



INTEQ



## INTEQ LOG SUITE

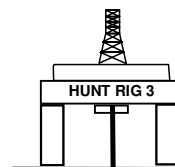
Formation Evaluation 1:200 Scale  
Drilling Data Plot 1:500 Scale

### ABBREVIATIONS

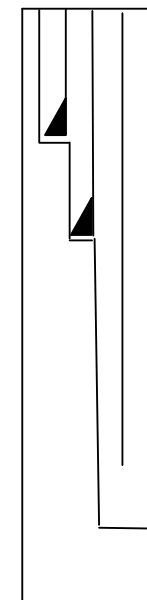
NB	New Bit	MD	Measured Depth
RR	Rerun Bit	GPM	Gallons per Min
CB	Core Bit	PP	Pump Pressure
WOB	Weight on Bit	MW	Mud Weight sg
RPM	Revs per Minute	FV	Funnel Viscosity
FLC	Flow Check	F	Filtrate - API
FCG	Flow Check Gas	FC	Filter Cake
PR	Poor Returns	PV	Plastic Viscosity
NR	No Returns	YP	Yield Point
BG	Background Gas	Sol	Solids %
WTG	Wiper Trip Gas	Sd	Sand %
TG	Trip Gas	Cl	Chlorides
POG	Pumps Off Gas	RM	Mud Resistivity
CG	Connection Gas	EMW	Eq. Mud weight
SWG	Swab Gas	TVD	True Vertical Depth

### LITHOLOGY SYMBOLS

Limestone Ls	Dolomite Dol	Marl Mrl	Argillaceous Limestone Arg Lst
Claystone Clyst	Siltstone Siltst	Sandstone Sst	Conglomerate Cgl
Coal C	Fossil Fragments FF	No Returns NR	Cement Cmt
Volcanics Volc	Glaucanite Glauc	Pyrite Pyr	Chert Cht



Ground Elevation: 200.0 m  
MDKB(AMSL)  
Rig Floor Elevation(AMSL) :  
204.0 m



Set 340mm (13-3/8") Casing at  
104.8 mMDKB

Set 244mm (9-5/8") Casing at  
338.0 mMDKB

Drilled 216mm (8-1/2") hole to  
1326.0 mMDKB

	Casing Seat		Wireline Logs
	Liner Hanger		Tripping Symbol
	Cored Interval		Sidewall Core
	Unrecovered		No Recovery
	Fluorescence		No Recovery
	Test Interval		No Recovery
	Mechanical Sidewall Core		No Recovery

Company Overseas Energy Holdings Ltd

Well Westwood-1

Permit SEL5-05

Region Tasmania (Australia)

Designation Exploration

Coordinates 41° 31' 9.3" S  
147° 2' 2.5" E

Drill floor elevation 4.0 m

Total Depth 1326.0 mMDRT

Contractor Hunt Energy

Rig Rig 3

Type Land Rig

LOG INTERVAL  
Depth 122.0 – 1326.0 mMDRT

Date 28 November 09 – 19 December 09  
Scale 1 : 200

Data Engineers John Lawrance, Aurelius Rayan,  
Dedi Permana, Shaharizad  
Shahadan

Loggers Amit Saxena, Rahul Gadhe



Company : Overseas Energy Holdings Ltd

Well : Westwood 1

Interval : -4.00 - 1341.15 meters

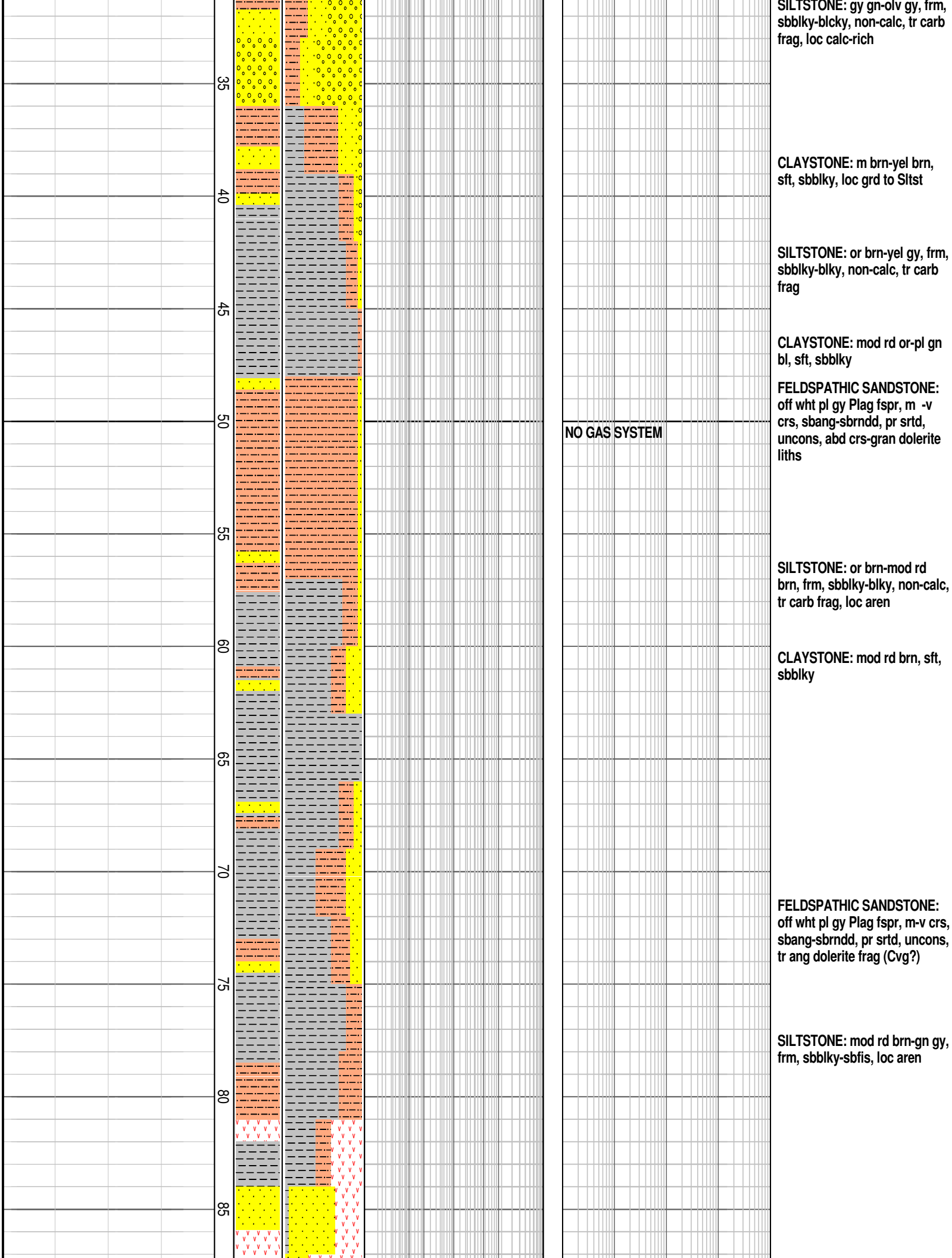
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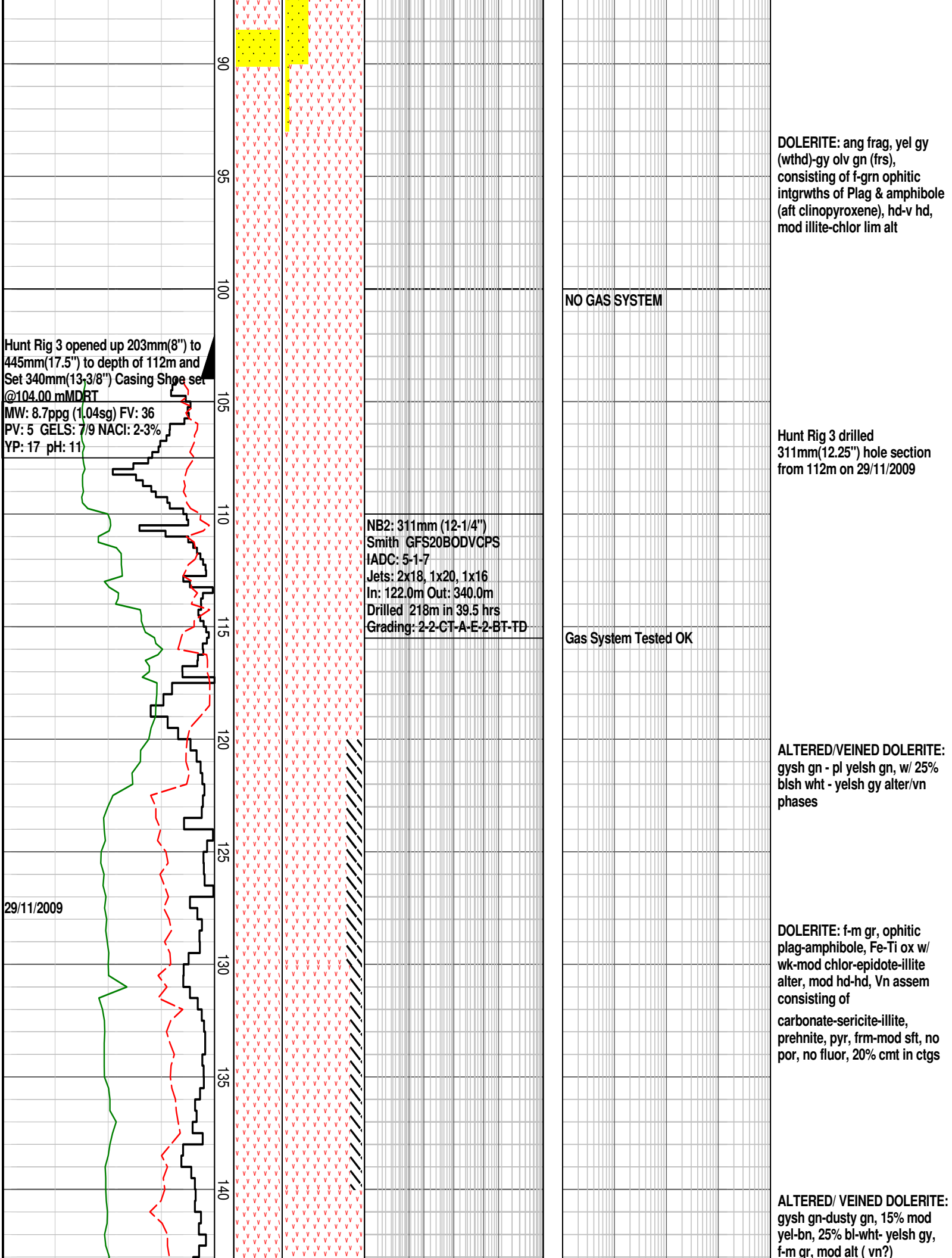


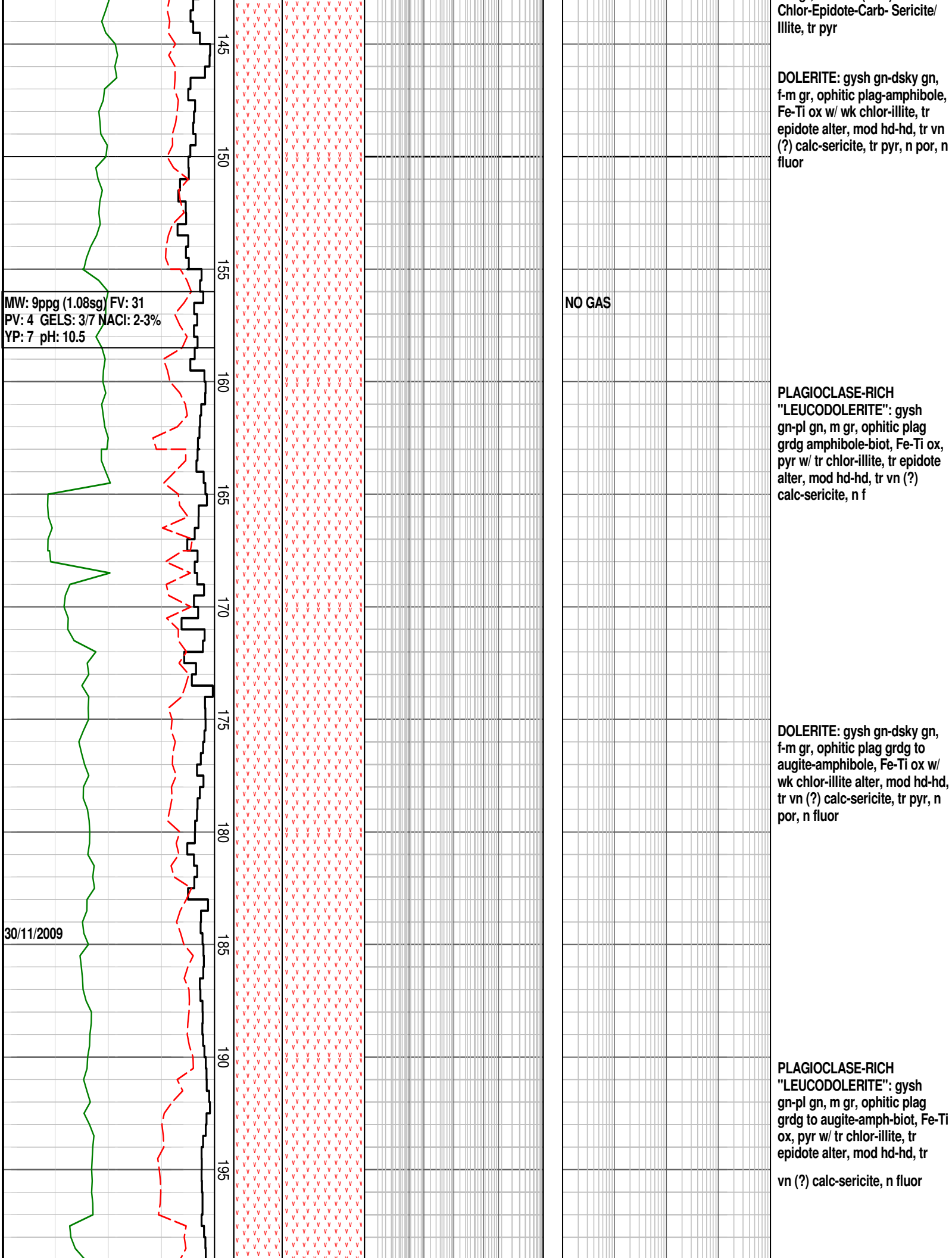
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## FORMATION EVALUATION LOG

ROP m/hr WOB klbf Surf RPM	CORE MD meters	INTERPRETED LITHOLOGY	LITHOLOGY %	TOTAL GAS & RESISTIVITY Total Gas	OIL FLUORESCENCE	CHROMATOGRAPH	REMARKS
						Methane ppm Ethane Propane iso-Butane n-Butane iso-Pentane n-Pentane ppm	
50 40 30 20 10	1200			0.1   1   10   100 %		100   1000   10000   100000 ppm	
Spaulding Rig drilled 203mm(8") pilot hole to 112m with Air							
	0						Spud Westwood-1 at 08.15 hrs on 20th Oct 2009 by Spaulding RC Rig
	5						CLAYSTONE: rd brn (hem) - yelsh brn, sft, sbblky, loc grd to Sltst
	10						SILTSTONE: or brn - yelsh-gy, frm, sbblky - blk, non-calc, tr carb frag
	15						SANDSTONE: clr qtz & off-wht pl gy plag fspr, f - med, sbang - sbrnd, mod srt, unconsol, tr sbrnd dolerite gran
	20						CONGLOMERATE: ang gy olv gn dolerite & ang pl gy gn qtz Cigs (clasts broken by RC hammer)
	25						SANDSTONE: clr-trnsl qtz & off-wht pl gy Plag fspr, v f-gran, sbang-sbrndd, pr srted, uncons
	30						







WOB: 2 - 34 kbf  
RPM: 29 - 94  
FLOW: 278 - 597 gpm  
SPP: 256 - 563 psi

NO GAS

SILTSTONE: mod yel,  
blky-sbfis, frm-mod hd

HORNFELS: yelsh gn-pl gn, vf,  
epidote-chlor alter sltst chilled  
dolerite

SANDSTONE: clr-trnsl-mlky  
wht qtz fspr, m-crs,  
sbang-sbrndd, mod-pr srtg,  
disagg w/ occ sil & carb-cmt  
agg, tr glauc, pr-mod inf por, n  
fluor

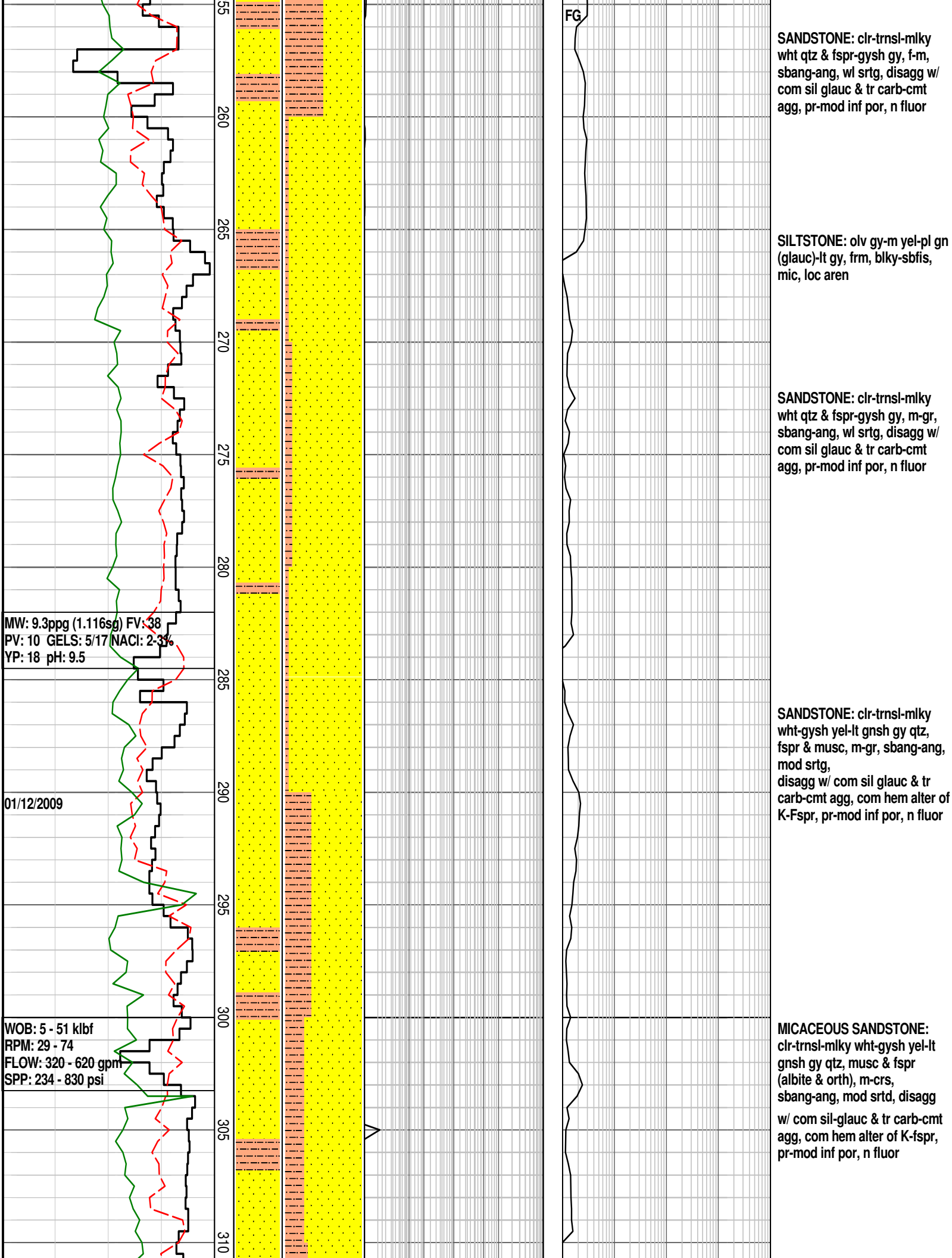
FG

DOLERITE: gysh gn-dsky gn,  
f-m gr, ophitic plag-amphibole,  
Fe-Ti ox w/ wk chlor-illite alter,  
mod hd-hd, tr vn (?)  
calc-sericite, tr pyr, n por, n  
fluor

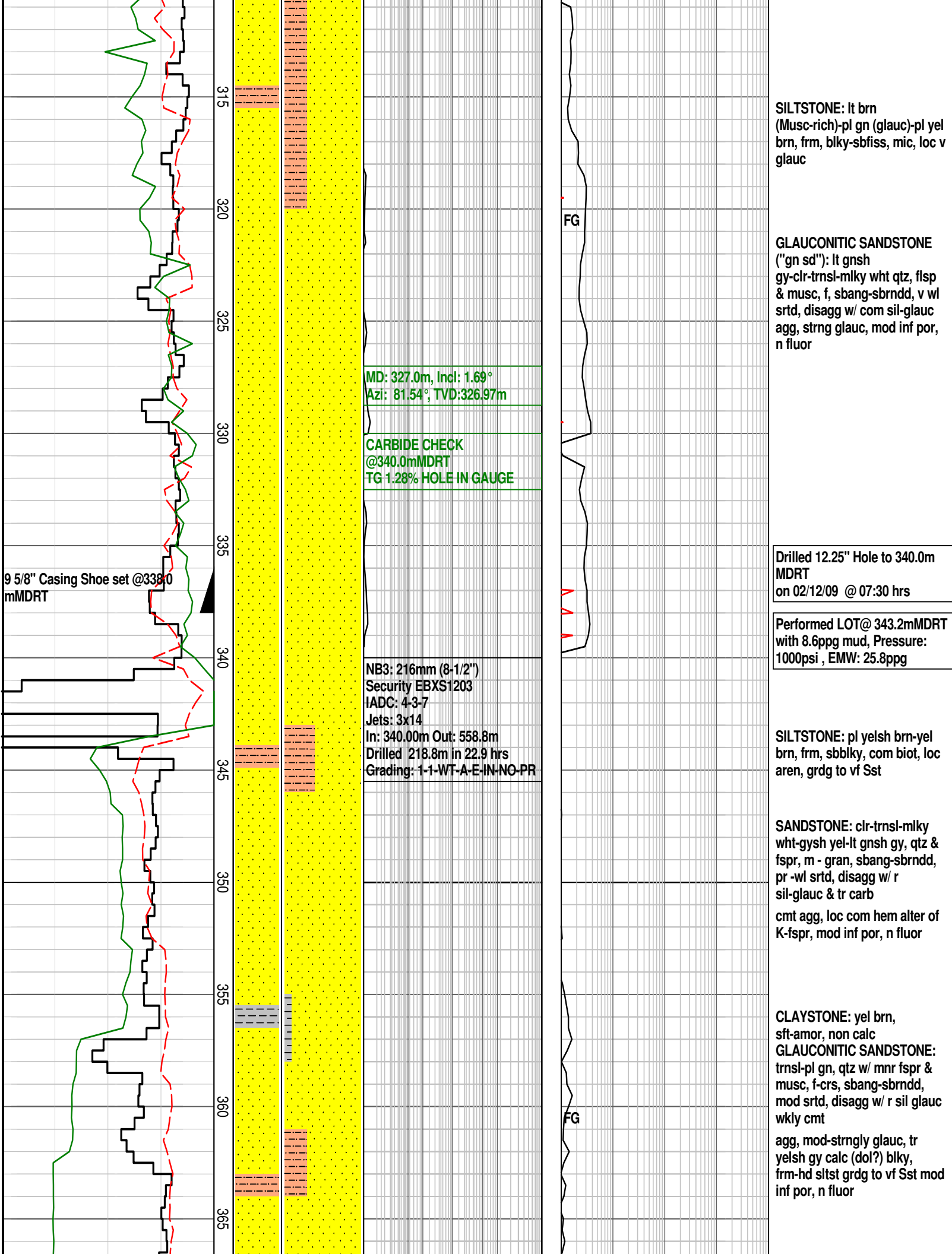
SILTSTONE: mod yel-pl yelsh  
brn-pl gn (glauc)- lt gy,  
blky-sbfiss, loc aren, carb frag,  
sft-frm

SANDSTONE: clr-trnsl-mlky  
wht qtz & fspr, f-crs,  
ang-sbrndd, pr srtg, disagg w/  
occ sil & tr carb-cmt agg, mn  
glauc, pr-mod inf por, no fluor

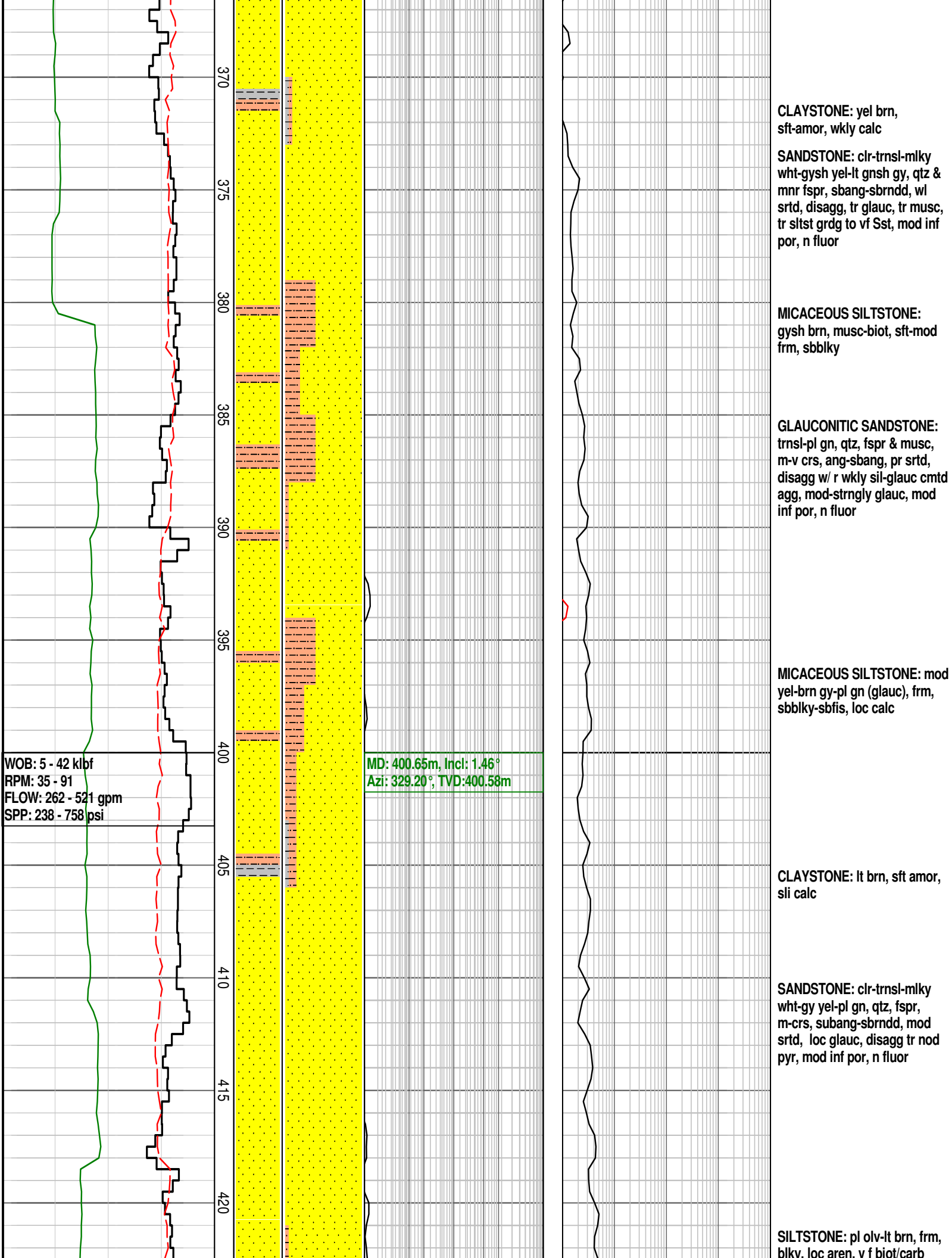
SILTSTONE: olv gy-m yel-pl gn  
(glauc)-lt gy, frm, blky-sbfis,  
mic, loc aren

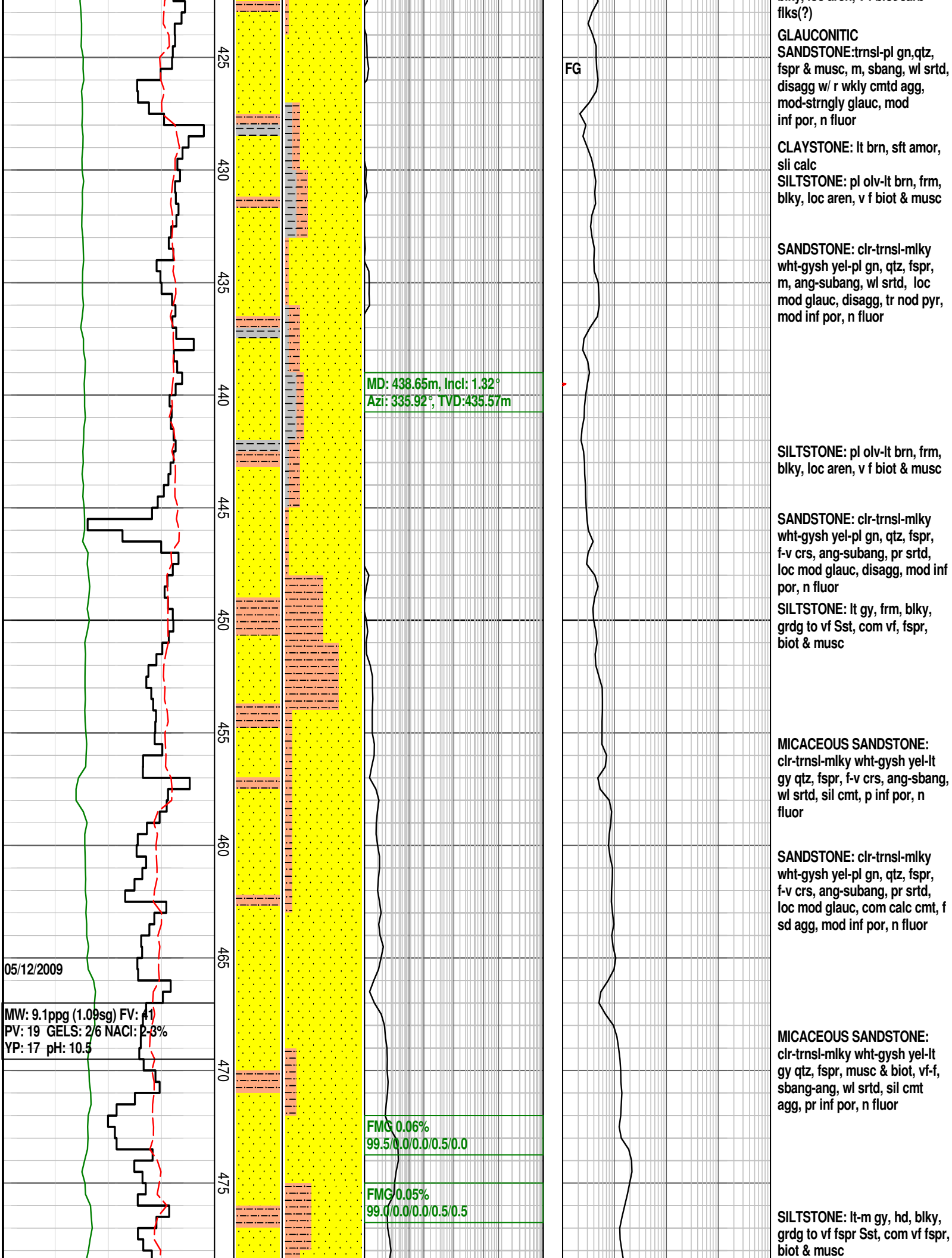


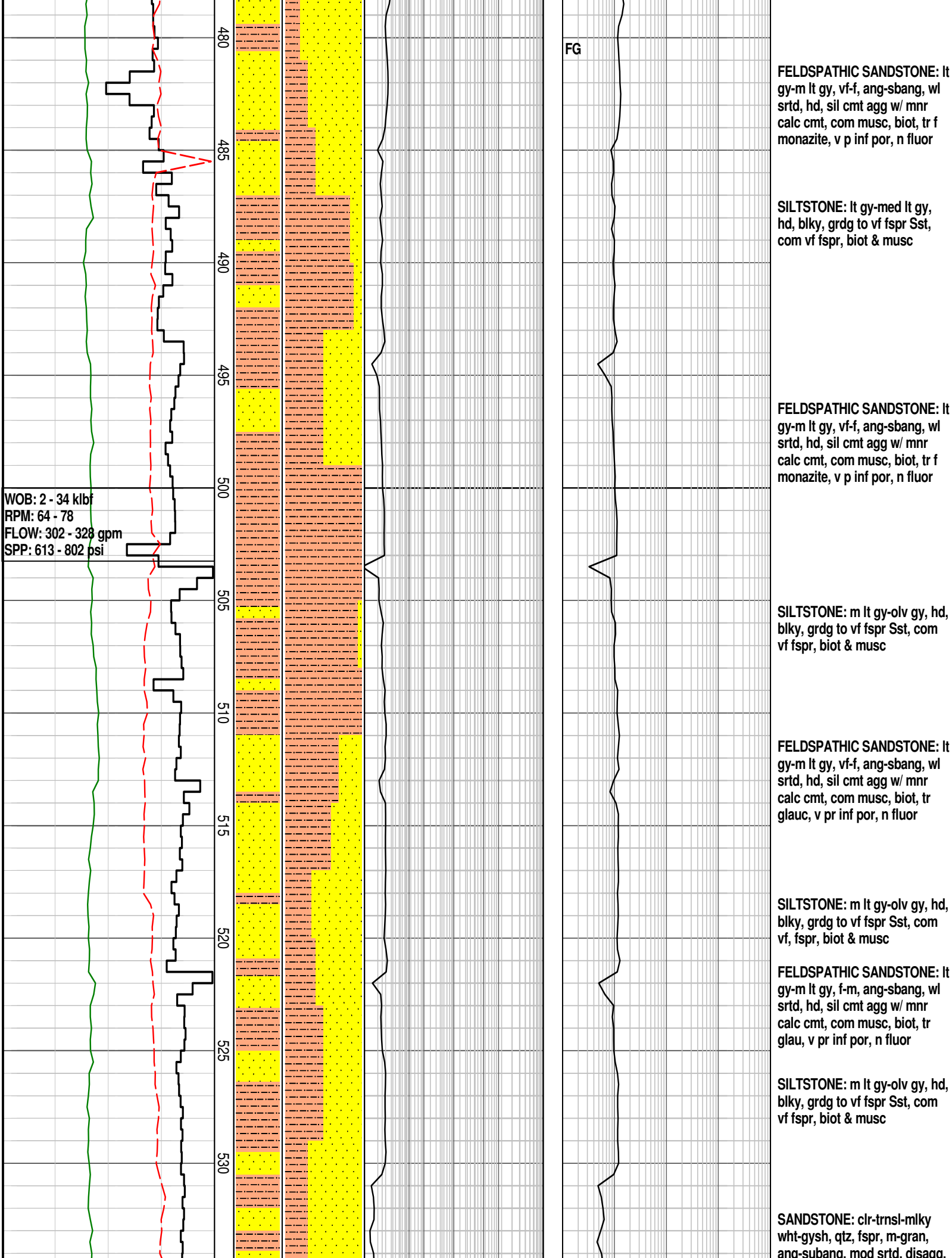


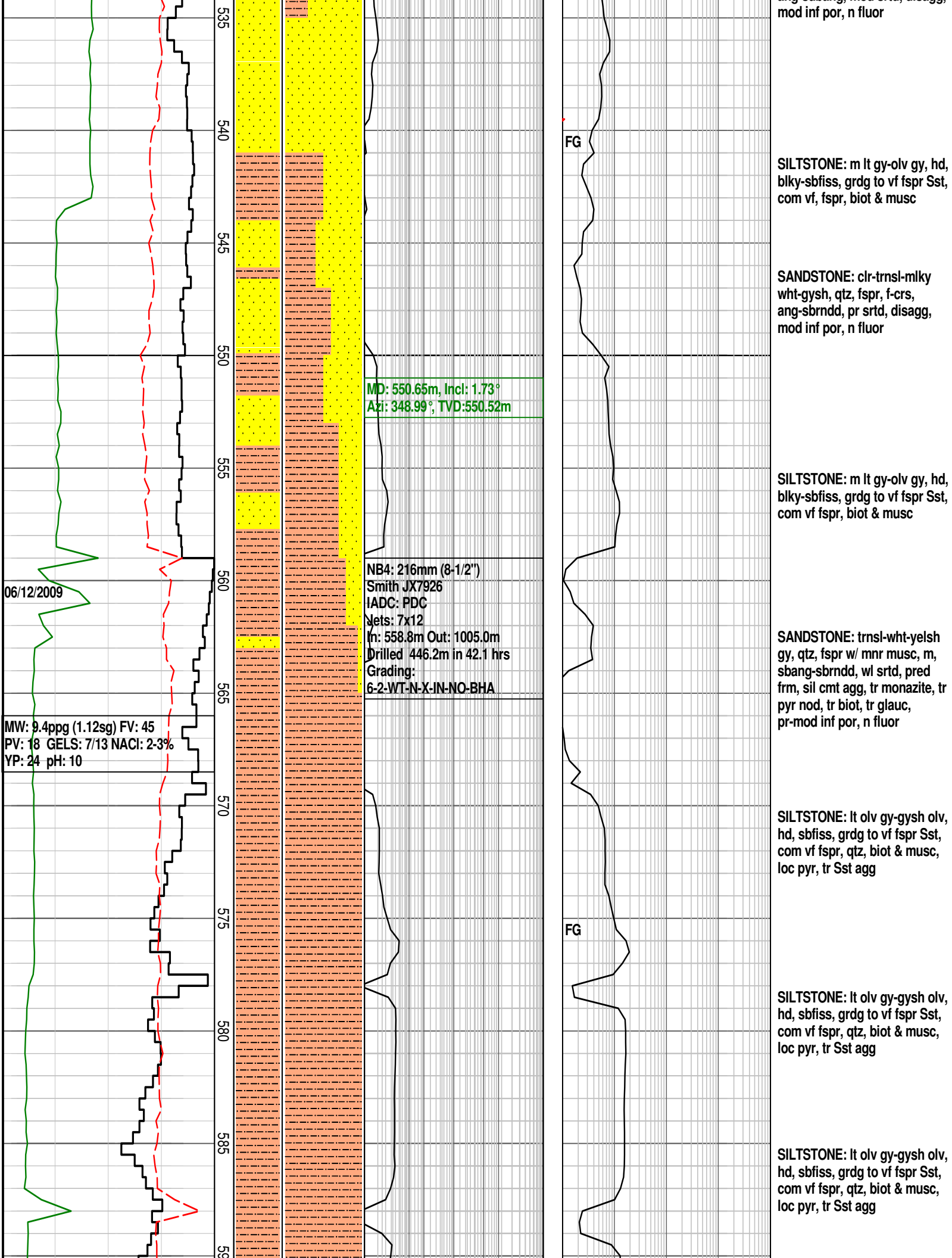




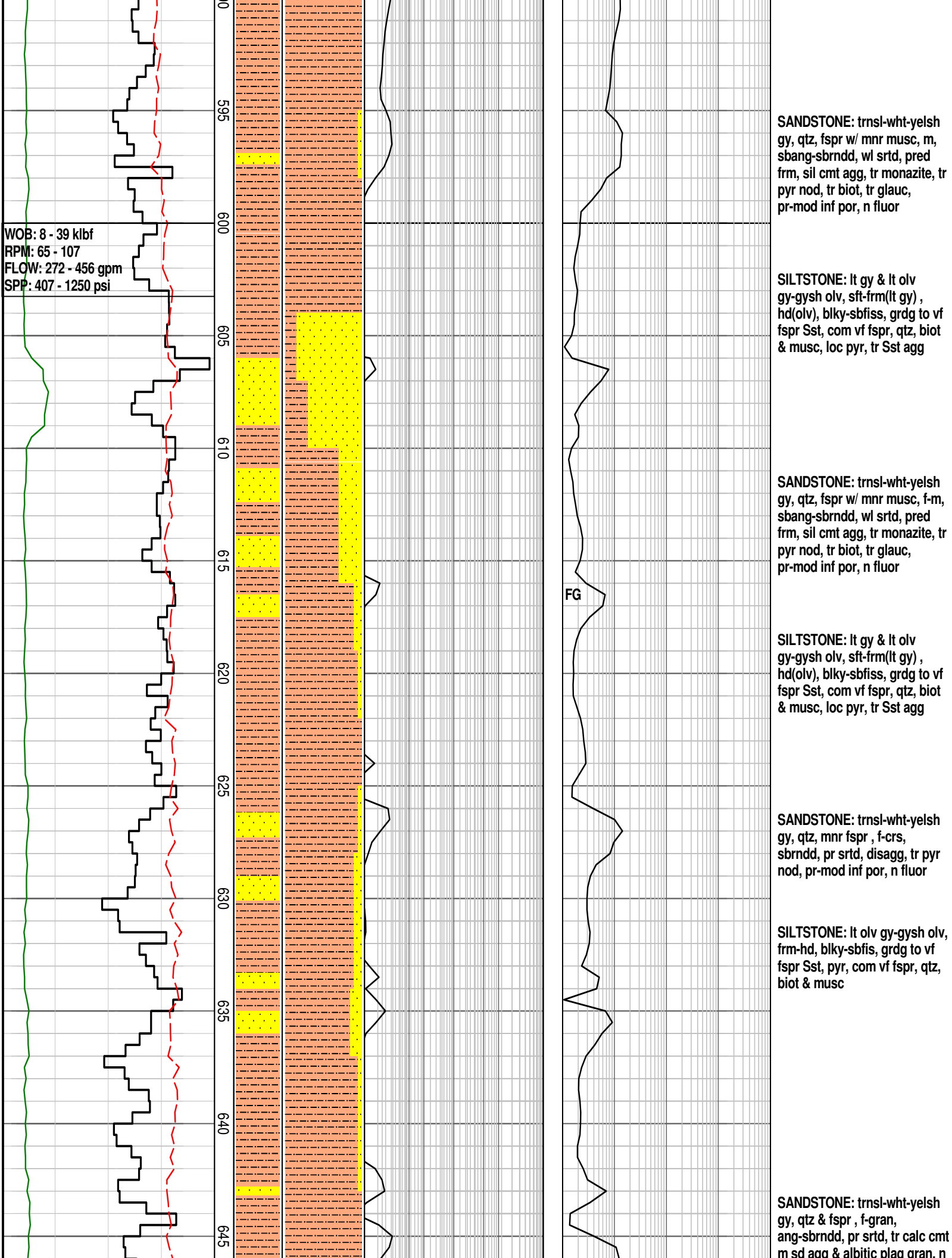


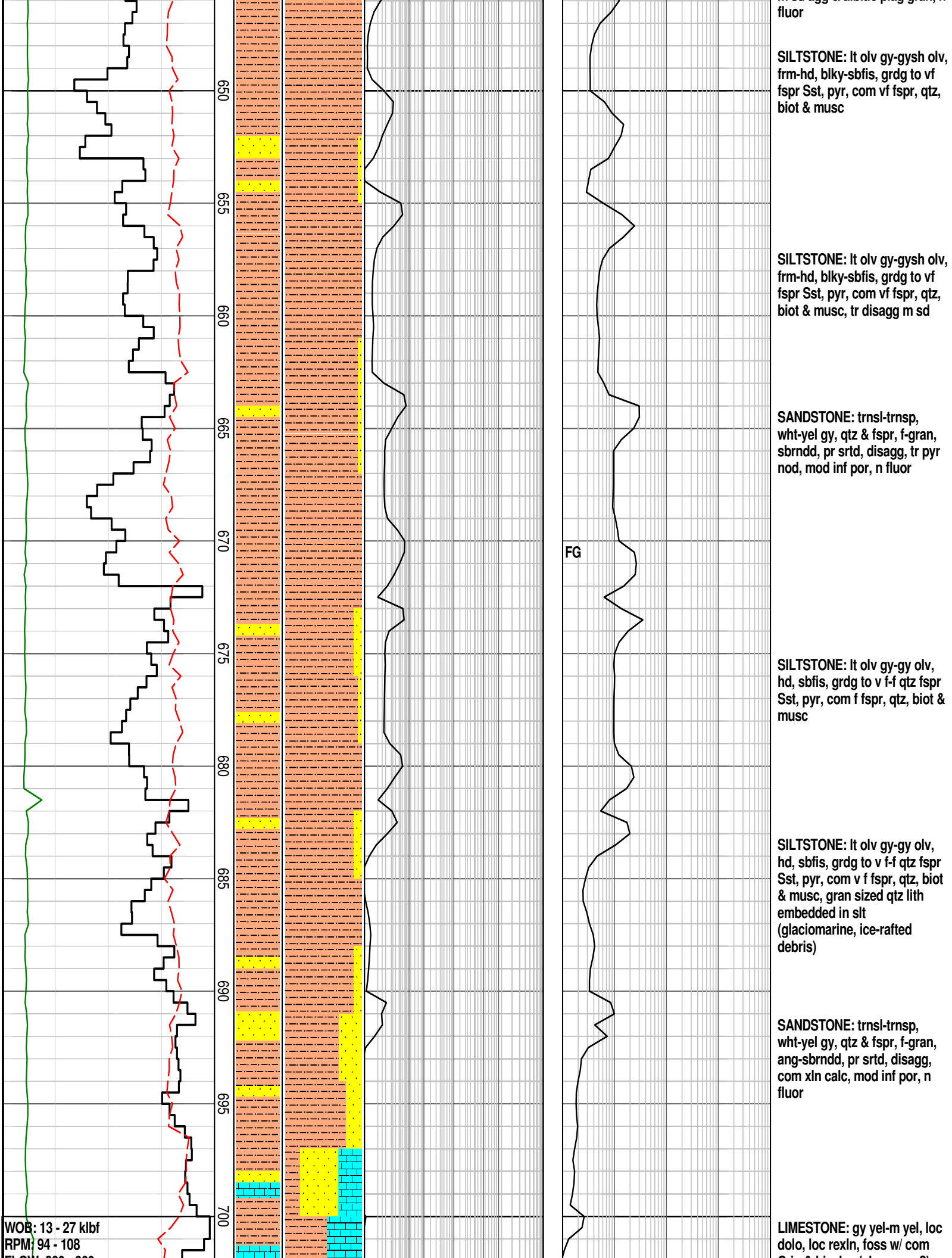






WOB: 8 - 39 klb  
RPM: 65 - 107  
FLOW: 272 - 456 gpm  
SPP: 407 - 1250 psi





WOB: 13 - 27 klbf  
RPM: 94 - 108  
FLUID: 200 - 200

fluor

SILTSTONE: lt olv gy-gysh olv, frm-hd, blk-y-sbfis, grdg to vf fspr Sst, pyr, com vf fspr, qtz, biot & musc

SILTSTONE: lt olv gy-gysh olv, frm-hd, blk-y-sbfis, grdg to vf fspr Sst, pyr, com vf fspr, qtz, biot & musc, tr disagg m sd

SANDSTONE: trns-l-trnsp, wht-yel gy, qtz & fspr, f-gran, sbrndd, pr srted, disagg, tr pyr nod, mod inf por, n fluor

FG

SILTSTONE: lt olv gy-gy olv, hd, sbfis, grdg to v f-f qtz fspr Sst, pyr, com f fspr, qtz, biot & musc

SILTSTONE: lt olv gy-gy olv, hd, sbfis, grdg to v f-f qtz fspr Sst, pyr, com v f fspr, qtz, biot & musc, gran sized qtz lith embedded in slt (glaciomarine, ice-rafted debris)

SANDSTONE: trns-l-trnsp, wht-yel gy, qtz & fspr, f-gran, ang-sbrndd, pr srted, disagg, com xln calc, mod inf por, n fluor

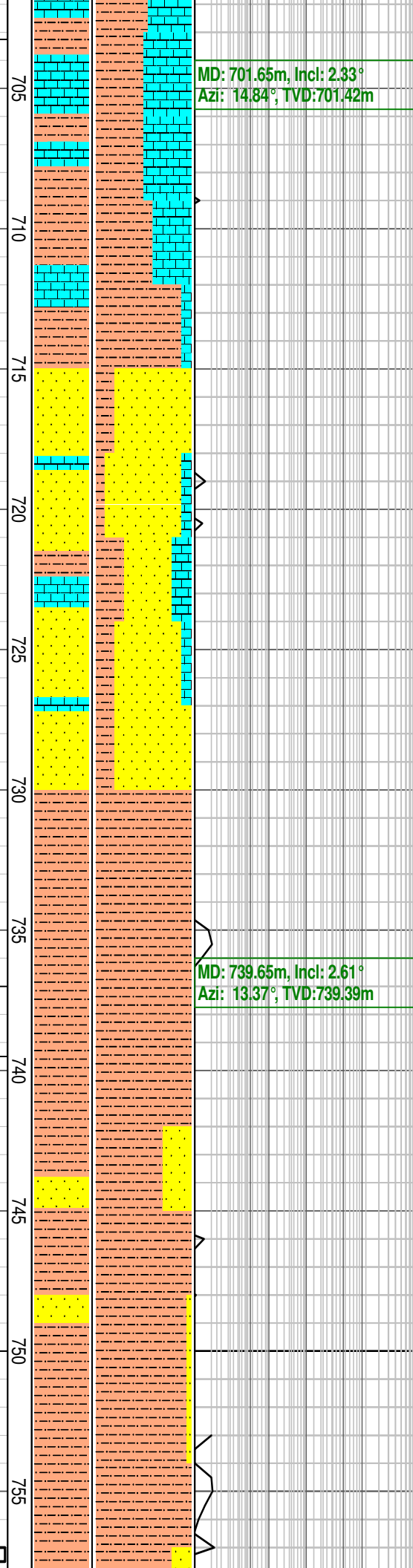
LIMESTONE: gy yel-m yel, loc dolo, loc rexln, foss w/ com



FLOW: 280 - 369 gpm  
SPP: 351 - 620 psi

MW: 9.2ppg (1.02sg) FV: 45  
PV: 13 GELS: 6/14 NACL: 2.3%  
YP: 18 pH: 10

07/12/2009



Crin & bivalve (clamus sp?) frag

SILTSTONE: m lt gy-gysh olv gy, frm-hd, blkysbfs, grdg to v f Sst, loc calc, r embedded (ice-rafted ?) gran size meta & granitoid lith

CALCAREOUS SANDSTONE: gysh yel-yelsh gy-lt olv gy, qtz, calc & r fspr, f-crs, ang-sbang, wl-mod srted, frm-hd, carb cmt agg sd, pr inf por, n fluor

LIMESTONE: gy yel-med yel, loc dolo, loc dol, loc rexln, foss with com Crin & bryozoan & bivalve (clamus sp?) frag

CALCAREOUS SANDSTONE: gysh yel-yelsh gy-lt olv gy, qtz, calc & r fspr, f-crs, ang-sbang, wl-mod srted, frm-hd, carb cmt agg w/ mntr disagg sd, pr inf por, n fluor

SILTSTONE: lt olv gy-dsky yel, frm-hd, blkysbfs, mod calc

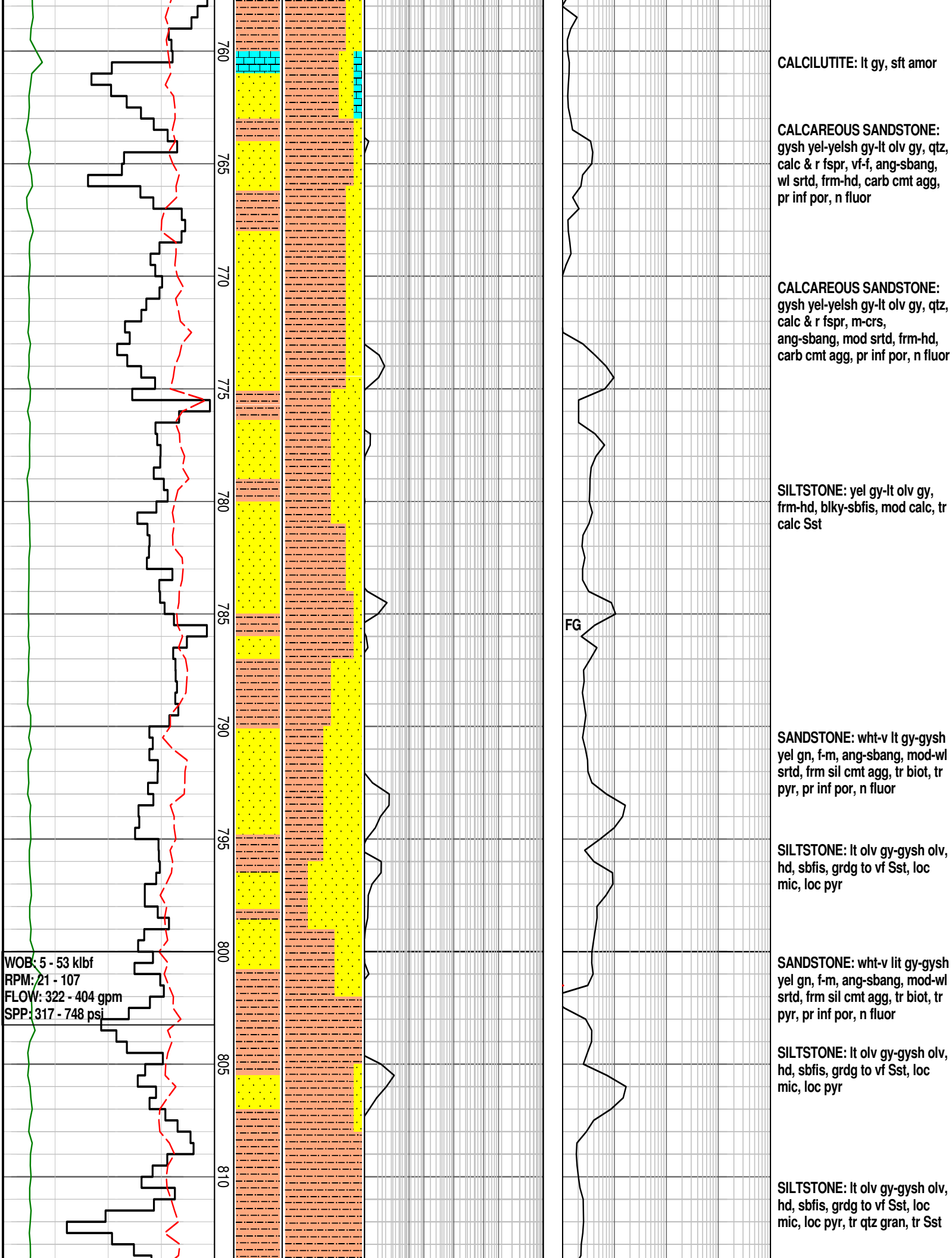
FG

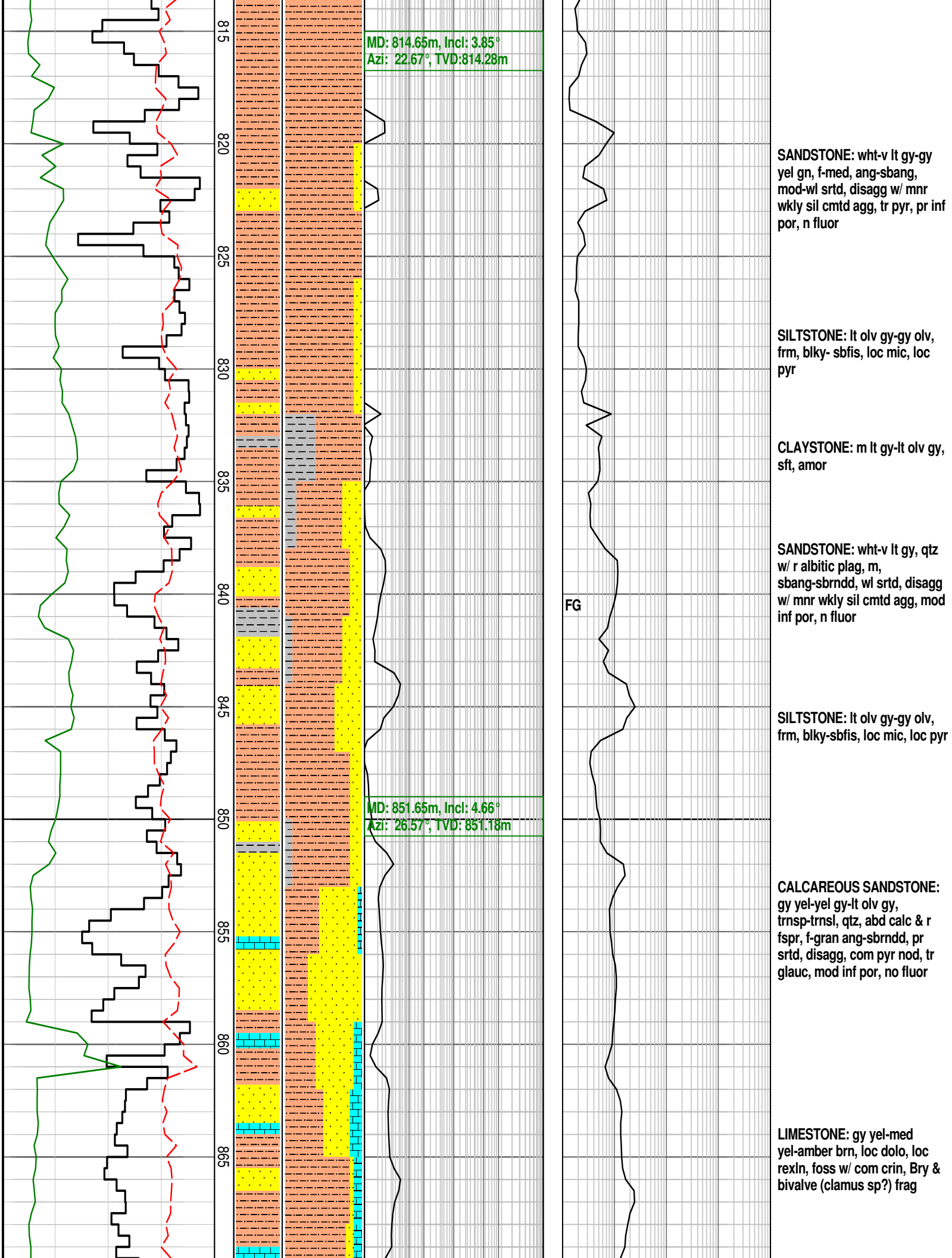
SILTSTONE: lt olv gy-dsky yel, frm-hd, blkysbfs, mod calc

CALCAREOUS SANDSTONE: gysh yel-yelsh gy-lt olv gy, qtz, calc & r fspr, f-m, ang-sbang, mod srted, frm-hd, carb cmt agg, pr inf por, n fluor

SILTSTONE: lt olv gy-dsky yel, frm-hd, blkysbfs, mod calc, tr calc Sst







MD: 814.65m, Incl: 3.85°  
Azi: 22.67°, TVD: 814.28m

SANDSTONE: wht-v lt gy-gy  
yel gn, f-med, ang-sbang,  
mod-wl srtd, disagg w/ mnw  
wkly sil cmtd agg, tr pyr, pr inf  
por, n fluor

SILTSTONE: lt olv gy-gy olv,  
frm, blk- sbfis, loc mic, loc  
pyr

CLAYSTONE: m lt gy-lt olv gy,  
sft, amor

SANDSTONE: wht-v lt gy, qtz  
w/ r albitic plag, m,  
sbang-sbrndd, wl srtd, disagg  
w/ mnw wkly sil cmtd agg, mod  
inf por, n fluor

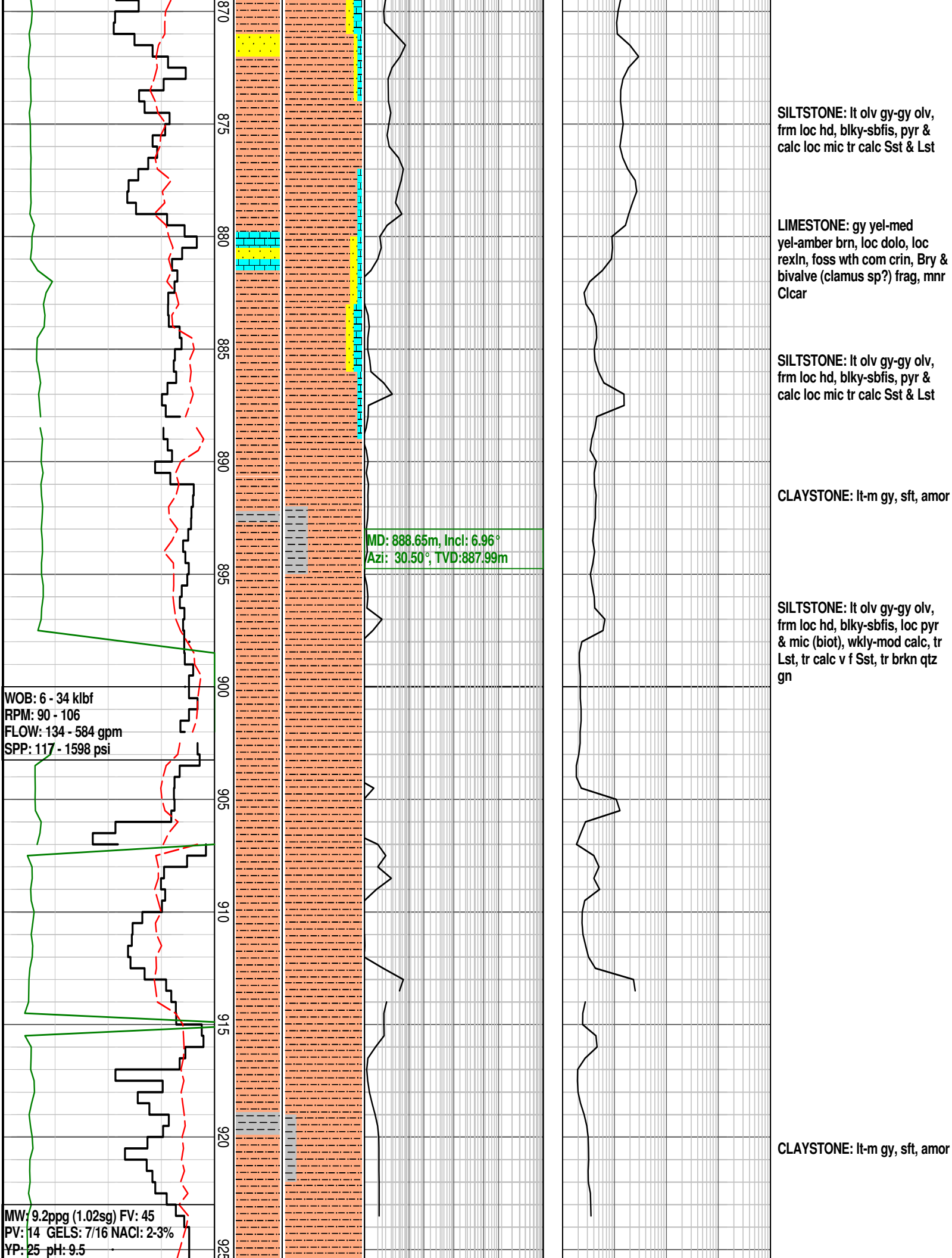
FG

SILTSTONE: lt olv gy-gy olv,  
frm, blk-sbfis, loc mic, loc pyr

MD: 851.65m, Incl: 4.66°  
Azi: 26.57°, TVD: 851.18m

CALCAREOUS SANDSTONE:  
gy yel-yel gy-lt olv gy,  
trnspr-trnsf, qtz, abd calc & r  
fspr, f-gran ang-sbrndd, pr  
srtd, disagg, com pyr nod, tr  
glauc, mod inf por, no fluor

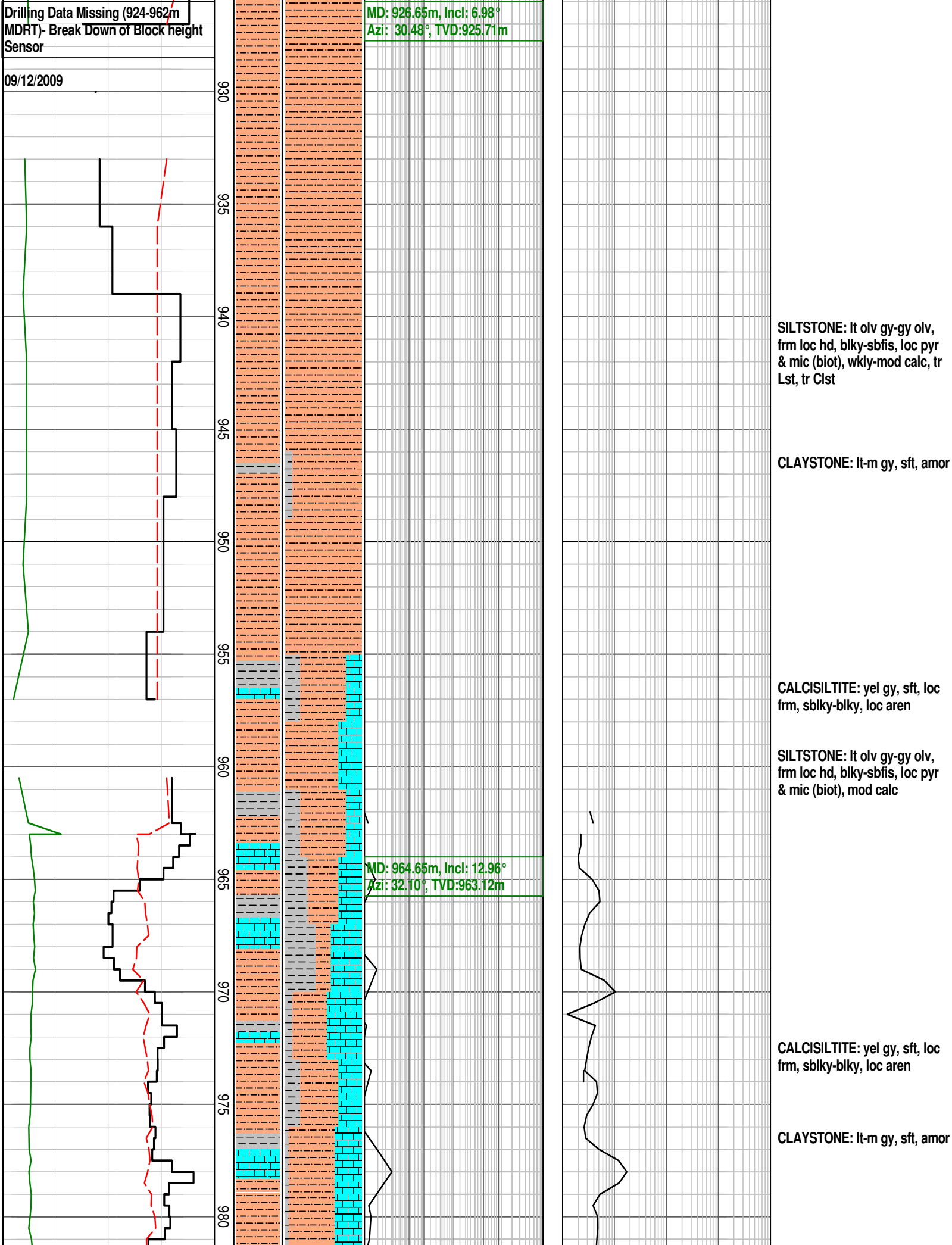
LIMESTONE: gy yel-med  
yel-amber brn, loc dolo, loc  
rexln, foss w/ com crin, Bry &  
bivalve (clamus sp?) frag



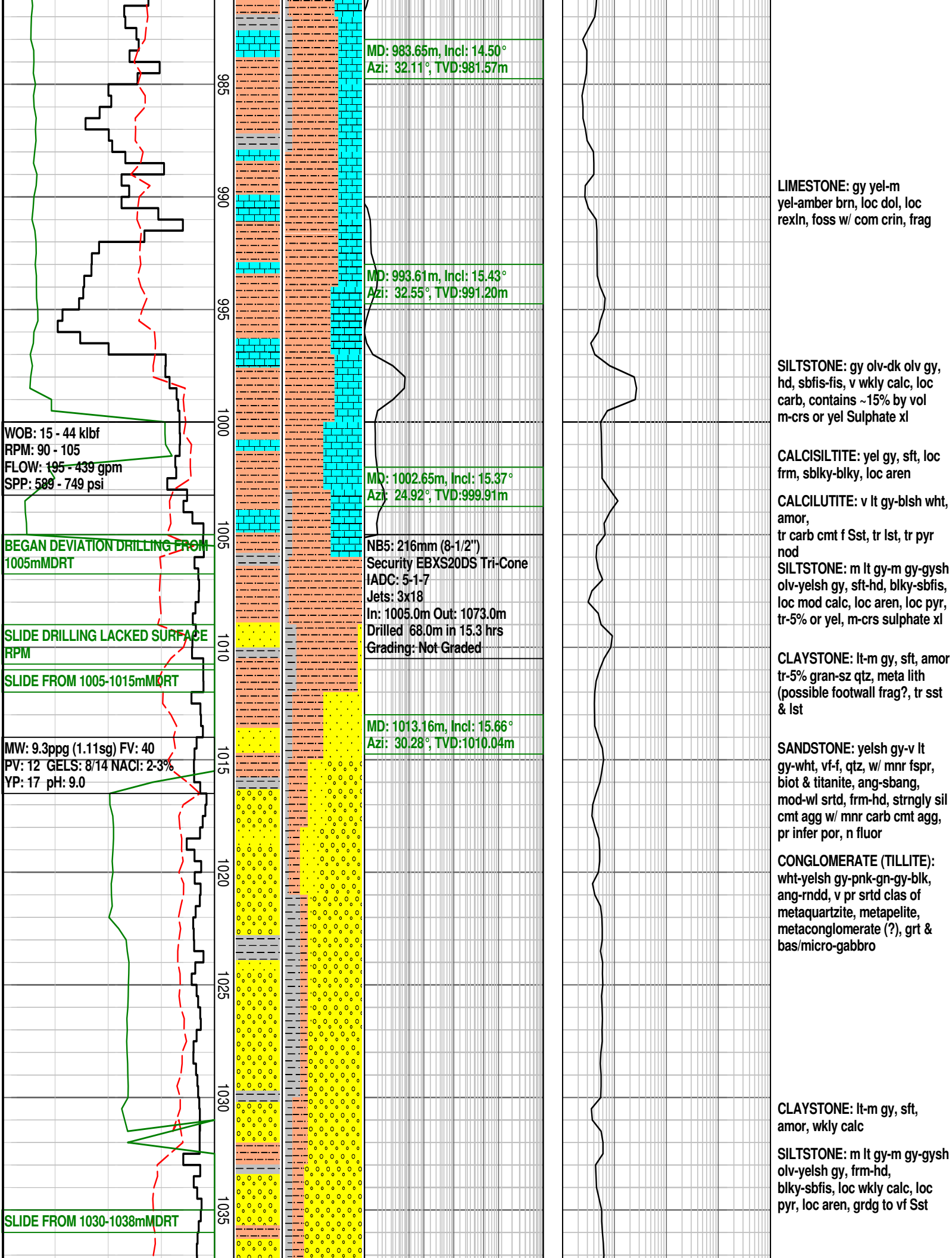
Drilling Data Missing (924-962m  
MDRT)- Break Down of Block height  
Sensor

09/12/2009

MD: 926.65m, Incl: 6.98°  
Azi: 30.48°, TVD:925.71m



MD: 964.65m, Incl: 12.96°  
Azi: 32.10°, TVD:963.12m



MD: 983.65m, Incl: 14.50°  
Azi: 32.11°, TVD:981.57m

MD: 993.61m, Incl: 15.43°  
Azi: 32.55°, TVD:991.20m

MD: 1002.65m, Incl: 15.37°  
Azi: 24.92°, TVD:999.91m

NB5: 216mm (8-1/2")  
Security EBXS20DS Tri-Cone  
IADC: 5-1-7  
Jets: 3x18  
In: 1005.0m Out: 1073.0m  
Drilled 68.0m in 15.3 hrs  
Grading: Not Graded

MD: 1013.16m, Incl: 15.66°  
Azi: 30.28°, TVD:1010.04m

WOB: 15 - 44 kbf  
RPM: 90 - 105  
FLOW: 195 - 439 gpm  
SPP: 589 - 749 psi

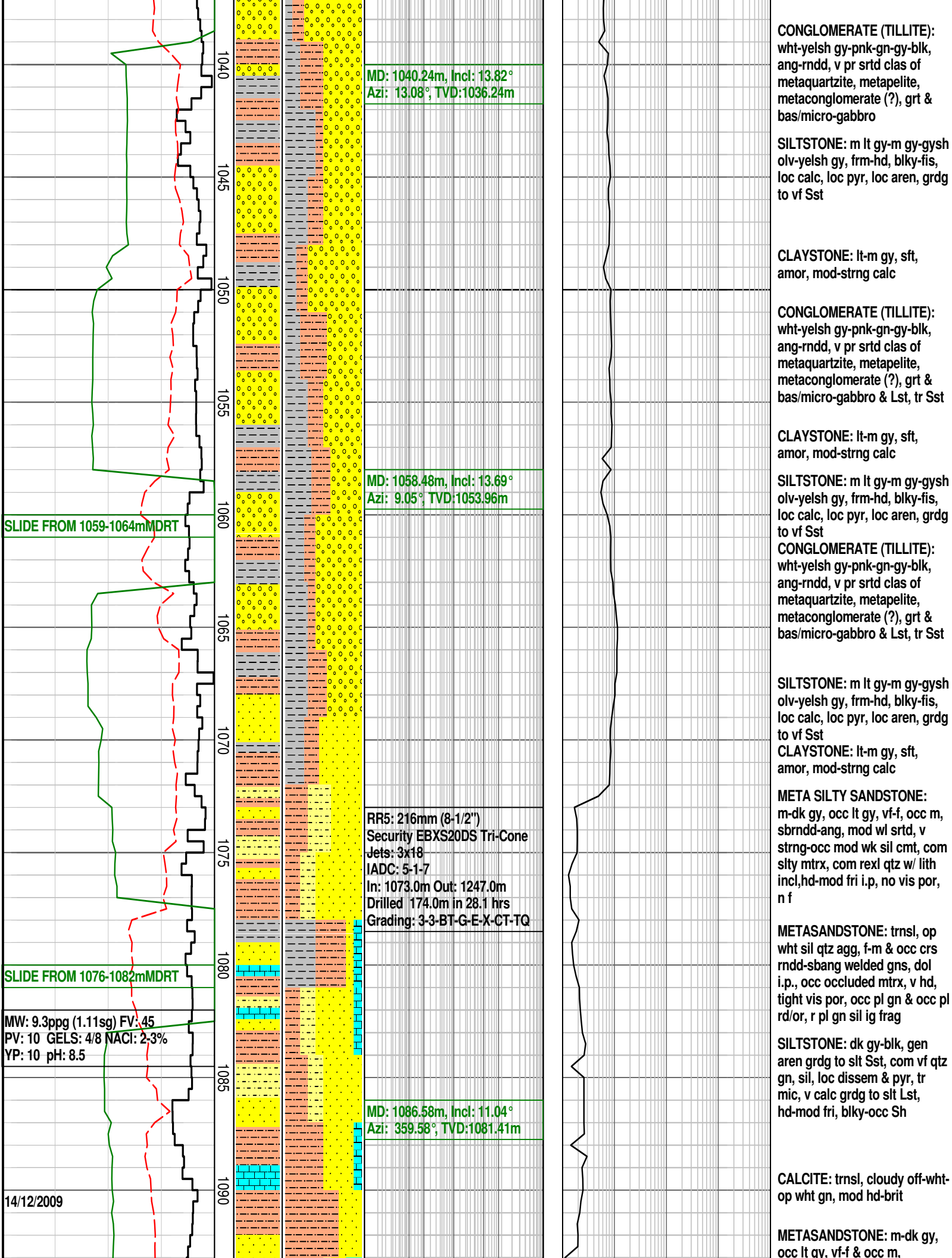
BEGAN DEVIATION DRILLING FROM  
1005mMDRT

SLIDE DRILLING LACKED SURFACE  
RPM

SLIDE FROM 1005-1015mMDRT

MW: 9.3ppg (1.11sg) FV: 40  
PV: 12 GELS: 8/14 NACI: 2-3%  
YP: 17 pH: 9.0

SLIDE FROM 1030-1038mMDRT





WOB: 8 - 45 klb  
RPM: 24 - 236  
FLOW: 215 - 400 gpm  
SPP: 691 - 1347 psi

SLIDE FROM 1105-1110mMDRT

SLIDE FROM 1132-1140mMDRT

1095  
1100  
1105  
1110  
1115  
1120  
1125  
1130  
1135  
1140  
1145

MD: 1116.41m, Incl: 9.18°  
Azi: 347.14°, TVD:1110.77m

MD: 1125.93m, Incl: 8.90°  
Azi: 331.96°, TVD:1120.17m

MD: 1144.56m, Incl: 8.29°  
Azi: 327.53°, TVD:1138.60m

sbrndd-ang, mod wl srted, v  
strng-occ mod wk sil cmt, loc  
strng pyr cmt, mnr-occ com  
silty mtrx grdg-meta slt  
Sst(psammite), comrexl  
  
qtz w/ lith incl, tr mic, tr garnet,  
hd-mod fri i.p., n vis por, n  
fluor

**CALCAREOUS SILTSTONE:**  
m-lt gy, f aren, com f-m qtz  
gns, loc clas of dk sltst, occ  
pbl frag, mod strng calc cmt,  
gen mod fri

**LIMESTONE:** mott-pchy m-lt  
gy, occ off wht, slt, mod hd-hd,  
blky

**SILTSTONE/SHALE:** dk gy,  
phyl i/p, occ vf qtz gns, tr  
micmic, tr dissem pyr, plty-tab  
ctgs, brit-frm, sbfis-sbblky

**SANDSTONE:** f-m, mod wl  
srted, sbrndd-sbang,  
disagg-occ strng sil cmt, calc  
i/p, occ slt mtrx, pr inf por, no  
fluor

**SILTY SANDSTONE:** m-dk gy,  
f-vf grdg to aren Sltst, occ m,  
sbrndd-sbang, mod wl srted,  
wk-mod strng calc cmt, com  
silty mtrx, tr micmic, mod fri, pr  
vis por, n fluor

**SILTSTONE:** shl, dk gy, phyl  
i/p, occ vf qtz gns, tr micmic,  
tr dissem pyr, plty- tab ctgs,  
bri- frm, sbfis- sbblky

**SANDSTONE:** f-m, mod wl  
srted, sbrndd-sbang,  
disagg-occl strng sil cmt, calc  
i/p, occ slty mtrx, pr inf por, n  
fluor

**METASANDSTONE:** (20%)  
gy/trnsl qtz w/ mnr blk incl, vf-f  
grdg to aren metasltst,  
sbrndd-sbang, wl-srted, strng  
sil & dol cmt, mnr

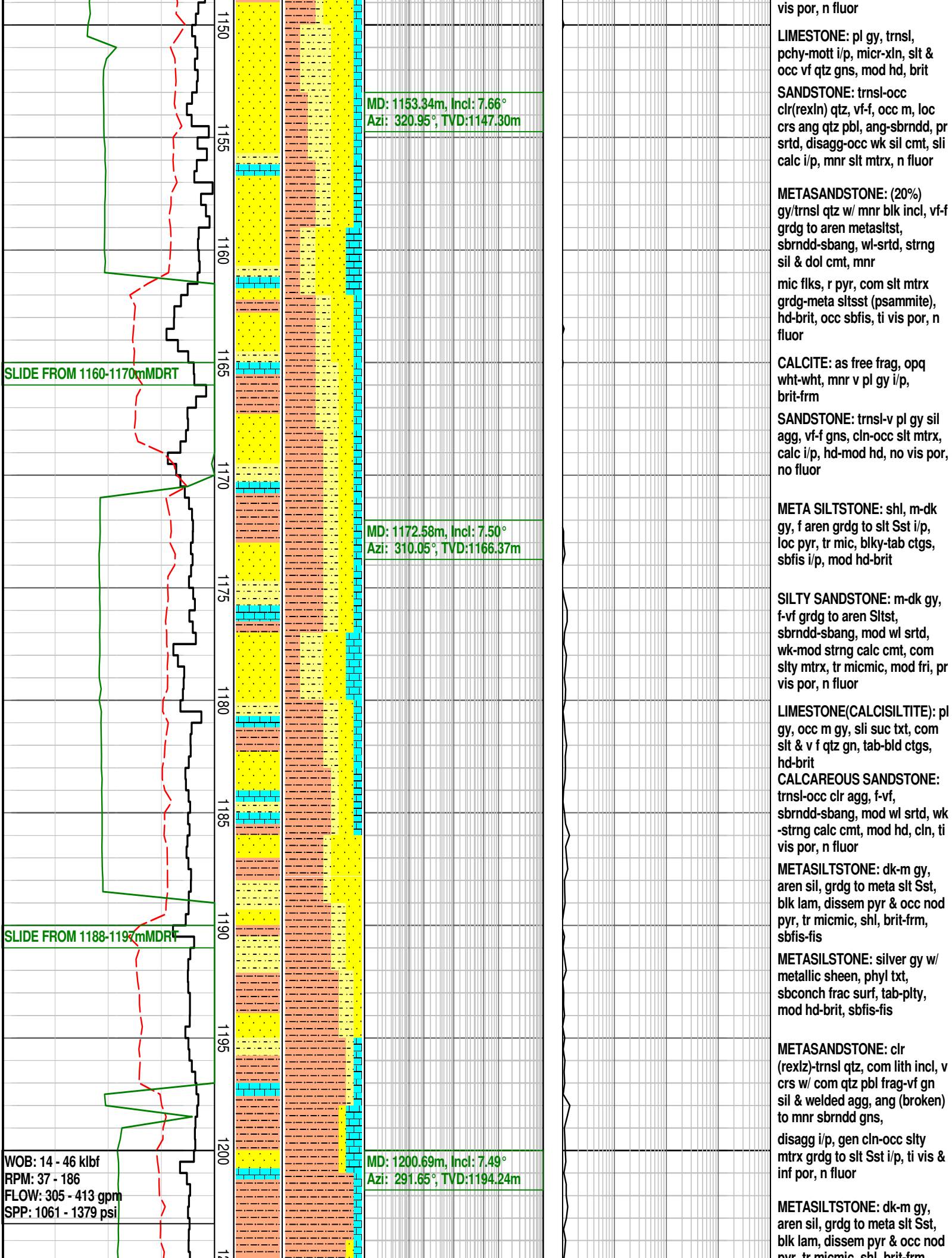
mic flks, r pyr, com slt mtrx  
grdg-meta sltsst (psammite),  
hd-brit, occ sbfis, ti vis por, no  
fluor

**METASILTSTONE:** blk-dk gy,  
aren sil i/p, tr micmic, tr  
dissem pyr, sh i/p

**SANDSTONE:** trnsl-occ  
clr(rexln) qtz, vf-f, occ m, loc  
crs ang qtz pbl, ang-sbrndd, pr  
srted, disagg-occ wk sil cmt, sli  
calc i/p, mnr slt mtrx, n fluor

**SILTY SANDSTONE:** m-dk gy,  
f-vf grdg to aren Sltst,  
sbrndd-sbang, mod wl srted,  
wk-mod strng calc cmt, com  
silty mtrx, tr micmic, mod fri, pr





15/12/2009

SLIDE FROM 1217-1225mMDRT

SLIDE FROM 1245-1254mMDRT

1205  
1210  
1215  
1220  
1225  
1230  
1235  
1240  
1245  
1250  
1255  
1260

MD: 1229.46m, Incl: 8.27°  
Azi: 273.90°, TVD:1222.74m

NB6: 216mm (8-1/2")  
Reed R304PDH Tri-Cone  
IADC: 5-3-7  
Jets: 3x18  
In: 1247.0m Out: 1326.0m  
Drilled 79.0m in 12.7 hrs  
Grading: 3-3-CT-G-E-X-BT-PR

MD: 1257.50m, Incl: 10.31°  
Azi: 267.33°, TVD:1250.42m

pyr, tr micritic, sh, brt-m, sbfis-fos,

LIMESTONE(CALCISILTITE): pl  
gy, occ m gy, sli suc txt, com  
slt & v f qtz gn, tab-bld ctgs,  
hd-brit

METASANDSTONE: clr  
(rexlz)-trnsi qtz, com lith incl, v  
crs w/ com qtz pbl frag-vf gn  
sil & welded agg, ang (broken)  
to mn r sbrndd gns,  
disagg i/p, gen cln-occ slty  
mtr grdg to slt Sst i/p, ti vis &  
inf por, n fluor

METASANDSTONE/  
CONGLOMERATE?: trnsi-op  
wht pbl shards, occ clr rexlz  
qtz w/ occ lith & pl gn incl  
(chlor?), ang broken frag, ti inf  
por, n fluor

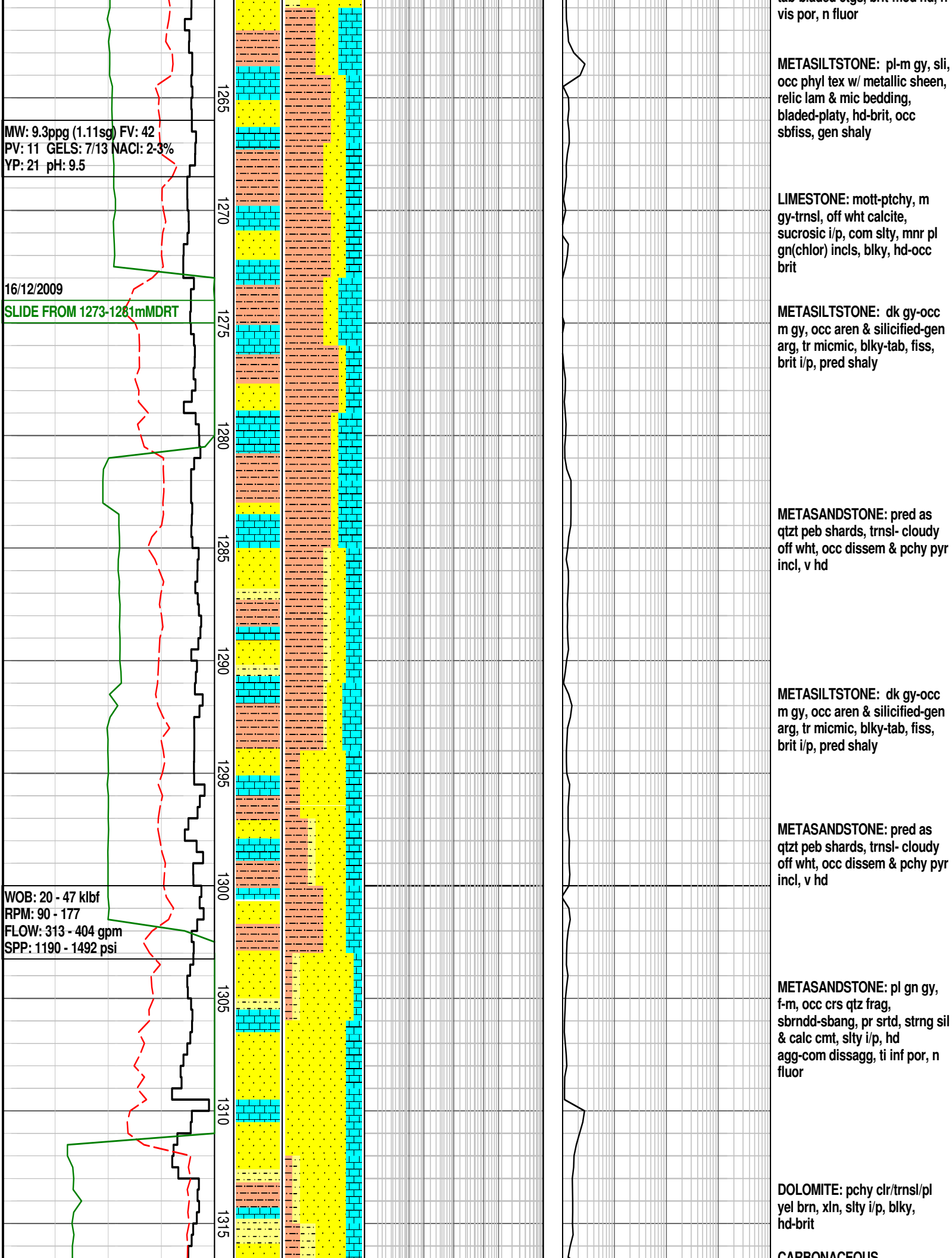
META SANDSTONE: v pl gn,  
vf-v crs, gen f-m,  
sbrndd-sbsng, fros gn surf,  
mod wl srtd, diagg-strng sil  
cmt, calc i/p, ti inf por, n fluor  
METASILSTONE: silver gy w/  
metallic sheen, phyl tex,  
sbconch frac surf, tab-pty,  
mod hd-brit, sbfis-fis

META SILTY SANDSTONE:  
mott m-lt gy, trnsi, sil, vf-f,  
sbrndd qtz gn w/ com slt mtrx,  
mn r lith, tr Coal?, occ pyr, mod  
hd-hd, ti por, n fluor

LIMESTONE(CALCISILTITE): pl  
gy, occ m gy, sli suc txt, com  
slt & v f qtz gn, tab-bld ctgs,  
hd-brit

META SANDSTONE: trnsi -mn r  
clr, f-crs, welded cl agg-com  
qtzt pbl shards, gen hd, ti por,  
n fluor

META SILTY SANDSTONE:  
pchy pl-m gy gn/trnsi, vf-f relic  
welded gns, occluded mtrx &  
slty lam i/p, tr pyr, gen  
tab-bladed ctgs, brit-mod hd, n





FORMATION EVALUATION LOG						
ROP m/hr WOB klbf Surf RPM	CORE MD meters 1:200	INTERPRETED LITHOLOGY	LITHOLOGY %	TOTAL GAS & RESISTIVITY Total Gas	CHROMATOGRAPH	REMARKS
					Methane ppm Ethane Propane iso-Butane n-Butane iso-Pentane n-Pentane ppm	
				0.1   1   10   100 %	100   1000   10000   100000 ppm	