

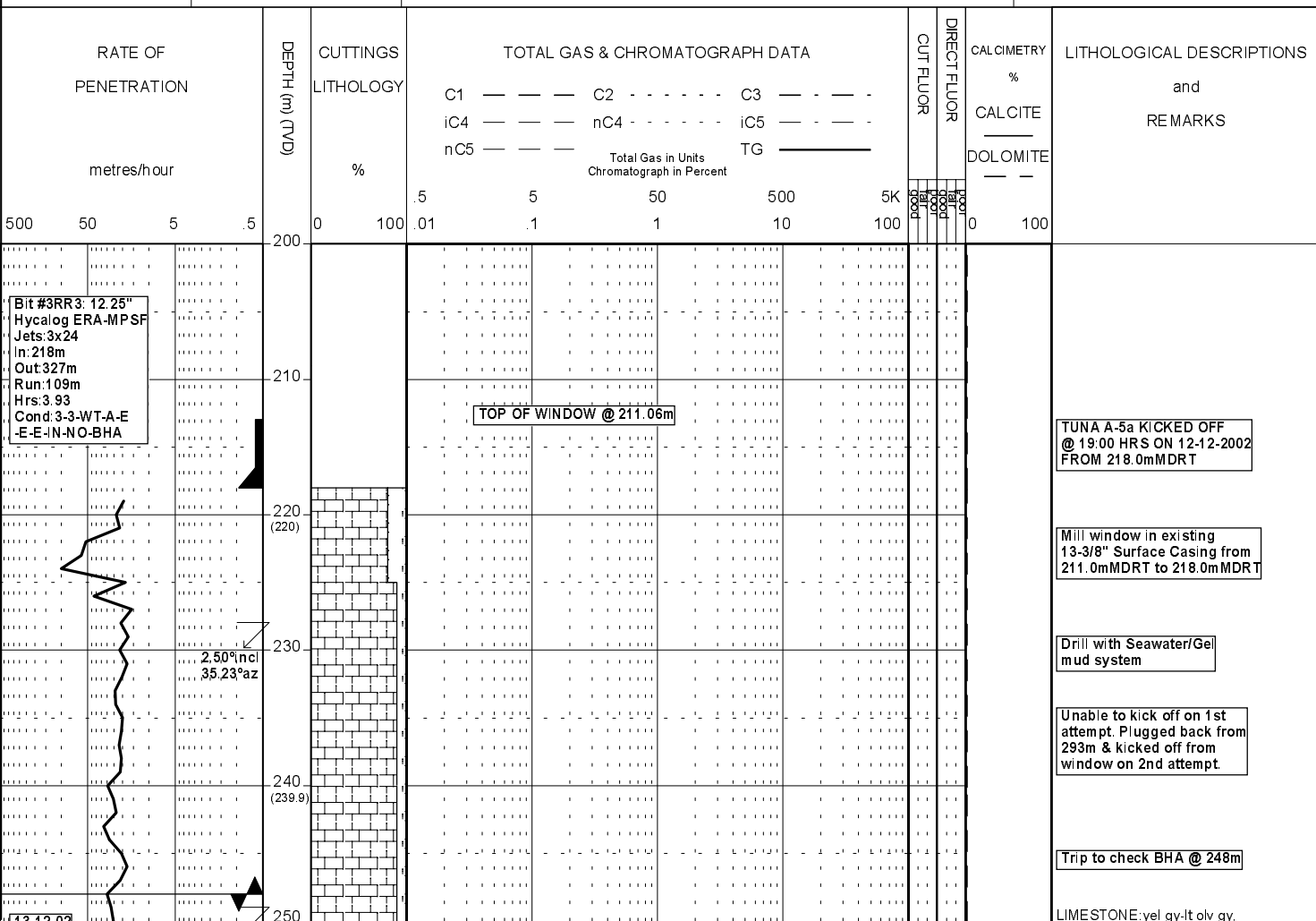


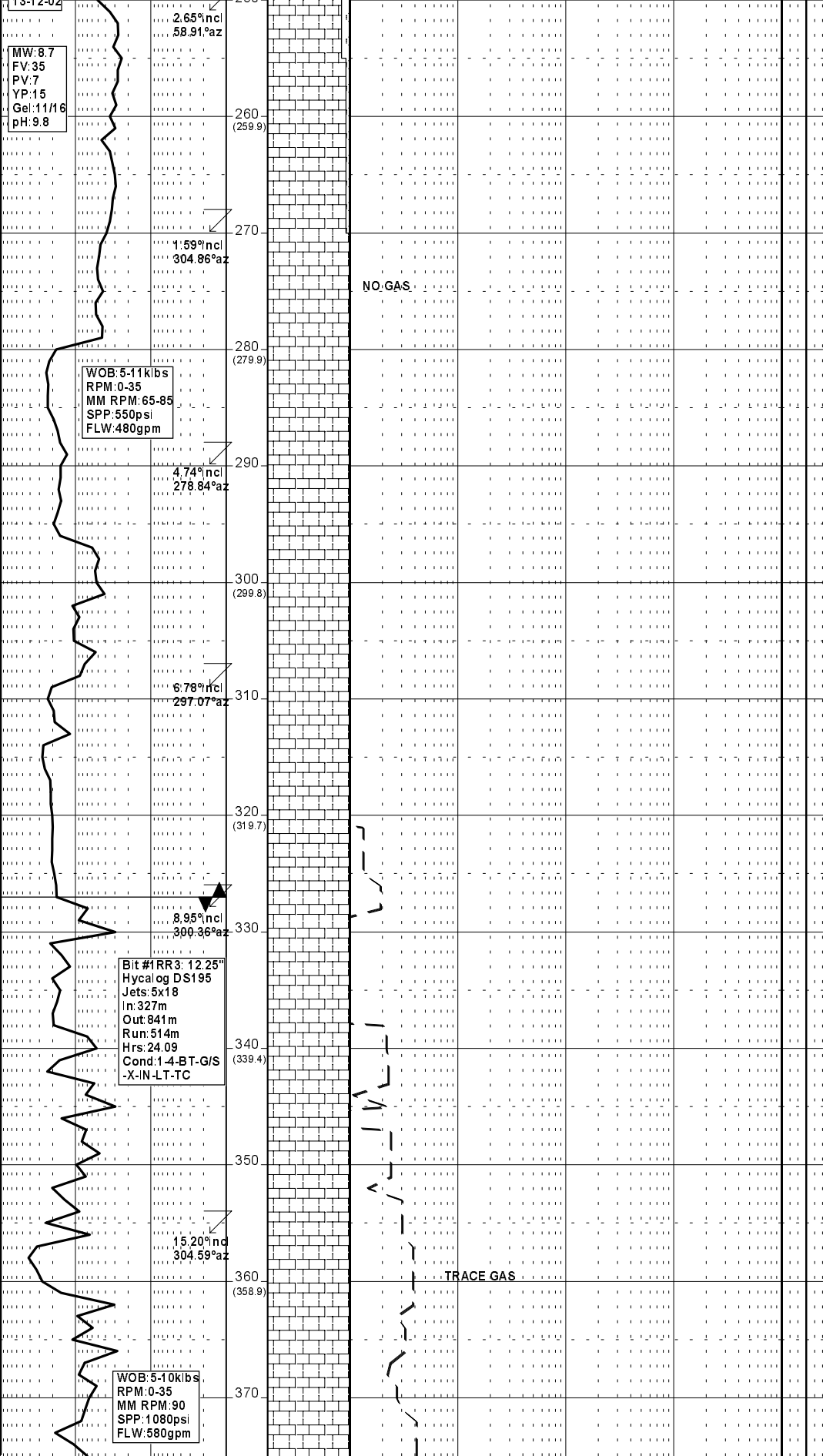
# MASTERLOG TUNA A-5A



GENERAL	POSITION	HOLE / CASING INFO	DATE / DEPTH	ENGINEERS
Country : Australia	Local Co-ord X : 8.52 mE	12-1/4" Hole to 841 m	Spud Date : 12-12-2002	Rohan Pereira
Permit : VIC L9	Local Co-ord Y : 0.29 mN	8-1/2" Hole to 3257 m	Total Depth Date : 24-12-2002	Matthew Boyd
Field : Tuna	AMG Co-ord X : 624233.40 mE	20" Conductor Shoe @ 163.4 m	Total Depth : 3257.0 m	Phil Rady
Basin : Gippsland	AMG Co-ord Y : 5774225.83 mN	13-3/8" Surface Casing @ 218.0 m	True Vertical Depth : 1450.68 m	Mark Smith
Well Type : Development	RT to MSL : 31.32 m	9-5/8" Intermediate Casing @ 835.0 m	Log Scale : 1/ 500	
Rig Name : Nabors 453	RT to Sea Bed : 90.72 m	7" Production Casing @ 3251.0 m	Depth From (m): 200 To: 3270	

ABBREVIATIONS		LITHOLOGY LEGEND				ENGINEERING LEGEND	
MW Mud Weight	WOB Weight on Bit (klbs)	CLAYSTONE	MARL	BRYOZOA	CARB FRAGMENT	CASING SHOE	WIRELINE LOGS
FV Funnel Viscosity	RPM Rotations Per Min	SILTSTONE	LIMESTONE	RADIOLARITES	QUARTZITE	LINER HANGER	MDT POINTS:
PV Plastic Viscosity	FLW Flow Rate (gpm)	SST: F - V FINE	DOLOMITE	ECHINOIDS	INTRUSIVES	BIT CHANGE	← PRESSURE ONLY
YP Yield Point	SPP Pump Pressure (psi)	SST: MEDIUM	CHERT	CORALS	GLAUCONITE	DEVIA. SURVEY	← SAMPLE
Gel Gel Strength	RR Re-Run Bit	SST: COARSE	CONGLOMERATE	FORAMINIFERA	PYRITE	SWC UNRECOV	← SEAL FAILURE
WL Water Loss	TG Trip Gas	SHALE	COAL	LITHIC FRAGMENT	CEMENT	SIDEWALL CORE	← TIGHT
KCI Potassium Chloride	CG Connection Gas					CORE	
CI Chlorides	BG Background Gas						
Incl Inclination	DGP Drilled Gas Peak						
Az Azimuth	MM Mud Motor						





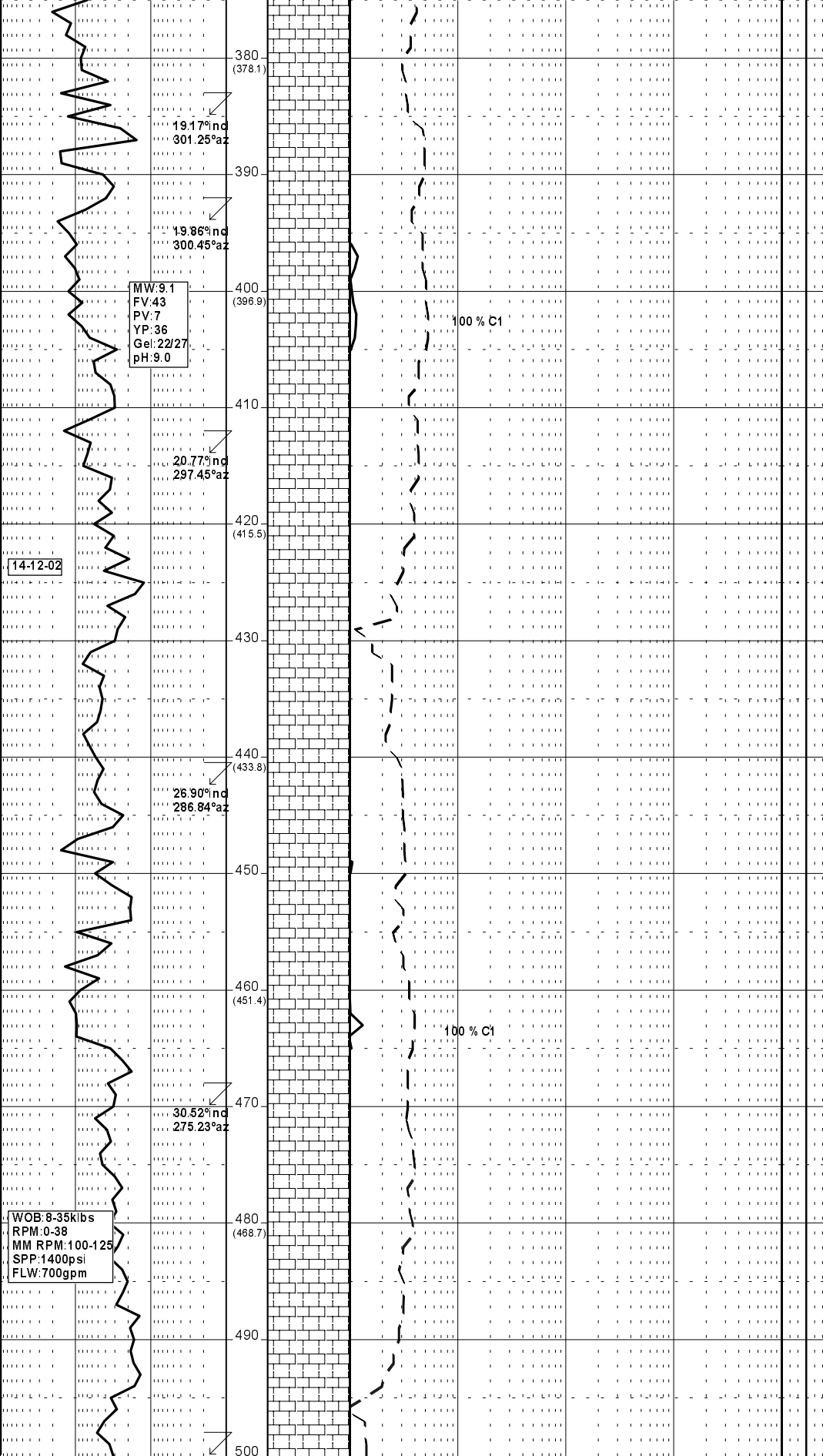
Clclt, Cclar, com foss frag, abd  
shell frag, occ xln LMST, sft, com  
mod hd agg.

No H2S or CO2 detected

LIMESTONE: it olv gy-lt gy, occ  
yel gy, pred Cclar, Clclt i/p, com  
shell frag, tr ooid, tr pyr, sft  
frm, occ mod hd.

POOH @ 327 to change bit  
& add MWD tools to BHA

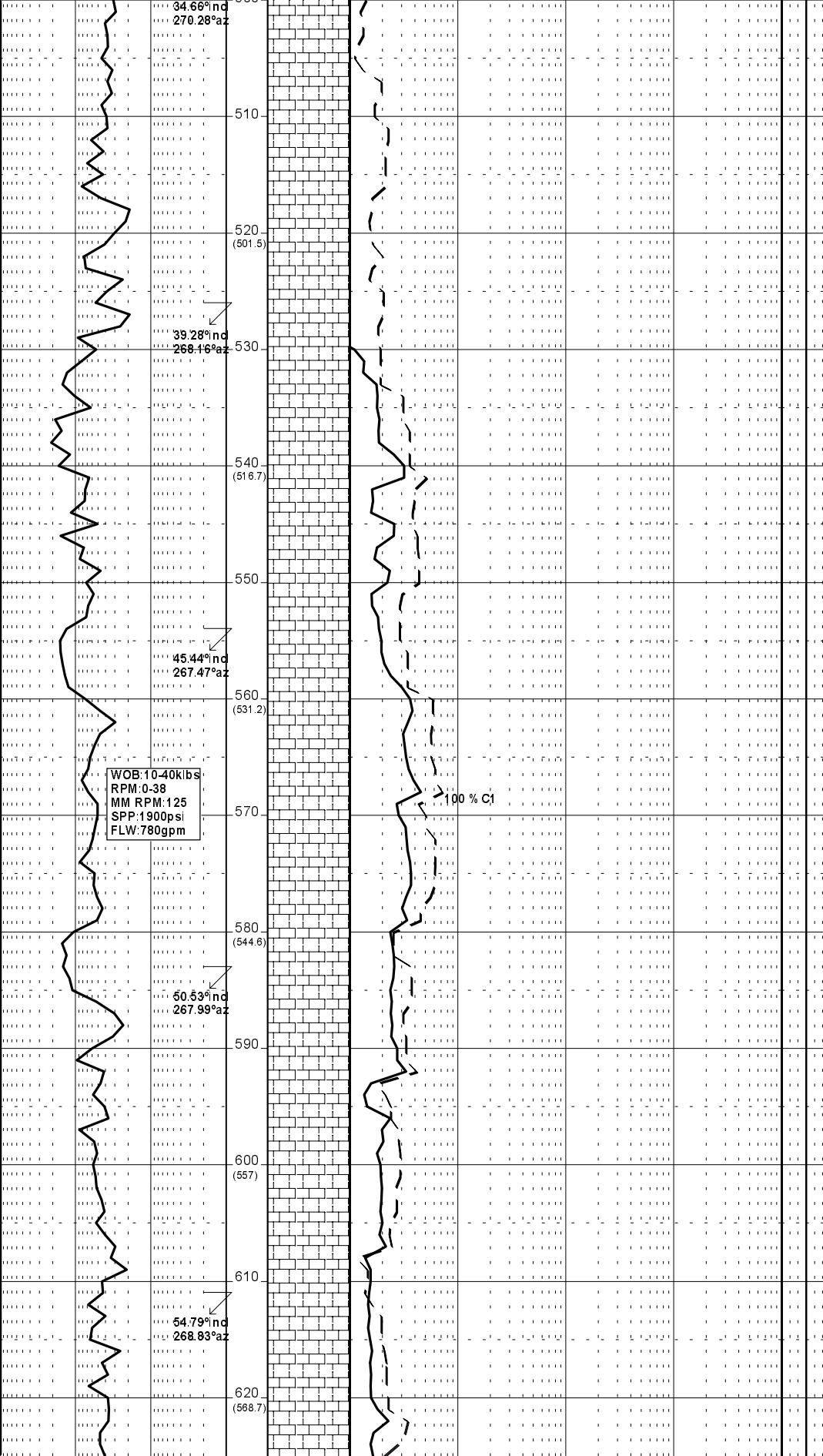
LIMESTONE: it olv gy-lt gy,  
yel gy i/p, pred Cclar, com CLclt,  
com foss, abd shell frag, tr ooid,  
occ nod pyr, mod hd, com, sft.



LIMESTONE:lt gy-lt olv gy,  
pred Clot,com Clcar,com foss &  
shell frag,tr nod pyr,sft-mod  
hd.

LIMESTONE:lt gy-med gy,lt olv  
gy,Clcar,com xln LMST,abd foss  
frag,tr nod pyr i/p,sft-mod hd.

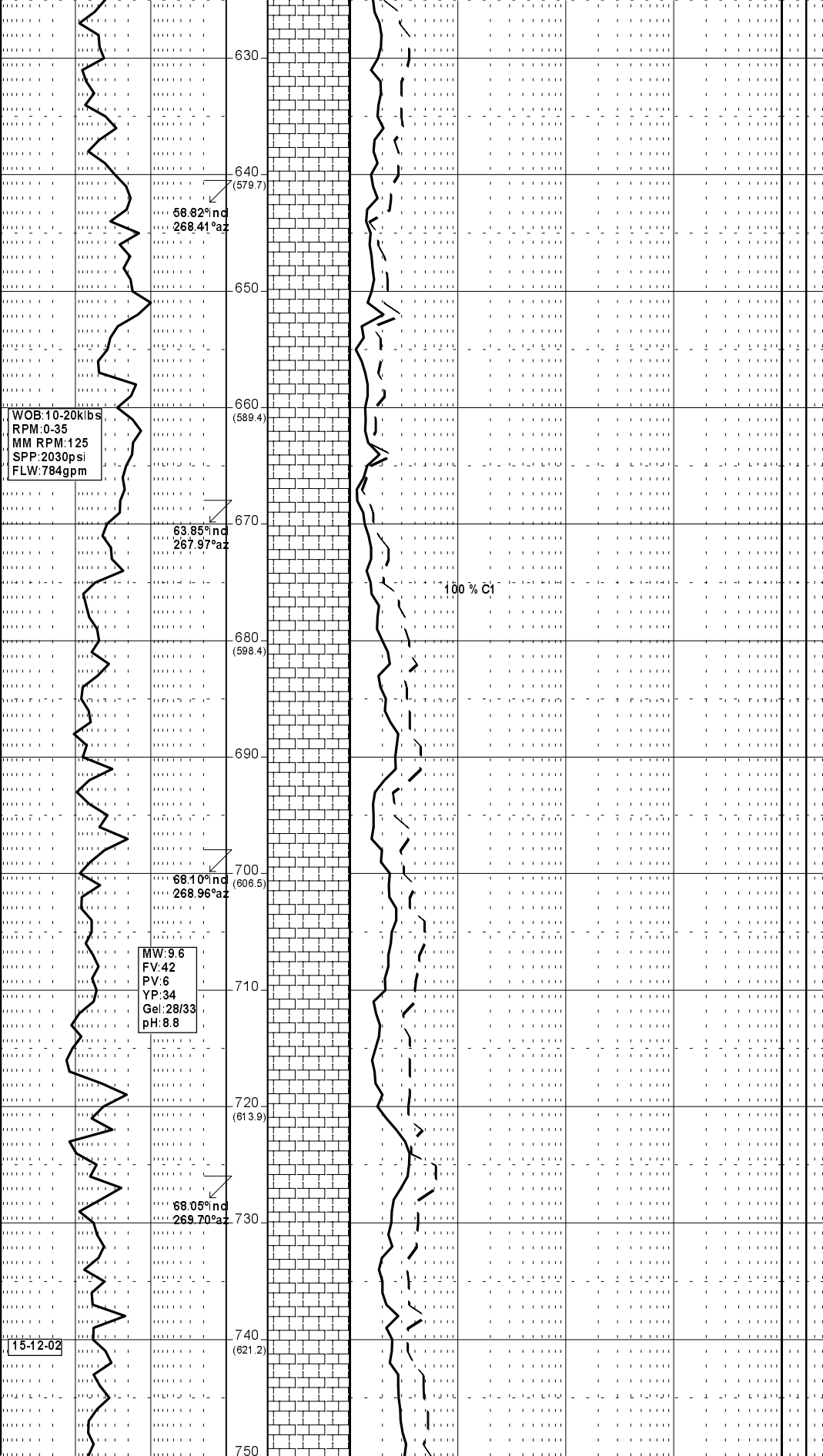
LIMESTONE:lt olv gy-m lt gy,occ



lt gy,Clcar,com g/t Clclt i/p,  
abd foss frag,com xln LMST,t  
nod pyr,glauc incl,sft frm,occ  
mod hd

LIMESTONE:lt olv gy-m lt gy,occ  
lt gy,Clcar,com g/t Clclt,abd  
foss frag,com xln LMST,t glauc,  
tr nod pyr,sft frm,occ stky.

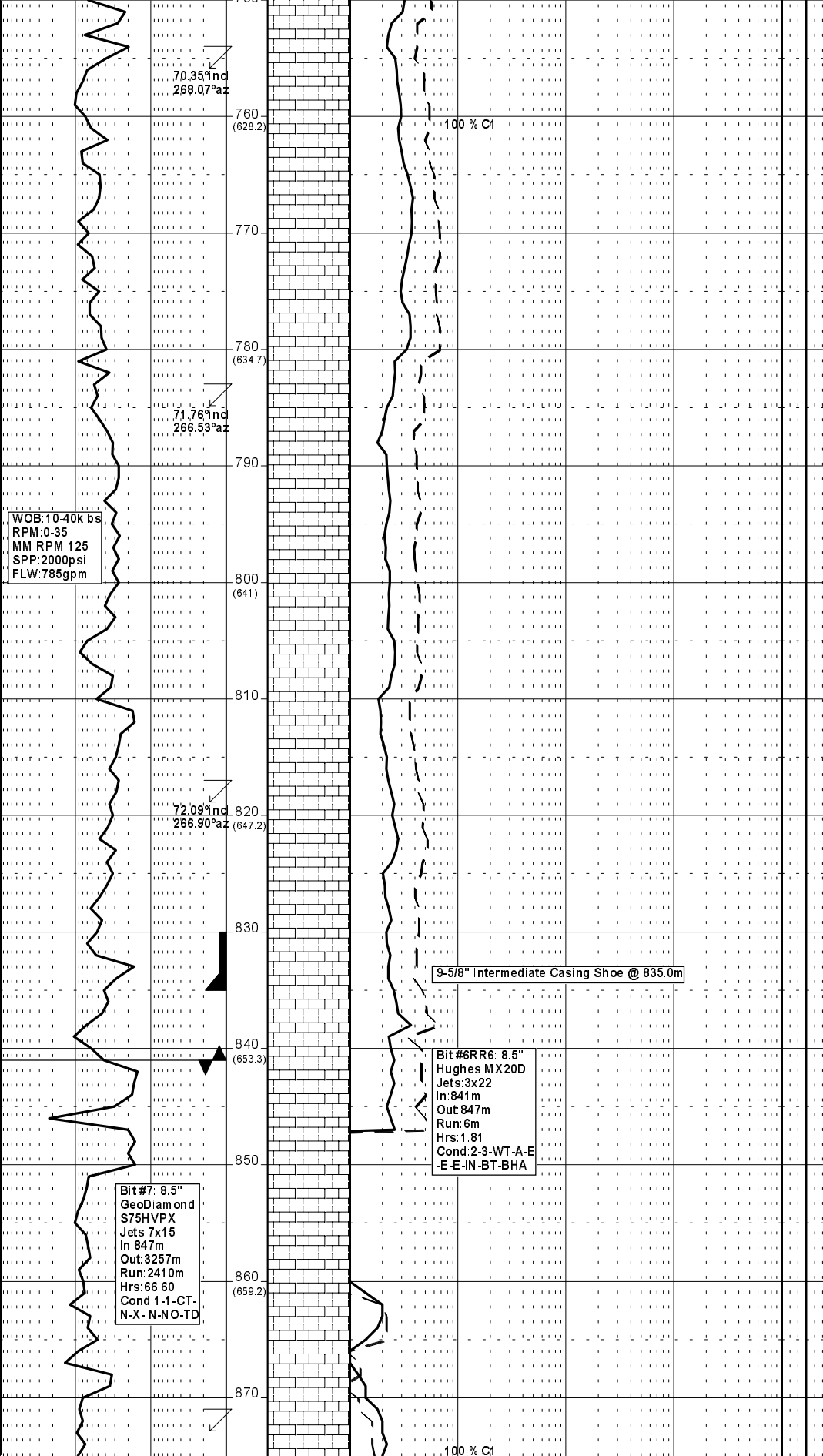
LIMESTONE:lt olv gy-m lt gy,occ  
lt gy,Clcar,g/t CALC CLYST i/p,  
com foss frag,tr xln LMST,t  
glauc,t ooid,t nod pyr,sft frm  
occ stky.



LIMESTONE:lt olv gy-m lt gy,occ  
lt gy,Clcar,g/t Clct & CLST i/p  
com foss frag,tr xln LMST,tr  
ooid,trnod pry,tr glauc,sft frm,  
occ stky.

LIMESTONE:yel gy-lt olv gy,  
lt gy,Clct,g/t CLYST i/p,ooid,  
com foss frag,occ hd xln LMST,  
sft-mod hd.

LIMESTONE:yel gy-lt olv gy,  
pred Clcar,abd foss frag,com



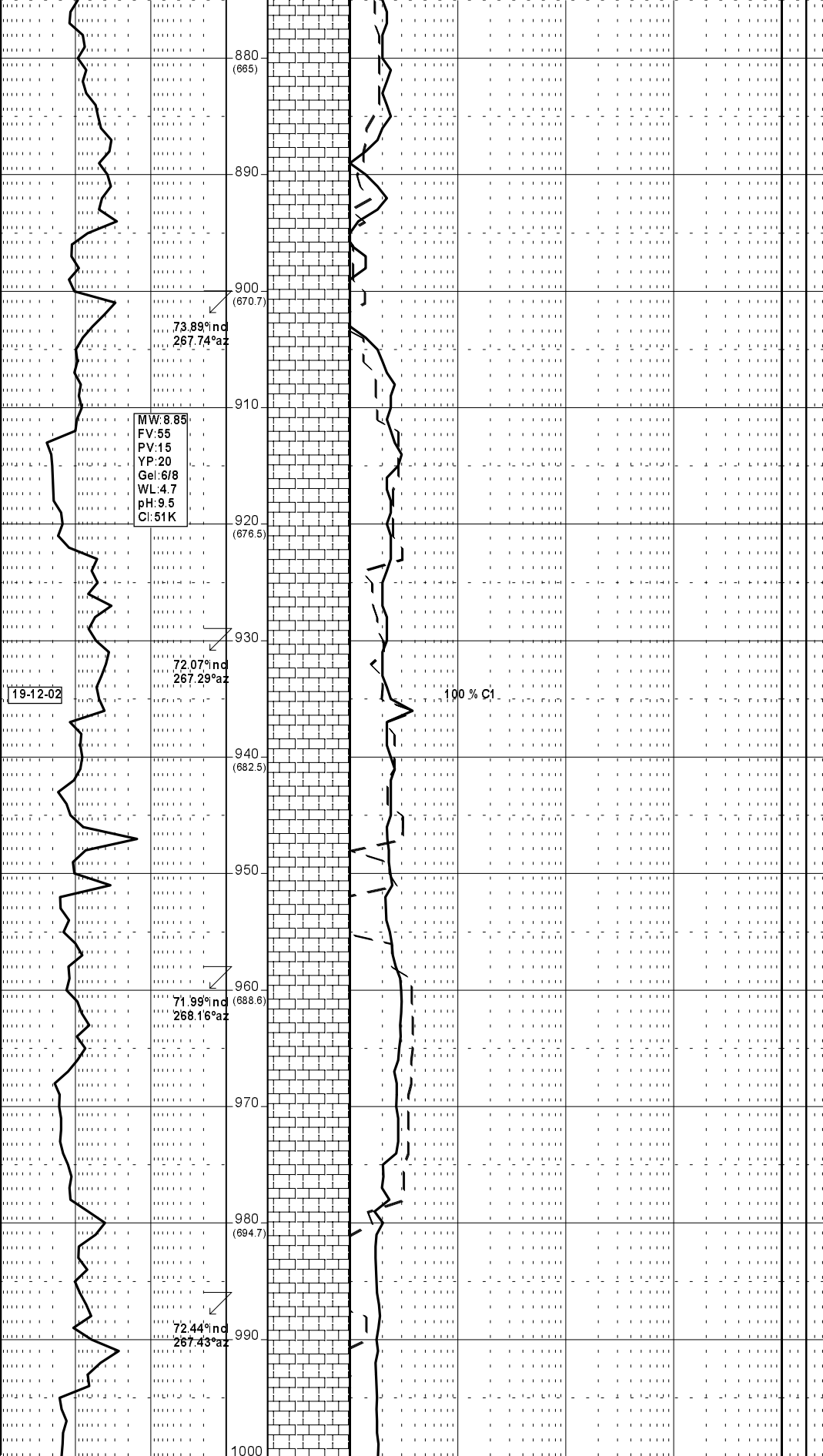
oid,com xln LMST,mod hd-hd.

LIMESTONE: yel gy-lt gy,  
Clear,oid,abd foss & shell frag  
occ xln LMST,mod hd.

LIMESTONE: lt olv gy-yel gy,occ  
lt gy, Clear, g/t Cltlt i/p, tr  
oid, com foss frag, tr glauc, sft  
-frm, occ mod hd.

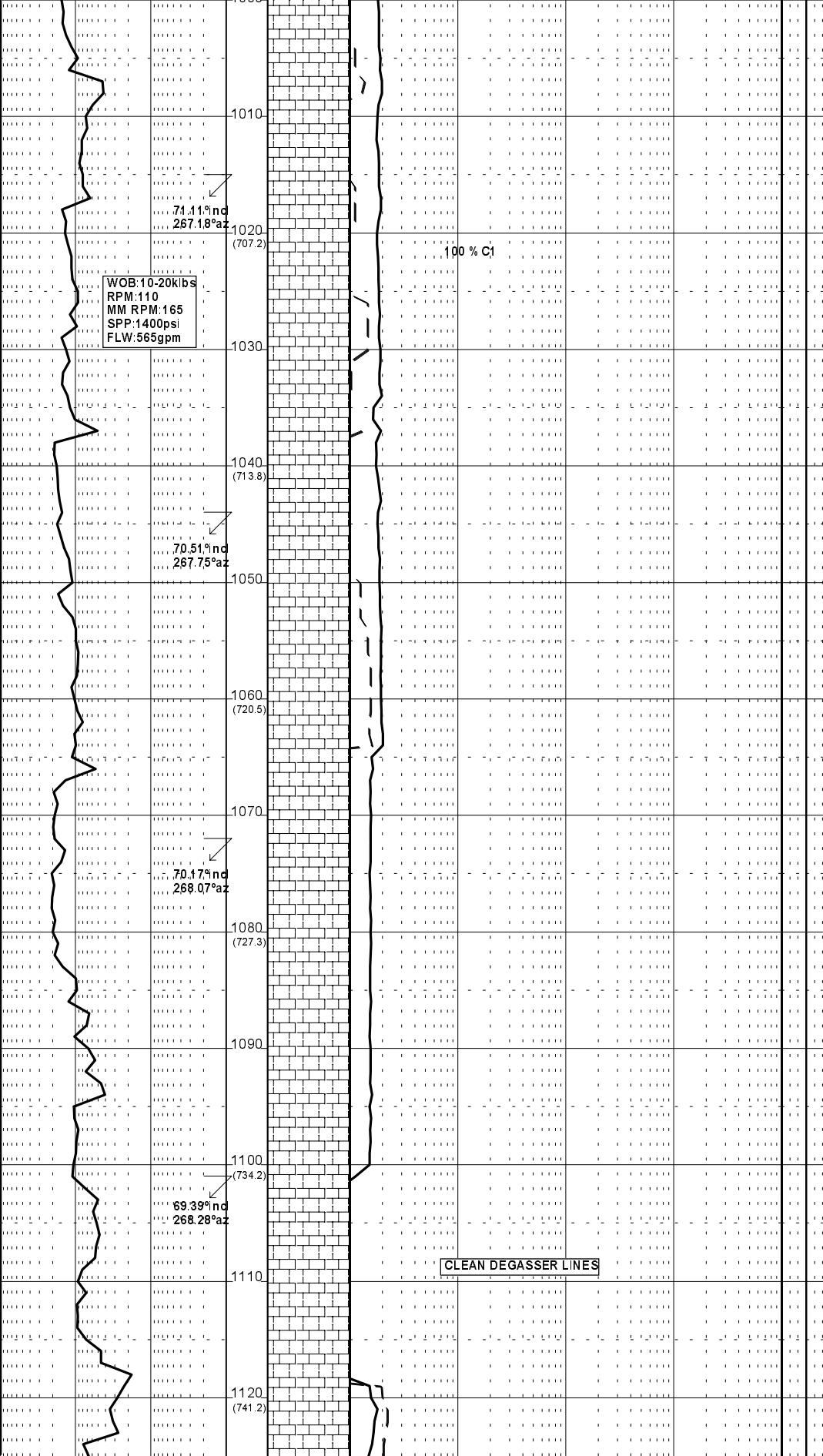
PIT @ 835m: EMW = 13.7 ppg  
(547 psi @ 8.8 ppg)

Drill with KCl/PHPA  
Polymer mud system



LIMESTONE:lt gy-lt olv gy,med  
olv gy i/p,pred Clcar,g/t Clclt  
occ shell & foss frag,occ ooid,  
occ dissem pyr,mnr glauc incl,  
pred sft frm.occ mod hd-hd i/p.

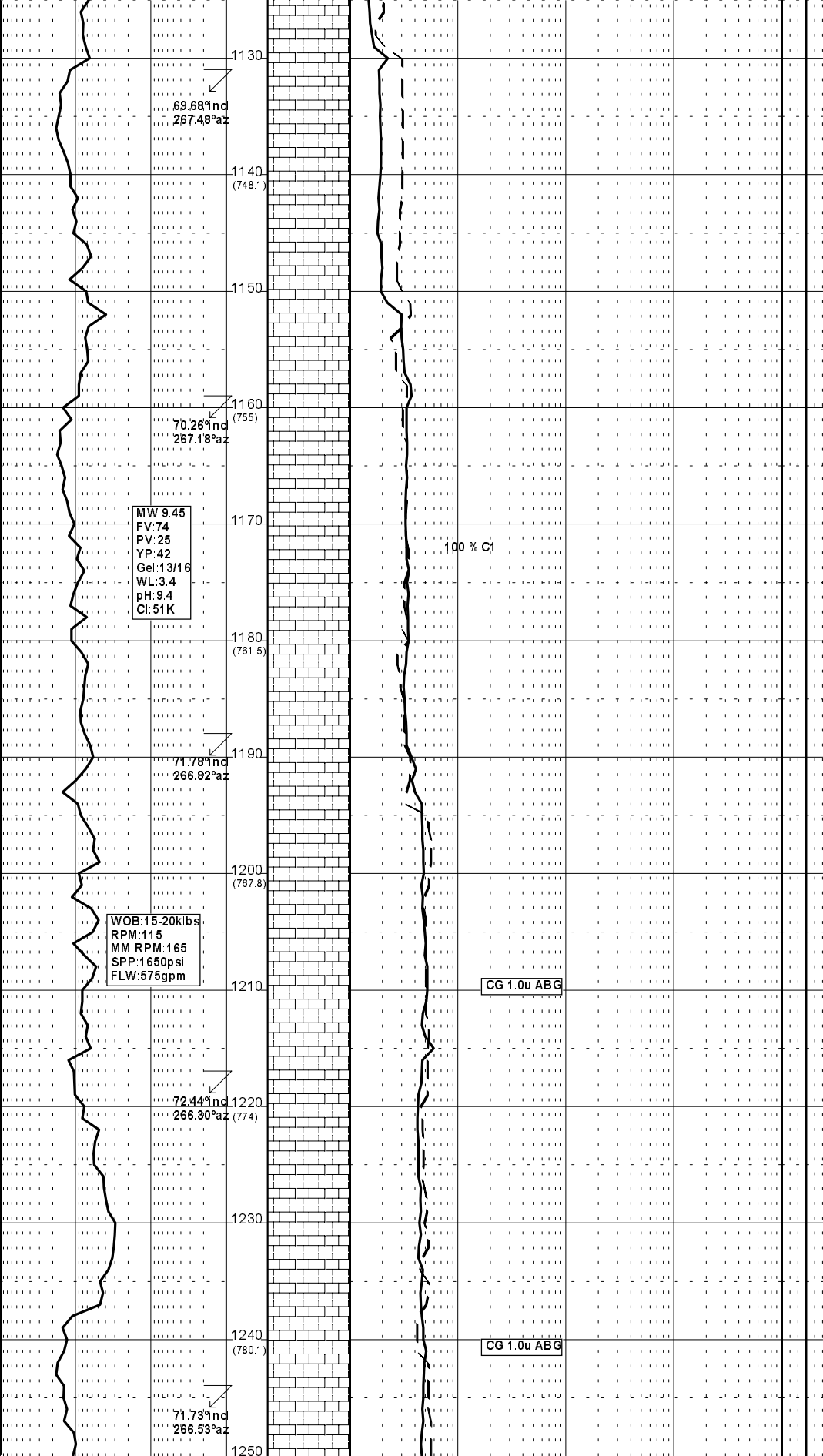
LIMESTONE:lt gy-olv gy,med-dk  
gy i/p,pred Clcar,g/t Clslt  
com dissem pyr,occ glauc incl,  
occ shell & Calc frag,pred sft,  
occ mod hd.



LIMESTONE: med gy-olv gy, pred  
Clst, g/t Clst i/p, occ Clcar  
i/p, occ foss frag, occ Calcite, tr  
glau, com dissem pyr, sft-frn.

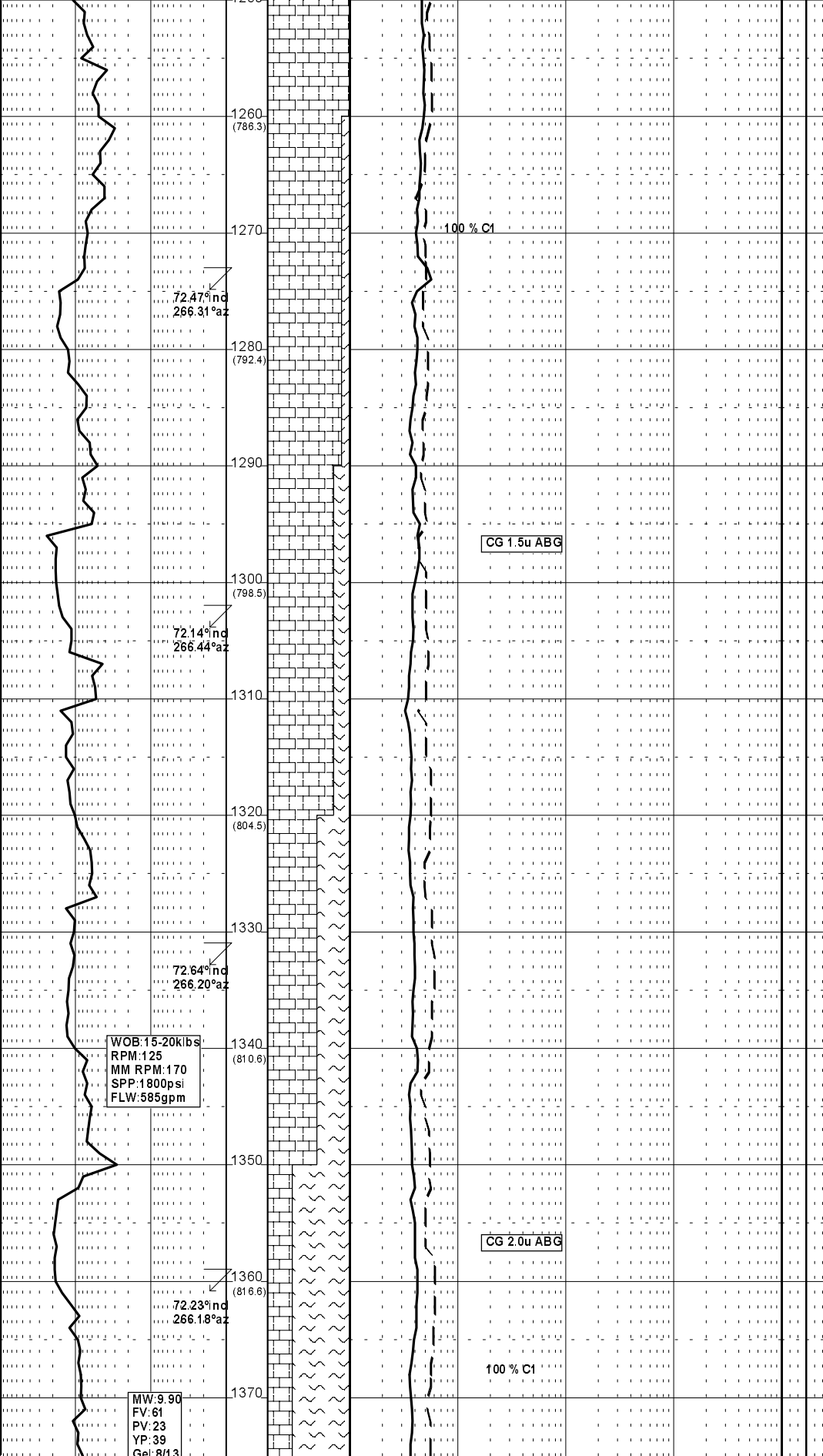
LIMESTONE: yel gy, lt olv gy,  
v arg, g/t Clst i/p, com foss,  
occ ooid, rr dissem pyr, sft,  
sbbiky.





LIMESTONE:lt olv gy,gn gy i/p,  
med lt gy,v arg,Clclt,occ ooid,  
tr nod & disseminated pyr,sft sbbkly.

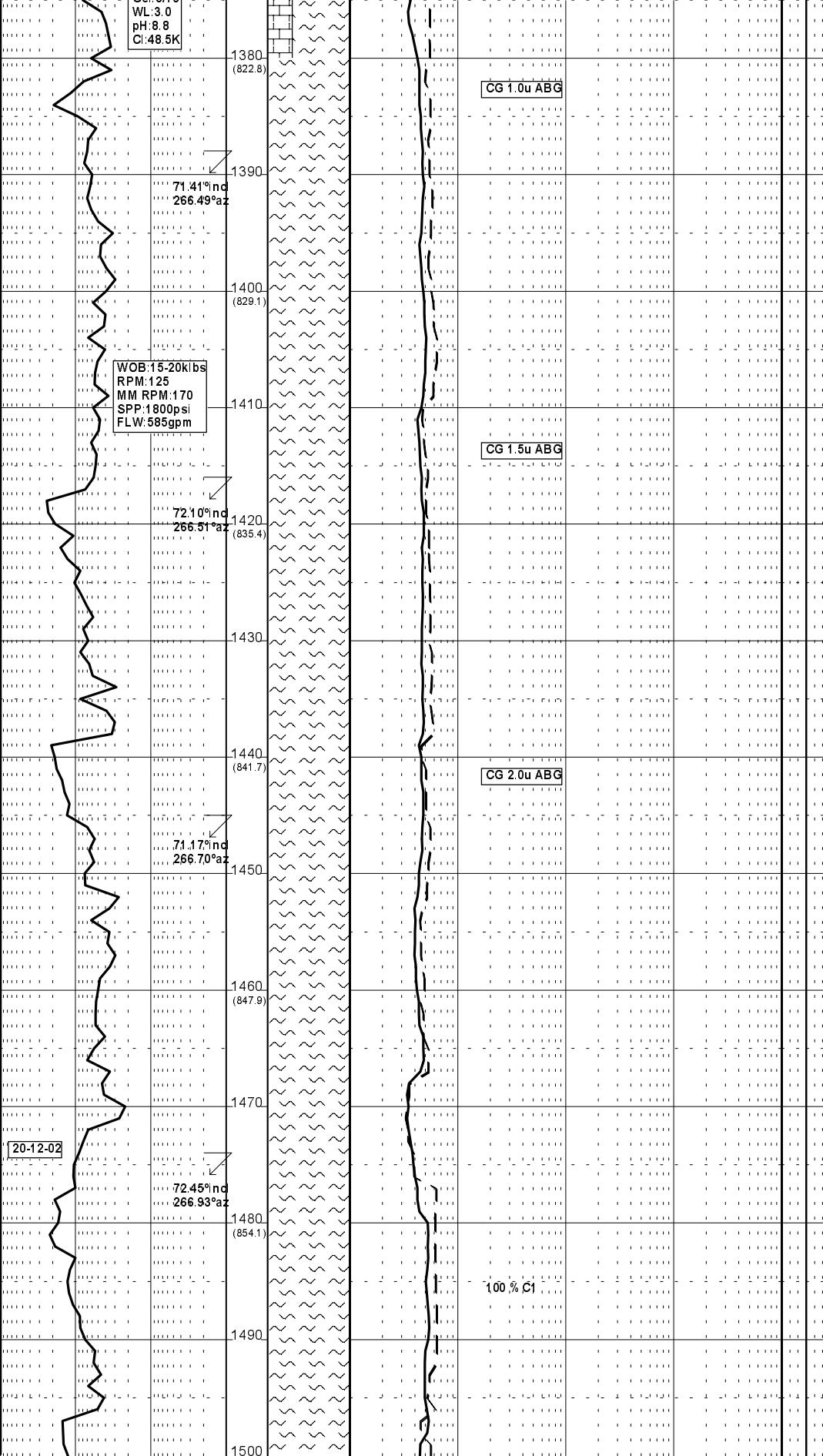
LIMESTONE:lt olv gy-med gy,  
arg,Clclt,tr ooid,tr disseminated pyr,  
rr glauc grn,v sft,disp i/p,  
sbbkly,amor.



MARL:lt gy-lt olv gy,med gy  
occ ooid,tr dissem pyr,rr  
xln LMST,sft disp,sbbiky.

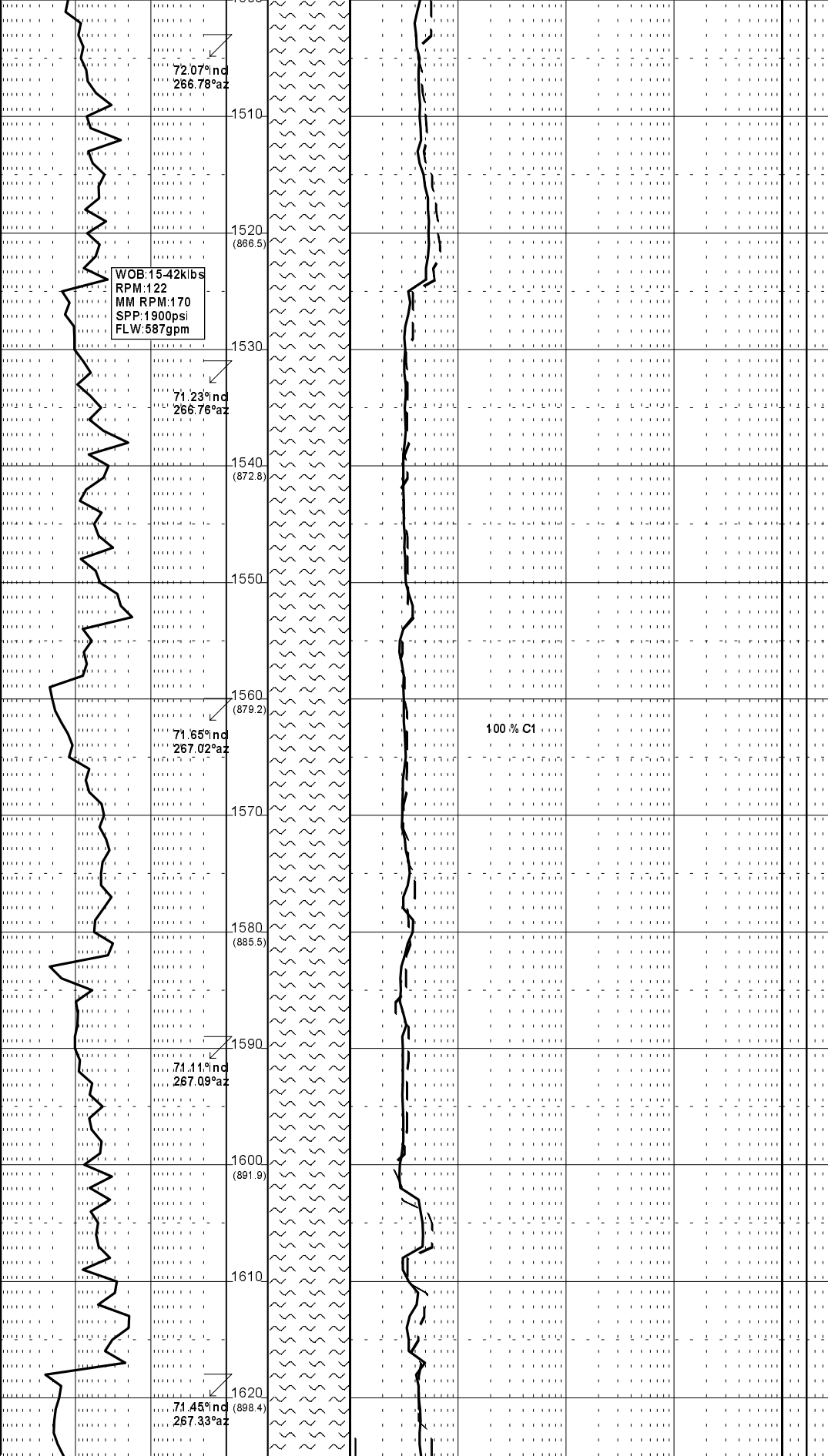
LIMESTONE:lt olv gy-gn gy,arg,  
g/t MARL i/p,t ooid,rr dissem  
pyr,sft-disp,sbbiky-am or.

MARL:lt olv gy-gn gy,olv gy  
i/p,t dissem pyr,rr glauc,rr  
ooid,rr xln LMST,sft,occ frm-mod  
hd,blky.



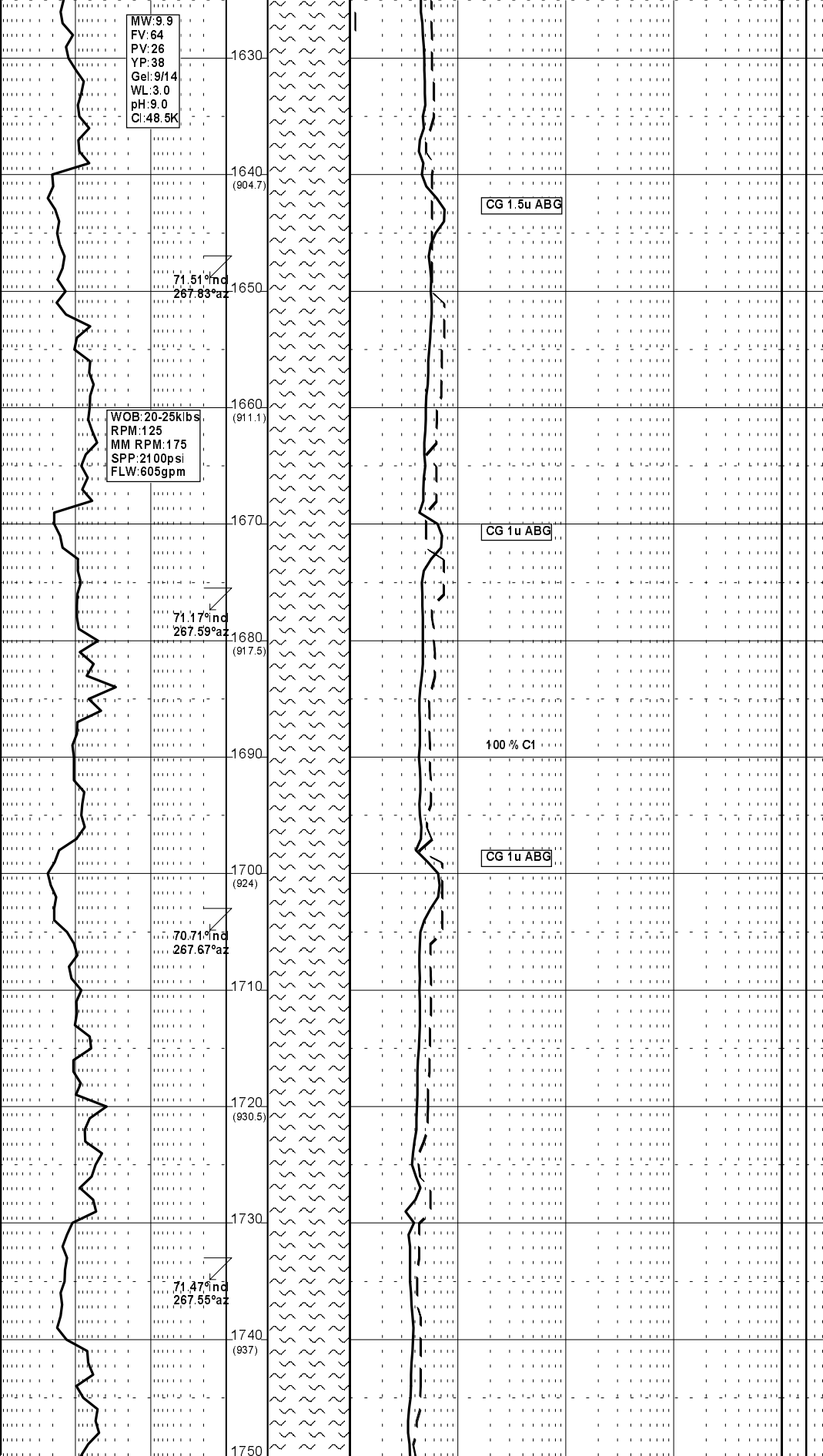
MARL: olv gy, occ dk olv gy, occ  
dissem pyr, occ foss frag & oid,  
sft frm, sbbiky, occ blkly.

MARL: olv gy, dk olv gy, com  
dissem pyr, com foss, sft frm,  
sbbiky- amorph.



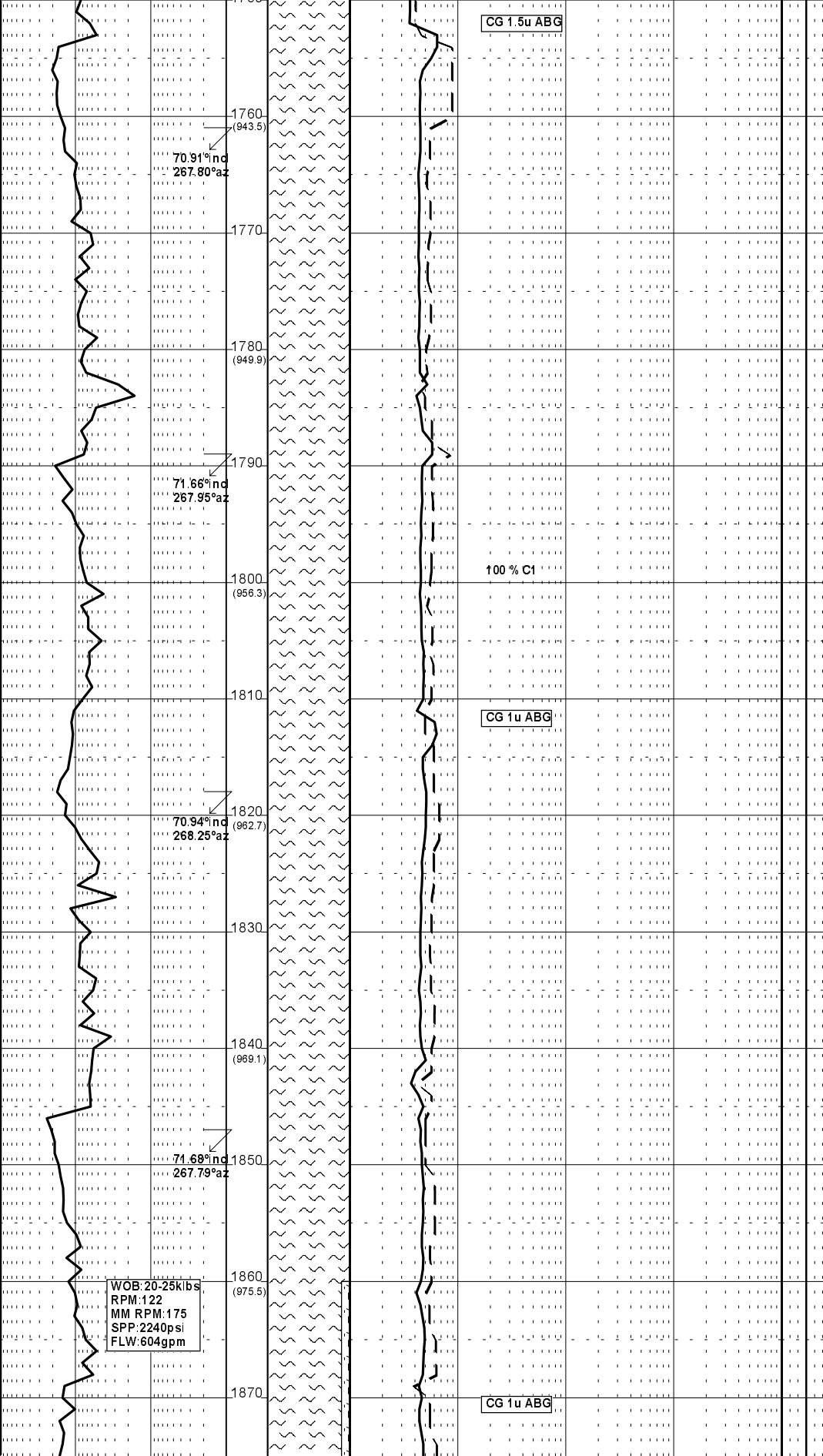
MARL:lt olv gy-dk olv gy,com  
foss frag,occ ooid,occ disse  
pyr,sft-frn,occ frn-mod hd,amor-  
sbbiky,blky i/p.

MARL:lt olv gy-med gy i/p,occ  
foss frag,occ ooid,mnr disse  
pyr,sft,occ frn,sbbiky-blky.

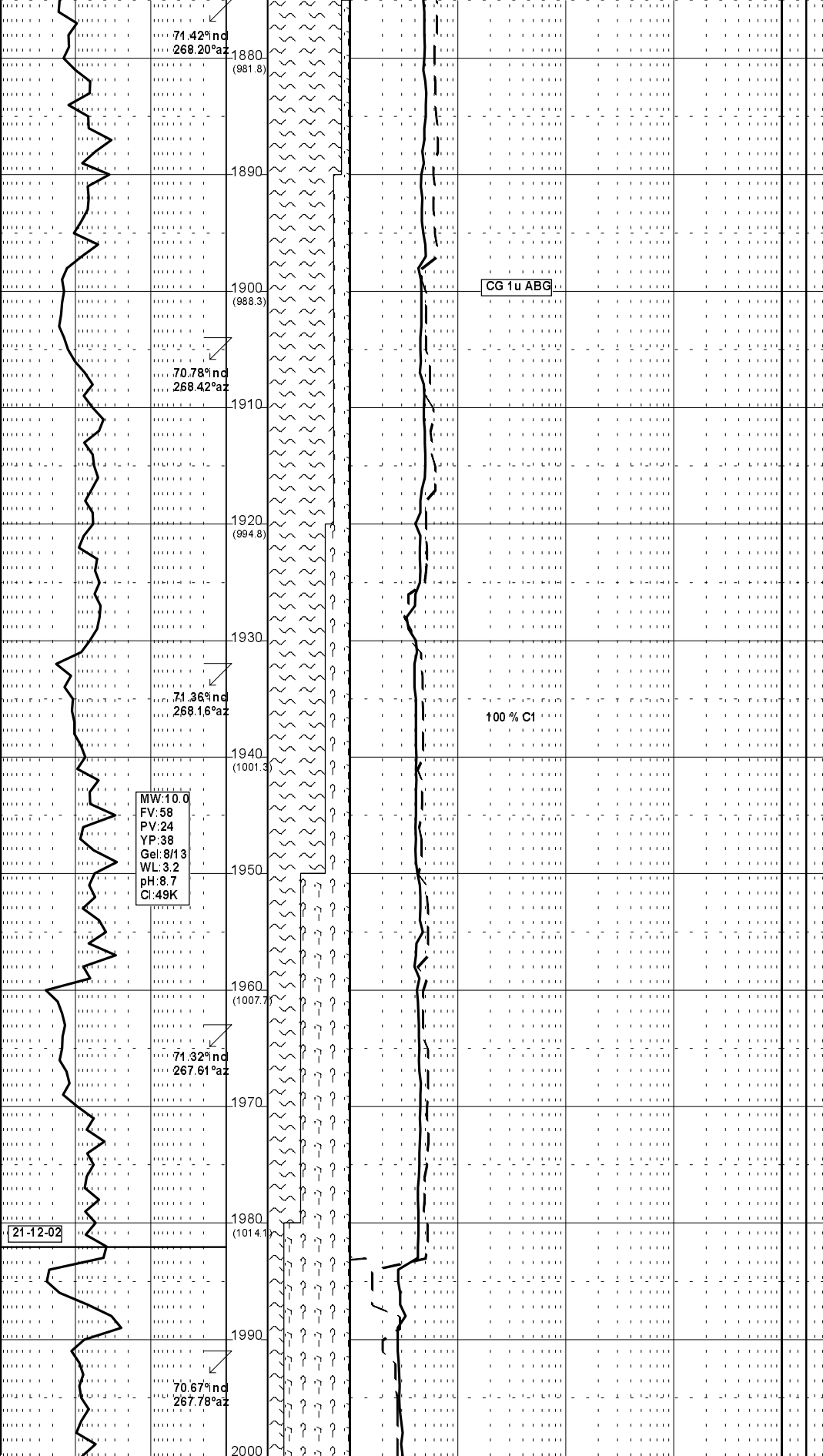


MARL:lt olv gy,med gy,occ dk  
olv gy,mnr foss,occ ooid,tr nod  
& dissem pyr,sft frm,sbbiky.

MARL:med lt gy-lt olv gy,occ  
gn gy,com foss,occ ooid,rr  
dissem pyr,sft,occ frm,biky-  
sbbiky.



MARL: med lt gy-lt olv gy, med  
gy i/p, mnr dissemin pyr, occ nod  
pyr, occ ooid, g/t CLYST i/p, sft-  
frm, sbbiky.



MARL: olv gy, occ dk gy, com disse

pyr, com-abd foss, sft frm, sbbiky-

blky.

CLAYSTONE: med gy-med olv gy, calc

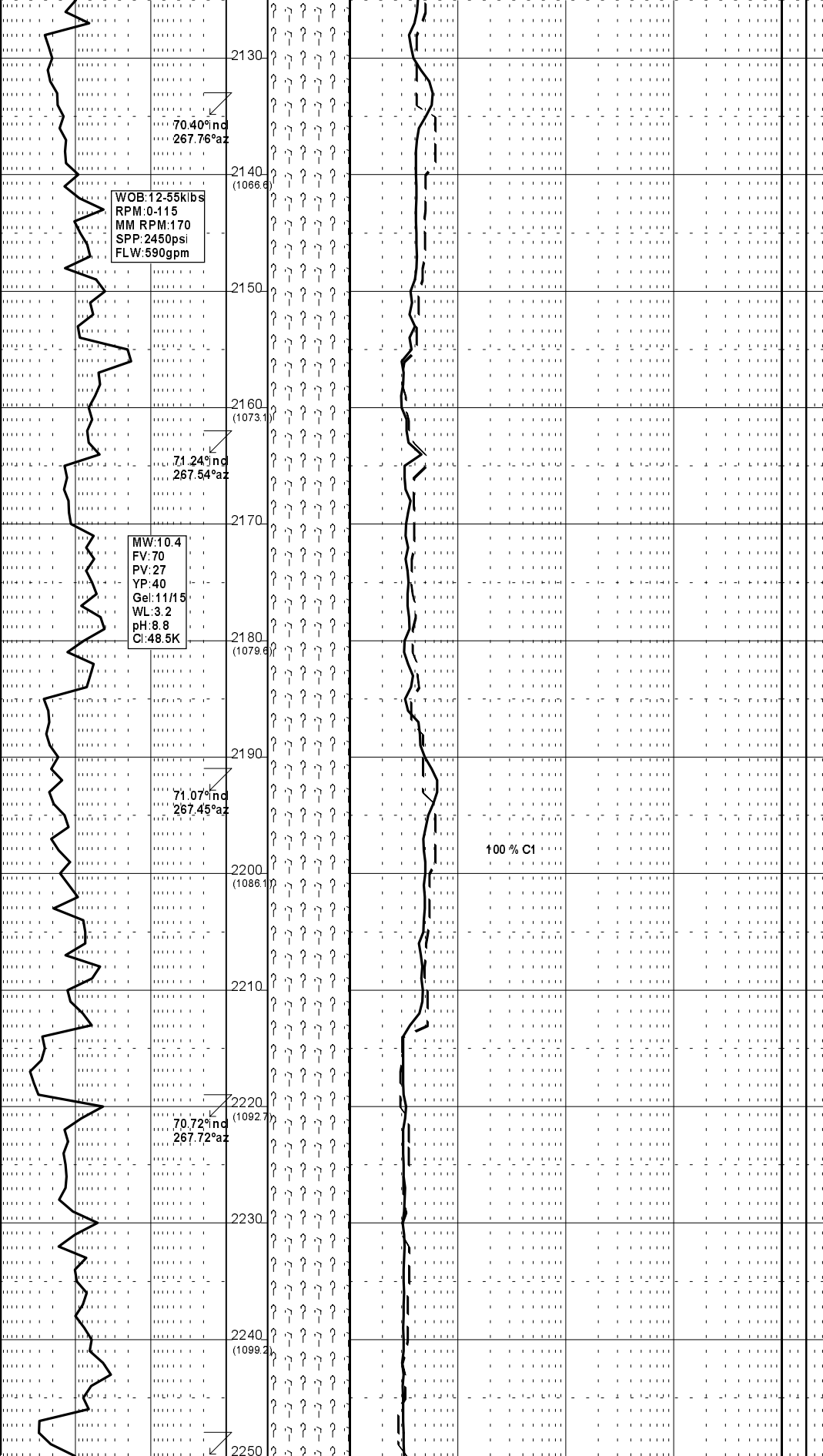
occ disse pyr, frm, sbbiky-blky.

POOH TO SLIP & CUT  
DRILLING LINE

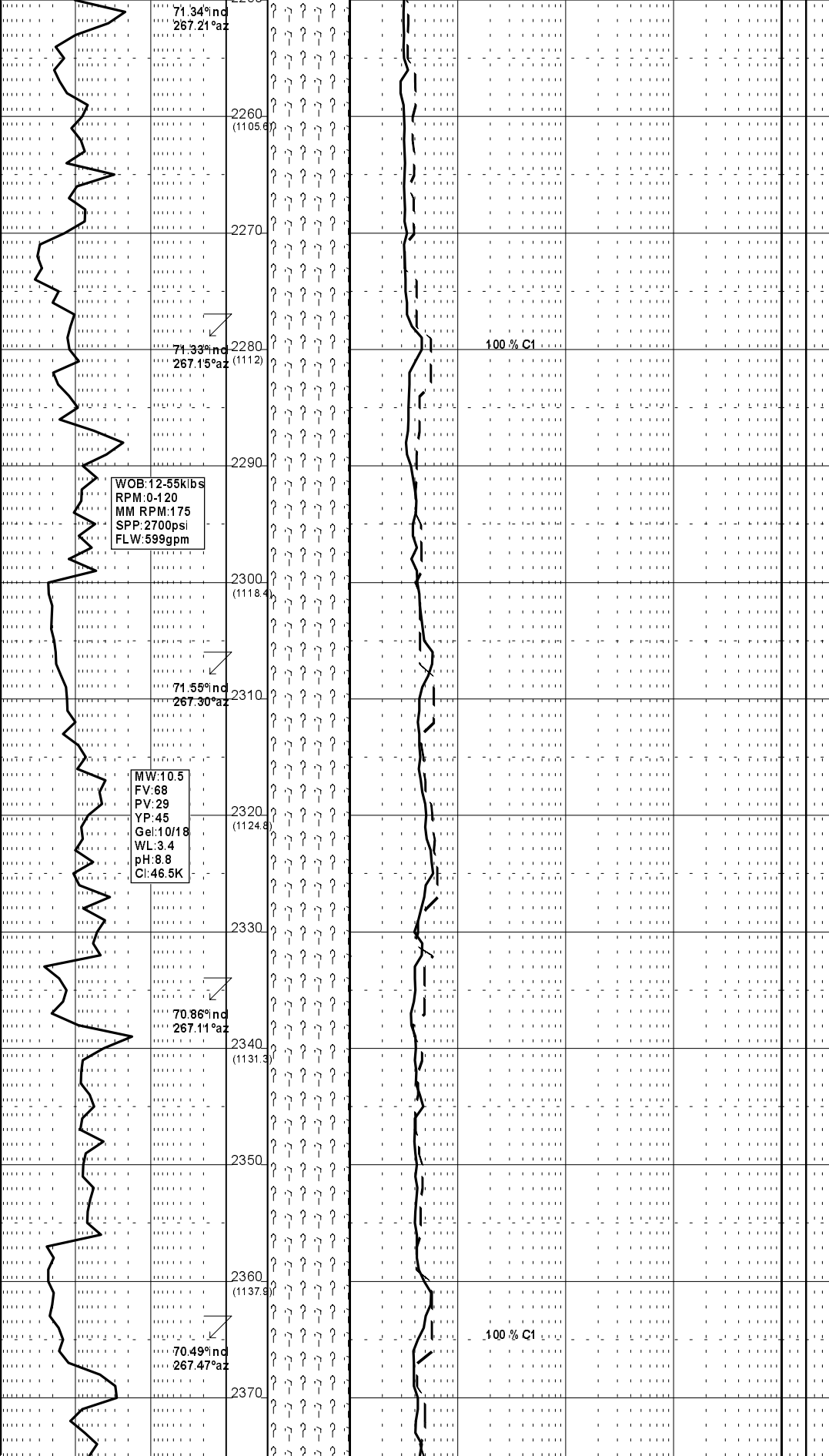
CLAYSTONE: med lt gy-qn gy, lt





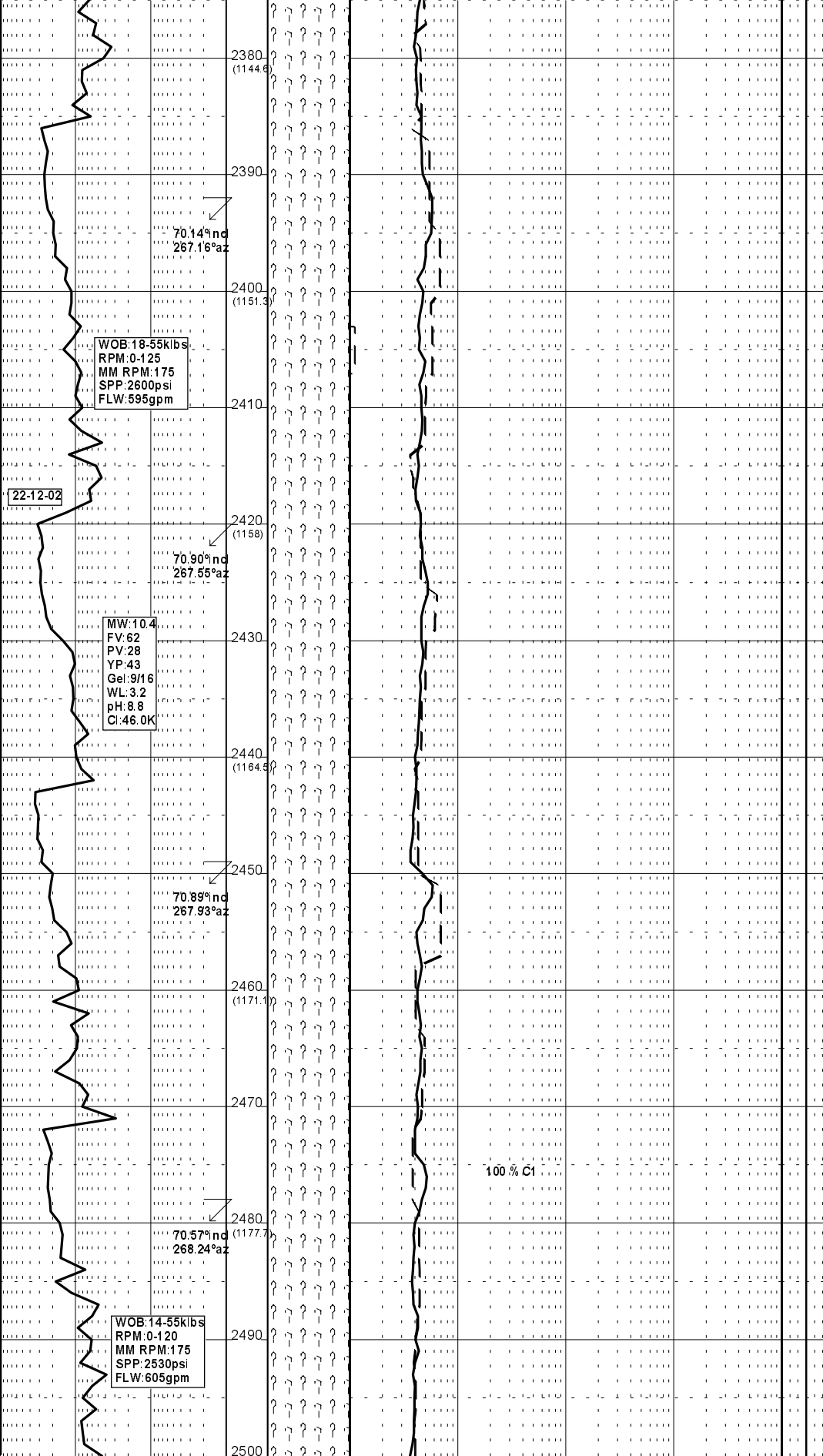


CLAYSTONE: lt bn gy-med lt gy,  
med gy i/p, calc, occ ooid, rr  
glauc, rr nod pyr, sft frm, blk y.



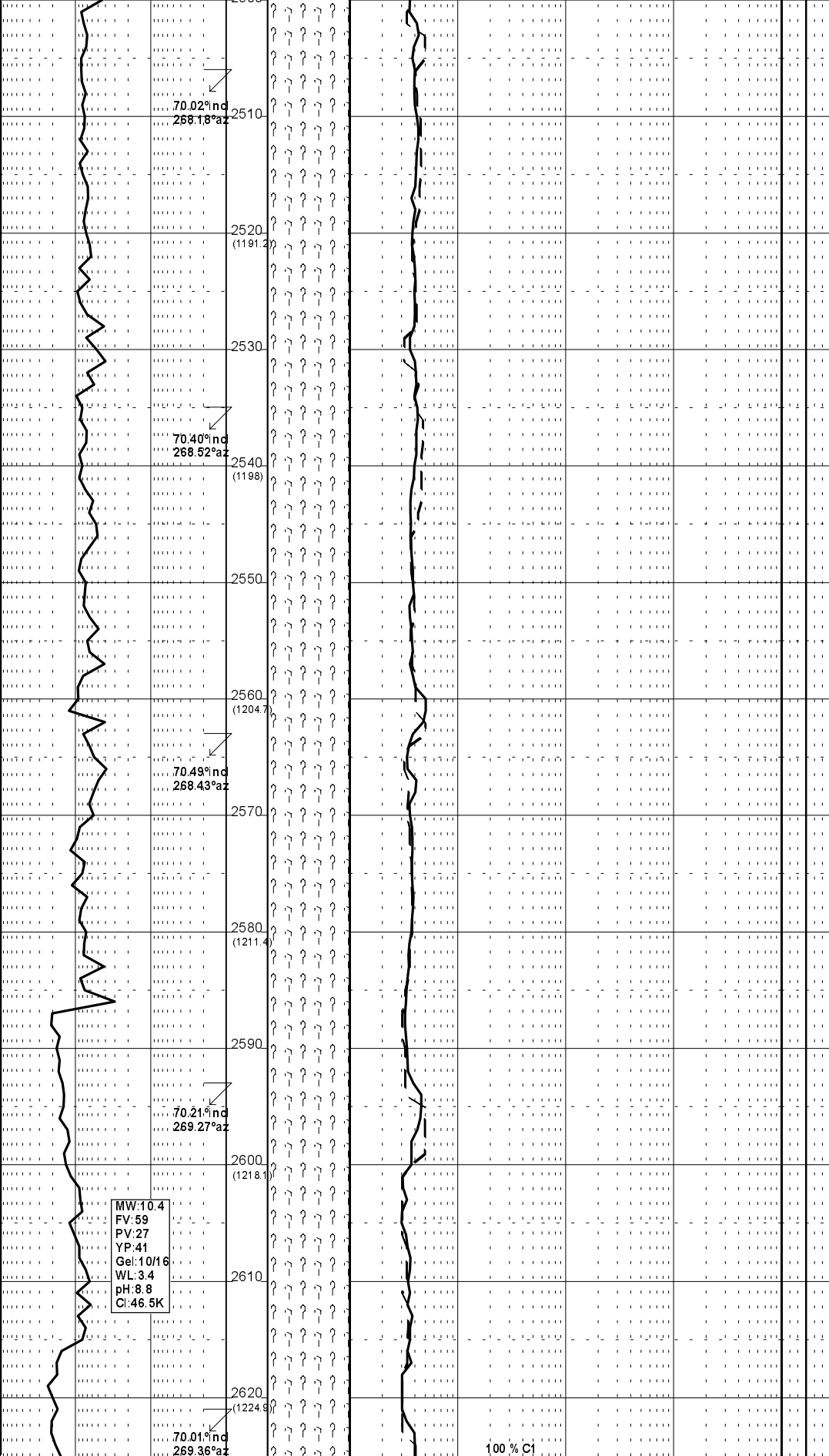
CLAYSTONE: olv gy-dk olv gy, calc  
silty i/p, com dissemin pyr, abd foss  
& ooid, silt-frn, sbbly-blky.

CLAYSTONE: pl olv gy-m olv gy, dk  
olv gy i/p, calc, g/t SLST i/p, frn  
sbbly-blky.



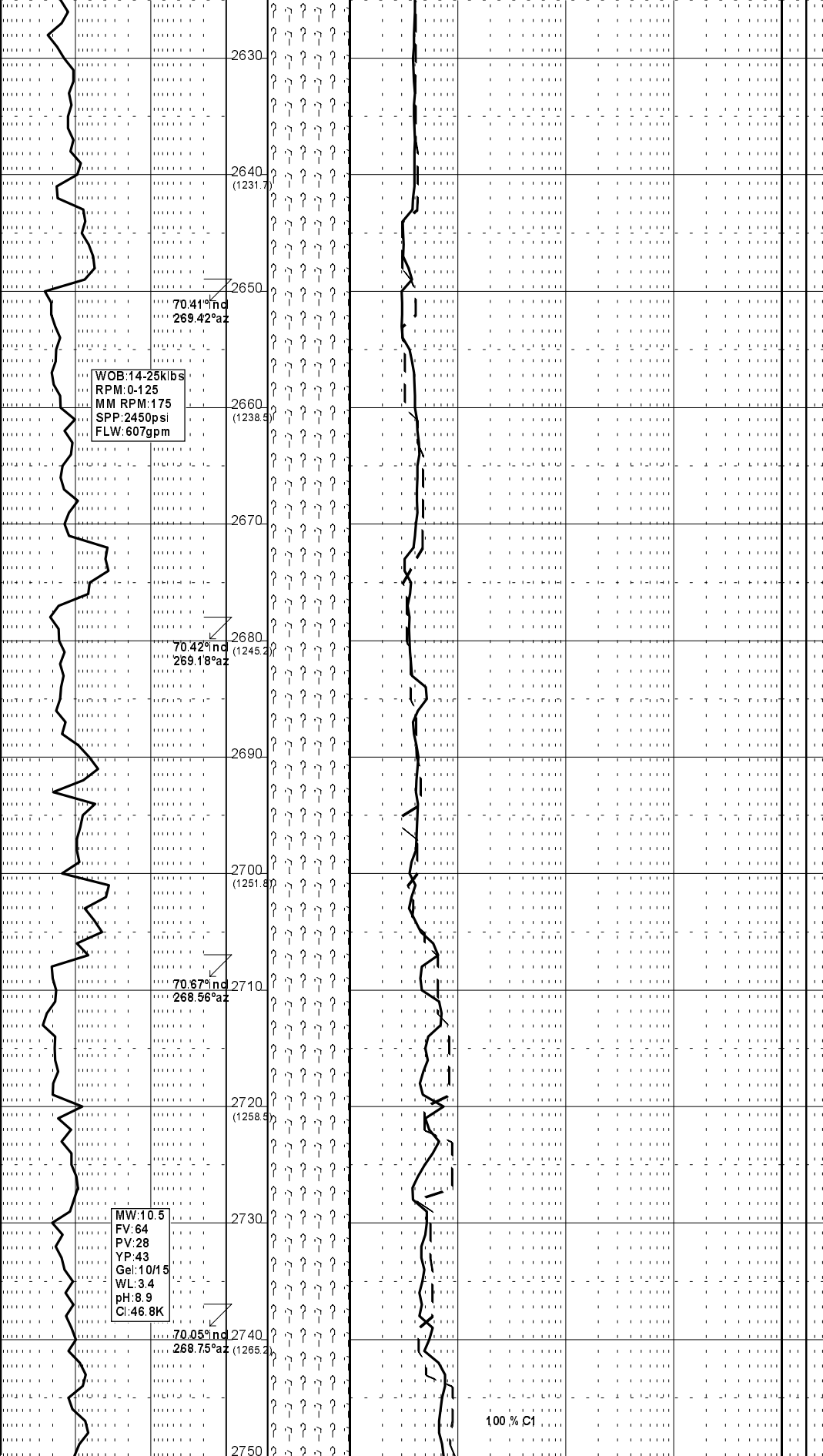
CLAYSTONE: pl olv gy-dk olv gy, rr  
gn gy, calc, g/t SLST i/p, com  
dissem pyr, occ carb spk, com foss  
frm, blk.

CLAYSTONE: pl olv gy-m olv gy,  
calc, sli slty i/p, com dissem pyr  
com carb spk, abd foss, com ooid,  
frm-mod hd, blk-sbbkly.



CLAYSTONE:pl olv gy,m olv gy-dk  
olv gy,com dissem pyr,occ carb &  
glauc incl,abd foss frag,frm-mod  
hd,sbbiky-blky.

CLAYSTONE:lt olv gy-lt gy,med lt  
gy,l/p,occ ooid,tr foss frag,t  
dissem pyr,sft blky.



CLAYSTONE: med lt gy-med gy, occ

gn gy, calc, tr loc com ooid, tr

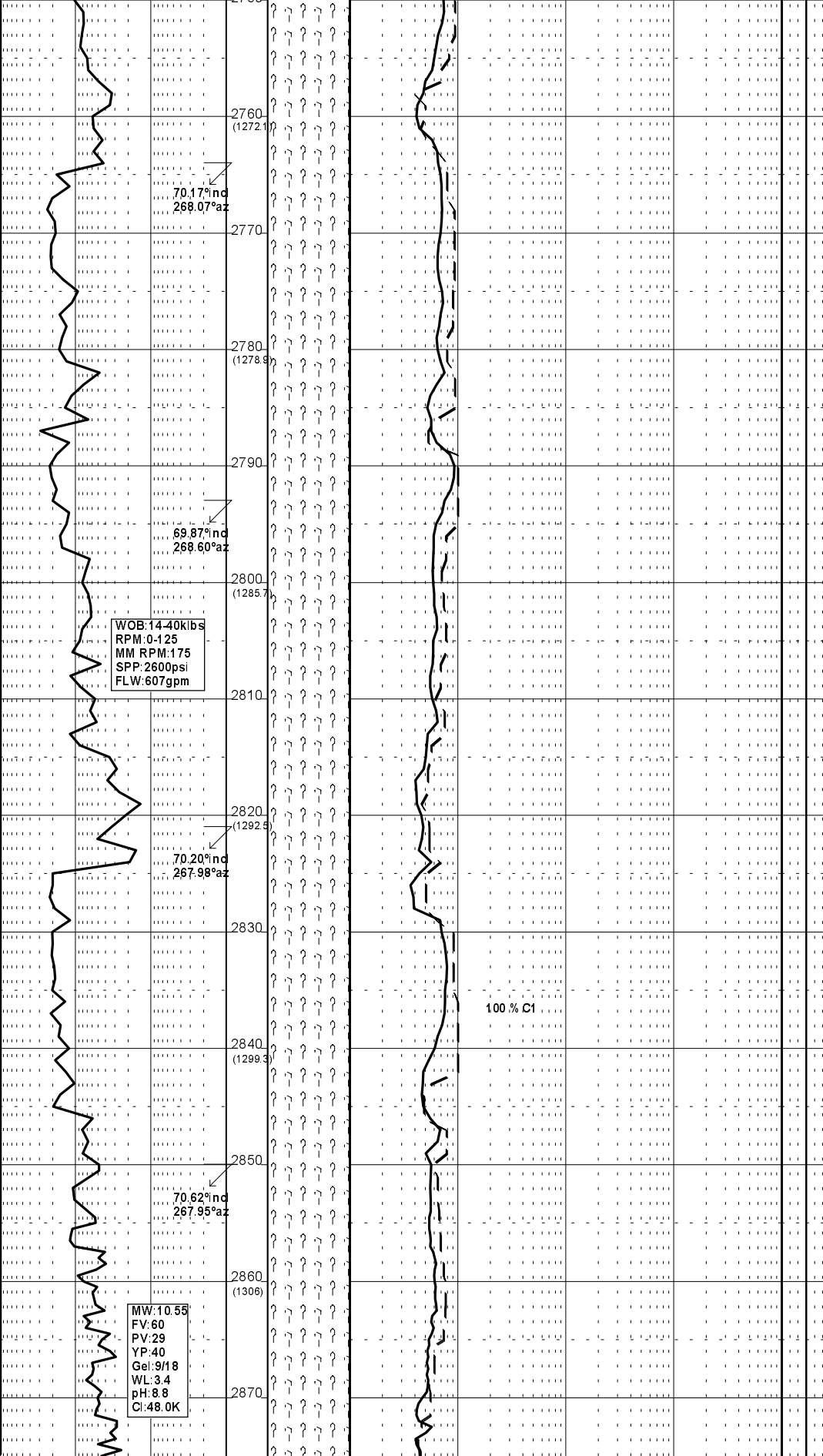
dissem pyr, tr dissem glauc,

silty i/p, frm, com sft, sbbkly.

CLAYSTONE: med lt gy-med gy,

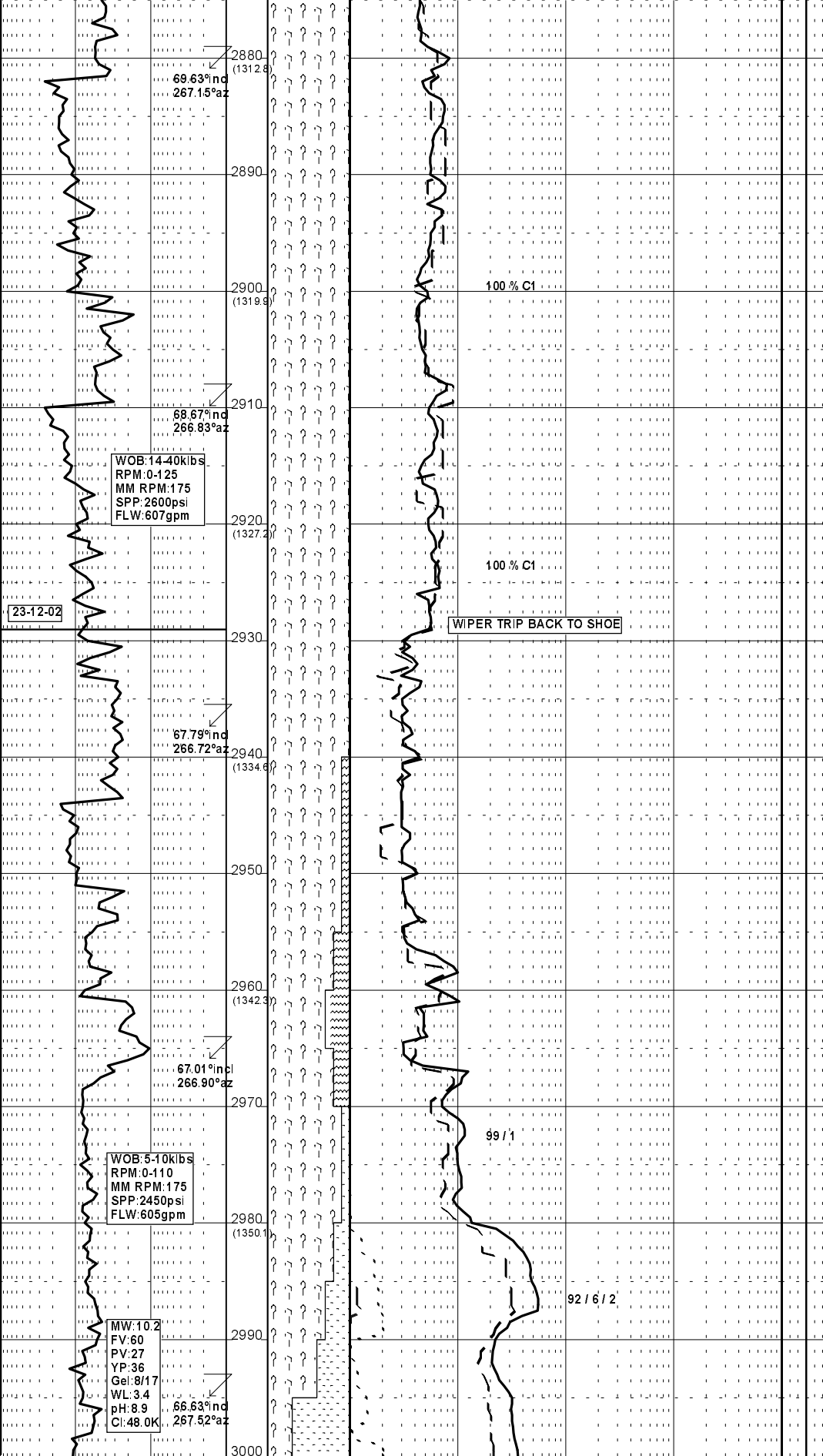
calc, occ ooid, occ dissem pyr,

occ dissem glauc, sft-frm, blkly.



CLAYSTONE: lt gy bn, gn gy, med  
lt gy, calc, mn, mod pyr, mn ooid,  
mn slty i/p, sft-fr, sbblky-  
blky.

CLAYSTONE: lt olv gy-m olv gy, dk  
olv gy i/p, rr gy bn, rr gy gn, com  
dissem pyr, com foss, frm, sbblky-  
blky.



CLAYSTONE: m olv gy-dk olv gy, lt  
olv gy i/p, sli slty i/p, com  
dissem pyr, com carb spk, com foss  
frm-mod hd, blkly-sbbkly.

CLAYSTONE: lt olv gy-dk olv gy, pl  
gy i/p, gy bn i/p, sli slty i/p,  
com dissem pyr, frm-mod hd, sft  
i/p, sbbkly-blky.

2929m-3257m: GAS READINGS  
SUPPRESSED DUE TO SUSPECTED  
PARTIAL GAS LINE BLOCKAGE,  
CONFIRMED AT TOTAL DEPTH

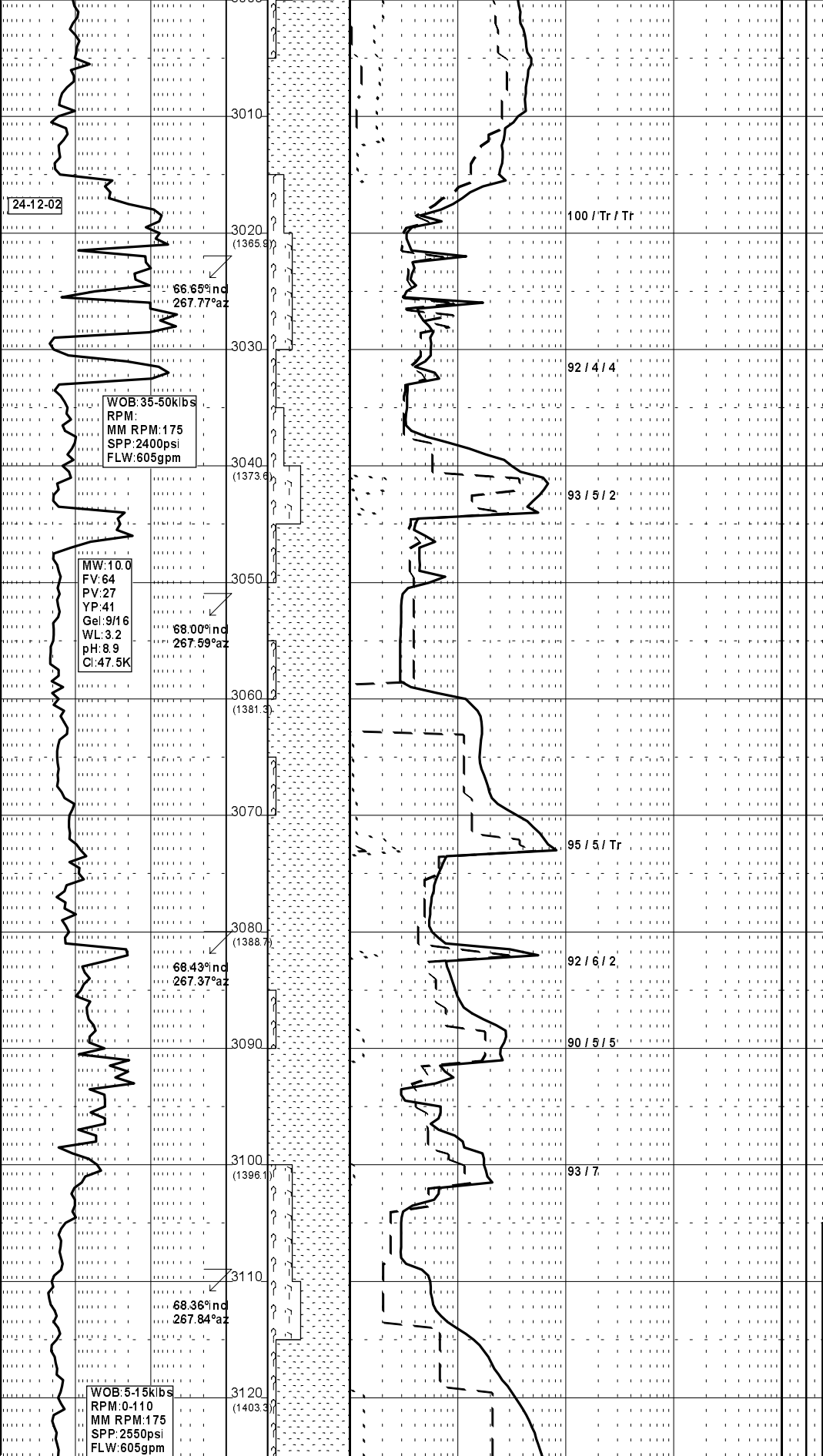
CLAYSTONE: med-dk olv gy, pl gy  
i/p, rr gy gn, com dissem pyr, com  
foss, frm-mod hd, hd i/p, sbbkly-  
bkly.

SILTSTONE: lt-med bn, gysh org i/p  
com arg mtk, g/t vf SS i/p, occ  
nod pyr, mnr carb spk, sft, amor-  
sbbkly.

CLAYSTONE: gy org, pl yel org, pl  
bn, lt bn, mott, mod aren-slty, g/t  
vf SS i/p, com pl gn glauc, tr  
carb mat, sft disp, amor.

SANDSTONE: clr, pred f-med, occ crs  
mod srt, sr, wk sil cmt, tr pyr cmt  
com arg mtk, lse, v pr-pr inf por,  
no fluor.

CLAYSTONE: gy org, pl-lt bn, occ  
yel org, wh i/p, mott, v aren-slty,  
loc g/t SS, occ-com dissem pyr,  
sft rr hd, disp, amor, sbbkly.



SANDSTONE: cl-trnsl, occ mky, i/p

frstd, f-crs, pr-mod srt, sa-sr, wk

sil cmt, tr pyr, incl, cln, lse, pr

inf por, no fluor.

CLAYSTONE: lt-med gy, lt bn gy, lt

olv gy, mnr slty, frm, sbblky-blky

SLIDING TO BUILD ANGLE

GAS READINGS SUPPRESSED DUE TO SUSPECTED PARTIAL GAS LINE BLOCKAGE, CONFIRMED AT TD

SANDSTONE: cl-trnsl, pred med, occ

crs, rr v crs, wl srt, sa i/p, pr

cmt, tr arg mbx, lse, v gd inf por,

no fluor.

CLAYSTONE: pl olv gy-med olv gy,

bn gy i/p, com disse pyr, rr carb

spk, pred mod hd, hd-v hd i/p, blk

-sbbkly.

SANDSTONE: cl-trnsl, vf-med, rr

crs, sr-rnd, occ sr-sa, pr srt, pr

cmt, cln, lse, gd-v gd inf por, no

fluor.

SANDSTONE: cl-trnsl, f-crs, rr v

crs, pr srt, sr-sa, pr cmt, mnrg

mbx, lse, fr inf por, no fluor.

CLAYSTONE: pl gy-olv gy, lt bn i/p

micmic, com disse pyr, pred sft-

stky, mod hd i/p, occ carb spk,

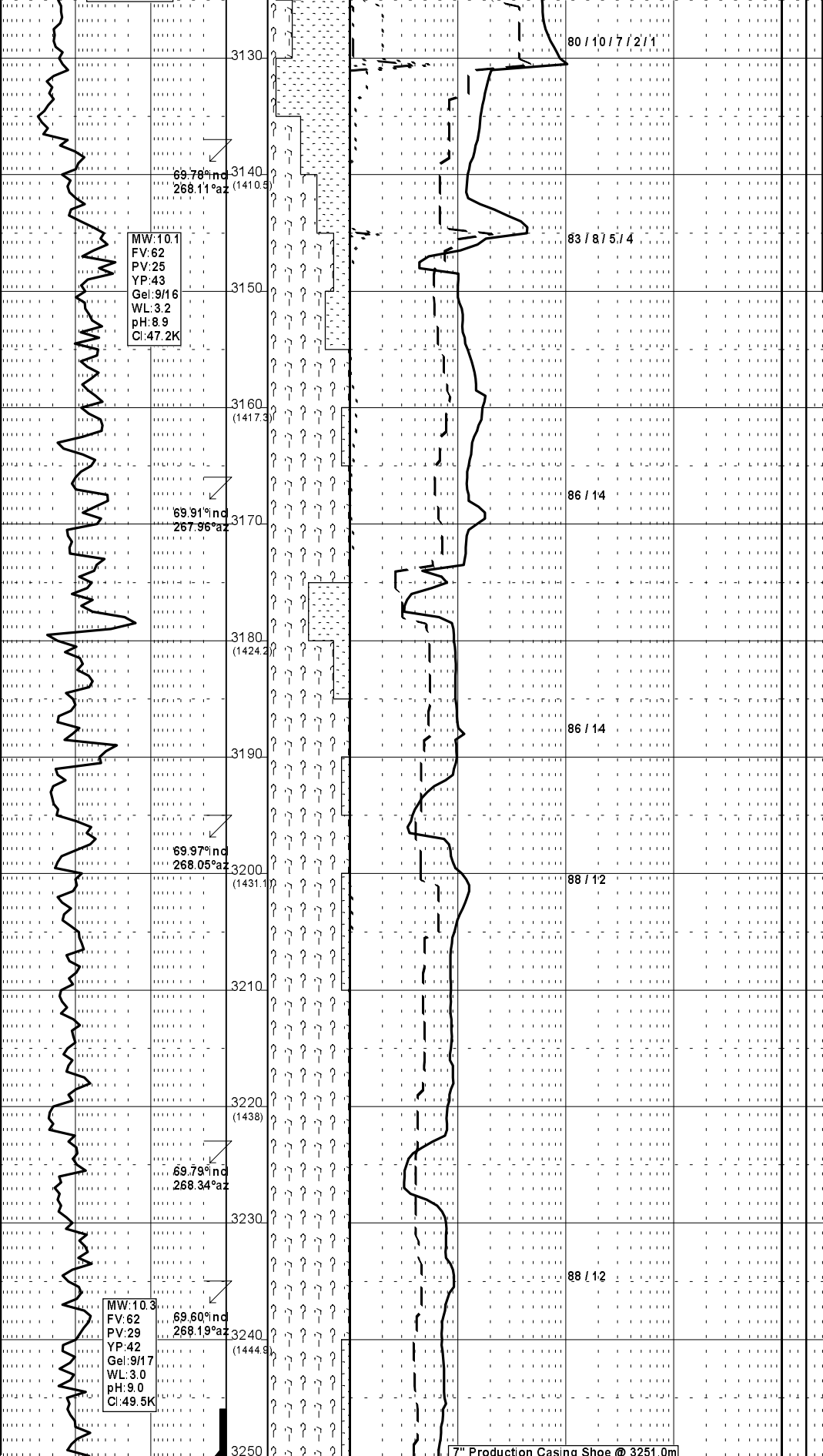
amor-sbfiss.

SANDSTONE: cl-trnsl, f-med, occ

crs, mod srt, rnd-sr, occ sa, pr cmt

cln, lse, gd inf por.





FLUOR: 3105m-3155m; Tr-10%  
dll yel-mod bri ppnt, slw wk  
strmng cut, mod fst c/c, thn  
r/r.

CLAYSTONE: lt bn-lt olv gy, pl gy-  
med gy i/p, micmic, com carb spk,  
sft-stky, amor.

SANDSTONE: clr-trnsl, pred f-med,  
occ crs, mod srt, sr, occ sr-sa, pr  
cmt, mnr arg mtx, lse, fr inf por,  
no fluor.

CLAYSTONE: lt bn, mod bn i/p, lt-m  
med gy i/p, carb i/p, micmic, com  
carb spk, sli disp-sft, stky i/p,  
amor.

SANDSTONE: clr-trnsl, frstd, opq,  
f-med, rr crs-v crs, mod srt, sa-  
ang, wk sil cmt, tr pyr cmt, cin,  
lse, fr inf por, no fluor.

