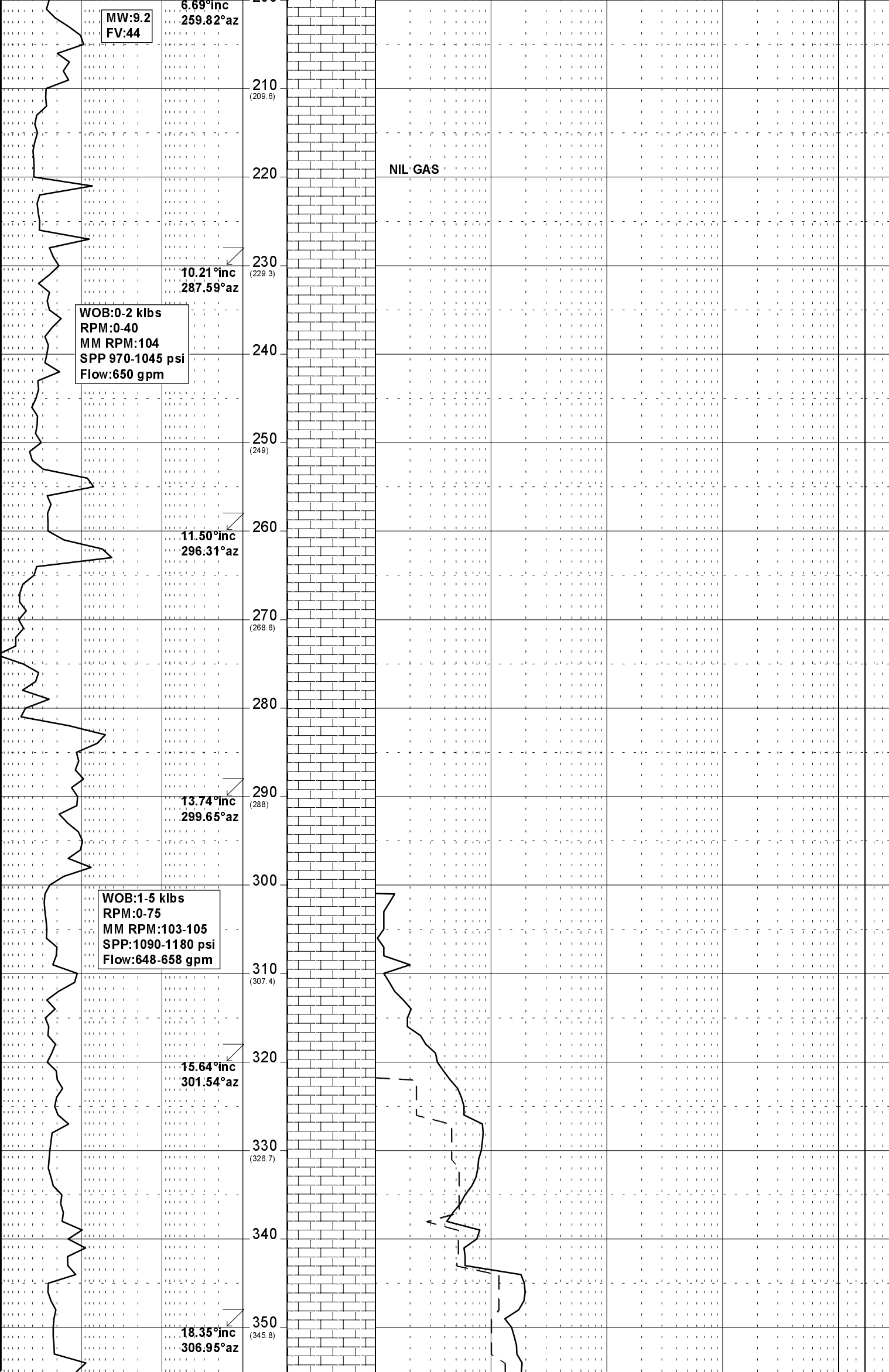




GENERAL		POSITION		HOLE / CASING INFO		DATE / DEPTH		ENGINEERS									
Country : AUSTRALIA Permit : VIC L4 Field : West Tuna Basin : Gippsland Well Type : Development Rig Name : ISDL 453		Local Co-ord X : 4.5 mW Local Co-ord Y : 9.0 mS AMG Co-ord X : 621485.8 mE AMG Co-ord Y : 5771790.8 mN RT to MSL : 34.69m RT to Sea Bed : 95.69m		12-1/4" Hole to 833m 8-1/2" Hole to 3261m  20" Conductor @ 168m 9-5/8" Shoe @ 830m 7" Shoe @ 3261m		Spud Date : 01-07-2001 Total Depth Date : 14-07-2001 Total Depth : 3261m True Vertical Depth : 1460m Log Scale : 1/ 500 Depth From (m): 150    To: 210		Gedeon Doczy Patrick Misquitta Mark Smith Matt Boyd									
ABBREVIATIONS				LITHOLOGY LEGEND				ENGINEERING LEGEND									
MW	Mud Weight	WOB	Weight on Bit (klbs)		CLAYSTONE		MARL		FOSSILS		CARB FRAGMENT		CASING SHOE		WIRELINE LOGS		
FV	Funnel Viscosity	RPM	Rotations Per Min		SILTSTONE		LIMESTONE		SHELL FRAGMENT		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)		RR		CHERT		CORALS		GLAUCONITE		DEVIA. SURVEY		SAMPLE		
Gel	Gel Strength	TG	Trip Gas		CG		CONGLOMERATE		FORAMINIFERA		PYRITE		SWC UNRECOV		SEAL FAILURE		
KCI	Potassium Chloride	BG	Background Gas		DGP		COAL		LITHIC FRAGMENT		CEMENT		SIDEWALL CORE		TIGHT		
CI	Chlorides	MM	Mud Motor		SHALE								CORE				
Incl	Inclination																
Az	Azimuth																
RATE OF PENETRATION		DEPTH (m) (TVD)		CUTTINGS LITHOLOGY		TOTAL GAS & CHROMATOGRAPH DATA						DIRECT FLUOR		CALCIMETRY		LITHOLOGICAL DESCRIPTIONS and REMARKS	
metres/hour				%		C1 — — C2 - - - - C3 — - - iC4 — — nC4 - - - - iC5 — - - nC5 — — TG — — <div>Total Gas in Units Chromatograph in Percent</div>						CUT FLUOR		% CALCITE DOLOMITE			
500     50       5      .5		0          100		.5           5           50           500          5K								good poor good poor good poor		0          100			
		150															
		160															
01-07-2001		170 (169.8)				20" Conductor Set @ 168 metres										WEST TUNA W-21 SPUDED @ 13:00 HRS ON 01-07-2001	
Bit #1: 12.25" Reed Hycalog DS195 Jets:5x16 In:168m Out:833m Run:665m Hrs:15.7 Cond:0-1-CT-G-X-I-NO-TC		180														CALCARENITE:lt gy-lt olv gy, med-cr.s.abdt foss,shell frags com,tr glauc,gd inf por,no fluor.	
		190 (189.7)															
		200															

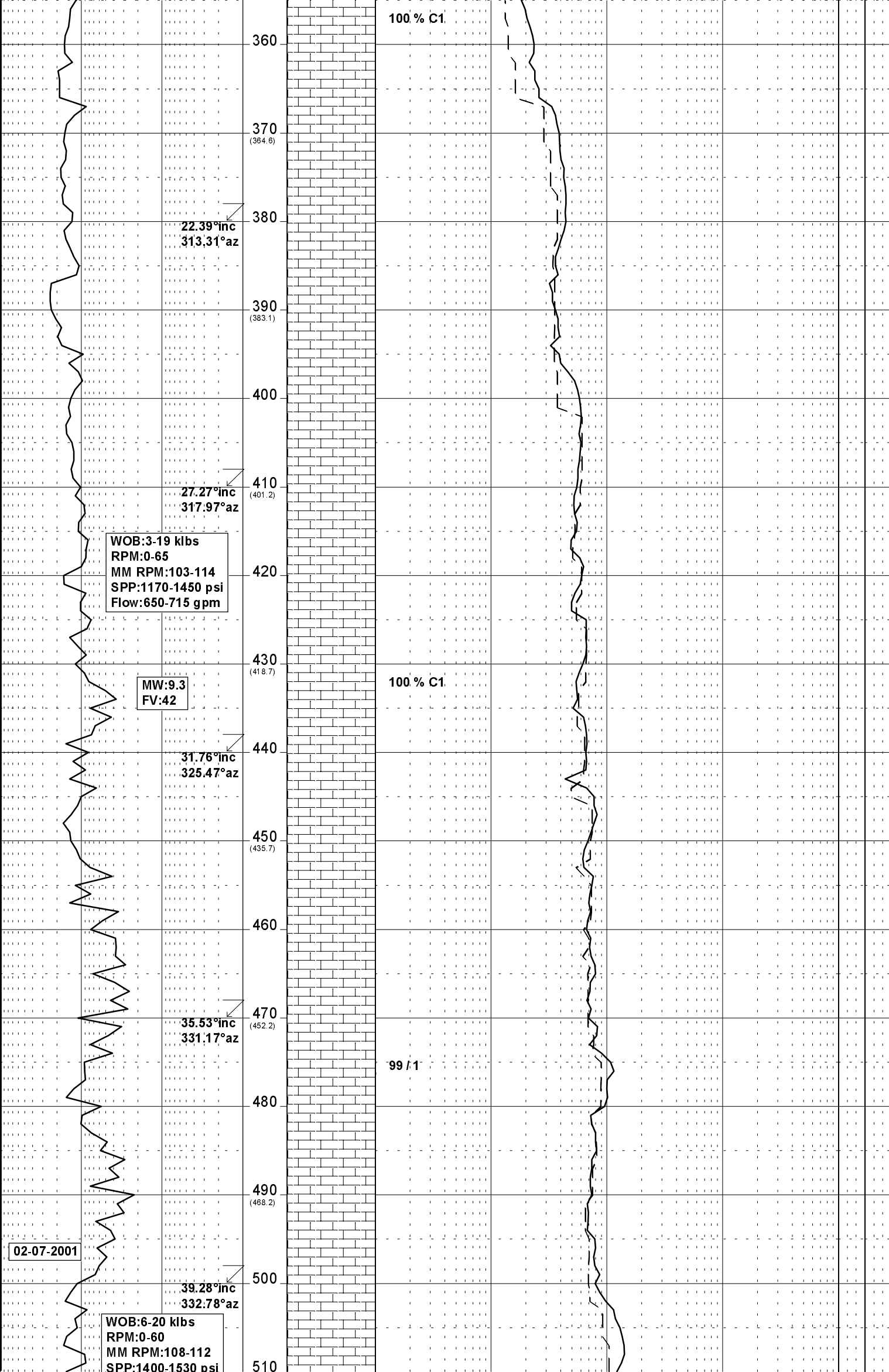


CALCARENITE:lt gy-lt olv gy,  
med,arg,com foss,com foss frags,  
fri,fr-gd inf por,no fluor.

No H2S or CO2 Detected

CALCARENITE:lt gy,tr med dk gy,  
med-crs,arg i/p,tr foss,mod hd,  
fri,fr vis por,no fluor.

CALCARENITE:lt gy-lt olv gy,vf-  
med,pred f,mnr foss,abdt glauc,  
fri-mod hd,fr vis por,no fluor.



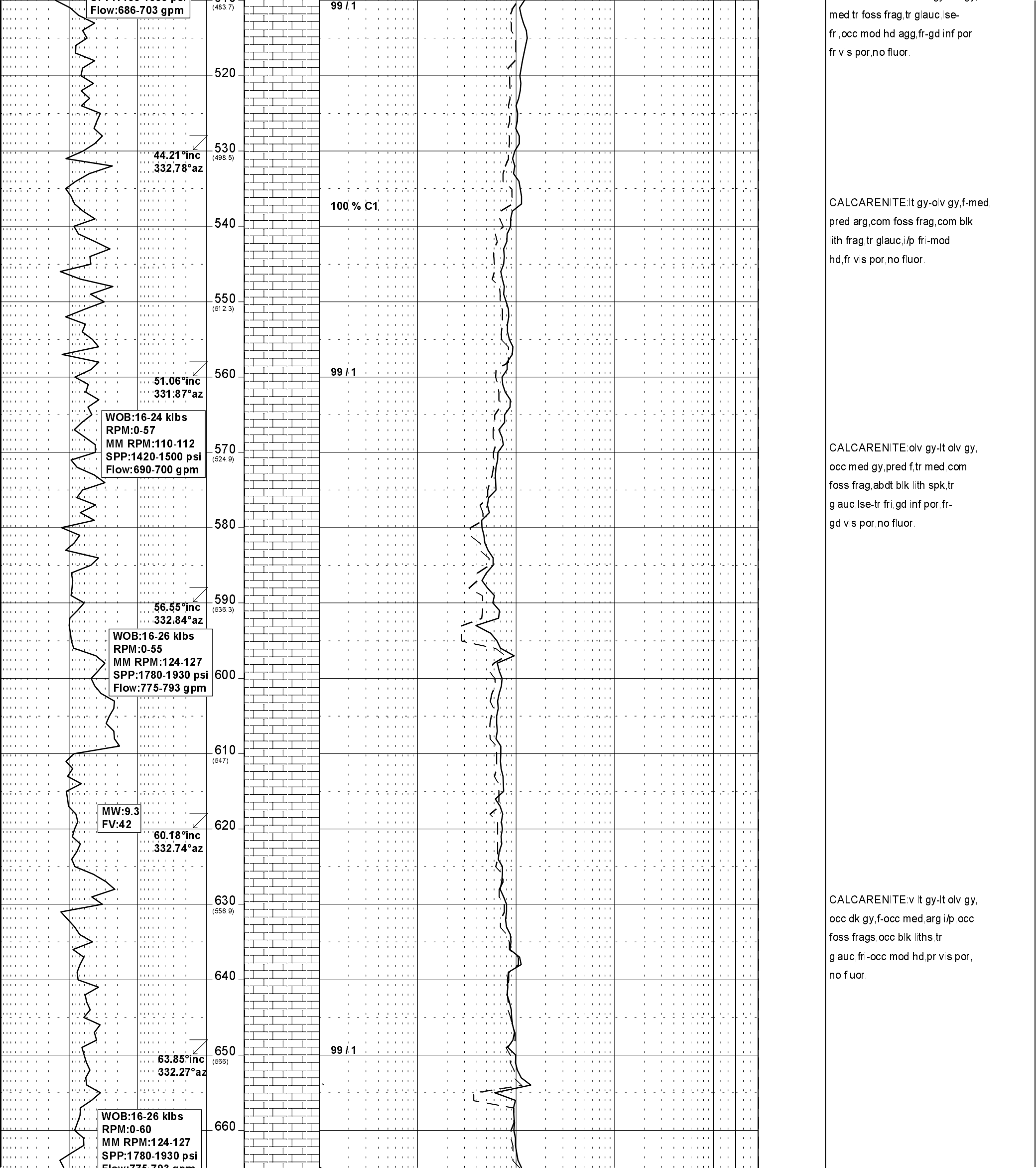
CALCARENITE: med lt gy-lt olv gy,  
f-med, pred arg, tr foss frag, abdt  
blk lith frag, abdt f-med mod cmt  
agg, pr-fr vis por, no fluor.

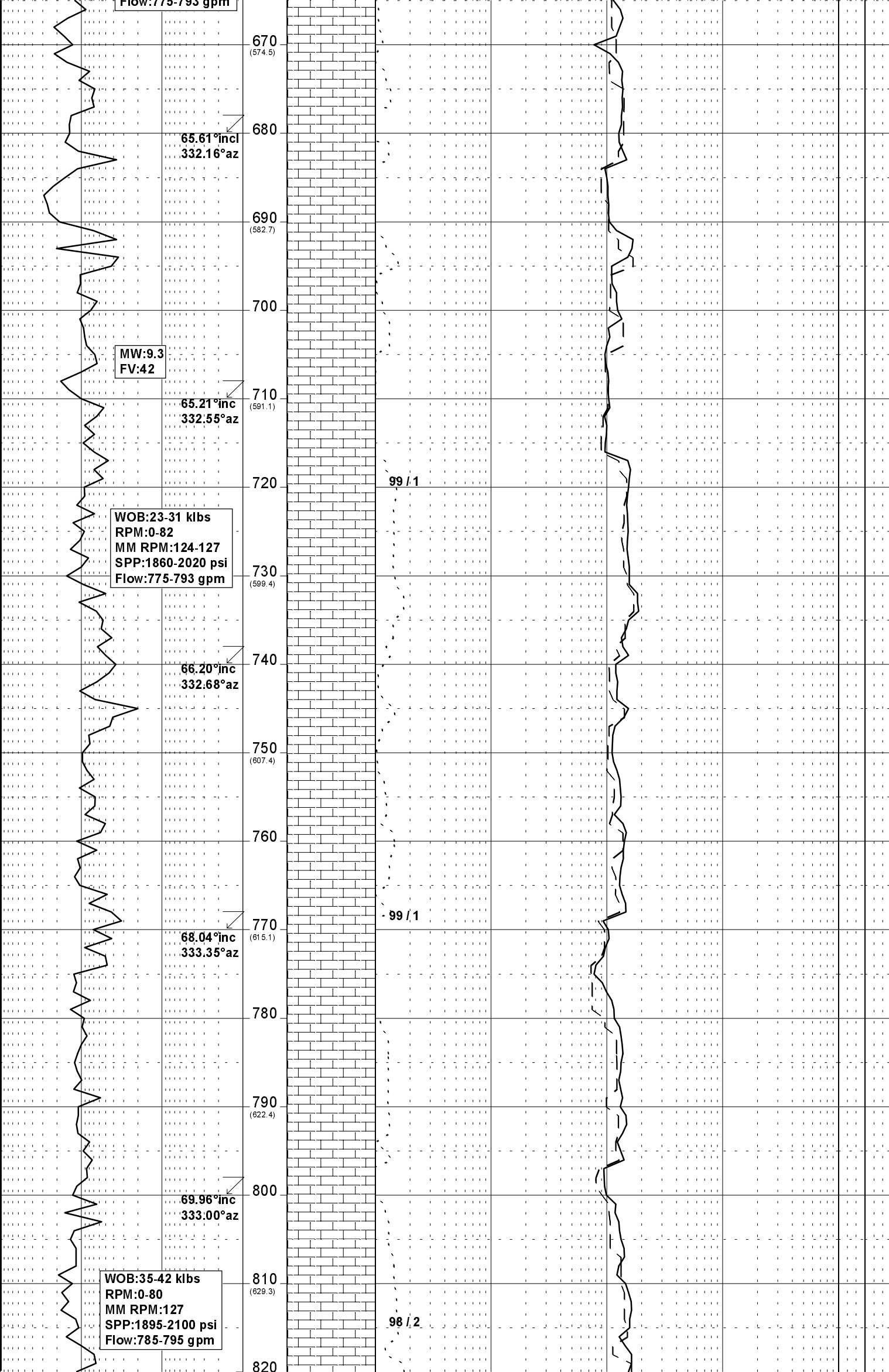
CALCISILTITE: med gy-med lt gy,  
tr aren, tr ooid, mod hd, occ frm  
i/p, sbblky.

CALCARENITE: med lt gy-lt olv gy,  
vf, tr f-med, arg i/p, tr lith frag  
tr foss frag, tr glauc, pr vis por  
no fluor.

CALCARENITE: lt olv gy-olv gy,  
med gy i/p, tr v lt gy, f-med,  
tr shell frag, abdt blk lith spk,  
tr glauc, fri-mod hd, fr vis por,  
no fluor.

CALCARENITE: lt olv gy-olv gy, f-





CALCARENITE:lt gy,lt olv gy,gnsh  
gy,occ med dk gy,f-occ med,occ  
crs,arg i/p,rr carb spk,tr  
glauc,occ foss frag,fri,pr vis  
por,no fluor.

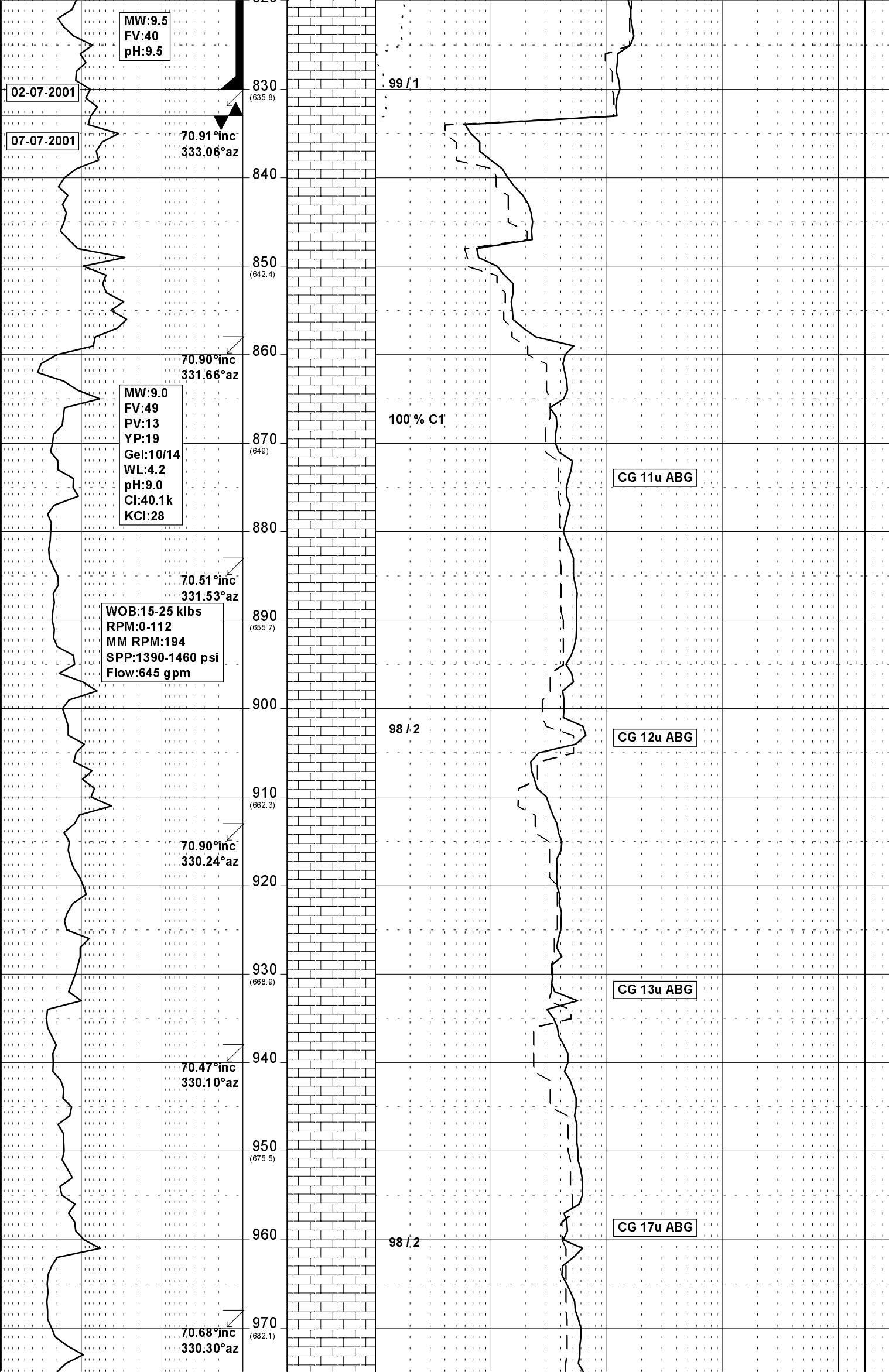
CALCARENITE:lt gy,lt olv gy,gnsh  
gy,f-rr med,occ carb spk,tr  
glauc,occ foss frag,pr vis por,  
no fluor.

CALCISILTITE:lt gy,lt olv gy,  
gnsh gy,occ yelsh gy,g/t Cclar,  
vf-f,occ carb spk,tr glauc,occ  
foss frag,sft-occ frm,sbbiky.

TD of 12 1/4" HOLE  
833m MDRT, 635.9m TVDRT

9 5/8" CASING SET @ 830m

PRESSURE INTEGRITY TEST  
@ 830m, 400psi, 12.5ppg EMW



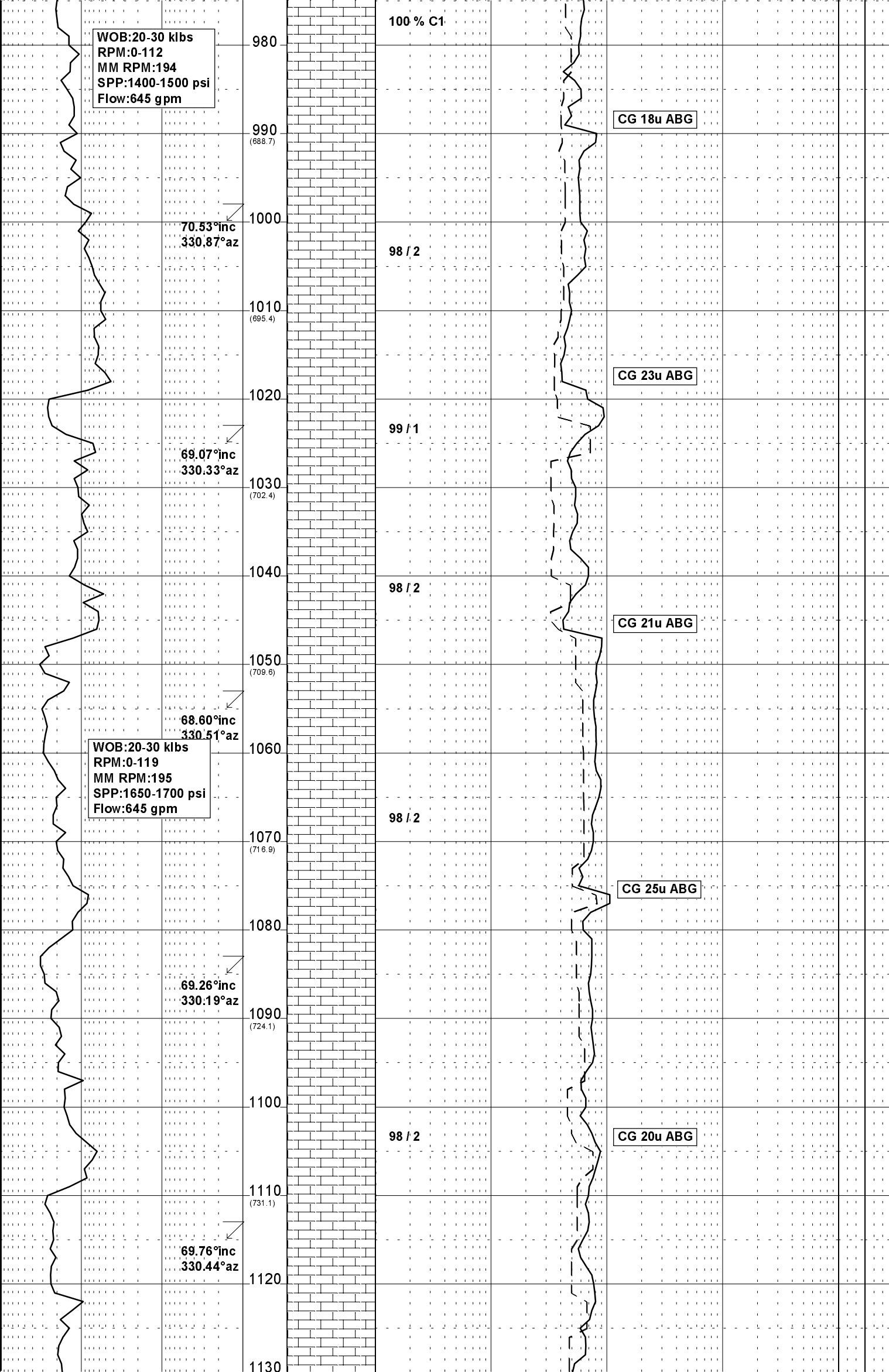
Bit #2: 8.5"  
Type:Geod S75BHPX  
Jets:7x14  
In:833m  
Out:3261m  
Run:2428m  
Hrs:55.85  
Cond:6-7-WT-A-X-I-CT-TD

CALCILUTITE:olv gy-med gy,v sft,  
sity i/p g/t clst,tr miccarb  
spk,v sft-sft,occ frm,pred  
amorph,occ sbbiky.

CALCILUTITE:lt olv gy,tr olv gy,  
tr sity g/t clst,arg,com  
miccarb spk,rr foram,v sft,  
tr frm-mod hd,amorph-sbbiky.

CALCILUTITE:pred lt olv gy-olv  
gy,sity g/t clst,v arg,tr mic-  
carb spk,tr foram,v sft-sft,occ  
frm,amorph-sbbiky.

CALCILUTITE:lt olv gy,tr olv gy,  
tr sity g/t clst,v arg,com  
miccarb spk,tr foram,v sft,tr  
frm-mod hd,amorph-sbbiky.



CALCILUTITE:pred lt olv gy-olv  
gy,v arg,sl slty g/t clslt,tr  
micrcarb spk,tr foram,v sft-sft,  
occ frm,amorph-sbbkly.

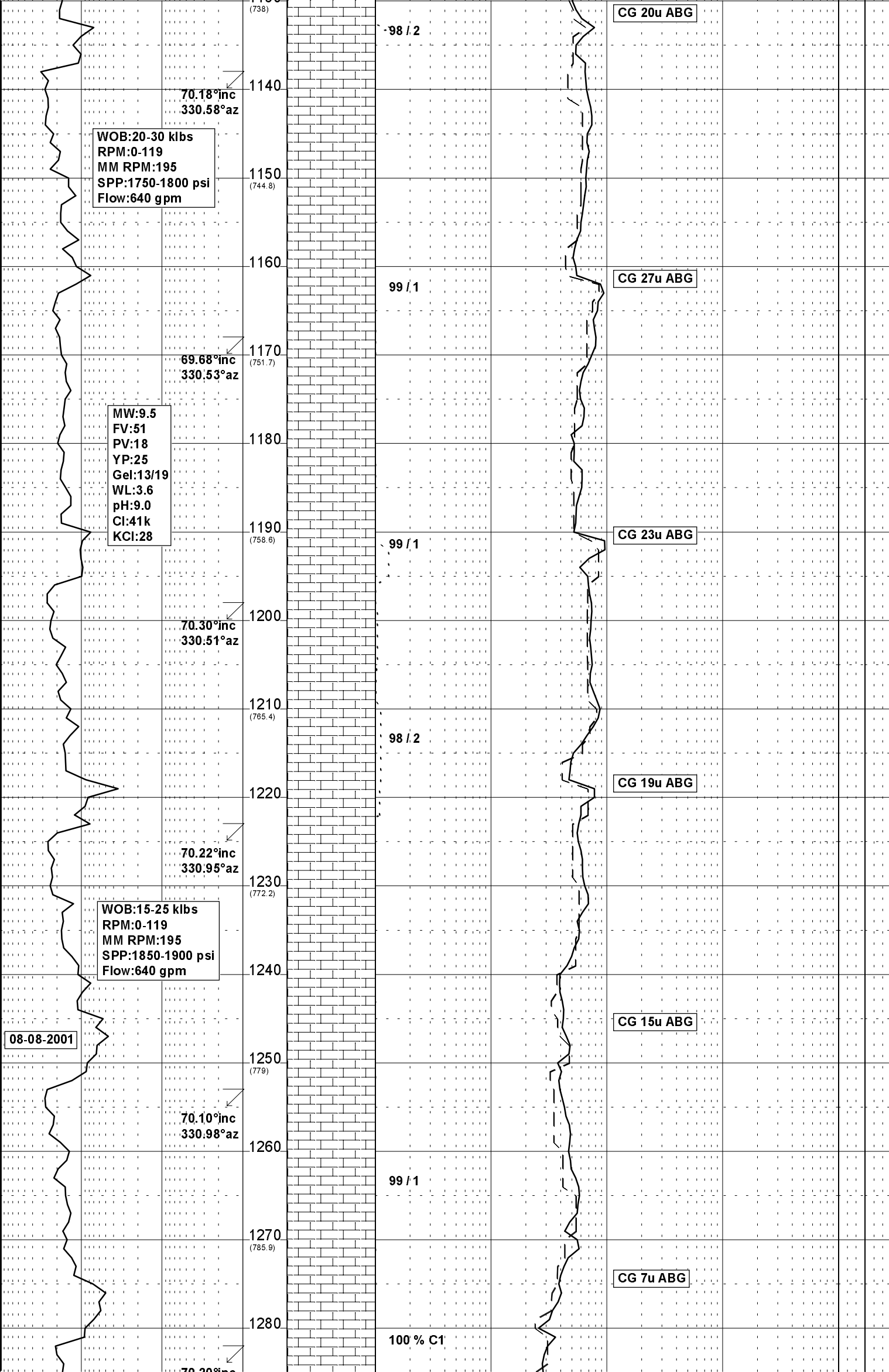
CALCILUTITE:lt olv gy-olv gy,  
v arg,slty i/p g/t clslt,tr-occ  
micrcarb spk,tr foram,tr ooid,  
tr-rr dissem & nod pyr,v sft-sft  
occ frm,amorph-sbbkly.

CALCILUTITE:lt olv gy-olv gy,  
slty g/t clslt,arg,loc mnrr f  
clear,rr foss frag,tr ooid,tr  
foram,tr dissem pyr,tr micrcarb  
spk,pred sft-frm,tr mod hd,  
sbbkly.

CALCILUTITE:lt olv gy-olv gy,  
slty g/t clslt,arg,tr f clear,  
tr-rr foss frag,tr dissem pyr,  
tr micrcarb spk,tr foram,sft-  
frm,sbbkly.

CALCILUTITE:olv gy,com med gy,  
v slty com g/t clslt,arg,occ-mnrr  
f clear,tr foss frag,tr dissem  
pyr,tr-rr micrxln calc,tr  
micrcarb spk,sft-frm,sbbkly.

CALCILUTITE:lt olv gy-olv gy,arg  
slty i/p g/t clslt,tr f clear,



tr disse pyr, tr micrxn calc,  
tr miccarb spk, sft-occ frm,  
sbbiky.

CALCILUTITE: lt olv gy-olv gy, v  
arg, slty i/p g/t clst, tr foram,  
tr foss frag, tr miccarb, sft-occ  
frm, amorph-dom sbbiky.

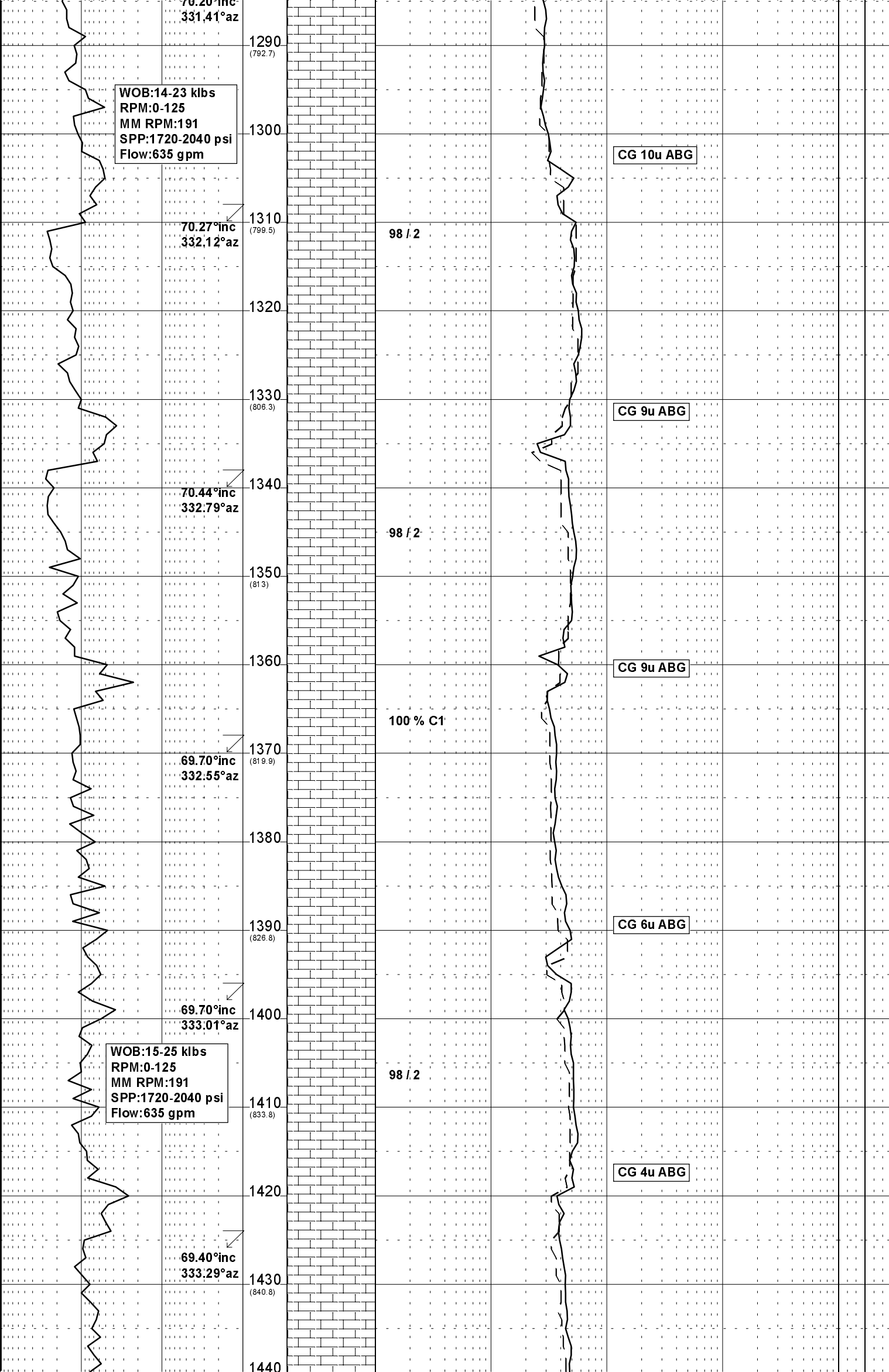
CALCILUTITE: lt olv gy-olv gy, v  
arg, sl slty, i/p g/t clst, tr  
dissem pyr, tr foram, tr foss frag  
sft-occ frm, amorph-dom sbbiky.

CALCILUTITE: lt olv gy-olv gy,  
slty, i/p g/t clst, arg, tr foram,  
tr foss frag, tr micrxn calc, tr  
miccarb spk, sft-occ frm, sbbiky

CALCILUTITE: lt olv gy-olv gy,  
slty, i/p g/t clst, v arg, tr foss  
frag, tr foram, tr ooid, tr dissem  
pyr, tr miccarb spk, sft-occ frm,  
amorph-dom sbbiky.

CALCILUTITE: lt olv gy-olv gy,  
slty, i/p g/t clst, v arg, tr foss  
frag, tr foram, tr ooid, tr micr-  
carb spk, sft-occ frm, sbbiky.





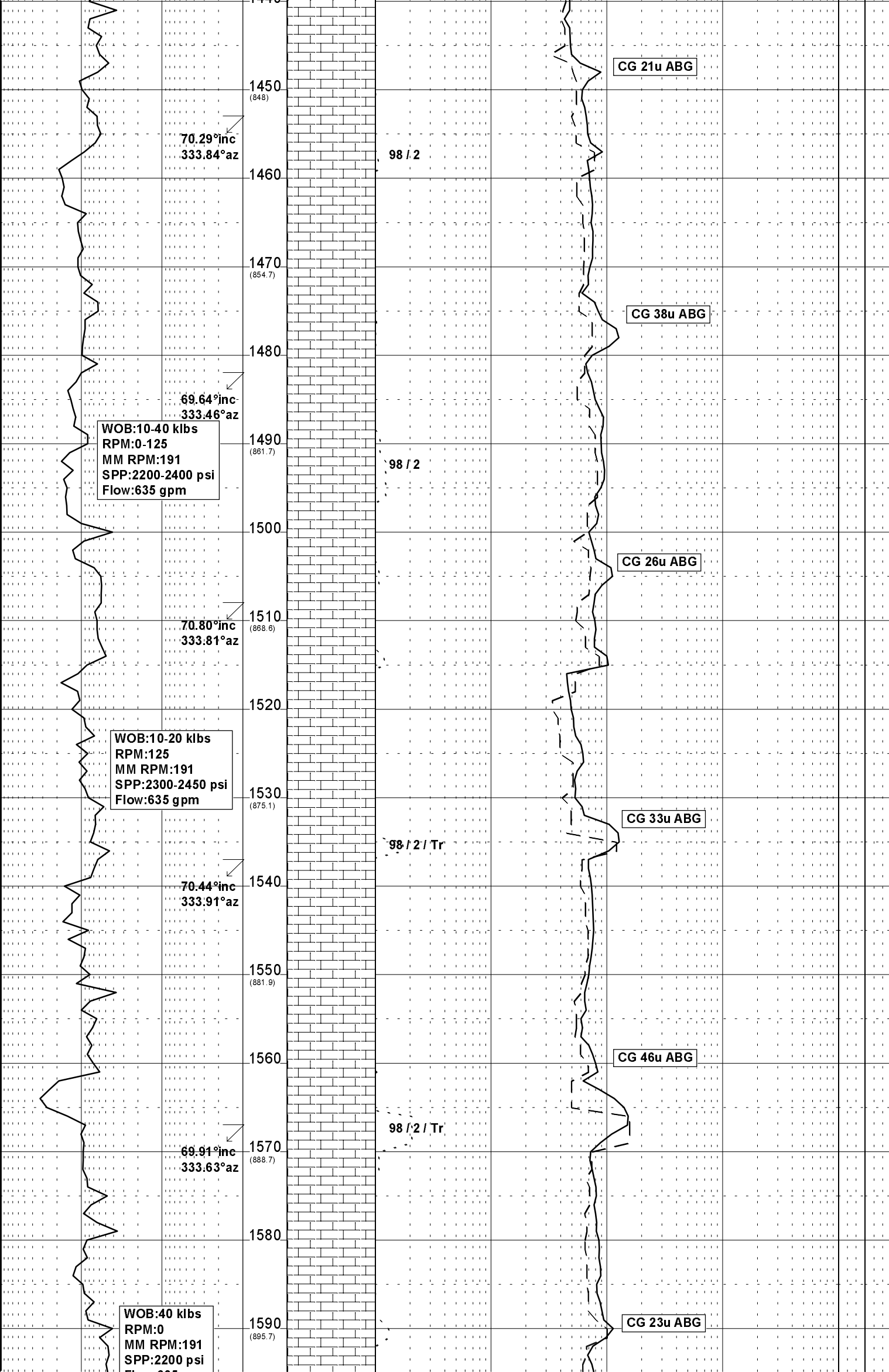
CALCILUTITE:lt olv gy-olv gy,tr  
sity g/t clsit,v arg, foss frag  
com,tr ooid,com micrcarb spk,  
pred sft,tr frm,sbblky

CALCILUTITE:lt olv gy-olv gy-  
med dk gy,arg,tr sity,g/t clsit  
i/p,tr calc gr,com ooid,tr  
micrcarb spk,tr pyr,sft-occ frm,  
pred amorph-sbblky i/p.

CALCILUTITE:lt olv gy,med gy,tr  
sity g/t clsit,v arg,tr calc grn  
tr foss frag,com ooid,tr  
micrcarb spk,tr pyr,sft-frm,pred  
amorph-sbblky.

CALCILUTITE:lt olv gy-olv gy-med  
lt gy,arg,tr sity,tr micrcarb  
spk,tr ooid,tr dissep pyr,sft-  
tr frm,pred amorph-sbblky.

CALCILUTITE:lt olv gy-olv gy,arg  
tr sity,g/t clsit i/p,tr ooid,tr  
foram,tr dissep pyr,tr micrcarb  
spk,sft-rr frm,amorph-sbblky.



CALCILUTITE:lt olv gy-olv gy,med  
gy,lt bn,arg,sity i/p,com-abdt  
micr LMST,com dissem pyr,tr ooid  
tr foram,tr micrcarb spk,pred  
sft,occ mod hd,sbblky-blky.

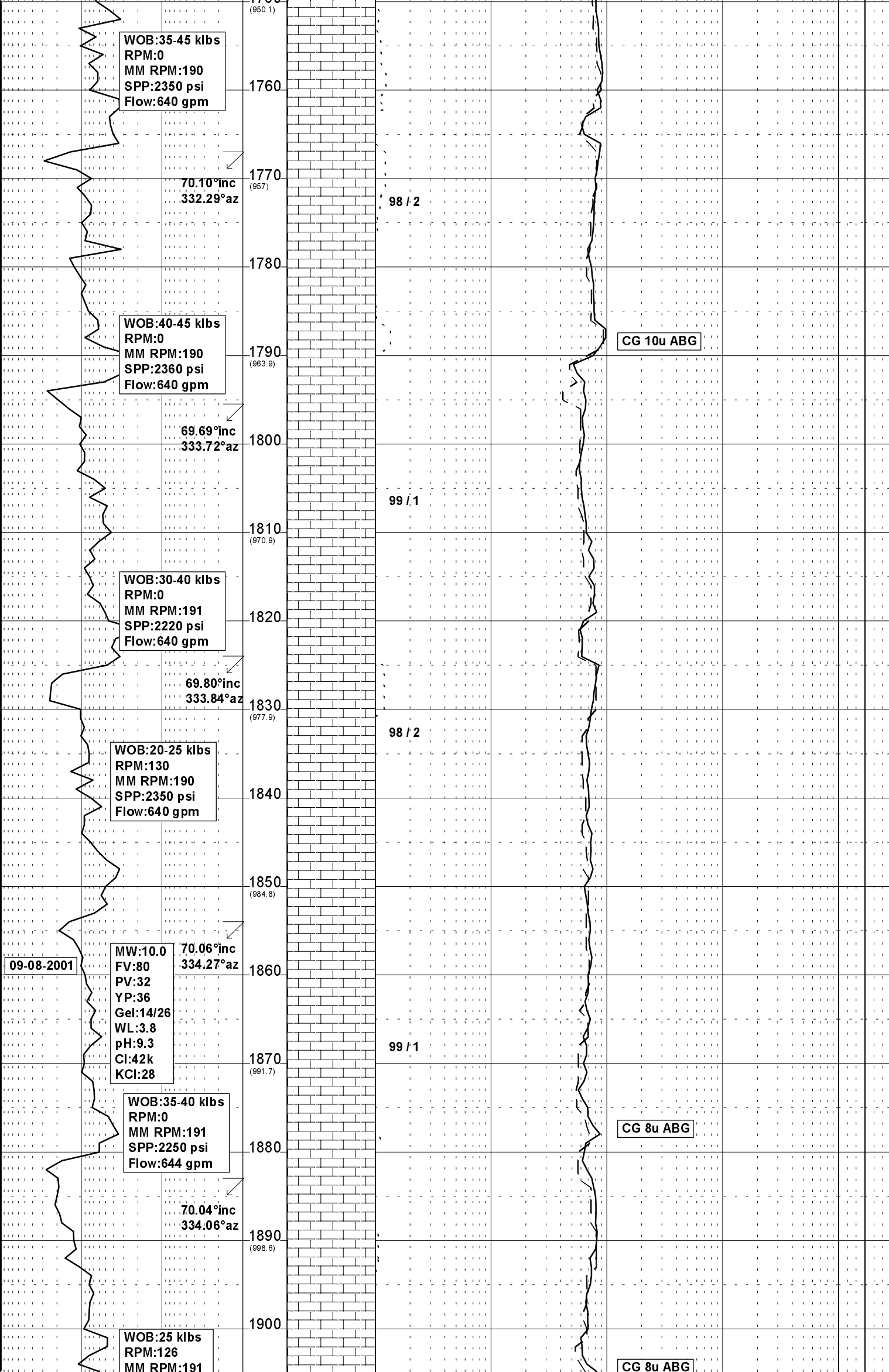
CALCILUTITE:lt olv gy-olv gy,v  
arg,sl sity,tr-occ dissem pyr,tr  
foram,tr micrcarb spk,sft,amorph  
-sbblky.

CALCILUTITE:lt olv gy-olv gy,arg  
tr f calc,loc tr micr,tr ooid,  
rr foss frag,tr pyr,v sft-sft,  
occ frm,amorph-sbblky.

CALCILUTITE:lt olv gy-olv gy,arg  
tr f calc,loc tr micr,rr foss  
frag,tr dissem pyr,v sft-sft,occ  
frm,amorph-sbblky.

CALCILUTITE:lt olv gy-olv gy,v  
arg,tr f calc,tr foss frag,tr  
dissem pyr,v sft-sft,pred  
amorph-sbblky i/p.





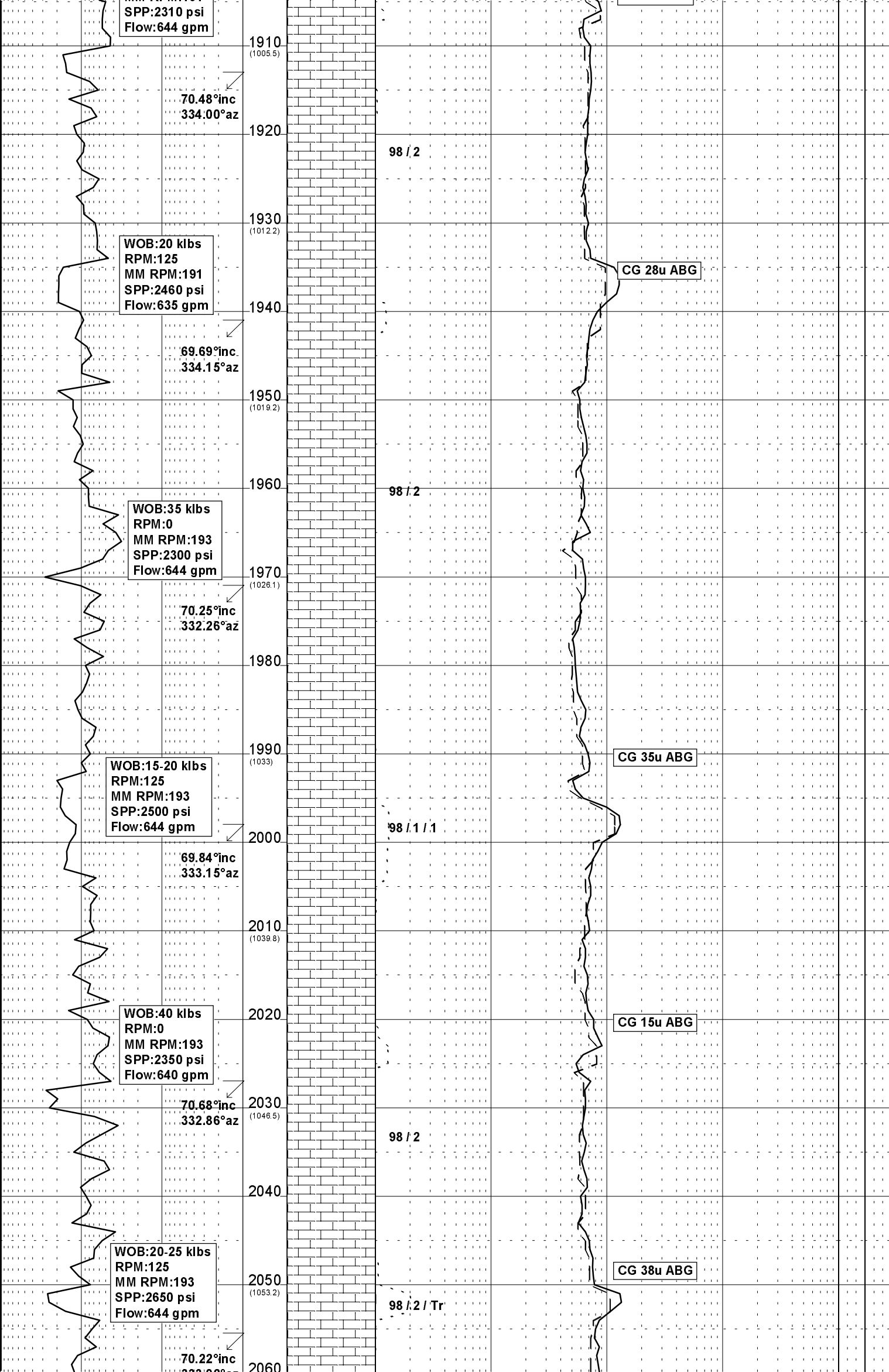
CALCILUTITE:lt olv gy-olv gy,arg  
rr f clear,rr nod pyr,tr foss  
frag,rr ooid,v sft-sft,amorph-  
sbbiky.

CALCILUTITE:lt olv gy-olv gy,arg  
rr nod pyr,sft-v sft,amorph,occ  
sbbiky.

CALCILUTITE:lt olv gy-olv gy i/p  
arg,tr nod pyr,rr foss frag,tr  
clear i/p,sft-occ frm,sbbiky,occ  
amorph.

CALCILUTITE:olv gy-lt olv gy,mnr  
med gy i/p,arg,tr nod pyr,rr  
dissem pyr,tr clear,sft-occ frm,  
sbbiky.

CALCILUTITE:olv gy-lt olv gy,  
arg,tr nod pyr,rr foss frag,sft-  
com frm,sbbiky-sbfiss i/p.



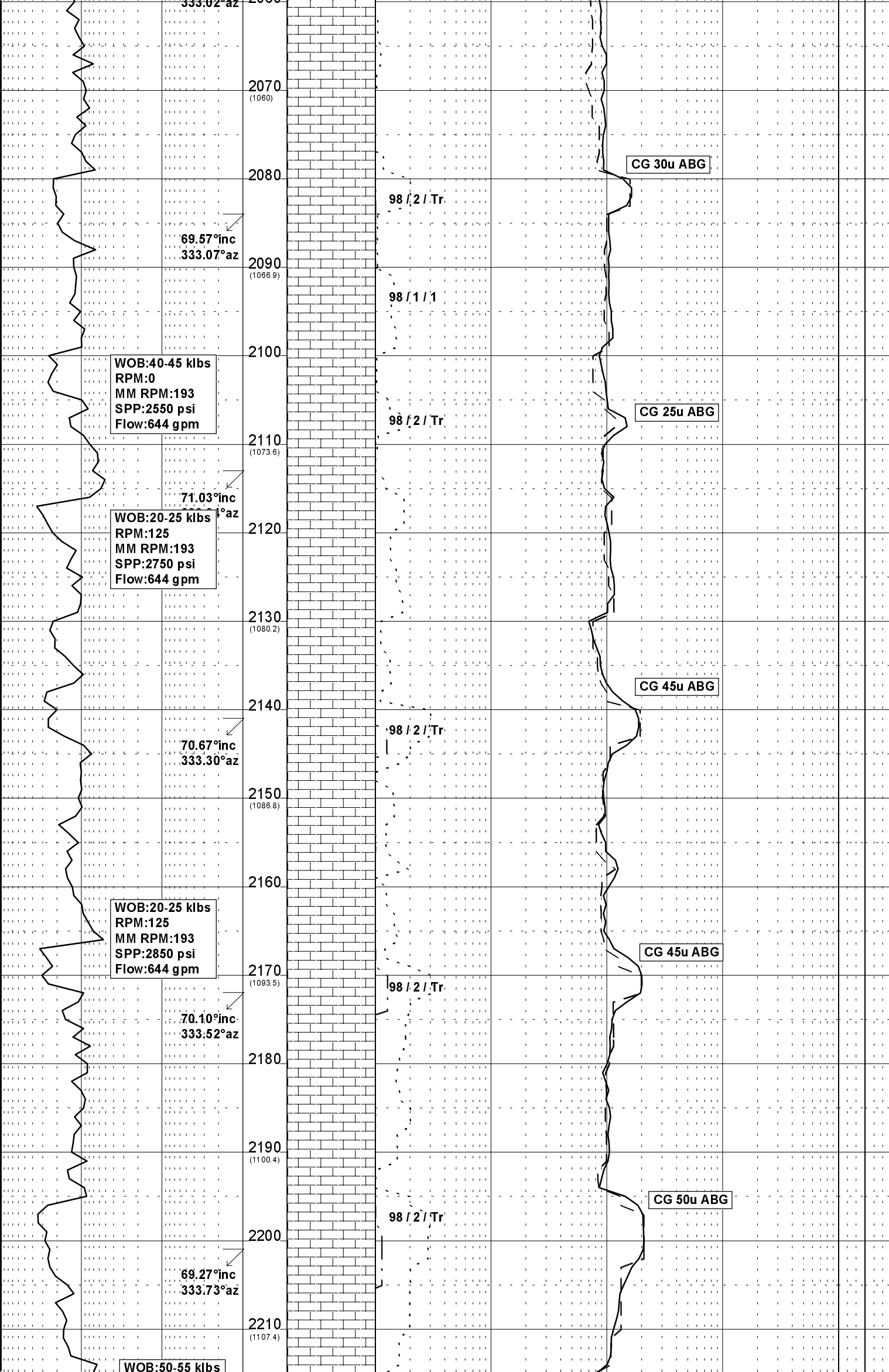
CALCILUTITE: olv gy-lt olv gy, arg  
tr ooid, tr xln calc i/p, sft-frm,  
sbbiky-sbfiss.

CALCILUTITE: lt olv gy-olv gy i/p  
rr med gy i/p, arg, rr foss frag,  
rr ooid, rr nod pyr, sft-com frm,  
sbbiky-occ sbfiss.

CALCILUTITE: pred olv gy, med dk  
gy, arg, tr f calc, tr nod pyr, tr  
foss frag, v sft-sft, amorph-  
sbbiky.

CALCILUTITE: olv gy, mnrr med dk gy  
arg, loc tr f calc, tr foss frag,  
tr nod pyr, sft, occ frm, amorph-  
sbbiky.

CALCILUTITE: olv gy, med dk gy i/p  
arg, tr nod pyr, loc tr f calc,  
sft, occ frm, amorph-sbbiky.



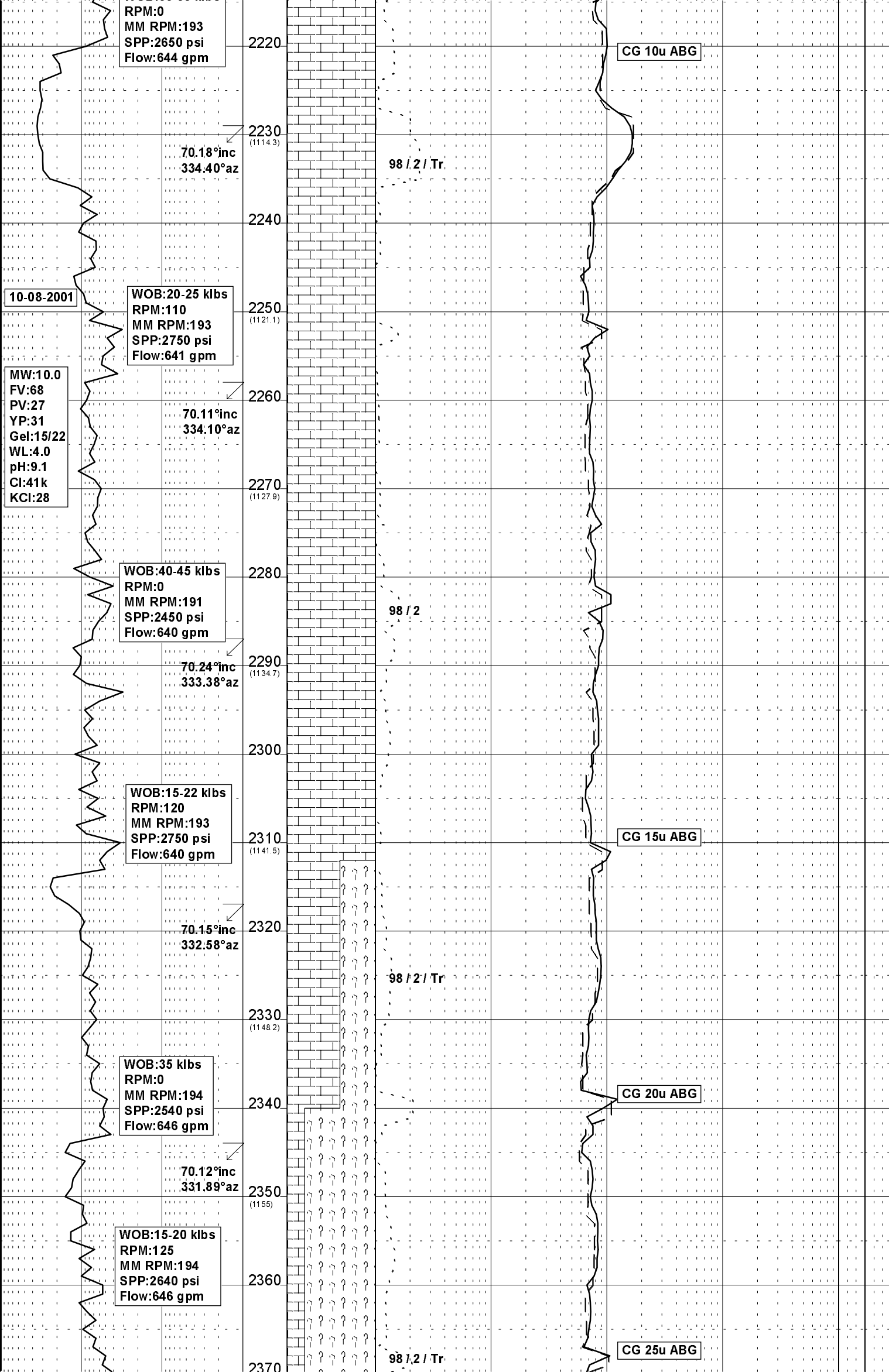
CALCILUTITE: olv gy, med dk gy i/p  
arg, loc tr f calc, loc tr nod pyr  
loc tr micrcarb spk, tr foss frag  
sft, occ frm, amorph-sbbiky.

CALCILUTITE: olv gy, med dk gy, arg  
tr f calc, tr nod pyr, tr foss  
frag, tr ooid, tr foram, sft, occ  
frm, sbbiky.

CALCILUTITE: olv gy, med dk gy, arg  
loc tr f calc, loc tr nod pyr, tr  
foss frag, tr ooid, tr foram, sft,  
occ frm, sbbiky-occ sbfiss.

CALCILUTITE: olv gy, med dk gy i/p  
arg, loc tr nod pyr, tr foss frag,  
tr ooid, tr foram, sft, rr frm,  
amorph-sbbiky.

CALCILUTITE: olv gy, med dk gy i/p  
arg, loc tr nod pyr, tr foss, tr  
ooid, sft, rr frm, amorph-sbbiky.



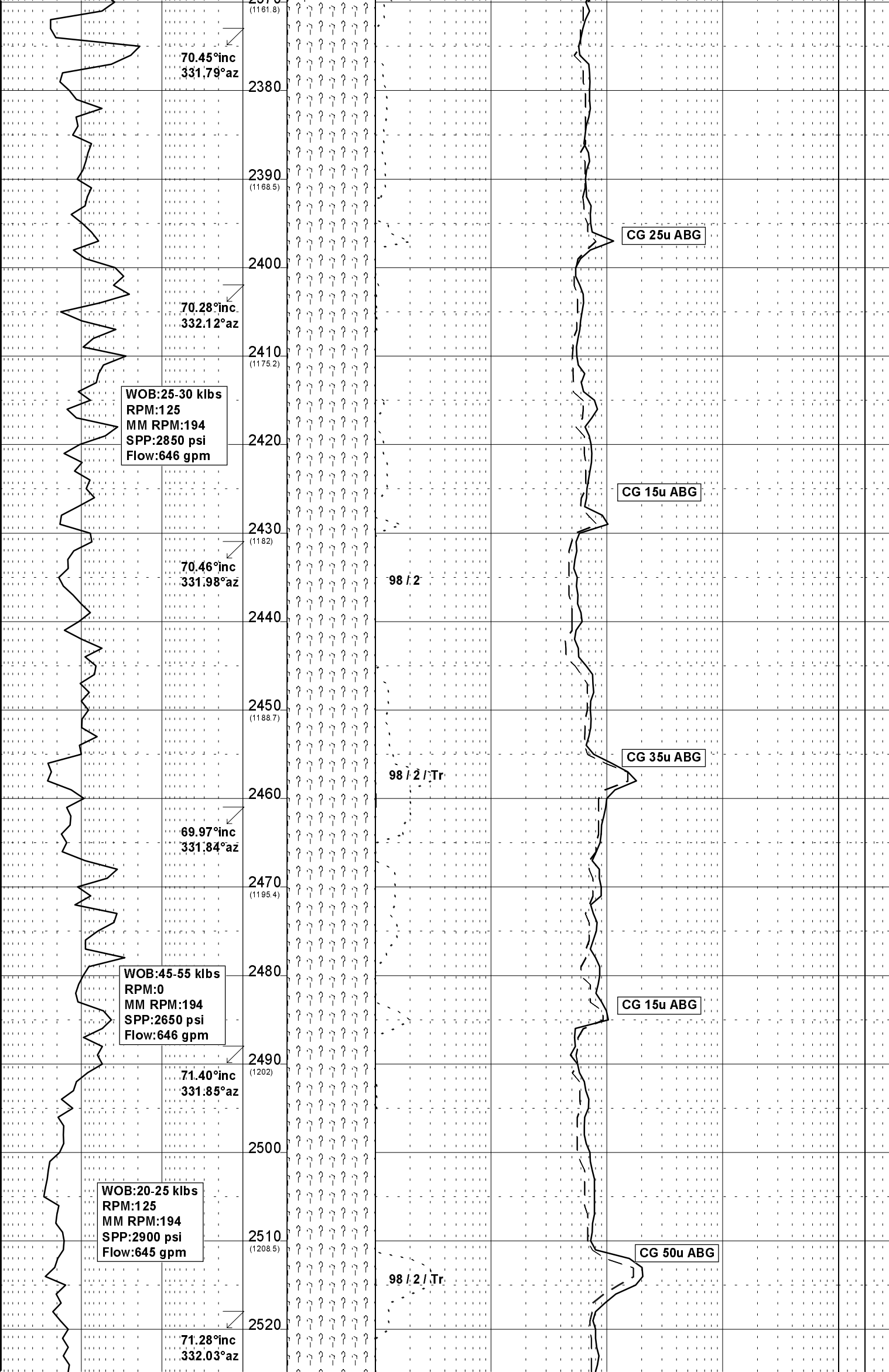
**GYRO SURVEY @ 2223m**

CALCULUTITE:lt olv gy,med gy i/p  
arg,tr nod pyr,tr ooid,tr glauc  
grn,sft-com frm,sbbiky.

CALCULUTITE:med gy-occ gn gy,lt  
olv gy i/p,tr slty i/p,rr nod  
pyr,rr ooid,tr foss,sft,com frm,  
sbbiky,occ sbfiss.

CLAYSTONE:med gy-lt olv gy,mod  
calc,mnr slty i/p,rr carb spk,  
sft-frm,sbbiky.

CLAYSTONE:lt bn gy-med lt gy,occ  
med gy,slty i/p,mod calc,mnr nod  
pyr,tr ooid,frm,occ mod hd,  
sbbiky.



CLAYSTONE:lt olv gy,med dk gy,  
mod calc,mnr dissem pyr,tr ooid,  
loc tr micmic i/p,loc tr glauc,  
sft-frm,sbbiky-loc tr sbfiss.

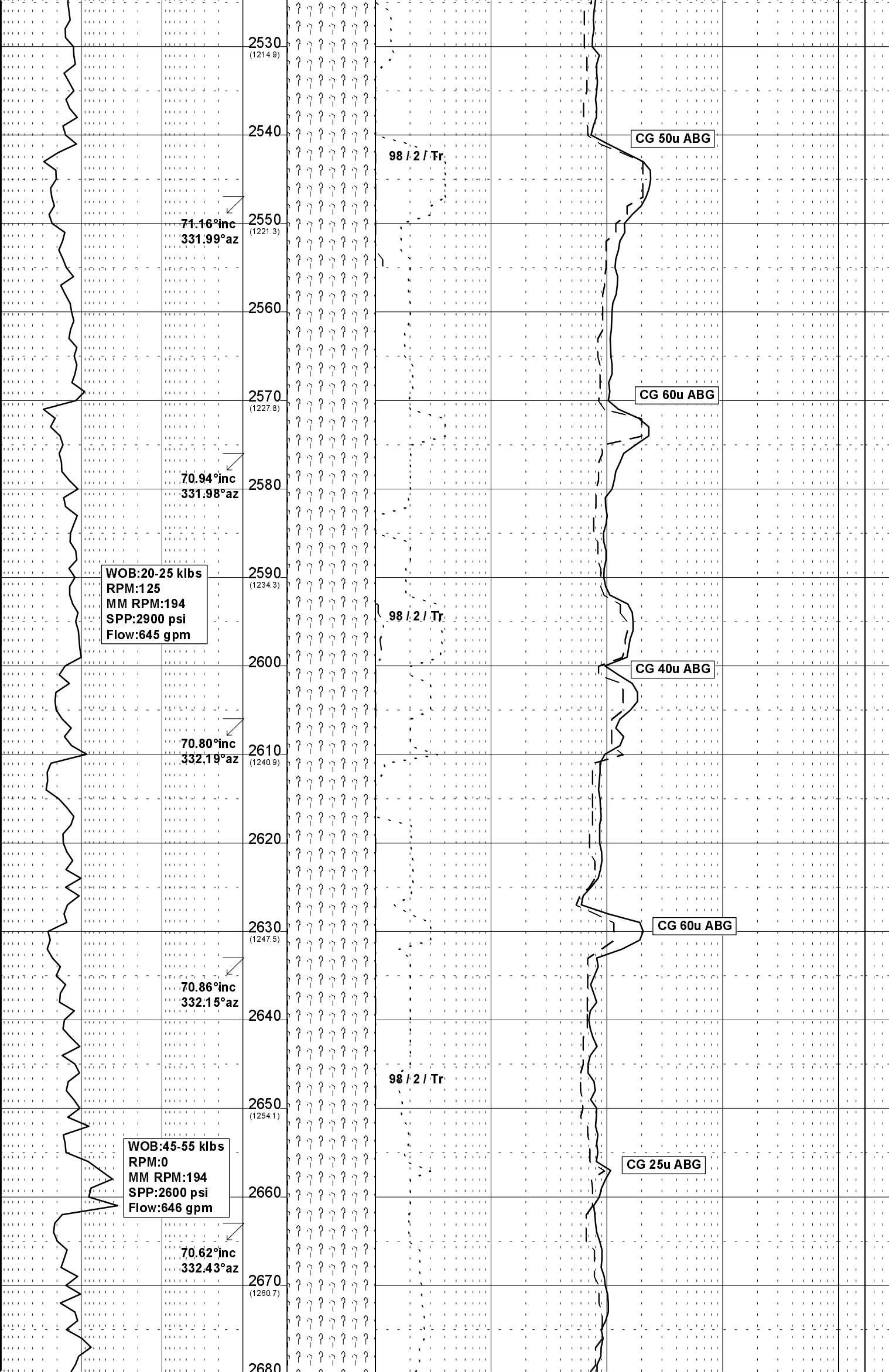
CLAYSTONE:lt olv gy,med dk gy,  
mod calc,tr dissem pyr,loc tr  
foss,loc tr micmic,sft-frm,  
sbbiky-loc tr sbfiss.

CLAYSTONE:lt olv gy,med dk gy,  
mod calc,tr dissem & nod pyr,tr  
foss,loc tr ooid,sft-frm,sbbiky

CLAYSTONE:lt olv gy-olv gy,med  
dk gy,mod calc,loc tr dissem pyr  
tr foss frag,tr ooid,sft-frm,  
sbbiky-rr sbfiss.

CLAYSTONE:lt olv gy-olv gy,mnr  
med dk gy,mod calc,mnr ooid,tr  
foss frag,loc tr dissem pyr,loc  
tr carb spk,sft-occ frm,tr mod  
hd,sbbiky.





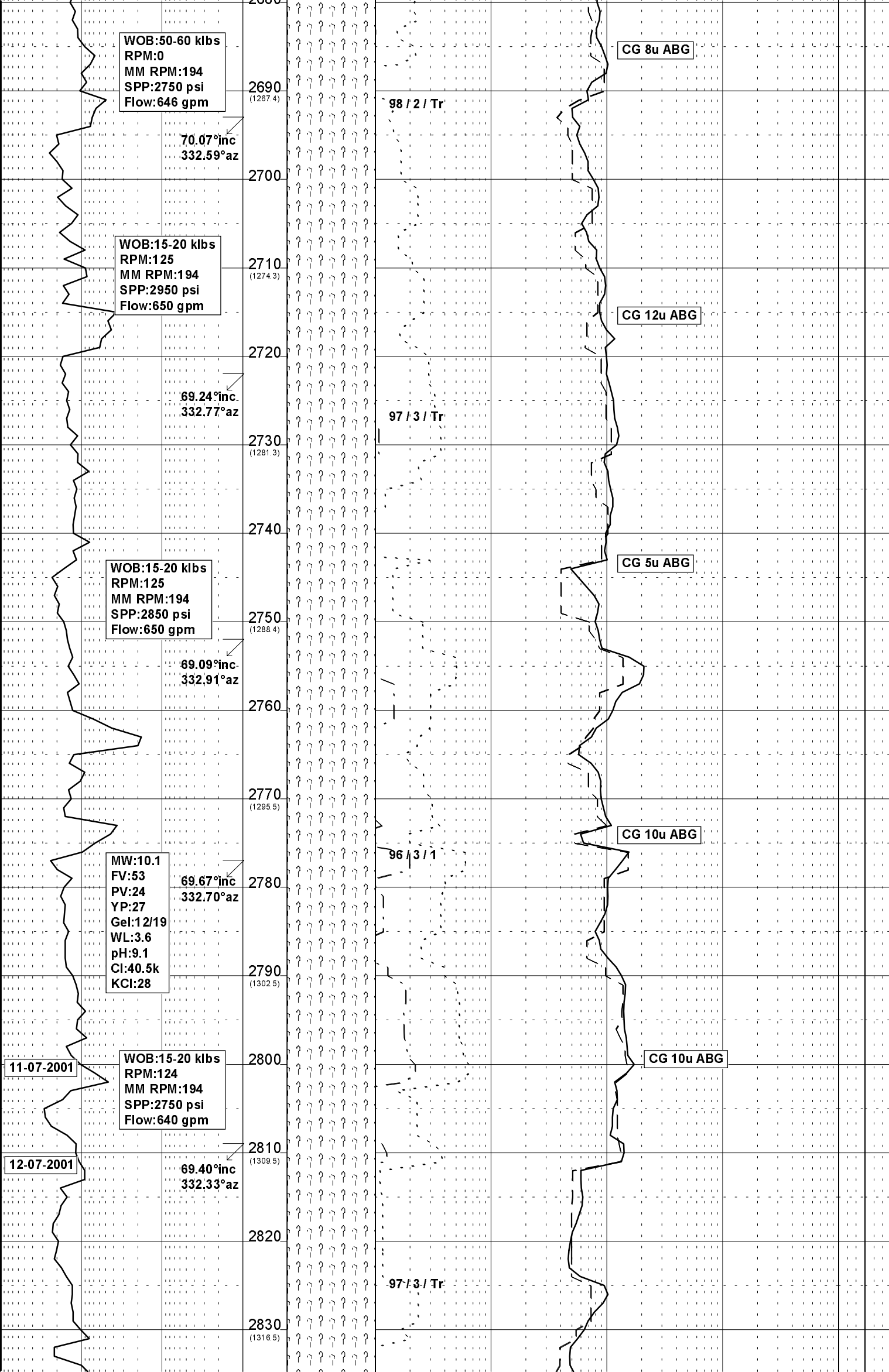
CLAYSTONE:lt olv gy-occ olv gy,  
med dk gy i/p,mod calc,tr foss  
frag,tr dissem & nod pyr,tr ooid  
med dk gy sl micmic,v sft-sft,  
occ frm,amorph-sbbiky.

CLAYSTONE:lt olv gy-olv gy,occ-  
mnr med dk gy,mod calc,tr foss  
frag,loc tr dissem pyr,loc tr  
glauc,sl micmic,v sft-sft,occ  
frm,sbbiky-rr sbfiss.

CLAYSTONE:lt olv gy-olv gy,mnr-  
com med dk gy,mod calc,tr foss  
frag,loc tr ooid,loc tr dissem  
pyr,loc sl micmic,sft-frm i/p,  
sbbiky-rr sbfiss.

CLAYSTONE:dom lt olv gy,olv gy,  
med dk gy,mod calc,tr glauc,tr  
foss frag,loc tr dissem pyr,loc  
sl micmic,v sft-sft,occ frm,  
sbbiky-occ sbfiss

CLAYSTONE:lt olv gy,olv gy,med  
dk gy,mod calc,tr ooid,loc tr  
glauc,loc tr dissem pyr,tr foss  
frag,v sft-sft,occ frm, amorph-  
sbbiky.



CLAYSTONE:lt olv gy,olv gy,occ  
med gy,mod calc,rr ooid,tr  
glauc grn i/p,rr dissemin pyr,sft  
occ frm,amorph-sbbiky.

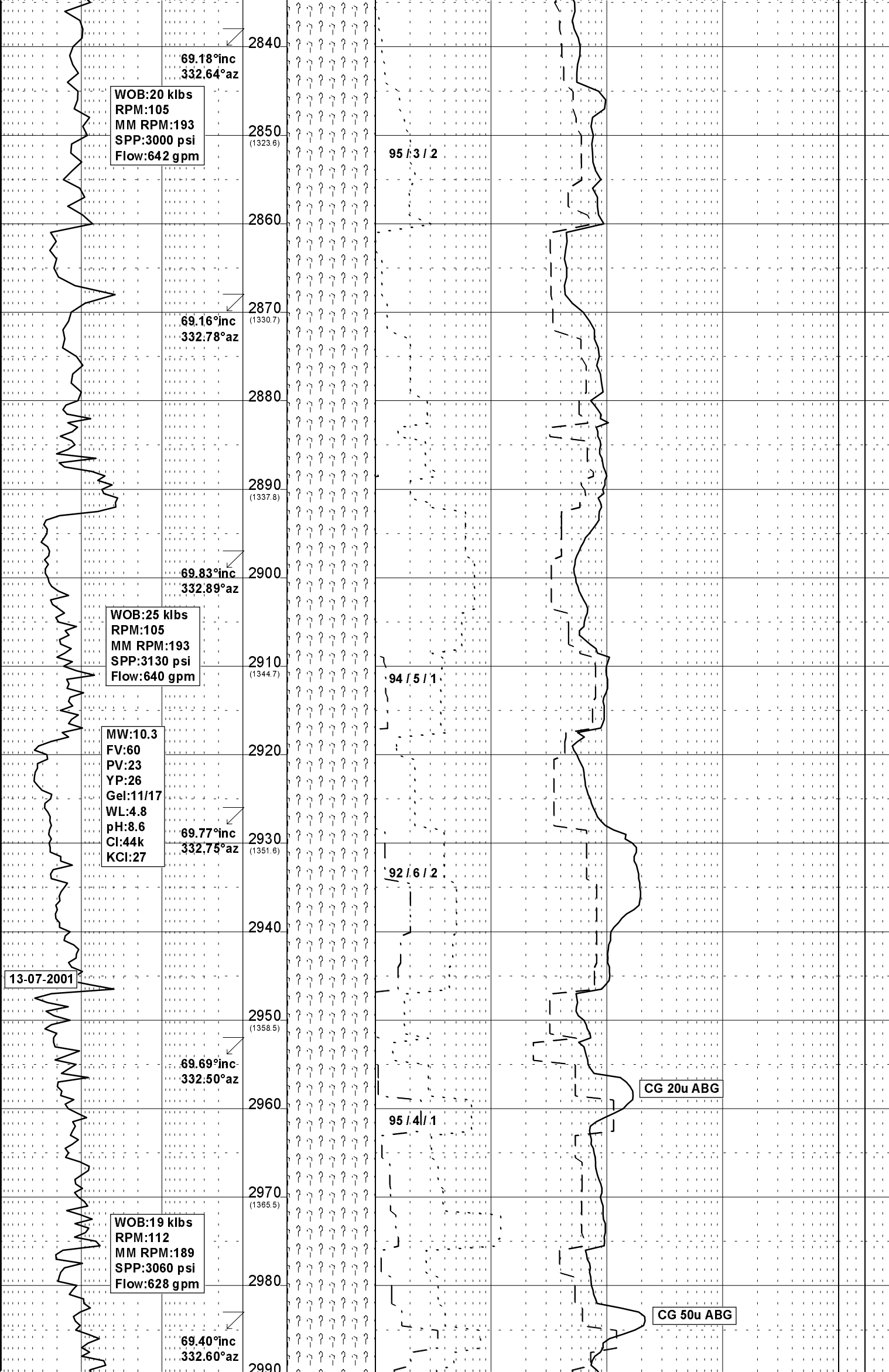
CLAYSTONE:lt olv gy-olv gy,med  
gy i/p,mod calc,rr glauc,tr  
micrcarb spk,sft,occ frm,  
sbbiky.

CLAYSTONE:lt olv gy,olv gy-med  
gy i/p,mod calc,rr ooid,rr glauc  
tr dissemin pyr,rr micrcarb spks,  
sft,occ frm,sbbiky.

CLAYSTONE:lt olv gy-gn gy,mod  
calc,tr glauc i/p,rr ooid,frm,  
com sft,sbbiky.

WIPER TRIP TO SHOE @ 2811m

CLAYSTONE:gn gy-med gy,lt olv gy  
i/p,mod calc,rr glauc i/p,rr  
ooid,rr foss frag,frm,occ sft,  
sbbiky.



CLAYSTONE:lt olv gy-lt gy,gn gy-  
med gy,mod calc,tr dissem pyr,  
frm,com sft,sbblky-blky.

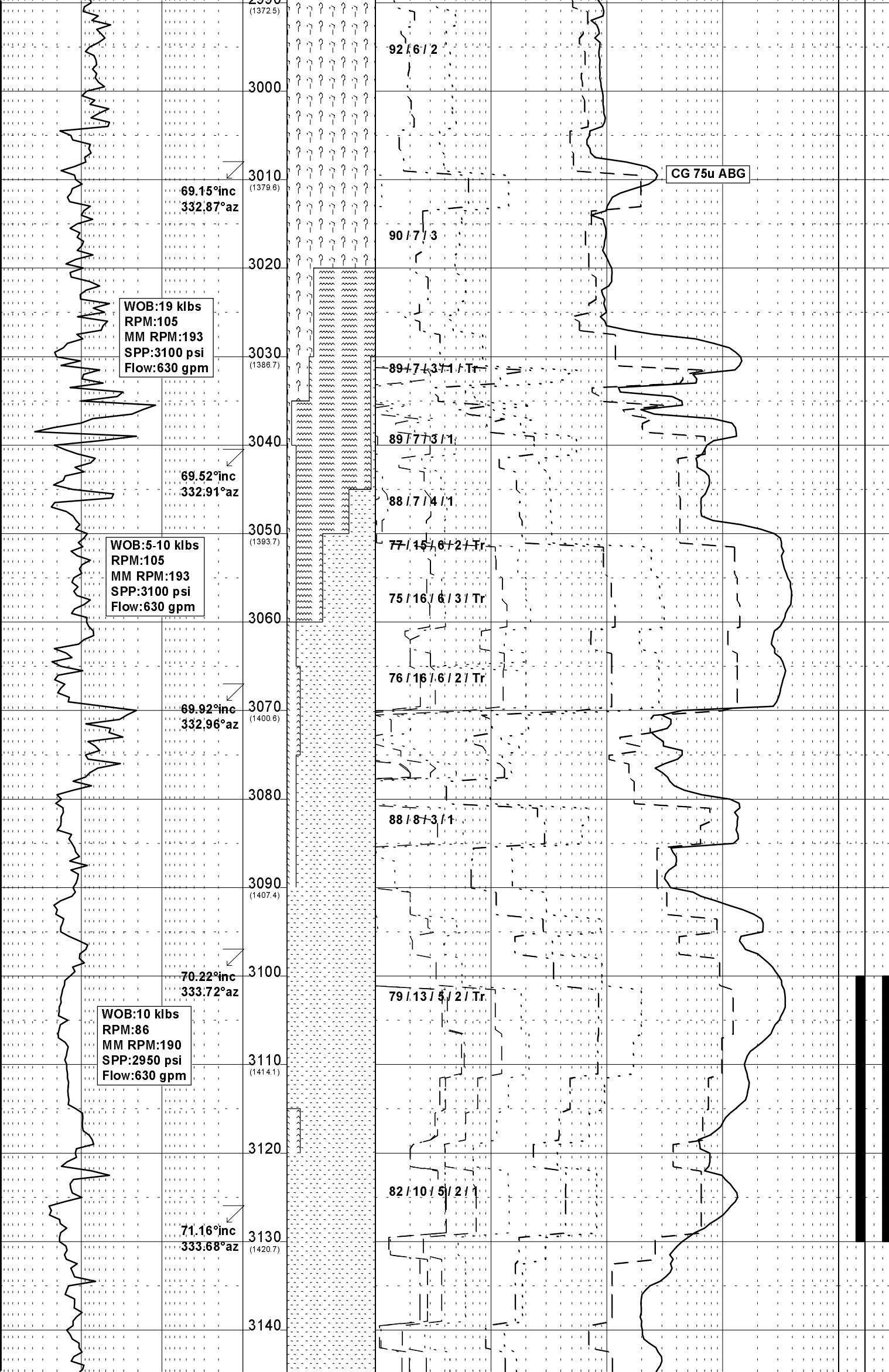
CLAYSTONE:gn gy-med gy,lt gy i/p  
mod calc,tr dissem pyr,frm,com  
sft,sbblky-blky.

CLAYSTONE:lt gy-lt olv gy,gn gy-  
med gy i/p,mod calc,tr micmic,  
frm,com sft,sbblky,amorph i/p.

CLAYSTONE:lt olv gy,gn gy-olv gy  
i/p,mod calc,sity i/p,rr micmic,  
rr dissem pyr,tr micro carb spk,  
frm,com sft,sbblky.

CLAYSTONE:lt gy-lt olv gy,lt bn  
gy i/p,mnr sity i/p,rr dissem  
pyr,tr dissem glauc,sft-frm,  
sbblky-blky.

CLAYSTONE:lt bn gy-lt gy,occ med  
gy,tr sity i/p,moc mnr glauc,rr  
dissem pyr,rr foss frag,sft,occ  
frm sbblkv-blkv



No H2S or CO2 detected

CLAYSTONE:lt olv gy-lt bn gy,  
med gy-gn gy i/p,mod calc,tr  
sity,loc mnrr dissem glauc,rr  
dissem pyr,rr foss frag,sft,occ  
frm,sbbiky.

SILTSTONE:lt bn gy,pl bn,occ dk  
yel org,v arg,g/t CLST i/p,com  
dissem glauc,tr dissem pyr,frm,  
com sft,sbbiky-blky.

CLAYSTONE:dk yel org,g/t SLTST  
i/p,mod calc,com lim stn,com  
dissem glauc,occ glauc grn,v sft  
amorph.

SILTSTONE:gy bn,dsky bn i/p,aren  
g/t vf SST,mod hd,blky.

SANDSTONE:clr,transl,opq,pred f-  
med,mod srt,sa-sr,cln & lse,pr  
inf por,no fluor.

SANDSTONE:clr,transl,pl gy,f-v  
crs,pred med-crs,pr srt,sa-sr,  
ang i/p,tr dissem pyr,loc kaol  
mtx,pred cln & lse,fr-gd inf por  
no fluor.

SILTSTONE:med dk gy,arg i/p,g/t  
CLST i/p,sl-mod calc,rr dissem  
pyr,micmic i/p,tr pyr nod,pred  
frm,occ mod hd,sbbiky-blky.

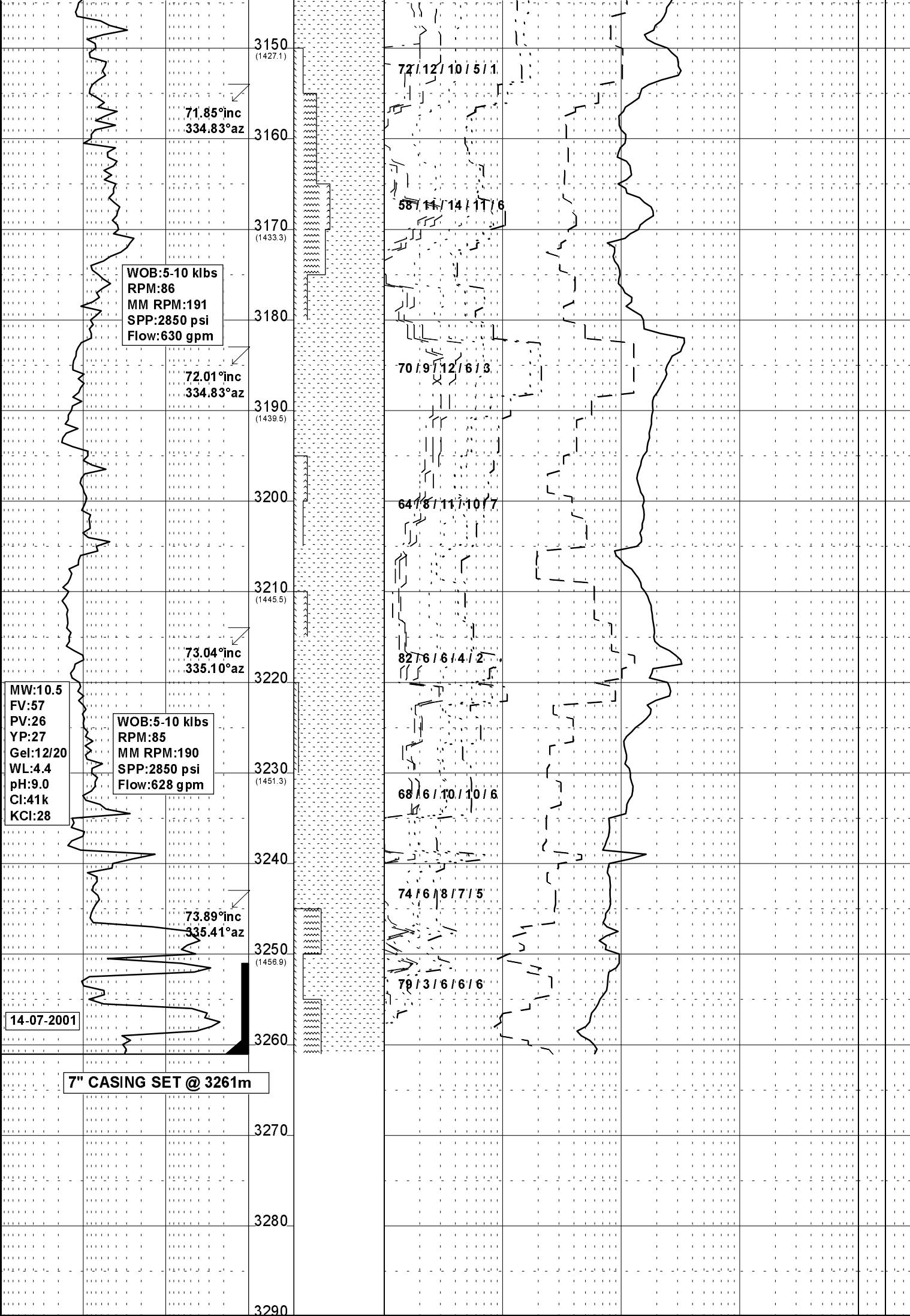
SANDSTONE:clr,transl,v pl gy,loc  
mlky,f-v crs,pred crs,pr srt,  
pred sa-sr,mnr-com frac grn,com  
dissem pyr i/p,loc tr hd pyr cmt  
pred lse,gd inf por,no fluor.

SANDSTONE:clr,transl,opq,pl gy,tr  
med dk gy,tr mlky i/p,tr dsky bn  
stn i/p,f-v crs,pred med-crs,pr  
srt,sa-sr,mnr frac grn,mnr  
dissem pyr i/p,pred lse,loc tr  
pyr cmt,gd inf por,fluor.

FLUOR:3100m-3130m;15%-5%,  
Tr dll pl yel wh sptd fluor,  
pl crm diff crsh cut, thk res rng.

SANDSTONE:clr,transl,opq,pl gy,  
mnr med dk gy,tr mlky,tr pnk qtz  
loc tr dsky bn stn i/p,f-v crs,  
pred crs-v crs,pr srt,sa-sr,mnr  
frac grn,mnr dissem pyr i/p,tr  
pyr nod,lse,gd inf por,fluor.

SANDSTONE:clr,transl,opq,pl gy,rr  
med dk gy,tr mlky,f-v crs,pred  
crs-v crs,pr srt,pred sa-sr,loc  
ang i/p,mnr frac grn,mnr dissem  
pyr i/p,tr pyr nod,lse ad inf



pyr, i/p, tr pyr, nod, loc, g, m  
por, no fluor.

SILTSTONE: olv blk, med dk gy-med  
gy, arg g/t CLST i/p, sli-mod calc  
micmic i/p, frm-mod hd, sbbiky-  
biky.

SANDSTONE: clr, trnsi, opq, pl gy, rr  
dk gy, tr miky, f-v crs, pred med-  
v crs, pr srt, pred sa, loc sr, mn  
frac grn, mnr disse pyr i/p, tr  
pyr nod, lse, pr inf por, no fluor  
SILTSTONE: med lt gy-med gy, sli  
calc i/p, v arg, g/t CLST, micmic  
i/p, v sft-sft, amorph, sbbiky.  
SANDSTONE: clr, trnsi, opq, f-v crs,  
pred med, mod srt, sa-sr, loc tr  
disse pyr i/p, lse, pr-fr inf por  
no fluor.

SANDSTONE: clr, trnsi, f-crs, pred  
med, mod srt, sa-pred sr, loc rnd  
i/p, lse & cln, pr-fr inf por, no  
fluor.

SILTSTONE: dk olv gy, arg, mod calc  
frm, sbiky.

SANDSTONE: clr, trnsi, opq, pl gy,  
tr gy blk, f-v crs, pred f-med, mod  
srt, sa-pred sr, tr pyr nod, lse,  
cln, pr-fr inf por, no fluor.

SANDSTONE: clr, trnsi, opq, tr gy  
blk, f-v crs, pred med-crs, pr srt,  
pred sr-sa, loc rnd, tr pyr nod, tr  
disse pyr i/p, lse, pr-fr inf por  
**FLUOR: 3230m-3255m; 5%,  
mod brt pnk wh sptd  
fluor, no cut.**  
SILTSTONE: olv gy-med gy, dk olv  
i/p, arg, frm, sft i/p, sbbiky,  
sbfiss i/p.  
SANDSTONE: (rock flour 10%), clr  
trnsi, opq, rr miky, f-v crs, pred  
crs, pr srt, sa-sr, com rnd, tr  
disse pyr, cln & lse, pr-fr inf  
por.

**WEST TUNA W-21 TOTAL DEPTH  
3261m MDRT (1460.0m TVD)  
00:45 HRS ON 14-07-2001**

**SCHLUMBERGER ANADRILL  
RUN #1: RAB & ADN  
833m - 3261m**