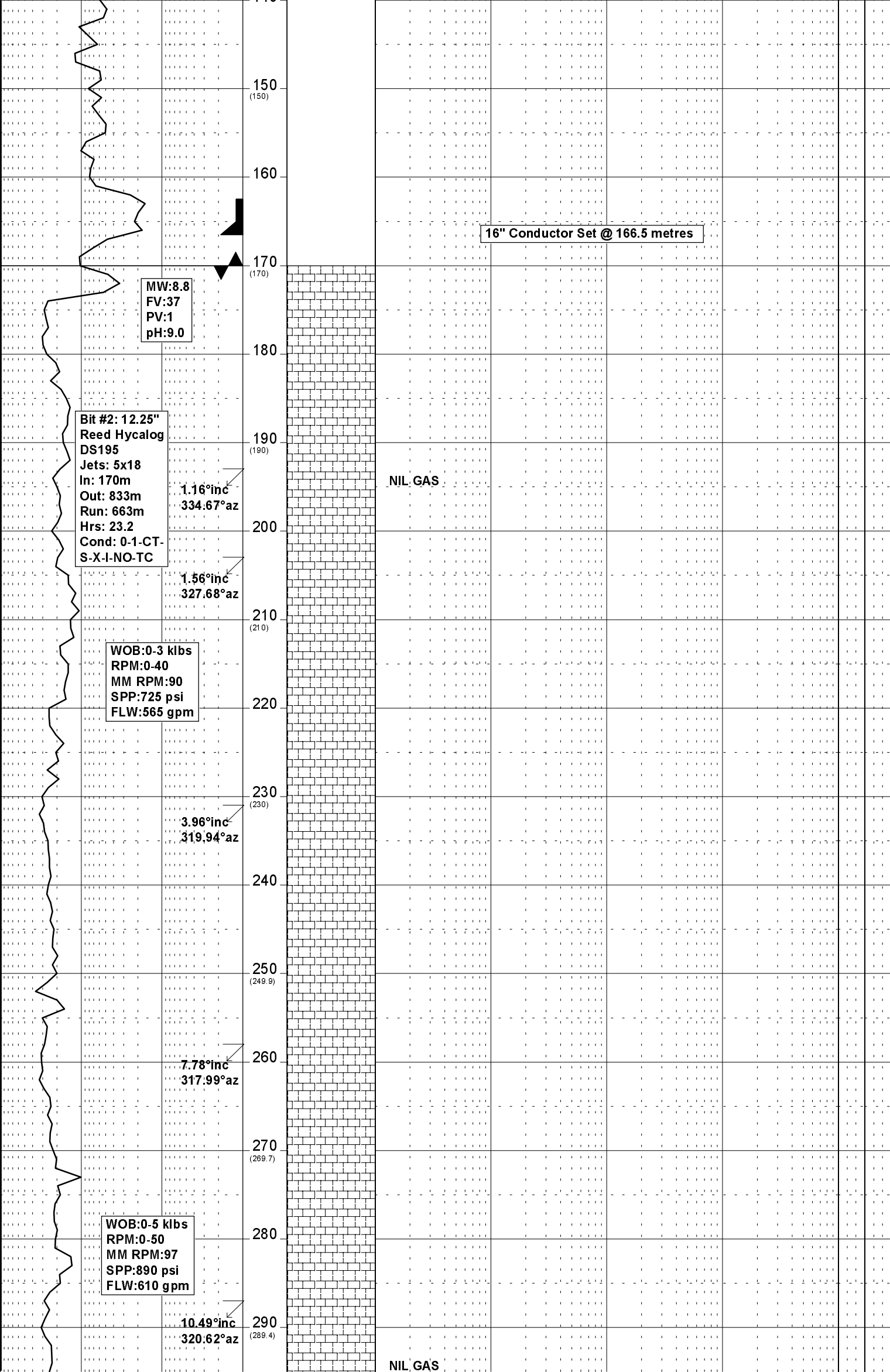




GENERAL			POSITION		HOLE / CASING INFO		DATE / DEPTH		ENGINEERS						
Country : AUSTRALIA Permit : VIC-L4 Field : WEST TUNA Basin : GIPPSLAND Well Type : DEVELOPMENT Rig Name : ISDL-453			Local Co-ord X : 4.00 mE Local Co-ord Y : 0.00 mN AMG Co-ord X : 621,486.68 mE AMG Co-ord Y : 5,771,796.83 mN RT to MSL : 34.69 m RT to Sea Bed : 95.69 m		20" Hole to 170 m 12-1/4" Hole to 833 m 8-1/2" Hole to 2565 m 16" Conductor @ 166.5 m 9-5/8" Surface casing @ 830 m 7" Production casing @ 2559.8 m		Spud Date : 25-09-2001 Total Depth Date : 07-10-2001 Total Depth : 2565 m True Vertical Depth : 1448.91 m Log Scale : 1/ 500 Depth From (m): 90      To: 2580		Mark Smith Matt Boyd Paul McGilveray						
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)		RR	TG	Trip Gas		CORALS		GLAUCONITE		DEVIA. SURVEY		SAMPLE
Gel	Gel Strength	CG	Connection Gas		SST: MEDIUM		CHERT		FORAMINIFERA		PYRITE		SWC UNRECOV		SEAL FAILURE
KCI	Potassium Chloride	BG	Background Gas		SST: COARSE		CONGLOMERATE		LITHIC FRAGMENT		CEMENT		SIDEWALL CORE		TIGHT
CI	Chlorides	DGP	Drilled Gas Peak		SHALE		COAL						CORE		
Incl	Inclination	MM	Mud Motor												
Az	Azimuth														
RATE OF PENETRATION		DEPTH (m) (TVD)	CUTTINGS LITHOLOGY	TOTAL GAS & CHROMATOGRAPH DATA					CUT FLUOR	DIRECT FLUOR	CALCIMETRY % CALCITE DOLOMITE	LITHOLOGICAL DESCRIPTIONS and REMARKS			
metres/hour				C1 — — iC4 — — nC5 — —	C2 - - - - nC4 - - - -	C3 — - - iC5 — - - TG — — —	Total Gas in Units Chromatograph in Percent								
500	50	5	.5	0	100	.5	5	50	500	5K	poor	0	100		
						.01	.1	1	10	100	good			<div>WEST TUNA W-3 SPUDED @ 00:30 HRS ON 25-09-2001</div> <div>ALL RETURNS TO SEA FLOOR</div>	
				90							bill				
				100							bill				
				110							bill				
				(110)							bill				
				120							bill				
				130							bill				
				(130)							bill				
				140							bill				



NO H2S or CO2 DETECTED

AQUAGEL/SEAWATER  
MUD SYSTEM

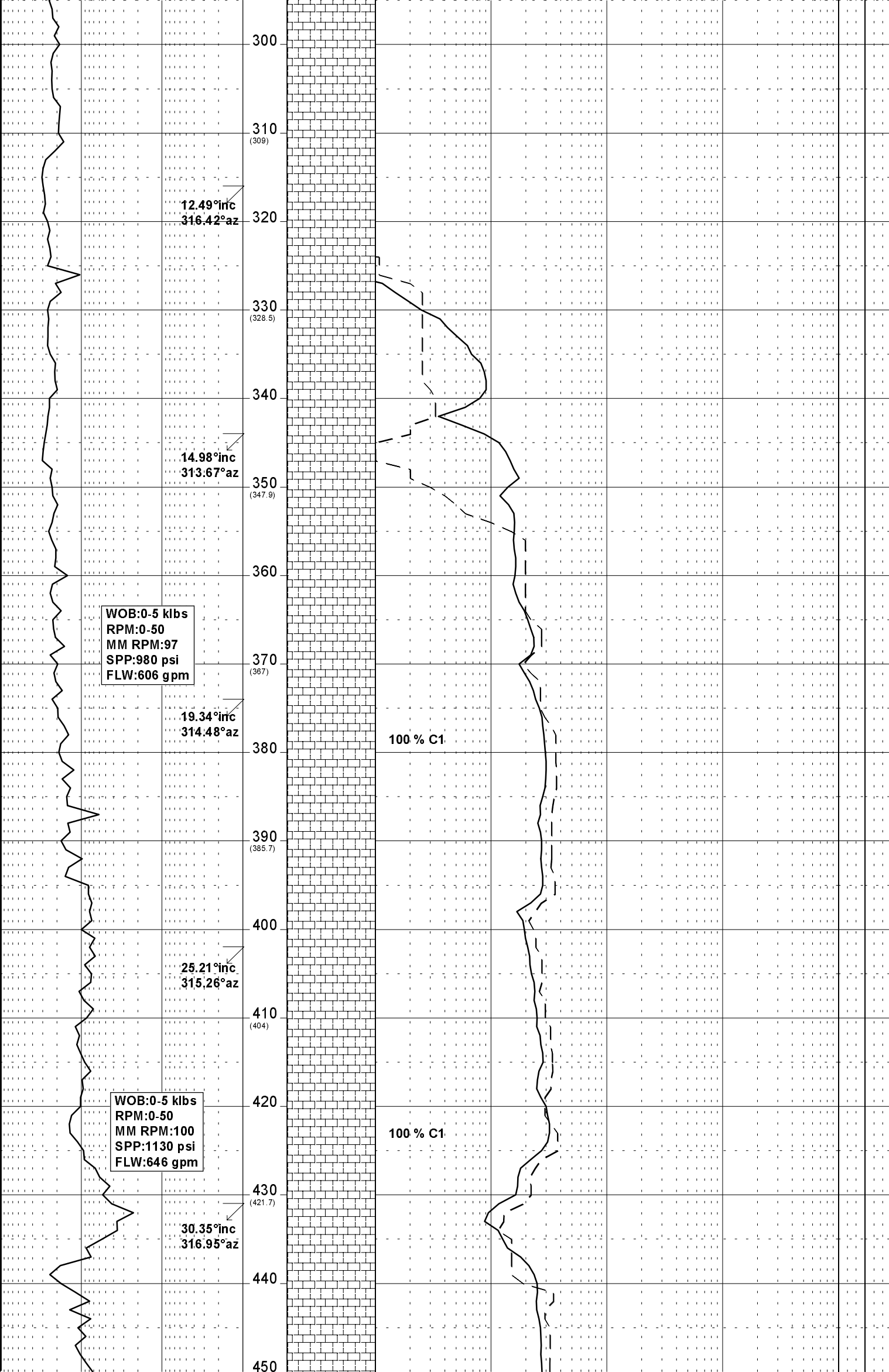
CALCARENITE:v lt gy,lt olv gy,  
yelsh gy,f-v crs,dom f,abdt foss  
frag,foram,shell frag,occ med-  
crs qtz & lith grn,fri-lse,gd  
inf & vis por,no fluor.

CALCARENITE:v lt gy,lt olv gy,  
yelsh gy,f,rr crs,tr arg,abdt  
foss frag,foram,rr shell frag,  
fri,gd vis por,no fluor.

CALCARENITE:v lt gy-lt olv gy,  
yelsh gy,f,tr arg,abdt foss frag  
foram,oid,tr glauc,lse-fri,fr-  
gd inf & vis por,no fluor.

NIL GAS

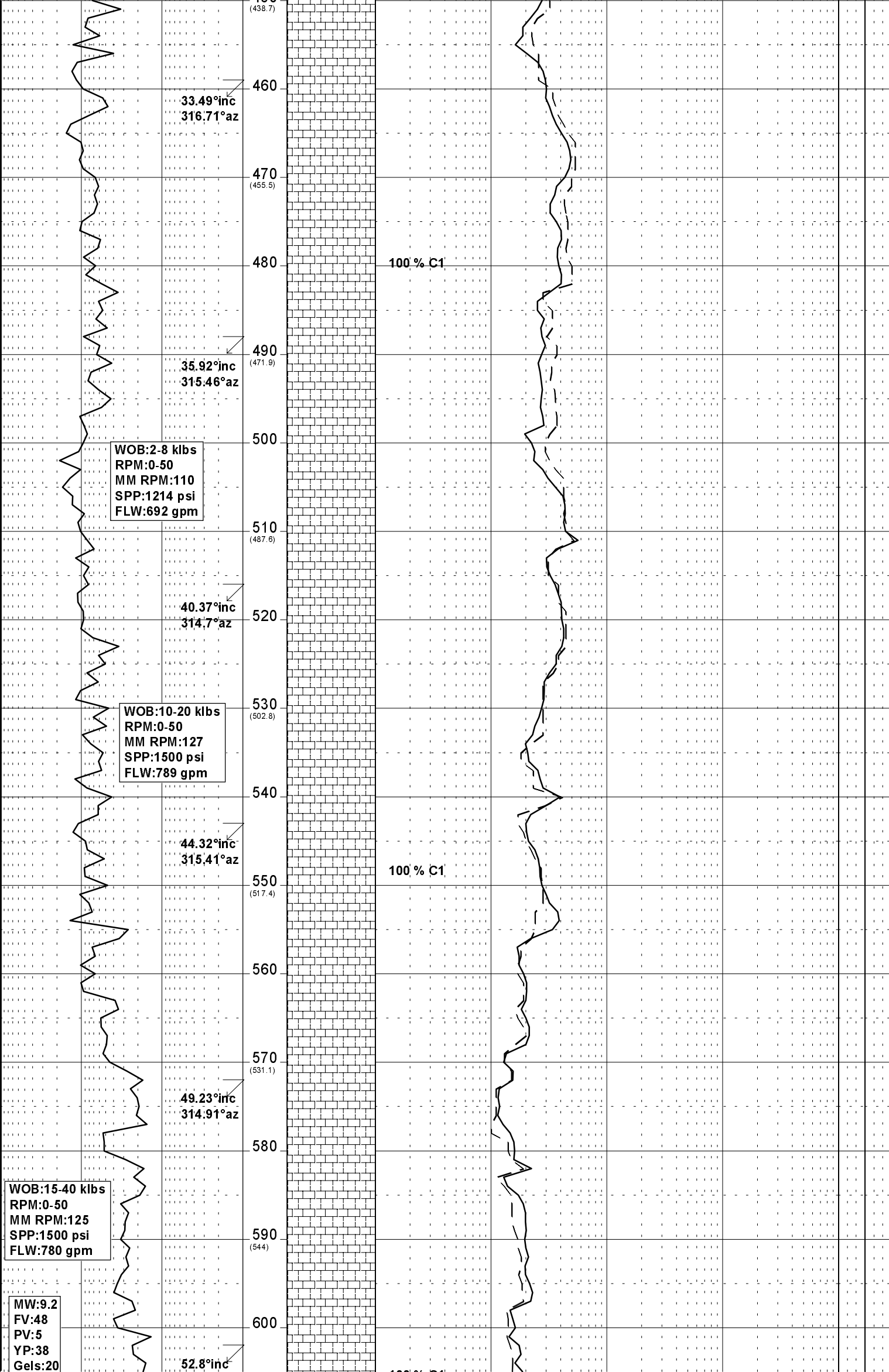
NIL GAS



CALCARENITE:lt gy,lt olv gy,f-  
dom med,occ crs,arg i/p,com foss  
frag,fri-mod hd i/p,pr-fr vis  
por,no fluor.

CALCARENITE:lt olv gy-lt gy,f-  
med,arg i/p,com foss frag,frm,  
fri-mod hd i/p,occ lse,pr-fr vis  
& inf por,no fluor.

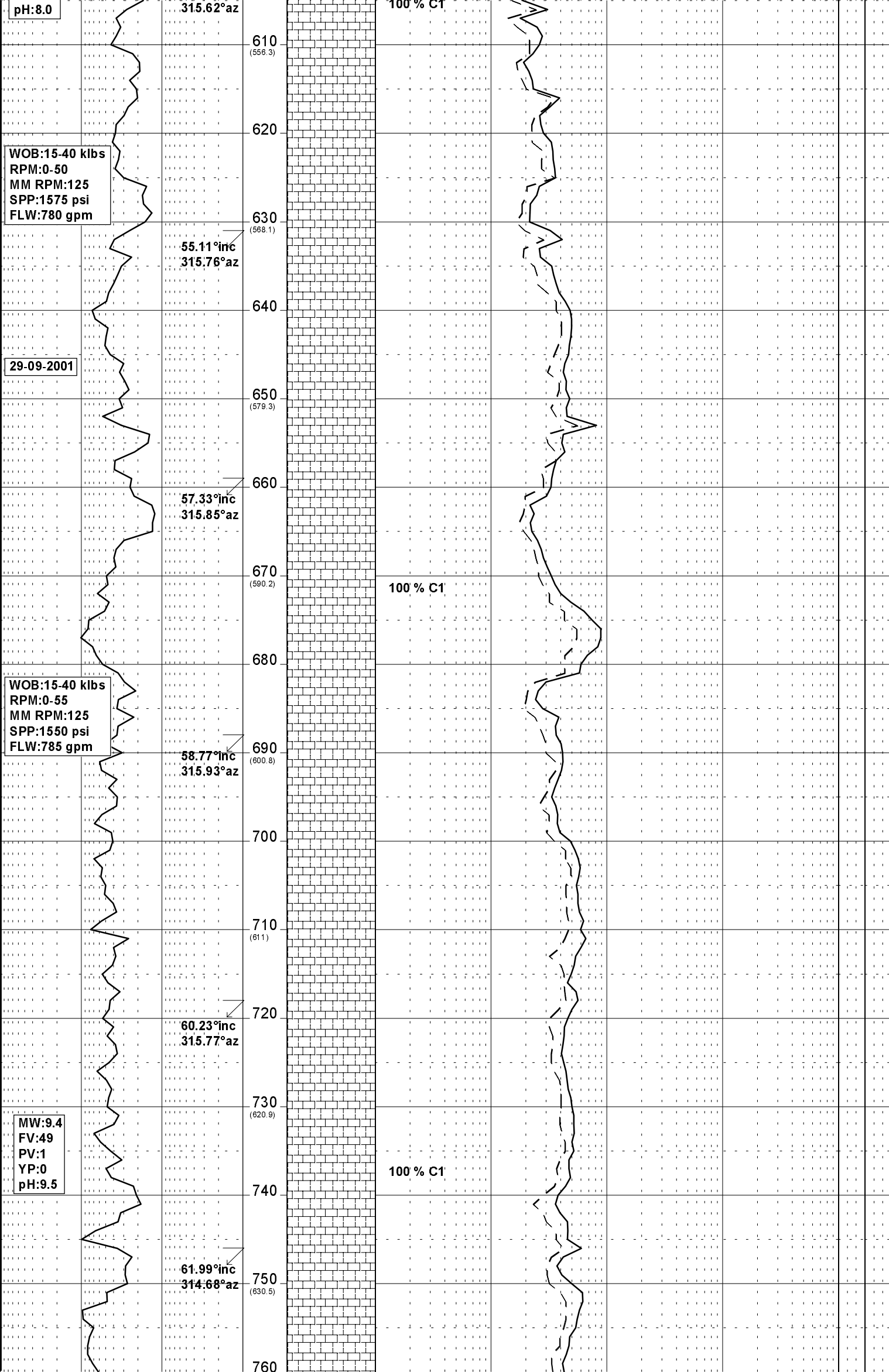
CALCARENITE:lt olv gy-lt gy,off  
wh,f-med,tr crs,com arg i/p,com  
foss & frags,tr lith,fri-mod hd,  
pr vis por,no fluor.



CALCARENITE:lt gy,olv gy,trnsl/  
off wh,f-crs,com foss frag,tr  
glauc,com arg i/p-slty,fri-mod  
hd,pr vis por,no fluor.

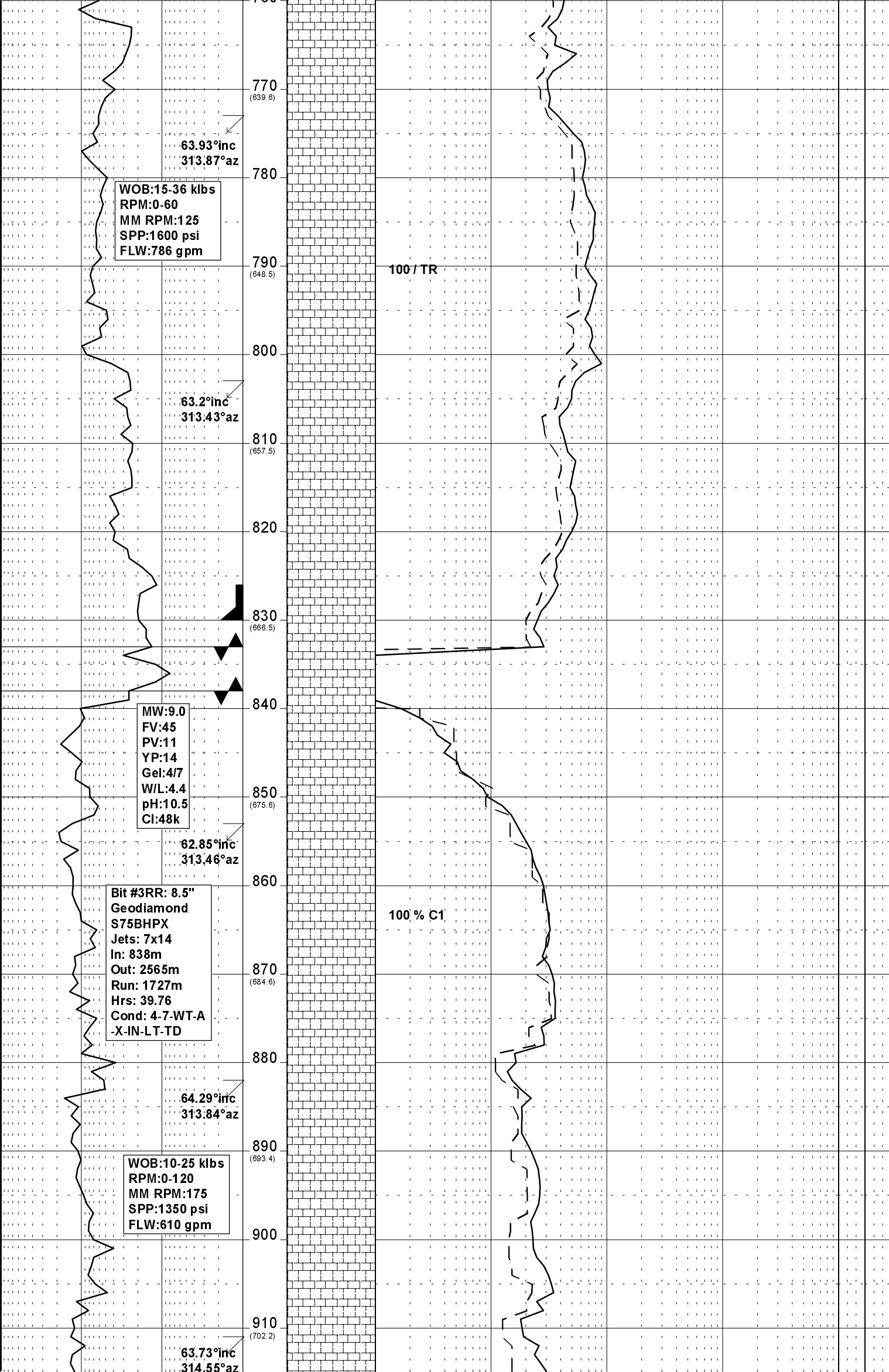
CALCARENITE:lt olv gy,gy gn,f-  
occ med,com arg-lut,com ooid &  
foss frag,tr glauc,fri-mod hd,  
pr vis por,no fluor.

CALCARENITE:lt gy-lt olv gy,  
yelsh gy,f,g/t clsit i/p,com v  
arg,com foss frag,foram,ooid,tr-  
rr pyr,fri-mod hd,vpr vis por,  
no fluor.



CALCARENITE:lt gy-lt olv gy,  
yelsh gy,vf-f,g/t clslt,com v  
arg,com foss,foram,oid,tr pyr,  
tr spar calcite,tr glauc,fri-com  
mod hd,vpr vis por,no fluor.

CALCARENITE:lt gy-olv gy,off wh-  
yel,f-med,com arg,com foss,rr  
pyr,g/t clslt,fri-mod hd,vpr vis  
por,no fluor.



CALCARENITE:lt gy,yel-trnsl-off  
wh,f-med,tr foss-oid & foram,  
fri-mod hd,v pr por,no fluor.

Total Depth 12-1/4" Phase @ 833m

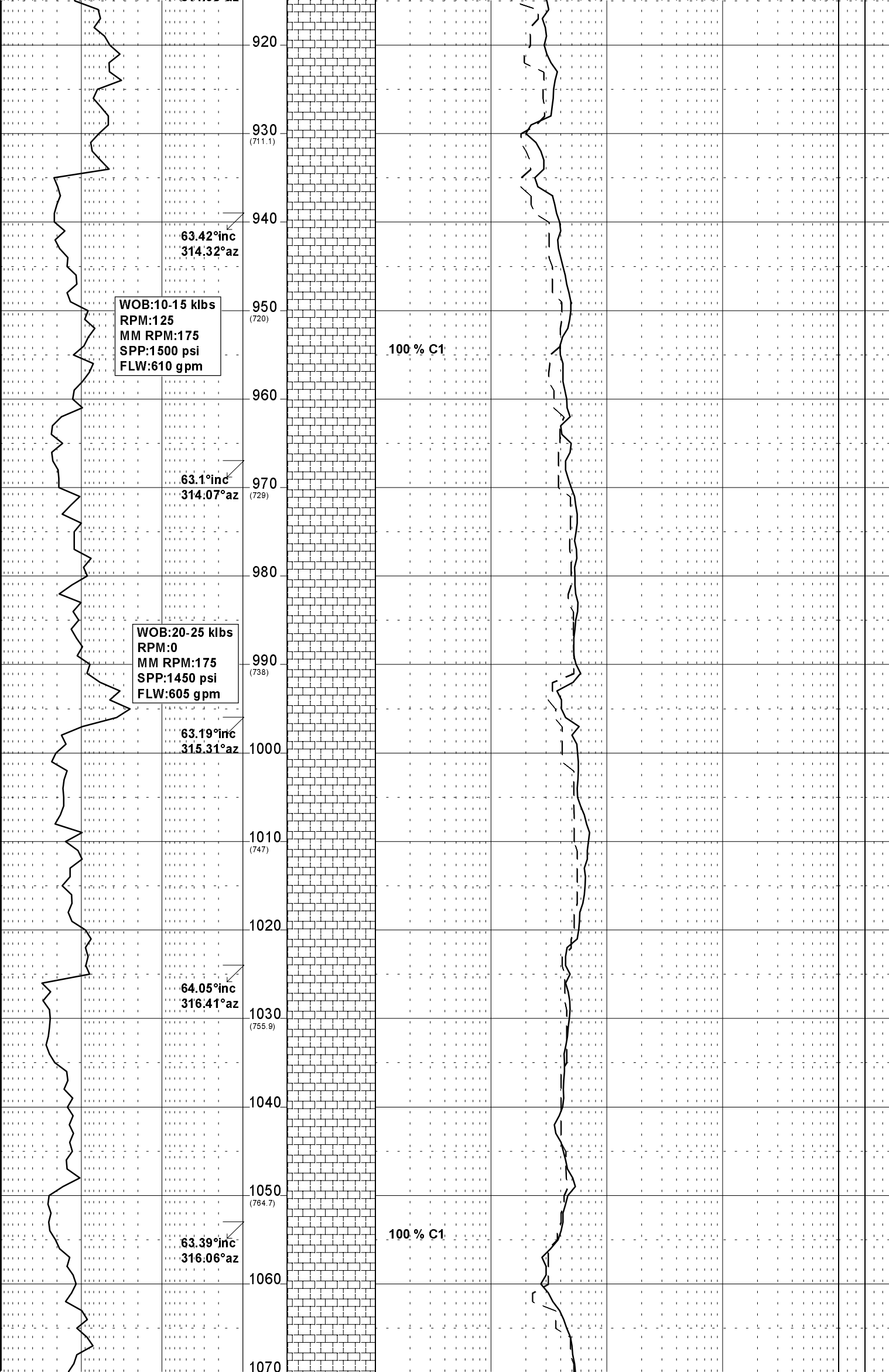
9-5/8" Casing Shoe @ 830m

DRILL OUT WITH ROTARY BHA,  
TRIP FOR STEERABLE RAB/ADN

PIT @ 838m: EMW = 12.5 ppg

DRILL WITH KCL/PHPA  
POLYMER MUD SYSTEM

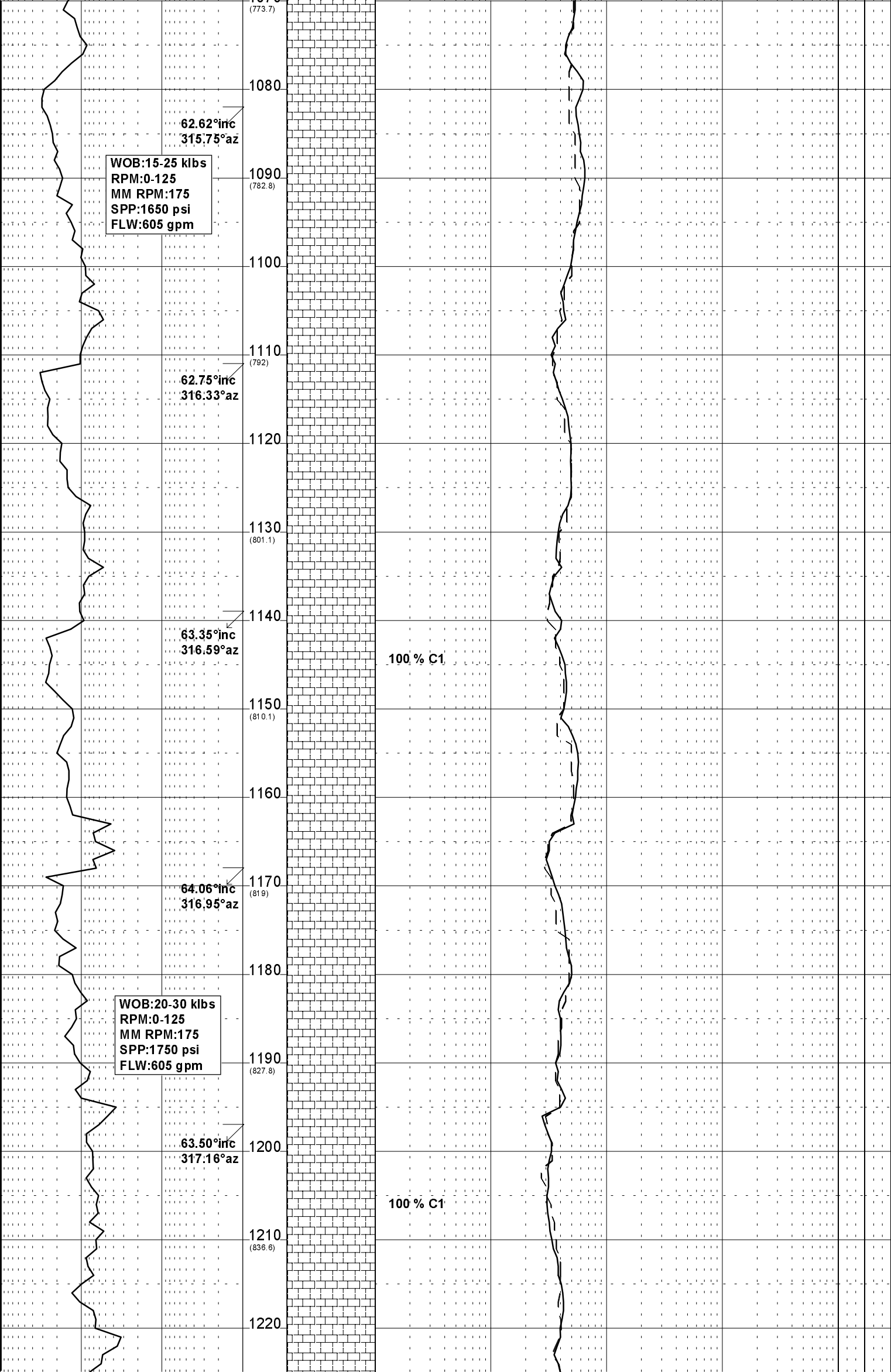
CALCILUTITE:lt gy-lt olv gy,com  
v arg,tr foram,tr oid,tr spar  
calcite grn,tr carb spk,sft,  
amor-sbbiky.



CALCILUTITE:lt gy-lt olv gy,com  
v arg,tr foram,tr ooid,tr spar  
calcite,tr carb spk,tr-rr dissem  
pyr,v sft-sft,amor-rr sbblky.

CALCILUTITE:lt gy-lt olv gy,com  
v arg,tr spar calcite grn,tr  
carb spk,tr foss frag,v sft-sft,  
rr frm,amor-sbblky.

CALCILUTITE:v lt gy-lt olv gy,  
com v arg,tr foram,tr ooid,tr  
dissem & nod pyr,rr spar calcite  
grn,tr carb spk,v sft-sft,occ  
frm,amor-sbblky.

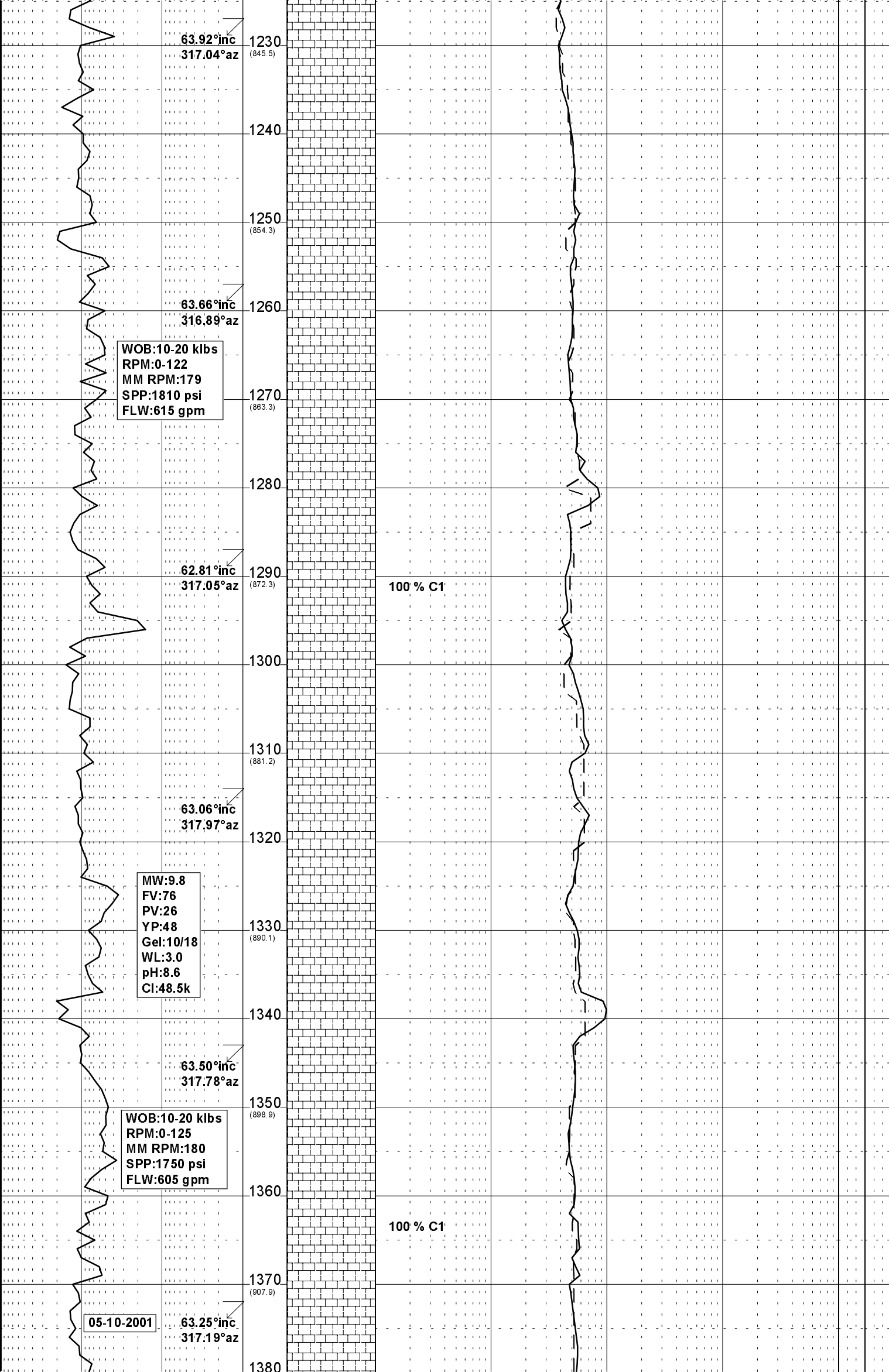


CALCILUTITE:v lt gy-lt olv gy,  
com v arg,g/t CALC CLYST,tr ooid  
tr foram,tr dissem & nod pyr,rr  
spar & micr calcite grn,tr carb  
spk,sft-occ frm,amor-com sbbiky

CALCILUTITE:v lt gy-lt olv gy,  
com v arg,g/t CALC CLYST,tr ooid  
tr foram,tr carb spk,tr spar  
calcite grn,tr dissem & nod pyr,  
sft-occ frm,amor-sbbiky.

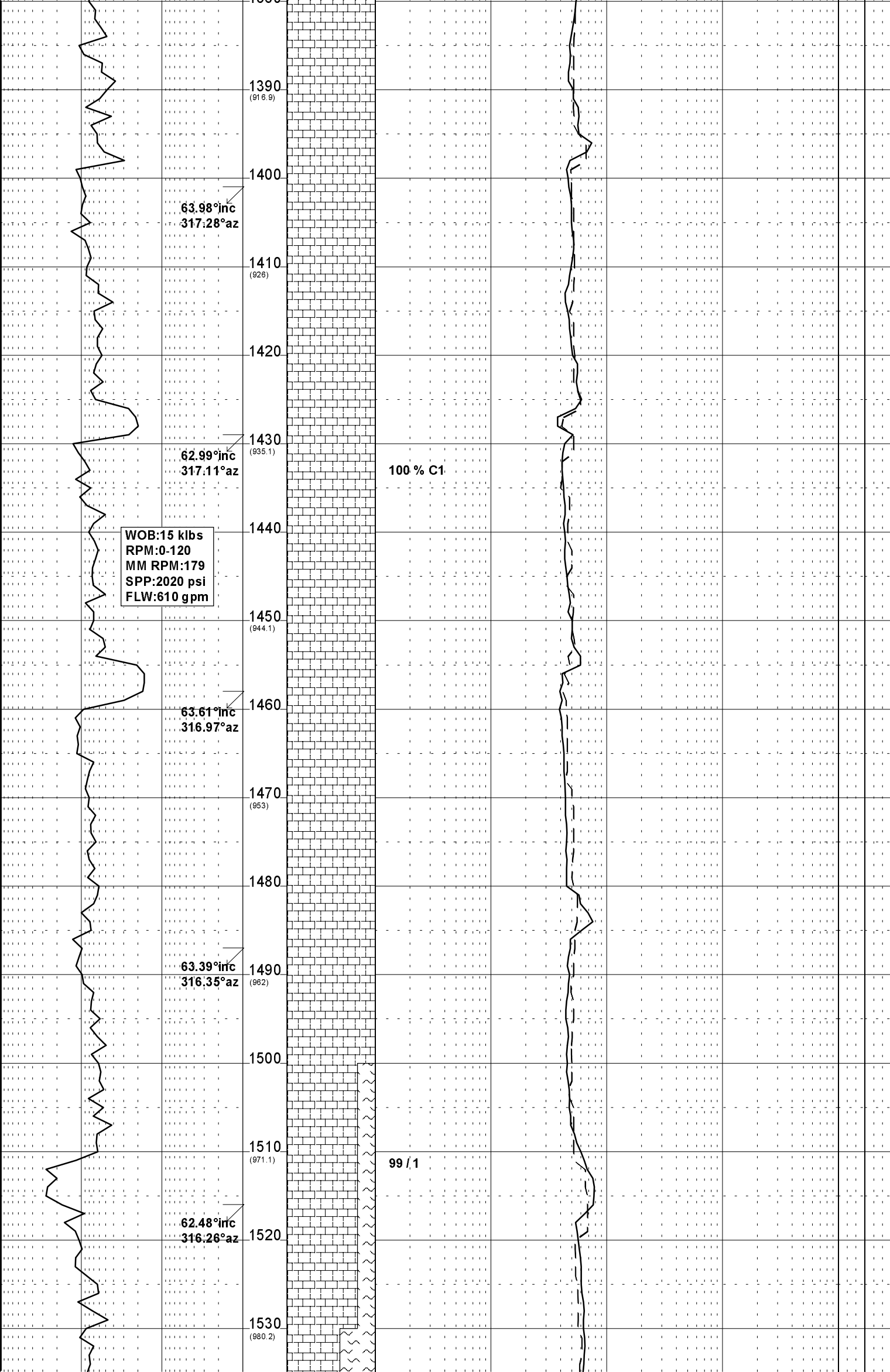
CALCILUTITE:v lt gy-lt olv gy,  
com v arg,tr foram,tr ooid,tr  
dissem & nod pyr,tr carb spk,  
tr spar calcite grn,sft-occ frm,  
amor-sbbiky.





CALCULUTITE:lt gy-ly olv gy,v  
arg,g/t Calc Clst i/p,tr slty  
i/p,tr ooid,rr nod pyr,rr carb  
spk,sft-v sft,occ frm,amor-  
sbbiky.

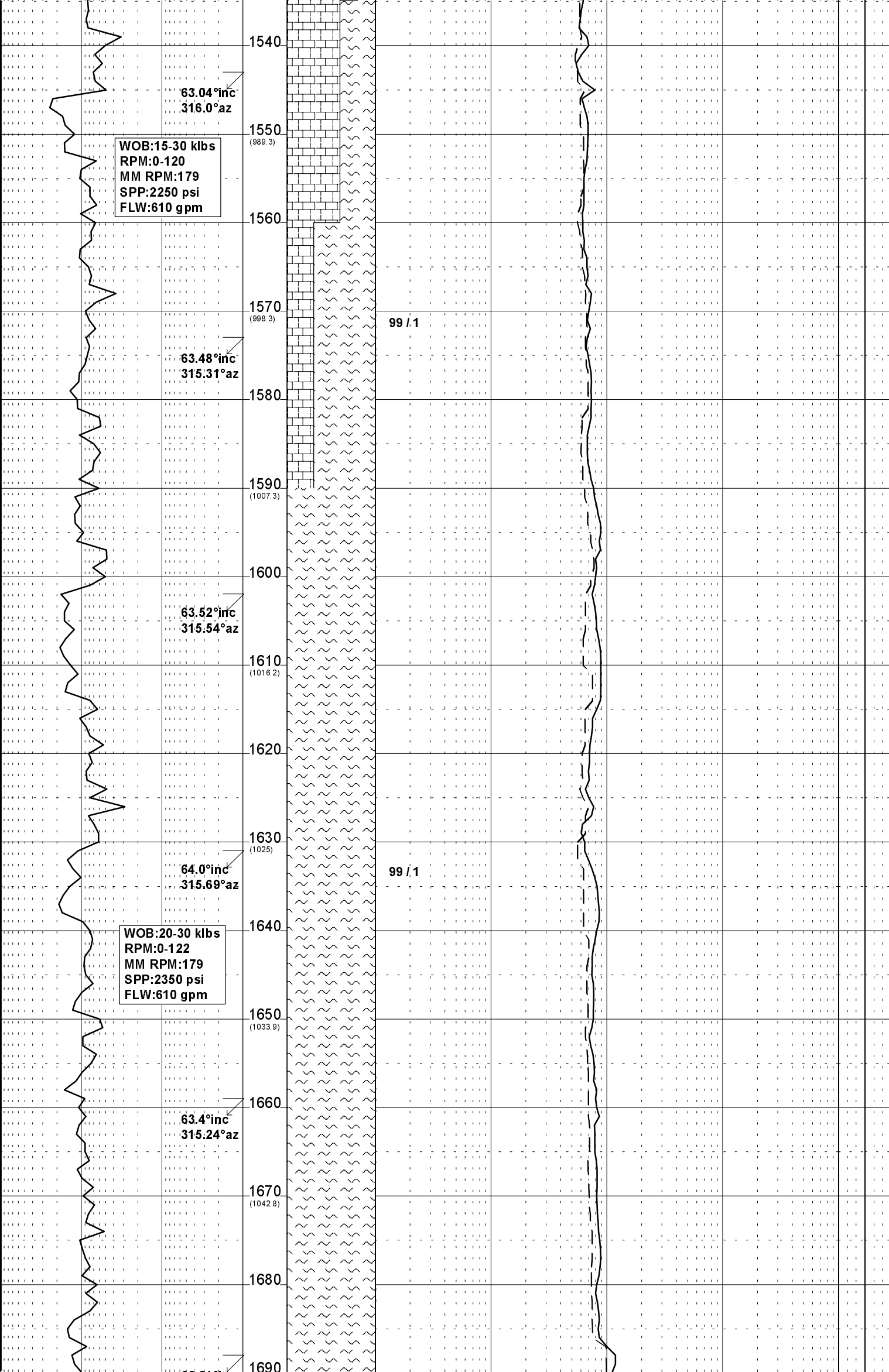
CALCULUTITE:lt gy-lt olv gy,pl  
gy bn,v arg,rr slty,g/t Calc  
Clst i/p,tr ooid,tr carb spk,v  
sft,amor-sbbiky.



CALCILUTITE:lt gy-lt olv gy,arg,  
tr slty,rr spar calc,rr carb spk  
v sft,occ frm,sbbiky-amor.

CALCILUTITE:lt gy,lt olv gy,arg  
tr slty i/p,tr dissem pyr,rr  
carb spk,v sft,frm i/p,sbbiky-  
amor.

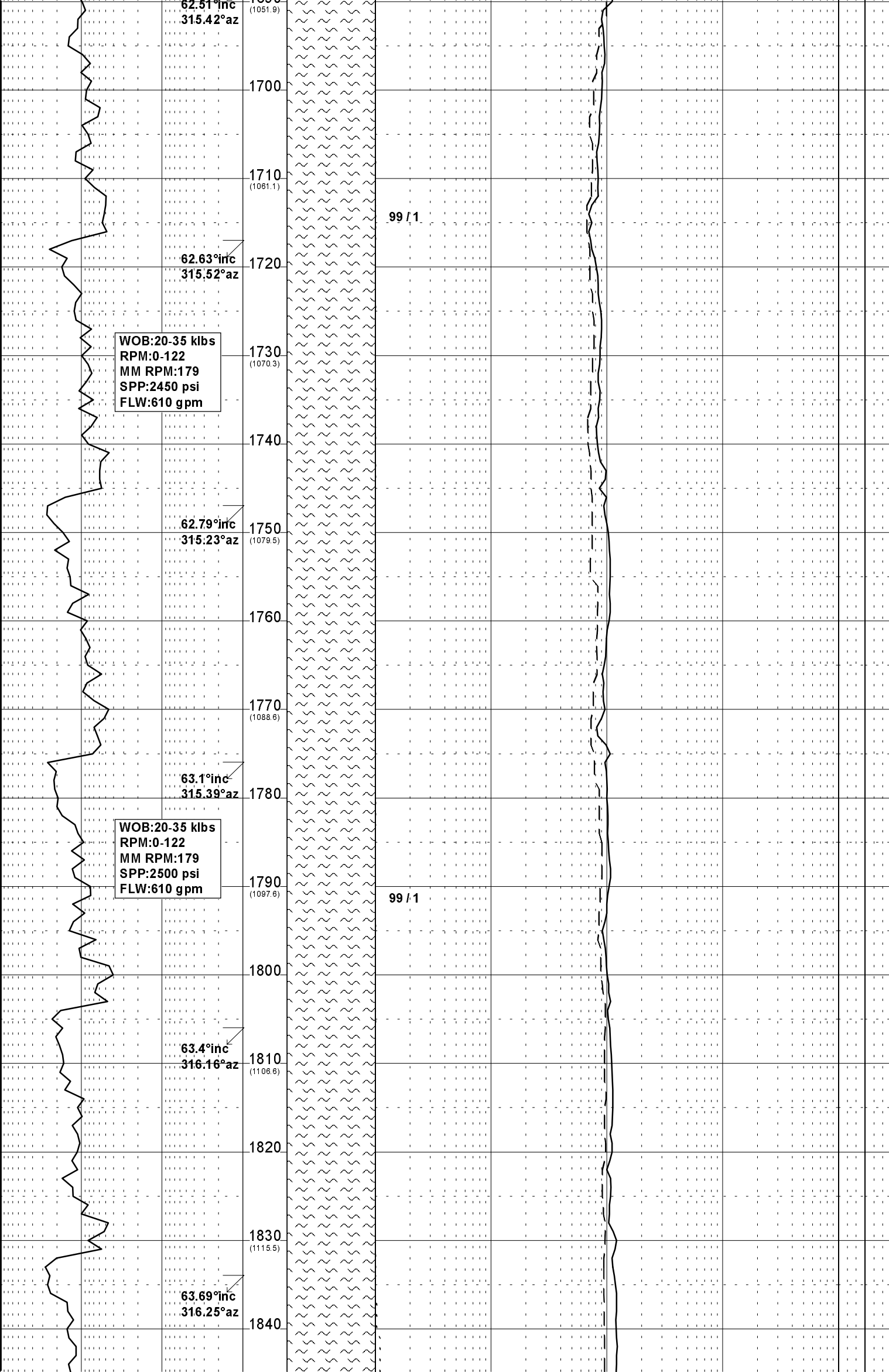
CALCILUTITE:lt gy-lt olv gy,com  
arg,tr slty i/p,tr dissem pyr,tr  
carb spk,tr foram,tr ooid,tr  
spar calcite,v sft-sft,occ frm,  
occ amor-dom sbbiky.



MARL:lt gy,lt olv gy,occ med gy,  
arg,tr slty i/p,tr carb & lith  
spk,tr dissem pyr,tr ooid,sft-  
frm,occ amor,sbblky.

MARL:lt gy-lt olv gy,med gy,  
arg,tr slty i/p,tr carb,tr nod  
& dissem pyr,tr ooid,sft-occ frm  
amor i/p,sbblky.

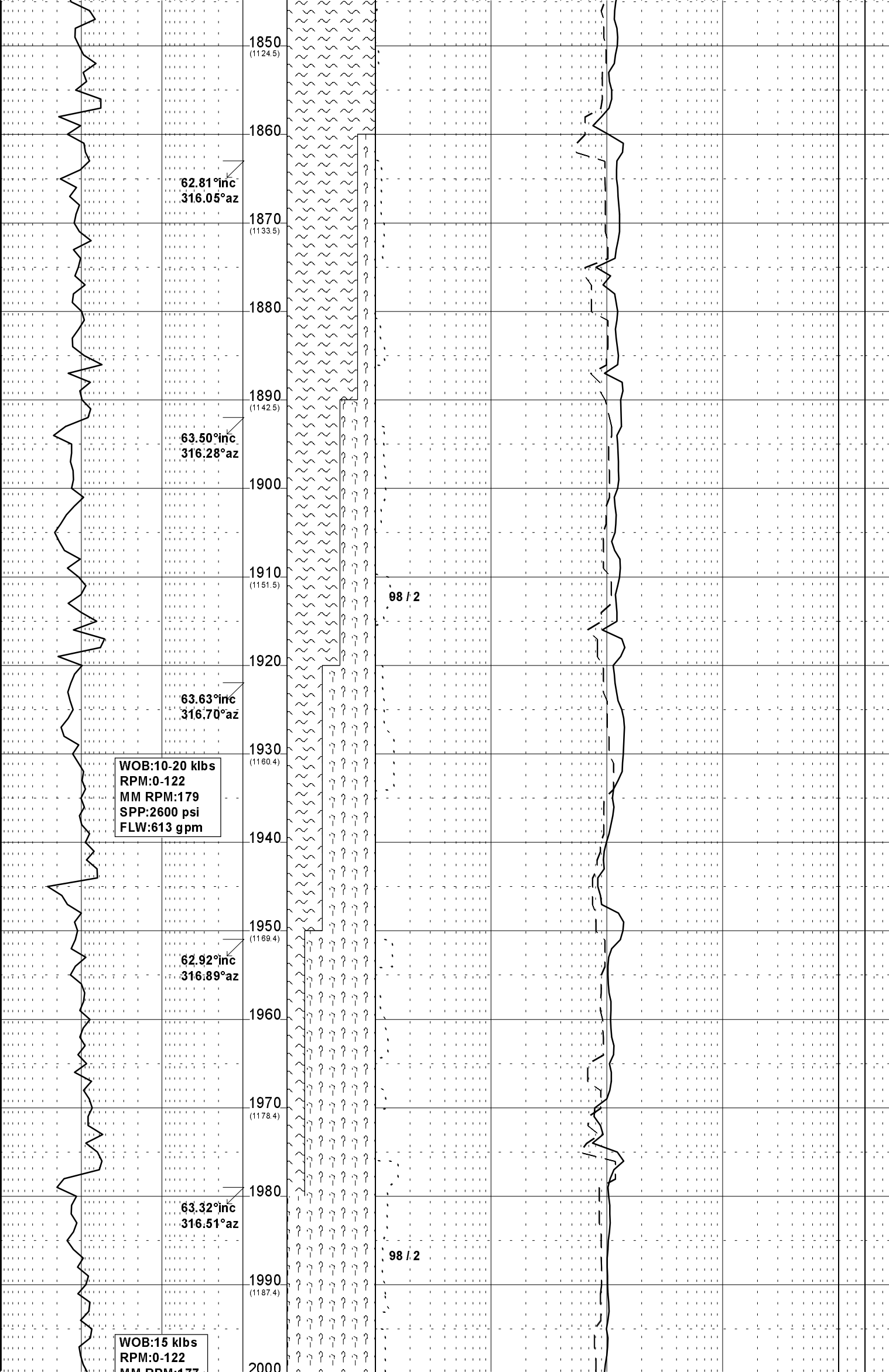
MARL:lt gy-lt olv gy,med gy,  
arg,occ slty i/p,tr carb spk i/p  
tr-rr dissem & nod pyr,tr ooid,  
sft-rr frm,amor i/p,sbblky.



MARL:lt olv gy,lt-med gy,arg,  
tr slty i/p,tr dissem & nod pyr,  
tr-rr ooid,tr carb spk i/p,sft-  
rr frm,amor i/p,sbblky.

MARL:lt olv gy,lt-med gy,arg,tr  
slty i/p,tr dissem & nod pyr,tr  
ooid,loc tr carb spk,sft-occ frm  
sbblky.

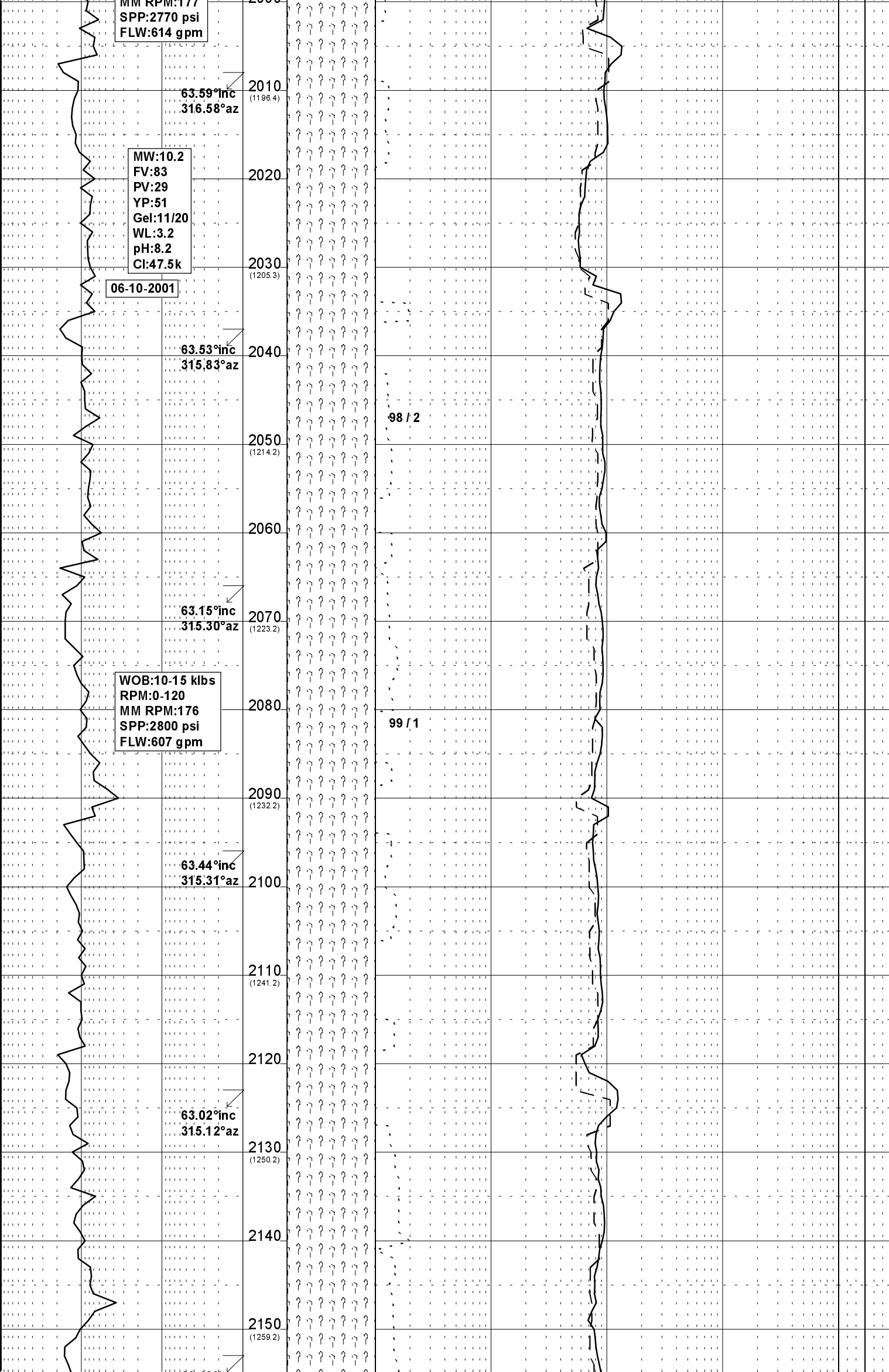
MARL:lt olv gy,lt-med gy,arg,loc  
tr slty i/p,rr-mnr ooid,tr  
dissem & nod pyr,loc tr carb spk  
tr foram,sft-occ frm,sbblky.



MARL:lt olv gy,occ med gy,arg,rr  
ooid,tr nod pyr,occ carb spk,sft  
-frm,sbblky.

CLAYSTONE:lt olv gy-lt gy,calc,  
mnr ooid,rr nod pyr,occ spar  
calc,frm,com sft,sbblky-blky.

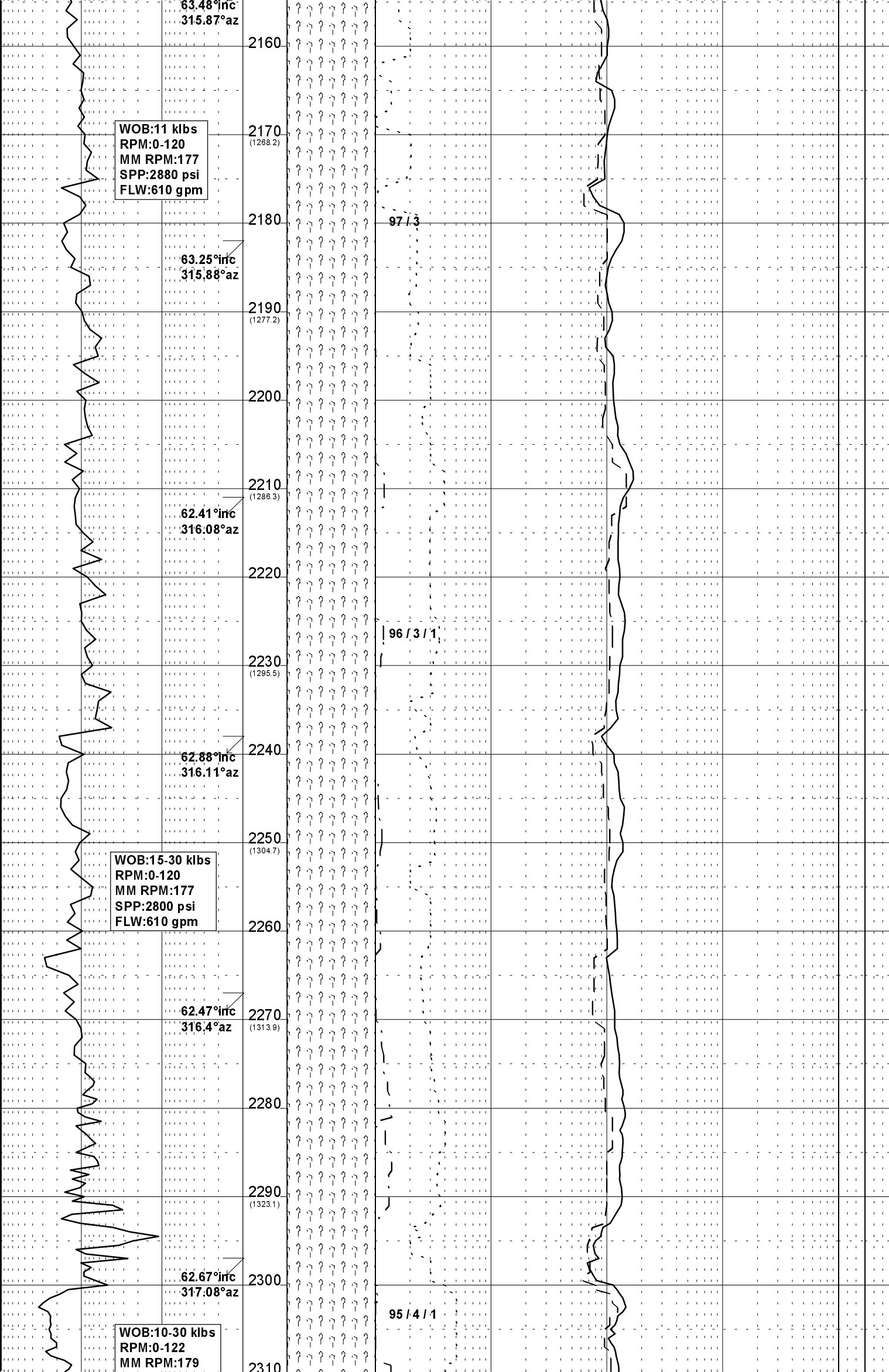
CLAYSTONE:lt olv gy-occ med gy,  
lt gy i/p,calc,tr ooid,tr nod py  
pyr,frm,occ sft,sbblky-blky.



CLAYSTONE:lt gy-lt bn gy,med dk  
gy i/p,calc,tr slty i/p,tr ooid,  
tr-loc com dissem pyr,tr carb  
spk,frm-com sft,sbbiky.

CLAYSTONE:lt gy-lt bn gy,occ  
med gy,calc,tr slty,occ nod pyr,  
mnr ooid,sft-frm,sbbiky.

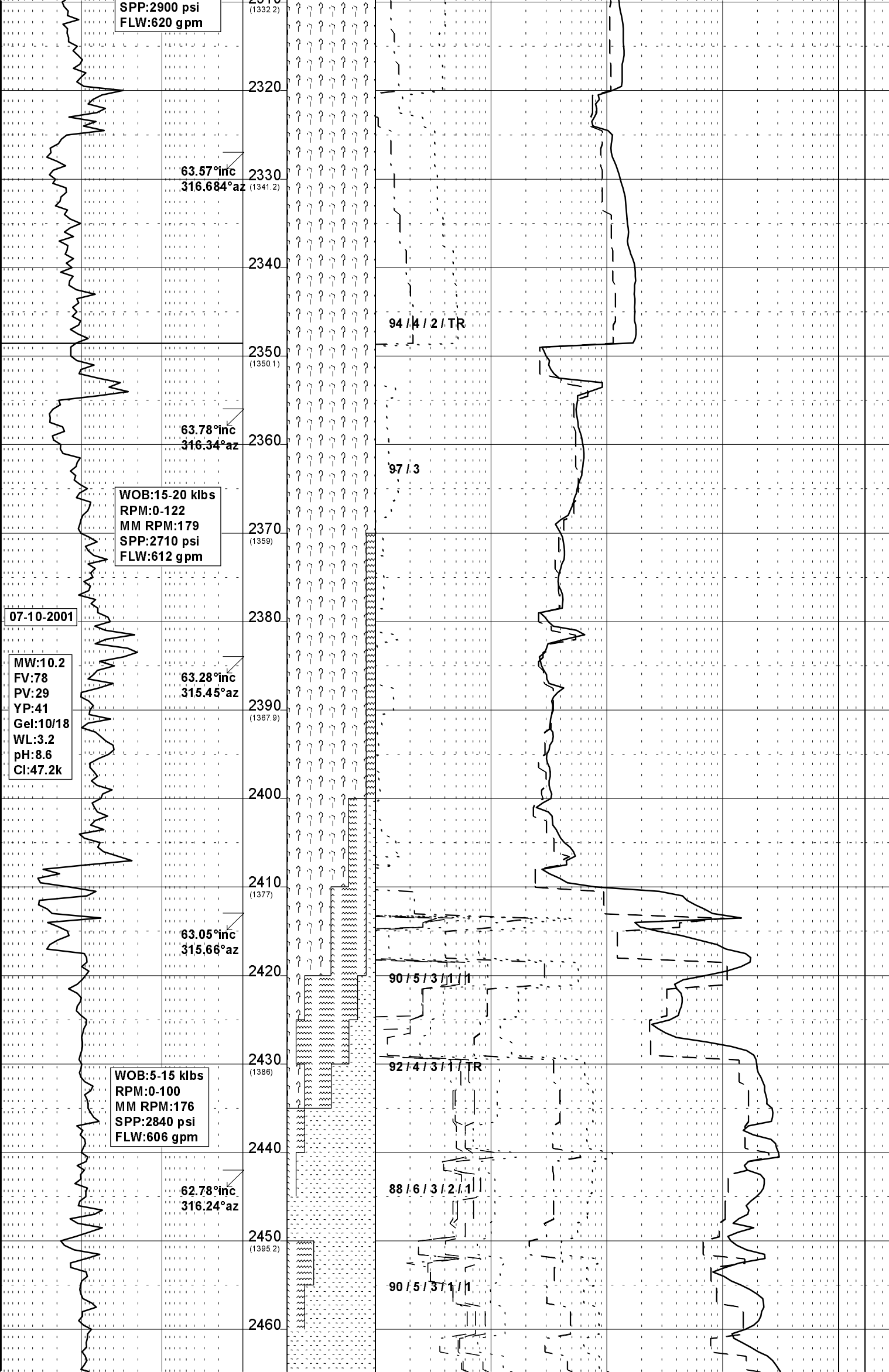
CLAYSTONE:lt gy-lt bn gy,occ lt  
gn gy,occ med gy,calc,tr slty,  
tr nod pyr,tr dissem glauc,mnr  
ooid,frm,sbbiky.



CLAYSTONE:lt gy-lt bn gy,lt gn  
gy i/p,calc,tr slty,tr nod pyr,  
tr dissem glauc,rr ooid,frm,  
sbbiky-blky.

CLAYSTONE:lt gy-lt bl gy,lt gn  
gy,calc,tr slty,tr dissem & nod  
pyr,tr ooid,sft-frm,sbbiky.

CLAYSTONE:lt-med gy,calc,loc,  
slty,tr dissem & nod pyr,tr ooid  
tr foss frag,sft-frm,sbbiky.



CLAYSTONE:lt-med gy,lt bl gy,lt bn gy,calc,loc slty,tr dissem & nod pyr,tr ooid,tr foss frag,sft frm i/p,sbbiky.

WIPER TRIP TO SHOE @ 2348m

CLAYSTONE:lt gy-med gy i/p,lt gn gy,calc,mnr nod pyr,ooid,frm,sbbiky.

SILTSTONE:med gy,arg i/p,tr vf aren,calc,tr carb spk,tr dissem pyr,frm,sbbiky-blky.

SILTSTONE:lt gy bn-med bn,arg,tr f aren,glauc,occ nod pyr,occ frm sbbiky-amor.

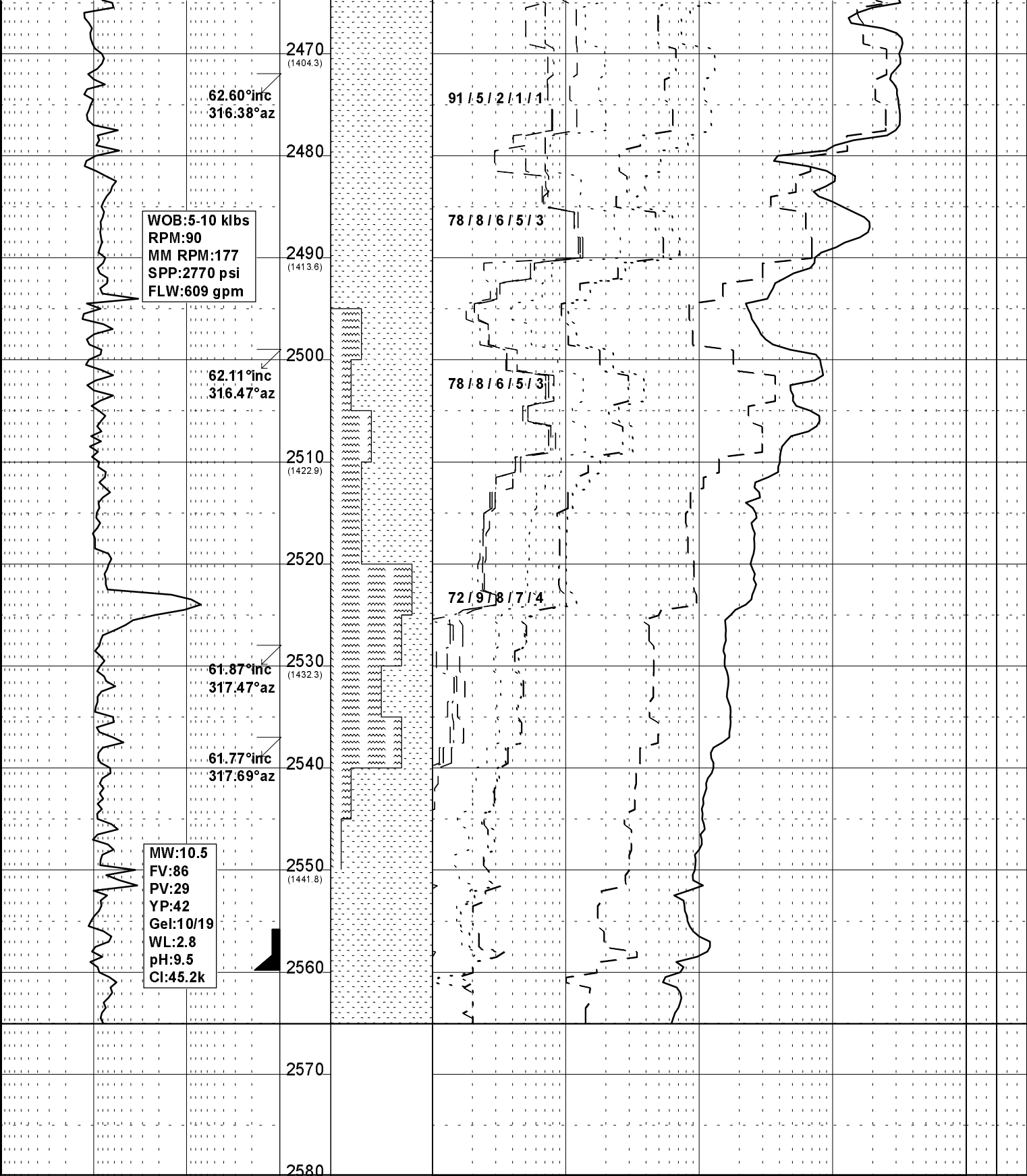
CLAYSTONE:pl yel org-dk yel org,lt bn,mott gn gy,aren i/p,nod glauc,tr nod pyr,occ med qtz grn v sft,sbbiky,amor.

SANDSTONE:trnsi-clr,occ opq,med-crs,pr srt,sa-sr,tr pl gy slty mtz,tr sil cmt,tr nod glauc,pred cln & lse,fr-gd info por,no fluor.

SANDSTONE:trnsi-clr,occ opq,crs,occ v crs,pr srt,sa-sr,tr sil cmt,occ pyr cmt,pred cln & lse, no fluor.

SILTSTONE:med bn-dk bn,occ bn blk,carb,frm,sbfiss-fiss.





SANDSTONE:clr-trnsl,opq,med-crs,  
pred med,occ v crs,pr srt,sr,tr  
sil cmt,rr pyr cmt,cln & lse,  
fr-gd inf por,no fluor.

SANDSTONE:trnsl,opq,occ mlky,  
med-crs,pr srt,sa-sr,mnr pyr cmt  
occ nod pyr,pred cln,lse,v gd  
inf por,no fluor.

SILTSTONE:lt-med bn,brn gy,lt gy  
v arg,com carb,micmic,v sft-sft,  
disp,amor.

SANDSTONE:clr-trnsl,opq,f-crs,  
dom med-crs,pr srt,sa-sr,occ pyr  
cmt,mnr arg mtx,tr-rr nod pyr,  
gen cln,lse,gd inf por,no fluor

SANDSTONE:clr-trnsl,opq,rr mlky,  
f-dom med-crs,pr srt,sa-sr,occ  
pyr cmt,tr nod pyr,cln,lse,gd  
inf por,no fluor.

7" Casing Shoe @ 2559.8m

Projected Survey @ 2565m  
Incl: 61.54° Azm: 318.2°  
TVD: 1448.91m

WEST TUNA W-3 REACHED TD  
@ 2565mdRT (1448.91mTVDRT)  
@ 10:00 HRS ON 07-10-2001