

BIT #1RR: VAREL L114  
SIZE: 17.5" JETS: 3x20  
IN: SPUD OUT: 262m  
RUN: 262m HRS: 3.7  
COND: 3-3-SS-A-3-1-ER-CTD

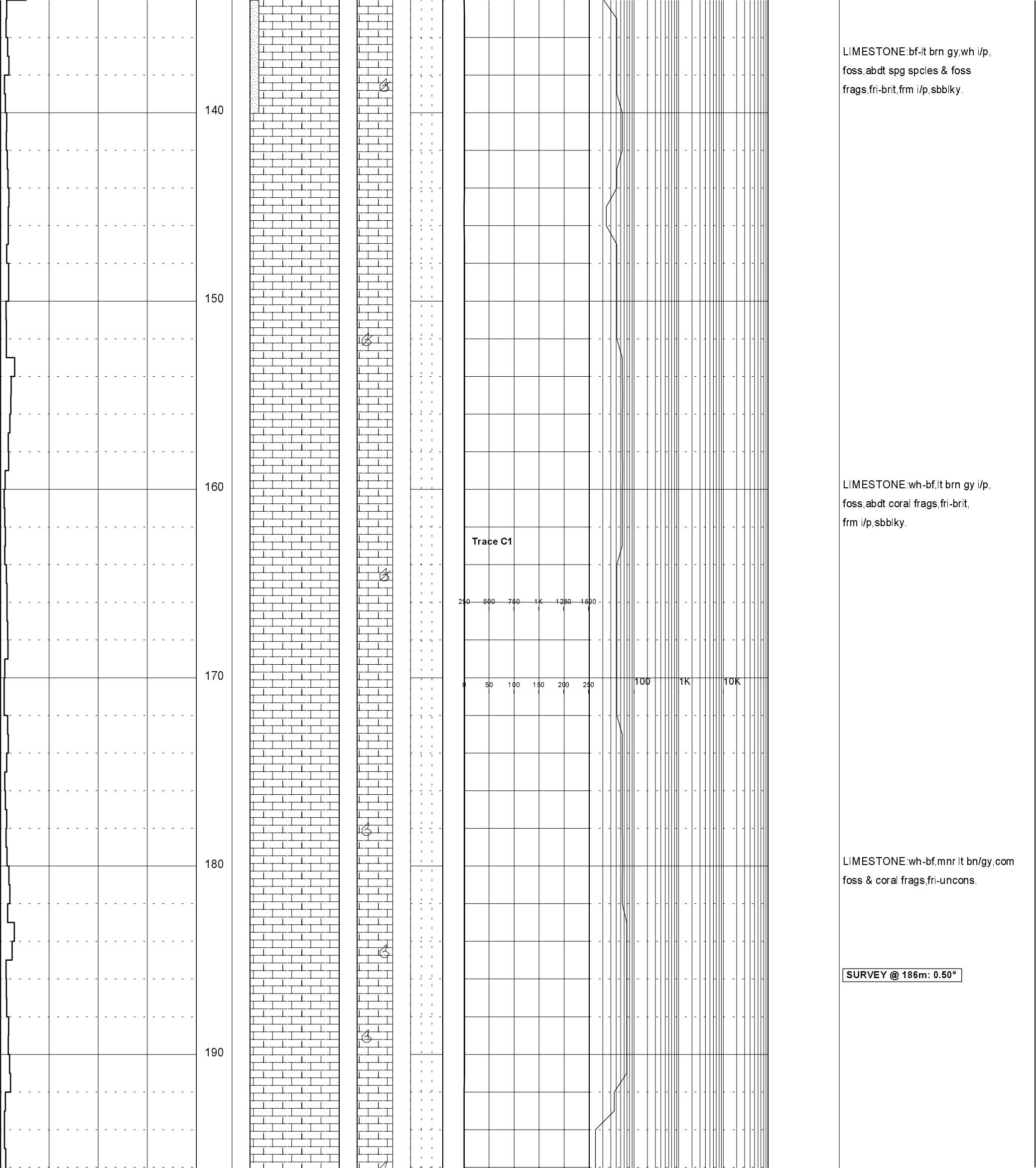
SURVEY @ 28m: 0.00°

SANDSTONE:clr-trnsl,occ yel & rd  
Fe stnd qtz,mnr dk gy,med-v crs,  
dom crs-v crs,mod pr srt,ang-sr,  
wk sil cmt,nil-tr arg mtz,com  
qtz ovgths,lse,r fri aggs,exc  
inf & vis por.

SANDSTONE:gen a/a,dm yel Fe  
stnd qtz,med-crs,ang-sa,tr carb  
spks.

SURVEY @ 65m: 0.50°





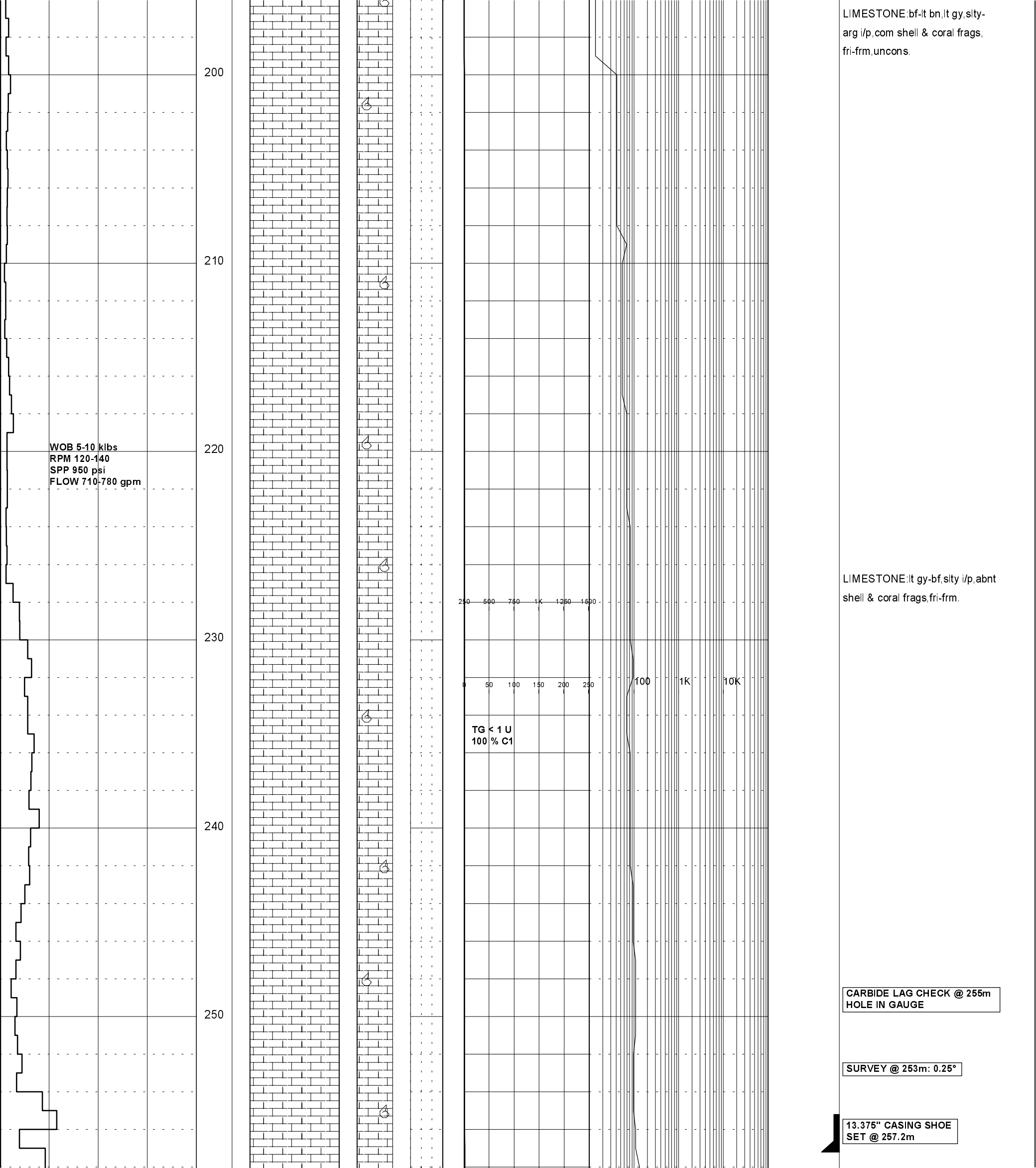
LIMESTONE:bf-lt brn gy,wh i/p,  
foss,abdt spg spcles & foss  
frags,fri-brit,frm i/p,sbblky.

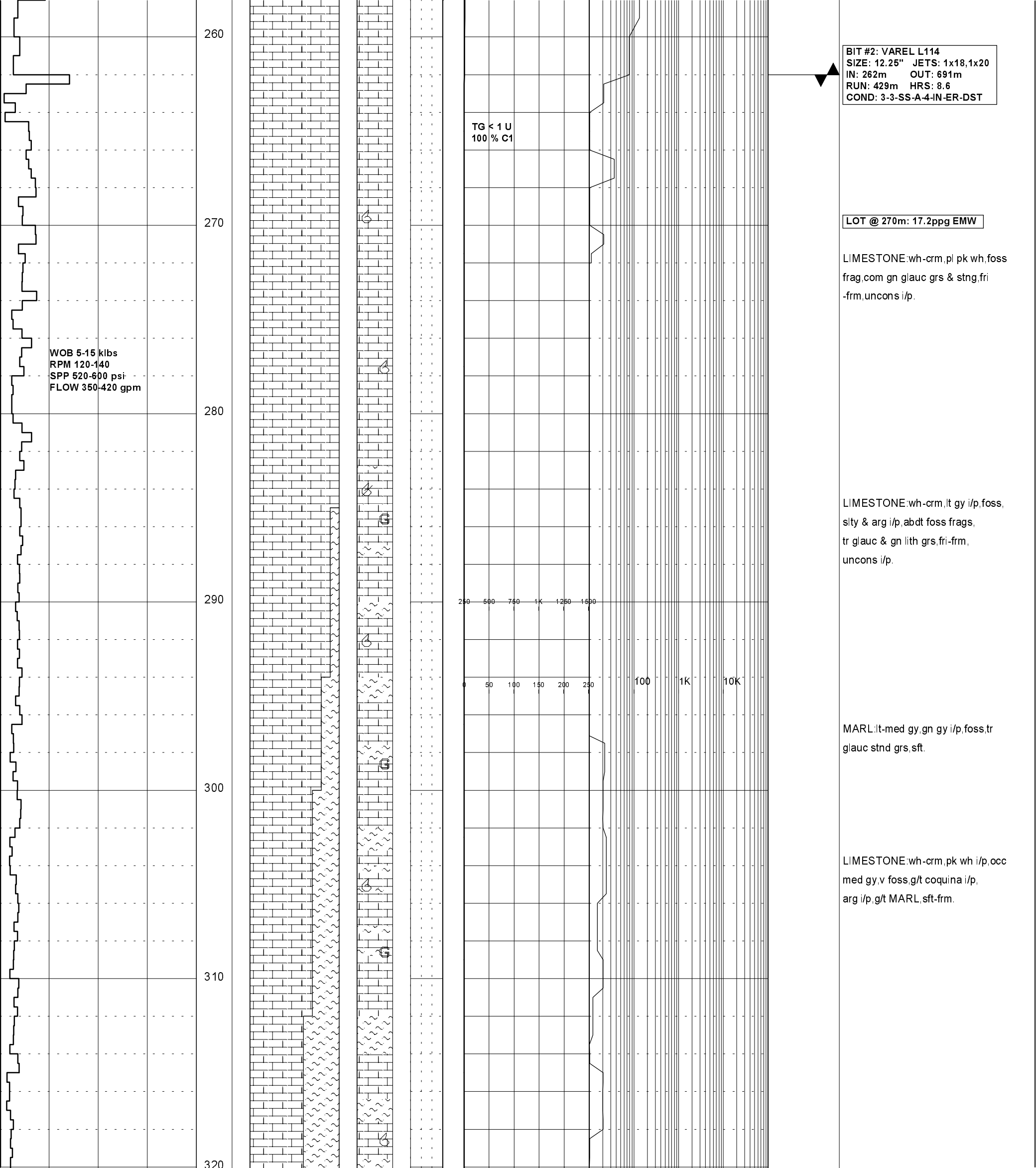
LIMESTONE:wh-bf,lt brn gy i/p,  
foss,abdt coral frags,fri-brit,  
frm i/p,sbblky.

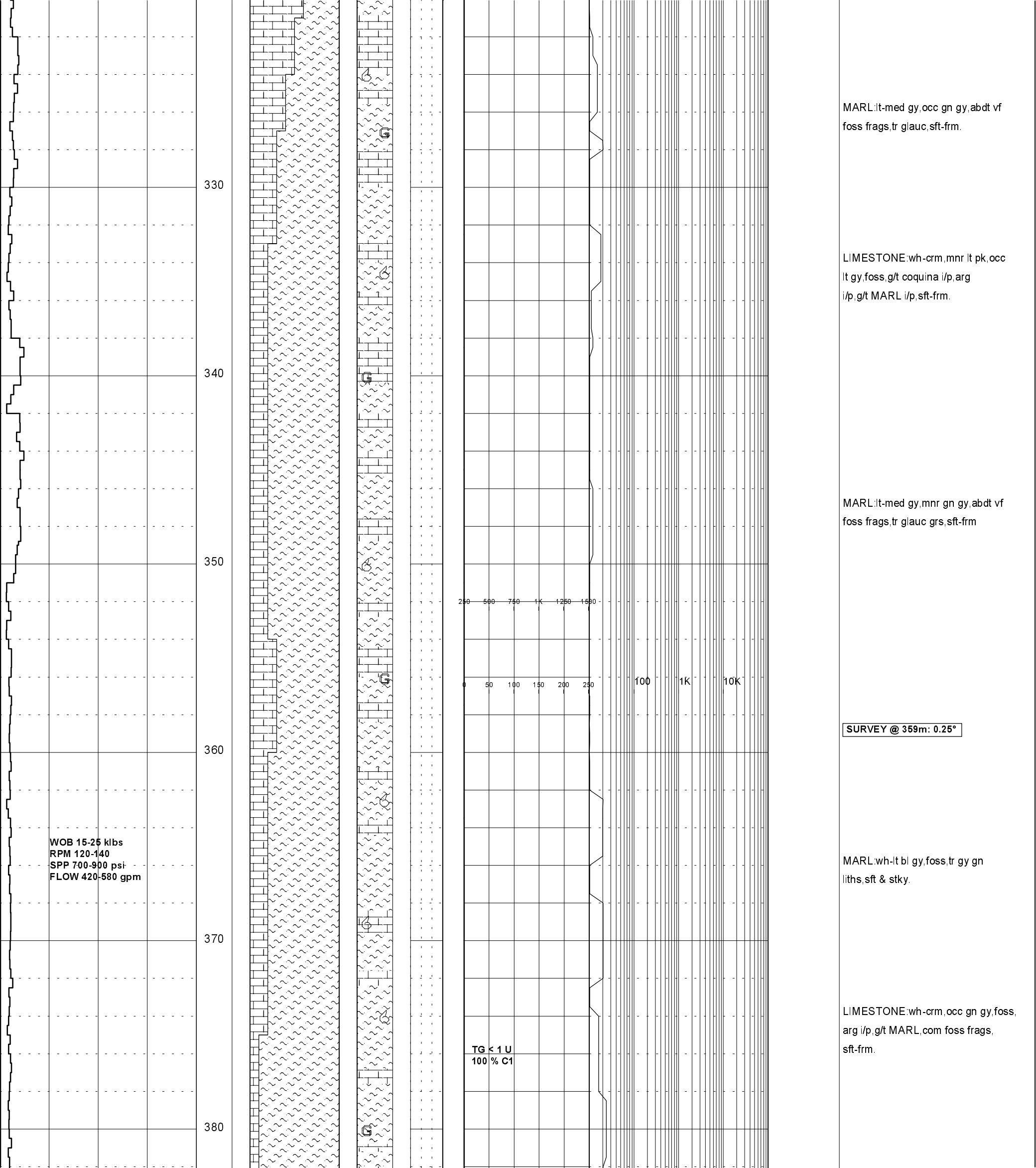
LIMESTONE:wh-bf,mnr lt bn/gy,com  
foss & coral frags,fri-uncons.

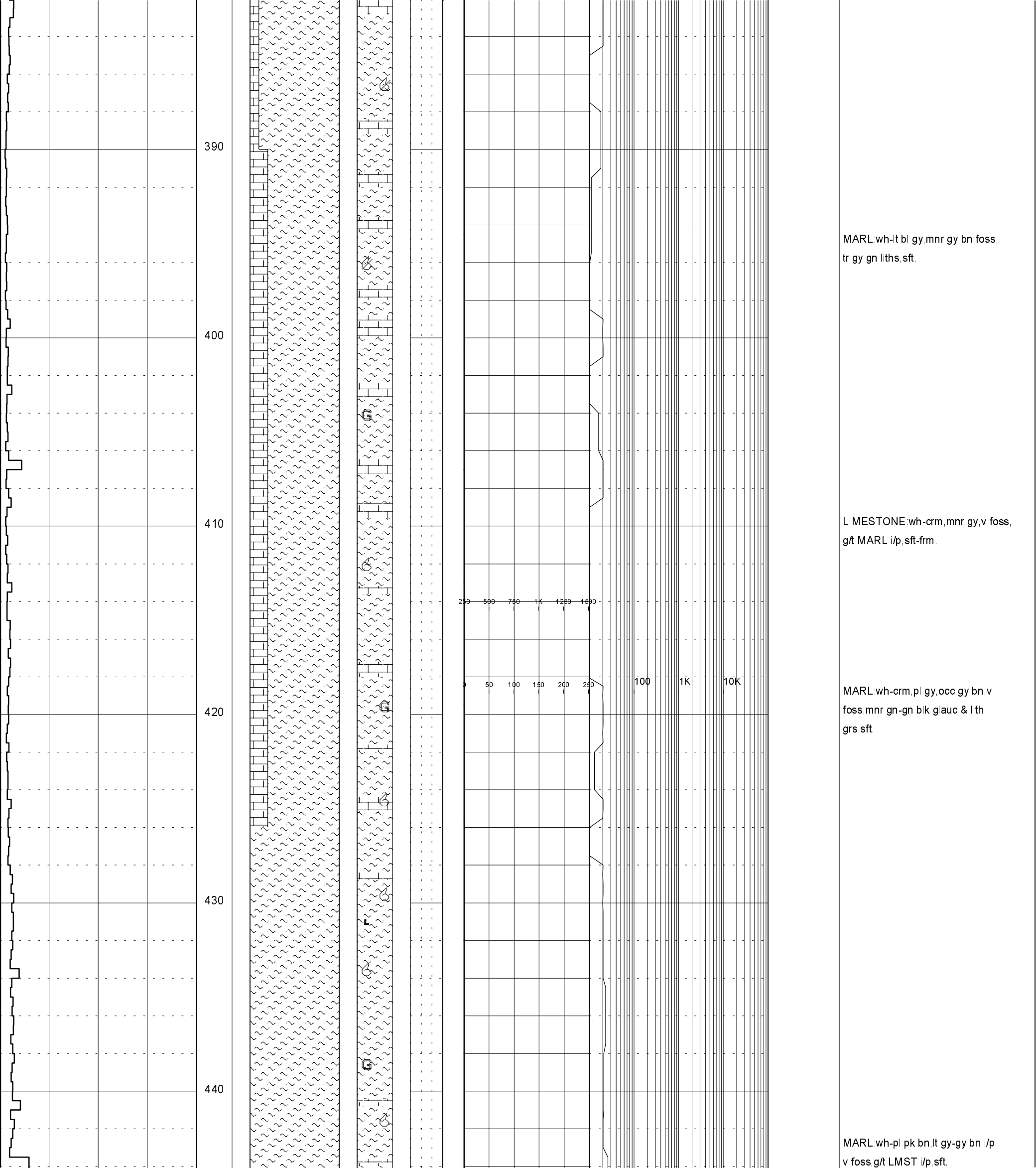
SURVEY @ 186m: 0.50°

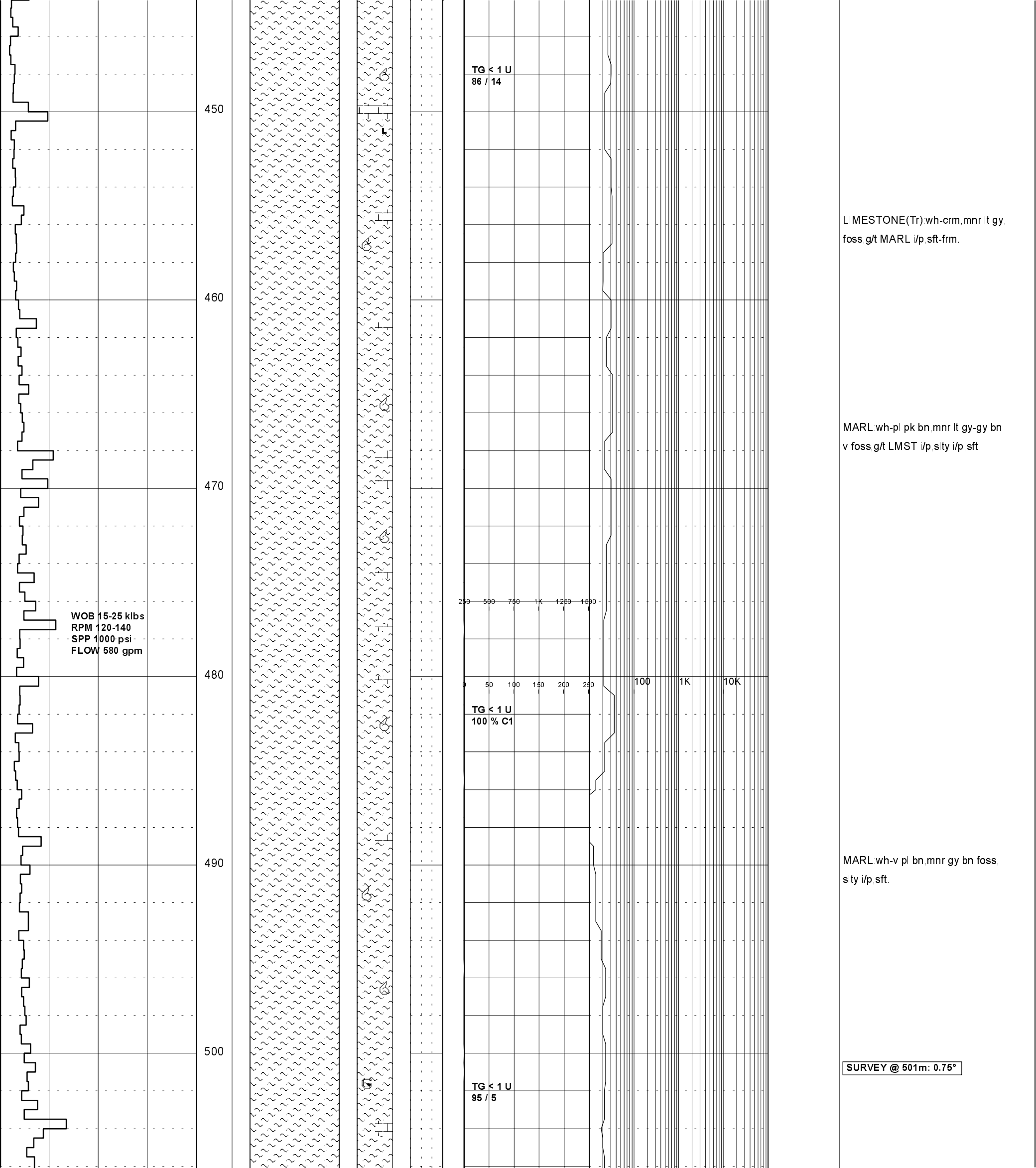


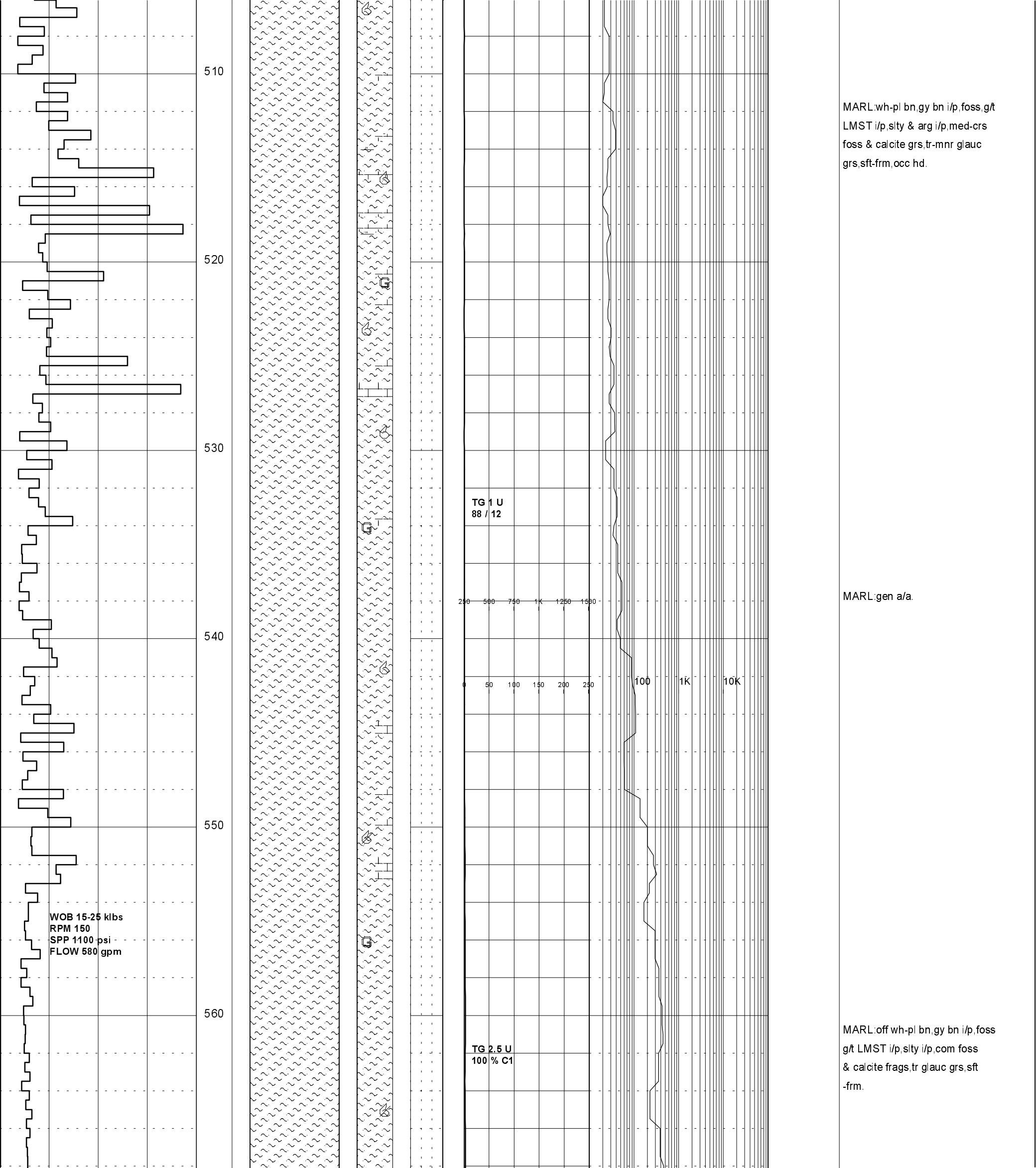


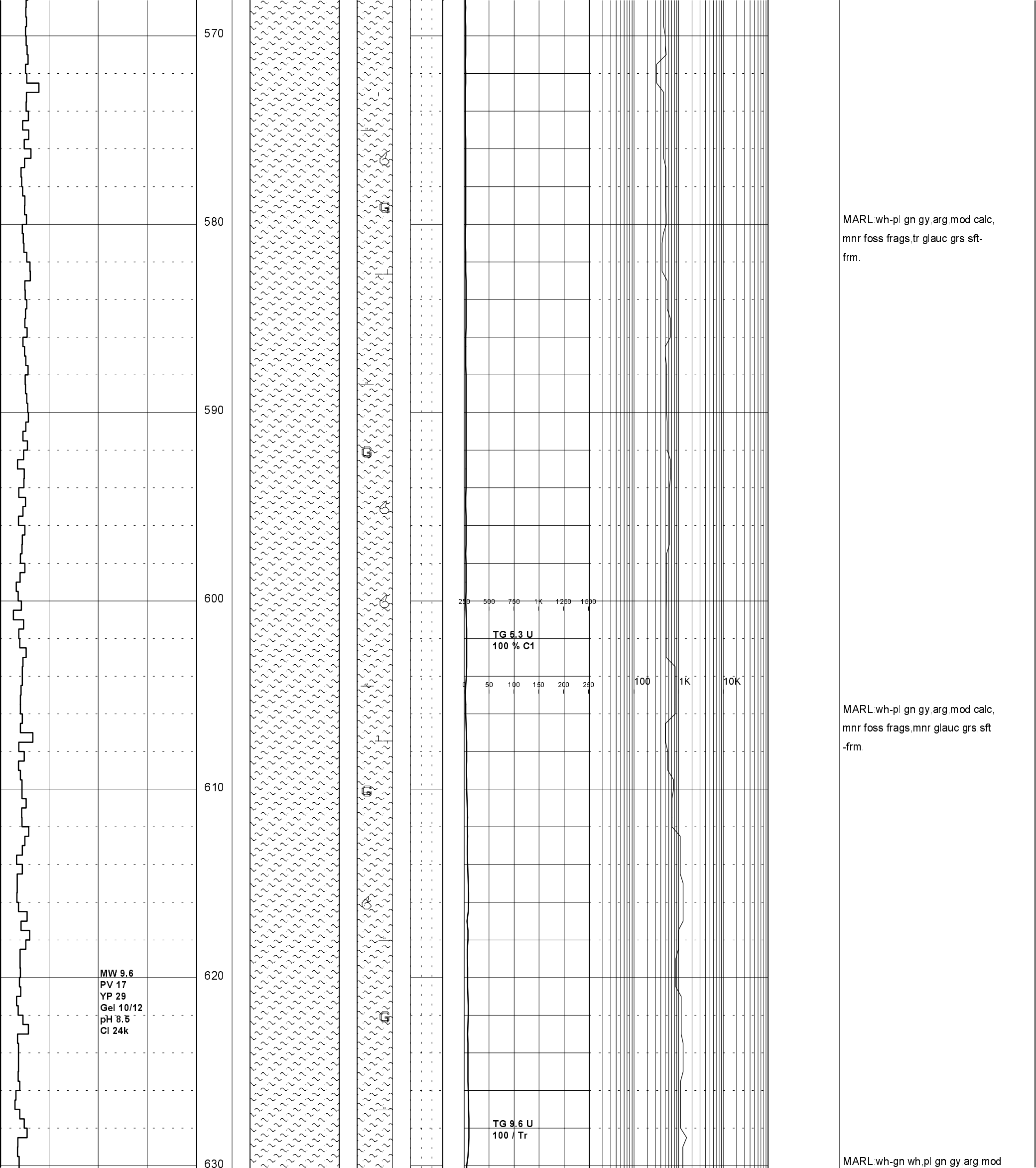


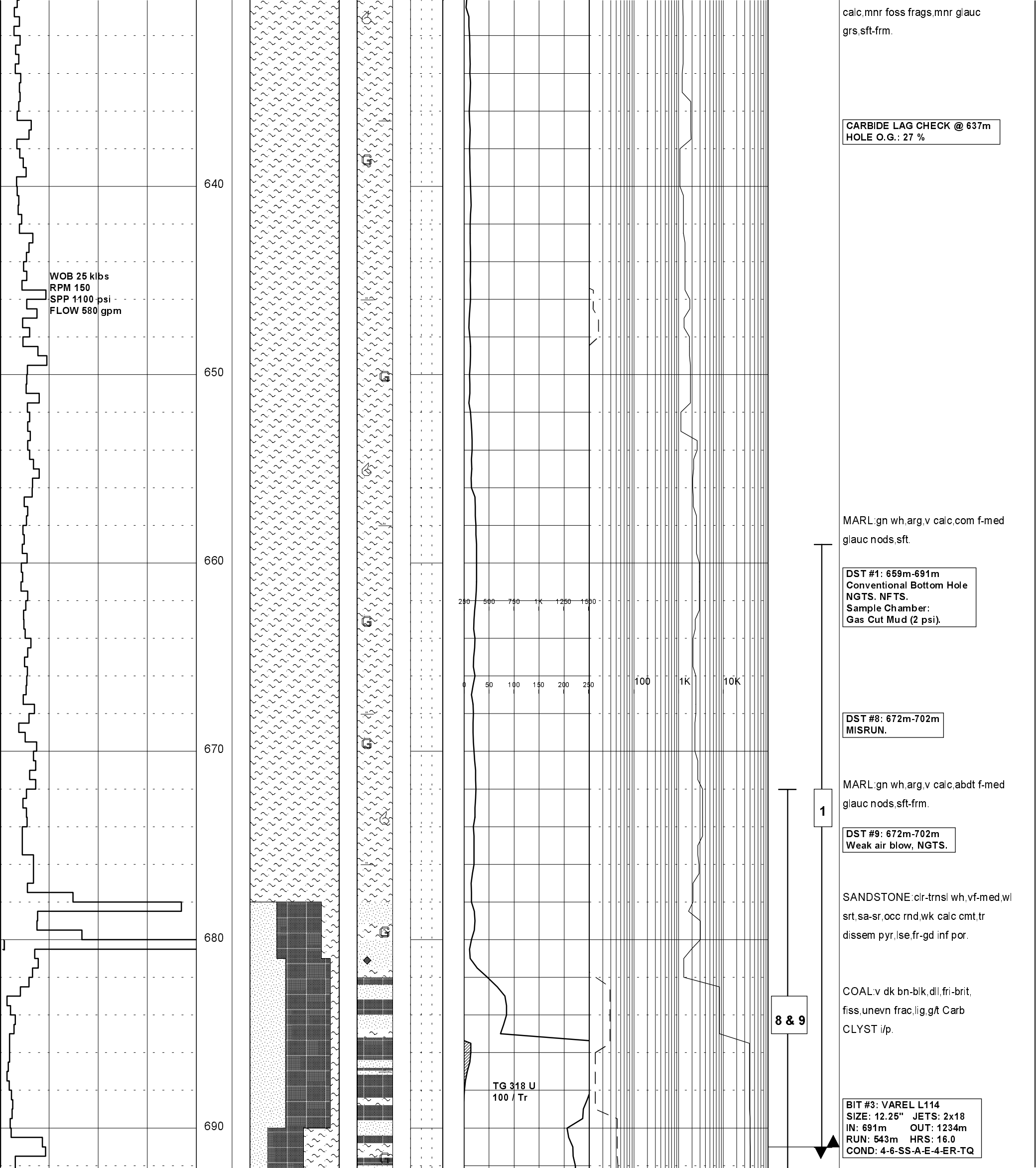




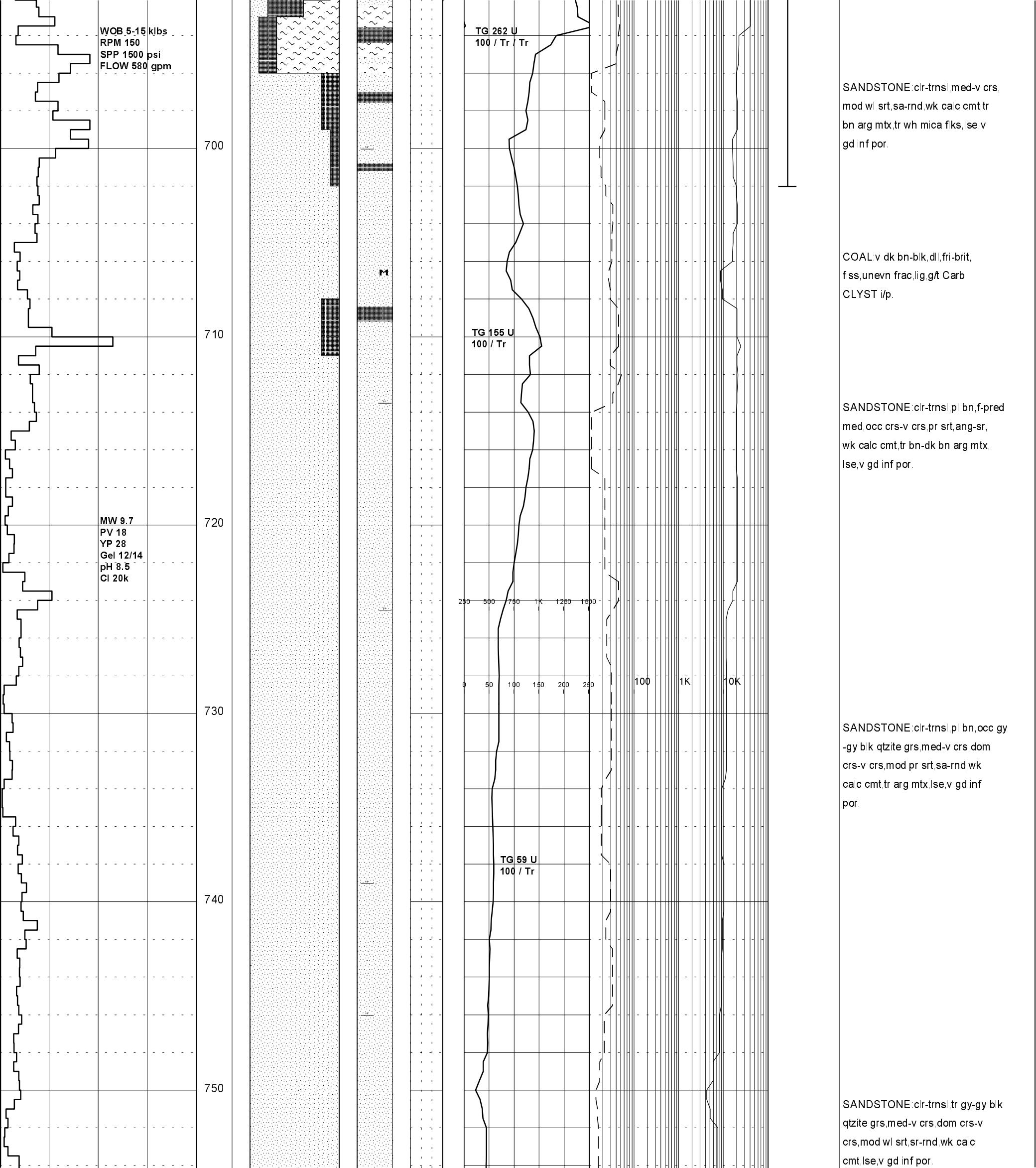


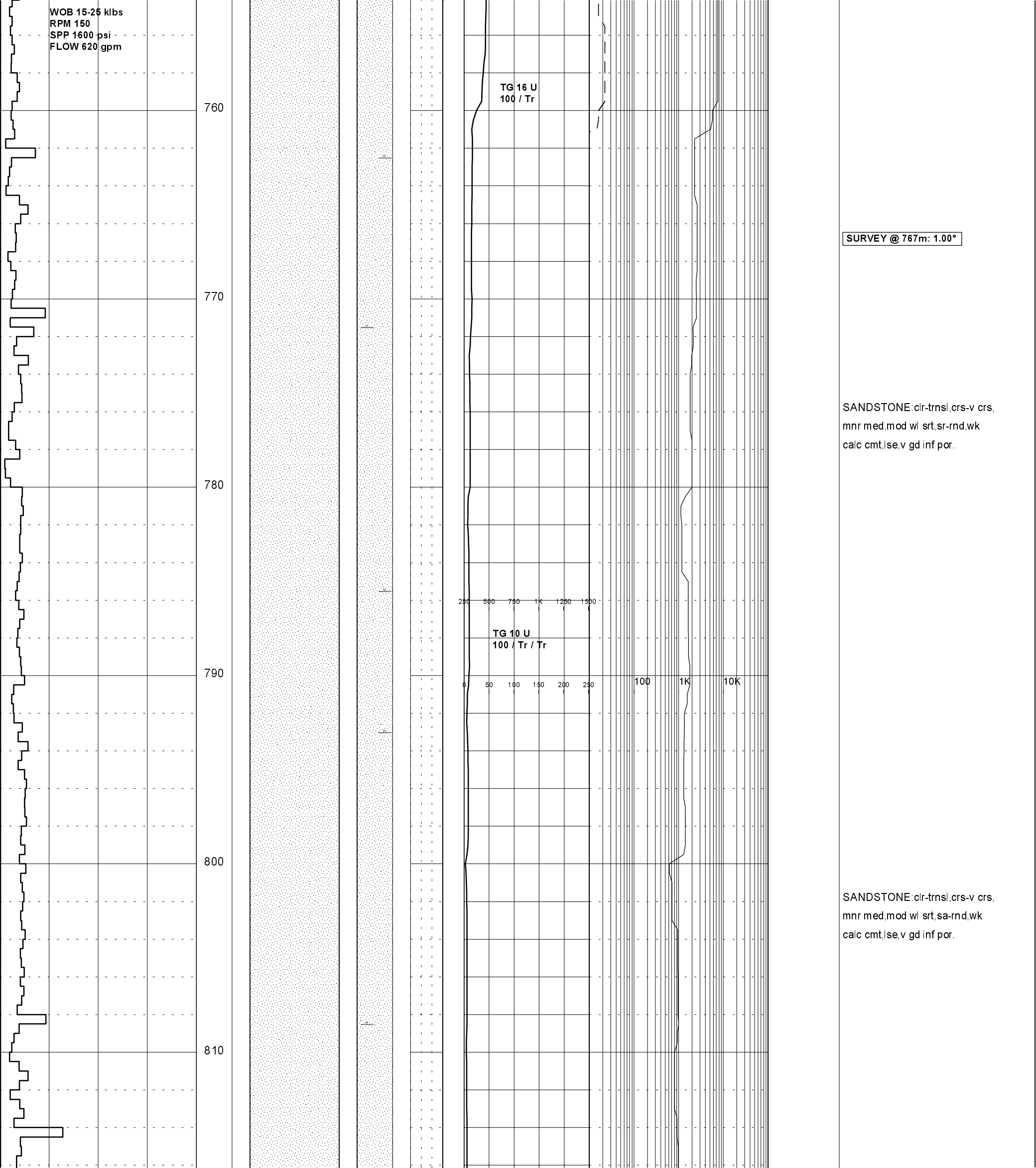


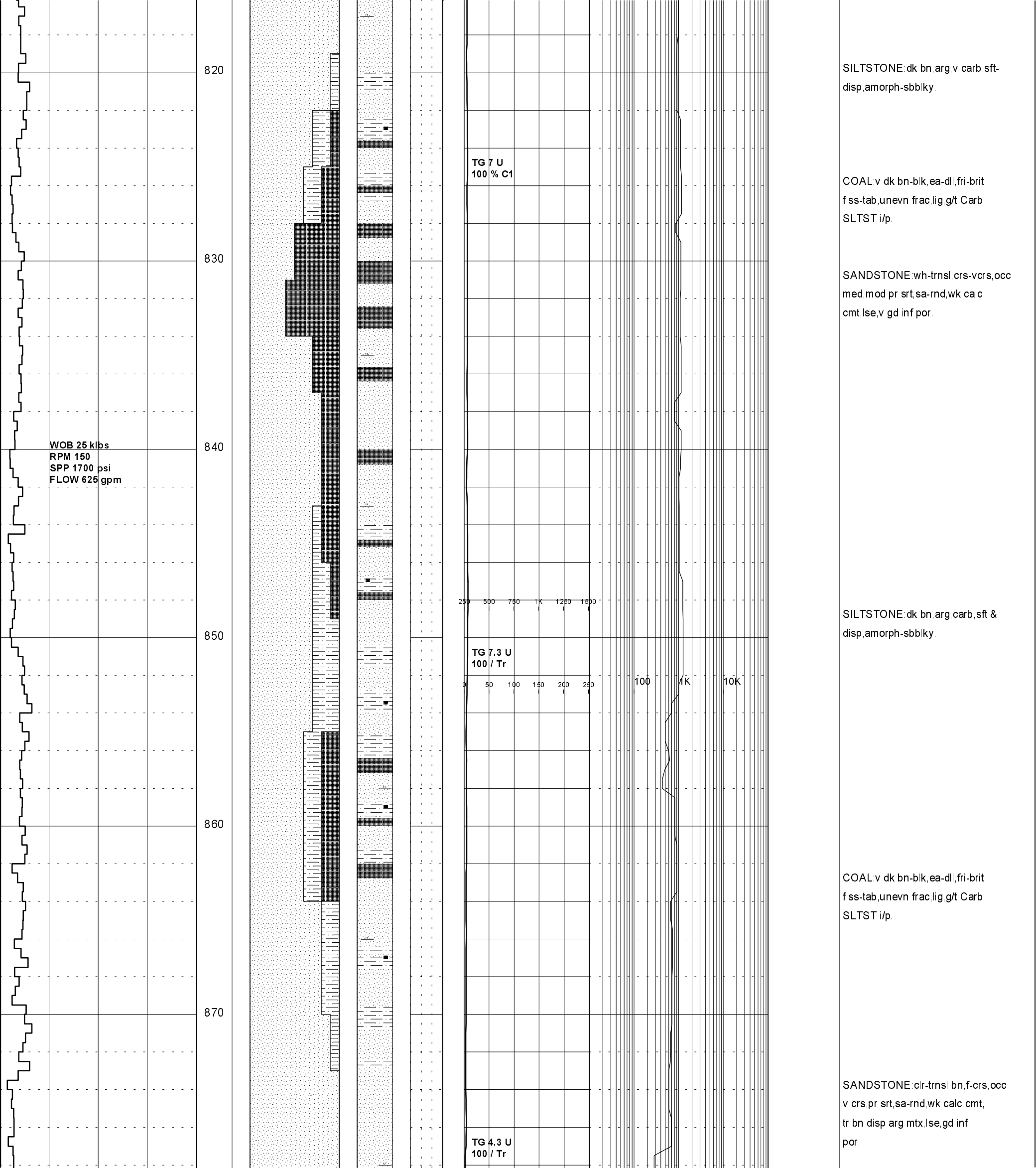


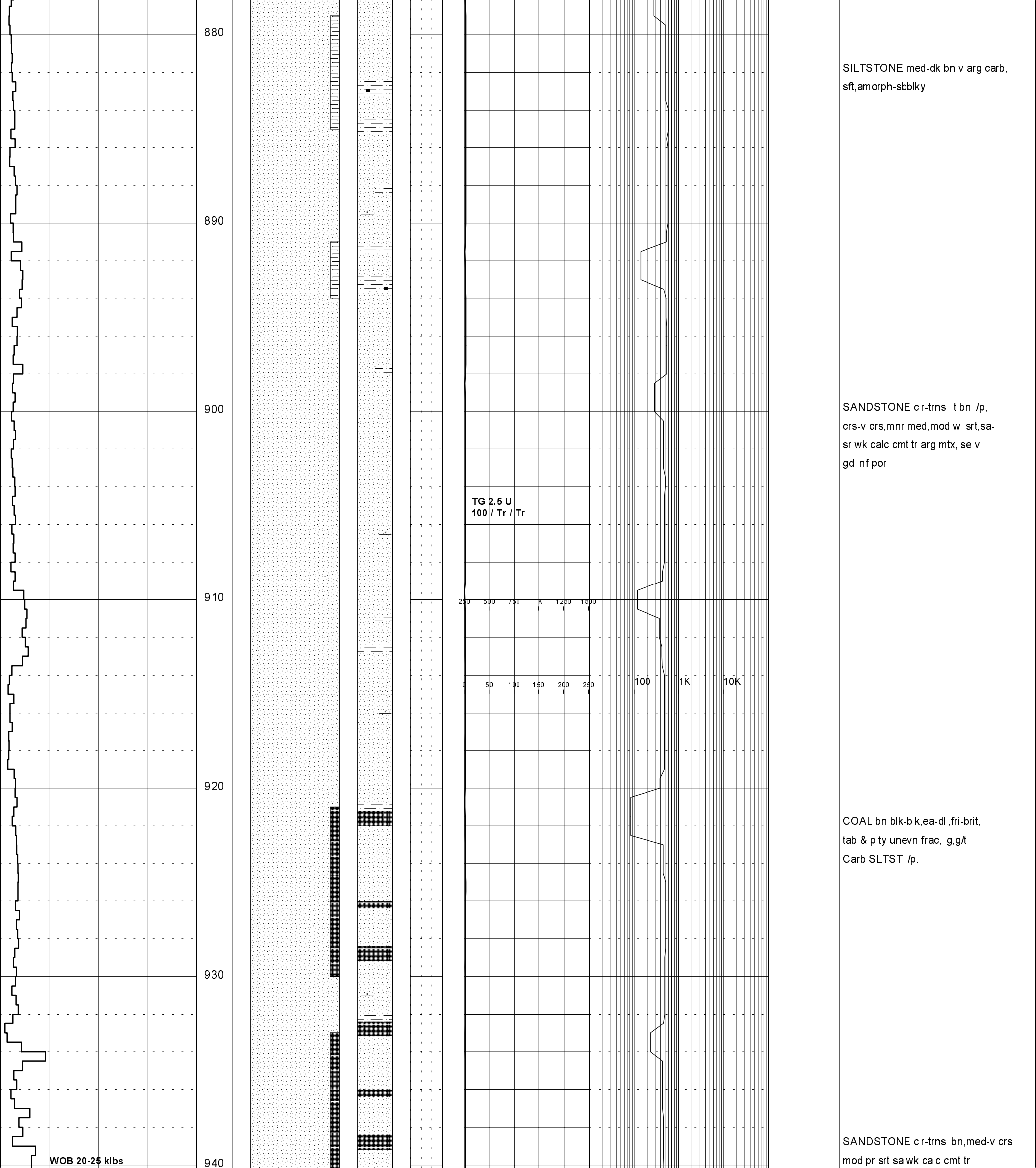












RPM 150  
SPP 1700 psi  
FLOW 620 gpm

950

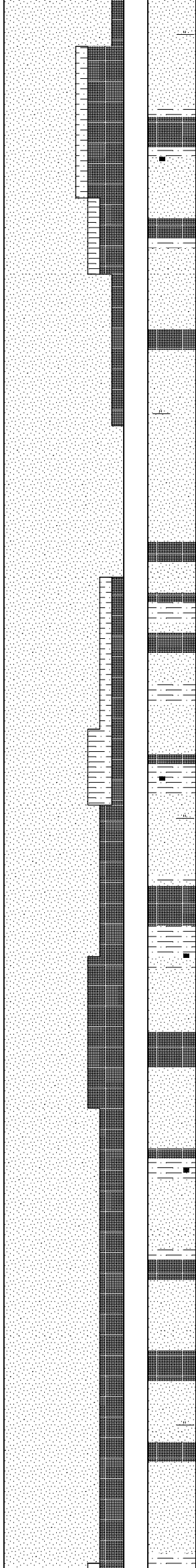
960

970

980

990

1000



The figure displays three DSC thermograms arranged in a 3x3 grid. The top row shows TG 2.9 U, the middle row shows TG 6.1 U, and the bottom row shows TG 6.2 U. Each plot has a y-axis labeled 'mW' ranging from 0 to 240 and an x-axis labeled '°C' ranging from 250 to 1500. The plots show various thermal transitions, including glass transitions and crystallization exotherms.

The figure displays three DSC thermograms arranged in a 3x3 grid. The top row shows TG 2.9 U, the middle row shows TG 6.1 U, and the bottom row shows TG 6.2 U. Each plot has a y-axis labeled 'mW' ranging from 0 to 240 and an x-axis labeled '°C' ranging from 250 to 1500. The plots show various thermal transitions, including glass transitions and crystallization exotherms.

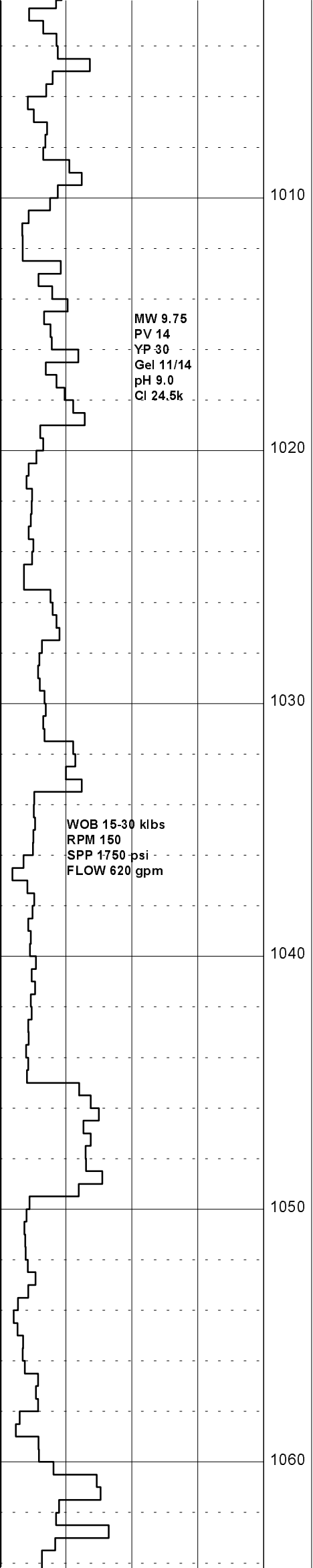
The figure displays three DSC thermograms arranged in a 3x3 grid. The top row shows TG 2.9 U, the middle row shows TG 6.1 U, and the bottom row shows TG 6.2 U. Each plot has a y-axis labeled 'mW' ranging from 0 to 240 and an x-axis labeled '°C' ranging from 250 to 1500. The plots show various thermal transitions, including glass transitions and crystallization exotherms.

<p>disp arg mtx,lse,v gd inf por.</p>
<p>SILTSTONE:med-dk bn,v arg,carb, g/t CLYST i/p,sft &amp; disp,amorph- sbbiky.</p>
<p>COAL:bn blk-blk,dll,fri-brit,tab -sbfiss,unevn frac,lig,g/t Carb SLTST i/p.</p>
<p>SANDSTONE:clr-trnsl,lt bn i/p, crs-v crs,mnr med,mod pr srt,sa- sr,wk calc cmt,tr arg mtx,lse,v gd inf por.</p>

<p>disp arg mtx,lse,v gd inf por.</p>
<p>SILTSTONE:med-dk bn,v arg,carb, g/t CLYST i/p,sft &amp; disp,amorph- sbbiky.</p>
<p>COAL:bn blk-blk,dll,fri-brit,tab -sbfiss,unevn frac,lig,g/t Carb SLTST i/p.</p>
<p>SANDSTONE:clr-trnsl,lt bn i/p, crs-v crs,mnr med,mod pr srt,sa- sr,wk calc cmt,tr arg mtx,lse,v gd inf por.</p>

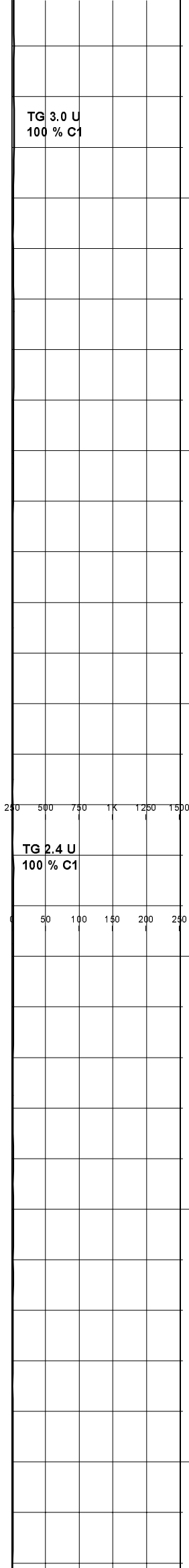
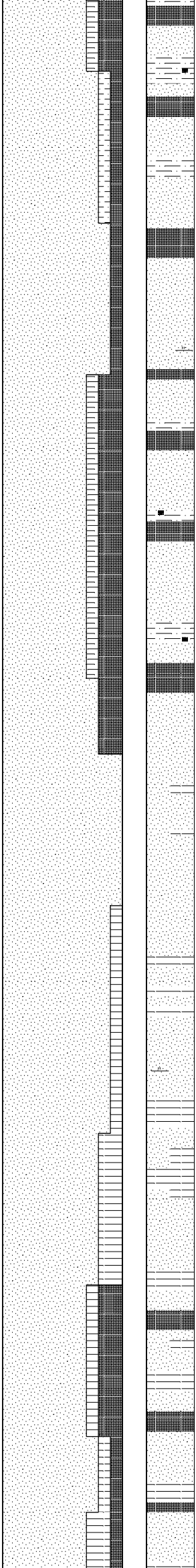
<p>disp arg mtx,lse,v gd inf por.</p>
<p>SILTSTONE:med-dk bn,v arg,carb, g/t CLYST i/p,sft &amp; disp,amorph- sbbiky.</p>
<p>COAL:bn blk-blk,dll,fri-brit,tab -sbfiss,unevn frac,lig,g/t Carb SLTST i/p.</p>
<p>SANDSTONE:clr-trnsl,lt bn i/p, crs-v crs,mnr med,mod pr srt,sa- sr,wk calc cmt,tr arg mtx,lse,v gd inf por.</p>

<p>disp arg mtx,lse,v gd inf por.</p>
<p>SILTSTONE:med-dk bn,v arg,carb, g/t CLYST i/p,sft &amp; disp,amorph- sbbiky.</p>
<p>COAL:bn blk-blk,dll,fri-brit,tab -sbfiss,unevn frac,lig,g/t Carb SLTST i/p.</p>
<p>SANDSTONE:clr-trnsl,lt bn i/p, crs-v crs,mnr med,mod pr srt,sa- sr,wk calc cmt,tr arg mtx,lse,v gd inf por.</p>



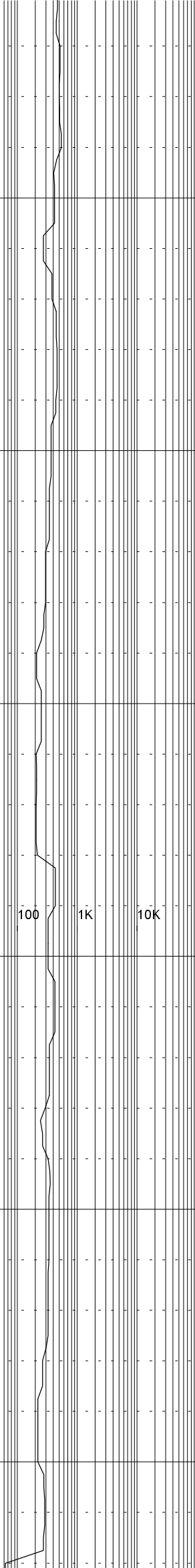
MW 9.75  
PV 14  
YP 30  
Gel 11/14  
pH 9.0  
Cl 24.5k

WOB 15-30 klbs  
RPM 150  
SPP 1750 psi  
FLOW 620 gpm



TG 3.0 U  
100 % C1

TG 2.4 U  
100 % C1



SILTSTONE:wh-lt bn,v arg,carb,  
g/t CLYST i/p,sft & disp,amorph-  
sbbiky.

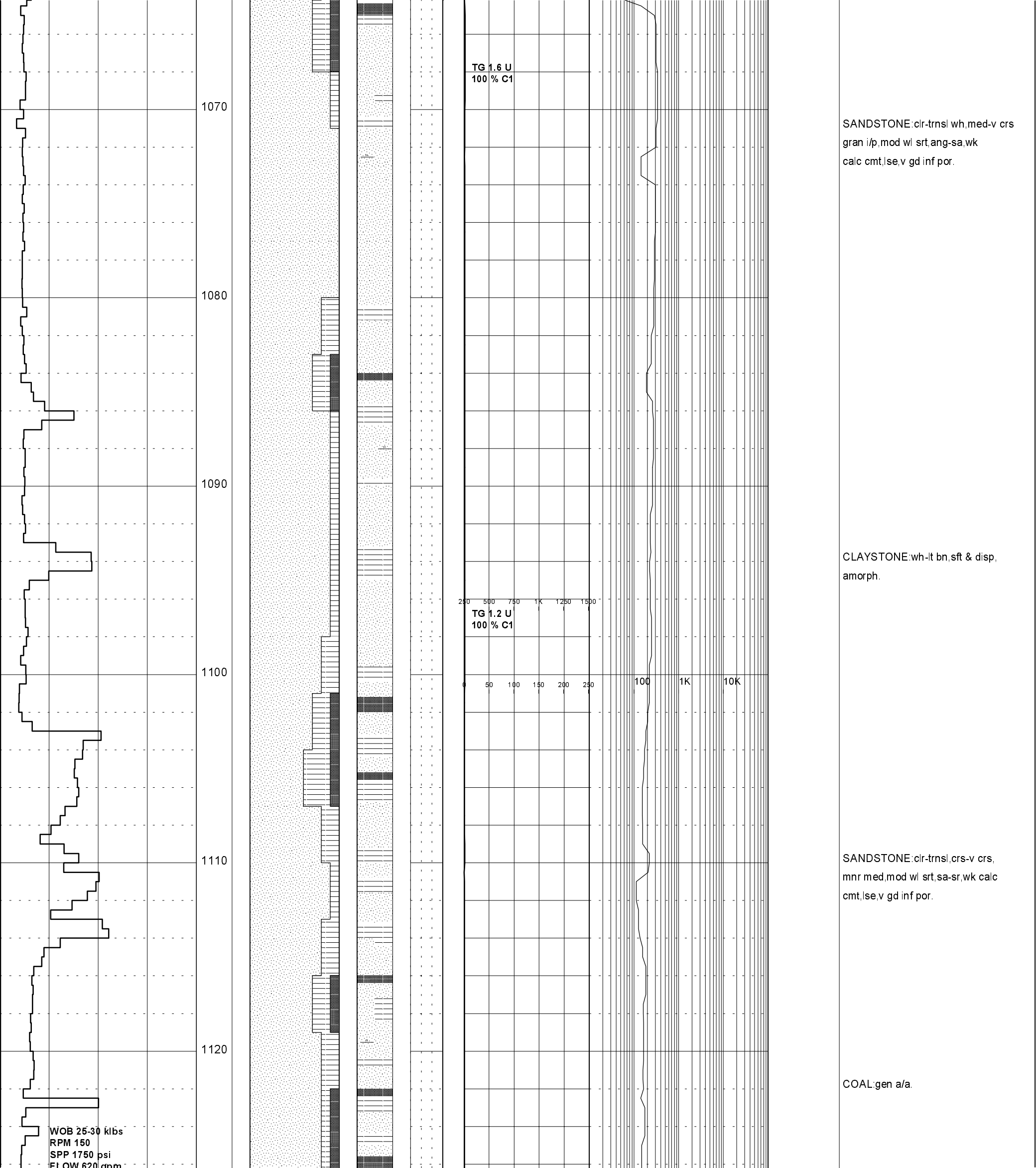
SURVEY @ 1005m: 0.50°

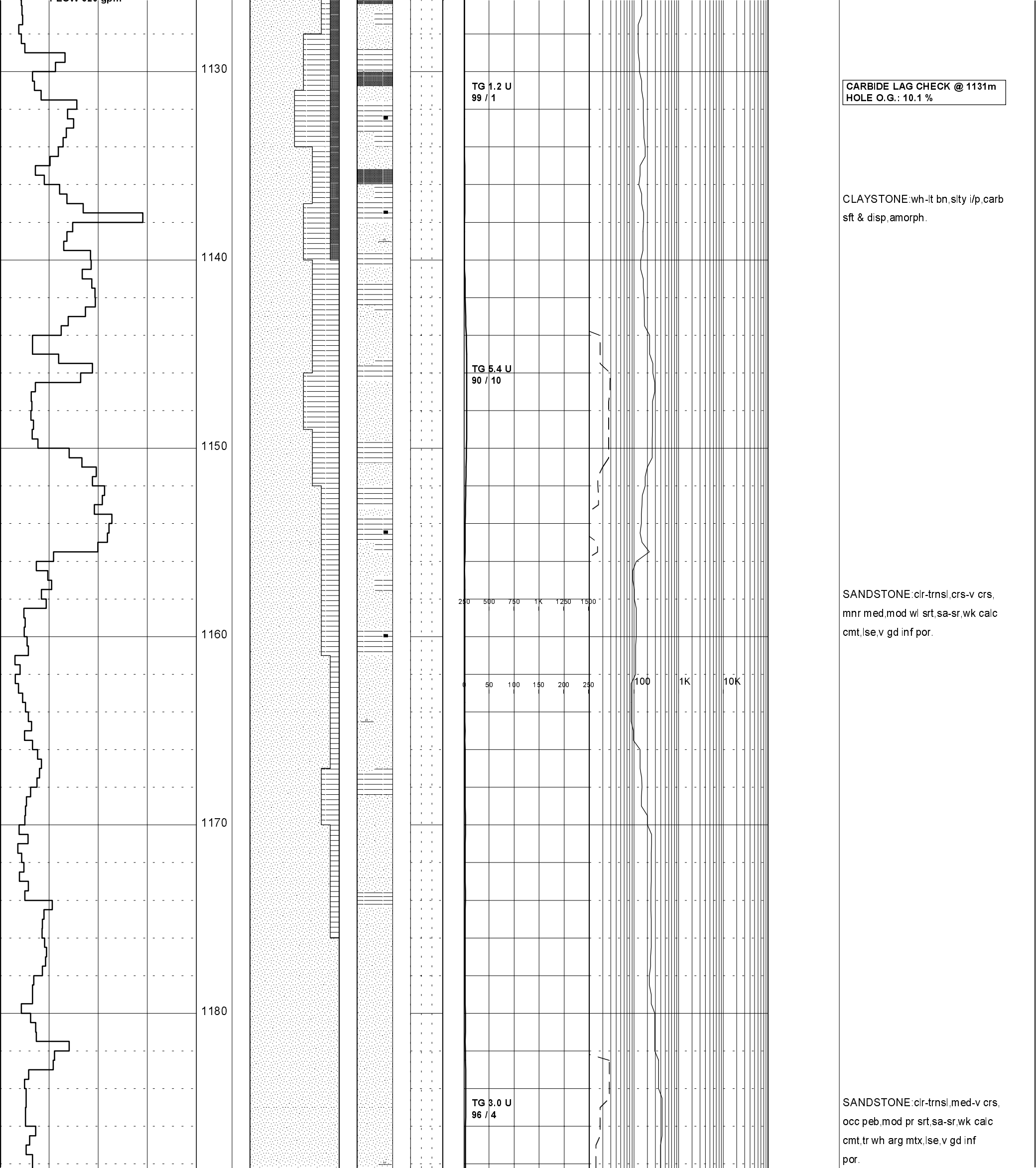
COAL:bn blk-blk,ea-dll,fri-brit,  
fiss-tab,unevn frac,lig,g/t Carb  
SLTST i/p.

SANDSTONE:cr-trnsl,crs-v crs,  
mnr f-med,mod pr srt,sa-sr,wk  
calc cmt,|se,v gd inf por.

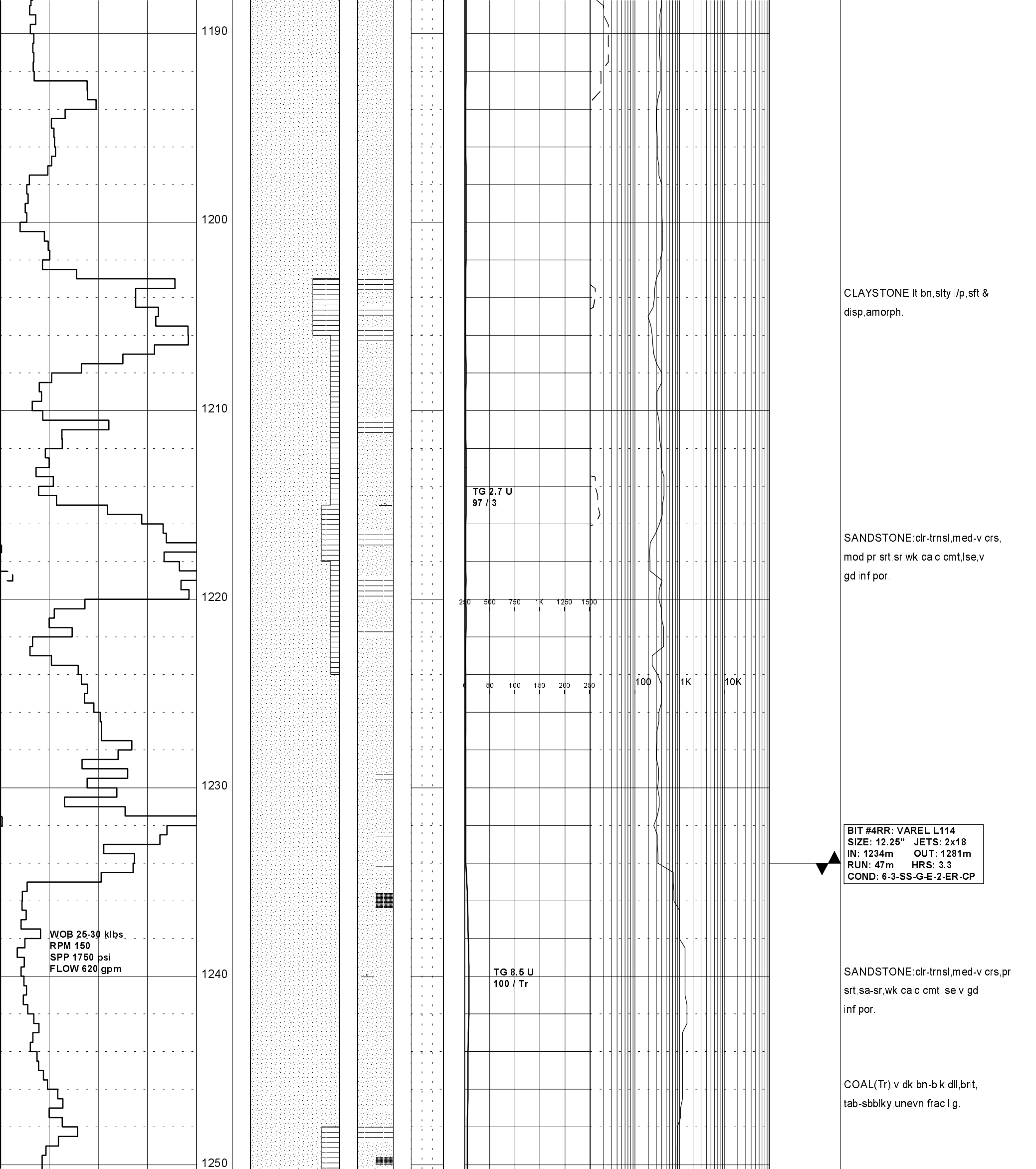
CLAYSTONE:wh,sft & disp,amorph.

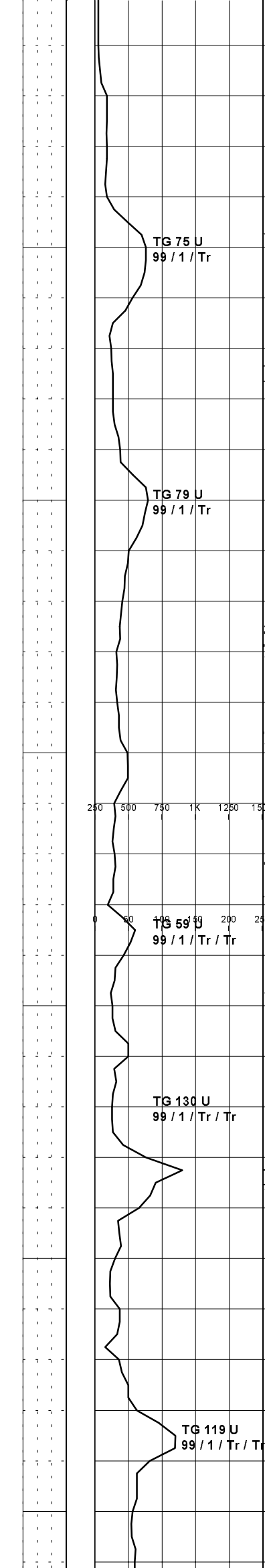
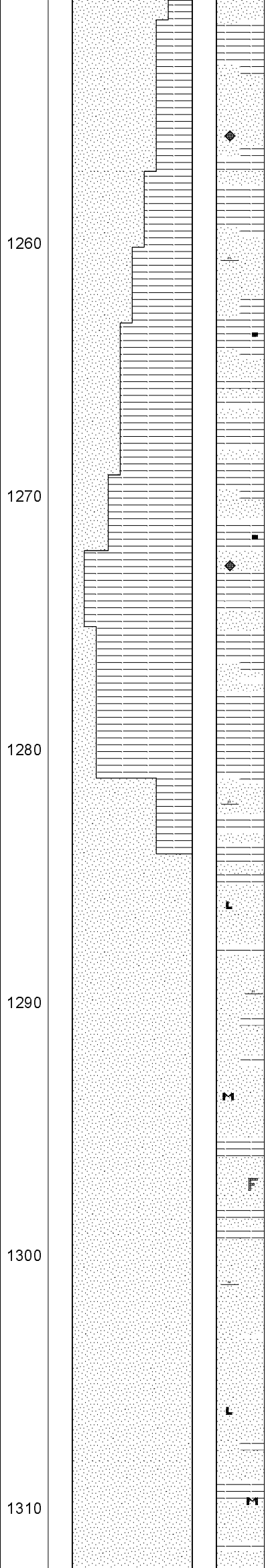
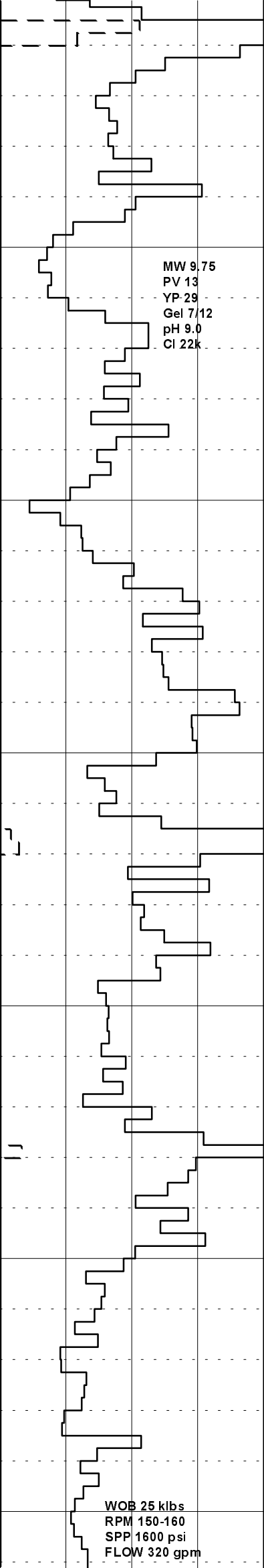
COAL:bn blk-blk,dll,fri-brit,  
fiss-tab,unevn frac,lig.











CLAYSTONE: wh-pl gy bn, slty i/p,  
sft & disp, amorph.

CLAYSTONE: a/a & lt-med gn-gy gn,  
sft-frn, sbbiky.

SANDSTONE: cir-trnsl, crs-v crs,  
mod wl srt, sa-sr, wk calc cmt, tr  
nod pyr, lse, v gd inf por.

9.625" CASING SHOE  
SET @ 1273.1m

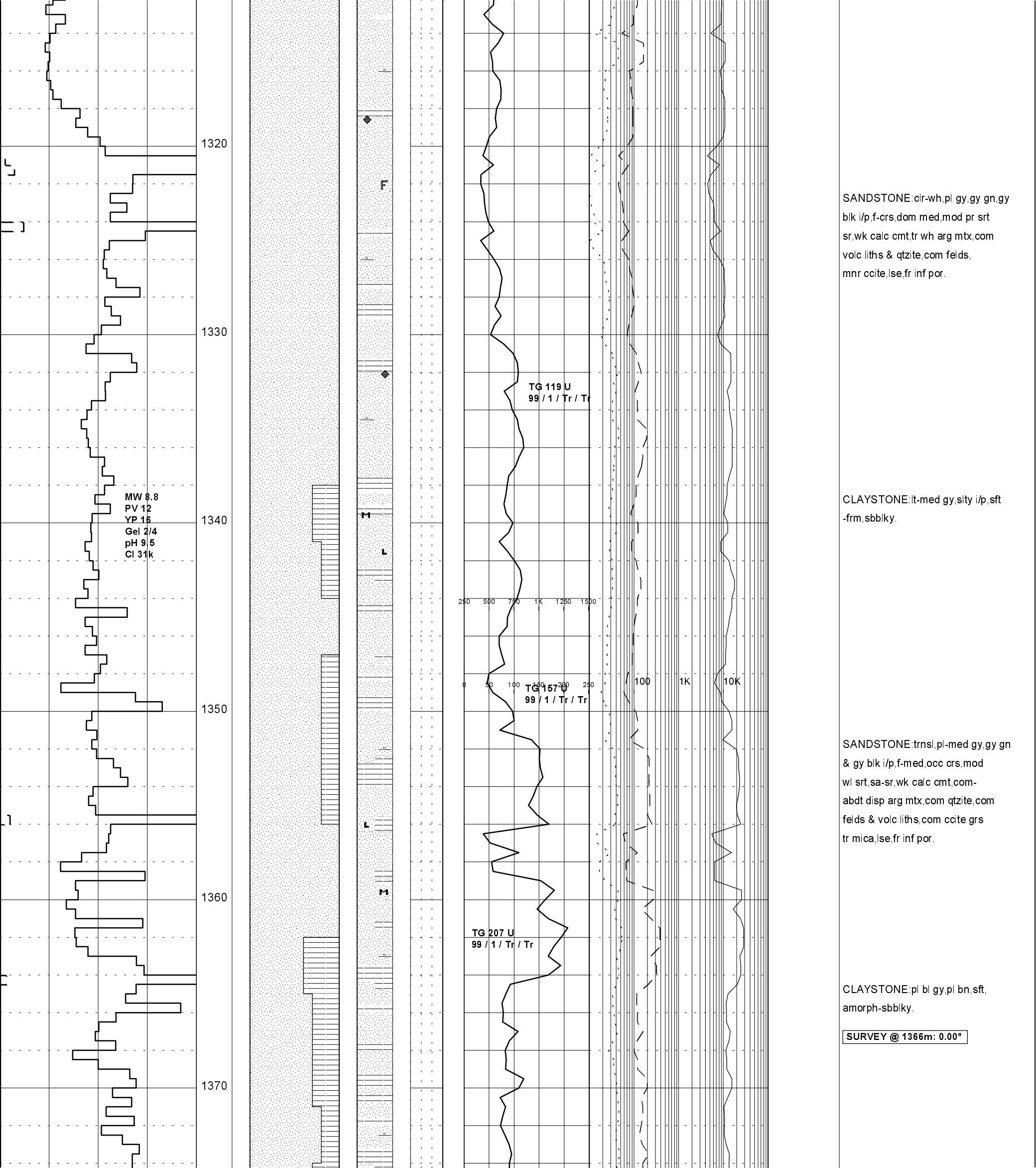
CLAYSTONE: dom pl bn-gy bn, mntr wh  
-pl gn & gy gn, occ slty, tr carb  
mat & pyr nods, sft-frn, sbbiky.

WIRELINE LOGS:  
HLLD/HLLS  
GR-CAL-SONIC-SP

BIT #5: VAREL L127  
SIZE: 8.5" JETS: 2x12  
IN: 1281m OUT: 1452m  
RUN: 171m HRS: 18.1  
COND: 4-4-SS-A-2-1-ER-DST

LOT @ 1290m: 16.9ppg EMW

SANDSTONE: cir-trnsl, lt-med gy-  
gn gy, bl gy & gy blk i/p, f-med,  
occ crs, mod pr srt, sr, wk calc  
cmt, tr disp arg mt, com felds &  
volc lith grs, mntr ccite, tr mica,  
lse, fr inf por.



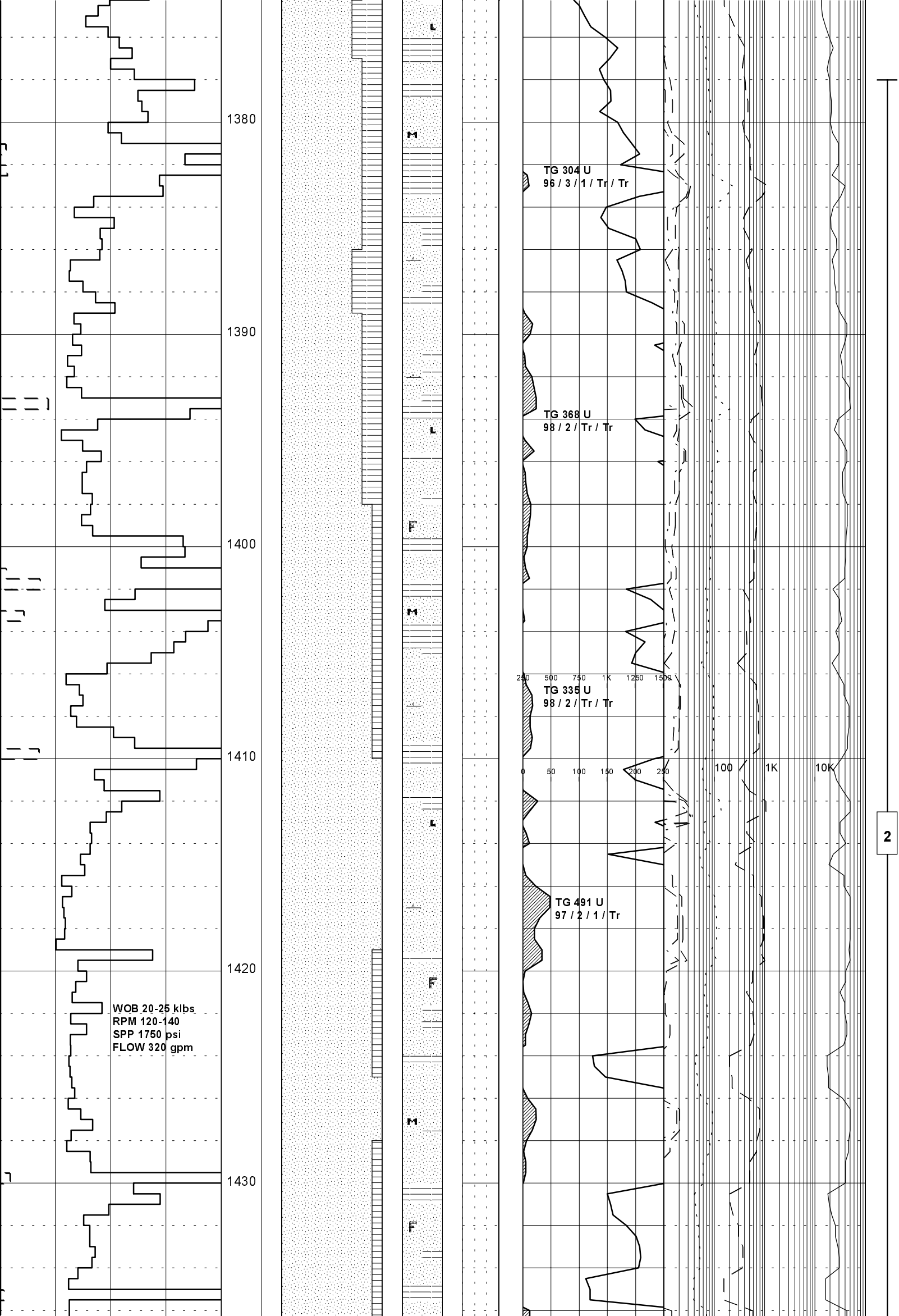
SANDSTONE:cl-w,pl gy,gn,gy  
blk i/p,f-crs,dom med,mod pr srt  
sr,wk calc cmt,tr wh arg mtx,com  
volc liths & qtzite,com felds,  
mnr ccite,lse,fr inf por.

CLAYSTONE:lt-med gy,slty i/p,sft  
-frm,sbbiky.

SANDSTONE:trns,pl-med gy,gn  
& gy blk i/p,f-med,occ crs,mod  
wl srt,sa-sr,wk calc cmt,com-  
abdt disp arg mtx,com qtzite,com  
felds & volc liths,com ccite grs  
tr mica,lse,fr inf por.

CLAYSTONE:pl bl gy,pl bn,sft,  
amorph-sbbiky.

SURVEY @ 1366m: 0.00°



SANDSTONE:wh-lt gy,gy gn-gn,bl  
gy & gy blk i/p,f-med,tr crs,mod  
pr srt,sa-sr,wk calc cmt,tr disp  
arg mtx,com qtzite,com felds &  
lith grs,mnr ccite,dom lse,mnr  
fri aggs,fr inf & vis por.

DST #2: 1378m-1452m  
Conventional Bottom Hole  
NGTS. NFTS.  
Sample Chamber:  
Gas Cut Mud @ 14 psi.

CLAYSTONE:wh-pl gy,pl bn i/p,tr  
carb mat,sft & disp,amorph.

SANDSTONE:wh,lt-med gy-gy gn,bl  
gy & gy blk i/p,f-med,mnr crs,  
mod pr srt,sa,wk calc cmt,com-  
abdt arg mtx,com ccite,com felds  
& volc liths,tr mica,dom lse,mnr  
fri aggs,fr inf por.

SANDSTONE:gen a/a.

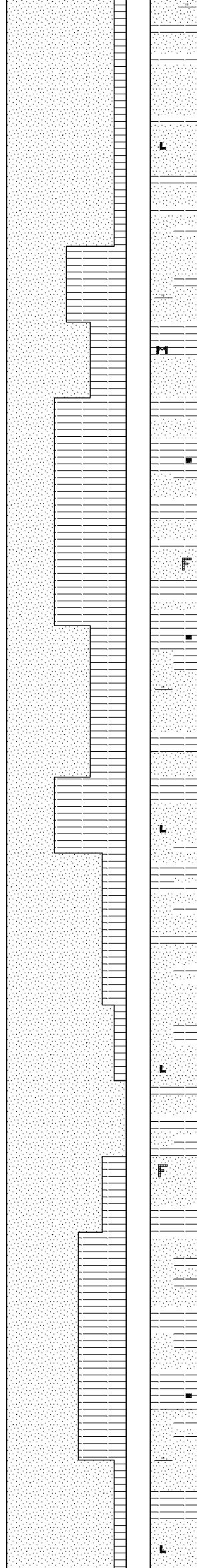
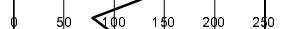
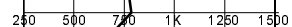
MW 9.2  
PV 11  
YP 10  
Gel 1/2  
pH 8.8  
CI 19.5k

WOB 27 klbs  
RPM 120  
SPP 1750 psi  
FLOW 320 gpm

1440  
1450  
1460  
1470  
1480  
1490

WOB 27 klbs  
RPM 120  
SPP 1750 psi  
FLOW 320 gpm

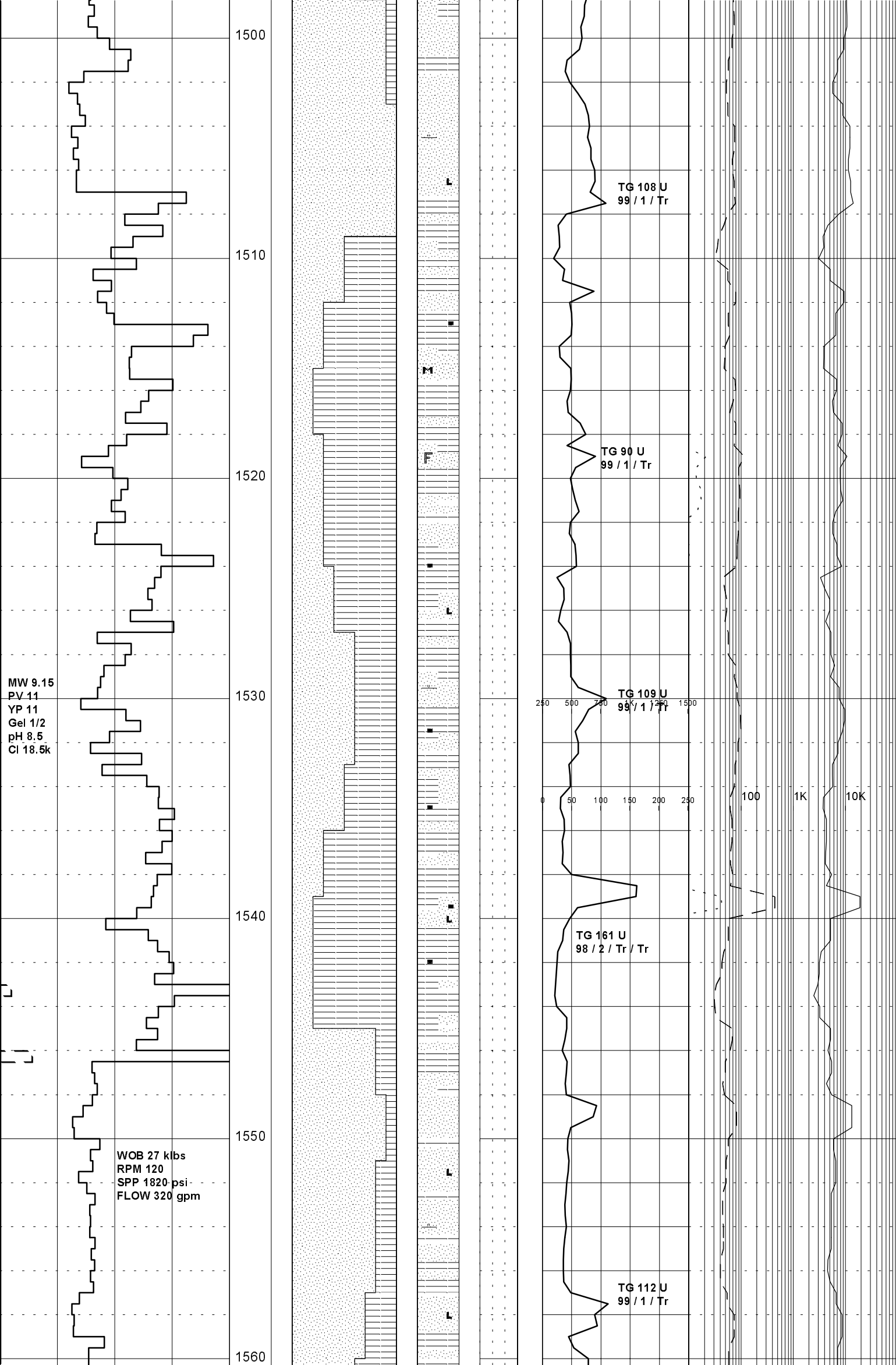
1490

TG 192 U  
98 / 2 / Tr

BIT #6 VAREL L114  
SIZE: 8.5" JETS: 2x12  
IN: 1452m OUT: 1566m  
RUN: 114m HRS: 10.0  
COND: 3-4-BT-1-2-IN-SS-CP

CLAYSTONE:lt-med gy,gy bn,slty  
w/ carb spks i/p,sft-frn,amorph-  
sbblky.

SANDSTONE:wh-pl gy,bl gy-gn gy,  
gy blk i/p,f-med,occ crs,mod wl  
srt,sr,wk calc cmt,com disp arg  
mtx,com felds & gn gy-gy blk w/  
mnr rd-rd bn volc liths,mnr  
ccite lse-frj,fr inf & vis por.



CARBIDE CHECK @ 1519m  
THEOR. STKS.: 5023  
ACTUAL STKS.: 5520  
OPEN HOLE O.G.: 66 %

CLAYSTONE:wh-pl bn,pl gy,sity w/  
carb spks i/p,sft,amorph-sbbiky

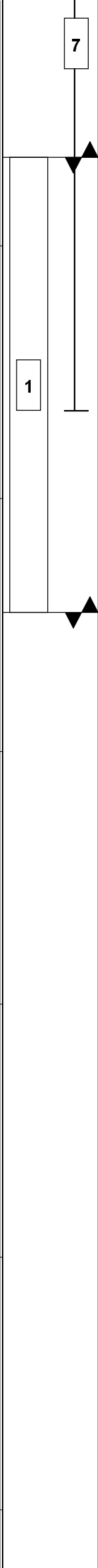
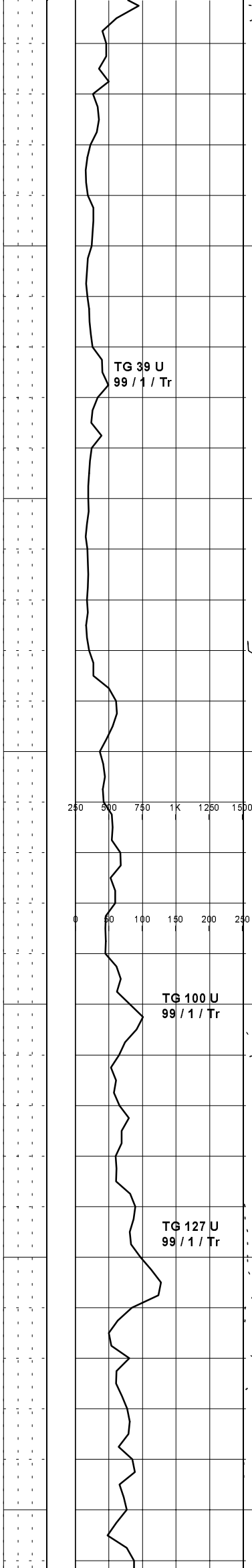
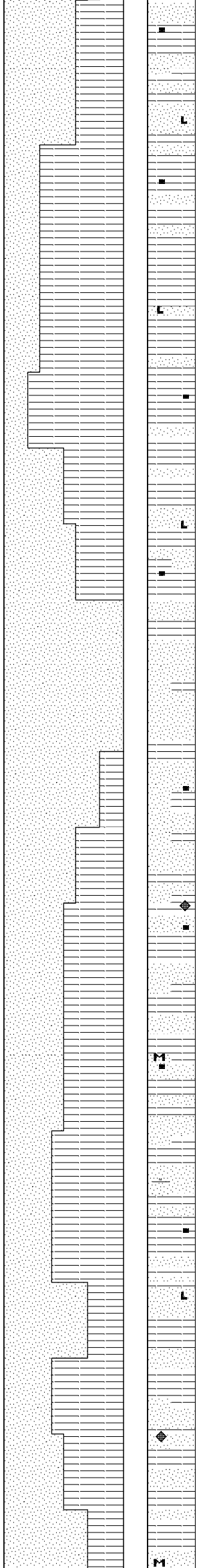
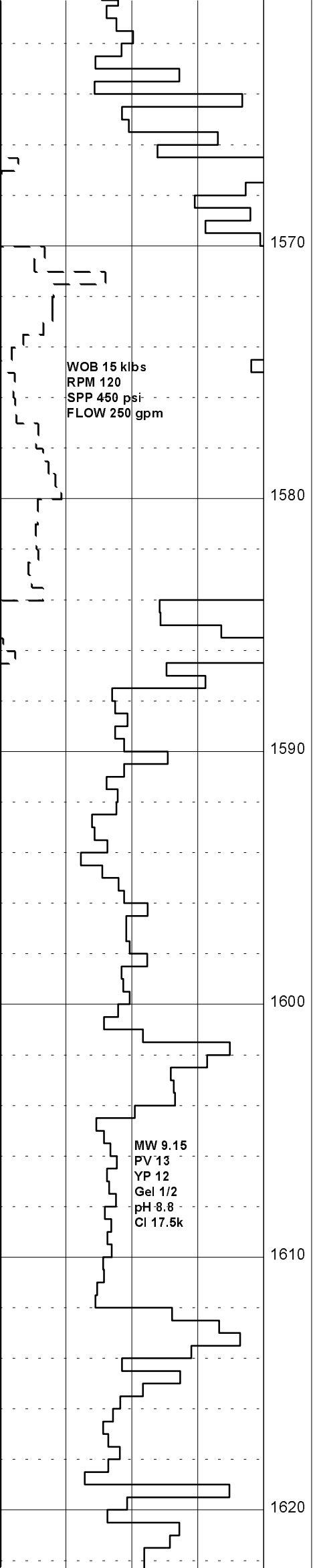
SANDSTONE:wh-pl bl gy,med gy-gy  
blk i/p,f-med,occ crs,mod wl srt  
sa-sr,wk calc cmt,com disp arg  
mtx,com volc liths,tr mica fiks,  
dom lse,fri i/p,fr inf & vis por

CLAYSTONE:pl bn,lt-med gy,med-dk  
bn i/p,tr gy gn,sity & carb i/p,  
tr plant frags,sft-frm,amorph-  
sbbiky.

CLAYSTONE:wh-pl bn,mnr dk bn,  
carb & sity i/p,sft & disp,  
amorph-sbbiky i/p.

DST #7: 1546.5m-1576.5m  
Weak air blow. NGTS.

BIT #7: VAREL ETD417EPS  
SIZE: 8.5" JETS: 2x12  
IN: 1566.5m OUT: 1940m  
RUN: 374m HRS: 30.7  
COND: 2-2-BT-M-E-IN-ER-DST



CORE BIT #1:  
SIZE: 8.5"  
IN: 1566.5m OUT: 1584.5m  
RUN: 18m HRS: 4.6  
REC: 100 %

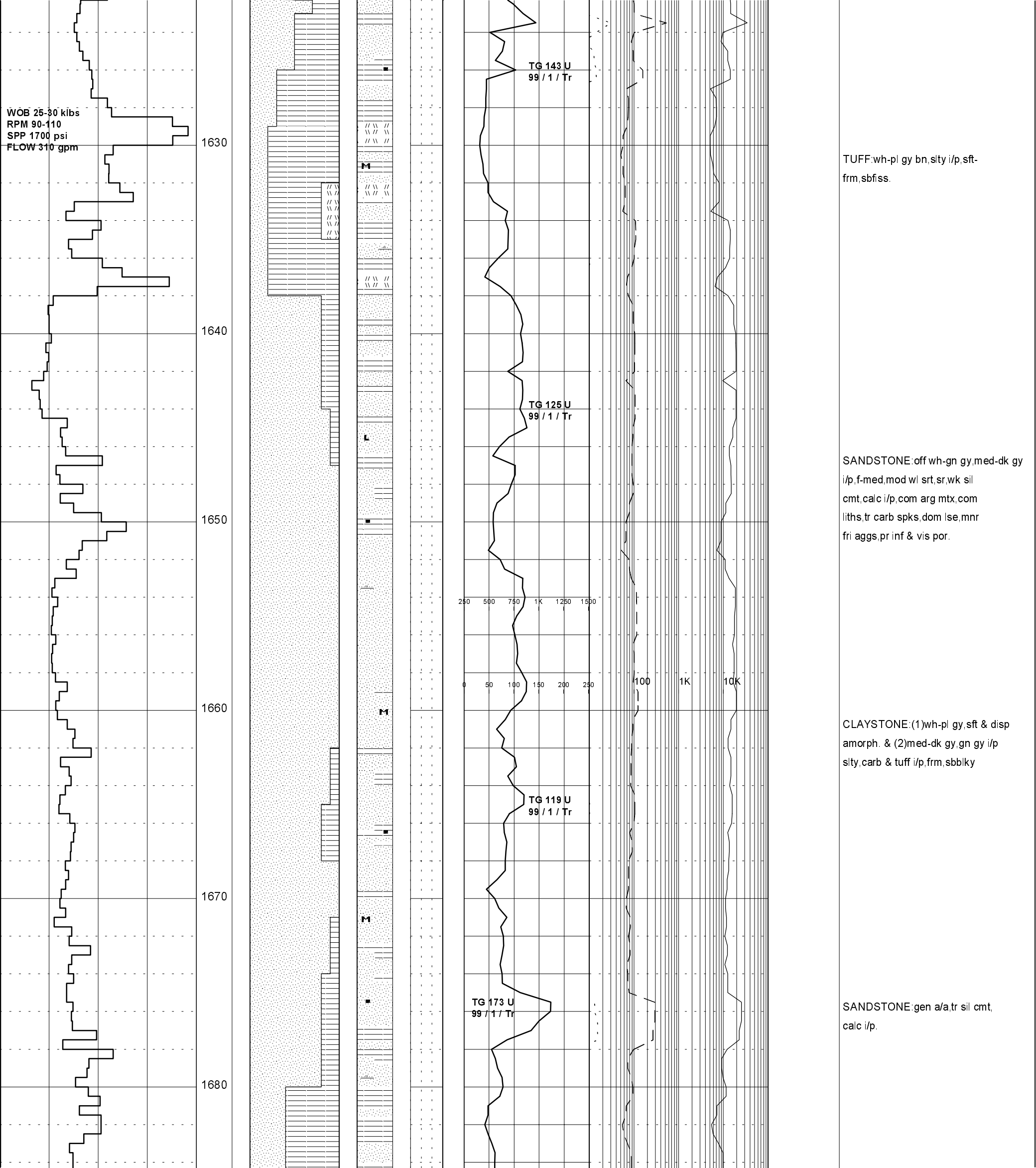
SANDSTONE: cir-trnsl, lt-med gy, dk  
gy i/p, f-med, wl srt, sa-sr, wk  
calc cmt, com arg mtx, com volc  
liths, lse, fr inf por.

CLAYSTONE: dom lt gy-lt gy bn, mn  
dk bn, slty & carb i/p, sft-frn,  
amorph-sbbkly.

SANDSTONE: off wh-wh, gn-gy gn, f-  
med, wl srt, sa-sr, wk calc cmt, com  
disp arg mtx, com volc liths &  
ccite, tr mica flks & pyr nods,  
lse, mn fr, pr-fr inf & vis por

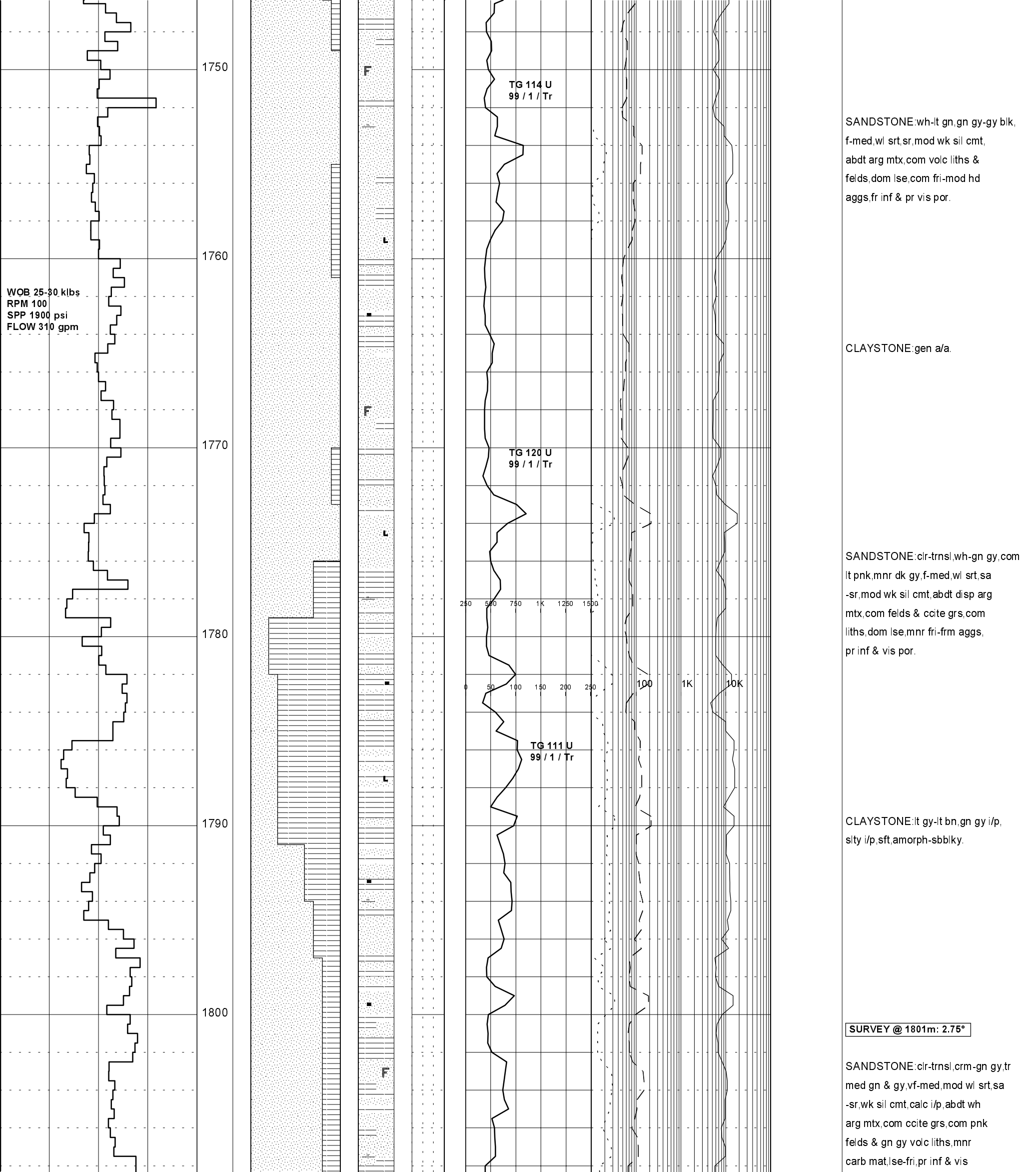
SURVEY @ 1602m: 1.00°

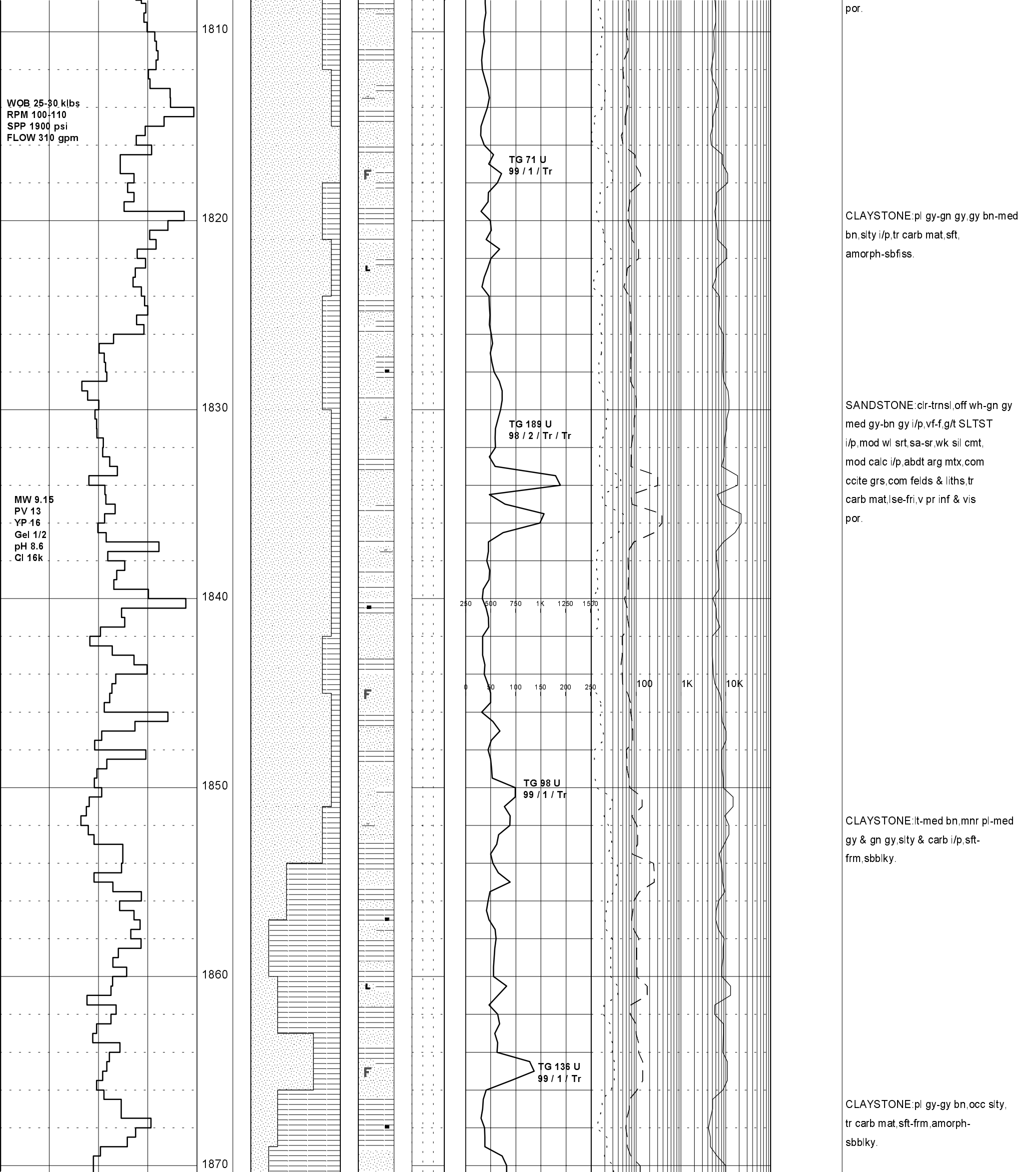
CLAYSTONE: pl bn-pl bn gy, mn gn  
gy, slty & sdy i/p, tr carb flks &  
miclams, sft & disp, frn i/p,  
amorph-sbbkly, mn sbfiss.

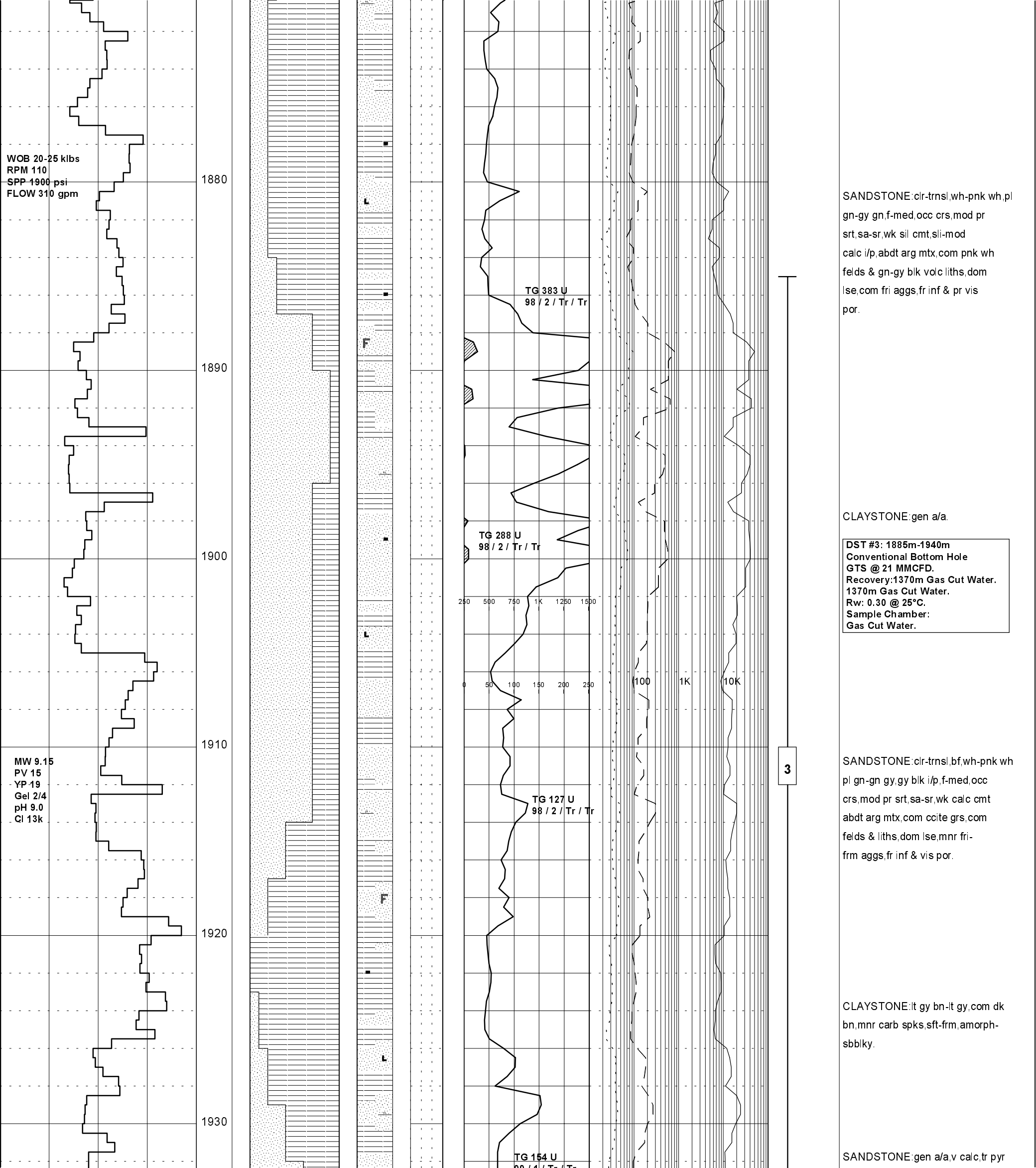












WOB 20-25 klbs  
RPM 110  
SPP 1900 psi  
FLOW 310 gpm

MW 9.15  
PV 15  
YP 19  
Gel 2/4  
pH 9.0  
Cl 13k

1880

1890

1900

1910

1920

1930

TG 383 U  
98 / 2 / Tr / Tr

TG 288 U  
98 / 2 / Tr / Tr

TG 127 U  
98 / 2 / Tr / Tr

TG 154 U  
98 / 2 / Tr / Tr

250 500 750 1K 1250 1500

0 50 100 150 200 250

100 1K 10K

3

SANDSTONE: cir-trnsl, wh-pnk wh, pl  
gn-gy gn, f-med, occ crs, mod pr  
srt, sa-sr, wk sil cmt, sli-mod  
calc i/p, abdt arg mtx, com pnk wh  
felds & gn-gy blk volc liths, dom  
lse, com fri aggs, fr inf & pr vis  
por.

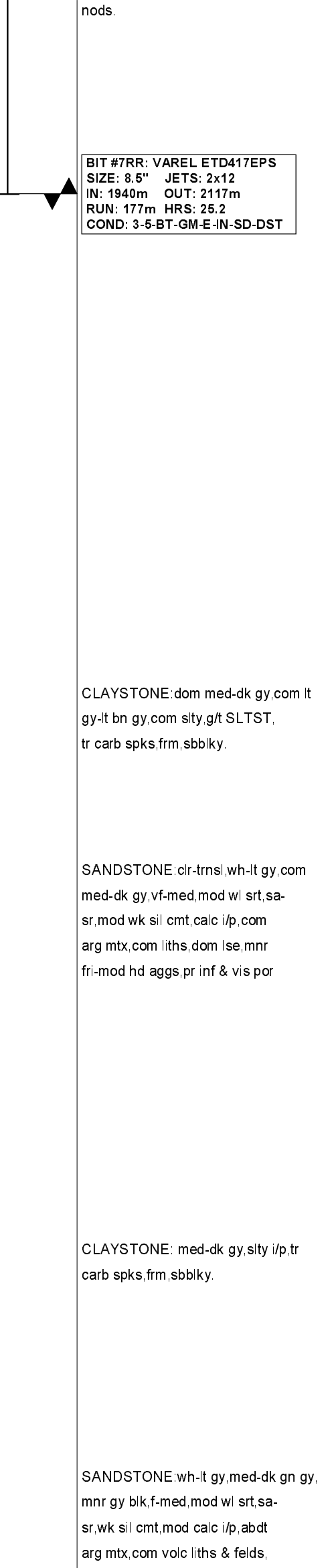
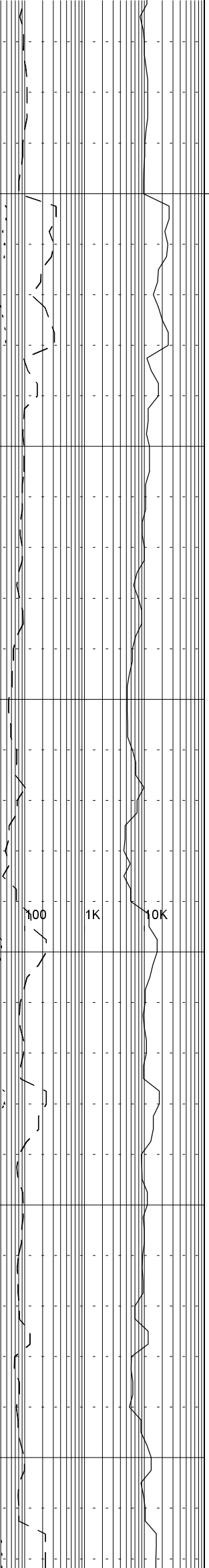
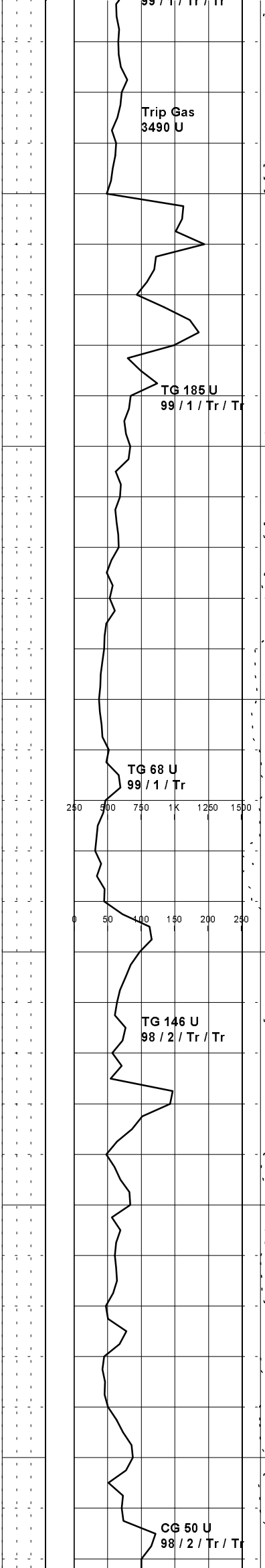
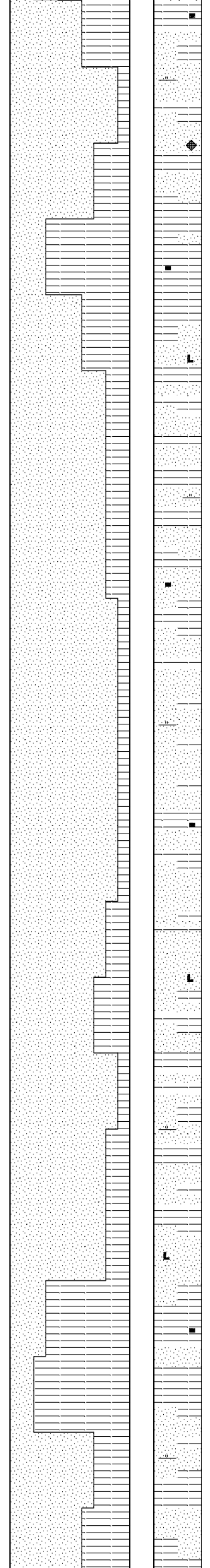
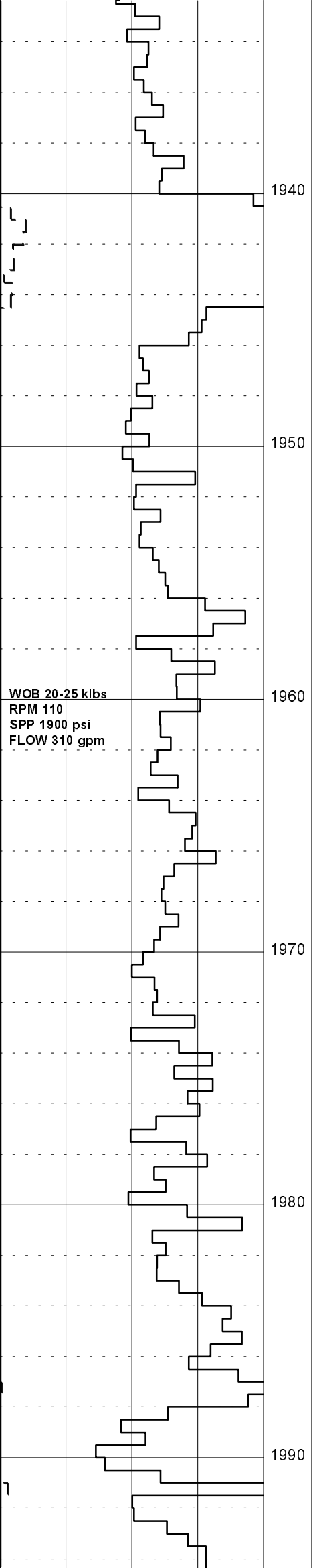
CLAYSTONE: gen a/a.

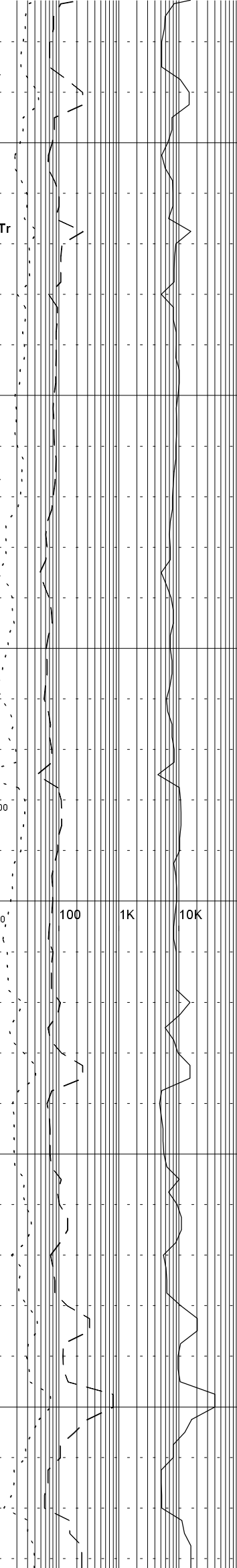
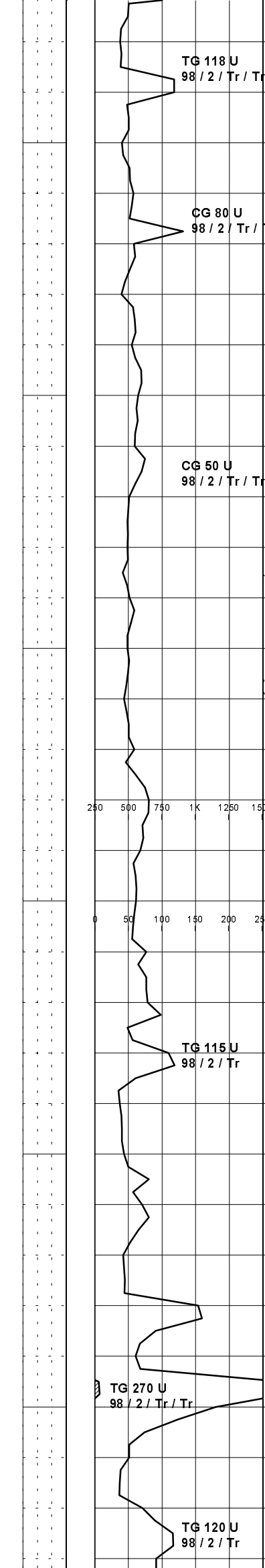
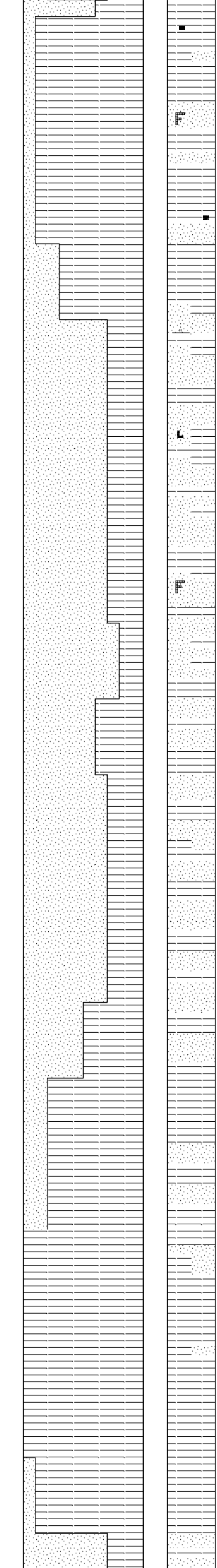
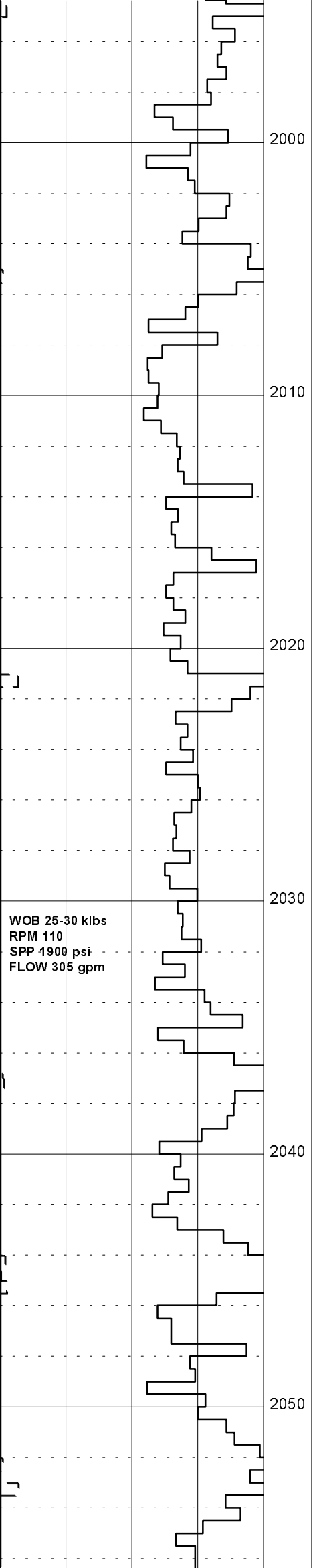
DST #3: 1885m-1940m  
Conventional Bottom Hole  
GTS @ 21 MMCFD.  
Recovery: 1370m Gas Cut Water.  
1370m Gas Cut Water.  
Rw: 0.30 @ 25°C.  
Sample Chamber:  
Gas Cut Water.

SANDSTONE: lt gy bn-lt gy, com dk  
pl gn-gn gy, gy blk i/p, f-med, occ  
crs, mod pr srt, sa-sr, wk calc cmt  
abdt arg mtx, com ccite grs, com  
felds & liths, dom lse, mnfr fri-  
frm aggs, fr inf & vis por.

CLAYSTONE: lt gy bn-lt gy, com dk  
bn, mnfr carb spks, sft-frm, amorph-  
sbbiky.

SANDSTONE: gen a/a, v calc, tr pyr





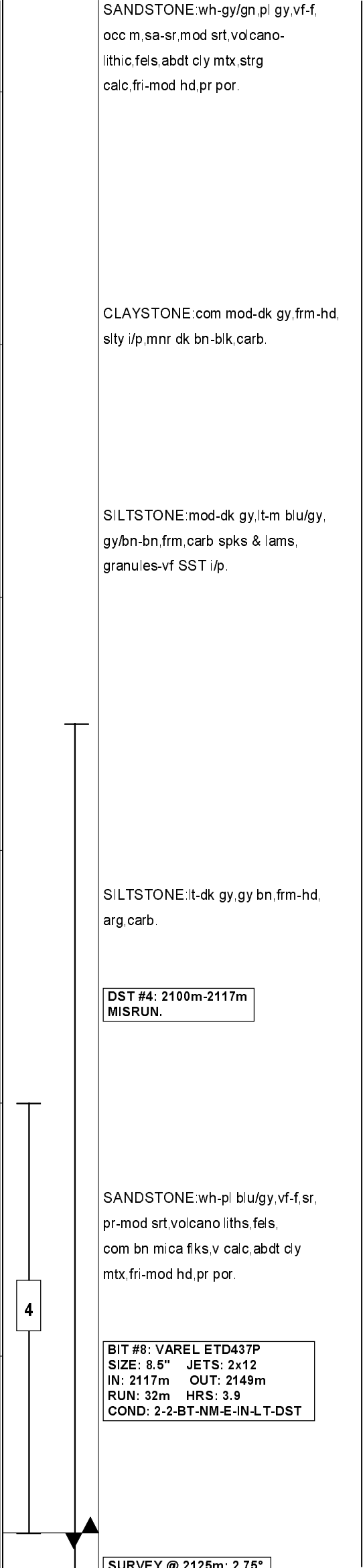
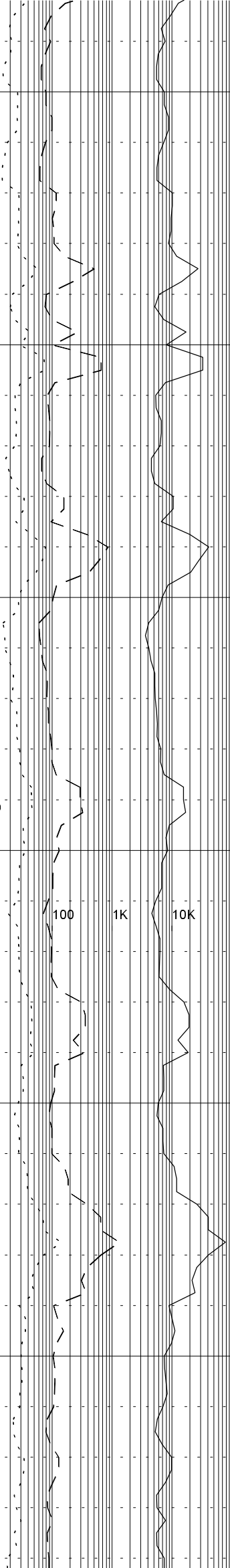
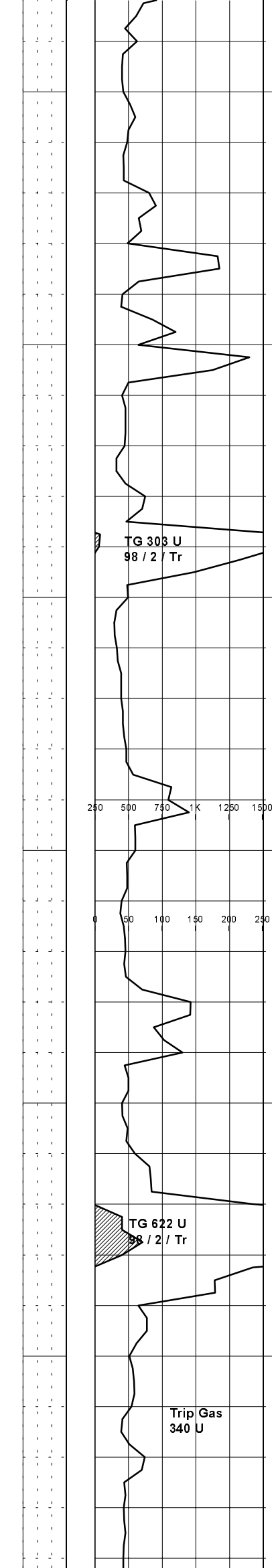
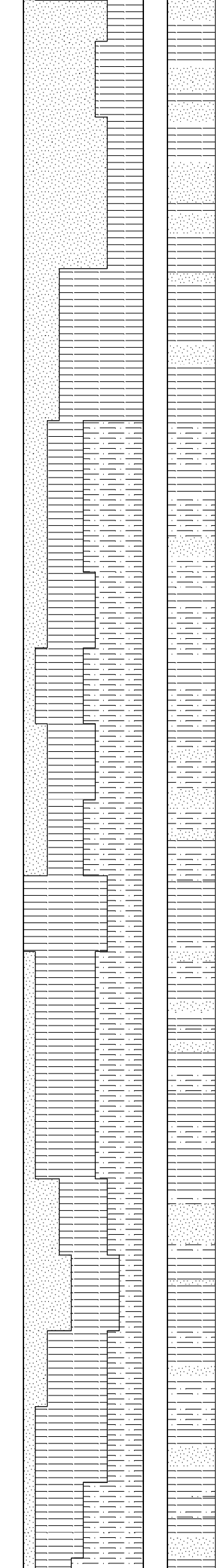
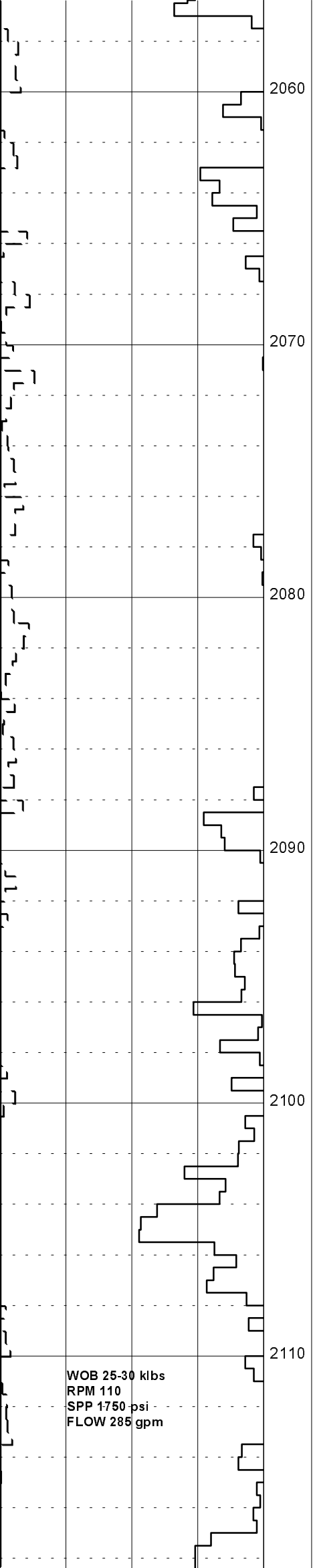
tr carb mat,dom lse,mnr fri aggs  
fr inf & pr vis por.

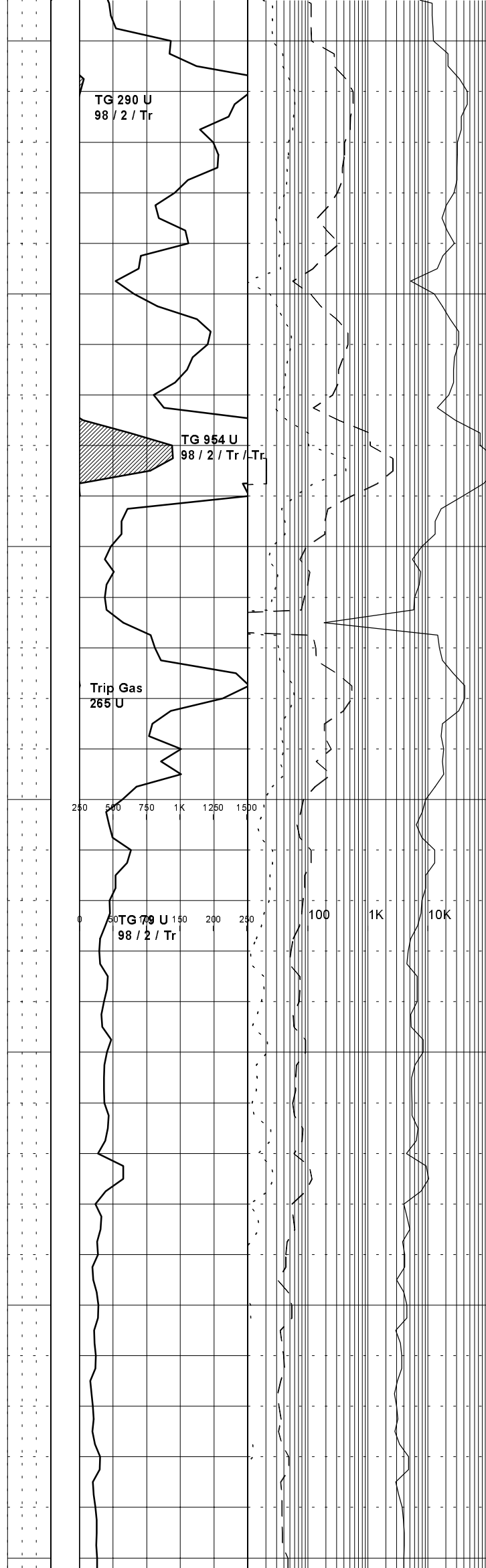
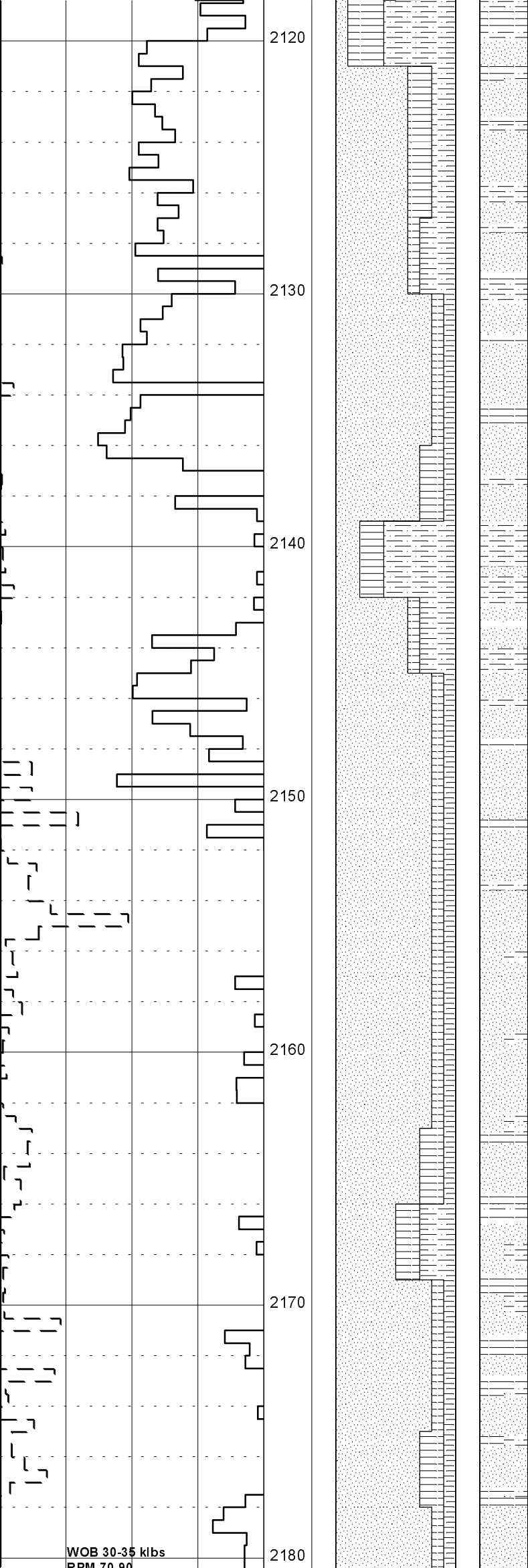
CLAYSTONE:lt-med gy,gy bn-med bn  
tr sity,sft-occ frm,amorph-  
sbbiky.

**SURVEY @ 2009m: 2.75°**

SANDSTONE:cir-trnsl,off wh-lt gy  
med-dk gy,mnr gy blk,vf-med,mod  
pr srt,sa-sr,wk sil cmt,mod-v  
calc i/p,com arg mtx,com liths &  
felds,dom lse,mnr fri-frm aggs,  
pr inf & vis por.

CLAYSTONE:med-dk gy,gy bn,mnr dk  
bn-bn blk,v carb g/t lig/Coal  
i/p,g/t SLTST i/p,sft-frm,sbbiky  
-blky.





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SANDSTONE:wh-gy,vf-f,occ m,sa-sr  
mod srt,volcano liths,fels,com  
carb frags,tr mica flks,abdt cly  
mtx,sli calc,fri,pr por.

DST #5: 2085m-2149m  
MISRUN.

SILTSTONE:mod-dk gy,frm-hd,liths  
aren i/p,carb spks.

DST #6: 2124m-2154m  
Weak air blow, NGTS.

SANDSTONE:wh-pl gy,pl gy-gn,sa-  
sr,mod srt,liths,fels,mnr carb  
mat,abdt cly mtx,sli calc,pr por

BIT #8RR: VAREL ETD437P  
SIZE: 8.5" JETS: 2x12  
IN: 2149m OUT: 2350m  
RUN: 201m HRS: 47.9  
COND: 4-3-BT-NM-E-IN-LT-TD

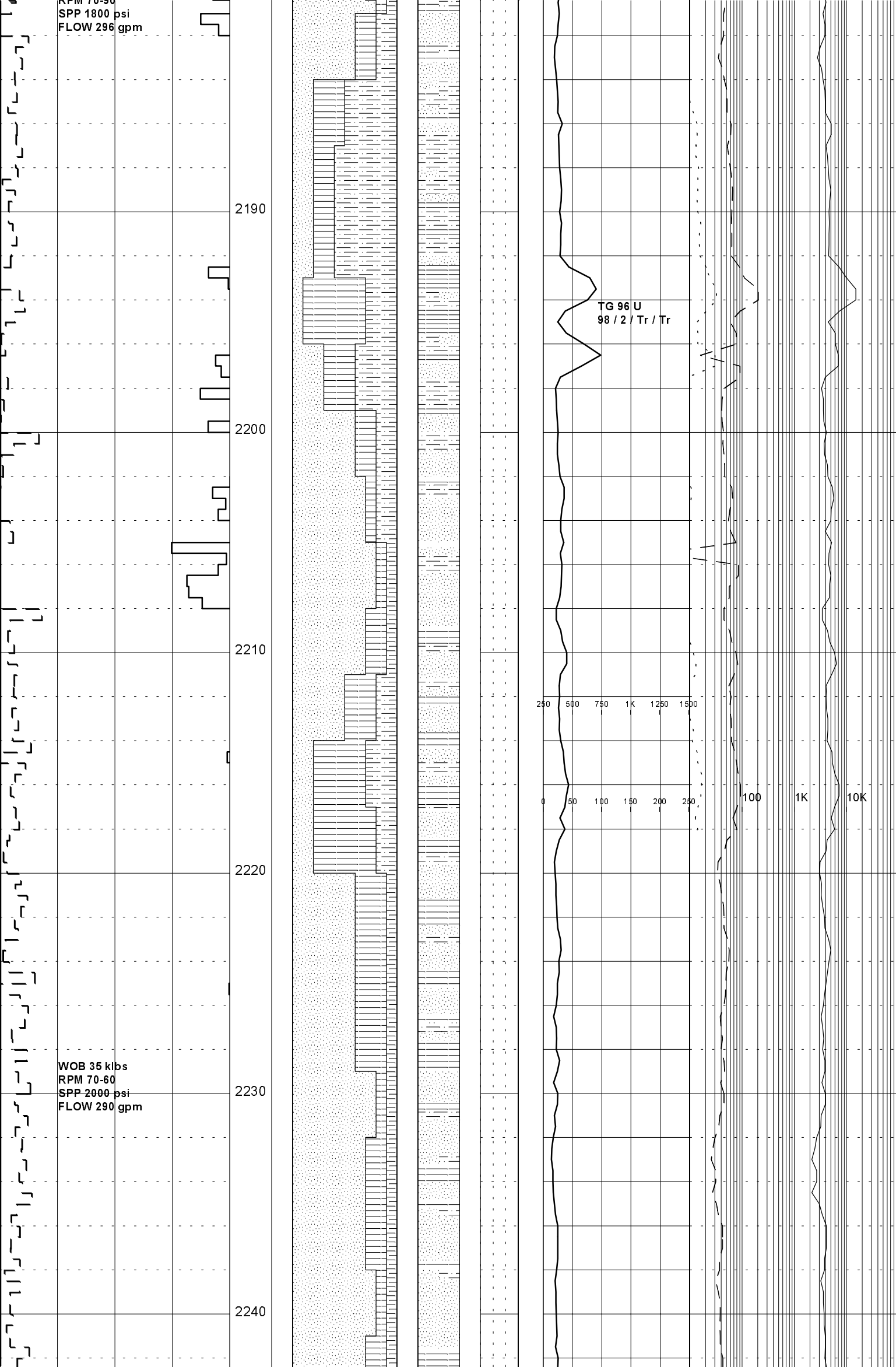
6

SILTSTONE:med-dk gy,arg g/t  
CLYST,frm-hd,blky.

SANDSTONE:wh-gy,gy gn,vf-med,mod  
-prly srt,sa-sr,mod-strg calc  
cmt,abdt gy arg mtx,abdt gy gn-  
gy blk lith grns,tr felds,tr mic  
mic,fri-mod hd,pr vis por.



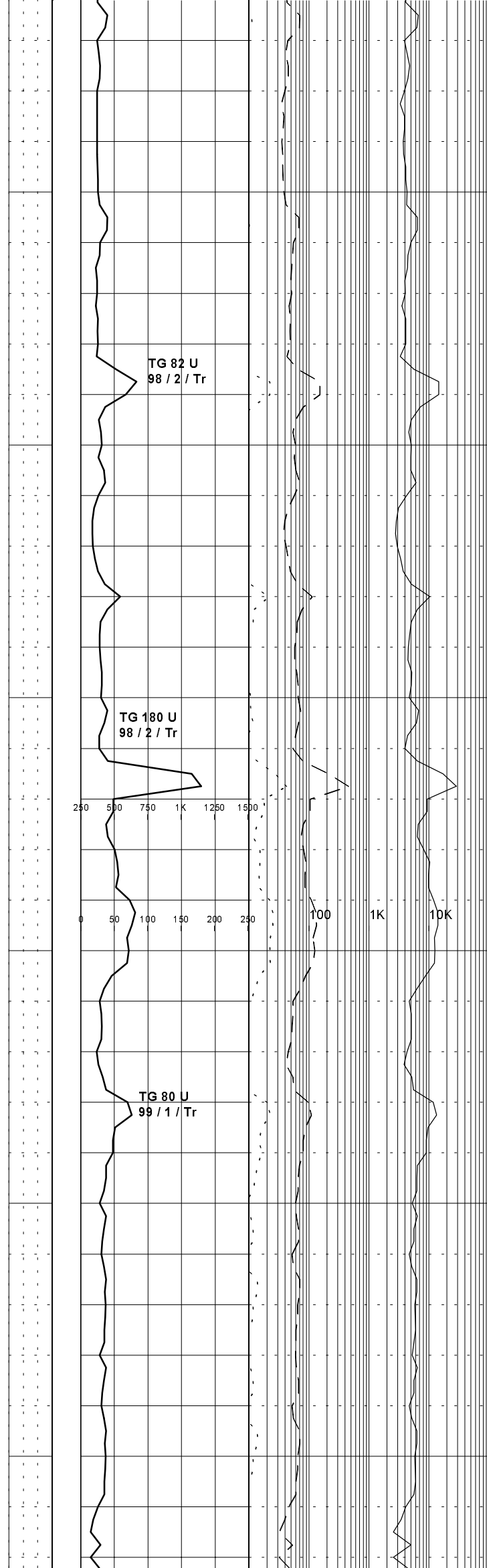
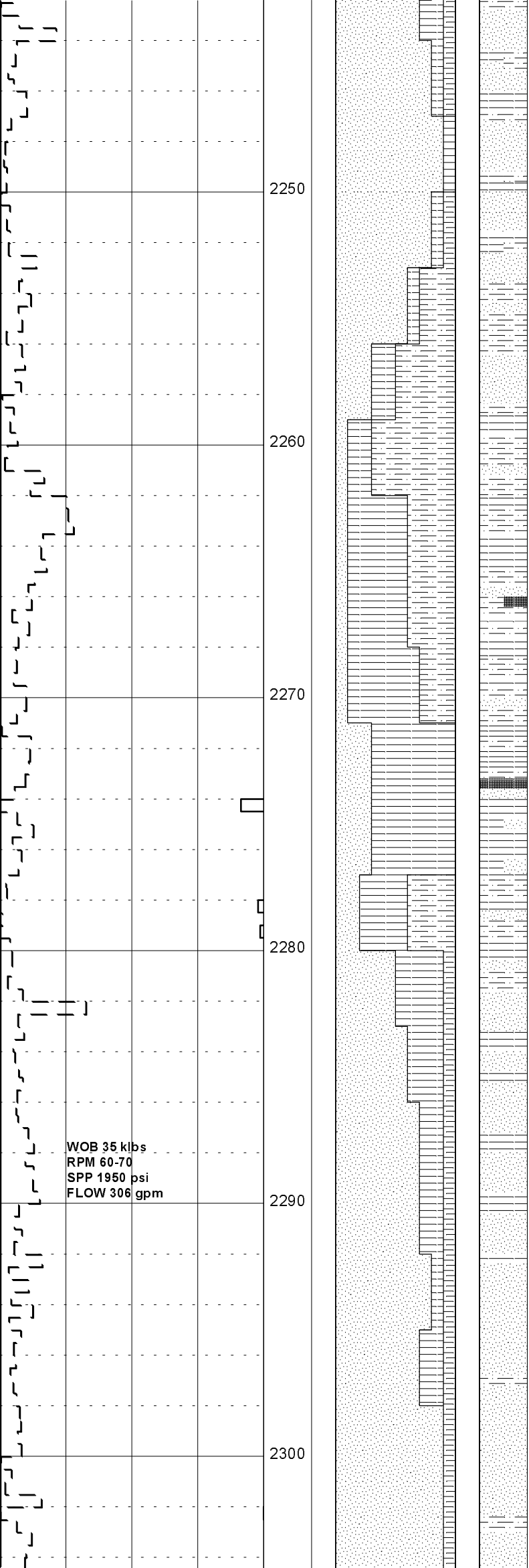
WOB 35 klbs  
RPM 70-60  
SPP 2000 psi  
FLOW 290 gpm



**CARBIDE CHECK @ 2196m**  
**THEOR. STKS.: 6927**  
**ACTUAL STKS.: 7910**  
**OPEN HOLE O.G.: 33 %**

CLAYSTONE:mod-dk gy,gy-gn,dk bn,  
frm,silty & carb i/p.

SANDSTONE: gy-gy/gn, vf-m, occ crs,  
mod-str cal c, carb mat, fri-mod hd  
pr por.

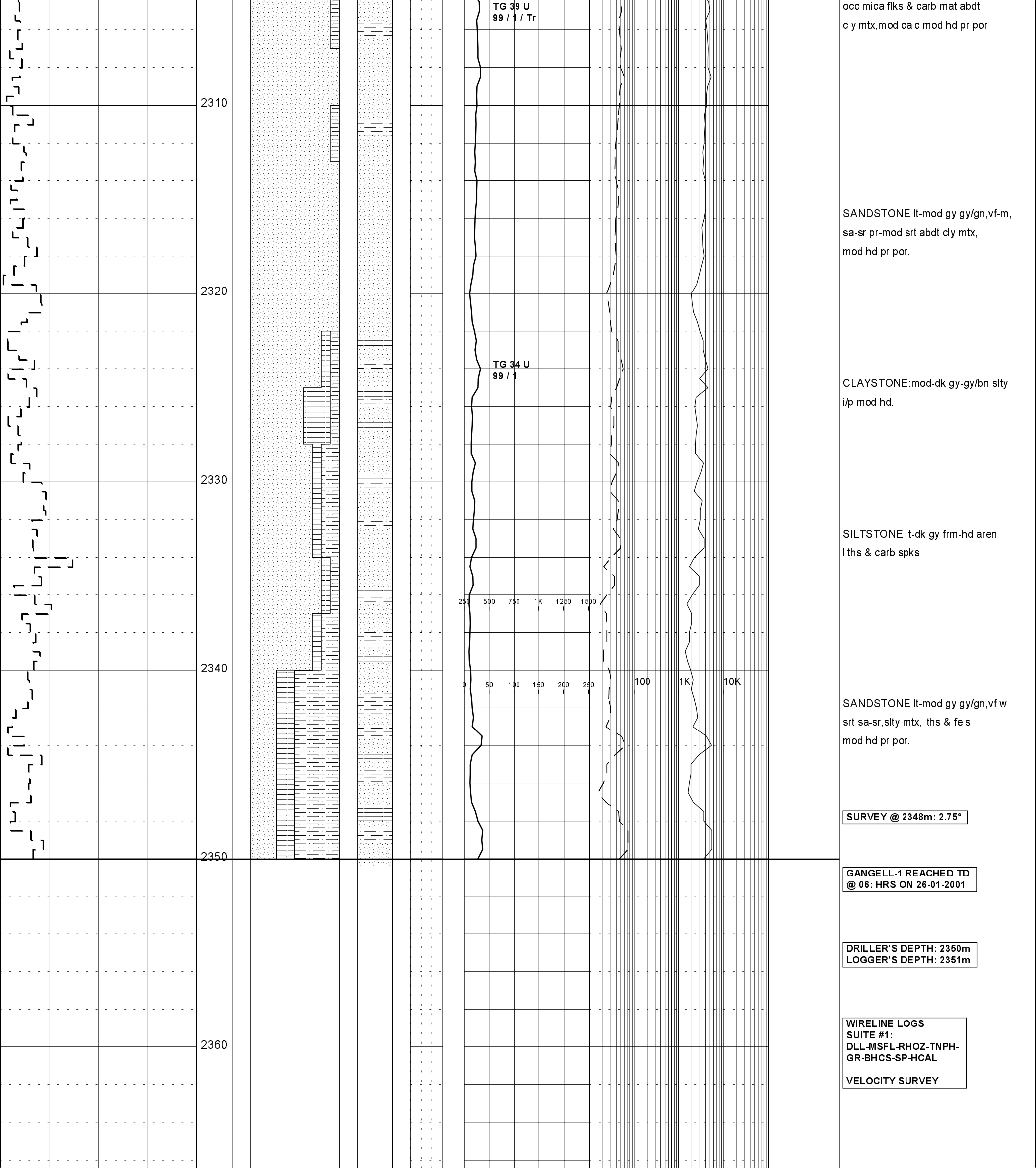


SANDSTONE:lt gy-gy gn,vf-f,mws,  
sa-sr,mod-strg calc cmt,v strg  
i/p,abnt arg mtx,tr carb mat,tr  
liths,micmic i/p,fri-mod hd aggs  
pr vis por.

SILTSTONE:gy-gy gn,aren,arg i/p  
gt CLYST,tr carb mat,frm-hd,  
sbfiss-blky.

SANDSTONE:wh-lt gy,gy-gn,vf-f,mod srt,  
sa-sr,sli calc cmt,mod-abdt lt  
gy arg mtx,tr lith & felds,tr  
carb mat,fri-mod hd,pr vis por.

SANDSTONE:lt-mod gy,gy/gn,vf-f,  
sa-sr,pr-mod srt,liths & fels,w/



[illegible]