

CHILDERS COVE #1 SPUDED
ON 19-09-05 @ 18:00HRS

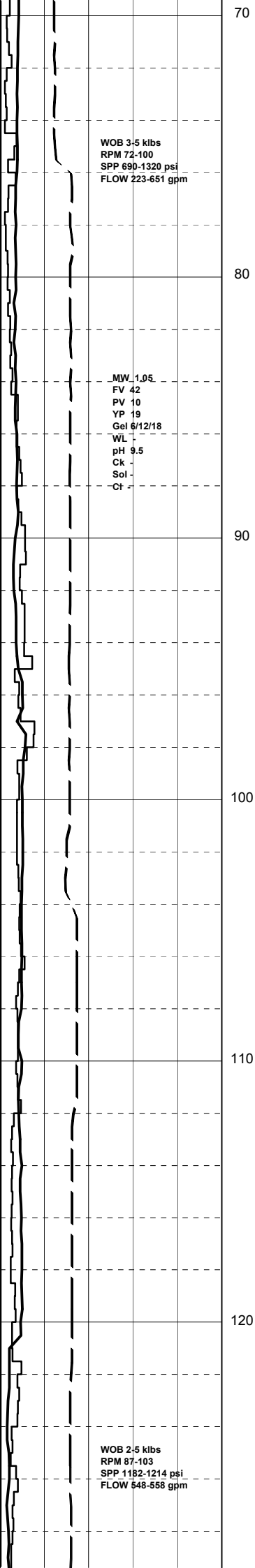
BIT #1 VAREL CH1GMS
SIZE: 12.25" JETS: 3x16
IN: 16m OUT:551m
RUN: 535m HRS:11.3h
COND:

GEOSERVICES LOGGED THE WELL FROM 34M

LIMESTONE:off wh,yelsh gry,pl brn
i/p,spar,abdt shell & coral frags,
xin,uncons,fri-mod hd.

NO GAS

LIMESTONE:off wh,yelsh gry,pl brn
i/p,mnr dk yelsh org,spar,abdt
shell & coral frags,xin,uncons,fri-
mod hd.

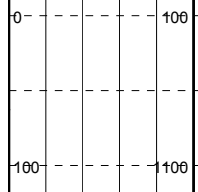


WOB 3-5 klbs
 RPM 72-100
 SPP 690-1320 psi
 FLOW 223-651 gpm

MW 1.05
 FV 42
 PV 10
 YP 19
 Gel 6/12/18
 WL -
 pH 9.5
 CK -
 Sol -
 Ct -

WOB 2-5 klbs
 RPM 87-103
 SPP 1182-1214 psi
 FLOW 548-558 gpm

NO GAS



LIMESTONE:off wh,yelsh gry,pl brn,pl olv,
 i/p,mnr dk yelsh org,spar,abdt
 shell & coral frags,xln,uncons,fri-
 mod hd.

LIMESTONE:off wh,yelsh gry,pl olv,
 mnr med lt gry,spar,micr i/p,shell &
 coral frags,xln,uncons,fri-mod hd.

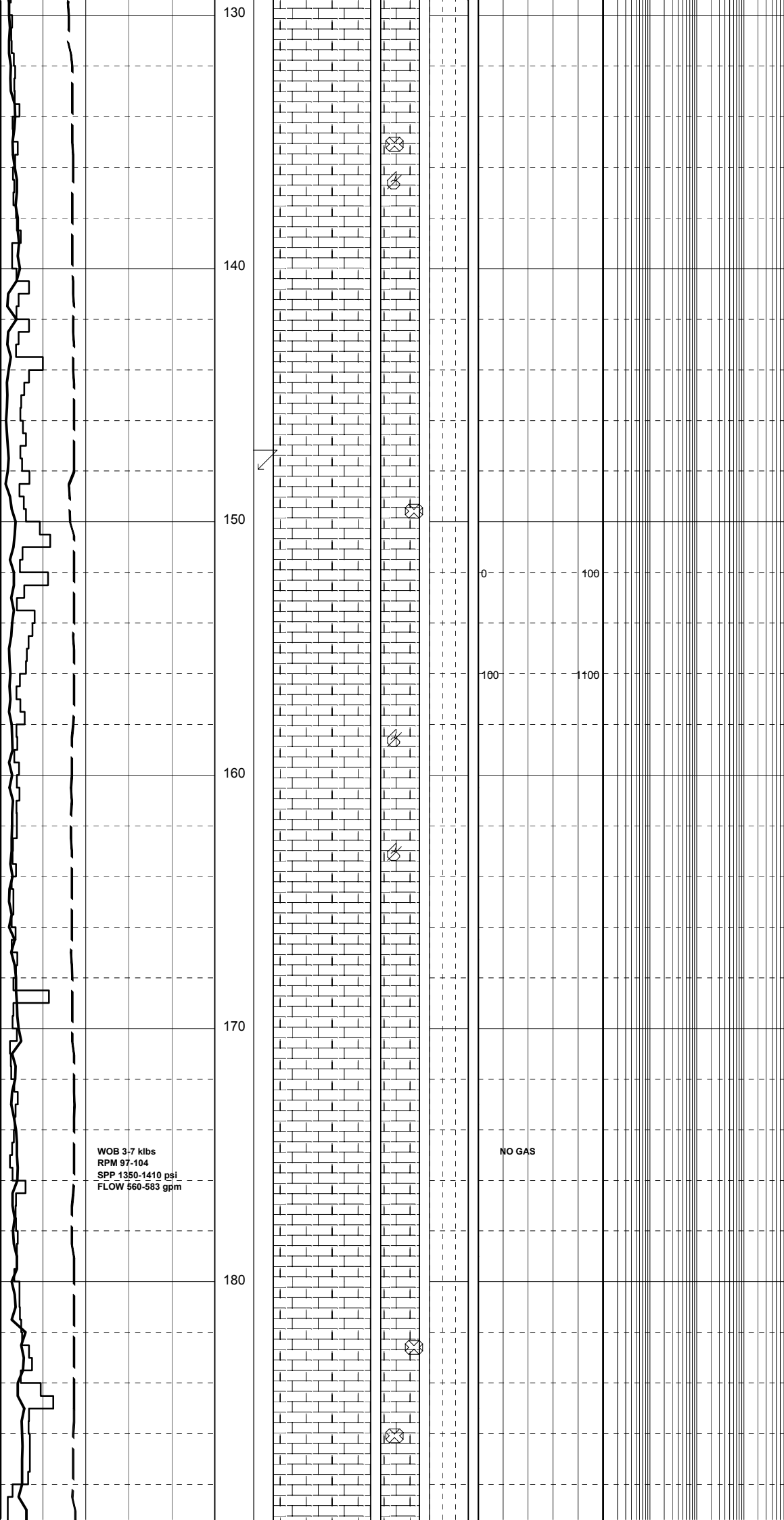
SURVEY @ 90.4m: 0.00°

LIMESTONE:yelsh gry,lt olv gry,mnr
 off wh,spar,micr l/p,com shell &
 coral frags,tr-rr grn liths,xln,uncons
 fri-mod hd.

SURVEY @ 102m: 0.00°

LIMESTONE:lt olv gry,grnsh gry-
 off wh,spar,tr micr,foss,abdt shell
 & coral frags,mnr-com grn liths,xln,
 fri-mod hd,uncons i/p.

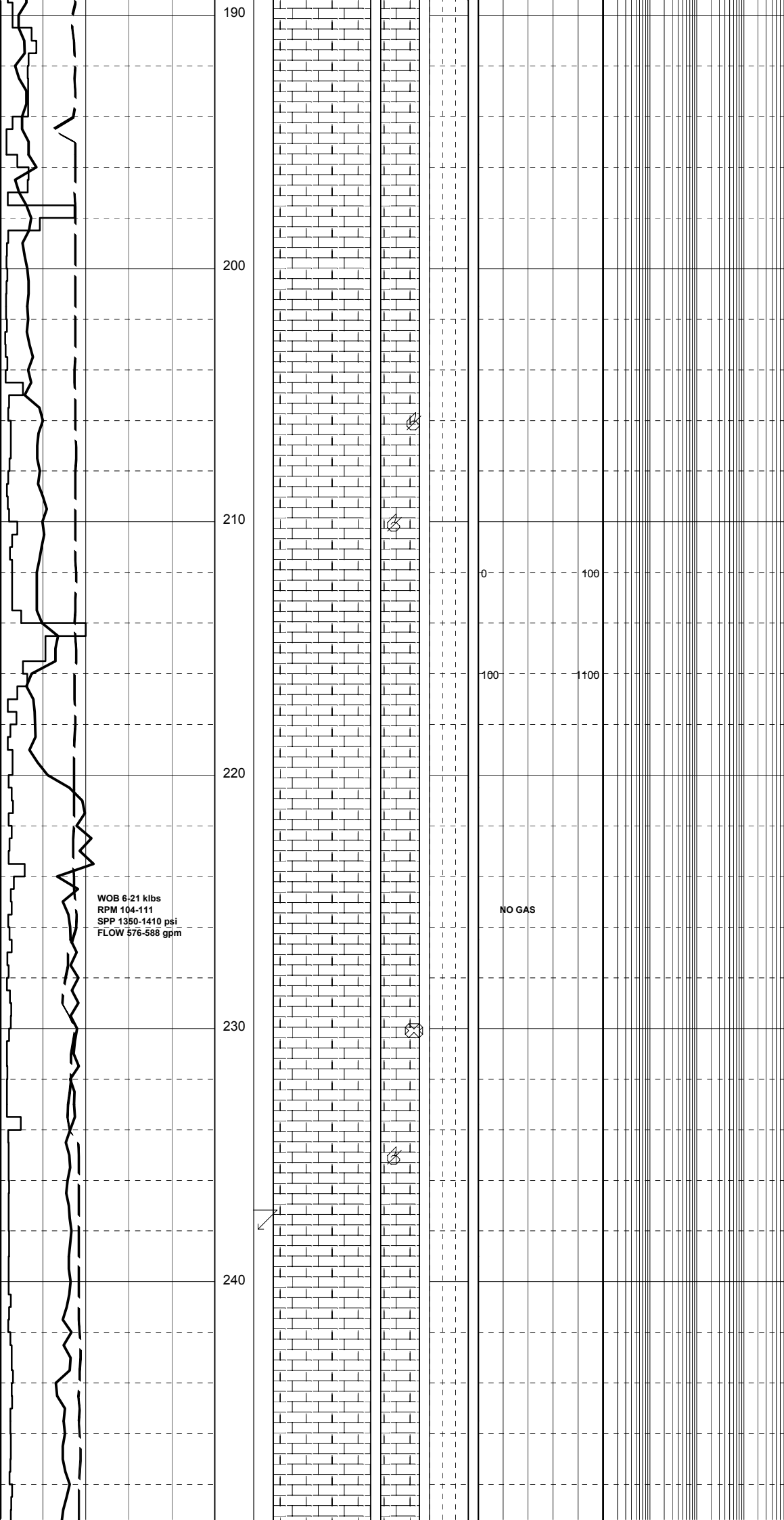
NO GAS



LIMESTONE:wh-off wh,yelsh gry,lt
 olv gry,spar,micr i/p,com shell &
 coral frags,mnr grn liths,tr blk
 lith spks,xln,fri-dom mod hd,
 uncons i/p.

LIMESTONE:off wh,yelsh gry,lt
 olv gry,tr dk grnsh gry,spar,com
 loc micr,tr arg,tr MARL frags,com
 foss frags,tr grn & blk liths,xln,
 dom mod hd-hd,fri i/p.

LIMESTONE:wh-off wh,grnsh-gry,tr
 yelsh gry,spar,com micr,tr arg,tr
 MARL,mnr-com foss mat,grn & blk
 liths,xln,mod hd-hd,fri i/p.



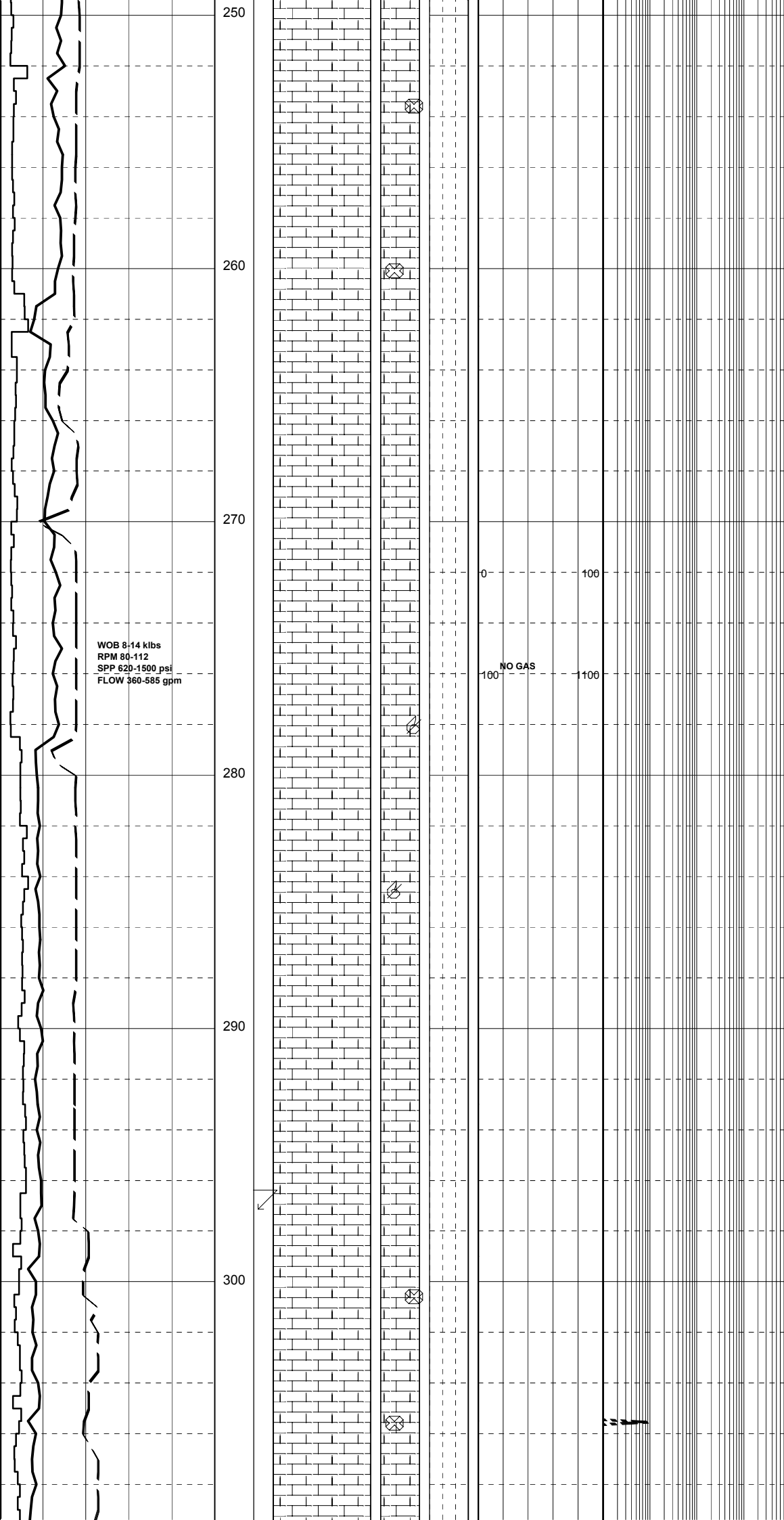
LIMESTONE:off wh,lt olv gry,grnsh
gry,spar,com loc micr,tr MARL,com
foss mat,xln,fr-mod hd.

LIMESTONE:off wh-lt olv gry,grnsh
gry,spar,com loc micr,tr MARL,com
foss mat,tr grn & blk liths,xln,fr-
mod hd.

LIMESTONE:off wh-lt olv gry,grnsh
gry,spar,com loc micr,tr MARL,com
foss mat,tr grn & blk liths,xln,fr-
mod hd.

SURVEY @ 238.0m: 0.00°

LIMESTONE:off wh-lt olv gry,grnsh
gry,spar,com loc micr,tr MARL,com
foss mat,tr grn & blk liths,xln,fr-
mod hd.



LIMESTONE:lt gry,lt olv gry,med grnsh gry,arg,loc com shell & coral frags,mnr dk spks,v sft-sft,blky,dom amorph.

LIMESTONE:lt gry,lt olv gry,med grnsh gry,arg,loc com shell & coral frags,mnr dk spks,v sft-sft,blky,dom amorph.

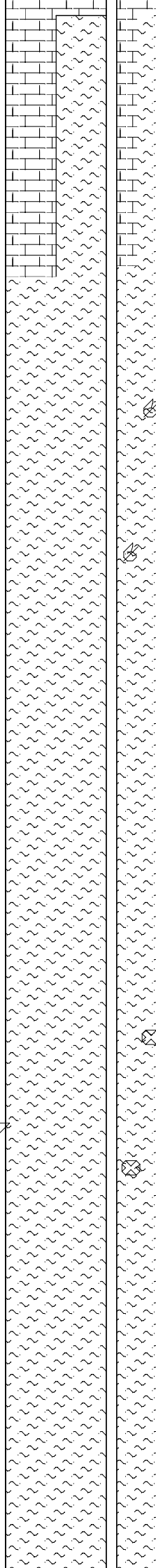
LIMESTONE:lt gry,lt olv gry,med grnsh gry,arg,loc com shell & coral frags,mnr dk spks,v sft-sft,blky,dom amorph.

LIMESTONE:lt gry,lt olv gry,med grnsh gry,arg,loc com shell & coral frags,mnr dk spks,v sft-sft,blky,dom amorph.

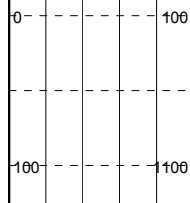
MW 1.05
FV 42
PV 8
YP 18
Gel 10/24/38
WL
pH 8.5
Cr 7
Sol -2
Cl -2.5

WOB 8-14 klbs
RPM 107-130
SPP 1450-1500 psi
FLOW 530-570 gpm

310
320
330
340
350
360



NO GAS

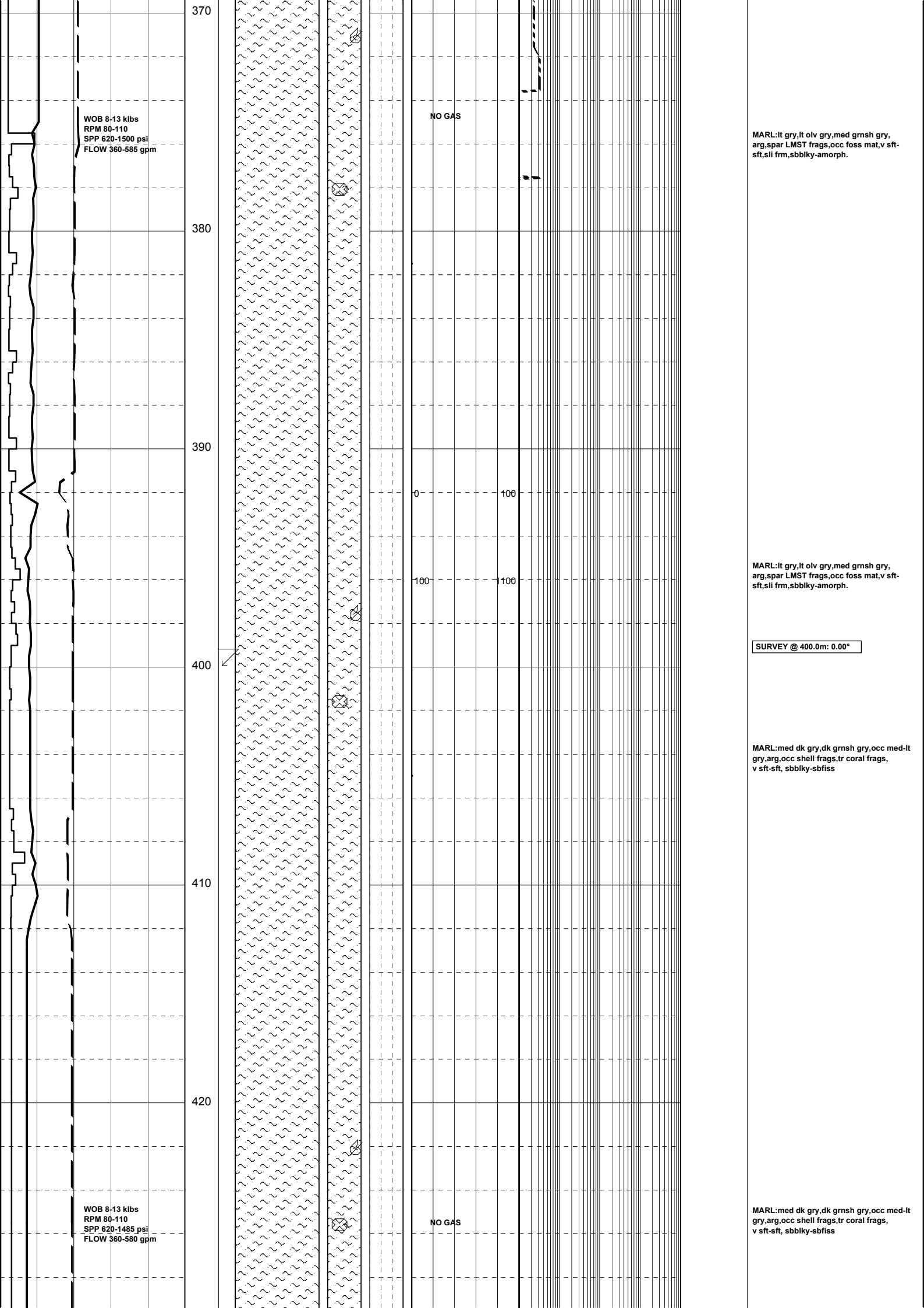


MARL: med gry, grnsh gry, arg, occ spar LMST frags, occ foss mat, v sft-sft, sbbly-amorph.

MARL: med gry, grnsh gry, arg, occ spar LMST frags, occ foss mat, v sft-sft, sbbly-amorph.

MARL: lt gry, lt olv gry, med grnsh gry, arg, spar LMST frags, occ foss mat, v sft-sft, sli frm, sbbly-amorph.

SURVEY @ 353.0m: 0.00°



MW 1.09
FV 65
PV 10
YP 38
Gel 18/37/54
WL 1
pH 8.5
Ck -
Sol -4
Cl -2

430

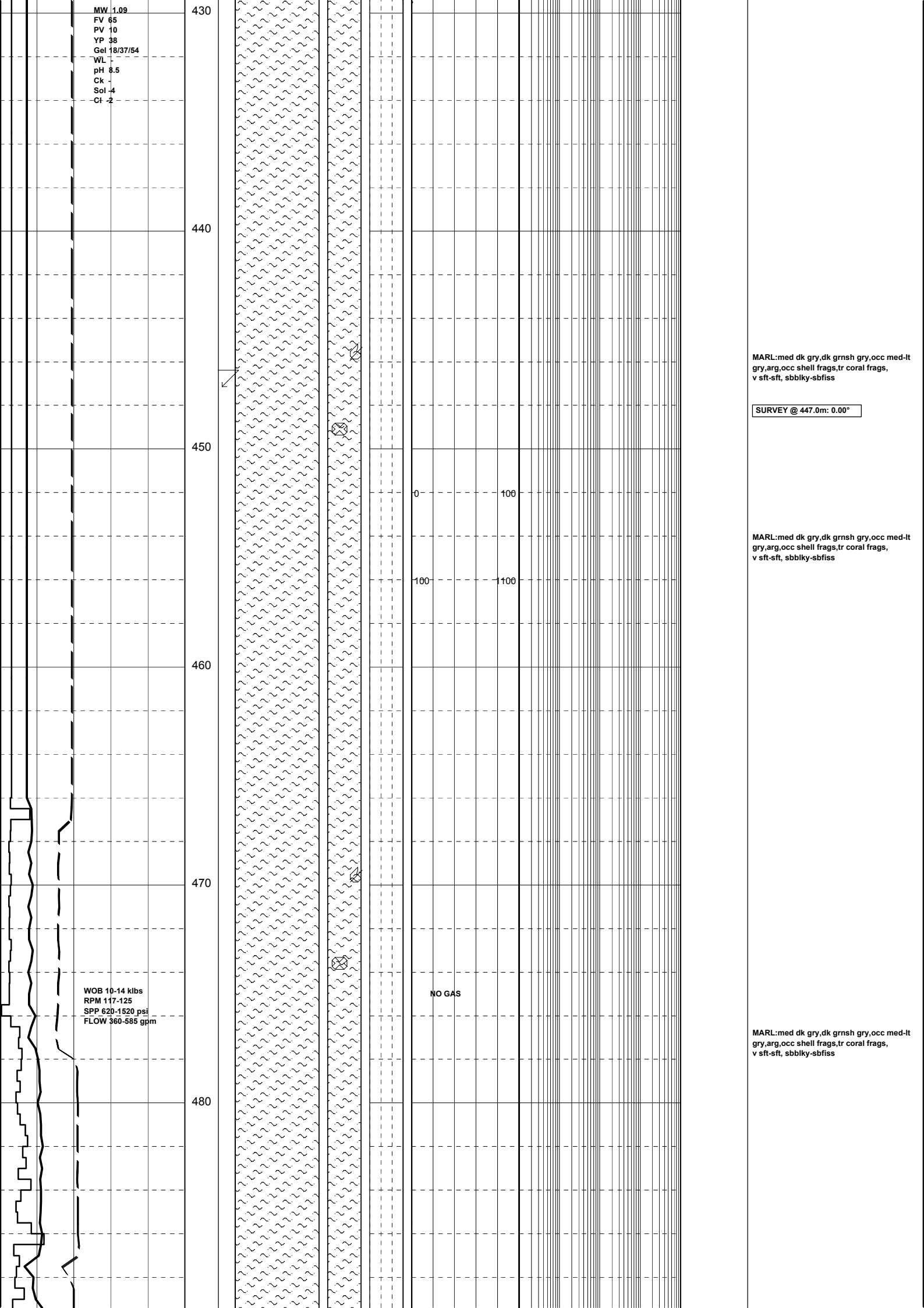
440

450

460

470

480

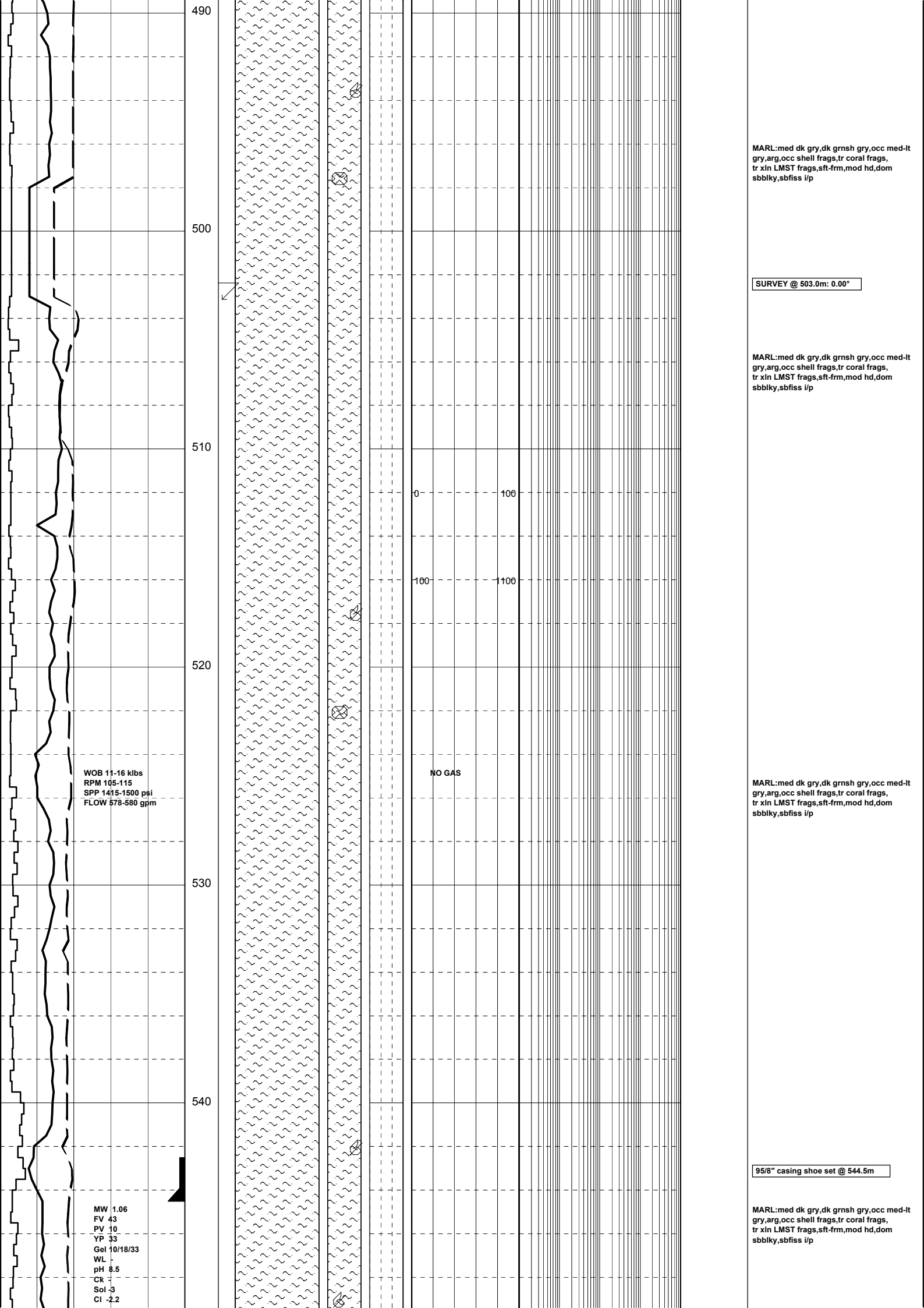


MARL: med dk gry, dk grnsh gry, occ med-ht gry, arg, occ shell frags, tr coral frags, v sft-sft, sbblky-sbfiss

SURVEY @ 447.0m: 0.00°

MARL: med dk gry, dk grnsh gry, occ med-ht gry, arg, occ shell frags, tr coral frags, v sft-sft, sbblky-sbfiss

MARL: med dk gry, dk grnsh gry, occ med-ht gry, arg, occ shell frags, tr coral frags, v sft-sft, sbblky-sbfiss



MARL: med dk gry, dk grnsh gry, occ med-lt gry, arg, occ shell frags, tr coral frags, tr xln LMST frags, sft frm, mod hd, dom sbbiky, sbfiss i/p

SURVEY @ 503.0m: 0.00°

MARL: med dk gry, dk grnsh gry, occ med-lt gry, arg, occ shell frags, tr coral frags, tr xln LMST frags, sft frm, mod hd, dom sbbiky, sbfiss i/p

0 100
100 160

NO GAS

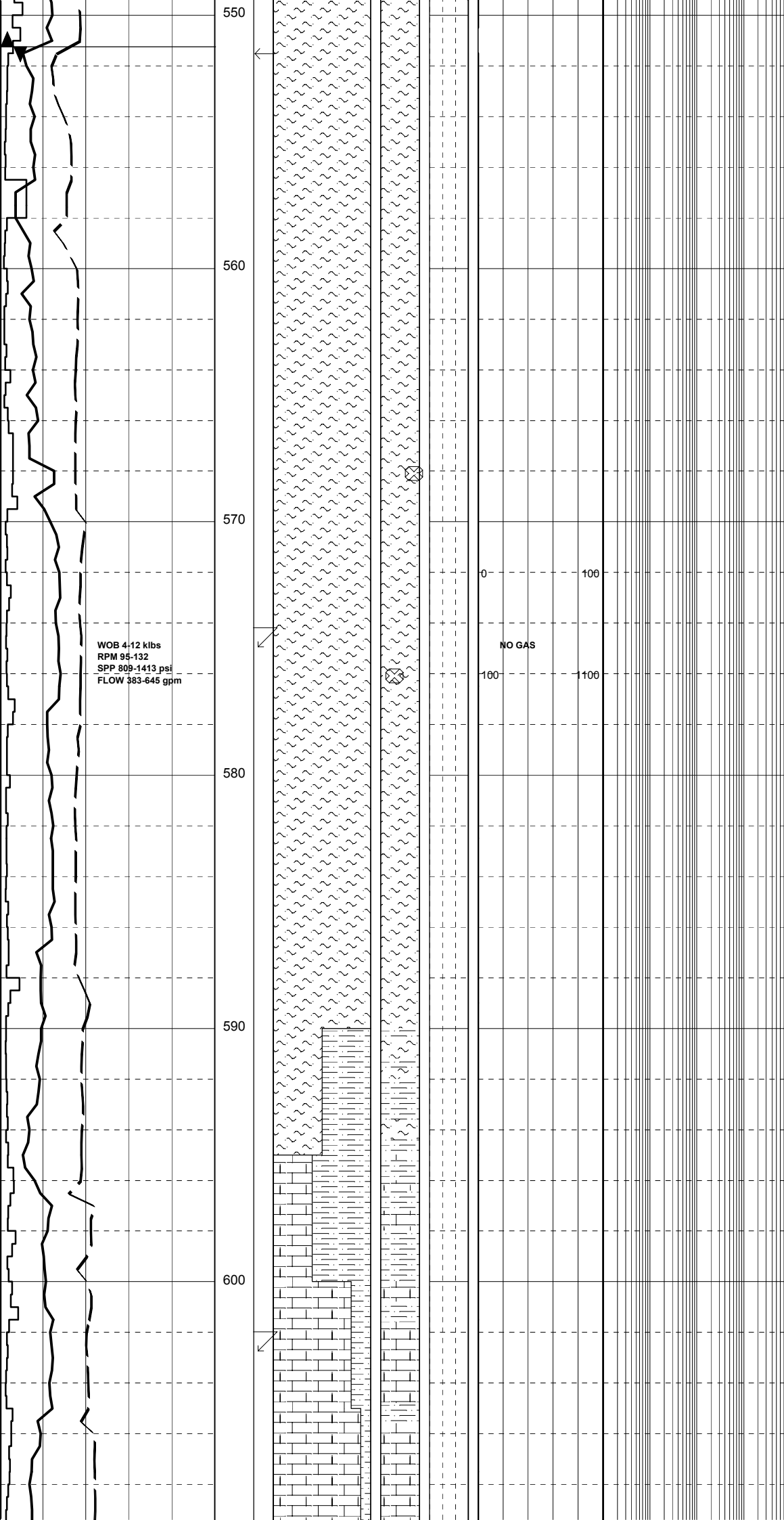
MARL: med dk gry, dk grnsh gry, occ med-lt gry, arg, occ shell frags, tr coral frags, tr xln LMST frags, sft frm, mod hd, dom sbbiky, sbfiss i/p

95/8" casing shoe set @ 544.5m

MARL: med dk gry, dk grnsh gry, occ med-lt gry, arg, occ shell frags, tr coral frags, tr xln LMST frags, sft frm, mod hd, dom sbbiky, sbfiss i/p

WOB 11-16 klbs
RPM 105-115
SPP 1415-1500 psi
FLOW 578-580 gpm

MW 1.06
FV 43
PV 10
YP 33
Gel 10/18/33
WL
pH 8.5
CR 1
Sol 3
CI -2.2



FIT @ 551m:
MWE:14.4 ppg

MARL: med-dk gry, lt olv gry, occ med-lt gry, arg, occ shell frags, tr coral frags, tr xln LMST frags, sft-frm, mod hd, dom sbbiky, sbfiss i/p, tr SLTST.

SURVEY @ 575.0m: 0.00°

MARL: med-dk gry, lt olv gry, occ med-lt gry, arg, occ shell frags, tr coral frags, tr xln LMST frags, sft-frm, mod hd, dom sbbiky, sbfiss i/p, tr SLTST.

SILTSTONE: pl-med gry, grysh gry, sli-med dk gry, tr aren, i/p v calc, sft-frm, sbbiky-sbfiss, amorph.

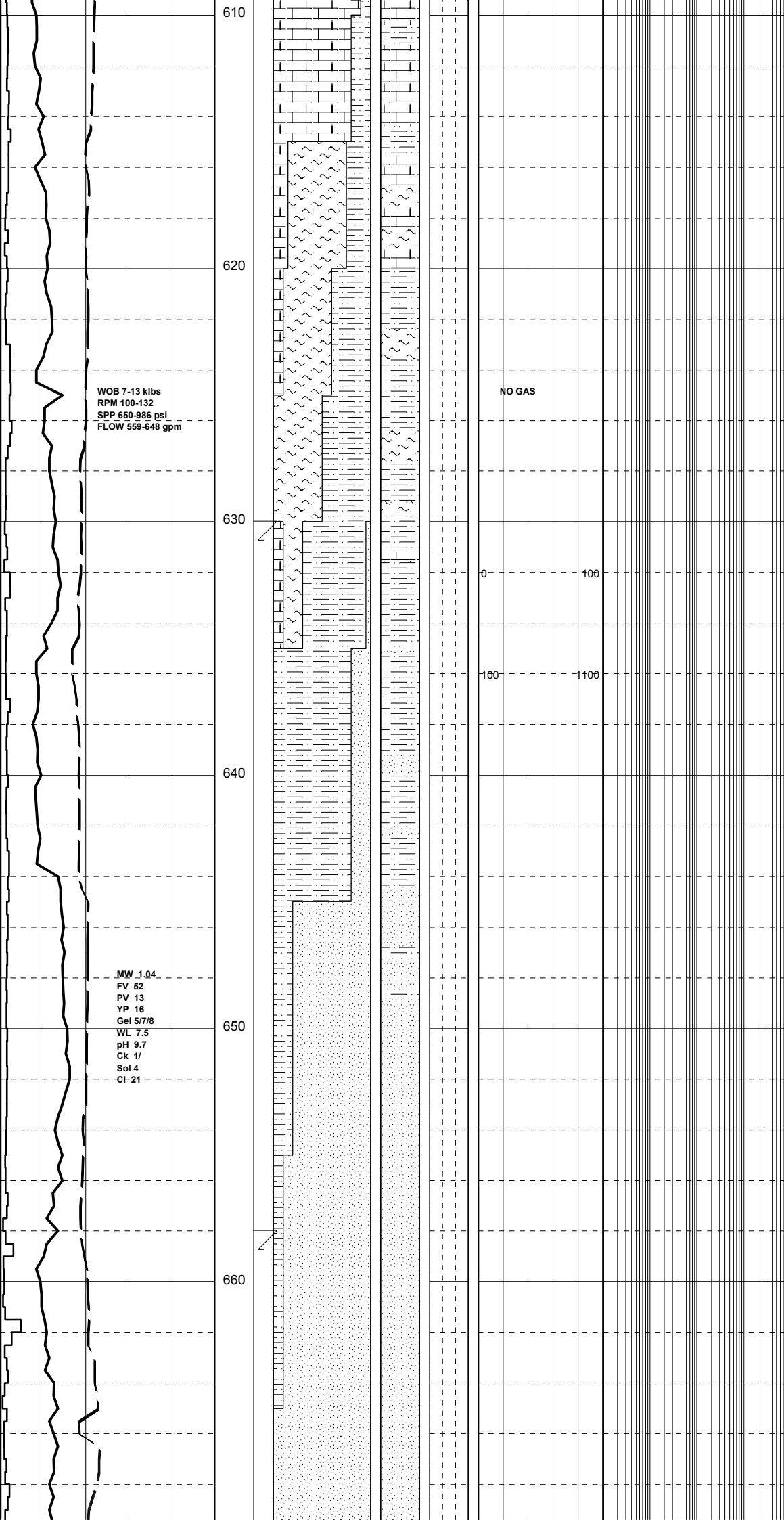
LIMESTONE: orng, dk yelsh orng, grysh orng, off wh, micr, v calc, arg, tr foss, micr xln, frm-v hd, pred mod hd, sft i/p.

SURVEY @ 603.0m: 0.00°

SILTSTONE: lt med gry, pl olv gry, arg, calc, disp-sft, frm l/p, biky-amorph.

WOB 4-12 klbs
RPM 95-132
SPP 809-1413 psi
FLOW 383-645 gpm

NO GAS



LIMESTONE: org, dk yelsh org, grysh org, off wh, micr, v calc, arg, tr foss, micrxln, frm-v hd, pred mod hd, sft i/p.

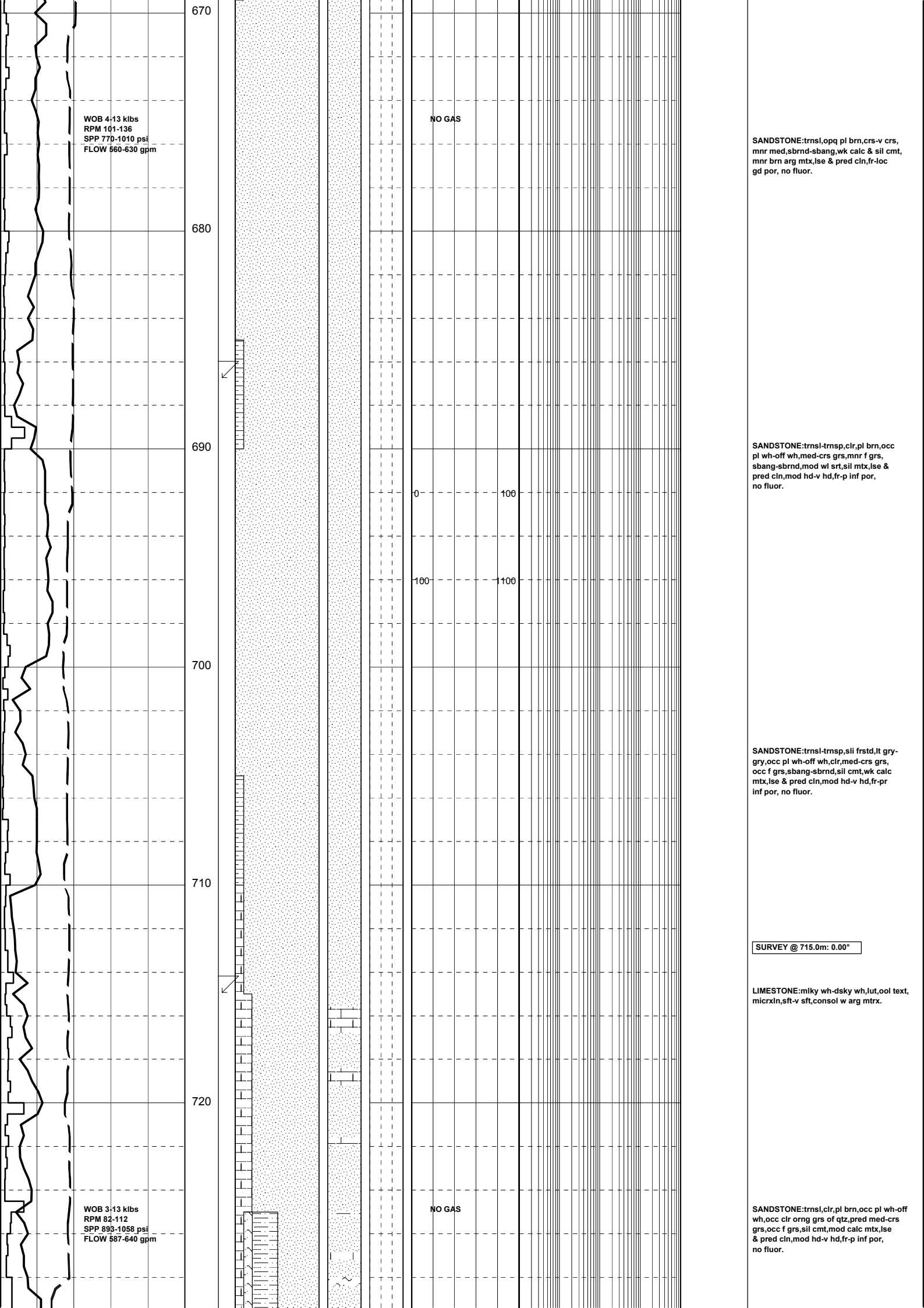
MARL: pl brn, grysh brn, sli pl olv, arg, calc, disp-sft, sft-frm, i/p, blkly-amorph.

SURVEY @ 631.0m: 0.00°

SANDSTONE: trnsl, lt brn, grysh brn, frstd, rr mlky, med-crs i/p, com v crs, mnr f, mod wl srt, pred lse qtz grs, sbang-sbrnd, fr-gd por, no fluor.

SURVEY @ 687.0m: 0.00°

SANDSTONE: trnsl, opq brn, sli frstd, com crs-v crs, mnr med, sbrnd-sbang, wk calc & sil cmt, mnr brn arg mtx, lse & pred cln, v crs i/p, fr-gd por, no fluor.



WOB 4-13 klbs
 RPM 101-136
 SPP 770-1010 psi
 FLOW 560-630 gpm

NO GAS

SANDSTONE:trnsi,opq pl brn,crs-v crs,
 mnr med,sbrnd-sbang,wk calc & sil cmt,
 mnr brn arg mtx,lse & pred cln,fr-loc
 gd por, no fluor.

SANDSTONE:trnsi-trnsp,clr,pl brn,occ
 pl wh-off wh,med-crs grs,mnr f grs,
 sbang-sbrnd,mod wl srt,sil mtx,lse &
 pred cln,mod hd-v hd,fr-p inf por,
 no fluor.

SANDSTONE:trnsi-trnsp,sli frstd,lt gry-
 gry,occ pl wh-off wh,clr,med-crs grs,
 occ f grs,sbang-sbrnd,sil cmt,wk calc
 mtx,lse & pred cln,mod hd-v hd,fr-pr
 inf por, no fluor.

SURVEY @ 715.0m: 0.00°

LIMESTONE:mlky wh-dsky wh,lut,ool text,
 micrxln,sft-v sft,consol w arg mtr.

WOB 3-13 klbs
 RPM 82-112
 SPP 893-1058 psi
 FLOW 587-640 gpm

NO GAS

SANDSTONE:trnsi,clr,pl brn,occ pl wh-off
 wh,occ clr org grs of qtz,pred med-crs
 grs,occ f grs,sil cmt,mod calc mtx,lse
 & pred cln,mod hd-v hd,fr-p inf por,
 no fluor.



MW 1.04
 FV 47
 PV 12
 YP 18
 Gel 7/9/11
 WL 7.0
 pH 9.5
 Ck 1/
 Sol 6
 Ct 22

WOB 4-15 klbs
 RPM 85-114
 SPP 892-1058 psi
 FLOW 506-634 gpm

SANDSTONE:trnsi-clr,pl brn,occ wh-off wh,occ cln org grs of qtz,pred med-crs,occ f,sil smt,mod calc cmt, tr arg mtx,gen lse & cln,mod hd-v hd,fr inf por,no fluor.

SURVEY @ 744.0m: 0.00°

SANDSTONE:trnsi-clr,opq-mod brn, dom med-crs,occ f,mod sil cmt,loc strg calc cmt, tr arg mtx,dom cln & lse,occ qtz grs w Fe stn,fr inf por, no fluor.

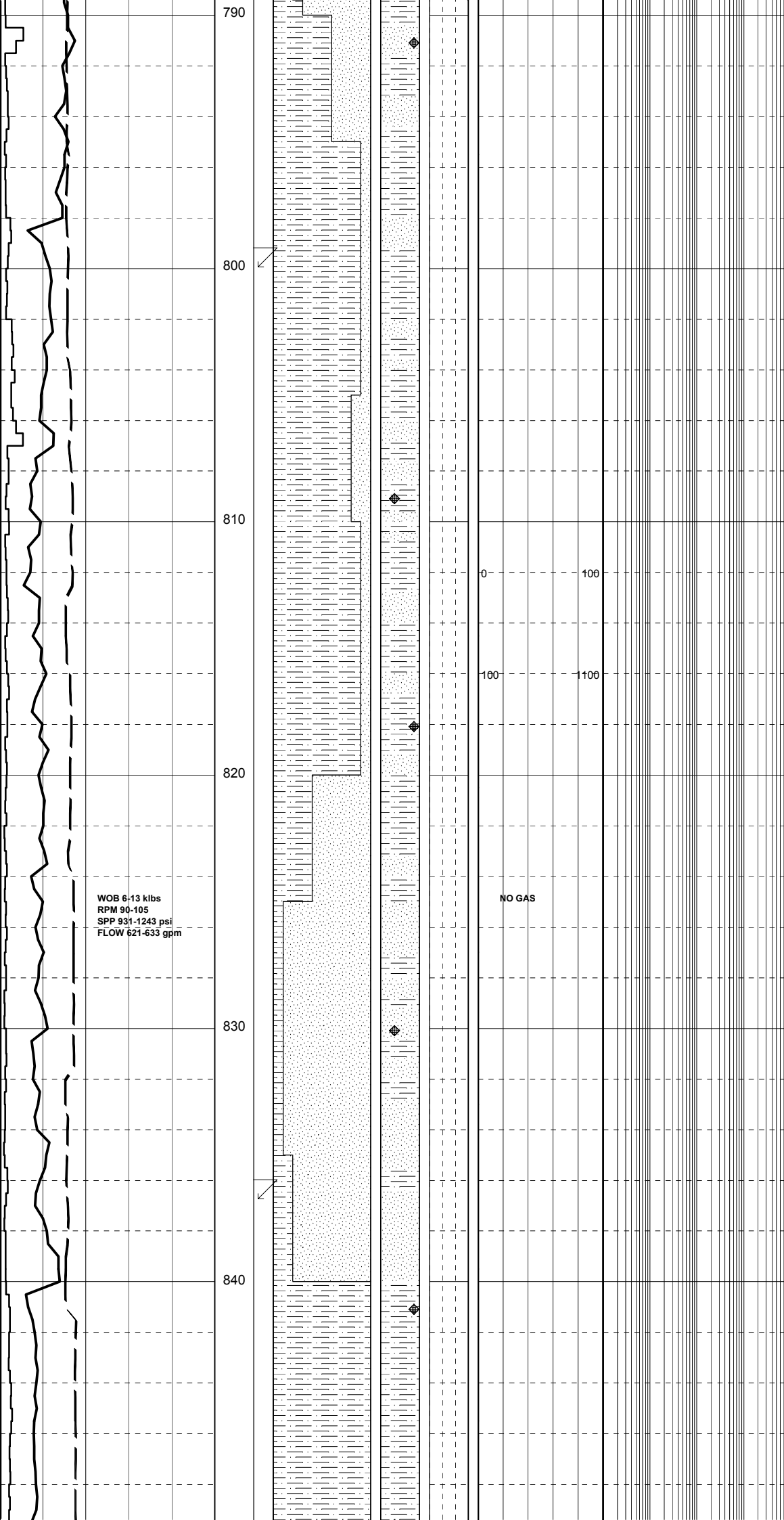
SANDSTONE:trnsi-clr,opq-mod brn, pred med-crs,occ v crs, tr f,sbrnd-rnd,rr ang, tr wk sil cmt,com loc calc cmt, tr off wh-wh arg mtx, tr calc mat,dissem pyr,fr-loc gd inf por,no fluor.

SURVEY @ 772.0m: 0.00°

NO GAS

SANDSTONE:trnsi-clr,opq-pl yelsh brn,occ mlky,dk brn grs,dom crs-v crs,com med,occ f,v pr srt,rnd-sbrnd, occ sbang,com sil cmt,occ loc v strg calc cmt,rr v strg pyr cmt, tr pl gry arg mtx,com dissem pyr, tr glauc,dom lse & cln,rr hd-v hd aggs,nil vis por, fr inf por,no fluor.

SILTSTONE:dk grysh brn-grysh blk, occ pl yelsh brn,dom arg, tr calc,mnr dissem pyr, tr grn & blk liths,sft-disp,sbbky-amorph.



SILTSTONE:dk grysh brn-grysh blk,
occ pl yelsh brn,dm arg,tr calc,mnr
dissem pyr,tr grn & blk liths,sft-
disp,sbbkly-amorph.

SURVEY @ 800.0m: 0.00°

SILTSTONE:dk grysh brn,grysh blk
i/p,occ pl gry-grn,arg,tr calc,occ
nod & dissem pyr,grn liths,sft-disp,
pred sbbkly,amorph i/p.

SANDSTONE:trnsi-clr,opq,f-occ med,
mod wl srt,sbang-sbrnd,occ rnd,wk
sil cmt,dk brn arg mtx,com lse,fr-
mod hd i/p,pr vis & inf por,no fluor.

SILTSTONE:dk grysh brn,dk brn i/p,
arg,com nod pyr & dissem pyr,tr pyr
cmt,tr carb spks & flks,sft-disp,frm
i/p,sbbkly.

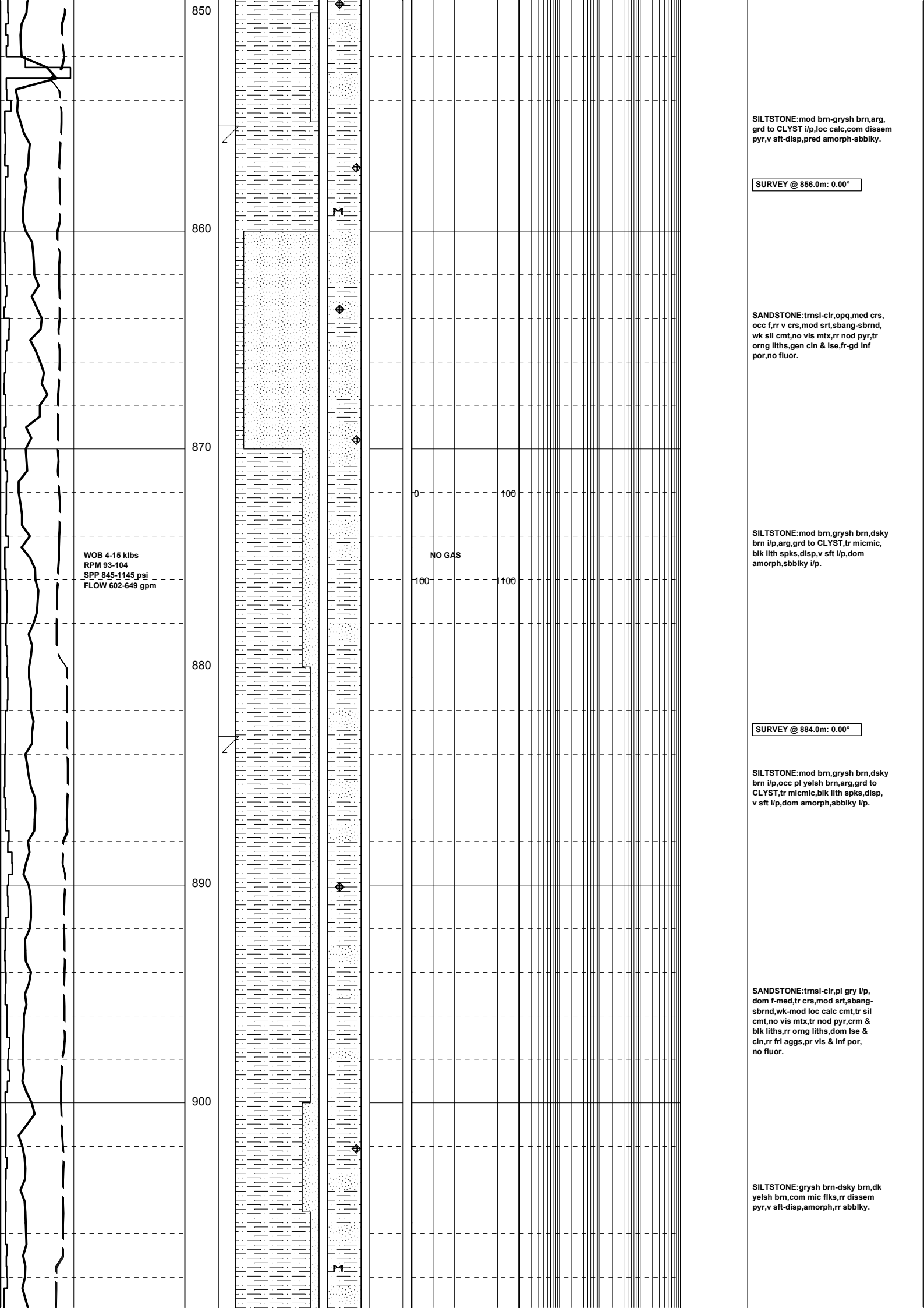
SANDSTONE:trnsi-clr,mky-opq,dm
med-crs,rr v crs & f,pr srt,sbang-
sbrnd,wk sil cmt,tr pl brn-off wh
arg mtx,dm cln & lse,fr-gd inf
por,no fluor.

SILTSTONE:med-dk brnsh gry,dk brn
i/p,arg,tr loc aren,mnr dissem pyr,
tr micmic,sft-disp,sbbkly-amorph.

SANDSTONE:trnsi-clr,opq-frstd,rr
mky,tr v pl brn,f-med,com crs-v crs,
pr srt,sbang-sbrnd,wk sil cmt,tr brn
arg mtx,gen cln & lse,tr nod pyr,mic,
mnr ang frac qtz grs,fr inf por,no
fluor.

SURVEY @ 837.0m: 0.00°

SILTSTONE:mod grysh brn,dsky brn
i/p,arg,tr micmic,dissem pyr,v sft-
dom disp,dm amorph,sbbkly i/p.



SILTSTONE:mod brn-grysh brn,arg, grd to CLYST i/p,loc calc,com dissem pyr,v sft-disp,pred amorph-sbbkly.

SURVEY @ 856.0m: 0.00°

SANDSTONE:trnsi-clr,opq,med crs, occ f,rr v crs,mod srt,sbang-sbrnd, wk sil cmt,no vis mtx,rr nod pyr,tr org liths,gen cln & lse,fr-gd inf por,no fluor.

SILTSTONE:mod brn,grysh brn,dsky brn i/p,arg,grd to CLYST,tr micmic, blk lith spks,disp,v sft i/p,dom amorph,sbbkly i/p.

SURVEY @ 884.0m: 0.00°

SILTSTONE:mod brn,grysh brn,dsky brn i/p,occ pl yelsh brn,arg,grd to CLYST,tr micmic,blk lith spks,disp, v sft i/p,dom amorph,sbbkly i/p.

SANDSTONE:trnsi-clr,pl gry i/p, dom f-med,tr crs,mod srt,sbang-sbrnd,wk-mod loc calc cmt,tr sil cmt,no vis mtx,rr nod pyr,crm & blk liths,rr org liths,dom lse & cln,rr fri aggs,pr vis & inf por, no fluor.

SILTSTONE:grysh brn-dsky brn,dk yelsh brn,com mic fiks,rr dissem pyr,v sft-disp,amorph,rr sbbkly.

WOB 4-15 klbs
RPM 93-104
SPP 845-1145 psi
FLOW 602-649 gpm

NO GAS

850

860

870

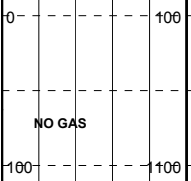
880

890

900

M

M



SURVEY @ 912.0m: 0.00°

SANDSTONE:trnsi-clr,opq-frstd,rr
v pl brn,dom med-crs,occ f & v crs,
pr srt,sbang-sbrnd,wk sil cmt,mnr-
loc v strg pyr cmt,no vis mtx,dom
lse & cln,occ nod pyr,rr mic flks,
tr org & crm liths,fr-gd inf por,
no fluor.

SILTSTONE:grysh brn,pl-dk yelsh,
arg,com dissem pyr,sft-disp,frm i/p,
sbbky-amorph.

SANDSTONE:trnsi-clr,frstd-opq,v
pl yel,med-crs,occ v crs,rr f,pr srt
sbang-sbrnd,wk sil cmt,loc strg pyr
cmt,tr pl brn arg mtx,com nod pyr,
tr org liths,gen cln & lse,fr-gd
inf por,no fluor.

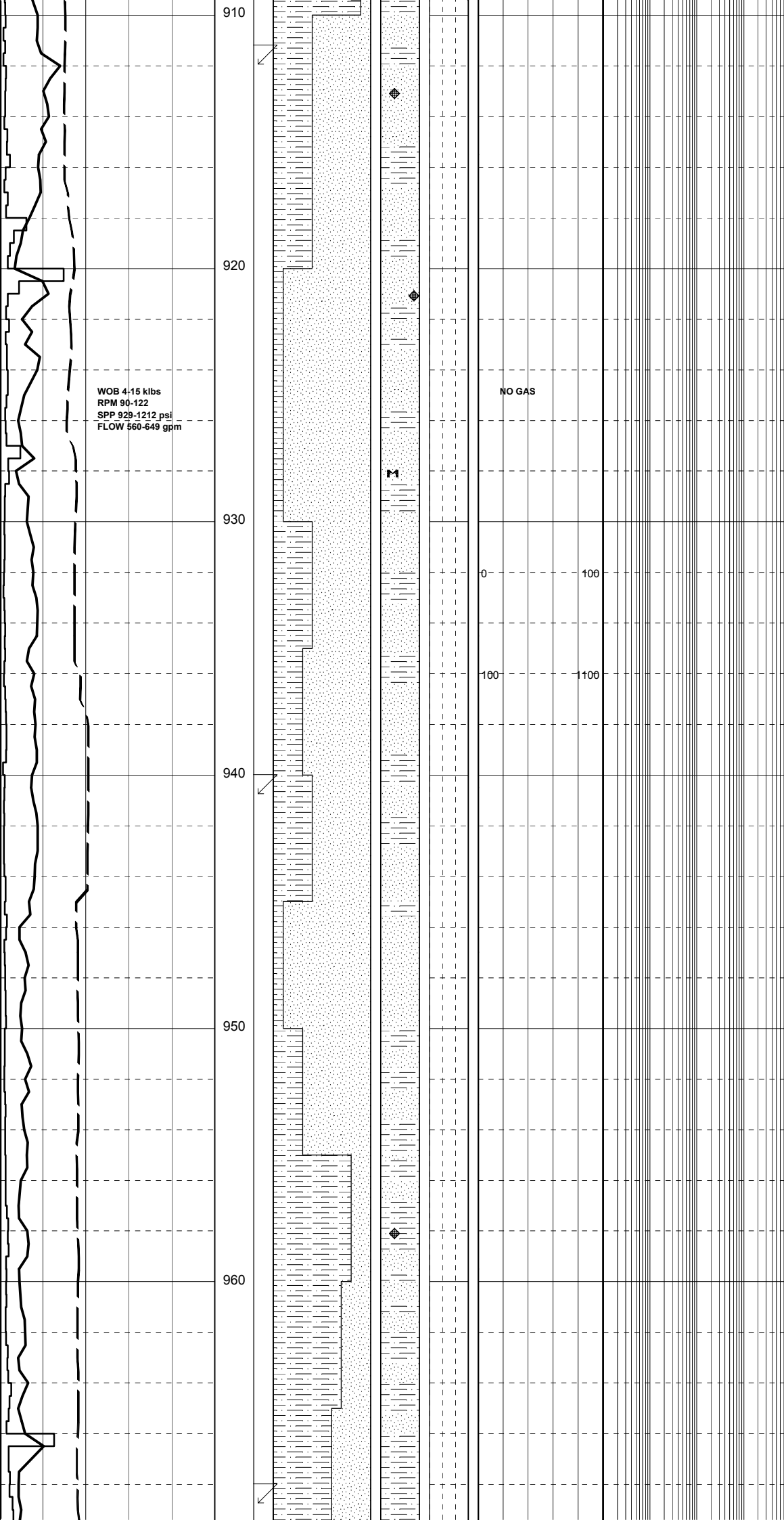
SURVEY @ 941.0m: 0.00°

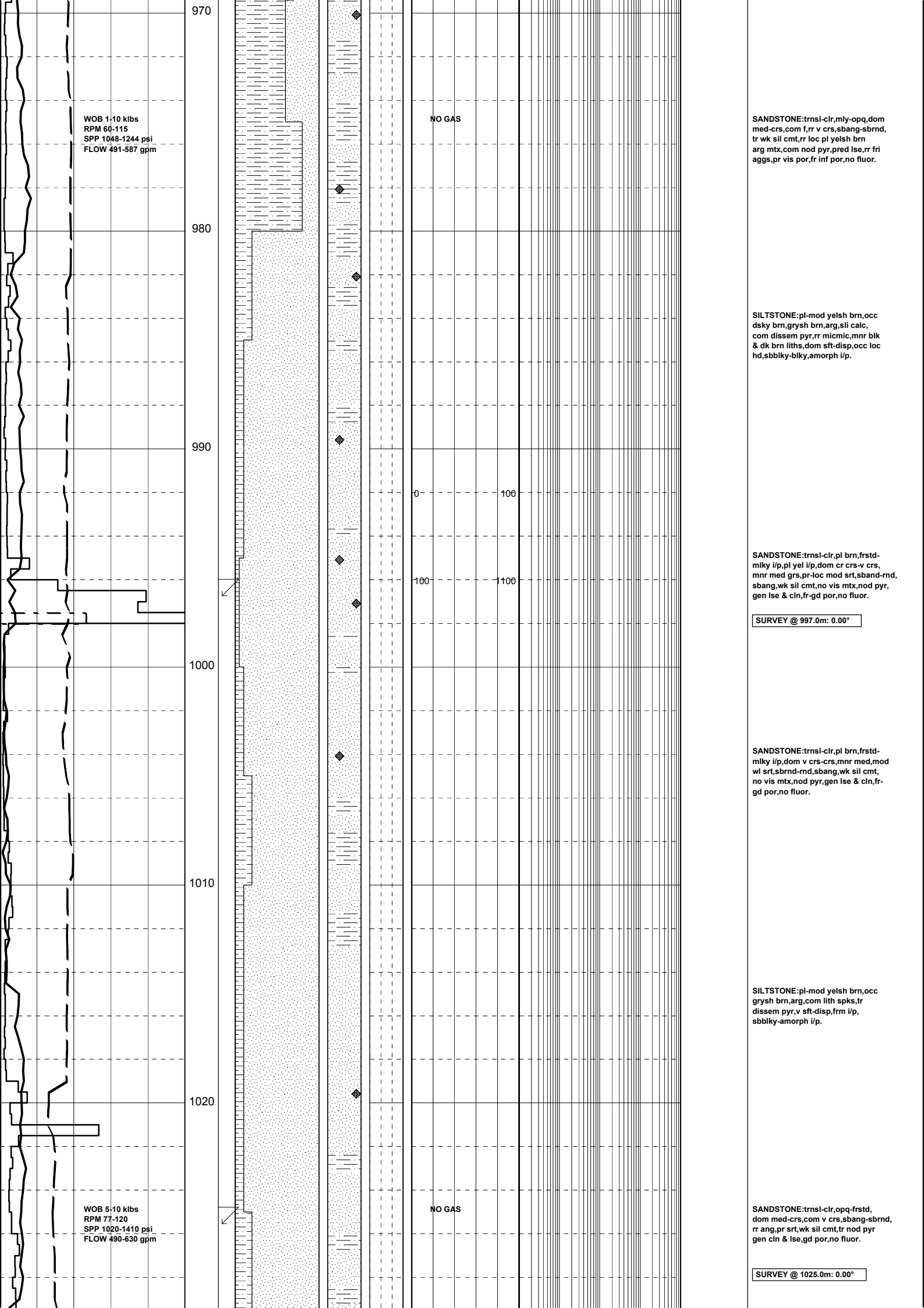
SILTSTONE:grysh brn,pl-dk yelsh,
arg,com dissem pyr,sft-disp,frm i/p,
sbbky-amorph.

SILTSTONE:mod brn-grydh brn,dsky
brn i/p,arg,grd to CLYST i/p,com
dissem pyr,micmic,disp,rr v sft-sft,
pred amorph,mnr sbbky.

SANDSTONE:trnsi-clr,frstd-opq,v
pl yel,med-crs,occ v crs,rr f,pr srt
sbang-sbrnd,wk sil cmt,loc strg pyr
cmt,tr pl brn arg mtx,com nod pyr,
tr org liths,gen cln & lse,fr-gd
inf por,no fluor.

SURVEY @ 969.0m: 0.00°





MW 1.06
FV 58
PV 16
YP 22
Gel 7/10/12
WL 6.5
pH 9.0
Ck 1/
Sol 6
Cl 22

WOB 4-10 klbs
RPM 84-112
SPP 1020-1420 psi
FLOW 520-630 gpm

NO GAS

SILTSTONE:pl-dk yelsh brn,brnsh
gry,arg,com nod & dissem pyr,tr blk
micolams,pred sft-disp,loc frm-mod
hd,sbbiky-blk,amorph i/p.

CARBIDE LAG CHECK @ 1037m
THEOR. STKS: 3213
ACTUAL STKS: 3428
HOLE IS 6.0% O.G

TOTCO SURVEY @ 1044m: 0.00°

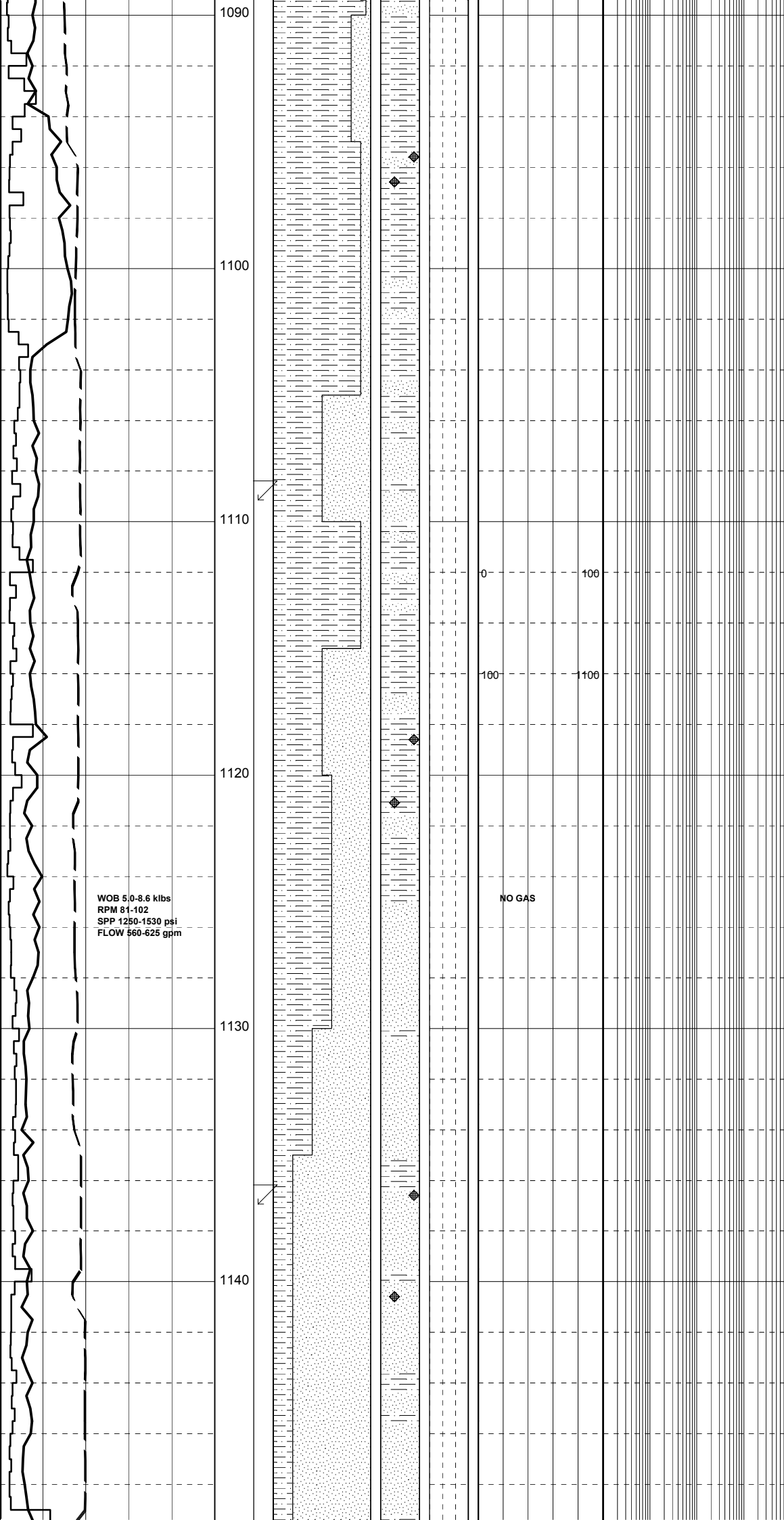
SILTSTONE:pl brnsh gry-med gry,grnsh gry,
arg,com dissem pyr,disp-sft,pred
sbbiky-sbfiss,rr blk,grd to CLYST,
amorph

SURVEY @ 1053m: 0.00°

SILTSTONE:pl brnsh gry-lt olv gry,grnsh
gry,arg,com dissem pyr,disp-sft,pred
sbbiky-blky,rr sbfiss,grd to CLYST,
amorph

SURVEY @ 1081m: 0.00°

SANDSTONE:trnsi-trnsp,frstd,dom med grs,
i/p f grs,mod wl srt,sbang-sbrnd,strg
sil cmt,no vis mtx,mod hd-v hd,pred lse
& cln grs,fr inf por,no fluor.



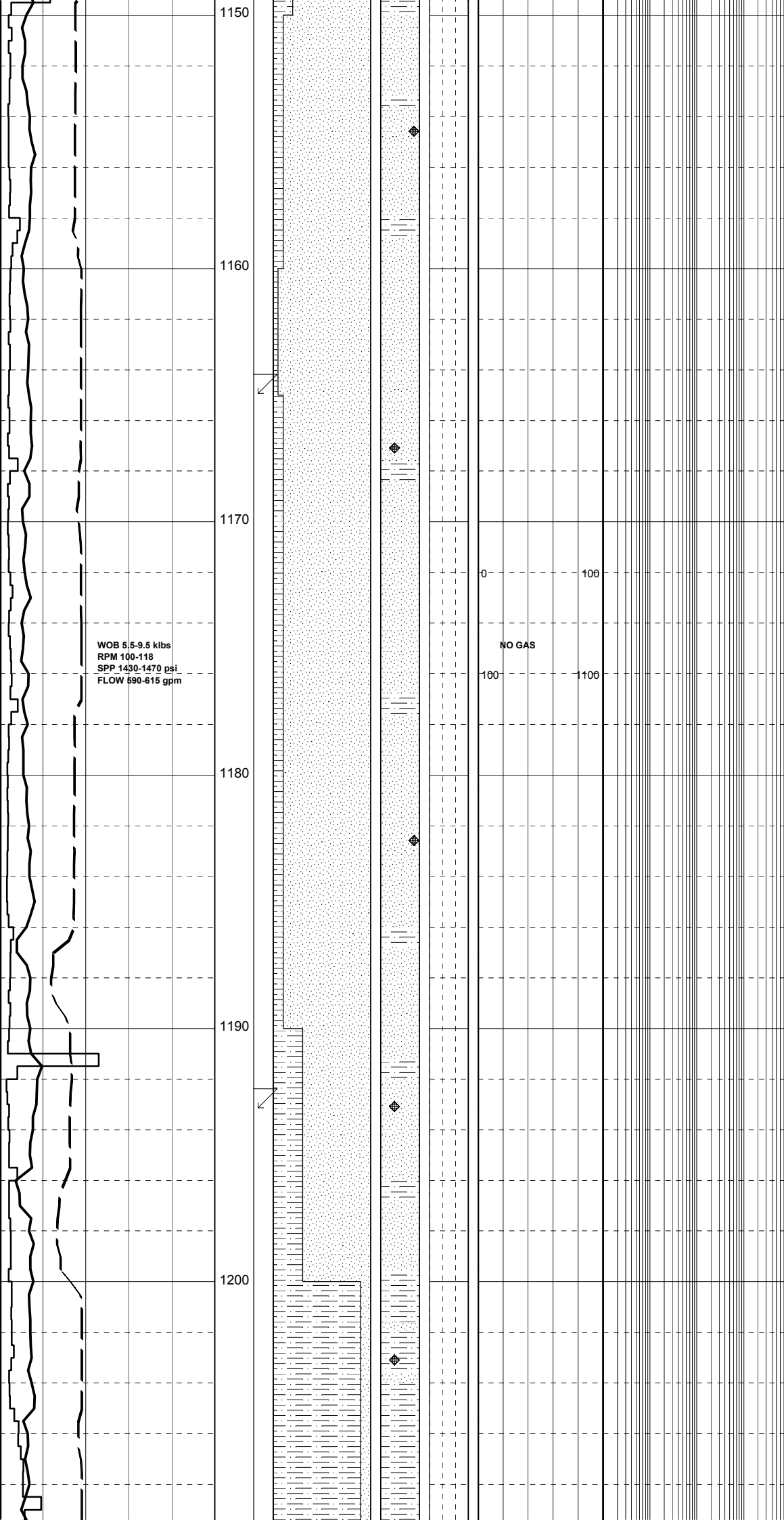
SANDSTONE:trnsi-trnsp,rr opq,occ pl yel-
 lt orng,dom med grs,rr f grs,mod wl srt,
 pred sbrnd,stg sil cmt,no vis mtb,tr pyr,
 lse & cin grs,mod hd-v hd,fr inf por,no
 fluor.

SURVEY @ 1109m: 0.00°

SILTSTONE:med gry-dk gry,lt olv gry,
 aren,tr pyr,dom mod hd-hd,rr sft,pred
 sbbky,rr sbfiss,grd to CLYST.

SANDSTONE:pl yel,trnsl,yelsh brn,sl
 frstd,cir,med-v crs,mnr f,pred crs grs,
 mod wl srt,sbang-sbrnd,mnr sil cmt,tr
 mnr brn & wh arg mtb,lse,no fluor.

SURVEY @ 1137m: 0.00°



SANDSTONE:pl yelsh gry,grysh yel,trnsl, med-crs grs,f grs i/p,mod wl srt,mod strg sil cmt,no vis mtx,mnr pyr,pred lse grs, fr inf por,no fluor.

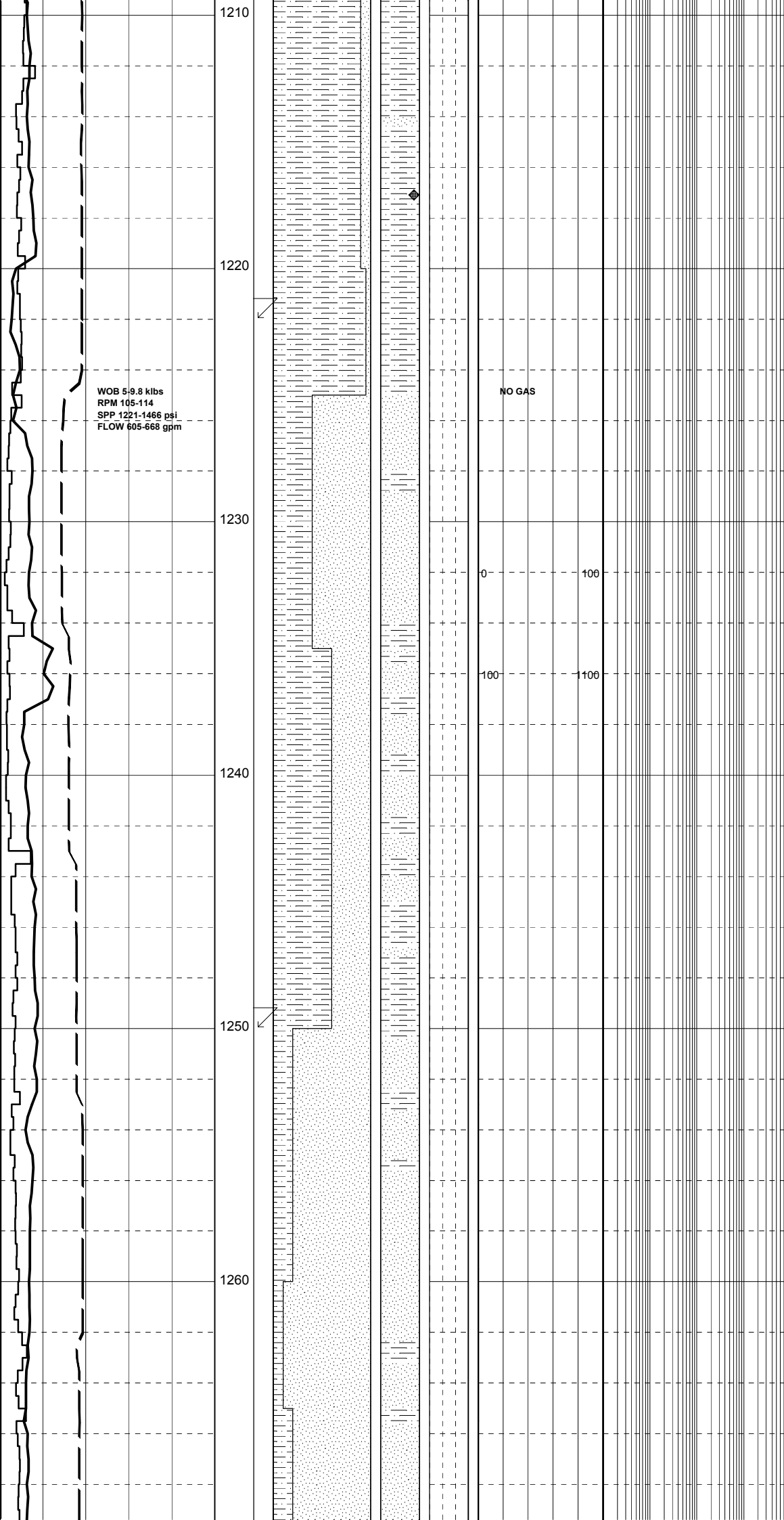
SURVEY @ 1165m: 0.00°

SANDSTONE:pl yelsh gry-lt yelsh gry, trnsl,pred med-f grs,crs grs i/p,mod wl srt,wk sil cmt,no vis mtx,tr pyr, lse & cin grs,mod hd-hd,fr-gd inf por, no fluor.

SILTSTONE:med gry-dk gry,brnsh gry,rr grnsh gry,arg,tr pyr,sft-disp,sbbiky, sbfiss i/p

SURVEY @ 1193m: 0.00°

SILTSTONE:med grnsh gry-dk grnsh gry, olv gry,brnsh blk,arg,mnr pyr,pred sft-disp,rr frm-mod hd,tr sbbiky,amorph



WOB 5:9.8 klbs
 RPM 105-114
 SPP 1221-1466 psi
 FLOW 605-668 gpm

NO GAS

SILTSTONE: med grnsh gry-dk grnsh gry, olv gry, brnsh blk, arg, mnr pyr, pred sft-disp, rr frm-mod hd, sbbiky, amorph

SURVEY @ 1222m: 0.00°

SILTSTONE: med grnsg gry-dk grnsh gry, olv gry, brnsh blk, arg, mnr pyr, pred sft-disp, rr frm-mod hd, sbbiky-blky, amorph.

SURVEY @ 1250m: 0.00°

SANDSTONE: clr-trnsl, frstd, pl gry, tr yelsh gry, vf-med, mnr crs, dom f grs, mod wl-loc wl srt, sbang-sbrnd, tr ang, v crs frac grs, tr wk calc & sil cmt, tr grysh brn arg mtx, com muscovite fiks, lse & pred cln, fr por, no fluor.

SILTSTONE: lt-med gry, sli brnsh gry, arg, aren, grd to vf SST i/p, com micmic, sft-mnr frm, com disp-sft, blk-y-sbbiky, tr sbfiss i/p, com amorph.

SANDSTONE: trnsl-trnsp, clr, mnr yelsh gry, pred-med-f ars crs ars i/p, mod

wl srt, strg sil cmt, no vis mtx, tr carb spks, tr pyr nuds, lse, mod hd-hd aggs, fr inf and pr vis por, no fluor.

SURVEY @ 1278m: 0.00°

SANDSTONE: trnsi, frstd, mnr clr, sli yelsh gry, vf-v crs, dom med-crs, mod wl srt, sbang-sbrnd, wk sil cmt, rr off wh mtrx, tr blk & pnksh liths, lse & cln, fr por, no fluor.

SILTSTONE: lt-occ dk gry, aren, arg i/p, sft-frm, blk-y-sbbkly, amorph.

SANDSTONE: clr-trnsi, pl gry, pl yel, f-v crs, pred med-crs, mod wl srt, sbang-sbrnd, wk sil cmt, no vis mtx, nod pyr, lse & cln, fr-gd por, no fluor.

CARBIDE LAG CHECK @ 1300m
THEOR. STKS: 3977
ACTUAL STKS: 4200
HOLE IS 5.6% O.G

SANDSTONE: trnsi-clr, tr pl yelsh brn, dom med-f, crs i/p, mod wl srt, wk sil cmt, no vis mtx, wk sil cmt, tr pyr, rr carb spks, lse & cln grs, hd-v hd, fr inf por, no fluor.

SILTSTONE: dk gry, grysh blk, occ med-dk gry, arg, sli calc, occ micmic, mnr dissep pyr, tr carb spks, dom sft-v sft, occ frm-mod hd, sbbkly-blky.

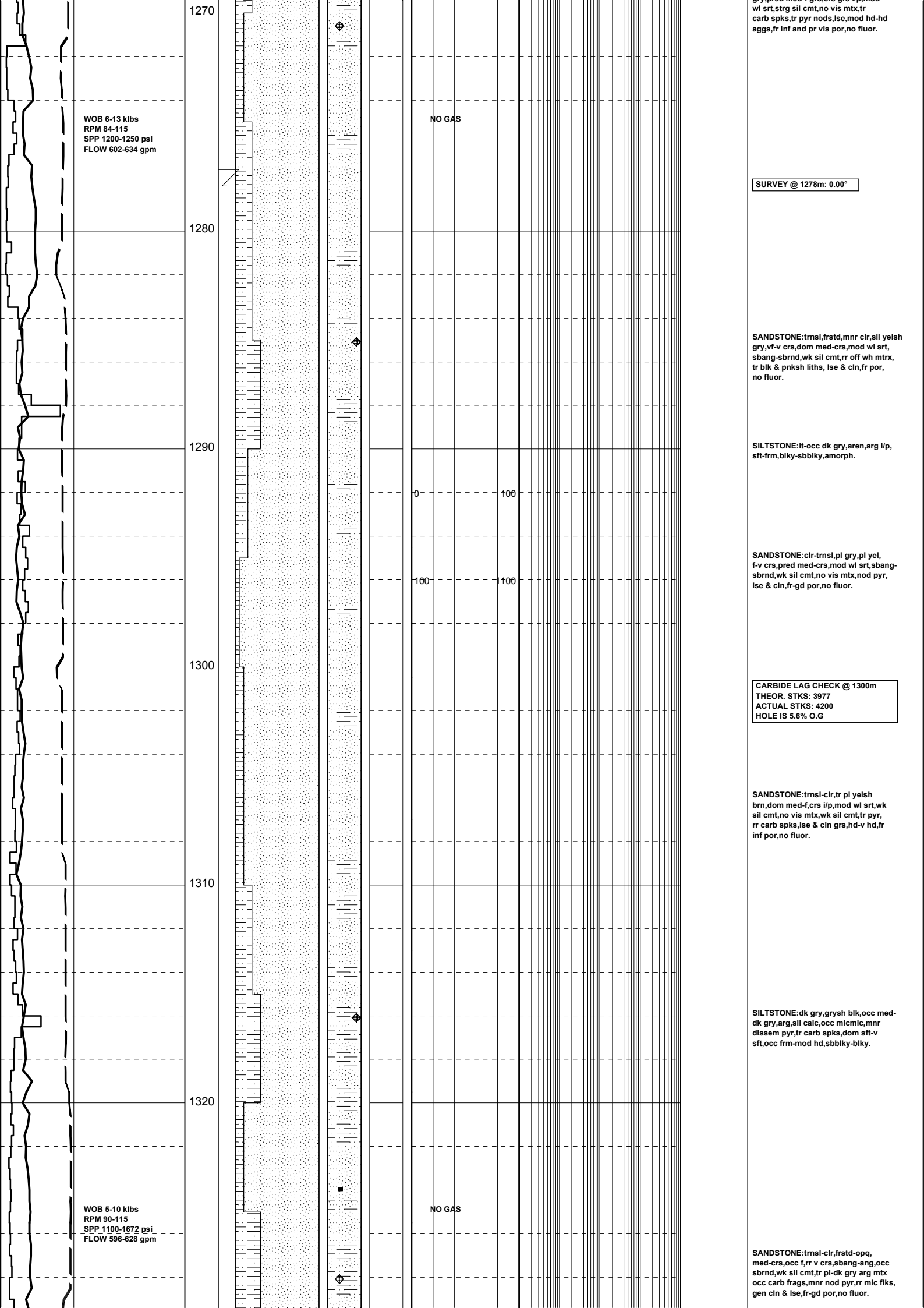
SANDSTONE: trnsi-clr, frstd-opq, med-crs, occ f, rr v crs, sbang-ang, occ sbrnd, wk sil cmt, tr pl-dk gry arg mtz occ carb frags, mnr nod pyr, rr mic flks, gen cln & lse, fr-gd por, no fluor.

WOB 6-13 klbs
RPM 84-115
SPP 1200-1250 psi
FLOW 602-634 gpm

NO GAS

WOB 5-10 klbs
RPM 90-115
SPP 1100-1672 psi
FLOW 596-628 gpm

NO GAS



MW 1.07
FV 52
PV 15
YP 28
Gel 6/8/9
WL 5.8
pH 8.7
CK 1/
Sol 7
Cl 21

SURVEY @ 1334m: 0.00°

SILTSTONE: med-dk gry, dk gry, mnr grysh blk, dom arg, com loc aren, occ carb spks, mnr dissem pyr, v sft-sft, sbbky-blky.

1330
1340
1350
1360
1370
1380

0 100
100 100

SILTSTONE: med gry, med-dk gry, arg, aren i/p, occ micmic, tr carb spks, tr glauc, v sft-disp, amorph-sbbky.

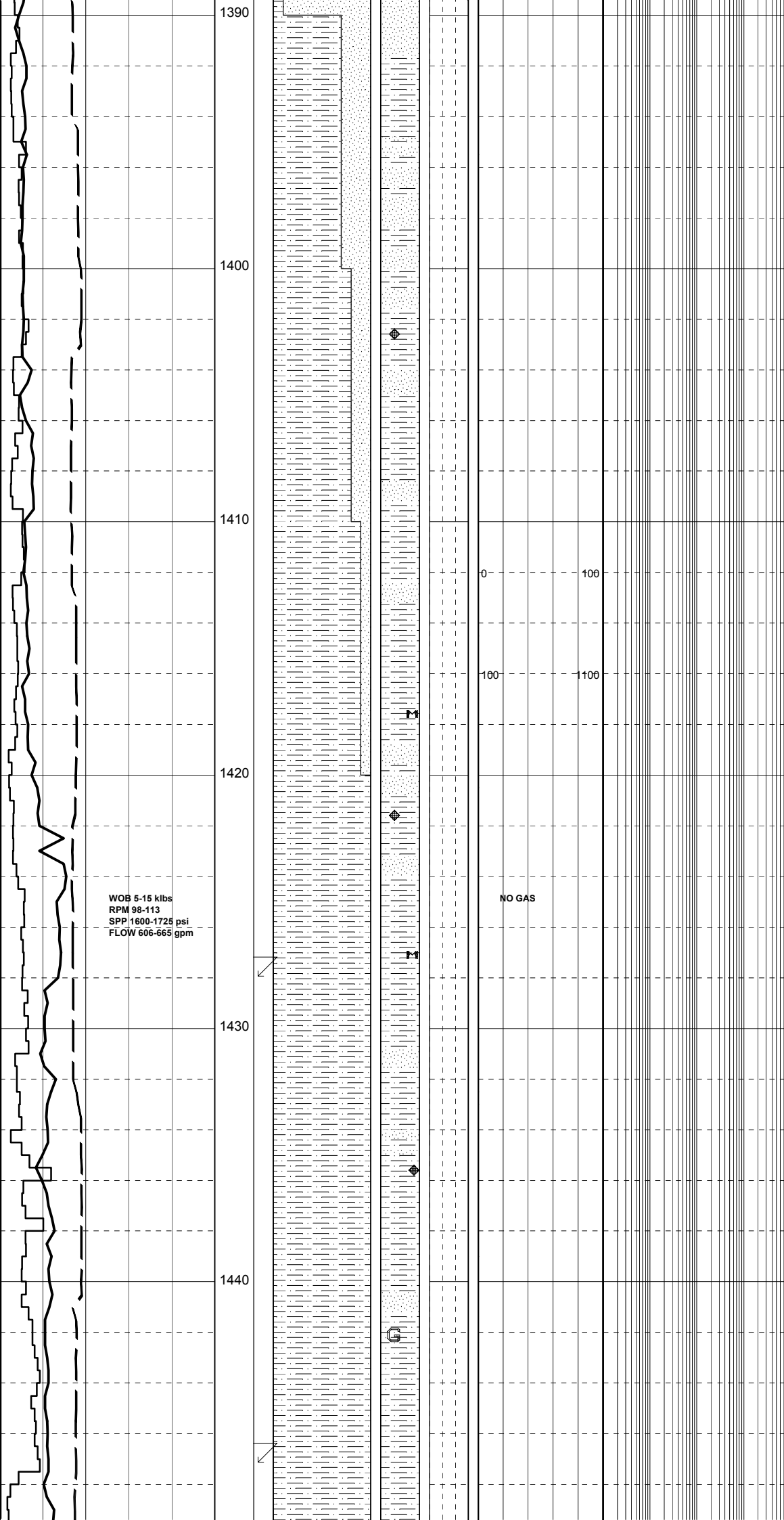
SILTSTONE: med gry, med-dk gry, arg, aren i/p, occ micmic, tr carb spks, tr glauc, v sft-disp, amorph-sbbky.

WOB 5-9 klbs
RPM 97-112
SPP 1517-1685 psi
FLOW 599-679 gpm

NO GAS

SURVEY @ 1381m: 0.50°

SANDSTONE: trnsi-clr, frstd, opq-mlky, i/p, med-crs, com v crs, occ f, sbang-sbrnd, occ ang, mod srt, tr sil cmt, tr nod pyr, carb frags cin & lse, gd inf por, no fluor.



SILTSTONE: med-dk gry, med gry, grysh
brn, arg, mnr-com carb spks, occ dissem
pyr, tr glauc, sft, disp i/p, sbbiky-amorph

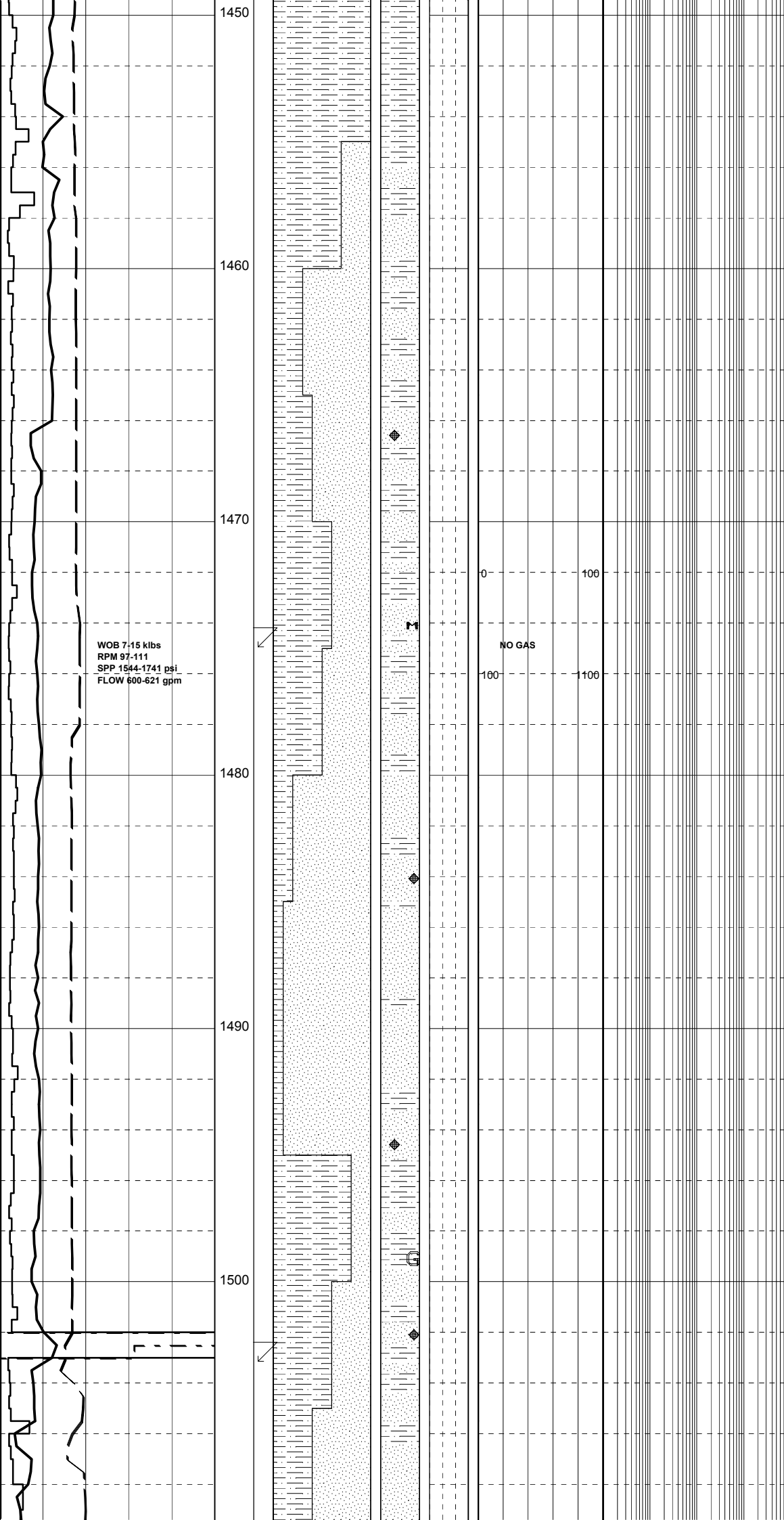
SILTSTONE: med-dk gry, grysh brn,
arg, mnr-com carb spks, occ dissem pyr,
tr glauc, sft, disp i/p, r frm, sbbiky-
biky, com amorph.

SILTSTONE: med-dk gry, brnsh gry,
arg, aren i/p, com nod & dissem pyr,
occ glauc, carb spks, sft-frm, occ disp
sbbiky-biky, amorph.

SURVEY @ 1428m: 0.50°

SILTSTONE: med-dk gry, brnsh gry,
arg, aren i/p, com nod & dissem pyr,
occ glauc, carb spks, sft-frm, occ disp
sbbiky-biky, amorph.

SURVEY @ 1447m: 0.00°



SANDSTONE:trnsi-clr,off wh-v pl gry,vf-crs,dom med-crs,pr srt,sbang-sbrnd,wk sil cmt,com loc pl gry-brn arg mtb,occ nod pyr,glauc,mnr carb spks & frags,dom cln & lse,loc fri-mod hd aggs,pr vis por,fr inf por, no fluor.

SILTSTONE:med-dk gry,grysh blk, dk gmsh gry,dom arg,aren i/p,com dissem pyr,occ micmic,nod pyr,sft-frm,sbblky-blky.

SURVEY @ 1475m: 0.00°

SANDSTONE:trnsi-clr,frstd,v pl gry,f-med,occ crs-v crs,mod srt, sbang-sbrnd,loc wk-mod sil cmt,loc pl gry arg mtb,grd to aren SLTST i/p,dom cln & lse grs,mnr-com nod pyr,occ mic,carb frags,rr mod hd aggs,pr vis por,fr-gd inf por,no fluor.

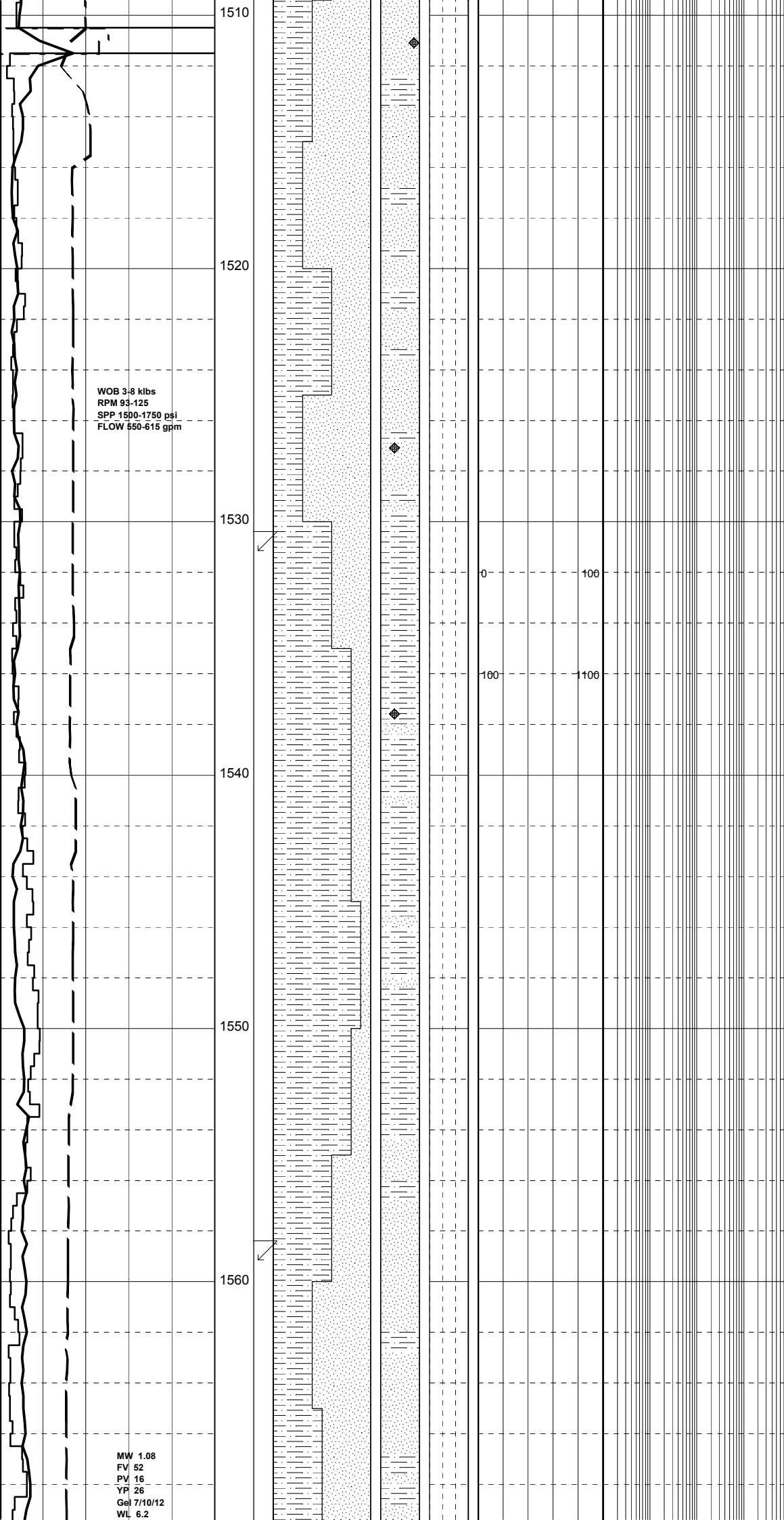
SILTSTONE:med-dk gry,grysh blk, dk gmsh gry,dom arg,aren i/p,com dissem pyr,occ micmic,nod pyr,sft-frm,sbblky-blky.

SURVEY @ 1503m: 0.00°

SILTSTONE:med-dk brn,brnsh gry, occ lt gry,dom arg,com aren,sli calc grd to vf SST i/p,com dissem pyr,occ glauc,dom frm-mod hd,sbblky-blky.

WOB 7-15 klbs
RPM 97-111
SPP 1544-1741 psi
FLOW 600-621 gpm

NO GAS



SANDSTONE:trnsi-clr,frstd,f-med,
occ crs,mod srt,sbang-sbrnd,tr wk
calc cmt,loc wk-mod sil cmt,tr pl
brn-gry arg mtx,com disse pyr,occ
carb spks & frags,tr pl yel,dom lse
& cin,occ mod hd-hd aggs,pr vis por
pr-fr inf & vis por,no fluor.

SILTSTONE:lt-med gry,dk gry,
grysh blk,aren,com arg,com disse
pyr,occ micmic,tr calc mat,dom frm-
mod hd,sft i/p,sbbiky-blky.

SURVEY @ 1531m: 0.00°

SILTSTONE:med gry-dk gry,tr lt gry,
grysh blk,aren,tr arg,com w/disse pyr,
pred sft-mod hd,tr frm,sbbiky-blky

SANDSTONE:trnsi,clr,frstd,tr pl yel,
pred med-crs grs,mnr f grs,mod wl srt,
pred sbrnd,tr sbang-sbrnd,wk sil cmt,
no vis mtx,com disse pyr,tr carb spks,
rr mic,lse & cin grs,hd-v hd,
fr inf por,fr-gd vis por,no fluor.

SURVEY @ 1559m: 0.00°

WOB 3-8 klbs
RPM 93-125
SPP 1500-1750 psi
FLOW 550-615 gpm

MW 1.08
FV 52
PV 16
YP 26
Gel 7/10/12
WL 6.2

pH 8.7
CK 1/
Sol 8
Cl 21

WOB 3-7 klbs
RPM 87-105
SPP 1575-1750 psi
FLOW 505-605 gpm

WOB 3-7 klbs
RPM 98-105
SPP 1655-1820 psi
FLOW 568-615 gpm

1570
1580
1590
1600
1610
1620



SANDSTONE:trnsi-4msp,clr,frstd,pred med-f grs,mnr crs grs,mod wl srt, sbang-sbrnd,wk sil cmt,no vis mtx,tr pyr, com w/disse carb spks,rr mic,ls& cin grs, hd-v hd,fr-gd inf & vis por,no fluor.

SURVEY @ 1587m: 0.00°

SILTSTONE:med gry-dk gry,dk olv gry, grysh blk,aren,tr pyr,com carb spks,sft frm, mod hd i/p,pred sbbiky,sbfiss-fiss i/p, amorph.

SANDSTONE:trnsi,clr,frstd,tr pl yel,med-crs grs,f grs i/p,moe wl srt,sbang-sbrnd, pred sbrnd,wk sil cmt,no vis mtx,tr pyr, com carb spks,lse & cin,hd-v hd,fr inf por, fr-gd vis por,no fluor.

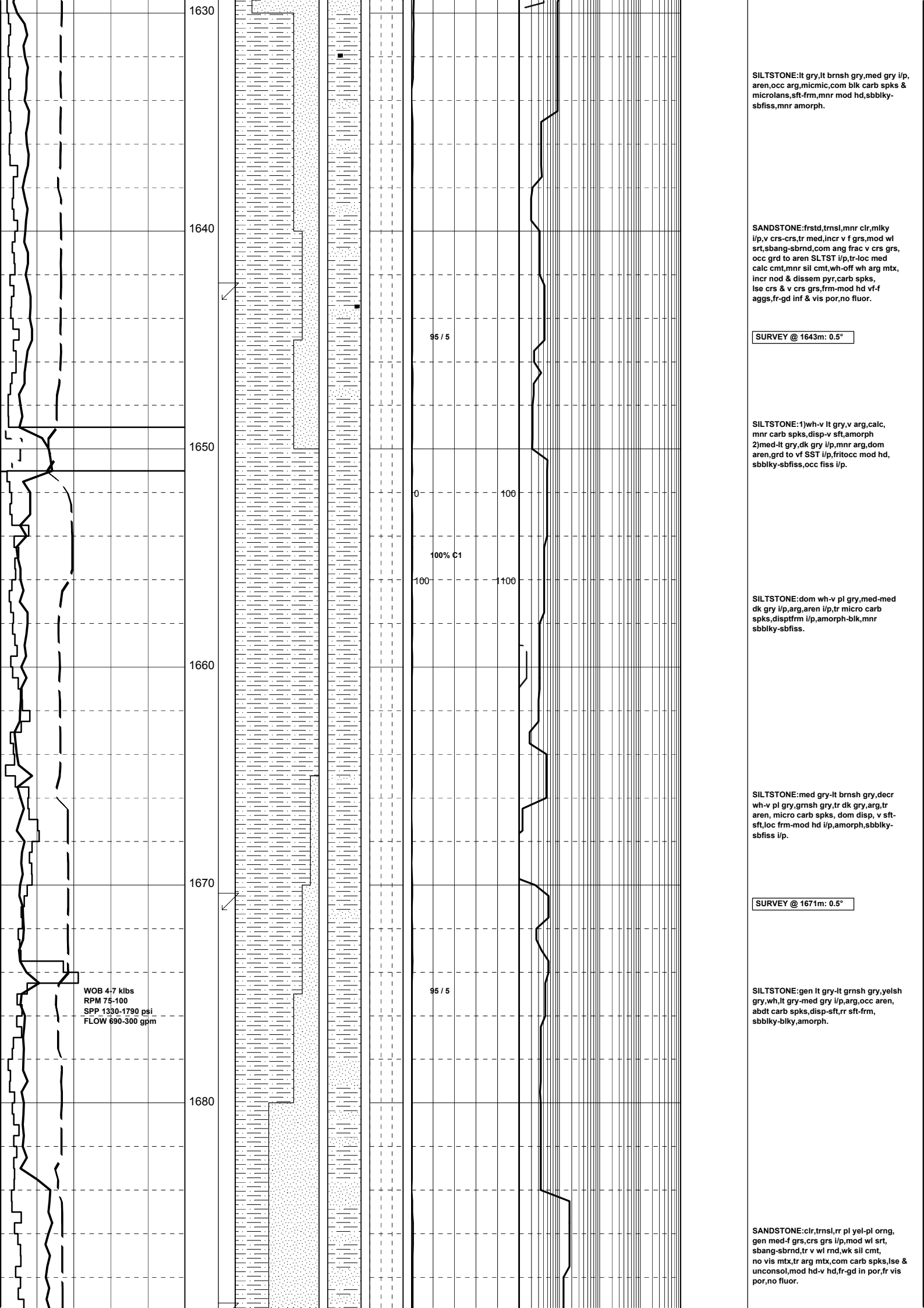
CARBIDE LAG CHECK @ 1600m
THEOR. STKS: 4846
ACTUAL STKS: 4950
HOLE IS 2.1% O.G

SILTSTONE:pred med gry-dk gry,grysh blk, mnr lt gry,aren,mnr arg,com carb spks, tr pyr,pred frm-mod hd,loc sft disp, sbbiky-sbfiss.

SURVEY @ 1615m: 0.00°

SANDSTONE:trnsi,clr,rr pl yelsh wh,pred med grs,f grs i/p,mod wl srt,sbrnd,occ sbang-sbrnd,wk sil cmt,no vis mtx,tr pyr, mnr carb spks,lse & cin grs,mod hd-v hd, fr inf por,fr-gd vis por,no fluor.

94 / 6



SILTSTONE:lt gry,lt brnsh gry,med gry i/p, aren,occ arg,micmic,com blk carb spks & microlans,sft frm,mnr mod hd,sbbly-sbfiss,mnr amorph.

SANDSTONE:frstd,trnsi,mnr clr,miky i/p,v crs-crs,tr med,incr v f grs,mod wl srt,sbang-sbrnd,com ang frac v crs grs, occ grd to aren SLTST i/p,tr-loc med calc cmt,mnr sil cmt,wh-off wh arg mtx, incr nod & dissem pyr,carb spks, lse crs & v crs grs,frm-mod hd vf-f aggs,fr-gd inf & vis por,no fluor.

SURVEY @ 1643m: 0.5°

SILTSTONE:1)wh-v lt gry,v arg,calc, mnr carb spks,disp-v sft,amorph 2)med-lt gry,dk gry i/p,mnr arg,dom aren,grd to vf SST i/p,fritocc mod hd, sbbly-sbfiss,occ fiss i/p.

SILTSTONE:dom wh-v pl gry,med-med dk gry i/p,arg,aren i/p,tr micro carb spks,disptfrm i/p,amorph-blk,mnr sbbly-sbfiss.

SILTSTONE:med gry-lt brnsh gry,decr wh-v pl gry,gmsh gry,tr dk gry,arg,tr aren, micro carb spks, dom disp, v sft-sft,loc frm-mod hd i/p,amorph,sbbly-sbfiss i/p.

SURVEY @ 1671m: 0.5°

SILTSTONE:gen lt gry-lt grnsh gry,yelsh gry,wh,lt gry-med gry i/p,arg,occ aren, abdt carb spks,disp-sft,rr sft-frm, sbbly-blky,amorph.

SANDSTONE:clr,trnsi,rr pl yel-pl org, gen med-f grs,crs grs i/p,mod wl srt, sbang-sbrnd,tr v wl rnd,wk sil cmt, no vis mtx,tr arg mtx,com carb spks,lse & unconsol,mod hd-v hd,fr-gd in por,fr vis por,no fluor.

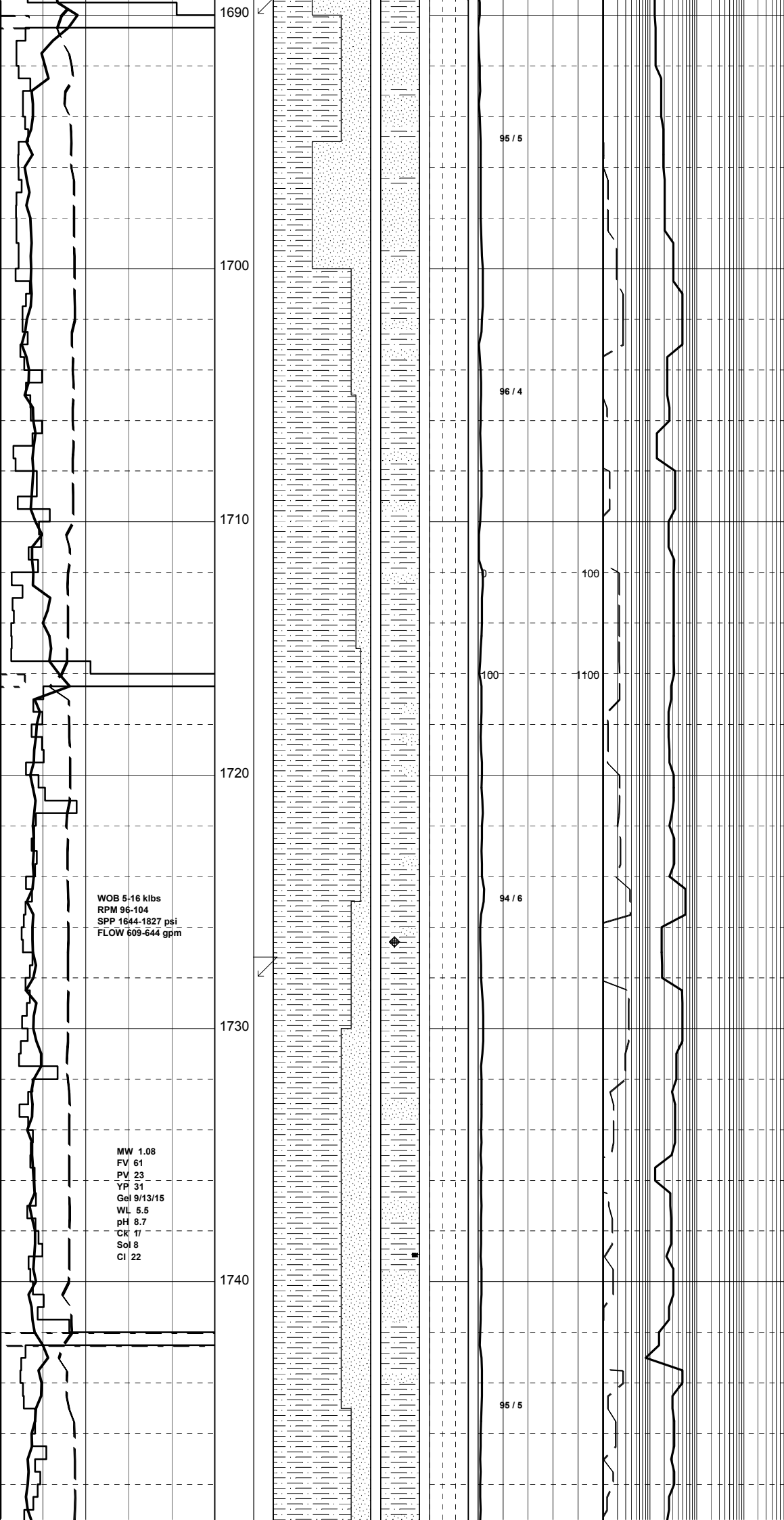
WOB 4.7 klbs
RPM 75-100
SPP 1330-1790 psi
FLOW 690-300 gpm

95 / 5

100% C1

95 / 5

1630
1640
1650
1660
1670
1680



SANDSTONE:frstd,trnsi-clr,col,occ mlky,tr v pl gry,med-v crs grs,mod srt,pred sbang, com ang,v crs frac grs,sbrnd i/p,wk calc & sil cmt,tr off wh-pl gry arg mtx,mic flks,lse & pred clin,pr-loc fr por,no fluor.

SILTSTONE:lt gry-grysh blk,lt grmsh gry, col,arg,com carb spks,gen v sft-disp, rr frm,sbblky-sbfiss,amorph.

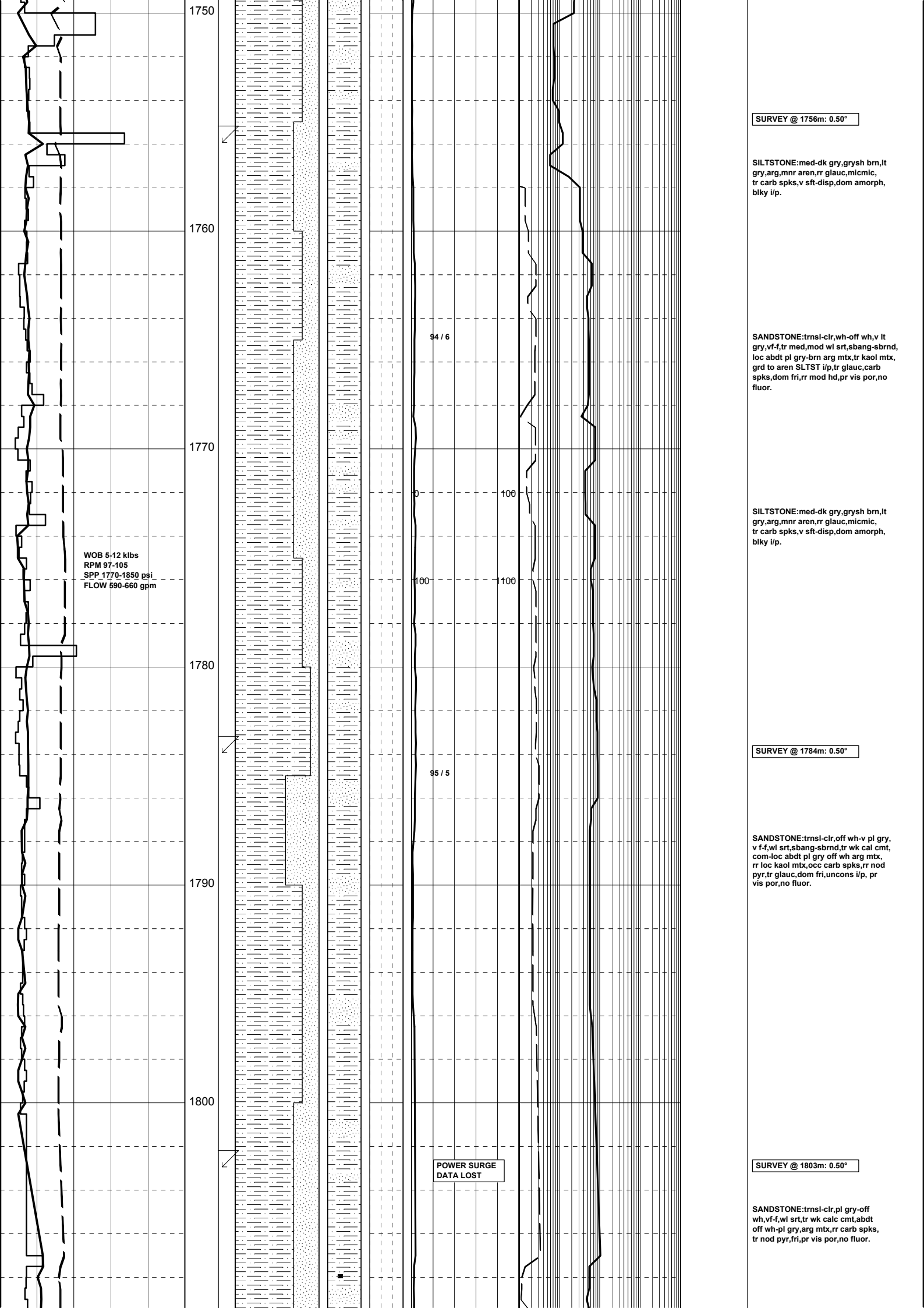
SANDSTONE:cir,trnsi,lt gry-col,pred med-f grs,rr crs grs,pred sbang,mnr sbang-sbrnd,wk sil cmt,no vis mtx,tr pyr,com carb spks,lse grs,hd-v hd,fr inf por, pr-fr vis por,no fluor.

SILTSTONE:med-dk gry,lt gry,aren, arg l/p,occ carb spks & flks,mnr dissem pyr,sft-disp,blky-amorph.

SANDSTONE:trnsi-clr,wh-lt gry, vf-f,wl srt,mnr wk calc cmt,abdt kaol mtx,rr lt brn liths,tr carb mat,pyr cmt,fri,occ mod hd,pr vis por,no fluor.

WOB 5-16 klbs
RPM 96-104
SPP 1644-1827 psi
FLOW 609-644 gpm

MW 1.08
FV 61
PV 23
YP 31
Gel 9/13/15
WL 5.5
pH 8.7
CK 17
Sol 8
Cl 22



SURVEY @ 1756m: 0.50°

SILTSTONE: med-dk gry, grysh brn, lt gry, arg, mnr aren, rr glauc, micmic, tr carb spks, v sft-disp, dom amorph, blkly i/p.

SANDSTONE: trnsi-clr, wh-off wh, v lt gry, vf-f, tr med, mod wl srt, sbang-sbrnd, loc abdt pl gry-brn arg mtx, tr kaol mtx, grd to aren SLTST i/p, tr glauc, carb spks, dom fri, rr mod hd, pr vis por, no fluor.

SILTSTONE: med-dk gry, grysh brn, lt gry, arg, mnr aren, rr glauc, micmic, tr carb spks, v sft-disp, dom amorph, blkly i/p.

SURVEY @ 1784m: 0.50°

SANDSTONE: trnsi-clr, off wh-v pl gry, v f-f, wl srt, sbang-sbrnd, tr wk calc cmt, com-loc abdt pl gry off wh arg mtx, rr loc kaol mtx, occ carb spks, rr nod pyr, tr glauc, dom fri, unconcs i/p, pr vis por, no fluor.

SURVEY @ 1803m: 0.50°

SANDSTONE: trnsi-clr, pl gry-off wh, vf-f, wl srt, tr wk calc cmt, abdt off wh-pl gry, arg mtx, rr carb spks, tr nod pyr, fri, pr vis por, no fluor.

WOB 5-12 klbs
RPM 97-105
SPP 1770-1850 psi
FLOW 590-660 gpm

94 / 6

0

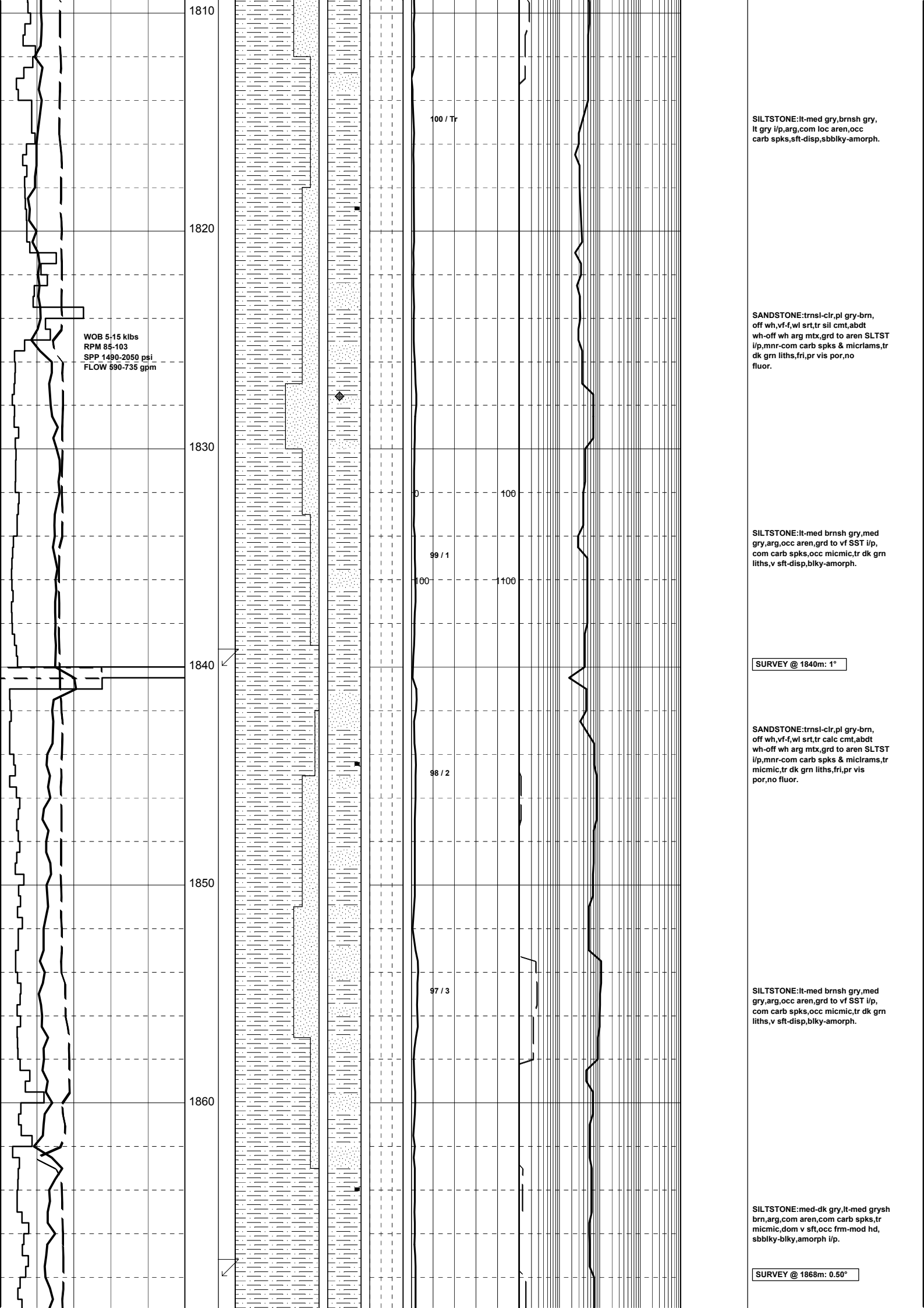
100

100

100

95 / 5

POWER SURGE
DATA LOST



SILTSTONE:lt-med gry,brnsh gry,
lt gry i/p,arg,com loc aren,occ
carb spks,sft-disp,sbbiky-amorph.

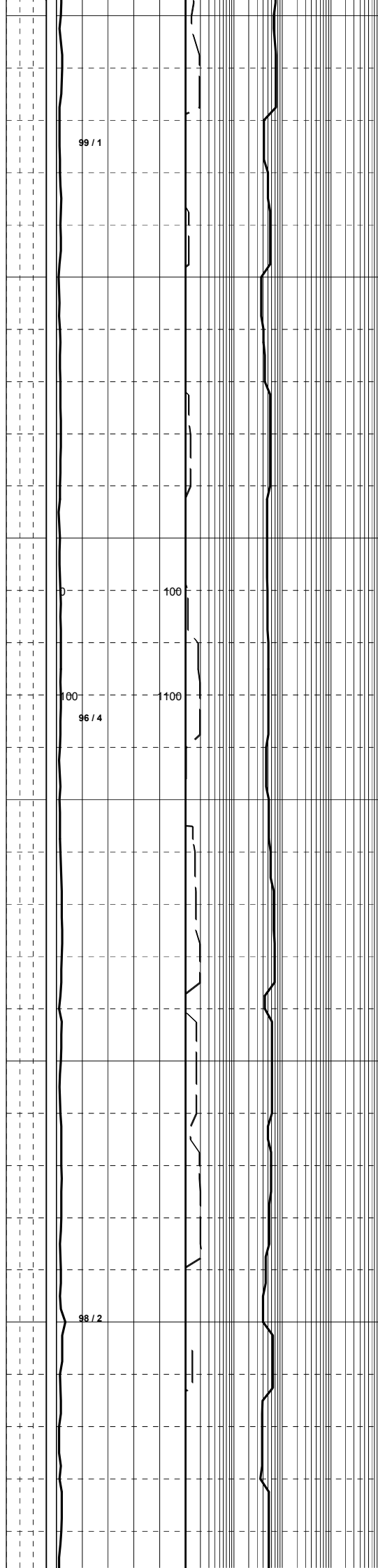
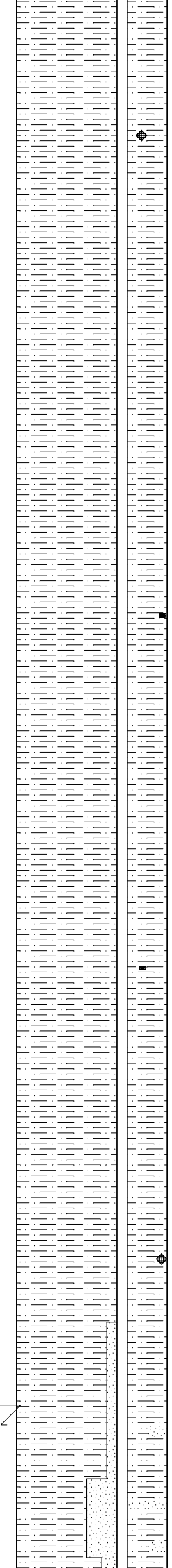
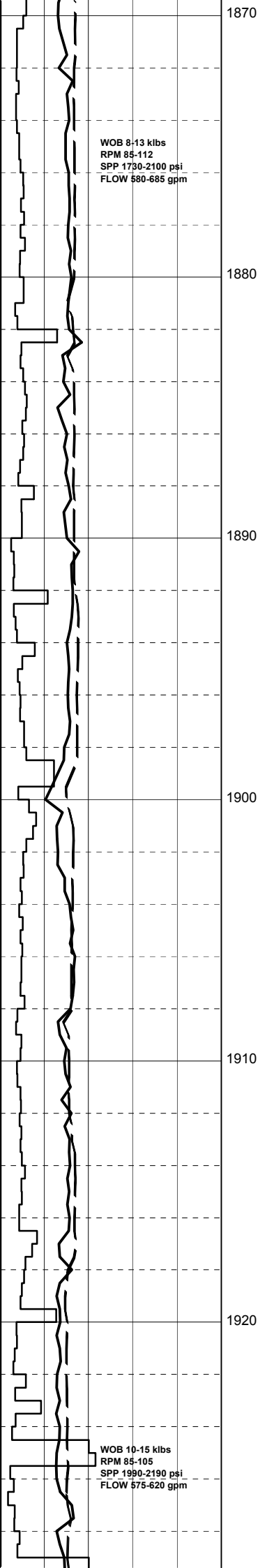
SANDSTONE:trnsi-clr,pl gry-brn,
off wh,vf-f,wl srt,tr sil cmt,abdt
wh-off wh arg mtx,grd to aren SLTST
i/p,mnr-com carb spks & miclrams,tr
dk gm liths,fri,pr vis por,no
fluor.

SILTSTONE:lt-med brnsh gry,med
gry,arg,occ aren,grd to vf SST i/p,
com carb spks,occ micmic,tr dk gm
liths,v sft-disp,blky-amorph.

SANDSTONE:trnsi-clr,pl gry-brn,
off wh,vf-f,wl srt,tr calc cmt,abdt
wh-off wh arg mtx,grd to aren SLTST
i/p,mnr-com carb spks & miclrams,tr
micmic,tr dk gm liths,fri,pr vis
por,no fluor.

SILTSTONE:lt-med brnsh gry,med
gry,arg,occ aren,grd to vf SST i/p,
com carb spks,occ micmic,tr dk gm
liths,v sft-disp,blky-amorph.

SILTSTONE:med-dk gry,lt-med grysh
brn,arg,com aren,com carb spks,tr
micmic,dom v sft,occ frm-mod hd,
sbbiky-blky,amorph i/p.



SILTSTONE:dom med-dk gry,occ lt-med gry,arg,tr aren,occ carb spks,dissem pyr,tr calc mat,sft-frm,rr mod hd,sbblky-sbfiss.

SILTSTONE:med-dk gry,brnsh gry,arg,tr aren,occ carb spks,dissem pyr,tr calc mat,sft-frm,rr mod hd sbblky-blky,sbfiss i/p.

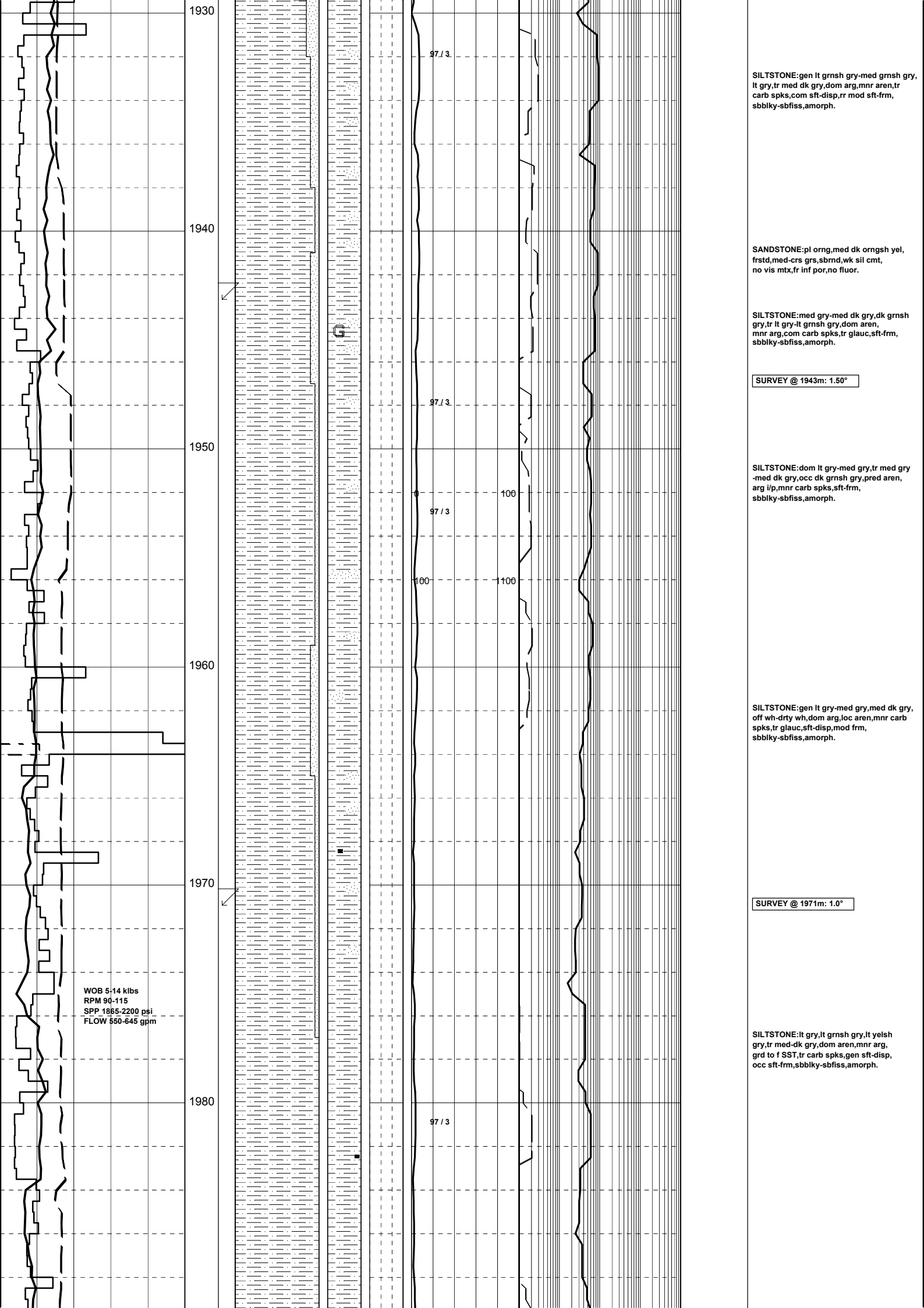
SILTSTONE:dom lt gry-med gry,med dk gry,dom aren,mnr arg,grd to SST i/p,comm dissem w/pyr,sft-rm,disp i/p,sbblky-sbfiss.

SILTSTONE:dom lt gry-med gry,tr med dk gry,pred aren,mnr arg,grd to SST i/p,comm dissem w/carb spks,dom sft-frm,tr disp,sbblky-sbfiss.

SILTSTONE:brnsh gry,med gry,mnr lt gry,arg,com aren,occ carb spks & mnr lams,sft-mod hd i/p,disp i/p,sbblky-sbfiss.

TOTCO SURVEY @ 1924.m: 0.50°

SANDSTONE:cir,trnsl,pl grn,pl gry,f-med,mod wl srt,sbang,wk calc & sil cmt,lt grnsh gry-ft blush gry arg mtx,lse & cin,fr-pr inf por,no fluor.



1930

1940

1950

1960

1970

1980

97 / 3

97 / 3

97 / 3

100

100

97 / 3

SILTSTONE:gen lt grnsh gry-med grnsh gry, lt gry,tr med dk gry,dom arg,mnr aren,tr carb spks,com sft-disp,rr mod sft-frm, sbbiky-sbfiss,amorph.

SANDSTONE:pl orng,med dk orngsh yel, frstd,med-crs grs,sbrnd,wk sil cmt, no vis mtx,fr inf por,no fluor.

SILTSTONE:med gry-med dk gry,dk grnsh gry,tr lt gry-lt grnsh gry,dom aren, mnr arg,com carb spks,tr glauc,sft-frm, sbbiky-sbfiss,amorph.

SURVEY @ 1943m: 1.50°

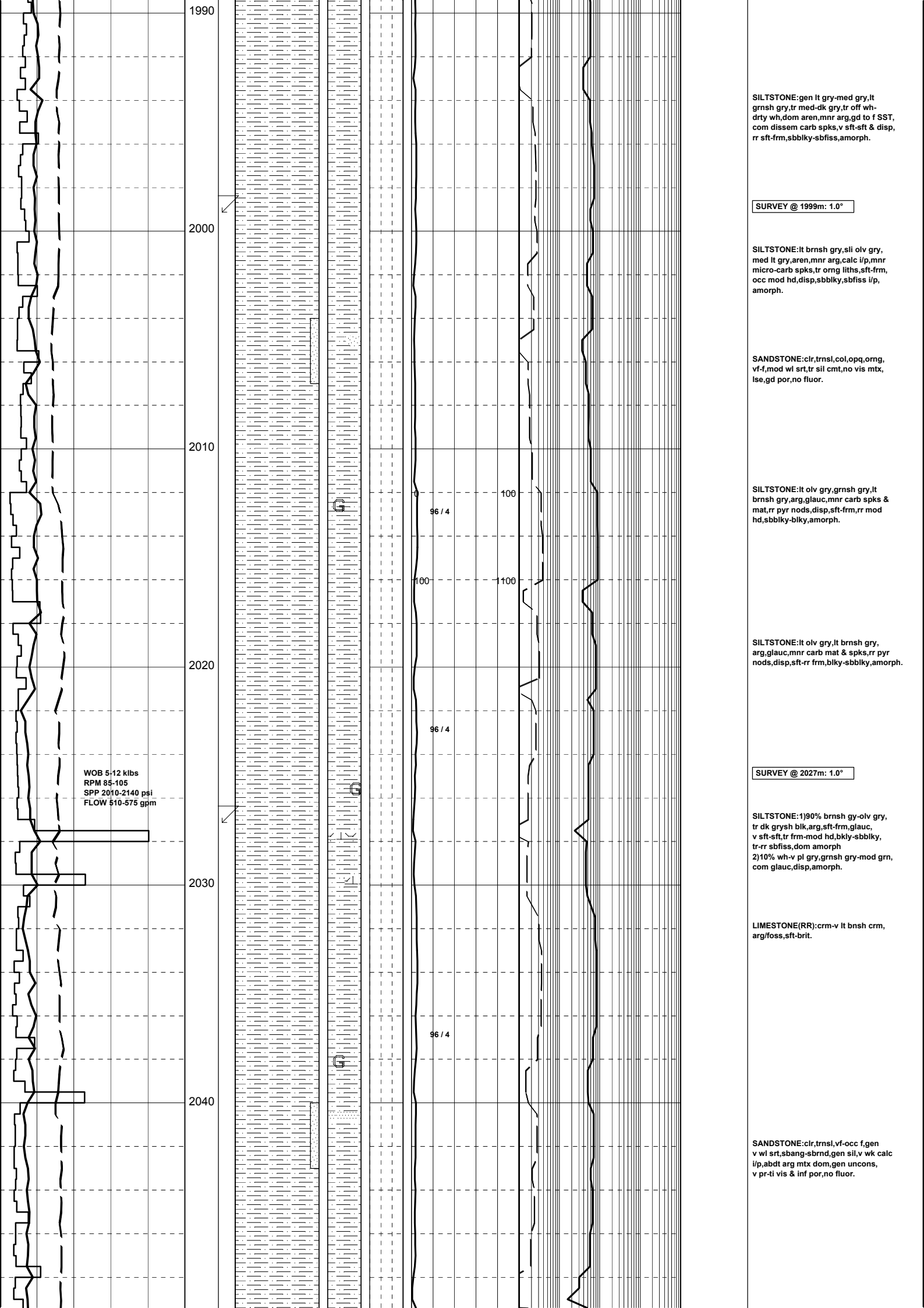
SILTSTONE:dom lt gry-med gry,tr med gry -med dk gry,occ dk grnsh gry,pred aren, arg ip,mnr carb spks,sft-frm, sbbiky-sbfiss,amorph.

SILTSTONE:gen lt gry-med gry,med dk gry, off wh-drtly wh,dom arg,loc aren,mnr carb spks,tr glauc,sft-disp,mod frm, sbbiky-sbfiss,amorph.

SURVEY @ 1971m: 1.0°

SILTSTONE:lt gry,lt grnsh gry,lt yelsh gry,tr med-dk gry,dom aren,mnr arg, grd to f SST,tr carb spks,gen sft-disp, occ sft-frm,sbbiky-sbfiss,amorph.

WOB 5-14 klbs
RPM 90-115
SPP 1865-2200 psi
FLOW 550-645 gpm



SILTSTONE: gen lt gry-med gry, lt grnsh gry, tr med-dk gry, tr off wh-dry wh, dom aren, mnr arg, gd to f SST, com dissem carb spks, v sft-sft & disp, rr sft-frm, sbbkly-sbfiss, amorph.

SURVEY @ 1999m: 1.0°

SILTSTONE: lt brnsh gry, sli olv gry, med lt gry, aren, mnr arg, calc i/p, mnr micro-carb spks, tr org liths, sft-frm, occ mod hd, disp, sbbkly, sbfiss i/p, amorph.

SANDSTONE: clr, trnsi, col, opq, org, vf-f, mod wl srt, tr sil cmt, no vis mtx, lse, gd por, no fluor.

SILTSTONE: lt olv gry, grnsh gry, lt brnsh gry, arg, glauc, mnr carb spks & mat, rr pyr nods, disp, sft-frm, rr mod hd, sbbkly-blky, amorph.

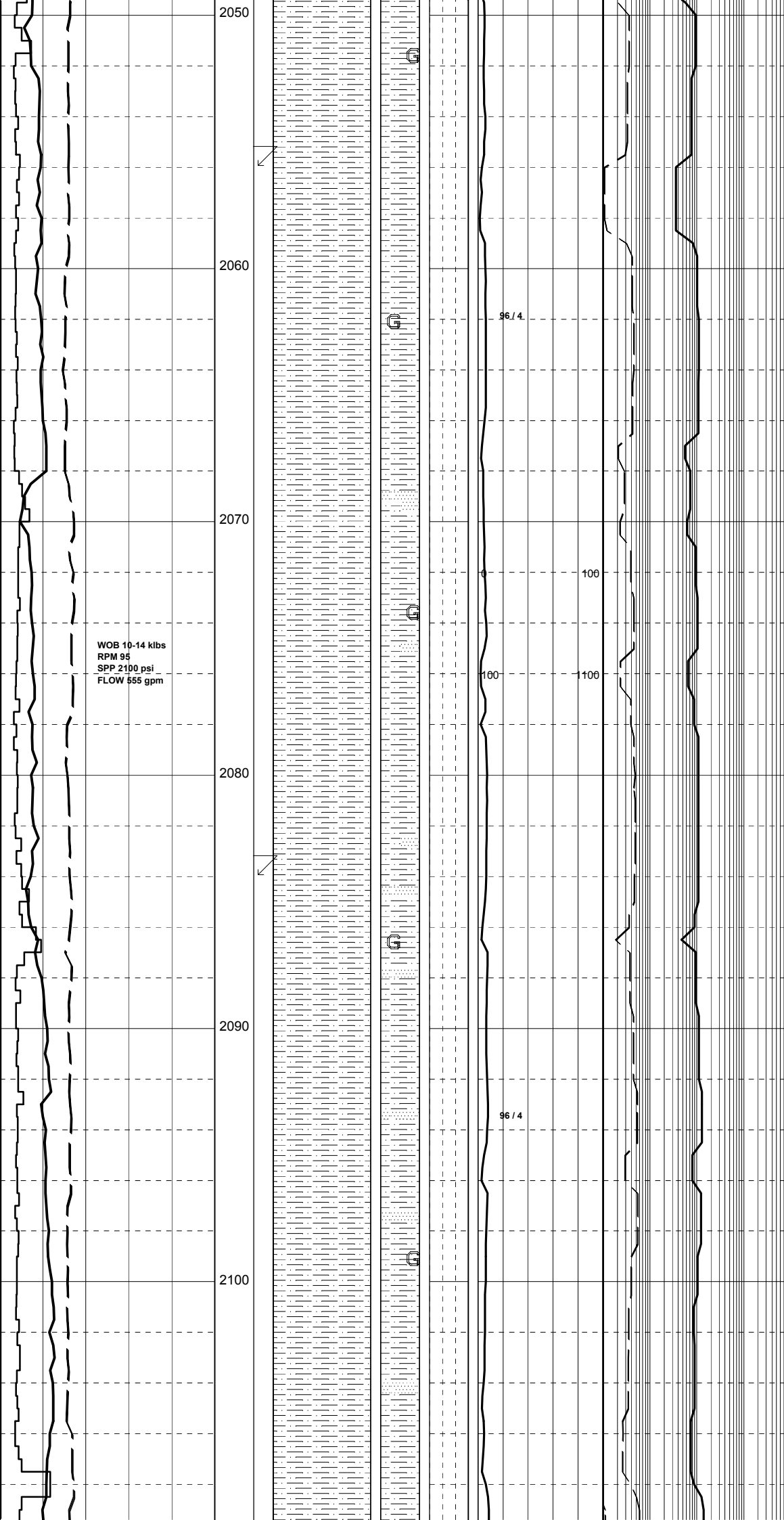
SILTSTONE: lt olv gry, lt brnsh gry, arg, glauc, mnr carb mat & spks, rr pyr nods, disp, sft-rr frm, blky-sbbkly, amorph.

SURVEY @ 2027m: 1.0°

SILTSTONE: 1) 90% brnsh gry-olv gry, tr dk grysh blk, arg, sft-frm, glauc, v sft-sft, tr frm-mod hd, bkly-sbbkly, tr-rr sbfiss, dom amorph
 2) 10% wh-v pl gry, grnsh gry-mod gm, com glauc, disp, amorph.

LIMESTONE(RR): crm-v lt brnsh crm, arg/foss, sft-brit.

SANDSTONE: clr, trnsi, vf-occ f, gen v wl srt, sbang-sbrnd, gen sil, v wk calc i/p, abdt arg mtx dom, gen uncons, v pr-ti vis & inf por, no fluor.



SURVEY @ 2056m: 1.0°

SILTSTONE: pred gry-bnsh gry, gen v arg
 grd to CLYST, occ vf aren, loc com
 glauc i/p, tr carb mat i/p, gen sft frm
 i/p, sli-mod calc i/p, sbfiss-sbblky.

SILTSTONE: pred gry-bnsh gry, gen v arg
 grd to CLYST, occ vf aren, loc com
 glauc i/p, tr carb mat i/p, gen sft frm
 i/p, mod calc incr w/ depth, sbfiss-
 sbblky.

SURVEY @ 2084m: 1.0°

SANDSTONE(TR): clr/trnsl grs, lt gry,
 vf, v w/ srt, sbang-sbrnd, gen sil w/ v wk
 calc cmt i/p, abdt arg mtx dom, gen
 lse/uncons, rr mod hd & calc, v pr-ti
 vis por, no fluor.

WOB 10-14 klbs
 RPM 95
 SPP 2100 psi
 FLOW 555 gpm

96 / 4

100

100

100

96 / 4

2050

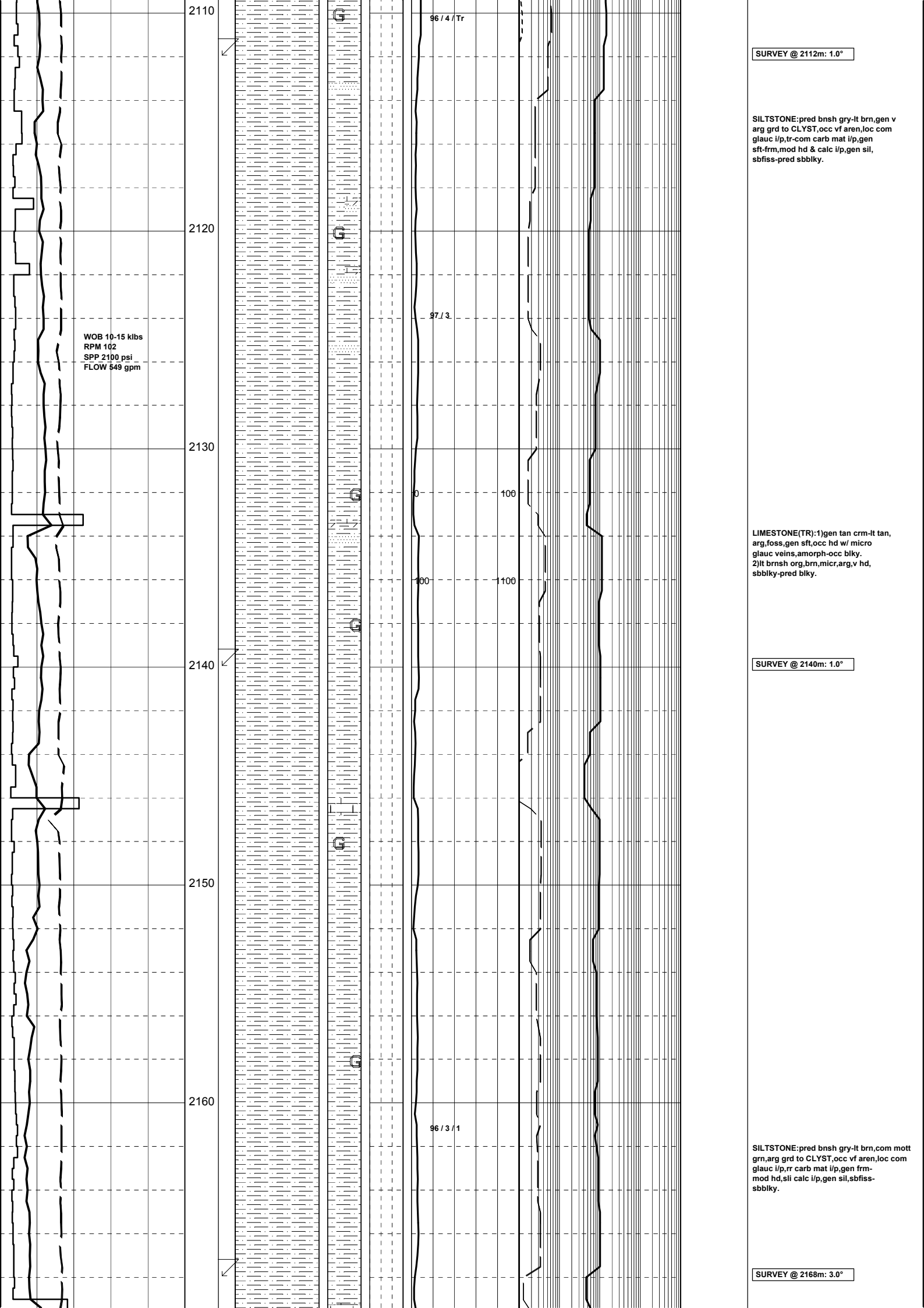
2060

2070

2080

2090

2100



SURVEY @ 2112m: 1.0°

SILTSTONE: pred bnsh gry-lt brn, gen v arg grd to CLYST, occ vf aren, loc com glauc i/p, tr-com carb mat i/p, gen sft frm, mod hd & calc i/p, gen sil, sbfiss-pred sbbkly.

LIMESTONE (TR): 1) gen tan crm-lt tan, arg, foss, gen sft, occ hd w/ micro glauc veins, amorph-occ blkly. 2) lt brnsh org, brn, micr, arg, v hd, sbbkly-pred blkly.

SURVEY @ 2140m: 1.0°

SILTSTONE: pred bnsh gry-lt brn, com mott grn, arg grd to CLYST, occ vf aren, loc com glauc i/p, rr carb mat i/p, gen frm-mod hd, sil calc i/p, gen sil, sbfiss-sbbkly.

SURVEY @ 2168m: 3.0°

WOB 10-15 klbs
RPM 102
SPP 2100 psi
FLOW 549 gpm

96 / 4 / Tr

97 / 3

96 / 3 / 1

2110

2120

2130

2140

2150

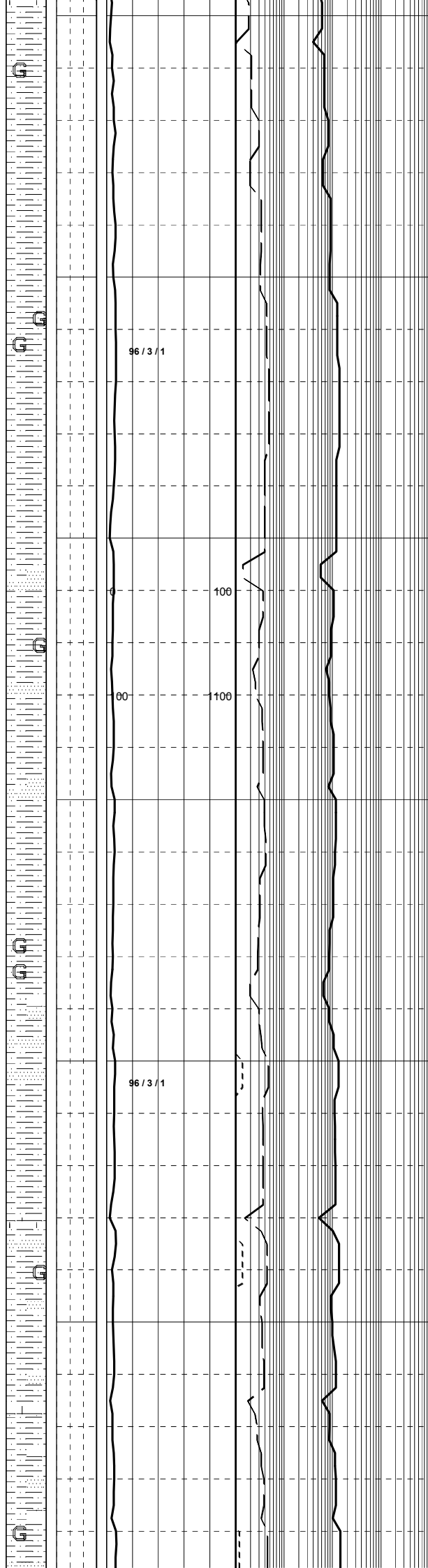
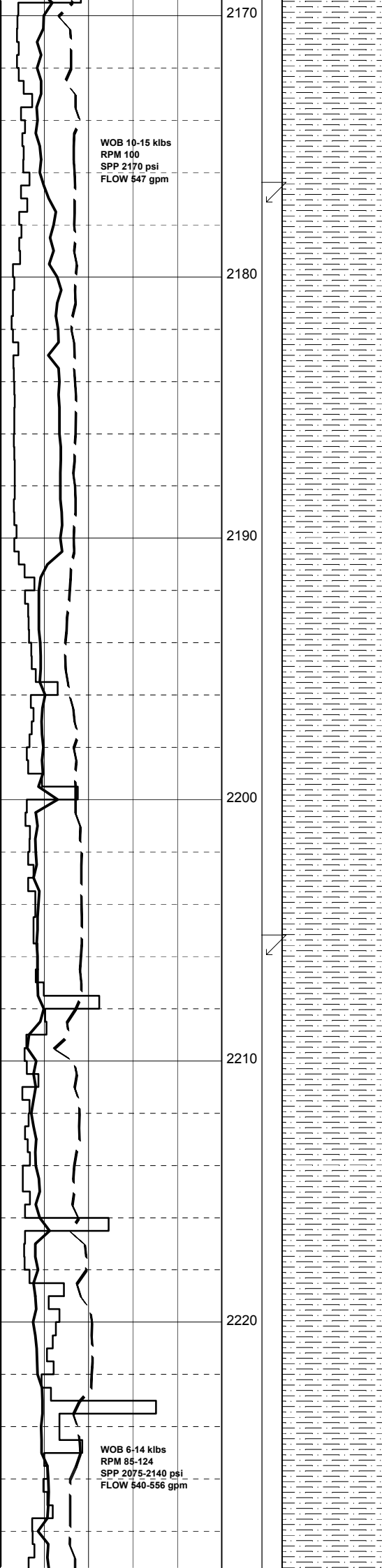
2160

0

100

100

100



SURVEY @ 2177m: 2.5°

SILTSTONE:pred bnsh gry-lt brn,com mott grn,arg,occ vf aren,loc com glauc i/p, gen frm,gen sil w/ hd & sil i/p,mnr tr calc i/p,pred sbfiss-sbbiky,occ blk.

SANDSTONE(TR):off wh-v lt gry,vf, w/ srt,sbang-sbrmd,off wh arg mtx,wk sil cmt,frt,v pr-ti vis por,no fluor.

SURVEY @ 2206m: 3.5°

SILTSTONE:pred bnsh gry-lt brn, com mott grn,aren,occ arg,loc com glauc i/p,gen frm,gen sil w/ hd & sil i/p,mnr-tr calc i/p,pred sbfiss-sbbiky,occ blk.

