

Colin Higgins & Associates



Scale 1:500 Metric

Well Name: Loy Yang 2
Location: GIPPSLAND
Licence Number: PEP166
Spud Date: 06/03/2006
Surface Coordinates: Lat 38 Deg 15'07"S
Long 146 Deg 33'37"E

Region: VICTORIA
Drilling Completed:

Bottom Hole
Coordinates:

Ground Elevation (m): 104m K.B. Elevation (m): 107.65

Logged Interval (m): 220 To: Total Depth (m):

Formation: STREZLECKI

Type of Drilling Fluid: KCI Polymer

Printed by MUD.LOG from WellSight Systems Inc. 1-800-447-1534 www.wellsight.com

OPERATOR

Company: LAKES OIL NL
Address: Level 11, 500 Collins St, Melbourne, 3000

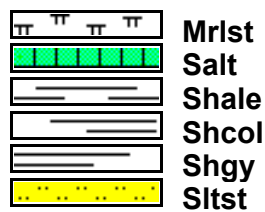
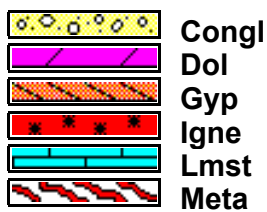
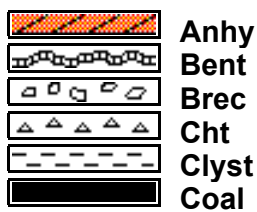
GEOLOGIST

Name: DAVE HORNER
Company: ECL
Address:

CORE

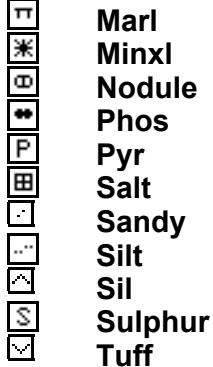
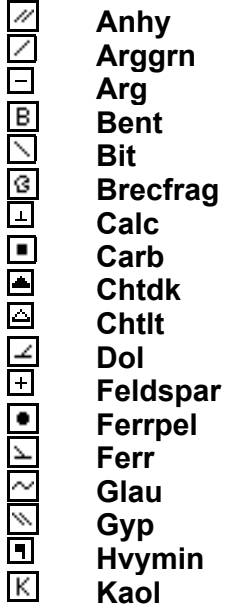
Contractor:
Core #: 2
Formation:
Core Interval: From: 450 Cut: 8.5
To: 458.5 Recovered: 82.4
Bit type:
Size:
Coring Time: 3hrs

ROCK TYPES

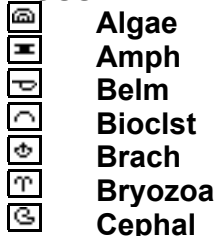


ACCESSORIES

MINERAL



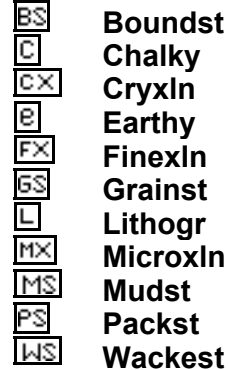
FOSSIL



STRINGER

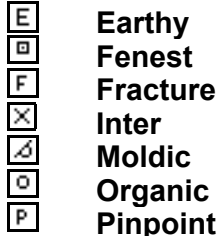


TEXTURE

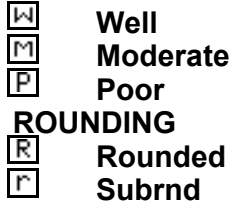


OTHER SYMBOLS

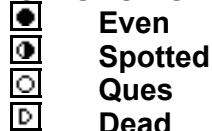
POROSITY TYPE



SORTING



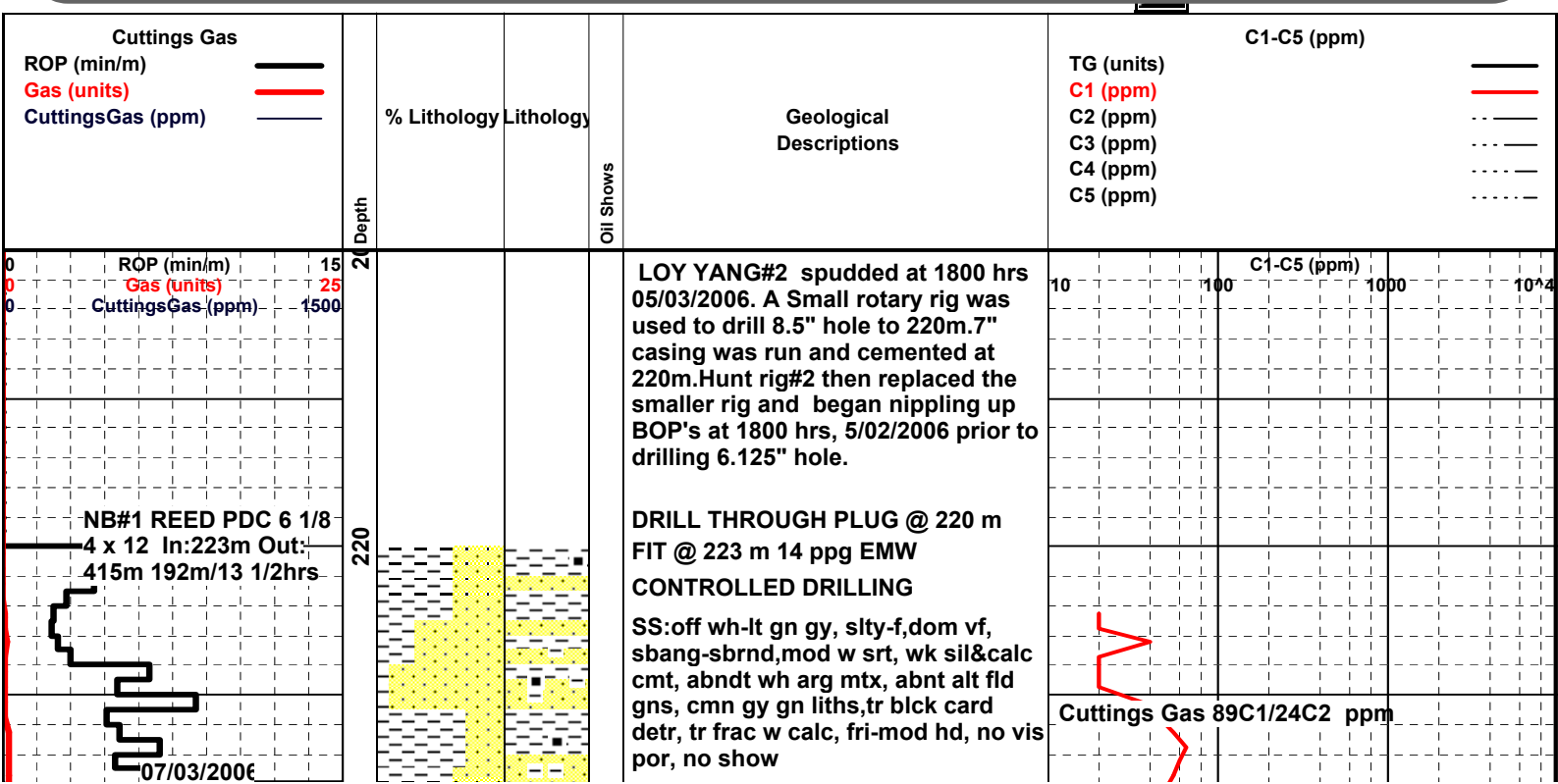
OIL SHOWS

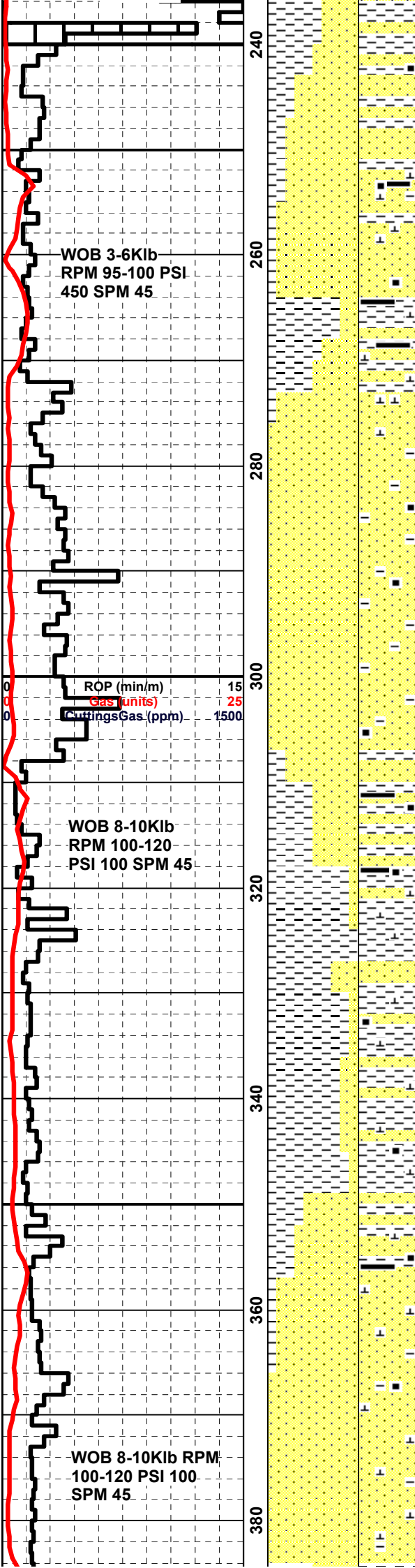


INTERVALS



EVENTS





CLYST:off wh-medgn gy-med bn gy, oft v slty-grds-sltst, of vf aren w alt fld gns, gds-vf ss, sl calc when aren, sl carb ip, tr blk cl detr, tr clac lined frac, frm, non fis-sl subfiss

SS:off wh-lt gn gy, slty-f,dom vf, sbang-sbrnd,mod w srt, wk sil&calc cmt, abndt wh arg mtx, abnt alt fld gns, cmn gy gn liths,tr blk card detr, tr frac w calc, fri-mod hd, no vis por, no show

CLYST:off wh-medgn gy-med bn gy, oft v slty-grds-sltst, of vf aren w alt fld gns, gds-vf ss, sl calc when aren, sl carb ip, tr blk cl detr, tr clac lined frac, frm, non fis-sl subfiss

SS:off wh-med gn gy, vf, sbang-sbrnd, mod w srt, mod sil & wk calc cmt, abnt wh-med gn gy arg mtx-mtx supptd, abndt alt fld gns, cmn gy gn liths, tr qtz gns, rr or bn & blk liths, tr blk carb detr, fri-mod hd, no vis por, no show

MW 8.4, FV: 50, PV/YP: 10/13, Gel: 3/5/6, WL: 4.0, FC: 1.0, Sol: 0.5, pH: 9.1, CI: 7000

CLYST:lt-dk gy-med gn gy-med bn gy, oft v slty, oft vf aren w/ alt feld gns, grds-ss, sl-occ mod carb, tr blk cl detr, com calc vns, frm-mod hd, sl sbfiss

SS :off wh-med grgy, vf, sbang-sbrnd, mod srt, mod sil & calc cmt, abnt wh-med gn gy arg mtx, mtxsup abnt alt feld, comn gy gn liths, tr qtz gns, rare or bn & blk liths, tr blk carb detr, tr-cmn calc vns, or-rd min, mod hd, no vis por, no fluo

CLYST:lt-dk gy-med gn gy-med bn gy, oft v slty, oft vf aren w/ alt feld gns, grds-ss, sl-occ mod carb, tr blk cl detr, com valc vns, frm-mod hd, sl sbfiss

SS :off wh-med gy, vf-f, dom f, sbang-sbrnd, mod srt, mod sil & mod-strng calc cmt, tr strng dol cmt, abnt wh-med gn gy arg mtx, abnt deld gns, comn gy gn liths, tr qtz gns, rr or bn & blk liths, tr-cmn blk carb detr, tr-cmn calc vns, or-rd min, mod hd, no vis por, no fluo

Cuttings Gas 655 ppm C1

Cuttings Gas 773 ppm C1

Cuttings Gas 700 ppm C1

Cuttings Gas 250 ppm C1

Cuttings Gas 390 ppm C1

Cuttings Gas 490 ppm C1

Cuttings Gas 1053 ppm C1

Cuttings Gas 750 ppm C1

Cuttings Gas 200 ppm C1

Cuttings Gas 330 ppm C1

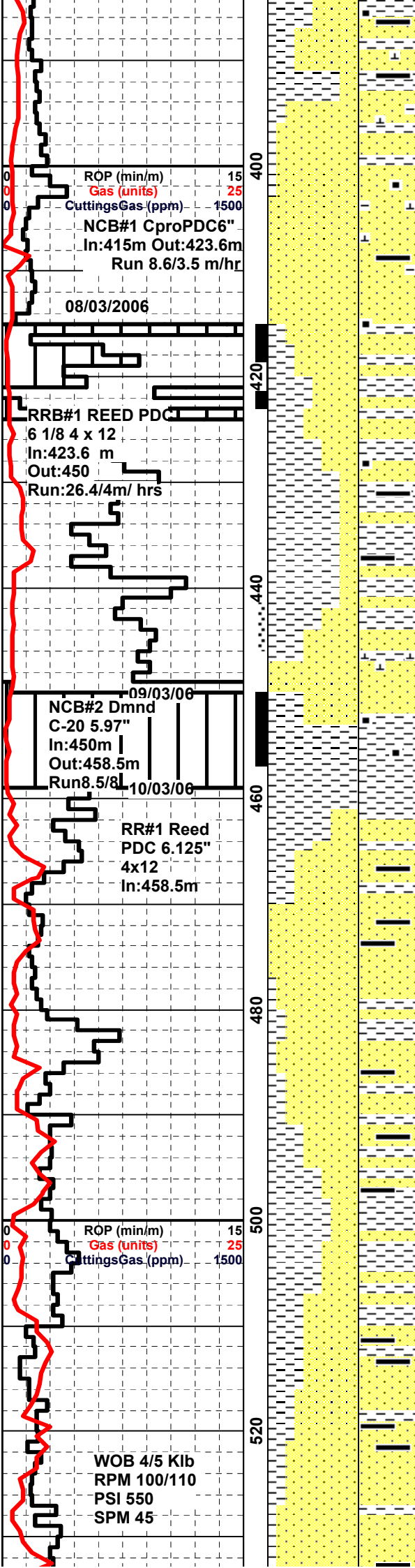
Cuttings Gas 400 ppm C1

Cuttings Gas 140 ppm C1

Cuttings Gas 1220 ppm C1

Cuttings Gas 700 ppm C1

Cuttings Gas 300 ppmC1



CLYST:lt-dk gy-med gn gy-med bn gy, oft v slty, oft vf aren w/ alt feld gns, grds-ss, sl-occ mod carb, tr blk cl detr, com valc vns, frm-mod hd, sl sbfiss

SS :med gy, grn gy, frm-hd, lthc,vf-f,sbang,pr srtd, mod-str calc cmt,abund gy arg mts, carb incl, no vis por, no fluo.

MW 8.5, FV: 56, PV/YP: 11/18, Gel: 5/7/9, WL: 6.8, FC: 1.0, Sol: 0.7, pH: 9.0, CI: 7000

Core # 1 415m-423.6m Cut 8.6m Rec 2m

CLYST:lt-dk gy-med gn gy-med bn gy, v slty- vf aren w/ alt feld gns, grds-ss, occ-cmn carb spks and lams, tr blk cl detr, frm-mod hd, sl sbfiss

DST#1:440.45-458.5m.IF 270 mins, FSI 130 mins,NGTS,NFTS. Rec 2.7 fresh water.
CALCITE(tr-10%):wh,sft-hd,mxln w/20% dll-bri ptchy med ylw flu,wk pl ylw ccut,thn rring.

Core # 2 450m-458.5m Cut 8.5m Rec 7m

CLYST:lt gy,med,med bn gy, slty i/p, occ-mod carb spks and lams, frm-mod hd, sl sbfiss.

SS: off wh-med grn gy, vf-f, dom f, sbang-sbrnd, mod sort, strg sil & wk calc cmt, abndt off wh-med grn gy arg mtx, abndt alt feld grs, cmn gy grn liths, tr qtz gr, tr orng brn & blk liths, tr blk carb det, tr calc vn, hd, n vis por, no oil fluo

MW 8.5, FV:44, PV/YP: 8/13, Gel: 4/5/6, WL:7.3, FC: 1.0, Sol: 0.8, pH: 9.5, CI: 6000

SS: off wh-med grn gy, vf-med, dom f, sbang-sbrd, mod srtd, strg sil & wk calc cmt, abndt off wh-med grn gy arg mtx, abndt alt feld grs, cmn gy grn liths, tr qtz gr, tr orng brn & blk liths, cmn blk carb det, tr calc vn, hd, n vis por, no oil fluor

CLYST:med-dk gy-med grn gy-med brn gy, oft v slty, vf aren w/alt feld gr i/p, sl-occ mod carb, tr blk coal det, tr calc vn, mod hd, subfiss

Cuttings Gas 890 ppm C1

C1-C5 (ppm)
Cuttings Gas 470 ppm C1

Cuttings Gas 1170 ppm C1

TRIP GAS 1400 ppm C1

Cuttings Gas 100 ppm C1
TRIP GAS 100 ppm C1

Cuttings Gas 703 ppm C1

Cuttings Gas 750 ppm C1

Cuttings Gas 650 ppm C1

C2
Cuttings Gas 304 C1/19 C2 ppm

TG 1.6 u 100 C1

Cuttings Gas 140 ppm C1

Cuttings Gas 235 ppm C1

Cuttings Gas 540 ppm C1

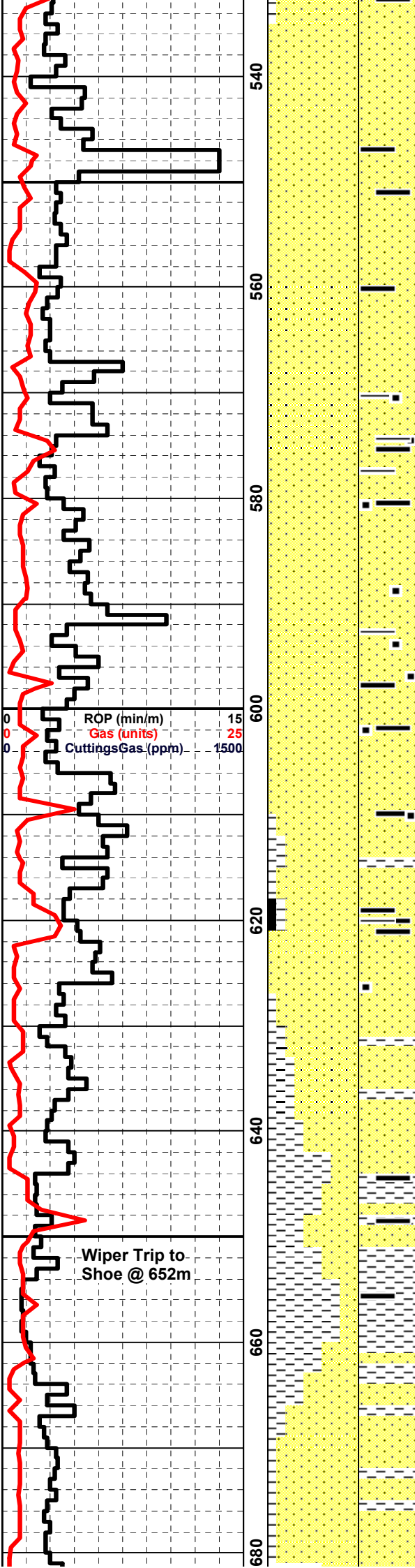
Cuttings Gas 530 ppm C1

C1-C5 (ppm)
Cuttings Gas 540 ppm C1

Cuttings Gas 540 ppm C1

Cuttings Gas 281 ppm C1

Cuttings Gas 281 ppm C1



SS: off h-med grn gy,vf-med,dom med,sbang-sbrnd,mod srted,str sil and wk calc cmt,abund off wh arg mtx, abund altr fldspr grns, cmn grn gy lths,cmn qtz grns,tr or brn and blk lths,cmn blk carb dtrts,tr calc vng,no vis por,no oil fluo.

SS: off h-med grn gy,vf-med,dom med,sbang-sbrnd,mod srted,str sil and wk calc cmt,abund off wh arg mtx, abund altr fldspr grns, cmn grn gy lths,cmn qtz grns,tr or brn and blk lths,cmn blk carb dtrts,tr calc vng,no vis por,no oil fluo.

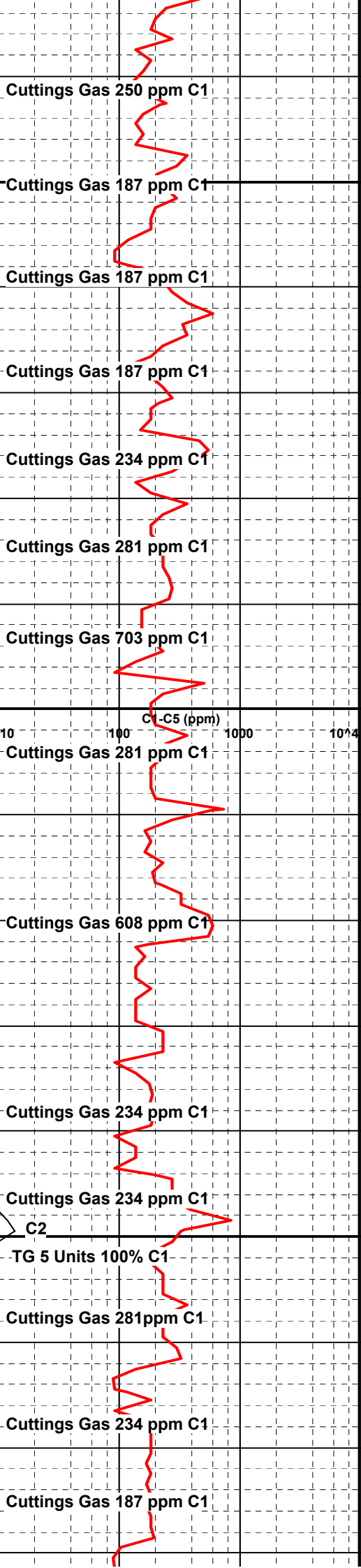
CARBIDE@615m 205 Units Hole 10% O'Guage

MW 8.55, FV:39, PV/YP: 6/11, Gel: 3/4/5, WL:7.4, FC: 1.0, Sol: 1.2, pH: 8.9, CI: 5000

CLYST:lt-dk gy-med gn gy-med bn gy, v slty w/ alt feld gns, , occ carb spks and lams, frm-mod hd, sl sbfiss,splntry i/p.

SS:off wh-med grn gy,vf-r med,dom fn,sbang-sbrnd,mod srted,str sil and wk calc cmt,abund off wh arg mtx,abund altr fldspr grns,cmn grn gy lths,cmn qtz grns,tr brn/blk lths,cmn cal vng,hd,no vis por.

FLU: (trace) Calc frac lining has patchy mod bri pl ylw flu,mod bri mlky wh ccut,thn ring.



Cuttings Gas 250 ppm C1

Cuttings Gas 187 ppm C1

Cuttings Gas 187 ppm C1

Cuttings Gas 187 ppm C1

Cuttings Gas 234 ppm C1

Cuttings Gas 281 ppm C1

Cuttings Gas 703 ppm C1

Cuttings Gas 281 ppm C1

Cuttings Gas 608 ppm C1

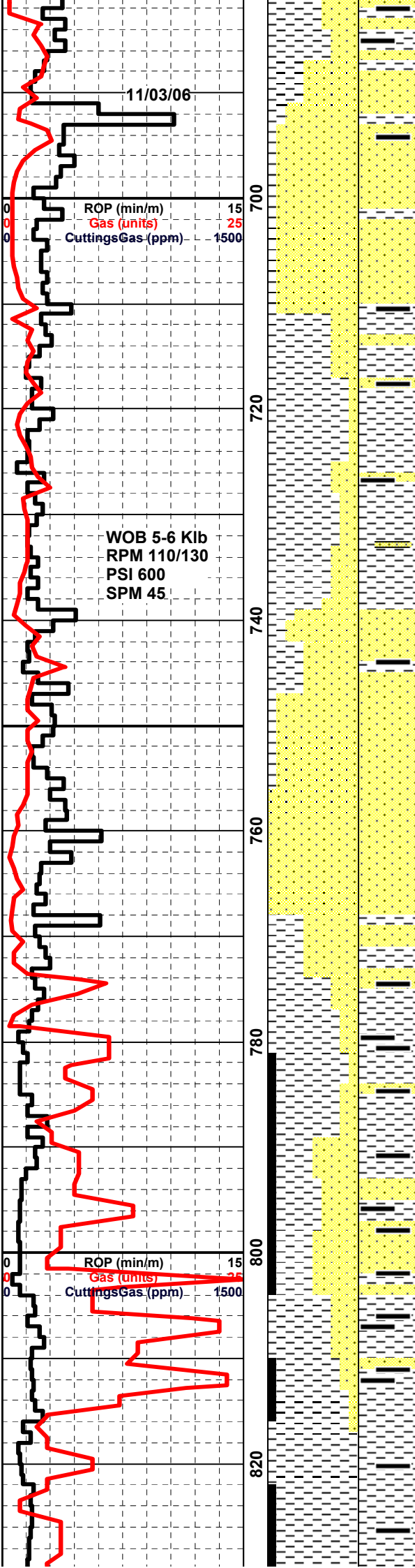
Cuttings Gas 234 ppm C1

Cuttings Gas 234 ppm C1

Cuttings Gas 281 ppm C1

Cuttings Gas 234 ppm C1

Cuttings Gas 187 ppm C1



SS:off wh-med grn gy,vf-r med,dom
fn,sbang-sbrnd,mod srtd,str sil and
wk calc cmt,abund off wh arg
mtx,abund altr fldspr grns,cmn grn
gy lths,cmn qtz grns,tr brn/blk
lths,tr-cmn cal vng,hd,no vis por.

- FLU: (trace) Calc frac lining has
patchy mod bri pl ylw flu,mod bri
milky wh ccut,thn rring.

The coal detritus has no flu but
gives v wk dull milky-wh cc

CLYST:lt-dk gy-med gn gy-med bn
gy, v slty w/ alt feld gns, , occ carb
spks and lams, tr calc lined
fracs,mod hd, sl sbfiss,splntry i/p.

- FLU: (rare) Calc frac lining has
patchy mod bri pl ylw flu,mod bri
milky wh ccut,thn rring.
- MW 8.7, FV:41, PV/YP: 6/14, Gel:
4/5/6, WL:6.8, FC: 1.0, Sol: 2.1, pH:
8.8, CI: 6500

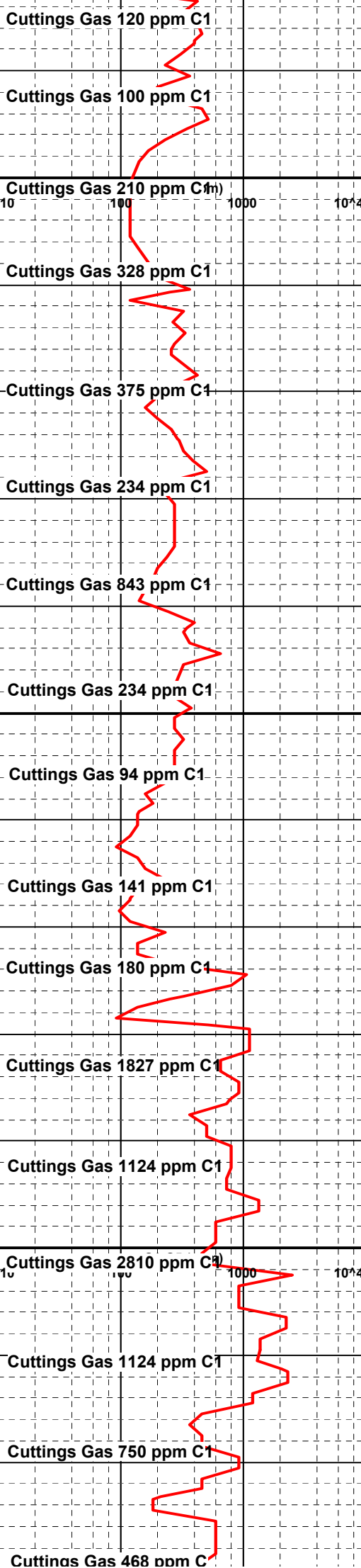
SS:off wh-med grn gy,vf-f, occ
med,dom fn,sbang-sbrnd,mod
srtd,str sil and wk calc cmt,abund
off wh arg mtx,abund altr fldspr
grns,cmn grn gy lths,cmn qtz grns,tr
brn/blk lths,tr blk coal det, tr-cmn cal
vng,hd,no vis por, no oil fluor.

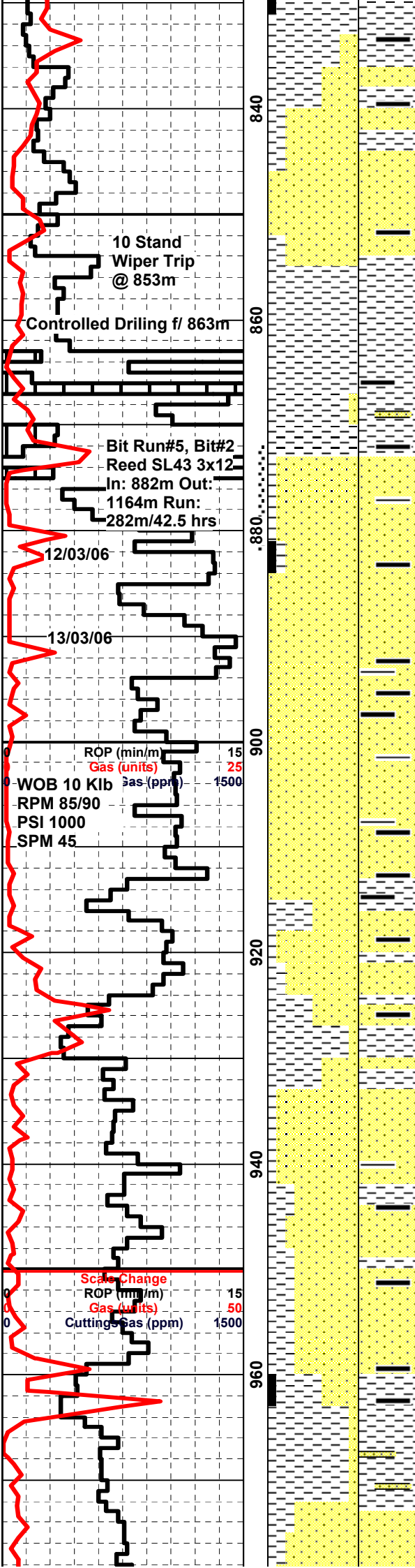
CLYST: m-dk gy-med gn gy-med bn
gy, often slty grdg i/p to sltst, v f
aren w/ alt feld gns, , sl-mod carn,
occ carb spks and lams det, rr
micmica, tr calc vng,mod hd,
sbfiss.

COAL: blk-dk brn gy, earthy where
arg, plty-sb conch fract, v arg i/p,
mod hd-hd, brit, no fluor but wk dull
yell crush cut

SS:off wh-med grn gy,vf-f, occ
med,dom fn,sbang-sbrnd,mod
srtd,str sil and wk calc cmt,abund
off wh arg mtx,abund altr fldspr
grns,cmn grn gy lths,cmn qtz grns,tr
brn/blk lths,tr blk coal det, tr-cmn cal
vng,hd,no vis por, no oil fluor.

CLYST: m-dk gy-med gn gy-med bn
gy, often slty grdg i/p to sltst, v f
aren w/ alt feld gns, , sl-mod carn,
occ carb spks and lams det, r





occ carb spks and lams det, r micmica, tr calc vng,mod hd, sbfiss.

SS:off wh-med grn gy,vf-f, occ med,dom fn,sbang-sbrnd,mod srtd,str sil and wk calc cmt,abund off wh arg mtx,abund altr fldspr grns,cmn grn gy liths,cmn qtz grns,tr brn/blk liths,tr blk coal det, tr-cmn cal vng,hd,no vis por, no oil fluor.

CLST:med to occ dk gy to med grn gy to med brn gy,v slty i/p,v fn aren w/ altr fldspr grns i/p,sli carb, cmn blk coal detrts, r micmic,mod hd,sbfiss.

DST#2:872.45-882m.IF 25mins,ISI 5 mins,FF 240 mins, FSI 60 mins.NGTS,NFTS,Rec 142.5 m fresh water. RW = 3.98 @ 25 degC sample water chamber

● SS:Off wh-med grn gy,,vfmf,pred med, sbang-sbrnd, mod srtd, str sil & mod calc cmt, cmn-abund grn gy arg mtx, abund altr fldspr grns and liths, cmn qtz grns,cmn blk coal det,hd,v pr intgrn por.

● FLU(70%): SS has 5% patchy lt brn oil stng w/70% dull to occ mod bri ptchy med yl flu, dll pl ylw ccut,occ sl strmg pale ylw cut,thn rring.

● COAL: tr-5% blk-dk brn gy, earthy where arg, plty-sb conch fract, v arg i/p, mod hd-hd, brit, no fluor but wk dull milky wh crush cut

SS: Off wh-med grn gy,vf-mf,pred med, sbang-sbrnd, mod srtd, str sil & mod calc cmt, cmn-abund grn gy arg mtx, abund altr fldspr grns and liths, cmn qtz grns,cmn blk coal det, tr calc vng, hd, n vis por, no oil fluor

● CLST: med - dk gy, occ m brn gy, v slty i/p grdg to slst, v fn aren w/ altr fldspr grns i/p, mod-v carb i/p, cmn blk coal detrts, rr micmic, mod hd, sbfiss.

MW 8.6, FV:37, PV/YP: 5/8, Gel: 3/4/5, WL:6.8, FC: 1.0, Sol: 1.3, pH: 9.0, CI: 7000

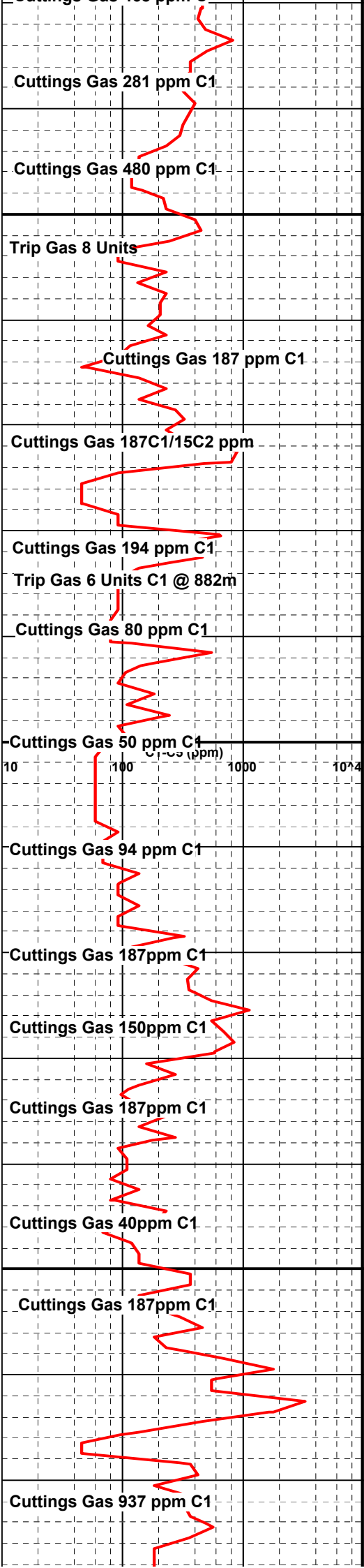
● SS: Off wh-med grn gy,vf-mf,pred med, sbang-sbrnd, mod srtd, str sil & mod calc cmt, cmn-abund grn gy arg mtx, abund altr fldspr grns and liths, cmn qtz grns,cmn blk coal det, tr calc vng, hd, n vis por, no oil fluor

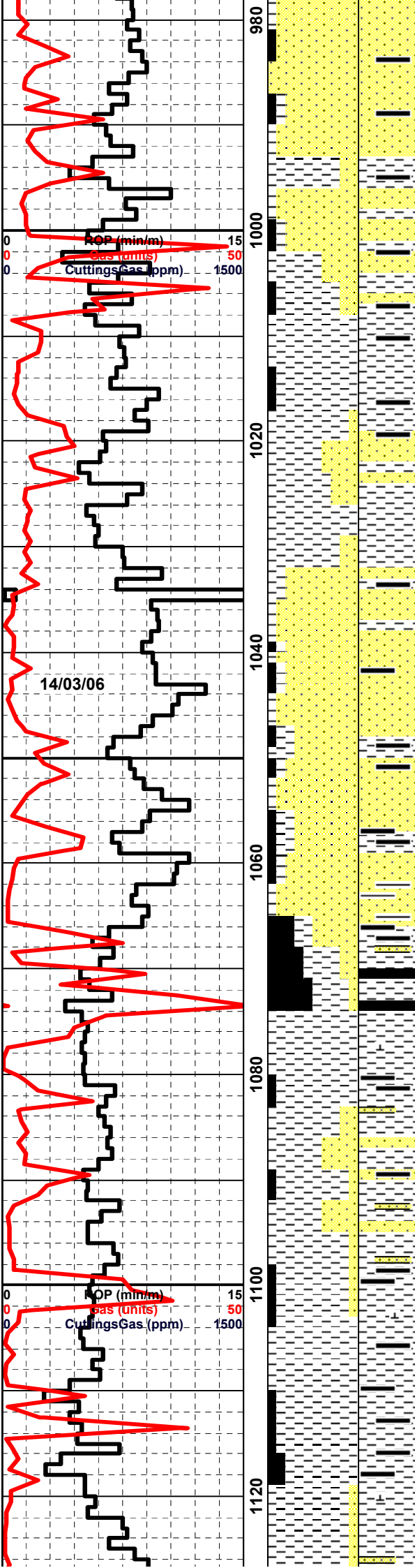
NOTE: change of scale Total Gas from 25 units to 50 units

COAL: blk,blky-strtd to subcon frc,sub-vitr,ofn earthy and v arg,hd brtl.

CLST:med to dk gy to med grn gy to med brn gy,oft v slty,v fn aren w/ altr fldspr grns i/p,sli-mod carb,cmn blk coal detrts,rr micmic,tr calc vng,mod hrs,sbfiss.

SS: Off wh-med grn gy,vf-mf,pred





SS: Off wh-med grn gy, vf-f, pred f, sbang-sbrnd, mod srted, str sil & mod calc cmt, cmn-abund grn gy arg mtx, abund altr fldspr grns and liths, tr qtz grns, tr orng brn & blk liths, tr blk coal det, tr calc vng, hd, n vis por, no oil fluor

COAL: blk, blkly-strtd to subcon frc, sub-vitr, oftn earthy and v arg, hd brtl.

CLST: med to dk gy to med grn gy to med brn gy, oft v slty, v fn aren w/ altr fldspr grns i/p, mod to v carb, cmn blk coal dtrts, rr micmic, tr calc vng, mod hrs, sbfiss.

MW 8.65, FV:34, PV/YP: 4/7, Gel: 2/3/4, WL:6.8, FC: 1.0, Sol: 1.9, pH: 8.8, CI: 5500

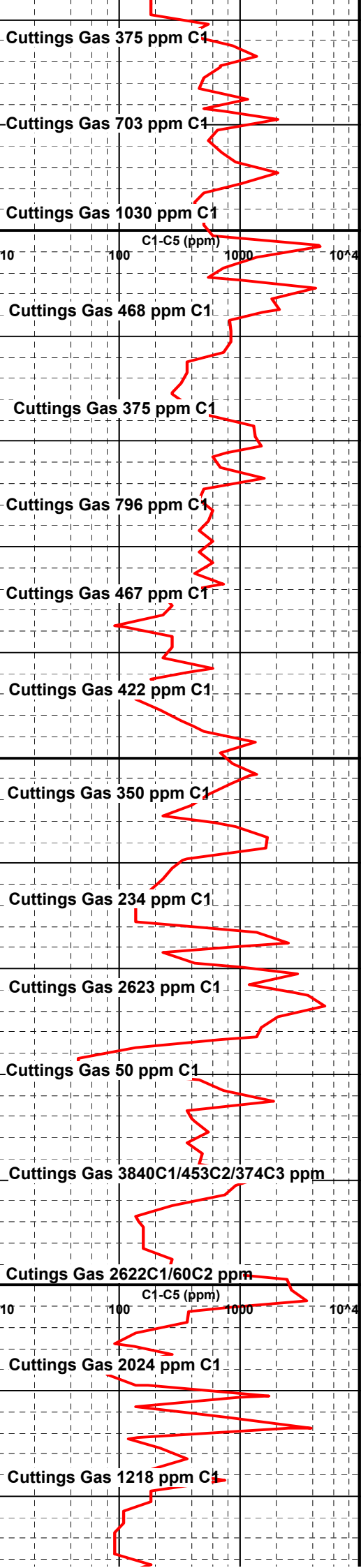
SS: Off wh-med grn gy, vf-f, pred f, sbang-sbrnd, mod srted, str sil & mod calc cmt, cmn-abund grn gy arg mtx, abund altr fldspr grns and liths, tr qtz grns, tr orng brn & blk liths, tr blk coal det, tr calc vng, hd, n vis por, no oil fluor

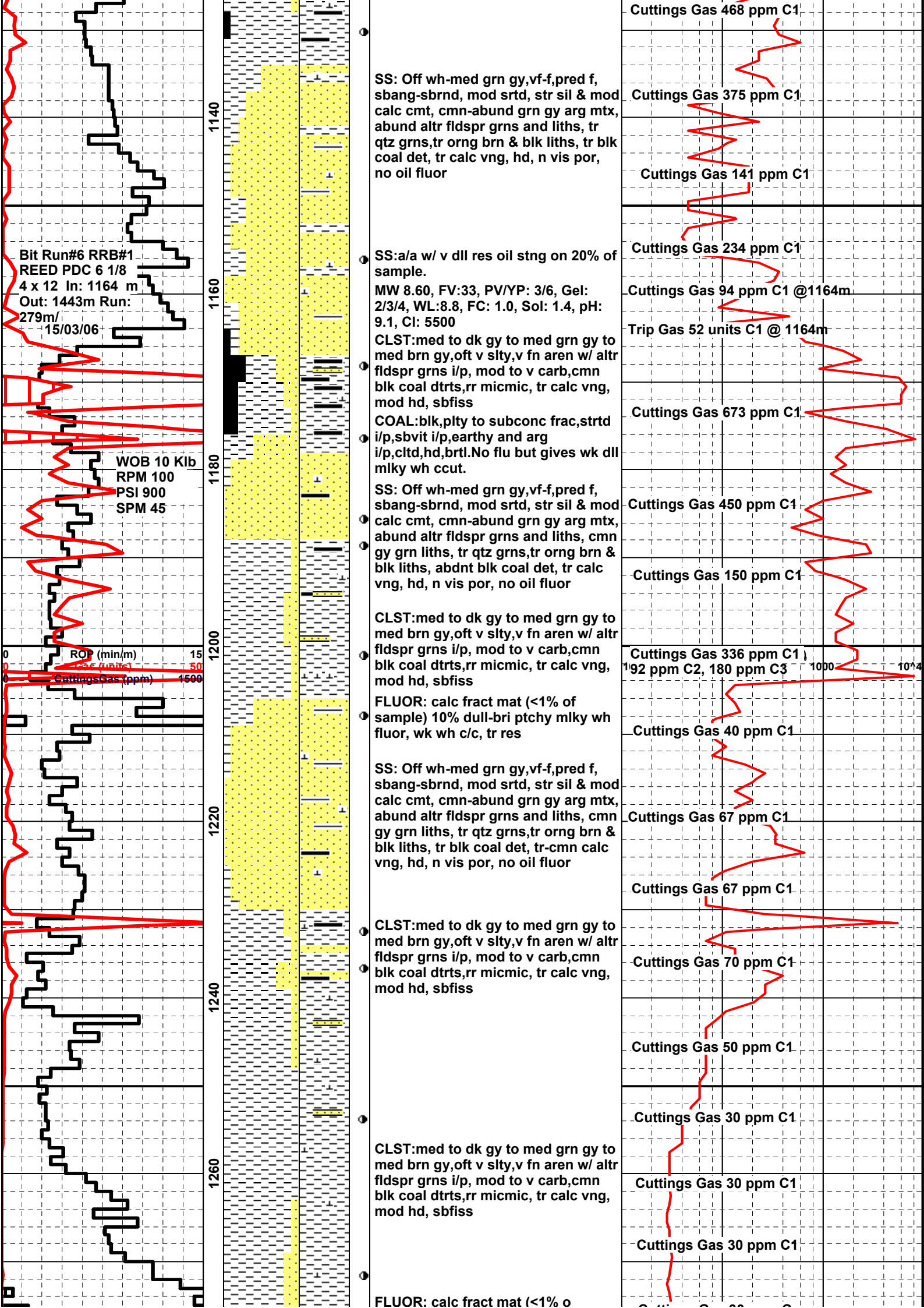
CLST: med to dk gy to med grn gy to med brn gy, oft v slty, v fn aren w/ altr fldspr grns i/p, mod to v carb, cmn blk coal dtrts, rr micmic, tr calc vng, mod hd, sbfiss.

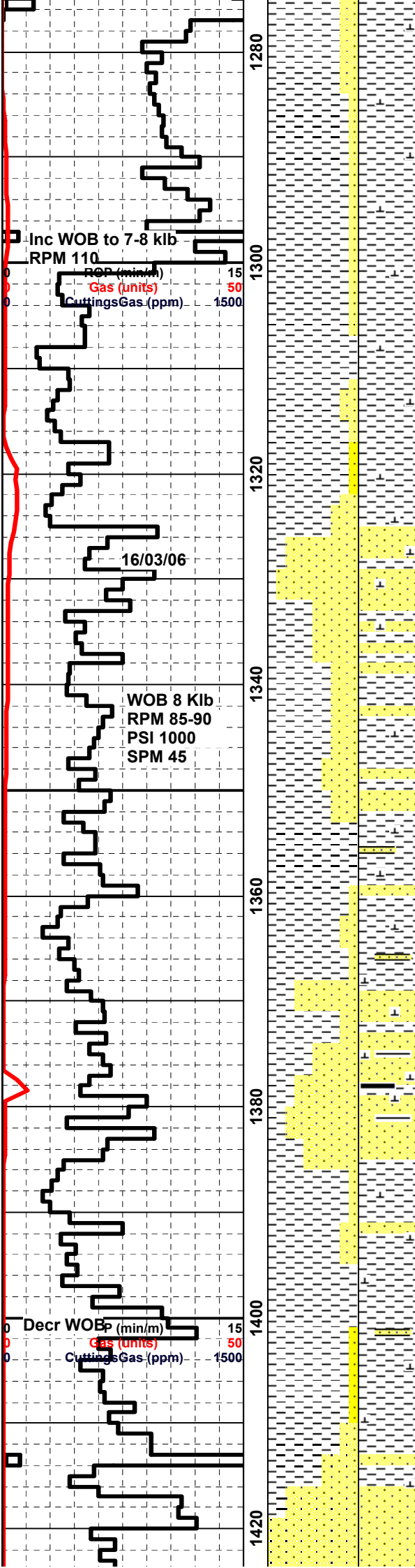
COAL: blk, blkly-strtd to subcon frc, sub-vitr, oftn earthy and v arg, hd brtl.

CLST: med to dk gy to med grn gy to med brn gy, oft v slty, v fn aren w/ altr fldspr grns i/p, mod to v carb, cmn blk coal dtrts, rr micmic, tr calc vng, mod hd

COAL: blk, plty to subconc frac, strtd i/p, sbvit i/p, earthy and arg i/p, cltd, hd, brtl. No flu but gives wk dll mlky wh ccut.







sample) tr dull-mod bri ptchy v pl yel
wh fluor, wk wh c/c, tr res

CLST:med to dk gy to med grn gy to
med brn gy,oft v slty,v fn aren w/ altr
fldspr grns i/p, mod to v carb,cmn
blk coal dtrts,rr micmic, tr calc vng,
mod hd, sbfiss

SS: Off wh-med grn gy,vf-f,pred f,
sbang-sbrnd, mod srtd, str sil & mod
calc cmt, cmn-abund grn gy arg mtx,
abund altr fldspr grns and liths, cmn
gy grn liths, tr qtz grns,tr orng brn &
blk liths, rr blk coal det, tr calc & rd
orng vng, hd, n vis por, no oil fluor

FLUOR: calc fract mat (<1% of
sample) 10% dull-mod bri ptchy v pl
yel wh fluor, wk wh c/c, tr res
MW 8.65, FV:36, PV/YP: 5/9, Gel:
2/3/4, WL:6.8, FC: 1.0, Sol: 1.9, pH:
9.1, CI: 5500

CLST:med- m brn gy, occ dk gy, oft
v slty grd g to sltst, oft v fn aren w/
altr fldspr grns i/p,sl- mod to v
carb,tr blk coal det,rr-tr micmic, tr
calc & orng rd min vng, mod hd,
sbfiss

FLUOR: calc fract mat (<1% of
sample) tr dull-mod bri ptchy v pl yel
wh fluor, wk wh c/c, tr res

SS: Off wh-med grn gy,vf-f,pred f,
sbang-sbrnd, mod srtd, str sil & mod
calc cmt, cmn-abund grn gy arg mtx,
abund altr fldspr grns and liths, cmn
gy grn liths, tr qtz grns,tr orng brn &
blk liths, rr blk coal det, tr calc & rd
orng vng, hd, n vis por, no oil fluor

CLST:med- m brn gy, occ dk gy, oft
v slty grd g to sltst, oft v fn aren w/
altr fldspr grns i/p,sl- mod to v
carb,tr blk coal det,rr-tr micmic, tr
calc & orng rd min vng, mod hd,
sbfiss

MW 8.70, FV:36, PV/YP: 6/11, Gel:
3/4/5, WL:7.0, FC: 1.0, Sol: 2.2, pH:
9.5, CI: 6000

SST:off wh-med gn gy, vf,
sbang-sbrnd, mod srtd, strng sil &
wk calc cmts, abnd lt gn gy arg mtx,

