

Scale: 1:50
Measured Depth Log

Well Name Lamont Pass #3

State Northern Territory

Country Australia

Spud Date 5th October 2013

Surface Coordinat... GDA94 Zone 53
631148.1mE 8146460mN

Ground Elevation 89.66

Geologist

Name G Bailey

Core Information

Contractor Nitro Drilling

Rock Types

UNKNOWN	COAL	SILTSTONE	IGNEOUS
SIDERITE or LIMONITE	CLAYSTONE	SANDSTONE	DOLOMITIC SILTSTONE
LIMESTONE	SHALE	CONGLOMERATE	CEMENT
DOLOMITE	SHALE GRAY	BRECCIA	
CHERT	SHALE COLORED	TUFF	

Accessories

Fossils

- ALGAE
- AMPHIPORA
- BELEMNITE
- BIOCLASTIC
- BRACHIOIPOD
- BRYOZOA
- CEPHALOPOD
- CORAL
- CRINOID
- ECHINOID

F FOSSIL

- GASTROPOD
- OOLITE
- OSTRACOD
- PELECYPOD
- PELLET
- PISOLITE
- PLANT REMAINS
- PLANT SPORES
- SCAPHOPOD
- STROMATOPOROID

ARGILLACEOUS

- ARGILLITE GRAIN
- BENTONITE
- BITUMENOUS SUBSTANCE
- BRECCIA FRAGMENTS
- CALCAREOUS
- CARBONACEOUS FLAKES
- CHTDK
- CHTLT
- COAL - THIN BEDS
- DOLOMITIC
- FELDSPAR

GLAUCONITE

- GYPSIFEROUS
- HEAVY MINERAL
- KAOLIN
- MARLSTONE
- MINERAL CRYSTALS
- NODULES
- PHOSPHATE PELLETS
- PYRITE
- SALT CAST
- SANDY
- SILICEOUS

Stringer

- ANHYDRITE STRINGER
- BENTONITE STRINGER
- COAL STRINGER
- DOLOMITE STRINGER
- GYPSUM STRINGER
- LIMESTONE STRINGER
- MARLSTONE (CALC) STRG
- MARLSTONE (DOL) STRG
- SANDSTONE STRINGER
- SHALE STRINGER



FISH

Minerals

FERRUGINOUS PELLET

SILTY

SILTSTONE STRINGER

FORAMINIFERA

ANHYDRITIC

FERRUGINOUS

TUFFACEOUS

Oil Show

DEAD

EVEN

QUESTIONABLE

SPOTTED STAINING

Porosity

EARTHY

FENESTRAL

FRACTURE

INTERCRYSTALLINE

INTEROOLITIC

MOLDIC

ORGANIC

PINPOINT

VUGGY

Engineering

BIT

CASING

CONNECTION (LEFT)

CONNECTION (RIGHT)

CONNECTION GAS

CORE - LOST

CORE - RECOVERED

DST INTERVAL

FAULT

Other Symbols

FORMATION TOP

GAS SHOW

MN DEPTH

NORMAL FAULT

OIL SHOW

OVERTURNED STRATA

REVERSE FAULT

SIDEWALL CORE (LEFT)

SIDEWALL CORE (RIGHT)

SLIDE

SURVEY

TRIP GAS

WIRELINE TESTED - LEFT

WIRELINE TESTED - RT

Rounding

ANGULAR

ROUNDED

SUBANG

SUBRND

Textures

BOUNDSTONE

CHALKY

CRYPTOXLN

EARTHY

FINELYXLN

GRAINSTONE

LITHOGRAPHIC

MICROXLN

MUDSTONE

PACKSTONE

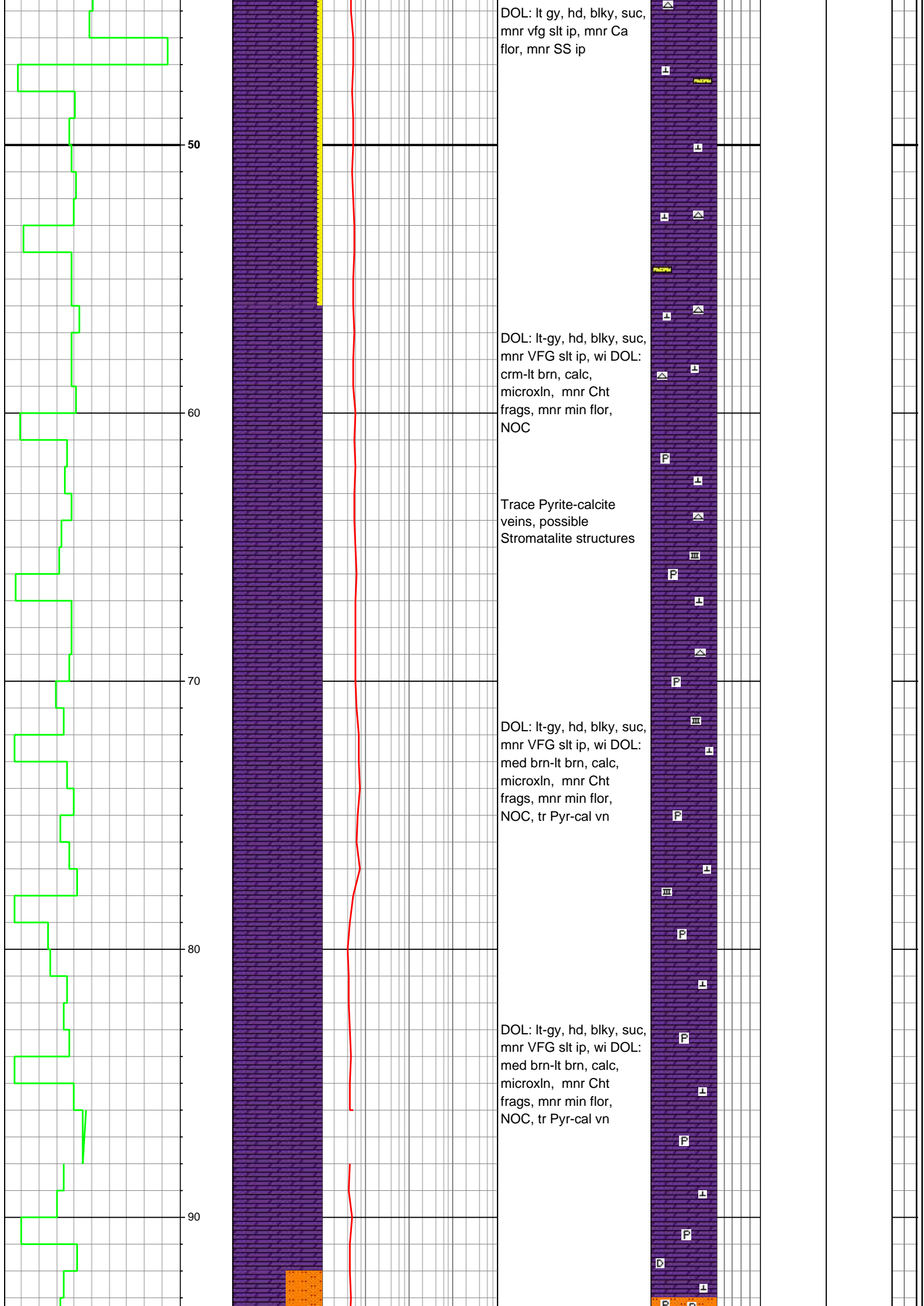
WACKESTONE

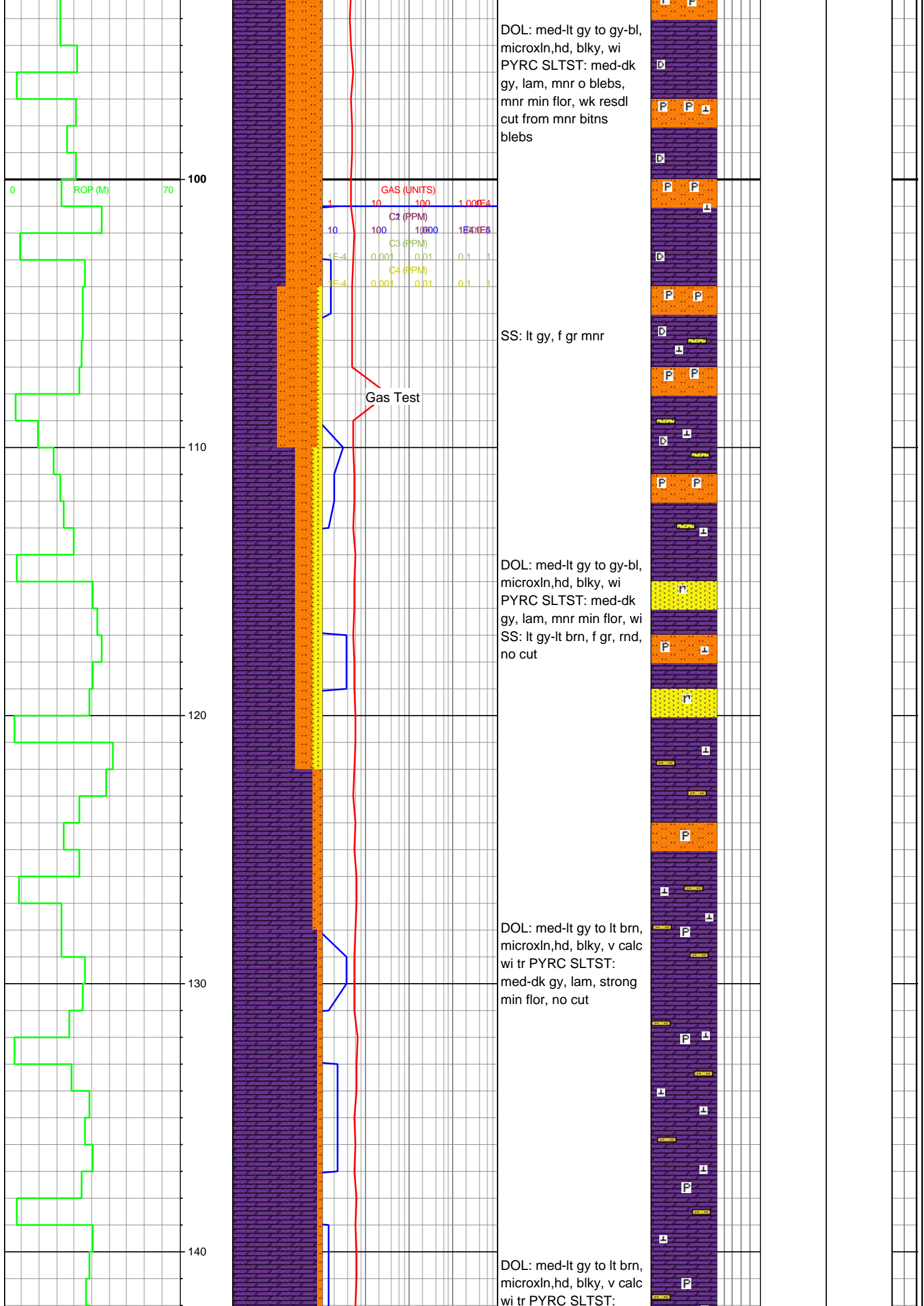
Sorting

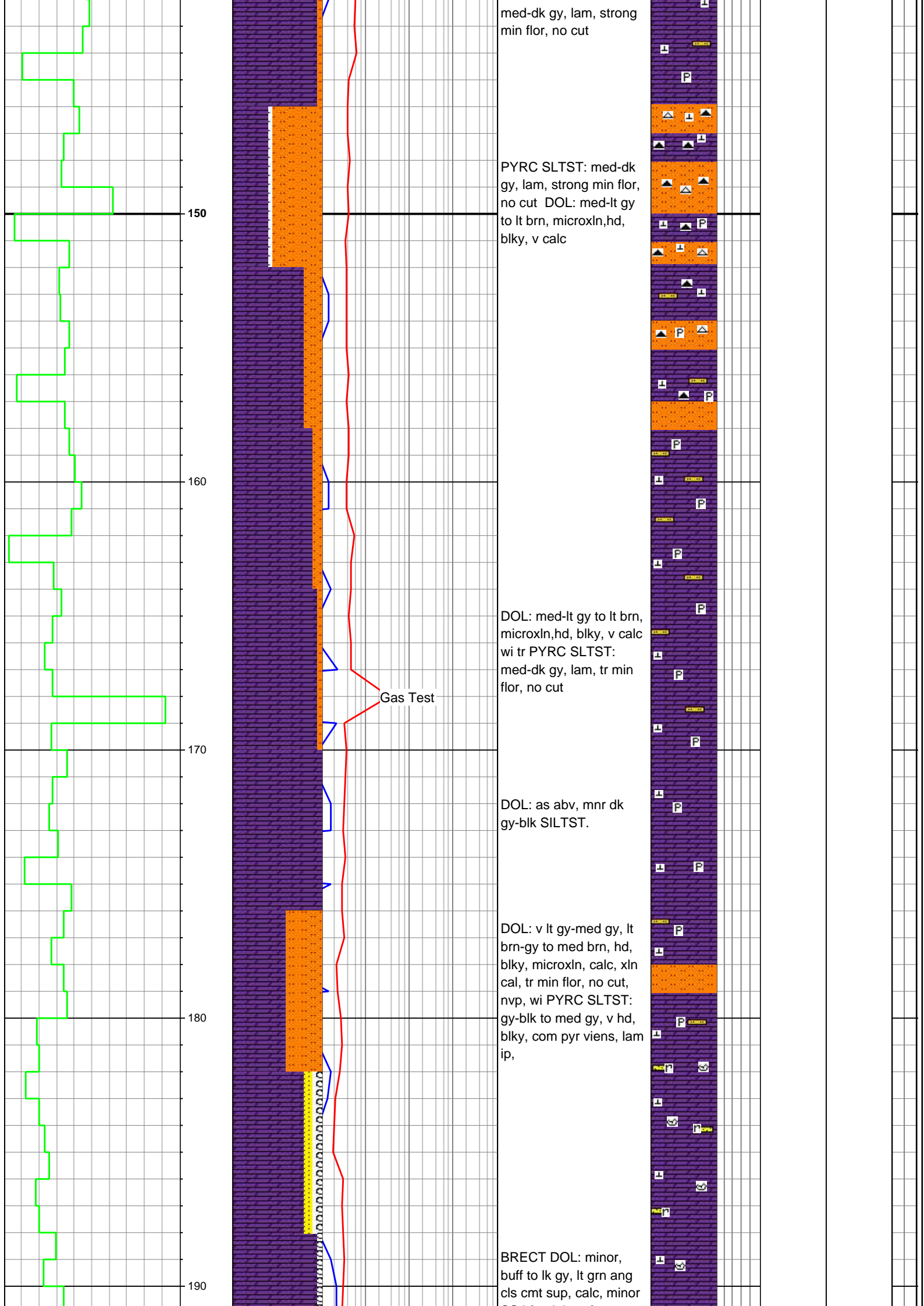
MODERATE

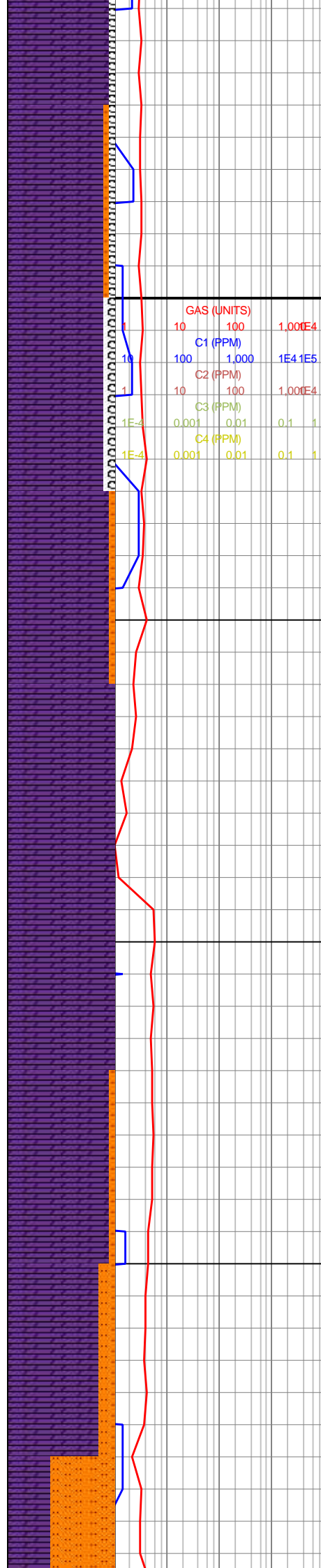
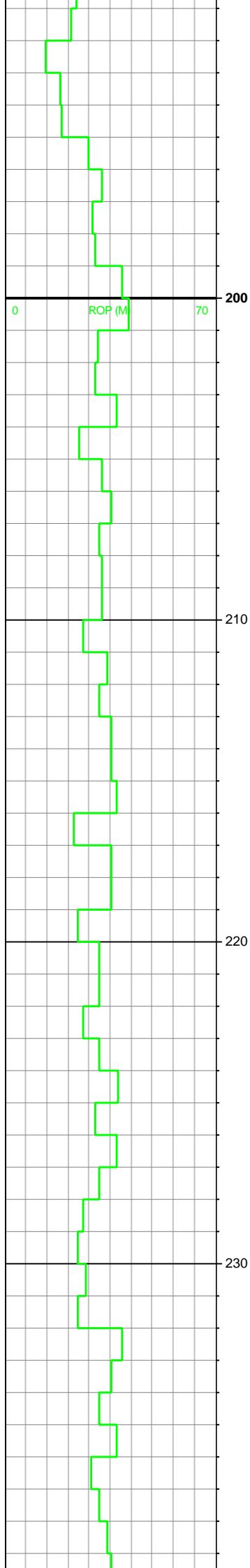
POOR

WELL









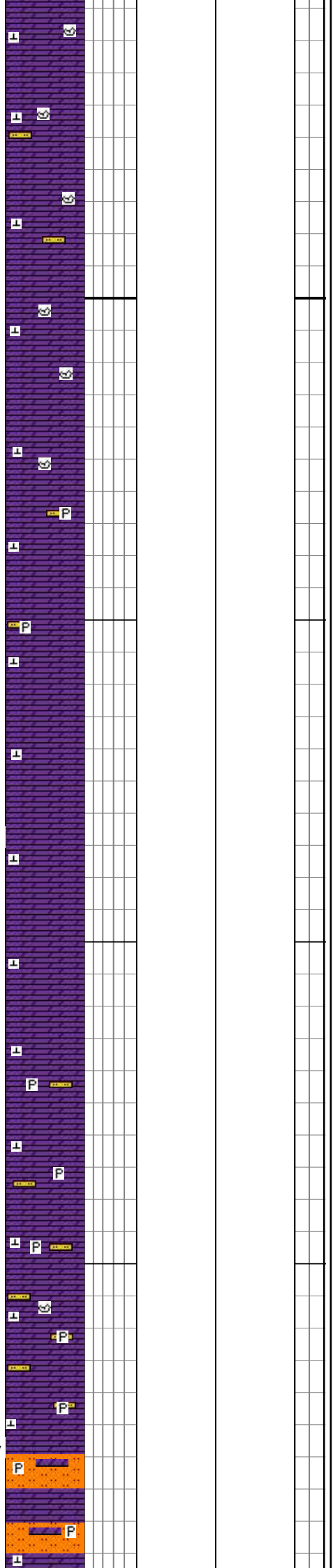
SS:bf to lt brn, f gr sr,
dolc cmt

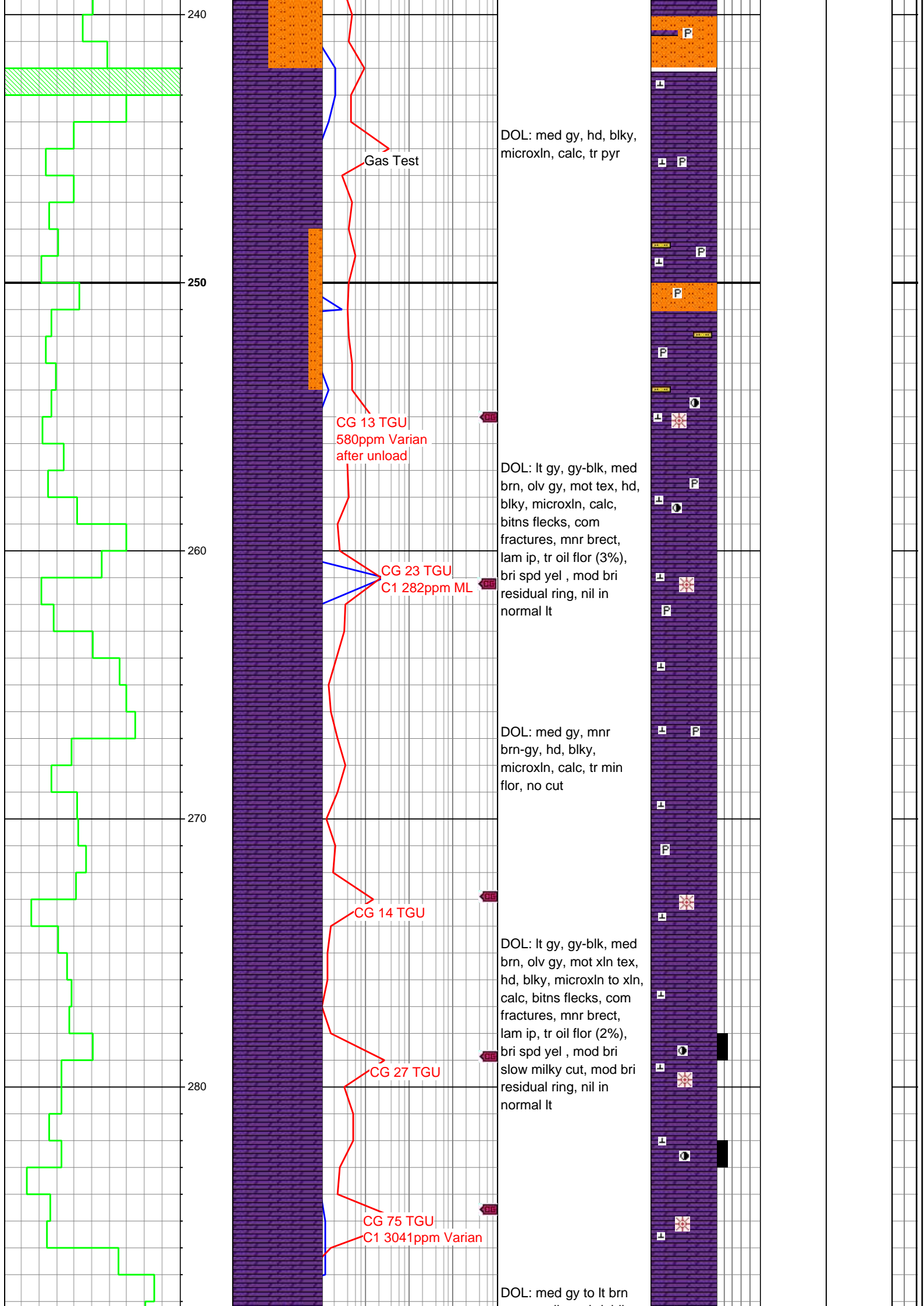
DOL: v lt gy-med gy, lt
brn-gy to med brn, hd,
blky, microxln, calc, xln
cal, tr min flor, no cut,
nvp, wi PYRC SLTST:
gy-blk to med gy, v hd,
blky, com pyr viens, lam
ip,

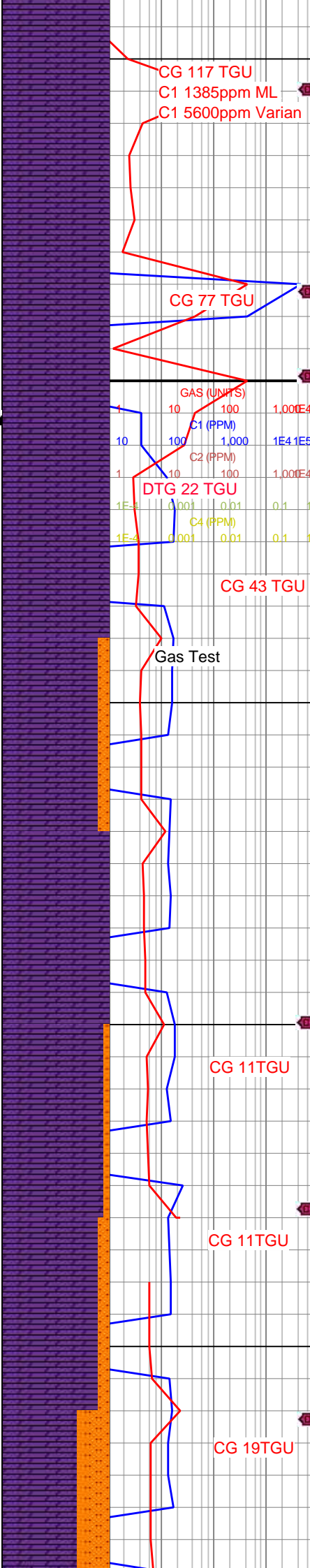
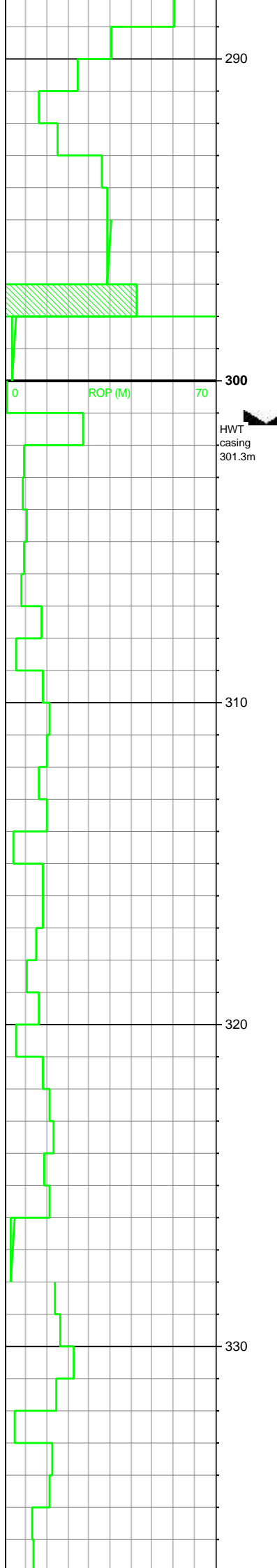
DOL: lt olv gy to lt gy,
mnr med dk gy brn, hd,
blky, microxln, calc, com
cal, strong min flor, no
cut, nvp,rare PYRC
SLTST

SLTST: lam ip, mnr cal
veins, weakly pyrc

SLTST: dk gy to gy-blk,
hd, blky, lam ip, mnr
mass pyr frags, mnr
diss pyr wi DOL: lt olv gy
to gy-blk to med dk brn,
hd, blky, microxln, calc,
mnr cal, strong min flor







gy, mnrdk gy, hd, blk, microxln, calc, com fi= xln cal frags, mic fracs ip, no flor

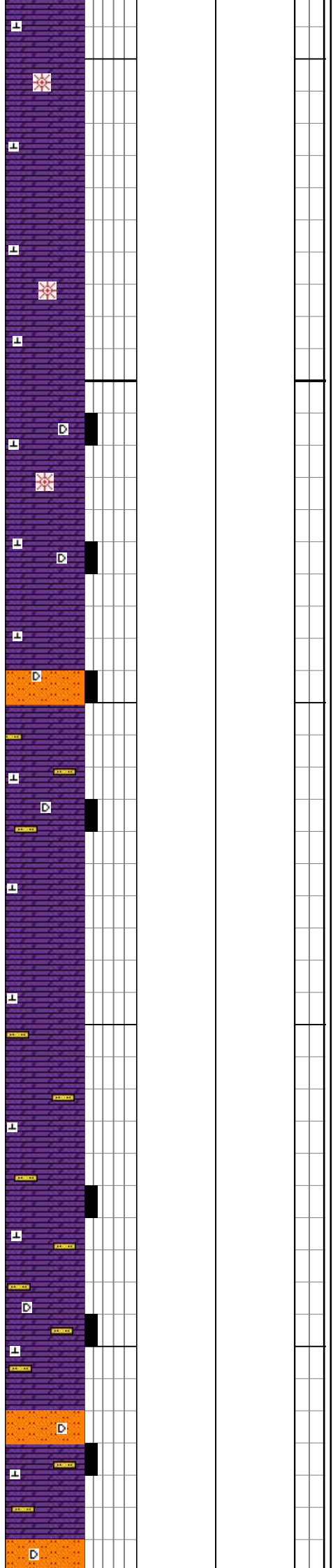
DOL: med gy to lt brn gy, mnrdk gy, hd, blk, microxln, calc, com f xln cal frags, mic fracs ip, no flor

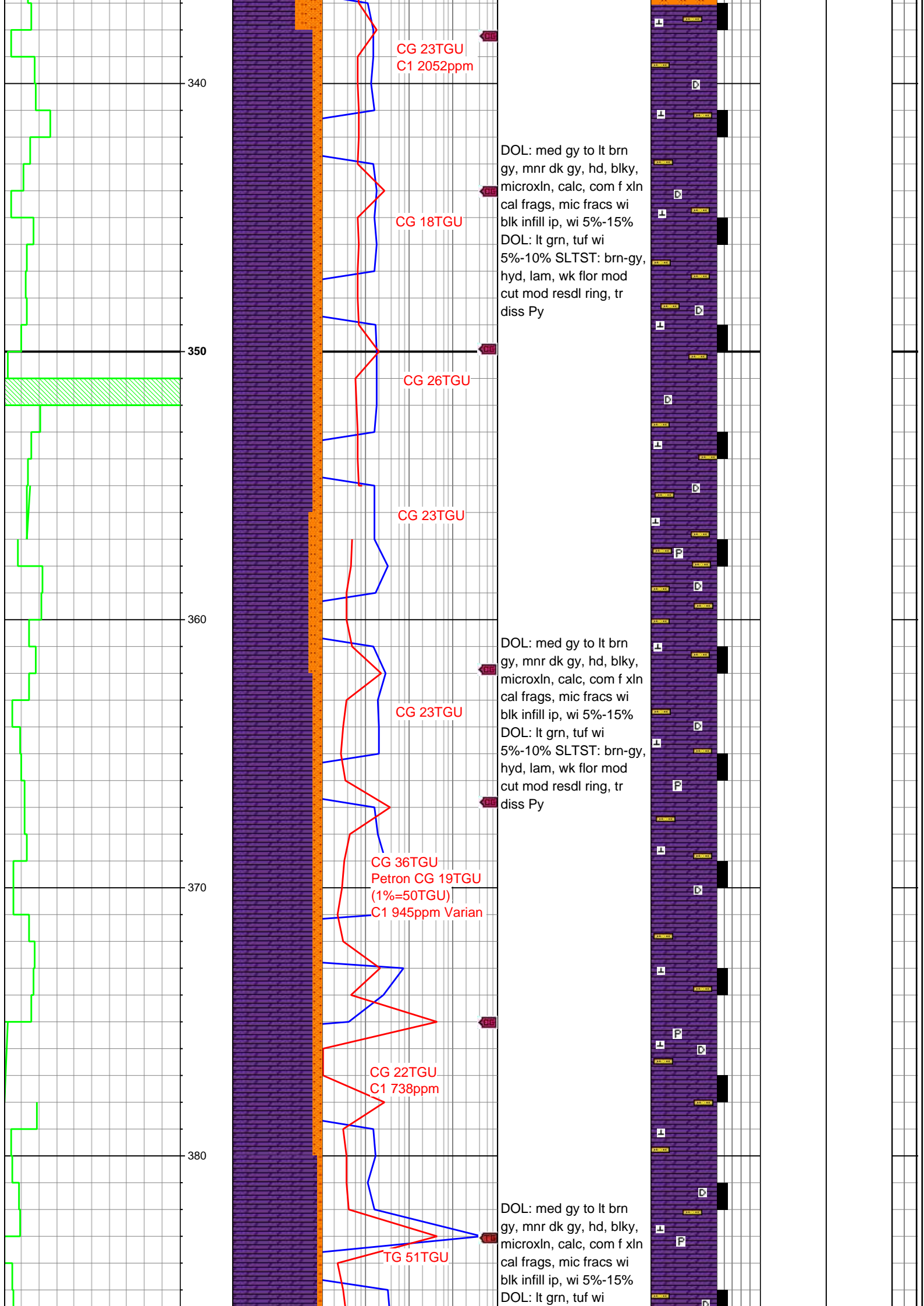
DOL: med gy to lt brn gy, mnrdk gy, hd, blk, microxln, calc, com f xln cal frags, mic fracs ip, wi mnrdk SLTST: brn-gy, hyd, lam, wk flos mod cut

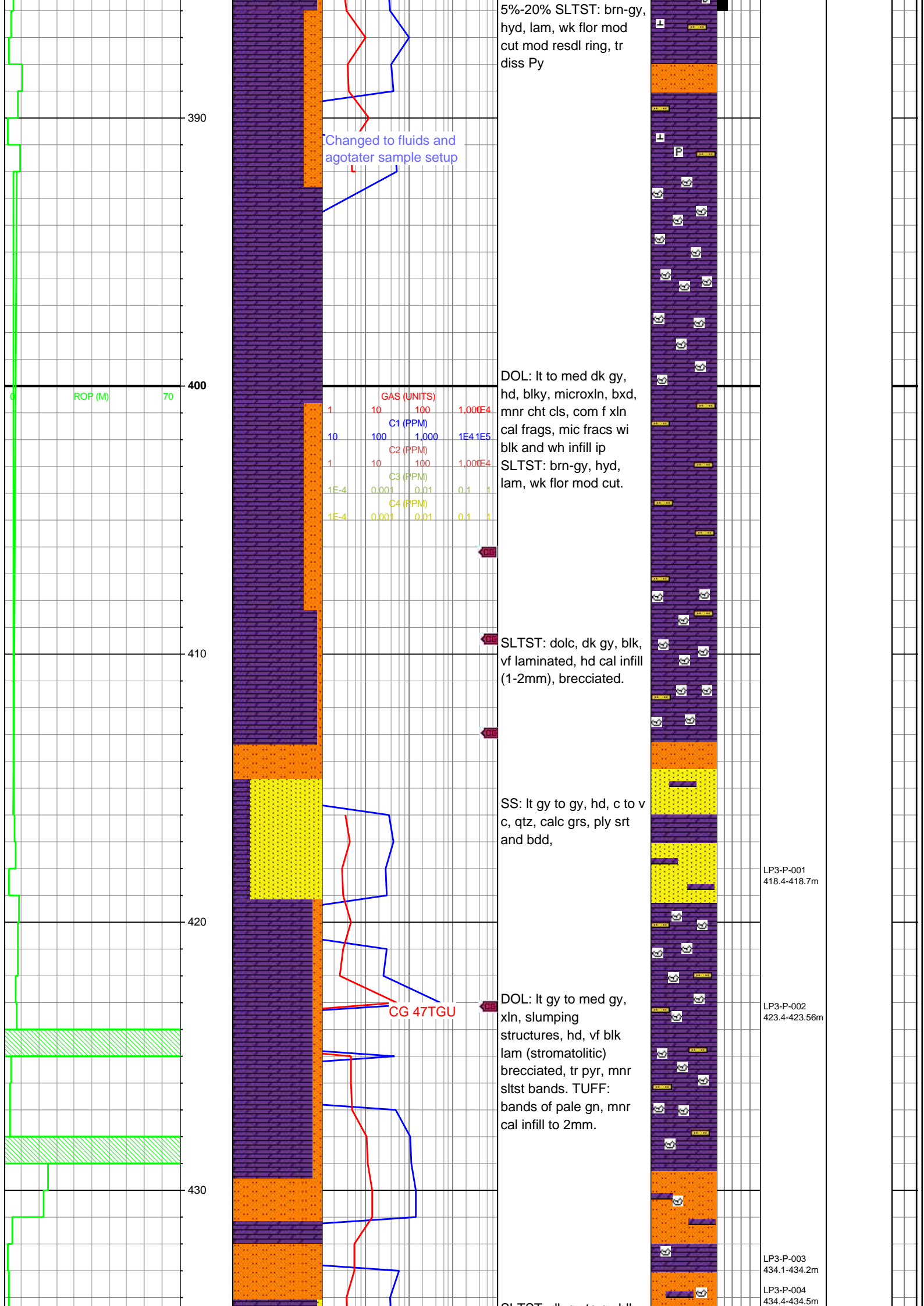
DOL: lt gy - gy, gy-gn ip, hd, blk, microxln, calc. no flor

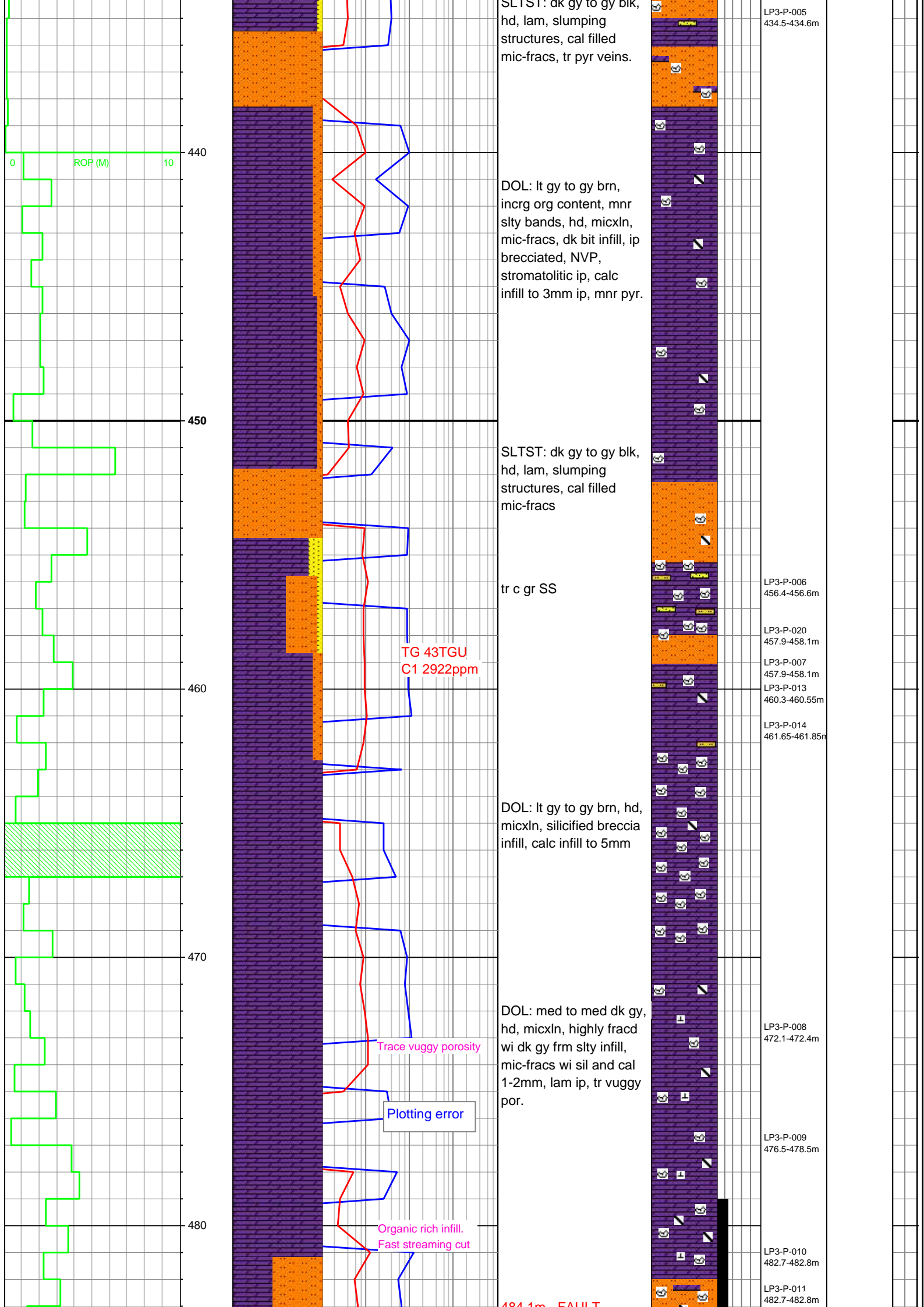
SLTST: incrg brn-gy, hd, lam

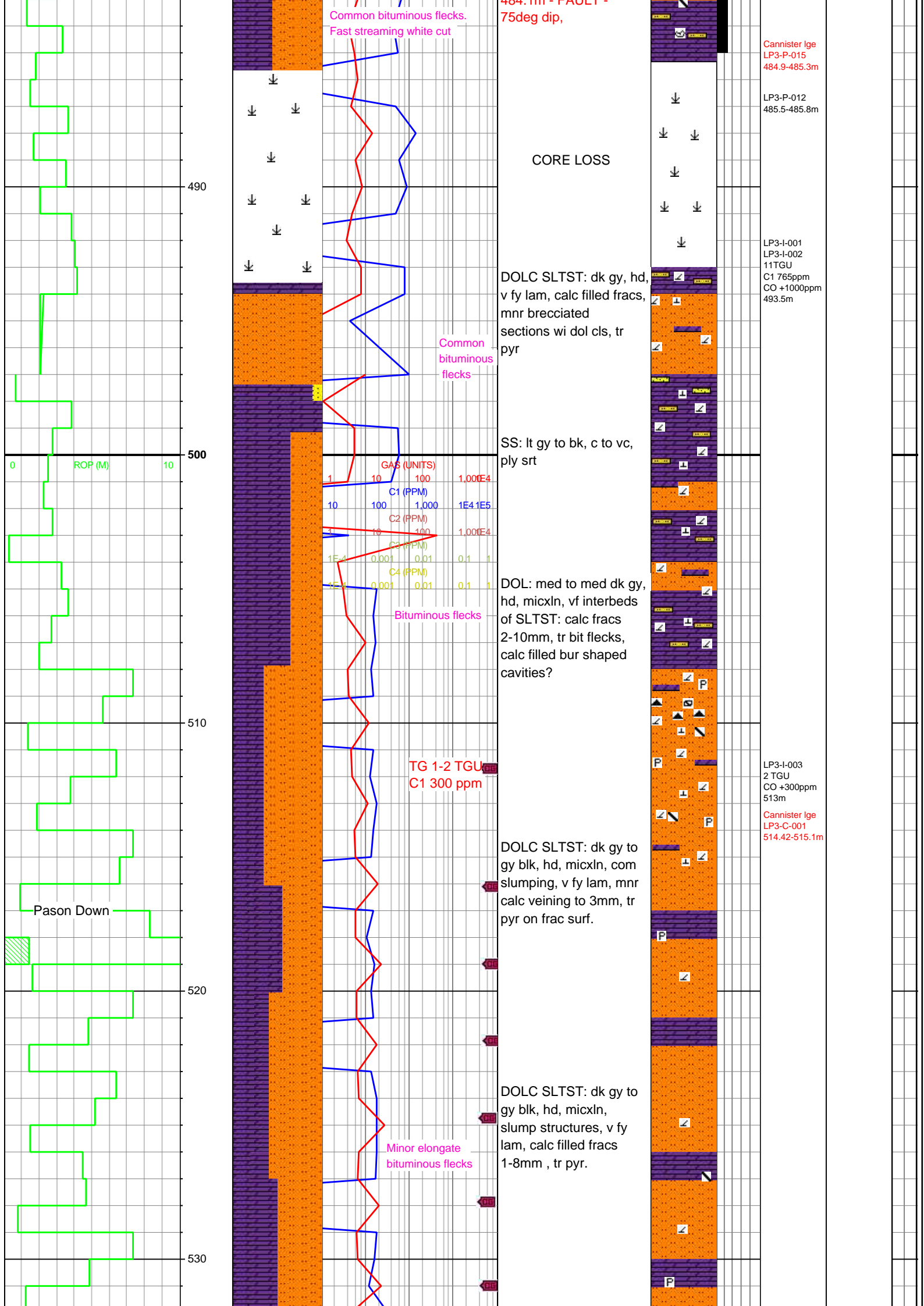
DOL: med gy to lt brn gy, mnrdk gy, hd, blk, microxln, calc, com f xln cal frags, mic fracs ip, wi 30% SLTST: brn-gy, hyd, lam, wk flor mod cut mod resdl ring

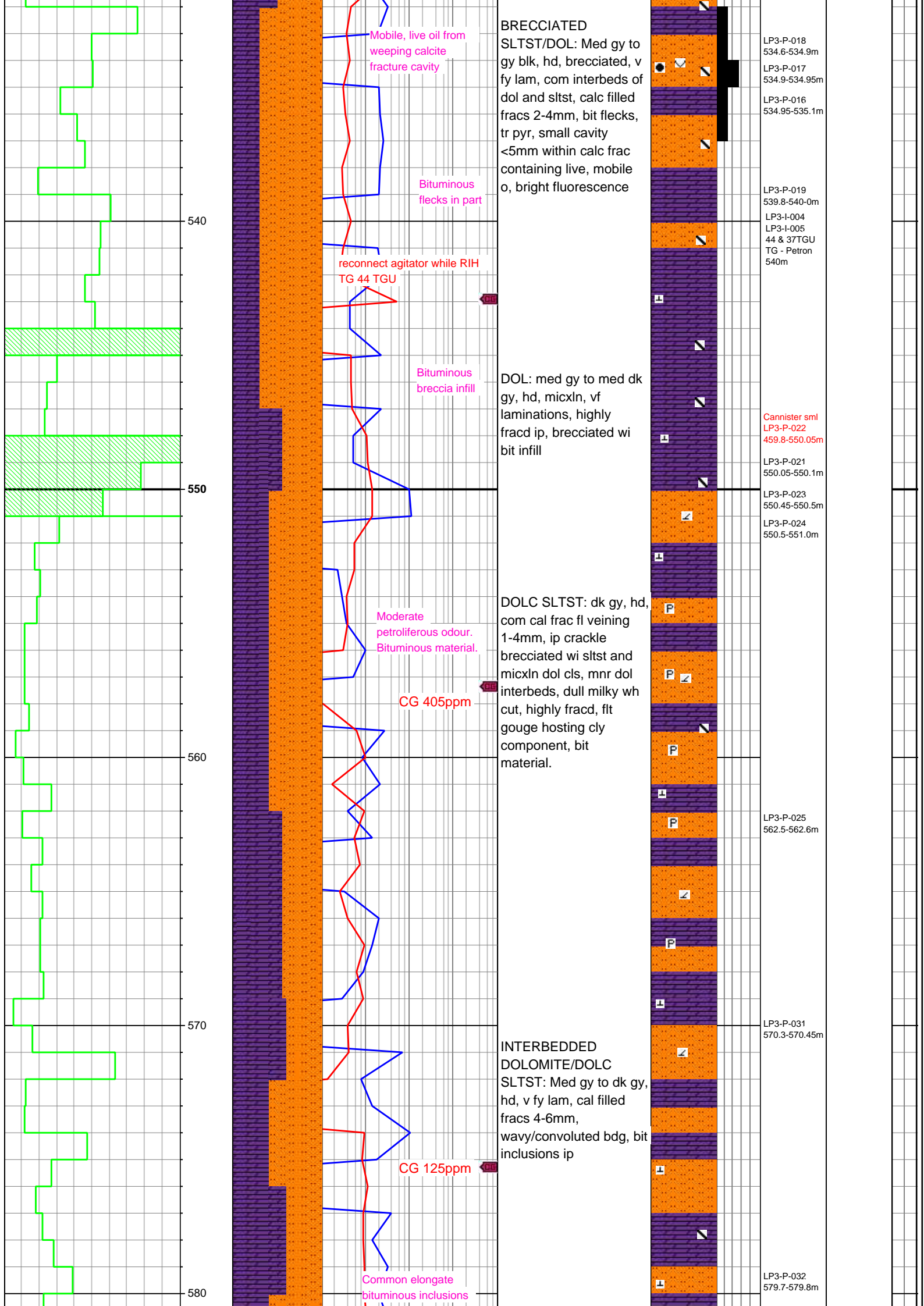


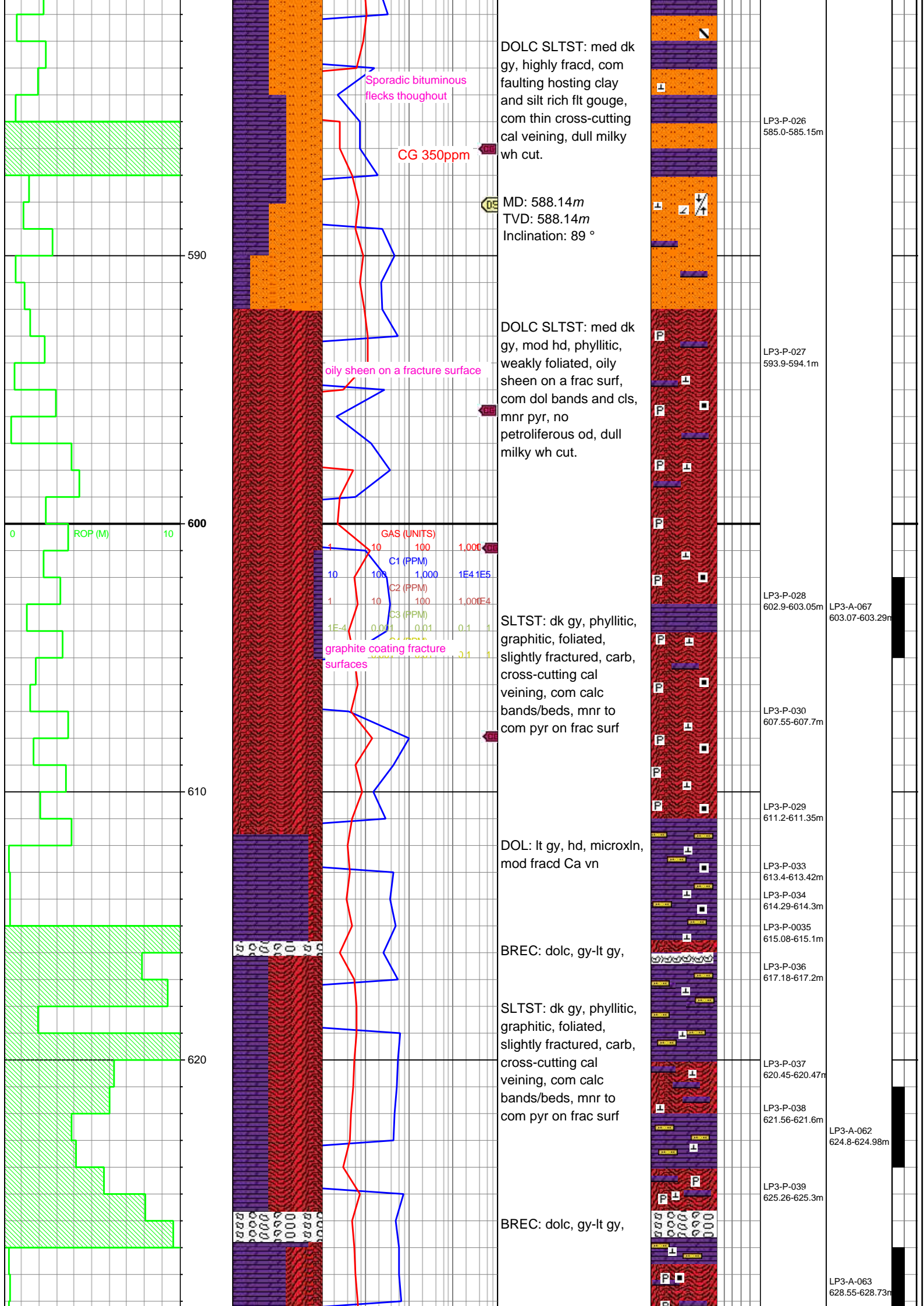


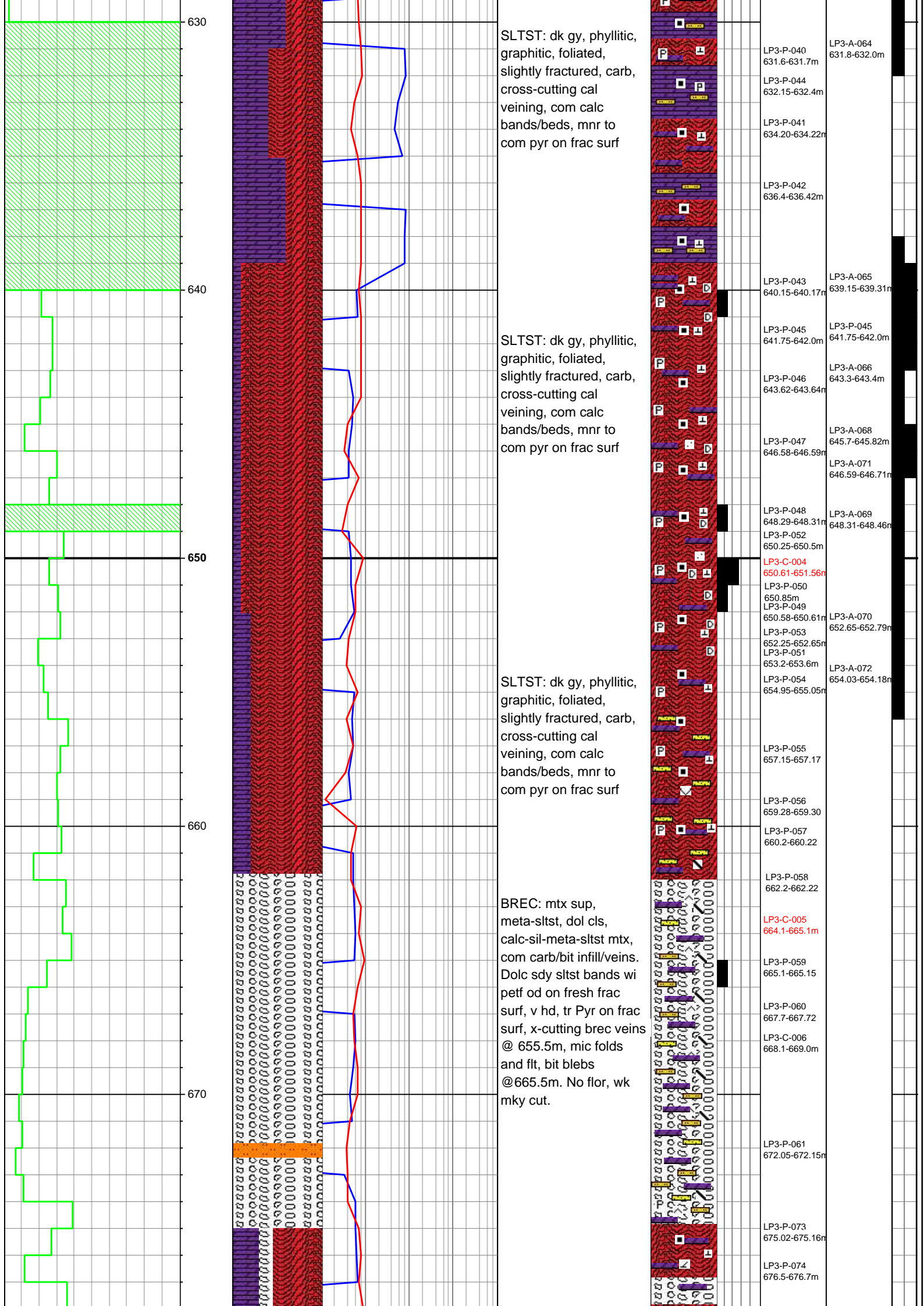


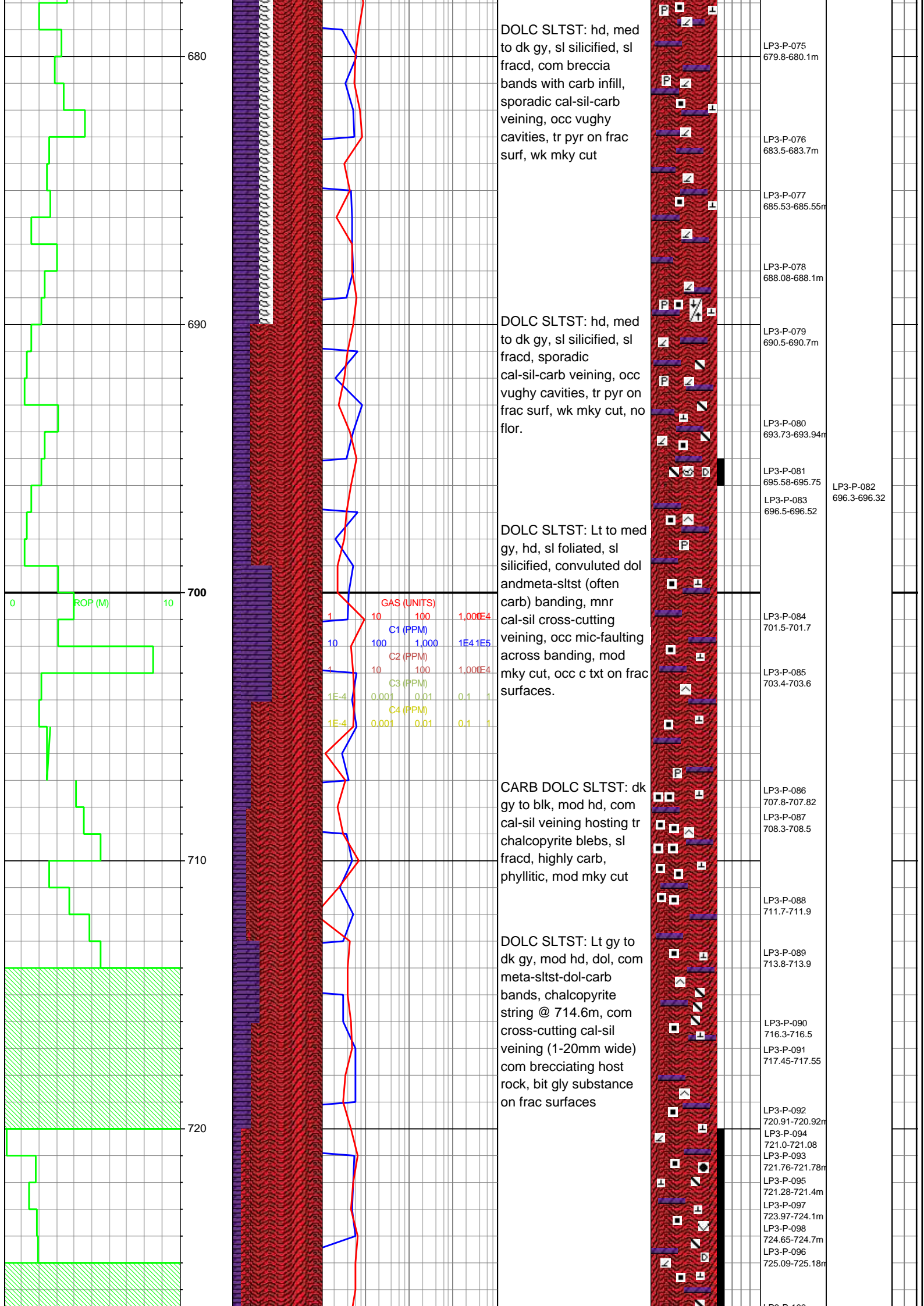


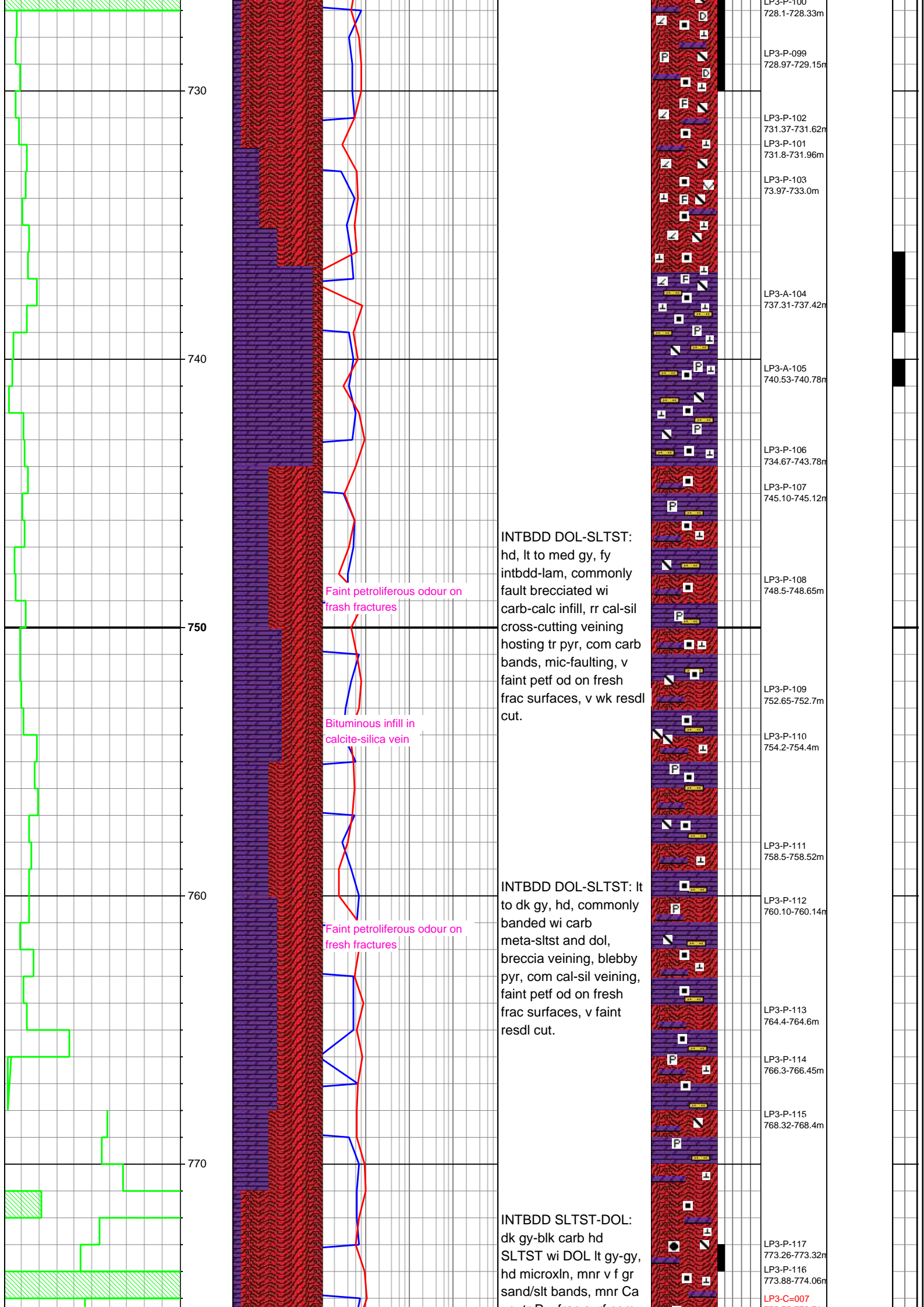


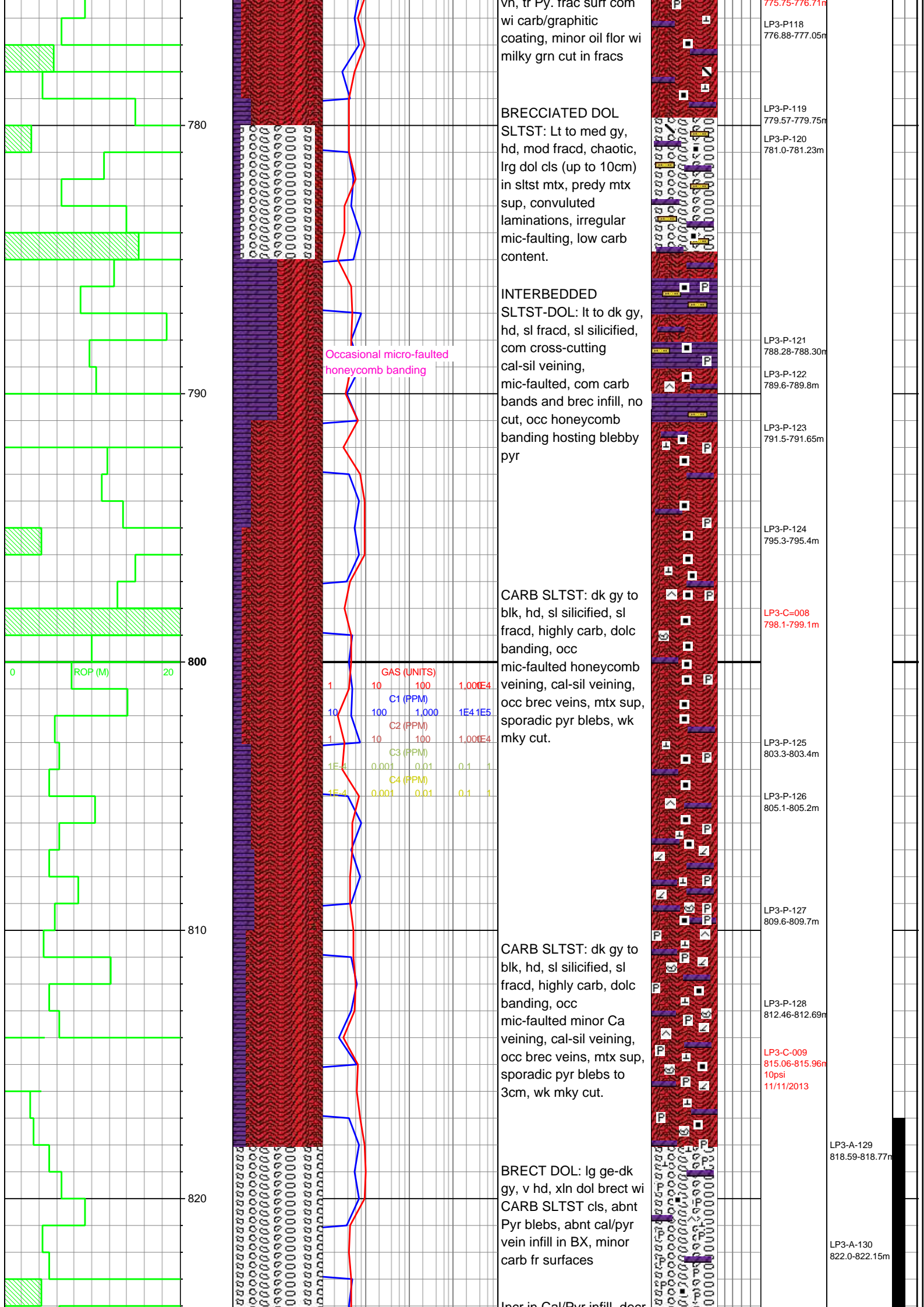


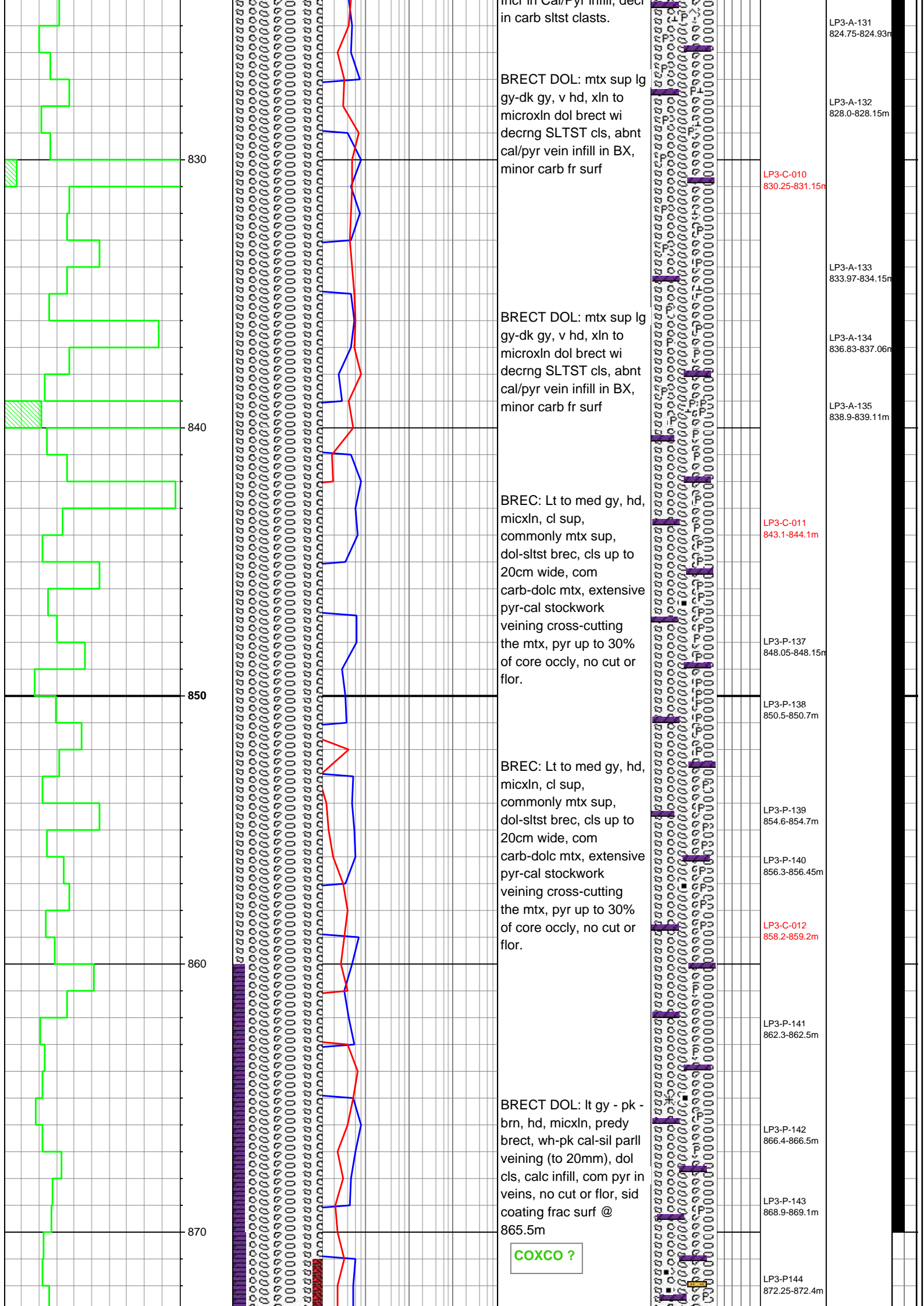












BRECHT DOL: mtz sup lg
gy-dk gy, v hd, xln to
microxln dol brech wi
decrng SLTST cls, abnt
cal/pyr vein infill in BX,
minor carb fr surf

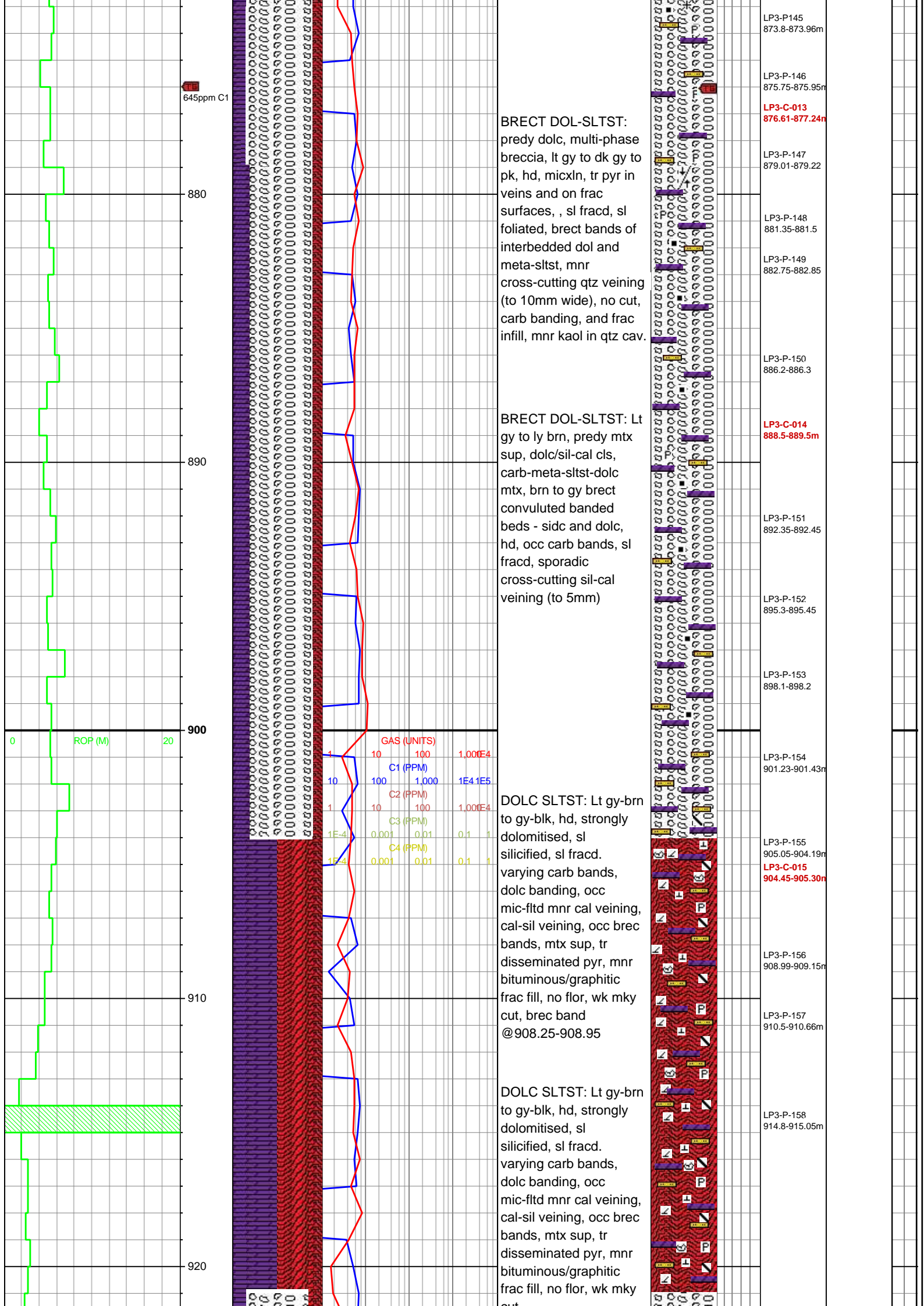
BRECHT DOL: mtz sup lg
gy-dk gy, v hd, xln to
microxln dol brech wi
decrng SLTST cls, abnt
cal/pyr vein infill in BX,
minor carb fr surf

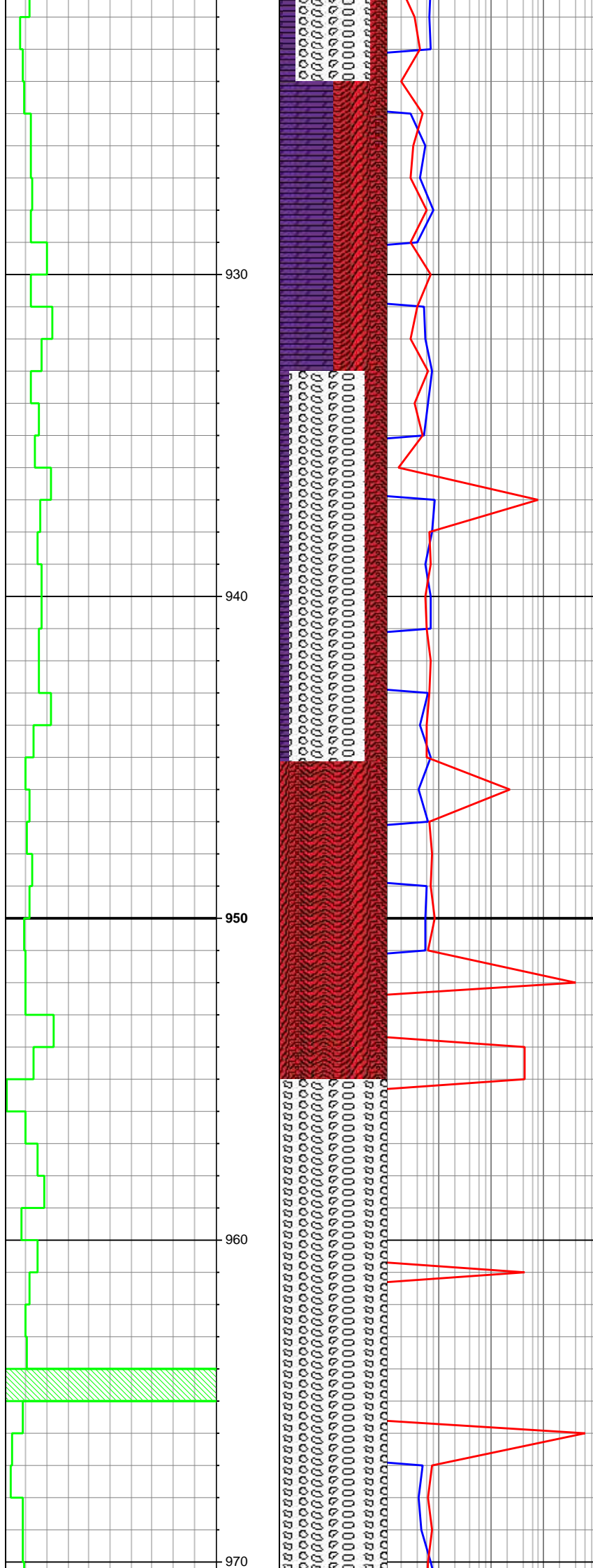
BRECHT: Lt to med gy, hd,
micxln, cl sup,
commonly mtz sup,
dol-sltst brech, cls up to
20cm wide, com
carb-dolc mtz, extensive
pyr-cal stockwork
veining cross-cutting
the mtz, pyr up to 30%
of core occlly, no cut or
flor.

BRECHT: Lt to med gy, hd,
micxln, cl sup,
commonly mtz sup,
dol-sltst brech, cls up to
20cm wide, com
carb-dolc mtz, extensive
pyr-cal stockwork
veining cross-cutting
the mtz, pyr up to 30%
of core occlly, no cut or
flor.

BRECHT DOL: lt gy - pk -
brn, hd, micxln, predy
brech, wh-pk cal-sil parll
veining (to 20mm), dol
cls, calc infill, com pyr in
veins, no cut or flor, sid
coating frac surf @
865.5m

COXCO ?





cut.

INTERBEDDED
DOL-SLTST: Lt gy to brn
to dk gy, hd, micxln,
bndd, flt brect ip, sl
fracd, sl silicified, com
carb banding, com
mic-faulting, dolc cls,
com cal-sil
cross-cutting veining,
carb meta-sltst-dolc
mtx, no cut, no flor.

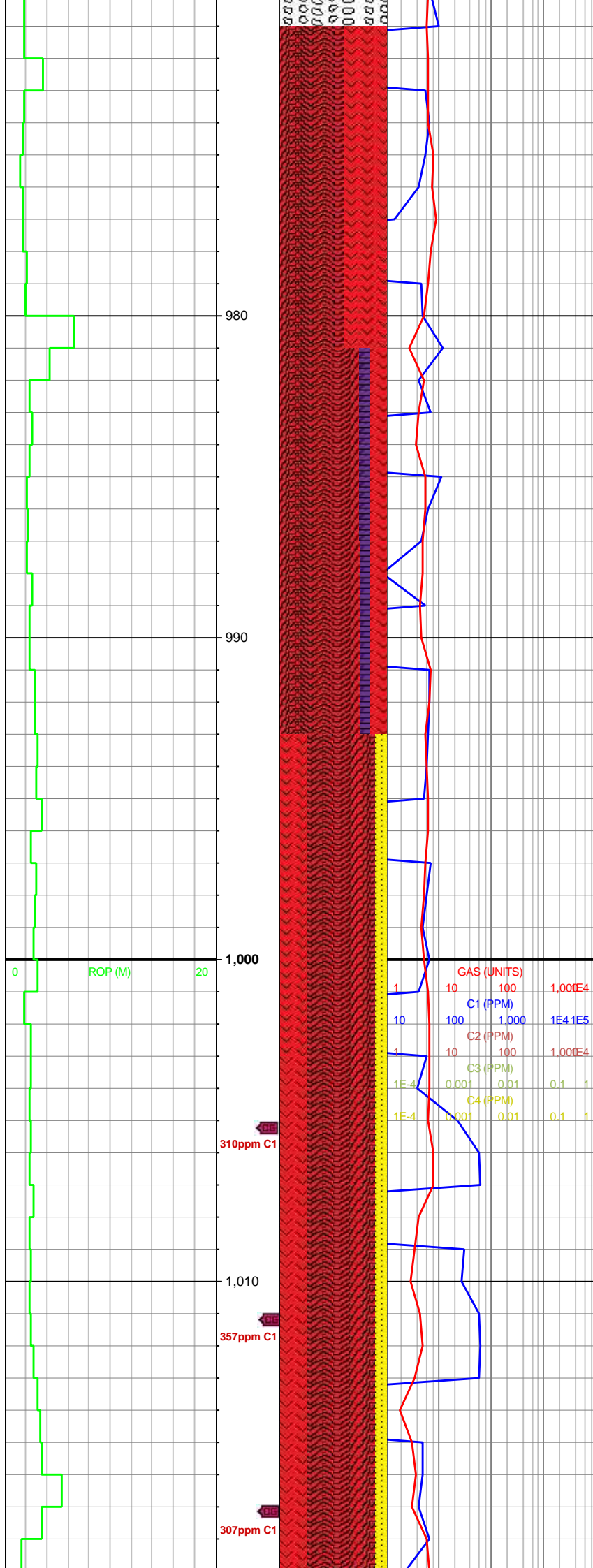
BRECT DOL-SLTST:
hd, dolc, bndd, brect,
dolc cls, carb meta-sltst
infill/mtx, tr pyr on frac
surfaces, com carb
banding, mic-faulted
and convoluted
banding, lt gy to lt brn,
no cut, no flor.

DOLC SLTST: dk gy to
brn to blk, hd, dolc,
disrupted slumped
bedding, extensive
mic-faulting, com carb
sltst bands, fy lam,
carb/bituminous frac
surf coatings, no flor,
mky cut, mnr pyr.

BREC: Lt gy to blk to
brn, dolc cls in a f earthy
lt brn sltst mtx, hd, sl
silicified, sub-ang to
sub-rnd cls, predy mtx
sup, occ sec carb infill,
mnr cal veining, pyr on
frac surfaces,
disseminated pyr to
1%, no cut, no flor,
ferromangan alteration
halo?



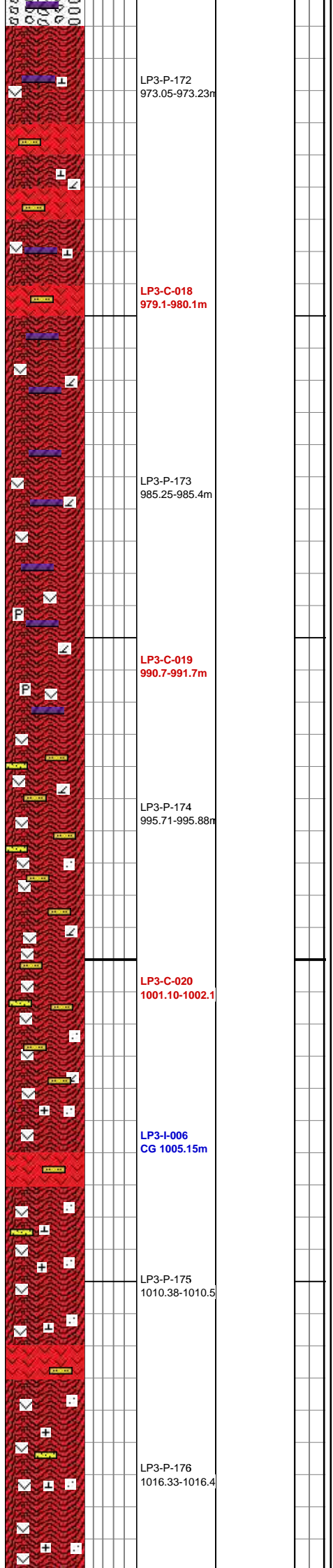
- LP3-P-160
923.15-923.25m
- LP3-C-016
924.1-925.1m
- LP3-P-161
928.4-928.41m
- LP3-P-162
932.6-932.75m
- LP3-P-163
934.5-934.65m
- LP3-P-164
938.87-938.94m
- LP3-P-165
940.5-940.72m
- LP3-P-166
944.83-945.03m
- LP3-P-167
946.76-946.93m
- LP3-C-017
950.29-951.21m
- LP3-P-168
952.5-952.55m
- LP3-P-169
955.3-955.4m
- LP3-P-170
961.98-962.27m
- LP3-P-171
967.11-967.21m



ALT TUF SLTST:
Interbedded, earthy dk red k-feld alt sltst bands, pale gn to dk bottle gn glauc tuf bands, slumping flt strucs, commonly lam, occ flame strucs, slaty to phyllitic, occ cal-sil cross-cutting veining, mod hd, tuf infill ip, dolc ip, no cut, no flor.

ALT TUF SLTST: Lam, earthy med to dk red, occ pale to dk bottle gn glauc tuf bands, com dolc banding/interbeds, occ slumping flt strucs, phyllitic, no mineralisation, no cut, no flor, thin (1mm) cross-cutting cal veins, tr pyr blebs

ALT TUF SLTST: Lam, earthy med to dk red, occ pale to dk bottle gn glauc tuf bands, com dolc banding/interbeds, occ slumping flt strucs, phyllitic, no mineralisation, no cut, no flor, thin (1mm) cross-cutting cal veins, com xbdd, f sdy graded bdg, mud cracks filled, sedy



LP3-P-172
973.05-973.23m

LP3-C-018
979.1-980.1m

LP3-P-173
985.25-985.4m

LP3-C-019
990.7-991.7m

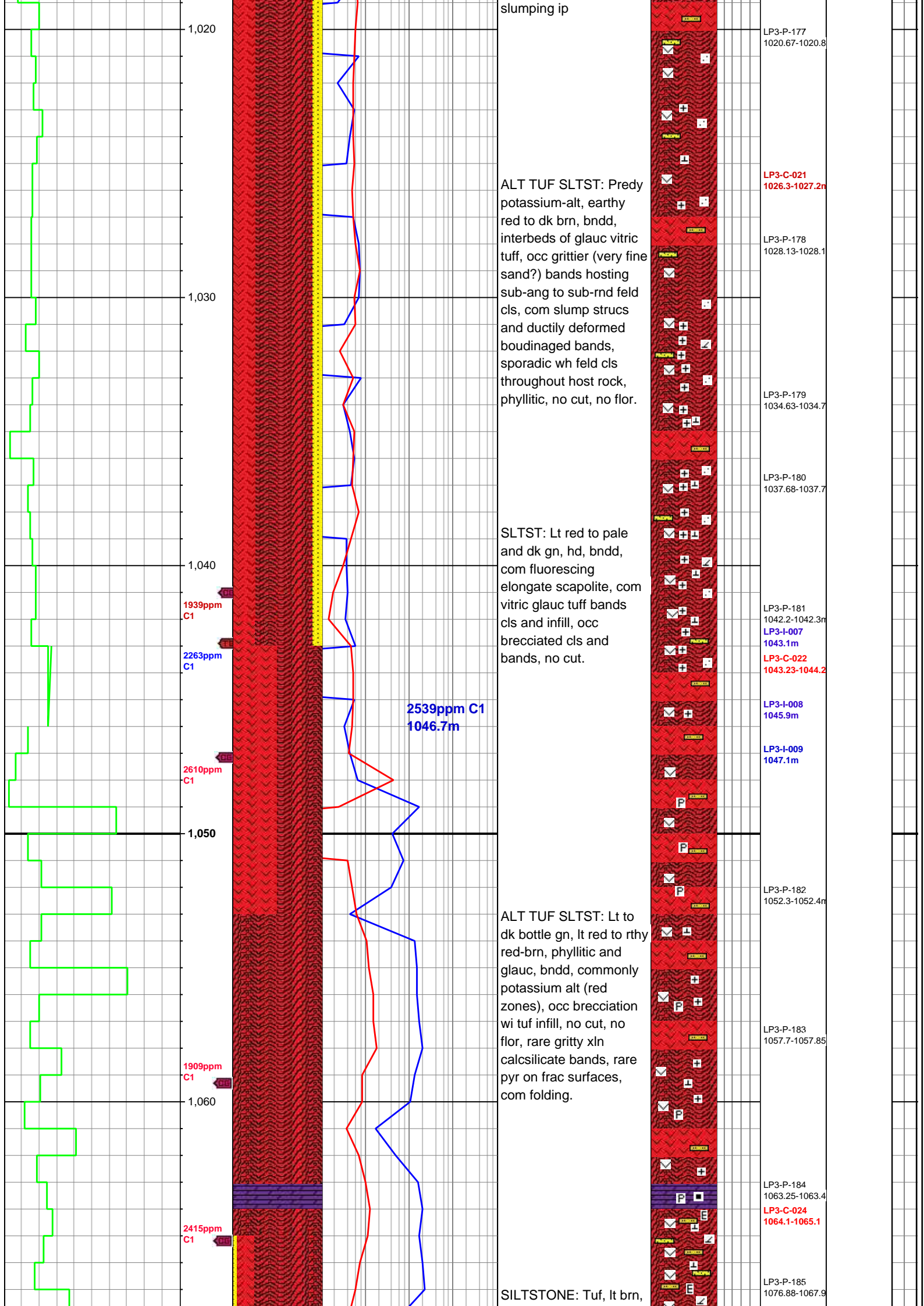
LP3-P-174
995.71-995.88m

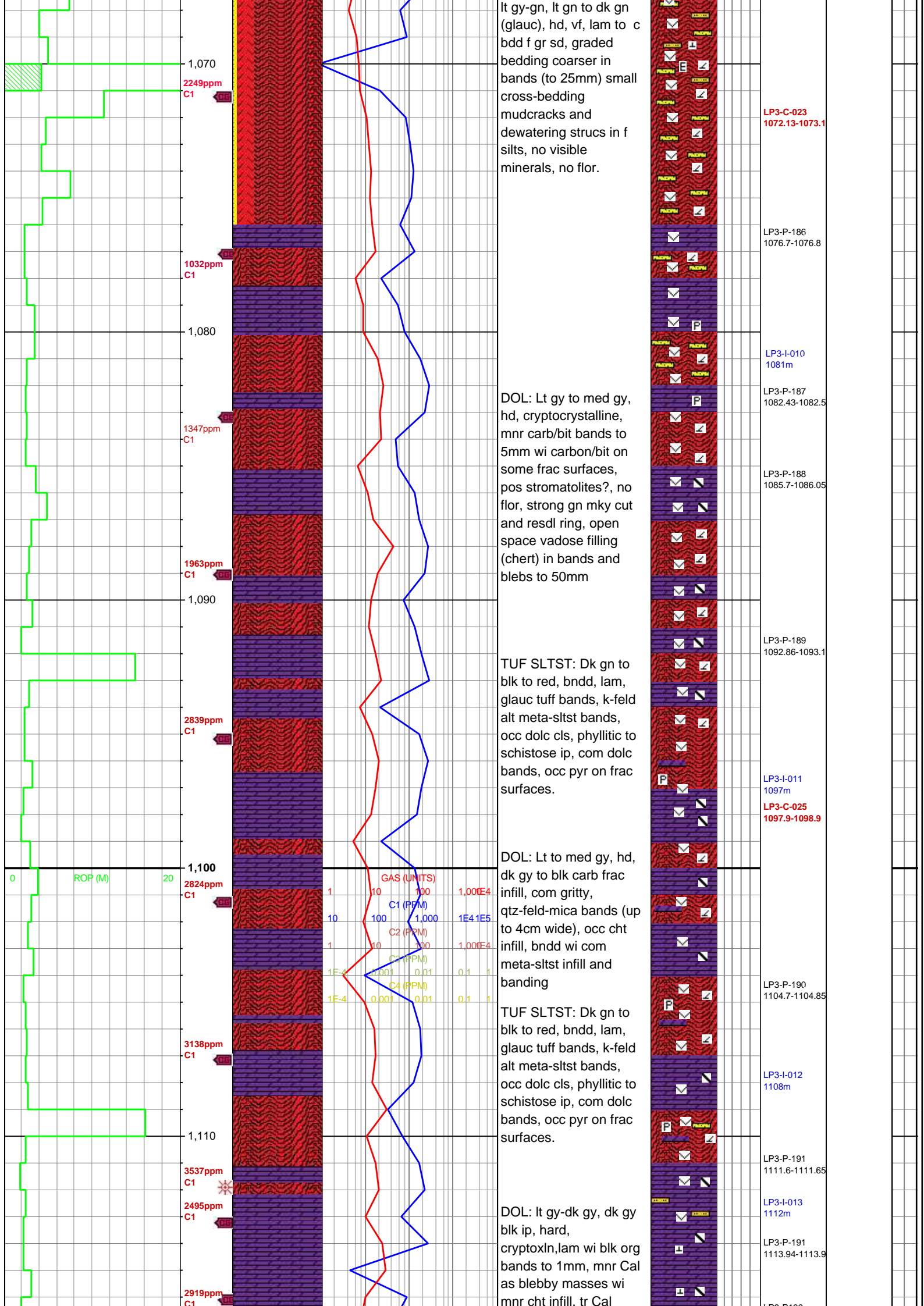
LP3-C-020
1001.10-1002.1

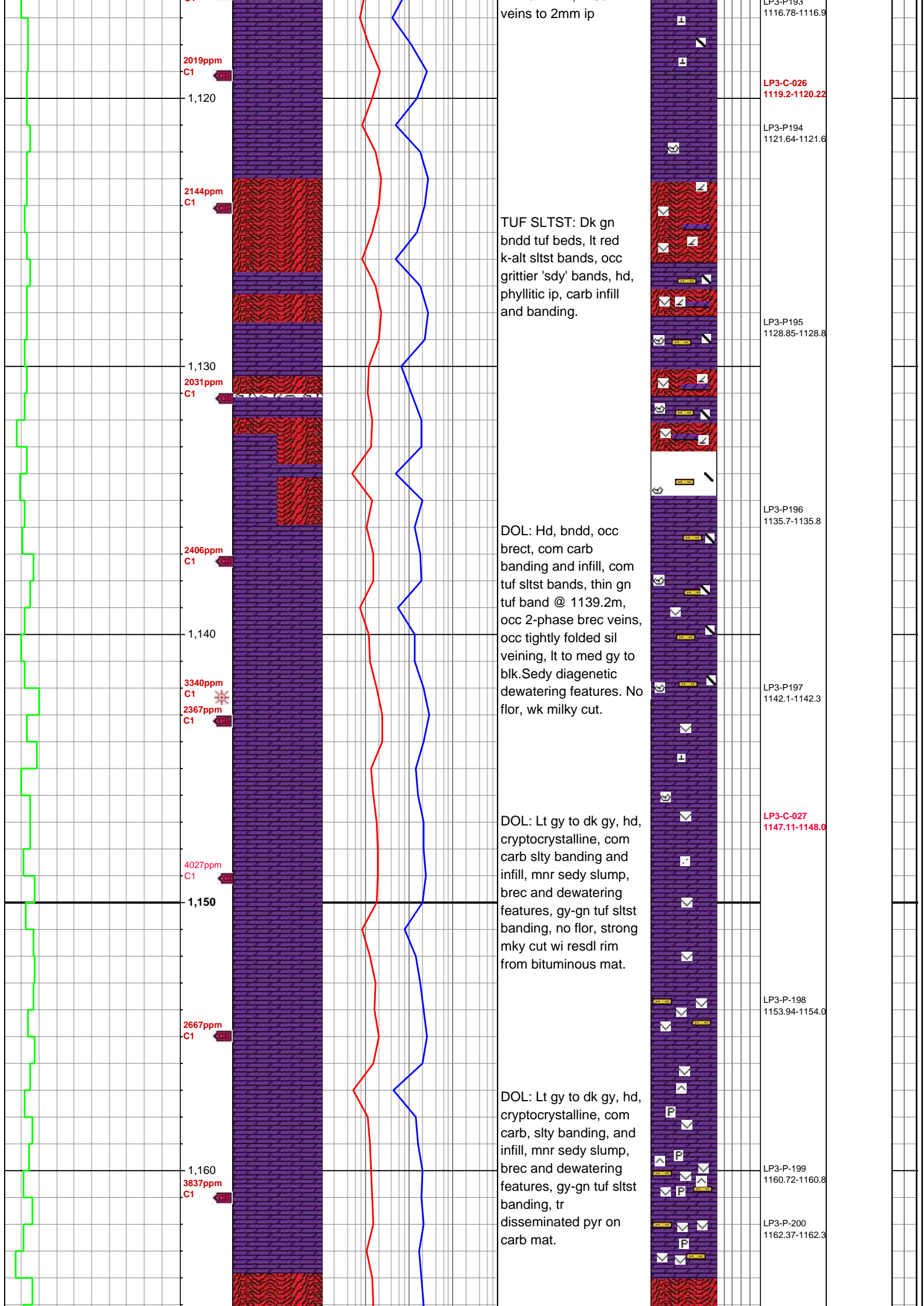
LP3-I-006
CG 1005.15m

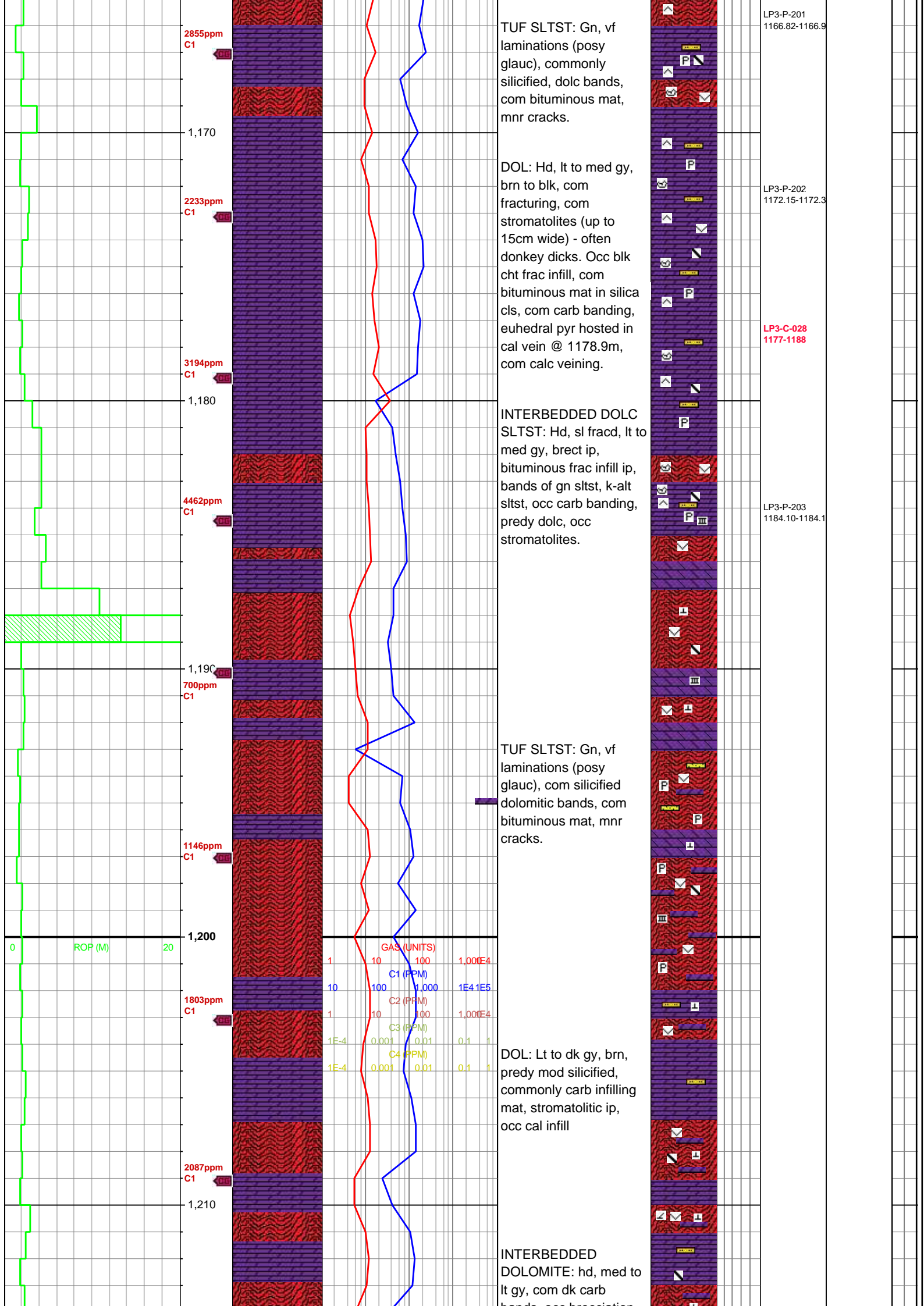
LP3-P-175
1010.38-1010.5

LP3-P-176
1016.33-1016.4









2855ppm
C1

2233ppm
C1

3194ppm
C1

4462ppm
C1

1,190
700ppm
C1

1146ppm
C1

1803ppm
C1

2087ppm
C1

TUF SLTST: Gn, vf laminations (posy glauc), commonly silicified, dolc bands, com bituminous mat, mnr cracks.

DOL: Hd, lt to med gy, brn to blk, com fracturing, com stromatolites (up to 15cm wide) - often donkey dicks. Occ blk cht frac infill, com bituminous mat in silica cls, com carb banding, euhedral pyr hosted in cal vein @ 1178.9m, com calc veining.

INTERBEDDED DOLC SLTST: Hd, sl fracd, lt to med gy, brect ip, bituminous frac infill ip, bands of gn sltst, k-alt sltst, occ carb banding, predy dolc, occ stromatolites.

TUF SLTST: Gn, vf laminations (posy glauc), com silicified dolomitic bands, com bituminous mat, mnr cracks.

DOL: Lt to dk gy, brn, predy mod silicified, commonly carb infilling mat, stromatolitic ip, occ cal infill

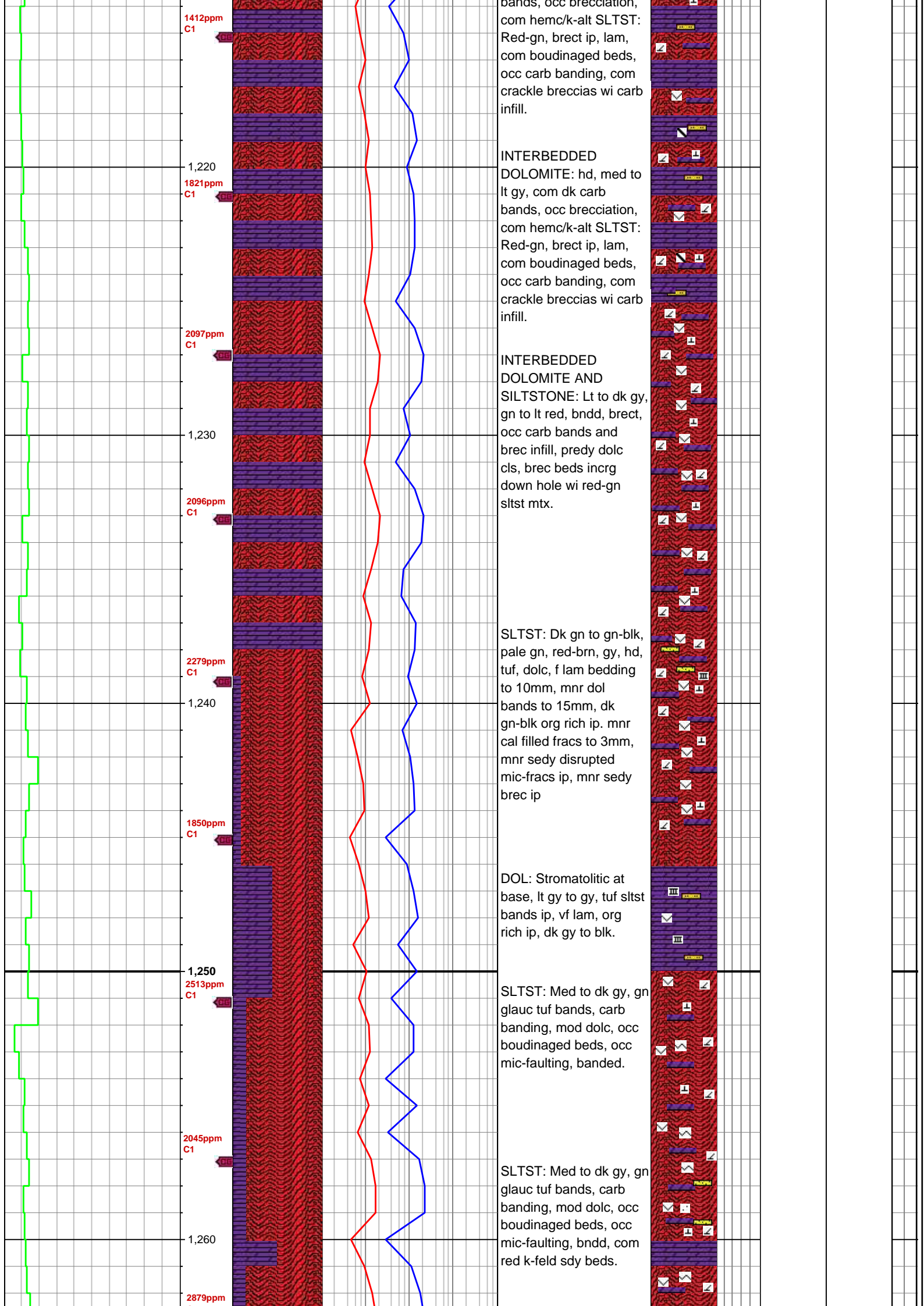
INTERBEDDED DOLOMITE: hd, med to lt gy, com dk carb bands, occ basification

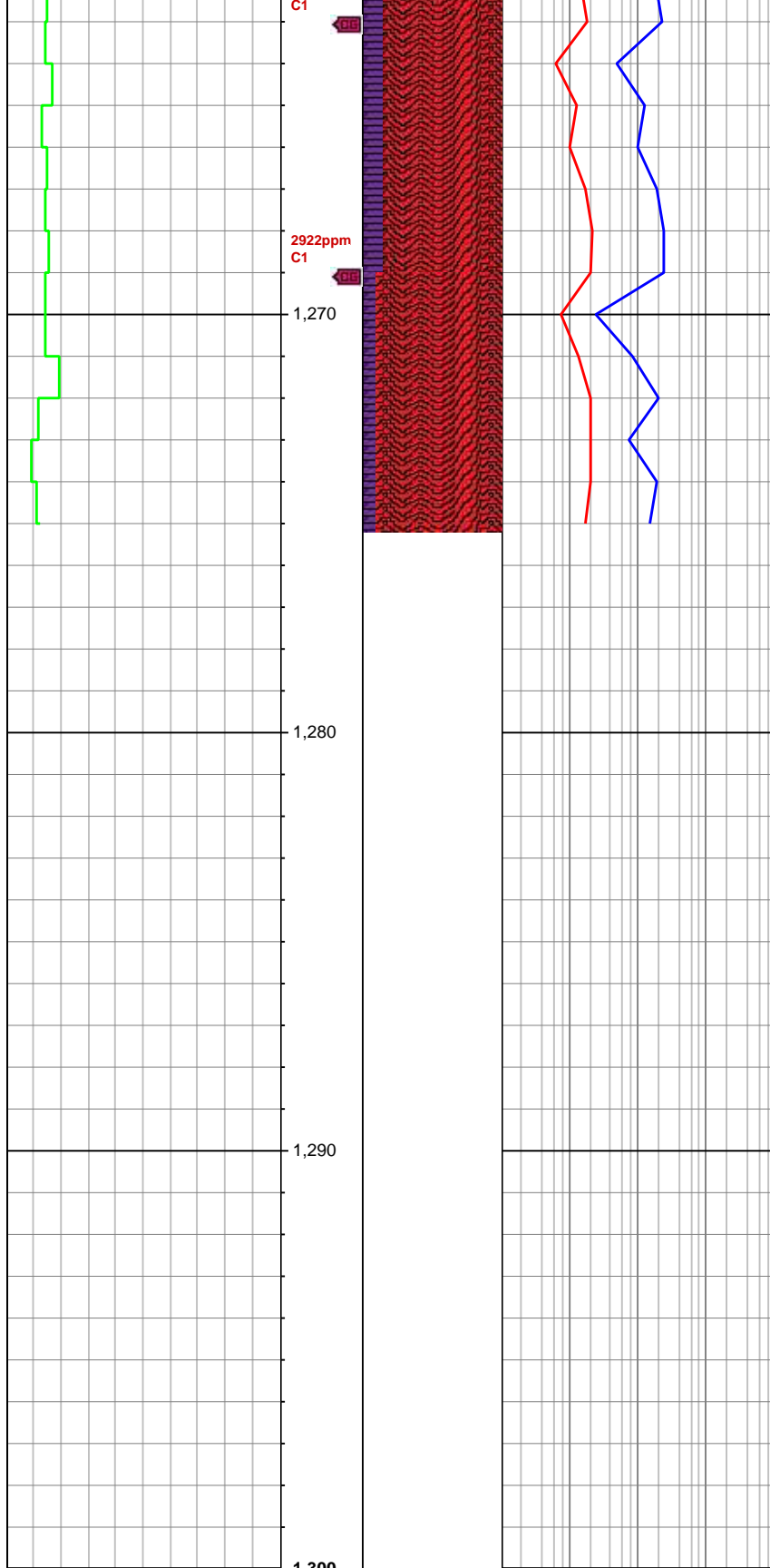
LP3-P-201
1166.82-1166.9

LP3-P-202
1172.15-1172.3

LP3-C-028
1177-1188

LP3-P-203
1184.10-1184.1





SLTST: Med to dk gy, gn
glauc tuf bands, carb
banding, mod dolc, occ
boudinaged beds, occ
mic-faulting, bndd, com
red k-feld sdy beds.

TD: 1275.19m

