



Oil & Gas Ltd.

Scale 1:240 (5"=100') Imperial
Measured Depth Log

Well Name: Belford 24-17
 Location: SESW Sec 17-T13S-R47W, Cheyenne County, Colorado
 License Number: API: 05-017-07719
 Spud Date: 09/04/12
 Surface Coordinates: 686' FSL & 1605' FWL
 Lat: 38.91195, Long: -102.69902
 Bottom Hole Coordinates: Same
 Region: Wildcat
 Drilling Completed: 09/23/12
 Ground Elevation (ft): 4393'
 K.B. Elevation (ft): 4404'
 Logged Interval (ft): 4450' To: 5682'
 Total Depth (ft): 5671' LTD
 Formation: Morrow, (TD in Spergen).
 Type of Drilling Fluid: LSND, Hydro Resources

Printed by STRIP.LOG from WellSight Systems 1-800-447-1534 www.WellSight.com

OPERATOR

Company: Vecta Oil & Gas Ltd
 Address: 575 Union Blvd, Suite 208
 Lakewood, CO 80228
 Tel. (303) 945-2860

GEOLOGIST

Name: Ryan Scribner
 Company: Goolsby Brothers and Associates
 Address: 575 Union Blvd., Suite 208
 Lakewood, CO 80228

Comments

- 1) 8 5/8" csg set @ 434' KB.
- 2) Contractor: Integrity Drilling Rig #69. Toolpusher: Bob Kliesin, Company Man: Larry Schneider
- 3) Plugged and abandoned on September 25, 2012.

ROCK TYPES

ss_fg+
 Carb sh
 Anhy
 Bent
 Brec
 Cht

Clyst
 Coal
 Congl
 Dol
 Gyp
 Igne

Lmst
 Meta
 Mrlst
 Salt
 Shale
 Shcol

Shgy
 Ss
 Till
 sltst
 anhy1
 chalk

ACCESSORIES

MINERAL

Pyr
 Anhy
 Arggrn
 Arg
 Bent
 Bit
 Brecfrag
 Calc
 Carb
 Chtdk
 Chtlt
 Dol
 Feldspar
 Ferrpel
 Ferr
 Glau
 Gyp
 Hvymin
 Kaol

Marl
 Minxl
 Nodule
 Phos
 Pyr
 Salt
 Sandy
 Silt
 Sil
 Sulphur
 Tuff

FOSSIL

Algae
 Amph
 Belm
 Bioclst
 Brach
 Bryozoa
 Cephal

Coral
 Crin
 Echin
 Fish
 Foram
 Fossil
 Gastro
 Oolite
 Ostra
 Pelec
 Pellet
 Pisolite
 Plant
 Strom

STRINGER

Anhy
 Arg
 Bent
 Coal

Dol
 Gyp
 Ls
 Mrst
 Sltstrg
 Ssstrg

TEXTURE

Boundst
 Chalky
 Cryxln
 Earthy
 Finexln
 Grainst
 Lithogr
 Microxln
 Mudst
 Packst
 Wackest

OTHER SYMBOLS

POROSITY TYPE

Earthy
 Fenest
 Fracture
 Inter
 Moldic
 Organic
 Pinpoint
 Vuggy

Moderate
 Poor

ROUNDING

Rounded
 Subrnd
 Subang
 Angular

OIL SHOWS

Even
 Spotted

near even
 Ques
 Dead
 vspotty

INTERVALS

Core
 Dst
 casing

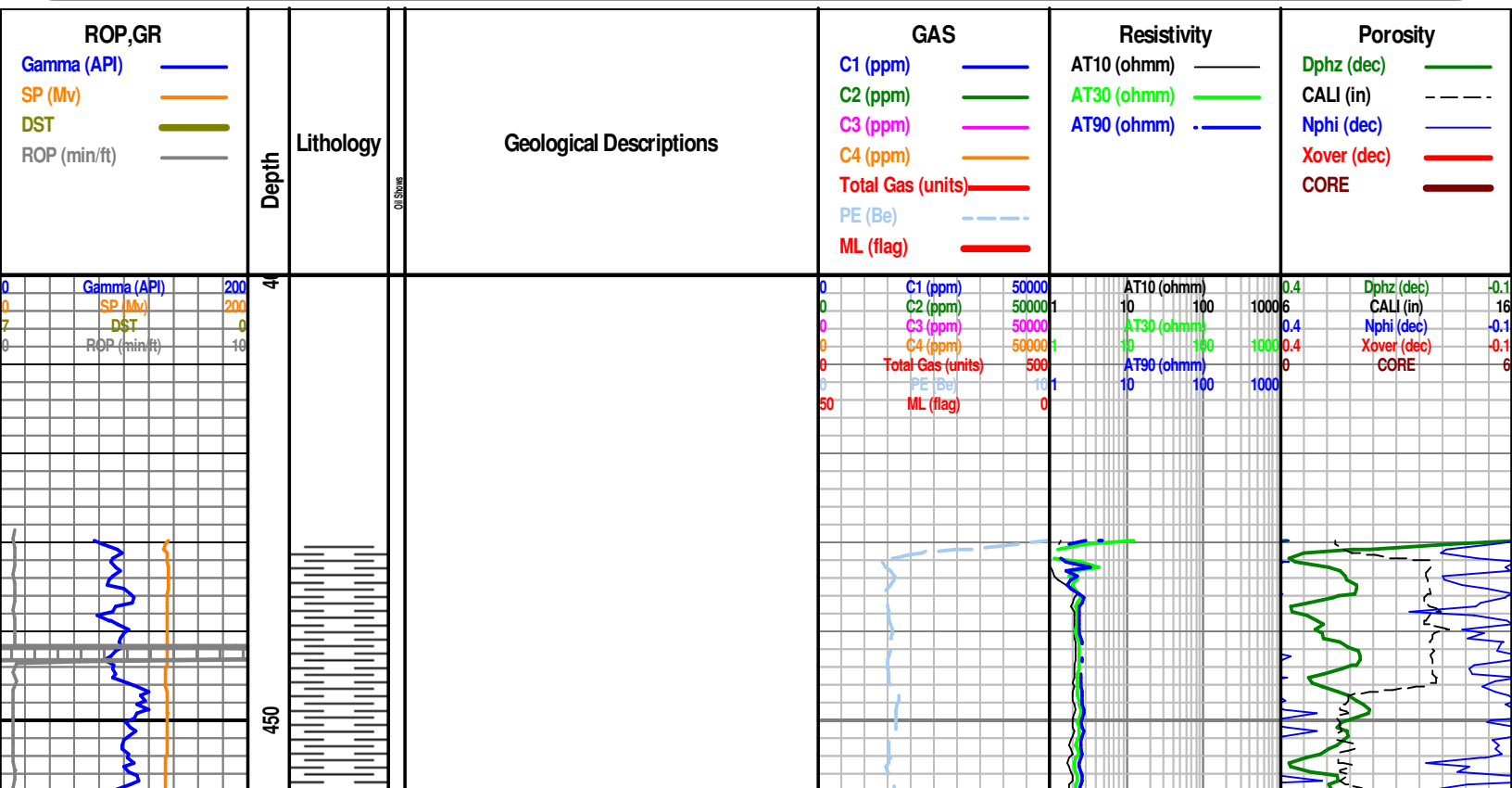
Sidewall
 New bit casingr
 casing
 Survey
 Off bottom conn
 perfs
 Survey(red)

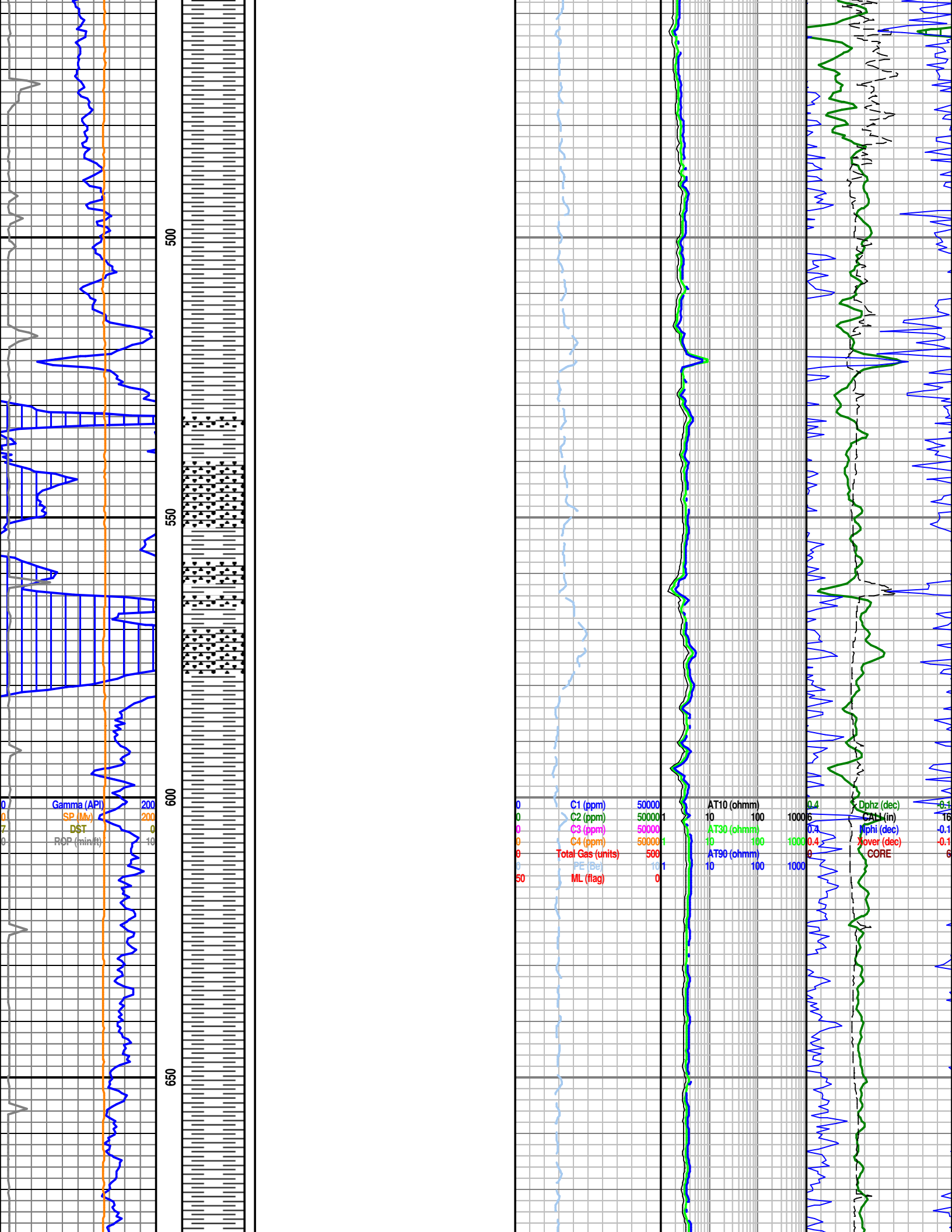
SORTING

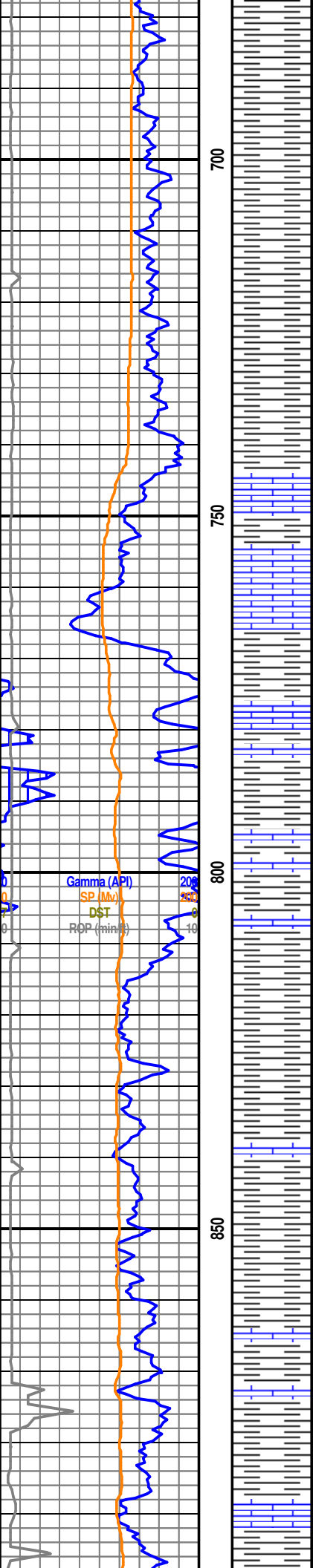
Well

EVENTS

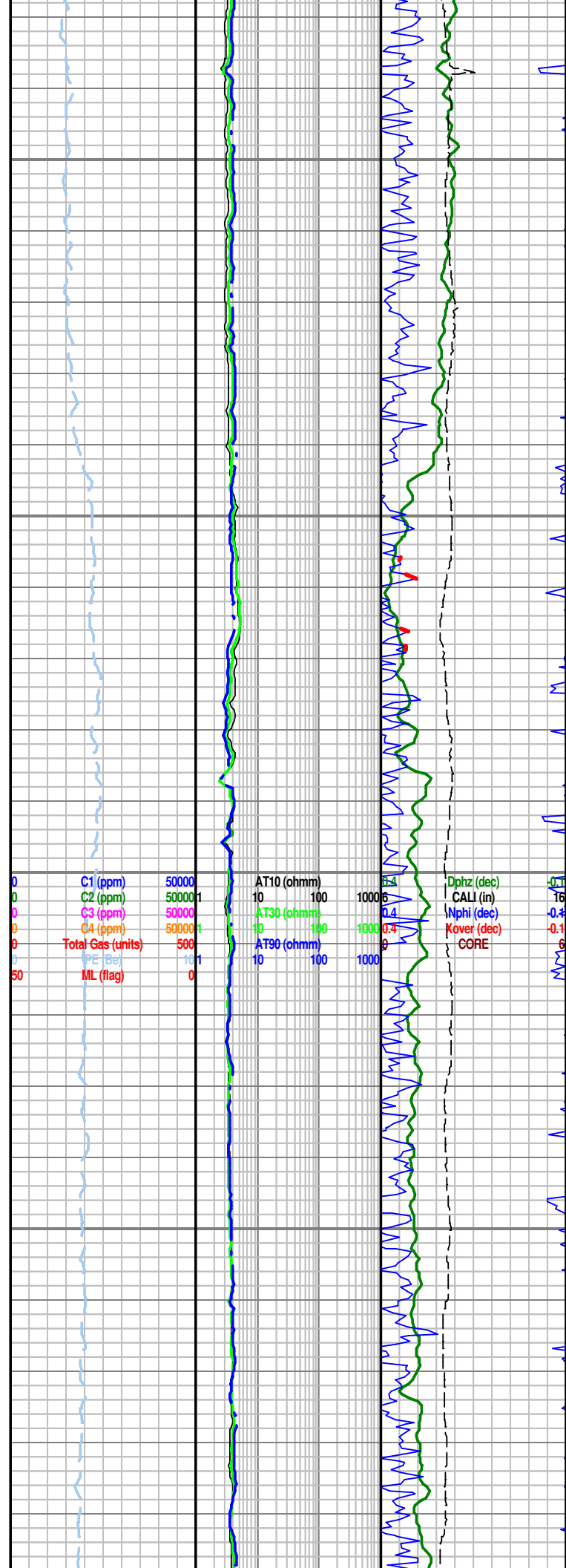
Rft

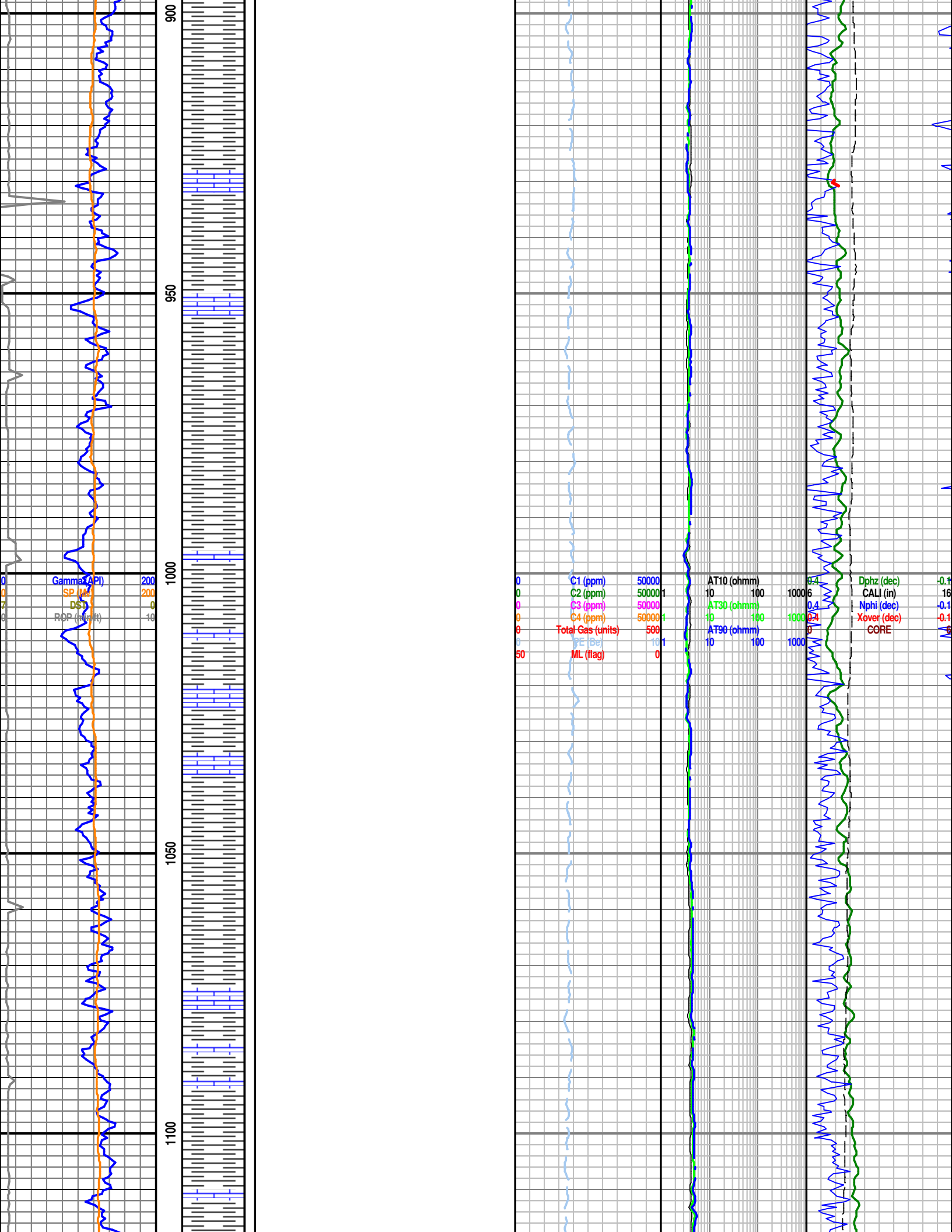


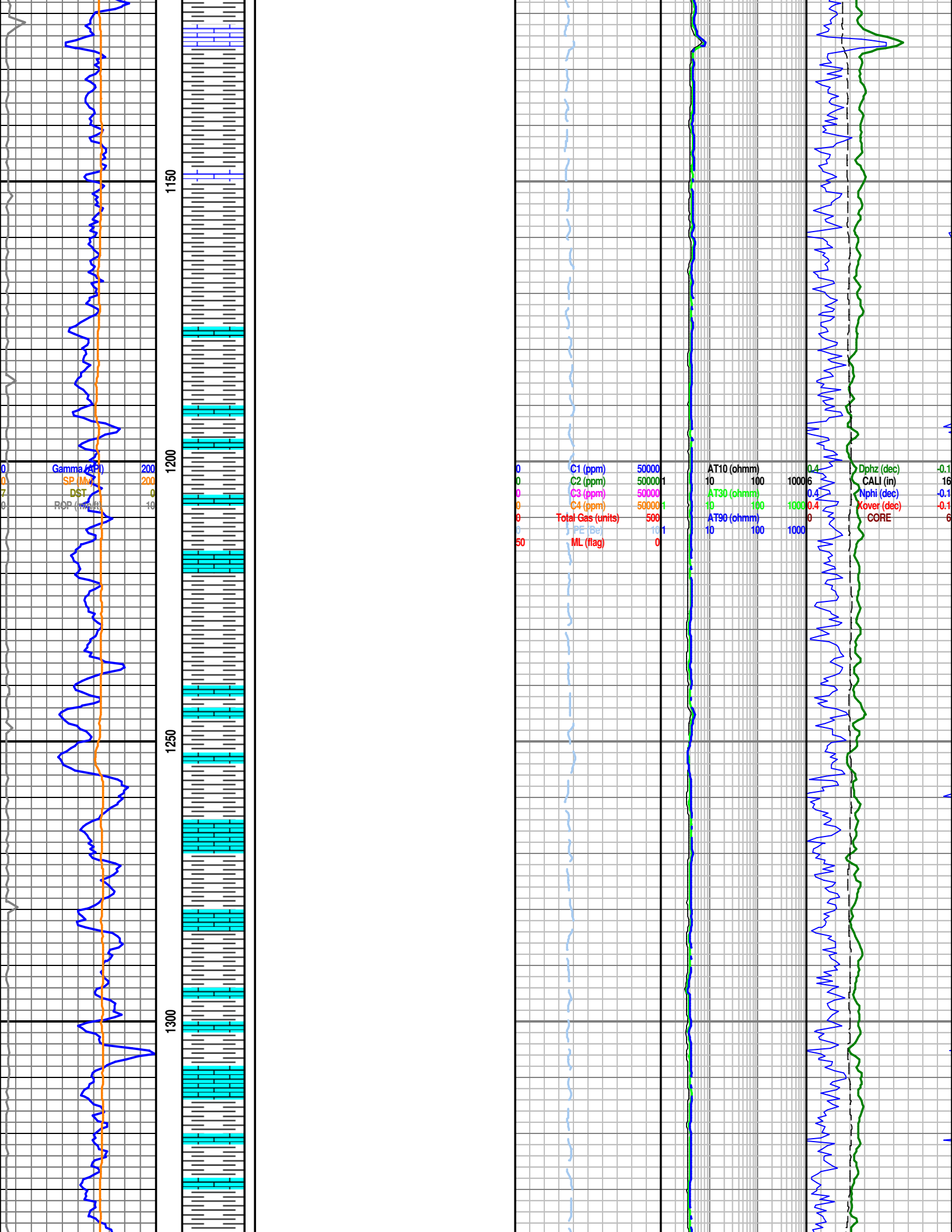


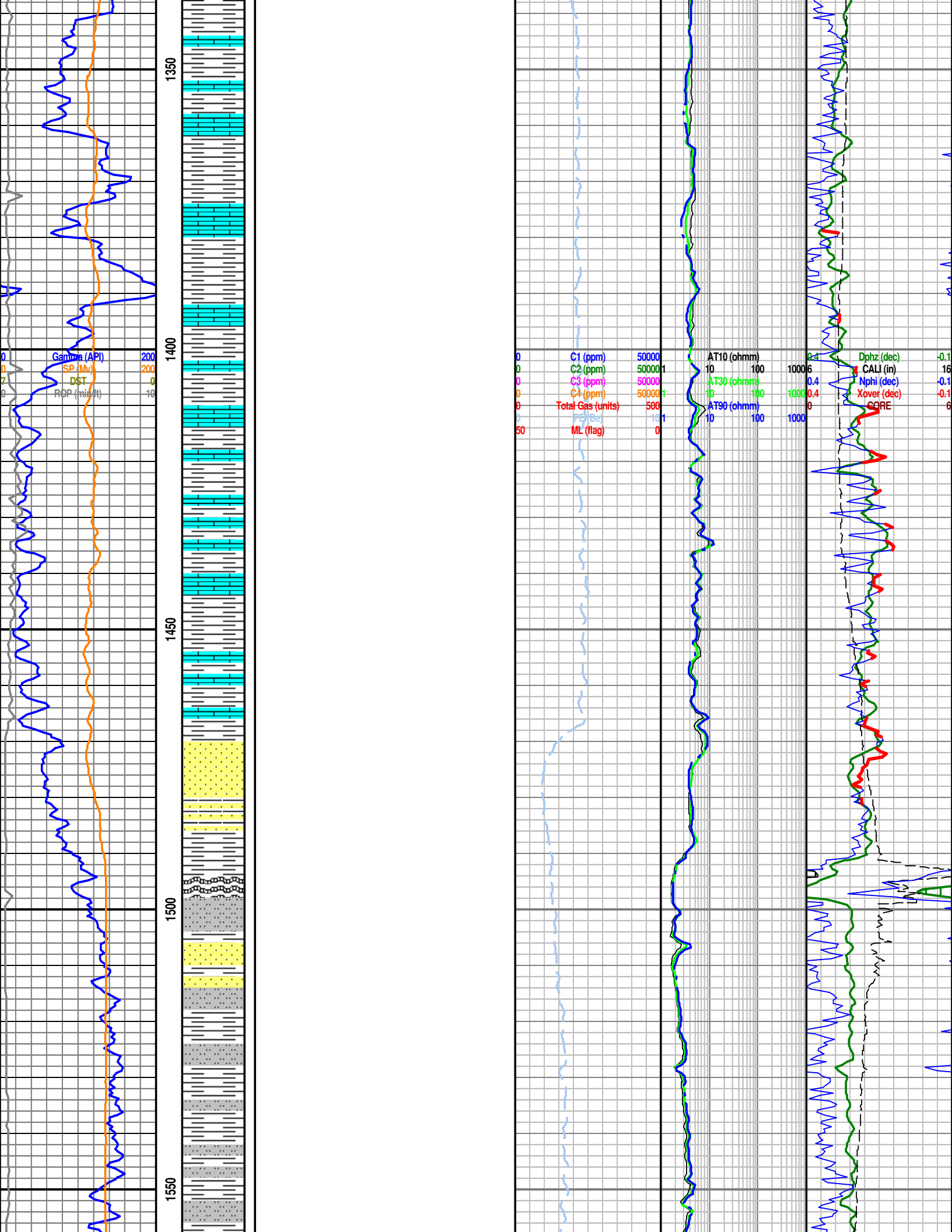


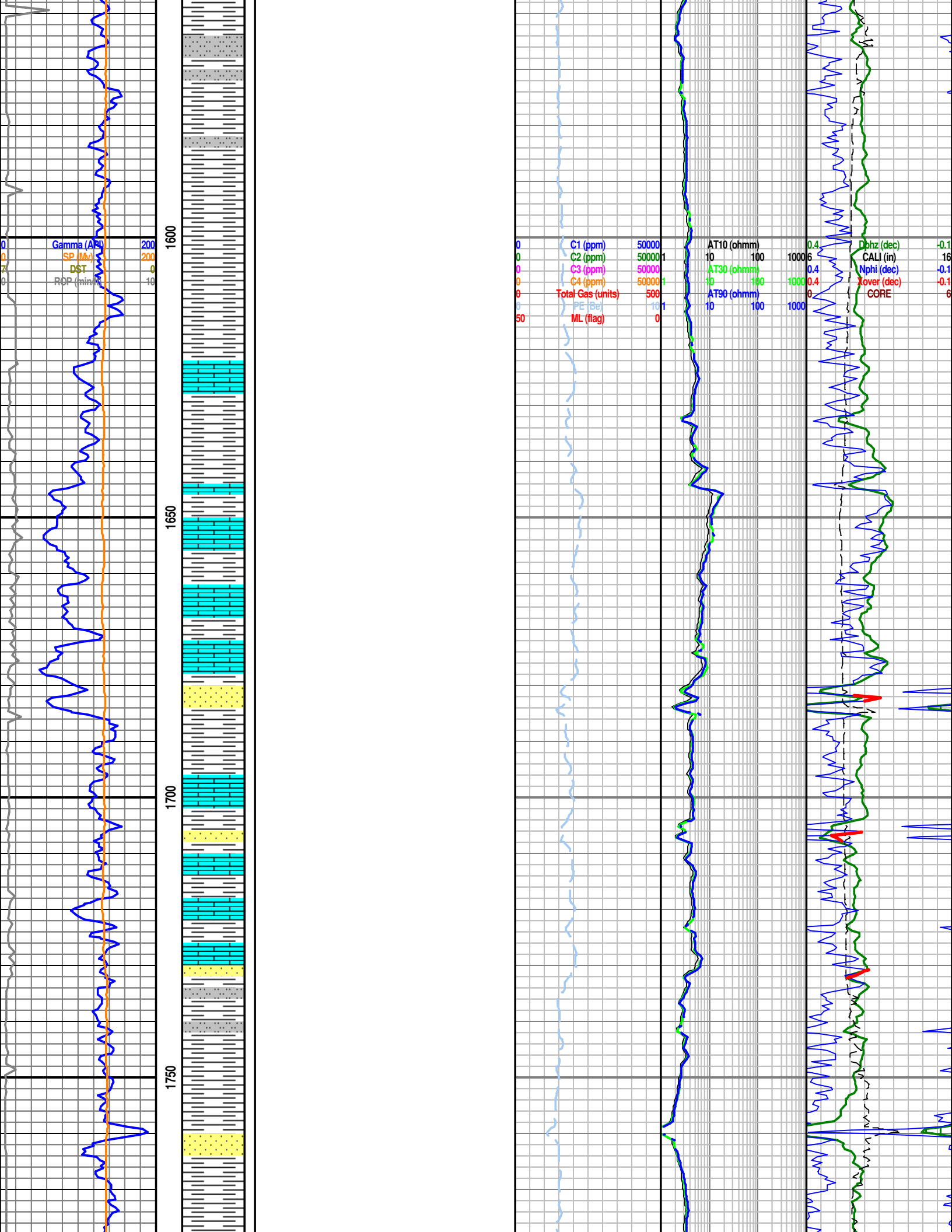
Niobrara @ log 744' (+3660)

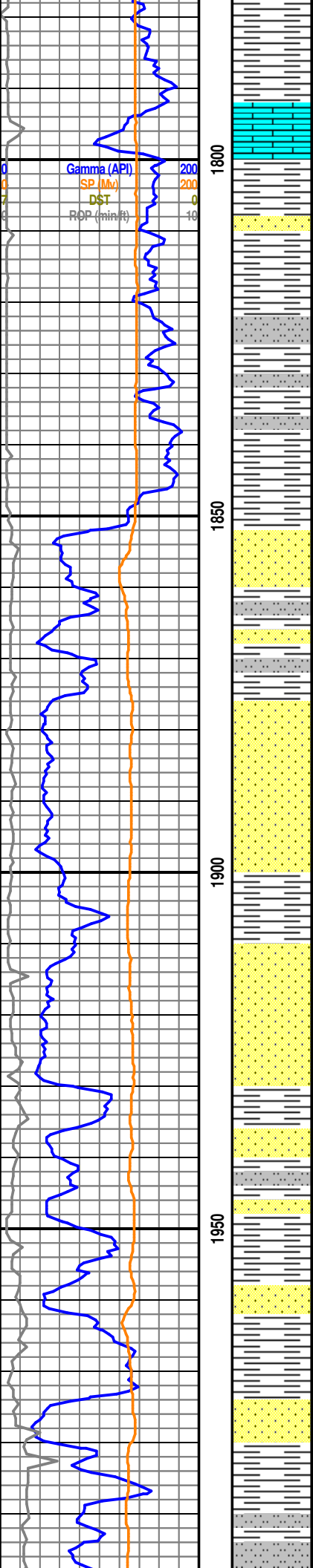




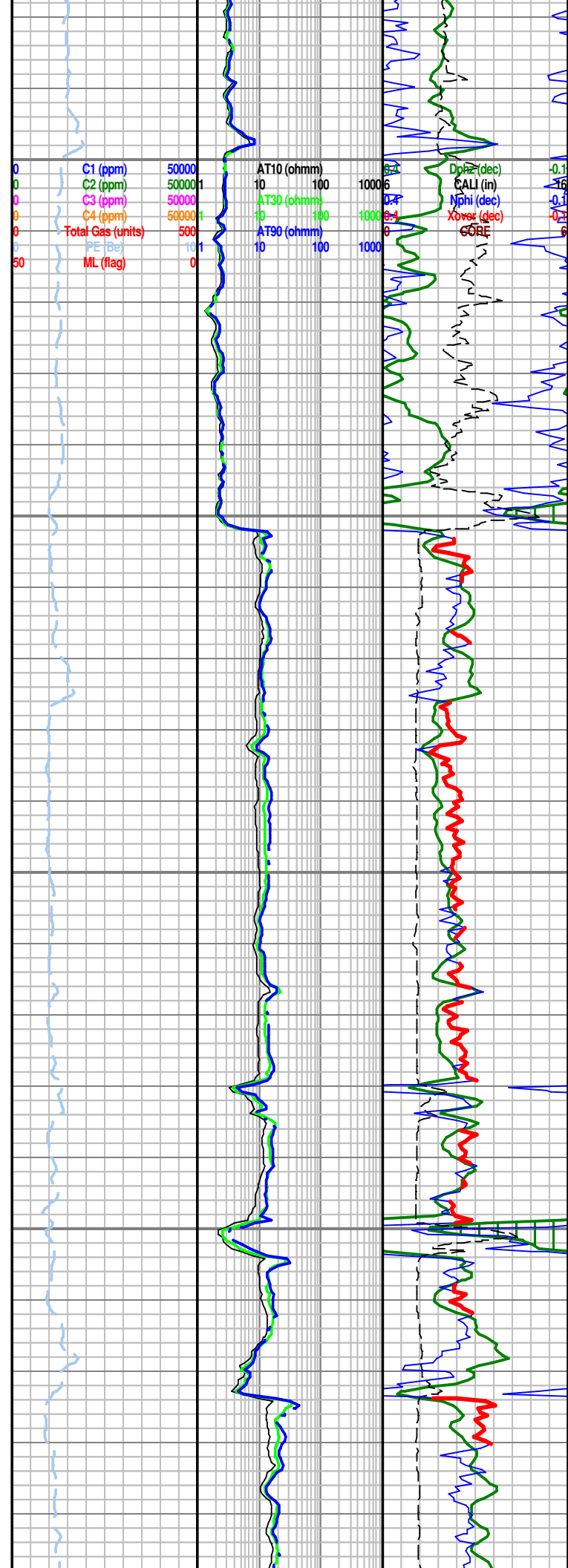


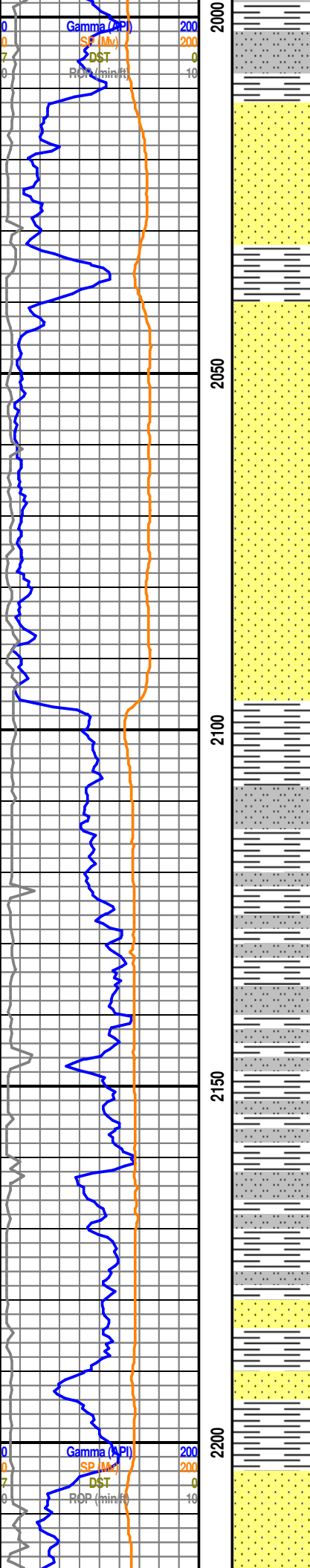




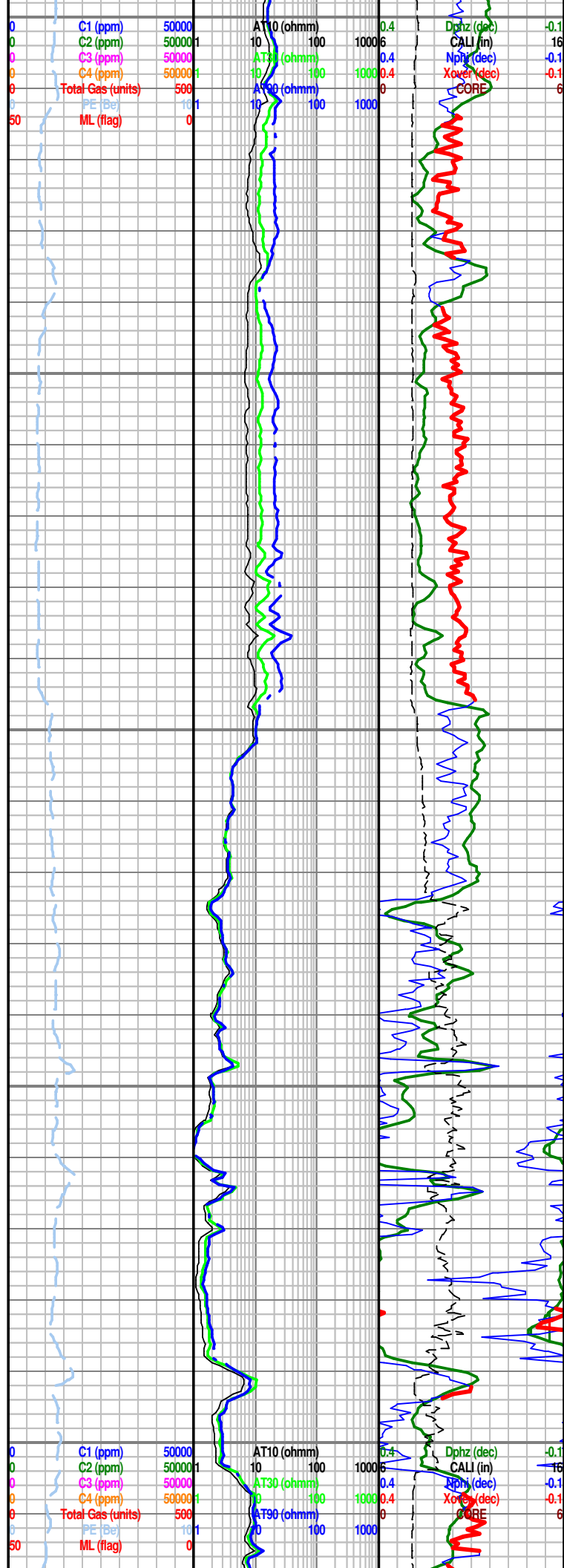


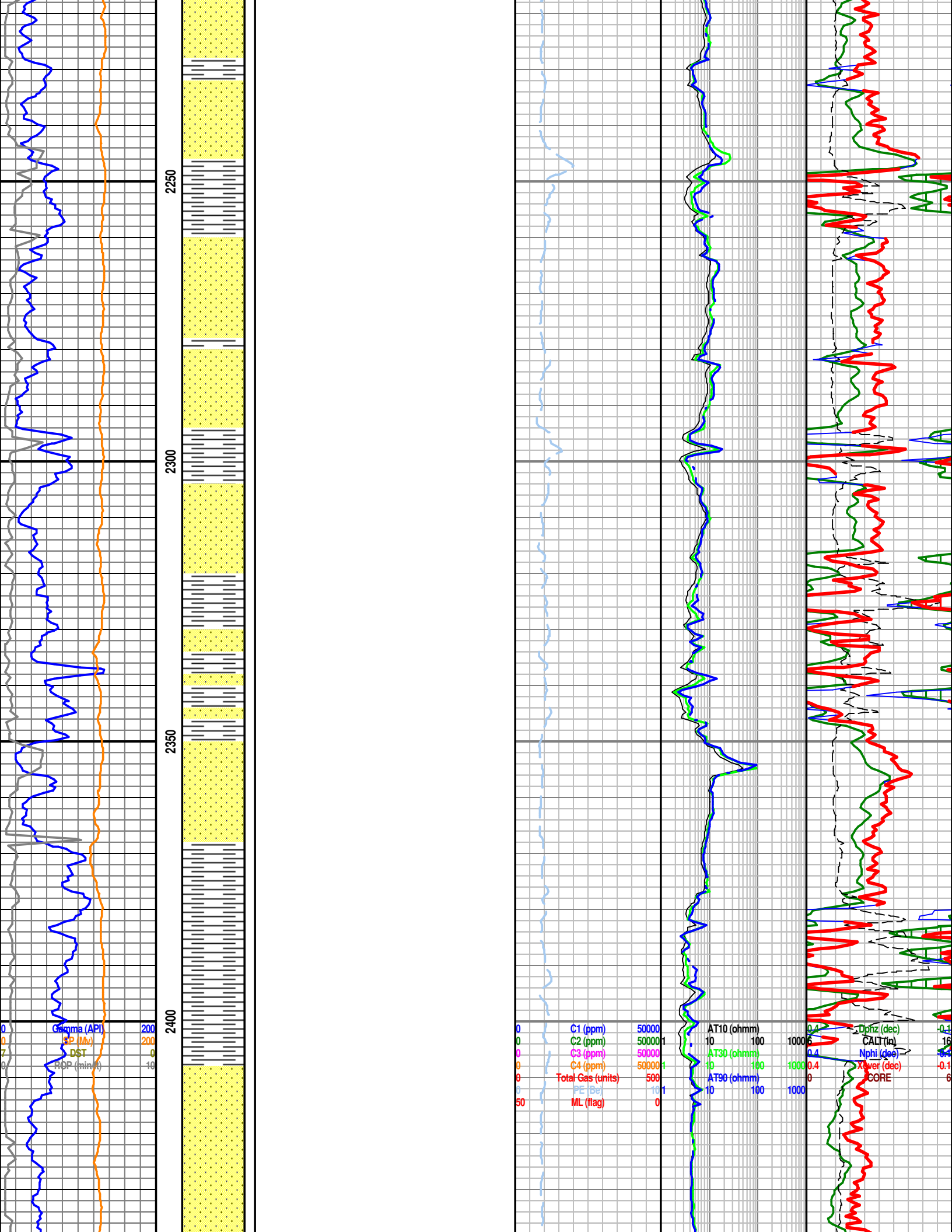
Dakota SS @ log 1852' (+2552)

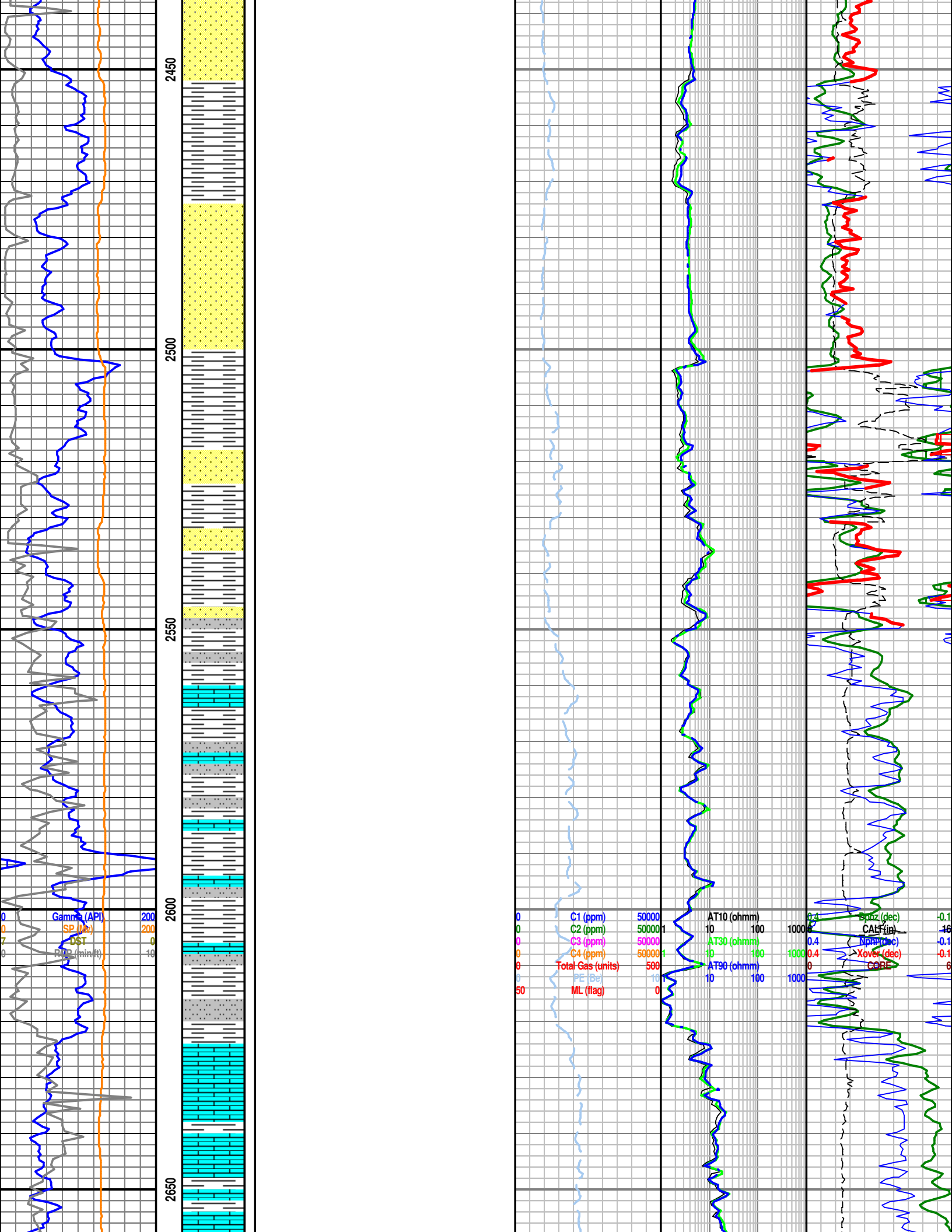


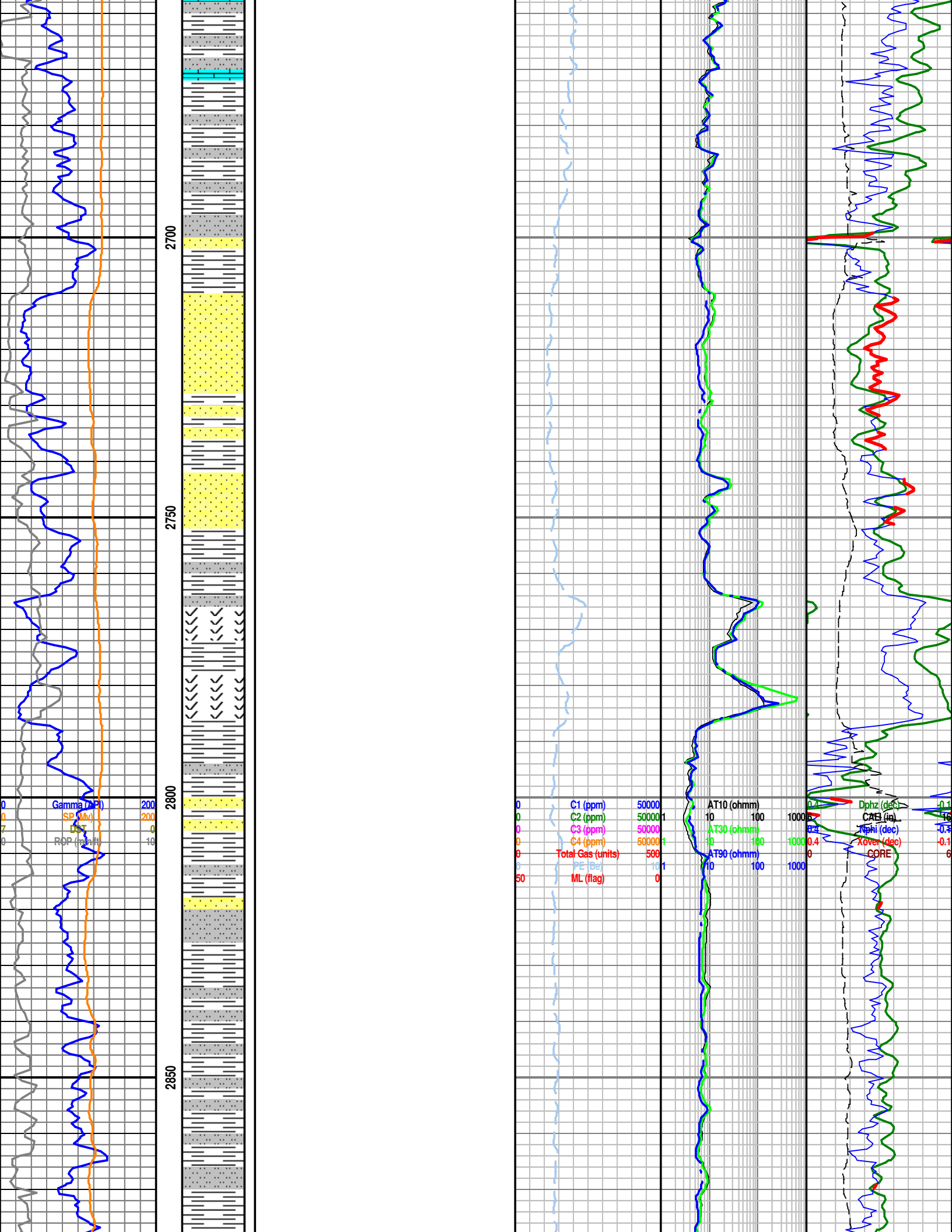


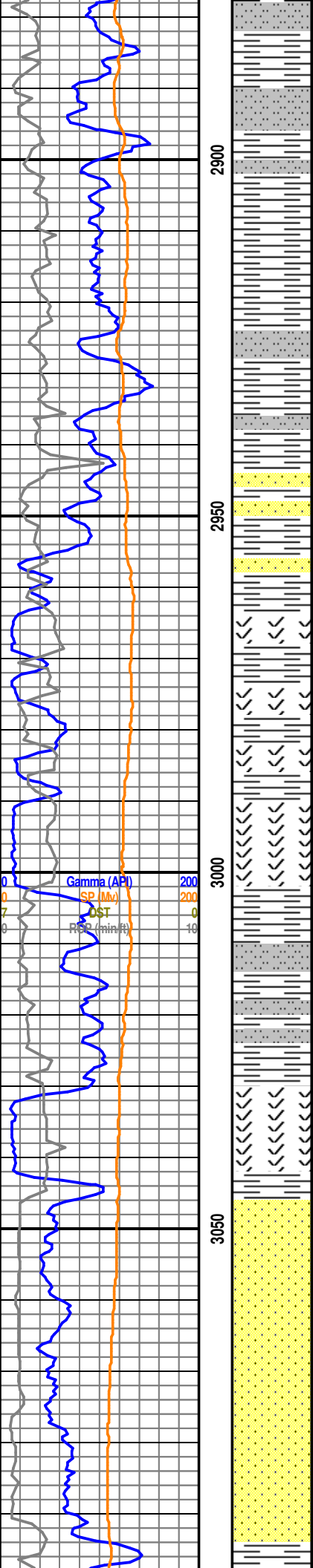
Cheyenne SS @ log 2204' (+2000)



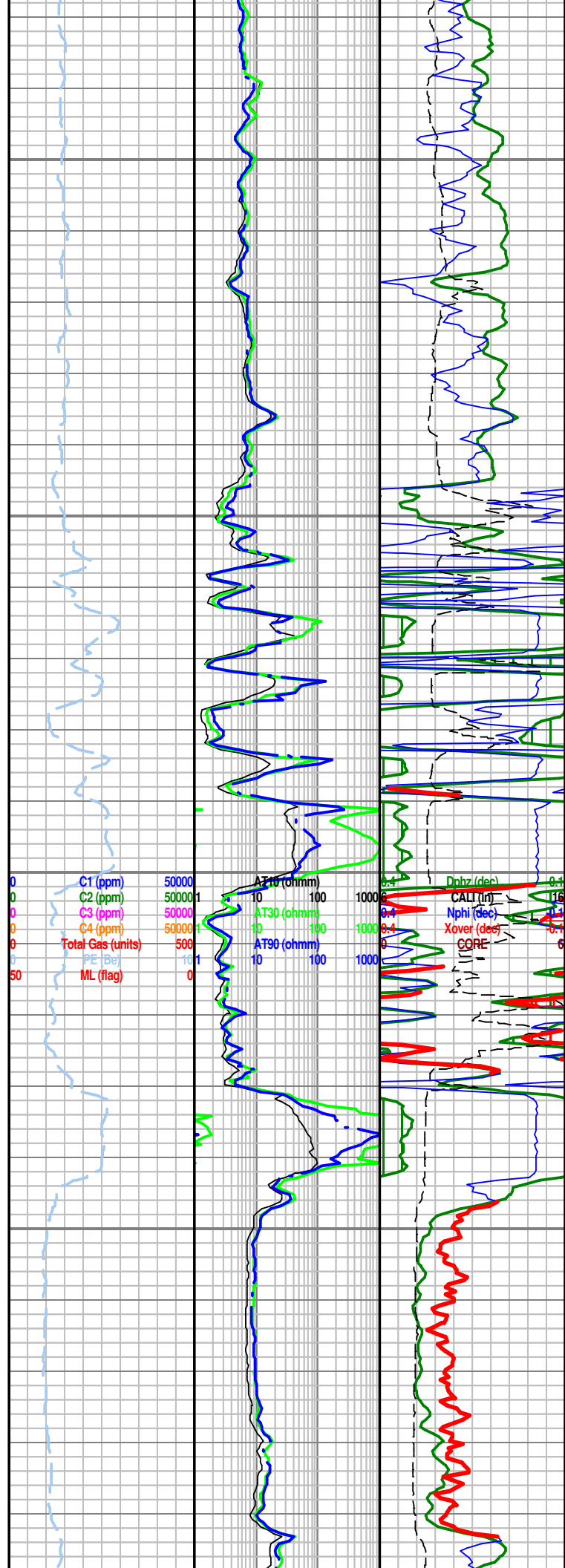


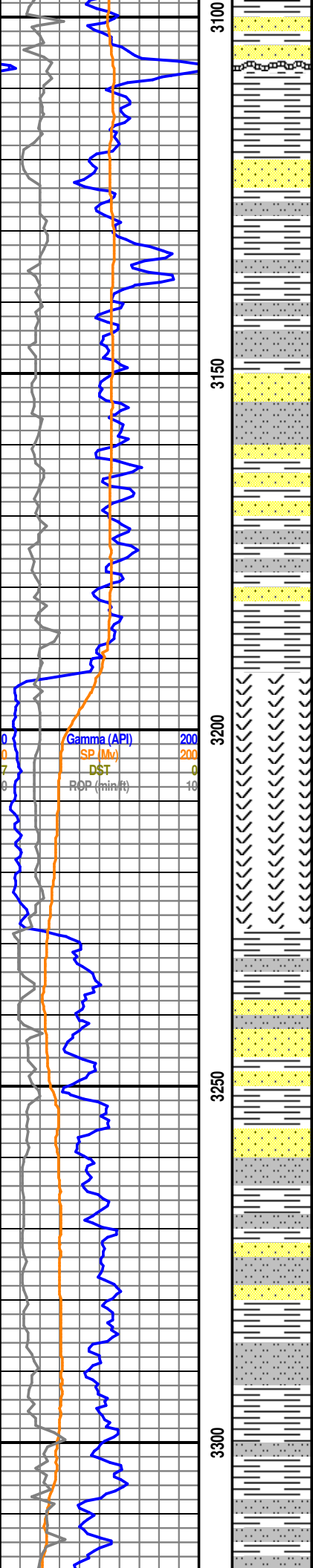




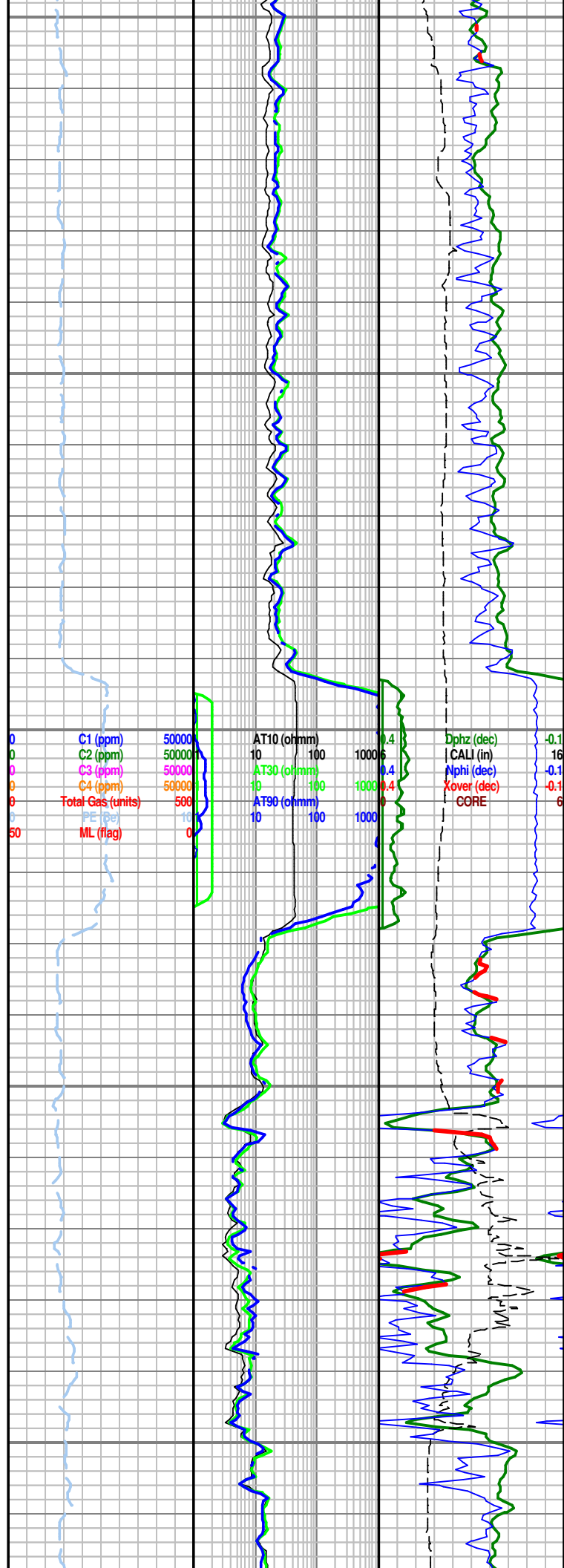


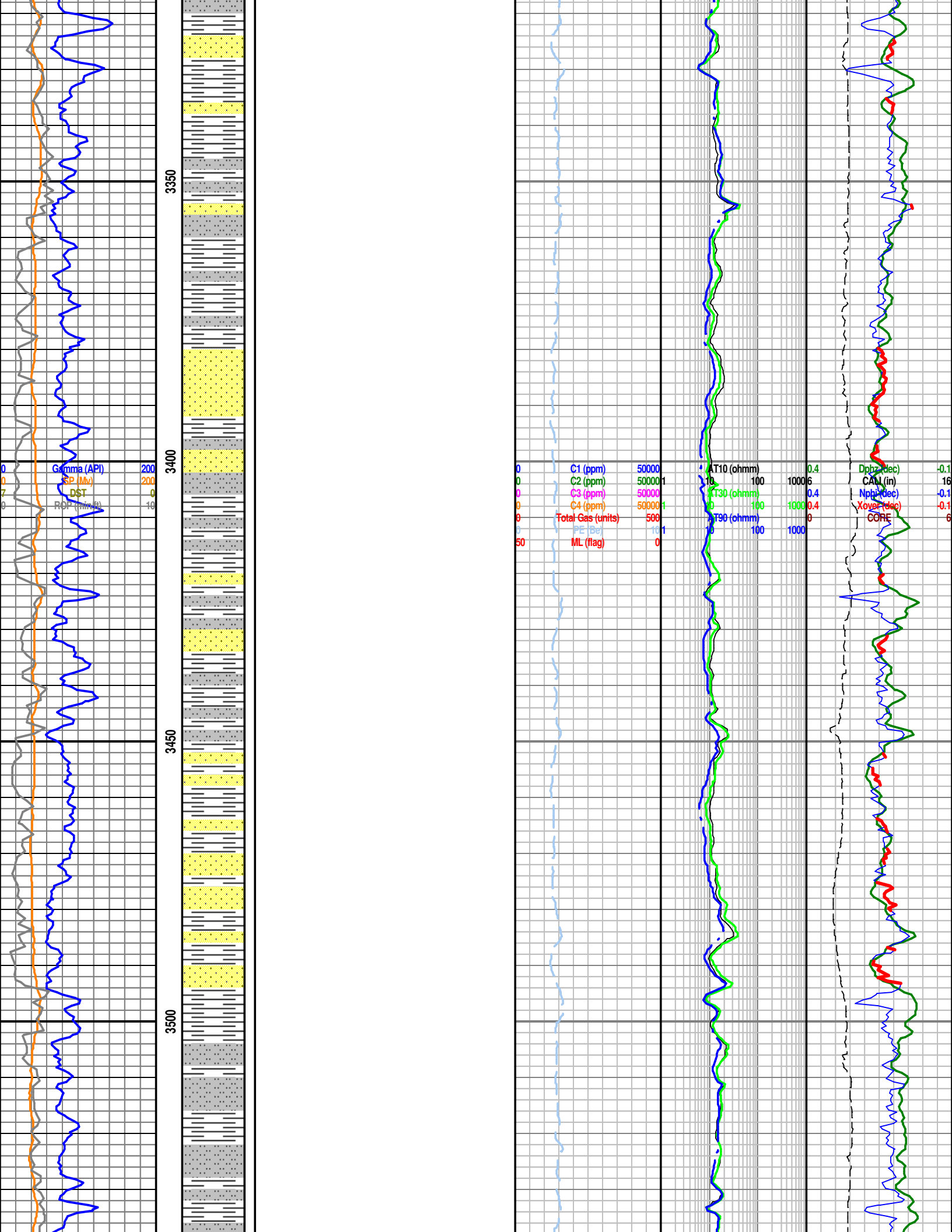
Blaine @ log 2964' (+1440)

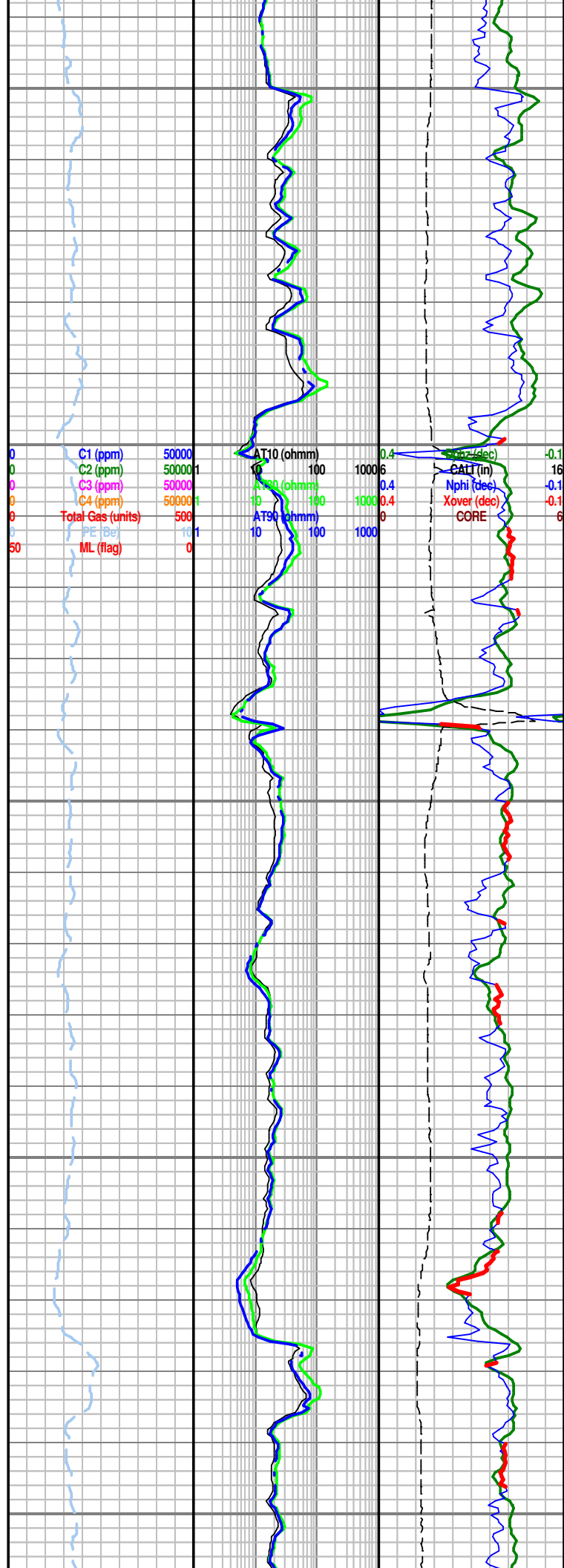
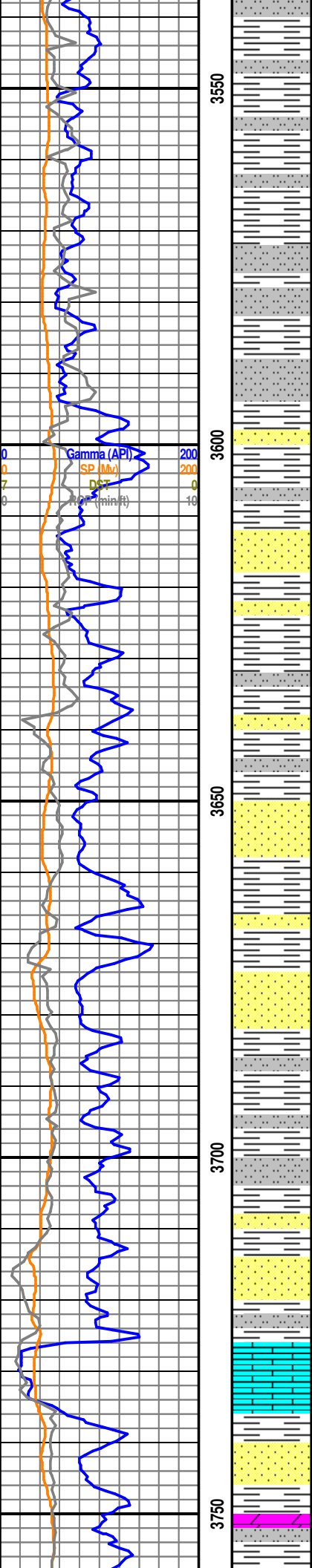


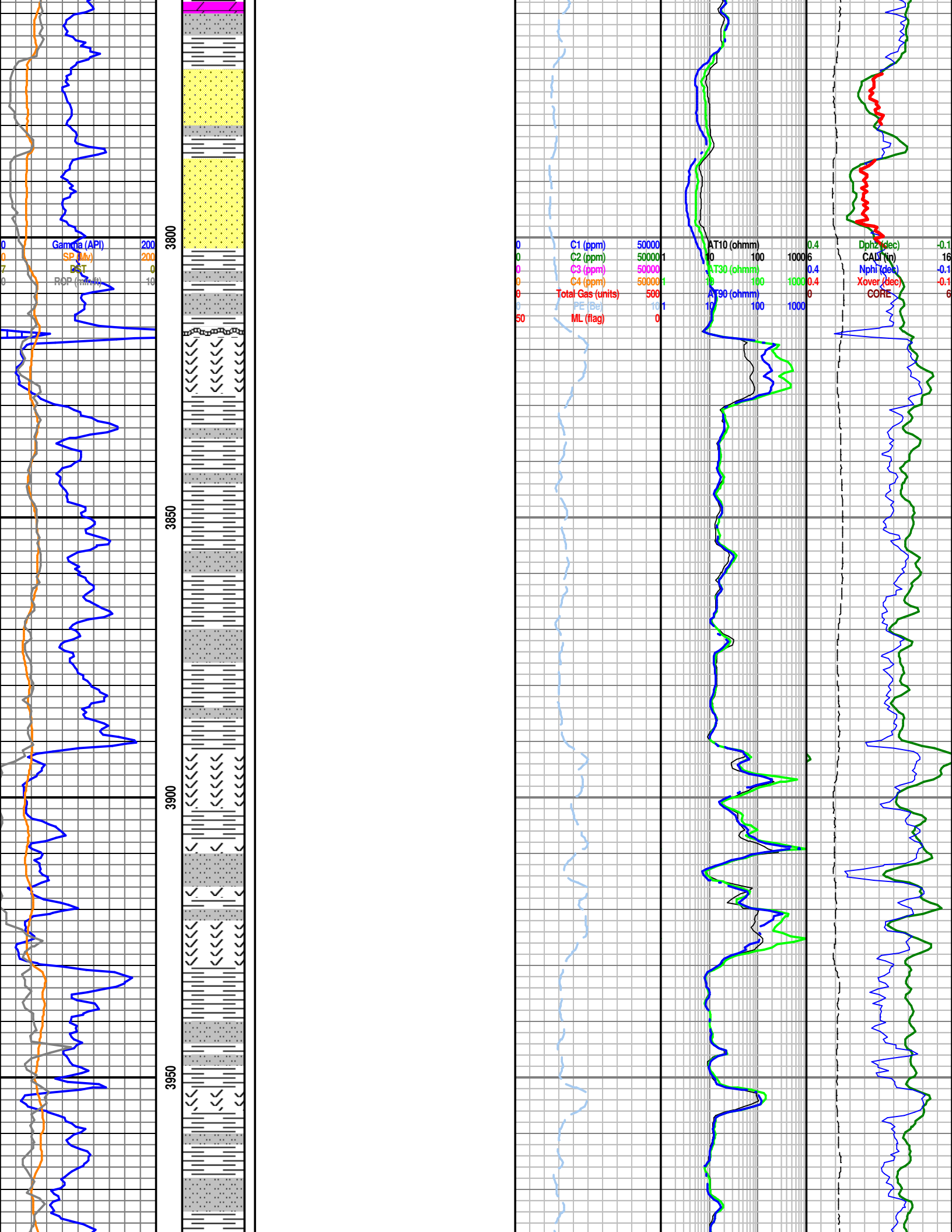


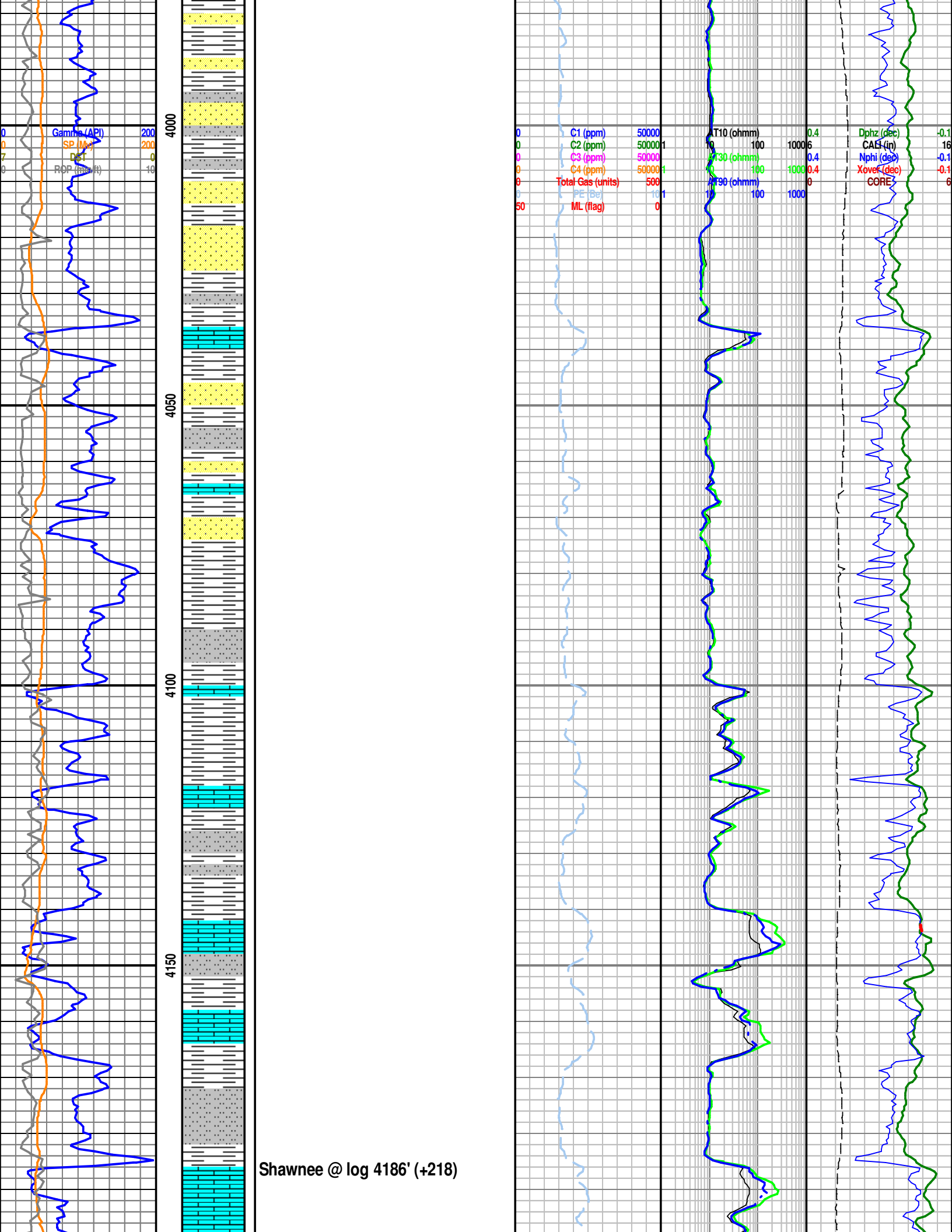
Stone Corral @ log 3192' (+1212)

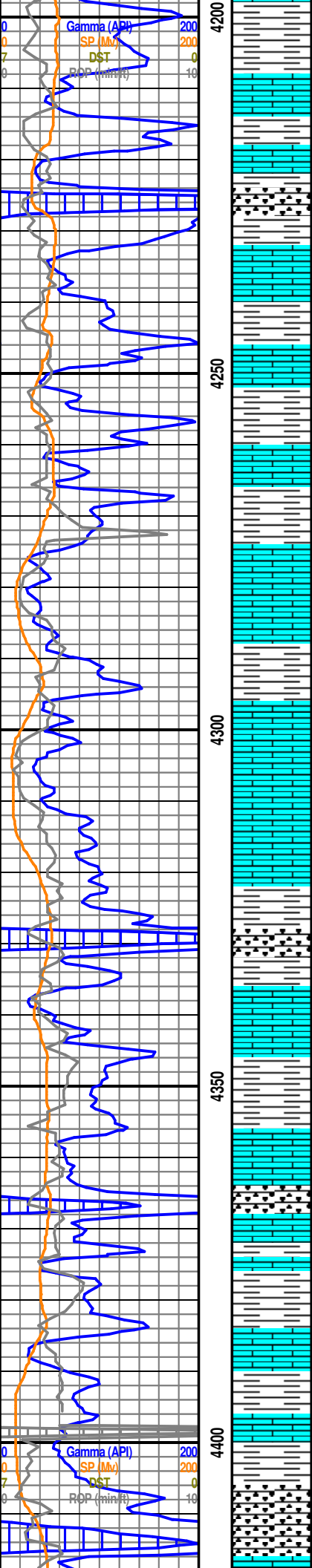






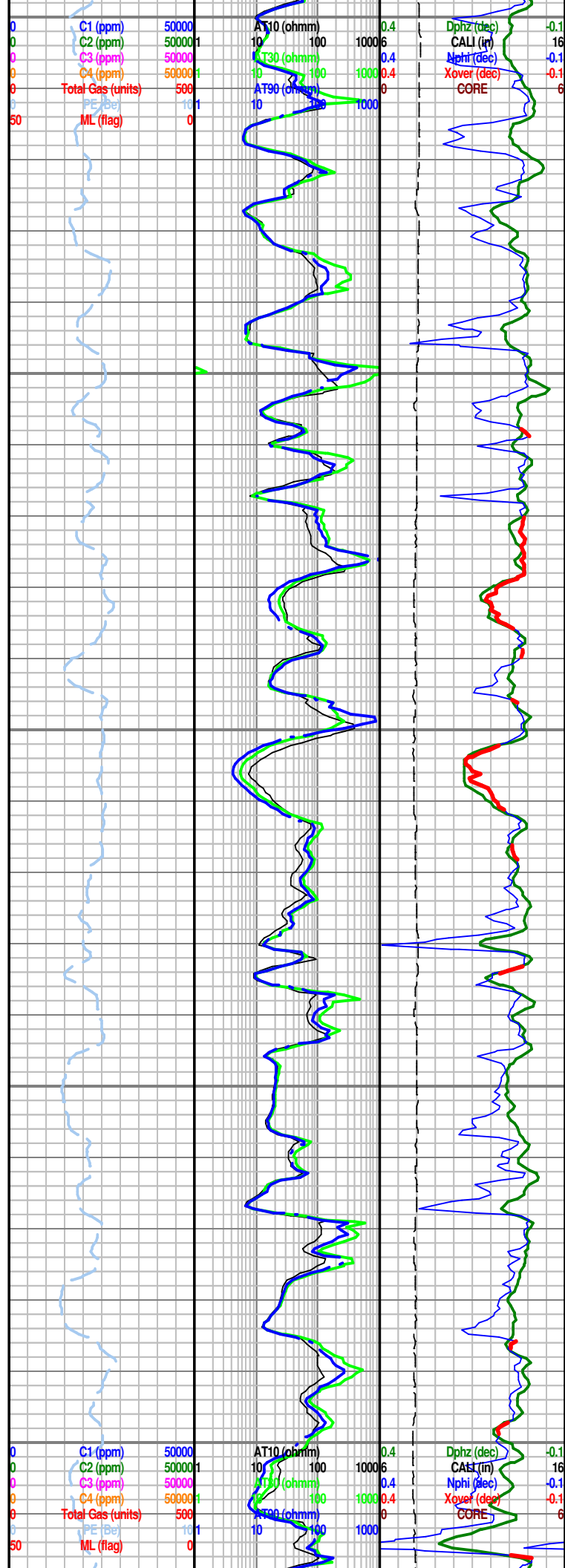


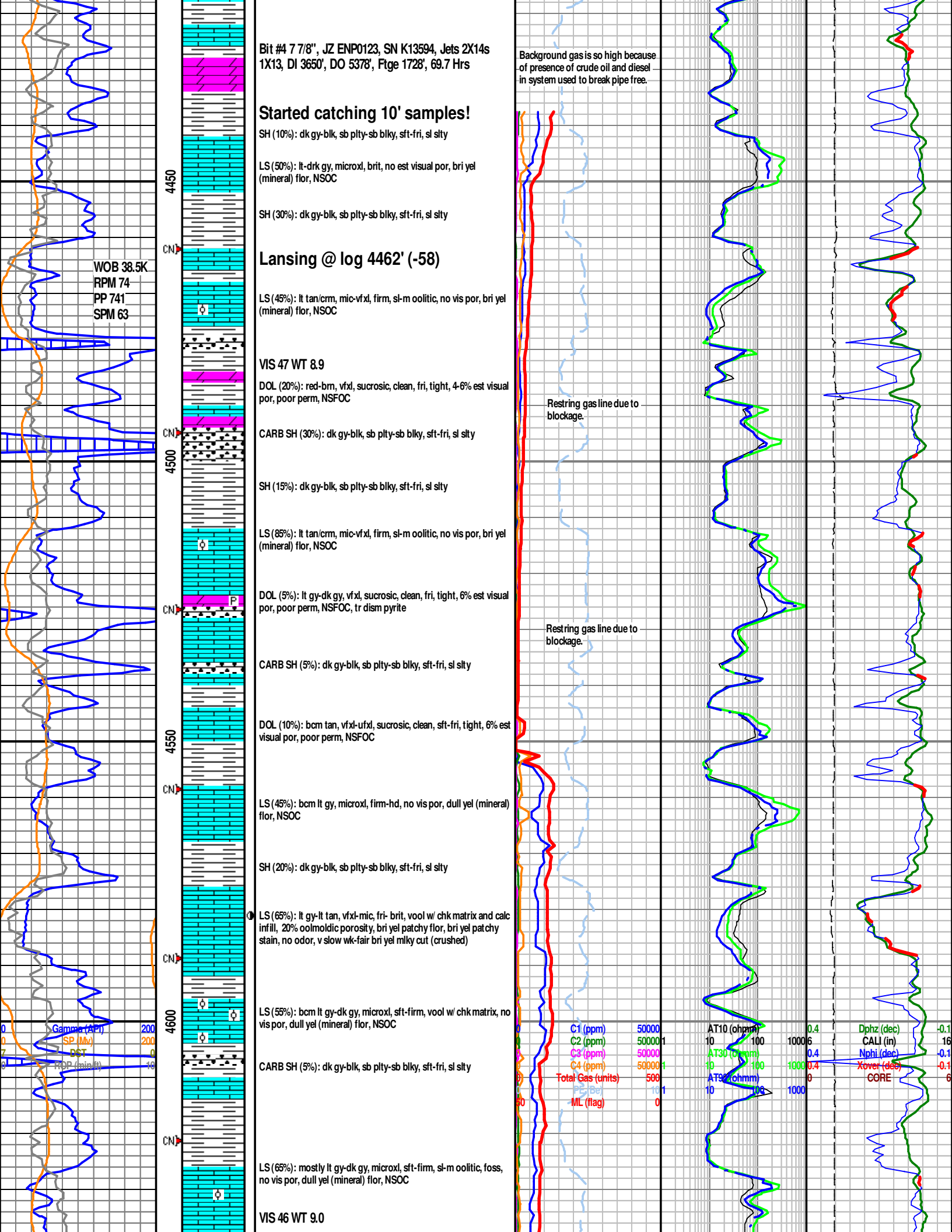




Lithology above 4450' interpreted by log curves and correlation!

Heebner Shale @ log 4406' (-2)





Bit #4 7 7/8", JZ ENP0123, SN K13594, Jets 2X14s
1X13, DI 3650', DO 5378', Ftge 1728', 69.7 Hrs

Started catching 10' samples!

SH (10%): dk gy-blk, sb plty-sb blkly, sft-fri, sl slty

LS (50%): lt-drk gy, microxl, brit, no est visual por, bri yel
(mineral) flr, NSOC

SH (30%): dk gy-blk, sb plty-sb blkly, sft-fri, sl slty

Lansing @ log 4462' (-58)

LS (45%): lt tan/crm, mic-vfxl, firm, sl-m oolitic, no vis por, bri yel
(mineral) flr, NSOC

VIS 47 WT 8.9

DOL (20%): red-brn, vfxl, sucrosic, clean, fri, tight, 4-6% est visual
por, poor perm, NSFOC

CARB SH (30%): dk gy-blk, sb plty-sb blkly, sft-fri, sl slty

SH (15%): dk gy-blk, sb plty-sb blkly, sft-fri, sl slty

LS (85%): lt tan/crm, mic-vfxl, firm, sl-m oolitic, no vis por, bri yel
(mineral) flr, NSOC

DOL (5%): lt gy-dk gy, vfxl, sucrosic, clean, fri, tight, 6% est visual
por, poor perm, NSFOC, tr dism pyrite

CARB SH (5%): dk gy-blk, sb plty-sb blkly, sft-fri, sl slty

DOL (10%): bcm tan, vfxl-ufxl, sucrosic, clean, sft-fri, tight, 6% est
visual por, poor perm, NSFOC

LS (45%): bcm lt gy, microxl, firm-hd, no vis por, dull yel (mineral)
flr, NSOC

SH (20%): dk gy-blk, sb plty-sb blkly, sft-fri, sl slty

LS (65%): lt gy-lt tan, vfxl-mic, fri-brit, wool w/ chk matrix and calc
infill, 20% oolmoldic porosity, bri yel patchy flr, bri yel patchy
stain, no odor, v slow wk-fair bri yel milky cut (crushed)

LS (55%): bcm lt gy-dk gy, microxl, sft-firm, wool w/ chk matrix, no
vis por, dull yel (mineral) flr, NSOC

CARB SH (5%): dk gy-blk, sb plty-sb blkly, sft-fri, sl slty

LS (65%): mostly lt gy-dk gy, microxl, sft-firm, sl-m oolitic, foss,
no vis por, dull yel (mineral) flr, NSOC

VIS 46 WT 9.0

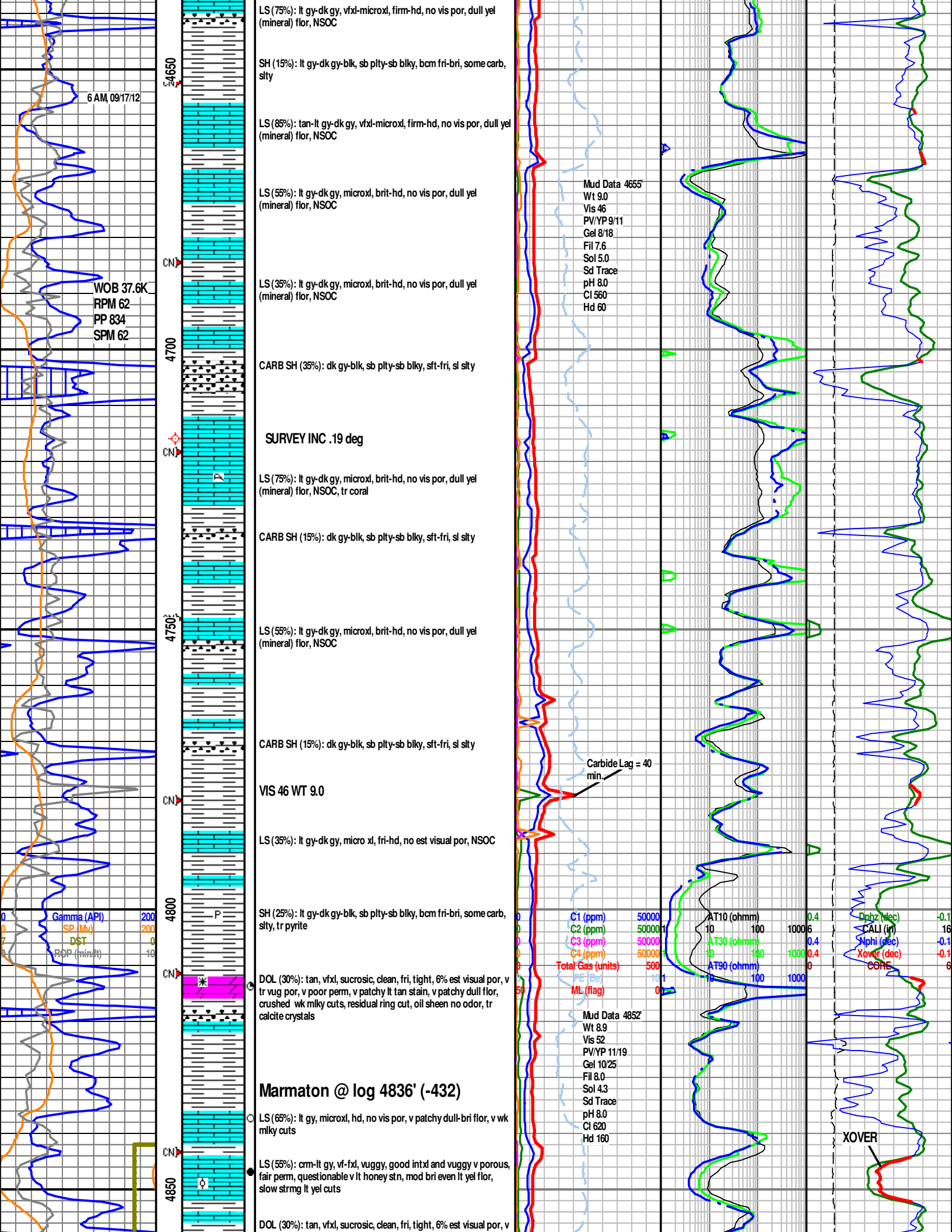
Background gas is so high because
of presence of crude oil and diesel
in system used to break pipe free.

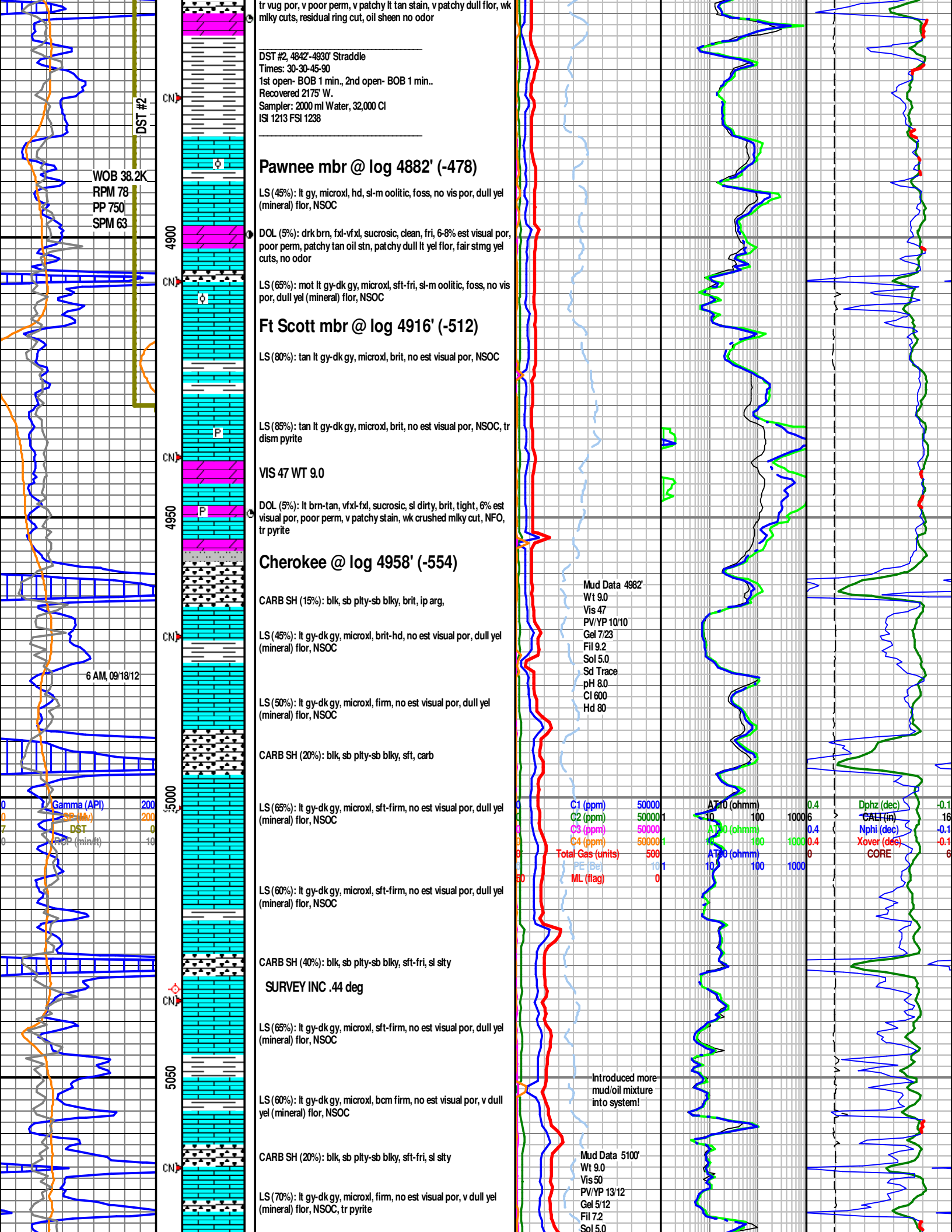
Restraining gas line due to
blockage.

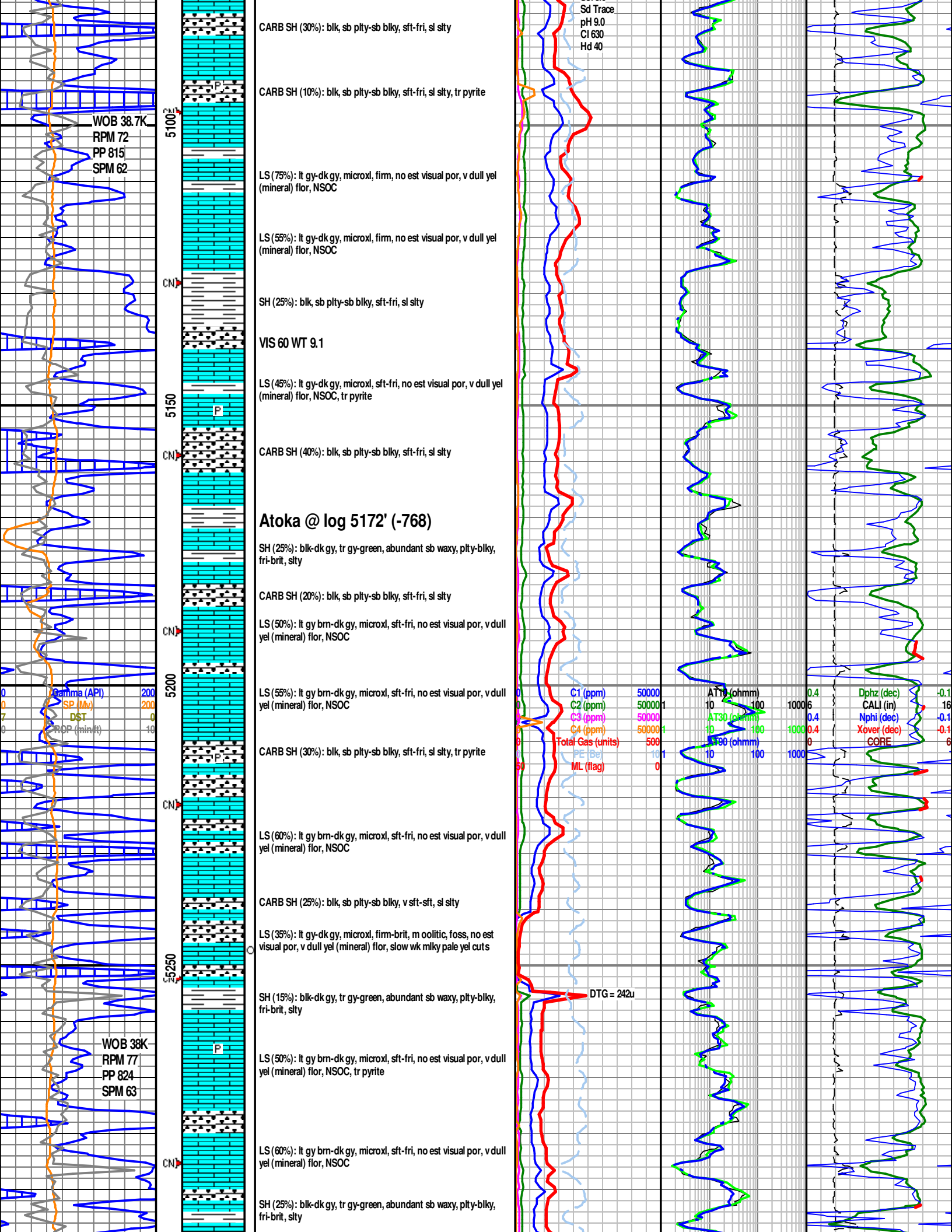
Restraining gas line due to
blockage.

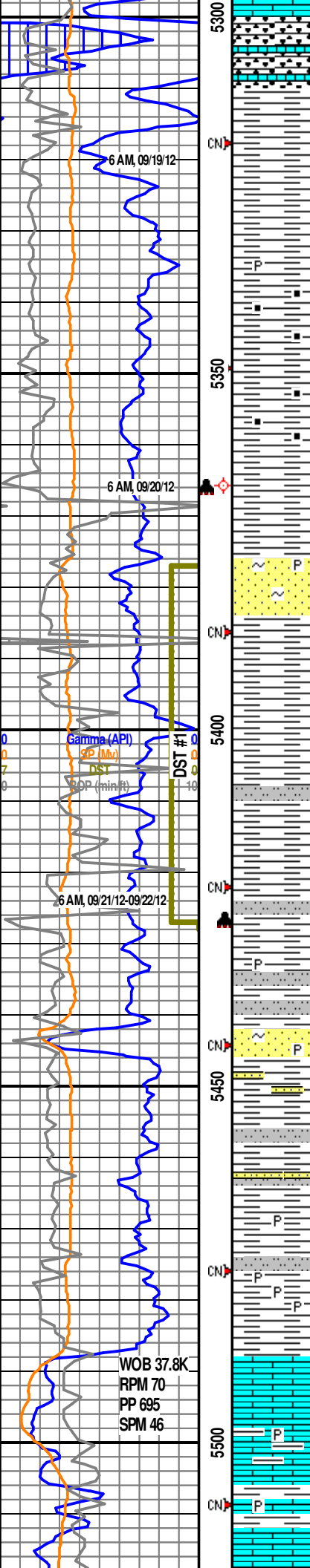
C1 (ppm) 50000
C2 (ppm) 50000
C3 (ppm) 50000
C4 (ppm) 50000
Total Gas (units) 500
P5 (Se) 11.1
ML (flag) 0

AT10 (ohmm) 10
AT30 (ohmm) 10
AT92 (ohmm) 10
Dphz (dec) 0.4
CALL (in) 16
Nphi (dec) -0.1
Xover (dec) -0.1
CORE 6









Morrow Shale @ log 5301' (-897)

CARB SH (35%): blk, sb plty-sb blkly, v sft-sft, sl slty

LS (35%): lt gy brn-dk gy, microxl, fri-brit, no est visual por, v dull yel (mineral) flr, NSOC

SH (55%): lt-dk gy, sme blk, sb plty-sb blkly, fri-brit, sl slty

VIS 57 WT 9.2

SH (65%): lt gy-dk gy, sme blk, sb plty-sb blkly, fri-brit, sl slty, carb, tr dism pyrite

SH (75%): blk, sme lt gy-dk gy, sb plty-sb blkly, fri-brit, sl slty, carb

Bit #5 7 7/8", Halliburton FC 3645, SN 11919712, Jets 6 X 12s, DI 5378', DO 5436', Ftge 58', 4 Hrs

VIS 82 WT 9.1

SURVEY INC .47 deg

-----Core #1 Chips-----

SH: v dk gy, sb plty, v firm, slty, fiss, laminated

SS: clr-trans. vfg-fg, ang-vang, well srt, clean, silica cmt, hd-vhd, 6% est vis por, tight, v poor perm, patchy bri yel dry flr, patchy bri yel stain, no odor, v slow good milky bri yel cut, abun dism glauc, tr pyrite

SH: v dk gy, sb plty, v firm, slty, fiss, laminated

SH: v dk gy, sb plty, v firm, slty, fiss, laminated

DST #1, 5389'-5439' (log 5377'-5427') Conventional

Times: 15-45-30-90

1st open- Weak blow died in 5 min., 2nd open- No blow.

Recovered 15' ML

Sampler: 2000ml Mud, 630 CI

ISI 26 FSI 38

Bit #6 7 7/8", HUGHES MX-30, SN 5188240, Jets 3X14s, DI 5436', DO 5682', Ftge 246', 16.2 Hrs

SH (95%): lt gy-dk gy, plty-blky, sft, slty, tr pyrite

SS (5%): clr-trans. vfg-fg, ang-vang, well srt, clean, silica cmt, hd-vhd, 6% est vis por, tight, v poor perm, NSFOC, abun dism glauc, tr pyrite

SH (95%): lt gy-dk gy, plty-blky, sft, slty

SH (95%): lt gy-dk gy, plty-blky, sft, slty, tr pyrite

SH (95%): lt gy-dk gy, plty-blky, sft, slty, abun pyrite

Lower Morrow @ log 5488' (-1084)

LS (35%): tan-whi-lt gy, fxl-microxl, fri-firm, no est visual por, dull yel flr (mineral), NSOC, tr pyrite

VIS 59 WT 9.0

LS (45%): tan-whi-lt gy, fxl-microxl, fri-firm, no est visual por, dull yel flr (mineral), NSOC, tr pyrite

Mud Data 5322'
Wt 9.2
Vis 54
PV/YP 16/12
Gel 7/22
Fil 6.8
Sol 6.5
Sd Trace
pH 9.0
CI 630
Hd 40

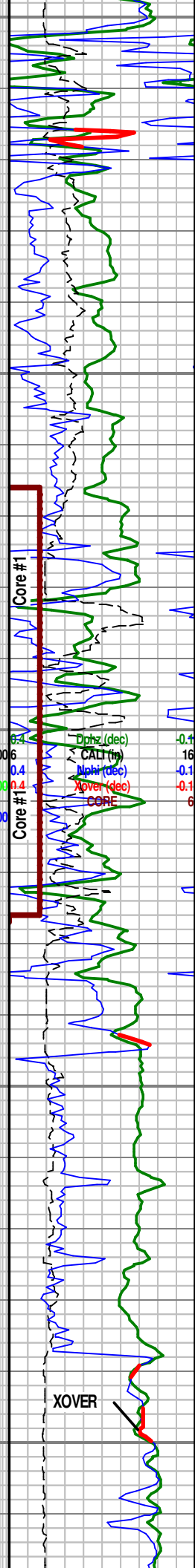
TG = 352u

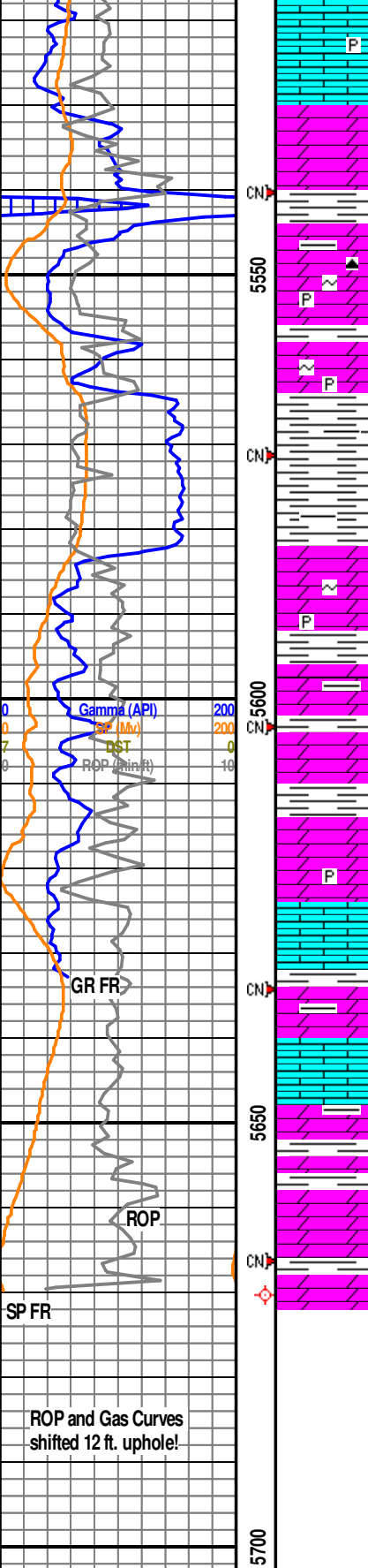
C1 (ppm) 50000
C2 (ppm) 50000
C3 (ppm) 50000
C4 (ppm) 50000
Total Gas (units) 500
PE (Se) 11.1
ML (flag) 0

AT10 (ohmm) 10 100
AT30 (ohmm) 10 100
AT90 (ohmm) 10 100

Mud Data 5436'
Wt 9.2
Vis 81
PV/YP 13/17
Gel 14/30
Fil 8.4
Sol 6.5
Sd Trace
pH 9.0
CI 630
Hd 40

TG = 402u





LS (55%): tan-whi-lt gy, fxl-microxl, fri-firm, no est visual por, dull yel flor (mineral), NSOC, tr pyrite

Spergen @ log 5530' (-1126)

DOL (10%): lt brn-tan, fxl-vfxl, subsucrosic, brit, no est visual por, poor perm, NSFOC

DOL (30%): lt brn-tan, fxl-vfxl, subsucrosic, brit, no est visual por, poor perm, NSFOC, tr glauconite, tr chert, tr pyrite

DOL (40%): lt brn-tan, mottled, fxl-vfxl, subsucrosic, brit, no est visual por, poor perm, NSFOC, tr glauconite, tr dism pyrite

SH (25%): lt gy-dk gy, plty-blky, sft, slty

SH (35%): lt gy-dk gy, plty-blky, sft, slty

DOL (45%): lt brn-tan, mottled, fxl-vfxl, subsucrosic, brit, no est visual por, poor perm, NSFOC, tr glauconite, tr pyrite

SH (15%): lt gy-dk gy, plty-blky, sft, slty

DOL (55%): lt brn-tan, mottled, vfxl-ufxl, subsucrosic, bcm sft, 6% est visual por, tight, poor perm, v patchy bri yel flor, v patchy bri yel stain, no odor, slow wk-fair bri yel wispy cuts, tr pyrite

SH (5%): lt gy-dk gy, plty-blky, sft, slty

DOL (60%): lt brn-tan, mottled, fxl-vfxl, subsucrosic, brit, no est visual por, poor perm, NSFOC

SURVEY INC 0.26 deg

Drillers TD: 5682' (MD)

(reached on 9/23/12 at 05:31 am)

Loggers TD: 5671' (MD)

***** Sampling of Directional Surveys *****

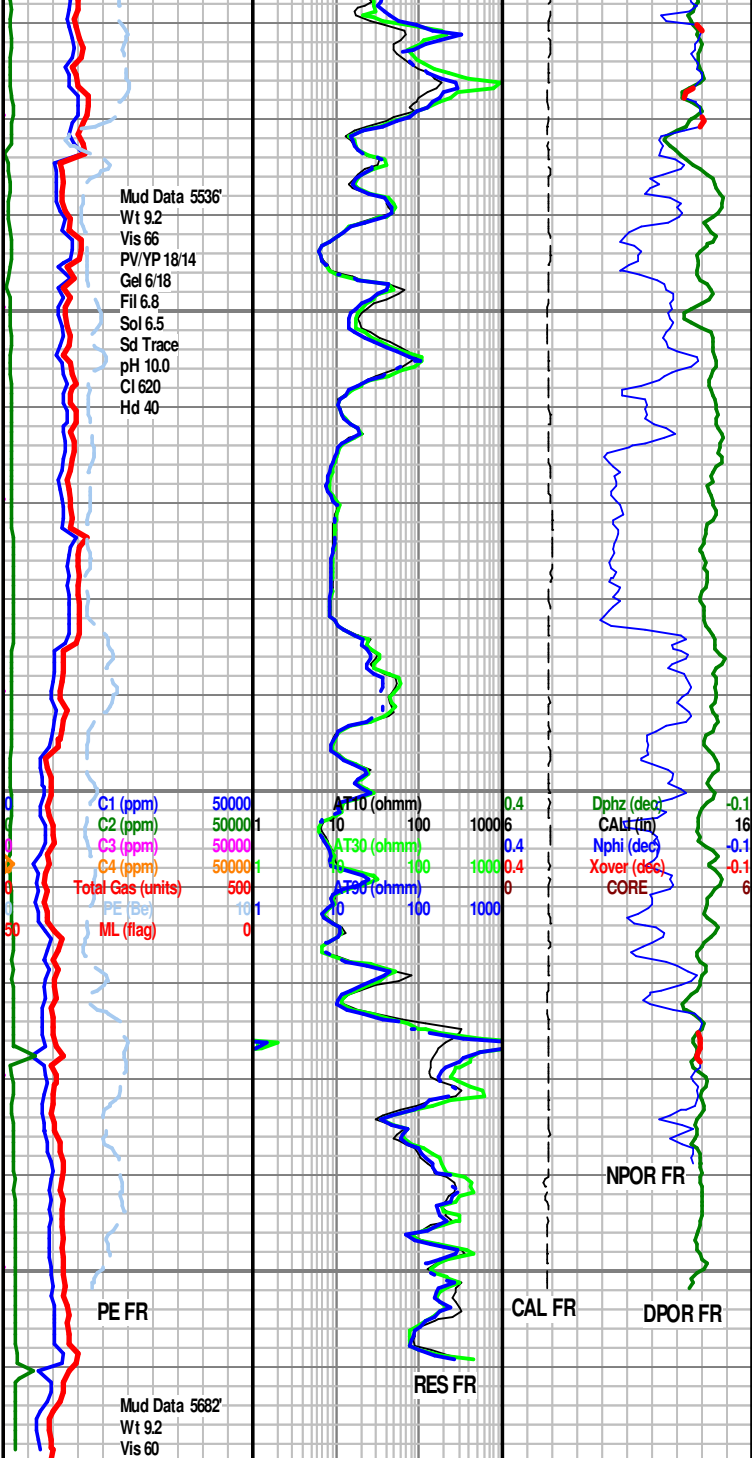
4728°- 0.19°, 5046°- 0.44°, 5378°- 0.47°, 5682°- 0.26°

Plugging Procedure

- 40 sks 5377'-5427'
- 40 sks 5301'
- 60 sks 4843'-4930'
- 40 sks 2500'
- 40 sks 1800'
- 50 sks 484'
- 10 sks surface
- 10 sks rathole
- 10 sks mousehole

290 sks total

Thank you for using our service!



Mud Data 5536'
Wt 9.2
Vis 66
PV/YP 18/14
Gel 6/18
Fil 6.8
Sol 6.5
Sd Trace
pH 10.0
Cl 620
Hd 40

C1 (ppm) 50000
C2 (ppm) 50000
C3 (ppm) 50000
C4 (ppm) 50000
Total Gas (units) 500
PE (Se) 11.1
ML (flag) 0

AT10 (ohmm) 0.4
AT30 (ohmm) 0.4
AT50 (ohmm) 0.4

Dphz (deg) -0.1
CAL (in) 16
Nphi (deg) -0.1
Xover (deg) -0.1
CORE 6

Mud Data 5682'
Wt 9.2
Vis 60
PV/YP 14/14
Gel 7/24
Fil 7.2
Sol 6.5
Sd Trace
pH 10.0
Cl 620
Hd 40

[illegible]