



## Oil & Gas Ltd.

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

Well Name: Crestone 33-17  
Location: NWSE Sec 17-T14S-R47W, Cheyenne County, Colorado  
License Number: API: 05-017-07717  
Spud Date: 10/24/12  
Surface Coordinates: 2156' FSL & 2099' FEL  
Lat: 38.828900, Long: -102.692470  
Bottom Hole Coordinates: Same  
Ground Elevation (ft): 4255'  
Logged Interval (ft): 4100' To: 5468'  
Formation: Morrow, (TD in St. Louis).  
Type of Drilling Fluid: LSND, Hydro Resources

Region: Wildcat  
Drilling Completed: 11/03/12

K.B. Elevation (ft): 4265'  
Total Depth (ft): 5464' LTD

Printed by STRIP.LOG from WellSight Systems 1-800-447-1534 [www.WellSight.com](http://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

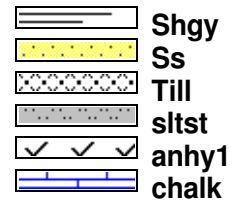
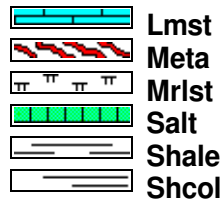
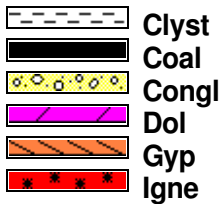
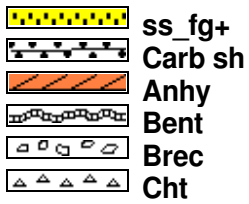
### DSTs

Three tests (See description column for details)

### Comments

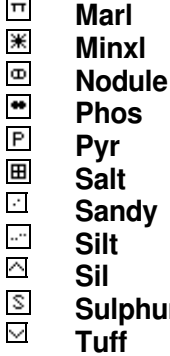
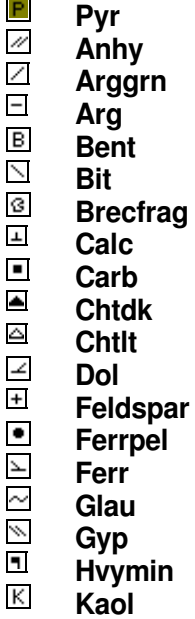
- 1) 8 5/8" csg set @ 434' KB.
- 2) Contractor: Integrity Drilling Rig #69. Toolpusher: Josh Kliesin, Company Man: Larry Schneider
- 3) Plugged and abandoned on November 06, 2012.

## ROCK TYPES

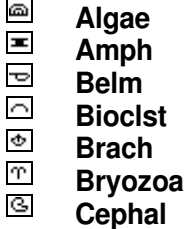


## ACCESSORIES

### MINERAL



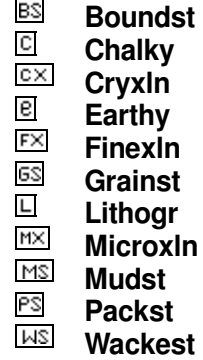
### FOSSIL



### STRINGER

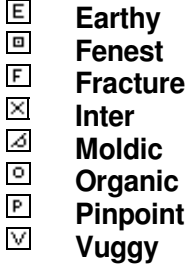


### TEXTURE

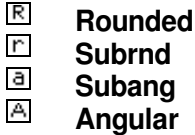


## OTHER SYMBOLS

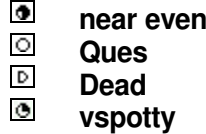
### POROSITY TYPE



### ROUNDING



### OIL SHOWS



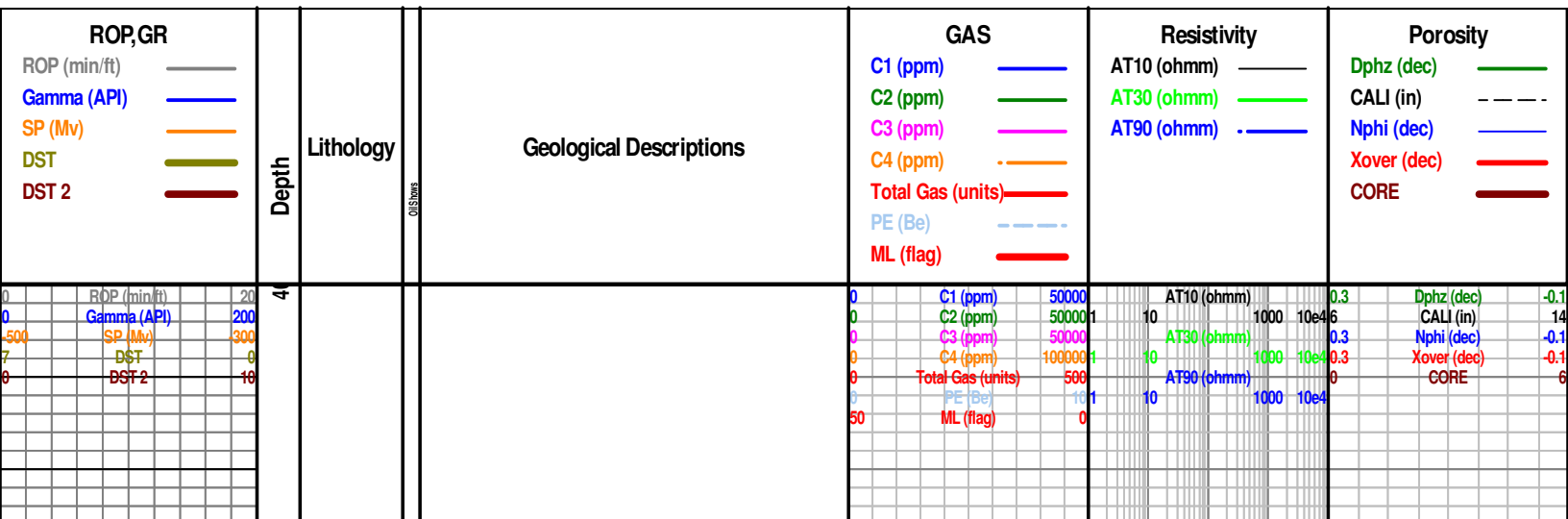
### INTERVALS

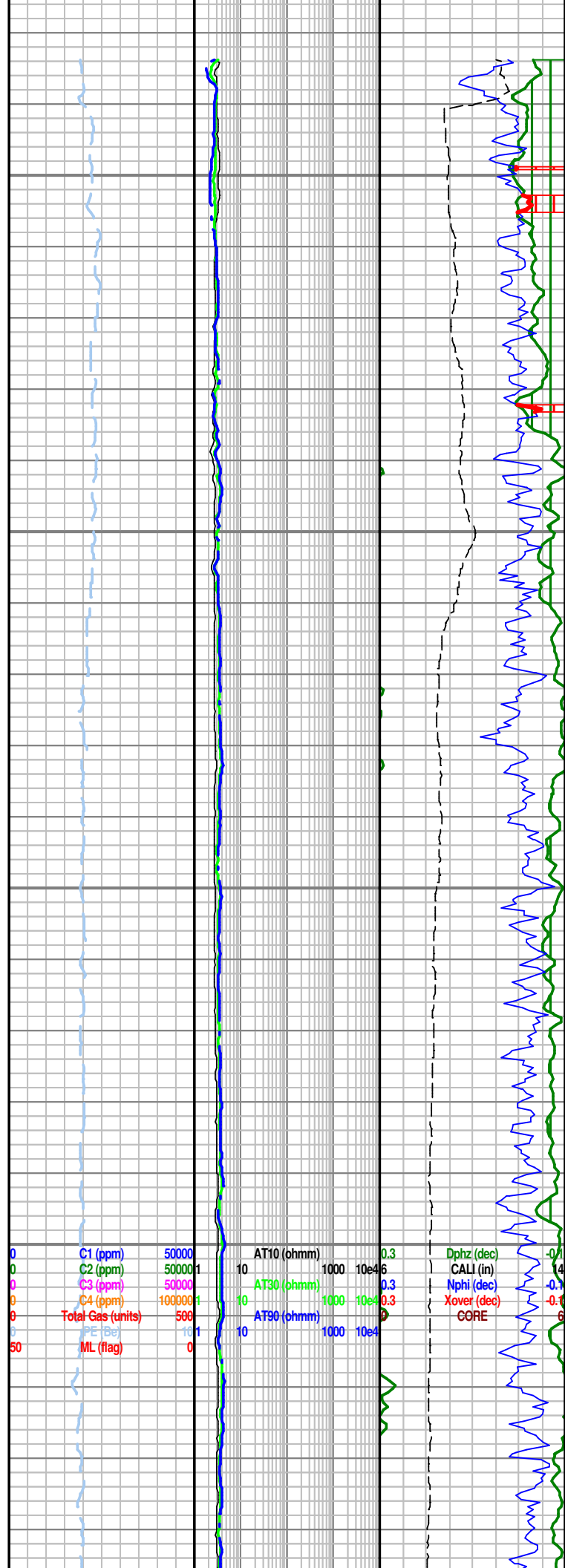
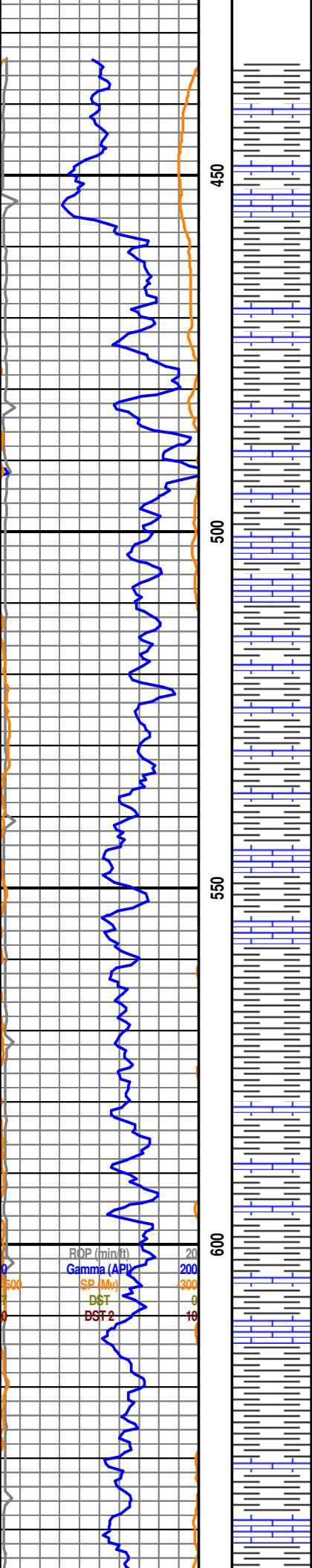


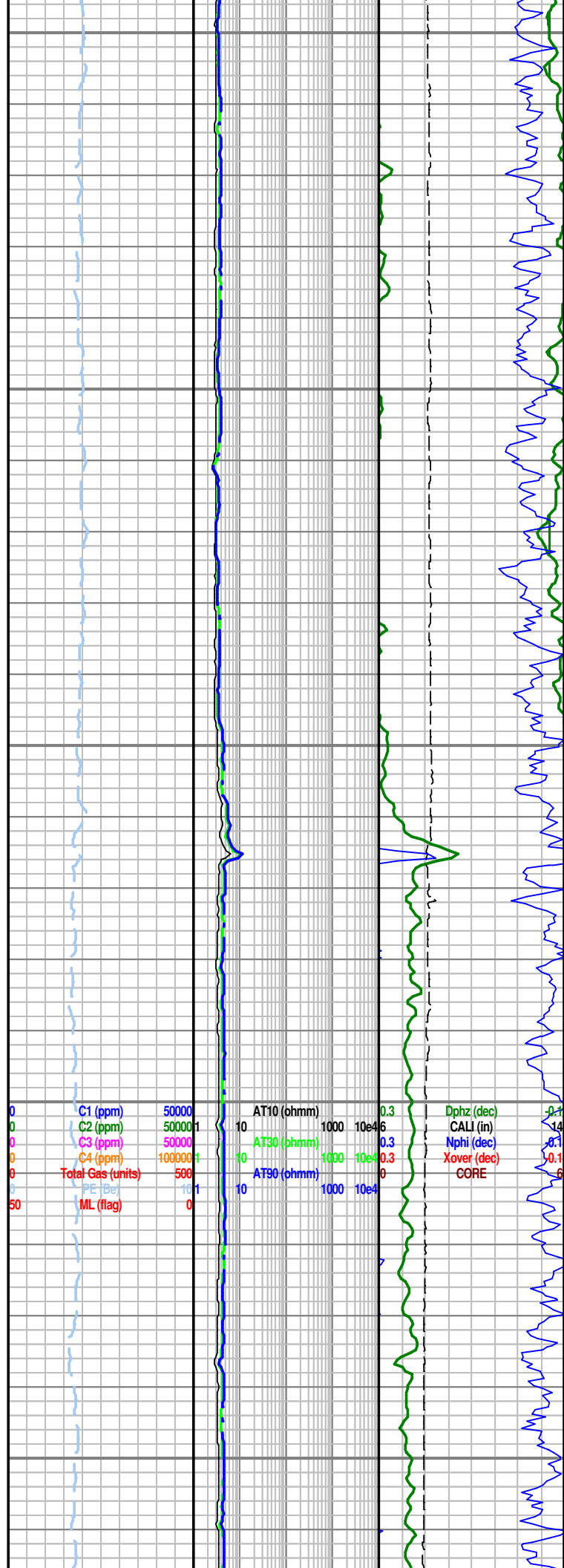
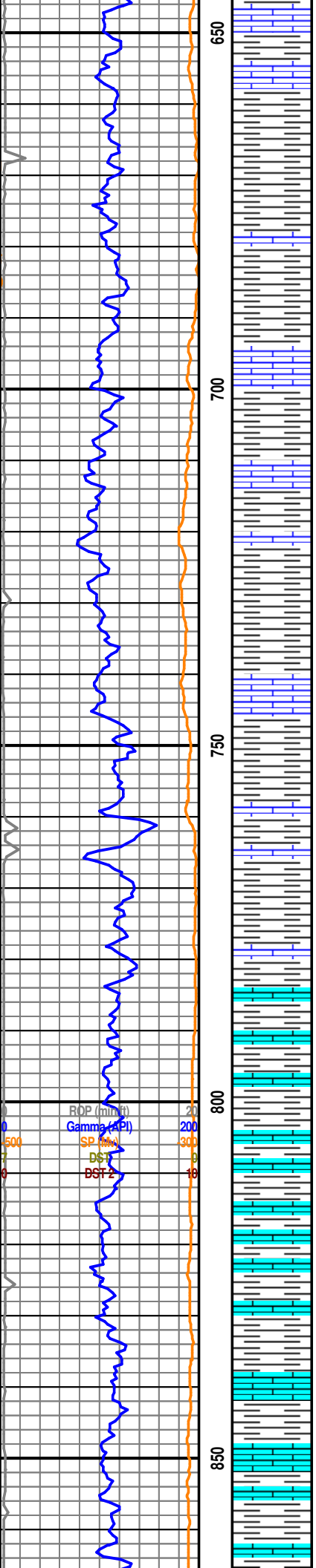
### EVENTS

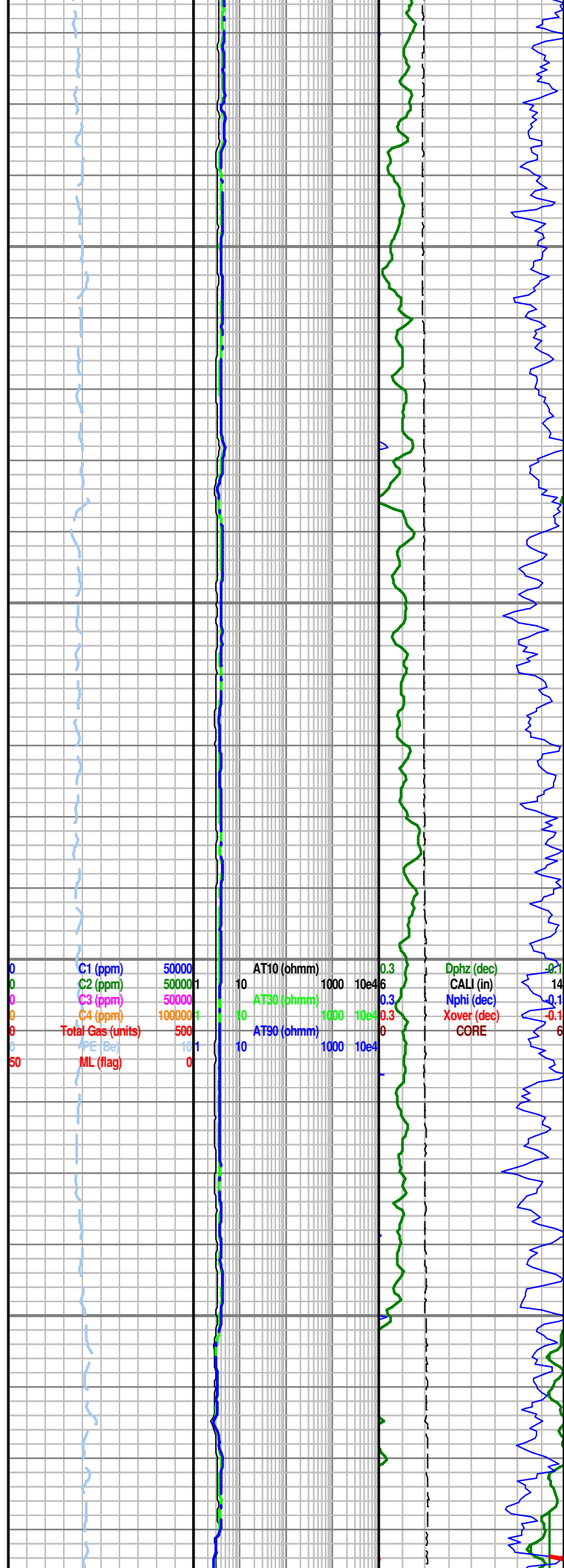
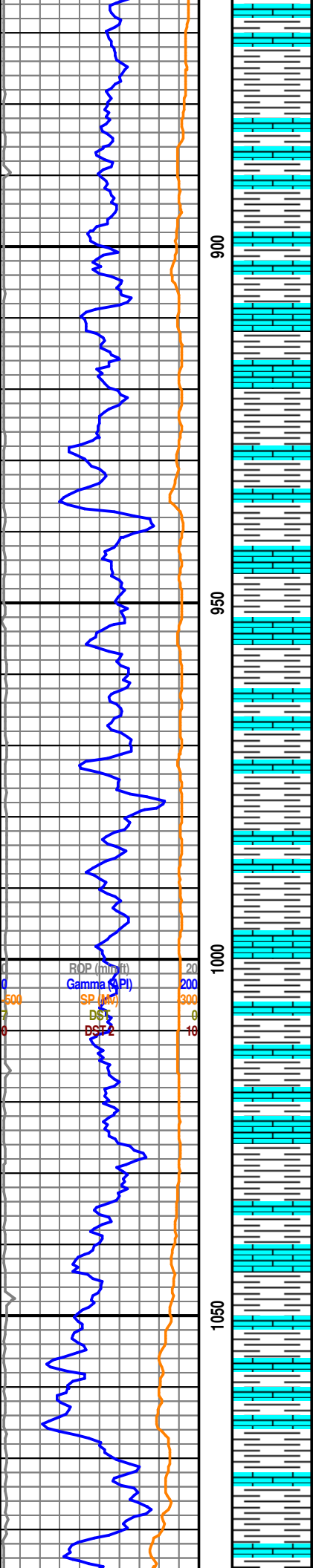


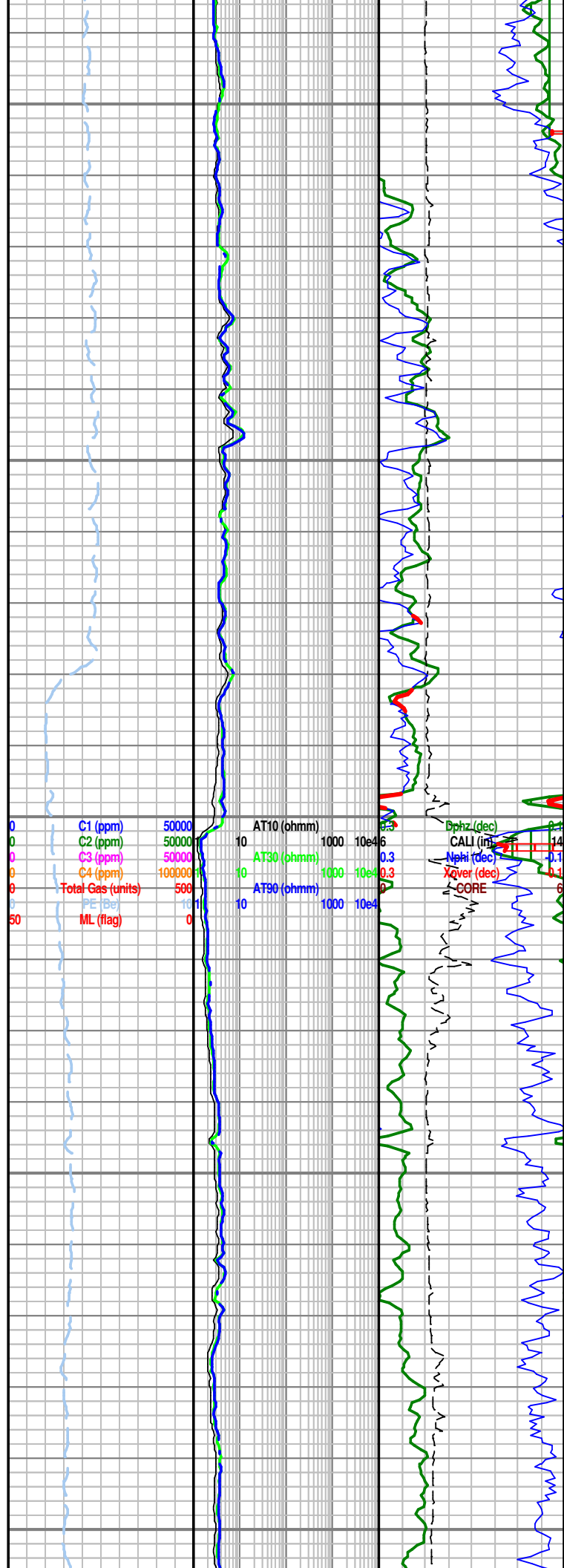
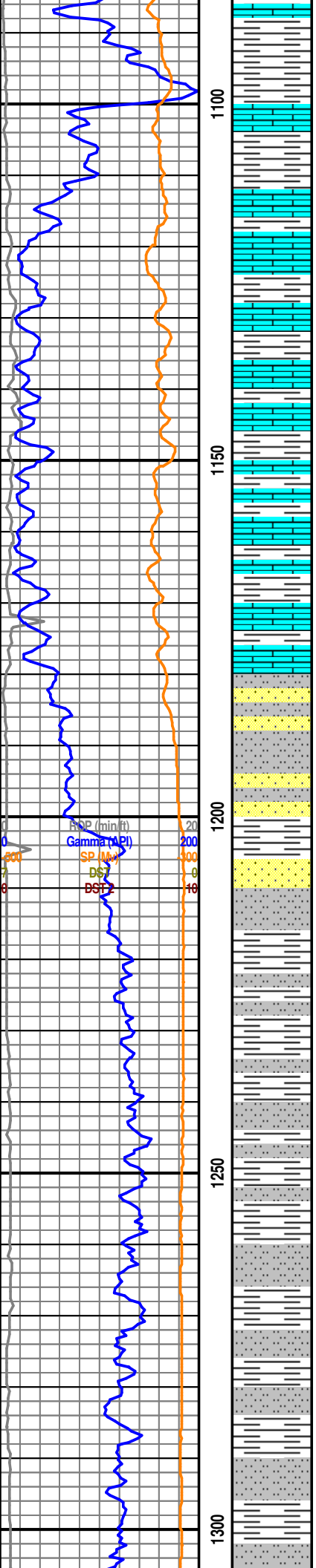
### SORTING

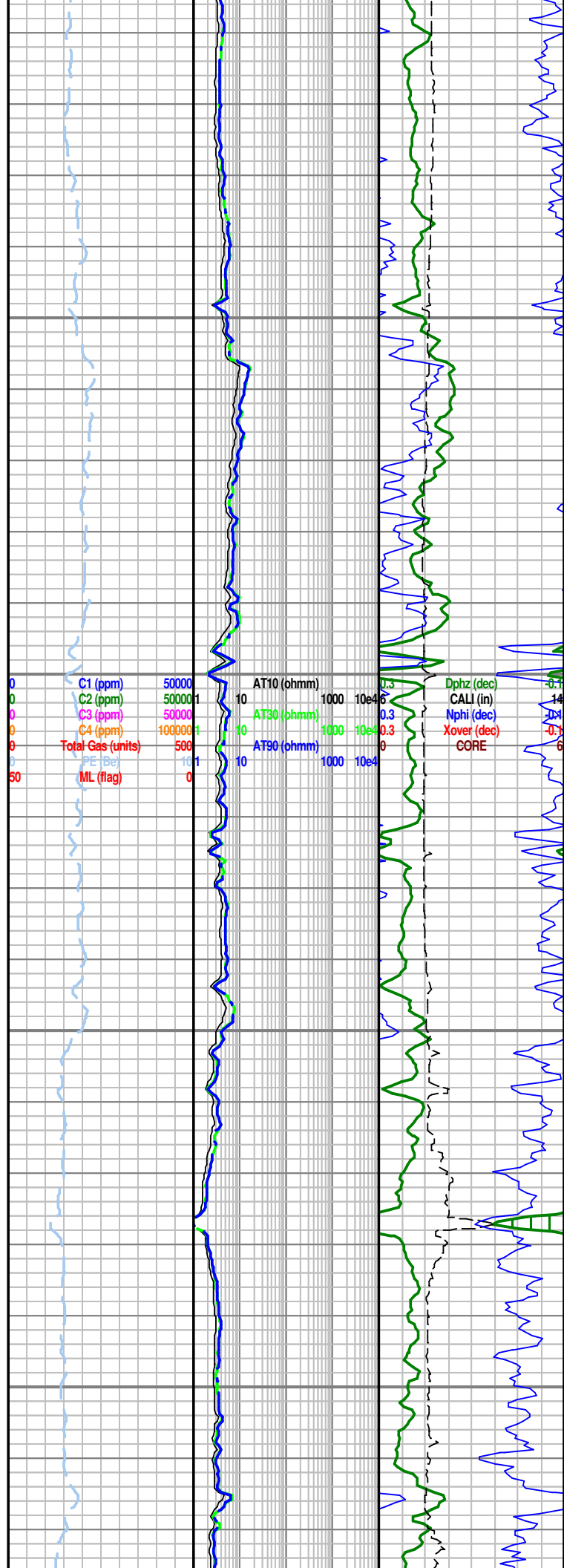
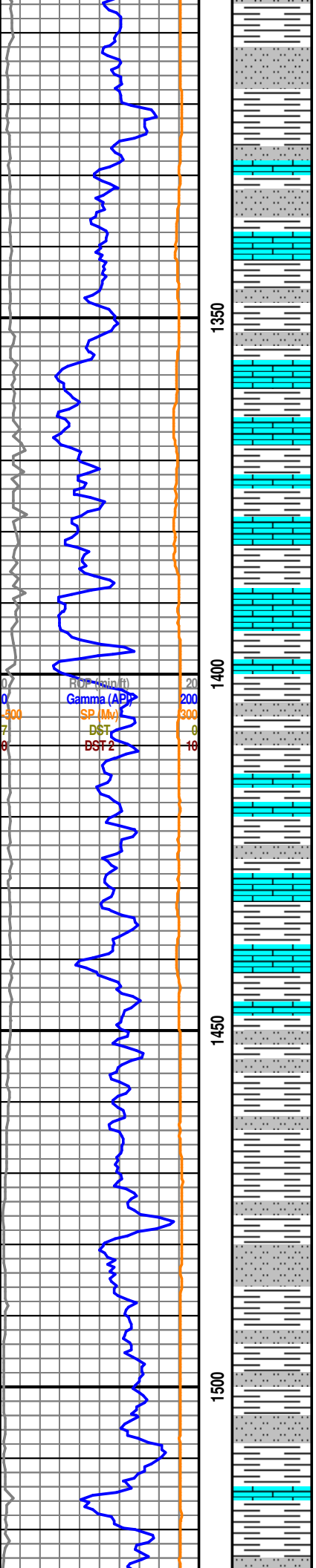




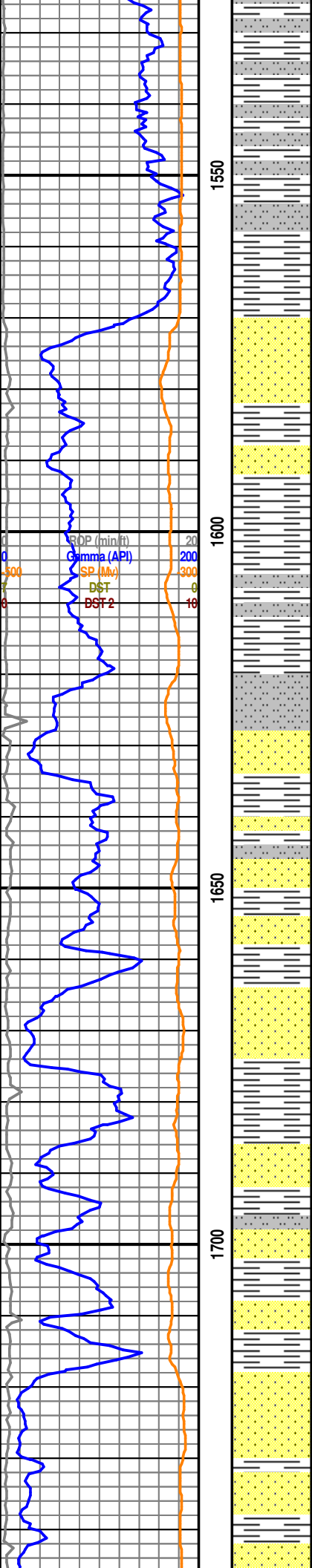




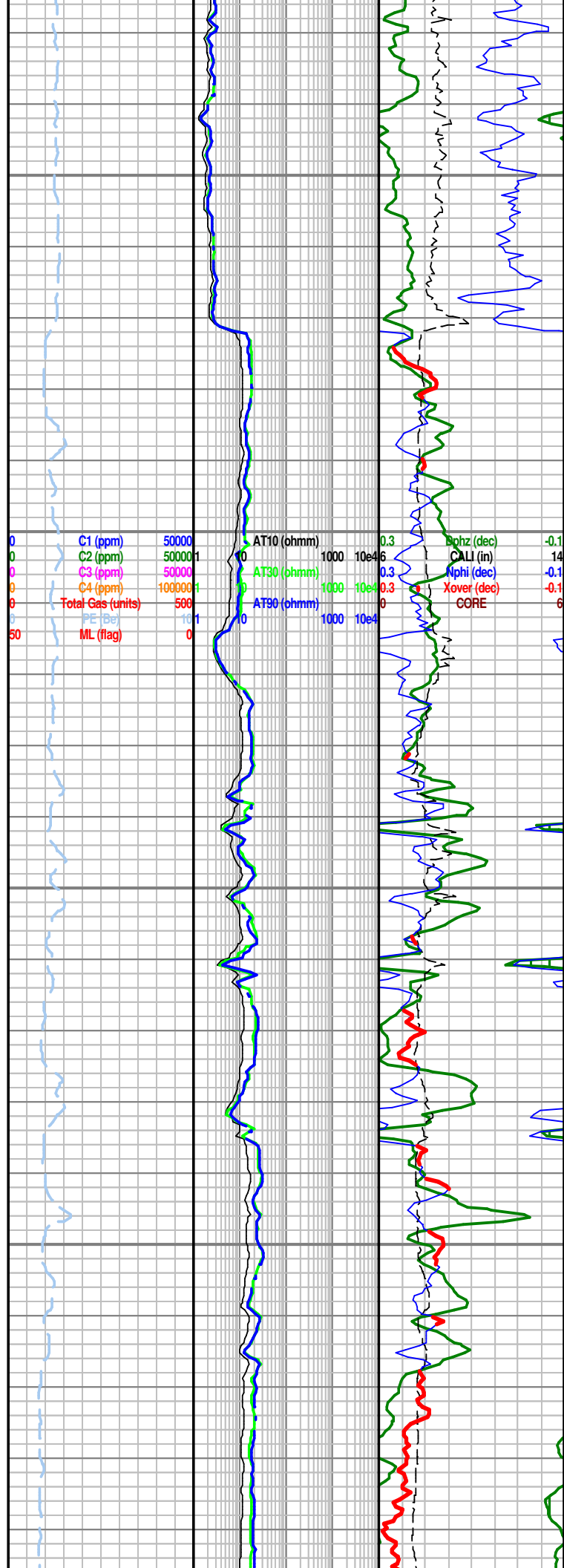




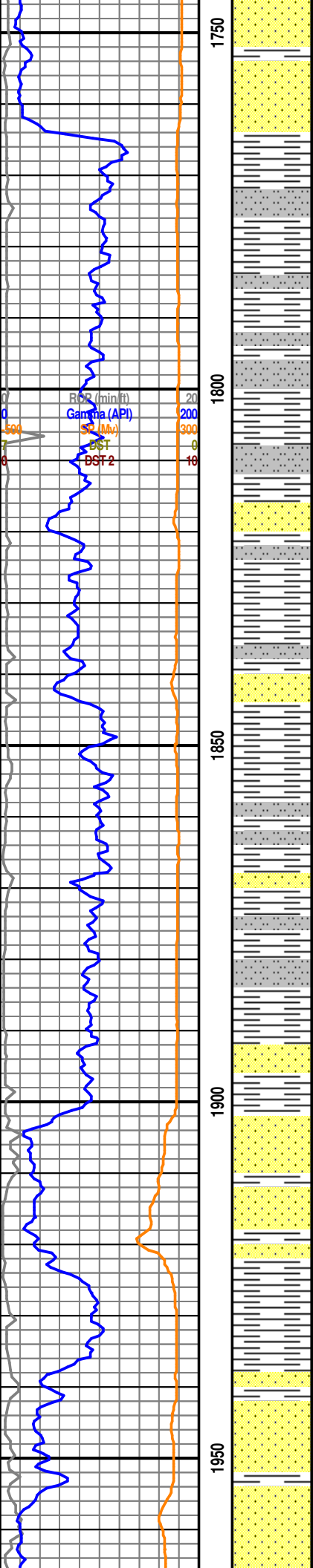




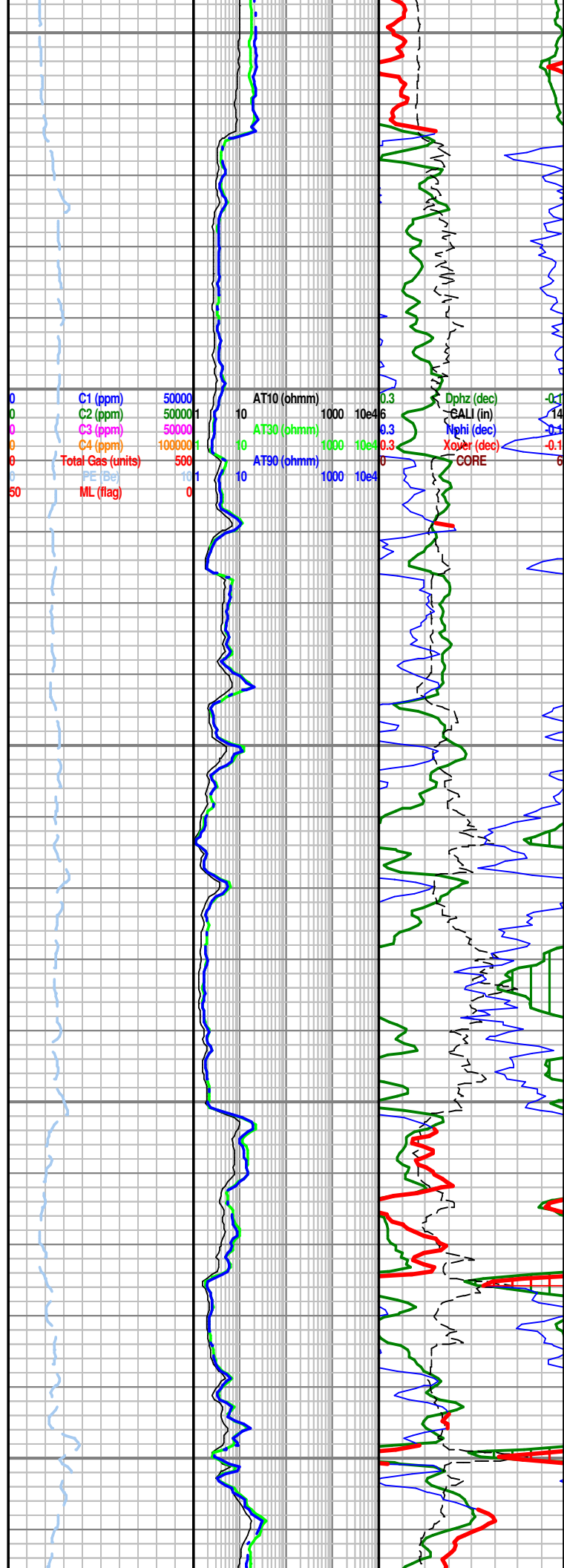
Dakota SS @ log 1570' (+2695)

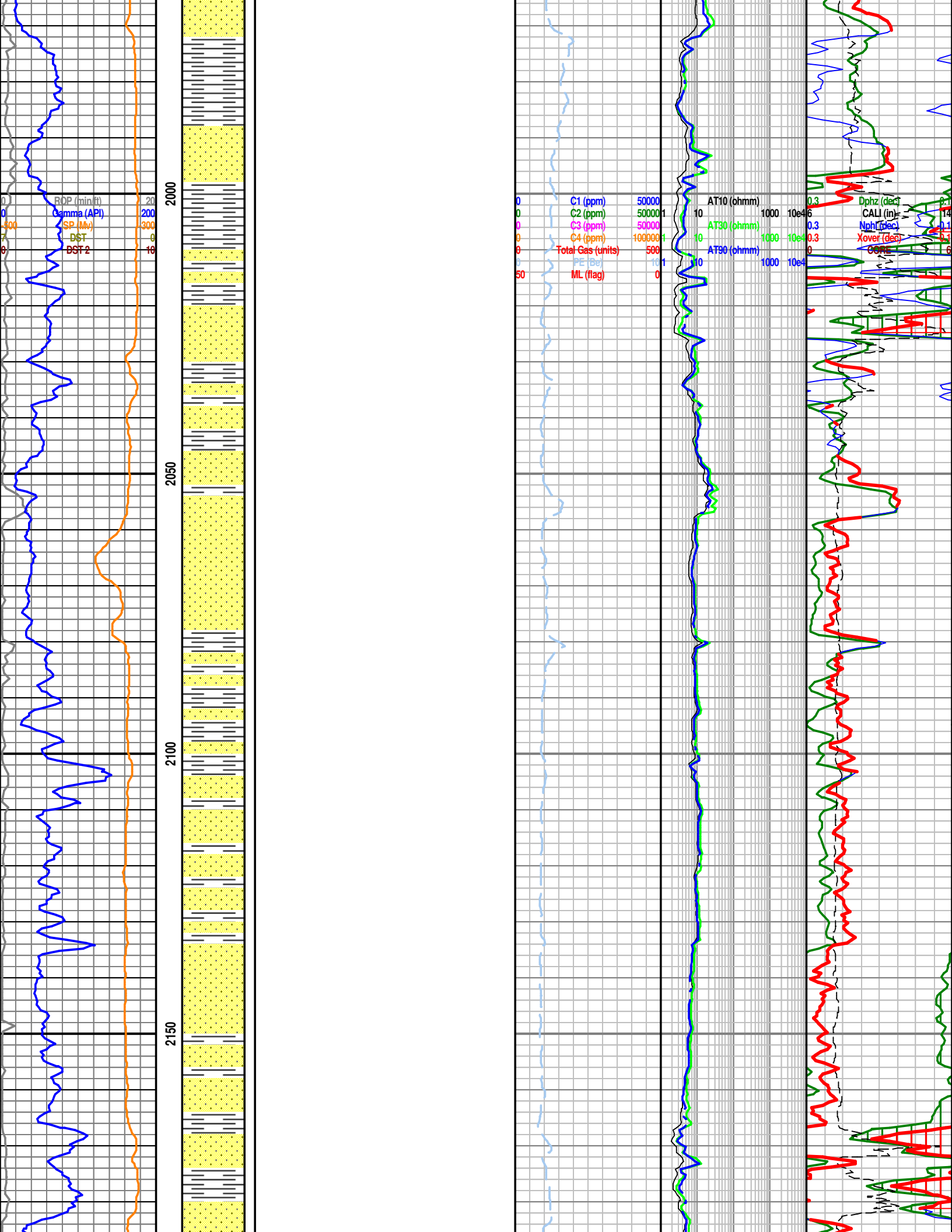


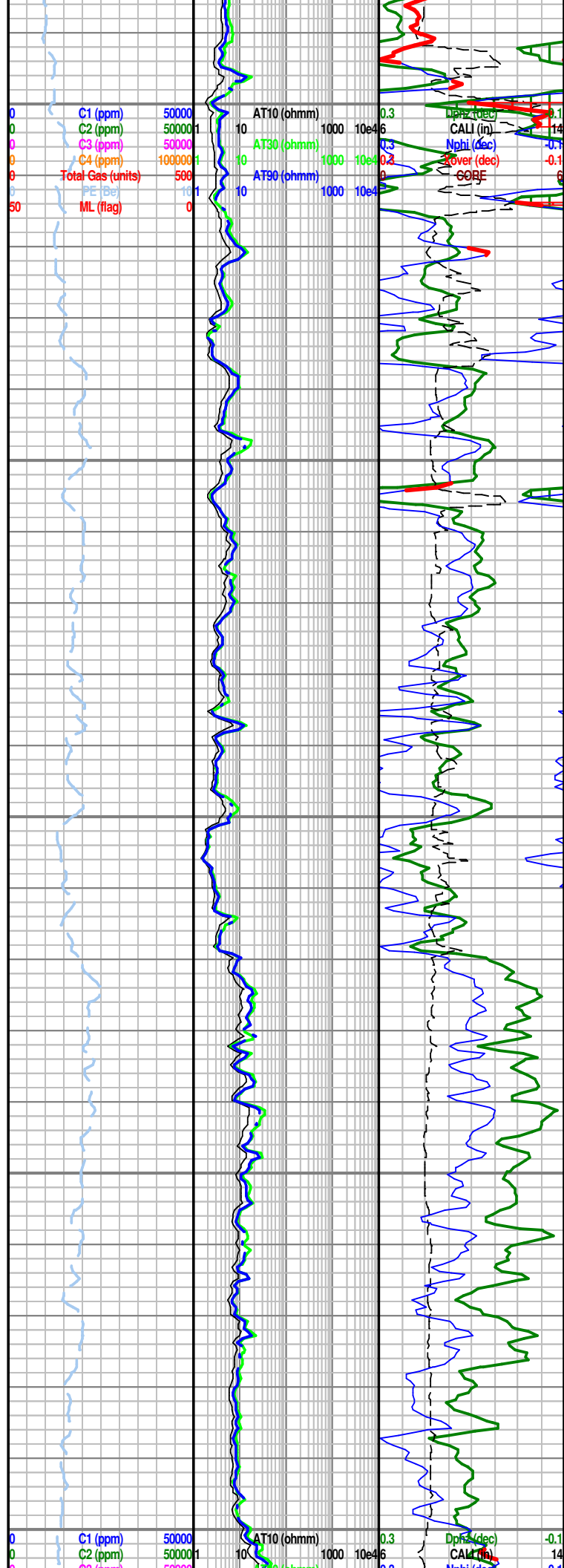
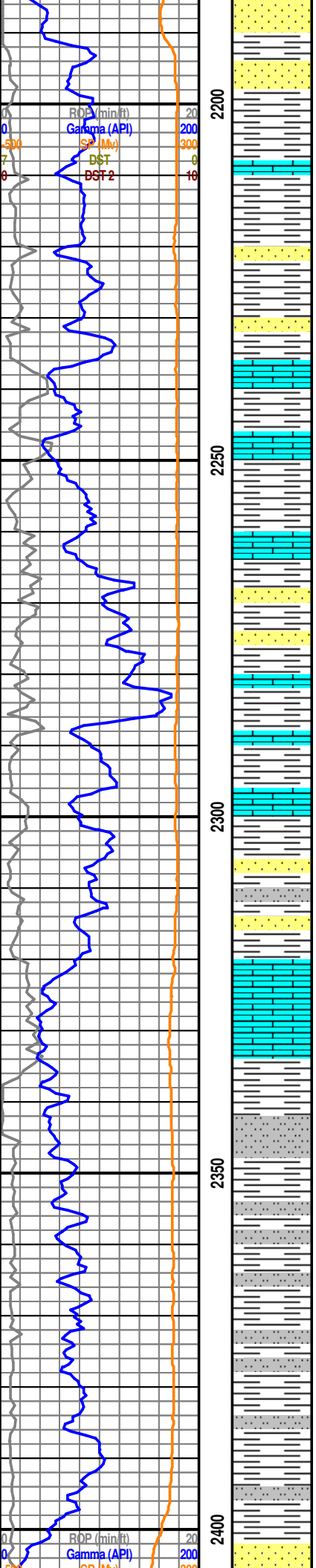


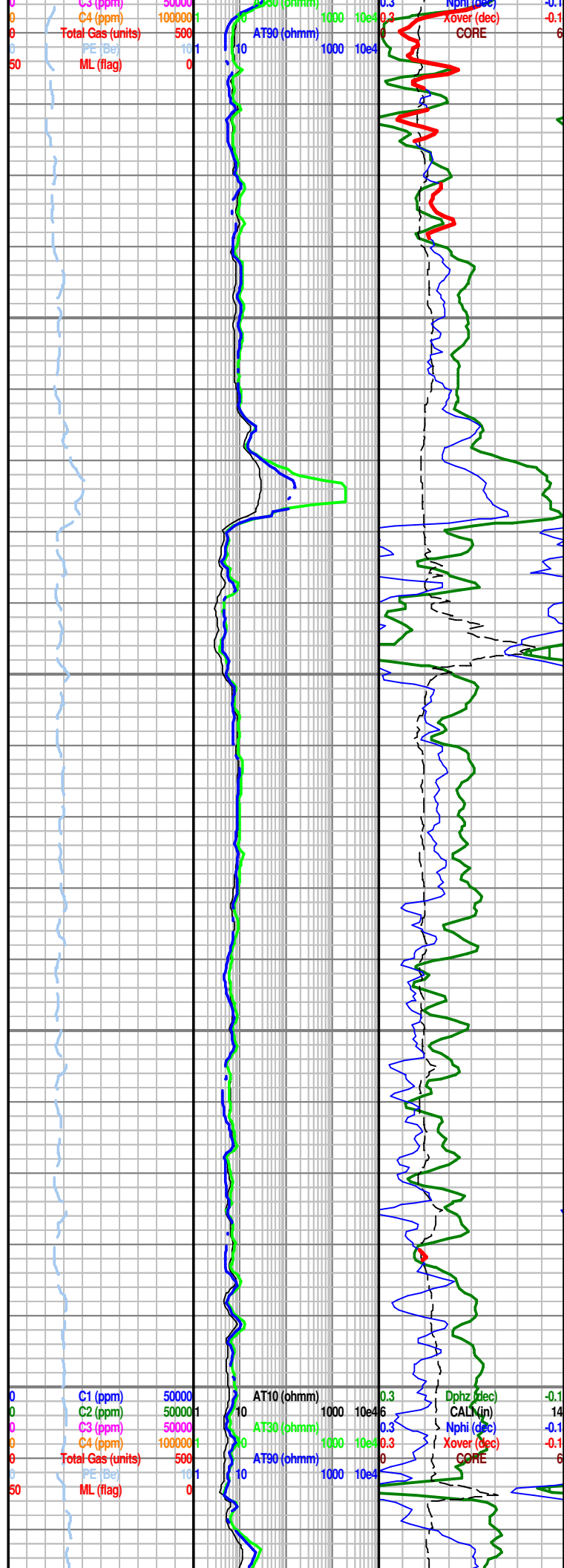
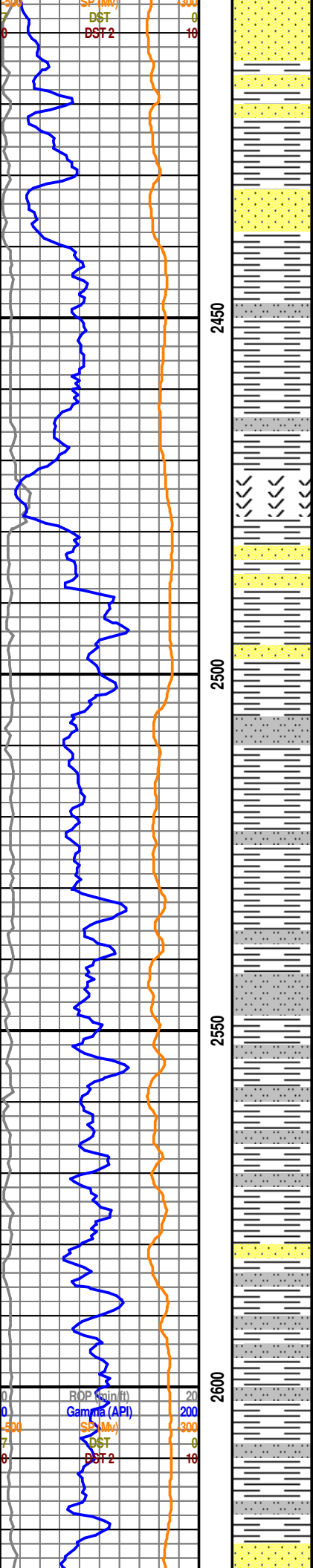


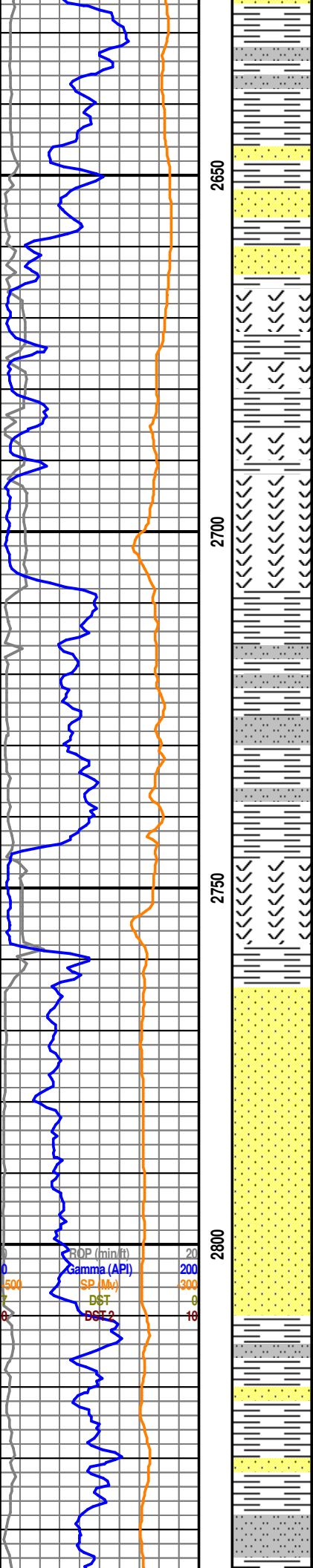
Cheyenne SS @ log 1902' (+2363)



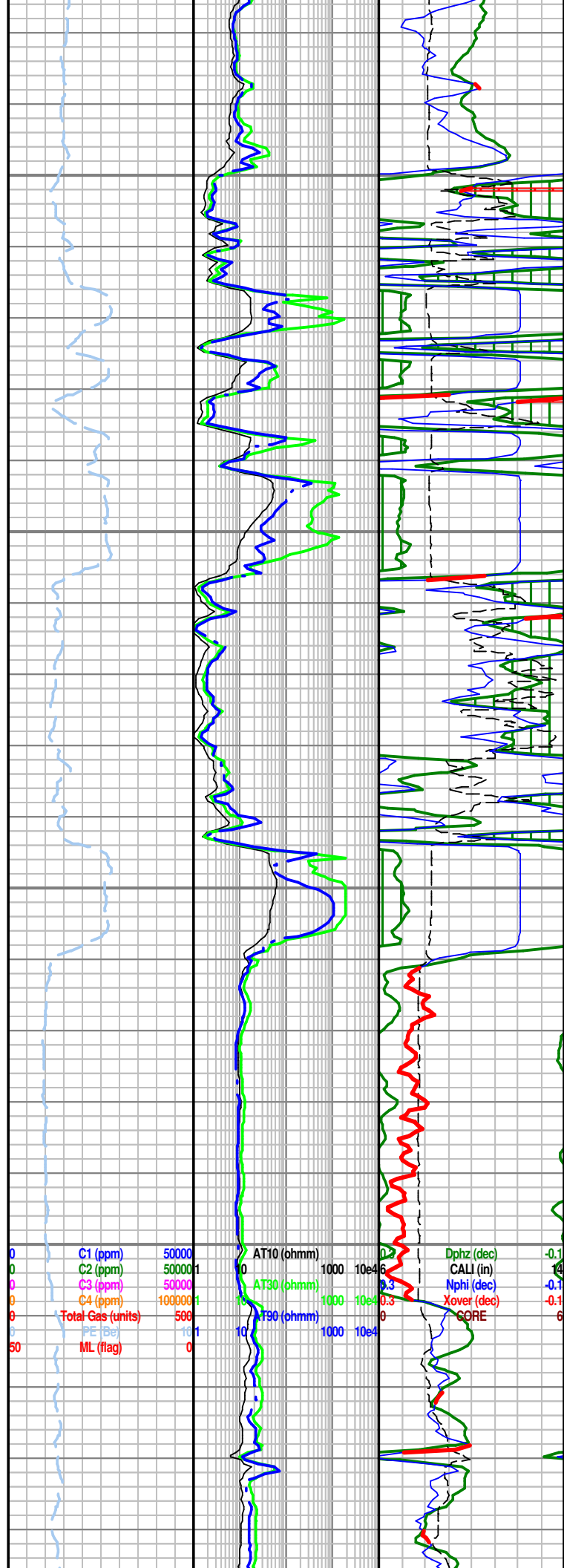


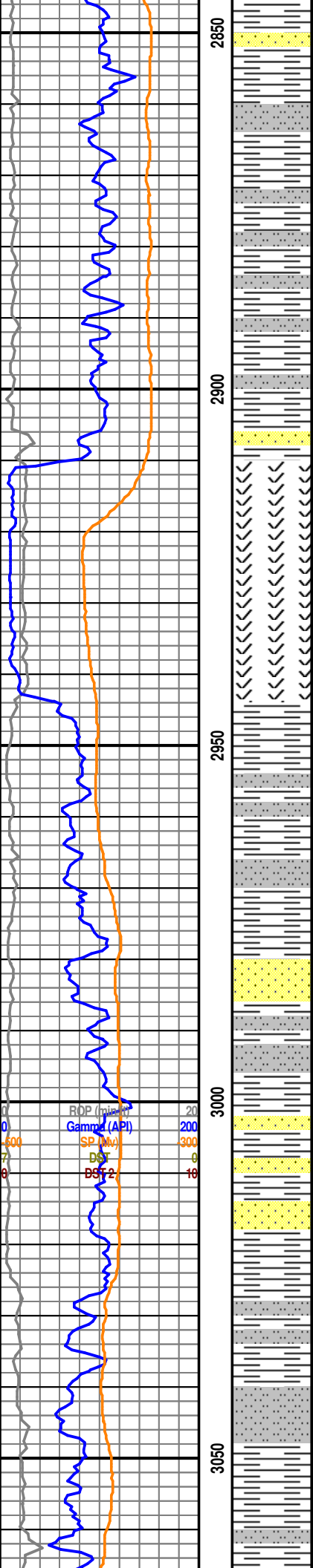




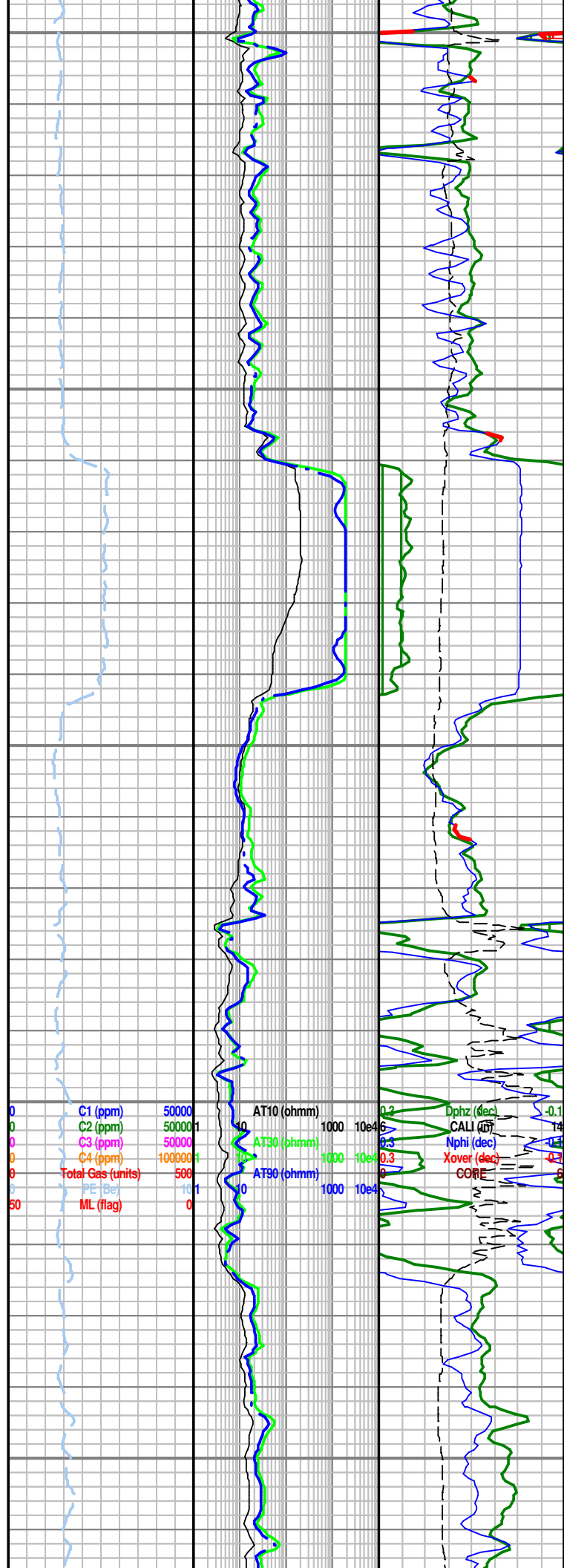


Blaine @ log 2666' (+1599)

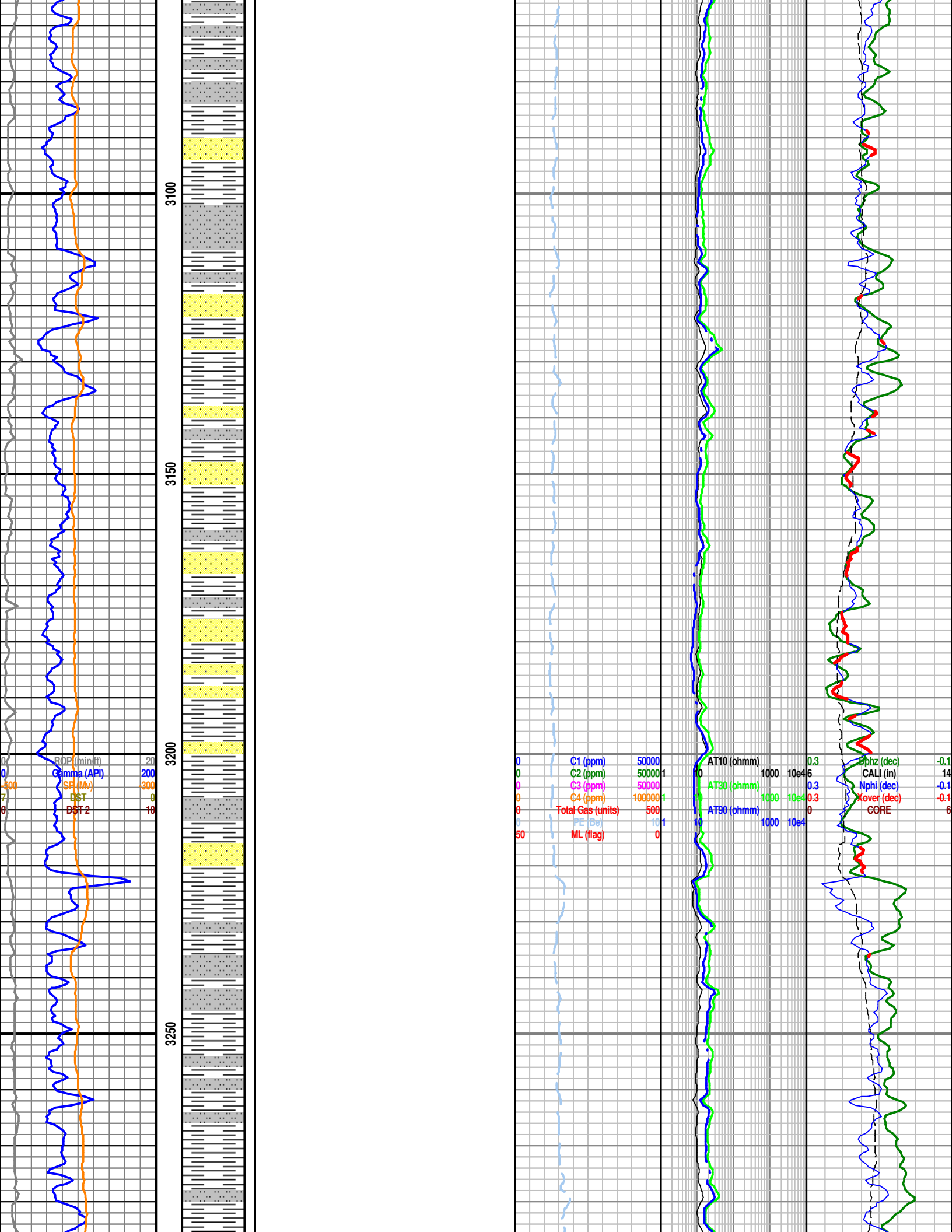




Stone Corral @ log 2910' (+1355)

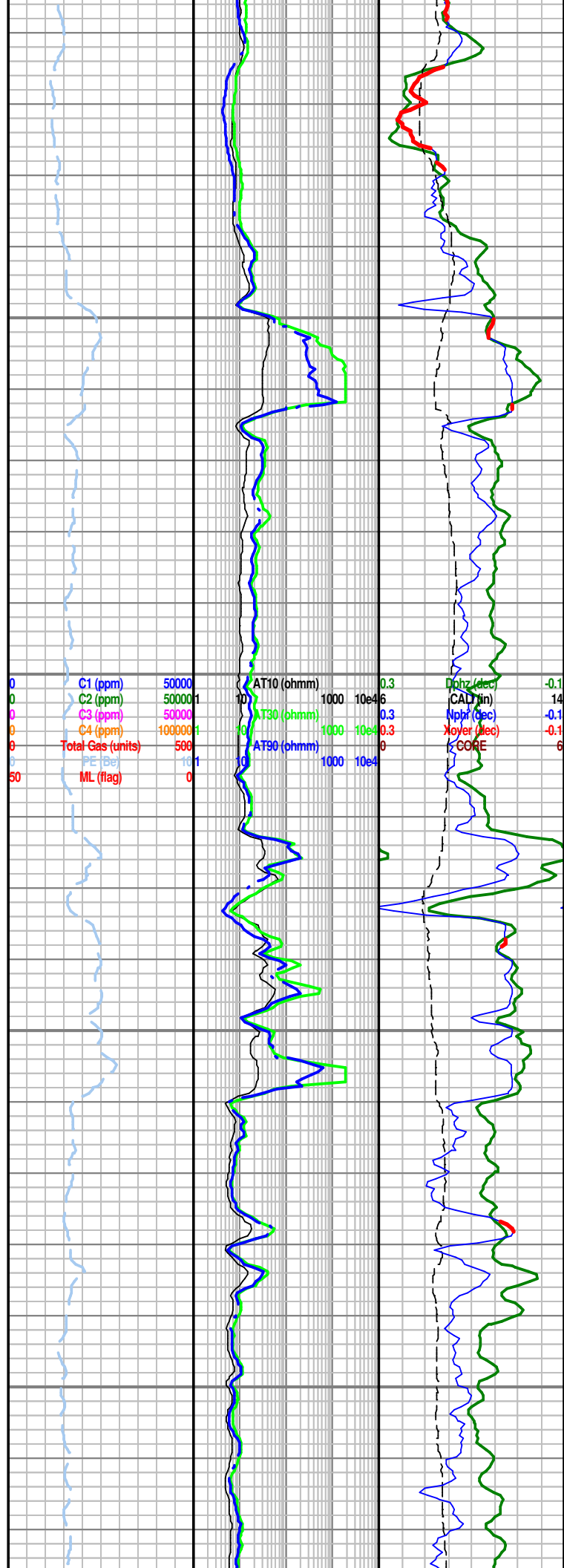
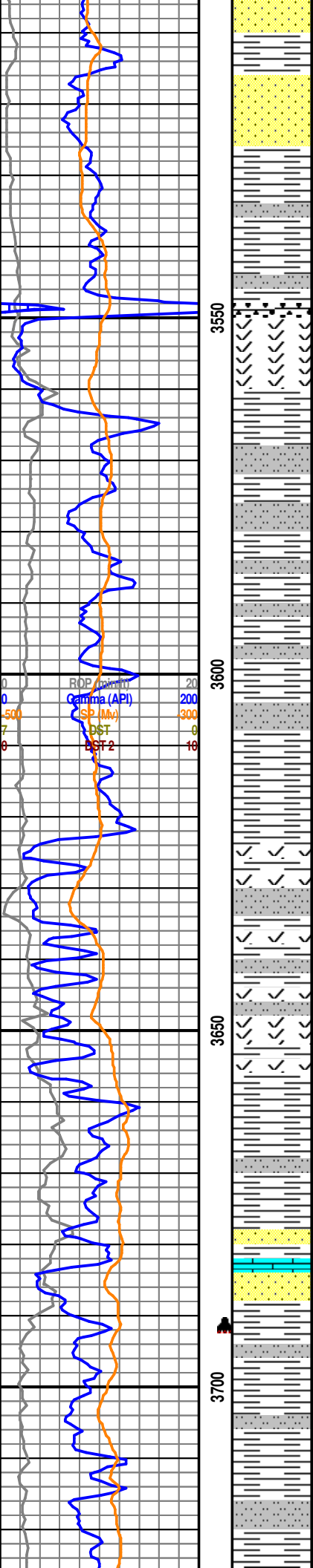


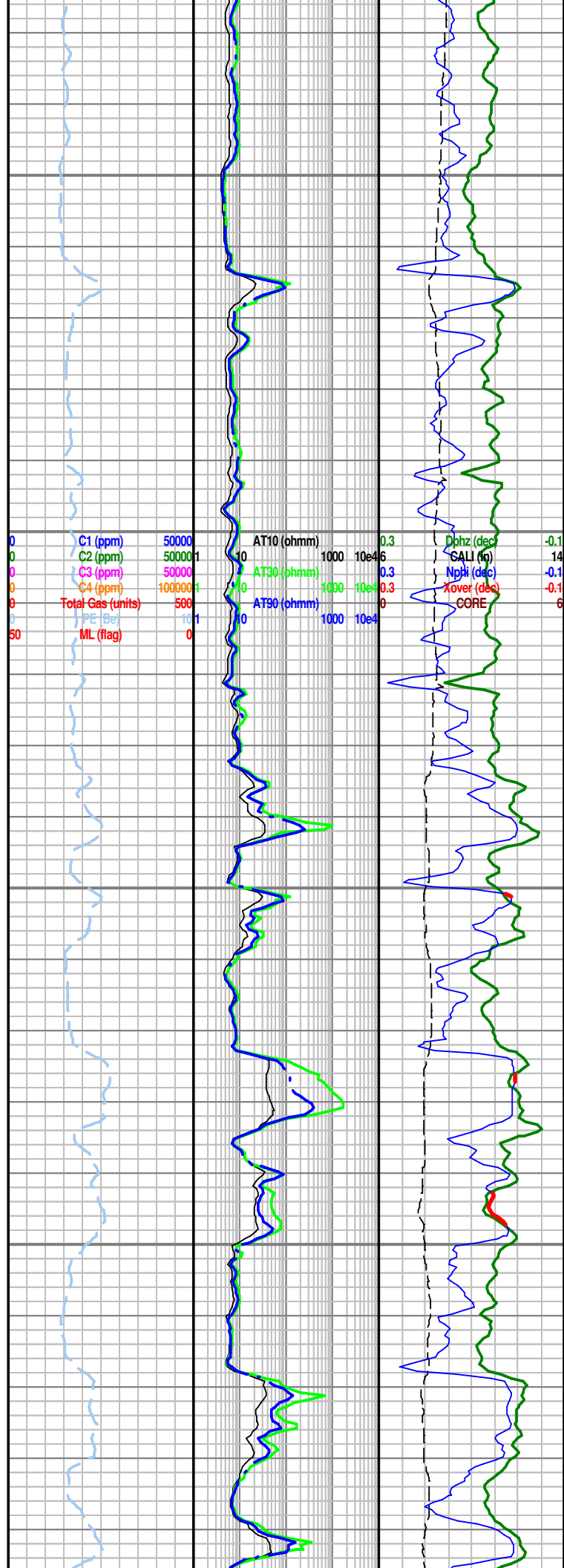
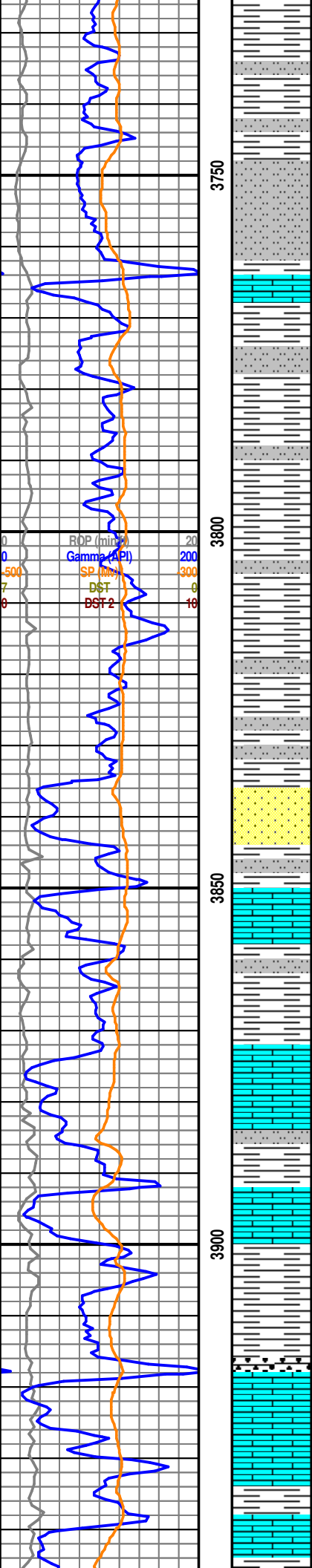


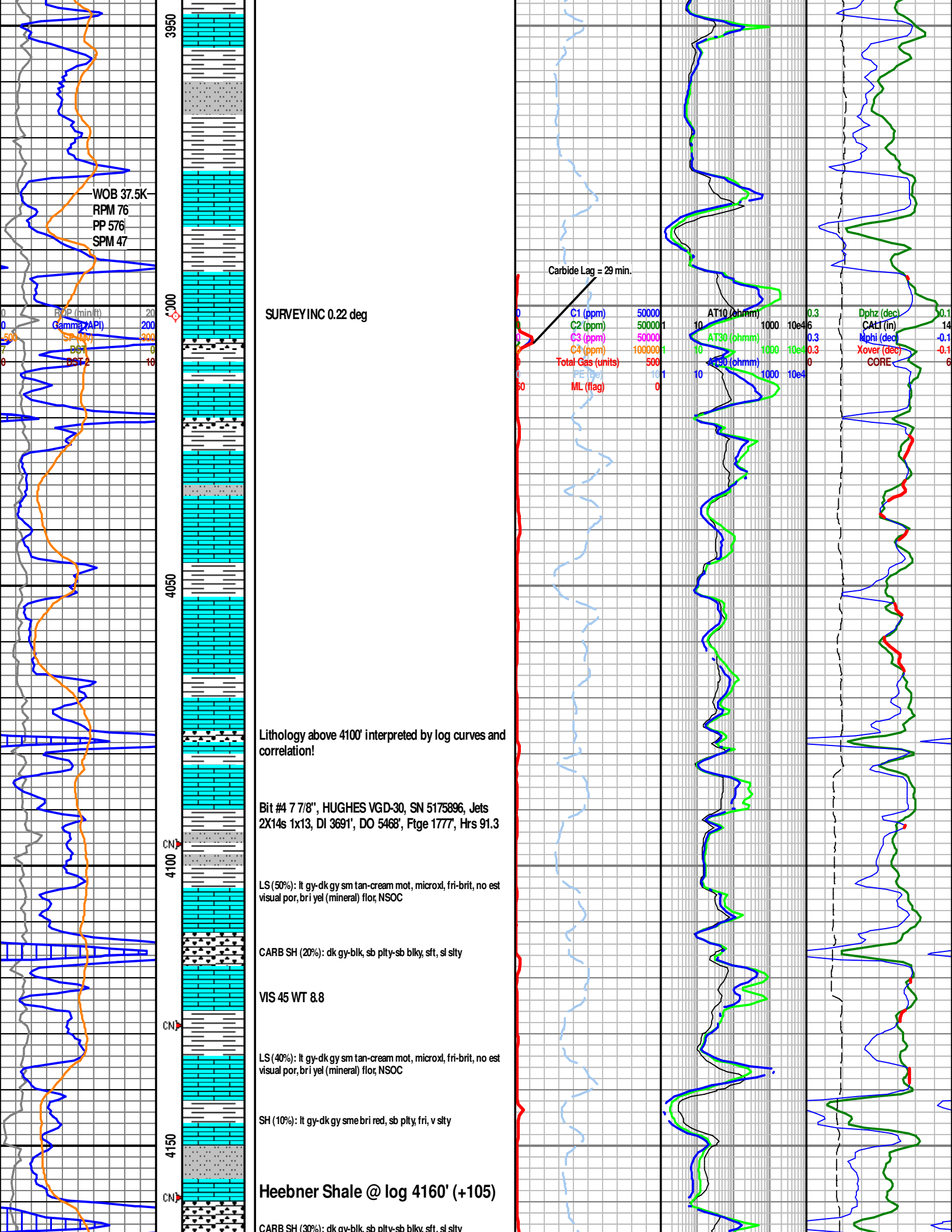












WOB 37.5K  
RPM 76  
PP 576  
SPM 47

ROP (min/ft)  
Gamma (API)  
SP (lb/ft)  
BGT 1  
BGT 2

Carbide Lag = 29 min.

SURVEY INC 0.22 deg

C1 (ppm)  
C2 (ppm)  
C3 (ppm)  
C4 (ppm)  
Total Gas (units)  
ML (flag)

AT10 (phmm)  
AT30 (phmm)  
AT300 (phmm)

Dphz (deg)  
CATI (in)  
Xover (deg)  
GORE

Lithology above 4100' interpreted by log curves and correlation!

Bit #4 7 7/8", HUGHES VGD-30, SN 5175896, Jets 2X14s 1x13, DI 3691', DO 5468', Ftge 1777, Hrs 91.3

LS (50%): lt gy-dk gy sm tan-cream mot, microxl, fri-brit, no est visual por, bri yel (mineral) flor, NSOC

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

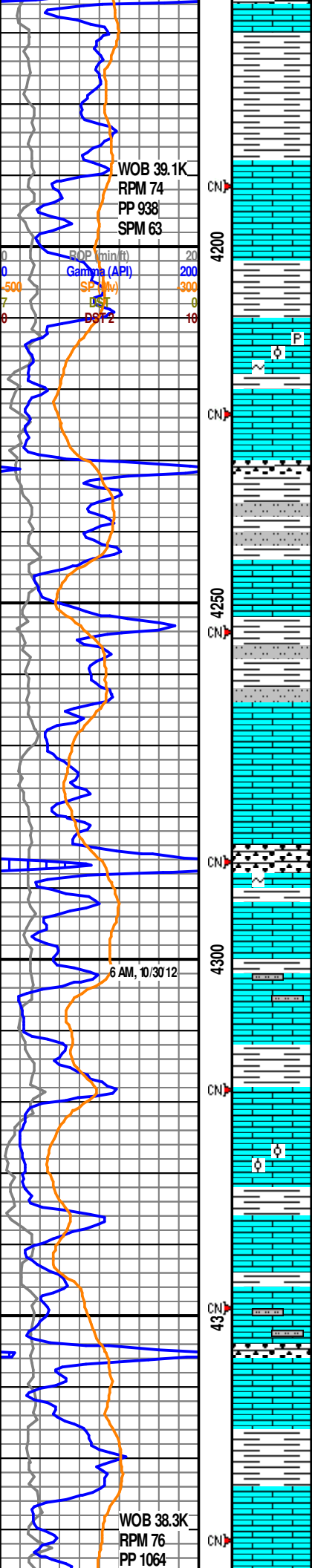
VIS 45 WT 8.8

LS (40%): lt gy-dk gy sm tan-cream mot, microxl, fri-brit, no est visual por, bri yel (mineral) flor, NSOC

SH (10%): lt gy-dk gy sme bri red, sb plty, fri, v slty

Heebner Shale @ log 4160' (+105)

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



SH (40%): lt gy-dk gy sme bri red, sb plty, fri, v slty

LS (40%): lt gy-dk gy sm tan-cream mot, microxl, fri-brit, no est visual por, bri yel (mineral) flor, NSOC

VIS 44 WT 8.9

### Lansing @ log 4210' (+55)

LS (65%): bcm lt gy-lt tan, micro xl, v hd, slool w/ chk matrix and calc infill, no est visual por, bri yel (mineral) flor, NSOC, tr dism pyrite, tr glauc

SH (40%): lt gy-dk gy sme bri red, sb plty, fri, v slty

LS (40%): lt gy-dk gy sm tan-cream mot, microxl, fri-brit, 10% visual vuggy por, bri yel (mineral) flor, NSOC

SLTST (20%): lt red/brn, vfg, brit

LS (60%): lt gy-dk gy sm tan-cream mot, microxl, fri-brit, no est visual por, dull yel (mineral) flor, NSOC

LS (80%): lt gy-off whi sm tan-cream mot, microxl, brit, no est visual por, dull yel (mineral) flor, NSOC, tr glauc

SLTST (5%): dk red/brn, vfg, brit

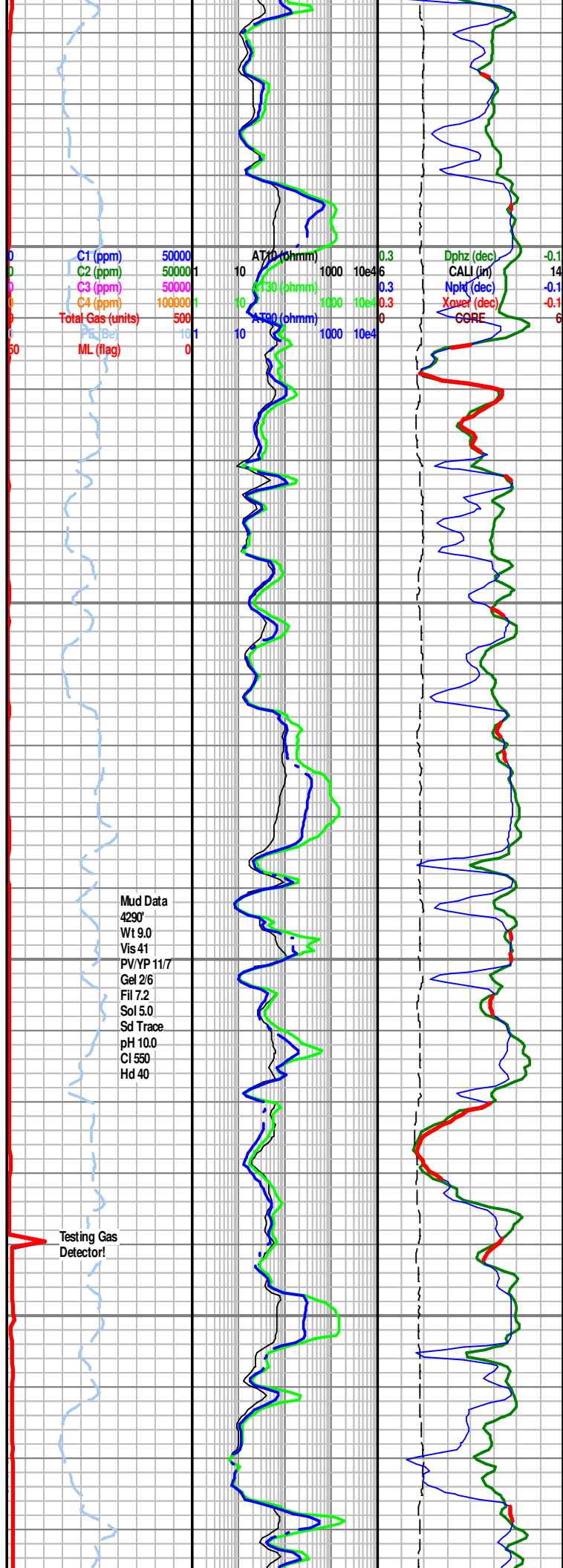
LS (80%): lt gy-off whi sm tan-cream mot, microxl, fri, no est visual por, bri yel (mineral) flor, NSOC

LS (65%): lt gy-lt tan, micro xl, v hd, wool w/ chk matrix and calc infill, good intxl and vuggy porous est 12% tr oomoldic por, v poor perm, v spotty lt brn stn, v spotty v bri lt yel flor, wk odor, wispy stmg lt yel cuts

SLTST (5%): dk red/brn, vfg, sft-fri

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

LS (80%): lt gy-off whi sm tan-cream mot, microxl, v hd, no est visual por, dull yel (mineral) flor, NSOC





SPM 63

4400

ROP (min ft) 20  
Gamma (API) 200  
SP (mV) 300  
BPT 0  
BPT-2 10

CN

CARB SH (10%): dk gy-blk, sb plty-sb blk, hd, sl slty

VIS 47 WT 9.1

DOL (25%): lt gy, fxl-vfxl, sucrosic, clean, fri, 6% est visual por, NSFOC

LS (70%): lt gy-dk gy, micro xl-vfxl, fri, ool w/ calc infill, no est visual por, v spotty v bri lt yel flr, v wk milky resid ring lt yel cut

DOL (15%): lt gy, fxl-vfxl, sucrosic, clean, v sft, 6% est visual por, NSFOC

SH (20%): blk, sb plty-sb blk, hd, carb, slty

CN

CARB SH (15%): dk gy-blk, sb plty-sb blk, hd, sl slty

LS (80%): lt gy-dk gy, micro xl-vfxl, fri, calc infill, no est visual por, v spotty v bri lt yel flr, v wk milky resid ring lt yel cut

LS (75%): lt gy-dk gy, microxl, fri, no est visual por, dull yel (mineral) flr, NSOC

LS (85%): lt gy-dk gy, micro xl-vfxl, fri, calc infill, rare int xl and vuggy porous est 10%, v spotty v bri lt yel flr, v wk wispy resid ring lt yel cut

CARB SH (20%): dk gy-blk, sb plty-sb blk, hd, sl slty

LS (75%): lt gy-off whi, microxl, fri, no est visual por tr vuggy por est 10%, dull yel (mineral) flr, NSOC

SURVEYINC 0.97 deg

LS (70%): lt gy-off whi, microxl, fri, no est visual por, dull yel (mineral) flr, NSOC

SH (20%): blk, sb plty-sb blk, firm, carb, slty

CN

LS (60%): lt gy-off whi, microxl, fri, no est visual por, dull yel (mineral) flr, NSOC

DOL (15%): tan, fxl-vfxl, sucrosic, clean, fri, 6-8% est visual por, NSFOC

LS (40%): lt gy-mostly dk gy, microxl, fri, no est visual por, v bri yel (mineral) flr, NSOC

CN

Marmaton @ log 4572' (-307)

LS (70%): lt gy-mostly dk gy, microxl, fri, no est visual por, v bri yel (mineral) flr, NSOC

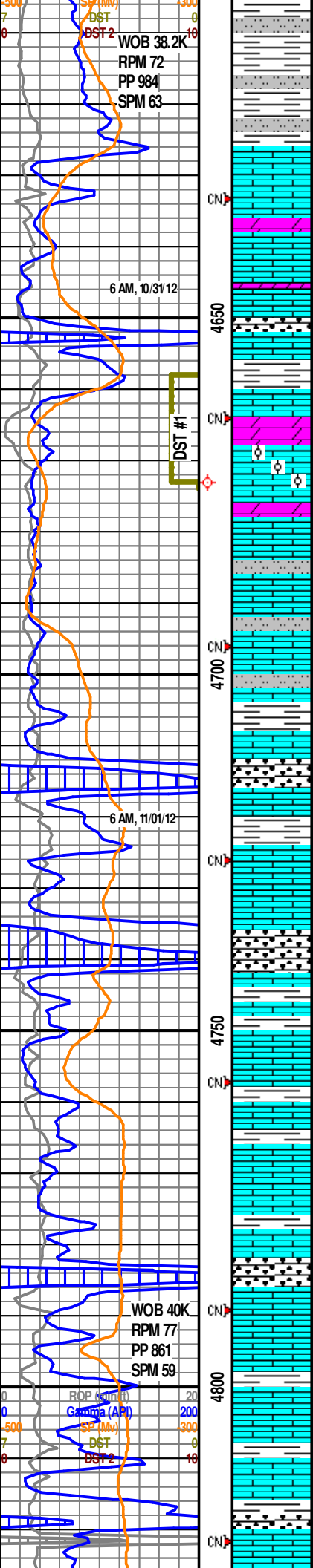
SLTST (5%): dk red/brn, vfg, firm

VIS 42 WT 9.0

C1 (ppm) 50000  
C2 (ppm) 50000  
C3 (ppm) 50000  
C4 (ppm) 100000  
Total Gas (units) 500  
PE (deg) 10  
ML (flag) 0

AT10 (ohmm) 1000  
AT30 (ohmm) 1000  
AT50 (ohmm) 1000

Dphz (deg) 0.3  
CALL (in) 14  
Nphi (deg) 0.1  
Xover (deg) 0.1  
GORE 6



SH (50%): lt gy- dk gy blk, sb plty-sb blk, hd, sl carb, slty

### Pawnee mbr @ log 4627' (-362)

DOL (20%): tan, fg-vfg, sucrosic, clean, fri, 6-8% est visual por, NSFOC

LS (65%): lt gy-dk gy, microxl tr vfxl, fri, calc infill, rare intxl and vuggy porous est 10%, v spotty v bri lt yel flor, v spott y lt brn stn, mod odor, v wkstrmg resid ring lt yel cut

### Ft. Scott mbr @ log 4660' (-395)

DOL (50%): tan, fxl-vfxl, sucrosic, clean, fri, 6-8% est visual por, NSFOC

LS (65%): lt gy-dk gy, microxl tr vfxl, fri, vool w/ chk matrix and calc infill, scattered matrix por abnt oomoldic porous est 15%, questionable fair perm, near even bri lt yel flor, near even dk brn stn, strong odor, slow wk-fair strmg bri lt yel cut

### SURVEYINC 1.00 deg

DST #1, 4663'-4678' Log (4658'-4673')  
Conventional BH  
Times: 15-30-45-90  
1st open-BOB in 5 min. and held, 2nd open-BOB in 20 min. and held  
Recovered 1' of clean oil, 63' of OSCWM, 236' of water.  
Sampler: 1000ml water, 50k CI  
ISI 1279 FSI 1282 BHT 140 deg

### Cherokee @ log 4712' (-447)

LS (70%): lt gy, microxl tr vfxl, fri, calc infill, no est visual por, v spotty v bri lt yel flor, wk odor, v wk strmg resid ring lt yel cut

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

LS (70%): lt gy, microxl tr vfxl, fri, calc infill, no est visual por tr vuggy por est 10%, v spotty v bri lt yel flor, wk odor, v wk strmg resid ring lt yel cut

SH (20%): dk gy-blk, sb plty-sb blk, hd, sl slty, carb

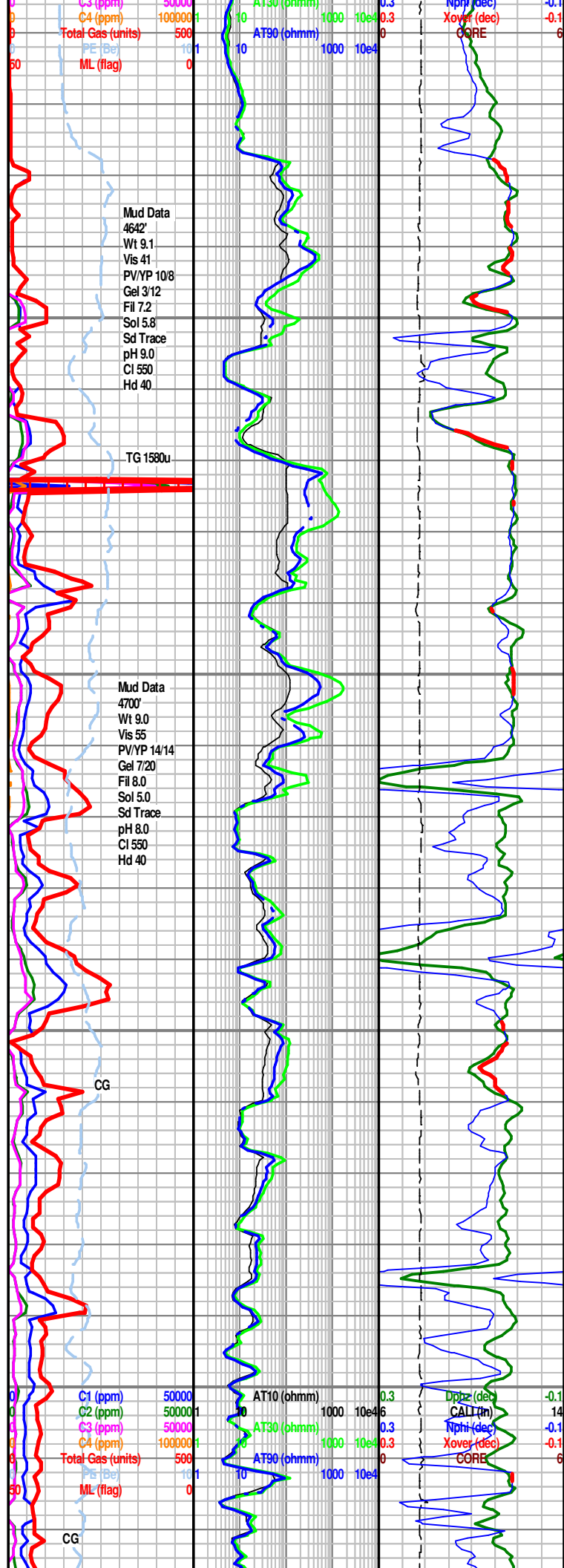
LS (75%): lt gy, microxl, fri, no est visual por, v dull yel (mineral) flor, NSOC

CARB SH (15%): dk gy-blk, sb plty-sb blk, hd, sl slty

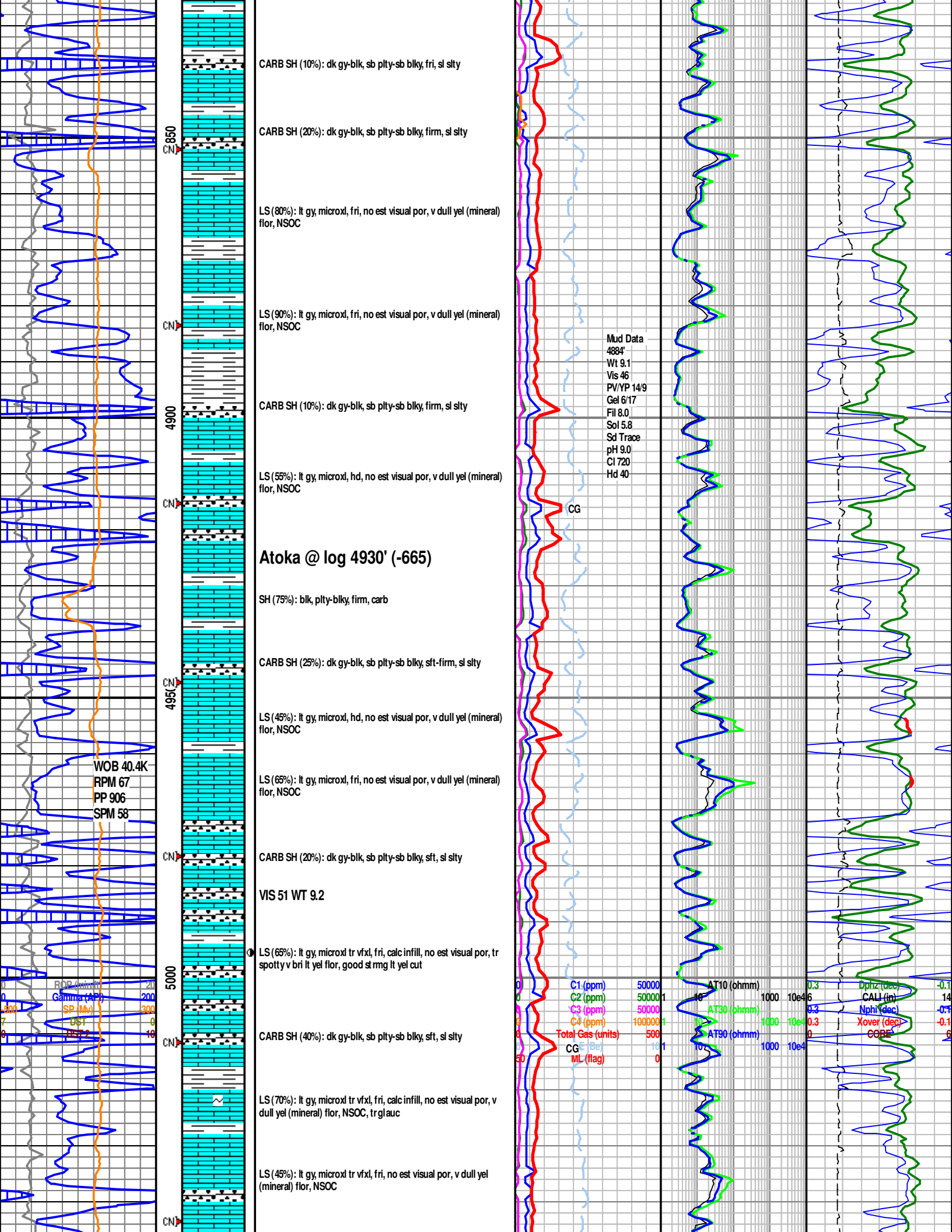
VIS 52 WT 9.0

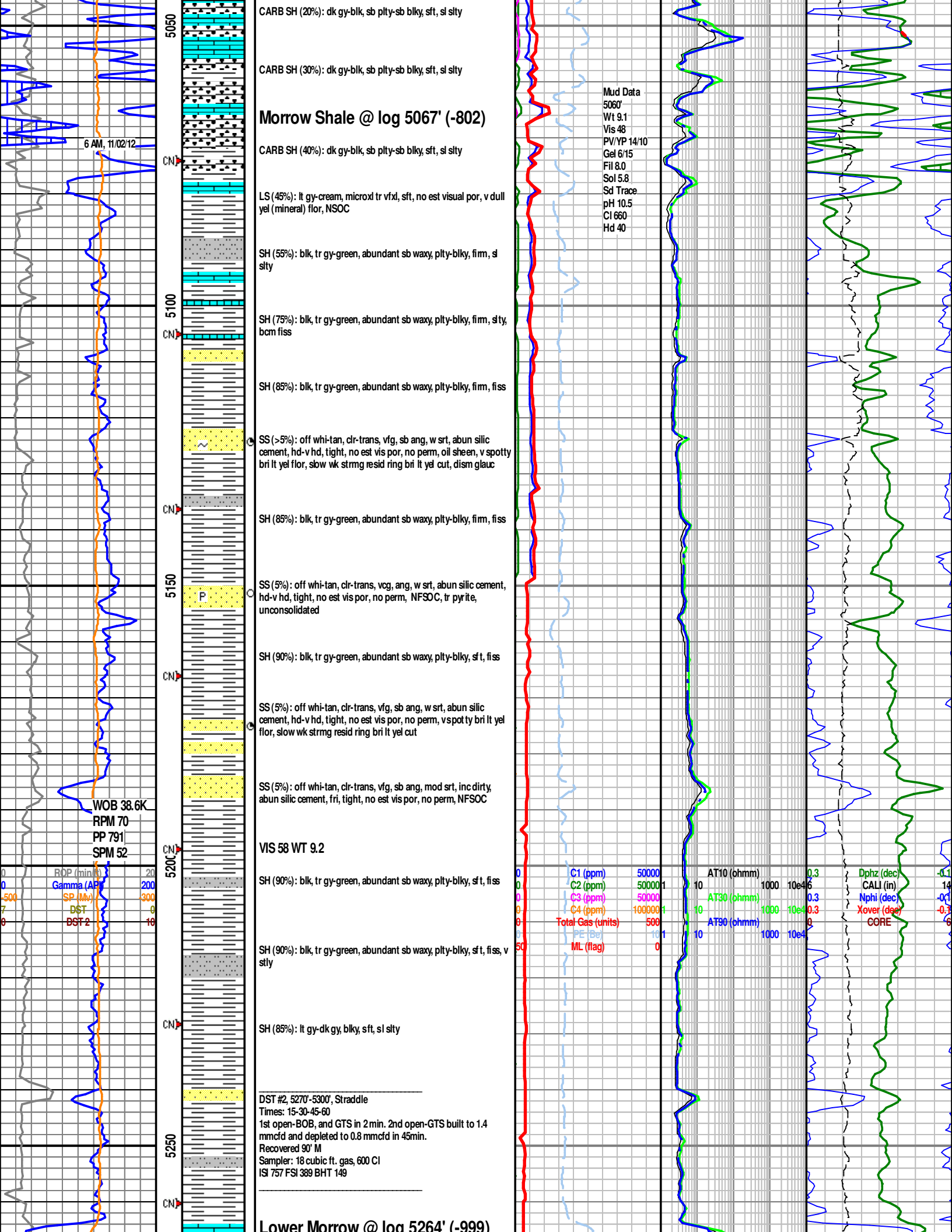
LS (80%): lt gy, microxl, firm, no est visual por, v dull yel (mineral) flor, NSOC

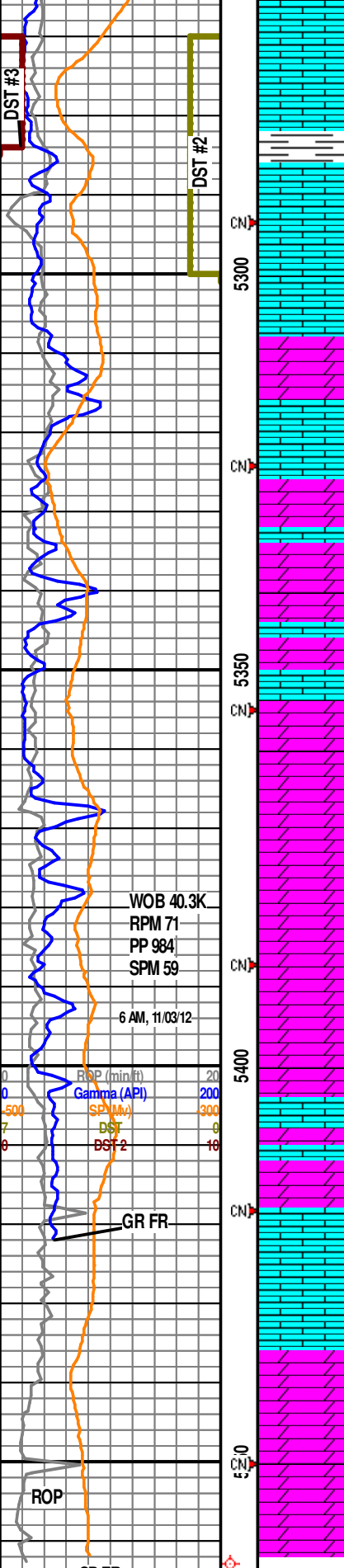
LS (90%): lt gy, microxl, firm, no est visual por, v dull yel (mineral) flor, NSOC











LS (55%): tan-whi-lt gy, microxl, firm, no est visual por, bri yel flor (mineral), NSOC

DST #2, 5270'-5284', Straddle  
Times: 5-30-120-120  
1st open-BOB, and GTS in 3.5 min. 2nd open-GTS built to 0.2 mmcf and depleted to weak to gauge 110 min.  
Recovered 30' M  
Sampler: 5.6 cubic ft. gas, 600 CI  
ISI 382 FSI 125 BHT 149

### Spergen @ log 5308' (-1043)

DOL (20%): off whi, fxl-vfxl, subsucrosic, fri, no est visual por, NSFOC

DOL (20%): off whi, fxl-vfxl, subsucrosic, fri, no est visual por, NSFOC

DOL (30%): cream-off whi, fxl-vfxl, subsucrosic, fri, no est visual por, NSFOC

DOL (40%): lt brn-tan, fxl-vfxl, subsucrosic, brit, no est visual por, NSFOC

DOL (50%): lt brn-tan, fxl-vfxl, subsucrosic, brit, no est visual por, poor perm, v spotty bri lt yel flor, v spott y lt brn stn, slow wk strmg resid ring bri lt yel cut

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

VIS 64 WT 9.3

DOL (70%): lt brn-tan, fxl-vfxl, subsucrosic, fri, no est visual por, NSFOC

DOL (80%): lt brn-tan, fxl-vfxl, subsucrosic, fri, no est visual por, NSFOC

LS (35%): tan-whi-lt gy, microxl, firm, no est visual por, bri yel flor (mineral), NSOC

DOL (80%): lt brn-tan, fxl-vfxl, subsucrosic, brit, no est visual por, NSFOC

SURVEYINC 2.98 deg

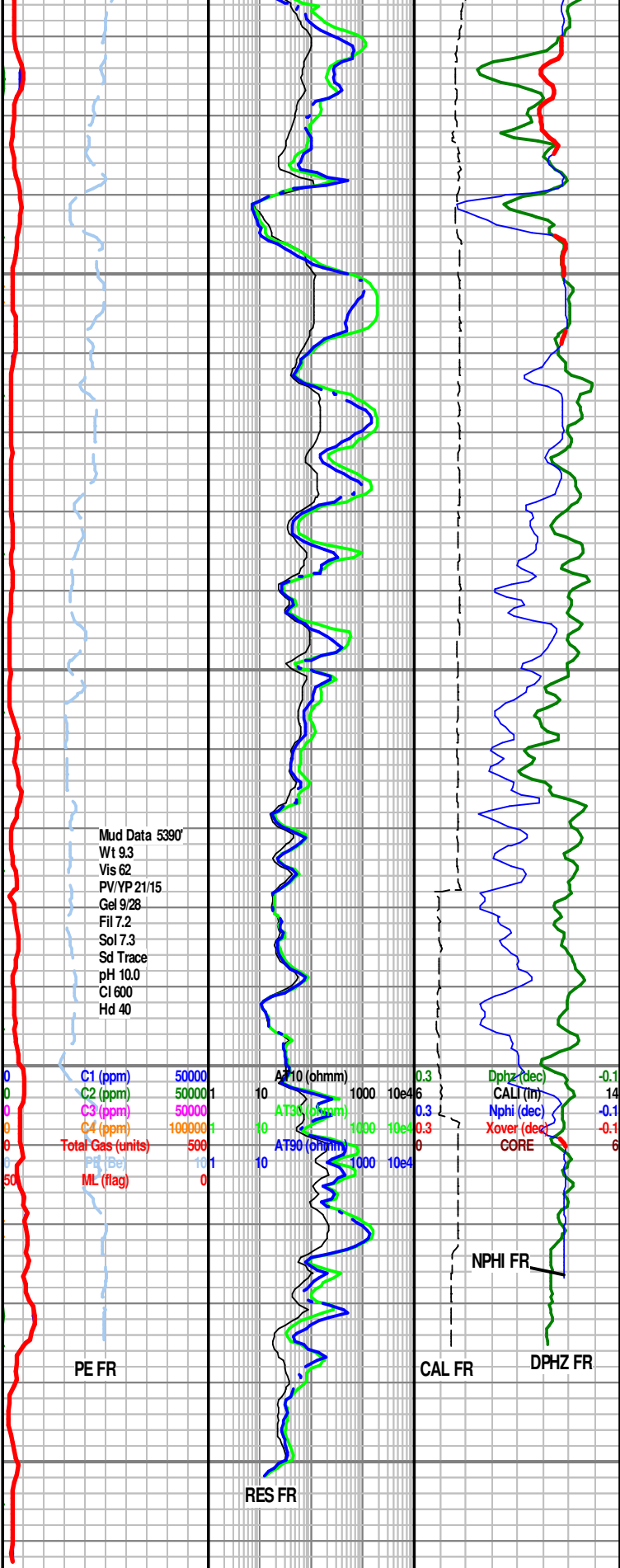
Drillers TD: 5468' (MD)

(reached on 11/03/12 at 10:15am)

Loggers TD: 5464' (MD)

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

4006'- 0.22°; 4512'- 0.97°; 4678'- 1.00°; 5468'- 2.98°



Mud Data 5390'

Wt 9.3  
Vis 62  
PV/YP 21/15  
Gel 9/28  
Fil 7.2  
Sol 7.3  
Sd Trace  
pH 10.0  
CI 600  
Hd 40

C1 (ppm)	50000	AT10 (ohmm)	0.3	Dphz (dec)	-0.1
C2 (ppm)	50000	AT30 (ohmm)	0.3	CALI (in)	14
C3 (ppm)	50000	AT90 (ohmm)	0.3	Nphi (dec)	-0.1
C4 (ppm)	100000			Xover (dec)	-0.1
Total Gas (units)	500			GORE	6
ML (flag)	0				

Mud Data 5468'

Wt 9.3  
Vis 69  
PV/YP 22/16  
Gel 9/26  
Fil 7.6  
Sol 7.3  
Sd Trace  
pH 9.5  
CI 600

5500	-----Plugging Procedure-----		Hd 40
	50 sks	5300'	
	40 sks	5065'	
	40 sks	4663'	
	40 sks	2250'	
	40 sks	1500'	
	40 sks	484'	
	15 sks	surface	
	15 sks	rathole	
	10 sks	mousehole	
	300 sks	total	
Thank you for using our service!			
RYAN SCRIBNER Goolsby Brothers & Associates (November 04, 2012)			