



## Oil & Gas Ltd.

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

Well Name: Snowmass 44-32  
Location: SESE Sec 32-T12S-R47W, Cheyenne County, Colorado  
License Number: API: 05-017-07725  
Spud Date: 10/02/12  
Surface Coordinates: 689' FSL & 643' FEL  
Lat: 38.95554, Long: -102.68881  
Bottom Hole Coordinates: Same  
Ground Elevation (ft): 4517'  
Logged Interval (ft): 4400' To: 5858'  
Formation: Morrow, (TD in Spergen).  
Type of Drilling Fluid: LSND, Hydro Resources  
K.B. Elevation (ft): 4528'  
Total Depth (ft): 5852' LTD  
Region: Wildcat  
Drilling Completed: 10/20/12  
Printed by STRIP.LOG from WellSight Systems 1-800-447-1534 [www.WellSight.com](http://www.WellSight.com)

### CORE

Contractor: Halliburton, Core Sleeved and Picked Up By Core Lab.  
Core #: 1  
Formation: Morrow Shale  
Core Interval: From: 5544' To: 5606'  
Cut: 62'  
Recovered: 61'  
Bit type: Halliburton FC 4643A  
Size: 4 x 7.875  
Coring Time: 3.6

### 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

One test (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: Mark Lipner
- 3) Plugged and abandoned on October 21, 2012.

## ROCK TYPES

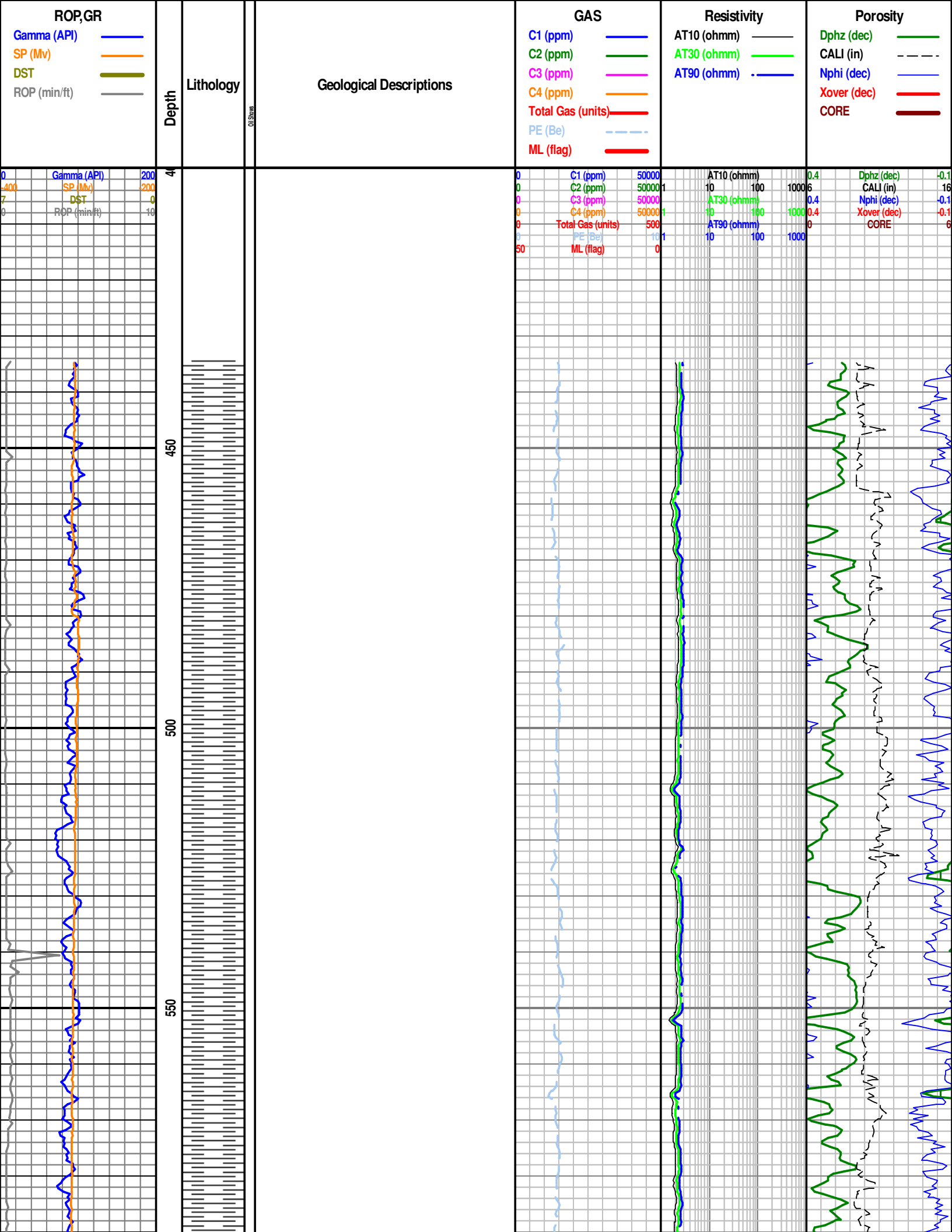
	ss_fg+		Clyst		Lmst		Shgy
	Carb sh		Coal		Meta		Ss
	Anhy		Congl		Mrlst		Till
	Bent		Dol		Salt		sltst
	Brec		Gyp		Shale		anhy1
	Cht		Igne		Shcol		chalk

## ACCESSORIES

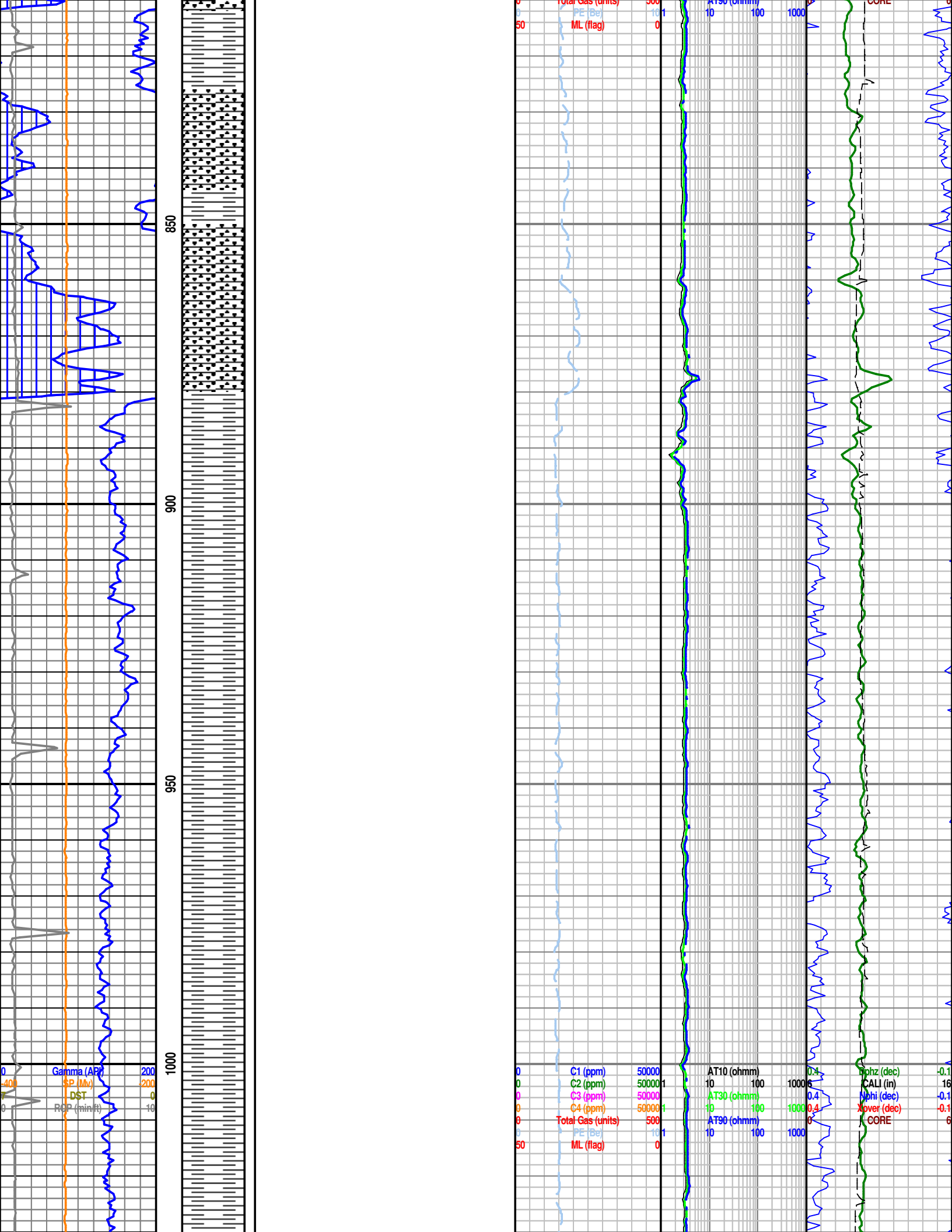
MINERAL			Marl		Coral		Dol
	Pyr		Minxl		Crin		Gyp
	Anhy		Nodule		Echin		Ls
	Arggrn		Phos		Fish		Mrst
	Arg		Pyr		Foram		Sltstrg
	Bent		Salt		Fossil		Ssstrg
	Bit		Sandy		Gastro		
	Brecfrag		Silt		Oolite		TEXTURE
	Calc		Sil		Ostra		Boundst
	Carb		Sulphur		Pelec		Chalky
	Chtdk		Tuff		Pellet		Cryxln
	Chtlt				Pisolite		Earthy
	Dol				Plant		Finexln
	Feldspar	FOSSIL			Strom		Grainst
	Ferrpel		Algae				Lithogr
	Ferr		Amph				Microxln
	Glau		Belm	STRINGER			Mudst
	Gyp		Bioclst		Anhy		Packst
	Hvymin		Brach		Arg		Wackest
	Kaol		Bryozoa		Bent		
			Cephal		Coal		

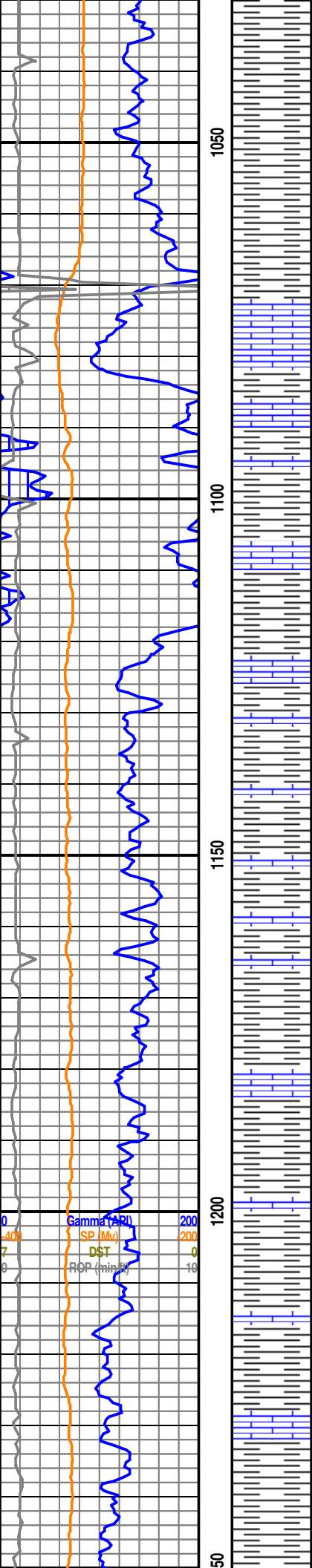
## OTHER SYMBOLS

<b>POROSITY TYPE</b>		Moderate	near even	Sidewall
Earthy		Poor	Ques	New bit casingr
Fenest			Dead	casing
Fracture		<b>ROUNDING</b>	vspotty	Survey
Inter		Rounded		Off bottom
Moldic		Subrnd	<b>INTERVALS</b>	conn
Organic		Subang	Core	perfs
Pinpoint		Angular	Dst	Survey(red)
Vuggy			casing	
		<b>OIL SHOWS</b>	<b>EVENTS</b>	
<b>SORTING</b>		Even	Rft	
Well		Spotted		

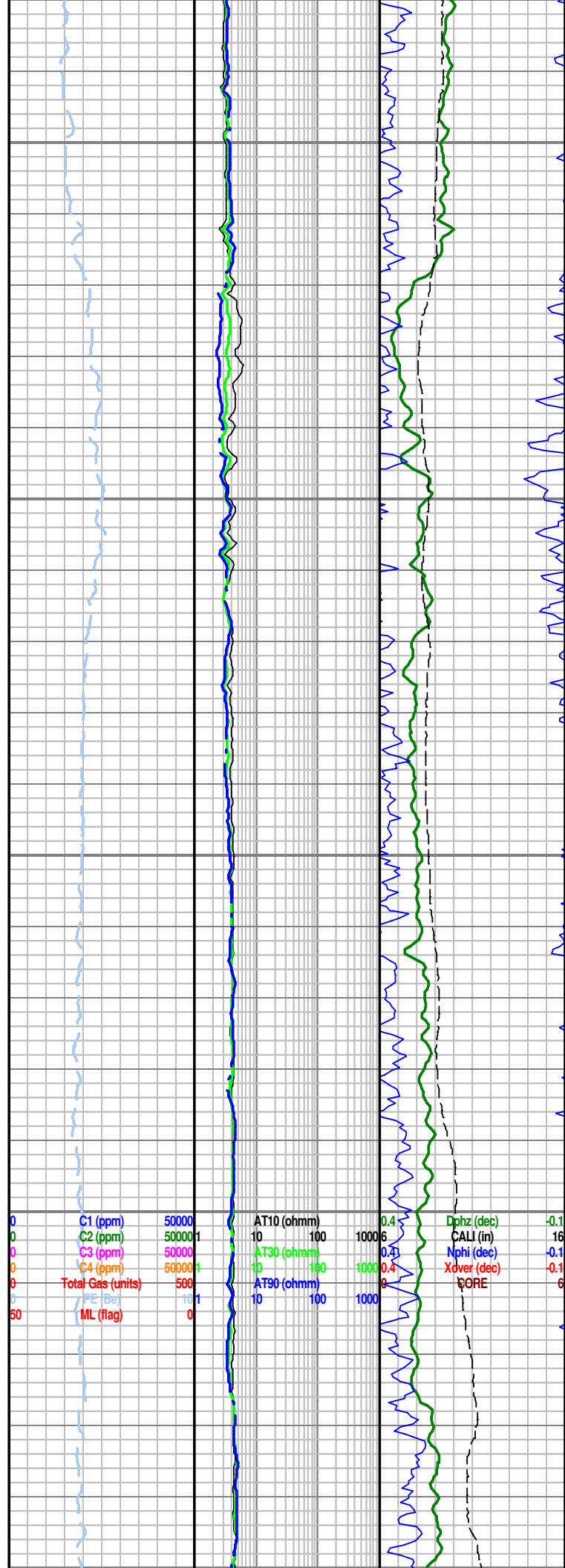


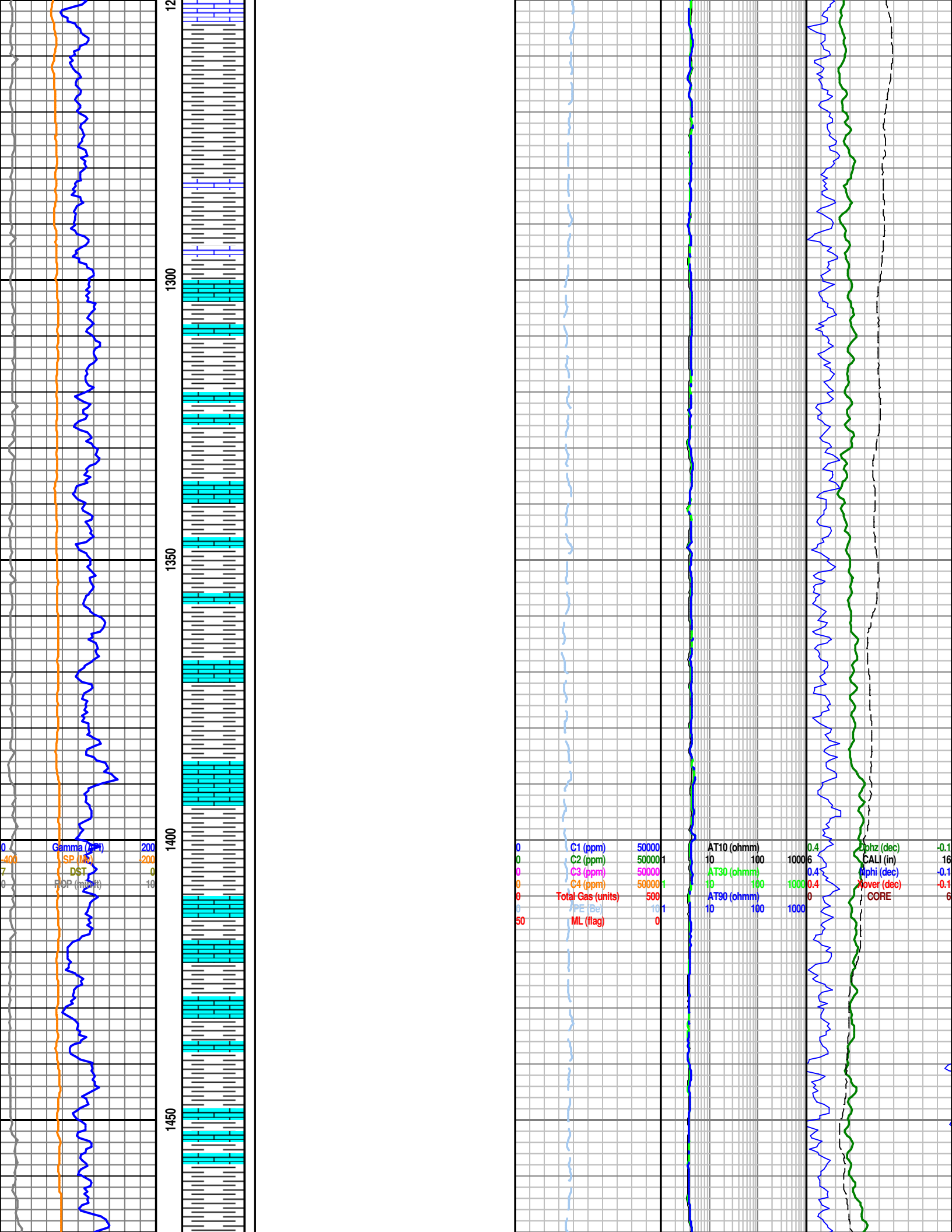


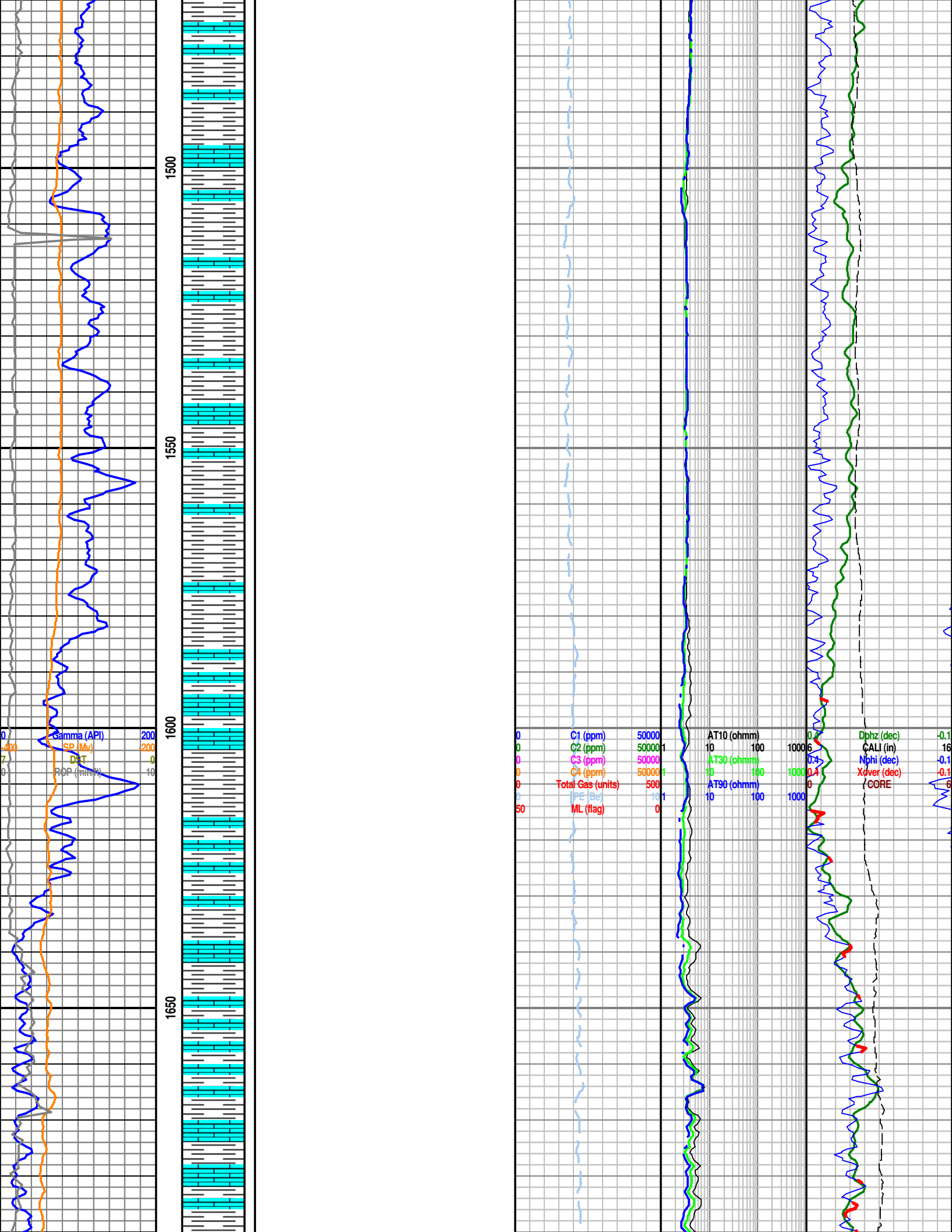




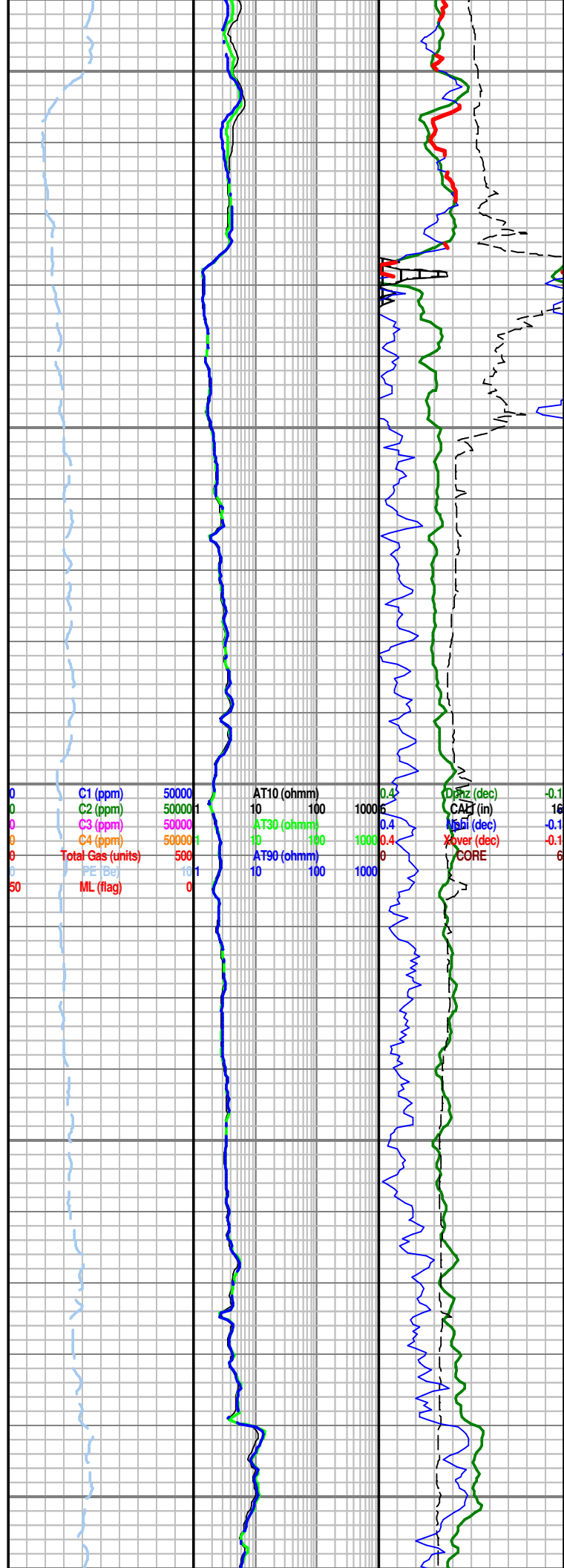
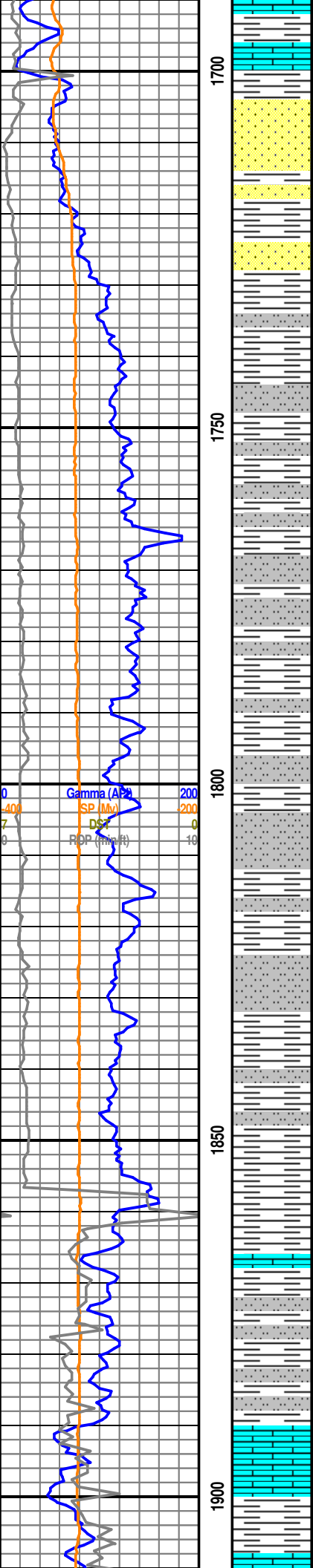
Niobrara @ log 1069' (+3459)

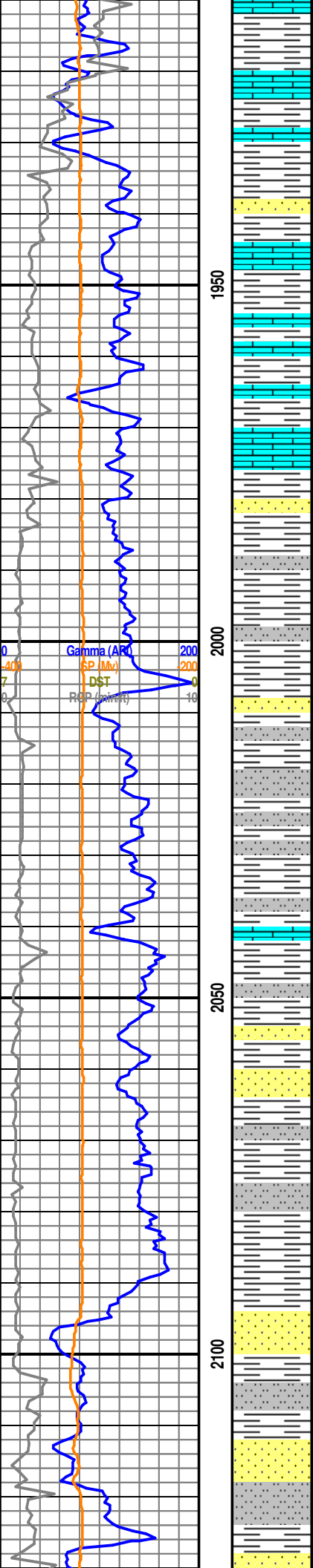




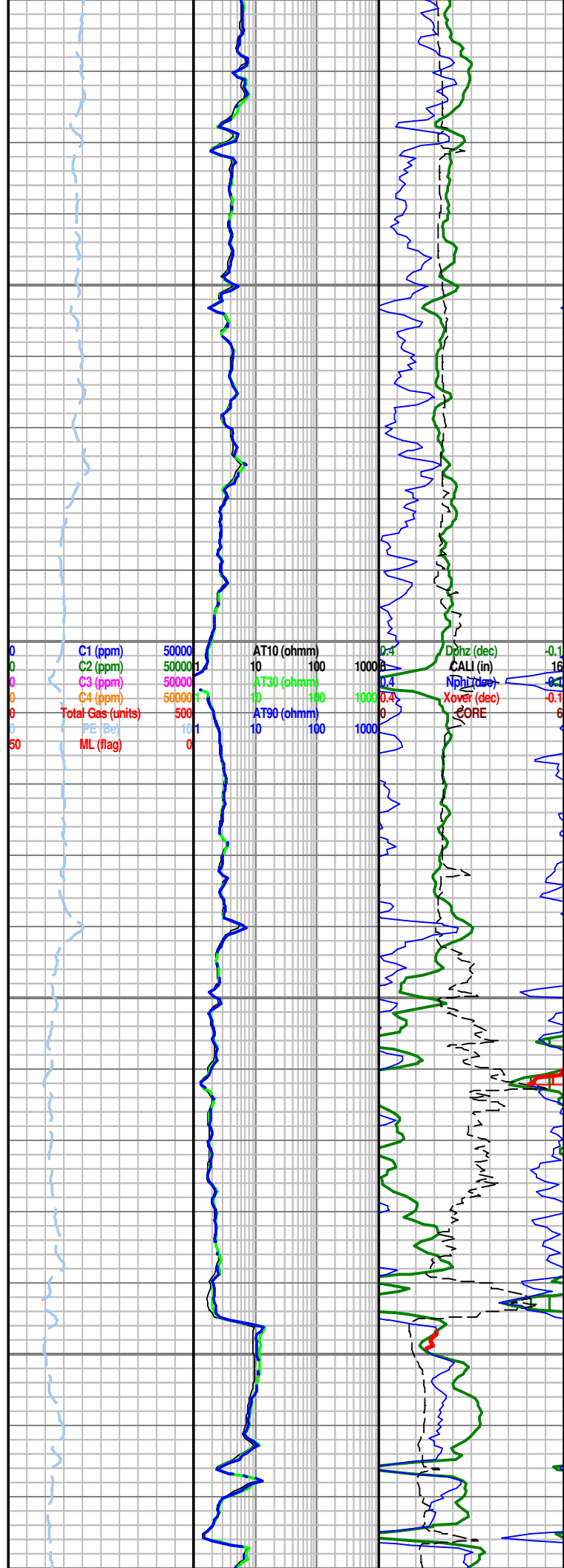


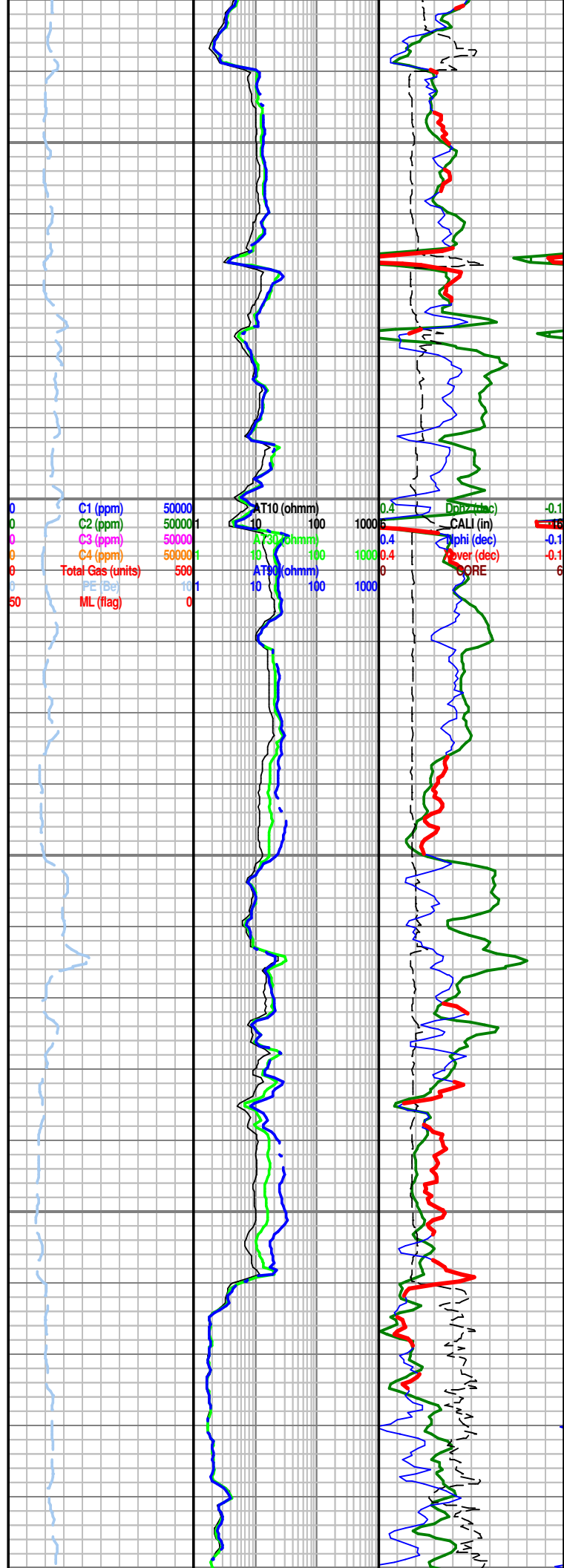
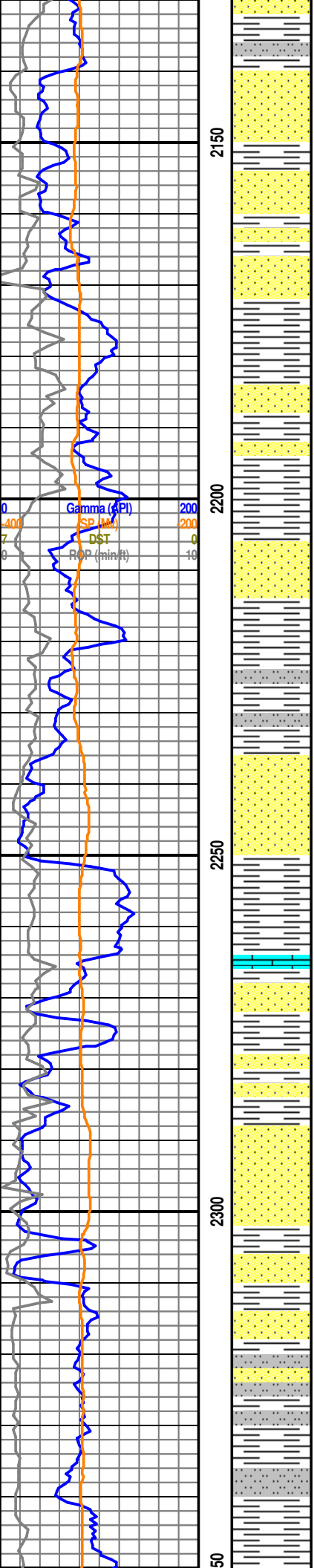


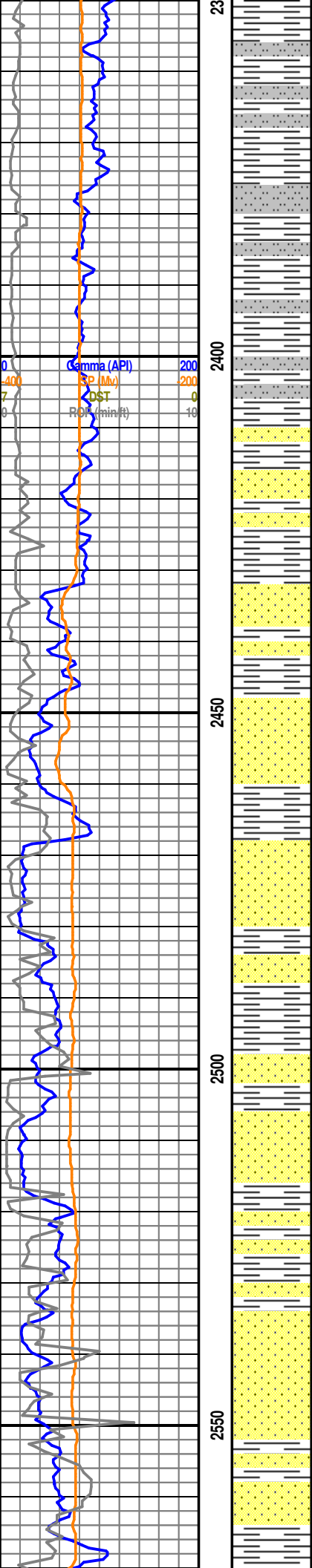




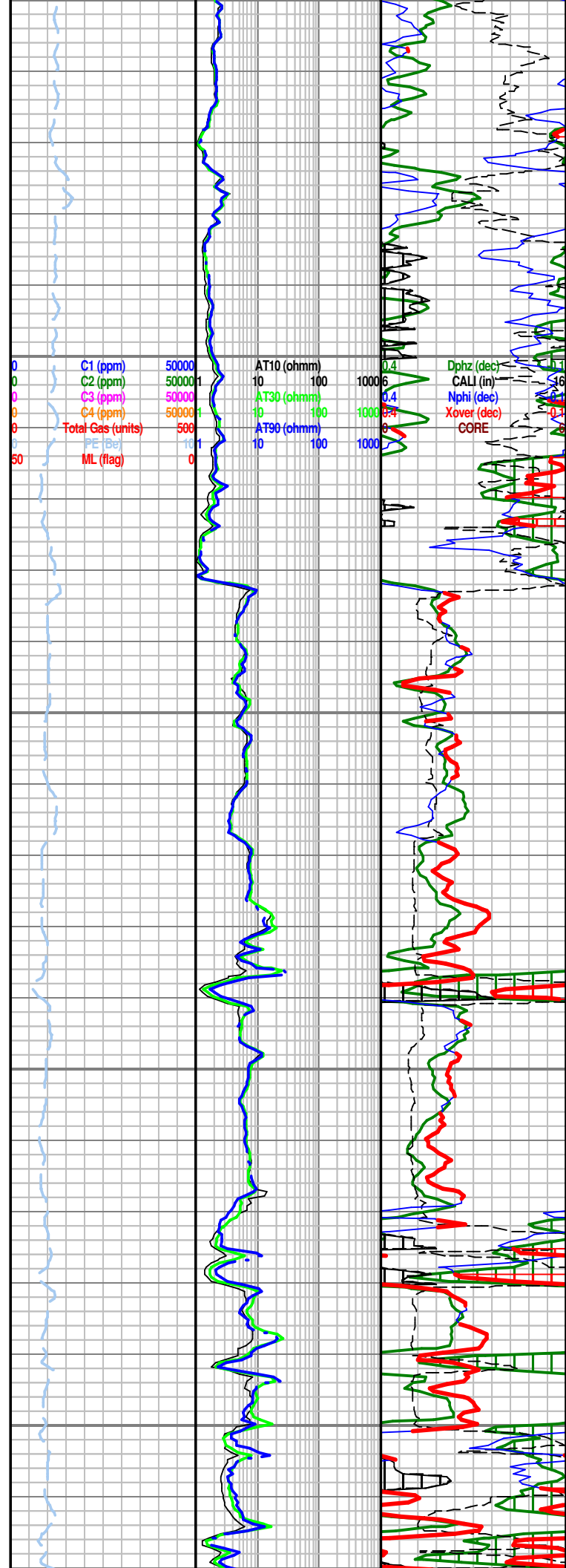
Dakota SS @ log 2095' (+2433)

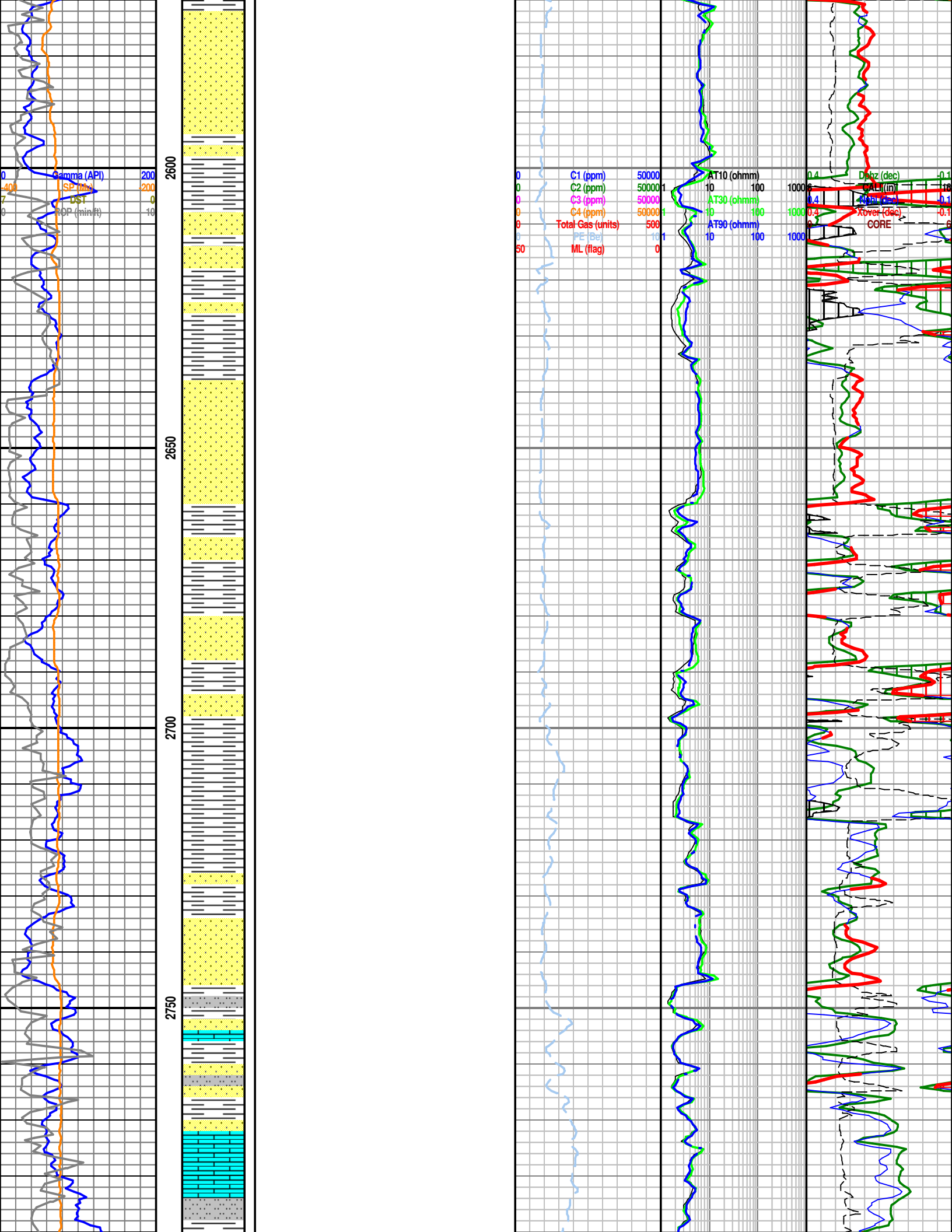


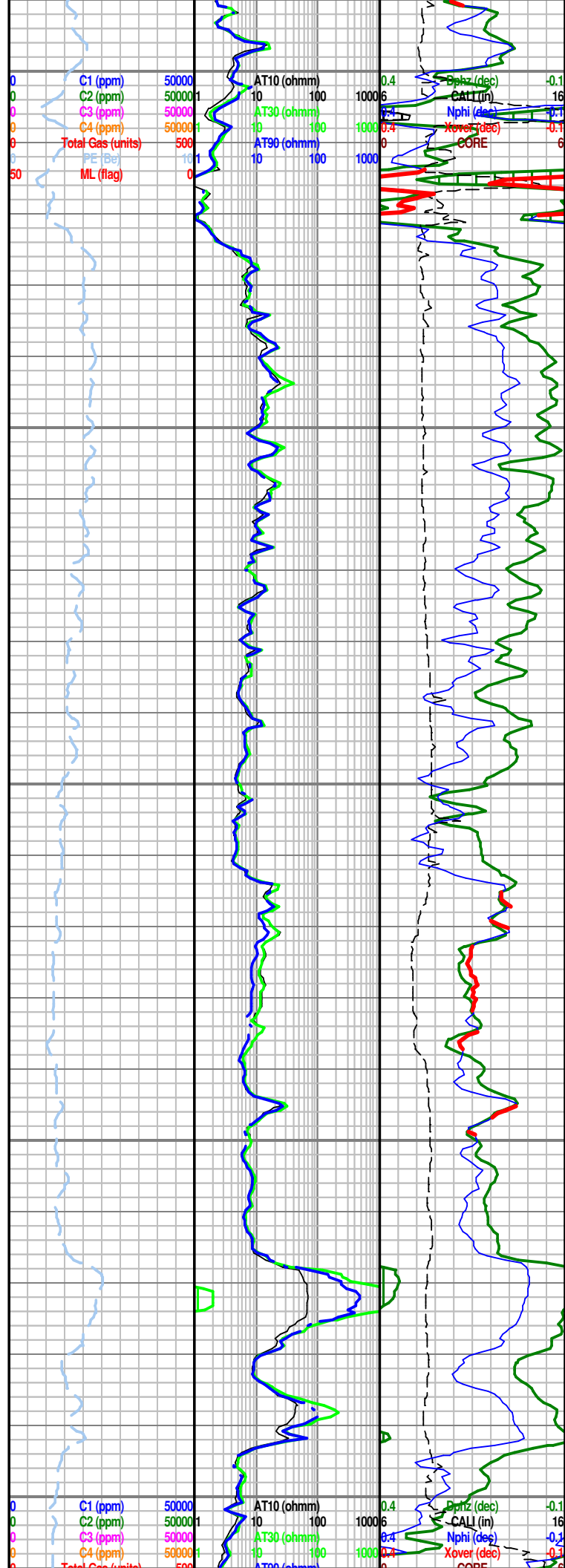
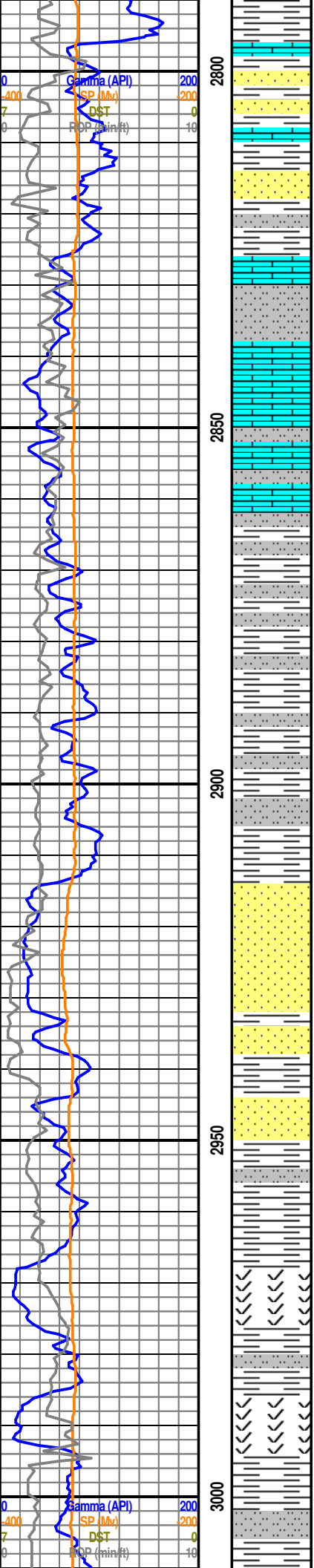




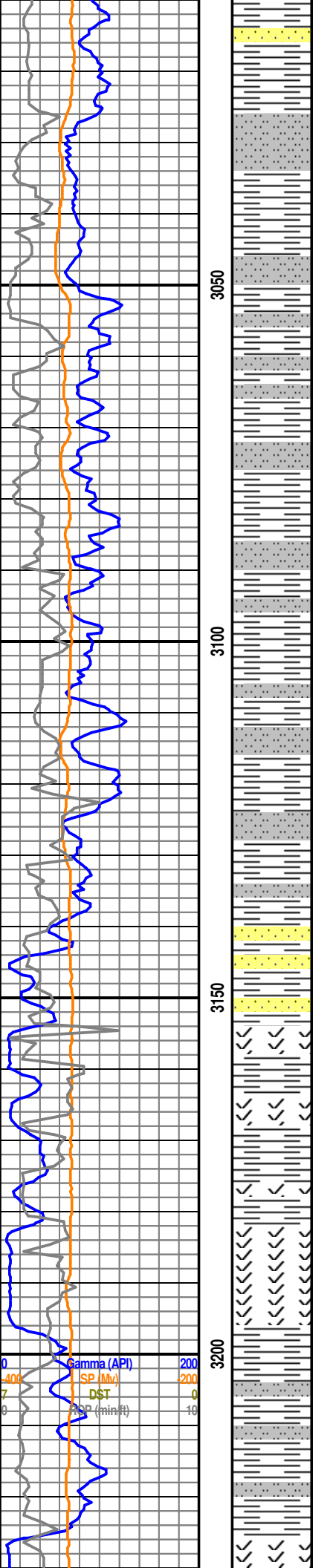
**Cheyenne SS @ log 2432' (+2096)**



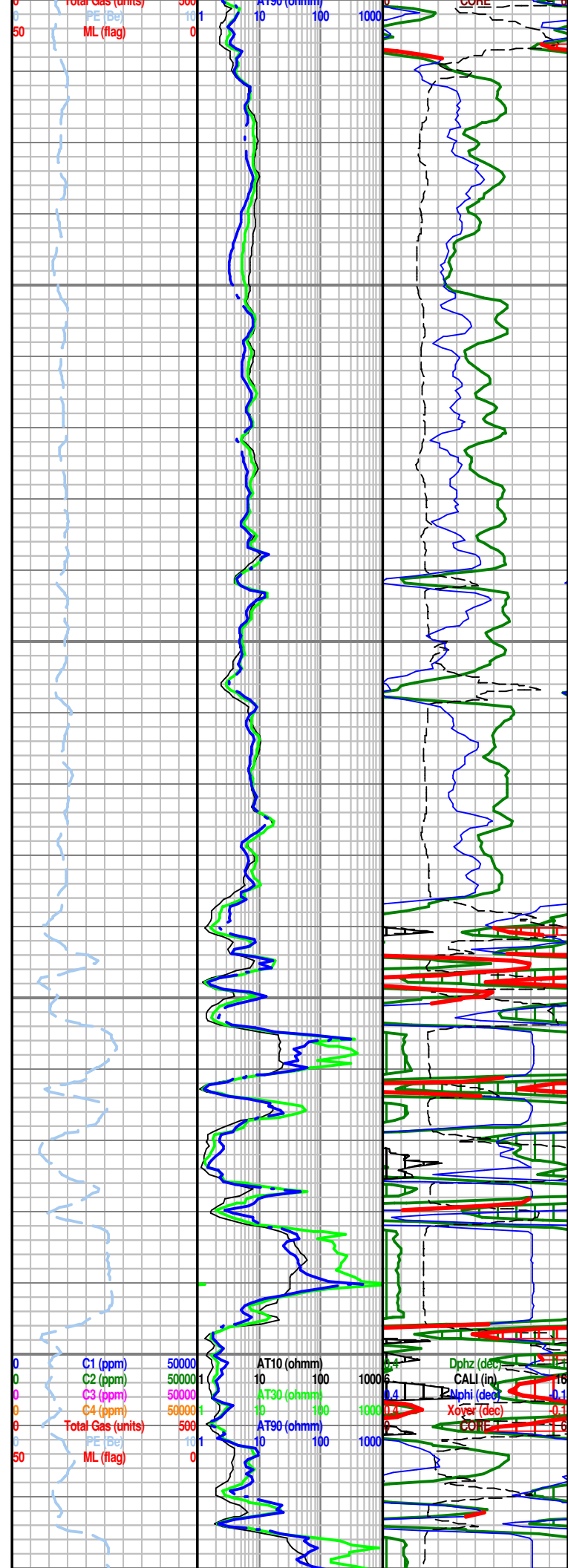


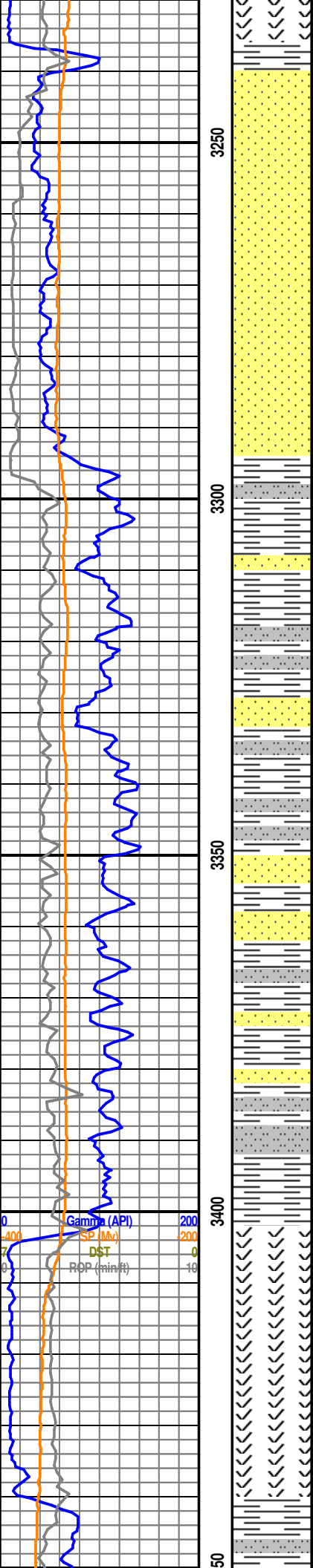




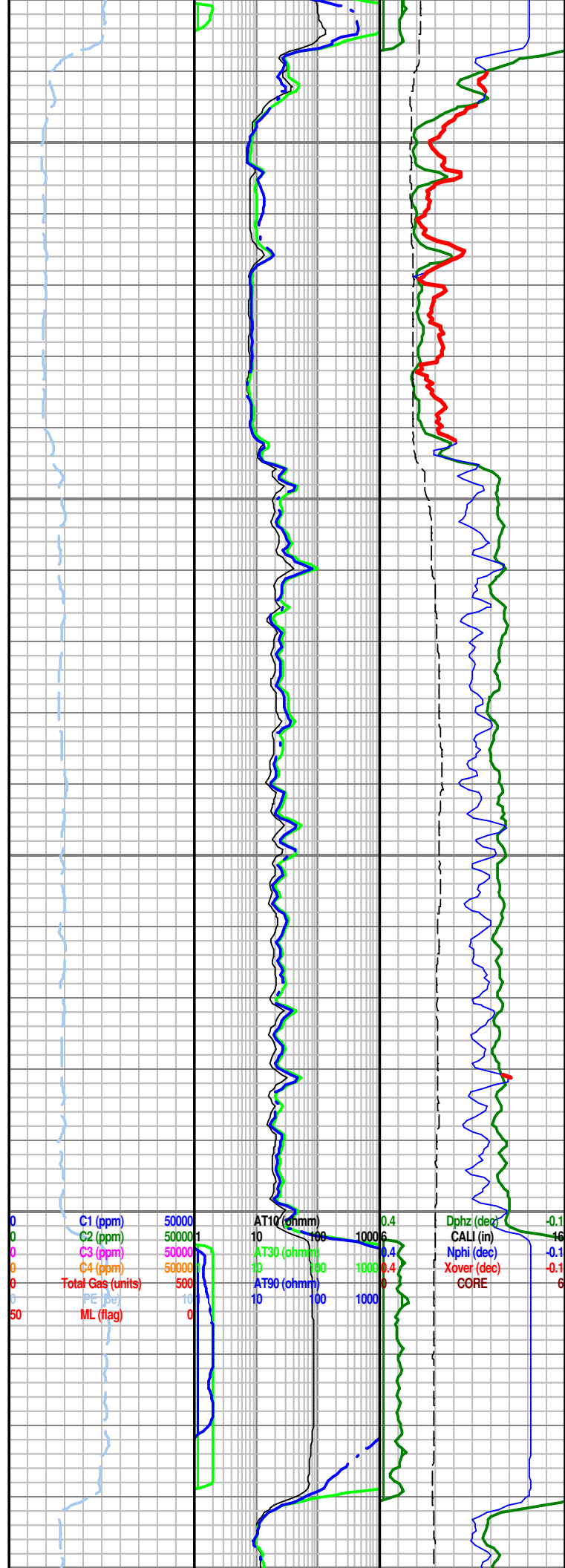


Blaine @ log 3154' (+1374)

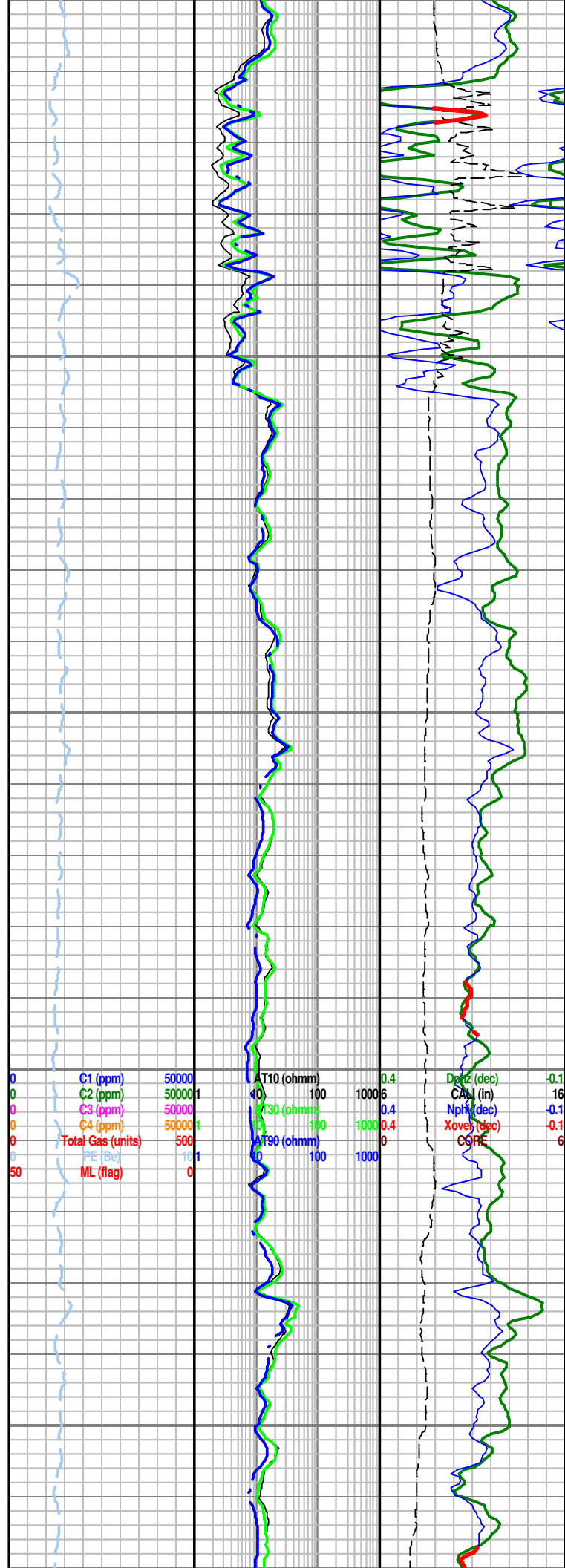
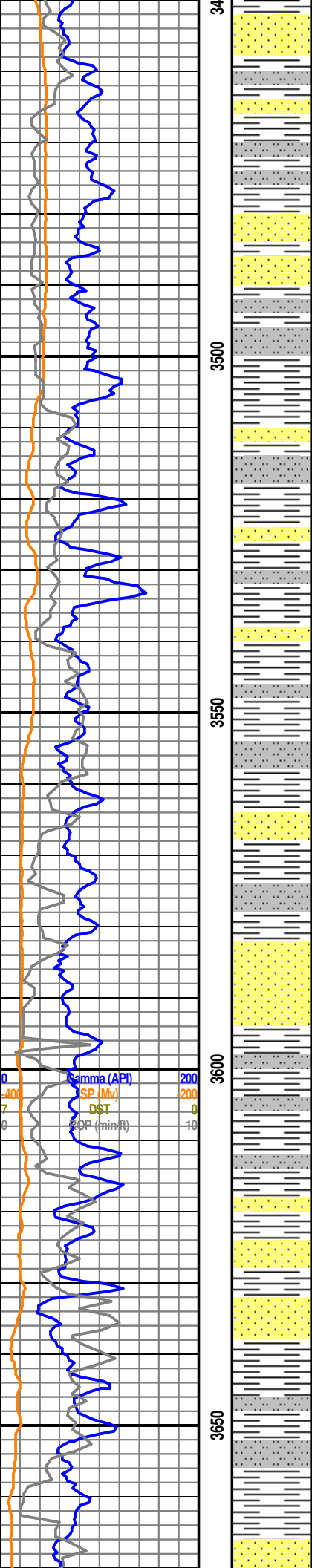




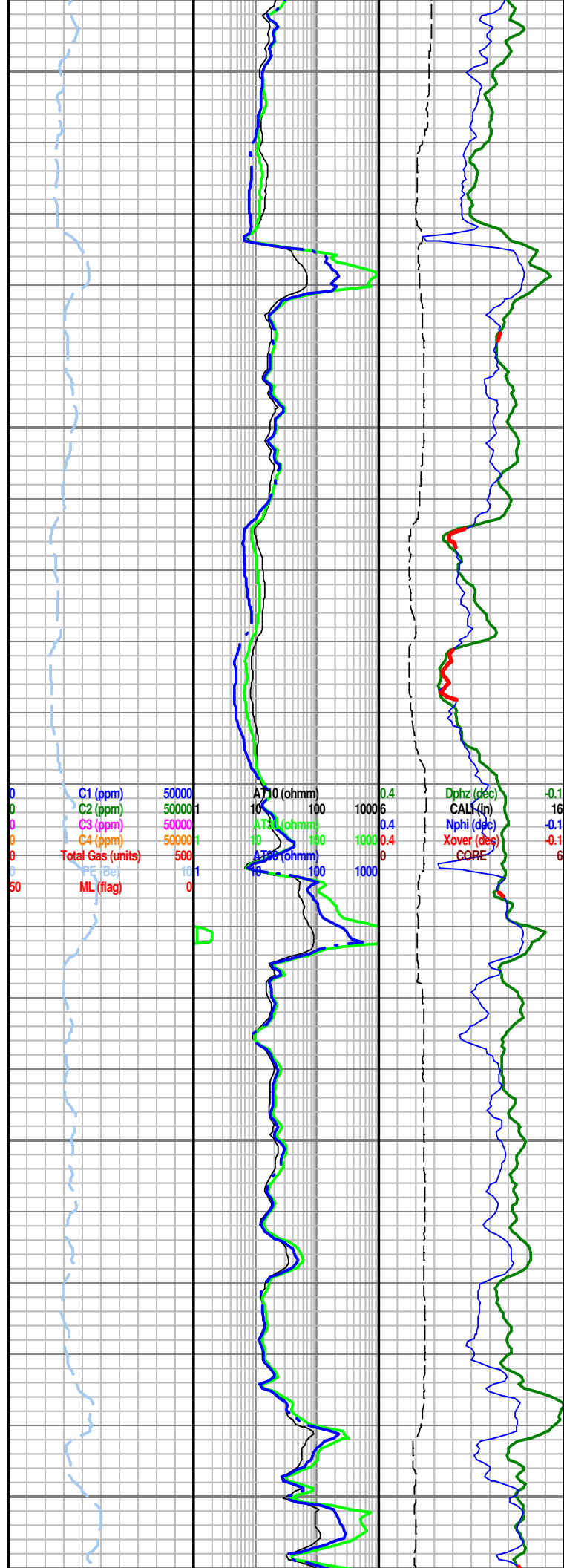
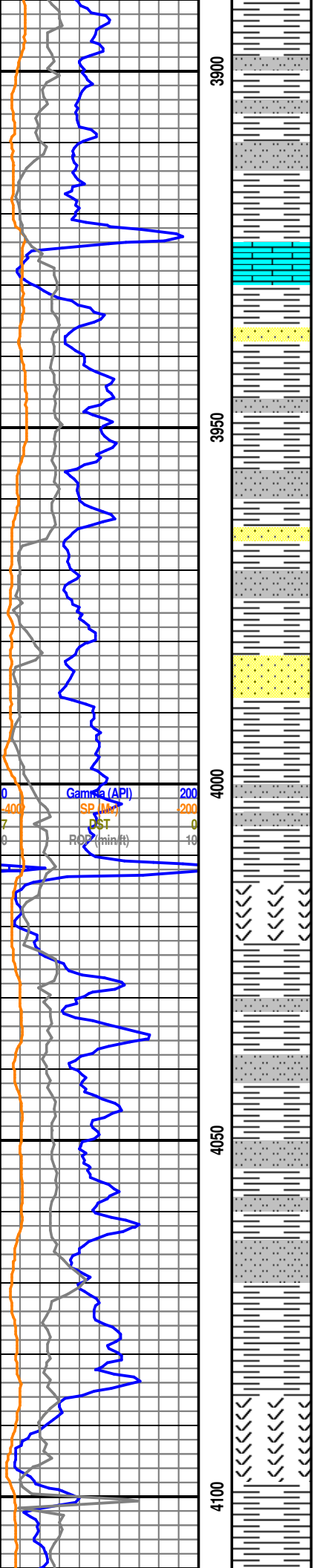
Stone Corral @ log 3402' (+1126)

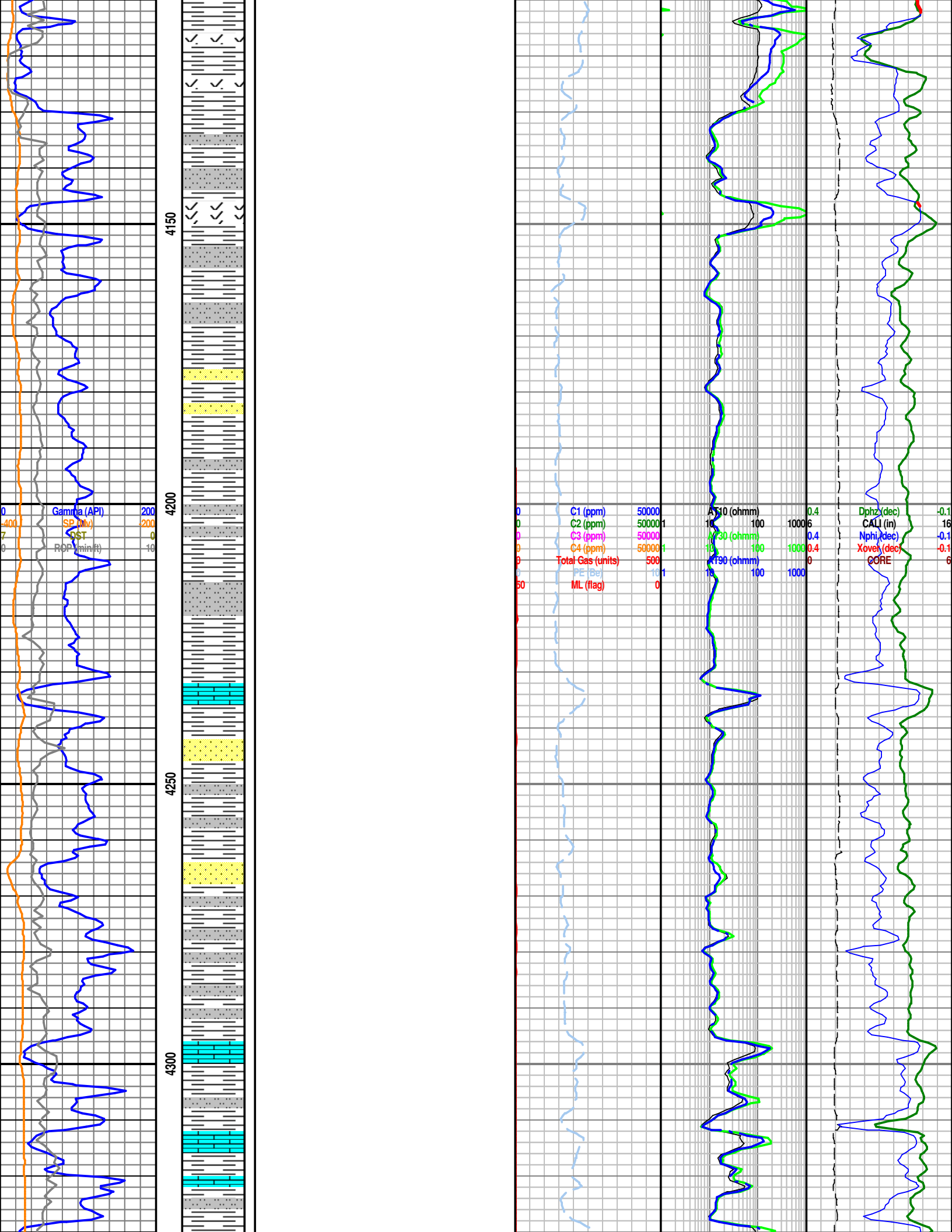


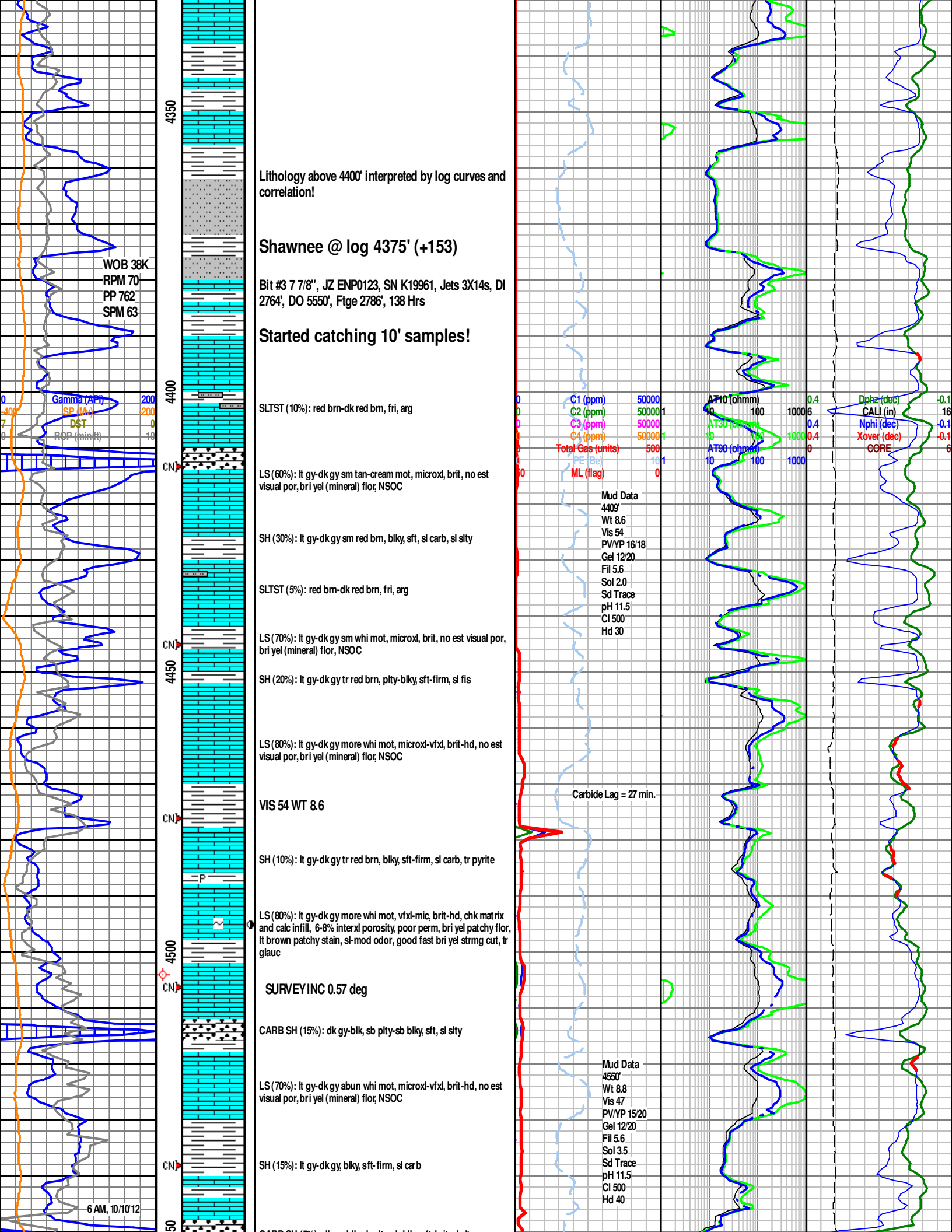


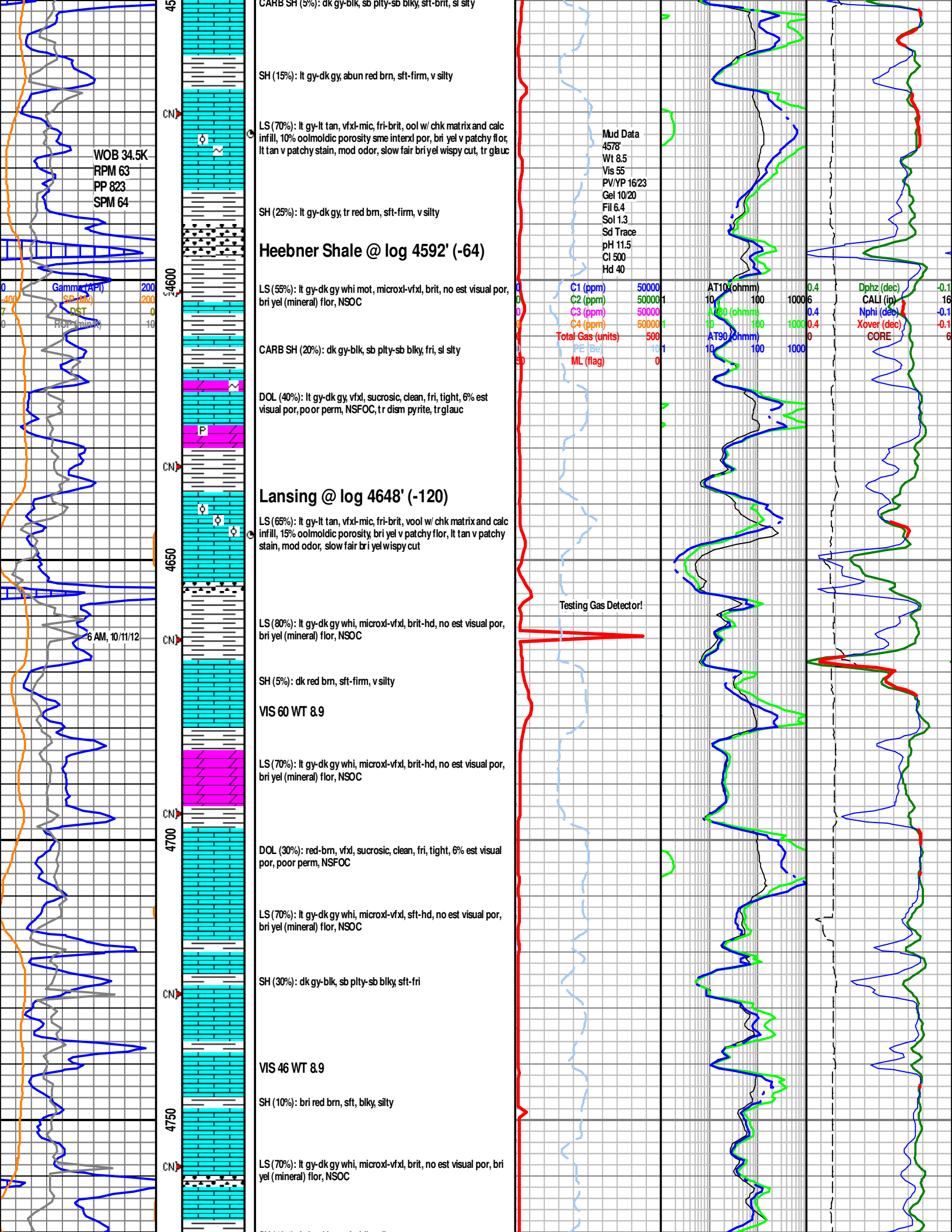




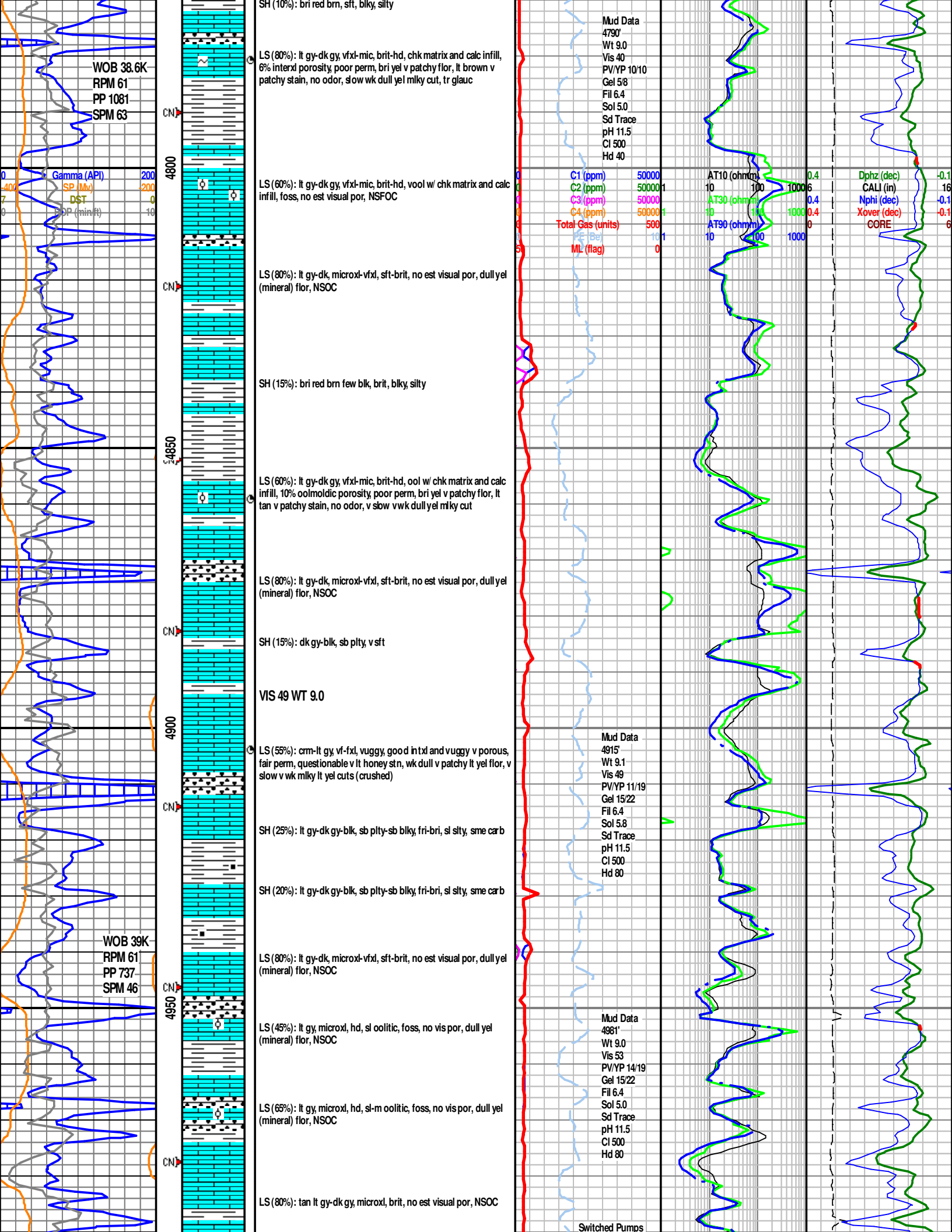


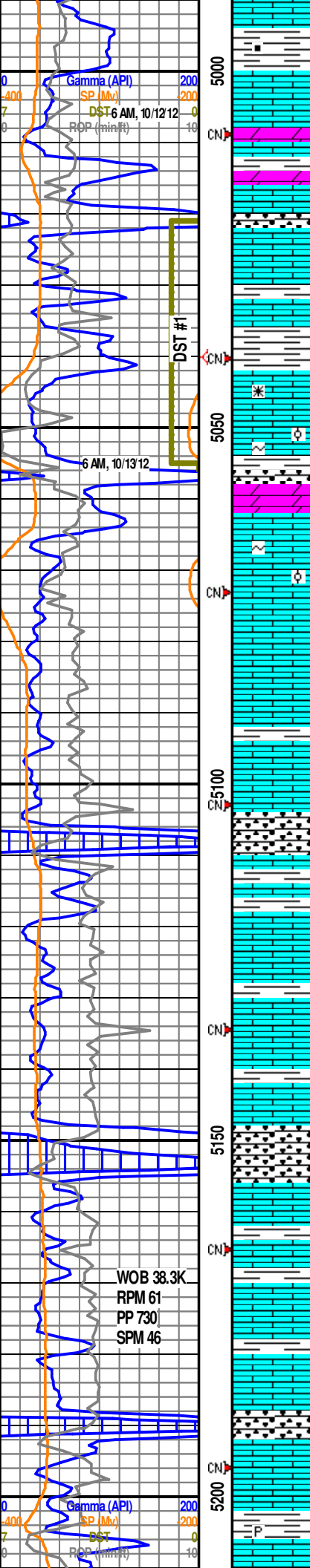












## Marmaton @ log 5000' (-472)

SH (10%): lt gy-dk gy-blk, sb plty-sb blkly, fri-bri, sl slty, sme carb

DOL (5%): lt brn-tan, vfxl-fxl, sucrosic, sl dirty, brit, tight, 6% est visual por, po or perm, v patchy st ain, wk crushed milky cut, NFO

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

SURVEYINC 0.68 deg

## Pawnee mbr @ log 5032' (-504)

LS (65%): crm-lt gy, vf-fxl, vuggy, good intxl and vuggy porous est 10%, poor perm, lt brown near even stn, 40% mod bri near even lt yel flor, mod odor, slow good strmg milky lt yel cuts, tr calcite rhomb

LS (75%): crm-lt gy, vf-fxl, vuggy, good intxl and vuggy porous est 12%, fair perm, dk brown even stn, 50% bri even lt yel flor, strong odor, slow good strmg milky lt yel cuts, tr glauc, sl-m ool

## Ft Scott mbr @ log 5065' (-537)

LS (85%): crm-lt gy, vf-fxl, vuggy, good intxl and vuggy porous est 15%, fair perm, lt brown near even stn, 30% dull near even lt yel flor, mod odor, slow good strmg milky lt yel cuts, tr glauc, sl-m ool

DST #1, 5027'-5061' Log (5021'-5055')  
Conventional BH  
Times: 15-30-45-60  
1st open- 1/4" blow in 15 min., 2nd open- 1" blow decreased to 1/2".  
Recovered 80' ML  
Sampler: 2400 ml Mud, 600 ml Gas  
ISI 1164 FSI 1191 BHT 149 deg

## Cherokee @ log 5106' (-578)

CARB SH (25%): blk, sb plty-sb blkly, brit, ip arg

LS (45%): lt gy-dk gy, microxl, brit-hd, no est visual por, dull yel (mineral) flor, NSFOC

LS (65%): lt gy-dk gy, microxl, firm, no est visual por, NSFOC

VIS 55 WT 9.1

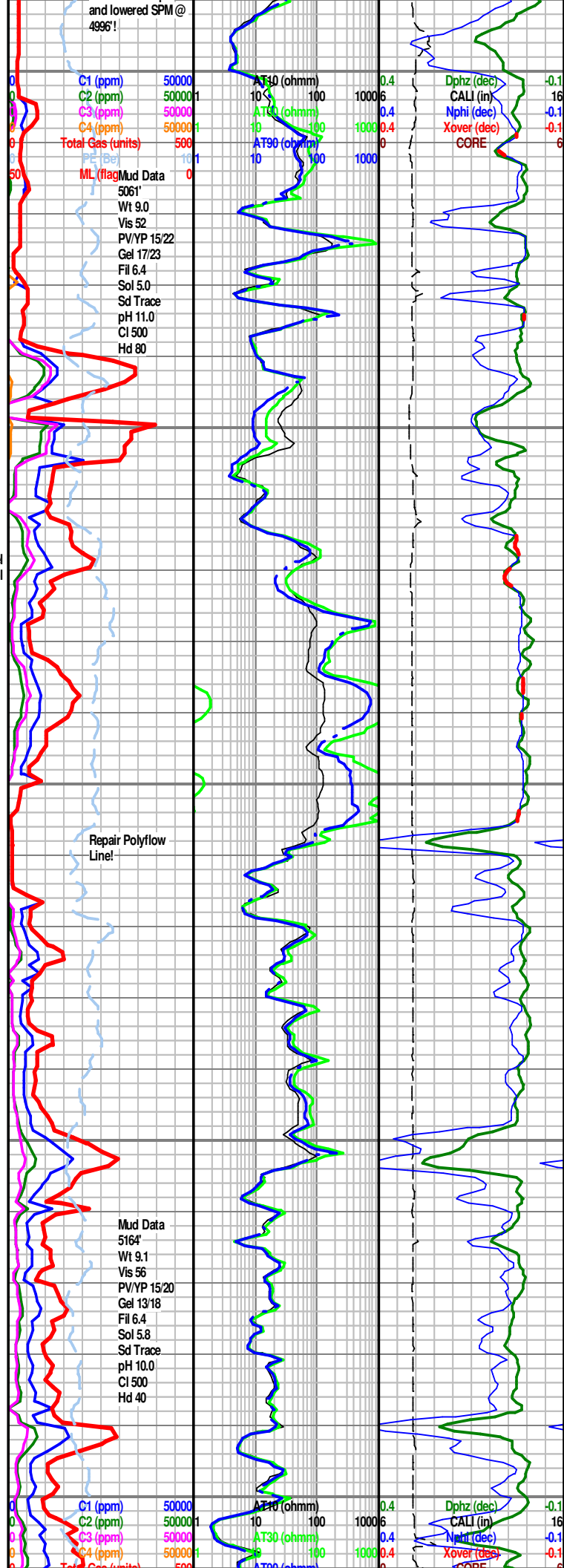
LS (80%): lt gy-dk gy, microxl, brit, no est visual por, NSFOC

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

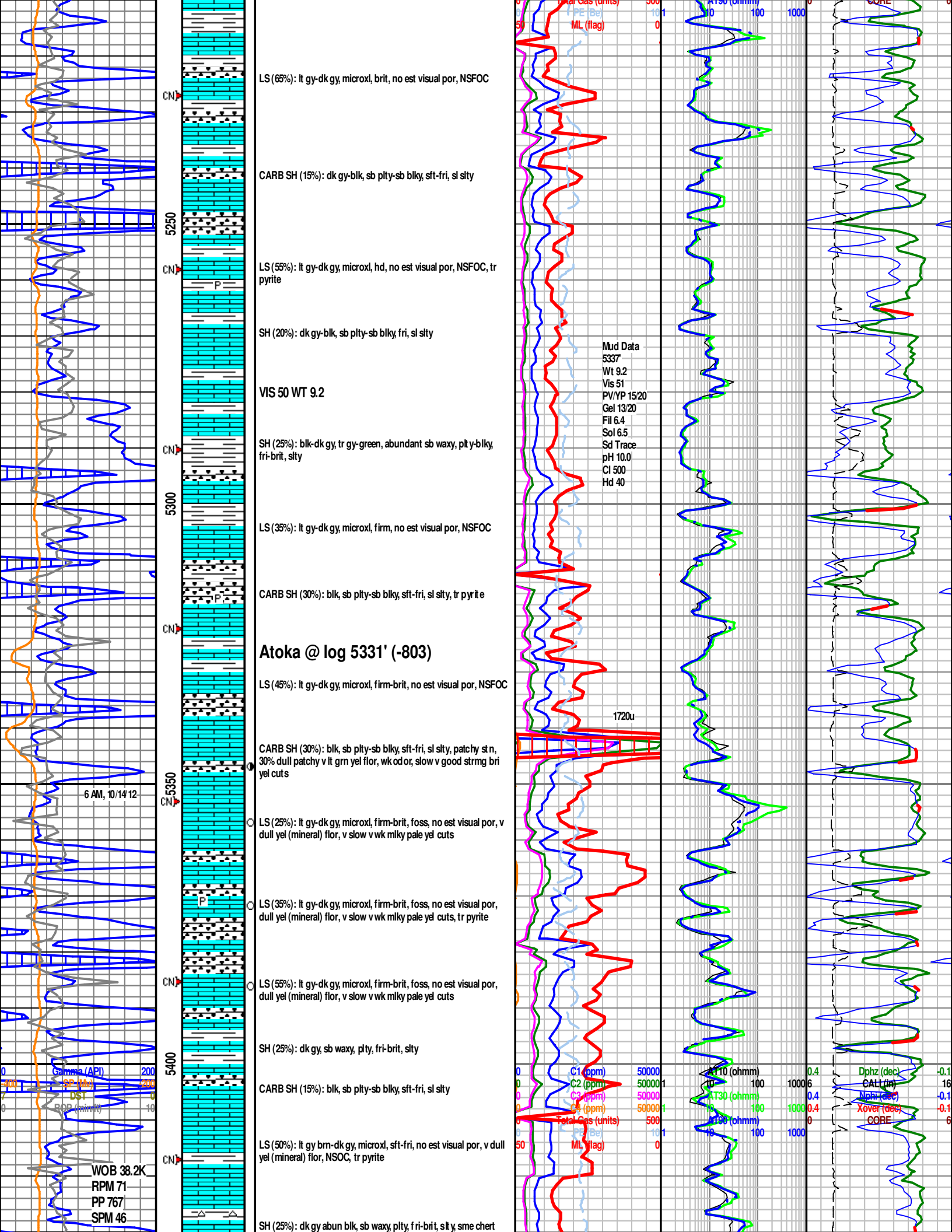
LS (75%): lt gy-dk gy, microxl, brit-hd, no est visual por, NSFOC

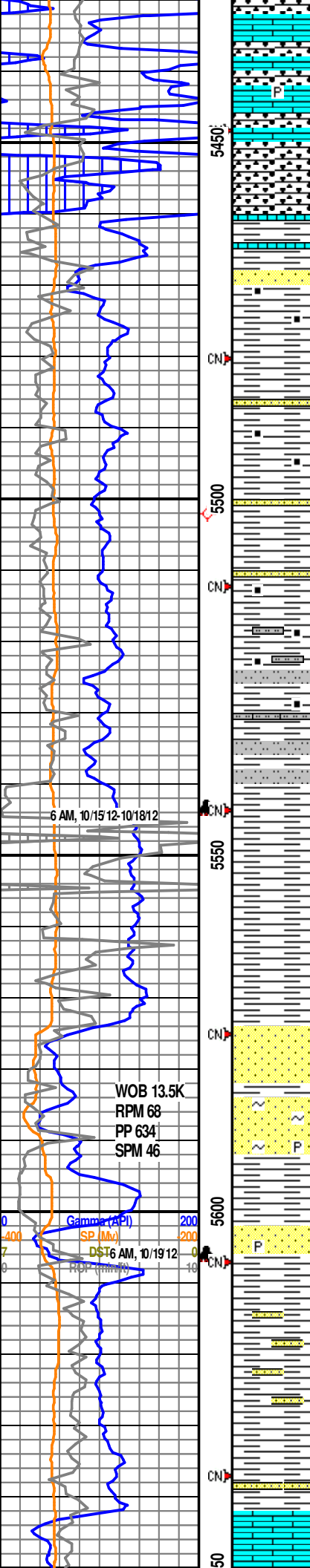
LS (70%): lt gy-dk gy, microxl, brit, no est visual por, NSFOC

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









LS (35%): lt gy brn-dk gy, microxl, sft-fri, no est visual por, v dull  
yel (mineral) flor, NSOC, tr pyrite

### Morrow Shale @ log 5451' (-923)

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

SH (45%): blk, sme lt gy-dk gy, sb plty-sb blkly, fri-brit, f iss,  
laminated, slty, carb, tr SS

SH (55%): blk, sme lt gy-dk gy, sb plty-sb blkly, fri-brit, f iss,  
laminated, slty, carb, tr SS

VIS 55 WT 9.1

SURVEY INC 1.91 deg

SH (65%): lt gy-dk gy, sme blk, sb plty-sb blkly, fri-brit, f iss,  
laminated, sl slty, carb, tr diss pyrite, SS stringers

SH (75%): lt gy-dk gy, sb plty-sb blkly, fri-brit, abn f iss, laminated,  
slty, carb

SH (85%): lt gy-dk gy, sb plty-sb blkly, fri-brit, f iss, laminated, v  
slty, carb, SLTST stringers

Bit #5 7 7/8", Halliburton FC 4643A, SN 967138314,  
TFA 1.3, DI 5550, DO 5612, Fige 62, Hrs 3.6

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

SH: v dk gy, sb plty, vf irm, slty, f iss, laminated

SH: v dk gy, sb plty, vf irm, slty, f iss, laminated

SH: v dk gy, sb plty, vf irm, slty, f iss, laminated

SS: clr-trans. fg-mg, ang, well srt, clean, silica cmt, hd-vhd, 6% est  
vis por tr 10%, v tight, v poor perm, NSFOC, abun diss glauc, tr  
pyrite

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

Bit #4RR 7 7/8", JZ ENP0123, SN K19944, Jets 2X14s  
1X13, DI 5612, DO 5858, Fige 246, Hrs 14.5

SH: v dk gy, sb plty, vf irm, slty, f iss, laminated

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

### Lower Morrow @ log 5642' (-1114)

Mud Data  
5512  
Wt 9.1  
Vis 56  
PV/YP 15/20  
Gel 13/20  
Fil 6.4  
Sol 5.8  
Sd Trace  
pH 10.0  
Cl 500  
Hd 40

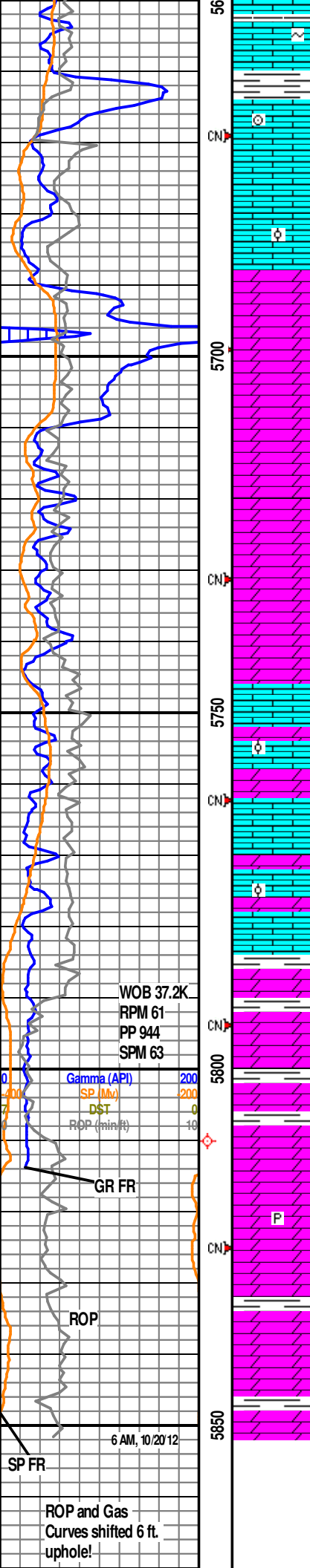
C1 (ppm) 50000  
C2 (ppm) 50000  
C3 (ppm) 50000  
C4 (ppm) 50000  
Total Gas (units) 500  
ML (flag) 0

Mud Data  
5612  
Wt 9.2  
Vis 53  
PV/YP 17/16  
Gel 9/26  
Fil 7.2  
Sol 6.5  
Sd Trace  
pH 9.0  
Cl 500  
Hd 40

AT10 (ohmm) 100  
AT30 (ohmm) 100  
AT70 (ohmm) 100

Core #1

Dphz (deg) 0.4  
CALI (in) 16  
Nphi (deg) -0.1  
Cover (deg) -0.1  
CORE 6



LS (30%): tan-whi-lt gy, fxl-microxl, fri-firm, no est visual por, dull yel flr (mineral), NSOC, tr glauc

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

LS (60%): tan-whi-lt gy, fxl-microxl, fri-firm, no est visual por, dull yel flr (mineral), NSOC, sl ool

### Spergen @ log 5688' (-1160)

DOL (20%): lt brn-tan, fxl-vfxl, subsucrosic, brit, no est visual por, poor perm, NSFOC

VIS 62 WT 9.2

DOL (20%): lt brn-tan, fxl-vfxl, subsucrosic, brit, no est visual por, poor perm, NSFOC

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

LS (25%): tan-whi-lt gy, fxl-microxl, fri-firm, no est visual por, dull yel flr (mineral), NSOC, sl-m ool

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

SH (25%): lt gy-dk gy, plty, firm, slt y, fiss

### SURVEY INC 2.1 deg

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

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

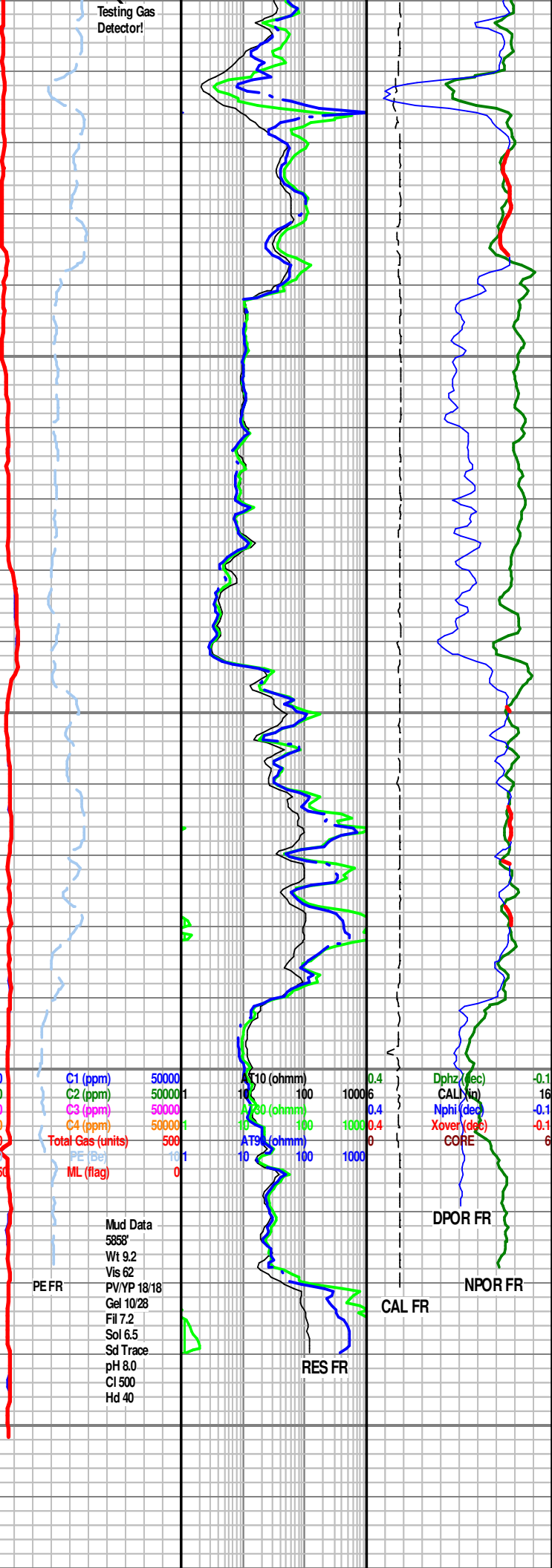
### Drillers TD: 5858' (MD)

(reached on 10/20/12 at 12:25 am)

### Loggers TD: 5852' (MD)

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

4510° - 0.57° 5046° - 0.68° 5508° - 1.91° 5816° - 2.1°



	5900	<p>-----Plugging Procedure-----</p> <table> <tr> <td>40 sks</td> <td>5000'</td> </tr> <tr> <td>40 sks</td> <td>2700'</td> </tr> <tr> <td>40 sks</td> <td>2000'</td> </tr> <tr> <td>50 sks</td> <td>480'</td> </tr> <tr> <td>15 sks</td> <td>surface</td> </tr> <tr> <td>10 sks</td> <td>rathole</td> </tr> <tr> <td>10 sks</td> <td>mousehole</td> </tr> </table> <p>-----</p> <table> <tr> <td>290 sks</td> <td>total</td> </tr> </table>	40 sks	5000'	40 sks	2700'	40 sks	2000'	50 sks	480'	15 sks	surface	10 sks	rathole	10 sks	mousehole	290 sks	total
		40 sks	5000'															
40 sks	2700'																	
40 sks	2000'																	
50 sks	480'																	
15 sks	surface																	
10 sks	rathole																	
10 sks	mousehole																	
290 sks	total																	
<p>Thank you for using our service!</p> <p>RYAN SCRIBNER Goolsby Brothers &amp; Associates (October 21, 2012)</p>																		