

# LITHOLOGY STRIP LOG

## WellSight Systems

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

Well Name: Patara Oil and Gas Wray Mesa 36-34-47-20

Location: Sec 36-47N-20W

License Number:

Spud Date: 07 Aug 2010

Surface Coordinates: 1945 FNL 975 FEL

Region: Montrose Co., CO

Drilling Completed:

Bottom Hole Coordinates:

Ground Elevation (ft): 7280

K.B. Elevation (ft): 7300

Logged Interval (ft): 2406 To: TD

Total Depth (ft):

Formation: Hermose Gp (Hatch)

Type of Drilling Fluid: MI Flo Pro NT

Printed by WellSight Log Viewer from WellSight Systems 1-800-447-1534 [www.WellSight.com](http://www.WellSight.com)

### OPERATOR

Company: Patara Oil and Gas, LLC

Address: 600 17th St., Ste. 1900S  
Denver, CO 80202

### GEOLOGIST

Name: Kurt A. Anderson

Company: Anderson Geological Services, Inc.

Address: POB 216  
Franktown, CO  
303-688-3840

### Rig

Nabors Rig 946

Bill Cook, Toolpusher

### Mud

MI

Debroid Braud

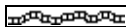
### On Site

Robert Martin

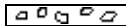
### ROCK TYPES



Anhy



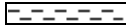
Bent



Brec



Cht



Clyst



Coal



Congl



Dol



Gyp



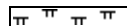
Igne



Lmst



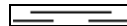
Meta



Mrlst



Salt



Shale



Shcol



Shgy



Slst



Ss



Till



Gy sltst

## ACCESSORIES

### MINERAL

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

### SORTING

Well  
 Moderate  
 Poor

### ROUNDING

Rounded  
 Subrnd  
 Subang  
 Angular

### OIL SHOWS

Blank  
 Gas  
 Even  
 Spotted  
 Ques  
 Dead

### INTERVALS

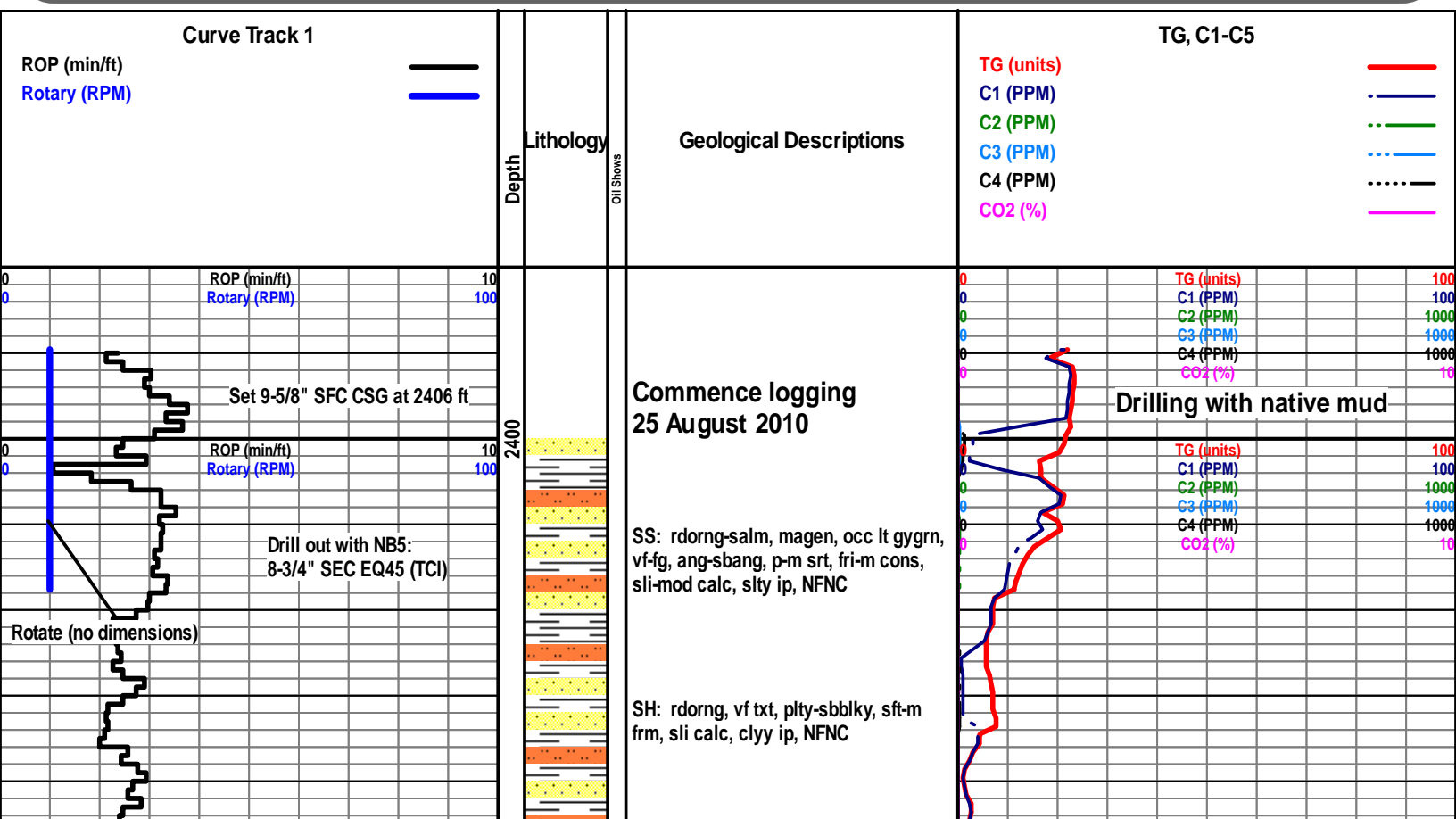
Core

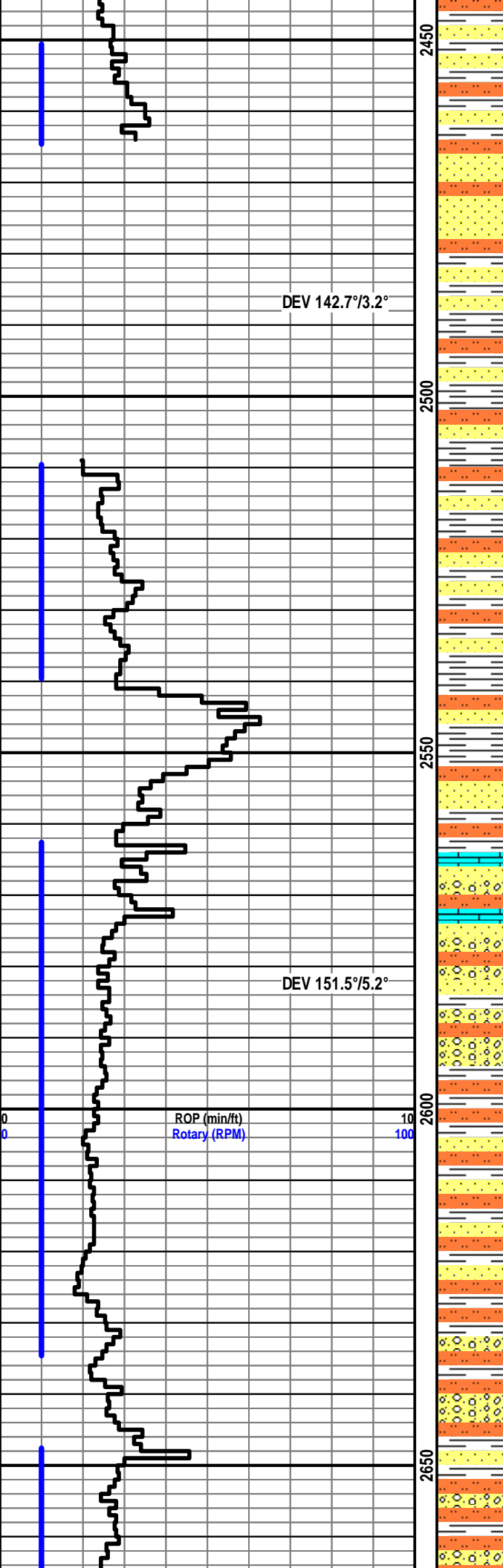
Dst

Bit change

### EVENTS

Rft  
 Sidewall





SLTST: rdbrn-rdorg, plty-sbblky, fri-m  
cons, sli-mod calc, sdy ip, clyy ip,  
NFNC

TVD: 2487 ft

SS/CONGL: rdbrn-lt gygrn-off wh,  
vf-vcg, ang-sbrnd, occ rnd, fri-m cons,  
occ calcit cmt, predom mod calc, com  
lith grs, occ slty, NFNC

SLTST: rdbrn-rdorg, plty-sbbky, fri-m  
cons, sli-mod calc, sdy ip, clyy ip,  
NFNC

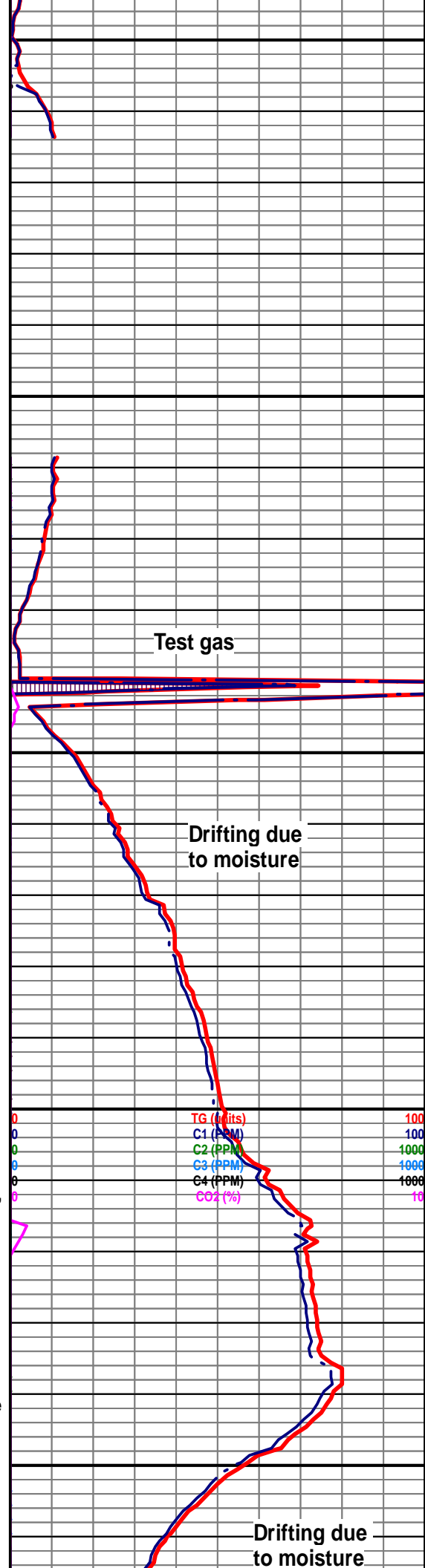
LST: lt salm-off wh, micrxln-vf xln,  
blky, m-w cons, sdy ip, poss autoch,  
NFNC

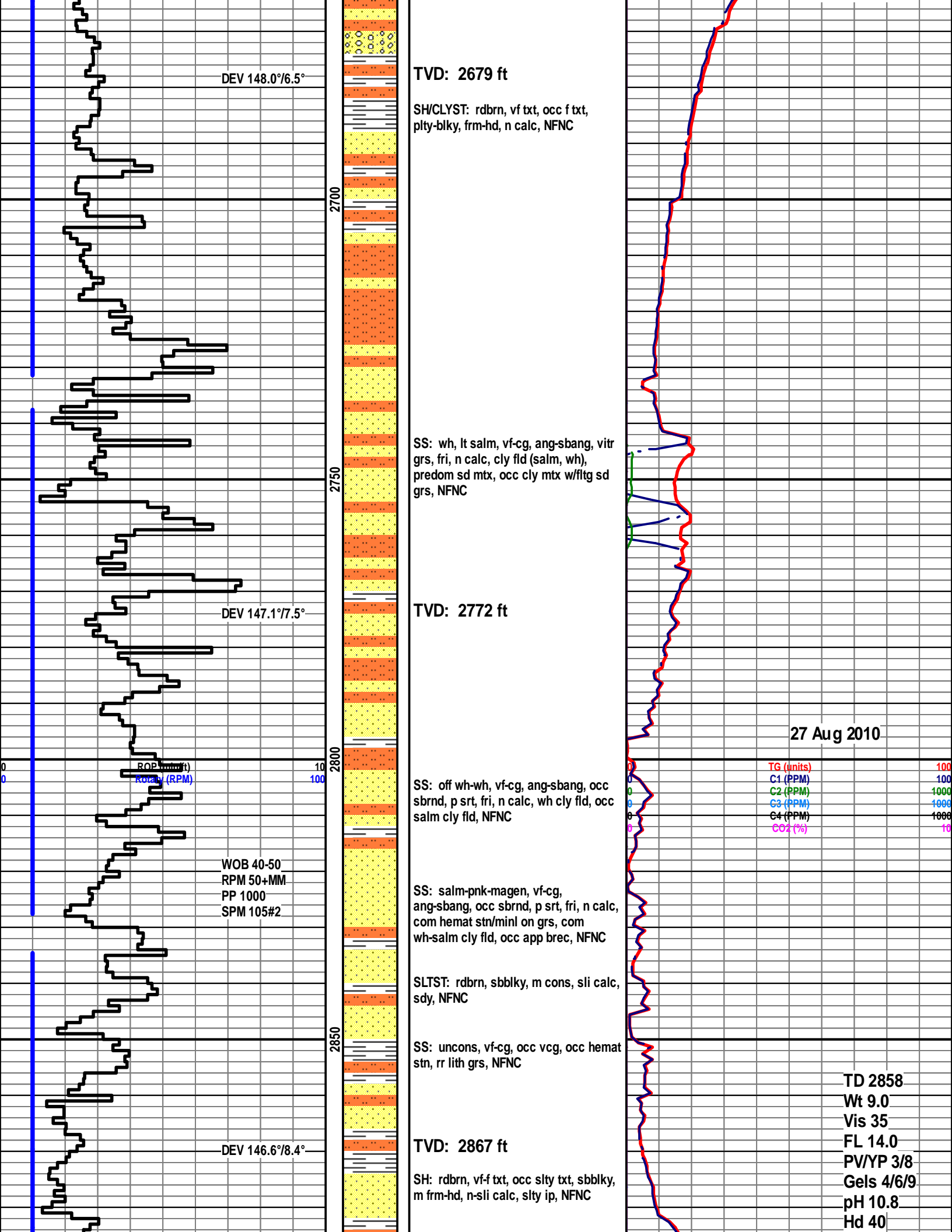
TVD: 2583 ft

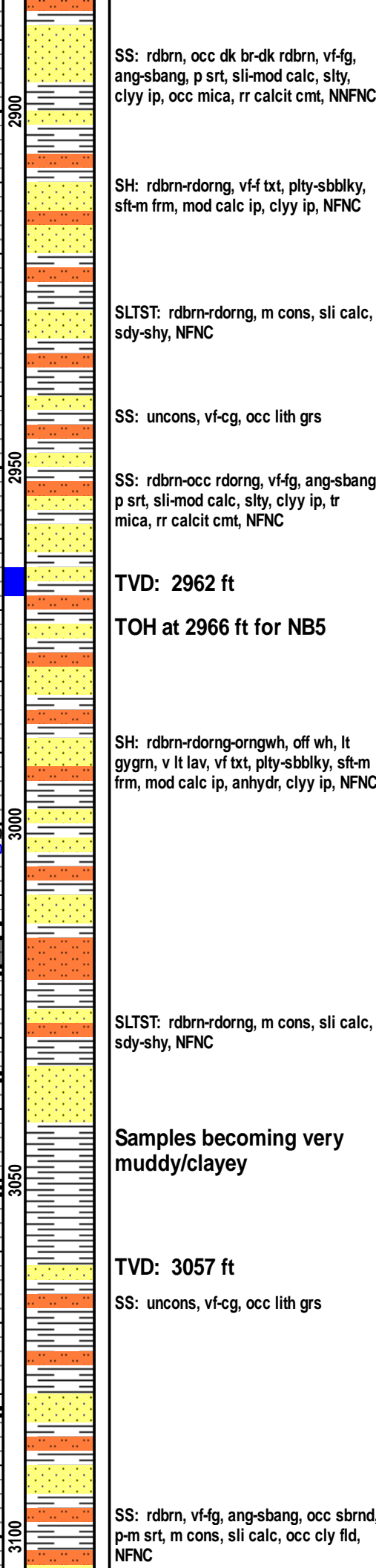
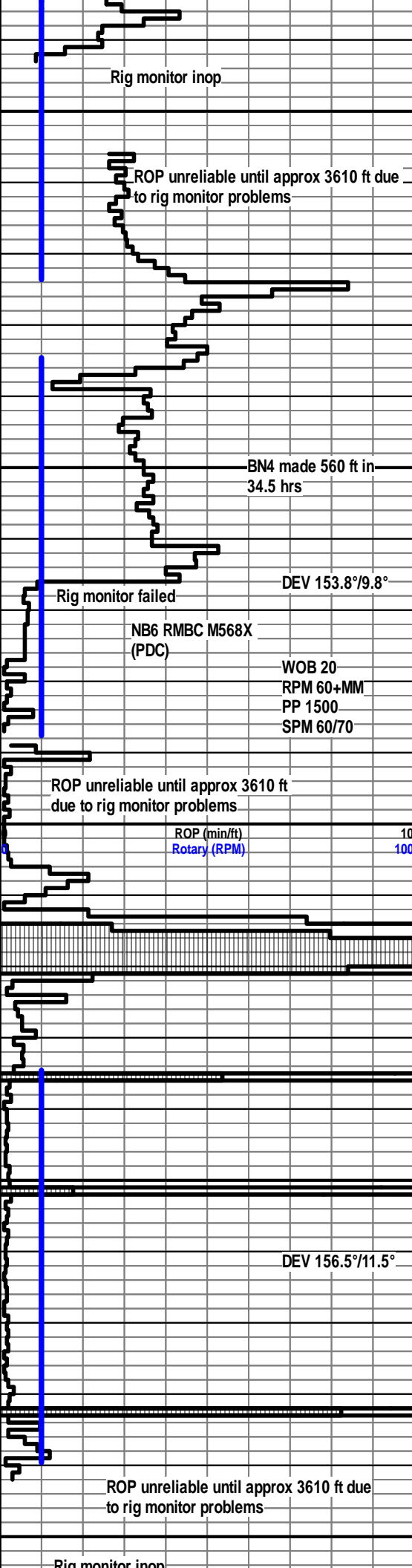
SS/CONGL: rdbrn-lt gygrn-off wh,  
vf-vcg, ang-sbrnd, occ rnd, fri-m cons,  
occ calcit cmt, predom mod calc, com  
lith grs, occ slty, tr cht, NFNC

SH: lt rdbrn-m salm, vf txt, plty-tab, hd,  
silic, n calc, NFNC

SS/CONGL: rdbrn-lt gygrn-off wh,  
vf-vcg, ang-sbrnd, occ rnd, fri-m cons,  
occ calcit cmt, occ sli calc, com lith  
grs, com rdbrn-gy cly/slt fld, occ ochre  
cly fld, com transl cht, NFNC







SS: rdbrn, occ dk br-dk rdbrn, vf-fg, ang-sbang, p srt, sli-mod calc, slty, clyy ip, occ mica, rr calcit cmt, NNFNC

SH: rdbrn-rdorng, vf-f txt, plty-sbblky, sft-m frm, mod calc ip, clyy ip, NFNC

SLTST: rdbrn-rdorng, m cons, sli calc, sdy-shy, NFNC

SS: uncon, vf-cg, occ lith grs

SS: rdbrn-occ rdorng, vf-fg, ang-sbang, p srt, sli-mod calc, slty, clyy ip, tr mica, rr calcit cmt, NFNC

TVD: 2962 ft

TOH at 2966 ft for NB5

SH: rdbrn-rdorng-orngwh, off wh, lt gygrn, v lt lav, vf txt, plty-sbblky, sft-m frm, mod calc ip, anhydr, clyy ip, NFNC

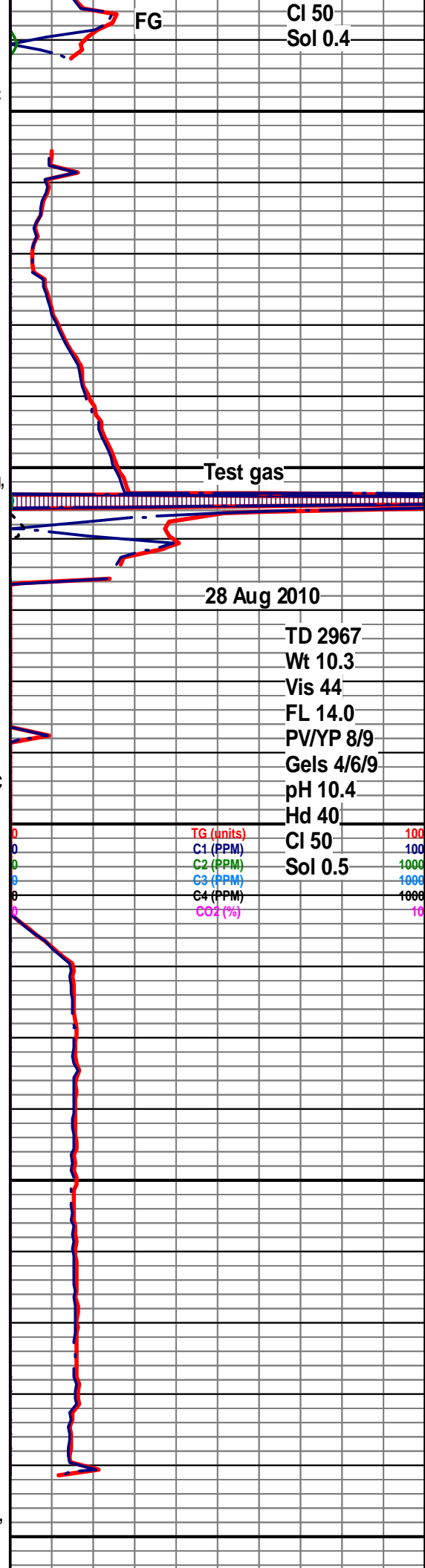
SLTST: rdbrn-rdorng, m cons, sli calc, sdy-shy, NFNC

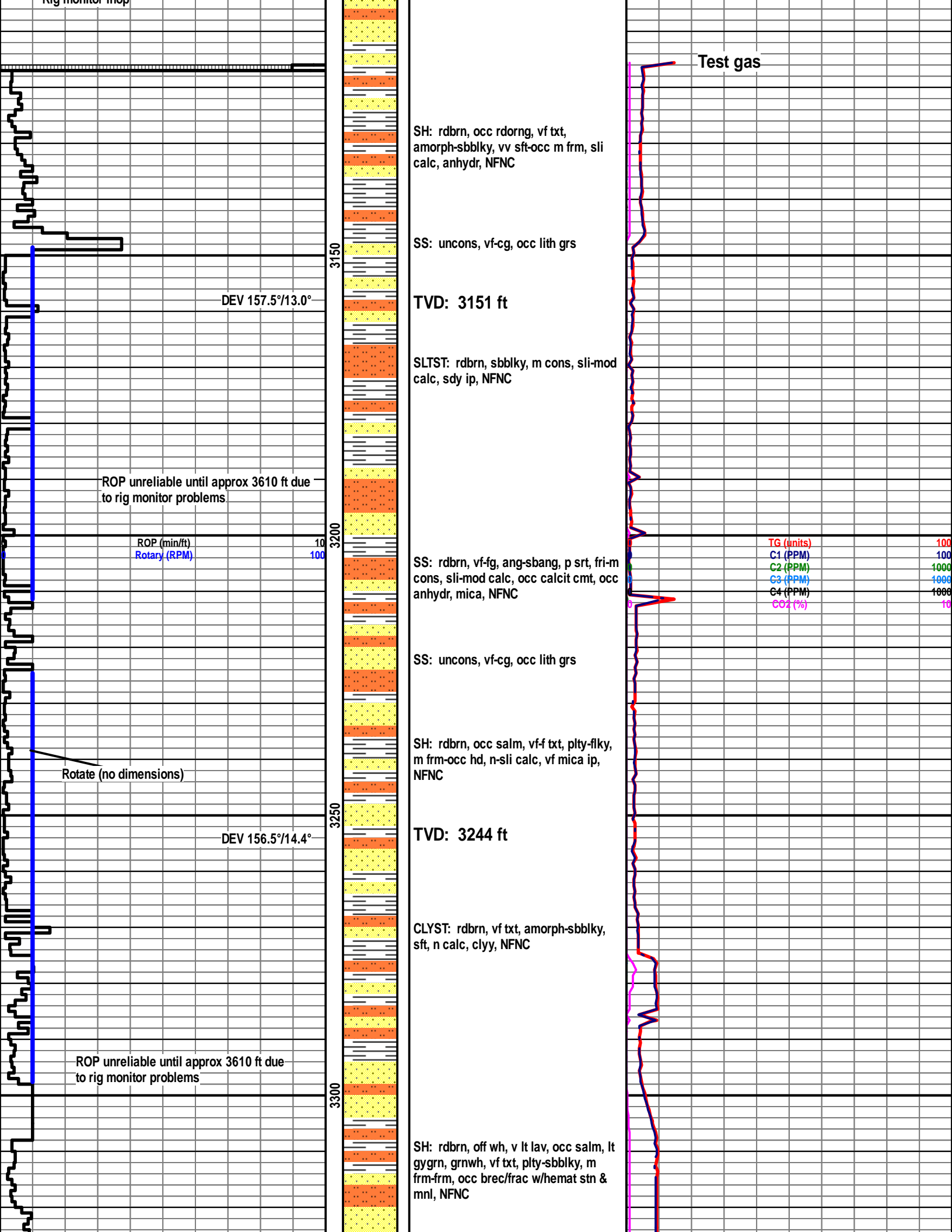
Samples becoming very muddy/clayey

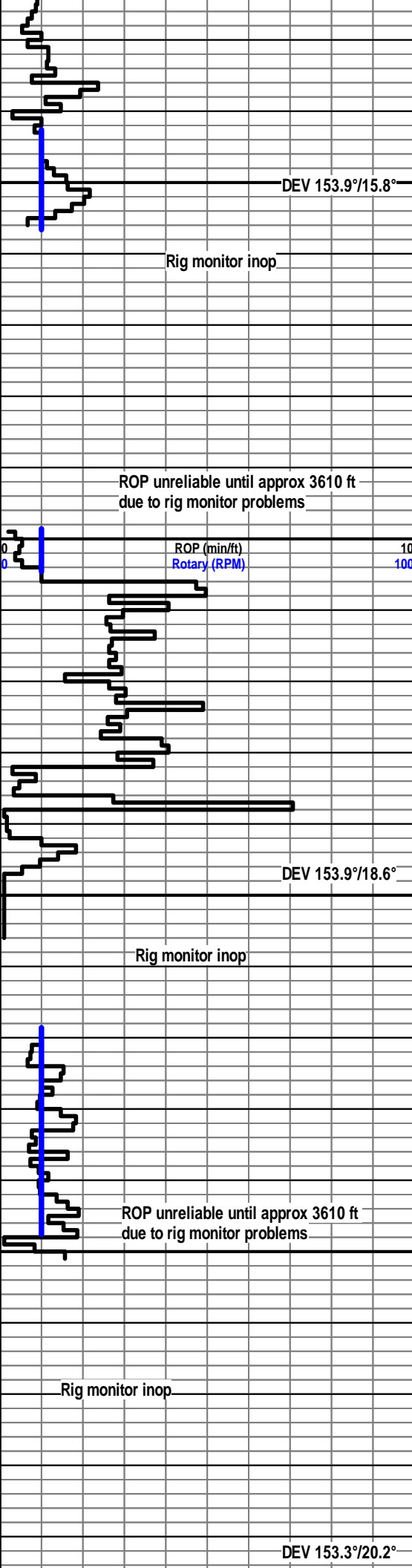
TVD: 3057 ft

SS: uncon, vf-cg, occ lith grs

SS: rdbrn, vf-fg, ang-sbang, occ sbrnd, p-m srt, m cons, sli calc, occ cly fld, NFNC







SS: uncon, vf-cg, occ lith grs

TVD: 3338 ft

SLTST: rdbrn, sbblky, m cons, sli calc, sdy ip, NFNC

SS: uncon, vf-cg, occ lith grs

CLYST/SH: rdorng-orngwh, vf-f txt, rndd, sft, clyy, n-sli calc, anhydr, NFNC

SH: rdbrn, vf-f txt, sbblky-flky, m frm, n calc, NFNC

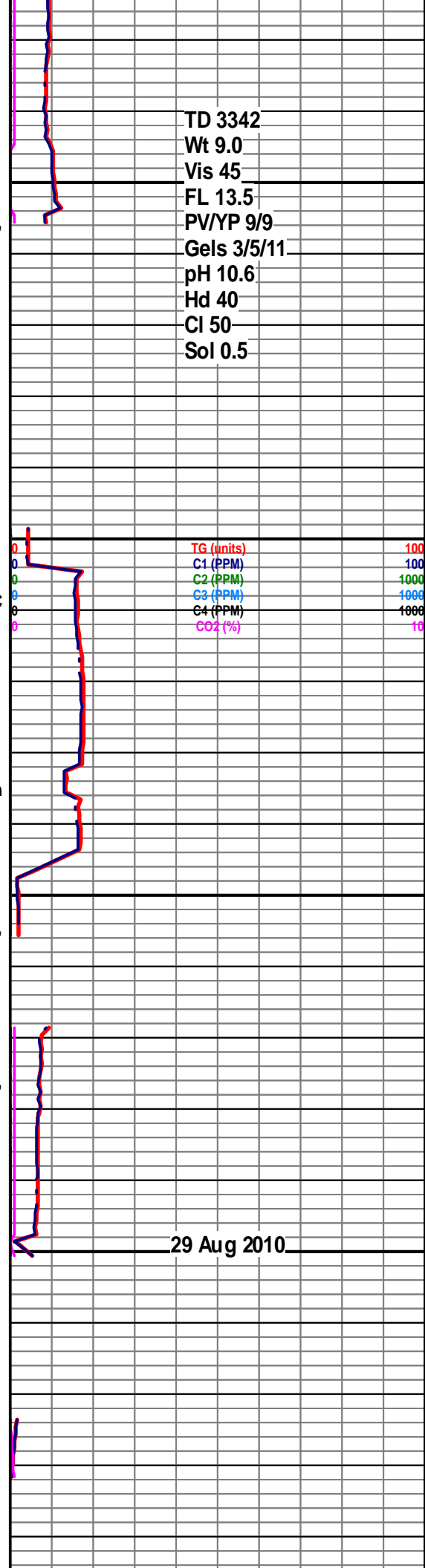
TVD: 3429 ft

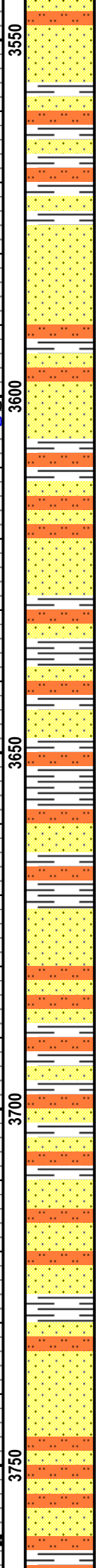
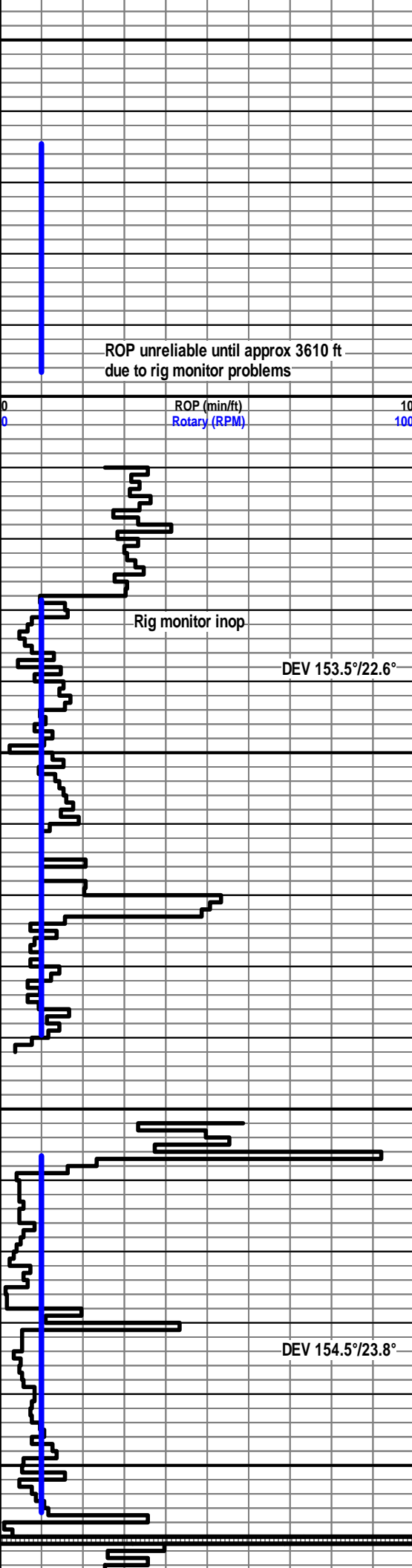
SS: rdbrn-rdorng, vf-fg, sbang, p-m srt, m cons, sli calc, occ mod calc, vf mica, NFNC

SLTST: rdbrn, sbblky, m cons, sli calc, sdy ip, NFNC

SS: rdbrn, vf-fg, sbang, p-m srt, m cons, sli calc, occ mod calc, vf mica, NFNC

TVD: 3519 ft





SLTST: rdbrn, sbblky, m cons, sli calc, sdy ip, NFNC

SS: rdbrn, vf-fg, sbang, p-m srt, m cons, sli calc, occ mod calc, vf mica, NFNC

SLTST: rdbrn, sbblky, m cons, sli calc, sdy ip, NFNC

SS: rdbrn, vf-fg, sbang, p-m srt, m cons, sli calc, occ mod calc, vf mica, NFNC

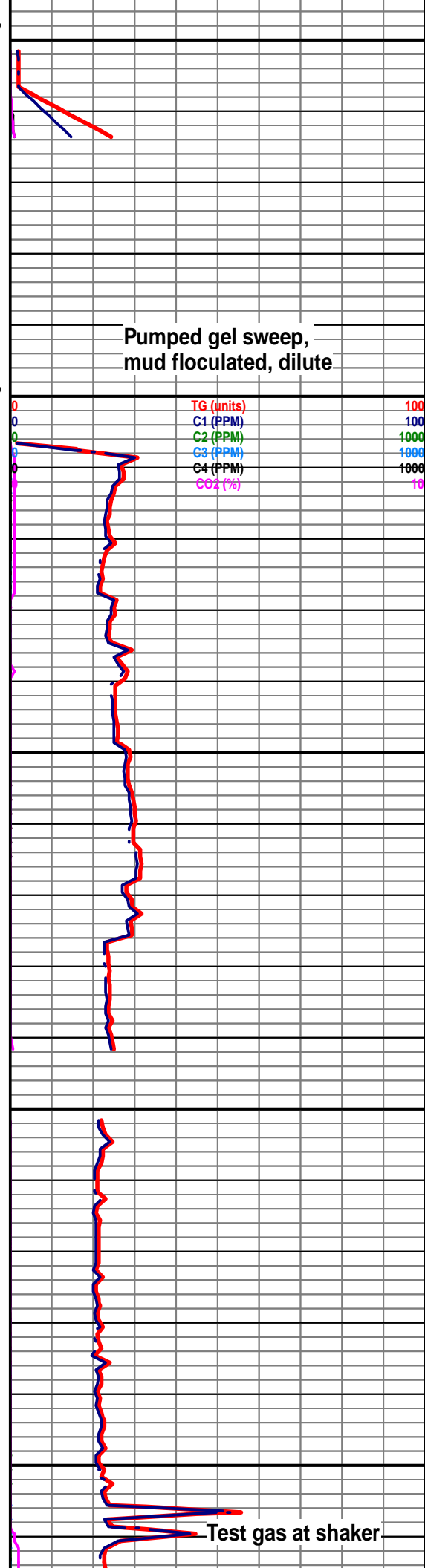
SS: rdbrn, vf-ufg, sbang, p-m srt, m cons, sli calc, occ mod calc, tr mica, NFNC

Short trip at 3702 ft to casing shoe. Tight 2XX off bottom. Pulled to 280K

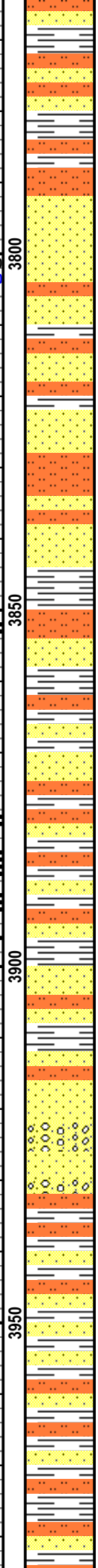
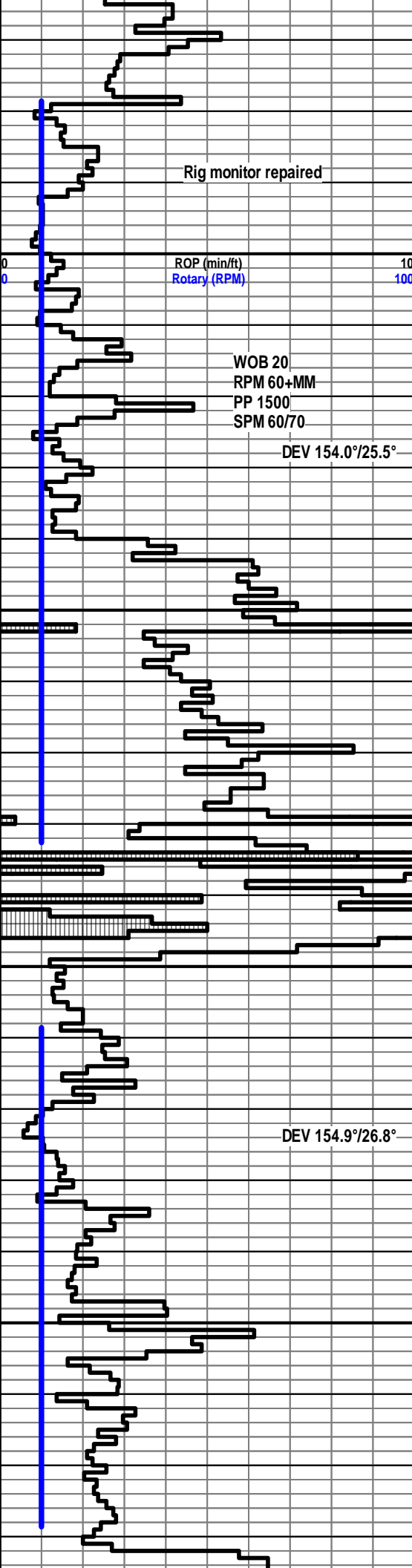
NOTE: chunks and flakes (up to 1") circulated out after short trip

SS: rdbrn, vf-ufg, sbang, p-m srt, m cons, sli calc, occ mod calc, vf mica, NFNC

SLTST: rdbrn, sbblky, m cons, sli-mod calc, sdy ip, sli argil, NFNC







SS: rdbn, vf-ufg, sbang, p-m srt, m cons, sli calc, occ mod calc, tr mica, NFNC

SS: rdbn-rdorn, vf-ufg, sbang, p-m srt, m cons, sli calc, occ mod calc, anhydr, tr mica, NFNC

SLTST: rdbn-rdorn, plty-sbblky, m cons, mod calc, sdy ip, sli argil, NFNC

TVD: 3782 ft

SS: rdbn-rdorn, vf-ufg, sbang, p-m srt, fri-m cons, sli calc, occ mod calc, anhydr, tr mica, NFNC

SH: rdbn-rdorn, vf-f txt, plty-sbblky, sft-m frm, n-sli calc, occ vf mica, NFNC

SH: rdorn-orngwh, vf txt, amorph-sbblky, vv sft-sft, sli-occ mod calc, anhydr, clyy, NFNC

SLTST: rdbn-rdorn, plty-sbblky, fri-m cons, sli-mod calc, sdy ip, sli argil, NFNC

SH: rdorn-orngwh, vf txt, amorph-sbblky, vv sft-sft, sli calc, anhydr, clyy, NFNC

SLTST: rdbn-rdorn, plty-sbblky, fri-m cons, sli-mod calc, anhydr, tr mica, NFNC

TVD: 3868 ft

SS/CONGL: uncons, vf-vcg, ang-sbrnd, com lith grs, NFNC

SH: rdorn-orng, vf txt, amorph-sbblky, vv sft-sft, sli calc, anhydr, NFNC

SLTST: rdbn-rdorn, plty-sbblky, fri-m cons, sli-mod calc, sdy ip, sli argil, NFNC

SH: rdorn-orng, vf txt, amorph-sbblky,

30 Aug 2010

TD 3775

Wt 8.9

Vis 42

FL 15.0

PV/YP 9/8

Gels 3/8/12

pH 10.4

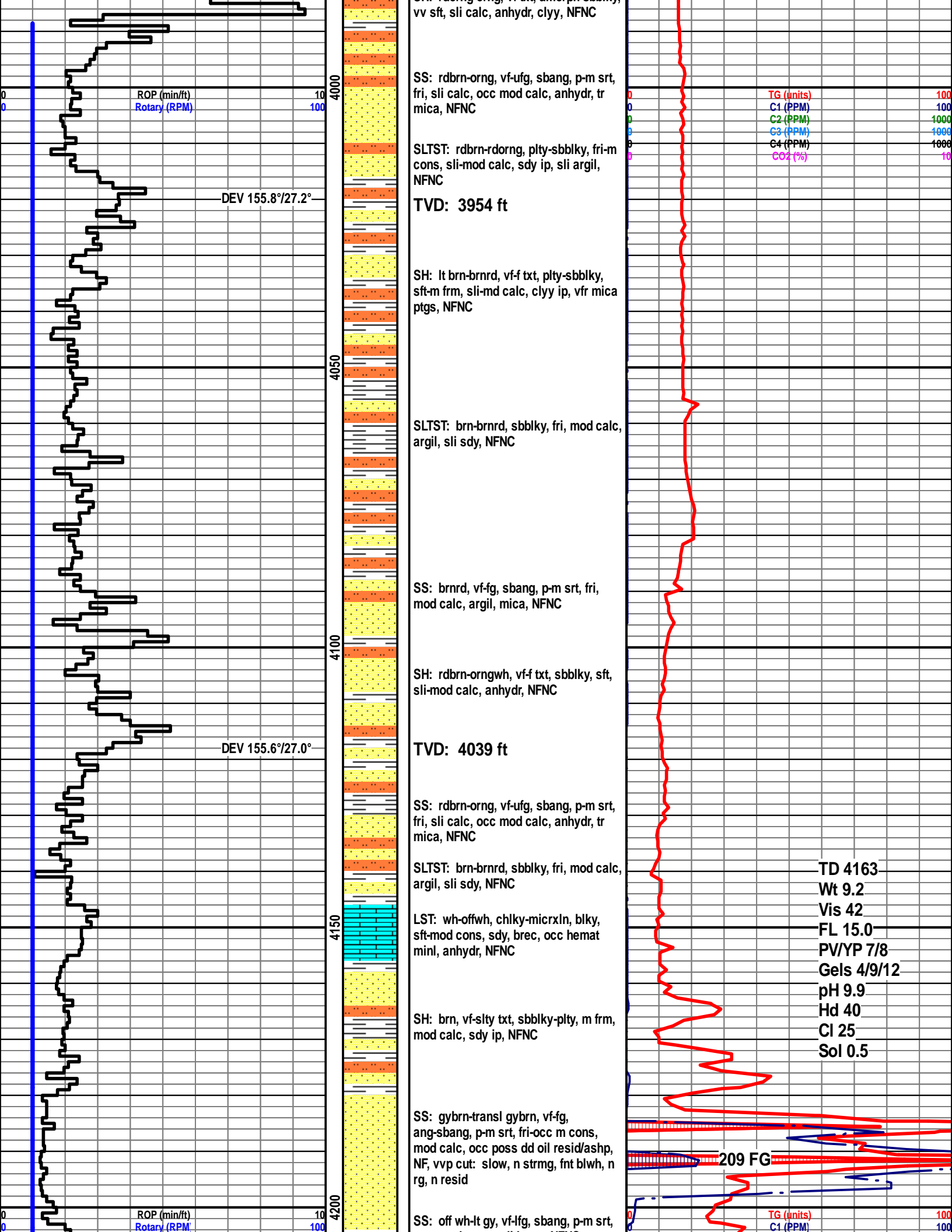
Hd 40

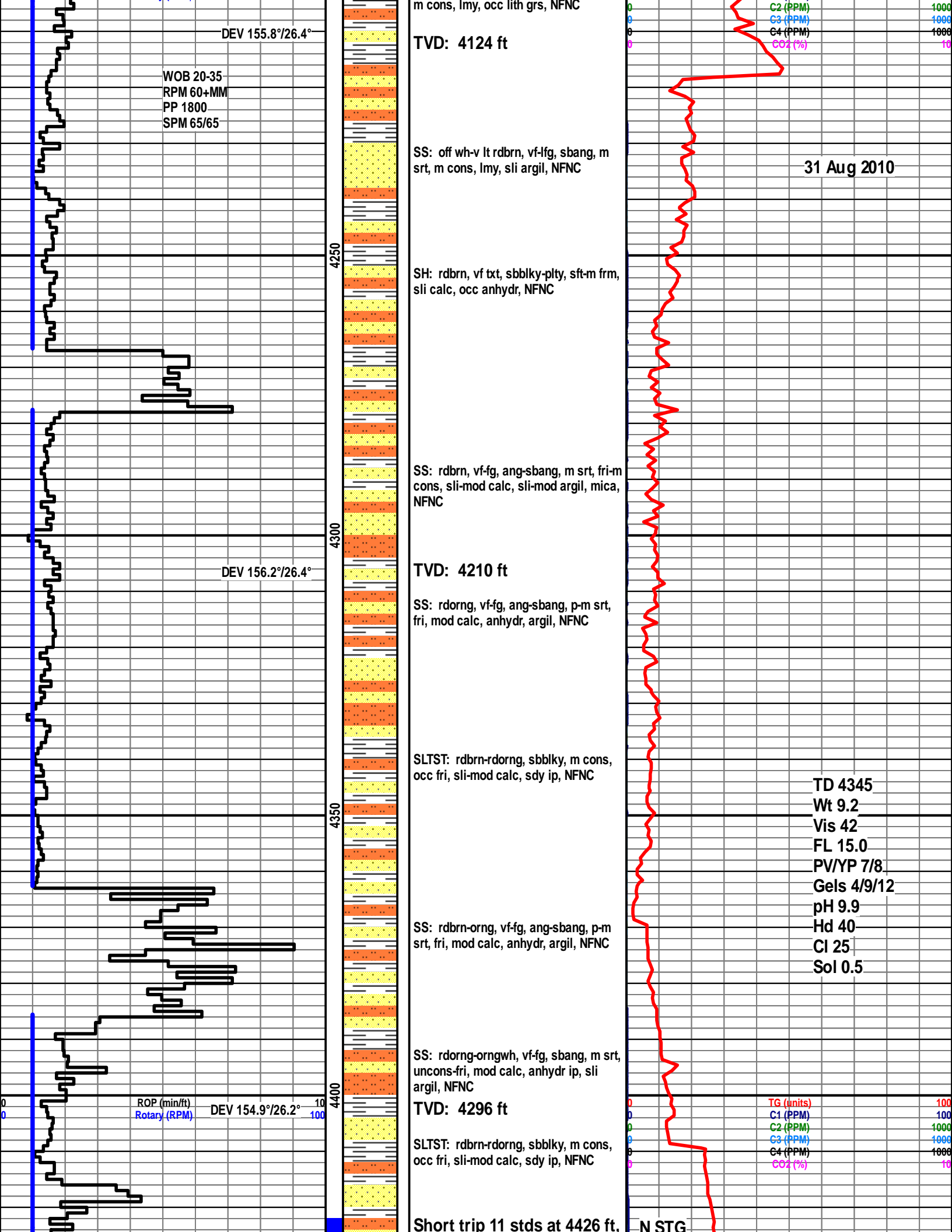
Cl 25

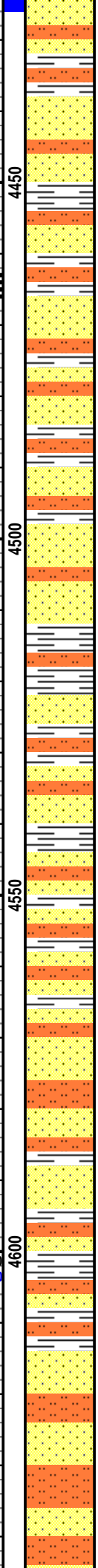
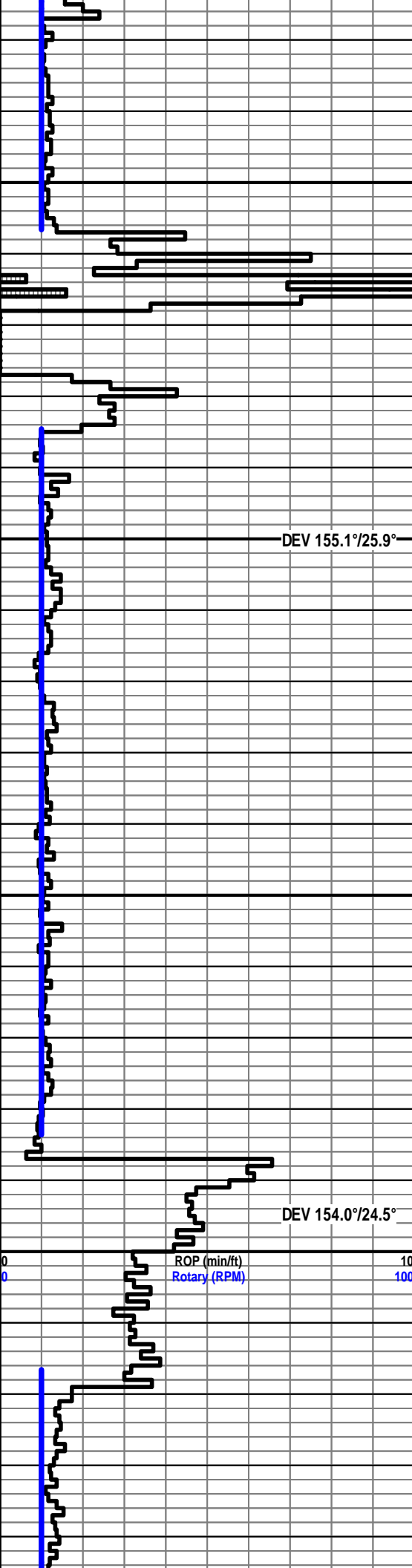
Sol 0.5

TG (units)  
C1 (PPM)  
C2 (PPM)  
C3 (PPM)  
C4 (PPM)  
CO2 (%)

Test gas at shaker







no problems

SS: rdbrn-rdorng, vf-fg, ang-sbang, p srt, fri-m cons, mod calc, sli argil, occ lith grs, mica, NFNC

SH: rdbrn, f txt, plty, m frm-frm, n calc, occ vf mica ptgs, NFNC

SH/CLYST: rdbrn, rdorng, vf txt, plty-sbblky, sft, sli calc ip, NFNC

SLTST: rdbrn-rdorng, sbblky, m cons, occ fri, sli calc, sdy ip, NFNC

**TVD: 4382 ft**

SS: rdbrn, rdorng, vf-ufg, ang-sbang, p srt, m cons, sli calc, tr lith grs, sli argil, mica, anhydr, NFNC

SLTST: rdbrn-rdorng, sbblky, m cons, occ fri, sli-mod calc, sdy ip, NFNC

SH: orngwh, vf txt, chlky ip, sbblky, sft, lmy, anhydr, NFNC

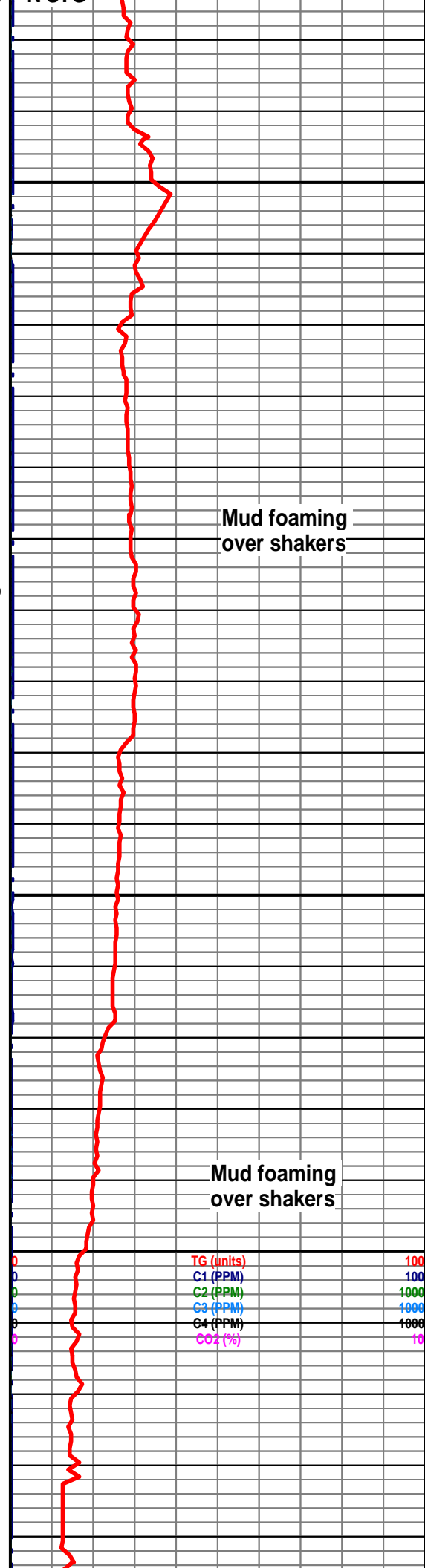
SH: rdbrn, vf txt, plty, frm, n calc, NFNC

SLTST: rdorng, sbblky, fri-m cons, sli-mod calc, sdy ip, NFNC

**TVD: 4469 ft**

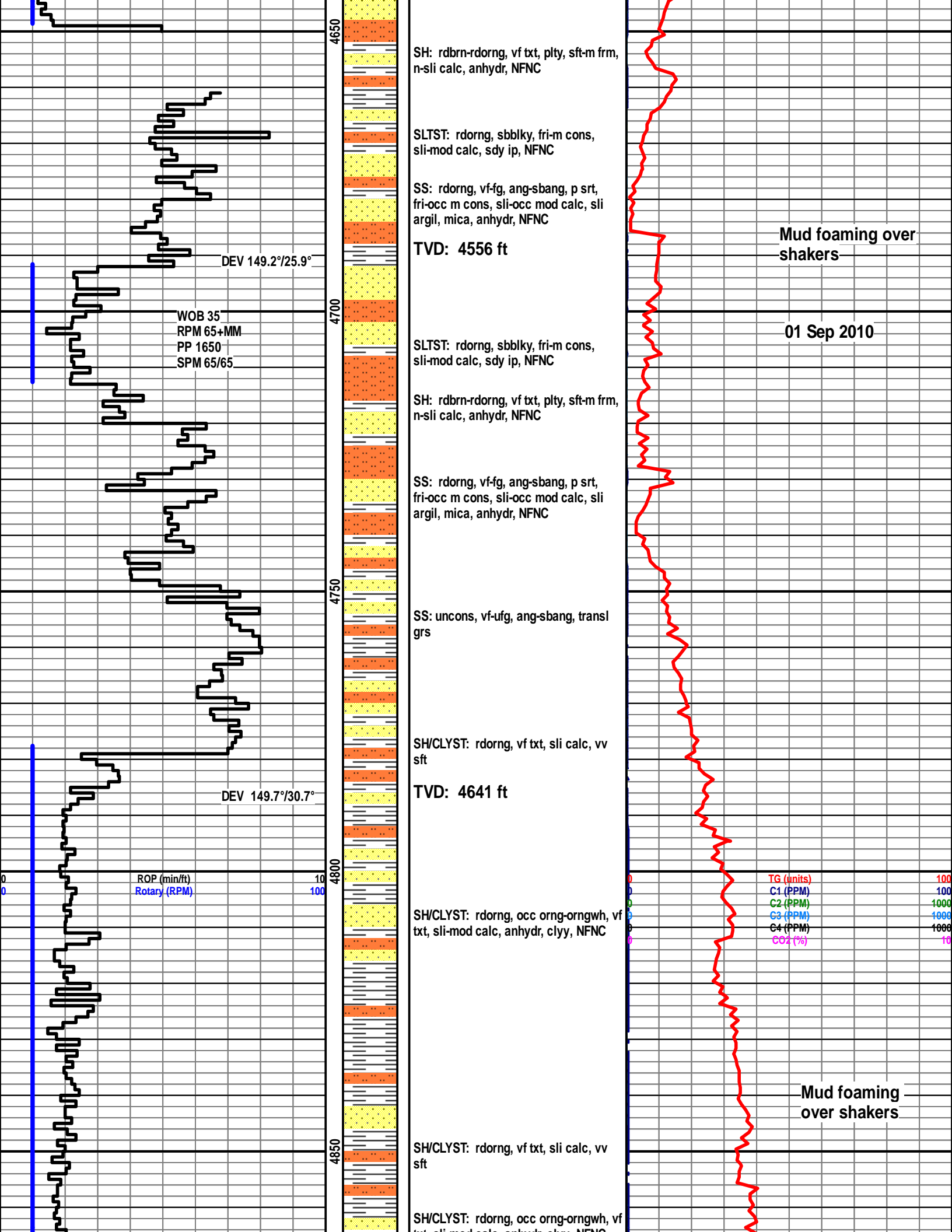
SH: rdbrn-rdorng, vf txt, plty, sft-m frm, n-sli calc, anhydr, NFNC

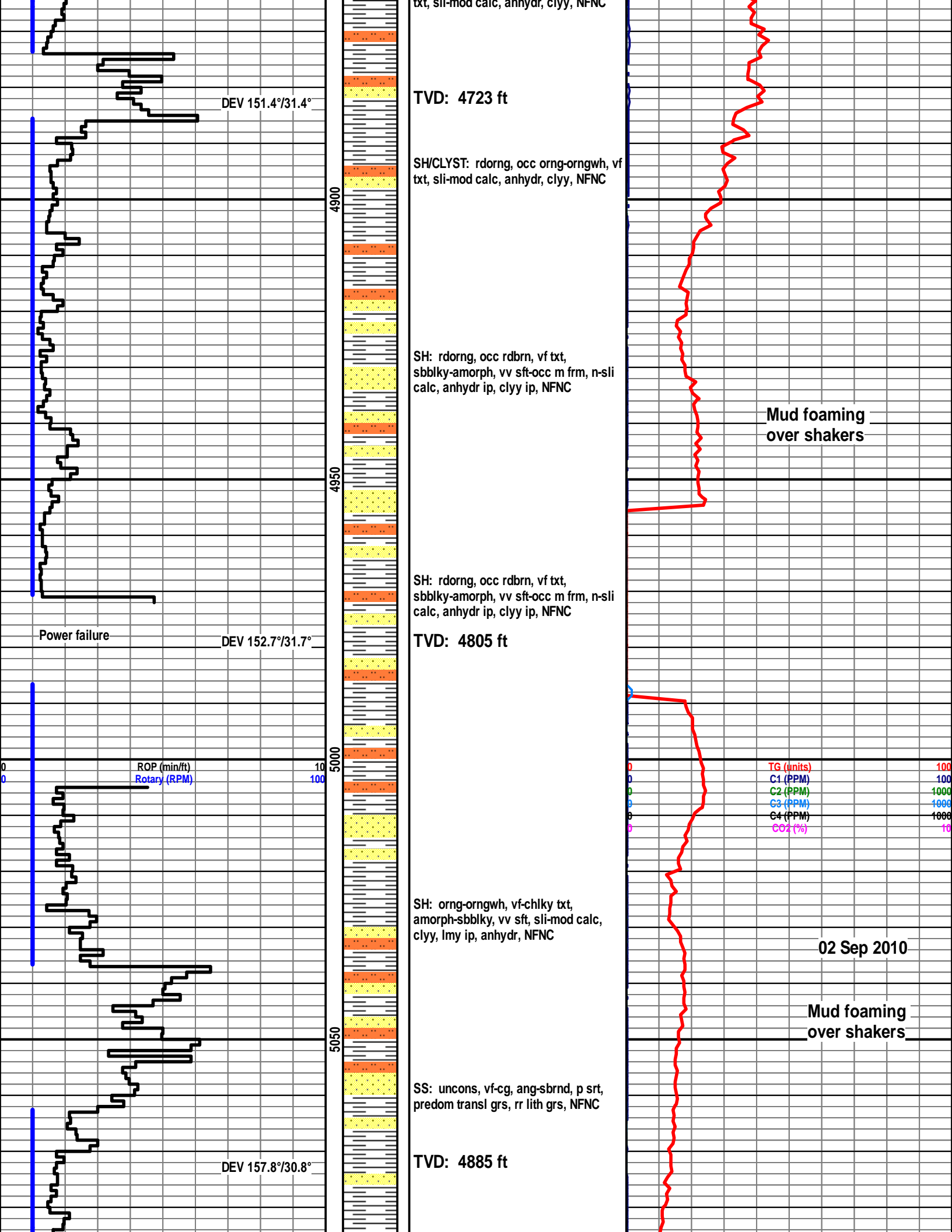
SS: rdorng, vf-fg, ang-sbang, p srt, fri-occ m cons, sli-occ mod calc, sli argil, mica, argil, NFNC

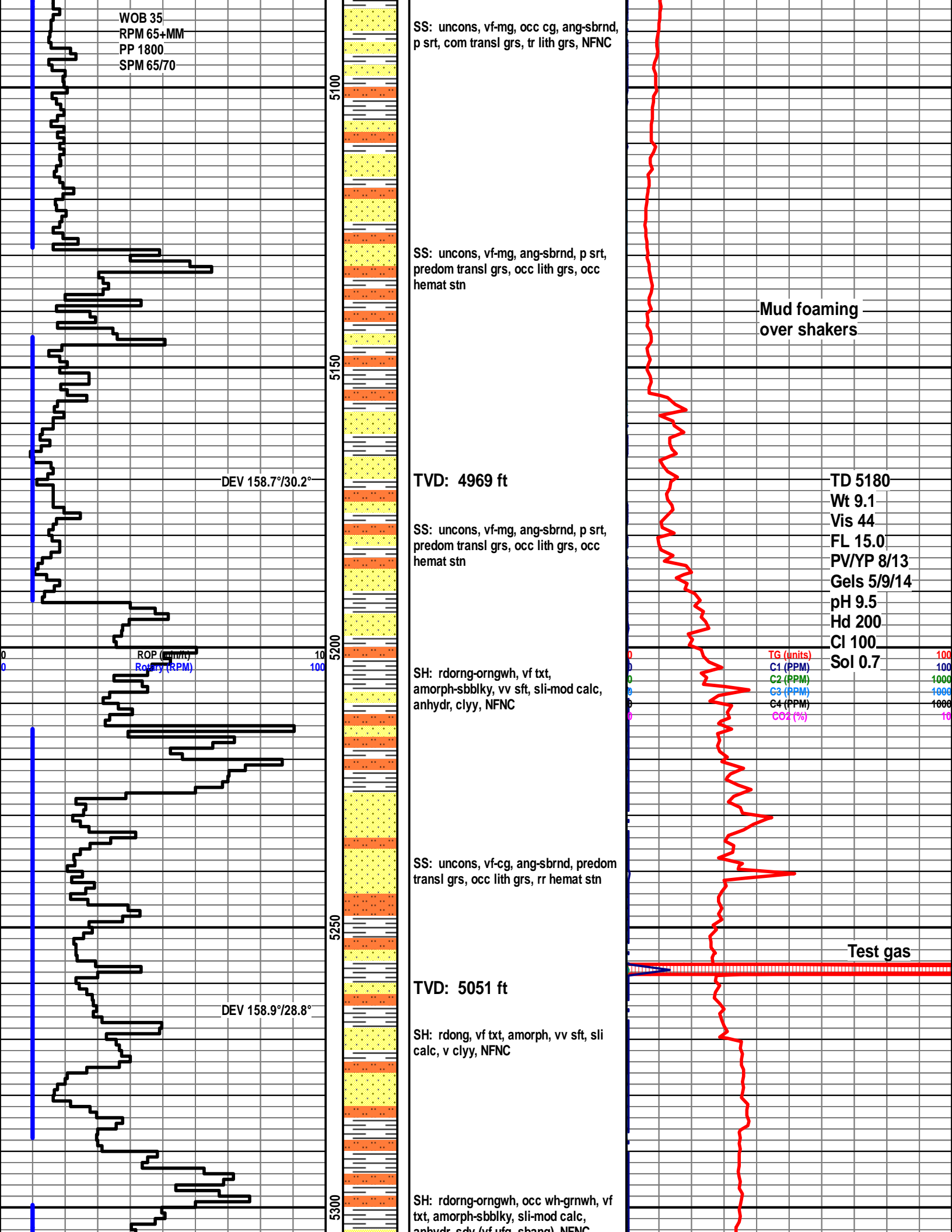


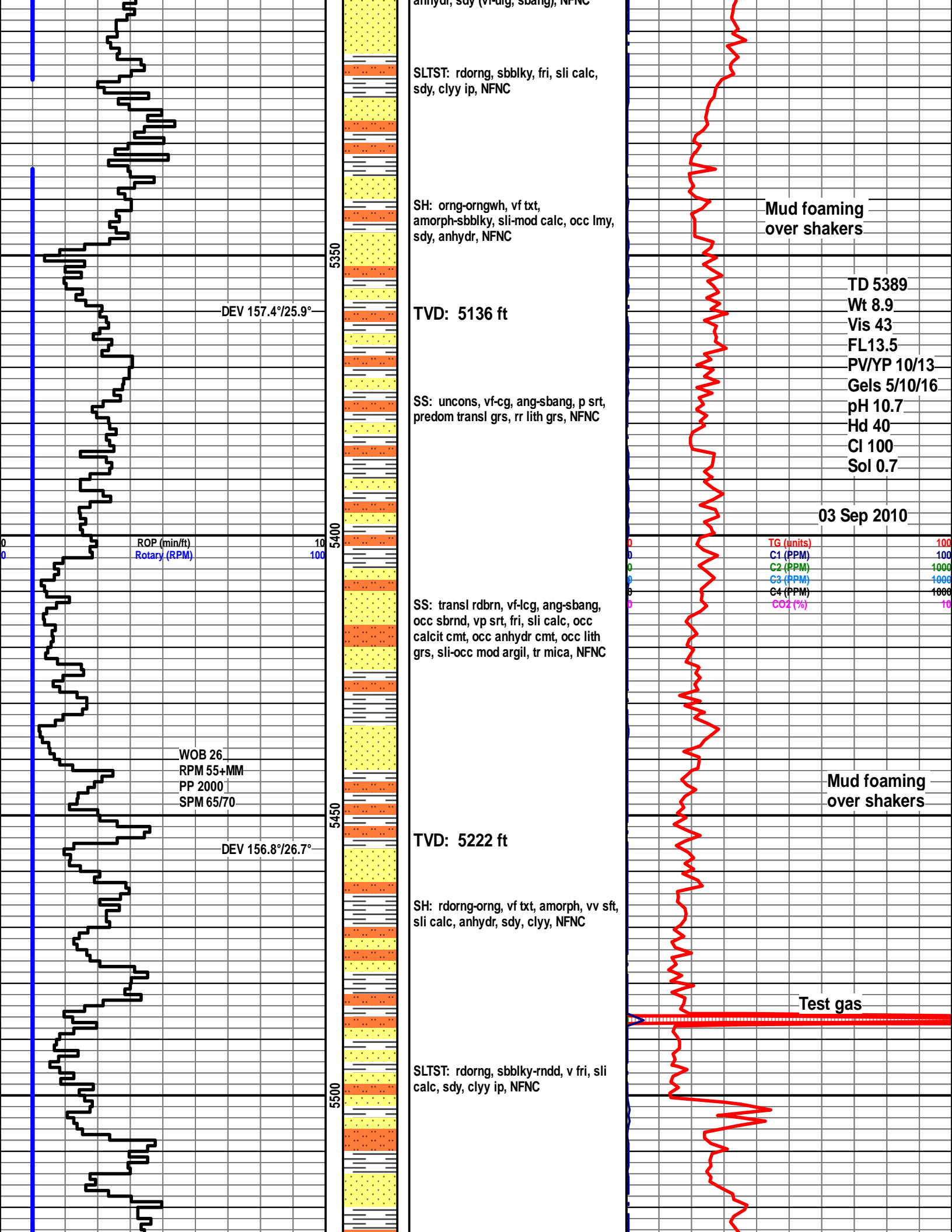
TG (units)  
C1 (PPM)  
C2 (PPM)  
C3 (PPM)  
C4 (PPM)  
CO2 (%)

100  
100  
1000  
1000  
1000  
10

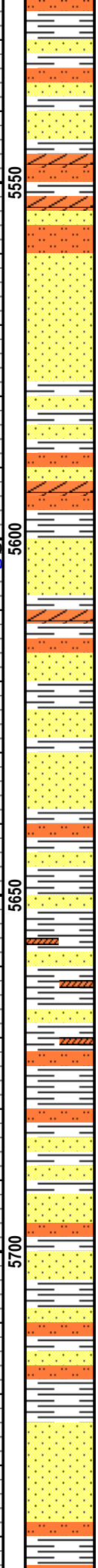
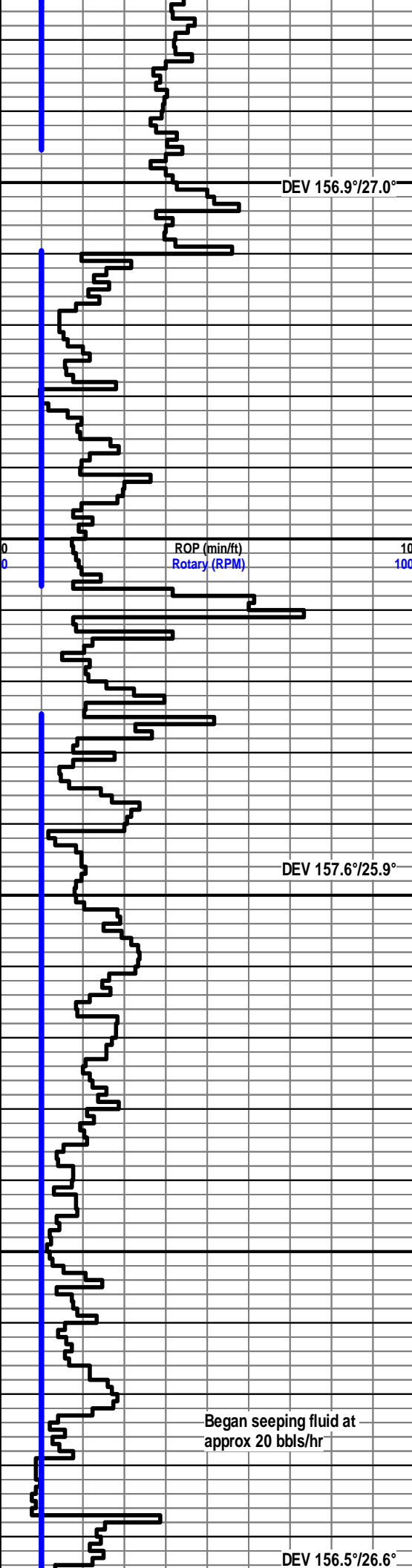












ANHYDR: wh-offwh, chlky, amorph, vv sft, NFNC

TVD: 5307 ft

SS/CONGL: pl rdbrn-transl rdbrn, vf-vcg, ang-sbrnd, vp-p srt, uncons-fri, sli argil, occ calcit cmt, occ lith grs, tr cht, occ mica, NFNC

ANHYDR: wh-offwh, chlky, amorph, vv sft, NFNC

SH: rdorng-orngwh, vf-chlky txt, amorph-sbblky, rndd, vv sft, mod calc, anhydr, NFNC

SS: rdbrn, vf-cg, ang-rndd, vp srt, fri, sli calc, sli-mod argil, mica, occ lith grs, NFNC

TVD: 5393 ft

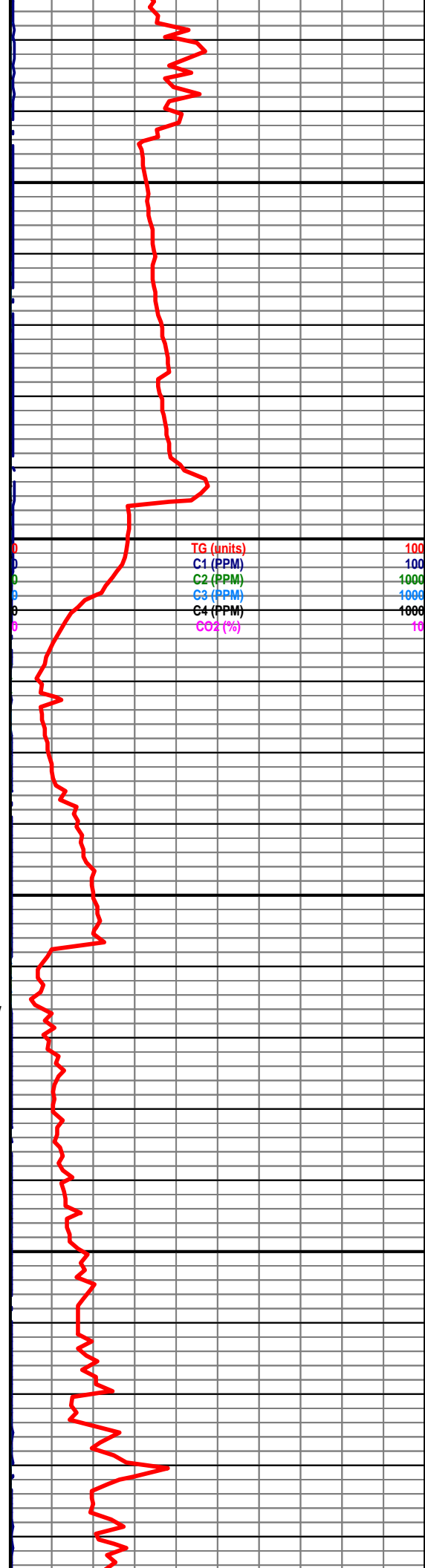
SH: rdng, vf-f txt, sbblky, sft, occ m frm, n-sli calc, clyy ip, NFNC

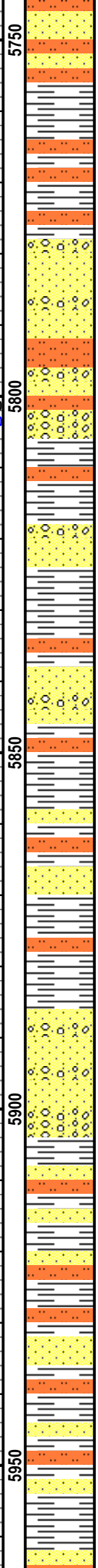
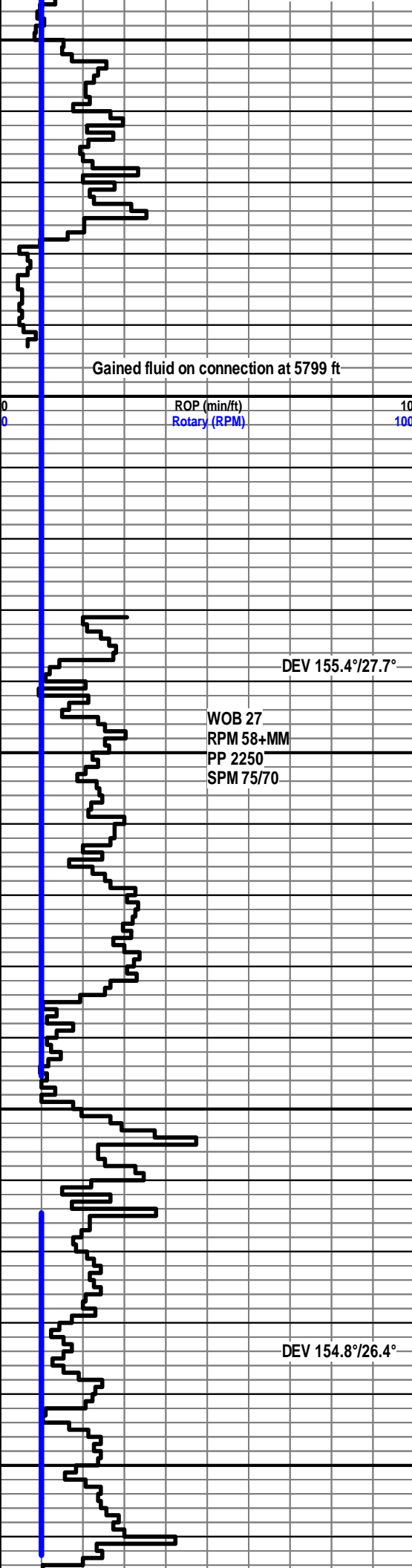
ANHYDR: wh-offwh, mot orngwh, chlky txt, vv sft, mod calc, intbdd w/clyst, NFNC

SS: rdbrn-m dk rdbrn, vf-umg, ang-rndd, p srt, fri-m cons, argil, occ lith grs, occ mica, NFNC

SS/CONGL: uncons, vf-vcg, ang-sbrndd, occ hemat stn, occ lith grs, occ cht

TVD: 5479 ft





SH: rdbrn-rdorn, occ orngwh, vf txt, occ chlky, amorph-sbblky, mod calc ip, intbdd anhydr, NFNC

SS/CONGL: uncons, vf-vcg, ang-sbrnd, occ hemat stn, occ clyy, occ lith grs, occ cht

**Possible water flow, gained 40 bbls in 1.25 hrs**

SH: rdbrn, f txt, sbblky, m frm, n calc, NFNC

SS: rdbrn, vf-mg, ang-sbrnd, p srt, fri, argil, sli calc, occ lith grs, NFNC

**Shut well in at 5831 ft for water flow, 205 SIDPP, 218 SICP. KWM 10.2. Min MW during kill 9.2**

SH/CLYST: rdorn-rdbrn, vf txt, amorph-sbblky/rnd, vv sft, mod calc, anhydr, NFNC

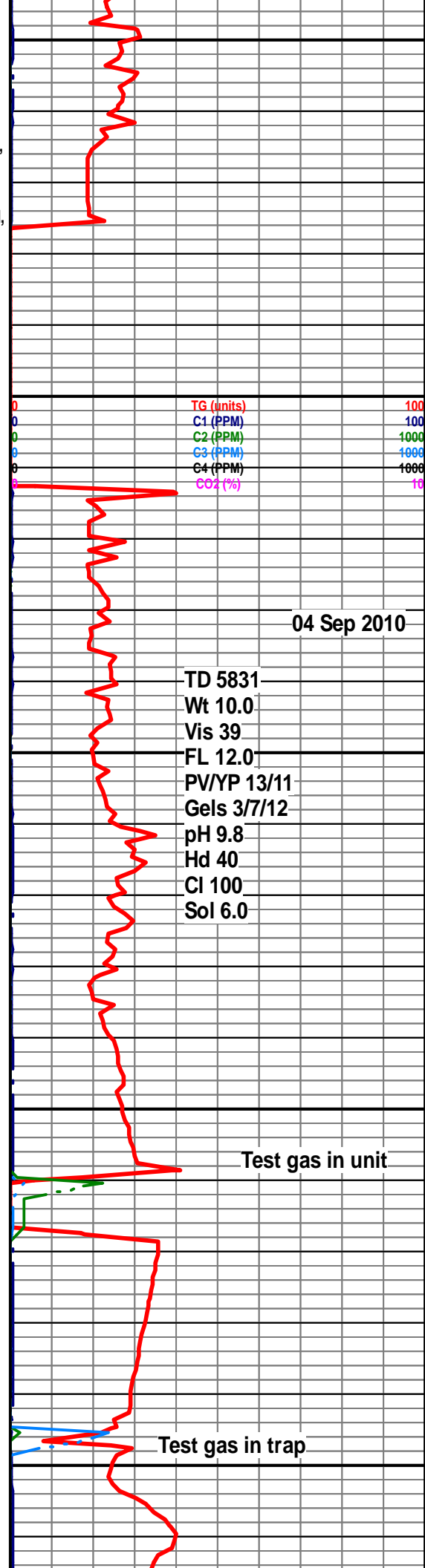
SS: rdbrn-m dk rdbrn, vf-mg, ang-sbrnd, p srt, fri-m cons, n-sli calc, argil, mica, NFNC

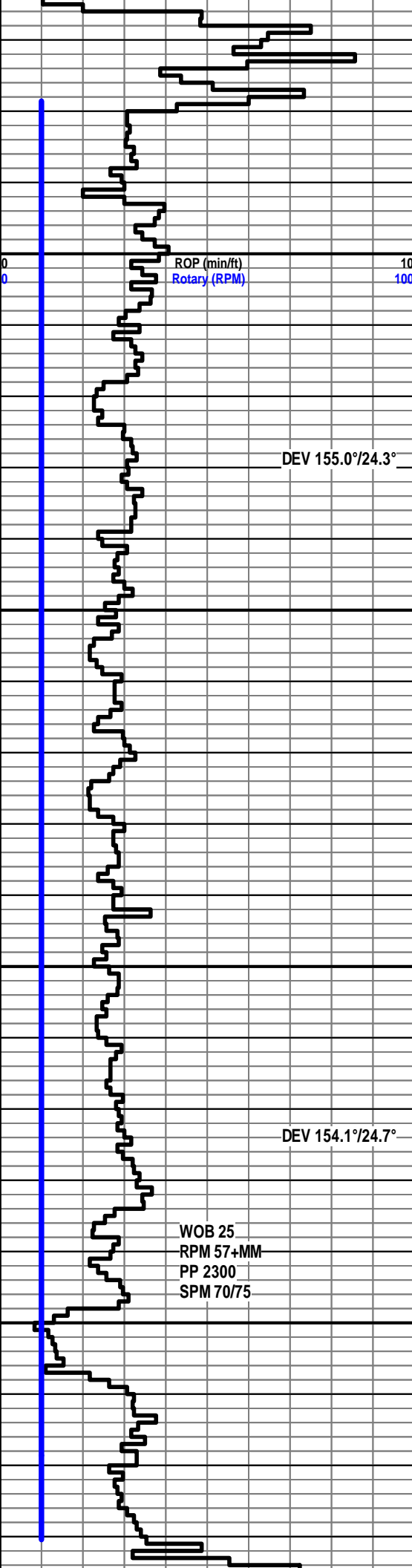
CONGL: uncons, vf-vcg, ang-rndd, vp srt, occ lith grs, com free mica, tr cht, occ hemat stn, NFNC

SH: orng-orngwh, chlky-vf txt, sbblky, vv sft, mod calc, anhydr, NFNC

**TVD: 5649 ft**

SS: rdbrn, vf-umg, ang-sbrnd, occ rndd, fri, n calc, occ lith grs, argil, mica, NFNC





SH/CLYST: orng-orngwh, vf txt, sbblky, vv sft, sli-mod calc, anhydr, NFNC

SLTST: rdorng, sbblky-sbrndd, fri, sli calc, sdy, argil, vf mica, NFNC

SS: uncons, vf-cg, ang-sbrnd, occ lith grs, NFNC  
TVD: 5735 ft

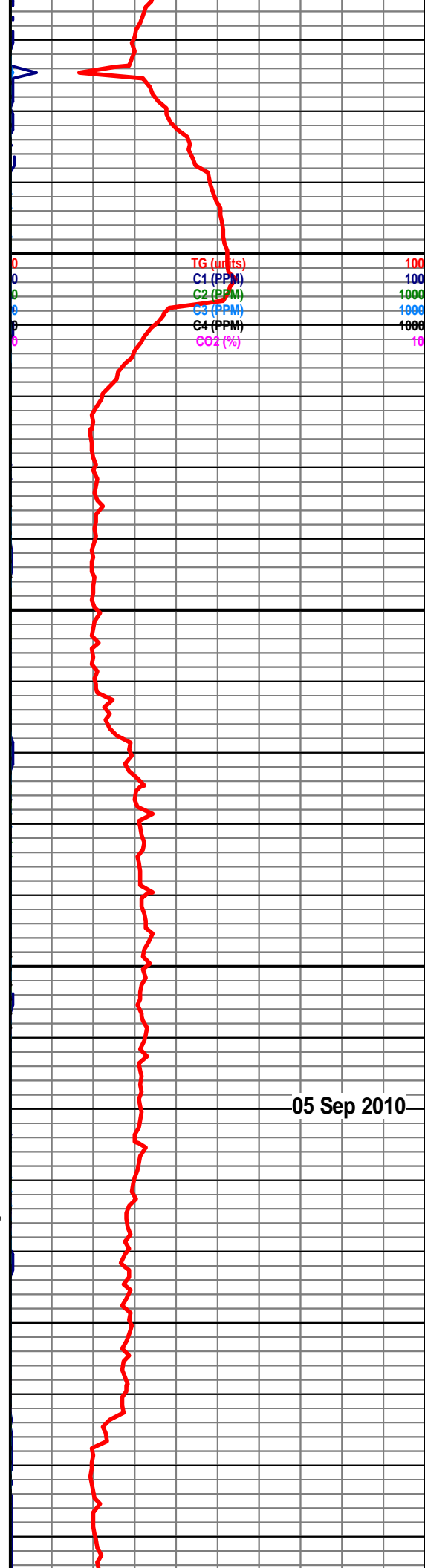
SH: rdorng-orngwh, vf txt, amorph-sbblky, vv sft, mod calc, anhydr, clyy, NFNC

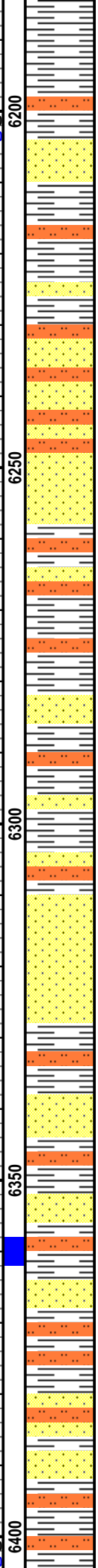
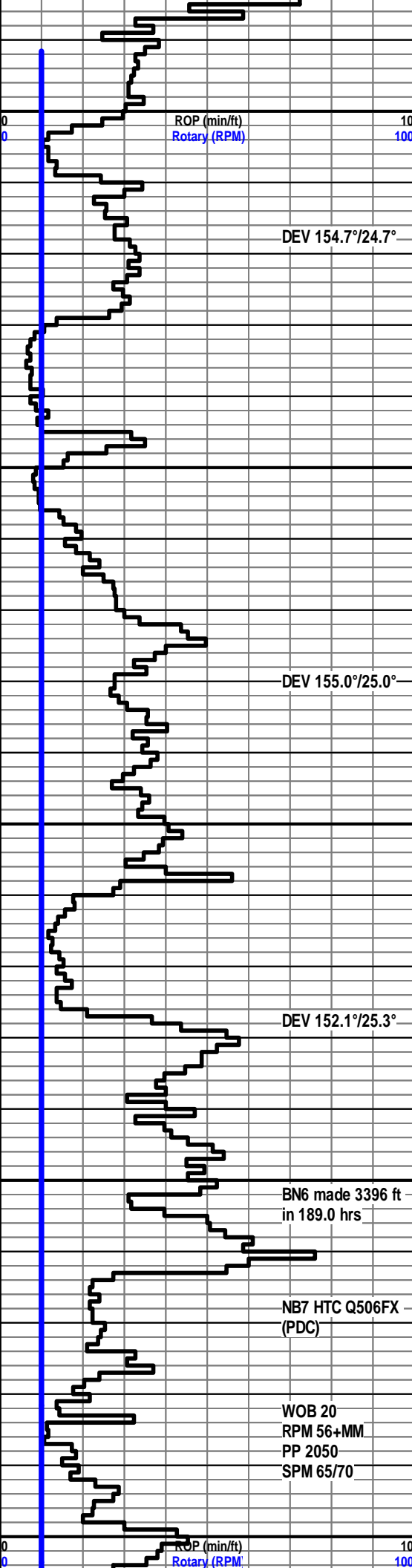
SS: rdbrn-rdorng, vf-mg, ang-sbrnd, p srt, fri, n calc, argil, mica, NFNC

TVD: 5821 ft

SH/CLYST: rdorng-orng, vf txt, amorph-sbblky, vv sft, sli calc, anhydr, NFNC

SLTST: rdbrn-rdorng, sbblky-sbrnd, fri, sli calc, sdy, argil, NFNC





SS: rdbrn, vf-umg, ang-sbang, tr sbrnd,  
p srt, fri-uncons, sli argil, occ lith grs,  
mica, NFNC

TVD: 5906 ft

SS/CONGL: uncons, vf-vcg, ang-rnnd,  
vp srt, com lith grs, occ hemat stn,  
NFNC

SS: rdbrn, vf-umg, ang-sbang, tr sbrnd,  
p srt, fri-uncons, sli argil, occ lith grs,  
mica, NFNC

TVD: 5963 ft

SLTST: rdbrn-rdorng, sbblky-sbrnd, fri,  
sli calc, sdy, argil, NFNC

SS/CONGL: uncons, vf-vcg, ang-rnnd,  
vp srt, com lith grs, occ hemat stn,  
NFNC

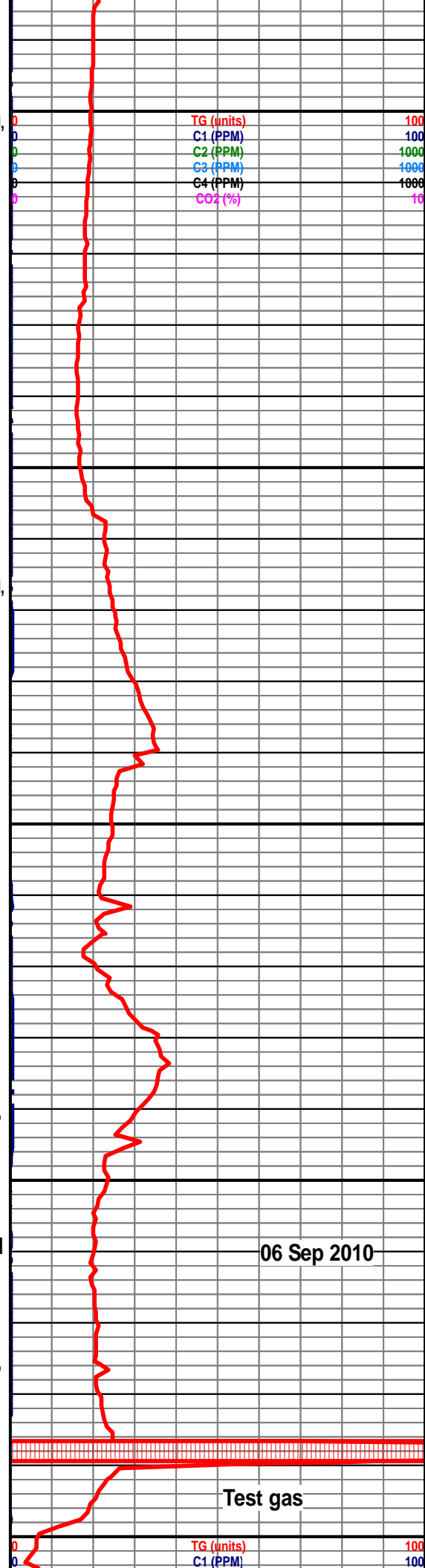
TVD: 6006 ft

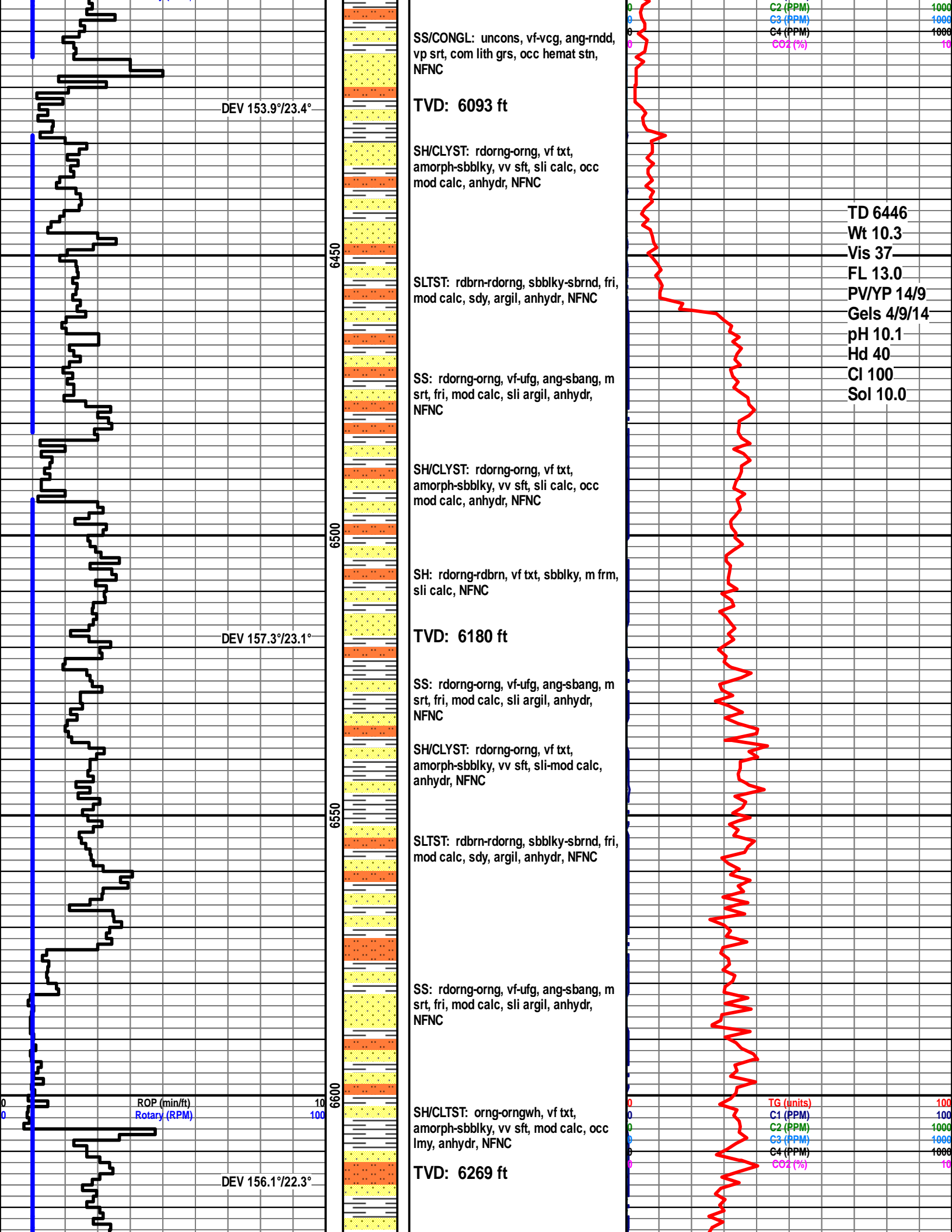
SH/CLYST: rdorngporng, vf txt,  
amorph-sbblky, vv sft, sli calc, anhydr,  
NFNC

TOH at 6362 ft for NB7, SLM  
on TIH

SH/CLYST: rdorngporng, vf txt,  
amorph-sbblky, vv sft, sli calc, anhydr,  
NFNC

SLTST: rdbrn-rdorng, sbblky-sbrnd, fri,  
sli-mod calc, sdy, argil, NFNC





WOB 20  
RPM 56+MM  
PP 2050  
SPM 65/70

6650

SLTST: rdbnrn-rdorng, sbblky-sbrnd, fri,  
mod calc, argil, anhydr, NFNC

6700

SH/CLYST: orng-orngwh, vf txt,  
amorph-sbblky, vv sft, mod calc, occ  
lmy, anhydr, NFNC

SS: orng, vf-ufg, ang-sbang, m srt, fri,  
mod-v calc, sli argil, anhydr, NFNC

TVD: 6357 ft

DEV 155.8°/21.8°

SH: orng-orngwh, vf txt, sbblky-rnnd,  
vv sft, lmy, anhydr, NFNC

6750

SH/CLYST: salm-orngwh, vf txt,  
sbblky-rnnd, vv sft, v calc-lmy, anhydr,  
NFNC

SH/CLYST: salm-orngwh, occ mot  
orng-wh, vf txt, sbblky-rnnd, vv sft,  
mod-v calc, anhydr, occ free anhydr,  
NFNC

6800

TVD: 6537 ft

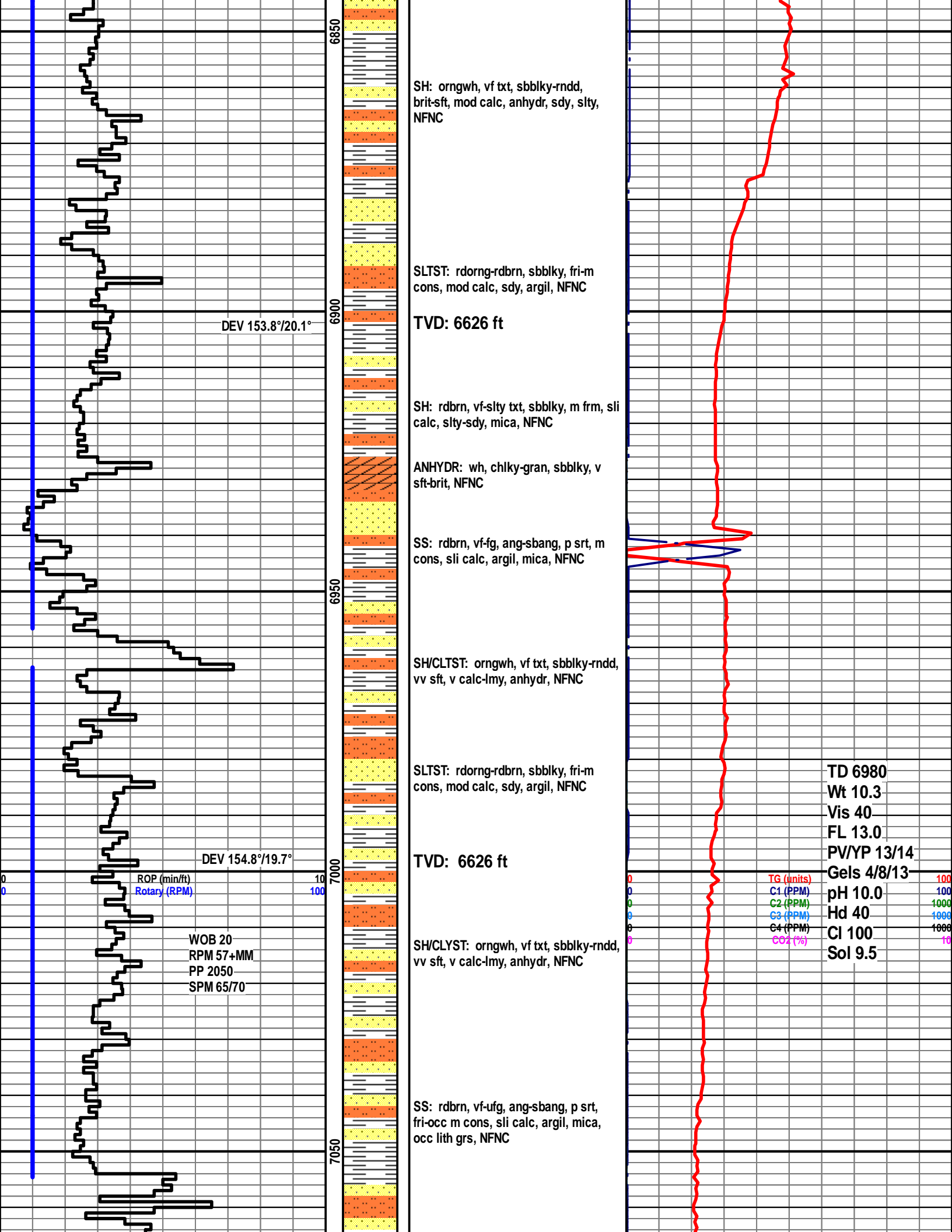
ROP (min/ft)  
Rotary (RPM)

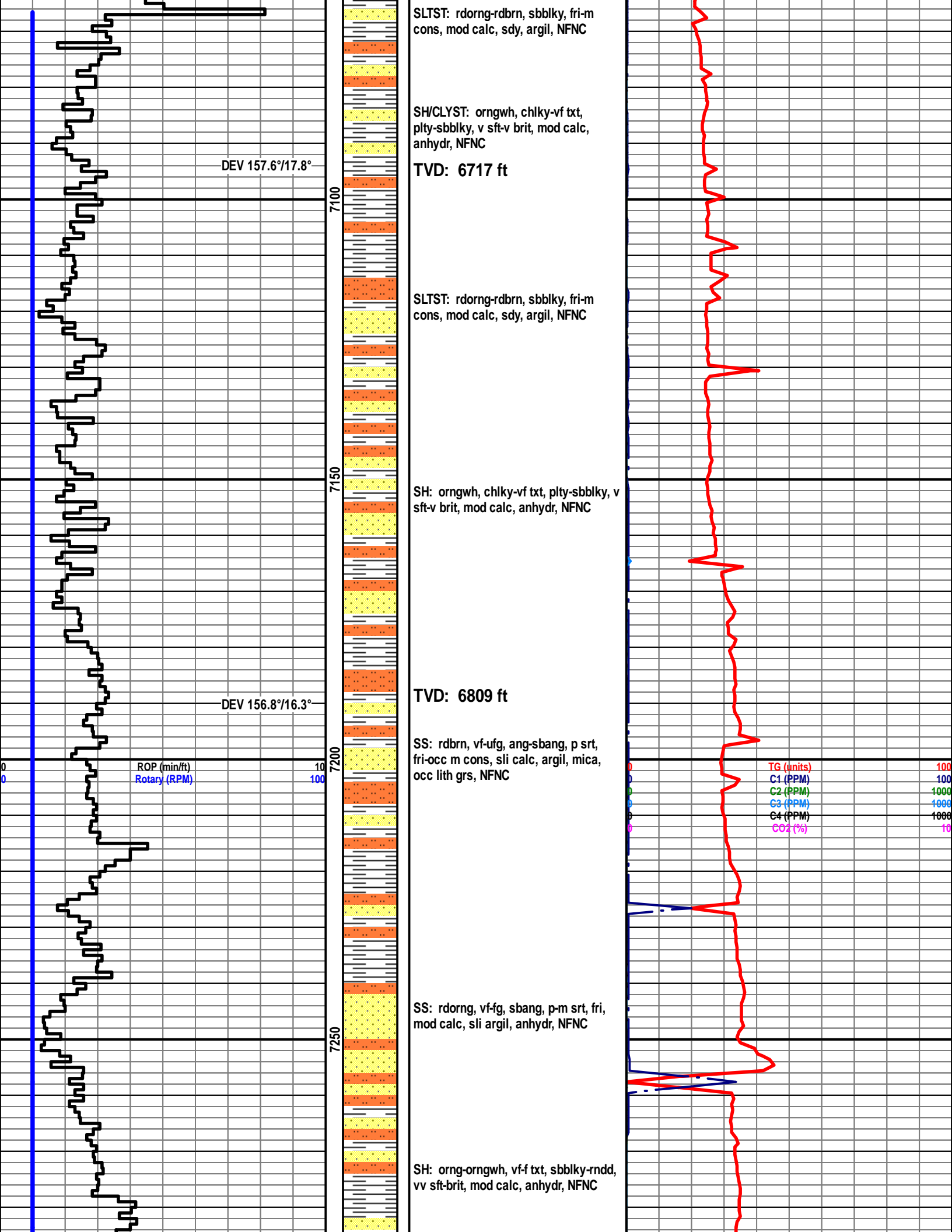
DEV 154.8°/21.4°

SH: orngwh-salm, vf-slty txt,  
flky-sbblky, brit-sft, mod calc, occ  
calcit, sdy-slty ip, anydr, NFNC

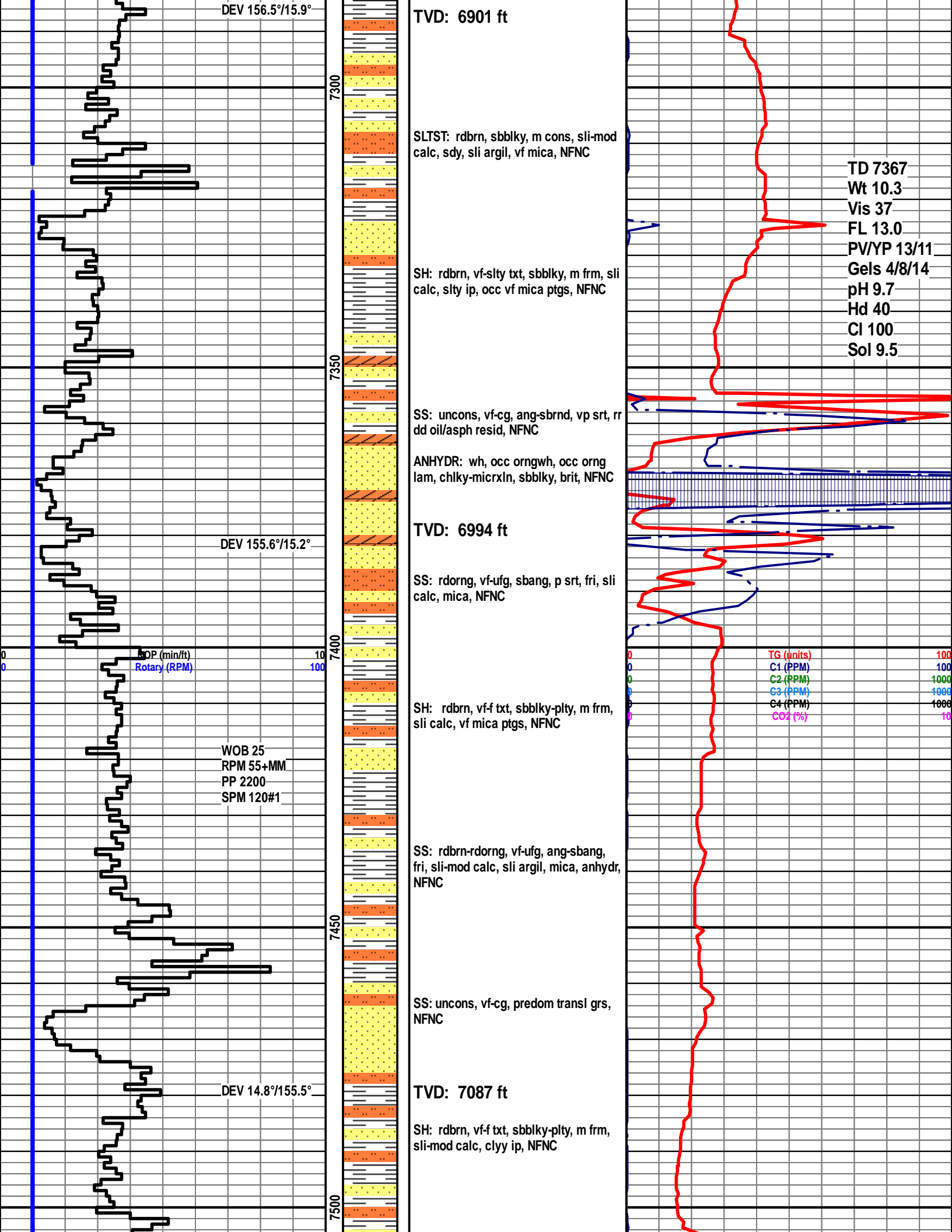
TG (units)  
C1 (PPM)  
C2 (PPM)  
C3 (PPM)  
C4 (PPM)  
CO2 (%)

100  
100  
1000  
1000  
1000  
1000  
10









DEV 156.5°/15.9°

TVD: 6901 ft

SLTST: rdbnr, sbblky, m cons, sli-mod calc, sdy, sli argil, vf mica, NFNC

SH: rdbnr, vf-slty txt, sbblky, m frm, sli calc, slty ip, occ vf mica ptgs, NFNC

SS: uncon, vf-cg, ang-sbrnd, vp srt, rr dd oil/asph resid, NFNC

ANHYDR: wh, occ orngwh, occ orng lam, chlky-micrxln, sbblky, brit, NFNC

TVD: 6994 ft

SS: rdorng, vf-ufg, sbang, p srt, fri, sli calc, mica, NFNC

SH: rdbnr, vf-f txt, sbblky-plty, m frm, sli calc, vf mica ptgs, NFNC

SS: rdbnr-rdorng, vf-ufg, ang-sbang, fri, sli-mod calc, sli argil, mica, anhydr, NFNC

SS: uncon, vf-cg, predom transl grs, NFNC

TVD: 7087 ft

SH: rdbnr, vf-f txt, sbblky-plty, m frm, sli-mod calc, clyy ip, NFNC

DEV 155.6°/15.2°

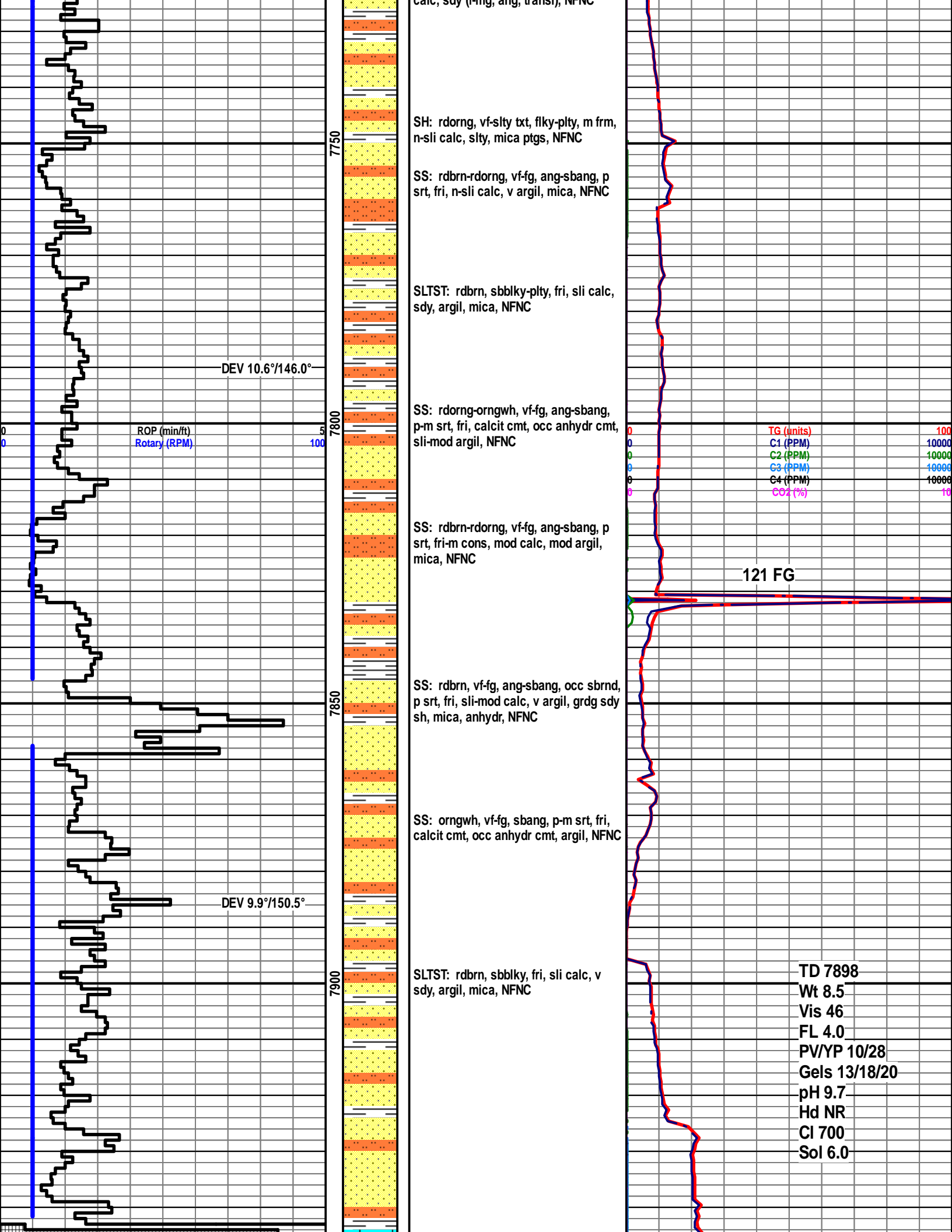
WOB 25  
RPM 55+MM  
PP 2200  
SPM 120#1

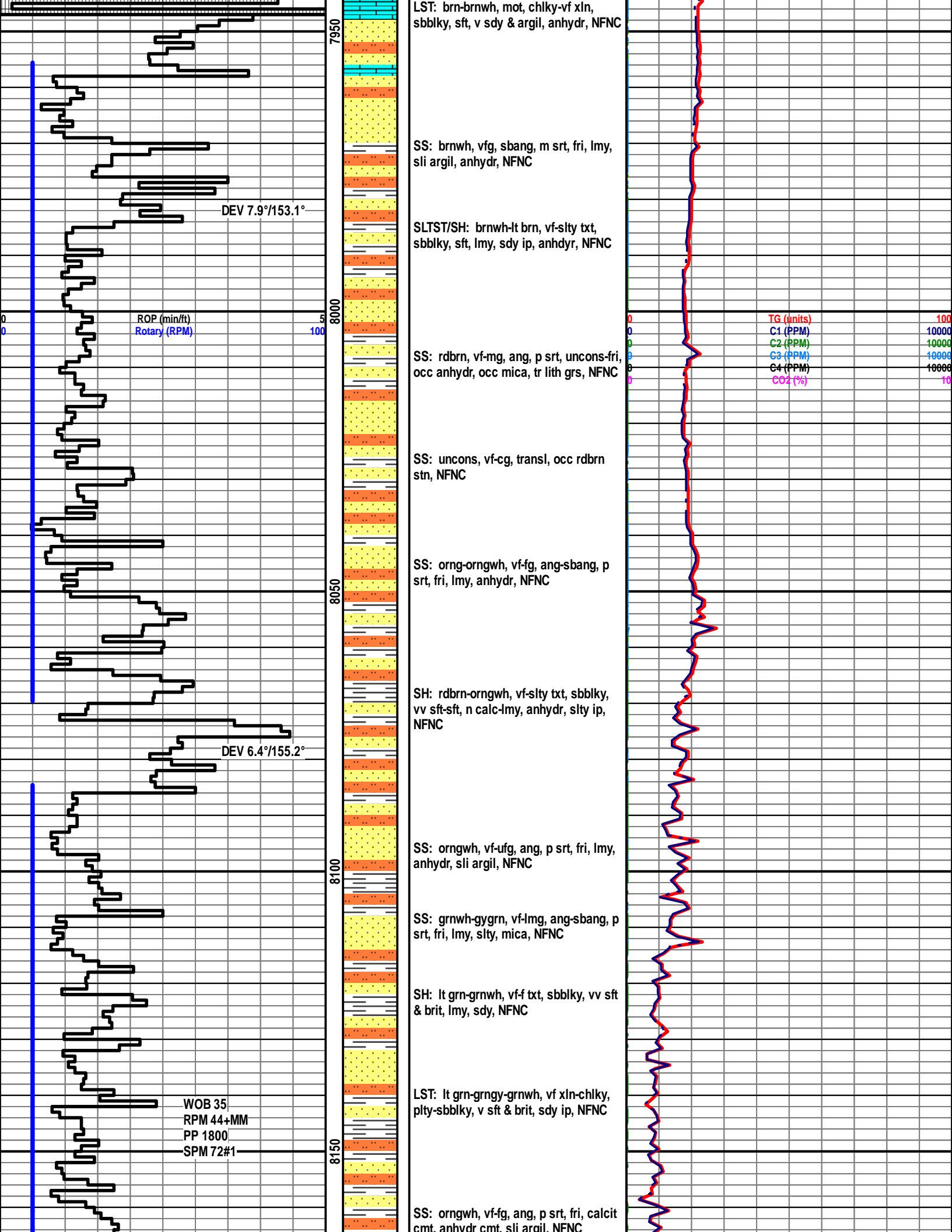
DEV 14.8°/155.5°

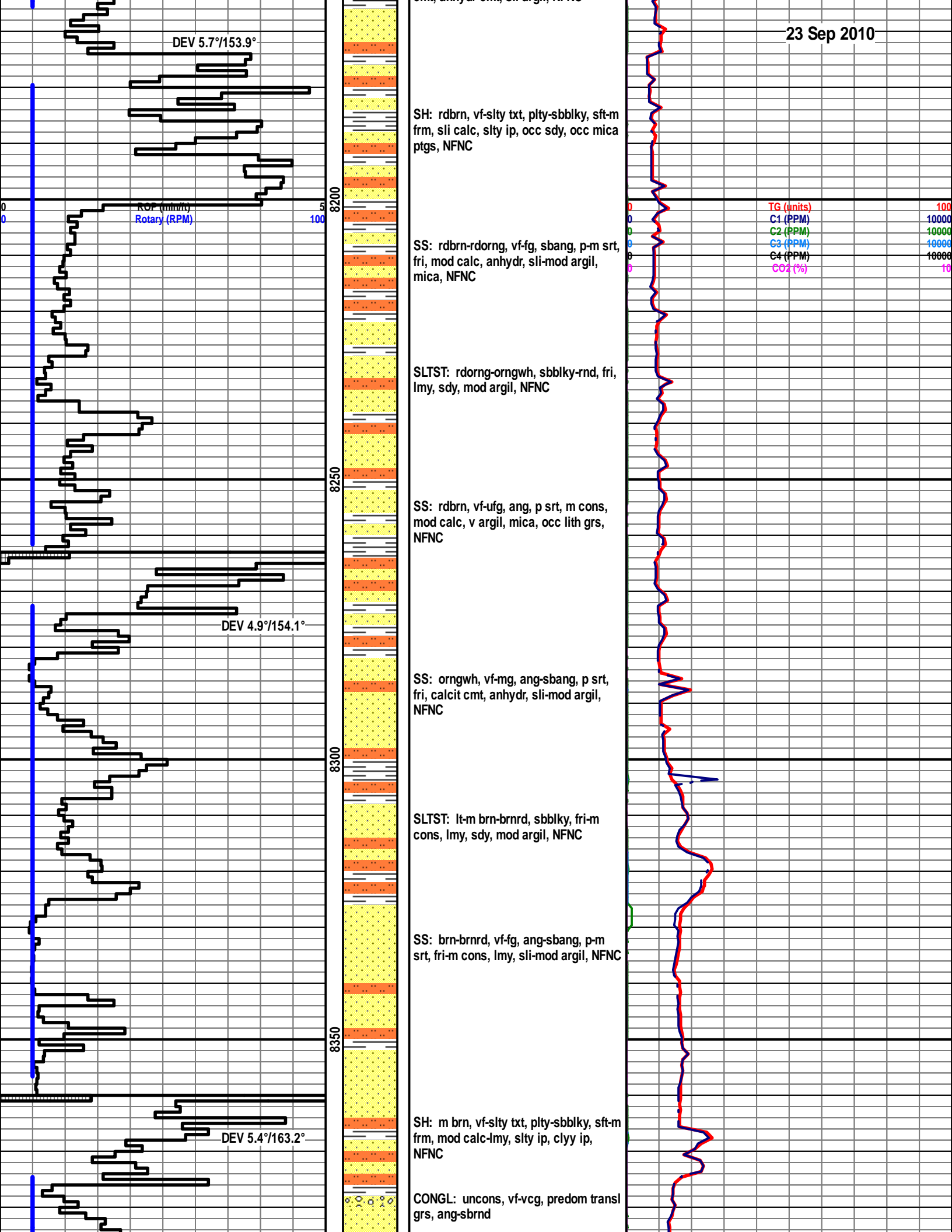
TD 7367  
Wt 10.3  
Vis 37  
FL 13.0  
PV/YP 13/11  
Gels 4/8/14  
pH 9.7  
Hd 40  
CI 100  
Sol 9.5

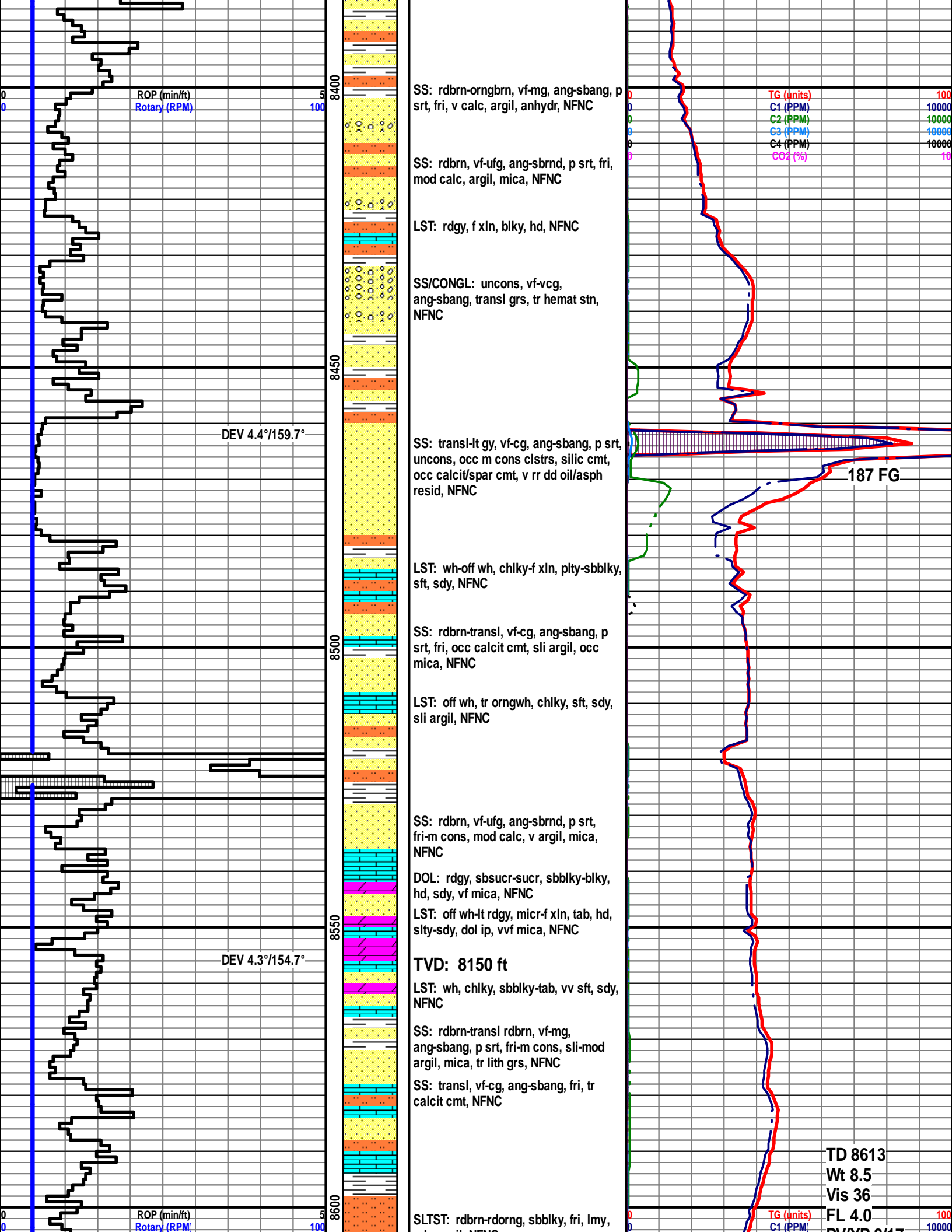
TG (units)  
C1 (PPM)  
C2 (PPM)  
C3 (PPM)  
C4 (PPM)  
CO2 (%)

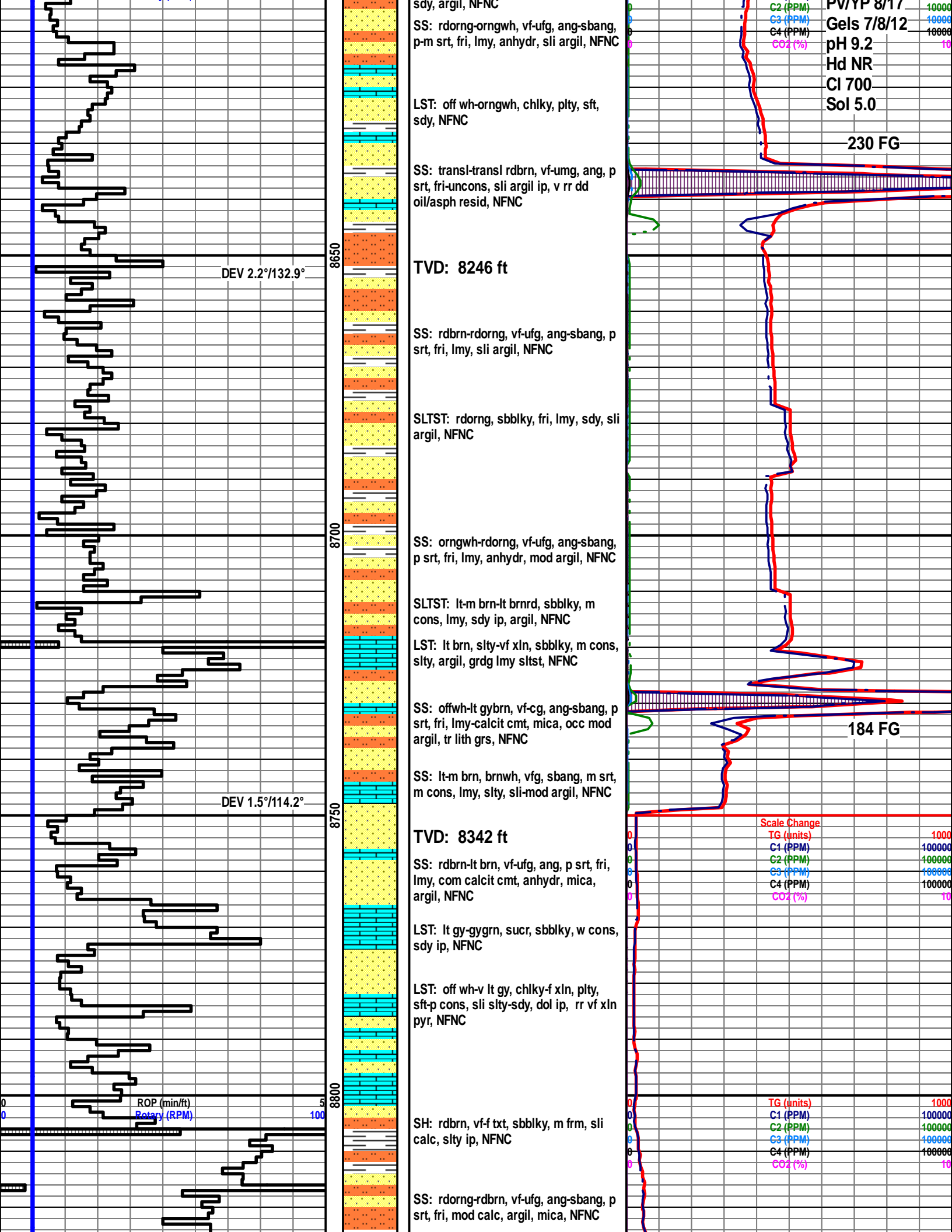




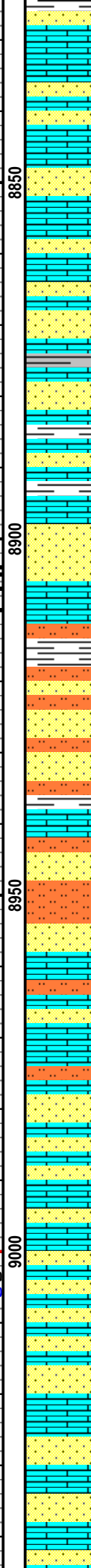
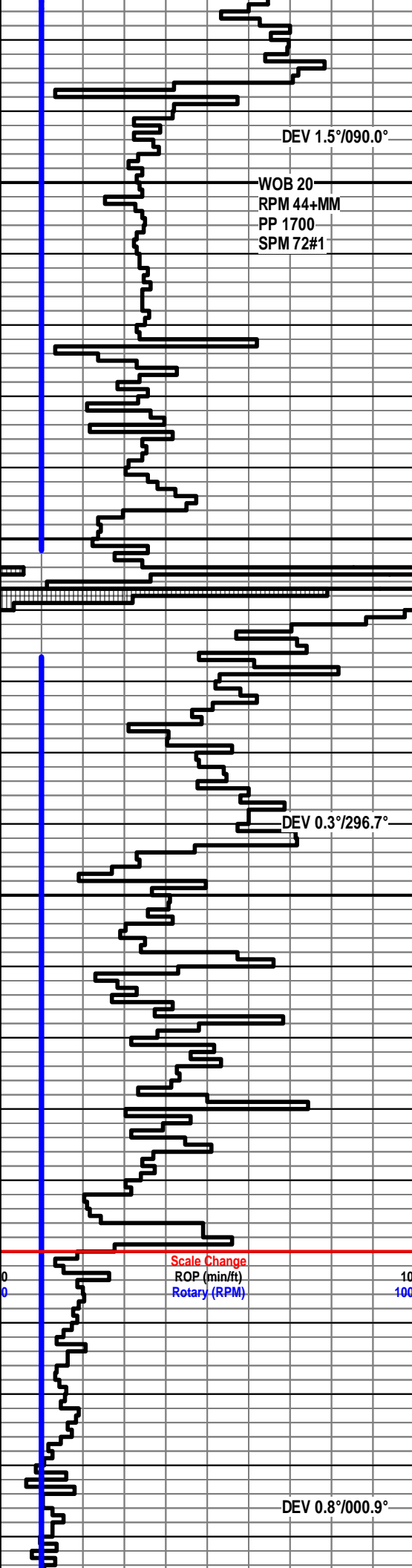












LST: lt-m dk gybrn, micr-vf xln, plty-tab, w cons-hd, slty-sdy ip, occ cht, occ frac, rr vf xln pyr, NF, vp cut: mod rap, n strmg, fnt blwh, n rg, n resid

TVD: 8438 ft

SS: uncon, vf-mg, ang-sbrnd, occ rnd, occ wh cly resid, rr dd oil resid, NFNC

LST: lt-m dk gybrn, micr-vf xln, plty-tab, w cons-hd, slty-sdy ip, occ cht, occ frac, rr vf xln pyr, NF, vp cut: mod rap, n strmg, fnt blwh, n rg, n resid

SH: dk gybrn, f txt, plty, sft, lmy, NFNC

SH: rdbrn, vf-sltly txt, sbblky, m frm-frm, sli calc, sdy, mica, NFNC

SS: rdbrn, vf-fg, ang-sbang, p srt, m cons, sli calc, argil, mica, NFNC

LST: wh-orngwh, chlky, sft, plty, sdy, NFNC

SLTST: orngwh-pl rdbrn, sbblky, lmy, sdy, sli argil, NFNC

SS: uncon, vf-cg, ang-sbang, com transl grs, NFNC

SLTST: blgy-gygrn, sbly-plty, n calc, mica, NFNC

TVD: 8534 ft

SH: blgy, wxy-sbwxy, flky-plty, sft-m frm, n calc, mica, NFNC

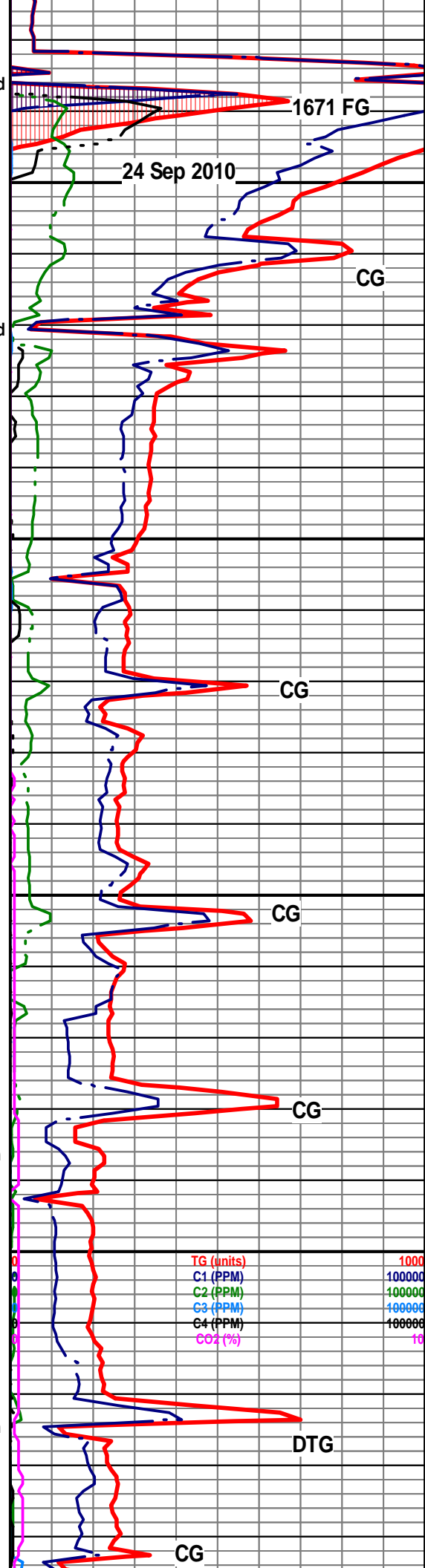
LST: wh-off wh, chlky-vf xln, plty-flky, sft, tr mica, NFNC

SS: rdbrn-rdorng, vf-ufg, ang-sbang, m srt, fri, lmy, argil ip, NFNC

LST: gybrn, f xln-sucr, blky-sbblky, w cons-hd, occ sd grs (mg, rndd), slty ip, rr calcit fld frac, tr cht (transl gybrn), NFNC

SS: rdbrn-rdorng, vf-ufg, ang-sbang, m srt, fri, lmy, argil ip, NFNC

TVD: 8630 ft



1671 FG

24 Sep 2010

CG

CG

CG

CG

TG (units)

C1 (PPM)

C2 (PPM)

C3 (PPM)

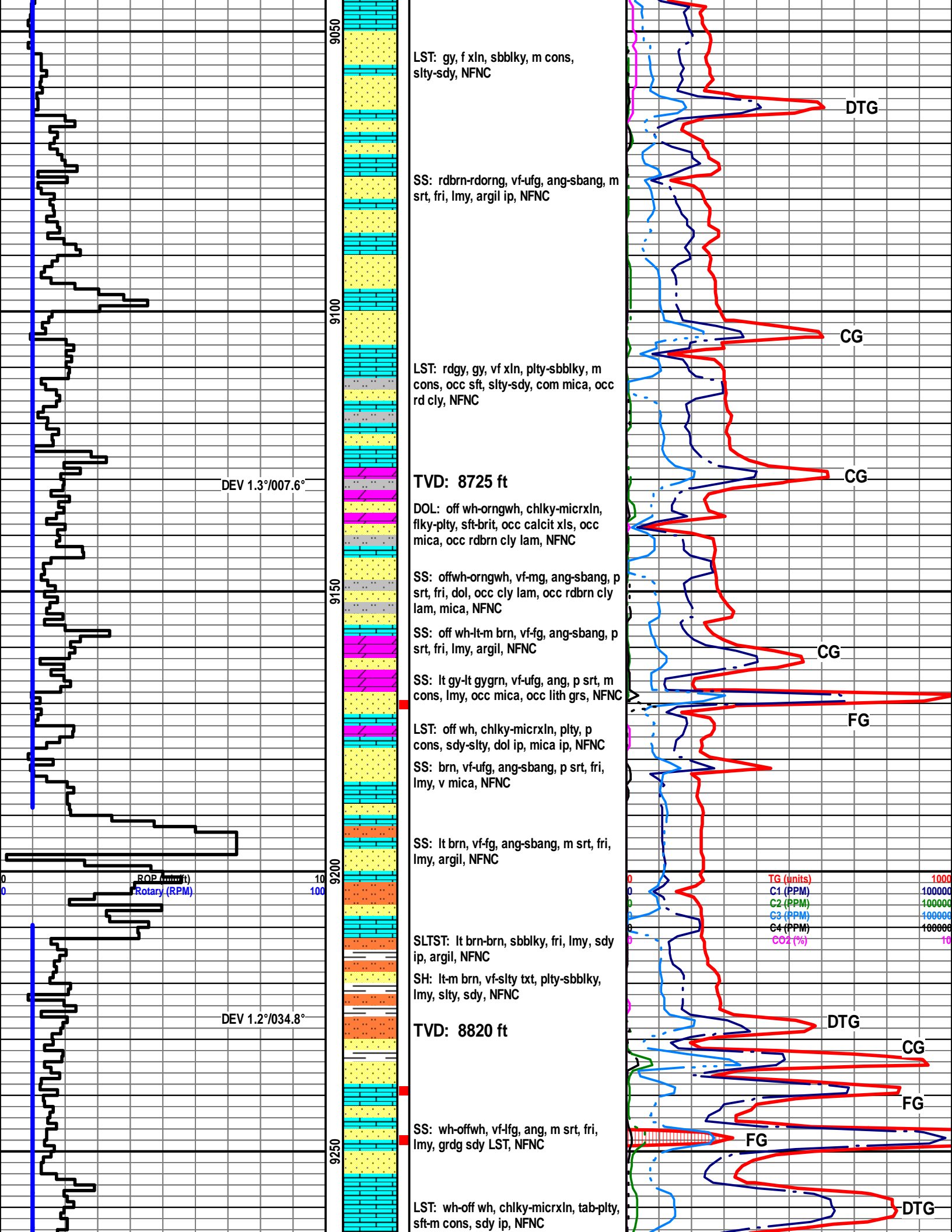
C4 (PPM)

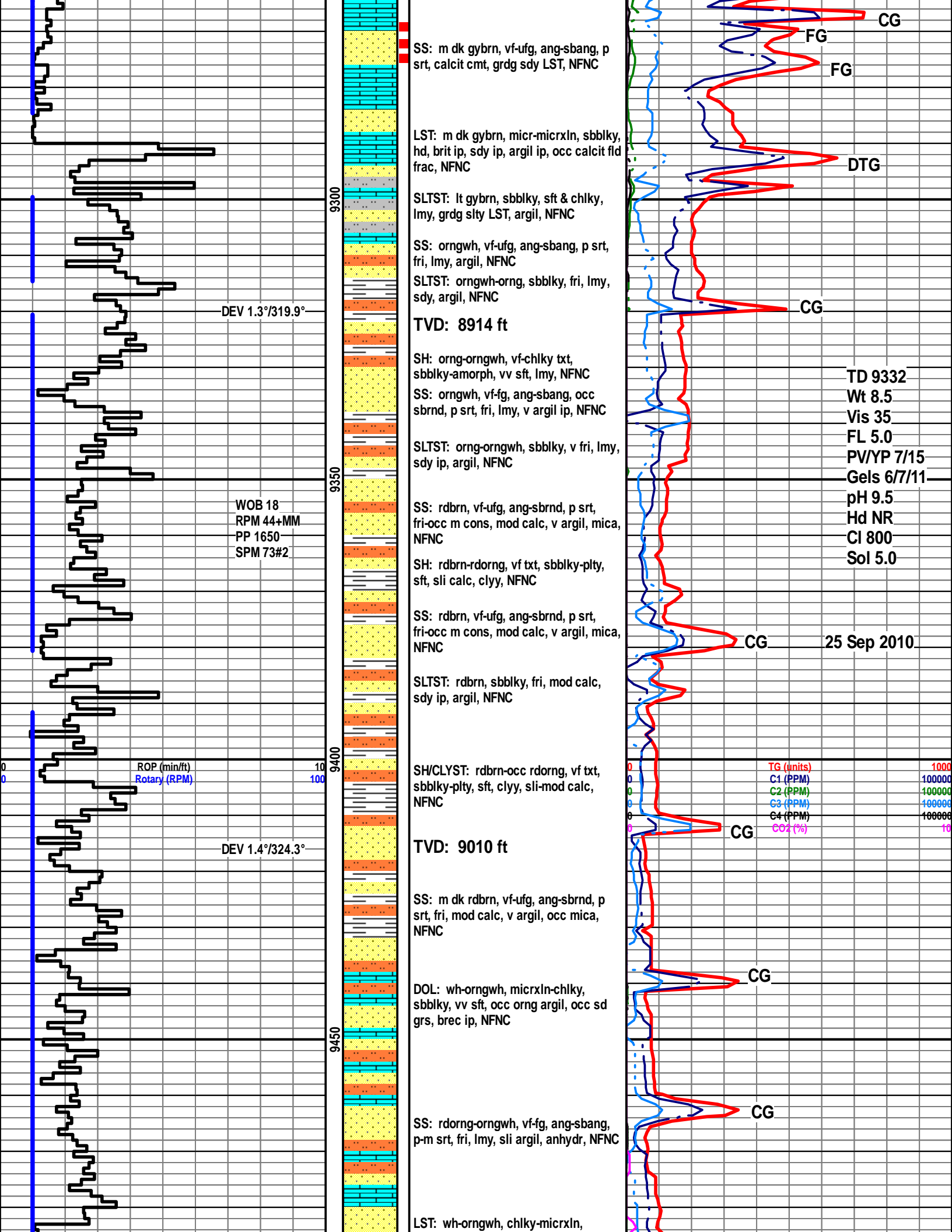
CO2 (%)

DTG

CG







SS: m dk gybrn, vf-ufg, ang-sbang, p srt, calcit cmt, grdg sdy LST, NFNC

LST: m dk gybrn, micr-micrxln, sbblky, hd, brit ip, sdy ip, argil ip, occ calcit fld frac, NFNC

SLTST: lt gybrn, sbblky, sft & chlky, lmy, grdg slty LST, argil, NFNC

SS: orngwh, vf-ufg, ang-sbang, p srt, fri, lmy, argil, NFNC

SLTST: orngwh-orng, sbblky, fri, lmy, sdy, argil, NFNC

TVD: 8914 ft

SH: orng-orngwh, vf-chlky txt, sbblky-amorph, vv sft, lmy, NFNC

SS: orngwh, vf-fg, ang-sbang, occ sbrnd, p srt, fri, lmy, v argil ip, NFNC

SLTST: orng-orngwh, sbblky, v fri, lmy, sdy ip, argil, NFNC

SS: rdbrn, vf-ufg, ang-sbrnd, p srt, fri-occ m cons, mod calc, v argil, mica, NFNC

SH: rdbrn-rdorng, vf txt, sbblky-plty, sft, sli calc, clyy, NFNC

SS: rdbrn, vf-ufg, ang-sbrnd, p srt, fri-occ m cons, mod calc, v argil, mica, NFNC

SLTST: rdbrn, sbblky, fri, mod calc, sdy ip, argil, NFNC

SH/CLYST: rdbrn-occ rdorng, vf txt, sbblky-plty, sft, clyy, sli-mod calc, NFNC

TVD: 9010 ft

SS: m dk rdbrn, vf-ufg, ang-sbrnd, p srt, fri, mod calc, v argil, occ mica, NFNC

DOL: wh-orngwh, micrxln-chlky, sbblky, vv sft, occ orng argil, occ sd grs, brec ip, NFNC

SS: rdorng-orngwh, vf-fg, ang-sbang, p-m srt, fri, lmy, sli argil, anhydr, NFNC

LST: wh-orngwh, chlky-micrxln,

CG

FG

FG

DTG

CG

TD 9332

Wt 8.5

Vis 35

FL 5.0

PV/YP 7/15

Gels 6/7/11

pH 9.5

Hd NR

CI 800

Sol 5.0

25 Sep 2010

TG (units)

C1 (PPM)

C2 (PPM)

C3 (PPM)

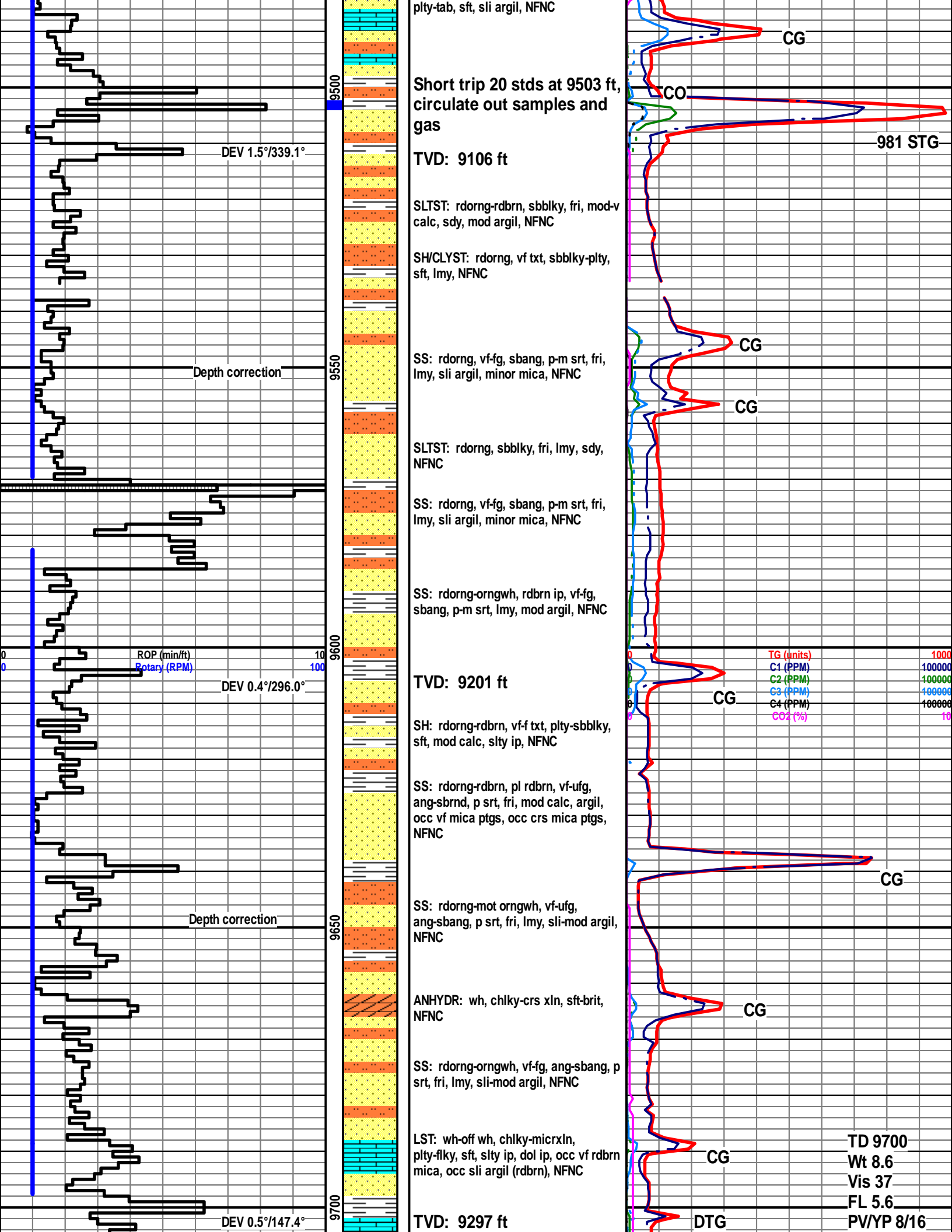
C4 (PPM)

CO2 (%)

CG

CG

CG



plty-tab, sft, sli argil, NFNC

Short trip 20 stds at 9503 ft,  
circulate out samples and  
gas

TVD: 9106 ft

SLTST: rdorng-rdbnr, sbblky, fri, mod-v  
calc, sdy, mod argil, NFNC

SH/CLYST: rdorng, vf txt, sbblky-plty,  
sft, lmy, NFNC

SS: rdorng, vf-fg, sbang, p-m srt, fri,  
lmy, sli argil, minor mica, NFNC

SLTST: rdorng, sbblky, fri, lmy, sdy,  
NFNC

SS: rdorng, vf-fg, sbang, p-m srt, fri,  
lmy, sli argil, minor mica, NFNC

SS: rdorng-orngwh, rdbnr ip, vf-fg,  
sbang, p-m srt, lmy, mod argil, NFNC

TVD: 9201 ft

SH: rdorng-rdbnr, vf-f txt, plty-sbblky,  
sft, mod calc, slty ip, NFNC

SS: rdorng-rdbnr, pl rdbnr, vf-ufg,  
ang-sbrnd, p srt, fri, mod calc, argil,  
occ vf mica ptgs, occ crs mica ptgs,  
NFNC

SS: rdorng-mot orngwh, vf-ufg,  
ang-sbang, p srt, fri, lmy, sli-mod argil,  
NFNC

ANHYDR: wh, chlky-crs xln, sft-brit,  
NFNC

SS: rdorng-orngwh, vf-fg, ang-sbang, p  
srt, fri, lmy, sli-mod argil, NFNC

LST: wh-off wh, chlky-micrxln,  
plty-flky, sft, slty ip, dol ip, occ vf rdbnr  
mica, occ sli argil (rdbnr), NFNC

TVD: 9297 ft

CG

CO

981 STG

CG

CG

CG

CG

CG

CG

DTG

TD 9700

Wt 8.6

Vis 37

FL 5.6

PV/YP 8/16

Gels 8/15/17

pH 9.0

Hd 80

Cl 800

Sol 2.0

26 Sep 2010

WOB 15  
RPM 44+MM  
PP 1700  
SPM 70#1

ROP (min/ft)  
Rotary (RPM)

DEV 0.6°/336.7°

DEV 1.2°/004.2°

9750  
9800  
9850  
9900

LST: wh-off wh, chlky-micrxln,  
plty-flky, sft, slty ip, NFNC

SH: lt gybrn, chlky-f txt, plty, v sft, lmy,  
grdg argil LST, NFNC

LST: gy-lt gybrn, chlky-crs xln, v  
sft-hd, tab-sbblky, sli argil, NFNC

SLTST: rdbrn, occ pl rdbrn, sbblky,  
fri-m cons, mod calc, sdy, argil, vf  
mica, NFNC

SS: rdbrn, vf-ufg, ang-sbang, p srt, fri,  
v calc, mica, argil, NFNC

SH: rdbrn-m dk rdbrn, vf-slty txt, m  
frm, mod calc, slty ip, NFNC

SS: orng-orngwh, vf-fg, sbang, m srt,  
fri, lmy, argil, NFNC

TVD: 9393 ft

LST: wh-orngwh, chlky-micrxln,

DOL: wh-orngwh, occ rdbrn lam/vns,  
micrxln, plty, brit, sdy ip, NFNC

SLTST: rdbrn, sbblky, fri, mod calc,  
sdv, argil, NFNC

SH: orngwh-rdorng, vf-chlky txt,  
amorph-sbblky, vv sft, lmy, NFNC

SS: orng-orngwh, vf-fg, ang-sbang, p-m  
srt, fri, lmy, sli argil, NFNC

LST: wh-off wh, micrxln, flky, brit, sli  
sdv, NFNC

TVD: 9488 ft

SH: rdbrn-rdorng, vf txt, sbblky, m frm,  
sli calc, NFNC

SLTST: rdbrn, sbblky, fri-m cons, mod  
calc, sdy ip, argil, NFNC

CG

DTG

CG

TG (units)  
C1 (PPM)  
C2 (PPM)  
C3 (PPM)  
C4 (PPM)  
CO2 (%)

CG

CG

CG

DTG

CG

1000  
100000  
1000000  
10000000  
100000000  
1000000000  
10000000000

