

# BLANCO

## Geological Services LLC

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

Well Name: Winters 8-33-1  
Location: Sec.08, T32S,R63W Las Animas County, CO  
Licence Number: 05-071-09461-00 Region: Wildcat  
Spud Date: 01/24/2008 Drilling Completed: 02/13/08  
Surface Coordinates: 2475' FSL & 2226' FEL

### Bottom Hole Coordinates:

Ground Elevation (ft): K.B. Elevation (ft):  
Logged Interval (ft): 530' To: 5000 Total Depth (ft): 5000  
Formation: Pierre, Dakota, Morrison, Chinle, Glorieta, Sangre DeCristo  
Type of Drilling Fluid: mud/Gel

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

### OPERATOR

Company: OWTS (USA), Inc.  
Address: P.O. Box 265 85  
CY-1640  
Nicosia Cyprus

### GEOLOGIST

Name: Leonardo Carrasco.  
Company: Blanco Geological Services L.L.C.  
Address: 806 Robinson Avenue  
Trinidad, CO 81082  
719-846-3364

### General

Excell Rig #36

Lat: 39.xxxxx N  
Long: 108.xxxxx W

Lease # xxxxxx

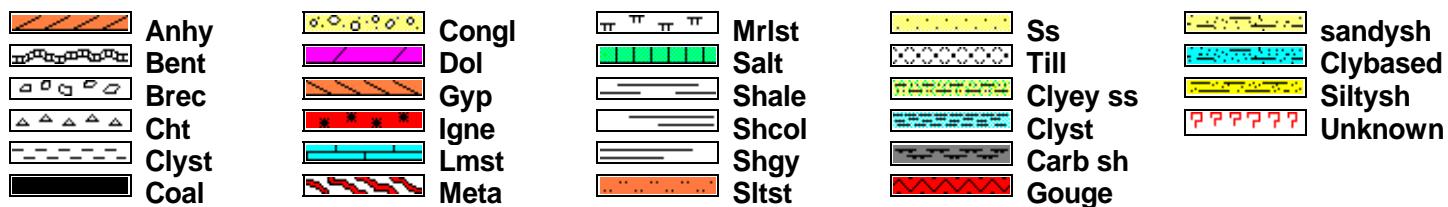
### Equipment

Mudlogging Systems, Inc.  
Model TGC Gas Detector and Chromatograph  
Serial # ML 303

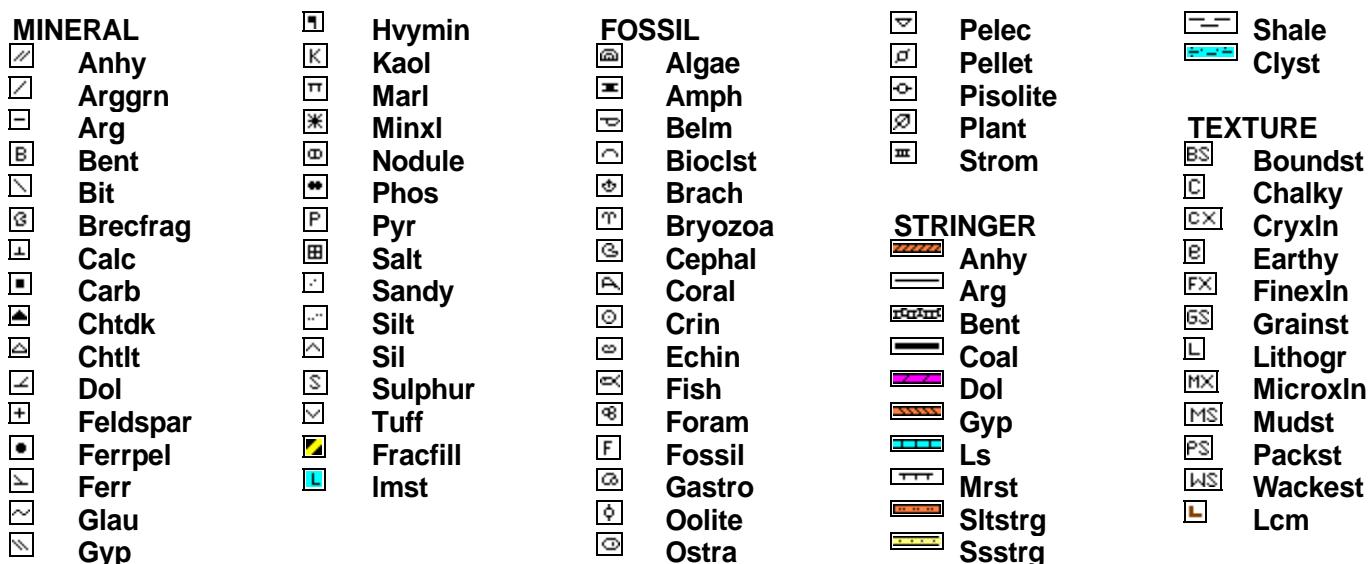
## Casing

8 5/8" @ 517'

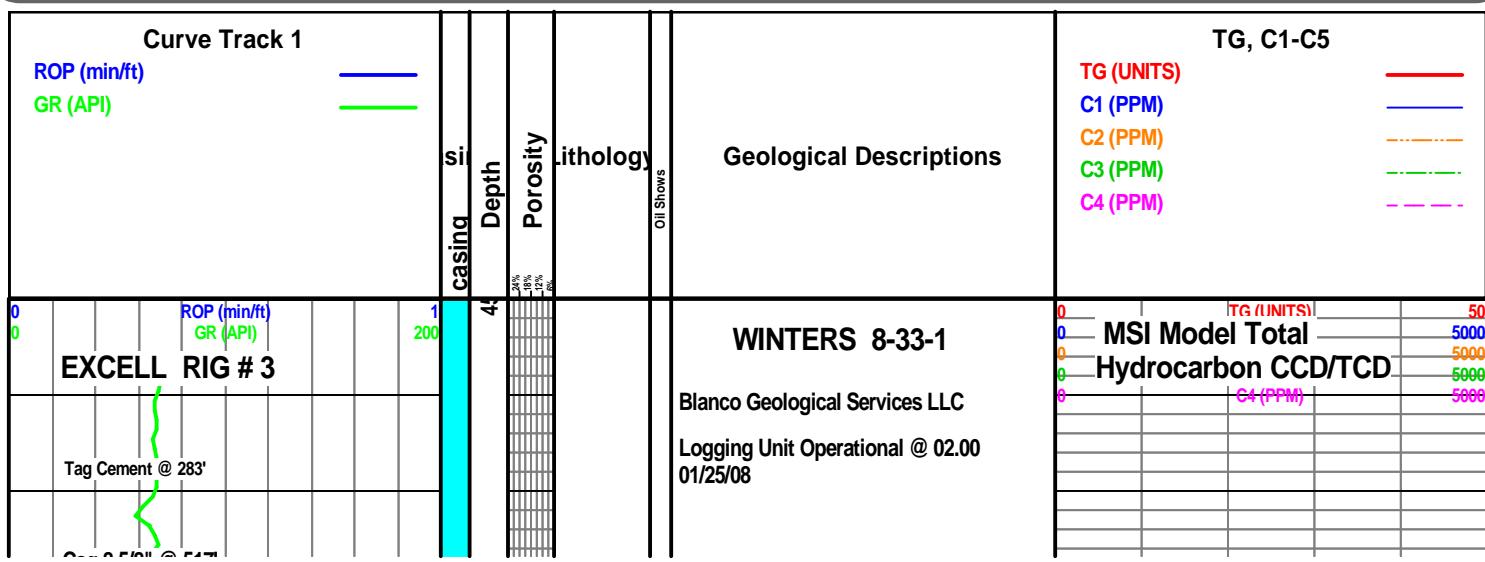
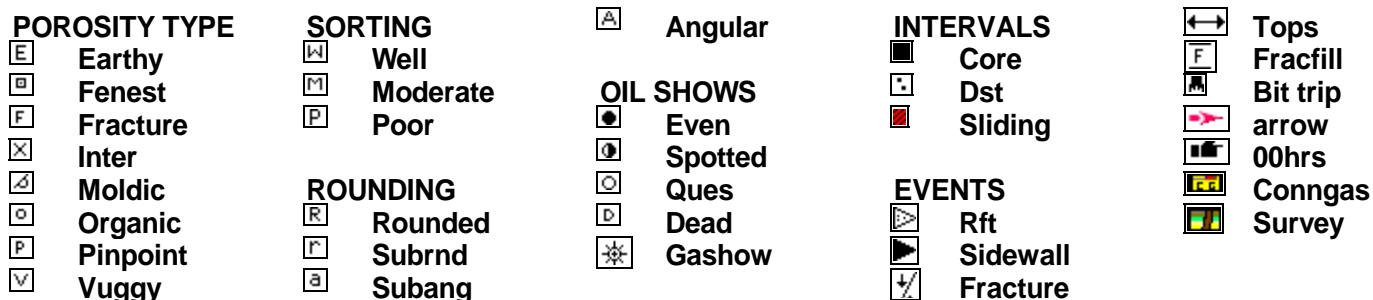
# ROCK TYPES



ACCESSORIES



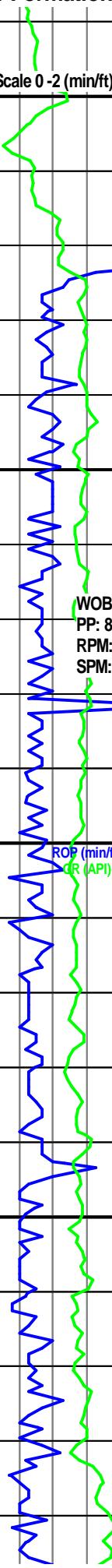
## OTHER SYMBOLS



Csg 8 5/8" @ 517'

17:35 01/25/08 Drilling  
New Formation from 523'

ROP Scale 0 -2 (min/ft)



0 0 ROP (min/ft)  
0 1 DR (API) 200

Bit # 2 PDC  
Size: 7.875  
Type: RMBM568  
IN: 522'

TG Scale 0 - 50.0 Units

1.0 Unit = 100.0 ppm TG

500

600

650

700

Catching 30' lagged samples

Cement: v ltgy, dul, strong rxn in HCl.

SH: m-dk gy, firm-hd, blk-sbbblk plty, sl calc.

SH: It-m gy, mod firm, blk-sbbblk plty, vcalc.

SH: It-m gy, mod firm, blk-sbbblk plty, vcalc.

SH: It-m gy, mod firm, blk-sbbblk plty, vcalc.

TG (UNITS) 50  
C1 (PPM) 5000  
C2 (PPM) 5000  
C3 (PPM) 5000  
C4 (PPM) 5000

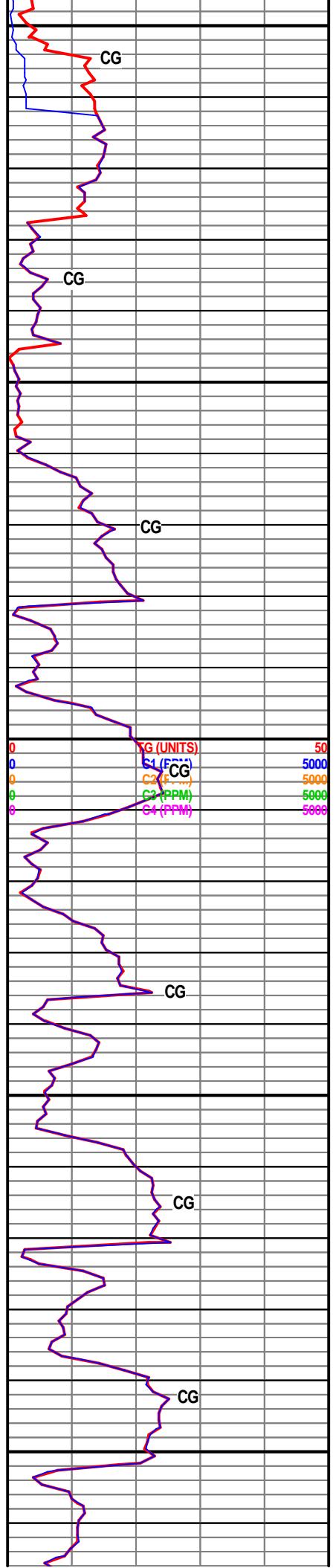
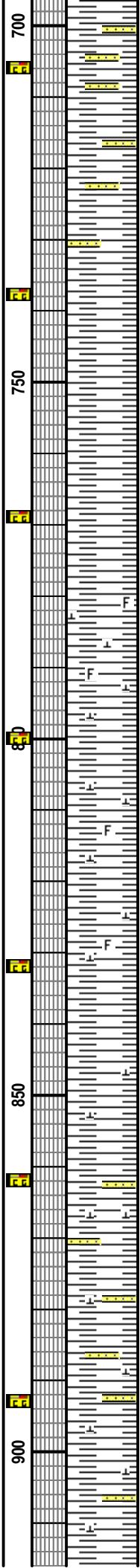
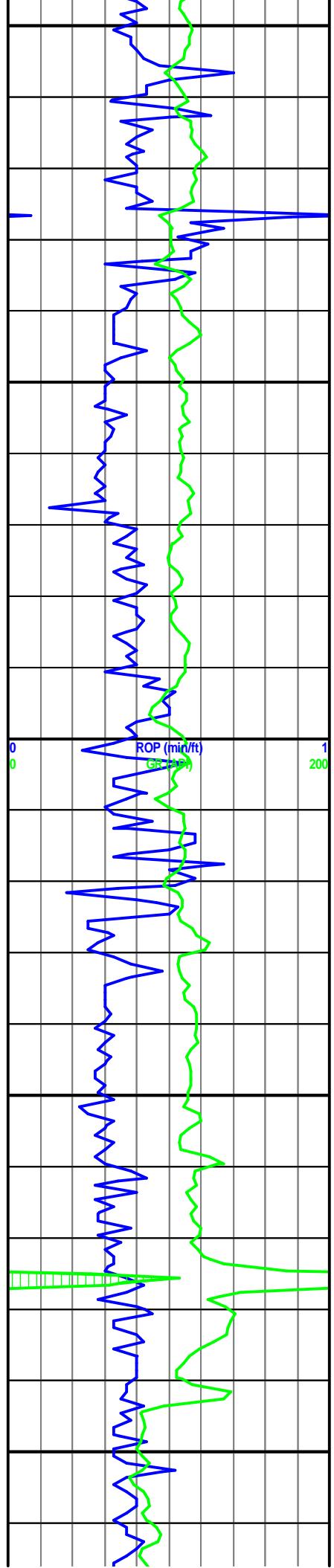
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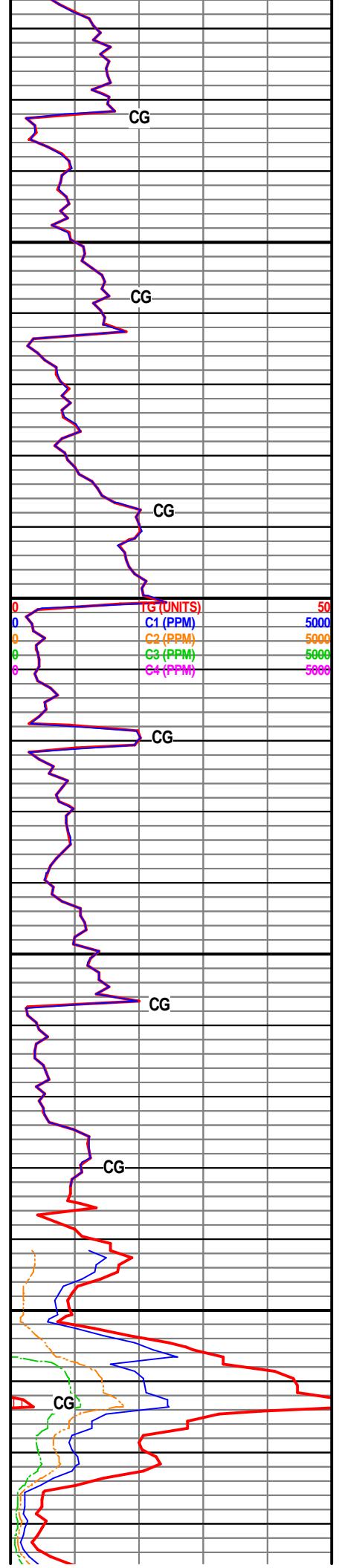
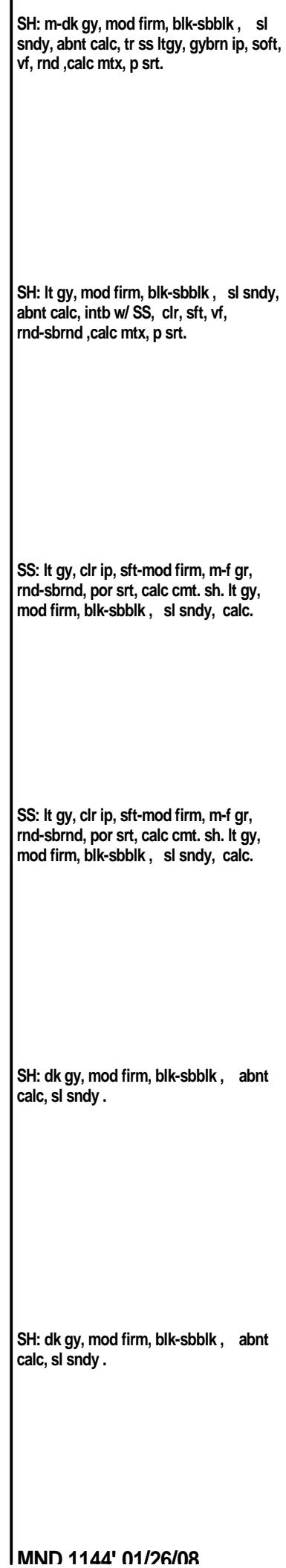
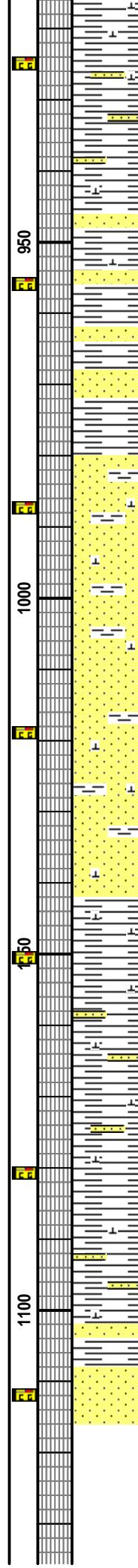
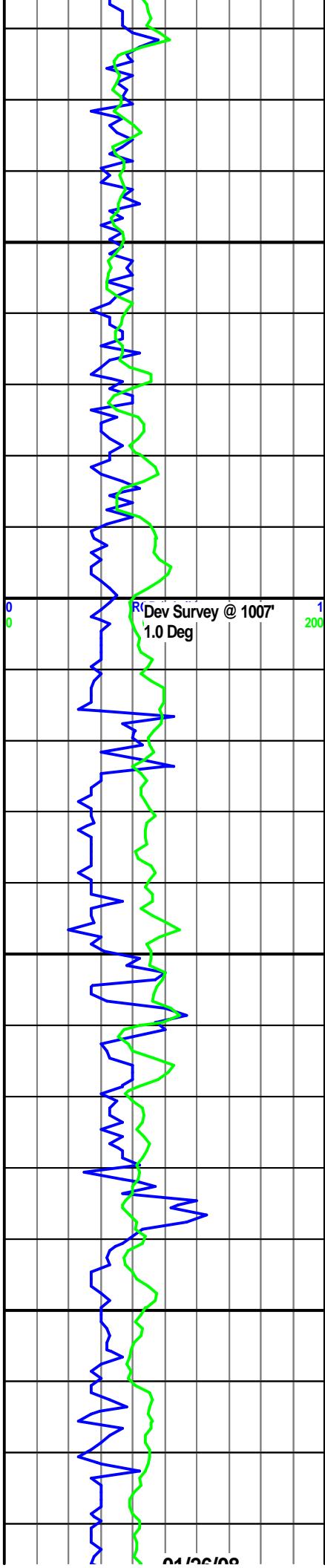
CG

CG

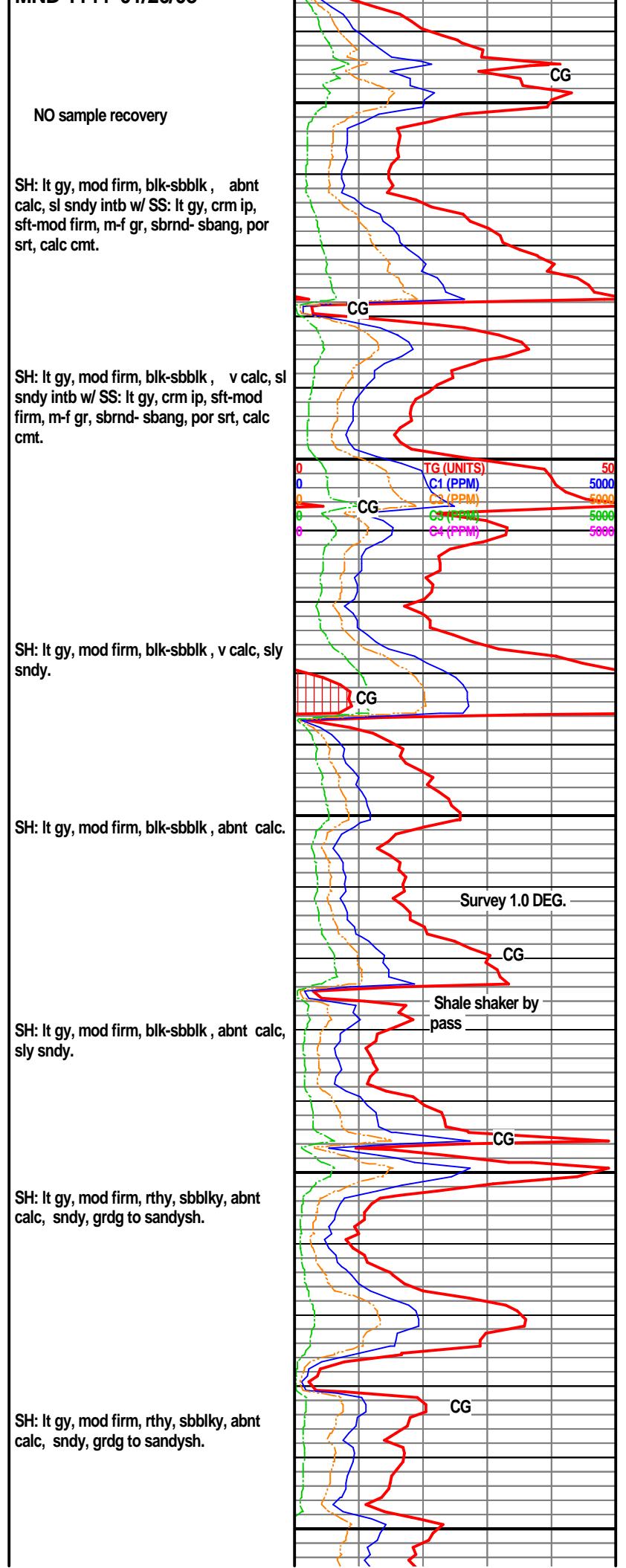
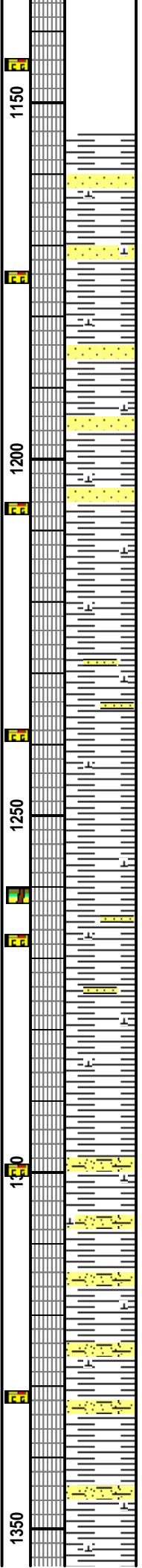
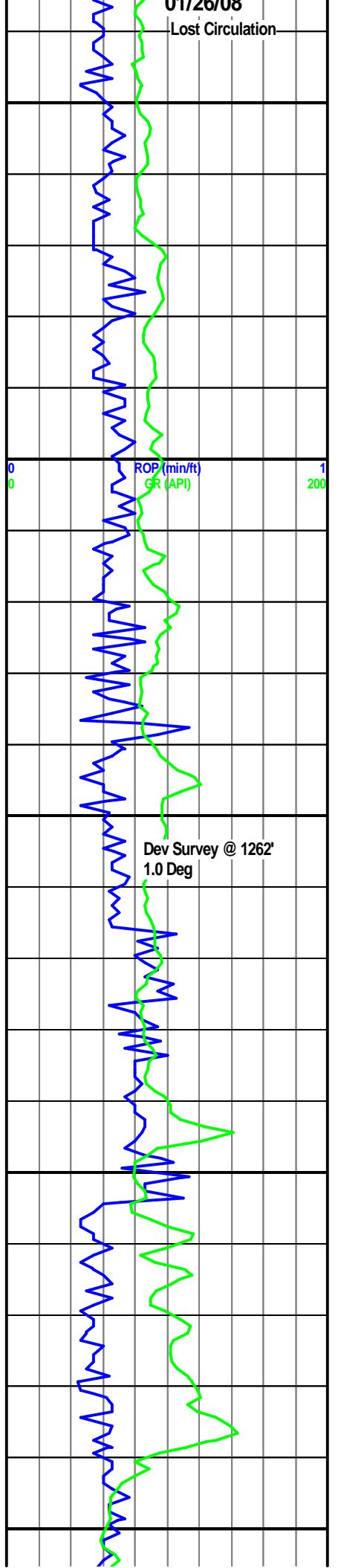
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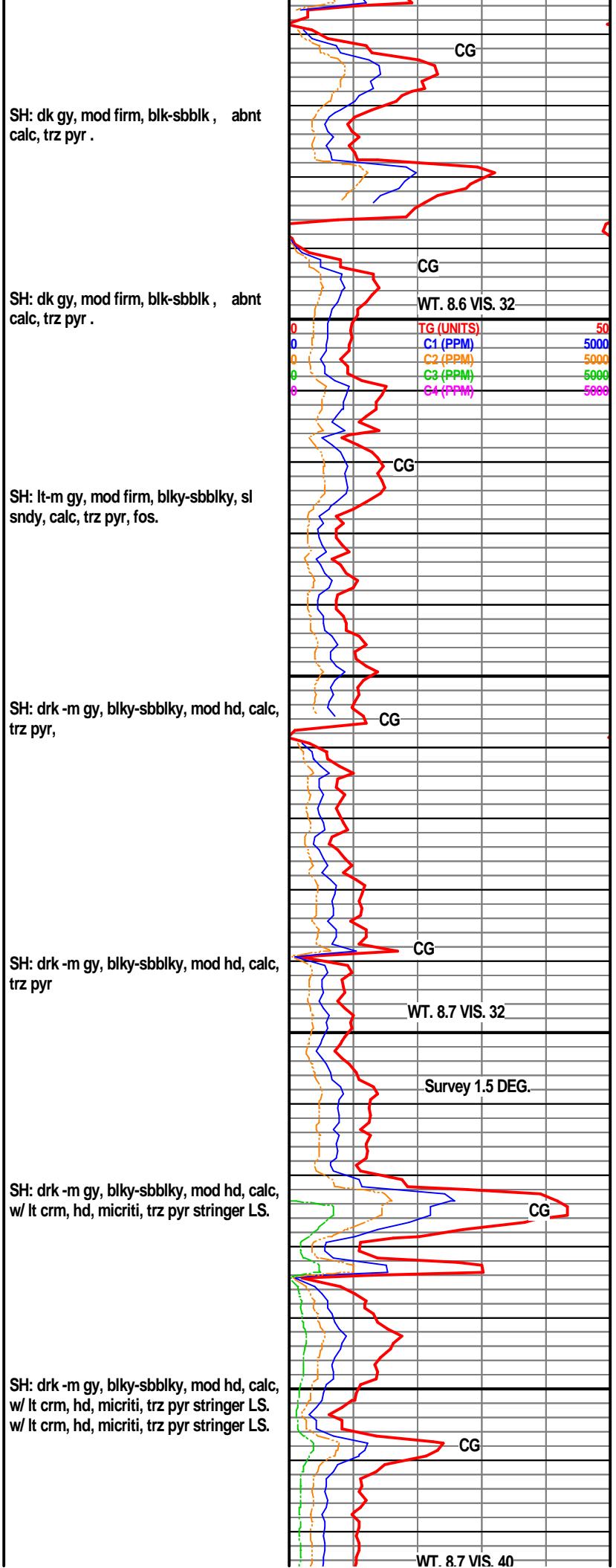
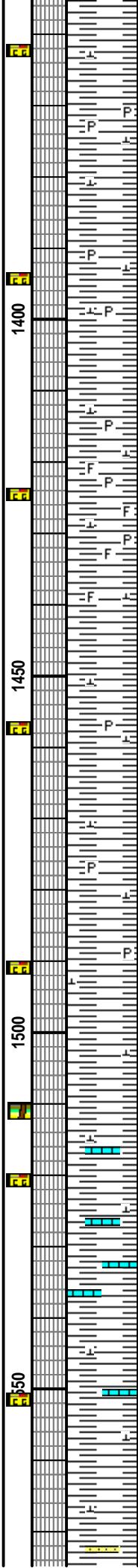
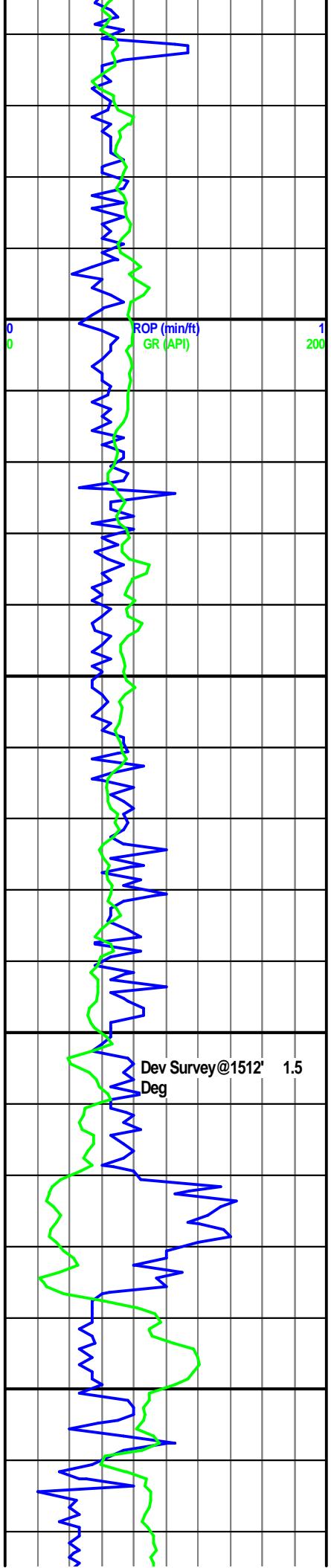
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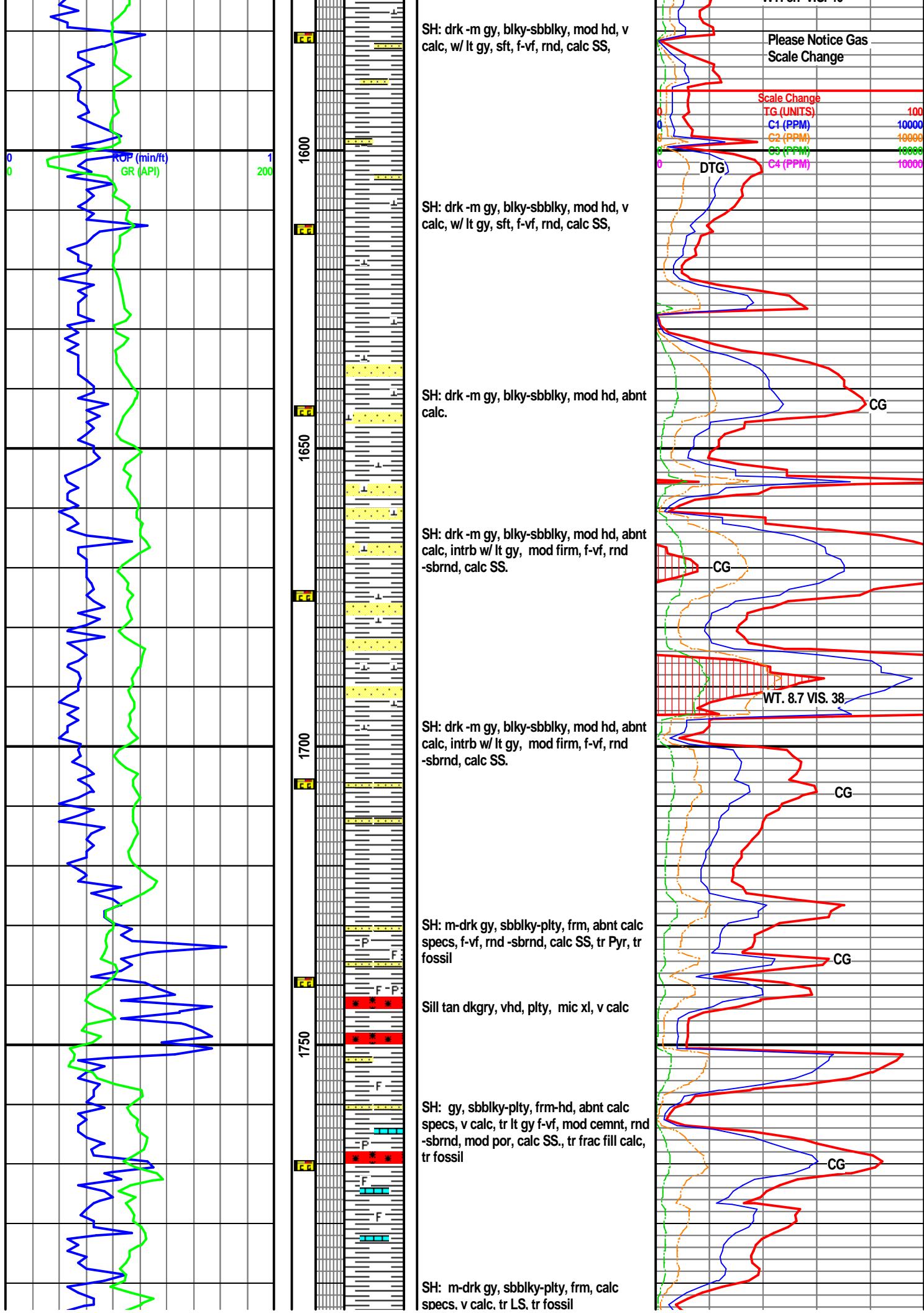


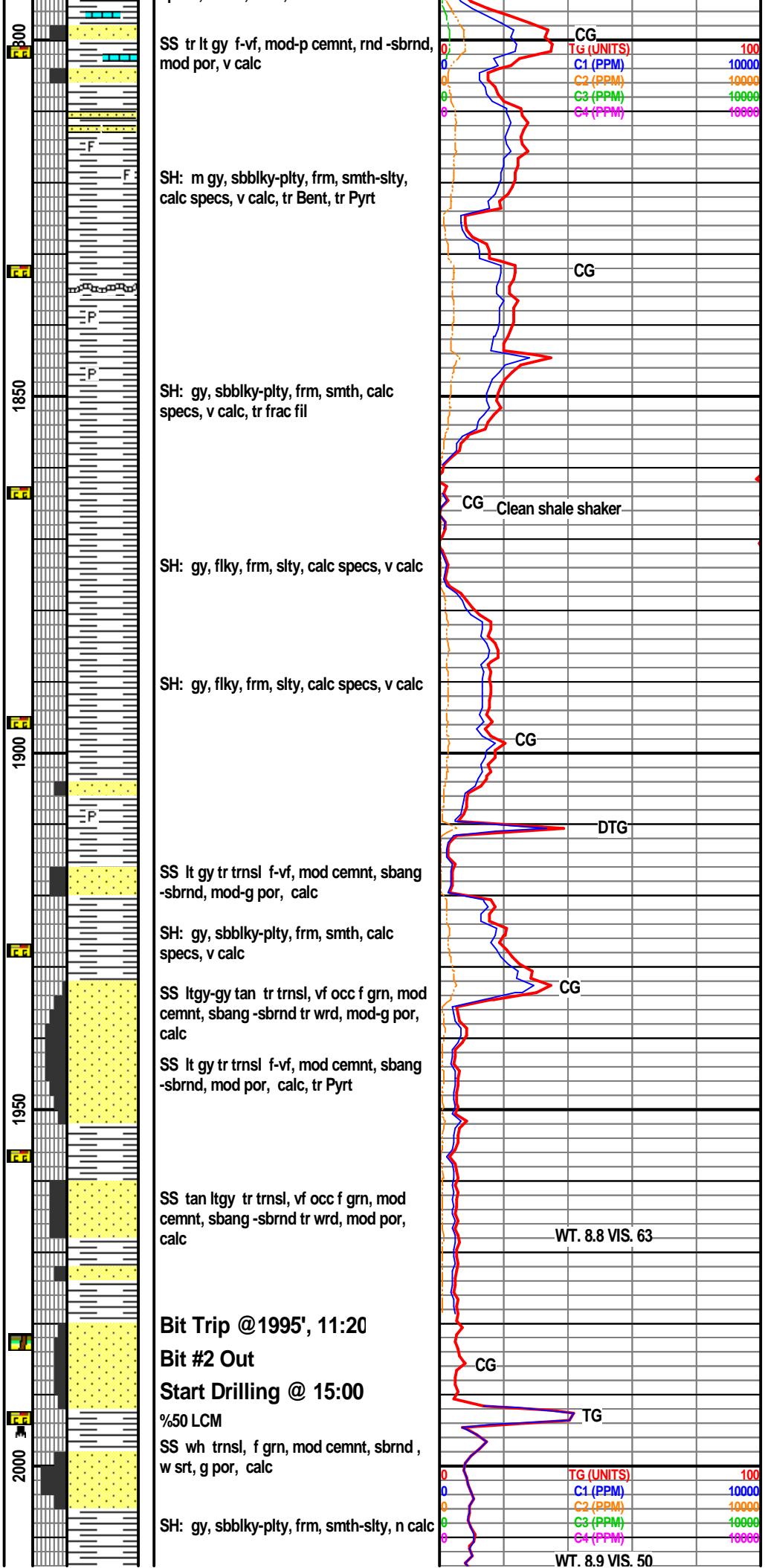
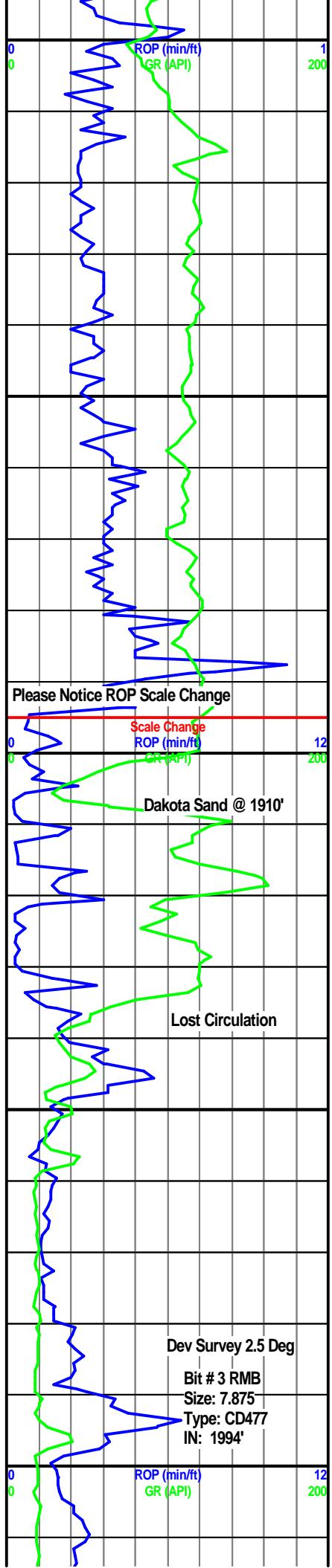


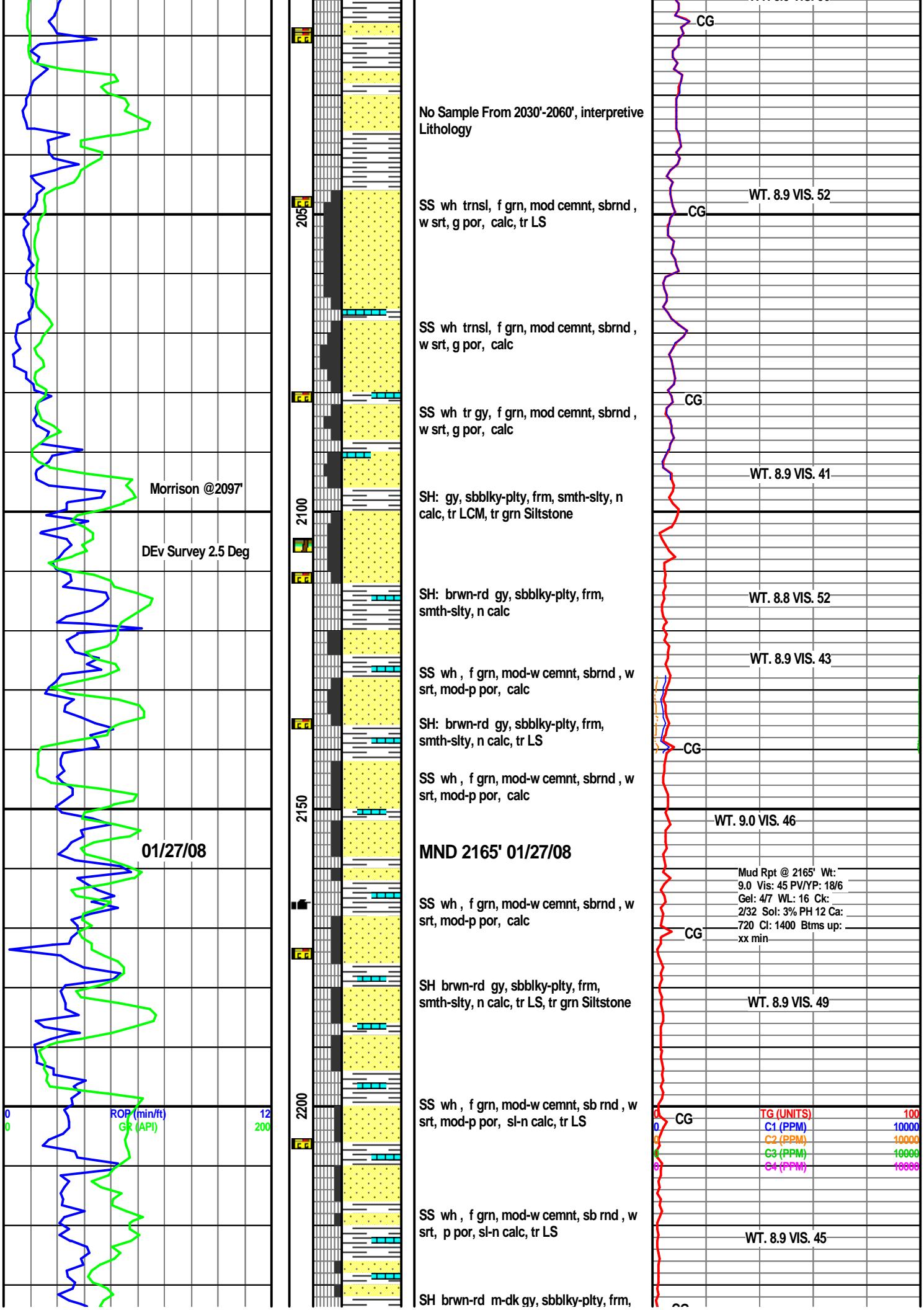
MND 1144' 01/26/08

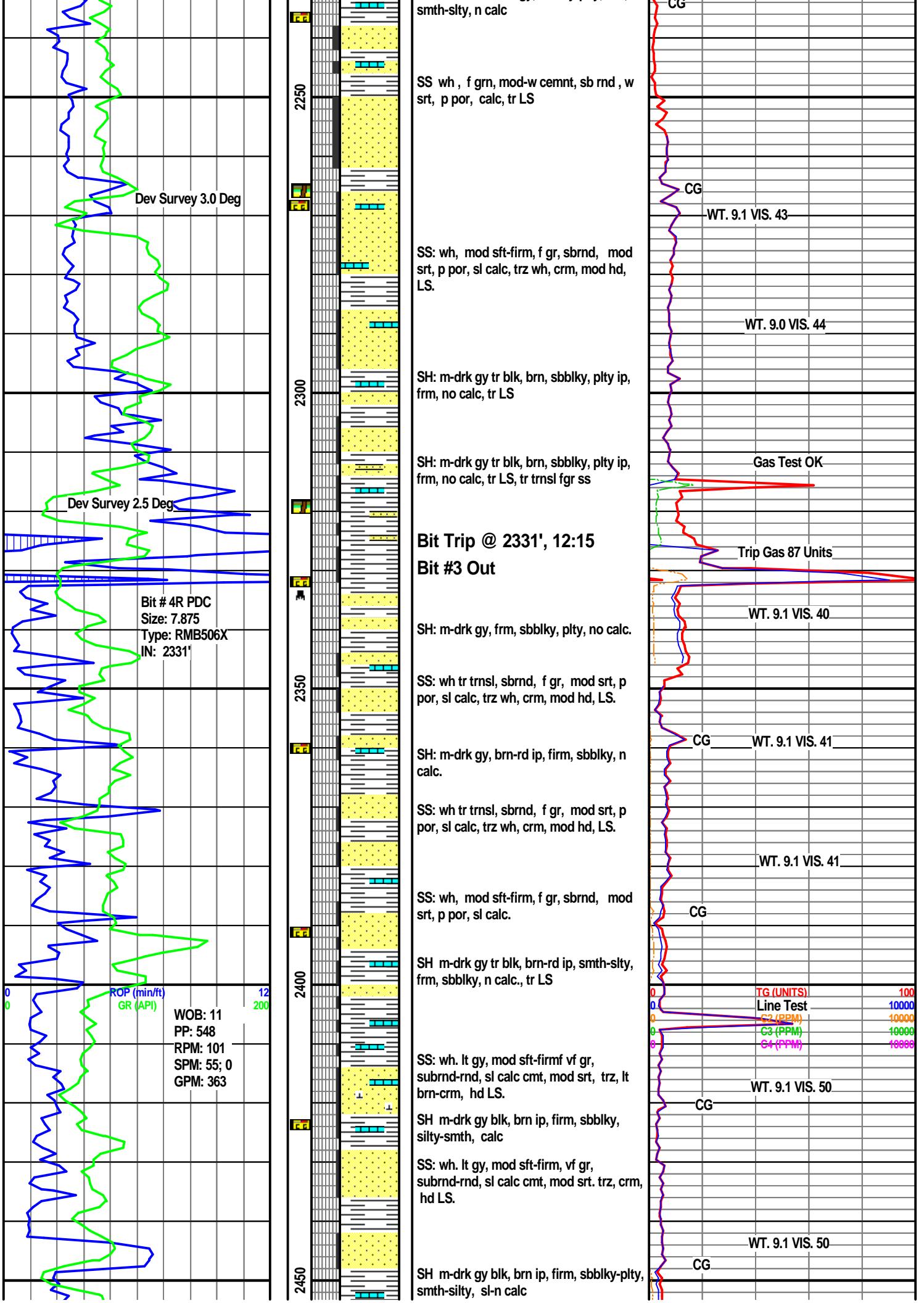


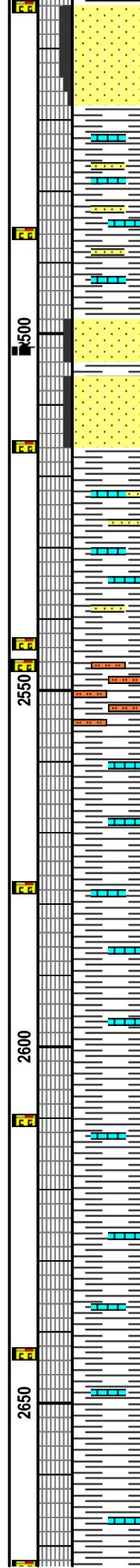
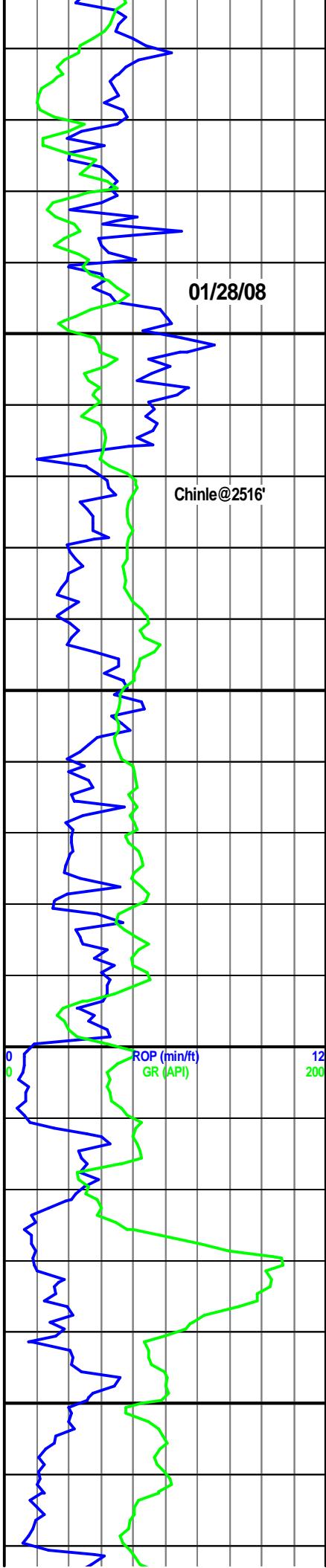












SS: wh lt gy, vf gr, subrnd-rnd, sl calc cmt, mod srt, p-mod por, trz, crm, hd LS.

SH m-drk gy blk rd, firm, sbblkly-plty, smth-silty, sl-n calc, tr ss, tr LS

WT. 9.1 VIS. 52

CG

MND 2501' 01/28/08

SS It gy tr wh, vf gr, subrnd-rnd, sl calc cmt, mod srt, p por, trz crm hd LS.

CG

WT. 9.1 VIS. 44

SH m-drk gy blk rd, frm, sbblkly-plty, smth-silty, sl-n calc, tr LS

CG

WT. 9.1 VIS. 48

SH m-drk gy blk rd, frm, sbblkly-plty, smth-silty, sl-n calc, tr LS

CG

WT. 9.1 VIS. 43

SH m-drk gy blk rd, frm, sbblkly-plty, smth-silty, sl-n calc, tr LS

CG

WT. 9.2 VIS. 48

SH drk gy blk, frm, sbblkly-plty, smth, sl-n calc, tr LS

TG (UNITS)	100
C1 (PPM)	10000
C2 (PPM)	10000
C3 (PPM)	10000
C4 (PPM)	10000

SH rd, frm, sbblkly-plty, silty-sndy, calc, tr ss, tr LS.

CG

WOB ~13.4

PP ~622

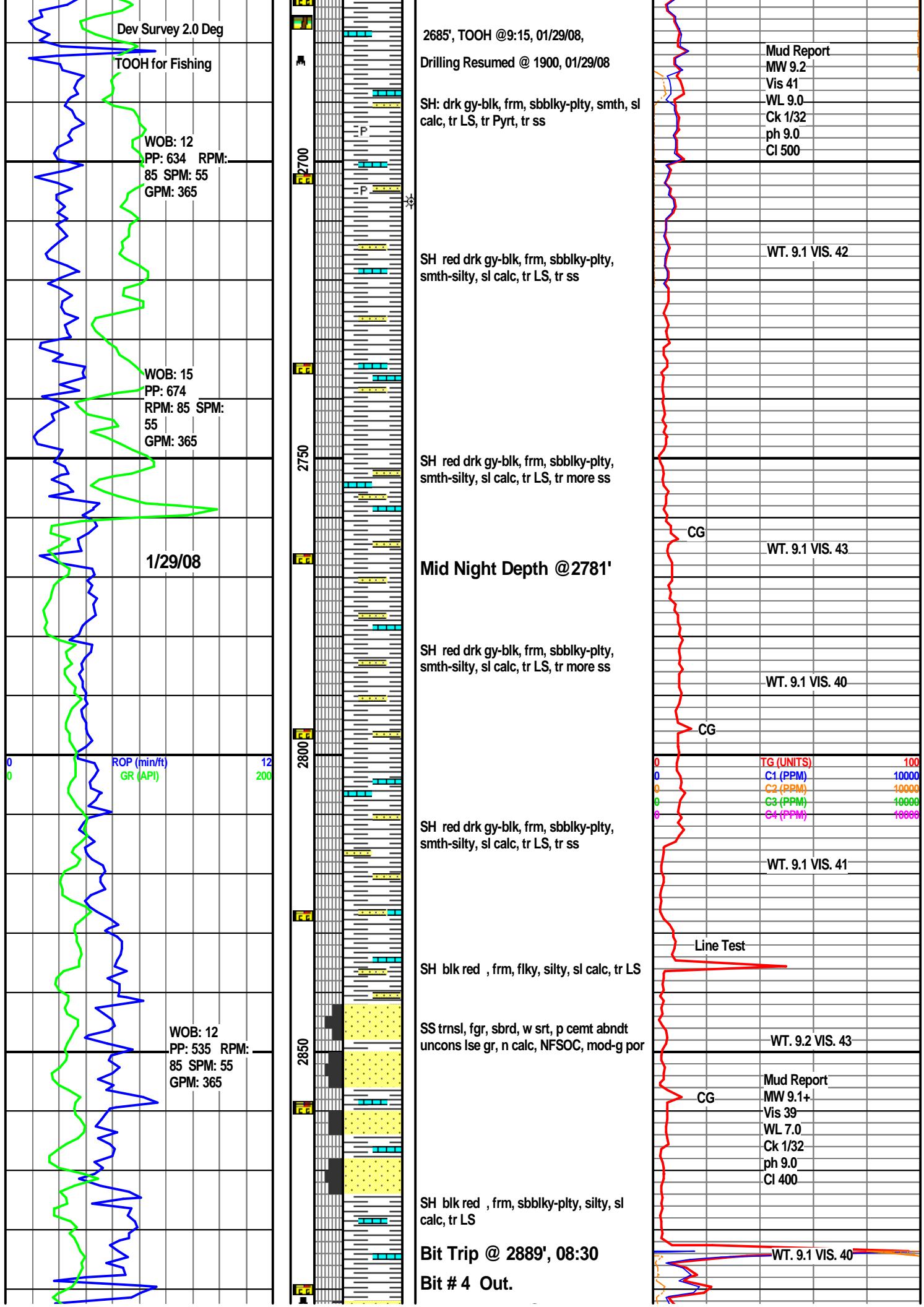
RPM ~93

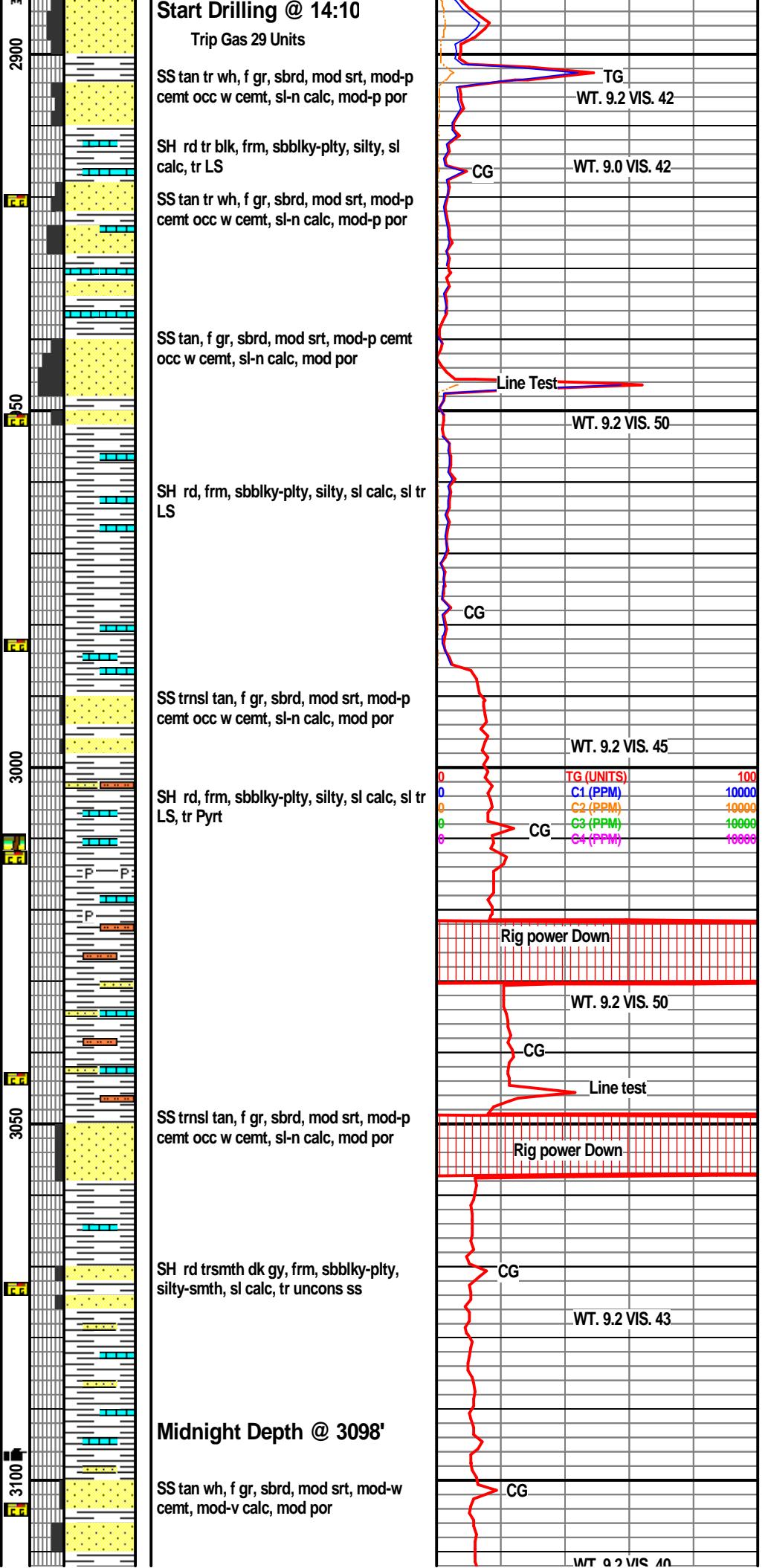
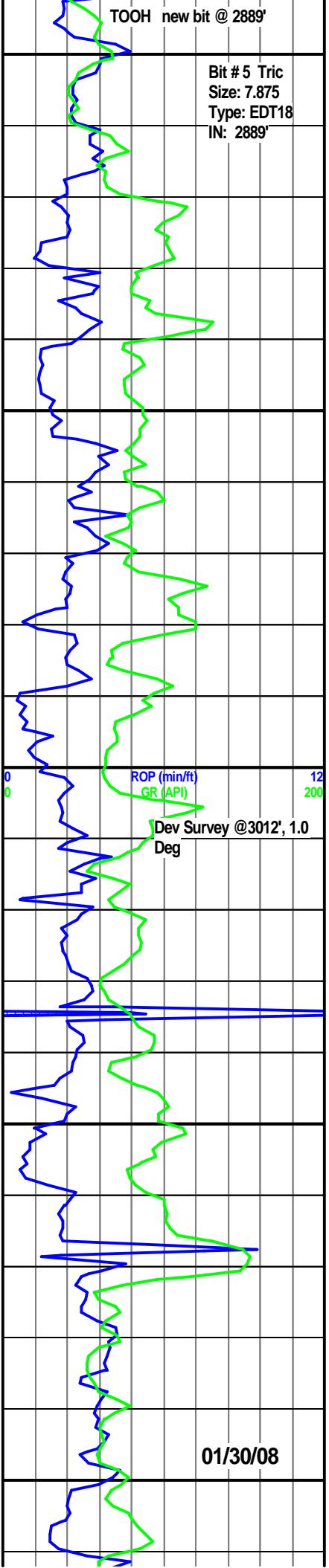
SPM ~55

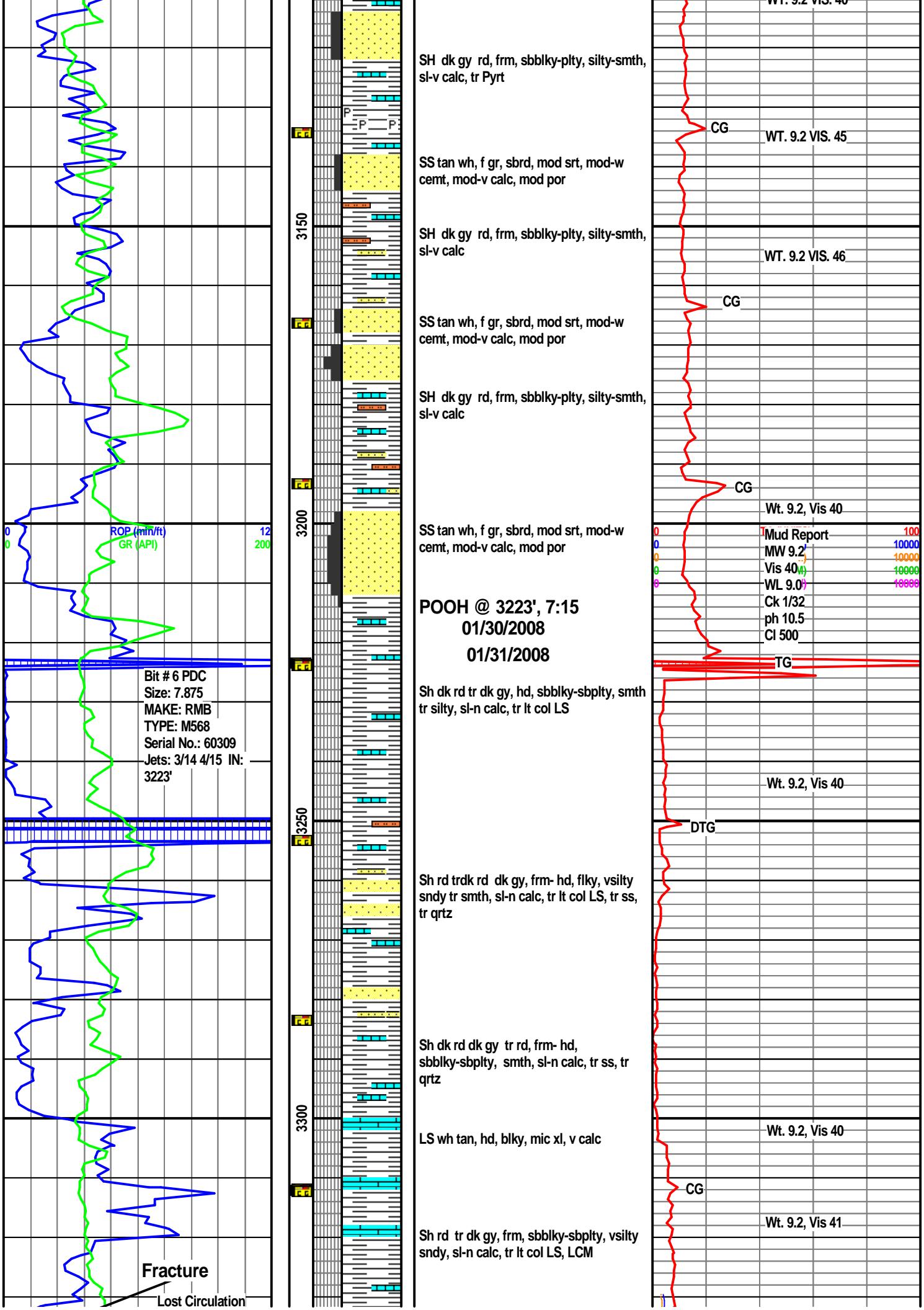
WT. 9.1 VIS. 41

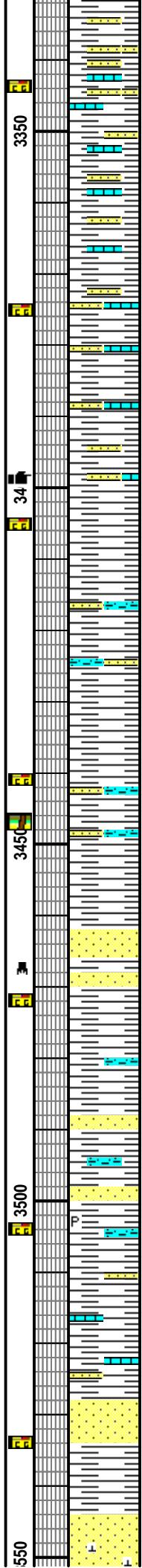
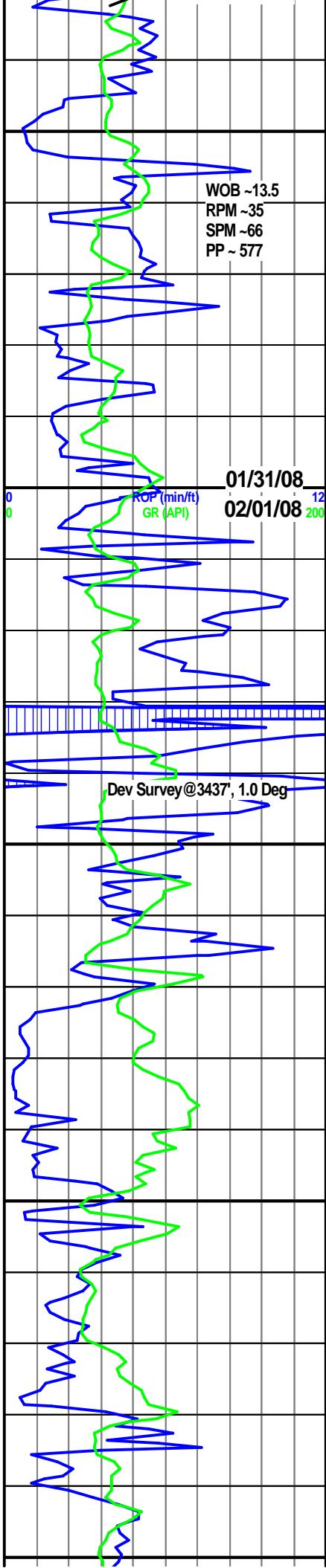
CG

Line Test









Sh rd tr dk gy, frm, sbblkly-sbplty, vsilty, sndy, sl-n calc, tr lt col LS

Sh rd tr dk gy, frm, sbblkly-sbplty, vsilty, sndy, sl-n calc, tr lt col LS

Midnight Depth @ 3399'

	TG (UNITS)
C1 (PPM)	100
C2 (PPM)	10000
C3 (PPM)	10000
C4 (PPM)	10000

POOH@3437'  
BIT # 6 out

Bit#7  
Size: 7.875  
MAKE: RMB  
TYPE: M568  
Serial No.: 60309  
2/14 1/18

02/01/2008  
Drilling resumed@4:15

Jets;  
IN: 3437'

POOH@3466'  
BIT #7 out

Bit# 6RR  
Size: 7.875  
MAKE: RMB  
TYPE: M657X  
Serial No.: 60309  
3/14 4/15

Jets;  
IN: 3466'

Gas Test

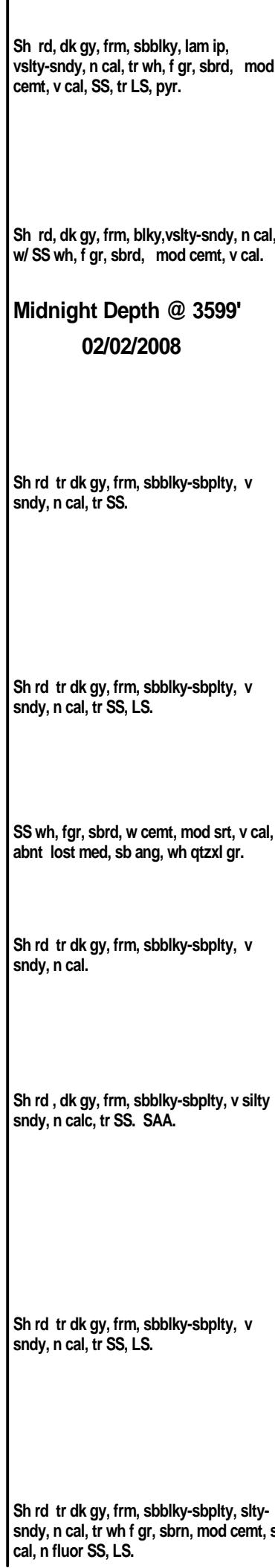
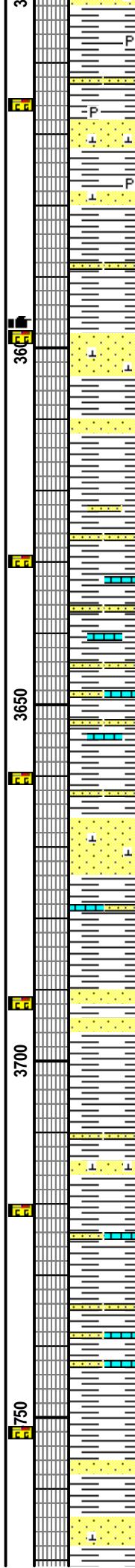
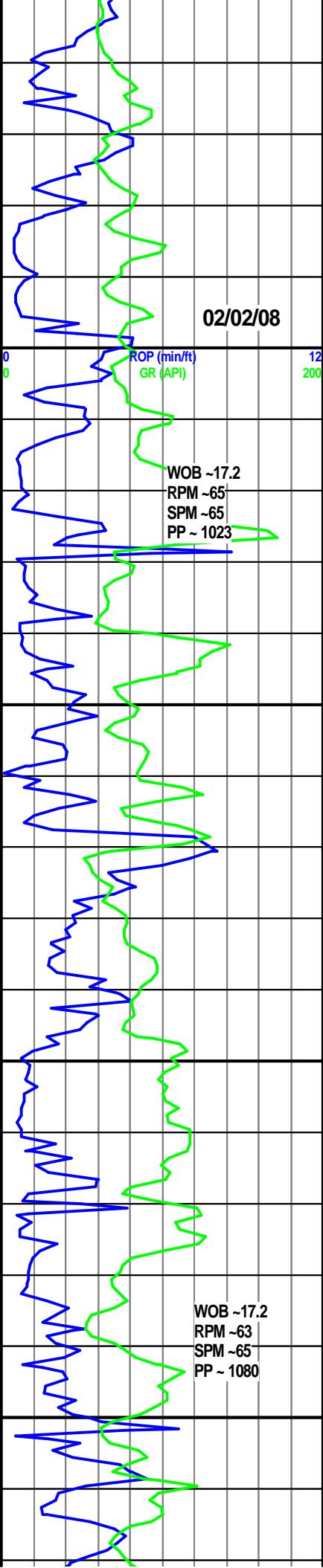
Gas Test

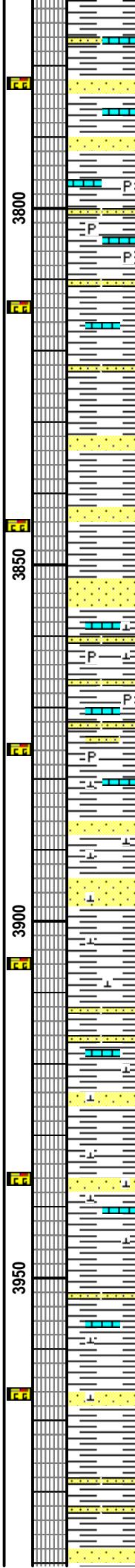
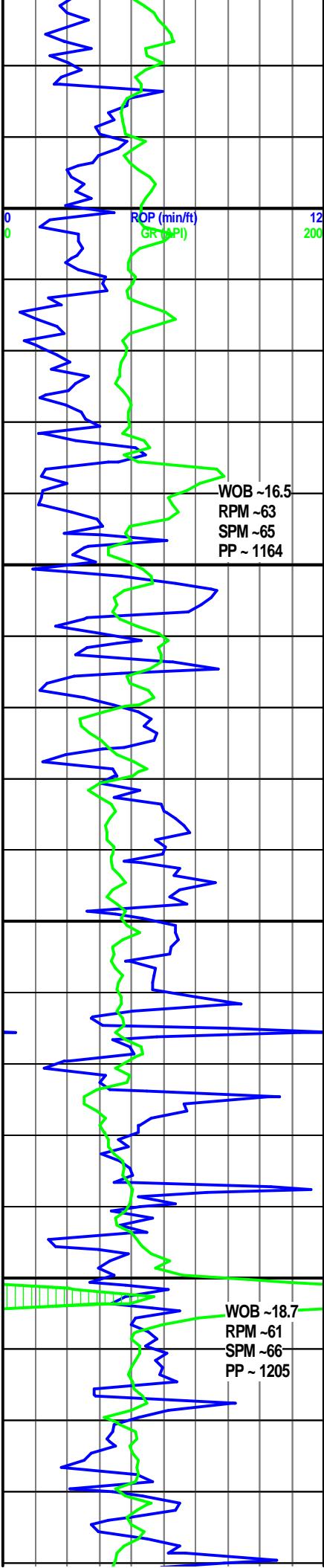
Sh rd, dk gy, frm, sbblkly-sbplty, vsilty, sndy ip, n cal, tr LS, tr SS tan wh SAA,

SS wh, f-m gr, sbrd, mod srt, mod cemt,  
sl cal, fluor brigh yel,pin pt, abnt lost  
med, sb ang, qtzxl gr.

Wt. 9.0 Vis 45

CG





Sh rd tr dk gy, frm, sbblky-sbplty, silty- v  
sndy, n cal, min fluor, tr SS, LS , pyr,  
abnt LCM.

## Gas Test

## Gas Test

TG (UNITS)

TG (UNITS)	100
C1 (PPM)	10000
C2 (PPM)	10000
C3 (PPM)	10000
C4 (PPM)	10000

Wt. 9.2 Vis 46

Sh rd tr dk gy, frm, sbblky-sbplty, silty- v  
sndy, n cal, tr SS, LS , abnt LCM.

## Gas Test F/ bottom of agitator

CG

Wt. 9.2 Vis 44

sndy, cal, tr SS, LS , pyr.

Wt. 9.2 Vis 47

**Sh dk gy, rd, frm, sbblky-sbplty, silty- v  
sndy, cal, yel mnrl flr, tr SS, LS .**

**Sh dk gy, rd, frm, sbblky-sbplty, silty- v  
sndy, cal, tr SS, LS .**

Wt. 9.2 Vis 41

**Sh dk gy rd , frm, sbblkly-sbplty, v sndy,  
v cal. tr SS. L S. TR vel mnrl flr.**

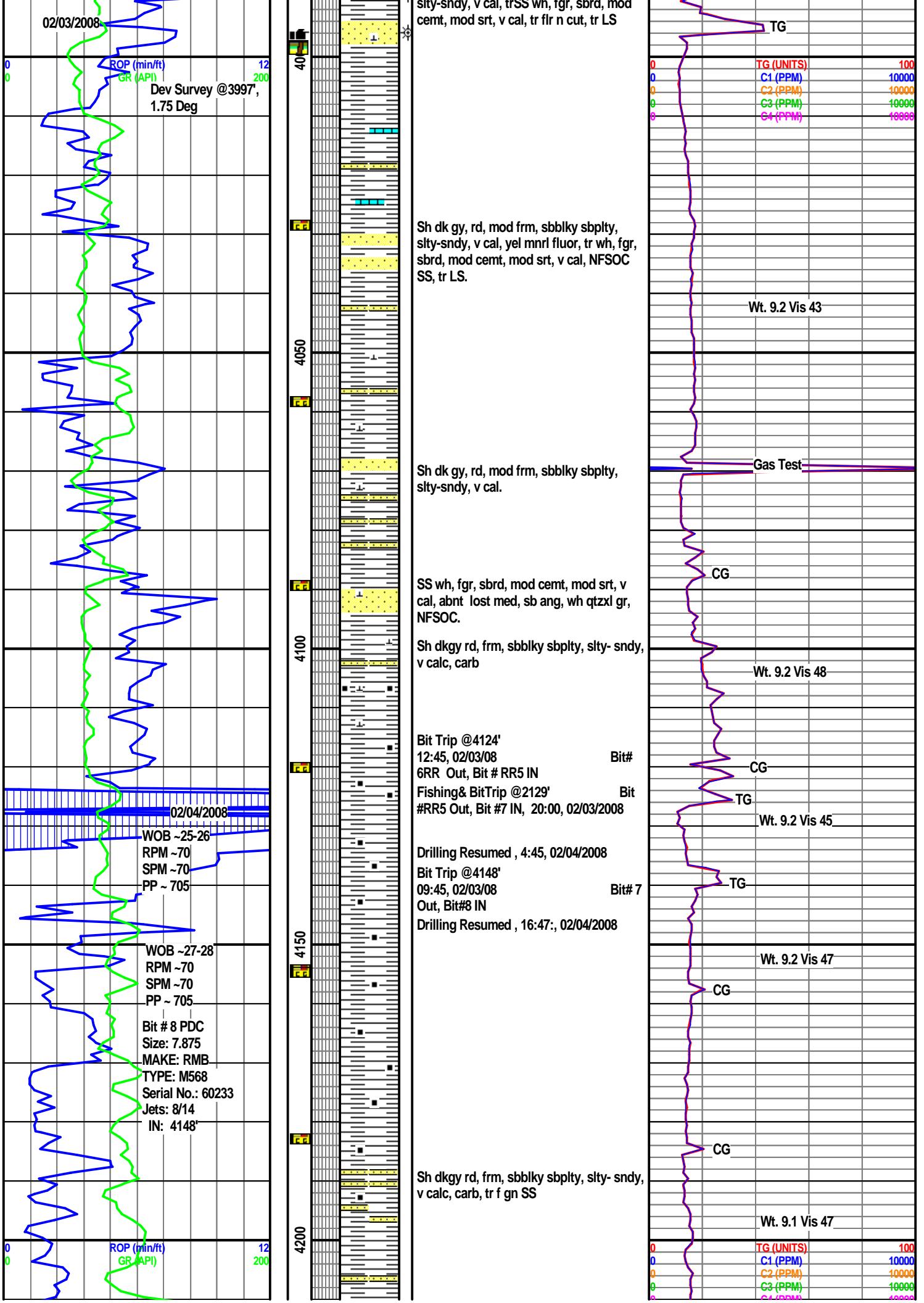
Wt. 9.2 Vis 46

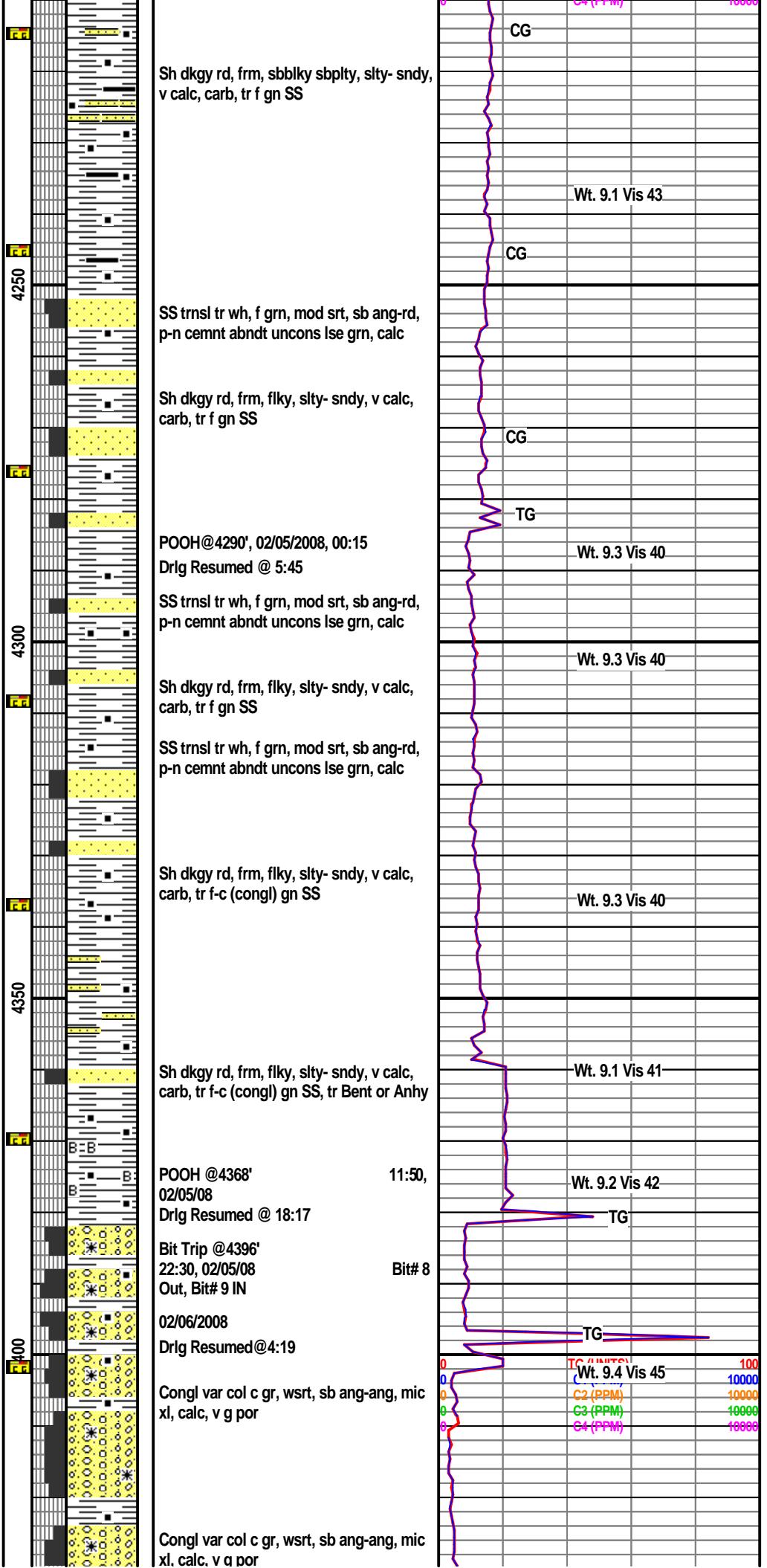
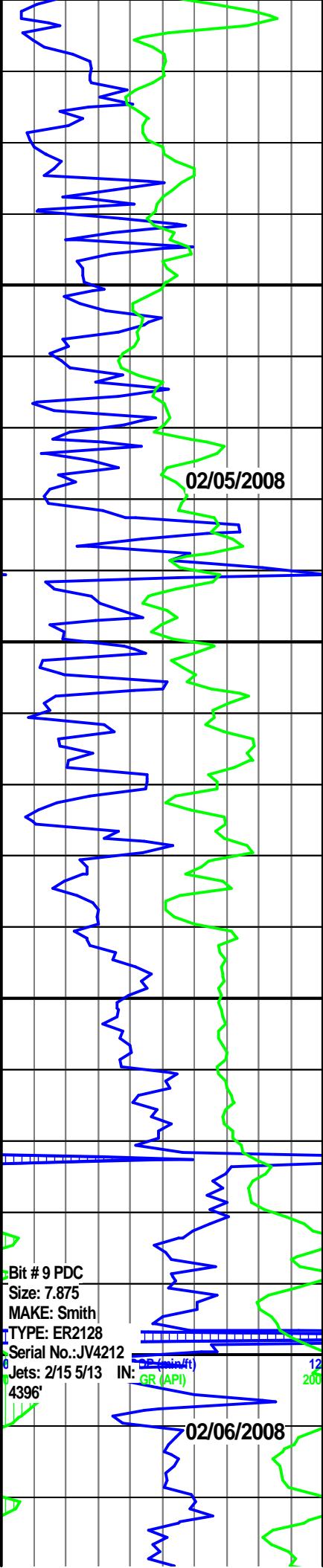
Sh dk gy, rd, frm, sbblky-sbplty, silty- v  
sndy. cal. tr SS. LS.

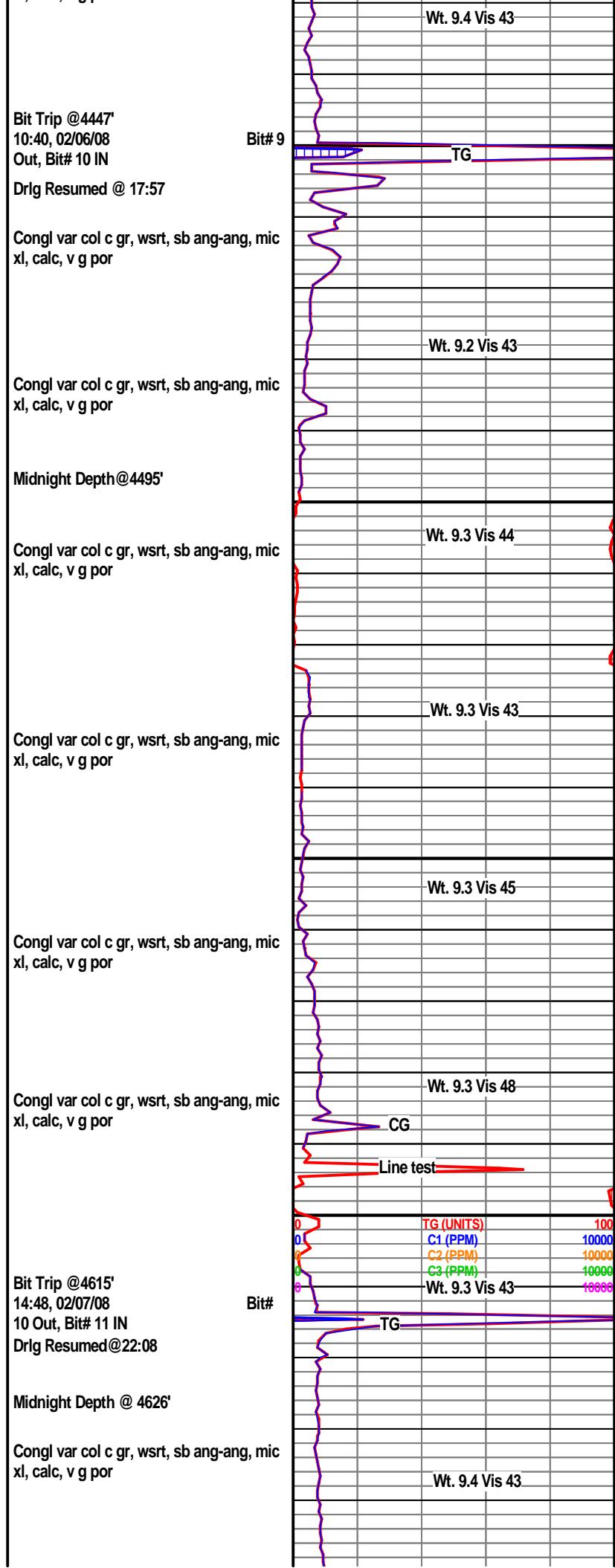
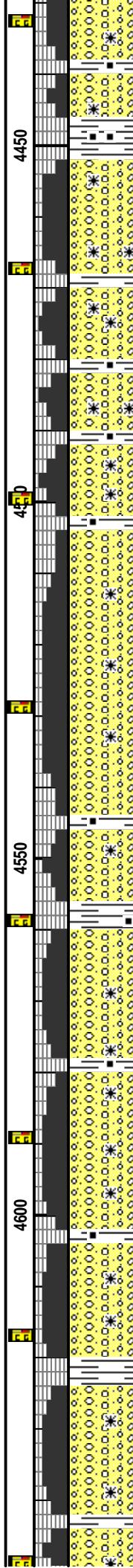
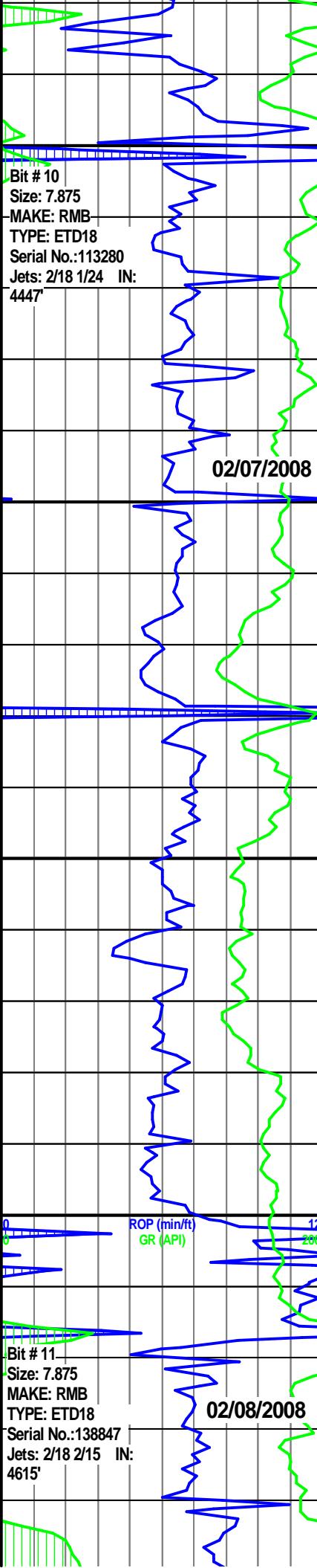
02/03/2008

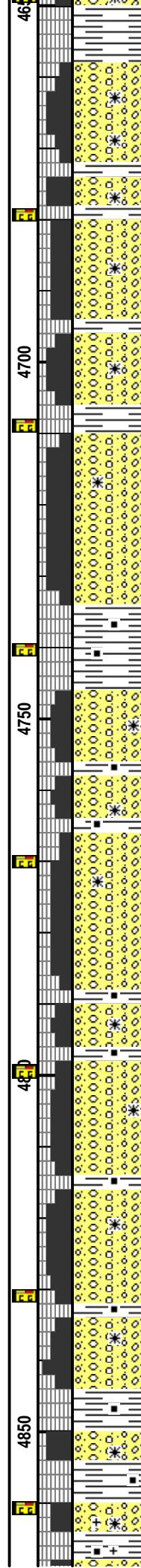
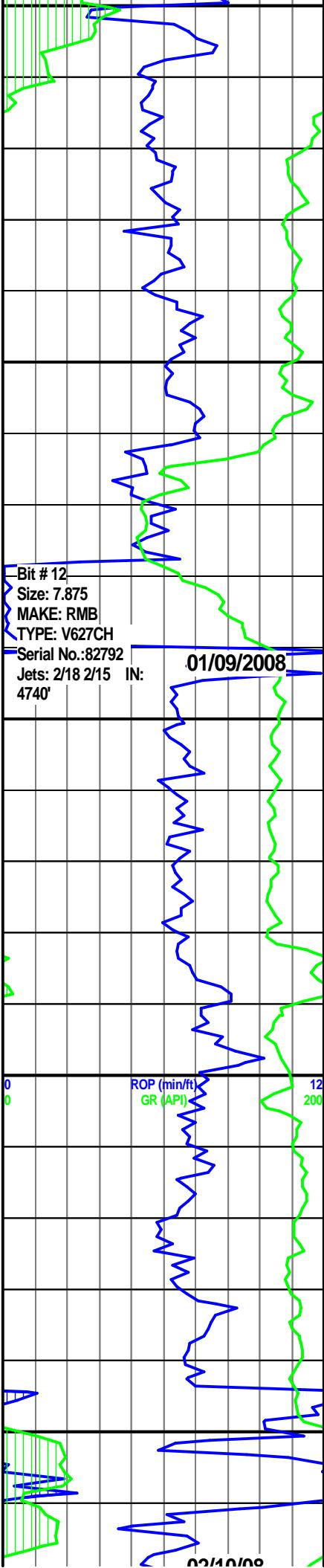
**Sh dk gy, rd, frm, sbblky sbplty.**

Wt. 9.3 Vis 52









Congl var col c gr, wsrt, sb ang-ang, mic  
xl, calc, v g por

Wt. 9.2 Vis 42

Congl var col c gr, wsrt, sb ang-ang, mic  
xl, calc, v g por

CG

Congl var col c gr, wsrt, sb ang-ang, mic  
xl, calc, v q por

Wt. 9.2 Vis 38

Bit Trip @4740'  
12:45, 02/08/08  
11 Out, Bit# 12 IN  
01/09/2008  
Drlg Resumed@10

**CONGL orng trnsl, vc gr, wsrt, ang, g por,  
calc, NFSOC**

**CONGL orng trnsl, vc gr, wsrt, ang, g por,  
calc, NFSOC**

Wt. 9.4 Vis 37

**CONGL orng trnsl, vc gr, wsrt, ang, g por,  
calc, NFSOC**

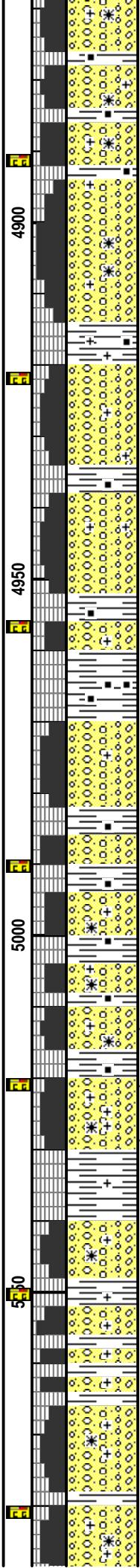
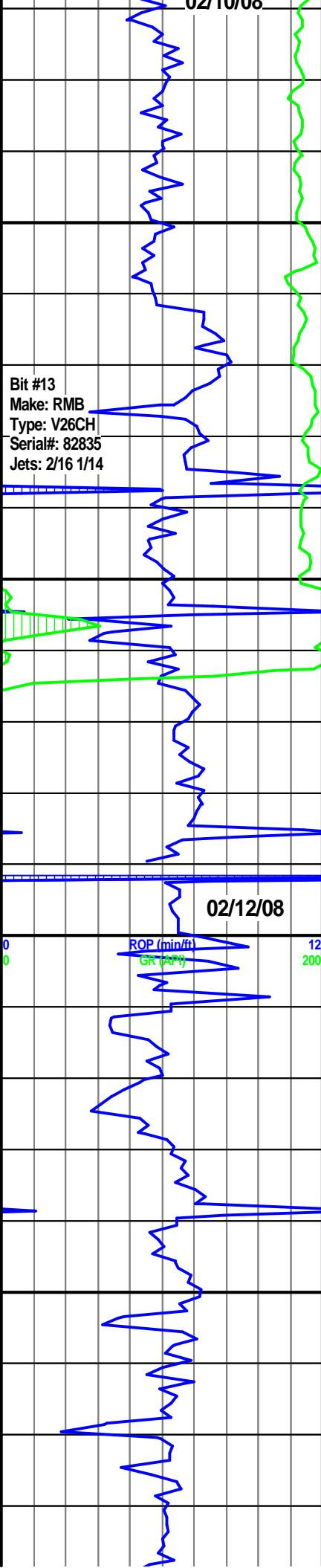
CG  
TG (uNITS) 100  
C1 (PPM) 10000  
C<sub>1</sub> Wt. 9.4 Vis 37 10000  
C3 (PPM) 10000  
C4 (PPM) 10000

**CONGL orng trnsl, vc gr, wsrt, ang, g por,  
calc, NFSOC**

**CONGL orng trnsl, vc gr, wsrt, ang, g por,  
calc, NFSOC**

Wt. 9.4 Vis 42

Midnight Depth@4846'



CONGL orng trnsl, vc gr, wsrt, ang, g por, calc, NFSOC, tr feldspar

CONGL orng trnsl, vc gr, wsrt, ang, g por, calc, NFSOC, tr feldspar

POOH @ 4937', Wash in Pipes  
10:45, 02/10/08

Bit#12 out, Bit#13 in  
Drlg Resumed@18:40

POOH @ 4957', Wash in Pipes  
21:00, 02/10/08

Drlg resumed@23:45

Sh blk, frm, plty, smth, carb, calc

Open Hole Logging @ 4992'

Drlg Resumed @ 23:45

2/12/2008

Midnight Depth @ 4993'

CONGL orng trnsl, vc gr, wsrt, ang, g por, calc, tr feldspar, tr yel flr, n Cut

CONGL orng trnsl, vc gr, wsrt, ang, g por, calc, tr feldspar, NFSOC

CONGL orng trnsl, vc gr, wsrt, ang, g por, calc, tr feldspar, NFSOC

Wt. 9.4 Vis 40

Wt. 9.5 Vis 38

Wt. 9.5 Vis 40

Rig power problem

Wt. 9.2 Vis 40  
T2 ("NITS")  
C1 (PPM)  
C2 (PPM)  
C3 (PPM)  
C4 (PPM)

TG

CG

Line Test

Wt. 9.6Vis40

CG

Wt. 9.1 Vis 41

