

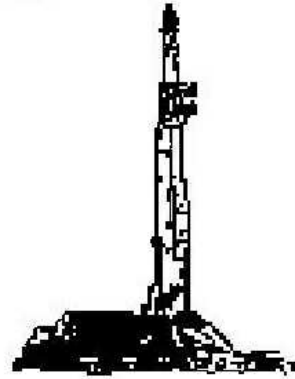
# GOOLSBY BROTHERS and associates, inc.

575 Union Blvd, Suite 208  
Lakewood, CO 80228  
303-945-2860 Office



Geological Wellsite  
Supervision

[www.goolsbybrothers.com](http://www.goolsbybrothers.com)



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

Well Name: Critter Creek 22-27H  
Location: Hereford Ranch Prospect - NW/NW Sec 27 T11N R63W Weld County, Colorado  
License Number: API: 05-123-31507 Region: DJ Basin  
Spud Date: 10/8/10 Drilling Completed: \*7" Csg. Pt. on 10/15/10  
Surface Coordinates: 501' FNL, 501' FWL NW/NW Section 27 T11N R63W  
Latitude 40° 53' 57.510 N Longitude 104° 25 ' 33.880 W  
Bottom Hole Coordinates: Proposed: 600' FSL & 600' FEL Section 27 T11N R63W  
Actual: 719' FSL & 593' FEL  
Ground Elevation (ft): 5219' K.B. Elevation (ft): 5241'  
Logged Interval (ft): 1339' To: \*7585' MD Total Depth (ft): \* 7585' MD (7" Csg. Pt.)  
Formation: Niobrara 'B' Chalk  
Type of Drilling Fluid: Water

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

## OPERATOR

Company: EOG Resources, Inc.  
Address: 600 17th St., Ste. 1000  
Denver, CO 80202  
Co. Geologist: John Melby

## GEOLOGIST

Name: Mike Dodge and Robert Nordeck  
Company: Goolsby Brothers & Assoc. (GBA), Inc. ([www.goolsbybrothers.com](http://www.goolsbybrothers.com))  
Address: 575 Union Blvd.  
Suite 208,  
Lakewood CO. 80228

## E-Logs

MWD GR from BSC to TD.

## Casing

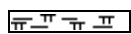


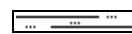



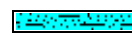
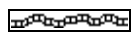
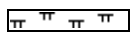

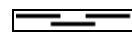

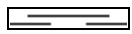


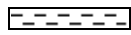

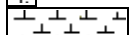
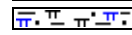



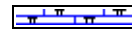
9 5/8" 36# J55 STC set @ 1339'.  
 7" 23# HC-P110 LTC set @ 7585'.  
 4.5" 11.6# P110 LTC from KOP to TD.

## Comments

\*This well was spudded @ 02:00 on 10/8/10. A 13½" Hole was drilled to 1339', and 9 5/8" S.C. was set. The well was Drilled Vertically to KOP of 6812', at which point angle was built to 88° by 7585' MD. 7" Casing was set, and the well was then Drilled Horizontally to a TD of 12,950' MD. This Vertical Strip Log covers the Interval from S.C. to 7" Intermediate Casing. A Horizontal Strip Log was made covering the interval from 6812' (KOP) to TD.

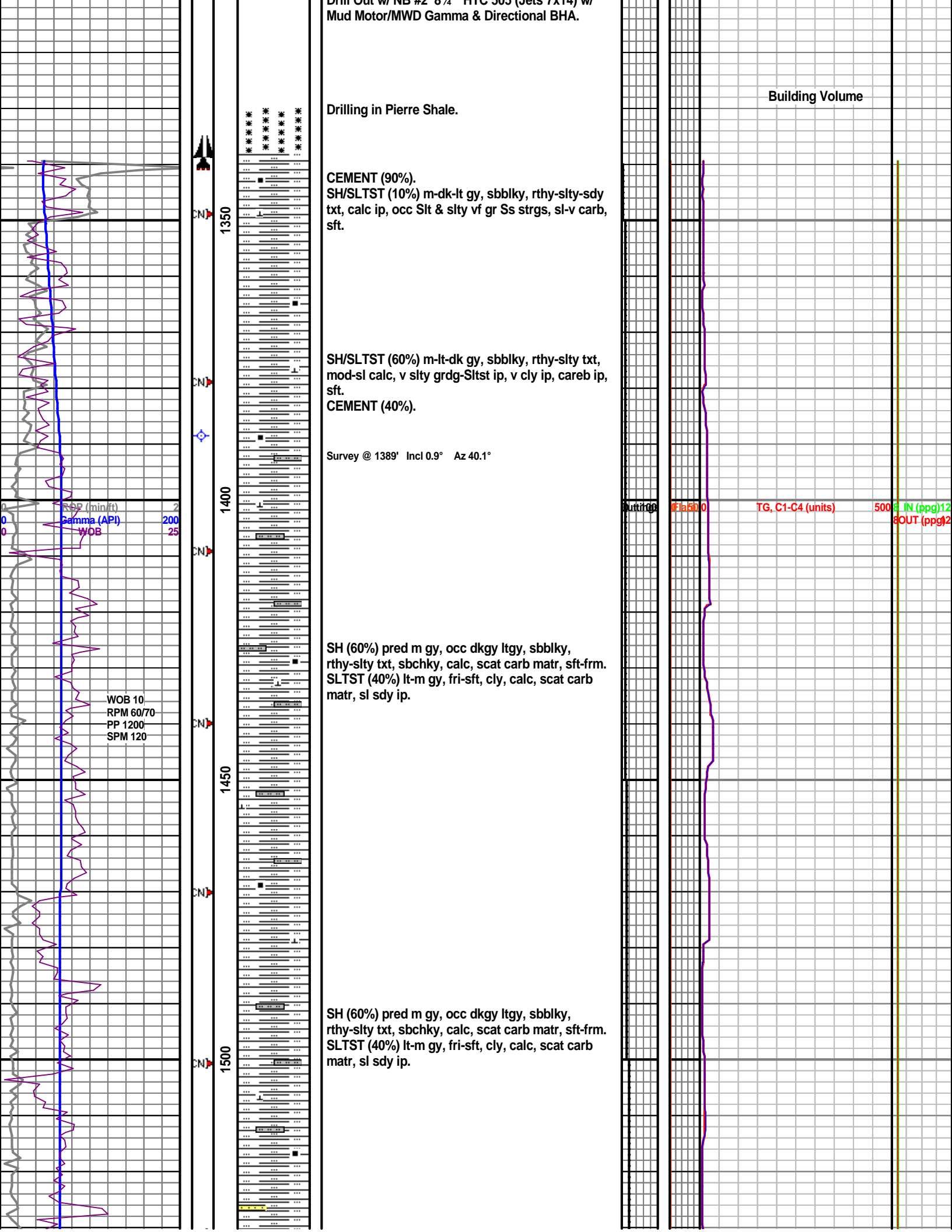
- 1) Drilling Contractor: DHS Drilling Co., Rig #8  
 Tool Pusher: Scott Putnam, Terry Florres, Dwayne Pitt.  
 Pumps: #1 & #2 PZ-9 5.5" x 9" (.0628 bbl/stk)
- 2) Company Men: Tim Storey, Bill Laird.
- 3) Directional Services / MWD GR: Phoenix Technology / Nevis Energy Services: Ken Jones, Jeff Ruddick, Brian Heath, Jack Miller.
- 4) Mud Company: Baker Hughes Drilling Fluids  
 Mud Engineer: Blake Mihalic, Michael Foust.  
 Solids Control: National Oilwell Varco / Brandt's Solids Control.
- 5) Contained/Under Balanced Drilling System: Weatherford.
- 6) Gas Detection Equipment: Mudlogging Systems Inc.  
 by Terra Services  
 Redbox TGC #ML-073 (Total Gas/Chromatograph).

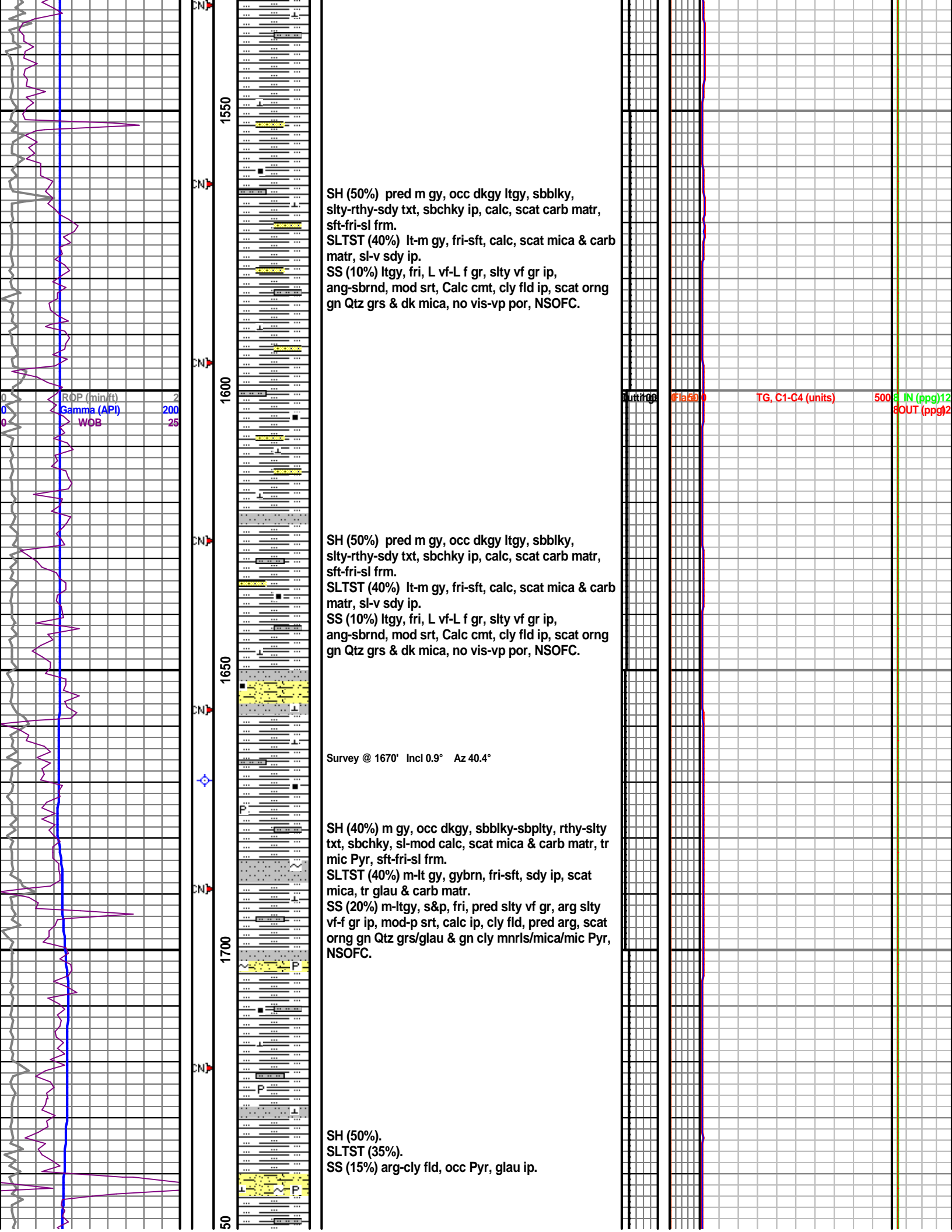
## ROCK TYPES

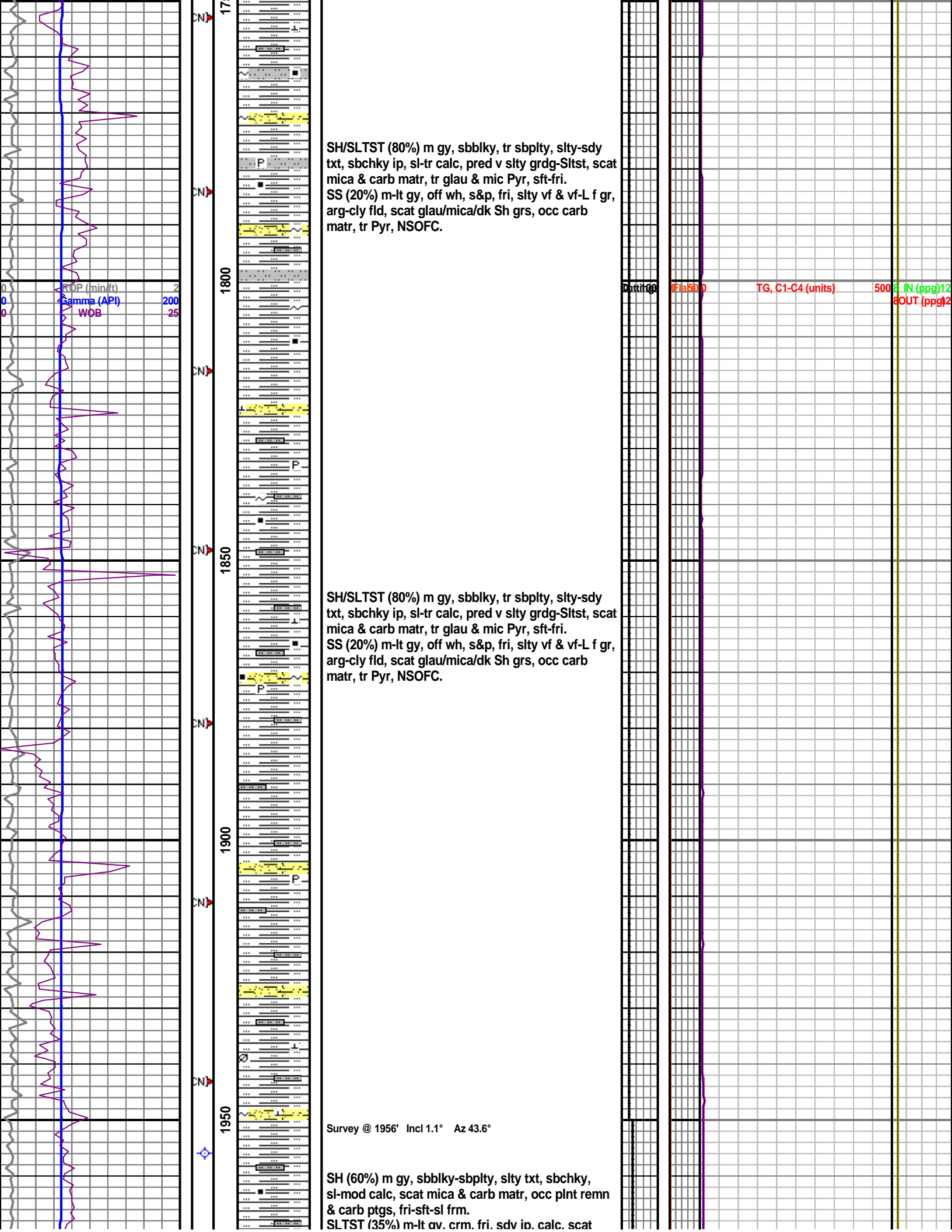
	Arg mrlst		Congl		Ss (>fgr)		Slty sh
	Arg chalk		Ls		Chlk		Cly based sltst
	Bent		Mrlst		Mdstn		Carb sh
	Arg ss		Sh		Fracture		Niobrara chalk
	Clyst		Cement		Mdstn		Arg chky mrlst
	Coal		Sltst		Ss (<f gr)		Marly chalk

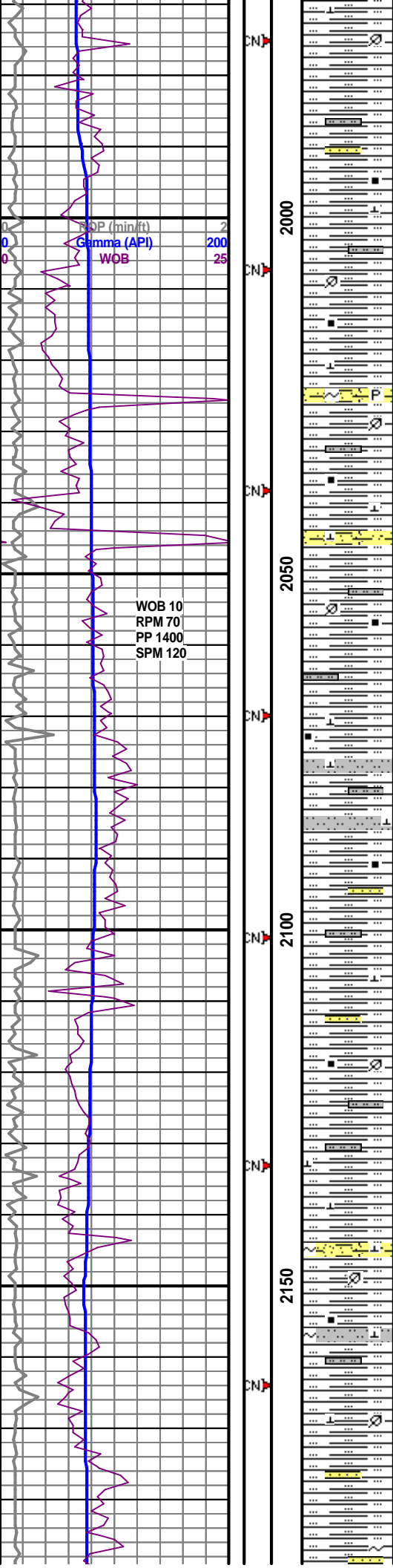


Drill Out w/ NB #2 8 1/4" HTC 305 (Jets 7x14) w/  
Mud Motor/MWD Gamma & Directional BHA.









SH (60%) m gy, crm, fri, sdy ip, calc, scat mica & carb matr, tr-occ glau, tr Pyr. SS (5%).

SH (60%) m gy, sbblky-sbplty, slty txt, sbchky, sl-mod calc, scat mica & carb matr, occ plnt remn & carb ptgs, fri-sft-sl frm.

SLTST (35%) m-lt gy, crm, fri, sdy ip, calc, scat mica & carb matr, tr-occ glau, tr Pyr. SS (5%).

SH (60%) m gy, gybrn, sbblky, tr sbplty, slty-rthy txt, sl calc, scat mica & carb matr, tr carb ptgs, sft-fri.

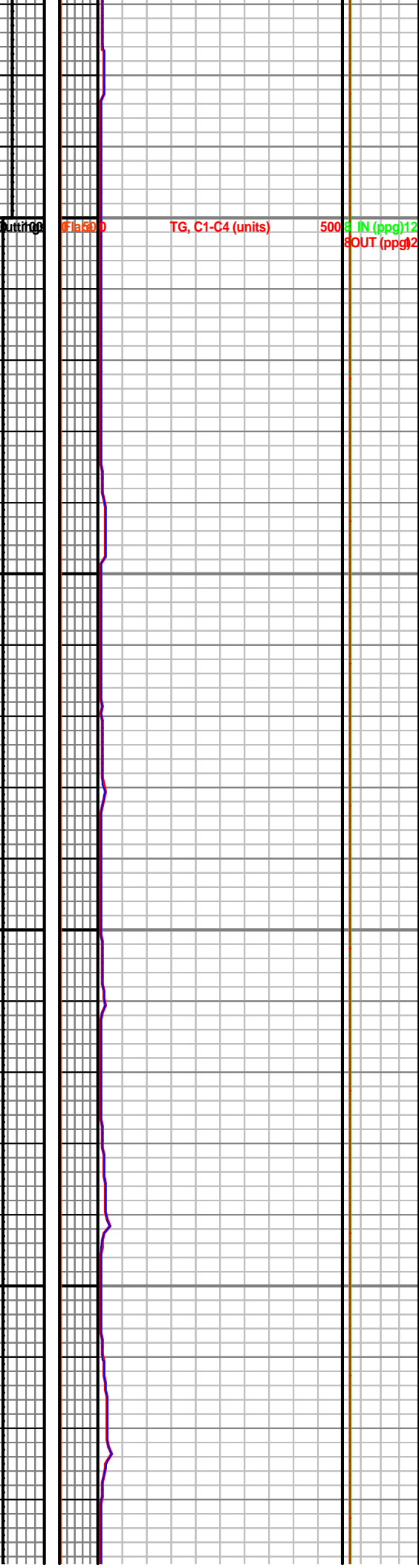
SLTST (35%) m-ltgy, fri-sft-sl frm, sl calc, sdy ip, scat mica & carb matr.

SS (5%) crm offwh ltgy, fri, vf gr, mod w srt, calc-v calc, cly fld, arg ip, scat mica, tr carb matr & dk mnrls, NSOFC.

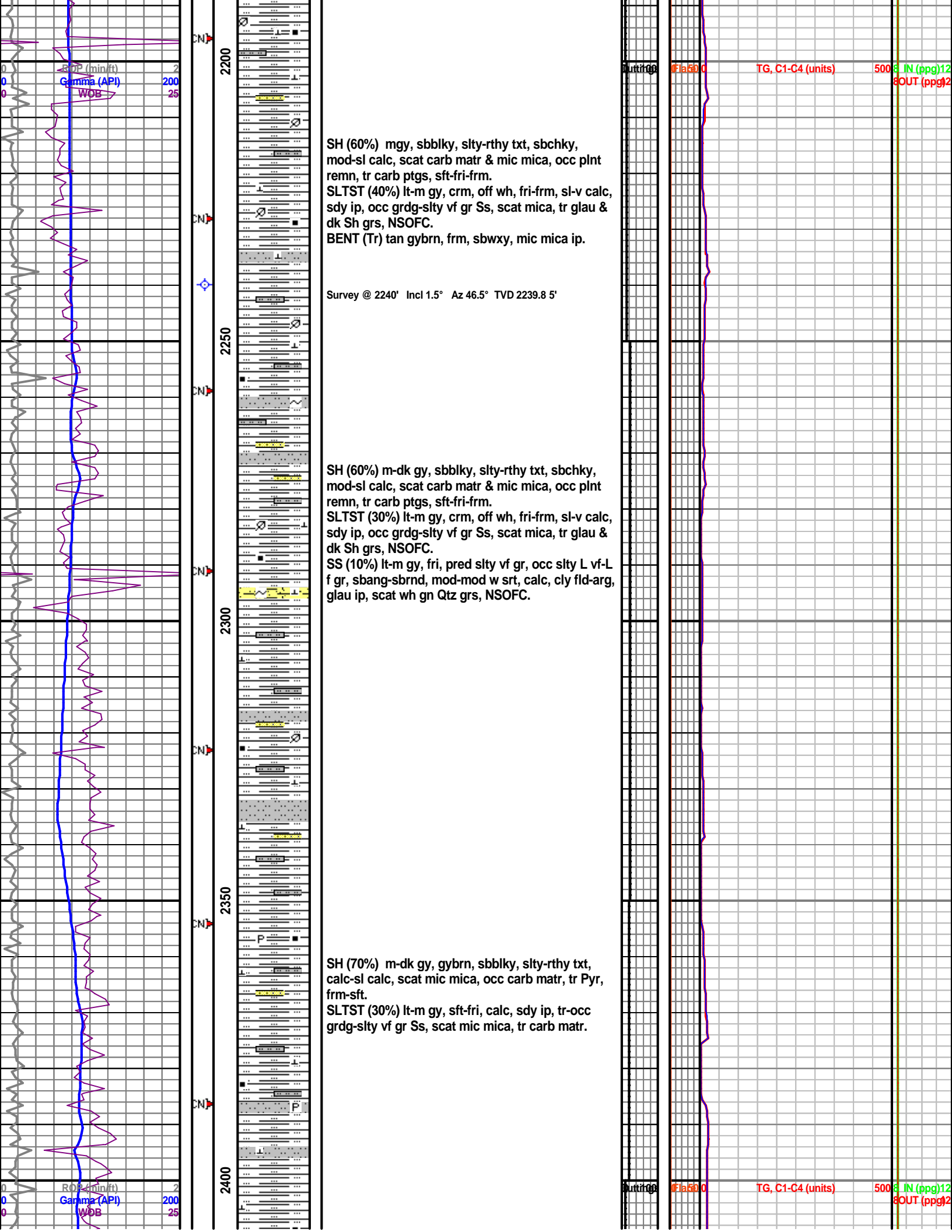
SH (60%) mgy, sbblky, slty-rthy txt, sbchky, mod-sl calc, scat carb matr & mic mica, occ plnt remn, tr carb ptgs, sft-fri-frm.

SLTST (40%) lt-m gy, crm, off wh, fri-frm, sl-v calc, sdy ip, occ grdg-slty vf gr Ss, scat mica, tr glau & dk Sh grs, NSOFC.

LS (Tr) gybrn, frm, dns sbchky arg, crp xln.







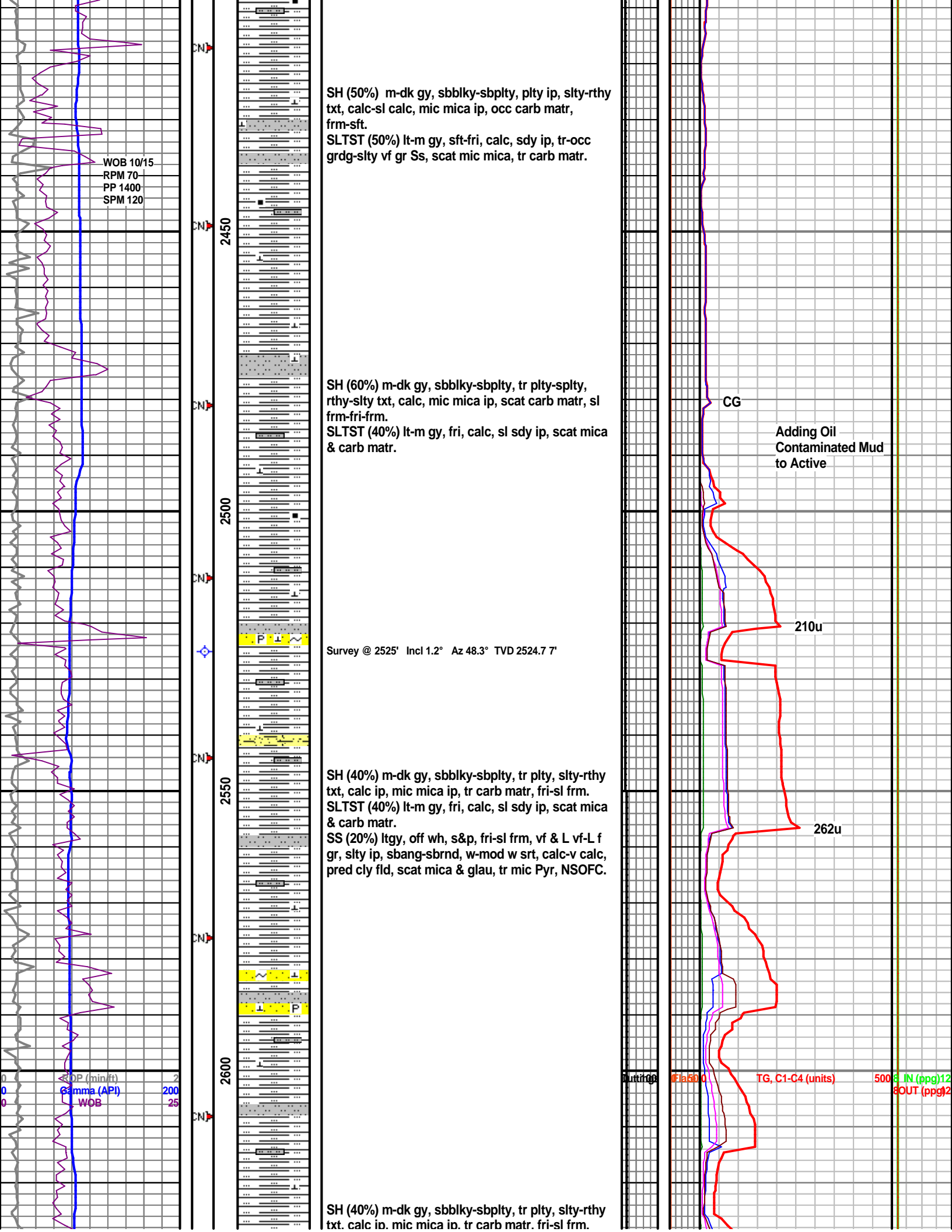
SH (60%) mgy, sbblky, slty-rthy txt, sbchky, mod-sl calc, scat carb matr & mic mica, occ plnt remn, tr carb ptgs, sft-fri-frm.  
SLTST (40%) lt-m gy, crm, off wh, fri-frm, sl-v calc, sdy ip, occ grdg-slty vf gr Ss, scat mica, tr glau & dk Sh grs, NSOFC.  
BENT (Tr) tan gybrn, frm, sbwxy, mic mica ip.

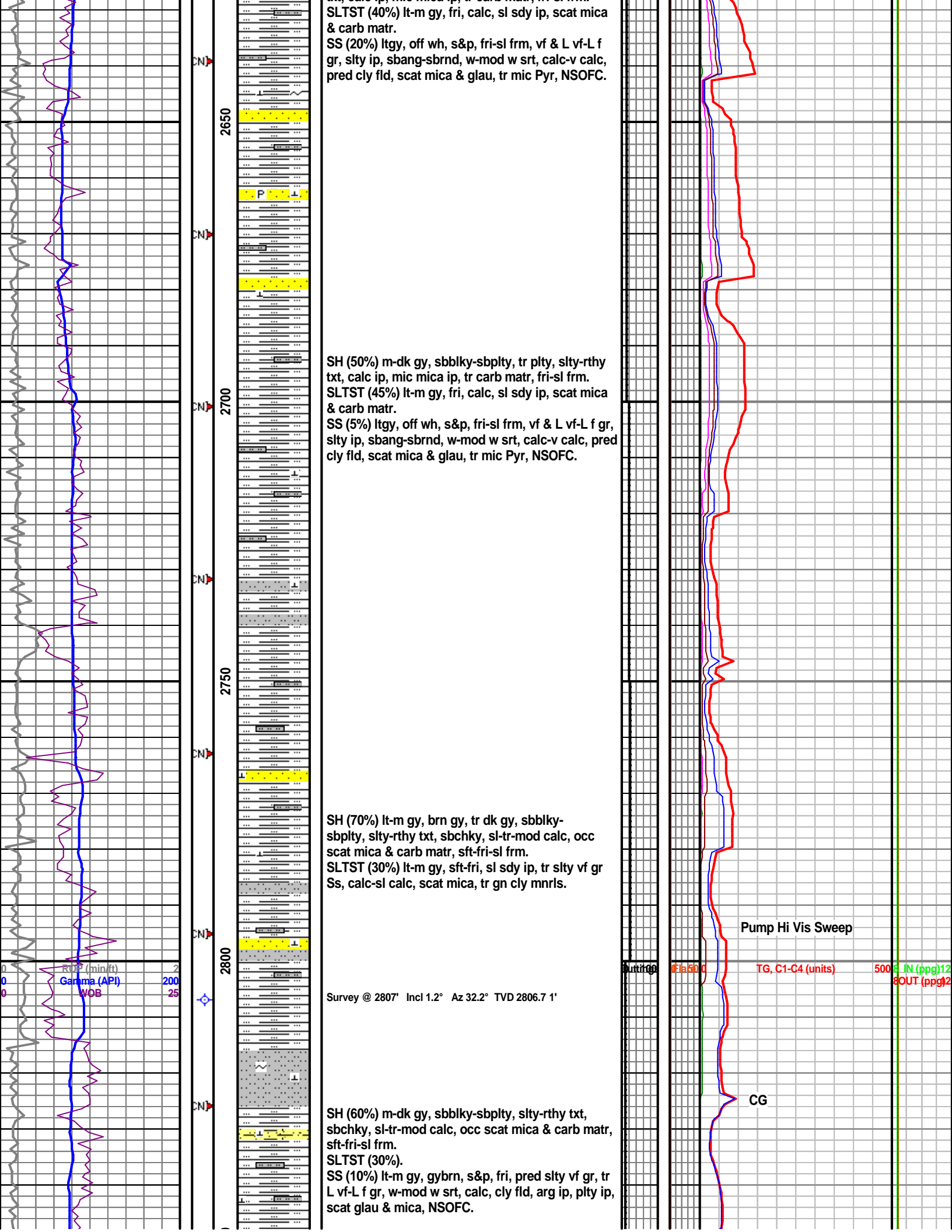
Survey @ 2240' Incl 1.5° Az 46.5° TVD 2239.8 5'

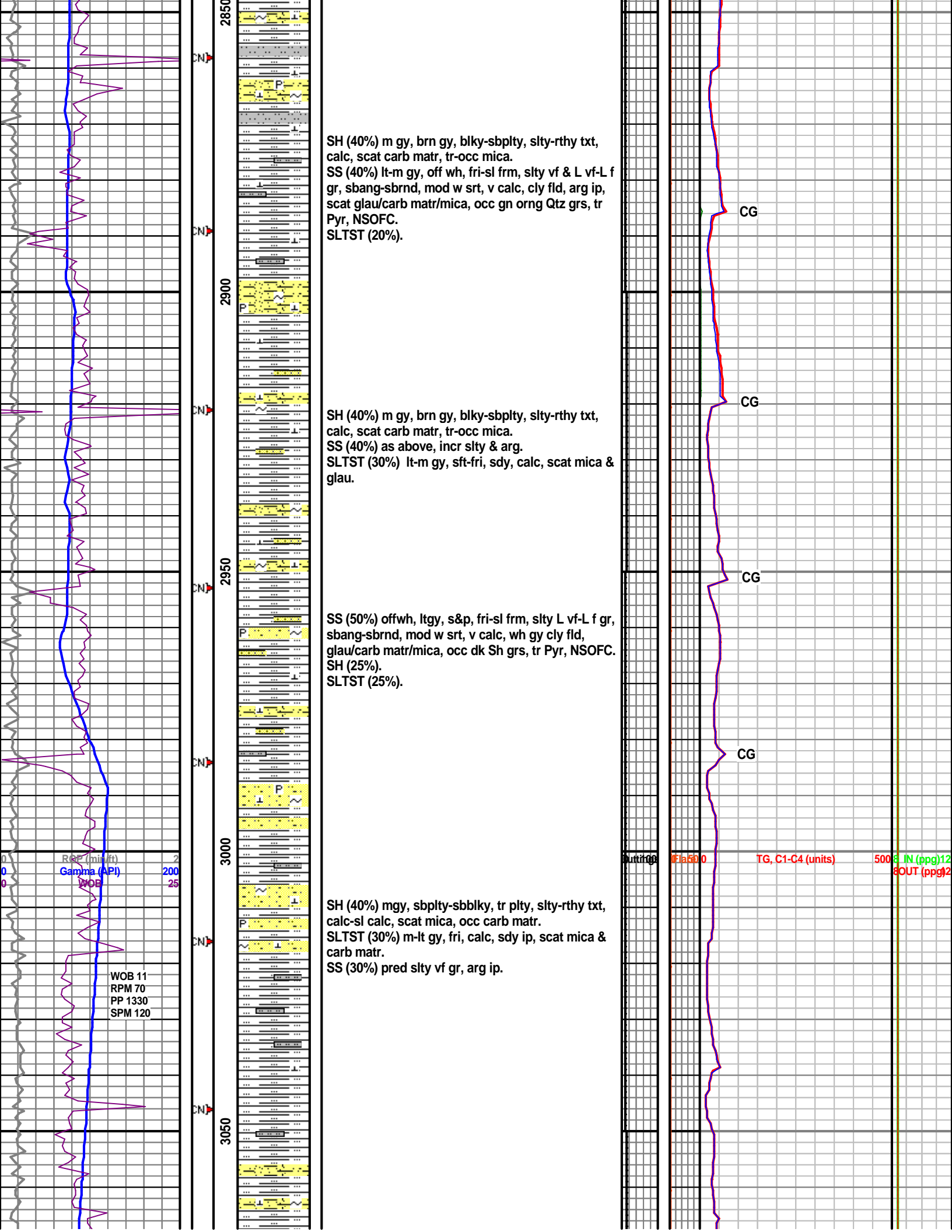
SH (60%) m-dk gy, sbblky, slty-rthy txt, sbchky, mod-sl calc, scat carb matr & mic mica, occ plnt remn, tr carb ptgs, sft-fri-frm.  
SLTST (30%) lt-m gy, crm, off wh, fri-frm, sl-v calc, sdy ip, occ grdg-slty vf gr Ss, scat mica, tr glau & dk Sh grs, NSOFC.  
SS (10%) lt-m gy, fri, pred slty vf gr, occ slty L vf-L f gr, sbang-sbrnd, mod-mod w srt, calc, cly fld-arg, glau ip, scat wh gn Qtz grs, NSOFC.

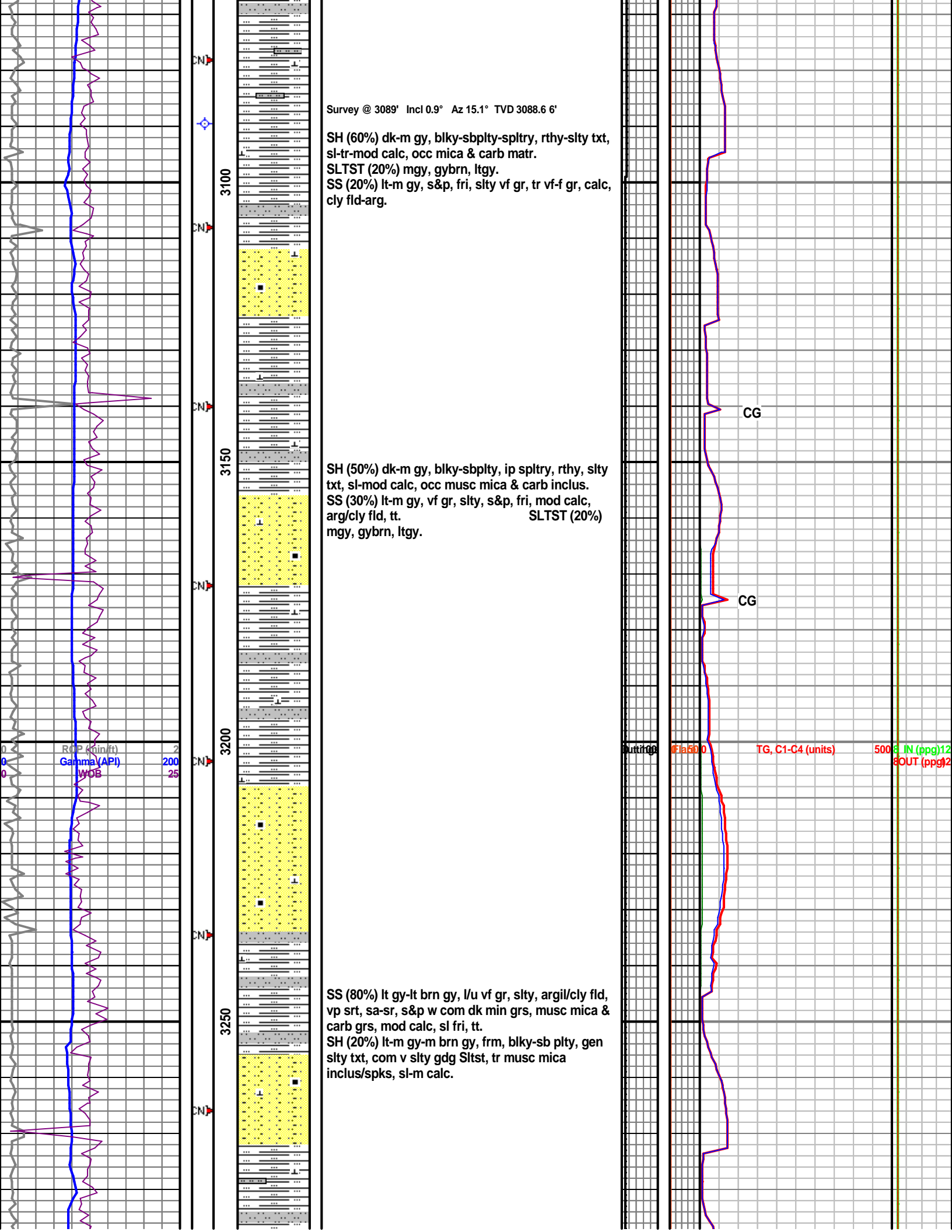
SH (70%) m-dk gy, gybrn, sbblky, slty-rthy txt, calc-sl calc, scat mic mica, occ carb matr, tr Pyr, frm-sft.  
SLTST (30%) lt-m gy, sft-fri, calc, sdy ip, tr-occ grdg-slty vf gr Ss, scat mic mica, tr carb matr.

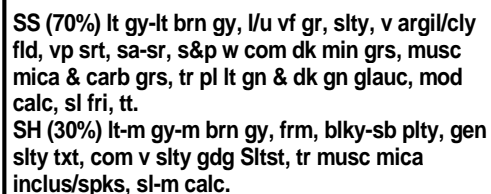




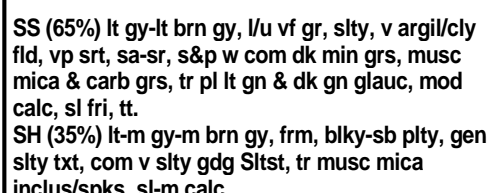




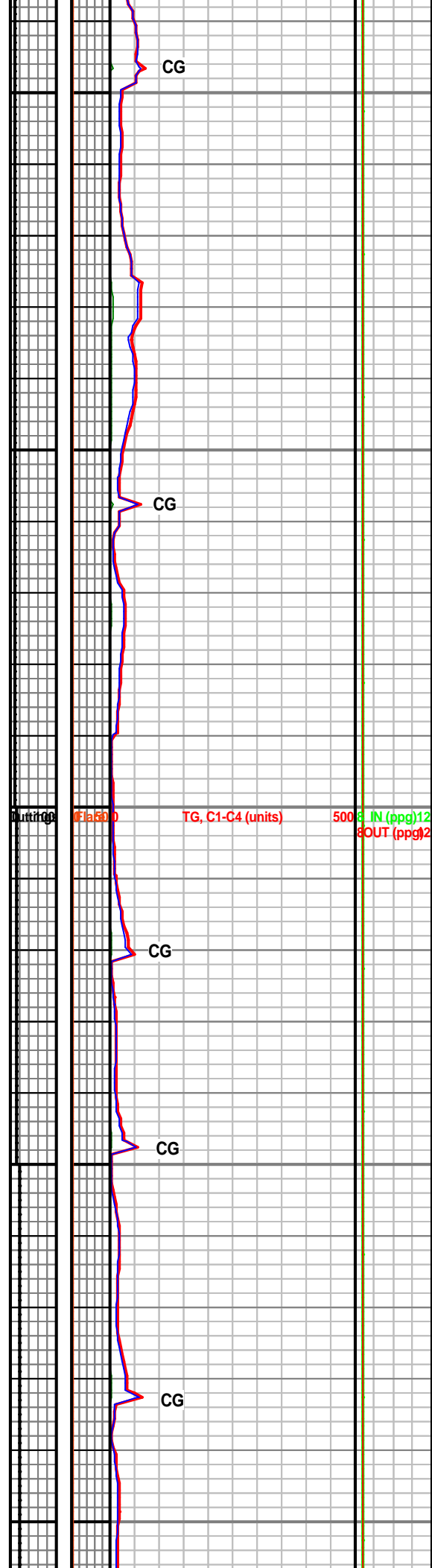
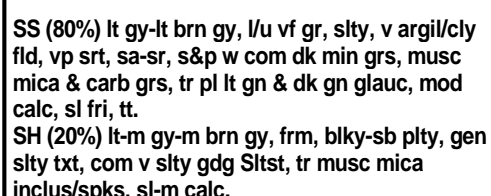


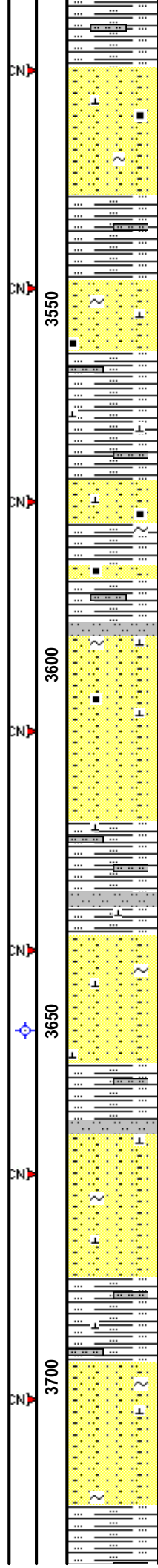
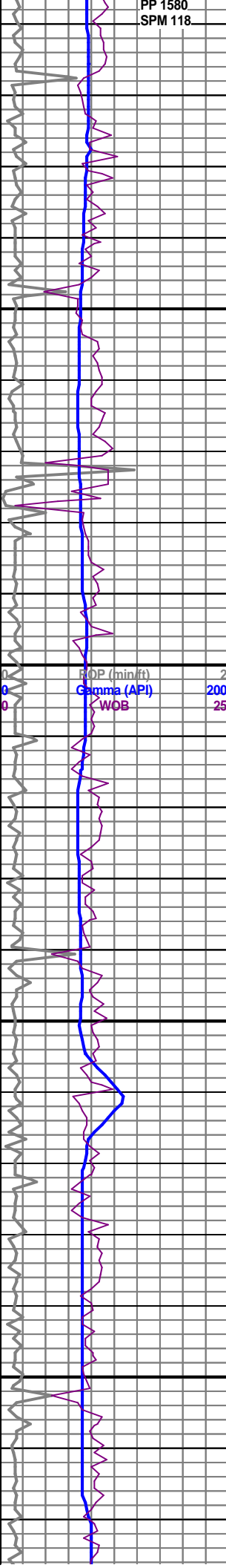


Survey @ 3370' Incl 1.0° Az 359.7° TVD 3369.62'



**Terry / Sussex SS (Samples):**  
**3448' (+1793)**



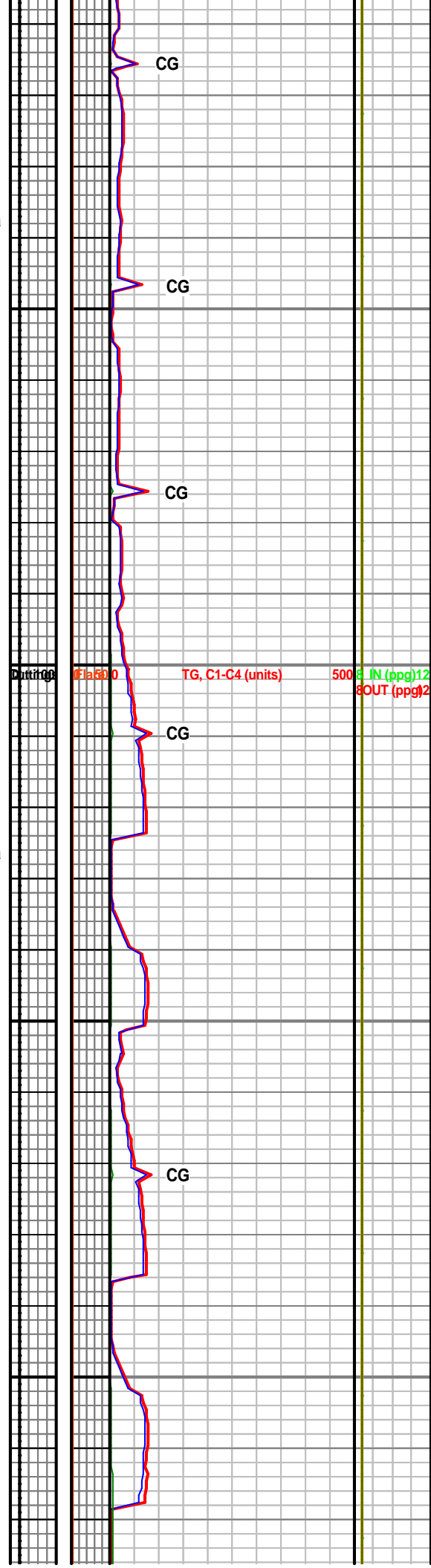


SS (90%) lt gy-lt brn gy, l/u vf gr, slty, v argil/clty  
fld, vp srt, a-sa, s&p w com dk min grs, musc mica  
& carb grs, tr dk gn glauc, sl-mod calc, sl fri, tt.  
SH (10%) lt-m gy-m brn gy, frm, blk-y-sb plty, gen  
slty txt, com v slty gdg Sltst, tr musc mica  
includ/spks, sl-occ m calc.

SS (80%) lt gy-lt brn gy, l/u vf gr, slty, v argil/clty  
fld, vp srt, a-sa, s&p w com dk min grs, musc mica  
& carb grs, tr dk gn glauc, sl-mod calc, sl fri, tt.  
SH (20%) lt-m gy-m brn gy, frm, blk-y-sb plty, gen  
slty txt, com v slty gdg Sltst, tr musc mica  
includ/spks, sl-occ m calc.  
Poor Samples - 80% LCM Sweeps

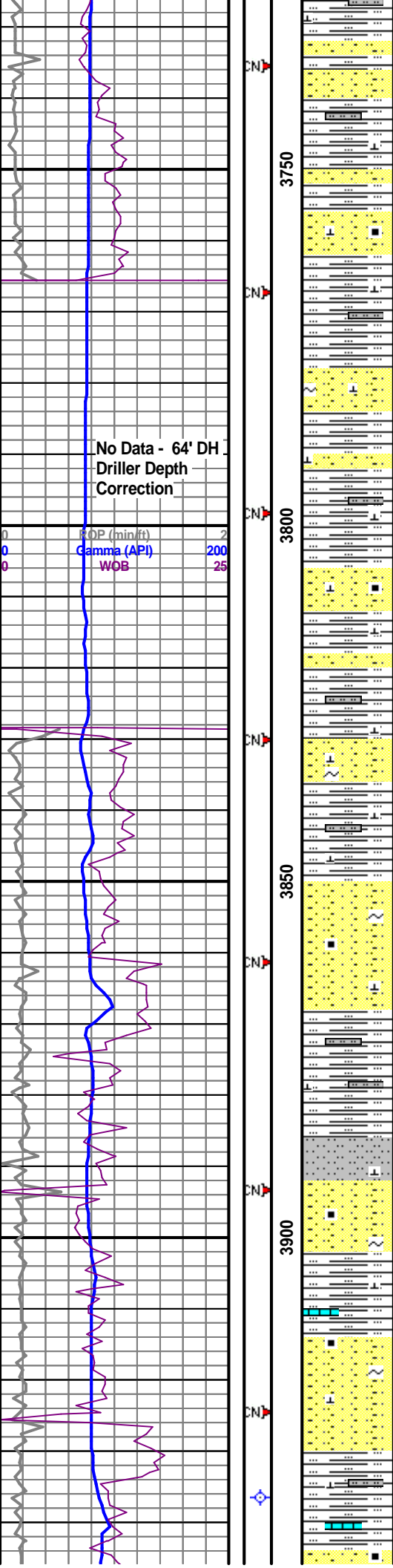
Survey @ 3651' Incl 1.0° Az 337.5° TVD 3650. 58'

SS (90%) lt gy-lt brn gy, l/u vf gr, slty, v argil/clty



Fla 500 TG, C1-C4 (units) 500 IN (ppg) 12 OUT (ppg) 2





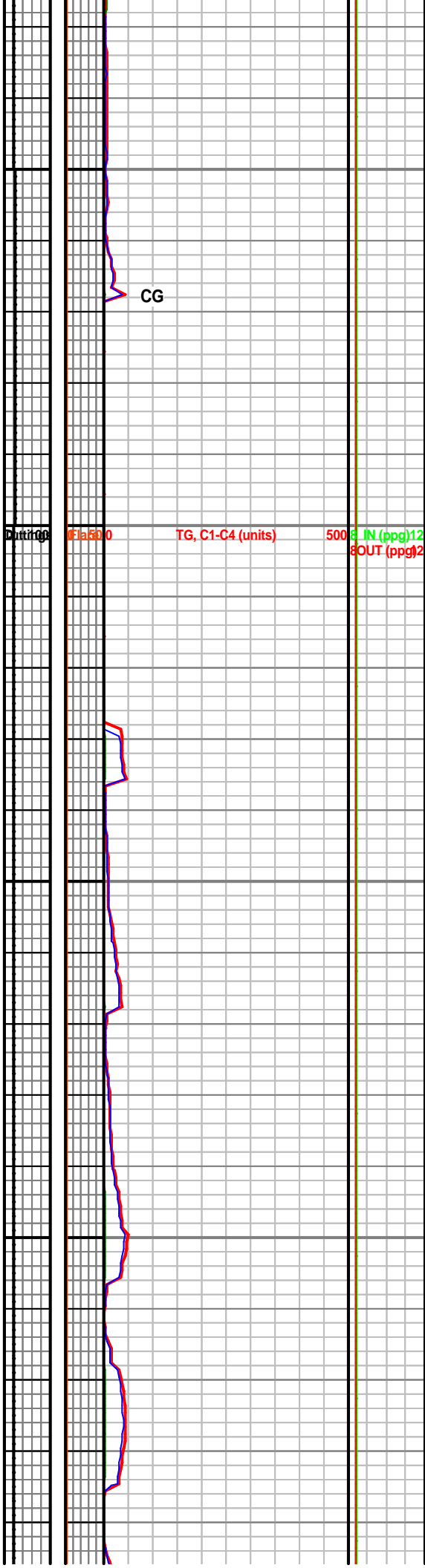
fld, vp srt, a-sa, s&p w com dk min grs, musc mica & carb grs, tr dk gn glauc, sl-mod calc, sl fri, tt. SH (10%) lt-m gy-m brn gy, frm, blkyl-sb plty, gen slty txt, com v slty gdg Sltst, tr musc mica inclus/spks, sl-occ m calc.  
Poor Samples - 80+% LCM Sweeps

NOTE: Drlr Made 64' Downhole Depth Corr: 3766' became 3829'; No Data Recorded; Work on Hook Load Sensor.

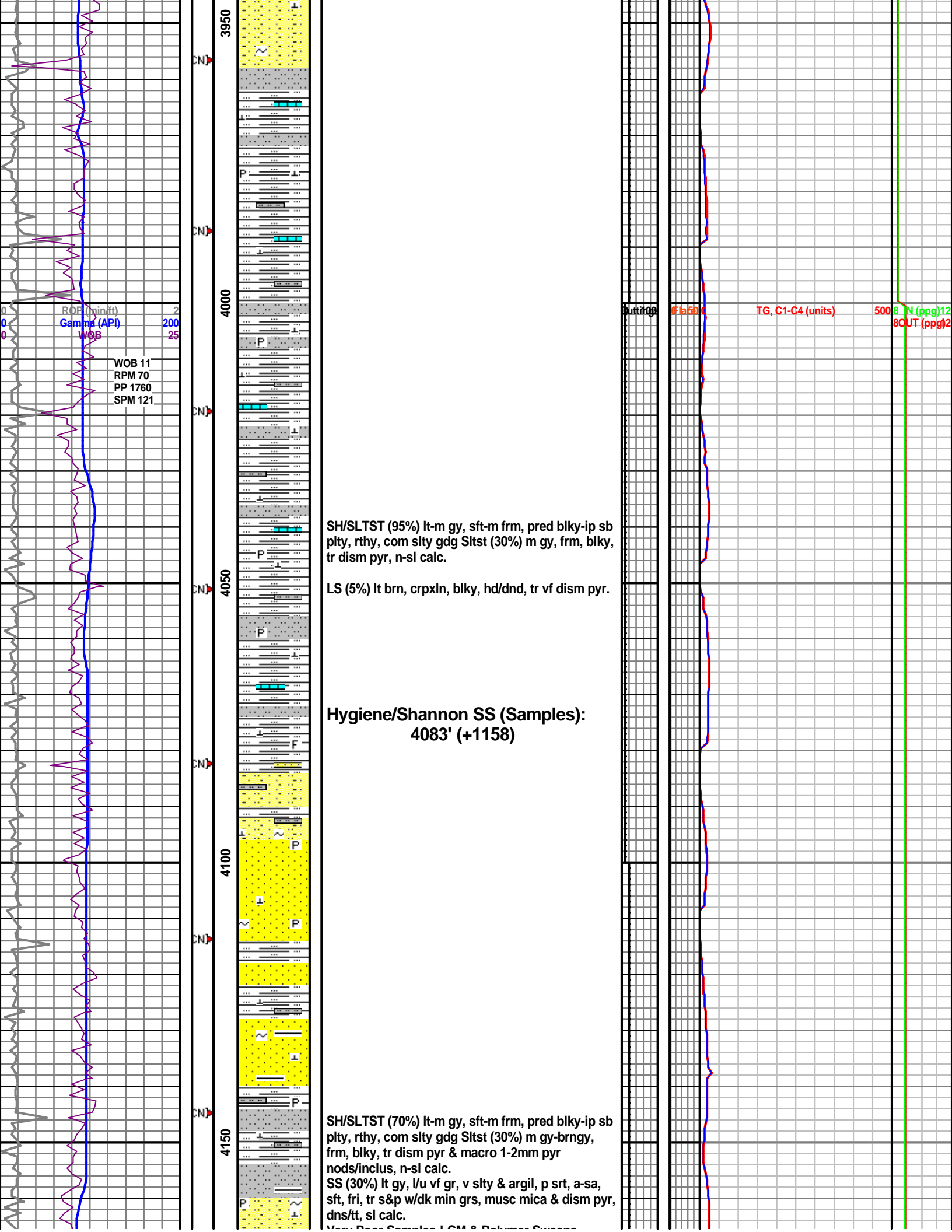
SS (75%) lt gy-lt brn gy, l/u vf gr, slty, v argil/clty fld, vp srt, a-sa, s&p w com dk min grs, musc mica & carb grs, tr dk gn glauc, sl-mod calc, sl fri, tt. SH (25%) lt-m gy-m brn gy, frm, blkyl-sb plty, gen slty txt, com v slty gdg Sltst, tr musc mica inclus/spks, sl-occ m calc.

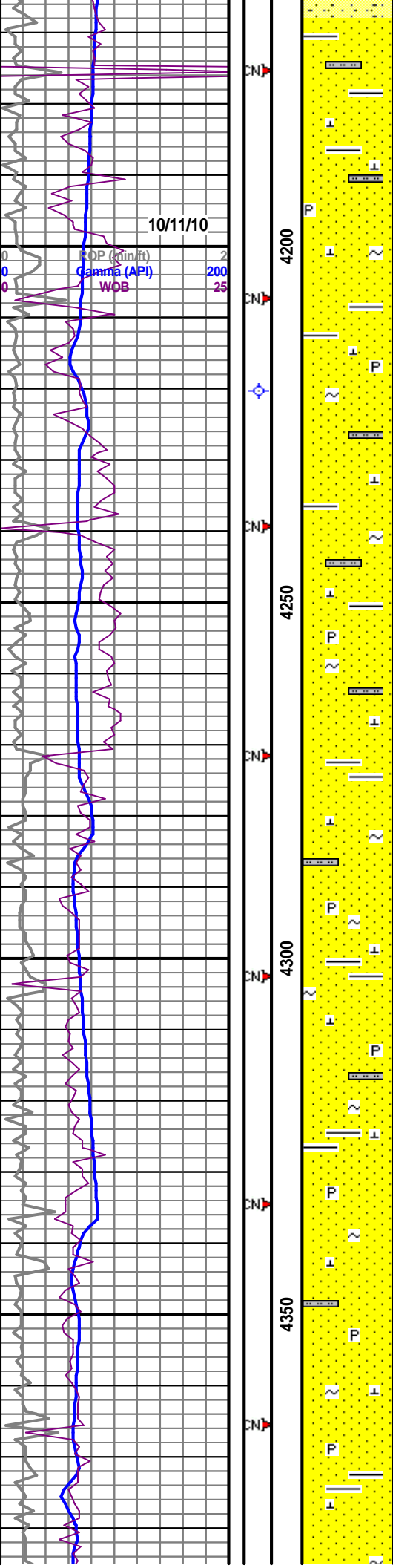
SH (75%) lt-m gy, sft-m frm, pred blkyl-ip sb plty, rthy, com slty gdg Sltst, n-sl calc.  
SS (20%) lt gy-lt brn gy, l/u vf gr, v slty, v argil/clty fld, vp srt, a-sa, s&p w com dk min grs, musc mica & carb grs, tr dk gn glauc, sl-mod calc, sl fri, tt. LS (5%) lt brn, crpxln, blkyl, hd/dnd, tr vf dism pyr.

Survey @ 3936' Incl 1.5° Az 333.6° TVD 3935. 51'









10/11/10

RDP (g/in/ft)  
Gamma (API)  
WOB

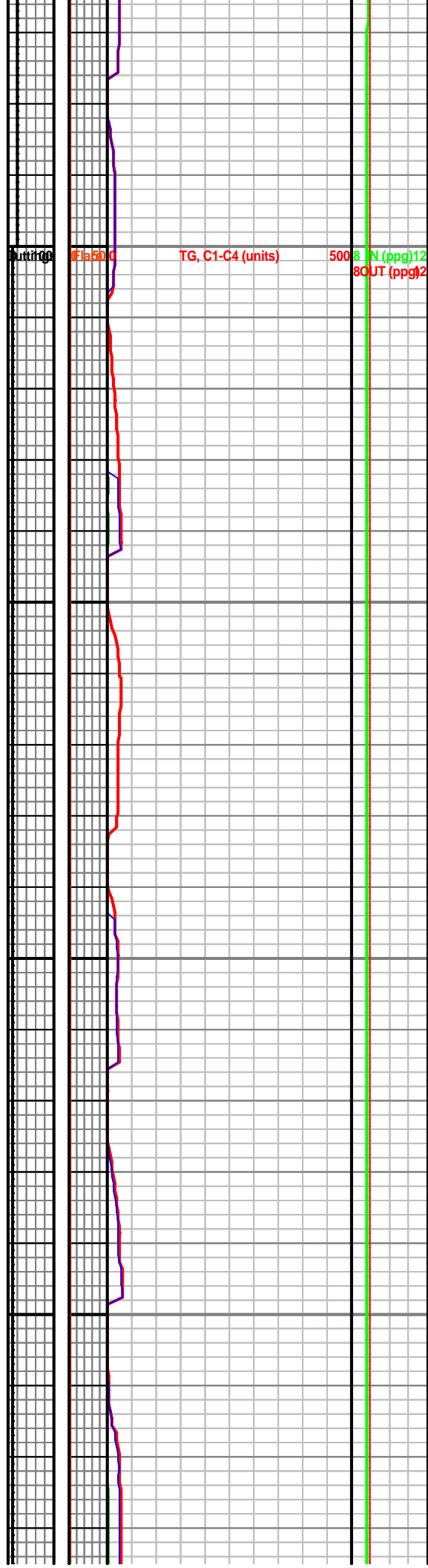
200

25

Survey @ 4220' Incl 1.7° Az 337.3° TVD 4219. 40'

SS (95%) off wh- lt gy, l/u vf gr-l f gr, fr srt, a-sr, sft, fri, wh calc cly mtx, s&p w/abnt dk min grs, musc mica & dism pyr, tr glauc, tt-vp p&p, mod-v calc, NSFOC.  
Sh (5%), m brn gy, frm, sb plty, strngrs.

SS (100%) off wh- lt gy, pred l/u vf gr-tr lwr f gr, fr srt, a-sr, sft, fri, wh calc cly mtx, s&p w/abnt dk min grs, musc mica & dism pyr, tr pl lt gn glauc, tt-vp p&p, mod-v calc, NSFOC.  
SH (Tr) m brn gy, frm, sb plty, frm, ip slty, thn lams, sl-m calc.



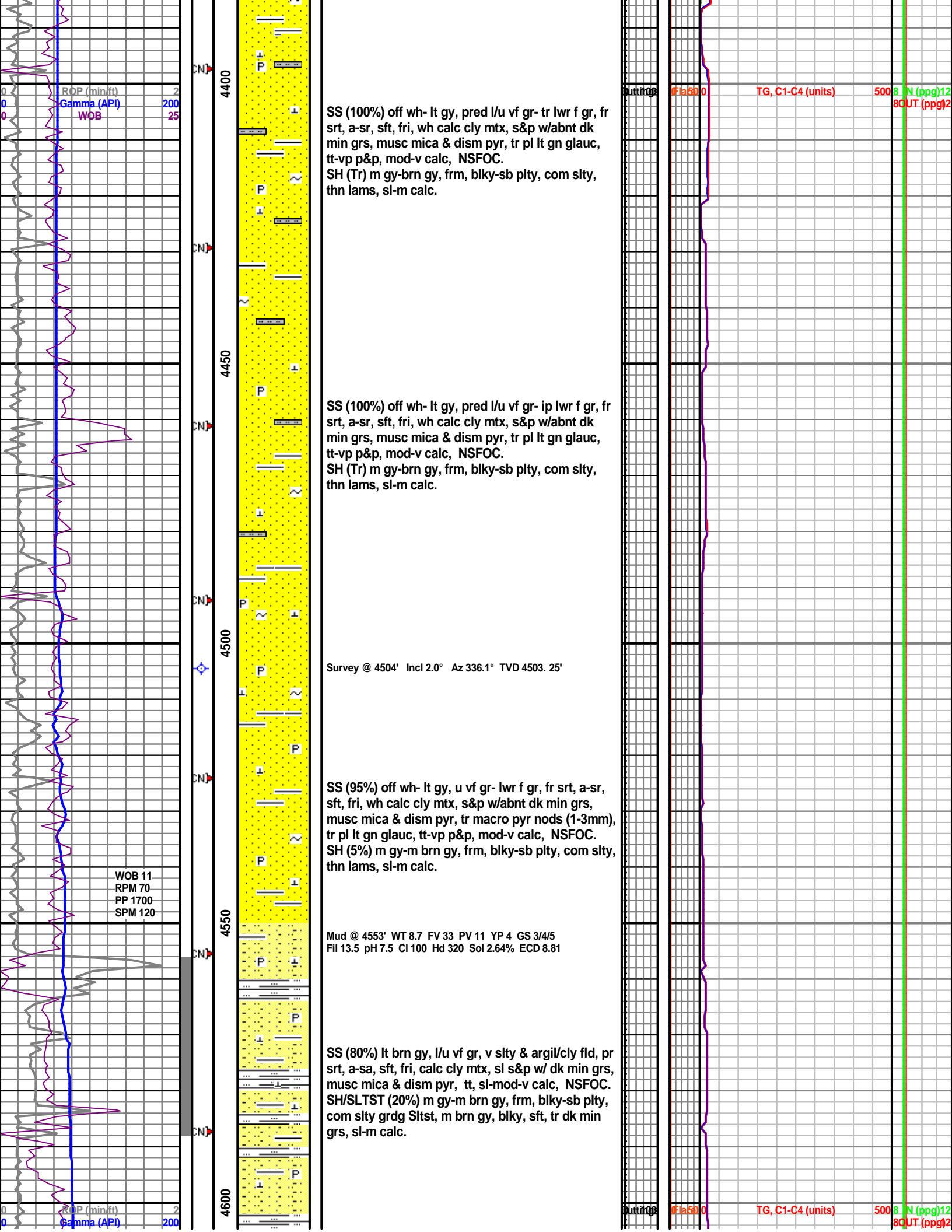
Butting

Fla

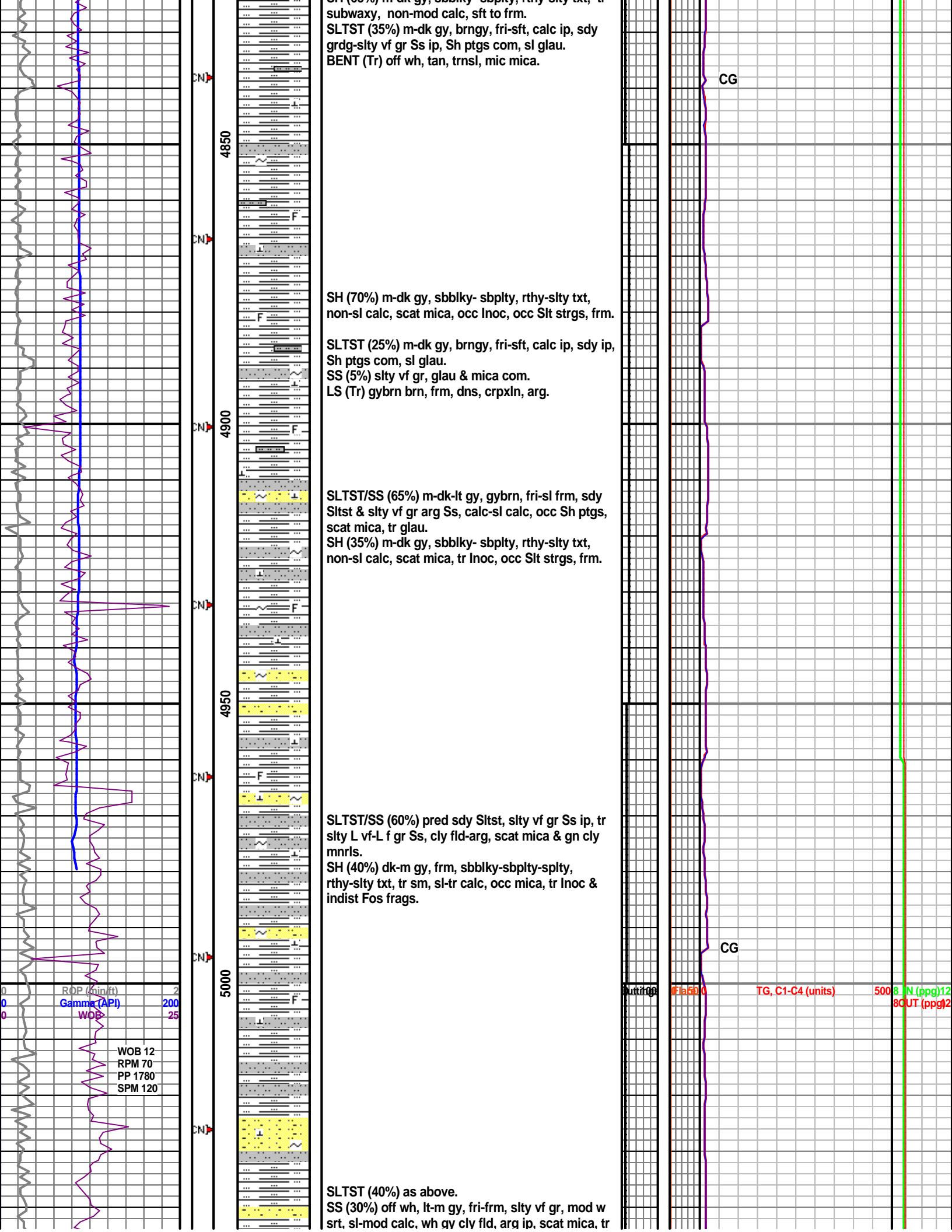
TG, C1-C4 (units)

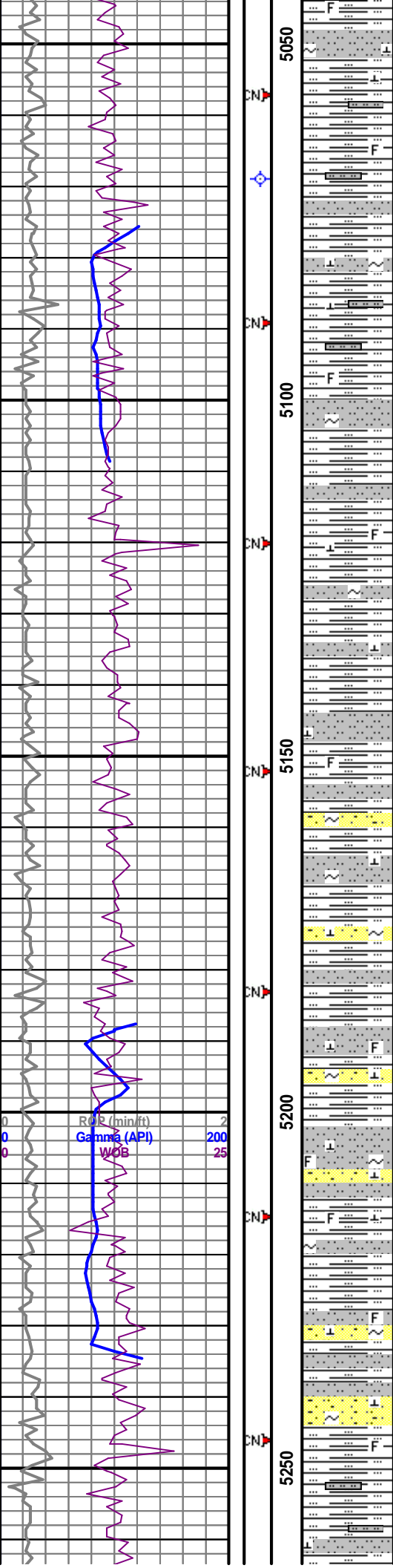
500 8 N (ppg) 12

80 UT (ppg) 2







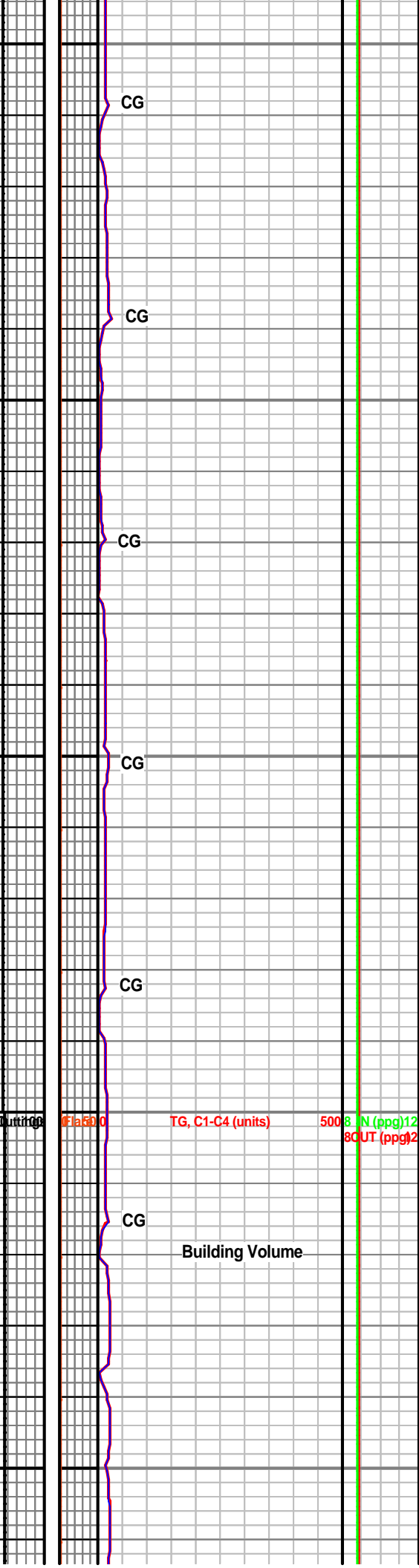


glau, NSOFC.  
SH (30%) as above.

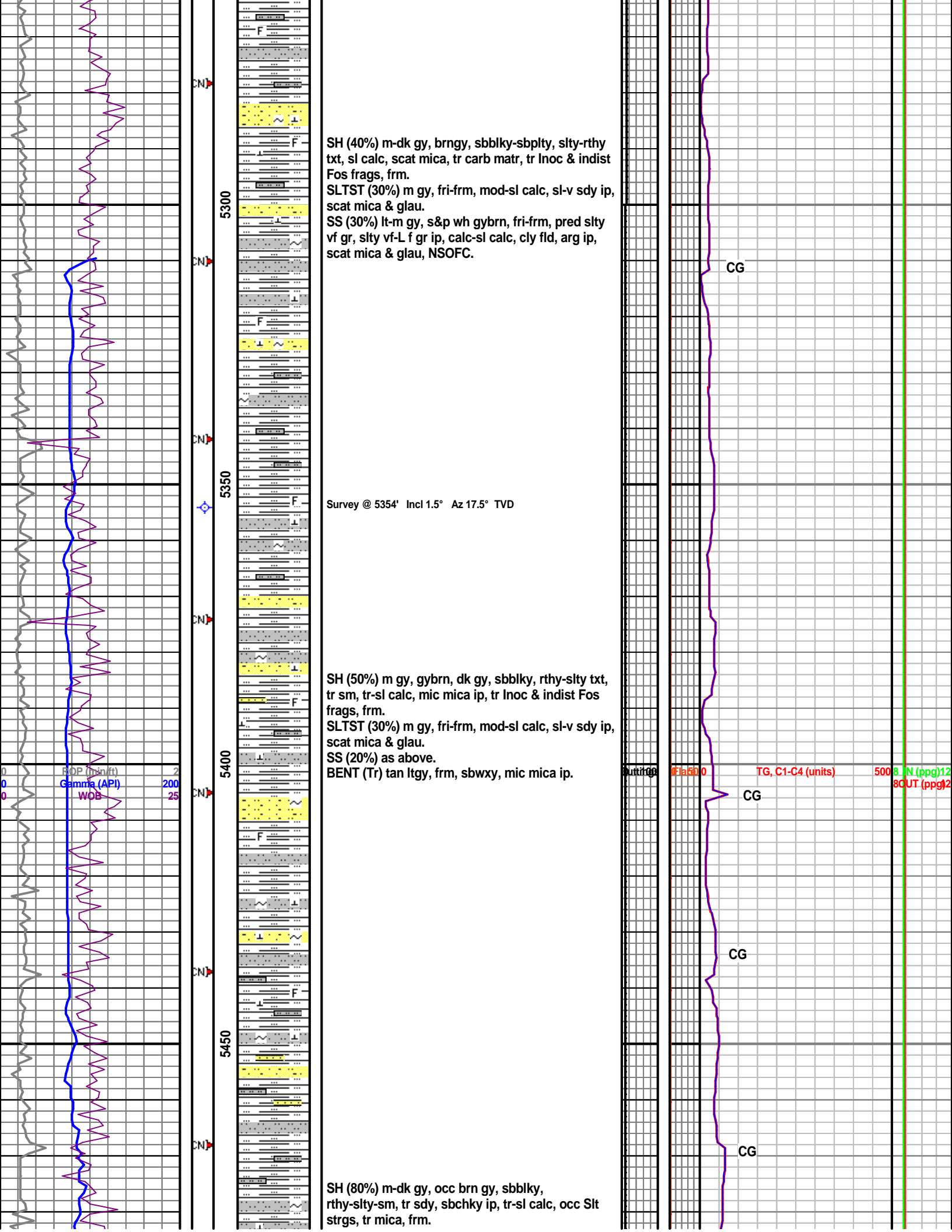
Survey @ 5069' Incl 1.3° Az 358.0° TVD 5068.07'

SH (40%) dk-mgy, sbblky-ireg-sbplty, rthy-silty txt,  
tr-sl calc, sl mica, tr Inoc & indist Fos frags, frm.  
SLTST (40%) m-lt gy, gybrn, fri-frm, sl-mod calc,  
sdy, scat mica, glau ip, Sh ptgs com.  
SS (20%).  
LS (Tr) brn, frm, dns, crp-mic xln, arg ip.

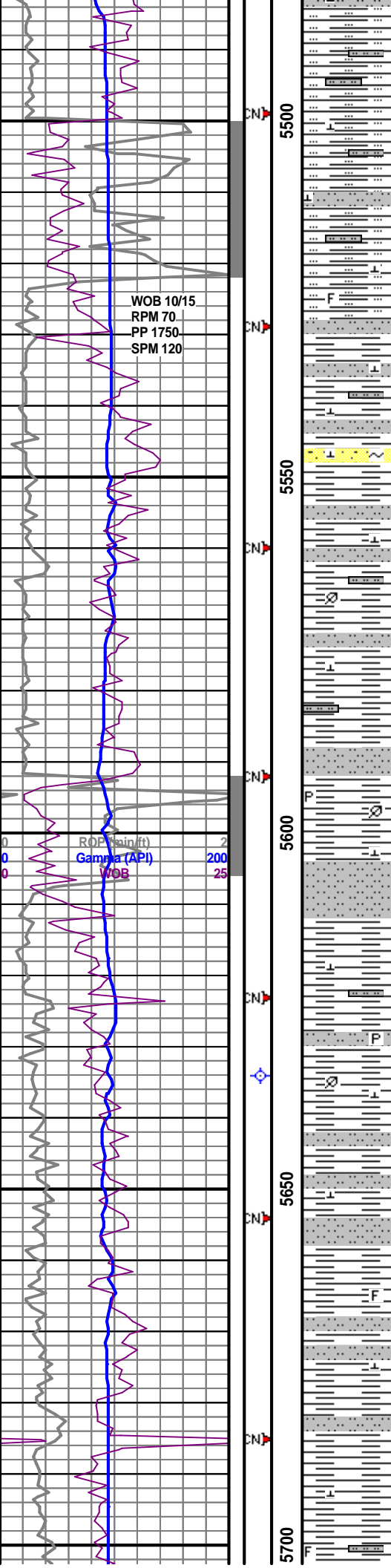
SLTST (40%) mgy gybrn, fri-frm, calc, sdy, scat  
mica & glau/gn cly mnrls, tr Fos frags.  
SS (30%) lt-m gy, wh, s&p, fri-frm, slty vf gr, calc,  
cly fld-arg, scat mica & glau.  
SH (30%) dk-m gy, sbplty-sbblky-splty, rthy-silty  
txt, sl-tr-mod calc, mica, occ Sit strgs, tr Inoc &  
indist Fos frags, frm-fri.  
LS (Tr) brn gybrn crm, mott ip, frm, dns crp-mic  
xln, arg ip, tr foss.  
BENT (Tr) offwh ltgy tan crm wh, frm, sbwxy, mic  
mica.











SLTST/SS (20%) lt-m gy, gybrn, frm-fri, Sltst/sdy  
Sltst/slty vf gr Ss, calc, cly fld, arg ip, scat mica, tr  
glau & gn cly mnrls.

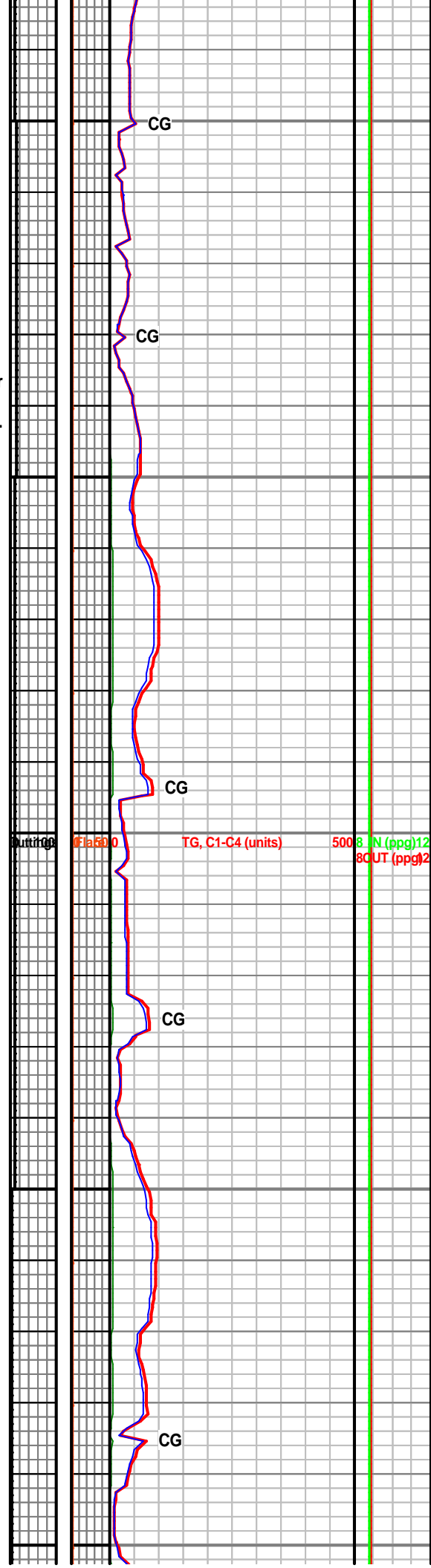
SH (70%) dk-m gy, sbblky-sbplty, rthy-slty-sm txt, sbchky ip, calc, scat mica, tr carb matr, rr Fos frags, frm.  
SLTST (25%) mgy, brngy, frm, blk, calc-sl calc, sl sdy ip, scat mica.  
SS (5%) lt-m gy, wh, frm-fri, pred slty vf gr, vf-L f gr, sbang-sbrnd, mod w srt, calc-sl calc, pred cly fld, plty ip, scat mica, tr gn cly & dk mnrls, NSOFC. BENT (Tr).

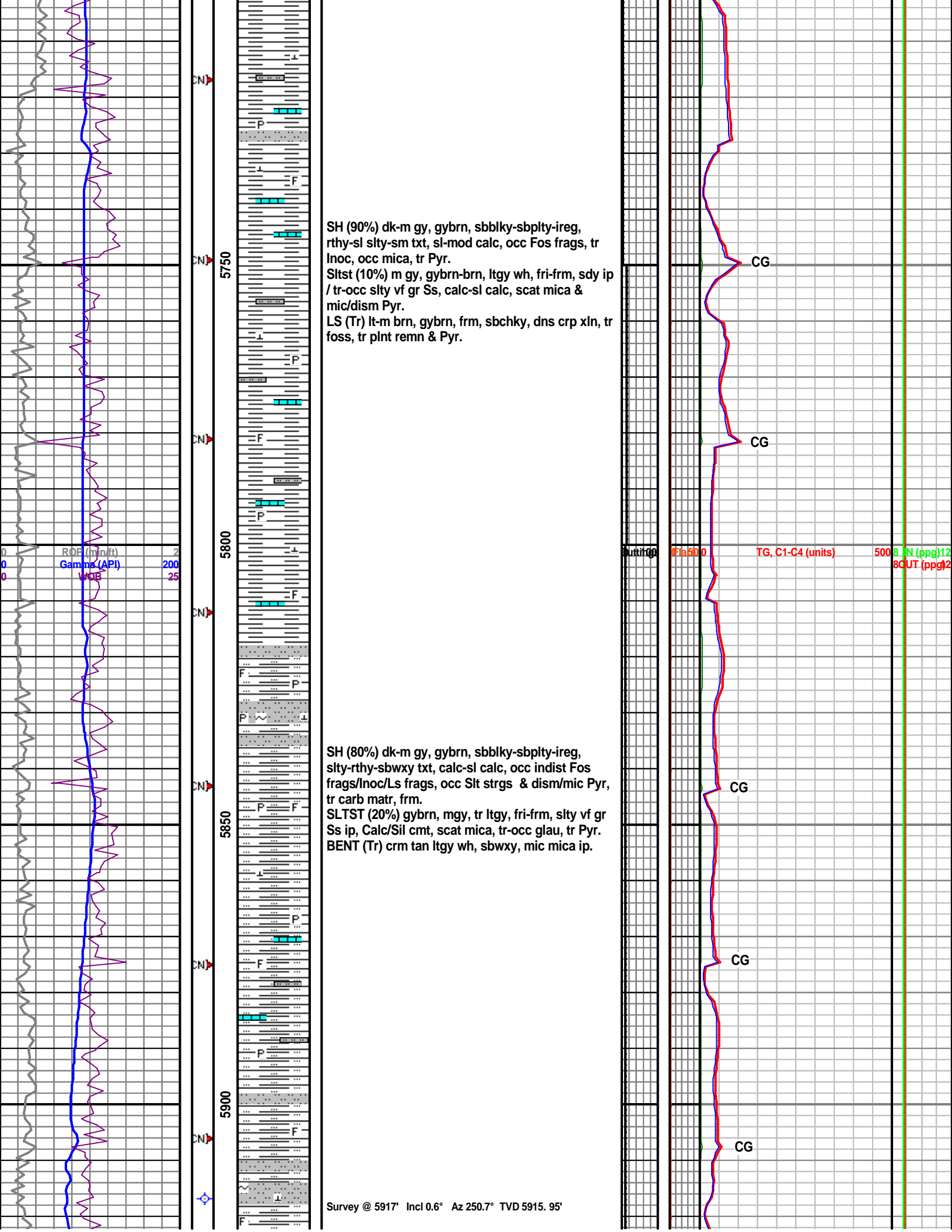
SH (80%) dk-m gy, brn gy, pred sbblky, sbplty-splty ip, slty-rthy-sm txt, sbchky ip, pred calc, sl-non calc ip, occ mica, rr plnt remn & mic Pyr, frm.

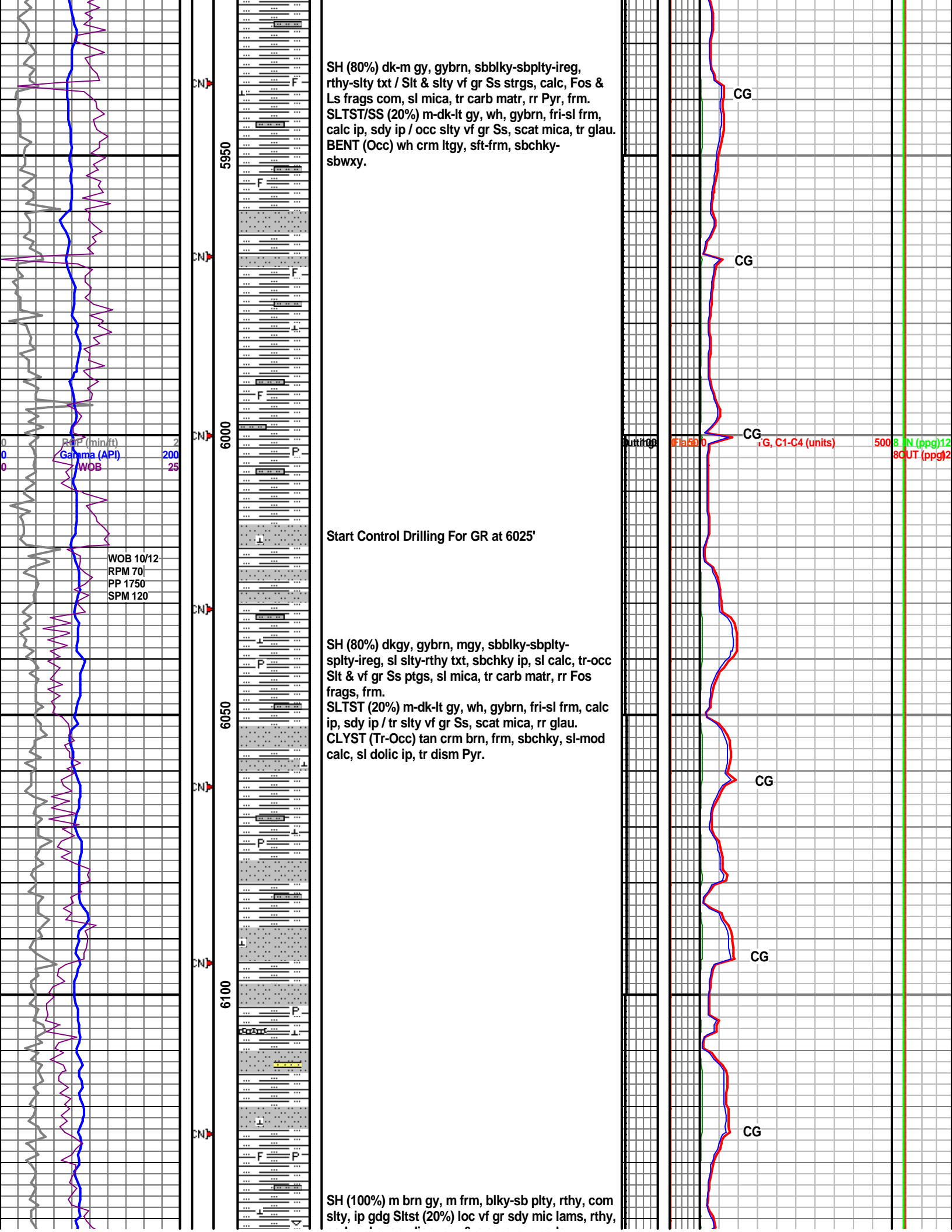
SLTST (20%) mgy, brngy, frm, blk, calc-sl calc, sl sdv ip, tr grdg-slty vf gr Ss, scat mica.

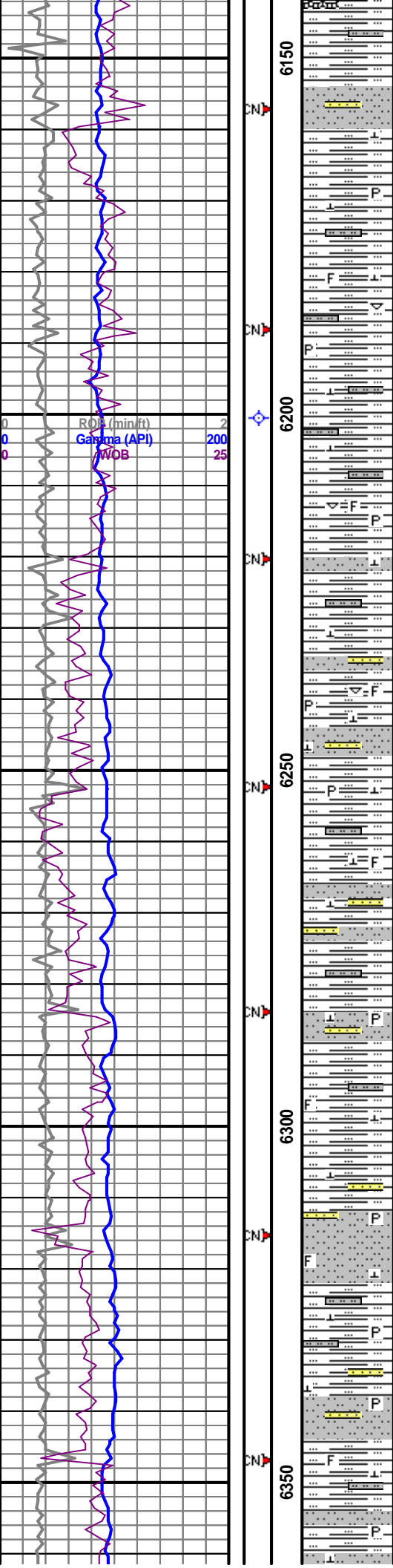
**Survey @ 5634' Incl 0.2° Az 118.9° TVD 5632.96'**

SH (90%) dk-m gy, gybrn, sbblky, sbplty-splty ip, rthy-sm-sl slty txt, calc-sl calc, occ Slt ptgs, occ mic mica, tr Fos frags.  
SLTST (10%) m gy, gybrn, fri-frm, calc ip, sdy ip.









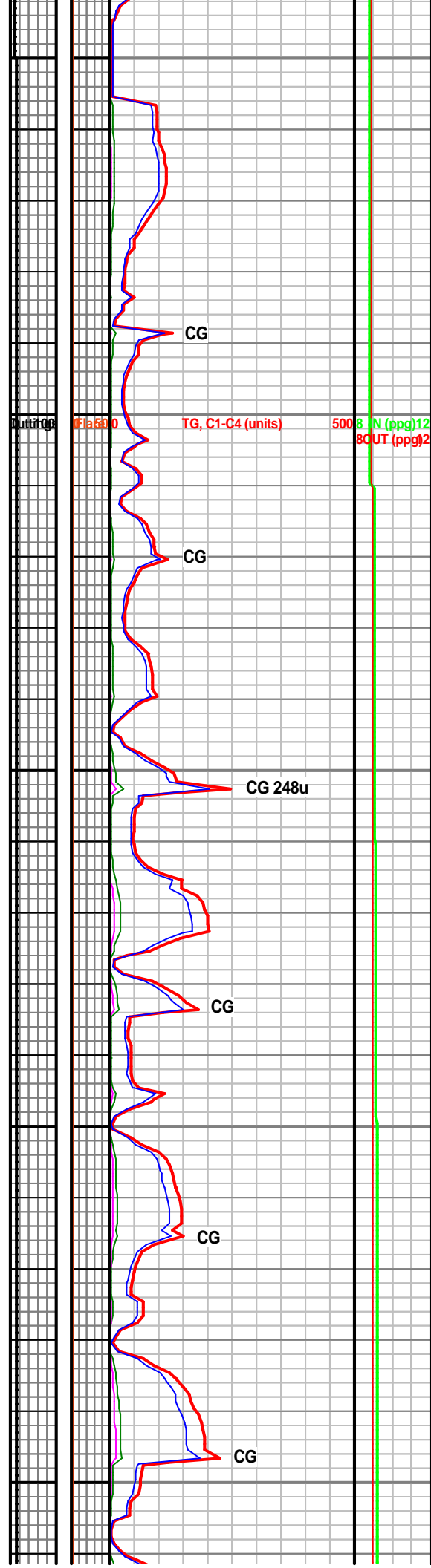
carb spks, sm dism pyr & macro pyr nods (1-3mm), com Inocer foss frags, sl- mod calc. Bent (TR) pl lt gy, sft, thn plty, mica spks, brt yl min flor.

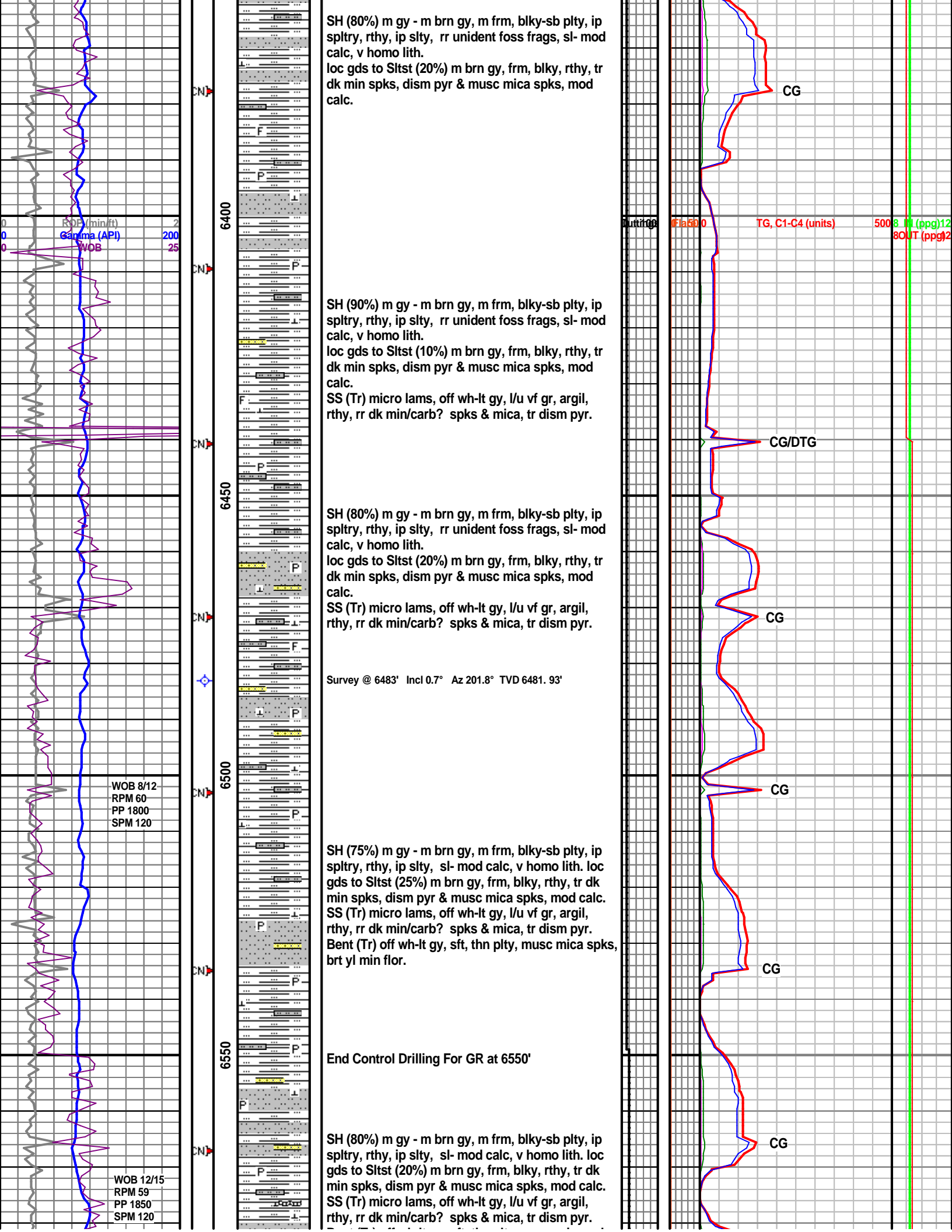
Survey @ 6200' Incl 0.4° Az 266.3° TVD 6198. 94'

SH (100%) m gy w/tr m brn gy, m frm, blk-y-sb plty, rthy, ip slty, loc gdg Slst (10%) tr vf gr sdy mic lams, rthy, rr dk min/carb? spks & mica, tr dism pyr, v homo lith, tr Inocer foss frags, sl- mod calc.

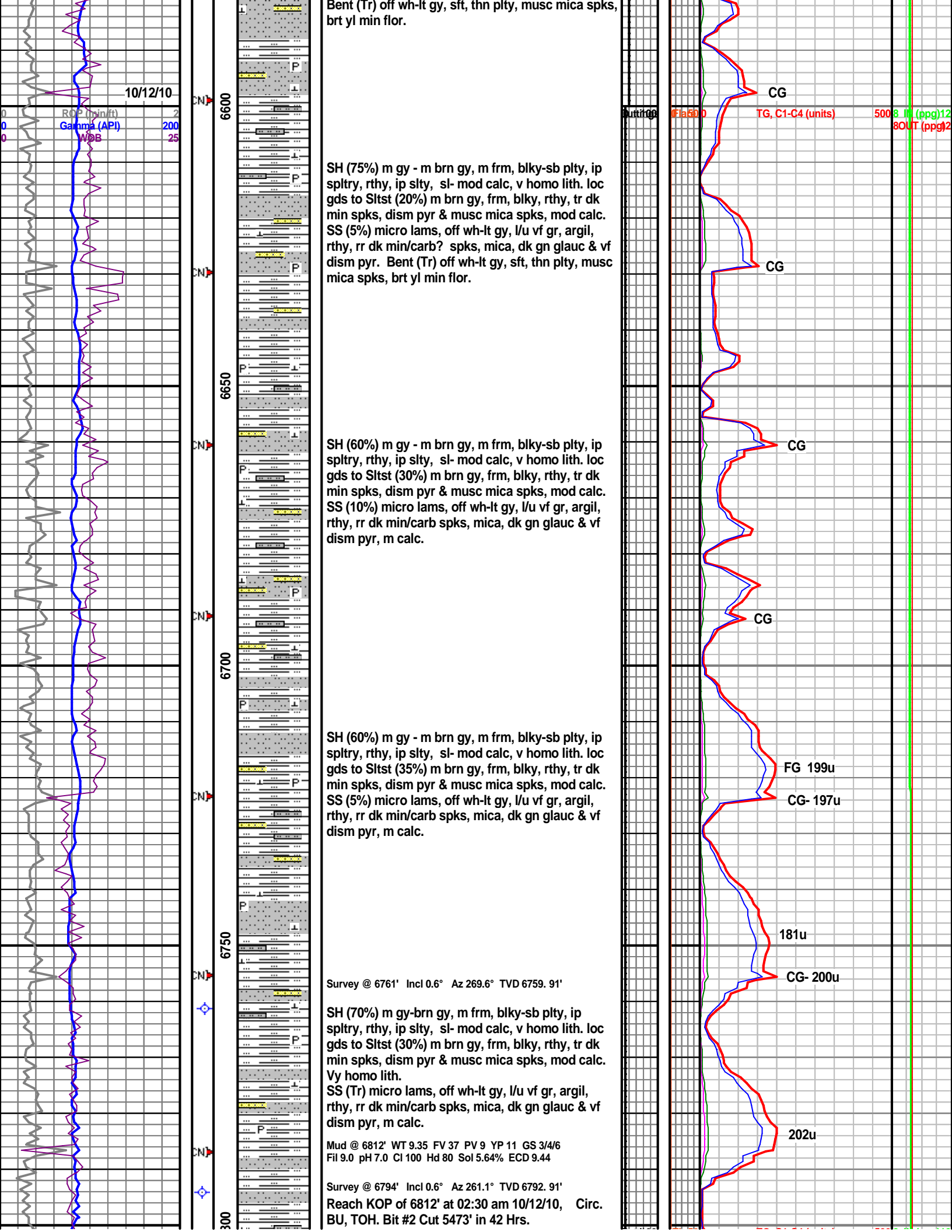
SH (90%) m gy w/tr m brn gy, m frm, blk-y-sb plty, rthy, ip slty, loc gdg to Slst (10%); tr Inocer foss frags, sl- mod calc, v homo lith; Tr SS micro lams, off wh-lt gy, l/u vf gr, argil, rthy, rr dk min/carb? spks & mica, tr dism pyr.

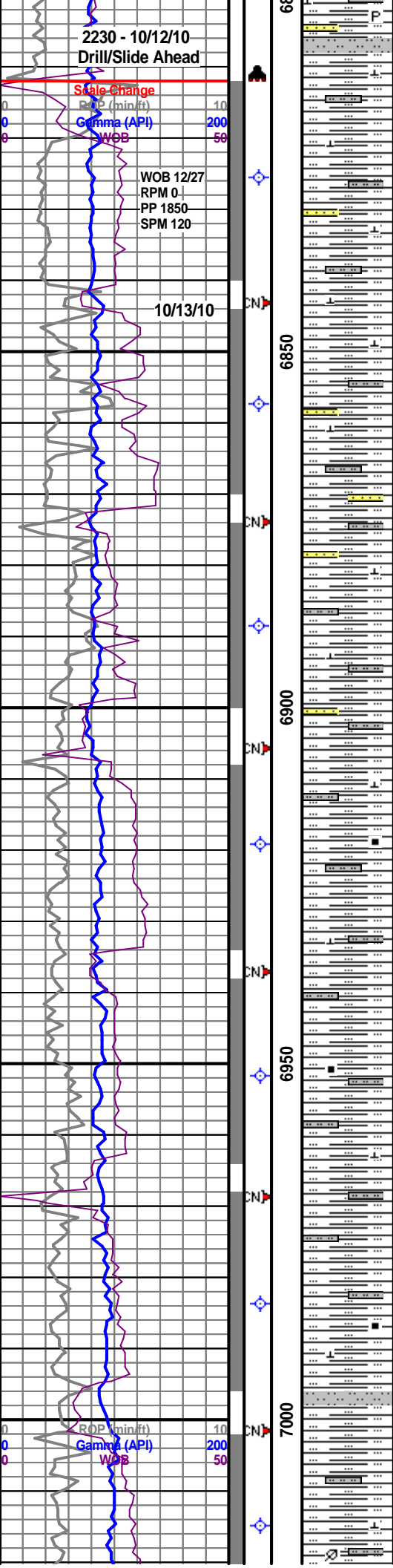
SH (75%) m gy w/tr m brn gy, m frm, blk-y-sb plty, rthy, ip slty, tr Inocer foss frags, sl- mod calc, v homo lith. loc gds to Slst (25%) m brn gy, frm, blk-y, rthy, tr dk min spks, dism pyr & musc mica spks, mod calc. Tr SS micro lams, off wh-lt gy, l/u vf gr, argil, rthy, rr dk min/carb? spks & mica, tr dism pyr.











NB #3 8 3/4" HTC GT-1 (Jets 3x20) in at 6812' w/  
MWD GR/Survey BHA & Directional Mud Motor  
(2.38°).  
Begin Horizontal Strip Log @ 6812'.

Survey @ 6825' Incl 2.6° Az 166.8° TVD 6823.90'

SH (70%) m gy-m brn gy, frm, sb plty-ip splty, rthy, com v slty  
gdg Sltst (30%) tr vf dk min & musc mica spks/inclus, sl-m calc.  
Tr SS mic lams, l/u vf gr, slty & argil/clty fld mtx, m calc.

Survey @ 6857' Incl 6.5° Az 153.2° TVD 6855.80'

SH (60%) pred m gy- sm m brngy, frm, sb plty-ip splty, rthy,  
incr slty gdg Sltst (35%) m brn gy, tr vf dk min & musc mica  
spks/inclus, sl-m calc w/ SS (5%+) mic lams, l/u vf gr, slty &  
argil/clty fld mtx, dns/ tt, m calc.

Survey @ 6888' Incl 10.5° Az 147.3° TVD 6886.45'

Mud @ 6896' WT 9.5 FV 38 PV 10 YP 13 GS 4/5/7  
Fil 7.8 pH 7.5 Cl 100 Hd 60 Sol 6.0% ECD 9.72

Survey @ 6919' Incl 14.6° Az 145.4° TVD 6916.70'

SH (80%) m-dk gy, gybrn, sbblky-sbplty-splty, pred slty,  
sm-rthy ip, sl-mod calc, scat mica & carb matr / tr carb lams,  
occ Slt & vf gr Ss strgs, frm.  
SLTST (20%) m gy, gybrn, lt gy, frm-fri, sdy ip / occ slty vf gr  
Ss, calc, arg-clty fld, scat mica & carb matr, tr glau & mic Pyr,  
NSOFC.

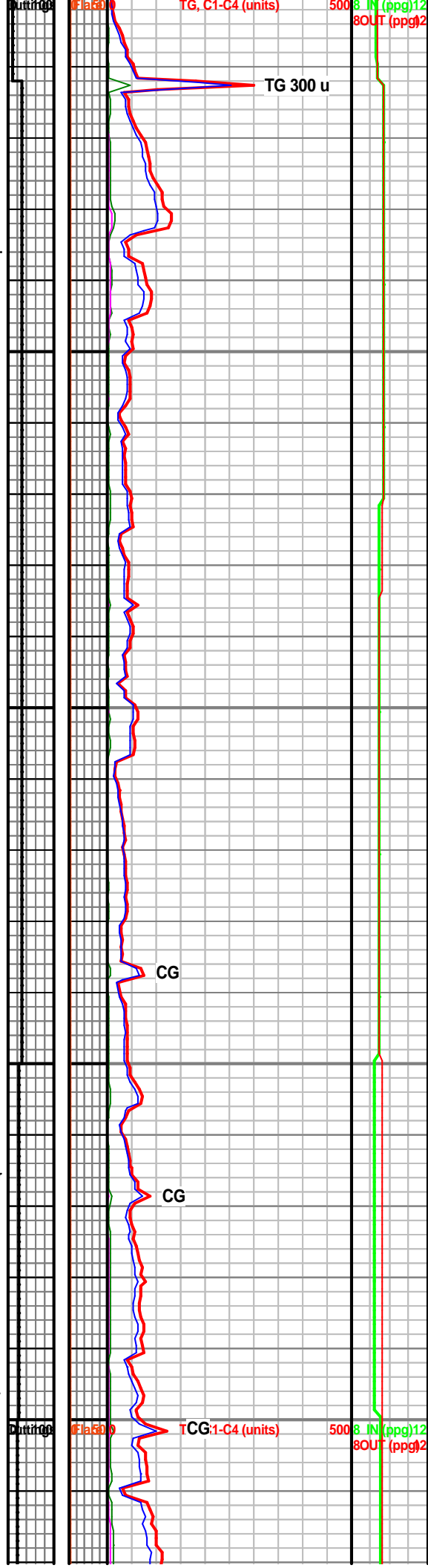
Survey @ 6952' Incl 19.3° Az 146.2° TVD 6948.26'

SH (90%) m-occ dk gy, sbblky-sbplty, rthy-slty txt, sl calc, occ  
Slt ptgs, scat mica, tr-occ carb matr, frm.  
SLTST (10%) mgy, occ ltgy gybrn, frm-fri, sl-mod calc, sdy ip, tr  
grdg-slty vf gr Ss, scat mica, tr glau, NSOFC.

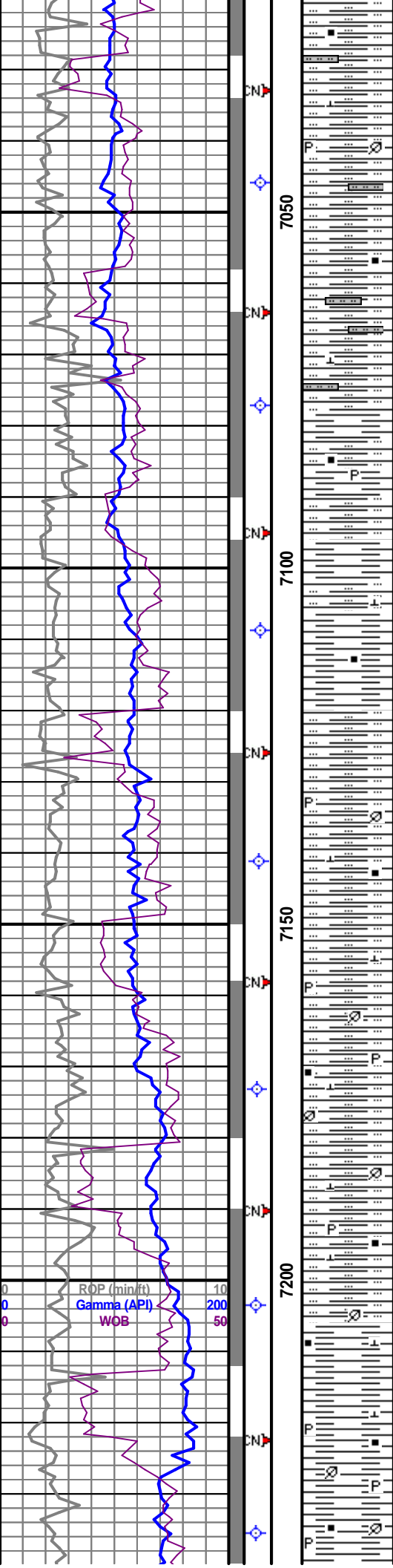
Survey @ 6984' Incl 23.8° Az 147.0° TVD 6978.02'

SH (80%) dk-m gy, gybrn, sbblky-sbplty-splty, slty- rthy txt, tr  
sdy, sl calc, mic mica, scat carb matr & plnt remn, occ Slt & Ss  
ptgs, tr-occ dism & mic Pyr, frm-v frm.  
SLTST/SS (20%) as above, cly fld-arg, scat mica & Pyr, rr L vf-L  
f gr Ss.

Survey @ 7015' Incl 27.8° Az 147.4° TVD 7005.92'







SH (85%) dk gy, occ gybrn, sbply-sply, slty-rthy-sm, sl-tr-non calc, scat mica & mic carb matr, tr-occ plnt remn, occ Slt & tr vf gr Ss ptgs, tr mic/dism Pyr, frm-v frm.  
SLTST (15%) m-lt gy, s&p, gybrn, sft-frm, sl sdy ip, calc-sl calc, arg, cly fld, scat mica & blk mnrl/carb grs, occ Sh ptgs, tr mic Pyr, NSOFC.

Survey @ 7046' Incl 32.0° Az 147.0° TVD 7032 .79' VS 12.59'

Survey @ 7077' Incl 36.3° Az 146.5° TVD 7058 .44'

SH (90%) dk-v dk-m gy, gybrn, sbblky-sbply- flky-sply, rthy-sm-sbwxy, tr-sl calc, v sl mic mica, carb ip, tr Pyr, frm-v frm.  
SLTST (10%) mgy gybrn s&p, fri, calc ip, sdy ip, tr grdg-slty vf gr Ss strgs, scat mica & carb matr.

Survey @ 7109' Incl 40.2° Az 144.9° TVD 7083 .56' VS 49.02'

SH (90%) dk-m gy, gybrn, sbply-pty-sply, rthy-sl slty txt, sl calc, mic mica, scat mic carb matr, tr plnt remn & mism/mic tr-occ Slt ptgs, Pyr, frm.  
SLTST (10%) as above.  
BENT (Rare) tan crm, sbwxy, mic mica ip.

Survey @ 7141' Incl 44.1° Az 143.0° TVD 7107 .28'

Start 30' Samples.

SH (100%) bcmg pred dk brn gy, frm, blk-pty, ip sply, rthy, com slty w/ Tr Sltst lams, tr vf carb/plnt foss debr & vf mism pyr, v sl calc, v homo lith.

Survey @ 7173' Incl 47.7° Az 141.7° TVD 7129 .55' VS 92.96'

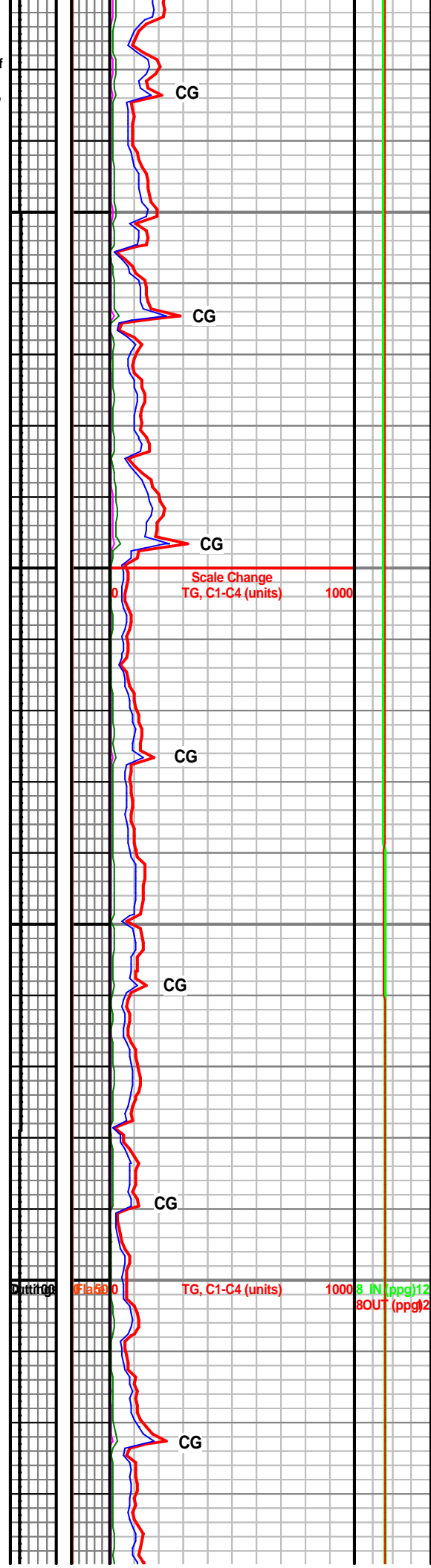
SH (100%) dk gy-pred dk brn gy, frm, blk-pty, ip sply, rthy, com slty w/ Tr Sltst lam, tr vf carb/plnt foss debr & vf mism pyr, sl calc, homo lith.

Survey @ 7203' Incl 51.6° Az 140.8° TVD 7148 .97'

Sharon Springs -7206' MD, 7151' TVD (-1910)

SH (100%) v dk gy-dk brn gy, frm-m hd, pty, sply, rthy, rr sl slty, tr vf carb/plnt foss debr & vf mism pyr, tr pyr macro nods (0.5-2mm), non-sl calc. Bent (Tr-2%) pl lt gn & tn, thn pty, m mica, brt yl min flor.

Survey @ 7235' Incl 55.4° Az 140.2° TVD 7168 .00' VS 141.24'





SH (95%) v dk gy-dk brn gy, frm-m hd, plty, splty, rthy, m gran txt, rr sl slty, tr vf carb/plnt foss depr, trvf dism pyr& pyr macro nods (1-3mm), non-sl calc. Bent (5%) pl lt gn & tn, thn plty, m mica, brt yl min flor.

**Survey @ 7267' Incl 59.1° Az 140.0° TVD 7185 .31'**

**Niobrara- 7290' MD, 7196' TVD (-1955)**

**MRLST (40%)** m brn gy-gy brn, mttld lt brn, m frm, blk-y-sb plty, pred rthy-ip sb wxy, argil & chky, v calc, no vis flor, pr slow mlky-slw strmg yelwh cut, wk yl ring flor.  
**SH (60%)** dk gy-dk brn gy, frm-hd, A/A.

Survey @ 7298' Incl 62.9° Az 140.0° TVD 7200 .34'  
VS 195.0'

SH (50%) v dk gy, frm-hd, brit, plty, splty/fiss, rthy, slty txt, tr blk carb spks & plnt foss frags, vf dism pyr, non-v sl calc, no vis str or flr, slow stss cut.

MRLST (50%) m brn gy-gy brn, mttld lt brn, m frm, bkly-sb plty, pred rthy-ip sb wxy, argil & chky, v calc, no vis flor, pr slow mrlty-sls strbm yelwh cut, wkly y ring flor.

**Survey @ 7330' Incl 66.5° Az 140.2° TVD 7214 .01'**

**'B1' Chalk- 7331' MD, 7214' TVD (-1973)**

SH (70%) dkgy, occ mggy gybrn, sbplty-splty-sbbkly, rthy-sl slty txy  
slt, sbchky ipy, mod-v calc, marly ip, sl-mod carb, tr Pyr, pred  
frm-brit, sft ip, NSOF, slow strmg wh cut, mod vly resd ring.  
MRLST (30%) brn gybrn-brn mggy, frm, bkly, 40-60% cly mtx,  
scat mica & carb matr, slty ip, tr sdy, NSOF, slow-strmg strmg wh  
cuts, mod vly resd ring.

SH (60%) v dk-m gy, sbplty-splty-blky-ireg, rthy-sl slty txt,  
mod-v calc, carb ip / abnt plnt remn ip, tr Pyr, sl-v marly grgd to  
MRLST (40%) m-dk gy, gybrn, frm, blky-sbplty, sbchky, occ tan  
crl incl, slty ip, tr Pyr, NSOF / slow-fast strmg wh cuts, mod  
yel resd ring.

**TOH 6 Stds; 15 Hr Riq Repair @ 7393'- Clutch**

Survey @ 7394' Incl 72.1° Az 140.2° TVD 7236 .31'

MRLST (80%) m-dk brn gy- gybrn, frm, blkly, rthy, ip mttld w/ ltr  
brn inclus, chky, hi argil/cly cont, mic gran txt, spty fnt yl flor,  
imed slw strng cut, brt yl resid ring flor. SH (20%) dk gy,  
frm, sb plty, rthy, slty gran txt, carb, blk resid oil stn?, no flor, fr  
slw strma cut & resid yl ring flor.

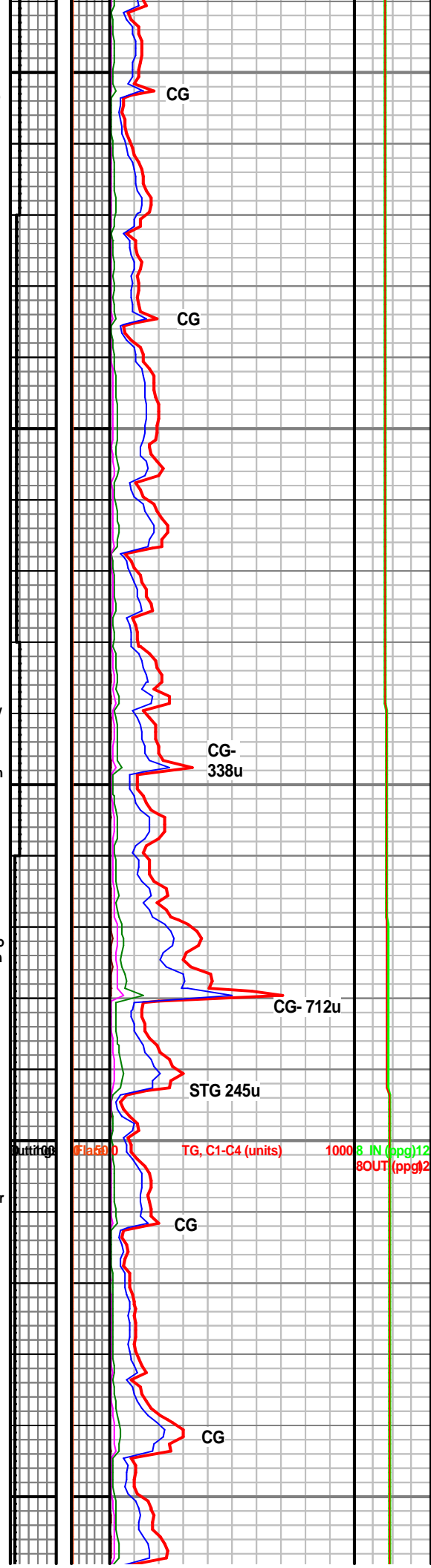
Survey @ 7425' Incl 75.0° Az 140.1° TVD 7245 .09'  
VS 313.05'

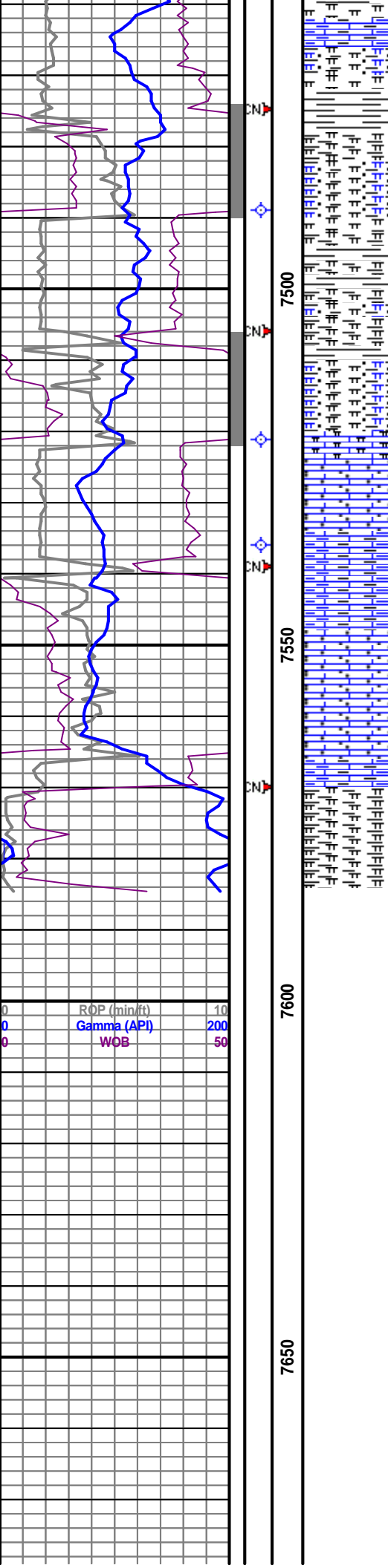
CHKY MRLST (90%) m-dk brn gy- gybrn, frm, blk, rth, ip  
mtld w/ ltr brn inclus, chky, hi argil/cly cont, mic gran txt, spty  
fnt yf flr, imed slw strng cut, brt yl resid ring flr.  
MRLY CHK (10%) m-dk gy brn mltld ltr gybrn, frm,  
blk, rth-sbwxy, slty txt, mic lam, fnt yf flr, fr slw strng cut  
flr. brt yl resid ring flr.

Mud @ 7443' WT 9.9 FV 42 PV 17 YP 16 GS 5/19/27 Fil 7.0  
pH 7.5 Cl 100 Hd 60 Sol 8.14% ECD 10.16

Survey @ 7457' Incl 76.5° Az 140.1° TVD 7252.96'

**Chalk - 7164' MD 7252' TV/D (-2012)**





B Chalk- 7461' MD, 7253' TVD (-2012)  
SH (50%) v dkgy, blk, sbply-sply-ireg, pred rthy txt, sm-sbvit ip, calc-v calc, marly ip, carb ip, tr Fos frags, NSOF, slow strmg yelwh cuts.  
MRLST (40%) gybrn dkgy brn, brit-frm, blk, sbchky ip, carb ip, NSOF, slow-fast strmg cuts, brt resd ring.  
CHK (10%) gybrn-brn, frm-brit, grny, pred arg, marly ip, NSOF, slow-fast strmg yelwh cuts.

Survey @ 7489' Incl 78.5° Az 138.5° TVD 7259 .89'  
VS 375.05'  
MRLST (70%) m-dkgy gybrn, occ ltgy tan, frm, blk, sbchky ip, tr v chky, tr-occ carb matr, no vis stn, occ v spty yelgld flor, slow-fast strmg cuts, brt-mod yel resd ring.  
SH (30%) pred m gy, mic mica ip, sl-mod carb, tr v carb as above.

Survey @ 7521' Incl 80.6° Az 136.7° TVD 7265 .69'  
MRLST (40%) dk-m-lt gy, brn, mott ip, frm-brit, arg, sl-mod carb ip, tr xln Calc, NSO, occ spty yelgld flor, slow-fast strmg yelwh cuts.  
SH (35%) dk-v dkgy, blk, frm, blk-sbply-sply, rthy-sm, calc, carb ip, marly ip, tr Fos frags, NSOF, slow strmg cuts.  
CHK (25%) m-lt gy, brn, sft-frm-brit, grny, pred arg, tr xln Calc, occ dkgy stks & lams, NSO, occ spty yel flor, slow-fast strmg yelwh cuts, mod resd ring.

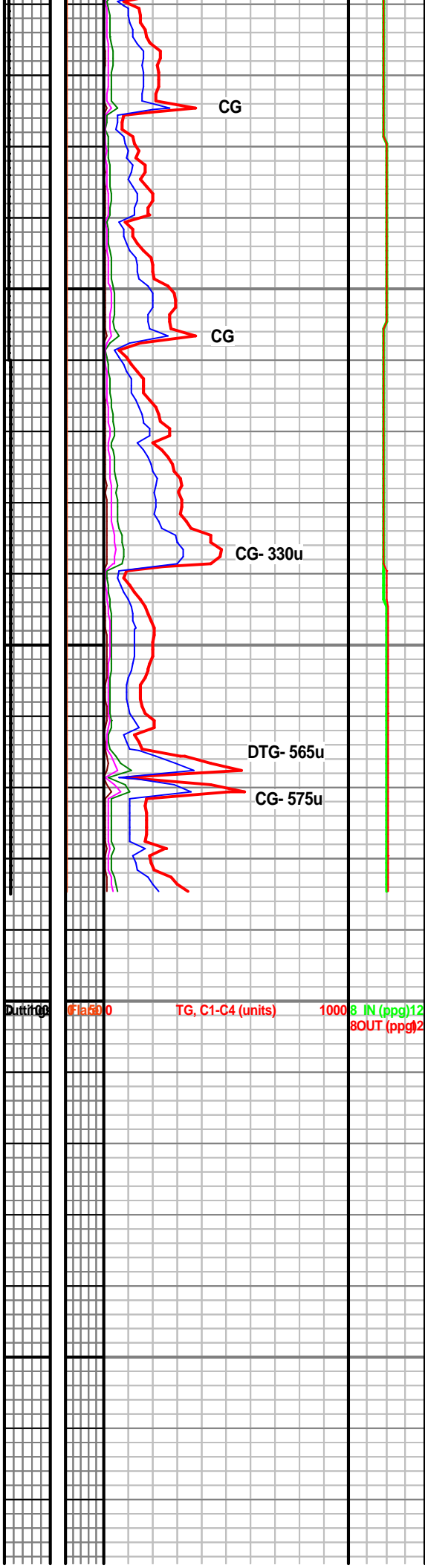
Survey @ 7536' Incl 80.8° Az 136.8° TVD 7268 .12'  
CHALK (40%) lt-m gy, brngy, brit-frm, blk-sbply-sply, rthy-grny txt, arg ip, sl marly ip, tr lse xln Calc, no odor, tr patchy brn o stn, spty fnt yelgld flor, fast-imed strmg yelwh cuts, brt yel resd ring.  
MRLST (35%) dk-m-lt gy, brn, mott ip, frm-brit, arg, sl-mod carb ip, tr xln Calc, NSO, occ spty yelgld flor, slow-fast strmg yelwh cuts.  
SH (25%) dk-v dkgy, blk, frm, blk-sbply-sply, rthy-sm, calc, carb ip, marly ip, tr Fos frags, NSOF, slow strmg cuts..

Landing Pt. - 7585' MD Reached at 12:00 10/15/10.  
Bit #3 Cut 773' in 46 Hrs. Short Trip, TOH LDDP, Run & Cmt. 7" Csg., PU 4" DP & Drill 6" Horizontal Hole to TD.

Log Data Continues on associated Horizontal Log:  
11n63w\_sec27nwnw\_Critter Creek 22-27H.h16

Formation Sample Tops:  
Terry/Sussex SS- 3448' (+1793)  
Hygiene/Shannon SS- 4083' (+1158)  
KOP- 6812' (-1571)  
Sharon Springs- 7206' MD, 7151' TVD (-1910)  
Niobrara- 7290' MD, 7196' TVD (-1955)  
'B1' Chalk- 7331' MD, 7214' TVD (-1973)  
'B' Chalk- 7461' MD, 7253' TVD (-2012)  
Landing Point- 7585' MD, 7274' TVD

Thank You!  
Mike Dodge and Robert Nordeck



**Goolsby Brothers &  
Associates, Inc.**

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