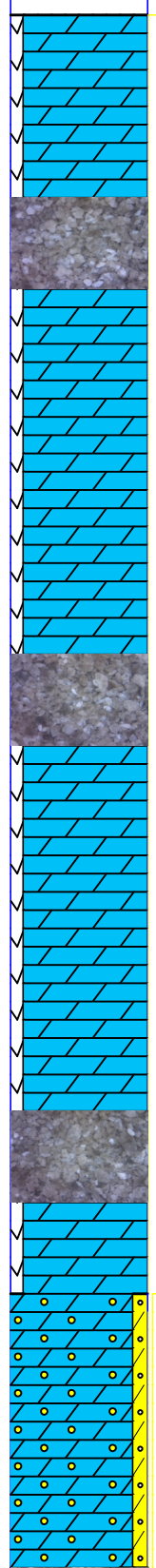


4000 WOB 31.0
RPM 84
PP 1384
SPM 63/65
150
GAMMA
WOB k1b
25 200 100
WT IN 10
WT OUT 10
VIS 29
PH 9.5
SOL 1.2



MUDLOGGERS ON LOC.
4/5/2017

RIGGED UP AGITATOR, RAN
GAS LINES, CALIBRATED
CHROMAT, & TESTED GAS
LINES.

READY TO COMMENCE 2 MAN
LOGGING.

R. SPARGO TOUR 4/5/2017

BIT#: 4
SIZE: 8.5"
MFG: HUGHES
TYPE: DP506X
SERIAL#: 7151744
JETS: 6X16
DEPTH IN: 3495'

ANHY: TRANSL FRSTY OPAQ,
V/FXLN, SUBBLKY, CLN,
FRI TO FRM, SLI SMTH
TXT, NO VIS POR, NO
STN, 30% BRI YEL FLOR,
30% PA YEL O FLOR, TR
WET CUT W/FNT YELSH TNT,
BRI GRNSH/YEL BRKN RES
RNG, FNT GRNSH/YEL STN.

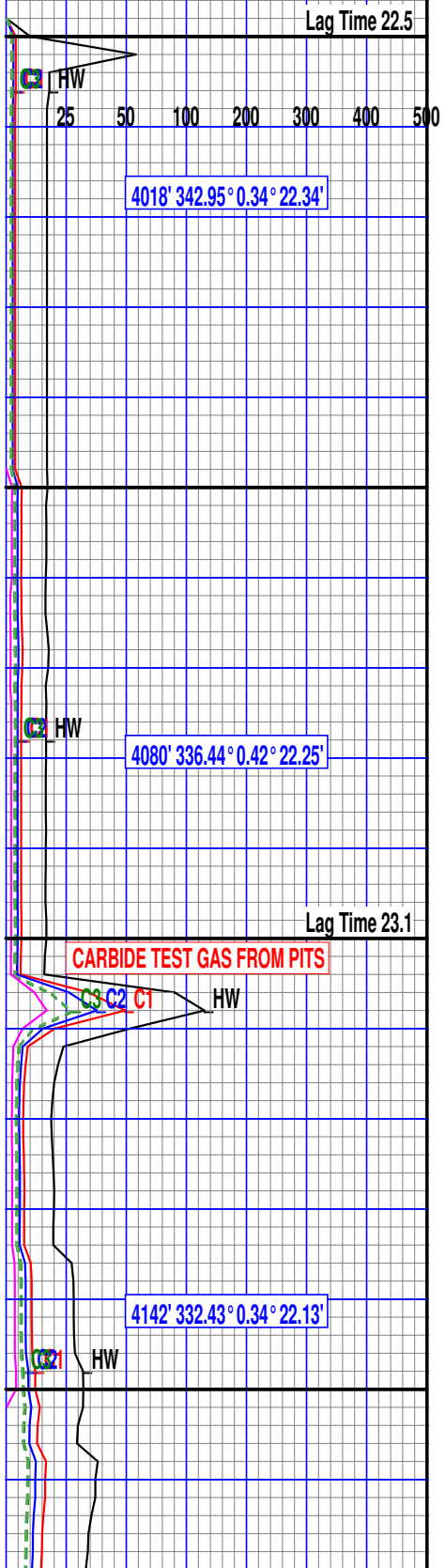
DOL: CRM BGE TN LTBN
OFFWHT WHT, BLKY TO
SUBBLKY, SLI GRTY TO SLI
RGH TXT, FRM TO BRIT,
MICROXLN FRMWRK, PREDOM
SILC, NO VIS POR, NO
STN, 30% BRI YEL FLOR,
30% PA YEL O FLOR, TR
WET CUT W/FNT YELSH TNT,
BRI GRNSH/YEL BRKN RES
RNG, FNT GRNSH/YEL STN.

ANHY: TRANSL FRSTY OPAQ,
V/FXLN, SUBBLKY, CLN,
FRI TO FRM, SLI SMTH
TXT, NO VIS POR, NO
STN, 30% BRI YEL FLOR,
30% PA YEL O FLOR, TR
WET CUT W/FNT YELSH TNT,
BRI GRNSH/YEL BRKN RES
RNG, FNT GRNSH/YEL STN.

DOL: CRM BGE TN LTBN
OFFWHT WHT, BLKY TO
SUBBLKY, SLI GRTY TO SLI
RGH TXT, FRM TO BRIT,
MICROXLN FRMWRK, PREDOM
SILC, NO VIS POR, NO
STN, 30% BRI YEL FLOR,
30% PA YEL O FLOR, TR
WET CUT W/FNT YELSH TNT,
BRI GRNSH/YEL BRKN RES
RNG, FNT GRNSH/YEL STN.

SS: BN LTBN BGE TN, V/F
GRN, SUBRND TO SUBANG,
PREDOM MOD CONS, DOLO
CMT, W SRTD, PREDOM
SILC, TT POR, NO STN,
30% BRI YEL FLOR, 10% PA
YEL O FLOR, TR WET CUT
W/FNT YELSH TNT, BRI
GRNSH/YEL BRKN RES
RNG, FNT GRNSH/YEL STN.

SH: GY MEDGY GYSHBN,
SUBBLKY TO BLKY, F TO
SLI GRTY TXT, SFT TO
FRI TO FRM, NON CARB,
PREDOM SILC, 30% BRI YEL
FLOR, 10% PA YEL O FLOR,
TR WET CUT W/FNT YELSH
TNT, BRI GRNSH/YEL BRKN
RES, RNG, FNT GRNSH/YEL
STN.



4018' 342.95° 0.34° 22.34'

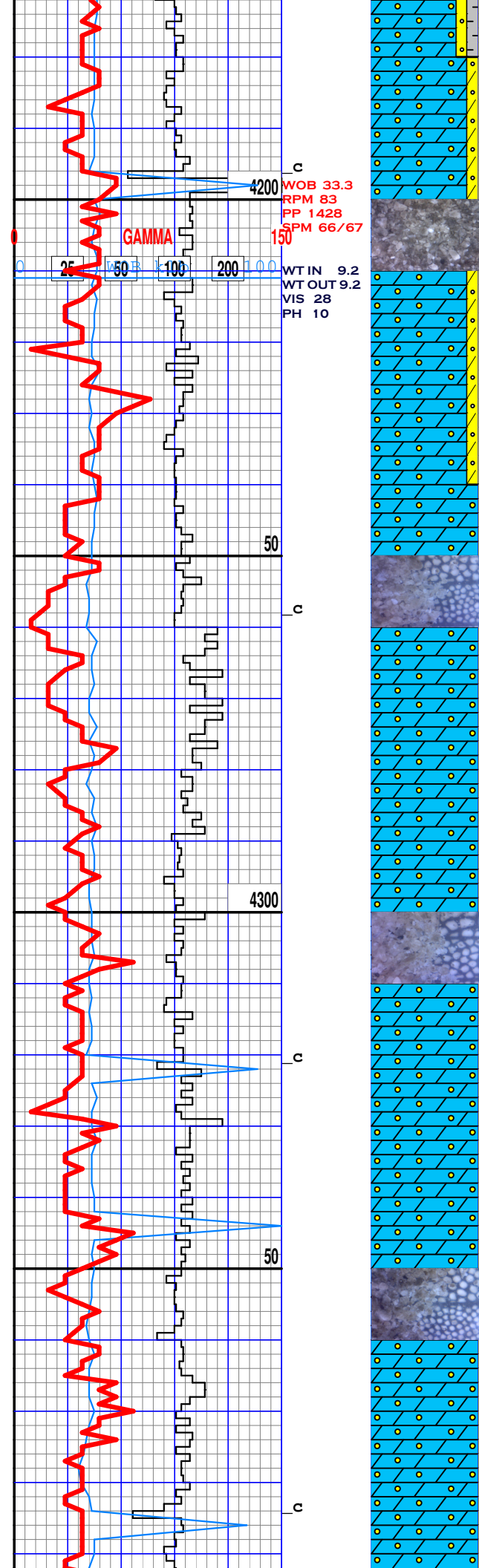
4080' 336.44° 0.42° 22.25'

4142' 332.43° 0.34° 22.13'

CARBIDE TEST GAS FROM PITS

Lag Time 22.5

Lag Time 23.1



WOB 33.3
RPM 83
PP 1428
SPM 66/67

WTIN 9.2
WTOUT 9.2
VIS 28
PH 10

DOL: BN LTBN TN BGE CRM
OFFWHT WHT, BLKY TO
SUBBLKY, SLI GRTY TO SLI
RGH TXT, FRM TO BRIT,
MICROXLN-AREN FRMWRK,
PREDOM SILC, NO VIS POR,
NO STN, 30% BRI YEL
FLOR, 10% PA YEL O FLOR,
TR WET CUT W/FNT YELSH
TNT, BRI GRNSH/YEL BRKN
RES RNG, FNT GRNSH/YEL
STN.

SS: BN LTBN BGE TN, V/F
GRN, SUBRND TO SUBANG,
PREDOM MOD CONS, DOLO
CMT, W SRTD, PREDOM
SILC, TT POR, NO STN,
30% BRI YEL FLOR, 10% PA
YEL O FLOR, TR WET CUT
W/FNT YELSH TNT, BRI
GRNSH/YEL BRKN RES RNG,
FNT GRNSH/YEL STN.

DOL: BN LTBN TN BGE CRM
OFFWHT WHT, SUBBLKY TO
BLKY, SLI GRTY TO SLI
RGH TXT, FRM TO BRIT,
MICROXLN-AREN FRMWRK,
PREDOM SILC, NO VIS POR,
NO STN, 10% BRI YEL
FLOR, 30% PA YEL O FLOR,
TR WET CUT W/FNT YELSH
TNT, BRI GRNSH/YEL BRKN
RES RNG, FNT GRNSH/YEL
STN.

DOL: BN LTBN TN BGE CRM
OFFWHT WHT, SUBBLKY TO
BLKY, SLI GRTY TO SLI
RGH TXT, FRM TO BRIT,
MICROXLN-AREN FRMWRK,
PREDOM SILC, TR SLI
CALC, TR IMBD LS, NO VIS
POR, NO STN, 10% BRI YEL
FLOR, 20% PA YEL O FLOR,
TR WET CUT W/FNT YELSH
TNT, BRI YEL BRKN RES
RNG, FNT GRNSH/YEL STN.

DOL: BN LTBN TN BGE CRM
OFFWHT WHT, SUBBLKY TO
BLKY, SLI GRTY TO SLI
RGH TXT, FRM TO BRIT,
MICROXLN-AREN FRMWRK,
PREDOM SILC, TR SLI
CALC, TR IMBD LS, NO VIS
POR, NO STN, 10% BRI YEL
FLOR, 20% PA YEL O FLOR,
TR WET CUT W/FNT YELSH
TNT, BRI YEL BRKN RES
RNG, FNT GRNSH/YEL STN.

DOL: BN LTBN TN BGE CRM
OFFWHT WHT, SUBBLKY TO
BLKY, SLI GRTY TO SLI
RGH TXT, FRM TO BRIT,
MICROXLN-AREN FRMWRK,
PREDOM SILC, TR SLI
CALC, TR IMBD LS, NO VIS
POR, NO STN, 10% BRI YEL
FLOR, 20% PA YEL O FLOR,
TR WET CUT W/FNT YELSH
TNT, BRI YEL BRKN RES
RNG, FNT GRNSH/YEL STN.

DOL: BN LTBN TN BGE CRM
OFFWHT WHT, SUBBLKY TO
BLKY, SLI GRTY TO SLI
RGH TXT, FRM TO BRIT,
MICROXLN-AREN FRMWRK,
PREDOM SILC, TR SLI
CALC, TR IMBD LS, NO VIS
POR, NO STN, 10% BRI YEL
FLOR, 20% PA YEL O FLOR,
TR WET CUT W/FNT YELSH
TNT, BRI YEL BRKN RES
RNG, V/FNT GRNSH/YEL
STN.

DOL: BN LTBN TN BGE CRM.

Lag Time 23.6

4204' 329.92° 0.39° 21.99'

25 50 100 200 300 400 500

C2 HW

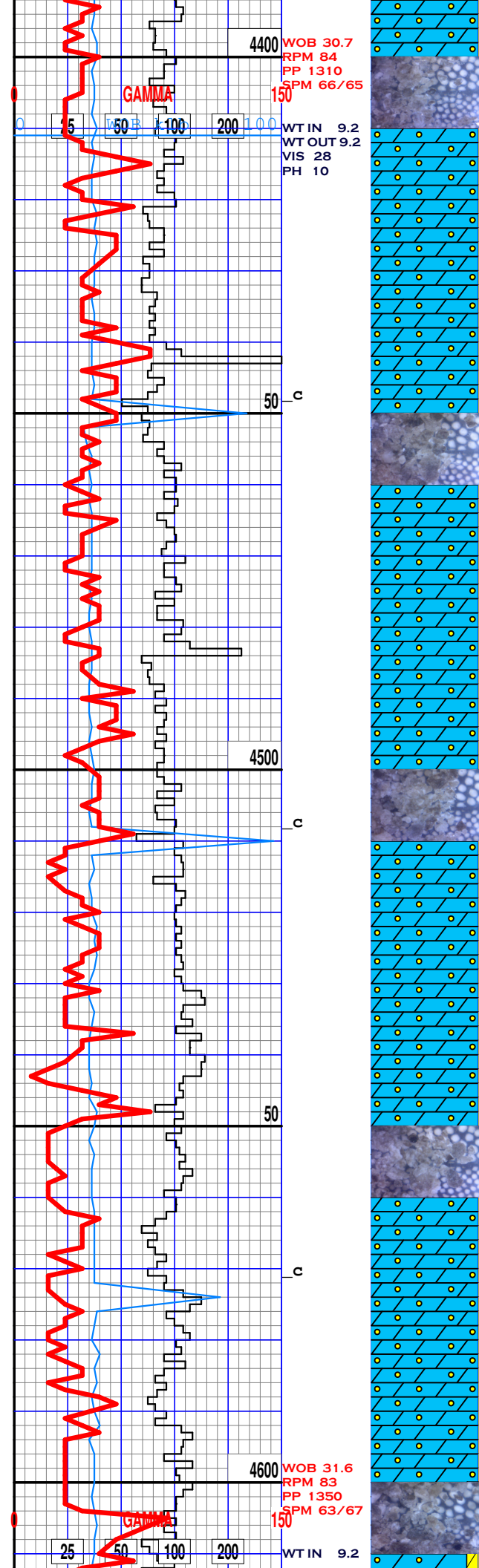
4267' 329.06° 0.32° 21.84'

C2 HW

Lag Time 24.2

4330' 324.60° 0.30° 21.69'

C2 HW



SUBBLKY TO BLKY, SLI GRTY TO SLI RGH TXT, FRM TO BRIT, MICROXLN-AREN FRMWRK, PREDOM SILC, TR SLI CALC, NO VIS POR, NO STN, TR BRI YEL FLOR, 20% PA YEL O FLOR, TR WET CUT W/FNT YELSH TNT, BRI YEL BRKN RES RNG, FNT GRNSH/YEL STN.

DOL: BN LTBN TN BGE CRM, SUBBLKY TO BLKY, SLI GRTY TO SLI RGH TXT, FRM TO BRIT, MICROXLN-AREN FRMWRK, PREDOM SILC, TR SLI CALC, NO VIS POR, NO STN, TR BRI YEL FLOR, 20% PA YEL O FLOR, TR WET CUT W/FNT YELSH TNT, BRI YEL BRKN RES RNG, FNT GRNSH/YEL STN.

DOL: BN LTBN TN BGE OCC CRM-OFFWHT, SUBBLKY TO BLKY, GRTY TO SLI RGH TXT, FRM TO BRIT, AREN-MICROXLN FRMWRK, PREDOM SILC, TR SLI CALC, NO VIS POR, NO STN, TR BRI YELSH/WHT FLOR, 10% PA YEL O FLOR, TR WET CUT W/FNT YELSH TNT, BRI YEL BRKN RES RNG, V/FNT GRNSH/YEL STN.

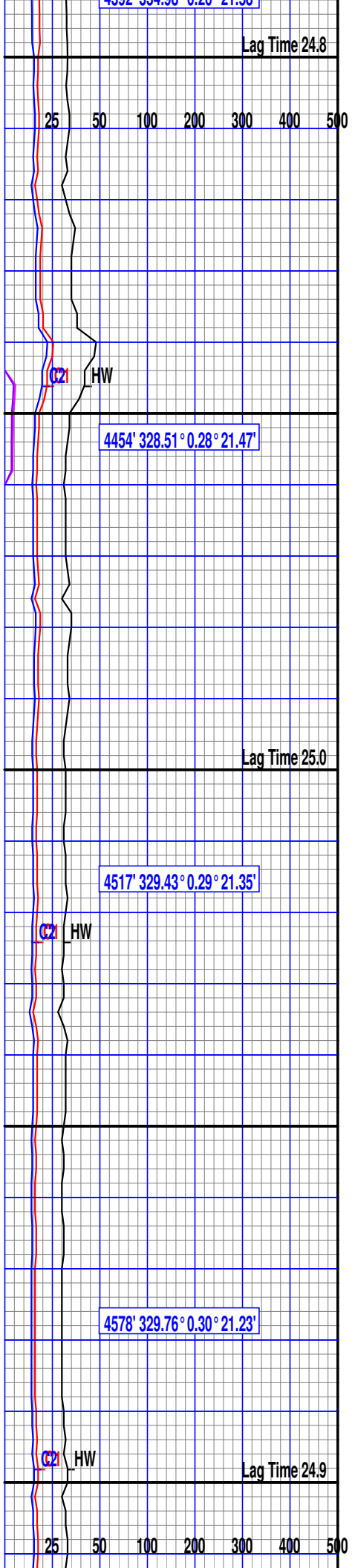
DOL: BN LTBN TN BGE OCC CRM-OFFWHT, SUBBLKY TO BLKY, GRTY TO SLI RGH TXT, FRM TO BRIT, AREN-MICROXLN FRMWRK, PREDOM SILC, TR SLI CALC, NO VIS POR, NO STN, TR BRI YELSH/WHT FLOR, 10% PA YEL O FLOR, TR WET CUT W/FNT YELSH TNT, BRI YEL BRKN RES RNG, V/FNT GRNSH/YEL STN.

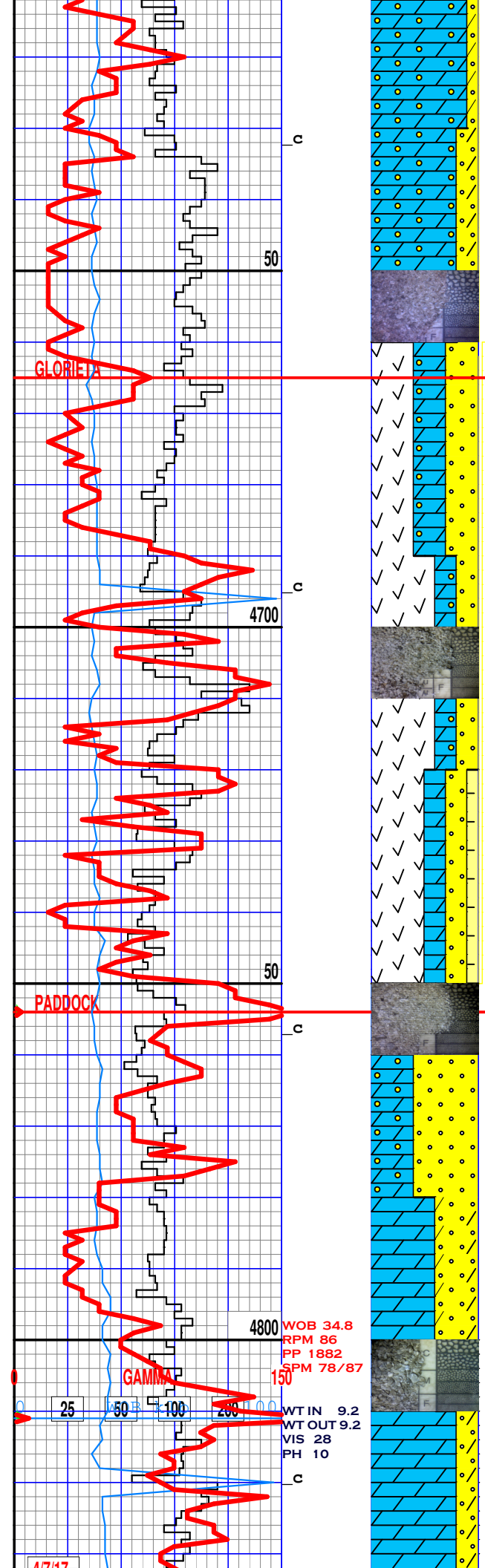
DOL: BN LTBN TN BGE OCC CRM-OFFWHT, SUBBLKY TO BLKY, GRTY TO SLI RGH TXT, FRM TO BRIT, AREN-MICROXLN FRMWRK, PREDOM SILC, TR SLI CALC, NO VIS POR, NO STN, TR BRI YELSH/WHT FLOR, 10% PA YEL O FLOR, TR WET CUT W/FNT YELSH TNT, BRI YEL BRKN RES RNG, FNT GRNSH/YEL STN.

DOL: BN LTBN TN BGE OCC CRM-OFFWHT, SUBBLKY TO BLKY, GRTY TO SLI RGH TXT, FRM TO BRIT, AREN-MICROXLN FRMWRK, PREDOM SILC, TR SLI CALC, NO VIS POR, NO STN, TR BRI YELSH/WHT FLOR, 10% PA YEL O FLOR, TR WET CUT W/FNT YELSH TNT, BRI YEL BRKN RES RNG, FNT GRNSH/YEL STN.

DOL: BN LTBN TN BGE, SUBBLKY TO BLKY, GRTY TO SLI RGH TXT, FRM TO BRIT, AREN-MICROXLN FRMWRK, PREDOM SILC, TR SLI CALC, NO VIS POR, NO STN, TR BRI YELSH/WHT FLOR, 10% PA YEL O FLOR, TR WET CUT W/FNT YELSH TNT, BRI YEL BRKN RES RNG, FNT GRNSH/YEL STN.

SS: FRSTY OPAQ TRANSL V/LTBN LTBN, V/F GRN, SUBRND TO SUBANG, PREDOM MOD CONS, DOLO CMT, W SRTD, PREDOM SILC, TT POR, NO STN, 30% BRI





YELSH/WHT FLOR, 20% PA YEL O FLOR, TR WET CUT W/FNT YELSH TNT, TR BRI GRNSH/BLU BRKN RES RNG, V/FNT GRNSH/BLU STN.

DOL: TN BGE CRM OFFWHT OCC WHT, SUBBLKY TO BLKY, GRTY TO SLI RGH TXT, FRM TO BRIT, AREN-MICROXLN FRMWRK, PREDOM SILC, NO VIS POR, NO STN, 30% BRI YELSH/WHT FLOR, 20% PA YEL O FLOR, TR WET CUT W/FNT YELSH TNT, TR BRI GRNSH/YEL BRKN RES RNG, V/FNT GRN STN.

SS: CRM BGE TN LTBN BN FRSTY OPAQ TRANSL, F TO V/F GRN, SUBANG TO SUBRND, PREDOM MOD-W CONS, SILC CMT, W SRTD, PREDOM SILC, TT POR, NO STN, 40% BRI YELSH/WHT FLOR, 10% PA YEL O FLOR, TR WET CUT W/FNT YELSH TNT, BRI GRN BRKN RES RNG, FNT GRNSH/YEL STN.

ANHY: BRIWHT WHT CLR FRSTY TRANSL OPAQ, SUBBLKY TO BLKY, GRTY TXT, FRM TO BRIT, MOD CLN, SCAT GLAUC, NO VIS POR, TR AREN, NO STN, 30% V/BRI YEL FLOR, 10% PA YEL O FLOR, TR WET CUT W/FNT YELSH TNT, BRI GRN BRKN RES RNG, FNT GRNSH/YEL STN.

DOL: BN LTBN BGE TN, SUBBLKY TO BLKY, SLI GRTY TO SLI RGH TXT, FRM TO BRIT, AREN-MICROXLN FRMWRK, PREDOM SILC, NO VIS POR, NO STN, 40% BRI YELSH/WHT FLOR, 10% PA YEL O FLOR, TR WET CUT W/FNT YELSH TNT, BRI GRN BRKN RES RNG, FNT GRNSH/YEL STN.

SS: LTBN BN BGE OPAQ FRSTY, F TO V/F TO MED GRN SUBANG TO ANG, PREDOM UNCON, SCAT MOD CONS, SILC CMT, W SRTD, PREDOM SILC, NO VIS POR, NO STN, 40% V/BRI YEL FLOR, NO O FLOR, TR WET CUT W/FNT YELSH TNT, BRI YEL BRKN RES RNG, FNT GRNSH/YEL STN.

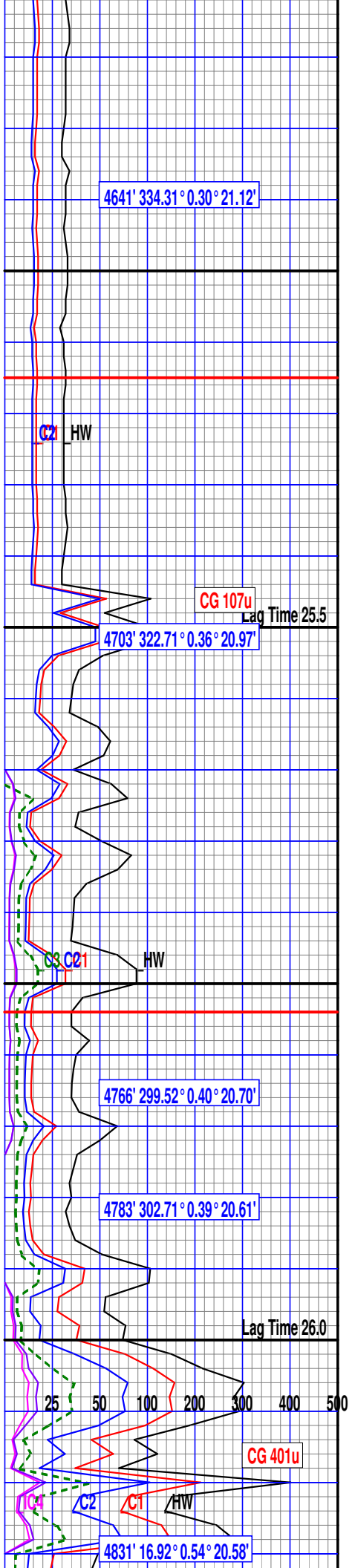
DOL: CRM OFFWHT EGSHEL OCC WHT, SUBBLKY TO BLKY, SLI SMTH TO F TXT, SFT TO FRI TO FRM, MICROXLN FRMWRK, PREDOM SILC, NO VIS POR, NO STN, 40% V/BRI YEL FLOR, NO O FLOR, TR WET CUT W/FNT YELSH TNT, BRI YEL BRKN RES RNG, FNT GRNSH/YEL STN.

CIRC. & CLEAN HOLE
W/HIGH VIS SWEEP.

TOOH FOR CURVE ASSY. @ 4837' ON 4/6/2017 @ 5:45 PM.

G. PAINTER TOUR 4/7/2017

BIT#: 5



4641' 334.31° 0.30° 21.12'

CG 107u Lag Time 25.5

4703' 322.71° 0.36° 20.97'

C3 C21 HW

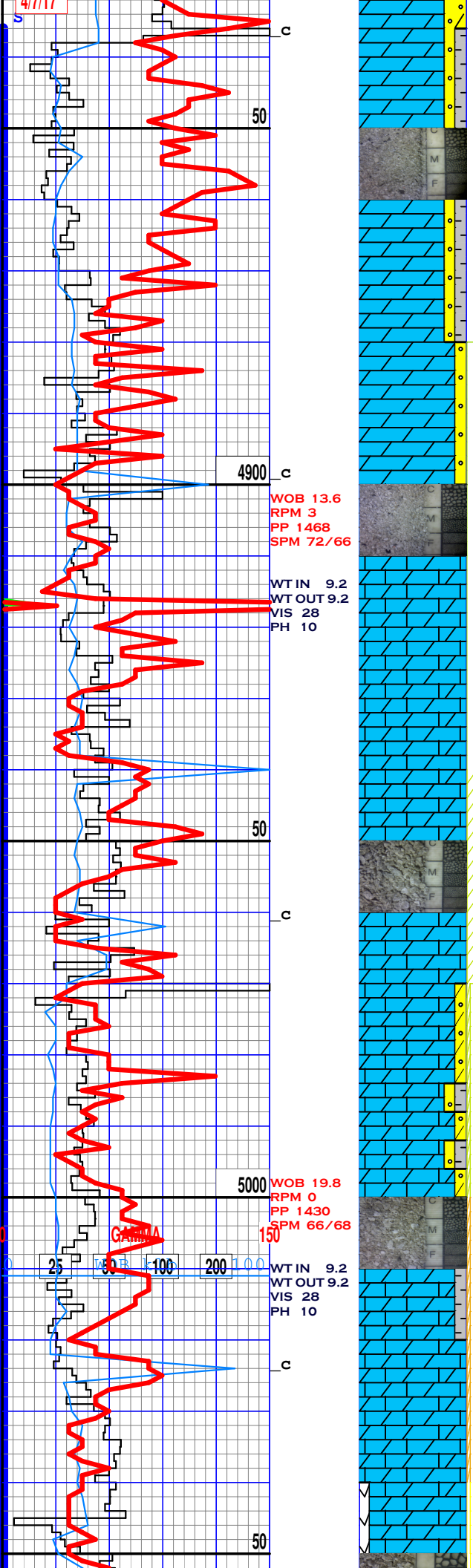
4766' 299.52° 0.40° 20.70'

4783' 302.71° 0.39° 20.61'

Lag Time 26.0

CG 401u

4831' 16.92° 0.54° 20.58'



SIZE: 8.5"
 MFG: HUGHES
 TYPE: TD505FS
 SERIAL#: 7046506
 JETS: 6X18
 DEPTH IN: 4837'

SH: V/DRKGY DRKGY
 GYSHBLK, F TO SLI SMTH
 TXT, FRM TO FRM, NON
 CARB, PREDOM SILC, 40%
 BRI YEL FLOR, NO O FLOR,
 TR V/SLW WET CUT W/V FNT
 YELSH TNT, BRI YELSH/GRN
 BRKN RES RNG, FNT PA
 YELSH/GRN STN.

DOLO: BRN LTBN TN SM
 GRY SM BND, SUBRND-
 SUBANG BLKY, FRM-HD SM
 BRIT, V/FN-MICROXLN, CALC,
 NO VIS POR, 40% BRT
 YELSH/GRN FLOR, 20% PA
 GRNSH O FLOR, SLW P WET
 CUT W/SLI MLKY BLU
 FLM, BRI YEL BRKN RES
 RNG, V/FNT PA YELSH/GRN
 STN

DOLO: LT BRN-BRN TN SM
 GRY, SUBRND-SUBANG
 BLKY, MOD FRM-FRM SM HD
 CHLKY, VFN-MICROXLN, LMY
 NO VIS POR, 40% BRT
 YELSH/GRN FLOR, 20% PA
 GRNSH O FLOR, P BLMNG
 WET CUT W/MLKY BLU FLM,
 BRI YEL UNBRKN RES RNG,
 V/FNT PA YELSH/GRN STN

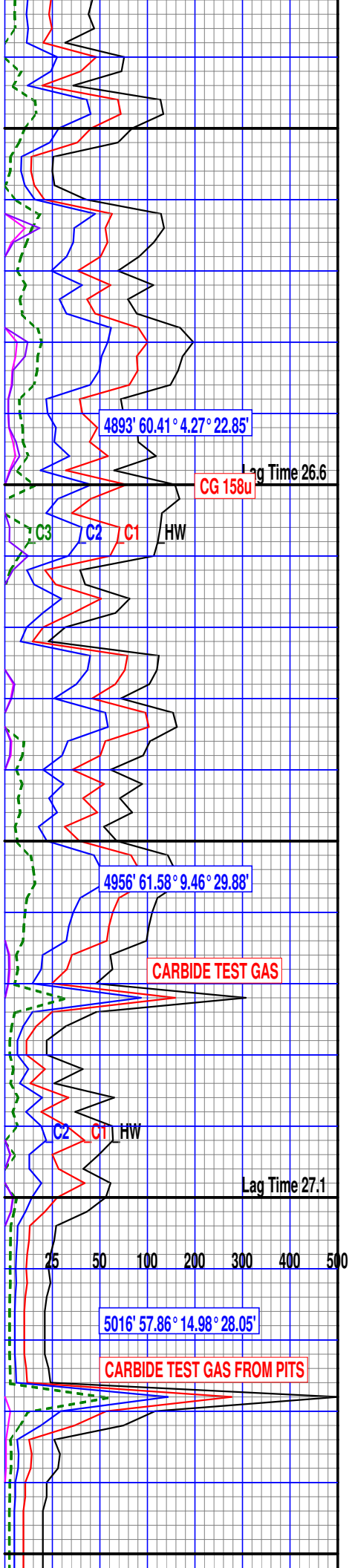
R. SPARGO TOUR 4/7/2017

DOL: BN LTBN BGE TN OCC
 CRM-OFFWHT, SUBBLKY TO
 BLKY, RGH TO SLI GRTY
 TXT, FRM TO BRIT TO SLI
 HD, MICROXLN FRMWRK,
 MICSUC, PREDOM SLI-MOD
 CALC, TT-PP POR, 30% BRI
 YELSH FLOR, 30% PA
 YELSH/GRN O FLOR, SLW P
 BLMNG WET CUT W/SLI MLKY
 PA BLU FLM, BRI YEL
 UNBRKN RES RNG, V/FNT PA
 YELSH/GRN STN.

SS: FRSTY OPAQ TRANSL
 WHT, F TO V/F GN, SUBANG
 TO ANG, PREDOM MOD CONS
 DOLO CMT, W SRTD, PREDOM
 SILC, TT-PP POR, NO STN,
 30% BRI YELSH FLOR, 10%
 PA YELSH/GRN O FLOR, SLW
 P STRMNG WET CUT W/SLI
 MLKY BLU FLM, BRI YEL
 UNBRKN RES RNG, V/FNT PA
 YELSH/GRN STN.

SH: DRKGY MEDGY GY,
 SUBBLKY TO BLKY, F TO
 SLI GRTY TXT, FRM TO FRM
 TO BRIT, NON CARB,
 PREDOM SILC, NON CALC
 10% BRI YELSH FLOR, 10%
 PA ORGSH/YEL O FLOR, SLW
 P STRMNG WET CUT W/SLI
 MLKY BLU FLM, BRI YEL
 UNBRKN RES RNG, V/FNT PA
 YELSH/GRN STN.

DOL: BN LTBN BGE TN OCC
 CRM-OFFWHT, SUBBLKY TO
 BLKY, RGH TO SLI GRTY
 TXT, FRM TO BRIT TO SLI
 HD, MICROXLN FRMWRK,
 MICSUC, PREDOM SLI-MOD
 CALC, TT-PP POR, NO
 FLOR, 10% PA ORGSH/YEL O
 FLOR, SLW P STRMNG WET
 CUT W/SLI MLKY BLU FLM,
 BRI YEL UNBRKN RES RNG,



WOB 13.6
 RPM 3
 PP 1468
 SPM 72/66

WT IN 9.2
 WT OUT 9.2
 VIS 28
 PH 10

WOB 19.8
 RPM 0
 PP 1430
 SPM 66/68

WT IN 9.2
 WT OUT 9.2
 VIS 28
 PH 10

Lag Time 26.6
 CG 158u

Lag Time 27.1

V/FNT PA YELSH/GRN STN.

LIGHTER TEST GAS

DOL: BN LTBN BGE TN OCC CRM-OFFWHT, SUBBLKY TO BLKY, RGH TO SLI GRTY TXT, FRM TO BRIT TO SLI HD, MICROXLN FRMWRK, MICSUC, PREDOM SLI-MOD CALC, TT-PP POR, NO FLOR, 10% PA ORGSH/YEL O FLOR, V/SLW TR WET CUT W/SLI BLUSH TNT, TR BRI YEL BRKN RES RNG, NO STN.

SH: DRKGY MEDGY GY, SUBBLKY TO BLKY, F TO SLI GRTY TXT, FRI TO FRM TO BRIT, NON CARB, PREDOM SILC, NON CALC, 30% BRI YELSH FLOR, NO O FLOR, NO CUT, NO RES RNG, NO STN.

SS: FRSTY OPAQ TRANSL V/LTBN, V/F TO F GRN, SUBRND TO SUBANG, PREDOM MOD CONS, DOLO-CALC CMT, W SRD, PREDOM SLI CALC, OCC SILC, TT-PP-INTERGRN POR, NO STN, 60% BRI YELSH FLOR, 10% PA YEL O FLOR, F WET STMNG CUT W/MLKY GRN FLM, THCK V/BRI GRN UNBRKN RES RNG, SOLID BRI GRN STN.

DOL: BN LTBN BGE TN OCC CRM-OFFWHT, SUBBLKY TO BLKY, RGH TO SLI GRTY TXT, FRM TO BRIT TO SLI HD, MICROXLN FRMWRK, MICSUC, PREDOM SLI-MOD CALC, TT-PP POR, 20% BRI YELSH FLOR, 30% PA YELSH/GRN O FLOR, P WET STMNG CUT W/MLKY GRN FLM, V/BRI GRN UNBRKN RES RNG, BRI GRN STN.

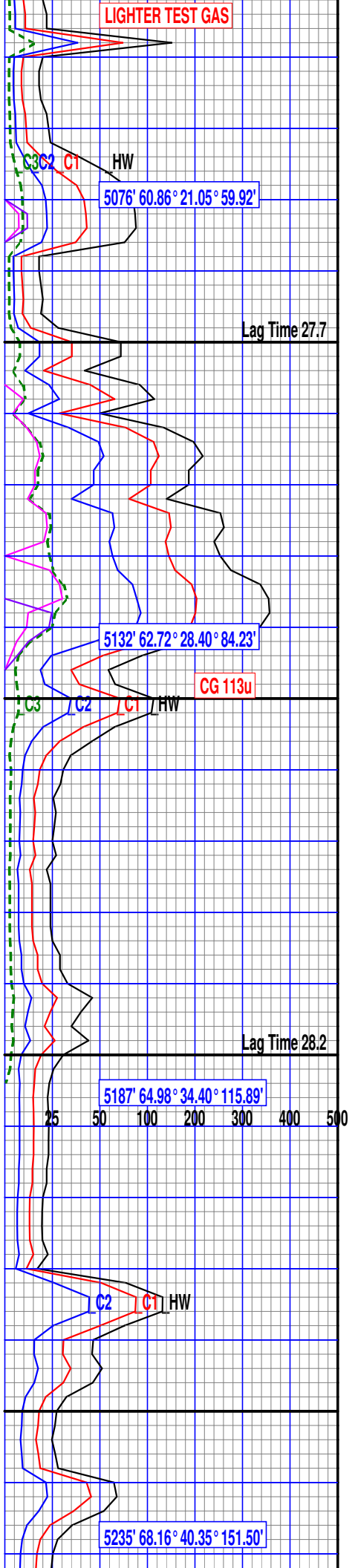
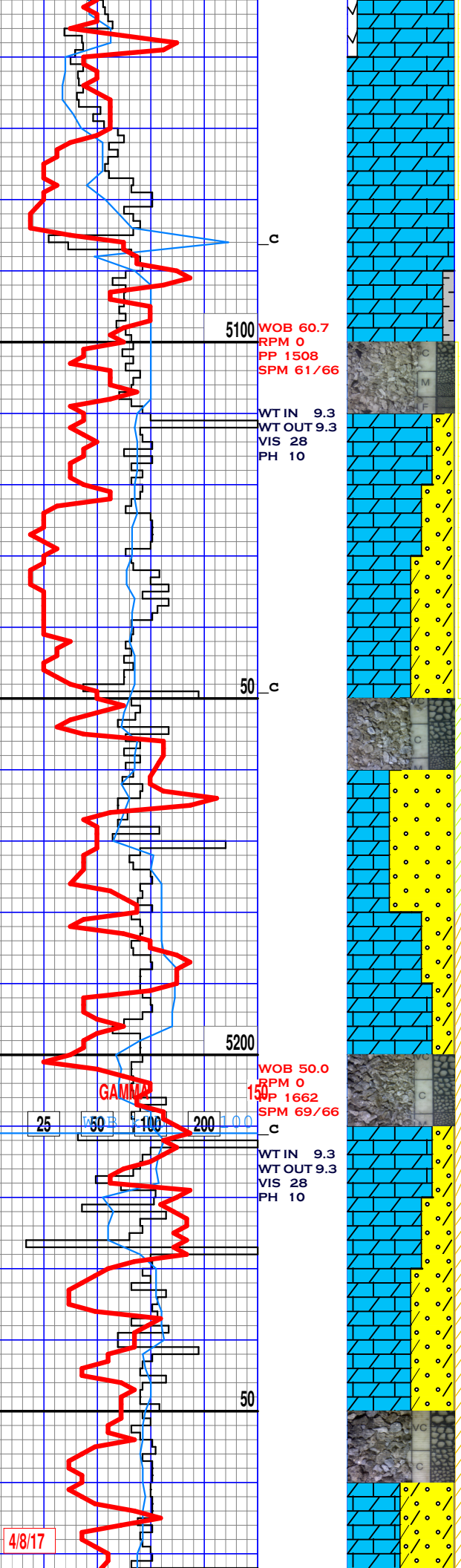
SS: FRSTY OPAQ TRANSL TR V/LTBN, V/F TO F GRN, SUBRND TO SUBANG, PREDOM MOD CONS, DOLO CMT, W SRD, PREDOM SILC, TT-PP POR, NO STN, TR BRI YELSH FLOR, 20% ORG O FLOR, P WET STRMNG CUT W/MLKY BLU FLM, V/BRI GRN UNBRKN RES RNG, BRI GRN STN.

DOL: DRKBN BN LTBN BGE TN, SUBBLKY TO BLKY, SLI GRTY TO SLI RGH TXT, FRM TO BRIT TO HD, MICROXLN FRMWRK, MICSUC, PREDOM SLI-MOD CALC, TT POR, 10% BRI YELSH FLOR, 20% ORGSH/YEL O FLOR, F WET STMNG CUT W/MLKY GRN FLM, THCK V/BRI YEL UNBRKN RES RNG, SOLID BRI YEL STN.

SS: FRSTY OPAQ TRANSL, V/F TO F GRN, SUBRND TO SUBANG, PREDOM MOD CONS, SILC-DOLO CMT, W SRD, PREDOM SILC, TR SLI CALC, TT-PP-INTERGRN POR, NO STN, TR BRI YELSH FLOR, 30% ORGSH/YEL O FLOR, P WET STRMNG CUT W/MLKY BLU FLM, V/BRI YEL UNBRKN RES RNG, BRI YEL STN.

TOOH @ 5273' ON 4/7/2017 @ 7:00 PM FOR BIT & MOTOR.

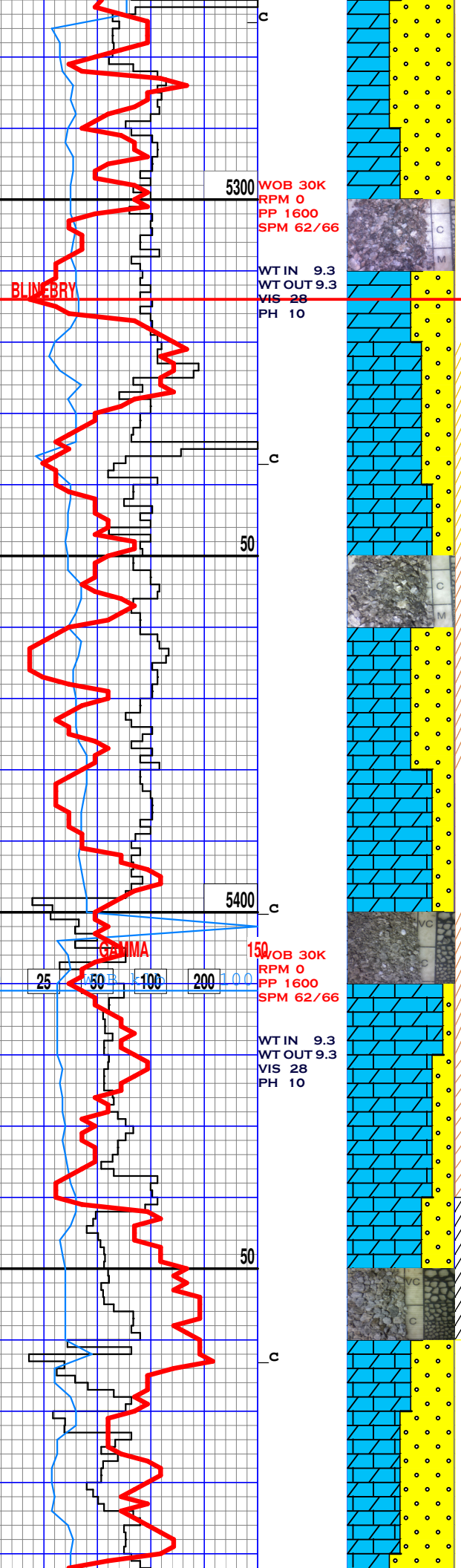
C. PAINTER TOUR 4/8/2017



4/8/17

5235' 68.16° 40.35° 151.50'

 BIT#: 6
 SIZE: 8.5"
 MFG: HUGHES
 TYPE: T505FX
 SERIAL#: 7159142
 JETS: 5X18
 DEPTH IN: 5273'



5300 WOB 30K
 RPM 0
 PP 1600
 SPM 62/66
 WT IN 9.3
 WT OUT 9.3
 VIS 28
 PH 10

5400
 150 WOB 30K
 RPM 0
 PP 1600
 SPM 62/66
 WT IN 9.3
 WT OUT 9.3
 VIS 28
 PH 10

DOL: BRN-DRKBRN TN GRY SM
 MOTT, MOD FRM-FRM SM HD
 CHLKY, VFN-MICROXLN SUCRO
 IP, CALC, 30% BLUSH/GRN
 FLOUR, POOR CUT, UNBRKN
 RES RNG

SS: FRSTY OPAQ SM TRANSL
 TR LT BRN-BRN, V/FN TO FN
 GRN SUBRND TO ANG, MOD
 CONSOL, W SRTD, SILC, SL
 CALC, 20-30% ORG FLOUR, P
 NET CT, BRI GRN RES RNG,
 GRN STN

DOL: LT BRN-BRN LY GRY
 -GRY SM MOTT, MOD FRM-
 FRM, VFN-MICRO XLN, DNS,
 CALC IP, 20% ORG FLOUR,
 P WET CUT, BLUSH GRN
 RES RNG

SS: FRSTD OPAQ TRANSL SM
 CLR, V/FN TO FN GN, SUB
 RND TO RND SUBANG TO
 ANG, MOD CONSOL W/CALC
 CM, DNS, 30% ORG FLOR,
 BLUSH/GRN RES RNG

DOL: LT BRN-BRN TN LY
 GRY-GRY, SM BLK, MOD FRM
 TO FRM BRIT, VFN-MICROXLN
 SUCRO IP, LMY, 20%
 BRNSH/ORG FLOUR, P WET
 CT, BLUSH/GRN RES RNG

SS: GRY FRSTD OPAQ LY
 GRY GRY, MOD FRM-FRM,
 VFN-FN GRN, PRED CONSOL
 W/CALC CMT, SUBRND-RND
 ANG, MOD WSRTD, P CUT,
 BRT YELSH/GRN RES RNG

R. SPARGO TOUR 4/8/2017
 SS: BGE TN LTBN SCAT
 FRSTY OPAQ, V/F TO F
 GRN OCC MED, SUBANG TO
 SUBRND TO ANG, PREDOM
 UNCONS, SCAT M CONS,
 SILC CMT, PREDOM SILC,
 TR SLI CALC, M-P SRTD,
 NO VIS POR, NO STN, NO
 FLOR, 40% PA YEL O FLOR,
 P STRMNG WET CUT W/MLKY
 BLU FLM, BRI YEL UNBRKN
 RES RNG, V/FNT PA YELSH/
 GRN STN.

DOL: BGE TN LTBN OCC

Lag Time 28.8

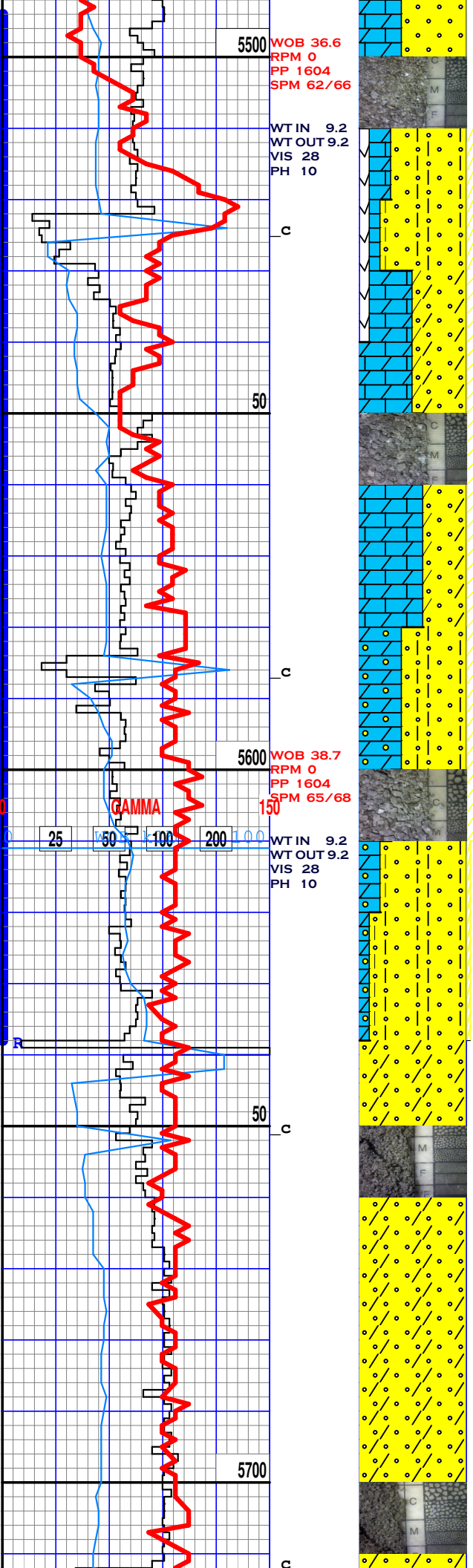
5280' 68.08° 48.32° 194.15'

5319' 68.16° 56.90° 242.62'

Lag Time 29.3

5349' 67.46° 65.24° 295.09'





BRN, SUBBLKY TO BLKY OCC
 SUBANG, SLI GRTY TXT,
 FRM TO BRIT TO SLI HD,
 MICROXLN FRMWRK, LMY SM
 SLI AREN, PREDOM MOD
 CALC, TT POR, TR BRI YEL
 FLOR, 30% PA YEL O FLOR,
 P STRMNG WET CUT W/SLI
 MLKY BLU FLM, BRI YEL
 UNBRKN RES RNG, V/FNT PA
 YELSH/GRN STN.

ANHY: TRANSL FRSTY OPAQ,
 V/FXLN, SUBBLKY, CLN,
 FRI TO FRM, SLI SMTH
 TXT, NO VIS POR, NO
 STN, NO FLOR, 20% PA YEL
 O FLOR, P WET STMNG CUT
 W/MLKY BLU FLM, V/BRI
 GRN UNBRKN RES RNG, BRI
 YELSH/GRN STN.

DOL: BGE TN LTBN BRN,
 SUBBLKY TO BLKY, GRTY TO
 SLI GRTY TXT, FRM TO
 BRIT TO SLI HD, MICROXLN
 FRMWRK, LMY-AREN, PREDOM
 MOD CALC, TT POR, NO
 FLOR, 40% PA YEL O FLOR,
 P STRMNG WET CUT W/SLI
 MLKY BLU FLM, BRI YEL
 SPOTD BRKN RES RNG, FNT
 PA YELSH/GRN STN.

SS: BGE TN LTBN SCAT
 FRSTY OPAQ TRANSL, V/F
 TO F GRN, SUBANG TO
 SUBRND, PREDOM MOD-W
 CONS, SCAT UNCONS,
 DOLO-CALC CMT, PREDOM
 SLI CALC, M-W SRTD, NO
 VIS POR, NO STN, NO
 FLOR, 30% PA YEL O FLOR,
 P STRMNG WET CUT W/MLKY
 BLU FLM, BRI YEL UNBRKN
 RES RNG, V/FNT PA YELSH/
 GRN STN.

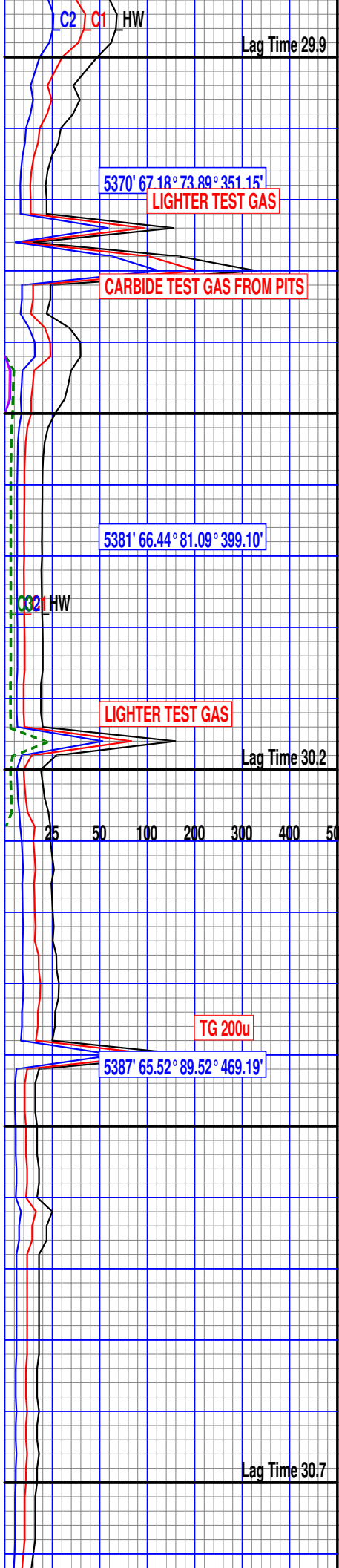
 PUMP HI VIS SWEEP &
 COND. HOLE FOR TRIP.

 TOOH @ 5638' ON 4/8/2017
 @ FOR LAT. ASSY, BIT, &
 MOTOR.

 BIT NO 7
 SIZE 8.5
 MAKE HUGHES
 TYPE TD506FX
 SERIAL NO 7162906
 JETS 6X18
 DEPTH IN 5638
G PAINTER ON TOUR 4/09/2017

SS: FRSTD LT BRN-BRN LT
 GRY-GRY TN
 LT TN SM WT, MOD
 FRM-SFT, V/FN-FN GRN, SUB
 RND-SUBANG, WELL SRTD,
 PREDOM CONSOL, DOL, SM
 V/FNLY PYRITIC. NO FLOR,
 BLUSH GNR FST WET CT
 WITH UNBRKN O RES RNG

SS: LT BRN-BRN FRTD LT
 GRY TN, MOD FRM-FRM,
 V/FN-FN GRN, SUBANG-ANG
 SUBRND-RND, MOD SRTD,
 MNLY CONSOL, DOLO CALC
 IP, NO VIS FLOR, P
 BLUSH/GR FST WET CT WITH
 O RES RNG



5370' 67.18° 73.89° 351.15'
LIGHTER TEST GAS

CARBIDE TEST GAS FROM PITS

5381' 66.44° 81.09° 399.10'

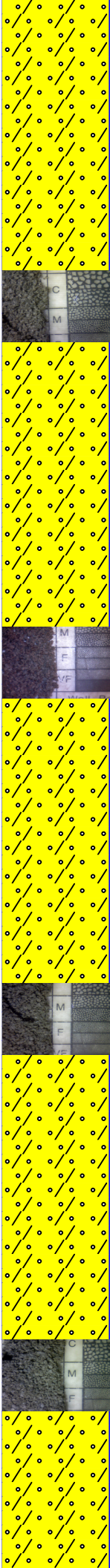
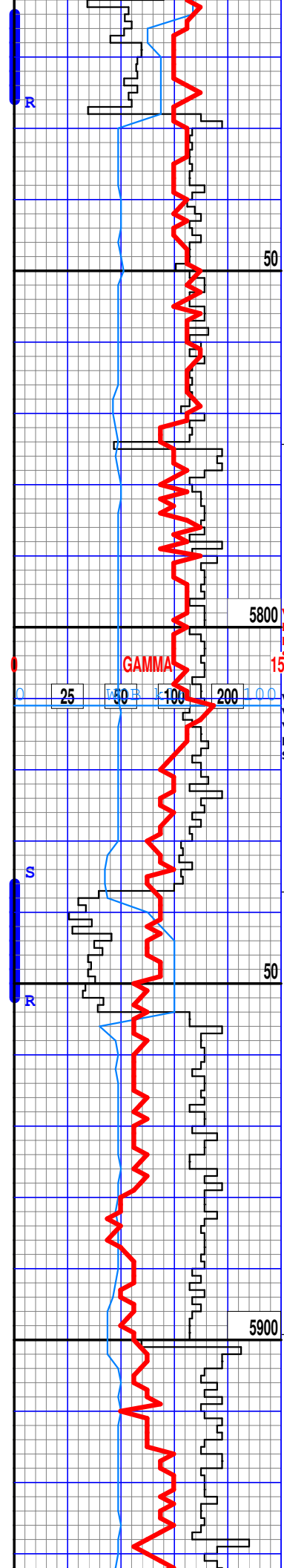
LIGHTER TEST GAS

Lag Time 30.2

TG 200u

5387' 65.52° 89.52° 469.19'

Lag Time 30.7



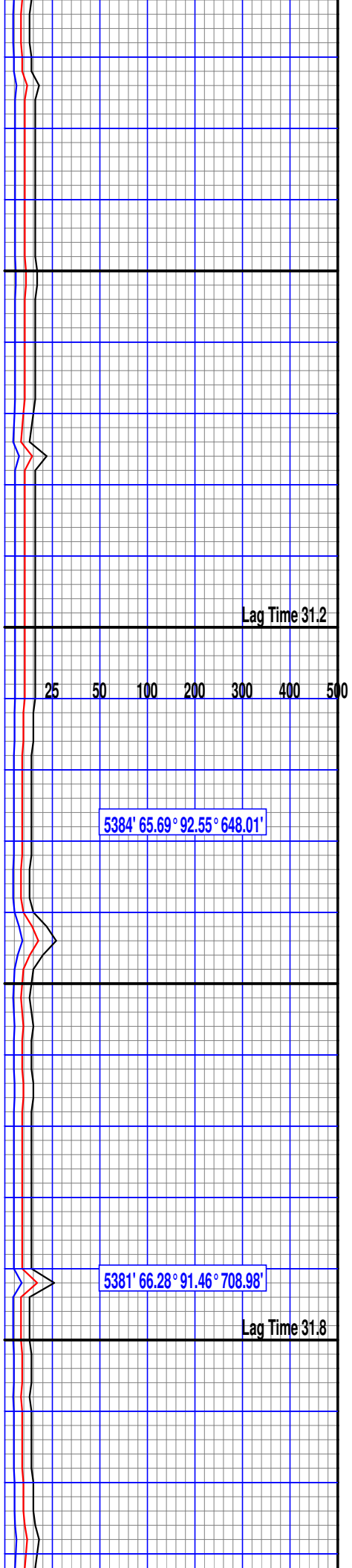
SS: LT BRM-BRN FRSTD
 OPAQ, SFT-FRM SM HD,
 VFN-FN GN, SUBRND-SUBANG
 BLKY, MSRT, PRED CONSOL
 FRI DOL CALC IP, NO VIS
 FLOR, P BLUSH/GR FST WET
 CUT, O UNBKN RES RNG

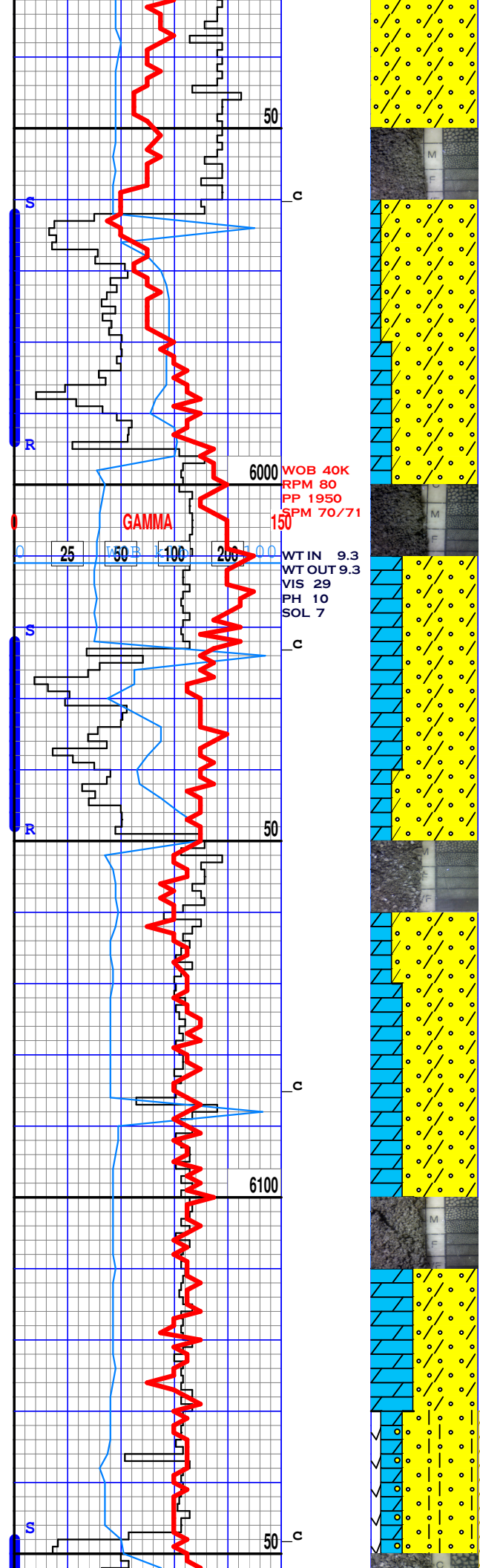
SS: LT GRY-GRY FRSTD
 OPAQ SM TRANSLU, SFT-
 MODFRM SM CHLKY, VFN-FN
 GN, SUBRND-SUBANG,
 WSRTD, PRED CONSOL, DOL,
 NO FLOR, P NEON GRN FST
 WET CUT, BRT YEL/GRN
 UNBKN RES RNG

SS: LT GRY-GRY OPAQ
 FRSTD SM MOTT, SFT-MOD
 FRM, VFN-FN GN, SUB
 RND-SUBANG, MSRTD, PRED
 CONSOL W/CALC CMT, NO
 FLOR, P NEON GRN FST WT
 CUT, YEL GRN UNBKN RES
 RNG

SS: LT GRY-GRY FRSTD
 OPAQ SM MOTT, SFT-MOD
 FRM, VFN-FN GN, SUB
 RND-SUBANG, WSRTD, PRED
 CONSOL W/CALC CMT, NO
 FLOR, P NEON GRN FST WT
 CUT, YEL GRN UNBKN RES
 RNG

SS: LT GRY-GRY FRSTD
 OPAQ SM TRANSLU, SFT-
 MODFRM SM CHLKY, VFN-FN
 GN, SUBRND-SUBANG,
 WSRTD, PRED CONSOL, DOL,
 NO FLOR, P NEON GRN FST
 WET CUT, BRT YEL/GRN
 UNBKN RES RNG





DOL; BRN LTGRY-GRY OFF
 WHT-WHT SM MOTT, FRM-HD
 SM BRITT, VFN-MICROXLN,
 CALC IP, NO FLOR, P NEON
 GRN FST STRMNG WT CT

SS: FRSTD LT GRY-GRY
 OPAQ SM TRANSLU, MOD
 FRM- FRM SM HD, FN-MED
 GR SM VFN GN, PRED
 CONSOL, MSRTD, DOLIC, NO
 FLOR, P MLKY BLUSH/GN WT
 STRM CT

DOL: LT BRN-BRNLTGRY-GRY
 OFF WHT SM MOTT, FRM-HD
 SM BRITT, VFN-MICROXLN,
 CALC IP, NO FLOR, P NEON
 GRN FST STRMNG WT CT

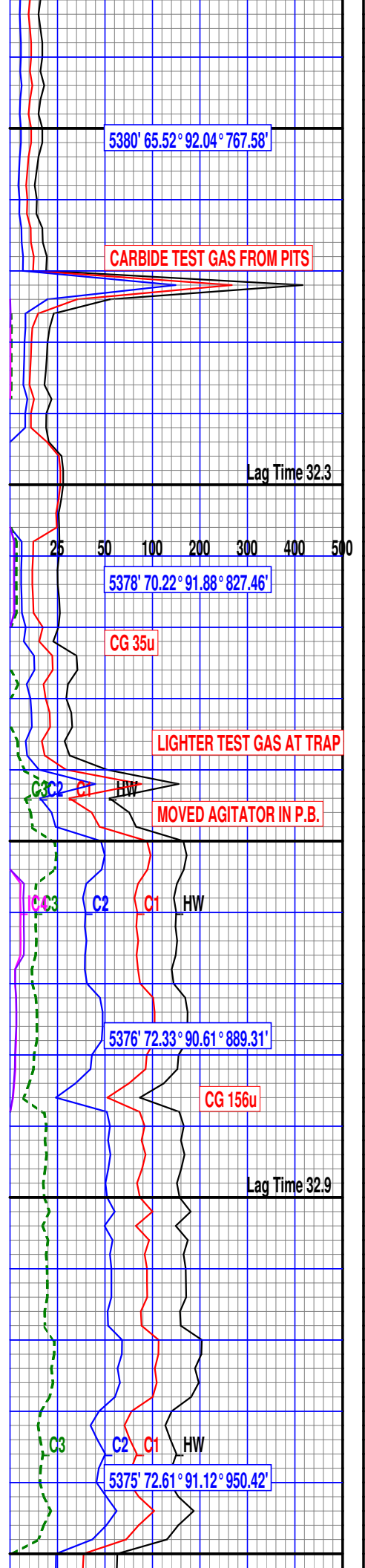
SS: BRN LT BRN FRSTD LT
 GRY-GRY OPAQ SM TRANSLU
 SM BLK, MOD FRM- FRM SM
 HD, FN-MED GR SM VFN GN,
 PREDCONSOL, WSRTD, DOLIC, N
 O FLOR, P MLKY BLUSH/GN
 WT STRM CT

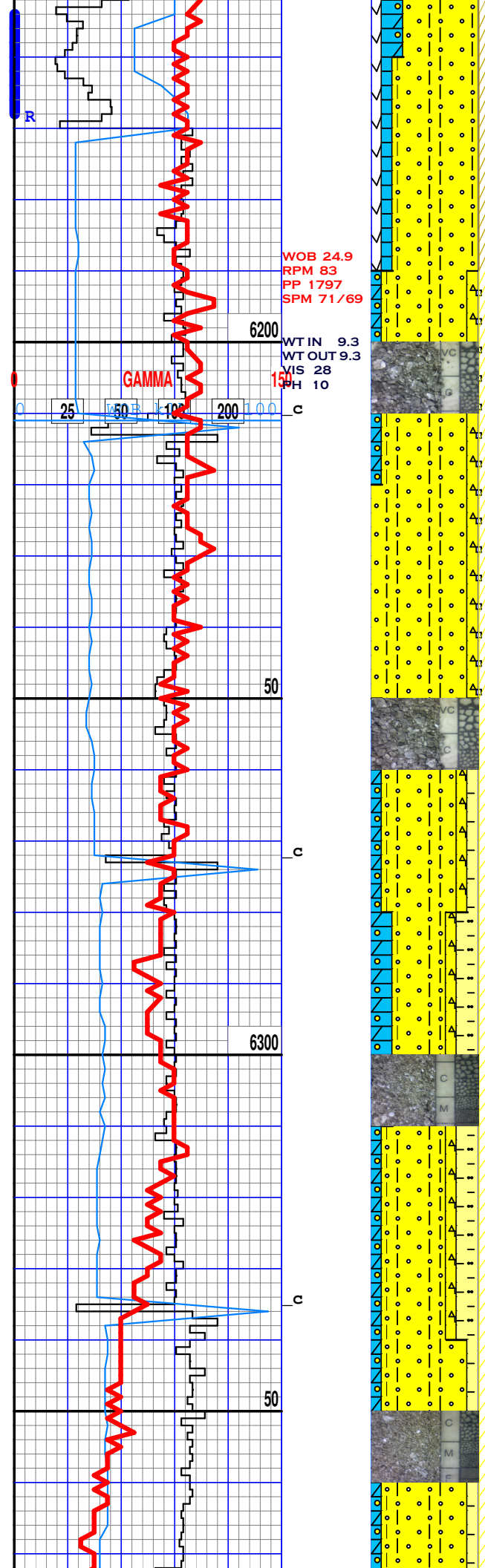
DOL: LT BRN-BRNLTGRY-GRY
 OFF WHT SM MOTT, FRM-HD
 SM BRITT, VFN-MICROXLN,
 CALC IP, NO FLOR, T NEON
 GRN FST STRMNG WT CT

SS: FRSTD LT GRY-GRY
 OPAQ SM TRANSLU, MOD
 FRM- FRM SM HD, FN-MED
 GR SM VFN GN, PRED
 CONSOL, MSRTD, DOLIC, NO
 FLOR, T MLKY BLUSH/GN WT
 STRM CT

R. SPARGO TOUR 4/9/2017

DOL: DRKBN BN LTBN, BLKY
 TO SUBBLKY, GRTY TO SLI
 GRTY TXT, FRM TO BRIT TO
 SLI HD, MICROXLN-AREN
 FRMWRK, AREN, PREDOM
 MOD CALC, TT-PP POR, NO





FLOR, 20% YELSH/GLD O FLOR, P STRMNG WET CUT W/MLKY BLU FLM, BRI YEL UNBRKN RES RNG, BRI YELSH/GRN STN.

ANHY: WHT TRANSL FRSTY, V/FXLN, SUBBLKY, CLN, FRI TO FRM, SLI SMTH TXT, NO VIS POR, NO STN, NO FLOR, 20% YELSH/GLD O FLOR, P STRMNG WET CUT W/MLKY BLU FLM, BRI YEL UNBRKN RES RNG, BRI YELSH/GRN STN.

OW: FRSTY TRANSL OPAQ CLR, SUBBLKY TO BLKY, SMTH TO POLISHD TXT, CLN, NO STN, TR BRI YEL FLOR, 20% PA YEL O FLOR, P STRMNG WET CUT W/MLKY BLU FLM, V/BRI YEL UNBRKN RES RNG, SOLID BRI YEL STN.

SS: BN LTBN BGE TN CRM OFFWHT OPAQ FRSTY, V/F TO F GRN, SUBANG TO SUBRND, PREDOM MOD-W CONS, CALC CMT, PREDOM SLI-MOD CALC, W SRTD, TT-PP VIS POR, NO STN, TR BRI YEL FLOR, 20% PA YEL O FLOR, P WET STMNG CUT W/MLKY BLU FLM, V/BRI YEL UNBRKN RES RNG, SOLID BRI YEL STN.

SLT: LTBN BN BGE TN, SFT TO SM FRI, V/FN GRN, V/W SRTD, PRED SLI CALC CMT, AREN IP, NON CARE NO VIS POR, NO STN, 30% BRI YEL FLOR, 30% PA YEL O FLOR, P WET STMNG CUT W/MLKY BLU FLM, V/BRI YEL UNBRKN RES RNG, SOLID BRI YEL STN.

DOL: DRKBN BN LTBN, BLKY TO SUBBLKY, GRTY TO SLI GRTY TXT, FRM TO BRIT TO SLI HD, MICROXLN-AREN FRMWRK, AREN, PREDOM MOD CALC, TT-PP POR, 30% BRI YEL FLOR, 30% PA YEL O FLOR, F STRMNG WET CUT W/MLKY BLU FLM, THCK V/BRI YEL UNBRKN RES RNG, SOLID BRI YEL STN.

OW: FRSTY TRANSL OPAQ CLR, SUBBLKY TO BLKY, SMTH TO POLISHD TXT, CLN, NO STN, 30% BRI YEL FLOR, 30% PA YEL O FLOR, F STRMNG WET CUT W/MLKY BLU FLM, THCK V/BRI YEL UNBRKN RES RNG, SOLID BRI YEL STN.

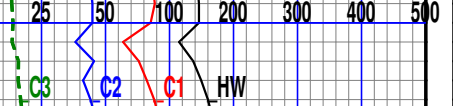
SS: LTBN BGE TN OPAQ FRSTY TRANSL, V/F GRN OCC F GRN, SUBANG TO ANG TO SUBRND, PREDOM MOD-FRI CONS, SCAT UNCONS, CALC CMT, PREDOM SLI CALC, W SRTD, TT-PP VIS POR, NO STN, 10% BRI YEL FLOR, 30% PA YEL O FLOR, F STRMNG WET CUT W/MLKY BLU FLM, THCK V/BRI YEL UNBRKN RES RNG, SOLID BRI YEL STN.

SLT: LTBN BN BGE TN,

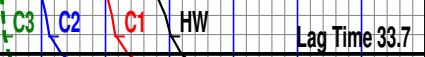
LIGHTER TEST GAS

Lag Time 33.4

5375' 74.35° 90.17° 1011.70'

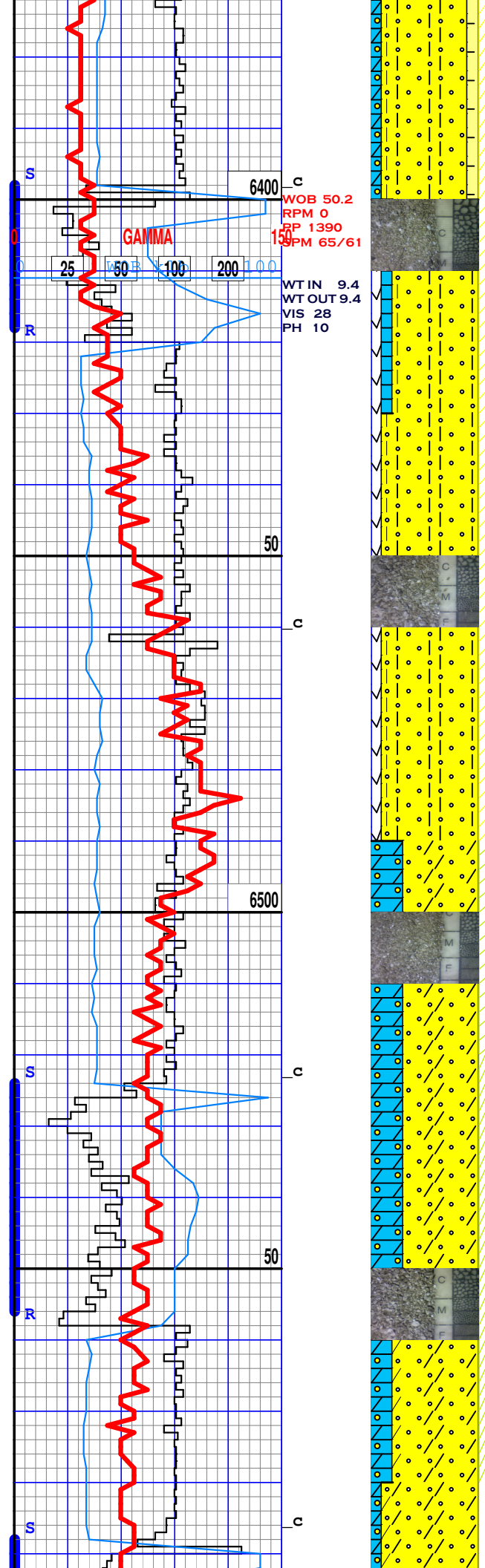


5374' 74.56° 90.59° 1083.05'



Lag Time 33.7

5373' 74.67° 91.54° 1036.57'



SFT TO SM FRI, V/FN GRN
 V/W SRTD, PRED SLI CALC
 CMT, AREN IP, NON CARE
 NO VIS POR, NO STN, 10%
 BRI YEL FLOR, 30% PA YEL
 O FLOR, F STRMNG WET CUT
 W/MLKY BLU FLM, THCK
 V/BRI YEL UNBRKN RES
 RNG, SOLID BRI YEL STN.

ANHY: FRSTY OPAQ TRANSL
 WHT, V/FXLN, SUBBLKY,
 CLN, FRI TO FRM, SLI
 SMTH TXT, NO VIS POR, NO
 STN, TR BRI YEL FLOR,
 40% PA YEL O FLOR, F
 STRMNG WET CUT W/MLKY
 BLU FLM, THCK V/BRI YEL
 UNBRKN RES RNG, SOLID
 BRI YEL STN.

SS: LTBN BGE TN OPAQ
 FRSTY TRANSL, V/F TO F
 GRN, SUBANG TO ANG TO
 SUBRND, PREDOM UNCONS
 SCAT P-LOSLY CONS, CALC
 CMT, PREDOM SLI CALC, W
 SRTD, TT-PP VIS POR, NO
 STN, TR BRI YEL FLOR,
 40% PA YEL O FLOR, F
 STRMNG WET CUT W/MLKY
 BLU FLM, THCK V/BRI YEL
 UNBRKN RES RNG, SOLID
 BRI YEL STN.

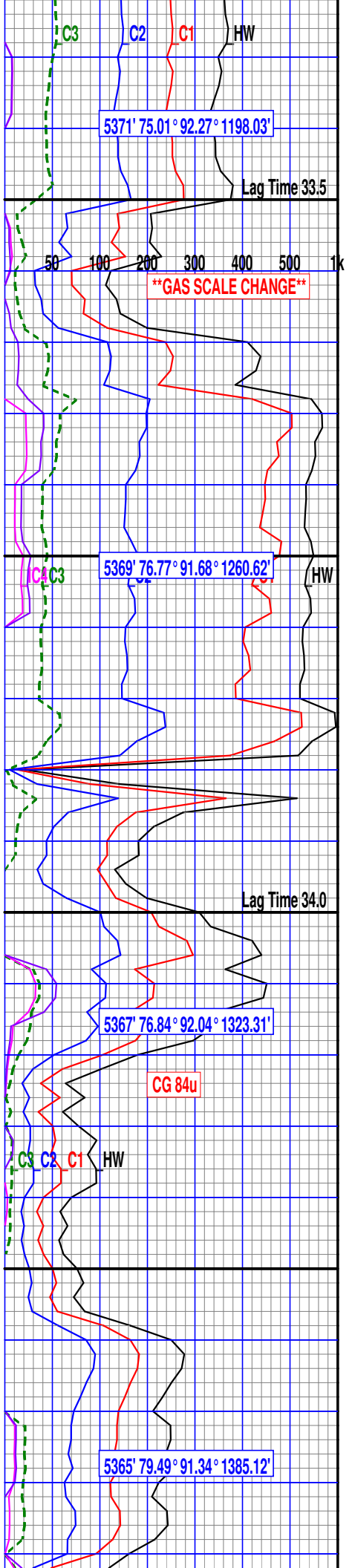
ANHY: FRSTY OPAQ TRANSL
 WHT, V/FXLN, SUBBLKY,
 CLN, FRI TO FRM, SLI
 SMTH TXT, NO VIS POR, NO
 STN, TR BRI YEL FLOR,
 40% PA YEL O FLOR, F
 STRMNG WET CUT W/MLKY
 BLU FLM, THCK V/BRI YEL
 UNBRKN RES RNG, SOLID
 BRI YEL STN.

DOL: V/LTBN LTBN BGE TN
 TR BN, SUBBLKY TO BLKY,
 GRTY TO SLI GRTY TXT
 FRM TO BRIT TO HD, AREN
 FRMWRK, AREN, PREDOM SLI
 CALC, TT VIS POR, NO
 FLOR, 50% YELSH/GRN O
 FLOR, F STRMNG WET CUT
 W/MLKY BLU FLM, THCK
 V/BRI YEL UNBRKN RES
 RNG, SOLID BRI YEL STN.

SS: OPAQ V/LTBN TN BGE
 LTBN FRSTY TRANSL, V/F
 TO F GRN, SUBANG TO ANG,
 PREDOM P-LOSLY CONS,
 SCAT UNCONS, DOLO CMT,
 PREDOM SLI CALC, W SRTD,
 TT-PP VIS POR, NO STN,
 NO FLOR, 20% YELSH/GRN O
 FLOR, F STRMNG WET CUT
 W/MLKY BLU FLM, V/BRI
 GRNSH/YEL UNBRKN RES
 RNG, BRI YEL STN.

DOL: V/LTBN LTBN BGE TN
 TR BN, SUBBLKY TO BLKY,
 GRTY TO SLI GRTY TXT
 FRM TO BRIT TO HD, AREN
 FRMWRK, AREN, PREDOM SLI
 CALC, TT VIS POR, NO
 FLOR, 20% YELSH/GRN O
 FLOR, F STRMNG WET CUT
 W/MLKY BLU FLM, V/BRI
 GRNSH/YEL UNBRKN RES
 RNG, BRI YEL STN.

SS: OPAQ V/LTBN TN BGE
 LTBN FRSTY TRANSL, V/F
 TO F GRN, SUBANG TO ANG,
 PREDOM P-LOSLY CONS,
 SCAT UNCONS, DOLO CMT,
 PREDOM SLI CALC, W SRTD,



5371' 75.01° 92.27° 1198.03'

Lag Time 33.5

GAS SCALE CHANGE

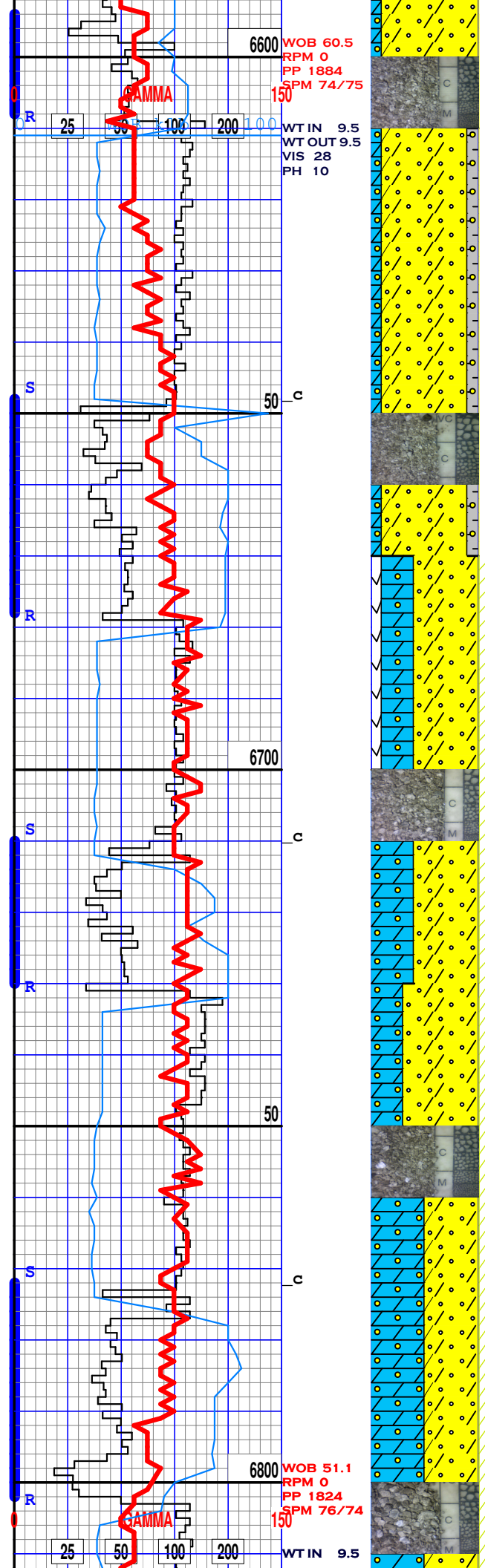
5369' 76.77° 91.68° 1260.62'

Lag Time 34.0

5367' 76.84° 92.04° 1323.31'

CG 84u

5365' 79.49° 91.34° 1385.12'



TT-PP VIS POR, NO STN,
NO FLOR, 20% PA YEL O
FLOR, F BLMNG WET CUT
W/BRI MLKY BLU FLM,
V/BRI YEL UNBRKN RES
RNG, BRI YEL STN.

DOL: V/LTBN LTBN BGE TN
OCC OFFWHT-CRM, SUBBLKY
TO BLKY, GRTY TO SLI
GRTY TXT, FRM TO BRIT TO
HD, AREN FRMWRK, AREN,
PREDOM SLI CALC, TT VIS
POR, NO FLOR, 20% PA YEL
O FLOR, F BLMNG WET CUT
W/BRI MLKY BLU FLM, V/
BRI YEL UNBRKN RES RNG,
BRI YEL STN.

SH: V/DRKGY DRKGY
GYSHBLK, F TO SLI SMTH
TXT, FRI TO FRM, AREN,
NONCARB, PREDOM SILC,
TR SLI CALC, NO FLOR,
20% PA YEL O FLOR, F
BLMNG WET CUT W/BRI MLKY
BLU FLM, V/BRI YEL
UNBRKN RES RNG, BRI YEL
STN.

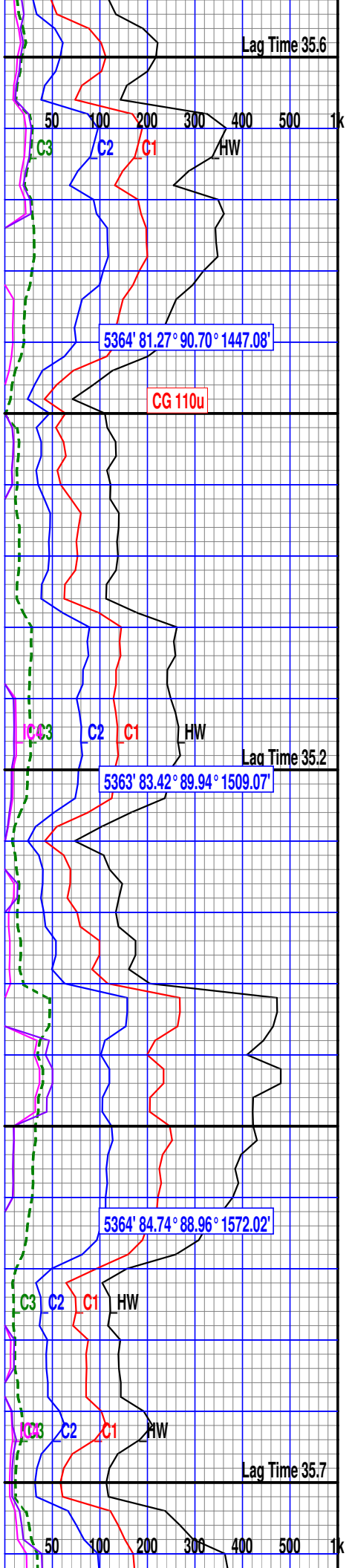
ANHY: FRSTY OPAQ TRANSL
WHT, V/FXLN, SUBBLKY,
CLN, FRI TO FRM, SLI
SMTH TXT, NO VIS POR, NO
STN, TR BRI YEL FLOR,
40% PA YELSH/GRN O FLOR,
F STRMNG WET CUT W/BRI
MLKY BLU FLM, THCK V/BRI
YEL UNBRKN RES RNG,
SOLID BRI YEL STN.

SS: OPAQ V/LTBN TN BGE
LTBN FRSTY TRANSL, V/F
TO F GRN, SUBANG TO ANG,
PREDOM P-LOSLY CONS,
SCAT UNCONS, DOLO CMT,
PREDOM SLI CALC, W SRTD,
TT-PP VIS POR, NO STN,
TR BRI YEL FLOR, 40% PA
YELSH/GRN O FLOR, F
STRMNG WET CUT W/MLKY
BLU FLM, THCK V/BRI YEL
UNBRKN RES RNG, SOLID
BRI YEL STN.

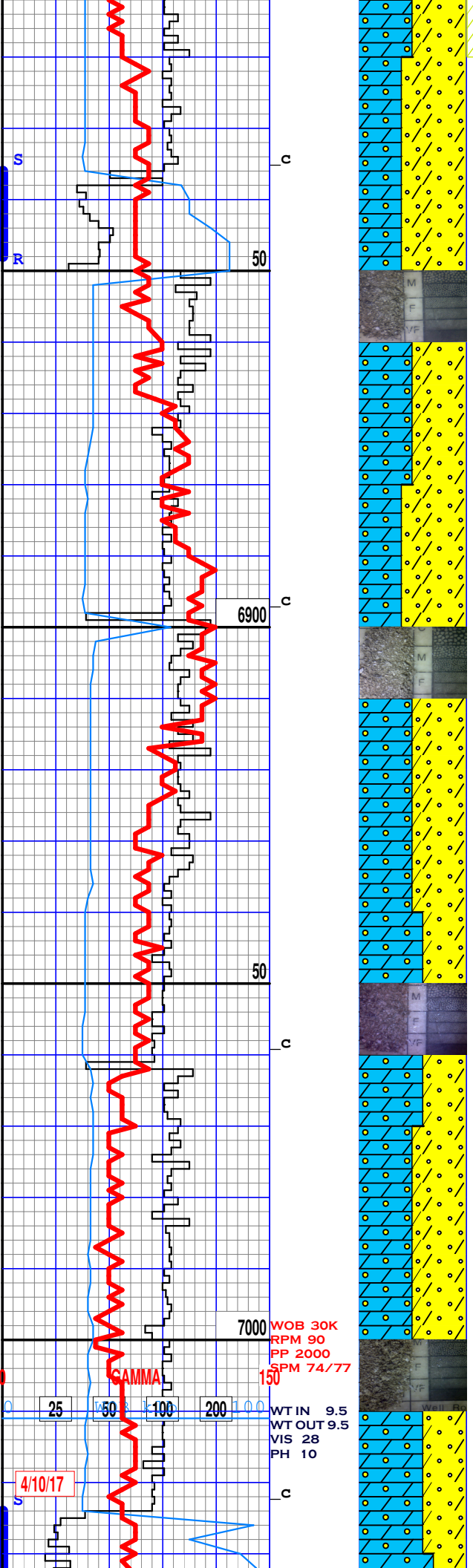
DOL: V/LTBN LTBN BGE TN
OCC OFFWHT-CRM, SUBBLKY
TO BLKY, GRTY TO SLI
GRTY TXT, FRM TO BRIT TO
HD, AREN FRMWRK, AREN,
PREDOM SLI CALC, TT VIS
POR, NO FLOR, 30% PA
YELSH/GRN O FLOR, F
STRMNG WET CUT W/BRI
MLKY BLU FLM, THCK V/BRI
YEL UNBRKN RES RNG,
SOLID BRI YEL STN.

SS: LTBN V/LTBN TN BGE
OPAQ FRSTY TRANSL, V/F
TO F GRN, SUBANG TO ANG,
PREDOM P CONS, SCAT
UNCONS, DOLO CMT, PREDOM
SLI CALC, W SRTD, TT-PP-
INTERGRN VIS POR, NO
STN, NO FLOR, 30% PA
YELSH/GRN O FLOR, F
STRMNG WET CUT W/BRI
MLKY BLU FLM, THCK V/BRI
YEL UNBRKN RES RNG,
SOLID BRI YEL STN.

DOL: V/LTBN LTBN BGE TN
OCC OFFWHT-CRM, SUBBLKY
TO BLKY, GRTY TO SLI
GRTY TXT, FRM TO BRIT TO
HD, AREN FRMWRK, AREN,
PREDOM SLI CALC, TT VIS
POR, NO FLOR, 30% PA
YELSH/GRN O FLOR, F
STRMNG WET CUT W/BRI
MLKY BLU FLM, THCK V/BRI
GRNSH/YEL UNBRKN RES



RNG, SOLID GRNSH/YEL STN.
 G. PAINTER ON TOUR 4/10/2017



SS: LTBRN-BRN FRSTD LT
 GRY OPAQ SM TRANSLU, MOD
 FRM-FRM SM BRITT, VFN-FN
 GN, SUBRND-SUBANG, MSRTD,
 FR1A, PRED CONSOL W/DOLÓ
 CMT, NO VIS FLOR, F
 MILKY BLU STRMG WT CT,
 GRNSH/YEL UNBRKN RES RNG

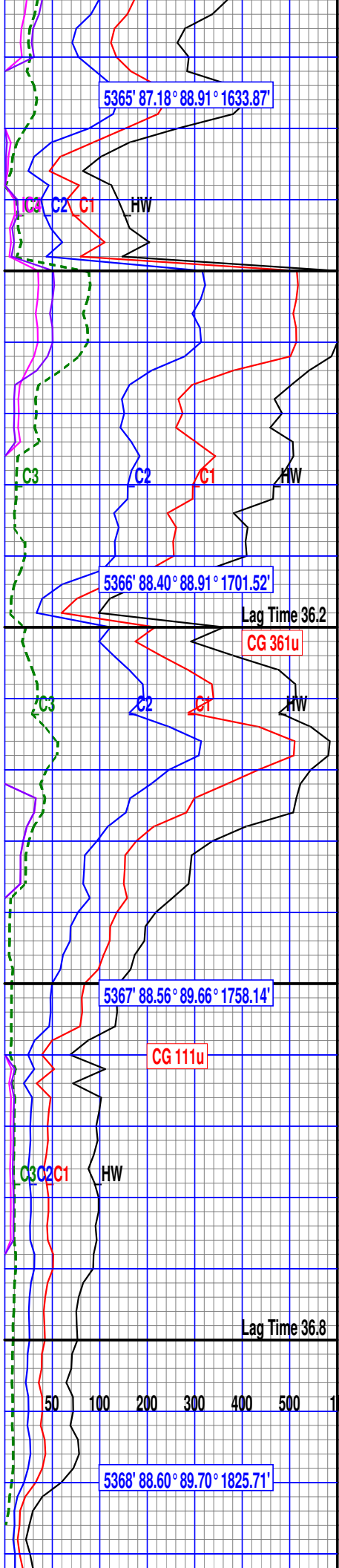
DOL: LTBRN-BRN BGE TN,
 SUBBLKY TO BLKY,
 FRM-BRITT, AREN FRMWRK,
 PRED SLI CALC, NO FLOR,
 F STRMNG WET CUT W/BRI
 MLKY BLU FLM, BRI
 GRNSH/YEL UNBRKN RES RNG

SS: LTBRN-BRN FRSTD CRM
 LT GRY OPAQ SM TRANSLU,
 MODFRM-FRM BRITT, VFN-FN
 GN, SUBRND-SUBANG, MSRTD,
 FR1A, PRED CONSOL W/DOLÓ
 CMT, NO VIS FLOR, F
 MILKY BLU STRMG WT CT,
 GRNSH/YEL UNBRKN RES RNG

DOL: LTBRN-BRN BGE TN,
 SUBBLKY TO BLKY,
 FRM-BRITT, AREN FRMWRK,
 PRED SLI CALC, NO FLOR,
 F STRMNG WET CUT W/BRI
 MLKY BLU FLM, BRI
 GRNSH/YEL UNBRKN RES RNG

SS: LTBRN-BRN FRSTD LT
 GRY OPAQ SM TRANSLU, MOD
 FRM-FRM SM BRITT, VFN-FN
 GN, SUBRND-SUBANG, MSRTD,
 FR1A, PRED CONSOL W/DOLÓ
 CMT, NO VIS FLOR, P
 MILKY BLU STRMG WT CT,
 GRNSH/YEL UNBRKN RES RNG

DOL: LTBRN-BRN BGE TN OFF
 WHT-WHT, MODFRM-FRM SM
 BRITT, BLKY AREN
 FRMWRK, PRED SLI CALC,
 NO FLOR, F STRMNG WET
 CUT W/BRI MLKY BLU
 FLM, BRI GRNSH/YEL UNBRKN
 RES RNG



5365' 87.18° 88.91° 1633.87'

5366' 88.40° 88.91° 1701.52'

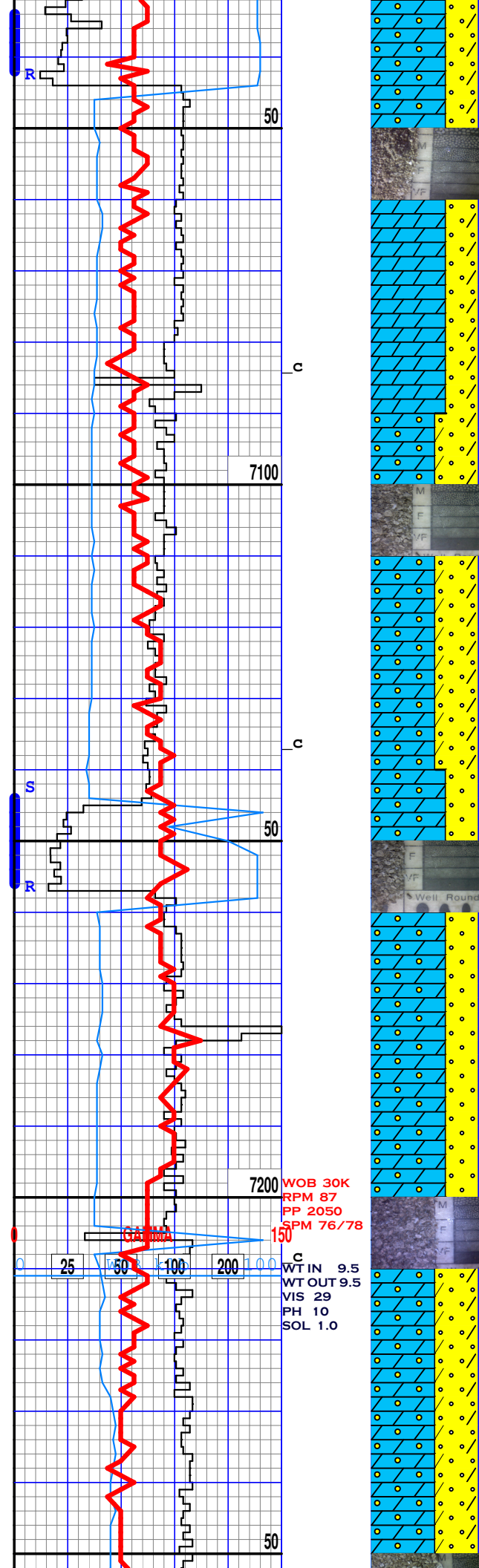
5367' 88.56° 89.66° 1758.14'

5368' 88.60° 89.70° 1825.71'

Lag Time 36.2

Lag Time 36.8

500 1k



SS: LTBRN-BRN FRSTD LT
 GRY OPAQ SM TRANSLU CRM,
 MOD FRM-FRM SM BRITT,
 VFN-FNGN, SUBRND-SUBANG, M
 SRD, FRIA, PRED CONSOL
 W/DOLO CMT, NO VIS FLOR,
 F MILKY BLU STRMG WT CT,
 GRNSH/YEL UNBRKN RES RNG

DOL: LTBN-BRN BGE TN OFF
 WHT-WHT, MODFRM-FRM SM
 HD, BLKY, AREN IP, PRED
 CALC, NO FLOR, F STRMNG
 WET CUT W/BRI MLKY BLU
 FLM, BRI GRNSH/YEL UNBRKN
 RES RNG

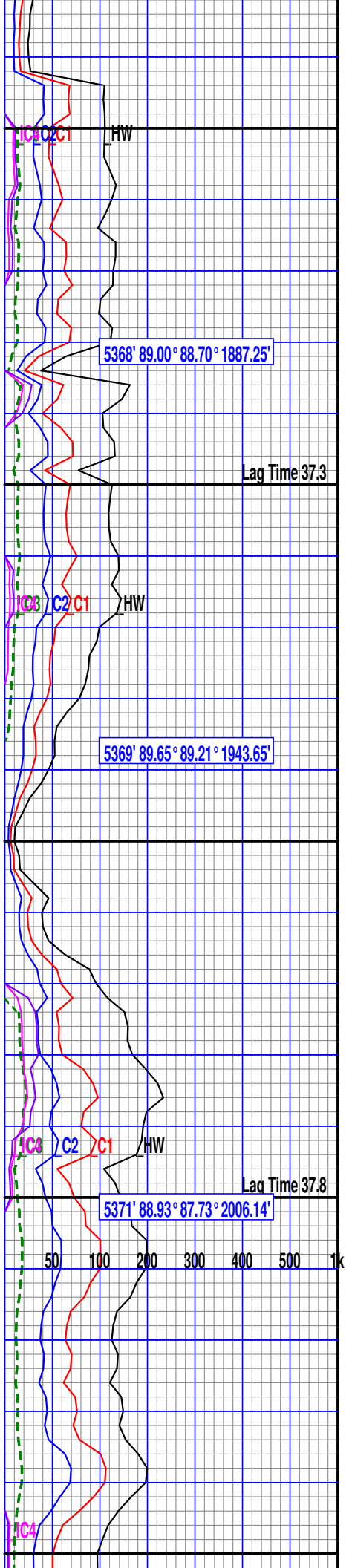
SS: LTBRN-BRN FRSTD LT
 GRY OPAQ SM TRANSLU, MOD
 FRM-FRM SM BRITT, VFN-FN
 GN, SUBRND-SUBANG, MSRTD,
 FRIA, PRED CONSOL W/DOLO
 CMT, NO VIS FLOR, P
 MILKY BLU STRMG WT CT,
 GRNSH/YEL UNBRKN RES RNG

DOL: LTBN-BRN BGE TN OFF
 WHT-WHT, MODFRM-FRM SM
 BRITT, BLKY, AREN
 FRMWRK, PRED SLI CALC,
 NO FLOR, F STRMNG WET
 CUT W/BRI MLKY BLU
 FLM, BRI GRNSH/YEL UNBRKN
 RES RNG

SS: LTBRN-BRN FRSTD LT
 GRY OPAQ SM TRANSLU CRM,
 MOD FRM-FRM SM BRITT,
 VFN-FNGN, SUBRND-SUBANG, M
 SRD, FRIA, PRED CONSOL
 W/DOLO CMT, NO VIS FLOR,
 F MILKY BLU STRMG WT CT,
 GRNSH/YEL UNBRKN RES RNG

DOL: LTBN-BRN BGE TN OFF
 WHT-WHT, MODFRM-FRM SM
 HD, BLKY, AREN IP, PRED
 CALC, NO FLOR, F STRMNG
 WET CUT W/BRI MLKY BLU
 FLM, BRI GRNSH/YEL UNBRKN
 RES RNG

SS: LTBRN-BRN FRSTD LT
 GRY OPAQ SM TRANSLU, MOD
 FRM-FRM SM BRITT, VFN-FN
 GN, SUBRND-SUBANG, MSRTD,
 FRIA, PRED CONSOL W/DOLO
 CMT, NO VIS FLOR, P
 MILKY BLU STRMG WT CT,
 GRNSH/YEL UNBRKN RES RNG



5368' 89.00° 88.70° 1887.25'

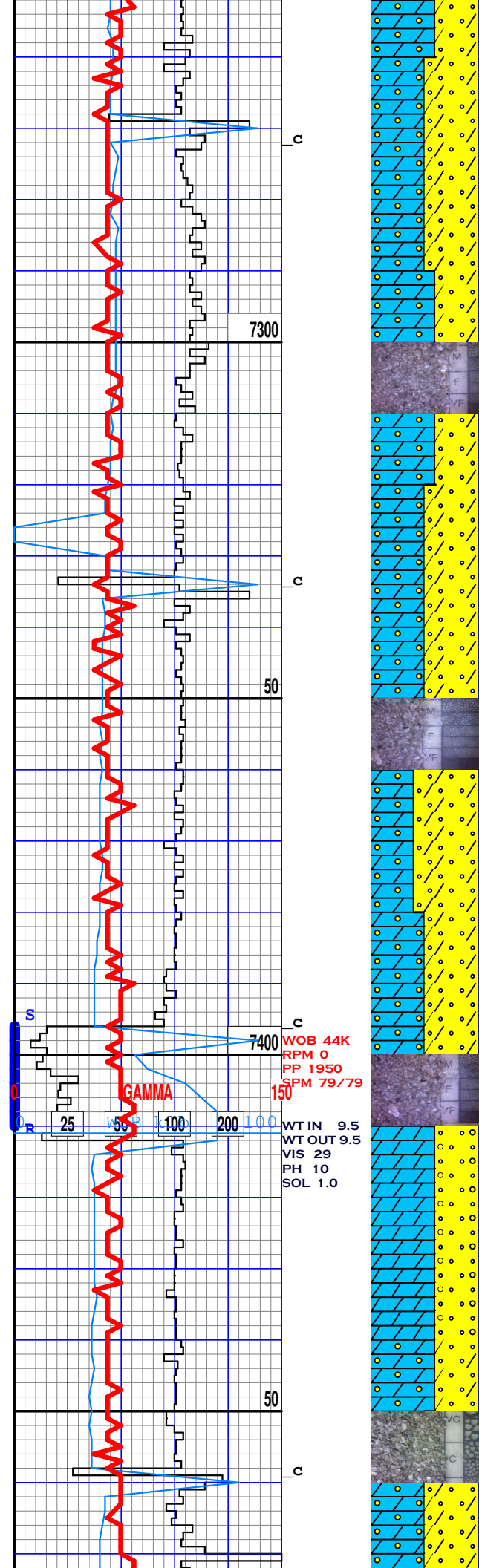
Lag Time 37.3

5369' 89.65° 89.21° 1943.65'

Lag Time 37.8

5371' 88.93° 87.73° 2006.14'

WOB 30K
 RPM 87
 PP 2050
 SPM 76/78
 150
 C
 WT IN 9.5
 WT OUT 9.5
 VIS 29
 PH 10
 SOL 1.0



DOL: LTBN-BRN BGE TN OFF
WHT-WHT, MODFRM-FRM SM
HD, BLKY, AREN IP, PRED
CALC, NO FLOR, F STRMNG
WET CUT W/BRI MLKY BLU
FLM, BRI GRNSH/YEL UNBRKN
RES RNGRES RNG

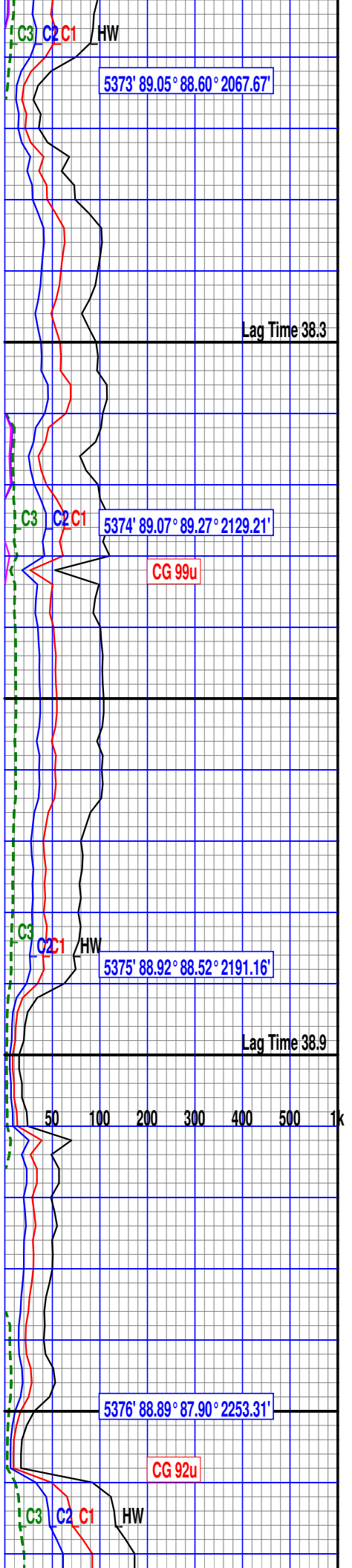
SS: LTBRN-BRN FRSTD LT
GRY OPAQ SM TRANSLU, MOD
FRM-FRM SM BRITT, VFN-FN
GN, SUBRND-SUBANG, MSRTD,
FRIA, PRED CONSOL W/DOLO
CMT, NO VIS FLOR, P
MILKY BLU STRMG WT CT,
GRNSH/YEL UNBRKN RES RNG

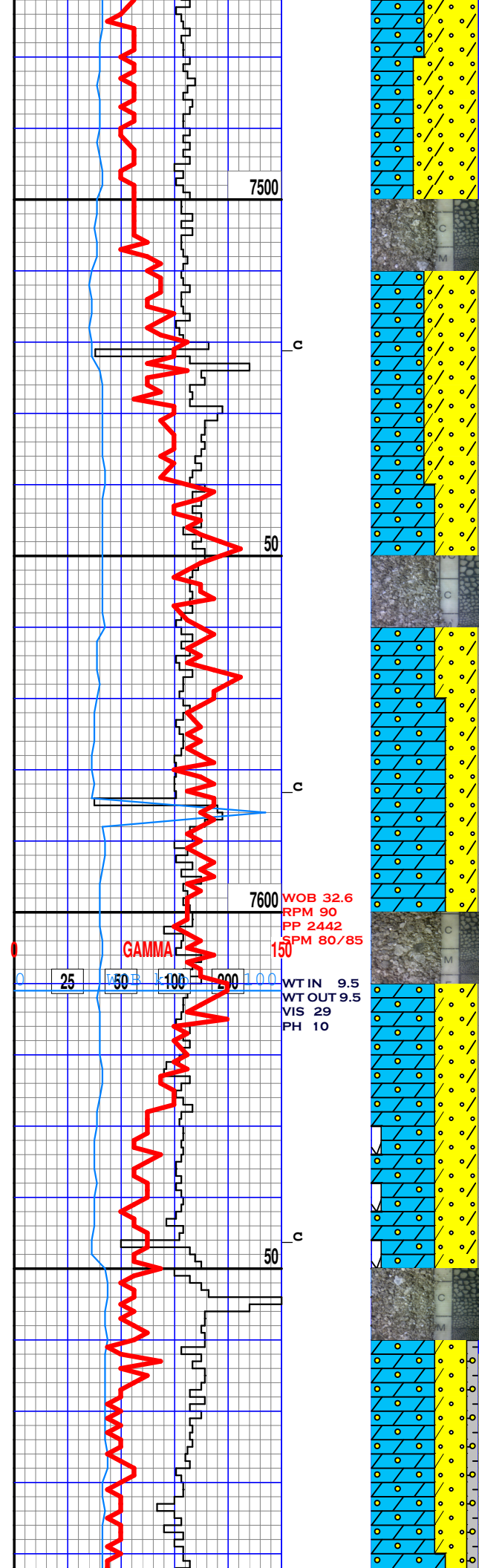
DOL: LTBN-BRN BGE TN OFF
WHT-WHT, MODFRM-FRM SM
BRITT, BLKY, AREN
FRMWRK, PRED SLI CALC,
NO FLOR, F STRMNG WET
CUT W/BRI MLKY BLU
FLM, BRI GRNSH/YEL UNBRKN
RES RNG

SS: LTBRN-BRN FRSTD LT
GRY OPAQ SM TRANSLU, MOD
FRM-FRM SM BRITT, VFN-FN
GN, SUBRND-SUBANG, MSRTD,
FRIA, PRED CONSOL W/DOLO
CMT, NO VIS FLOR, P
MILKY BLU STRMG WT CT,
GRNSH/YEL UNBRKN RES RNG

DOL: LTBN-BRN BGE TN OFF
WHT-WHT, MODFRM-FRM SM
HD, BLKY, AREN IP, PRED
CALC, NO FLOR, F STRMNG
WET CUT W/BRI MLKY BLU
FLM, BRI GRNSH/YEL UNBRKN
RES RNGRES RNG

SS: LTBRN-BRN FRSTD LT
GRY OPAQ SM TRANSLU, MOD
FRM-FRM SM BRITT, VFN-FN
GN, SUBRND-SUBANG, MSRTD,
FRIA, PRED CONSOL W/DOLO
CMT, NO VIS FLOR, P
MILKY BLU STRMG WT CT,
GRNSH/YEL UNBRKN RES RNG





DOL: LTBN-BRN BGE TN OFF
WHT-WHT, MODFRM-FRM SM
BRIT, BLKY AREN
FRMWRK, PRED SLI CALC,
NO FLOR, F STRMNG WET
CUT W/BRI MLKY BLU
FLM, BRI GRNSH/YEL UNBRKN
RES RNG

R. SPARGO TOUR 4/10/2017

SS: FRSTY OPAQ TRANSL
V/LTBN LTBN BGE TN, V/F
GRN OCC F, SUBANG TO
ANG, PREDOM P-LOSLY
CONS TO UNCONS, DOLO
CMT, PREDOM SLI CALC, W
SRTD, TT-PP VIS POR, NO
STN, NO FLOR, 20% PA YEL
O FLOR, F STRMNG WET CUT
W/BRI MLKY BLU FLM,
V/BRI GRNSH/YEL UNBRKN
RES RNG, PA YEL STN.

DOL: V/LTBN LTBN BGE TN
OCC BN, SUBBLKY TO BLKY,
SLI GRTY TO GRTY TXT
FRM TO BRIT TO HD, AREN-
MICROXLN FRMWRK, AREN,
PREDOM SLI CALC, TT-PP
VIS POR, NO FLOR, 20% PA YEL
O FLOR, F STRMNG WET CUT
W/BRI MLKY BLU FLM, V/
BRI GRNSH/YEL UNBRKN RES
RNG, PA YEL STN.

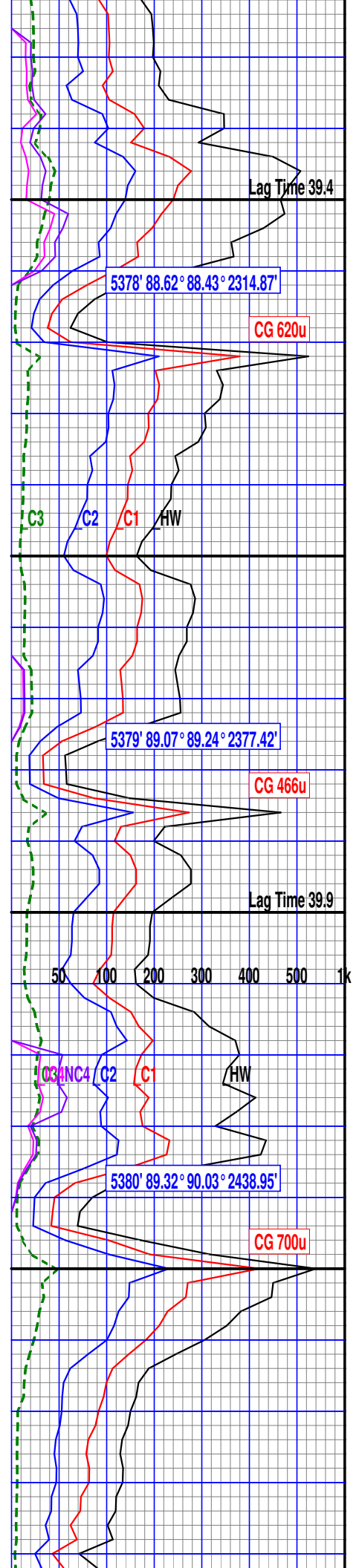
SS: V/LTBN LTBN BGE TN
FRSTY OPAQ TRANSL, V/F
GRN OCC F, SUBANG TO
ANG, PREDOM P CONS TO
UNCONS, DOLO CMT, PREDOM
SLI CALC, W SRTD, TT-PP
VIS POR, NO STN, TR BRI
YEL FLOR, 30% PA YEL
O FLOR, F STRMNG WET CUT
W/BRI MLKY BLU FLM, V/
BRI GRNSH/YEL UNBRKN RES
RNG, PA YEL STN.

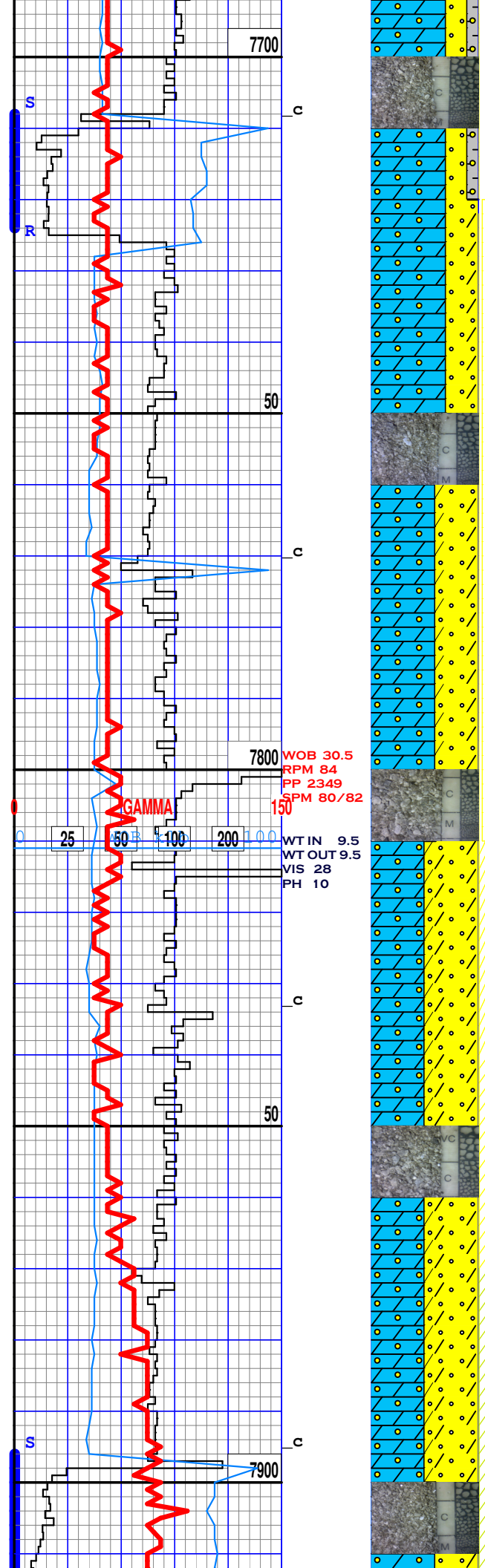
DOL: V/LTBN LTBN BGE TN
OCC BN, SUBBLKY TO BLKY,
SLI GRTY TO GRTY TXT
FRM TO BRIT TO HD, AREN-
MICROXLN FRMWRK, AREN,
PREDOM SLI CALC, NO VIS
POR, TR BRI YEL FLOR,
40% PA YEL O FLOR, F
STRMNG WET CUT W/BRI
MLKY BLU FLM, V/BRI
GRNSH/YEL UNBRKN RES
RNG, PA YEL STN.

ANHY: WHT TRANSL FRSTY,
V/FXLN, SUBBLKY, CLN,
FRI TO FRM, SLI SMTH,
TXT, NO VIS POR, NO STN,
TR BRI YEL FLOR, 40% PA
YEL O FLOR, F STRMNG WET
CUT W/BRI MLKY BLU FLM,
V/BRI GRNSH/YEL UNBRKN
RES RNG, PA YEL STN.

SH: MEDGY GY OCC DRKGY-
GYSBLK, GRTY TO SLI
GRTY TXT, FRI TO FRM,
AREN, NON CARB, PREDOM
SILC, TR SLI CALC, TR
BRI YEL FLOR, 20% PA
YEL O FLOR, SLW P BLMNG
WET CUT W/SLI MLKY BLU
FLM, BRI GRNSH/YEL
UNBRKN RES RNG, PA YEL
STN.

SS: V/LTBN LTBN BGE TN





FRSTY OPAQ TRANSL, V/F GRN OCC F, SUBANG TO ANG, PREDOM P CONS TO UNCONS, DOLO CMT, PREDOM SLI CALC, W SRTD, TT VIS POR, NO STN, NO FLOR, 20% PA YEL O FLOR, SLW P BLMNG WET CUT W/ SLI MLKY BLU FLM, BRI GRNSH/YEL UNBRKN RES RNG, PA YEL STN.

DOL: BN LTBN V/LTBN BGE TN, SUBBLKY TO BLKY, SLI GRTY TO GRTY TXT, FRM TO BRIT TO HD, AREN-MICROXLN FRMWRK, AREN, PREDOM SLI CALC, NO VIS POR, NO FLOR, 10% PA YEL O FLOR, SLW P BLMNG WET CUT W/SLI MLKY BLU FLM, BRI GRNSH/YEL UNBRKN RES RNG, PA YEL STN.

SS: FRSTY OPAQ TRANSL V/LTBN BGE TN, V/F GRN OCC F, SUBANG TO ANG, PREDOM P CONS TO UNCONS, DOLO CMT, PREDOM SLI CALC, W SRTD, TT VIS POR, NO STN, NO FLOR, 10% PA YEL O FLOR, SLW P BLMNG WET CUT W/SLI MLKY BLU FLM, BRI GRNSH/YEL UNBRKN RES RNG, PA YEL STN.

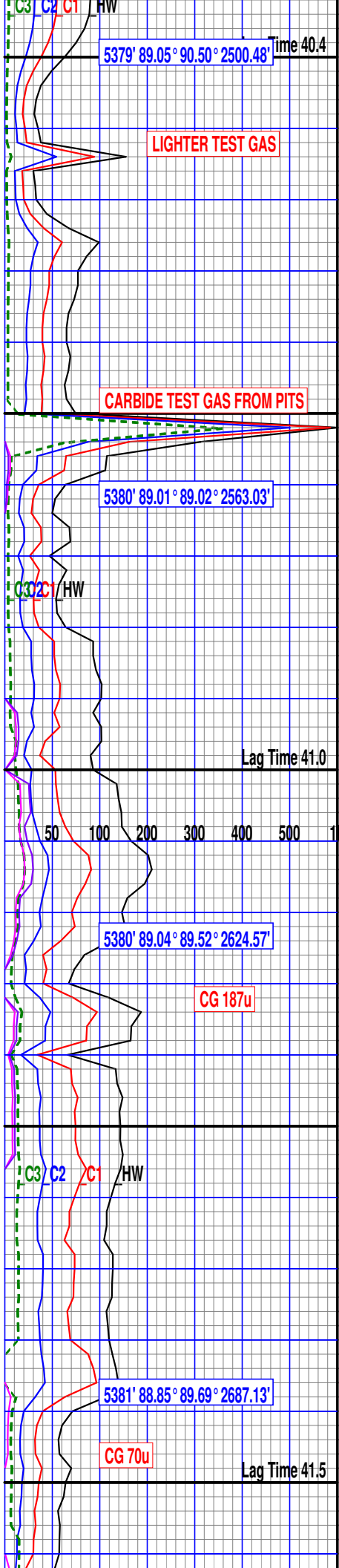
DOL: LTBN V/LTBN BGE TN, SUBBLKY TO BLKY, SLI GRTY TO GRTY TXT, FRM TO BRIT TO HD, AREN-MICROXLN FRMWRK, AREN, PREDOM SLI CALC, NO VIS POR, NO FLOR, 10% PA YEL O FLOR, SLW P BLMNG WET CUT W/SLI MLKY BLU FLM, BRI GRNSH/YEL UNBRKN RES RNG, PA YEL STN.

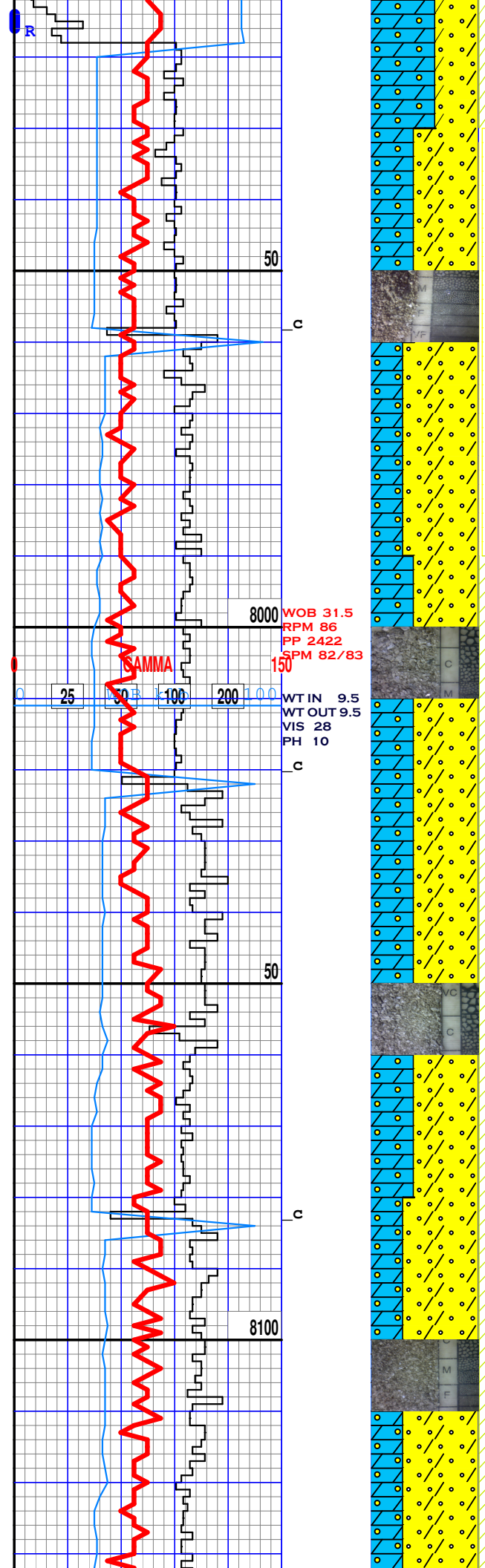
SS: FRSTY OPAQ TRANSL V/LTBN BGE TN, V/F GRN OCC F, SUBANG TO ANG, PREDOM P CONS TO UNCONS, DOLO CMT, PREDOM SLI CALC, W SRTD, TT VIS POR, NO STN, NO FLOR, 20% PA YEL O FLOR, SLW P BLMNG WET CUT W/SLI MLKY BLU FLM, BRI GRNSH/YEL UNBRKN RES RNG, PA YEL STN.

DOL: LTBN V/LTBN BGE TN, SUBBLKY TO BLKY, SLI GRTY TO GRTY TXT, FRM TO BRIT TO HD, AREN-MICROXLN FRMWRK, AREN, PREDOM SLI CALC, NO VIS POR, NO FLOR, 30% PA YEL O FLOR, SLW P BLMNG WET CUT W/SLI MLKY BLU FLM, BRI GRNSH/YEL UNBRKN RES RNG, PA YEL STN.

SS: FRSTY OPAQ TRANSL V/LTBN BGE TN, V/F GRN OCC F, SUBANG TO ANG, PREDOM P CONS TO UNCONS, DOLO CMT, PREDOM SLI CALC, W SRTD, TT VIS POR, NO STN, NO FLOR, 30% PA YELSH/GRN O FLOR, SLW P BLMNG WET CUT W/ SLI MLKY BLU FLM, BRI GRNSH/YEL UNBRKN RES RNG, PA YEL STN.

DOL: LTBN V/LTBN BGE TN, SUBBLKY TO BLKY, SLI GRTY TO GRTY TXT, FRM TO BRIT TO HD, AREN-MICROXLN FRMWRK, AREN, PREDOM SLI CALC, NO VIS





POR, TRBRI YEL FLOR, 30% PA YELSH/GRN O FLOR, SLW P BLMNG WET CUT W/ SLI MLKY BLU FLM, BRI GRNSH/YEL UNBRKN RES RNG, PA YEL STN.

SS: OPAQ V/LTBN LT BN BGE TN TRANSL FRSTY, V/F GRN SUBANG TO ANG, PREDOM UNCONS TO P CONS, DOLO CMT, PREDOM SLI CALC, W SRTD, NO VIS POR, NO STN, NO FLOR, 10% V/PA YEL O FLOR, SLW P BLMNG WET CUT W/ SLI MLKY BLU FLM, BRI GRNSH/YEL UNBRKN RES RNG, PA YEL STN.

DOL: LTBN V/LTBN BGE TN, SUBBLKY TO BLKY, SLI GRTY TO GRTY TXT, FRM TO BRIT TO HD, AREN-MICROXLN FRMWRK, AREN, PREDOM SLI CALC, NO VIS POR, NO FLOR, 10% V/PA YEL O FLOR, SLW P BLMNG WET CUT W/SLI MLKY BLU FLM, BRI GRNSH/YEL UNBRKN RES RNG, PA YEL STN.

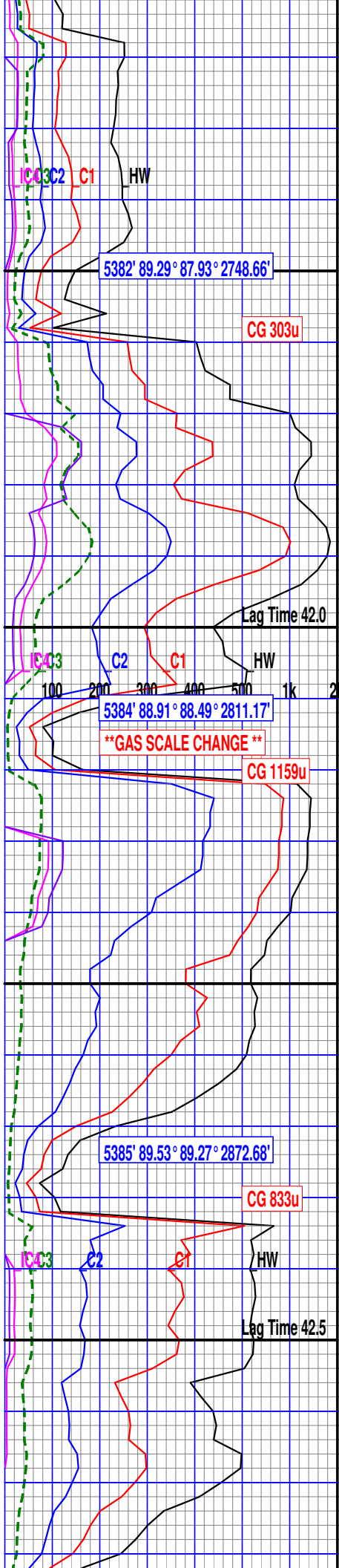
SS: OPAQ V/LTBN LT BN BGE TN TRANSL FRSTY, V/F GRN SUBANG TO ANG, PREDOM UNCONS TO P CONS, DOLO CMT, PREDOM SLI CALC, W SRTD, NO VIS POR, NO STN, NO FLOR, 40% YELSH/GRN O FLOR, F STRMNG WET CUT W/MLKY BLU FLM, THCK BRI GRNSH/YEL UNBRKN RES RNG, SOLID GRNSH/YEL STN.

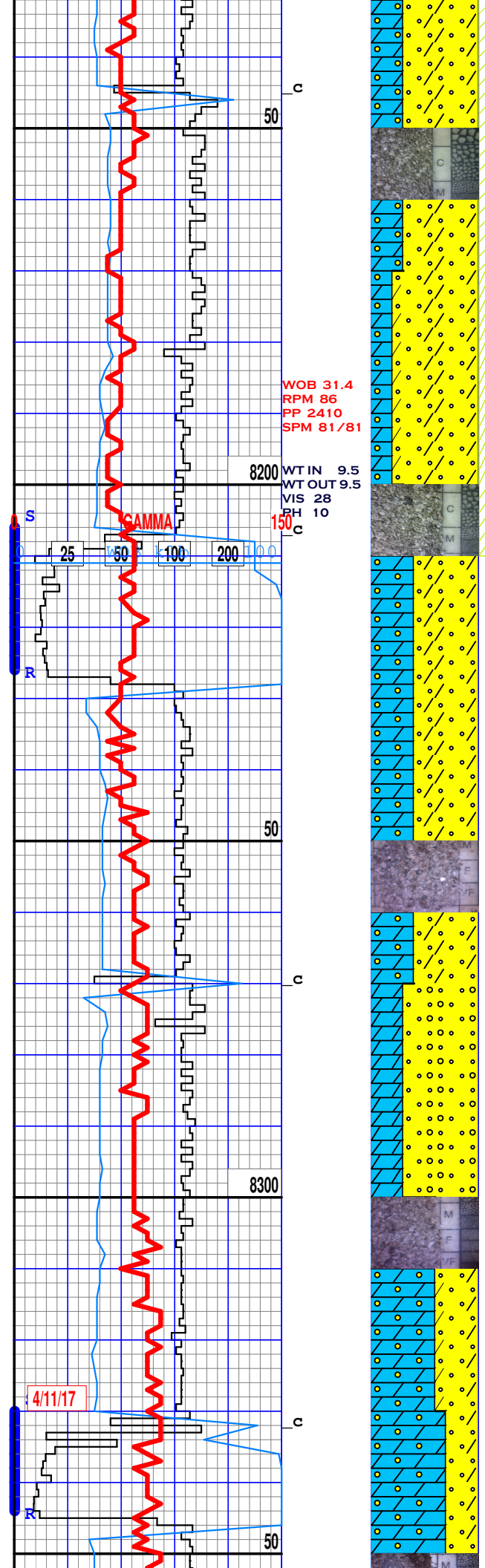
DOL: LTBN V/LTBN BGE TN, SUBBLKY TO BLKY, SLI GRTY TO GRTY TXT, FRM TO BRIT TO HD, AREN-MICROXLN FRMWRK, AREN, PREDOM SLI CALC, NO VIS POR, NO FLOR, 40% YELSH/GRN O FLOR, F STRMNG WET CUT W/MLKY BLU FLM, THCK BRI GRNSH/YEL UNBRKN RES RNG, SOLID GRNSH/YEL STN.

SS: OPAQ V/LTBN LT BN BGE TN TRANSL FRSTY, V/F GRN SUBANG TO ANG, PREDOM UNCONS TO P CONS, DOLO CMT, PREDOM SLI CALC, W SRTD, NO VIS POR, NO STN, NO FLOR, 40% YELSH/GRN O FLOR, F STRMNG WET CUT W/MLKY BLU FLM, THCK BRI GRNSH/YEL UNBRKN RES RNG, SOLID GRNSH/YEL STN.

DOL: LTBN V/LTBN BGE TN, SUBBLKY TO BLKY, SLI GRTY TO GRTY TXT, FRM TO BRIT TO HD, AREN-MICROXLN FRMWRK, AREN, PREDOM SLI CALC, NO VIS POR, NO FLOR, 40% YELSH/GRN O FLOR, F STRMNG WET CUT W/MLKY BLU FLM, THCK BRI GRNSH/YEL UNBRKN RES RNG, SOLID GRNSH/YEL STN.

SS: OPAQ V/LTBN LT BN BGE TN TRANSL FRSTY, V/F GRN SUBANG TO ANG, PREDOM UNCONS TO P CONS, DOLO CMT, PREDOM SLI CALC, W SRTD, NO VIS POR, NO STN, NO FLOR, 40% YELSH/GRN O FLOR, F STRMNG WET CUT W/MLKY BLU FLM, THCK BRI GRNSH/YEL UNBRKN RES RNG.





SOLID GRNSH/YEL STN.

DOL: LTBN V/LTBN BGE TN, SUBBLKY TO BLKY, SLI GRTY TO GRTY TXT, FRM TO BRIT TO HD, AREN-MICROXLN FRMWRK, AREN, PREDOM SLI CALC, NO VIS POR, NO FLOR, 40% YELSH/GRN O FLOR, SLW P WET CUT W/FNT MLKY BLU FLM, THN BRI GRNSH/YEL UNBRKN RES RNG, PA GRNSH/YEL STN.

SS: FRSTY OPAQ TRANSL LTBN V/LTBN BGE TN, V/F TO F GRN, SUBANG TO ANG, PREDOM P-MOD CONS SCAT UNCONS, DOLO CMT, PREDOM SLI CALC, W SRTD, NO VIS POR, NO STN, NO FLOR, 20% YELSH/GRN O FLOR, SLW P WET CUT W/FNT MLKY BLU FLM, THN BRI GRNSH/YEL UNBRKN RES RNG, PA GRNSH/YEL STN.

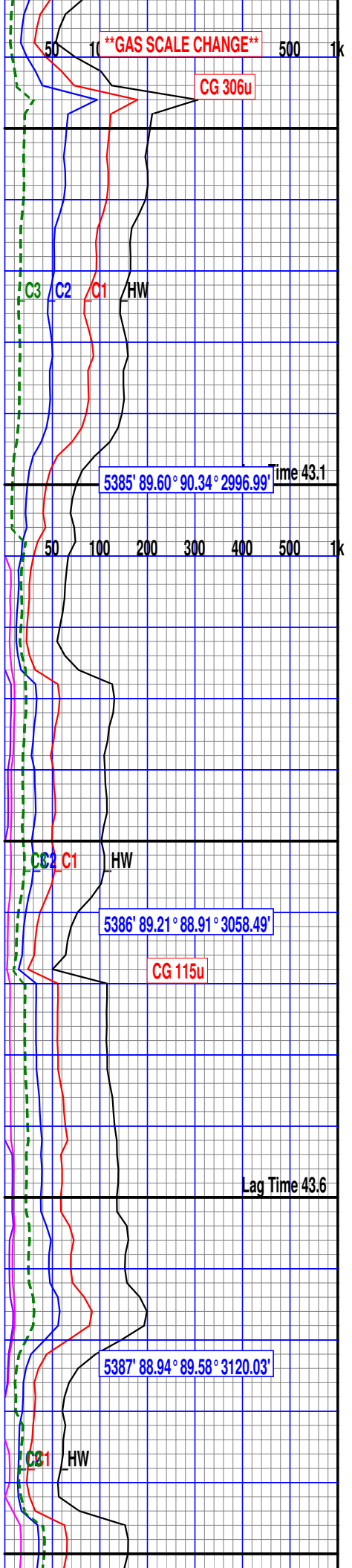
G PAINTER'S TOUR 4/11/2017

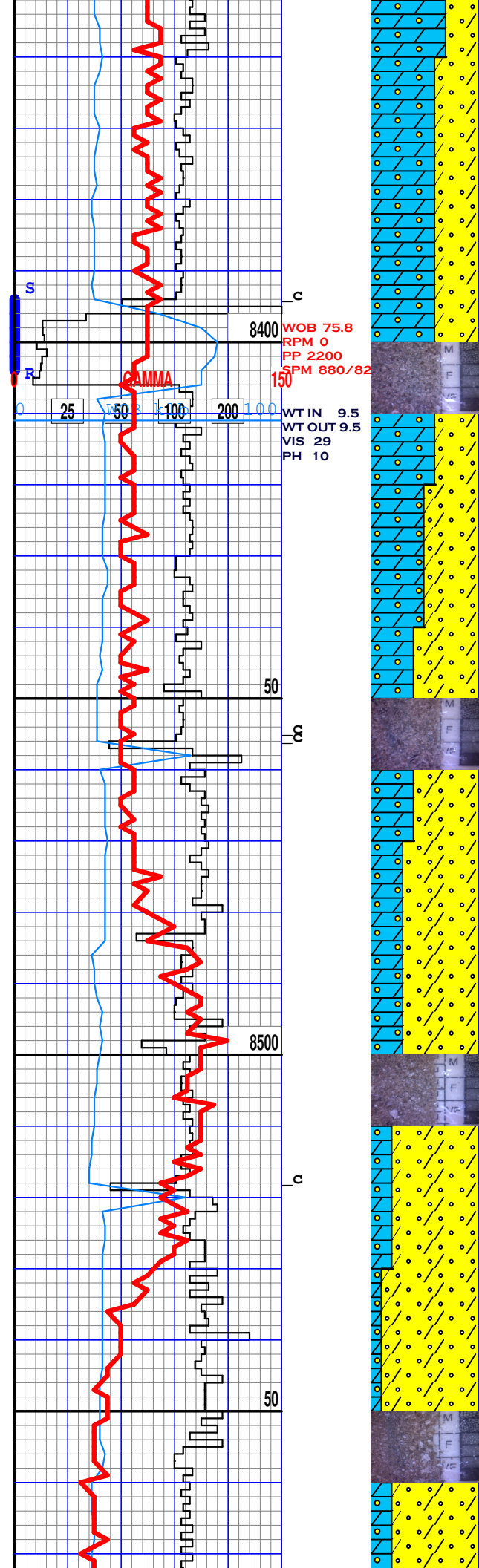
DOLO LT BRN-BRN TN BGE OFF WHT-WHT CRM SM BLK, MODFRM-FRM SM HD, CHLKY, V/FN-MICROXLN, SUCR O IP, AREN, T BLUSH/GRN SLOW WT CUT, DULL GRNSH YEL RES RNG

SS: CRM TN LT BRN FRSTD OCC GRY TRANSLU, MOD FRM-FRM SM HD, V/FN-FN GN, FRI, PRED CONSOL SIL CMT SUBRND-SUBANG, NO FLOR, T BLUSH/GRN WT CUT, DULL GRNSH/YEL RES RNG

DOLO: LT BRN-BRN BGE BFF OFF WHT-WHT CRM SM BLK, MODFRM-FRM SM CHLKY, CHLKY, V/FN-MICROXLN, SUCR O IP, AREN, P BLUSH/GRN FST WT CUT, BRT GRNSH/YEL RES RNG

SS: LT TN TN BRN CRM OFFWHT OCC OPAQ, SFT-MOD FRM SM HD, VFN-FNCR, SUBRND-SUNANG, MSRTD, PRED CONSOL W/CALC CMT, SM V/FNLY PYRITIC, DOL IC, NO FLOR, T BLUSH/GRN SLOW WT CUT, GRNSH/YEL RES RNG





DOLO LT BRN-BRN TN BGE
OFF WHT-WHT CRM SM BLK,
MODFRM-FRM SM HD
CHLKY, V/FN-MICROXLN, SUCR
O IP, AREN, P BLUSH/GRN
SLOW WT CUT, BRT GRNSH/
YEL RES RNG

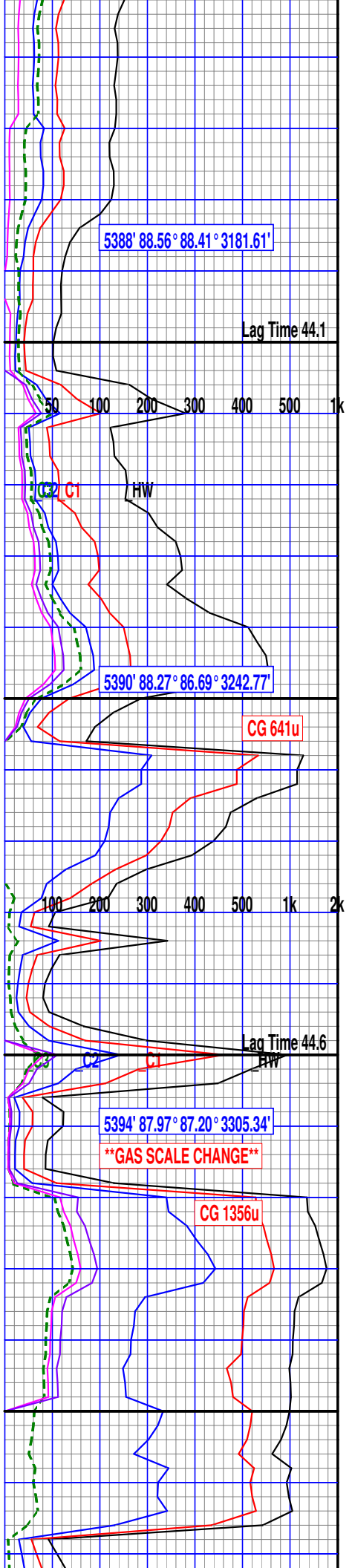
SS: CRM TN LT BRN FRSTD
OCC GRY TRANSLU, MOD
FRM-FRM SM HD, V/FN-FN
GN, FRI, PRED CONSOL SIL
CMT SUBRND-SUBANG, NO
FLOR, P BLUSH/GRN FST WET
CUT, BRT GRNSH/YEL RES
RNG

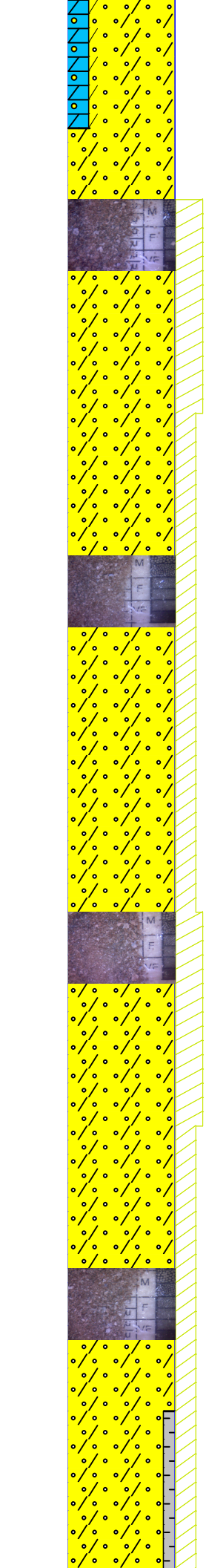
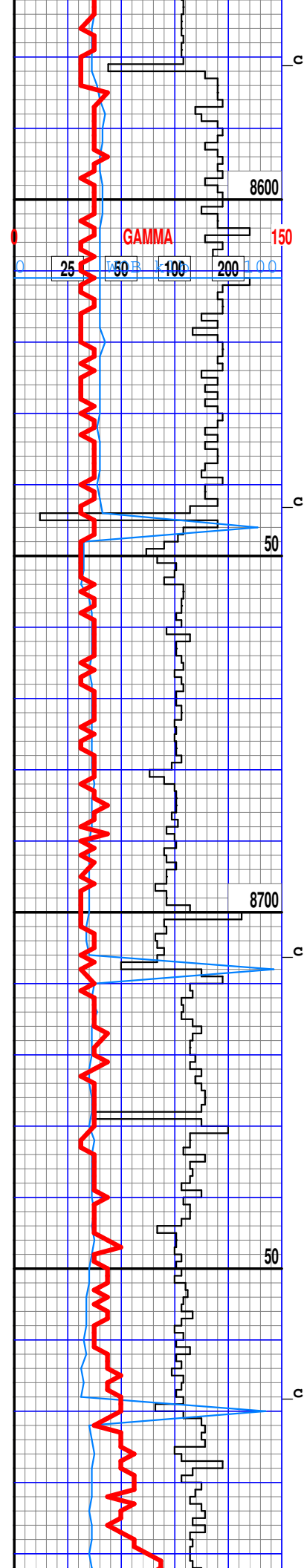
DOLO: LT BRN-BRN BGE BFF
OFF WHT-WHT CRM SM BLK,
MODFRM-FRM SM CHLKY
PLTY, V/FN-MICROXLN, SUCR
O IP, AREN, P BLUSH/GRN
STRMG WT CUT, BRT NEON
GRN RES RNG

SS: LT BRN RN BRN CRM
OFF WHT OPAQ SM WHT, MOD
FRM-FRM SM HD, V/FN-FN
GN, SUBRND-SUBANG, BLKY
PLTY, PRED CONSOL
W/DOL CMT SM UNCONSOL,
FRI, DOLIC TR MICA, TR
PORO, NO FLOR, BRT BLUSH
GR STRMG WT CUT, NEON GR
RES RNG

DOLO LT BRN-BRN TN BGE
OFF WHT-WHT CRM SM LT
GRY-GY, MODFRM-FRM SM HD
CHLKY, V/FN-MICROXLN, SUCR
O IP, AREN, NO FLOR, P
BLUSH/GRN FST STRMG WT
CUT, BRT NEON GRN UNBRKN
RES RNG

SS: LT BRN-BRN CRM FRSTD
OFF WHT OPAQ SM WHT, MOD
FRM-FRM SM HD, V/FN-FN
GN, SUBRND-SUBANG, BLKY
PLTY, PRED CONSOL
W/DOL CMT SM UNCONSOL,
FRI, DOLIC TR PORO, NO
FLOR, BRT BLUSH GR STRMG
WT CUT, NEON GR
RES RNG





DOLO: LT BRN-BRN BGE BFF
 OFF WHT-WHT CRM SM BLK,
 MODFRM-FRM SM CHLKY
 PLTY, V/FN-MICROXLN, SUCR
 O IP, AREN, P BLUSH/GRN
 STRMG WT CUT, BRT NEON
 GRN RES RNG

SS: CRM LTTN-TN OPAQ CLR
 TRANSLU, SFT-MOD FRM SM
 HD, V/FN-FN GR, PRED
 CONSOL W CALC CMT SM
 UNCONSOL, DOLOIC, TR
 MICA, 80% F FLOR, FBRT
 MEON GRN FAS STRMG WT
 CUT

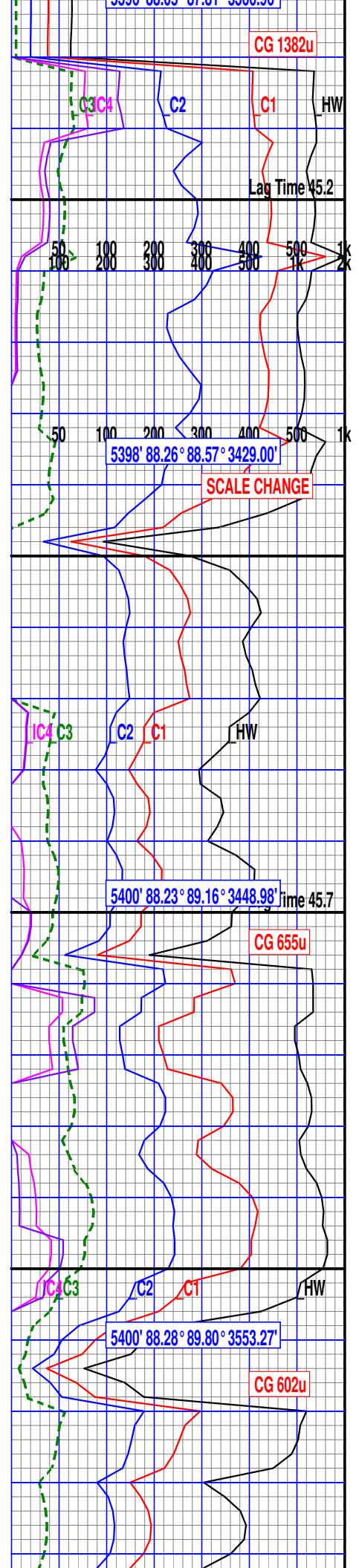
SS: CRM OPAQ LTTN-TN CLR
 TRANSLU, SFT-MOD FRM SM
 HD, V/FN-FN GR, PRED
 CONSOL W CALC CMT SM
 UNCONSOL, DOLO, TR MICA,
 60% F FLOR, F BRT BLUSH
 GRN FAS STRMG WT CUT

SS: CRM LTTN-TN CLR OPAQ
 TRANSLU, SFT-MOD FRMSM
 BRITT V/FN-FN GR, PRED
 CONSOL W CALC CMT, DOLO,
 TR MICA, 60% F FLOR, F BRT
 BLUSH GRN FST STRMG WT
 CUT

SS: LTTN-TN CRM BFF OPAQ
 TRANSLU, SFT-MOD FRMSM
 BRITT V/FN-FN GR, PRED
 CONSOL W SIL CMT, DOLO,
 TR MICA, 80% F PL ORG
 FLOR, F BRT NEON GRN FST
 STRMG WT CUT

SS: CRM FRSTD LTTN-TN SM
 BFF SM TRANSLU, SFT-MOD
 FRM SM BRITT, SUBRND-
 SUBANG, PRED CONSOL W/
 CALC CMT SM UNCONSOL
 FRI, DOLO IC SM V/FNLY
 PYRITIC, 60% F DULL ORNG
 FLOR, F BRT BLUSH/GRN
 STRMG WT CUT

SH: BLK DRK BRN BRN, MOD
 FRM-FRM SM HD, BLKY PLTY
 RTHY, AREN, CALC IP



R. SPARGO TOUR 4/11/2017

Lag Time 46.2

ANHY: CLR FRSTY OPAQ
TRANSL, V/FXLN, SUBBLKY,
CLN FRI TO FRM, SLI
SMTH TXT, NO VIS POR, NO
STN, NO FLOR, 40% PA
YELSH/GRN O FLOR, F
BLMNG WET CUT W/BRI MLKY
BLU FLM, THCK V/BRI GRN
UNBRKN RES RNG, FNT PA
GRNSH STN.

SLT: LTGY MEDGY GY, SFT
TO SM FRI, V/FN GRN, V/W
SRTD, PREDOM SLI CALC
CMT, ARG IP, NON CARB,
NO VIS POR, NO STN, TR
BRI YEL FLOR, 60% PA
YELSH/GRN O FLOR, F
BLMNG WET CUT W/BRI MLKY
BLU FLM, THCK V/BRI GRN
UNBRKN RES RNG, FNT PA
GRNSH STN.

SH: V/DRKGY DRKGY GY, F
TO SLI GRTY TXT, FRI TO
FRM, AREN, NON CARB,
PREDOM SLI CALC, TR
SILC, TR BRI YEL FLOR,
60% PA YELSH/GRN O FLOR,
F BLMNG WET CUT W/BRI
MLKY BLU FLM, THCK V/BRI
GRN UNBRKN RES RNG, FNT
PA GRNSH STN.

GAS SCALE CHANGE @ 8900

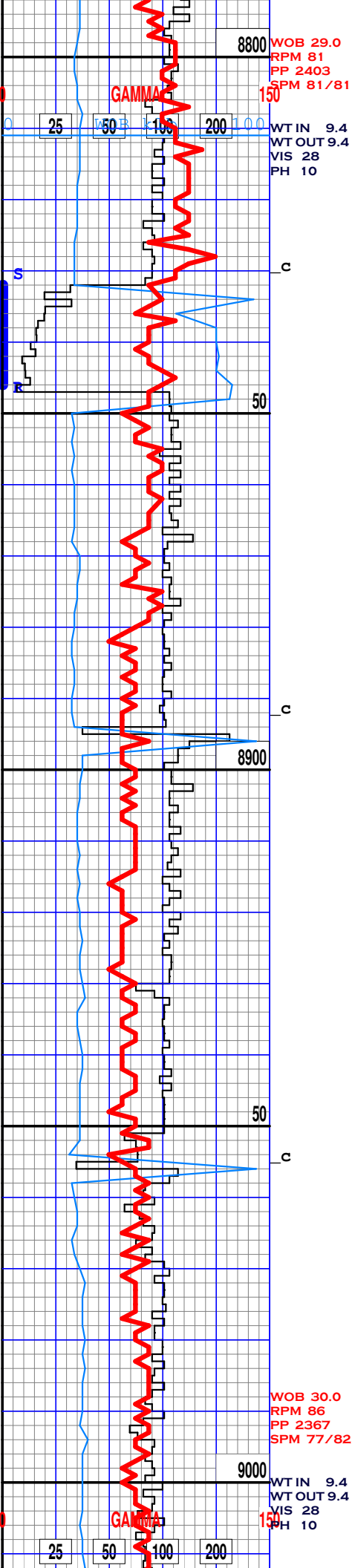
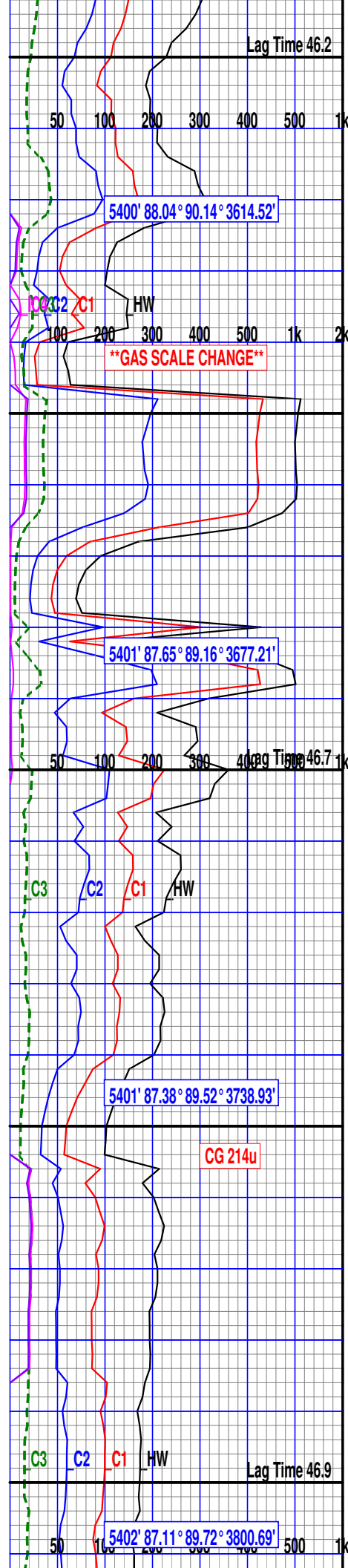
SS: OPAQ TRANSL V/LTBN
BGE TN FRSTY, V/F TO F
GRN, SUBANG TO ANG,
PREDOM P CONS, SCAT
UNCONS, CALC CMT, PREDOM
MOD CALC, W SRTD, TT-PP-
INTERGRN VIS POR, NO
STN, NO FLOR, 60% PA
YELSH/GRN O FLOR, F
BLMNG WET CUT W/BRI MLKY
BLU FLM, THCK V/BRI GRN
UNBRKN RES RNG, FNT PA
GRNSH STN.

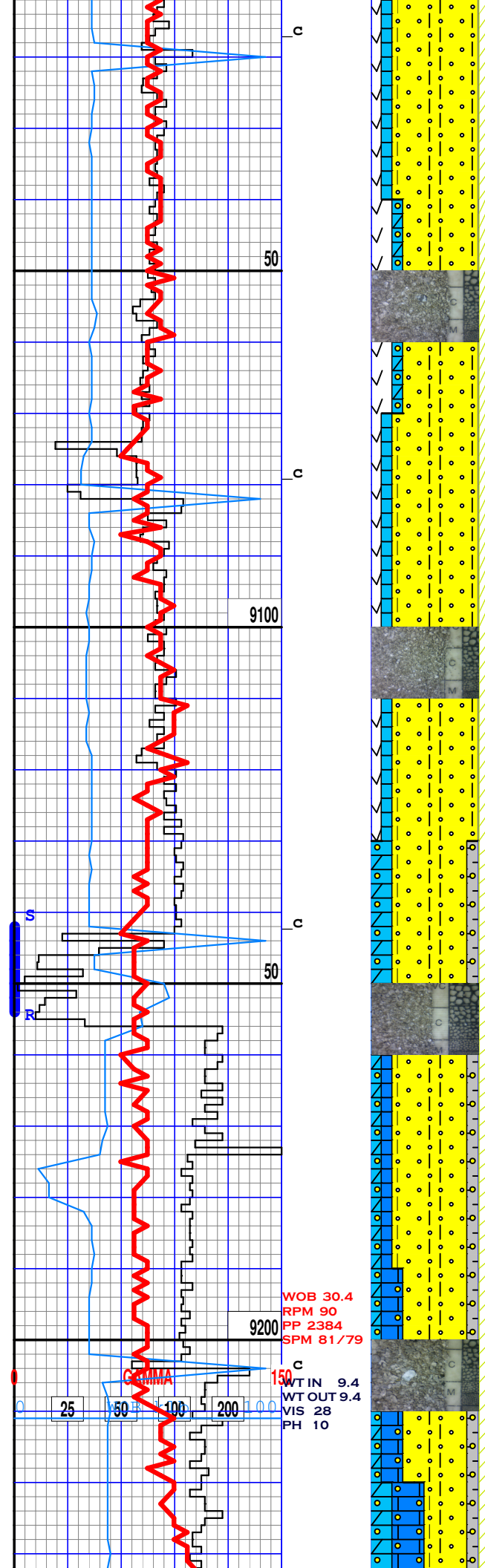
DOL: V/LTBN BGE TN,
SUBBLKY TO BLKY, SLI
GRTY TXT, FRM TO BRIT TO
HD, AREN FRMWRK, AREN,
PREDOM SLI-MOD CALC, TT
VIS POR, NO FLOR, 70% PA
YELSH/GRN O FLOR, F
BLMNG WET CUT W/BRI MLKY
BLU FLM, THCK V/BRI GRN
UNBRKN RES RNG, FNT PA
GRNSH STN.

ANHY: FRSTY OPAQ TRANSL
OCC CLR, V/FXLN, BLKY TO
SUBBLKY, CLN, FRI TO
FRM, SLI SMTH TXT, NO
VIS POR, NO STN, NO
FLOR, 40% PA YELSH/GRN O
FLOR, F BLMNG WET CUT
W/BRI MLKY BLU FLM, THCK
V/BRI GRN UNBRKN RES
RNG, FNT PA GRNSH STN.

SS: OPAQ TRANSL V/LTBN
BGE FRSTY, V/F TO F GRN,
SUBANG TO ANG, PREDOM P
CONS, SCAT UNCONS, CALC
CMT, PREDOM MOD CALC, W
SRTD, TT-PP-INTERGRN VIS
POR, NO STN, NO FLOR,
50% PA YELSH/GRN O FLOR,
P BLMNG WET CUT W/FNT
MLKY BLU FLM, BRI GRN
UNBRKN RES RNG, FNT PA
GRNSH STN.

DOL: V/LTBN BGE TN,





SUBBLKY TO BLKY, SLI GRTY TXT, FRM TO BRIT TO HD, AREN FRMWRK, AREN, PREDOM SLI-MOD CALC, TT VIS POR, NO FLOR, 30% PA YELSH/GRN O FLOR, P BLMNG WET CUT W/FNT MLKY BLU FLM, BRI GRN UNBRKN RES RNG, FNT PA GRNSH STN.

ANHY: FRSTY OPAQ TRANSL, V/FXLN, BLKY TO SUBBLKY, CLN FRI TO FRM, SLI SMTH TXT, NO VIS POR, NO STN, NO FLOR, 20% PA YELSH/GRN O FLOR, SLW P WET CUT W/FNT MLKY BLU FLM, BRI GRN BRKN RES RNG, FNT PA GRNSH STN.

SS: OPAQ TRANSL V/LTBN BGE FRSTY, V/F TO F GRN, SUBANG TO ANG, PREDOM P CONS, SCAT UNCONS, CALC CMT, PREDOM MOD CALC, W SRTD, TT-PP-INTERGRN VIS POR, NO STN, NO FLOR, 20% PA YELSH/GRN O FLOR, SLW P WET CUT W/FNT MLKY BLU FLM, BRI GRN BRKN RES RNG, FNT PA GRNSH STN.

****GAS SCALE CHANGE @ 9120****

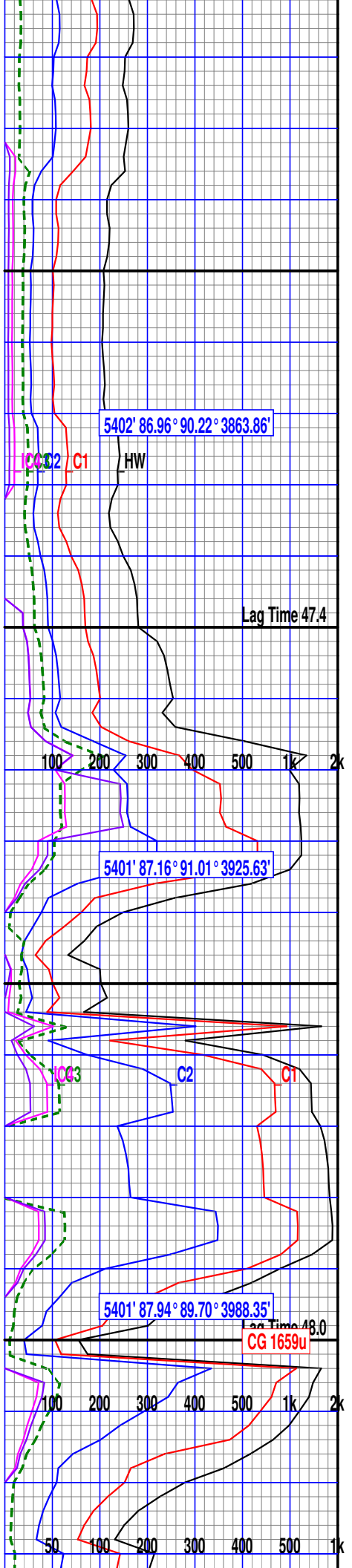
DOL: V/LTBN BGE TN, SUBBLKY TO BLKY, SLI GRTY TXT, FRM TO BRIT TO HD, AREN FRMWRK, AREN, PREDOM SLI-MOD CALC, TT VIS POR, NO FLOR, 30% PA YELSH/GRN O FLOR, SLW P WET CUT W/FNT MLKY BLU FLM, BRI GRN BRKN RES RNG, FNT PA GRNSH STN.

SH: MEDGY GY GYSHBN, F TO SLI GRTY TXT, FRI TO FRM, AREN, NON CARB, PREDOM SLI CALC, NO FLOR, 60% PA YELSH/GRN O FLOR, F STRMNG WET CUT W/BRI MLKY BLU FLM, THCK V/BRI GRN UNBRKN RES RNG, FNT PA GRNSH STN.

LS: WHT OFFWHT, FLKY TO SUBBLKY, V/FXLN TO FXLN, SFT TO FRI TO FRM, AREN-CHLKY FRMWRK, V/AREN, PP-INTERXLN-INTERGRN VIS POR, NO STN, NO FLOR, 50% PA YELSH/GRN O FLOR, F STRMNG WET CUT W/BRI MLKY BLU FLM, THCK V/BRI GRN UNBRKN RES RNG, FNT PA GRNSH STN.

SS: OPAQ TRANSL V/LTBN BGE FRSTY, V/F TO F GRN, SUBANG TO ANG, PREDOM P CONS, SCAT UNCONS, CALC CMT, PREDOM MOD CALC, W SRTD, TT-PP-INTERGRN VIS POR, NO STN, NO FLOR, 40% PA YELSH/GRN O FLOR, F STRMNG WET CUT W/BRI MLKY BLU FLM, THCK V/BRI GRN UNBRKN RES RNG, FNT PA GRNSH STN.

SH: MEDGY GY GYSHBN, F TO SLI GRTY TXT, FRI TO FRM, AREN, NON CARB, PREDOM SLI CALC, NO FLOR, 40% PA YELSH/GRN O FLOR, F STRMNG WET CUT



5402' 86.96° 90.22° 3863.86'

Lag Time 47.4

5401' 87.16° 91.01° 3925.63'

5401' 87.94° 89.70° 3988.35'

Lag Time 48.0

CG 1659u

WOB 30.4
RPM 90
PP 2384
SPM 81/79

WT IN 9.4
WT OUT 9.4
VIS 28
PH 10

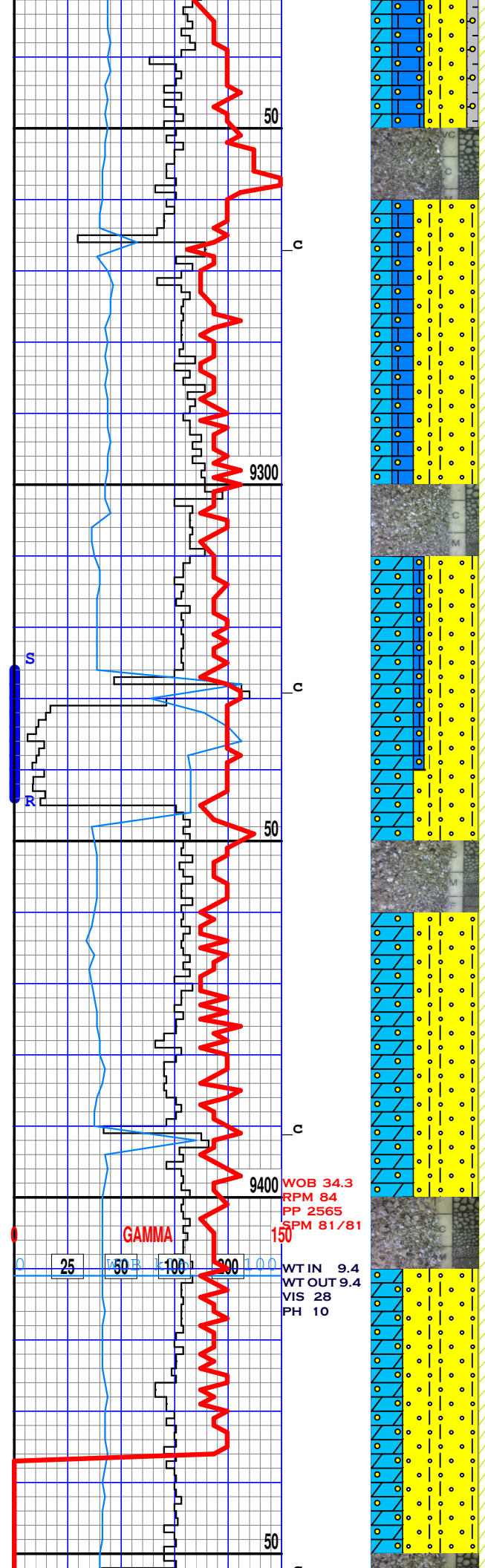
GAMMA

25 50 100 200 100 100

100 200 300 400 500 1k 2k

100 200 300 400 500 1k 2k

50 100 200 300 400 500 1k



W/BRI MLKY BLU FLM, THCK V/BRI GRN UNBRKN RES RNG, FNT PA GRNSH STN.

DOL: V/LTBN BGE TN, SUBBLKY TO BLKY, SLI GRTY TXT, FRM TO BRIT TO HD, AREN FRMWRK, AREN, PREDOM SLI-MOD CALC TT VIS POR, NO FLOR, 40% PA YELSH/GRN O FLOR, F STRMNG WET CUT W/BRI MLKY BLU FLM, THCK V/BRI GRN UNBRKN RES RNG, FNT PA GRNSH STN.

LS: WHT OFFWHT, FLKY TO SUBBLKY, V/FXLN TO FXLN, SFT TO FRI TO FRM, AREN-CHLKY FRMWRK, V/AREN, PP-INTERXLN-INTERGRN VIS POR, NO STN, NO FLOR, 40% PA YELSH/GRN O FLOR, F STRMNG WET CUT W/BRI MLKY BLU FLM, THCK V/BRI GRN UNBRKN RES RNG, FNT PA GRNSH STN.

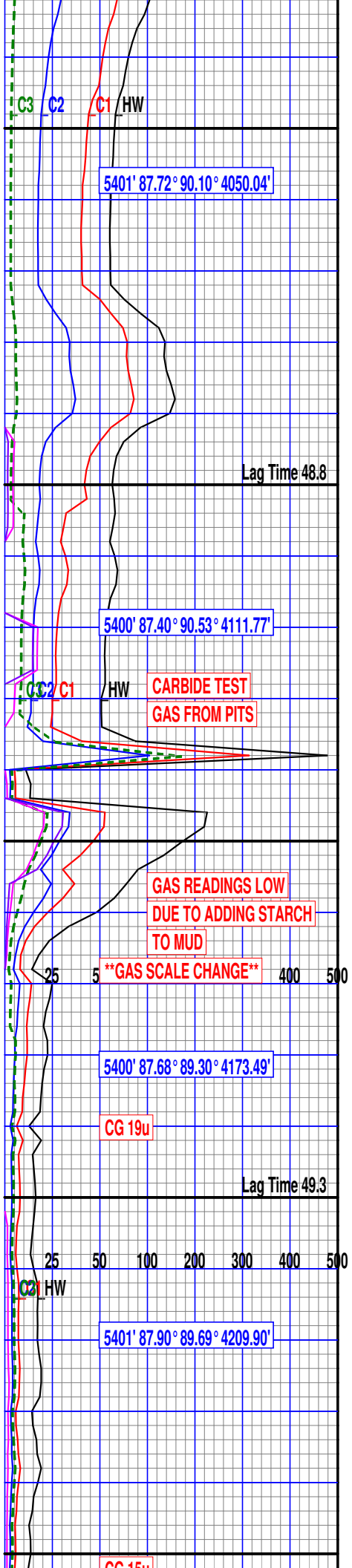
SS: FRSTY OPAQ TRANSL V/LTBN BGE TN, V/F TO F GRN SUBANG TO ANG, PREDOM P CONS, SCAT UNCONS, CALC CMT, PREDOM V CALC, W SRTD, TT-PP-INTERGRN VIS POR, NO STN, NO FLOR, 30% PA YELSH/GRN O FLOR, F STRMNG WET CUT W/BRI MLKY BLU FLM, THCK V/BRI GRN UNBRKN RES RNG, FNT PA GRNSH STN.

DOL: LTBN V/LTBN BGE TN, SUBBLKY TO BLKY, SLI GRTY TXT, FRM TO BRIT TO HD, AREN FRMWRK, AREN, PREDOM SLI-MOD CALC TT VIS POR, NO FLOR, 40% PA YELSH/GRN O FLOR, F STRMNG WET CUT W/BRI MLKY BLU FLM, THCK V/BRI GRN UNBRKN RES RNG, FNT PA GRNSH STN.

SS: FRSTY OPAQ TRANSL V/LTBN BGE TN, V/F TO F GRN SUBANG TO ANG, PREDOM P CONS, SCAT UNCONS, CALC CMT, PREDOM V CALC, W SRTD, TT-PP-INTERGRN VIS POR, NO STN, NO FLOR, 40% PA YELSH/GRN O FLOR, F STRMNG WET CUT W/BRI MLKY BLU FLM, THCK V/BRI GRN UNBRKN RES RNG, FNT PA GRNSH STN.

DOL: LTBN V/LTBN BGE TN, SUBBLKY TO BLKY, SLI GRTY TXT, FRM TO BRIT TO HD, AREN FRMWRK, AREN, PREDOM SLI-MOD CALC TT VIS POR, NO FLOR, 40% PA YELSH/GRN O FLOR, F STRMNG WET CUT W/BRI MLKY BLU FLM, THCK V/BRI GRN UNBRKN RES RNG, FNT PA GRNSH STN.

SS: FRSTY OPAQ TRANSL V/LTBN BGE TN, V/F TO F GRN SUBANG TO ANG, PREDOM LOSLY CONS TO UNCONS, CALC CMT, PREDOM V CALC, W SRTD, TT-PP VIS POR, NO STN, NO FLOR, 30% PA YELSH/GRN O FLOR, F STRMNG WET CUT W/BRI MLKY BLU FLM, THCK V/BRI GRN UNBRKN RES



5401' 87.72° 90.10° 4050.04'

Lag Time 48.8

5400' 87.40° 90.53° 4111.77'

CARBIDE TEST
GAS FROM PITS

GAS READINGS LOW
DUE TO ADDING STARCH
TO MUD

5400' 87.68° 89.30° 4173.49'

CG 19u

Lag Time 49.3

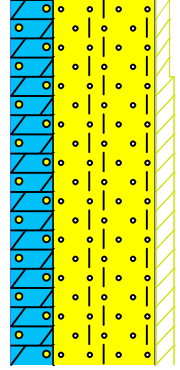
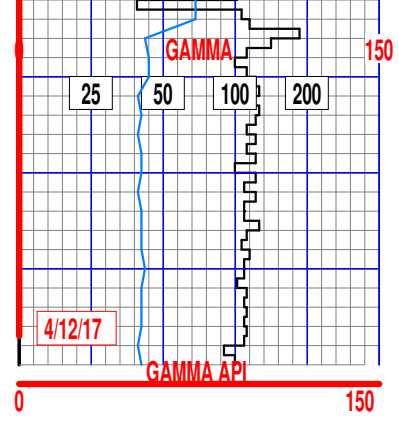
5401' 87.90° 89.69° 4209.90'

CG 15u

WOB 34.3
RPM 84
PP 2565
SPM 81/81

WT IN 9.4
WT OUT 9.4
VIS 28
PH 10

GAMMA



RNG, FNT PA GRNSH STN.

 TD @ 9491' ON 4/11/2017
 @ 10:30PM.

 CIRC. AND COND. HOLE FOR
 TRIP AND CASING.

 AWAITING BOTTOMS UP AND
 WILL COMMENCE RIGGING
 DOWN EQUIP.

 THANK YOU FOR USING
 QUALITY LOGGING INC.

