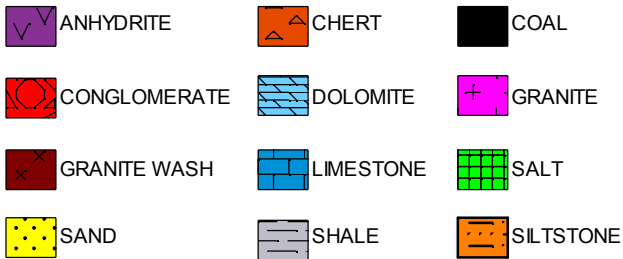


## GEOLOGICAL CONSULTING / SURFACE LOGGING SERVICES

P.O. BOX 61150 4833 SARATOGA #624 P.O. BOX 2993  
MIDLAND CORPUS CHRISTI ROCK SPRINGS  
TEXAS 79711 TEXAS 78413 WYOMING 82902  
OFFICE (432) 563 0084 --- 24 HOURS (800) 578 1006



### POROSITY - % CUT - FLUOR



Company: WEXPRO COMPANY

Well: ACE #13 S/T #1

Field: POWDER WASH 69800

API: 05-081-07408

Location: 1478' FSL 1055' FEL, NE SE, SEC. 28, T-12-N, R-97-W

County: MOFFAT COUNTY

State: COLORADO

Logger: RICHARD LANDRY / CALVIN HUTSON

Interval: 3100'

To: 8699'

Date: 12/30/2007

To: 1/19/2008

Unit: 34

Well#: 4438ST1

Kelly Bushing: 6545

Phone: 432-385-4434

Ground Level: 6532

C-1 METH (PURPLE)

C-4 BUT (BROWN)

C-2 ETH (GREEN)

H2S (ORANGE)

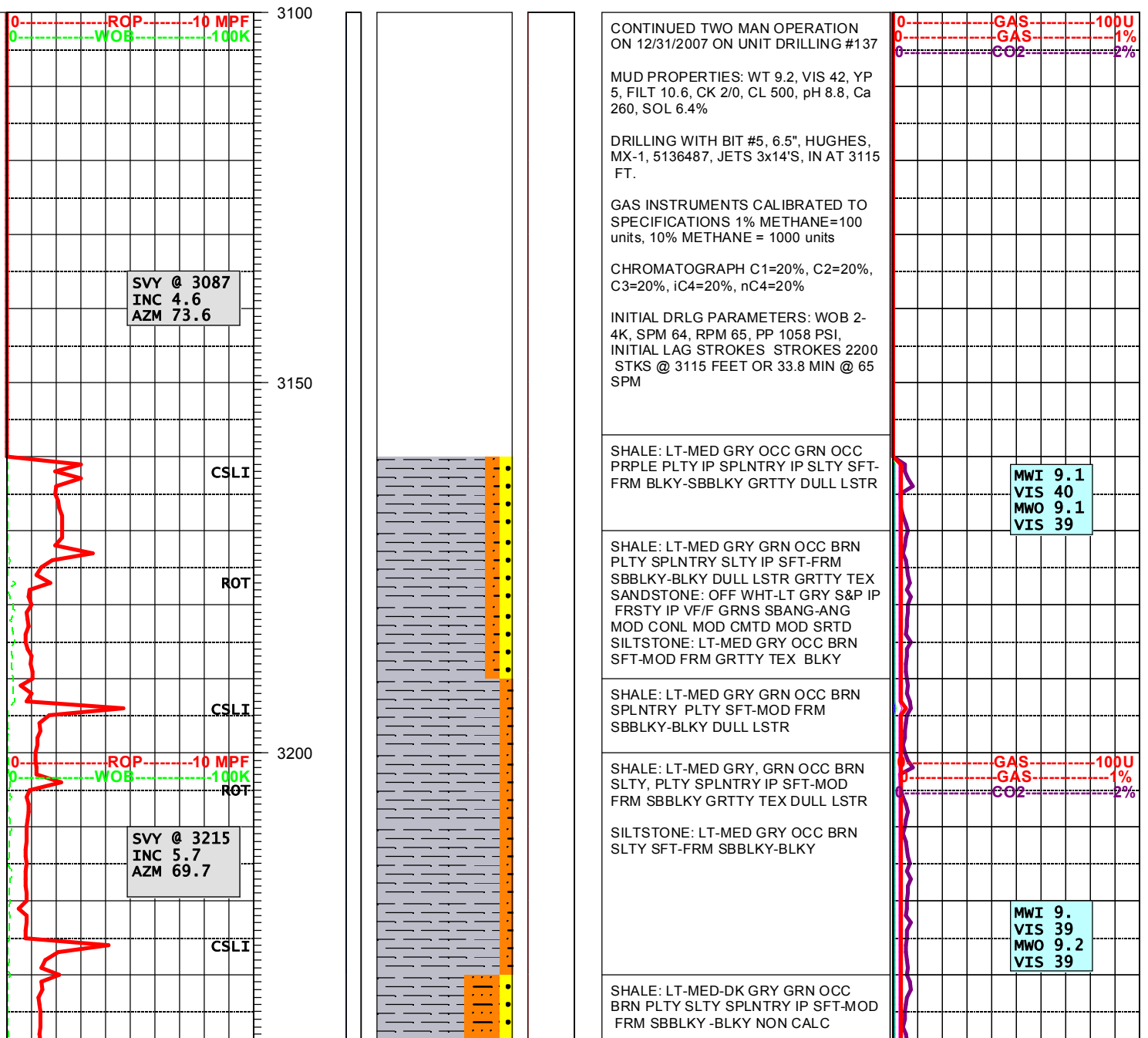
C-3 PROP (DK BLUE)

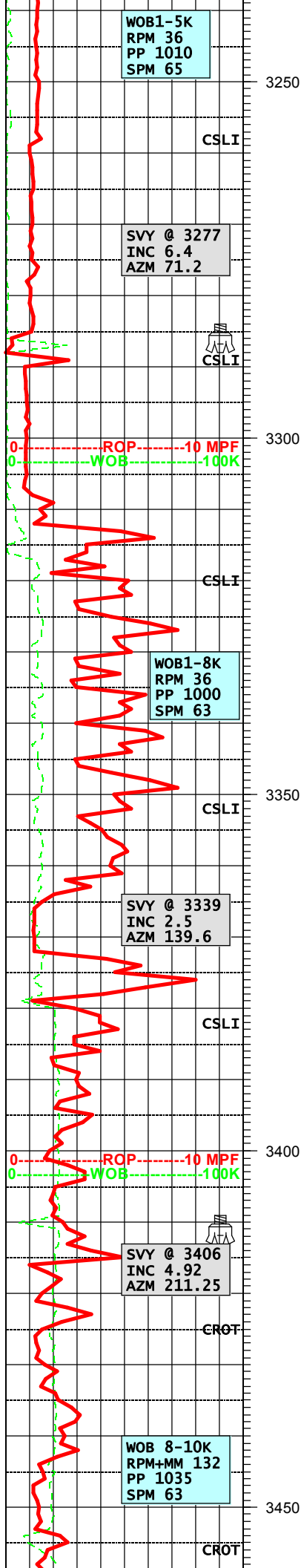
CO2 (DK PURPLE)

TOTAL GAS ( RED )

0-----FLARE-----100

Drill Rate (min) Wob (kLbs) DEPTH CUTTINGS %Cut Fluor LITHOLOGY GAS ANALYSIS (UNIT)





SILTSTONE: LT-MED GRY TN MOD  
FRM BLKY RTHY GRTTY TXT SLI CALC

SHALE: LT-MED-DK GRY DK BRN PLTY  
SBBLKY SMTH WXY TXT DULL LSTR  
GRTTY PLTY IP SPLNTRY NON CALC  
SILTSTONE: MED-DK GRY OCC BRN  
SFT-FRM RTHY SBBLKY-BLKY GRTTY  
TXT DULL LSTR SNDY

NEW BIT #6, 6.5", HUGHES, MX-1,  
SN5136486, JETS 3X14, IN AT 3288',  
OUT AT 3413', AVG 15.6 FT/HR, 8 BIT  
HRS, 125 FT. DRILLED

LT-M-GRY SFT-MOD FRM BLKY SLTY  
SNDY RTHY GRTTY TXT SBBLKY DULL  
LSTR

SHALE: MED-DK GRY BRN TN MOD  
FRM-FRM SLTY GRTTY DULL LSTR  
SBBLKY-BLKY LSE SND GRNS NON  
CALC

SILTSTONE: LT-MED GRY OCC TN  
SFT-MOD FRM SLTY SNDY BLKY  
GRTTY TXT

SILTSTONE: LT-DK GRY OCC BRN  
SFT-MOD FRM RTHY DULL LSTR BLKY  
GRTTY TXT

SHALE: LT-DK GRY OCC BRN OCC  
GRN SFT-MOD FRM SLTY SNDY  
SPLNTRY IP PLTY IP SBBLKY-BLKY  
DULL LSTR WXY IP

SANDSTONE: OFF WHT-LT GRY  
FRSTY IP S&P IP VF/F GRNS SBANG-  
SBRNDD MOD CONL MOD CMTD MOD  
SRTD NON CALC CMT

SHALE: LT-MED GRY SFT-MOD FRM  
SPLNTRY IP PLTY IP SBBLKY RTHY IP  
WXY LSTR SLI CALC

SILTSTONE:LT-MED GRY OCC BRN  
RTHY RND-SBBLKY DULL LSTR

SANDSTONE: WHT-TRNSL FRSY IP  
S&P IP MED GRNS SBANG OCC LSE  
GRNS MOD SRTD MOD CONL MOD  
CMTD SLI CALC CMT

SILTSTONE: MED-DK GRY OCC BRN  
RTHY LSTR RND-SBBLKY GRTTY TEXT

SHALE: LT-MED GRY SFT-MOD FRM  
SPLNTRY IP PLTY IP SBBLKY-BLKY  
DULL LSTR WXY IP

SHALE: LT-MED GRY SFT-MOD FRM  
SBBLKY-RNDD DULL-WXY LSTR PLTY  
IP SMT TEXT NON CALC

NEW BIT #7, 6.5", HUGHES, MX-1,  
TRICONE, SN5136485, JETS 3x14's, IN  
AT 3413', OUT AT 4339', AVG  
31.9FT/HR, 29 BIT HRS, 936 FT.  
DRILLED

SANDSTONE: S & P, TRANSL, OFF-WH,  
LT GY, MOD IND, F-C GR, SBANG-  
SBRDD, MOD SRTD, MOD CONS, SIL  
CMTD, OCC LSE CALC GRNS, P-M  
CMTD, TR PYR

SILTSTONE: MED GY-DK GY, SFT-FRM,  
PLANAR- CONCH FRAC, PLTY-SB  
TABIRREG CTGGS, DULL LSTR, SNDY,  
GRITT TXT, NON-SLI CALC

SHALE: DK GY-GY, OCC LT GY, PLTY,  
FLKY, AREN, RTHY, DULL W/RGH  
GRITT TXT, FRM-BRITT, FISS, SLI

GAS -100U  
GAS -1%  
CO2 -2%

1/2/2008

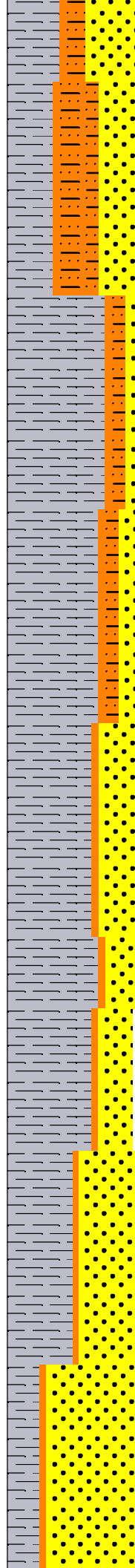
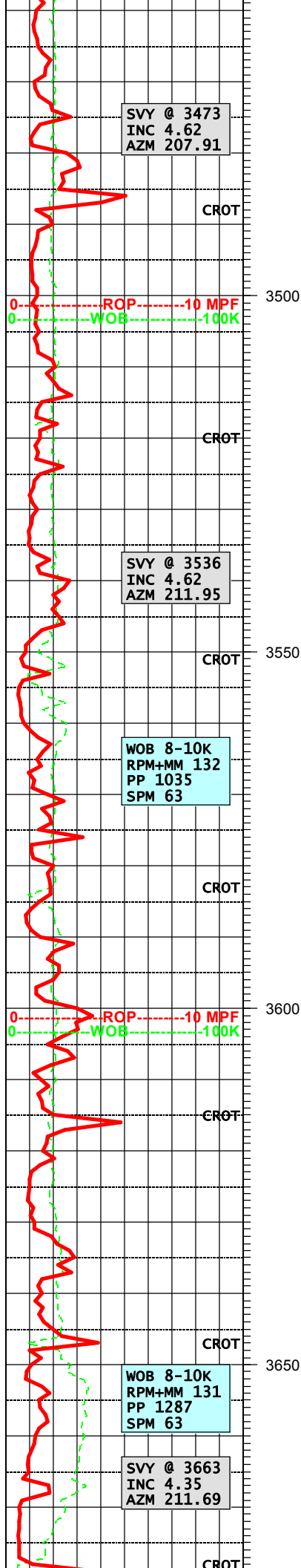
MWI 9.1  
VIS 40  
MWO 9.0  
VIS 41

GAS -100U  
GAS -1%  
CO2 -2%

MWI 9.1  
VIS 36  
MWO 9.1  
VIS 38

1/3/2008

SAMPLE  
DEPTH  
3439 FT  
WT 9.1



CALC

SHALE: DKGY-LTGY, TN, BRN, LAM, FRM-HD, BLKY-SB PLTY, IREG, SLTY, AREN, CARB INCL

SILTSTONE: MED GY-DK GY, SFT-FRM, PLANAR- CONCH FRAC, PLTY-SB TABIRREG CTGGS, DULL LSTR, SNDY, GRITT TXT, NON-SLI CALC

SHALE: LT-DK GRY OCC BRN V/GRTTY TEX SFT-MOD/HRD SBBLKY-BLKY GRADING TO SILTSTONE

SANDSTONE: OFF WHT-LT GRY VF/F GRNS SBANG-SBRNDED MOD-W/SRTD MOD/CMTD MOD CONL CALC CMT  
SILTSTONE: MED GY-DK GY, SFT-FRM, PLANAR- CONCH FRAC, PLTY-SB TABIRREG CTGGS, DULL LSTR, SNDY, GRITT TXT, NON-SLI CALC

SHALE: LT GY-GY, BRN, LT GRN, V SFT-MOD FRM, AMOR-BLKY, SLTY, NON-CALC, GMMY, CL FLLD MTRX I.P.

SILICIFIED SANDSTONE: LT GY-GY, TRSNL, CLR, FRM-HD, MOD IND, VF-M GR, OCC LSE CALC GRNS, SB ANG-SB RDD, MOD-PRLY SRTD, PRLY CMTD, VIT I.P., TR LSE QTZ GRNS, P INTGRN POR, NO VIS STNG, OCC MIN FLOR, NO CUT

SANDSTONE: TRANSL, OFF-WH, LT GY, CLR, MOD IND, VF-F GR, SBANG - RDD, SB SELG-SPHER, MOD-W SRTD, PRED CONS, VIT, FRIA IP., SIL CMT, MOD CMTD, SLI CALC, NSFOC

SHALE DKGY-LTGY, TN, BRN, LAM, FRM-HD, BLKY-SB PLTY, IREG, SLTY, AREN, NON FISS, OCC CARB, SLI CALC, TR CALC

SHALE: LT GY-GY, BLK, PLTY-SBBLKY, RTHY-SHNY LSTR, SMTH TXT, NON CALC, CARB, FISS

SANDSTONE: FROS, WH-TRNSP IP, MED-FRM, SBANG- SB RNDD, V ANG-SB-RNDD IP, PRLY SRT, VF-MED GR, LSLY CONSOL, FRI IP TO UNCONSOL, NO VIS SHOW  
SHALE: LTGY-GY, LT BRN, MOD SFT-MED, SBBLKY-BLKY, SBWXY, CL IP, NONCALC

SANDSTONE: TRANSL, OFF-WH, LT GY, CLR, MOD IND, VF-F GR, SBANG - RDD, SB SELG-SPHER, MOD-W SRTD, PRED CONS, VIT, FRIA IP., SIL CMT, MOD CMTD, SLI CALC, NSFOC

SHALE DKGY-LTGY, TN, BRN, LAM, FRM-HD, BLKY-SB PLTY, IREG, SLTY, AREN, NON FISS, OCC CARB, SLI CALC, TR CALC

SHALE: LTGY-GY, LT BRN, MOD SFT-MED, SBBLKY-BLKY, SBWXY, CL IP, NONCALC

SANDSTONE:TRANSL, OFF-WH, LT GY, CLR, MOD IND, VF-F GR, SBANG - RDD, SB SELG-SPHER, MOD-W SRTD, PRED CONS, VIT, FRIA IP., SIL CMT, MOD CMTD, SLI CALC, NSFOC

WT 9.1  
VIS 34  
YP 4  
CK 1/  
SOL 5.7%  
pH 9.6  
CHL 500  
Ca 260

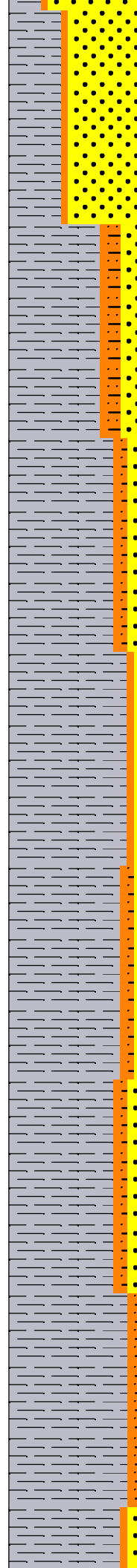
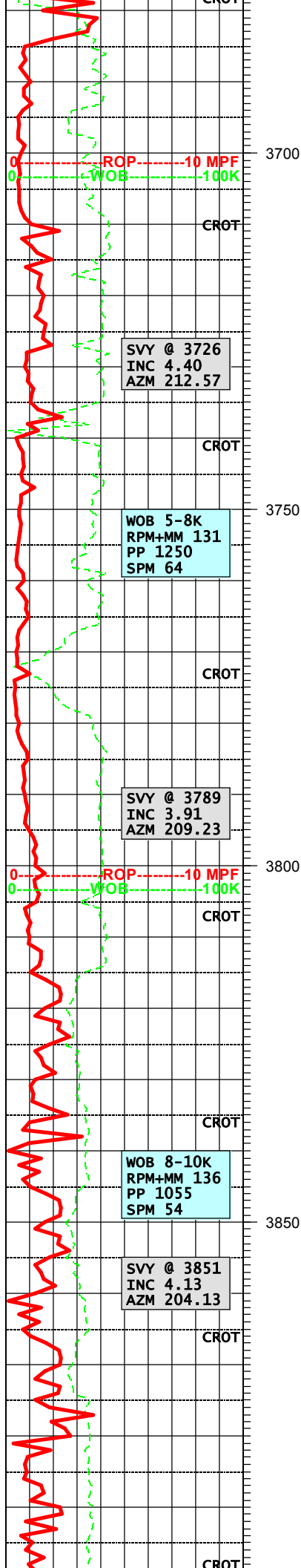
GAS -100U  
GAS -1%  
CO2 -2%

MWI 9.1  
VIS 36  
MWO 9.1  
VIS 38

PUMP  
SWEEP

GAS -100U  
GAS -1%  
CO2 -2%

MWI 9.1  
VIS 36  
MWO 9.1  
VIS 38



SHALE: LT-DK GRY OCC GRN LT BRN  
MOD SFT-MED GRTTY IN TEX SBBLKY-  
BLKY NON CALC

SILTSTONE: LT BRN-BRN SFT-MOD  
FRM SBBLKY GRTTY

SHALE: LT-DK GRY OCC GRN  
W/PURPLE SFT-FRM SB PLTY SBBLKY  
GRTTY TEX

SANDSTONE: OFF WHT-LT GRY  
FRSTY IP S&P IP MED GRNS SBRNDD-  
SBANG MOD SRTD MOD CMTD MOD  
CONL NON CALC CMT

SHALE: LT-DK GRY OCC GRN PLTY IP  
GRTTY TEX SBBLKY

SHALE: LT-DK GRY OCC GRN LT BRN  
MOD SFT-MED GRTTY IN TEX SBBLKY-  
BLKY NON CALC

SILTSTONE: LT BRN-BRN SFT-MOD  
FRM SBBLKY GRTTY

SHALE: LT-DKK GRY GRN OCC PRPLE  
SFT-MOD FRM SB PLTY-PLTY  
SPLNTRY IP SBBLKY-BLKY IP NON  
CALC

SANDSTONE: OFF WHT -LT GRY  
FRSTY IP F-MED GRNS SBANG-  
SBRNDD MOD SRTD MOD CMTD MOD  
CONL NON CALC CMT

SHALE: MED-DK GRY OCC BRN SFT-  
HRD SBBLKY-BLKY V/GRTTY TEX  
GRADING TO SILTSTONE

SILTSTONE: MED GRY-DK GRY OCC  
BRN MOD-FRM SBBLKY-BLKY  
V/GRTTY TEX

SANDSTONE: OFF WHT-LT GRY VF/F  
GRNS SBANG-ANG M/W SRTD MOD  
CMTD MOD CONL CALC CMT

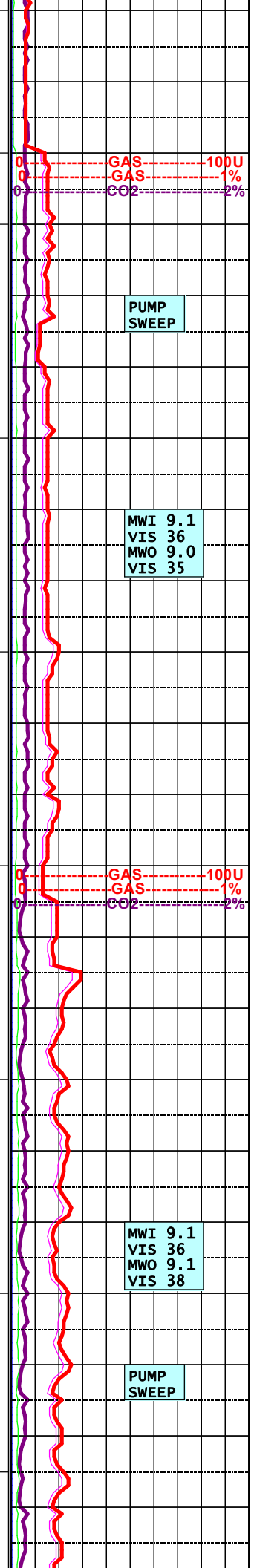
SILTSTONE: MED GY-DK GY, SFT-FRM,  
PLANAR- CONCH FRAC, PLTY-SB  
TABIRREG CTGGS, DULL LSTR, SNDY,  
GRITT TXT, NON-SLI CALC

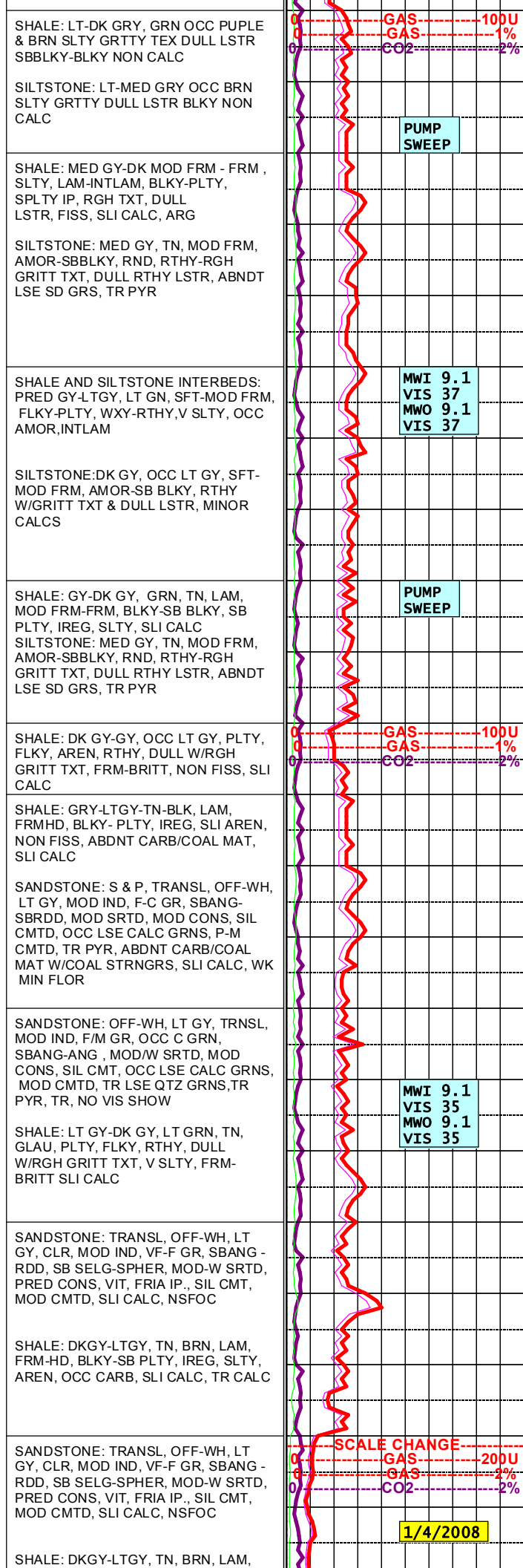
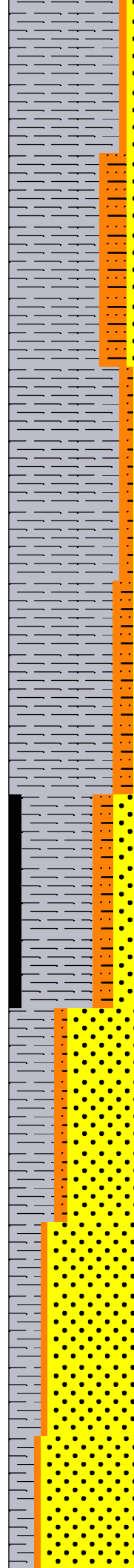
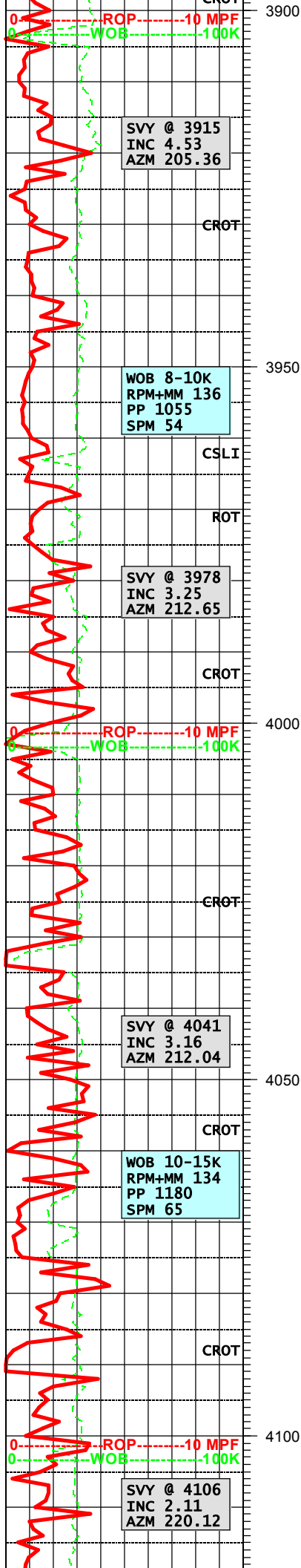
SHALE: LT-DK GRY OCC GRN PLTY IP  
GRTTY TEX SBBLKY

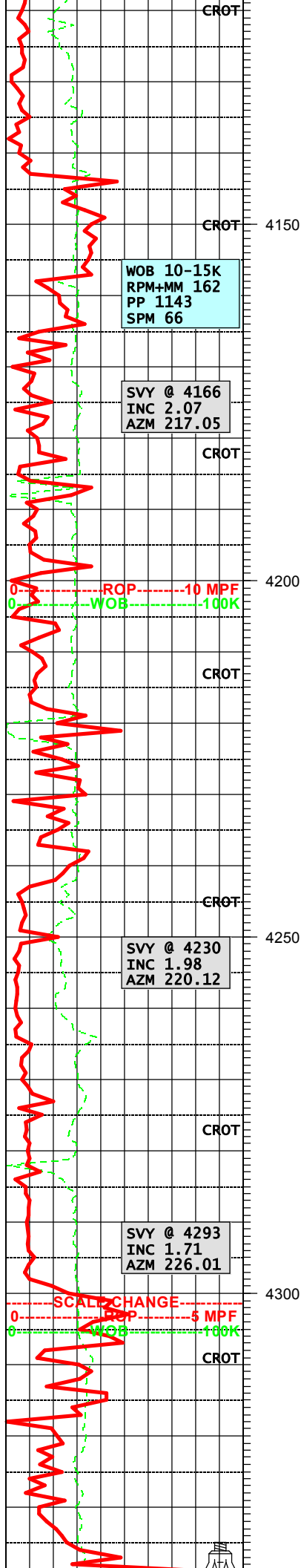
SHALE: GRY-LTGY-TN-BLK, THIN CARB  
LAM IP, FRMHD, BLKY- PLTY, IREG,  
SLI AREN, NON FISS

SILTSTONE: MED GY-DK GY, SFT-FRM,  
PLANAR- CONCH FRAC, PLTY-SB  
TABIRREG CTGGS, DULL LSTR, SNDY,  
GRITT TXT, NON-SLI CALC

SHALE: LT-DKK GRY GRN OCC PRPLE  
SFT-MOD FRM SB PLTY-PLTY  
SPLNTRY IP SBBLKY-BLKY IP NON  
CALC







FRM-HD, BLKY-SB PLTY, IREG, SLTY,  
AREN, OCC CARB, SLI CALC, TR CALC

SHOW #1

140u

SANDSTONE: TRANSL, OFF-WH, LT  
GY, CLR, MOD IND, VF-F GR, SBANG -  
SB RDD, SB ELG-SB SPHER, MOD-W  
SRTD, PRED CONS, VIT, FRIA IP., SIL  
CMT, MOD CMTD, SLI CALC, NSFOC

SHALE: DKGY-LTGY, TN, BRN, LAM,  
FRM-HD, BLKY-SB PLTY, IREG, SLTY,  
AREN, OCC CARB, SLI CALC, TR CALC

MWI 9.1  
VIS 37  
MWO 9.1  
VIS 37

SHALE: DKGY-LTGY, TN, BRN, LAM,  
FRM-HD, BLKY-SB PLTY, IREG, SLTY,  
AREN, OCC CARB, SLI CALC, TR CALC

SANDSTONE: OFF WHT, GY, TRNSL,  
OCC CLR, MHD-HD, MOD CONS, VF-F  
GR, SB ANG-ANG, MOD SRTD, SILS  
COMP, MOD CMTD, CALS/SILS CMTD,  
TR MIN FLOR, NO CUT

SHALE: DKGY-LTGY, TN, BRN, LAM,  
FRM-HD, BLKY-SB PLTY, IREG, NON  
FISS, SLI AREN, CARB INCL

SHALE: DKGY-LTGY, TN, BRN, LAM,  
FRM-HD, BLKY-SB PLTY, IREG, SLTY,  
AREN, OCC CARB, SLI CALC, TR CALC  
SANDSTONE: OFF WHT, GY, TRNSL,  
OCC CLR, MHD-HD, MOD CONS, VF-F  
GR, SB ANG-ANG, MOD SRTD, SILS  
COMP, MOD CMTD, CALS/SILS CMTD,  
TR MIN FLOR, NO CUT

GAS -200U  
GAS -2%  
CO2 -2%

SANDSTONE: OFF-WH, LT GY, CLR,  
MOD IND, VF-F GR, SBANG-ANG,  
RNDD IP, MOD-W SRTD, MOD CONS,  
SIL CMT, TR LSE CALC GRNS, P-M  
CMTD, TR LSE QTZ GRNS, TR PYR, TR  
CARB/COAL MAT, SLI CALC, NSFOC

SHALE: DK GY-GY, OCC LT GY, PLTY,  
FLKY, AREN, RTHY, DULL W/RGH  
GRITT TXT, FRM-BRITT, FISS, SLI  
CALC, ABDNT COAL INCL

SAMPLE  
DEPTH  
4210 FT  
WT 9.1  
VIS 34  
YP 4  
CK 1/2  
SOL 5.7%  
pH 9.5  
CHL 500  
Ca 130

SANDSTONE: OFF-WH, LT GY, CLR,  
MOD IND, VF-F GR, SBANG-ANG,  
RNDD IP, MOD-W SRTD, MOD CONS,  
SIL CMT, TR LSE CALC GRNS, P-M  
CMTD, TR LSE QTZ GRNS, TR PYR, TR  
CARB/COAL MAT, SLI CALC, NSFOC

SHALE: DK GY-GY, OCC LT GY, PLTY,  
FLKY, AREN, RTHY, DULL W/RGH  
GRITT TXT, FRM-BRITT, FISS, SLI  
CALC, ABDNT COAL INCL

MWI 9.1  
VIS 35  
MWO 9.1  
VIS 35

SHALE: DKGY-LTGY, TN, BRN, LAM,  
SFT-MFRM, BLKY-SB PLTY, IREG,  
SLTY, AREN, OCC CARB, SLI CALC,  
SANDSTONE: OFF WHT, GY, TRNSL,  
OCC CLR, MHD-HD, MOD CONS, VF-F  
GR, SB ANG-ANG, MOD SRTD, SILS  
COMP, MOD CMTD, CALS/SILS CMTD,  
NSFOC

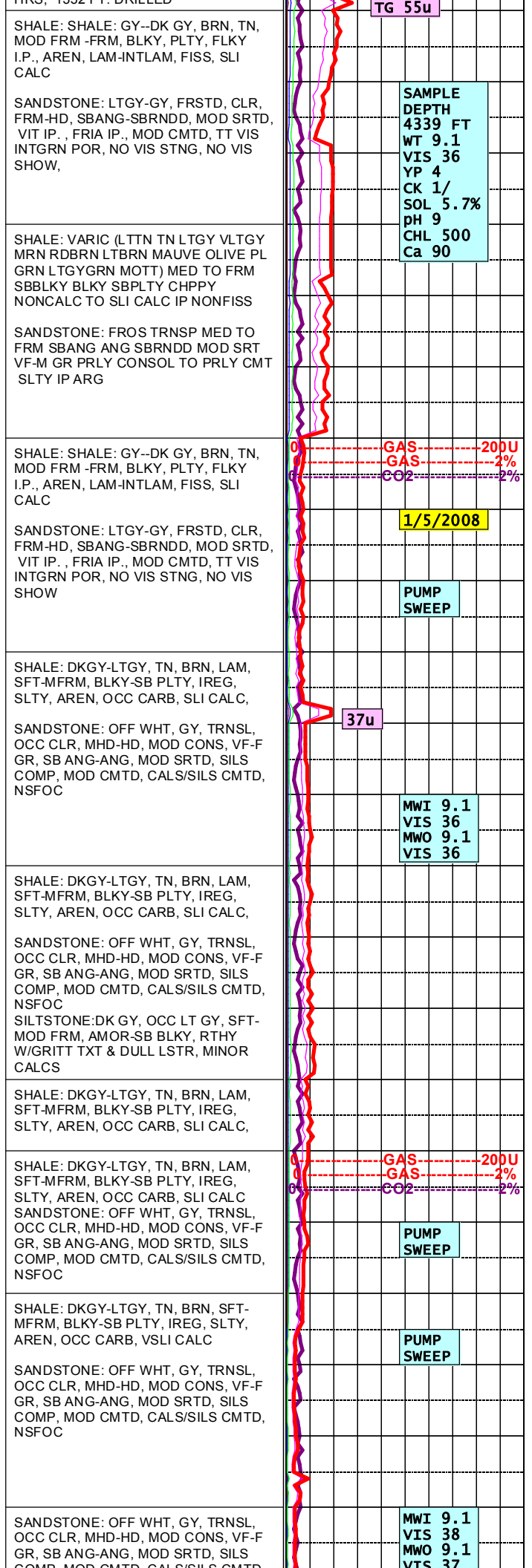
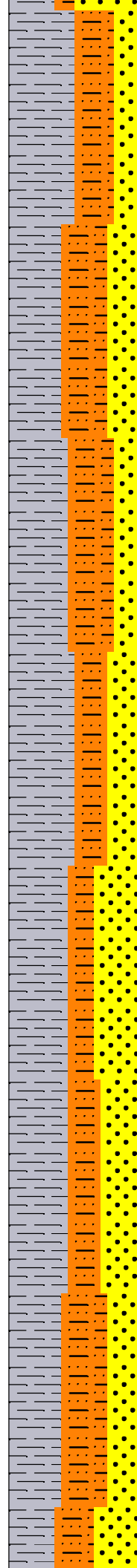
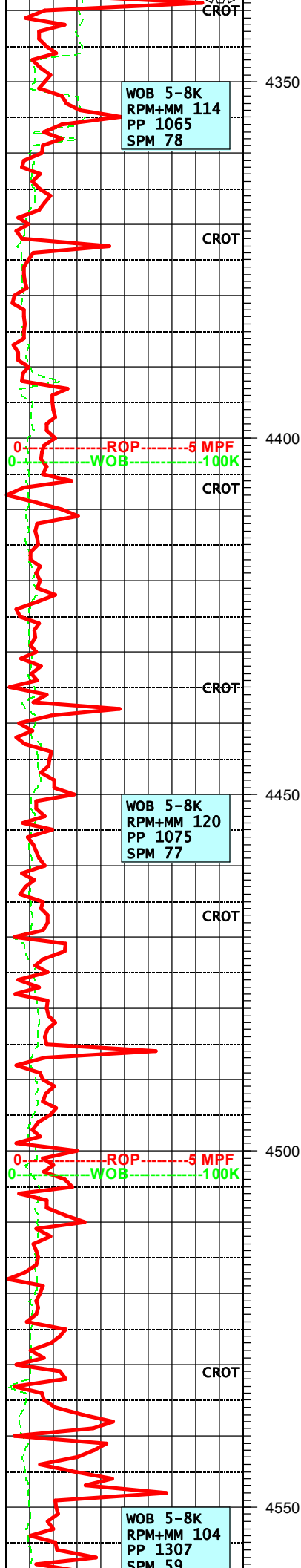
SHALE: DKGY-LTGY, TN, BRN, LAM,  
SFT-MFRM, BLKY-SB PLTY, IREG,  
SLTY, AREN, OCC CARB, SLI CALC

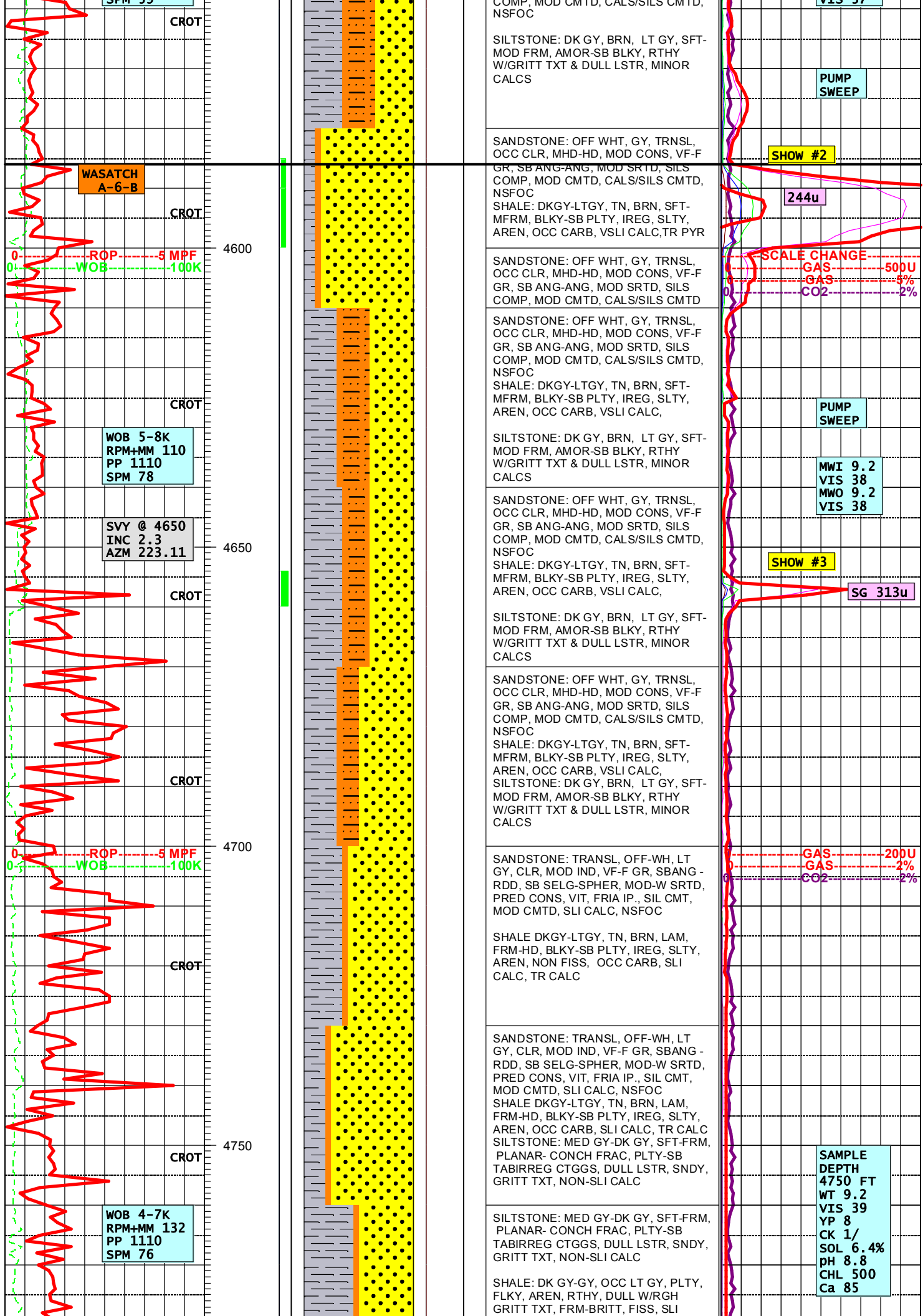
GAS -200U  
GAS -2%  
CO2 -2%

SANDSTONE: LTGY-GY, FRSTD, CLR,  
FRM-HD, SBANG-SBRNDD, MOD SRTD,  
VIT IP., FRIA IP., MOD CMTD, TT VIS  
INTGRN POR, NO VIS STNG, NO VIS  
SHOW  
SHALE: GY--DK GY, BRN, TN, MOD  
FRM -FRM, BLKY, PLTY, FLKY I.P.,  
AREN, LAM-INTLAM, FISS, SLI CALC

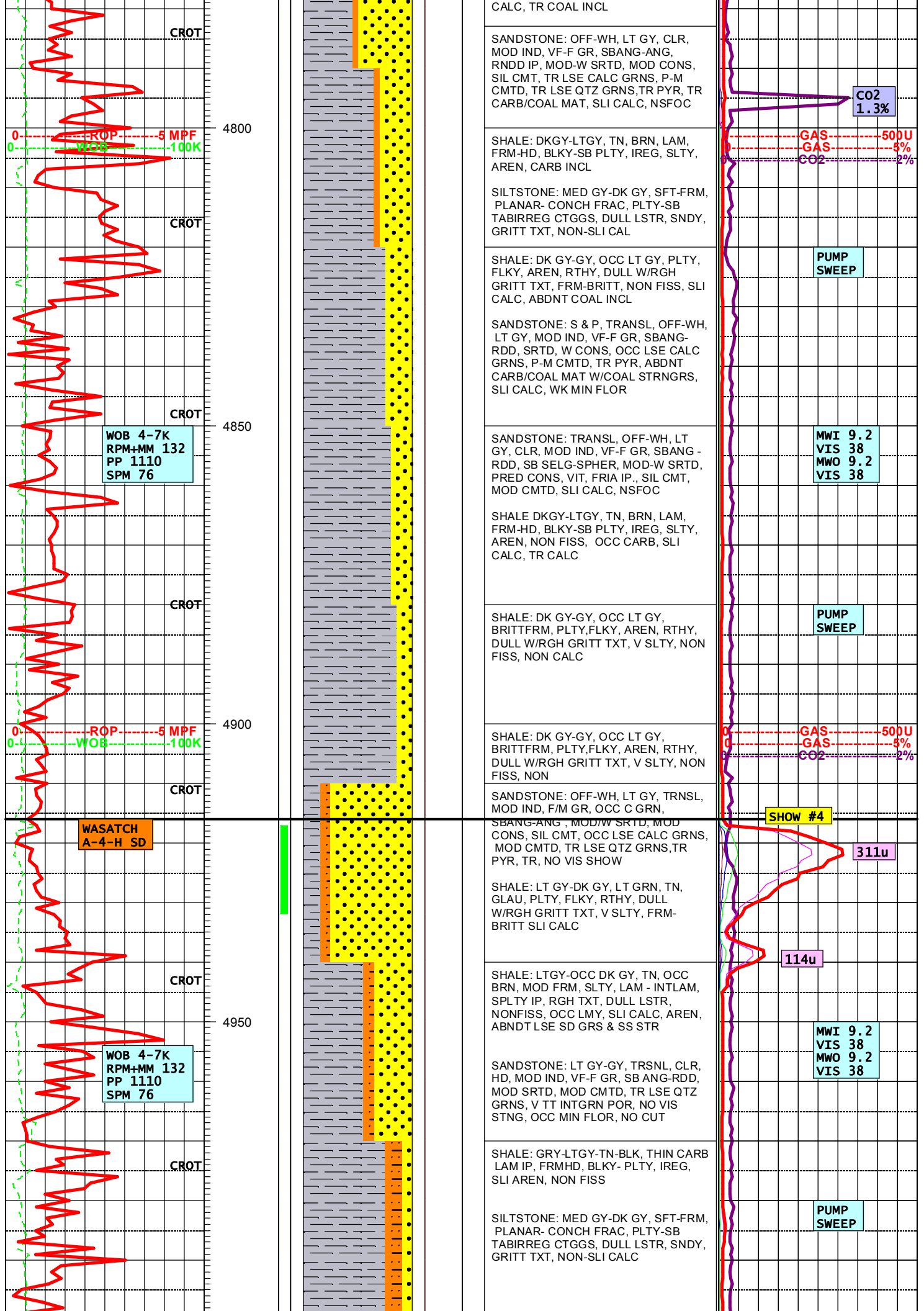
NEW BIT #8, 6.5", HTC, 504Z+, PDC,  
SN7204822, JETS 5x15's, IN AT 4339',  
OUT AT 5691', AVG 33.8FT/HR, 40 BIT  
HRS, 1352 FT DRILLED

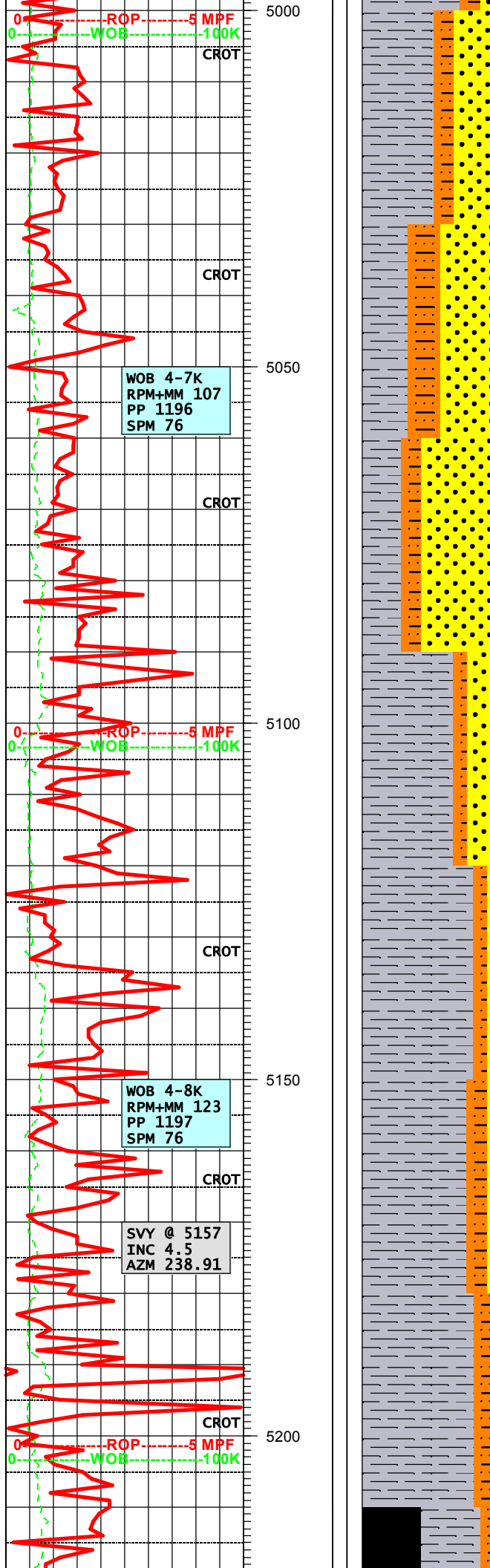












SANDSTONE: OFF WHT-LT GRY  
FRSTY IP F/GRNS SBANG-ANG-ANG  
MOD/W-SRTD MOD CMTD MOD CONL  
SLI CALC CMT  
SHALE: LT-DK GRY OCC BLK OCC  
GRN SFT-MOD/FRM SBBLKY-BLKY  
SMTH-SLTLY GRTTY TEX NON CALC  
SILTSTONE: LT-MED GRY OCC BRN  
GRTTY RTHY SBBLKY-BLKY

SHALE: DK GY-GY, OCC LT GY, TN,  
MOD FRM-FRM, PLTY,FLKY, AREN,  
RTHY, DULL W/RGH GRITT TXT, V  
SLTY, NON FISS, NON CALC

SILTSTONE: MED GY-DK GY, SFT-FRM,  
PLANAR- CONCH FRAC, PLTY-SB TAB,  
IRREG CTGGS, DULL LSTR, SNDY,  
GRITT TXT, NON-SLI CALC

SHALE: DK GY-GY, OCC LT GY, TN,  
MOD FRM-FRM, PLTY,FLKY, AREN,  
RTHY, DULL W/RGH GRITT TXT, V  
SLTY, NON FISS, NON CALC

SANDSTONE: WHT, CRM, TRSNL, CLR,  
FRM-HD, MOD IND, VF-F GR, OCC LSE  
CALC GRNS, SBANG-SB RDD, MOD  
SRTD, MOD CMTD, FRIA, VIT I.P., TR  
LSE QTZ GRNS, TT INTGRN POR, NO  
VIS STNG, OCC MIN FLOR, NO CUT

SHALE: DKGY-LTGY, TN, BRN, LAM,  
FRM-HD, BLKY-SB PLTY, IREG, NON  
FISS, SLI AREN

SHALE: DK GY-GY, LT GY, TN, MOD  
FRM, PLTY,FLKY, AREN, RTHY, DULL  
W/RGH GRITT, V SLTY, NON FISS, NON  
CALC  
SILTSTONE: MED GY-DK GY, SFT-FRM,  
PLANAR- CONCH FRAC, PLTY, IRREG  
CTGGS, DULL LSTR, SNDY, GRITT,  
NON-SLI CALC, TRACE SANDSTONE

SHALE: DK GY-GY, LT GY, TN, BN,  
MOD FRM, PLTY,FLKY, AREN, RTHY,  
DULL W/RGH GRITT, V SLTY,NON  
CALC  
SILTSTONE: MED GY-DK GY, SFT-FRM,  
PLTY, IRREG CTGGS, DULL LSTR,  
SNDY, GRITT, NON-SLI CALC  
SANDSTONE: OFF WHT, CRM, TRSNL,  
CLR, FRM-HD, VF-F GR, OCC LSE  
CALC GRNS, SBANG-SB RDD, MOD  
SRTD, MOD CMTD, TT INTGRN POR,  
NO VIS STNG, NO FLOR, NO CUT

SHALE: DK GY-GY, LT GY, TN, BN,  
MOD FRM, PLTY,FLKY, AREN, RTHY,  
STRIA IP, V SLTY,NON CALC  
SILTSTONE: MED GY-DK GY, SFT-FRM,  
PLTY, IRREG CTGGS, DULL LSTR,  
SNDY, GRITT, NON-SLI CALC  
SANDSTONE: OFF WHT, GY, CRM,  
TRSNL, CLR, FRM-HD, VF-F GR, LSE  
CALC GRNS, SBANG-SB RDD, MOD  
SRTD, MOD CMTD, TT INTGRN POR,  
NO VIS STNG, NO FLOR, NO CUT

SHALE: DK GY-GY, LT GY, TN, BN,  
MOD FRM, PLTY,FLKY, AREN, RTHY,  
STRIA IP, V SLTY,NON CALC  
SILTSTONE: MED GY-DK GY, SFT-FRM,  
PLTY, IRREG CTGGS, DULL LSTR,  
GRITT, NON-SLI CALC  
TRACE SANDSTONE

SHALE: DK GY-GY, LT GY, TN, BN,  
MOD FRM, PLTY,FLKY, AREN, RTHY,  
STRIA IP, V SLTY,NON CALC

SHALE: DK GY-GY, LT GY, TN, BN,  
MOD FRM, PLTY, FLKY, AREN, RTHY,  
STRIA IP, V SLTY, NON CALC

GAS-----500U  
GAS-----8%  
CO2-----2%

CARBIDE LAG  
@ 5006' SUGGEST  
A 50% W/O

MWI 9.2  
VIS 38  
MWO 9.2  
VIS 39

PUMP  
SWEEP

( CALC LAG =  
2468 STKS )  
CARBIDE LAG  
= 3725 STKS =  
49 MIN @ 76 SPM  
SUGGESTING A  
50% W/O

1/6/2008

GAS-----500U  
GAS-----8%  
CO2-----2%

PUMP  
SWEEP

PUMP  
SWEEP

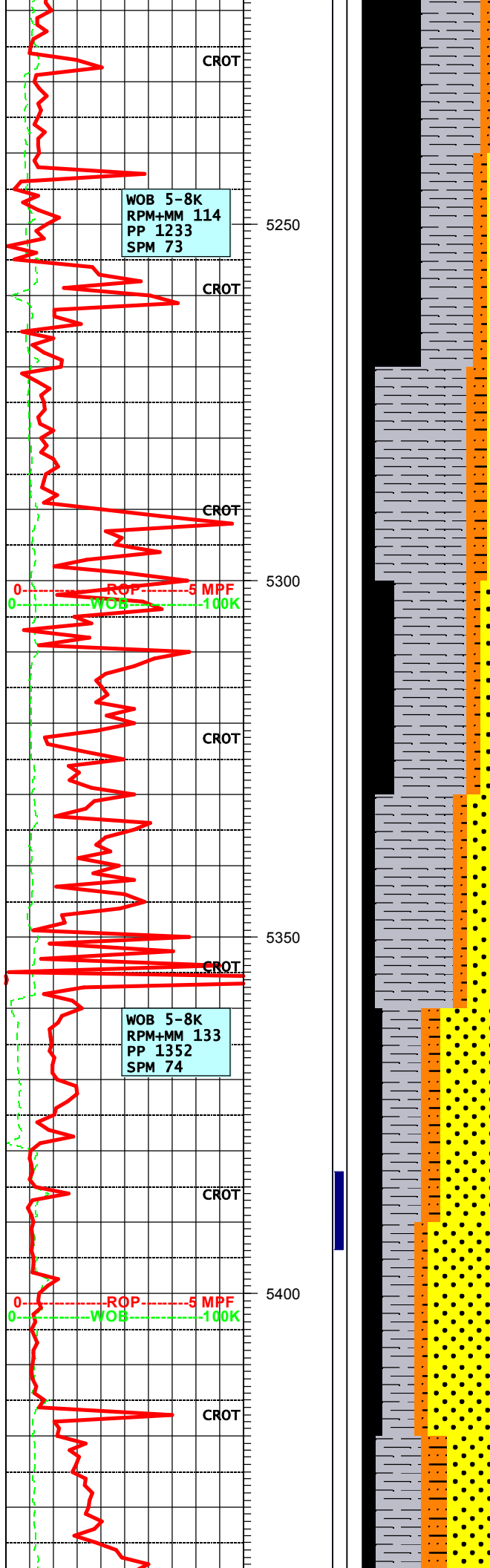
MWI 9.2+  
VIS 39  
MWO 9.3  
VIS 40

PUMP  
SWEEP

PUMP  
SWEEP

GAS-----500U  
GAS-----8%  
CO2-----2%

PUMP  
SWEEP



COAL: DKBK, DLL BLK, BLKY, FLKY

SILTSTONE: GY, GYBN, RDBN, MOD SFT-FRM, GRITT IP, TR SANDSTONE

SHALE: DK GY-GY, TN, BN, MOD FRM, PLTY, FLKY, AREN, RTHY, STRIA IP, V SLTY, CARB, NON CALC

SILTSTONE: GY, GYBN, RDBN, MOD SFT-FRM, GRITT IP, CARB

SANDSTONE: OFF WHT, GY, GYBN, VF-F GR, ANG-SBANG, MOD SRT, CONSOL, SLI CALC,

SHALE: DK GY-GY, TN, DKBK, MOD FRM, PLTY, FLKY, AREN, RTHY, STRIA IP, V SLTY, CARB, NON CALC

COAL: DKBK, DLL BLK, BLKY, FLKY

SANDSTONE: OFF WHT, GY, GYBN, CLR, VF-F GR, ANG-SBANG, MOD SRT, MOD CONSOL, LSE CLR QTZ GRNS, SLI CALC, TT INTRGR POR F IP

SHALE: GRY-LTGY-TN-BLK, LAM, FRMHD, BLKY- PLTY, IREG, SLI AREN, ABDNT CARB/COAL MAT, SLI CALC

SANDSTONE: S & P, TRANSL, OFF-WH, LT GY, VF-F GR, SBANG-SBRDD, MOD SRTD, MOD CONS, SIL CMTD, OCC LSE CALC GRNS, W CMTD, TR PYR, ABDNT CARB/COAL MAT W/THIN COAL STRNGRS, SLI CALC, WK MIN FLOR

COAL: BLK, MICRO, VIT, GLSSY LSTR, V BRITT, NO EV ORG MAT, OCC MIN FLOR, FAINT PETRO ODOR

SHALE: DK GY-GY, OCC LT GY, PLTY, FLKY, AREN, RTHY, DULL W/RGH GRITT TXT, FRM-BRITT, FISS, SLI CALC, ABDNT COAL INCL

SANDSTONE: OFF-WH, LT GY, CLR, MOD IND, VF-F GR, SBANG-ANG, RNDD IP, MOD-W SRTD, MOD CONS, SIL CMT, TR LSE CALC GRNS, P-M CMTD, TR LSE QTZ GRNS, TR PYR, TR CARB/COAL MAT, SLI CALC, NSFOC

SANDSTONE: S & P, TRANSL, OFF-WH, LT GY, MOD IND, F-C GR, SBANG-SBRDD, MOD SRTD, MOD CONS, SIL CMTD, OCC LSE CALC GRNS, P-M CMTD, TR PYR, ABDNT CARB/COAL MAT W/COAL STRNGRS, SLI CALC, WK MIN FLOR

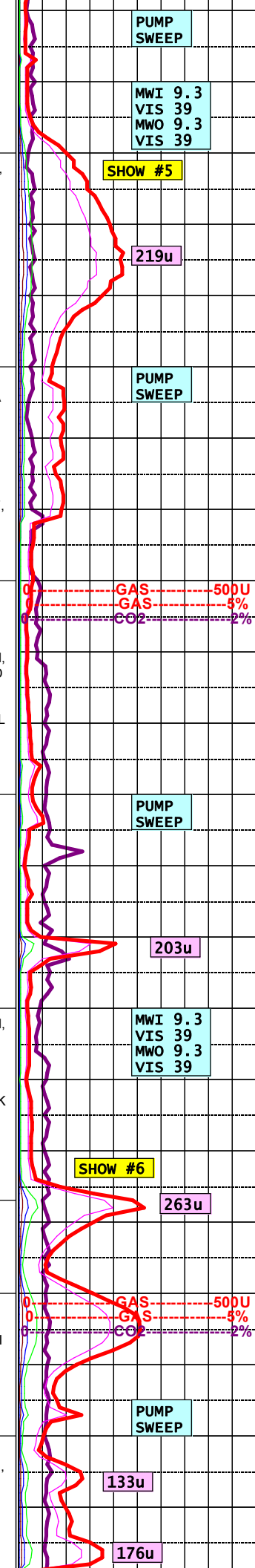
SHALE: GRY-LTGY-TN-BLK, LAM, FRMHD, BLKY- PLTY, IREG, SLI AREN, NON FISS, ABDNT CARB/COAL MAT, SLI CALC

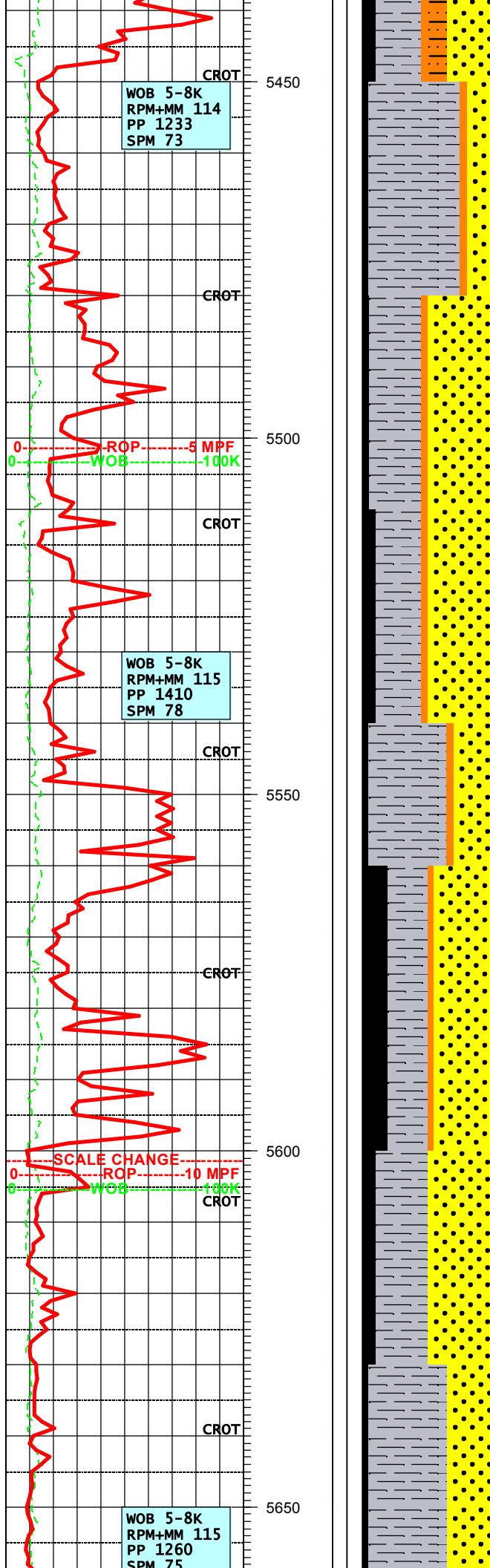
SHALE: DK GY-GY, OCC LT GY, PLTY, FLKY, AREN, RTHY, DULL W/RGH GRITT TXT, FRM-BRITT, NON FISS, SLI CALC, ABDNT COAL INCL

COAL: BLK, MICRO, VIT, GLSSY LSTR, V BRITT, NO EV ORG MAT, OCC MIN FLOR, FAINT PETRO ODOR

CARB SHALE: DK GY-GY OCC GRDG TO COAL, FRM-HD, SBBLKY, SPLTY IP, DULL RGH TXT, SLI INTLAM, V CARB, TR LSE QTZ CALC GRS, TR PYR

COAL: BLK, MICRO, VIT, GLSSY LSTR, V BRITT, NO EV ORG MAT, OCC MIN FLOR, FAINT PETRO ODOR





SHALE: DK GY-GY, OCC LT GY, PLTY,  
FLKY, AREN, RTHY, DULL W/RGH  
GRITT TXT, FRM-BRITT, FISS, SLI  
CALC, ABDNT COAL INCL

SANDSTONE: OFF-WH, LT GY, CLR,  
MOD IND, VF-F GR, SBANG-ANG,  
RNDD IP, MOD-W SRTD, MOD CONS,  
SIL CMT, TR LSE CALC GRNS, P-M  
CMTD, TR LSE QTZ GRNS, TR PYR, TR  
CARB/COAL MAT, SLI CALC, NSFOC  
SHALE: DK GY-GY, OCC LT GY, PLTY,  
FLKY, AREN, RTHY, DULL W/RGH  
GRITT TXT, FRM-BRITT, FISS, SLI  
CALC, ABDNT COAL INCL

SHALE: DK GY-GY, OCC LT GY, PLTY,  
FLKY, AREN, RTHY, DULL W/RGH  
GRITT TXT, FRM-BRITT, NON FISS, SLI  
CALC, ABDNT COAL INCL  
COAL: BLK, MICRO, VIT, GLSSY LSTR,  
V BRITT, NO EV ORG MAT, OCC MIN  
FLOR, FAINT PETRO ODOR

SHALE: DKGY-LTGY, TN, BRN, LAM,  
FRM-HD, BLKY-SB PLTY, IREG, SLTY,  
AREN, OCC CARB, SLI CALC, TR CALC

SHALE: GRY-LTGY-TN-BLK, LAM,  
FRMHD, BLKY- PLTY, IREG, SLI AREN,  
NON FISS, ABDNT CARB/COAL MAT,  
SLI CALC

SANDSTONE: S & P, TRANSL, OFF-WH,  
LT GY, MOD IND, F-C GR, SBANG-  
SBRDD, MOD SRTD, MOD CONS, SIL  
CMTD, OCC LSE CALC GRNS, P-M  
CMTD, TR PYR, ABDNT CARB/COAL  
MAT W/COAL STRNGRS, SLI CALC, WK  
MIN FLOR

SANDSTONE: OFF-WH, TRNSL, CLR,  
MOD IND, VF-F GR, SBANG-SB RNDD,  
MOD-W SRTD, MOD CONS, SIL CMT,  
TR LSE CALC GRNS, P-M CMTD, TT-FR  
VIS INTRN POR, TR LSE QTZ  
GRNS, TR PYR, TR CARB/COAL MAT,  
SLI CALC, NSFOC

COAL: BLK, MICRO, VIT, GLSSY LSTR,  
V BRITT, NO EV ORG MAT, OCC MIN  
FLOR, FAINT PETRO ODOR, W/10-15%  
FLOATERS

SILTSTONE: MED GY-DK GY, SFT-FRM,  
PLANAR- CONCH FRAC, PLTY-SB  
TABIRREG CTGGS, DULL LSTR, SNDY,  
GRITT TXT, NON-SLI CALC

COAL: BLK, MICRO, VIT, GLSSY LSTR,  
V BRITT, NO EV ORG MAT, OCC MIN  
FLOR, FAINT PETRO ODOR, W/5%  
FLOATERS

SHALE: M-DK GY, TN, MOD FRM, LAM -  
INTLAM, RGH TXT, DULL LSTR, NON-  
FISS, V CALC, ARG, ABNDT LSE  
SD GRS & COAL STR, TR PYR  
COAL: BLK, FRM-HD, BRITT, BLKY,  
OCC GLSSY, SOOTY, SLI PETRO  
ODOR

SANDSTONE: OFF WHT, GY, TRNSL,  
OCC CLR, MHD-HD, MOD CONS, VF-F  
GR, SB ANG-ANG, MOD SRTD, SILS  
COMP, MOD CMTD, CALS/SILS CMTD,  
TR MIN FLOR, NO CUT

COAL: BLK, MICRO, VIT, GLSSY LSTR,  
V BRITT, FAINT PETRO ODOR

SANDSTONE: TRANSL, OFF-WH, LT  
GY, MOD IND, VVF-FGR, SBANG-ANG,  
V MOD SRTD, W CONS, SIL CMT, OCC  
LSE CALC GRNS, P-M CMTD, TR LSE  
QTZ GRNS, TR PYR, ABDNT  
CARB/COAL MAT W/ COAL STNGRS,  
SLI CALC, NSFOC

MWI 9.3  
VIS 39  
MWO 9.3  
VIS 39

PUMP  
SWEEP

GAS - 500U  
GAS - 5%  
CO2 - 2%

MWI 9.3  
VIS 39  
MWO 9.3  
VIS 39

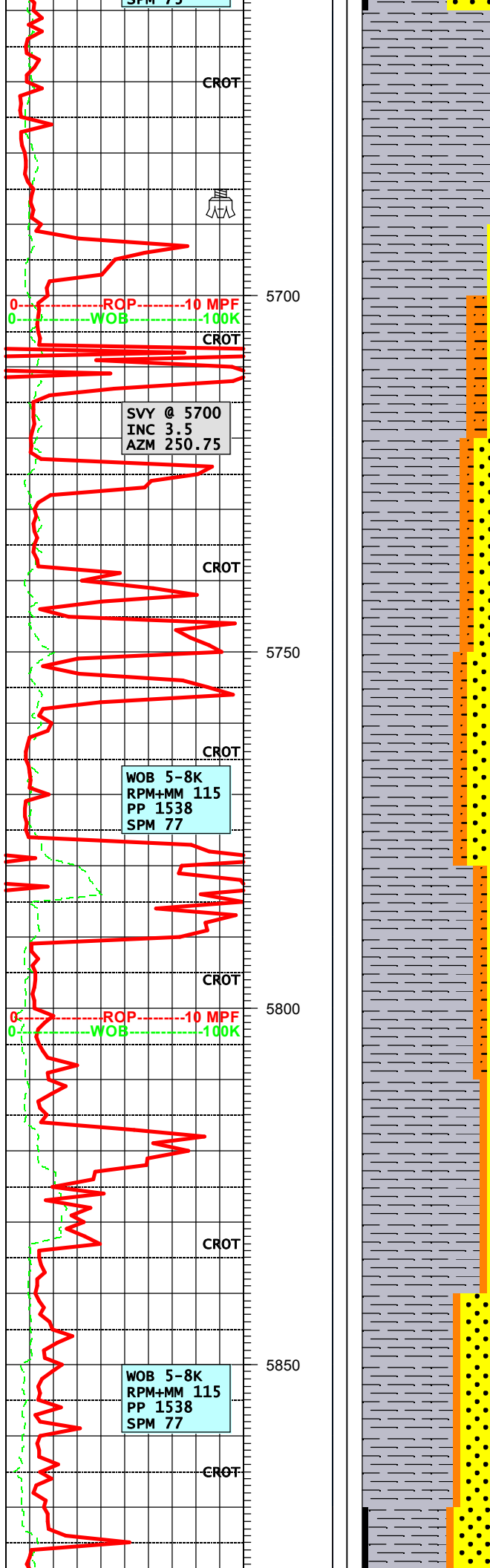
1%

SHOW #7

210u

GAS - 500U  
GAS - 5%  
CO2 - 2%

SAMPLE  
DEPTH  
5650 FT  
WT 9.3



SHALE: DKGRY-LTGY-TN, LAM, FRMHD, BLKY-PLTY, IREG, SLI AREN, NON FISS, CARB, SLI CALC  
TRACE SANDSTONE

NEW BIT #9, 6.5", HTC, 504ZX, PDC, SN7301608, JETS 5x16's, IN AT 5691', OUT AT 8124', AVG 20.1FT/HR, 120.5 BIT HRS, 2433 FT. DRILLED

SHALE: DKGRY-LTGY-TN, BN, GYBN, LAM, FRMHD, BLKY-PLTY, IREG, SLI AREN, NON FISS, CARB

SHALE: DKGRY-LTGY-TN, BN, LAM, FRM-HD, BLKY-PLTY, IREG, SLI AREN, NON FISS, CARB

SAND: TRANSL, OFF-WH, LT GY, VVF-MGR, SBANG-ANG, SB RNDD IP, MOD SRTD, W CONSOL, LSE QTZ GRNS IP,TR PYR, ABDNT MICA, NSFOC

SHALE: DKGRY-LTGY-TN, BN, GYBN, LAM, FRM-HD, BLKY-PLTY, IREG, SLI AREN, NON FISS, CARB

SAND: TRANSL, OFF-WH, LT GY, VVF GR, SBANG-SBRND, W SRTD, UNCONSOL, SUC, LSE QTZ GRNS IP,TR PYR, NSFOC

SHALE: DKGRY-LTGY-TN, BN, GYBN, GYGN, FRM-HD, BLKY-PLTY, IREG, SLI AREN, NON FISS, CARB, NON CALC

SAND: TRANSL, OFF-WH, LT GY, VVF-MGR, SBANG-ANG, SB RNDD IP, MOD SRTD, W CONSOL, LSE QTZ GRNS IP,TR PYR, ABDNT MICA, NSFOC

SILTSTONE: MED GY-DK GY, SFT-FRM, PLANAR-CTY-SB TAB, IREG CTGGS, DULL LSTR, SNDY, CONCH FRAC, GRITT TXT, NON-SLI CALC

SHALE: DK GY-GY, OCC LT GY, PLTY, FLKY, AREN, RTHY, DULL W/RGH GRITT TXT, FRM-BRITT, FISS, SLI CALC

SHALE: M-DK GY, TN, MOD FRM, LAM - INTLAM, RGH TXT, DULL LSTR, NON-FISS, V CALC

SHALE: DKGY-LTGY, TN, BRN, LAM, FRM-HD, BLKY-SB PLTY, IREG, SLTY, AREN, OCC CARB, SLI CALC, TR CALC

SANDSTONE: OFF WHT, GY, TRANSL, OCC CLR, MHD-HD, MOD CONS, VF-F GR, SB ANG-ANG, MOD SRTD, SILS COMP, MOD CMTD, CALS/SILS CMTD, TR MIN FLOR, NO CUT

SANDSTONE: TRANSL, OFF-WH, LT GY, CLR, MOD IND, VF-F GR, SBANG-RDD, SB SELG-SPHER, MOD-W SRTD, PRED CONS, VIT, FRIA IP., SIL CMT, MOD CMTD, SLI CALC, NSFOC

SHALE DKGY-LTGY, TN, BRN, LAM, FRM-HD, BLKY-SB PLTY, IREG, SLTY, AREN, NON FISS, OCC CARB, SLI CALC, TR CALC

SHALE: M-DK GY, TN, MOD FRM, LAM - INTLAM, RGH TXT, DULL LSTR, NON-FISS, V CALC, ARG, ABDNT LSE

WT 9.5  
VIS 38  
YP 8  
CK 2/4  
SOL 7.2%  
PH 8.9  
CHL 475  
Ca 70

1/7-8/2008

SHOW #8

290u

GAS -500U  
GAS -8%  
CO2 -2%

PUMP SWEEP

PUMP SWEEP

1/9/2008

PUMP SWEEP

SAMPLE DEPTH 5691 FT  
WT 9.6  
VIS 44  
YP 11  
CK 1/  
SOL 8%  
PH 9  
CHL 400  
Ca 40

PUMP SWEEP

MWI 9.7  
VIS 46  
MWO 9.7  
VIS 47

GAS -500U  
GAS -8%  
CO2 -2%

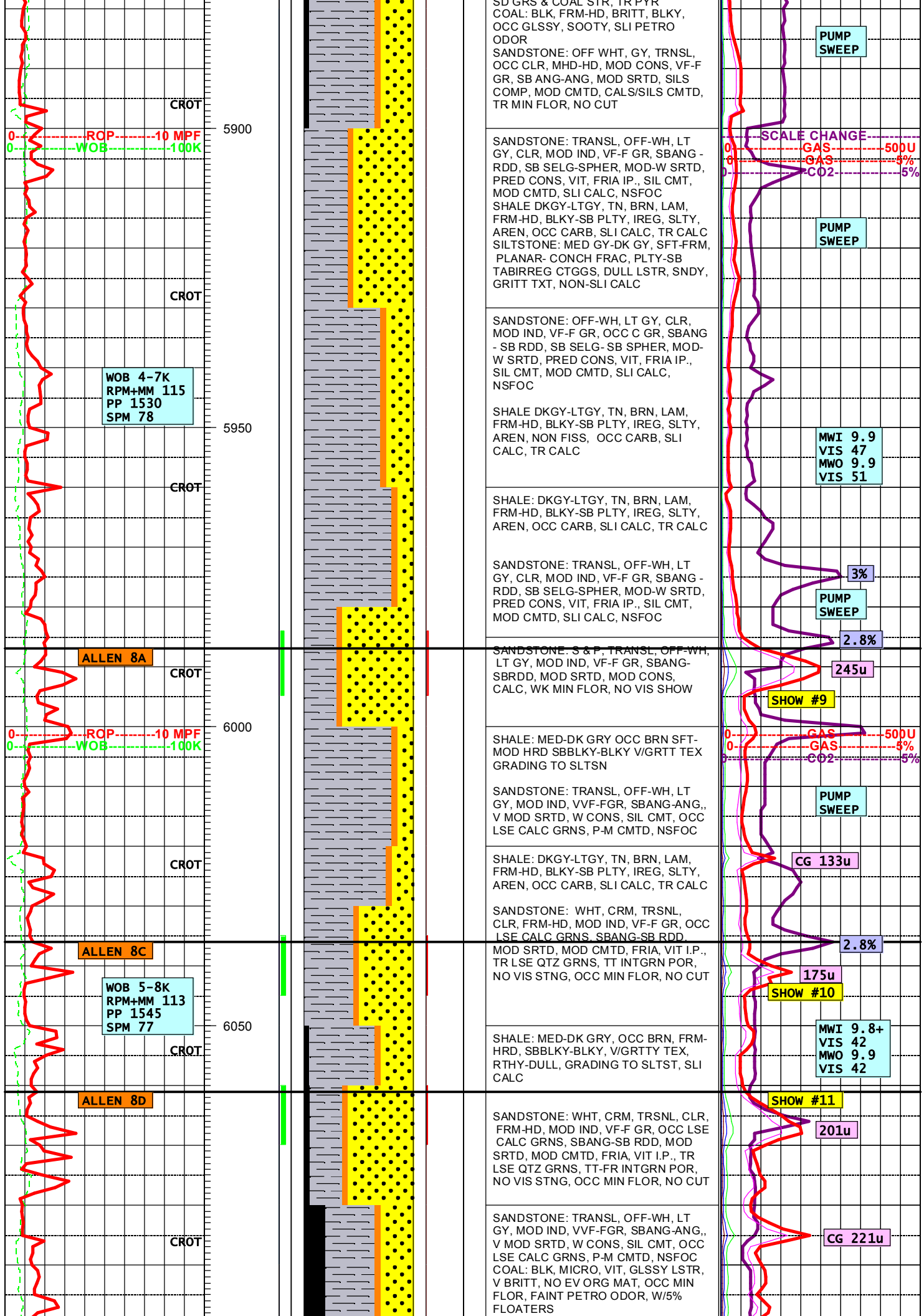
PUMP SWEEP

1.4%

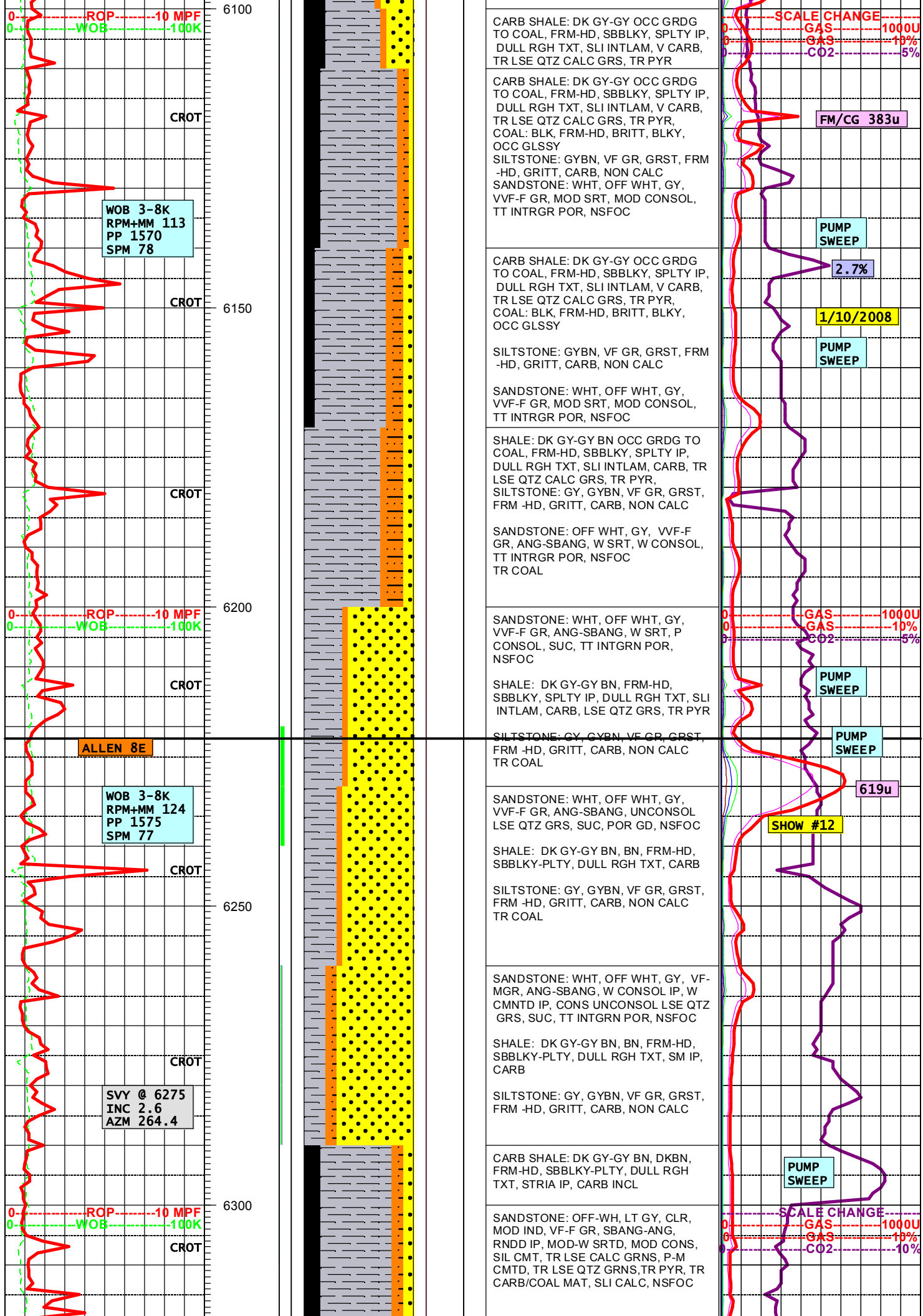
MWI 9.7  
VIS 46  
MWO 9.7  
VIS 47

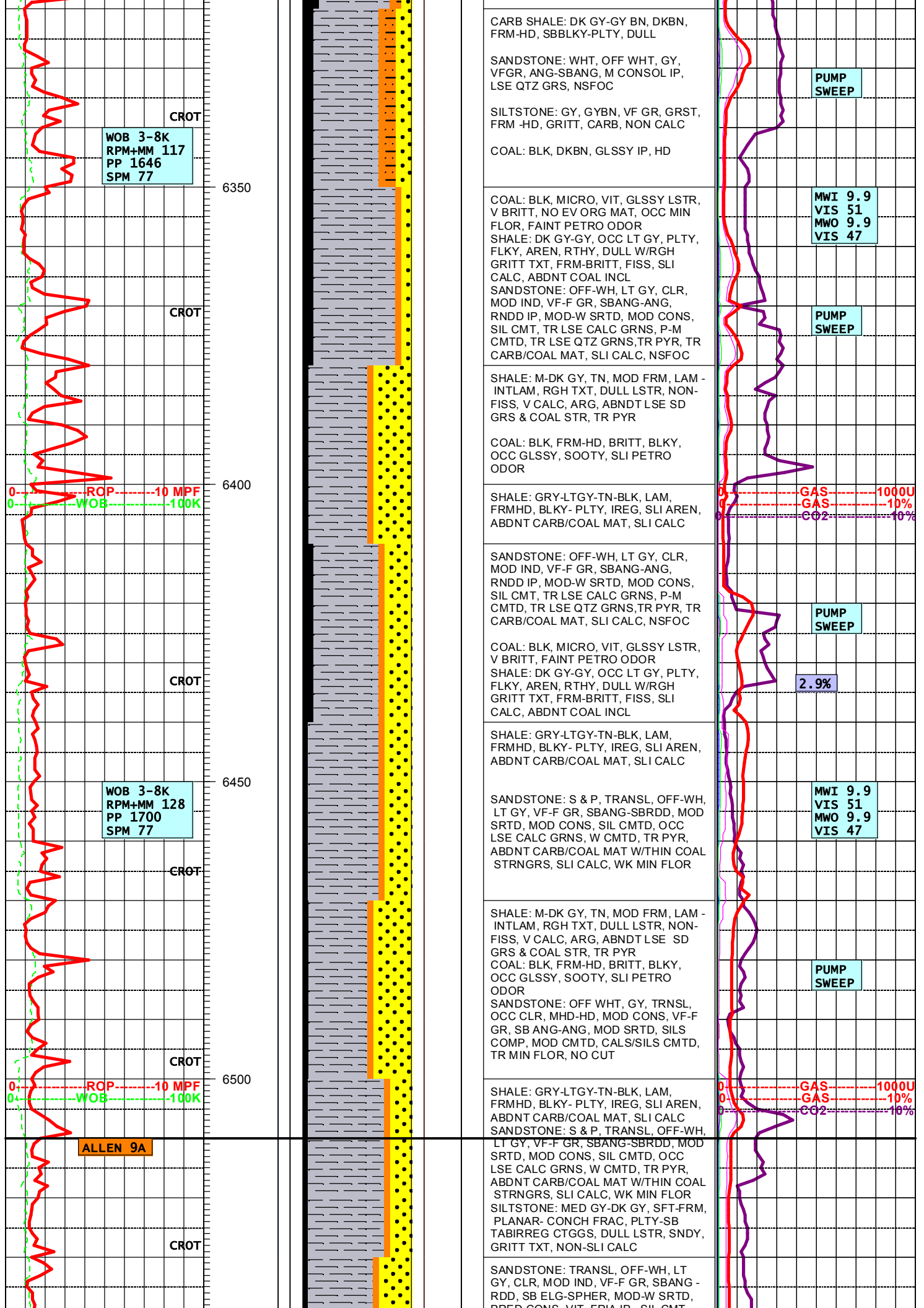
1.1%

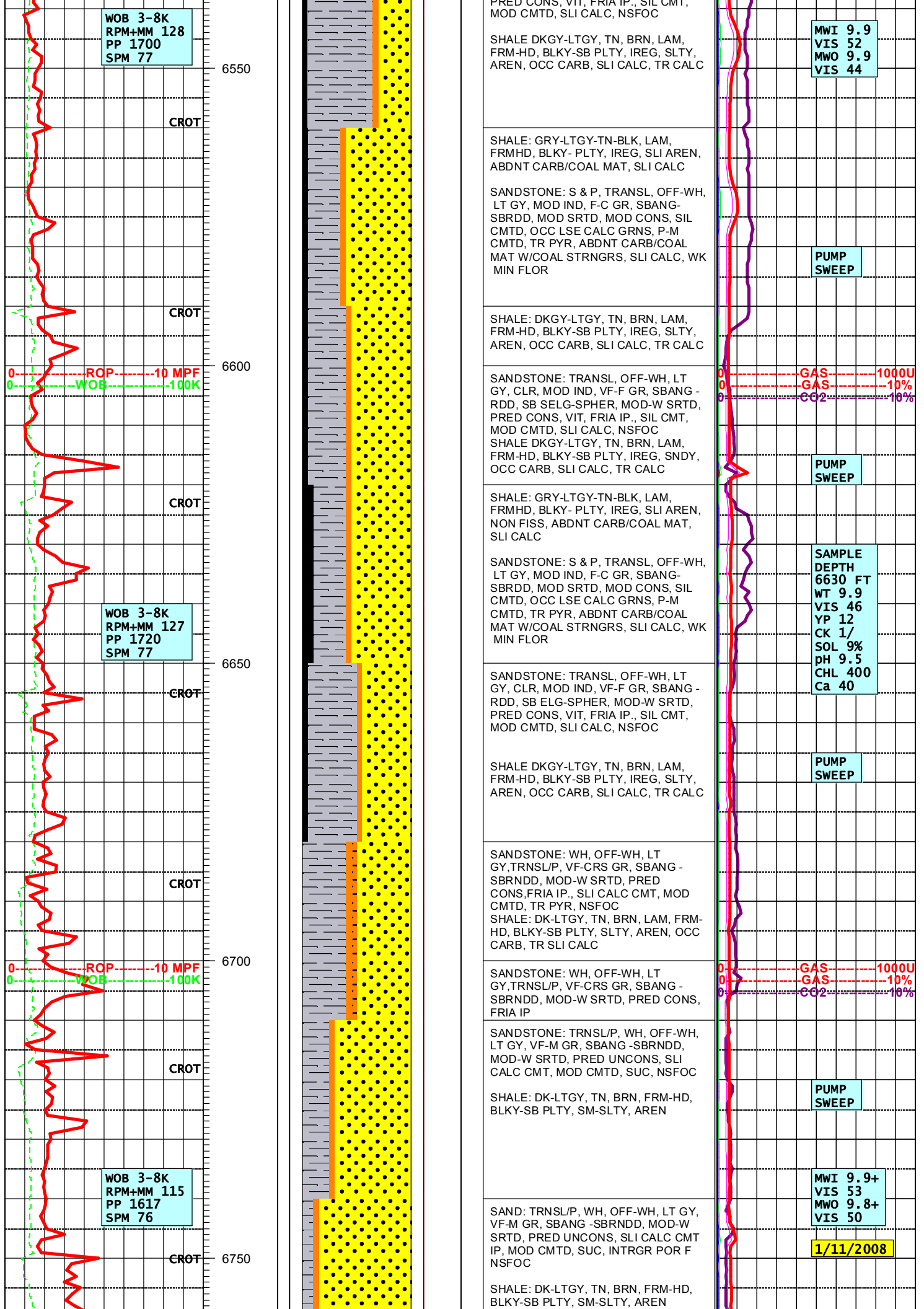




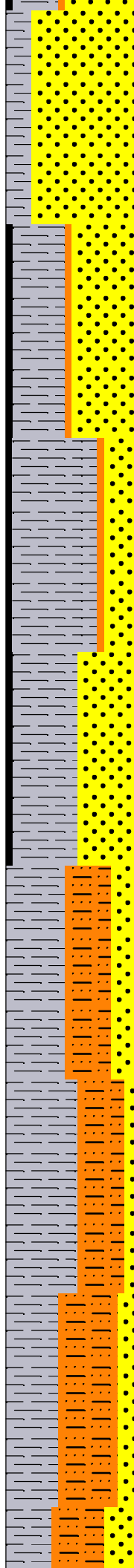
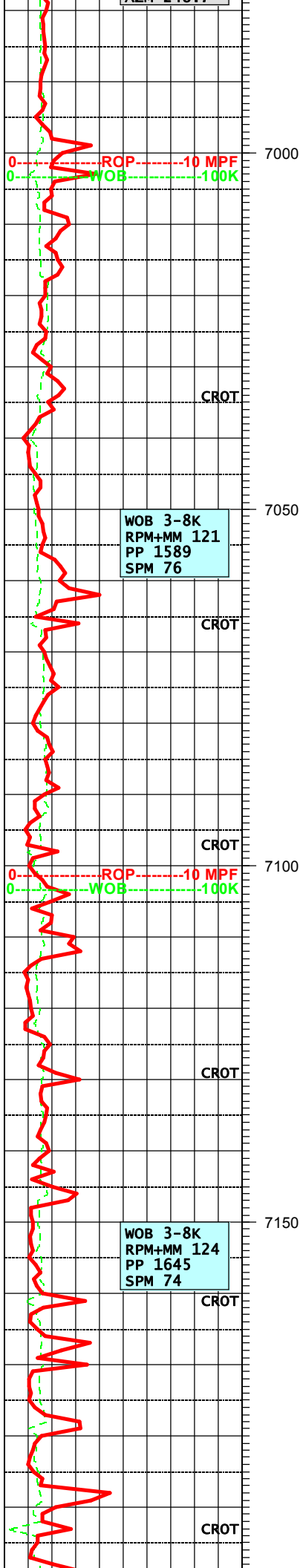












SANDSTONE: TRANSL, OFF-WH, LT GY, CLR, MOD IND, VF-F GR, SBANG - RDD, SB SELG-SPHER, MOD-W SRTD, PRED CONS, VIT, FRIA IP., SIL CMT, MOD CMTD, SLI CALC, NSFOC  
SHALE : LT-DKGY, TN, BRN, LAM, FRM-HD, BLKY-SB PLTY, IREG, SNDY, AREN, NON FISS, OCC CARB, SLI CALC, TR CALC

SHALE: DK GY-GY, OCC LT GY, BRITTFRM, PLTY, FLKY, AREN, RTHY, DULL W/RGH GRITT TXT, V SLTY, NON FISS, NON

SANDSTONE: OFF-WH, LT GY, CLR, MOD IND, VF-F GR, SBANG-ANG, RNDD IP, MOD-W SRTD, MOD CONS, SIL CMT, TR LSE CALC GRNS, P-M CMTD, TR LSE QTZ GRNS, TR PYR, TR CARB/COAL MAT, SLI CALC, NSFOC

SHALE: DK GY-GY, OCC LT GY, PLTY, FLKY, AREN, RTHY, DULL W/RGH GRITT TXT, FRM-BRITT, FISS, SLI CALC, OCC COAL INCL

SHALE: DK GY-GY, OCC LT GY, BRITTFRM, PLTY, FLKY, AREN, RTHY, DULL W/RGH GRITT TXT, V SLTY, NON FISS, NON CALC

SANDSTONE: WHT, CRM, TRSNL, CLR, FRM-HD, MOD IND, VF-F GR, OCC LSE CALC GRNS, SBANG-SB RDD, MOD SRTD, MOD CMTD, FRIA, VIT I.P., TR LSE QTZ GRNS, TT INTGRN POR, NO VIS STNG, OCC MIN FLOR, NO CUT

SANDSTONE: TRANSL, OFF-WH, LT GY, CLR, MOD IND, VF-F GR, SBANG - RDD, SB SELG-SPHER, MOD-W SRTD, PRED CONS, VIT, FRIA IP., SIL CMT, MOD CMTD, SLI CALC, NSFOC

SHALE: DKGY-LTGY, TN, BRN, LAM, FRM-HD, BLKY-SB PLTY, IREG, SLTY, AREN, OCC CARB, SLI CALC, TR CALC

SILTSTONE: MED-DK, GRY, OCC BRN, RTHY, CONCH FRAC, SBBLKY-BLKY, V/SLTY

SHALE LT-DK GRY TN-BRN SFT-MOD/HRD SBBLKY-BLKY SLI AREN GRADING-SILTSTONE NON CALC  
SANDSTONE: OFF WHT-LT GRY FRSTY IP S&P IP F/MED GRNS SBANG-SBRNDD OCC LSE GRNS MOD-W/SRTD MOD CMTD MOD CONL CALC CMT

SHALE: LT-DK GRY TN-BRN SFT-MOD/HRD SBBLKY-BLKY SLI AREN GRADING-SILTSTONE NON CALC

SANDSTONE: OFF WHT-LT GRY FRSTY IP S&P IP F/MED GRNS SBANG-SBRNDD OCC LSE GRNS MOD-W/SRTD MOD CMTD MOD CONL CALC CMT

SILTSTONE: MED-DK GRY OCC BRN RTHY SBBLKY-BLKY V/SLTY

SILTSTONE: MED-DK, GRY, OCC BRN, RTHY, CONCH FRAC, SBBLKY-BLKY, V/SLTY  
SHALE LT-DK GRY TN-BRN SFT-MOD/HRD SBBLKY-BLKY SLI AREN GRADING-SILTSTONE NON CALC  
SANDSTONE: OFF WHT-LT GRY FRSTY IP S&P IP F/MED GRNS SBANG-SBRNDD OCC LSE GRNS MOD-W/SRTD MOD CMTD MOD CONL CALC CMT

SILTACEOUS SHALE: MED GY-DK GY, SFT-FRM, PLANAR- CONCH FRAC, PLTY-SB TABIRREG CTGGS, DULL LSTR, SNDY, GRITT TXT, NON-SLI

PUMP SWEEP

GAS -1000U  
GAS -10%  
CO2 -10%

PUMP SWEEP

2.7%

MWI 9.9  
VIS 51  
MWO 9.9  
VIS 50

GAS -1000U  
GAS -10%  
CO2 -10%

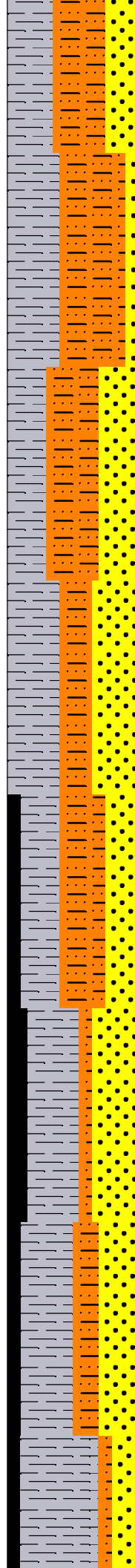
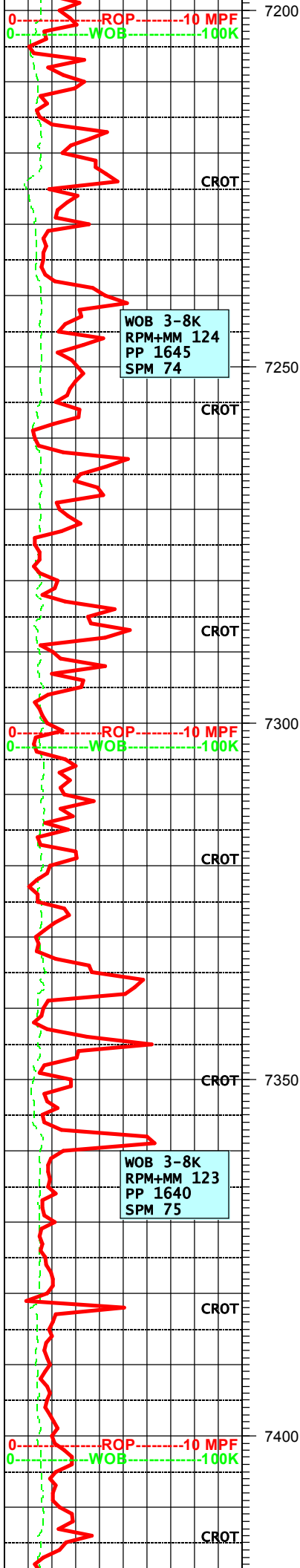
PUMP SWEEP

MWI 9.9  
VIS 52  
MWO 9.9  
VIS 50

CALIBRATE GAS EQUIP.

PUMP SWEEP





SILTSTONE: MED-DK, GRY, OCC BRN, RTHY, CONCH FRAC, SBBLKY-BLKY, V/SLTY

SHALE LT-DK GRY TN-BRN SFT-MOD/HRD SBBLKY-BLKY SLI AREN GRADING-SILTSTONE NON CALC

SHALE: LT-DK GRY TN-BRN SFT-MOD/HRD SBBLKY-BLKY SLI AREN GRADING-SILTSTONE NON CALC

SANDSTONE: OFF WHT-LT GRY FRSTY IP S&P IP F/MED GRNS SBANG-SBRNDD OCC LSE GRNS MOD-W/SRTD MOD CMTD MOD CONL CALC CMT

SILTSTONE: MED-DK GRY OCC BRN RTHY SBBLKY-BLKY V/SLTY

SILTSTONE: MED-DK, GRY, OCC BRN, RTHY, CONCH FRAC, SBBLKY-BLKY, V/SLTY

SHALE LT-DK GRY TN-BRN SFT-MOD/HRD SBBLKY-BLKY SLI AREN GRADING-SILTSTONE NON CALC

SANDSTONE: OFF WHT-LT GRY FRSTY IP S&P IP F/MED GRNS SBANG-SBRNDD OCC LSE GRNS MOD-W/SRTD MOD CMTD MOD CONL CALC CMT

SHALE: LT GY-DK GY, LT GRN, TN, GLAU, PLTY, FLKY, RTHY, DULL W/RGH GRITT TXT, V SLTY, FRM-BRITT SLI CALC  
SANDSTONE: OFF-WH, LT GY, TRNSL, MOD IND, F-M GR, SBANG-ANG, M-W SRTD, MOD CONS, SIL CMT, MOD CMTD, TR LSE QTZ GRNS, TR PYR

SILTACEOUS SHALE: MED GY-DK GY, SFT-FRM, PLANAR- CONCH FRAC, PLTY-SB TAB, IRREG CTGGS, DULL LSTR, SNDY, GRITT TXT, NON-SLI

SILTSTONE: MED-DK, GRY, OCC BRN, RTHY, CONCH FRAC, SBBLKY-BLKY, V/SLTY  
SHALE: LT-DK GRY, TN, BRN, FRM-HRD, SBBLKY-BLKY, SLI AREN, GRADING TO SILTSTONE, NON CALC  
SANDSTONE: OFF WHT-LT GRY FRSTY IP S&P IP F/MED GRNS SBANG-SBRNDD OCC LSE GRNS MOD-W/SRTD MOD CMTD MOD CONL CALC CMT

SHALE: M-DK GY, TN, MOD FRM, LAM -INTLAM, RGH TXT, DULL LSTR, NON-FISS, V CALC, ARG, ABNDT LSE SD GRS & COAL STR, TR PYR  
COAL: BLK, FRM-HD, BRITT, BLKY, OCC GLSSY, SOOTY, SLI PETRO ODOR

SANDSTONE: OFF WHT, GY, TRNSL, OCC CLR, MHD-HD, MOD CONS, VF-F GR, SB ANG-ANG, MOD SRTD, SILS COMP, MOD CMTD, CALS/SILS CMTD, TR MIN FLOR, NO CUT

SHALE: LT-DK GRY, TN, BRN, FRM-HRD, SBBLKY-BLKY, SLI AREN, SM-GRITT, NON CALC

SANDSTONE: WHT-LT GRY OPQ IP S&P IP F/MED GRNS SBANG-SBRNDD OCC LSE GRNS MOD-W/SRTD MOD CMTD MOD CONL CALC CMT

SILTSTONE: MED-DK GRY GRYBN OCC BRN VVF GR RTHY HD SBBLKY-BLKY V/SLTY SLI CALC

SILTACEOUS SHALE: MED GY-DK GY, SFT-FRM, PLANAR- CONCH FRAC, PLTY-SB TABIRREG CTGGS, DULL LSTR, SNDY, GRITT TXT, NON-SLI CALC

COAL: BLK, MICRO, VIT, GLSSY LSTR, V BRITT, NO EV ORG MAT, OCC MIN

GAS 1000U  
GAS 10%  
CO2 10%

PUMP SWEEP

MWI 10.0  
VIS 51  
MWO 10.0+  
VIS 53

1/12/2008

GAS 1000U  
GAS 10%  
CO2 10%

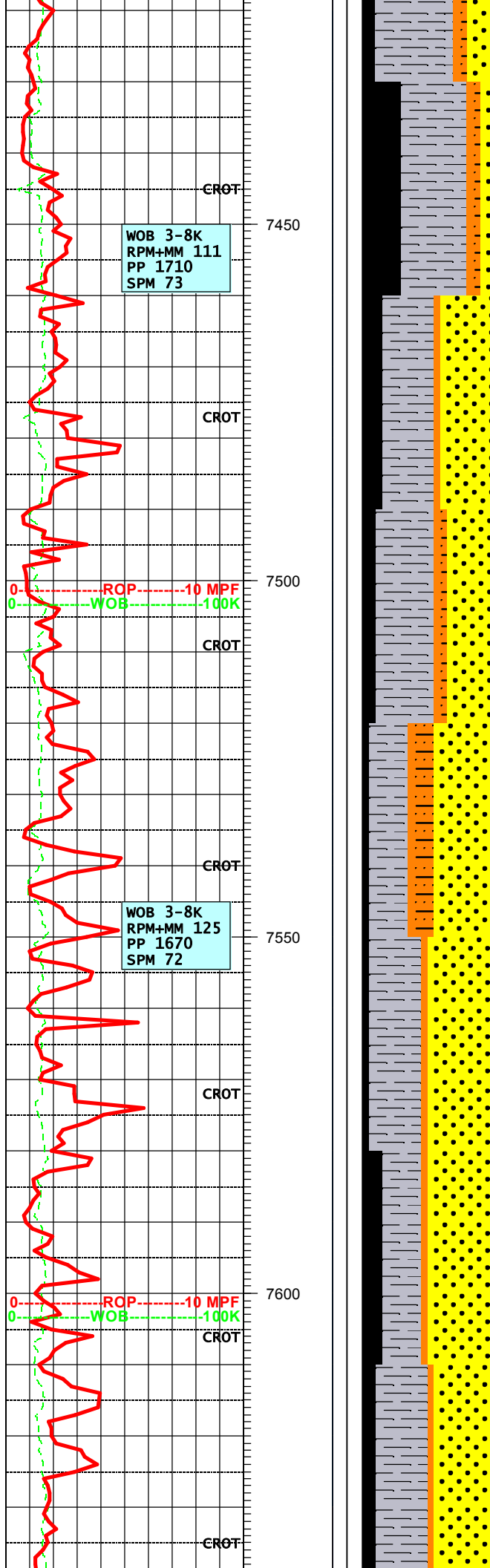
PUMP SWEEP

SAMPLE DEPTH 7350 FT  
WT 10.0  
VIS 52  
YP 22  
CK 1/  
SOL 9.5%  
PH 9.5  
CHL 400  
Ca 40

GAS 1000U  
GAS 10%  
CO2 10%

PUMP SWEEP





FLOOR, FAINT PETRO ODOR, W/5% FLOATERS

SANDSTONE: OFF-WH, TRNSL, CLR, MOD IND, VF-F GR, SBANG-SB RNDD, MOD-W SRTD, MOD CONS, SIL CMT, TR LSE CALC GRNS, P-M CMTD, TT-FR VIS INTRN POR, TR LSE QTZ GRNS, TR PYR, TR CARB/COAL MAT, SLI CALC, NSFOC

COAL: BLK, MICRO, VIT, GLSSY LSTR, V BRITT, NO EV ORG MAT, OCC MIN FLOOR, FAINT PETRO ODOR, W/10-15% FLOATERS

SHALE: M-DK GY, TN, MOD FRM, LAM - INTLAM, RGH TXT, DULL LSTR, NON-FISS, V CALC, ARG, COAL STR, TR PYR  
COAL: BLK, FRM-HD, BRITT, BLKY, OCC GLSSY, SOOTY, FAINT PETRO ODOR

SANDSTONE: OFF WHT, GY, TRNSL, OCC CLR, MHD-HD, MOD CONS, VF-F GR, SB ANG-ANG, MOD SRTD, SILS COMP, MOD CMTD, CALS/SILS CMTD, TR MIN FLOOR, NO CUT

SHALE: M-DK GY, TN, FRM, LAM - INTLAM, RGH TXT, DULL, NON-FISS, CALC, ARG, COAL STR, TR PYR

SHALE: M-DK GY, TN, FRM, LAM - INTLAM, RGH TXT, DULL, NON-FISS, CALC, ARG, COAL STR, TR PYR

SANDSTONE: OFF WHT, GY, TRNSL, CLR, MHD, MOD CONS, VF-M GR, SB ANG-ANG, MOD SRTD, MOD CMTD, SLI CALC CMTD, ABDNT COAL, NO CUT

SANDSTONE: OFF WHT, GY, GYBN MOTT, MHD, MOD CONS, VF-M GR, SB ANG-ANG, MOD SRTD, MOD CMTD, CALC CMTD IP, NO CUT

SHALE: M-DK GY, TN, BN, FRM, LAM - INTLAM, RGH TXT, DULL, NON-FISS, CALC, ARG, COAL STR, TR PYR

COAL: BLK, FRM-HD, BRITT, BLKY, GLSSY, SOOTY

COAL: BLK, MICRO, VIT, GLSSY LSTR, V BRITT, FAINT PETRO ODOR

SANDSTONE: TRANSL, OFF-WH, LT GY, MOD IND, VVF-FGR, SBANG-ANG,, V MOD SRTD, W CONS, SIL CMT, OCC LSE CALC GRNS, P-M CMTD, TR LSE QTZ GRNS, TR PYR, ABDNT CARB/COAL MAT W/ COAL STNGRS, SLI CALC, NSFOC

SANDSTONE: TRANSL, OFF-WH, LT GY, CLR, MOD IND, VF-F GR, SBANG - RDD, SB SELG-SPHER, MOD-W SRTD, PRED CONS, VIT, FRIA IP., SIL CMT, MOD CMTD, SLI CALC, NSFOC  
SHALE: DKGY-LTGY, TN, BRN, LAM, FRM-HD, BLKY-SB PLTY, IREG, SLTY, AREN, OCC CARB, SLI CALC, TR CALC

SHALE: GRY-LTGY-TN-BLK, LAM, FRMHD, BLKY- PLTY, IREG, SLI AREN, ABDNT CARB/COAL MAT, SLI CALC

SHALE: M-DK GY, TN, MOD FRM, LAM - INTLAM, RGH TXT, DULL LSTR, NON-FISS, V CALC, ARG, ABDNT LSE SD GRS & COAL STR, TR PYR  
COAL: BLK, FRM-HD, BRITT, BLKY, OCC GLSSY, SOOTY, SLI PETRO ODOR

SANDSTONE: OFF WHT, GY, TRNSL, OCC CLR, MHD-HD, MOD CONS, VF-F GR, SB ANG-ANG, MOD SRTD, SILS COMP, MOD CMTD, CALS/SILS CMTD, TR MIN FLOOR, NO CUT

156u

MWI 9.7+  
VIS 52  
MWO 9.7+  
VIS 50

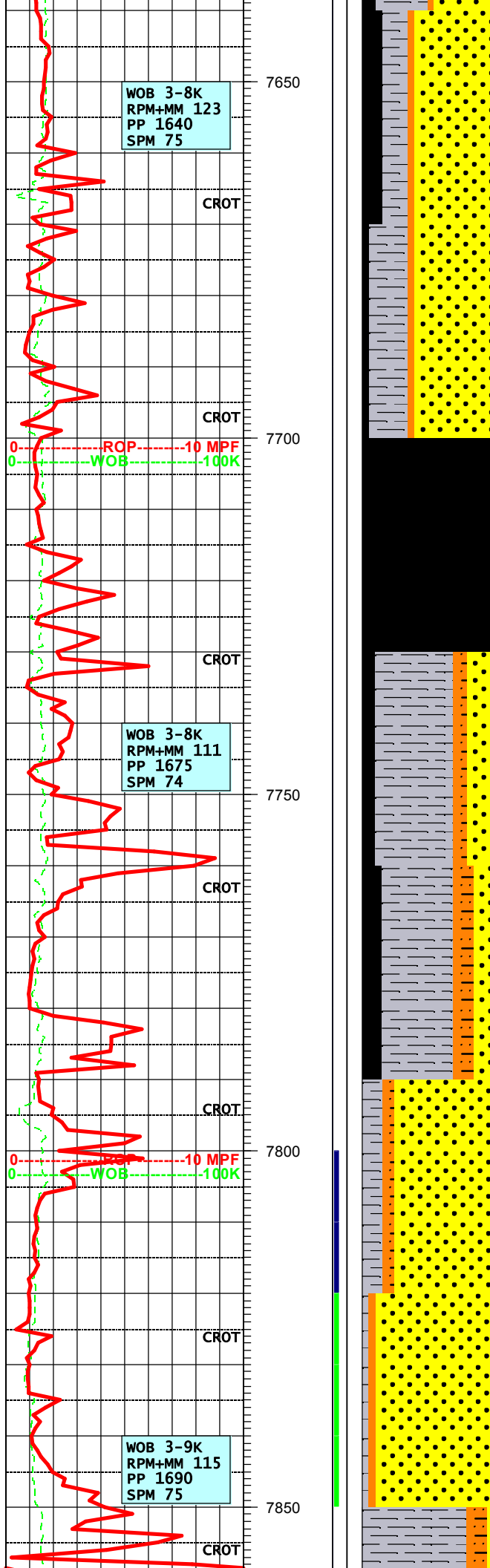
PUMP  
SWEEP

MWI 9.9  
VIS 50  
MWO 10.0  
VIS 53

PUMP  
SWEEP

GAS 1000U  
GAS 10%  
CO2 10%

GAS 1000U  
GAS 10%  
CO2 10%



TR MINT FLOK, NO COI

COAL: BLK, MICRO, VIT, GLSSY LSTR,  
V BRITT, FAINT PETRO ODOR

SANDSTONE: TRANSL, OFF-WH, LT  
GY, MOD IND, VVF-FGR, SBANG-ANG,,  
V MOD SRTD, W CONS, SIL CMT, OCC  
LSE CALC GRNS, P-M CMTD, TR LSE  
QTZ GRNS, TR PYR, ABDNT  
CARB/COAL MAT W/ COAL STNGRS,  
SLI CALC, NSFOC

MWI 10.1+  
VIS 50  
MWO 10.0  
VIS 53

SHALE: DK GY-GY, OCC LT GY, PLTY,  
FLKY, AREN, RTHY, DULL W/RGH  
GRITT TXT, FRM-BRITT, NON FISS, SLI  
CALC, ABDNT COAL INCL

PUMP  
SWEEP

SANDSTONE: S & P, TRANSL, OFF-WH,  
LT GY, MOD IND, VF-F GR, SBANG-  
RDD, SRTD, W CONS, OCC LSE CALC  
GRNS, P-M CMTD, TR PYR, ABDNT  
CARB/COAL MAT W/COAL STRNGRS,  
SLI CALC, WK MIN FLOR

251u

COAL: BLK, GLSSY, HD, BLKY, TR  
SANDSTONE, TR SILTSTONE, TR  
SHALE

GAS 1000U  
GAS 10%  
CO2 10%

SHALE: DK-MGY, HD, PLTY-BLKY,  
RTHY, CARB, NON CALC

PUMP  
SWEEP

SANDSTONE: OFFWHT, GY, GYBN,  
S&P, MOTT, VF-M GR, ANG, MOD SRT,  
W CONSOL, CALC, NSFOC

SILTSTONE: GY, GYBN, MOTT, GRST,  
VVF-F, BLKY-PLTY, CARB, SLI CALC

MWI 9.9++  
VIS 56  
MWO 99.8+  
VIS 53

SHALE: DK-MGY, BN, HD, PLTY-BLKY,  
RTHY, CARB, NON CALC

PUMP  
SWEEP

SANDSTONE: OFFWHT, GY, GYBN,  
S&P, MOTT, VF-M GR, ANG, MOD SRT,  
W CONSOL, CALC, NSFOC

SILTSTONE: GY, GYBN, MOTT, GRST,  
VVF-F, BLKY-PLTY, CARB, SLI CALC

COAL: BLK, DULL -GLSSY, BLKY,  
FLOATS, NON CALC

1/13/2008

SANDSTONE: WHT, OFFWHT, GY,  
GYBN, S&P, MOTT, CLR, VF-M GR,  
ANG, MOD SRT, W CONSOL, CALC,  
INTRGR POR F, NSFOC

GAS 1000U  
GAS 10%  
CO2 10%

SANDSTONE: WHT, OFFWHT, GY,  
GYBN, S&P, MOTT, CLR, VF-M GR,  
ANG, MOD SRT, W CONSOL, CALC,  
INTRGR POR F, NSFOC, TR COAL  
SHALE: DK-MGY, BN, HD, PLTY-BLKY,  
RTHY, CARB, NON CALC  
SILTSTONE: GY, GYBN, MOTT, GRST,  
VVF-F, BLKY-PLTY, CARB, SLI CALC

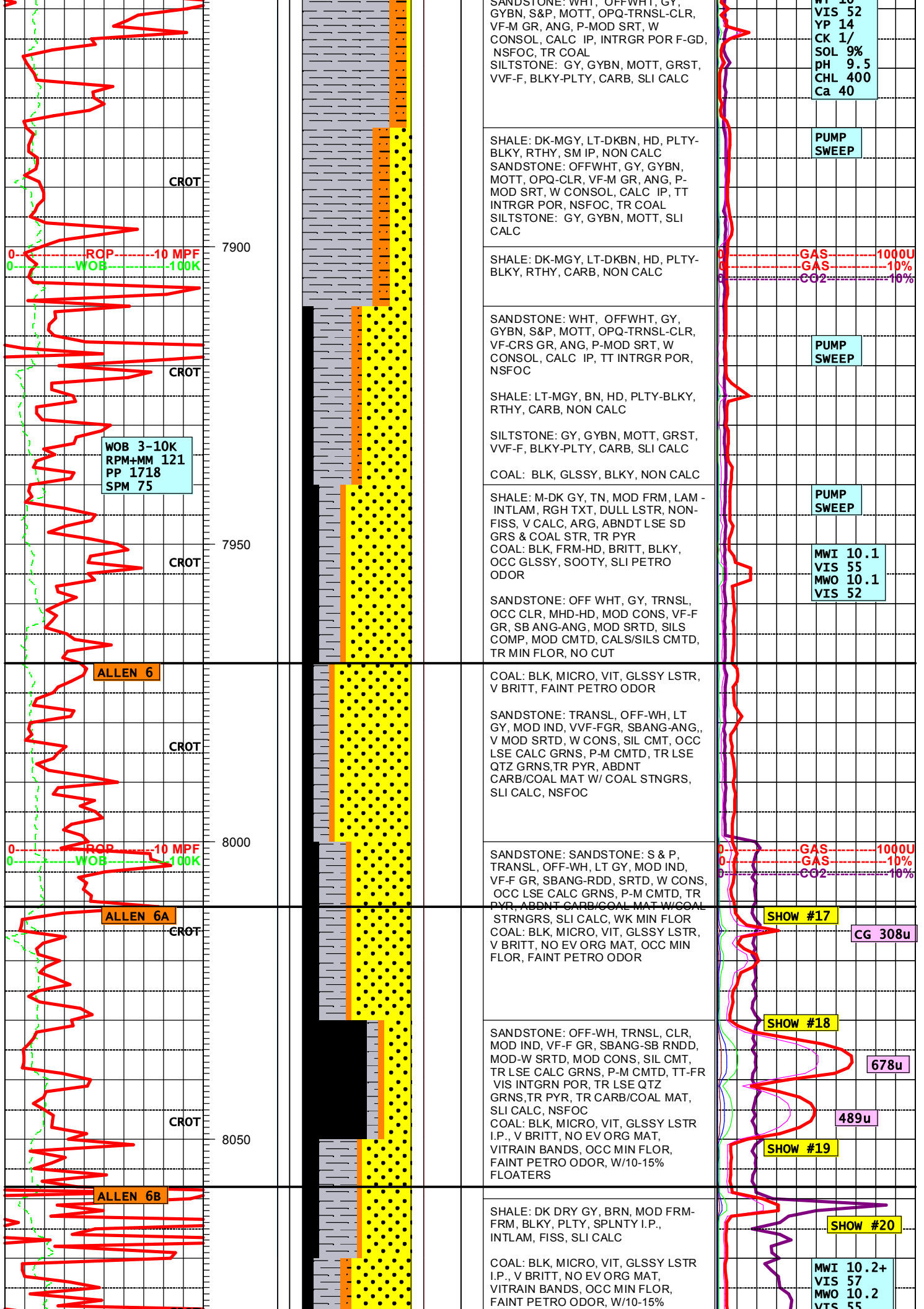
SHOW #16

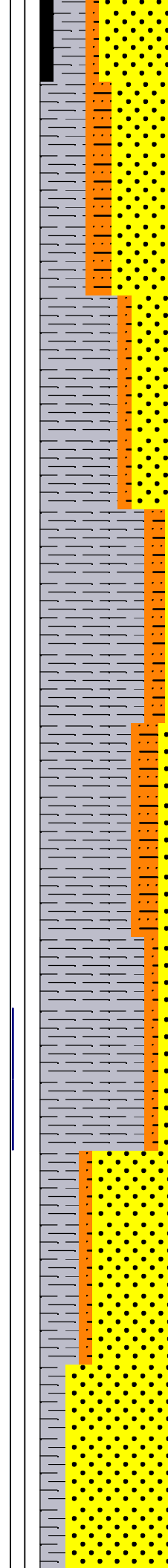
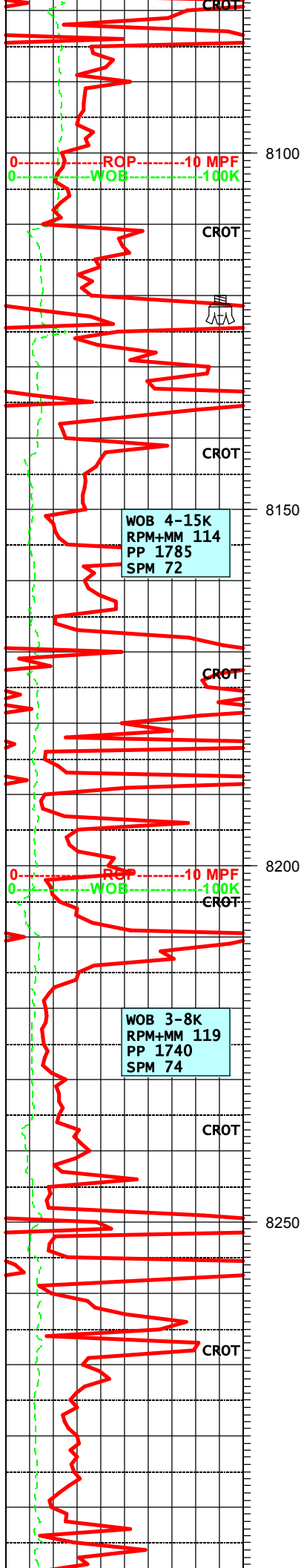
SANDSTONE: WHT, OFFWHT, GY,  
GYBN, S&P, MOTT, OPQ-TRNSL-CLR,  
VF-M GR, ANG, P-MOD SRT, W  
CONSOL, CALC IP, INTRGR POR F-GD,  
NSFOC, TR COAL  
SHALE: DK-MGY, BN, HD, PLTY-BLKY,  
RTHY, CARB, NON CALC  
SILTSTONE: GY, GYBN, MOTT, GRST,  
VVF-F, BLKY-PLTY, CARB, SLI CALC

539u

SHALE: DK-MGY, LT-DKBN, HD, PLTY-  
BLKY, RTHY, CARB, NON CALC, TR  
COAL  
SANDSTONE: WHT, OFFWHT, GY,

SAMPLE  
DEPTH  
7850 FT  
WT 10





FLOATERS

SANDSTONE: OFF-WH, TRNSL, CLR,  
MOD IND, VF-M, SBANG-SB RND, M/W  
SRT, M/CONS, SIL CMT, LSE CALC  
GRNS, M/CMTD, SLI CALC, NSFOC

PUMP  
SWEEP

SANDSTONE: OFF-WH, TRNSL, CLR,  
MOD IND, VF-M GR, SBANG, MOD  
SRTD, MOD CONS, SIL CMT, LSE  
CALC GRNS, CARB/COAL MAT, SLI  
CALC, NSFOC  
SHALE DKGY-LTGY, TN, BRN, LAM,  
FRM-HD, BLKY-SB PLTY, IREG, SLTY,  
AREN

1/14/2008

NEW BIT #10, 6.5", HTC, 504Z, PDC,  
SN7108310, JETS 5x16's, IN AT 8124',  
OUT AT 8651', AVG 18.1FT/HR, 29 BIT  
HRS, 527 FT. DRILLED

SHOW #21

263u

SHALE: LTGY-OCC DK GY, TN, OCC  
BRN, MOD FRM, SLTY, LAM - INTLAM,  
SPLTY IP, RGH TXT, DULL LSTR,  
NONFISS, V LMY, V CALC, AREN,  
ABNDT LSE SD GRS & SS STR, TR  
CARB/COAL MAT

SAMPLE  
DEPTH  
8140 FT  
WT 10.2  
VIS 55  
YP 17  
CK 1/  
SOL 9%  
PH 9.5  
CHL 400  
Ca 40

SILTSTONE: MED GY-DK GY, SFT-FRM,  
PLANAR- CONCH FRAC, PLTY-SB TAB,  
IRREG CTGGS, DULL LSTR, SNDY,  
GRITT TXT, NON-SLI CALC

SHALE: DK GY-GY, OCC LT GY, PLTY,  
FLKY, AREN, RTHY, DULL W/RGH  
GRITT TXT, FRM-BRITT, FISS, SLI  
CALC

SHALE: DK GY-GY, OCC LT GY, PLTY,  
FLKY, AREN, RTHY, DULL W/RGH  
GRITT TXT, FRM-BRITT, FISS, SLI  
CALC

1/15/2008

SILTSTONE: MED GY-DK GY, SFT-FRM,  
PLANAR- CONCH FRAC, PLTY-SB TAB,  
IRREG CTGGS, DULL LSTR, SNDY,  
GRITT TXT, NON-SLI CALC

SHALE: DK GY-GY, OCC LT GY, PLTY,  
FLKY, AREN, RTHY, DULL W/RGH  
GRITT TXT, FRM-BRITT, FISS, SLI  
CALC

GAS 1000U  
GAS 10%  
CO2 10%

SHALE: DKGY, GYBN, DKBN, BLKY-  
PLTY, FLKY, RTHY, DULL, FRM-HD,  
NON CALC

PUMP  
SWEEP

SANDSTONE: OFF-WH, TRNSL, CLR,  
MOD IND, VF-M GR, SBANG, MOD  
SRTD, MOD CONS, SIL CMT, SLI CALC  
IP, TT-FR INTRGR POR, NSFOC

SHOW #22

254u

SANDSTONE: OFF-WH, TRNSL, CLR,  
MOD IND, VF-M GR, SBANG, MOD  
SRTD, MOD CONS, SIL CMT, NON  
CALC, TT-FR INTRGR POR, NSFOC

MWI 10.3+  
VIS 53  
MWO 10.2  
VIS 56

SILTSTONE: MED GY-GYBN, BN, FRM,  
PLTY-SB TAB, IRREG CTGGS, DULL,  
GRITT TXT, NON CALC

SHALE: DKGY-GY, GYBN, DKBN,  
BLKY-PLTY, FLKY, RTHY, DULL, FRM-  
HD, NON CALC

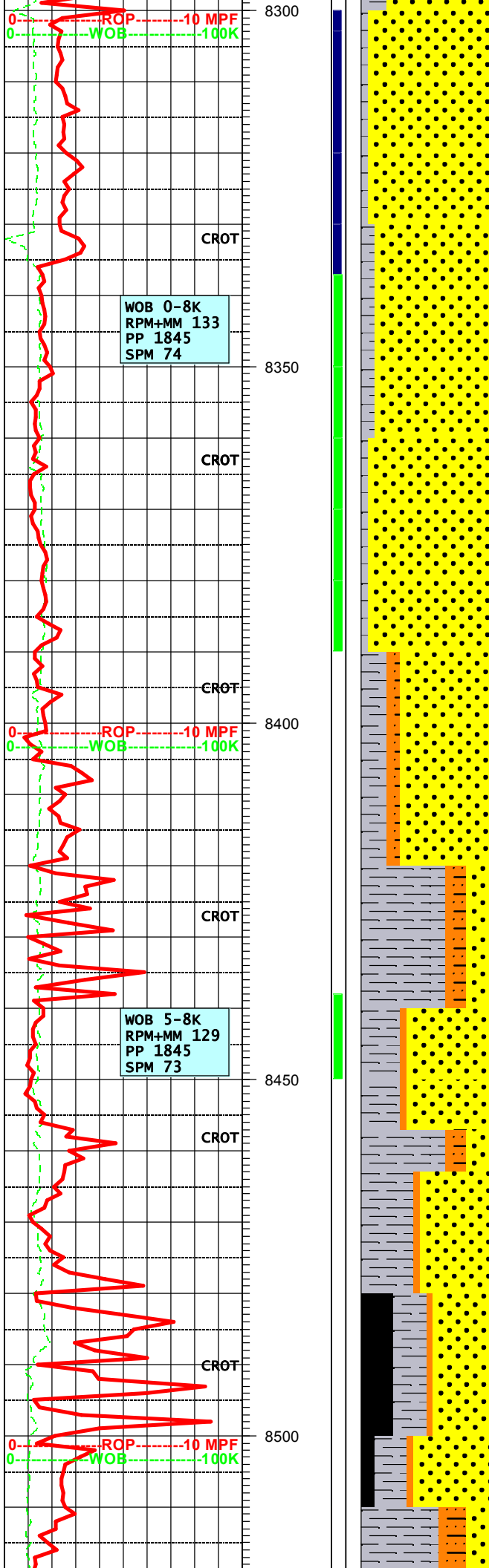
PUMP  
SWEEP

SANDSTONE: OFF-WH, TRNSL, CLR,  
MOD IND, VF-M GR, ANG, MOD SRTD,  
MOD CONS, ABDNT LSE QTZ GRNS,  
SIL CMT, NON CALC, TT INTRGR POR,  
NSFOC, TR SILTSTONE

SHOW #23

116u

SHALE: DKGY-GY, GYBN, DKBN,  
BLKY-PLTY, FLKY, RTHY, DULL, FRM-  
HD, NON CALC



SANDSTONE: OFF-WH, TRNSL, CLR, MOD IND, VF-M GR, ANG, MOD SRTD, MOD CONS, ABDNT LSE QTZ GRNS, SIL CMT, NON CALC, TT INTRGR POR, NSFOC, TR SILTSTONE

SHALE: DKGY-GY, GYBN, DKBN, BLKY-PLTY, FLKY, RTHY, DULL, FRM-HD, NON CALC

SHALE: DKGY-LTGY, TN, BRN, INT LAM, FRM-HD, BLKY-SB PLTY, IREG, AREN, NON FISS, OCC CARB, SLI CALC, TR COAL

SAND: CLR, OFF-WH, LT GY, CLR, MOD IND, VF-F GR, SBANG -SB RDD, SB SELG-SB SPHER, MOD-W SRTD, MOD CMTD, MOD CONS-UNCONS, VIT, FRIA IP., GD VIS INTRGRN POR, SLI CALC, 10-15% BRT BLU-DULL YEL PINPOINT-SPOTTY FLUOR W/RESID RNG UNDER UV LT USING SOLVENT, TR CUT

SAND: TRANSL, CLR, OFF-WH, LT GY, CLR, MOD IND, VF-F GR, SBANG -SB RDD, SB SELG-SB SPHER, MOD-W SRTD, MOD CMTD, MOD CONS-UNCONS, VIT, FRIA IP., GD VIS INTRGRN POR, SLI CALC, 10-20% BRT BLU-DULL YEL PINPOINT-SPOTTY FLUOR W/RESID RNG UNDER UV LT USING SOLVENT, TR CUT

SHALE: DKGY-LTGY, TN, BRN, INT LAM, FRM-HD, BLKY-SB PLTY, IREG, AREN, NON FISS, OCC CARB, SLI-NON CALC

SHALE: LT-DK GRY TN-BRN SFT-MOD/HRD SBBLKY-BLKY SLI AREN GRADING-SILTSTONE NON CALC

SANDSTONE: TRANSL, OFF-WH, LT GY, CLR, MOD IND, VF-F GR, SBANG -SB RDD, SB SELG-SB SPHER, MOD-W SRTD, SIL & MOD CMTD, PRED CONS, VIT, FRIA IP., FR-GD VIS INTRGRN POR, SLI CALC

SHALE: LTGY-OCC DK GY, TN, OCC BRN, MOD FRM, SLTY, LAM - INTLAM, SPLTY IP, RGH TXT, DULL LSTR, NONFISS, V LMY, V CALC, AREN, ABDNT LSE SD GRS & SS STR

SAND: TRANSL, OFF-WH, LT GY, CLR, MOD IND, VF-F GR, SBANG -SB RDD, SB SELG-SB SPHER, MOD-W SRTD, SIL & MOD CMTD, PRED CONS, VIT, FRIA IP., FR-GD VIS INTRGRN POR, SLI CALC, SLI VIS FLOR 3-5%, W/DULL YELL FLOR

SHALE: DK GY-GY, OCC LT GY, BRITT-FRM, PLTY,FLKY, AREN, RTHY, DULL W/RGH GRITT TXT, V SLTY, NON FISS, NON CALC

SILTSTONE: MED GY-DK GY, SFT-FRM, PLANAR- CONCH FRAC, PLTY-SB TABIRREG CTGGS, DULL LSTR, SNDY, GRITT TXT, NON-SLI CALC

COAL: BLK, MICRO, VIT, GLSSY LSTR, V BRITT, FAINT PETRO ODOR

SANDSTONE:OFF-WH, LT GY, MOD IND, VVF-FGR, SBANG-ANG, MOD SRTD, P CONS, OCC LSE CALC GRNS, P CMTD, TR LSE QTZ GRNS,TR PYR, ABDNT CARB/COAL MAT W/ COAL STNGRS, SLI CALC, NSFOC

SANDSTONE: SANDSTONE: S & P, TRANSL, OFF-WH, LT GY, VF-F, SBANG-RDD, SRTD, W CONS, OCC LSE CALC GRNS, P-M CMTD, TR PYR

SHALE: M-DK GY, TN, MOD FRM, LAM - INTLAM, RGH TXT, DULL LSTR, NON-FISS, V CALC, ARG, ABDNT LSE SD GRS & COAL STD, TR PYR

