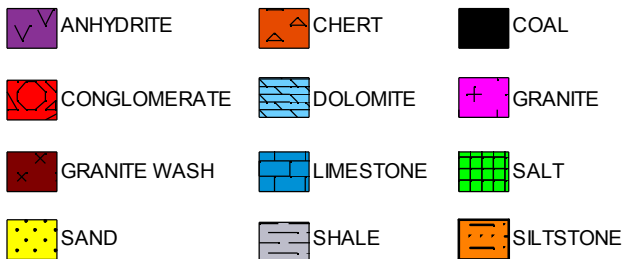


GEOLOGICAL CONSULTING / SURFACE LOGGING SERVICES

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: CARL ALLEN #27

Field: POWDER WASH 69800

API: 05-081-07409

Location: 368' FNL & 1516' FWL, NE NW, SEC 33, T-12-N, R-97-W

County: MOFFAT

State: COLORADO

Logger: RICHARD LANDRY, CALVIN HUTSON, GUY CONLEY

Interval: 600'

To: 8899'

Date: 1/20/2008

To: 2/16/2008

Unit: 34

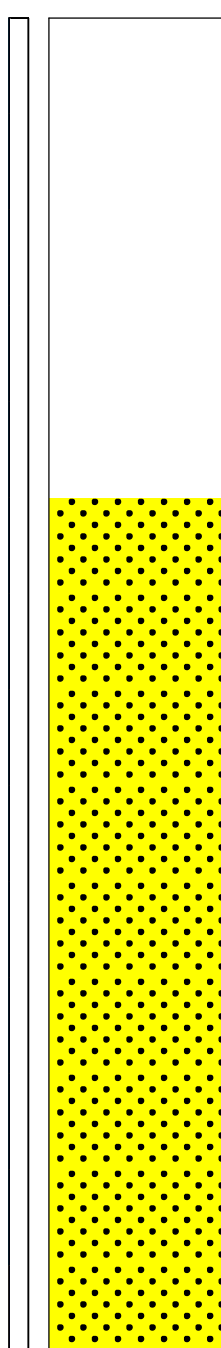
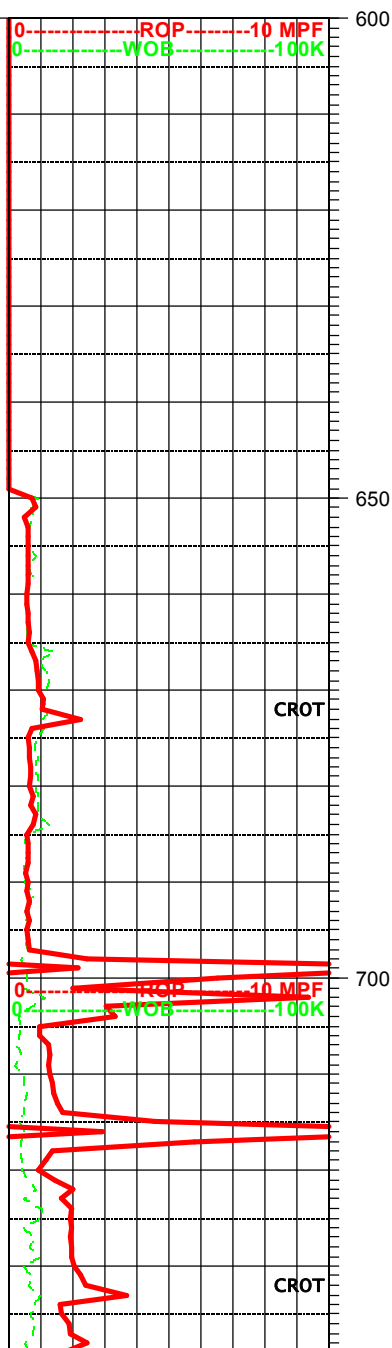
Well#: 4467

Kelly Bushing: 6594

Phone: 307-350-5249

Ground Level: 6581

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



TWO MAN OPERATION ON 01/25/2008 ON UNIT #137

DRILLING WITH BIT #2, 7-7/8", HUGHES 605Z, 7118921, JETS 7X14, IN AT 495 FT.

GAS INSTRUMENTS CALIBRATED TO SPECIFICATIONS 1% METHANE =100 units, 10% METHANE =1000 units

CHROMATOGRAPH C1=20%, C2=20%, C3=20%, iC4=20%, nC4=20%

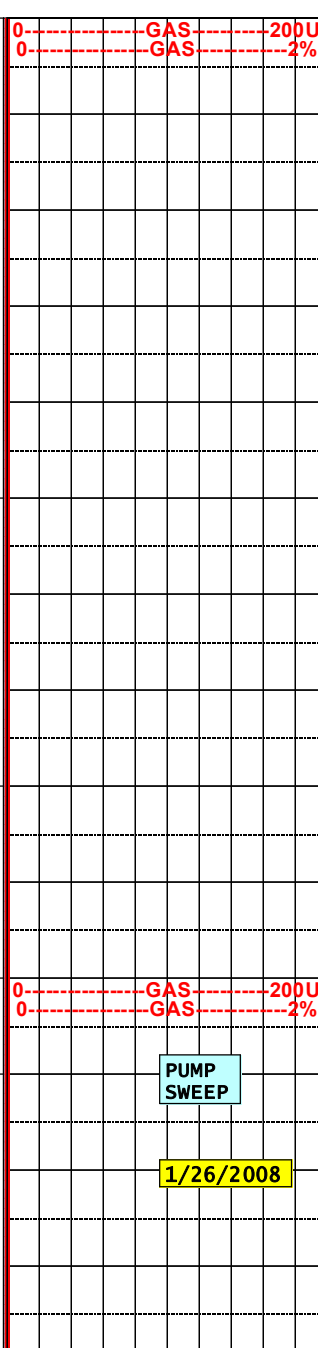
INITIAL DRLG PARAMETERS: WOB 0.5-7K, SPM 101, RPM 78, PP 419 PSI, INITIAL LAG STROKES 864 STKS @ 600 FEET OR 8.55 MIN @ 101SPM

SAND: OFFWH - CLR QTZ ANG FGR WSRT SUC SLI CALC NSFOC

SAND: OFFWH - CLR QTZ ANG FGR WSRT SUC SLI CALC NSFOC

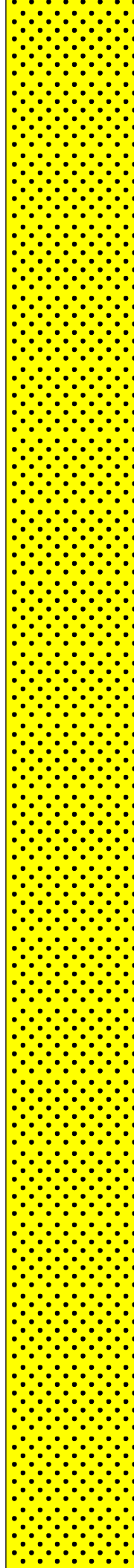
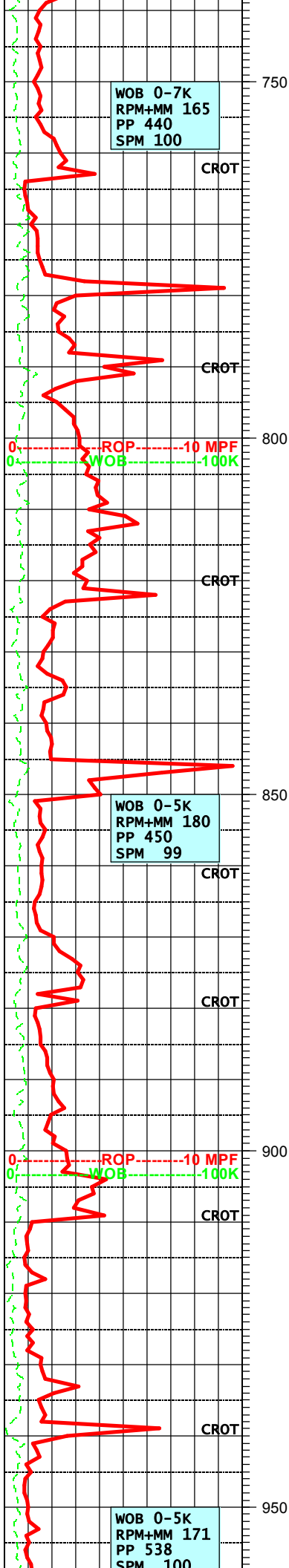
SAND: OFFWH - CLR QTZ ANG FGR WSRT SUC SLI CALC NSFOC

SAND: OFFWH - CLR QTZ ANG FGR WSRT SUC SLI CALC NSFOC



PUMP SWEEP

1/26/2008



SAND: OFFWH - CLR QTZ ANG FGR
WSRT SUC SLI CALC NSFOC

MWI 8.8
VIS 30
MWO 8.9
VIS 31

SAND: OFFWH - CLR QTZ ANG FGR
WSRT SUC SLI CALC NSFOC

PUMP
SWEEP

SANDSTONE: OFFWH - CLR QTZ ANG
FGR WSRT SUC SLI CALC NSFOC

GAS -200U
GAS -2%

SANDSTONE: OFFWH - CLR QTZ ANG
FGR WSRT SUC SLI CALC NSFOC

SANDSTONE: OFFWH - CLR QTZ ANG
FGR WSRT SUC SLI CALC NSFOC

SANDSTONE: OFFWH - CLR QTZ ANG
FGR WSRT SUC SLI CALC NSFOC

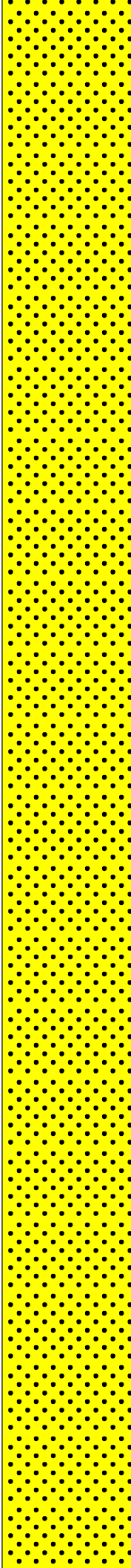
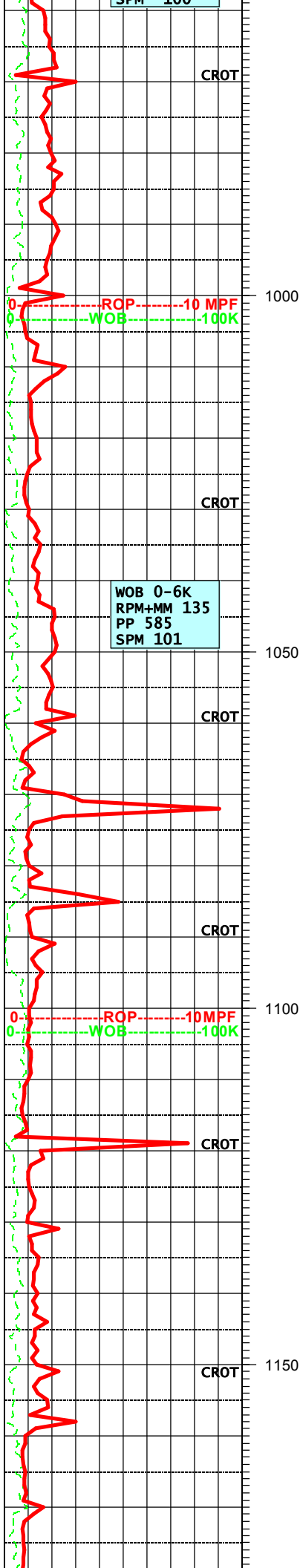
SANDSTONE: OFFWH - CLR QTZ ANG
FGR WSRT SUC SLI CALC NSFOC

GAS -200U
GAS -2%

SANDSTONE: OFFWH - CLR QTZ ANG
FGR WSRT SUC SLI CALC NSFOC

MWI 8.5
VIS 34
MWO 8.6
VIS 35

SANDSTONE: OFFWH - CLR QTZ ANG
FGR WSRT SUC SLI CALC NSFOC



SANDSTONE: OFFWH - CLR QTZ ANG
FGR WSRT SUC SLI CALC NSFOC

PUMP
SWEEP

SANDSTONE: OFFWH - CLR QTZ ANG
FGR WSRT SUC SLI CALC NSFOC

GAS -200U
GAS -2%

SANDSTONE: TN OFFWH -CLR QTZ
ANG VVF-M GR SUC MODSRT
P/CONSOL SLI MTRX SLI CALC NSFOC

SANDSTONE: TN OFFWH -CLR QTZ
ANG VVF-M GR SUC MODSRT
P/CONSOL SLI MTRX SLI CALC NSFOC

PUMP
SWEEP

SANDSTONE: TN OFFWH -CLR QTZ
ANG VVF-M GR SUC MODSRT
P/CONSOL SLI MTRX SLI CALC NSFOC

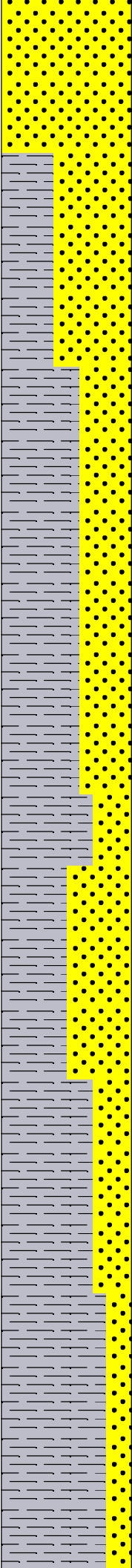
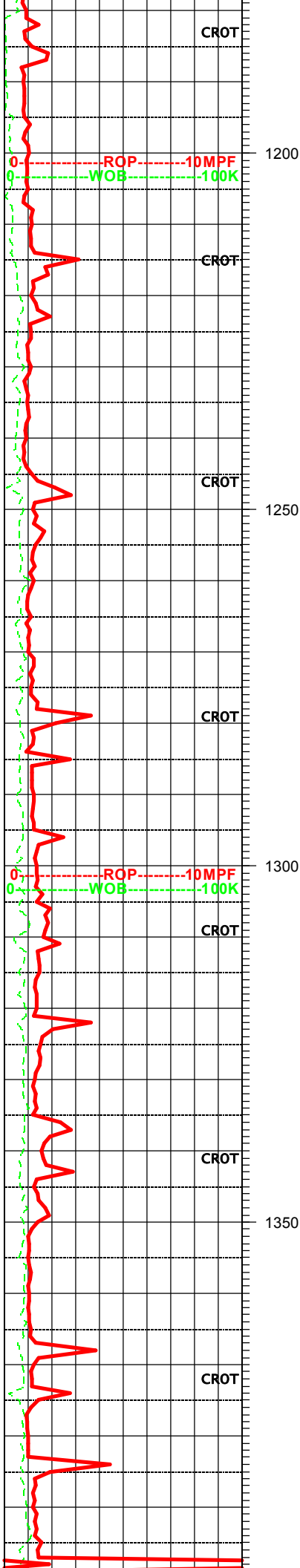
PUMP
SWEEP

SANDSTONE: TN OFFWH -CLR QTZ
ANG VVF-M GR SUC MODSRT
P/CONSOL SLI MTRX SLI CALC NSFOC

GAS -200U
GAS -2%

SANDSTONE: TN OFFWH -CLR QTZ
ANG VVF-M GR SUC MODSRT
P/CONSOL SLI MTRX SLI CALC NSFOC

SANDSTONE: TN OFFWH -CLR QTZ
ANG VVF-M GR SUC MODSRT
P/CONSOL SLI MTRX SLI CALC NSFOC



SANDSTONE: TN OFFWH -CLR QTZ
ANG VVF-M GR SUC MODSRT
P/CONSOL SLI MTRX SLI CALC NSFOC

SANDSTONE: CLR LT GRY VF-MD GR
LSE CONS IP W CALC CMT

SHALE: GRY RD OFF WHT SFT-MOD
FRM SLTY IP SM CLY-LIKE BENTONITE

SANDSTONE: CLR LT GRY VF-MD GR
LSE CONS IP W CALC CMT

SHALE: GRY RD OFF WHT SFT-MOD
FRM SLTY IP SM CLY-LIKE BENTONITE

SANDSTONE: CLR LT GRY VF-MD GR
LSE CONS IP W CALC CMT

SHALE: GRY RD OFF WHT SFT-MOD
FRM SLTY IP SM CLY-LIKE BENTONITE

SANDSTONE: CLR LT GRY VF-MD GR
LSE CONS IP W CALC CMT
SHALE: GRY RD OFF WHT SFT-MOD
FRM SLTY IP SM CLY-LIKE BENTONITE
SANDSTONE: CLR LT GRY VF-MD GR
LSE CONS IP W CALC CMT

SHALE: GRY RD OFF WHT SFT-MOD
FRM SLTY IP SM CLY-LIKE BENTONITE
SANDSTONE: CLR LT GRY VF-MD GR
LSE CONS IP W CALC CMT

SHALE: GRY RD OFF WHT SFT-MOD
FRM SLTY IP SM CLY-LIKE BENTONITE
SANDSTONE: CLR LT GRY VF-MD GR
LSE CONS IP W CALC CMT

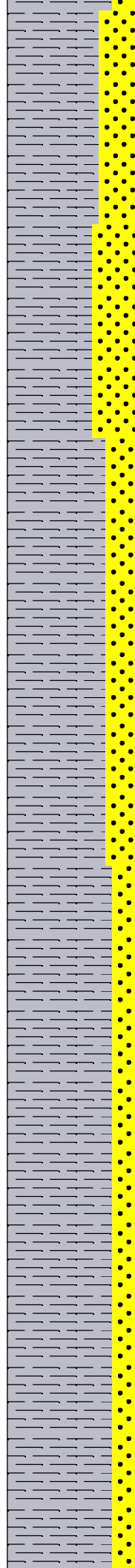
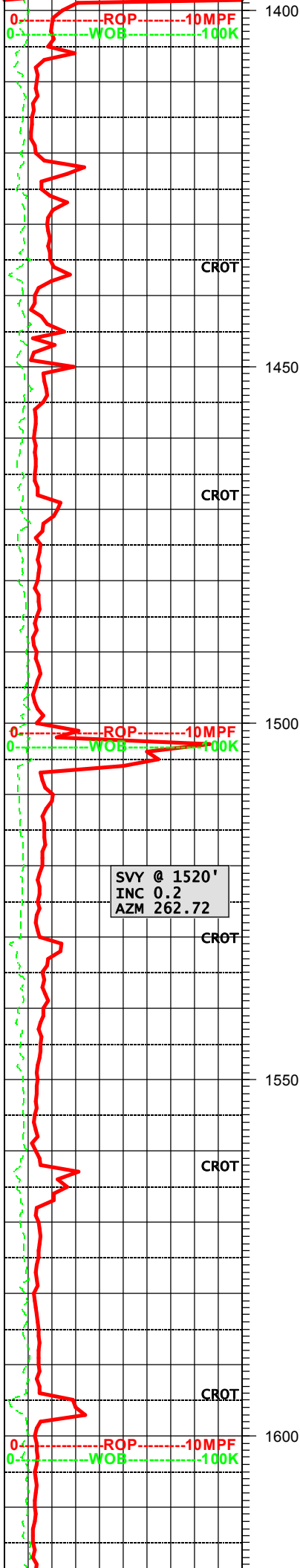
SHALE: GRY RD OFF WHT SFT-MOD
FRM SLTY IP SM CLY-LIKE BENTONITE
SANDSTONE: CLR LT GRY VF-MD GR
LSE CONS IP W CALC CMT

0-----GAS-----200u
0-----GAS-----2%

MWI	8.5
VIS	35
MWO	8.6
VIS	36

0-----GAS-----200U
0-----GAS-----2%

MWI	8.5
VIS	35
MWO	8.6
VIS	36



LSE CONS IP W CALC CMT

SHALE: GRY RD MOTT OFF-WHT SFT
MOD SFT FRM BLKY-PLTY SLTY IP
SANDSTONE: CLR DK GRY FN-MD GR
ANG-SBANG CALC TR PR

MWI 8.5
VIS 35
MWO 8.6
VIS 36

SHALE: GRY RD MOTT OFF-WHT SFT
MOD SFT FRM BLKY-PLTY SLTY IP
SANDSTONE: CLR DK GRY FN-MD GR
ANG-SBANG CALC TR PR

SHALE: GRY RD MOTT OFF-WHT SFT
MOD SFT FRM BLKY-PLTY SLTY IP
SANDSTONE: CLR DK GRY FN-MD GR
ANG-SBANG CALC TR PR

SHALE: GRY RD MOTT OFF-WHT SFT
MOD SFT FRM BLKY-PLTY SLTY IP
SANDSTONE: CLR DK GRY FN-MD GR
ANG-SBANG CALC TR PR

SHALE: GRY RD MOTT OFF-WHT SFT
MOD SFT FRM BLKY-PLTY SLTY IP
SANDSTONE: CLR DK GRY FN-MD GR
ANG-SBANG CALC TR PR

MWI 8.5
VIS 37
MWO 8.6
VIS 38

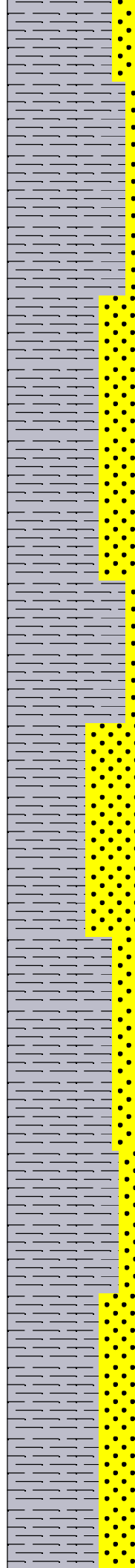
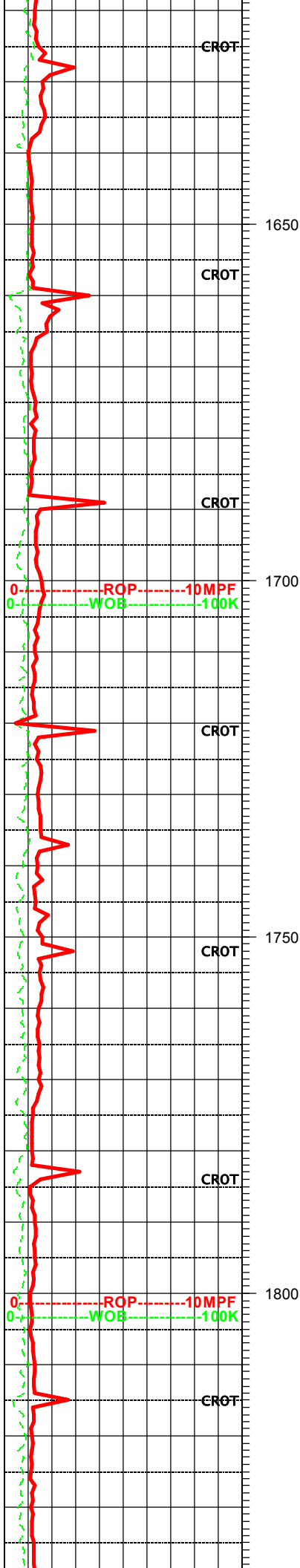
SHALE: GRY RD MOTT OFF-WHT SFT
MOD SFT FRM BLKY-PLTY SLTY IP
SANDSTONE: CLR DK GRY FN-MD GR
ANG-SBANG CALC TR PR

SHALE: GRY RD MOTT OFF-WHT SFT
MOD SFT FRM BLKY-PLTY SLTY IP
SANDSTONE: CLR DK GRY FN-MD GR
ANG-SBANG CALC TR PR

SHALE: GRY RD MOTT OFF-WHT SFT
MOD SFT FRM BLKY-PLTY SLTY IP
SANDSTONE: CLR DK GRY FN-MD GR
ANG-SBANG CALC TR PR

SHALE: GRY RD MOTT OFF-WHT SFT
MOD SFT FRM BLKY-PLTY SLTY IP
SANDSTONE: CLR DK GRY FN-MD GR
ANG-SBANG CALC TR PR

MWI 8.5
VIS 37
MWO 8.6
VIS 38



SHALE: GRY RD MOTT OFF-WHT SFT
MOD SFT FRM BLKY-PLTY SLTY IP
SANDSTONE: CLR DK GRY FN-MD GR
ANG-SBANG CALC TR PR

SHALE: GRY RD MOTT OFF-WHT SFT
MOD SFT FRM BLKY-PLTY SLTY IP
SANDSTONE: CLR DK GRY FN-MD GR
ANG-SBANG CALC TR PR

SHALE: GRY RD MOTT OFF-WHT SFT
MOD SFT FRM BLKY-PLTY SLTY IP
SANDSTONE: CLR DK GRY FN-MD GR

SHALE: GRY RD MOTT OFF-WHT SFT
MOD SFT FRM BLKY-PLTY SLTY IP
SANDSTONE: CLR DK GRY FN-MD GR
ANG-SBANG CALC TR PR

SHALE: GRY RD MOTT OFF-WHT SFT
MOD SFT FRM BLKY-PLTY SLTY IP
SANDSTONE: CLR DK GRY FN-MD GR
ANG-SBANG CALC TR PR

SHALE: GRY RD MOTT OFF-WHT SFT
MOD SFT FRM BLKY-PLTY SLTY IP
SANDSTONE: CLR DK GRY FN-MD GR
ANG-SBANG CALC TR PR

SHALE: GRY RD MOTT OFF-WHT SFT
MOD SFT FRM BLKY-PLTY SLTY IP
SANDSTONE: CLR DK GRY FN-MD GR

SHALE: RD GRY V-SFT -FRM BLK PLTY
SLTY IP CLY LIKK BENTONITE
SANDSTONE: CLR OFF-WHT VF-FN GR
CONS W CALC CMT TR PYR

SHALE: RD GRY V-SFT -FRM BLK PLTY
SLTY IP CLY LIKK BENTONITE

SANDSTONE: CLR OFF-WHT VF-FN

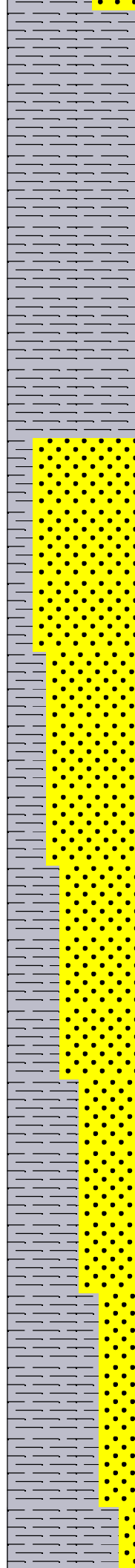
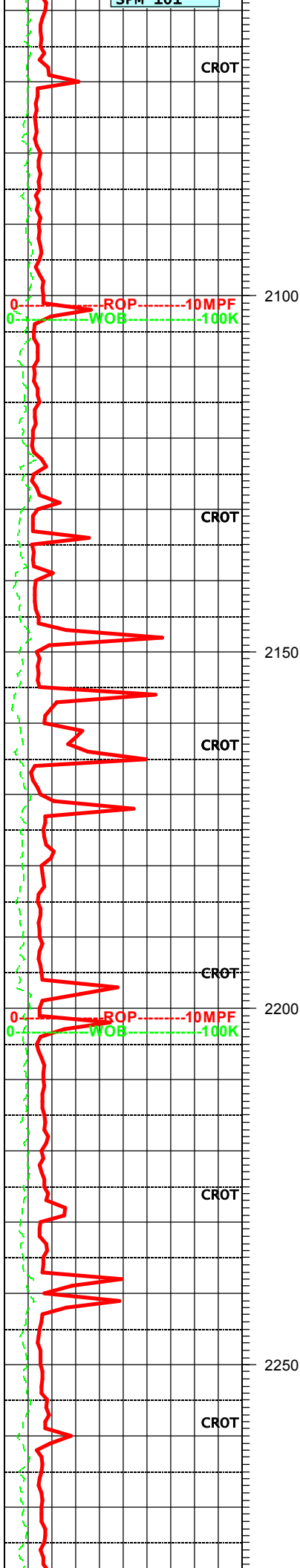
MWI 8.5
VIS 35
MWO 8.6
VIS 36

GAS 200U
GAS 2%

66u

MWI 8.5
VIS 35
MWO 8.6
VIS 36

GAS 200U
GAS 2%



SHALE: GY DK BRN RD SFT- MOD FRM
FRM BLKY PLTY FRIA SLTY IP TR
SANDSTONE

1/27/2008

PUMP
SWEEP

SHALE: GY DK BRN RD SFT- MOD FRM
FRM BLKY PLTY FRIA SLTY IP TR
SANDSTONE

SHALE: GY DK BRN RD SFT- MOD FRM
FRM BLKY PLTY FRIA SLTY IP TR
SANDSTONE
CLR OFFWH LTGRY VF-F GR SBANG-
ANG SUC P/CONSOL SLI CALC NSFOC

0-----GAS-----200u
0-----GAS-----2%
0-----CO2-----5%

SAND: OFFWH LTGRY VF-F GR
SBANG-ANG SUC P/CONSOL SLI CALC
NSFOC

PUMP
SWEEP

SAND: LTGRY VF-F GR SBANG-ANG
SUC P/CONSOL SLI CALC NSFOC
SHALE: GRY RDBN BLKY PLTY ARG
SM IP SILTY IP NCALC

PUMP
SWEEP

SAND: LTGRY VF-F GR SBANG-ANG
SUC P/CONSOL SLI CALC NSFOC
SHALE: GRY RDBN BLKY PLTY ARG
SM IP SILTY IP NCALC

SAND: LTGRY VF-F GR SBANG-ANG
SUC P/CONSOL SLI CALC NSFOC
SHALE: GRY RDBN BLKY PLTY ARG
SM IP SILTY IP NCALC

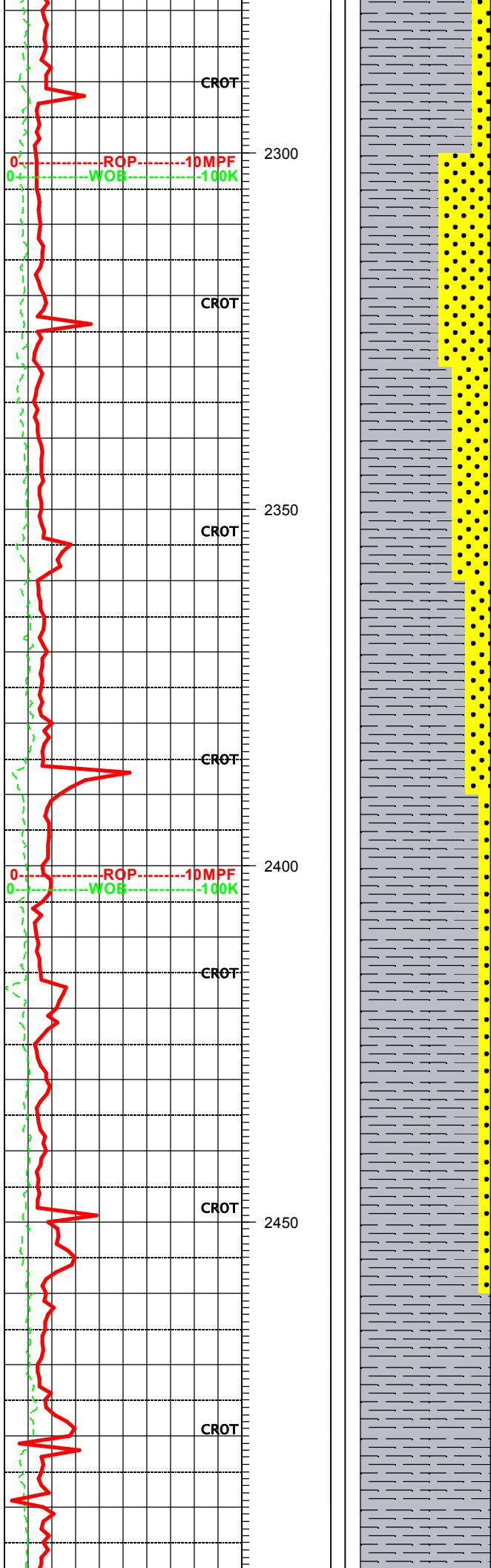
0-----GAS-----200u
0-----GAS-----2%
0-----CO2-----5%

SHALE: GRY RDBN BLKY PLTY ARG
SM IP SILTY IP NCALC
SANDSTONE: LTGRY VF-F GR SBANG-
ANG SUC P/CONSOL SLI CALC NSFOC

PUMP
SWEEP

SHALE: GRY RDBN BLKY PLTY ARG
SM IP SILTY IP NCALC
SANDSTONE: LTGRY VF-F GR SBANG-
ANG SUC P/CONSOL SLI CALC NSFOC

SHALE: GRY RDBN BLKY PLTY ARG
SM IP SILTY IP NCALC
SANDSTONE: LTGRY VF-F GR SBANG-
ANG SUC P/CONSOL SLI CALC NSFOC



ANG SUC P/CONSOL SLI CALC NSFOC

SHALE: RDBN GRY BLKY PLTY ARG
SM IP SILTY IP NCALC
SANDSTONE: LTGRY VF-F GR SBANG-
ANG SUC P/CONSOL SLI CALC NSFOC

GAS -200u
GAS -2%
CO2 -5%

SHALE: RDBN GRY BLKY PLTY ARG
SM IP SILTY IP NCALC
SANDSTONE: LTGRY VF-F GR SBANG-
ANG SUC P/CONSOL SLI CALC NSFOC

MWI 8.5
VIS 37
MWO 8.7
VIS 37

SHALE: RDBN GRY BLKY PLTY ARG
SM IP SILTY IP NCALC
SANDSTONE: LTGRY VF-F GR SBANG-
ANG SUC P/CONSOL SLI CALC NSFOC

SHALE: RDBN GRY BLKY PLTY ARG
SILTY IP NCALC
SANDSTONE: LTGRY VF-F GR LSE GR
SBANG-ANG SUC SLI CALC NSFOC

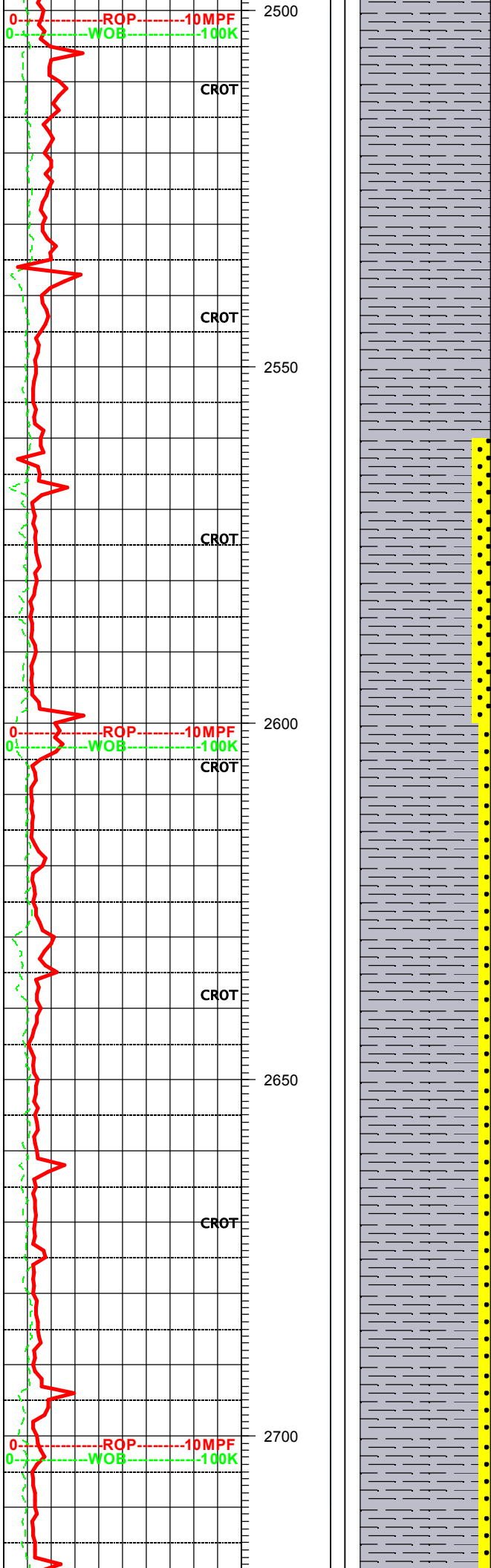
SHALE: GRY RD MOTT OFF-WHT SFT
MOD SFT FRM BLKY-PLTY SLTY IP
SANDSTONE: CLR DK GRY FN-MD GR
ANG-SBANG CALC TR PR

GAS -200u
GAS -2%

SHALE: GRY RD MOTT OFF-WHT SFT
MOD SFT FRM BLKY-PLTY SLTY IP
SANDSTONE: CLR DK GRY FN-MD GR
ANG-SBANG CALC TR PR

FID GAS/CO2 DETECTOR
AND BACK UP SLIC 7
MALFUNCTION NO
GAS READINGS FROM
2400' TO 3100'

SHALE: GRY RD MOTT OFF-WHT SFT
MOD SFT FRM BLKY-PLTY SLTY IP



SHALE: RD GRY BRN SFT-MOD FRM
FRM IP SLTY BLKY -PLTY

SHALE: RD GRY BRN SFT-MOD FRM
FRM IP SLTY BLKY -PLTY

SHALE: RD GRY BRN SFT-MOD FRM
FRM IP SLTY BLKY -PLTY

SANDSTONE: OFF-WHT GRY CLR V-FN
GR SBBRND-SBANG CALC

SHALE: RD GRY BRN SFT-MOD FRM
FRM IP SLTY BLKY -PLTY

SANDSTONE: OFF-WHT GRY CLR V-FN
GR SBBRND-SBANG CALC

SHALE: RD GRY BRN SFT-MOD FRM
FRM IP SLTY BLKY -PLTY

SANDSTONE: OFF-WHT GRY CLR V-FN
GR SBBRND-SBANG CALC

SHALE: RD GRY BRN SFT-MOD FRM
FRM IP SLTY BLKY -PLTY

SANDSTONE: OFF-WHT GRY CLR V-FN
GR SBBRND-SBANG CALC

SHALE: RD GRY BRN SFT-MOD FRM
FRM IP SLTY BLKY -PLTY

SANDSTONE: OFF-WHT GRY CLR V-FN
GR SBBRND-SBANG CALC

0-~~ROP~~-10MPF
0-~~WOB~~-100K

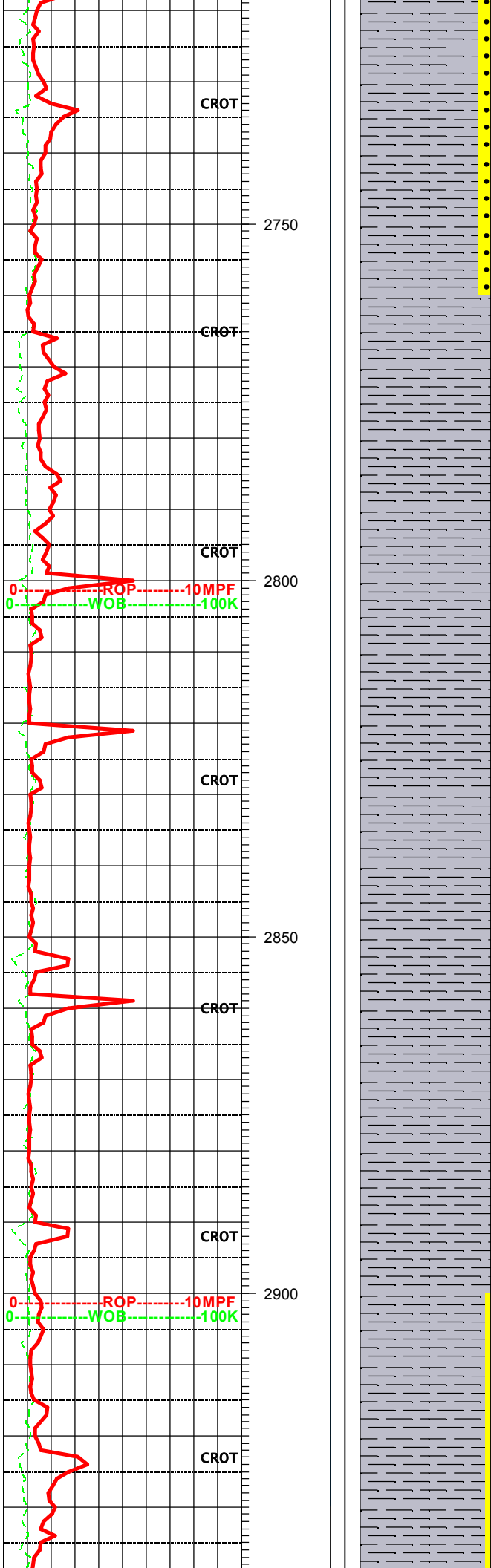
0-~~GAS~~-200u
0-~~GAS~~-2%

0-~~ROP~~-10MPF
0-~~WOB~~-100K

0-~~GAS~~-200u
0-~~GAS~~-2%

0-~~ROP~~-10MPF
0-~~WOB~~-100K

0-~~GAS~~-200u
0-~~GAS~~-2%



SHALE: RD GRY BRN SFT-MOD FRM
FRM IP SLTY BLKY -PLTY

SANDSTONE: OFF-WHT GRY CLR V-FN
GR SBRRND-SBANG CALC

SHALE: RD GRY BRN SFT-MOD FRM
FRM IP SLTY BLKY -PLTY V-SFT CLY
LIKE BENTONITE INCREASING
APPROX 30%

SHALE: RD GRY BRN SFT-MOD FRM
FRM IP SLTY BLKY -PLTY V-SFT CLY
LIKE BENTONITE INCREASING
APPROX 30%

SHALE: RD GRY BRN SFT-MOD FRM
FRM IP SLTY BLKY -PLTY V-SFT CLY
LIKE BENTONITE INCREASING
APPROX 30%

SHALE: RD GRY BRN SFT-MOD FRM
FRM IP SLTY BLKY -PLTY V-SFT CLY
LIKE BENTONITE INCREASING
APPROX 30%

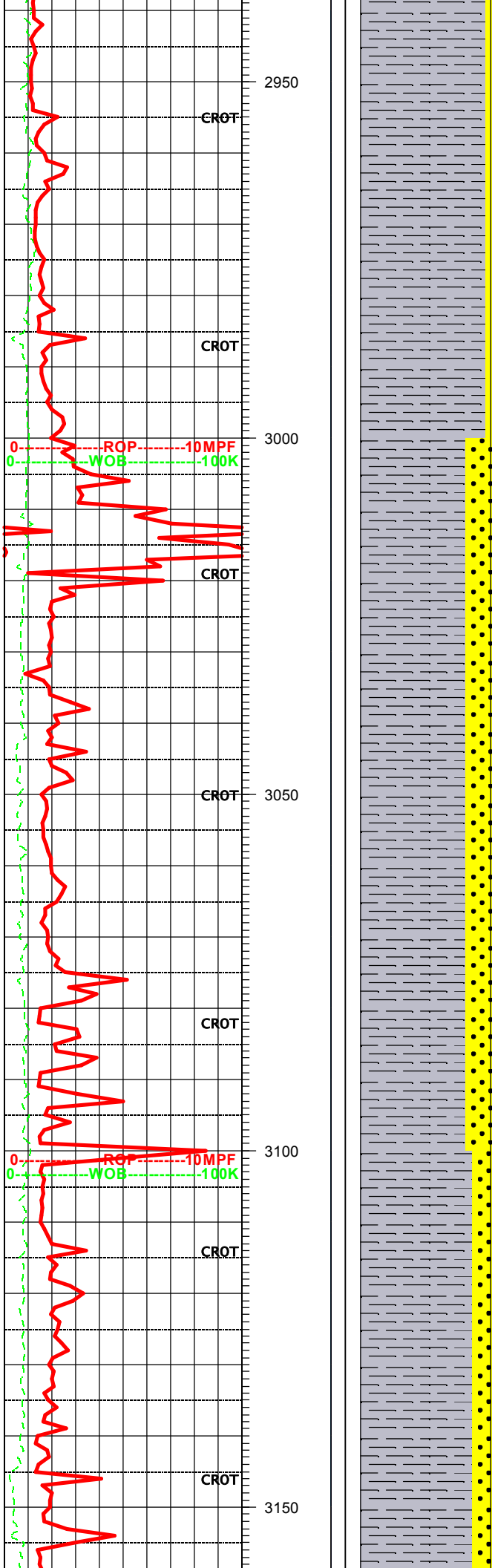
SHALE: YEL GRY RD BRN MOTT YEL-
GRY SLTY BLKY PLTY SLTY IP V-SFT-
FRM CLY BENTONITE APPROX30-40%

SANDSTONE: CLR LT GRY OFF-WHT
VF-FN GR SBRRND RND CALC TR PYR

SHALE: YEL GRY RD BRN MOTT YEL-
GRY SLTY BLKY PLTY SLTY IP V-SFT-
FRM CLY BENTONITE APPROX30-40%

0-----GAS-----200u
0-----GAS-----2%

0-----GAS-----200u
0-----GAS-----2%



SANDSTONE: CLR LT GRY OFF-WHT
VF-FN GR SBRRND RND CALC TR PYR

MWI 9.0
VIS 41
MWO 9.0
VIS 41

SHALE: YEL GRY RD BRN MOTT YEL-
GRY SLTY BLKY PLTY SLTY IP V-SFT-
FRM CLY BENTONITE APPROX30-40%

SANDSTONE: CLR LT GRY OFF-WHT
VF-FN GR SBRRND RND CALC TR PYR

PUMP
SWEEP

SHALE: YEL GRY RD BRN MOTT YEL-
GRY SLTY BLKY PLTY SLTY IP V-SFT-
FRM CLY BENTONITE APPROX30-40%

SANDSTONE: CLR LT GRY OFF-WHT
VF-FN GR SBRRND RND CALC TR PYR

GAS 200u
GAS -2%

SHALE: YEL GRY RD BRN MOTT YEL-
GRY SLTY BLKY PLTY SLTY IP V-SFT-
FRM CLY BENTONITE APPROX30-40%

SANDSTONE: CLR LT GRY OFF-WHT
VF-FN GR SBRRND RND CALC TR PYR

SHALE: YEL GRY RD BRN MOTT YEL-
GRY SLTY BLKY PLTY SLTY IP V-SFT-
FRM CLY BENTONITE APPROX 30-
40%

SANDSTONE: CLR LT GRY OFF-WHT
VF-FN GR SBRRND RND CALC TR PYR

SHALE: YEL TAN BRN RD GRY MOTT
SLTY WXY PLTY -BLKYV-SFT FRM CLY
LIKE BENTONITE 40% MOD FRM TO
FRM

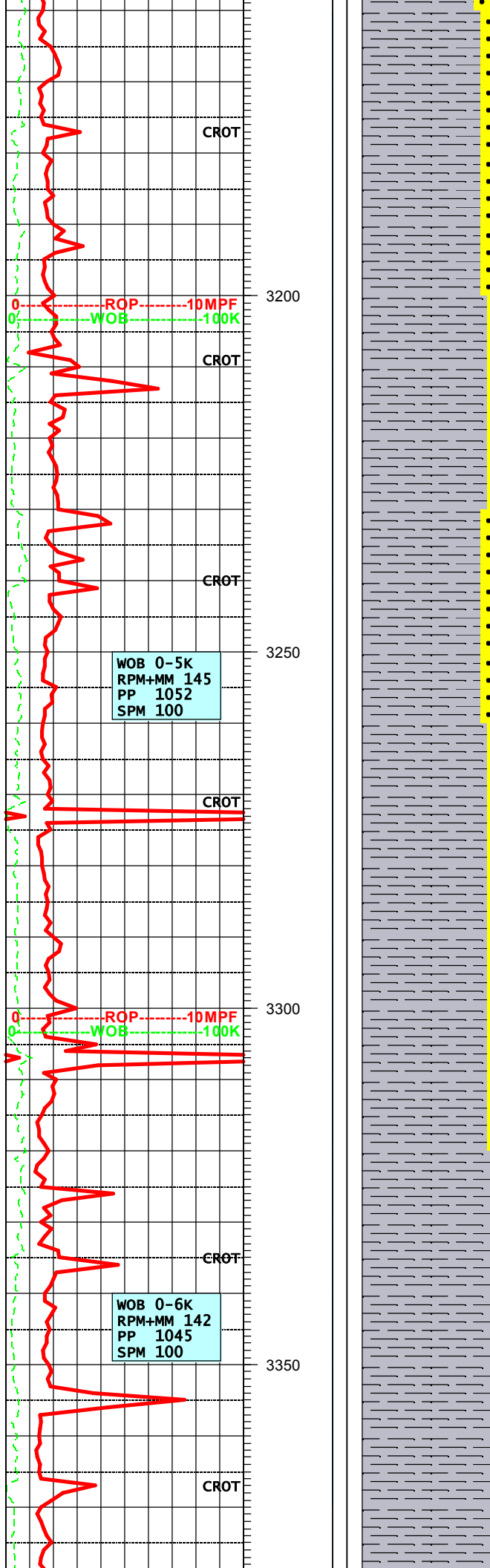
SHALE: YEL TAN BRN RD GRY MOTT
SLTY WXY PLTY -BLKYV-SFT FRM CLY
LIKE BENTONITE 40% MOD FRM TO
FRM

SANDSTONE: LT GRY OFF-WHT VF-FN
GR W-SRT W-CONSL W / CALC CMT
TR PYR

SHALE: YEL TAN BRN RD GRY MOTT
SLTY WXY PLTY -BLKYV-SFT FRM CLY
LIKE BENTONITE 40% MOD FRM TO
FRM

SANDSTONE: LT GRY OFF-WHT VF-FN
GR W-SRT W-CONSL W / CALC CMT
TR PYR

GAS 200u
GAS -2%



SHALE: YEL TAN BRN RD GRY MOTT
SLTY WXY PLTY -BLKYV-SFT FRM CLY
LIKE BENTONITE 40% MOD FRM TO
FRM

SANDSTONE: LT GRY OFF-WHT VF-FN
GR W-SRT W-CONSL W / CALC CMT
TR PYR

SHALE: VARIC YEL TAN BRN RD GRY
MOTT SLTY WXY PLTY -BLKYV-SFT
FRM CLY LIKE BENTONITE 40% MOD
FRM TO FRM

SANDSTONE: LT GRY OFF-WHT VF-FN
GR W-SRT W-CONSL W / CALC CMT
TR PYR

SHALE: VARIC YEL TAN BRN RD GRY
MOTT SLTY WXY PLTY -BLKYV-SFT
FRM CLY LIKE BENTONITE 40% MOD
FRM TO FRM

SANDSTONE: LT GRY OFF-WHT VF-FN
GR W-SRT W-CONSL W / CALC CMT
TR PYR

SHALE: VARIC YEL TAN BRN RD GRY
MOTT SLTY WXY PLTY -BLKYV-SFT
FRM CLY LIKE BENTONITE 40% MOD
FRM TO FRM

SANDSTONE: LT GRY OFF-WHT VF-FN
GR W-SRT W-CONSL W / CALC CMT
TR PYR

SHALE: VARIC YEL TAN BRN RD GRY
MOTT SLTY WXY PLTY -BLKYV-SFT
FRM CLY LIKE BENTONITE 40% MOD
FRM TO FRM

SHALE: VARIC YEL TAN BRN RD GRY
MOTT SLTY WXY PLTY -BLKYV-SFT
FRM CLY LIKE BENTONITE 40% MOD
FRM TO FRM

SANDSTONE: LT GRY OFF-WHT VF-FN
GR W-SRT W-CONSL W / CALC CMT
TR PYR

SHALE: VARIC YEL TAN BRN RD GRY
MOTT SLTY WXY PLTY -BLKYV-SFT
FRM CLY LIKE BENTONITE 40% MOD
FRM TO FRM TR SANDSTONE

SHALE: VARIC YEL TAN BRN RD GRY
MOTT SLTY WXY PLTY -BLKYV-SFT
FRM CLY LIKE BENTONITE 40% MOD
FRM TO FRM TR SANDSTONE

0-200u
0-2%
GAS
GAS

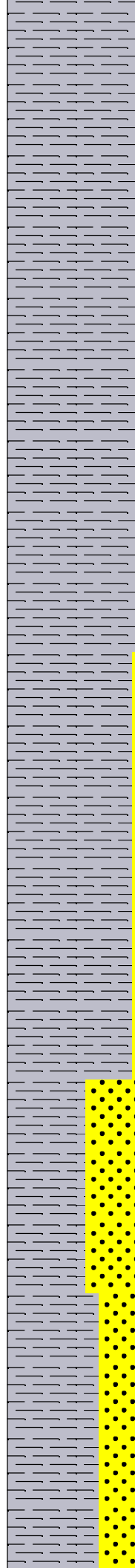
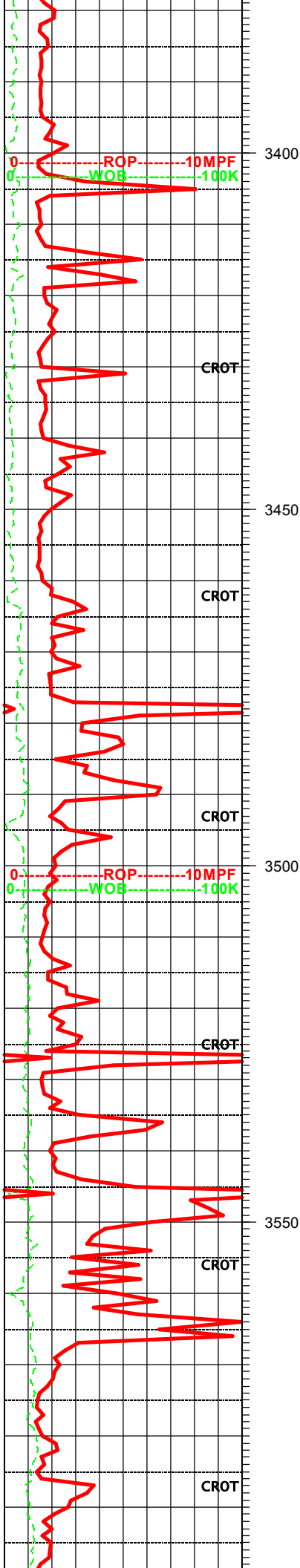
1/28/2008

PUMP
SWEEP

MWI 8.9
VIS 40
MWO 8.9
VIS 41

PUMP
SWEEP

0-200u
0-2%
GAS
GAS



SHALE: VARIC YEL TAN BRN RD GRY
MOTT SLTY WXY PLTY -BLKYV-SFT
FRM CLY LIKE BENTONITE 40% MOD
FRM TO FRM TR SANDSTONE

SHALE: VARIC YEL TAN BRN RD GRY
MOTT SLTY WXY PLTY -BLKYV-SFT
FRM CLY LIKE BENTONITE 40% MOD
FRM TO FRM TR SANDSTONE

SHALE: VARIC YEL TAN BRN RD GRY
MOTT SLTY WXY PLTY -BLKYV-SFT
FRM CLY LIKE BENTONITE 40% MOD
FRM TO FRM TR SANDSTONE

SHALE: VARIC YEL TAN BRN RD GRY
MOTT SLTY WXY PLTY -BLKYV-SFT
FRM CLY LIKE BENTONITE 40% MOD
FRM TO FRM TR SANDSTONE

SHALE: VARIC YEL TAN BRN RD GRY
MOTT SLTY WXY PLTY -BLKYV-SFT
FRM CLY LIKE BENTONITE 40% MOD
FRM TO FRM

SANDSTONE: LT GRY OFF-WHT S&P
VF-FN GR ANG-SBANG W-SRT W-
CONSL W / CALC CMT NSFOC

SHALE: YEL-TN GRY RD MOTT SLTY
WXY SFT -MOD FRM HD PLTY-BLKY
SANDSTONE:VF-FN GR W-SRT W-
CONS CALC CMT IP

SHALE: YEL-TN GRY RD MOTT SLTY
WXY SFT -MOD FRM HD PLTY-BLKY
SANDSTONE:VF-FN GR W-SRT W-
CONS CALC CMT IP

SHALE: YEL-TN GRY RD MOTT SLTY
WXY SFT -MOD FRM HD PLTY-BLKY
SANDSTONE:VF-FN GR W-SRT W-
CONS CALC CMT IP

SHALE: YEL-TN GRY RD MOTT SLTY
WXY SFT -MOD FRM HD PLTY-BLKY
SANDSTONE:VF-FN GR W-SRT W-
CONS CALC CMT IP

0- -GAS- -200u
0- -GAS- -2%
0- -CO2- -5%

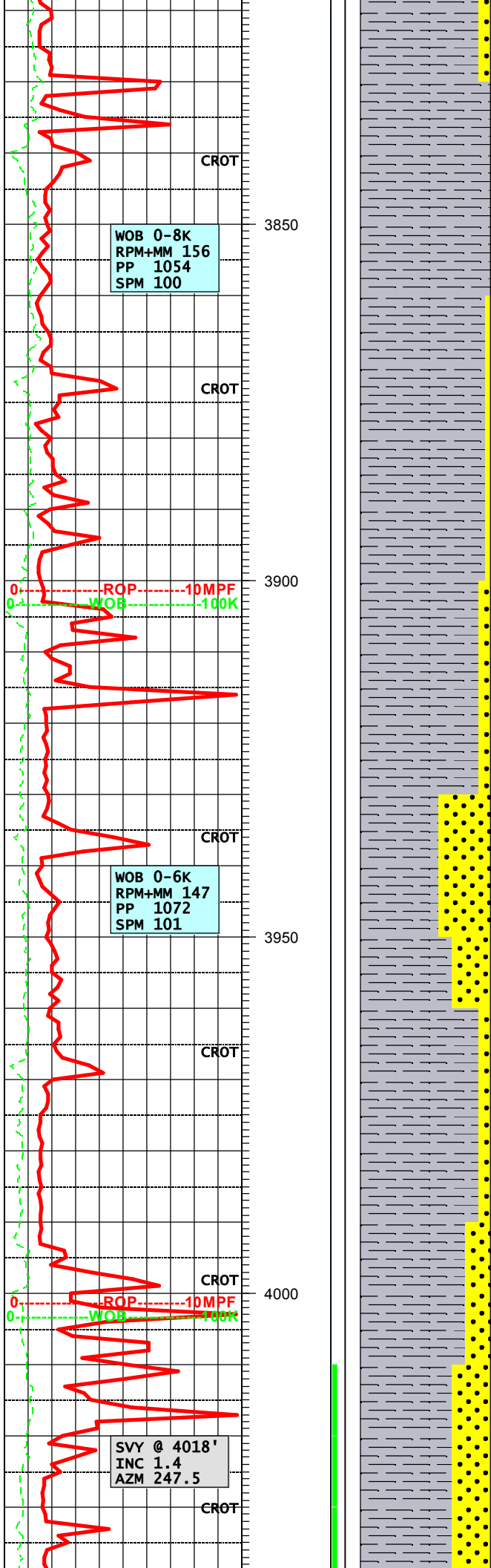
PUMP
SWEEP

PUMP
SWEEP

0- -GAS- -200u
0- -GAS- -2%
0- -CO2- -5%

PUMP
SWEEP

SAMPLE
DEPTH
3586 FT
WT 9.1
VIS 41
YP 11
CK 1/
SOL 5.7
PH 8.8
CHL 18000
CA 200



SHALE: GRY YELL TAN RD-GY MOTT
WXY SMO PLTY SLTY IP SFT-FRM

PUMP
SWEEP

MWI 9.1
VIS 41
MWO 9.1
VIS 39

SHALE: GRY YELL TAN RD-GY MOTT
WXY SMO PLTY SLTY IP SFT-FRM

SANDSTONE: CLR TN OFF-WHT LT
GRY FN-MD GR ANG-SBANG
CALC CMT IP W- SRT W-CONLS TR
PYR

SHALE: GRY YELL TAN RD-GY MOTT
WXY SMO PLTY SLTY IP SFT-FRM

SANDSTONE: CLR TN OFF-WHT LT
GRY FN-MD GR ANG-SBANG
CALC CMT IP W- SRT W-CONLS TR
PYR

SHALE: GRY YELL TAN RD-GY MOTT
WXY SMO PLTY SLTY IP SFT-FRM

SANDSTONE: CLR TN OFF-WHT LT
GRY FN-MD GR ANG-SBANG
CALC CMT IP W- SRT W-CONLS TR
PYR

GAS 2000u
GAS 20%
CO2 5%

SHALE: RED BRN GRY YELL TAN RD-
GY MOTT WXY SMO PLTY SLTY IP
SFT-FRM

SANDSTONE: CLR TN OFF-WHT LT
GRY FN-MD GR ANG-SBANG
CALC CMT IP W- SRT W-CONLS TR
PYR

SHOW #5

172u

SHALE: RED BRN GRY YELL TAN RD-
GY MOTT WXY SMO PLTY SLTY IP
SFT-FRM

SANDSTONE: CLR TN OFF-WHT LT
GRY FN-MD GR ANG-SBANG
CALC CMT IP W- SRT W-CONLS TR
PYR

MWI 9.1
VIS 40
MWO 9.0
VIS 41

SHALE: RED BRN GRY YELL TAN RD-
GY MOTT WXY SMO PLTY SLTY IP
SFT-FRM

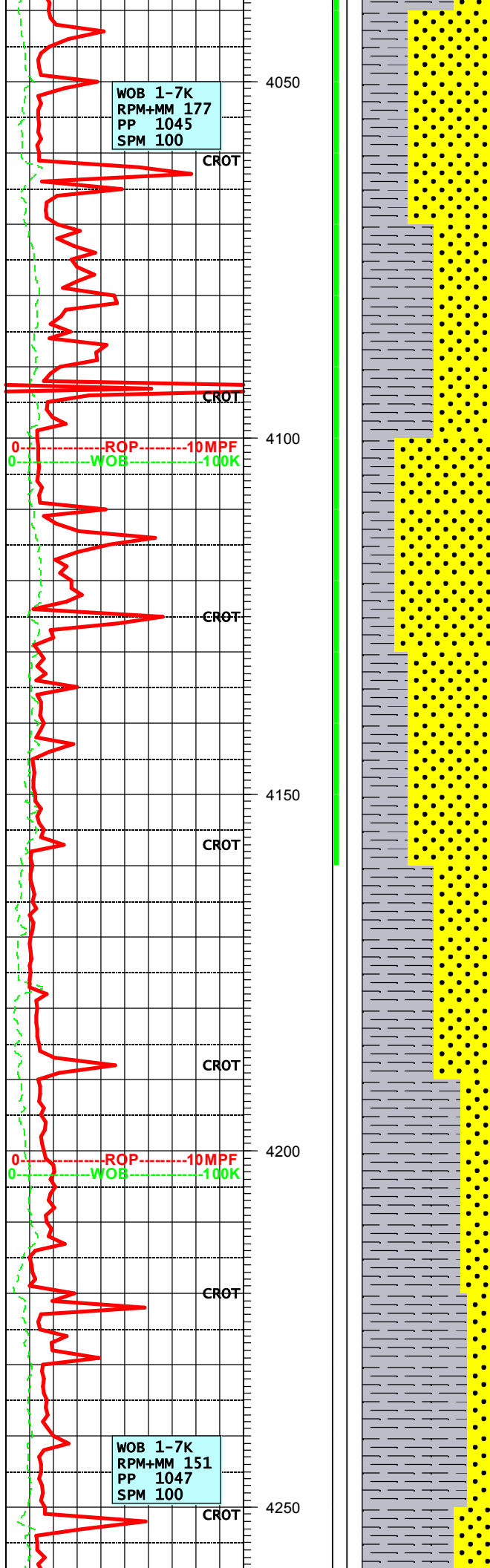
GAS 2000u
GAS 20%
CO2 5%

SHOW #6

318u

SHALE: RED BRN GRY YELL TAN RD-
GY MOTT WXY SMO PLTY SLTY IP
SFT-FRM

SANDSTONE: OFF-WHT LT GRY S&P
VFN-CRS GR ANG-SBANG CALC CMT
IP MOD-W/ SRT MOD-W CONLS F-GD
INTRGR POR NSFOC



SANDSTONE: OFF-WHT LT GRY S&P
VFN-CRS GR ANG-SBANG CALC CMT
IP MOD-W/ SRT MOD-W CONLS F-GD
INTRGR POR NSFOC

SHALE: RED BRN GRY YELL TAN RD-
GY MOTT WXY SMO BLKY-PLTY SLTY
IP SFT-FRM

MWI 8.9
VIS 41
MWO 9.0
VIS 41

SHALE: RED BRN GRY YELL TAN RD-
GY MOTT WXY SMO PLTY SLTY IP
SFT-FRM

PUMP
SWEEP

SANDSTONE: OFF-WHT LT GRY S&P
VFN-CRS GR ANG-SBANG CALC CMT
IP MOD-W/ SRT MOD-W CONLS F-GD
INTRGR POR NSFOC

SANDSTONE: OFF-WHT LT GRY S&P
VFN-CRS ABDNT TRNSL QTZ GRNS
ANG-SBANG CALC CMT IP MOD-W/
SRT MOD-W CONLS F-GD INTRGR
POR IP NSFOC

GAS 2000u
GAS 20%
CO2 5%

SHOW #7

SHALE: RED BRN GRY YELL TAN RD-
GY MOTT WXY SMO BLKY-PLTY SLTY
IP SFT-FRM

686u

SANDSTONE: OFF-WHT LT GRY S&P
VFN-CRS ABDNT TRNSL QTZ GRNS
ANG-SBANG CALC CMT IP MOD-W/
SRT MOD-W CONLS F-GD INTRGR
POR IP NSFOC

MWI 8.8
VIS 42
MWO 8.9
VIS 41

1/29/2008

SHALE: RED BRN GRY YELL TAN RD-
GY MOTT WXY SMO BLKY-PLTY SLTY
IP SFT-FRM

SANDSTONE: OFF-WHT LT GRY S&P
VFN-CRS ABDNT TRNSL QTZ GRNS
ANG-SBANG CALC CMT IP MOD-W/
SRT MOD-W CONLS F-GD INTRGR
POR IP NSFOC

SHALE: RED BRN GRY YELL TAN RD-
GY MOTT WXY SMO BLKY-PLTY SLTY
IP SFT-FRM

GAS 2000u
GAS 20%
CO2 5%

SHALE: RED BRN GRY YELL TAN RD-
GY MOTT WXY SMO BLKY-PLTY SLTY
IP SFT-FRM
SANDSTONE: OFF-WHT LT GRY S&P
VFN-CRS ABDNT TRNSL QTZ GRNS
ANG-SBANG CALC CMT IP MOD-W/
SRT MOD-W CONLS F-GD INTRGR
POR IP NSFOC

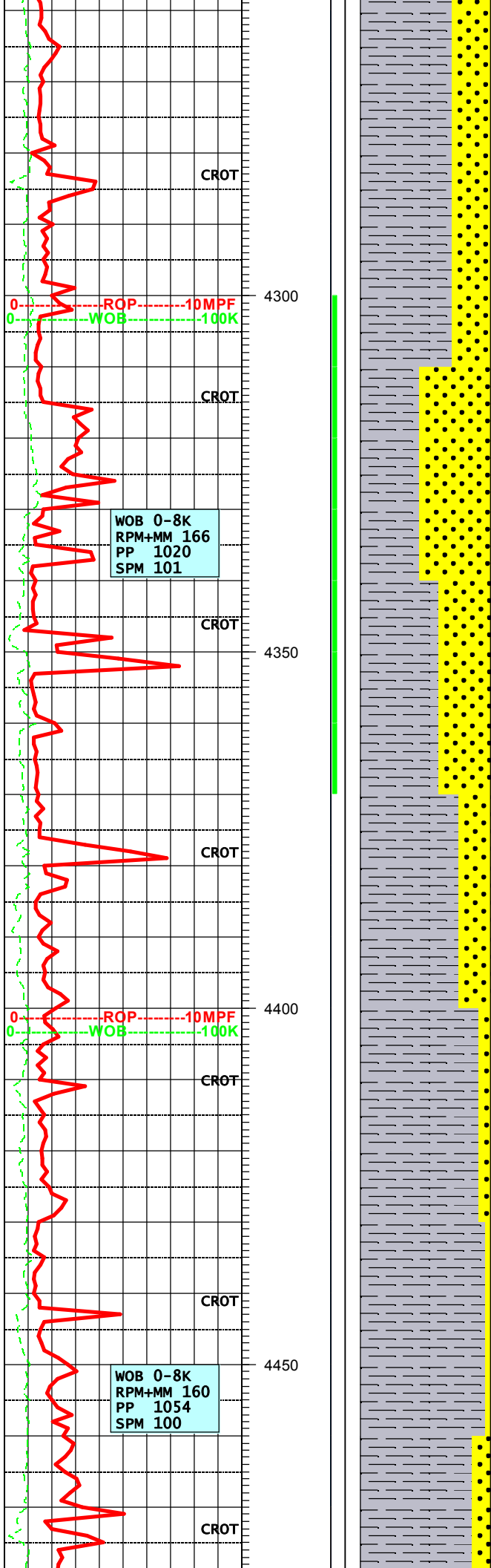
PUMP
SWEEP

SHALE: RED BRN GRY YELL TAN RD-
GY MOTT WXY SMO BLKY-PLTY SLTY
IP SFT-FRM

SANDSTONE: OFF-WHT LT GRY S&P
VFN-CRS ABDNT TRNSL QTZ GRNS
ANG-SBANG CALC CMT IP MOD-W/
SRT MOD-W CONLS F-GD INTRGR
POR IP NSFOC

MWI 8.9
VIS 40
MWO 9.0
VIS 41

SHALE: RED BRN GRY YELL TAN RD-
GY MOTT WXY SMO BLKY-PLTY SLTY
IP SFT-FRM



SANDSTONE: OFF-WHT LT GRY S&P
VFN-CRS ABDNT TRNSL QTZ GRNS
ANG-SBANG CALC CMT IP MOD-W/
SRT MOD-W CONLS F-GD INTRGR
POR IP NSFOC

SHALE: RED BRN GRY YELL TAN RD-
GY MOTT WXY SMO BLKY-PLTY SLTY
IP SFT-FRM
SANDSTONE: OFF-WHT LT GRY S&P
VFN-CRS ABDNT TRNSL QTZ GRNS
ANG-SBANG CALC CMT IP MOD-W/
SRT MOD-W CONLS F-GD INTRGR
POR IP NSFOC

SHALE: RED BRN GRY YELL TAN RD-
GY MOTT WXY SMO BLKY-PLTY SLTY
IP SFT-FRM

SANDSTONE: OFF-WHT LT GRY S&P
VFN-CRS ABDNT TRNSL QTZ GRNS
ANG-SBANG CALC CMT IP MOD-W/
SRT MOD-W CONLS F-GD INTRGR
POR IP NSFOC
SHALE: RED BRN GRY YELL TAN RD-
GY MOTT WXY SMO BLKY-PLTY SLTY
IP SFT-FRM

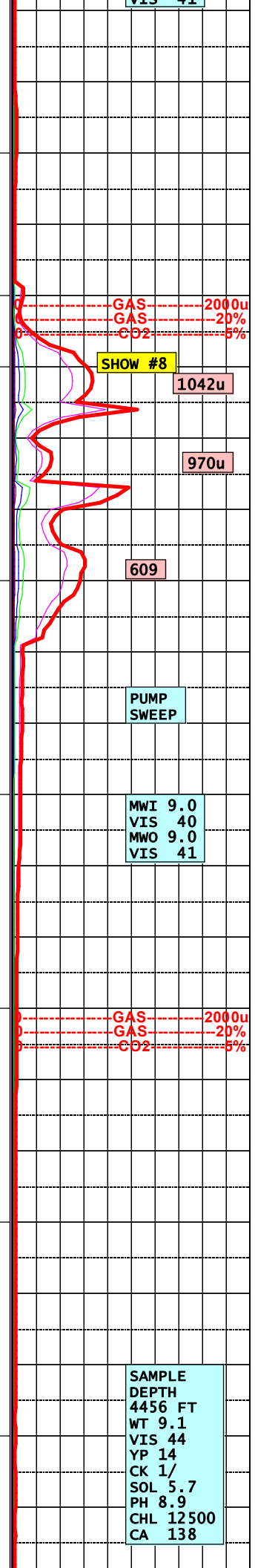
SHALE: RED BRN GRY YELL TAN RD-
GY MOTT WXY SMO BLKY-PLTY SLTY
IP SFT-FRM
SANDSTONE: OFF-WHT LT GRY S&P
VFN-CRS ABDNT TRNSL QTZ GRNS
ANG-SBANG CALC CMT IP MOD-W/
SRT MOD-W CONLS F-GD INTRGR
POR IP NSFOC

SHALE: RED BRN GRY YELL TAN RD-
GY MOTT WXY SMO BLKY-PLTY SLTY
IP SFT-FRM
SANDSTONE: OFF-WHT LT GRY S&P
VFN-CRS TRNSL QTZ GRNS ANG-
SBANG CALC CMT IP MOD-W/ SRT
MOD-W CONLS F-GD INTRGR POR IP
NSFOC

SHALE: RED BRN GRY YELL TAN RD-
GY MOTT WXY SMO BLKY-PLTY SLTY
IP SFT-FRM
SANDSTONE: OFF-WHT LT GRY S&P
VFN-CRS TRNSL QTZ GRNS ANG-
SBANG CALC CMT IP MOD-W/ SRT
MOD-W CONLS NSFOC

SHALE: RED BRN GRY YELL TAN RD-
GY MOTT WXY SMO BLKY-PLTY SLTY
IP SFT-FRM
SANDSTONE: OFF-WHT LT GRY S&P
VFN-CRS TRNSL QTZ GRNS ANG-
SBANG CALC CMT IP MOD-W/ SRT
MOD-W CONLS NSFOC

SHALE: GRY YELL TAN YELBRN MOTT
WXY SMO BLKY-PLTY SLTY IP SFT-
FRM
SANDSTONE: OFF-WHT GRY S&P GN
VFN-CRS TRNSL QTZ GRNS ANG-
SBANG CALC CMT IP MOD-W/ SRT
MOD-W CONLS NSFOC



SHOW #8

1042u

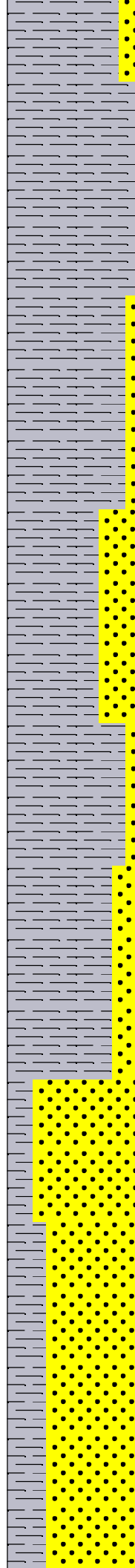
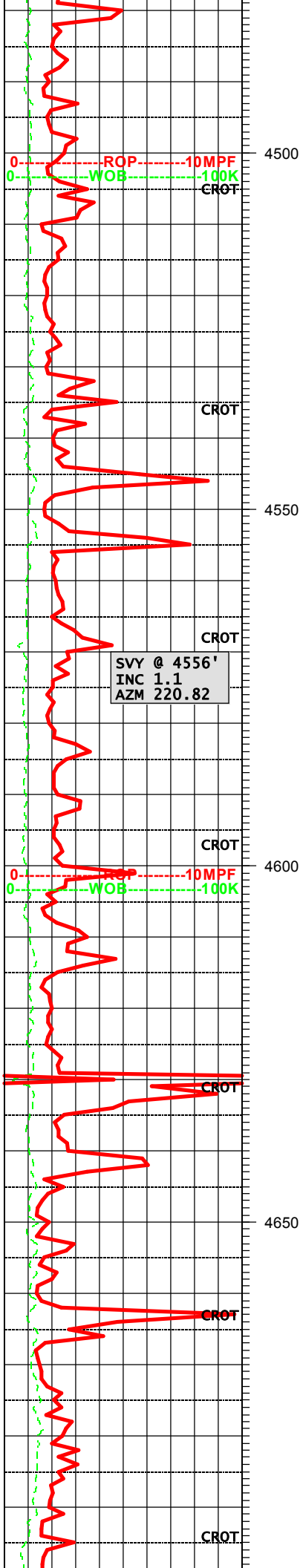
970u

609

PUMP
SWEEP

MWI 9.0
VIS 40
MWO 9.0
VIS 41

SAMPLE
DEPTH
4456 FT
WT 9.1
VIS 44
YP 14
CK 1/
SOL 5.7
PH 8.9
CHL 12500
CA 138



SHALE: GRY YELL TAN YELBRN
RDBRN MOTT WXY SMO BLKY-PLTY
SLTY IP SFT-FRM NCALC TR SAND

SHALE: GRY YELL TAN YELBRN
RDBRN MOTT WXY SMO BLKY-PLTY
SLTY IP SFT-FRM NCALC TR
SANDSTONE

SHALE: GRY YELL TAN YELBRN
RDBRN MOTT WXY SMO BLKY-PLTY
SLTY IP SFT-FRM NCALC TR
SANDSTONE

SHALE: GRY YELL TAN YELBRN
RDBRN MOTT WXY SMO BLKY-PLTY
SLTY IP SFT-FRM NCALC

SANDSTONE: GRY OFF-WHT RD BRN
VF-FN GR WL -SRT W- CONLS W/
CALC CMT TR PYR

SHALE: GRY YELL TAN YELBRN
RDBRN MOTT WXY SMO BLKY-PLTY
SLTY IP SFT-FRM NCALC TR
SANDSTONE

SHALE: GRY YELL TAN YELBRN
RDBRN MOTT WXY SMO BLKY-PLTY
SLTY IP SFT-FRM NCALC

SANDSTONE: GRY OFF-WHT RD BRN
VF-FN GR WL -SRT W- CONLS W/
CALC CMT TR PYR

SAND: CLR QRTZ OFF-WHT LT GRY
FN-MD CRS GR IP LSLY-NON-CONS

SHALE: GRY TN MOTT WXY SMO
BLKY-PLTY SLTY IP SFT-FRM

SAND: CLR QRTZ OFF-WHT LT GRY
FN-MD CRS GR IP LSLY-NON-CONS

SHALE: GRY TN MOTT WXY SMO
BLKY-PLTY SLTY IP SFT-FRM

SAND: CLR QRTZ OFF-WHT LT GRY
FN-MD CRS GR IP LSLY-NON-CONS

SHALE: GRY TN MOTT WXY SMO
BLKY-PLTY SLTY IP SFT-FRM

0- - - - - GAS - - - - - 2000u
0- - - - - GAS - - - - - 20%
0- - - - - CO2 - - - - - 5%

SHOW #9

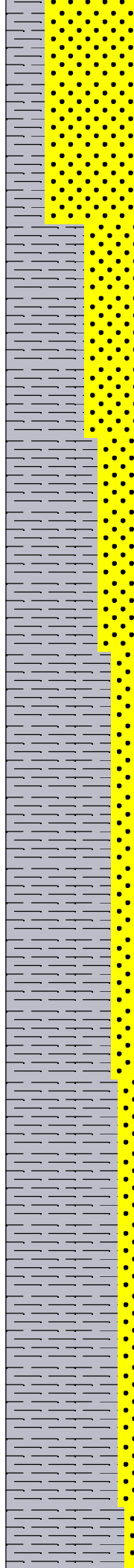
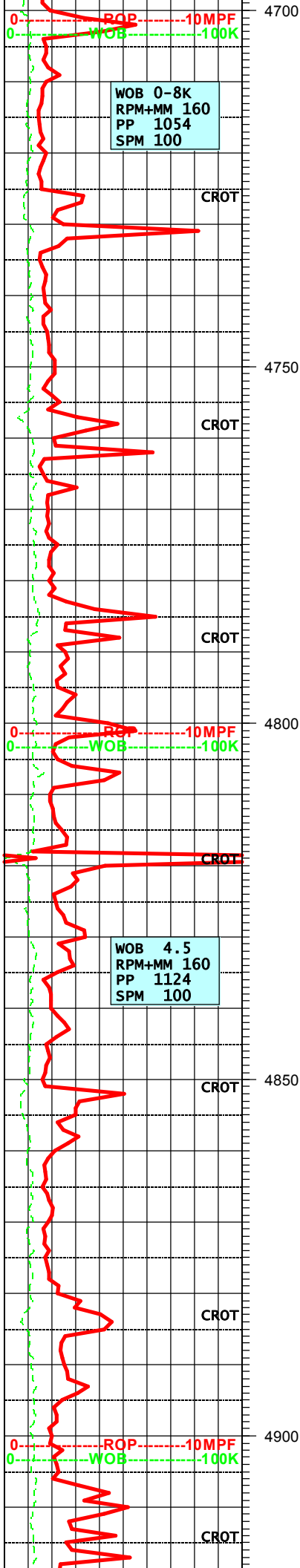
320u

0- - - - - GAS - - - - - 2000u
0- - - - - GAS - - - - - 20%
0- - - - - CO2 - - - - - 5%

SHOW #10

688u

732u



SAND: CLR QRTZ OFF-WHT LT GRY
FN-MD CRS GR IP LSLY-NON-CONS

SHALE: GRY TN MOTT WXY SMO
BLKY-PLTY SLTY IP SFT-FRM

SHALE: GRY TN MOTT WXY SMO
BLKY-PLTY SLTY IP SFT-FRM

SAND: CLR QRTZ OFF-WHT LT GRY FN-
MD CRS GR IP LSLY-NON-CONS

SHALE: GRY TN MOTT WXY SMO
BLKY-PLTY SLTY IP SFT-FRM

SAND: CLR QRTZ OFF-WHT LT GRY FN-
MD CRS GR IP LSLY-NON-CONS

SHALE: GRY TN MOTT WXY SMO
BLKY-PLTY SLTY IP SFT-FRM

SAND: CLR QRTZ OFF-WHT LT GRY FN-
MD CRS GR IP LSLY-NON-CONS

SHALE: LT GRY MD GRY DK GY BRN
TN YEL RD SFT MOD FRM PLTY BLKY
SLTY IP NON CALC

SANDSTONE BLU-GRY GRY VF-FN GR
SBRND-SBANG SIL CMT IP

SHALE: LT GRY MD GRY DK GY BRN
TN YEL RD SFT MOD FRM PLTY BLKY
SLTY IP NON CALC

SANDSTONE BLU-GRY GRY VF-FN GR
SBRND-SBANG SIL CMT IP

SHALE: LT GRY MD GRY DK GY BRN
TN YEL RD SFT MOD FRM PLTY BLKY
SLTY IP NON CALC

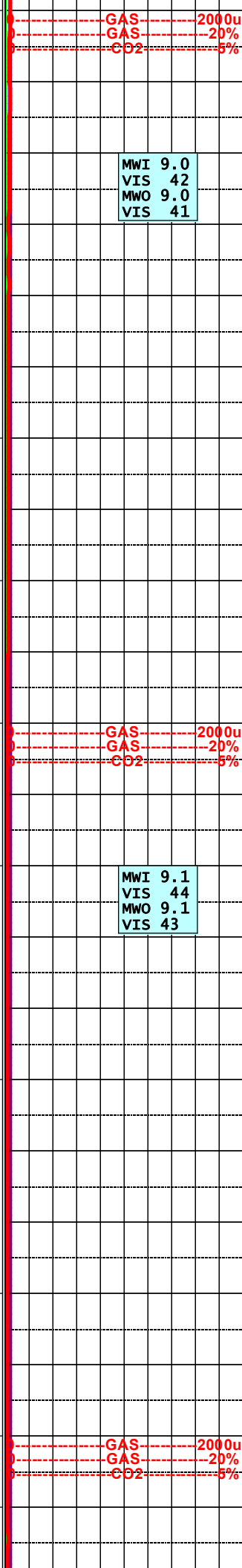
SANDSTONE BLU-GRY GRY VF-FN GR
SBRND-SBANG SIL CMT IP

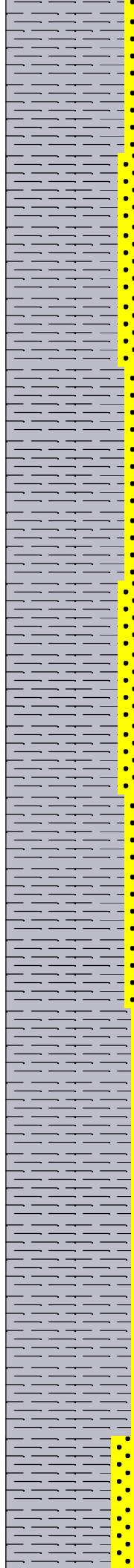
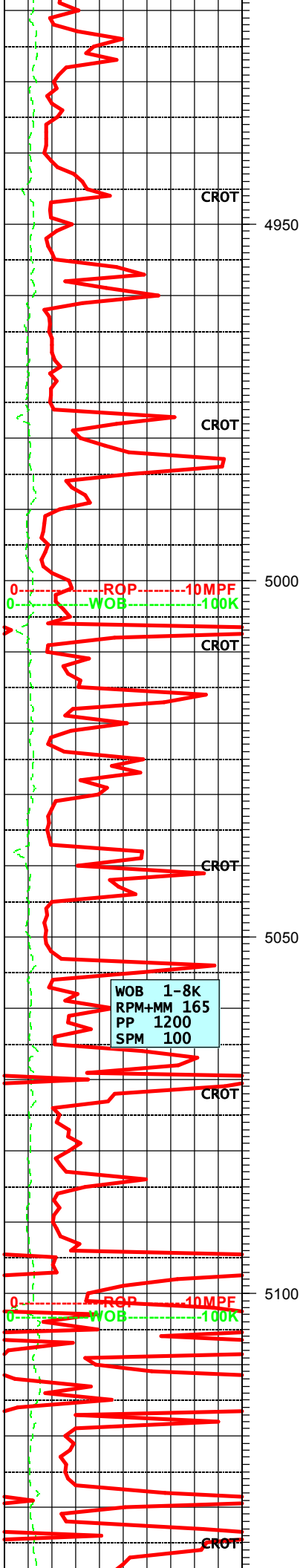
SHALE: LT GRY MD GRY DK GY BRN
TN YEL RD SFT MOD FRM PLTY BLKY
SLTY IP NON CALC

SANDSTONE BLU-GRY GRY VF-FN GR
SBRND-SBANG SIL CMT IP

SHALE: LT GRY MD GRY DK GY BRN
TN YEL RD SFT MOD FRM PLTY BLKY
SLTY IP NON CALC

SHALE: LT GRY MD GRY DK GY BRN
TN YEL RD SFT MOD FRM PLTY BLKY
SLTY IP NON CALC





SANDSTONE BLU-GRY GRY VF-FN GR
SBRND-SBANG SIL CMT IP

SHALE: LT GRY MD GRY DK GY BRN
TN YEL RD SFT MOD FRM PLTY BLKY
SLTY IP NON CALC

SANDSTONE BLU-GRY GRY VF-FN GR
SBRND-SBANG SIL CMT IP

SHALE: LT GRY MD GRY DK GY BRN
TN YEL RD SFT MOD FRM PLTY BLKY
SLTY IP NON CALC TR COAL

SANDSTONE:BLU-GRY GRY VF-FN GR
SBRND-SBANG SIL CMT IP

SHALE: L-MD-DK GRY BRN TN YEL RD
SFT- MOD FRM PLTY- BLKY SLTY IP
NON CALC TR COAL

SANDSTONE: BLU-GRY GRY VF-M GR
SBRND-SBANG SIL CMT IP NSFOC

SHALE: L-MD-DK GRY BRN TN YEL RD
SFT- MOD FRM PLTY- BLKY SLTY IP
NON CALC TR COAL

SANDSTONE: BLU-GRY GRY VF-M GR
SBRND-SBANG SIL CMT IP NSFOC

SHALE: TN L-MD-DK GRY BRN YEL RD
SFT- MOD FRM PLTY- BLKY SLTY IP
NON CALC TR COAL

SANDSTONE: BLU-GRY GRY VF-M GR
SBRND-SBANG SIL CMT IP NSFOC

SHALE: L-MD-DK GRY BRN TN YEL RD
SFT- MOD FRM PLTY- BLKY SLTY IP
NON CALC TR COAL

SHALE: L-MD-DK GRY BRN TN YEL RD
SFT- MOD FRM PLTY- BLKY SLTY IP
NON CALC TR COAL

SANDSTONE: OFF-WH GRY VF-M GR
SBRND-SBANG SIL CMT IP NSFOC

SHALE: TN L-MD-DK GRY BRN YEL RD
SFT- MOD FRM PLTY- BLKY SLTY IP
NON CALC TR COAL

SANDSTONE: OFF-WH GRY VVF-F GR
SBRND-SBANG MOD SRT MOD-
CONSL SLI CALC CMT IP NSFOC

GAS 2000u

GAS 20%

CO2 5%

MWI 9.0

VIS 41

MWO 8.9

VIS 42

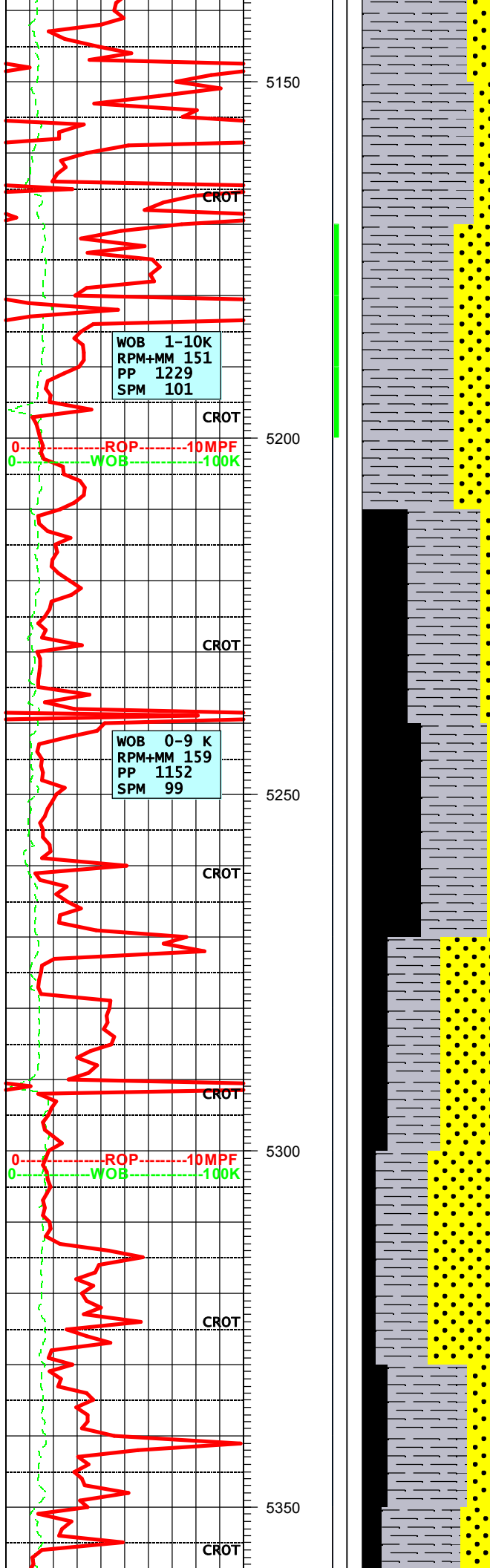
CO2 0.4%

1/30/2008

GAS 2000u

GAS 20%

CO2 5%



SHALE: TN L-MD-DK GRY BRN YEL RD
SFT- MOD FRM PLTY- BLKY SLTY IP
NON CALC TR COAL

SANDSTONE: OFF-WH GRY VVF-F GR
SBRND-SBANG MOD SRT MOD-
CONSL SLI CALC CMT IP NSFOC

MWI 9.1
VIS 44
MWO 8.9
VIS 45

DIESEL
BIT BALL
PILL 5GAL

SHOW #11

SHALE: L-MD-DK GRY BRN GRYGN
SFT- MOD FRM PLTY- BLKY SLTY IP
NON CALC TR COAL

SANDSTONE: OFF-WH GRY VVF-M GR
SBRND-SBANG MOD SRT MOD-
CONSL SLI CALC CMT IP GD INTRGR
POR

2769u

SHOW #12

SHALE: L-MD-DK GRY BRN GRYGN
SFT- MOD FRM PLTY- BLKY SLTY IP
NON CALC TR COAL

GAS 2000u
GAS 20%
CO2 5%

860u

SHOW #13

SHALE: L-MD-DK GRY TN DKBRN
GRYGN SFT- MOD FRM PLTY- BLKY
RTHY IP NON CALC

COAL: DKBRN BK MOTT DULL FLKY
BLKY-PLTY

645u

SANDSTONE: OFF-WH GRY VVF-M GR
SBRND-SBANG MOD SRT MOD-CONSL
SLI CALC CMT IP

SHALE: L-MD-DK GRY TN DKBRN
GRYGN SFT- MOD FRM PLTY- BLKY
RTHY IP NON CALC

SHOW #14

COAL: DKBRN BK MOTT DULL FLKY
BLKY-PLTY

600u

SANDSTONE: OFF-WH GRY VVF-M GR
SBRND-SBANG MOD SRT MOD-CONSL
SLI CALC CMT IP

MWI 9.0
VIS 43
MWO 9.0
VIS 45

SHALE: L-MD-DK GRY TN DKBRN
GRYGN SFT- MOD FRM PLTY- BLKY
RTHY IP NON CALC

COAL: DKBRN BK MOTT DULL FLKY
BLKY-PLTY

SANDSTONE: OFF-WH GRY VVF-M GR
SBRND-SBANG MOD SRT MOD-CONSL
SLI CALC CMT IP GD INTRGR POR

SHALE: L-MD-DK GRY TN DKBRN
GRYGN SFT- MOD FRM PLTY- BLKY
RTHY IP NON CALC

GAS 2000u
GAS 20%
CO2 5%

COAL: DKBRN BK MOTT DULL FLKY
BLKY-PLTY

SANDSTONE: OFF-WH GRY VVF-M GR
SBRND-SBANG MOD SRT MOD-
CONSL SLI CALC CMT IP GD INTRGR
POR

SHOW #15

SHALE: L-MD-DK GRY TN DKBRN
GRYGN SFT- MOD FRM PLTY- BLKY
RTHY IP NON CALC

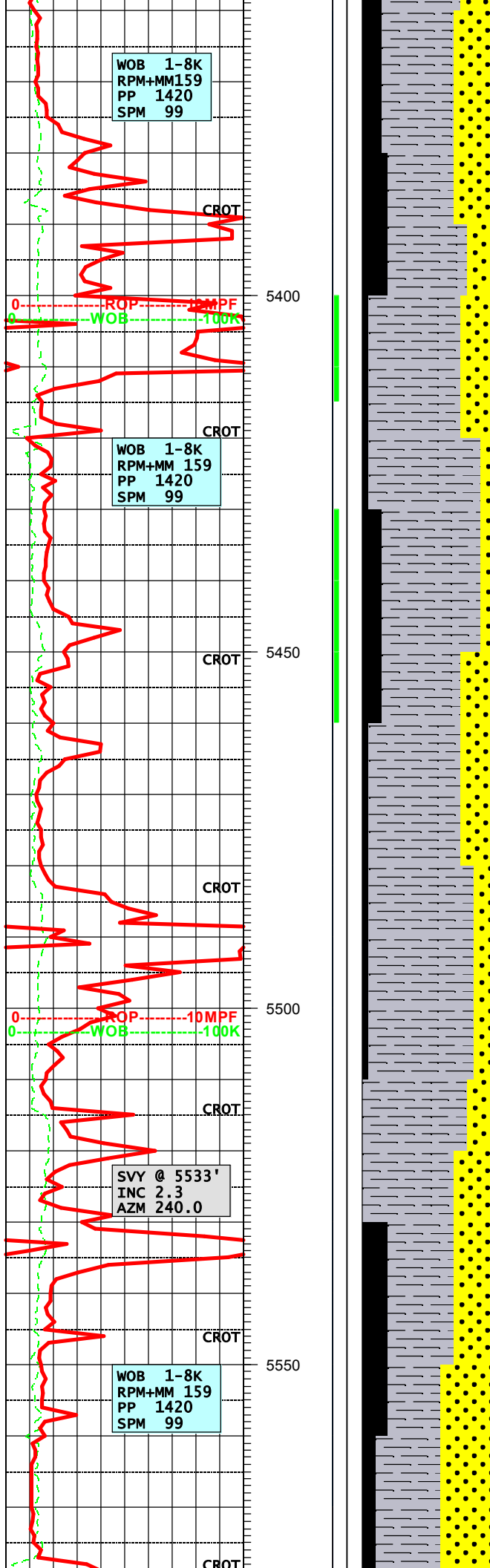
520u

COAL: DKBRN BK MOTT DULL FLKY
BLKY-PLTY

642u

SANDSTONE: OFF-WH GRY VVF-M GR
SBRND-SBANG MOD SRT MOD-
CONSL SLI CALC CMT IP GD INTRGR
POR

SAMPLE
DEPTH
5355 FT
WT 9.1



SHALE: L-MD-DK GRY TN DKBRN
GRYGN SFT- MOD FRM PLTY- BLKY
RTHY IP NON CALC
COAL: DKBRN BK MOTT DULL FLKY
BLKY-PLTY
SANDSTONE: OFF-WH GRY VVF-M GR
SBBRND-SBANG MOD SRT MOD-
CONSL SLI

WT 9.1
VIS 42
YP 8
CK 1/
SOL 5.7
PH8.0
CHL 9000
CA 95

SHOW #16

600u

SHALE: L-MD-DK GRY TN DKBRN
GRYGN SFT- MOD FRM PLTY- BLKY
RTHY IP NON CALC
COAL: DKBRN BK MOTT DULL FLKY
BLKY-PLTY
SANDSTONE: OFF-WH GRY VVF-M GR
SBBRND-SBANG MOD SRT MOD-
CONSL SLI

SHALE: L-MD-DK GRY TN DKBRN
GRYGN SFT- MOD FRM PLTY- BLKY
RTHY IP NON CALC
COAL: DKBRN BK MOTT DULL FLKY
BLKY-PLTY
SANDSTONE: OFF-WH GRY VVF-M GR
SBBRND-SBANG MOD SRT MOD-
CONSL SLI

GAS 2000u
GAS 20%
CO2 5%

634u

MWI 9.1
VIS 45
MWO 9.1
VIS 43

SHALE: L-MD-DK GRY TN DKBRN
GRYGN SFT- MOD FRM PLTY- BLKY
RTHY IP NON CALC
COAL: DKBRN BK MOTT DULL FLKY
BLKY-PLTY
SANDSTONE: OFF-WH GRY VVF-M GR
SBBRND-SBANG MOD SRT MOD-
CONSL SLI

SHOW #17

605u

SHALE: L-MD-DK GRY TN DKBRN
GRYGN SFT- MOD FRM PLTY- BLKY
RTHY IP NON CALC
COAL: DKBRN BK MOTT DULL FLKY
BLKY-PLTY
SANDSTONE: OFF-WH GRY VVF-M GR
SBBRND-SBANG MOD SRT MOD-
CONSL SLI

SHALE: L-MD-DK GRY TN DKBRN
GRYGN SFT- MOD FRM PLTY- BLKY
RTHY IP NON CALC
COAL: DKBRN BK MOTT DULL FLKY
BLKY-PLTY
SANDSTONE: OFF-WH GRY VVF-M GR
SBBRND-SBANG MOD SRT MOD-
CONSL SLI

SHALE: L-MD-DK GRY TN DKBRN
GRYGN SFT- MOD FRM PLTY- BLKY
NON CALC
COAL: DKBRN BK MOTT DULL FLKY
BLKY-PLTY
SANDSTONE: OFF-WH GRY VVF-M GR
SBBRND-SBANG MOD SRT MOD-
CONSL SLI CMT TR PYR

GAS 2000u
GAS 20%
CO2 5%

MWI 9.1
VIS 43
MWO 9.1
VIS 45

SHALE: L-MD-DK GRY TN DKBRN
GRYGN SFT- MOD FRM PLTY- BLKY
NON CALC

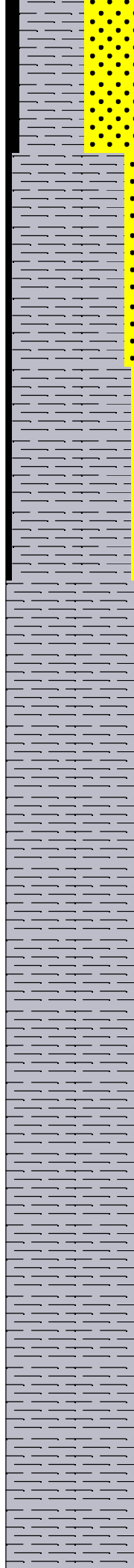
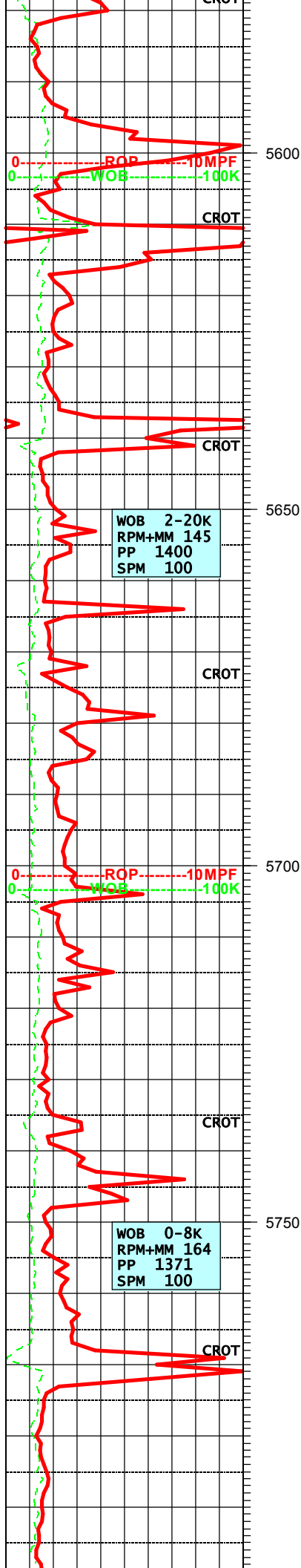
SHOW #18

640u

COAL: DKBRN BK MOTT DULL FLKY
BLKY-PLTY
SANDSTONE: OFF-WH GRY VVF-M GR
SBBRND-SBANG MOD SRT MOD-
CONSL SLI CMT TR PYR

SHALE: L-MD-DK GRY TN DKBRN
GRYGN SFT- MOD FRM PLTY- BLKY
NON CALC

SANDSTONE: OFF-WH GRY VVF-M GR
SBBRND-SBANG MOD SRT MOD-
CONSL SLI CMT TR PYR



COAL: DKBRN BK MOTT DULL FLKY BLKY-PLTY

SHALE: L-MD-DK GRY TN DKBRN GRYGN SFT- MOD FRM PLTY- BLKY NON CALC

SANDSTONE: OFF-WH GRY VVF-CRS GR SBBRND-SBANG MOD SRT MOD-WCONSL SLI CALC CMT TR PYR

COAL: DKBRN BK MOTT DULL FLKY BLKY-PLTY

SHALE: L-MD-DK GRY GRYGN SFT-FRM PLTY- BLKY NON CALC

SANDSTONE: OFF-WH GRY S&P VVF-CRS GR SBANG-ANG MOD SRT MOD-WCONSL SLI CALC CMT TR PYR NSFOC

COAL: DKBRN BK MOTT DULL FLKY BLKY-PLTY

SHALE: GRYGN L-MD-DK GRY GRYBN MODSFT-FRM PLTY- BLKY ARG NON CALC TR SANDSTONE

SHALE: GRYGN GRY GRYBN MODSFT-FRM PLTY- BLKY ARG NON CALC TR SANDSTONE TR PYR

SHALE: GRYGN GRY GRYBN MODSFT-FRM PLTY- BLKY ARG NON CALC TR SANDSTONE TR PYR

SHALE: GRYGN GRY GRYBN MODSFT-FRM PLTY- BLKY ARG NON CALC TR SANDSTONE TR PYR

SHALE: GRYGN GRY GRYBN MODSFT-FRM PLTY- BLKY ARG NON CALC TR COAL TR SANDSTONE TR PYR

SHALE: GRYGN GRY GRYBN MODSFT-FRM PLTY- BLKY ARG NON CALC TR COAL TR SANDSTONE TR PYR

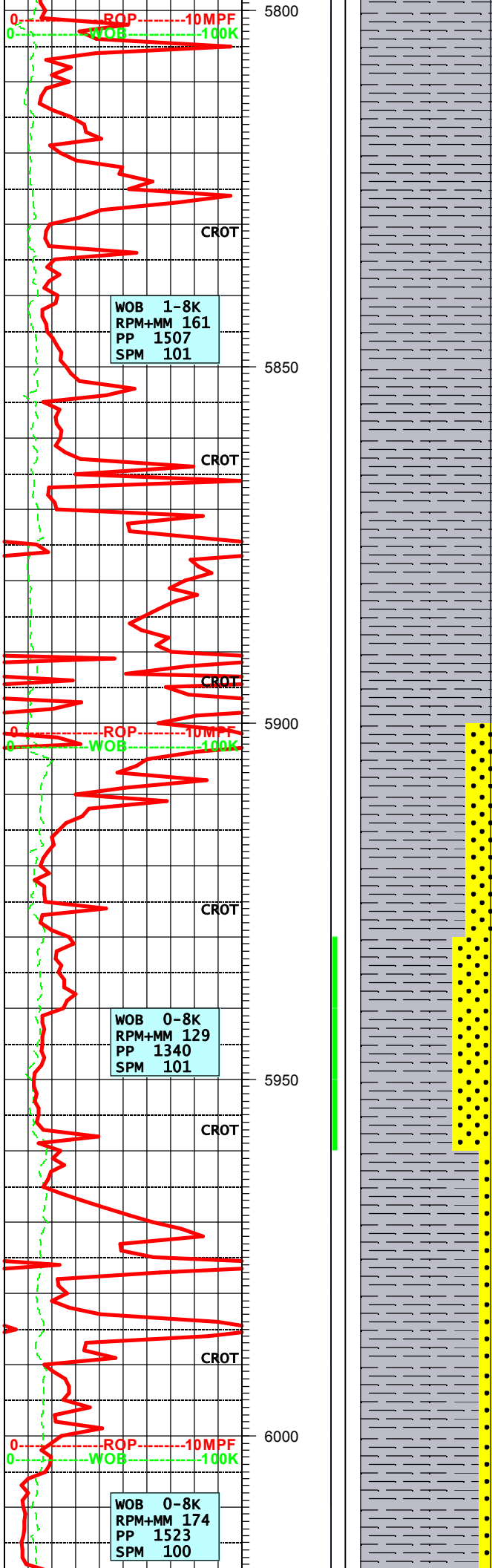
GAS 2000u
GAS 20%
CO2 5%

CO2 0.5%

GAS 2000u
GAS 20%
CO2 5%

1/31/2008

MW 9.2
VIS 45



SHALE: GRYGN GRY GRYBN MODSFT-
FRM PLTY- BLKY ARG NON CALC TR
COAL TR SANDSTONE TR PYR

SHALE: GRYGN GRY GRYBN MODSFT-
FRM PLTY- BLKY ARG SLTY IP NON
CALC TR COAL TR SANDSTONE TR
PYR

SHALE: GRYGN GRY GRYBN TN
MODSFT- FRM PLTY- BLKY ARG SLTY
IP NON CALC TR COAL TR
SANDSTONE

SHALE: GRYGN GRY GRYBN TN
MODSFT- FRM PLTY- BLKY ARG SLTY
IP NON CALC TR COAL TR
SANDSTONE

SHALE: GRYGN GRY GRYBN TN
MODSFT- FRM PLTY- BLKY ARG SLTY
IP NON CALC

SANDSTONE: WH OFF-WH GRY GLAU
VF-F ANG-SBANG MOD-W SRT MOD
CMT CALC FRIA IP INCL GD INTRGR
POR

SHALE: GRYGN GRY GRYBN TN BN
MODSFT- FRM PLTY- BLKY ARG SLTY
IP NON CALC TR COAL

SANDSTONE: WH OFF-WH GRY GLAU
VF-F ANG-SBANG MOD-W SRT MOD
CMT CALC FRIA IP INCL GD INTRGR
POR

SHALE: GRYGN GRY GRYBN TN BN
MODSFT- FRM PLTY- BLKY ARG SLTY
IP NON CALC TR COAL

SANDSTONE: WH OFF-WH GRY GLAU
VF-F ANG-SBANG MOD-W SRT MOD
CMT CALC FRIA IP INCL GD INTRGR
POR

SHALE: GRYGN GRY GRYBN TN BN
MODSFT- FRM PLTY- BLKY ARG SLTY
IP NON CALC TR COAL

SANDSTONE: WH OFF-WH GRY GLAU
VF-F ANG-SBANG MOD-W SRT MOD
CMT CALC FRIA IP INCL GD INTRGR
POR

SHALE: GRYGN GRY GRYBN TN BN
MODSFT- FRM PLTY- BLKY ARG SLTY
IP NON CALC TR COAL

SANDSTONE: WH OFF-WH GRY GLAU
VF-F ANG-SBANG MOD-W SRT MOD
CMT CALC FRIA IP INCL GD INTRGR
POR

GAS 2000u
GAS 20%
CO2 5%

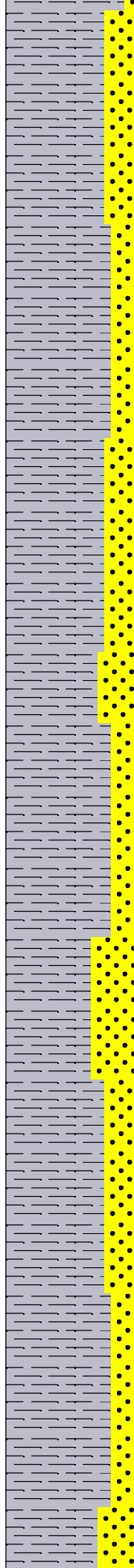
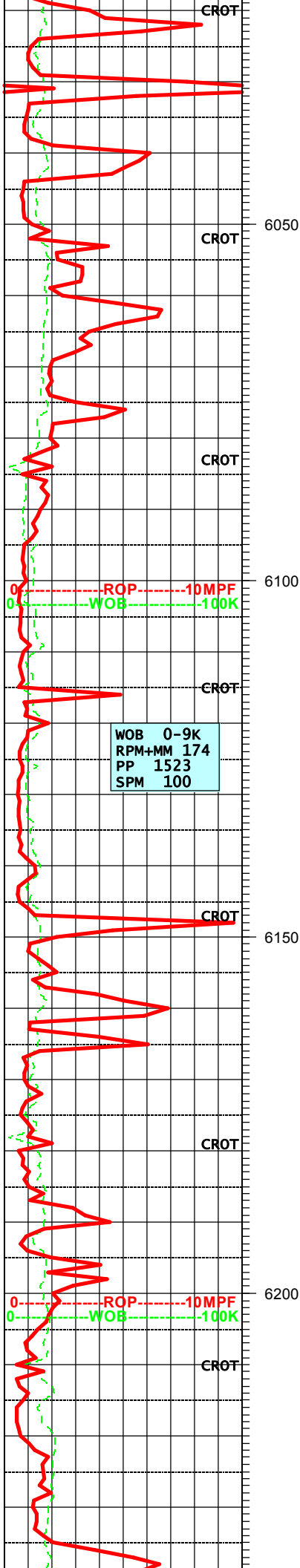
SAMPLE
DEPTH
5896 FT
WT 9.5
VIS 42
YP 12
CK 1/
SOL 6.8
PH 9.4
CHL 11000
CA 95

PUMP ROP
SWEEP

GAS 2000u
GAS 20%
CO2 5%

MWI 9.1
VIS 43
MWO 9.0
VIS 45

GAS 2000u
GAS 20%
CO2 5%



SHALE: GRYGN GRY GRYBN TN BN
MODSFT- FRM PLTY- BLKY ARG SLTY
IP
SANDSTONE: WH OFF-WH GRY GLAU
VF-F ANG-SBANG MOD-W SRT MOD
CMT

MWI 9.4
VIS 44
MWO 9.3
VIS 44

SHALE: GRYGN GRY GRYBN TN BN
MODSFT- FRM PLTY- BLKY ARG SLTY
IP
SANDSTONE: WH OFF-WH GRY GLAU
VF-F ANG-SBANG MOD-W SRT MOD
CMT

SHALE: GRYGN GRY GRYBN TN BN
MODSFT- FRM PLTY- BLKY ARG SLTY
IP
SANDSTONE: WH OFF-WH GRY GLAU
VF-F ANG-SBANG MOD-W SRT MOD
CMT

SHALE: GRY BRN DK GRY BLU-GRY
MOD-SFT - FRM BLKY PLTY SLTY IP
SANDSTONE:OFF-WHT GRY S& P VF-F
GR CALC IP TR PYR

GAS -500u
GAS -5%
CO2 -5%
SCALE CHANGE

SHALE: GRY BRN DK GRY BLU-GRY
MOD-SFT - FRM BLKY PLTY SLTY IP
SANDSTONE:OFF-WHT GRY S& P VF-F
GR CALC IP TR PYR

MWI 9.4
VIS 44
MWO 9.3
VIS 44

SHALE: GRY BRN DK GRY BLU-GRY
MOD-SFT - FRM BLKY PLTY SLTY IP
SANDSTONE:OFF-WHT GRY S& P VF-F
GR CALC IP TR PYR

CARBIDE BOMB
100u

SHALE: GRY BRN DK GRY BLU-GRY
MOD-SFT - FRM BLKY PLTY SLTY IP
SANDSTONE:OFF-WHT GRY S& P VF-F
GR CALC IP TR PYR

SHOW # 19

138u

SHALE: GRY BRN DKGY SFT-MOD FRM
-FRM PLTY-BLKY WXY-SLTY
SANDSTONE: FN MD GR GRY OFF-
WHT WITH OCC S&P

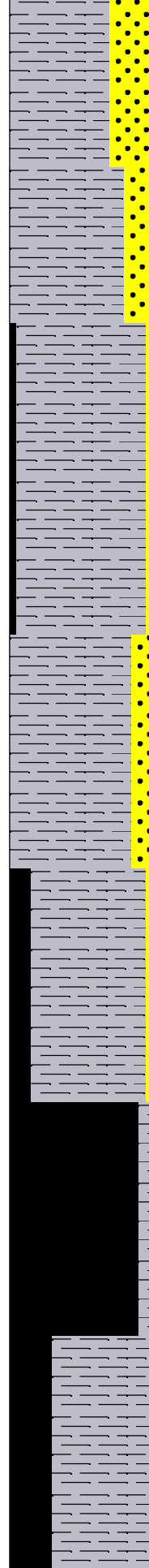
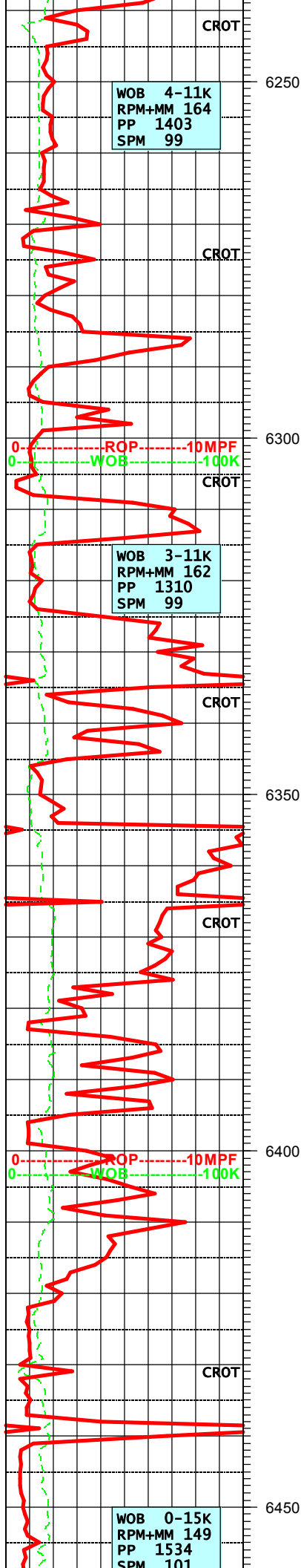
GAS -500u
GAS -5%
CO2 -5%

SHOW #20

245u

SHALE: GRY BRN DKGY SFT-MOD FRM
-FRM PLTY-BLKY WXY-SLTY

SANDSTONE: FN MD GR GRY OFF



SANDSTONE: FN MD GR GRY OFF-WHT WITH OCC S&P TR PYR

SHALE: GRY BRN DKGY SFT-MOD FRM -FRM PLTY-BLKY WXY-SLTY

SANDSTONE: FN MD GR GRY OFF-WHT WITH OCC S&P TR PYR

SHALE: MD-DKGRY GRYBN BN GRYGN MOD FRM -HD PLTY-BLKY WXY-SLTY NCALC

COAL: BLK DKBN DULL BLKY STRIA SM IP

SANDSTONE: GRY WHT OFF-WHT S&P IP F-MD GR SBANG-ANG P/SRT CONSL SLI CALC IP TR PYR

SHALE: MD-DKGRY GRYBN BN GRYGN YEL MOD FRM -HD PLTY-BLKY WXY-SLTY NCALC

COAL: DULL DKBN - GLSSY BLK BLKY RTHY STRIA

SANDSTONE: GRY WHT OFF-WHT S&P IP VF-MD GR SBANG-ANG P/SRT CONSL SLI CALC IP TR PYR

SHALE: MD-DKGRY GRYBN BN GRYGN MOD FRM -HD PLTY-BLKY WXY-SLTY NCALC TR COAL

SANDSTONE: GRY WHT OFF-WHT S&P IP VF-MD GR SBANG-ANG P/SRT CONSL SLI CALC IP TR PYR

SHALE: MD-DKGRY GRYBN BN GRYGN MOD FRM -HD PLTY-BLKY WXY-SLTY CARB

COAL: BK DKBN EA DULL-GLSSY FRM-HD PLTY-BLKY

SANDSTONE: GRY WHT OFF-WHT S&P IP VF-F GR SBANG-ANG P/SRT CONSL SLI CALC IP TR PYR

COAL: BK DKBN EA DULL FRM-HD PLTY-BLKY

SHALE: MD-DKGRY GRYBN BN GRYGN MOD FRM -HD PLTY-BLKY WXY-SLTY CARB

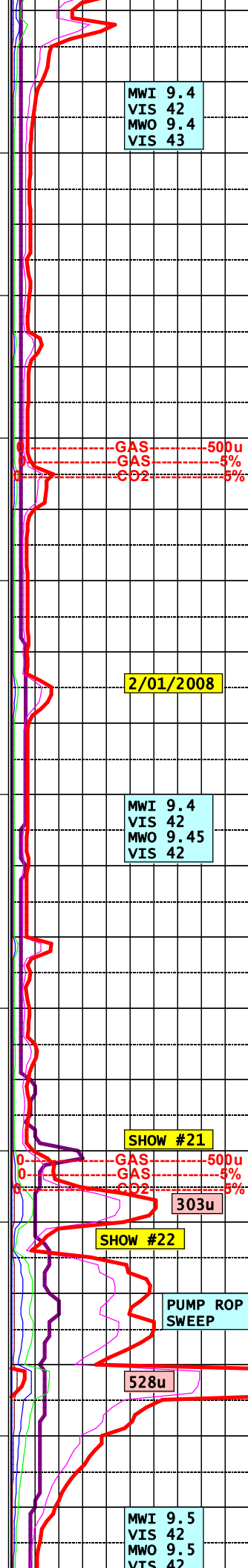
TR SANDSTONE

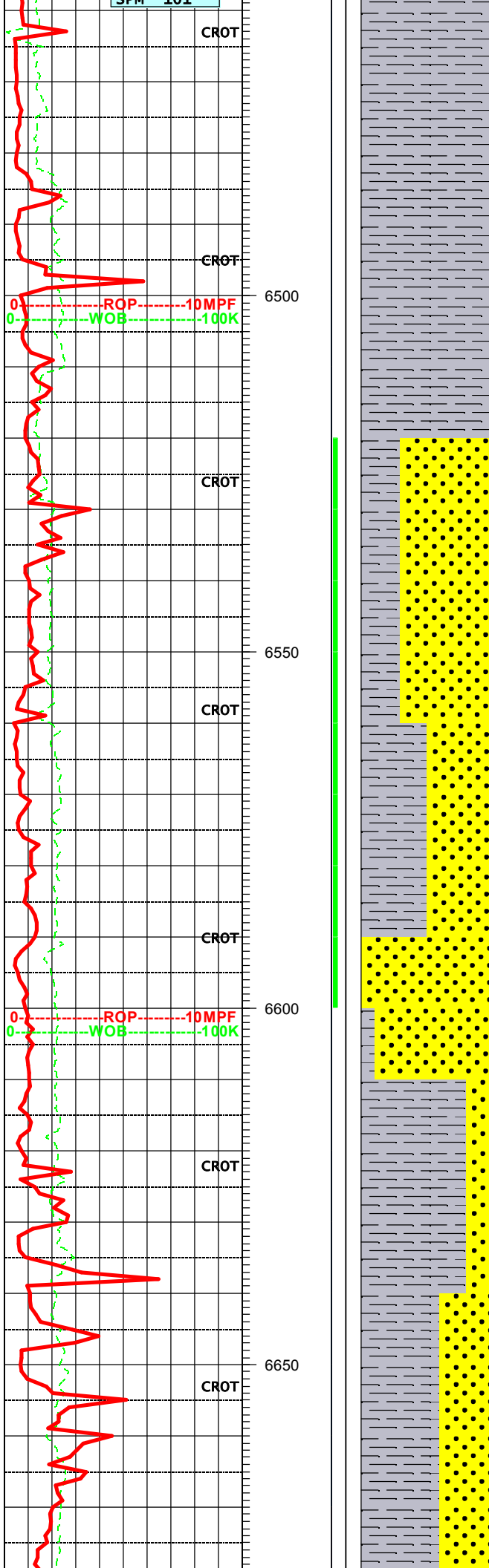
COAL: BK DKBN EA DULL FRM-HD PLTY-BLKY

SHALE: M-DKGY GYBN BN GYGN M-FRM -HD PLTY-BLKY WXY-SLTY CARB

SHALE: M-DKGY GYBN BN GYGN M-FRM -HD PLTY-BLKY WXY-SLTY CARB TR COAL

SHALE: M-DKGY GYBN BN GYGN M-FRM -HD PLTY-BLKY WXY-SLTY CARB TR COAL





SHALE: M-DKGY GYBN BN GYGN M-FRM -HD PLTY-BLKY WXY-SLTY CARB

SHOW #23

288u

SHALE: M-DKGY GYBN BN GYGN M-FRM -HD PLTY-BLKY WXY-SLTY CARB TR COAL

GAS 1000u
GAS 10%
CO2 5%

CHANGE SCALE

SHOW #24

SANDSTONE: CLR OFF-WHT LT GRY S & P F-MD GR ANG-SBANG LSLY CMTD W CALC CMT NON CONSL IP FRI HIGH PORSITY

949u

SHALE GRY RD ERTHY IP FRM -MOD SFT PLTY BLKY SLTY

SANDSTONE: CLR OFF-WHT LT GRY S & P F-MD GR ANG-SBANG LSLY CMTD W CALC CMT NON CONSL IP FRI HIGH PORSITY SHALE GRY RD ERTHY IP FRM -MOD SFT PLTY BLKY SLTY

726u

MWI 9.6
VIS 42
MWO 9.6
VIS 43

SANDSTONE: CLR OFF-WHT LT GRY S & P F-MD GR ANG-SBANG LSLY CMTD W CALC CMT NON CONSL IP FRI HIGH PORSITY SHALE GRY RD ERTHY IP FRM -MOD SFT PLTY BLKY SLTY

SHOW #25

SAND: CLR LSE NON-CONSOLIDATED MD -CRS GR QRTZ

1473u

SAND: CLR QRTZ FN-MD GR LSE MOD-CONS SBANG-SBBRRND

GAS 1000u
GAS 10%
CO2 5%

SHALE: GRY DRK GR BRN V-SFT MOD SFT- FRMPLTY BLKY SLTY IP CLY LIK
SANDSTONE: OFF-WHT LT GRY FN -MD GR FRI ALC CMT IP

SHALE: GRY DRK GR BRN V-SFT MOD SFT- FRMPLTY BLKY SLTY IP CLY LIK

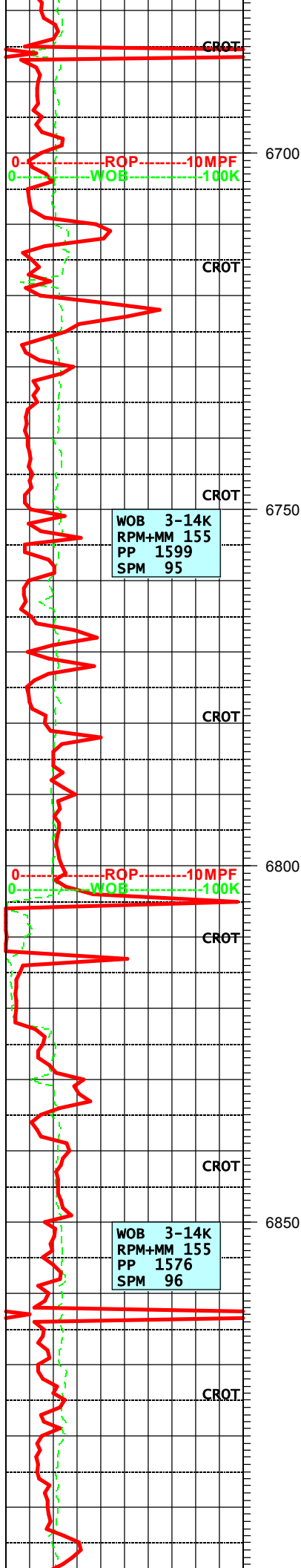
SANDSTONE: OFF-WHT LT GRY FN -MD GR FRI ALC CMT IP

MWI 9.6
VIS 42
MWO 9.6
VIS 43

CO2 1.1%

SHALE: GRY DRK GR BRN V-SFT MOD SFT- FRMPLTY BLKY SLTY IP CLY LIK

SANDSTONE: OFF-WHT LT GRY FN -MD GR FRI ALC CMT IP



SANDSTONE: OFF-WHT LT GRY FN - MD GR FRI ALC CMT IP

SHALE: GRY DRK GR BRN V-SFT MOD SFT- FRM PLTY BLKY SLTY IP CLY LIKE

SANDSTONE: OFF-WHT LT GRY FN - MD GR FRI CALC CMT IP

SANDSTONE: OFF-WHT LT GRY FN - MD GR FRI CALC CMT IP

SHALE: GRY DRK GR BRN V-SFT MOD SFT- FRM PLTY BLKY SLTY IP CLY LIKE

SANDSTONE: OFF-WHT LT GRY FN - MD GR FRI CALC CMT IP

SHALE: GRY DRK GR BRN V-SFT MOD SFT- FRM PLTY BLKY SLTY IP CLY LIKE

SANDSTONE: OFF-WHT LT GRY FN - MD GR FRI CALC CMT IP

SHALE: GRY DK GRY BRN V-SFT - FRM PLTY- BLKY SLTY IP CLY LIKE

SANDSTONE: WH OFFWH GY S&P CLR- FROS F-CRS ANG-SBANG P/SRT MOD CONSL CALC CMT ABNT LSE QTZ GRNS
SHALE: M-DKGY GYBN GYGRN BN FRM-HD BLKY-PLTY SM ARG CARB NCALC TR COAL

SANDSTONE: WH OFFWH GY S&P CLR- FROS F-CRS ANG-SBANG P/SRT MOD CONSL CALC CMT ABNT LSE QTZ GRNS
SHALE: M-DKGY GYBN GYGRN BN FRM-HD BLKY-PLTY SM ARG CARB NCALC TR COAL

SANDSTONE: WH OFFWH GY S&P CLR- FROS F-CRS ANG-SBANG P/SRT MOD CONSL CALC CMT ABNT LSE QTZ GRNS
SHALE: M-DKGY GYBN GYGRN BN FRM-HD BLKY-PLTY SM ARG CARB NCALC TR COAL

SANDSTONE: WH OFFWH GY S&P CLR- FROS F-CRS ANG-SBANG PRED LSE QTZ GRNS

MWI 9.6
VIS 42
MWO 9.6
VIS 43

SHOW #26

561u

MW 9.8
VIS 42

SHOW #27

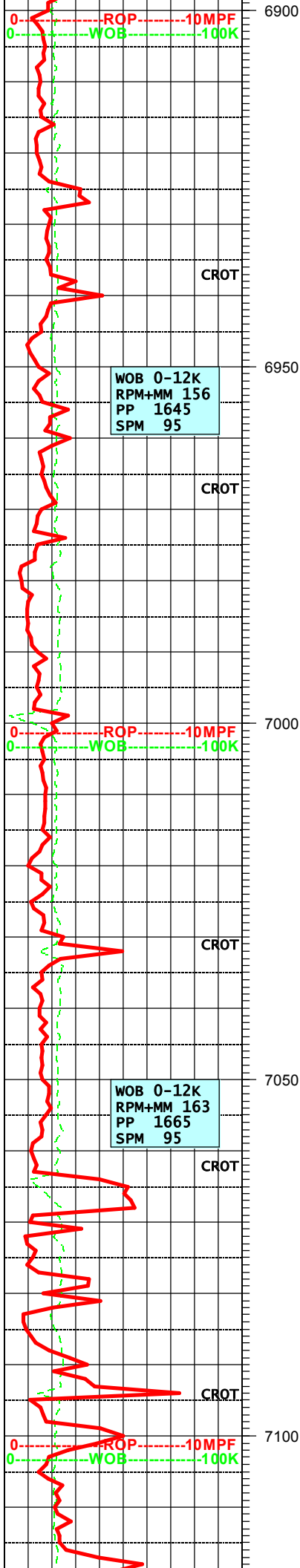
769u

SAMPLE DEPTH
6870 FT
WT 9.8
VIS 42
YP 13
CK 1/
SOL 7.5
PH 9.0
CHL 9000
CA 80

2/02/2008

GAS 1000u
GAS 10%
CO2 5%

GAS 1000u
GAS 10%
CO2 5%



SANDSTONE: WH OFFWH GY S&P
CLR- FROS F-CRS ANG-SBANG PRED
LSE QTZ GRNS
SHALE: M-DKGY GYBN GYGRN BN
FRM-HD BLKY-PLTY SM ARG CARB
NCALC
COAL: BK DKBN DULL BLKY-PLTY
FRM-HD

SANDSTONE: WH OFFWH GY S&P
CLR- FROS F-CRS ANG-SBANG PRED
LSE QTZ GRNS
SHALE: M-DKGY GYBN GYGRN BN
FRM-HD BLKY-PLTY SM ARG CARB
NCALC

SANDSTONE: WH OFFWH GY S&P
CLR- FROS F-CRS ANG-SBANG PRED
LSE QTZ GRNS
SHALE: M-DKGY GYBN GYGRN BN
FRM-HD BLKY-PLTY SM ARG CARB
NCALC
COAL: BK DKBN DULL BLKY-PLTY
FRM-HD

SANDSTONE: WH OFFWH GY S&P
CLR- FROS F-CRS ANG-SBANG PRED
LSE QTZ GRNS
SHALE: M-DKGY GYBN GYGRN BN
FRM-HD BLKY-PLTY SM ARG CARB
NCALC
COAL: BK DKBN DULL BLKY-PLTY
FRM-HD

SANDSTONE: WH OFFWH GY S&P
CLR- FROS F-CRS ANG-SBANG PRED
LSE QTZ GRNS

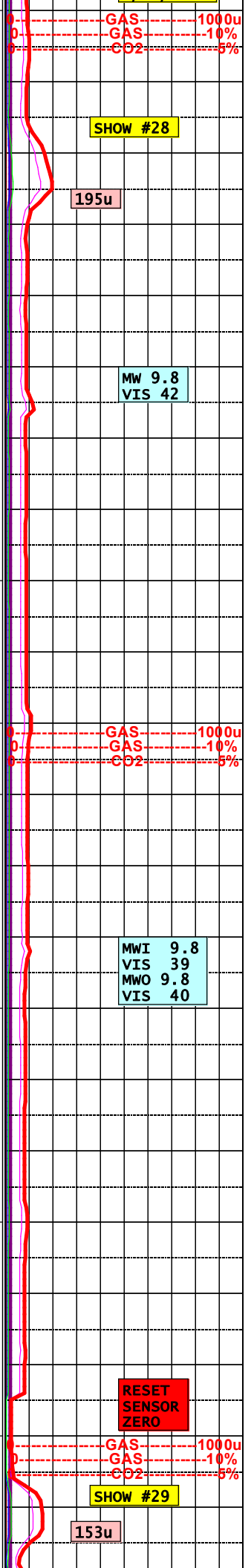
SHALE: WH OFFWH GY S&P CLR-
FROS F-CRS ANG-SBANG MOD SRT
MOD-W CONSL SIL CMT LSE QTZ
GRNS NSFOC
SHALE: M-DKGY GYBN GYGRN BN
FRM-HD BLKY-PLTY SM ARG CARB
NCALC
COAL: BK DKBN DULL BLKY-PLTY
FRM-HD

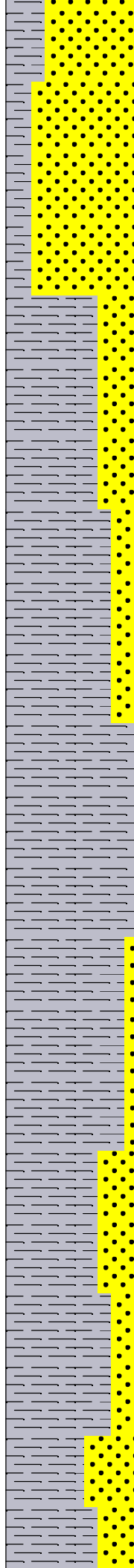
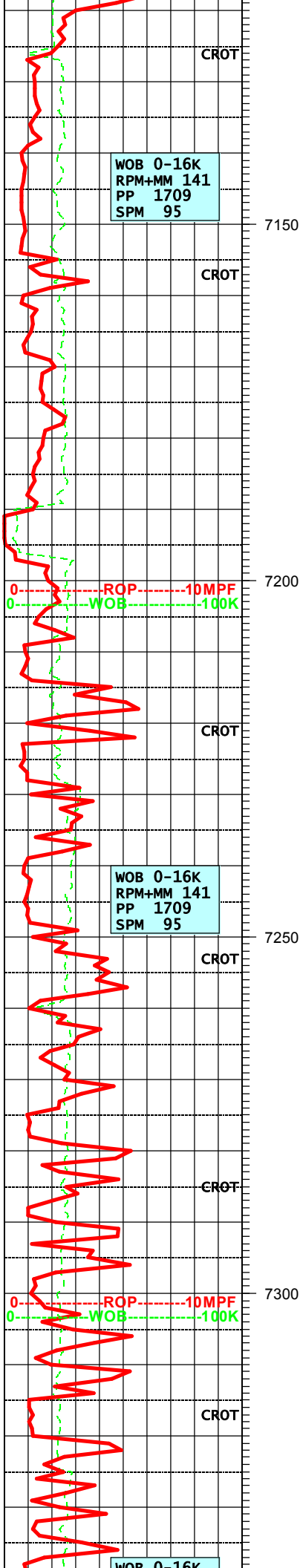
SANDSTONE: WH OFFWH GY S&P
CLR- FROS VF-M ANG-SBANG MOD
SRT MOD CONSL SLI CALC CMT
ABDNT LSE QTZ GRNS NSFOC
SHALE: M-DKGY GYBN GYGRN BN
FRM-HD BLKY-PLTY SM ARG CARB
NCALC
COAL: BK DKBN DULL BLKY-PLTY
FRM-HD

SANDSTONE: WH OFFWH GY S&P
CLR- FROS VF-M ANG-SBANG MOD
SRT MOD CONSL SLI CALC CMT
ABDNT LSE QTZ GRNS NSFOC
SHALE: M-DKGY GYBN GYGRN BN
FRM-HD BLKY-PLTY SM ARG CARB
NCALC
COAL: BK DKBN DULL BLKY-PLTY
FRM-HD

SANDSTONE: WH OFFWH GY S&P
CLR- FROS VF-M ANG-SBANG MOD
SRT MOD CONSL SLI CALC CMT

SHALE: M-DKGY GYBN GYGRN BN
FRM-HD BLKY-PLTY SM ARG CARB
NCALC





SANDSTONE: WH OFFWH GY S&P
CLR- FROS VF-M ANG-SBANG MOD
SRT MOD CONSL SLI CALC CMT

SHALE: M-DKGY GYBN GYGRN BN
FRM-HD BLKY-PLTY SM ARG CARB
NCALC

MWI 9.8
VIS 43
MWO 9.9
VIS 43

SANDSTONE: WH OFFWH GY S&P
CLR- FROS VF-M ANG-SBANG MOD
SRT MOD CONSL SLI CALC CMT

SHALE: M-DKGY GYBN GYGRN BN
FRM-HD BLKY-PLTY SM ARG CARB
NCALC

SHALE: M-DKGY GYBN GYGRN BN
FRM-HD BLKY-PLTY SM ARG CARB
NCALC

SHALE: M-DKGY GYBN GYGRN BN
FRM-HD BLKY-PLTY SM ARG CARB
NCALC SANDSTONE: GRY LT GRY MD
GR VF-FN W-CONS W-SRTCALC CMT
IP

GAS -1000u
GAS -10%
CO2 -5%

SHALE: M-DKGY GYBN GYGRN BN
FRM-HD BLKY-PLTY SM ARG CARB
NCALC

MWI 9.8
VIS 43
MWO 9.9
VIS 43

SHALE: M-DKGY GYBN GYGRN BN
FRM-HD BLKY-PLTY SM ARG CARB
NCALC
SANDSTONE: GRY LT GRY MD GR VF-
FN W-CONS W-SRTCALC CMT IP

SHALE: M-DKGY GYBN GYGRN BN
FRM-HD BLKY-PLTY SM ARG CARB
NCALC SANDSTONE: GRY LT GRY MD
GR VF-FN W-CONS W-SRTCALC CMT
IP

SHALE: LT GRY GRY BRN FRM -MOD
HRD PLTY BLKY WXY SLTY IP
SANDSTONE: LT GRY VF-FN GR W-SRT
W-CONS CALC CMT IP SBANG-ANG

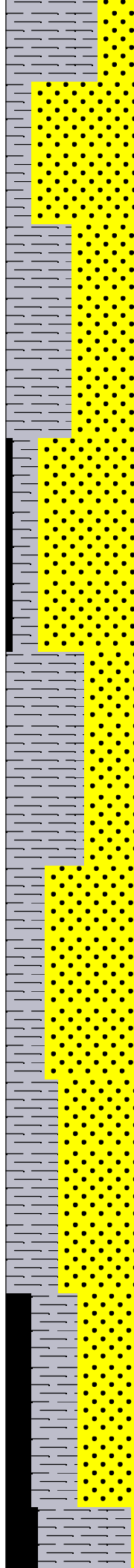
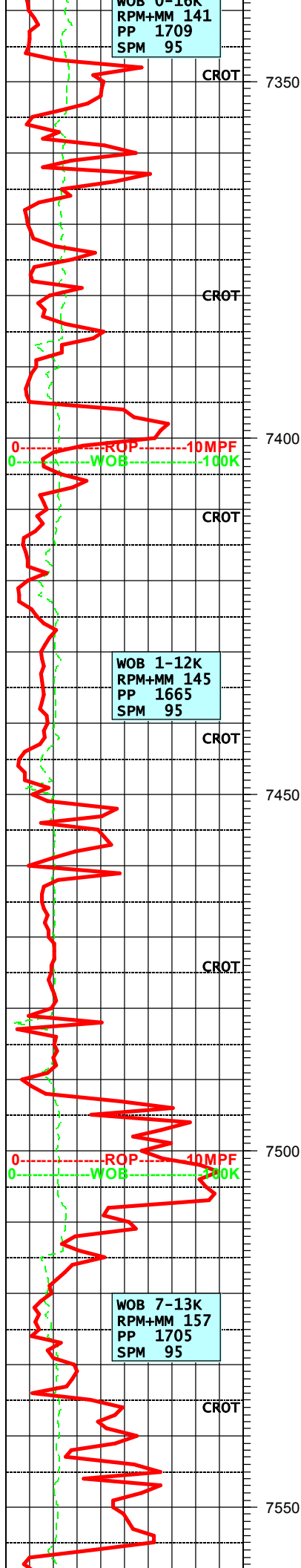
GAS -1000u
GAS -10%
CO2 -5%

SHALE: LT GRY GRY BRN FRM -MOD
HRD PLTY BLKY WXY SLTY IP

SANDSTONE: LT GRY VF-FN GR W-
SRT W-CONS CALC CMT IP SBANG-
ANG

SHOW #30

211u



SANDSTONE: LT GRY VF-FN GR W-
SRT W-CONS CALC CMT IP SBANG-
ANG

SHALE:LT GRY GRY BRN FRM -MOD
HRD PLTY BLKY WXY SLTY IP

SANDSTONE: LT GRY VF-FN GR W-
SRT W-CONS CALC CMT IP SBANG-
ANG

SHALE:LT GRY GRY BRN FRM -MOD
HRD PLTY BLKY WXY SLTY IP

SANDSTONE: WH OFFWH S&P IP VF-
FN SBANG-ANG W-SRT W-CONSL SIL
CMT TT INTRGR POR NSFOC

SHALE:LT- DKGRY GRYGN BRN YEL IP
FRM -HD PLTY BLKY SM SLTY IP

COAL: BK DULL BLKY-PLTY FRM-HD

SHALE: LT- DKGRY GRYGN FRM -HD
PLTY BLKY SM SLTY IP TR COAL
SANDSTONE: WH OFFWH S&P IP VF-
FN SBANG-ANG W-SRT W-CONSL SIL
CMT TT INTRGR POR NSFOC

SANDSTONE: GRY OFFWH WH S&P IP
CRYPTO-FN SBANG-ANG HD INTRLAM
W-SRT W-CONSL SIL CMT CALC IP TT
INTRGR POR NSFOC

SHALE:LT- DKGRY GRYGN BRN YEL IP
FRM -HD PLTY BLKY SM SLTY IP

SANDSTONE: GRY OFFWH WH S&P IP
CRYPTO-FN SBANG-ANG HD W-SRT
W-CONSL CALC CMT IP TT INTRGR
POR NSFOC

SANDSTONE: GRY OFFWH WH S&P IP
CRYPTO-FN SBANG-ANG HD W-SRT
W-CONSL CALC CMT IP TT INTRGR
POR NSFOC

SHALE: M- DKGRY GRYGN BRN FRM -
HD PLTY BLKY SM SLTY IP

SANDSTONE: GRY OFFWH WH S&P IP
CRYPTO-FN SBANG-ANG HD W-SRT
W-CONSL CALC CMT IP TT INTRGR
POR NSFOC

SHALE: M- DKGRY GRYGN BRN FRM -
HD PLTY BLKY SM SLTY IP
COAL: BLK HD BLKY GLSSY FLOATS

SHALE: M- DKGRY GRYGN BRN FRM -
HD PLTY BLKY SM SLTY IP
COAL: BLK HD BLKY GLSSY FLOATS
SAND: GRY OFFWH WH S&P IP

MWI 9.8
VIS 41
MWO 9.9
VIS 42

SHOW #31

504u

SHOW #32

130u

0 - GAS -1000u
0 - GAS -10%
0 - CO2 -5%

151u

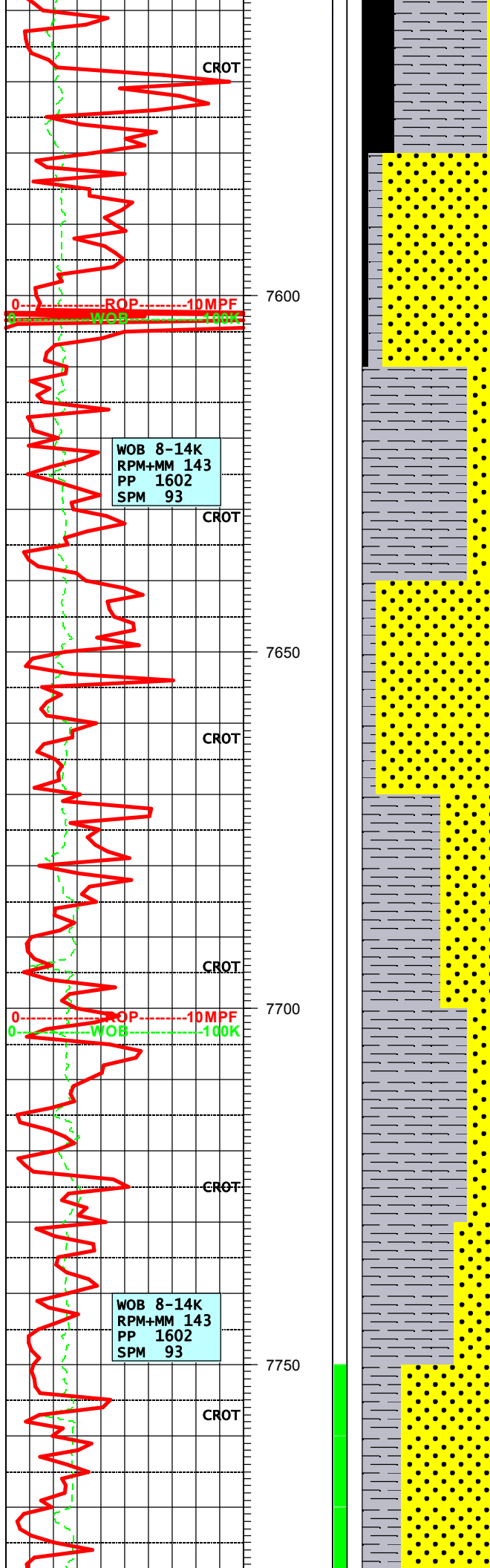
MWI 9.8
VIS 42
MWO 9.9
VIS 42

171u

2/03/2008

0 - GAS -1000u
0 - GAS -10%
0 - CO2 -5%

SAMPLE
DEPTH
7500 FT
WT 9.9



SAND: GRY OFFWH WH S&P IP
CRYPTO-FN SBANG-ANG HD W-SRT
W-CONSL CALC CMT IP TT INTRGR
POR NSFOC

SANDSTONE: GRY OFFWH S&P
CRYPTO-FN SBANG-ANG HD W-SRT
W-CONSL CALC CMT IP TT INTRGR
POR NSFOC
SHALE: M- DKGRY GRYGN BRN FRM -
HD PLTY BLKY SM SLTY IP
COAL: BLK HD BLKY GLSSY FLOATS

SANDSTONE: GRY OFFWH S&P
CRYPTO-FN SBANG-ANG HD W-SRT
W-CONSL CALC CMT IP TT INTRGR
POR NSFOC

SHALE: GRY DK GRY BRN PLTY BLKY
FRM-V-HRD SLTY IP

SANDSTONE : OFF-WHT LT GRY MD-
FN GR W-SRT W-CONSL CALC CMT IP

SANDSTONE: GRY OFFWH S&P
CRYPTO-FN SBANG-ANG HD W-SRT
W-CONSL CALC CMT IP TT INTRGR
POR NSFOC

SHALE:GRY DK GRY FRM PLTY BLKY

SHALE: GRY DK GRY BRN PLTY BLKY
FRM-V-HRD SLTY IP

SANDSTONE : OFF-WHT LT GRY FN-
VFN GR W-SRT W-CONSL CALC CMT
IP

SHALE: GRY DK GRY BRN PLTY BLKY
FRM-V-HRD SLTY IP

SANDSTONE : OFF-WHT LT GRY MD-
FN GR W-SRT W-CONSL CALC CMT IP

SANDSTONE: OFF-WHT GRY S & P
MD FN-VF GR FRI CONSL W CALC CMT
IP FREE PYR

SHALE LT GRY BRN SLTY PLTY BLKY
CALC IP

SANDSTONE: S & P OFF-WHT GRY
MD GR FRI CONSL W CALC CMT
IPHIGH PORSTY

SHALE LT GRY BRN SLTY PLTY BLKY
CALC IP

WT 9.9
VIS 44
YP 14
CK 1/
SOL 9
PH 9.5
CHL 8000
CA 40

GAS 1000u
GAS 10%
CO2 5%

PUMP HI VIS
ROP SWEEP

MWI 9.8
VIS 45
MWO 9.9
VIS 45

GAS 1000u
GAS 10%
CO2 5%

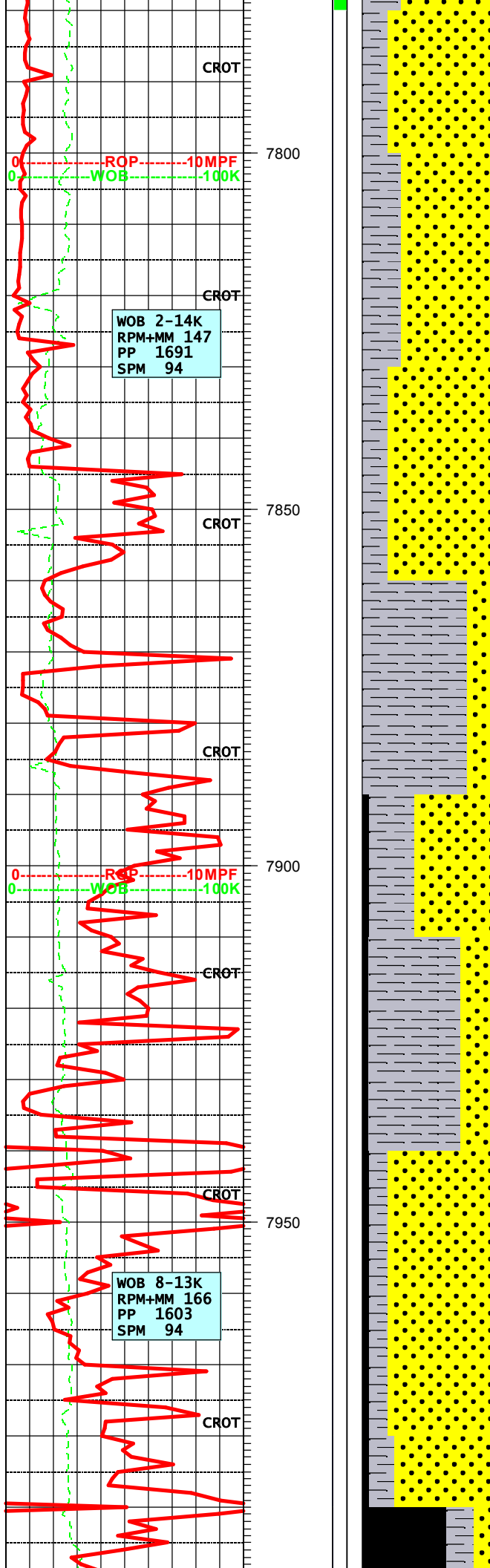
140u

200u

MWI 9.8
VIS 45
MWO 9.9
VIS 45

SHOW #33

1067u



SANDSTONE: S & P OFF-WHT GRY MD GR FRI CONSL W CALC CMT IPHIGH PORSTY

SHALE LT GRY BRN SLTY PLTY BLKY CALC IP

SANDSTONE: S & P OFF-WHT GRY MD GR FRI CONSL W CALC CMT IP HIGH PORSTY

SHALE: LT GRY BRN SLTY PLTY BLKY CALC IP

SANDSTONE: S & P OFF-WHT GRY MD GR FRI CONSL W CALC CMT IP HIGH PORSTY

SHALE LT GRY BRN SLTY PLTY BLKY CALC IP TR COAL

SHALE: LT GRY BRN SLTY PLTY BLKY CALC IP TR COAL

SANDSTONE:OFF-WHT GRY S&P MD GR FRI CONSL W CALC CMT IP

SANDSTONE: S & P OFF-WHT GRY VF-MD ANG-SBANG MODSRT WCONSL SLI CALC CMT IP TT INTRGR POR

SHALE: LT GRY BRN SLTY PLTY BLKY CALC IP
COAL: BK BLKY HD GLSSY FLOATS

SANDSTONE: S & P OFF-WHT GRY VF-MD ANG-SBANG MODSRT WCONSL SLI CALC CMT IP TT INTRGR POR

SHALE: M-DK GRY BRN HD SLTY PLTY BLKY CARB

SANDSTONE: S & P OFF-WHT GRY VF-MD ANG-SBANG MODSRT WCONSL SLI CALC CMT IP TT INTRGR POR

COAL: BK BLKY HD GLSSY FLOATS

SANDSTONE: S & P OFF-WHT GRY VF-MD ANG-SBANG MODSRT WCONSL SLI CALC CMT IP TT INTRGR POR

SHALE: M-DK GRY GRYGN BRN HD SLTY PLTY BLKY CARB

COAL: BK BN BLKY HD GLSSY FLOATS

COAL: BK BN BLKY HD GLSSY FLOATS
SANDSTONE: S & P OFF-WHT TN GRY VF-MD ANG-SBANG MODSRT WCONSL CALC CMT IP TT INTRGR POR
SHALE: M-DK GRY GRYGN BRN HD SLTY PLTY BLKY CARB

SAMPLE
DEPTH
7810 FT
WT 9.9
VIS 45
YP 14
CK 1/
SOL 9
PH 9.5
CHL 7000
CA 40

209u

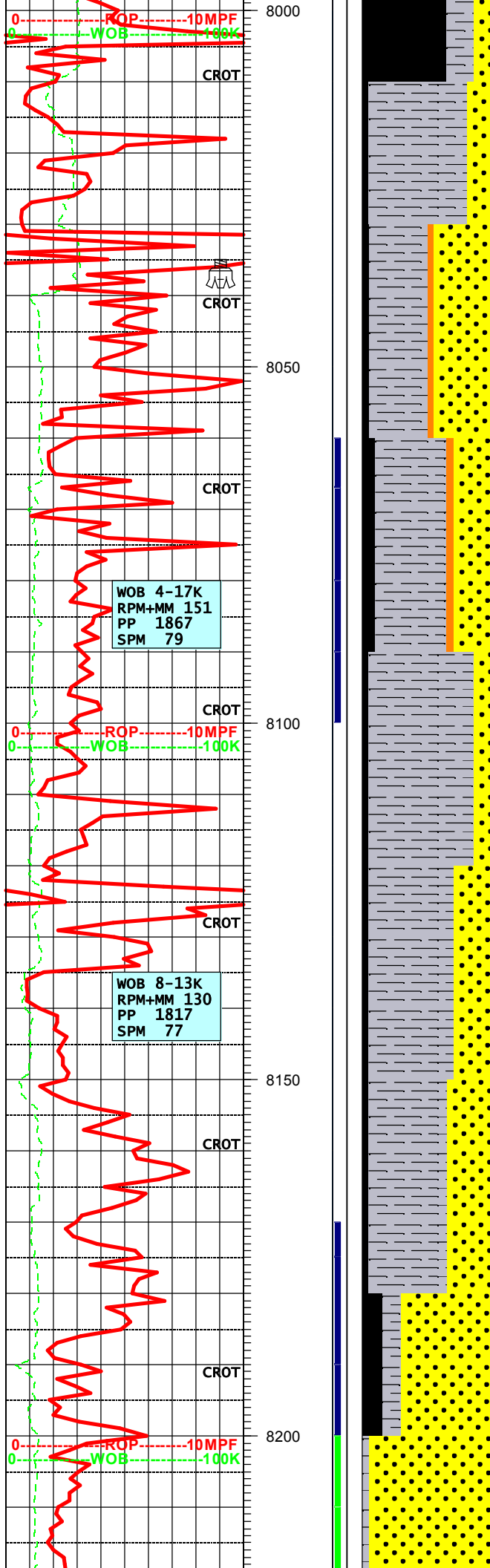
GAS 1000u
GAS 10%
CO2 5%

2/04/2008

166u

MWI 10.0
VIS 47
MWO 10.05
VIS 48

PUMP HI VIS
ROP SWEEP



COAL: BK BN BLKY HD GLSSY FLOATS

SANDSTONE: S & P OFF-WHT TN GRY
VF-MD ANG-SBANG MODSRT WCONS
CALC CMT IP TT INTRGR POR

SHALE: M-DK GRY GRYGN BRN HD
SLTY PLTY BLKY CARB

NEW BIT#3, BI CENTER, 6X7X4 3/4"
(PDC), S/N 3317805, JETS 5X16, DEPTH
IN 8039 FT

SAND: CLR, TRNSL, LT GY, OPAQ,
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

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

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
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

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

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 INTGRN POR, TR LSE QTZ
GRNS,TR PYR, TR CARB/COAL MAT,
SLI CALC, NSFOC

SHALE: LTGY-OCC DK GY, TN, OCC
BRN, MOD FRM, SLTY, LAM - INTLAM,
SPLTY IP, RGH TXT, DULL LSTR, NON-
FISS, V LMY, V CALC, AREN, ABNDT
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 INTGRN POR, SLI
CALC, SLI VIS FLOR 3-5%, W/DULL
YELL FLOR

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

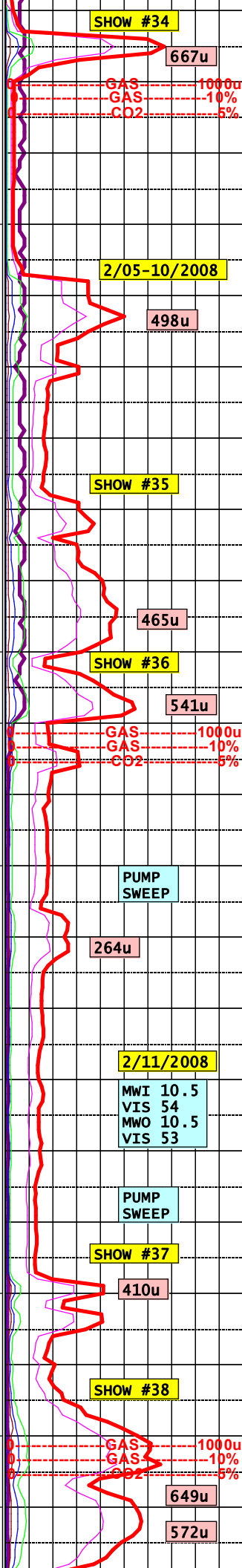
SANDSTONE:OFF-WH, LT GY, MOD
IND, VVF-FGR, SBANG-ANG, MOD
SRTD, P CONS, OCC LSE CALC GRNS,
P CMTD, TR LSE QTZ GRNS,TR PYR,
ABDNT CARB/COAL MAT W/ COAL
STNGRS, SLI CALC, NSFOC

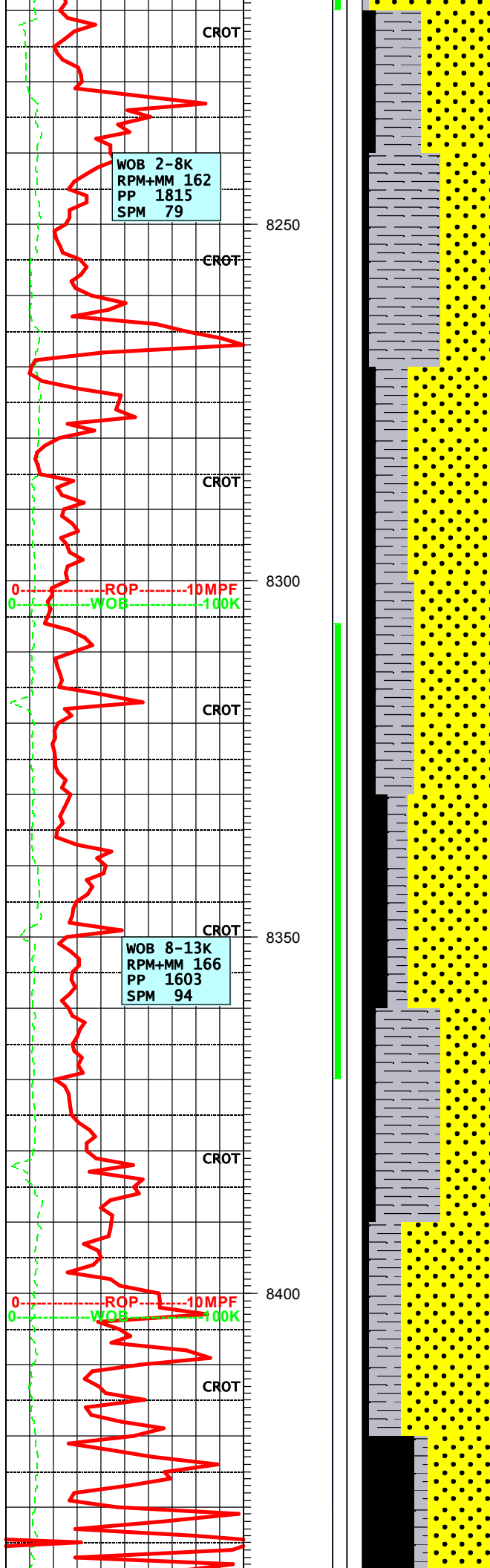
SHALE: LTGY-OCC DK GY, TN, OCC
BRN, MOD FRM, SLTY, LAM - INTLAM,
SPLTY IP, RGH TXT, DULL LSTR,
NONFISS, V LMY, V CALC, AREN,

SHALE: LTGY-OCC DK GY, TN, OCC
BRN, MOD FRM, SLTY, LAM - INTLAM
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: WH OFF-WH, CLR, VVF-
FGR, SBANG-ANG, MOD SRTD, P
CONS, P CMTD, PRED LSE QTZ GRNS,
NCALC, NSFOC, TR COAL

SANDSTONE: CLR, TRNSL, LT GY,
OPAQ, 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





P CMTD, TR LSE QTZ GRNS, TR PYR,
ABDNT CARB/COAL MAT W/ COAL
STNGRS, SLI CALC, NSFOC

COAL: BLK, MICRO, VIT, GLSSY
LSTR, V BRITT, FAINT PETRO ODOR
SHALE: DKGY-GY, GYBN, DKBN, MOD
FRM-FRM, BLKY-PLTY, FLKY, RTHY,
DULL, NON 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
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

COAL: BLK, MICRO, VIT, GLSSY LSTR,
V BRITT, FAINT PETRO ODOR, 10%
FLOATERS

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: 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 INTRGRN POR, TR LSE QTZ
GRNS, TR PYR, TR CARB/COAL MAT,
SLI CALC, NSFOC
COAL: BLK, MICRO, VIT, GLSSY LSTR
I.P., V BRITT, NO EV ORG MAT,
VITRAIN BANDS, OCC MIN FLOR,
FAINT PETRO ODOR, W/10-15%
FLOATERS

SHALE: LTGY-OCC DK GY, TN, OCC
BRN, MOD FRM, SLTY, LAM - INTLAM,
SPLTY IP, RGH TXT, DULL LSTR, NON-
FISS, 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

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

SHALE: LTGY-OCC DK GY, TN, OCC
BRN, MOD FRM, LAM - INTLAM, SPLTY
IP, RGH TXT, DULL LSTR, NONFISS, V
LMY, V CALC, AREN,

SHALE: LTGY-OCC DK GY, TN, OCC
BRN, MOD FRM, LAM - INTLAM, SPLTY
IP, RGH TXT

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, FRMHD,
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

COAL: BLK, MICRO, VIT, GLSSY LSTR,
V BRITT, FLOATS

MWI 10.5
VIS 65
MWO 10.5
VIS 63

SHOW #39

437u

SHOW #40

422u

SHOW #41

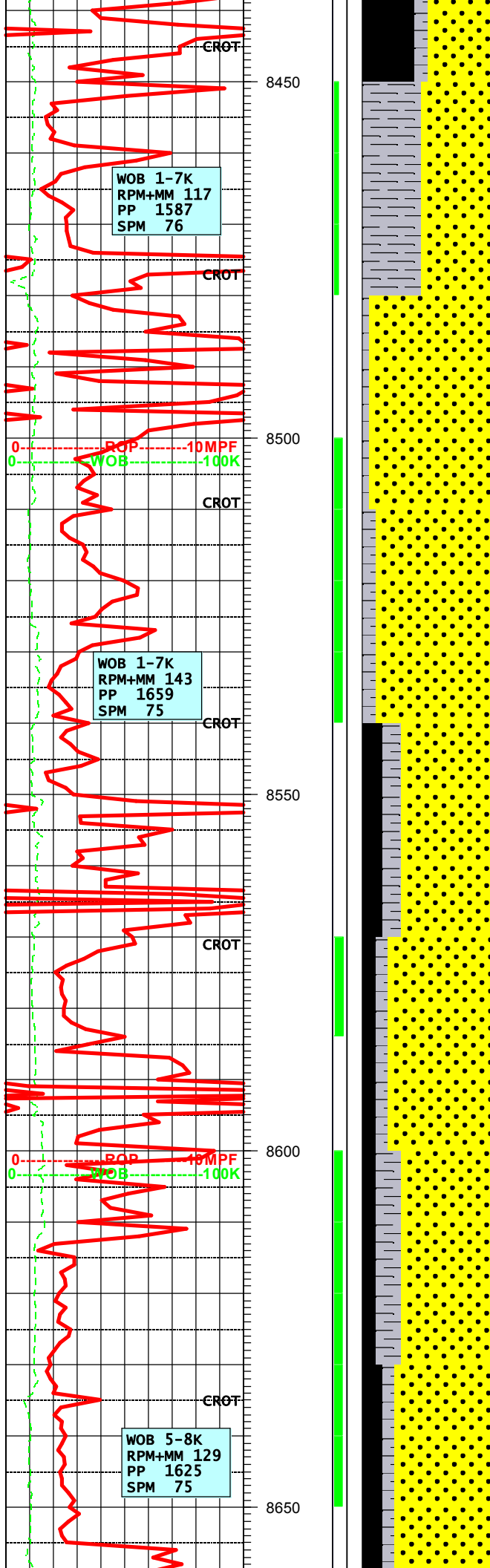
475u

439u

MWI 10.6
VIS 53
MWO 10.6
VIS 55

GAS -1000u
GAS -10%
CO2 -5%

GAS -1000u
GAS -10%
CO2 -5%



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

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

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

SANDSTONE: WH, OFF-WH, TRNSL,
CLR, MOD IND, VF-F GR, ANG, MOD
SRTD, P CONS, ABDNT LSE QTZ
GRNS, SIL CMT, SLI CALC IP, GD
INTRGR POR IP, NSFOC, TR
SILTSTONE

SANDSTONE: WH, OFF-WH, TRNSL,
CLR, VF-F, ANG, MOD SRTD, P CONS,
ABDNT LSE QTZ GRNS, SLI CALC IP,
GD INTRGR POR IP, NSFOC

SANDSTONE: BN, TN, OFF-WH, TRNSL,
CLR, MOD IND, VF-F GR, ANG, MOD
SRTD, P CONS, ABDNT LSE QTZ
GRNS, SIL CMT, CALC IP, GD INTRGR
POR IP, NSFOC

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

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

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 INTGRN POR,
SLI CALC, SLI VIS FLOR 3-5%, W/DULL
YELL FLOR

SANDSTONE: OFF-WH, TRNSL, CLR,
MOD IND, VF-F GR, ANG, MOD SRTD, P
CONS, ABDNT LSE QTZ GRNS, VIT,
FRIA IP., SIL CMT, TR LSE CALC, GD
INTRGR POR, SLI MIN FLOR, ABDNT
CARB COAL MAT

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

COAL: BLK, MICRO, VIT, GLSSY LSTR,
V BRITT, FAINT PETRO ODOR, 5-8%
FLOATERS

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

SHOW #42

2/12/2008

659u

MWI 10.6
VIS 50
MWO 10.6
VIS 54

SHOW #43

442u

643u

SCALE CHANGE
GAS 2000u
GAS 20%
CO2 5%

SHOW #44

766u

MWI 10.6+
VIS 55
MWO 10.6
VIS 54

SHOW #45

779u

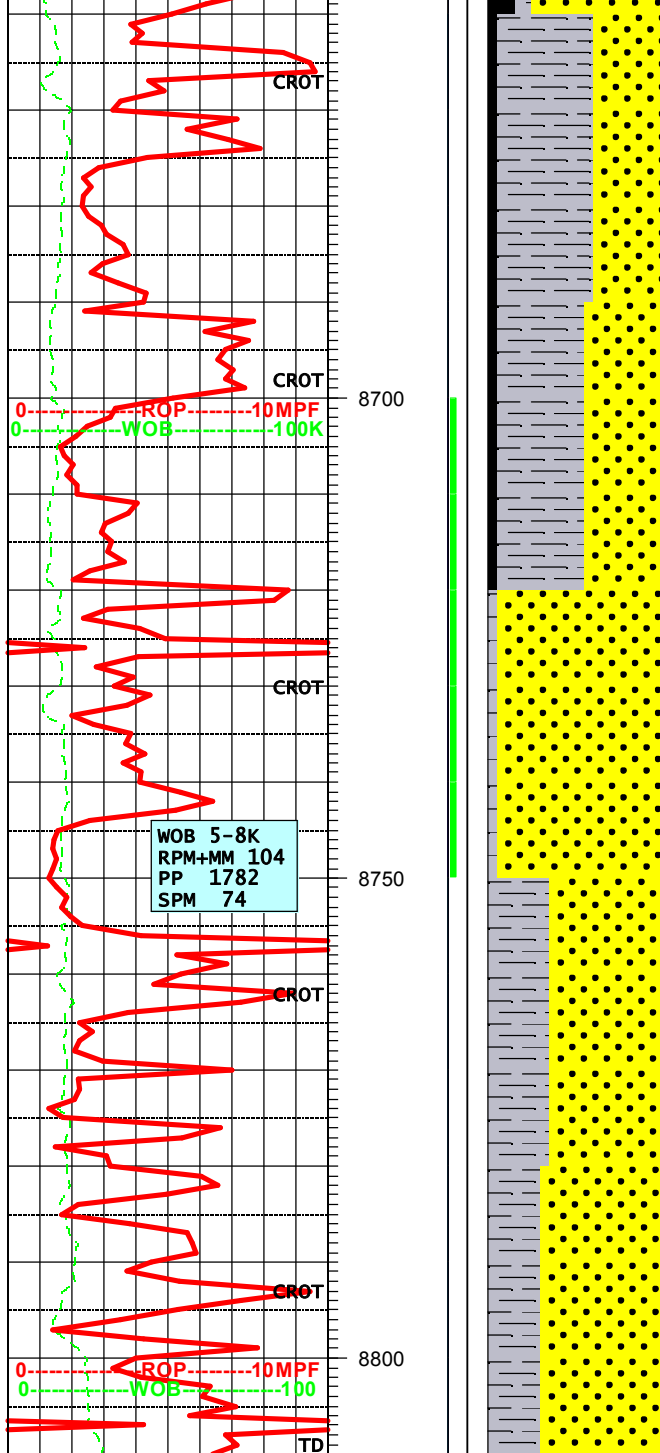
GAS 2000u
GAS 20%
CO2 5%

SHOW #46

957u

948u

MWI 10.6
VIS 52
MWO 10.6
VIS 55



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

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

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

SHALE: DK GY-GY, OCC LT GY, BRITT-FRM, PLTY, FLKY, AREN, RTHY, DULL W/RGH GRITT TXT, MICA, NON FISS, VSLI CALC
SANDSTONE: OFF-WH, LT GY, MOD IND, VVF-F, SBANG-ANG, MOD SRTD, P CONS, OCC LSE CALC GRNS, P CMTD, LSE QTZ GRNS, TR PYR, CARB/INCLS, SLI CALC, NSFOC

SAND: OFF-WH, LT GY, CLR, MOD IND, VVF-F, SBANG-ANG, MOD SRTD, P CONS, OCC LSE CALC GRNS, P CMTD, ABDNT LSE QTZ GRNS, TR PYR, CARB/INCLS, NSFOC

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

SAND: OFF-WH, LT GY, CLR, MOD IND, VVF-F, SBANG-ANG, MOD SRTD, P CONS, OCC LSE CALC GRNS, P CMTD, ABDNT LSE QTZ GRNS, TR PYR, CARB/INCLS, NSFOC

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

SAND: OFF-WH, LT GY, CLR, MOD IND, VVF-F, SBANG-ANG, MOD SRTD, P CONS, P CMTD, ABDNT LSE QTZ GRNS, TR PYR, CARB/INCLS, NSFOC
SHALE: DK GY-GY, OCC LT GY, GYBN, BRITT-FRM, PLTY, FLKY, AREN, RTHY, DULL W/RGH GRITT, MICA, NON FISS

SAND: OFF-WH, LT GY, CLR, MOD IND, VVF-F, SBANG-ANG, MOD SRTD, P CONS, P CMTD, ABDNT LSE QTZ GRNS, TR PYR, CARB/INCLS, NSFOC
SHALE: DK GY-GY, OCC LT GY, GYBN, BRITT-FRM, PLTY, FLKY, AREN, RTHY, DULL W/RGH GRITT, MICA, NON FISS

WELL TD 8810 FT @ 0616 CIRC BTMS UP @ 0812 ON 2/13/2008 NO COMMS LWD TOOL TO LWD COMPUTER

SHOW #47

1053u

1151u

GAS-----2000u
GAS-----20%
CO2-----5%

SHOW #48

1000u

MWI 10.6
VIS 52
MWO 10.6
VIS 55

415u

GAS-----2000u
GAS-----20%
CO2-----5%

526u

8700

8750

8800

8850

