

SANDRIDGE ENERGY: SALLY 3420 1-12H HORIZONTAL

**GAS**

KD

**GAS SCALE  
0-200 UNITS**

CONN GAS 84  
UNITS

BG GAS 26 UNITS

KD

**9 5/8"  
CASING SET  
@ 700' MD**

**% WELL BORE LITHOLOGY ABOVE**

**ROP-BLUE  
GAMMA-RED**

ROP (min/ft)  
MWD Gamma (API)

ROP (min/ft)  
MWD Gamma (API)

**SANDRIDGE ENERGY, INC**  
Sally 3420 1-12H  
SEC 12-34S-20W  
COMANCHE CO, KS  
GR 1,788' KB 1,808'  
API# 15033216470100

**MISSISSIPPI  
UNCONFORMITY**  
5,348' MD 5,140'  
(-3,334')

MD 5230 TVD 5071.04  
Az 177.7° Inc 49.8°

MD 5325 TVD 5129.07  
Az 178.7° Inc 56.3°

MD 5262 TVD 5091.53  
Az 178.1° Inc 50.6°

MD 5357 TVD 5140.00  
Az 179.2° Inc 60.0°

Scale Change  
5100  
MD 5198 TVD 5050.52  
Az 178.8° Inc 50.4°

Scale Change  
5160  
MD 5293 TVD 5110.63  
Az 177.8° Inc 53.3°

**SCALE  
CHANGE  
TO 5,060'  
TVD THRU  
5,140' TVD**

**SCALE  
CHANGE TO  
5,120' TVD  
THRU 5,200'  
TVD**

CHT: OFF WH-OPQ, SME WH, TRANSLUCENT  
SHARP EDGES, UNWEATHERED, SH: MED GR  
DRK GY, PRED BLKY, MOD FRM TO FRM, LS  
OFF WH, MICROFN-V FN XLN, BLKY, MOD FR  
FRACS, PR YEL FLOR, GD BLU STRM CUT, D

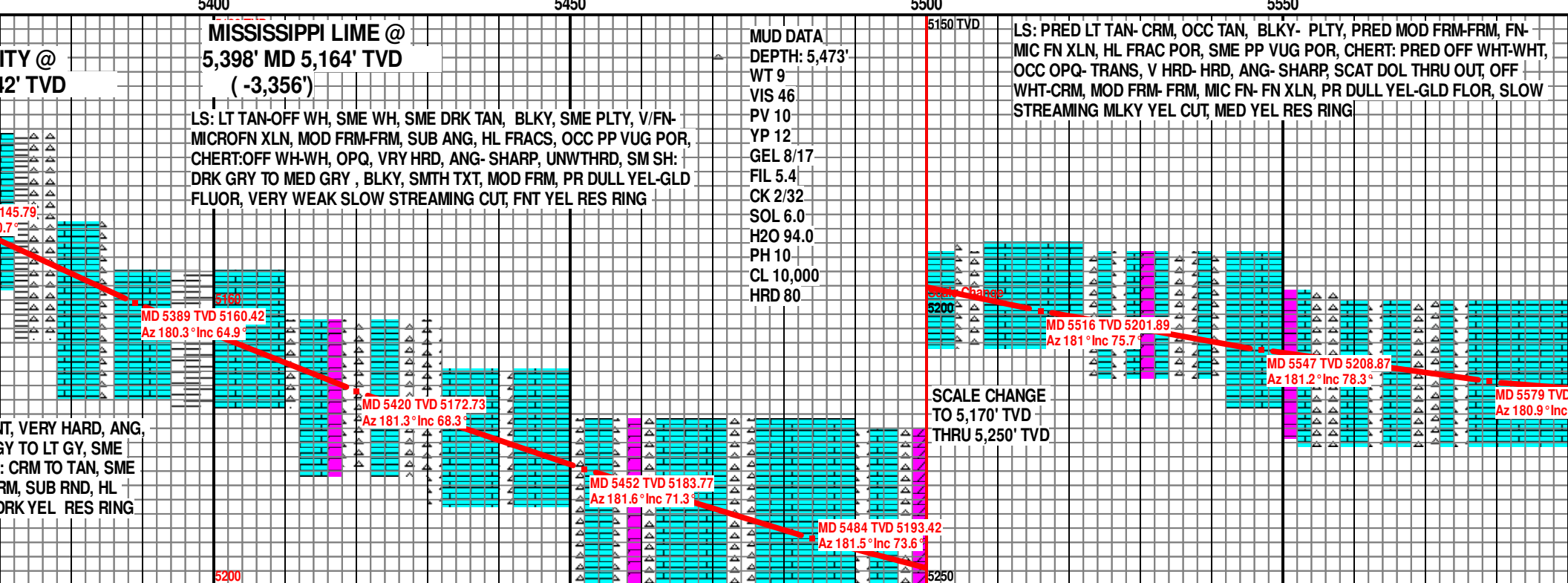
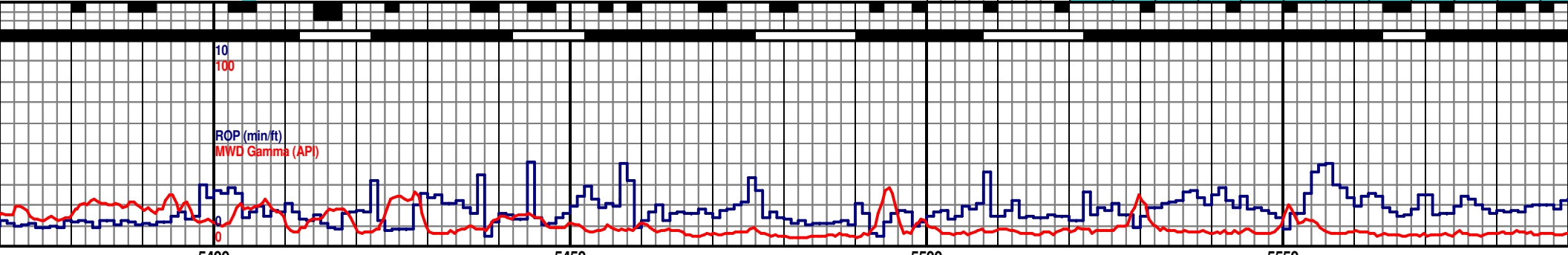
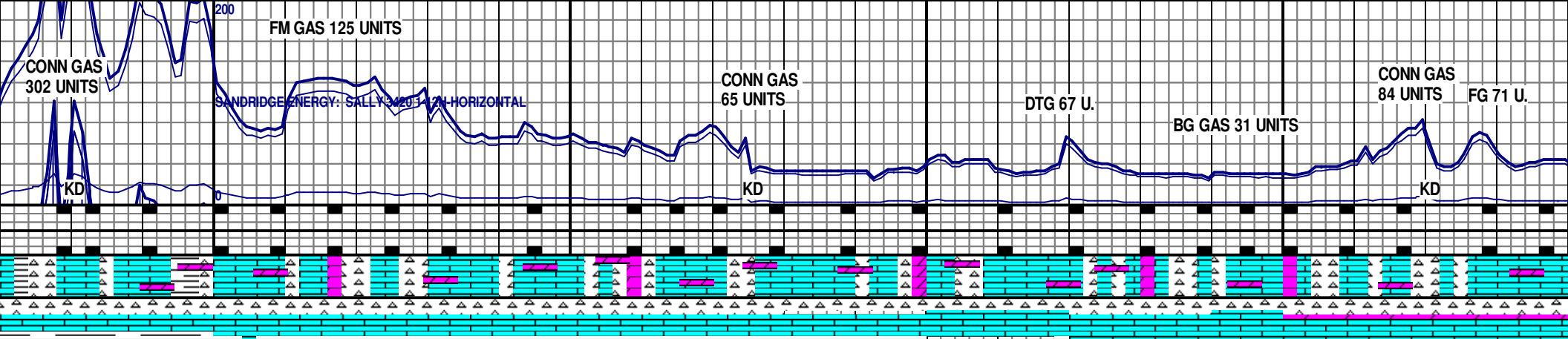
TVD SCALE= 2'/DIVISION

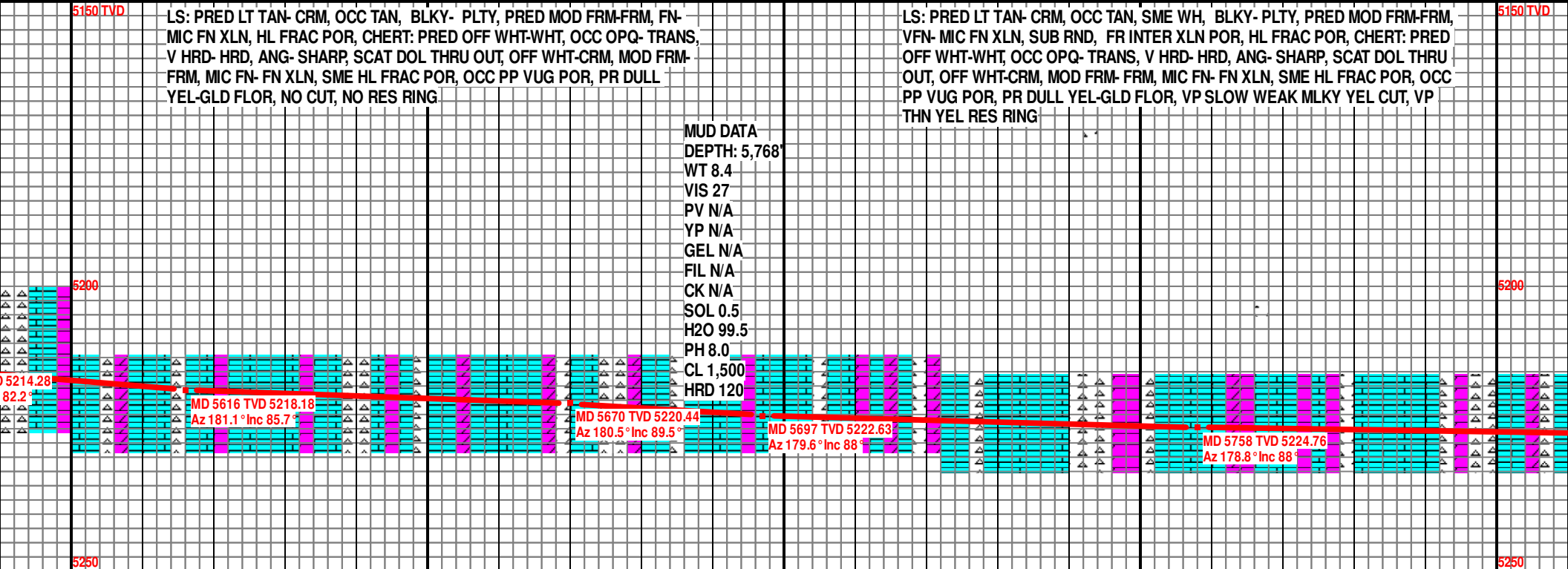
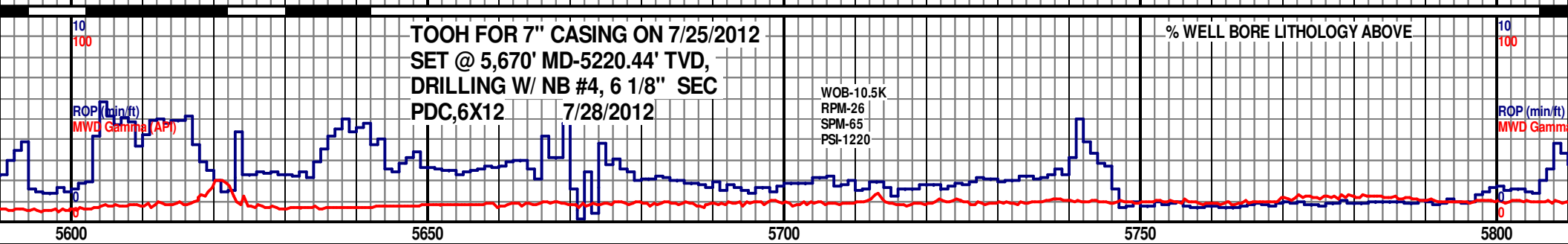
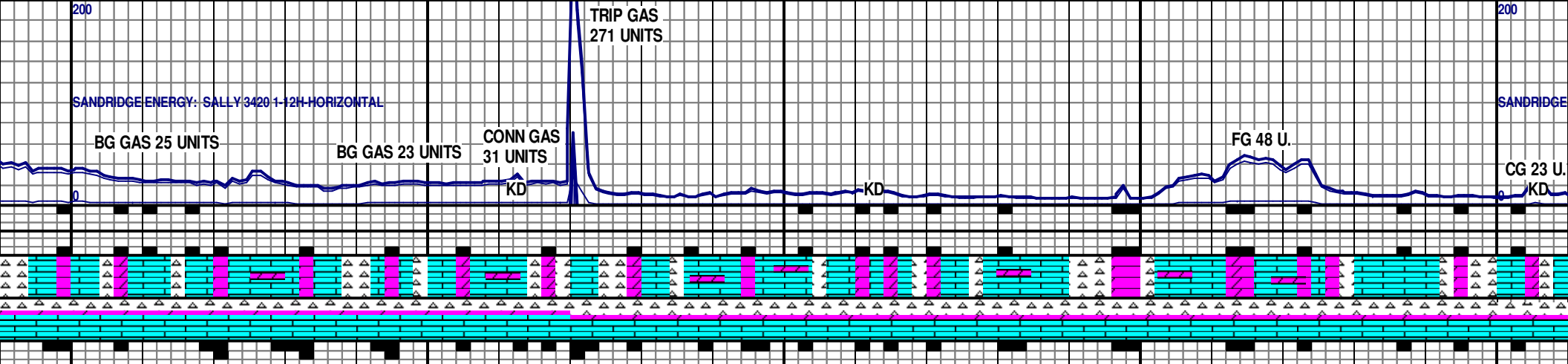
TVD SCALE= 2'/DIVISION

5500

5140

5200





ENERGY: SALLY3420-1-12H-HORIZONTAL

SANDRIDGE ENERGY: SALLY3420-1-

FG 56 U.

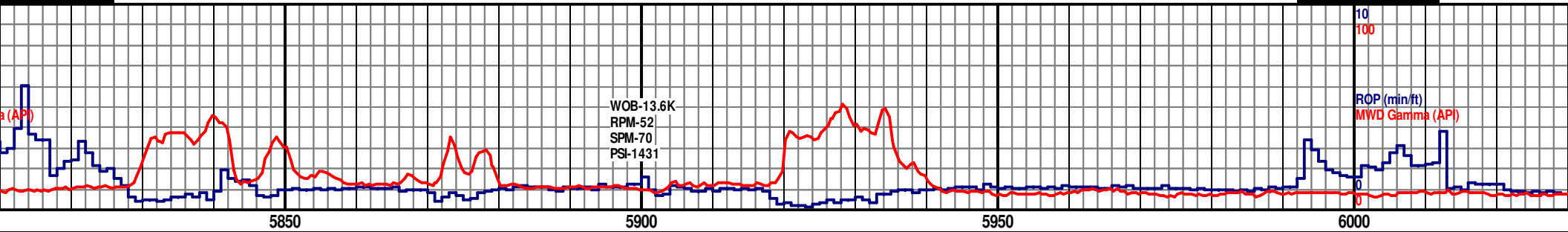
FG 44 U.

FG 890 U.

CG 28 U.

KD

KD



LS: PRED OFF WHT-WHT, SME CRM- LT TAN, BLKY- PLTY, PRED MOD FRM-FRM, FN- MIC FN XLN, HL FRAC POR, CHERT: PRED OFF WHT-WHT, OCC TRANS-OPQ, V HRD- HRD, ANG- SHARP, DOL: OFF WHT-CRM, PRED MOD FRM-FRM, MIC FN- FN XLN, SME SUCRO, SME HL FRAC POR, PR DULL YEL-GLD FLOR, VP SLOW WEAK MLKY YEL CUT, VP THN YEL RES RING

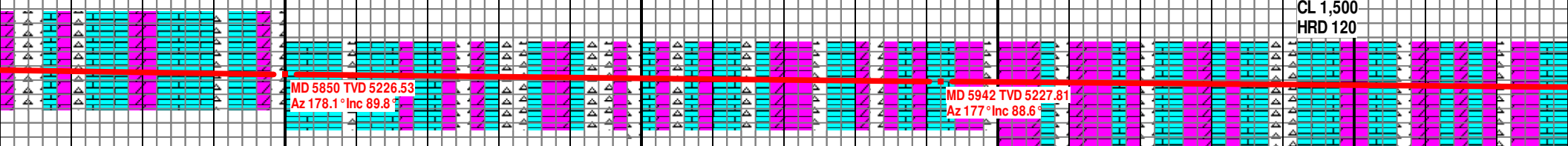
DOL: PRED OFF WHT-WHT, OCC OFF WHT- CRM, BLKY- PLTY, MOD FRM- FRM, MIC FN- V FN XLN, SME SUCRO, HL FRAC POR, CHERT: PRED OFF WHT-WHT, OCC OPQ- TRANS, V HRD- HRD, SUB ANG- ANG, SME ANG- SHARP, LS: PRED OFF WHT-WHT, SME CRM- LT TAN, BLKY- PLTY, PRED MOD FRM-FRM, FN- MIC FN XLN, HL FRAC POR, FR BRI YEL-GLD FLOR, FR WH BLU CUT, FR DULL YELL RES RING

DOL: PRED OFF WHT-WHT, SME SUCRO, HL FRAC PO ANG- ANG, SME ANG- SHA MOD FRM-FRM, FN- MIC FN RES RING

MUD DATA  
 DEPTH: 5,947'  
 WT 8.5  
 VIS 28  
 PV N/A  
 YP N/A  
 GEL N/A  
 FIL N/A  
 CK N/A  
 SOL 0.5  
 H2O 99.5  
 PH 9.5  
 CL 1,500  
 HRD 120

MD 5850 TVD 5226.53  
 Az 178.1° Inc 89.8°

MD 5942 TVD 5227.81  
 Az 177° Inc 88.6°

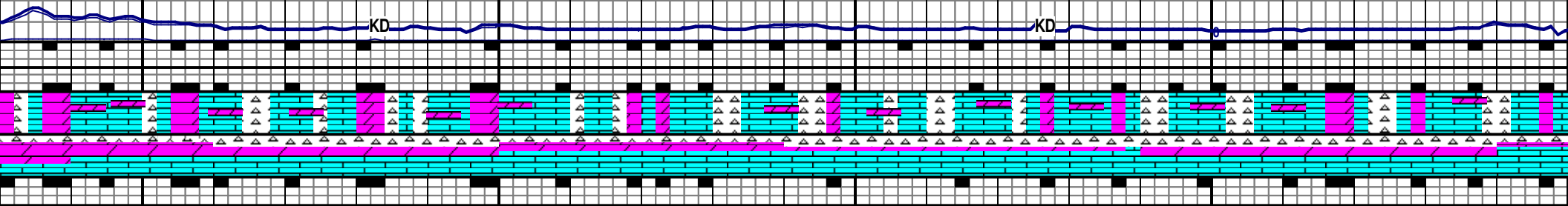


5250

12H-HORIZONTAL

SANDRIDGE ENERGY: SALLY3420-1-12H-HORIZONTAL

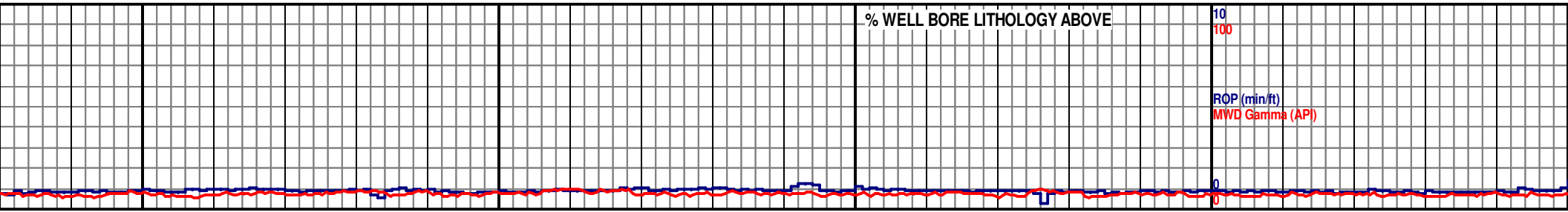
CONN GAS  
18 UNITS



% WELL BORE LITHOLOGY ABOVE

10  
100

ROP (min/ft)  
MWD Gamma (API)



6050

6100

6150

6200

6250

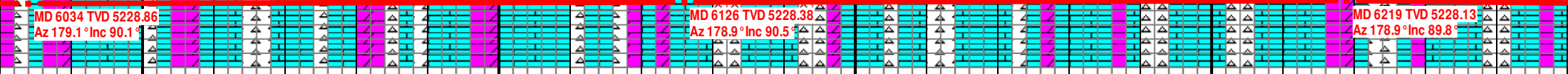
LS: PRED OFF WHT-WHT, BLKY- PLTY, MOD FRM- FRM, MIC FN- V FN XLN,  
 R, CHERT: PRED OFF WHT-WHT, OCC OPQ- TRANS, V HRD- HRD, SUB  
 RP, LS: PRED OFF WHT-WHT, SME CRM- LT TAN, BLKY- PLTY, PRED  
 XLN, HL FRAC POR, FR BRI YEL-GLD FLOR, FR BLU CUT, FR YEL

LS: PRED OFF WHT-WHT, BLKY- PLTY, PRED MOD FRM-FRM, VFN- MIC FN XLN, HL  
 FRAC POR, SUB RND-SUB ANG, FR INTERXLN POR, CHERT: PRED OFF WHT-WHT,  
 OCC TRANS-OPQ, V HRD- HRD, ANG- SHARP, UNWETHRD, DOL: OFF WHT-CRM,  
 PRED MOD FRM- FRM, MIC FN- VFN XLN, SME HL FRAC POR, PR-FR DULL YEL-GLD  
 FLOR, FR BLU CUT, THIN YEL RES RING

LS: PRED OFF WHT-WHT, BLKY- PLTY, P  
 FRAC POR, SUB RND-SUB ANG, FR INTER  
 OCC TRANS-OPQ, V HRD- HRD, ANG- SH  
 PRED MOD FRM- FRM, MIC FN- VFN XLN,  
 FLOR, FR BLU CUT, THIN YELL RES RING

5150 TVD

5200



MD 6034 TVD 5228.86  
 Az 179.1° Inc 90.1°

MD 6126 TVD 5228.38  
 Az 178.9° Inc 90.5°

MD 6219 TVD 5228.13  
 Az 178.9° Inc 89.8°

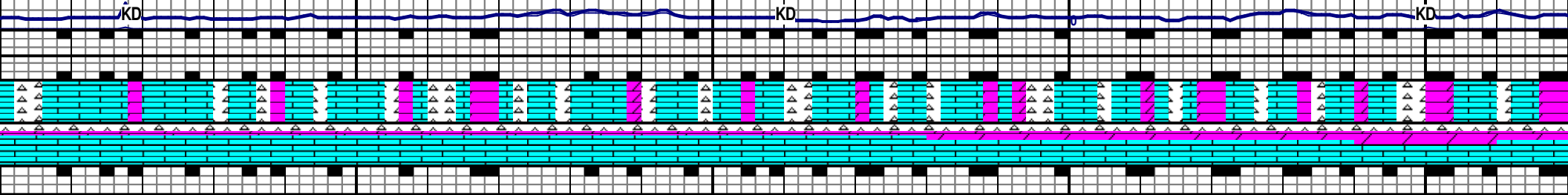
5250

CONN GAS  
26 UNITS

CONN GAS  
19 UNITS

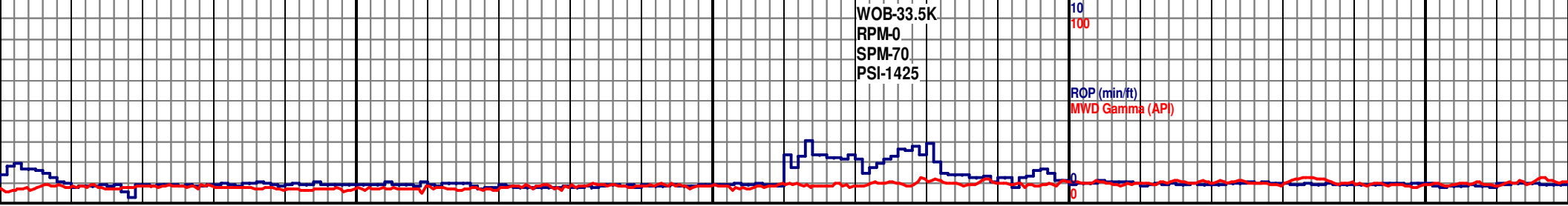
SANDRIDGE ENERGY: SALLY3420-1-12H-HORIZONTAL

CONN GAS  
21 UNITS



WOB-33.5K  
RPM-0  
SPM-70  
PSI-1425

ROP (min/ft)  
MWD Gamma (API)



PRED MOD FRM-FRM, VFN- MIC FN XLN, HL  
RXLN POR, CHERT: PRED OFF WHT-WHT,  
DARP, UNWETHRD, DOL: OFF WHT-CRM,  
SME HL FRAC POR, PR-FR DULL YEL-GLD

LS: PRED OFF WHT-WHT, BLKY- PLTY, PRED MOD FRM-FRM, VFN- MIC FN XLN, HL  
FRAC POR, SUB RND-SUB ANG, FR INTERXLN POR, CHERT: PRED OFF WHT-WHT,  
OCC TRANS-OPQ, V HRD- HRD, ANG- SHARP, UNWETHRD, DOL: OFF WHT-CRM,  
PRED MOD FRM-FRM, MIC FN- VFN XLN, SME HL FRAC POR, PR-FR DULL YEL-GLD  
FLOR, PR FNT YEL CUT, PR FNT YEL RES RING

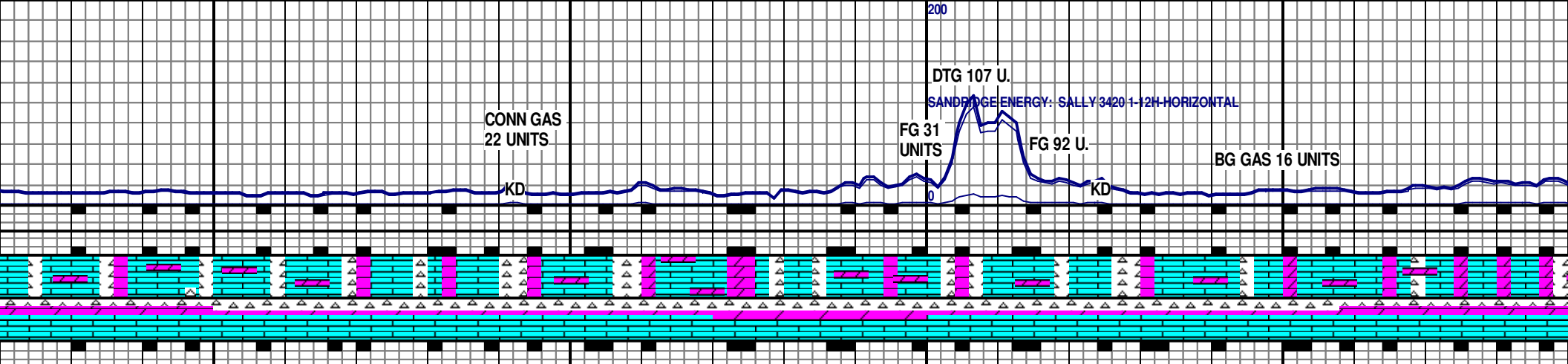
LS: PRED WHT- OFF WHT, PLTY- BLKY, PRED MOD FRM-FRM  
FRAC POR, OCC SUB RND-SUB ANG, CHERT: PRED OFF WH  
V HRD- HRD, ANG- SHARP, DOL: OFF WHT-CRM, PRED MOD  
XLN, SME HL FRAC POR, PR-FR DULL YEL-GLD FLOR, PR F  
RES RING



MD 6311 TVD 5229.42  
Az 178.6° Inc 88.6°

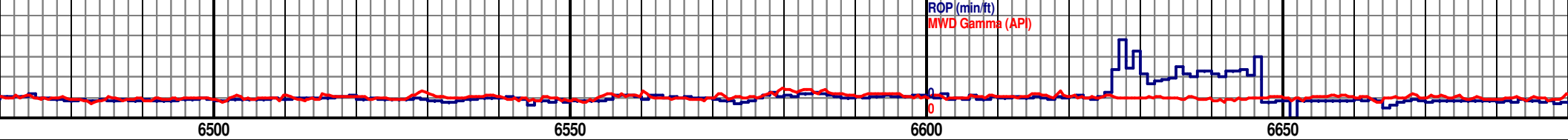
MD 6402 TVD 5230.37  
Az 179.6° Inc 90.2°

5250



WOB-23.4K  
RPM-50  
SPM-72  
PSI-1792

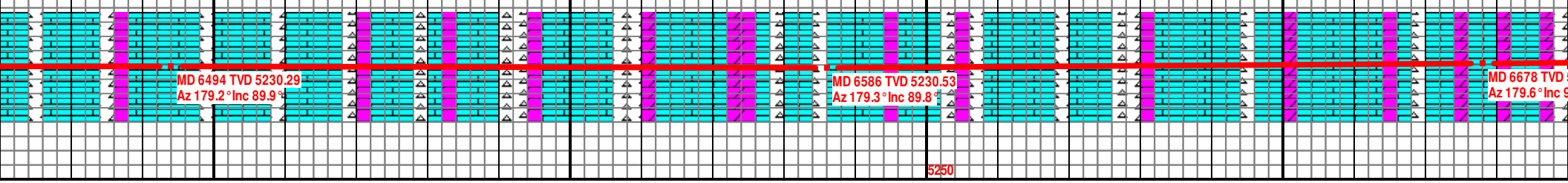
7/29/2012

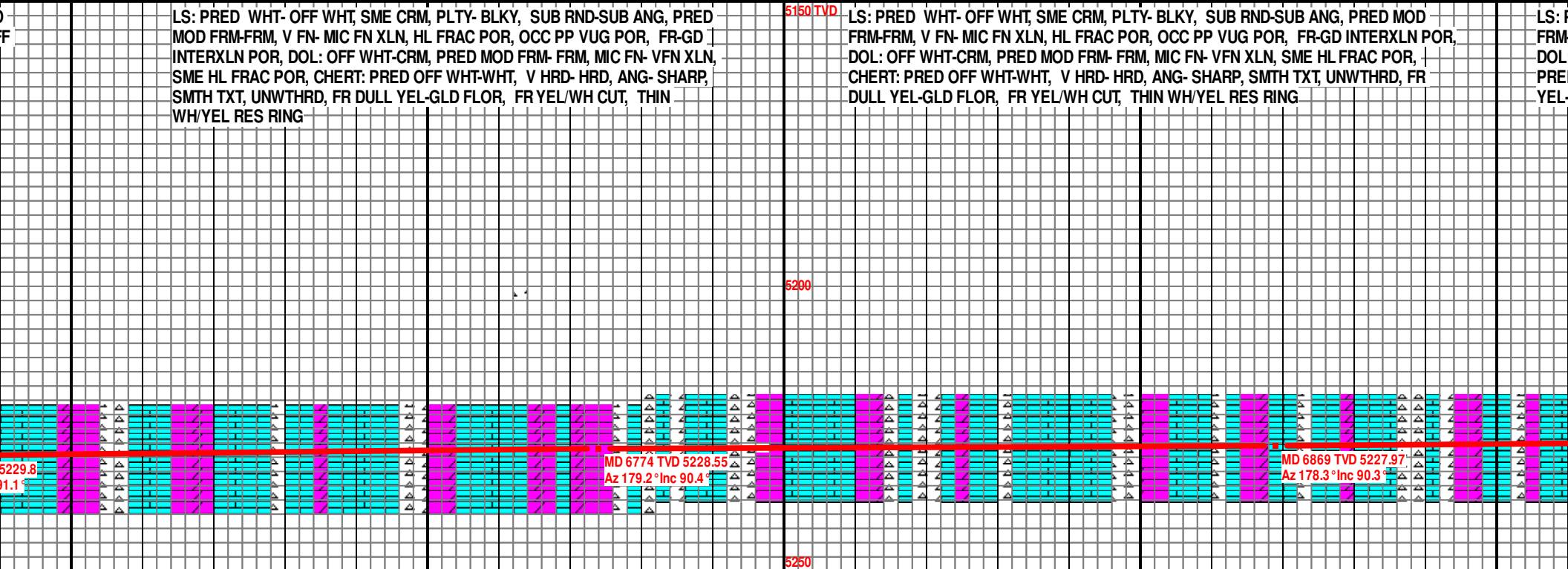
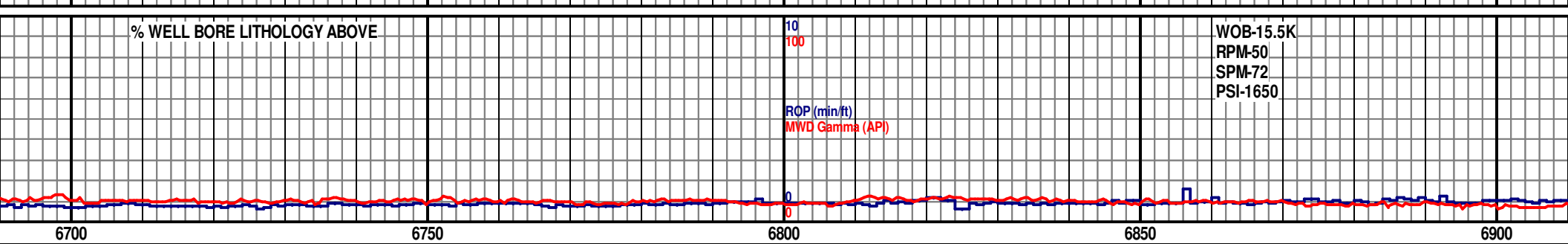
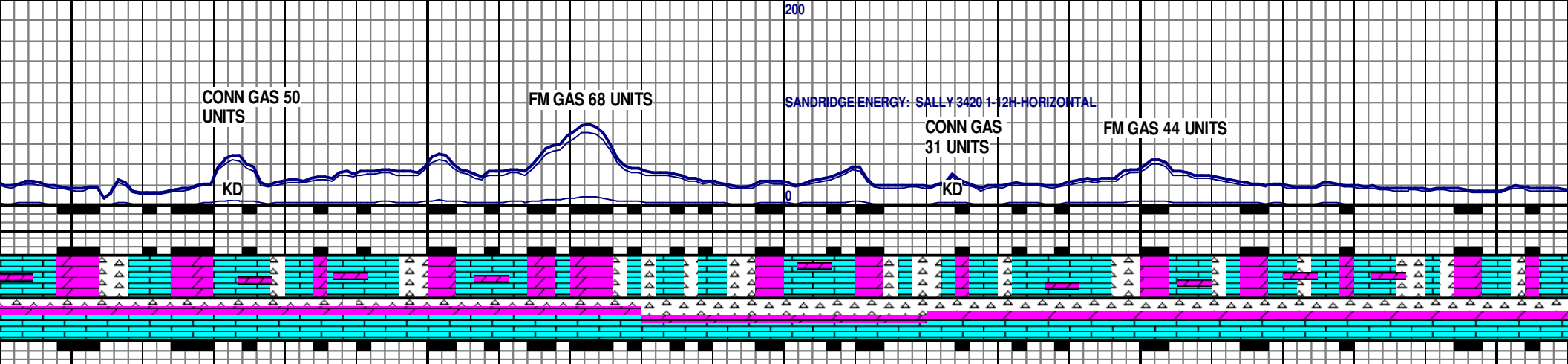


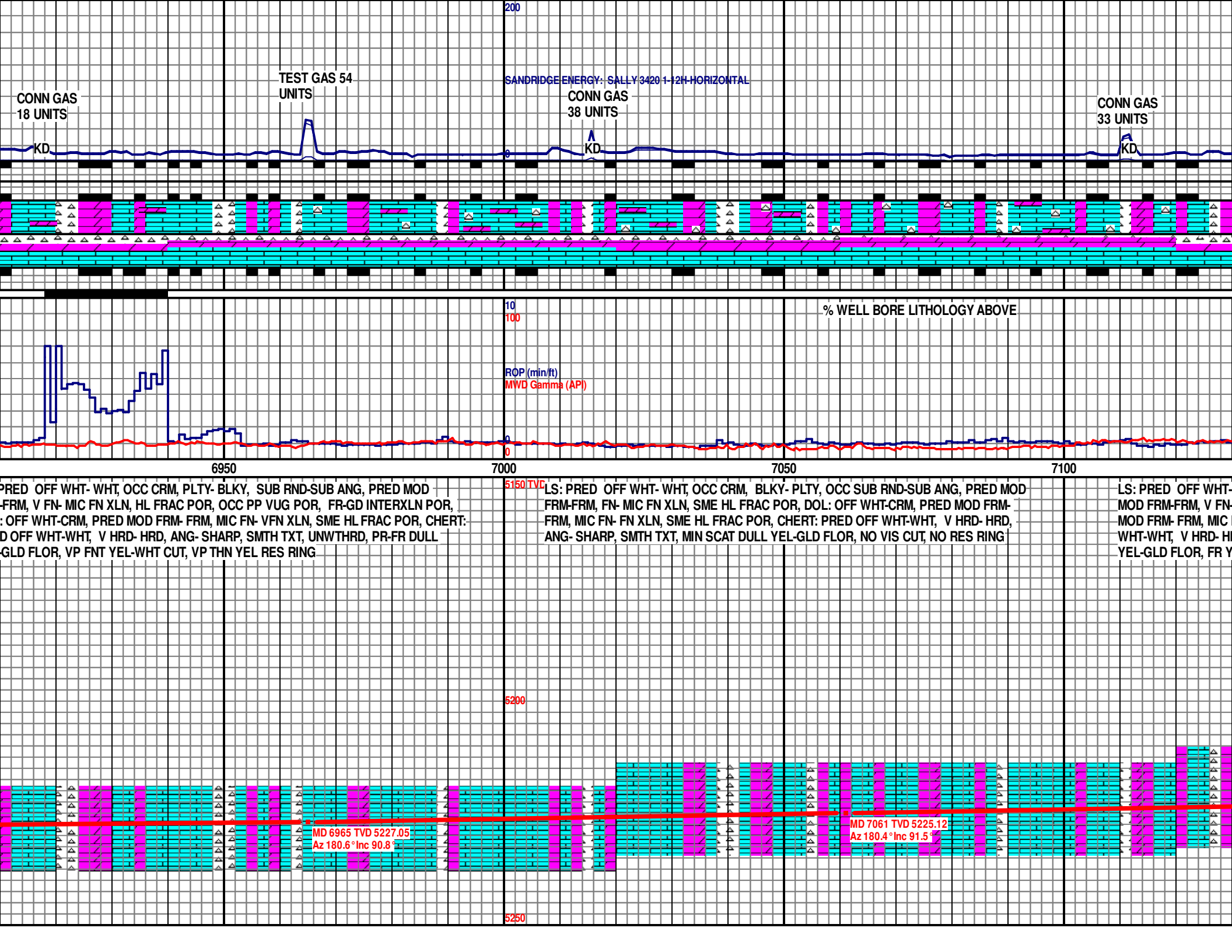
M, FN- MIC FN XLN, HL  
HT-WHT, TR TRANS-OPQ,  
FRM- FRM, MIC FN- FN  
FNT YEL CUT, PR FNT YEL

LS: PRED WHT- OFF WHT, PLTY- BLKY, PRED MOD FRM-FRM, V FN- MIC FN XLN, HL  
FRAC POR, SME SUB RND-SUB ANG, CHERT: PRED OFF WHT-WHT, TR CRM- LT TAN,  
V HRD- HRD, ANG- SHARP, DOL: OFF WHT-CRM, PRED MOD FRM- FRM, MIC FN- FN  
XLN, SME HL FRAC POR, PR DULL YEL-GLD FLOR, PR FNT YEL CUT, PR FNT YEL  
RES RING

LS: PRED WHT- OFF WHT, PLTY- BLKY, SME SUB RND-SUB ANG, PRED MOD  
FRM-FRM, V FN- MIC FN XLN, HL FRAC POR, FR-GD INTERXLN POR, DOL: OF  
WHT-CRM, PRED MOD FRM- FRM, MIC FN- VFN XLN, SME HL FRAC POR,  
CHERT: PRED OFF WHT-WHT, V HRD- HRD, ANG- SHARP, SM TXT, FR DULL  
YEL-GLD FLOR, FR YEL/WH CUT, THIN WH/YEL RES RING







CONN GAS  
18 UNITS

TEST GAS 54  
UNITS

SANDRIDGE ENERGY: SALLY3420-1-12H-HORIZONTAL  
CONN GAS  
38 UNITS

CONN GAS  
33 UNITS

KD

KD

KD

% WELL BORE LITHOLOGY ABOVE

ROP (min/ft)  
MWD Gamma (API)

6950

7000

7050

7100

PRED OFF WHT- WHT, OCC CRM, PLTY- BLKY, SUB RND-SUB ANG, PRED MOD  
FRM-FRM, V FN- MIC FN XLN, HL FRAC POR, OCC PP VUG POR, FR-GD INTERXLN POR,  
: OFF WHT-CRM, PRED MOD FRM- FRM, MIC FN- VFN XLN, SME HL FRAC POR, CHERT:  
D OFF WHT-WHT, V HRD- HRD, ANG- SHARP, SMTH TXT, UNWTHRD, PR-FR DULL  
GLD FLOR, VP FNT YEL-WHT CUT, VP THN YEL RES RING

5150 TVC LS: PRED OFF WHT- WHT, OCC CRM, BLKY- PLTY, OCC SUB RND-SUB ANG, PRED MOD  
FRM-FRM, FN- MIC FN XLN, SME HL FRAC POR, DOL: OFF WHT-CRM, PRED MOD FRM-  
FRM, MIC FN- FN XLN, SME HL FRAC POR, CHERT: PRED OFF WHT-WHT, V HRD- HRD,  
ANG- SHARP, SMTH TXT, MIN SCAT DULL YEL-GLD FLOR, NO VIS CUT, NO RES RING

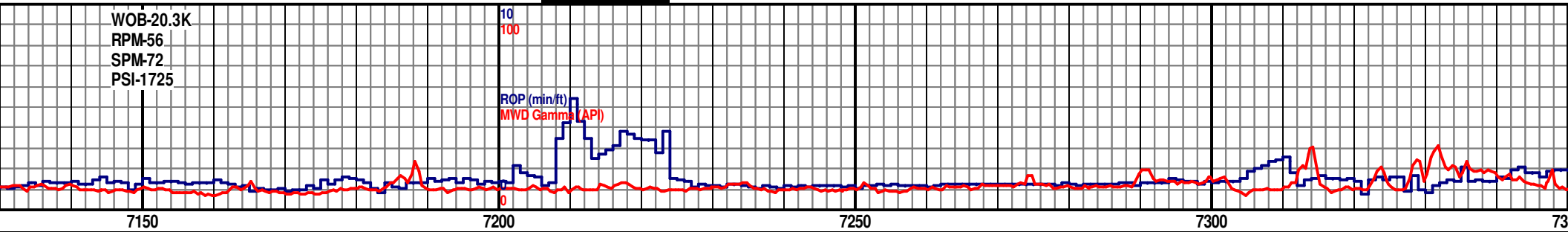
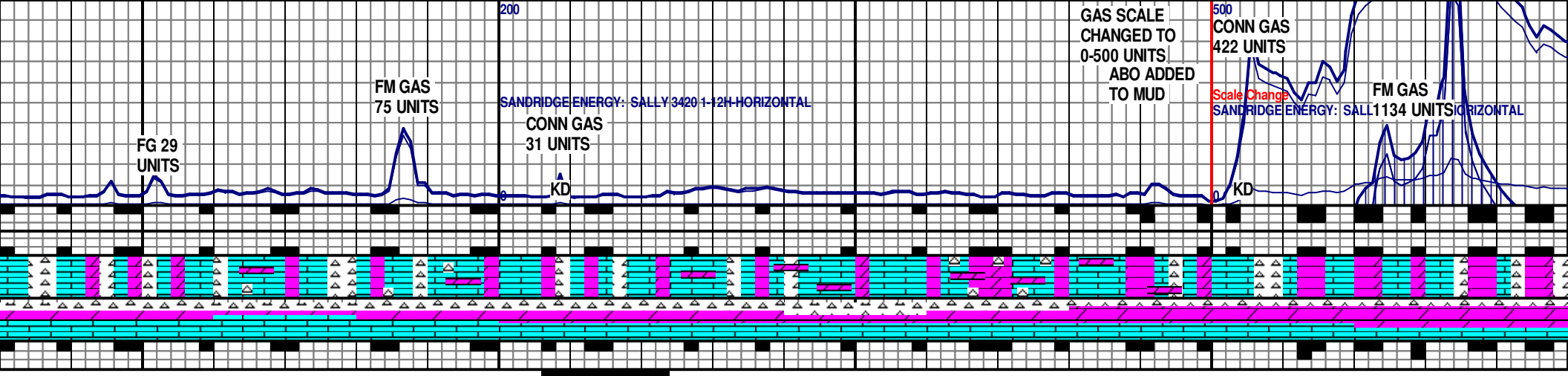
LS: PRED OFF WHT-  
MOD FRM-FRM, V FN-  
MOD FRM- FRM, MIC  
WHT-WHT, V HRD- HRD,  
YEL-GLD FLOR, FR Y

5290

MD 6965 TVD 5227.05  
Az 180.6° Inc 90.8°

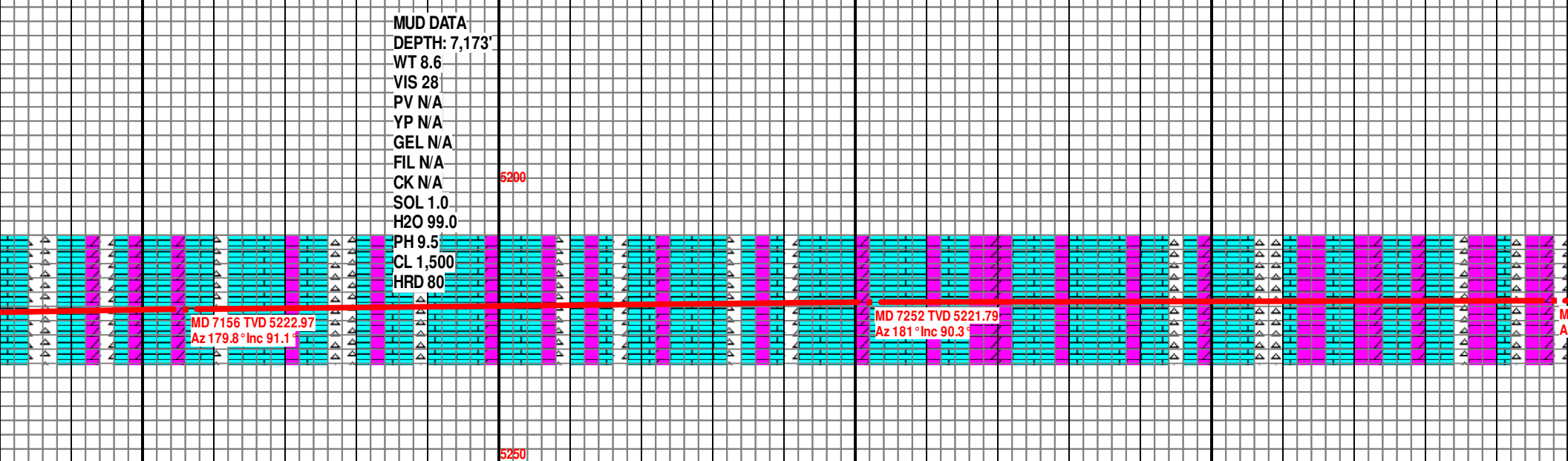
MD 7061 TVD 5225.12  
Az 180.4° Inc 91.5°

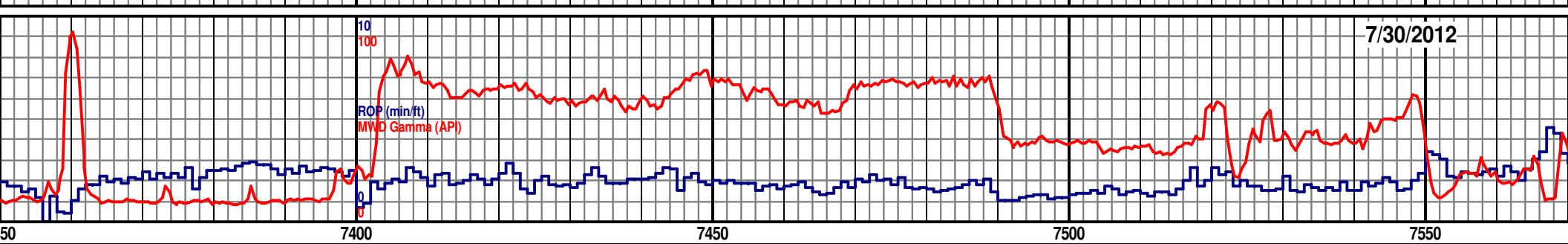
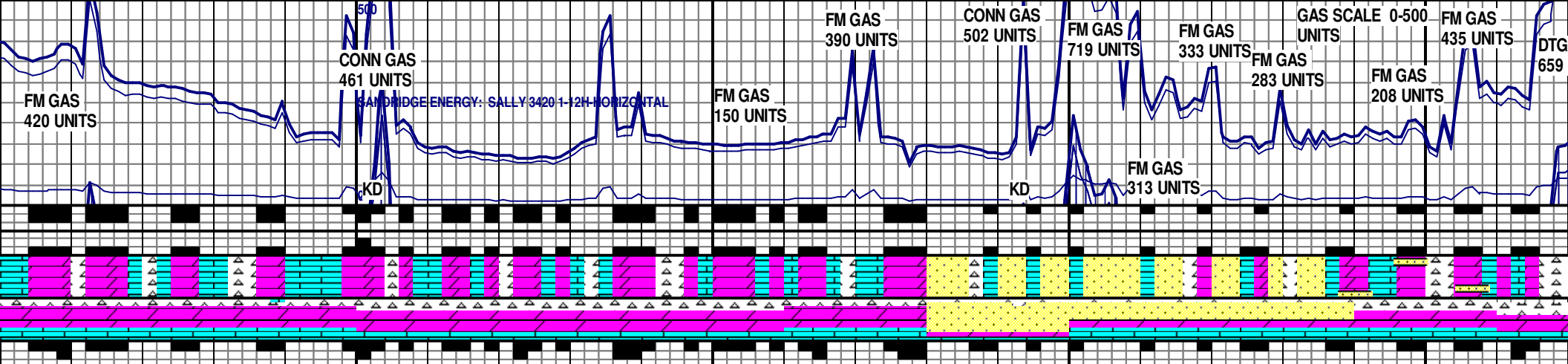
5250



WHT, TR CRM, BLKY-PLTY, SME SUB RND-SUB ANG, PRED OFF WHT-WHT, TR CRM, BLKY-PLTY, OCC SUB RND-SUB ANG, PRED MOD FRM-FRM, V FN- MIC FN XLN, HL FRAC POR, DOL: OFF WHT-WHT, TR CRM, BLKY-PLTY, OCC SUB RND-SUB ANG, PRED MOD FRM-FRM, V FN- MIC FN XLN, HL FRAC POR, DOL: OFF WHT-WHT, MOD FRM-FRM, MIC FN- V FN XLN, SCAT HL FRAC POR, CHERT: PRED OFF WHT-WHT, V HRD- HRD, ANG- SHARP, SME SMTH TXT, MIN SCAT DULL YEL-GLD FLOR, FR YEL CUT, FR DULL YELL RES RING

MUD DATA  
DEPTH: 7,173'  
WT 8.6  
VIS 28  
PV N/A  
YP N/A  
GEL N/A  
FIL N/A  
CK N/A  
SOL 1.0  
H2O 99.0  
PH 9.5  
CL 1,500  
HRD 80

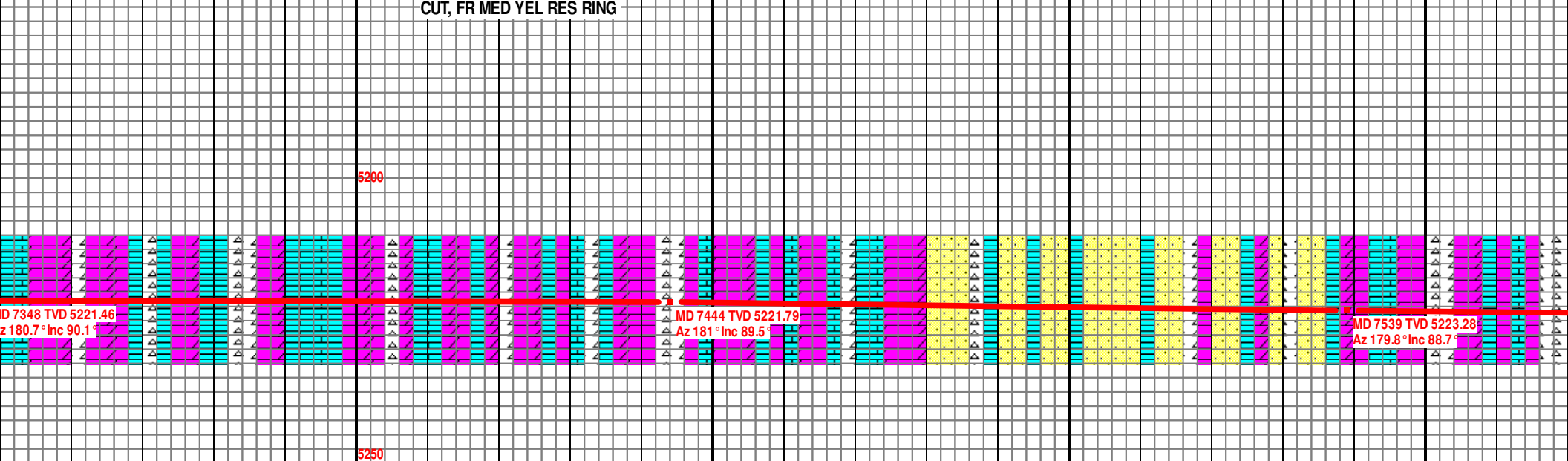


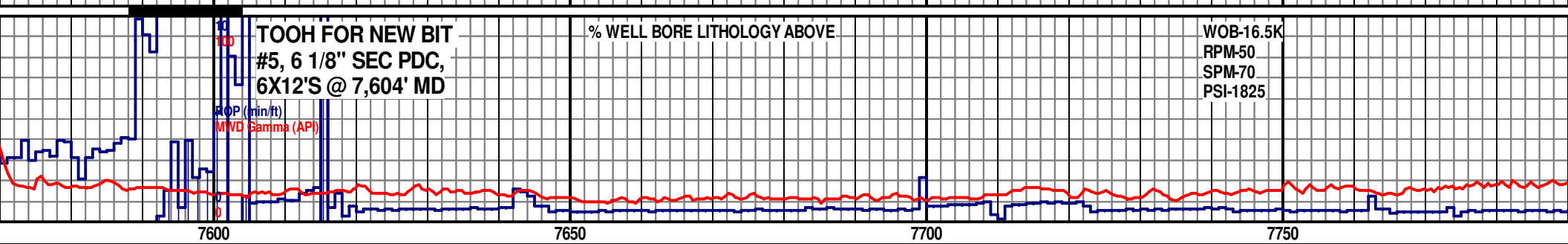
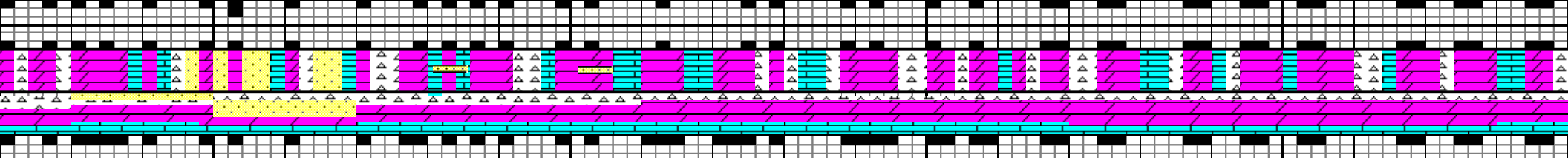
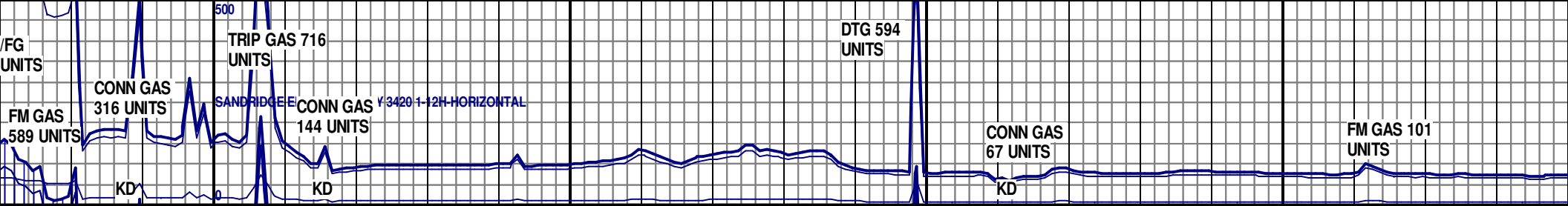


BLKY- PLTY, OCC SUB RND-SUB ANG, LN, HL FRAC POR, DOL: OFF WHT-WHT, CAT HL FRAC POR, CHERT: PRED OFF P, SME SMTH TXT, MIN SCAT DULL CUT, GD DULL YELL RES RING

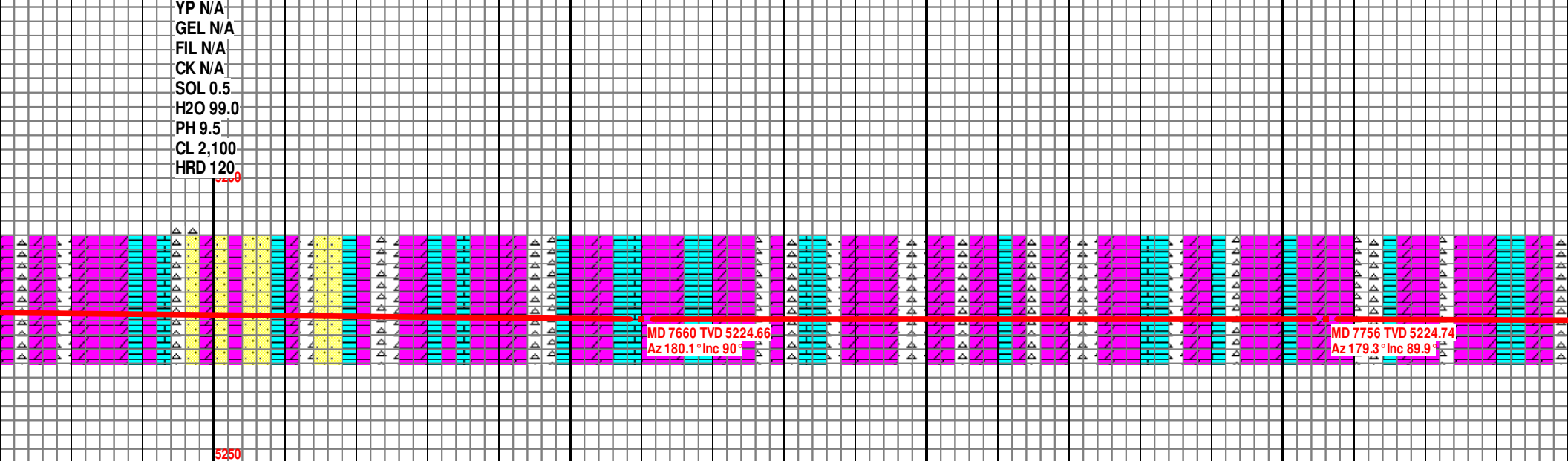
DOL: OFF WHT-WHT, PRED MOD FRM- FRM, MIC FN- V FN XLN, SCAT HL FRAC POR, LS: PRED OFF WHT- WHT, TR CRM, BLKY- PLTY, SME SUB RND-SUB ANG, PRED MOD FRM-FRM, V FN- MIC FN XLN, HL FRAC POR, CHERT: PRED OFF WHT-WHT, V HRD- HRD, ANG- SHARP, SME SMTH TXT, SS: PRED UNCONSOL MED GRAINS, TRANS-OPQ, LT TAN, MIN SCAT DULL YEL-GLD FLOR, FR BLU- BLU WHT CUT, FR MED YEL RES RING

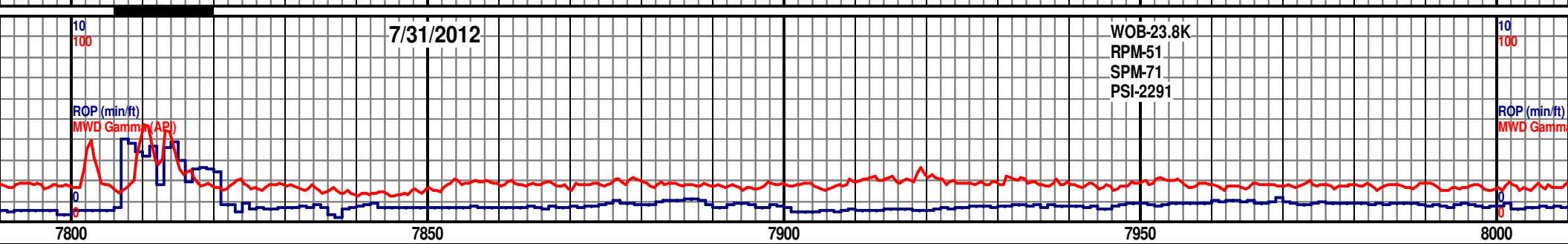
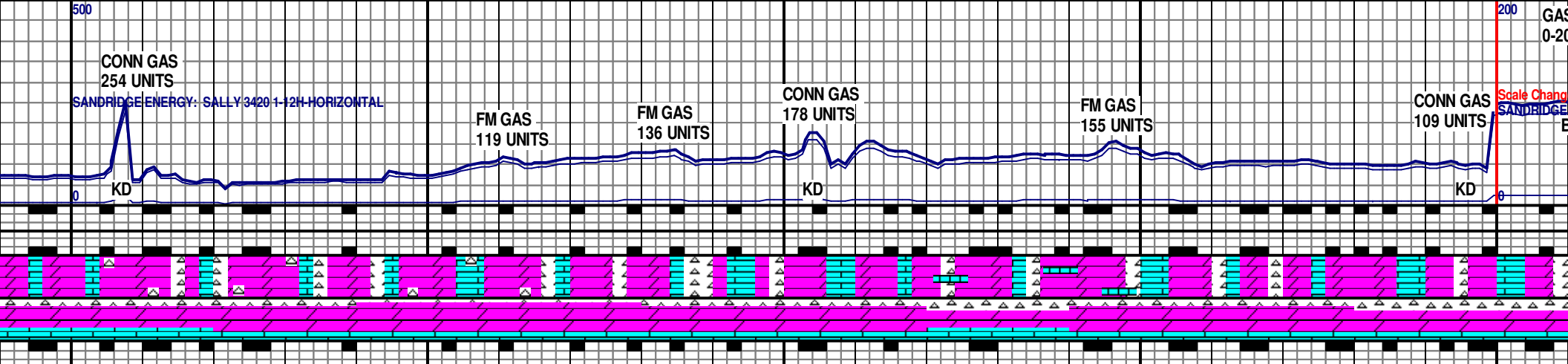
DOL: OFF WHT-WHT, PRED MOD FRM- FRM, MIC FN- V FN XLN, LS: PRED OFF WHT- WHT, PLTY- BLKY, TR SUB RND-SUB ANG, MIC FN- V FN XLN, HL FRAC POR, CHERT: PRED OFF WHT-WHT, SHARP, SS: PRED UNCONSOL MED GRAINS, TRANS-OPQ, LT TAN, YEL-GLD FLOR, FR BLU- BLU WHT CUT, FR MED WH/YEL RES RING





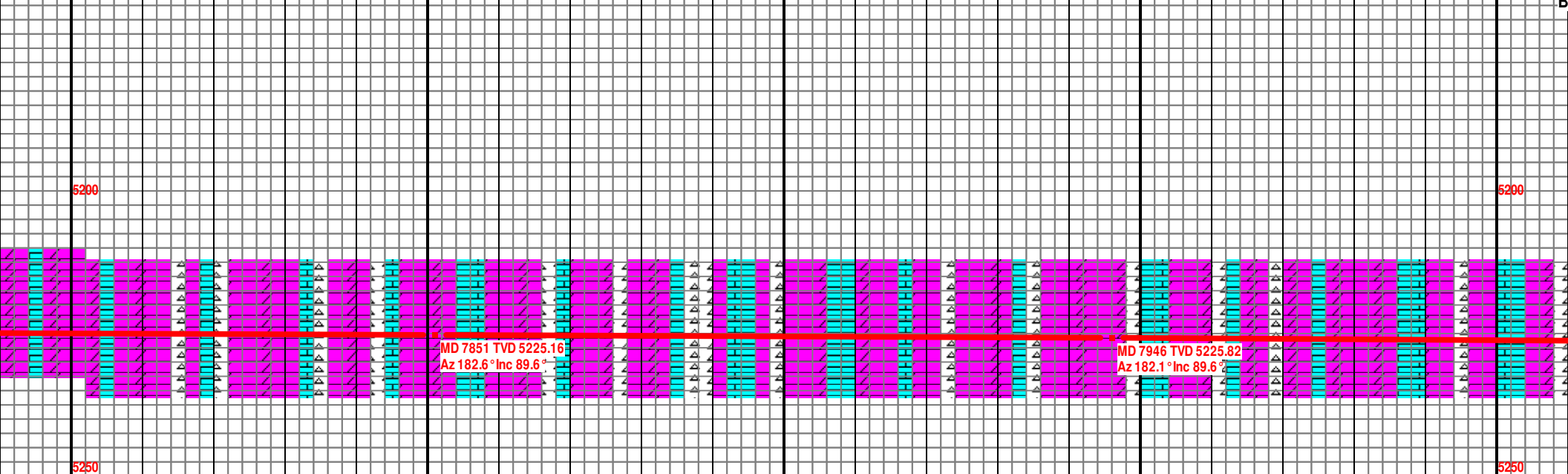
SCAT HL FRAC POR, PRED MOD FRM- FRM, V HRD- HRD, ANG- N, MIN SCAT DULL ING	<b>MUD DATA</b> DEPTH: 7,604' WT 8.5 VIS 28 PV N/A YP N/A GEL N/A FIL N/A CK N/A SOL 0.5 H2O 99.0 PH 9.5 CL 2,100 HRD 120	DOL: OFF WHT-WHT, PRED MOD FRM- FRM, SME SFT, MIC FN- V FN XLN, BLKY, SUB RND, SCAT HL FRAC POR, LS: PRED OFF WHT- WHT, BLKY, SUB RND-SUB ANG, PRED MOD FRM- FRM, MIC FN- V FN XLN, HL FRAC POR, CHERT: PRED OFF WHT-WHT, SME OPQ, V HRD- HRD, ANG- SHARP, SS: PRED UNCONSOL MED GRAINS, TRANS-OPQ, LT TAN, MIN SCAT DULL YEL-GLD FLOR, FR BLU- BLU WHT CUT, FR MED WH/YEL RES RING	DOL: OFF WHT-WHT, MOD FRM- FRM, MIC FN- V FN XLN, BLKY, OCC SUB RND, SC FRAC POR, LS: PRED OFF WHT- WHT, BLKY- PLTY, SUB RND-SUB ANG, PRED M FRM- FRM, MIC FN- V FN XLN, HL FRAC POR, CHERT: PRED OFF WHT-WHT, V HRD- ANG- SHARP, MIN SCAT DULL YEL-GLD FLOR, FR MLKY BLU- BLU WHT CUT, MED RES RING
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AT HL 5150 TVD DOL: WHT- OFF WHT, PRED MOD FRM- FRM, FN- MIC FN XLN, BLKY, SCAT HL FRAC  
 OD POR, LS: PRED OFF WHT- WHT, BLKY- PLTY, TR SUB RND-SUB ANG, PRED MOD FRM-  
 HRD, FRM, FN- MIC FN XLN, HL FRAC POR, CHERT: PRED OFF WHT-WHT, V HRD- HRD, ANG-  
 YEL SHARP, MIN DULL YEL-GLD FLOR, FR MLKY BLU- BLU WHT CUT, MED YEL RES RING

DOL: WHT- OFF WHT, MOD FRM- FRM, BLKY- PLTY, V FN- MIC FN XLN, SCAT HL FRAC  
 POR, LS: PRED OFF WHT- WHT, BLKY- PLTY, PRED MOD FRM- FRM, V FN- MIC FN XLN,  
 HL FRAC POR, CHERT: PRED OFF WHT-WHT, V HRD- HRD, ANG- SHARP, MIN DULL  
 YEL-GLD FLOR, FR MLKY BLU- BLU WHT CUT, MED YEL RES RING



SCALE CHANGED TO 100 UNITS

ENERGY: SALLY3420 1-12H HORIZONTAL  
GAS 80 UNITS

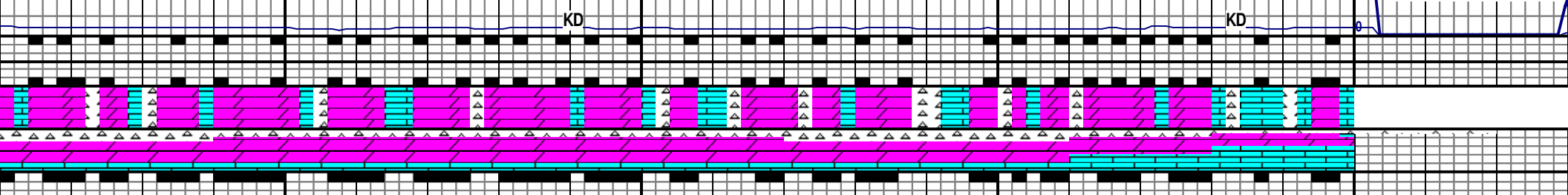
CONN GAS 86 UNITS

BG GAS 75 UNITS

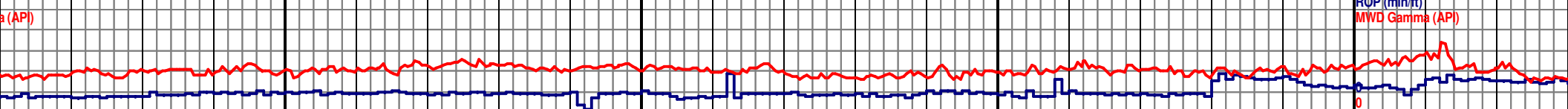
CONN GAS 94 UNITS

SANDRIDGE ENERGY: SALLY3420-1

NO GAS OR SAMPLE DUE TO JETTING SAND TRAP



% WELL BORE LITHOLOGY ABOVE



DOL: WHT- OFF WHT, SME CRM, BLKY- PLTY, MOD FRM- FRM, OCC SFT, V FN- MIC FN XLN, FR INTERXLN POR, SCAT HL FRAC POR, LS: PRED OFF WHT- WHT, BLKY- PLTY, PRED MOD FRM- FRM, V FN- MIC FN XLN, HL FRAC POR, CHERT: PRED OFF WHT-WHT, SME OPQ V HRD- HRD, ANG- SHARP, UNWTHRD, MIN DULL YEL-GLD FLOR, FR MLKY BLU- BLU WHT CUT, MED YEL RES RING

DOL: WHT- OFF WHT, SME CRM, BLKY- PLTY, MOD FRM- FRM, OCC SFT, V FN- MIC FN XLN, FR INTERXLN POR, SCAT HL FRAC POR, LS: PRED OFF WHT- WHT, BLKY- PLTY, PRED MOD FRM- FRM, V FN- MIC FN XLN, HL FRAC POR, CHERT: PRED OFF WHT-WHT, SME OPQ V HRD- HRD, ANG- SHARP, UNWTHRD, MIN DULL YEL-GLD FLOR, FR MLKY BLU- BLU WHT CUT, MED YEL RES RING

DOL: WHT- OFF WHT, SME CRM, BLKY- PLTY, MOD FRM- FRM, OCC SFT, V FN- MIC FN XLN, FR INTERXLN POR, SCAT HL FRAC POR, LS: PRED OFF WHT- WHT, BLKY- PLTY, PRED MOD FRM- FRM, V FN- MIC FN XLN, HL FRAC POR, CHERT: PRED OFF WHT-WHT, SME OPQ V HRD- HRD, ANG- SHARP, UNWTHRD, MIN DULL YEL-GLD FLOR, FR MLKY BLU- BLU WHT CUT, MED YEL RES RING



MD 8042 TVD 5226.49  
Az 182.3° Inc 89.6°

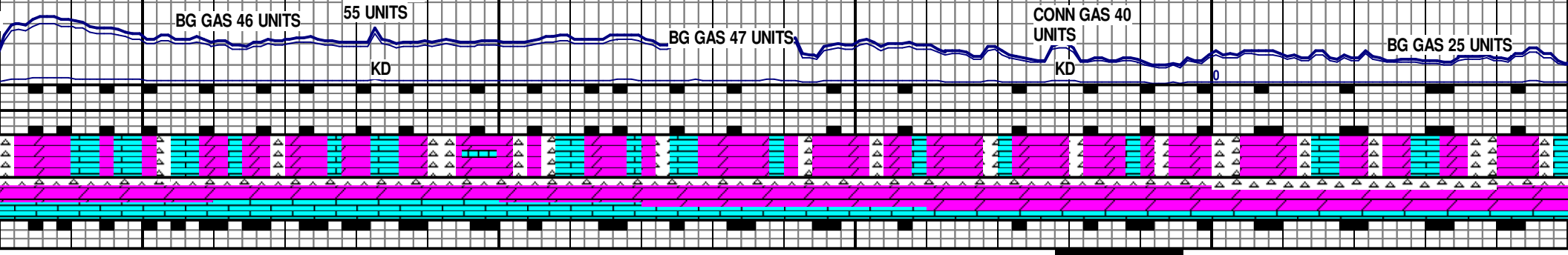
MD 8137 TVD 5226.99  
Az 181.3° Inc 89.8°

5250

GAS SCALE 0-200 UNITS

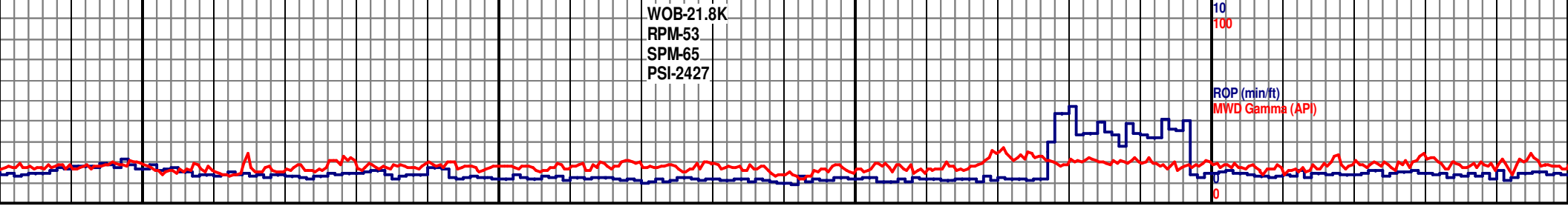
12H-HORIZONTAL

SANDRIDGE ENERGY: SALLY3420-1-12H-HORIZONTAL



WOB-21.8K  
RPM-53  
SPM-65  
PSI-2427

ROP (min/ft)  
MWD Gamma (API)



8250

8300

8350

8400

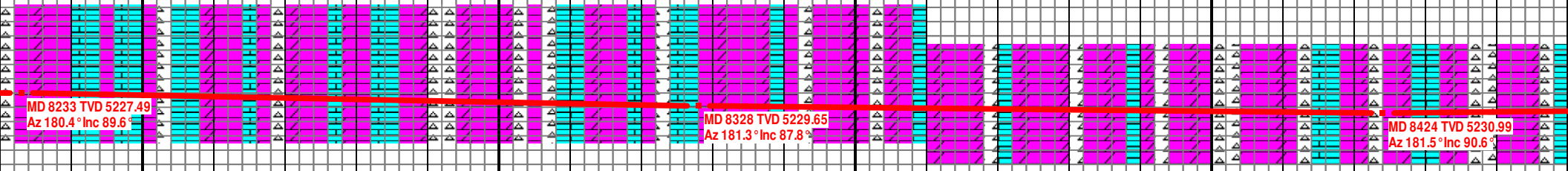
8450

SME CRM, BLKY-PLTY, MOD FRM-FRM, OCC SFT, V FN-MIC FN  
FR, SCAT HL FRAC POR, LS: PRED OFF WHT-WHT, BLKY-PLTY,  
V FN-MIC FN XLN, HL FRAC POR, CHERT: PRED OFF WHT-WHT,  
D, ANG-SHARP, UNWTHRD, MIN DULL YEL-GLD FLOR, FR MLKY  
ED YEL/WH RES RING

DOL: WHT-OFF WHT, SME CRM, BLKY-PLTY, MOD FRM-FRM, OCC SFT, V FN-MIC FN XLN,  
FR INTERXLN POR, SCAT HL FRAC POR, LS: PRED OFF WHT-WHT, BLKY-PLTY, PRED  
MOD FRM-FRM, V FN-MIC FN XLN, HL FRAC POR, CHERT: PRED OFF WHT-WHT, SME OPQ  
V HRD-HRD, ANG-SHARP, UNWTHRD, MIN DULL YEL-GLD FLOR, SLOW FNT BLU-BLU  
WHT CUT, FNT YEL RES RING

MUD DATA  
DEPTH: 8,341  
WT 8.5  
VIS 28  
PV N/A  
YP 1  
GEL 1/1  
FIL 60  
CK N/A  
SOL N/A  
H2O N/A  
PH 9.0  
CL 19,000  
HRD N/A

DOL: WHT-OFF WHT, OCC CRM, BLKY,  
XLN, PR-FR INTERXLN POR, SCAT HL FR  
V HRD-HRD, ANG-SHARP, UNWTHRD, L  
MOD FRM-FRM, V FN-MIC FN XLN, HL FR  
FNT DULL YEL RES RING



5250

GAS SCALE 0-200 UNITS

SANDRIDGE ENERGY: SALLY3420-1-12H-HORIZONTAL

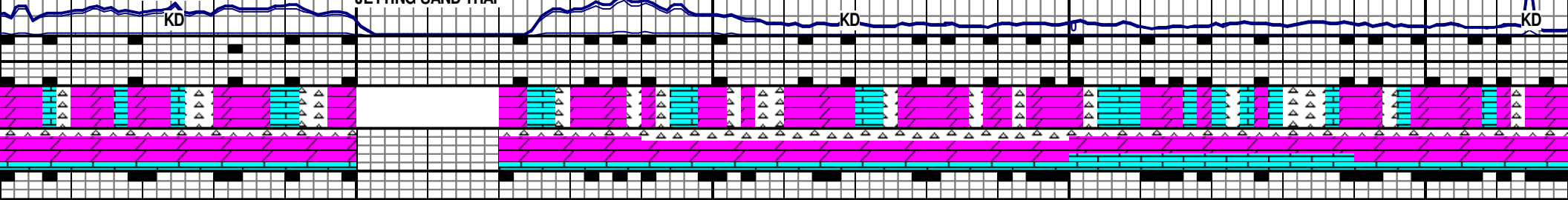
TRIP GAS 58 UNITS

CONN GAS 32 UNITS

NO GAS OR SAMPLE DUE TO JETTING SAND TRAP

CONN GAS 17 UNITS

BG GAS 15 UNITS

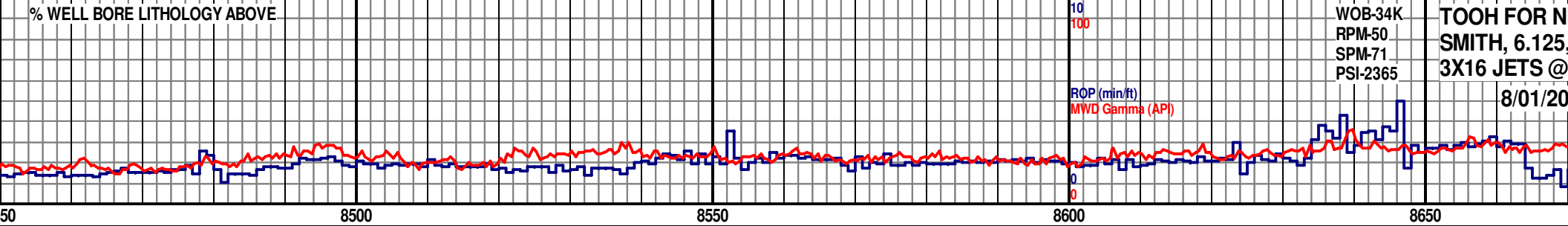


% WELL BORE LITHOLOGY ABOVE

WOB-34K  
RPM-50  
SPM-71  
PSI-2365

TOOH FOR N  
SMITH, 6.125  
3X16 JETS @  
8/01/20

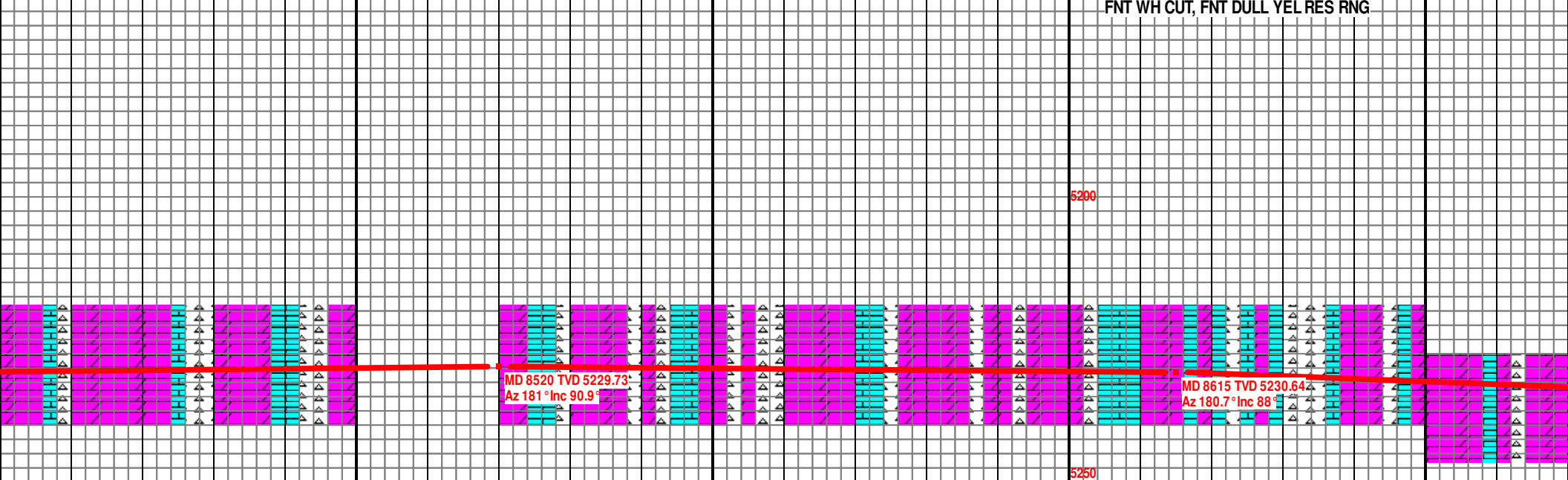
ROP (min/ft)  
MWD Gamma (API)



SME PLTY, MOD FRM- FRM, TR SFT, V FN- MIC FN  
RAC POR, CHERT: PRED OFF WHT-WHT, SME OPQ  
S: PRED OFF WHT- WHT, BLKY, SME PLTY, PRED  
RAC POR, PR DULL YEL-GLD FLOR, FR FNT WH CUT,

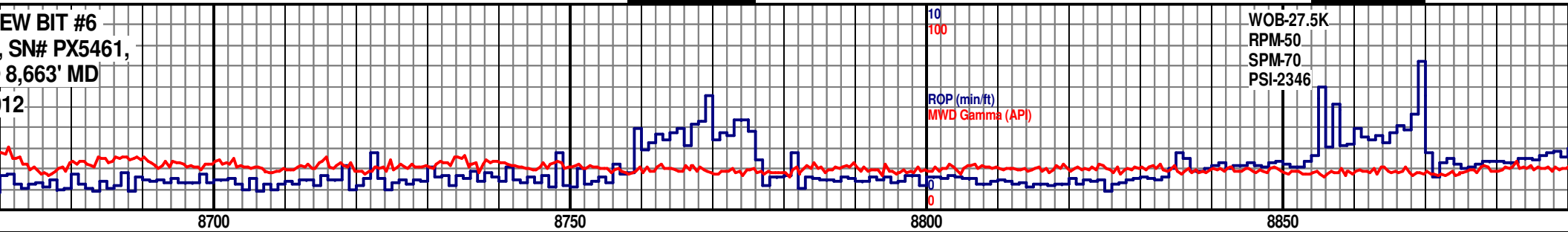
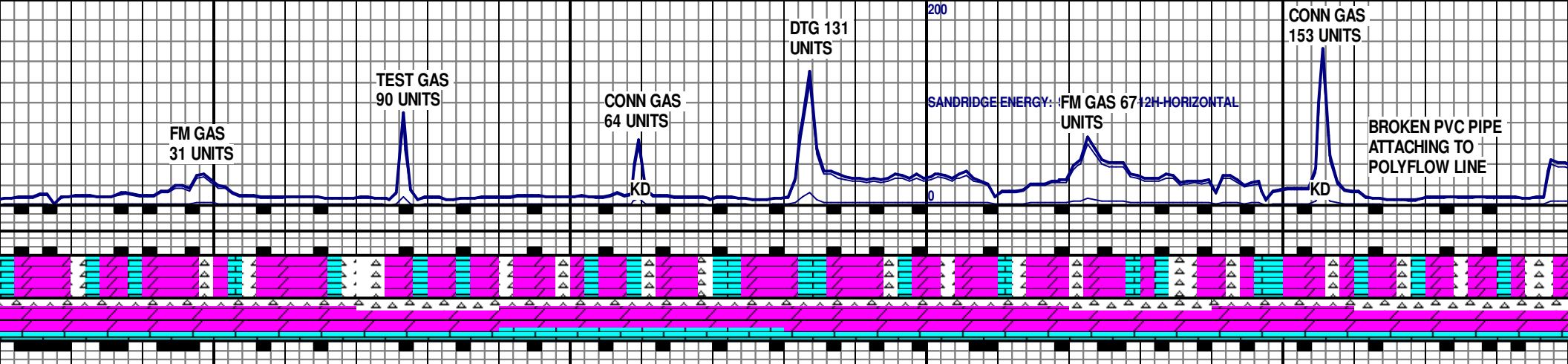
DOL: WHT- OFF WHT, OCC CRM, BLKY, SME PLTY, MOD FRM- FRM, TR SFT, V FN- MIC FN XLN, PR-  
FR INTERXLN POR, SCAT HL FRAC POR, CHERT: PRED OFF WHT-WHT, SME OPQ V HRD- HRD,  
ANG- SHARP, UNWTHRD, LS: PRED OFF WHT- WHT, BLKY, SME PLTY, PRED MOD FRM- FRM, V  
FN- MIC FN XLN, HL FRAC POR, PR DULL YEL-GLD FLOR, FR FNT WH CUT, FNT DULL YEL RES RNG

DOL: ABUN WHT- OFF WHT, TR CRM, BLKY, OCC PLTY, MOD FRM-  
MIC FN XLN, PR- FR INTERXLN POR, SCAT HL FRAC POR, CHERT: P  
SME OPQ V HRD- HRD, ANG- SHARP, LS: ABUN OFF WHT- WHT,  
PRED MOD FRM- FRM, V FN- MIC FN XLN, HL FRAC POR, PR DULL  
FNT WH CUT, FNT DULL YEL RES RNG

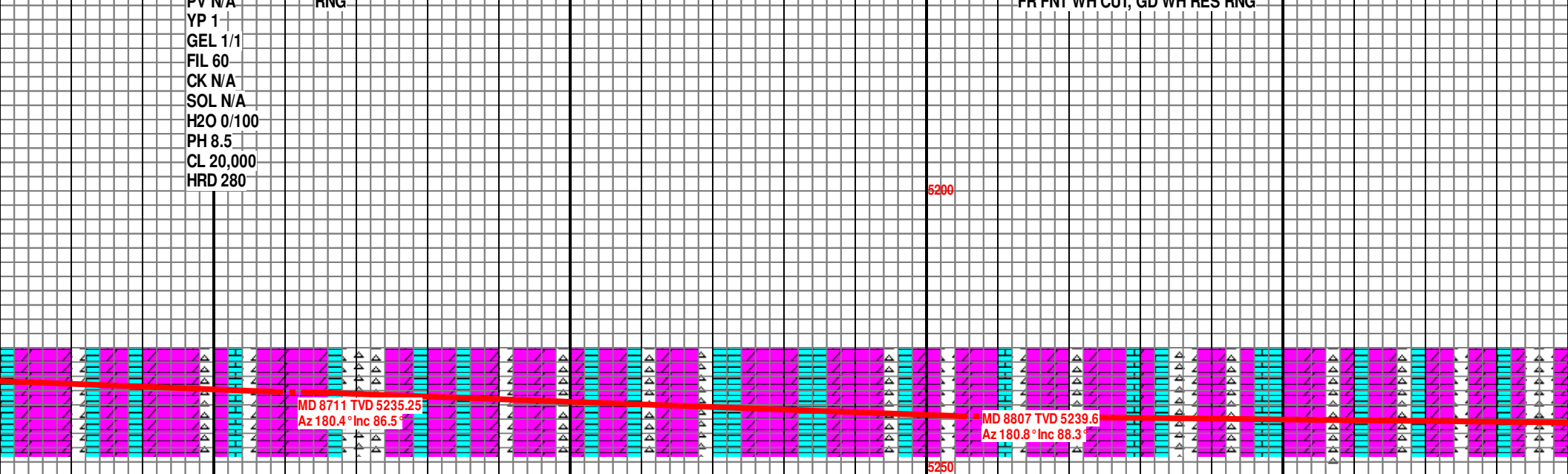


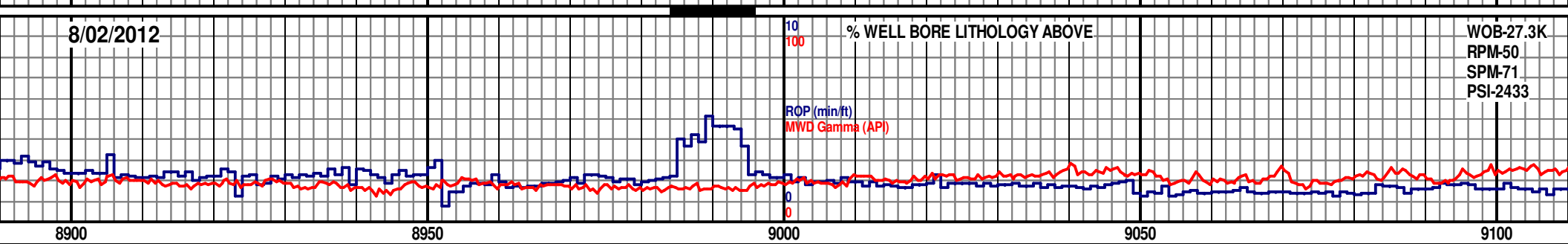
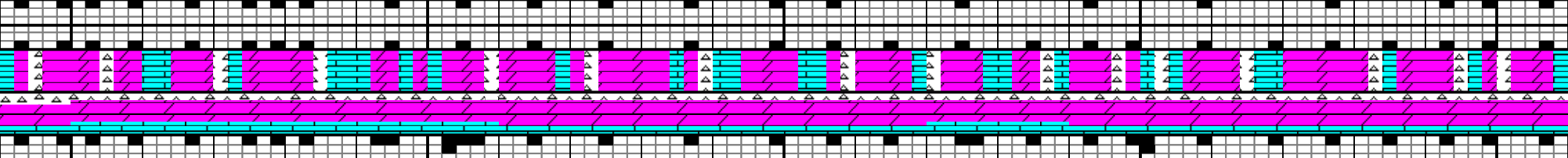
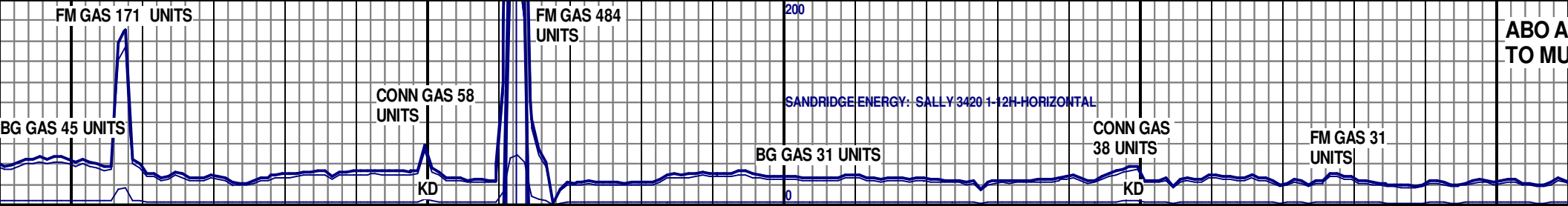
MD 8520 TVD 5229.73  
Az 181° Inc 90.9°

MD 8615 TVD 5230.64  
Az 180.7° Inc 88°

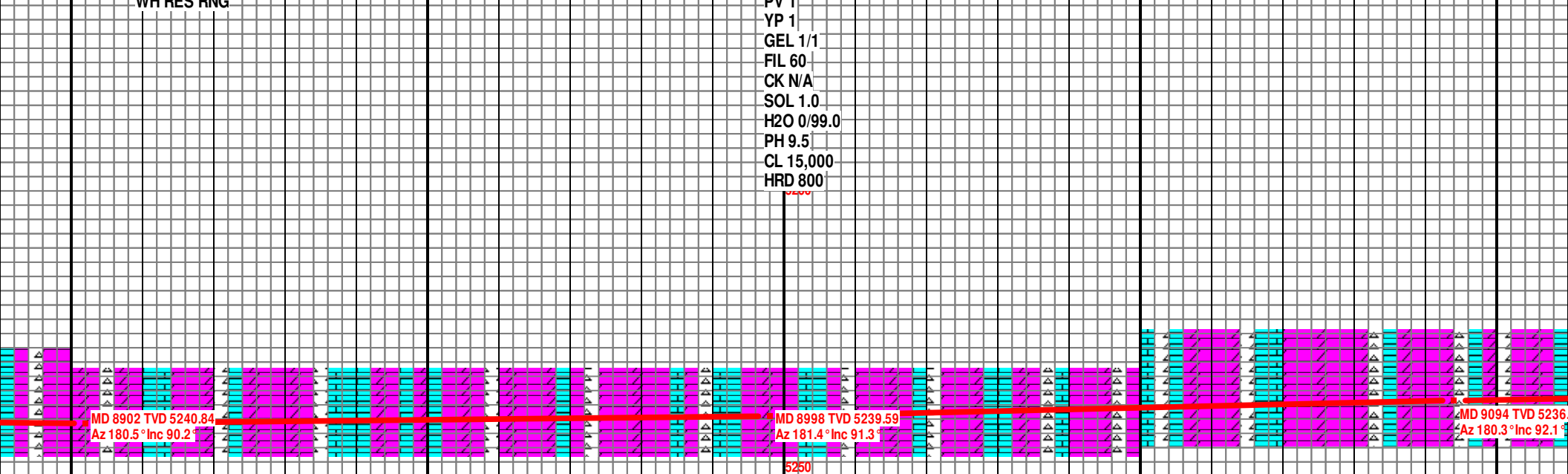


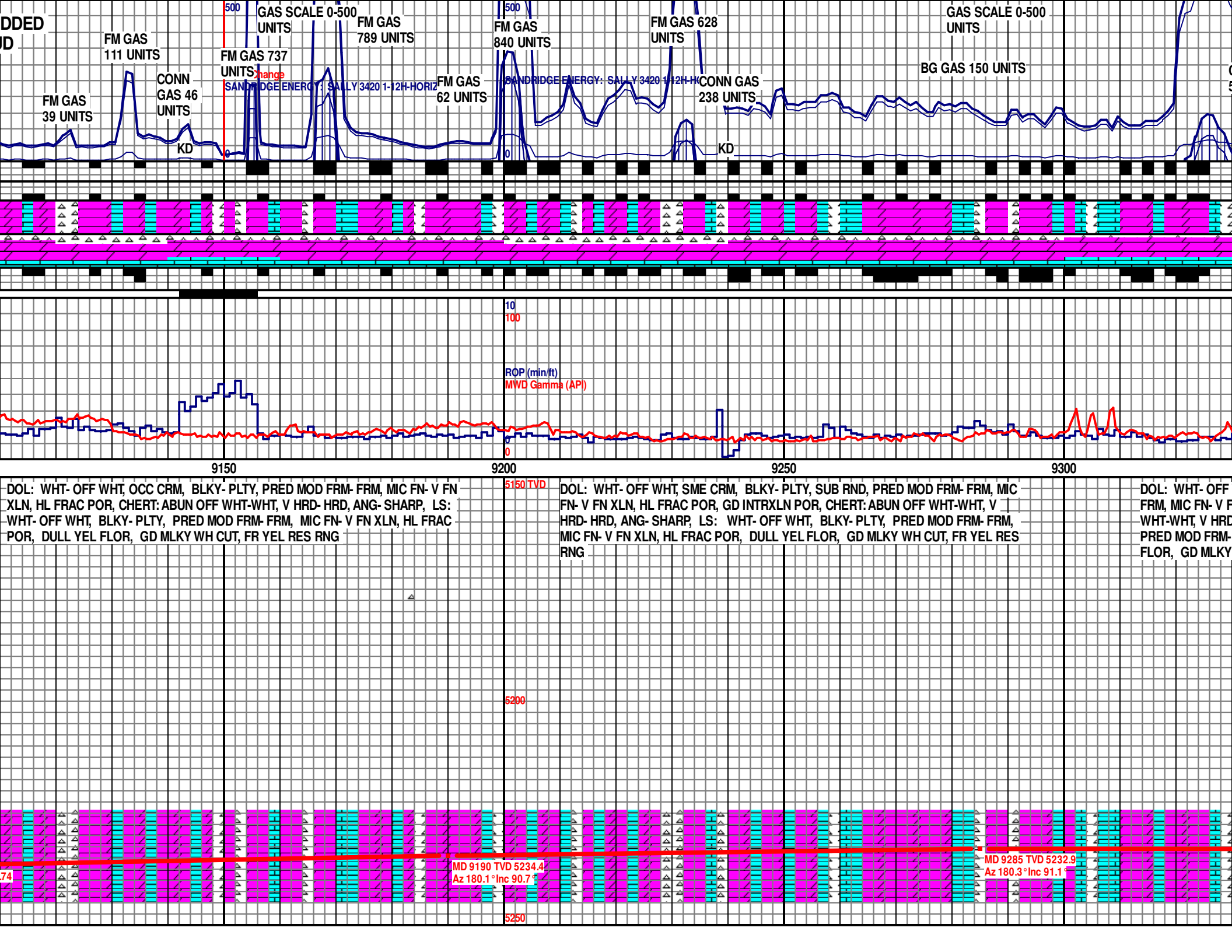
FRM, TR SFT, V FN- PRED OFF WHT-WHT, BLKY, OCC PLTY, YEL-GLD FLOR, FR	MUD DATA DEPTH: 8,663' WT 8.3 VIS 28 PV N/A YP 1 GEL 1/1 FIL 60 CK N/A SOL N/A H2O 0/100 PH 8.5 CL 20,000 HRD 280	DOL: MSTLY OFF WHT- WHT, TR CRM, BLKY- PLTY, PRED MOD FRM- FRM, FN- V FN XLN, PR INTERXLN POR, SCAT HL FRAC POR, CHERT: MSTLY OFF WHT-WHT, TR LT TAN, HRD- V HRD, SHARP- ANG, LS: MSTLY OFF WHT- WHT, BLKY- PLTY, PRED MOD FRM- FRM, FN- V FN XLN, HL FRAC POR, MIN SCAT DULL YEL FLOR, FR FNT WH CUT, FNT DULL YEL RES RNG	DOL: MSTLY OFF WHT- WHT, CRM, BLKY- PLTY, PRED MOD FRM- FRM, FN- V F XLN, PR-FR INTERXLN POR, SCAT HL FRAC POR, CHERT: MSTLY OFF WHT-WHT TR LT TAN, HRD- V HRD, SHARP- ANG, LS: MSTLY OFF WHT- WHT, BLKY- PLTY PRED MOD FRM- FRM, FN- V FN XLN, HL FRAC POR, MIN SCAT DULL YEL FLOR FR FNT WH CUT, GD WH RES RNG
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DOL: MSTLY OFF WHT- WHT, CRM, BLKY- PLTY, PRED MOD FRM- FRM, FN- V FN XLN, PR-FR INTERXLN POR, SCAT HL FRAC POR, CHERT: MSTLY OFF WHT-WHT, TR LT TAN, HRD- V HRD, SHARP- ANG, LS: MSTLY OFF WHT- WHT, BLKY- PLTY, PRED MOD FRM- FRM, FN- V FN XLN, HL FRAC POR, MIN SCAT DULL YEL FLOR, FR FNT WH CUT, GD WH RES RNG  
 MUD DATA  
 DEPTH: 8,988'  
 WT 8.4  
 VIS 28  
 PV 1  
 YP 1  
 GEL 1/1  
 FIL 60  
 CK N/A  
 SOL 1.0  
 H2O 0/99.0  
 PH 9.5  
 CL 15,000  
 HRD 800'





DDED  
ID

FM GAS 39 UNITS

FM GAS 111 UNITS

CONN GAS 46 UNITS

KD

FM GAS 737 UNITS

GAS SCALE 0-500 UNITS

FM GAS 789 UNITS

FM GAS 62 UNITS

FM GAS 840 UNITS

FM GAS 628 UNITS

CONN GAS 238 UNITS

KD

BG GAS 150 UNITS

GAS SCALE 0-500 UNITS

9150

9200

9250

9300

DOL: WHT-OFF WHT, OCC CRM, BLKY-PLTY, PRED MOD FRM-FRM, MIC FN-V FN XLN, HL FRAC POR, CHERT: ABUN OFF WHT-WHT, V HRD-HRD, ANG-SHARP, LS: WHT-OFF WHT, BLKY-PLTY, PRED MOD FRM-FRM, MIC FN-V FN XLN, HL FRAC POR, DULL YEL FLOR, GD MLKY WH CUT, FR YEL RES RNG

DOL: WHT-OFF WHT, SME CRM, BLKY-PLTY, SUB RND, PRED MOD FRM-FRM, MIC FN-V FN XLN, HL FRAC POR, GD INTRXLN POR, CHERT: ABUN OFF WHT-WHT, V HRD-HRD, ANG-SHARP, LS: WHT-OFF WHT, BLKY-PLTY, PRED MOD FRM-FRM, MIC FN-V FN XLN, HL FRAC POR, DULL YEL FLOR, GD MLKY WH CUT, FR YEL RES RNG

DOL: WHT-OFF FRM, MIC FN-V FRM WHT-WHT, V HRD PRED MOD FRM-FROR, GD MLKY

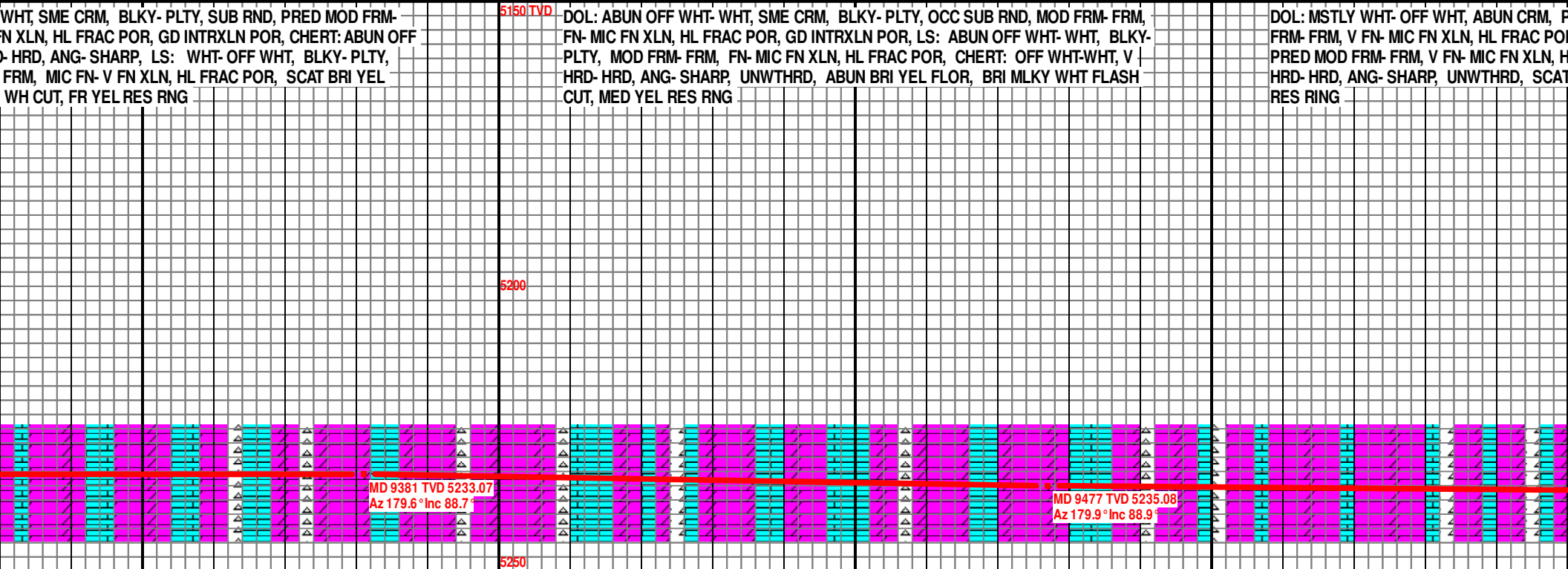
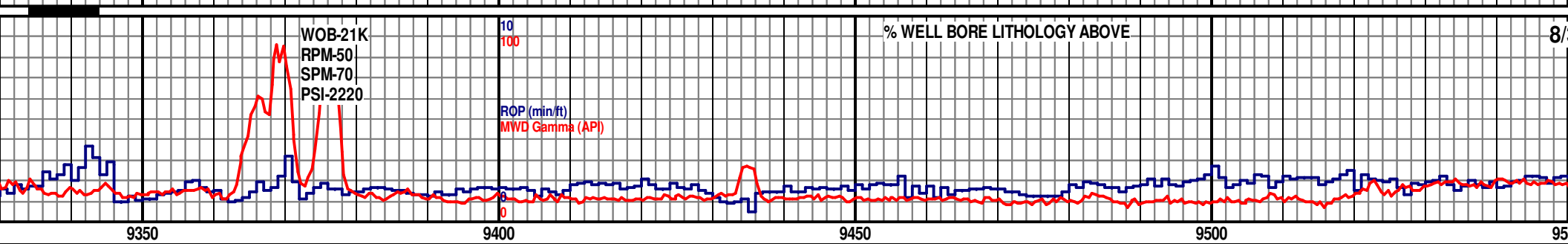
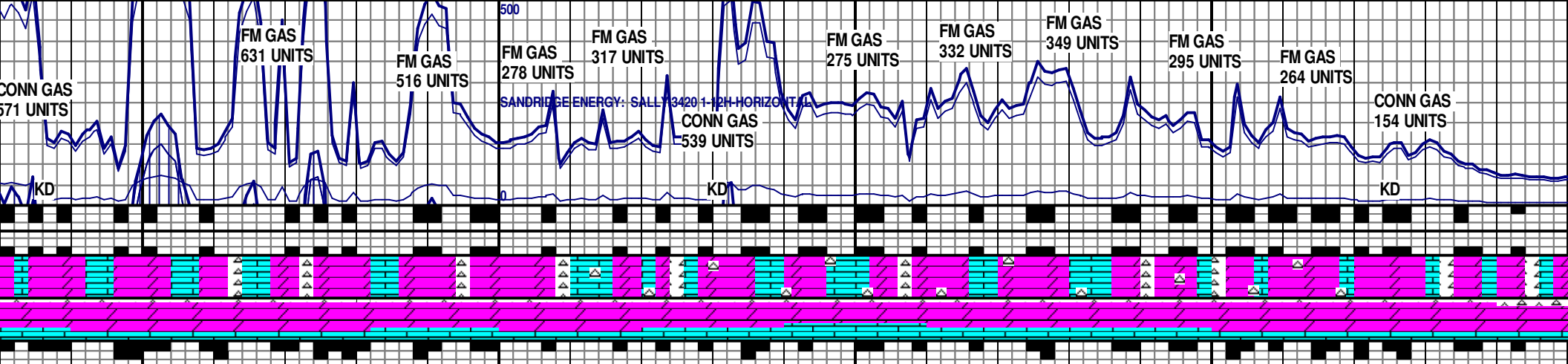
5150 TVD

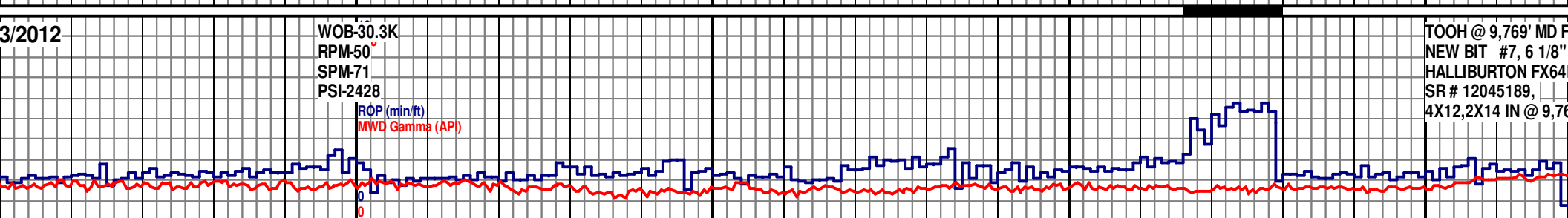
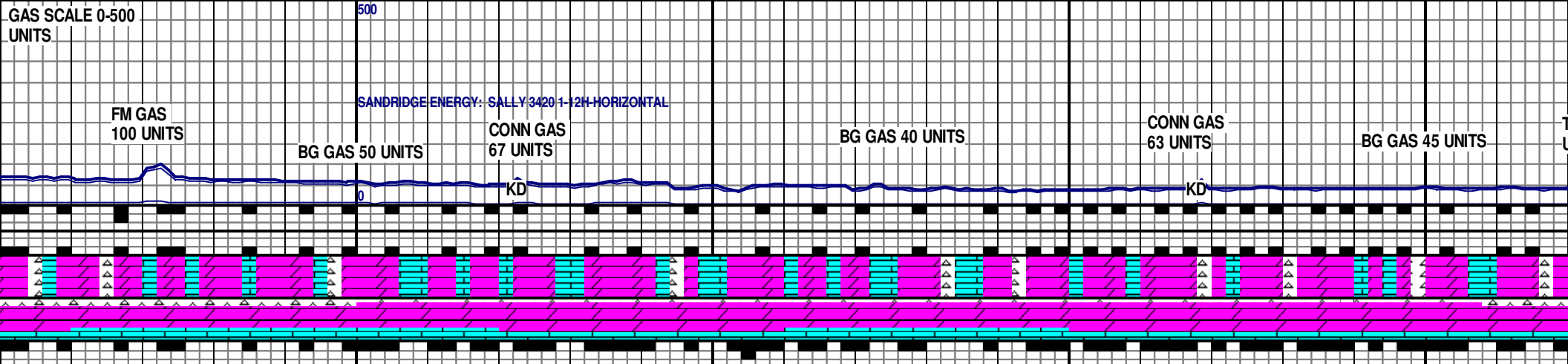
5290

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Az 180.1° Inc 90.7°

MD 9285 TVD 5232.9  
Az 180.3° Inc 91.1°

5250

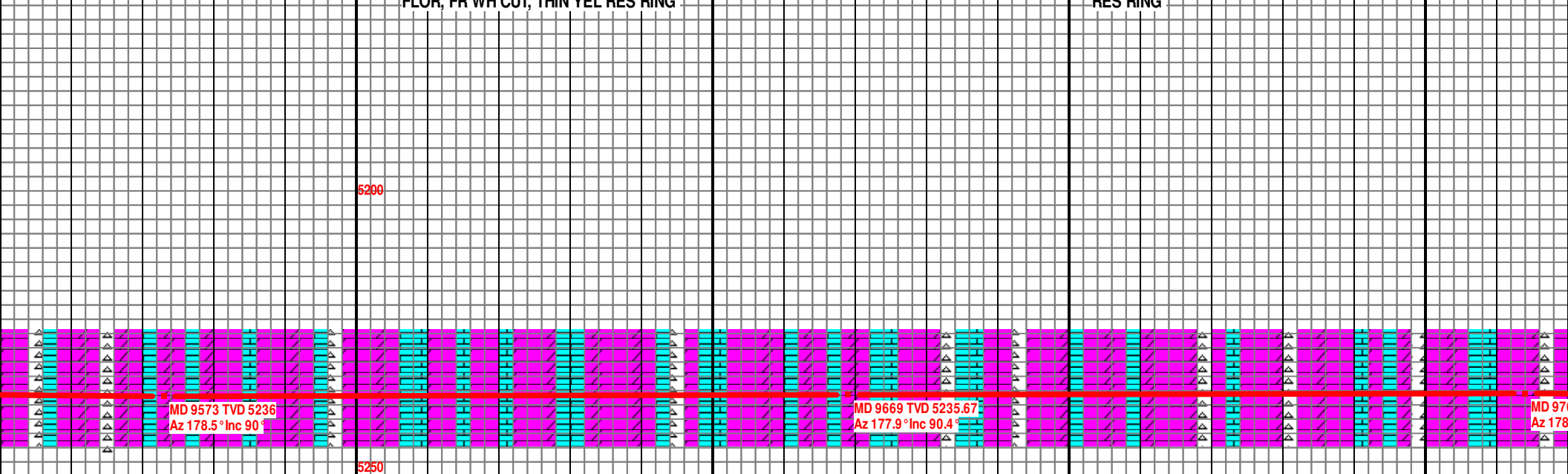


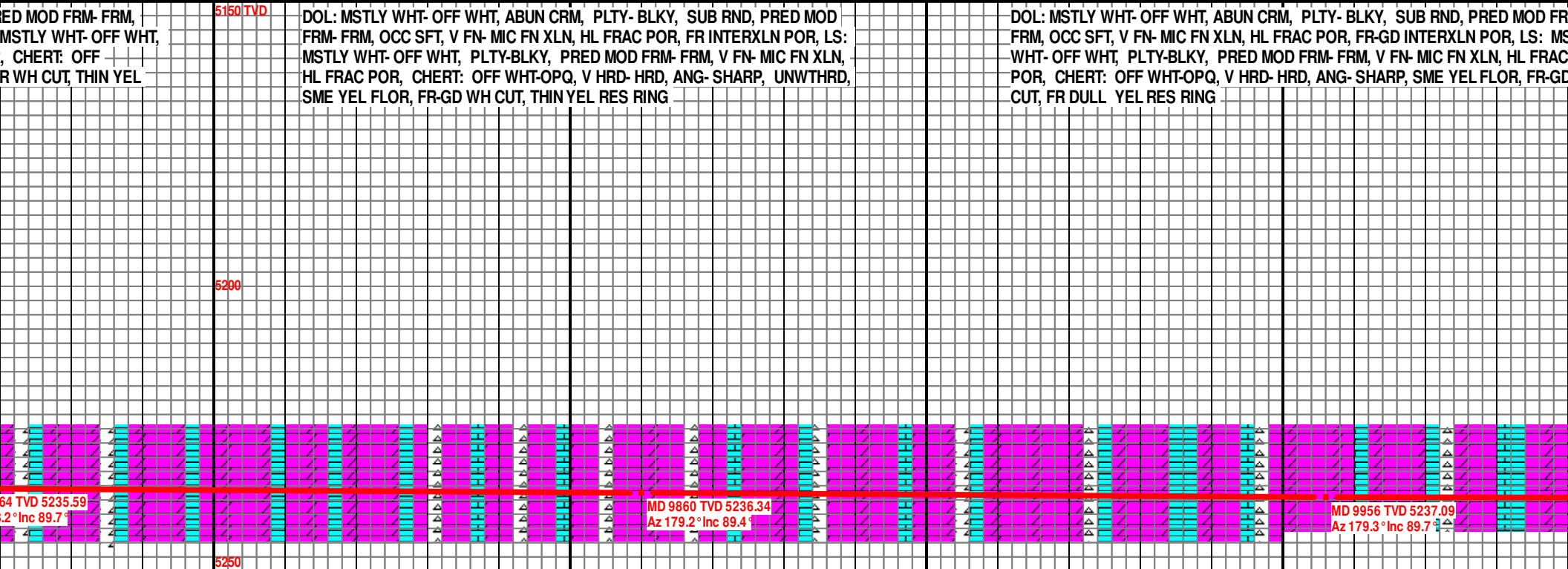
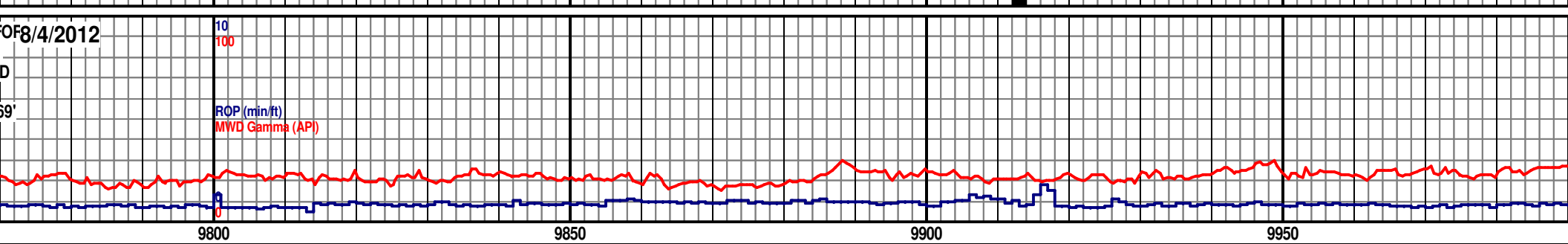
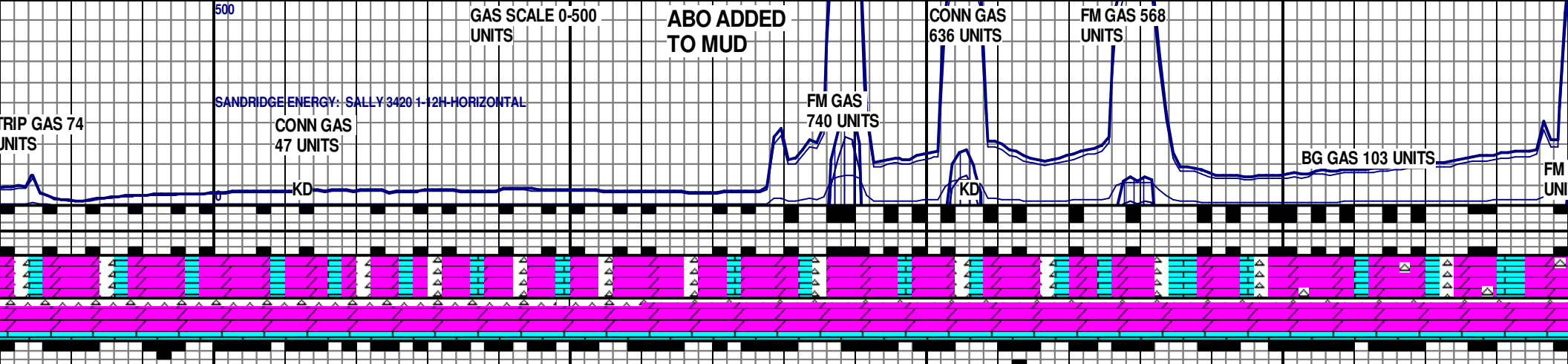


PLTY- BLKY, SME SUB RND, PRED MOD  
FR, LS: MSTLY WHT-OFF WHT, PLTY-BLKY,  
HL FRAC POR, CHERT: OFF WHT-WHT, V  
BRI YEL FLOR, GD-FR WH CUT, THIN YEL

DOL: MSTLY WHT- OFF WHT, ABUN CRM, PLTY- BLKY, SUB RND, PRED MOD FRM-  
FRM, OCC SFT, V FN- MIC FN XLN, HL FRAC POR, FR INTERXLN POR, LS: MSTLY  
WHT- OFF WHT, PLTY-BLKY, PRED MOD FRM- FRM, V FN- MIC FN XLN, HL FRAC  
POR, CHERT: OFF WHT-OPQ, V HRD- HRD, ANG- SHARP, UNWTHRD, SME YEL  
FLOR, FR WH CUT, THIN YEL RES RING

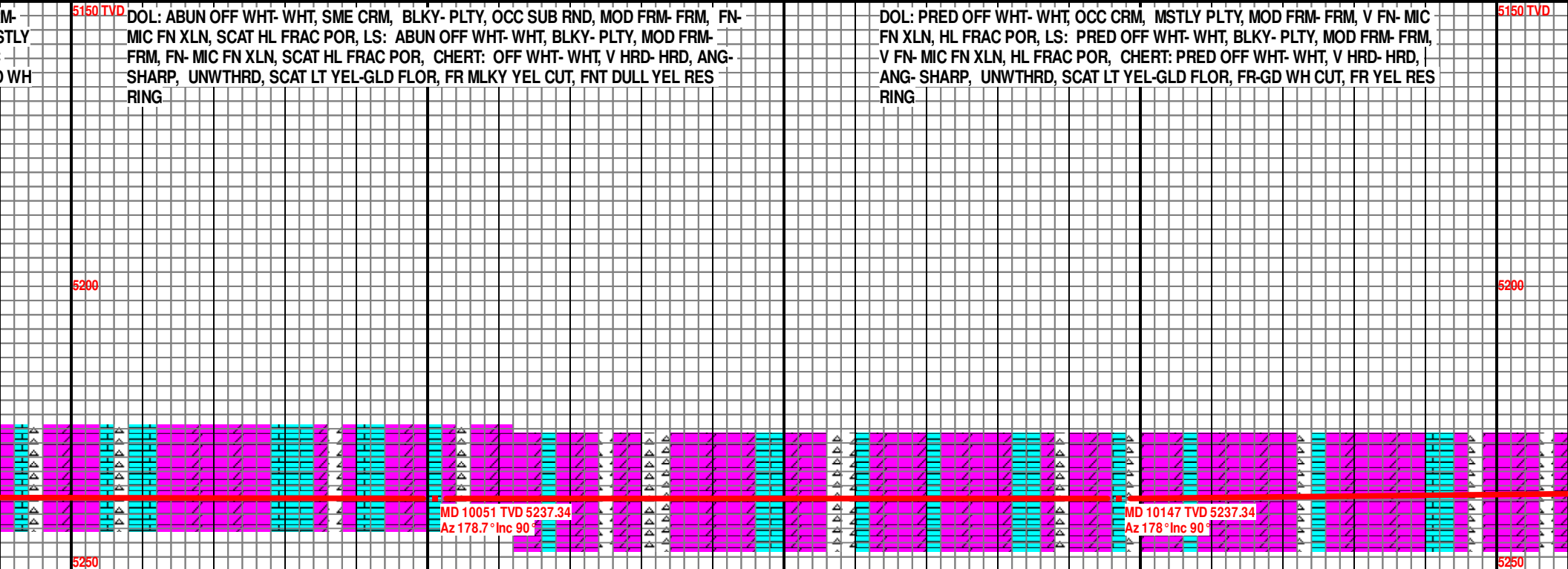
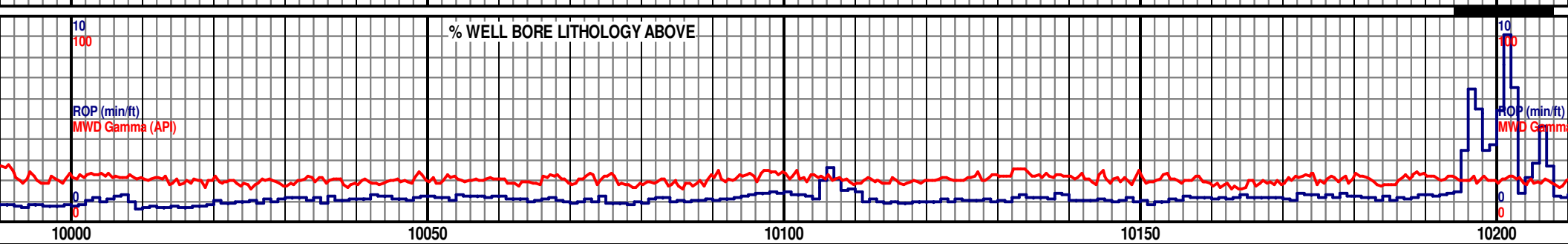
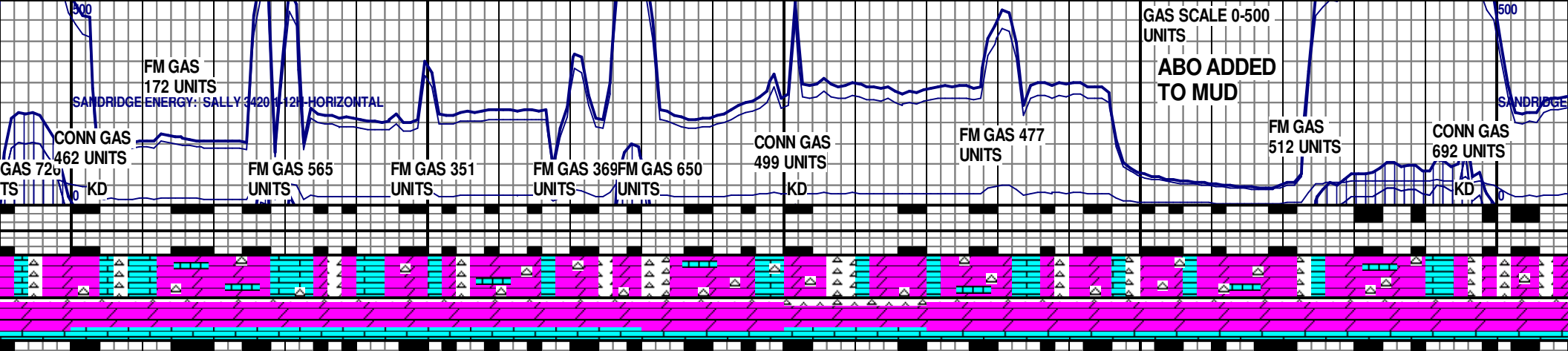
DOL: MSTLY WHT- OFF WHT, ABUN CRM, PLTY- BLKY, SUB RND, PR  
OCC SFT, V FN- MIC FN XLN, HL FRAC POR, FR INTERXLN POR, LS:  
PLTY-BLKY, PRED MOD FRM- FRM, V FN- MIC FN XLN, HL FRAC POR  
WHT-OPQ, V HRD- HRD, ANG- SHARP, UNWTHRD, SME YEL FLOR, F  
RES RING

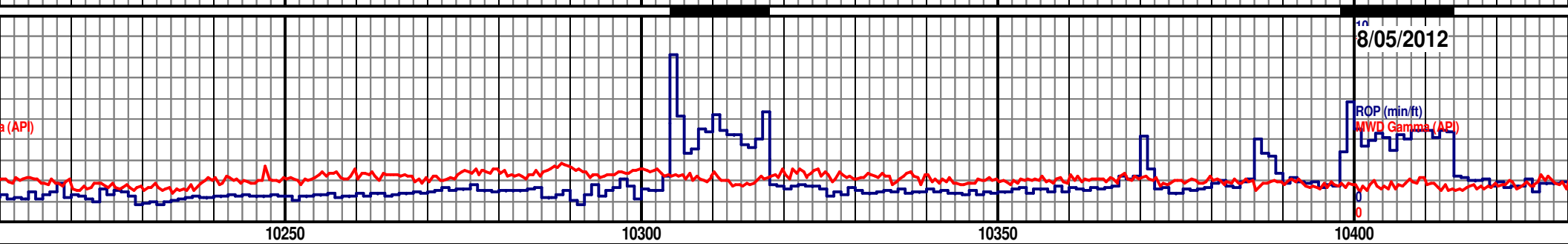
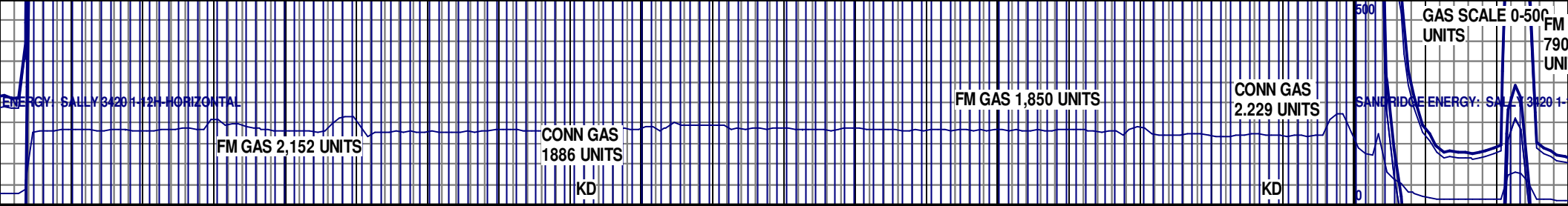




DOL: MSTLY WHT- OFF WHT, ABUN CRM, PLTY- BLKY, SUB RND, PRED MOD FRM- FRM, OCC SFT, V FN- MIC FN XLN, HL FRAC POR, FR INTERXLN POR, LS: MSTLY WHT- OFF WHT, PLTY-BLKY, PRED MOD FRM- FRM, V FN- MIC FN XLN, HL FRAC POR, CHERT: OFF WHT-OPQ, V HRD- HRD, ANG- SHARP, UNWTHRD, SME YEL FLOR, FR-GD WH CUT, THIN YEL RES RING

DOL: MSTLY WHT- OFF WHT, ABUN CRM, PLTY- BLKY, SUB RND, PRED MOD FRM- FRM, OCC SFT, V FN- MIC FN XLN, HL FRAC POR, FR-GD INTERXLN POR, LS: MS WHT- OFF WHT, PLTY-BLKY, PRED MOD FRM- FRM, V FN- MIC FN XLN, HL FRAC POR, CHERT: OFF WHT-OPQ, V HRD- HRD, ANG- SHARP, SME YEL FLOR, FR-GD WH CUT, FR DULL YEL RES RING

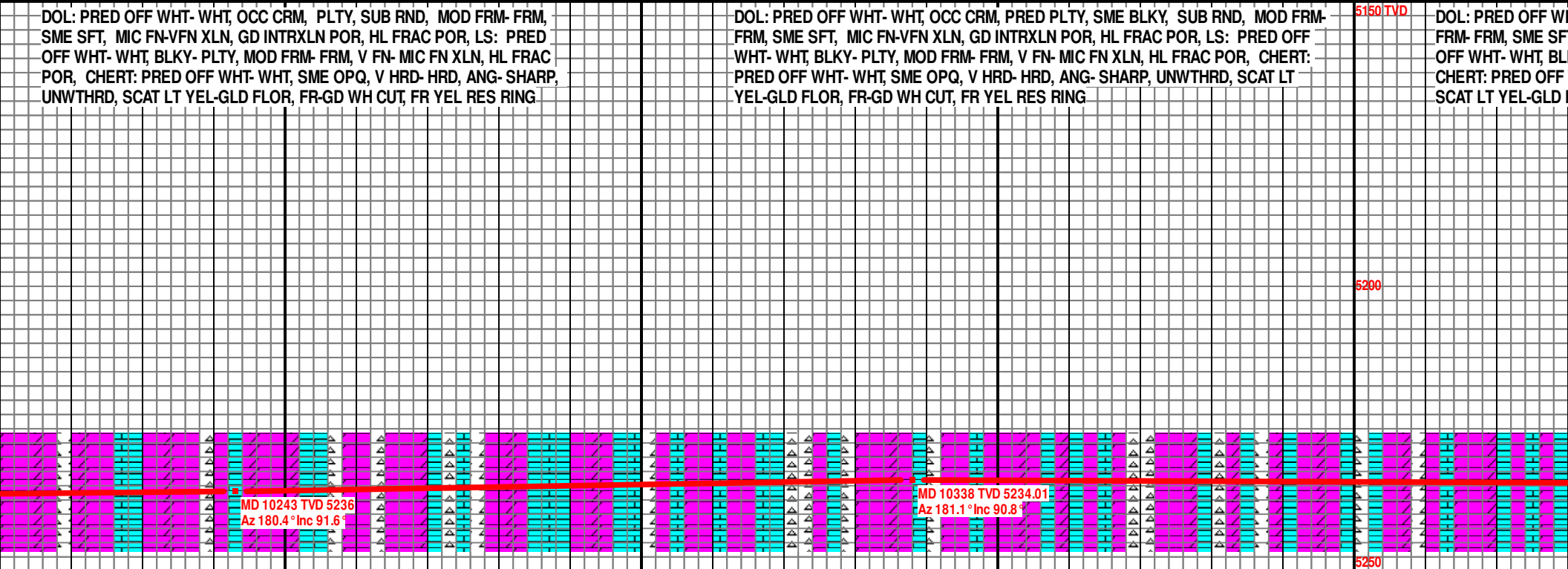


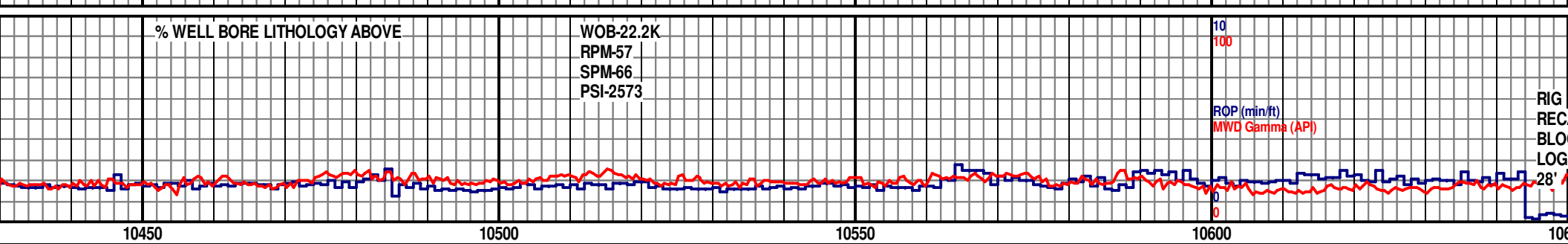
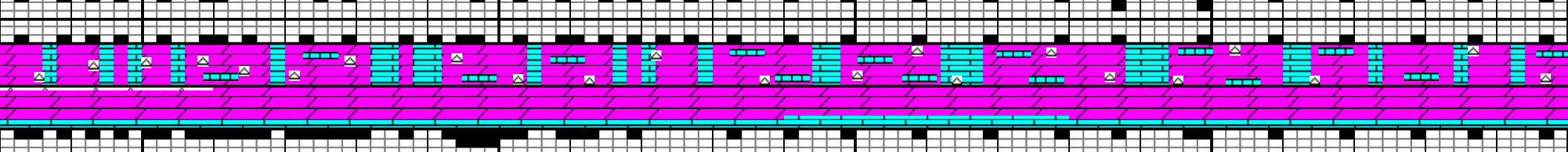
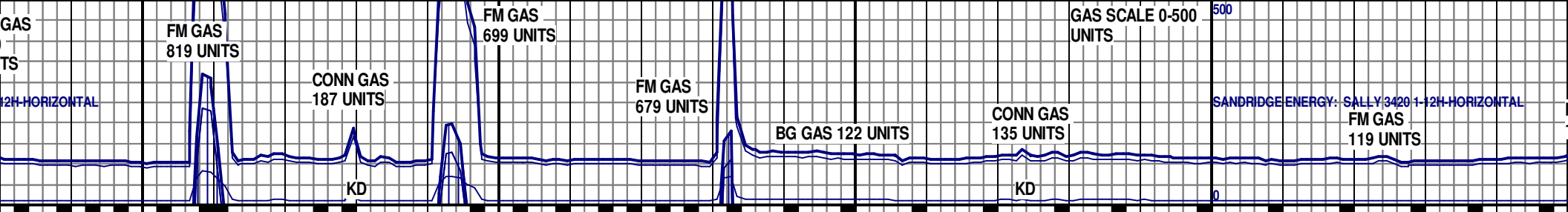


DOL: PRED OFF WHT- WHT, OCC CRM, PLTY, SUB RND, MOD FRM- FRM, SME SFT, MIC FN-VFN XLN, GD INTRXLN POR, HL FRAC POR, LS: PRED OFF WHT- WHT, BLKY- PLTY, MOD FRM- FRM, V FN- MIC FN XLN, HL FRAC POR, CHERT: PRED OFF WHT- WHT, SME OPQ, V HRD- HRD, ANG- SHARP, UNWTHRD, SCAT LT YEL-GLD FLOR, FR-GD WH CUT, FR YEL RES RING

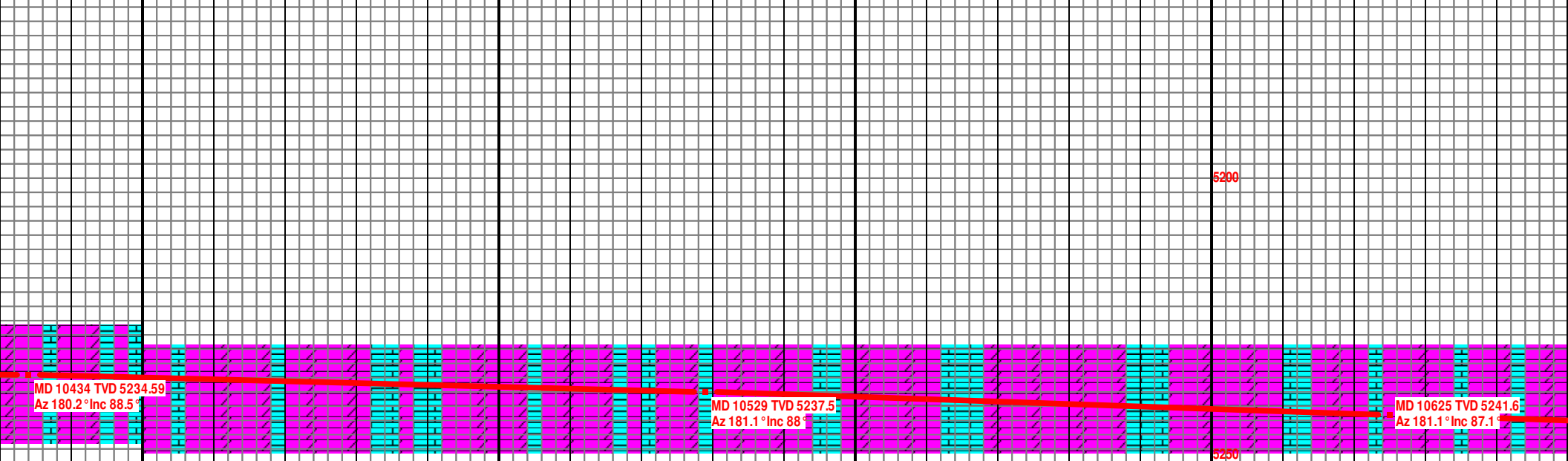
DOL: PRED OFF WHT- WHT, OCC CRM, PRED PLTY, SME BLKY, SUB RND, MOD FRM- FRM, SME SFT, MIC FN-VFN XLN, GD INTRXLN POR, HL FRAC POR, LS: PRED OFF WHT- WHT, BLKY- PLTY, MOD FRM- FRM, V FN- MIC FN XLN, HL FRAC POR, CHERT: PRED OFF WHT- WHT, SME OPQ, V HRD- HRD, ANG- SHARP, UNWTHRD, SCAT LT YEL-GLD FLOR, FR-GD WH CUT, FR YEL RES RING

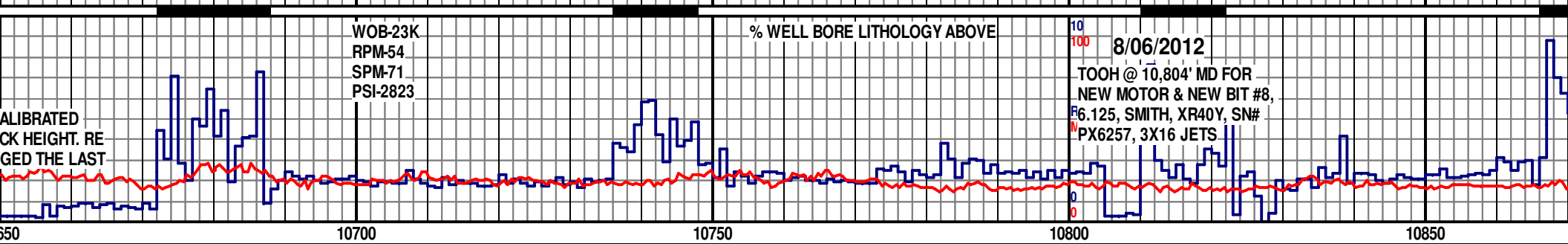
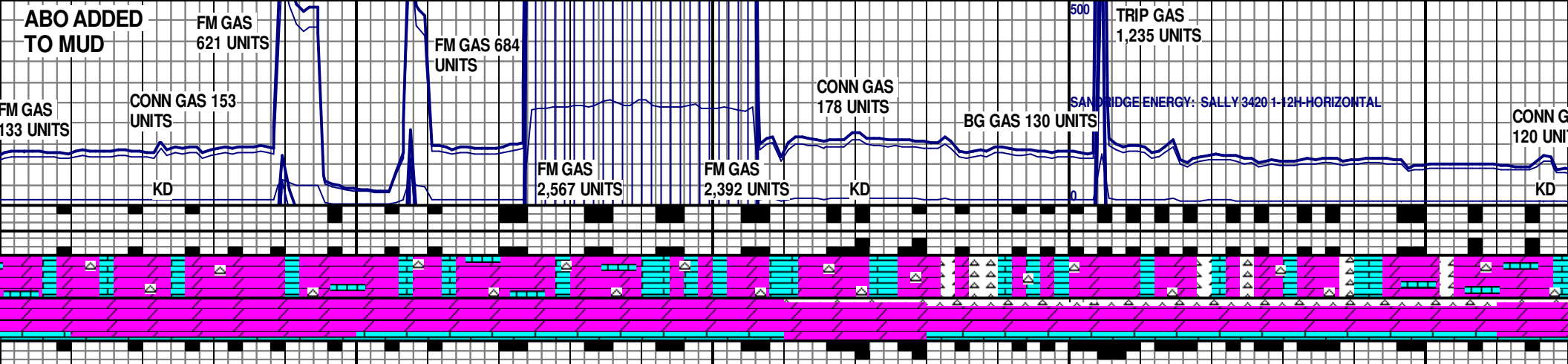
DOL: PRED OFF WHT- WHT, OCC CRM, PRED PLTY, SME BLKY, SUB RND, MOD FRM- FRM, SME SFT, MIC FN-VFN XLN, GD INTRXLN POR, HL FRAC POR, LS: PRED OFF WHT- WHT, BLKY- PLTY, MOD FRM- FRM, V FN- MIC FN XLN, HL FRAC POR, CHERT: PRED OFF WHT- WHT, SME OPQ, V HRD- HRD, ANG- SHARP, UNWTHRD, SCAT LT YEL-GLD FLOR, FR-GD WH CUT, FR YEL RES RING





HT- WHT, OCC CRM, PRED PLTY, SME BLKY, SUB RND, MOD  
 T, MIC FN-VFN XLN, GD INTRXLN POR, HL FRAC POR, LS: PRED  
 KY- PLTY, MOD FRM- FRM, V FN- MIC FN XLN, HL FRAC POR,  
 WHT- WHT, SME OPQ, V HRD- HRD, ANG- SHARP, UNWTHRD,  
 FLOR, FR-GD WH CUT, FNT YEL/WH RES RING  
 DOL: PRED OFF WHT- WHT, OCC CRM, PLTY- BLKY, SUB RND, MOD FRM- FRM, SME SFT, MIC  
 FN-VFN XLN, GD INTRXLN POR, HL FRAC POR, LS: PRED OFF WHT- WHT, BLKY- PLTY, MOD FRM-  
 FRM, V FN- MIC FN XLN, HL FRAC POR, LESS THAN 10% CHERT: PRED OFF WHT, SME OPQ,  
 V HRD- HRD, ANG- SHARP, UNWTHRD, MIN SCAT LT YEL-GLD FLOR, FR-GD MILKY YEL CUT, FNT  
 YEL RES RING  
 DOL: MSTLY WHT- OFF WHT, TR CRM- LT TAN, BL  
 OCC SFT, V FN- MIC FN XLN, HL FRAC POR, LS:  
 FRM- FRM, V FN- MIC FN XLN, HL FRAC POR, LES  
 SME OPQ, V HRD- HRD, ANG- SHARP, MIN SCAT  
 YEL RES RING





KY-PLTY OCC SUB RND, MOD FRM- FRM,  
 MSTLY WHT- OFF WHT, PLTY- BLKY, MOD  
 SS THAN 5% CHERT: MSTLY WHT- OFF WHT,  
 LT YEL-GLD FLOR, FR-GD MILKY YEL CUT, FR

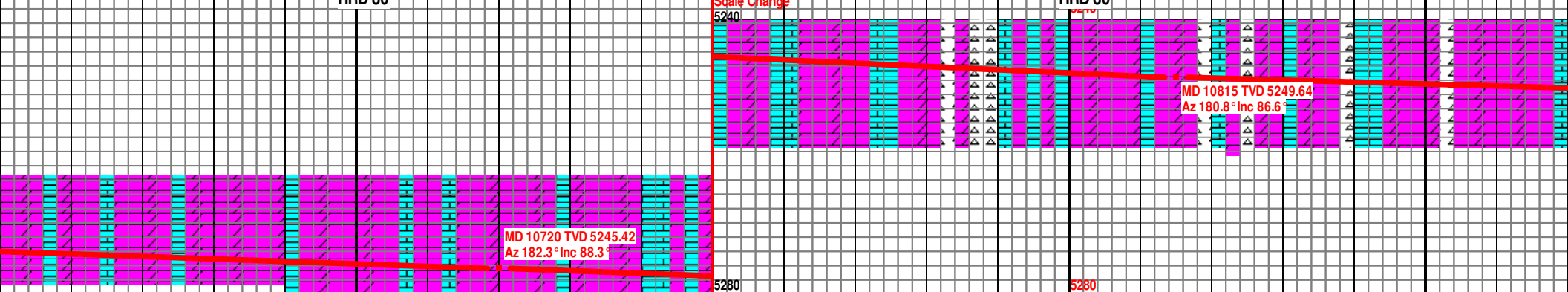
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 DEPTH: 10,711'  
 WT 8.5  
 VIS 31  
 PV 3  
 YP 4  
 GEL 4/7  
 FIL 60  
 CK 1/32  
 SOL 2.0  
 H2O 0/98.0  
 PH 9.5  
 CL 13,000  
 HRD 80

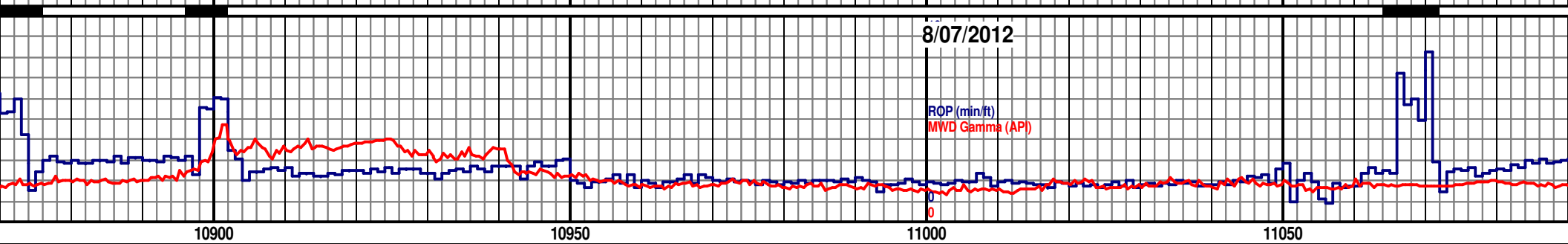
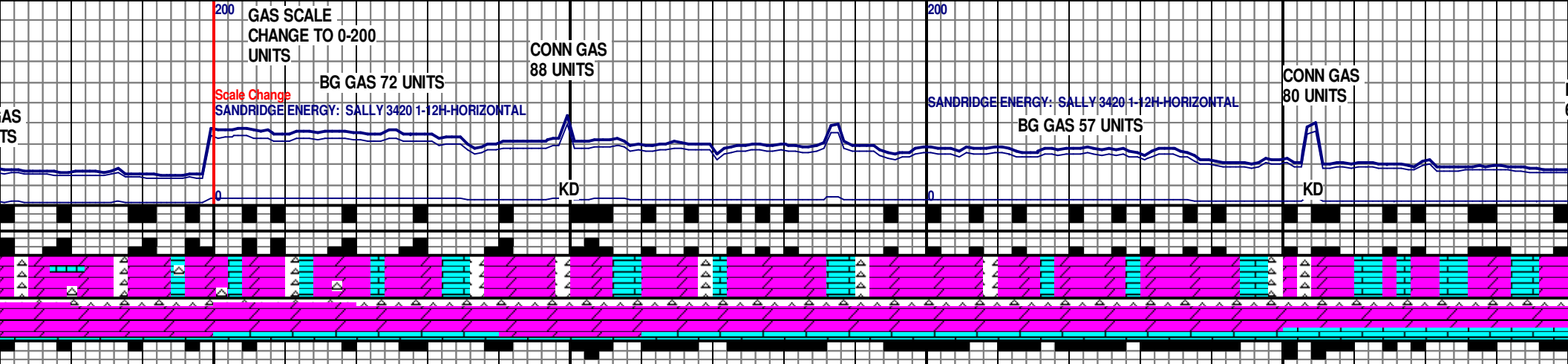
**DOL: ABUN OFF WHT- WHT, TR CRM- LT TAN, BLKY- PLTY, SUB RND-SUB ANG, MOD**  
**FRM- FRM, V FN- MIC FN XLN, HL FRAC POR, FR-GD INTRXLN POR, LS: ABUN OFF**  
**WHT- WHT, BLKY- PLTY, MOD FRM- FRM, V FN- MIC FN XLN, HL FRAC POR, CHERT:**  
**ABUN OFF WHT- WHT, V HRD- HRD, ANG- SHARP, MIN SCAT LT YEL-GLD FLOR, BRI**  
**MILKY WHT FLASH CUT, MED YEL RES RING**

**MUD DATA**  
 DEPTH: 10,805'  
 WT 8.6  
 VIS 32  
 PV 4  
 YP 5  
 GEL 5/7  
 FIL 60  
 CK 1/32  
 SOL 2.0  
 H2O 0/98.0  
 PH 9.5  
 CL 10,000  
 HRD 80

**DOL: PRED OFF WHT- WHT, OCC CRM, BLKY- PLTY, M**  
**FN XLN, HL FRAC POR, FR INTRXLN POR, POSS STNS**  
**WHT, V HRD- HRD, ANG- SHARP, LS: PRED OFF WHT- V**  
**FRM- FRM, V FN- MIC FN XLN, HL FRAC POR, SCAT BRI**  
**MILKY WH CUT, GD WH RES RING, SLI OIL ODOR**

Scale Change  
5240

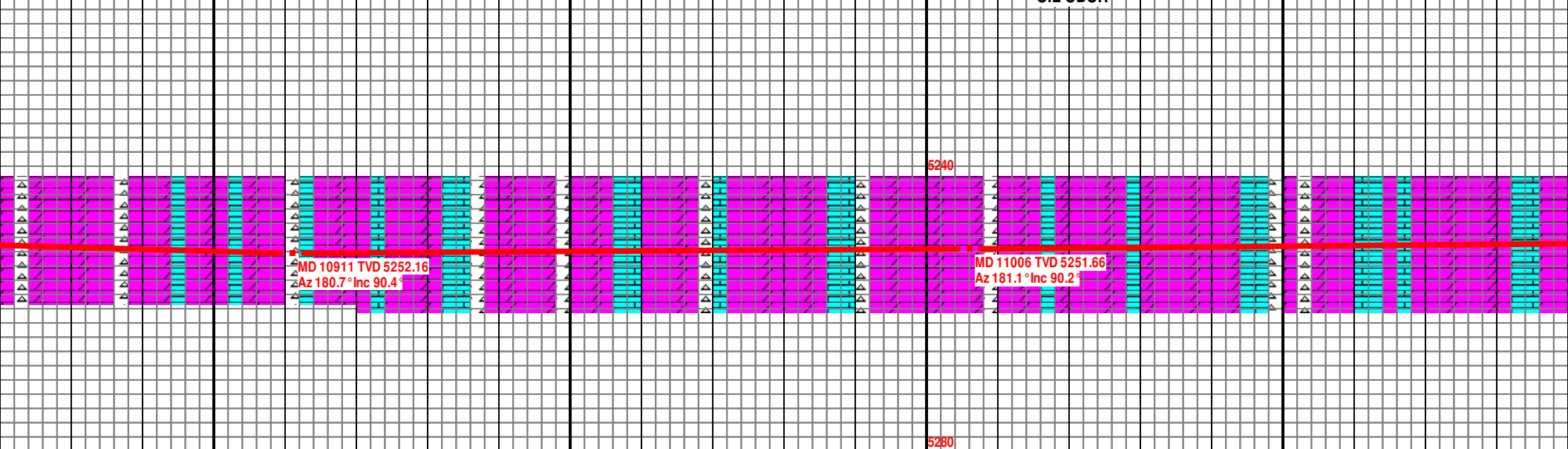


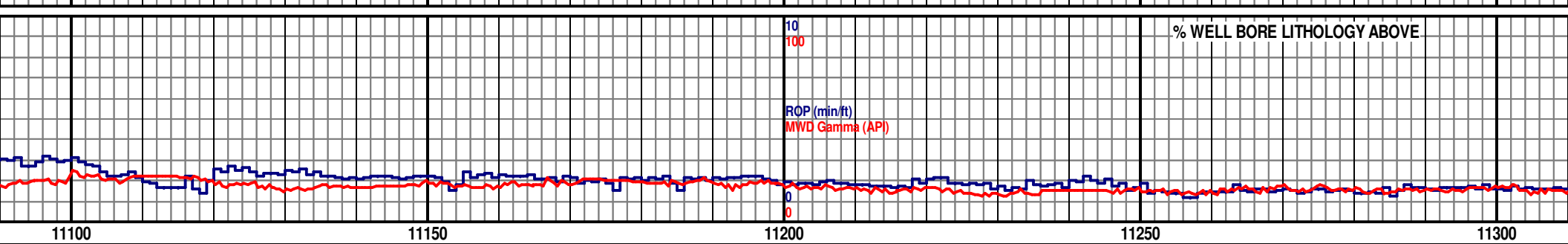
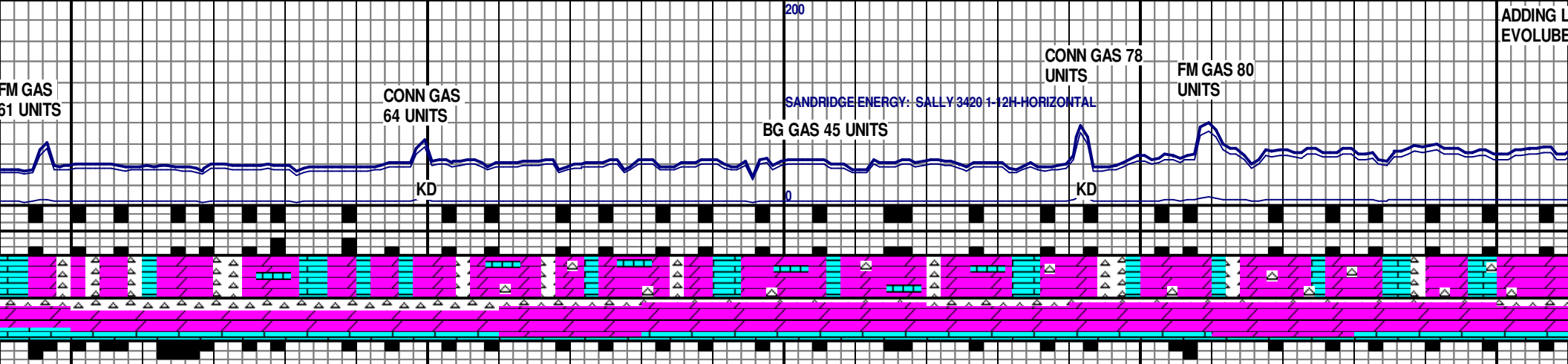


MOD FRM- FRM, V FN- MIC  
 , CHERT: PRED OFF WHT-  
 WHT, BLKY- PLTY, MOD  
 YEL-GLD FLOR, GD

DOL: MSTLY WHT- OFF WHT, BLKY- PLTY, PRED MOD FRM- FRM, SUB RND, SME SFT,  
 V FN- MIC FN XLN, HL FRAC POR, FR INTRXLN POR, POSS STNS, CHERT: MSTLY OFF  
 WHT- WHT, V HRD- HRD, ANG- SHARP, LS: MSTLY OFF WHT- WHT, BLKY- PLTY, PRED  
 MOD FRM- FRM, V FN- MIC FN XLN, HL FRAC POR, ABUN BRI YEL-GLD FLOR, GD MLKY  
 WH CUT, GD WH RES RNG, SLI OIL ODOR

DOL: MSTLY WHT- OFF WHT, BLKY- PLTY, PRED MOD FRM- FRM, SUB RND,  
 SME SFT, V FN- MIC FN XLN, HL FRAC POR, FR INTRXLN POR, POSS STNS,  
 CHERT: MSTLY OFF WHT- WHT, V HRD- HRD, ANG- SHARP, LS: MSTLY OFF  
 WHT- WHT, BLKY- PLTY, PRED MOD FRM- FRM, V FN- MIC FN XLN, HL FRAC  
 POR, ABUN BRI YEL-GLD FLOR, GD MLKY WH CUT, GD WH RES RNG, SLI  
 OIL ODOR

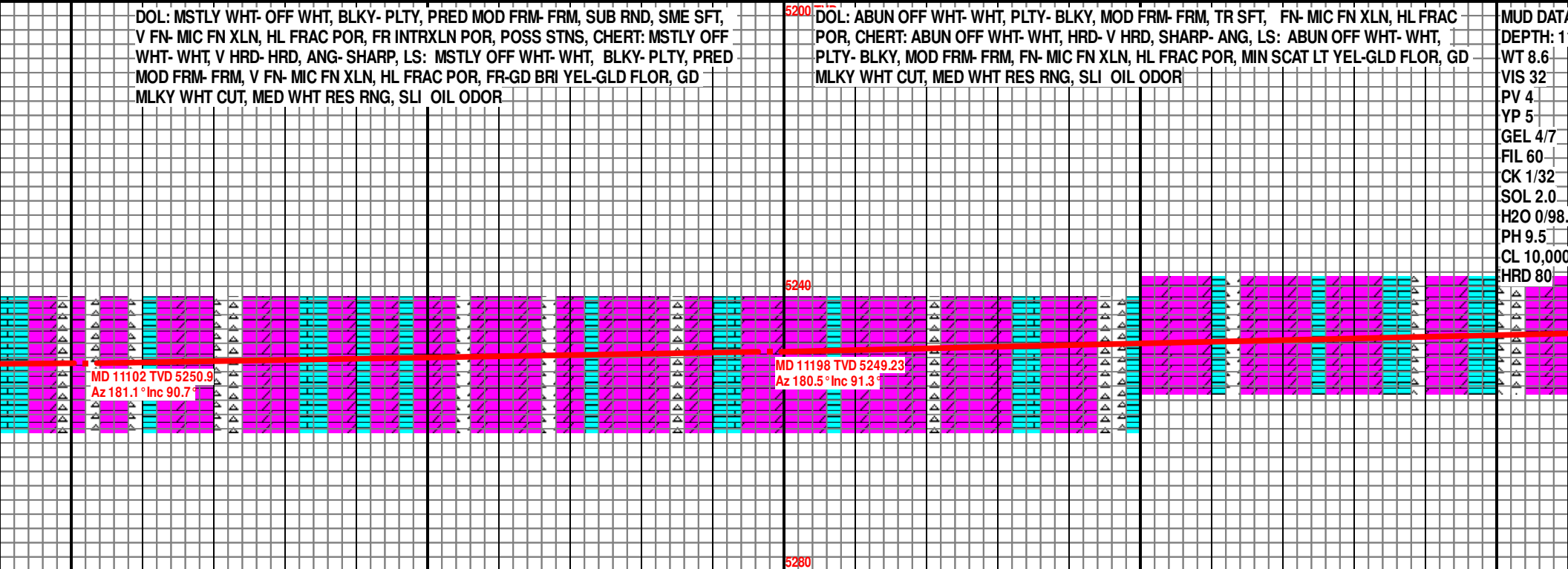


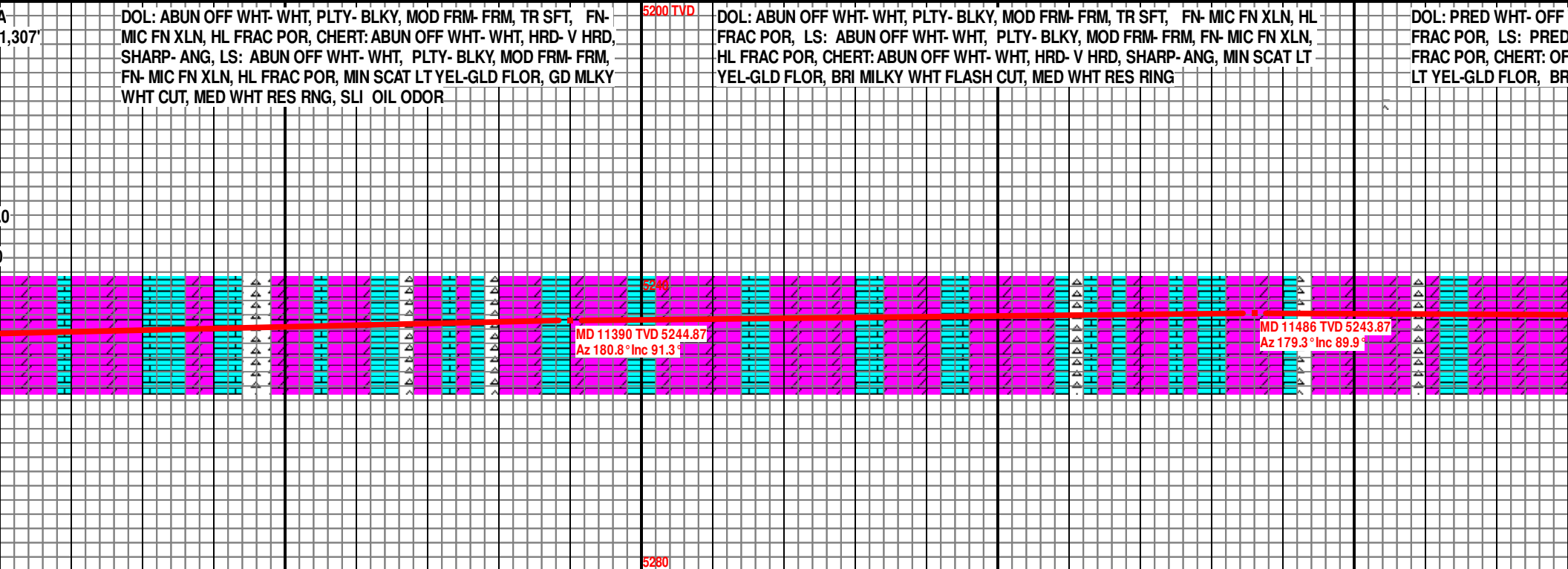
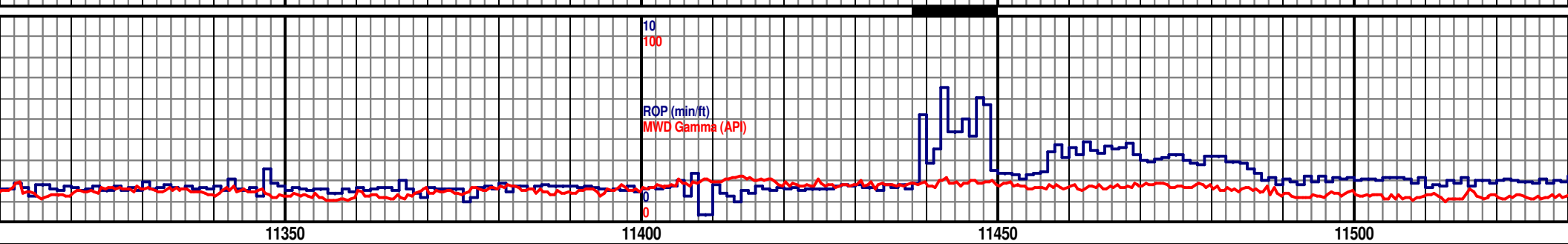
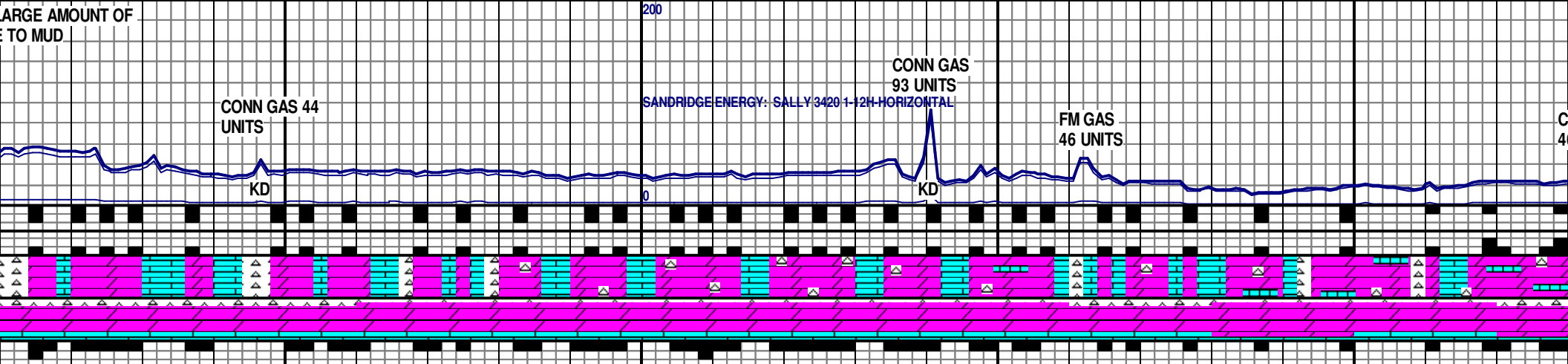


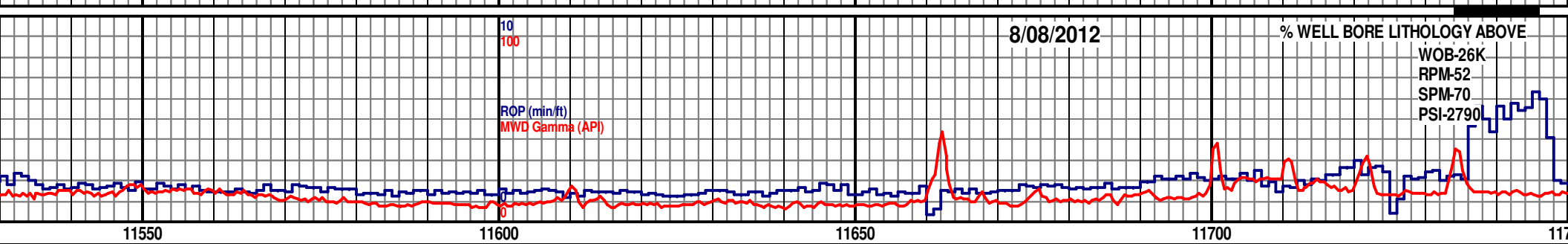
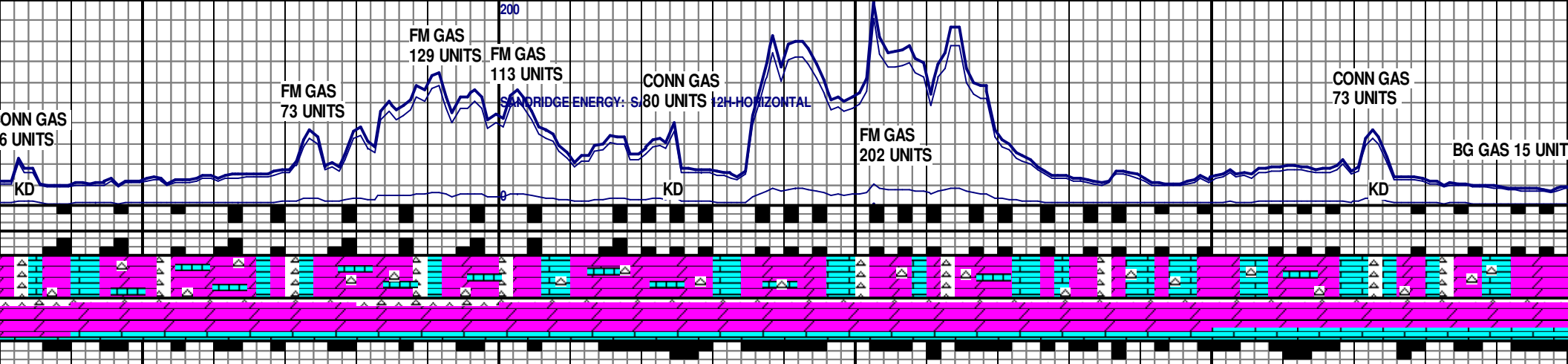
DOL: MSTLY WHT- OFF WHT, BLKY- PLTY, PRED MOD FRM- FRM, SUB RND, SME SFT, V FN- MIC FN XLN, HL FRAC POR, FR INTRXLN POR, POSS STNS, CHERT: MSTLY OFF WHT- WHT, V HRD- HRD, ANG- SHARP, LS: MSTLY OFF WHT- WHT, BLKY- PLTY, PRED MOD FRM- FRM, V FN- MIC FN XLN, HL FRAC POR, FR- GD BRI YEL- GLD FLOR, GD MLKY WHT CUT, MED WHT RES RNG, SLI OIL ODOR

DOL: ABUN OFF WHT- WHT, PLTY- BLKY, MOD FRM- FRM, TR SFT, FN- MIC FN XLN, HL FRAC POR, CHERT: ABUN OFF WHT- WHT, HRD- V HRD, SHARP- ANG, LS: ABUN OFF WHT- WHT, PLTY- BLKY, MOD FRM- FRM, FN- MIC FN XLN, HL FRAC POR, MIN SCAT LT YEL- GLD FLOR, GD MLKY WHT CUT, MED WHT RES RNG, SLI OIL ODOR

MUD DATA  
 DEPTH: 1  
 WT 8.6  
 VIS 32  
 PV 4  
 YP 5  
 GEL 4/7  
 FIL 60  
 CK 1/32  
 SOL 2.0  
 H2O 0/98  
 PH 9.5  
 CL 10,000  
 HRD 80





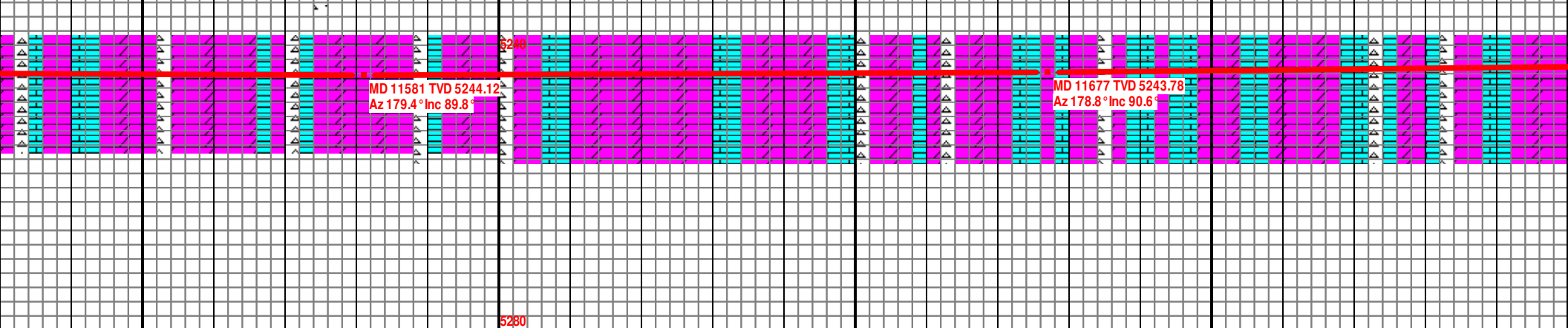


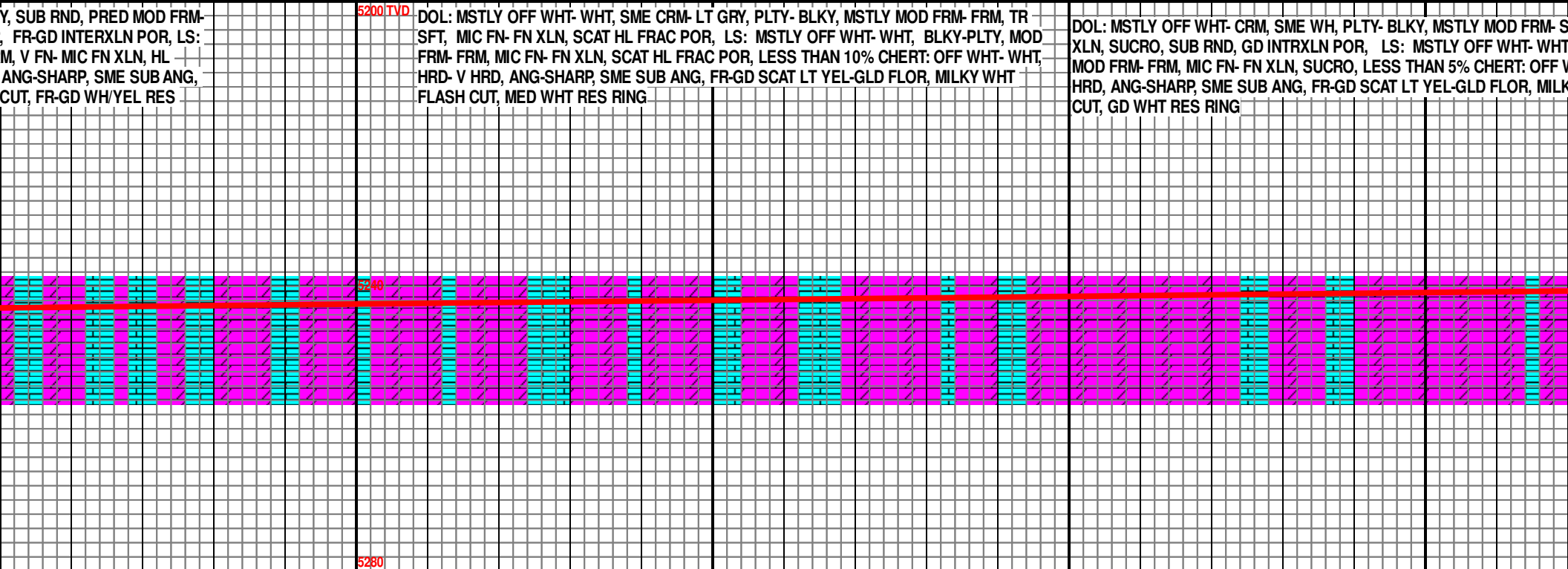
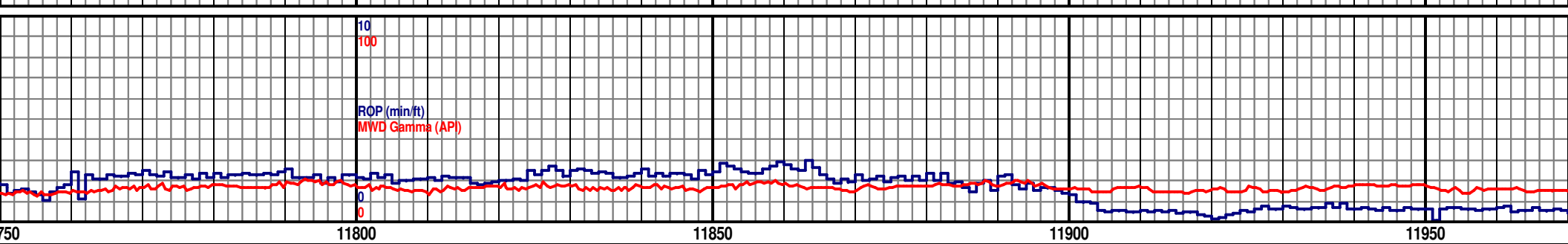
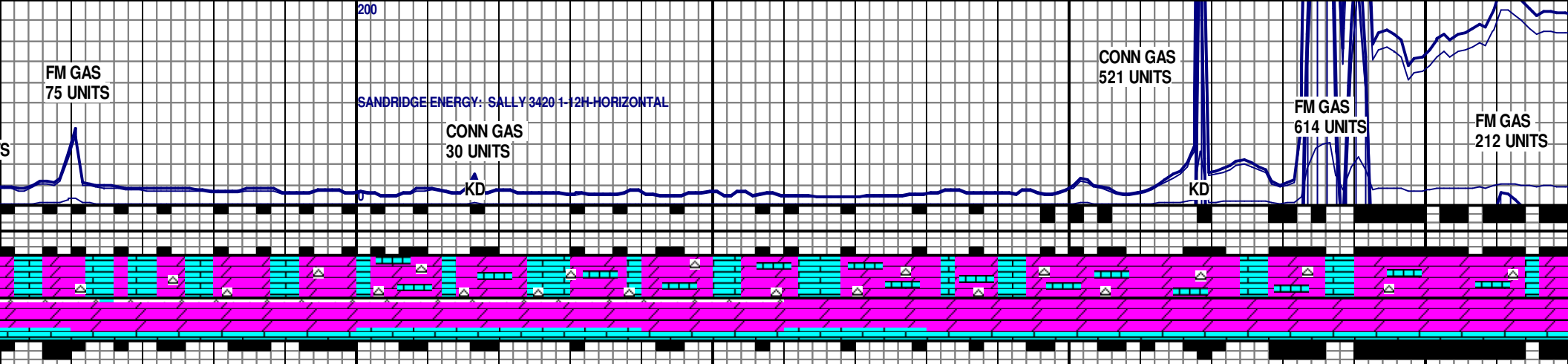
WHT, BLKY-PLTY, PRED MOD FRM- FRM, V FN- MIC FN XLN, HL  
 OFF WHT- WHT, BLKY-PLTY, MOD FRM- FRM, V FN- MIC FN XLN, HL  
 OFF WHT- WHT, HRD- V HRD, ANG-SHARP, SME SUB ANG, ABUN SCAT  
 MILKY WHT FLASH CUT, MED WHT RES RING

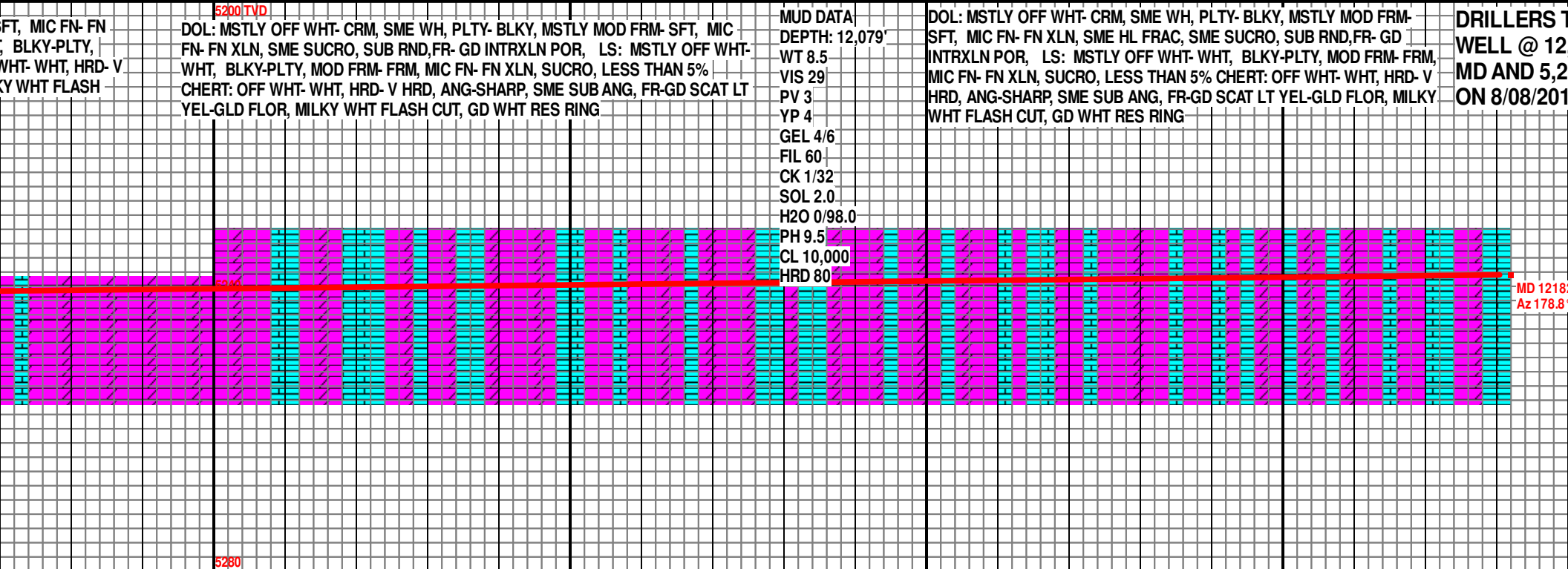
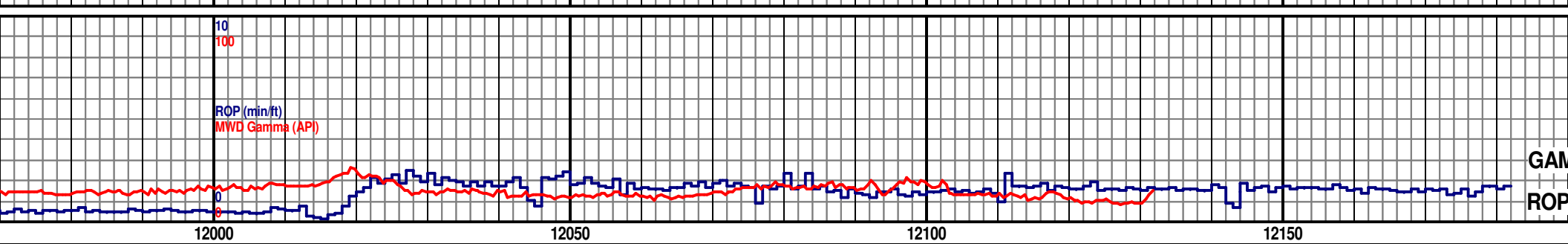
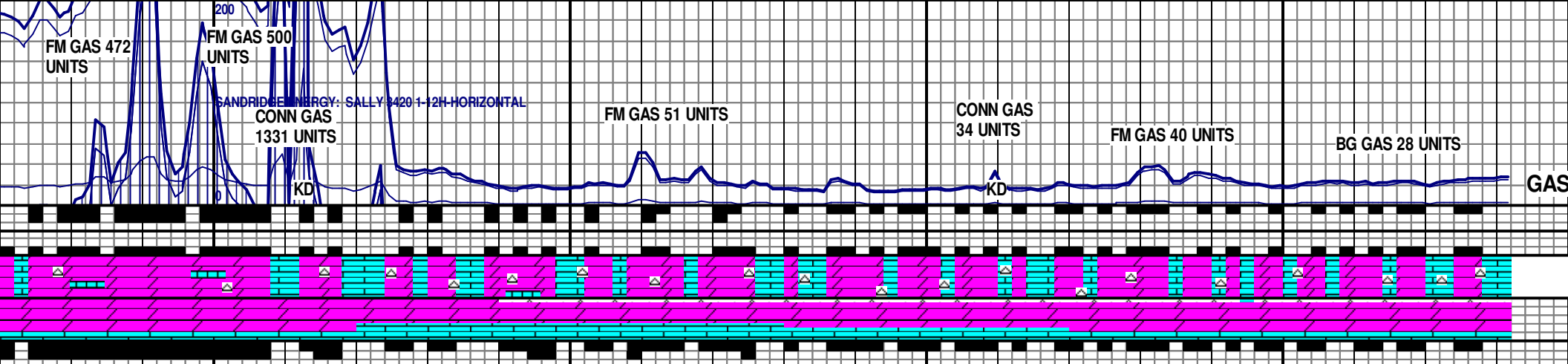
5200 TVD DOL: PRED WHT- OFF WHT, SME CRM, BLKY-PLTY, SUB RND, PRED MOD FRM-  
 FRM, SME SFT, V FN- MIC FN XLN, HL FRAC POR, FR-GD INTERXLN POR, LS:  
 PRED OFF WHT- WHT, BLKY-PLTY, MOD FRM- FRM, V FN- MIC FN XLN, HL FRAC  
 POR, CHERT: OFF WHT- WHT, HRD- V HRD, ANG-SHARP, SME SUB ANG, ABUN  
 SCAT LT YEL-GLD FLOR, FR-GD WH MLKY CUT, FR-GD WH/YEL RES RING

DOL: PRED WHT- OFF WHT, SME CRM, BLKY-PLTY, SUB RND, PRED MOD FRM-  
 FRM, SME SFT, V FN- MIC FN XLN, HL FRAC POR, FR-GD INTERXLN POR, LS:  
 PRED OFF WHT- WHT, BLKY-PLTY, MOD FRM- FRM, V FN- MIC FN XLN, HL FRAC  
 POR, CHERT: OFF WHT- WHT, HRD- V HRD, ANG-SHARP, SME SUB ANG, ABUN  
 SCAT LT YEL-GLD FLOR, FR-GD WH MLKY CUT, FR-GD WH/YEL RES RING

THE DIRECTIONAL MODULE ON THE  
 MWD TOOL FAILED. UNABLE TO DO  
 SURVEYS.







SFT, MIC FN- FN  
BLKY-PLTY,  
WHT- WHT, HRD- V  
KY WHT FLASH

DOL: MSTLY OFF WHT- CRM, SME WH, PLTY- BLKY, MSTLY MOD FRM- SFT, MIC FN- FN XLN, SME SUCRO, SUB RND, FR- GD INTRXLN POR, LS: MSTLY OFF WHT- WHT, BLKY-PLTY, MOD FRM- FRM, MIC FN- FN XLN, SUCRO, LESS THAN 5%  
CHERT: OFF WHT- WHT, HRD- V HRD, ANG-SHARP, SME SUB ANG, FR-GD SCAT LT YEL-GLD FLOR, MILKY WHT FLASH CUT, GD WHT RES RING

MUD DATA  
DEPTH: 12,079'  
WT 8.5  
VIS 29  
PV 3  
YP 4  
GEL 4/6  
FIL 60  
CK 1/32  
SOL 2.0  
H2O 0/98.0  
PH 9.5  
CL 10,000  
HRD 80

DOL: MSTLY OFF WHT- CRM, SME WH, PLTY- BLKY, MSTLY MOD FRM- SFT, MIC FN- FN XLN, SME HL FRAC, SME SUCRO, SUB RND, FR- GD INTRXLN POR, LS: MSTLY OFF WHT- WHT, BLKY-PLTY, MOD FRM- FRM, MIC FN- FN XLN, SUCRO, LESS THAN 5%  
CHERT: OFF WHT- WHT, HRD- V HRD, ANG-SHARP, SME SUB ANG, FR-GD SCAT LT YEL-GLD FLOR, MILKY WHT FLASH CUT, GD WHT RES RING

DRILLERS T  
WELL @ 12  
MD AND 5,2  
ON 8/08/201

MD 1218  
Az 178.8

5280

200

SANDRIDGE ENERGY: SALLY 3420 1-12H HORIZONTAL

0

10

100

ROP (min/ft)

MWD Gamma (API)

MMA/RED

0

0

12200

122

TD

5200 TVD

,182' SANDRIDGE ENERGY, INC

38' TVD Sally 3420 1-12H

2 SEC 12-34S-20W

COMANCHE CO, KS

GR 1,788' KB 1,808'

API# 15033216470100

2 TVD 5238.49240

Inc 90.6°

5280