



# GEOLOGIST

Name: Maggie Roden  
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Oklahoma City, Oklahoma 73102-6406

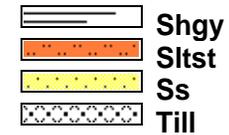
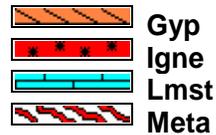
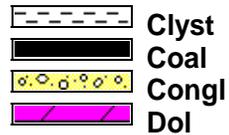
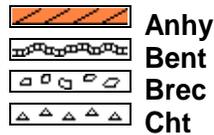
## Cores

## DSTs

## Comments

Trailer 28.

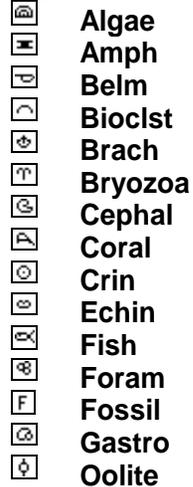
## ROCK TYPES



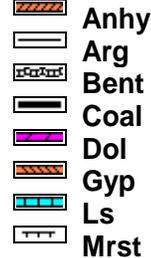
## MINERAL



## FOSSIL



## STRINGER



## TEXTURE



**OTHER SYMBOLS**

**POROSITY**

- E Earthy
- Fenest
- F Fracture
- X Inter
- ⊗ Moldic
- Organic
- P Pinpoint

- V Vuggy

**SORTING**

- W Well
- M Moderate
- P Poor

**ROUNDING**

- R Rounded
- r Subrnd
- a Subang
- A Angular

**OIL SHOW**

- Even

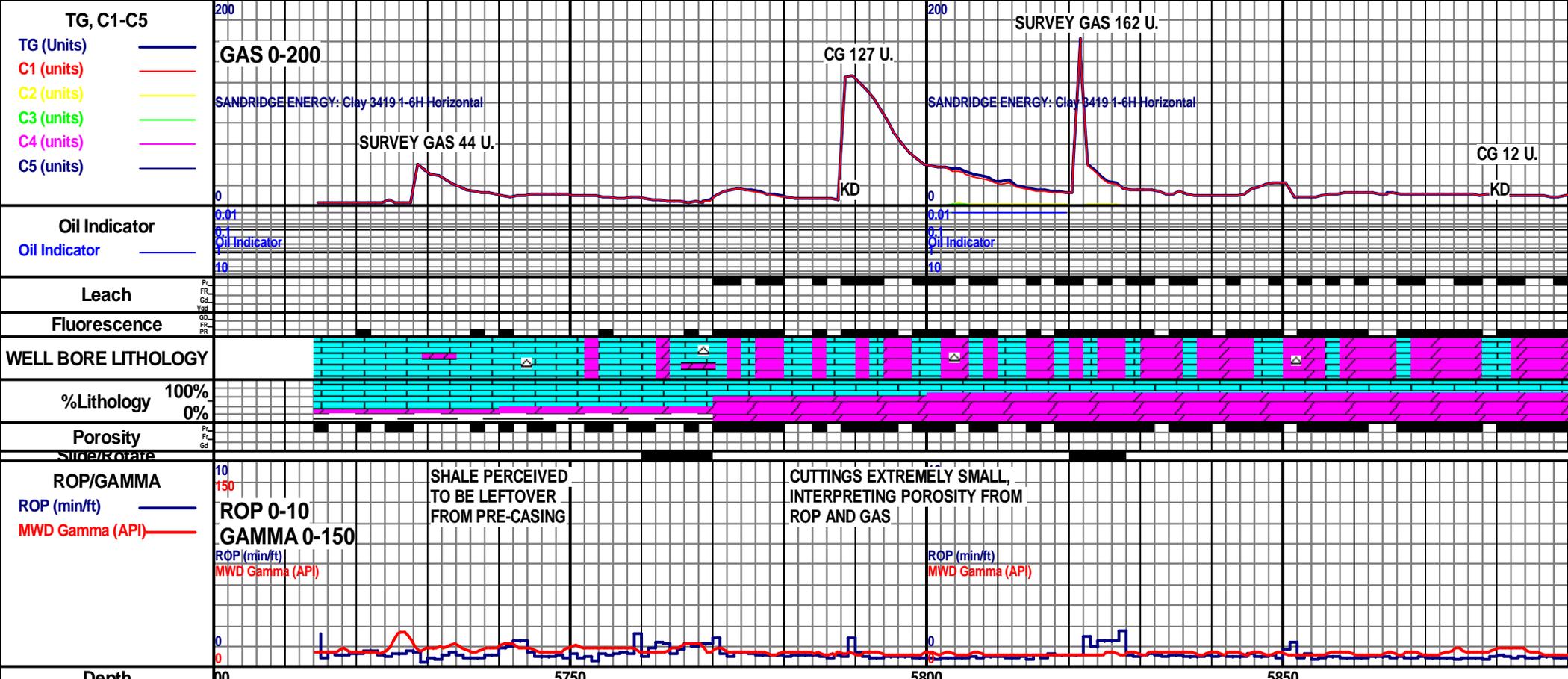
- Spotted
- Ques
- D Dead

**INTERVAL**

- Core
- Dst

**EVENT**

- ▽ Rft
- ▴ Sidewall



**Well Bore Cross Section**

**SANDRIDGE ENERGY, INC.**  
**CLAY 1-6H**  
**SEC. 6-T34S-R19W OF**  
**COMMANCHE CO., KS**  
**GE: 2,747' KB: 2,767'**  
**7" CASING SET @ 5,417' MD**  
**3/21/2013**

**DRILLING W/ BIT #5, 6.125",**  
**HALIBURTON, FX54D, SS#**  
**11907294, JETS 5X12, IN @ 5,714'**  
**MOTOR BEND: 1.5 REVS**  
**PER GALLON: .63**

**WOB: 3.2**  
**RPM: 54**  
**PP: 2037**  
**SPM: 71**

**MUD CK @: 5,843'**  
**MW: 8.50**  
**FV: 40**  
**PV: 6**  
**YP: 11**  
**GEL: 8/12/18**  
**API: 4.2**  
**CAKE: 2/0**

**SOL: 1.0**  
**OIL/WAT: 0.0/98.6**  
**PH: 11.5**  
**MA: 1.40**  
**FA: 0.40/0.8**  
**CHL: 4,000**  
**LCM: -**

**MD 5740 TVD 5262.48**  
**INC 88.9 AZ 359.4**  
**VS 871.85**

**MD 5770 TVD 5262.88**  
**INC 89.6 AZ 359.1**  
**VS 901.84**

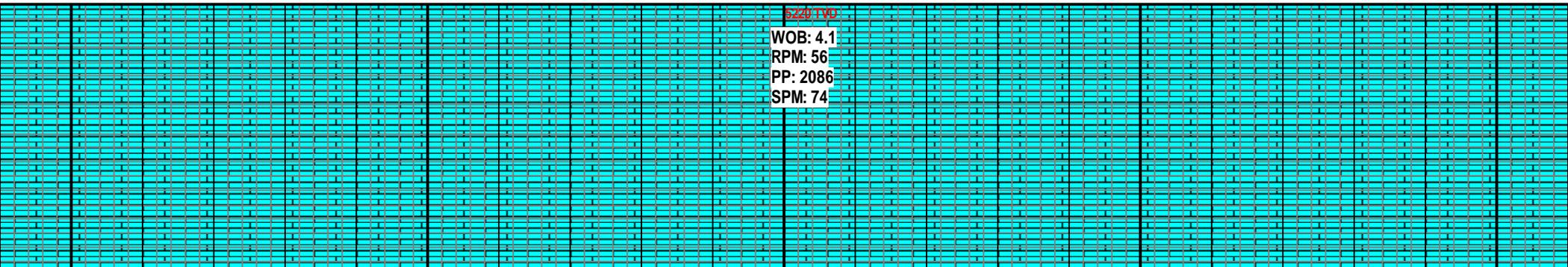
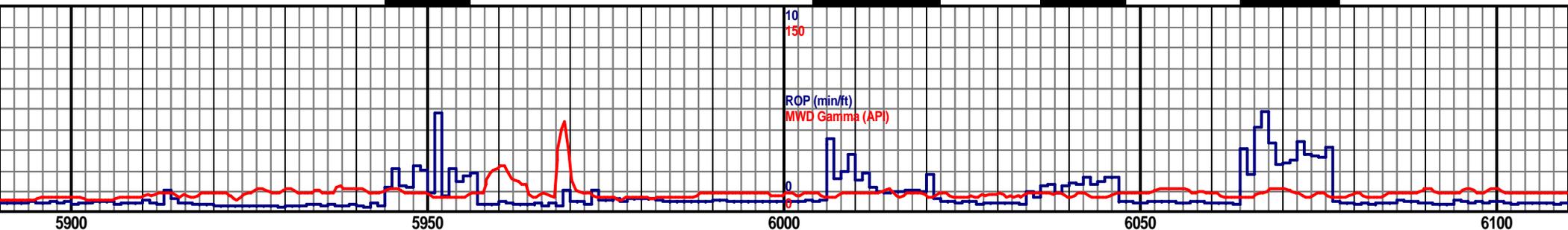
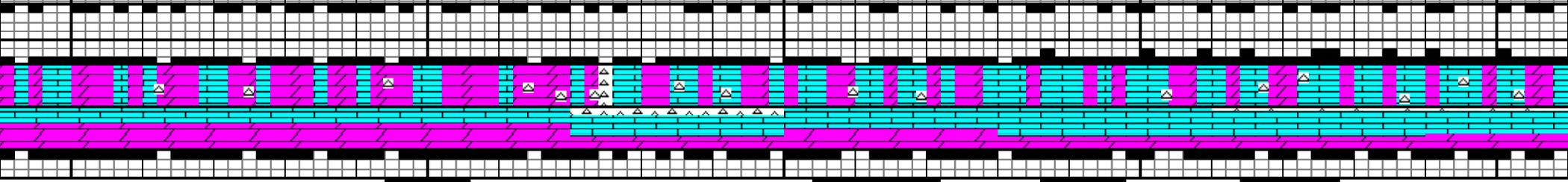
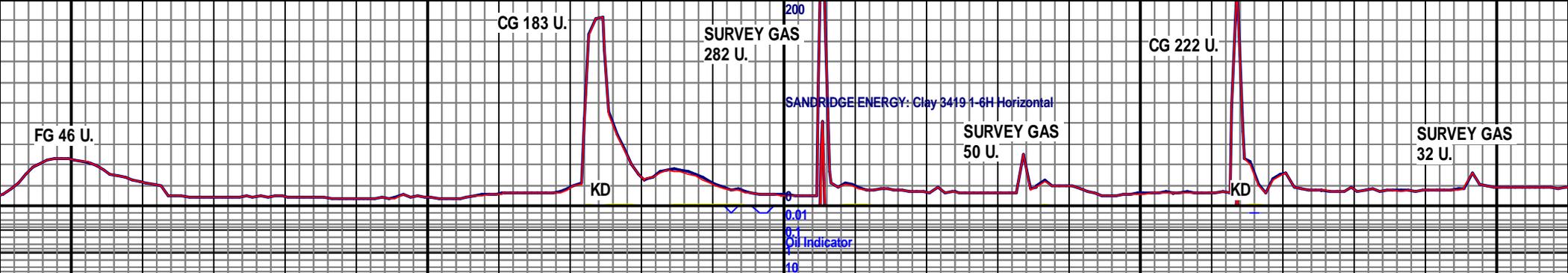
**MD 5801 TVD 5263.01**  
**INC 89.9 AZ 359**  
**VS 932.84**

**MD 5831 TVD 5262.91**  
**INC 90.5 AZ 359.6**  
**VS 962.83**

**MD 5862 TVD 5262.61**  
**INC 90.6 AZ 359.8**  
**VS 993.83**

**LS: DCRSNG, WHT, SME OFF WHT, OCC LT GRY, FRM- MOD FRM, SUBANG-SUBRND, TR ANG, MIC FN- V FN XLN, DOLO LS: INCRSNG, PRED WHT, SME WHT-OFF WHT, OCC CRM, TR LT GRY, FRM- MOD FRM, SUBRND- SUBANG, MIC FN- OCC V FN XLN, TR CHRT: PRED CLR, OCC OPQ- FRSTD, V HRD, ANG, SME BRI LT BLU W/ SLI LT GRN/YEL TNT FLOR, V PR V FNT MLKY- NO CUT, NO VIS RESD RING**

**DOLO LS: PRED WHT, SME WHT- OFF WHT, OCC CRM, OCC DRT GRY, MOD FRM- SLI FRM, SUBRND, MSTLY MIC FN XLN, TR V FN OFF WHT- LT GRY, SME WHT, FRM- MOD FRM, SME SLI FRM, SU SUBRND, PRED MIC FN XLN, SLI TR CHRT: TRNSL- CLR, OCC OF FRM- HRD, SME SCAT LT BLU- LT YEL/GRN FLOR THRU OUT, PR MLKY CUT, V PR V THN FNT LT BLU RESD RING**



WOB: 4.1  
RPM: 56  
PP: 2086  
SPM: 74

MD 5892 TVD 5262.24  
INC 90.8 AZ 359.3  
VS 1023.83

MD 5923 TVD 5261.54  
INC 91.8 AZ 359.7  
VS 1054.82

MD 5953 TVD 5260.55  
INC 92 AZ 359.4  
VS 1084.8

MD 5984 TVD 5259.46  
INC 92 AZ 358.4  
VS 1115.77

MD 6014 TVD 5258.47  
INC 91.8 AZ 359.4  
VS 1145.75

MD 6045 TVD 5257.85  
INC 90.5 AZ 359.9  
VS 1176.74

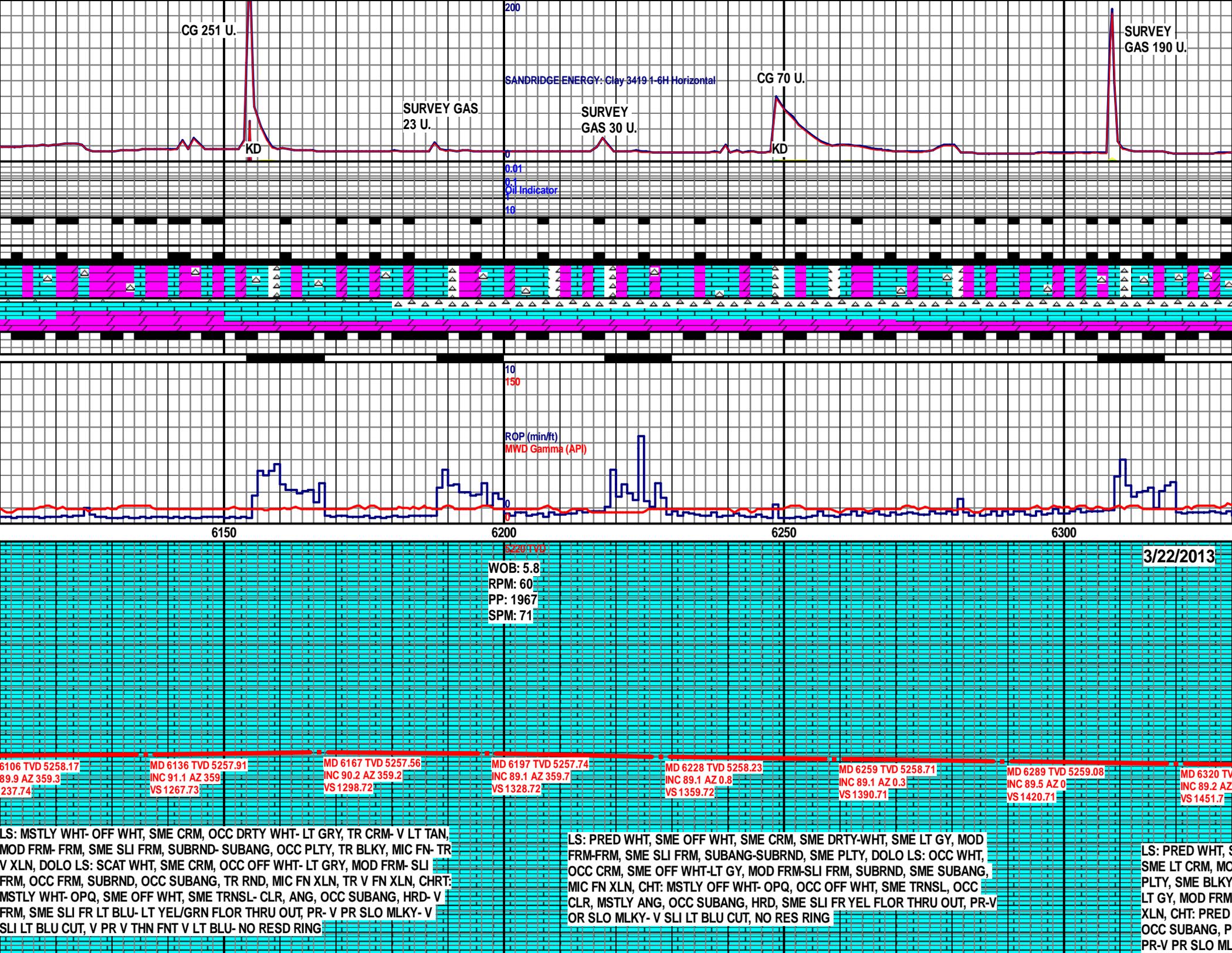
MD 6075 TVD 5257.93  
INC 89.2 AZ 359.9  
VS 1206.74

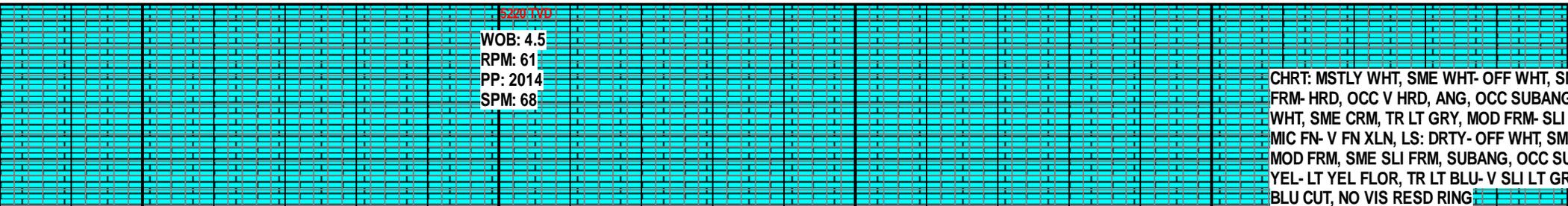
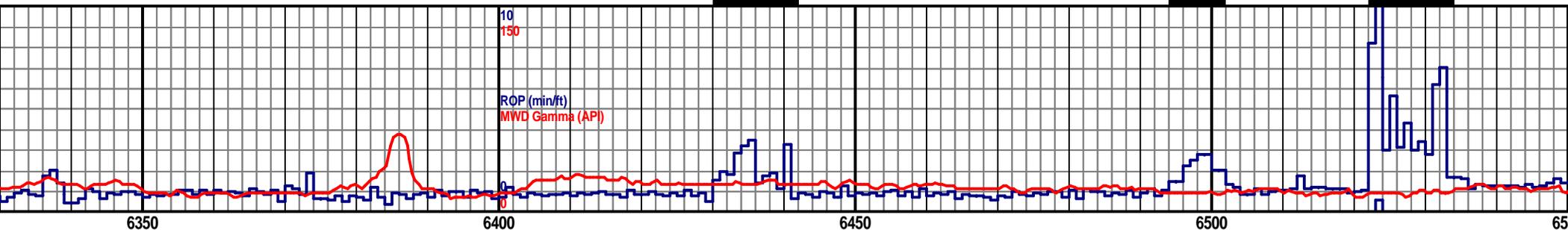
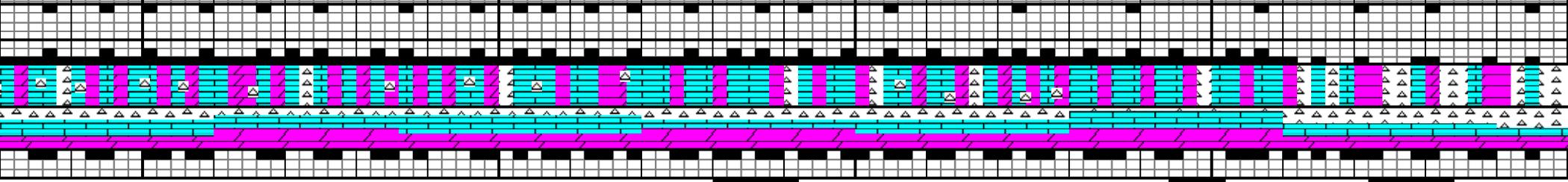
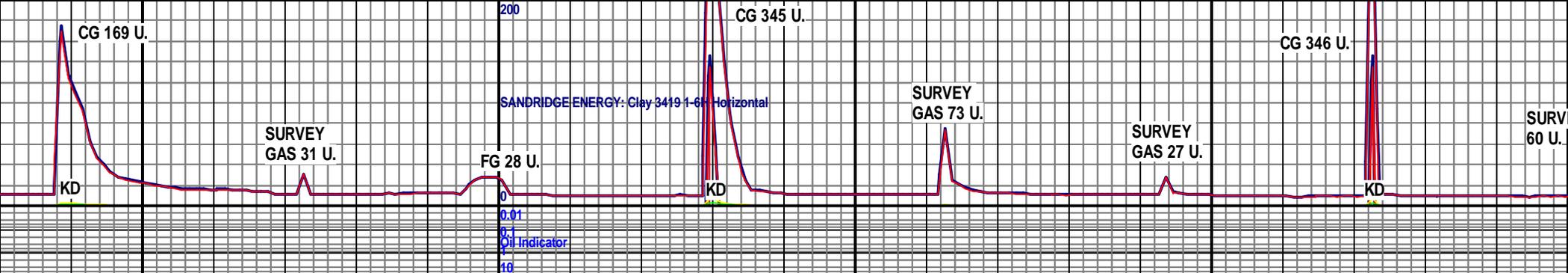
MD  
INC  
VS 1

Y WHT- LT  
XLN, LS:  
BANG-  
F WHT, V  
SLO

DOLO LS: SLI DCRSE, MSTLY WHT, SME WHT- CRM, OCC DRTY- OFF WHT, OCC LT GRY, SLI TR LT TAN, MOD FRM- SLI FRM, OCC FRM, SUBRND- SUBANG, PRED MIC FN XLN, TR V FN XLN, LS: SLI INCRSE, SME WHT, SME OFF WHT- LT GRY, OCC CRM- LT GRY, FRM- MOD FRM, SME SLI FRM, SUBANG- SUBRND, TR ANG, MIC FN XLN, OCC V FN XLN, CHRT: TR- SLI INCRSE, CLR, OCC OFF WHT, TR LT GRY- SLI SMKY, V FRM- HRD, ANG- SUBANG, SME LT BLU/BLU- LT YEL/GRN FLOR THRU OUT, PR- V PR SLO MLKY- V SLI LT BLU CUT, V PR V THN LT BLU RESD RING

LS: PRED WHT, SME WHT- OFF WHT THRU OUT, OCC DRTY WHT- LT GRY, OCC CRM, FRM- MOD FRM, SME SLI FRM, TR V FRM, SUBANG- SUBRND, TR RND, TR BLKY, MIC FN XLN, TR V FN XLN, DOLO LS: WHT, SME WHT- CRM, OCC OFF WHT- LT GRY, MOD FRM- SLI FRM, OCC FRM, SUBRND, OCC SUBANG, MIC FN XLN, CHRT: DCRSE TO SLI TR, OPQ- OFF WHT, OCC WHT, OCC CLR, ANG, HRD- V FRM, SME FR MOD BRI LT BLU- LT YEL/GRN FLOR THRU OUT, PR- V PR SLO MLKY- SLI LT BLU CUT, V PR THN DLL LT BLU RESD RING



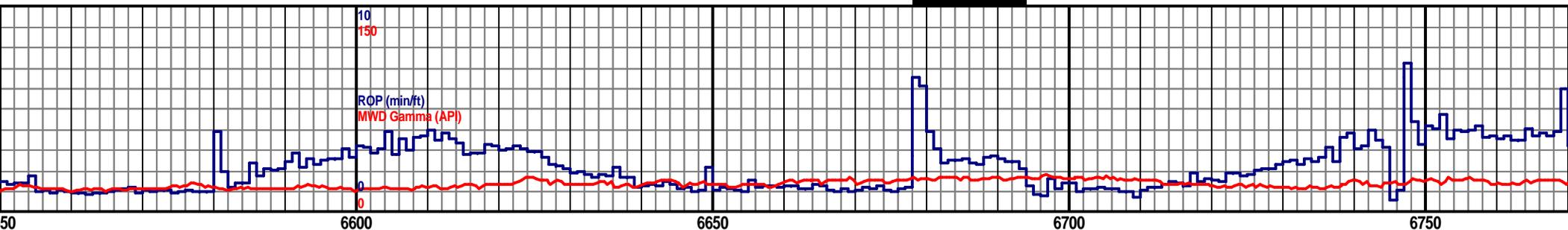
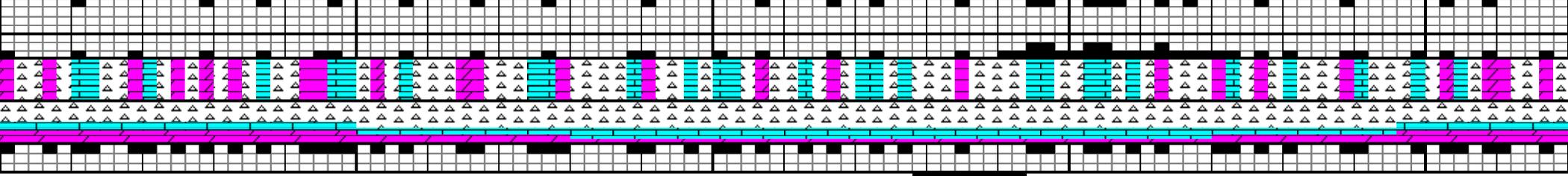
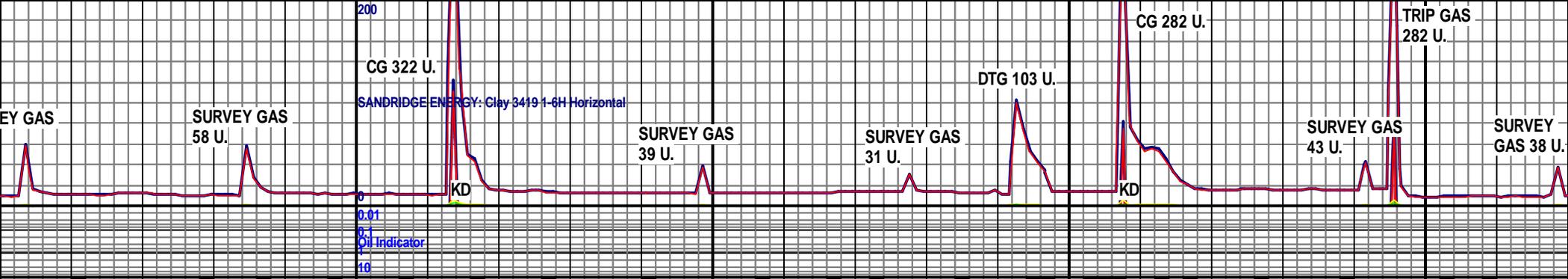


MD	TVD	INC	AZ	VS
MD 5259.43	5259.43	1.6		
MD 6350	5260.01	88.6	1.5	1481.69
MD 6381	5260.68	88.9	0.9	1512.68
MD 6411	5261.31	88.7	1.2	1542.67
MD 6442	5262.2	88	1.6	1573.65
MD 6472	5263.36	87.6	1.5	1603.61
MD 6503	5264.3	88.9	2.4	1634.58
MD 6533	5264.7	89.4	2	1664.56

LS: MSTLY WHT, SME OFF WHT, SME CRM, OCC DRTY-WHT, SME LT GY, MOD FRM-RM, OCC SLI FRM, SUBANG-SUBRND, OCC TRNSL, DOLO LS: SME WHT, SME CRM, SME OFF WHT, SME OFF WHT-OPQ, OCC TRNSL, OCC CLR, PRED ANG, PRED HRD, SME V FRM, SME SLI PR-FR YEL FLOR, PR- V PR SLO MLKY- LT BLU CUT, NO RES RING

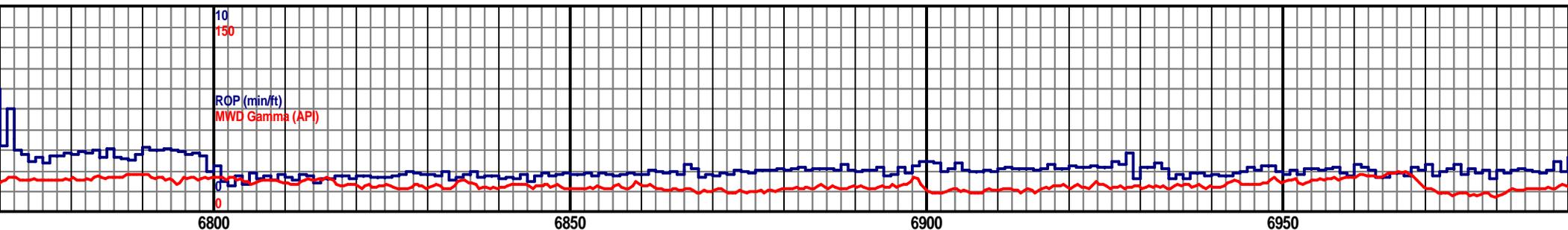
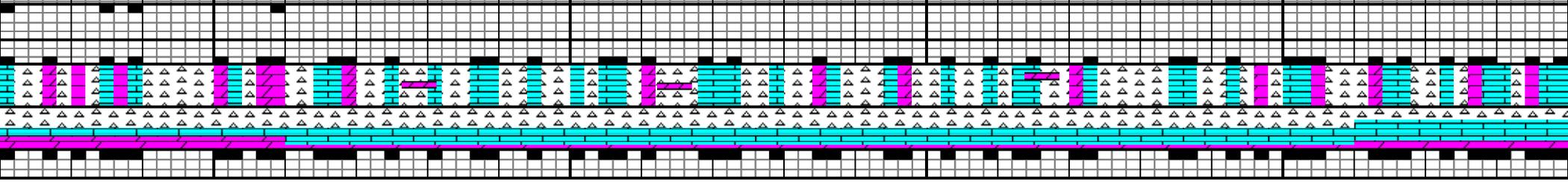
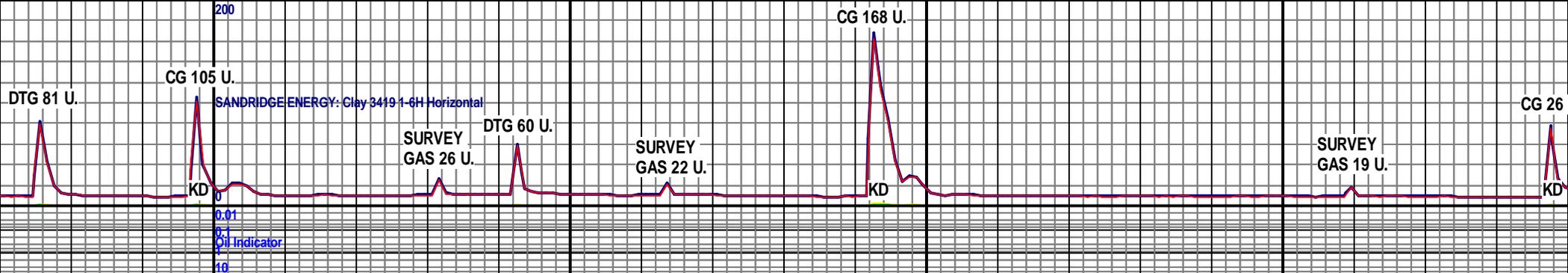
LS: MSTLY WHT, SCAT OFF WHT, SME CRM, SME DRTY WHT, OCC LT GY, SME OFF WHT-CRM, MOD FRM-FRM, SME SLI FRM, SUBANG-SUBRND, SME PLTY, OCC BLKY, SCAT CHNKY, DOLO LS: SME WHT, OCC OFF WHT, OCC CRM, OCC LT GY, MOD FRM, PRED SUBRND, OCC SUBANG, MIC FN XLN, CHT: PRED OFF WHT, SME OPQ, SME TRNSL, OCC CLR, PRED AND, SME SUBANG, HRD, OCC V FRM, SME SLI PR-FR YEL FLOR, PR- V PR SLO MLKY- LT BLU CUT, NO RES RING

CHRT: MSTLY WHT, SME WHT- OFF WHT, SME FRM- HRD, OCC V HRD, ANG, OCC SUBANG WHT, SME CRM, TR LT GRY, MOD FRM- SLI MIC FN- V FN XLN, LS: DRTY- OFF WHT, SME MOD FRM, SME SLI FRM, SUBANG, OCC SU YEL- LT YEL FLOR, TR LT BLU- V SLI LT GR BLU CUT, NO VIS RESD RING



5240 TVD	3/23/2013						
WOB: 20.7	<b>TOH @ 6,746' MD FOR NEW BIT</b> DRILLING W/ BIT #6, 6.125", SMITH, XR40Y, SS# PX2820, JETS 3X16, IN @ 6,746' MOTOR BEND: 1.75 REVS PER GALLON: .26						
RPM: 50							
PP: 1681							
SPM: 70	CHRT: WHT- OFF WHT, SME CRM- OPQ, OCC OPQ- CLR, V FRM- HRD, OCC V HRD, TR BRIT, ANG, OCC SUBANG, BLKY, DOLO LS: WHT, SME WHT- OFF WHT, SME CRM, TR LT GRY, MOD FRM, SME SLI FRM, OCC FRM, SUBRND- OCC SUBANG, MSTLY MIC FN XLN, OCC- TR V FN XLN, LS: OFF WHT, SME WHT- CRM, OCC OFF WHT- LT GRY, MSTLY FRM, SME SLI FRM- MOD FRM, SUBANG, OCC SUBRND, MIC FN- V FN XLN, TR YEL, BLU/LT BLU- V SLI LT GRN FLOR, V SLO V FNT V PR MLKY- SLI LT BLU CUT, NO VIS RESD RING						
5260	MD 6564 TVD 5265.04 INC 89.5 AZ 2.1 VS 1695.54	MD 6596 TVD 5265.32 INC 89.5 AZ 1.4 VS 1727.53	MD 6627 TVD 5265.95 INC 88.2 AZ 1.3 VS 1758.51	MD 6659 TVD 5266.87 INC 88.5 AZ 0.7 VS 1790.5	MD 6691 TVD 5267.2 INC 90.3 AZ 1.5 VS 1822.49	MD 6719 TVD 5266.88 INC 91 AZ 1.9 VS 1850.47	MD 6751 TVD 5266.35 INC 90.9 AZ 1.8 VS 1882.46

MUD CK @: 6,621		SOL: 0.7		CHRT: PRED OFF WHT- WHT, SME CRM, OCC OPQ- V LT GRY, O	
MW: 8.50		OIL/WAT: 0.0/98.7		HRD, OCC V HRD, TR BRIT, ANG, TR SUBANG, BLKY, LS: MSTLY	
FV: 31		PH: 11.0		WHT, OCC LT GRY, SCAT FRM, SME SLI FRM- MOD FRM, SUBAN	
PV: 2		MA: 0.80		MSTLY MIC FN XLN, TR V FN XLN, DOLO LS: WHT, SME CRM- W	
YP: 5		FA: 0.30/0.5		LT GRY, MOD FRM- SLI FRM, SUBANG- SUBRND, MIC FN XLN, T	
GEL: 2/3/5					



5230 TVD  
 WOB: 19.8  
 RPM: 56  
 PP: 1226  
 SPM: 60

CHRT: MSTLY WHT, SME LT GRY, SME CRM- SLI OPQ, OCC OPQ- SLI CLR, TR TRNSL, HRD, SME V FRM, OCC V HRD, SLI TR BRIT, ANG, BLKY, LS: OFF WHT, SME CRM, SME WHT, FRM- MOD FRM, SME SLI FRM, TR V FRM, SUBANG- SUBRND, TR ANG, MIC FN XLN, TR V FN XLN, DOLO LS: WHT, SME CRM, OCC LT GRY- OFF WHT, MOD FRM- SLI FRM, TR CRMBLY, SUBRND, OCC SUBANG, MIC FN- V FN XLN, DCRSNG FLOR, PR YEL- GLD, OCC BLU- LT BLU FLOR, NO VIS CUT, NO RESD RING

CHRT: SME OPQ- SLI TRNSL, SME WHT, OCC OFF WHT- CRM, HRD- V HRD, SLI TR BRIT, ANG, MSTLY BLKY, LS: MSTLY OFF WHT, SME CRM- WHT, SLI FRM- MOD FRM, OCC FRM, TR V FRM, SUBANG- SUBRND, TR ANG, MIC FN XLN, OCC- TR V FN XLN, DOLO LS: WHT, SME CRM, OCC OFF WHT- SLI LT GRY, MOD FRM- SLI FRM, TR FRM, TR CRMBLY, SUBRND- SUBANG, MIC FN- V FN XLN, OCC PR YEL- LT YEL FLOR, TR GLD FLOR, NO VIS CUT, NO RESD RING

MD 6782 TVD 5265.89  
 INC 90.8 AZ 2.1  
 VS 1913.44

MD 6814 TVD 5265.42  
 INC 90.9 AZ 1.9  
 VS 1945.42

MD 6846 TVD 5264.92  
 INC 90.9 AZ 1.6  
 VS 1977.4

MD 6877 TVD 5264.43  
 INC 90.9 AZ 1.4  
 VS 2008.39

MD 6909 TVD 5263.98  
 INC 90.7 AZ 1.1  
 VS 2040.38

MD 6941 TVD 5263.62  
 INC 90.6 AZ 1.3  
 VS 2072.37

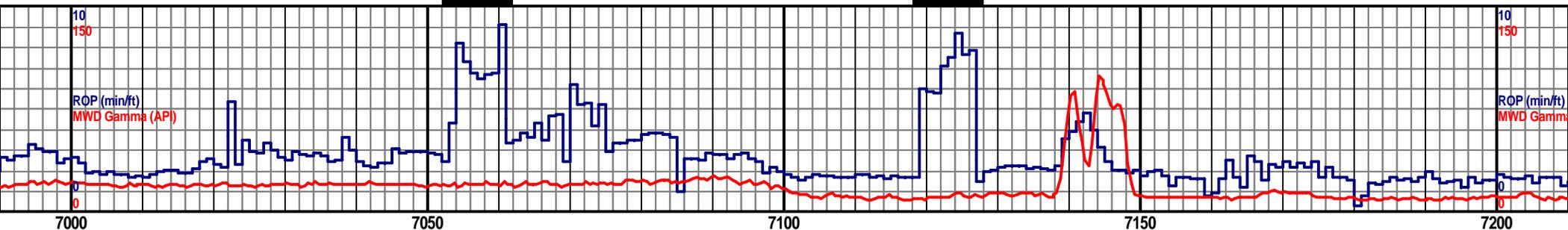
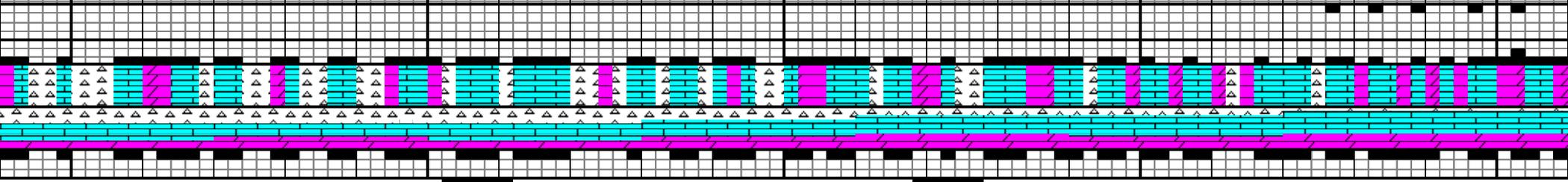
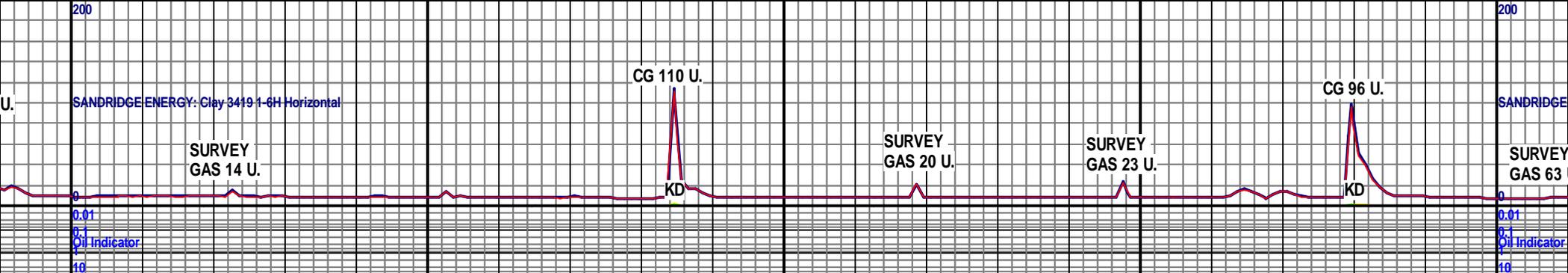
MD 6972 TVD 5263.3  
 INC 90.6 AZ 1  
 VS 2103.36

OCC OPQ- CLR, V FRM- OFF WHT- CRM, SME LG, OCC SUBRND, WHT, OCC DRTY WHT- R V FN XLN, OCC YEL-

MUD CK @: 6,900  
 MW: 8.50  
 FV: 30  
 PV: 1  
 YP: 3  
 GEL: 1/2/0

SOL: 0.9  
 OIL/WAT: 0.0/98.7  
 PH: 9.0  
 MA: 0.30  
 FA: 0.15/0.3

SWEEP RECIPE (80 BBLs) CONTAINS



5230 TVD

WOB: 26  
RPM: 61  
PP: 1315  
SPM: 63

CHT: SME WHT, OCC OPQ, SME TRANSL, SME OFF WHT, HRD-V HRD, PRED ANG, OCC SUBANG, MSTLY BLKY, OCC CHNKY, LS: PRED WHT-OFF WHT, SME CRM, SLI FRM- MOD FRM, SUBANG, SME SUBRND, MIC FN XLN, DOLO LS: LT GY-WHT, OCC CRM, SME GY, MOD FRM-FRM, SUBRND-SUBANG, SME PR YEL FLOR, NO CUT, NO RES RING

3/24/2013

LS: PRED WHT- OFF WHT, OCC CRM, SLI FRM-MOD FRM, SUBANG, OCC SUBRND, DOLO LS: LT GY-WHT, SME CRM, MOD FRM-FRM, SUBRND-SUBANG, CHT: OCC WHT, OCC OPQ, SME TRANSL, SME OFF WHT, HRD-V HRD, PRED ANG, OCC SUBANG, TR DUL YEL FLOR, V PR V DLL V SLO MLKY- V SLI LT BLU- NO CUT, NO RES RING

5230 TVD

WOB: 23.7  
RPM: 60  
PP: 1164  
SPM: 60

MD 7004 TVD 5263.18  
INC 89.8 AZ 0.7  
VS 2135.36

MD 7036 TVD 5263.55  
INC 88.9 AZ 0.1  
VS 2167.36

MD 7067 TVD 5264.03  
INC 89.3 AZ 0  
VS 2198.35

MD 7099 TVD 5264.45  
INC 89.2 AZ 359.7  
VS 2230.35

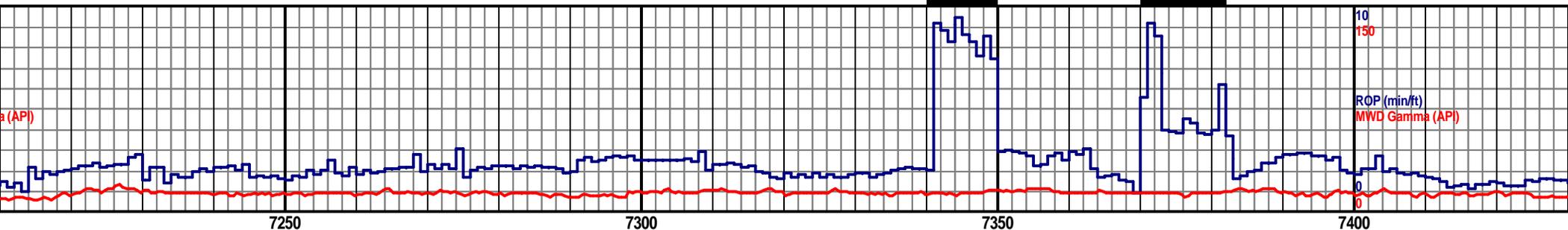
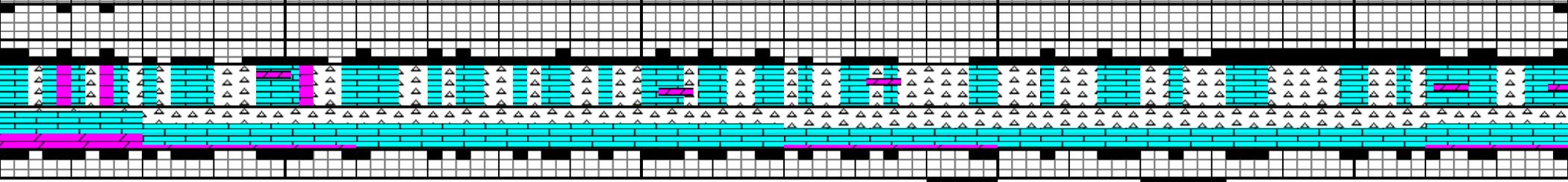
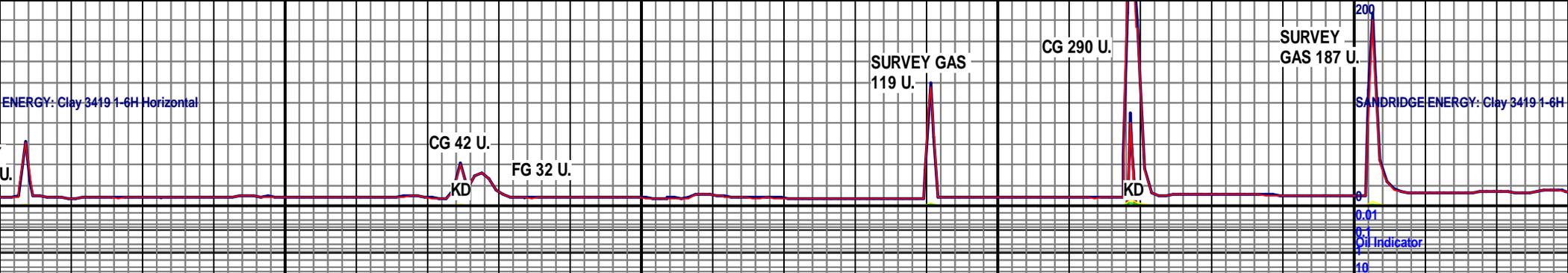
MD 7131 TVD 5264.51  
INC 90.6 AZ 359.4  
VS 2262.35

MD 7162 TVD 5264.1  
INC 90.9 AZ 0.3  
VS 2293.34

MD 7194 TVD 5263.7  
INC 91 AZ 0.1  
VS 2325.34

5260

5260



CHRT: MSTLY CLR- TRNSL, SME OPQ- SLI CLR, TR WHT- OFF WHT, HRD- V HRD, OCC V FRM, SLI TR BRIT, ANG, SHRP, BLKY, LS: OFF WHT- WHT, SME CRM, OCC OFF WHT- LT GRY, MOD FRM, SME SLI FRM- OCC FRM, SUBRND, OCC SUBANG, MIC FN- V FN XLN, DOLO LS: DCRSE, WHT- OFF WHT, OCC OFF WHT- V SLI LT GRY, MOD FRM- SLI FRM, TR FRM, TR CRMBLY, MSTLY SUBRND, MIC FN- V FN XLN, SME PR- FR YEL- LT YEL FLOR, OCC PR BLU- LT BLU FLOR, V PR V SLO V FNT MLKY- NO CUT, NO RESD RING

CHRT: PRED CLR, OCC OPQ, TR WHT- OFF WHT, HRD- V HRD, SLI TR BRIT, ANG, SHRP, LS: MSTLY WHT, SME OFF WHT- CRM, TR LT GRY, MOD FRM- SLI FRM, OCC FRM, SUBRND- OCC SUBANG, MIC FN XLN, TR V FN XLN, DOLO LS: SLI TR, WHT- OFF WHT, MOD FRM- SLI FRM, TR FRM, SUBRND, MIC FN- OCC V FN XLN, SME PR- SLI FR YEL- LT YEL FLOR, OCC PR BLU FLOR, NO VIS CUT, NO RESD RING

WOB: 25.4  
RPM: 50  
PP: 1633  
SPM: 71  
LS: PRED  
FRM- SLI F  
MSTLY CL  
HRD, PRE  
LT GY, MO  
MLKY-LT E



MD 7226 TVD 5263.07  
INC 90.8 AZ 0  
VS 2357.34

MD 7258 TVD 5262.76  
INC 90.3 AZ 0.5  
VS 2389.33

MD 7289 TVD 5262.71  
INC 89.9 AZ 0.4  
VS 2420.33

MD 7321 TVD 5262.79  
INC 89.8 AZ 359.9  
VS 2452.33

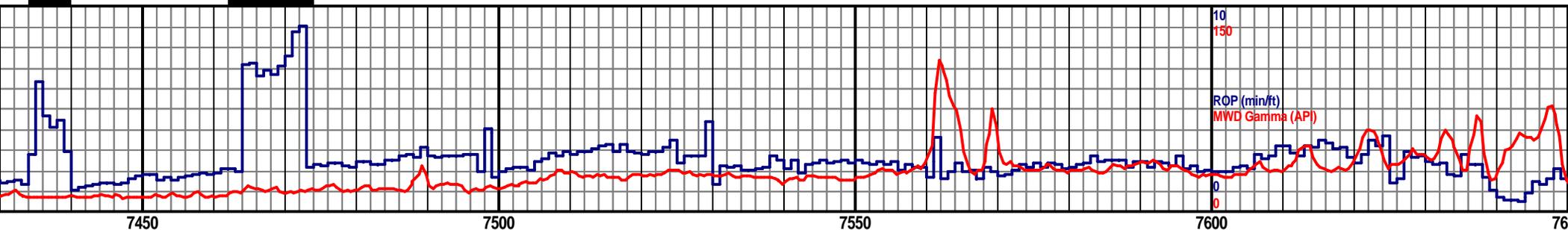
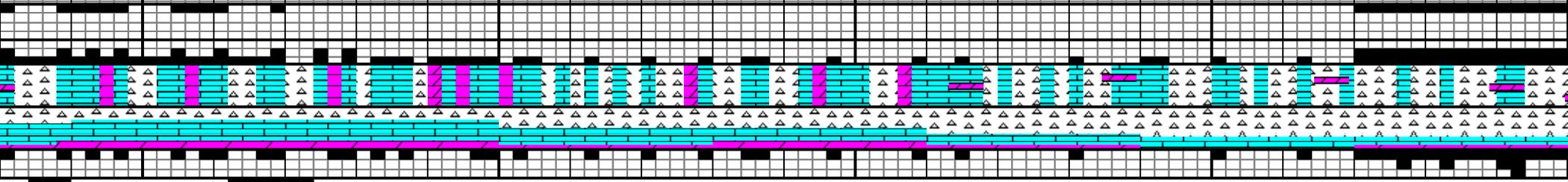
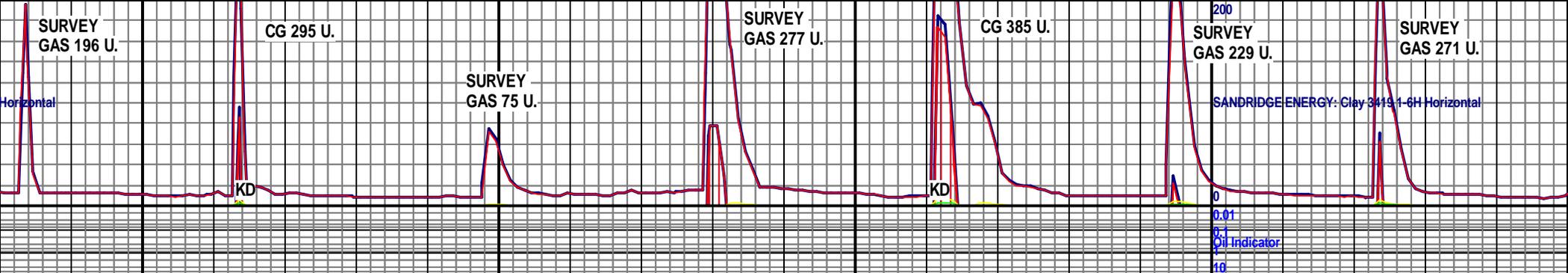
MD 7352 TVD 5262.44  
INC 91.5 AZ 0  
VS 2483.33

MD 7384 TVD 5260.96  
INC 93.8 AZ 359.4  
VS 2515.29

MD 7416 TVD 5260.96  
INC 94.9 AZ 359.4  
VS 2547.2

MUD CK @: 7,342'  
MW: 8.50  
FV: 30  
PV: 2  
YP: 2  
GEL: 1/2/0  
SOL: 0.8  
OIL/WAT: 0.0/98.7  
PH: 8.9  
MA: 0.20  
FA: 0.10/0.25

SWEEP RECIPE (80 BBLs) CONTAINS



3/25/2013

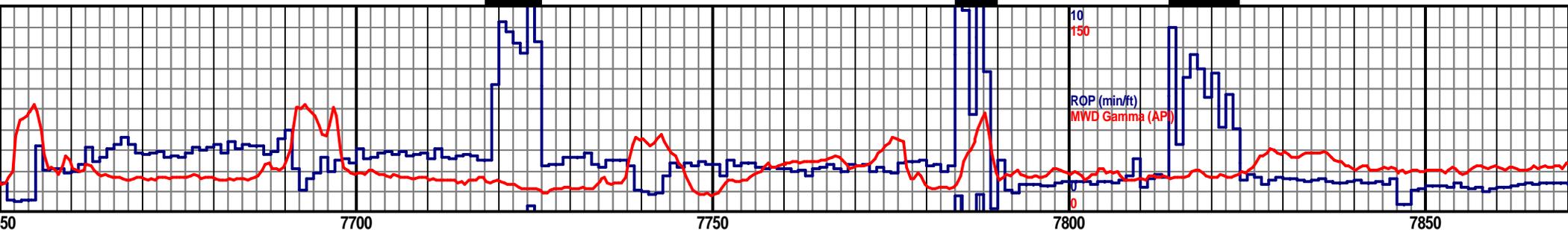
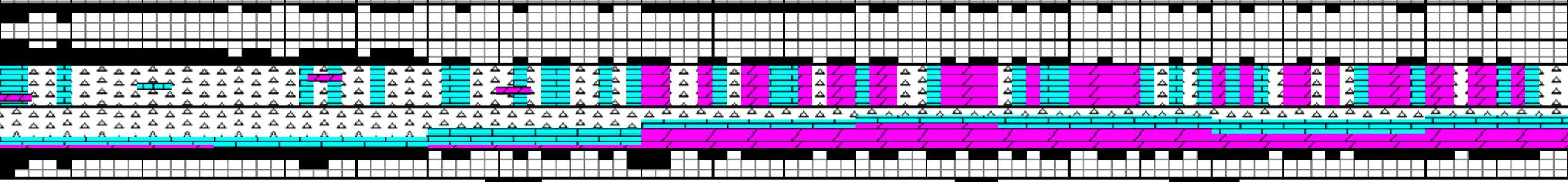
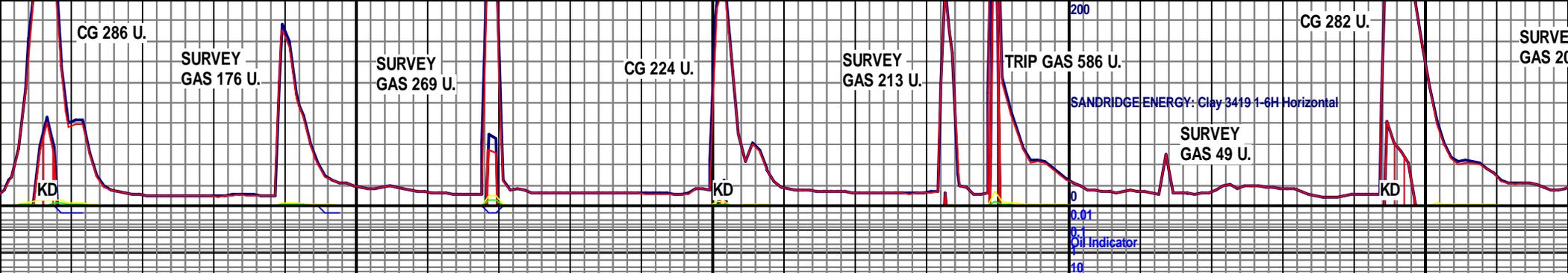
WHT, OCC OFF WHT, SME CRM, OCC LT GY, MOD  
 FRM, OCC FRM, SUBANG-SUBRND, MIC FN XLN, CHT:  
 R-OPQ, OCC TRNSL, SME WHT, PRED HRD, SME V  
 D ANG, OCC SUBANG, DOLO LS: WHT-OFF WHT, SME  
 D FRM, SUBRND, SME PR-FR YEL FLOR, PR -SLO  
 BLU CUT, FT MLKY WHT RES RING

CHT: PRED WHT-TRANSL, OCC OPQ, SME CLR, HRD- V  
 HRD, PRED ANG, OCC SUBANG, LS: MOSTLY WHT, SME  
 OFF WHT, OCC LT GY, MOD FRM-SLI FRM, SUBANG,  
 SME SUBRND, MIC FN XLN, DOLO LS: WHT, SME OFF  
 WHT, MOD FRM, SME PR YEL FLOR, NO CUT, NO RES  
 RING

WOB: 30.6  
 RPM: 65  
 PP: 1315  
 SPM: 88

CHRT: PRED CLR- OPQ, SME TRNSL, S  
 FRM, TR BRIT, ANG, OCC V LT TAN/AME  
 LT GRY, MOD FRM- FRM, SME SLI FRM,  
 DOLO LS: TR, WHT, OCC OFF WHT- LT  
 TR VIS INTRXLN POR, FLOR: STRNG IN  
 SLI FR- PR SLO LT BLU- SLI MLKY CUT,

MD 7447 TVD 5256.1 INC 94.1 AZ 359.2 VS 2578.1	MD 7479 TVD 5254.51 INC 91.6 AZ 359 VS 2610.05	MD 7511 TVD 5253.7 INC 91.3 AZ 359.3 VS 2642.04	MD 7542 TVD 5253.05 INC 91.1 AZ 359 VS 2673.03	MD 7574 TVD 5252.63 INC 90.4 AZ 359.1 VS 2705.02	MD 7606 TVD 5252.49 INC 90.1 AZ 359.2 VS 2737.01	MD 7637 TVD 5252.49 INC 90.1 AZ 359.2 VS 2768.01
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ME OPQ- OFF WHT, OCC WHT, HRD, OCC V  
 RR STN, LS: PRED OFF WHT, SME WHT, OCC  
 SUBANG- SUBRND, MIC FN- OCC V FN XLN,  
 GRY, TR CRM, MOD FRM- SLI FRM, SUBRND,  
 INCRSE TO SLI GD SCAT BRI BLU- LT BLU, V  
 PR MED BLU RESD RING

**3/26/2013**

**TOH @ 7,790' MD FOR  
 NEW BIT & MOTOR**

DRILLING W/ BIT #7, 6.125", SMITH,  
 EQH43R, SS# 11991220, JETS 3X16,  
 IN @ 7,790'

MOTOR BEND: 1.50  
 REVS PER GALLON: 0.26

5220 TVD  
 WOB: 17.4  
 RPM: 63  
 PP: 1475  
 SPM: 95

BYPASSING SHAKER SCREENS.  
 ABUNDANT MUD ADDITIVES.  
 POOR SAMPLE QUALITY.

252.44 3.8	MD 7669 TVD 5252.35 INC 90.2 AZ 358.7 VS 2800	MD 7701 TVD 5252.27 INC 89.1 AZ 358.3 VS 2831.98	MD 7732 TVD 5252.38 INC 89.5 AZ 359.4 VS 2862.97	MD 7764 TVD 5252.69 INC 89.4 AZ 358.9 VS 2894.97	MD 7796 TVD 5252.85 INC 90 AZ 359.6 VS 2926.96	MD 7827 TVD 5252.85 INC 90 AZ 1 VS 2957.96	MD 7859 TVD INC 90.1 AZ 1 VS 2989.96
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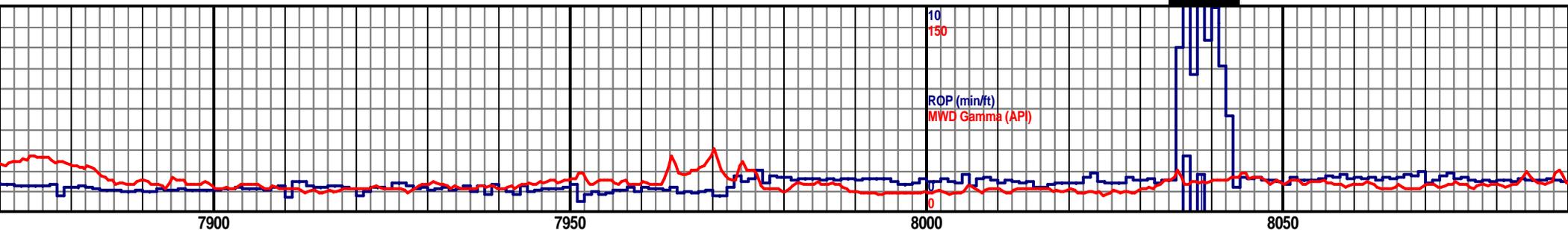
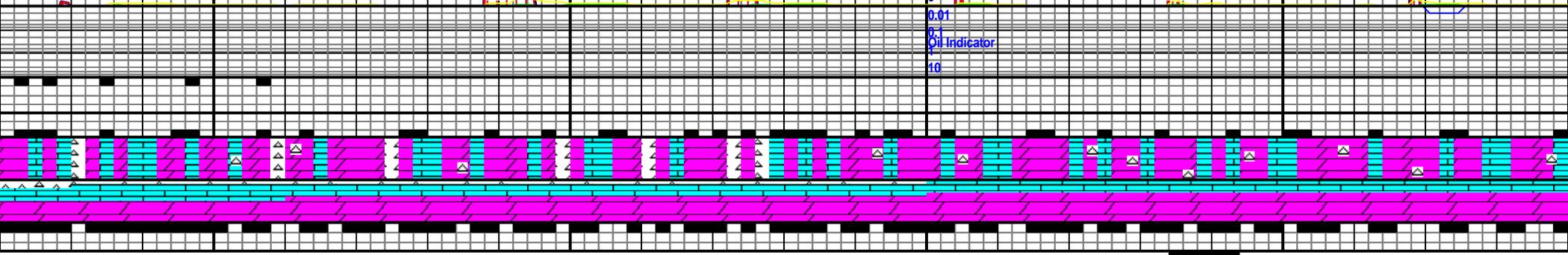
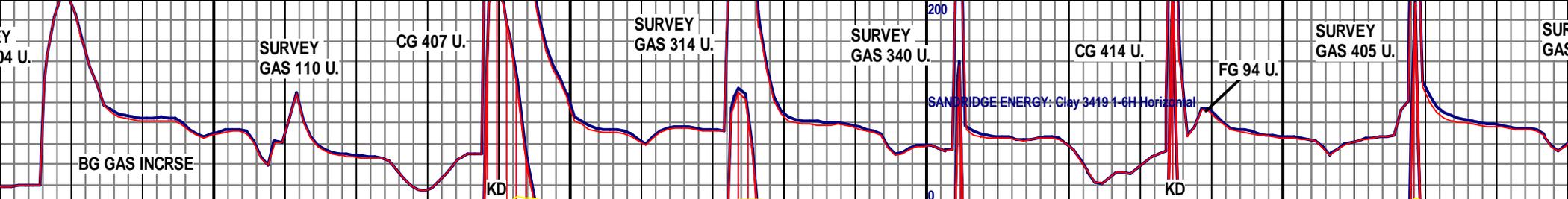
CHRT: DCRSNG, MSTLY CLR- V SLI OPQ, SME TRNSL, OCC OFF WHT- WHT, HRD-  
 V FRM, ANG, DCRSNG TO SLI TR V LT TAN STN, DOLO LS: INCRSE, MSTLY WHT,  
 OCC OFF WHT, TR LT GRY, MOD FRM- SLI FRM, SUBRND- TR RND, LS: OFF WHT,  
 OCC LT GRY, OCC WHT, MOD FRM- FRM, SME SLI FRM, TR BRIT, SUBANG-  
 SUBRND, MIC FN- V FN XLN, SCAT PR FLOR, PRED LT BLU- BLU W/ V SLI LT  
 GRN/YEL TNT, PR- V PR SLO LT BLU- V SLI MLKY CUT, V- V PR MED- THN BLU  
 RESD RING

DOLO LS: MSTLY OFF WHT- WHT, SME CRM, SME DRTY WHT- LT  
 FRM, OCC FRI, SUBRND, TR RND, MIC FN- OCC V FN XLN, LS: MST  
 WHT- LT GRY, FRM- MOD FRM, SME SLI FRM, TR BRIT/CRMBLY, SU  
 FN- V FN XLN, CHRT: SLI CLR, SME OPQ, OCC FRSTD, TR WHT- O  
 V HRD, ANG, SHRP, TR PR LT YEL FLOR, V PR V SLO DIM MLKY-  
 THN SPTY LT BLU- NO RESD RING

MUD CK @: 7,726  
 MW: 8.45  
 FV: 28  
 PV: 1  
 YP: 3  
 GEL: 1/2/0

SOL: 0.4  
 OIL/WAT: 0.0/99.1  
 PH: 9.0  
 MA: 0.50  
 FA: 0.15/0.45

SWEEP RECIPE (80 BBLs) CONTAINS  
 8 SX GRAHPITE AND 3 SX MICA.



NO LONGER  
BYPASSING  
SHAKER

WOB: 29.8  
RPM: 49  
PP: 1367  
SPM: 89

DOLO LS: OFF WHT- WHT, SME LT GRY, SME CRM, MOD FRM- SLI FRM, OCC FRM-  
SUBRND, TR RND- SUBANG, MIC FN- OCC V FN XLN, LS: MSTLY CRM, SME OFF  
OCC WHT, OCC OFF WHT- LT GRY, MOD FRM, SME SLI FRM/BRIT, TR CRMBLY, S  
OCC SUBANG, MIC FN XLN, OCC V FN XLN, CHRT: SLI TR, CLR, SME OPQ- SLI T  
OCC WHT, HRD- V HRD, SLI TR BRIT, ANG, TR SPLNTY, OCC- TR PR LT YEL- GLD  
NO VIS CUT, NO RESD RING

MD 5252.83  
INC 90.5 AZ 0.9  
VS 3020.95

MD 7890 TVD 5252.66  
INC 90.5 AZ 0.9  
VS 3020.95

MD 7922 TVD 5252.38  
INC 90.5 AZ 1  
VS 3052.95

MD 7954 TVD 5252.08  
INC 90.6 AZ 0.9  
VS 3084.95

MD 7985 TVD 5251.62  
INC 91.1 AZ 0.9  
VS 3115.94

MD 8017 TVD 5250.84  
INC 91.7 AZ 0.6  
VS 3147.93

MD 8049 TVD 5250.25  
INC 90.4 AZ 0.9  
VS 3179.92

MD 8080 TVD 5249.66  
INC 90.5 AZ 0.9  
VS 3210.92

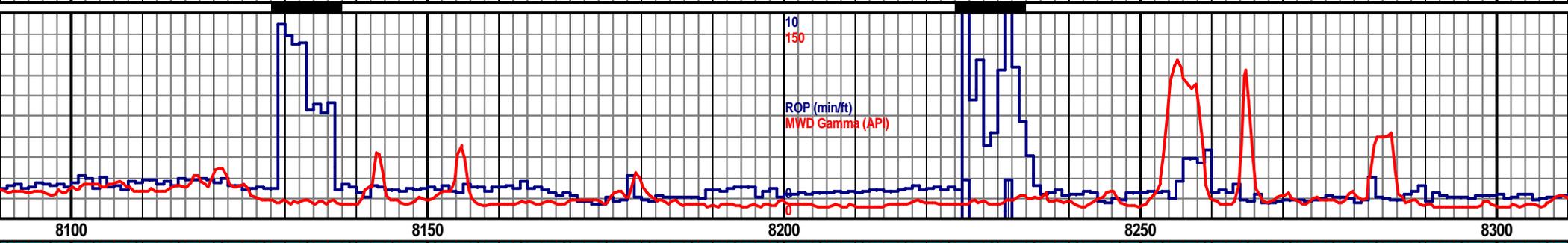
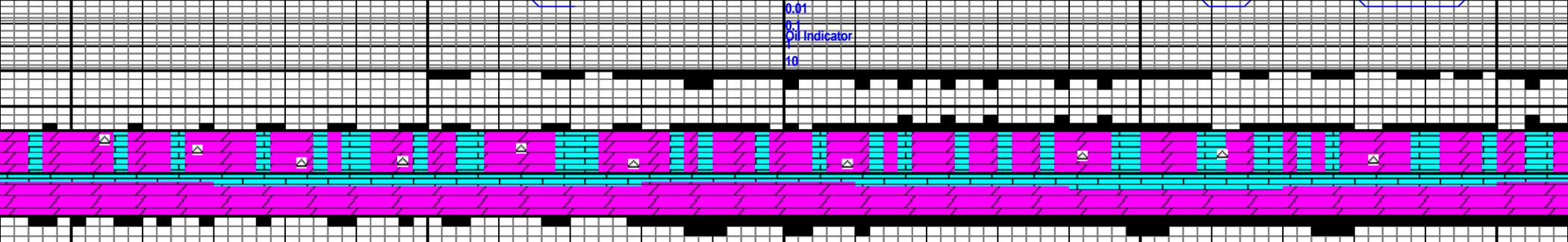
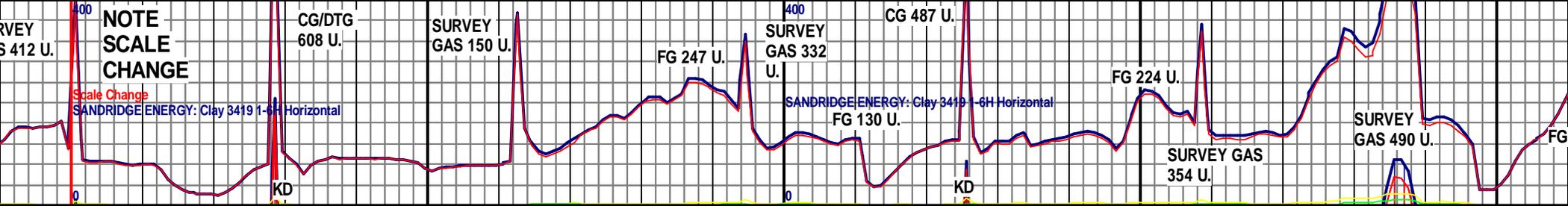
DOLO LS: PRED WHT, SME MOD  
FRM, OCC BRIT/FRI, SUBRND- RND, SLI TR SUBANG, MIC FN XLN, OCC V FN XLN, LS:  
CRM- OFF WHT, SME WHT, OCC OFF WHT- LT GRY, FRM- MOD FRM, SME SLI FRM, TR  
BRIT/CRMBLY, SUBRND, SUBANG, MIC FN XLN, OCC V FN XLN, CHRT: MSTLY CLR, SME  
OPQ- SLI TRNSL, OCC FRSTD, OCC WHT- OFF WHT, MSTLY HRD- V HRD, OCC V FRM,  
SLI TR BRIT, ANG, SHRP, OCC- SME PR LT YEL- GLD FLOR, NO VIS CUT, NO RESD RING

DOLO LS: PRED WHT, SME OFF WHT- CRM, SME DRTY WHT- LT GRY, MOD FRM- SLI  
FRM, OCC BRIT/FRI, SUBRND- RND, SLI TR SUBANG, MIC FN XLN, OCC V FN XLN, LS:  
CRM- OFF WHT, SME WHT, OCC OFF WHT- LT GRY, FRM- MOD FRM, SME SLI FRM, TR  
BRIT/CRMBLY, SUBRND, SUBANG, MIC FN XLN, OCC V FN XLN, CHRT: MSTLY CLR, SME  
OPQ- SLI TRNSL, OCC FRSTD, OCC WHT- OFF WHT, MSTLY HRD- V HRD, OCC V FRM,  
SLI TR BRIT, ANG, SHRP, OCC- SME PR LT YEL- GLD FLOR, NO VIS CUT, NO RESD RING

MUD CK @: 8,005'  
MW: 8.45  
FV: 27  
PV: 1  
YP: 2  
GEL: 1/2/0

SOL: 0.8  
OIL/WAT: 0.0/98.9  
PH: 9.5  
MA: 1.10  
FA: 0.30/0.65

SWEEP RECIPE (80 BBLs) CONTAINS  
8 SX GRAHPITE AND 3 SX MICA.

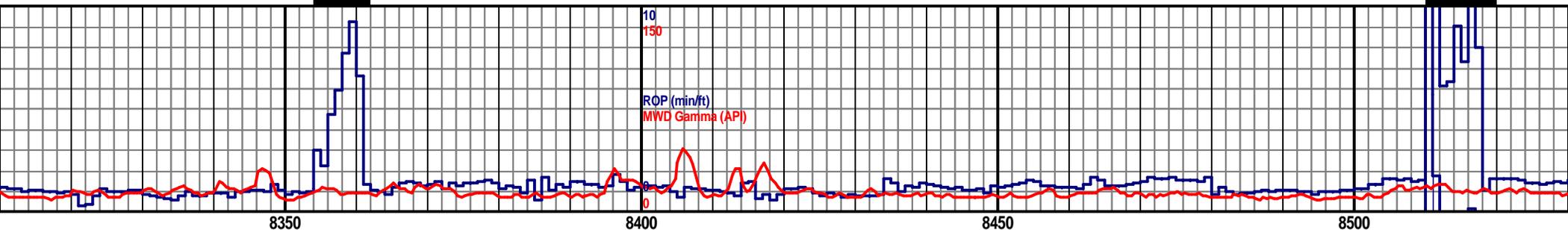
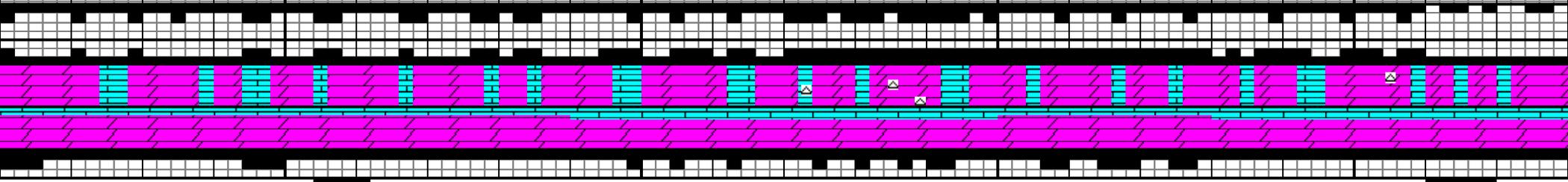
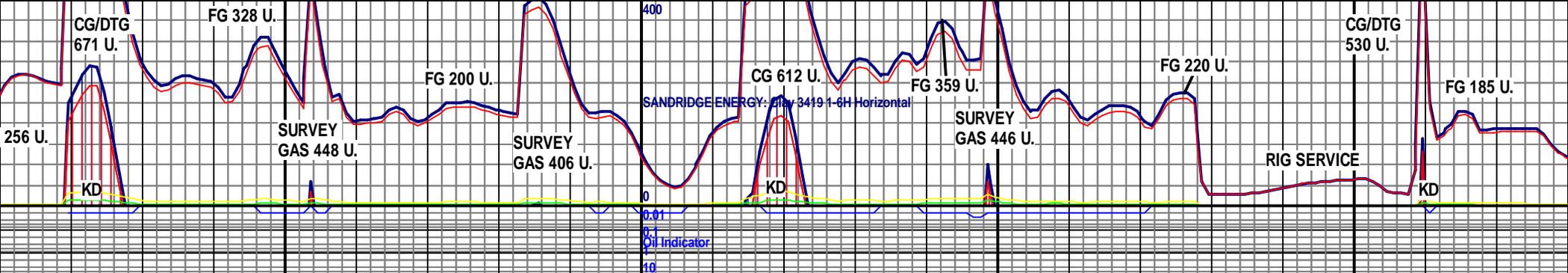


DOLO LS: PRED WHT-OFF WHT, SME GY-LT GY, OCC CRM, MOD FRM, SME SLI FRM, PRED SUBRND, OCC SUBANG, MIC FN- OCC V FN XLN, LS: PRED WHT-CRM, OCC OFF WHT, SME WHT, MOD FRM, SUBANG-SUBRND, CHT: TR, PRED CLR-TRNSLU, OCC WHT, PRED HRD, OCC V-HRD, ANG, OCC TR PR LY YEL FLOR, PR MLKY- LT BLU CUT, SLO FT LT BLU RES RING

WOB:26.3  
RPM:52  
PP: 1612  
SPM: 70

DOLO LS: PRED WHT, SME OFF WHT, OCC CRM, SME GY, OCC LT GY, MOD FRM, SME SLI FRM, PRED SUBRND, OCC SUBANG, LS: PRED OFF WHT, OCC CRM, MOD FRM, SME SLI FRM, PRED SUBANG, OCC SUBRND, CHT: TR, TRANSL-OPQ, OCC WHT, HRD, ANG, SME PR YEL FLOR, PR-FR MLKY-LT BLU CUT, LT GRN/BLU RES RING

MD 8112 TVD 5249.7 INC 90.6 AZ 1.1 VS 3242.91	MD 8144 TVD 5249.92 INC 88.6 AZ 1.3 VS 3274.9	MD 8175 TVD 5250.79 INC 88.2 AZ 1.1 VS 3305.88	MD 8207 TVD 5251.49 INC 89.3 AZ 0.6 VS 3337.87	MD 8239 TVD 5251.63 INC 90.2 AZ 1.2 VS 3369.87	MD 8270 TVD 5251.33 INC 90.9 AZ 0.9 VS 3400.86	MD 8302 INC 91.4 VS 3432.8
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2013

DOLO LS: PRED WHT-OFF WHT, OCC CRM, SME GY, MOD FRM, SME FLI FRM, PRED SUBRND, OCC SUBANG, LS: MSTLY WHT-OFF WHT, OCC LT GY, SME CRM, PRED SUBANG, OCC SUBRND, SME SCAT YEL FLOR, FR MLKY LT BLU/GRN CUT, PR-FR LT BLU RES RING

WOB: 26.1  
RPM: 69  
PP: 1645  
SPM: 92

DOLO LS: MSTLY WHT-OFF WHT, SME CRM, OCC DRTY WHT- LT GRY, MOD FRM- SLI FRM, OCC FRI, SUBRND, OCC RND, MIC FN- OCC V FN XLN, LS: CRM, SME OFF WHT- V LT GRY, OCC WHT, MOD FRM, SME SLI FRM, TR FRM, TR CRMBLY, SUBRND- SUBANG, TR RND, MIC FN XLN, OCC V FN XLN, CHRT: SLI TR, CLR- OPQ, SME TRNSL, OCC FRSTD, OCC WHT, HRD- V HRD, SLI TR BRIT, ANG, SCAT FR BRI YEL/GLD/LT YEL FLOR THRU OUT, SME FR BLU- LT BLU FLOR, FR BLU- LT BLU FLSH CUT, FR- SLI FR MED LT BLU- BLU RESD RING

DOLO LS: WHT, SME CRM, TR FRM, OCC BRN DRTY WHT, SME OFF WHT, SUBANG, OCC SUBRND, TRNSL, OCC FRSTD- C GLD- YEL FLOR, SME FR THN LT BLU RESD

TVD 5250.69  
AZ 1.2  
VS 3464.84

MD 8334 TVD 5249.9  
INC 91.4 AZ 1.2  
VS 3495.83

MD 8365 TVD 5249.44  
INC 90.3 AZ 1.2  
VS 3527.82

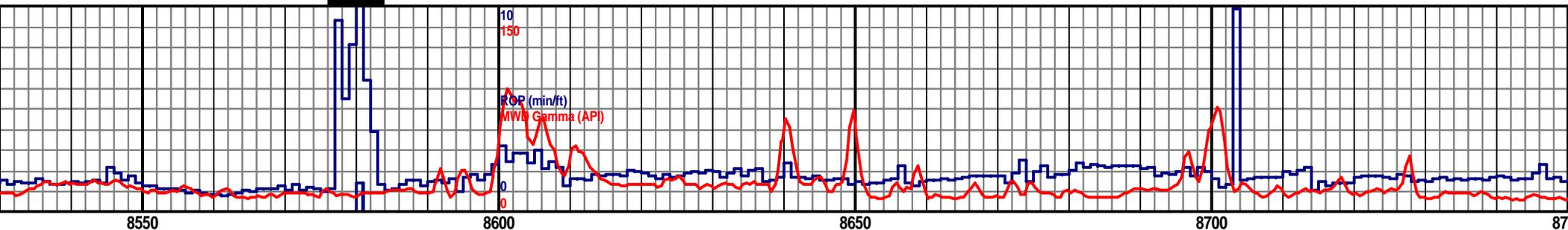
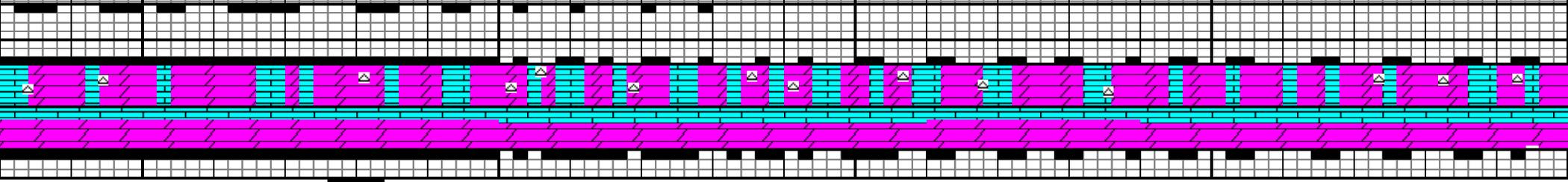
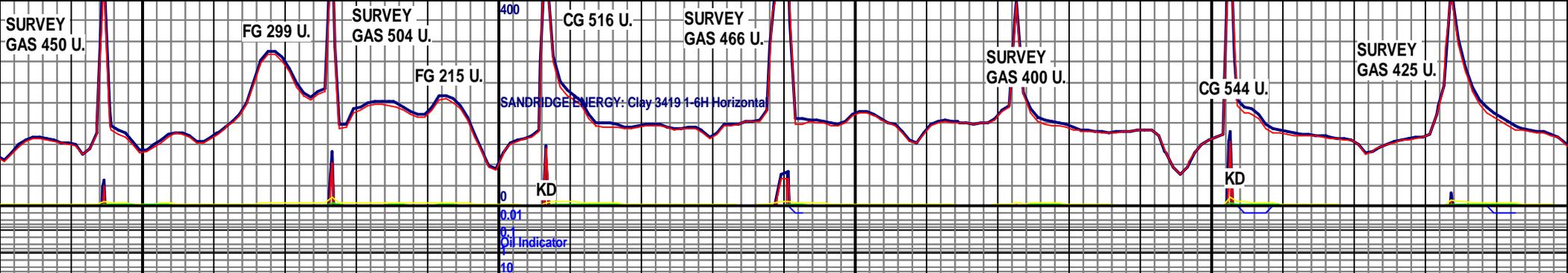
MD 8397 TVD 5249.3  
INC 90.2 AZ 0.9  
VS 3559.82

MD 8429 TVD 5249.05  
INC 90.7 AZ 0.6  
VS 3590.82

MD 8460 TVD 5248.51  
INC 91.3 AZ 0.4  
VS 3622.8

MD 8492 TVD 5247.54  
INC 92.2 AZ 0.2  
VS 3655.8

MD 8510 TVD 5247.0  
INC 92.8 AZ 0.1  
VS 3688.8



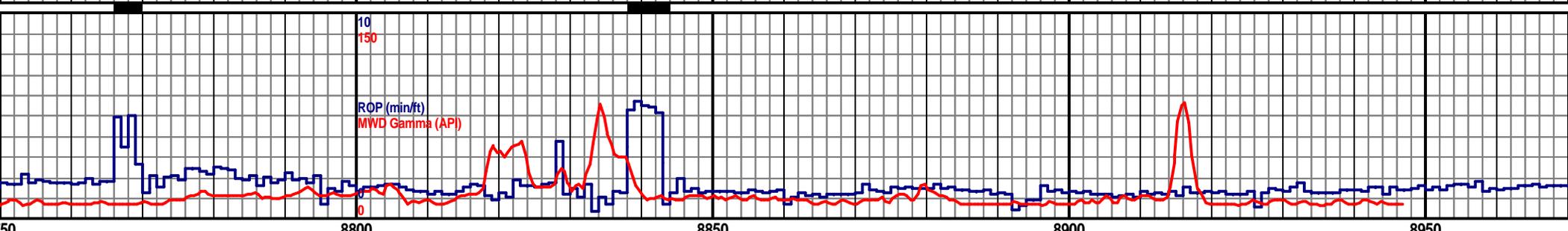
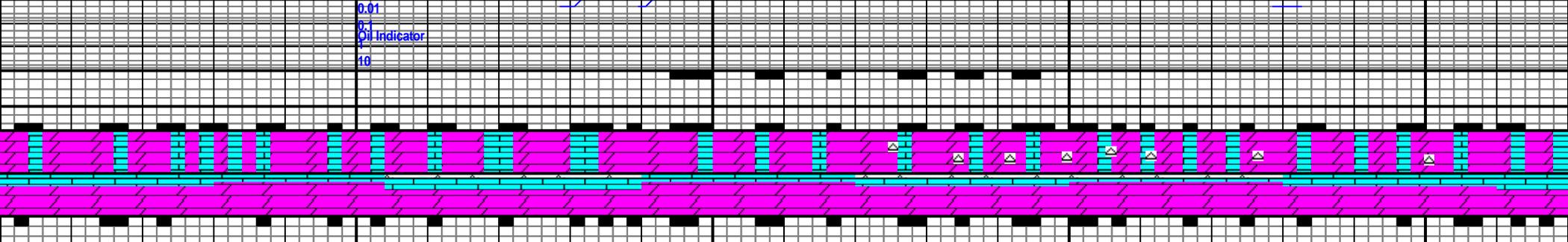
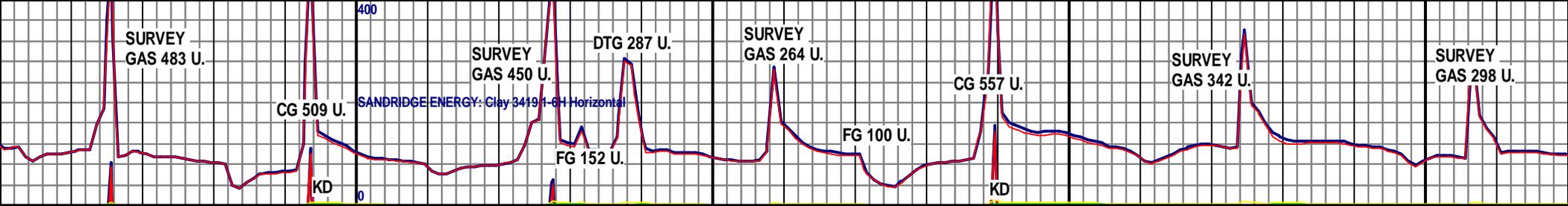
CRM- OFF WHT, OCC DRTY WHT- LT GRY, MOD FRM, SME SLI  
 TRIT, SUBRND, OCC SUBANG- RND, MIC FN- V FN XLN, LS: CRM-  
 WHT- LT GRY, SME WHT, MOD FRM- FRM, SME SLI FRM,  
 ND, MIC FN XLN, OCC V FN XLN, CHRT: SLI TR, CLR- OPQ, SME  
 OFF WHT, OCC WHT, HRD- V HRD, ANG, DCRSNG PR- V SLI FR  
 BLU- LT BLU FLOR, DCRSNG TO PR LT BLU- V SLI MLKY CUT,  
 RING

5240 TVD  
 WOB: 32.3  
 RPM: 68  
 PP: 1638  
 SPM: 71

DOLO LS: MSTLY LT GRY- OFF WHT, SME CRM- WHT, MOD FRM- SLI FRM, TR  
 FRM, TR BRIT, SUBRND, SME SUBANG, OCC RND, MIC FN- V FN XLN, LS: LT  
 GRY, SME CRM- OFF WHT, OCC WHT, FRM- MOD FRM, SME SLI FRM, OCC FRI  
 MIC FN- OCC V FN XLN, CHRT: MSTLY CLR, SME OPQ- SLI TRNSL, OCC WHT-  
 OFF WHT- OPQ, HRD, OCC V FRM, ANG, OCC SUBANG, DCRSNG FLOR TO V  
 PR, LT YEL- YEL, OCC BLU- LT BLU,

DOLO LS: PRED OFF WHT, SME LT GY, OCC  
 SUBRND, TR SUBANG, MIC FN- V FN XLN, LS  
 FRM, OCC SLI FRM, CHT: TR, PRED CLR, OCC  
 SUBANG, TR SCAT PR YEL FLOR, NO CUT, N

MD 8555 TVD 5245.8 INC 91.1 AZ 0.9 VS 3685.77	MD 8587 TVD 5245.46 INC 90.1 AZ 1 VS 3717.76	MD 8619 TVD 5245.52 INC 89.7 AZ 1.1 VS 3749.76	MD 8650 TVD 5245.63 INC 89.9 AZ 0.8 VS 3780.76	MD 8682 TVD 5245.57 INC 90.3 AZ 1 VS 3812.75	MD 8714 TVD 5245.24 INC 90.9 AZ 0.5 VS 3844.75	MD 8746 TVD 5245.10 INC 91.5 AZ 1.2 VS 3876.75
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50 8800 8850 8900 8950

CRM, MOD FRM-SLI FRM, PRED  
 : LT GY-OFF WHT, SME WHT, MOD  
 C OPQ, HRD, PRED ANG, SME  
 O RES RING

3/28/2013

DOLO LS: PRED WHT-OFF WHT, OCC LT GY, SME CRM, MOD FRM, OCC SLI FRM,  
 MSTLY SUBRND, OCC SUBANG, MIC FN-V FN XLN, LS: WHT-LT GY, SME OFF  
 WHT, MOD FRM, SME SLI FRM, CHT: TR, PRED CLR, OCC OPQ, SME TRANSL,  
 PRED HRD, OCC V HRD, MSTLY ANG, TR SUBANG, SCAT DUL YEL FLOR, PR  
 MLKY-LT BLU CUT, PR LT BLU RES RING

DOLO LS: MSTLY WHT, SME OFF WHT, SME CRM, OCC LT GY,  
 SLI FRM, PRED SUBRND, SME SUBANG, MIC FN- V FN XLN, LS  
 LT GY, MOD FRM-SLI FRM, CHT: DCRSING, PRED CLR, SME OF  
 SME V HRD, ANG, TR SCAT DUL YEL FLOR, NO CUT, NO RES F

MD 8745 TVD 5244.75  
 INC 90.9 AZ 0.6  
 VS 3975.75

MD 8777 TVD 5244.28  
 INC 90.8 AZ 0  
 VS 3907.74

MD 8809 TVD 5243.86  
 INC 90.7 AZ 359.6  
 VS 3939.74

MD 8840 TVD 5243.61  
 INC 90.2 AZ 359.3  
 VS 3970.73

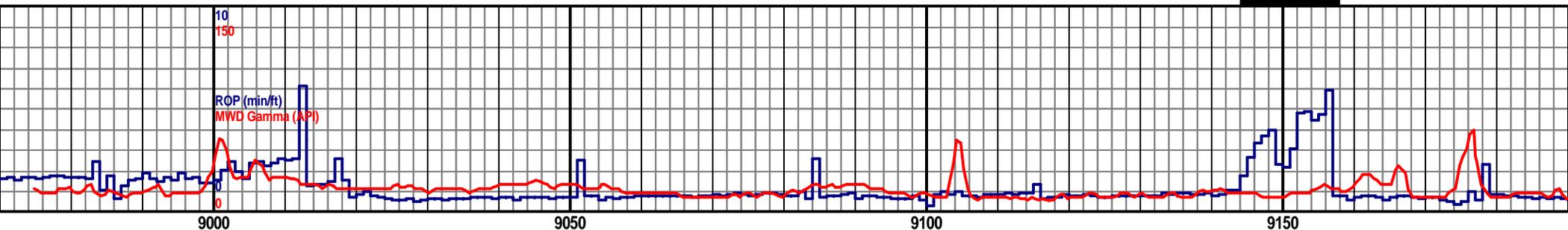
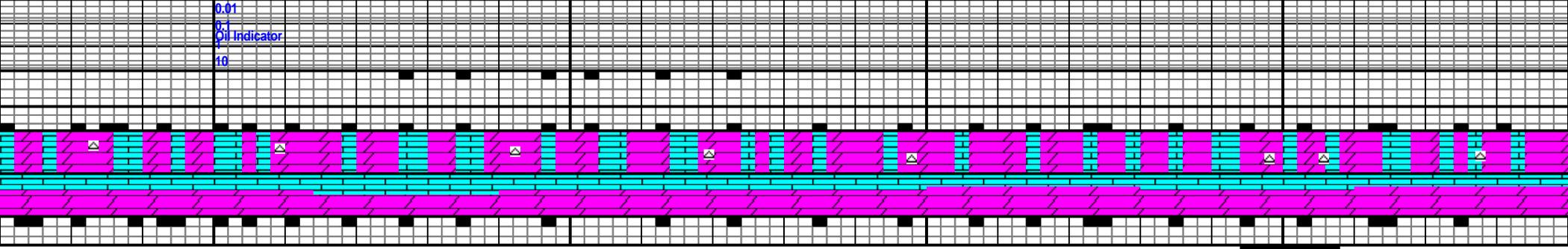
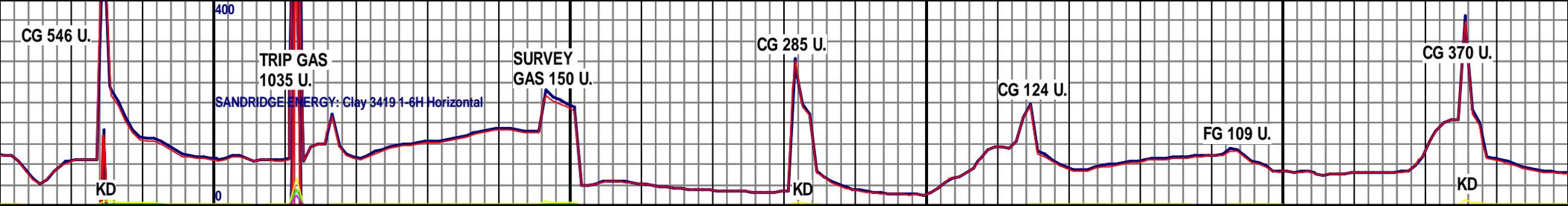
MD 8872 TVD 5243.7  
 INC 89.5 AZ 358.1  
 VS 4002.72

MD 8904 TVD 5243.89  
 INC 89.8 AZ 358.3  
 VS 4034.71

MD 8935 TVD 5243.87  
 INC 90.3 AZ 357.7  
 VS 4065.68

MUD CK @: 9,012  
 MW: 8.70  
 FV: 29  
 PV: 2  
 YP: 3  
 GEL: 1/2/0

SOL: 2.7  
 OIL/WAT: 0  
 PH: 9.9  
 MA: 1.10  
 FA: 0.40/0.



5240 TVD

DOLO LS: PRED WHT-OFF WHT, SME CRM, OCC LT GY, MSTLY MOD FRM, OCC SLI FRM, SUBRND, MIC FN- V FN XLN, LS: PRED OFF WHT, OCC LT GY, SME WHT, MOD FRM-SLI FRM, PR TR SCAT YEL FLOR, PR SLO MLKY-LT BLY CUT, FT LT BLU RES RING

DOLO LS: WHT-OFF WHT, OCC CRM, SME LT GY, MOD FRM, SME SLI FRM, PRED SUBRND, OCC SUBANG, MIC FN- V FN XLN LS: PRED WHT, SME OFF WHT, OCC LT GY, MOD FRM-SLI FRM, TR YEL FLOR, NO VIS CUT, NO RES RING

MD 8967 TVD 5243.75 INC 90.1 AZ 357.6 VS 4097.65	MD 8999 TVD 5243.7 INC 90.1 AZ 357.1 VS 4129.62	MD 9030 TVD 5243.59 INC 90.3 AZ 356.9 VS 4160.57	MD 9062 TVD 5243.37 INC 90.5 AZ 356.8 VS 4192.52	MD 9094 TVD 5242.98 INC 90.9 AZ 356.3 VS 4224.45	MD 9126 TVD 5242.56 INC 90.6 AZ 356 VS 4256.37	MD 9157 TVD 5242.48 INC 89.7 AZ 357.2 VS 4287.31
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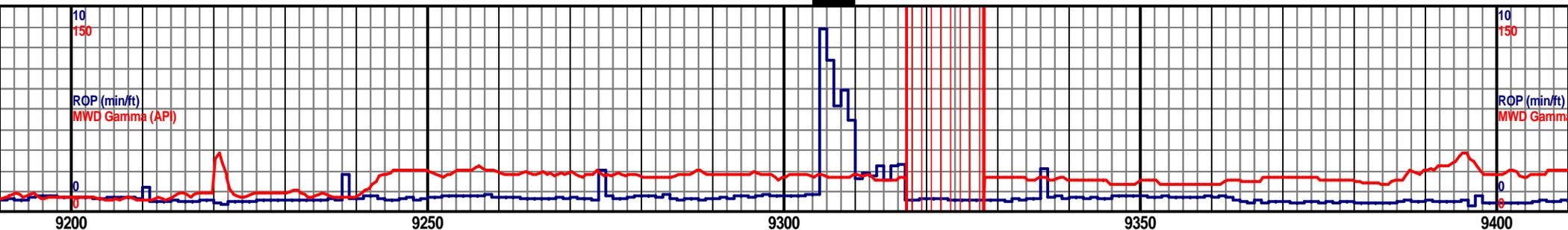
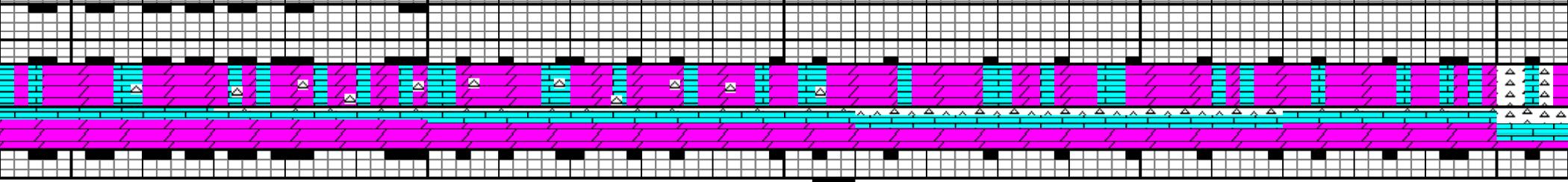
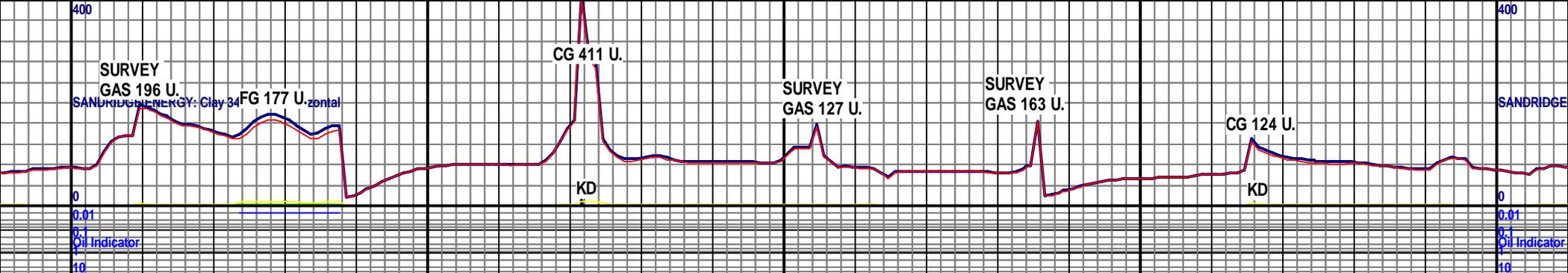
**TOH @ 9,012' MD FOR NEW BIT**

DRILLING W/ BIT #8, 6.125", HALLIBURTON, FX54D, SS# 11907295, JETS 5X5, IN @ 9,012'

MOTOR BEND: 1.50 REVS PER GALLON: 0.26

0/97.0

SWEEP RECIPE (80 BBLs) CONTAINS 8 SX GRAHPITE. SWEEPING AS



3/29/2013

WOB: 20.8  
RPM: 59  
PP: 1760  
SPM: 69

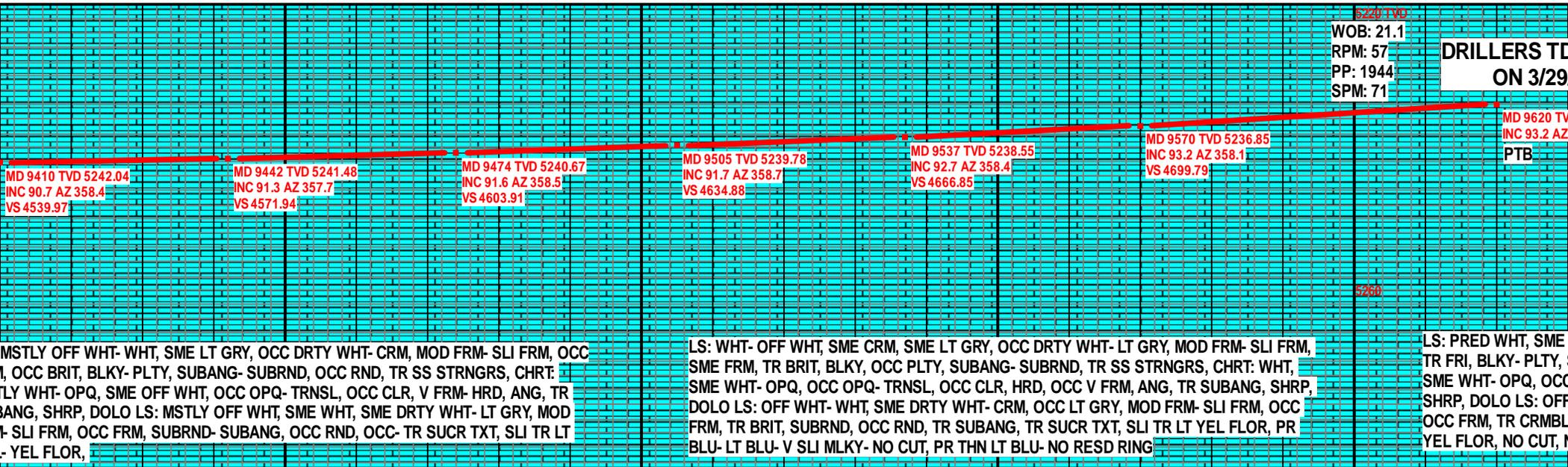
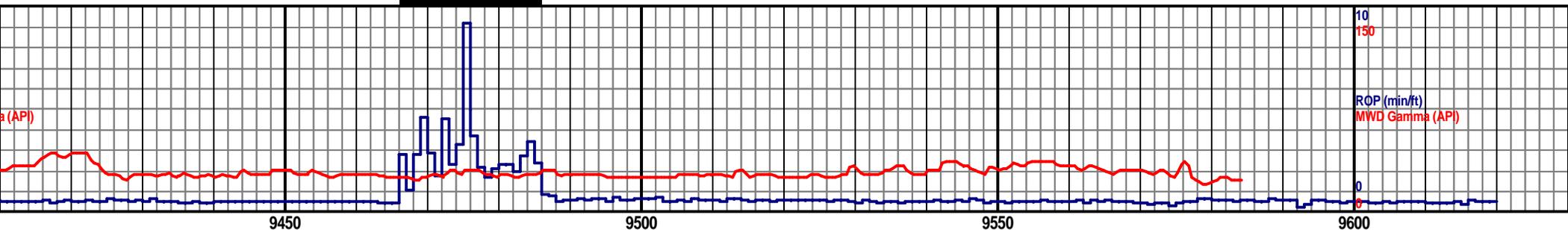
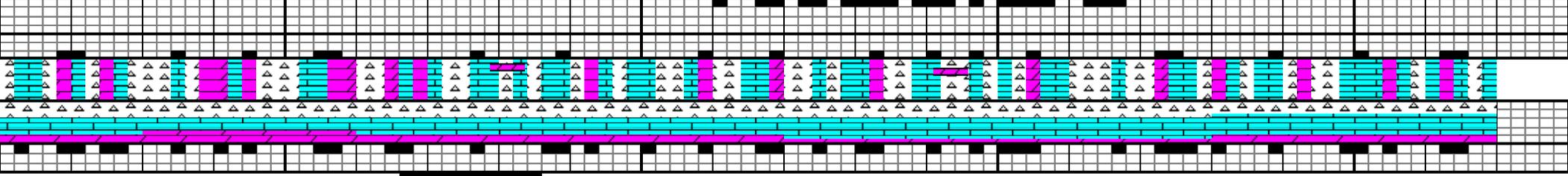
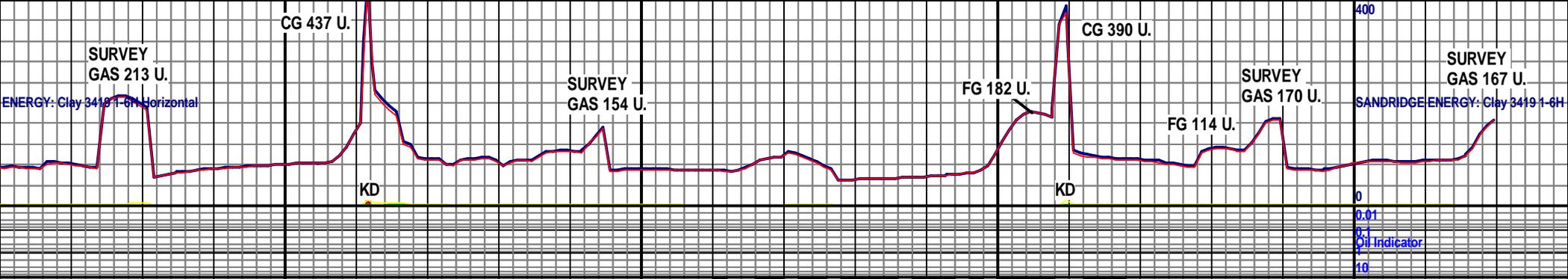
DOLO LS: WHT-OFF WHT, SME CRM, OCC LT GY, PRED MOD FRM, OCC SLI FRM, MSTLY SUBRND, TR SUBANG, MIC FN-V FN XLN, LS: PRED OFF WHT, OCC WHT, OCC CRM, OCC LT GY, MOD FRM, SME SLI FRM, CHT: PRED CLR, OCC OPQ, OCC TRNSLU, PRD HRD, TR V HRD, ANG, SCAT YEL FLOR, PR MLKY LT BLU CUT, PR MLKY-LT BLU RES RING

DOLO LS: PRED WHT, SME OFF WHT, OCC CRM, SME LT GY, MOD FRM-SLI FRM, PRED SUBRND, SME SUBANG, MIC FN-V FN XLN, LS: MSLTY OFF WHT, SME WHT, OCC CRM, OCC LT GY, MOD FRM, OCC SLI FRM, CHT: CLR, SME OPQ, SME TRANSLU, HRD, ANG, TR SCAT YEL FLOR, NO CUT, NO RES RING

WOB: -3.7  
RPM: 61  
PP: 1610  
SPM: 70

MD 9189 TVD 5242.73 INC 89.4 AZ 357 VS 4319.27	MD 9220 TVD 5242.92 INC 89.9 AZ 357.1 VS 4350.22	MD 9252 TVD 5242.8 INC 90.5 AZ 356.5 VS 4382.17	MD 9284 TVD 5242.44 INC 90.8 AZ 356.7 VS 4414.1	MD 9315 TVD 5242.2 INC 90.1 AZ 357.2 VS 4445.05	MD 9347 TVD 5242.23 INC 89.8 AZ 357.5 VS 4477.02	MD 9379 TVD 5242.25 INC 90.1 AZ 357.8 VS 4508.99
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LS:  
FRM  
MST  
SUE  
FRM  
YEL



Horizontal

GAS

ROP  
GAMMA

9650

97

10 @ 9,620' MD  
/2013

D 5234  
358.1

SANDRIDGE ENERGY, INC.  
CLAY 1-6H  
SEC. 6-T34S-R19W OF  
COMMANCHE CO., KS

GE: 2,747' KB: 2,767'

LT GRY, OCC CRM- OFF WHT, MOD FRM- SLI FRM, SME FRM,  
SUBANG- SUBRND, TR ANG, TR SS STRNGRS, CHRT: WHT,  
C OPQ- CLR, HRD, OCC V FRM, TR V HRD, ANG, TR SUBANG,  
F WHT- LT GRY, SME WHT, OCC LT GRY, SLI FRM- MOD FRM,  
Y/BRIT, SUBRND, OCC RND, TR SUCR TXT, SLI TR PR LT YEL-  
NO RESD RING