



P.O. Box 51297
513 Hilltop Rd. Suite #5
Billings, MT 59105
(406)259-4124
(406)252-4252 fax
geology@sunburstconsulting.com
www.sunburstconsulting.com

GEOSTEERING LOG

WellSight Systems

Scale 1:240 (5"=100') Imperial
Measured Depth Log

Well Name: Cather #513056
Location: Rosemont 7.5" Quadrangle, Flemington District, Taylor County, West Virginia
License Number: 47-091-01216
Spud Date: 16 May 2011
Surface Coordinates: Latitude: 39.29182
Longitude: 80.15289
Bottom Hole Coordinates: 1,904.61' South & 1,901.60' East of Surface Location
Ground Elevation (ft): 1183
Logged Interval (ft): 6,720' To: 10,376' Total Depth (ft): 10,376'
Formation: Middlesex through Marcellus
Type of Drilling Fluid: water based mud
Region: Appalachian Basin
Drilling Completed: 29 May 2011
K.B. Elevation (ft): 1205
Printed by WellSight Log Viewer from WellSight Systems 1-800-447-1534 www.WellSight.co




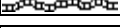
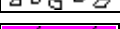

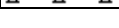
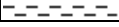








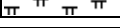

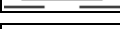
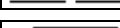
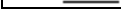



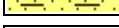

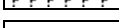
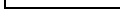
OPERATOR

Company: EQT Production Company
Address: 625 Liberty Avenue
Pittsburgh, PA 15222








































































GEOLOGISTS

Name: Robert McCue, Isaaah Land, Phillip Broache, Chris Adair
Company: Sunburst Consulting, Inc.
Address: P.O. Box 51297, 513 Hilltop Rd. Suite #5, Billings, MT 59105; (406) 259-4124;
 geology@sunburstconsulting.com;
 www.sunburstconsulting.com

ROCK TYPES

 Anhy  Arg dol  Arg ls  Bent  Brec  Calc dol  Cht	 Clyst  Coal  Congl  Dol  Dol ls  Gyp  Igne	 Ls  Meta  Mrlst  Salt  Shale  Shblk  Shcol	 Shgy  Sltst  Ss  Sssilty  Tuff  Unknown  Blank
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ACCESSORIES

FOSSIL  Algae  Amph  Belm  Bioclst  Brach  Bryozoa  Cephal  Coral  Crin  Echin  Fish  Foram  Fossil  Gastro  Oolite  Ostra  Pelec  Pellet  Pisolite	 Plant  Strom MINERAL  Anhy  Arggrn  Arg  Bent  Bit  Brecfrag  Calc  Carb  Chtdk  Chtlt  Dol  Feldspar  Ferrpel  Ferr  Glau  Gyp	 Hvymn  Kaol  Marl  Minxl  Nodule  Phos  Pyr  Salt  Sandy  Silt  Sil  Sulphur  Tuff STRINGER  Anhy  Arg  Bent  Coal  Dol	 Gyp  Ls  Mrst  Sltstrg  Ssstrg TEXTURE  Boundst  Chalky  Cryxln  Earthy  Finexln  Grainst  Lithogr  Microxln  Mudst  Packst  Wackest
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OTHER SYMBOLS

INTERVALS

- None
- Core
- Dst

EVENTS

- Rft
- Sidewall
- Bit change

OIL SHOWS

- Even
- Spotted
- Ques
- Dead

POROSITY TYPE

- Earthy
- Fenest

- Fracture
- Inter
- Moldic
- Organic
- Pinpoint
- Vuggy

ROUNDING

- Rounded

- Subrnd
- Subang
- Angular

SORTING

- Well
- Moderate
- Poor

COMMENTS

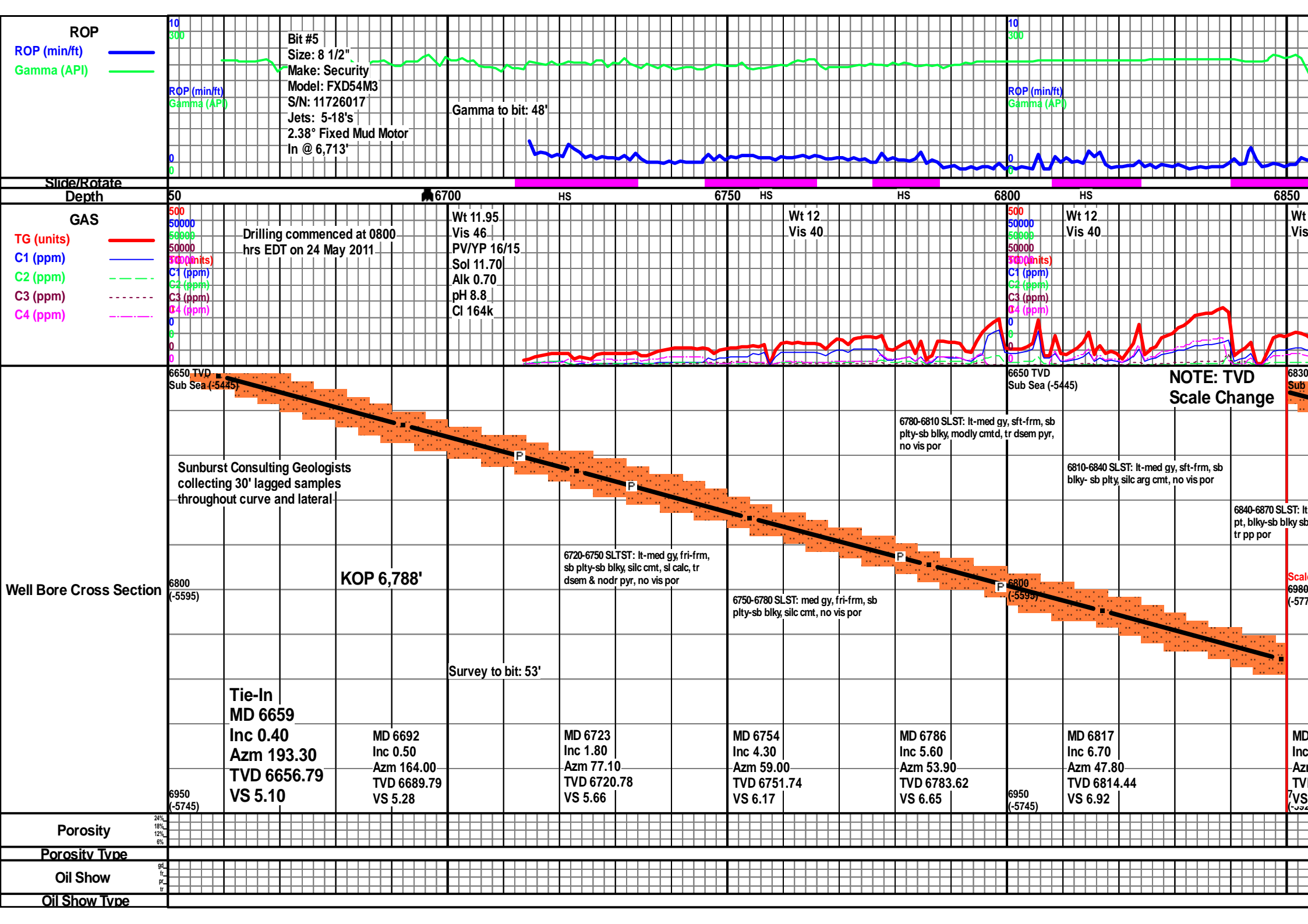
COMPANY MAN: Ken Baun, Scott Boudreaux
TOOLPUSHER: Michael Case, Kermit Aultman Jr.
RIG: Patterson-UTI 622

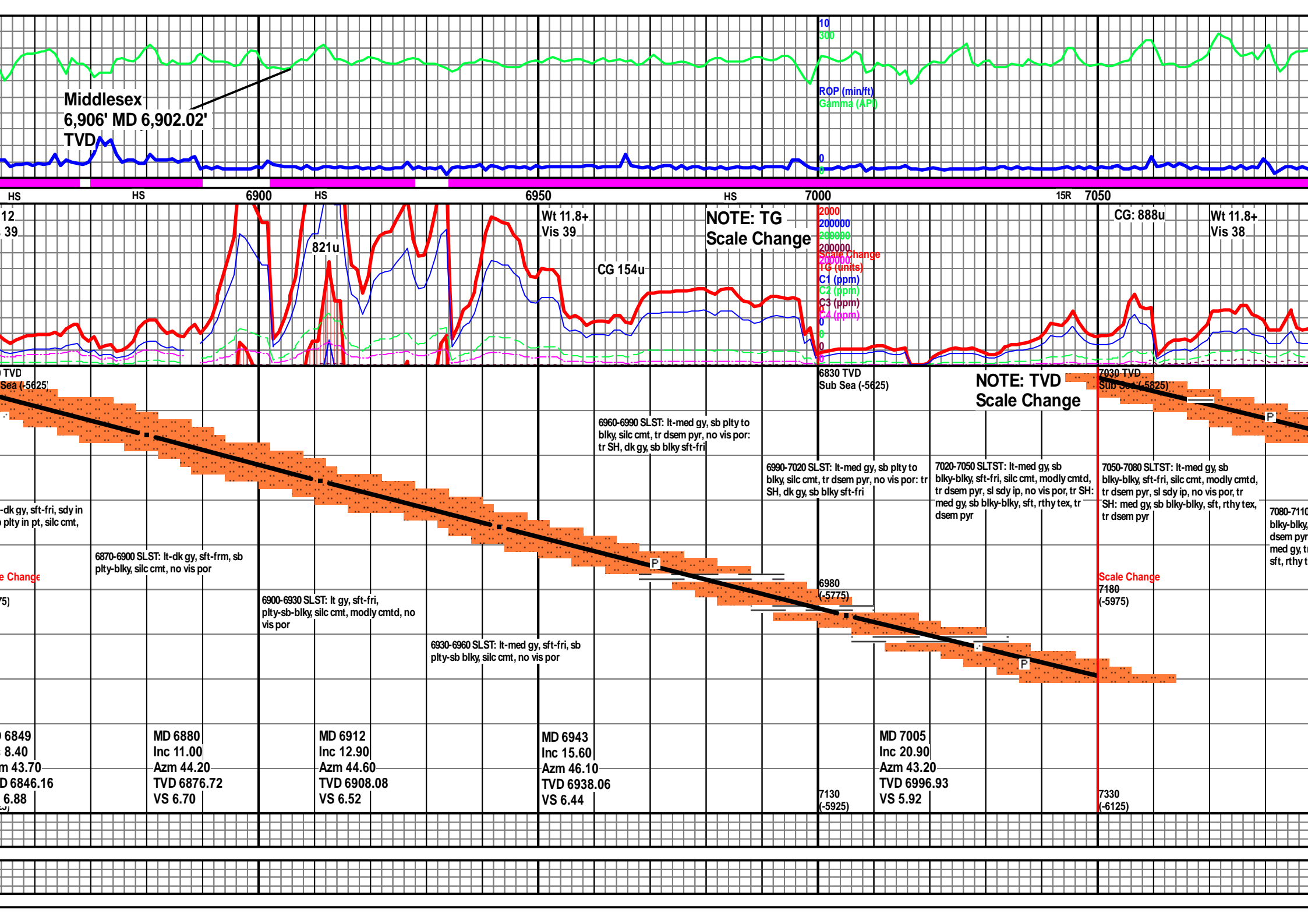
WV FILE #: 7377P513056R (329-47)

SURFACE CASING: 13 3/8" MC-50, 54.5#, 24 Joints, set to 1,057'
INTERMEDIATE CASING: 9 5/8" J-55, 40#, 65 Joints, set to 2,847'

KOP: 6,788'

CLOSURE DIRECTION: xxxx °
CLOSURE DISTANCE: xxxxx'

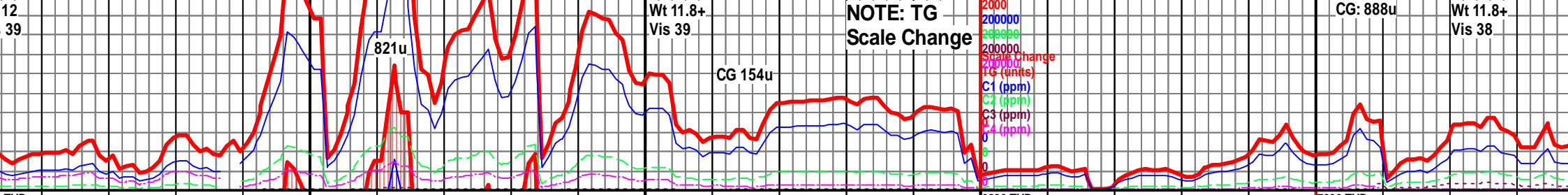




Middlesex
6,906' MD 6,902.02'
TVD

ROP (min/ft)
Gamma (AP)

HS HS 6900 HS 6950 HS 7000 15R 7050

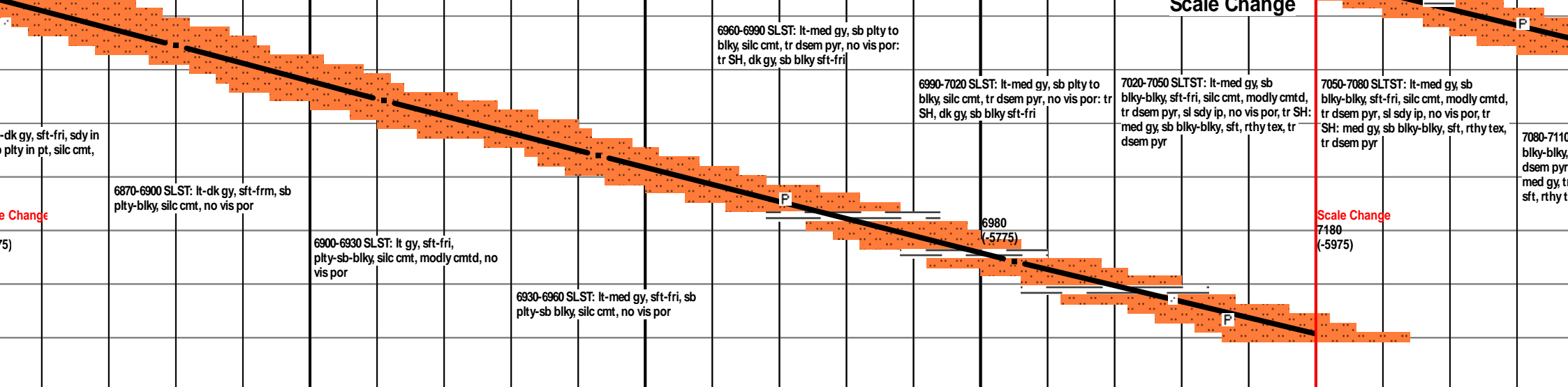


TVD
Sea (-5825)

6830 TVD
Sub Sea (-5825)

NOTE: TVD
Scale Change

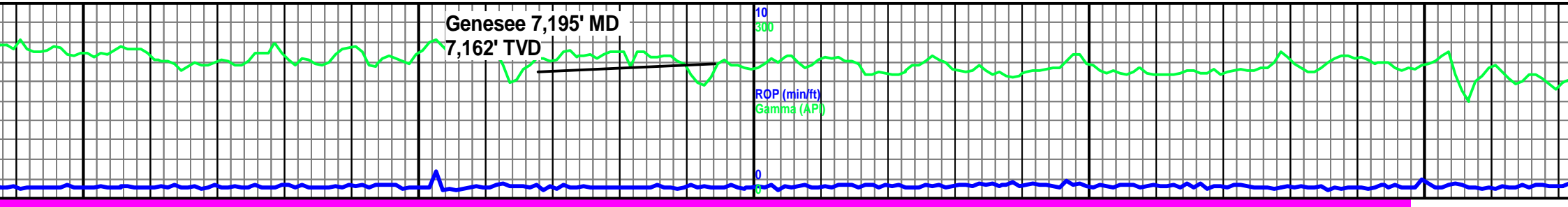
7030 TVD
Sub Sea (-5825)



6849 8.40 m 43.70 D 6846.16 6.88	MD 6880 Inc 11.00 Azm 44.20 TVD 6876.72 VS 6.70	MD 6912 Inc 12.90 Azm 44.60 TVD 6908.08 VS 6.52	MD 6943 Inc 15.60 Azm 46.10 TVD 6938.06 VS 6.44	MD 7005 Inc 20.90 Azm 43.20 TVD 6996.93 VS 5.92	7130 (-5925)	7330 (-6125)
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Genesee 7,195' MD

7,162' TVD



7100 HS 7150 30R 7200 15R 7250 HS 7300

Wt 11.8+
Vis 38

Wt 12.0
Vis 40

1099u

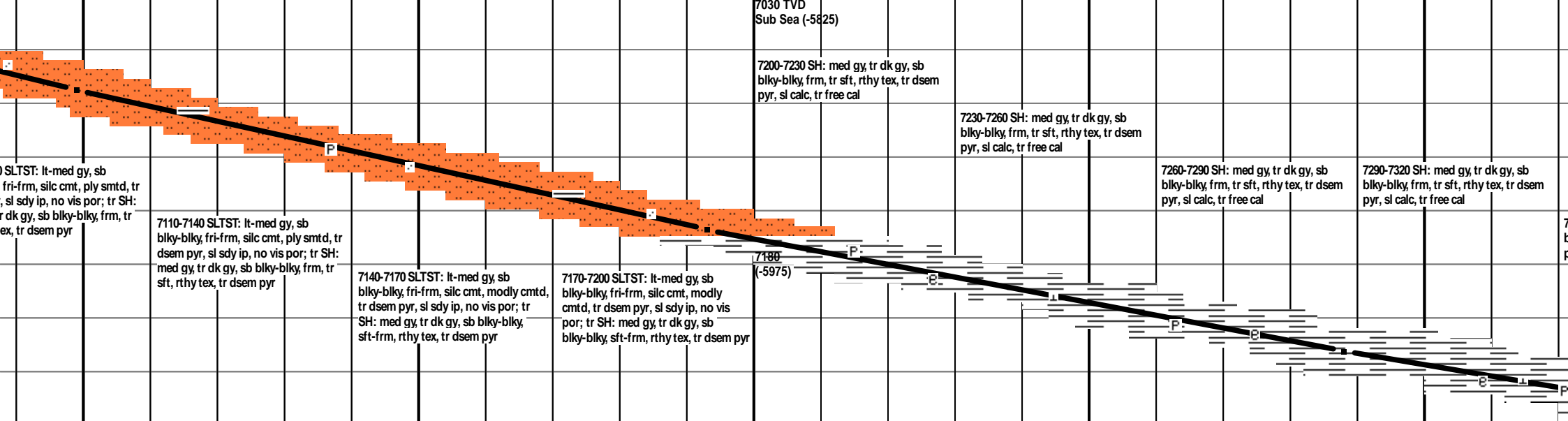
CG: 950u

1221 u

CG: 893u

1122u

2000
200000
200000
200000
ROP (min/ft)
C1 (ppm)
C2 (ppm)
C3 (ppm)
C4 (ppm)



7030 TVD
Sub Sea (-5825)

7200-7230 SH: med gy, tr dk gy, sb
blky-blky, frm, tr sft, rthy tex, tr dsem
pyr, sl calc, tr free cal

7230-7260 SH: med gy, tr dk gy, sb
blky-blky, frm, tr sft, rthy tex, tr dsem
pyr, sl calc, tr free cal

7260-7290 SH: med gy, tr dk gy, sb
blky-blky, frm, tr sft, rthy tex, tr dsem
pyr, sl calc, tr free cal

7290-7320 SH: med gy, tr dk gy, sb
blky-blky, frm, tr sft, rthy tex, tr dsem
pyr, sl calc, tr free cal

7110-7140 SLTST: lt-med gy, sb
blky-blky, fri-frm, silc cmt, ply smtd, tr
dsem pyr, sl sdy ip, no vis por; tr SH:
med gy, tr dk gy, sb blky-blky, frm, tr
sft, rthy tex, tr dsem pyr

7140-7170 SLTST: lt-med gy, sb
blky-blky, fri-frm, silc cmt, modly cmt,
tr dsem pyr, sl sdy ip, no vis por; tr
SH: med gy, tr dk gy, sb blky-blky,
sft-frm, rthy tex, tr dsem pyr

7170-7200 SLTST: lt-med gy, sb
blky-blky, fri-frm, silc cmt, modly
cmt, tr dsem pyr, sl sdy ip, no vis
por; tr SH: med gy, tr dk gy, sb
blky-blky, sft-frm, rthy tex, tr dsem pyr

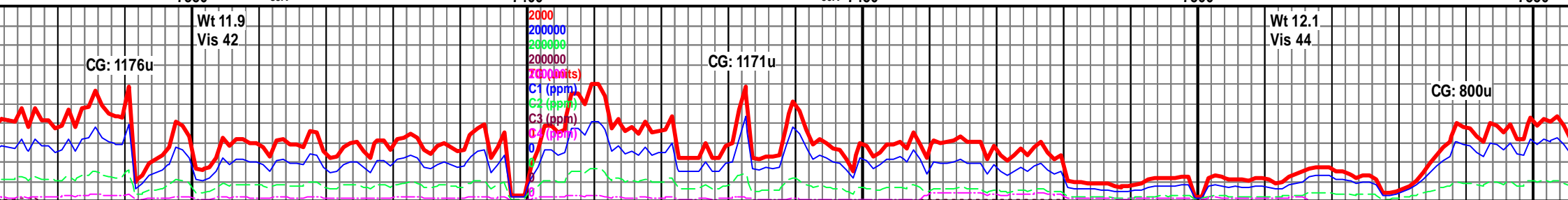
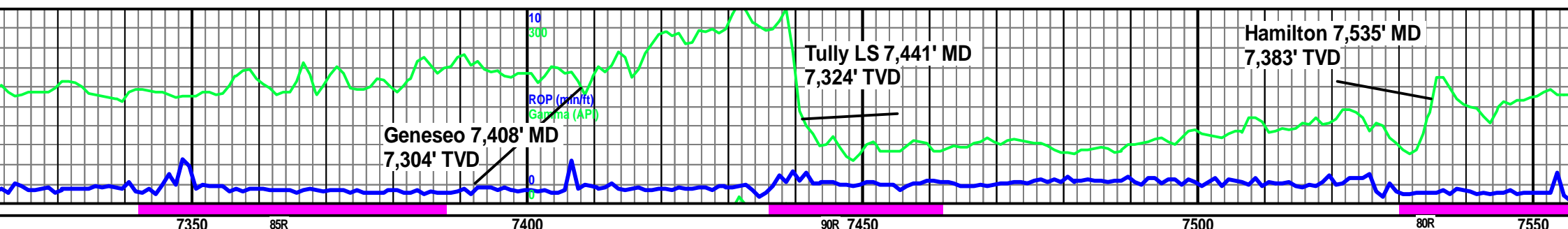
7180
(-5975)

7330
(-6125)

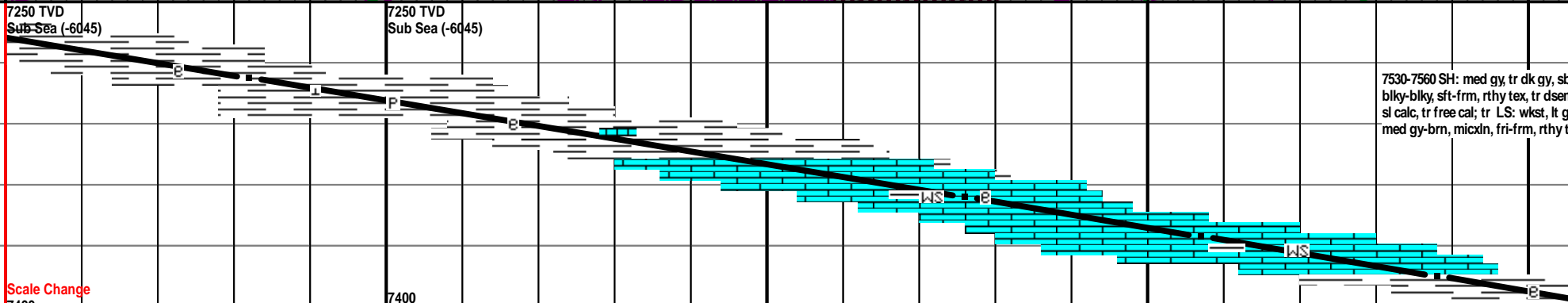
MD 7099
Inc 28.40
Azm 50.40
TVD 7082.32
VS 6.83

MD 7193
Inc 38.20
Azm 54.30
TVD 7160.80
VS 12.76

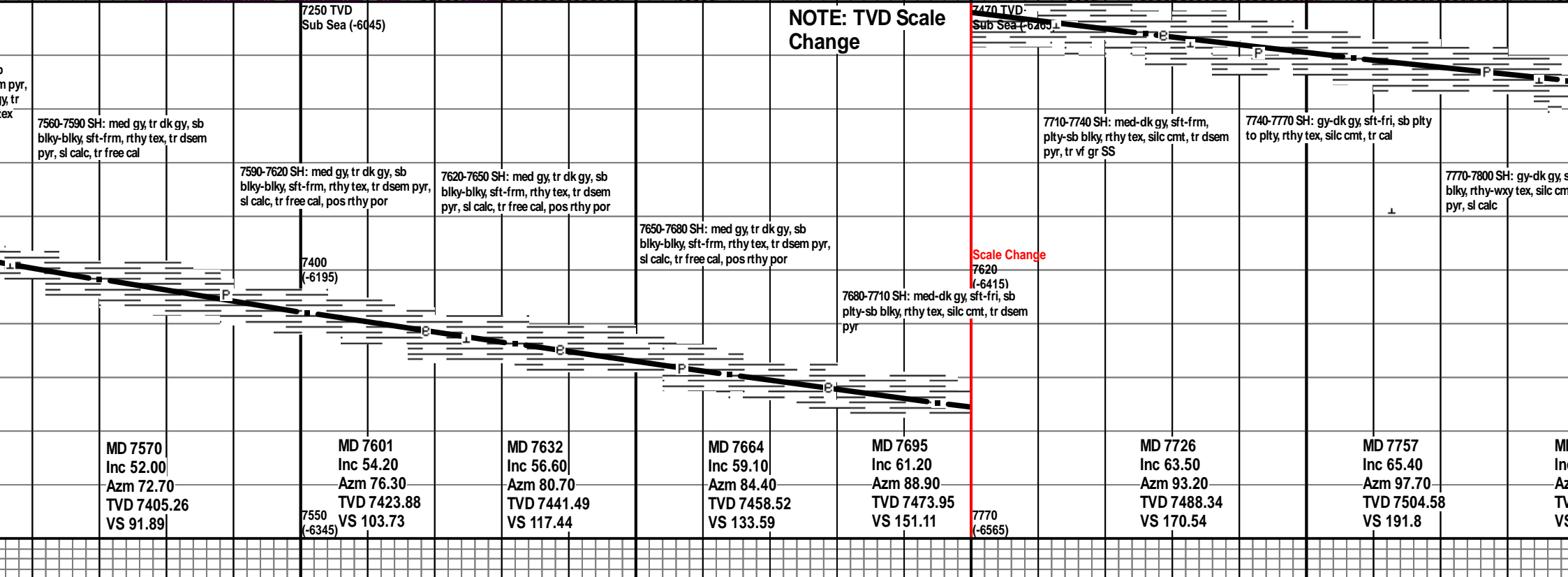
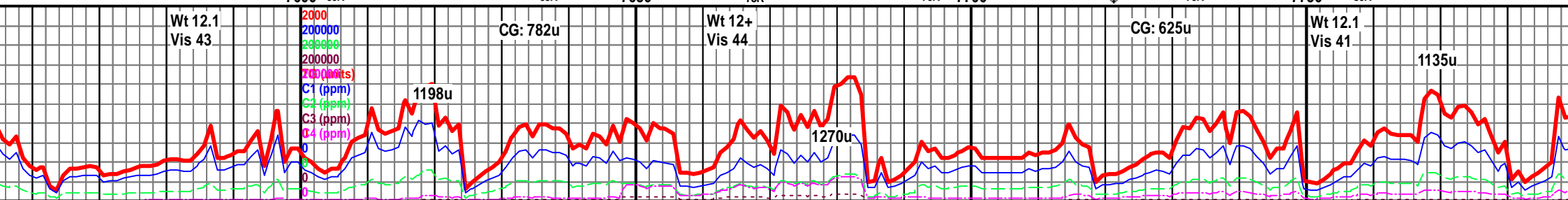
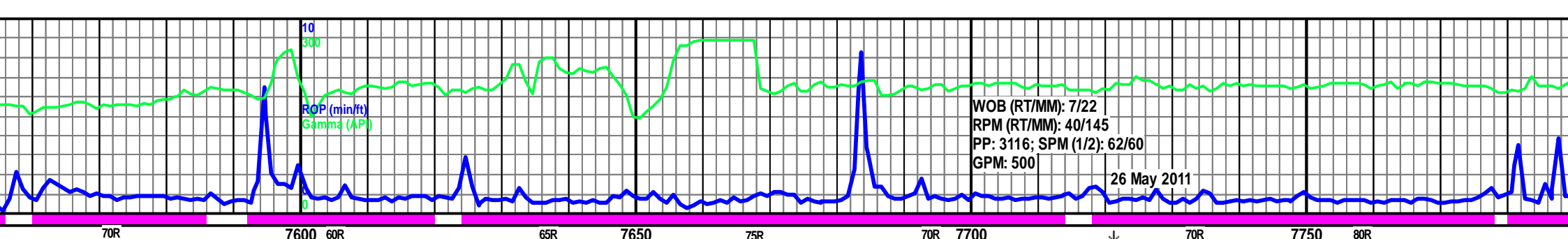
MD 7288
Inc 50.10
Azm 55.90
TVD 7228.83
VS 23.32

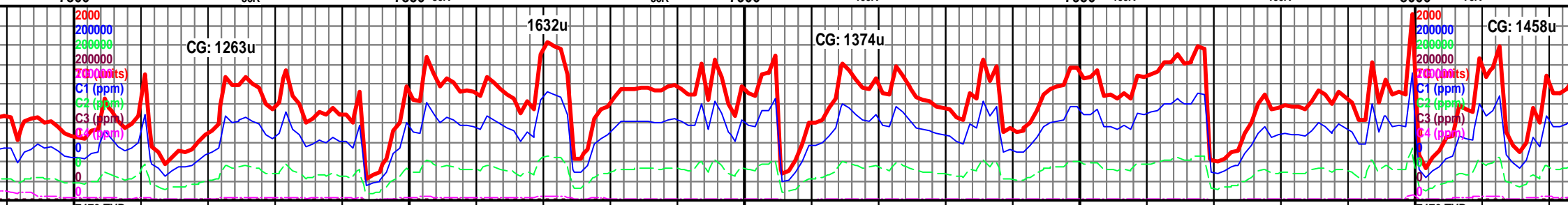
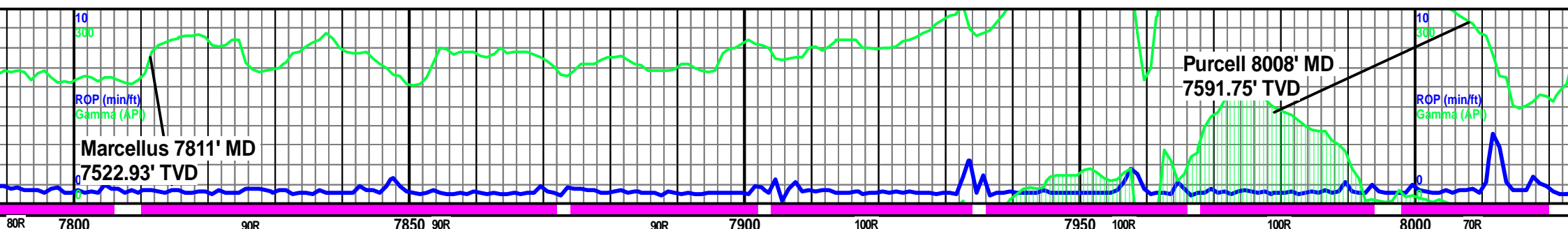


Note: TVD Scale Change



7320-7350 SH: med gy, tr dk gy, sb blkly-blky, frm, tr sft, rthy tex, tr dsem pyr, sl calc, tr free cal	7380-7410 SH: med gy, tr dk gy, sb blkly-blky, frm, tr sft, rthy tex, tr dsem pyr, sl calc, tr free cal	7410-7440 SH: med gy, tr dk gy, sb blkly-blky, frm, tr sft, rthy tex, tr dsem pyr, v calc, tr free cal; tr LS: wkst, lt gy, tr med gy-brn, micxn, fri-frm, rthy tex	7440-7470 LS: wkst, lt gy, tr med gy-brn, micxn, fri-frm, rthy tex; occ SH: med gy, tr dk gy, sb blkly-blky, frm, tr sft, rthy tex, tr dsem pyr, sl calc, tr free cal	7470-7500 LS: wkst, lt gy, tr med gy-brn, micxn, fri-frm, rthy tex; rr SH: med gy, tr dk gy, sb blkly-blky, frm, tr sft, rthy tex, tr dsem pyr, sl calc, tr free cal	7500-7530 LS: wkst, lt gy, tr med gy-brn, micxn, fri-frm, rthy tex; rr SH: med gy, tr dk gy, sb blkly-blky, frm, tr sft, rthy tex, tr dsem pyr, sl calc, tr free cal	7530-7560 SH: med gy, tr dk gy, sb blkly-blky, sft-frm, rthy tex, tr dsem pyr, sl calc, tr free cal; tr LS: wkst, lt gy, tr med gy-brn, micxn, fri-frm, rthy tex
MD 7382 Inc 52.40 Azm 62.40 TVD 7287.70 VS 40.06	MD 7476 Inc 51.20 Azm 67.10 TVD 7345.85 VS 63.78	MD 7507 Inc 50.70 Azm 67.40 TVD 7365.38 VS 72.51	MD 7538 Inc 50.10 Azm 68.70 TVD 7385.14 VS 81.48			

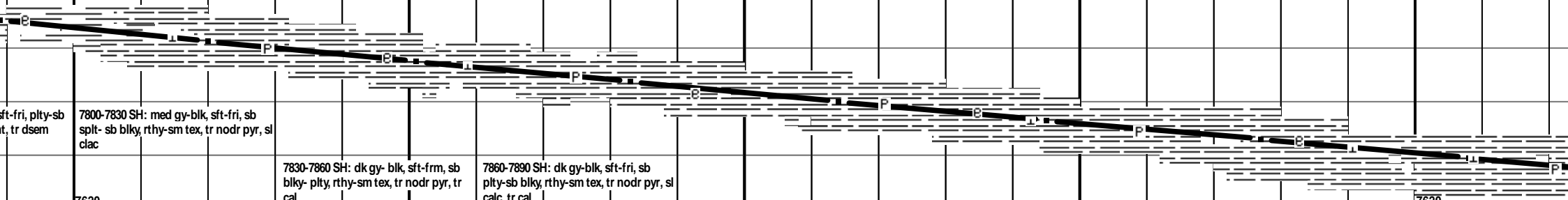




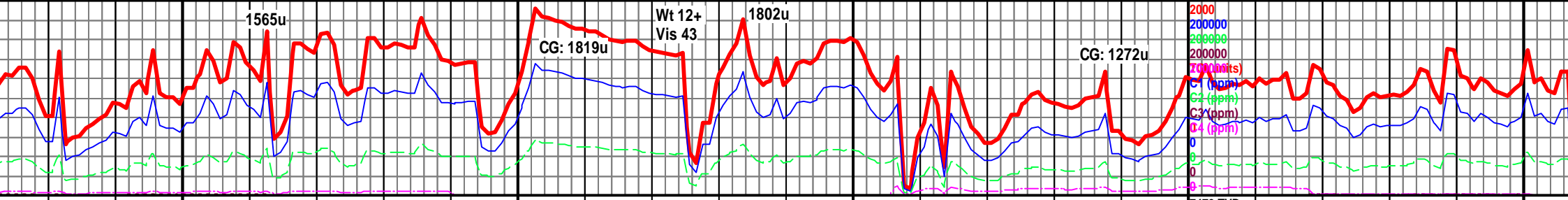
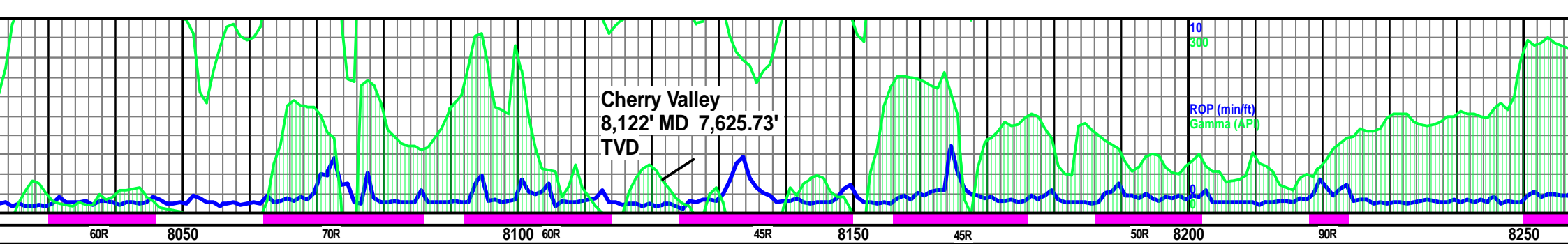
7470 TVD Sub Sea (-6265)

Visible Gas Escaping From Sample

7470 TVD Sub Sea (-6265)

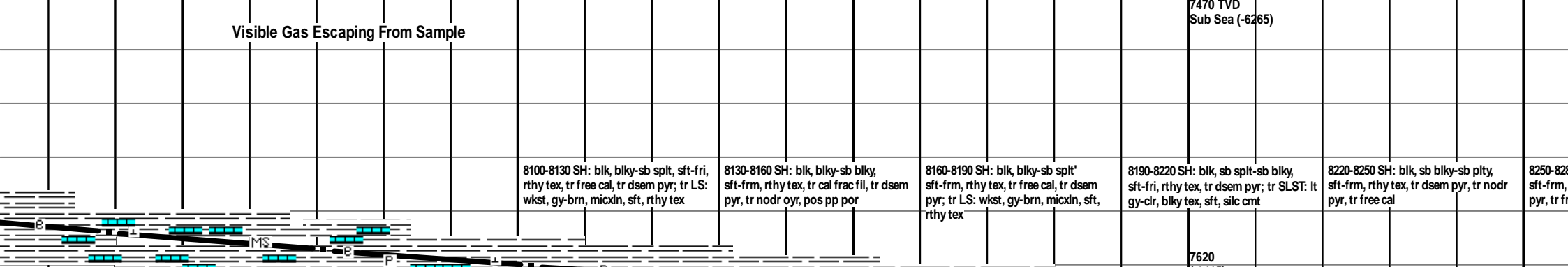


7800-7830 SH: med gy-blk, sft-fri, sb split- sb blk, rthy-sm tex, tr nodr pyr, sl calc	7830-7860 SH: dk gy- blk, sft-frm, sb blk- pty, rthy-sm tex, tr nodr pyr, tr cal	7860-7890 SH: dk gy-blk, sft-fri, sb pty-sb blk, rthy-sm tex, tr nodr pyr, sl calc, tr cal	7890-7920 SH: dk gy-blk, tr med gy, sft-fri, pty-sb blk, rthy tex, tr dsem pyr, sl calc	7920-7950 SH: blk, sft-frm, sb split-sb blk, rthy-wxy tex, tr nodr pyr, tr dsem pyr, tr cal, pos frac por	7950-7980 SH: blk, sft-frm, sb split-sb pty, rthy tex, tr nodr pyr, tr cal	7980-8010 SH: blk, sft-frm, sb split-sb blk, rthy tex, tr nodr pyr, tr dsem pyr, tr cal, sl calc	8010-8040 SH: blk, sft-frm, sb split-sb blk, rthy tex, no fl frac
MD 7789 Inc 67.30 Azm 101.20 TVD 7514.56 VS 215.34 7770 (-6565)	MD 7820 Inc 68.00 Azm 105.00 TVD 7526.35 VS 239.42	MD 7851 Inc 69.00 Azm 110.00 TVD 7537.72 VS 264.76	MD 7883 Inc 69.80 Azm 114.40 TVD 7548.89 VS 292.16	MD 7914 Inc 70.00 Azm 119.00 TVD 7559.64 VS 319.63	MD 7945 Inc 69.80 Azm 123.00 TVD 7570.30 VS 347.74	MD 7977 Inc 69.90 Azm 128.00 TVD 7581.33 VS 377.27	MD 8008 Inc 70.80 Azm 131.10 TVD 7591.75 VS 406.25 7770 (-6565)



Visible Gas Escaping From Sample

7470 TVD
Sub Sea (-6265)



8100-8130 SH: blk, blk-y-sb spl't, sft-fri, rthy tex, tr free cal, tr dsem pyr; tr LS: wkst, gy-brn, micxn, sft, rthy tex

8130-8160 SH: blk, blk-y-sb blk-y, sft-fri, rthy tex, tr cal frac fil, tr dsem pyr, tr nodr oyr, pos pp por

8160-8190 SH: blk, blk-y-sb spl't, sft-fri, rthy tex, tr free cal, tr dsem pyr; tr LS: wkst, gy-brn, micxn, sft, rthy tex

8190-8220 SH: blk, sb spl't-sb blk-y, sft-fri, rthy tex, tr dsem pyr; tr SLST: lt gy-clr, blk-y tex, sft, silc omt

8220-8250 SH: blk, sb blk-y-sb plty, sft-fri, rthy tex, tr dsem pyr, tr nodr pyr, tr free cal

8250-8280 SH: sft-fri, rthy tex, tr dsem pyr, tr nodr pyr, tr free cal

7620
(-6415)

k, sft-fri, sb spl't-sb dr pyr, tr calc, pos cal

8040-8070 SH: blk, sb blk-y-blky, sft-fri, rthy tex, tr free cal; tr LS: mdst, gy-wh, micxn, sft, rthy tex

8070-8100 SH: blk, sb spl't-blky, sft-fri, rthy-sm tex, tr free cal, tr cal frac fil, tr nodr pyr, tr desc pyr; occ LS: mdst, gy-wt, micxn, sft, rthy tex

MD 8039
Inc 72.00
Azm 133.60
TVD 7601.64
VS 435.59

MD 8071
Inc 72.30
Azm 135.90
TVD 7611.45
VS 466.04

MD 8102
Inc 73.70
Azm 139.10
TVD 7620.52
VS 466.04

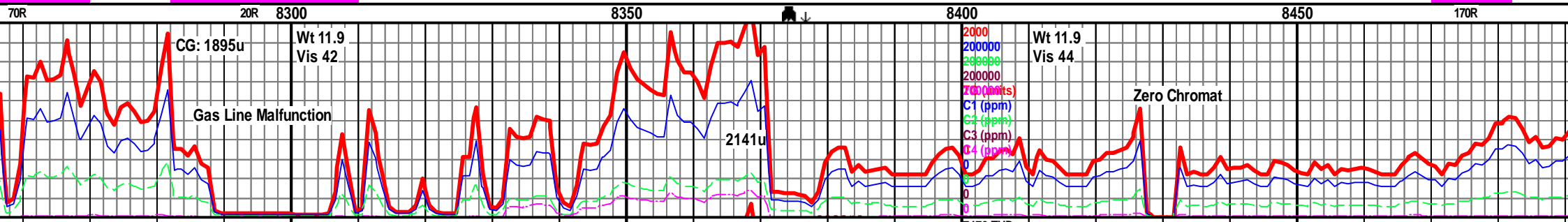
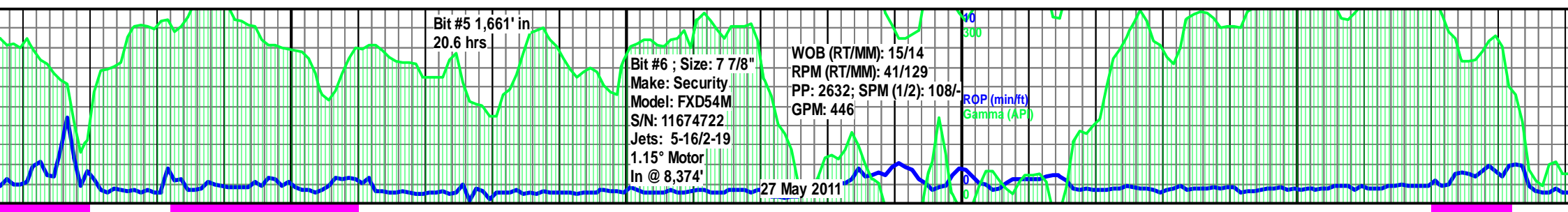
MD 8133
Inc 76.10
Azm 141.30
TVD 7628.59
VS 525.52

MD 8165
Inc 79.60
Azm 144.00
TVD 7635.33
VS 556.58

MD 8196
Inc 82.00
Azm 145.80
TVD 7640.28
VS 586.81

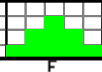
7770
(-6565)

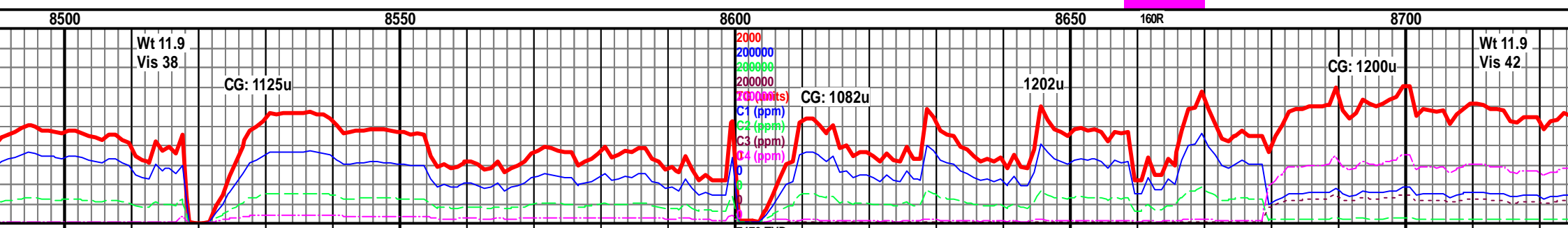
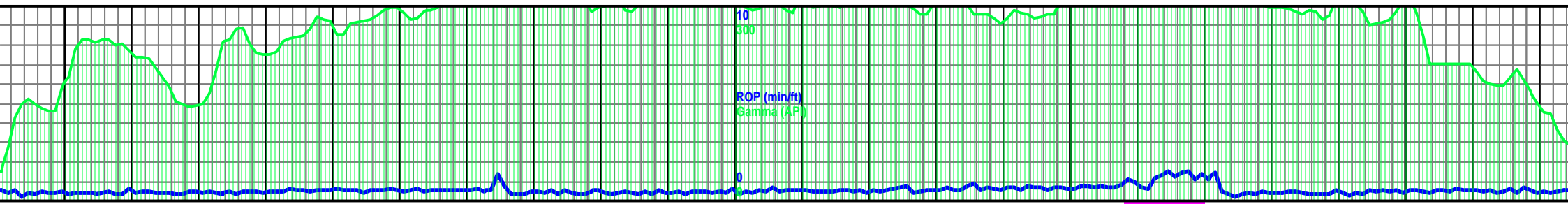
MD 8228
Inc 82.60
Azm 146.60
TVD 7644.57
VS 618.02



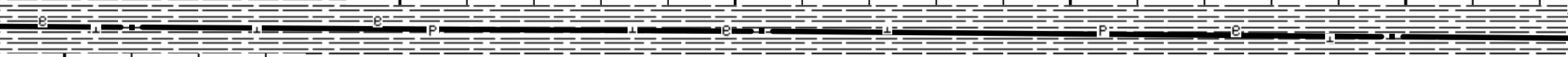
				Curve Landed at 8,374' MD 7,653.72' TVD @ 19:30 hrs on 26 May 2011	7470 TVD Sub Sea (-6265) Visible Gas Escaping From Sample			
8280-8310 SH: blk, sb blk-y-sb plty, sft-frm, rthy tex, tr dsem pyr, tr nodr pyr, tr free cal	8310-8340 SH: blk, sb blk-y-sb plty, sft-frm, rthy tex, tr dsem pyr, tr nodr pyr, tr free cal	8340-8370 SH: blk, sb blk-y-sb plty, sft-frm, rthy tex, tr dsem pyr, tr nodr pyr, tr free cal	8370-8400 SH: blk, sft, sb blk-y-sb splt, rthy tex, tr free cal, tr frac fl cal; tr LS: mdst lt-dk gy, micxn, sft,rthy tex	8400-8430 SH: blk, sft-frm, split-sb blk-y, rthy-wxy tex, tr free cal	8430-8460 SH: blk, sft-frm, split-blky, rthy-wxy tex, occ free cal, tr frac fl cal, tr nodr pyr, tr dsem pyr	8460-8490 SH: blk, sft-frm, sb split-sb blk-y, rthy-wxy tex, tr free cal, tr nodr pyr, tr dsem oyr		

			MD 8322 Inc 88.00 Azm 150.20 TVD 7652.27 VS 709.46		MD 8416 Inc 88.80 Azm 150.80 TVD 7654.90 VS 800.43		
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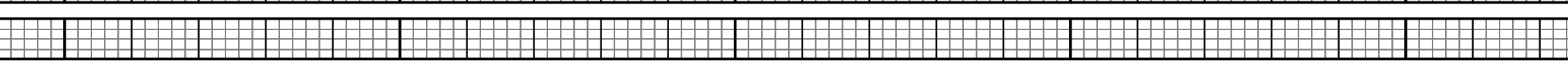


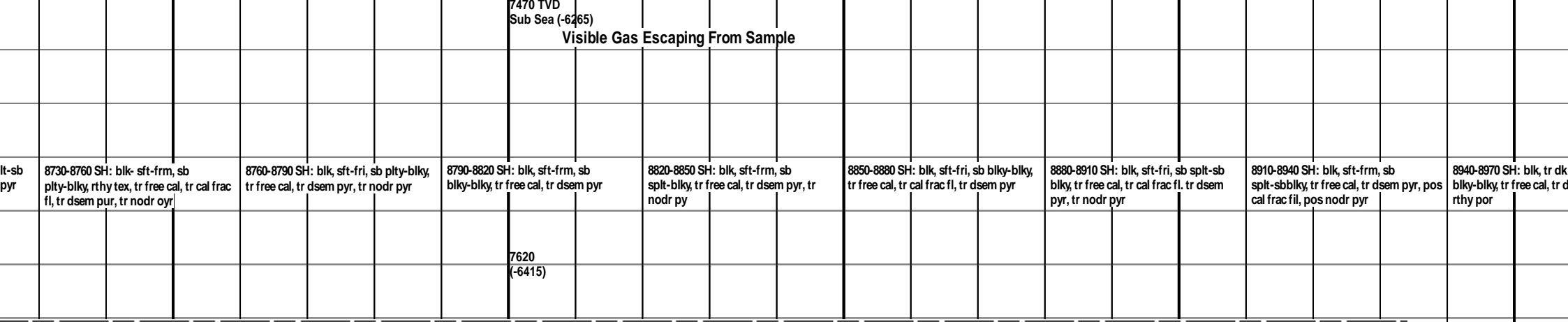
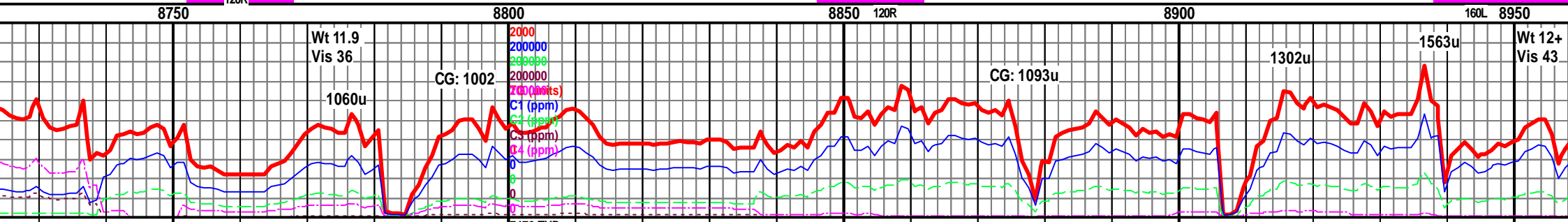
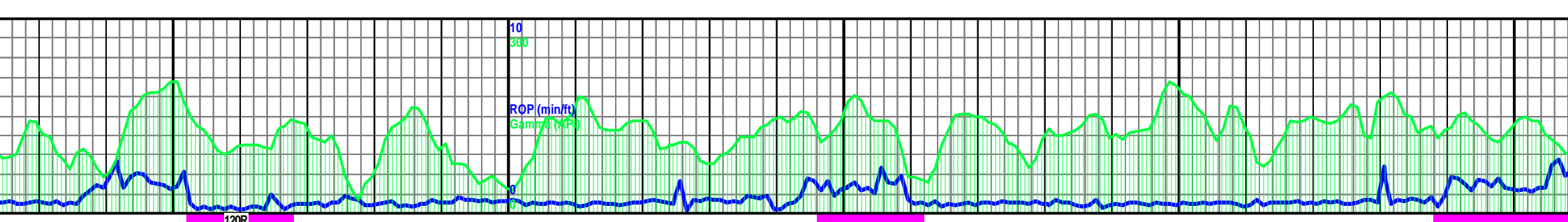


8490-8520 SH: blk, sft-frm, sb split-sb-blky, rthy tex, occ free cal, tr cal frac fl	8520-8550 SH: blk, sft-frm, sb blk-ylky, rthy tex, tr free cal, tr cal frac fl	8550-8580 SH: blk, sft-frm, sb split-sb blk-ylky, rthy tex, tr free cal, tr cal frac fl, tr nodr pyr	8580-8610 SH: blk, sft-frm, sb split-sb blk-ylky, rthy tex, tr free cal, tr cal frac fl	8610-8640 SH: blk, sft-frm, sb blk-ylky-blky, rthy tex, tr free cal, tr cal frac fl, tr dsem pyr	8640-8670 SH: blk, sft-frm, split-blky, rthy tex, tr free cal, tr dsem pyr	8670-8700 SH: blk, sft-frm, sb split-sb blk-ylky, rthy tex, tr free cal, tr cal frac fl, tr dsem pyr	8700-8730 SH: blk, sft-frm, sb split-sb blk-ylky, rthy tex, tr free cal, tr cal frac fl, tr dsem pyr
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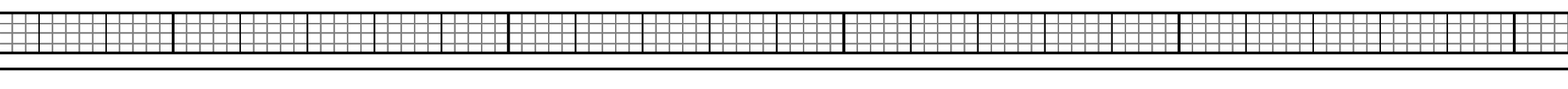


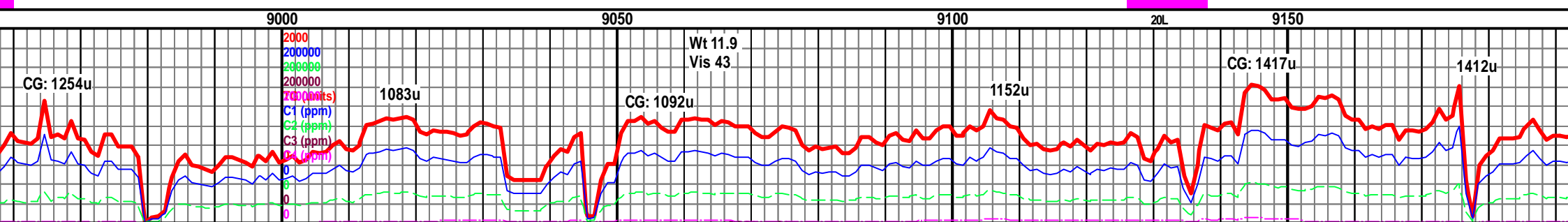
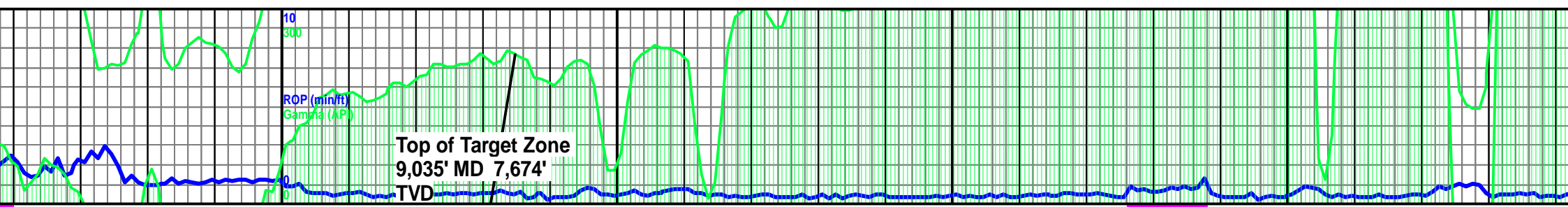
MD 8510 Inc 88.30 Azm 151.10 TVD 7657.28 VS 891.21	MD 8604 Inc 88.50 Azm 151.00 TVD 7659.90 VS 981.95	MD 8698 Inc 88.00 Azm 151.030 TVD 7662.77 VS 1072.63
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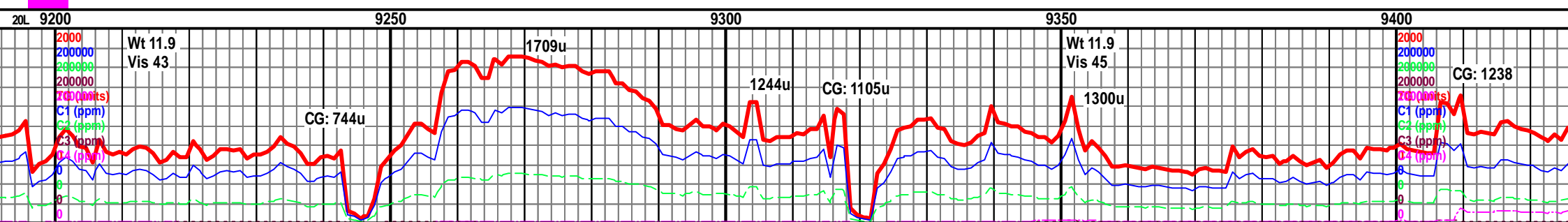
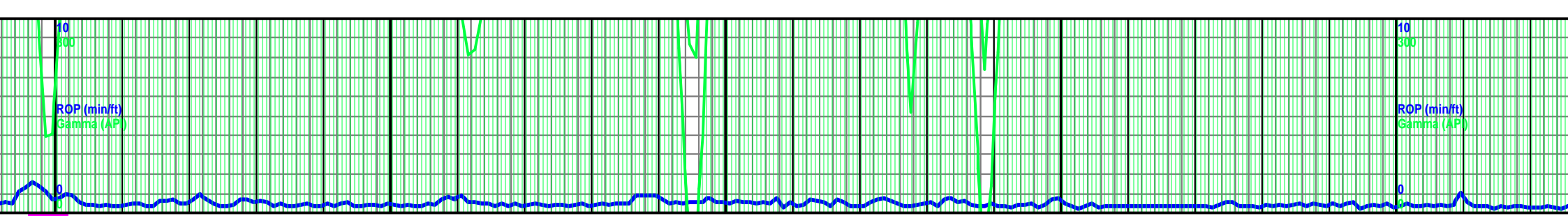
8730-8760 SH: blk- sft-frm, sb plty-blky, rthy tex, tr free cal, tr cal frac fl, tr dsem pur, tr nodr pyr	8760-8790 SH: blk, sft-fri, sb plty-blky, tr free cal, tr dsem pyr, tr nodr pyr	8790-8820 SH: blk, sft-frm, sb blk-ylky, tr free cal, tr dsem pyr	8820-8850 SH: blk, sft-frm, sb split-blky, tr free cal, tr dsem pyr, tr nodr py	8850-8880 SH: blk, sft-fri, sb blk-ylky, tr free cal, tr cal frac fl, tr dsem pyr	8880-8910 SH: blk, sft-fri, sb split-sb blk-ylky, tr free cal, tr cal frac fl, tr dsem pyr, tr nodr pyr	8910-8940 SH: blk, sft-frm, sb split-sb blk-ylky, tr free cal, tr dsem pyr, pos cal frac fil, pos nodr pyr	8940-8970 SH: blk, tr dk blk-ylky, tr free cal, tr rthy por
	MD 8792 Inc 88.60 Azm 154.20 TVD 7665.56 VS 1162.64				MD 8885 Inc 88.50 Azm 155.2 TVD 7667.92 VS 1250.75		





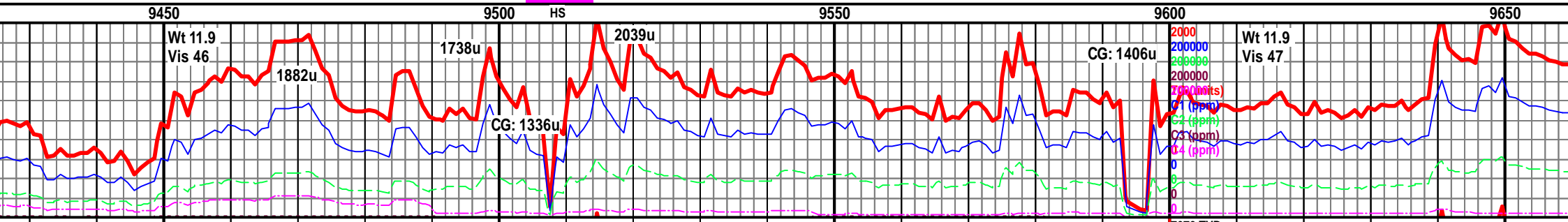
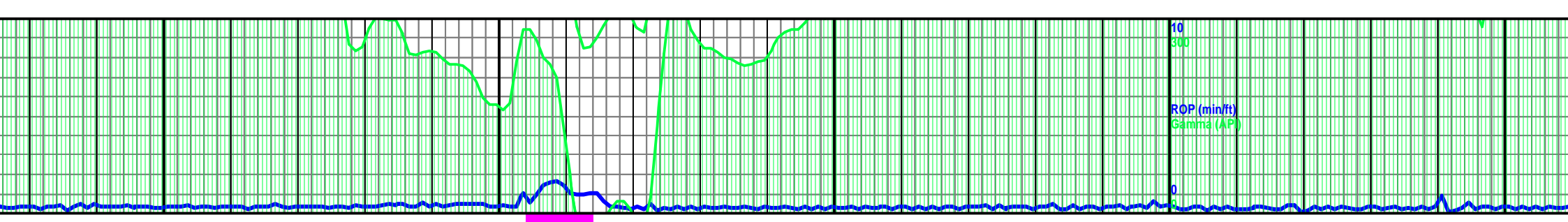
7470 TVD Sub Sea (-6265)	Visible Gas Escaping From Sample									
gy, sft-frm, sb dsem pyr, pos	8970-9000 SH: blk, tr dk gy, sft-frm, sb blk-y-bkly, tr free cal, tr dsem pyr, pos rthy por	9000-9030 SH: blk, tr dk gy, sft-frm, sb blk-y-bkly, tr free cal, tr dsem pyr, pos rthy por	9030-9060 SH: blk, tr dk gy, sft-frm, sb blk-y-bkly, tr free cal, tr dsem pyr, pos rthy por	9060-9090 SH: blk, sft-frm, blk-y-sb plty, tr free cal, tr dsem pyr, pos rthy por	9090-9120 SH: blk, sft-frm, blk-y-sb plty, sl calc, tr free cal, tr dsem pyr, pos rthy por	9120-9150 SH: blk, sft-frm, blk-y-sb plty, sl calc, tr free cal, tr dsem pyr, pos rthy por	9150-9180 SH: blk, sft-frm, blk-y-sb plty, sl calc, tr free cal, tr dsem pyr, pos rthy por	9180-9210 SH: blk, sft-frm, blk-y-sb plty, sl calc, tr free cal, tr dsem pyr, pos rthy por	9210-9240 SH: blk, sft-frm, blk-y-sb plty, sl calc, tr free cal, tr dsem pyr, pos rthy por	9240-9270 SH: blk, sft-frm, blk-y-sb plty, sl calc, tr free cal, tr dsem pyr, pos rthy por

MD 8979 Inc 87.40 Azm 155.00 TVD 7671.28 VS 1339.51	7770 (-6565)	MD 9073 Inc 86.80 Azm 154.20 TVD 7676.03 VS 1428.48	MD 9168 Inc 88.10 Azm 154.10 TVD 7680.26 VS 1518.65
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7470 TVD Sub Sea (-6265) Visible Gas Escaping From Sample	7470 TVD Sub Sea (-6265)
blk, sft-frm, blk-sb plty, al, tr dsem pyr, pos rthy	blk, sft-frm, blk-sb plty, al, tr dsem pyr, pos rthy
9210-9240 SH: blk, sft-frm, blk-sb plty, sl calc, tr free cal, tr dsem pyr, pos rthy por	9240-9270 SH: blk, tr dk gy, sft-frm, blk-sb blk, rthy tex sl calc, tr free cal, tr dsem & nodr pyr, pos rthy por
9270-9300 SH: blk, tr dk gy, sft-frm, blk-sb blk, rthy tex sl calc, tr free cal, tr dsem & nodr pyr, pos rthy por	9300-9330 SH: blk, tr dk gy, sft-frm, blk-sb blk, rthy tex sl calc, tr free cal, tr dsem & nodr pyr, pos rthy por
9330-9360 SH: blk, tr dk gy, sft-frm, blk-sb blk, rthy tex sl calc, tr free cal, tr dsem & nodr pyr, pos rthy por	9360-9390 SH: dk gy-blk, blk-sb blk, sft-frm, rthy tex, v calc, tr free cal, tr dsem pyr, pos rthy por
9390-9420 SH: dk gy-blk, blk-sb blk, sft-frm, rthy tex, v calc, tr free cal, tr dsem pyr, pos rthy por	9420-9450 SH: dk gy-blk, blk-sb blk, sft-frm, rthy tex, v calc, tr free cal, tr dsem pyr, pos rthy por

7770 (-6565)	MD 9262 Inc 88.30 Azm 152.70 TVD 7683.21 VS 1608.30	MD 9356 Inc 88.10 Azm 151.70 TVD 7686.17 VS 1698.52	7770 (-6565)
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NOTE: TVD Scale Change

7670 TVD
Sub Sea (-6465)

9450 SH: dk gy-blk, blkly-sb blkly, n, rthy tex, v calc, tr free cal, tr pyr, pos rthy por	9450-9480 SH: dk gy-blk, blkly-sb blkly, sft-frm, rthy tex, v calc, tr free cal, tr dsem pyr, pos rthy por	9480-9510 SH: blk, tr dk gy, sb blkly-blky, sft-frm, rthy tex, sl calc, tr free cal, tr dsem & nodr pyr, pos rthy por	9510-9540 SH: blk, tr dk gy, sb blkly-blky, sft-frm, rthy tex, sl calc, tr free cal, tr dsem & nodr pyr, pos rthy por	9540-9570 SH: blk, tr dk gy, sb blkly-blky, sft-frm, rthy tex, sl calc, tr free cal, tr dsem & nodr pyr, pos rthy por	9570-9600 SH: blk, tr dk gy, sb blkly-blky, sft-frm, rthy tex, sl calc, tr free cal, tr dsem & nodr pyr, pos rthy por	9630-9660 SH: blk, tr dk gy, sb blkly-blky, sft-frm, rthy tex, sl calc, tr free cal, tr dsem & nodr pyr, pos rthy por
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Scale Change
7720
(-6515)

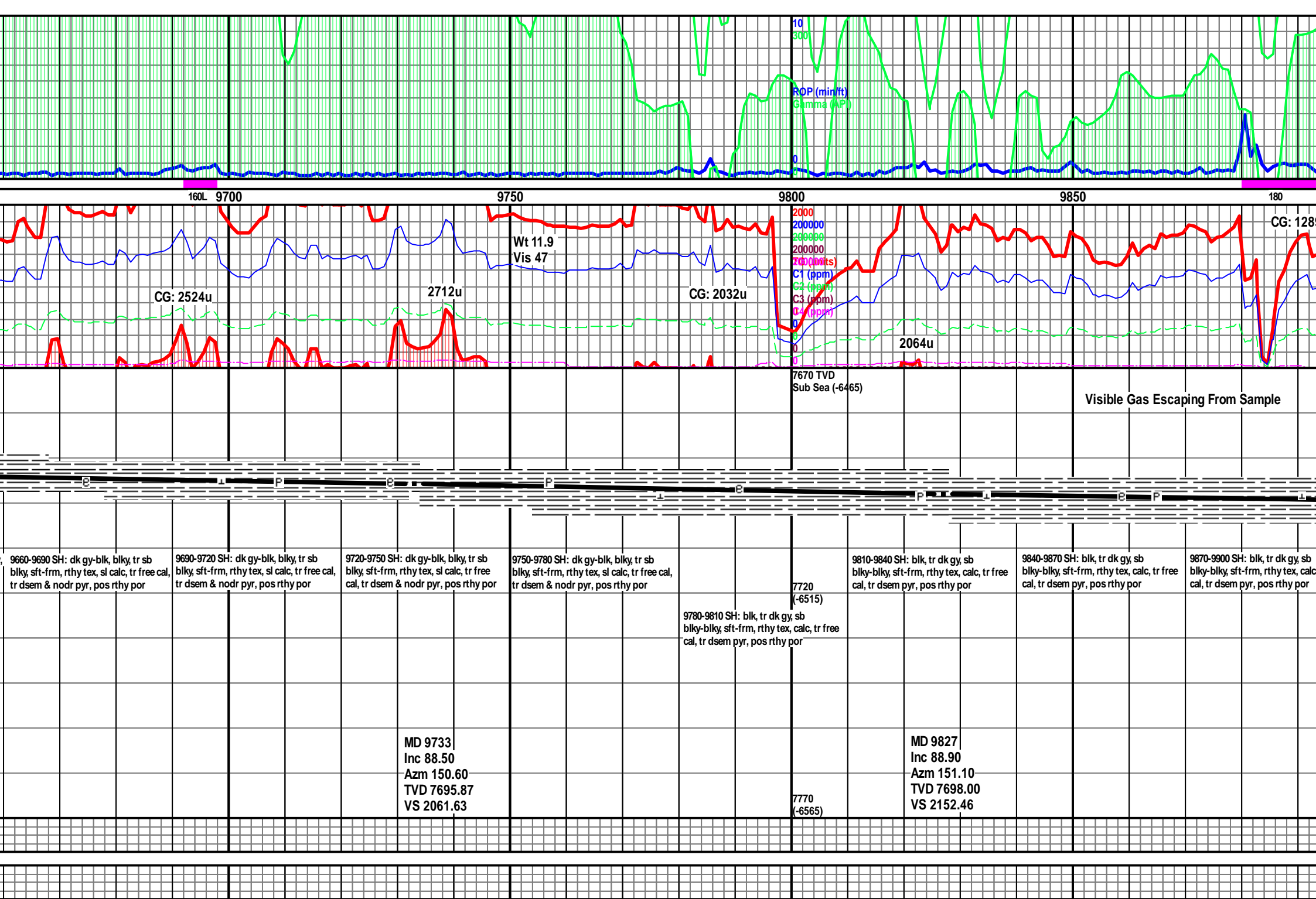
9600-9630 SH: blk, tr dk gy, sb blkly-blky, sft-frm, rthy tex, sl calc, tr free cal, tr dsem & nodr pyr, pos rthy por

MD 9450
Inc 87.70
Azm 151.50
TVD 7689.61
VS 1788.99

MD 9544
Inc 89.10
Azm 151.70
TVD 7692.23
VS 1879.49

7770
(-6565)

MD 9638
Inc 89.00
Azm 151.70
TVD 7693.79
VS 1969.96



160L 9700

9750

9800

9850

180

CG: 2524u

2712u

CG: 2032u

2064u

CG: 128u

Wt 11.9
Vis 47

2000
20000
200000
2000000
ROD (in/ft)
C1 (ppm)
C2 (ppm)
C3 (ppm)
C4 (ppm)

7670 TVD
Sub Sea (-6465)

Visible Gas Escaping From Sample

9660-9690 SH: dk gy-blk, blk, tr sb
blk, sft-frm, rthy tex, sl calc, tr free cal,
tr dsem & nodr pyr, pos rthy por

9690-9720 SH: dk gy-blk, blk, tr sb
blk, sft-frm, rthy tex, sl calc, tr free cal,
tr dsem & nodr pyr, pos rthy por

9720-9750 SH: dk gy-blk, blk, tr sb
blk, sft-frm, rthy tex, sl calc, tr free
cal, tr dsem & nodr pyr, pos rthy por

9750-9780 SH: dk gy-blk, blk, tr sb
blk, sft-frm, rthy tex, sl calc, tr free cal,
tr dsem & nodr pyr, pos rthy por

9780-9810 SH: blk, tr dk gy, sb
blk-blk, sft-frm, rthy tex, calc, tr free
cal, tr dsem pyr, pos rthy por

9810-9840 SH: blk, tr dk gy, sb
blk-blk, sft-frm, rthy tex, calc, tr free
cal, tr dsem pyr, pos rthy por

9840-9870 SH: blk, tr dk gy, sb
blk-blk, sft-frm, rthy tex, calc, tr free
cal, tr dsem pyr, pos rthy por

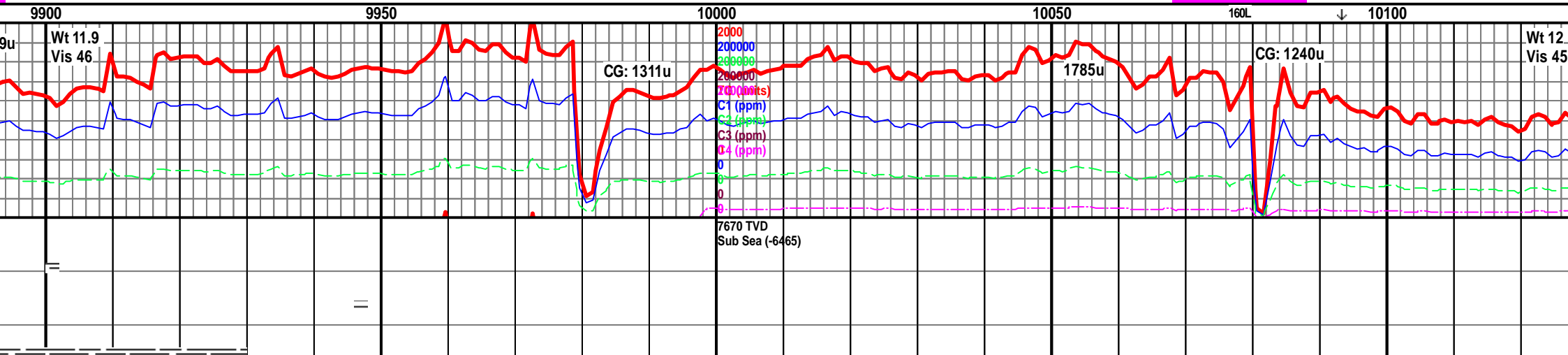
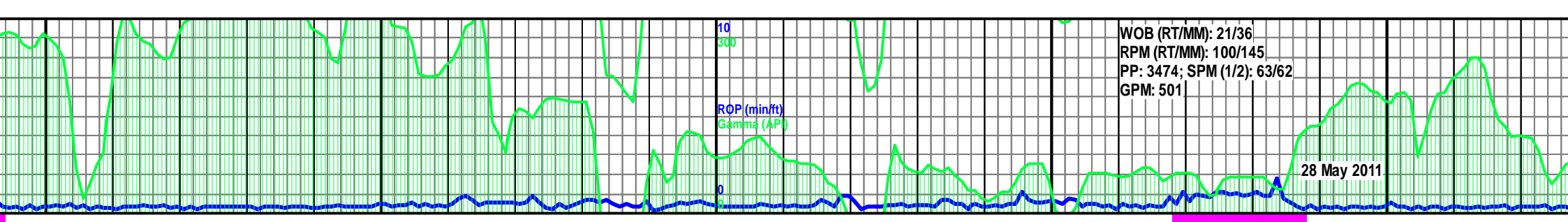
9870-9900 SH: blk, tr dk gy, sb
blk-blk, sft-frm, rthy tex, calc,
cal, tr dsem pyr, pos rthy por

MD 9733
Inc 88.50
Azm 150.60
TVD 7695.87
VS 2061.63

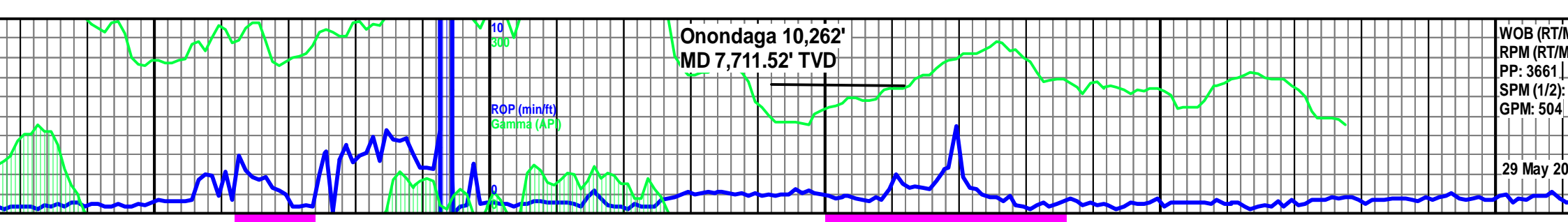
MD 9827
Inc 88.90
Azm 151.10
TVD 7698.00
VS 2152.46

7720
(-6515)

7770
(-6565)

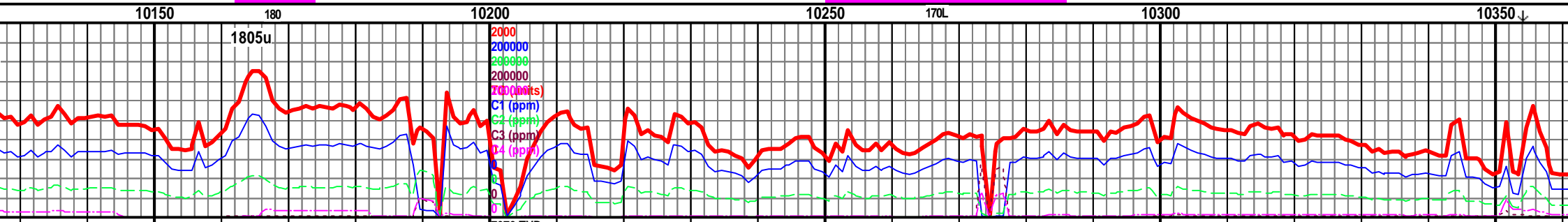


	9900-9930 SH: blk, tr dk gy, sb biky-biky, sft-frm, rthy tex, calc, tr free cal, tr dsem pyr, pos rthy por	9930-9960 SH: blk, tr dk gy, sb biky-biky, sft-frm, rthy tex, calc, tr free cal, tr dsem pyr, pos rthy por	9960-9990 SH: blk, tr dk gy, sb biky-biky, sft-frm, rthy tex, calc, tr free cal, tr dsem pyr, pos rthy por	9990-10020 SH: blk, tr dk gy, sb biky-biky, sft-frm, rthy tex, calc, tr free cal, tr dsem pyr, pos rthy por	10020-10050 SH: blk, tr dk gy, sb biky-biky, sft-frm, rthy tex, calc, tr free cal, occ cal frac fl, tr nodr pyr, pos rthy por	10050-10080 SH: blk, sb biky-sb split, sft-frm, rthy tex, tr free cal, occ cal frac fl, tr nodr pyr, pos rthy por	10080-10110 SH: blk, sb biky-biky, sft-frm, rthy tex, tr free cal; LS: mdst, gy-wh, micxn, sft, rthy tex	10110-10140 SH: blk, s sft-frm, rthy tex, tr free gy-wh, micxn, sft, rth
				7720 (-6515)				
	MD 9921 Inc 89.00 Azm 152.90 TVD 7699.72 VS 2242.80				MD 10015 Inc 89.50 Azm 152.00 TVD 7700.95 VS 2332.94			MD 10109 Inc 87.60 Azm 151.20 TVD 7703.34 VS 2423.44
				7770 (-6565)				

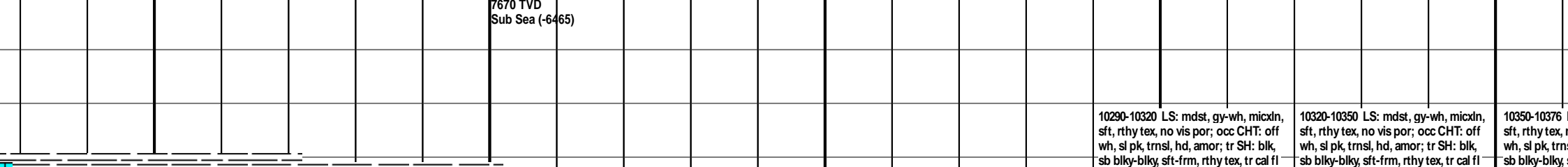


WOB (RT/M)
RPM (RT/M)
PP: 3661 |
SPM (1/2):
GPM: 504

29 May 20



7670 TVD
Sub Sea (-6465)



10290-10320 LS: mdst, gy-wh, micxn, sft, rthy tex, no vis por; occ CHT: off wh, sl pk, trnsl, hd, amor; tr SH: blk, sb blk-y-blky, sft-frm, rthy tex, tr cal fl frac, tr dsem pyr

10320-10350 LS: mdst, gy-wh, micxn, sft, rthy tex, no vis por; occ CHT: off wh, sl pk, trnsl, hd, amor; tr SH: blk, sb blk-y-blky, sft-frm, rthy tex, tr cal fl frac, tr dsem pyr

10350-10376 sft, rthy tex, no vis por; occ CHT: off wh, sl pk, trnsl, hd, amor; tr SH: blk, sb blk-y-blky, sft-frm, rthy tex, tr cal fl frac, tr dsem pyr

10140-10170 SH: blk, sb blk-y-blky, sft-frm, rthy tex, tr free cal; LS: mdst, gy-wh, micxn, sft, rthy tex

10170-10200 SH: blk, sb blk-y-blky, sft-frm, rthy tex, tr free cal; LS: mdst, gy-wh, micxn, sft, rthy tex

10200-10230 SH: blk, sb blk-y-blky, sft-frm, rthy tex, tr free cal; LS: mdst, gy-wh, micxn, sft, rthy tex

10230-10260 SH: blk, sb blk-y-blky, sft-frm, rthy tex, tr free cal; occ LS: mdst, gy-wh, micxn, sft, rthy tex

10260-10290 LS: mdst, gy-wh, micxn, sft, rthy tex, no vis por; occ SH: blk, sb blk-y-blky, sft-frm, rthy tex, tr cal fl frac, tr dsem pyr; tr CHT: off wh, sl pk, trnsl, hd, amor

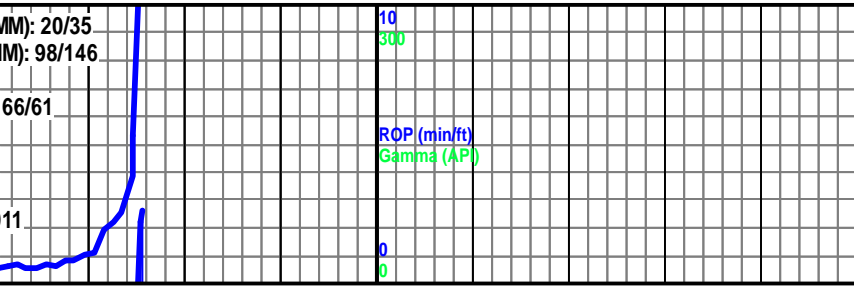
7720 (-6515)

7770 (-6565)

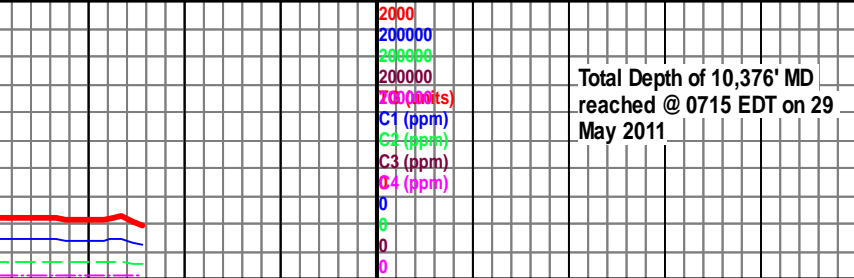
MD 10204
Inc 87.40 |
Azm 151.90
TVD 7707.47
VS 2514.87

MD 10298
Inc 84.60
Azm 152.00
TVD 7714.03
VS 2605.02

MD 10322
Inc 84.40 |
Azm 151.80
TVD 7716.32
VS 2639.32



10400 104



Total Depth of 10,376' MD
reached @ 0715 EDT on 29
May 2011

7670 TVD
Sub Sea (-6465)

LS: mdst, gy-wh, micxn,
no vis por; occ CHT: off
sl, hd, amor; tr SH: blk,
sft-frm, rthy tex, tr cal fl
pyr

Bottom Hole Location:
1,904.61' South & 1,901.60' East of
Surface Location



7720
(-6515)

Projection to Bit:
MD 10376
Inc 84.40
Azm 151.80
TVD 7721.59
VS 2691.03

7770
(-6565)