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GEOSTEERING LOG

WellSight Systems

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

Well Name: Turoczy #511510
Location: Rosemount 7.5' Quad, Booths Creek District, Taylor County, WV
License Number: API# 47-091-01211
Spud Date: 19 March 2011
Surface Coordinates: Latitude: 39.31620
Longitude: 80.16285
Bottom Hole Coordinates: 4,507.35' North and
858.89' West of surface location
Ground Elevation (ft): 1420
Logged Interval (ft): 6540 To: 12077
Formation: the Elks to Marcellus
Type of Drilling Fluid: Water based mud

Region: Appalachian Basin
Drilling Completed: 19 April 2011

K.B. Elevation (ft): 1442
Total Depth (ft): 12077

Printed by WellSight Log Viewer from WellSight Systems 1-800-447-1534 www.WellSight.co




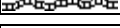
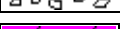

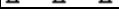
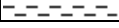








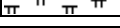

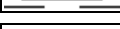
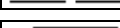
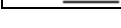



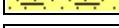

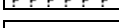
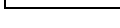
OPERATOR

Company: EQT Production Company
Address: EQT Plaza
625 Liberty Ave.
Pittsburgh, PA 15222








































































GEOLOGISTS

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 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
TOOLPUSHER: Michael Case
RIG: Patterson-UTI 622

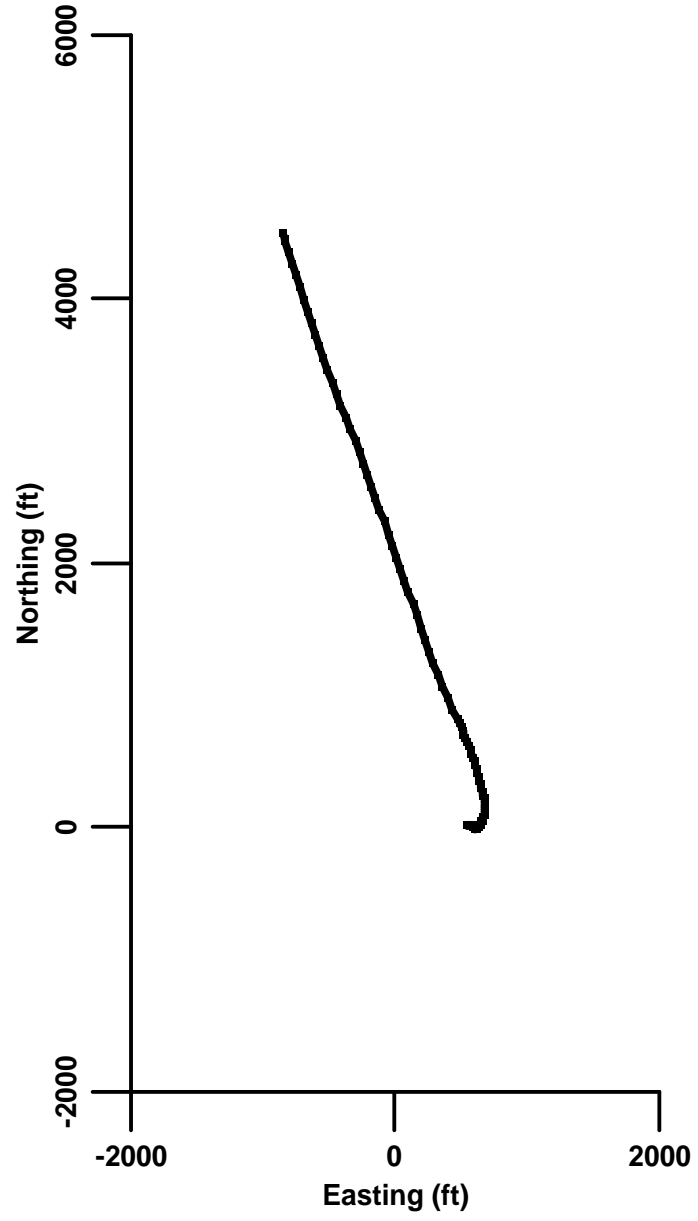
WV FILE #: 7020P511510

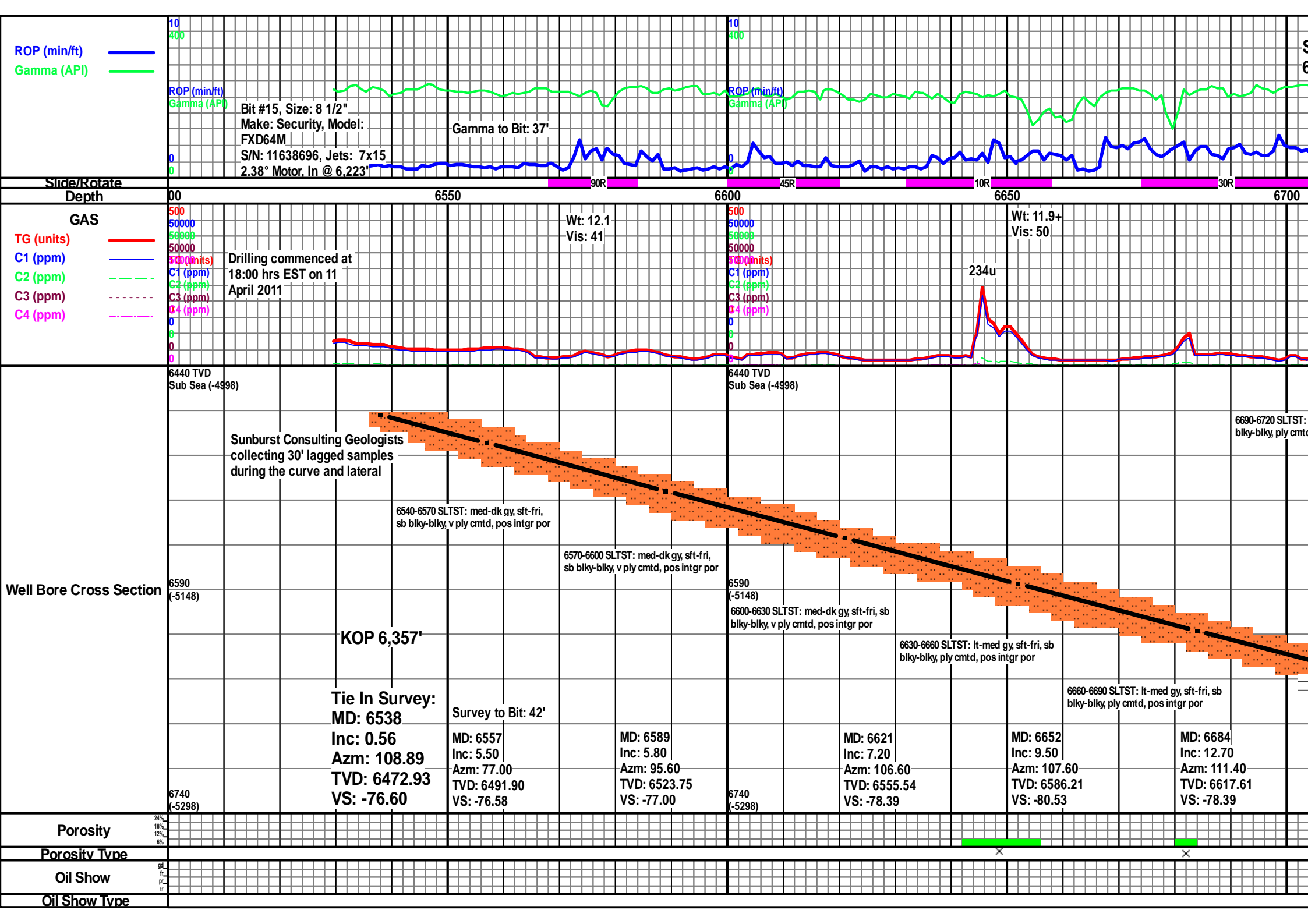
SURFACE CASING: 13 3/8", 54.5#, 23 JOINTS, SET @ 942'
INTERMEDIATE CASING: 9 5/8". 40.0#, 62 JOINTS, SET @ 2,488'

KOP: 6,357'

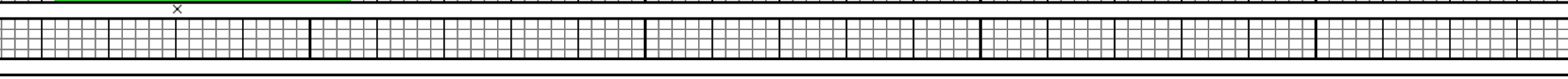
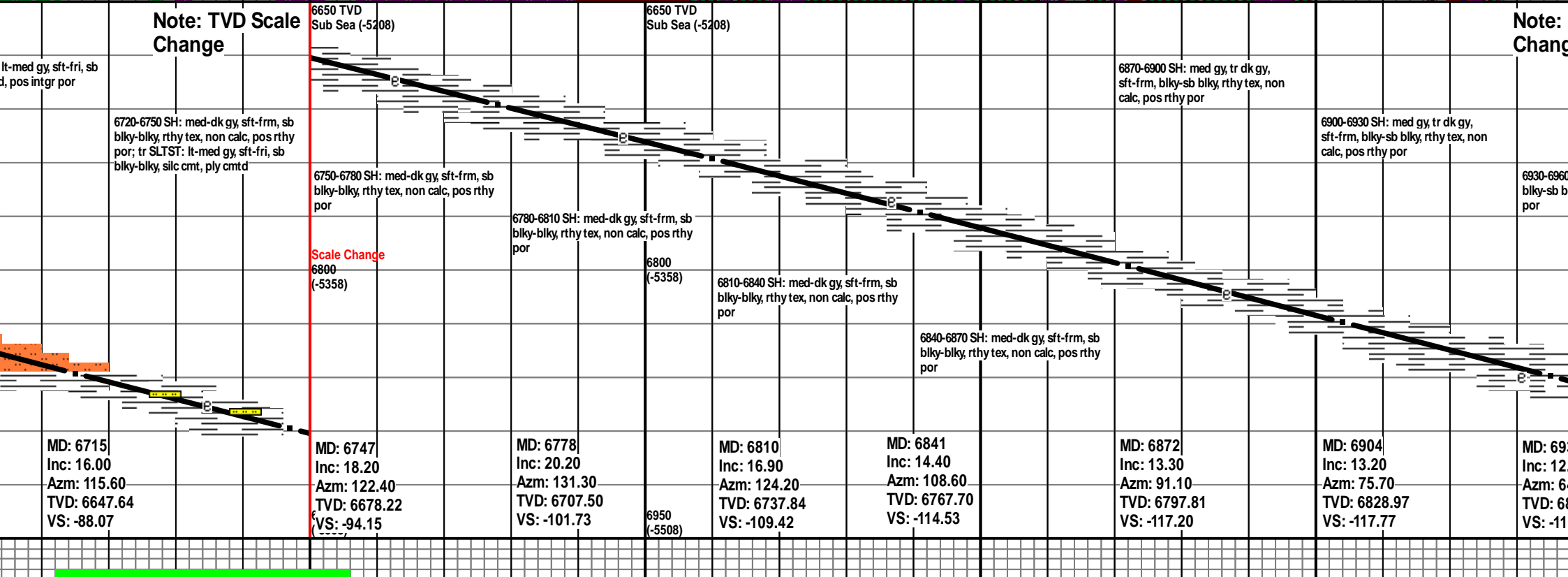
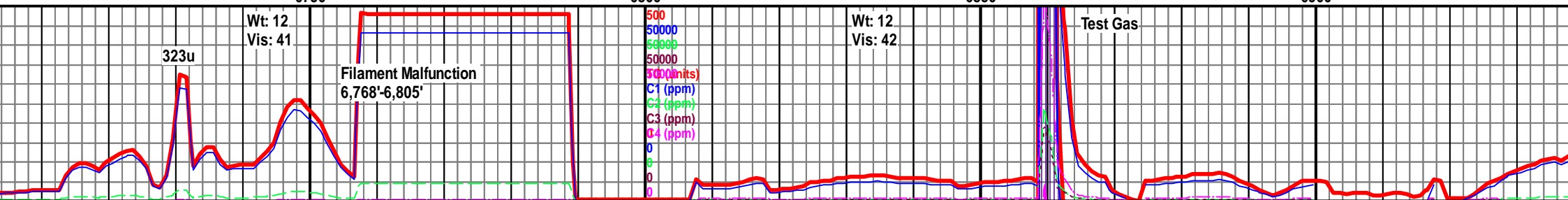
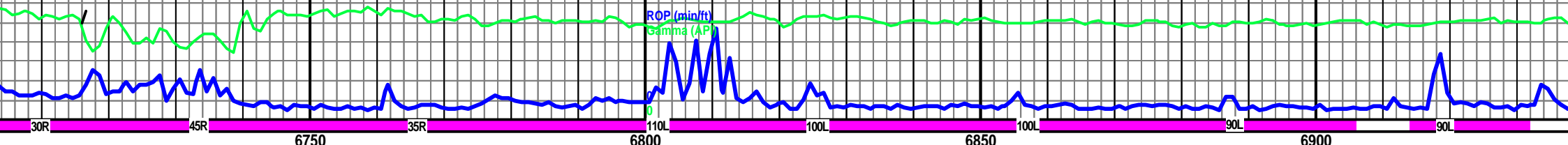
CLOSURE DIRECTION: 349.21 Degrees
CLOSURE DISTANCE: 4,588.45'

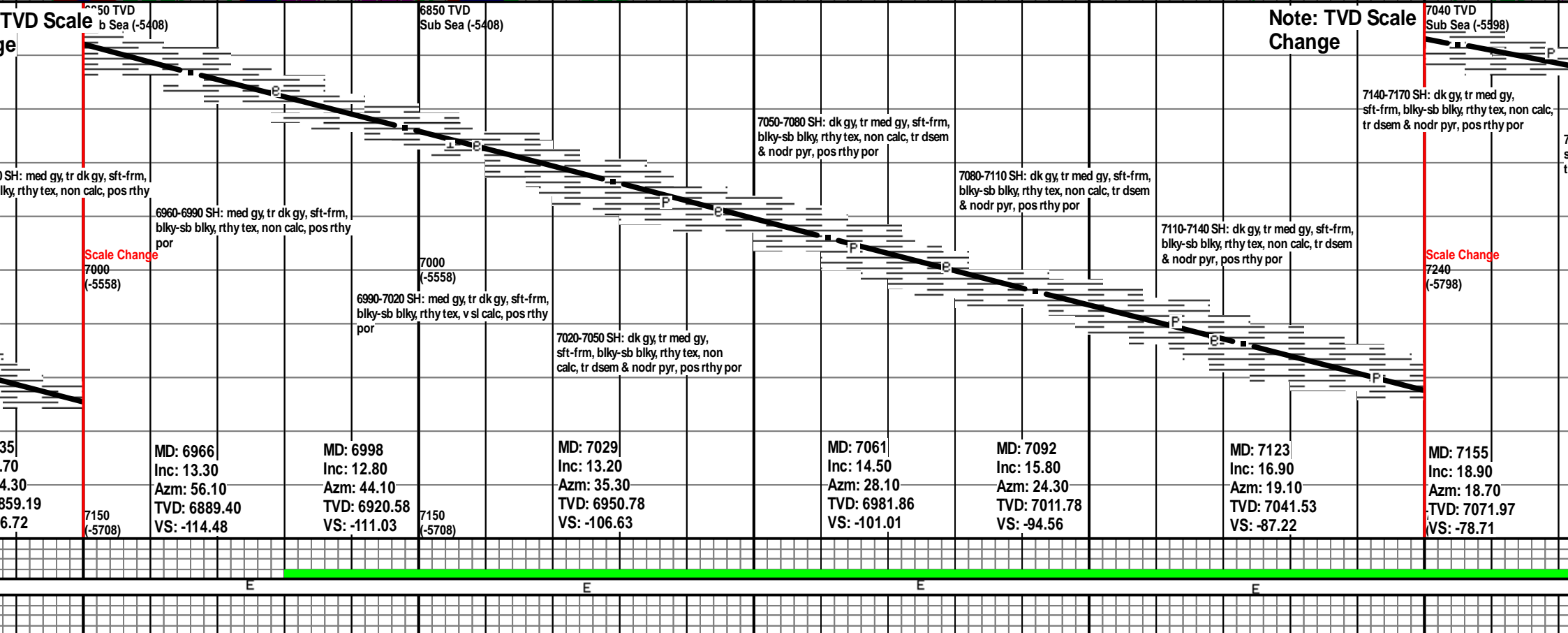
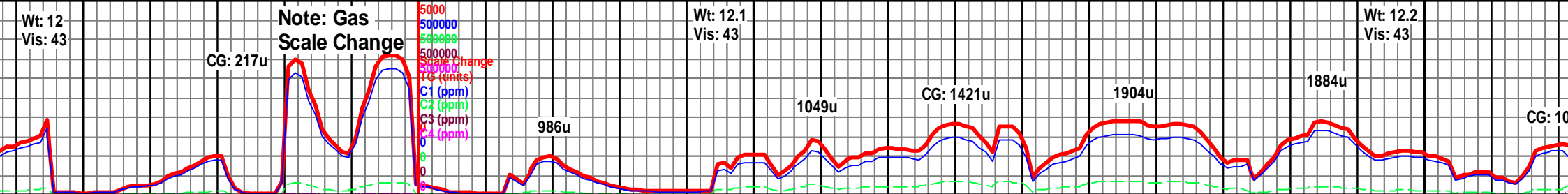
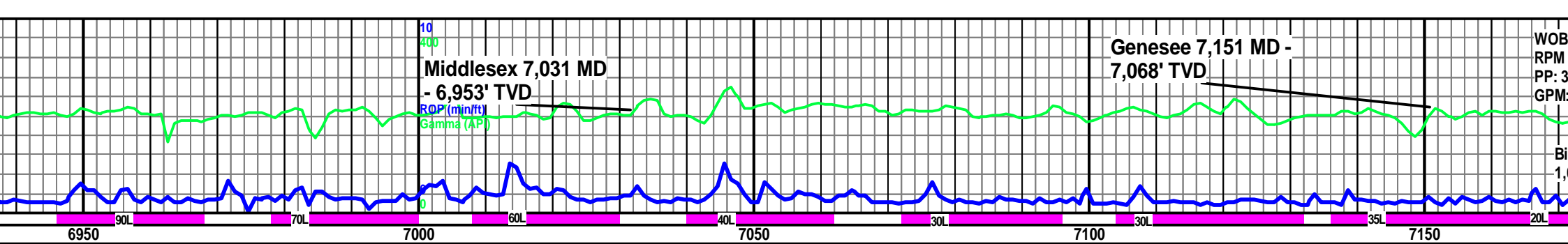
Plan

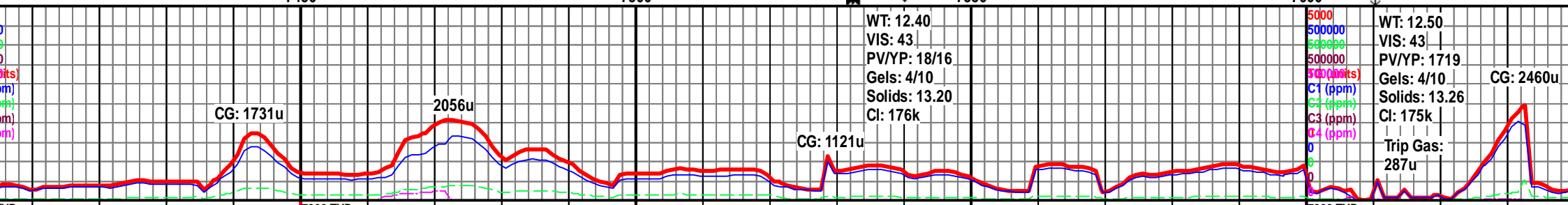
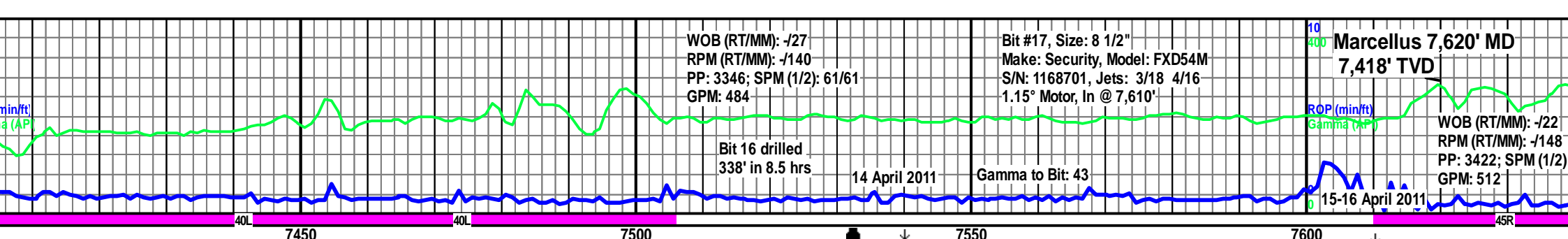




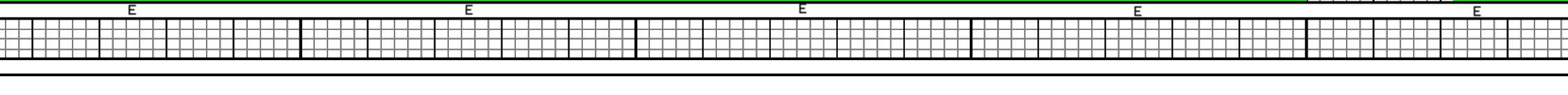
Sonyea 6,716' MD -
6,649' TVD

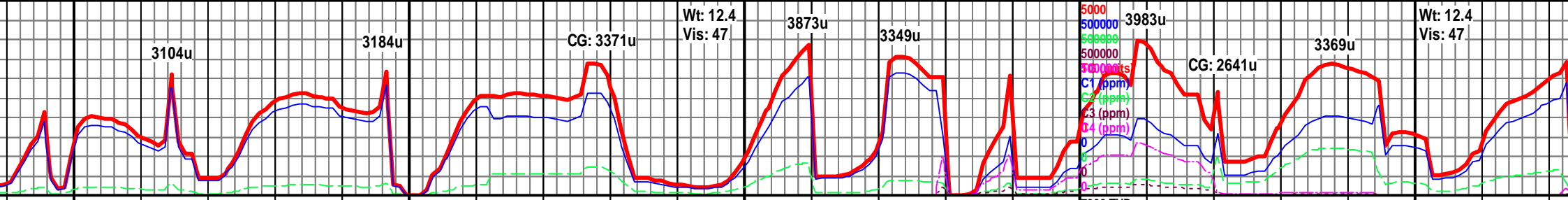
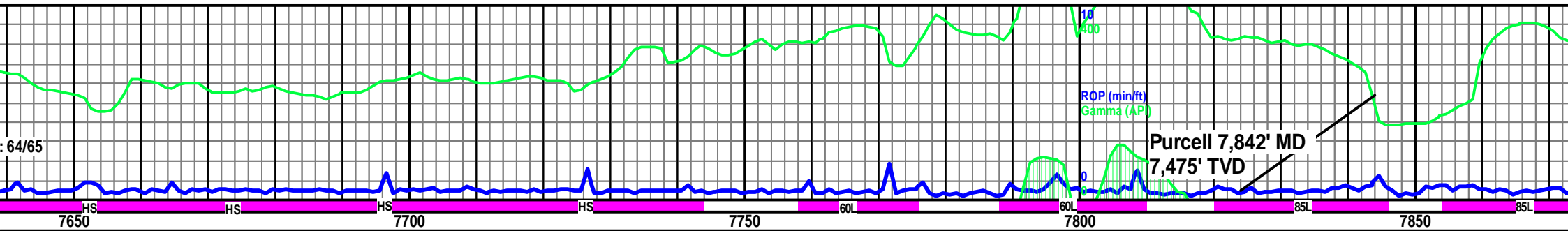






<p>7440-7470 SH: dk gy, sft, sb blk, rthy tex, sl calc, tr dsem pyr, pos rthy por</p>		<p>7470-7500 SH: dk gy, sft, sb blk, rthy tex, sl calc, tr dsem pyr, pos rthy por</p>		<p>7500-7530 SH: dk gy, sft, sb blk, rthy tex, sl calc, tr dsem & nodr pyr, pos rthy por</p>		<p>7530-7560 SH: dk gy, sft, sb blk, rthy tex, sl calc, tr dsem & nodr pyr, pos rthy por</p>		<p>7560-7590 SH: dk gy, sft, sb blk, rthy tex, sl calc, tr dsem & nodr pyr, pos rthy por</p>		<p>7590-7620 SH: dk gy-blk, sft, sb blk-blk, rthy tex, sl calc, tr dsem & nodr pyr, pos rthy por</p>	
<p>7400 Inc: 39.70 Azm: 2.00 TVD: 7289.12 VS: 21.66</p>	<p>7431 Inc: 43.40 Azm: 357.80 TVD: 7312.32 VS: 41.84</p>	<p>7463 Inc: 47.00 Azm: 353.90 TVD: 7334.87 VS: 64.37</p>	<p>7494 Inc: 51.00 Azm: 351.10 TVD: 7355.20 VS: 87.71</p>	<p>7525 Inc: 55.30 Azm: 348.00 TVD: 7373.79 VS: 112.50</p>	<p>7557 Inc: 59.80 Azm: 345.40 TVD: 7390.96 VS: 139.47</p>	<p>7588 Inc: 64.50 Azm: 343.70 TVD: 7405.44 VS: 166.79</p>	<p>7620 Inc: 67.80 Azm: 343.90 TVD: 7418.38 VS: 195.94</p>				



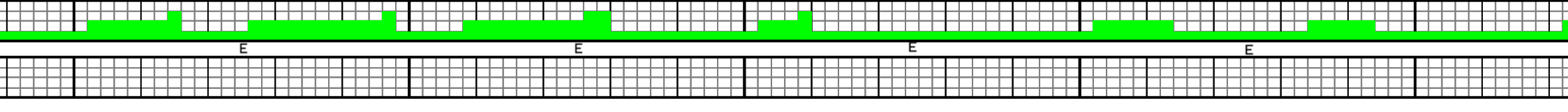


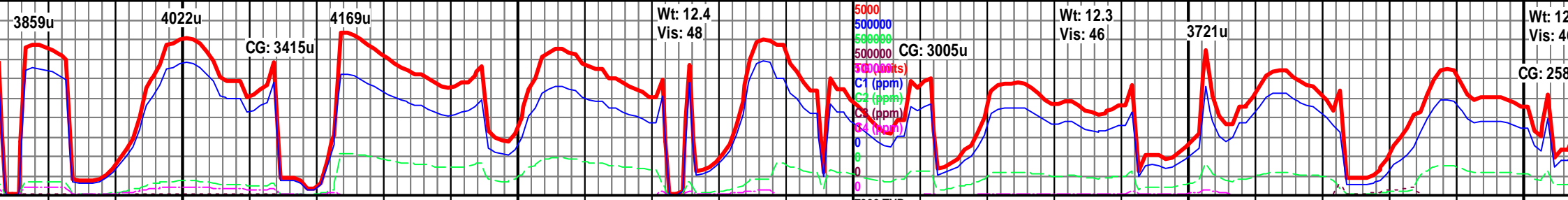
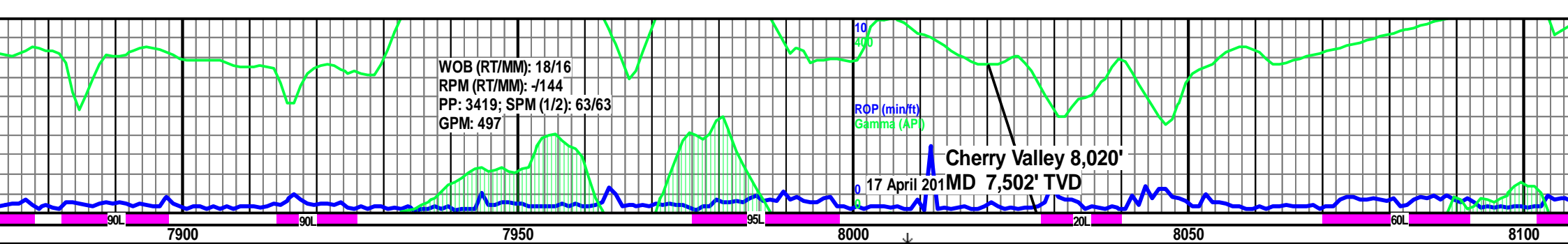
Visible Gas Escaping from Sample

7710-7740 SH: blk, tr dk gy, sft frm, sb blkly-blky, rthy tex, v calc, tr dsem & nodr pyr, pos rthy por	7740-7770 SH: blk, tr dk gy, sft frm, sb blkly-blky, rthy tex, v calc, tr dsem & nodr pyr, pos rthy por	7770-7800 SH: blk, tr dk gy, sft frm, sb blkly-blky, rthy tex, v calc, tr dsem & nodr pyr, pos rthy por	7800-7830 SH: blk, tr dk gy, sft frm, sb blkly-blky, rthy tex, v calc, tr dsem & nodr pyr, pos rthy por	7830-7860 SH: blk, tr dk gy, sft frm, sb blkly-blky, rthy tex, v calc, tr dsem & nodr pyr, pos rthy por; tr LS: wkst, med gy, tr brn, micxn, fri frm, rthy tex, no vis por	7860-7890 SH: blk, tr dk gy, sft frm, sb blkly-blky, rthy tex, v calc, tr dsem & nodr pyr, pos rthy por
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7650-7680 SH: dk gy-blk, sft, sb blkly-blky, rthy tex, sl calc, tr dsem & nodr pyr, pos rthy por	7680-7710 SH: blk, tr dk gy, sft frm, sb blkly-blky, rthy tex, v calc, tr dsem pyr, pos rthy por									
MD: 7651 Inc: 70.10 Az: 344.20 TVD: 7429.51 VS: 224.77	MD: 7682 Inc: 72.50 Az: 344.80 TVD: 7439.45 VS: 254.04	MD: 7714 Inc: 75.20 Az: 345.35 TVD: 7448.35 VS: 284.72	MD: 7745 Inc: 77.10 Az: 345.90 TVD: 7455.77 VS: 314.78	MD: 7777 Inc: 78.20 Az: 345.50 TVD: 7462.61 VS: 345.99	MD: 7808 Inc: 78.90 Az: 344.00 TVD: 7468.77 VS: 376.29	MD: 7839 Inc: 79.60 Az: 342.60 TVD: 7474.55 VS: 406.60				



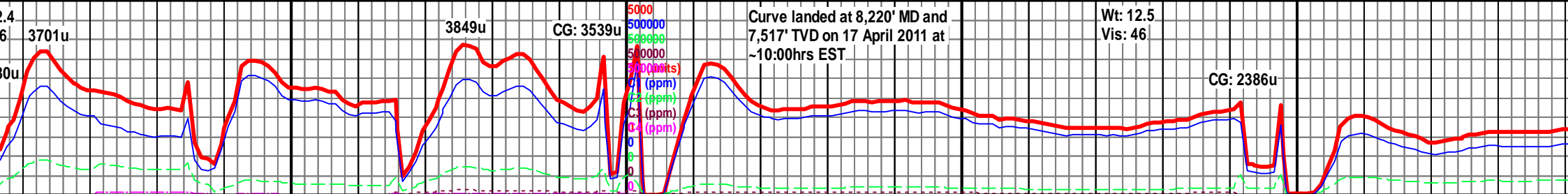
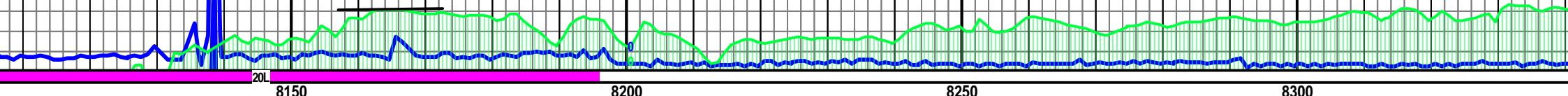


Sealing from Sample		Visible Gas Escaping from Sample			7300 TVD Sub Sea (-5858)		Visible Gas Escaping from Sample		
<p>dk, tr dk gy, sft-frm, sb x, v calc, tr dsem & rhy por</p>	<p>7890-7920 SH: blk, sft, sb blkly-blky, rthy tex, sl calc, tr dsem pyr, pos rthy por</p>	<p>7920-7950 SH: blk, sft, sb blkly-blky, rthy tex, sl calc, tr dsem pyr, pos rthy por</p>	<p>7950-7980 SH: blk, sft-frm, sb blkly-blky, rthy tex, sl calc, tr dsem & nodr pyr, tr free cal, pos cal fl frac, pos rthy por</p>	<p>7980-8010 SH: blk, sft-frm, sb blkly-blky, rthy tex, sl calc, tr dsem & nodr pyr, pos rthy por</p>	<p>8010-8040 SH: blk, sft-frm, sb blkly-blky, rthy tex, sl calc, tr dsem & nodr pyr, pos rthy por</p>	<p>8040-8070 SH: blk, sft-frm, sb blkly-blky, rthy tex, sl calc, tr dsem & nodr pyr, pos rthy por; tr LS: wkst, med gy, tr brn, micldn, fri-frm, rthy tex</p>	<p>8070-8100 SH: blk, sft-frm, sb blkly-blky, rthy tex, sl calc, tr dsem & nodr pyr, pos rthy por</p>	<p>8100-8130 SH: blk, sft-frm, sb blkly-blky, rthy tex, sl calc, tr dsem & nodr pyr, pos rthy por</p>	

MD: 7871 Inc: 80.10 Azm: 340.10 TVD: 7480.19 VS: 437.82	MD: 7902 Inc: 81.20 Azm: 339.30 TVD: 7485.23 VS: 468.02	MD: 7933 Inc: 81.80 Azm: 339.20 TVD: 7489.81 VS: 498.24	MD: 7964 Inc: 82.10 Azm: 338.60 TVD: 7494.15 VS: 528.47	MD: 7995 Inc: 81.80 Azm: 337.20 TVD: 7498.49 VS: 558.60	MD: 8027 Inc: 82.00 Azm: 337.90 TVD: 7503.00 VS: 589.67	MD: 8058 Inc: 82.00 Azm: 337.30 TVD: 7507.07 VS: 619.80	MD: 8089 Inc: 83.60 Azm: 336.90 TVD: 7510.72 VS: 649.94
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Top of Target Zone
8,172' MD 7,516'
TVD

ROP (min/ft)
Gamma (AP)



Curve landed at 8,220' MD and
7,517' TVD on 17 April 2011 at
~10:00hrs EST

Wt: 12.5
Vis: 46

Note: TVD
Scale Change

Visible Gas Escaping from Sample

8100-8130 SH: blk, sft-frm, sb rthy tex, sl calc, tr dsem & nodr pyr, pos rthy por
8130-8160 SH: blk, sft-frm, sb blk-ly-bkly, rthy tex, sl calc, tr dsem & nodr pyr, pos rthy por
8160-8190 SH: blk, sft-frm, sb blk-ly-bkly, rthy tex, sl calc, tr dsem & nodr pyr, pos rthy por
8190-8220 SH: blk, sft-frm, sb blk-ly-bkly, rthy tex, sl calc, tr dsem & nodr pyr, tr free cal, pos cal fl frac, pos rthy por
8220-8250 SH: blk, sft-frm, sb blk-ly-bkly, rthy tex, sl calc, tr dsem & nodr pyr, tr free cal, pos cal fl frac, pos rthy por
8250-8280 SH: blk, sft-frm, sb blk-ly-bkly, rthy tex, sl calc, tr dsem & nodr pyr, tr free cal, pos cal fl frac, pos rthy por
8280-8310 SH: blk, sft-frm, sb blk-ly-bkly, rthy tex, sl calc, tr dsem & nodr pyr, tr free cal, pos cal fl frac, pos rthy por
8310-8340 SH: blk, sft-frm, sb blk-ly-bkly, rthy tex, sl calc, tr dsem & nodr pyr, pos rthy por

Scale Change
7500
(-6058)

MD: 8121
Inc: 85.20
Azm: 335.90
TVD: 7513.84
VS: 681.03

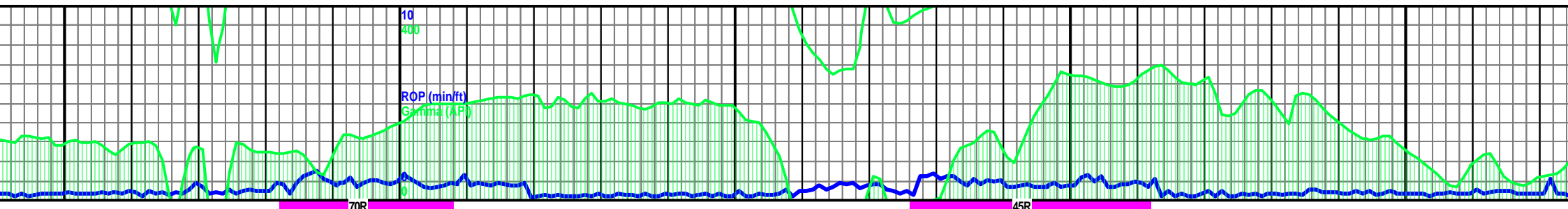
MD: 8152
Inc: 87.60
Azm: 335.00
TVD: 7515.79
VS: 711.12

MD: 8246
Inc: 90.90
Azm: 335.40
TVD: 7517.02
VS: 802.43

MD: 8339
Inc: 89.70
Azm: 334.
TVD: 7516
VS: 892.6

7550
(-6108)





8350 8400 8450 8500 8550

Wt: 12.5
Vis: 46

Wt: 12.5
Vis: 46

Wt:
Vis:

CG: 2175u

CG: 2557u

CG: 1886

5000
50000
500000
5000000
ROP (min/ft)
C1 (ppm)
C2 (ppm)
C3 (ppm)
C4 (ppm)
C5 (ppm)
C6 (ppm)
C7 (ppm)
C8 (ppm)
C9 (ppm)
C10 (ppm)

Visible Gas Escaping from Sample

Visible Gas Escaping from Sample

Visible Gas Escap

7450 TVD
Sub Sea (-6008)

8340-8370 SH: blk, sft frm, sb
blk-y-bkly, rthy tex, sl calc, tr dsem &
nodr pyr, tr free cal, pos cal fl fracs,
pos rthy por

8370-8400 SH: blk, sft frm, blk-y-sb
blk-y, rthy tex, tr dsem & nodr pyr, pos
rthy por

8400-8430 SH: blk, sft frm, sb blk-y-bkly,
rthy tex, sl calc, tr dsem & nodr pyr,
pos rthy por

8430-8460 SH: blk, sft frm, sb
blk-y-bkly, rthy tex, sl calc, tr dsem &
nodr pyr, pos rthy por

8460-8490 SH: blk, sft frm, fri, sb
blk-y-bkly, rthy tex, sl calc, tr dsem &
nodr pyr, pos rthy por

8490-8520 SH: blk, sft frm, sb
blk-y-bkly, rthy tex, sl calc, tr dsem &
nodr pyr, pos rthy por

8520-8550 SH: blk, sft frm, sb blk-y, rthy
tex, sl calc, tr dsem & nodr pyr, pos
rthy por

8550-8580 SH: blk, sft frm, tr hd,
blk-y, tr plty, rthy tex, sl calc, tr ds
nodr pyr, pos rthy por

7500
(-6058)

7550
(-6108)

MD: 8433
Inc: 89.60
Az: 337.20
TVD: 7517.10
VS: 984.17

MD: 8527
Inc: 91.20
Az: 339.00
TVD: 7516.45
VS: 1076.50

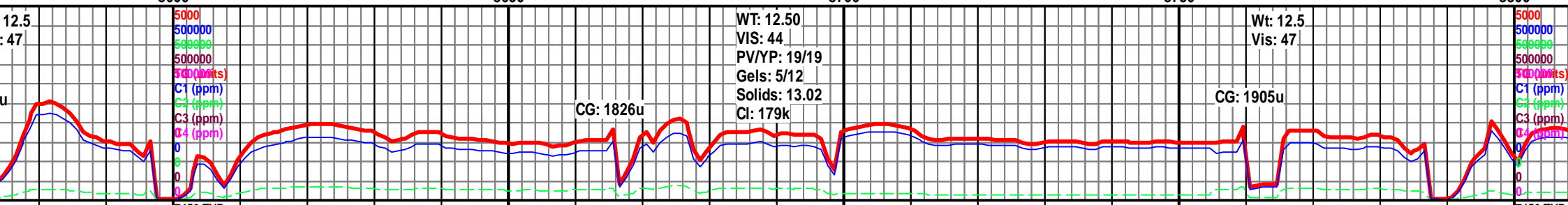
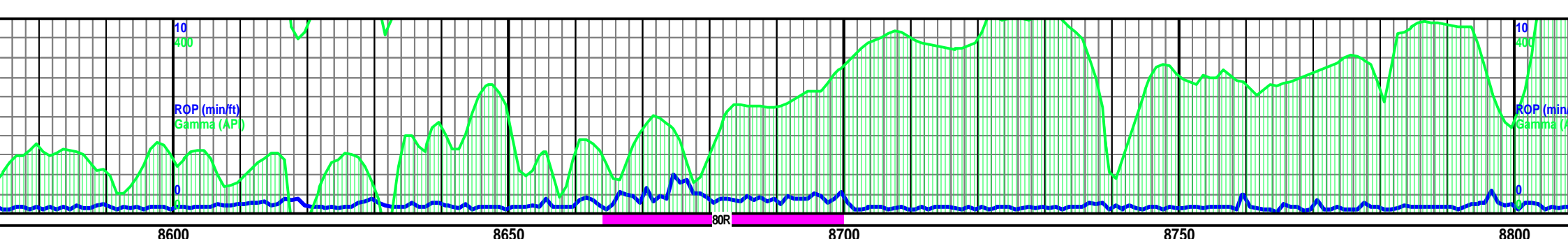
30
5.53
4

E

E

E

E



7450 TVD Sub Sea (-6008)

Visible Gas Escaping from Sample

7450 TVD Sub Sea (-6008)

8580-8610 SH: blk, sft-frm, sb blk-y-bkly, tr pity, rthy tex, sl calc, tr dsem & nodr pyr, pos rthy por

8610-8640 SH: blk, sft-frm, sb blk-y-bkly, rthy tex, sl calc, tr dsem & nodr pyr, pos rthy por

8640-8670 SH: blk, sft-frm, sb blk-y-bkly, rthy tex, sl calc, tr dsem & nodr pyr, pos rthy por

8670-8700 SH: blk, sft-frm, sb blk-y-bkly, rthy tex, sl calc, tr dsem & nodr pyr, pos rthy por

8700-8730 SH: blk, sft-frm, sb blk-y-bkly, rthy tex, sl calc, tr dsem & nodr pyr, pos rthy por

8730-8760 SH: blk, sft-frm, sb blk-y-bkly, rthy tex, sl calc, tr dsem & nodr pyr, pos rthy por

8760-8790 SH: blk, sft-frm, sb blk-y-bkly, rthy tex, sl calc, tr dsem & nodr pyr, pos rthy por

8790-8820 SH: blk, sft-frm, sb blk-y-bkly, rthy tex, sl calc, tr dsem & nodr pyr, pos rthy por

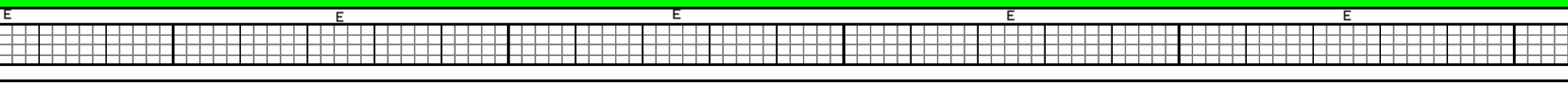
7500 (-6058)

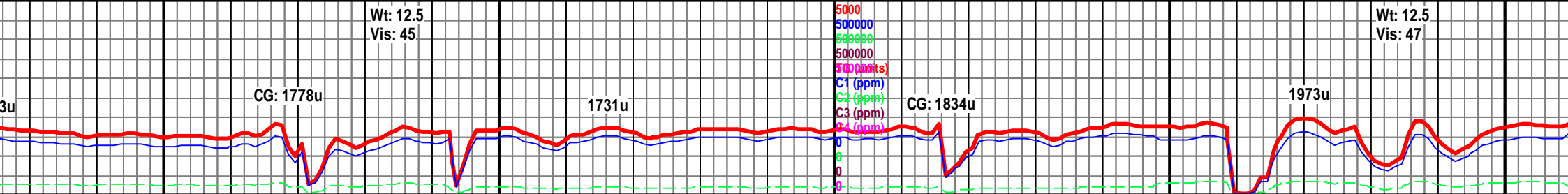
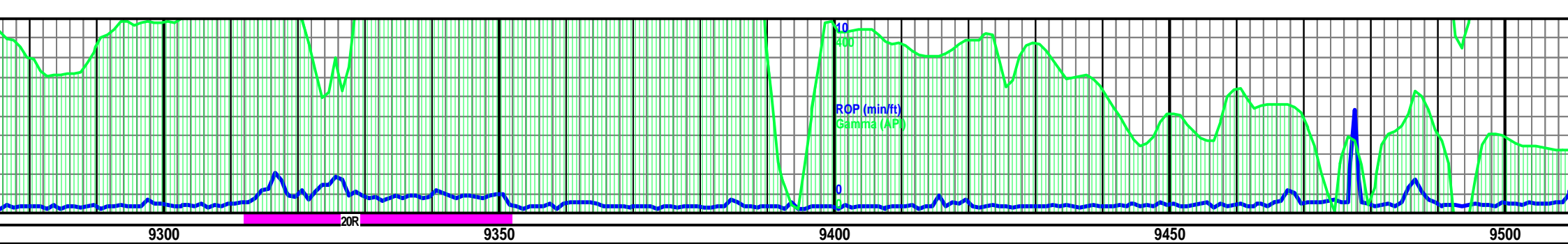
7550 (-6108)

MD: 8621
Inc: 90.50
Azm: 338.60
TVD: 7515.05
VS: 1169.04

MD: 8716
Inc: 90.30
Azm: 340.10
TVD: 7514.39
VS: 1262.72

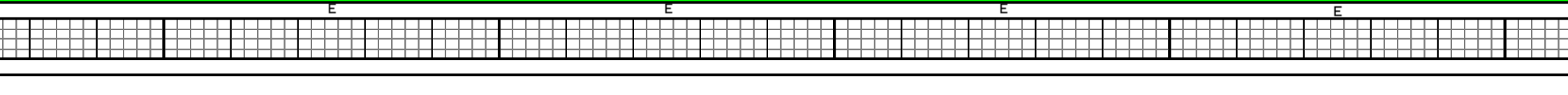
7550 (-6108)

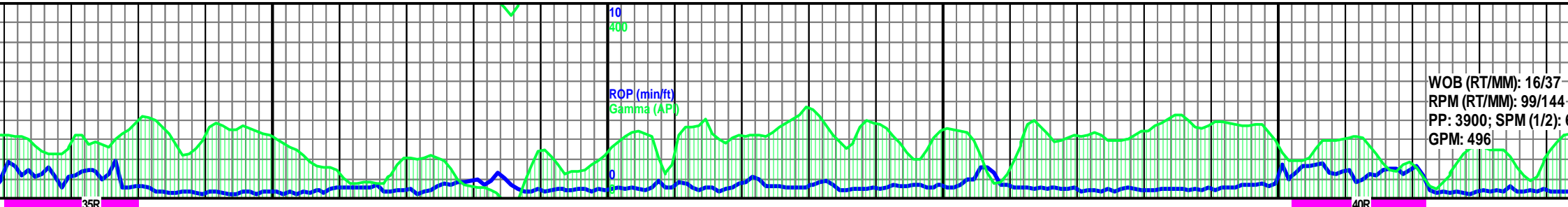




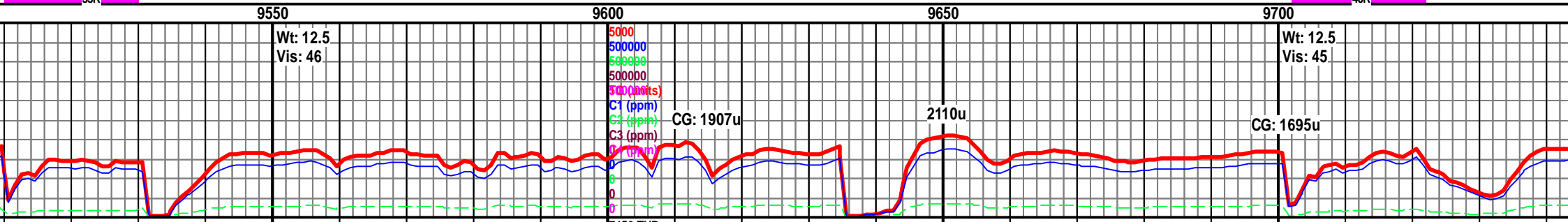
ng from Sample	At 9,320' Sunburst Consulting Geologist again recommends bringing inclination to 92.0 Degrees to climb in section	Visible Gas Escaping from Sample	7450 TVD Sub Sea (-6008)	Visible Gas Escaping from Sample
9300 SH: blk, sft, sb blk-y-bkly, rthy calc, tr dsem & nodr pyr, pos rthy tr LS: wkst, med gy, tr brn, micxn, rthy tex	9300-9330 SH: blk, sft, sb blk-y-bkly, rthy tex, v calc, tr dsem & nodr pyr, pos rthy por; tr LS: wkst, med gy, tr brn, micxn, fri-frm, rthy tex	9330-9360 SH: dk gy-bkly, sft, sb blk-y-bkly, rthy tex, v calc, tr dsem & nodr pyr, pos rthy por	9360-9390 SH: dk gy-bkly, sft, sb blk-y-bkly, rthy tex, v calc, tr dsem & nodr pyr, pos rthy por	9390-9420 SH: dk gy-bkly, sft, sb blk-y-bkly, rthy tex, v calc, tr dsem & nodr pyr, pos rthy por

MD: 9281 Inc: 89.50 Azm: 341.30 TVD: 7504.38 VS: 1822.41		MD: 9375 Inc: 92.00 Azm: 341.20 TVD: 7503.15 VS: 1915.56	7550 (-6108)	MD: 9469 Inc: 91.30 Azm: 340.10 TVD: 7500.45 VS: 2008.55
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WOB (RT/MM): 16/37
RPM (RT/MM): 99/144
PP: 3900; SPM (1/2):
GPM: 496



9510-9540 SH: blk, sft, sb blkly-blky, rthy y tex, sl calc, tr dsem & nodr pyr, pos rthy por	9540-9570 SH: blk, sft, sb blkly-blky, rthy tex, sl calc, tr dsem & nodr pyr, pos rthy por	9570-9600 SH: blk, sft, sb blkly-blky, rthy tex, sl calc, tr dsem & nodr pyr, pos rthy por	9600-9630 SH: blk, sft, sb blkly-blky, rthy tex, sl calc, tr dsem & nodr pyr, pos rthy por	9630-9660 SH: blk, sft, sb blkly-blky, rthy tex, sl calc, tr dsem & nodr pyr, pos rthy por	9660-9690 SH: blk, sft, sb blkly-blky, rthy tex, sl calc, tr dsem & nodr pyr, pos rthy por	9690-9720 SH: blk, sft, sb blkly-blky, rthy tex, sl calc, tr dsem & nodr pyr, pos rthy por	9720-9750 SH: blk, sft, sb blkly-blky, rthy tex, sl calc, tr dsem & nodr pyr, pos rthy por
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Wt: 12.5
Vis: 46

Wt: 12.5
Vis: 45

Visible Gas Escaping from Sample

Visible Gas Escaping from Sample

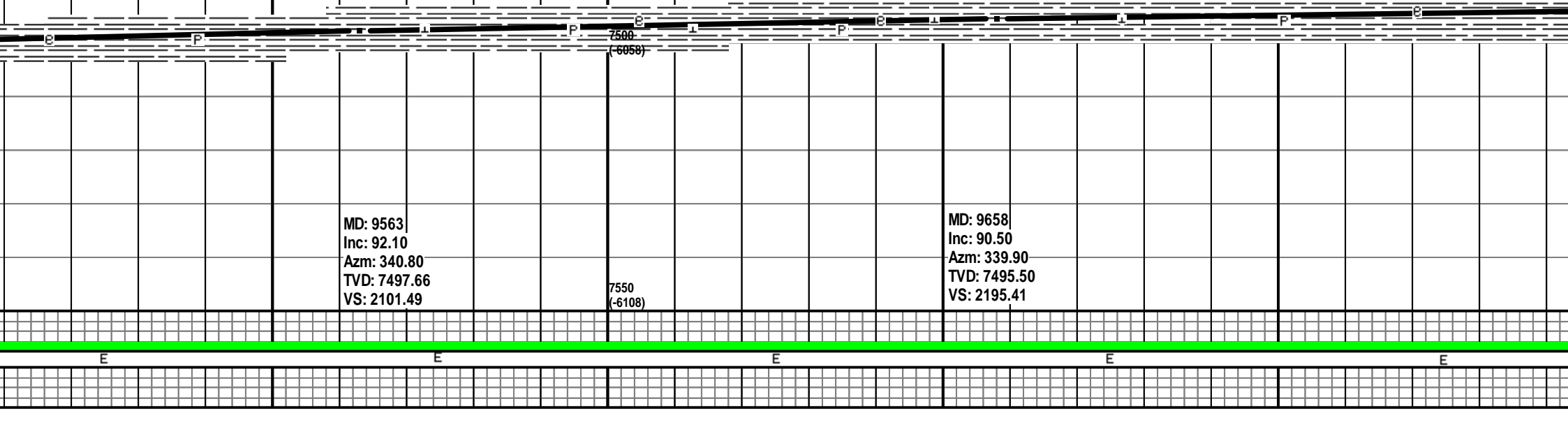
5000
500000
500000
500000
300 (units)
C1 (ppm)
C2 (ppm)
C3 (ppm)
0 (ppm)
0
0

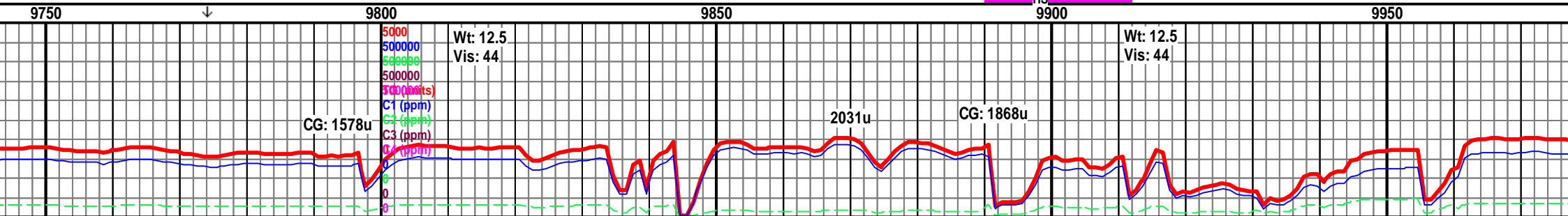
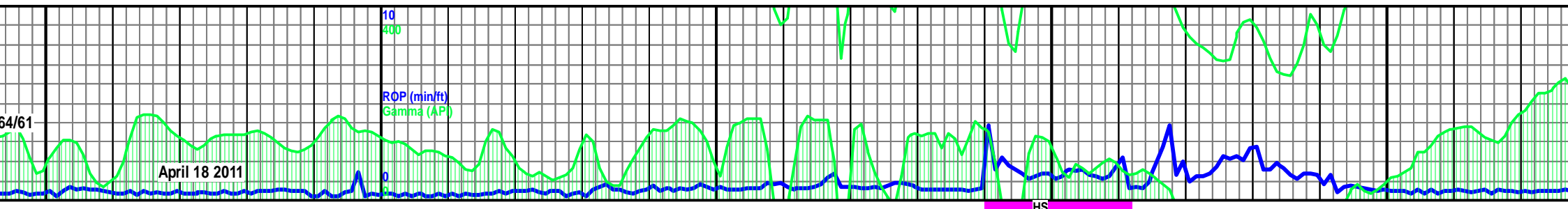
7450 TVD
Sub Sea (-6008)

7550
(-6108)

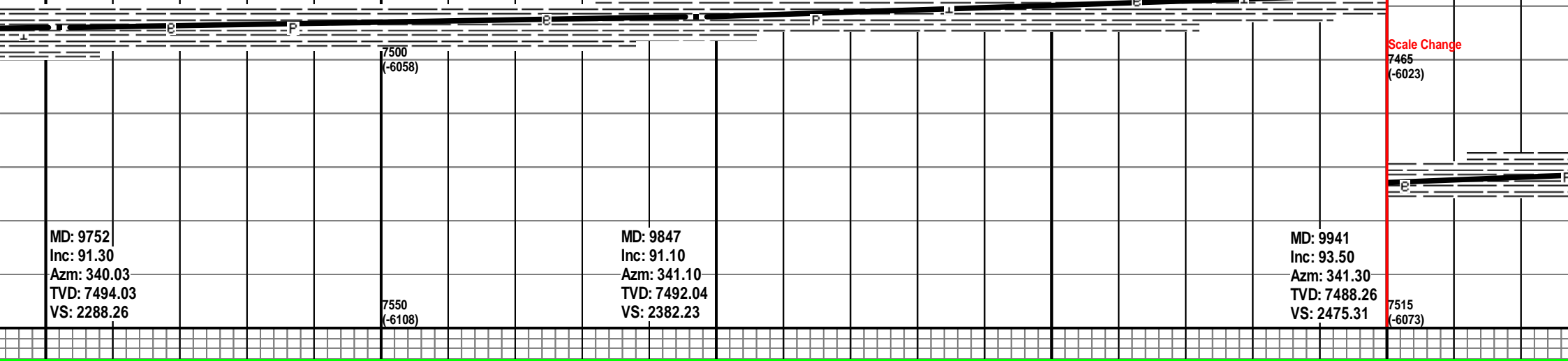
MD: 9563
Inc: 92.10
Azm: 340.80
TVD: 7497.66
VS: 2101.49

MD: 9658
Inc: 90.50
Azm: 339.90
TVD: 7495.50
VS: 2195.41





Visible Gas Escaping from Sample		7450 TVD Sub Sea (-6008)	Visible Gas Escaping from Sample		Note: TVD Scale Change	7415 TVD Sub Sea (-5973)	Visible Gas Escap	
9750-9780 SH: blk, sft, sb blkly-blky, rthy tex, sl calc, tr dsem & nodr pyr, pos rthy por	9780-9810 SH: blk, sft, sb blkly-blky, rthy tex, sl calc, tr dsem & nodr pyr, pos rthy por		9810-9840 SH: blk, sft, sb blkly-blky, rthy tex, tr dsem & nodr pyr, pos rthy por	9840-9870 SH: blk, sft, sb blkly-blky, rthy tex, sl calc, tr dsem & nodr pyr, pos rthy por	9870-9900 SH: blk, sft, sb blkly-blky, rthy tex, sl calc, tr dsem pyr, pos rthy por	9900-9930 SH: blk, sft, sb blkly-blky, rthy tex, sl calc, tr dsem & nodr pyr, pos rthy por	9930-9960 SH: blk, sft, sb blkly-blky, rthy tex, sl calc, tr dsem & nodr pyr, pos rthy por	9960-9990 SH: blk, sft, sb blkly-blky, rthy tex, tr dsem & nodr pyr, pos rthy por

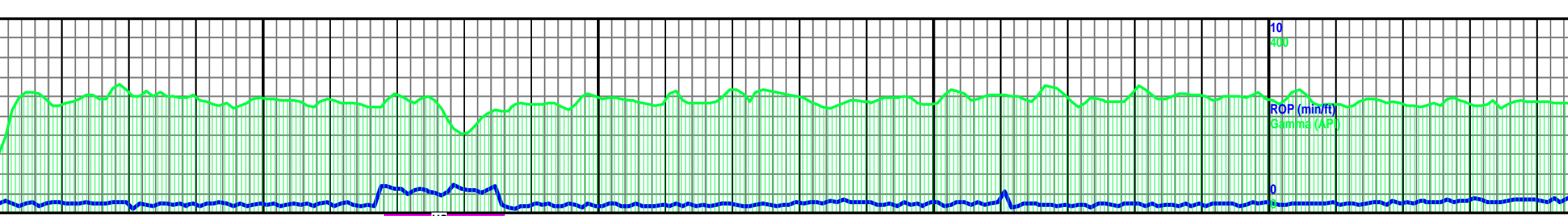


MD: 9752
Inc: 91.30
Azm: 340.03
TVD: 7494.03
VS: 2288.26

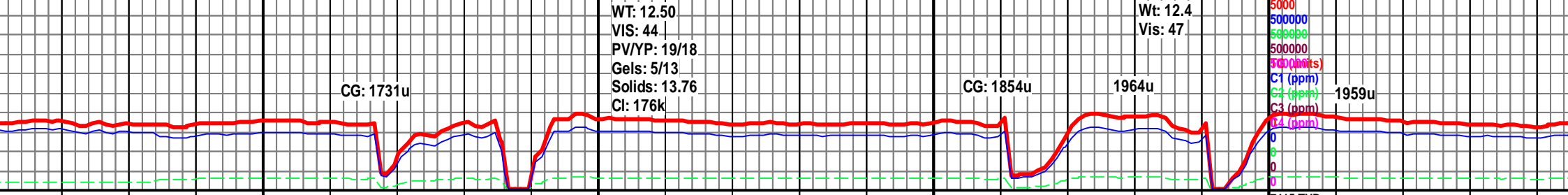
MD: 9847
Inc: 91.10
Azm: 341.10
TVD: 7492.04
VS: 2382.23

MD: 9941
Inc: 93.50
Azm: 341.30
TVD: 7488.26
VS: 2475.31

7515
(-6073)

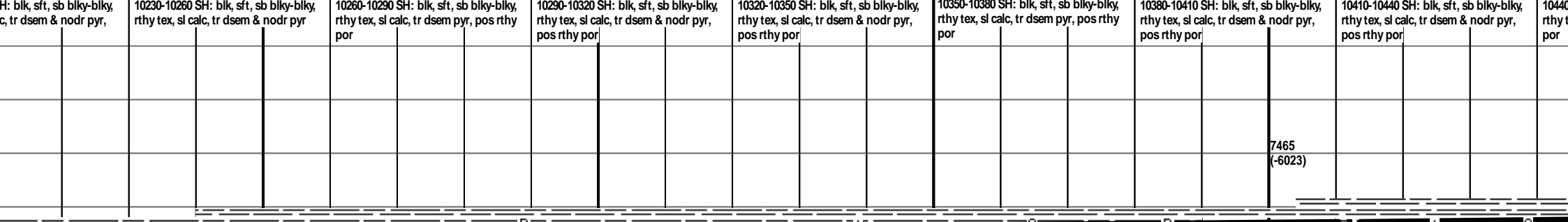


10250 10300 10350 10400

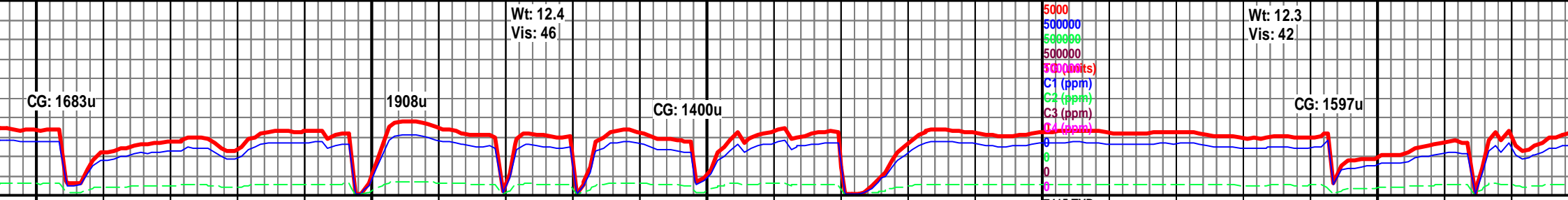
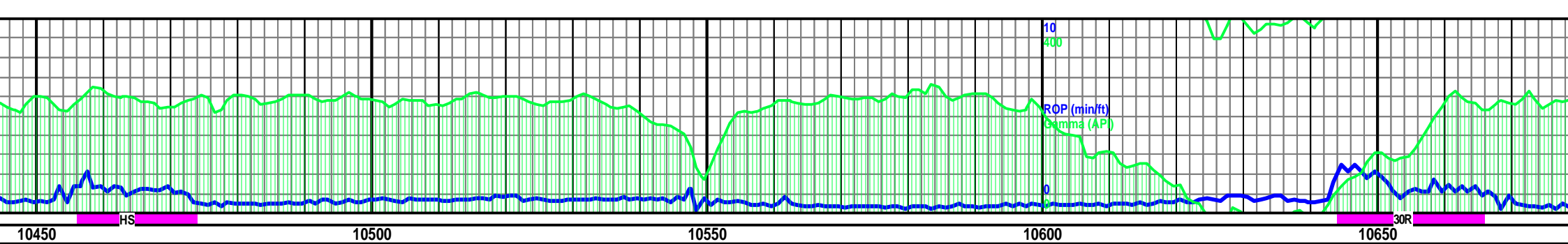


Visible Gas Escaping from Sample

10230-10260 SH: blk, sft, sb blkly-blky, rthy tex, sl calc, tr dsem & nodr pyr
 10260-10290 SH: blk, sft, sb blkly-blky, rthy tex, sl calc, tr dsem pyr, pos rthy por
 10290-10320 SH: blk, sft, sb blkly-blky, rthy tex, sl calc, tr dsem & nodr pyr, pos rthy por
 10320-10350 SH: blk, sft, sb blkly-blky, rthy tex, sl calc, tr dsem & nodr pyr, pos rthy por
 10350-10380 SH: blk, sft, sb blkly-blky, rthy tex, sl calc, tr dsem pyr, pos rthy por
 10380-10410 SH: blk, sft, sb blkly-blky, rthy tex, sl calc, tr dsem & nodr pyr, pos rthy por
 10410-10440 SH: blk, sft, sb blkly-blky, rthy tex, sl calc, tr dsem & nodr pyr, pos rthy por

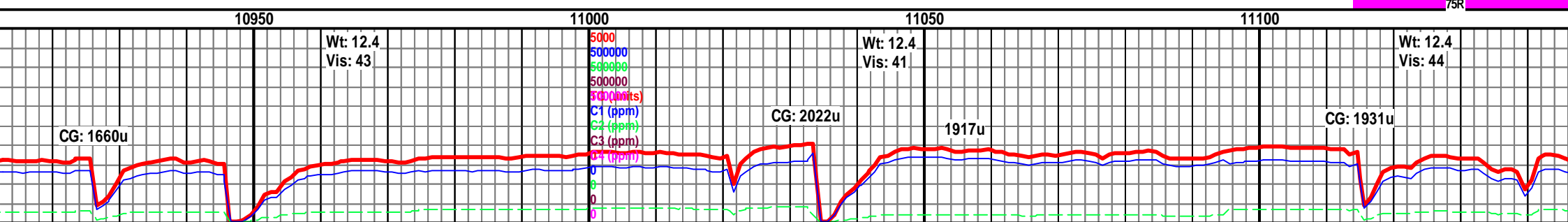
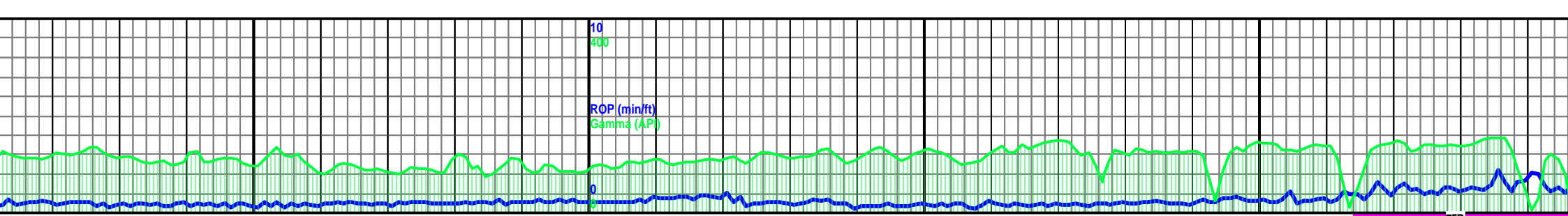


MD: 10224 Inc: 90.20 Azm: 340.10 TVD: 7479.97 VS: 2755.28	MD: 10318 Inc: 91.20 Azm: 339.80 TVD: 7478.82 VS: 2848.13	MD: 10412 Inc: 90.20 Azm: 339.70 TVD: 7477.67 VS: 2940.93
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Visible Gas Escaping from Sample		Visible Gas Escaping from Sample		Visible Gas Escaping from Sample	
10470-10470 SH: blk, sft, sb blk, rthy tex, sl calc, tr dsem pyr, pos rthy	10470-10500 SH: blk, sft, sb blk, rthy tex, sl calc, tr dsem & nodr pyr	10500-10530 SH: blk, sft, sb blk, rthy tex, sl calc, tr dsem & nodr pyr, pos rthy por	10530-10560 SH: blk, sft, sb blk, rthy tex, calc, tr dsem & nodr pyr, pos rthy por	10560-10590 SH: blk, sft, sb blk, rthy tex, calc, tr dsem & nodr pyr, pos rthy por	10590-10620 SH: blk, sft, sb blk, rthy tex, sl calc, tr dsem pyr, pos rthy por

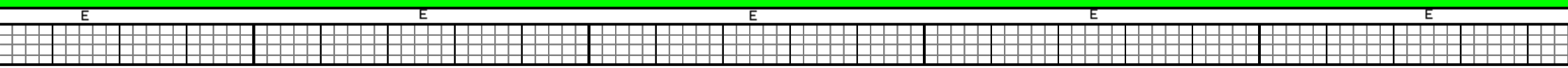
MD: 10506 Inc: 91.10 Azm: 339.00 TVD: 7476.61 VS: 3033.62			MD: 10600 Inc: 89.80 Azm: 337.60 TVD: 7475.87 VS: 3126.02		
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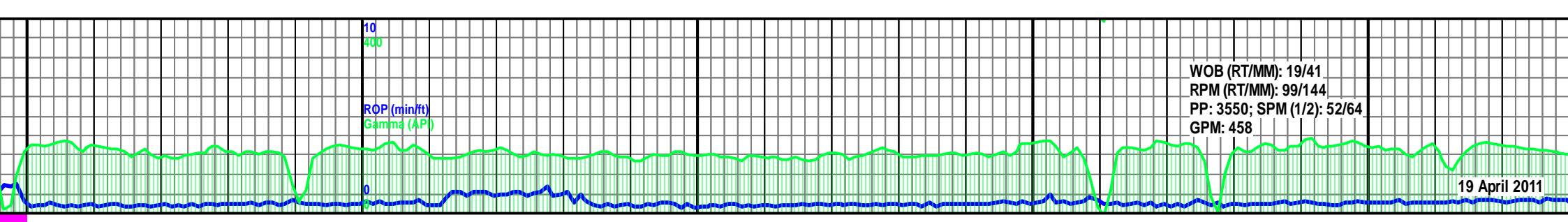


Visible Gas Escaping from Sample		Visible Gas Escaping from Sample	
Wt: 12.4 Vis: 43	Wt: 12.4 Vis: 41	Wt: 12.4 Vis: 44	

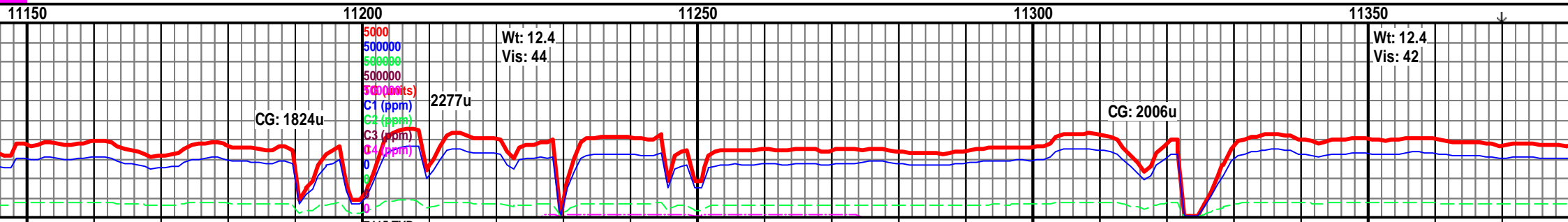


10920-10950 SH: blk, sft, sb blk, rthy tex, v calc, tr dsem & nodr pyr, pos rthy por	10950-10980 SH: blk, sft, blk, rthy tex, sl calc, tr dsem & nodr pyr, pos rthy por	10980-11010 SH: blk, sft, blk, rthy tex, sl calc, tr dsem & nodr pyr, pos rthy por	11010-11040 SH: blk, sft, blk, rthy tex, sl calc, tr dsem & nodr pyr, pos rthy por	11040-11070 SH: blk, sft, blk, rthy tex, sl calc, tr dsem & nodr pyr, pos rthy por	11070-11100 SH: blk, sft, blk, rthy tex, sl calc, tr dsem & nodr pyr, pos rthy por	11100-11130 SH: blk, sft, blk, rthy tex, sl calc, tr dsem & nodr pyr, pos rthy por	11130-11160 SH: blk, sft, blk, rthy tex, sl calc, tr dsem & nodr pyr, pos rthy por
MD: 10977 Inc: 90.40 Azm: 338.60 TVD: 7467.48 VS: 3496.90		MD: 11071 Inc: 89.60 Azm: 338.30 TVD: 7467.48 VS: 3589.34					



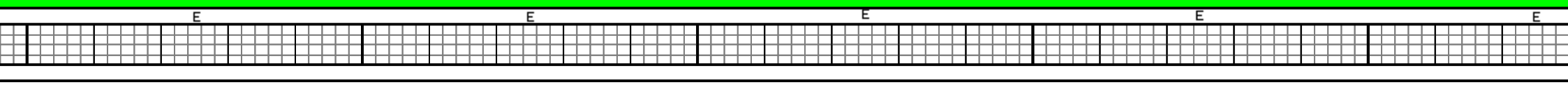


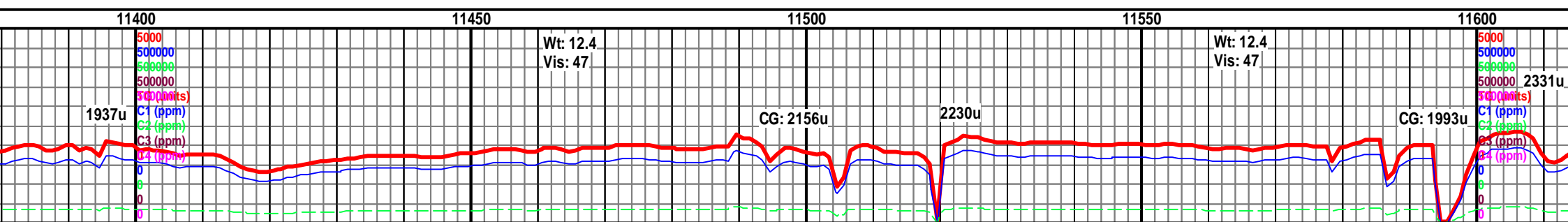
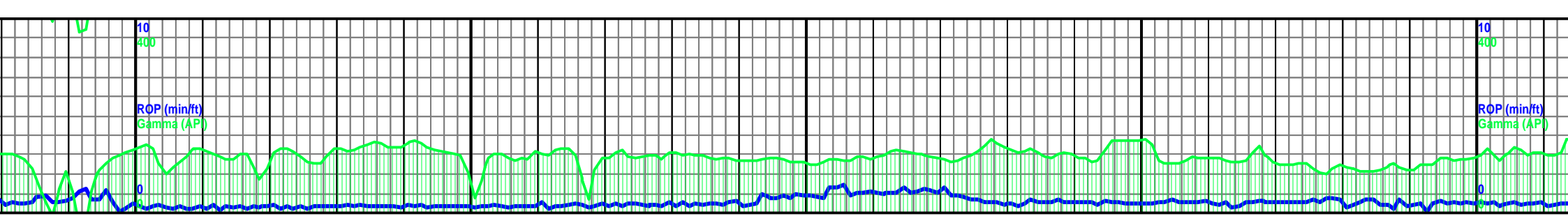
WOB (RT/MM): 19/41
RPM (RT/MM): 99/144
PP: 3550; SPM (1/2): 52/64
GPM: 458



Visible Gas Escaping from Sample		7415 TVD Sub Sea (-5973)		Visible Gas Escaping from Sample		Visible Gas Escaping from Sample	
sft, blk, rthy tex, dr pyr, pos rthy	11160-11190 SH: blk, sft, blk, rthy tex, sl calc, tr dsem & nodr pyr, pos rthy por	11190-11220 SH: blk, sft, blk, sb blk, rthy tex, sl calc, tr dsem & nodr pyr, pos rthy por	11220-11250 SH: blk, sft, blk, sb blk, rthy tex, sl calc, tr dsem & nodr pyr, pos rthy por	11250-11280 SH: blk, sft, blk, rthy tex, sl calc, tr dsem & nodr pyr, pos rthy por	11280-11310 SH: blk, sft, blk, rthy tex, sl calc, tr dsem & nodr pyr, pos rthy por	11310-11340 SH: blk, sft, blk, rthy tex, sl calc, tr dsem & nodr pyr, pos rthy por	11340-11370 SH: blk, sft, blk, rthy tex, sl calc, tr dsem & nodr pyr, pos rthy por

MD: 11166 Inc: 91.30 Azm: 342.10 TVD: 7466.73 VS: 3683.23		7515 (-6073)		MD: 11260 Inc: 90.70 Azm: 341.60 TVD: 7465.09 VS: 3776.50		MD: 11354 Inc: 90.60 Azm: 342.30 TVD: 7464.02 VS: 3869.81	
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7415 TVD Sub Sea (-5973)	Visible Gas Escaping from Sample				Visible Gas Escaping from Sample				7415 TVD Sub Sea (-5973)
SH: blk, sft, blk-y-sb blk-y, sl calc, tr dsem pyr, pos rthy	11400-11430 SH: blk, sft, blk-y-sb blk-y, rthy tex, sl calc, tr dsem pyr, pos rthy por	11430-11460 SH: blk, sft, blk-y, rthy tex, sl calc, tr dsem & nodr pyr, pos rthy por	11460-11490 SH: blk, sft, blk-y-sb blk-y, rthy tex, sl calc, tr dsem & nodr pyr, pos rthy por	11490-11520 SH: blk, sft, blk-y-sb blk-y, rthy tex, sl calc, tr dsem & nodr pyr, pos rthy por	11520-11550 SH: blk, sft, blk-y-sb blk-y, rthy tex, sl calc, tr dsem & nodr pyr, pos rthy por	11550-11580 SH: blk, sft, blk-y-sb blk-y, rthy tex, sl calc, tr dsem & nodr pyr, pos rthy por	11580-11610 SH: blk, sft, blk-y-sb blk-y, rthy tex, sl calc, tr dsem & nodr pyr, pos rthy por	11610-11640 SH: blk, sft, blk-y-sb blk-y, rthy tex, sl calc, tr dsem & nodr pyr, pos rthy por	

7515 (-6073)	MD: 11449 Inc: 91.70 Az: 343.50 TVD: 7464.12 VS: 3964.27	MD: 11543 Inc: 90.90 Az: 342.90 TVD: 7459.99 VS: 4057.78	7515 (-6073)
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