SUNBURST CONSULTING
A GEOLOGY SERVICE

P.O. Box 51297, Billings, MT 59105
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(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:	**James Taylor #511506**
Location:	**Rosemont 7.5' Quad; Flemington District; Taylor County, WV**
License Number:	**API#: 47-091-01224** **Region: Appalachian Basin**
Spud Date:	**07 June 2011** **Drilling Completed: 22 June 2011**
Surface Coordinates:	**Latitude: 39.294472** **Longitude: 80.192531**
Bottom Hole Coordinates:	**3,750.48' North and 1,768.84' West of surface location**
Ground Elevation (ft):	**1470** **K.B. Elevation (ft): 1485**
Logged Interval (ft):	**6,620' To: 11,457' Total Depth (ft): 11,457'**
Formation:	**Sonyea thru Marcellus**
Type of Drilling Fluid:	**Water Based Mud**

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

OPERATOR

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

GEOLOGISTS

Name: Isaah Land, Josh Brewer, Andrew Reeder
Company: Sunburst Consulting, Inc.
Address: P.O. Box 51297,Billings, MT 59105
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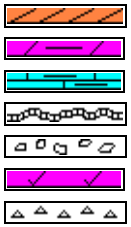
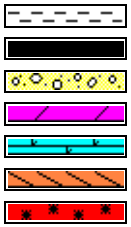
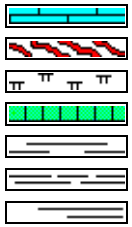
ROCK TYPES



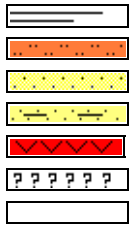
Anhy
Arg dol
Arg ls
Bent
Brec
Calc dol
Cht



Clyst
Coal
Congl
Dol
Dol ls
Gyp
Igne



Ls
Meta
Mrlst
Salt
Shale
Shblk
Shcol



Shgy
Sltst
Ss
Sssilty
Tuff
Unknown
Blank

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
Hvymin
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

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

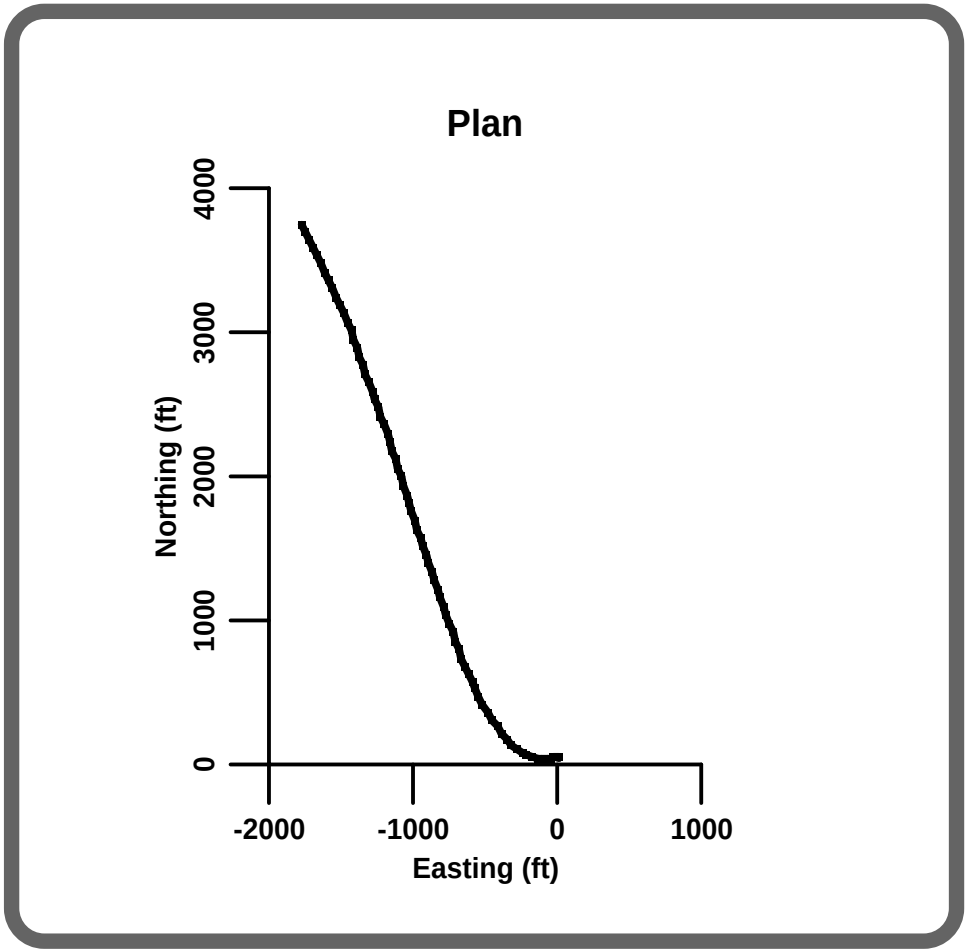
COMMENTS

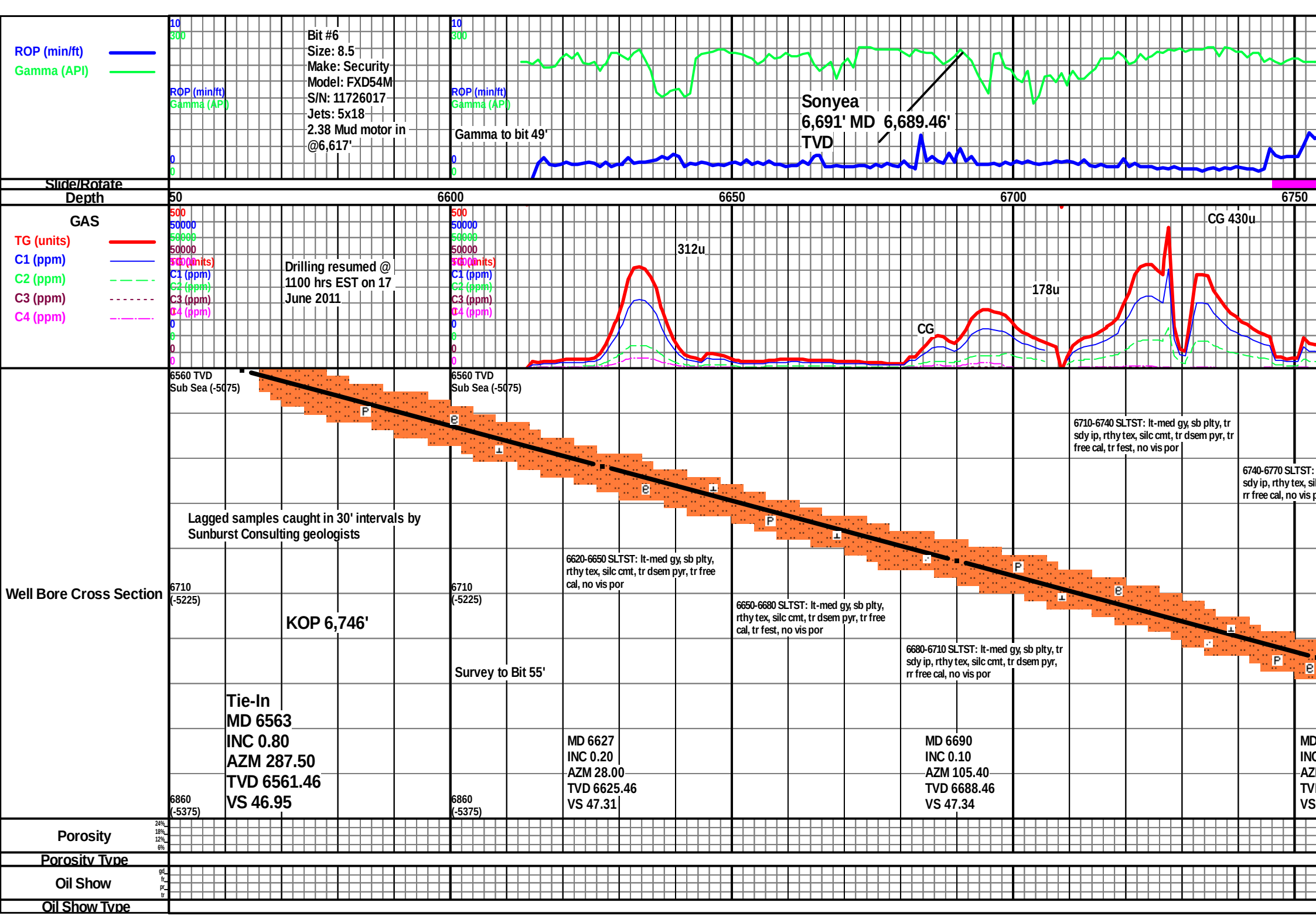
COMPANY MAN: Jeff Lofton, Bill Teel
TOOLPUSHER: Bruce Lambert, Ernie Langridge
RIG: Savanna 640E

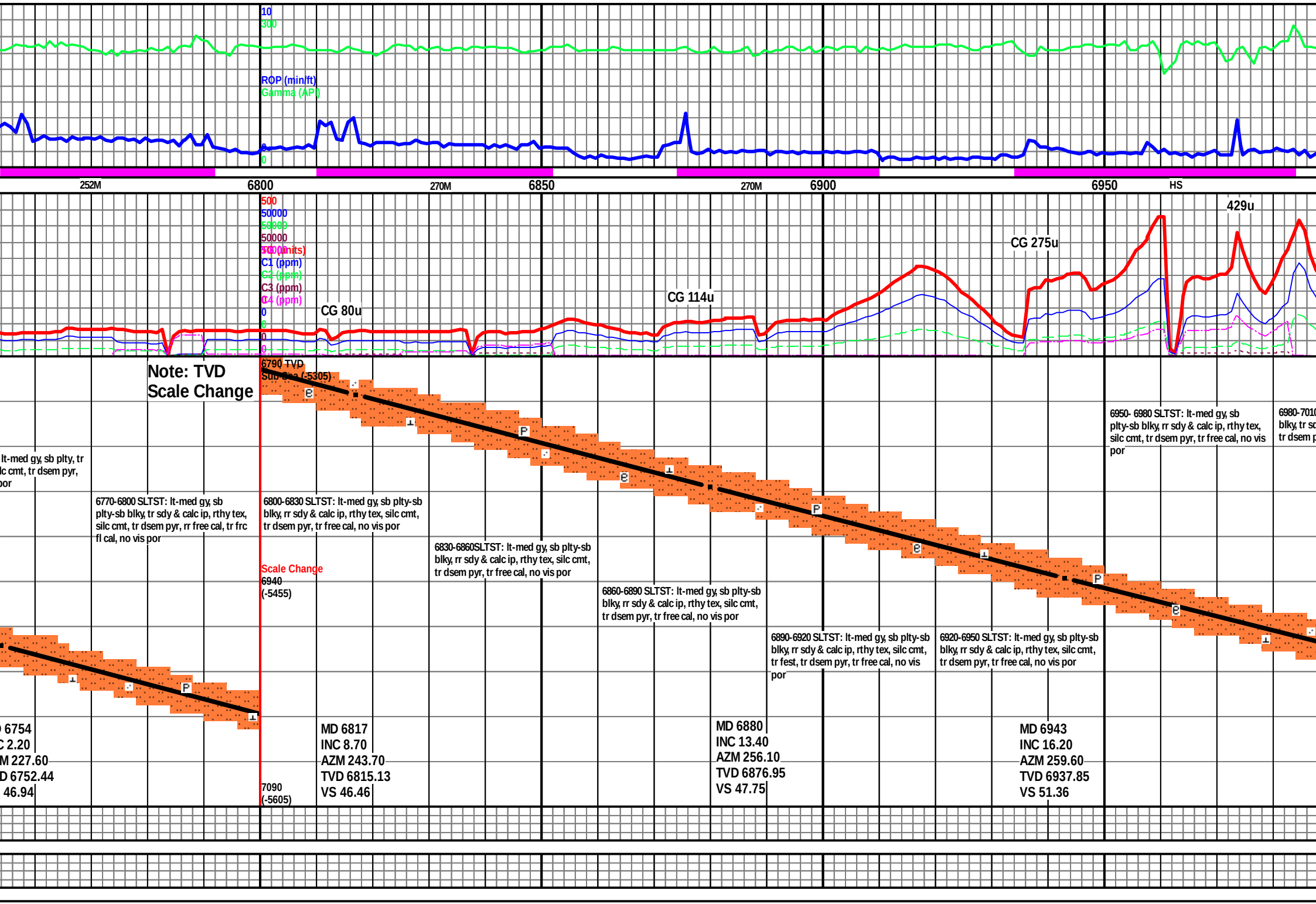
WV FILE #: 7265P511506R (285-21 & 285-46)

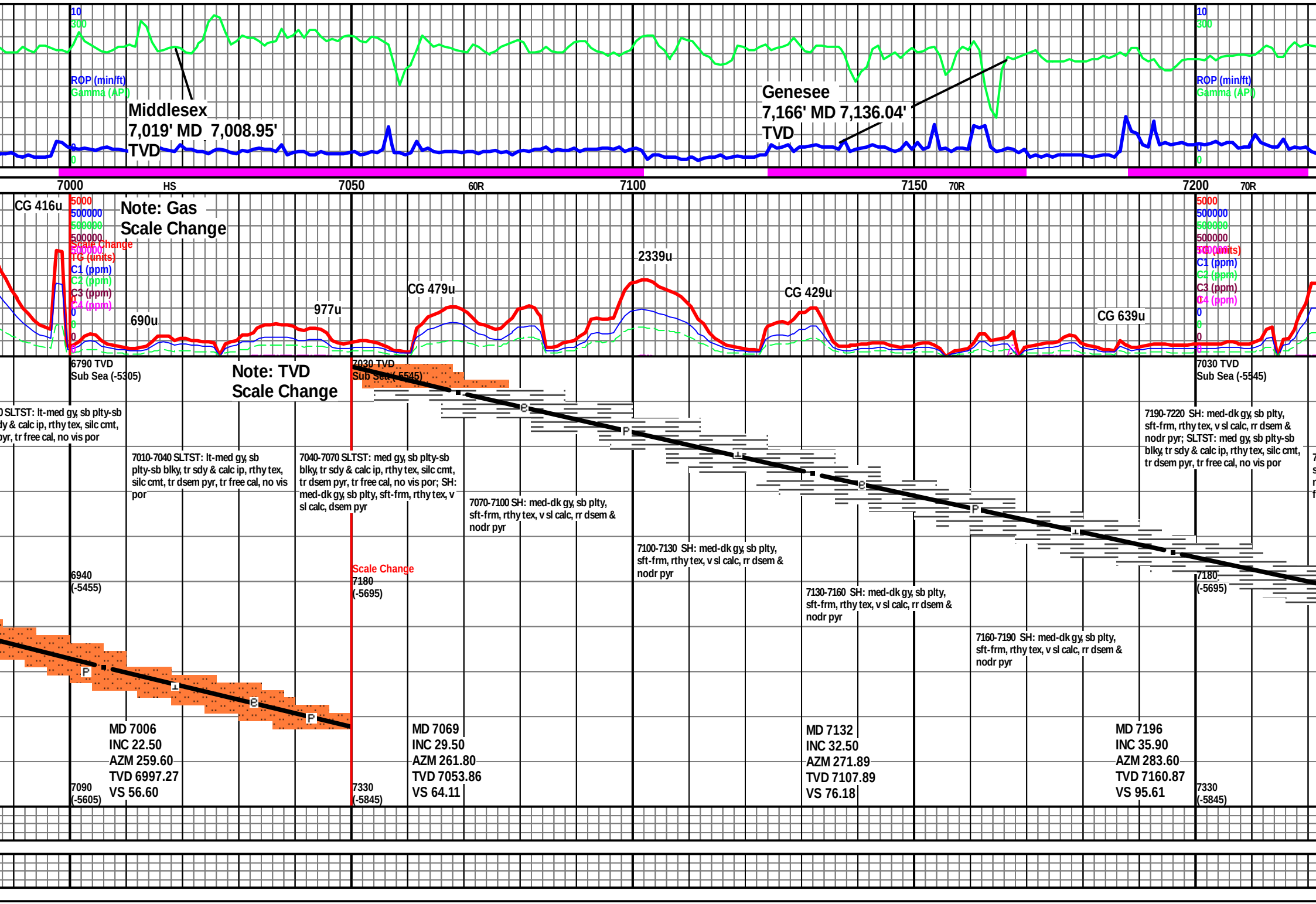
SURFACE CASING: 13 3/8", 54.5# MC-50, STC @ 940'
INTERMEDIATE CASING: 9 5/8" 40# MC-50, LTC @ 2,699'

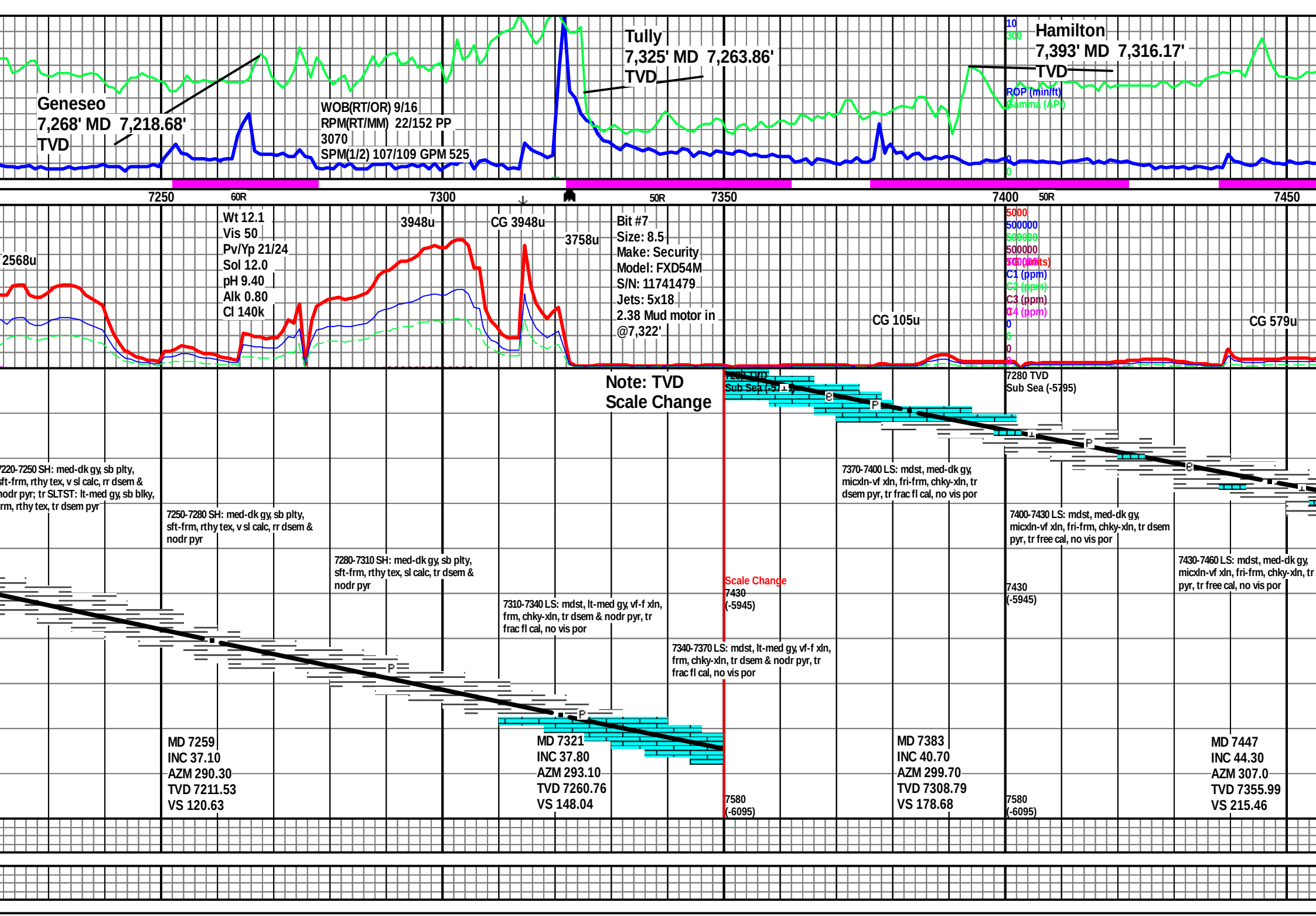
KOP: 6,746'
CLOSURE DIRECTION: 334.75°
CLOSURE DISTANCE: 4,146.67'

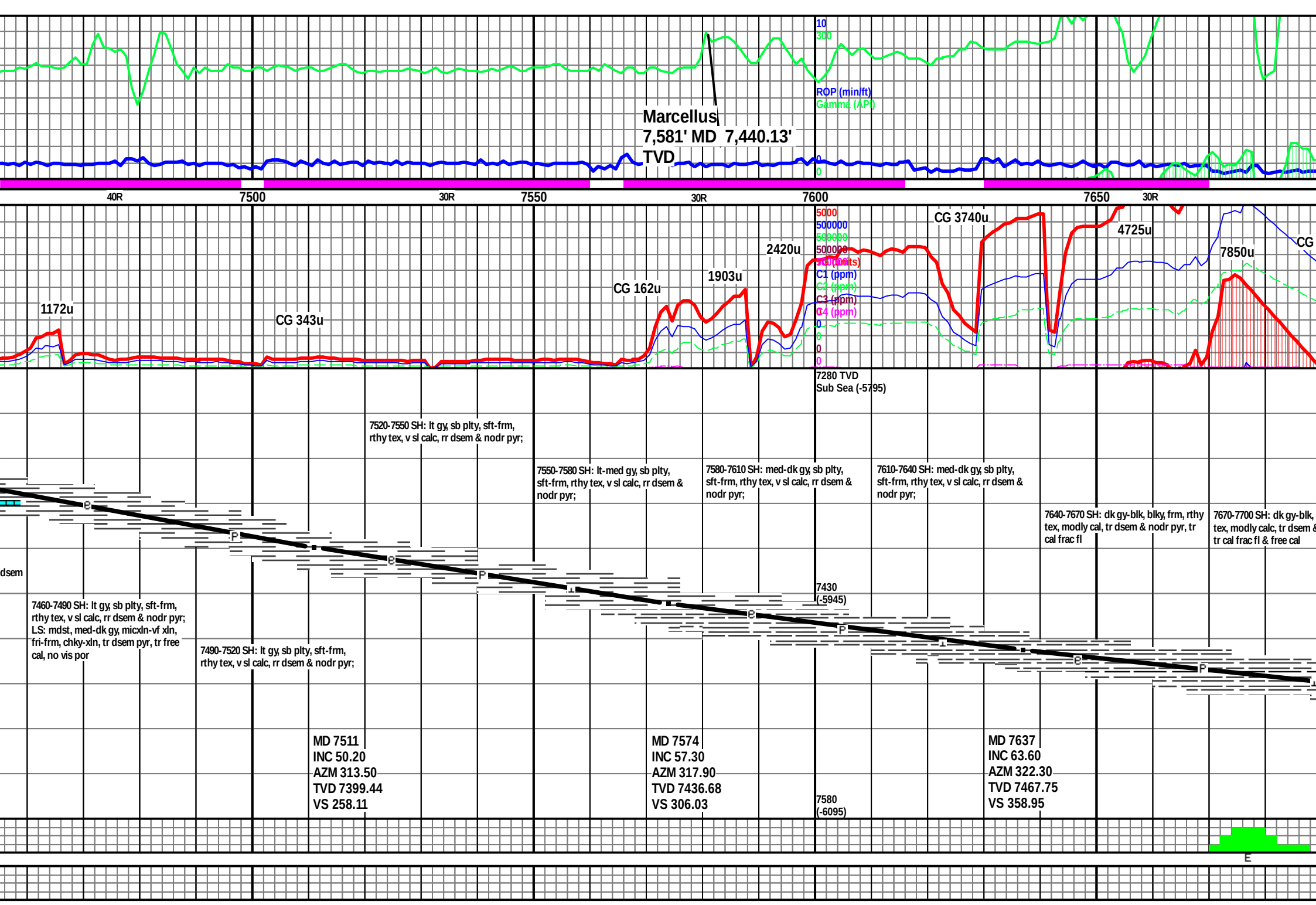

Plan
Northing (ft)
4000
3000
2000
1000
0
-2000
-1000
0
1000
Easting (ft)

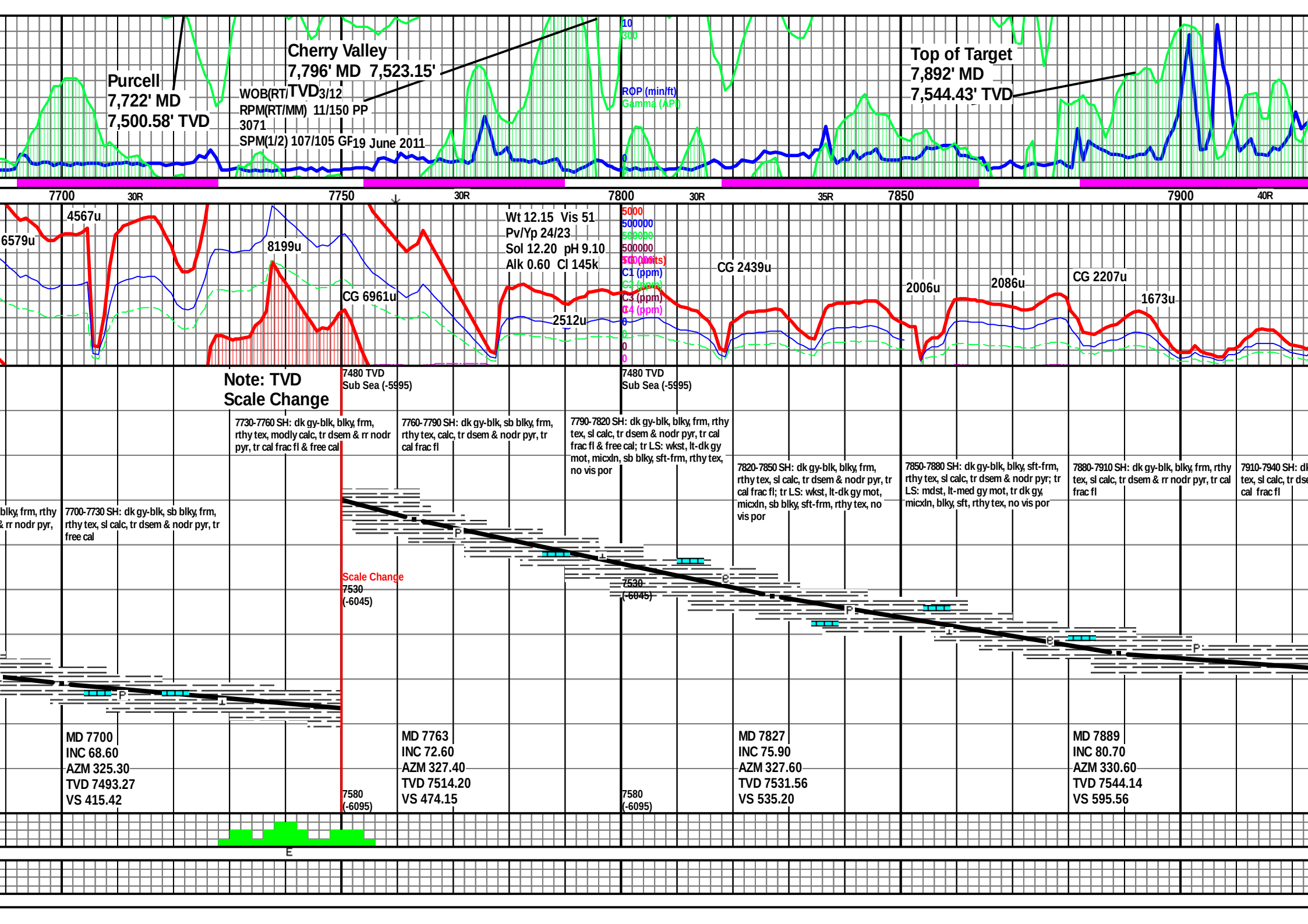

ROP (min/ft)
Gamma (API)
Bit #6
Size: 8.5
Make: Security
Model: FXD54M
S/N: 11726017
Jets: 5x18
2.38 Mud motor in @6,617'
Gamma to bit 49'
Sonyea
6,691' MD 6,689.46' TVD
Slide/Rotate
Depth
50
6600
6650
6700
6750
GAS
TG (units)
C1 (ppm)
C2 (ppm)
C3 (ppm)
C4 (ppm)
Drilling resumed @ 1100 hrs EST on 17 June 2011
312u
CG
178u
CG 430u
Well Bore Cross Section
6560 TVD
Sub Sea (-5075)
Lagged samples caught in 30' intervals by Sunburst Consulting geologists
6710
(-5225)
KOP 6,746'
Survey to Bit 55'
Tie-In
MD 6563
INC 0.80
AZM 287.50
TVD 6561.46
VS 46.95
6860
(-5375)
6620-6650 SLTST: lt-med gy, sb plty, rthy tex, silc cmt, tr dsem pyr, tr free cal, no vis por
MD 6627
INC 0.20
AZM 28.00
TVD 6625.46
VS 47.31
6650-6680 SLTST: lt-med gy, sb plty, rthy tex, silc cmt, tr dsem pyr, tr free cal, tr fest, no vis por
6680-6710 SLTST: lt-med gy, sb plty, tr sdy ip, rthy tex, silc cmt, tr dsem pyr, rr free cal, no vis por
MD 6690
INC 0.10
AZM 105.40
TVD 6688.46
VS 47.34
6710-6740 SLTST: lt-med gy, sb plty, tr sdy ip, rthy tex, silc cmt, tr dsem pyr, tr free cal, tr fest, no vis por
6740-6770 SLTST:
sdy ip, rthy tex, sil
rr free cal, no vis p
Porosity
Porosity Type
Oil Show
Oil Show Type

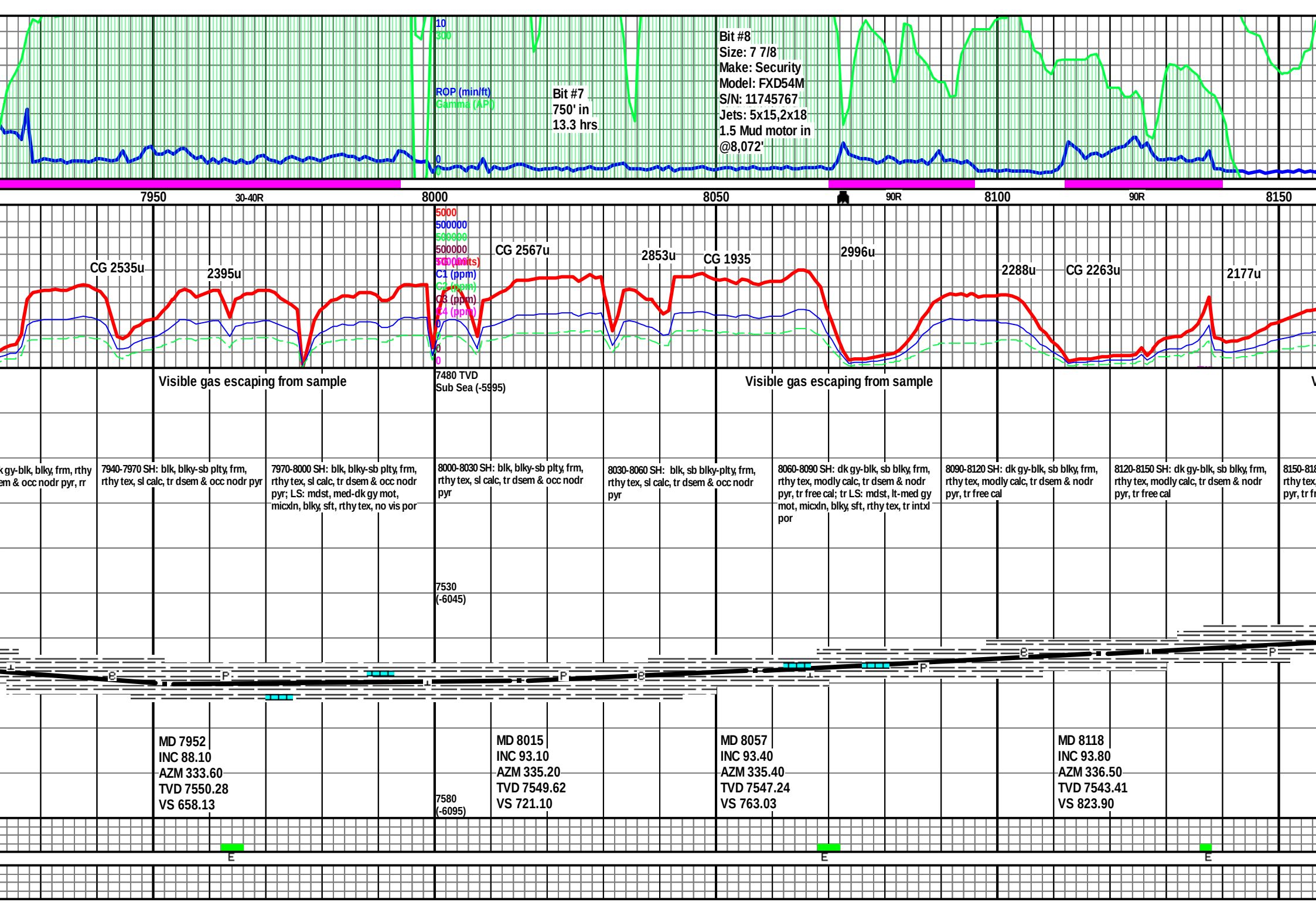

10
300
ROP (min/ft)
Gamma (API)
0
0
252M
6800
270M
6850
270M
6900
6950
HS
500
50000
50000
50000
C1 (ppm)
C2 (ppm)
C3 (ppm)
C4 (ppm)
0
0
0
0
CG 80u
CG 114u
CG 275u
429u
Note: TVD
Scale Change
6790 TVD
(-5305)
lt-med gy, sb plty, tr
lc cmt, tr dsem pyr,
por
6770-6800 SLTST: lt-med gy, sb plty-sb blky, tr sdy & calc ip, rthy tex, silc cmt, tr dsem pyr, rr free cal, tr frc fl cal, no vis por
6800-6830 SLTST: lt-med gy, sb plty-sb blky, rr sdy & calc ip, rthy tex, silc cmt, tr dsem pyr, tr free cal, no vis por
6830-6860SLTST: lt-med gy, sb plty-sb blky, rr sdy & calc ip, rthy tex, silc cmt, tr dsem pyr, tr free cal, no vis por
6860-6890 SLTST: lt-med gy, sb plty-sb blky, rr sdy & calc ip, rthy tex, silc cmt, tr dsem pyr, tr free cal, no vis por
6890-6920 SLTST: lt-med gy, sb plty-sb blky, rr sdy & calc ip, rthy tex, silc cmt, tr fest, tr dsem pyr, tr free cal, no vis por
6920-6950 SLTST: lt-med gy, sb plty-sb blky, rr sdy & calc ip, rthy tex, silc cmt, tr dsem pyr, tr free cal, no vis por
6950- 6980 SLTST: lt-med gy, sb plty-sb blky, rr sdy & calc ip, rthy tex, silc cmt, tr dsem pyr, tr free cal, no vis por
6980-7010
blky, tr sc
tr dsem p
Scale Change
6940
(-5455)
7090
(-5605)
6754
2.20
227.60
6752.44
46.94
MD 6817
INC 8.70
AZM 243.70
TVD 6815.13
VS 46.46
MD 6880
INC 13.40
AZM 256.10
TVD 6876.95
VS 47.75
MD 6943
INC 16.20
AZM 259.60
TVD 6937.85
VS 51.36

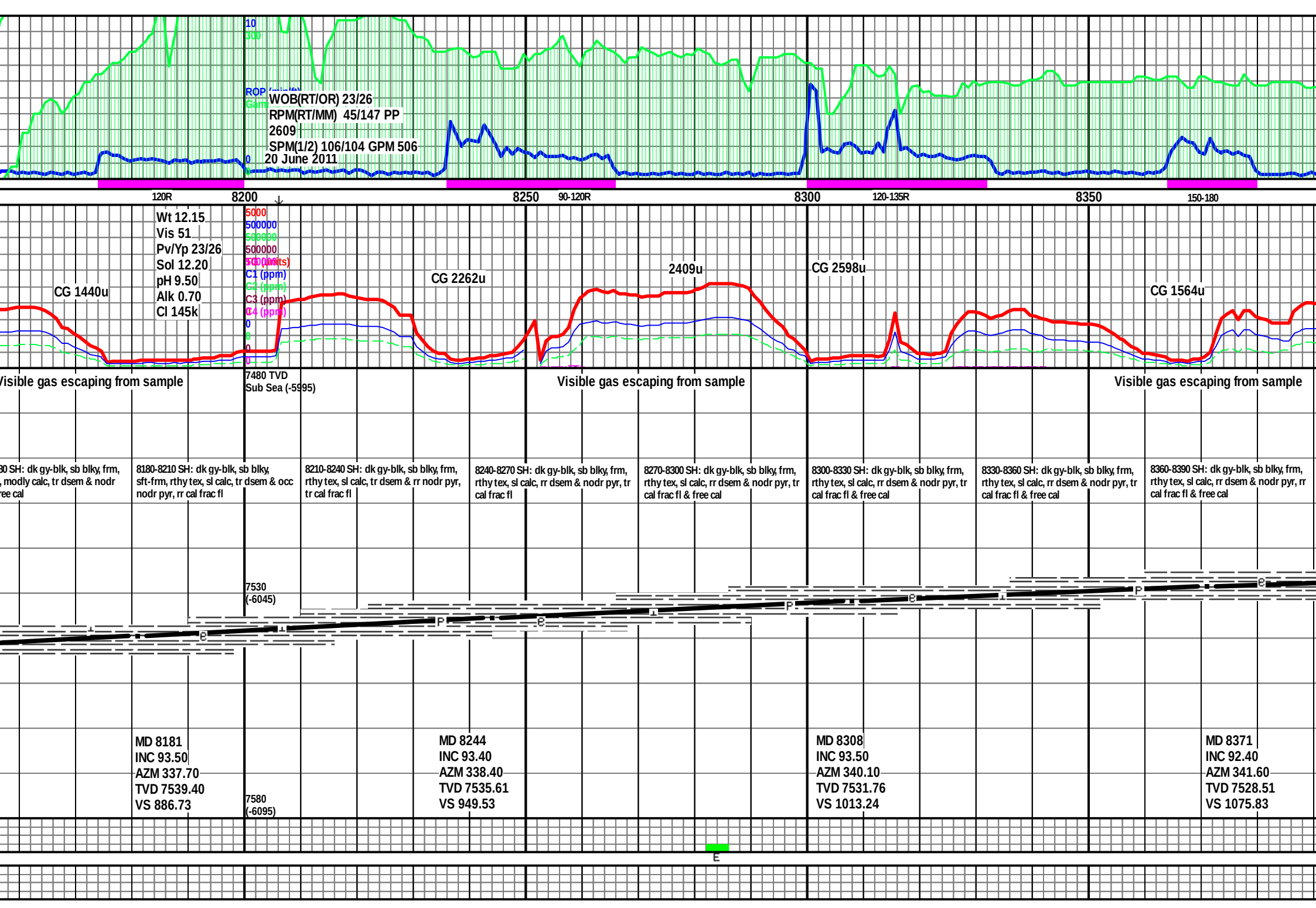

10
300
ROP (min/ft)
Gamma (API)
0
Middlesex
7,019' MD 7,008.95'
TVD
Genesee
7,166' MD 7,136.04'
TVD
7000
HS
7050
60R
7100
7150
70R
7200
70R
CG 416u
Note: Gas
Scale Change
5000
500000
Scale Change
TG (units)
C1 (ppm)
C2 (ppm)
C3 (ppm)
C4 (ppm)
690u
977u
CG 479u
2339u
CG 429u
CG 639u
6790 TVD
Sub Sea (-5305)
Note: TVD
Scale Change
7030 TVD
Sub Sea (-5545)
SLTST: lt-med gy, sb plty-sb
dy & calc ip, rthy tex, silc cmt,
pyr, tr free cal, no vis por
7010-7040 SLTST: lt-med gy, sb
plty-sb blky, tr sdy & calc ip, rthy tex,
silc cmt, tr dsem pyr, tr free cal, no vis
por
7040-7070 SLTST: med gy, sb plty-sb
blky, tr sdy & calc ip, rthy tex, silc cmt,
tr dsem pyr, tr free cal, no vis por; SH:
med-dk gy, sb plty, sft-frm, rthy tex, v
sl calc, dsem pyr
7070-7100 SH: med-dk gy, sb plty,
sft-frm, rthy tex, v sl calc, rr dsem &
nodr pyr
7100-7130 SH: med-dk gy, sb plty,
sft-frm, rthy tex, v sl calc, rr dsem &
nodr pyr
7130-7160 SH: med-dk gy, sb plty,
sft-frm, rthy tex, v sl calc, rr dsem &
nodr pyr
7160-7190 SH: med-dk gy, sb plty,
sft-frm, rthy tex, v sl calc, rr dsem &
nodr pyr
7190-7220 SH: med-dk gy, sb plty,
sft-frm, rthy tex, v sl calc, rr dsem &
nodr pyr; SLTST: med gy, sb plty-sb
blky, tr sdy & calc ip, rthy tex, silc cmt,
tr dsem pyr, tr free cal, no vis por
6940
(-5455)
Scale Change
7180
(-5695)
7180
(-5695)
MD 7006
INC 22.50
AZM 259.60
TVD 6997.27
VS 56.60
MD 7069
INC 29.50
AZM 261.80
TVD 7053.86
VS 64.11
MD 7132
INC 32.50
AZM 271.89
TVD 7107.89
VS 76.18
MD 7196
INC 35.90
AZM 283.60
TVD 7160.87
VS 95.61
7090
(-5605)
7330
(-5845)
7330
(-5845)

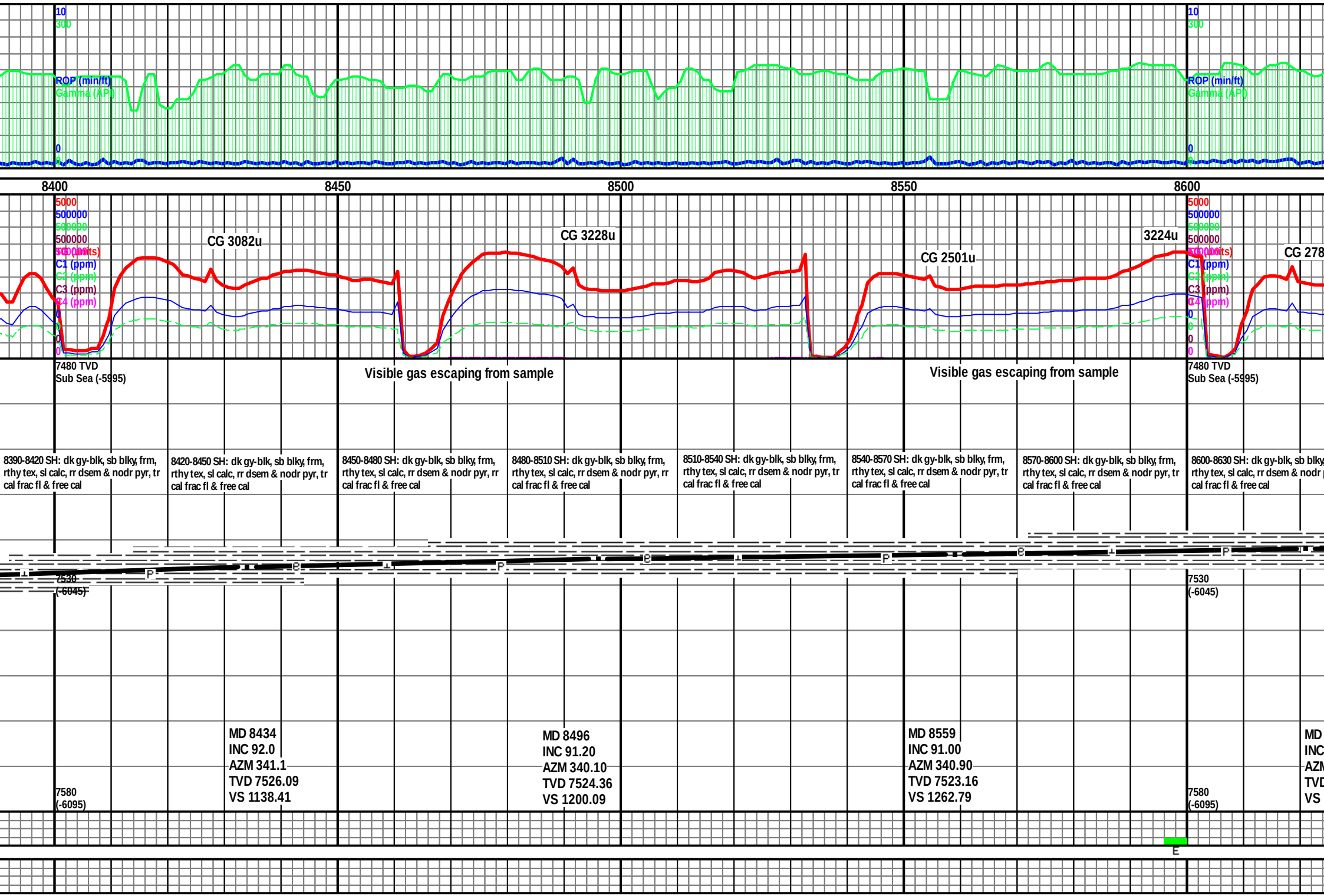

Geneseo
7,268' MD 7,218.68'
TVD
WOB(RT/OR) 9/16
RPM(RT/MM) 22/152 PP 3070
SPM(1/2) 107/109 GPM 525
Tully
7,325' MD 7,263.86'
TVD
Hamilton
7,393' MD 7,316.17'
TVD
ROP (min/ft)
Gamma (API)
7250
60R
7300
50R
7350
7400
50R
7450
2568u
Wt 12.1
Vis 50
Pv/Yp 21/24
Sol 12.0
pH 9.40
Alk 0.80
Cl 140k
3948u
CG 3948u
3758u
Bit #7
Size: 8.5
Make: Security
Model: FXD54M
S/N: 11741479
Jets: 5x18
2.38 Mud motor in @7,322'
CG 105u
CG 579u
C1 (ppm)
C2 (ppm)
C3 (ppm)
C4 (ppm)
Note: TVD Scale Change
7280 TVD
Sub Sea (-5795)
7220-7250 SH: med-dk gy, sb plty, sft-frm, rthy tex, v sl calc, rr dsem & nodr pyr; tr SLTST: lt-med gy, sb blky, rm, rthy tex, tr dsem pyr
7250-7280 SH: med-dk gy, sb plty, sft-frm, rthy tex, v sl calc, rr dsem & nodr pyr
7280-7310 SH: med-dk gy, sb plty, sft-frm, rthy tex, sl calc, tr dsem & nodr pyr
7310-7340 LS: mdst, lt-med gy, vf-f xln, frm, chky-xln, tr dsem & nodr pyr, tr frac fl cal, no vis por
7340-7370 LS: mdst, lt-med gy, vf-f xln, frm, chky-xln, tr dsem & nodr pyr, tr frac fl cal, no vis por
7370-7400 LS: mdst, med-dk gy, micxln-vf xln, fri-frm, chky-xln, tr dsem pyr, tr frac fl cal, no vis por
7400-7430 LS: mdst, med-dk gy, micxln-vf xln, fri-frm, chky-xln, tr dsem pyr, tr free cal, no vis por
7430-7460 LS: mdst, med-dk gy, micxln-vf xln, fri-frm, chky-xln, tr pyr, tr free cal, no vis por
Scale Change
7430
(-5945)
7430
(-5945)
7580
(-6095)
7580
(-6095)
MD 7259
INC 37.10
AZM 290.30
TVD 7211.53
VS 120.63
MD 7321
INC 37.80
AZM 293.10
TVD 7260.76
VS 148.04
MD 7383
INC 40.70
AZM 299.70
TVD 7308.79
VS 178.68
MD 7447
INC 44.30
AZM 307.0
TVD 7355.99
VS 215.46

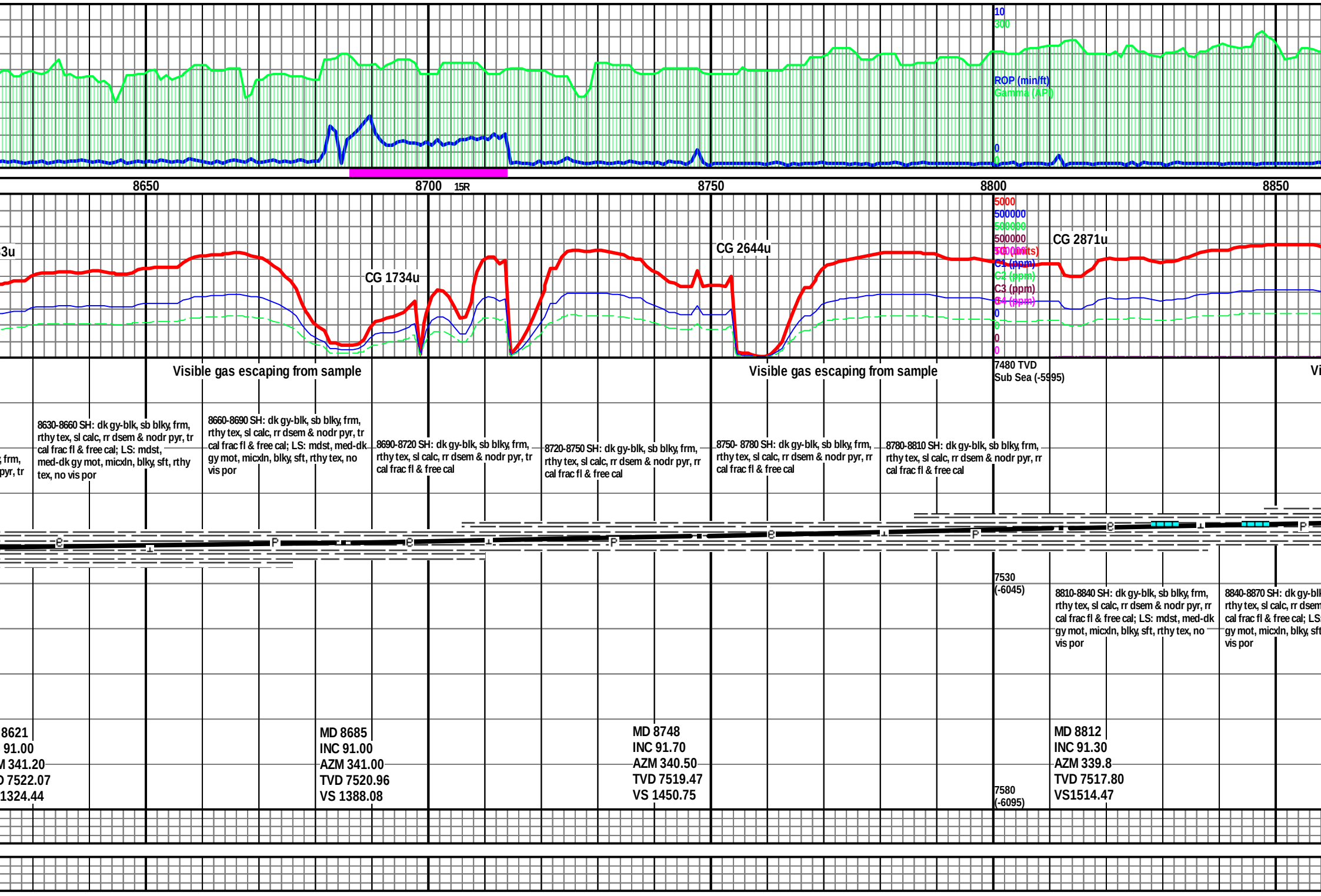

10
300
ROP (min/ft)
Gamma (API)
Marcellus
7,581' MD 7,440.13'
TVD
40R
7500
30R
7550
30R
7600
7650
30R
5000
500000
500000
500000
500000
Units)
C1 (ppm)
C2 (ppm)
C3 (ppm)
C4 (ppm)
0
0
0
0
1172u
CG 343u
CG 162u
1903u
2420u
CG 3740u
4725u
7850u
CG
7280 TVD
Sub Sea (-5795)
7520-7550 SH: lt gy, sb plty, sft-frm, rthy tex, v sl calc, rr dsem & nodr pyr;
7550-7580 SH: lt-med gy, sb plty, sft-frm, rthy tex, v sl calc, rr dsem & nodr pyr;
7580-7610 SH: med-dk gy, sb plty, sft-frm, rthy tex, v sl calc, rr dsem & nodr pyr;
7610-7640 SH: med-dk gy, sb plty, sft-frm, rthy tex, v sl calc, rr dsem & nodr pyr;
7640-7670 SH: dk gy-blk, blky, frm, rthy tex, modly cal, tr dsem & nodr pyr, tr cal frac fl
7670-7700 SH: dk gy-blk, tex, modly calc, tr dsem & tr cal frac fl & free cal
dsem
7460-7490 SH: lt gy, sb plty, sft-frm, rthy tex, v sl calc, rr dsem & nodr pyr; LS: mdst, med-dk gy, micxln-vf xln, fri-frm, chky-xln, tr dsem pyr, tr free cal, no vis por
7490-7520 SH: lt gy, sb plty, sft-frm, rthy tex, v sl calc, rr dsem & nodr pyr;
7430
(-5945)
MD 7511
INC 50.20
AZM 313.50
TVD 7399.44
VS 258.11
MD 7574
INC 57.30
AZM 317.90
TVD 7436.68
VS 306.03
MD 7637
INC 63.60
AZM 322.30
TVD 7467.75
VS 358.95
7580
(-6095)

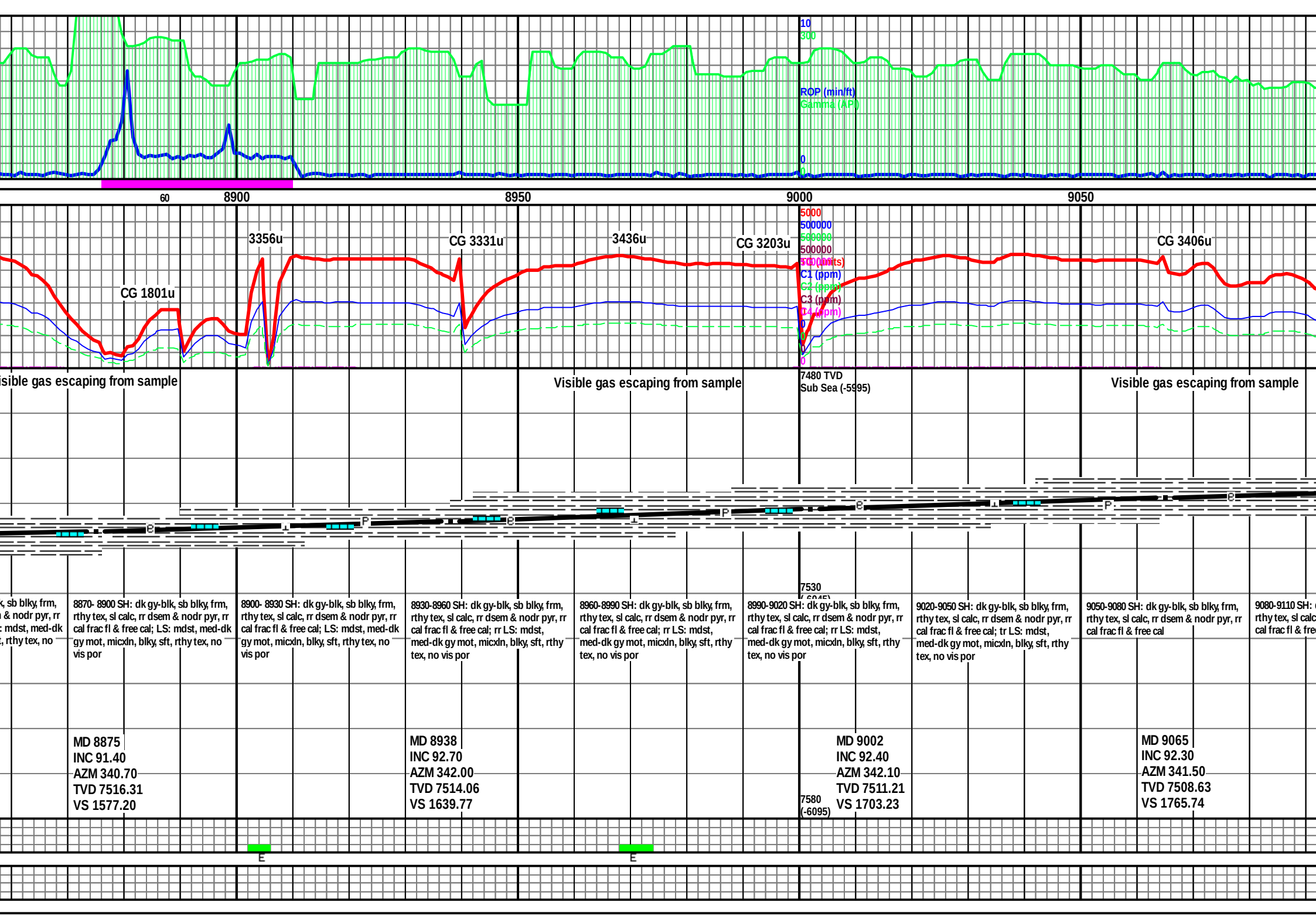

Purcell
7,722' MD
7,500.58' TVD
Cherry Valley
7,796' MD 7,523.15'
TVD
WOB(RT/MM) 3/12
RPM(RT/MM) 11/150 PP
3071
SPM(1/2) 107/105 GF
19 June 2011
ROP (min/ft)
Gamma (API)
Top of Target
7,892' MD
7,544.43' TVD
7700
30R
7750
30R
7800
30R
35R
7850
7900
40R
4567u
6579u
8199u
CG 6961u
2512u
Wt 12.15 Vis 51
Pv/Yp 24/23
Sol 12.20 pH 9.10
Alk 0.60 Cl 145k
C1 (ppm)
C2 (ppm)
C3 (ppm)
C4 (ppm)
CG 2439u
2006u
2086u
CG 2207u
1673u
Note: TVD
Scale Change
7480 TVD
Sub Sea (-5995)
7480 TVD
Sub Sea (-5995)
7730-7760 SH: dk gy-blk, blky, frm, rthy tex, modly calc, tr dsem & rr nodr pyr, tr cal frac fl & free cal
7760-7790 SH: dk gy-blk, sb blky, frm, rthy tex, calc, tr dsem & nodr pyr, tr cal frac fl
7790-7820 SH: dk gy-blk, blky, frm, rthy tex, sl calc, tr dsem & nodr pyr, tr cal frac fl & free cal; tr LS: wkst, lt-dk gy mot, micxln, sb blky, sft-frm, rthy tex, no vis por
7820-7850 SH: dk gy-blk, blky, frm, rthy tex, sl calc, tr dsem & nodr pyr, tr cal frac fl; tr LS: wkst, lt-dk gy mot, micxln, sb blky, sft-frm, rthy tex, no vis por
7850-7880 SH: dk gy-blk, blky, sft-frm, rthy tex, sl calc, tr dsem & nodr pyr; tr LS: mdst, lt-med gy mot, tr dk gy, micxln, blky, sft, rthy tex, no vis por
7880-7910 SH: dk gy-blk, blky, frm, rthy tex, sl calc, tr dsem & rr nodr pyr, tr cal frac fl
7910-7940 SH: dk gy-blk, tex, sl calc, tr dsem cal frac fl
blky, frm, rthy & rr nodr pyr,
7700-7730 SH: dk gy-blk, sb blky, frm, rthy tex, sl calc, tr dsem & nodr pyr, tr free cal
Scale Change
7530
(-6045)
7530
(-6045)
MD 7700
INC 68.60
AZM 325.30
TVD 7493.27
VS 415.42
MD 7763
INC 72.60
AZM 327.40
TVD 7514.20
VS 474.15
MD 7827
INC 75.90
AZM 327.60
TVD 7531.56
VS 535.20
MD 7889
INC 80.70
AZM 330.60
TVD 7544.14
VS 595.56
7580
(-6095)
7580
(-6095)
E

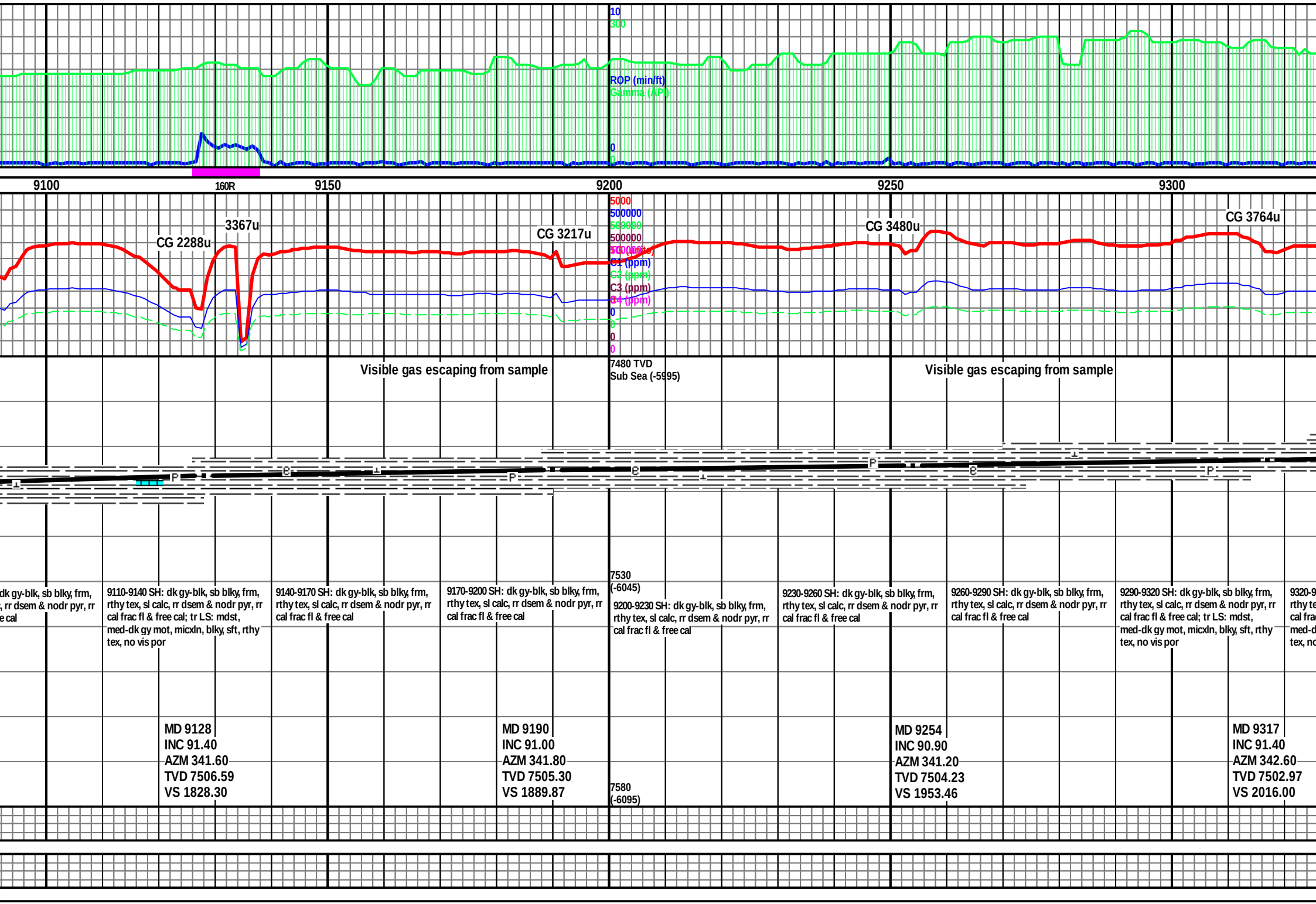

10
300
ROP (min/ft)
Gamma (API)
0
0
Bit #7
750' in
13.3 hrs
Bit #8
Size: 7 7/8
Make: Security
Model: FXD54M
S/N: 11745767
Jets: 5x15,2x18
1.5 Mud motor in
@8,072'
7950
30-40R
8000
8050
90R
8100
90R
8150
5000
500000
500000
500000
500000 (units)
C1 (ppm)
C2 (ppm)
C3 (ppm)
C4 (ppm)
0
0
0
CG 2535u
2395u
CG 2567u
2853u
CG 1935
2996u
2288u
CG 2263u
2177u
Visible gas escaping from sample
7480 TVD
Sub Sea (-5995)
Visible gas escaping from sample
k gy-blk, blky, frm, rthy
em & occ nodr pyr, rr
7940-7970 SH: blk, blky-sb plty, frm, rthy tex, sl calc, tr dsem & occ nodr pyr
7970-8000 SH: blk, blky-sb plty, frm, rthy tex, sl calc, tr dsem & occ nodr pyr; LS: mdst, med-dk gy mot, micxln, blky, sft, rthy tex, no vis por
8000-8030 SH: blk, blky-sb plty, frm, rthy tex, sl calc, tr dsem & occ nodr pyr
8030-8060 SH: blk, sb blky-plty, frm, rthy tex, sl calc, tr dsem & occ nodr pyr
8060-8090 SH: dk gy-blk, sb blky, frm, rthy tex, modly calc, tr dsem & nodr pyr, tr free cal; tr LS: mdst, lt-med gy mot, micxln, blky, sft, rthy tex, tr intxl por
8090-8120 SH: dk gy-blk, sb blky, frm, rthy tex, modly calc, tr dsem & nodr pyr, tr free cal
8120-8150 SH: dk gy-blk, sb blky, frm, rthy tex, modly calc, tr dsem & nodr pyr, tr free cal
8150-818
rthy tex,
pyr, tr fr
7530
(-6045)
7580
(-6095)
B
P
B
P
B
P
B
P
MD 7952
INC 88.10
AZM 333.60
TVD 7550.28
VS 658.13
MD 8015
INC 93.10
AZM 335.20
TVD 7549.62
VS 721.10
MD 8057
INC 93.40
AZM 335.40
TVD 7547.24
VS 763.03
MD 8118
INC 93.80
AZM 336.50
TVD 7543.41
VS 823.90
E
E
E

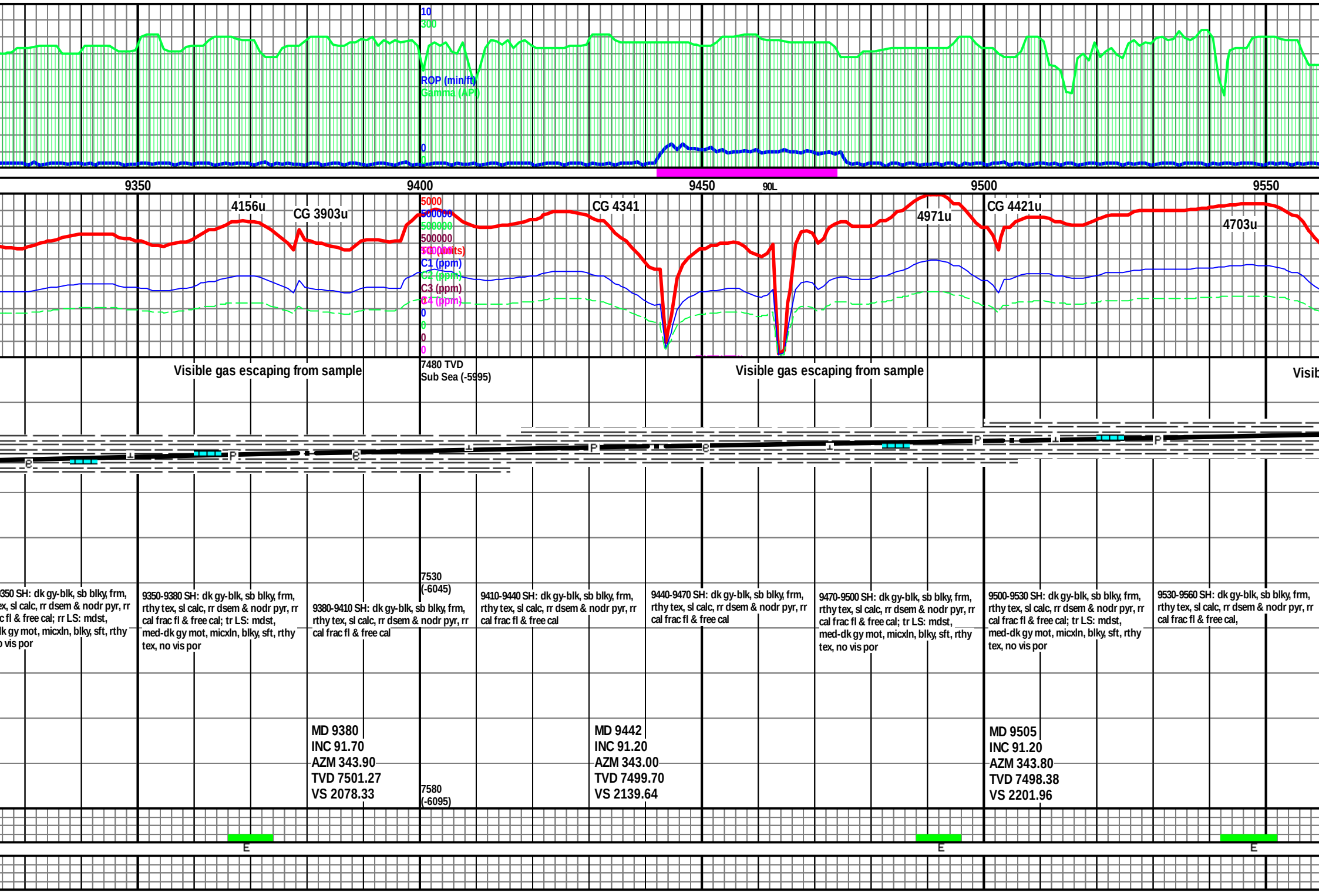

10
300
ROP
Gam
WOB(RT/OR) 23/26
RPM(RT/MM) 45/147 PP
2609
SPM(1/2) 106/104 GPM 506
0
20 June 2011
120R
8200
8250
90-120R
8300
120-135R
8350
150-180
Wt 12.15
Vis 51
Pv/Yp 23/26
Sol 12.20
pH 9.50
Alk 0.70
Cl 145k
5000
500000
500000
500000
C1 (ppm)
C2 (ppm)
C3 (ppm)
C4 (ppm)
0
0
0
0
CG 1440u
CG 2262u
2409u
CG 2598u
CG 1564u
Visible gas escaping from sample
Visible gas escaping from sample
Visible gas escaping from sample
7480 TVD
Sub Sea (-5995)
30 SH: dk gy-blk, sb blky, frm, , modly calc, tr dsem & nodr ree cal
8180-8210 SH: dk gy-blk, sb blky, sft-frm, rthy tex, sl calc, tr dsem & occ nodr pyr, rr cal frac fl
8210-8240 SH: dk gy-blk, sb blky, frm, rthy tex, sl calc, tr dsem & rr nodr pyr, tr cal frac fl
8240-8270 SH: dk gy-blk, sb blky, frm, rthy tex, sl calc, rr dsem & nodr pyr, tr cal frac fl
8270-8300 SH: dk gy-blk, sb blky, frm, rthy tex, sl calc, rr dsem & nodr pyr, tr cal frac fl & free cal
8300-8330 SH: dk gy-blk, sb blky, frm, rthy tex, sl calc, rr dsem & nodr pyr, tr cal frac fl & free cal
8330-8360 SH: dk gy-blk, sb blky, frm, rthy tex, sl calc, rr dsem & nodr pyr, tr cal frac fl & free cal
8360-8390 SH: dk gy-blk, sb blky, frm, rthy tex, sl calc, rr dsem & nodr pyr, rr cal frac fl & free cal
7530
(-6045)
MD 8181
INC 93.50
AZM 337.70
TVD 7539.40
VS 886.73
7580
(-6095)
MD 8244
INC 93.40
AZM 338.40
TVD 7535.61
VS 949.53
MD 8308
INC 93.50
AZM 340.10
TVD 7531.76
VS 1013.24
MD 8371
INC 92.40
AZM 341.60
TVD 7528.51
VS 1075.83
E

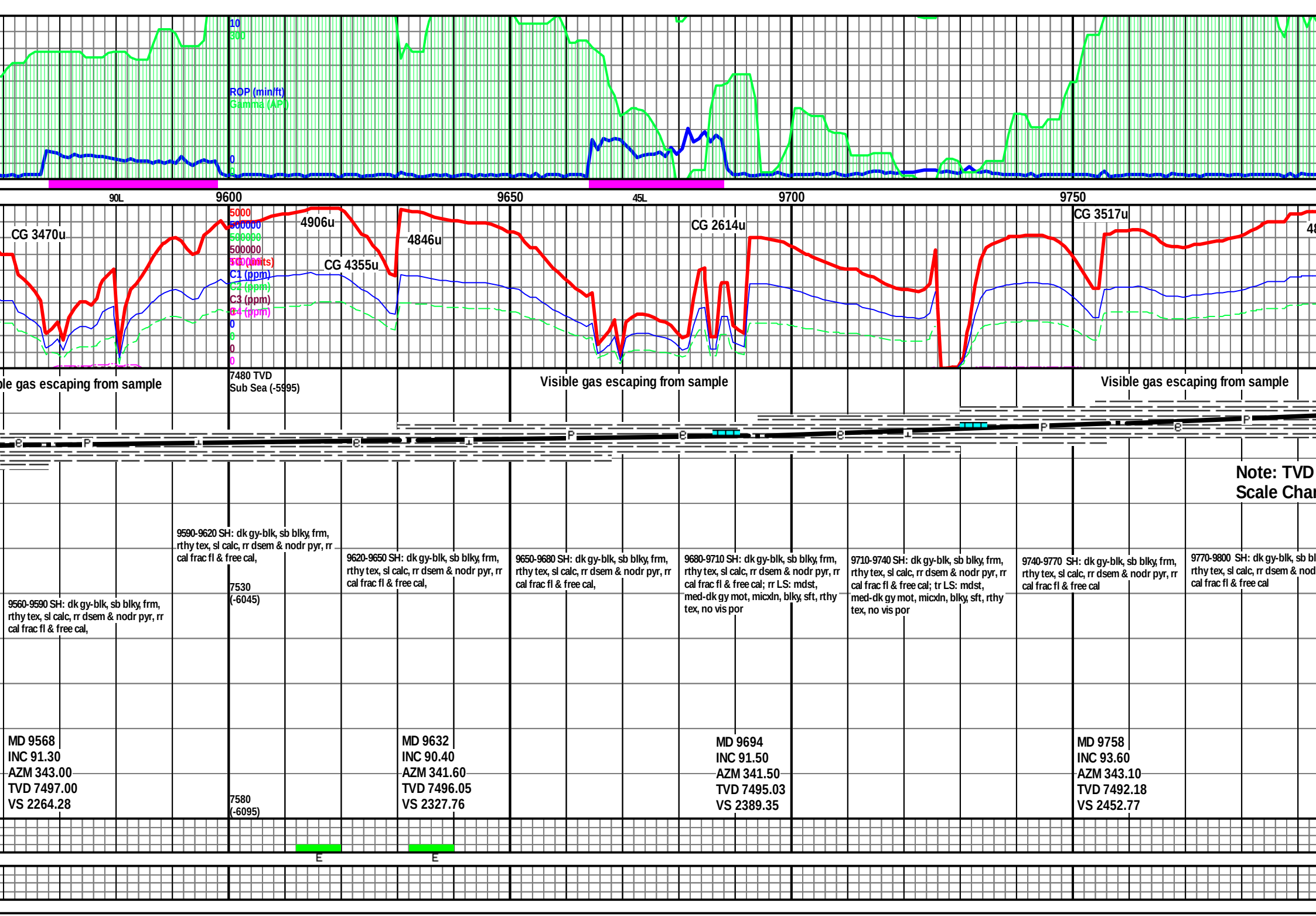

10
300
ROP (min/ft)
Gamma (API)
0
8400
8450
8500
8550
8600
5000
500000
C1 (ppm)
C2 (ppm)
C3 (ppm)
C4 (ppm)
CG 3082u
CG 3228u
CG 2501u
3224u
CG 278
7480 TVD
Sub Sea (-5995)
Visible gas escaping from sample
Visible gas escaping from sample
8390-8420 SH: dk gy-blk, sb blky, frm, rthy tex, sl calc, rr dsem & nodr pyr, tr cal frac fl & free cal
8420-8450 SH: dk gy-blk, sb blky, frm, rthy tex, sl calc, rr dsem & nodr pyr, tr cal frac fl & free cal
8450-8480 SH: dk gy-blk, sb blky, frm, rthy tex, sl calc, rr dsem & nodr pyr, rr cal frac fl & free cal
8480-8510 SH: dk gy-blk, sb blky, frm, rthy tex, sl calc, rr dsem & nodr pyr, rr cal frac fl & free cal
8510-8540 SH: dk gy-blk, sb blky, frm, rthy tex, sl calc, rr dsem & nodr pyr, tr cal frac fl & free cal
8540-8570 SH: dk gy-blk, sb blky, frm, rthy tex, sl calc, rr dsem & nodr pyr, tr cal frac fl & free cal
8570-8600 SH: dk gy-blk, sb blky, frm, rthy tex, sl calc, rr dsem & nodr pyr, tr cal frac fl & free cal
8600-8630 SH: dk gy-blk, sb blky, rthy tex, sl calc, rr dsem & nodr cal frac fl & free cal
7530
(-6045)
7580
(-6095)
MD 8434
INC 92.0
AZM 341.1
TVD 7526.09
VS 1138.41
MD 8496
INC 91.20
AZM 340.10
TVD 7524.36
VS 1200.09
MD 8559
INC 91.00
AZM 340.90
TVD 7523.16
VS 1262.79

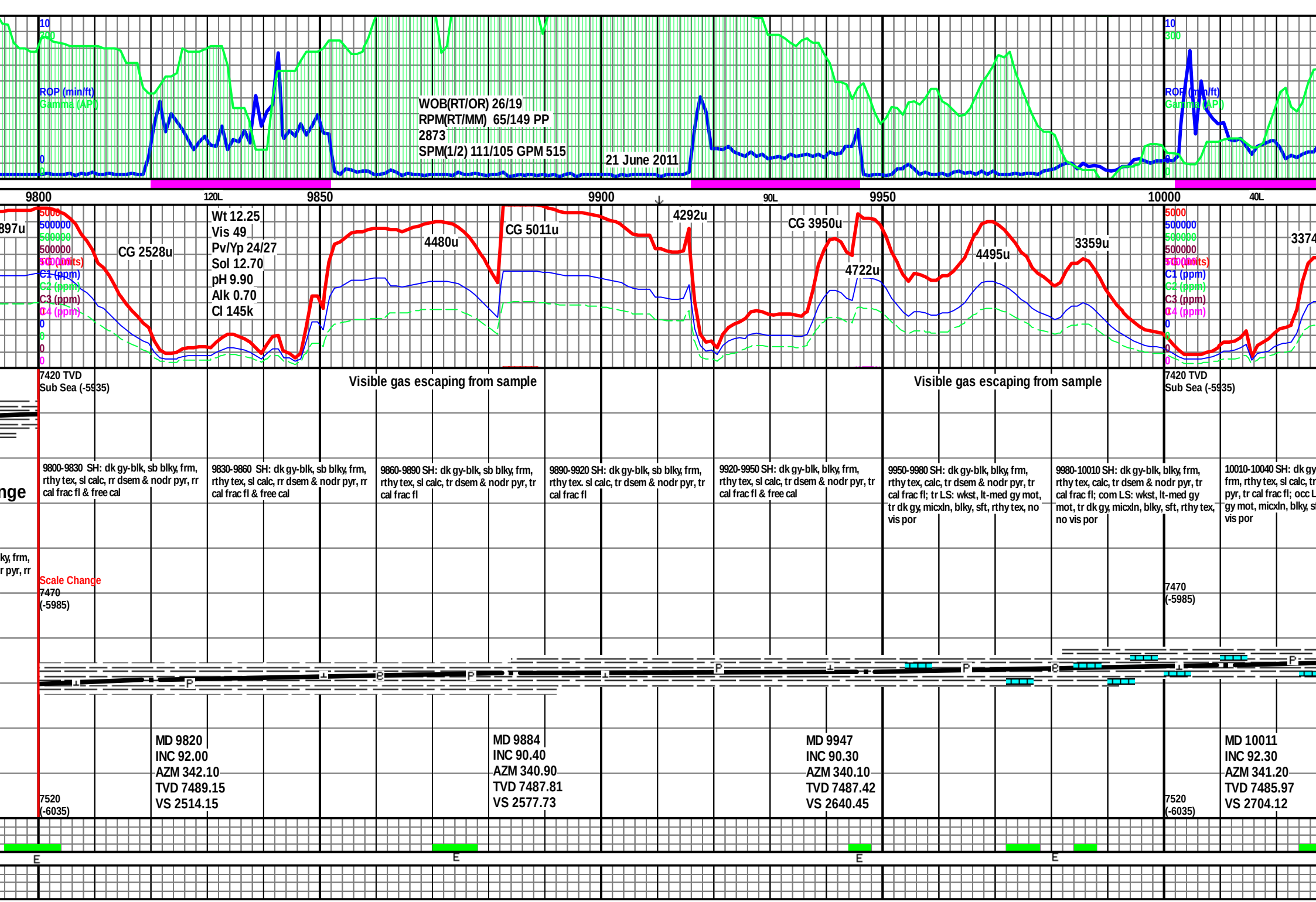

10
300
ROP (min/ft)
Gamma (API)
0
0
8650
8700
15R
8750
8800
8850
5000
500000
500000
500000
C1 (ppm)
C2 (ppm)
C3 (ppm)
C4 (ppm)
0
0
0
0
CG 1734u
CG 2644u
CG 2871u
Visible gas escaping from sample
Visible gas escaping from sample
7480 TVD
Sub Sea (-5995)
8630-8660 SH: dk gy-blk, sb blky, frm, rthy tex, sl calc, rr dsem & nodr pyr, tr cal frac fl & free cal; LS: mdst, med-dk gy mot, micxln, blky, sft, rthy tex, no vis por
8660-8690 SH: dk gy-blk, sb blky, frm, rthy tex, sl calc, rr dsem & nodr pyr, tr cal frac fl & free cal; LS: mdst, med-dk gy mot, micxln, blky, sft, rthy tex, no vis por
8690-8720 SH: dk gy-blk, sb blky, frm, rthy tex, sl calc, rr dsem & nodr pyr, tr cal frac fl & free cal
8720-8750 SH: dk gy-blk, sb blky, frm, rthy tex, sl calc, rr dsem & nodr pyr, rr cal frac fl & free cal
8750- 8780 SH: dk gy-blk, sb blky, frm, rthy tex, sl calc, rr dsem & nodr pyr, rr cal frac fl & free cal
8780-8810 SH: dk gy-blk, sb blky, frm, rthy tex, sl calc, rr dsem & nodr pyr, rr cal frac fl & free cal
7530
(-6045)
8810-8840 SH: dk gy-blk, sb blky, frm, rthy tex, sl calc, rr dsem & nodr pyr, rr cal frac fl & free cal; LS: mdst, med-dk gy mot, micxln, blky, sft, rthy tex, no vis por
8840-8870 SH: dk gy-blk
rthy tex, sl calc, rr dsem
cal frac fl & free cal; LS
gy mot, micxln, blky, sft
vis por
8621
91.00
M 341.20
D 7522.07
1324.44
MD 8685
INC 91.00
AZM 341.00
TVD 7520.96
VS 1388.08
MD 8748
INC 91.70
AZM 340.50
TVD 7519.47
VS 1450.75
MD 8812
INC 91.30
AZM 339.8
TVD 7517.80
VS1514.47
7580
(-6095)

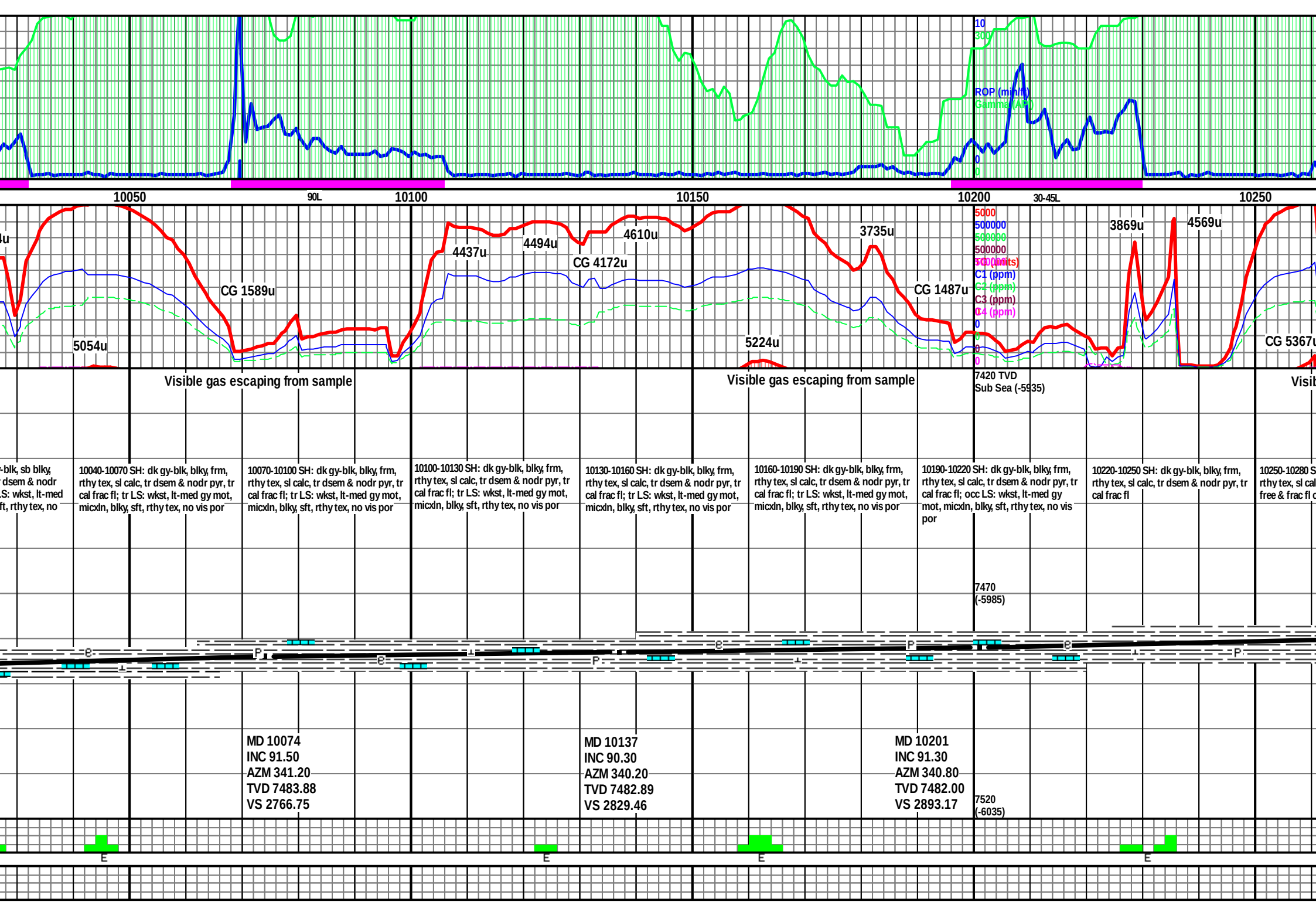

10
300
ROP (min/ft)
Gamma (API)
0
60
8900
8950
9000
9050
5000
500000
500000
500000
500000 (units)
C1 (ppm)
C2 (ppm)
C3 (ppm)
C4 (ppm)
0
CG 1801u
3356u
CG 3331u
3436u
CG 3203u
CG 3406u
Visible gas escaping from sample
Visible gas escaping from sample
Visible gas escaping from sample
7480 TVD
Sub Sea (-5995)
7530
7580
(-6095)
8870- 8900 SH: dk gy-blk, sb blky, frm, rthy tex, sl calc, rr dsem & nodr pyr, rr cal frac fl & free cal; LS: mdst, med-dk gy mot, micxln, blky, sft, rthy tex, no vis por
8900- 8930 SH: dk gy-blk, sb blky, frm, rthy tex, sl calc, rr dsem & nodr pyr, rr cal frac fl & free cal; LS: mdst, med-dk gy mot, micxln, blky, sft, rthy tex, no vis por
8930-8960 SH: dk gy-blk, sb blky, frm, rthy tex, sl calc, rr dsem & nodr pyr, rr cal frac fl & free cal; rr LS: mdst, med-dk gy mot, micxln, blky, sft, rthy tex, no vis por
8960-8990 SH: dk gy-blk, sb blky, frm, rthy tex, sl calc, rr dsem & nodr pyr, rr cal frac fl & free cal; rr LS: mdst, med-dk gy mot, micxln, blky, sft, rthy tex, no vis por
8990-9020 SH: dk gy-blk, sb blky, frm, rthy tex, sl calc, rr dsem & nodr pyr, rr cal frac fl & free cal; rr LS: mdst, med-dk gy mot, micxln, blky, sft, rthy tex, no vis por
9020-9050 SH: dk gy-blk, sb blky, frm, rthy tex, sl calc, rr dsem & nodr pyr, rr cal frac fl & free cal; tr LS: mdst, med-dk gy mot, micxln, blky, sft, rthy tex, no vis por
9050-9080 SH: dk gy-blk, sb blky, frm, rthy tex, sl calc, rr dsem & nodr pyr, rr cal frac fl & free cal
9080-9110 SH:
MD 8875
INC 91.40
AZM 340.70
TVD 7516.31
VS 1577.20
MD 8938
INC 92.70
AZM 342.00
TVD 7514.06
VS 1639.77
MD 9002
INC 92.40
AZM 342.10
TVD 7511.21
VS 1703.23
MD 9065
INC 92.30
AZM 341.50
TVD 7508.63
VS 1765.74
E
E

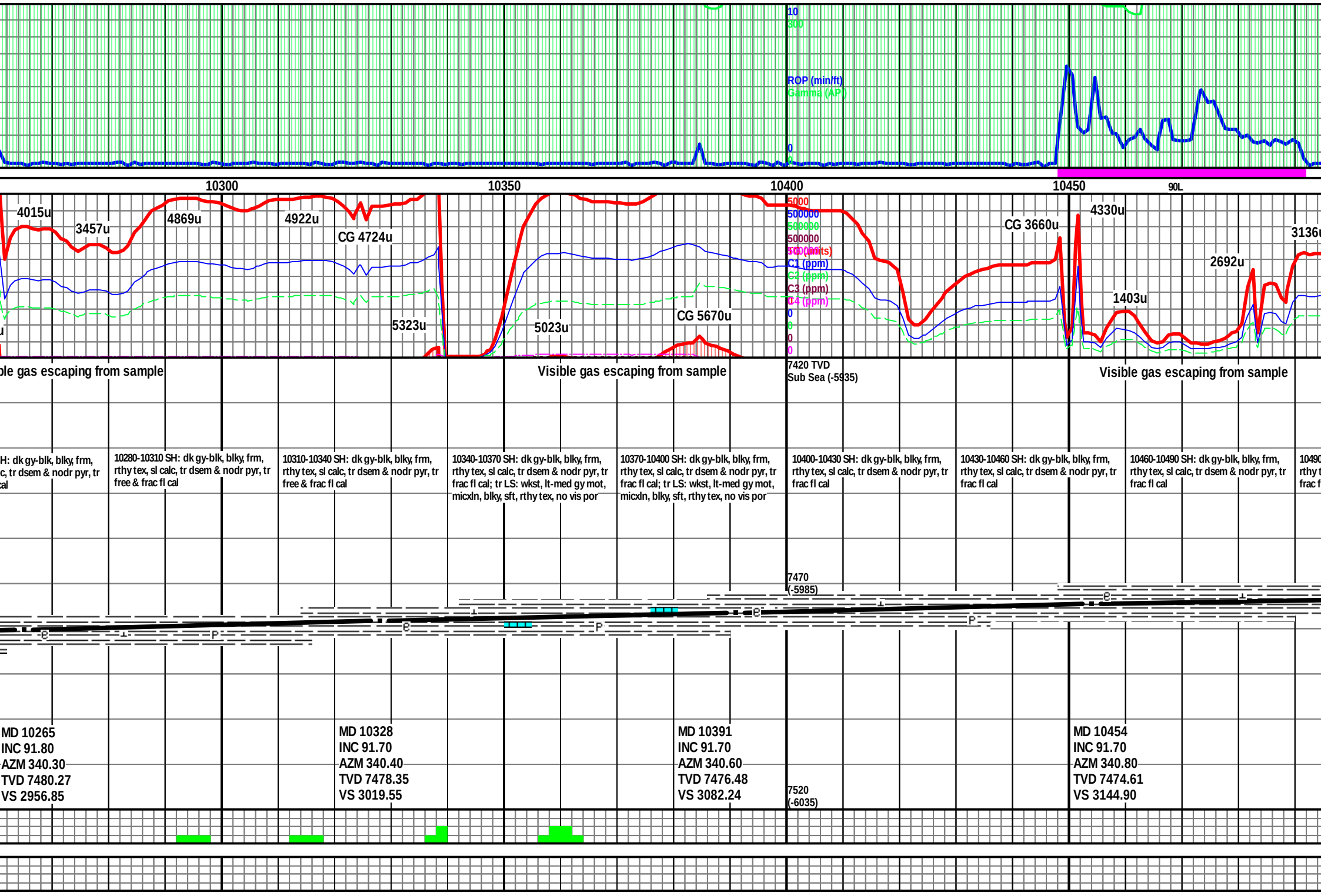

10
300
ROP (min/ft)
Gamma (API)
0
9100
160R
9150
9200
9250
9300
5000
500000
CG 2288u
3367u
CG 3217u
CG 3480u
CG 3764u
C1 (ppm)
C2 (ppm)
C3 (ppm)
0
Visible gas escaping from sample
7480 TVD
Sub Sea (-5995)
Visible gas escaping from sample
7530
(-6045)
7580
(-6095)
dk gy-blk, sb blky, frm, , rr dsem & nodr pyr, rr e cal
9110-9140 SH: dk gy-blk, sb blky, frm, rthy tex, sl calc, rr dsem & nodr pyr, rr cal frac fl & free cal; tr LS: mdst, med-dk gy mot, micxln, blky, sft, rthy tex, no vis por
9140-9170 SH: dk gy-blk, sb blky, frm, rthy tex, sl calc, rr dsem & nodr pyr, rr cal frac fl & free cal
9170-9200 SH: dk gy-blk, sb blky, frm, rthy tex, sl calc, rr dsem & nodr pyr, rr cal frac fl & free cal
9200-9230 SH: dk gy-blk, sb blky, frm, rthy tex, sl calc, rr dsem & nodr pyr, rr cal frac fl & free cal
9230-9260 SH: dk gy-blk, sb blky, frm, rthy tex, sl calc, rr dsem & nodr pyr, rr cal frac fl & free cal
9260-9290 SH: dk gy-blk, sb blky, frm, rthy tex, sl calc, rr dsem & nodr pyr, rr cal frac fl & free cal
9290-9320 SH: dk gy-blk, sb blky, frm, rthy tex, sl calc, rr dsem & nodr pyr, rr cal frac fl & free cal; tr LS: mdst, med-dk gy mot, micxln, blky, sft, rthy tex, no vis por
MD 9128
INC 91.40
AZM 341.60
TVD 7506.59
VS 1828.30
MD 9190
INC 91.00
AZM 341.80
TVD 7505.30
VS 1889.87
MD 9254
INC 90.90
AZM 341.20
TVD 7504.23
VS 1953.46
MD 9317
INC 91.40
AZM 342.60
TVD 7502.97
VS 2016.00

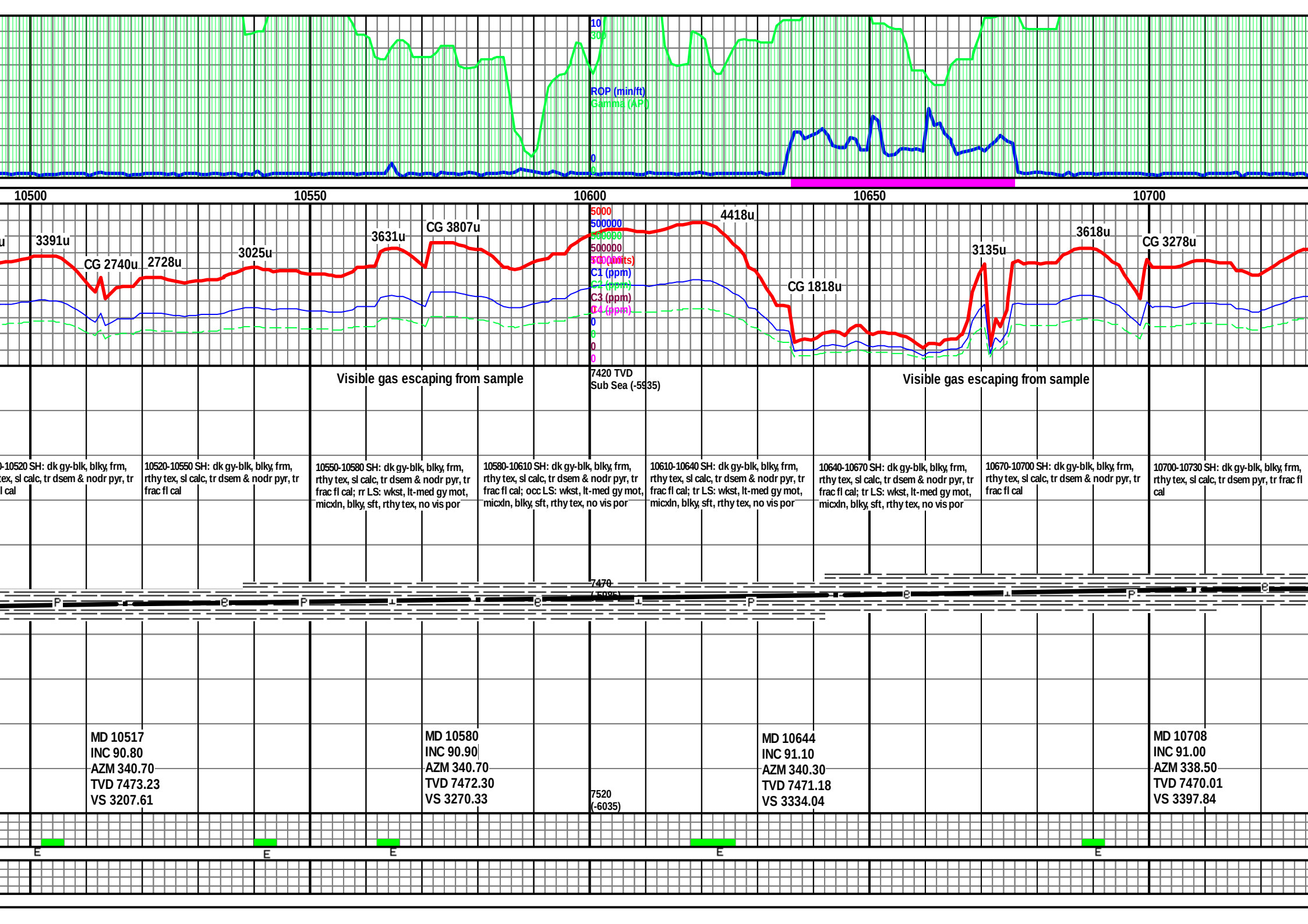

10
300
ROP (min/ft)
Gamma (API)
0
9350
9400
9450
90L
9500
9550
4156u
CG 3903u
CG 4341
4971u
CG 4421u
4703u
5000
500000
500000
500000
C1 (ppm)
C2 (ppm)
C3 (ppm)
C4 (ppm)
0
Visible gas escaping from sample
7480 TVD
Sub Sea (-5995)
Visible gas escaping from sample
Visib
7530
(-6045)
9350-9380 SH: dk gy-blk, sb blky, frm, rthy tex, sl calc, rr dsem & nodr pyr, rr cal frac fl & free cal; tr LS: mdst, med-dk gy mot, micxln, blky, sft, rthy tex, no vis por
9380-9410 SH: dk gy-blk, sb blky, frm, rthy tex, sl calc, rr dsem & nodr pyr, rr cal frac fl & free cal
9410-9440 SH: dk gy-blk, sb blky, frm, rthy tex, sl calc, rr dsem & nodr pyr, rr cal frac fl & free cal
9440-9470 SH: dk gy-blk, sb blky, frm, rthy tex, sl calc, rr dsem & nodr pyr, rr cal frac fl & free cal
9470-9500 SH: dk gy-blk, sb blky, frm, rthy tex, sl calc, rr dsem & nodr pyr, rr cal frac fl & free cal; tr LS: mdst, med-dk gy mot, micxln, blky, sft, rthy tex, no vis por
9500-9530 SH: dk gy-blk, sb blky, frm, rthy tex, sl calc, rr dsem & nodr pyr, rr cal frac fl & free cal; tr LS: mdst, med-dk gy mot, micxln, blky, sft, rthy tex, no vis por
9530-9560 SH: dk gy-blk, sb blky, frm, rthy tex, sl calc, rr dsem & nodr pyr, rr cal frac fl & free cal,
MD 9380
INC 91.70
AZM 343.90
TVD 7501.27
VS 2078.33
MD 9442
INC 91.20
AZM 343.00
TVD 7499.70
VS 2139.64
MD 9505
INC 91.20
AZM 343.80
TVD 7498.38
VS 2201.96
7580
(-6095)
E
E
E

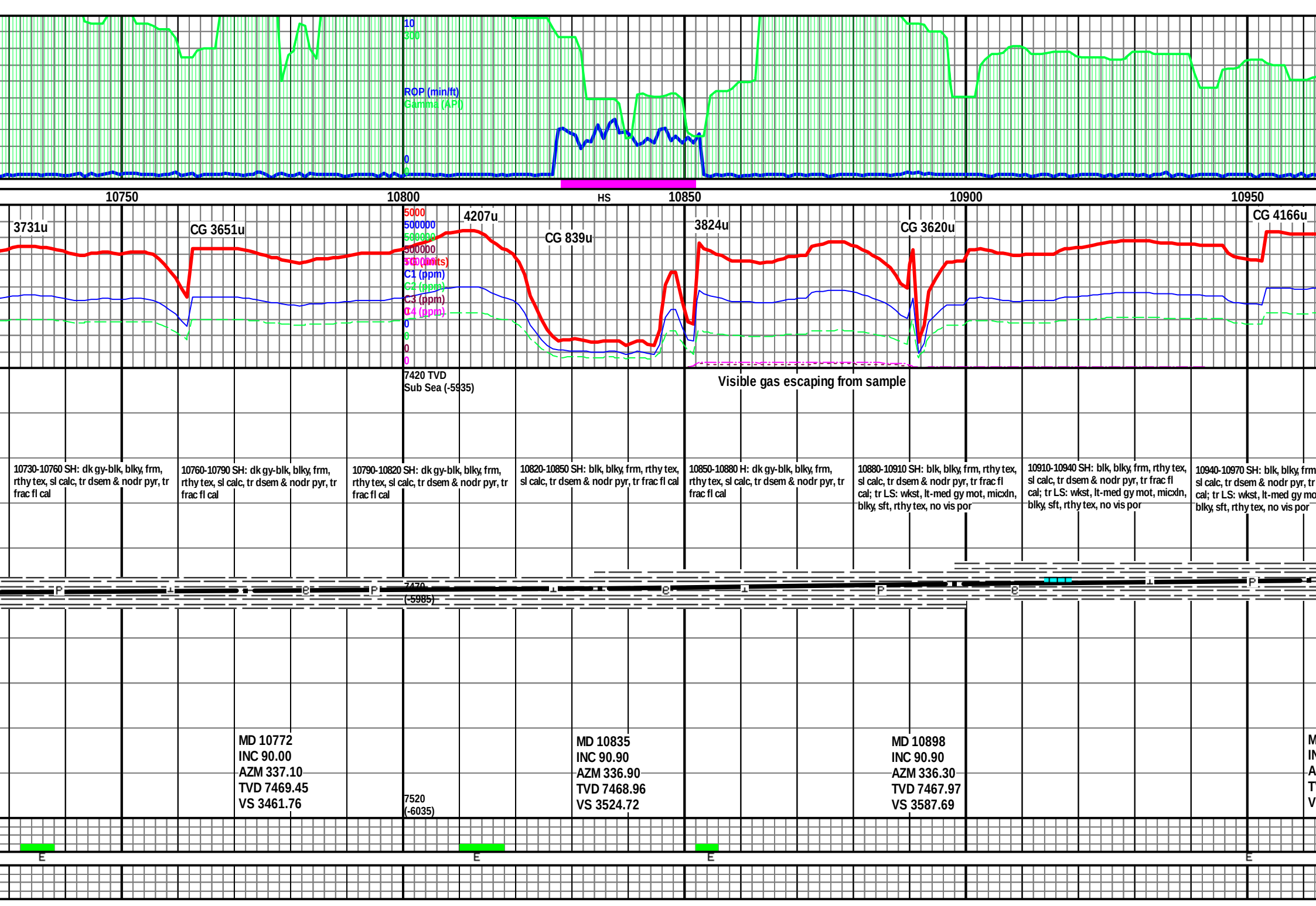

10
300
ROP (min/ft)
Gamma (API)
0
90L
9600
9650
45L
9700
9750
CG 3470u
4906u
4846u
CG 4355u
CG 2614u
CG 3517u
5000
500000
C1 (ppm)
C2 (ppm)
C3 (ppm)
C4 (ppm)
0
7480 TVD
Sub Sea (-5995)
Visible gas escaping from sample
Visible gas escaping from sample
Note: TVD
Scale Char
9590-9620 SH: dk gy-blk, sb blky, frm, rthy tex, sl calc, rr dsem & nodr pyr, rr cal frac fl & free cal,
9620-9650 SH: dk gy-blk, sb blky, frm, rthy tex, sl calc, rr dsem & nodr pyr, rr cal frac fl & free cal,
9650-9680 SH: dk gy-blk, sb blky, frm, rthy tex, sl calc, rr dsem & nodr pyr, rr cal frac fl & free cal,
9680-9710 SH: dk gy-blk, sb blky, frm, rthy tex, sl calc, rr dsem & nodr pyr, rr cal frac fl & free cal; rr LS: mdst, med-dk gy mot, micxln, blky, sft, rthy tex, no vis por
9710-9740 SH: dk gy-blk, sb blky, frm, rthy tex, sl calc, rr dsem & nodr pyr, rr cal frac fl & free cal; tr LS: mdst, med-dk gy mot, micxln, blky, sft, rthy tex, no vis por
9740-9770 SH: dk gy-blk, sb blky, frm, rthy tex, sl calc, rr dsem & nodr pyr, rr cal frac fl & free cal
9770-9800 SH: dk gy-blk, sb bl
rthy tex, sl calc, rr dsem & nod
cal frac fl & free cal
7530
(-6045)
7580
(-6095)
9560-9590 SH: dk gy-blk, sb blky, frm, rthy tex, sl calc, rr dsem & nodr pyr, rr cal frac fl & free cal,
MD 9568
INC 91.30
AZM 343.00
TVD 7497.00
VS 2264.28
MD 9632
INC 90.40
AZM 341.60
TVD 7496.05
VS 2327.76
MD 9694
INC 91.50
AZM 341.50
TVD 7495.03
VS 2389.35
MD 9758
INC 93.60
AZM 343.10
TVD 7492.18
VS 2452.77

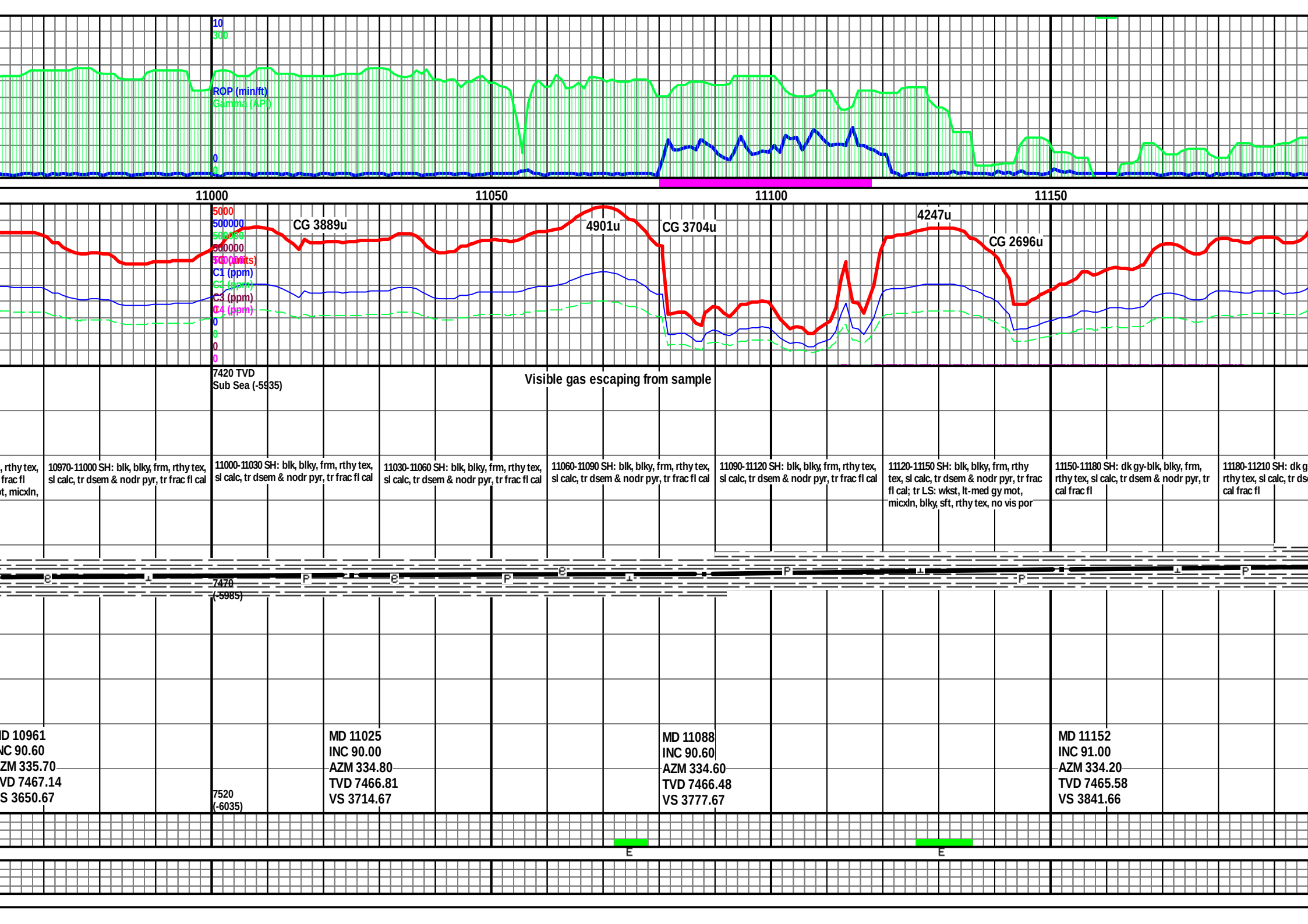

ROP (min/ft)
Gamma (API)
WOB(RT/OR) 26/19
RPM(RT/MM) 65/149 PP
2873
SPM(1/2) 111/105 GPM 515
21 June 2011
9800
9850
9900
9950
10000
120L
90L
40L
Wt 12.25
Vis 49
Pv/Yp 24/27
Sol 12.70
pH 9.90
Alk 0.70
Cl 145k
CG 2528u
4480u
CG 5011u
4292u
CG 3950u
4722u
4495u
3359u
C1 (ppm)
C2 (ppm)
C3 (ppm)
C4 (ppm)
7420 TVD
Sub Sea (-5935)
Visible gas escaping from sample
Visible gas escaping from sample
9800-9830 SH: dk gy-blk, sb blky, frm, rthy tex, sl calc, rr dsem & nodr pyr, rr cal frac fl & free cal
9830-9860 SH: dk gy-blk, sb blky, frm, rthy tex, sl calc, rr dsem & nodr pyr, rr cal frac fl & free cal
9860-9890 SH: dk gy-blk, sb blky, frm, rthy tex, sl calc, tr dsem & nodr pyr, tr cal frac fl
9890-9920 SH: dk gy-blk, sb blky, frm, rthy tex. sl calc, tr dsem & nodr pyr, tr cal frac fl
9920-9950 SH: dk gy-blk, blky, frm, rthy tex, sl calc, tr dsem & nodr pyr, tr cal frac fl & free cal
9950-9980 SH: dk gy-blk, blky, frm, rthy tex, calc, tr dsem & nodr pyr, tr cal frac fl; tr LS: wkst, lt-med gy mot, tr dk gy, micxln, blky, sft, rthy tex, no vis por
9980-10010 SH: dk gy-blk, blky, frm, rthy tex, calc, tr dsem & nodr pyr, tr cal frac fl; com LS: wkst, lt-med gy mot, tr dk gy, micxln, blky, sft, rthy tex, no vis por
10010-10040 SH: dk gy
frm, rthy tex, sl calc, tr
pyr, tr cal frac fl; occ L
gy mot, micxln, blky, s
vis por
Scale Change
7470
(-5985)
7520
(-6035)
MD 9820
INC 92.00
AZM 342.10
TVD 7489.15
VS 2514.15
MD 9884
INC 90.40
AZM 340.90
TVD 7487.81
VS 2577.73
MD 9947
INC 90.30
AZM 340.10
TVD 7487.42
VS 2640.45
MD 10011
INC 92.30
AZM 341.20
TVD 7485.97
VS 2704.12

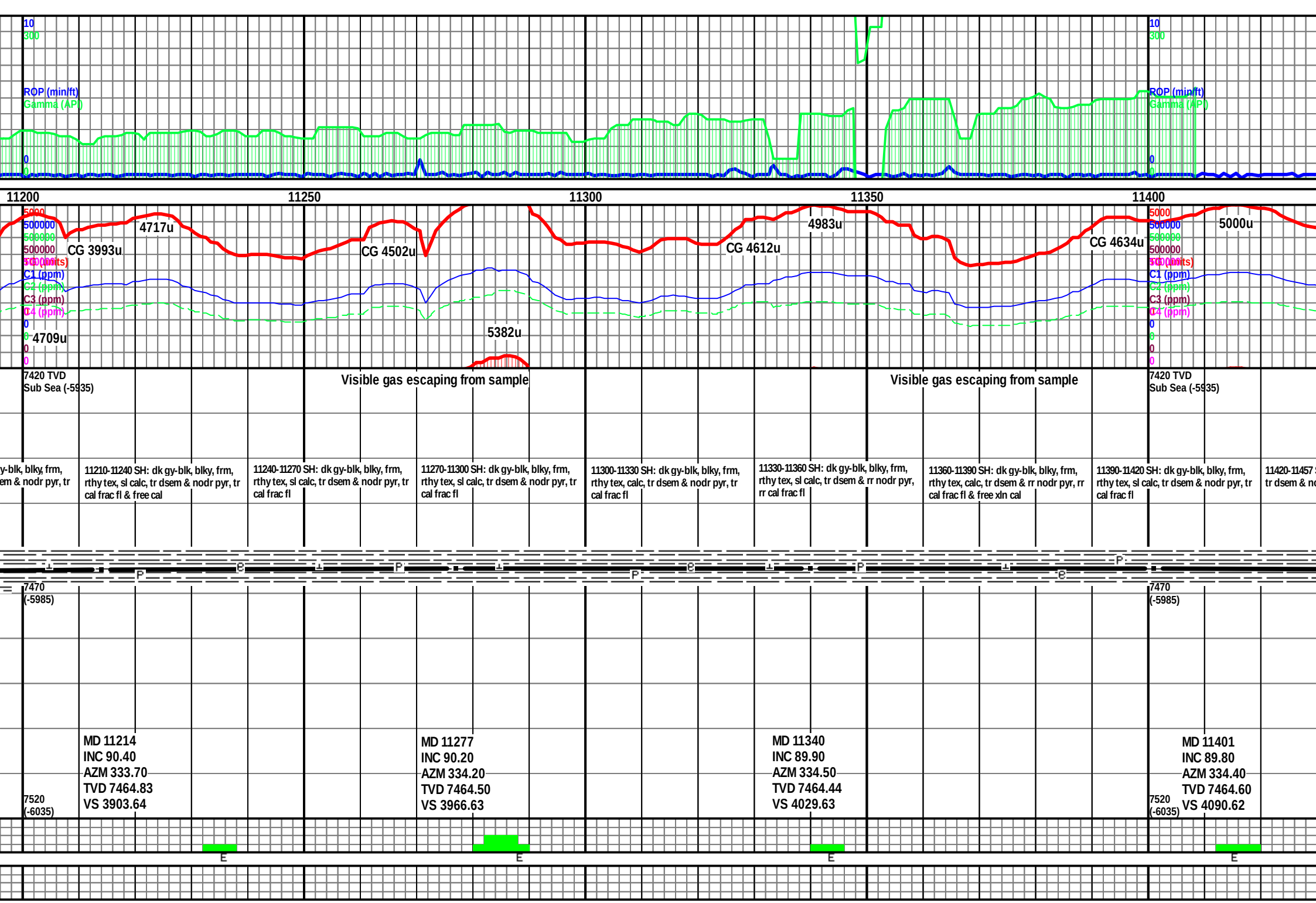

10
300
ROP (m/hr)
Gamma (API)
0
0
10050
90L
10100
10150
10200
30-45L
10250
5000
500000
500000
500000
C1 (ppm)
C2 (ppm)
C3 (ppm)
C4 (ppm)
0
0
0
0
5054u
CG 1589u
4437u
4494u
4610u
CG 4172u
5224u
3735u
CG 1487u
3869u
4569u
CG 5367u
Visible gas escaping from sample
Visible gas escaping from sample
7420 TVD
Sub Sea (-5935)
7470
(-5985)
7520
(-6035)
10040-10070 SH: dk gy-blk, blky, frm, rthy tex, sl calc, tr dsem & nodr pyr, tr cal frac fl; tr LS: wkst, lt-med gy mot, micxln, blky, sft, rthy tex, no vis por
10070-10100 SH: dk gy-blk, blky, frm, rthy tex, sl calc, tr dsem & nodr pyr, tr cal frac fl; tr LS: wkst, lt-med gy mot, micxln, blky, sft, rthy tex, no vis por
10100-10130 SH: dk gy-blk, blky, frm, rthy tex, sl calc, tr dsem & nodr pyr, tr cal frac fl; tr LS: wkst, lt-med gy mot, micxln, blky, sft, rthy tex, no vis por
10130-10160 SH: dk gy-blk, blky, frm, rthy tex, sl calc, tr dsem & nodr pyr, tr cal frac fl; tr LS: wkst, lt-med gy mot, micxln, blky, sft, rthy tex, no vis por
10160-10190 SH: dk gy-blk, blky, frm, rthy tex, sl calc, tr dsem & nodr pyr, tr cal frac fl; tr LS: wkst, lt-med gy mot, micxln, blky, sft, rthy tex, no vis por
10190-10220 SH: dk gy-blk, blky, frm, rthy tex, sl calc, tr dsem & nodr pyr, tr cal frac fl; occ LS: wkst, lt-med gy mot, micxln, blky, sft, rthy tex, no vis por
10220-10250 SH: dk gy-blk, blky, frm, rthy tex, sl calc, tr dsem & nodr pyr, tr cal frac fl
MD 10074
INC 91.50
AZM 341.20
TVD 7483.88
VS 2766.75
MD 10137
INC 90.30
AZM 340.20
TVD 7482.89
VS 2829.46
MD 10201
INC 91.30
AZM 340.80
TVD 7482.00
VS 2893.17

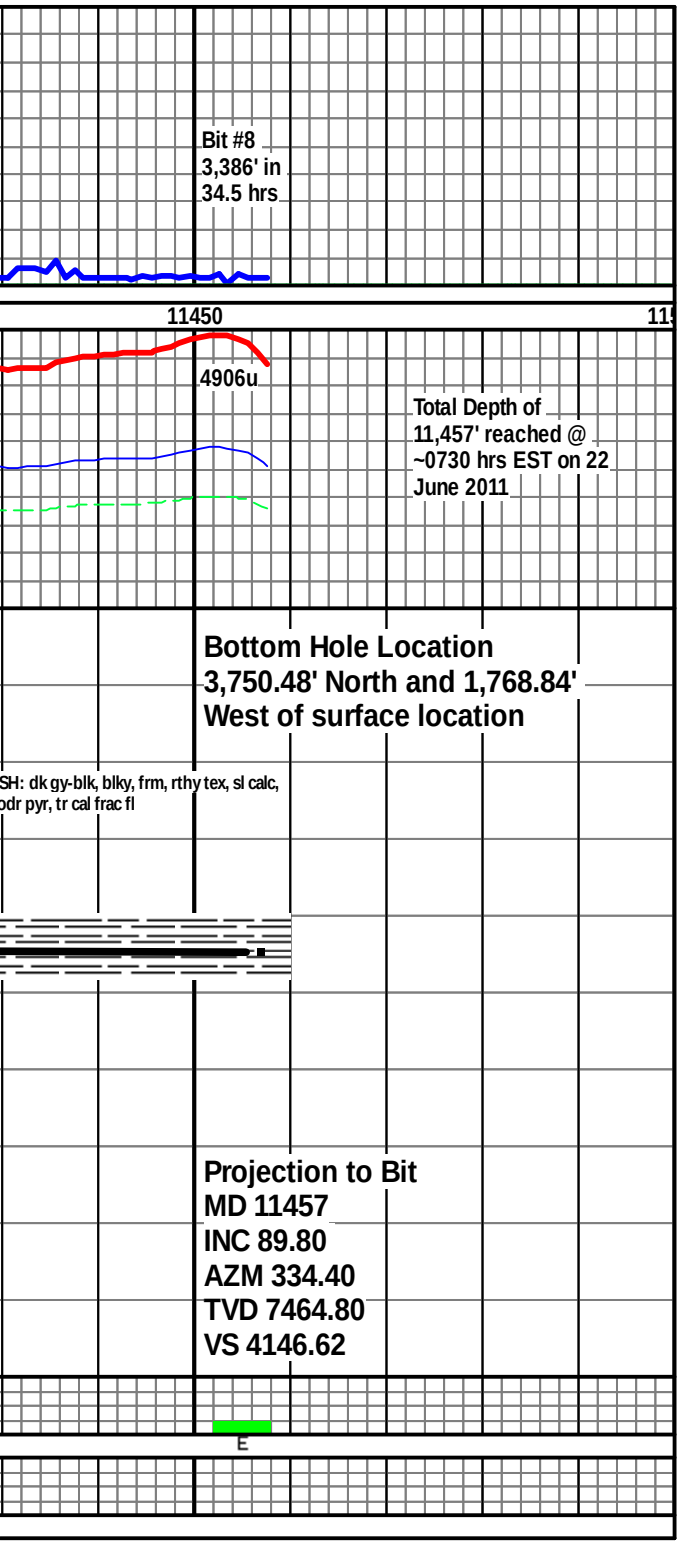

10
300
ROP (min/ft)
Gamma (API)
0
10300
10350
10400
10450
90L
4015u
3457u
4869u
4922u
CG 4724u
5323u
5023u
CG 5670u
CG 3660u
4330u
1403u
2692u
3136u
5000
500000
C1 (ppm)
C2 (ppm)
C3 (ppm)
C4 (ppm)
7420 TVD
Sub Sea (-5935)
Visible gas escaping from sample
Visible gas escaping from sample
Visible gas escaping from sample
10280-10310 SH: dk gy-blk, blky, frm, rthy tex, sl calc, tr dsem & nodr pyr, tr free & frac fl cal
10310-10340 SH: dk gy-blk, blky, frm, rthy tex, sl calc, tr dsem & nodr pyr, tr free & frac fl cal
10340-10370 SH: dk gy-blk, blky, frm, rthy tex, sl calc, tr dsem & nodr pyr, tr frac fl cal; tr LS: wkst, lt-med gy mot, micxln, blky, sft, rthy tex, no vis por
10370-10400 SH: dk gy-blk, blky, frm, rthy tex, sl calc, tr dsem & nodr pyr, tr frac fl cal; tr LS: wkst, lt-med gy mot, micxln, blky, sft, rthy tex, no vis por
10400-10430 SH: dk gy-blk, blky, frm, rthy tex, sl calc, tr dsem & nodr pyr, tr frac fl cal
10430-10460 SH: dk gy-blk, blky, frm, rthy tex, sl calc, tr dsem & nodr pyr, tr frac fl cal
10460-10490 SH: dk gy-blk, blky, frm, rthy tex, sl calc, tr dsem & nodr pyr, tr frac fl cal
7470
(-5985)
7520
(-6035)
MD 10265
INC 91.80
AZM 340.30
TVD 7480.27
VS 2956.85
MD 10328
INC 91.70
AZM 340.40
TVD 7478.35
VS 3019.55
MD 10391
INC 91.70
AZM 340.60
TVD 7476.48
VS 3082.24
MD 10454
INC 91.70
AZM 340.80
TVD 7474.61
VS 3144.90


ROP (min/ft)
Gamma (API)
10500
10550
10600
10650
10700
3391u
CG 2740u
2728u
3025u
3631u
CG 3807u
4418u
CG 1818u
3135u
3618u
CG 3278u
C1 (ppm)
C3 (ppm)
Visible gas escaping from sample
Visible gas escaping from sample
7420 TVD
Sub Sea (-5935)
10520 SH: dk gy-blk, blky, frm,
10520-10550 SH: dk gy-blk, blky, frm, rthy tex, sl calc, tr dsem & nodr pyr, tr frac fl cal
10550-10580 SH: dk gy-blk, blky, frm, rthy tex, sl calc, tr dsem & nodr pyr, tr frac fl cal; rr LS: wkst, lt-med gy mot, micxln, blky, sft, rthy tex, no vis por
10580-10610 SH: dk gy-blk, blky, frm, rthy tex, sl calc, tr dsem & nodr pyr, tr frac fl cal; occ LS: wkst, lt-med gy mot, micxln, blky, sft, rthy tex, no vis por
10610-10640 SH: dk gy-blk, blky, frm, rthy tex, sl calc, tr dsem & nodr pyr, tr frac fl cal; tr LS: wkst, lt-med gy mot, micxln, blky, sft, rthy tex, no vis por
10640-10670 SH: dk gy-blk, blky, frm, rthy tex, sl calc, tr dsem & nodr pyr, tr frac fl cal; tr LS: wkst, lt-med gy mot, micxln, blky, sft, rthy tex, no vis por
10670-10700 SH: dk gy-blk, blky, frm, rthy tex, sl calc, tr dsem & nodr pyr, tr frac fl cal
10700-10730 SH: dk gy-blk, blky, frm, rthy tex, sl calc, tr dsem pyr, tr frac fl cal
7470
7520
(-6035)
MD 10517
INC 90.80
AZM 340.70
TVD 7473.23
VS 3207.61
MD 10580
INC 90.90
AZM 340.70
TVD 7472.30
VS 3270.33
MD 10644
INC 91.10
AZM 340.30
TVD 7471.18
VS 3334.04
MD 10708
INC 91.00
AZM 338.50
TVD 7470.01
VS 3397.84


10
300
ROP (min/ft)
Gamma (API)
0
10750
10800
HS
10850
10900
10950
3731u
CG 3651u
4207u
CG 839u
3824u
CG 3620u
CG 4166u
5000
500000
C1 (ppm)
C2 (ppm)
C3 (ppm)
C4 (ppm)
0
7420 TVD
Sub Sea (-5935)
Visible gas escaping from sample
10730-10760 SH: dk gy-blk, blky, frm, rthy tex, sl calc, tr dsem & nodr pyr, tr frac fl cal
10760-10790 SH: dk gy-blk, blky, frm, rthy tex, sl calc, tr dsem & nodr pyr, tr frac fl cal
10790-10820 SH: dk gy-blk, blky, frm, rthy tex, sl calc, tr dsem & nodr pyr, tr frac fl cal
10820-10850 SH: blk, blky, frm, rthy tex, sl calc, tr dsem & nodr pyr, tr frac fl cal
10850-10880 H: dk gy-blk, blky, frm, rthy tex, sl calc, tr dsem & nodr pyr, tr frac fl cal
10880-10910 SH: blk, blky, frm, rthy tex, sl calc, tr dsem & nodr pyr, tr frac fl cal; tr LS: wkst, lt-med gy mot, micxln, blky, sft, rthy tex, no vis por
10910-10940 SH: blk, blky, frm, rthy tex, sl calc, tr dsem & nodr pyr, tr frac fl cal; tr LS: wkst, lt-med gy mot, micxln, blky, sft, rthy tex, no vis por
10940-10970 SH: blk, blky, frm sl calc, tr dsem & nodr pyr, tr cal; tr LS: wkst, lt-med gy mo blky, sft, rthy tex, no vis por
7470
(-5985)
MD 10772
INC 90.00
AZM 337.10
TVD 7469.45
VS 3461.76
7520
(-6035)
MD 10835
INC 90.90
AZM 336.90
TVD 7468.96
VS 3524.72
MD 10898
INC 90.90
AZM 336.30
TVD 7467.97
VS 3587.69


10
300
ROP (min/ft)
Gamma (API)
0
0
11000
11050
11100
11150
5000
500000
500000
500000
500000 (units)
C1 (ppm)
C2 (ppm)
C3 (ppm)
C4 (ppm)
0
0
0
0
CG 3889u
4901u
CG 3704u
4247u
CG 2696u
7420 TVD
Sub Sea (-5935)
Visible gas escaping from sample
, rthy tex,
frac fl
t, micxln,
10970-11000 SH: blk, blky, frm, rthy tex, sl calc, tr dsem & nodr pyr, tr frac fl cal
11000-11030 SH: blk, blky, frm, rthy tex, sl calc, tr dsem & nodr pyr, tr frac fl cal
11030-11060 SH: blk, blky, frm, rthy tex, sl calc, tr dsem & nodr pyr, tr frac fl cal
11060-11090 SH: blk, blky, frm, rthy tex, sl calc, tr dsem & nodr pyr, tr frac fl cal
11090-11120 SH: blk, blky, frm, rthy tex, sl calc, tr dsem & nodr pyr, tr frac fl cal
11120-11150 SH: blk, blky, frm, rthy tex, sl calc, tr dsem & nodr pyr, tr frac fl cal; tr LS: wkst, lt-med gy mot, micxln, blky, sft, rthy tex, no vis por
11150-11180 SH: dk gy-blk, blky, frm, rthy tex, sl calc, tr dsem & nodr pyr, tr cal frac fl
11180-11210 SH: dk g
rthy tex, sl calc, tr ds
cal frac fl
7470
(-5985)
ID 10961
NC 90.60
ZM 335.70
VD 7467.14
S 3650.67
MD 11025
INC 90.00
AZM 334.80
TVD 7466.81
VS 3714.67
MD 11088
INC 90.60
AZM 334.60
TVD 7466.48
VS 3777.67
MD 11152
INC 91.00
AZM 334.20
TVD 7465.58
VS 3841.66
7520
(-6035)
E
E


10
300
ROP (min/ft)
Gamma (API)
0
0
11200
11250
11300
11350
11400
5000
500000
C1 (ppm)
C2 (ppm)
C3 (ppm)
C4 (ppm)
CG 3993u
4717u
4709u
CG 4502u
5382u
CG 4612u
4983u
CG 4634u
5000u
7420 TVD
Sub Sea (-5935)
Visible gas escaping from sample
Visible gas escaping from sample
11210-11240 SH: dk gy-blk, blky, frm, rthy tex, sl calc, tr dsem & nodr pyr, tr cal frac fl & free cal
11240-11270 SH: dk gy-blk, blky, frm, rthy tex, sl calc, tr dsem & nodr pyr, tr cal frac fl
11270-11300 SH: dk gy-blk, blky, frm, rthy tex, sl calc, tr dsem & nodr pyr, tr cal frac fl
11300-11330 SH: dk gy-blk, blky, frm, rthy tex, calc, tr dsem & nodr pyr, tr cal frac fl
11330-11360 SH: dk gy-blk, blky, frm, rthy tex, sl calc, tr dsem & rr nodr pyr, rr cal frac fl
11360-11390 SH: dk gy-blk, blky, frm, rthy tex, calc, tr dsem & rr nodr pyr, rr cal frac fl & free xln cal
11390-11420 SH: dk gy-blk, blky, frm, rthy tex, sl calc, tr dsem & nodr pyr, tr cal frac fl
7470
(-5985)
MD 11214
INC 90.40
AZM 333.70
TVD 7464.83
VS 3903.64
MD 11277
INC 90.20
AZM 334.20
TVD 7464.50
VS 3966.63
MD 11340
INC 89.90
AZM 334.50
TVD 7464.44
VS 4029.63
MD 11401
INC 89.80
AZM 334.40
TVD 7464.60
VS 4090.62
7520
(-6035)


Bit #8
3,386' in
34.5 hrs
11450
4906u
Total Depth of
11,457' reached @
~0730 hrs EST on 22
June 2011
Bottom Hole Location
3,750.48' North and 1,768.84'
West of surface location
SH: dk gy-blk, blky, frm, rthy tex, sl calc,
odr pyr, tr cal frac fl
Projection to Bit
MD 11457
INC 89.80
AZM 334.40
TVD 7464.80
VS 4146.62
E