Scale 1:200 Imperial
Measured Depth Log

Well Name:	**Benson Farms 23C-19HZ**		
Location:	**Weld County, CO.**		
License Number:	**05123393940000**	**Region:**	**DJ Basin**
Spud Date:	**06/22/14**	**Drilling Completed:**	**6/28/14**
Surface Coordinates:	**2045'FSL & 50'FWL, SEC.24, T3N-R68W**		
Bottom Hole Coordinates:	**1730'FSL & 2071'FWL, SEC.19, T3N-R68W**		
Ground Elevation (ft):	**4973'**	**K.B. Elevation (ft):**	**4989'**
Logged Interval (ft):	**7250' To: 14517'**	**Total Depth (ft):**	**14517'**
Formation:	**Codell**		
Type of Drilling Fluid:	**Water Base Mud**		

Printed by HORIZONTAL.LOG from WellSight Systems 1-800-447-1534 www.WellSight.com

OPERATOR

Company: **Anadarko Petroleum Corporation**
Address: **Granite Tower**
1099 18th St., Suite 1800
Denver, CO 80202

GEOLOGIST

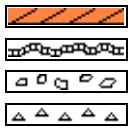
Name: Scott Crozier / Ben Thompson
Company: Great Divide Consulting, Inc.
Address: P.O. Box 630263
Highlands Ranch, CO 80163

Cores

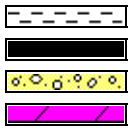
DSTs

Comments

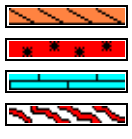
ROCK TYPES



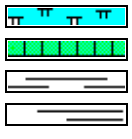
Anhy
Bent
Brec
Cht



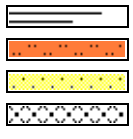
Clyst
Coal
Congl
Dol



Gyp
Igne
Lmst
Meta



Mrlst
Salt
Shale
Shcol



Shgy
Sltst
Ss
Till

ACCESSORIES

MINERAL

Anhy
Arggrn
Arg
Bent
Bit
Brecfrag
Calc
Carb
Chtdk
Chtlt
Dol
Feldspar
Ferrpel
Ferr
Glau

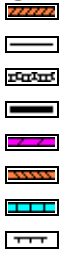
Gyp
Hvymin
Kaol
Marl
Minxl
Nodule
Phos
Pyr
Salt
Sandy
Silt
Sil
Sulphur
Tuff

FOSSIL

Algae
Amph
Belm
Bioclst
Brach
Bryozoa
Cephal
Coral
Crin
Echin
Fish
Foram
Fossil
Gastro
Oolite

Ostra
Pelec
Pellet
Pisolite
Plant
Strom

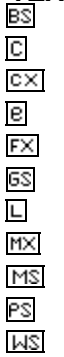
STRINGER



Anhy
Arg
Bent
Coal
Dol
Gyp
Ls
Mrst

Sltstrg
Ssstrg

TEXTURE



Boundst
Chalky
Cryxln
Earthy
Finexln
Grainst
Lithogr
Microxln
Mudst
Packst
Wackest

OTHER SYMBOLS

POROSITY
- Earthy
- Fenest
- Fracture
- Inter
- Moldic
- Organic
- Pinpoint
- Vuggy

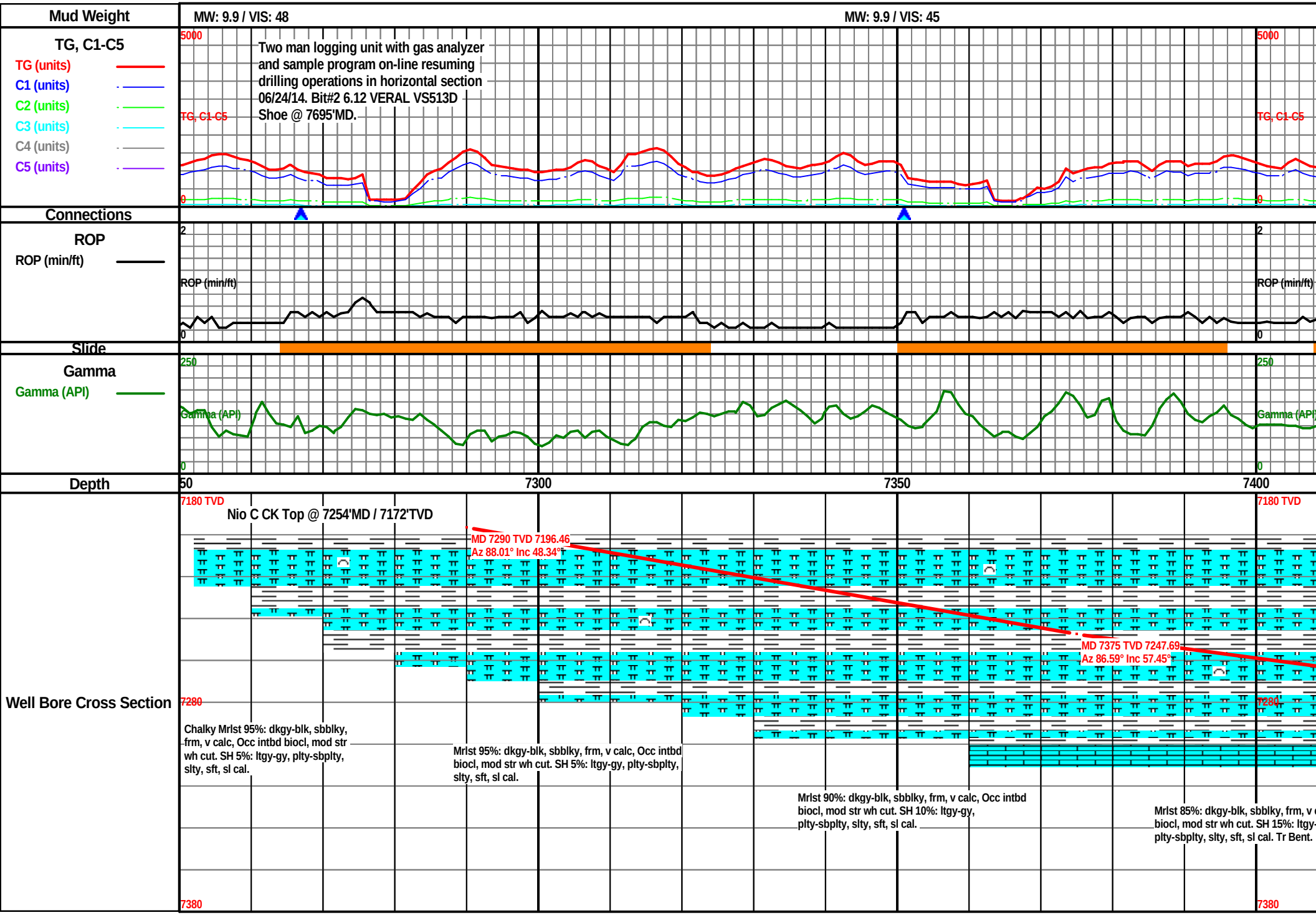
SORTING
- Well
- Moderate
- Poor

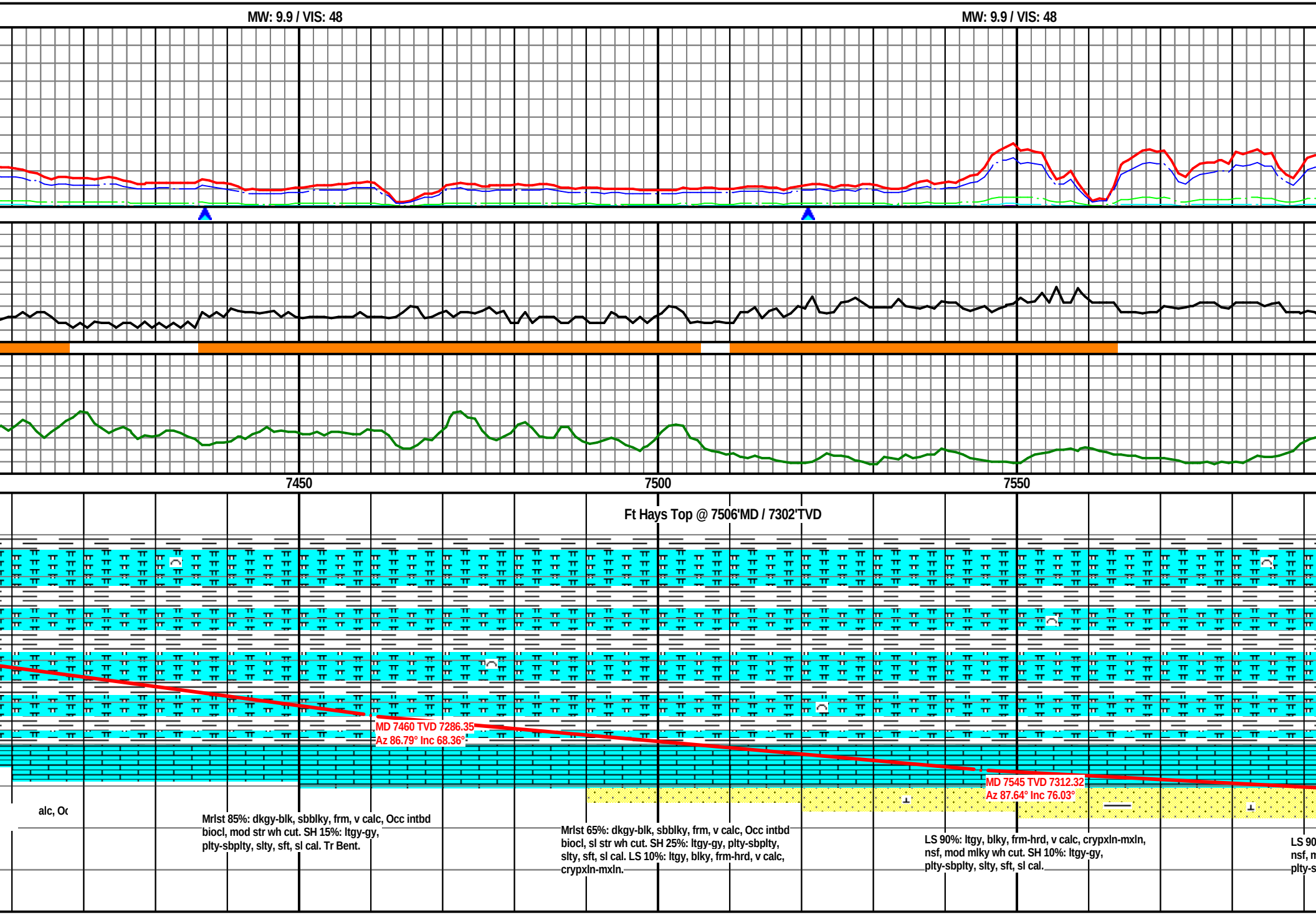
ROUNDING
- Rounded
- Subrnd
- Subang
- Angular

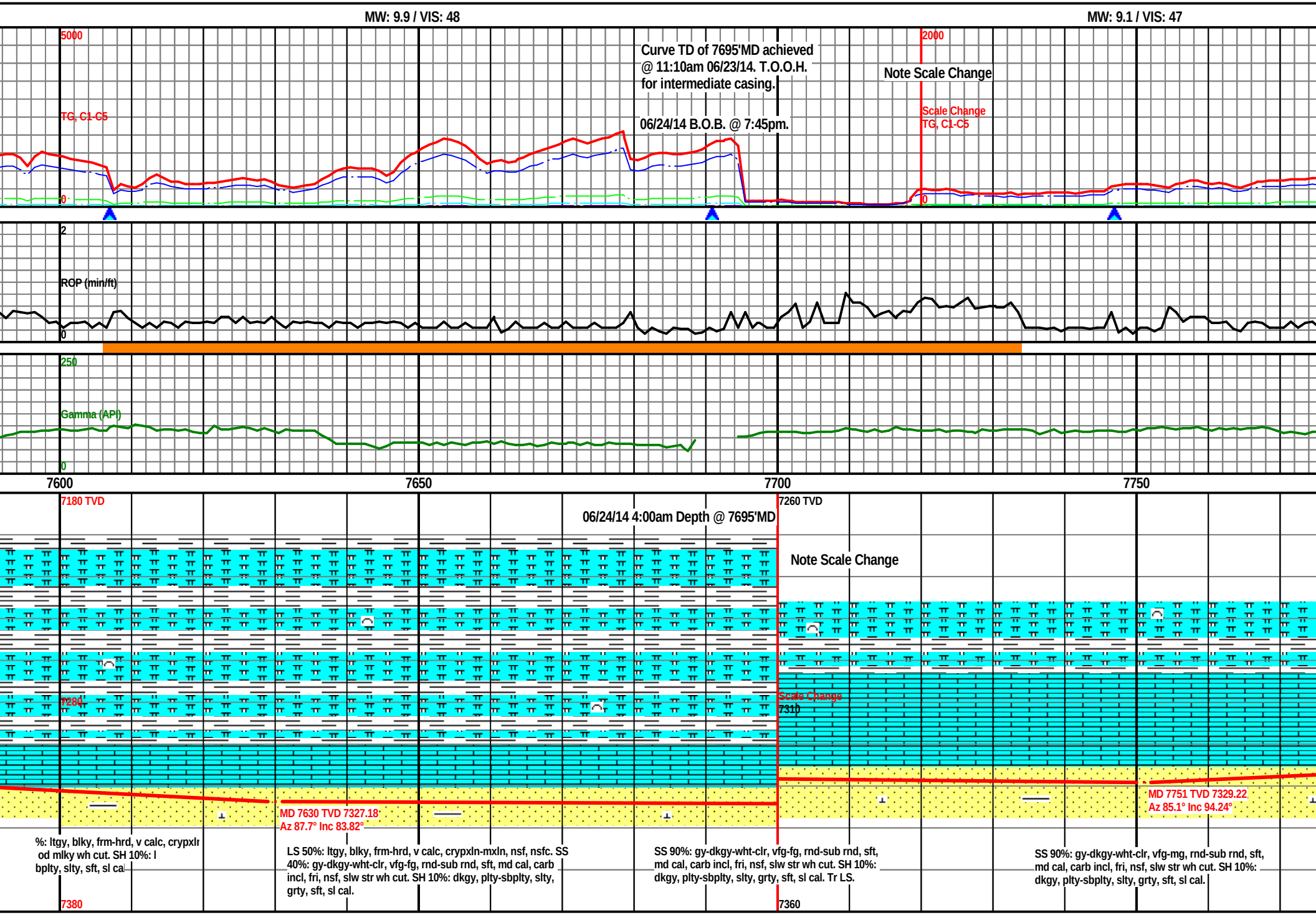
OIL SHOW
- Even
- Spotted
- Ques
- Dead

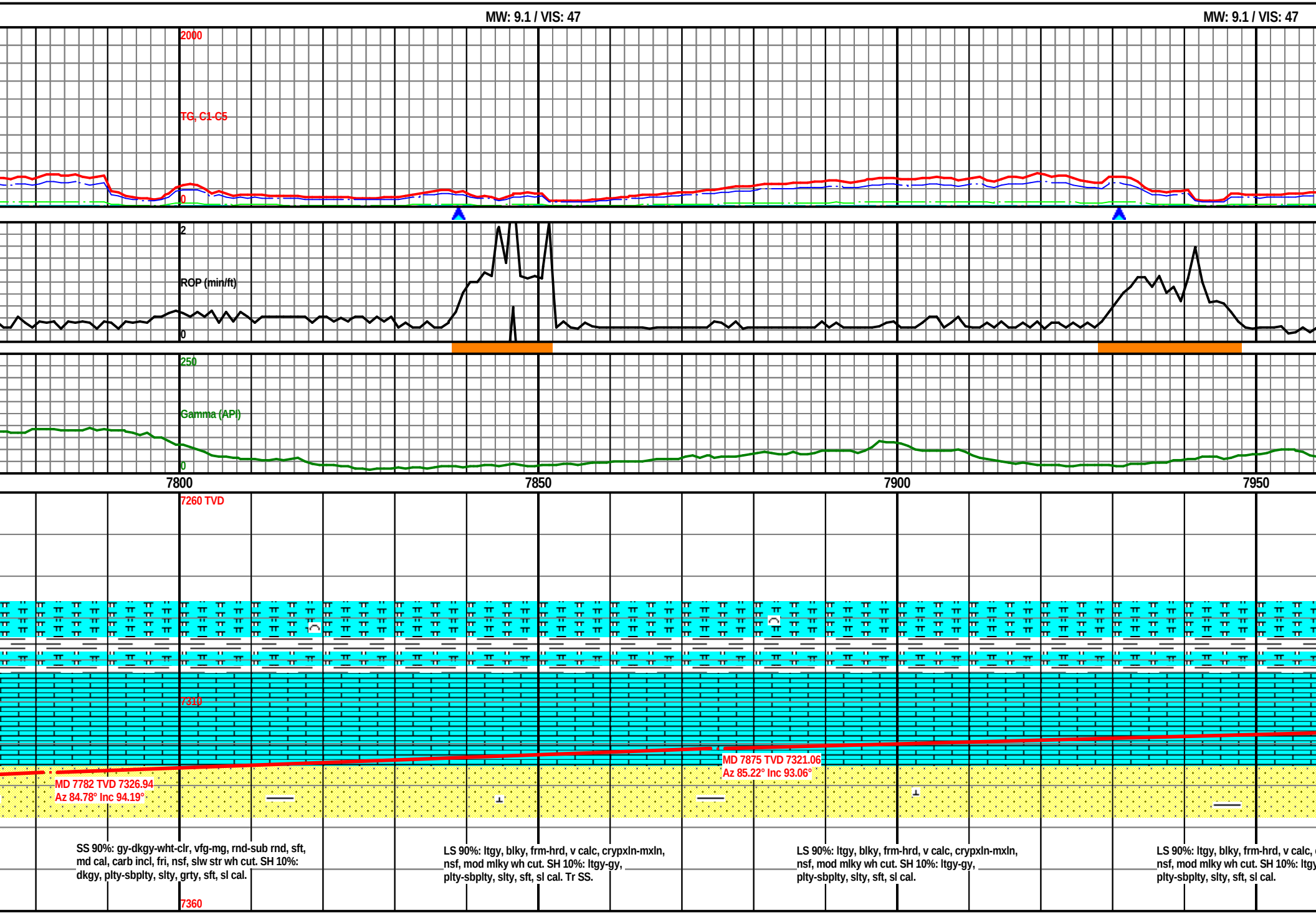
INTERVAL
- Core
- Dst

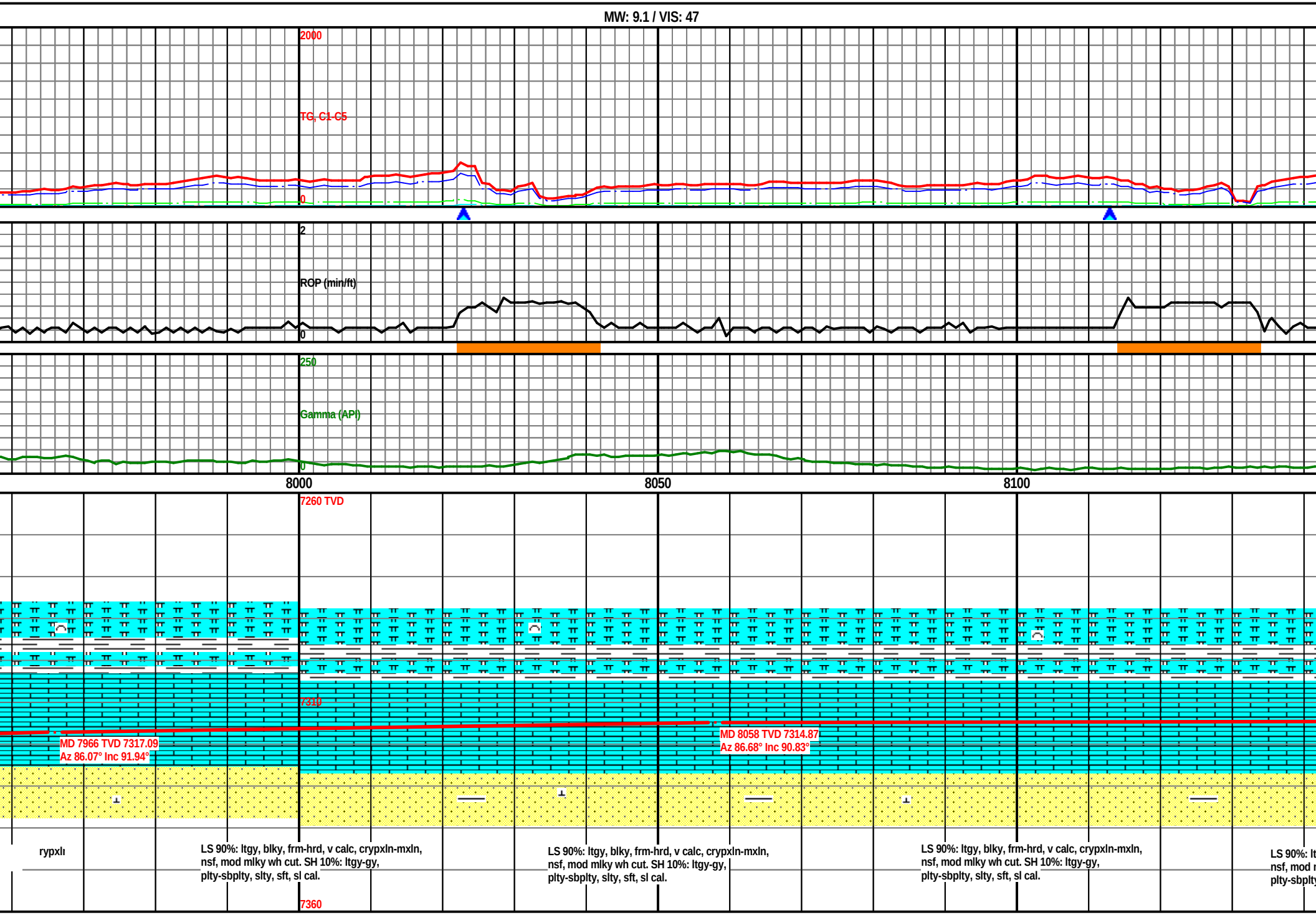
EVENT
- Rft
- Connection

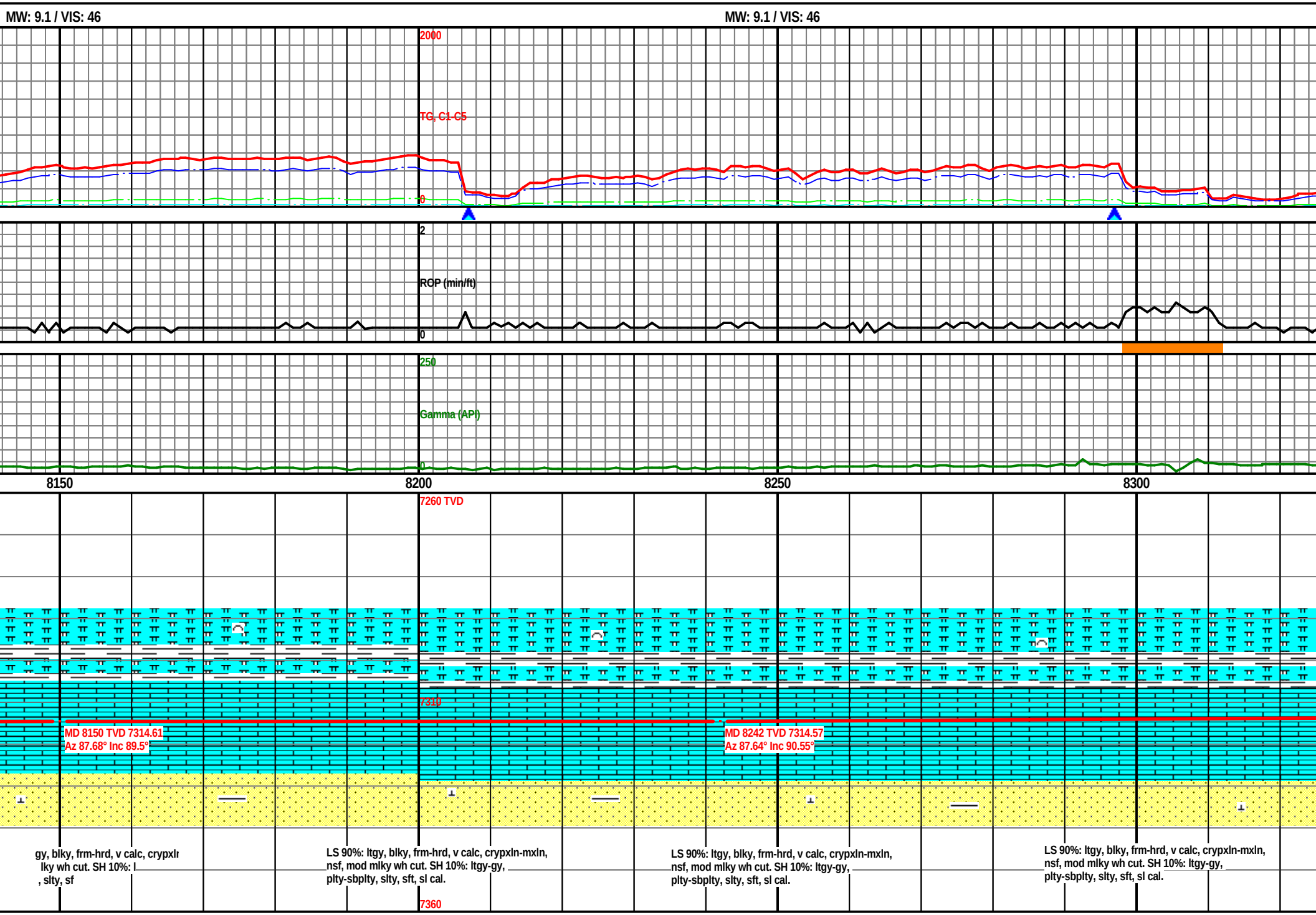

Mud Weight
MW: 9.9 / VIS: 48
MW: 9.9 / VIS: 45
TG, C1-C5
TG (units)
C1 (units)
C2 (units)
C3 (units)
C4 (units)
C5 (units)
5000
0
Two man logging unit with gas analyzer and sample program on-line resuming drilling operations in horizontal section 06/24/14. Bit#2 6.12 VERAL VS513D Shoe @ 7695'MD.
Connections
ROP
ROP (min/ft)
2
0
Slide
Gamma
Gamma (API)
250
0
Depth
50
7300
7350
7400
Well Bore Cross Section
7180 TVD
Nio C CK Top @ 7254'MD / 7172'TVD
MD 7290 TVD 7196.46
Az 88.01° Inc 48.34°
MD 7375 TVD 7247.69
Az 86.59° Inc 57.45°
7280
7380
Chalky Mrlst 95%: dkgy-blk, sbblky, frm, v calc, Occ intbd biocl, mod str wh cut. SH 5%: ltgy-gy, plty-sbplty, slty, sft, sl cal.
Mrlst 95%: dkgy-blk, sbblky, frm, v calc, Occ intbd biocl, mod str wh cut. SH 5%: ltgy-gy, plty-sbplty, slty, sft, sl cal.
Mrlst 90%: dkgy-blk, sbblky, frm, v calc, Occ intbd biocl, mod str wh cut. SH 10%: ltgy-gy, plty-sbplty, slty, sft, sl cal.
Mrlst 85%: dkgy-blk, sbblky, frm, v
biocl, mod str wh cut. SH 15%: ltgy-
plty-sbplty, slty, sft, sl cal. Tr Bent.

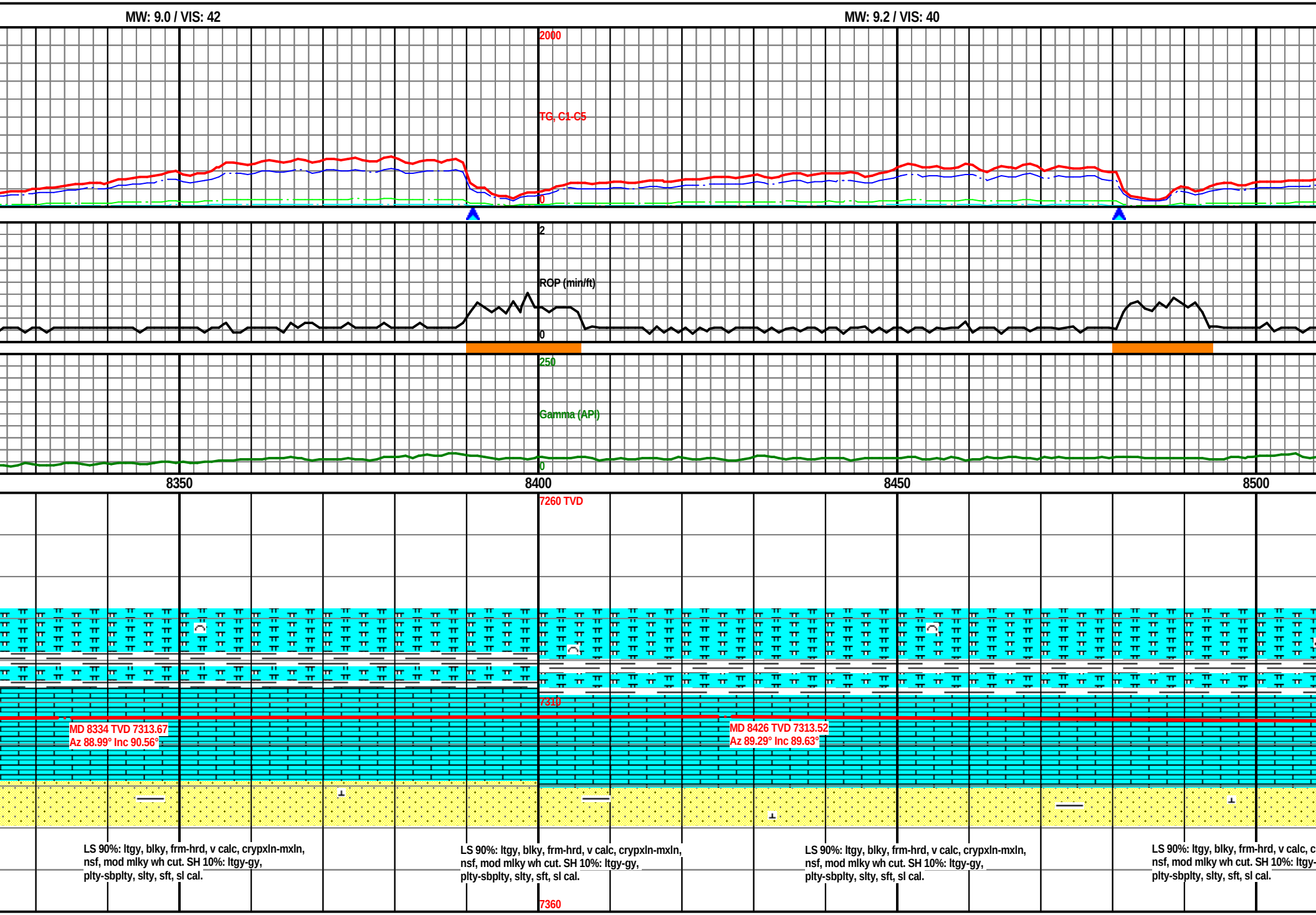

MW: 9.9 / VIS: 48
MW: 9.9 / VIS: 48
7450
7500
7550
Ft Hays Top @ 7506'MD / 7302'TVD
MD 7460 TVD 7286.35
Az 86.79° Inc 68.36°
MD 7545 TVD 7312.32
Az 87.64° Inc 76.03°
alc, Oc
Mrlst 85%: dkgy-blk, sbblky, frm, v calc, Occ intbd biocl, mod str wh cut. SH 15%: ltgy-gy, plty-sbplty, slty, sft, sl cal. Tr Bent.
Mrlst 65%: dkgy-blk, sbblky, frm, v calc, Occ intbd biocl, sl str wh cut. SH 25%: ltgy-gy, plty-sbplty, slty, sft, sl cal. LS 10%: ltgy, blky, frm-hrd, v calc, crypxln-mxln.
LS 90%: ltgy, blky, frm-hrd, v calc, crypxln-mxln, nsf, mod mlky wh cut. SH 10%: ltgy-gy, plty-sbplty, slty, sft, sl cal.

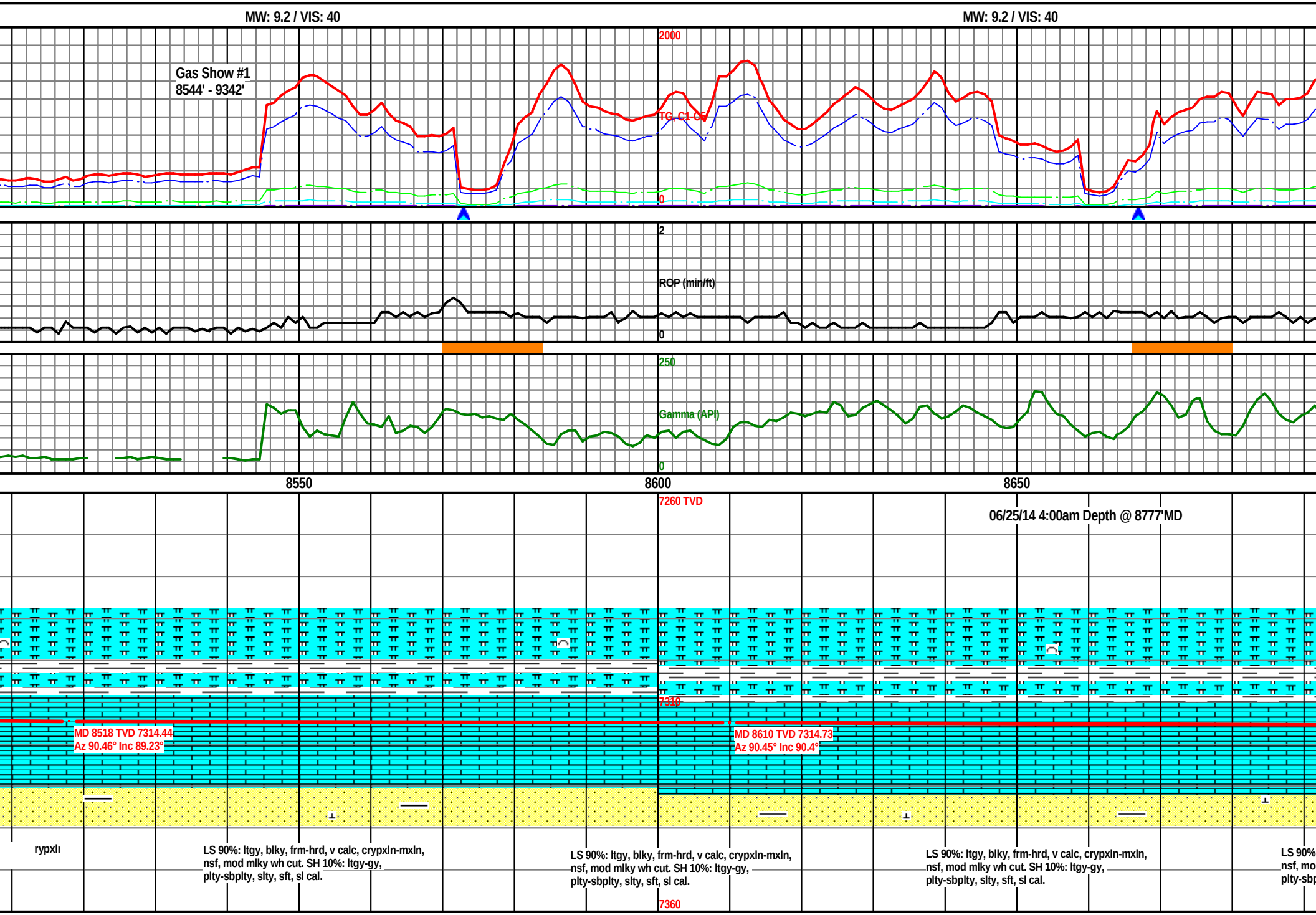

MW: 9.9 / VIS: 48
MW: 9.1 / VIS: 47
5000
TG, C1-C5
0
Curve TD of 7695'MD achieved
@ 11:10am 06/23/14. T.O.O.H.
for intermediate casing.
06/24/14 B.O.B. @ 7:45pm.
2000
Note Scale Change
Scale Change
TG, C1-C5
0
2
ROP (min/ft)
0
250
Gamma (API)
0
7600
7650
7700
7750
7180 TVD
06/24/14 4:00am Depth @ 7695'MD
7260 TVD
Note Scale Change
7280
Scale Change
7310
MD 7630 TVD 7327.18
Az 87.7° Inc 83.82°
MD 7751 TVD 7329.22
Az 85.1° Inc 94.24°
%: ltgy, blky, frm-hrd, v calc, crypxln od mlky wh cut. SH 10%: l bplty, slty, sft, sl ca
LS 50%: ltgy, blky, frm-hrd, v calc, crypxln-mxln, nsf, nsfc. SS 40%: gy-dkgy-wht-clr, vfg-fg, rnd-sub rnd, sft, md cal, carb incl, fri, nsf, slw str wh cut. SH 10%: dkgy, plty-sbplty, slty, grty, sft, sl cal.
SS 90%: gy-dkgy-wht-clr, vfg-fg, rnd-sub rnd, sft, md cal, carb incl, fri, nsf, slw str wh cut. SH 10%: dkgy, plty-sbplty, slty, grty, sft, sl cal. Tr LS.
SS 90%: gy-dkgy-wht-clr, vfg-mg, rnd-sub rnd, sft, md cal, carb incl, fri, nsf, slw str wh cut. SH 10%: dkgy, plty-sbplty, slty, grty, sft, sl cal.
7380
7360

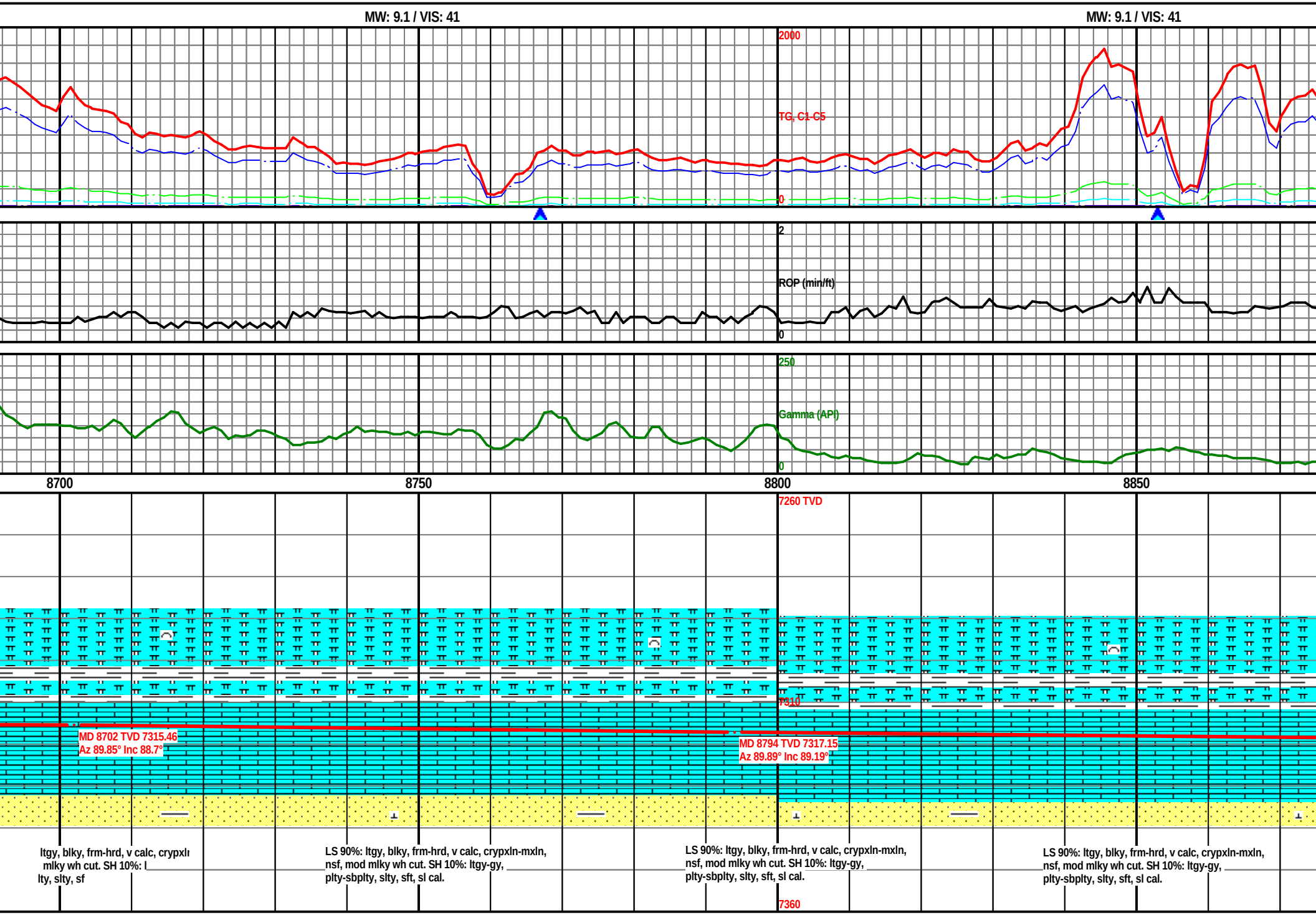

MW: 9.1 / VIS: 47
MW: 9.1 / VIS: 47
2000
TG, C1-C5
0
2
ROP (min/ft)
0
250
Gamma (API)
0
7800
7850
7900
7950
7260 TVD
7310
7360
MD 7782 TVD 7326.94
Az 84.78° Inc 94.19°
MD 7875 TVD 7321.06
Az 85.22° Inc 93.06°
SS 90%: gy-dkgy-wht-clr, vfg-mg, rnd-sub rnd, sft, md cal, carb incl, fri, nsf, slw str wh cut. SH 10%: dkgy, plty-sbplty, slty, grty, sft, sl cal.
LS 90%: ltgy, blky, frm-hrd, v calc, crypxln-mxln, nsf, mod mlky wh cut. SH 10%: ltgy-gy, plty-sbplty, slty, sft, sl cal. Tr SS.
LS 90%: ltgy, blky, frm-hrd, v calc, crypxln-mxln, nsf, mod mlky wh cut. SH 10%: ltgy-gy, plty-sbplty, slty, sft, sl cal.
LS 90%: ltgy, blky, frm-hrd, v calc, nsf, mod mlky wh cut. SH 10%: ltgy plty-sbplty, slty, sft, sl cal.

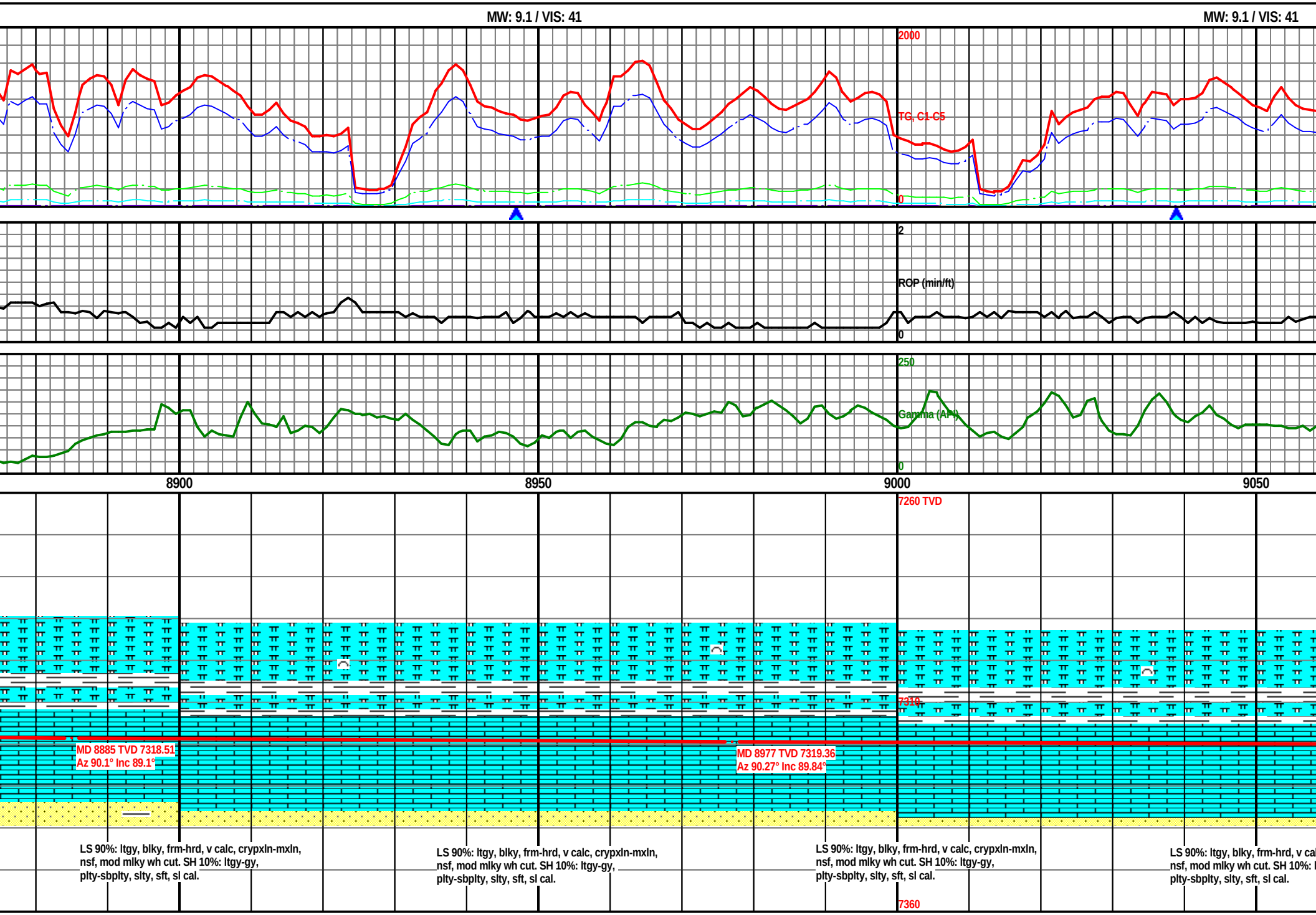

MW: 9.1 / VIS: 47
2000
TG, C1 C5
0
2
ROP (min/ft)
0
250
Gamma (API)
0
8000
8050
8100
7260 TVD
7310
7360
MD 7966 TVD 7317.09
Az 86.07° Inc 91.94°
MD 8058 TVD 7314.87
Az 86.68° Inc 90.83°
rypxln
LS 90%: ltgy, blky, frm-hrd, v calc, crypxln-mxln, nsf, mod mlky wh cut. SH 10%: ltgy-gy, plty-sbplty, slty, sft, sl cal.
LS 90%: ltgy, blky, frm-hrd, v calc, crypxln-mxln, nsf, mod mlky wh cut. SH 10%: ltgy-gy, plty-sbplty, slty, sft, sl cal.
LS 90%: ltgy, blky, frm-hrd, v calc, crypxln-mxln, nsf, mod mlky wh cut. SH 10%: ltgy-gy, plty-sbplty, slty, sft, sl cal.

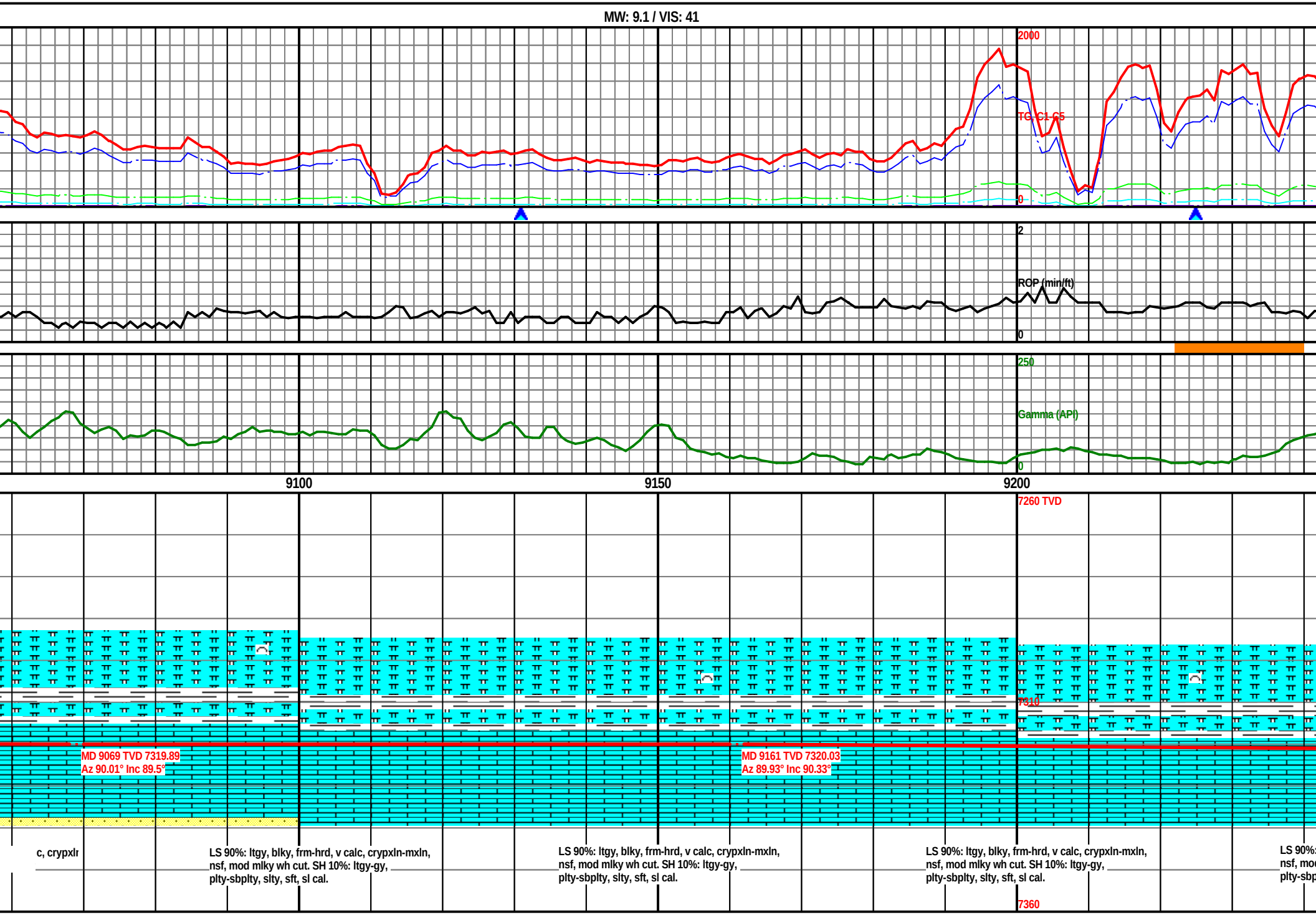

MW: 9.1 / VIS: 46
MW: 9.1 / VIS: 46
2000
TG, C1-C5
0
2
ROP (min/ft)
0
250
Gamma (API)
0
8150
8200
8250
8300
7260 TVD
7310
7360
MD 8150 TVD 7314.61
Az 87.68° Inc 89.5°
MD 8242 TVD 7314.57
Az 87.64° Inc 90.55°
gy, blky, frm-hrd, v calc, crypxln
lky wh cut. SH 10%: l
, slty, sf
LS 90%: ltgy, blky, frm-hrd, v calc, crypxln-mxln, nsf, mod mlky wh cut. SH 10%: ltgy-gy, plty-sbplty, slty, sft, sl cal.
LS 90%: ltgy, blky, frm-hrd, v calc, crypxln-mxln, nsf, mod mlky wh cut. SH 10%: ltgy-gy, plty-sbplty, slty, sft, sl cal.
LS 90%: ltgy, blky, frm-hrd, v calc, crypxln-mxln, nsf, mod mlky wh cut. SH 10%: ltgy-gy, plty-sbplty, slty, sft, sl cal.

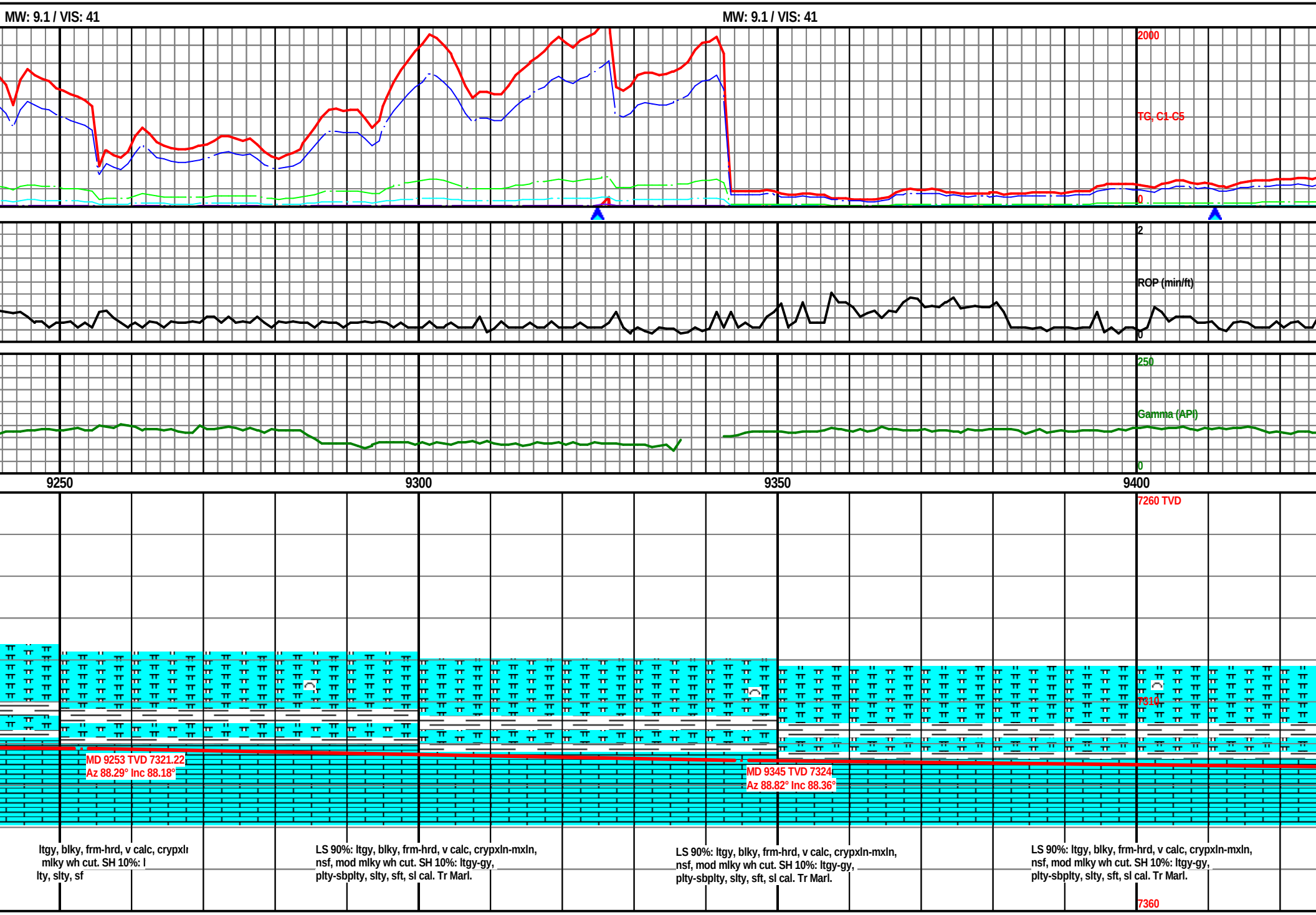

MW: 9.0 / VIS: 42
MW: 9.2 / VIS: 40
2000
TG, C1-C5
0
2
ROP (min/ft)
0
250
Gamma (API)
0
8350
8400
8450
8500
7260 TVD
7310
7360
MD 8334 TVD 7313.67
Az 88.99° Inc 90.56°
MD 8426 TVD 7313.52
Az 89.29° Inc 89.63°
LS 90%: ltgy, blky, frm-hrd, v calc, crypxln-mxln, nsf, mod mlky wh cut. SH 10%: ltgy-gy, plty-sbplty, slty, sft, sl cal.
LS 90%: ltgy, blky, frm-hrd, v calc, crypxln-mxln, nsf, mod mlky wh cut. SH 10%: ltgy-gy, plty-sbplty, slty, sft, sl cal.
LS 90%: ltgy, blky, frm-hrd, v calc, crypxln-mxln, nsf, mod mlky wh cut. SH 10%: ltgy-gy, plty-sbplty, slty, sft, sl cal.
LS 90%: ltgy, blky, frm-hrd, v calc, c
nsf, mod mlky wh cut. SH 10%: ltgy-
plty-sbplty, slty, sft, sl cal.

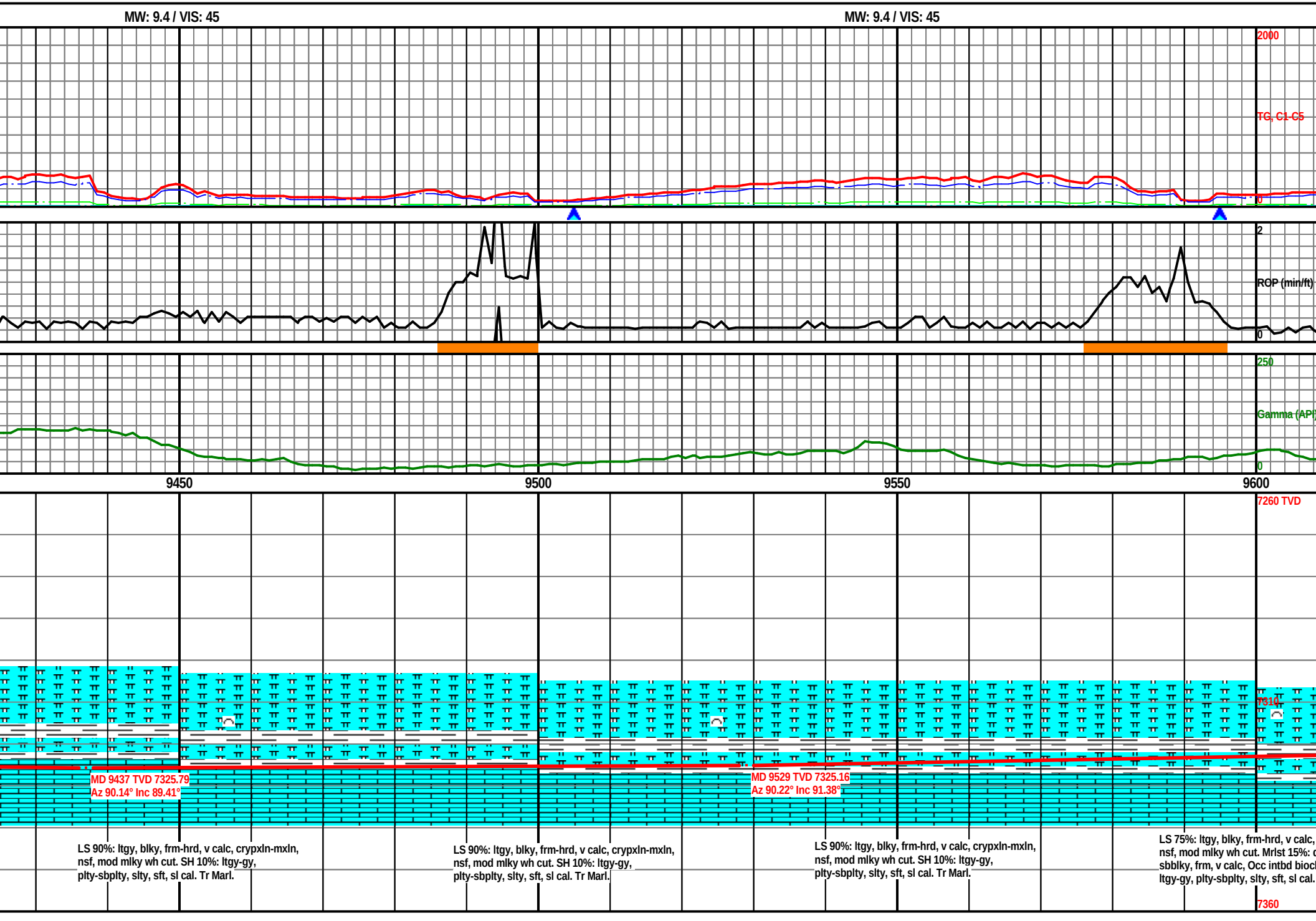

MW: 9.2 / VIS: 40
MW: 9.2 / VIS: 40
Gas Show #1
8544' - 9342'
2000
TG, C1-C5
0
2
ROP (min/ft)
0
250
Gamma (API)
0
8550
8600
8650
7260 TVD
06/25/14 4:00am Depth @ 8777'MD
7310
MD 8518 TVD 7314.44
Az 90.46° Inc 89.23°
MD 8610 TVD 7314.73
Az 90.45° Inc 90.4°
rypxln
LS 90%: ltgy, blky, frm-hrd, v calc, crypxln-mxln, nsf, mod mlky wh cut. SH 10%: ltgy-gy, plty-sbplty, slty, sft, sl cal.
LS 90%: ltgy, blky, frm-hrd, v calc, crypxln-mxln, nsf, mod mlky wh cut. SH 10%: ltgy-gy, plty-sbplty, slty, sft, sl cal.
LS 90%: ltgy, blky, frm-hrd, v calc, crypxln-mxln, nsf, mod mlky wh cut. SH 10%: ltgy-gy, plty-sbplty, slty, sft, sl cal.
LS 90%
nsf, mo
plty-sbp
7360

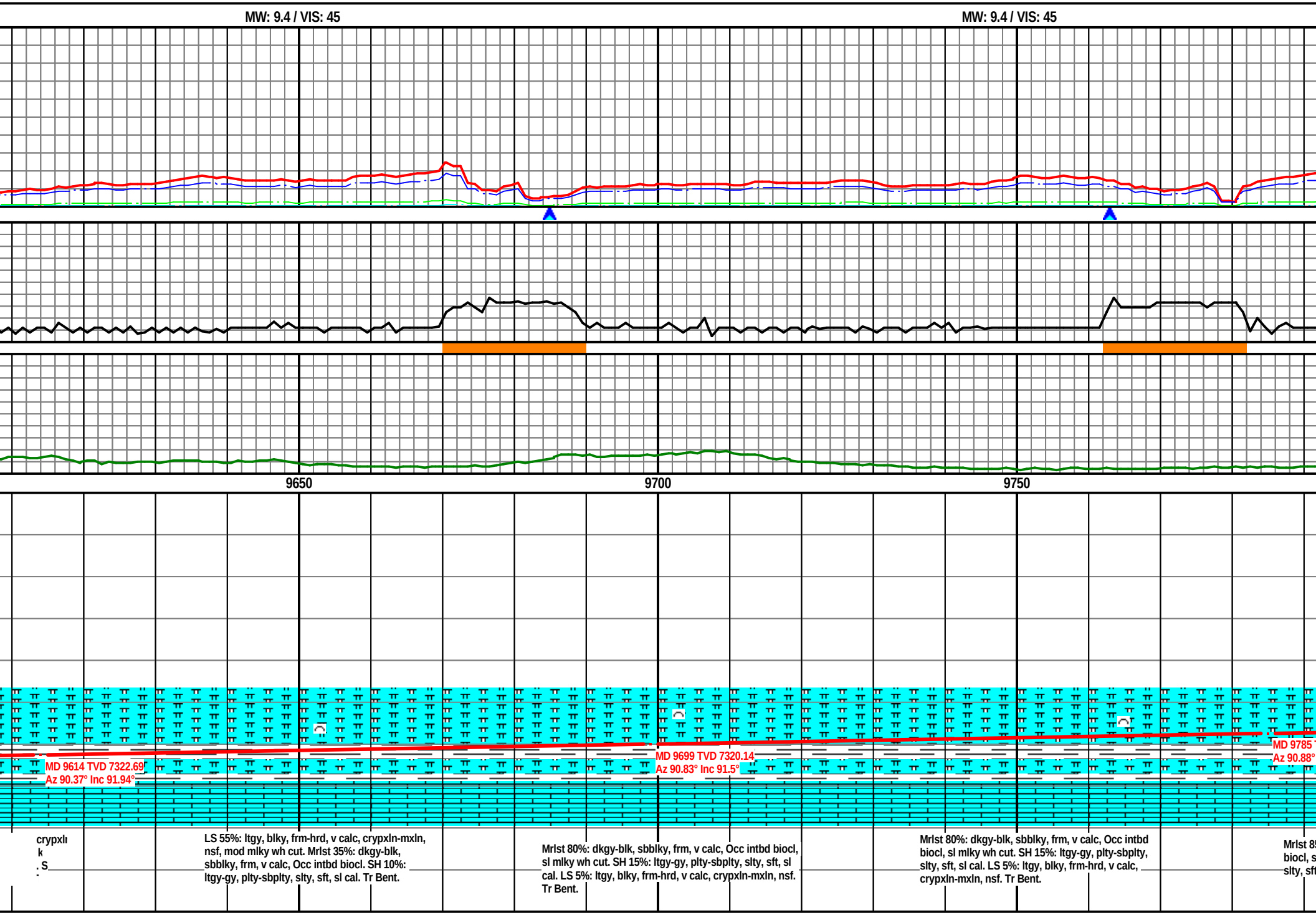

MW: 9.1 / VIS: 41
MW: 9.1 / VIS: 41
2000
TG, C1-C5
0
2
ROP (min/ft)
0
250
Gamma (API)
0
8700
8750
8800
8850
7260 TVD
7310
7360
MD 8702 TVD 7315.46
Az 89.85° Inc 88.7°
MD 8794 TVD 7317.15
Az 89.89° Inc 89.19°
ltgy, blky, frm-hrd, v calc, crypxln
mlky wh cut. SH 10%: l
lty, slty, sf
LS 90%: ltgy, blky, frm-hrd, v calc, crypxln-mxln,
nsf, mod mlky wh cut. SH 10%: ltgy-gy,
plty-sbplty, slty, sft, sl cal.
LS 90%: ltgy, blky, frm-hrd, v calc, crypxln-mxln,
nsf, mod mlky wh cut. SH 10%: ltgy-gy,
plty-sbplty, slty, sft, sl cal.
LS 90%: ltgy, blky, frm-hrd, v calc, crypxln-mxln,
nsf, mod mlky wh cut. SH 10%: ltgy-gy,
plty-sbplty, slty, sft, sl cal.

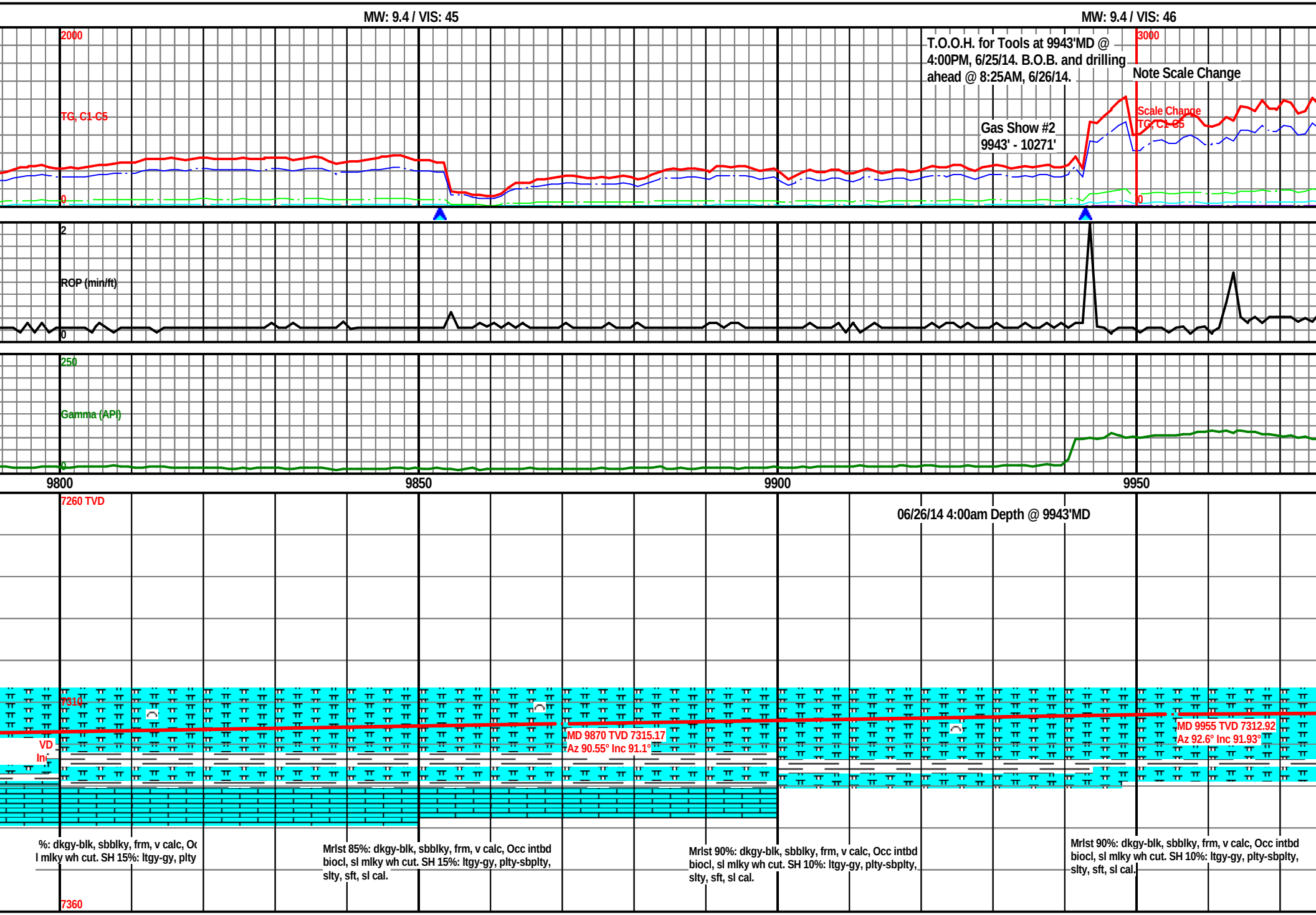

MW: 9.1 / VIS: 41
MW: 9.1 / VIS: 41
2000
TG, C1-C5
0
2
ROP (min/ft)
0
250
Gamma (API)
0
8900
8950
9000
9050
7260 TVD
7310
7360
MD 8885 TVD 7318.51
Az 90.1° Inc 89.1°
MD 8977 TVD 7319.36
Az 90.27° Inc 89.84°
LS 90%: ltgy, blky, frm-hrd, v calc, crypxln-mxln, nsf, mod mlky wh cut. SH 10%: ltgy-gy, plty-sbplty, slty, sft, sl cal.
LS 90%: ltgy, blky, frm-hrd, v calc, crypxln-mxln, nsf, mod mlky wh cut. SH 10%: ltgy-gy, plty-sbplty, slty, sft, sl cal.
LS 90%: ltgy, blky, frm-hrd, v calc, crypxln-mxln, nsf, mod mlky wh cut. SH 10%: ltgy-gy, plty-sbplty, slty, sft, sl cal.
LS 90%: ltgy, blky, frm-hrd, v cal
nsf, mod mlky wh cut. SH 10%:
plty-sbplty, slty, sft, sl cal.

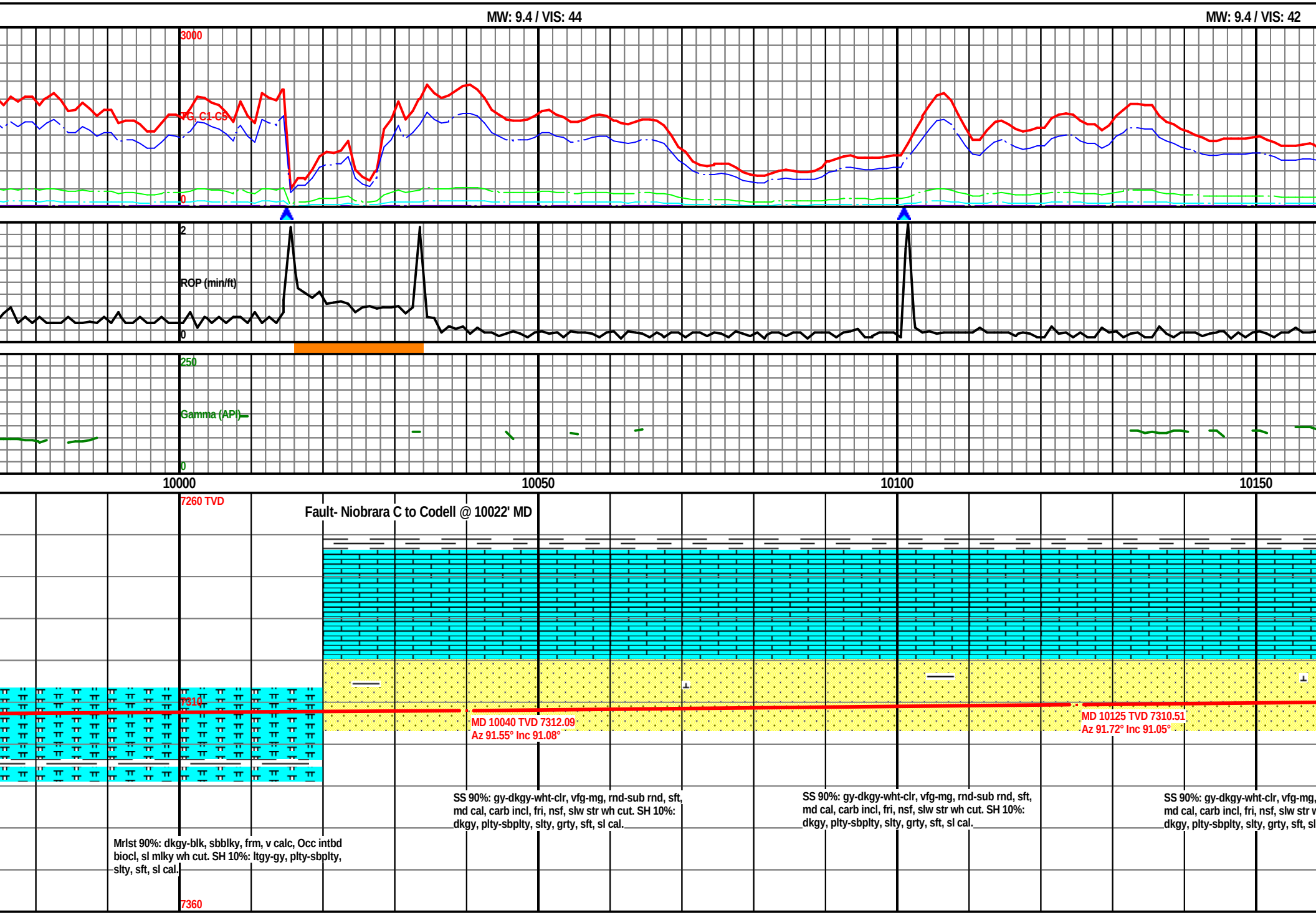

MW: 9.1 / VIS: 41
2000
TG, C1, C5
0
2
ROP (min/ft)
0
250
Gamma (API)
0
9100
9150
9200
7260 TVD
7310
7360
MD 9069 TVD 7319.89
Az 90.01° Inc 89.5°
MD 9161 TVD 7320.03
Az 89.93° Inc 90.33°
c, crypxln
LS 90%: ltgy, blky, frm-hrd, v calc, crypxln-mxln, nsf, mod mlky wh cut. SH 10%: ltgy-gy, plty-sbplty, slty, sft, sl cal.
LS 90%: ltgy, blky, frm-hrd, v calc, crypxln-mxln, nsf, mod mlky wh cut. SH 10%: ltgy-gy, plty-sbplty, slty, sft, sl cal.
LS 90%: ltgy, blky, frm-hrd, v calc, crypxln-mxln, nsf, mod mlky wh cut. SH 10%: ltgy-gy, plty-sbplty, slty, sft, sl cal.

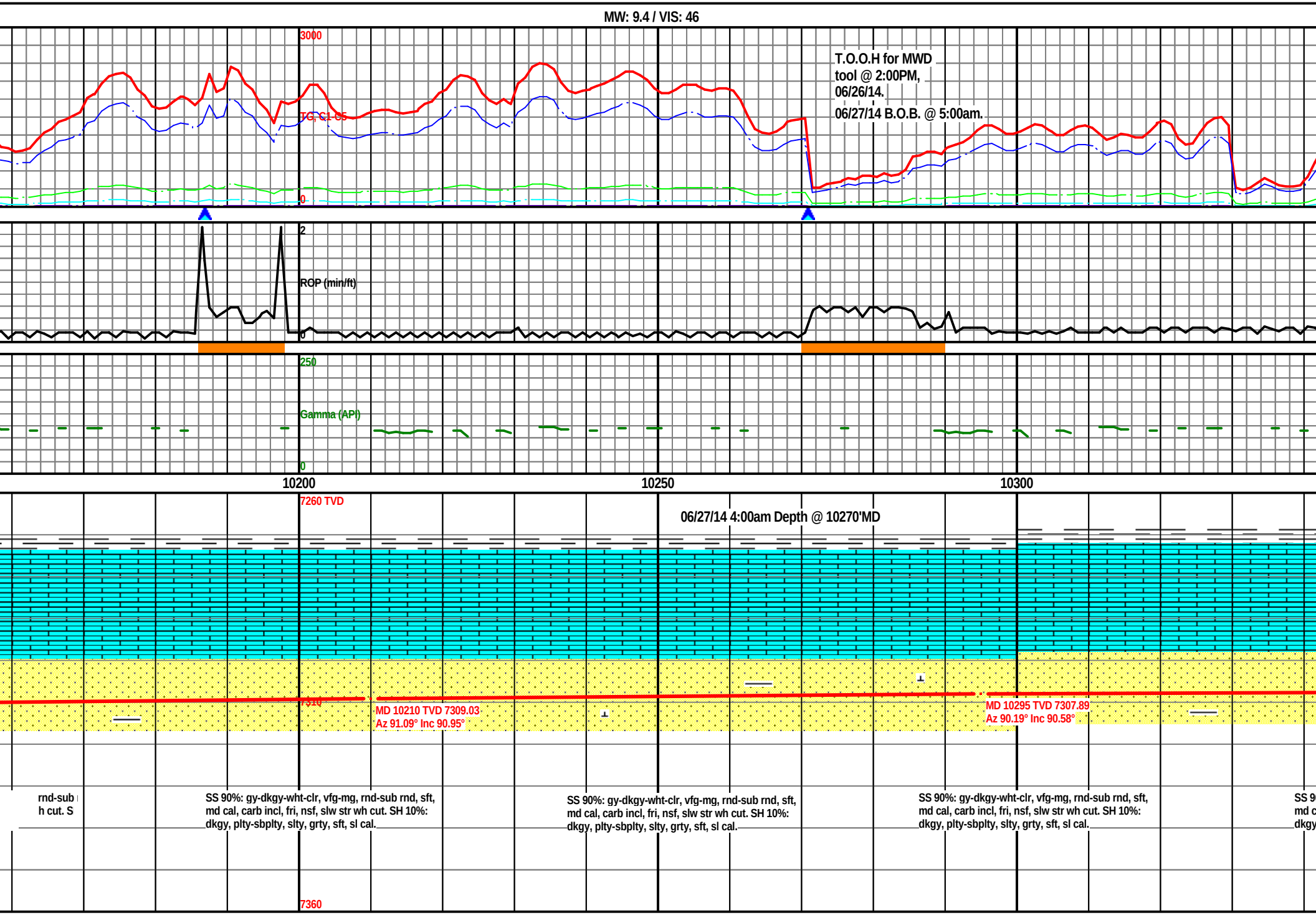

MW: 9.1 / VIS: 41
MW: 9.1 / VIS: 41
2000
TG, C1 C5
0
2
ROP (min/ft)
0
250
Gamma (API)
0
9250
9300
9350
9400
7260 TVD
7310
7360
MD 9253 TVD 7321.22
Az 88.29° Inc 88.18°
MD 9345 TVD 7324
Az 88.82° Inc 88.36°
ltgy, blky, frm-hrd, v calc, crypxln
mlky wh cut. SH 10%: l
lty, slty, sf
LS 90%: ltgy, blky, frm-hrd, v calc, crypxln-mxln, nsf, mod mlky wh cut. SH 10%: ltgy-gy, plty-sbplty, slty, sft, sl cal. Tr Marl.
LS 90%: ltgy, blky, frm-hrd, v calc, crypxln-mxln, nsf, mod mlky wh cut. SH 10%: ltgy-gy, plty-sbplty, slty, sft, sl cal. Tr Marl.
LS 90%: ltgy, blky, frm-hrd, v calc, crypxln-mxln, nsf, mod mlky wh cut. SH 10%: ltgy-gy, plty-sbplty, slty, sft, sl cal. Tr Marl.

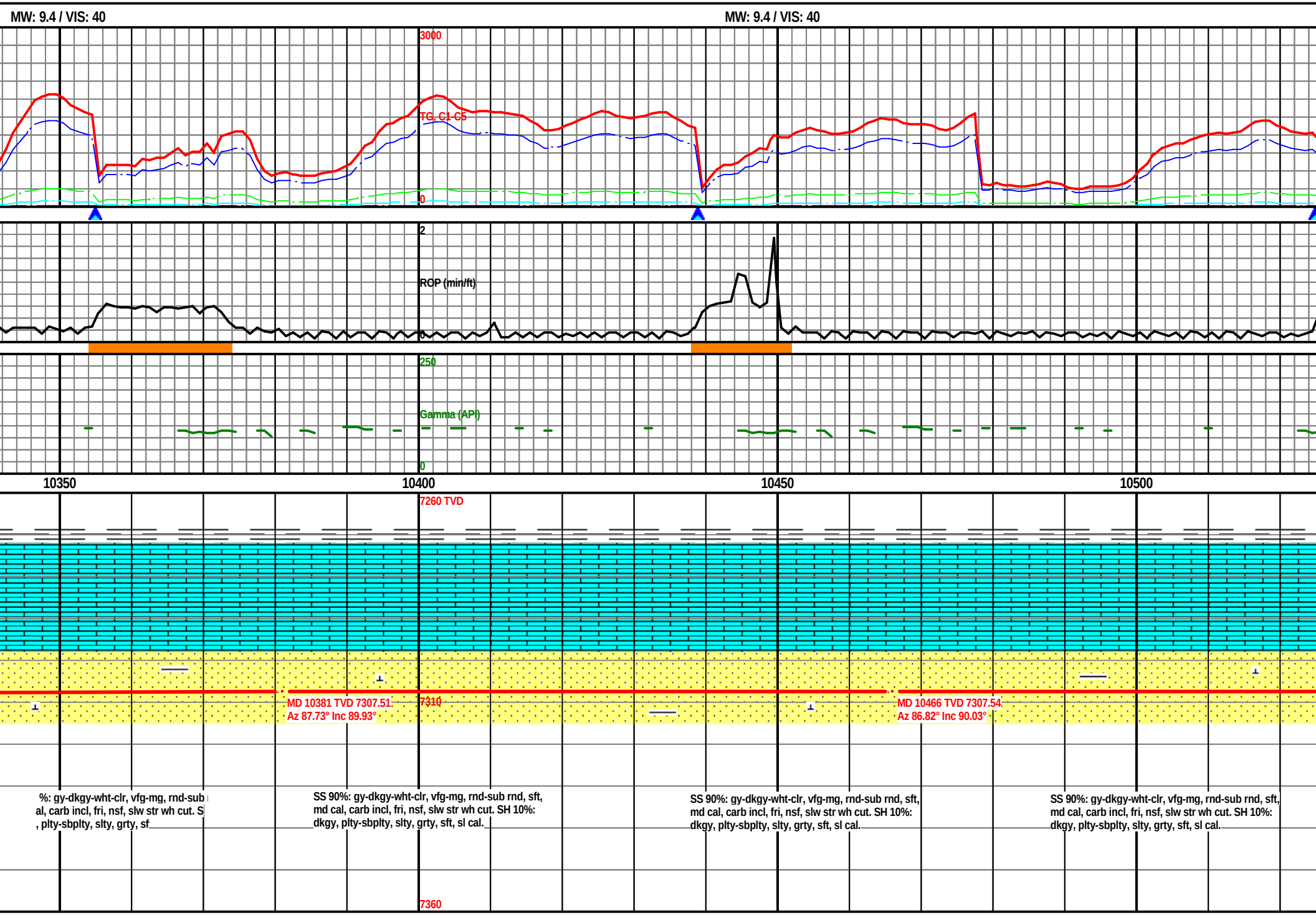

MW: 9.4 / VIS: 45
MW: 9.4 / VIS: 45
2000
TG, C1-C5
0
2
ROP (min/ft)
0
250
Gamma (API)
0
9450
9500
9550
9600
7260 TVD
7310
7360
MD 9437 TVD 7325.79
Az 90.14° Inc 89.41°
MD 9529 TVD 7325.16
Az 90.22° Inc 91.38°
LS 90%: ltgy, blky, frm-hrd, v calc, crypxln-mxln, nsf, mod mlky wh cut. SH 10%: ltgy-gy, plty-sbplty, slty, sft, sl cal. Tr Marl.
LS 90%: ltgy, blky, frm-hrd, v calc, crypxln-mxln, nsf, mod mlky wh cut. SH 10%: ltgy-gy, plty-sbplty, slty, sft, sl cal. Tr Marl.
LS 90%: ltgy, blky, frm-hrd, v calc, crypxln-mxln, nsf, mod mlky wh cut. SH 10%: ltgy-gy, plty-sbplty, slty, sft, sl cal. Tr Marl.
LS 75%: ltgy, blky, frm-hrd, v calc,
nsf, mod mlky wh cut. Mrlst 15%:
sbblky, frm, v calc, Occ intbd biocl
ltgy-gy, plty-sbplty, slty, sft, sl cal.

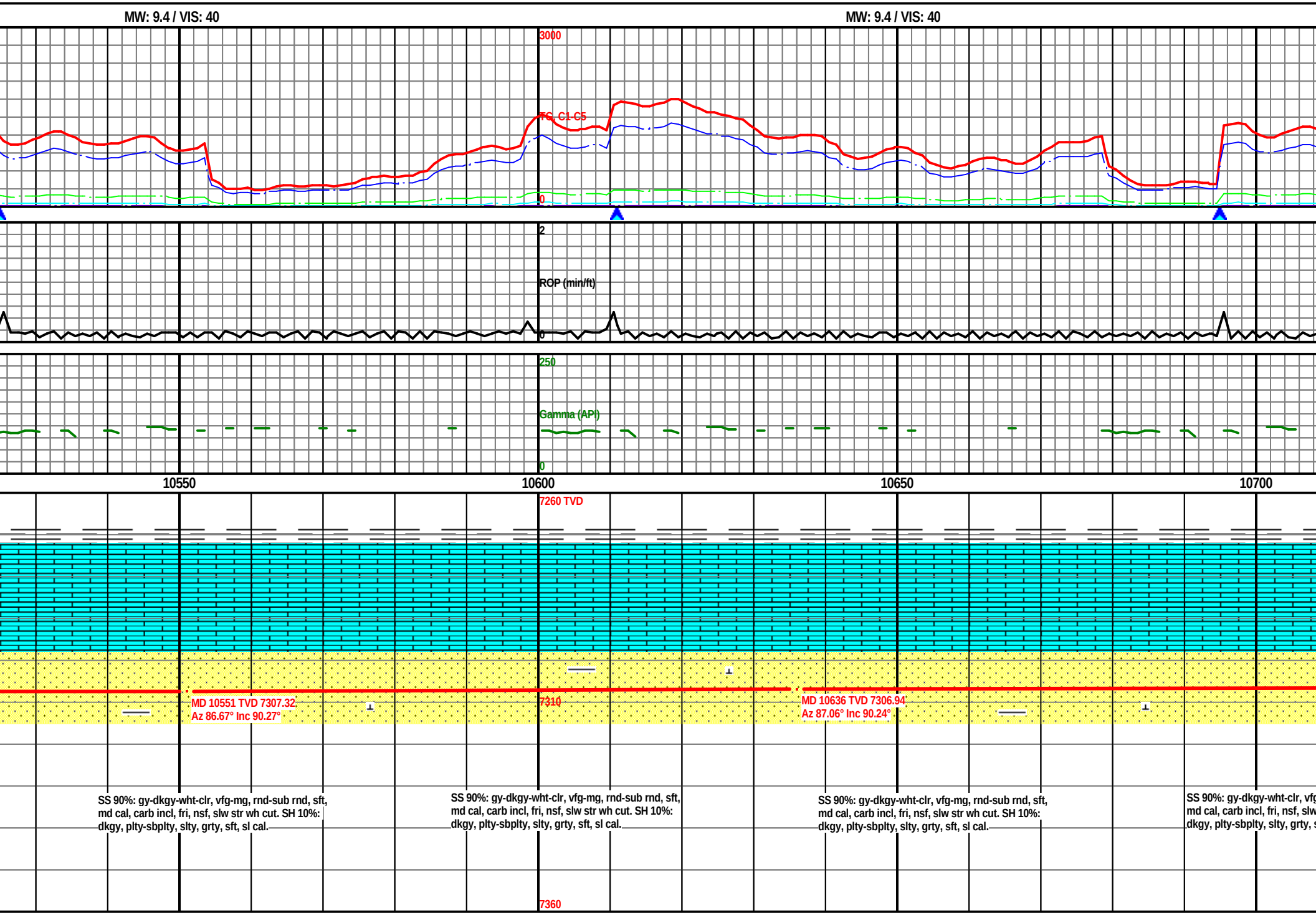

MW: 9.4 / VIS: 45
MW: 9.4 / VIS: 45
9650
9700
9750
MD 9614 TVD 7322.69
Az 90.37° Inc 91.94°
MD 9699 TVD 7320.14
Az 90.83° Inc 91.5°
MD 9785
Az 90.88°
crypxln
k
. S
LS 55%: ltgy, blky, frm-hrd, v calc, crypxln-mxln, nsf, mod mlky wh cut. Mrlst 35%: dkgy-blk, sbblky, frm, v calc, Occ intbd biocl. SH 10%: ltgy-gy, plty-sbplty, slty, sft, sl cal. Tr Bent.
Mrlst 80%: dkgy-blk, sbblky, frm, v calc, Occ intbd biocl, sl mlky wh cut. SH 15%: ltgy-gy, plty-sbplty, slty, sft, sl cal. LS 5%: ltgy, blky, frm-hrd, v calc, crypxln-mxln, nsf. Tr Bent.
Mrlst 80%: dkgy-blk, sbblky, frm, v calc, Occ intbd biocl, sl mlky wh cut. SH 15%: ltgy-gy, plty-sbplty, slty, sft, sl cal. LS 5%: ltgy, blky, frm-hrd, v calc, crypxln-mxln, nsf. Tr Bent.
Mrlst 8
biocl, s
slty, sft

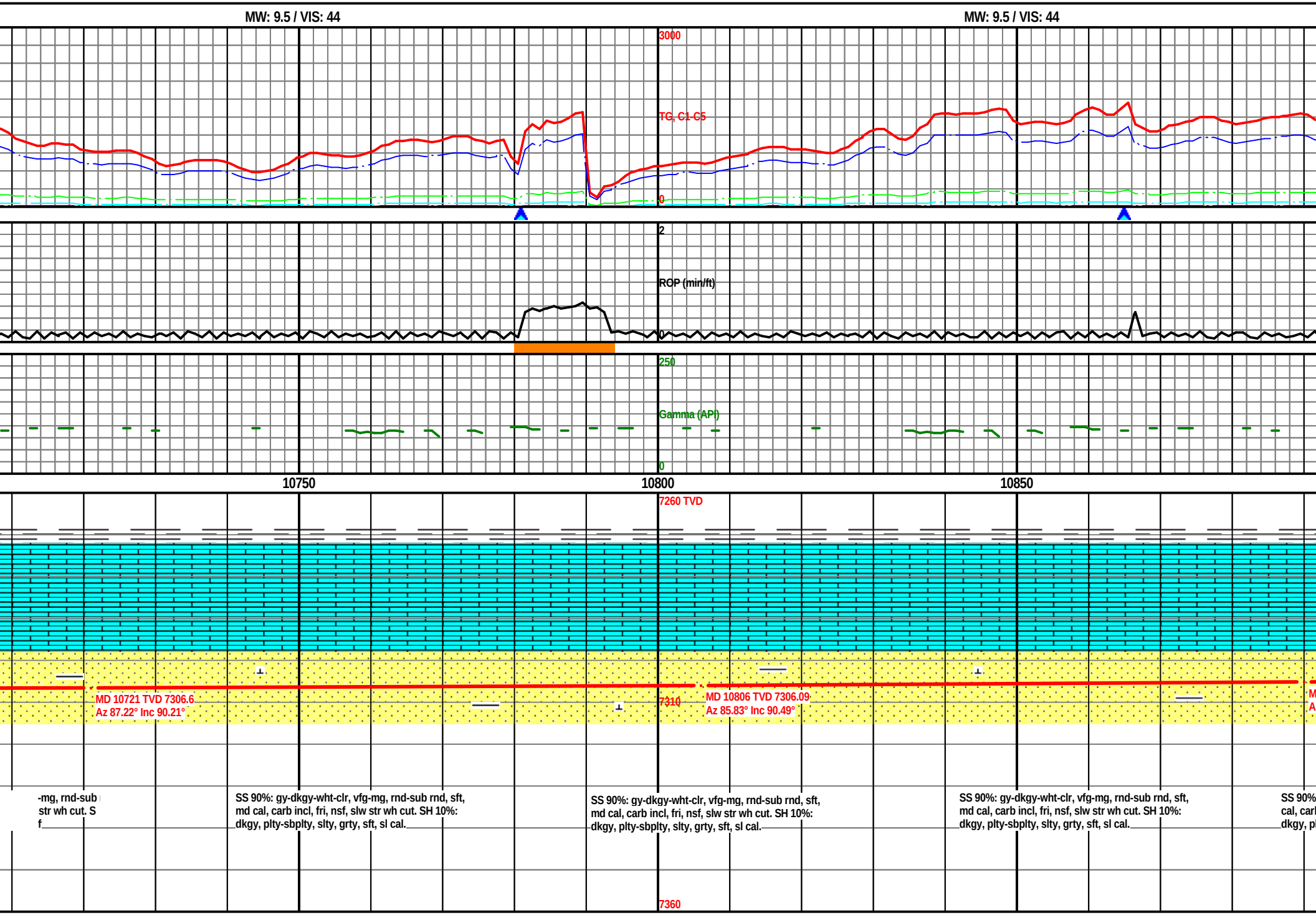

MW: 9.4 / VIS: 45
MW: 9.4 / VIS: 46
2000
TG, C1-C5
0
T.O.O.H. for Tools at 9943'MD @ 4:00PM, 6/25/14. B.O.B. and drilling ahead @ 8:25AM, 6/26/14.
3000
Note Scale Change
Scale Change
TG, C1-C5
Gas Show #2
9943' - 10271'
2
ROP (min/ft)
0
250
Gamma (API)
0
9800
9850
9900
9950
7260 TVD
06/26/14 4:00am Depth @ 9943'MD
7310
VD
In
MD 9870 TVD 7315.17
Az 90.55° Inc 91.1°
MD 9955 TVD 7312.92
Az 92.6° Inc 91.93°
%: dkgy-blk, sbblky, frm, v calc, Oc
l mlky wh cut. SH 15%: ltgy-gy, plty
Mrlst 85%: dkgy-blk, sbblky, frm, v calc, Occ intbd biocl, sl mlky wh cut. SH 15%: ltgy-gy, plty-sbplty, slty, sft, sl cal.
Mrlst 90%: dkgy-blk, sbblky, frm, v calc, Occ intbd biocl, sl mlky wh cut. SH 10%: ltgy-gy, plty-sbplty, slty, sft, sl cal.
Mrlst 90%: dkgy-blk, sbblky, frm, v calc, Occ intbd biocl, sl mlky wh cut. SH 10%: ltgy-gy, plty-sbplty, slty, sft, sl cal.
7360

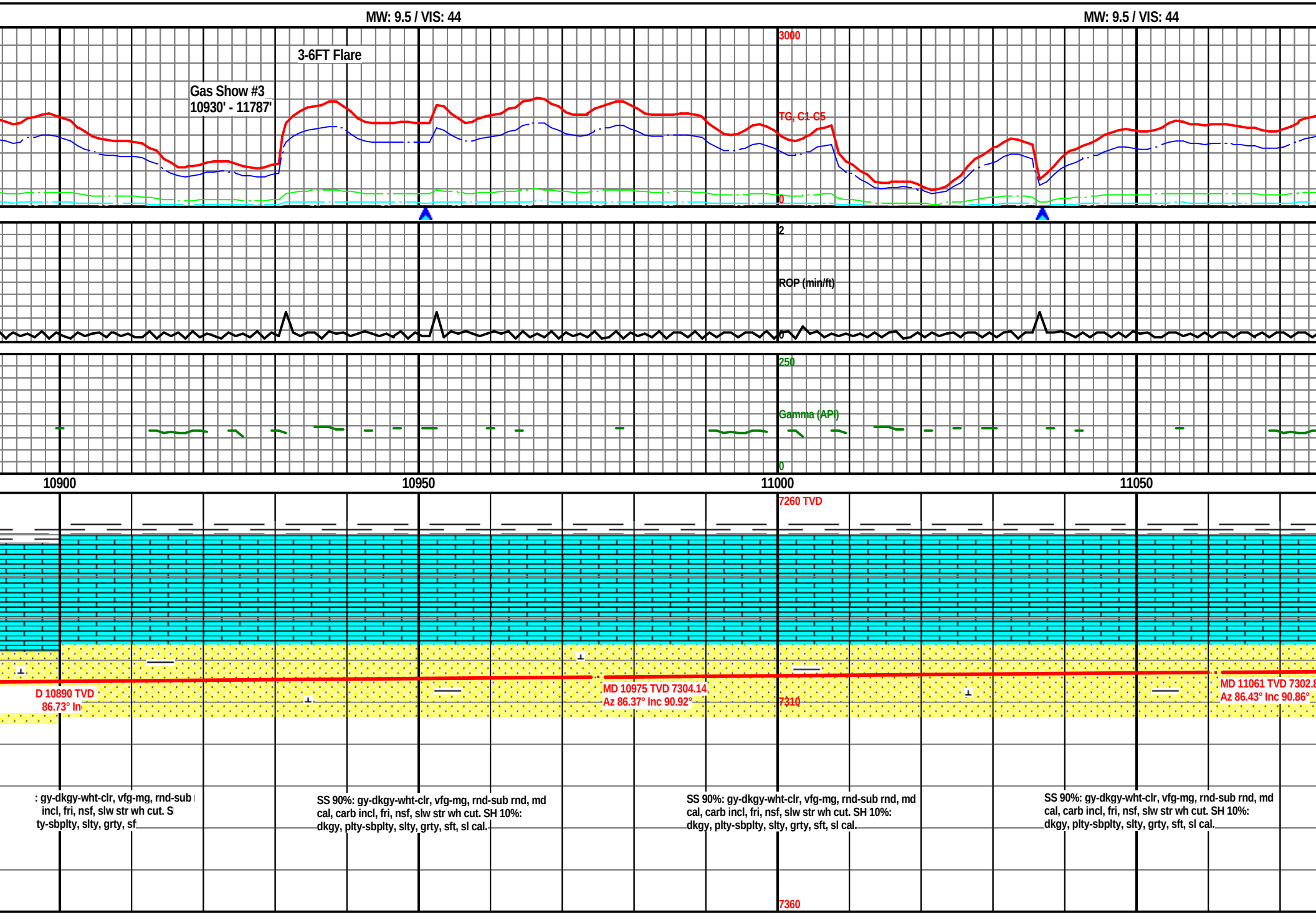

MW: 9.4 / VIS: 44
MW: 9.4 / VIS: 42
3000
TG, C1-C5
0
2
ROP (min/ft)
0
250
Gamma (API)
0
10000
10050
10100
10150
7260 TVD
Fault- Niobrara C to Codell @ 10022' MD
7310
MD 10040 TVD 7312.09
Az 91.55° Inc 91.08°
MD 10125 TVD 7310.51
Az 91.72° Inc 91.05°
Mrlst 90%: dkgy-blk, sbblky, frm, v calc, Occ intbd biocl, sl mlky wh cut. SH 10%: ltgy-gy, plty-sbplty, slty, sft, sl cal.
SS 90%: gy-dkgy-wht-clr, vfg-mg, rnd-sub rnd, sft, md cal, carb incl, fri, nsf, slw str wh cut. SH 10%: dkgy, plty-sbplty, slty, grty, sft, sl cal.
SS 90%: gy-dkgy-wht-clr, vfg-mg, rnd-sub rnd, sft, md cal, carb incl, fri, nsf, slw str wh cut. SH 10%: dkgy, plty-sbplty, slty, grty, sft, sl cal.
SS 90%: gy-dkgy-wht-clr, vfg-mg, md cal, carb incl, fri, nsf, slw str w dkgy, plty-sbplty, slty, grty, sft, sl
7360

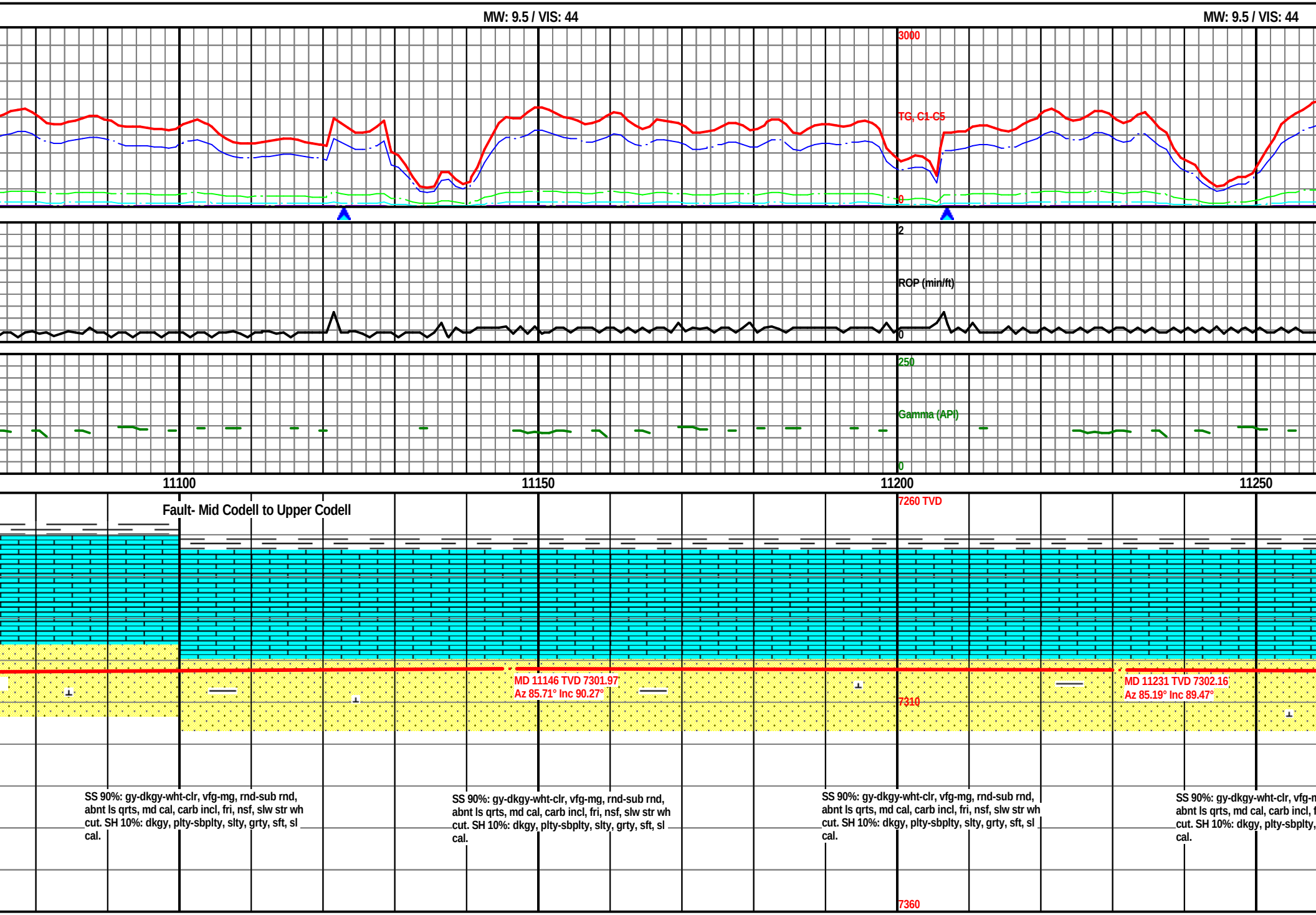

MW: 9.4 / VIS: 46
3000
TG, C1-C5
0
T.O.O.H for MWD tool @ 2:00PM, 06/26/14.
06/27/14 B.O.B. @ 5:00am.
2
ROP (min/ft)
0
250
Gamma (API)
0
10200
10250
10300
7260 TVD
06/27/14 4:00am Depth @ 10270'MD
7310
MD 10210 TVD 7309.03
Az 91.09° Inc 90.95°
MD 10295 TVD 7307.89
Az 90.19° Inc 90.58°
rnd-sub
h cut. S
SS 90%: gy-dkgy-wht-clr, vfg-mg, rnd-sub rnd, sft, md cal, carb incl, fri, nsf, slw str wh cut. SH 10%: dkgy, plty-sbplty, slty, grty, sft, sl cal.
SS 90%: gy-dkgy-wht-clr, vfg-mg, rnd-sub rnd, sft, md cal, carb incl, fri, nsf, slw str wh cut. SH 10%: dkgy, plty-sbplty, slty, grty, sft, sl cal.
SS 90%: gy-dkgy-wht-clr, vfg-mg, rnd-sub rnd, sft, md cal, carb incl, fri, nsf, slw str wh cut. SH 10%: dkgy, plty-sbplty, slty, grty, sft, sl cal.
7360

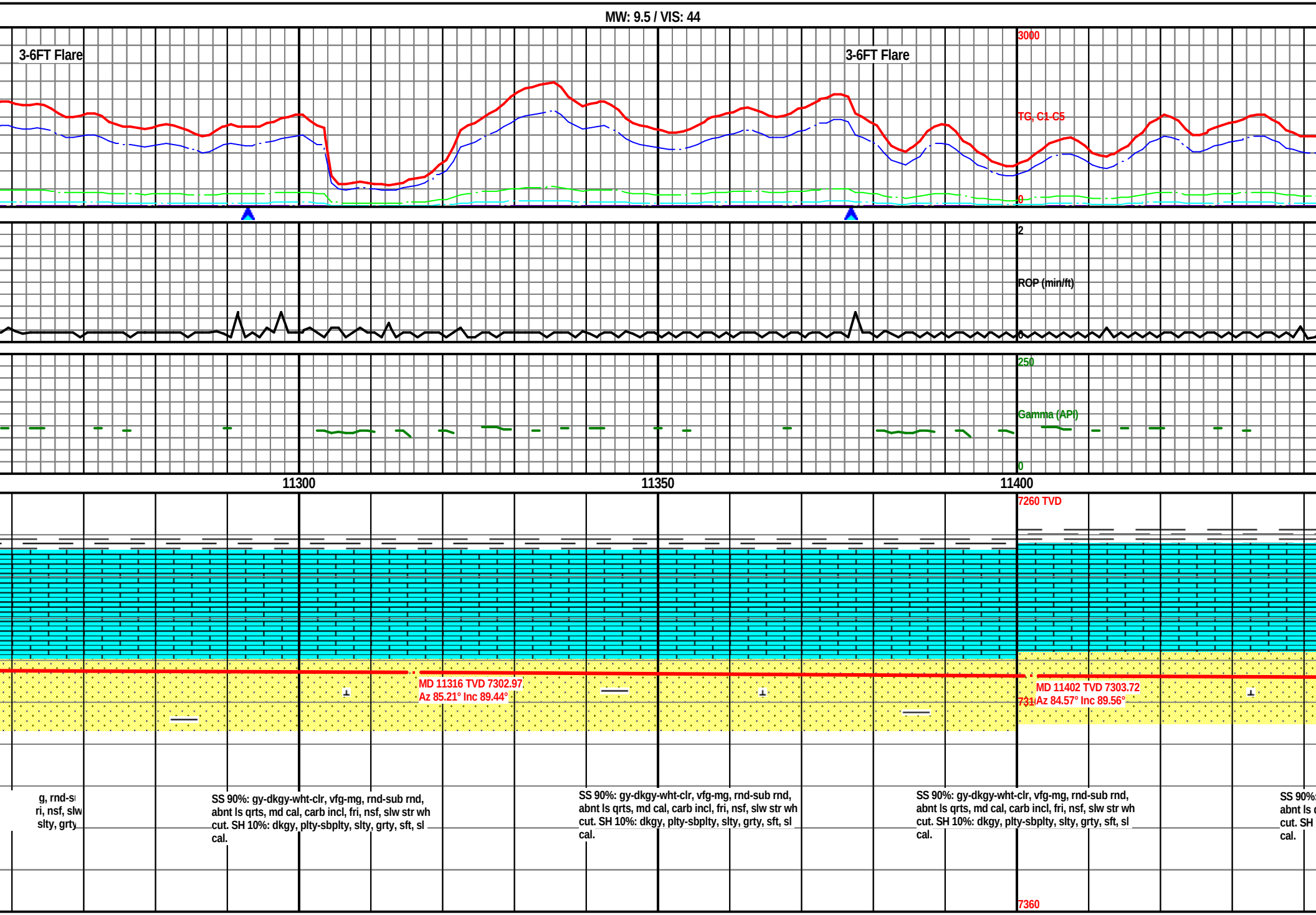

MW: 9.4 / VIS: 40
MW: 9.4 / VIS: 40
3000
TG, C1-C5
0
2
ROP (min/ft)
0
250
Gamma (API)
0
10350
10400
10450
10500
7260 TVD
MD 10381 TVD 7307.51
Az 87.73° Inc 89.93°
7310
MD 10466 TVD 7307.54
Az 86.82° Inc 90.03°
%: gy-dkgy-wht-clr, vfg-mg, rnd-sub
al, carb incl, fri, nsf, slw str wh cut. S
, plty-sbplty, slty, grty, sf
SS 90%: gy-dkgy-wht-clr, vfg-mg, rnd-sub rnd, sft,
md cal, carb incl, fri, nsf, slw str wh cut. SH 10%:
dkgy, plty-sbplty, slty, grty, sft, sl cal.
SS 90%: gy-dkgy-wht-clr, vfg-mg, rnd-sub rnd, sft,
md cal, carb incl, fri, nsf, slw str wh cut. SH 10%:
dkgy, plty-sbplty, slty, grty, sft, sl cal.
SS 90%: gy-dkgy-wht-clr, vfg-mg, rnd-sub rnd, sft,
md cal, carb incl, fri, nsf, slw str wh cut. SH 10%:
dkgy, plty-sbplty, slty, grty, sft, sl cal.
7360

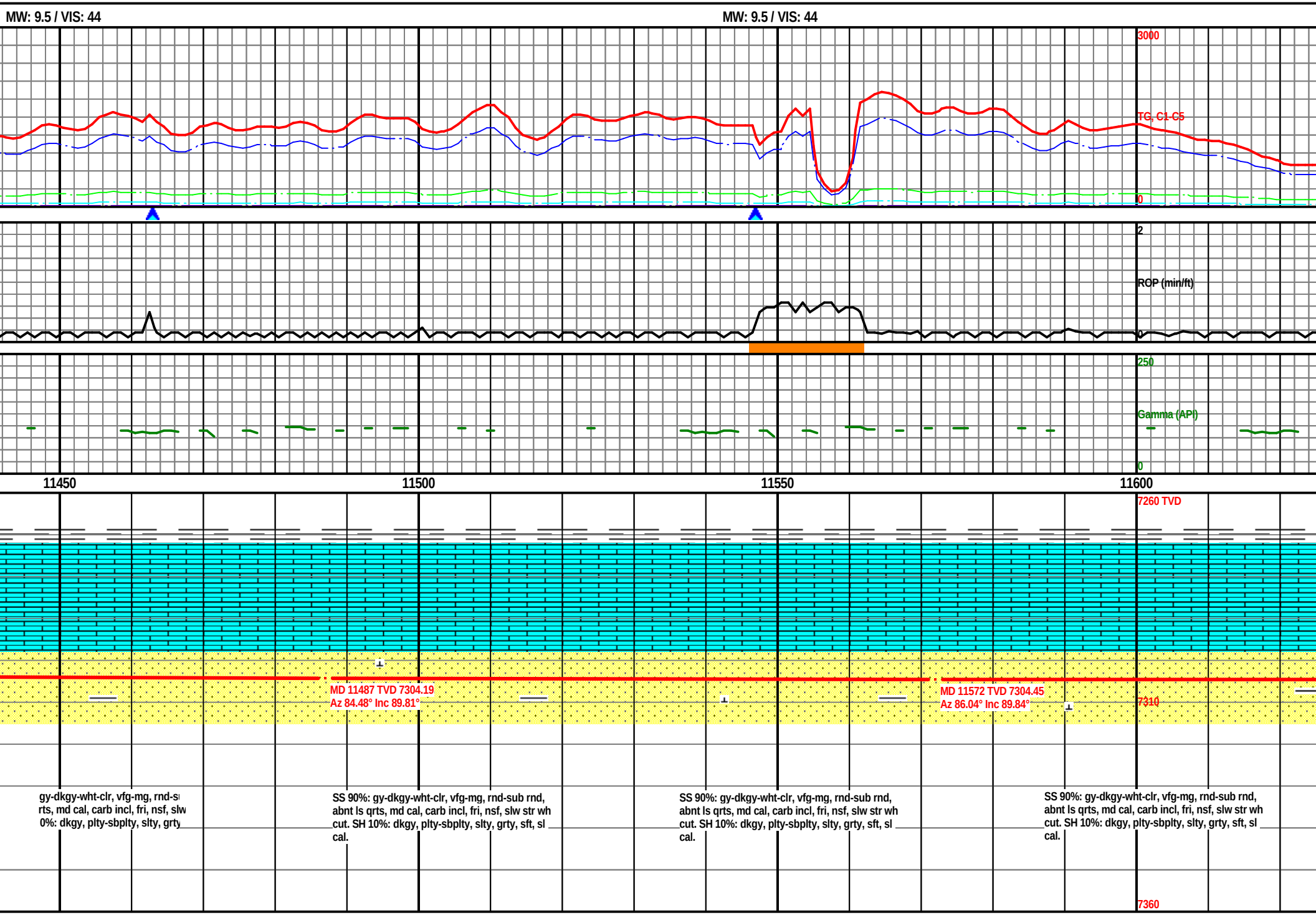

MW: 9.4 / VIS: 40
MW: 9.4 / VIS: 40
3000
TG, C1-C5
0
2
ROP (min/ft)
0
250
Gamma (API)
0
10550
10600
10650
10700
7260 TVD
7310
7360
MD 10551 TVD 7307.32
Az 86.67° Inc 90.27°
MD 10636 TVD 7306.94
Az 87.06° Inc 90.24°
SS 90%: gy-dkgy-wht-clr, vfg-mg, rnd-sub rnd, sft, md cal, carb incl, fri, nsf, slw str wh cut. SH 10%: dkgy, plty-sbplty, slty, grty, sft, sl cal.
SS 90%: gy-dkgy-wht-clr, vfg-mg, rnd-sub rnd, sft, md cal, carb incl, fri, nsf, slw str wh cut. SH 10%: dkgy, plty-sbplty, slty, grty, sft, sl cal.
SS 90%: gy-dkgy-wht-clr, vfg-mg, rnd-sub rnd, sft, md cal, carb incl, fri, nsf, slw str wh cut. SH 10%: dkgy, plty-sbplty, slty, grty, sft, sl cal.
SS 90%: gy-dkgy-wht-clr, vfg
md cal, carb incl, fri, nsf, slw
dkgy, plty-sbplty, slty, grty,

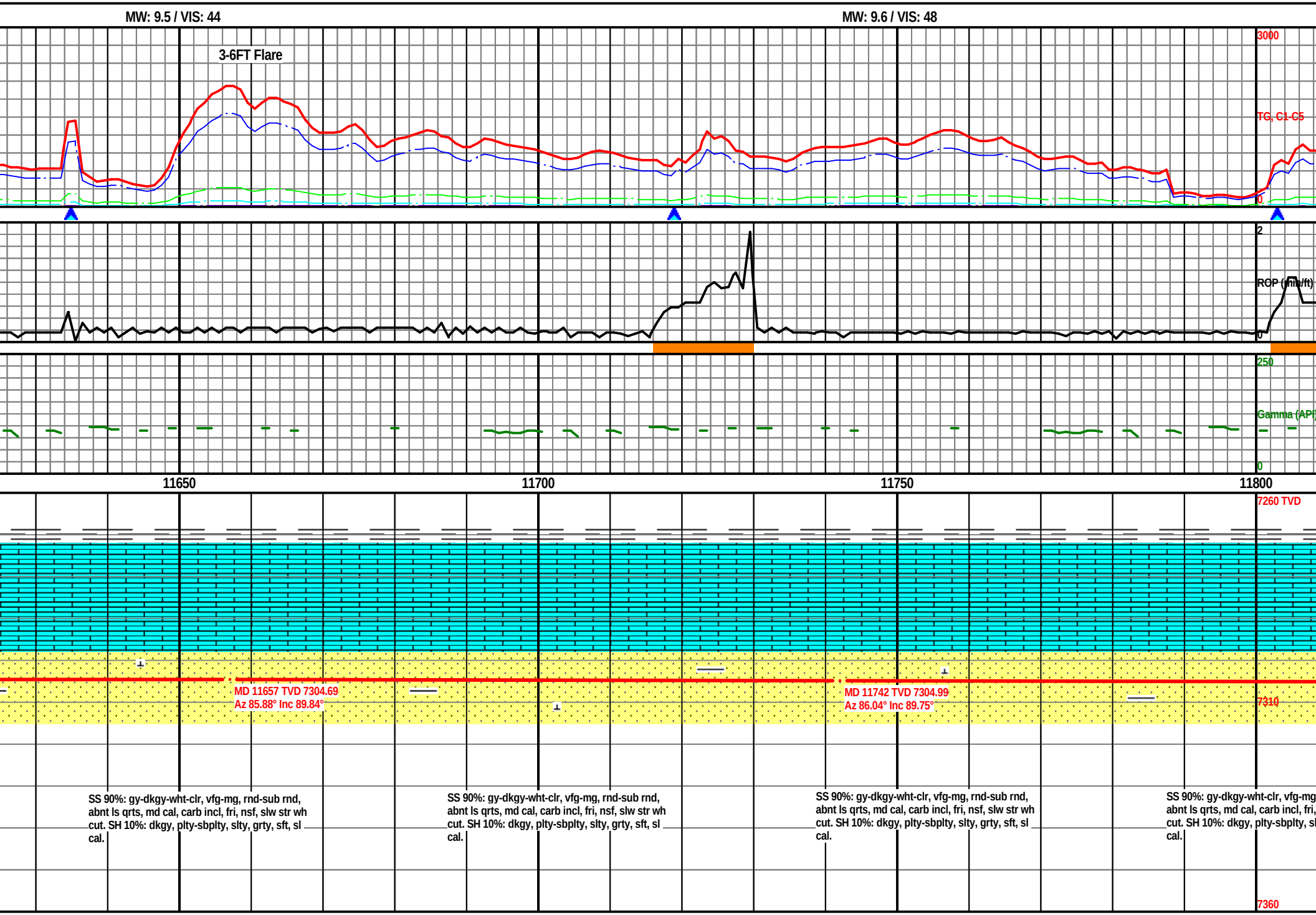

MW: 9.5 / VIS: 44
MW: 9.5 / VIS: 44
3000
TG, C1-C5
0
2
ROP (min/ft)
0
250
Gamma (API)
0
10750
10800
10850
7260 TVD
MD 10721 TVD 7306.6
Az 87.22° Inc 90.21°
MD 10806 TVD 7306.09
Az 85.83° Inc 90.49°
7310
-mg, rnd-sub
str wh cut. S
f
SS 90%: gy-dkgy-wht-clr, vfg-mg, rnd-sub rnd, sft,
md cal, carb incl, fri, nsf, slw str wh cut. SH 10%:
dkgy, plty-sbplty, slty, grty, sft, sl cal.
SS 90%: gy-dkgy-wht-clr, vfg-mg, rnd-sub rnd, sft,
md cal, carb incl, fri, nsf, slw str wh cut. SH 10%:
dkgy, plty-sbplty, slty, grty, sft, sl cal.
SS 90%: gy-dkgy-wht-clr, vfg-mg, rnd-sub rnd, sft,
md cal, carb incl, fri, nsf, slw str wh cut. SH 10%:
dkgy, plty-sbplty, slty, grty, sft, sl cal.
7360

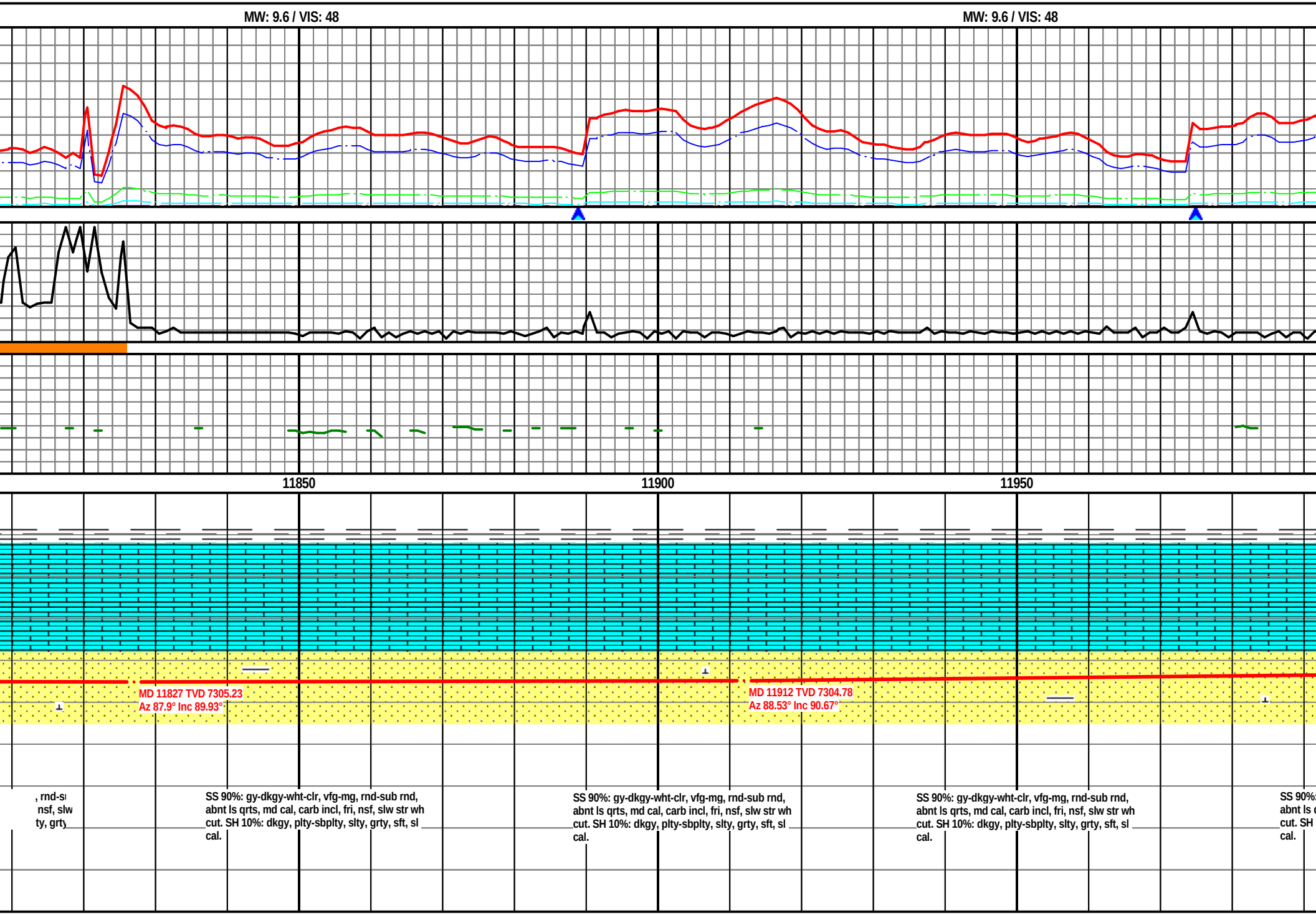

MW: 9.5 / VIS: 44
MW: 9.5 / VIS: 44
3-6FT Flare
Gas Show #3
10930' - 11787'
3000
TG, C1-C5
0
2
ROP (min/ft)
0
250
Gamma (API)
0
10900
10950
11000
11050
7260 TVD
D 10890 TVD
86.73° In
MD 10975 TVD 7304.14
Az 86.37° Inc 90.92°
7310
MD 11061 TVD 7302.8
Az 86.43° Inc 90.86°
: gy-dkgy-wht-clr, vfg-mg, rnd-sub
incl, fri, nsf, slw str wh cut. S
ty-sbplty, slty, grty, sf
SS 90%: gy-dkgy-wht-clr, vfg-mg, rnd-sub rnd, md
cal, carb incl, fri, nsf, slw str wh cut. SH 10%:
dkgy, plty-sbplty, slty, grty, sft, sl cal.
SS 90%: gy-dkgy-wht-clr, vfg-mg, rnd-sub rnd, md
cal, carb incl, fri, nsf, slw str wh cut. SH 10%:
dkgy, plty-sbplty, slty, grty, sft, sl cal.
SS 90%: gy-dkgy-wht-clr, vfg-mg, rnd-sub rnd, md
cal, carb incl, fri, nsf, slw str wh cut. SH 10%:
dkgy, plty-sbplty, slty, grty, sft, sl cal.
7360

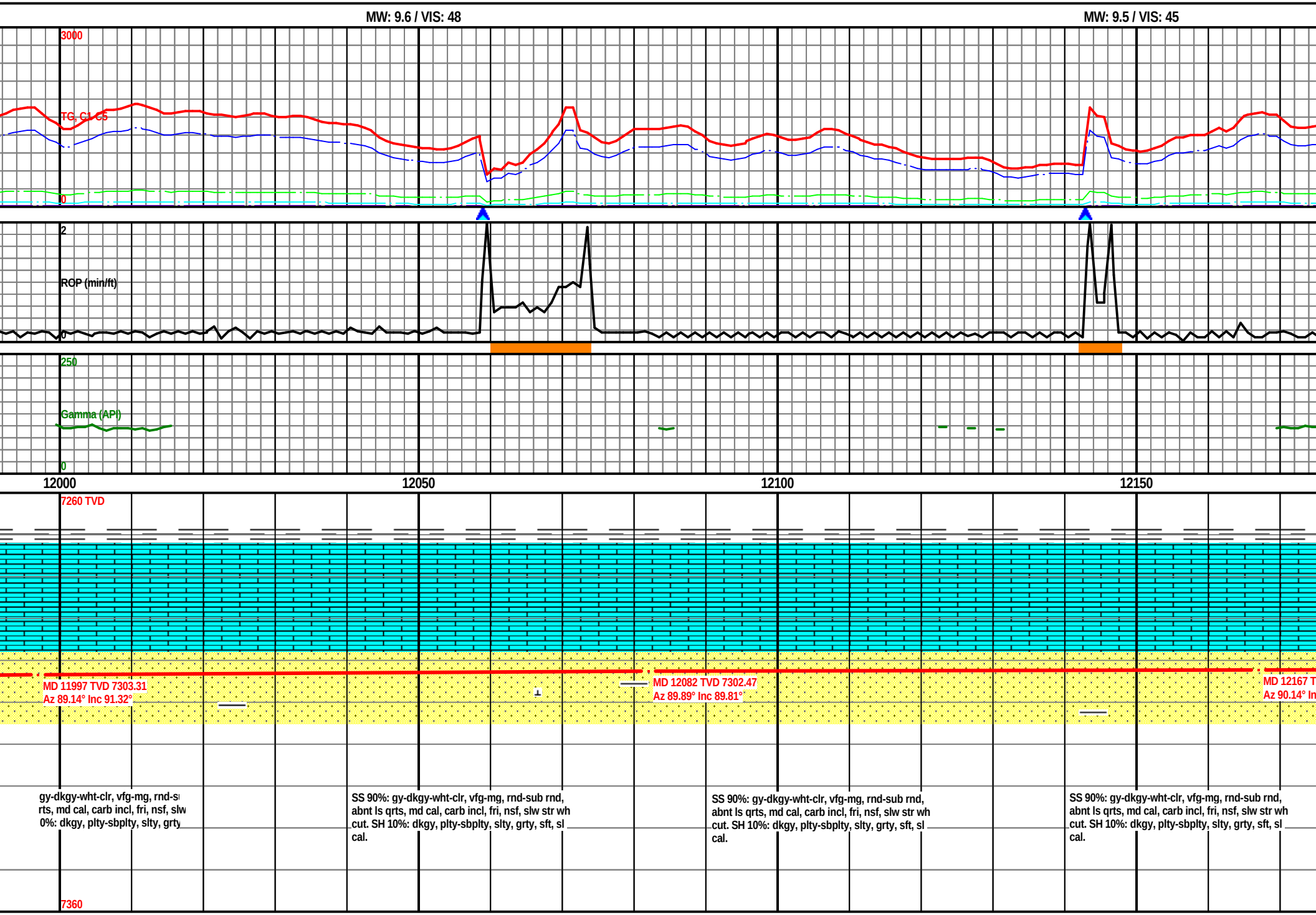

MW: 9.5 / VIS: 44
MW: 9.5 / VIS: 44
3000
TG, C1-C5
0
2
ROP (min/ft)
0
250
Gamma (API)
0
11100
11150
11200
11250
Fault- Mid Codell to Upper Codell
7260 TVD
MD 11146 TVD 7301.97
Az 85.71° Inc 90.27°
MD 11231 TVD 7302.16
Az 85.19° Inc 89.47°
7310
7360
SS 90%: gy-dkgy-wht-clr, vfg-mg, rnd-sub rnd, abnt ls qrts, md cal, carb incl, fri, nsf, slw str wh cut. SH 10%: dkgy, plty-sbplty, slty, grty, sft, sl cal.
SS 90%: gy-dkgy-wht-clr, vfg-mg, rnd-sub rnd, abnt ls qrts, md cal, carb incl, fri, nsf, slw str wh cut. SH 10%: dkgy, plty-sbplty, slty, grty, sft, sl cal.
SS 90%: gy-dkgy-wht-clr, vfg-mg, rnd-sub rnd, abnt ls qrts, md cal, carb incl, fri, nsf, slw str wh cut. SH 10%: dkgy, plty-sbplty, slty, grty, sft, sl cal.
SS 90%: gy-dkgy-wht-clr, vfg-m
abnt ls qrts, md cal, carb incl, f
cut. SH 10%: dkgy, plty-sbplty,
cal.

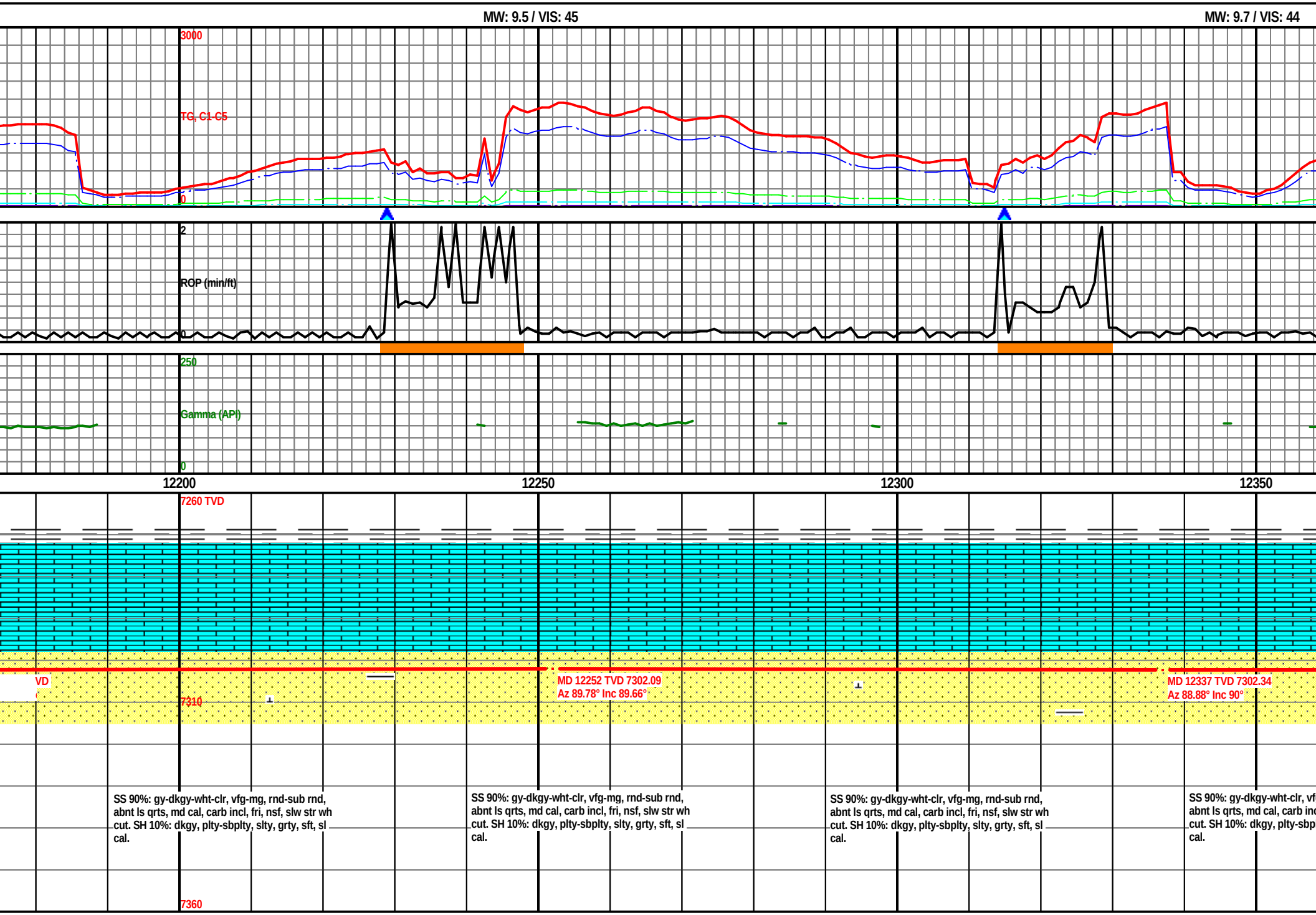

MW: 9.5 / VIS: 44
3-6FT Flare
3-6FT Flare
3000
TG, C1-C5
0
2
ROP (min/ft)
0
250
Gamma (API)
0
11300
11350
11400
7260 TVD
MD 11316 TVD 7302.97
Az 85.21° Inc 89.44°
MD 11402 TVD 7303.72
Az 84.57° Inc 89.56°
731
SS 90%: gy-dkgy-wht-clr, vfg-mg, rnd-sub rnd, abnt ls qrts, md cal, carb incl, fri, nsf, slw str wh cut. SH 10%: dkgy, plty-sbplty, slty, grty, sft, sl cal.
7360

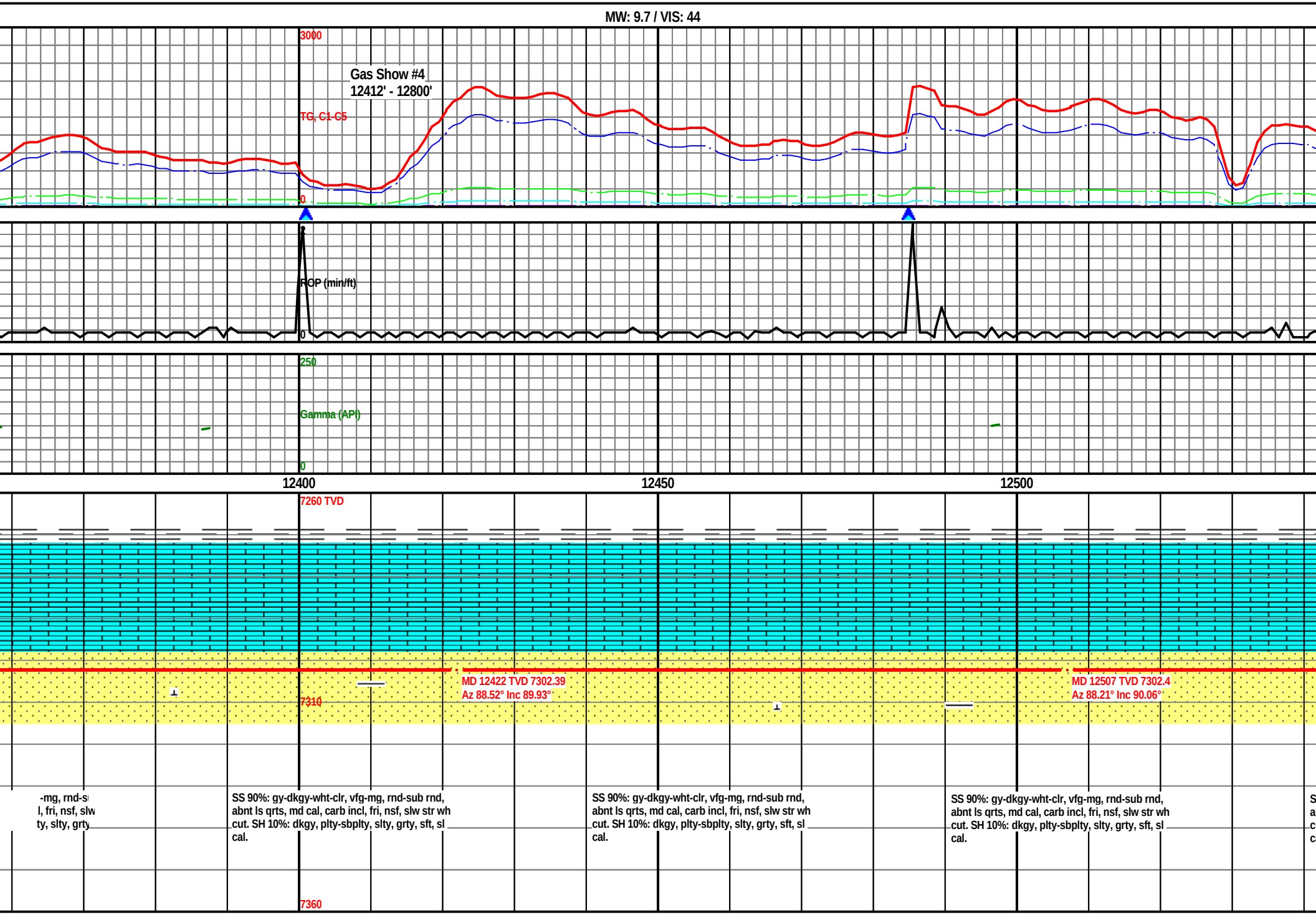

MW: 9.5 / VIS: 44
MW: 9.5 / VIS: 44
3000
TG, C1 C5
0
2
ROP (min/ft)
0
250
Gamma (API)
0
11450
11500
11550
11600
7260 TVD
MD 11487 TVD 7304.19
Az 84.48° Inc 89.81°
MD 11572 TVD 7304.45
Az 86.04° Inc 89.84°
7310
7360
gy-dkgy-wht-clr, vfg-mg, rnd-s
rts, md cal, carb incl, fri, nsf, slw
0%: dkgy, plty-sbplty, slty, grty
SS 90%: gy-dkgy-wht-clr, vfg-mg, rnd-sub rnd,
abnt ls qrts, md cal, carb incl, fri, nsf, slw str wh
cut. SH 10%: dkgy, plty-sbplty, slty, grty, sft, sl
cal.
SS 90%: gy-dkgy-wht-clr, vfg-mg, rnd-sub rnd,
abnt ls qrts, md cal, carb incl, fri, nsf, slw str wh
cut. SH 10%: dkgy, plty-sbplty, slty, grty, sft, sl
cal.
SS 90%: gy-dkgy-wht-clr, vfg-mg, rnd-sub rnd,
abnt ls qrts, md cal, carb incl, fri, nsf, slw str wh
cut. SH 10%: dkgy, plty-sbplty, slty, grty, sft, sl
cal.

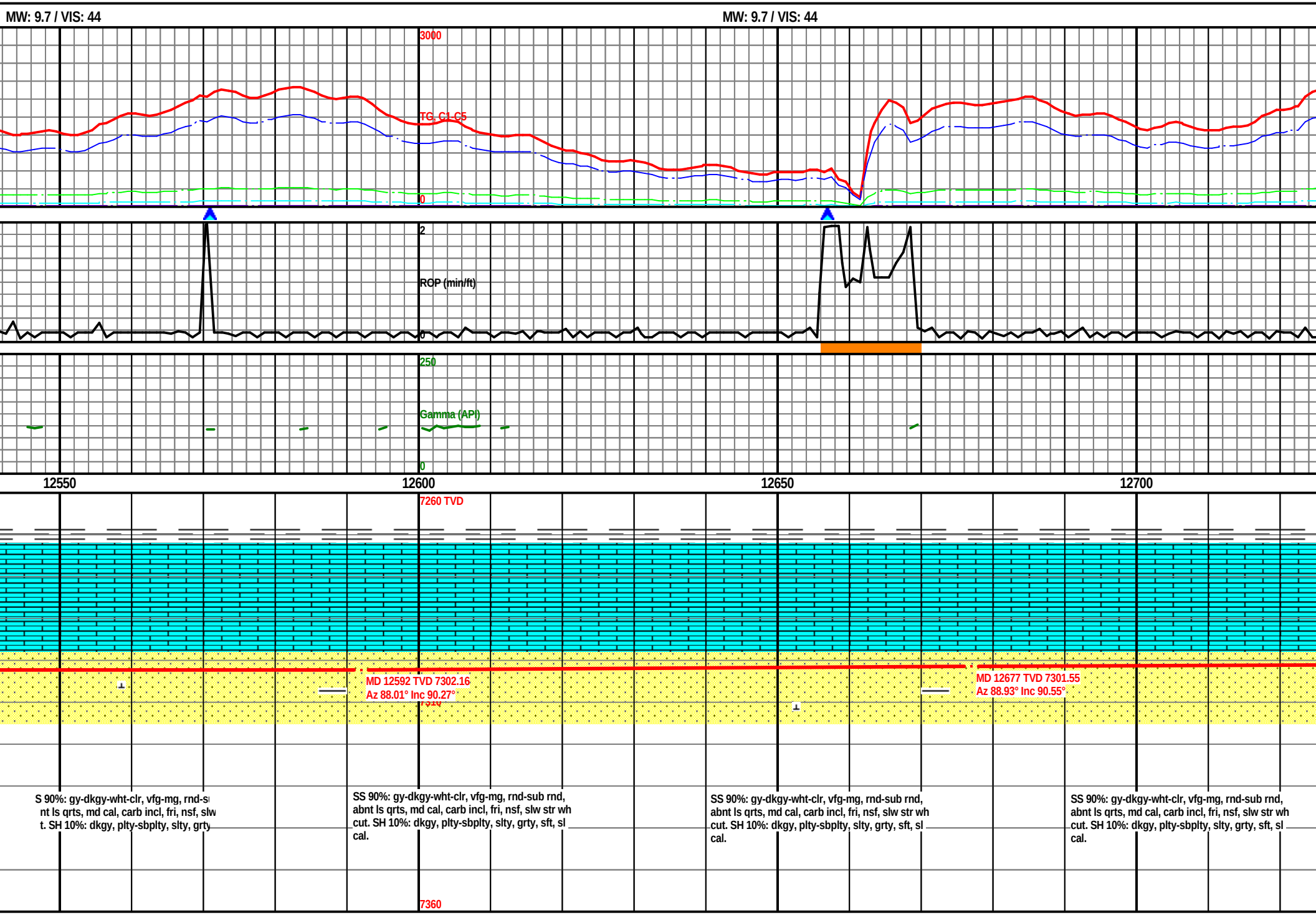

MW: 9.5 / VIS: 44
MW: 9.6 / VIS: 48
3-6FT Flare
3000
TG, C1-C5
0
2
ROP (min/ft)
0
250
Gamma (API)
0
11650
11700
11750
11800
7260 TVD
MD 11657 TVD 7304.69
Az 85.88° Inc 89.84°
MD 11742 TVD 7304.99
Az 86.04° Inc 89.75°
7310
SS 90%: gy-dkgy-wht-clr, vfg-mg, rnd-sub rnd, abnt ls qrts, md cal, carb incl, fri, nsf, slw str wh cut. SH 10%: dkgy, plty-sbplty, slty, grty, sft, sl cal.
SS 90%: gy-dkgy-wht-clr, vfg-mg, rnd-sub rnd, abnt ls qrts, md cal, carb incl, fri, nsf, slw str wh cut. SH 10%: dkgy, plty-sbplty, slty, grty, sft, sl cal.
SS 90%: gy-dkgy-wht-clr, vfg-mg, rnd-sub rnd, abnt ls qrts, md cal, carb incl, fri, nsf, slw str wh cut. SH 10%: dkgy, plty-sbplty, slty, grty, sft, sl cal.
SS 90%: gy-dkgy-wht-clr, vfg-mg
abnt ls qrts, md cal, carb incl, fri,
cut. SH 10%: dkgy, plty-sbplty, sl
cal.
7360

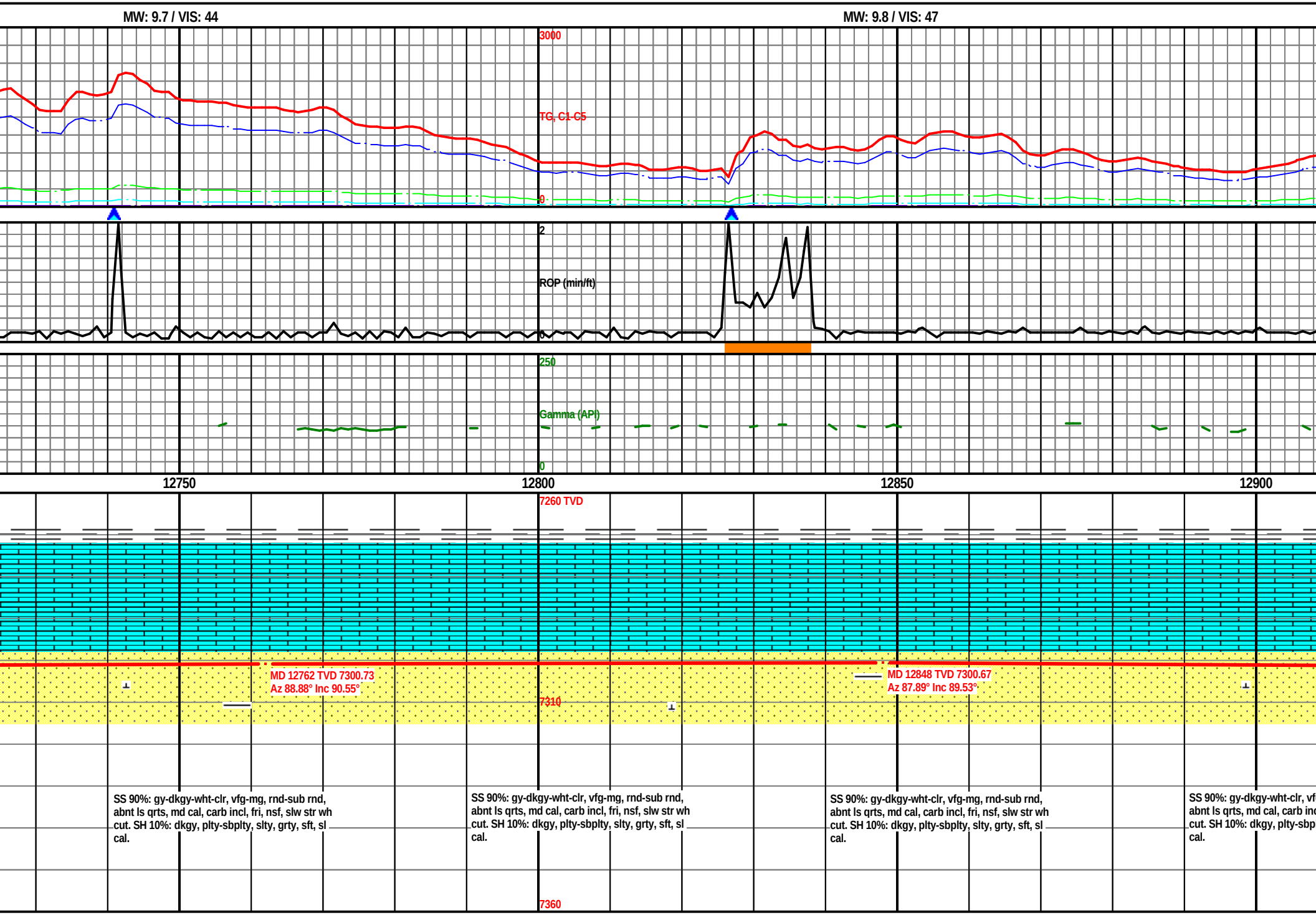

MW: 9.6 / VIS: 48
MW: 9.6 / VIS: 48
11850
11900
11950
MD 11827 TVD 7305.23
Az 87.9° Inc 89.93°
MD 11912 TVD 7304.78
Az 88.53° Inc 90.67°
SS 90%: gy-dkgy-wht-clr, vfg-mg, rnd-sub rnd, abnt ls qrts, md cal, carb incl, fri, nsf, slw str wh cut. SH 10%: dkgy, plty-sbplty, slty, grty, sft, sl cal.
SS 90%: gy-dkgy-wht-clr, vfg-mg, rnd-sub rnd, abnt ls qrts, md cal, carb incl, fri, nsf, slw str wh cut. SH 10%: dkgy, plty-sbplty, slty, grty, sft, sl cal.
SS 90%: gy-dkgy-wht-clr, vfg-mg, rnd-sub rnd, abnt ls qrts, md cal, carb incl, fri, nsf, slw str wh cut. SH 10%: dkgy, plty-sbplty, slty, grty, sft, sl cal.

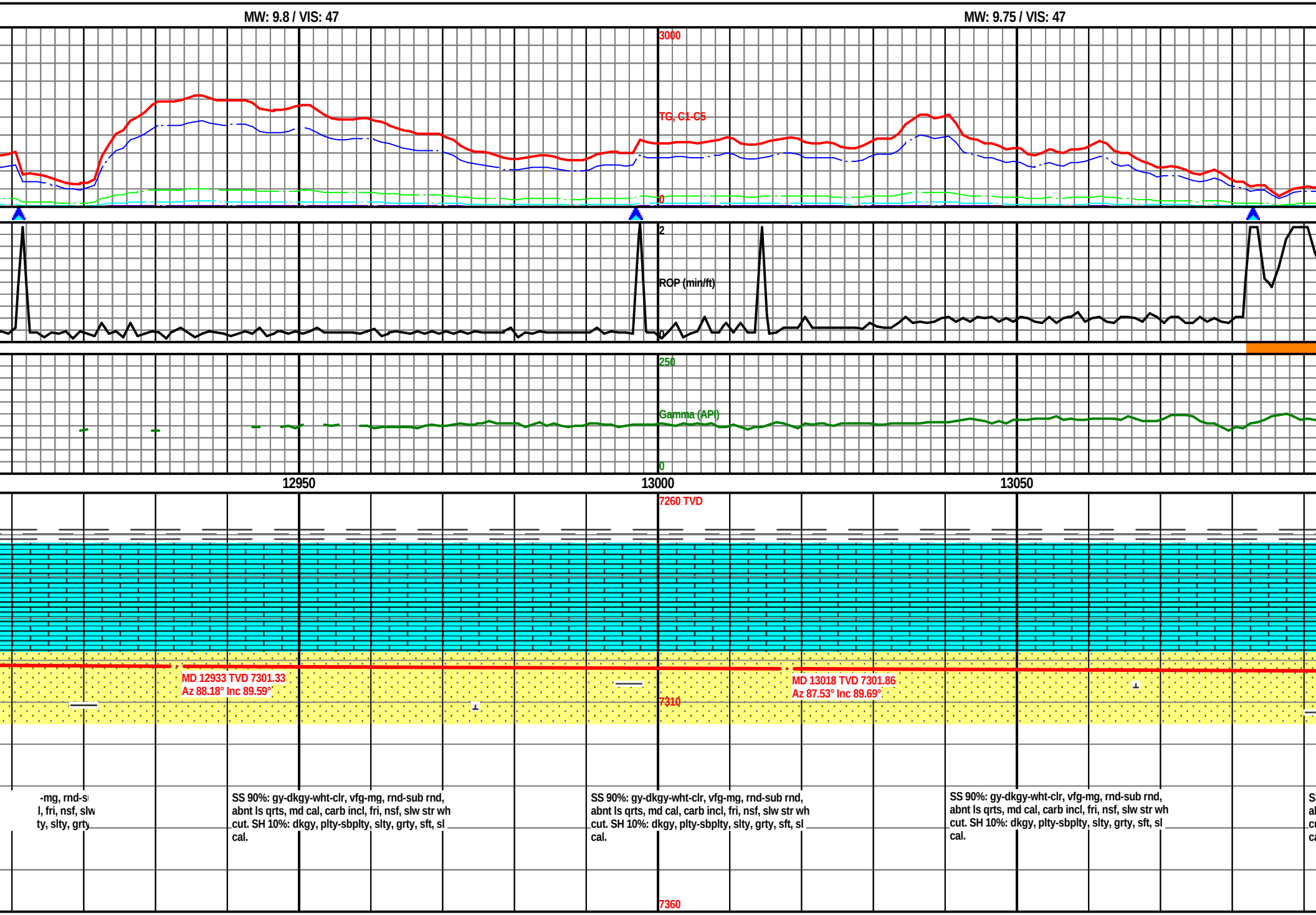

MW: 9.6 / VIS: 48
MW: 9.5 / VIS: 45
3000
TG, C1, C5
0
2
ROP (min/ft)
0
250
Gamma (API)
0
12000
12050
12100
12150
7260 TVD
MD 11997 TVD 7303.31
Az 89.14° Inc 91.32°
MD 12082 TVD 7302.47
Az 89.89° Inc 89.81°
MD 12167 T
Az 90.14° In
gy-dkgy-wht-clr, vfg-mg, rnd-s
rts, md cal, carb incl, fri, nsf, slw
0%: dkgy, plty-sbplty, slty, grty
SS 90%: gy-dkgy-wht-clr, vfg-mg, rnd-sub rnd,
abnt ls qrts, md cal, carb incl, fri, nsf, slw str wh
cut. SH 10%: dkgy, plty-sbplty, slty, grty, sft, sl
cal.
SS 90%: gy-dkgy-wht-clr, vfg-mg, rnd-sub rnd,
abnt ls qrts, md cal, carb incl, fri, nsf, slw str wh
cut. SH 10%: dkgy, plty-sbplty, slty, grty, sft, sl
cal.
SS 90%: gy-dkgy-wht-clr, vfg-mg, rnd-sub rnd,
abnt ls qrts, md cal, carb incl, fri, nsf, slw str wh
cut. SH 10%: dkgy, plty-sbplty, slty, grty, sft, sl
cal.
7360

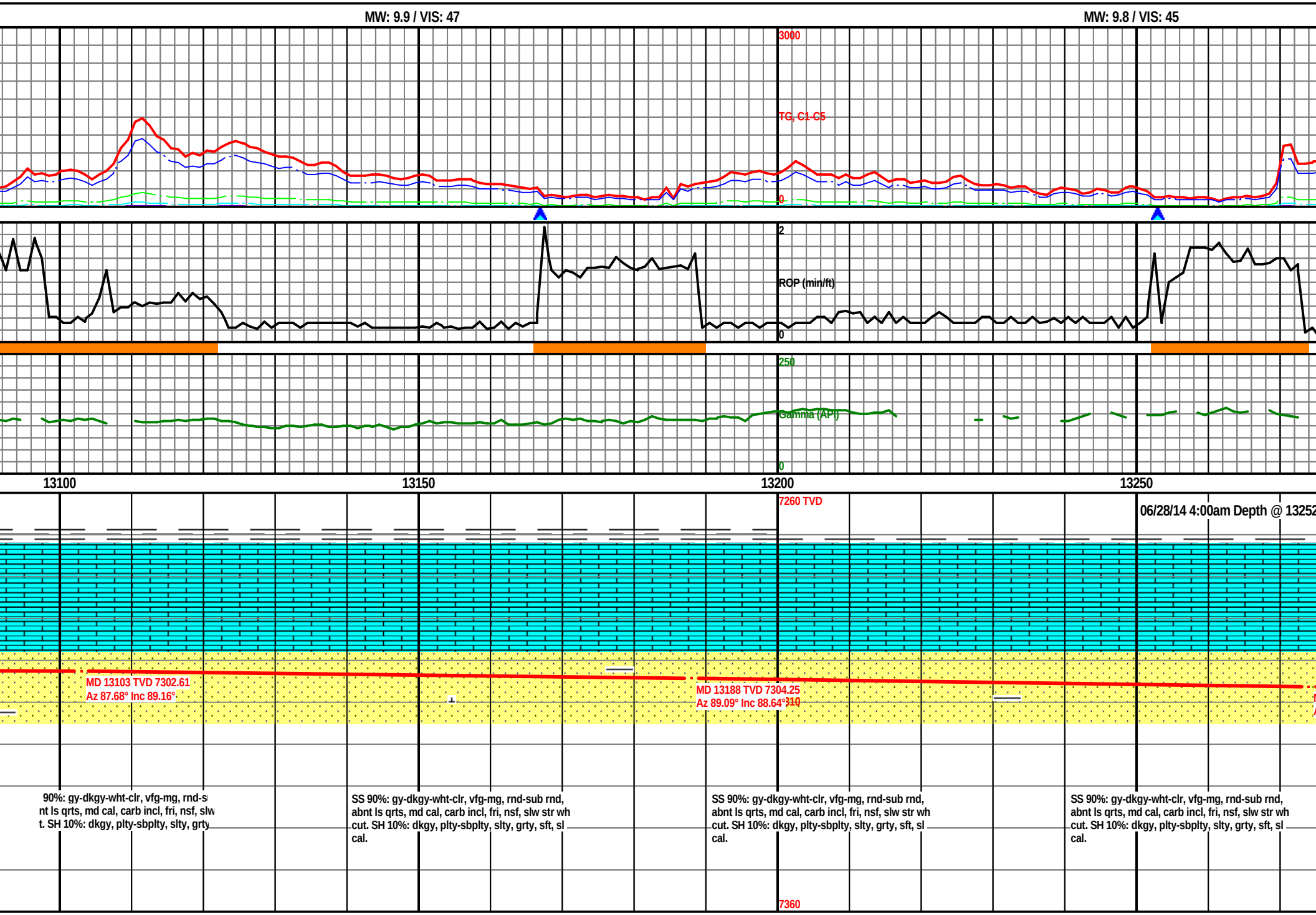

MW: 9.5 / VIS: 45
MW: 9.7 / VIS: 44
3000
TG, C1-C5
0
2
ROP (min/ft)
0
250
Gamma (API)
0
12200
12250
12300
12350
7260 TVD
VD
7310
MD 12252 TVD 7302.09
Az 89.78° Inc 89.66°
MD 12337 TVD 7302.34
Az 88.88° Inc 90°
SS 90%: gy-dkgy-wht-clr, vfg-mg, rnd-sub rnd, abnt ls qrts, md cal, carb incl, fri, nsf, slw str wh cut. SH 10%: dkgy, plty-sbplty, slty, grty, sft, sl cal.
SS 90%: gy-dkgy-wht-clr, vfg-mg, rnd-sub rnd, abnt ls qrts, md cal, carb incl, fri, nsf, slw str wh cut. SH 10%: dkgy, plty-sbplty, slty, grty, sft, sl cal.
SS 90%: gy-dkgy-wht-clr, vfg-mg, rnd-sub rnd, abnt ls qrts, md cal, carb incl, fri, nsf, slw str wh cut. SH 10%: dkgy, plty-sbplty, slty, grty, sft, sl cal.
SS 90%: gy-dkgy-wht-clr, vf
abnt ls qrts, md cal, carb inc
cut. SH 10%: dkgy, plty-sbp
cal.
7360

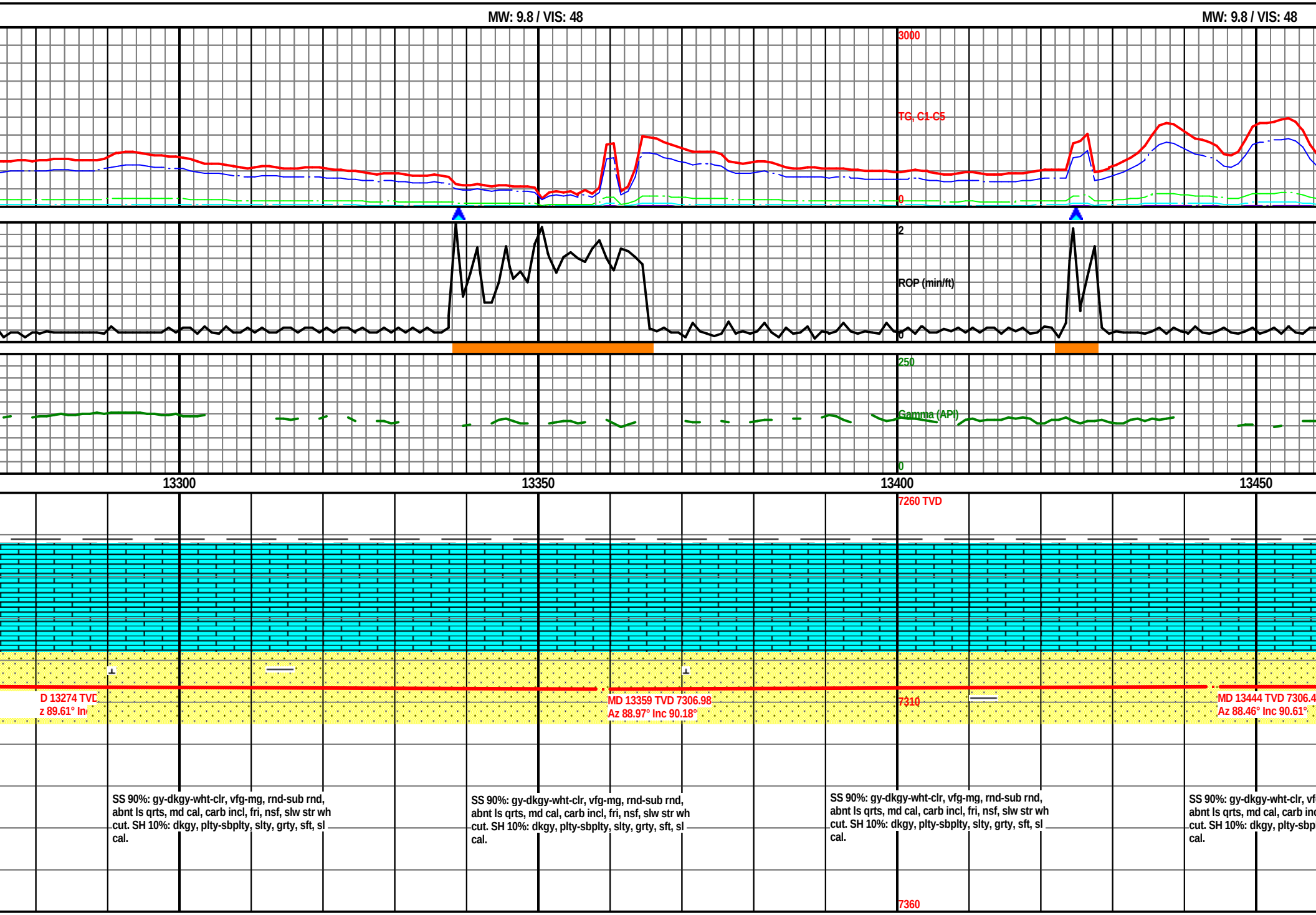

MW: 9.7 / VIS: 44
3000
Gas Show #4
12412' - 12800'
TG, C1 C5
0
ROP (min/ft)
0
250
Gamma (API)
0
12400
12450
12500
7260 TVD
MD 12422 TVD 7302.39
Az 88.52° Inc 89.93°
MD 12507 TVD 7302.4
Az 88.21° Inc 90.06°
7310
-mg, rnd-s
l, fri, nsf, slw
ty, slty, grty
SS 90%: gy-dkgy-wht-clr, vfg-mg, rnd-sub rnd, abnt ls qrts, md cal, carb incl, fri, nsf, slw str wh cut. SH 10%: dkgy, plty-sbplty, slty, grty, sft, sl cal.
SS 90%: gy-dkgy-wht-clr, vfg-mg, rnd-sub rnd, abnt ls qrts, md cal, carb incl, fri, nsf, slw str wh cut. SH 10%: dkgy, plty-sbplty, slty, grty, sft, sl cal.
SS 90%: gy-dkgy-wht-clr, vfg-mg, rnd-sub rnd, abnt ls qrts, md cal, carb incl, fri, nsf, slw str wh cut. SH 10%: dkgy, plty-sbplty, slty, grty, sft, sl cal.
7360

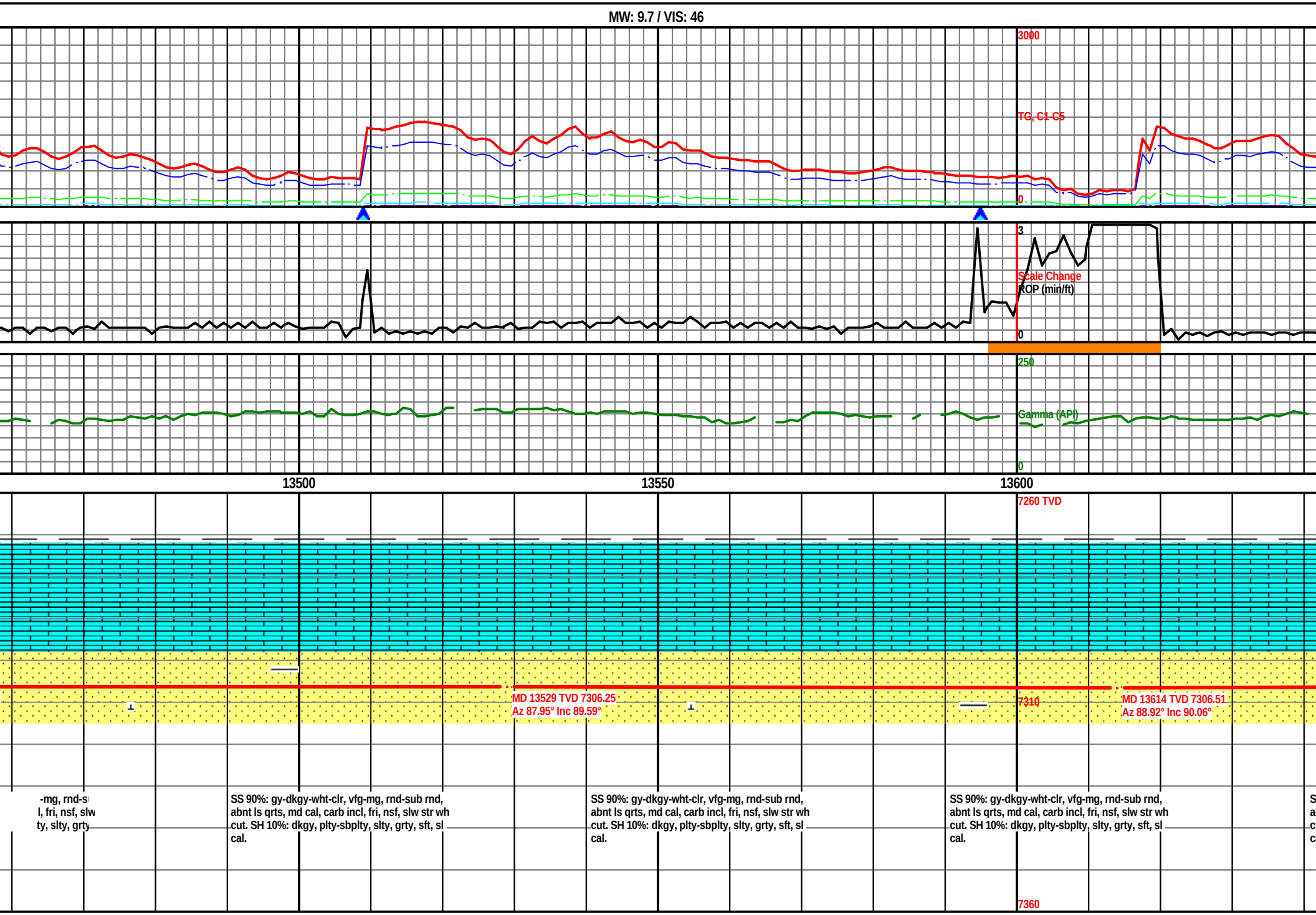

MW: 9.7 / VIS: 44
MW: 9.7 / VIS: 44
3000
TG, C1-C5
0
2
ROP (min/ft)
0
250
Gamma (API)
0
12550
12600
12650
12700
7260 TVD
MD 12592 TVD 7302.16
Az 88.01° Inc 90.27°
MD 12677 TVD 7301.55
Az 88.93° Inc 90.55°
S 90%: gy-dkgy-wht-clr, vfg-mg, rnd-s
nt ls qrts, md cal, carb incl, fri, nsf, slw
t. SH 10%: dkgy, plty-sbplty, slty, grty
SS 90%: gy-dkgy-wht-clr, vfg-mg, rnd-sub rnd,
abnt ls qrts, md cal, carb incl, fri, nsf, slw str wh
cut. SH 10%: dkgy, plty-sbplty, slty, grty, sft, sl
cal.
SS 90%: gy-dkgy-wht-clr, vfg-mg, rnd-sub rnd,
abnt ls qrts, md cal, carb incl, fri, nsf, slw str wh
cut. SH 10%: dkgy, plty-sbplty, slty, grty, sft, sl
cal.
SS 90%: gy-dkgy-wht-clr, vfg-mg, rnd-sub rnd,
abnt ls qrts, md cal, carb incl, fri, nsf, slw str wh
cut. SH 10%: dkgy, plty-sbplty, slty, grty, sft, sl
cal.
7360

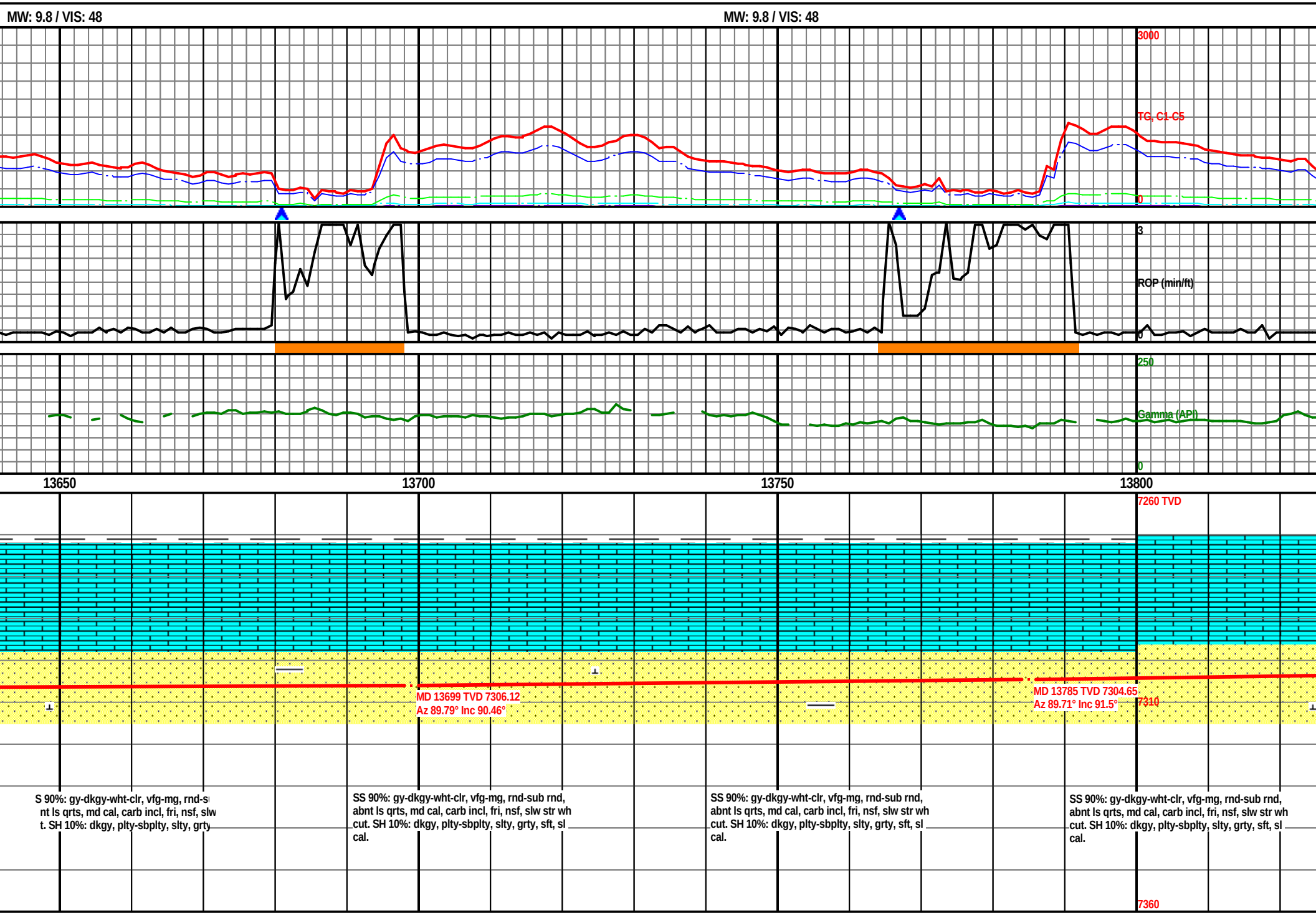

MW: 9.7 / VIS: 44
MW: 9.8 / VIS: 47
3000
TG, C1-C5
0
2
ROP (min/ft)
0
250
Gamma (API)
0
12750
12800
12850
12900
7260 TVD
MD 12762 TVD 7300.73
Az 88.88° Inc 90.55°
MD 12848 TVD 7300.67
Az 87.89° Inc 89.53°
7310
SS 90%: gy-dkgy-wht-clr, vfg-mg, rnd-sub rnd, abnt ls qrts, md cal, carb incl, fri, nsf, slw str wh cut. SH 10%: dkgy, plty-sbplty, slty, grty, sft, sl cal.
SS 90%: gy-dkgy-wht-clr, vfg-mg, rnd-sub rnd, abnt ls qrts, md cal, carb incl, fri, nsf, slw str wh cut. SH 10%: dkgy, plty-sbplty, slty, grty, sft, sl cal.
SS 90%: gy-dkgy-wht-clr, vfg-mg, rnd-sub rnd, abnt ls qrts, md cal, carb incl, fri, nsf, slw str wh cut. SH 10%: dkgy, plty-sbplty, slty, grty, sft, sl cal.
SS 90%: gy-dkgy-wht-clr, vf
abnt ls qrts, md cal, carb inc
cut. SH 10%: dkgy, plty-sbp
cal.
7360

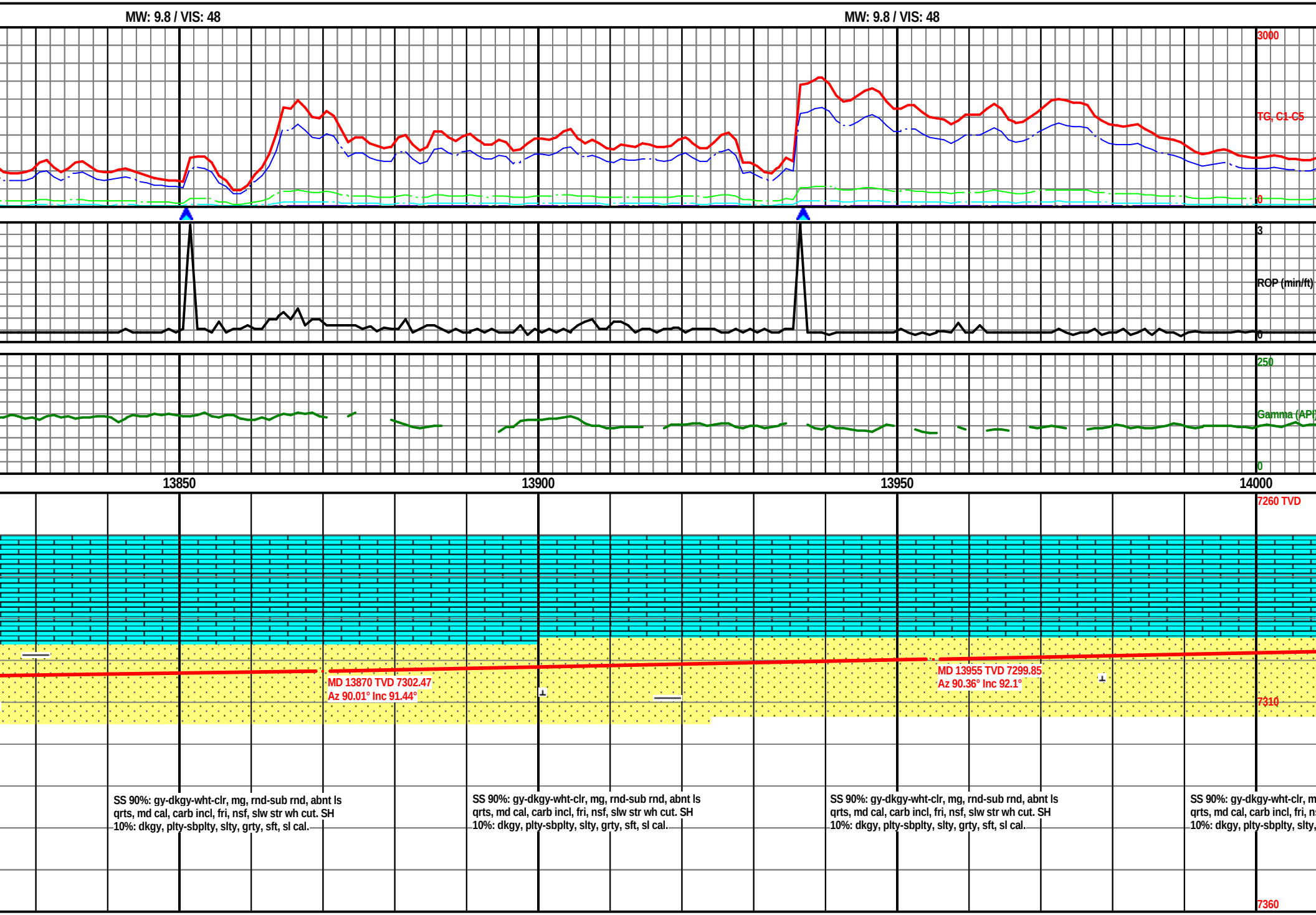

MW: 9.8 / VIS: 47
MW: 9.75 / VIS: 47
3000
TG, C1-C5
0
2
ROP (min/ft)
0
250
Gamma (API)
0
12950
13000
13050
7260 TVD
MD 12933 TVD 7301.33
Az 88.18° Inc 89.59°
MD 13018 TVD 7301.86
Az 87.53° Inc 89.69°
7310
-mg, rnd-s
l, fri, nsf, slw
ty, slty, grty
SS 90%: gy-dkgy-wht-clr, vfg-mg, rnd-sub rnd, abnt ls qrts, md cal, carb incl, fri, nsf, slw str wh cut. SH 10%: dkgy, plty-sbplty, slty, grty, sft, sl cal.
SS 90%: gy-dkgy-wht-clr, vfg-mg, rnd-sub rnd, abnt ls qrts, md cal, carb incl, fri, nsf, slw str wh cut. SH 10%: dkgy, plty-sbplty, slty, grty, sft, sl cal.
SS 90%: gy-dkgy-wht-clr, vfg-mg, rnd-sub rnd, abnt ls qrts, md cal, carb incl, fri, nsf, slw str wh cut. SH 10%: dkgy, plty-sbplty, slty, grty, sft, sl cal.
7360

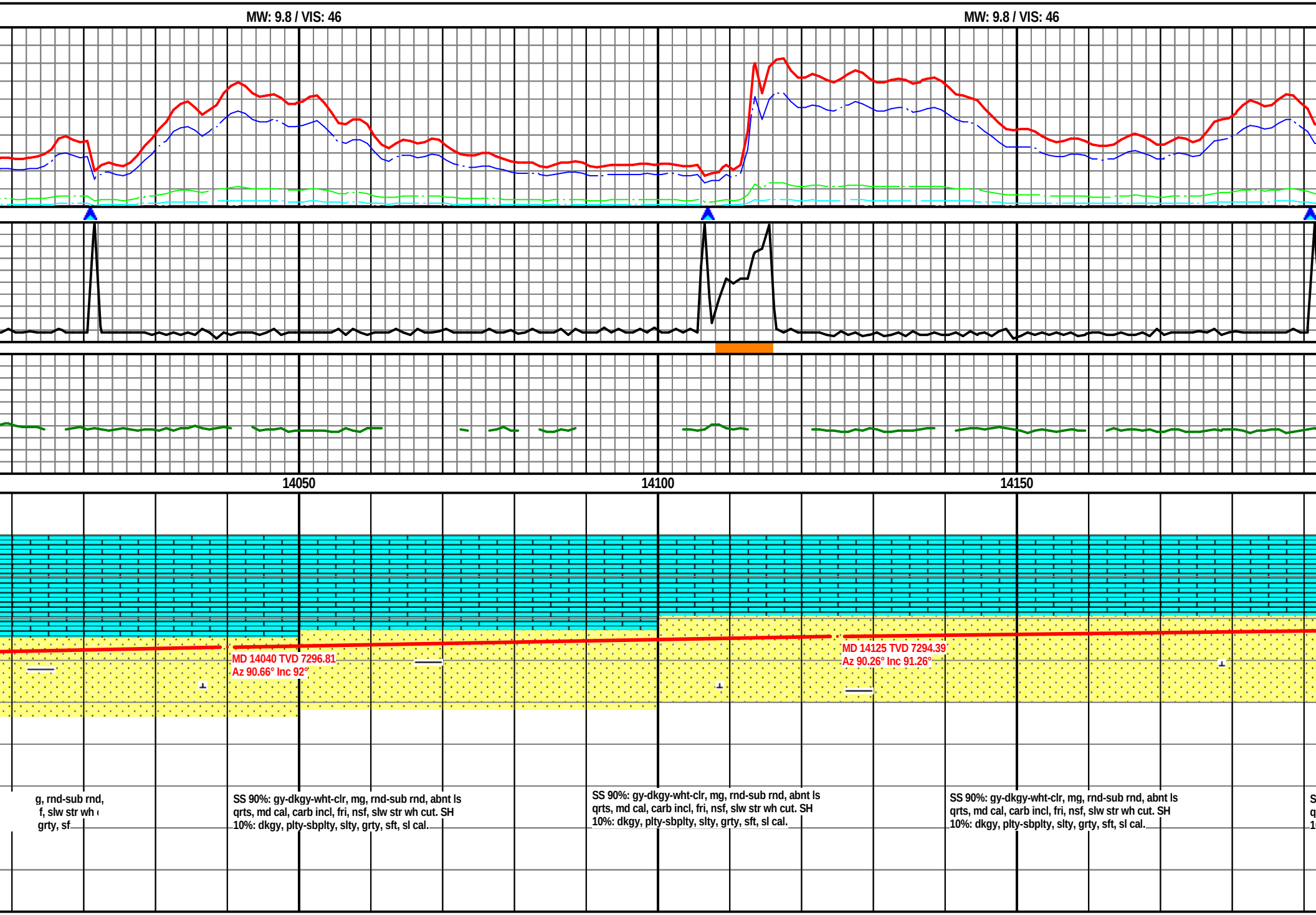

MW: 9.9 / VIS: 47
MW: 9.8 / VIS: 45
3000
TG, C1-C5
0
2
ROP (min/ft)
0
250
Gamma (API)
0
13100
13150
13200
13250
7260 TVD
06/28/14 4:00am Depth @ 13252
MD 13103 TVD 7302.61
Az 87.68° Inc 89.16°
MD 13188 TVD 7304.25
Az 89.09° Inc 88.64°
7310
90%: gy-dkgy-wht-clr, vfg-mg, rnd-s
nt ls qrts, md cal, carb incl, fri, nsf, slw
t. SH 10%: dkgy, plty-sbplty, slty, grty
SS 90%: gy-dkgy-wht-clr, vfg-mg, rnd-sub rnd,
abnt ls qrts, md cal, carb incl, fri, nsf, slw str wh
cut. SH 10%: dkgy, plty-sbplty, slty, grty, sft, sl
cal.
SS 90%: gy-dkgy-wht-clr, vfg-mg, rnd-sub rnd,
abnt ls qrts, md cal, carb incl, fri, nsf, slw str wh
cut. SH 10%: dkgy, plty-sbplty, slty, grty, sft, sl
cal.
SS 90%: gy-dkgy-wht-clr, vfg-mg, rnd-sub rnd,
abnt ls qrts, md cal, carb incl, fri, nsf, slw str wh
cut. SH 10%: dkgy, plty-sbplty, slty, grty, sft, sl
cal.
7360

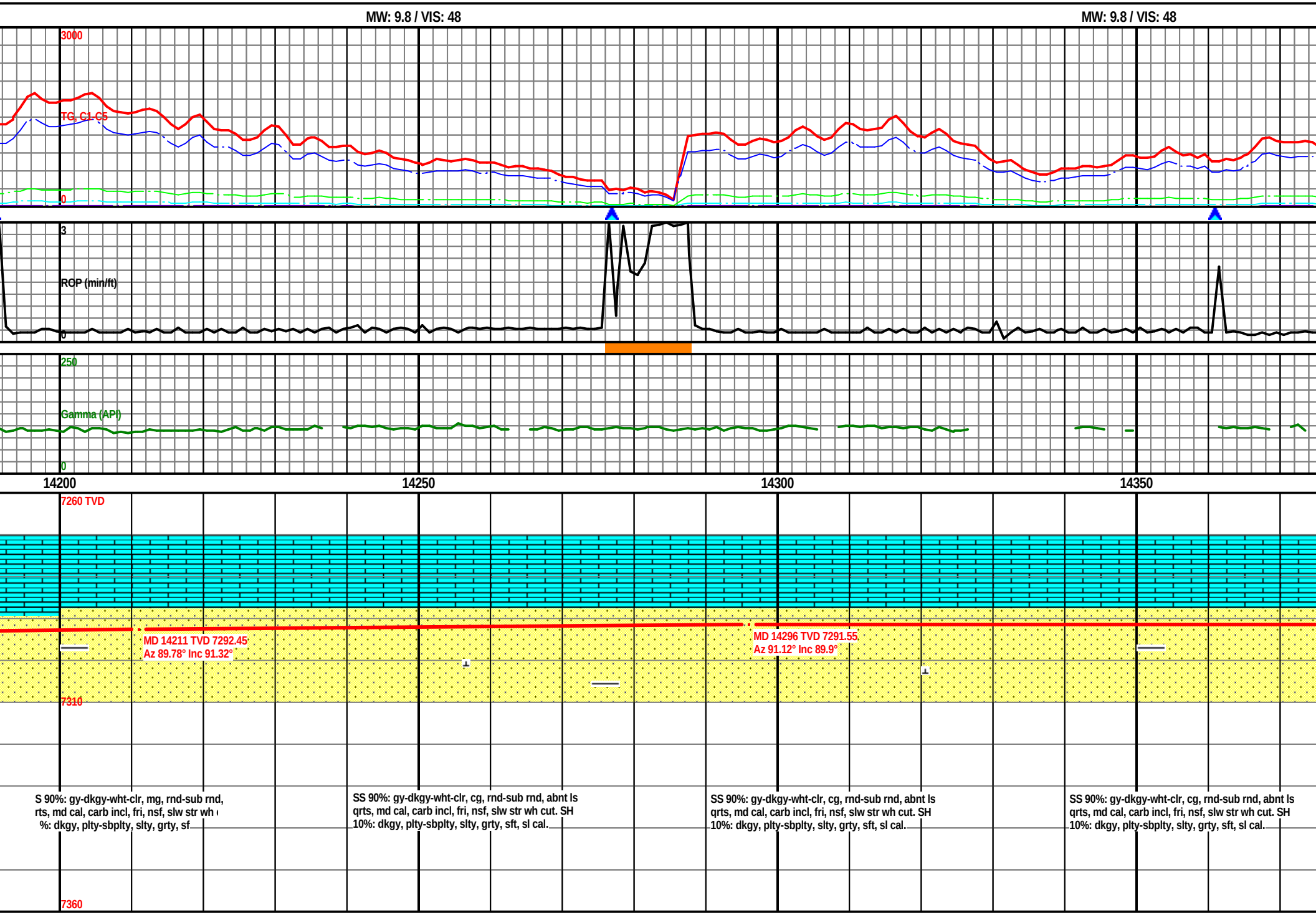

MW: 9.8 / VIS: 48
MW: 9.8 / VIS: 48
3000
TG, C1-C5
0
2
ROP (min/ft)
0
250
Gamma (API)
0
13300
13350
13400
13450
7260 TVD
7310
7360
D 13274 TVD
z 89.61° Inc
MD 13359 TVD 7306.98
Az 88.97° Inc 90.18°
MD 13444 TVD 7306.4
Az 88.46° Inc 90.61°
SS 90%: gy-dkgy-wht-clr, vfg-mg, rnd-sub rnd, abnt ls qrts, md cal, carb incl, fri, nsf, slw str wh cut. SH 10%: dkgy, plty-sbplty, slty, grty, sft, sl cal.
SS 90%: gy-dkgy-wht-clr, vfg-mg, rnd-sub rnd, abnt ls qrts, md cal, carb incl, fri, nsf, slw str wh cut. SH 10%: dkgy, plty-sbplty, slty, grty, sft, sl cal.
SS 90%: gy-dkgy-wht-clr, vfg-mg, rnd-sub rnd, abnt ls qrts, md cal, carb incl, fri, nsf, slw str wh cut. SH 10%: dkgy, plty-sbplty, slty, grty, sft, sl cal.
SS 90%: gy-dkgy-wht-clr, vf
abnt ls qrts, md cal, carb inc
cut. SH 10%: dkgy, plty-sbp
cal.

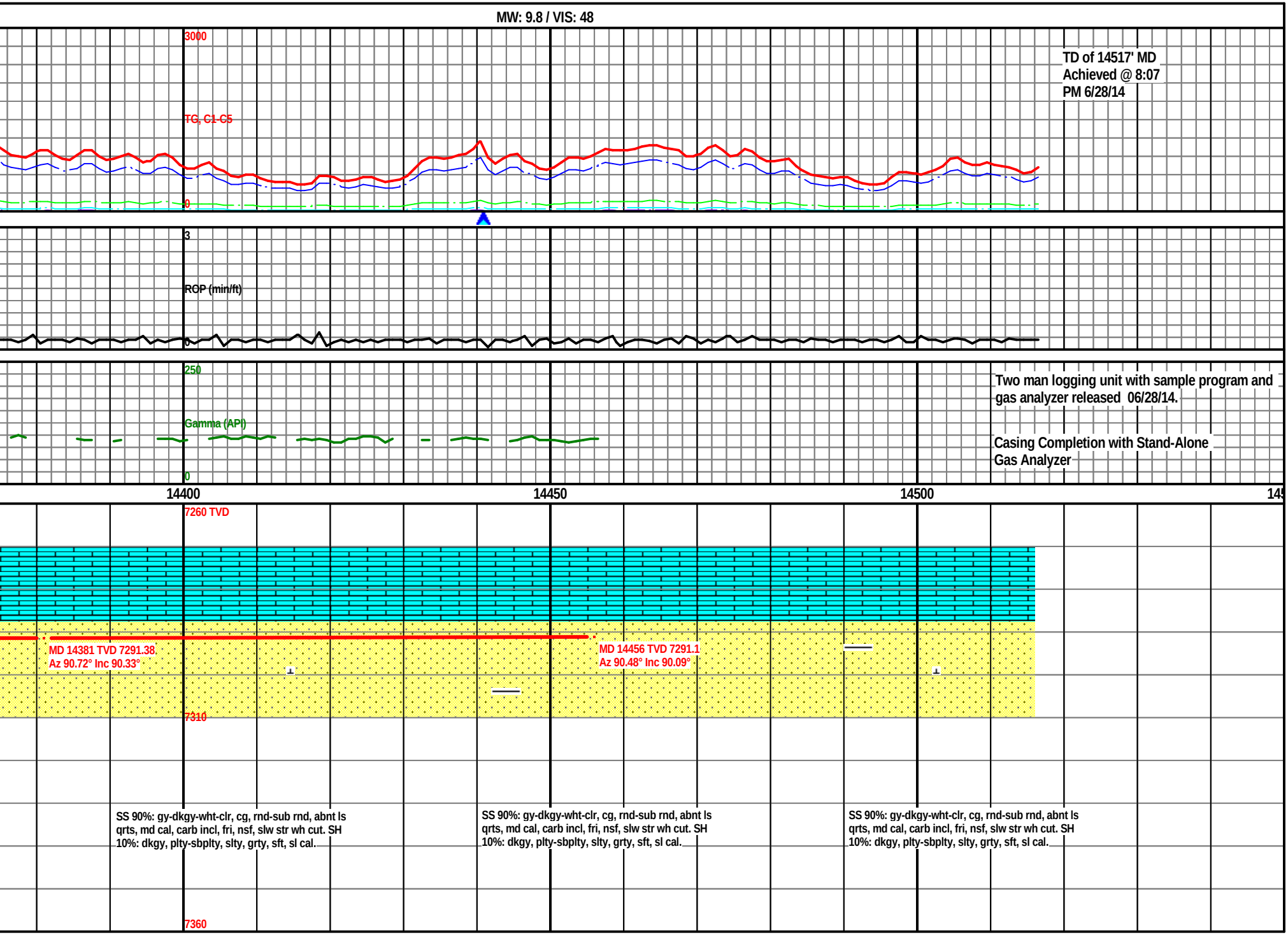

MW: 9.7 / VIS: 46
3000
TG, C1-C5
0
3
Scale Change
ROP (min/ft)
0
250
Gamma (API)
0
13500
13550
13600
7260 TVD
MD 13529 TVD 7306.25
Az 87.95° Inc 89.59°
MD 13614 TVD 7306.51
Az 88.92° Inc 90.06°
7310
7360
-mg, rnd-s
l, fri, nsf, slw
ty, slty, grty
SS 90%: gy-dkgy-wht-clr, vfg-mg, rnd-sub rnd, abnt ls qrts, md cal, carb incl, fri, nsf, slw str wh cut. SH 10%: dkgy, plty-sbplty, slty, grty, sft, sl cal.
SS 90%: gy-dkgy-wht-clr, vfg-mg, rnd-sub rnd, abnt ls qrts, md cal, carb incl, fri, nsf, slw str wh cut. SH 10%: dkgy, plty-sbplty, slty, grty, sft, sl cal.
SS 90%: gy-dkgy-wht-clr, vfg-mg, rnd-sub rnd, abnt ls qrts, md cal, carb incl, fri, nsf, slw str wh cut. SH 10%: dkgy, plty-sbplty, slty, grty, sft, sl cal.


MW: 9.8 / VIS: 48
MW: 9.8 / VIS: 48
3000
TG, C1 C5
0
3
ROP (min/ft)
0
250
Gamma (API)
0
13650
13700
13750
13800
7260 TVD
MD 13699 TVD 7306.12
Az 89.79° Inc 90.46°
MD 13785 TVD 7304.65
Az 89.71° Inc 91.5°
7310
7360
S 90%: gy-dkgy-wht-clr, vfg-mg, rnd-s
nt ls qrts, md cal, carb incl, fri, nsf, slw
t. SH 10%: dkgy, plty-sbplty, slty, grty
SS 90%: gy-dkgy-wht-clr, vfg-mg, rnd-sub rnd,
abnt ls qrts, md cal, carb incl, fri, nsf, slw str wh
cut. SH 10%: dkgy, plty-sbplty, slty, grty, sft, sl
cal.
SS 90%: gy-dkgy-wht-clr, vfg-mg, rnd-sub rnd,
abnt ls qrts, md cal, carb incl, fri, nsf, slw str wh
cut. SH 10%: dkgy, plty-sbplty, slty, grty, sft, sl
cal.
SS 90%: gy-dkgy-wht-clr, vfg-mg, rnd-sub rnd,
abnt ls qrts, md cal, carb incl, fri, nsf, slw str wh
cut. SH 10%: dkgy, plty-sbplty, slty, grty, sft, sl
cal.


MW: 9.8 / VIS: 48
MW: 9.8 / VIS: 48
3000
TG, C1-C5
0
3
ROP (min/ft)
0
250
Gamma (API)
0
13850
13900
13950
14000
7260 TVD
MD 13870 TVD 7302.47
Az 90.01° Inc 91.44°
MD 13955 TVD 7299.85
Az 90.36° Inc 92.1°
7310
SS 90%: gy-dkgy-wht-clr, mg, rnd-sub rnd, abnt ls qrts, md cal, carb incl, fri, nsf, slw str wh cut. SH 10%: dkgy, plty-sbplty, slty, grty, sft, sl cal.
SS 90%: gy-dkgy-wht-clr, mg, rnd-sub rnd, abnt ls qrts, md cal, carb incl, fri, nsf, slw str wh cut. SH 10%: dkgy, plty-sbplty, slty, grty, sft, sl cal.
SS 90%: gy-dkgy-wht-clr, mg, rnd-sub rnd, abnt ls qrts, md cal, carb incl, fri, nsf, slw str wh cut. SH 10%: dkgy, plty-sbplty, slty, grty, sft, sl cal.
7360


MW: 9.8 / VIS: 46
MW: 9.8 / VIS: 46
14050
14100
14150
MD 14040 TVD 7296.81
Az 90.66° Inc 92°
MD 14125 TVD 7294.39
Az 90.26° Inc 91.26°
g, rnd-sub rnd,
f, slw str wh
grty, sf
SS 90%: gy-dkgy-wht-clr, mg, rnd-sub rnd, abnt ls qrts, md cal, carb incl, fri, nsf, slw str wh cut. SH 10%: dkgy, plty-sbplty, slty, grty, sft, sl cal.
SS 90%: gy-dkgy-wht-clr, mg, rnd-sub rnd, abnt ls qrts, md cal, carb incl, fri, nsf, slw str wh cut. SH 10%: dkgy, plty-sbplty, slty, grty, sft, sl cal.
SS 90%: gy-dkgy-wht-clr, mg, rnd-sub rnd, abnt ls qrts, md cal, carb incl, fri, nsf, slw str wh cut. SH 10%: dkgy, plty-sbplty, slty, grty, sft, sl cal.


MW: 9.8 / VIS: 48
MW: 9.8 / VIS: 48
3000
TG, C1-C5
0
3
ROP (min/ft)
0
250
Gamma (API)
0
14200
14250
14300
14350
7260 TVD
MD 14211 TVD 7292.45
Az 89.78° Inc 91.32°
MD 14296 TVD 7291.55
Az 91.12° Inc 89.9°
7310
S 90%: gy-dkgy-wht-clr, mg, rnd-sub rnd,
rts, md cal, carb incl, fri, nsf, slw str wh
%: dkgy, plty-sbplty, slty, grty, sf
SS 90%: gy-dkgy-wht-clr, cg, rnd-sub rnd, abnt ls
qrts, md cal, carb incl, fri, nsf, slw str wh cut. SH
10%: dkgy, plty-sbplty, slty, grty, sft, sl cal.
SS 90%: gy-dkgy-wht-clr, cg, rnd-sub rnd, abnt ls
qrts, md cal, carb incl, fri, nsf, slw str wh cut. SH
10%: dkgy, plty-sbplty, slty, grty, sft, sl cal.
SS 90%: gy-dkgy-wht-clr, cg, rnd-sub rnd, abnt ls
qrts, md cal, carb incl, fri, nsf, slw str wh cut. SH
10%: dkgy, plty-sbplty, slty, grty, sft, sl cal.
7360


MW: 9.8 / VIS: 48
3000
TG, C1-C5
0
TD of 14517' MD
Achieved @ 8:07
PM 6/28/14
3
ROP (min/ft)
0
250
Gamma (API)
0
Two man logging unit with sample program and gas analyzer released 06/28/14.
Casing Completion with Stand-Alone Gas Analyzer
14400
14450
14500
7260 TVD
MD 14381 TVD 7291.38
Az 90.72° Inc 90.33°
MD 14456 TVD 7291.1
Az 90.48° Inc 90.09°
7310
SS 90%: gy-dkgy-wht-clr, cg, rnd-sub rnd, abnt ls qrts, md cal, carb incl, fri, nsf, slw str wh cut. SH 10%: dkgy, plty-sbplty, slty, grty, sft, sl cal.
SS 90%: gy-dkgy-wht-clr, cg, rnd-sub rnd, abnt ls qrts, md cal, carb incl, fri, nsf, slw str wh cut. SH 10%: dkgy, plty-sbplty, slty, grty, sft, sl cal.
SS 90%: gy-dkgy-wht-clr, cg, rnd-sub rnd, abnt ls qrts, md cal, carb incl, fri, nsf, slw str wh cut. SH 10%: dkgy, plty-sbplty, slty, grty, sft, sl cal.
7360