Scale 1:200 Imperial
Measured Depth Log

Well Name:	Barefoot State 34N-25HZ		
Location:	Weld County, CO.		
License Number:	05123391850000	Region:	DJ Basin
Spud Date:	8/3/14	Drilling Completed:	8/10/14
Surface Coordinates:	997'FSL & 854'FEL, SEC.25,T3N-R68W		
Bottom Hole Coordinates:	300'FSL & 50'FWL, SEC.25,T3N-R68W		
Ground Elevation (ft):	4864'	K.B. Elevation (ft):	4880'
Logged Interval (ft):	7200' To: 12829'	Total Depth (ft):	12829'
Formation:	Niobrara		
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: Aaron Wiggins / 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

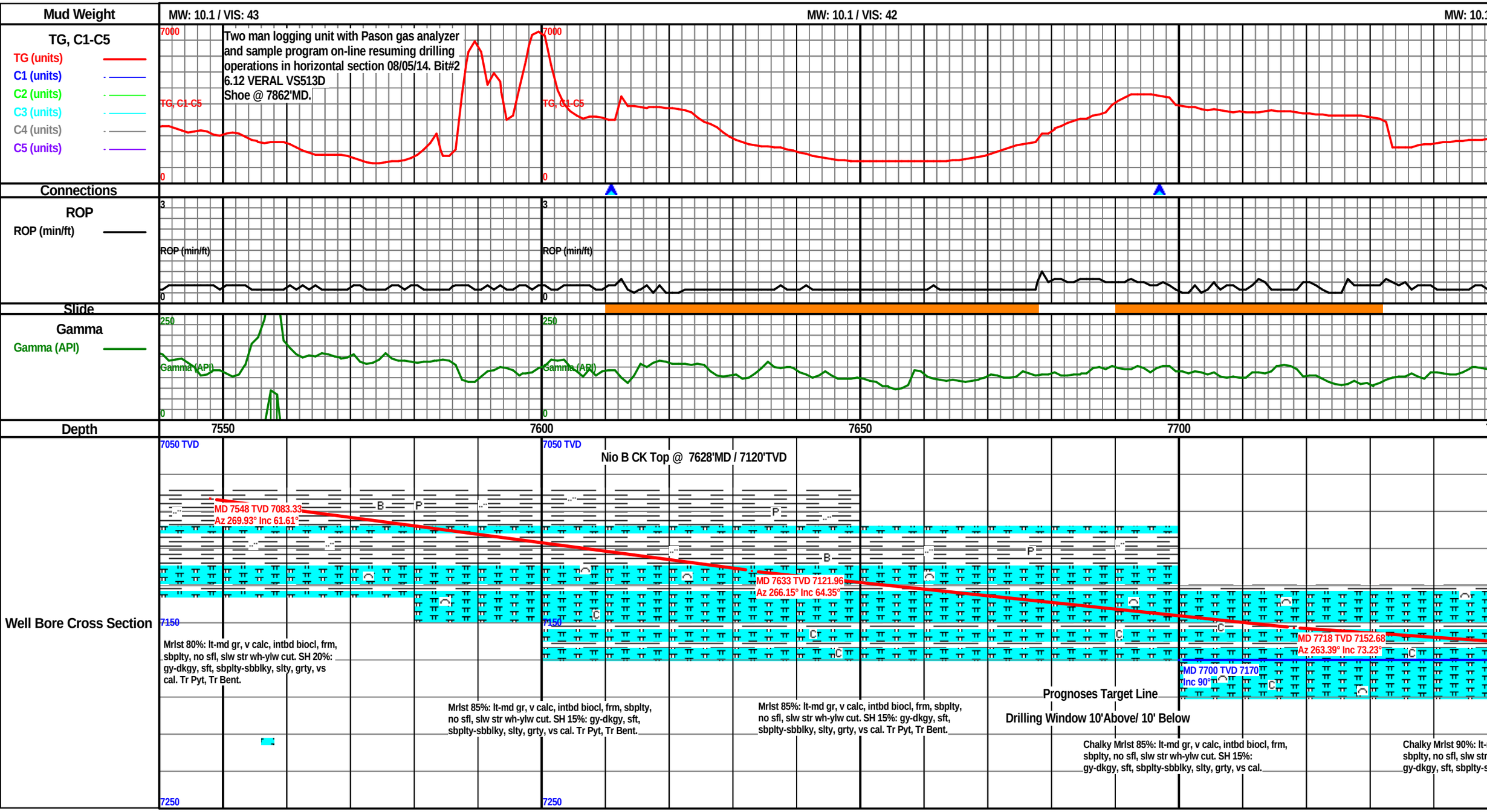
SORTING
- Well
- Moderate
- Poor

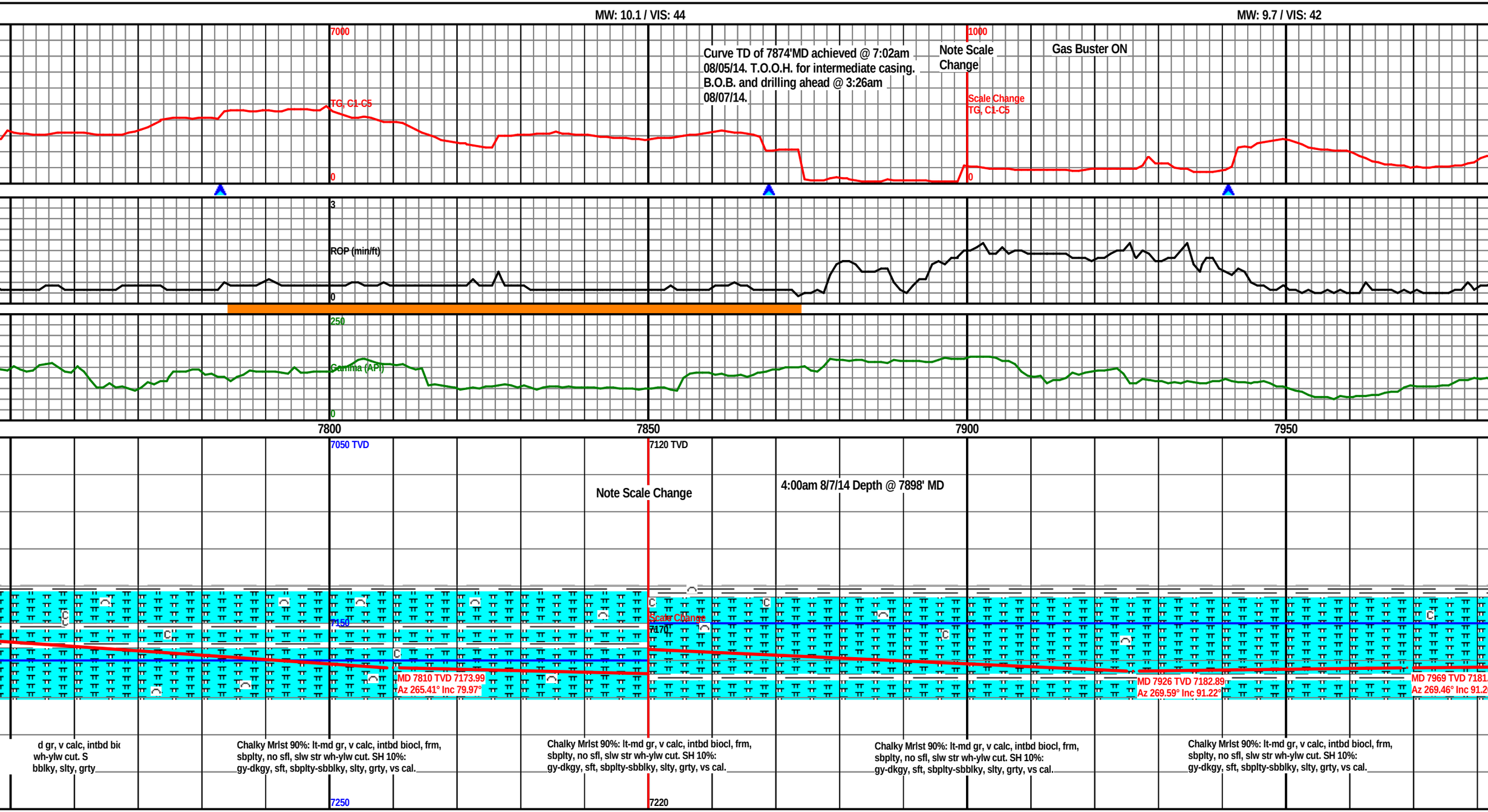
ROUNDING
- Rounded
- Subrnd
- Subang
- Angular

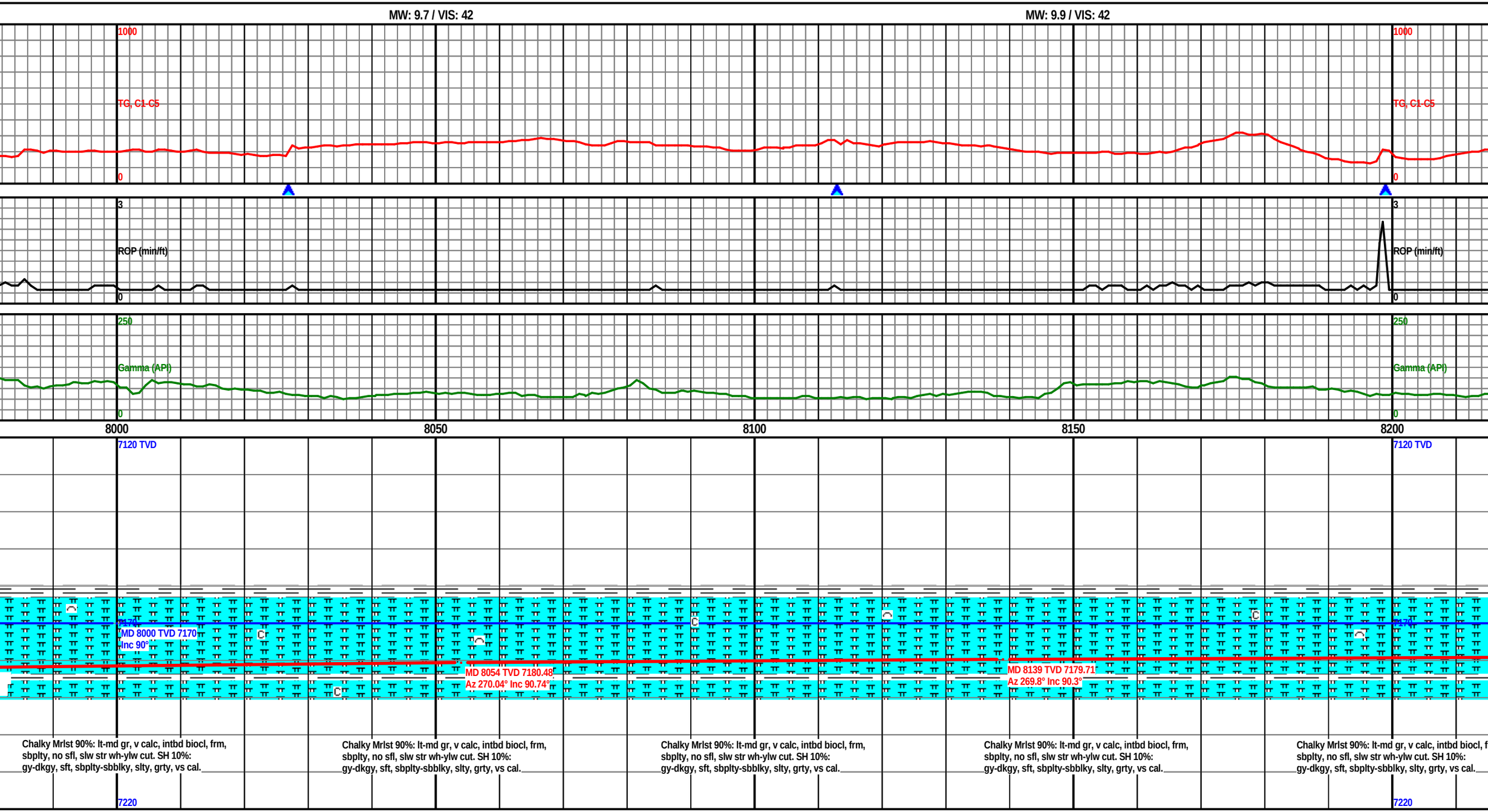
OIL SHOW
- Even
- Spotted
- Ques
- Dead

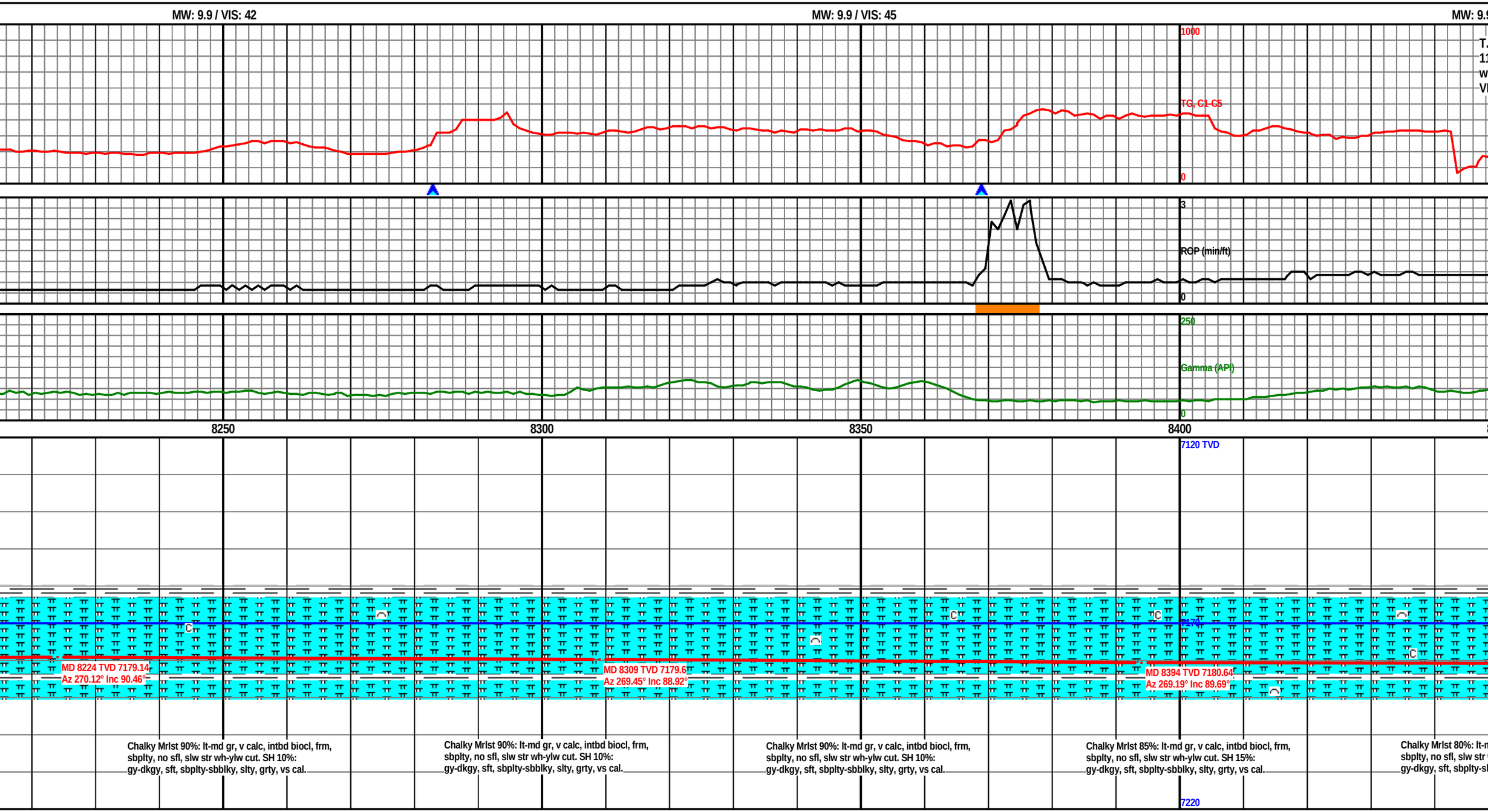
INTERVAL
- Core
- Dst

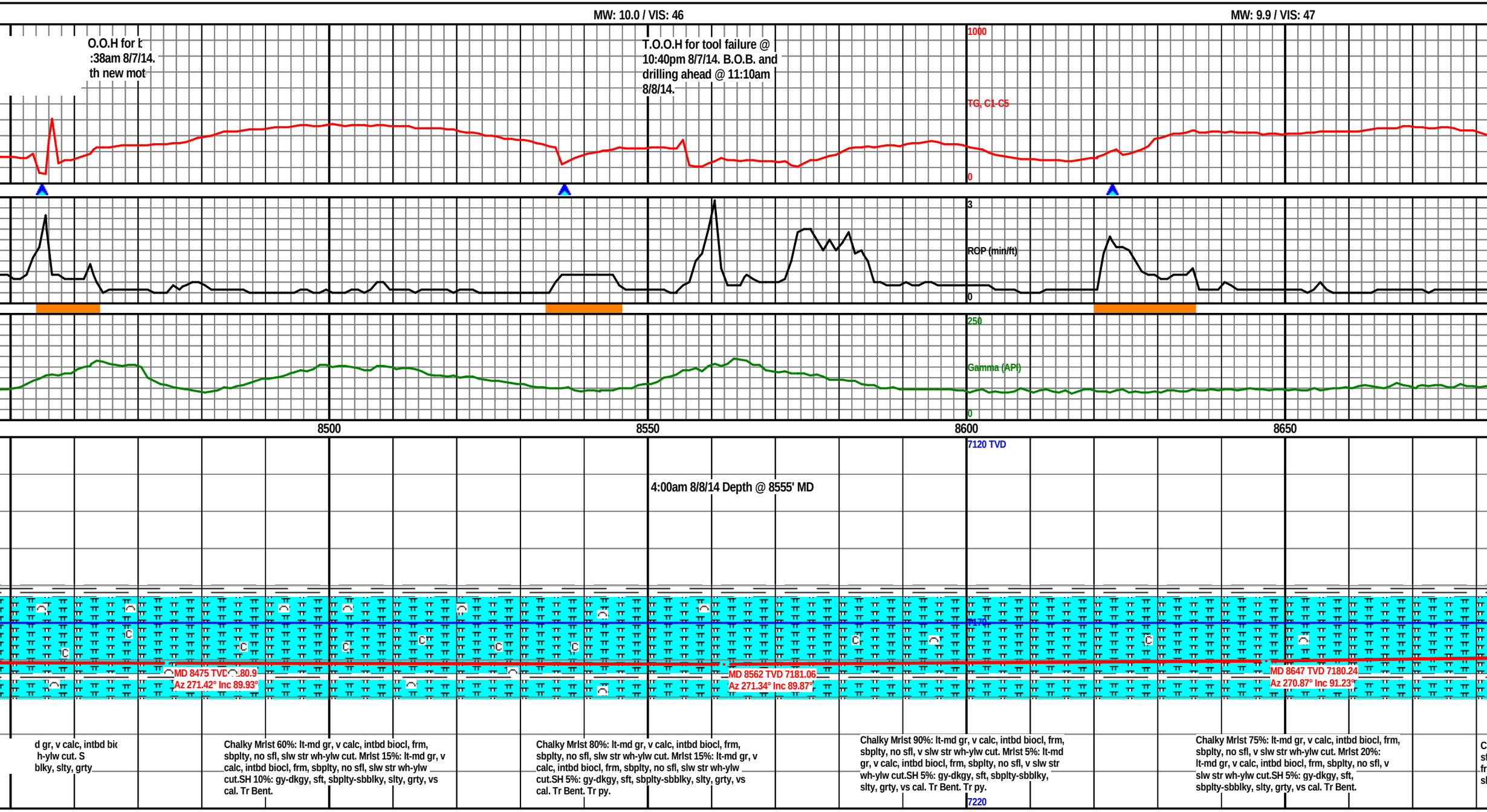
EVENT
- Rft
- Connection

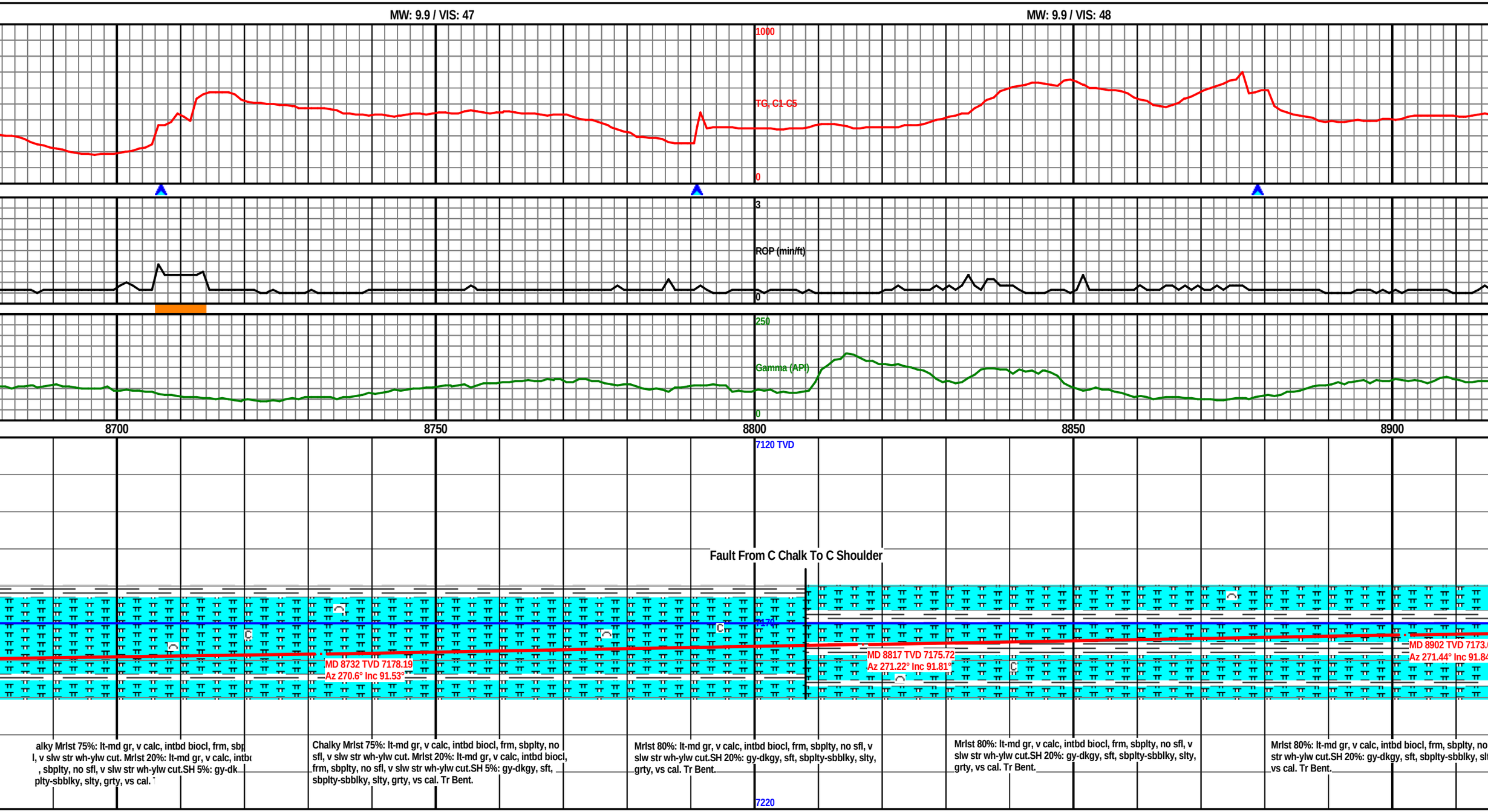

Mud Weight
MW: 10.1 / VIS: 43
MW: 10.1 / VIS: 42
TG, C1-C5
TG (units)
C1 (units)
C2 (units)
C3 (units)
C4 (units)
C5 (units)
7000
0
Two man logging unit with Pason gas analyzer and sample program on-line resuming drilling operations in horizontal section 08/05/14. Bit#2 6.12 VERAL VS513D Shoe @ 7862'MD.
Connections
ROP
ROP (min/ft)
3
Slide
Gamma
Gamma (API)
250
Depth
7550
7600
7650
7700
Well Bore Cross Section
7050 TVD
7150
7250
Nio B CK Top @ 7628'MD / 7120'TVD
MD 7548 TVD 7083.33
Az 269.93° Inc 61.61°
MD 7633 TVD 7121.96
Az 266.15° Inc 64.35°
MD 7718 TVD 7152.68
Az 263.39° Inc 73.23°
MD 7700 TVD 7170
Inc 90°
Mrlst 80%: lt-md gr, v calc, intbd biocl, frm, sbplty, no sfl, slw str wh-ylw cut. SH 20%: gy-dkgy, sft, sbplty-sbblky, slty, grty, vs cal. Tr Pyt, Tr Bent.
Mrlst 85%: lt-md gr, v calc, intbd biocl, frm, sbplty, no sfl, slw str wh-ylw cut. SH 15%: gy-dkgy, sft, sbplty-sbblky, slty, grty, vs cal. Tr Pyt, Tr Bent.
Mrlst 85%: lt-md gr, v calc, intbd biocl, frm, sbplty, no sfl, slw str wh-ylw cut. SH 15%: gy-dkgy, sft, sbplty-sbblky, slty, grty, vs cal. Tr Pyt, Tr Bent.
Prognoses Target Line
Drilling Window 10'Above/ 10' Below
Chalky Mrlst 85%: lt-md gr, v calc, intbd biocl, frm, sbplty, no sfl, slw str wh-ylw cut. SH 15%: gy-dkgy, sft, sbplty-sbblky, slty, grty, vs cal.
Chalky Mrlst 90%: lt-
sbplty, no sfl, slw str
gy-dkgy, sft, sbplty-s

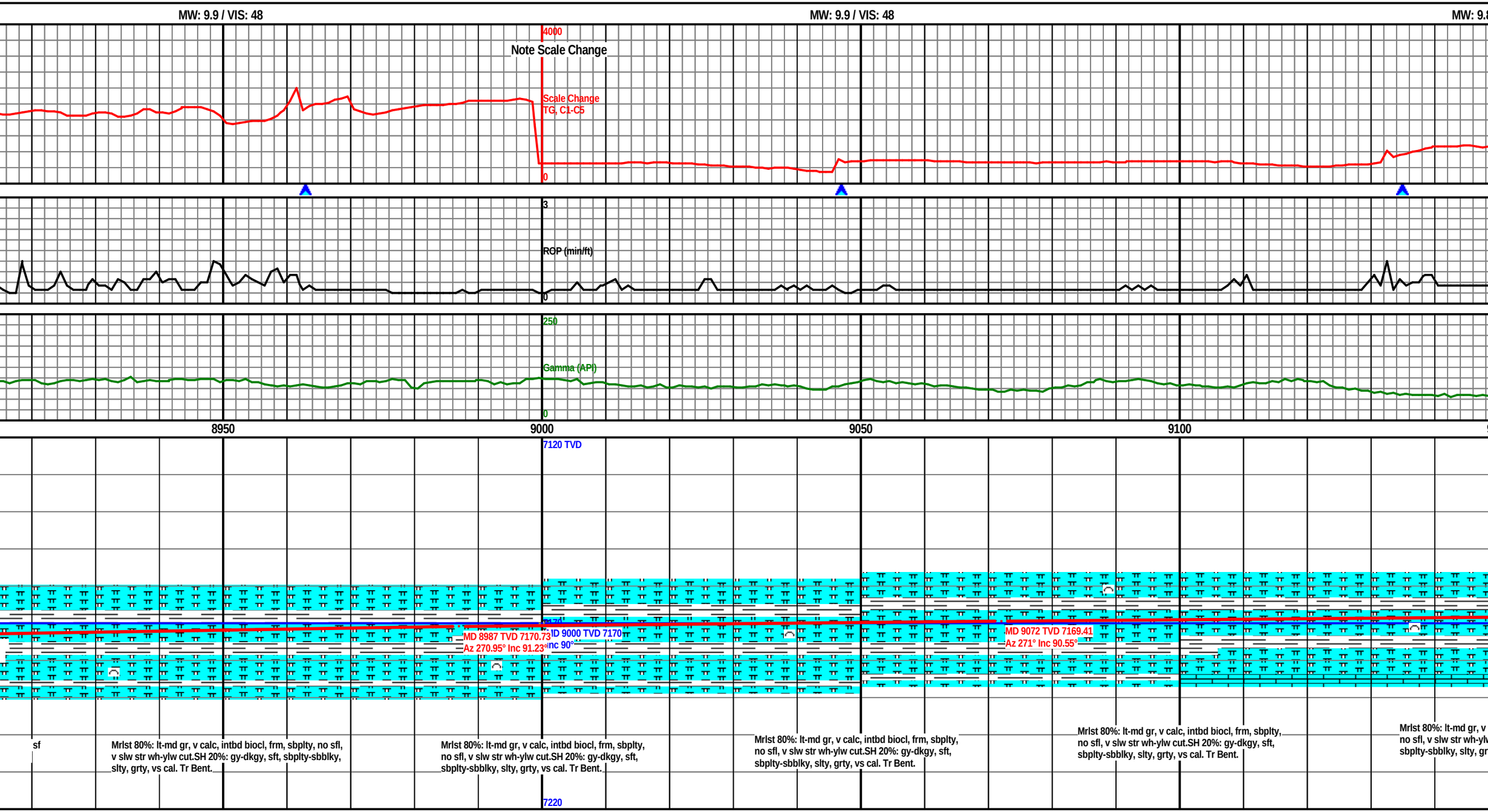

MW: 10.1 / VIS: 44
MW: 9.7 / VIS: 42
7000
TG, C1-C5
0
Curve TD of 7874'MD achieved @ 7:02am 08/05/14. T.O.O.H. for intermediate casing. B.O.B. and drilling ahead @ 3:26am 08/07/14.
Note Scale Change
1000
Scale Change
TG, C1-C5
Gas Buster ON
3
ROP (min/ft)
0
250
Gamma (API)
0
7800
7850
7900
7950
7050 TVD
7120 TVD
Note Scale Change
4:00am 8/7/14 Depth @ 7898' MD
7150
7470
Scale Change
MD 7810 TVD 7173.99
Az 265.41° Inc 79.97°
MD 7926 TVD 7182.89
Az 269.59° Inc 91.22°
MD 7969 TVD 7181.
Az 269.46° Inc 91.2
d gr, v calc, intbd bi
wh-ylw cut. S
bblky, slty, grty
Chalky Mrlst 90%: lt-md gr, v calc, intbd biocl, frm, sbplty, no sfl, slw str wh-ylw cut. SH 10%: gy-dkgy, sft, sbplty-sbblky, slty, grty, vs cal.
Chalky Mrlst 90%: lt-md gr, v calc, intbd biocl, frm, sbplty, no sfl, slw str wh-ylw cut. SH 10%: gy-dkgy, sft, sbplty-sbblky, slty, grty, vs cal.
Chalky Mrlst 90%: lt-md gr, v calc, intbd biocl, frm, sbplty, no sfl, slw str wh-ylw cut. SH 10%: gy-dkgy, sft, sbplty-sbblky, slty, grty, vs cal.
Chalky Mrlst 90%: lt-md gr, v calc, intbd biocl, frm, sbplty, no sfl, slw str wh-ylw cut. SH 10%: gy-dkgy, sft, sbplty-sbblky, slty, grty, vs cal.
7250
7220

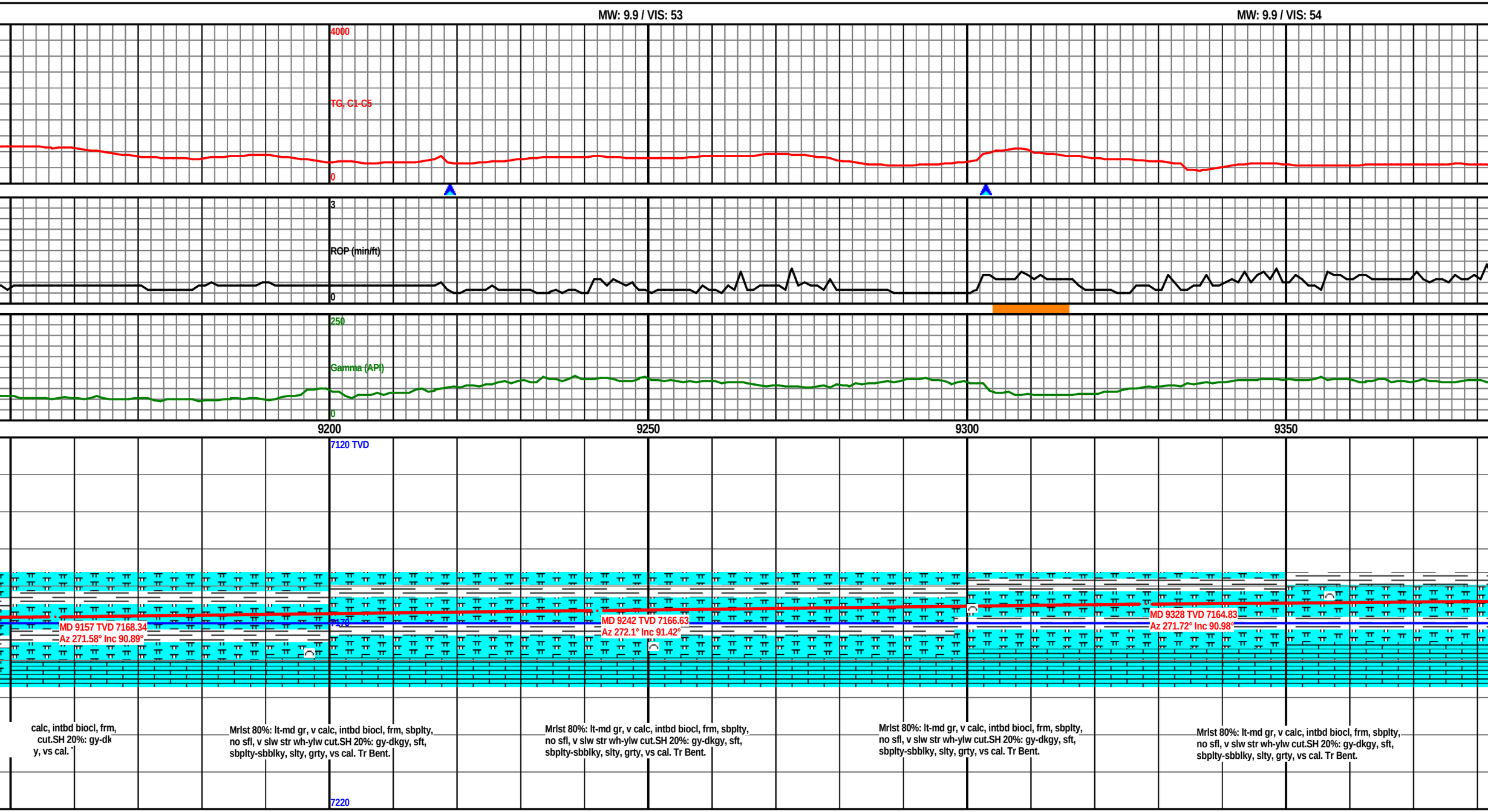

MW: 9.7 / VIS: 42
MW: 9.9 / VIS: 42
1000
TG, C1-C5
0
3
ROP (min/ft)
0
250
Gamma (API)
0
8000
8050
8100
8150
8200
7120 TVD
7174
MD 8000 TVD 7170
Inc 90°
MD 8054 TVD 7180.48
Az 270.04° Inc 90.74°
MD 8139 TVD 7179.71
Az 269.8° Inc 90.3°
Chalky Mrlst 90%: lt-md gr, v calc, intbd biocl, frm, sbplty, no sfl, slw str wh-ylw cut. SH 10%: gy-dkgy, sft, sbplty-sbblky, slty, grty, vs cal.
7220

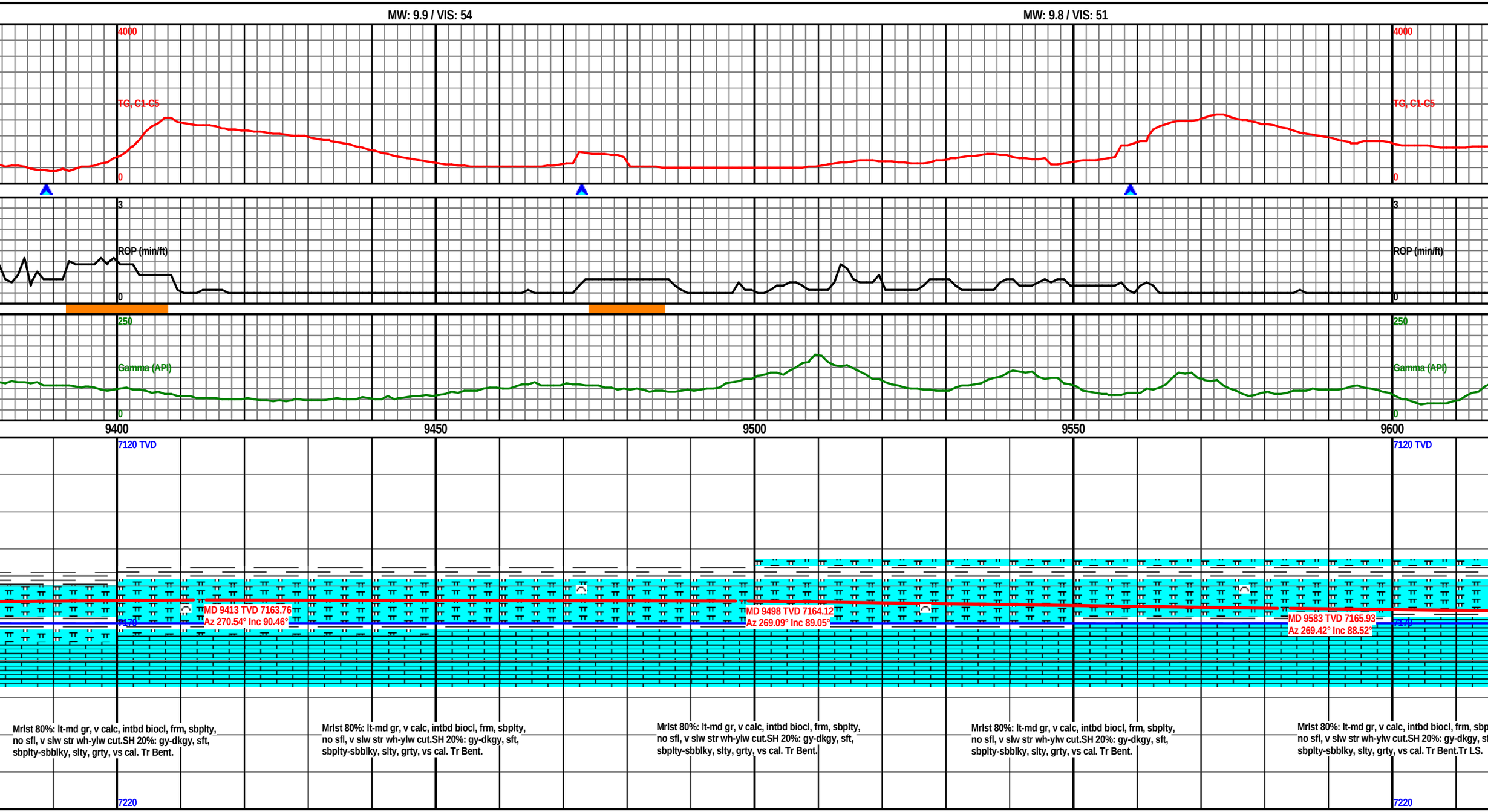

MW: 9.9 / VIS: 42
MW: 9.9 / VIS: 45
1000
TG, C1-C5
0
3
ROP (min/ft)
0
250
Gamma (API)
0
8250
8300
8350
8400
7120 TVD
7170
7220
MD 8224 TVD 7179.14
Az 270.12° Inc 90.46°
MD 8309 TVD 7179.6
Az 269.45° Inc 88.92°
MD 8394 TVD 7180.64
Az 269.19° Inc 89.69°
Chalky Mrlst 90%: lt-md gr, v calc, intbd biocl, frm, sbplty, no sfl, slw str wh-ylw cut. SH 10%: gy-dkgy, sft, sbplty-sbblky, slty, grty, vs cal.
Chalky Mrlst 90%: lt-md gr, v calc, intbd biocl, frm, sbplty, no sfl, slw str wh-ylw cut. SH 10%: gy-dkgy, sft, sbplty-sbblky, slty, grty, vs cal.
Chalky Mrlst 90%: lt-md gr, v calc, intbd biocl, frm, sbplty, no sfl, slw str wh-ylw cut. SH 10%: gy-dkgy, sft, sbplty-sbblky, slty, grty, vs cal.
Chalky Mrlst 85%: lt-md gr, v calc, intbd biocl, frm, sbplty, no sfl, slw str wh-ylw cut. SH 15%: gy-dkgy, sft, sbplty-sbblky, slty, grty, vs cal.

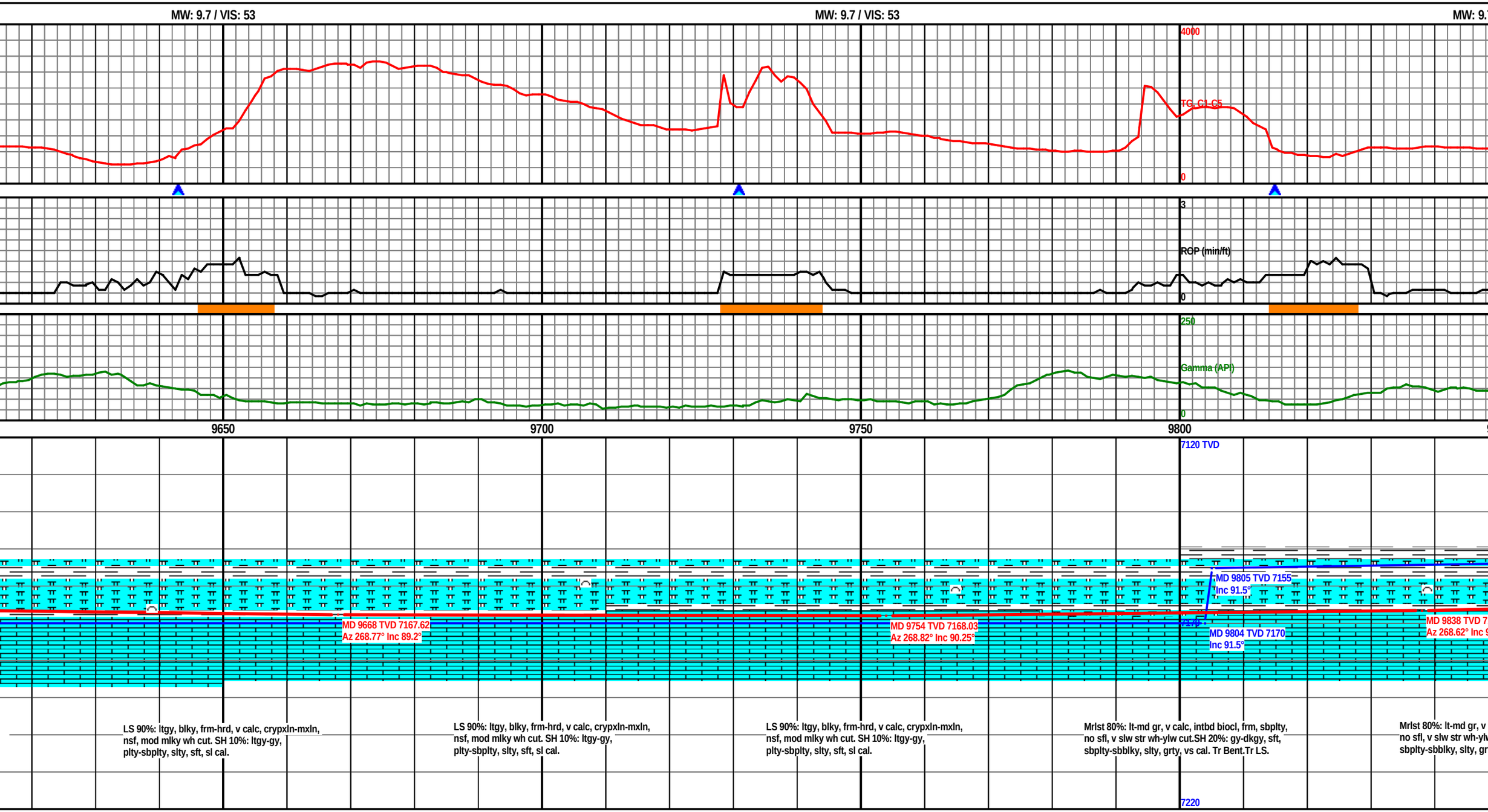

MW: 10.0 / VIS: 46
MW: 9.9 / VIS: 47
O.O.H for b
:38am 8/7/14.
th new mot
T.O.O.H for tool failure @ 10:40pm 8/7/14. B.O.B. and drilling ahead @ 11:10am 8/8/14.
1000
TG, C1-C5
0
3
ROP (min/ft)
0
250
Gamma (API)
0
8500
8550
8600
8650
7120 TVD
4:00am 8/8/14 Depth @ 8555' MD
MD 8475 TVD 80.9
Az 271.42° Inc 89.93°
MD 8562 TVD 7181.06
Az 271.34° Inc 89.87°
MD 8647 TVD 7180.24
Az 270.87° Inc 91.23°
d gr, v calc, intbd bio
h-ylw cut. S
blky, slty, grty
Chalky Mrlst 60%: lt-md gr, v calc, intbd biocl, frm, sbplty, no sfl, slw str wh-ylw cut. Mrlst 15%: lt-md gr, v calc, intbd biocl, frm, sbplty, no sfl, slw str wh-ylw cut.SH 10%: gy-dkgy, sft, sbplty-sbblky, slty, grty, vs cal. Tr Bent.
Chalky Mrlst 80%: lt-md gr, v calc, intbd biocl, frm, sbplty, no sfl, slw str wh-ylw cut. Mrlst 15%: lt-md gr, v calc, intbd biocl, frm, sbplty, no sfl, slw str wh-ylw cut.SH 5%: gy-dkgy, sft, sbplty-sbblky, slty, grty, vs cal. Tr Bent. Tr py.
Chalky Mrlst 90%: lt-md gr, v calc, intbd biocl, frm, sbplty, no sfl, v slw str wh-ylw cut. Mrlst 5%: lt-md gr, v calc, intbd biocl, frm, sbplty, no sfl, v slw str wh-ylw cut.SH 5%: gy-dkgy, sft, sbplty-sbblky, slty, grty, vs cal. Tr Bent. Tr py.
7220
Chalky Mrlst 75%: lt-md gr, v calc, intbd biocl, frm, sbplty, no sfl, v slw str wh-ylw cut. Mrlst 20%: lt-md gr, v calc, intbd biocl, frm, sbplty, no sfl, v slw str wh-ylw cut.SH 5%: gy-dkgy, sft, sbplty-sbblky, slty, grty, vs cal. Tr Bent.

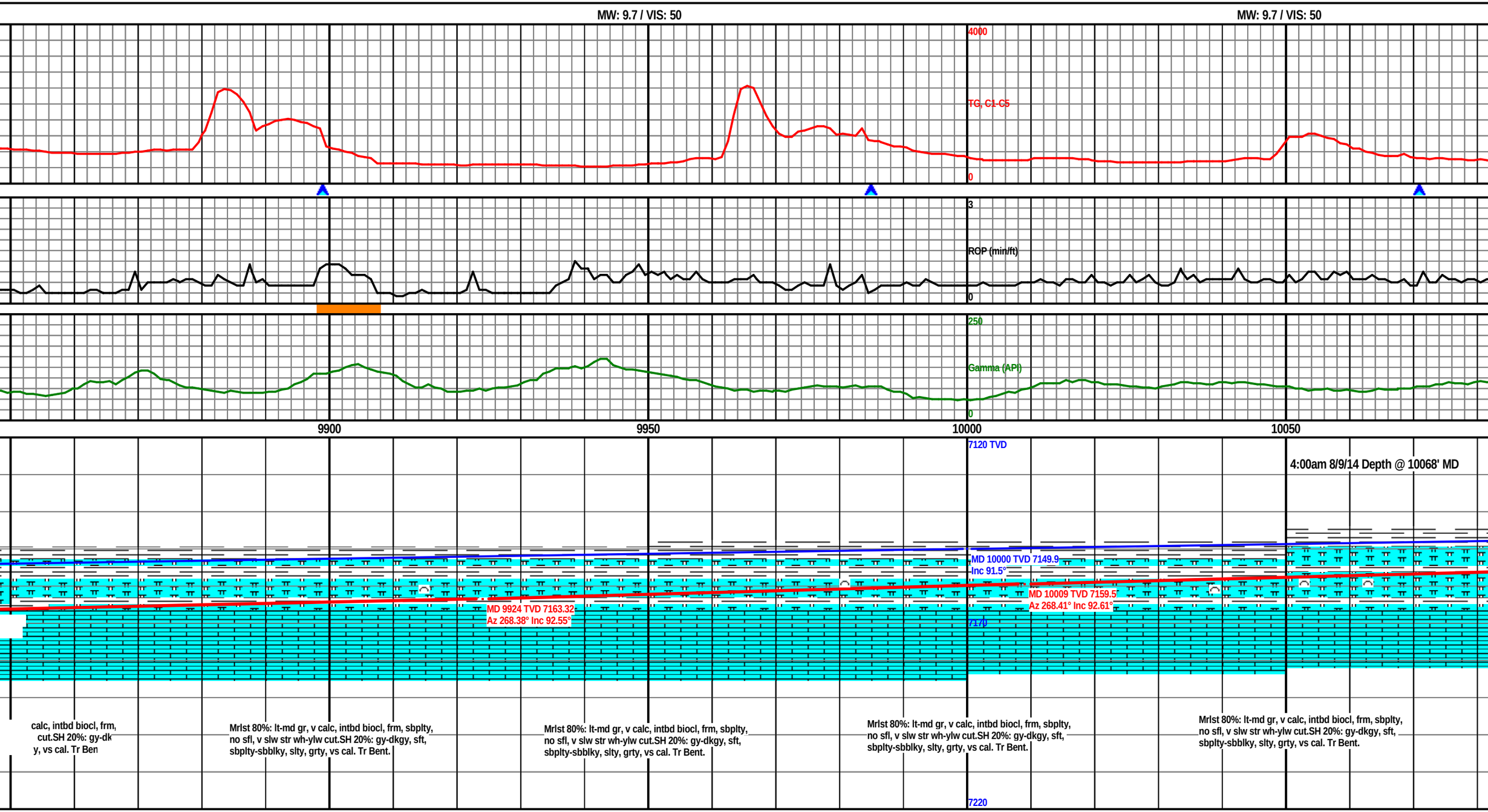

MW: 9.9 / VIS: 47
MW: 9.9 / VIS: 48
1000
TG, C1-C5
0
3
ROP (min/ft)
0
250
Gamma (API)
0
8700
8750
8800
8850
8900
7120 TVD
Fault From C Chalk To C Shoulder
MD 8732 TVD 7178.19
Az 270.6° Inc 91.53°
MD 8817 TVD 7175.72
Az 271.22° Inc 91.81°
MD 8902 TVD 7173.
Az 271.44° Inc 91.84
alky Mrlst 75%: lt-md gr, v calc, intbd biocl, frm, sbp
l, v slw str wh-ylw cut. Mrlst 20%: lt-md gr, v calc, intb
, sbplty, no sfl, v slw str wh-ylw cut.SH 5%: gy-dk
plty-sbblky, slty, grty, vs cal.
Chalky Mrlst 75%: lt-md gr, v calc, intbd biocl, frm, sbplty, no
sfl, v slw str wh-ylw cut. Mrlst 20%: lt-md gr, v calc, intbd biocl,
frm, sbplty, no sfl, v slw str wh-ylw cut.SH 5%: gy-dkgy, sft,
sbplty-sbblky, slty, grty, vs cal. Tr Bent.
Mrlst 80%: lt-md gr, v calc, intbd biocl, frm, sbplty, no sfl, v
slw str wh-ylw cut.SH 20%: gy-dkgy, sft, sbplty-sbblky, slty,
grty, vs cal. Tr Bent.
Mrlst 80%: lt-md gr, v calc, intbd biocl, frm, sbplty, no sfl, v
slw str wh-ylw cut.SH 20%: gy-dkgy, sft, sbplty-sbblky, slty,
grty, vs cal. Tr Bent.
Mrlst 80%: lt-md gr, v calc, intbd biocl, frm, sbplty, no
str wh-ylw cut.SH 20%: gy-dkgy, sft, sbplty-sbblky, sl
vs cal. Tr Bent.
7220

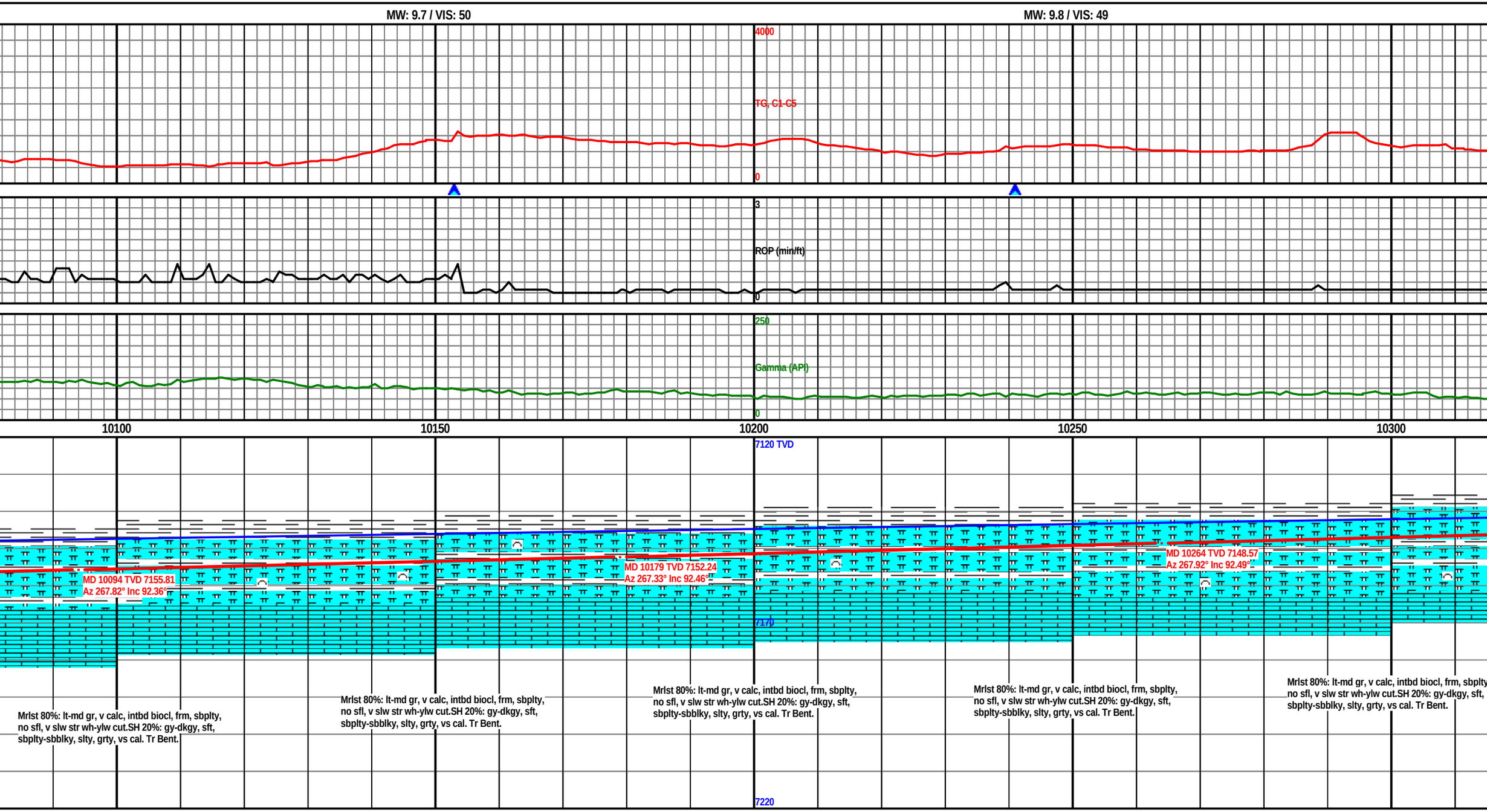

MW: 9.9 / VIS: 48
MW: 9.9 / VIS: 48
MW: 9.8
4000
Note Scale Change
Scale Change
TG, C1-C5
0
3
ROP (min/ft)
0
250
Gamma (API)
0
8950
9000
9050
9100
7120 TVD
MD 8987 TVD 7170.73
Az 270.95° Inc 91.23°
ID 9000 TVD 7170
Inc 90°
MD 9072 TVD 7169.41
Az 271° Inc 90.55°
sf
Mrlst 80%: lt-md gr, v calc, intbd biocl, frm, sbplty, no sfl, v slw str wh-ylw cut.SH 20%: gy-dkgy, sft, sbplty-sbblky, slty, grty, vs cal. Tr Bent.
Mrlst 80%: lt-md gr, v calc, intbd biocl, frm, sbplty, no sfl, v slw str wh-ylw cut.SH 20%: gy-dkgy, sft, sbplty-sbblky, slty, grty, vs cal. Tr Bent.
Mrlst 80%: lt-md gr, v calc, intbd biocl, frm, sbplty, no sfl, v slw str wh-ylw cut.SH 20%: gy-dkgy, sft, sbplty-sbblky, slty, grty, vs cal. Tr Bent.
Mrlst 80%: lt-md gr, v calc, intbd biocl, frm, sbplty, no sfl, v slw str wh-ylw cut.SH 20%: gy-dkgy, sft, sbplty-sbblky, slty, grty, vs cal. Tr Bent.
Mrlst 80%: lt-md gr, v
no sfl, v slw str wh-ylw
sbplty-sbblky, slty, gr
7220

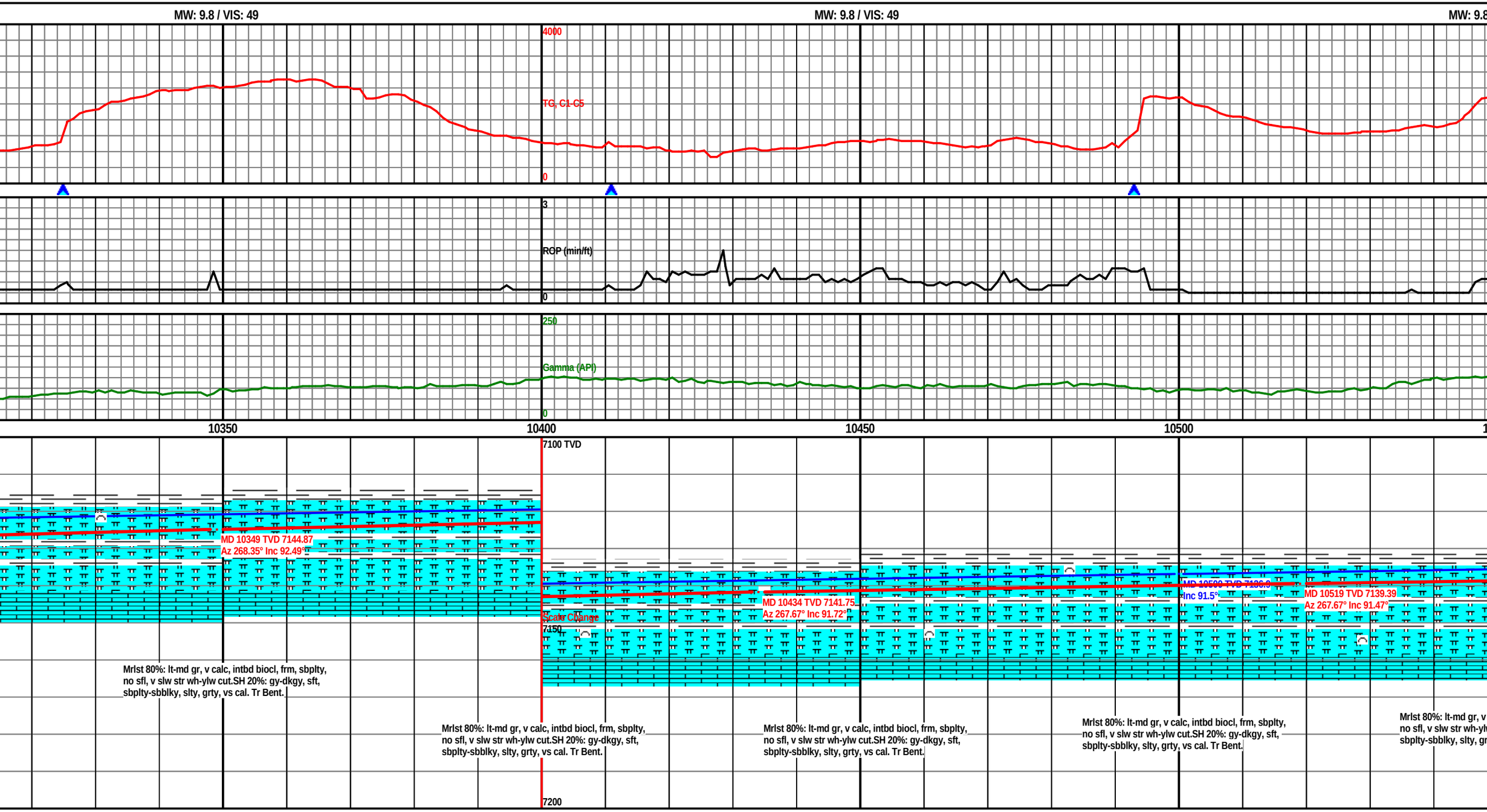

MW: 9.9 / VIS: 53
MW: 9.9 / VIS: 54
4000
TG, C1-C5
0
3
ROP (min/ft)
0
250
Gamma (API)
0
9200
9250
9300
9350
7120 TVD
MD 9157 TVD 7168.34
Az 271.58° Inc 90.89°
MD 9242 TVD 7166.63
Az 272.1° Inc 91.42°
MD 9328 TVD 7164.83
Az 271.72° Inc 90.98°
7220
calc, intbd biocl, frm,
cut.SH 20%: gy-dk
y, vs cal.
Mrlst 80%: lt-md gr, v calc, intbd biocl, frm, sbplty,
no sfl, v slw str wh-ylw cut.SH 20%: gy-dkgy, sft,
sbplty-sbblky, slty, grty, vs cal. Tr Bent.
Mrlst 80%: lt-md gr, v calc, intbd biocl, frm, sbplty,
no sfl, v slw str wh-ylw cut.SH 20%: gy-dkgy, sft,
sbplty-sbblky, slty, grty, vs cal. Tr Bent.
Mrlst 80%: lt-md gr, v calc, intbd biocl, frm, sbplty,
no sfl, v slw str wh-ylw cut.SH 20%: gy-dkgy, sft,
sbplty-sbblky, slty, grty, vs cal. Tr Bent.
Mrlst 80%: lt-md gr, v calc, intbd biocl, frm, sbplty,
no sfl, v slw str wh-ylw cut.SH 20%: gy-dkgy, sft,
sbplty-sbblky, slty, grty, vs cal. Tr Bent.

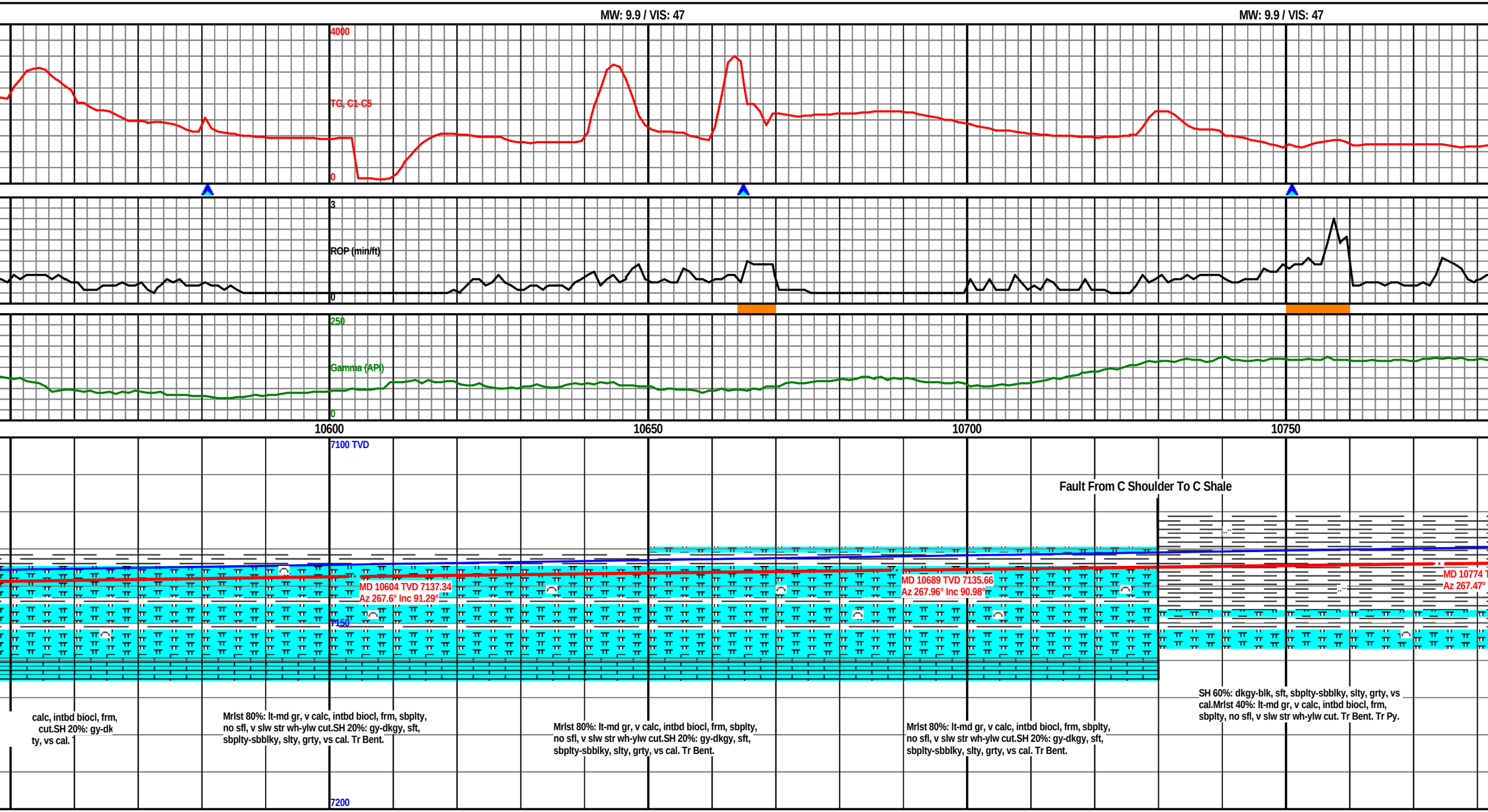

MW: 9.9 / VIS: 54
MW: 9.8 / VIS: 51
4000
TG, C1-C5
0
3
ROP (min/ft)
0
250
Gamma (API)
0
9400
9450
9500
9550
9600
7120 TVD
MD 9413 TVD 7163.76
Az 270.54° Inc 90.46°
MD 9498 TVD 7164.12
Az 269.09° Inc 89.05°
MD 9583 TVD 7165.93
Az 269.42° Inc 88.52°
7220
Mrlst 80%: lt-md gr, v calc, intbd biocl, frm, sbplty, no sfl, v slw str wh-ylw cut.SH 20%: gy-dkgy, sft, sbplty-sbblky, slty, grty, vs cal. Tr Bent.
Mrlst 80%: lt-md gr, v calc, intbd biocl, frm, sbplty, no sfl, v slw str wh-ylw cut.SH 20%: gy-dkgy, sft, sbplty-sbblky, slty, grty, vs cal. Tr Bent.
Mrlst 80%: lt-md gr, v calc, intbd biocl, frm, sbplty, no sfl, v slw str wh-ylw cut.SH 20%: gy-dkgy, sft, sbplty-sbblky, slty, grty, vs cal. Tr Bent.
Mrlst 80%: lt-md gr, v calc, intbd biocl, frm, sbplty, no sfl, v slw str wh-ylw cut.SH 20%: gy-dkgy, sft, sbplty-sbblky, slty, grty, vs cal. Tr Bent.
Mrlst 80%: lt-md gr, v calc, intbd biocl, frm, sbp
no sfl, v slw str wh-ylw cut.SH 20%: gy-dkgy, sf
sbplty-sbblky, slty, grty, vs cal. Tr Bent.Tr LS.

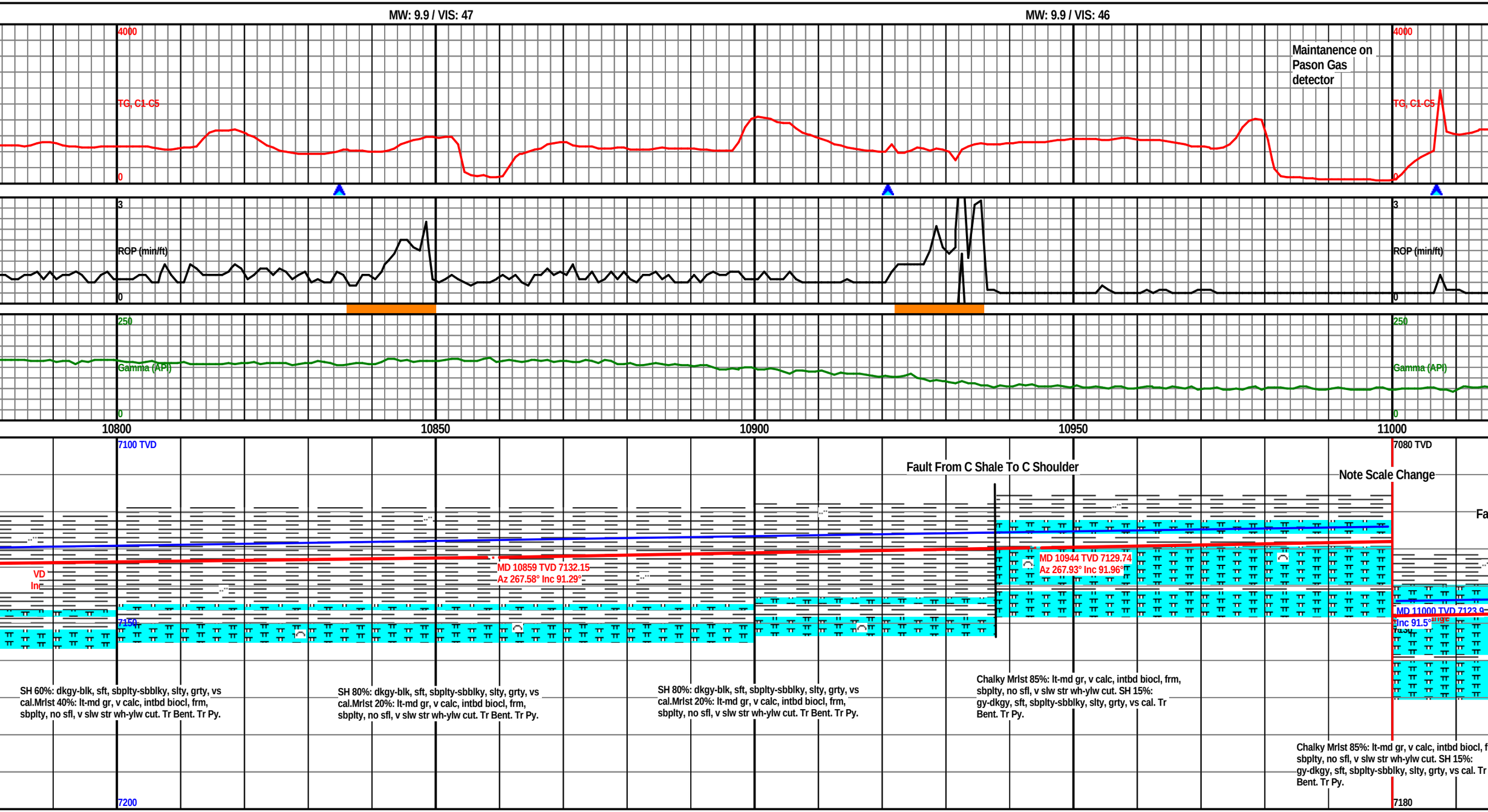

MW: 9.7 / VIS: 53
MW: 9.7 / VIS: 53
MW: 9.7
4000
TG, C1,C5
0
3
ROP (min/ft)
0
250
Gamma (API)
0
9650
9700
9750
9800
7120 TVD
MD 9805 TVD 7155
Inc 91.5°
MD 9668 TVD 7167.62
Az 268.77° Inc 89.2°
MD 9754 TVD 7168.03
Az 268.82° Inc 90.25°
MD 9804 TVD 7170
Inc 91.5°
MD 9838 TVD 7
Az 268.62° Inc 9
LS 90%: 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.
Mrlst 80%: lt-md gr, v calc, intbd biocl, frm, sbplty, no sfl, v slw str wh-ylw cut.SH 20%: gy-dkgy, sft, sbplty-sbblky, slty, grty, vs cal. Tr Bent.Tr LS.
Mrlst 80%: lt-md gr, v
no sfl, v slw str wh-ylw
sbplty-sbblky, slty, gr
7220

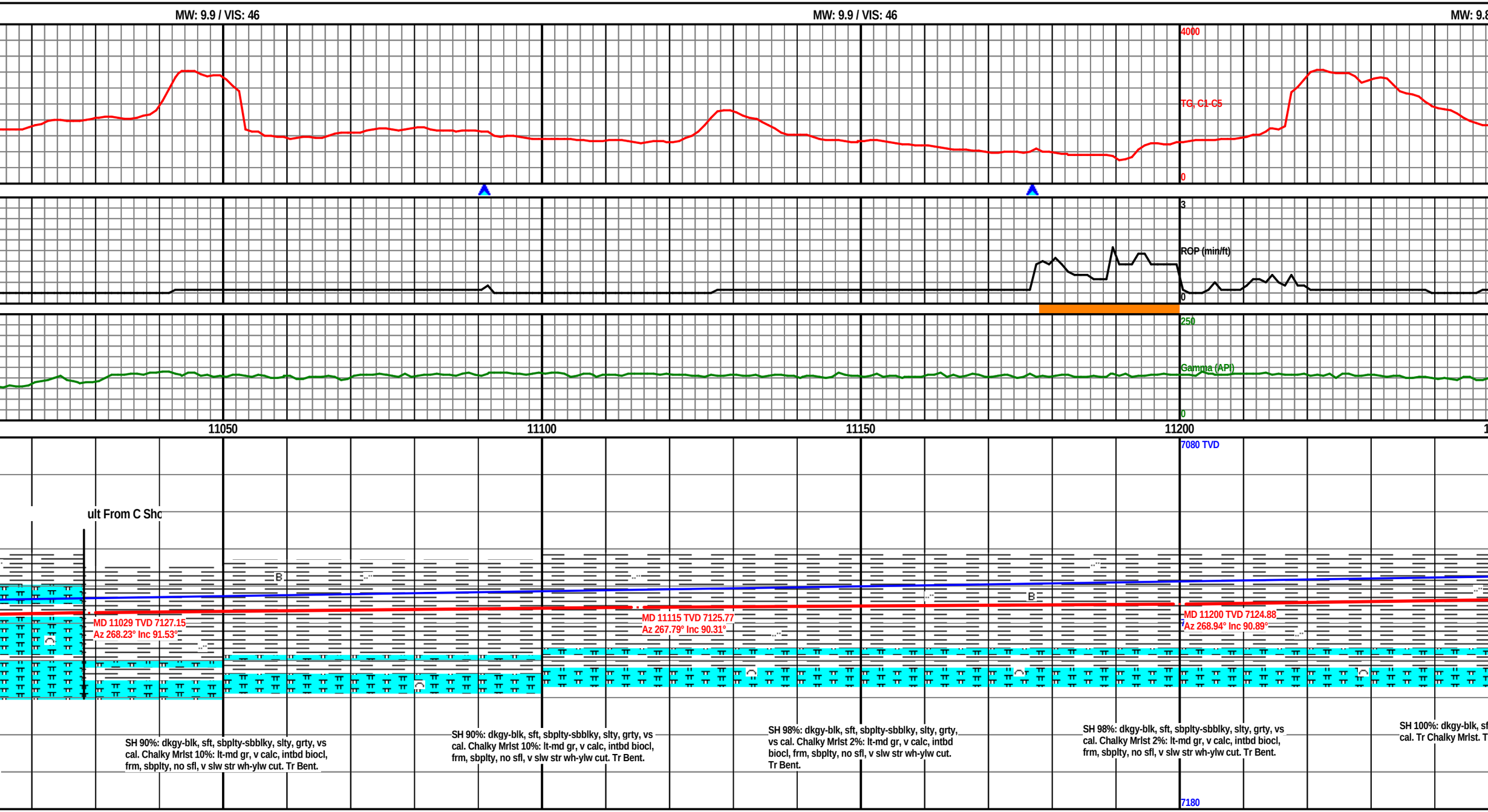

MW: 9.7 / VIS: 50
MW: 9.7 / VIS: 50
4000
TG, C1-C5
0
3
ROP (min/ft)
0
250
Gamma (API)
0
9900
9950
10000
10050
7120 TVD
4:00am 8/9/14 Depth @ 10068' MD
MD 10000 TVD 7149.9
Inc 91.5°
MD 10009 TVD 7159.5
Az 268.41° Inc 92.61°
MD 9924 TVD 7163.32
Az 268.38° Inc 92.55°
7170
7220
calc, intbd biocl, frm,
cut.SH 20%: gy-dk
y, vs cal. Tr Ben
Mrlst 80%: lt-md gr, v calc, intbd biocl, frm, sbplty,
no sfl, v slw str wh-ylw cut.SH 20%: gy-dkgy, sft,
sbplty-sbblky, slty, grty, vs cal. Tr Bent.
Mrlst 80%: lt-md gr, v calc, intbd biocl, frm, sbplty,
no sfl, v slw str wh-ylw cut.SH 20%: gy-dkgy, sft,
sbplty-sbblky, slty, grty, vs cal. Tr Bent.
Mrlst 80%: lt-md gr, v calc, intbd biocl, frm, sbplty,
no sfl, v slw str wh-ylw cut.SH 20%: gy-dkgy, sft,
sbplty-sbblky, slty, grty, vs cal. Tr Bent.
Mrlst 80%: lt-md gr, v calc, intbd biocl, frm, sbplty,
no sfl, v slw str wh-ylw cut.SH 20%: gy-dkgy, sft,
sbplty-sbblky, slty, grty, vs cal. Tr Bent.

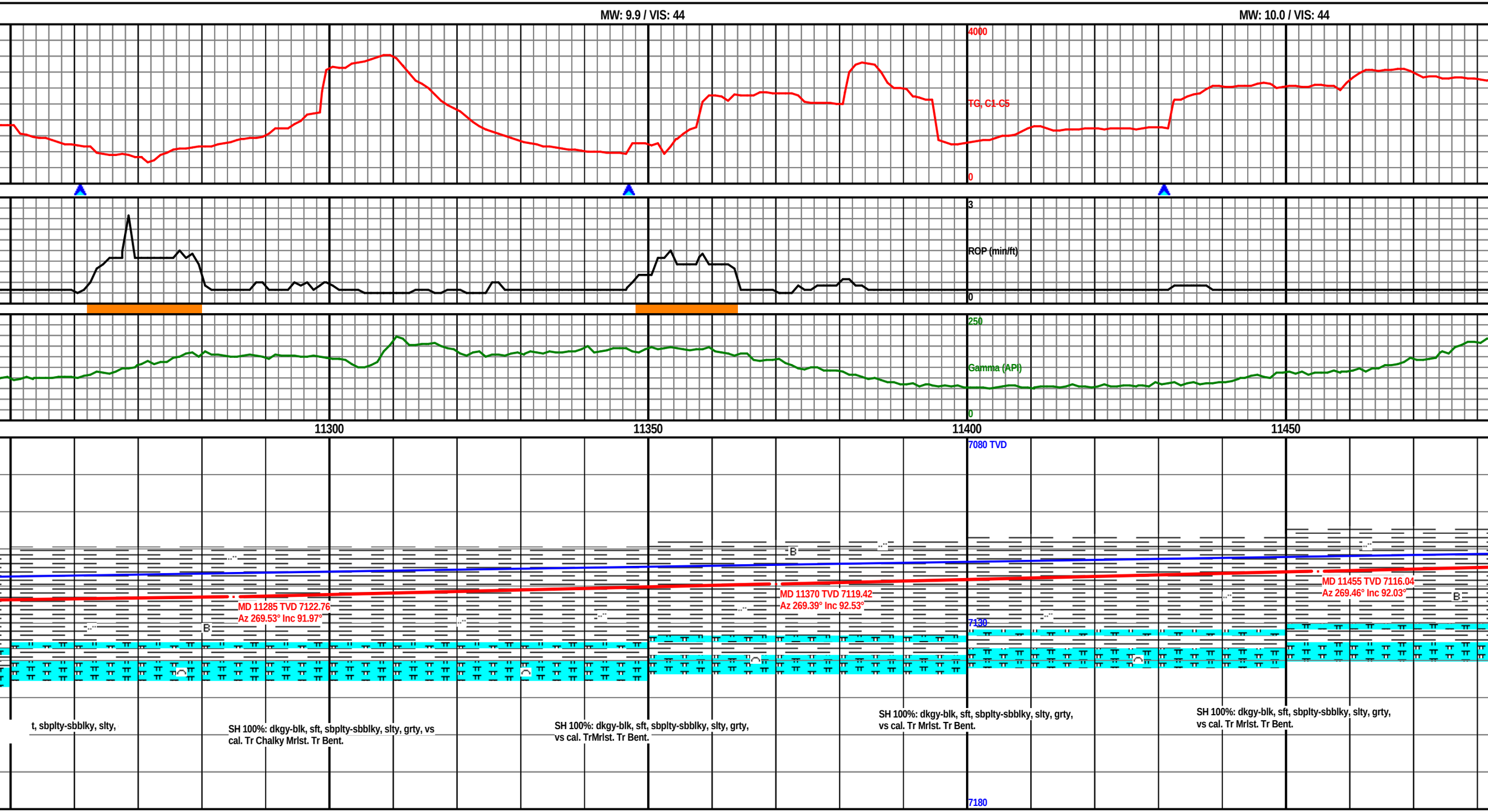

MW: 9.7 / VIS: 50
MW: 9.8 / VIS: 49
4000
TG, C1-C5
0
3
ROP (min/ft)
0
250
Gamma (API)
0
10100
10150
10200
10250
10300
7120 TVD
MD 10094 TVD 7155.81
Az 267.82° Inc 92.36°
MD 10179 TVD 7152.24
Az 267.33° Inc 92.46°
MD 10264 TVD 7148.57
Az 267.92° Inc 92.49°
7170
7220
Mrlst 80%: lt-md gr, v calc, intbd biocl, frm, sbplty, no sfl, v slw str wh-ylw cut.SH 20%: gy-dkgy, sft, sbplty-sbblky, slty, grty, vs cal. Tr Bent.
Mrlst 80%: lt-md gr, v calc, intbd biocl, frm, sbplty, no sfl, v slw str wh-ylw cut.SH 20%: gy-dkgy, sft, sbplty-sbblky, slty, grty, vs cal. Tr Bent.
Mrlst 80%: lt-md gr, v calc, intbd biocl, frm, sbplty, no sfl, v slw str wh-ylw cut.SH 20%: gy-dkgy, sft, sbplty-sbblky, slty, grty, vs cal. Tr Bent.
Mrlst 80%: lt-md gr, v calc, intbd biocl, frm, sbplty, no sfl, v slw str wh-ylw cut.SH 20%: gy-dkgy, sft, sbplty-sbblky, slty, grty, vs cal. Tr Bent.
Mrlst 80%: lt-md gr, v calc, intbd biocl, frm, sbplty, no sfl, v slw str wh-ylw cut.SH 20%: gy-dkgy, sft, sbplty-sbblky, slty, grty, vs cal. Tr Bent.

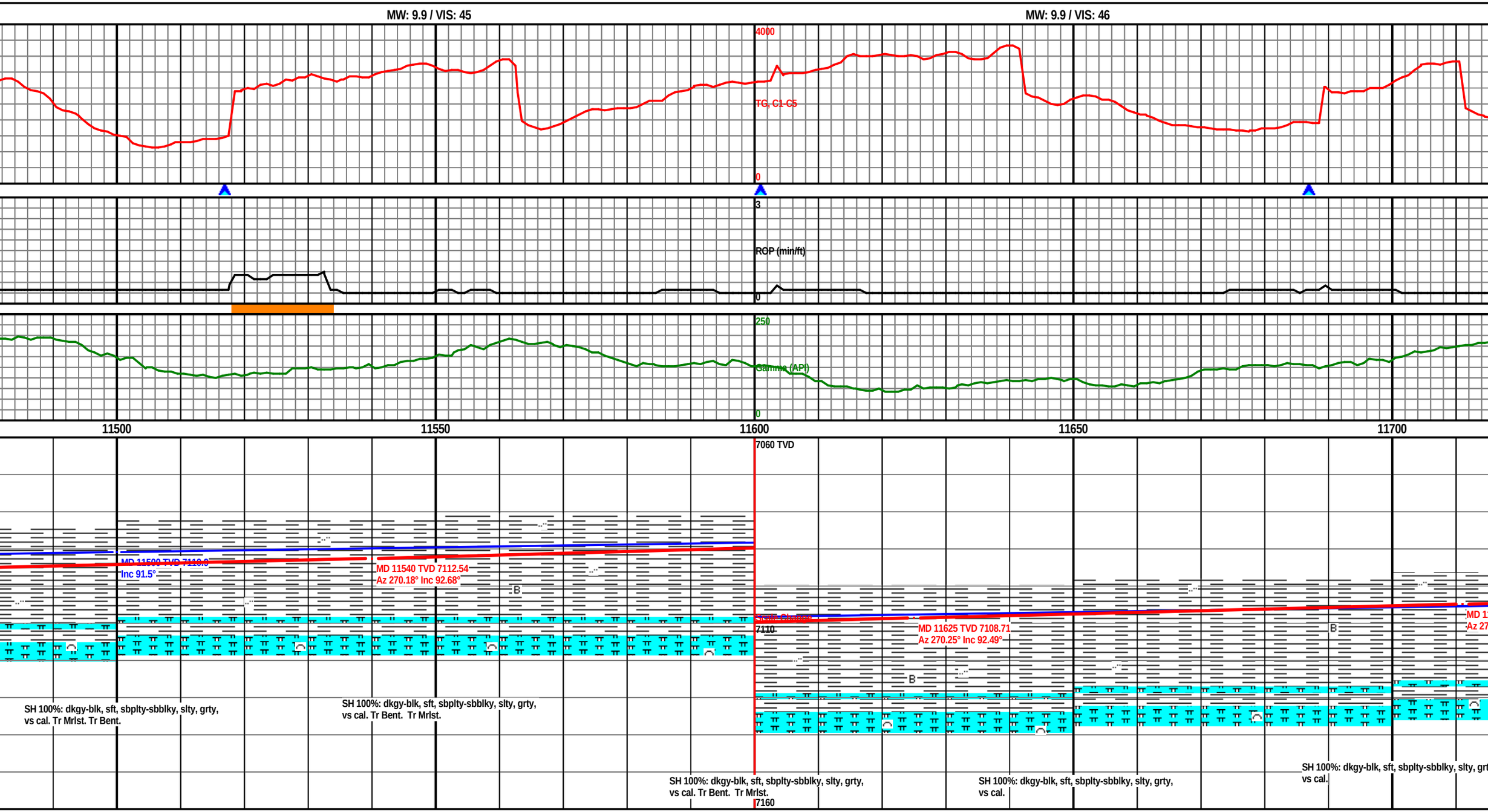

MW: 9.8 / VIS: 49
MW: 9.8 / VIS: 49
MW: 9.8
4000
TG, C1-C5
0
3
ROP (min/ft)
0
250
Gamma (API)
0
10350
10400
10450
10500
7100 TVD
MD 10349 TVD 7144.87
Az 268.35° Inc 92.49°
MD 10434 TVD 7141.75
Az 267.67° Inc 91.72°
Scale Change
7150
MD 10500 TVD 7136.9
Inc 91.5°
MD 10519 TVD 7139.39
Az 267.67° Inc 91.47°
Mrlst 80%: lt-md gr, v calc, intbd biocl, frm, sbplty, no sfl, v slw str wh-ylw cut.SH 20%: gy-dkgy, sft, sbplty-sbblky, slty, grty, vs cal. Tr Bent.
Mrlst 80%: lt-md gr, v calc, intbd biocl, frm, sbplty, no sfl, v slw str wh-ylw cut.SH 20%: gy-dkgy, sft, sbplty-sbblky, slty, grty, vs cal. Tr Bent.
Mrlst 80%: lt-md gr, v calc, intbd biocl, frm, sbplty, no sfl, v slw str wh-ylw cut.SH 20%: gy-dkgy, sft, sbplty-sbblky, slty, grty, vs cal. Tr Bent.
Mrlst 80%: lt-md gr, v calc, intbd biocl, frm, sbplty, no sfl, v slw str wh-ylw cut.SH 20%: gy-dkgy, sft, sbplty-sbblky, slty, grty, vs cal. Tr Bent.
Mrlst 80%: lt-md gr, v
no sfl, v slw str wh-yl
sbplty-sbblky, slty, gr
7200

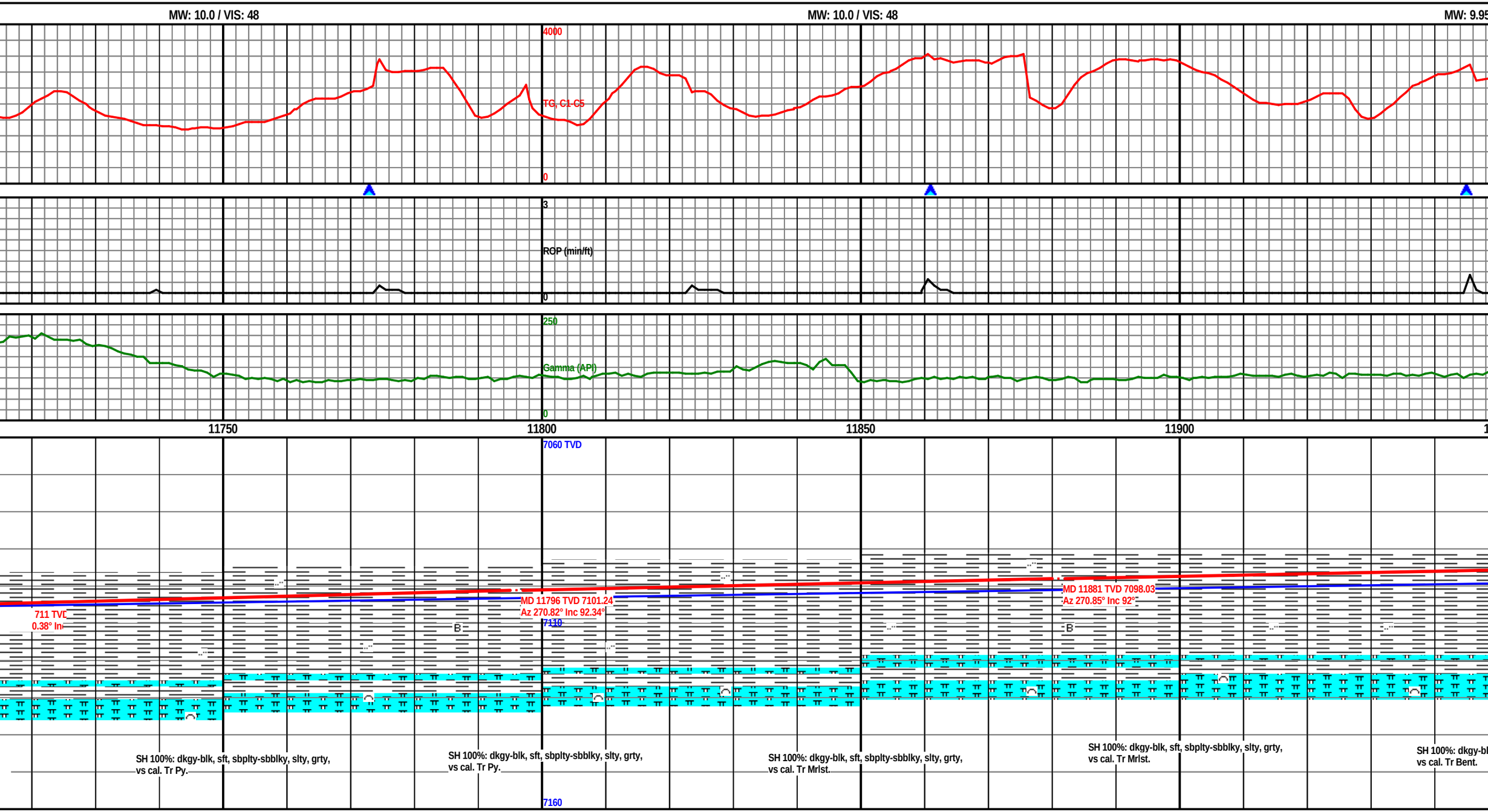

MW: 9.9 / VIS: 47
MW: 9.9 / VIS: 47
4000
TG, C1-C5
0
3
ROP (min/ft)
0
250
Gamma (API)
0
10600
10650
10700
10750
7100 TVD
7150
7200
Fault From C Shoulder To C Shale
MD 10604 TVD 7137.34
Az 267.6° Inc 91.29°
MD 10689 TVD 7135.66
Az 267.96° Inc 90.98°
MD 10774
Az 267.47°
calc, intbd biocl, frm,
cut.SH 20%: gy-dk
ty, vs cal.
Mrlst 80%: lt-md gr, v calc, intbd biocl, frm, sbplty,
no sfl, v slw str wh-ylw cut.SH 20%: gy-dkgy, sft,
sbplty-sbblky, slty, grty, vs cal. Tr Bent.
Mrlst 80%: lt-md gr, v calc, intbd biocl, frm, sbplty,
no sfl, v slw str wh-ylw cut.SH 20%: gy-dkgy, sft,
sbplty-sbblky, slty, grty, vs cal. Tr Bent.
Mrlst 80%: lt-md gr, v calc, intbd biocl, frm, sbplty,
no sfl, v slw str wh-ylw cut.SH 20%: gy-dkgy, sft,
sbplty-sbblky, slty, grty, vs cal. Tr Bent.
SH 60%: dkgy-blk, sft, sbplty-sbblky, slty, grty, vs
cal.Mrlst 40%: lt-md gr, v calc, intbd biocl, frm,
sbplty, no sfl, v slw str wh-ylw cut. Tr Bent. Tr Py.

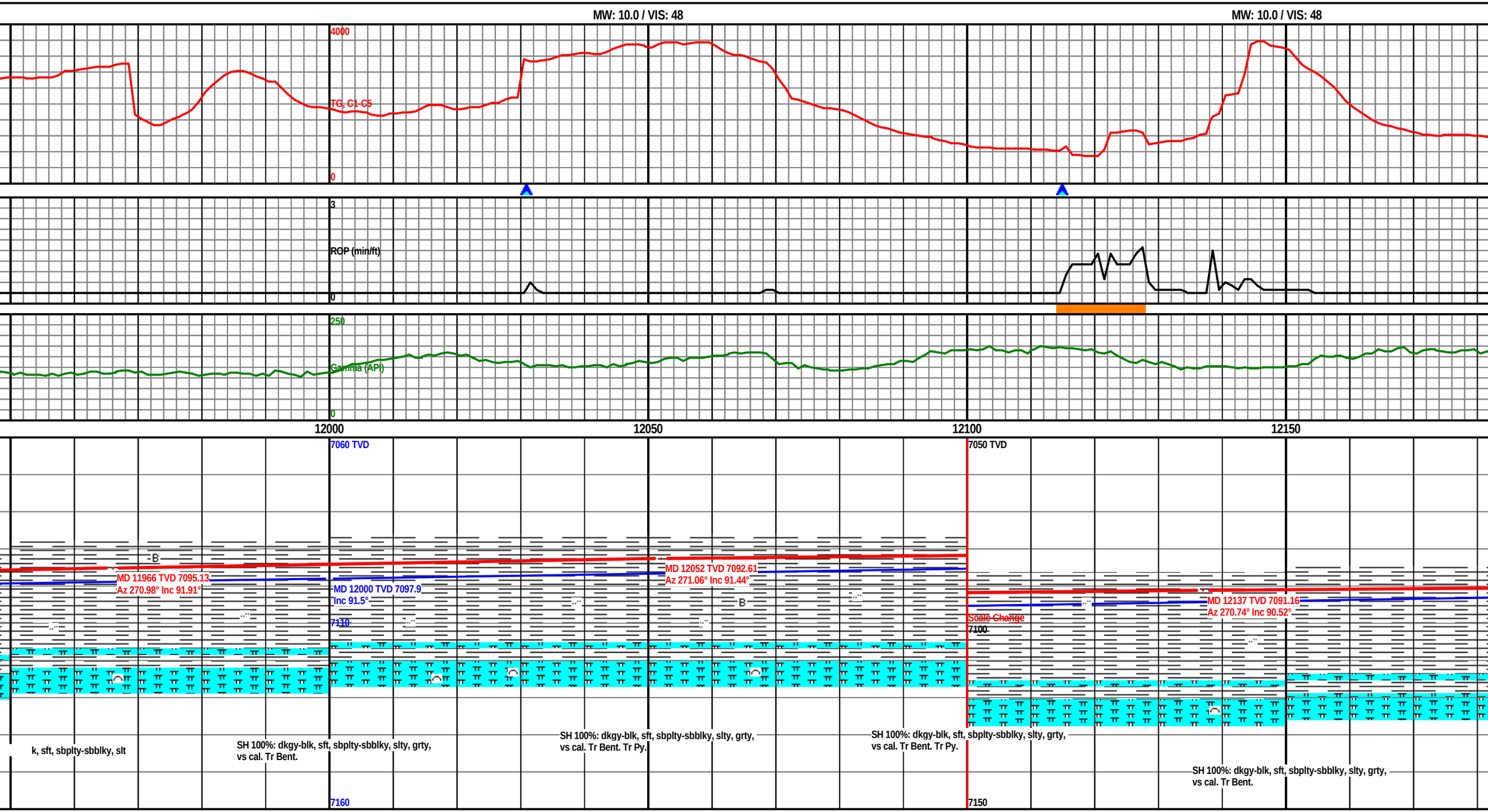

MW: 9.9 / VIS: 47
MW: 9.9 / VIS: 46
Maintanence on Pason Gas detector
4000
TG, C1-C5
0
3
ROP (min/ft)
250
Gamma (API)
10800
10850
10900
10950
11000
7100 TVD
7080 TVD
Fault From C Shale To C Shoulder
Note Scale Change
MD 10859 TVD 7132.15
Az 267.58° Inc 91.29°
MD 10944 TVD 7129.74
Az 267.93° Inc 91.96°
MD 11000 TVD 7123.9
Inc 91.5°
7150
7200
7180
SH 60%: dkgy-blk, sft, sbplty-sbblky, slty, grty, vs cal.Mrlst 40%: lt-md gr, v calc, intbd biocl, frm, sbplty, no sfl, v slw str wh-ylw cut. Tr Bent. Tr Py.
SH 80%: dkgy-blk, sft, sbplty-sbblky, slty, grty, vs cal.Mrlst 20%: lt-md gr, v calc, intbd biocl, frm, sbplty, no sfl, v slw str wh-ylw cut. Tr Bent. Tr Py.
SH 80%: dkgy-blk, sft, sbplty-sbblky, slty, grty, vs cal.Mrlst 20%: lt-md gr, v calc, intbd biocl, frm, sbplty, no sfl, v slw str wh-ylw cut. Tr Bent. Tr Py.
Chalky Mrlst 85%: lt-md gr, v calc, intbd biocl, frm, sbplty, no sfl, v slw str wh-ylw cut. SH 15%: gy-dkgy, sft, sbplty-sbblky, slty, grty, vs cal. Tr Bent. Tr Py.
Chalky Mrlst 85%: lt-md gr, v calc, intbd biocl, f sbplty, no sfl, v slw str wh-ylw cut. SH 15%: gy-dkgy, sft, sbplty-sbblky, slty, grty, vs cal. Tr Bent. Tr Py.

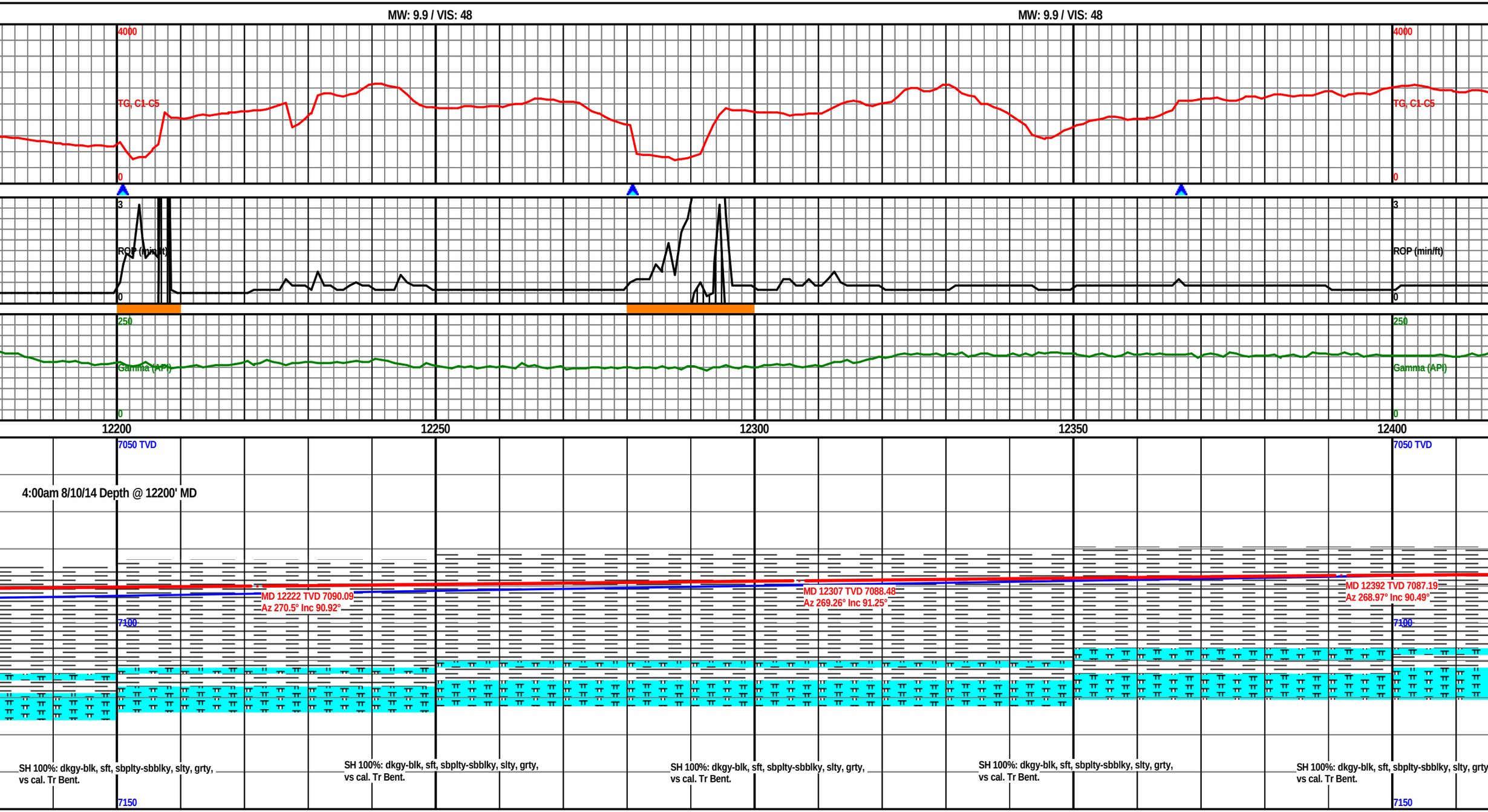

MW: 9.9 / VIS: 46
MW: 9.9 / VIS: 46
MW: 9.8
4000
TG, C1-C5
0
3
ROP (min/ft)
0
250
Gamma (API)
0
11050
11100
11150
11200
7080 TVD
ult From C Sho
MD 11029 TVD 7127.15
Az 268.23° Inc 91.53°
MD 11115 TVD 7125.77
Az 267.79° Inc 90.31°
MD 11200 TVD 7124.88
Az 268.94° Inc 90.89°
SH 90%: dkgy-blk, sft, sbplty-sbblky, slty, grty, vs cal. Chalky Mrlst 10%: lt-md gr, v calc, intbd biocl, frm, sbplty, no sfl, v slw str wh-ylw cut. Tr Bent.
SH 90%: dkgy-blk, sft, sbplty-sbblky, slty, grty, vs cal. Chalky Mrlst 10%: lt-md gr, v calc, intbd biocl, frm, sbplty, no sfl, v slw str wh-ylw cut. Tr Bent.
SH 98%: dkgy-blk, sft, sbplty-sbblky, slty, grty, vs cal. Chalky Mrlst 2%: lt-md gr, v calc, intbd biocl, frm, sbplty, no sfl, v slw str wh-ylw cut. Tr Bent.
SH 98%: dkgy-blk, sft, sbplty-sbblky, slty, grty, vs cal. Chalky Mrlst 2%: lt-md gr, v calc, intbd biocl, frm, sbplty, no sfl, v slw str wh-ylw cut. Tr Bent.
SH 100%: dkgy-blk, sf
cal. Tr Chalky Mrlst. T
7180

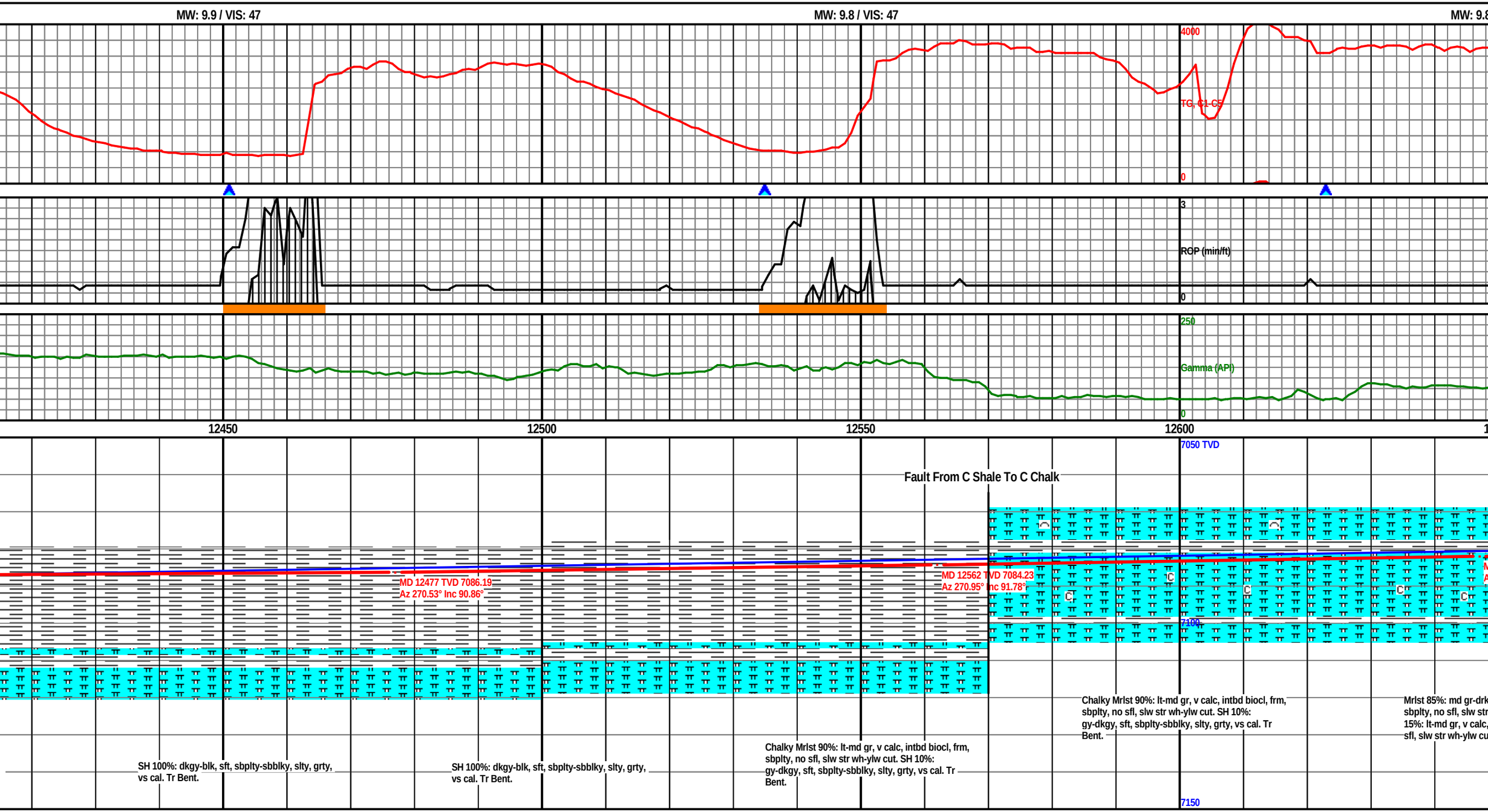

MW: 9.9 / VIS: 44
MW: 10.0 / VIS: 44
4000
TG, C1-C5
0
3
ROP (min/ft)
0
250
Gamma (API)
0
11300
11350
11400
11450
7080 TVD
MD 11285 TVD 7122.76
Az 269.53° Inc 91.97°
MD 11370 TVD 7119.42
Az 269.39° Inc 92.53°
MD 11455 TVD 7116.04
Az 269.46° Inc 92.03°
7130
7180
t, sbplty-sbblky, slty,
SH 100%: dkgy-blk, sft, sbplty-sbblky, slty, grty, vs
cal. Tr Chalky Mrlst. Tr Bent.
SH 100%: dkgy-blk, sft, sbplty-sbblky, slty, grty,
vs cal. TrMrlst. Tr Bent.
SH 100%: dkgy-blk, sft, sbplty-sbblky, slty, grty,
vs cal. Tr Mrlst. Tr Bent.
SH 100%: dkgy-blk, sft, sbplty-sbblky, slty, grty,
vs cal. Tr Mrlst. Tr Bent.

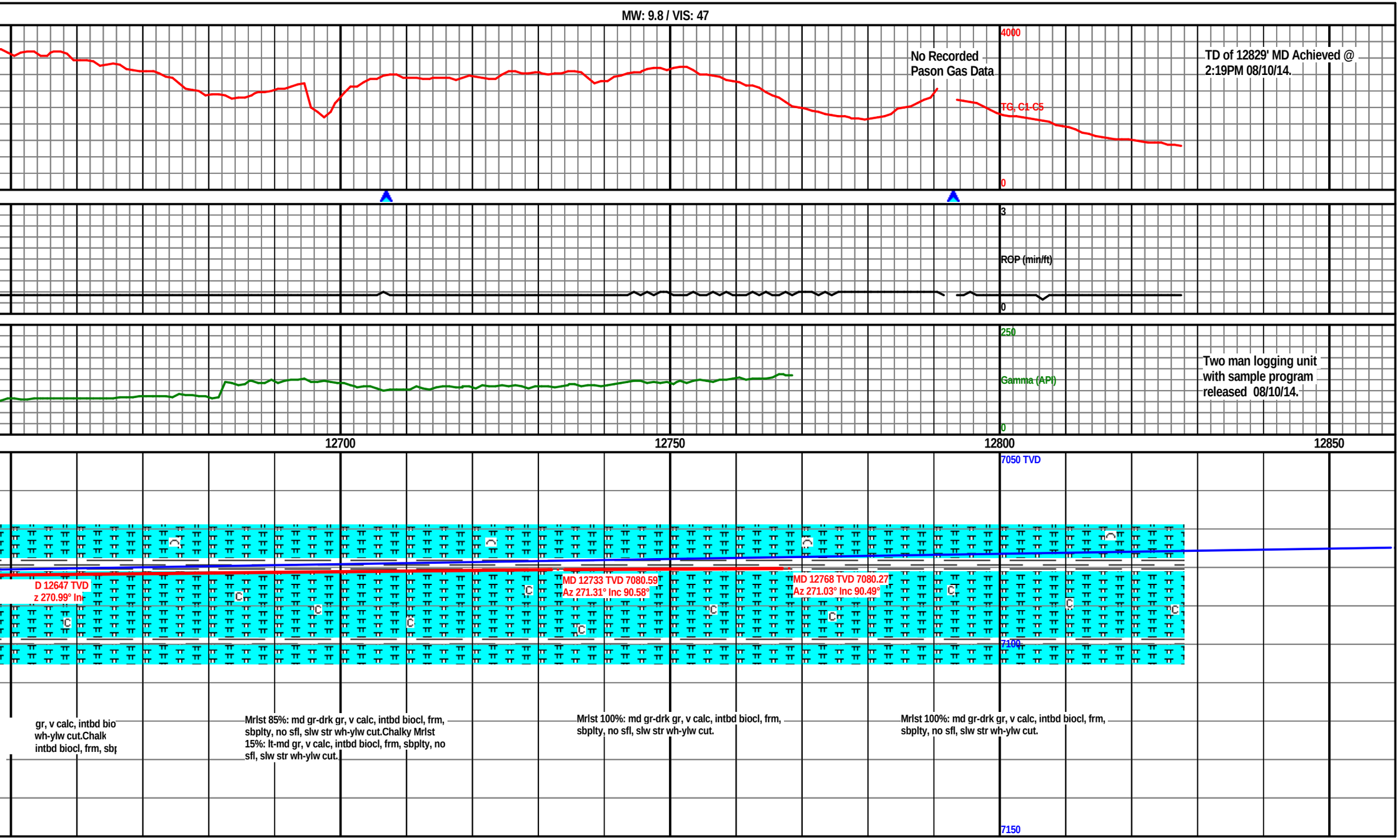

MW: 9.9 / VIS: 45
MW: 9.9 / VIS: 46
4000
TG, C1-C5
0
3
ROP (min/ft)
0
250
Gamma (API)
0
11500
11550
11600
11650
11700
7060 TVD
MD 11509 TVD 7110.0
Inc 91.5°
MD 11540 TVD 7112.54
Az 270.18° Inc 92.68°
Shale Chanel
7110
MD 11625 TVD 7108.71
Az 270.25° Inc 92.49°
SH 100%: dkgy-blk, sft, sbplty-sbblky, slty, grty,
vs cal. Tr Mrlst. Tr Bent.
SH 100%: dkgy-blk, sft, sbplty-sbblky, slty, grty,
vs cal. Tr Bent. Tr Mrlst.
SH 100%: dkgy-blk, sft, sbplty-sbblky, slty, grty,
vs cal. Tr Bent. Tr Mrlst.
7160
SH 100%: dkgy-blk, sft, sbplty-sbblky, slty, grty,
vs cal.
SH 100%: dkgy-blk, sft, sbplty-sbblky, slty, grt
vs cal.


MW: 10.0 / VIS: 48
MW: 10.0 / VIS: 48
MW: 9.95
4000
TG, C1-C5
0
3
ROP (min/ft)
0
250
Gamma (API)
0
11750
11800
11850
11900
7060 TVD
711 TVD
0.38° In
MD 11796 TVD 7101.24
Az 270.82° Inc 92.34°
7110
MD 11881 TVD 7098.03
Az 270.85° Inc 92°
B
B
SH 100%: dkgy-blk, sft, sbplty-sbblky, slty, grty,
vs cal. Tr Py.
SH 100%: dkgy-blk, sft, sbplty-sbblky, slty, grty,
vs cal. Tr Py.
SH 100%: dkgy-blk, sft, sbplty-sbblky, slty, grty,
vs cal. Tr Mrlst.
SH 100%: dkgy-blk, sft, sbplty-sbblky, slty, grty,
vs cal. Tr Mrlst.
SH 100%: dkgy-bl
vs cal. Tr Bent.
7160


MW: 10.0 / VIS: 48
MW: 10.0 / VIS: 48
4000
TG, C1-C5
0
3
ROP (min/ft)
0
250
Gamma (API)
0
12000
12050
12100
12150
7060 TVD
7050 TVD
MD 11966 TVD 7095.13
Az 270.98° Inc 91.91°
MD 12000 TVD 7097.9
Inc 91.5°
MD 12052 TVD 7092.61
Az 271.06° Inc 91.44°
MD 12137 TVD 7091.16
Az 270.74° Inc 90.52°
Scale Change
7110
7100
7160
7150
k, sft, sbplty-sbblky, slt
SH 100%: dkgy-blk, sft, sbplty-sbblky, slty, grty,
vs cal. Tr Bent.
SH 100%: dkgy-blk, sft, sbplty-sbblky, slty, grty,
vs cal. Tr Bent. Tr Py.
SH 100%: dkgy-blk, sft, sbplty-sbblky, slty, grty,
vs cal. Tr Bent. Tr Py.
SH 100%: dkgy-blk, sft, sbplty-sbblky, slty, grty,
vs cal. Tr Bent.


MW: 9.9 / VIS: 48
MW: 9.9 / VIS: 48
4000
TG, C1-C5
0
3
ROP (min/ft)
0
250
Gamma (API)
0
12200
12250
12300
12350
12400
7050 TVD
4:00am 8/10/14 Depth @ 12200' MD
MD 12222 TVD 7090.09
Az 270.5° Inc 90.92°
MD 12307 TVD 7088.48
Az 269.26° Inc 91.25°
MD 12392 TVD 7087.19
Az 268.97° Inc 90.49°
7100
SH 100%: dkgy-blk, sft, sbplty-sbblky, slty, grty,
vs cal. Tr Bent.
SH 100%: dkgy-blk, sft, sbplty-sbblky, slty, grty,
vs cal. Tr Bent.
SH 100%: dkgy-blk, sft, sbplty-sbblky, slty, grty,
vs cal. Tr Bent.
SH 100%: dkgy-blk, sft, sbplty-sbblky, slty, grty,
vs cal. Tr Bent.
SH 100%: dkgy-blk, sft, sbplty-sbblky, slty, grty
vs cal. Tr Bent.
7150


MW: 9.9 / VIS: 47
MW: 9.8 / VIS: 47
MW: 9.8
4000
TG, C1-C5
0
3
ROP (min/ft)
0
250
Gamma (API)
0
12450
12500
12550
12600
7050 TVD
Fault From C Shale To C Chalk
MD 12477 TVD 7086.19
Az 270.53° Inc 90.86°
MD 12562 TVD 7084.23
Az 270.95° Inc 91.78°
7100
Chalky Mrlst 90%: lt-md gr, v calc, intbd biocl, frm, sbplty, no sfl, slw str wh-ylw cut. SH 10%: gy-dkgy, sft, sbplty-sbblky, slty, grty, vs cal. Tr Bent.
Mrlst 85%: md gr-drk
sbplty, no sfl, slw str
15%: lt-md gr, v calc,
sfl, slw str wh-ylw cu
SH 100%: dkgy-blk, sft, sbplty-sbblky, slty, grty, vs cal. Tr Bent.
SH 100%: dkgy-blk, sft, sbplty-sbblky, slty, grty, vs cal. Tr Bent.
Chalky Mrlst 90%: lt-md gr, v calc, intbd biocl, frm, sbplty, no sfl, slw str wh-ylw cut. SH 10%: gy-dkgy, sft, sbplty-sbblky, slty, grty, vs cal. Tr Bent.
7150


MW: 9.8 / VIS: 47
4000
TG, C1-C5
0
No Recorded
Pason Gas Data
TD of 12829' MD Achieved @
2:19PM 08/10/14.
3
ROP (min/ft)
0
250
Gamma (API)
0
Two man logging unit
with sample program
released 08/10/14.
12700
12750
12800
12850
7050 TVD
7100
7150
D 12647 TVD
z 270.99° In
MD 12733 TVD 7080.59
Az 271.31° Inc 90.58°
MD 12768 TVD 7080.27
Az 271.03° Inc 90.49°
gr, v calc, intbd bio
wh-ylw cut.Chalk
intbd biocl, frm, sb
Mrlst 85%: md gr-drk gr, v calc, intbd biocl, frm,
sbplty, no sfl, slw str wh-ylw cut.Chalky Mrlst
15%: lt-md gr, v calc, intbd biocl, frm, sbplty, no
sfl, slw str wh-ylw cut.
Mrlst 100%: md gr-drk gr, v calc, intbd biocl, frm,
sbplty, no sfl, slw str wh-ylw cut.
Mrlst 100%: md gr-drk gr, v calc, intbd biocl, frm,
sbplty, no sfl, slw str wh-ylw cut.