Scale 1:600 (2"=100') Metric
Measured Depth Log

Well Name:	**Eisenach Federal 5N-8HZ**		
Location:	**Weld County, CO**		
License Number:	**05123355730000**	**Region:**	**DJ Basin**
Spud Date:	**07/16/2013**	**Drilling Completed:**	**08/29/2013**
Surface Coordinates:	**1808' FNL, 305' FEL**		
	Sec 8, T3N, T66W		
Bottom Hole	**1685' FNL, 1' FWL**		
Coordinates:	**Sec 8, T3N, R66W**		
Ground Elevation (m):	**4826'**	**K.B. Elevation (m):**	**4851**
Logged Interval (m):	**7300'** **To: 12059'**	**Total Depth (m):**	**12059'**
Formation:	**Niobrara B**		
Type of Drilling Fluid:	**Water Based 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

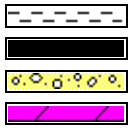
GEOLOGIST

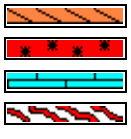
Name: Justin Robbins / Justin Graf
Company: Great Divide Consulting, Inc.
Address: P.O. Box 630263
Highlands Ranch, CO 80163

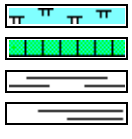
Comments

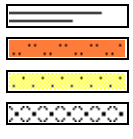
ROCK TYPES

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
Spr calc
Pyr
Salt
Sandy
Silt
Sil
Sulphur
Tuff
New symbol
New symbol

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

BS Boundst
C Chalky
CX Cryxln
E Earthy
FX Finexln
GS Grainst
L Lithogr
MX Microxln
MS Mudst
PS Packst
WS Wackest

OTHER SYMBOLS

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

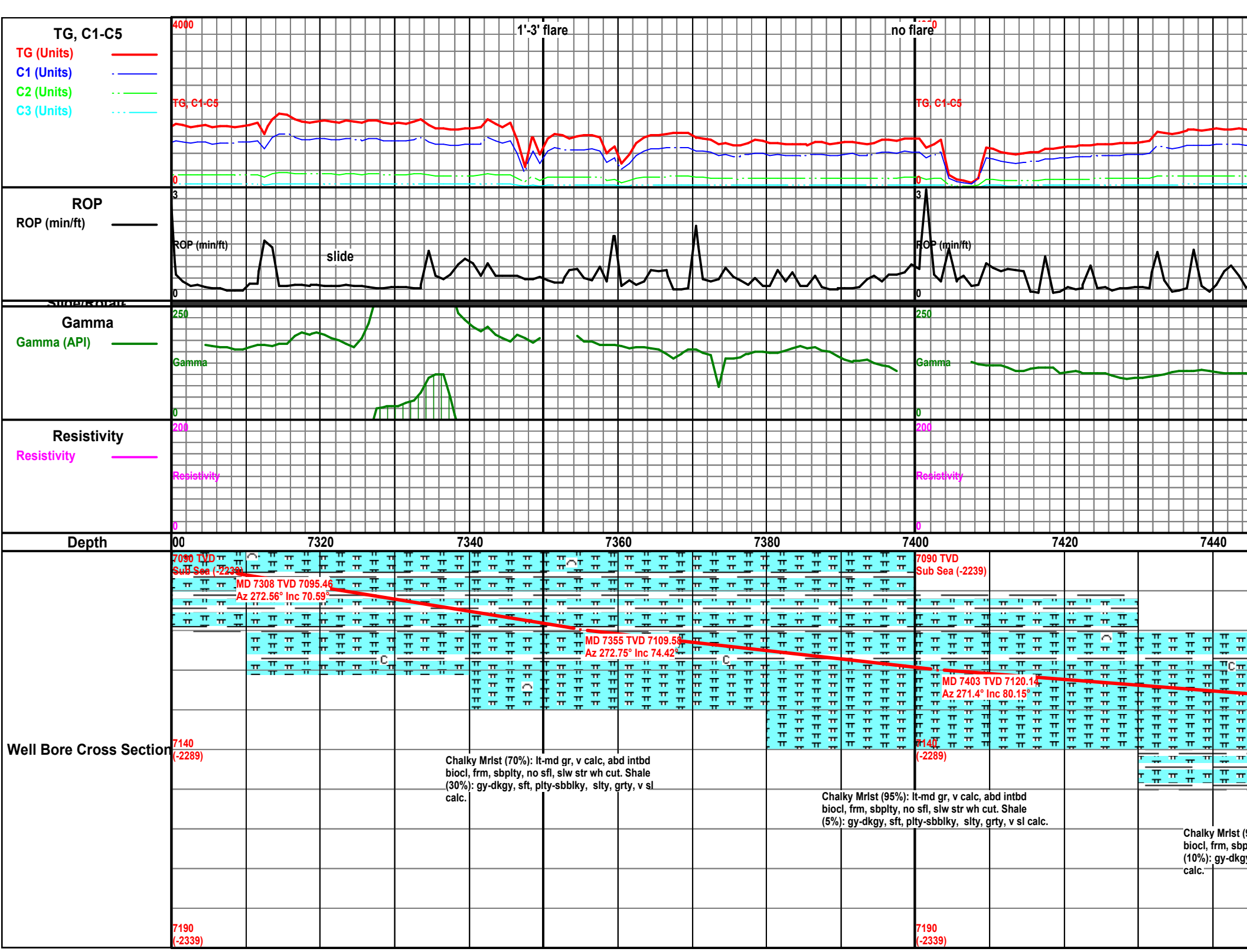
SORTING
- Well
- Moderate
- Poor

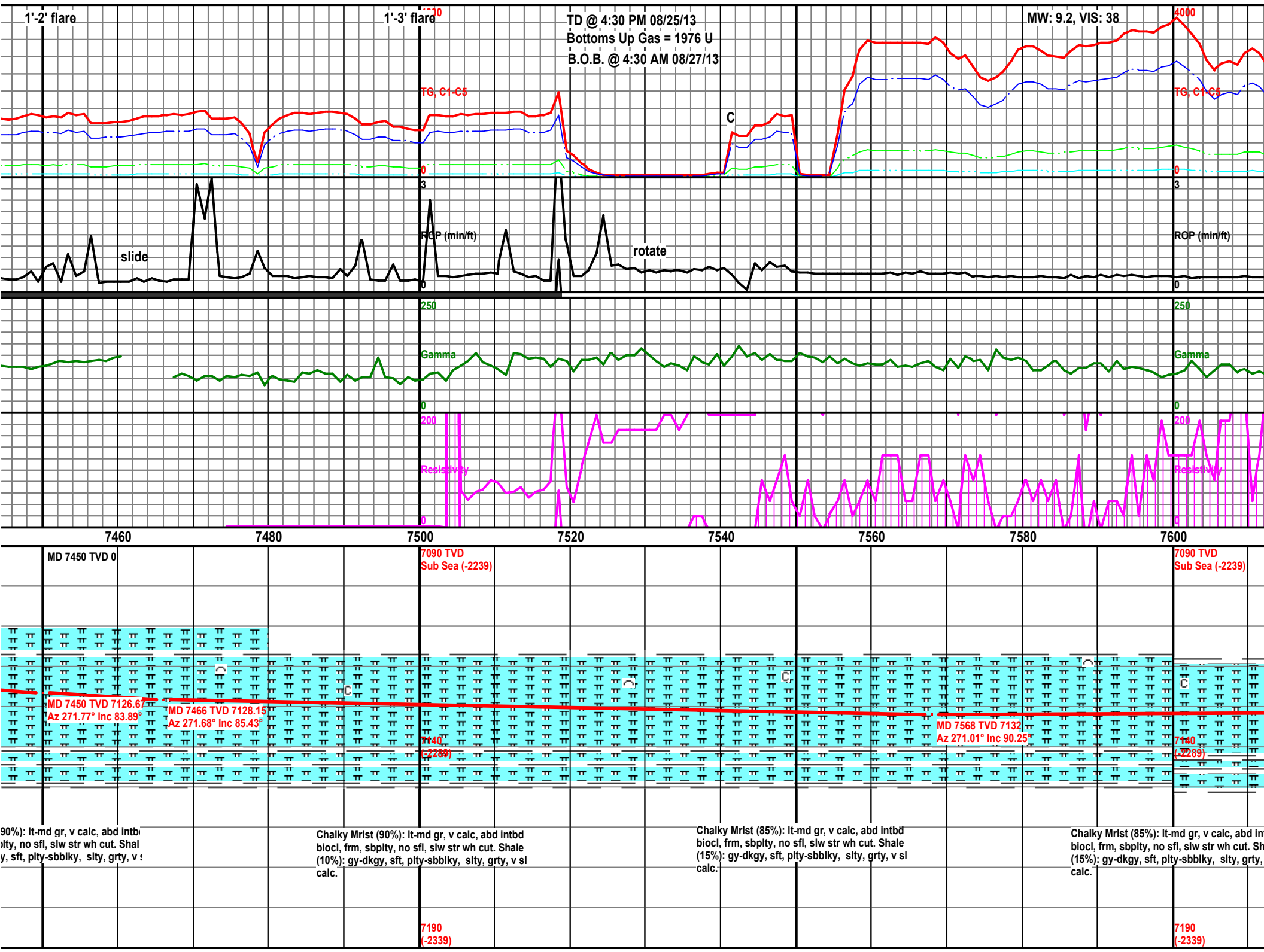
ROUNDING
- Rounded
- Subrnd
- Subang
- Angular

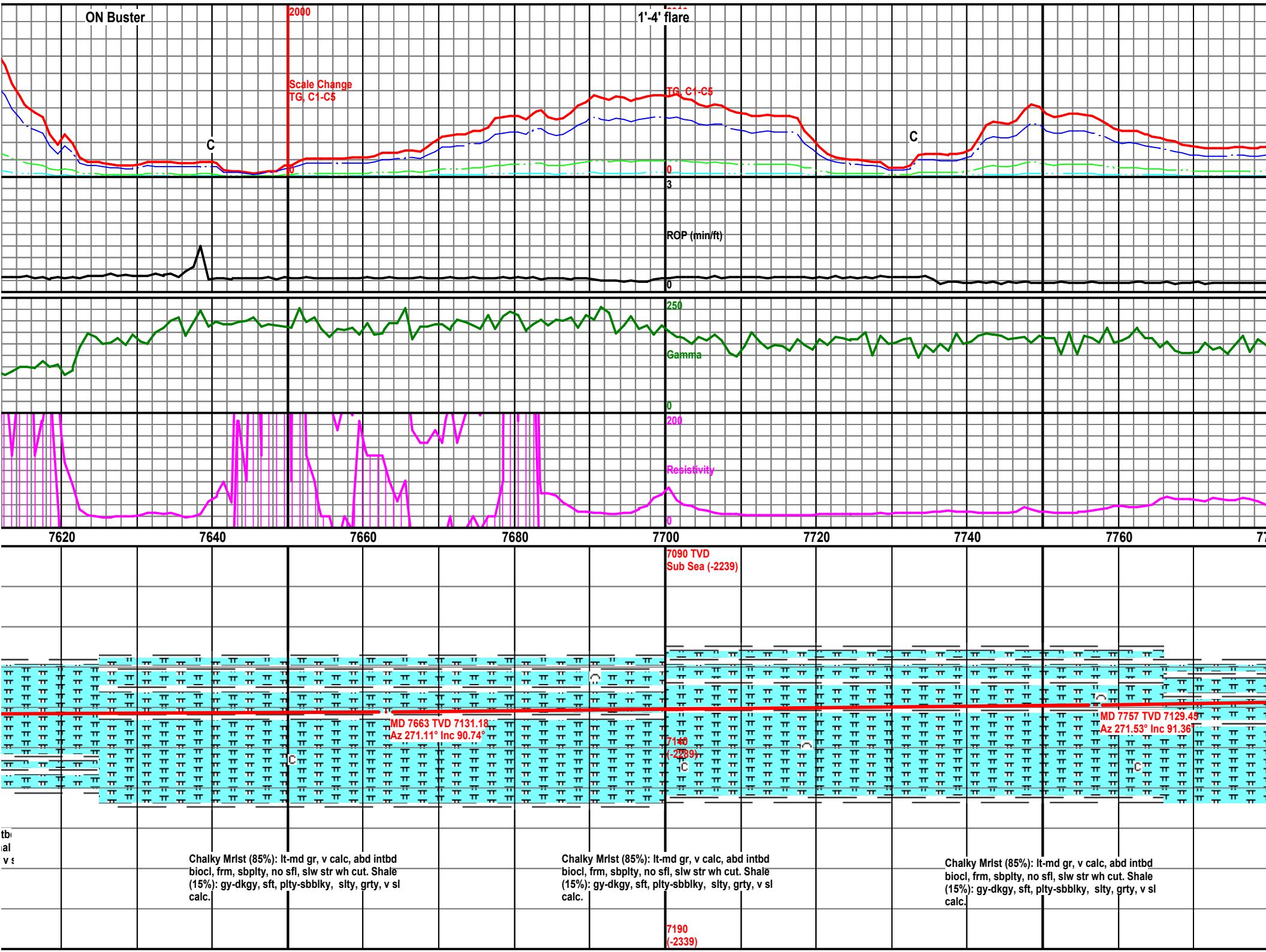
OIL SHOW
- Even
- Spotted
- Ques
- Dead

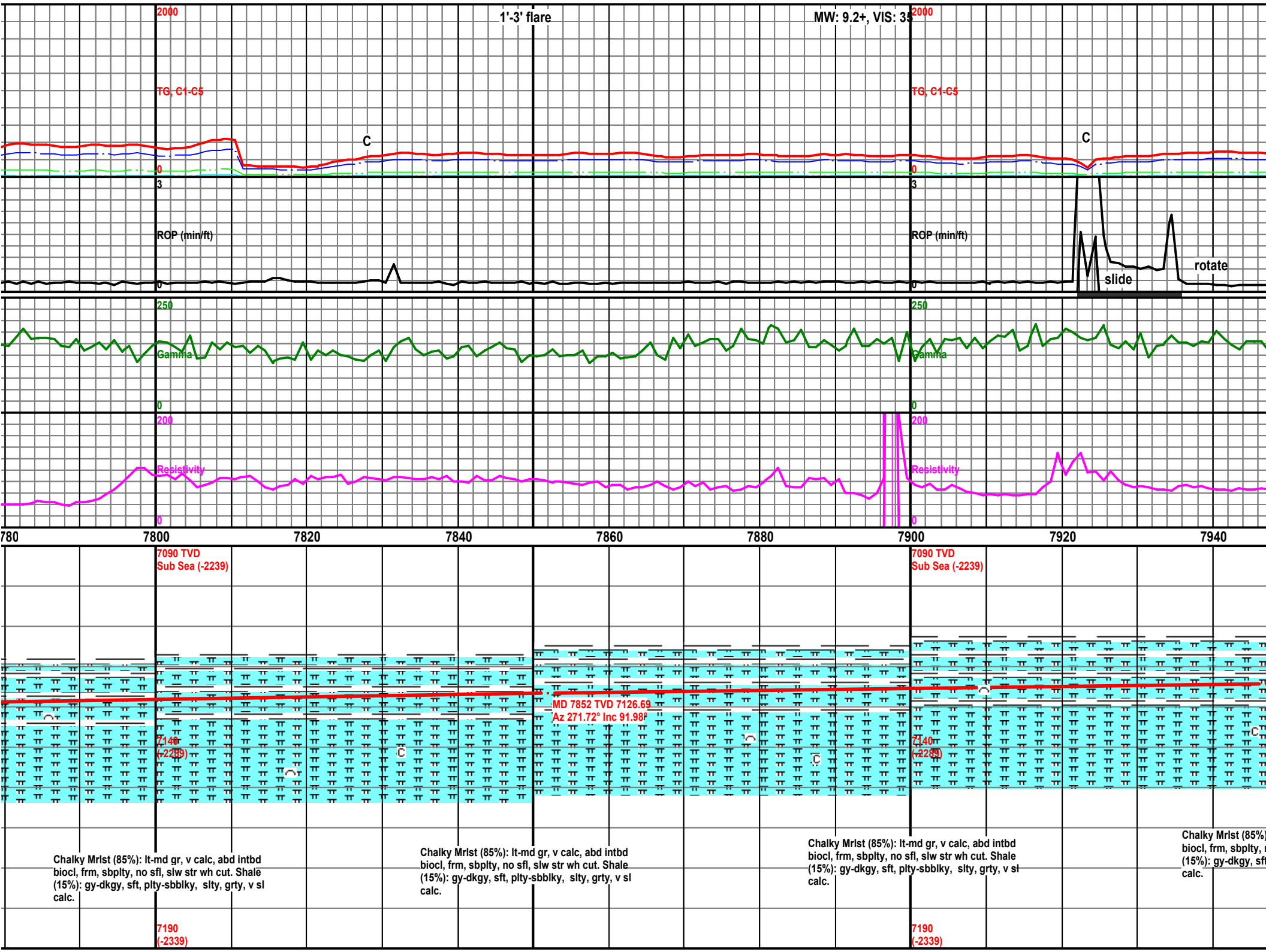
INTERVAL
- Core
- Dst

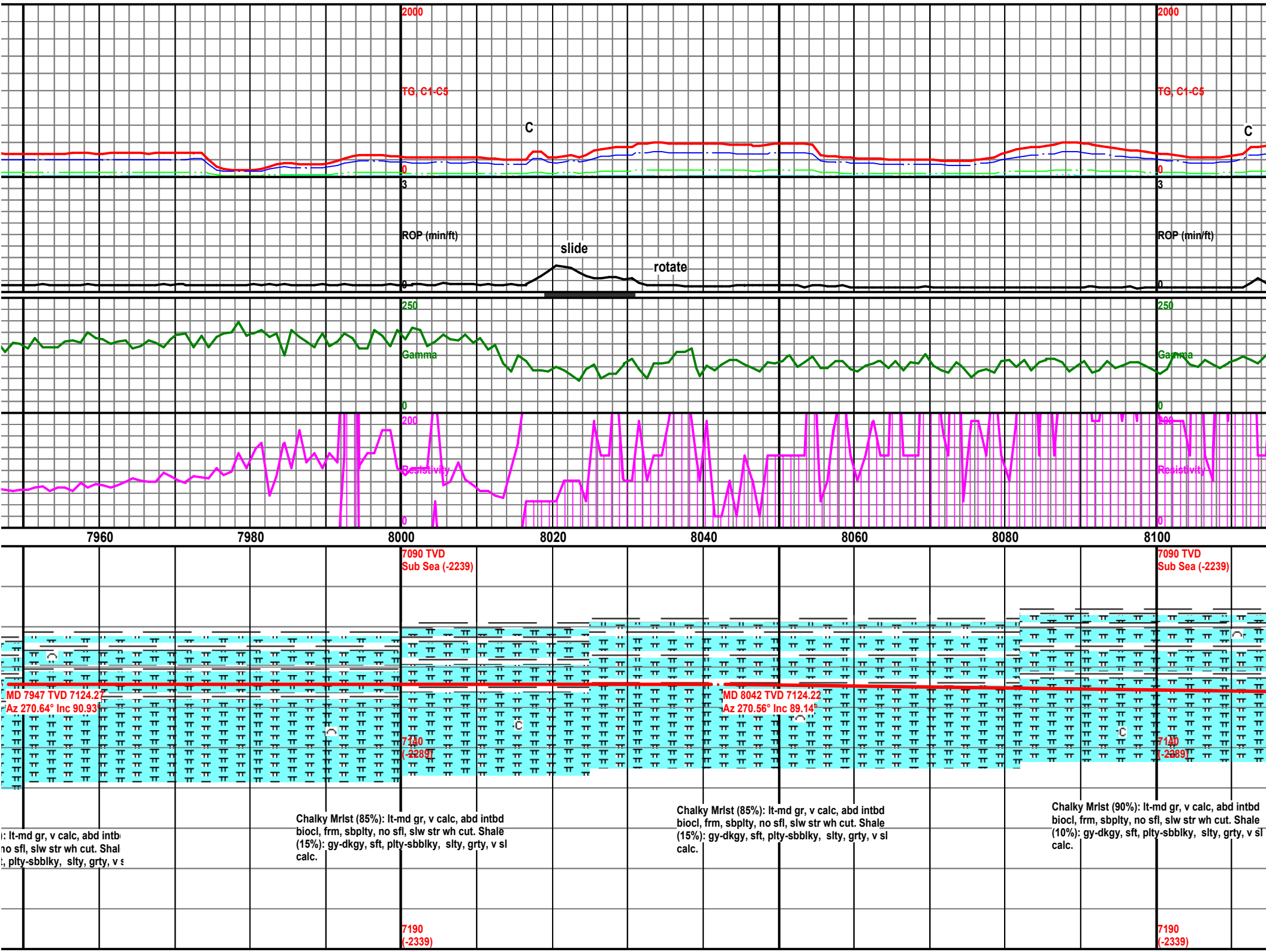
EVENT
- Rft
- Sidewall

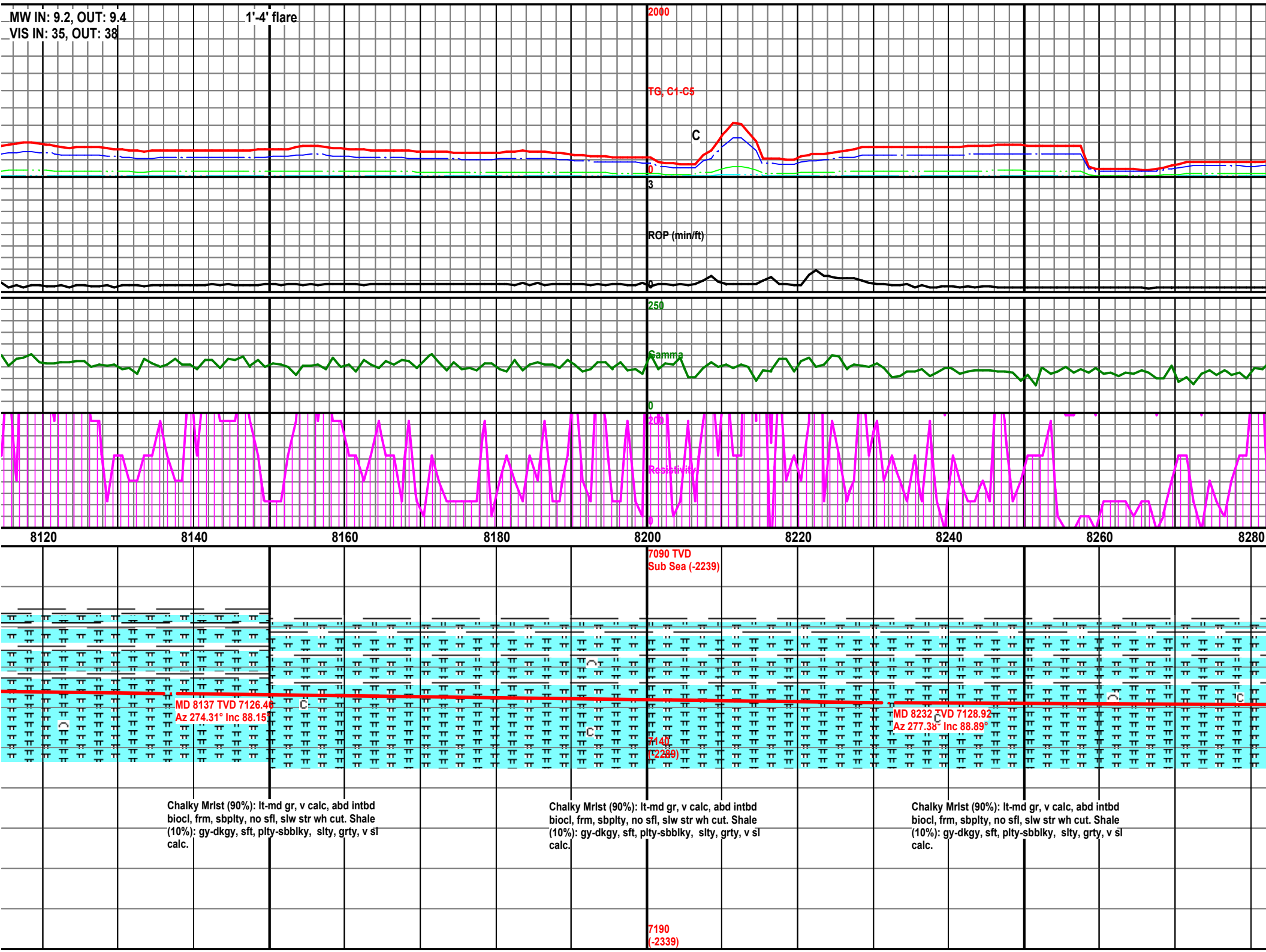

TG, C1-C5
TG (Units)
C1 (Units)
C2 (Units)
C3 (Units)
4000
1'-3' flare
no flare
TG, C1-C5
0
ROP
ROP (min/ft)
3
slide
0
Gamma
Gamma (API)
250
Gamma
0
Resistivity
Resistivity
200
Resistivity
0
Depth
7320
7340
7360
7380
7400
7420
7440
Well Bore Cross Section
7090 TVD
Sub Sea (-2239)
MD 7308 TVD 7095.46
Az 272.56° Inc 70.59°
MD 7355 TVD 7109.58
Az 272.75° Inc 74.42°
MD 7403 TVD 7120.14
Az 271.4° Inc 80.15°
7140
(-2289)
7190
(-2339)
Chalky Mrlst (70%): lt-md gr, v calc, abd intbd biocl, frm, sbplty, no sfl, slw str wh cut. Shale (30%): gy-dkgy, sft, plty-sbblky, slty, grty, v sl calc.
Chalky Mrlst (95%): lt-md gr, v calc, abd intbd biocl, frm, sbplty, no sfl, slw str wh cut. Shale (5%): gy-dkgy, sft, plty-sbblky, slty, grty, v sl calc.

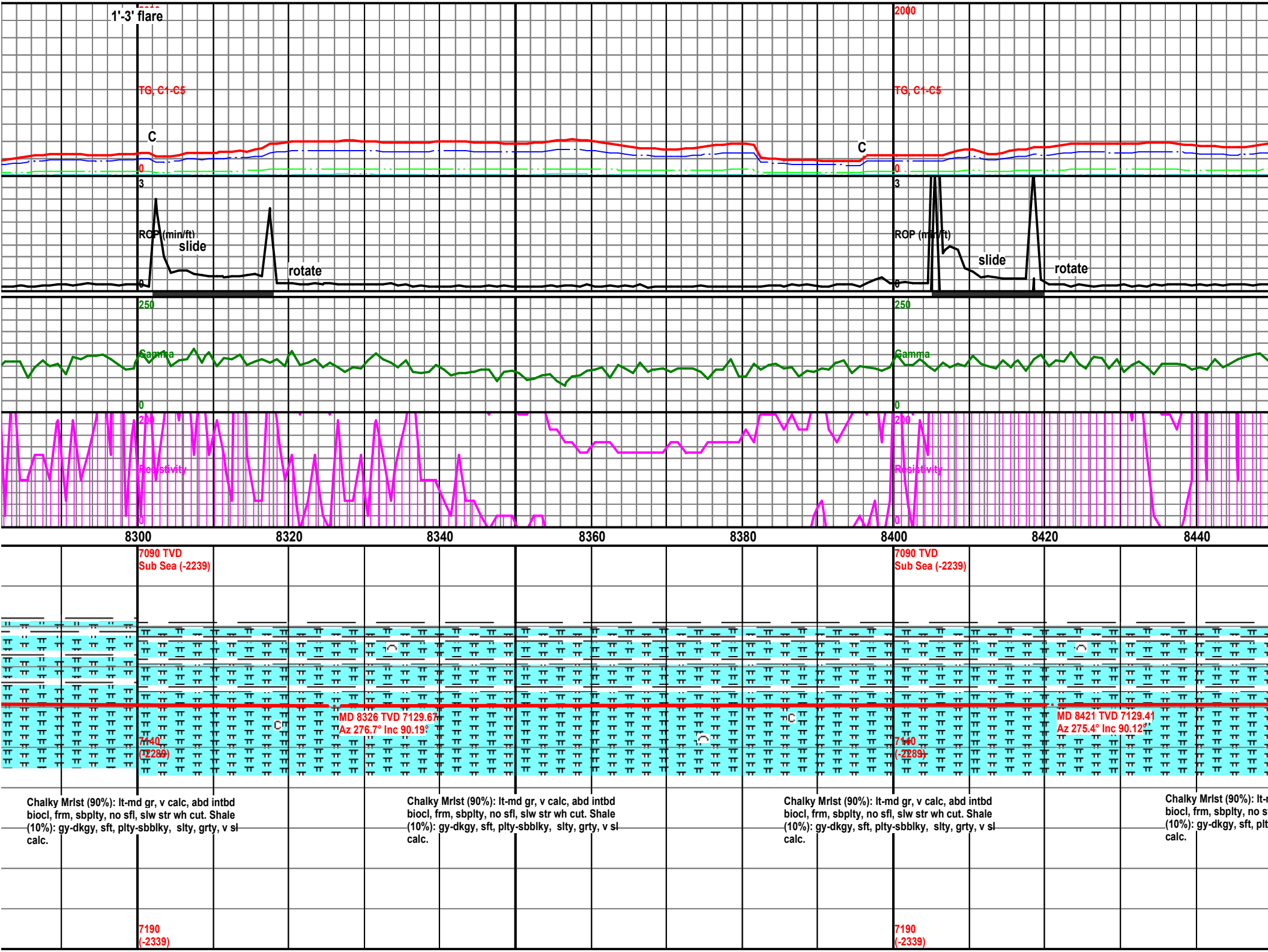

1'-2' flare
1'-3' flare
TD @ 4:30 PM 08/25/13
Bottoms Up Gas = 1976 U
B.O.B. @ 4:30 AM 08/27/13
MW: 9.2, VIS: 38
4000
TG, C1-C5
C
0
3
ROP (min/ft)
slide
rotate
250
Gamma
200
Resistivity
7460
7480
7500
7520
7540
7560
7580
7600
MD 7450 TVD 0
7090 TVD
Sub Sea (-2239)
MD 7450 TVD 7126.67
Az 271.77° Inc 83.89°
MD 7466 TVD 7128.15
Az 271.68° Inc 85.43°
MD 7568 TVD 7132
Az 271.01° Inc 90.25°
7140
(-2289)
Chalky Mrlst (90%): lt-md gr, v calc, abd intbd biocl, frm, sbplty, no sfl, slw str wh cut. Shale (10%): gy-dkgy, sft, plty-sbblky, slty, grty, v sl calc.
Chalky Mrlst (85%): lt-md gr, v calc, abd intbd biocl, frm, sbplty, no sfl, slw str wh cut. Shale (15%): gy-dkgy, sft, plty-sbblky, slty, grty, v sl calc.
7190
(-2339)

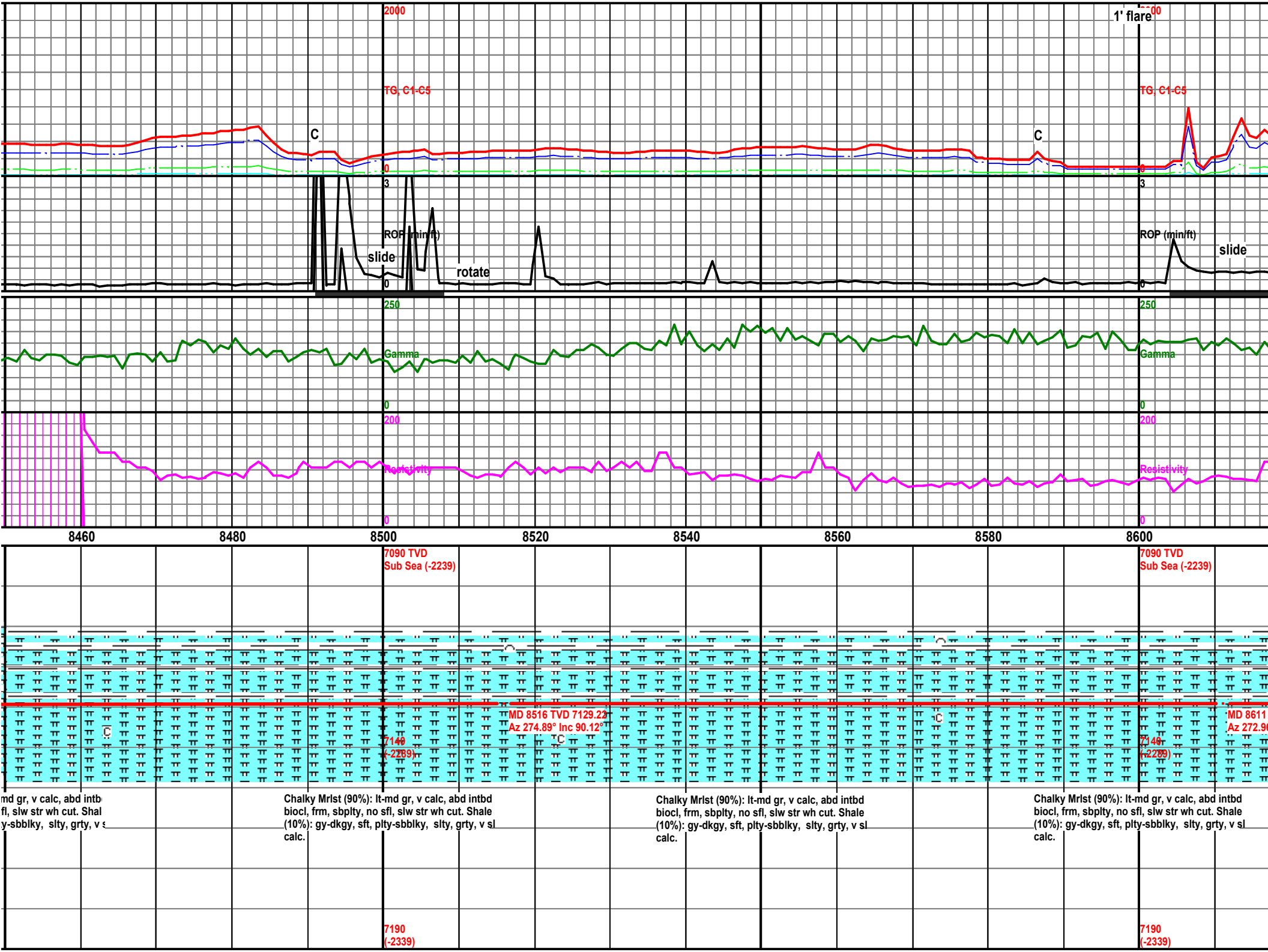

ON Buster
2000
Scale Change
TG, C1-C5
C
1'-4' flare
TG, C1-C5
C
0
3
ROP (min/ft)
0
250
Gamma
0
200
Resistivity
0
7620
7640
7660
7680
7700
7720
7740
7760
7090 TVD
Sub Sea (-2239)
MD 7663 TVD 7131.18
Az 271.11° Inc 90.74°
7190
(-2239)
MD 7757 TVD 7129.45
Az 271.53° Inc 91.36°
Chalky Mrlst (85%): lt-md gr, v calc, abd intbd biocl, frm, sbplty, no sfl, slw str wh cut. Shale (15%): gy-dkgy, sft, plty-sbblky, slty, grty, v sl calc.
Chalky Mrlst (85%): lt-md gr, v calc, abd intbd biocl, frm, sbplty, no sfl, slw str wh cut. Shale (15%): gy-dkgy, sft, plty-sbblky, slty, grty, v sl calc.
Chalky Mrlst (85%): lt-md gr, v calc, abd intbd biocl, frm, sbplty, no sfl, slw str wh cut. Shale (15%): gy-dkgy, sft, plty-sbblky, slty, grty, v sl calc.
7190
(-2339)

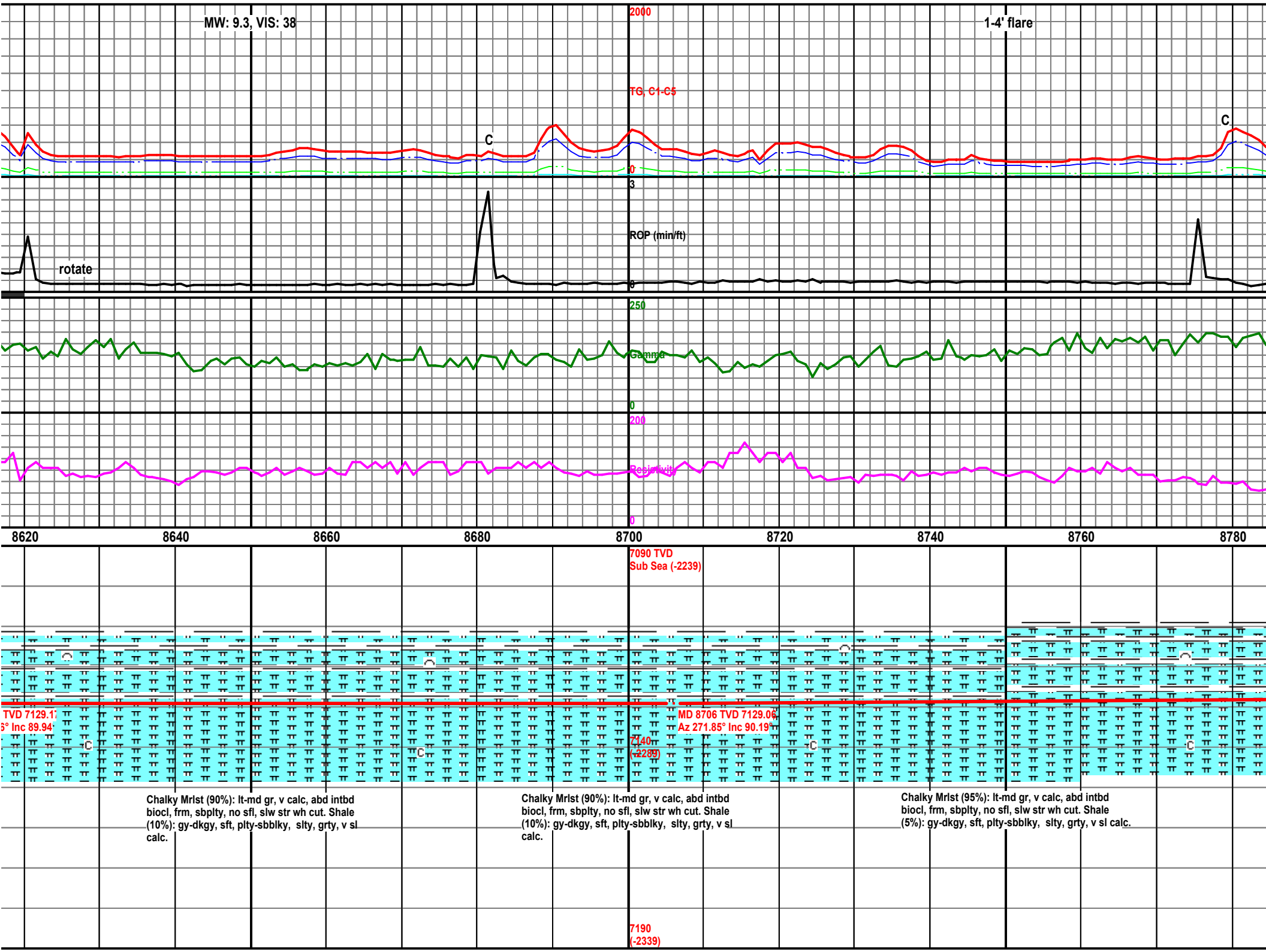

1'-3' flare
MW: 9.2+, VIS: 35
2000
TG, C1-C5
0
C
3
ROP (min/ft)
0
slide
rotate
250
Gamma
0
200
Resistivity
0
780
7800
7820
7840
7860
7880
7900
7920
7940
7090 TVD
Sub Sea (-2239)
7140
(-2289)
MD 7852 TVD 7126.69
Az 271.72° Inc 91.98°
Chalky Mrlst (85%): lt-md gr, v calc, abd intbd biocl, frm, sbplty, no sfl, slw str wh cut. Shale (15%): gy-dkgy, sft, plty-sbblky, slty, grty, v sl calc.
7190
(-2339)

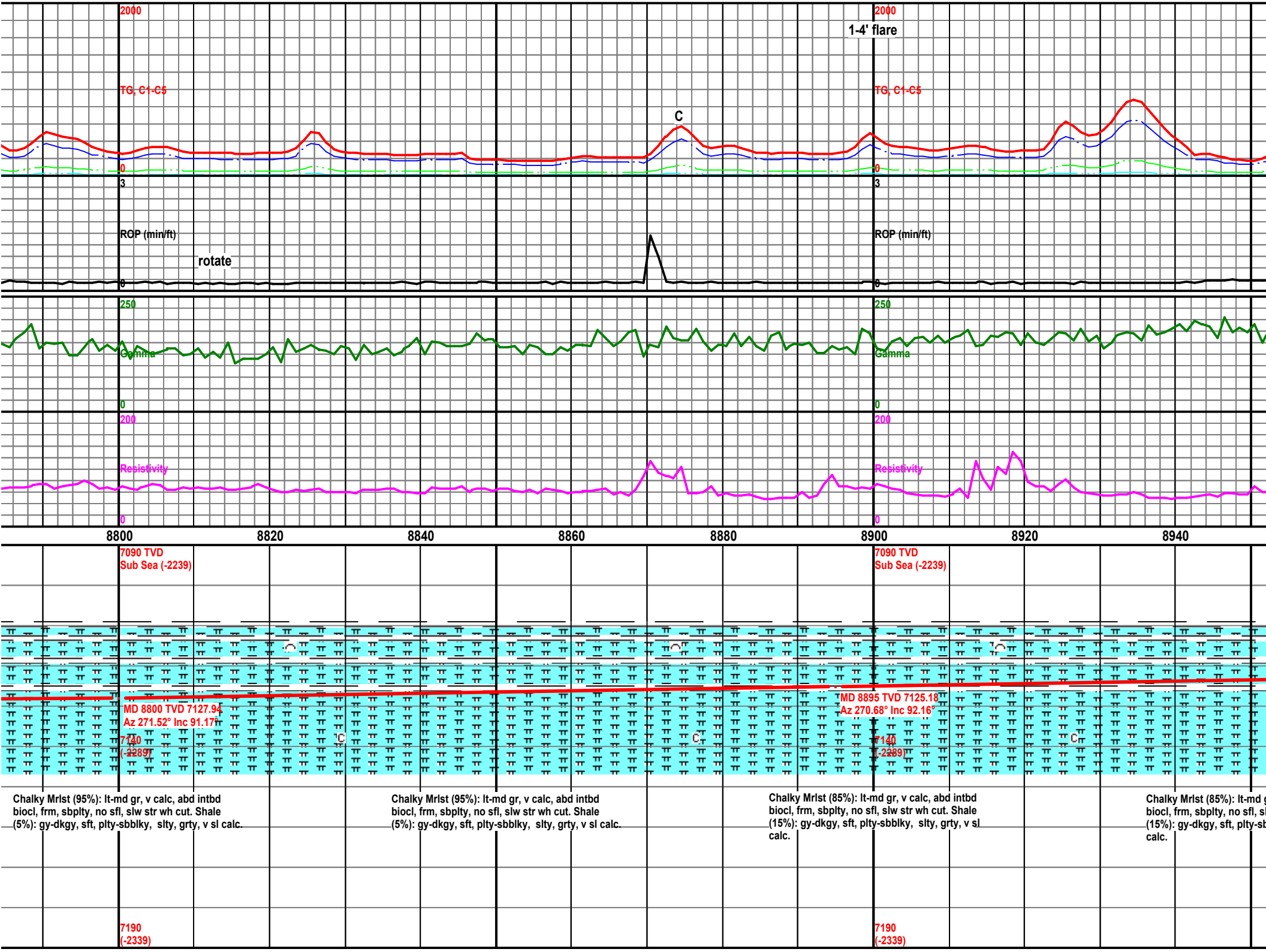

2000
TG, C1-C5
C
0
3
ROP (min/ft)
slide
rotate
0
250
Gamma
0
200
Resistivity
0
7960
7980
8000
8020
8040
8060
8080
8100
7090 TVD
Sub Sea (-2239)
MD 7947 TVD 7124.22
Az 270.64° Inc 90.93°
MD 8042 TVD 7124.22
Az 270.56° Inc 89.14°
7140
(-2289)
Chalky Mrlst (85%): lt-md gr, v calc, abd intbd biocl, frm, sbplty, no sfl, slw str wh cut. Shale (15%): gy-dkgy, sft, plty-sbblky, slty, grty, v sl calc.
Chalky Mrlst (90%): lt-md gr, v calc, abd intbd biocl, frm, sbplty, no sfl, slw str wh cut. Shale (10%): gy-dkgy, sft, plty-sbblky, slty, grty, v sl calc.
7190
(-2339)

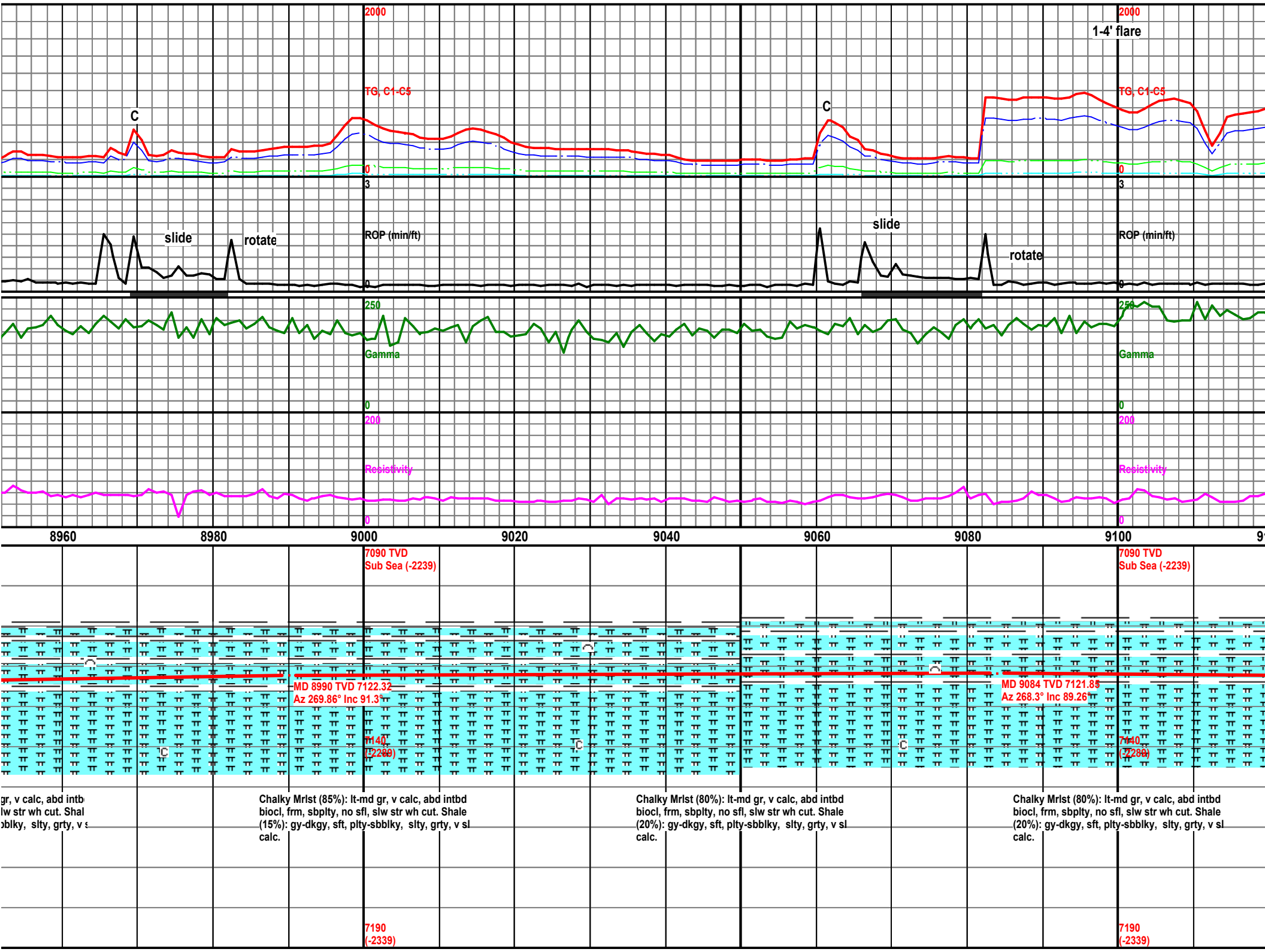

MW IN: 9.2, OUT: 9.4
VIS IN: 35, OUT: 38
1'-4' flare
2000
TG, C1-C5
C
0
3
ROP (min/ft)
0
250
Gamma
0
200
Resistivity
0
8120
8140
8160
8180
8200
8220
8240
8260
8280
7090 TVD
Sub Sea (-2239)
MD 8137 TVD 7126.46
Az 274.31° Inc 88.15°
MD 8232 TVD 7128.92
Az 277.38° Inc 88.89°
7140
(-2289)
7190
(-2339)
Chalky Mrlst (90%): lt-md gr, v calc, abd intbd biocl, frm, sbplty, no sfl, slw str wh cut. Shale (10%): gy-dkgy, sft, plty-sbblky, slty, grty, v sl calc.
Chalky Mrlst (90%): lt-md gr, v calc, abd intbd biocl, frm, sbplty, no sfl, slw str wh cut. Shale (10%): gy-dkgy, sft, plty-sbblky, slty, grty, v sl calc.
Chalky Mrlst (90%): lt-md gr, v calc, abd intbd biocl, frm, sbplty, no sfl, slw str wh cut. Shale (10%): gy-dkgy, sft, plty-sbblky, slty, grty, v sl calc.

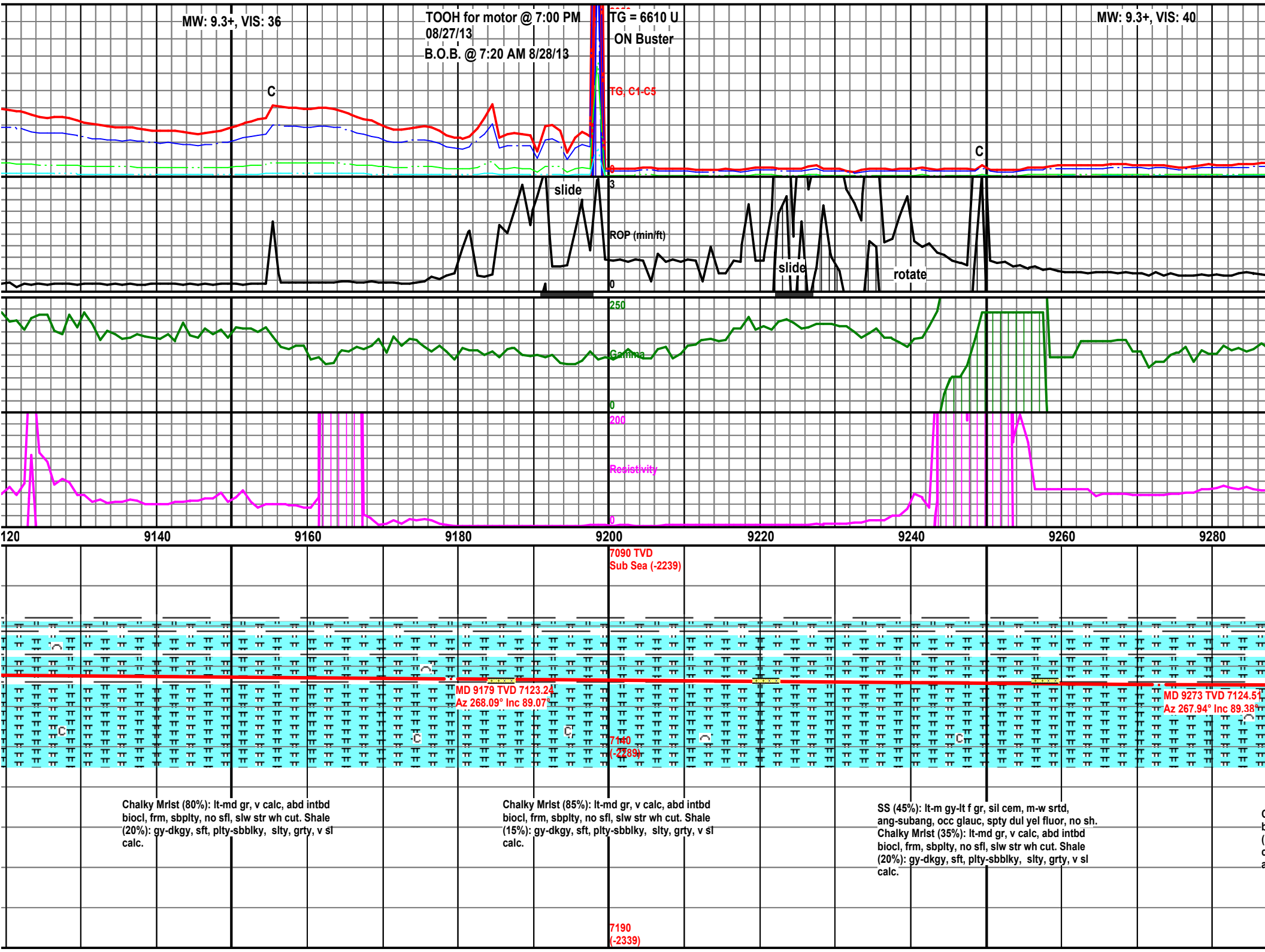

1'-3' flare
TG, C1-C5
C
0
3
ROP (min/ft)
slide
rotate
250
Gamma
0
200
Resistivity
0
8300
8320
8340
8360
8380
8400
8420
8440
7090 TVD
Sub Sea (-2239)
7140
(-2289)
MD 8326 TVD 7129.67
Az 276.7° Inc 90.19°
MD 8421 TVD 7129.41
Az 275.4° Inc 90.12°
Chalky Mrlst (90%): lt-md gr, v calc, abd intbd biocl, frm, sbplty, no sfl, slw str wh cut. Shale (10%): gy-dkgy, sft, plty-sbblky, slty, grty, v sl calc.
7190
(-2339)

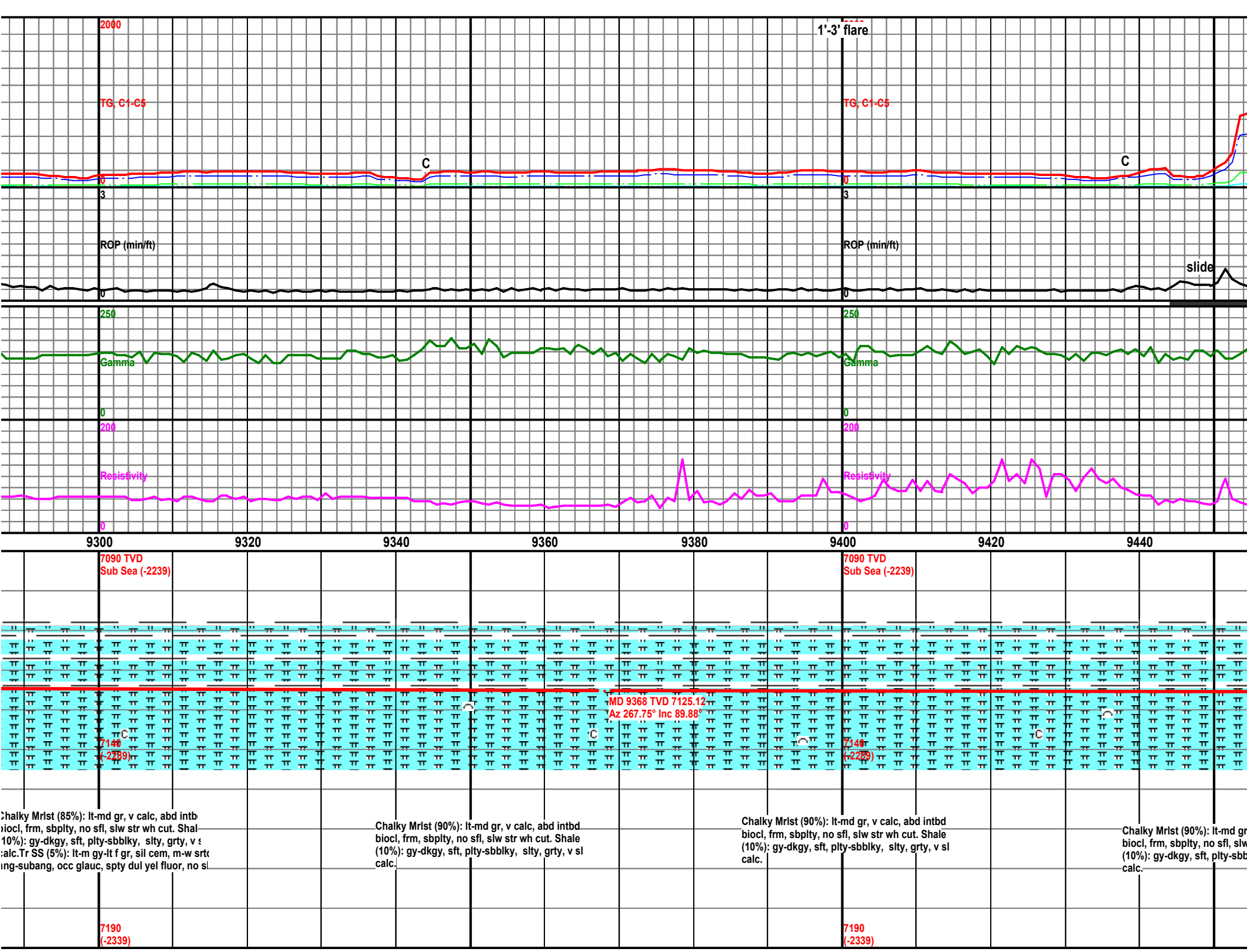

2000
TG, C1-C5
0
C
C
1' flare
TG, C1-C5
3
ROP (min/ft)
slide
rotate
0
ROP (min/ft)
slide
0
250
Gamma
0
250
Gamma
0
200
Resistivity
0
200
Resistivity
0
8460
8480
8500
8520
8540
8560
8580
8600
7090 TVD
Sub Sea (-2239)
MD 8516 TVD 7129.23
Az 274.89° Inc 90.12°
7140
(-2289)
7090 TVD
Sub Sea (-2239)
MD 8611
Az 272.9
7140
(-2289)
md gr, v calc, abd intb
fl, slw str wh cut. Shal
y-sbblky, slty, grty, v s
Chalky Mrlst (90%): lt-md gr, v calc, abd intbd biocl, frm, sbplty, no sfl, slw str wh cut. Shale (10%): gy-dkgy, sft, plty-sbblky, slty, grty, v sl calc.
Chalky Mrlst (90%): lt-md gr, v calc, abd intbd biocl, frm, sbplty, no sfl, slw str wh cut. Shale (10%): gy-dkgy, sft, plty-sbblky, slty, grty, v sl calc.
Chalky Mrlst (90%): lt-md gr, v calc, abd intbd biocl, frm, sbplty, no sfl, slw str wh cut. Shale (10%): gy-dkgy, sft, plty-sbblky, slty, grty, v sl calc.
7190
(-2339)
7190
(-2339)

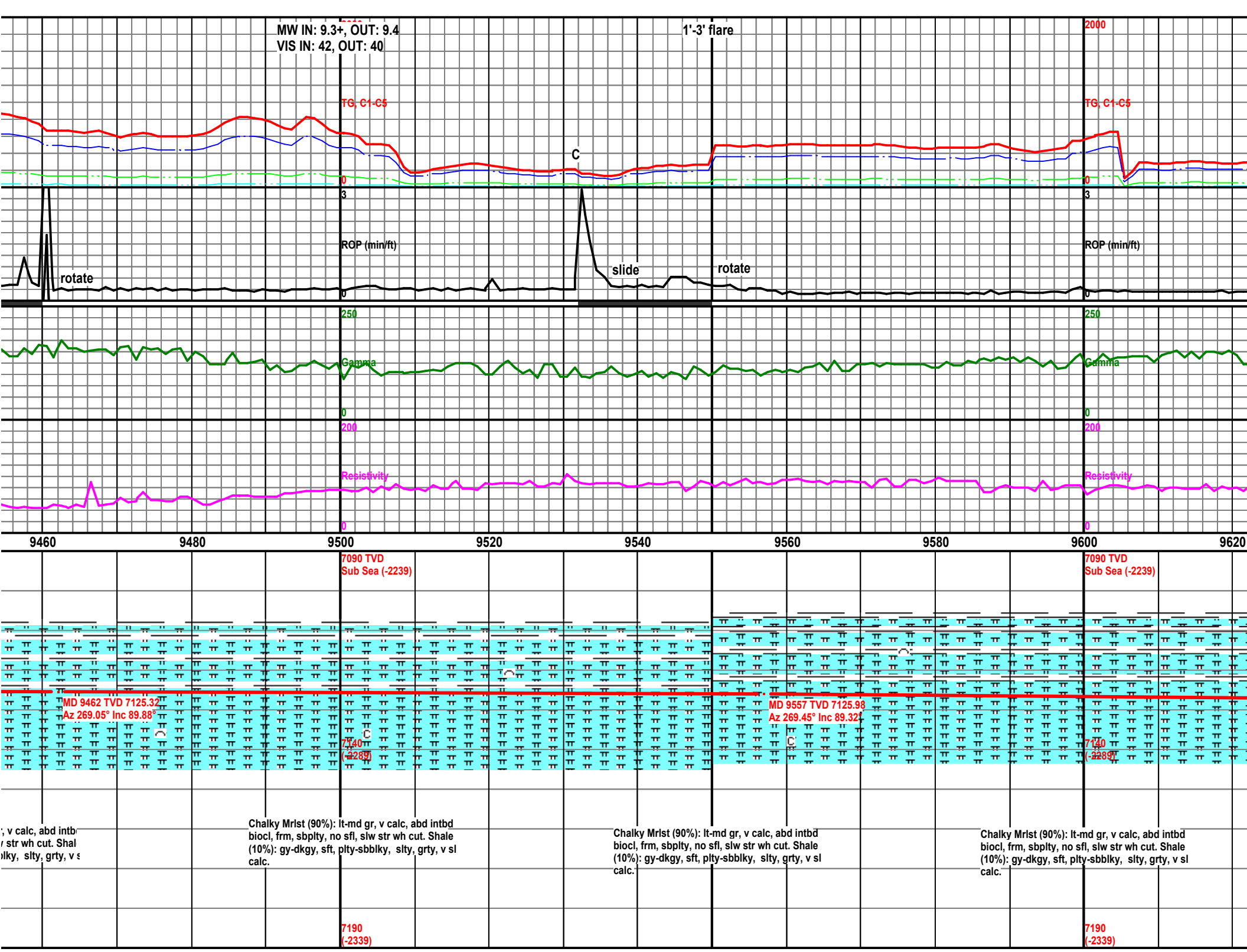

MW: 9.3, VIS: 38
2000
TG, C1-C5
0
C
1-4' flare
C
3
ROP (min/ft)
0
rotate
250
Gamma
0
200
Resistivity
0
8620
8640
8660
8680
8700
8720
8740
8760
8780
7090 TVD
Sub Sea (-2239)
TVD 7129.1
6° Inc 89.94
MD 8706 TVD 7129.06
Az 271.85° Inc 90.19°
7140
(-2289)
Chalky Mrlst (90%): lt-md gr, v calc, abd intbd biocl, frm, sbplty, no sfl, slw str wh cut. Shale (10%): gy-dkgy, sft, plty-sbblky, slty, grty, v sl calc.
Chalky Mrlst (90%): lt-md gr, v calc, abd intbd biocl, frm, sbplty, no sfl, slw str wh cut. Shale (10%): gy-dkgy, sft, plty-sbblky, slty, grty, v sl calc.
Chalky Mrlst (95%): lt-md gr, v calc, abd intbd biocl, frm, sbplty, no sfl, slw str wh cut. Shale (5%): gy-dkgy, sft, plty-sbblky, slty, grty, v sl calc.
7190
(-2339)

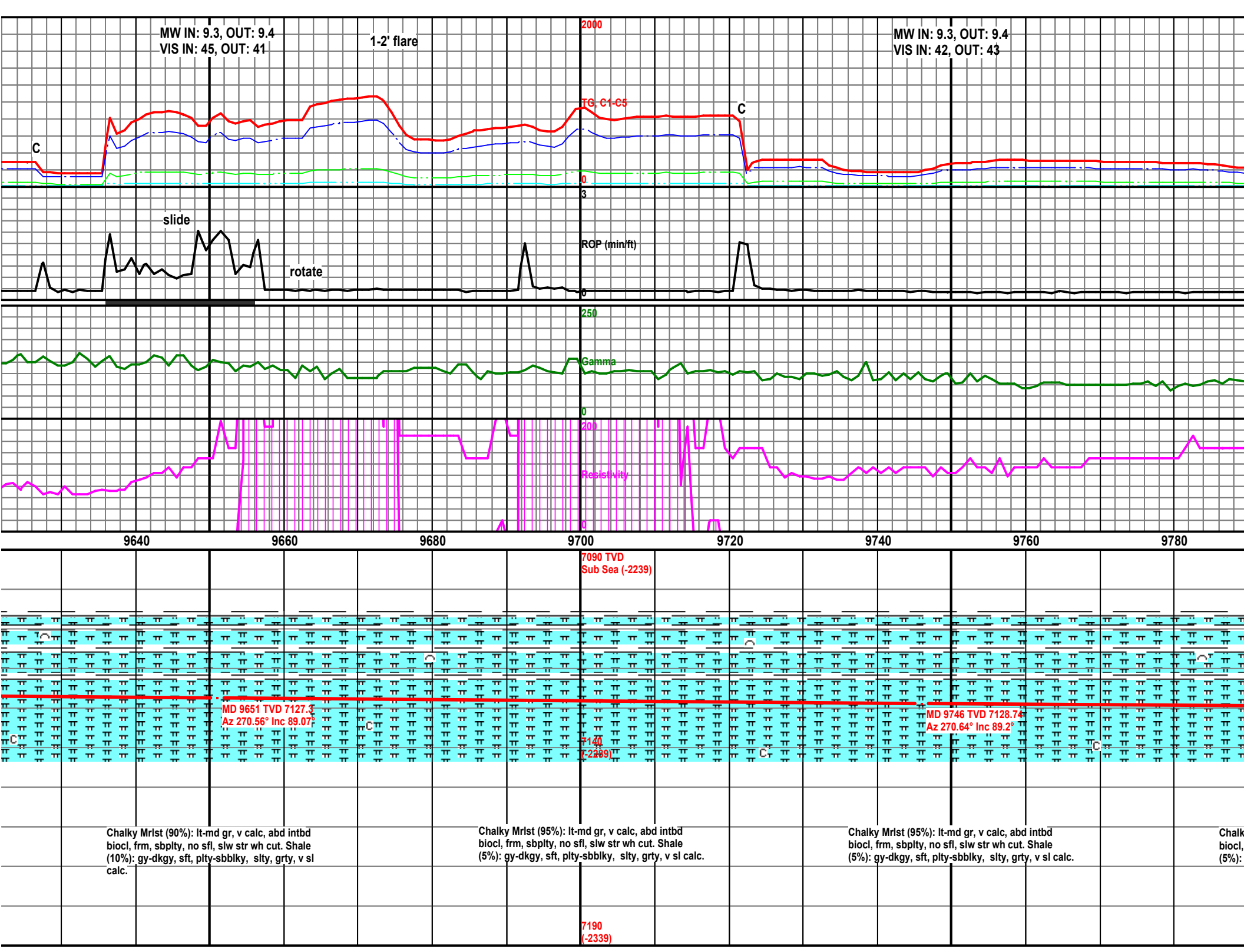

2000
TG, C1-C5
0
3
ROP (min/ft)
rotate
0
250
Gamma
0
200
Resistivity
0
C
1-4' flare
8800
8820
8840
8860
8880
8900
8920
8940
7090 TVD
Sub Sea (-2239)
MD 8800 TVD 7127.94
Az 271.52° Inc 91.17°
7140
(-2289)
MD 8895 TVD 7125.18
Az 270.68° Inc 92.16°
7190
(-2339)
Chalky Mrlst (95%): lt-md gr, v calc, abd intbd biocl, frm, sbplty, no sfl, slw str wh cut. Shale (5%): gy-dkgy, sft, plty-sbblky, slty, grty, v sl calc.
Chalky Mrlst (85%): lt-md gr, v calc, abd intbd biocl, frm, sbplty, no sfl, slw str wh cut. Shale (15%): gy-dkgy, sft, plty-sbblky, slty, grty, v sl calc.

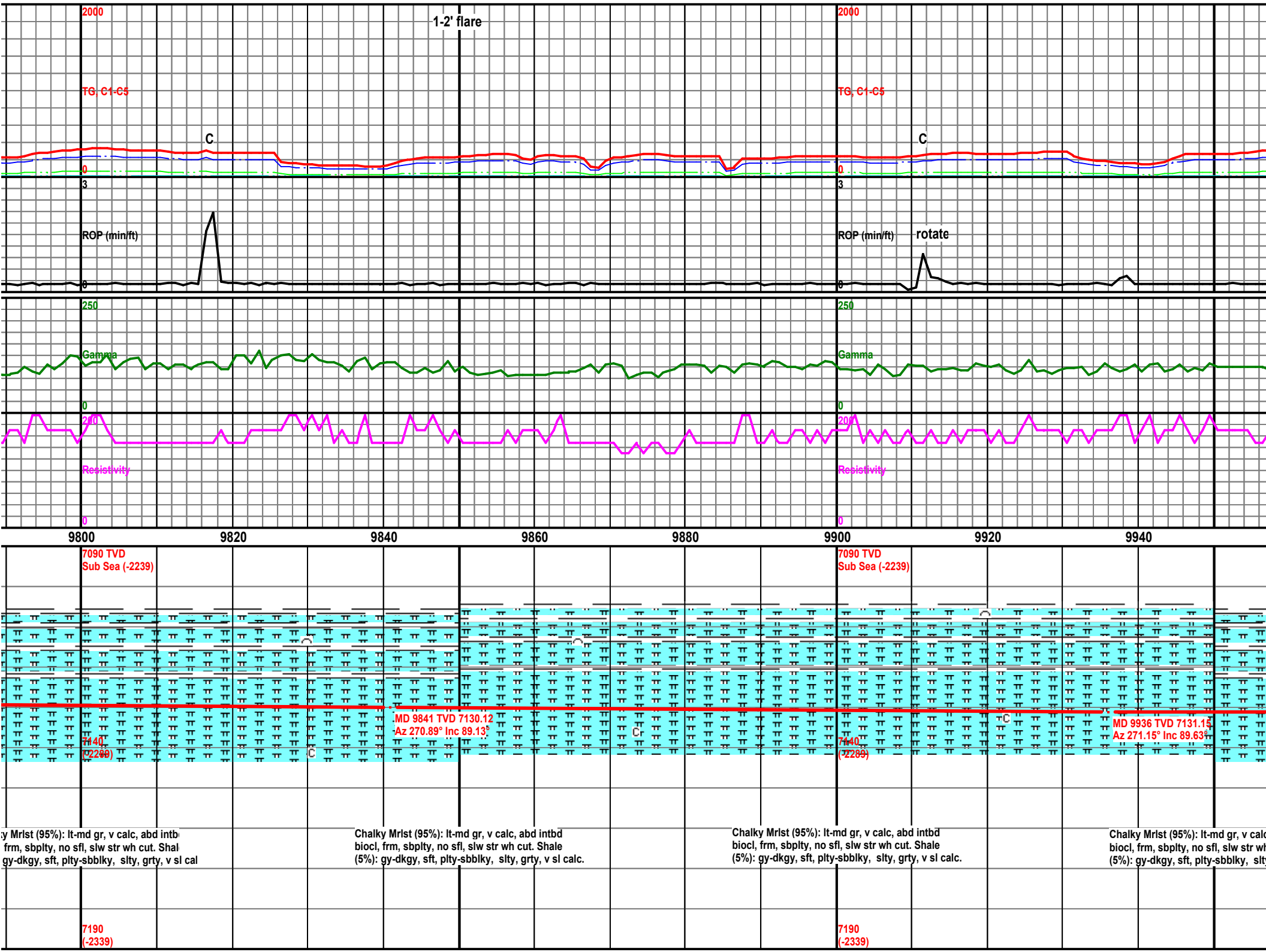

2000
TG, C1-C5
0
C
3
ROP (min/ft)
0
slide
rotate
250
Gamma
0
200
Resistivity
0
8960
8980
9000
9020
9040
9060
9080
9100
1-4' flare
7090 TVD
Sub Sea (-2239)
MD 8990 TVD 7122.32
Az 269.86° Inc 91.3°
MD 9084 TVD 7121.85
Az 268.3° Inc 89.26°
7140
(-2289)
7190
(-2339)
Chalky Mrlst (85%): lt-md gr, v calc, abd intbd biocl, frm, sbplty, no sfl, slw str wh cut. Shale (15%): gy-dkgy, sft, plty-sbblky, slty, grty, v sl calc.
Chalky Mrlst (80%): lt-md gr, v calc, abd intbd biocl, frm, sbplty, no sfl, slw str wh cut. Shale (20%): gy-dkgy, sft, plty-sbblky, slty, grty, v sl calc.

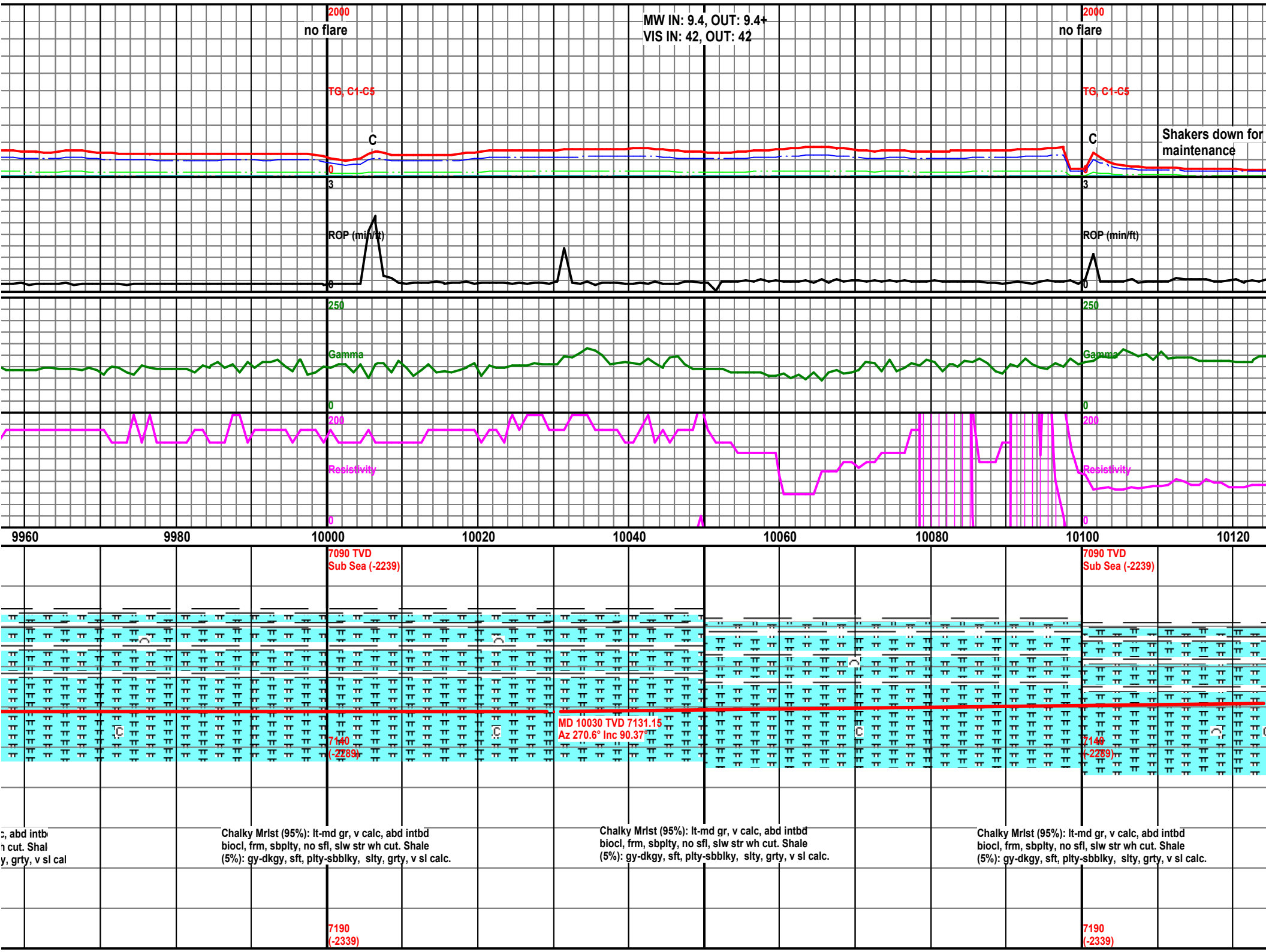

MW: 9.3+, VIS: 36
TOOH for motor @ 7:00 PM 08/27/13
B.O.B. @ 7:20 AM 8/28/13
TG = 6610 U ON Buster
MW: 9.3+, VIS: 40
C
TG, C1-C5
0
C
3
slide
ROP (min/ft)
0
slide
rotate
250
Gamma
0
200
Resistivity
0
120
9140
9160
9180
9200
9220
9240
9260
9280
7090 TVD
Sub Sea (-2239)
MD 9179 TVD 7123.24
Az 268.09° Inc 89.07°
7140
(-2289)
MD 9273 TVD 7124.51
Az 267.94° Inc 89.38°
Chalky Mrlst (80%): lt-md gr, v calc, abd intbd biocl, frm, sbplty, no sfl, slw str wh cut. Shale (20%): gy-dkgy, sft, plty-sbblky, slty, grty, v sl calc.
Chalky Mrlst (85%): lt-md gr, v calc, abd intbd biocl, frm, sbplty, no sfl, slw str wh cut. Shale (15%): gy-dkgy, sft, plty-sbblky, slty, grty, v sl calc.
SS (45%): lt-m gy-lt f gr, sil cem, m-w srtd, ang-subang, occ glauc, spty dul yel fluor, no sh. Chalky Mrlst (35%): lt-md gr, v calc, abd intbd biocl, frm, sbplty, no sfl, slw str wh cut. Shale (20%): gy-dkgy, sft, plty-sbblky, slty, grty, v sl calc.
7190
(-2339)

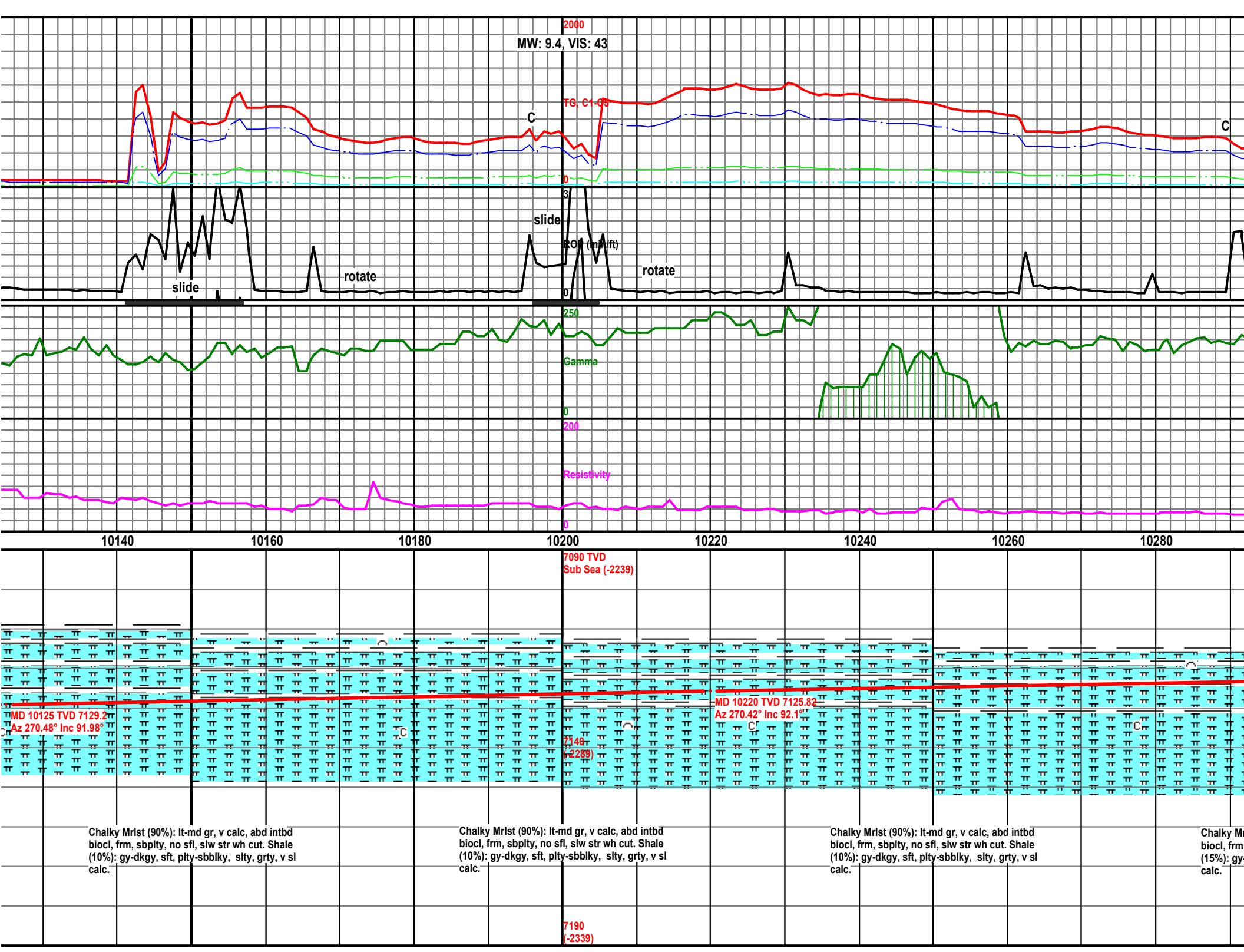

2000
TG, C1-C5
C
0
3
ROP (min/ft)
0
1'-3' flare
TG, C1-C5
C
0
3
ROP (min/ft)
slide
0
250
Gamma
0
200
Resistivity
0
250
Gamma
0
200
Resistivity
0
9300
9320
9340
9360
9380
9400
9420
9440
7090 TVD
Sub Sea (-2239)
7140
(-2289)
MD 9368 TVD 7125.12
Az 267.75° Inc 89.88°
7090 TVD
Sub Sea (-2239)
7140
(-2289)
Chalky Mrlst (85%): lt-md gr, v calc, abd intb
biocl, frm, sbplty, no sfl, slw str wh cut. Shal
10%): gy-dkgy, sft, plty-sbblky, slty, grty, v s
calc.Tr SS (5%): lt-m gy-lt f gr, sil cem, m-w srt
ng-subang, occ glauc, spty dul yel fluor, no s
Chalky Mrlst (90%): lt-md gr, v calc, abd intbd
biocl, frm, sbplty, no sfl, slw str wh cut. Shale
(10%): gy-dkgy, sft, plty-sbblky, slty, grty, v sl
calc.
Chalky Mrlst (90%): lt-md gr, v calc, abd intbd
biocl, frm, sbplty, no sfl, slw str wh cut. Shale
(10%): gy-dkgy, sft, plty-sbblky, slty, grty, v sl
calc.
Chalky Mrlst (90%): lt-md gr
biocl, frm, sbplty, no sfl, slw
(10%): gy-dkgy, sft, plty-sbb
calc.
7190
(-2339)
7190
(-2339)

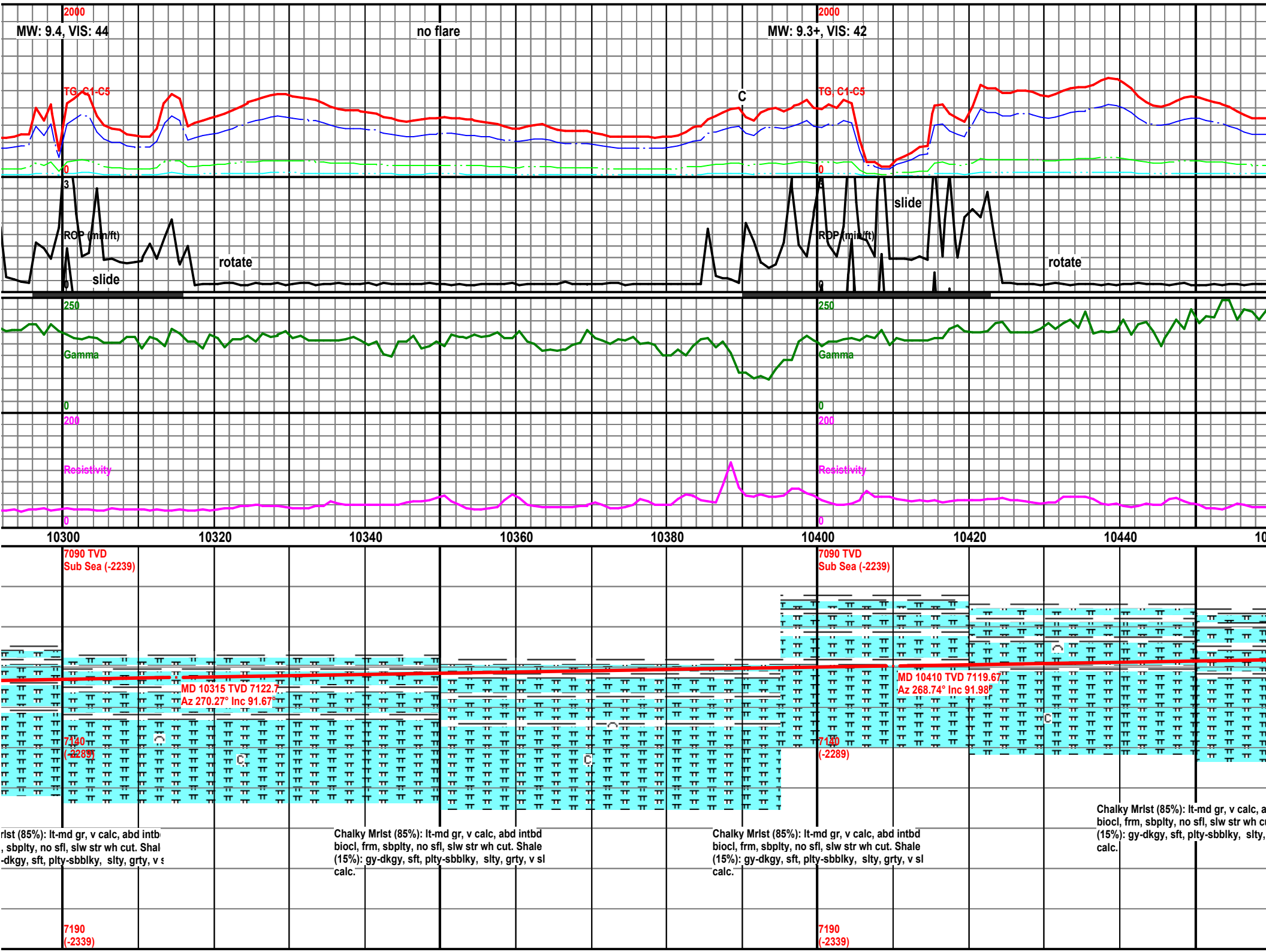

MW IN: 9.3+, OUT: 9.4
VIS IN: 42, OUT: 40
1'-3' flare
TG, C1-C5
2000
C
0
3
ROP (min/ft)
rotate
slide
rotate
250
Gamma
200
Resistivity
9460
9480
9500
9520
9540
9560
9580
9600
9620
7090 TVD
Sub Sea (-2239)
MD 9462 TVD 7125.32
Az 269.05° Inc 89.88°
MD 9557 TVD 7125.98
Az 269.45° Inc 89.32°
7140
(-2289)
Chalky Mrlst (90%): lt-md gr, v calc, abd intbd biocl, frm, sbplty, no sfl, slw str wh cut. Shale (10%): gy-dkgy, sft, plty-sbblky, slty, grty, v sl calc.
7190
(-2339)

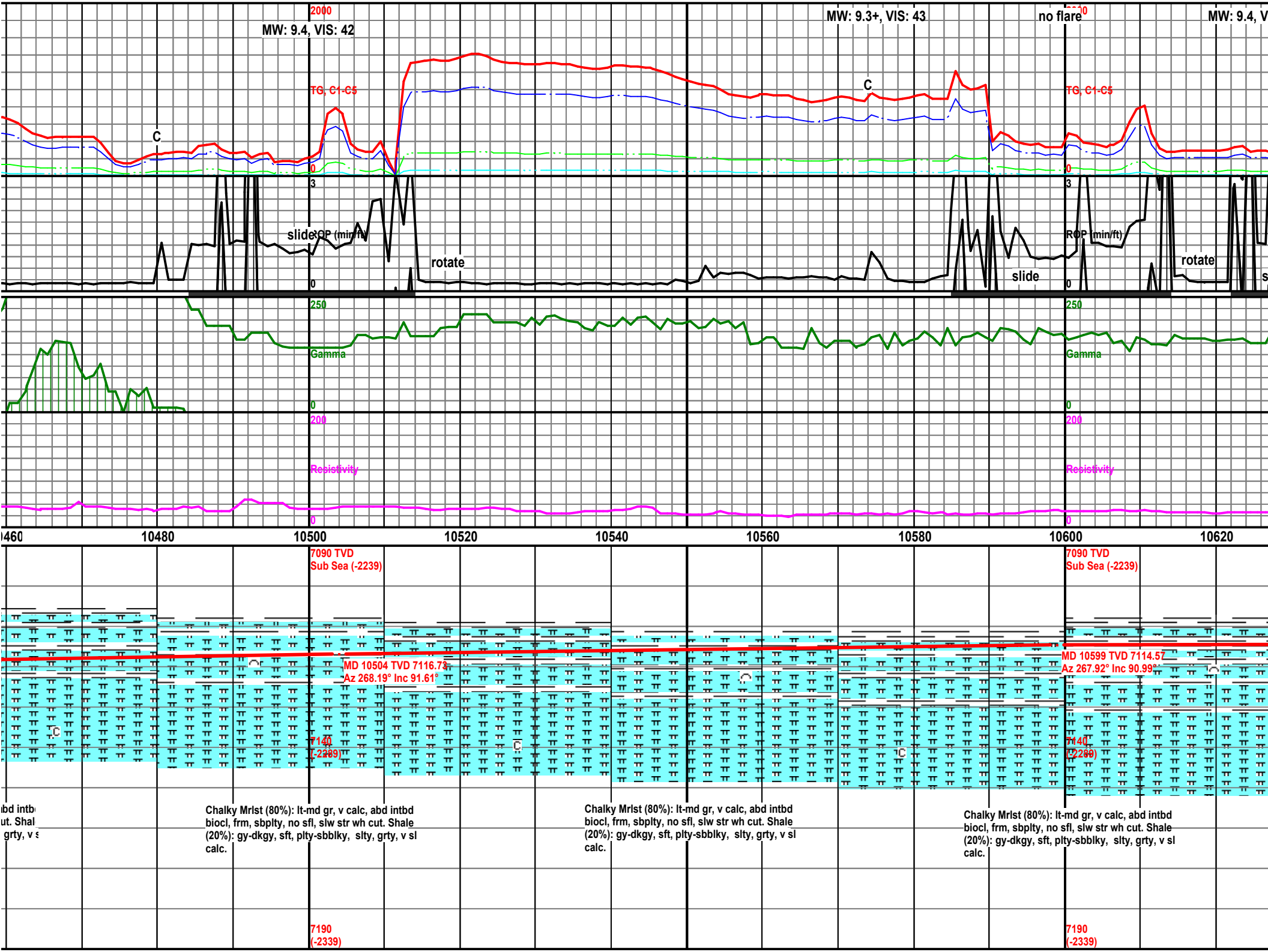

MW IN: 9.3, OUT: 9.4
VIS IN: 45, OUT: 41
1-2' flare
MW IN: 9.3, OUT: 9.4
VIS IN: 42, OUT: 43
2000
TG, C1-C5
0
C
C
3
slide
rotate
ROP (min/ft)
0
250
Gamma
0
200
Resistivity
0
9640
9660
9680
9700
9720
9740
9760
9780
7090 TVD
Sub Sea (-2239)
MD 9651 TVD 7127.3
Az 270.56° Inc 89.07°
MD 9746 TVD 7128.74
Az 270.64° Inc 89.2°
7140
(-2289)
Chalky Mrlst (90%): lt-md gr, v calc, abd intbd biocl, frm, sbplty, no sfl, slw str wh cut. Shale (10%): gy-dkgy, sft, plty-sbblky, slty, grty, v sl calc.
Chalky Mrlst (95%): lt-md gr, v calc, abd intbd biocl, frm, sbplty, no sfl, slw str wh cut. Shale (5%): gy-dkgy, sft, plty-sbblky, slty, grty, v sl calc.
Chalky Mrlst (95%): lt-md gr, v calc, abd intbd biocl, frm, sbplty, no sfl, slw str wh cut. Shale (5%): gy-dkgy, sft, plty-sbblky, slty, grty, v sl calc.
7190
(-2339)

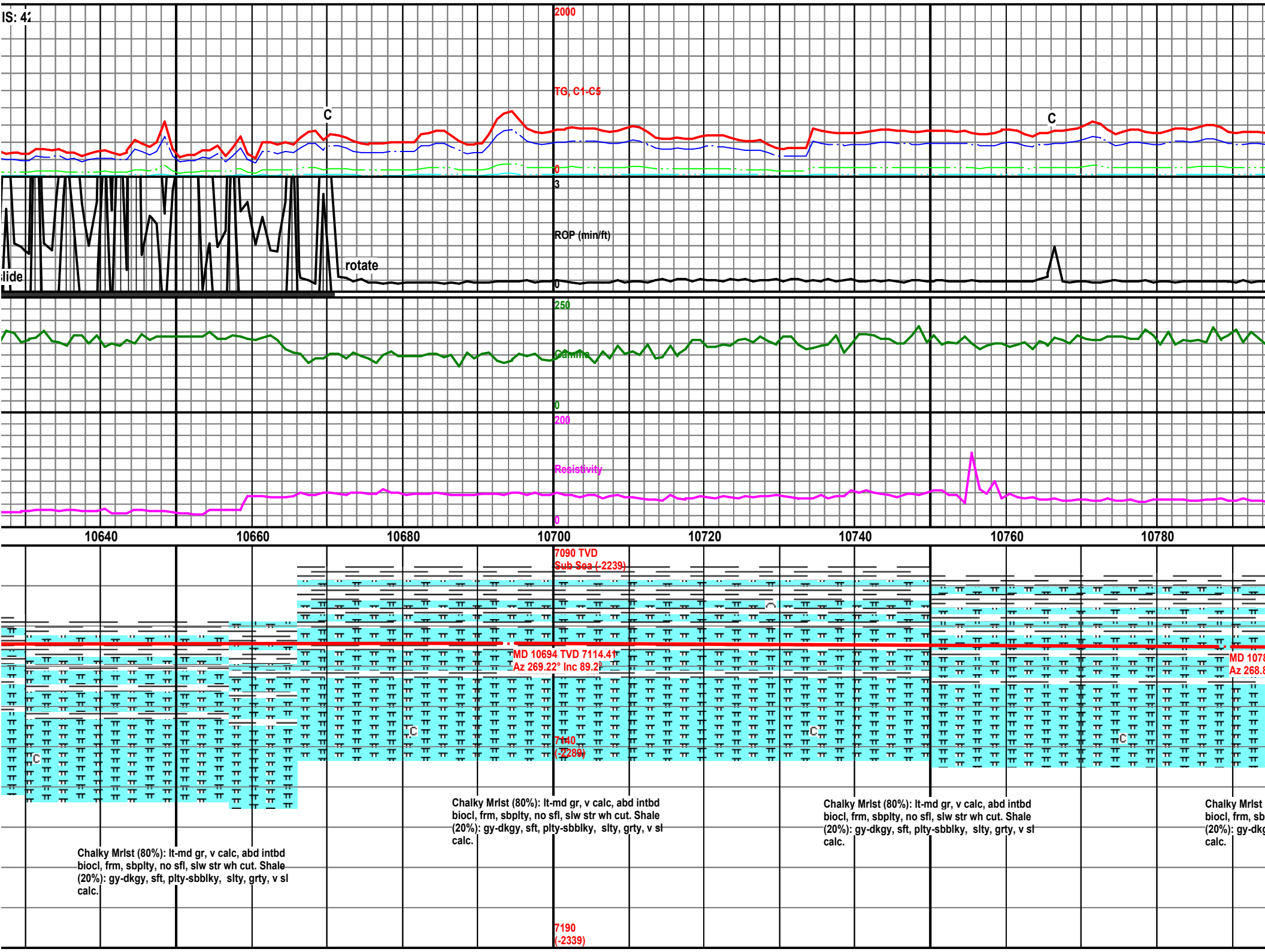

2000
TG, C1-C5
0
3
ROP (min/ft)
0
250
Gamma
0
200
Resistivity
0
1-2' flare
C
rotate
9800
9820
9840
9860
9880
9900
9920
9940
7090 TVD
Sub Sea (-2239)
7140
(-2289)
7190
(-2339)
MD 9841 TVD 7130.12
Az 270.89° Inc 89.13°
MD 9936 TVD 7131.15
Az 271.15° Inc 89.63°
Chalky Mrlst (95%): lt-md gr, v calc, abd intbd biocl, frm, sbplty, no sfl, slw str wh cut. Shale (5%): gy-dkgy, sft, plty-sbblky, slty, grty, v sl calc.

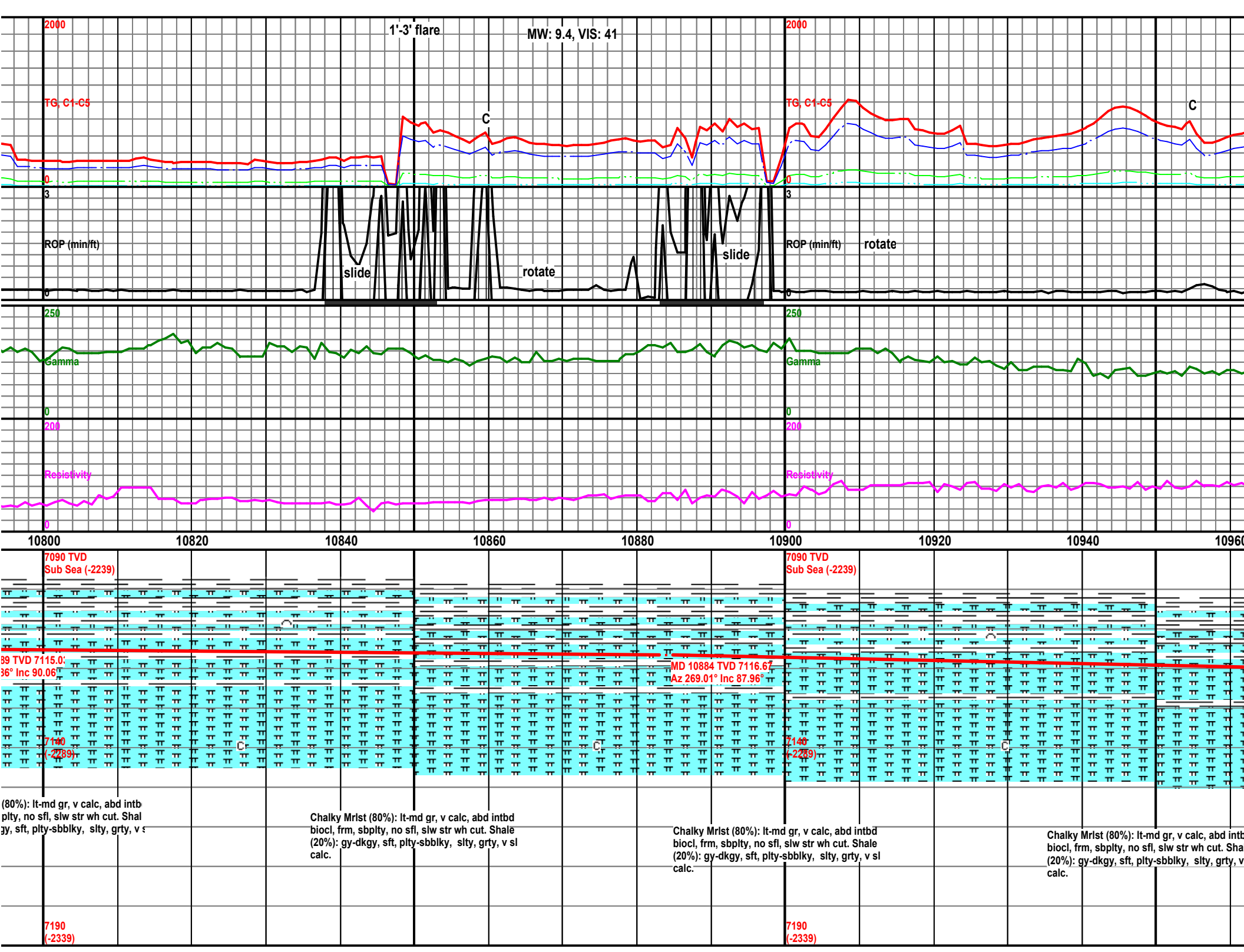

MW IN: 9.4, OUT: 9.4+
VIS IN: 42, OUT: 42
2000
no flare
TG, C1-C5
C
0
3
ROP (min/ft)
0
2000
no flare
TG, C1-C5
C
Shakers down for maintenance
3
ROP (min/ft)
0
250
Gamma
0
200
Resistivity
0
250
Gamma
0
200
Resistivity
0
9960
9980
10000
10020
10040
10060
10080
10100
10120
7090 TVD
Sub Sea (-2239)
7140
(-2289)
7190
(-2339)
MD 10030 TVD 7131.15
Az 270.6° Inc 90.37°
7090 TVD
Sub Sea (-2239)
7140
(-2289)
7190
(-2339)
c, abd intbd
n cut. Shale
y, grty, v sl calc
Chalky Mrlst (95%): lt-md gr, v calc, abd intbd biocl, frm, sbplty, no sfl, slw str wh cut. Shale (5%): gy-dkgy, sft, plty-sbblky, slty, grty, v sl calc.
Chalky Mrlst (95%): lt-md gr, v calc, abd intbd biocl, frm, sbplty, no sfl, slw str wh cut. Shale (5%): gy-dkgy, sft, plty-sbblky, slty, grty, v sl calc.
Chalky Mrlst (95%): lt-md gr, v calc, abd intbd biocl, frm, sbplty, no sfl, slw str wh cut. Shale (5%): gy-dkgy, sft, plty-sbblky, slty, grty, v sl calc.

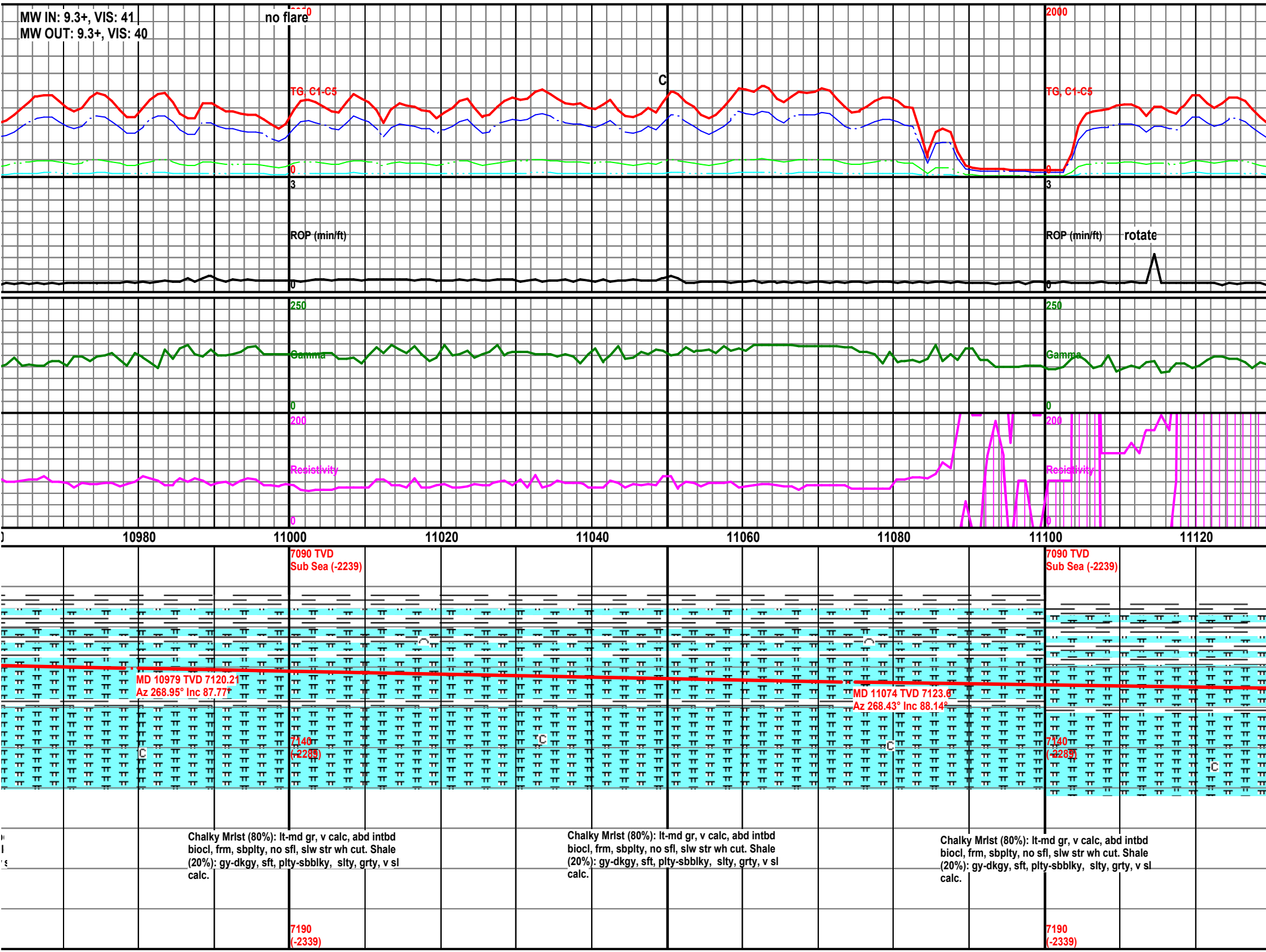

2000
MW: 9.4, VIS: 43
TG, C1-C5
C
C
0
3
slide
slide
ROP (min/ft)
rotate
rotate
0
250
Gamma
0
200
Resistivity
0
10140
10160
10180
10200
10220
10240
10260
10280
7090 TVD
Sub Sea (-2239)
MD 10125 TVD 7129.2
Az 270.48° Inc 91.98°
MD 10220 TVD 7125.82
Az 270.42° Inc 92.1°
7140
(-2289)
Chalky Mrlst (90%): lt-md gr, v calc, abd intbd biocl, frm, sbplty, no sfl, slw str wh cut. Shale (10%): gy-dkgy, sft, plty-sbblky, slty, grty, v sl calc.
Chalky Mrlst (90%): lt-md gr, v calc, abd intbd biocl, frm, sbplty, no sfl, slw str wh cut. Shale (10%): gy-dkgy, sft, plty-sbblky, slty, grty, v sl calc.
Chalky Mrlst (90%): lt-md gr, v calc, abd intbd biocl, frm, sbplty, no sfl, slw str wh cut. Shale (10%): gy-dkgy, sft, plty-sbblky, slty, grty, v sl calc.
7190
(-2339)

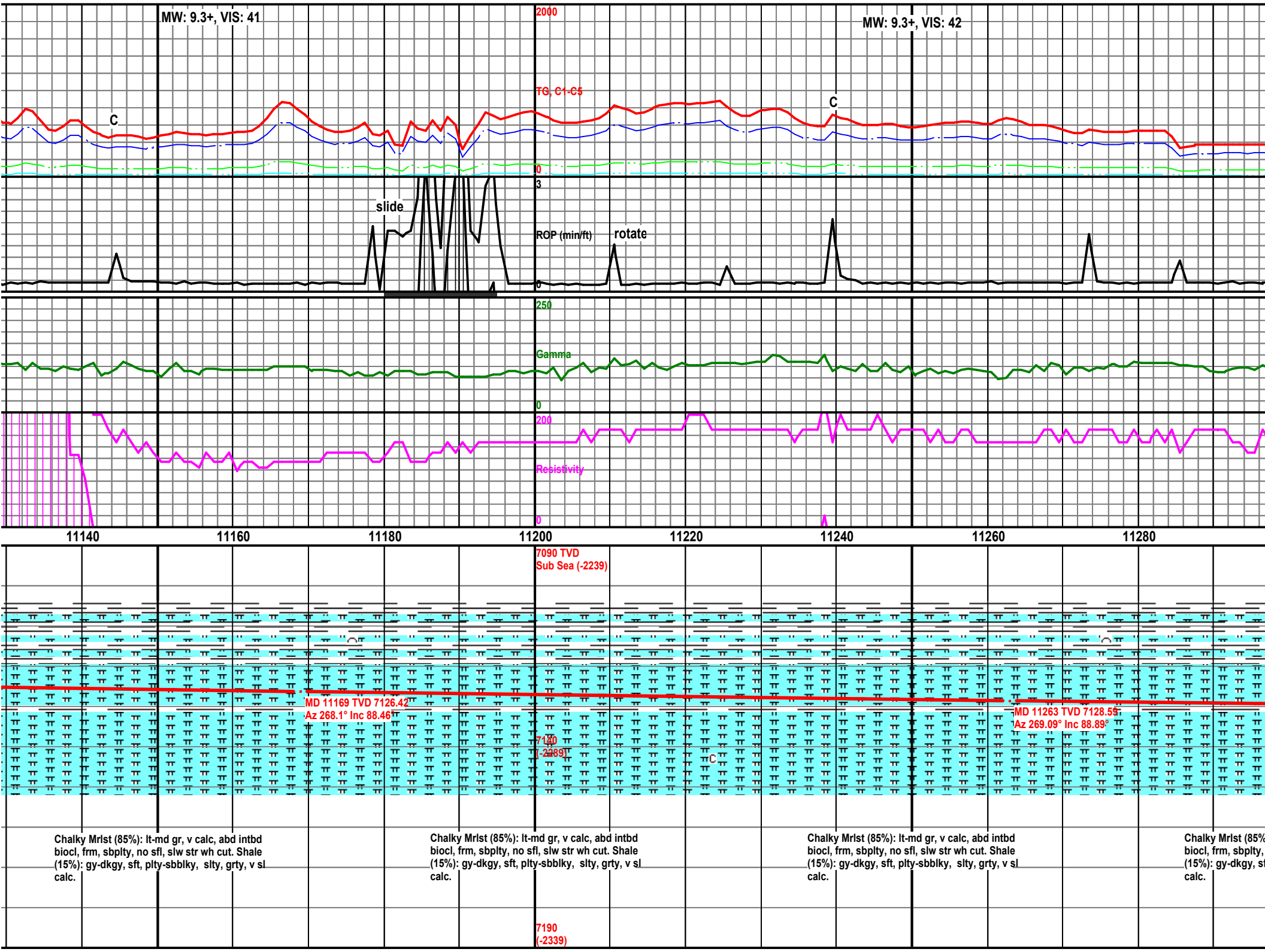

MW: 9.4, VIS: 44
no flare
MW: 9.3+, VIS: 42
2000
TG, C1-C5
0
3
ROP (min/ft)
0
slide
rotate
250
Gamma
0
200
Resistivity
0
10300
10320
10340
10360
10380
10400
10420
10440
7090 TVD
Sub Sea (-2239)
MD 10315 TVD 7122.7
Az 270.27° Inc 91.67°
7140
(-2289)
MD 10410 TVD 7119.67
Az 268.74° Inc 91.98°
Chalky Mrlst (85%): lt-md gr, v calc, abd intbd
biocl, frm, sbplty, no sfl, slw str wh cut. Shale
(15%): gy-dkgy, sft, plty-sbblky, slty, grty, v sl
calc.
7190
(-2339)

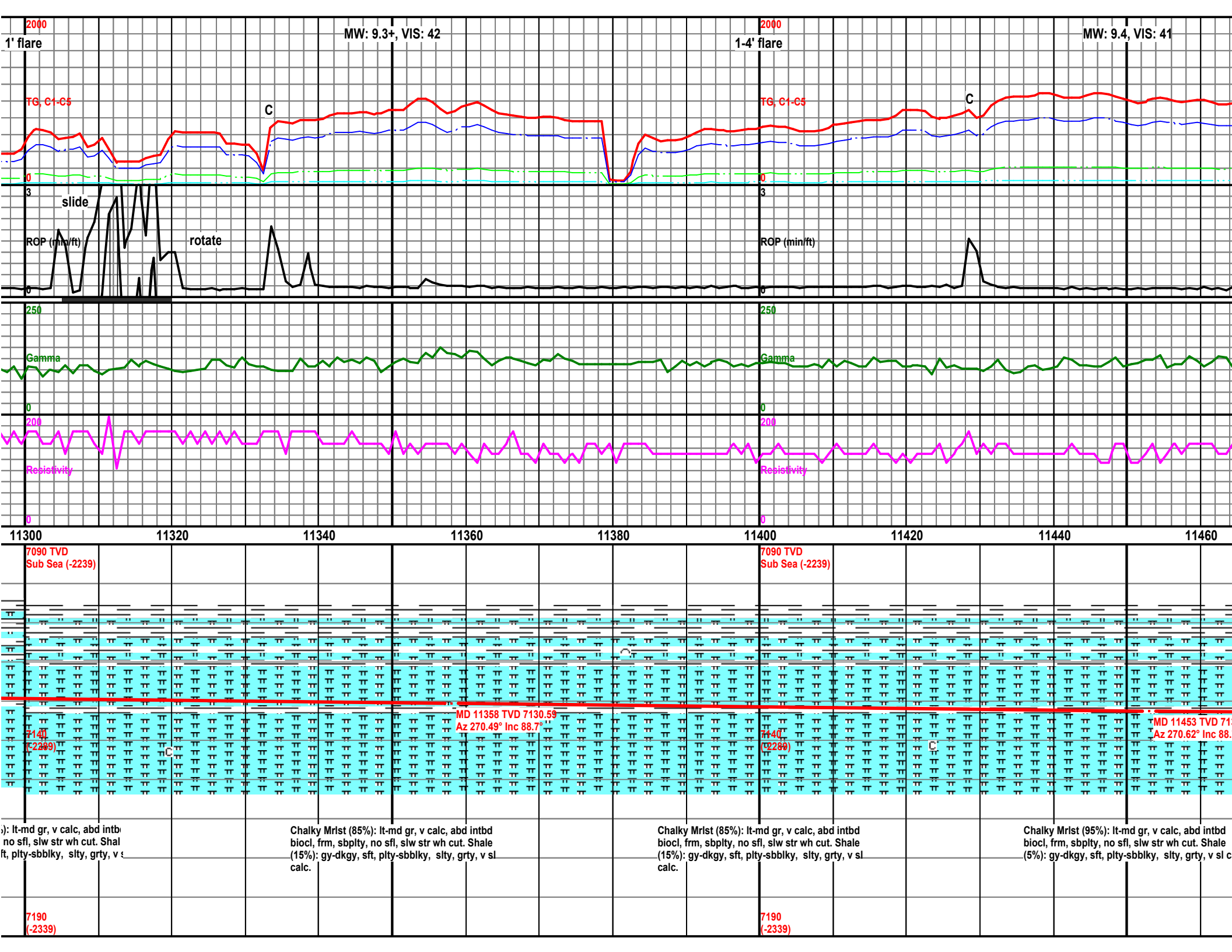

MW: 9.4, VIS: 42
MW: 9.3+, VIS: 43
no flare
MW: 9.4, V
2000
TG, C1-C5
0
C
3
slide
ROP (min/ft)
rotate
0
250
Gamma
0
200
Resistivity
0
10460
10480
10500
10520
10540
10560
10580
10600
10620
7090 TVD
Sub Sea (-2239)
MD 10504 TVD 7116.73
Az 268.19° Inc 91.61°
MD 10599 TVD 7114.57
Az 267.92° Inc 90.99°
7140
(-2289)
7190
(-2339)
Chalky Mrlst (80%): lt-md gr, v calc, abd intbd biocl, frm, sbplty, no sfl, slw str wh cut. Shale (20%): gy-dkgy, sft, plty-sbblky, slty, grty, v sl calc.

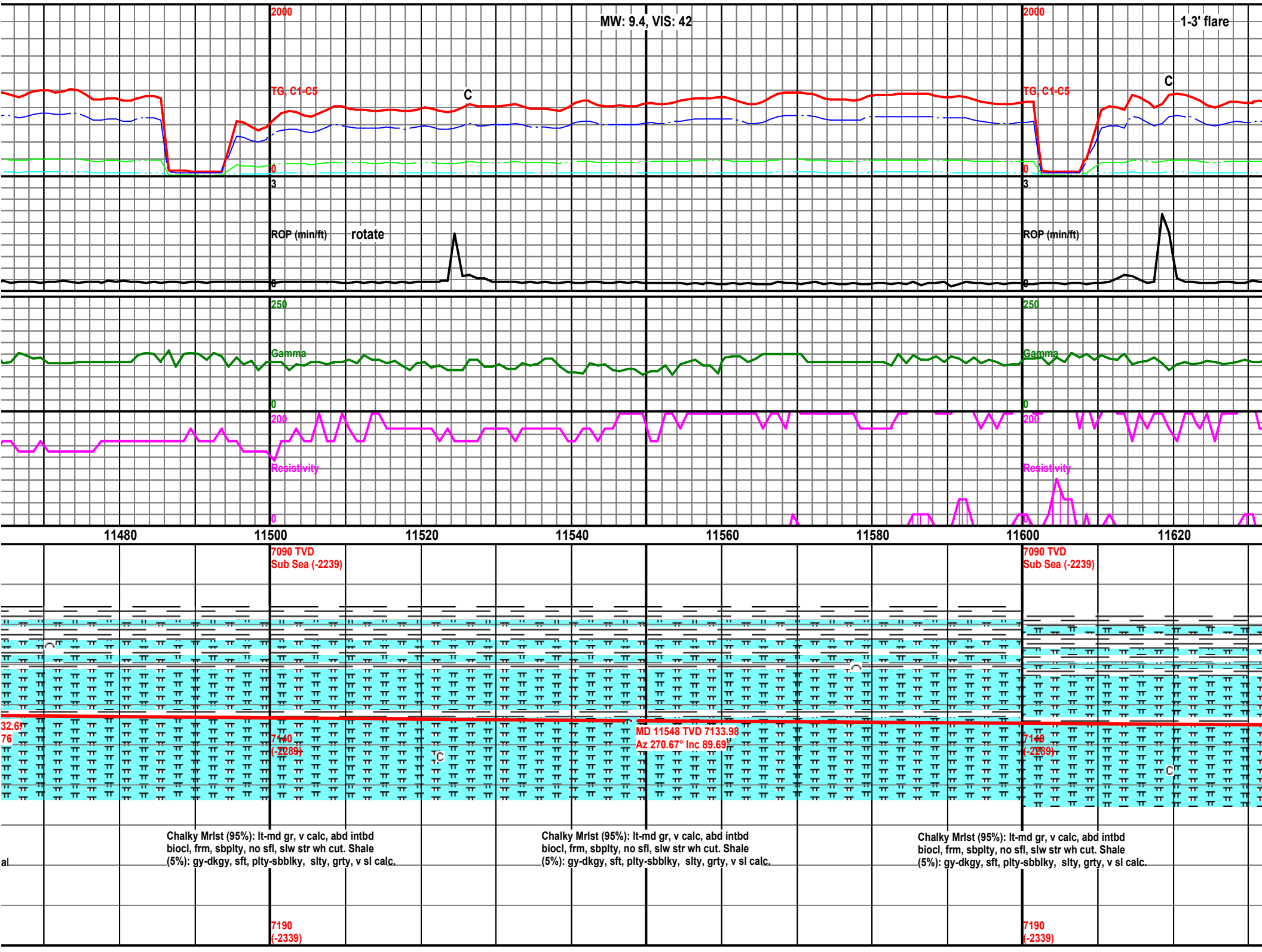

IS: 42
2000
TG, C1-C5
C
C
0
3
ROP (min/ft)
rotate
lide
0
250
Gamma
0
200
Resistivity
0
10640
10660
10680
10700
10720
10740
10760
10780
7090 TVD
Sub Sea (-2239)
MD 10694 TVD 7114.41'
Az 269.22° Inc 89.2°
MD 1078
Az 268.8
7140
(-2289)
7190
(-2339)
Chalky Mrlst (80%): lt-md gr, v calc, abd intbd biocl, frm, sbplty, no sfl, slw str wh cut. Shale (20%): gy-dkgy, sft, plty-sbblky, slty, grty, v sl calc.
Chalky Mrlst (80%): lt-md gr, v calc, abd intbd biocl, frm, sbplty, no sfl, slw str wh cut. Shale (20%): gy-dkgy, sft, plty-sbblky, slty, grty, v sl calc.
Chalky Mrlst (80%): lt-md gr, v calc, abd intbd biocl, frm, sbplty, no sfl, slw str wh cut. Shale (20%): gy-dkgy, sft, plty-sbblky, slty, grty, v sl calc.
Chalky Mrlst
biocl, frm, sb
(20%): gy-dkg
calc.

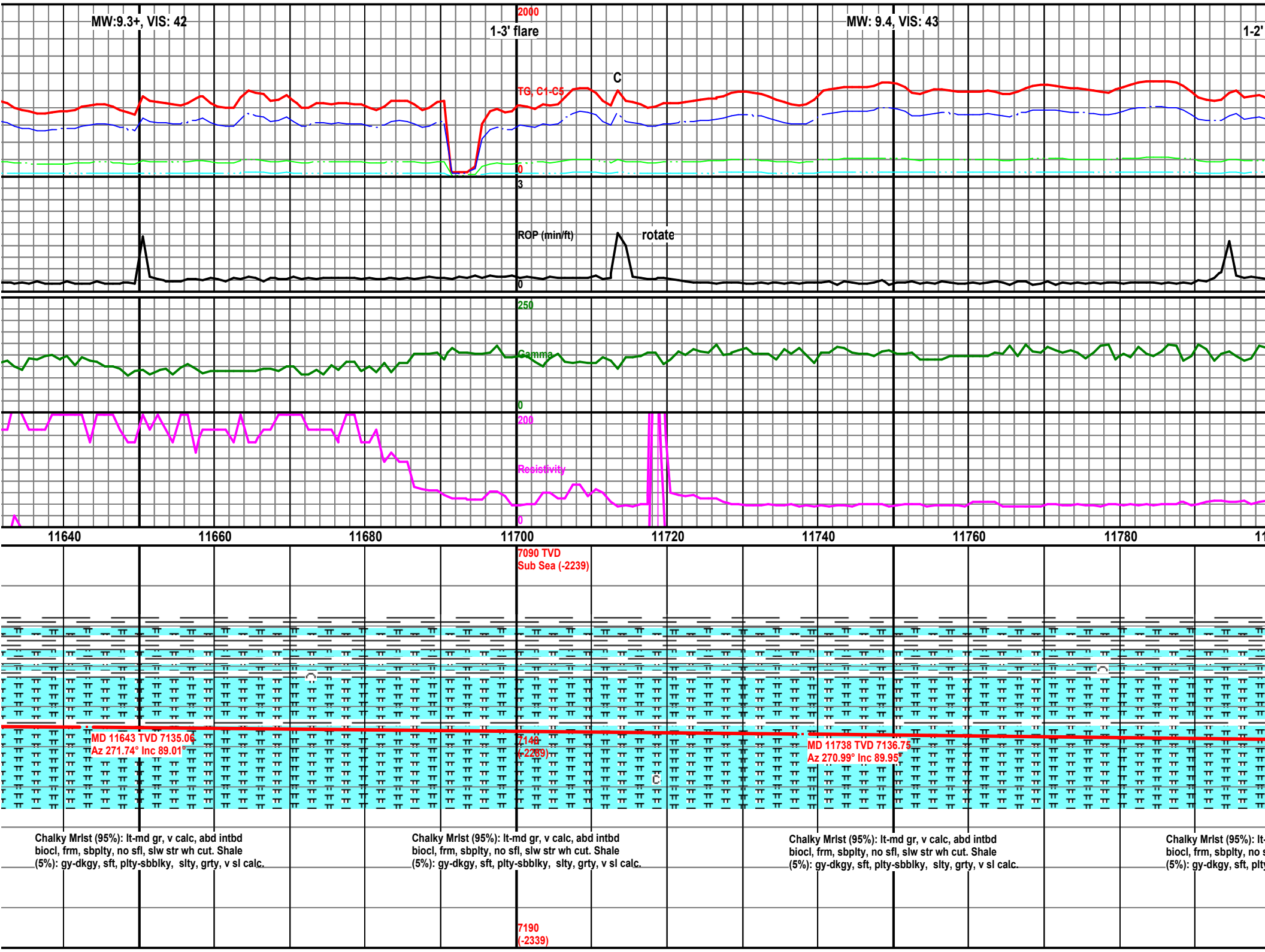

1'-3' flare
MW: 9.4, VIS: 41
2000
TG, C1-C5
C
0
3
ROP (min/ft)
slide
rotate
slide
rotate
250
Gamma
0
200
Resistivity
0
10800
10820
10840
10860
10880
10900
10920
10940
7090 TVD
Sub Sea (-2239)
MD 10884 TVD 7116.67
Az 269.01° Inc 87.96°
7140
(-2289)
7190
(-2339)
Chalky Mrlst (80%): lt-md gr, v calc, abd intbd
biocl, frm, sbplty, no sfl, slw str wh cut. Shale
(20%): gy-dkgy, sft, plty-sbblky, slty, grty, v sl
calc.

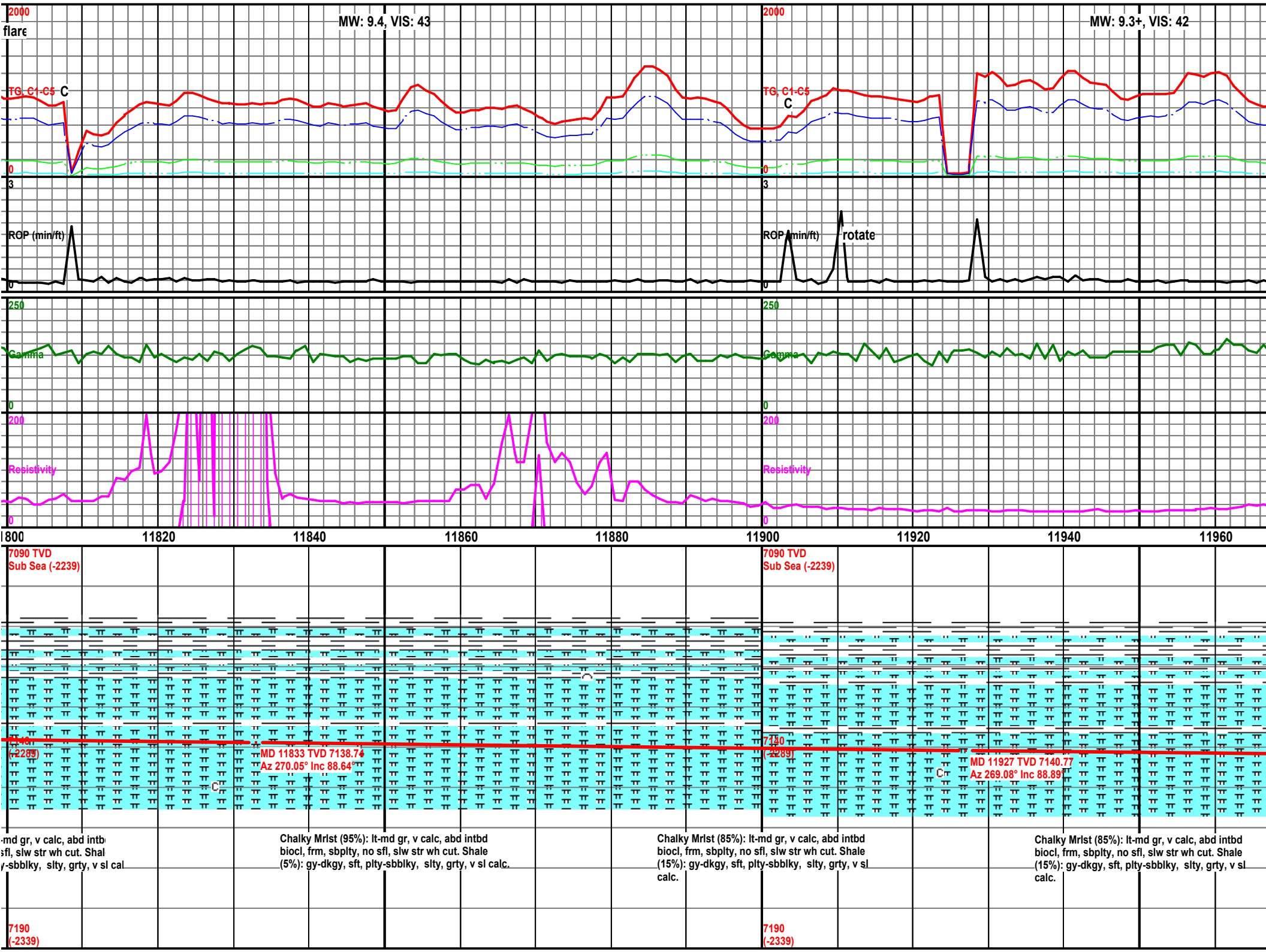

MW IN: 9.3+, VIS: 41
MW OUT: 9.3+, VIS: 40
no flare
TG, C1-C5
ROP (min/ft)
rotate
Gamma
Resistivity
10980
11000
11020
11040
11060
11080
11100
11120
7090 TVD
Sub Sea (-2239)
MD 10979 TVD 7120.21
Az 268.95° Inc 87.77°
MD 11074 TVD 7123.6
Az 268.43° Inc 88.14°
7140
(-2289)
7190
(-2339)
Chalky Mrlst (80%): lt-md gr, v calc, abd intbd biocl, frm, sbplty, no sfl, slw str wh cut. Shale (20%): gy-dkgy, sft, plty-sbblky, slty, grty, v sl calc.

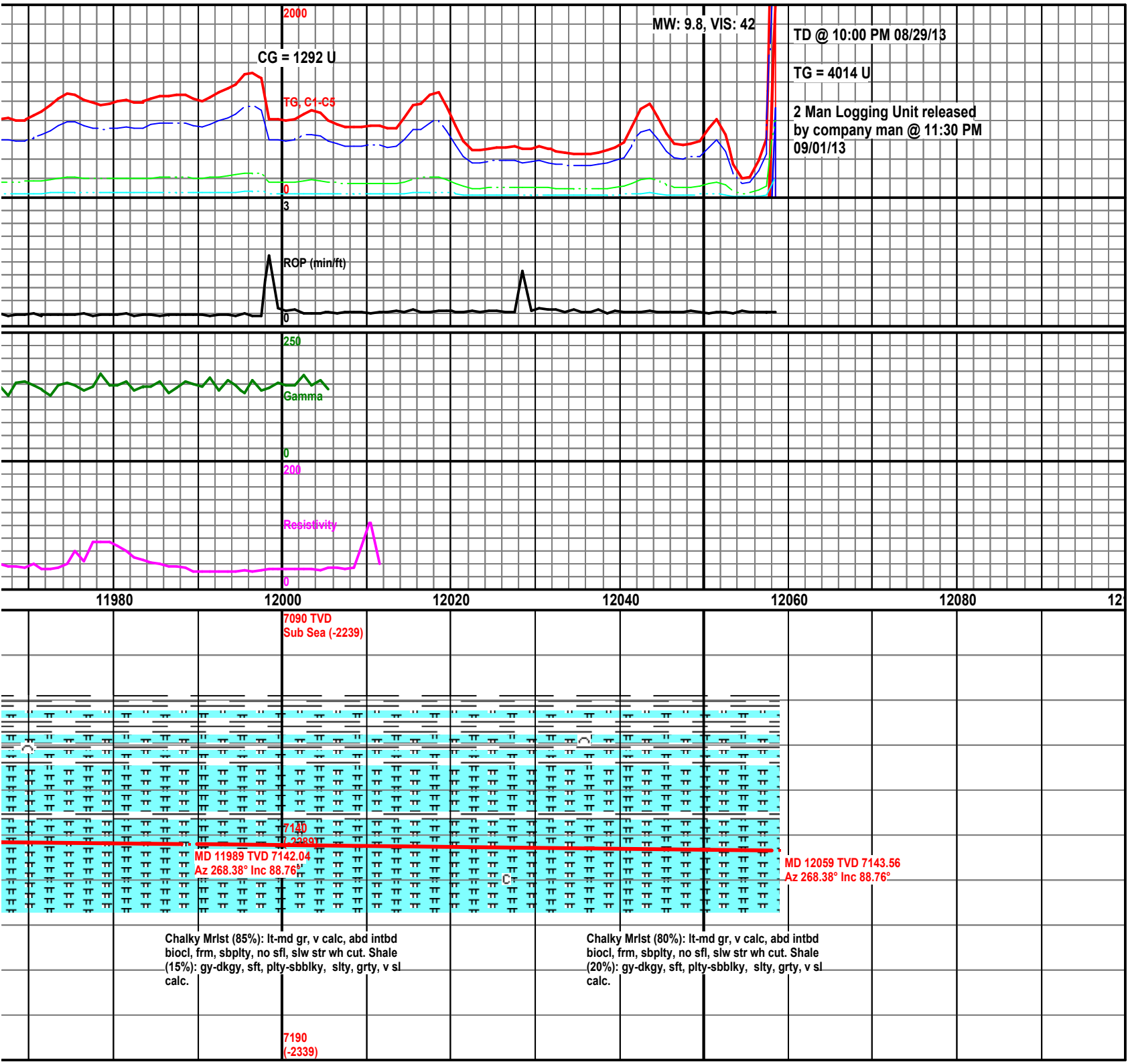

MW: 9.3+, VIS: 41
MW: 9.3+, VIS: 42
2000
TG, C1-C5
0
C
C
3
slide
ROP (min/ft)
rotate
0
250
Gamma
0
200
Resistivity
0
11140
11160
11180
11200
11220
11240
11260
11280
7090 TVD
Sub Sea (-2239)
MD 11169 TVD 7126.42
Az 268.1° Inc 88.46°
MD 11263 TVD 7128.55
Az 269.09° Inc 88.89°
7140
(-2289)
7190
(-2339)
Chalky Mrlst (85%): lt-md gr, v calc, abd intbd biocl, frm, sbplty, no sfl, slw str wh cut. Shale (15%): gy-dkgy, sft, plty-sbblky, slty, grty, v sl calc.
Chalky Mrlst (85%): lt-md gr, v calc, abd intbd biocl, frm, sbplty, no sfl, slw str wh cut. Shale (15%): gy-dkgy, sft, plty-sbblky, slty, grty, v sl calc.
Chalky Mrlst (85%): lt-md gr, v calc, abd intbd biocl, frm, sbplty, no sfl, slw str wh cut. Shale (15%): gy-dkgy, sft, plty-sbblky, slty, grty, v sl calc.
Chalky Mrlst (85%)
biocl, frm, sbplty,
(15%): gy-dkgy, sl
calc.


2000
1' flare
MW: 9.3+, VIS: 42
TG, C1-C5
C
0
3
slide
ROP (min/ft)
rotate
0
250
Gamma
0
200
Resistivity
0
2000
1-4' flare
MW: 9.4, VIS: 41
TG, C1-C5
C
0
3
ROP (min/ft)
0
250
Gamma
0
200
Resistivity
0
11300
11320
11340
11360
11380
11400
11420
11440
11460
7090 TVD
Sub Sea (-2239)
7140
(-2289)
C
MD 11358 TVD 7130.59
Az 270.49° Inc 88.7°
7190
(-2339)
): lt-md gr, v calc, abd intb
no sfl, slw str wh cut. Shal
ft, plty-sbblky, slty, grty, v s
Chalky Mrlst (85%): lt-md gr, v calc, abd intbd
biocl, frm, sbplty, no sfl, slw str wh cut. Shale
(15%): gy-dkgy, sft, plty-sbblky, slty, grty, v sl
calc.
7090 TVD
Sub Sea (-2239)
7140
(-2289)
C
7190
(-2339)
Chalky Mrlst (85%): lt-md gr, v calc, abd intbd
biocl, frm, sbplty, no sfl, slw str wh cut. Shale
(15%): gy-dkgy, sft, plty-sbblky, slty, grty, v sl
calc.
MD 11453 TVD 71
Az 270.62° Inc 88.
Chalky Mrlst (95%): lt-md gr, v calc, abd intbd
biocl, frm, sbplty, no sfl, slw str wh cut. Shale
(5%): gy-dkgy, sft, plty-sbblky, slty, grty, v sl c


MW: 9.4, VIS: 42
1-3' flare
2000
TG, C1-C5
C
0
3
ROP (min/ft)
rotate
0
250
Gamma
0
200
Resistivity
0
11480
11500
11520
11540
11560
11580
11600
11620
7090 TVD
Sub Sea (-2239)
32.6
76
7140
(-2289)
MD 11548 TVD 7133.98
Az 270.67° Inc 89.69°
Chalky Mrlst (95%): lt-md gr, v calc, abd intbd biocl, frm, sbplty, no sfl, slw str wh cut. Shale (5%): gy-dkgy, sft, plty-sbblky, slty, grty, v sl calc.
7190
(-2339)


MW:9.3+, VIS: 42
2000
1-3' flare
MW: 9.4, VIS: 43
1-2'
C
TG, C1-C5
0
3
ROP (min/ft)
rotate
0
250
Gamma
0
200
Resistivity
0
11640
11660
11680
11700
11720
11740
11760
11780
7090 TVD
Sub Sea (-2239)
MD 11643 TVD 7135.06
Az 271.74° Inc 89.01°
7140
(-2239)
MD 11738 TVD 7136.75
Az 270.99° Inc 89.95°
Chalky Mrlst (95%): lt-md gr, v calc, abd intbd biocl, frm, sbplty, no sfl, slw str wh cut. Shale (5%): gy-dkgy, sft, plty-sbblky, slty, grty, v sl calc.
Chalky Mrlst (95%): lt-md gr, v calc, abd intbd biocl, frm, sbplty, no sfl, slw str wh cut. Shale (5%): gy-dkgy, sft, plty-sbblky, slty, grty, v sl calc.
Chalky Mrlst (95%): lt-md gr, v calc, abd intbd biocl, frm, sbplty, no sfl, slw str wh cut. Shale (5%): gy-dkgy, sft, plty-sbblky, slty, grty, v sl calc.
7190
(-2339)


2000
flare
MW: 9.4, VIS: 43
TG, C1-C5
C
0
3
ROP (min/ft)
0
250
Gamma
0
200
Resistivity
0
2000
MW: 9.3+, VIS: 42
TG, C1-C5
C
0
3
ROP (min/ft)
rotate
0
250
Gamma
0
200
Resistivity
0
800
11820
11840
11860
11880
11900
11920
11940
11960
7090 TVD
Sub Sea (-2239)
7140
(-2289)
MD 11833 TVD 7138.74
Az 270.05° Inc 88.64°
MD 11927 TVD 7140.77
Az 269.08° Inc 88.89°
Chalky Mrlst (95%): lt-md gr, v calc, abd intbd biocl, frm, sbplty, no sfl, slw str wh cut. Shale (5%): gy-dkgy, sft, plty-sbblky, slty, grty, v sl calc.
Chalky Mrlst (85%): lt-md gr, v calc, abd intbd biocl, frm, sbplty, no sfl, slw str wh cut. Shale (15%): gy-dkgy, sft, plty-sbblky, slty, grty, v sl calc.
Chalky Mrlst (85%): lt-md gr, v calc, abd intbd biocl, frm, sbplty, no sfl, slw str wh cut. Shale (15%): gy-dkgy, sft, plty-sbblky, slty, grty, v sl calc.
7190
(-2339)


2000
CG = 1292 U
TG, C1-C5
0
3
ROP (min/ft)
0
MW: 9.8, VIS: 42
TD @ 10:00 PM 08/29/13
TG = 4014 U
2 Man Logging Unit released by company man @ 11:30 PM 09/01/13
250
Gamma
0
200
Resistivity
0
11980
12000
12020
12040
12060
12080
12
7090 TVD
Sub Sea (-2239)
7140
MD 11989 TVD 7142.04
Az 268.38° Inc 88.76°
MD 12059 TVD 7143.56
Az 268.38° Inc 88.76°
Chalky Mrlst (85%): lt-md gr, v calc, abd intbd biocl, frm, sbplty, no sfl, slw str wh cut. Shale (15%): gy-dkgy, sft, plty-sbblky, slty, grty, v sl calc.
Chalky Mrlst (80%): lt-md gr, v calc, abd intbd biocl, frm, sbplty, no sfl, slw str wh cut. Shale (20%): gy-dkgy, sft, plty-sbblky, slty, grty, v sl calc.
7190
(-2339)