Décollement
Consulting
Inc.

Scale: 5" / 100'
Measured Depth Log

Well Name	Pronghorn K-5-8XRLNB		
Location	NWNE Sec 5 T5N R61W		
State	Colorado	**County**	Weld
Country	USA	**Rig Number**	Cade 22
API Number	05-123-40087-0C	**Field**	DJ. Basin
Spud Date	9/18/2014	**Drilling Completed**	9/29/2014
Surface Coordinates	200 FNL X 2291 FEL		
Ground Elevation	4658'	**K.B. Elevation**	4675'
Logged Interval	5600'	**Total Depth**	15710'
Formation	Niobrara "B"		
Type of Drilling Fluid	WBM		

Operator

Company Bonanza Creek Energy

Address 410 17th Street, Suite 1500
Denver, CO 80202

Geologist

Name Leo Carrasco/Chris Irwin

Company Decollement Consulting Inc.

Address 13300 Braun Road
Golden, CO 80401

Zone Color Coding

- Oil
- Note
- Error
- Condensate
- Core
- Water
- Gas
- Pressure
- Seal

Rock Types

- UNKNOWN
- ANHYDRITE
- GYPSUM
- SALT
- SIDERITE or LIMONITE
- Limestone
- DOLOMITE
- CHERT
- COAL
- MARLSTONE
- CLAYSTONE
- SHALE
- SHALE GRAY
- SHALE COLORED
- SILTSTONE
- SANDSTONE
- CONGLOMERATE
- BRECCIA

- ▨ TILL
- ▨ BENTONITE
- ▨ TUFF
- ▨ IGNEOUS
- ▨ METAMORPHIC
- ▨ Chalk

Accessories

Fossils

- ALGAE
- AMPHIPORA
- BELEMNITE
- BIOCLASTIC
- BRACHIOPOD
- BRYOZOA
- CEPHALOPOD
- CORAL
- CRINOID
- ECHINOID
- FISH
- FORAMINIFERA
- F FOSSIL
- GASTROPOD
- OOLITE
- OSTRACOD
- PELECYPOD
- PELLET
- PISOLITE
- PLANT REMAINS
- PLANT SPORES
- SCAPHOPOD
- STROMATOPOROID

Minerals

- ANHYDRITIC
- ARGILLACEOUS
- ARGILLITE GRAIN
- B BENTONITE
- BITUMENOUS SUBSTANCE
- BRECCIA FRAGMENTS
- ⊥ CALCAREOUS
- ■ CARBONACEOUS FLAKES
- ▲ CHTDK
- △ CHTLT
- — COAL - THIN BEDS
- DOLOMITIC
- \+ FELDSPAR
- ● FERRUGINOUS PELLET
- FERRUGINOUS
- GLAUCONITE
- GYPSIFEROUS
- HEAVY MINERAL
- K KAOLIN
- MARLSTONE
- MINERAL CRYSTALS
- NODULES
- PHOSPHATE PELLETS
- P PYRITE
- ⊞ SALT CAST
- SANDY
- SILICEOUS
- SILTY
- TUFFACEOUS

Stringer

- ▨ ANHYDRITE STRINGER
- ▨ BENTONITE STRINGER
- — COAL STRINGER
- ▨ DOLOMITE STRINGER
- ▨ GYPSUM STRINGER
- ▨ LIMESTONE STRINGER
- MARLSTONE (CALC) STRG
- MARLSTONE (DOL) STRG
- ▨ SANDSTONE STRINGER
- — SHALE STRINGER
- ▨ SILTSTONE STRINGER

Other Symbols

Oil Show

- D DEAD
- ● EVEN
- ○ QUESTIONABLE
- ◐ SPOTTED STAINING

Porosity

- E EARTHY
- FENESTRAL
- F FRACTURE
- × INTERCRYSTALLINE
- INTEROOLITIC
- MOLDIC
- O ORGANIC
- P PINPOINT
- VUGGY

Engineering

- BIT
- ◀ CONNECTION (LEFT)
- ▶ CONNECTION (RIGHT)
- CONNECTION GAS
- CORE - LOST
- ■ CORE - RECOVERED
- DST INTERVAL
- FAULT
- FORMATION TOP
- GAS SHOW
- MNDEPTH MN DEPTH
- NORMAL FAULT
- ● OIL SHOW
- OVERTURNED STRATA
- REVERSE FAULT
- ◀ SIDEWALL CORE (LEFT)
- ▶ SIDEWALL CORE (RIGHT)
- ▨ SLIDE
- DS SURVEY
- TRIP GAS
- ◁ WIRELINE TESTED - LEFT
- ▷ WIRELINE TESTED - RT

Rounding

- A ANGULAR
- R ROUNDED
- a SUBANG
- r SUBRND

Textures

- BS BOUNDSTONE
- C CHALKY
- CX CRYPTOXLN
- E EARTHY
- FX FINELYXLN
- GS GRAINSTONE
- L LITHOGRAPHIC
- MX MICROXLN
- MS MUDSTONE
- PS PACKSTONE
- WS WACKESTONE

Sorting

- M MODERATE
- P POOR
- W WELL

Chalk

CMT

Decollement on location 09/20/2014
Start logging @ 5600'

Bit #: 3
Type: HEO4JMRSV
Size: 8 3/4
Depth In: 5,581 '
S/N: 1395279

WOB 30
RPM 0/0
SPP 2953
SPM 95/91

MD: 5,608 '
TVD: 5,562.83 '
Inclination: 2.25 °
Azimuth: 150.79 °

90% SH: lt-m gy, blky-sbblky, plty ip,sft-mod frm, sl calc ip, v slty, v sndy.

10% SS: lt-m gy, off wh ip, fri-w cons, vf (u)-f (l), sbang-sbrnd, mod srt, sl calc, arg ip, no flor/no cut.

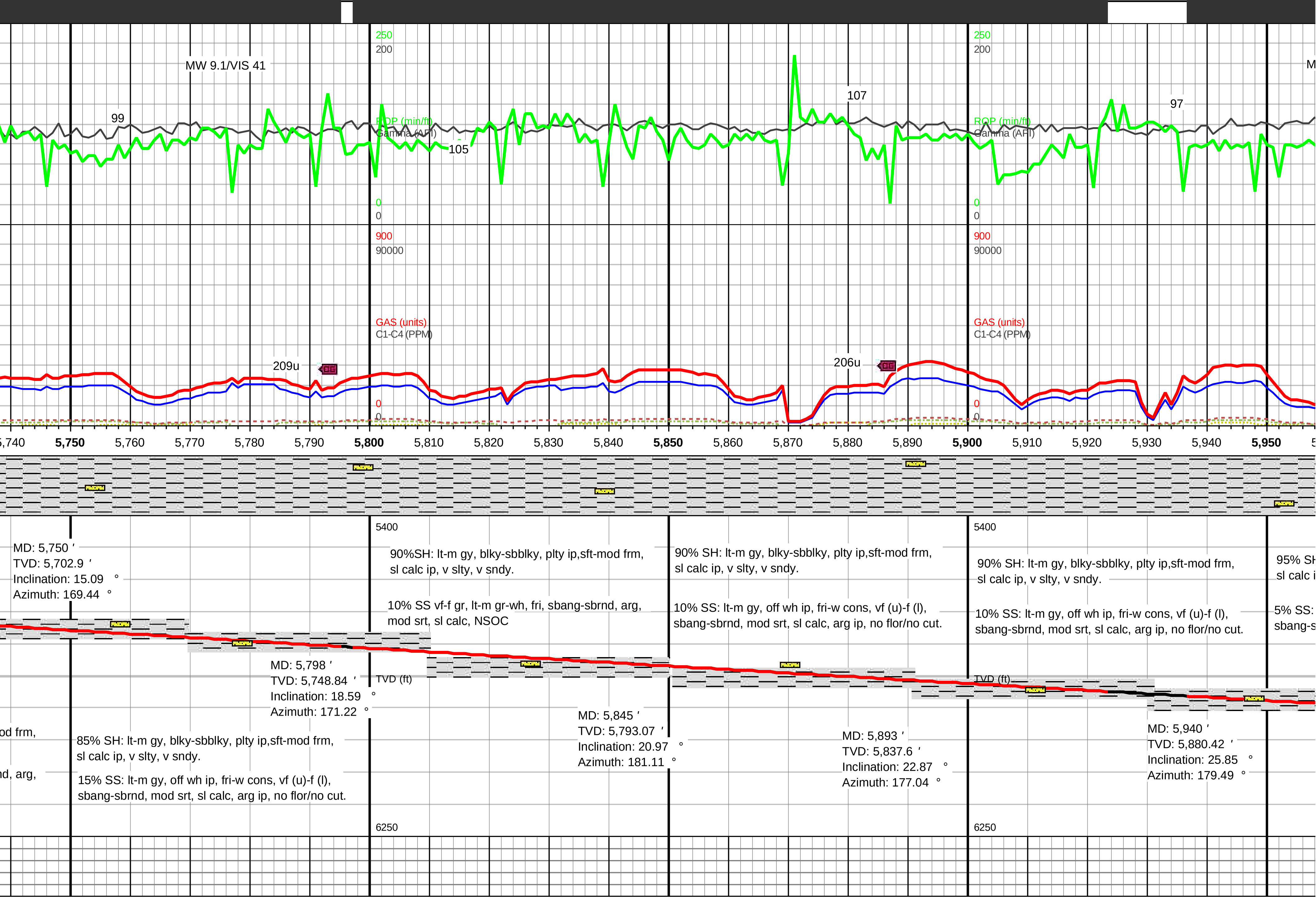
85% SH: lt-m gy, blky-sbblky, plty ip,sft-mod frm, sl calc ip, v slty, v sndy.

15% SS: lt-m gy, off wh ip, fri-w cons, vf (u)-f (l), sbang-sbrnd, mod srt, sl calc, arg ip, no flor/no cut.

MD: 5,703 '
TVD: 5,657.14 '
Inclination: 11.22 °
Azimuth: 165.24 °

85% SH: lt-m gy, blky-sbblky, plty ip,sft-m
sl calc ip, v slty, v sndy.

15% SS vf-f gr, lt-m gr-wh, fri, sbang-sbr
mod srt, sl calc, NSOC



od frm,

nd, arg,

MD: 5,750 ′
TVD: 5,702.9 ′
Inclination: 15.09 °
Azimuth: 169.44 °

85% SH: lt-m gy, blky-sbblky, plty ip,sft-mod frm, sl calc ip, v slty, v sndy.

15% SS: lt-m gy, off wh ip, fri-w cons, vf (u)-f (l), sbang-sbrnd, mod srt, sl calc, arg ip, no flor/no cut.

MD: 5,798 ′
TVD: 5,748.84 ′
Inclination: 18.59 °
Azimuth: 171.22 °

90%SH: lt-m gy, blky-sbblky, plty ip,sft-mod frm, sl calc ip, v slty, v sndy.

10% SS vf-f gr, lt-m gr-wh, fri, sbang-sbrnd, arg, mod srt, sl calc, NSOC

MD: 5,845 ′
TVD: 5,793.07 ′
Inclination: 20.97 °
Azimuth: 181.11 °

90% SH: lt-m gy, blky-sbblky, plty ip,sft-mod frm, sl calc ip, v slty, v sndy.

10% SS: lt-m gy, off wh ip, fri-w cons, vf (u)-f (l), sbang-sbrnd, mod srt, sl calc, arg ip, no flor/no cut.

MD: 5,893 ′
TVD: 5,837.6 ′
Inclination: 22.87 °
Azimuth: 177.04 °

90% SH: lt-m gy, blky-sbblky, plty ip,sft-mod frm, sl calc ip, v slty, v sndy.

10% SS: lt-m gy, off wh ip, fri-w cons, vf (u)-f (l), sbang-sbrnd, mod srt, sl calc, arg ip, no flor/no cut.

MD: 5,940 ′
TVD: 5,880.42 ′
Inclination: 25.85 °
Azimuth: 179.49 °

95% SH
sl calc i

5% SS:
sbang-s

H: lt-m gy, blky-sbblky, plty ip,sft-mod frm,
p, v slty, v sndy.

lt-m gy, off wh ip, fri-w cons, vf (u)-f (l),
brnd, mod srt, sl calc, arg ip, no flor/no cut.

100% SH: lt-m gy, blky-sbblky, plty ip,sft-mod frm,
sl calc ip, v slty, v sndy, hvy tr-ss

100% SH: md-dk gy, blky-sbblky, plty ip, sft-frm
sli carb, pale ylw flor, sl wh cut

100% SH: md-dk gy, blky-sbblky, plty ip, sft-frm
sli carb, pale ylw flor, sl wh cut

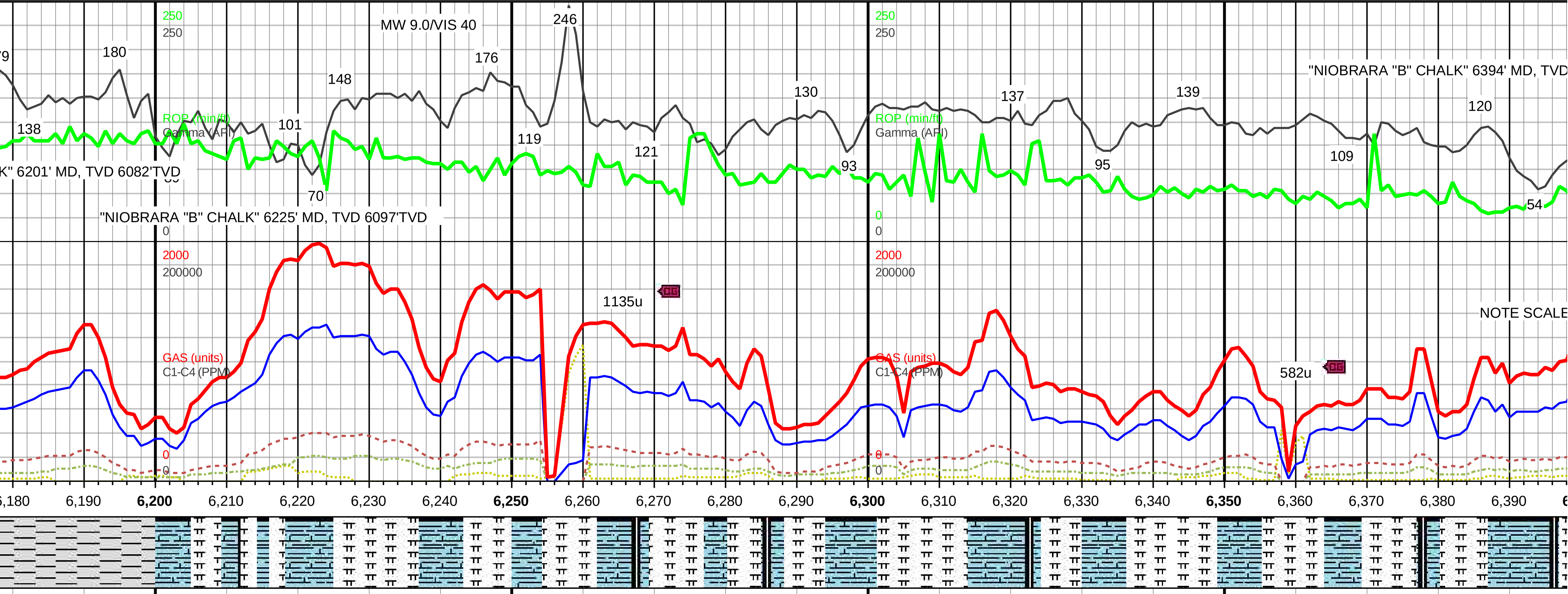
100% SH: md-dk gy, blky-sbbl
sli carb, pale ylw flor, sl wh cut

MD: 5,988 '
TVD: 5,922.54 '
Inclination: 31.34 °
Azimuth: 179.5 °

MD: 6,035 '
TVD: 5,961.5 '
Inclination: 36.65 °
Azimuth: 182.27 °

MD: 6,083 '
TVD: 5,999.09 '
InclinaMD: 6,087 ' °
AzimuTVD: 6,002.18 '

MD: 6,130 '
TVD: 6,034.12 '
Inclination: 43.4 °
Azimuth: 184.55 °



5400

ky, plty ip, sft-frm

80% CHLK. lt-m gy, off wh, sft-mod frm, blky-sbblky calc, wxy ip no flor, wh cut, bl res ring

20% MRL, m-dk gy, sft-frm, sbblky, occ specs, v cal, tr-foss, no flor, diffuse wh cuts

70% MRL, m-dk gy, sft-frm, sbblky, occ specs, v cal, tr-foss, no flor, diffuse wh cuts

30% CHLK. lt-m gy, off wh, sft-mod frm, blky-sbblky calc, wxy ip, sm tr-bent, no flor, wh cut, bl res ring

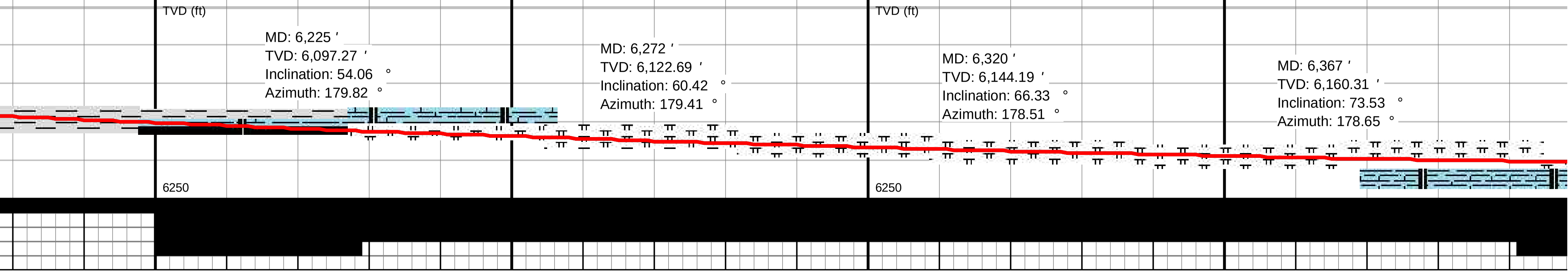
5400

60% MRL, m-dk gy, sft-frm, sbblky, occ specs, v cal, tr-foss, no flor, diffuse wh cuts

40% CHLK. lt-m gy, off wh, sft-mod frm, blky-sbblky calc, wxy ip, no flor, wh cut, bl res ring

60% MRL, m-dk gy, sft-frm, sbblky, occ specs, v cal, tr-foss, no flor, diffuse wh cuts

40% CHLK. lt-m gy, off wh, sft-mod frm, blky-sbblky calc, wxy ip, no flor, wh cut, bl res ring

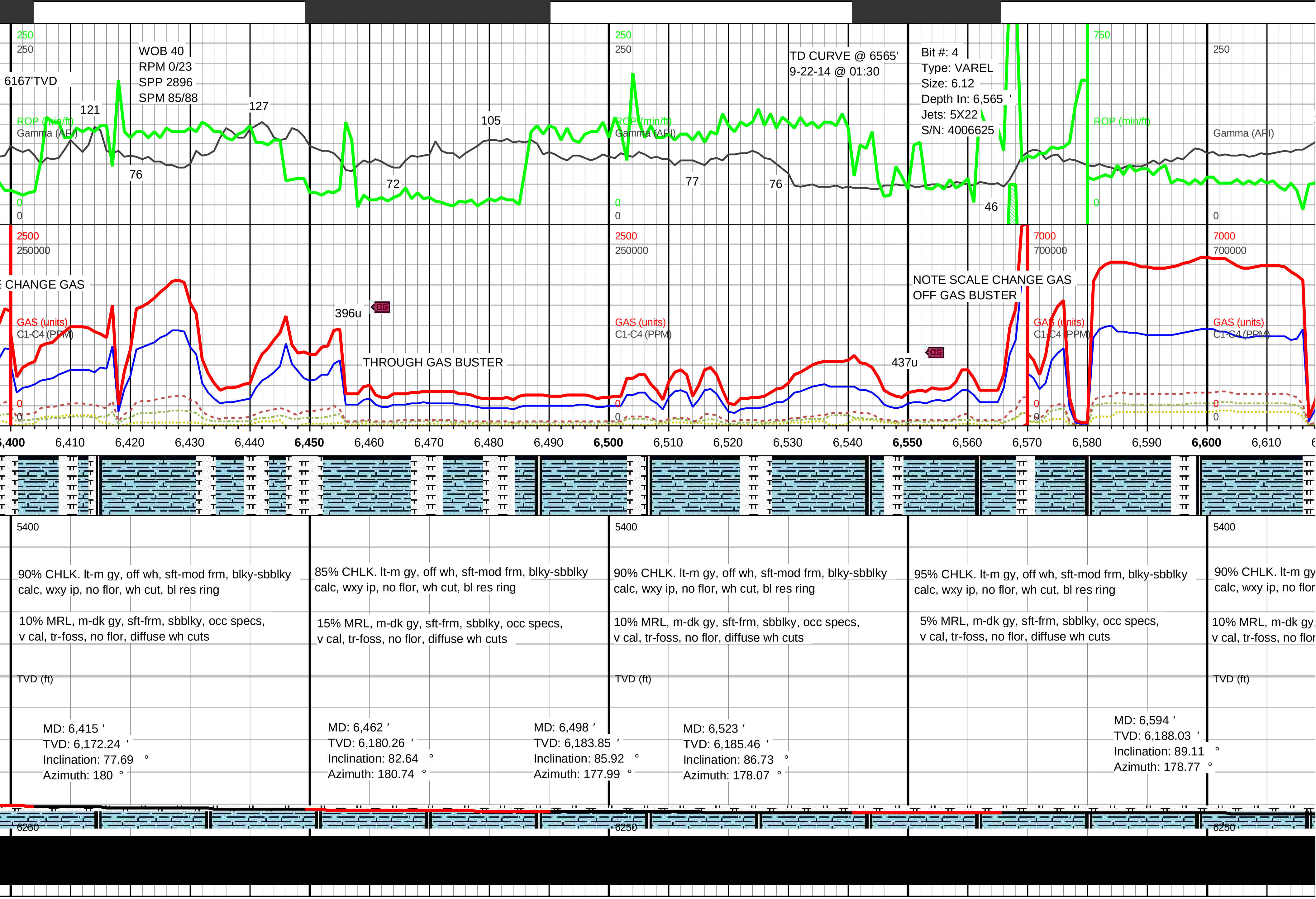


MD: 6,225 '
TVD: 6,097.27 '
Inclination: 54.06 °
Azimuth: 179.82 °

MD: 6,272 '
TVD: 6,122.69 '
Inclination: 60.42 °
Azimuth: 179.41 °

MD: 6,320 '
TVD: 6,144.19 '
Inclination: 66.33 °
Azimuth: 178.51 °

MD: 6,367 '
TVD: 6,160.31 '
Inclination: 73.53 °
Azimuth: 178.65 °



90% CHLK. lt-m gy, off wh, sft-mod frm, blky-sbblky calc, wxy ip, no flor, wh cut, bl res ring

10% MRL, m-dk gy, sft-frm, sbblky, occ specs, v cal, tr-foss, no flor, diffuse wh cuts

MD: 6,415 '
TVD: 6,172.24 '
Inclination: 77.69 °
Azimuth: 180 °

85% CHLK. lt-m gy, off wh, sft-mod frm, blky-sbblky calc, wxy ip, no flor, wh cut, bl res ring

15% MRL, m-dk gy, sft-frm, sbblky, occ specs, v cal, tr-foss, no flor, diffuse wh cuts

MD: 6,462 '
TVD: 6,180.26 '
Inclination: 82.64 °
Azimuth: 180.74 °

MD: 6,498 '
TVD: 6,183.85 '
Inclination: 85.92 °
Azimuth: 177.99 °

90% CHLK. lt-m gy, off wh, sft-mod frm, blky-sbblky calc, wxy ip, no flor, wh cut, bl res ring

10% MRL, m-dk gy, sft-frm, sbblky, occ specs, v cal, tr-foss, no flor, diffuse wh cuts

MD: 6,523 '
TVD: 6,185.46 '
Inclination: 86.73 °
Azimuth: 178.07 °

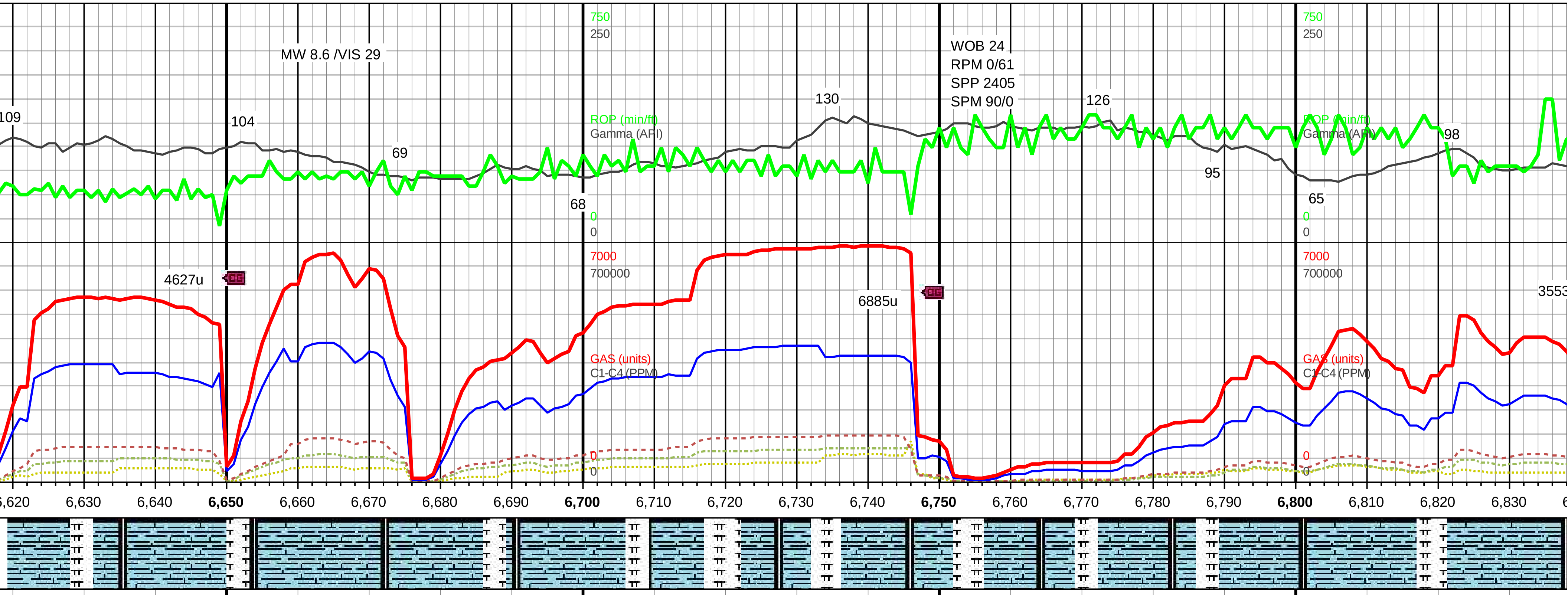
95% CHLK. lt-m gy, off wh, sft-mod frm, blky-sbblky calc, wxy ip, no flor, wh cut, bl res ring

5% MRL, m-dk gy, sft-frm, sbblky, occ specs, v cal, tr-foss, no flor, diffuse wh cuts

MD: 6,594 '
TVD: 6,188.03 '
Inclination: 89.11 °
Azimuth: 178.77 °

90% CHLK. lt-m gy, off wh, sft-mod frm, blky-sbblky calc, wxy ip, no flor

10% MRL, m-dk gy, sft-frm, sbblky, occ specs, v cal, tr-foss, no flor



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, off wh, sft-mod frm, blky-sbblky
, wh cut, bl res ring

sft-frm, sbblky, occ specs,
, diffuse wh cuts

95% CHLK. lt-m gy, off wh, sft-mod frm, blky-sbblky calc, wxy ip, no flor, wh cut, bl res ring

5% MRL, m-dk gy, sft-frm, sbblky, occ specs, v cal, tr-foss, no flor, diffuse wh cuts

MD: 6,689 ′
TVD: 6,189.33 ′
Inclination: 89.32 °
Azimuth: 177.81 °

80% CHLK. lt-dk gy, off wh, sft-mod frm, blky-sbblky calc, wxy ip, no flor, wh cut, bl res ring

20% MRL, m-dk gy, sft-frm, sbblky, occ specs, v cal, tr-foss, no flor, diffuse wh cuts

TVD (ft)

85% CHLK. lt-dk gy, off wh, sft-mod frm, blky-sbblky calc, wxy ip, no flor, wh cut, bl res ring

15% MRL, m-dk gy, sft-frm, sbblky, occ specs, v cal, tr-foss, no flor, diffuse wh cuts

MD: 6,784 ′
TVD: 6,190.02 ′
Inclination: 89.85 °
Azimuth: 177.28 °

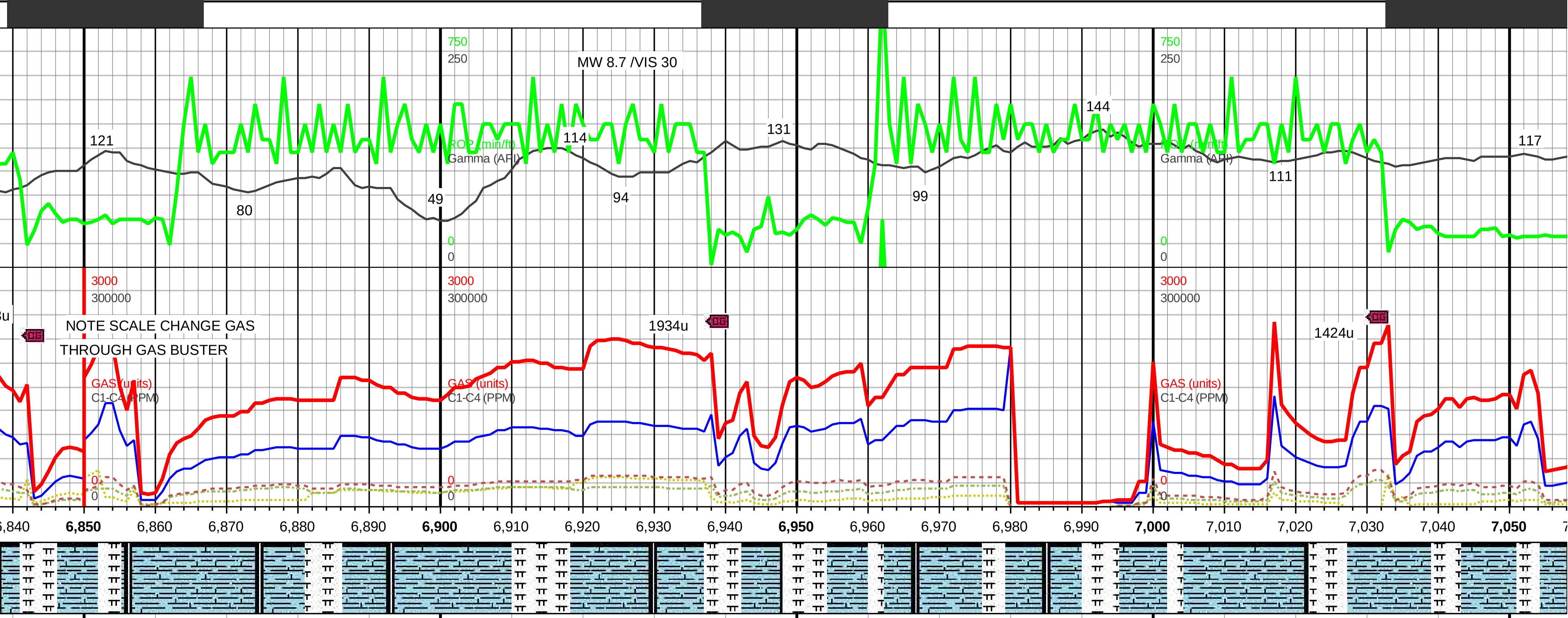
90% CHLK. lt-m gy, off wh, sft-mod frm, bl
calc, wxy ip, no flor, wh cut, bl res ring

10% MRL, m-dk gy, sft-frm, sbblky, occ sp
v cal, tr-foss, no flor, diffuse wh cuts

TVD (ft)

6250

6250



5400

ky-sbblky

pecs,

90% CHLK. lt-m gy, off wh, sft-mod frm, blky-sbblky calc, wxy ip, no flor, wh cut, bl res ring

10% MRL, m-dk gy, sft-frm, sbblky, occ specs, v cal, tr-foss, no flor, diffuse wh cuts

MD: 6,879 ′
TVD: 6,189.86 ′
Inclination: 90.34 °
Azimuth: 178.55 °

80% CHLK. lt-dk gy, off wh, sft-mod frm, blky-sbblky calc, wxy ip, no flor, wh cut, bl res ring

20% MRL, m-dk gy, sft-frm, sbblky, occ specs, v cal, tr-foss, no flor, diffuse wh cuts

TVD (ft)

70% CHLK. lt-dk gy, off wh, sft-mod frm, blky-sbblky calc, wxy ip, no flor, wh cut, bl res ring

30% MRL, m-dk gy, sft-frm, sbblky, occ specs, v cal, tr-foss, no flor, diffuse wh cuts

MD: 6,974 ′
TVD: 6,189.35 ′
Inclination: 90.28 °
Azimuth: 178.36 °

5400

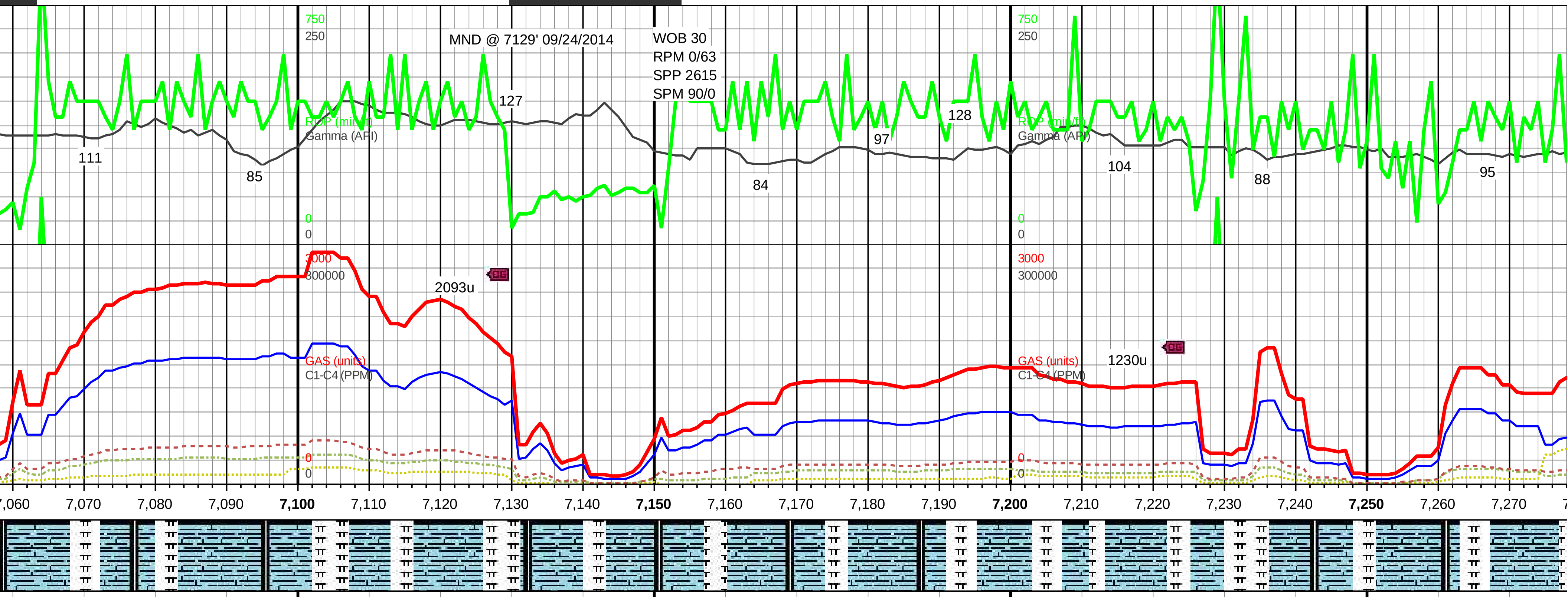
80% CHLK. lt-dk gy, off wh, sft-mod frm, blky-sbblky calc, wxy ip, no flor, wh cut, bl res ring

20% MRL, m-dk gy, sft-frm, sbblky, occ specs, v cal, tr-foss, no flor, diffuse wh cuts

TVD (ft)

80% CH
calc, wx

20% MR
v cal, tr-f



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LK. m-dk gy, off wh, sft-mod frm, blky-sbblky
y ip, no flor, wh cut, bl res ring

L, m-dk gy, sft-frm, sbblky, occ specs,
oss, no flor, diffuse wh cuts

MD: 7,069 ′
TVD: 6,189.28 ′
Inclination: 89.81 °
Azimuth: 178.77 °

70% CHLK. m-dk gy, off wh, sft-mod frm, blky-sbblky
calc, wxy ip, no flor, wh cut, bl res ring

30% MRL, m-dk gy, sft-frm, sbblky, occ specs,
v cal, tr-foss, no flor, diffuse wh cuts

TVD (ft)

80% CHLK. m-dk gy, off wh, sft-mod frm, blky-sbblky
calc, wxy ip, no flor, wh cut, bl res ring

20% MRL, m-dk gy, sft-frm, sbblky, occ specs,
v cal, tr-foss, no flor, diffuse wh cuts

MD: 7,165 ′
TVD: 6,190.19 ′
Inclination: 89.1 °
Azimuth: 180.31 °

5400

75% CHLK. m-dk gy, off wh, sft-mod frm, blky-sbblky
calc, wxy ip, no flor, wh cut, bl res ring

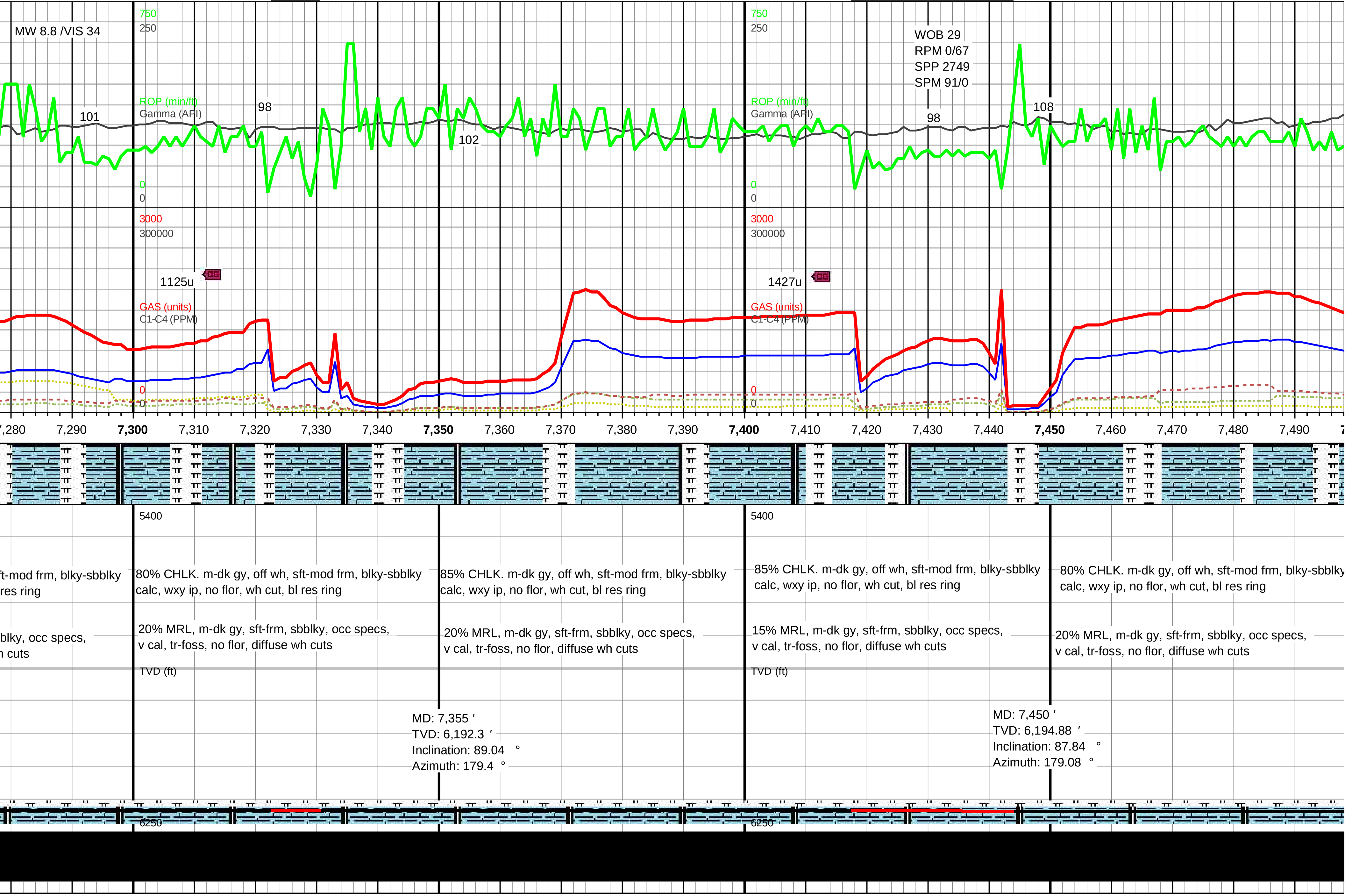
25% MRL, m-dk gy, sft-frm, sbblky, occ specs,
v cal, tr-foss, no flor, diffuse wh cuts

TVD (ft)

75% CHLK. m-dk gy, off wh, s
calc, wxy ip, no flor, wh cut, bl

25% MRL, m-dk gy, sft-frm, sb
v cal, tr-foss, no flor, diffuse wh

MD: 7,259 ′
TVD: 6,191.21 ′
Inclination: 89.66 °
Azimuth: 179.9 °



ft-mod frm, blky-sbblky
res ring

blky, occ specs,
n cuts

80% CHLK. m-dk gy, off wh, sft-mod frm, blky-sbblky calc, wxy ip, no flor, wh cut, bl res ring

20% MRL, m-dk gy, sft-frm, sbblky, occ specs, v cal, tr-foss, no flor, diffuse wh cuts

85% CHLK. m-dk gy, off wh, sft-mod frm, blky-sbblky calc, wxy ip, no flor, wh cut, bl res ring

20% MRL, m-dk gy, sft-frm, sbblky, occ specs, v cal, tr-foss, no flor, diffuse wh cuts

MD: 7,355 ′
TVD: 6,192.3 ′
Inclination: 89.04 °
Azimuth: 179.4 °

85% CHLK. m-dk gy, off wh, sft-mod frm, blky-sbblky calc, wxy ip, no flor, wh cut, bl res ring

15% MRL, m-dk gy, sft-frm, sbblky, occ specs, v cal, tr-foss, no flor, diffuse wh cuts

80% CHLK. m-dk gy, off wh, sft-mod frm, blky-sbblky calc, wxy ip, no flor, wh cut, bl res ring

20% MRL, m-dk gy, sft-frm, sbblky, occ specs, v cal, tr-foss, no flor, diffuse wh cuts

MD: 7,450 ′
TVD: 6,194.88 ′
Inclination: 87.84 °
Azimuth: 179.08 °

75% CHLK. m-dk gy, off wh, sft-mod frm, blky-sbblky calc, wxy ip, no flor, wh cut, bl res ring

25% MRL, m-dk gy, sft-frm, sbblky, occ specs, v cal, tr-foss, no flor, diffuse wh cuts

MD: 7,545 ′
TVD: 6,196.39 ′
Inclination: 90.34 °
Azimuth: 180.98 °

70% CHLK: m-dk gy, sft-mod frm, blky-sbblky calc, wxy ip, no flor, wh cut, bl res ring

30% MRL: m-dk gy, sft-frm, sbblky, occ specs, v cal, abnt fos, no flor, diffuse wh cuts.

85% CHLK: m-dk gy, sft-mod frm, blky-sbblky calc, wxy ip, no flor, wh cut, bl res ring

15% MRL: m-dk gy, sft-frm, sbblky, occ specs, v cal, abnt fos, no flor, diffuse wh cuts.

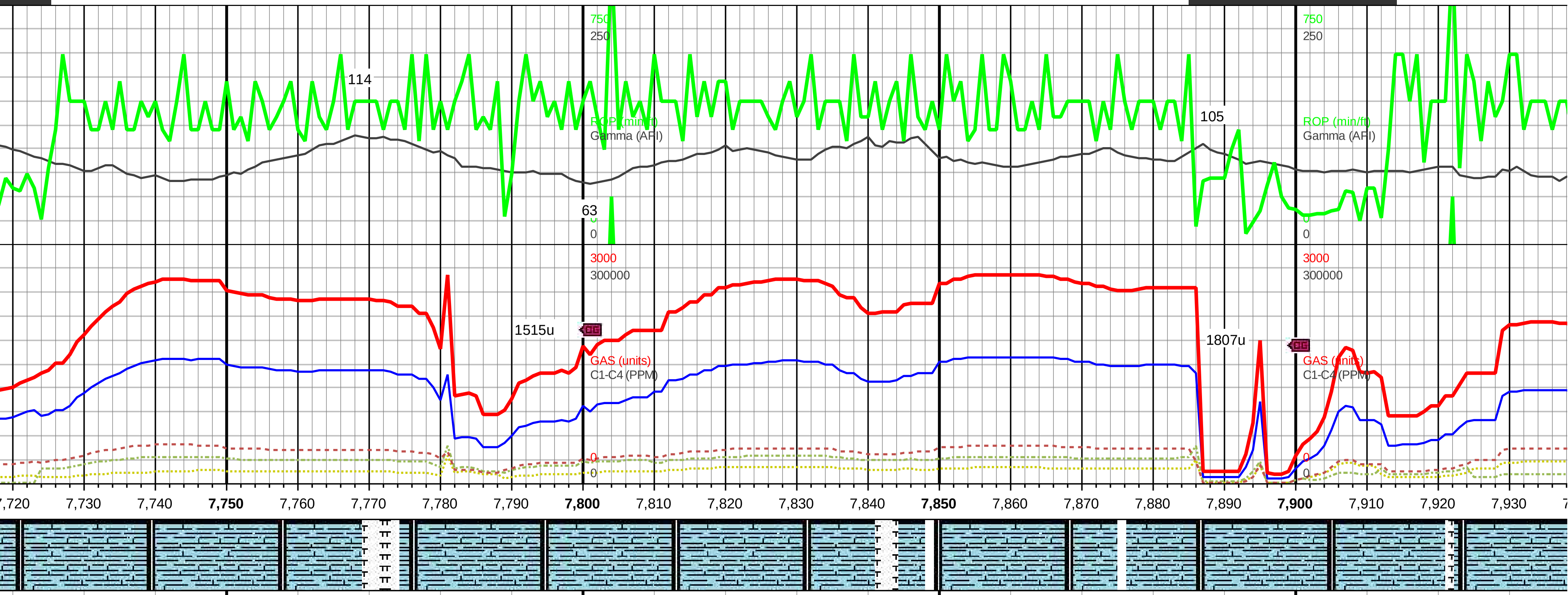
MD: 7,640 ′
TVD: 6,195.35 ′
Inclination: 89.75 °
Azimuth: 180.22 °

85% CHLK: m-dk gy, sft-mod frm, blky-sbblky calc, wxy ip, no flor, wh cut, bl res ring

15% MRL: m-dk gy, sft-frm, sbblky, occ specs, v cal, abnt fos, no flor, diffuse wh cuts.

85% CHLK: m-dk g
calc, wxy ip, no flor

15% MRL: m-dk g
v cal, abnt fos, no



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gy, sft-mod frm, blky-sbblky
, wh cut, bl res ring

y, sft-frm, sbblky, occ specs,
flor, diffuse wh cuts.

MD: 7,734 ′
VD: 6,195.54 ′
nclination: 91.24 °
zimuth: 181.45 °

85% CHLK: m-dk gy, sft-mod frm, blky-sbblky
calc, wxy ip, no flor, wh cut, bl res ring

15% MRL: m-dk gy, sft-frm, sbblky, occ specs,
v cal, abnt fos, no flor, diffuse wh cuts.

85% CHLK: m-dk gy, sft-mod frm, blky-sbblky
calc, wxy ip, no flor, wh cut, bl res ring

15% MRL: m-dk gy, sft-frm, sbblky, occ specs,
v cal, abnt fos, no flor, diffuse wh cuts.

TVD (ft)

MD: 7,829 ′
TVD: 6,192.79 ′
Inclination: 92.08 °
Azimuth: 181.58 °

85% CHLK: m-dk gy, sft-mod frm, blky-sbblky
calc, wxy ip, no flor, wh cut, bl res ring

15% MRL: m-dk gy, sft-frm, sbblky, occ specs,
v cal, abnt fos, no flor, diffuse wh cuts.

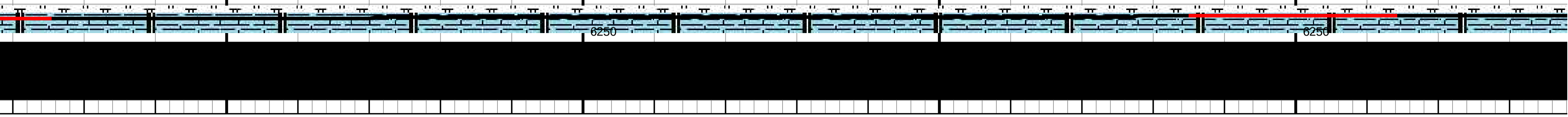
5400

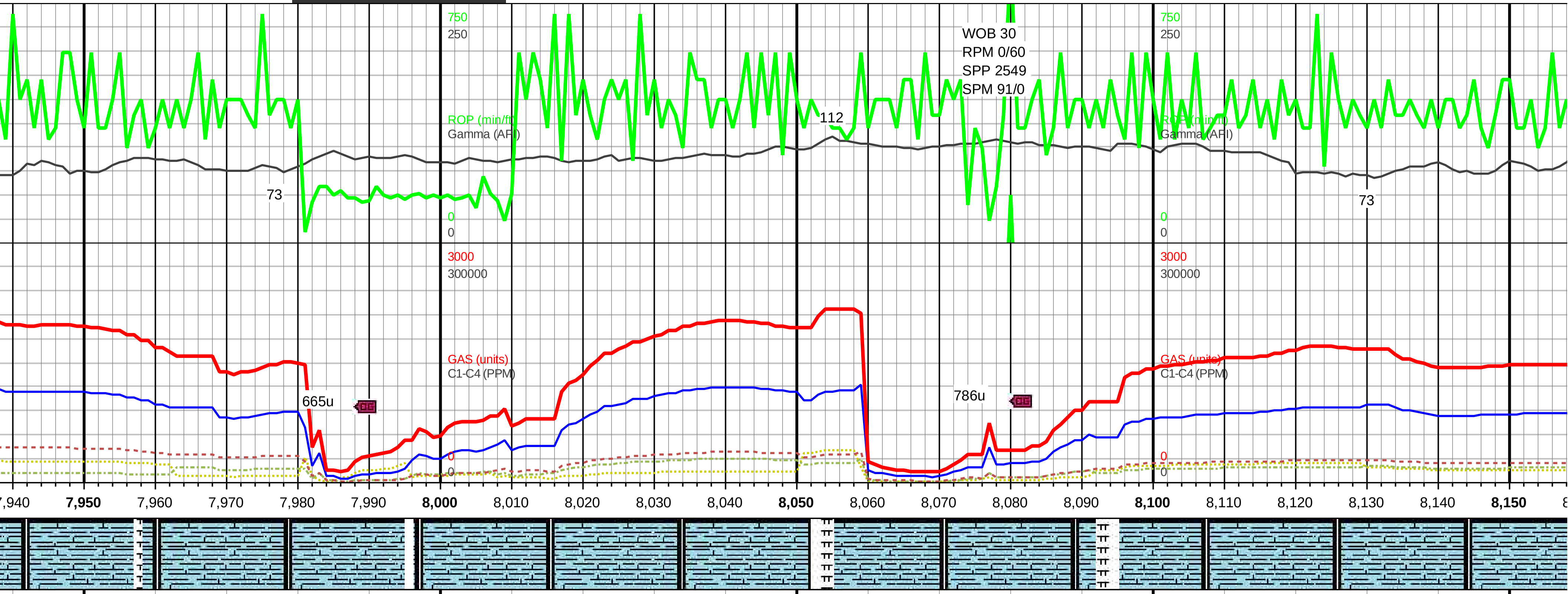
90% CHLK: m-dk gy, sft-mod frm, blky-s
calc, wxy ip, no flor, wh cut, bl res ring

10% MRL: m-dk gy, sft-frm, sbblky, occ s
v cal, abnt fos, no flor, diffuse wh cuts.

TVD (ft)

MD: 7,924 ′
TVD: 6,189.91 ′
Inclination: 91.39 °
Azimuth: 182.4 °





5400

bblky

pecs,

90% CHLK: m-dk gy, sft-mod frm, blky-sbblky calc, wxy ip, no flor, wh cut, bl res ring

10% MRL: m-dk gy, sft-frm, sbblky, occ specs, v cal, abnt fos, no flor, diffuse wh cuts.

90% CHLK: m-dk gy, sft-mod frm, blky-sbblky calc, wxy ip, no flor, wh cut, bl res ring

10% MRL: m-dk gy, sft-frm, sbblky, occ specs, v cal, abnt fos, no flor, diffuse wh cuts.

TVD (ft)

MD: 8,019 ′
TVD: 6,188.58 ′
Inclination: 90.22 °
Azimuth: 180.97 °

85% CHLK: m-dk gy, sft-mod frm, blky-sbblky calc, wxy ip, no flor, wh cut, bl res ring

15% MRL: m-dk gy, sft-frm, sbblky, occ specs, v cal, abnt fos, no flor, diffuse wh cuts.

5400

90% CHLK: m-dk gy, sft-mod frm, blky-sbblky calc, wxy ip, no flor, wh cut, bl res ring

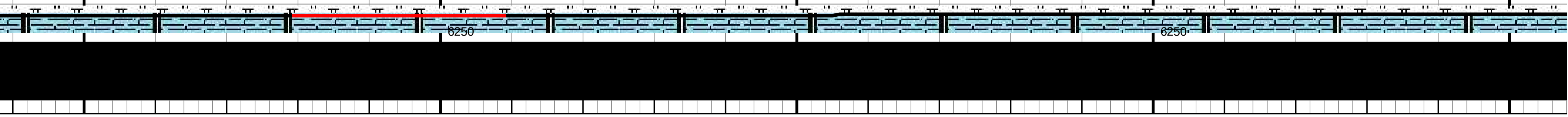
10% MRL: m-dk gy, sft-frm, sbblky, occ specs, v cal, abnt fos, no flor, diffuse wh cuts.

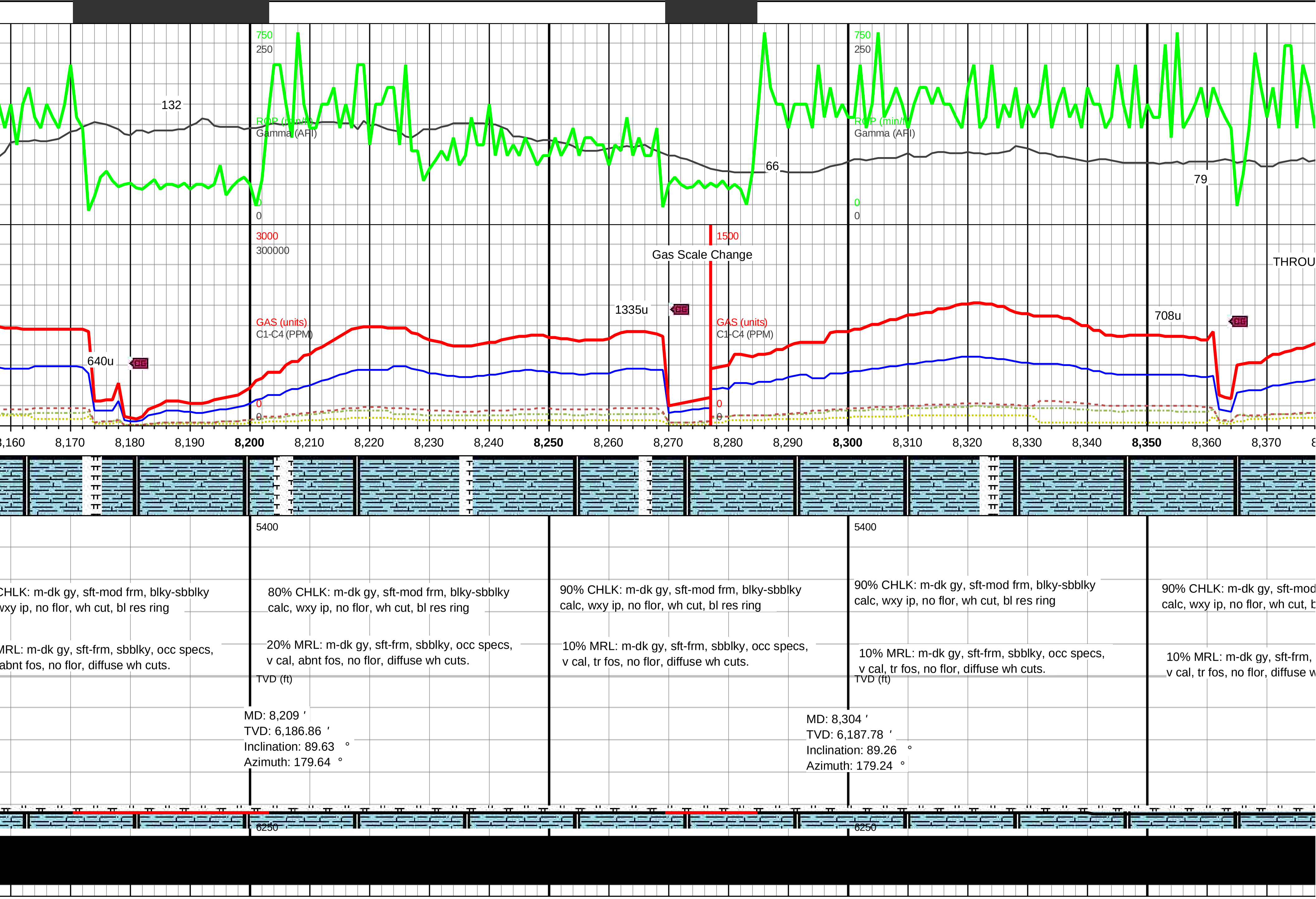
TVD (ft)

MD: 8,114 ′
TVD: 6,187.47 ′
Inclination: 91.11 °
Azimuth: 181.09 °

80% C
calc, v

20% M
v cal,





CHLK: m-dk gy, sft-mod frm, blky-sbblky
wxy ip, no flor, wh cut, bl res ring

MRL: m-dk gy, sft-frm, sbblky, occ specs,
abnt fos, no flor, diffuse wh cuts.

80% CHLK: m-dk gy, sft-mod frm, blky-sbblky calc, wxy ip, no flor, wh cut, bl res ring

20% MRL: m-dk gy, sft-frm, sbblky, occ specs, v cal, abnt fos, no flor, diffuse wh cuts.

MD: 8,209 ′
TVD: 6,186.86 ′
Inclination: 89.63 °
Azimuth: 179.64 °

90% CHLK: m-dk gy, sft-mod frm, blky-sbblky calc, wxy ip, no flor, wh cut, bl res ring

10% MRL: m-dk gy, sft-frm, sbblky, occ specs, v cal, tr fos, no flor, diffuse wh cuts.

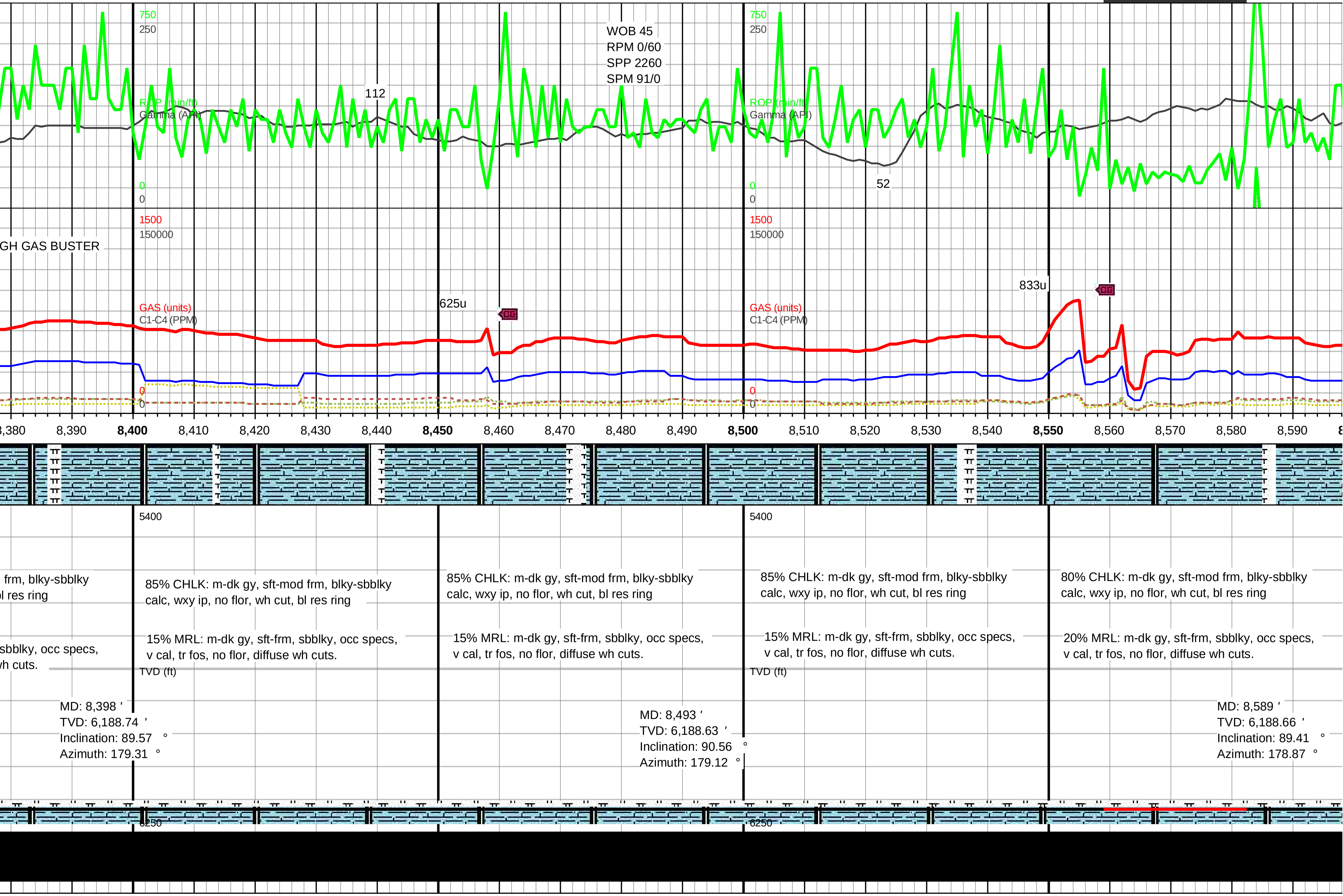
90% CHLK: m-dk gy, sft-mod frm, blky-sbblky calc, wxy ip, no flor, wh cut, bl res ring

10% MRL: m-dk gy, sft-frm, sbblky, occ specs, v cal, tr fos, no flor, diffuse wh cuts.

MD: 8,304 ′
TVD: 6,187.78 ′
Inclination: 89.26 °
Azimuth: 179.24 °

90% CHLK: m-dk gy, sft-mod
calc, wxy ip, no flor, wh cut, b

10% MRL: m-dk gy, sft-frm,
v cal, tr fos, no flor, diffuse w



frm, blky-sbblky
l res ring

sbblky, occ specs,
h cuts.

MD: 8,398 ′
TVD: 6,188.74 ′
Inclination: 89.57 °
Azimuth: 179.31 °

85% CHLK: m-dk gy, sft-mod frm, blky-sbblky calc, wxy ip, no flor, wh cut, bl res ring

15% MRL: m-dk gy, sft-frm, sbblky, occ specs, v cal, tr fos, no flor, diffuse wh cuts.

85% CHLK: m-dk gy, sft-mod frm, blky-sbblky calc, wxy ip, no flor, wh cut, bl res ring

15% MRL: m-dk gy, sft-frm, sbblky, occ specs, v cal, tr fos, no flor, diffuse wh cuts.

MD: 8,493 ′
TVD: 6,188.63 ′
Inclination: 90.56 °
Azimuth: 179.12 °

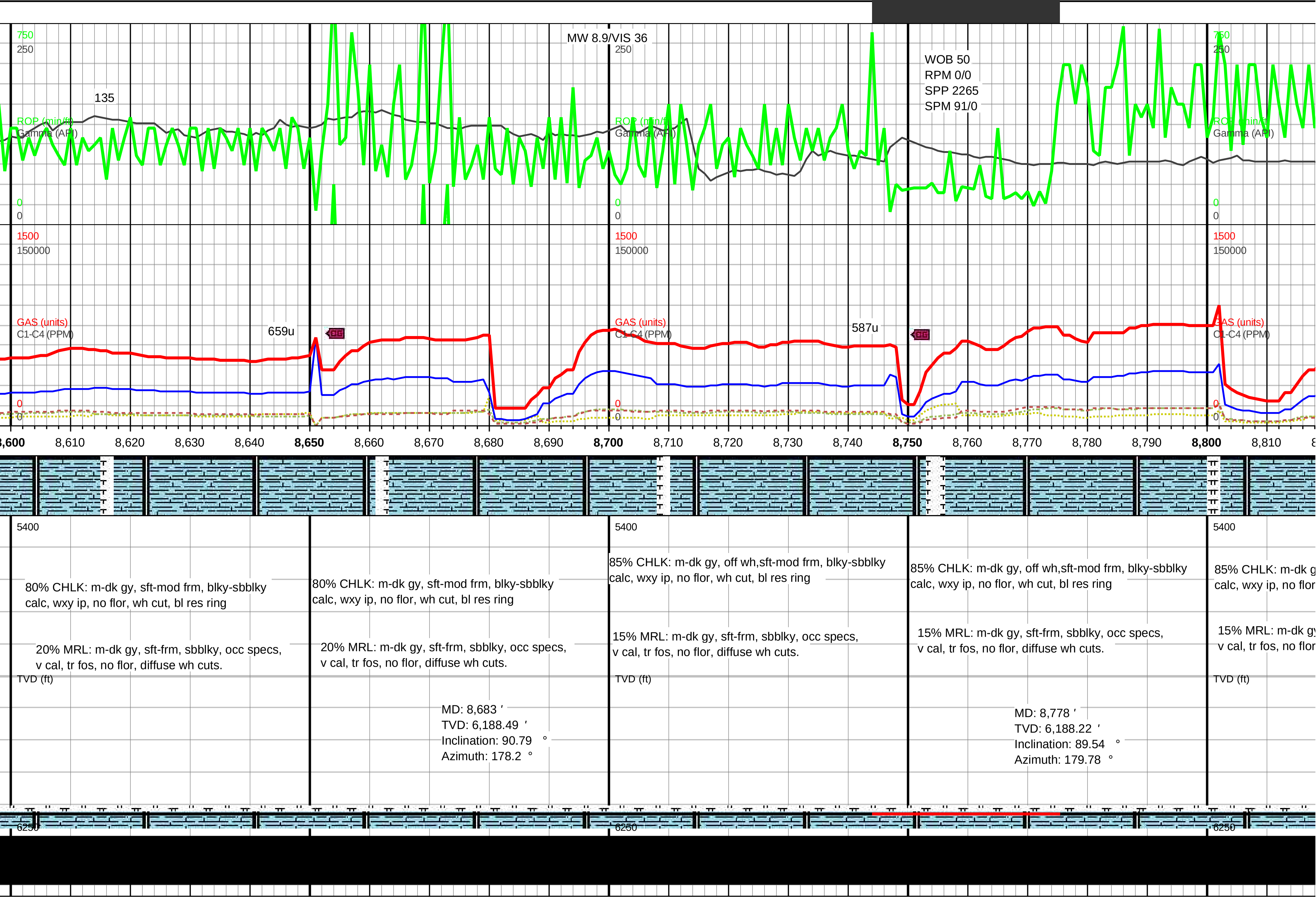
85% CHLK: m-dk gy, sft-mod frm, blky-sbblky calc, wxy ip, no flor, wh cut, bl res ring

15% MRL: m-dk gy, sft-frm, sbblky, occ specs, v cal, tr fos, no flor, diffuse wh cuts.

80% CHLK: m-dk gy, sft-mod frm, blky-sbblky calc, wxy ip, no flor, wh cut, bl res ring

20% MRL: m-dk gy, sft-frm, sbblky, occ specs, v cal, tr fos, no flor, diffuse wh cuts.

MD: 8,589 ′
TVD: 6,188.66 ′
Inclination: 89.41 °
Azimuth: 178.87 °



80% CHLK: m-dk gy, sft-mod frm, blky-sbblky calc, wxy ip, no flor, wh cut, bl res ring

20% MRL: m-dk gy, sft-frm, sbblky, occ specs, v cal, tr fos, no flor, diffuse wh cuts.

80% CHLK: m-dk gy, sft-mod frm, blky-sbblky calc, wxy ip, no flor, wh cut, bl res ring

20% MRL: m-dk gy, sft-frm, sbblky, occ specs, v cal, tr fos, no flor, diffuse wh cuts.

MD: 8,683 ʼ
TVD: 6,188.49 ʼ
Inclination: 90.79 °
Azimuth: 178.2 °

85% CHLK: m-dk gy, off wh,sft-mod frm, blky-sbblky calc, wxy ip, no flor, wh cut, bl res ring

15% MRL: m-dk gy, sft-frm, sbblky, occ specs, v cal, tr fos, no flor, diffuse wh cuts.

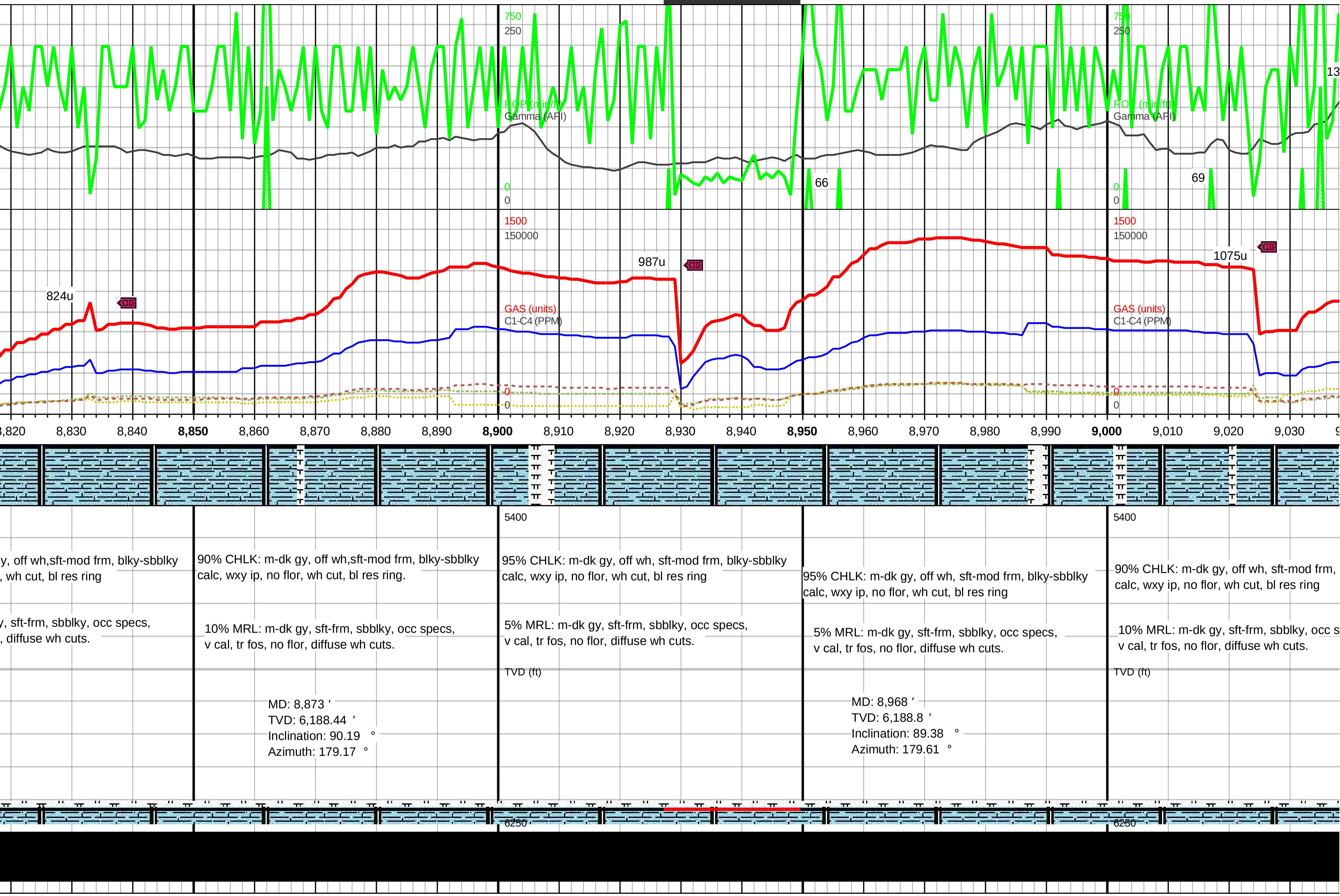
85% CHLK: m-dk gy, off wh,sft-mod frm, blky-sbblky calc, wxy ip, no flor, wh cut, bl res ring

15% MRL: m-dk gy, sft-frm, sbblky, occ specs, v cal, tr fos, no flor, diffuse wh cuts.

MD: 8,778 ʼ
TVD: 6,188.22 ʼ
Inclination: 89.54 °
Azimuth: 179.78 °

85% CHLK: m-dk g
calc, wxy ip, no flor

15% MRL: m-dk g
v cal, tr fos, no flor



y, off wh,sft-mod frm, blky-sbblky
, wh cut, bl res ring

y, sft-frm, sbblky, occ specs,
, diffuse wh cuts.

90% CHLK: m-dk gy, off wh,sft-mod frm, blky-sbblky calc, wxy ip, no flor, wh cut, bl res ring.

10% MRL: m-dk gy, sft-frm, sbblky, occ specs, v cal, tr fos, no flor, diffuse wh cuts.

MD: 8,873 ′
TVD: 6,188.44 ′
Inclination: 90.19 °
Azimuth: 179.17 °

95% CHLK: m-dk gy, off wh, sft-mod frm, blky-sbblky calc, wxy ip, no flor, wh cut, bl res ring

5% MRL: m-dk gy, sft-frm, sbblky, occ specs, v cal, tr fos, no flor, diffuse wh cuts.

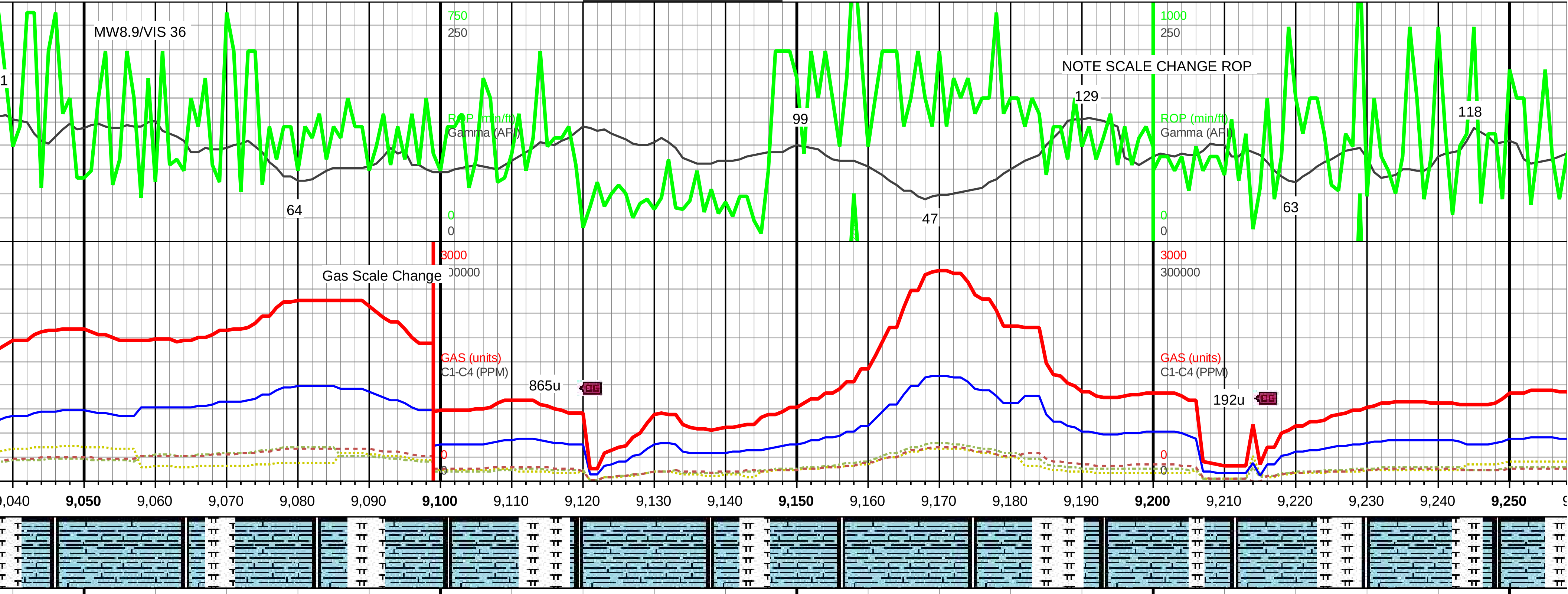
95% CHLK: m-dk gy, off wh, sft-mod frm, blky-sbblky calc, wxy ip, no flor, wh cut, bl res ring

5% MRL: m-dk gy, sft-frm, sbblky, occ specs, v cal, tr fos, no flor, diffuse wh cuts.

MD: 8,968 ′
TVD: 6,188.8 ′
Inclination: 89.38 °
Azimuth: 179.61 °

90% CHLK: m-dk gy, off wh, sft-mod frm,
calc, wxy ip, no flor, wh cut, bl res ring

10% MRL: m-dk gy, sft-frm, sbblky, occ s
v cal, tr fos, no flor, diffuse wh cuts.



blky-sbblky

pecs,

5400

90% CHLK: m-dk gy, off wh, sft-mod frm, blky-sbblky
calc, wxy ip, no flor, wh cut, bl res ring

10% MRL: m-dk gy, sft-frm, sbblky, occ specs,
v cal, tr fos, no flor, diffuse wh cuts.

MD: 9,063 ′
TVD: 6,188.84 ′
Inclination: 90.57 °
Azimuth: 178.22 °

90% CHLK: m-dk gy, off wh, sft-mod frm, blky-sbblky
calc, wxy ip, no flor, wh cut, bl res ring

10% MRL: m-dk gy, sft-frm, sbblky, occ specs,
v cal, tr fos, no flor, diffuse wh cuts.

TVD (ft)

90% CHLK: m-dk gy, off wh, sft-mod frm, blky-sbblky
calc, wxy ip, no flor, wh cut, bl res ring

10% MRL: m-dk gy, sft-frm, sbblky, occ specs,
v cal, tr fos, no flor, diffuse wh cuts.

MD: 9,157 ′
TVD: 6,188.87 ′
Inclination: 89.4 °
Azimuth: 180.3 °

5400

85% CHLK: m-dk gy, off wh, sft-mod frm, blky-sbblky
calc, wxy ip, no flor, wh cut, bl res ring

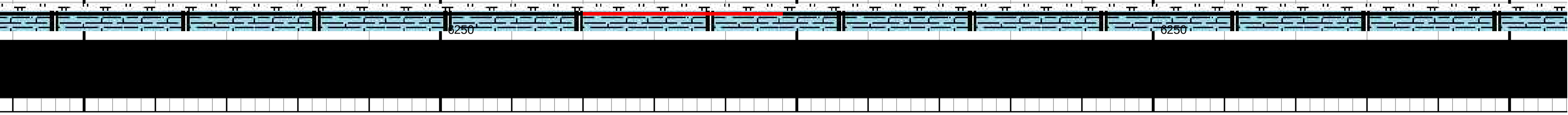
15% MRL: m-dk gy, sft-frm, sbblky, occ specs,
v cal, tr fos, no flor, diffuse wh cuts.

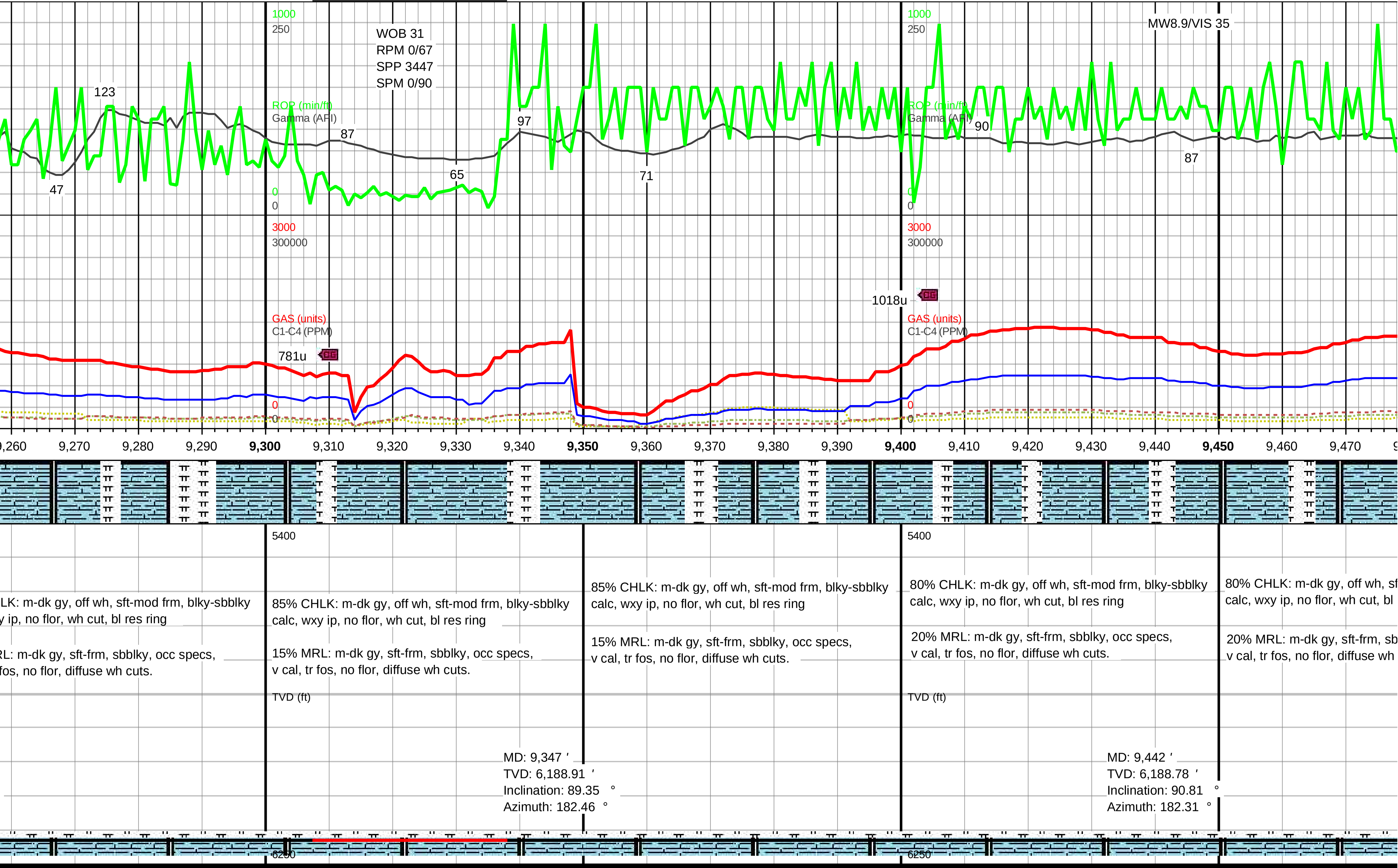
TVD (ft)

MD: 9,252 ′
TVD: 6,188.87 ′
Inclination: 90.6 °
Azimuth: 179.15 °

90% CH
calc, wx

10% MF
v cal, tr





LK: m-dk gy, off wh, sft-mod frm, blky-sbblky
y ip, no flor, wh cut, bl res ring

RL: m-dk gy, sft-frm, sbblky, occ specs,
fos, no flor, diffuse wh cuts.

85% CHLK: m-dk gy, off wh, sft-mod frm, blky-sbblky
calc, wxy ip, no flor, wh cut, bl res ring

15% MRL: m-dk gy, sft-frm, sbblky, occ specs,
v cal, tr fos, no flor, diffuse wh cuts.

MD: 9,347 ′
TVD: 6,188.91 ′
Inclination: 89.35 °
Azimuth: 182.46 °

85% CHLK: m-dk gy, off wh, sft-mod frm, blky-sbblky
calc, wxy ip, no flor, wh cut, bl res ring

15% MRL: m-dk gy, sft-frm, sbblky, occ specs,
v cal, tr fos, no flor, diffuse wh cuts.

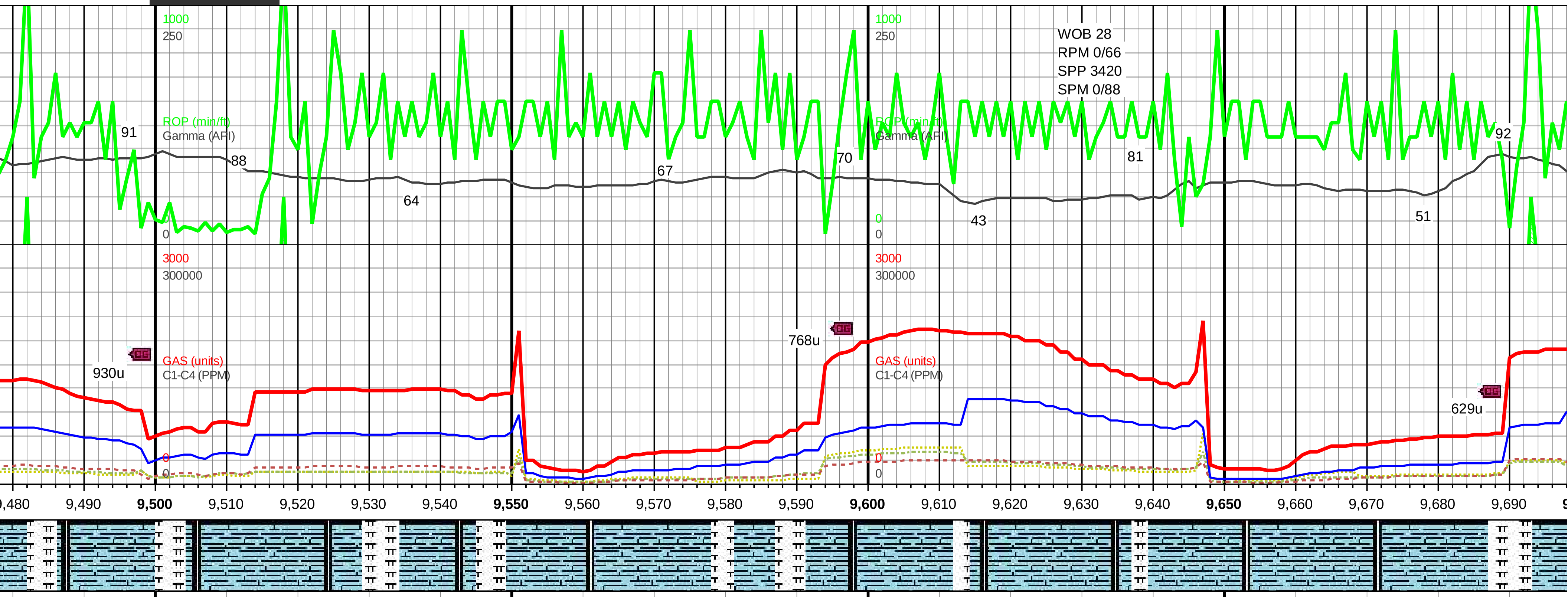
80% CHLK: m-dk gy, off wh, sft-mod frm, blky-sbblky
calc, wxy ip, no flor, wh cut, bl res ring

20% MRL: m-dk gy, sft-frm, sbblky, occ specs,
v cal, tr fos, no flor, diffuse wh cuts.

MD: 9,442 ′
TVD: 6,188.78 ′
Inclination: 90.81 °
Azimuth: 182.31 °

80% CHLK: m-dk gy, off wh, sf
calc, wxy ip, no flor, wh cut, bl

20% MRL: m-dk gy, sft-frm, sb
v cal, tr fos, no flor, diffuse wh



WOB 28
RPM 0/66
SPP 3420
SPM 0/88

5400

t-mod frm, blky-sbblky
res ring

blky, occ specs,
cuts.

85% CHLK: m-dk gy, off wh, sft-mod frm, blky-sbblky calc, wxy ip, no flor, wh cut, bl res ring

15% MRL: m-dk gy, sft-frm, sbblky, occ specs, v cal, tr fos, no flor, diffuse wh cuts.

90% CHLK: m-dk gy, off wh, sft-mod frm, blky-sbblky calc, wxy ip, no flor, wh cut, bl res ring

10% MRL: m-dk gy, sft-frm, sbblky, occ specs, v cal, tr fos, no flor, diffuse wh cuts.

95% CHLK: lt-m gy, off wh, sft-mod frm, blky-sbblky calc, wxy ip, no flor, wh cut, bl res ring

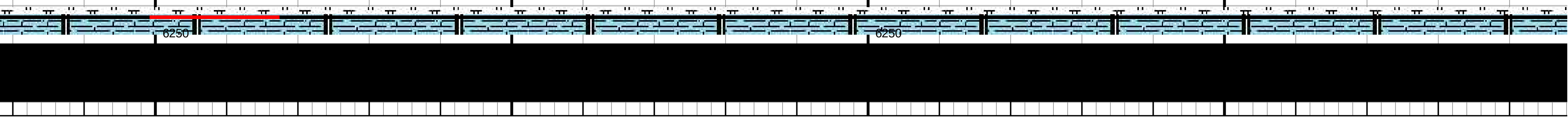
5% MRL: m-dk gy, sft-frm, sbblky, occ specs, v cal, tr fos, no flor, diffuse wh cuts.

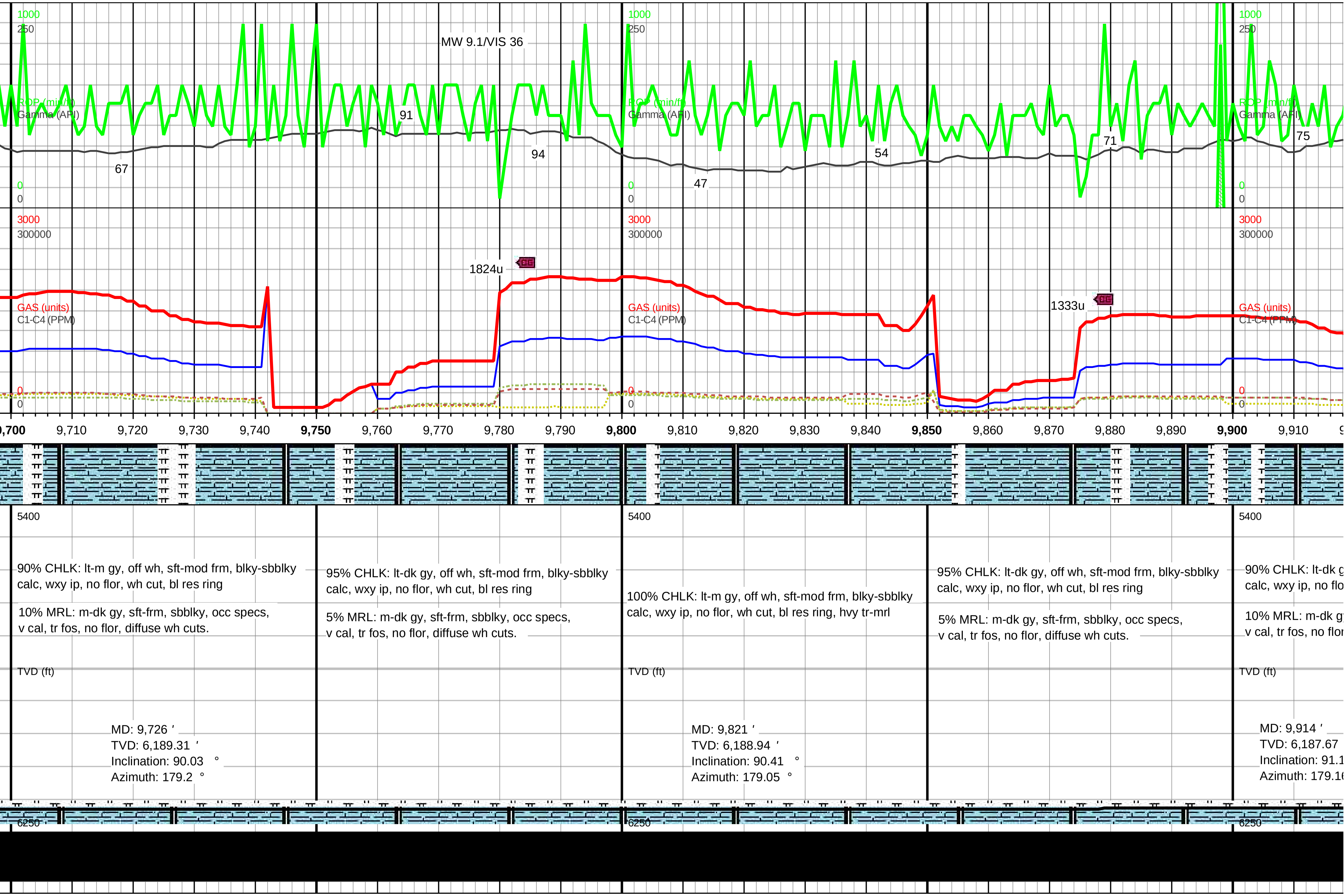
95% CHLK: lt-m gy, off wh, sft-mod frm, blky-sbblky calc, wxy ip, no flor, wh cut, bl res ring

5% MRL: m-dk gy, sft-frm, sbblky, occ specs, v cal, tr fos, no flor, diffuse wh cuts.

TVD (ft)

MD: 9,632 ’
TVD: 6,189.26 ’
Inclination: 89.91 °
Azimuth: 180.15 °





90% CHLK: lt-m gy, off wh, sft-mod frm, blky-sbblky calc, wxy ip, no flor, wh cut, bl res ring

10% MRL: m-dk gy, sft-frm, sbblky, occ specs, v cal, tr fos, no flor, diffuse wh cuts.

MD: 9,726 ′
TVD: 6,189.31 ′
Inclination: 90.03 °
Azimuth: 179.2 °

95% CHLK: lt-dk gy, off wh, sft-mod frm, blky-sbblky calc, wxy ip, no flor, wh cut, bl res ring

5% MRL: m-dk gy, sft-frm, sbblky, occ specs, v cal, tr fos, no flor, diffuse wh cuts.

100% CHLK: lt-m gy, off wh, sft-mod frm, blky-sbblky calc, wxy ip, no flor, wh cut, bl res ring, hvy tr-mrl

MD: 9,821 ′
TVD: 6,188.94 ′
Inclination: 90.41 °
Azimuth: 179.05 °

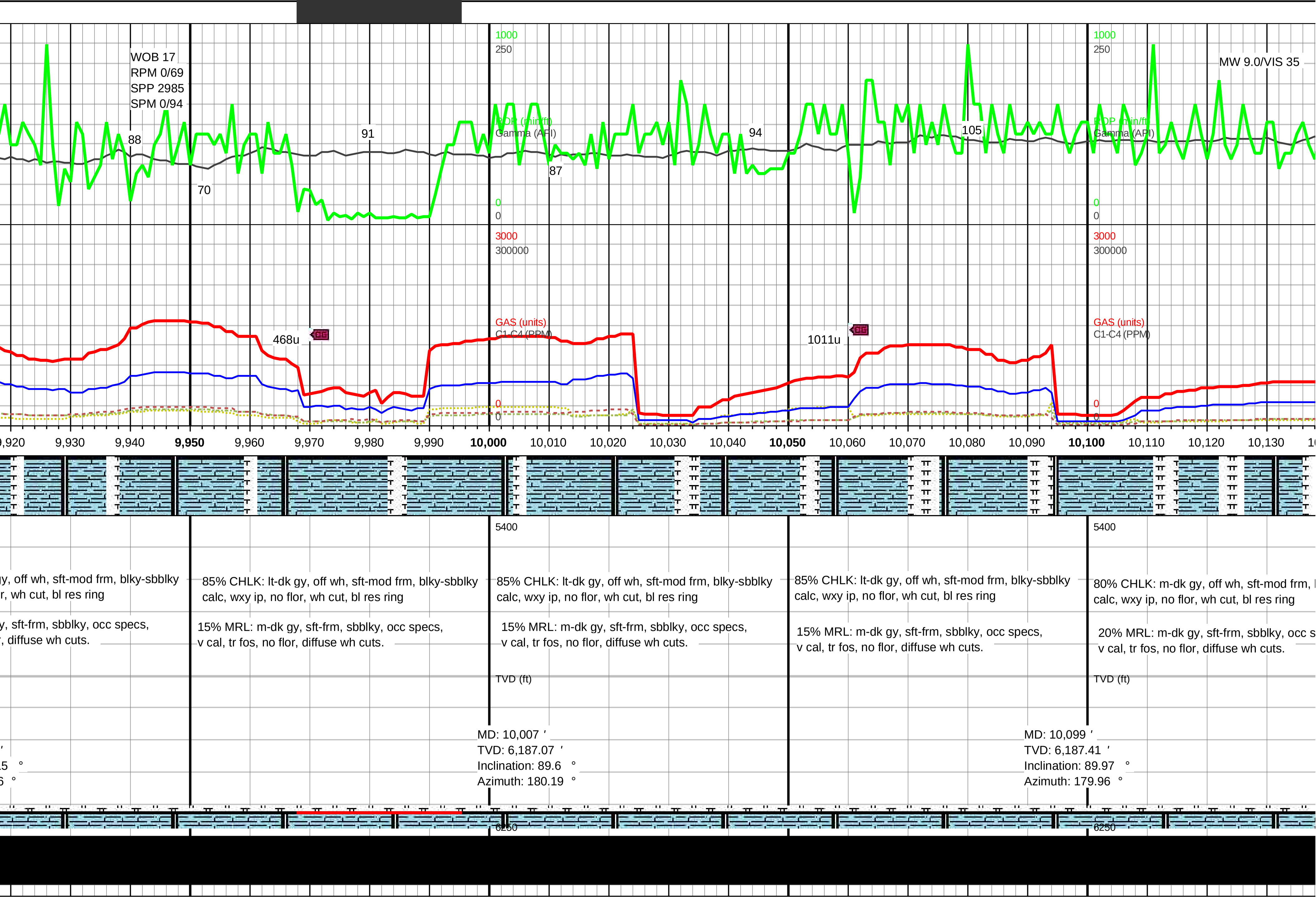
95% CHLK: lt-dk gy, off wh, sft-mod frm, blky-sbblky calc, wxy ip, no flor, wh cut, bl res ring

5% MRL: m-dk gy, sft-frm, sbblky, occ specs, v cal, tr fos, no flor, diffuse wh cuts.

90% CHLK: lt-dk g
calc, wxy ip, no flo

10% MRL: m-dk g
v cal, tr fos, no flor

MD: 9,914 ′
TVD: 6,187.67
Inclination: 91.1
Azimuth: 179.1



gy, off wh, sft-mod frm, blky-sbblky
r, wh cut, bl res ring

y, sft-frm, sbblky, occ specs,
, diffuse wh cuts.

85% CHLK: lt-dk gy, off wh, sft-mod frm, blky-sbblky
calc, wxy ip, no flor, wh cut, bl res ring

15% MRL: m-dk gy, sft-frm, sbblky, occ specs,
v cal, tr fos, no flor, diffuse wh cuts.

85% CHLK: lt-dk gy, off wh, sft-mod frm, blky-sbblky
calc, wxy ip, no flor, wh cut, bl res ring

15% MRL: m-dk gy, sft-frm, sbblky, occ specs,
v cal, tr fos, no flor, diffuse wh cuts.

85% CHLK: lt-dk gy, off wh, sft-mod frm, blky-sbblky
calc, wxy ip, no flor, wh cut, bl res ring

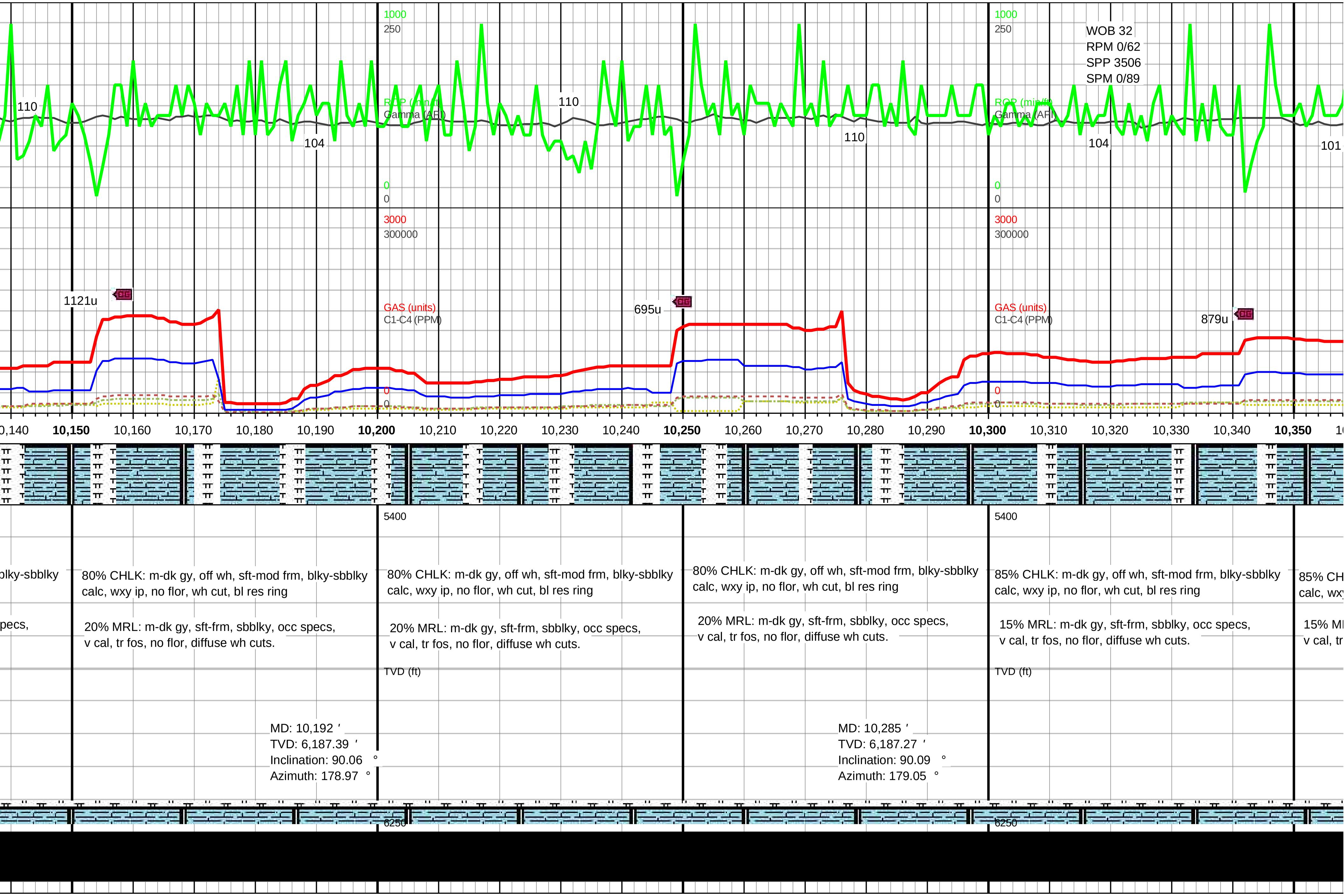
15% MRL: m-dk gy, sft-frm, sbblky, occ specs,
v cal, tr fos, no flor, diffuse wh cuts.

80% CHLK: m-dk gy, off wh, sft-mod frm,
calc, wxy ip, no flor, wh cut, bl res ring

20% MRL: m-dk gy, sft-frm, sbblky, occ s
v cal, tr fos, no flor, diffuse wh cuts.

MD: 10,007 ʹ
TVD: 6,187.07 ʹ
Inclination: 89.6 °
Azimuth: 180.19 °

MD: 10,099 ʹ
TVD: 6,187.41 ʹ
Inclination: 89.97 °
Azimuth: 179.96 °



blky-sbblky

specs,

80% CHLK: m-dk gy, off wh, sft-mod frm, blky-sbblky calc, wxy ip, no flor, wh cut, bl res ring

20% MRL: m-dk gy, sft-frm, sbblky, occ specs, v cal, tr fos, no flor, diffuse wh cuts.

MD: 10,192 ′
TVD: 6,187.39 ′
Inclination: 90.06 °
Azimuth: 178.97 °

80% CHLK: m-dk gy, off wh, sft-mod frm, blky-sbblky calc, wxy ip, no flor, wh cut, bl res ring

20% MRL: m-dk gy, sft-frm, sbblky, occ specs, v cal, tr fos, no flor, diffuse wh cuts.

80% CHLK: m-dk gy, off wh, sft-mod frm, blky-sbblky calc, wxy ip, no flor, wh cut, bl res ring

20% MRL: m-dk gy, sft-frm, sbblky, occ specs, v cal, tr fos, no flor, diffuse wh cuts.

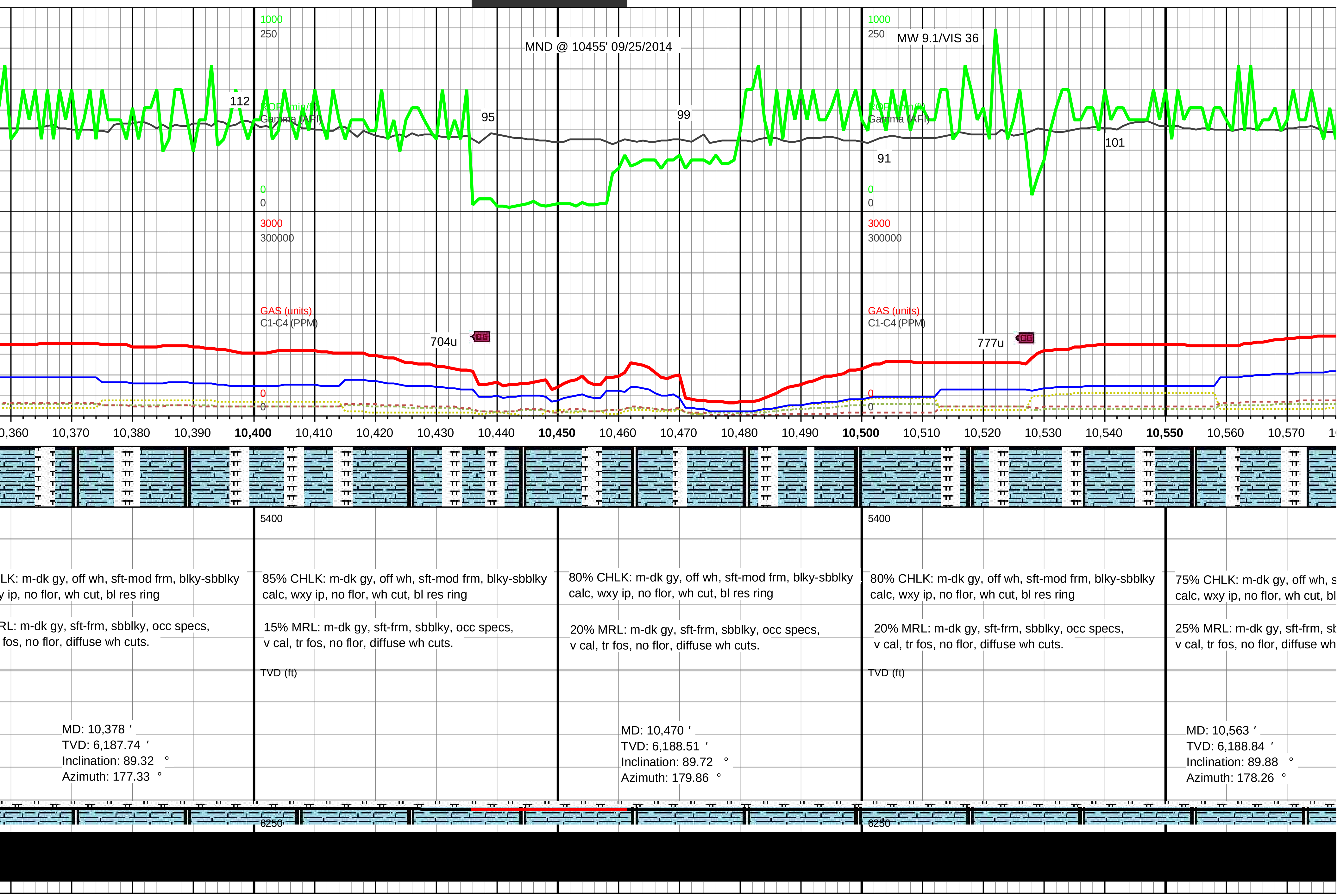
MD: 10,285 ′
TVD: 6,187.27 ′
Inclination: 90.09 °
Azimuth: 179.05 °

85% CHLK: m-dk gy, off wh, sft-mod frm, blky-sbblky calc, wxy ip, no flor, wh cut, bl res ring

15% MRL: m-dk gy, sft-frm, sbblky, occ specs, v cal, tr fos, no flor, diffuse wh cuts.

85% CH
calc, wx

15% M
v cal, tr



LK: m-dk gy, off wh, sft-mod frm, blky-sbblky
y ip, no flor, wh cut, bl res ring

RL: m-dk gy, sft-frm, sbblky, occ specs,
fos, no flor, diffuse wh cuts.

MD: 10,378 ′
TVD: 6,187.74 ′
Inclination: 89.32 °
Azimuth: 177.33 °

85% CHLK: m-dk gy, off wh, sft-mod frm, blky-sbblky calc, wxy ip, no flor, wh cut, bl res ring

15% MRL: m-dk gy, sft-frm, sbblky, occ specs, v cal, tr fos, no flor, diffuse wh cuts.

80% CHLK: m-dk gy, off wh, sft-mod frm, blky-sbblky calc, wxy ip, no flor, wh cut, bl res ring

20% MRL: m-dk gy, sft-frm, sbblky, occ specs, v cal, tr fos, no flor, diffuse wh cuts.

MD: 10,470 ′
TVD: 6,188.51 ′
Inclination: 89.72 °
Azimuth: 179.86 °

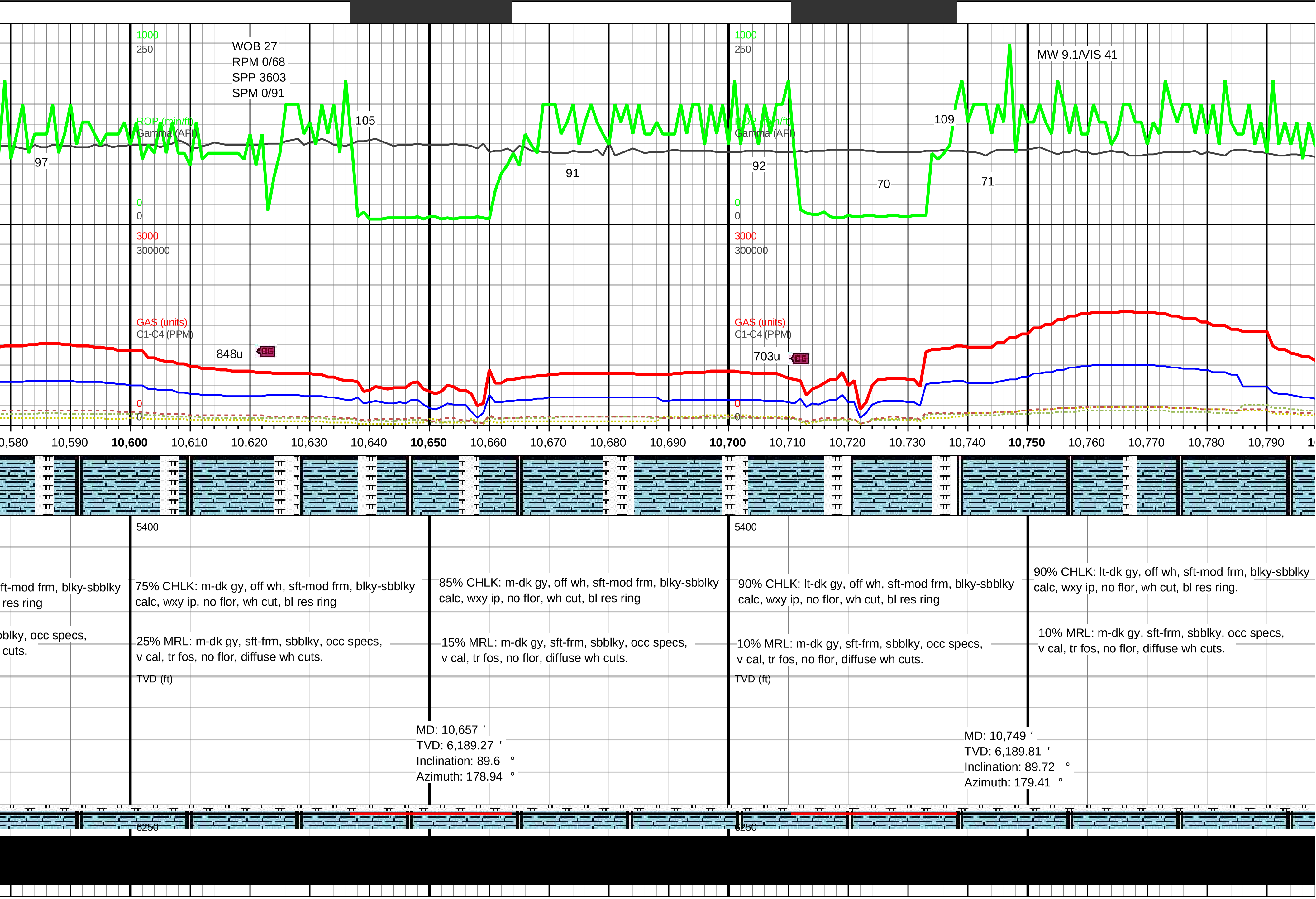
80% CHLK: m-dk gy, off wh, sft-mod frm, blky-sbblky calc, wxy ip, no flor, wh cut, bl res ring

20% MRL: m-dk gy, sft-frm, sbblky, occ specs, v cal, tr fos, no flor, diffuse wh cuts.

75% CHLK: m-dk gy, off wh, s
calc, wxy ip, no flor, wh cut, bl

25% MRL: m-dk gy, sft-frm, sb
v cal, tr fos, no flor, diffuse wh

MD: 10,563 ′
TVD: 6,188.84 ′
Inclination: 89.88 °
Azimuth: 178.26 °



ft-mod frm, blky-sbblky
res ring

blky, occ specs,
cuts.

75% CHLK: m-dk gy, off wh, sft-mod frm, blky-sbblky calc, wxy ip, no flor, wh cut, bl res ring

25% MRL: m-dk gy, sft-frm, sbblky, occ specs, v cal, tr fos, no flor, diffuse wh cuts.

85% CHLK: m-dk gy, off wh, sft-mod frm, blky-sbblky calc, wxy ip, no flor, wh cut, bl res ring

15% MRL: m-dk gy, sft-frm, sbblky, occ specs, v cal, tr fos, no flor, diffuse wh cuts.

MD: 10,657 ʹ
TVD: 6,189.27 ʹ
Inclination: 89.6 °
Azimuth: 178.94 °

90% CHLK: lt-dk gy, off wh, sft-mod frm, blky-sbblky calc, wxy ip, no flor, wh cut, bl res ring

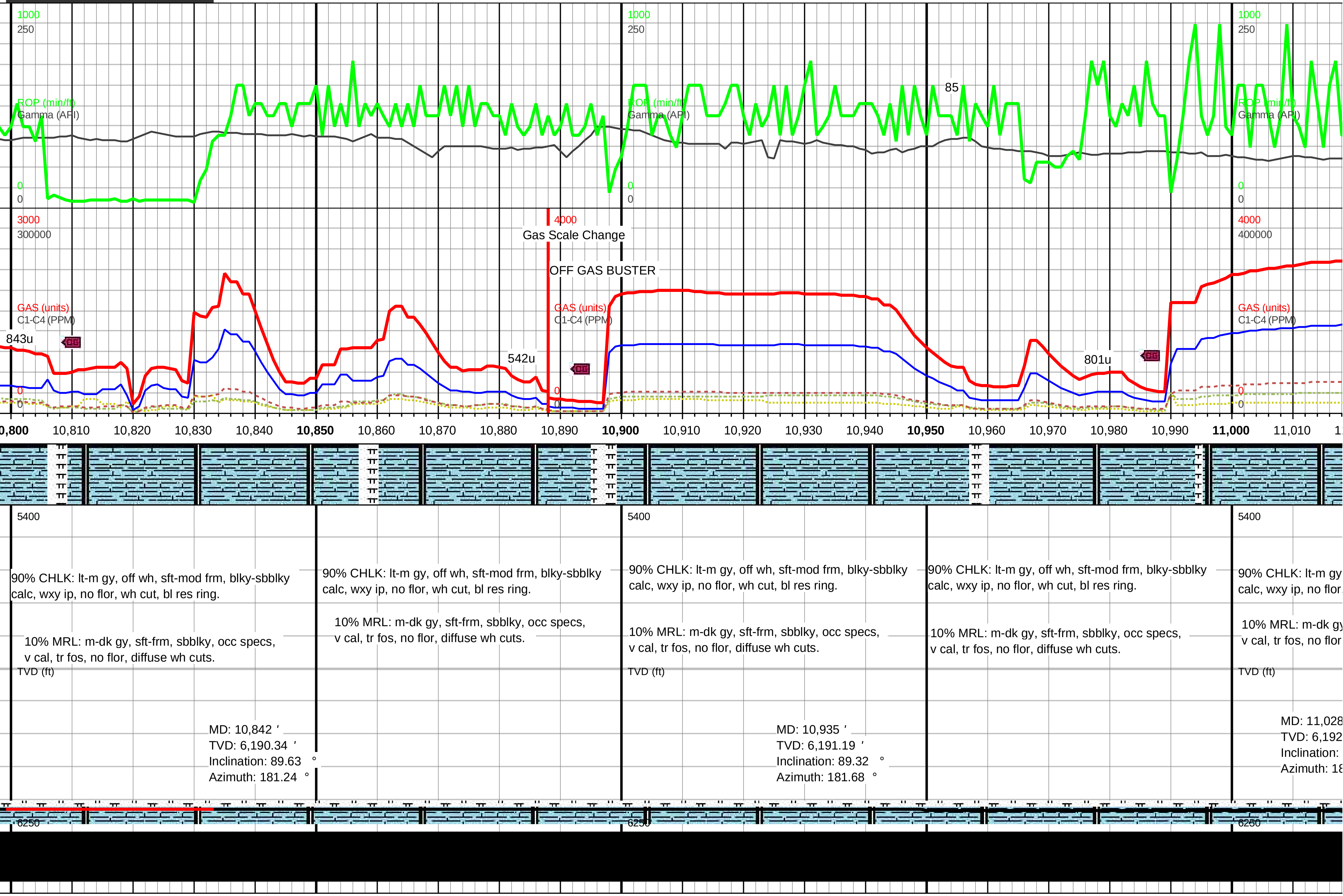
10% MRL: m-dk gy, sft-frm, sbblky, occ specs, v cal, tr fos, no flor, diffuse wh cuts.

90% CHLK: lt-dk gy, off wh, sft-mod frm, blky-sbblky calc, wxy ip, no flor, wh cut, bl res ring.

10% MRL: m-dk gy, sft-frm, sbblky, occ specs, v cal, tr fos, no flor, diffuse wh cuts.

MD: 10,749 ʹ
TVD: 6,189.81 ʹ
Inclination: 89.72 °
Azimuth: 179.41 °

[redacted]



90% CHLK: lt-m gy, off wh, sft-mod frm, blky-sbblky calc, wxy ip, no flor, wh cut, bl res ring.

10% MRL: m-dk gy, sft-frm, sbblky, occ specs, v cal, tr fos, no flor, diffuse wh cuts.

MD: 10,842 ′
TVD: 6,190.34 ′
Inclination: 89.63 °
Azimuth: 181.24 °

90% CHLK: lt-m gy, off wh, sft-mod frm, blky-sbblky calc, wxy ip, no flor, wh cut, bl res ring.

10% MRL: m-dk gy, sft-frm, sbblky, occ specs, v cal, tr fos, no flor, diffuse wh cuts.

90% CHLK: lt-m gy, off wh, sft-mod frm, blky-sbblky calc, wxy ip, no flor, wh cut, bl res ring.

10% MRL: m-dk gy, sft-frm, sbblky, occ specs, v cal, tr fos, no flor, diffuse wh cuts.

MD: 10,935 ′
TVD: 6,191.19 ′
Inclination: 89.32 °
Azimuth: 181.68 °

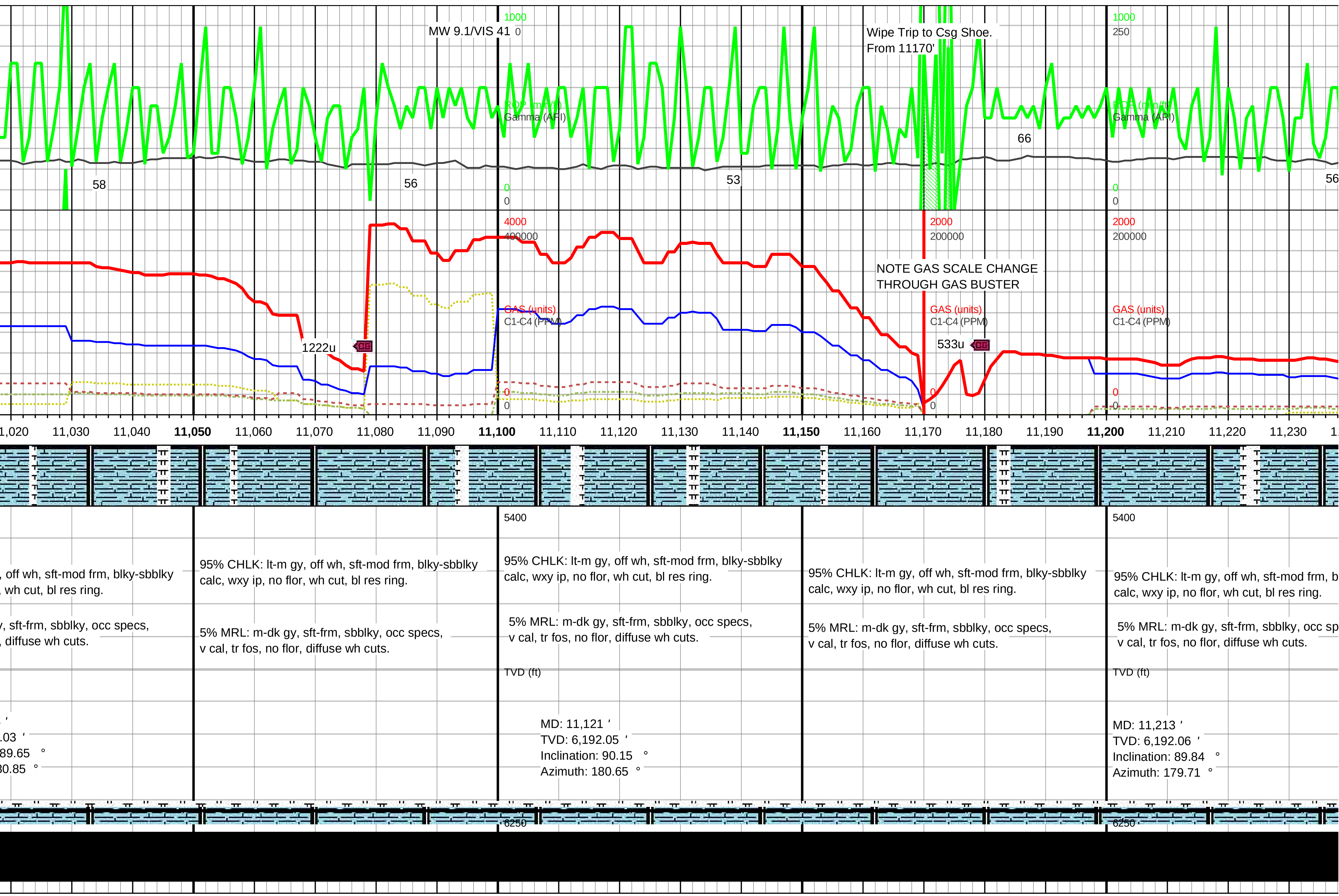
90% CHLK: lt-m gy, off wh, sft-mod frm, blky-sbblky calc, wxy ip, no flor, wh cut, bl res ring.

10% MRL: m-dk gy, sft-frm, sbblky, occ specs, v cal, tr fos, no flor, diffuse wh cuts.

90% CHLK: lt-m gy calc, wxy ip, no flor

10% MRL: m-dk gy v cal, tr fos, no flor

MD: 11,028
TVD: 6,192
Inclination:
Azimuth: 18



, off wh, sft-mod frm, blky-sbblky
, wh cut, bl res ring.

y, sft-frm, sbblky, occ specs,
, diffuse wh cuts.

'
.03 '
89.65 °
30.85 °

95% CHLK: lt-m gy, off wh, sft-mod frm, blky-sbblky calc, wxy ip, no flor, wh cut, bl res ring.

5% MRL: m-dk gy, sft-frm, sbblky, occ specs, v cal, tr fos, no flor, diffuse wh cuts.

95% CHLK: lt-m gy, off wh, sft-mod frm, blky-sbblky calc, wxy ip, no flor, wh cut, bl res ring.

5% MRL: m-dk gy, sft-frm, sbblky, occ specs, v cal, tr fos, no flor, diffuse wh cuts.

MD: 11,121 '
TVD: 6,192.05 '
Inclination: 90.15 °
Azimuth: 180.65 °

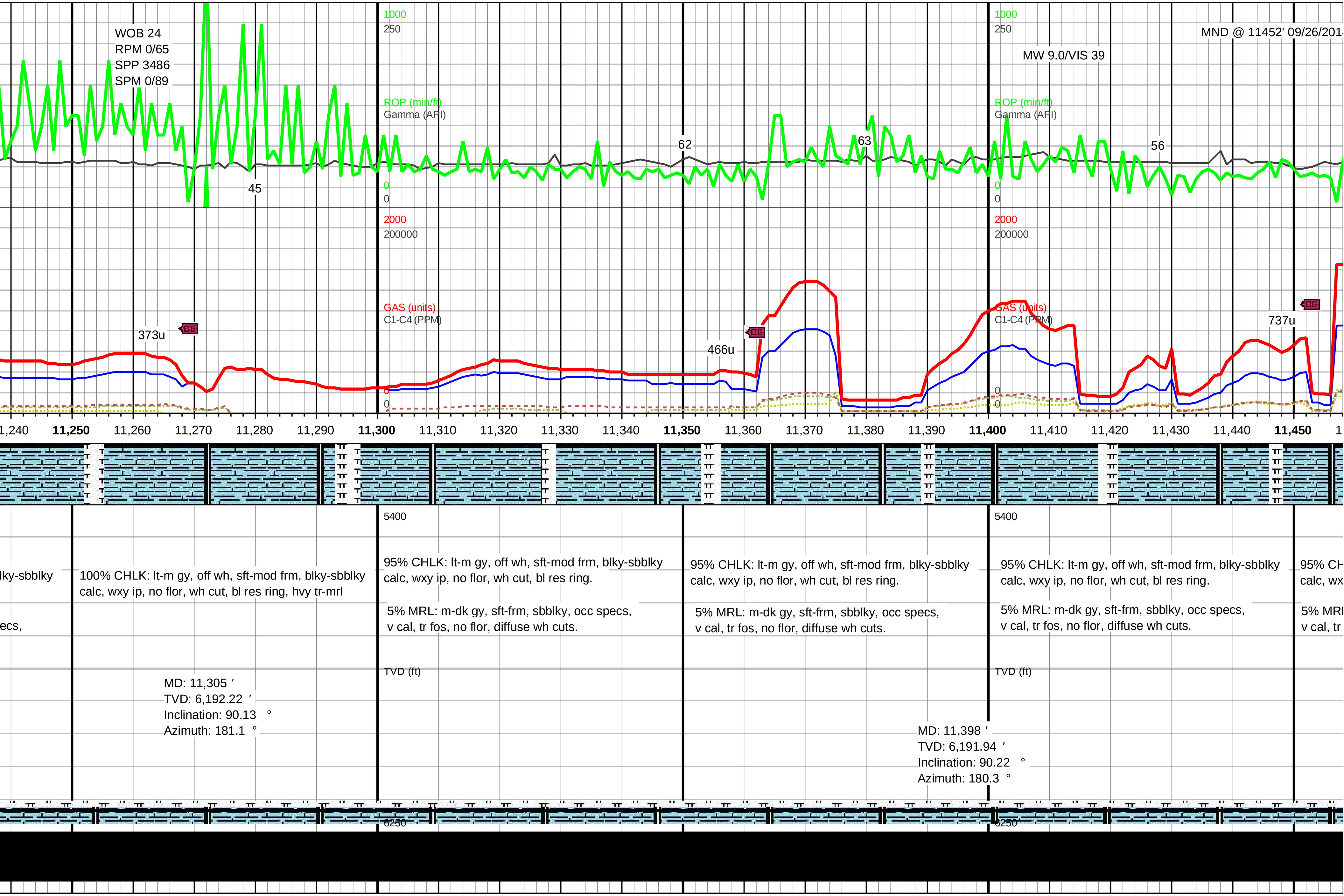
95% CHLK: lt-m gy, off wh, sft-mod frm, blky-sbblky calc, wxy ip, no flor, wh cut, bl res ring.

5% MRL: m-dk gy, sft-frm, sbblky, occ specs, v cal, tr fos, no flor, diffuse wh cuts.

95% CHLK: lt-m gy, off wh, sft-mod frm, b
calc, wxy ip, no flor, wh cut, bl res ring.

5% MRL: m-dk gy, sft-frm, sbblky, occ sp
v cal, tr fos, no flor, diffuse wh cuts.

MD: 11,213 '
TVD: 6,192.06 '
Inclination: 89.84 °
Azimuth: 179.71 °



lky-sbblky

ecs,

100% CHLK: lt-m gy, off wh, sft-mod frm, blky-sbblky calc, wxy ip, no flor, wh cut, bl res ring, hvy tr-mrl

MD: 11,305 ′
TVD: 6,192.22 ′
Inclination: 90.13 °
Azimuth: 181.1 °

95% CHLK: lt-m gy, off wh, sft-mod frm, blky-sbblky calc, wxy ip, no flor, wh cut, bl res ring.

5% MRL: m-dk gy, sft-frm, sbblky, occ specs, v cal, tr fos, no flor, diffuse wh cuts.

95% CHLK: lt-m gy, off wh, sft-mod frm, blky-sbblky calc, wxy ip, no flor, wh cut, bl res ring.

5% MRL: m-dk gy, sft-frm, sbblky, occ specs, v cal, tr fos, no flor, diffuse wh cuts.

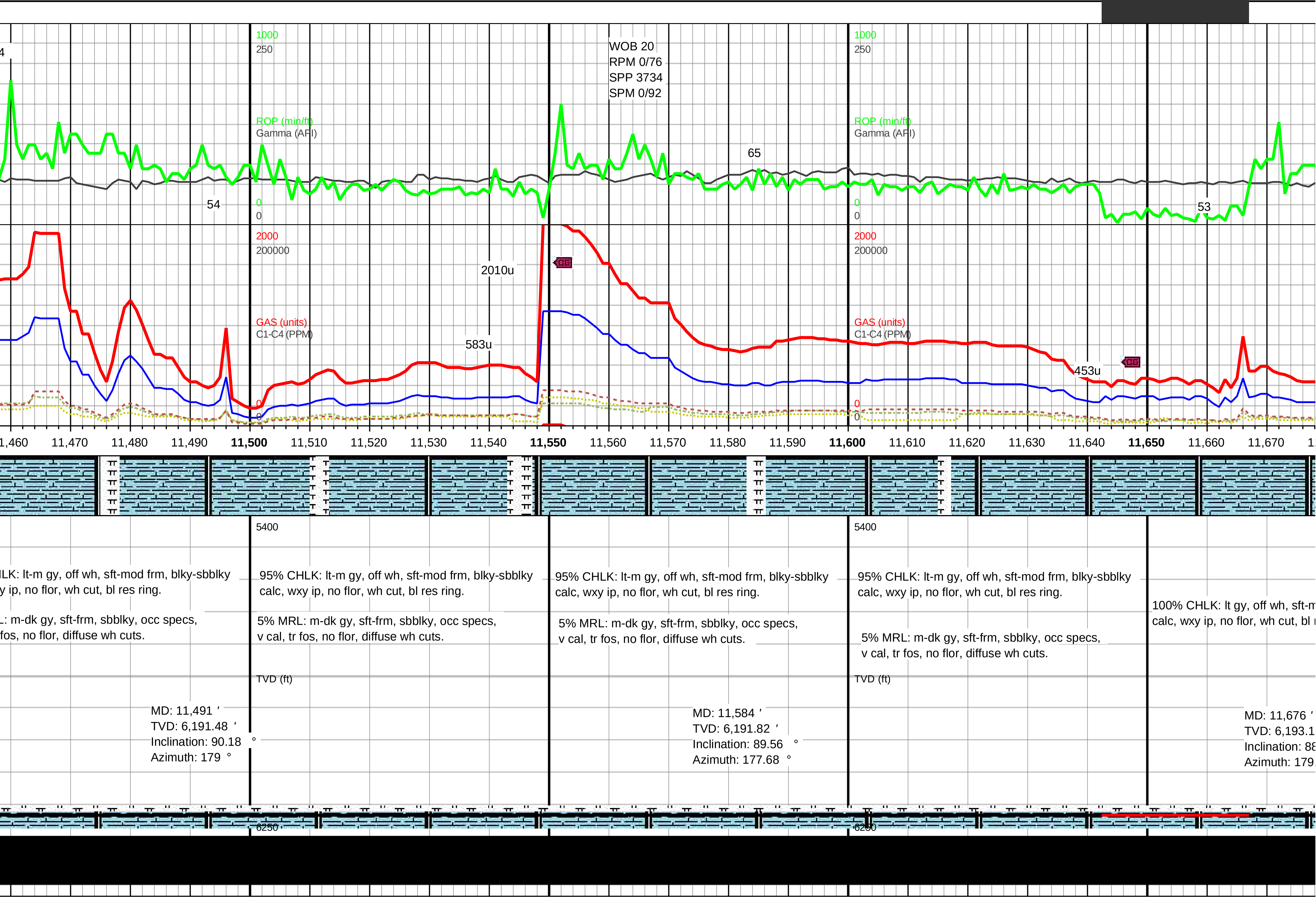
MD: 11,398 ′
TVD: 6,191.94 ′
Inclination: 90.22 °
Azimuth: 180.3 °

95% CHLK: lt-m gy, off wh, sft-mod frm, blky-sbblky calc, wxy ip, no flor, wh cut, bl res ring.

5% MRL: m-dk gy, sft-frm, sbblky, occ specs, v cal, tr fos, no flor, diffuse wh cuts.

95% CH
calc, wx

5% MRL
v cal, tr



LK: lt-m gy, off wh, sft-mod frm, blky-sbblky
y ip, no flor, wh cut, bl res ring.

.: m-dk gy, sft-frm, sbblky, occ specs,
fos, no flor, diffuse wh cuts.

MD: 11,491 ʹ
TVD: 6,191.48 ʹ
Inclination: 90.18 °
Azimuth: 179 °

95% CHLK: lt-m gy, off wh, sft-mod frm, blky-sbblky calc, wxy ip, no flor, wh cut, bl res ring.

5% MRL: m-dk gy, sft-frm, sbblky, occ specs, v cal, tr fos, no flor, diffuse wh cuts.

95% CHLK: lt-m gy, off wh, sft-mod frm, blky-sbblky calc, wxy ip, no flor, wh cut, bl res ring.

5% MRL: m-dk gy, sft-frm, sbblky, occ specs, v cal, tr fos, no flor, diffuse wh cuts.

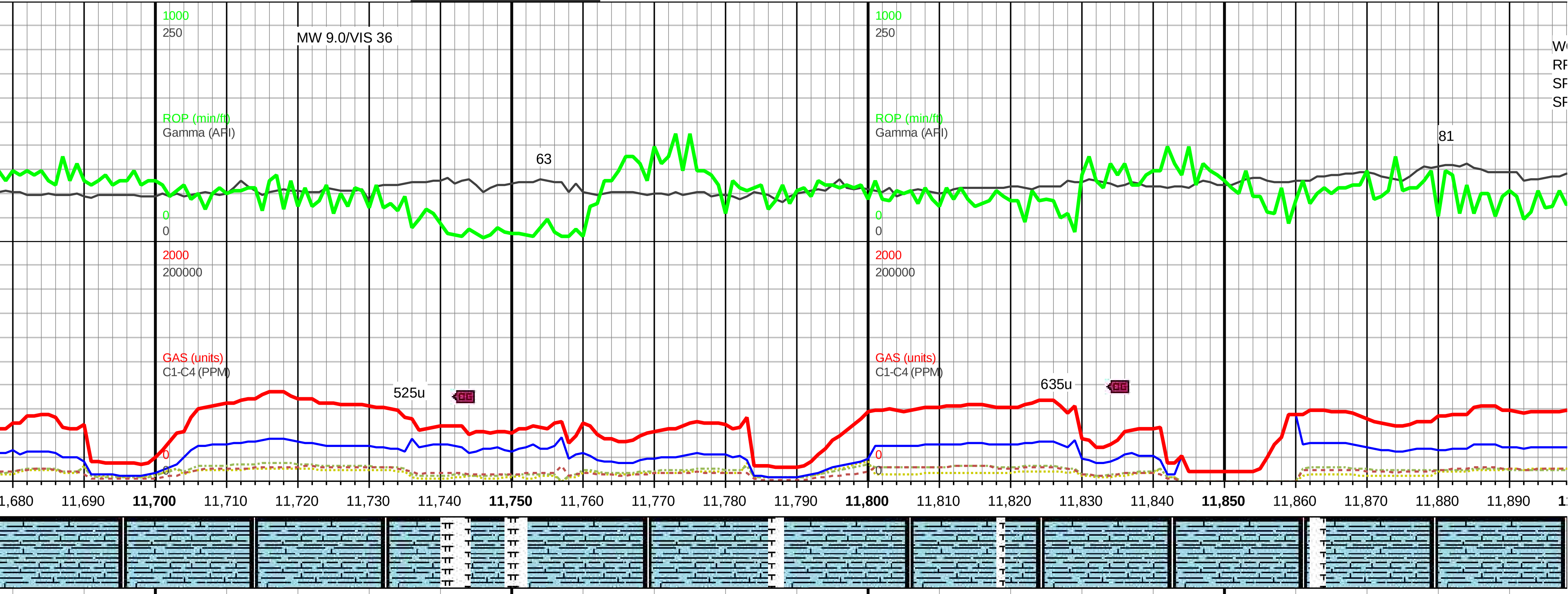
MD: 11,584 ʹ
TVD: 6,191.82 ʹ
Inclination: 89.56 °
Azimuth: 177.68 °

95% CHLK: lt-m gy, off wh, sft-mod frm, blky-sbblky calc, wxy ip, no flor, wh cut, bl res ring.

5% MRL: m-dk gy, sft-frm, sbblky, occ specs, v cal, tr fos, no flor, diffuse wh cuts.

100% CHLK: lt gy, off wh, sft-m
calc, wxy ip, no flor, wh cut, bl

MD: 11,676 ʹ
TVD: 6,193.1
Inclination: 8
Azimuth: 179



5400

od frm, blky-sbblky
res ring.

100% CHLK: lt gy, off wh, sft-mod frm, blky-sbblky calc, wxy ip, no flor, wh cut, bl res ring.

95% CHLK: lt gy, off wh, sft-mod frm, blky-sbblky calc, wxy ip, no flor, wh cut, bl res ring.

5% MRL: m-dk gy, sft-frm, sbblky, occ specs, v cal, tr fos, no flor, diffuse wh cuts.

5400

95% CHLK: lt gy, off wh, sft-mod frm, blky-sbblky calc, wxy ip, no flor, wh cut, bl res ring.

5% MRL: m-dk gy, sft-frm, sbblky, occ specs, v cal, tr fos, no flor, diffuse wh cuts.

95% CHLK: lt gy, off wh, sft-mod frm, blky-sbblky calc, wxy ip, no flor, wh cut, bl res ring.

5% MRL: m-dk gy, sft-frm, sbblky, occ specs, v cal, tr fos, no flor, diffuse wh cuts.

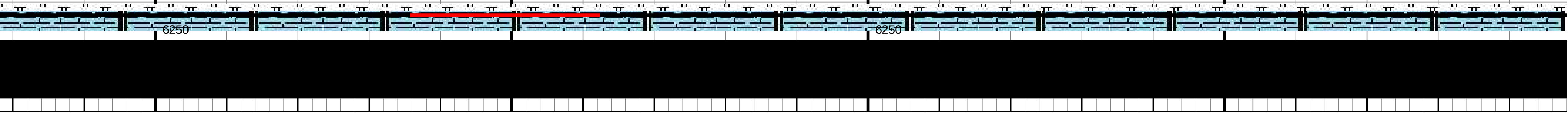
TVD (ft)

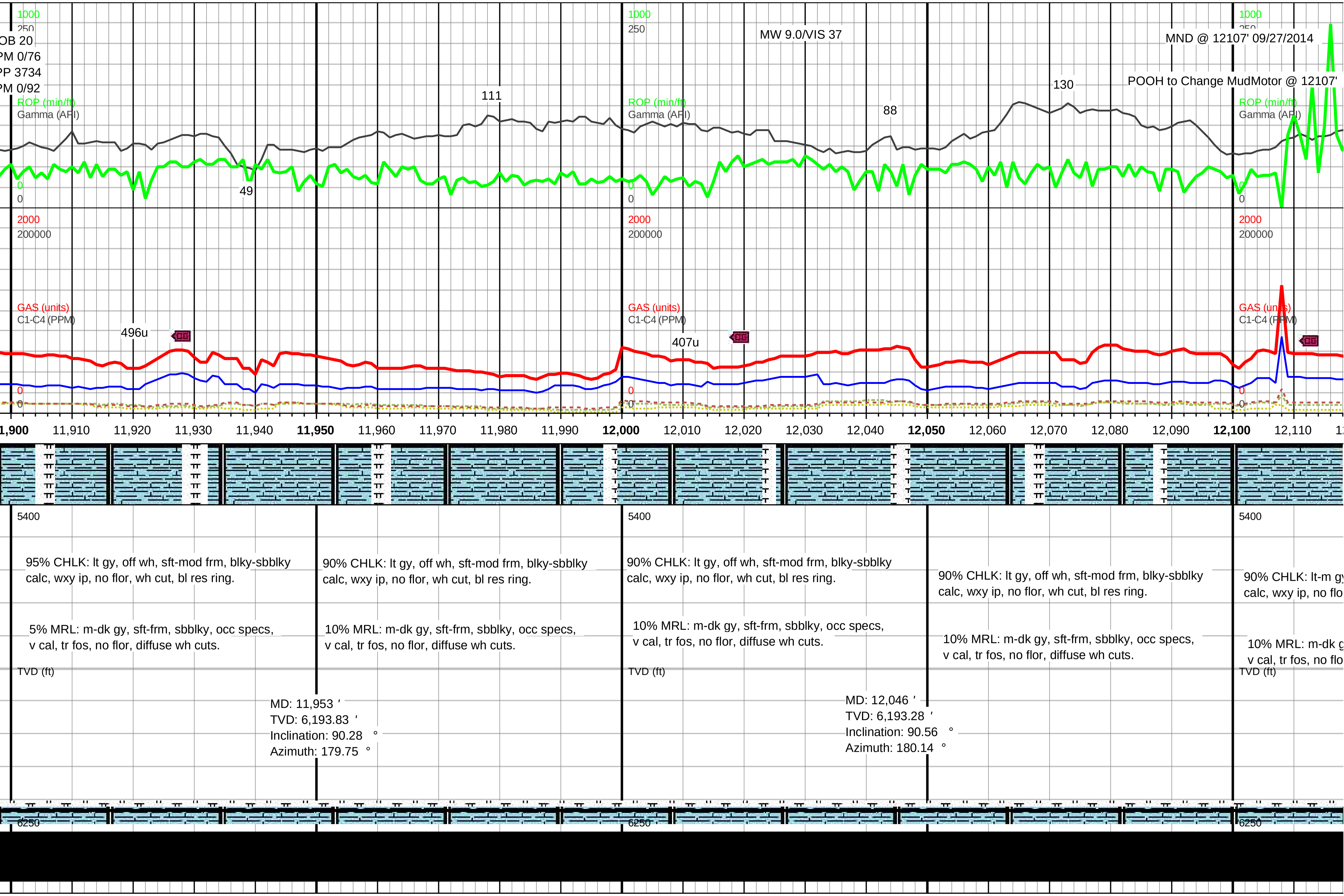
TVD (ft)

5 ′
.79 °
.24 °

MD: 11,768 ′
TVD: 6,194.27 ′
Inclination: 89.81 °
Azimuth: 180.36 °

MD: 11,862 ′
TVD: 6,194.31 ′
Inclination: 90.15 °
Azimuth: 181.05 °





95% CHLK: lt gy, off wh, sft-mod frm, blky-sbblky calc, wxy ip, no flor, wh cut, bl res ring.

5% MRL: m-dk gy, sft-frm, sbblky, occ specs, v cal, tr fos, no flor, diffuse wh cuts.

MD: 11,953 '
TVD: 6,193.83 '
Inclination: 90.28 °
Azimuth: 179.75 °

90% CHLK: lt gy, off wh, sft-mod frm, blky-sbblky calc, wxy ip, no flor, wh cut, bl res ring.

10% MRL: m-dk gy, sft-frm, sbblky, occ specs, v cal, tr fos, no flor, diffuse wh cuts.

90% CHLK: lt gy, off wh, sft-mod frm, blky-sbblky calc, wxy ip, no flor, wh cut, bl res ring.

10% MRL: m-dk gy, sft-frm, sbblky, occ specs, v cal, tr fos, no flor, diffuse wh cuts.

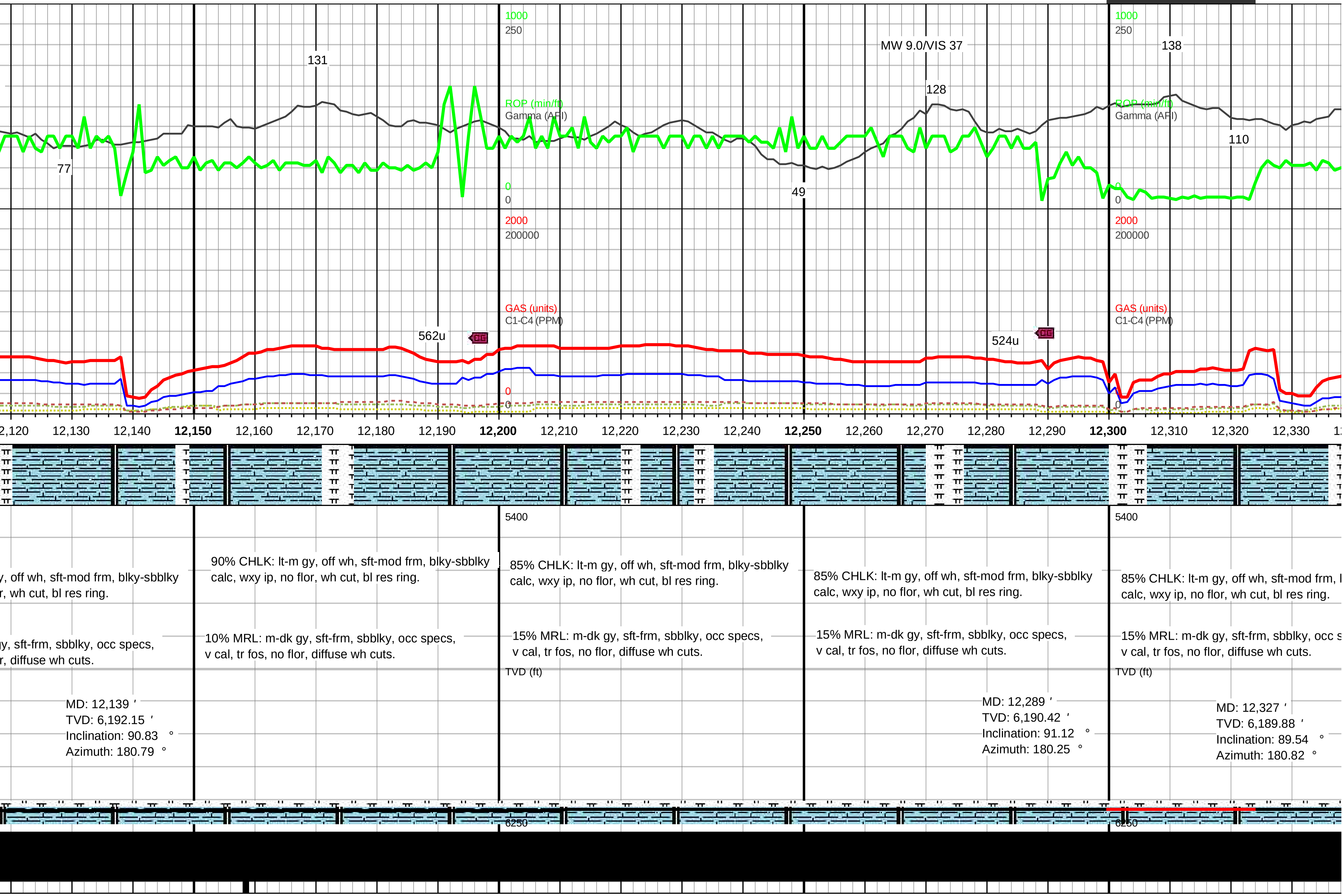
MD: 12,046 '
TVD: 6,193.28 '
Inclination: 90.56 °
Azimuth: 180.14 °

90% CHLK: lt gy, off wh, sft-mod frm, blky-sbblky calc, wxy ip, no flor, wh cut, bl res ring.

10% MRL: m-dk gy, sft-frm, sbblky, occ specs, v cal, tr fos, no flor, diffuse wh cuts.

90% CHLK: lt-m g
calc, wxy ip, no flo

10% MRL: m-dk g
v cal, tr fos, no flo



y, off wh, sft-mod frm, blky-sbblky
r, wh cut, bl res ring.

y, sft-frm, sbblky, occ specs,
r, diffuse wh cuts.

MD: 12,139 ′
TVD: 6,192.15 ′
Inclination: 90.83 °
Azimuth: 180.79 °

90% CHLK: lt-m gy, off wh, sft-mod frm, blky-sbblky calc, wxy ip, no flor, wh cut, bl res ring.

10% MRL: m-dk gy, sft-frm, sbblky, occ specs, v cal, tr fos, no flor, diffuse wh cuts.

85% CHLK: lt-m gy, off wh, sft-mod frm, blky-sbblky calc, wxy ip, no flor, wh cut, bl res ring.

15% MRL: m-dk gy, sft-frm, sbblky, occ specs, v cal, tr fos, no flor, diffuse wh cuts.

85% CHLK: lt-m gy, off wh, sft-mod frm, blky-sbblky calc, wxy ip, no flor, wh cut, bl res ring.

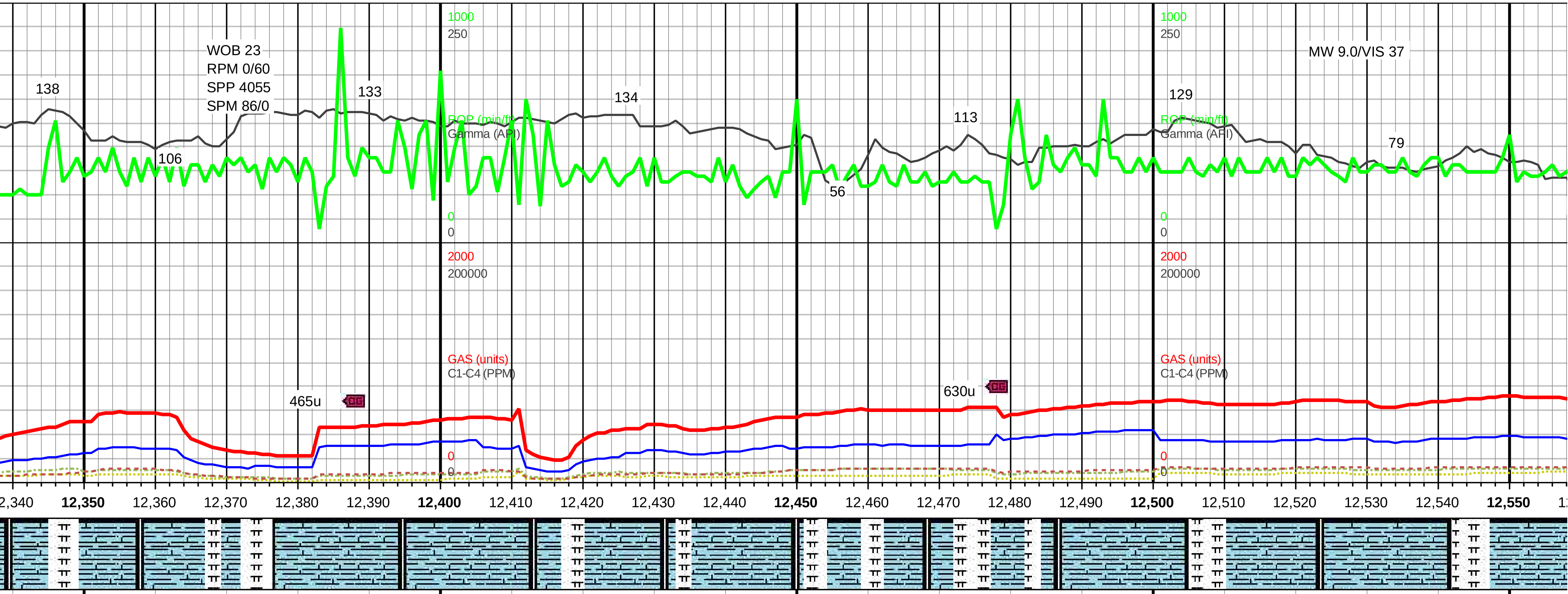
15% MRL: m-dk gy, sft-frm, sbblky, occ specs, v cal, tr fos, no flor, diffuse wh cuts.

MD: 12,289 ′
TVD: 6,190.42 ′
Inclination: 91.12 °
Azimuth: 180.25 °

85% CHLK: lt-m gy, off wh, sft-mod frm, l
calc, wxy ip, no flor, wh cut, bl res ring.

15% MRL: m-dk gy, sft-frm, sbblky, occ s
v cal, tr fos, no flor, diffuse wh cuts.

MD: 12,327 ′
TVD: 6,189.88 ′
Inclination: 89.54 °
Azimuth: 180.82 °



blky-sbblky

specs,

85% CHLK: m-dk gy, off wh, sft-mod frm, blky-sbblky calc, wxy ip, no flor, wh cut, bl res ring.

15% MRL: m-dk gy, sft-frm, sbblky, occ specs, v cal, tr fos, no flor, diffuse wh cuts.

75% CHLK: m-dk gy, off wh, sft-mod frm, blky-sbblky calc, wxy ip, no flor, wh cut, bl res ring.

25% MRL: m-dk gy, sft-frm, sbblky, occ specs, v cal, tr fos, no flor, diffuse wh cuts.

TVD (ft)

MD: 12,420 ʹ
TVD: 6,190.8 ʹ
Inclination: 89.32 °
Azimuth: 180.52 °

80% CHLK: m-dk gy, off wh, sft-mod frm, blky-sbblky calc, wxy ip, no flor, wh cut, bl res ring.

20% MRL: m-dk gy, sft-frm, sbblky, occ specs, v cal, tr fos, no flor, diffuse wh cuts.

90% CHLK: lt-dk gy, off wh, sft-mod frm, blky-sbblky calc, wxy ip, no flor, wh cut, bl res ring.

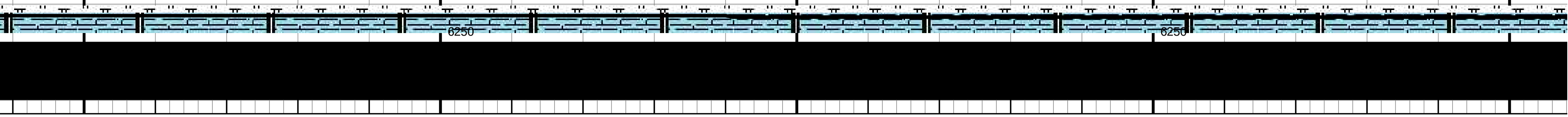
10% MRL: m-dk gy, sft-frm, sbblky, occ specs, v cal, tr fos, no flor, diffuse wh cuts.

TVD (ft)

MD: 12,512 ʹ
TVD: 6,193.16 ʹ
Inclination: 87.74 °
Azimuth: 80.82 °

90% CH
calc, wx

10% M
v cal, tr



HLK: lt-dk gy, off wh, sft-mod frm, blky-sbblky
xy ip, no flor, wh cut, bl res ring.

RL: m-dk gy, sft-frm, sbblky, occ specs,
fos, no flor, diffuse wh cuts.

70% CHLK: m-dk gy, off wh, sft-mod frm, blky-sbblky
calc, wxy ip, no flor, wh cut, bl res ring.

30% MRL: m-dk gy, sft-frm, sbblky, occ specs,
v cal, tr fos, no flor, diffuse wh cuts.

MD: 12,605 ʹ
TVD: 6,195.78 ʹ
Inclination: 89.2 °
Azimuth: 181.49 °

75% CHLK: m-dk gy, off wh, sft-mod frm, blky-sbblky
calc, wxy ip, no flor, wh cut, bl res ring.

25% MRL: m-dk gy, sft-frm, sbblky, occ specs,
v cal, tr fos, no flor, diffuse wh cuts.

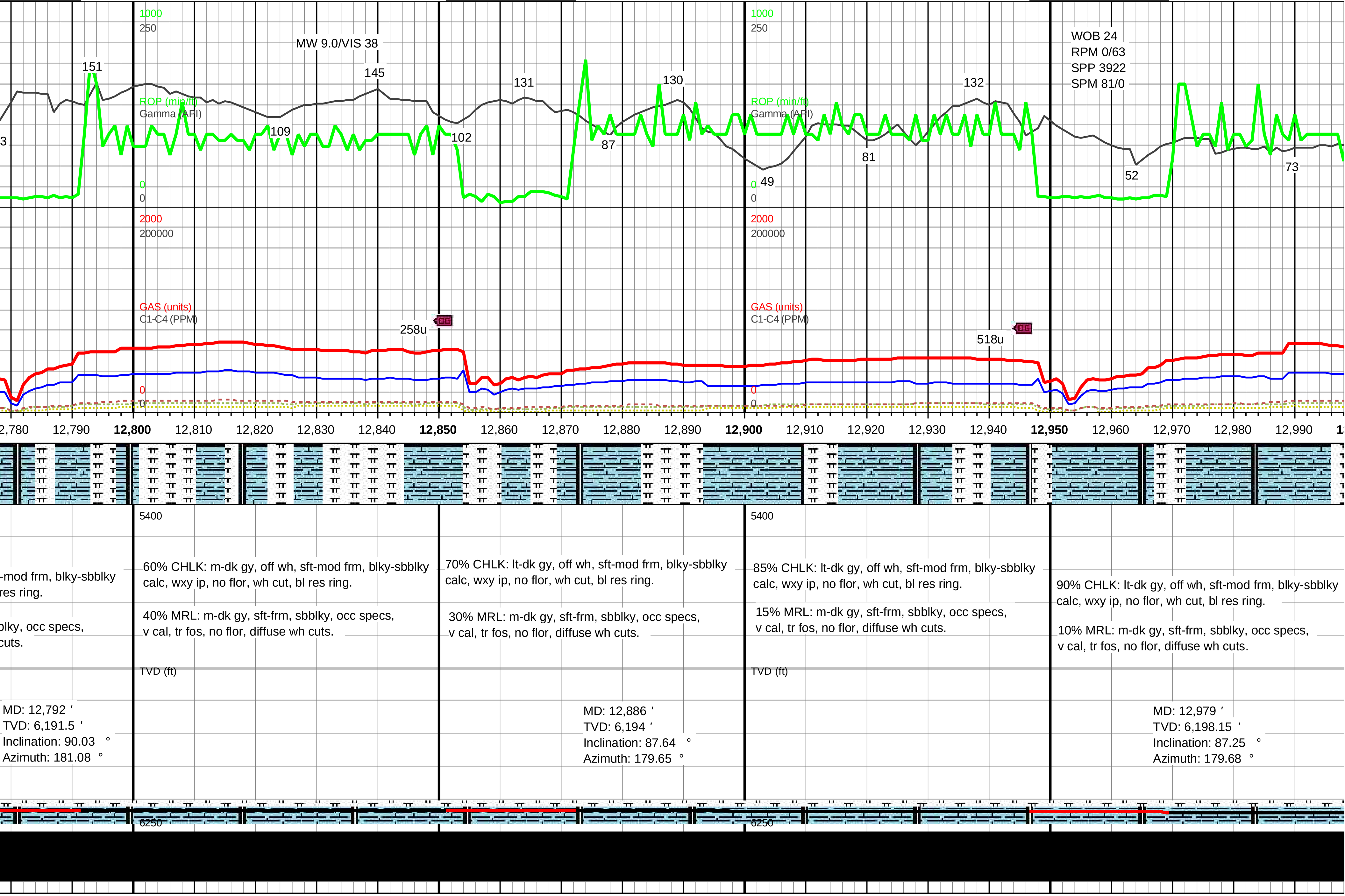
MD: 12,699 ʹ
TVD: 6,194.26 ʹ
Inclination: 92.65 °
Azimuth: 182.74 °

70% CHLK: m-dk gy, off wh, sft-mod frm, blky-sbblky
calc, wxy ip, no flor, wh cut, bl res ring.

30% MRL: m-dk gy, sft-frm, sbblky, occ specs,
v cal, tr fos, no flor, diffuse wh cuts.

50% CHLK: lt-dk gy, off wh, sft
calc, wxy ip, no flor, wh cut, bl

50% MRL: m-dk gy, sft-frm, sbl
v cal, tr fos, no flor, diffuse wh



-mod frm, blky-sbblky
res ring.

blky, occ specs,
cuts.

60% CHLK: m-dk gy, off wh, sft-mod frm, blky-sbblky calc, wxy ip, no flor, wh cut, bl res ring.

40% MRL: m-dk gy, sft-frm, sbblky, occ specs, v cal, tr fos, no flor, diffuse wh cuts.

70% CHLK: lt-dk gy, off wh, sft-mod frm, blky-sbblky calc, wxy ip, no flor, wh cut, bl res ring.

30% MRL: m-dk gy, sft-frm, sbblky, occ specs, v cal, tr fos, no flor, diffuse wh cuts.

85% CHLK: lt-dk gy, off wh, sft-mod frm, blky-sbblky calc, wxy ip, no flor, wh cut, bl res ring.

15% MRL: m-dk gy, sft-frm, sbblky, occ specs, v cal, tr fos, no flor, diffuse wh cuts.

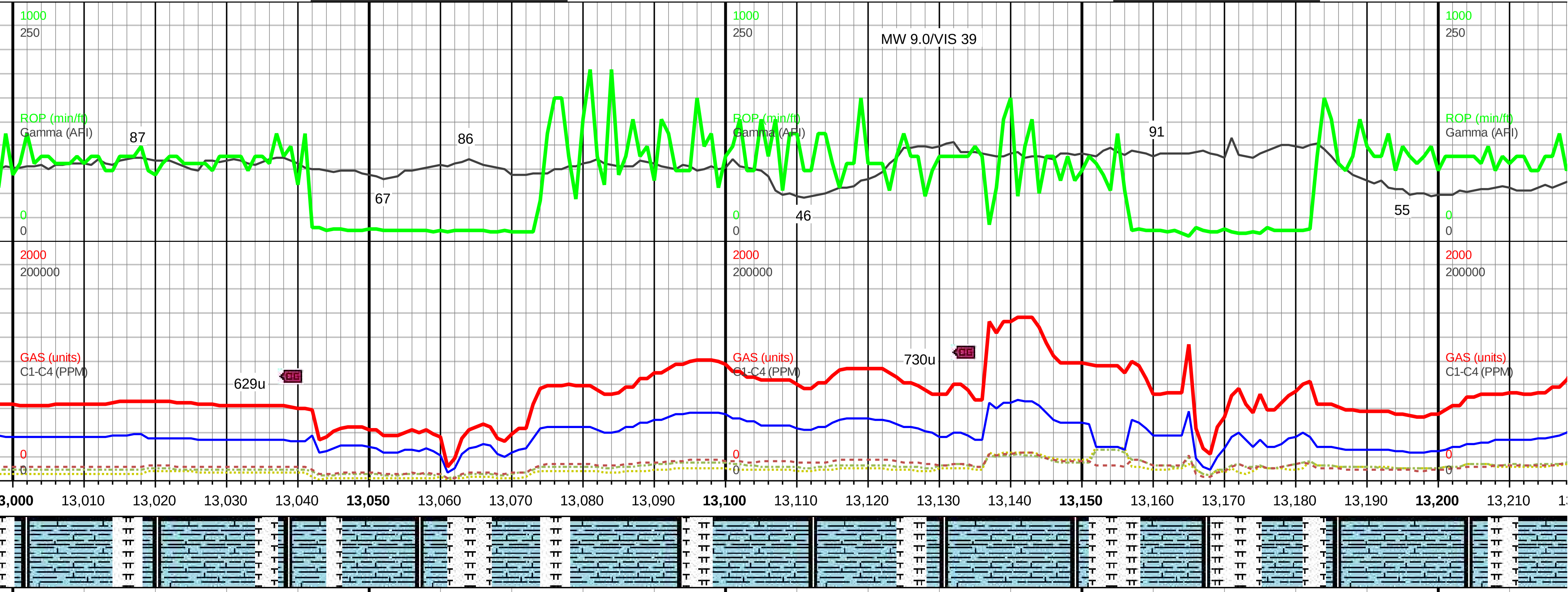
90% CHLK: lt-dk gy, off wh, sft-mod frm, blky-sbblky calc, wxy ip, no flor, wh cut, bl res ring.

10% MRL: m-dk gy, sft-frm, sbblky, occ specs, v cal, tr fos, no flor, diffuse wh cuts.

MD: 12,792 ′
TVD: 6,191.5 ′
Inclination: 90.03 °
Azimuth: 181.08 °

MD: 12,886 ′
TVD: 6,194 ′
Inclination: 87.64 °
Azimuth: 179.65 °

MD: 12,979 ′
TVD: 6,198.15 ′
Inclination: 87.25 °
Azimuth: 179.68 °



5400

85% CHLK: lt-dk gy, off wh, sft-mod frm, blky-sbblky calc, wxy ip, no flor, wh cut, bl res ring.

15% MRL: m-dk gy, sft-frm, sbblky, occ specs, v cal, tr fos, no flor, diffuse wh cuts.

85% CHLK: lt-dk gy, off wh, sft-mod frm, blky-sbblky calc, wxy ip, no flor, wh cut, bl res ring.

15% MRL: m-dk gy, sft-frm, sbblky, occ specs, v cal, tr fos, no flor, diffuse wh cuts.

5400

95% CHLK: lt-m gy, off wh, sft-mod frm, blky-sbblky calc, wxy ip, no flor, wh cut, bl res ring.

5% MRL: m-dk gy, sft-frm, sbblky, occ specs, v cal, tr fos, no flor, diffuse wh cuts.

70% CHLK: m-dk gy, off wh, sft-mod frm, blky-sbblky calc, wxy ip, no flor, wh cut, bl res ring.

30% MRL: m-dk gy, sft-frm, sbblky, occ specs, v cal, tr fos, no flor, diffuse wh cuts.

5400

85% CHLK: lt-m gy calc, wxy ip, no flor

15% MRL: m-dk gy v cal, tr fos, no flor,

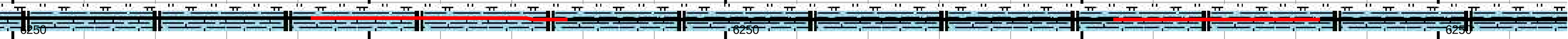
TVD (ft)

TVD (ft)

TVD (ft)

MD: 13,073 ′
TVD: 6,200.86 ′
Inclination: 89.44 °
Azimuth: 178.72 °

MD: 13,167 ′
TVD: 6,201.48 ′
Inclination: 89.81 °
Azimuth: 179.1 °



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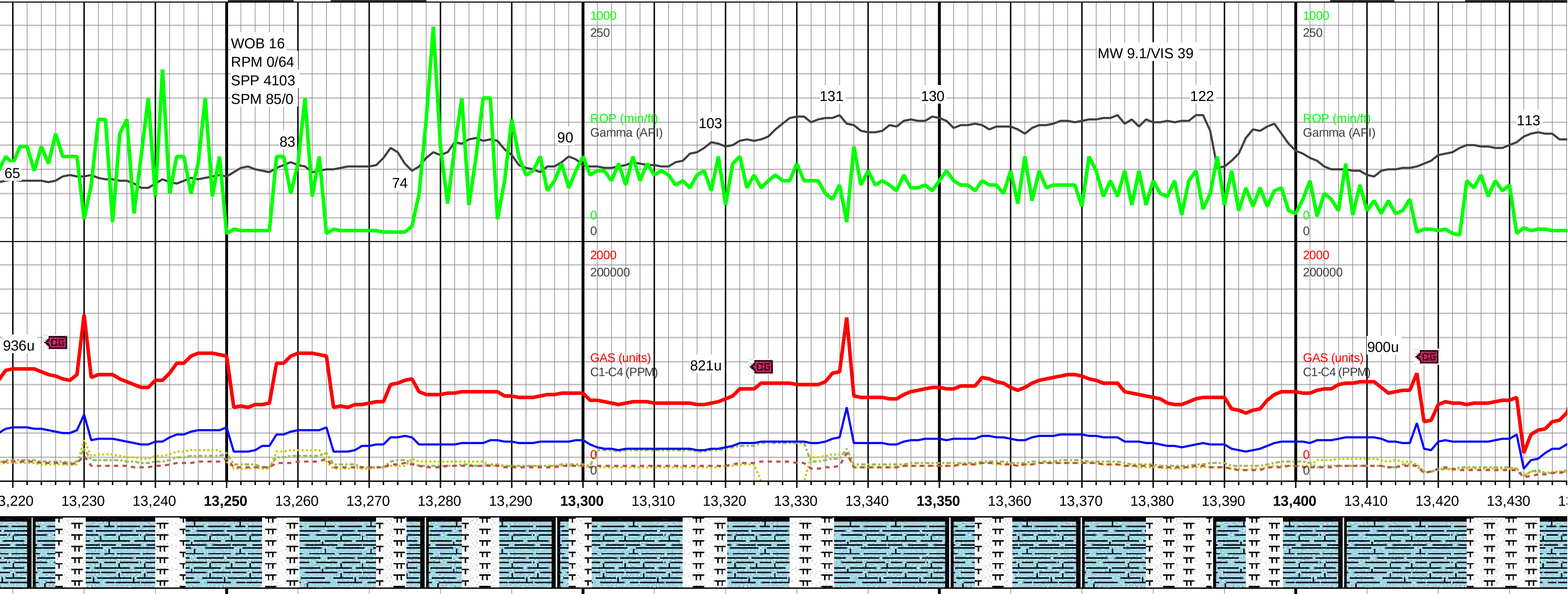


5400

, off wh, sft-mod frm, blky-sbblky
, wh cut, bl res ring.

, sft-frm, sbblky, occ specs,
diffuse wh cuts.

80% CHLK: lt-dk gy, off wh, sft-mod frm, blky-sbblky calc, wxy ip, no flor, wh cut, bl res ring.

20% MRL: m-dk gy, sft-frm, sbblky, occ specs, v cal, tr fos, no flor, diffuse wh cuts.

MD: 13,260 ′
TVD: 6,201.05 ′
Inclination: 90.72 °
Azimuth: 179.34 °

75% CHLK: lt-dk gy, off wh, sft-mod frm, blky-sbblky calc, wxy ip, no flor, wh cut, bl res ring.

25% MRL: m-dk gy, sft-frm, sbblky, occ specs, v cal, tr fos, no flor, diffuse wh cuts.

TVD (ft)

80% CHLK: m-dk gy, sft-mod frm, blky-sbblky calc, wxy ip, no flor, wh cut, bl res ring.

20% MRL: m-dk gy, sft-frm, sbblky, occ specs, v cal, tr fos, no flor, diffuse wh cuts.

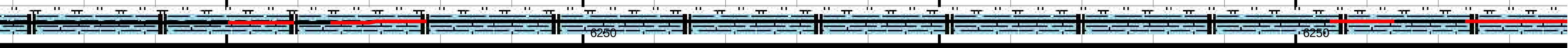
MD: 13,354 ′
TVD: 6,199.17 ′
Inclination: 91.57 °
Azimuth: 178.7 °

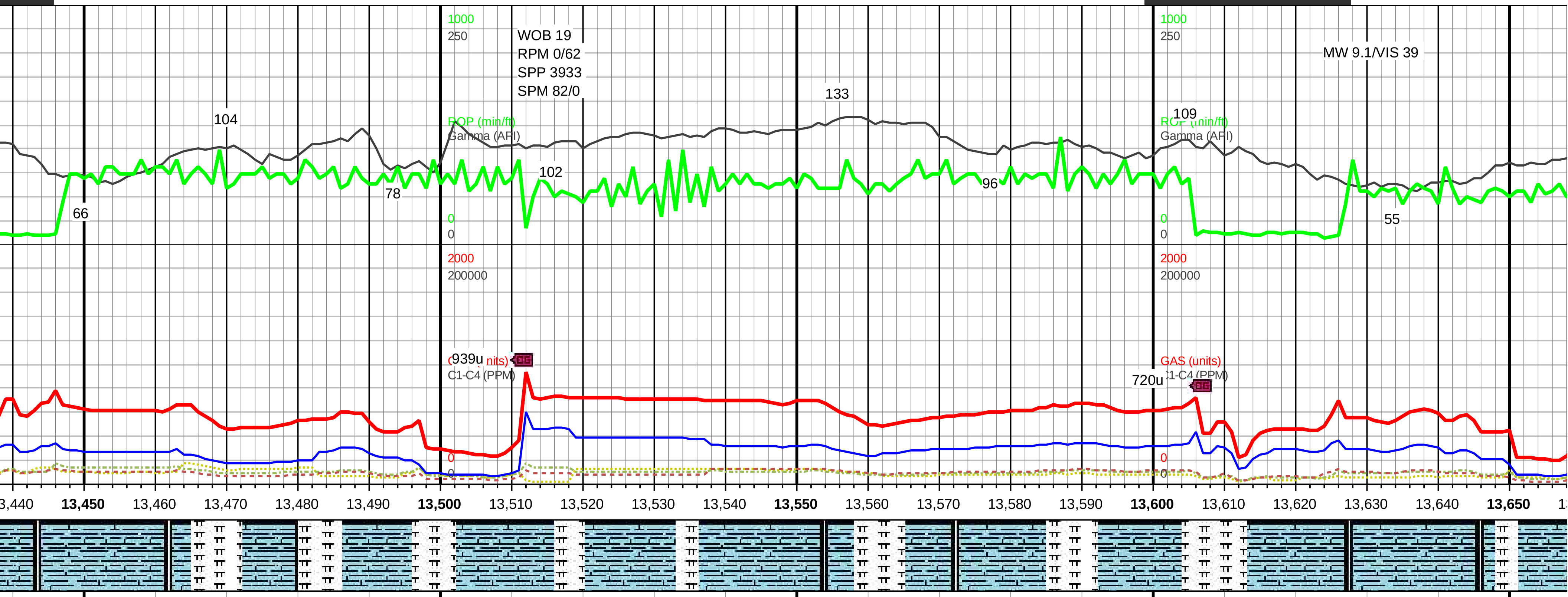
5400

80% CHLK: m-dk gy, sft-mod frm, blky-s
calc, wxy ip, no flor, wh cut, bl res ring.

20% MRL: m-dk gy, sft-frm, sbblky, occ s
v cal, tr fos, no flor, diffuse wh cuts.

TVD (ft)





bblky

specs,

80% CHLK: m-dk gy, off wh sft-mod frm, blky-sbblky calc, wxy ip, no flor, wh cut, bl res ring.

20% MRL: m-dk gy, sft-frm, sbblky, occ specs, v cal, tr fos, no flor, diffuse wh cuts.

MD: 13,449 '
TVD: 6,197.73 '
Inclination: 90.16 °
Azimuth: 178.08 °

80% CHLK: m-dk gy, sft-mod frm, blky-sbblky calc, wxy ip, no flor, wh cut, bl res ring.

20% MRL: m-dk gy, sft-frm, sbblky, occ specs, v cal, tr fos, no flor, diffuse wh cuts.

TVD (ft)

MD: 13,544 '
TVD: 6,196.86 '
Inclination: 90.89 °
Azimuth: 178.57 °

85% CHLK: m-dk gy, off wh, sft-mod frm, blky-sbblky calc, wxy ip, no flor, wh cut, bl res ring.

15% MRL: m-dk gy, sft-frm, sbblky, occ specs, v cal, tr fos, no flor, diffuse wh cuts.

85% CHLK: m-dk gy, off wh, sft-mod frm, blky-sbblky calc, wxy ip, no flor, wh cut, bl res ring.

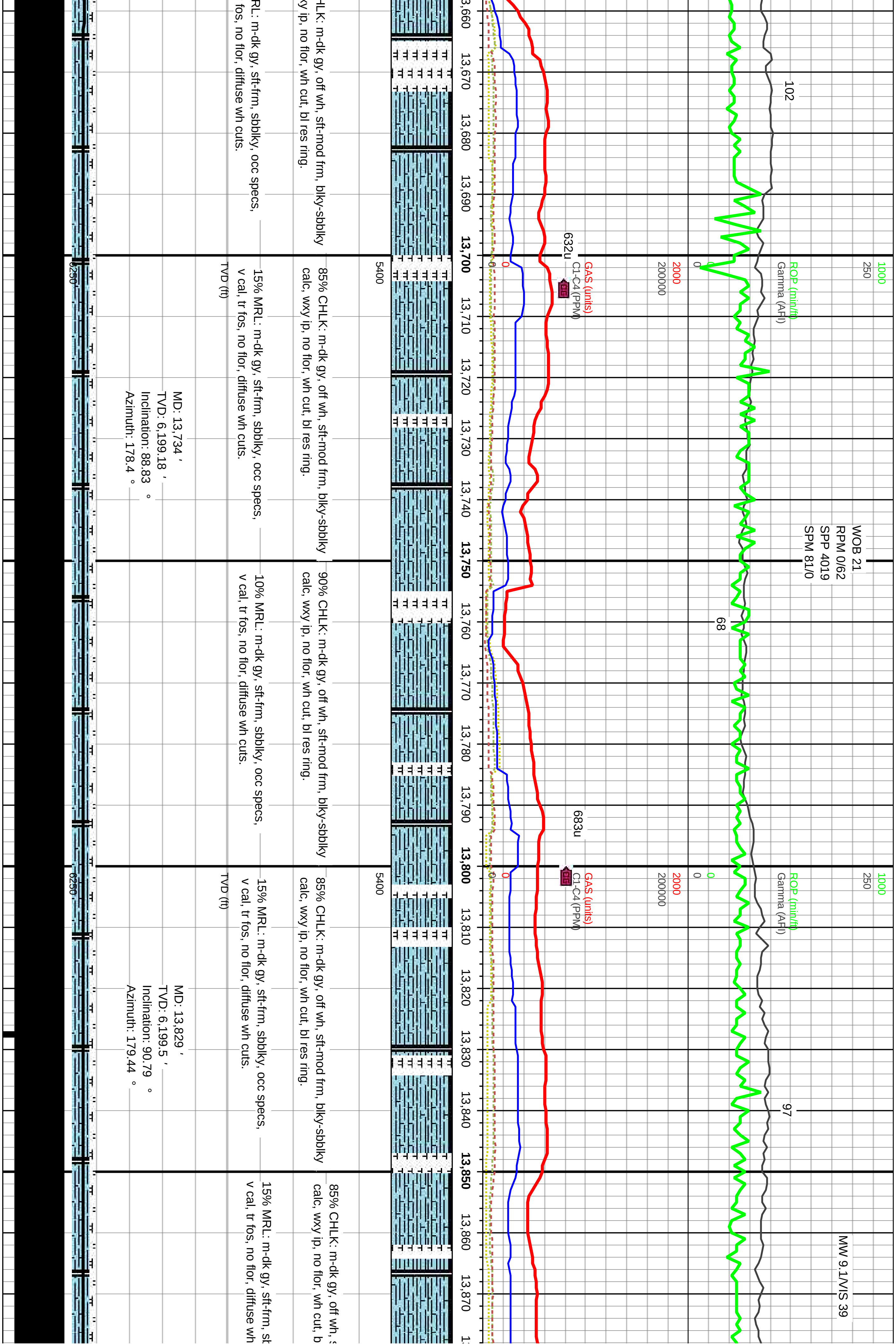
15% MRL: m-dk gy, sft-frm, sbblky, occ specs, v cal, tr fos, no flor, diffuse wh cuts.

TVD (ft)

MD: 13,639 '
TVD: 6,197.17 '
Inclination: 88.74 °
Azimuth: 178.13 °

85% CH
calc, w

15% M
v cal, tr



HLK: m-dk gy, off wh, sft-mod frm, blky-sbblky
xy ip, no flor, wh cut, bl res ring.

RL: m-dk gy, sft-frm, sbblky, occ specs,
fos, no flor, diffuse wh cuts.

85% CHLK: m-dk gy, off wh, sft-mod frm, blky-sbblky calc, wxy ip, no flor, wh cut, bl res ring.

15% MRL: m-dk gy, sft-frm, sbblky, occ specs, v cal, tr fos, no flor, diffuse wh cuts.

MD: 13,734 ’
TVD: 6,199.18 ’
Inclination: 88.83 °
Azimuth: 178.4 °

90% CHLK: m-dk gy, off wh, sft-mod frm, blky-sbblky calc, wxy ip, no flor, wh cut, bl res ring.

10% MRL: m-dk gy, sft-frm, sbblky, occ specs, v cal, tr fos, no flor, diffuse wh cuts.

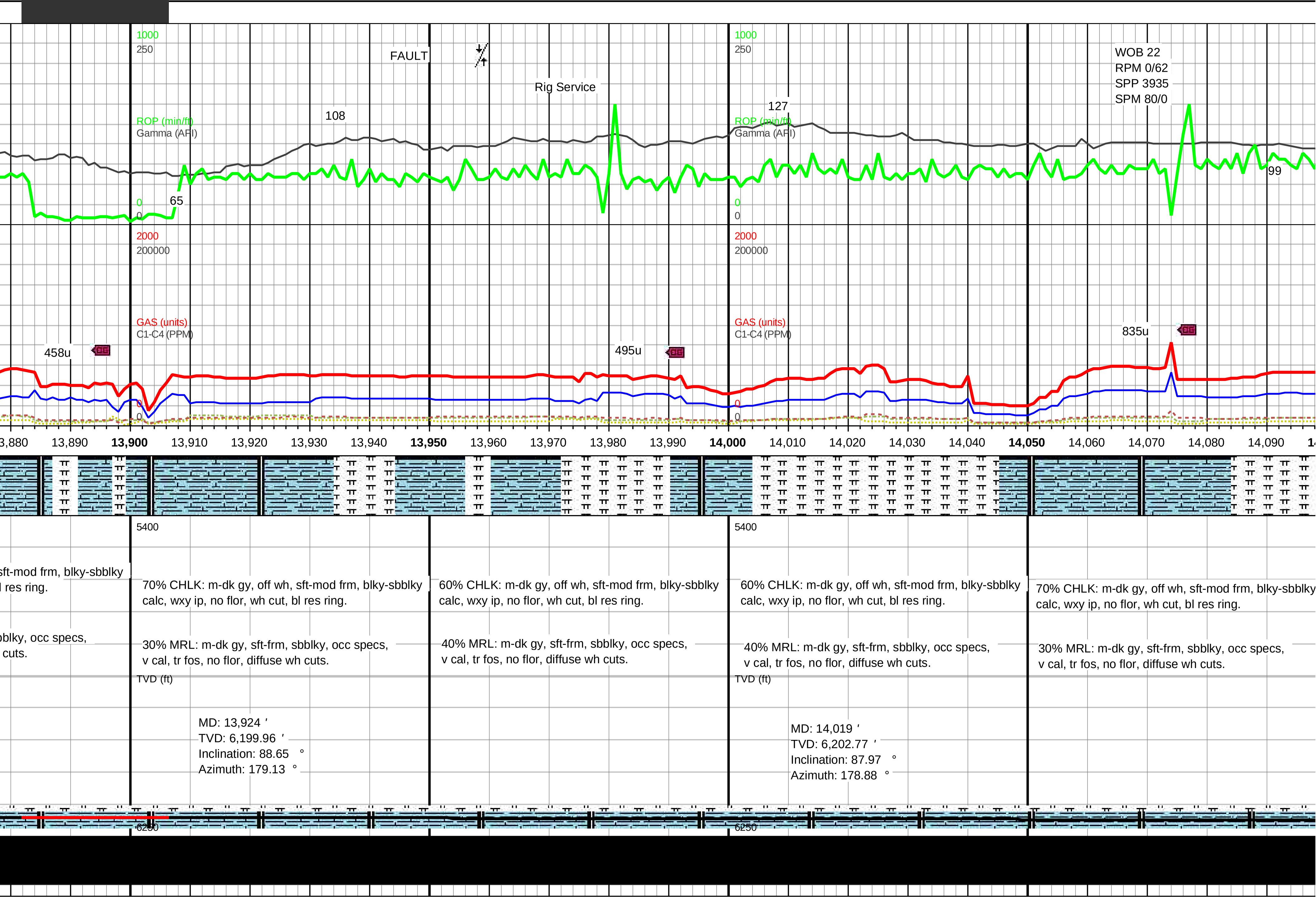
85% CHLK: m-dk gy, off wh, sft-mod frm, blky-sbblky calc, wxy ip, no flor, wh cut, bl res ring.

15% MRL: m-dk gy, sft-frm, sbblky, occ specs, v cal, tr fos, no flor, diffuse wh cuts.

MD: 13,829 ’
TVD: 6,199.5 ’
Inclination: 90.79 °
Azimuth: 179.44 °

85% CHLK: m-dk gy, off wh, s
calc, wxy ip, no flor, wh cut, b

15% MRL: m-dk gy, sft-frm, sb
v cal, tr fos, no flor, diffuse wh



sft-mod frm, blky-sbblky
l res ring.

sbblky, occ specs,
cuts.

70% CHLK: m-dk gy, off wh, sft-mod frm, blky-sbblky calc, wxy ip, no flor, wh cut, bl res ring.

30% MRL: m-dk gy, sft-frm, sbblky, occ specs, v cal, tr fos, no flor, diffuse wh cuts.

MD: 13,924 '
TVD: 6,199.96 '
Inclination: 88.65 °
Azimuth: 179.13 °

60% CHLK: m-dk gy, off wh, sft-mod frm, blky-sbblky calc, wxy ip, no flor, wh cut, bl res ring.

40% MRL: m-dk gy, sft-frm, sbblky, occ specs, v cal, tr fos, no flor, diffuse wh cuts.

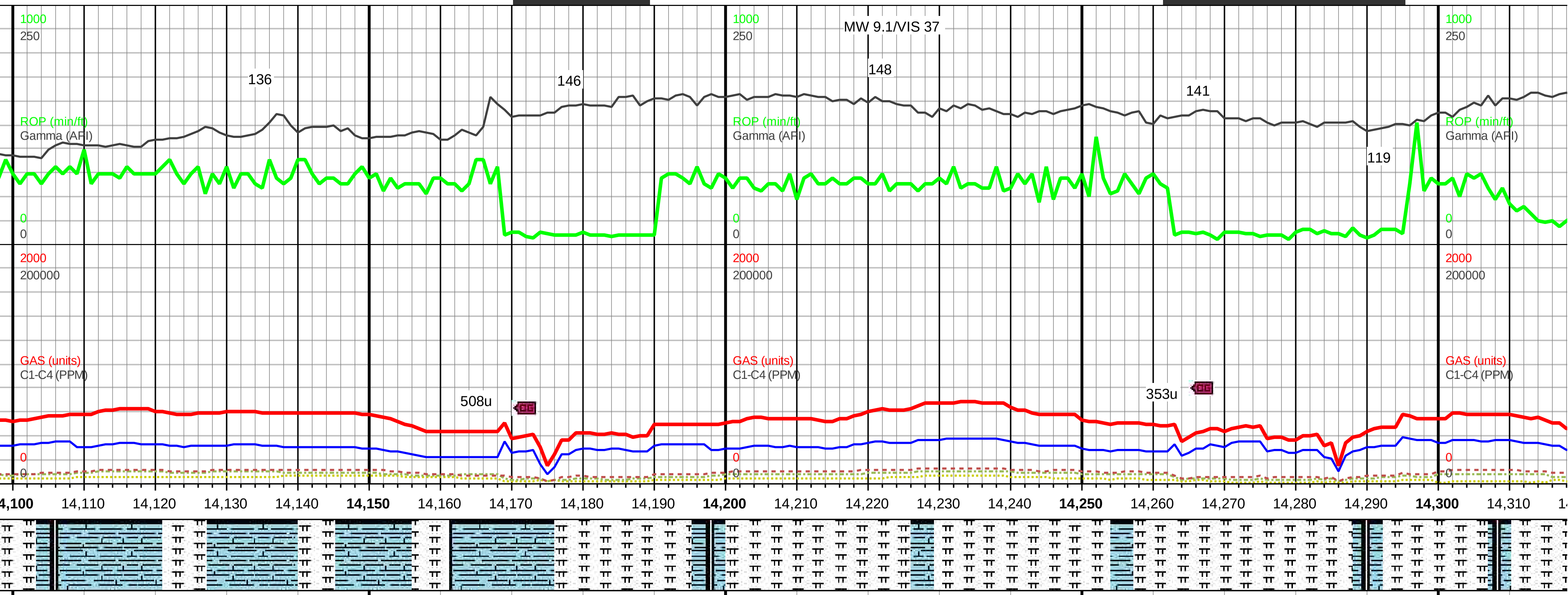
60% CHLK: m-dk gy, off wh, sft-mod frm, blky-sbblky calc, wxy ip, no flor, wh cut, bl res ring.

40% MRL: m-dk gy, sft-frm, sbblky, occ specs, v cal, tr fos, no flor, diffuse wh cuts.

MD: 14,019 '
TVD: 6,202.77 '
Inclination: 87.97 °
Azimuth: 178.88 °

70% CHLK: m-dk gy, off wh, sft-mod frm, blky-sbblky calc, wxy ip, no flor, wh cut, bl res ring.

30% MRL: m-dk gy, sft-frm, sbblky, occ specs, v cal, tr fos, no flor, diffuse wh cuts.



5400

60% CHLK: m-dk gy, off wh, sft-mod frm, blky-sbblky calc, wxy ip, no flor, wh cut, bl res ring.

40% MRL: m-dk gy, sft-frm, sbblky, occ specs, v cal, tr fos, no flor, diffuse wh cuts.

70% MRL: m-dk gy, sft-frm, sbblky, occ specs, v cal, tr fos, no flor, diffuse wh cuts.

30% CHLK: m-dk gy, off wh, sft-mod frm, blky-sbblky calc, wxy ip, no flor, wh cut, bl res ring.

TVD (ft)

MD: 14,113 ′
TVD: 6,206.66 ′
Inclination: 87.28 °
Azimuth: 179.09 °

5400

90% MRL: m-dk gy, sft-frm, sbblky, occ specs, v cal, abnt fos, no flor, diffuse wh cuts.

10% CHLK: m-dk gy, off wh, sft-mod frm, blky-sbblky calc, wxy ip, no flor, wh cut, bl res ring.

TVD (ft)

MD: 14,208 ′
TVD: 6,211.16 ′
Inclination: 87.29 °
Azimuth: 179.34 °

85% MRL: m-dk gy, sft-frm, sbblky, occ specs, v cal, abnt fos, no flor, diffuse wh cuts.

15% CHLK: m-dk gy, off wh, sft-mod frm, blky-sbblky calc, wxy ip, no flor, wh cut, bl res ring.

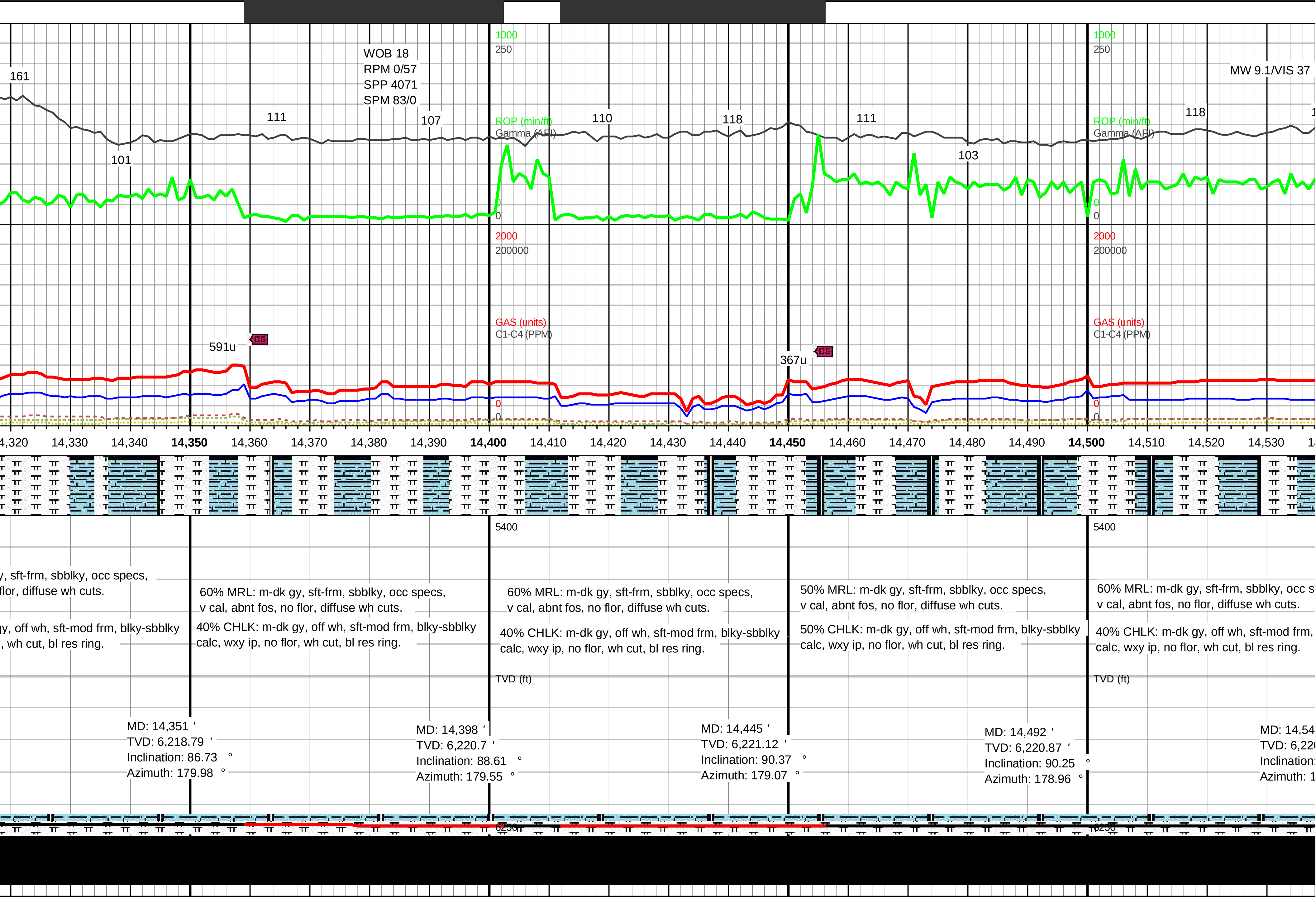
5400

90% MRL: m-dk g
v cal, abnt fos, no

10% CHLK: m-dk g
calc, wxy ip, no flor

TVD (ft)

MD: 14,303 ′
TVD: 6,216.08 ′
Inclination: 86.78 °
Azimuth: 179.55 °



y, sft-frm, sbblky, occ specs,
flor, diffuse wh cuts.

gy, off wh, sft-mod frm, blky-sbblky
, wh cut, bl res ring.

MD: 14,351 ′
TVD: 6,218.79 ′
Inclination: 86.73 °
Azimuth: 179.98 °

60% MRL: m-dk gy, sft-frm, sbblky, occ specs, v cal, abnt fos, no flor, diffuse wh cuts.

40% CHLK: m-dk gy, off wh, sft-mod frm, blky-sbblky calc, wxy ip, no flor, wh cut, bl res ring.

MD: 14,398 ′
TVD: 6,220.7 ′
Inclination: 88.61 °
Azimuth: 179.55 °

60% MRL: m-dk gy, sft-frm, sbblky, occ specs, v cal, abnt fos, no flor, diffuse wh cuts.

40% CHLK: m-dk gy, off wh, sft-mod frm, blky-sbblky calc, wxy ip, no flor, wh cut, bl res ring.

MD: 14,445 ′
TVD: 6,221.12 ′
Inclination: 90.37 °
Azimuth: 179.07 °

50% MRL: m-dk gy, sft-frm, sbblky, occ specs, v cal, abnt fos, no flor, diffuse wh cuts.

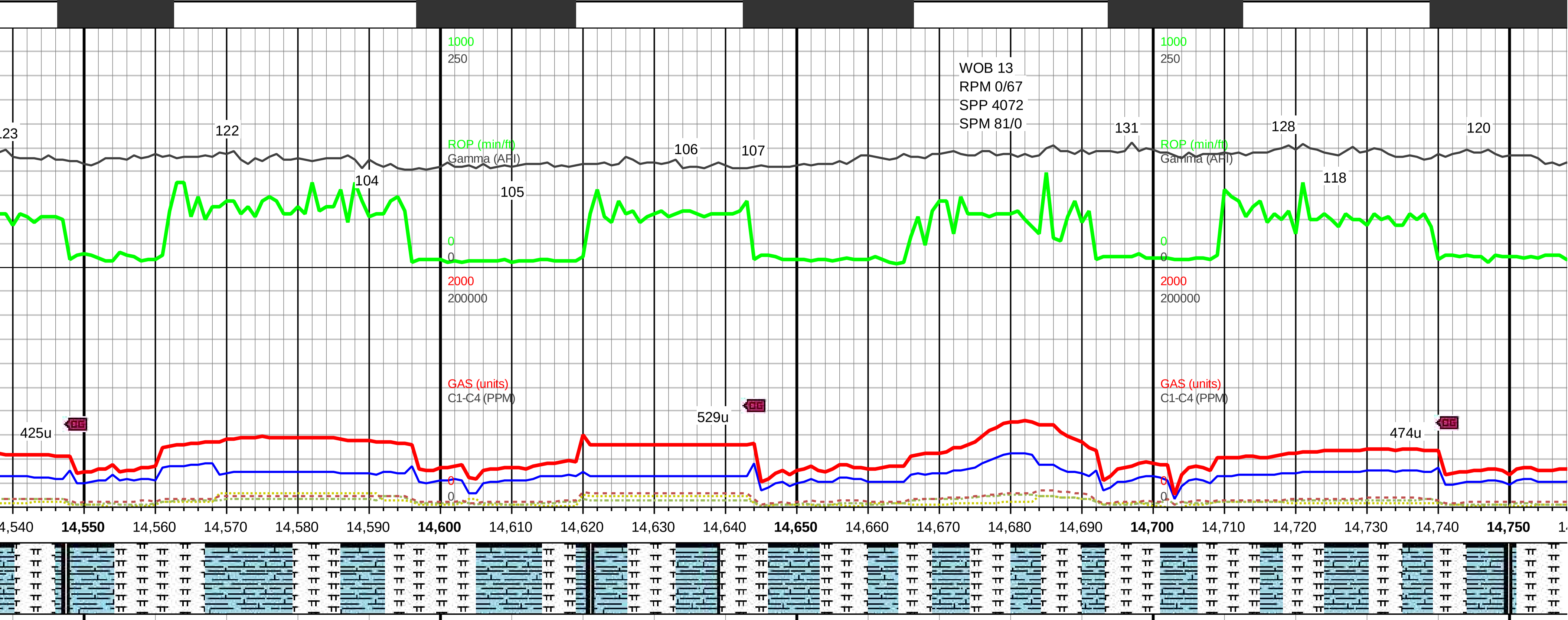
50% CHLK: m-dk gy, off wh, sft-mod frm, blky-sbblky calc, wxy ip, no flor, wh cut, bl res ring.

MD: 14,492 ′
TVD: 6,220.87 ′
Inclination: 90.25 °
Azimuth: 178.96 °

60% MRL: m-dk gy, sft-frm, sbblky, occ s
v cal, abnt fos, no flor, diffuse wh cuts.

40% CHLK: m-dk gy, off wh, sft-mod frm,
calc, wxy ip, no flor, wh cut, bl res ring.

MD: 14,54
TVD: 6,22
Inclination:
Azimuth: 1



pecs,

blky-sbblky

60% MRL: m-dk gy, sft-frm, sbblky, occ specs, v cal, abnt fos, no flor, diffuse wh cuts.

40% CHLK: m-dk gy, off wh, sft-mod frm, blky-sbblky calc, wxy ip, no flor, wh cut, bl res ring.

60% CHLK: m-dk gy, off wh, sft-mod frm, blky-sbblky calc, wxy ip, no flor, wh cut, bl res ring.

40% MRL: m-dk gy, sft-frm, sbblky, occ specs, v cal, abnt fos, no flor, diffuse wh cuts.

50% CHLK: m-dk gy, off wh, sft-mod frm, blky-sbblky calc, wxy ip, no flor, wh cut, bl res ring.

40% MRL: m-dk gy, sft-frm, sbblky, occ specs, v cal, abnt fos, no flor, diffuse wh cuts.

60% MRL: m-dk gy, sft-frm, sbblky, occ specs, v cal, abnt fos, no flor, diffuse wh cuts.

40% CHLK: m-dk gy, off wh, sft-mod frm, blky-sbblky calc, wxy ip, no flor, wh cut, bl res ring.

70% M
v cal, a

30% Cl
calc, w

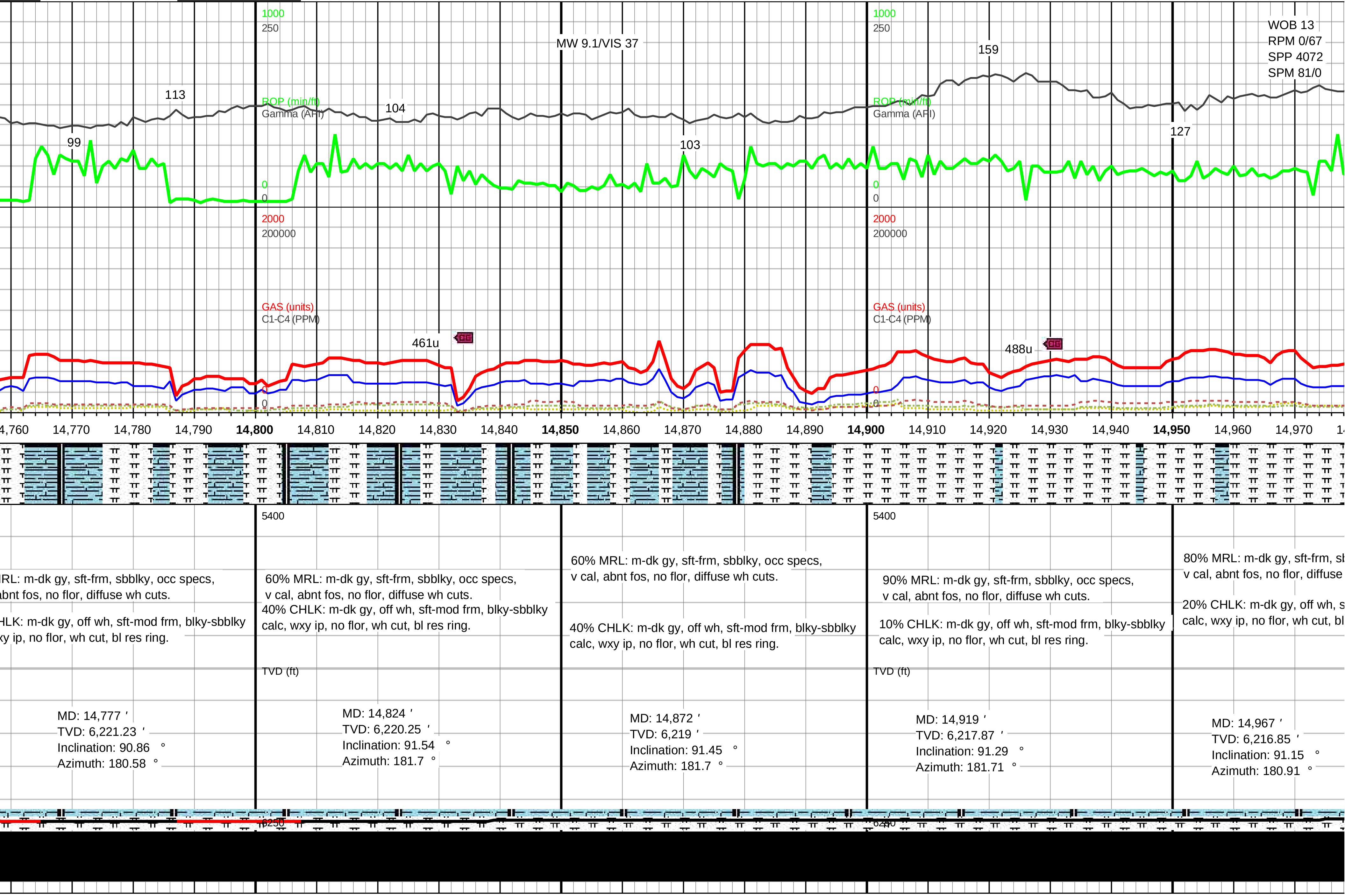
0 ʹ
.98 ʹ
89.48 °
78.53 °

MD: 14,587 ʹ
TVD: 6,221.48 ʹ
Inclination: 89.29 °
Azimuth: 177.64 °

MD: 14,634 ʹ
TVD: 6,221.82 ʹ
Inclination: 89.88 °
Azimuth: 178.8 °

MD: 14,682 ʹ
TVD: 6,221.86 ʹ
Inclination: 90.03 °
Azimuth: 179.57 °

MD: 14,729 ʹ
TVD: 6,221.72 ʹ
Inclination: 90.31 °
Azimuth: 180.11 °



RL: m-dk gy, sft-frm, sbblky, occ specs,
abnt fos, no flor, diffuse wh cuts.

HLK: m-dk gy, off wh, sft-mod frm, blky-sbblky
xy ip, no flor, wh cut, bl res ring.

MD: 14,777 ′
TVD: 6,221.23 ′
Inclination: 90.86 °
Azimuth: 180.58 °

60% MRL: m-dk gy, sft-frm, sbblky, occ specs, v cal, abnt fos, no flor, diffuse wh cuts.
40% CHLK: m-dk gy, off wh, sft-mod frm, blky-sbblky calc, wxy ip, no flor, wh cut, bl res ring.

MD: 14,824 ′
TVD: 6,220.25 ′
Inclination: 91.54 °
Azimuth: 181.7 °

60% MRL: m-dk gy, sft-frm, sbblky, occ specs, v cal, abnt fos, no flor, diffuse wh cuts.

40% CHLK: m-dk gy, off wh, sft-mod frm, blky-sbblky calc, wxy ip, no flor, wh cut, bl res ring.

MD: 14,872 ′
TVD: 6,219 ′
Inclination: 91.45 °
Azimuth: 181.7 °

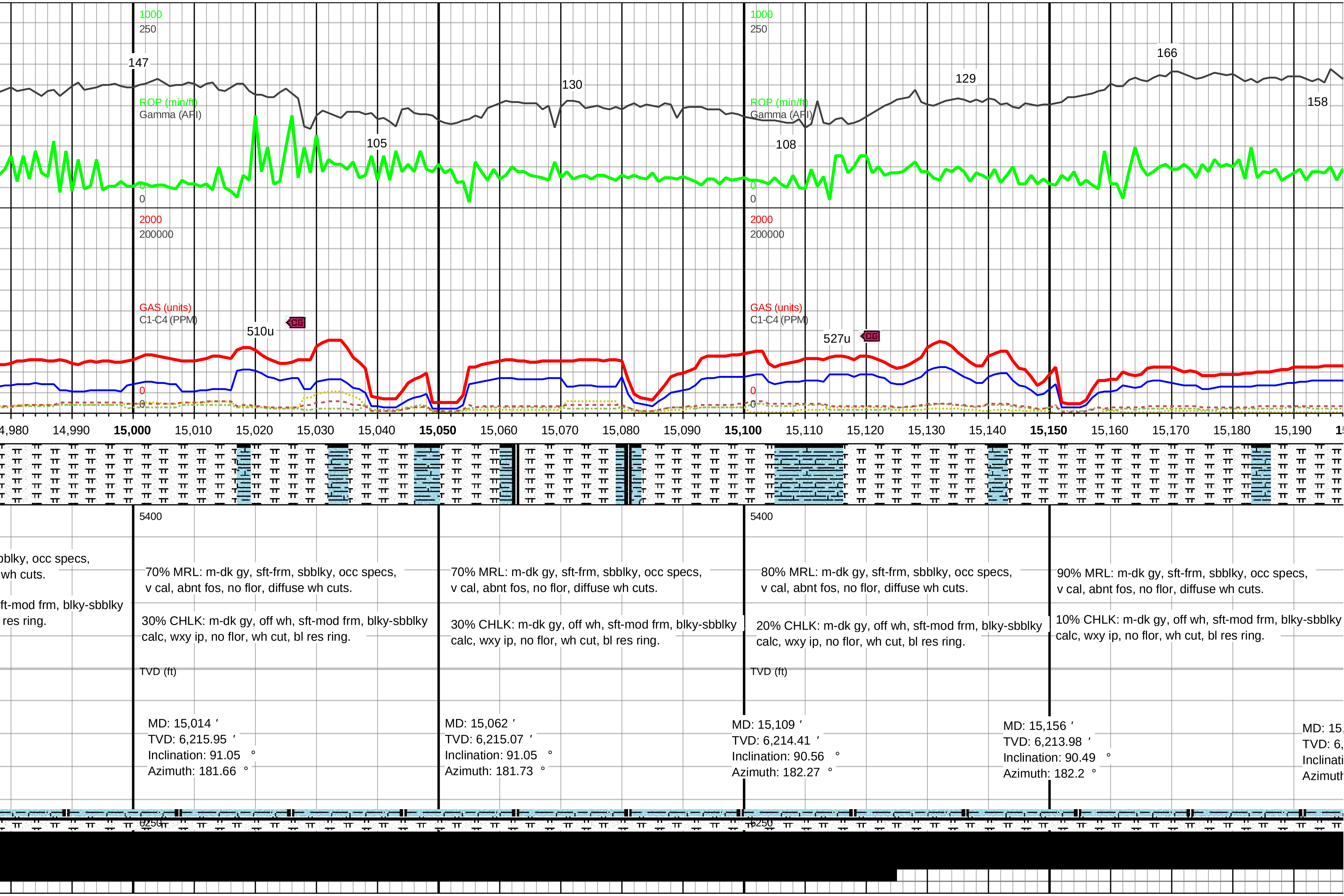
90% MRL: m-dk gy, sft-frm, sbblky, occ specs, v cal, abnt fos, no flor, diffuse wh cuts.
10% CHLK: m-dk gy, off wh, sft-mod frm, blky-sbblky calc, wxy ip, no flor, wh cut, bl res ring.

MD: 14,919 ′
TVD: 6,217.87 ′
Inclination: 91.29 °
Azimuth: 181.71 °

80% MRL: m-dk gy, sft-frm, sb
v cal, abnt fos, no flor, diffuse

20% CHLK: m-dk gy, off wh, s
calc, wxy ip, no flor, wh cut, bl

MD: 14,967 ′
TVD: 6,216.85 ′
Inclination: 91.15 °
Azimuth: 180.91 °



bblky, occ specs,
wh cuts.

ft-mod frm, blky-sbblky
res ring.

70% MRL: m-dk gy, sft-frm, sbblky, occ specs, v cal, abnt fos, no flor, diffuse wh cuts.

30% CHLK: m-dk gy, off wh, sft-mod frm, blky-sbblky calc, wxy ip, no flor, wh cut, bl res ring.

MD: 15,014 ′
TVD: 6,215.95 ′
Inclination: 91.05 °
Azimuth: 181.66 °

70% MRL: m-dk gy, sft-frm, sbblky, occ specs, v cal, abnt fos, no flor, diffuse wh cuts.

30% CHLK: m-dk gy, off wh, sft-mod frm, blky-sbblky calc, wxy ip, no flor, wh cut, bl res ring.

MD: 15,062 ′
TVD: 6,215.07 ′
Inclination: 91.05 °
Azimuth: 181.73 °

80% MRL: m-dk gy, sft-frm, sbblky, occ specs, v cal, abnt fos, no flor, diffuse wh cuts.

20% CHLK: m-dk gy, off wh, sft-mod frm, blky-sbblky calc, wxy ip, no flor, wh cut, bl res ring.

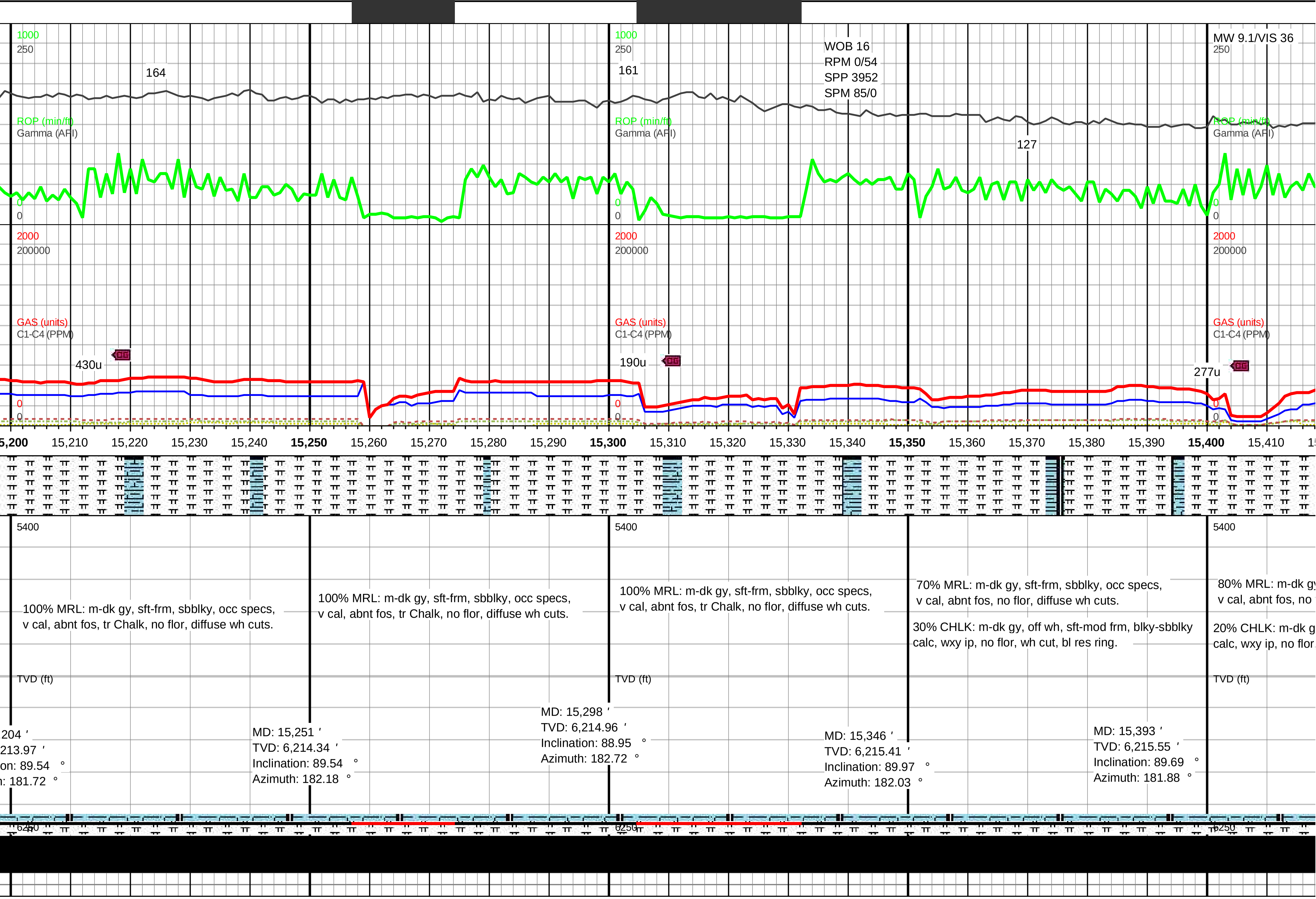
MD: 15,109 ′
TVD: 6,214.41 ′
Inclination: 90.56 °
Azimuth: 182.27 °

90% MRL: m-dk gy, sft-frm, sbblky, occ specs, v cal, abnt fos, no flor, diffuse wh cuts.

10% CHLK: m-dk gy, off wh, sft-mod frm, blky-sbblky calc, wxy ip, no flor, wh cut, bl res ring.

MD: 15,156 ′
TVD: 6,213.98 ′
Inclination: 90.49 °
Azimuth: 182.2 °

MD: 15
TVD: 6,
Inclinati
Azimuth



100% MRL: m-dk gy, sft-frm, sbblky, occ specs, v cal, abnt fos, tr Chalk, no flor, diffuse wh cuts.

100% MRL: m-dk gy, sft-frm, sbblky, occ specs, v cal, abnt fos, tr Chalk, no flor, diffuse wh cuts.

100% MRL: m-dk gy, sft-frm, sbblky, occ specs, v cal, abnt fos, tr Chalk, no flor, diffuse wh cuts.

70% MRL: m-dk gy, sft-frm, sbblky, occ specs, v cal, abnt fos, no flor, diffuse wh cuts.

30% CHLK: m-dk gy, off wh, sft-mod frm, blky-sbblky calc, wxy ip, no flor, wh cut, bl res ring.

80% MRL: m-dk gy
v cal, abnt fos, no

20% CHLK: m-dk g
calc, wxy ip, no flor

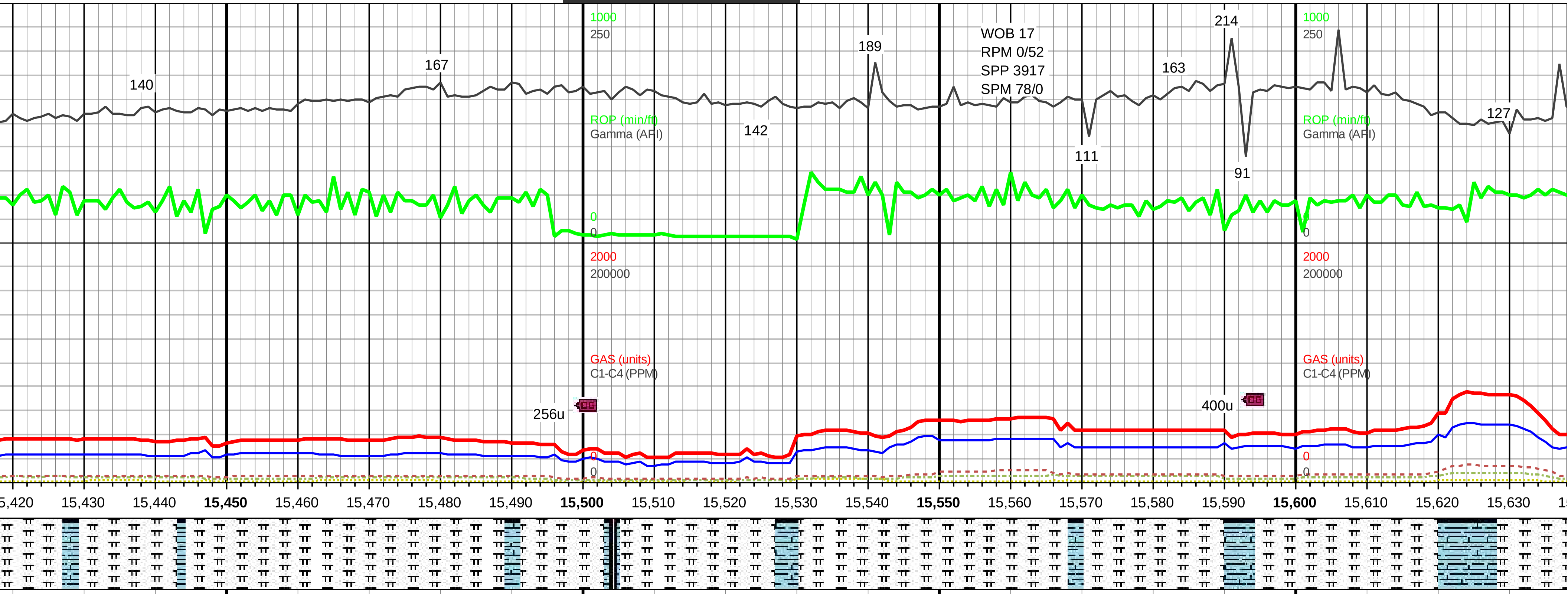
204 ′
213.97 ′
on: 89.54 °
n: 181.72 °

MD: 15,251 ′
TVD: 6,214.34 ′
Inclination: 89.54 °
Azimuth: 182.18 °

MD: 15,298 ′
TVD: 6,214.96 ′
Inclination: 88.95 °
Azimuth: 182.72 °

MD: 15,346 ′
TVD: 6,215.41 ′
Inclination: 89.97 °
Azimuth: 182.03 °

MD: 15,393 ′
TVD: 6,215.55 ′
Inclination: 89.69 °
Azimuth: 181.88 °



5400

y, sft-frm, sbblky, occ specs,
flor, diffuse wh cuts.

y, off wh, sft-mod frm, blky-sbblky
, wh cut, bl res ring.

MD: 15,441 '
TVD: 6,216.1 '
Inclination: 89.01 °
Azimuth: 182.08 °

100% MRL: m-dk gy, sft-frm, sbblky, occ specs,
v cal, abnt fos, tr Chalk, no flor, diffuse wh cuts.

MD: 15,488 '
TVD: 6,217.08 '
Inclination: 88.59 °
Azimuth: 181.41 °

95% MRL: m-dk gy, sft-frm, sbblky, occ specs,
v cal, abnt fos, no flor, diffuse wh cuts.

5% CHLK: m-dk gy, off wh, sft-mod frm, blky-sbblky
calc, wxy ip, no flor, wh cut, bl res ring.

TVD (ft)

MD: 15,535 '
TVD: 6,218.03 '
Inclination: 89.1 °
Azimuth: 180.25 °

100% MRL: m-dk gy, sft-frm, sbblky, occ specs,
v cal, abnt fos, tr Chalk, no flor, diffuse wh cuts.

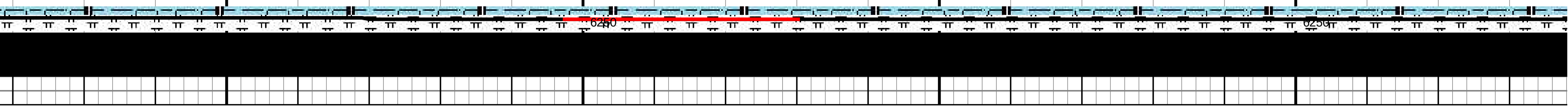
5400

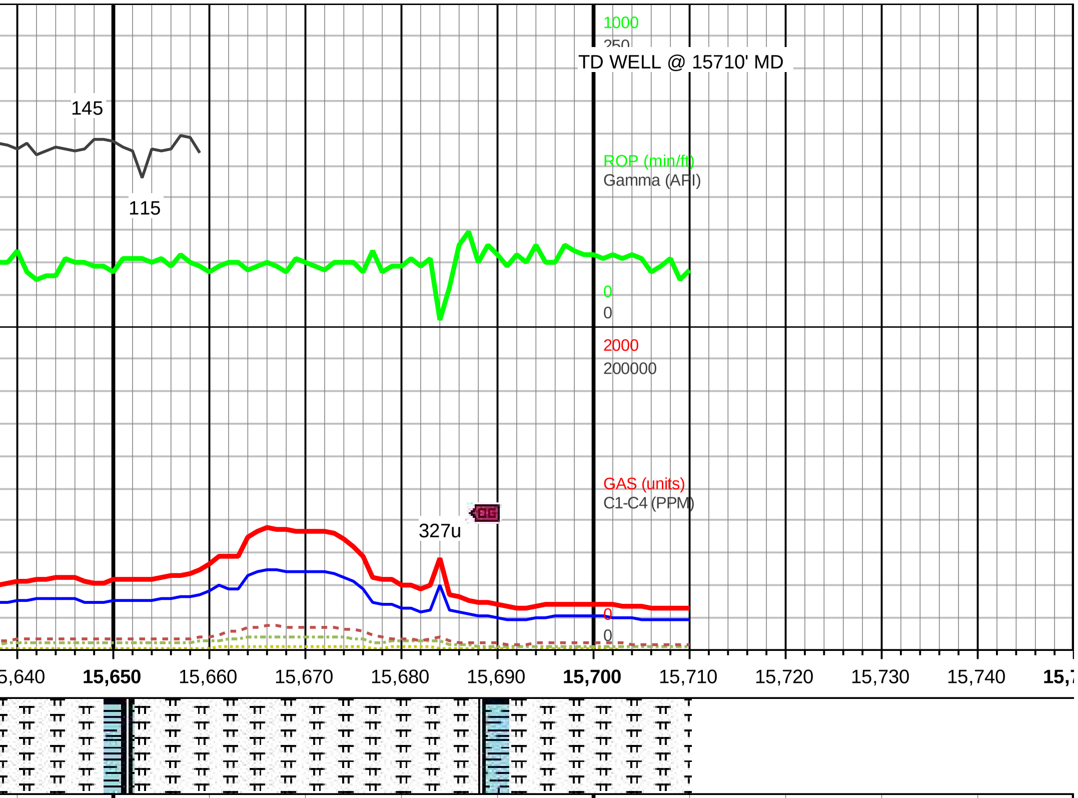
80% MRL: m-dk gy, sft-frm, sbblky, occ sp
v cal, abnt fos, no flor, diffuse wh cuts.

20% CHLK: m-dk gy, off wh, sft-mod frm,
calc, wxy ip, no flor, wh cut, bl res ring.

TVD (ft)

MD: 15,630 '
TVD: 6,218.9 '
Inclination: 89.85 °
Azimuth: 181.09 °





5400

ecs,

blky-sbblky

90% MRL: m-dk gy, sft-frm, sbblky, occ specs, v cal, abnt fos, no flor, diffuse wh cuts.

10% CHLK: m-dk gy, off wh, sft-mod frm, blky-sbblky calc, wxy ip, no flor, wh cut, bl res ring.

90% MRL: m-dk gy, sft-frm, sbblky, occ specs, v cal, abnt fos, no flor, diffuse wh cuts.

10% CHLK: m-dk gy, off wh, sft-mod frm, blky-sbblky calc, wxy ip, no flor, wh cut, bl res ring.

TVD (ft)

BIT PROJECTION

MD: 15,710 ’
TVD: 6,219.23 ’
Inclination: 89.75 °
Azimuth: 181.14 °