Scale: 5" / 100'
Measured Depth Log

Well Name	Bigfoot 11-10-3_Horizontal_Final Mudlog		
Location	S11 T4N R63W, 2380' FSL 620' FWL		
State	Colorado	**County**	Weld
Country	USA	**Rig Number**	Akita 522
API Number	05-123-517630000	**AFE #**	101060
Geographic Region	Rockies	**Field**	Platte
Spud Date	9/3/2022	**Drilling Completed**	11/19/2022
Surface Coordinates	N 40° 32' 63.40", W 104° 41' 33.70"		
Bottom Hole Coordinates	N 40° 33' 02.60", W 104° 39' 74.60"		
Ground Elevation	4,616'	**K.B. Elevation**	4,632'
Logged Interval	6,200' **To** 11,540'	**Total Depth**	11,540'
Formation	NIO C		
Type of Drilling Fluid	OBM		

Operator

Company Confluence Resources LP

Address 1001 17th Street, Suite 1250
Denver, CO, 80202

Geologist

Name Cassidy Miller, Aryn Rowe, Nathan Brown

Company Confluence Resources LP

Address 1001 17th Street, Suite 1250
Denver, CO, 80202

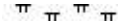
Other

Loggers:	Steven Selby / Ryan Reed
Sample Catchers:	Joshua Foust / Jianwei Hou
Equipment:	ML-531
Start Date:	11/16/2022
End Date:	11/19/2022
Services:	Mudlogging, XRD, XRF, Geosteering

Rock Types


SHALE GRAY


SANDSTONE


MARLSTONE


CHALK


UNKNOWN

Other Symbols

Engineering


CONNECTION (LEFT)

CONNECTION GAS

MN DEPTH

ROP/Gamma

ROP

0 ft/hr 2000

GAMMA

0 units 200

Confluence Resources Bigfoot 11-10-3

9 5/8" Surface Casing @ 1,774'

Spud Date: 9/03/2022

Logging Began: 11/16/2022

All Depths Correspond to Driller's Pipe Tally

Slide/Rotate

Depth Labels

6,160 6,170 6,180 6,190 6,200 6,210 6,220 6,230 6,240 6,250 6,260 6,270 6,280 6,290 6,300 6,310 6,320 6,330 6,3

Gas Show

Notes

SS WOB: 5k
RPM: 30
SPM: 226
PP: 2,918

MD: 6,268'
INC: 26.44°
AZM: 113.2°
TVD: 6,092.24'
VS: -537.97'

MW IN: 9.4
VIS IN: 56
MW OUT: 9.4
VIS OUT: 56

Sharon Springs
6,297' MD / 6,117' TVD

% Lith

Total Gas

GAS
C1
C2
C3
IC4
NC4
CO2
H2S

Loggers
SS - Steven Selby
RR - Ryan Reed

76u

183u

System Calibrated
1% Methane = 100 units
100% Methane = 10000 units

Well Bore

TVD

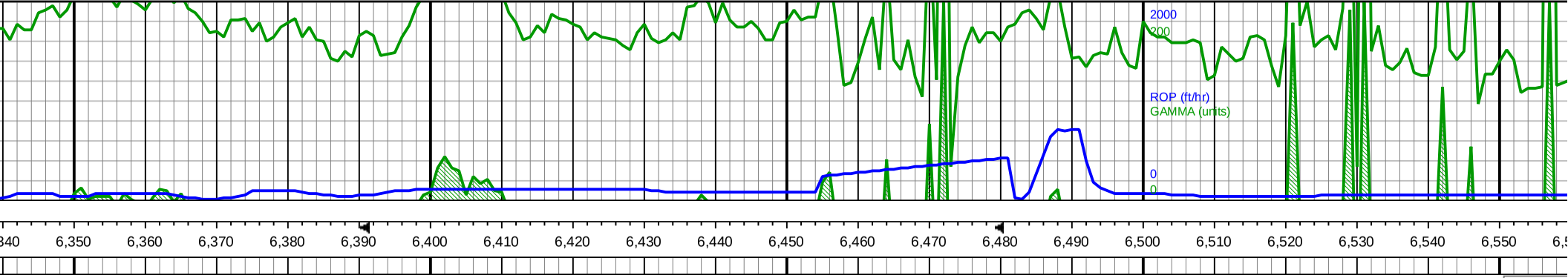
Bit #: 2
Type: SMITH
Size: 8 1/2
Depth In: 1,774'
Depth Out: 6,606'
Hours: 21.3 hrs
Avg Ft/Hr: 227 '/hr
Jets: 1X9 6X10

Lithology Descriptions

90% SH: predy lt gy, med gy, sb ang, frm-fri, slty, aren, sil; 10% SS: crm-lt gy intbds, frm, sb rnd, cons, vf gr mtx, sl-mod calc

90% SH: predy lt gy, med gy, sb ang, frm-fri, slty, aren, sil; 10% SS: crm-lt gy intbds, frm, sb rnd, cons, vf gr mtx, sl-mod calc

Images



MD: 6,357'
INC: 32.82°
AZM: 106.9°
TVD: 6,169.58'
VS: -494.34'

WOB: 5k
RPM: 40
SPM: 224
PP: 2,919

MD: 6,446'
INC: 40.98°
AZM: 100.2°
TVD: 6,240.72'
VS: -441.01'

Nio A Chalk
6,453' MD / 6,245' TVD

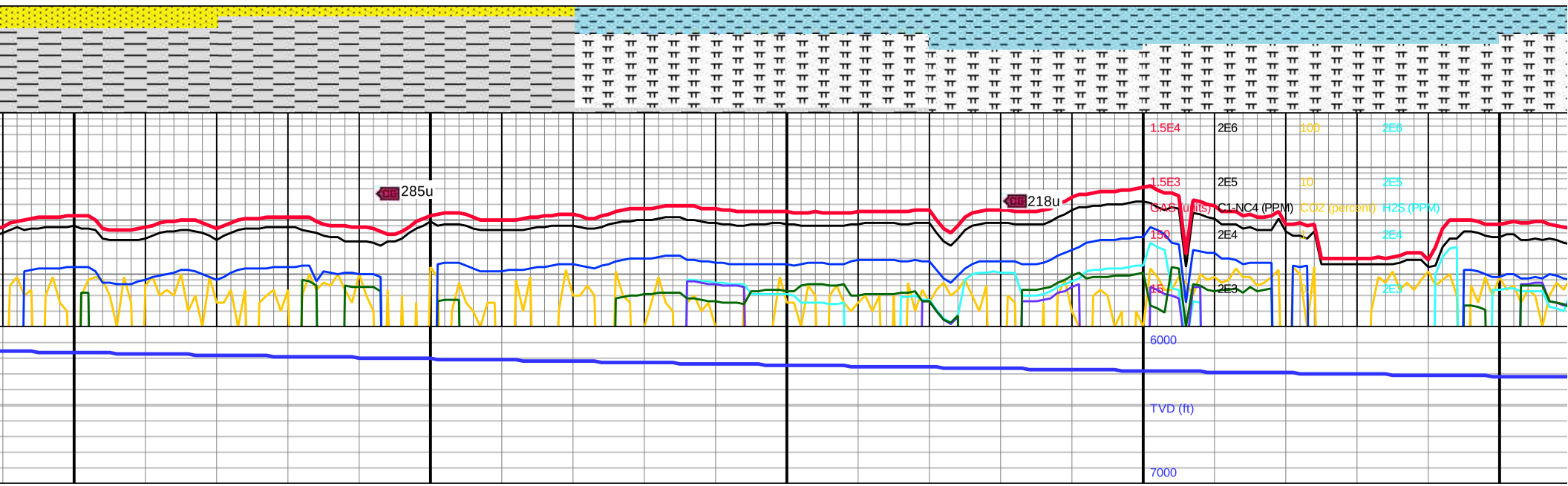
Nio A Marl
6,486' MD / 6,270' TVD

Nio B Chalk
6,516' MD / 6,291' TVD

MD: 6,534'
INC: 46.1°
AZM: 95.4°
TVD: 6,304.51'
VS: -380.72'

MW IN: 9
VIS IN: 5
MW OUT
VIS OUT

DEPTH CORRECTION AT 6483' MD 70' OFF ON PIPE TALLY



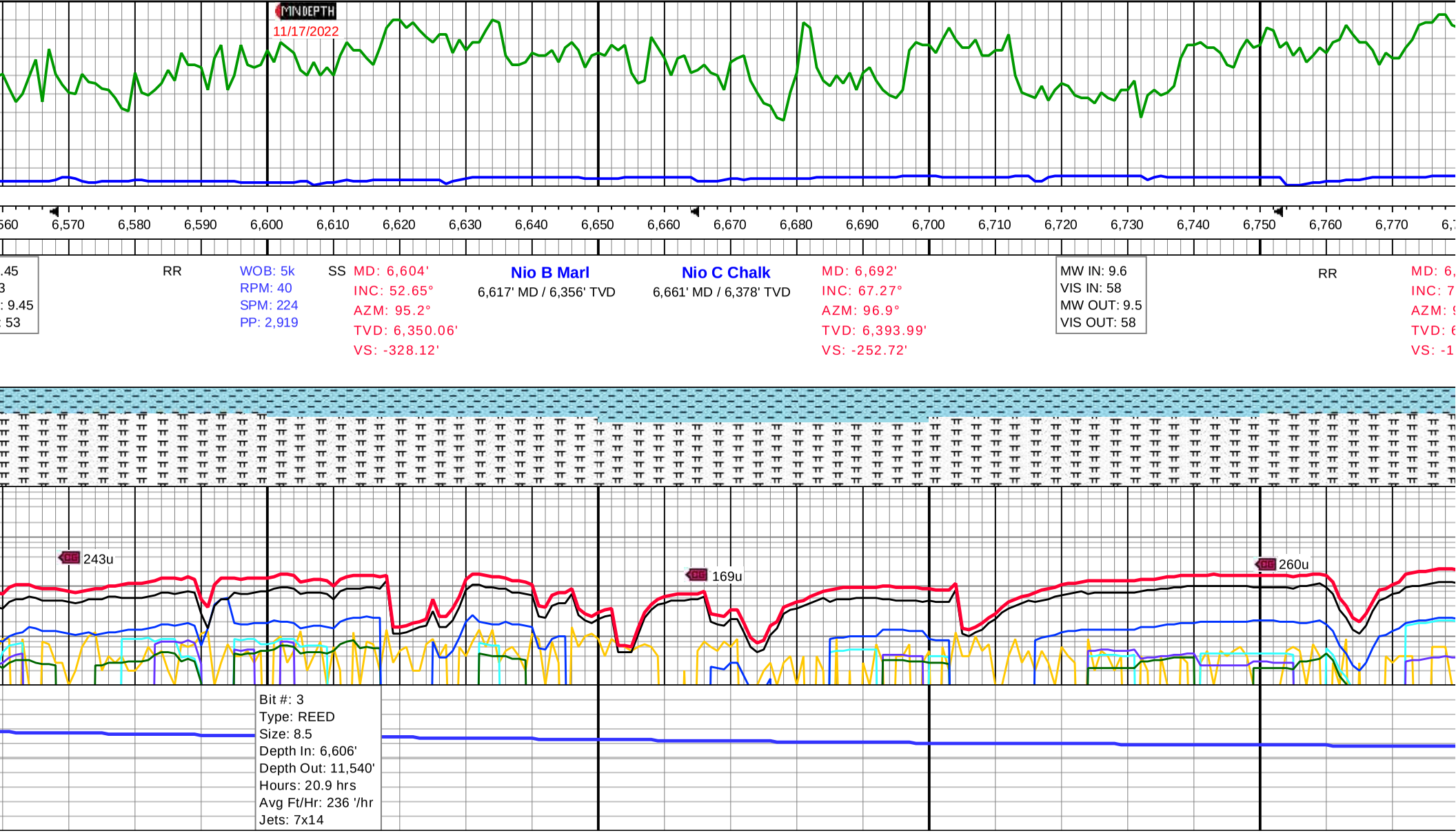
80% SH: predy lt gy, med gy, sb ang, frm-fri, slty, sli aren, sil; 20% SS: crm-lt gy intbds, frm, sb rnd, w cons, vf gr mtx, sl-mod calc

90% SH: predy lt gy, med gy, sb ang, frm-fri, slty, aren, sil; 10% SS: crm-lt gy intbds, frm, sb rnd, cons, vf gr mtx, sl-mod calc

70% MRLST: dk gry, occ dk-lt brn, frm-sl fri, blky-sb ang, sb plty, sb wxy lstr, calc; 25% CHK: predy lt brn, lt gry-gry mot, sme offwht, fri, rthy tex, sb blky, arg, f mmica incl, calc; 5% SH sh lt gy, sb ang, frm-fri, sl aren, sil

60% MRLST: dk gry, occ dk-lt brn, frm-sl fri, blky-sb ang, sb plty, sb wxy lstr, calc; 40% CHK: predy lt brn, lt gry-gry mot, sme offwht, fri, rthy tex, sb blky, arg, f mmica incl, calc

65% MRLST: dk gry, sme dk-lt brn, frm-sl fri, blky-sb ang, sb plty, sb wxy lstr, calc; 35% CHK: lt gry-gry mot, tr offwht, fri, rthy tex, sb blky, arg, f mmica incl, calc



.45
3
: 9.45
: 53

RR

WOB: 5k
RPM: 40
SPM: 224
PP: 2,919

SS MD: 6,604'
INC: 52.65°
AZM: 95.2°
TVD: 6,350.06'
VS: -328.12'

Nio B Marl
6,617' MD / 6,356' TVD

Nio C Chalk
6,661' MD / 6,378' TVD

MD: 6,692'
INC: 67.27°
AZM: 96.9°
TVD: 6,393.99'
VS: -252.72'

MW IN: 9.6
VIS IN: 58
MW OUT: 9.5
VIS OUT: 58

RR

MD: 6,
INC: 7
AZM: 9
TVD: 6
VS: -1

243u

169u

260u

Bit #: 3
Type: REED
Size: 8.5
Depth In: 6,606'
Depth Out: 11,540'
Hours: 20.9 hrs
Avg Ft/Hr: 236 '/hr
Jets: 7x14

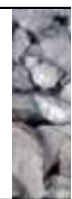
75% MRLST: dk gry, occ dk-lt brn, frm-sl fri, blky-sb ang, sb plty, sb wxy lstr, calc; 25% CHK: predy lt brn, lt gry-gry mot, sme offwht, fri, rthy tex, sb blky, arg, f mmica incl, calc

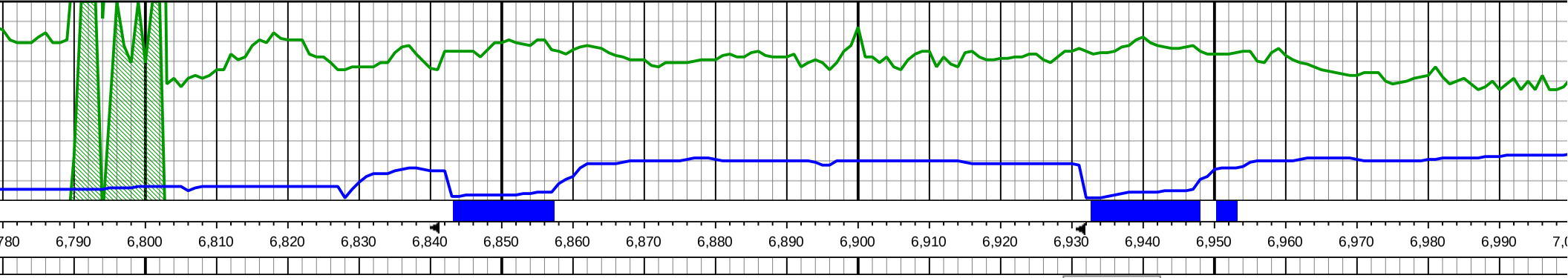
70% MRLST: dk gry, sme dk-lt brn, frm-sl fri, blky-sb ang, sb plty, sb wxy lstr, calc; 33% CHK: lt gry-gry mot, tr offwht, fri, rthy tex, sb blky, arg, f mmica incl, calc

65% MRLST: dk gry, sme dk-lt brn, frm-sl fri, blky-sb ang, sb plty, sb wxy lstr, calc; 35% CHK: lt gry-gry mot, tr offwht, fri, rthy tex, sb blky, arg, f mmica incl, calc

70% MRLST: dk gry, sme dk-lt brn, frm-sl fri, blky-sb ang, sb plty, sb wxy lstr, calc; 33% CHK: lt gry-gry mot, tr offwht, fri, rthy tex, sb blky, arg, f mmica incl, calc

75% M
dk-lt b
ang, s
calc; 2
lt gry-
fri, rth
mmica





781'
9.46°
94.8°
6,419.43'
68.3'

WOB: 14k
RPM: 0
SPM: 204
PP: 3,251

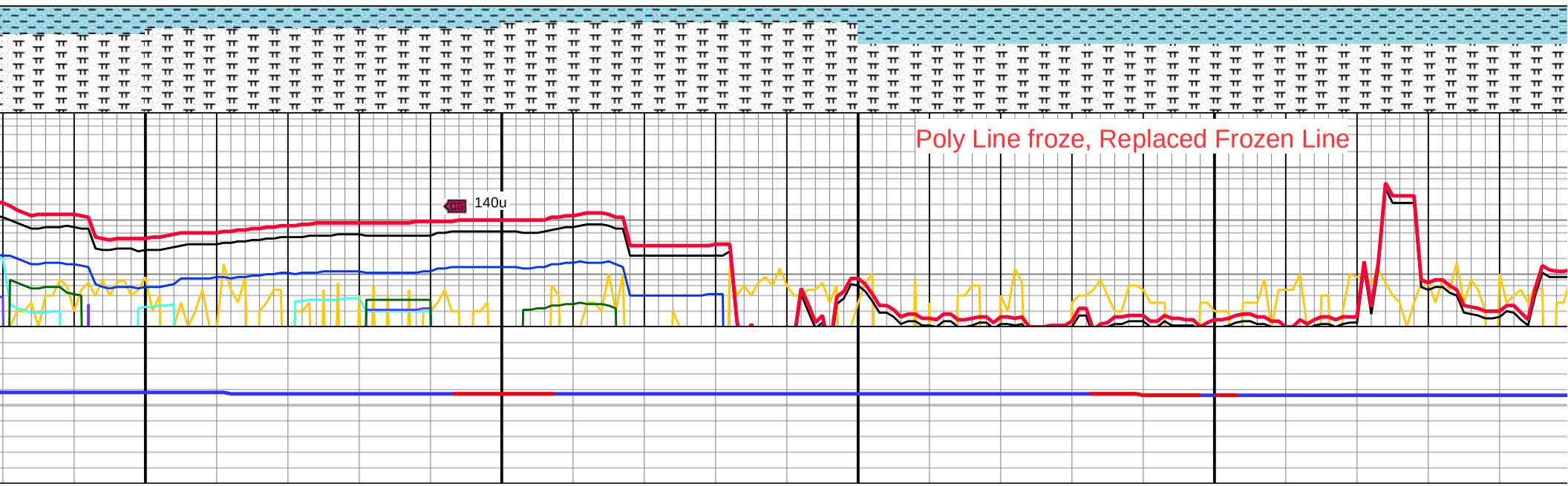
MD: 6,870'
INC: 87.96°
AZM: 92.3°
TVD: 6,429.17'
VS: -81.15'

Landed Curve

MW IN: 9.6
VIS IN: 61
MW OUT: 9.5
VIS OUT: 59

MD: 6,959'
INC: 87.69°
AZM: 90.0°
TVD: 6,432.55'
VS: 5.85'

WO
RPM
SPM
PP:

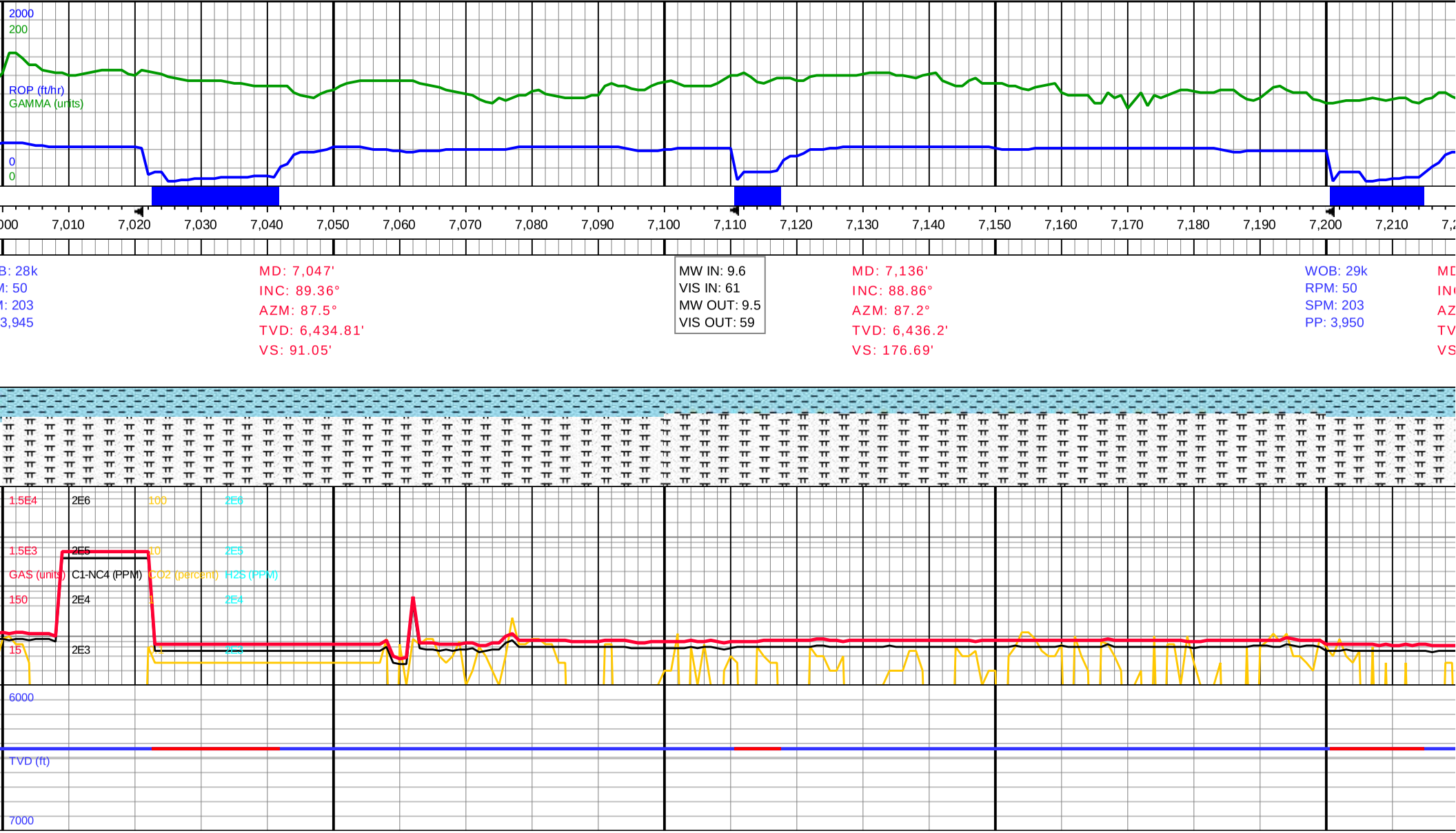


MRLST: dk gry, occ
brn, frm-sl fri, blky-sb
sb plty, sb wxy lstr,
25% CHK: predy lt brn,
gry mot, sme offwht,
y tex, sb blky, arg, f
a incl, calc

80% MRLST: dk gry, sme
dk-lt brn, frm-sl fri,
blky-sb ang, sb plty, sb
wxy lstr, calc; 20% CHK:
lt gry-gry mot, tr offwht,
fri, rthy tex, sb blky, arg, f
mmica incl, calc

85% MRLST: dk gry, occ
dk-lt brn, frm-sl fri,
blky-sb ang, sb plty, sb
wxy lstr, calc; 15% CHK:
predy lt brn, lt gry-gry
mot, sme offwht, fri, rthy
tex, sb blky, arg, f
mmica incl, calc

65% MRLST: dk gry, sme
dk-lt brn, frm-sl fri,
blky-sb ang, sb plty, sb
wxy lstr, calc; 35% CHK:
lt gry-gry mot, tr offwht,
fri, rthy tex, sb blky, arg, f
mmica incl, calc



B: 28k
M: 50
M: 203
3,945

MD: 7,047'
INC: 89.36°
AZM: 87.5°
TVD: 6,434.81'
VS: 91.05'

MW IN: 9.6
VIS IN: 61
MW OUT: 9.5
VIS OUT: 59

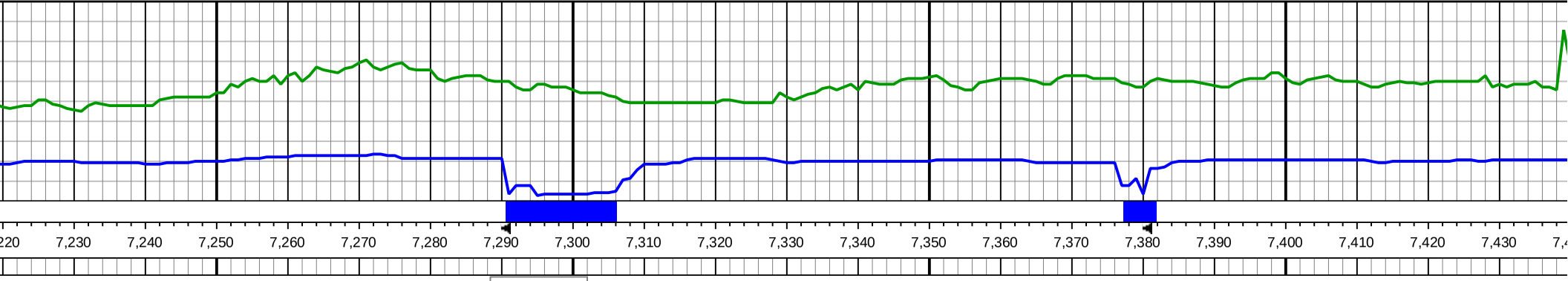
MD: 7,136'
INC: 88.86°
AZM: 87.2°
TVD: 6,436.2'
VS: 176.69'

WOB: 29k
RPM: 50
SPM: 203
PP: 3,950

MD
IN
AZ
TV
VS

70% MRLST: dk gry, sme dk-lt brn, frm-sl fri, blky-sb ang, sb plty, sb wxy lstr, calc; 33% CHK: lt gry-gry mot, tr offwht, fri, rthy tex, sb blky, arg, f mmica incl, calc

75% MRLST: dk gry, occ dk-lt brn, frm-sl fri, blky-sb ang, sb plty, sb wxy lstr, calc; 25% CHK: predy lt brn, lt gry-gry mot, sme offwht, fri, rthy tex, sb blky, arg, f mmica incl, calc



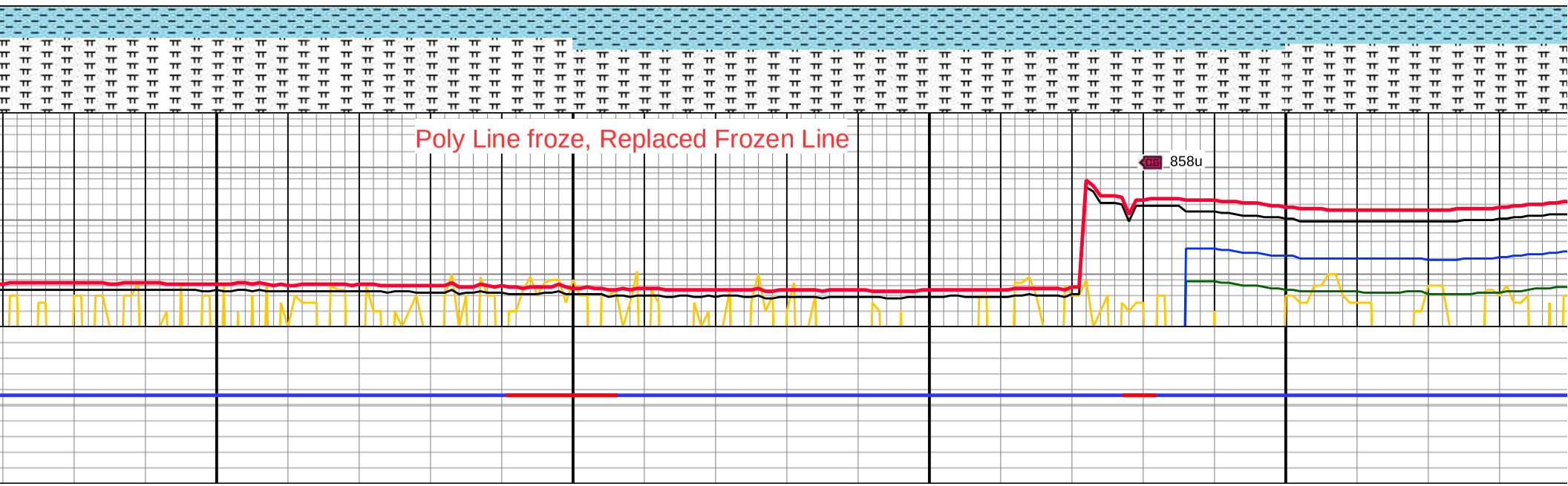
D: 7,225'
C: 90.04°
M: 87.1°
D: 6,437.05'
: 262.26'

MW IN: 9.6
VIS IN: 61
MW OUT: 9.5
VIS OUT: 59

MD: 7,314'
INC: 90.16°
AZM: 88.5°
TVD: 6,436.9'
VS: 348.09'

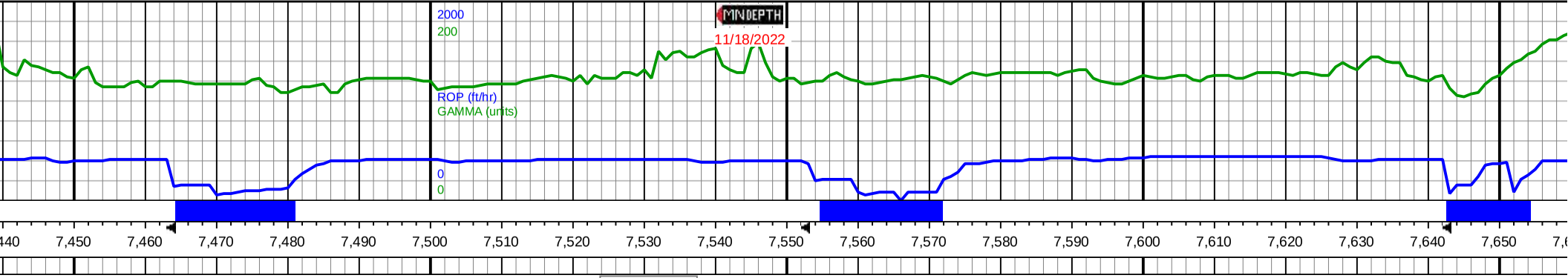
WOB: 27k
RPM: 50
SPM: 204
PP: 3,997

MD: 7,402'
INC: 90.06°
AZM: 88.0°
TVD: 6,436.73'
VS: 433.14'



70% MRLST: dk gry, occ dk-lt brn, frm-sl fri, blky-sb ang, sb plty, sb wxy lstr, calc; 30% CHK: predy lt brn, lt gry-gry mot, sme offwht, fri, rthy tex, sb blky, arg, f mmica incl, calc

60% MRLST: dk gry, occ dk-lt brn, frm-sl fri, blky-sb ang, sb plty, sb wxy lstr, calc; 40% CHK: predy lt brn, lt gry-gry mot, sme offwht, fri, rthy tex, sb blky, arg, f mmica incl, calc

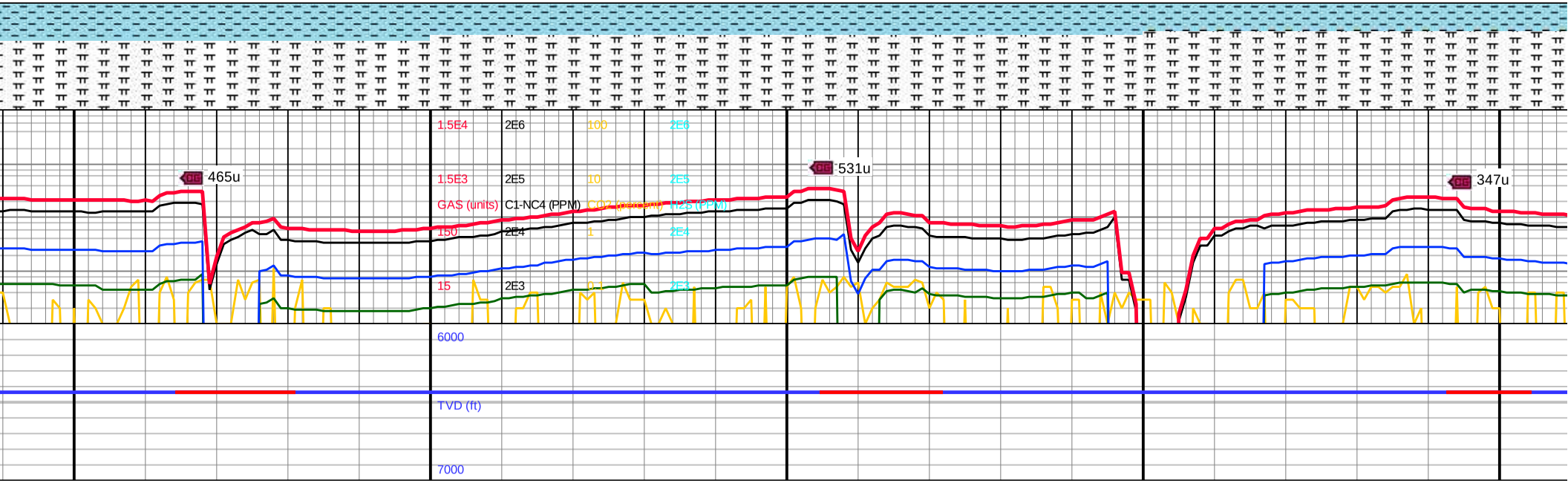


MD: 7,490'
INC: 90.19°
AZM: 89.0°
TVD: 6,436.53'
VS: 518.29'

MW IN: 9.5
VIS IN: 58
MW OUT: 9.5
VIS OUT: 56

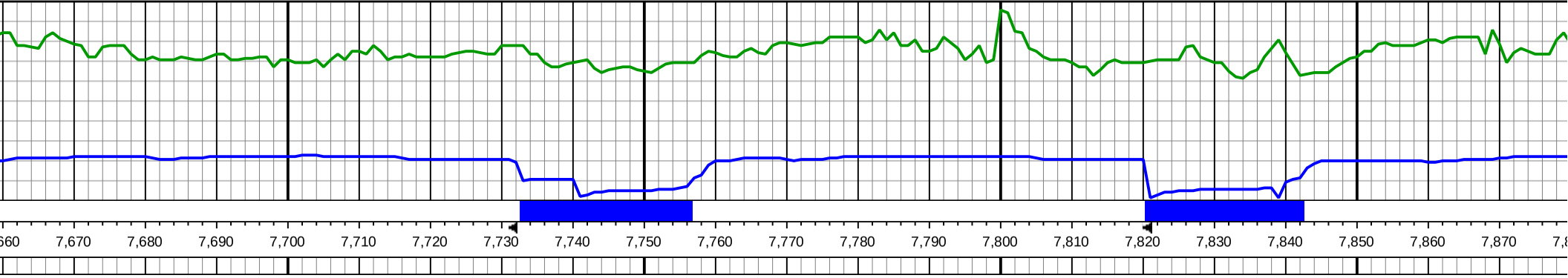
MD: 7,579'
INC: 90.53°
AZM: 89.4°
TVD: 6,435.98'
VS: 604.69'

WOB: 27k
RPM: 50
SPM: 204
PP: 4,022



65% MRLST: dk gry, sme dk-lt brn, frm-sl fri, blky-sb ang, sb plty, sb wxy lstr, calc; 35% CHK: lt gry-gry mot, tr offwht, fri, rthy tex, sb blky, arg, f mmica incl, calc

60% MRLST: dk gry, occ dk-lt brn, frm-sl fri, blky-sb ang, sb plty, sb wxy lstr, calc; 40% CHK: predy lt brn, lt gry-gry mot, sme offwht, fri, rthy tex, sb blky, arg, f mmica incl, calc



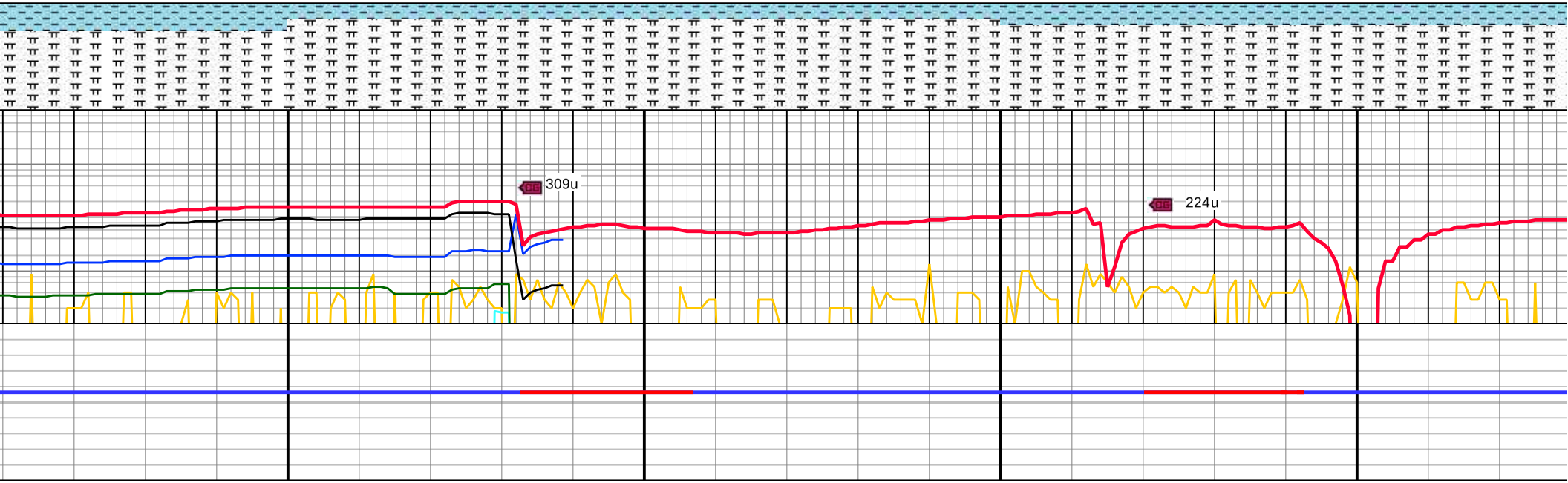
D: 7,666'
IC: 89.92°
ZM: 88.8°
VD: 6,435.63'
S: 689.1'

MW IN: 9.5
VIS IN: 57
MW OUT: 9.5
VIS OUT: 56

MD: 7,754'
INC: 92.11°
AZM: 88.2°
TVD: 6,434.07'
VS: 774.23'

WOB: 27k
RPM: 50
SPM: 204
PP: 3,996

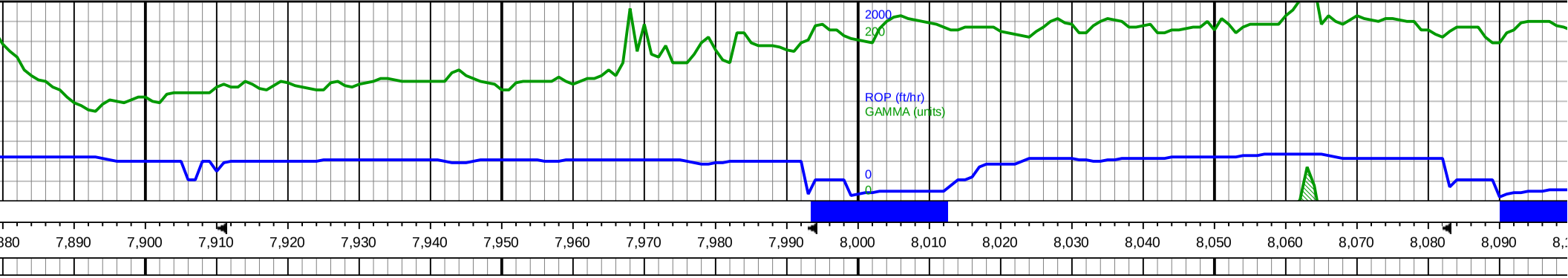
MD: 7,843'
INC: 88.93°
AZM: 86.9°
TVD: 6,433.27'
VS: 859.94'



75% MRLST: dk gry, occ dk-lt brn, frm-sl fri, blky-sb ang, sb plty, sb wxy lstr, calc; 25% CHK: predy lt brn, lt gry-gry mot, sme offwht, fri, rthy tex, sb blky, arg, f mmica incl, calc

85% MRLST: dk gry, occ dk-lt brn, frm-sl fri, blky-sb ang, sb plty, sb wxy lstr, calc; 15% CHK: predy lt brn, lt gry-gry mot, sme offwht, fri, rthy tex, sb blky, arg, f mmica incl, calc

80% M
dk-lt b
blky-s
wxy ls
lt gry-
fri, rth
mmica

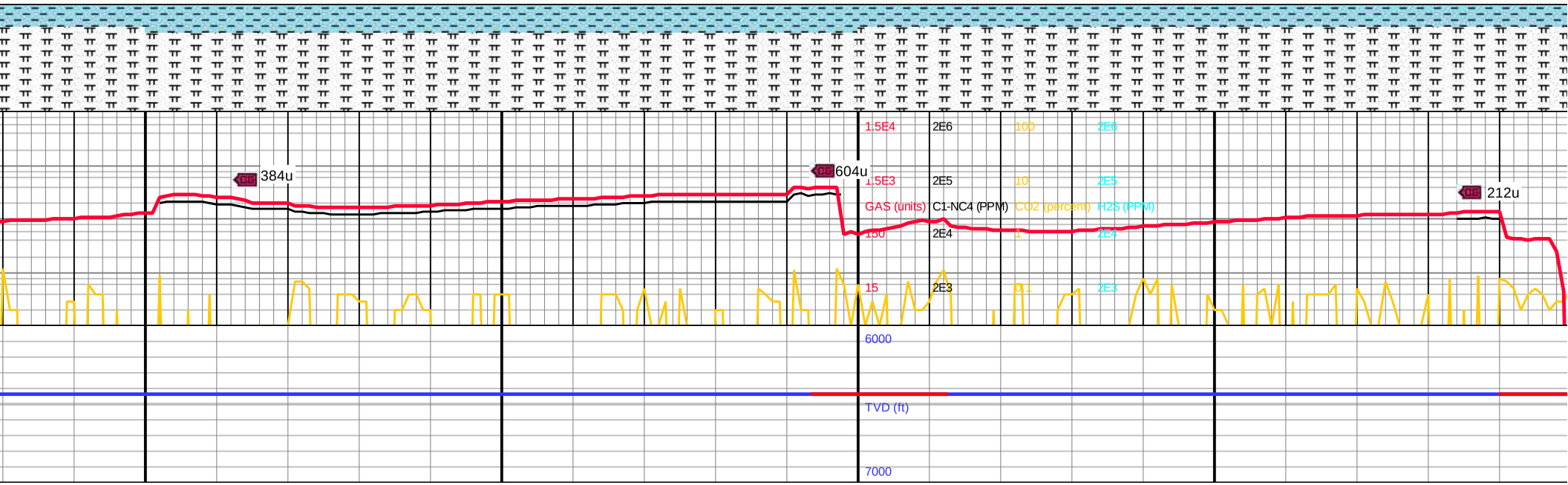


MD: 7,932'
INC: 88.66°
AZM: 86.4°
TVD: 6,435.14'
VS: 945.25'

MW IN: 9.6
VIS IN: 58
MW OUT: 9.5
VIS OUT: 57

WOB: 20k
RPM: 0
SPM: 204
PP: 3,274

MD: 8,021'
INC: 88.23°
AZM: 87.4°
TVD: 6,437.55'
VS: 1,030.67'

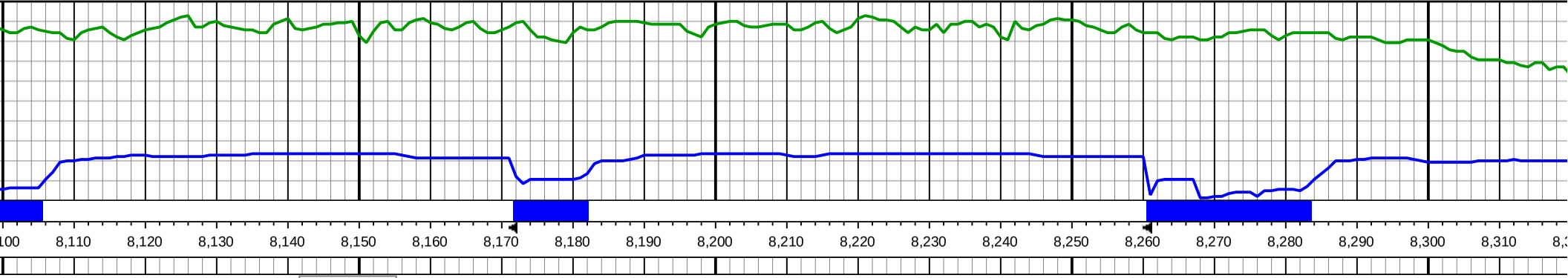


MRLST: dk gry, sme
rn, frm-sl fri,
b ang, sb plty, sb
tr, calc; 20% CHK:
gry mot, tr offwht,
y tex, sb blky, arg, f
a incl, calc

75% MRLST: dk gry, occ
dk-lt brn, frm-sl fri, blky-sb
ang, sb plty, sb wxy lstr,
calc; 25% CHK: predy lt brn,
lt gry-gry mot, sme offwht,
fri, rthy tex, sb blky, arg, f
mmica incl, calc

80% MRLST: dk gry, sme
dk-lt brn, frm-sl fri,
blky-sb ang, sb plty, sb
wxy lstr, calc; 20% CHK:
lt gry-gry mot, tr offwht,
fri, rthy tex, sb blky, arg, f
mmica incl, calc





MD: 8,110'
INC: 89.12°
AZM: 89.2°
TVD: 6,439.61'
VS: 1,116.69'

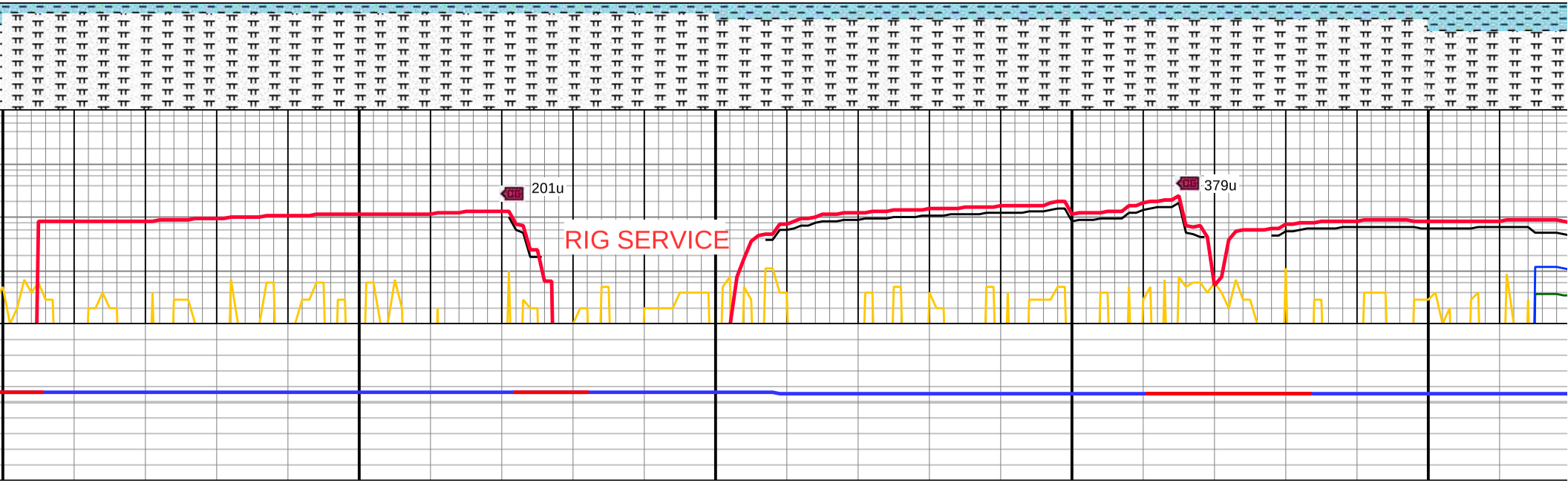
MW IN: 9.6
VIS IN: 57
MW OUT: 9.5
VIS OUT: 55

MD: 8,197'
INC: 89.22°
AZM: 87.7°
TVD: 6,440.87'
VS: 1,200.85'

WOB: 22k
RPM: 50
SPM: 204
PP: 3,932

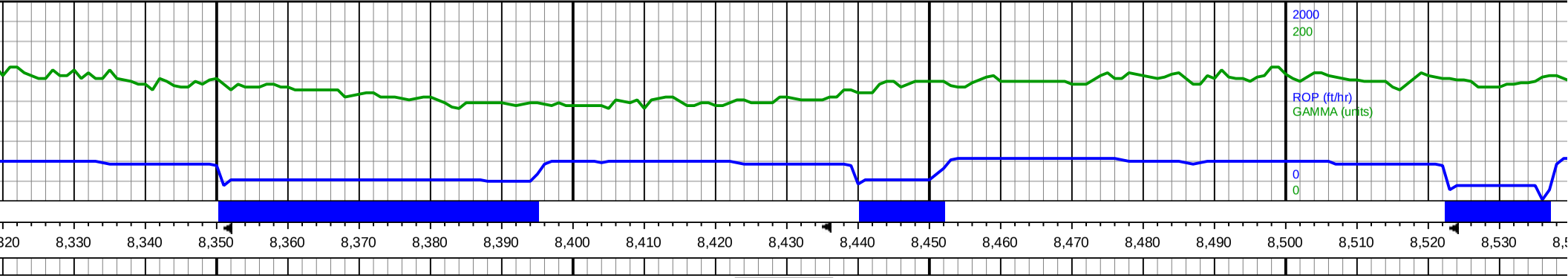
MD: 8,286'
INC: 90.41°
AZM: 89.8°
TVD: 6,441.16'
VS: 1,287.06'

SS



90% MRLST: dk gry, occ dk-lt brn, frm-sl fri, blky-sb ang, sb plty, sb wxy lstr, calc; 10% CHK: predy lt brn, lt gry-gry mot, sme offwht, fri, rthy tex, sb blky, arg, f mmica incl, calc

85% MRLST: predy dk gry, com mot wht, frm, blky- sb ang, plty, sb wxy lstr, calc; 15% CHK: predy lt brn, lt gry-gry mot, frm-fri, rthy tex, sb blky, arg, sme foram, carb

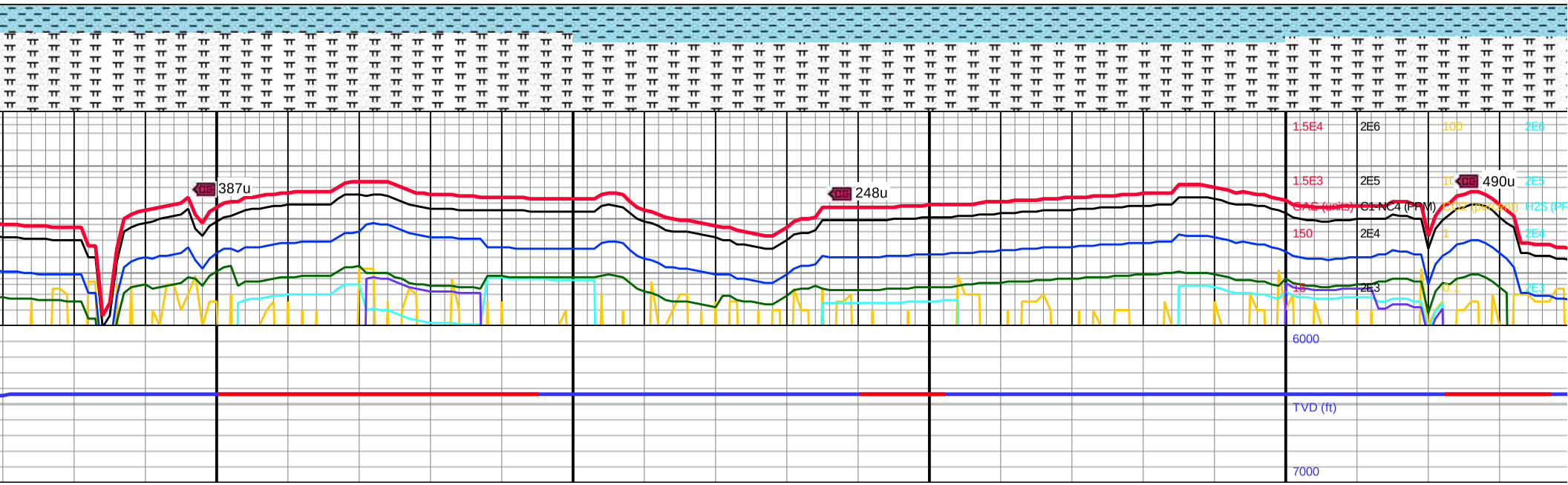


MD: 8,375'
INC: 90.41°
AZM: 89.0°
TVD: 6,440.52'
VS: 1,373.52'

WOB: 28k
RPM: 50
SPM: 204
PP: 4,085

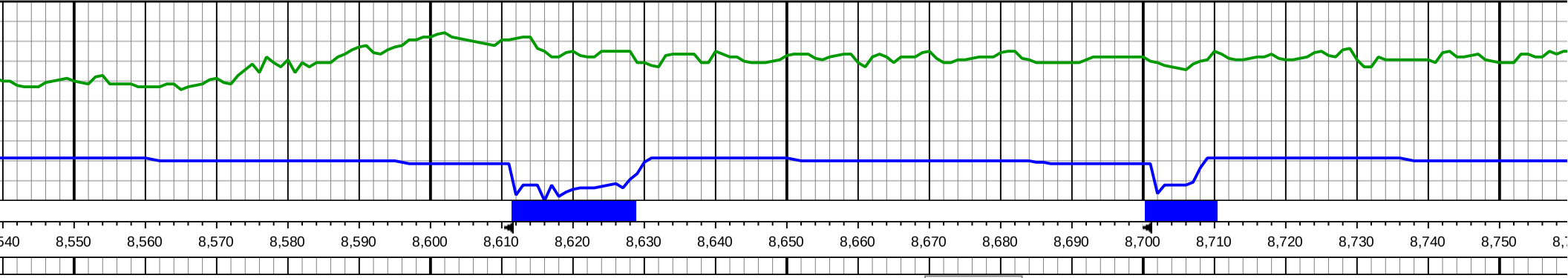
MW IN: 9.5
VIS IN: 58
MW OUT: 9.5
VIS OUT: 57

MD: 8,463'
INC: 90.72°
AZM: 88.6°
TVD: 6,439.66'
VS: 1,458.79'



75% MRLST: predy dk gry, com mot wht, frm, blky- sb ang, plty, sb wxy lstr, calc; 25% CHK: predy lt brn, lt gry-gry mot, frm-fri, rthy tex, sb blky, arg, sme foram, carb

65% MRLST: predy dk gry, com mot wht, frm-fri, blky- sb ang, sb wxy lstr, calc; 35% CHK: predy lt brn, lt gry-gry mot, frm-fri, rthy tex, sb blky, arg, carb



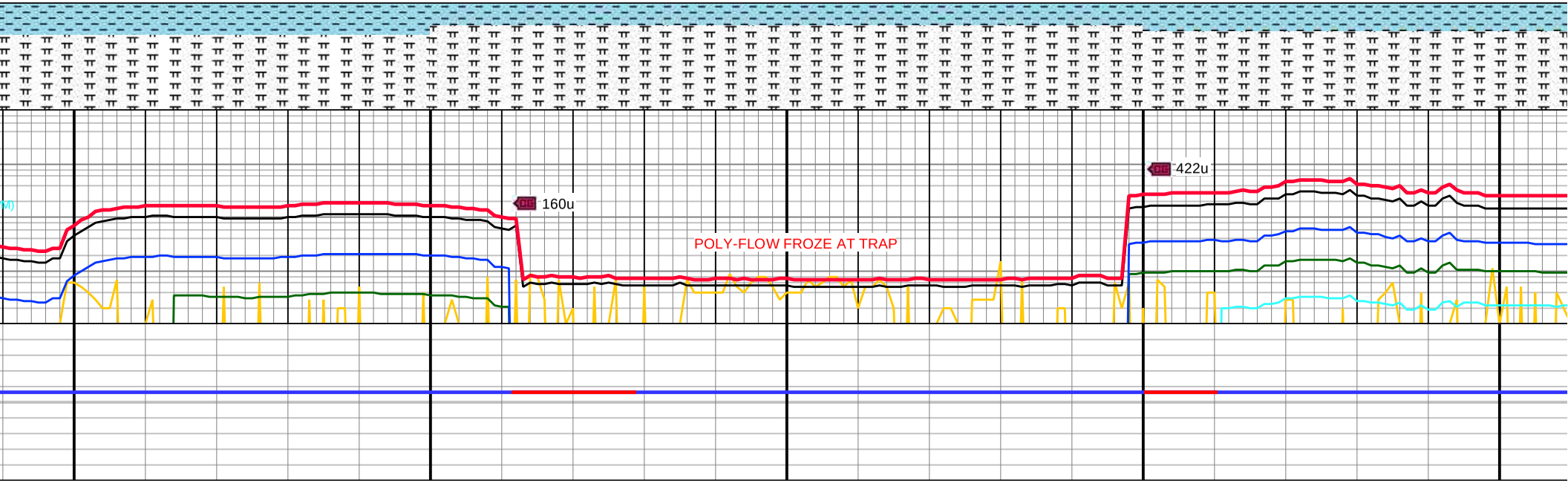
MD: 8,551'
INC: 90.83°
AZM: 88.1°
TVD: 6,438.46'
VS: 1,543.88'

WOB: 22k
RPM: 50
SPM: 204
PP: 3,990

MD: 8,640'
INC: 89.55°
AZM: 88.4°
TVD: 6,438.17'
VS: 1,629.89'

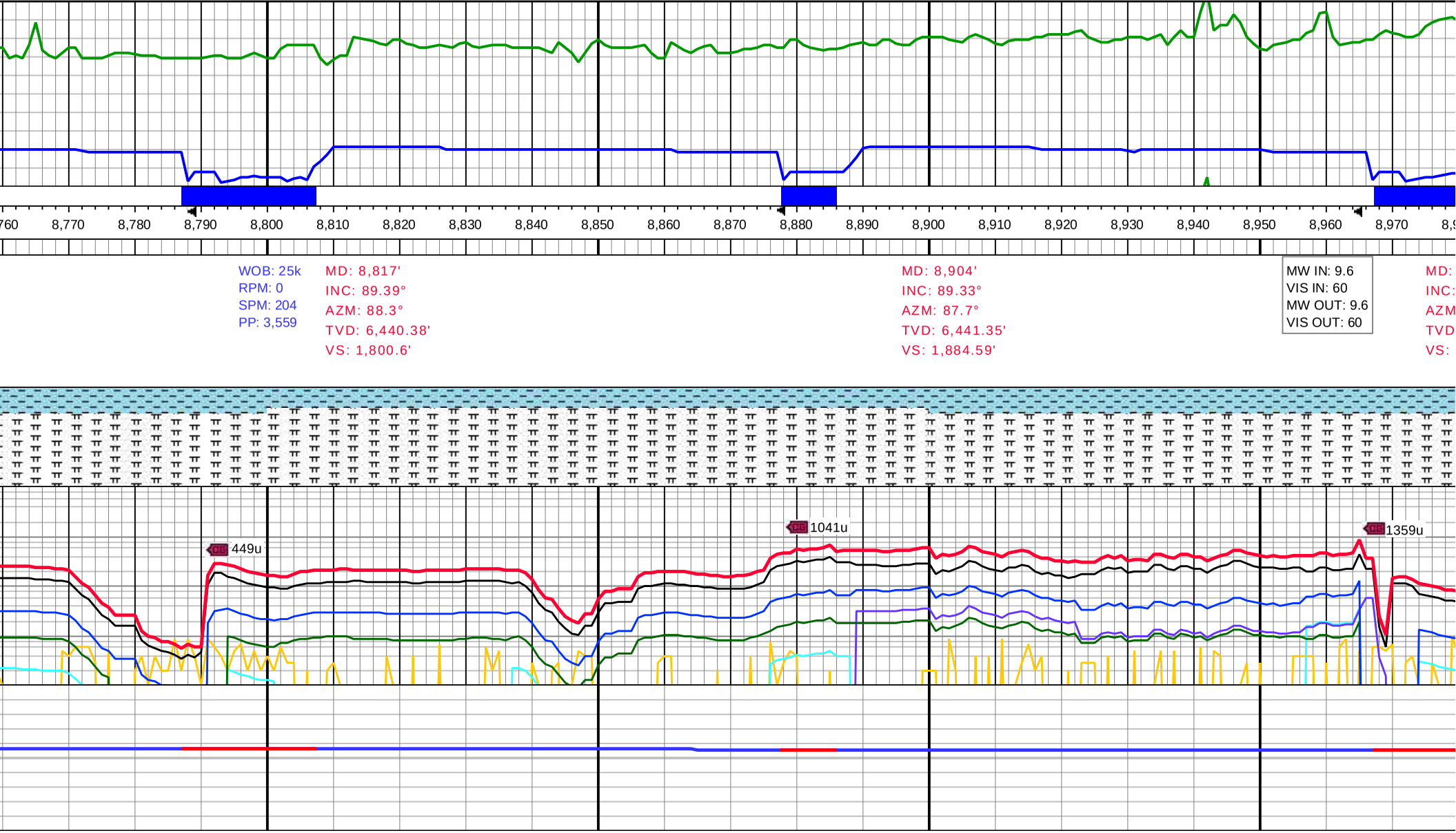
MW IN: 9.6
VIS IN: 69
MW OUT: 9.6
VIS OUT: 69

MD: 8,728'
INC: 89.1°
AZM: 87.3°
TVD: 6,439.21'
VS: 1,714.77'



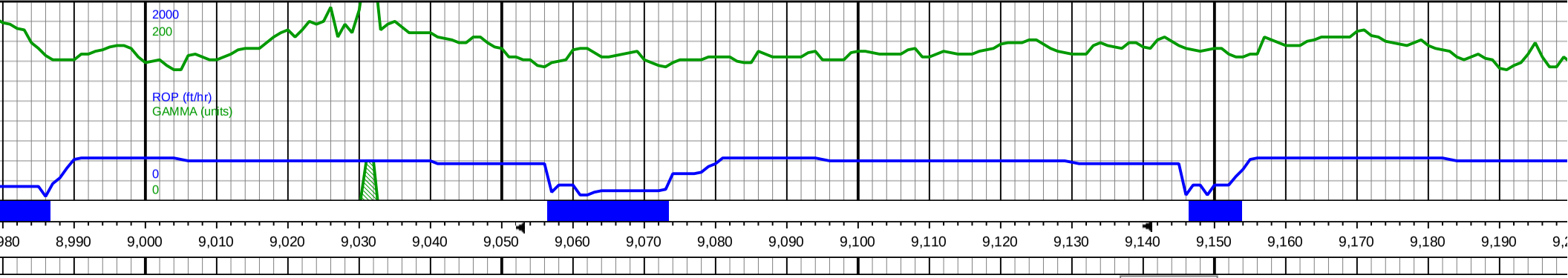
70% MRLST: predy dk gry, com mot wht, frm, blky- sb ang, plty, sb wxy lstr, calc; 30% CHK: predy lt brn, lt gry-gry mot, frm-fri, rthy tex, sb blky, arg, sme foram

80% MRLST: predy dk gry, com mot wht, frm, blky- sb ang, plty, sb wxy lstr, calc; 20% CHK: predy lt brn, lt gry-gry mot, sl frm-fri, rthy tex, sb blky, arg, sme foram, carb



75% MRLST: predy dk gry, com mot wht, frm, blky-sb ang, tr plty, sb wxy lstr, calc; 25% CHK: predy lt brn, lt gry-gry mot, frm-fri, rthy tex, sb blky, sli arg, sme foram

80% MRLST: predy dk gry, com mot wht, frm-fri, blky-sb ang, sb wxy lstr, calc; 20% CHK: predy lt brn, lt gry-gry mot, frm-fri, rthy tex, sb blky, arg, carb



8,992'
88.69°
: 89.3°
: 6,442.87'
1,969.73'

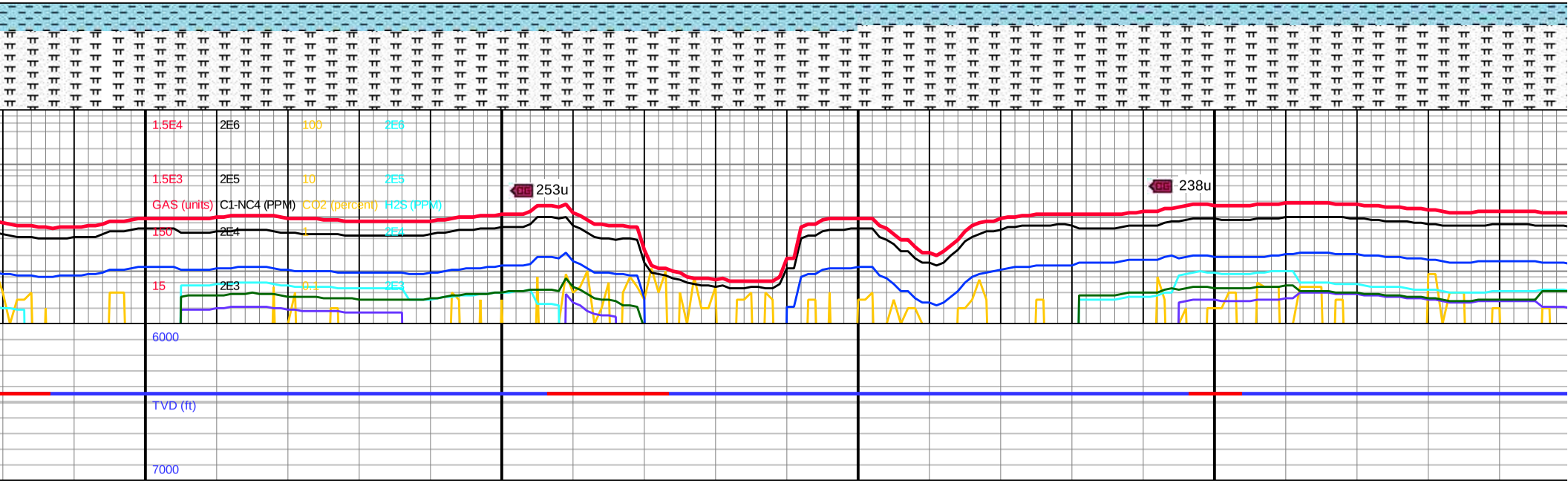
WOB: 25k
RPM: 50
SPM: 204
PP: 4,090

MD: 9,080'
INC: 90.36°
AZM: 89.1°
TVD: 6,443.6'
VS: 2,055.14'

MW IN: 9.6
VIS IN: 60
MW OUT: 9.6
VIS OUT: 60

MD: 9,169'
INC: 90.51°
AZM: 88.2°
TVD: 6,442.93'
VS: 2,141.31'

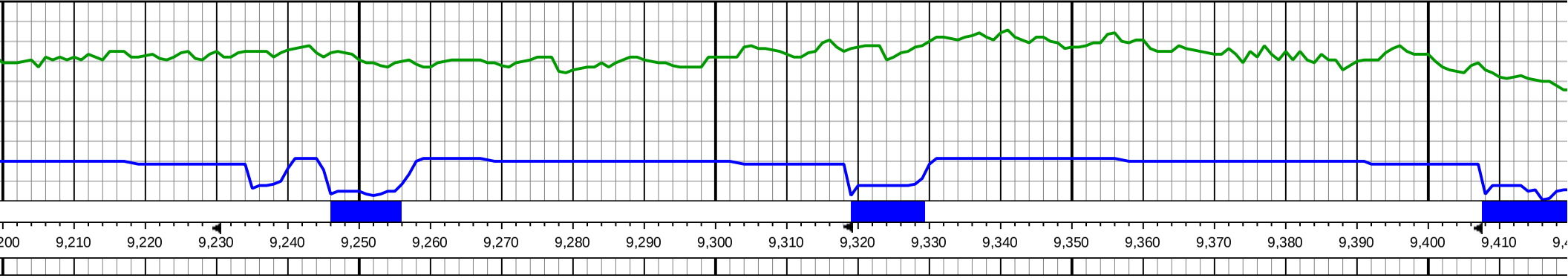
WO
RPM
SPM
PP:



RLST: predy dk gry,
ot wht, frm, blky- sb
y, sb wxy lstr, calc;
HK: predy lt brn, lt
mot, frm-fri, rthy tex,
, arg, sme foram

75% MRLST: predy dk gry, com mot wht, frm, blky- sb ang, plty, sb wxy lstr, calc; 25% CHK: predy lt brn, lt gry-gry mot, sl frm-fri, rthy tex, sb blky, arg, sme foram, carb

80% MRLST: predy dk gry, com mot wht, frm, blky-sb ang, tr plty, sb wxy lstr, calc; 20% CHK: predy lt brn, lt gry-gry mot, frm-fri, rthy tex, sb blky, sli arg, sme foram

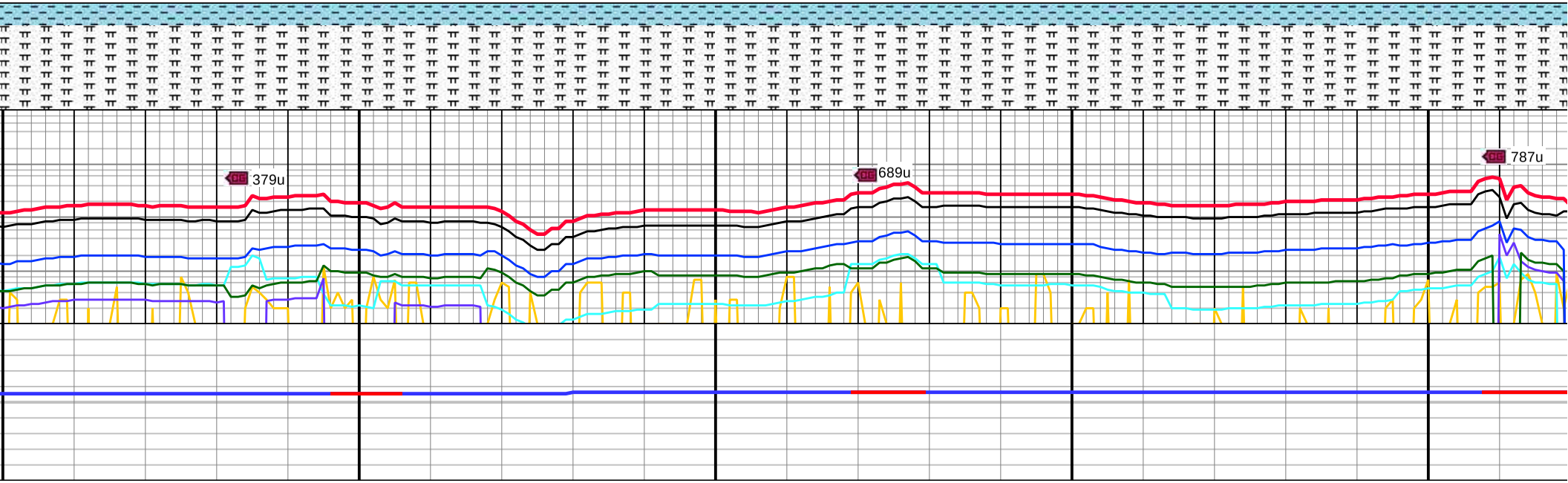


B: 25k
M: 50
M: 204
4,102

MD: 9,258'
INC: 91.32°
AZM: 88.6°
TVD: 6,441.5'
VS: 2,227.37'

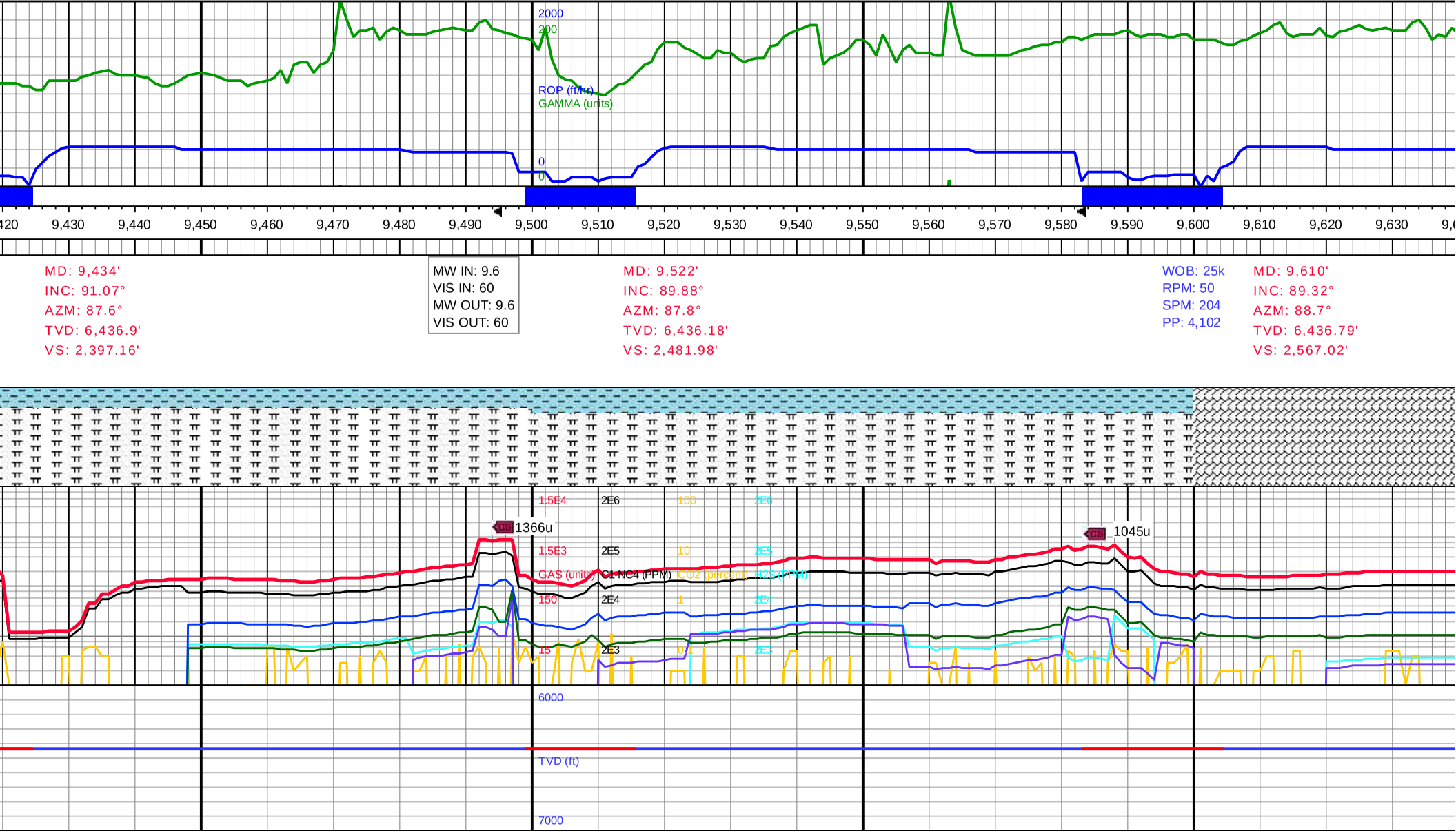
MD: 9,346'
INC: 91.8°
AZM: 87.7°
TVD: 6,439.11'
VS: 2,312.36'

WOB: 25k
RPM: 50
SPM: 204
PP: 4,102



80% MRLST: predy dk gry, com mot wht, frm-fri, blky-sb ang, sb wxy lstr, calc; 20% CHK: predy lt brn, lt gry-gry mot, frm-fri, rthy tex, sb blky, arg, carb

80% MRLST: predy dk gry, com mot wht, frm, blky- sb ang, plty, sb wxy lstr, calc; 20% CHK: predy lt brn, lt gry-gry mot, frm-fri, rthy tex, sb blky, arg, sme foram



MD: 9,434'
INC: 91.07°
AZM: 87.6°
TVD: 6,436.9'
VS: 2,397.16'

MW IN: 9.6
VIS IN: 60
MW OUT: 9.6
VIS OUT: 60

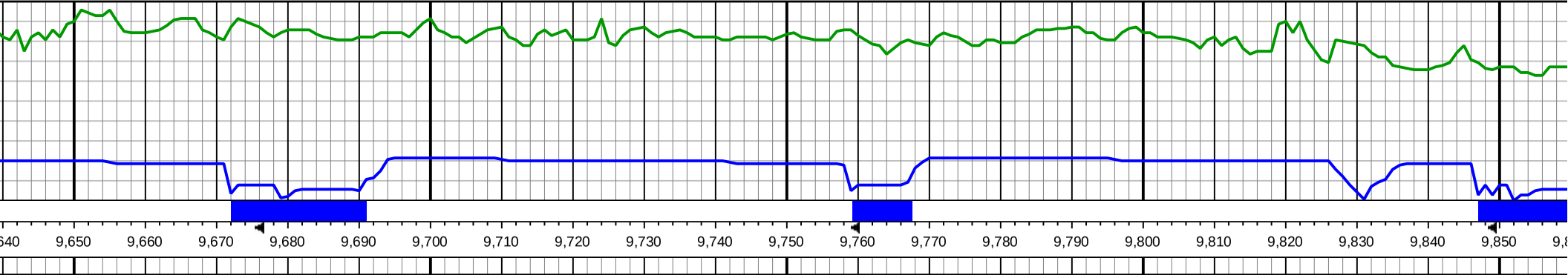
MD: 9,522'
INC: 89.88°
AZM: 87.8°
TVD: 6,436.18'
VS: 2,481.98'

WOB: 25k
RPM: 50
SPM: 204
PP: 4,102

MD: 9,610'
INC: 89.32°
AZM: 88.7°
TVD: 6,436.79'
VS: 2,567.02'

80% MRLST: predy dk gry, com mot wht, frm, blky-sb ang, tr plty, sb wxy lstr, calc; 20% CHK: predy lt brn, lt gry-gry mot, frm-fri, rthy tex, sb blky, sli arg, sme foram

75% MRLST: predy dk gry, com mot wht, frm, blky- sb ang, plty, sb wxy lstr, calc; 25% CHK: predy lt brn, lt gry-gry mot, sl frm-fri, rthy tex, sb blky, arg, sme foram

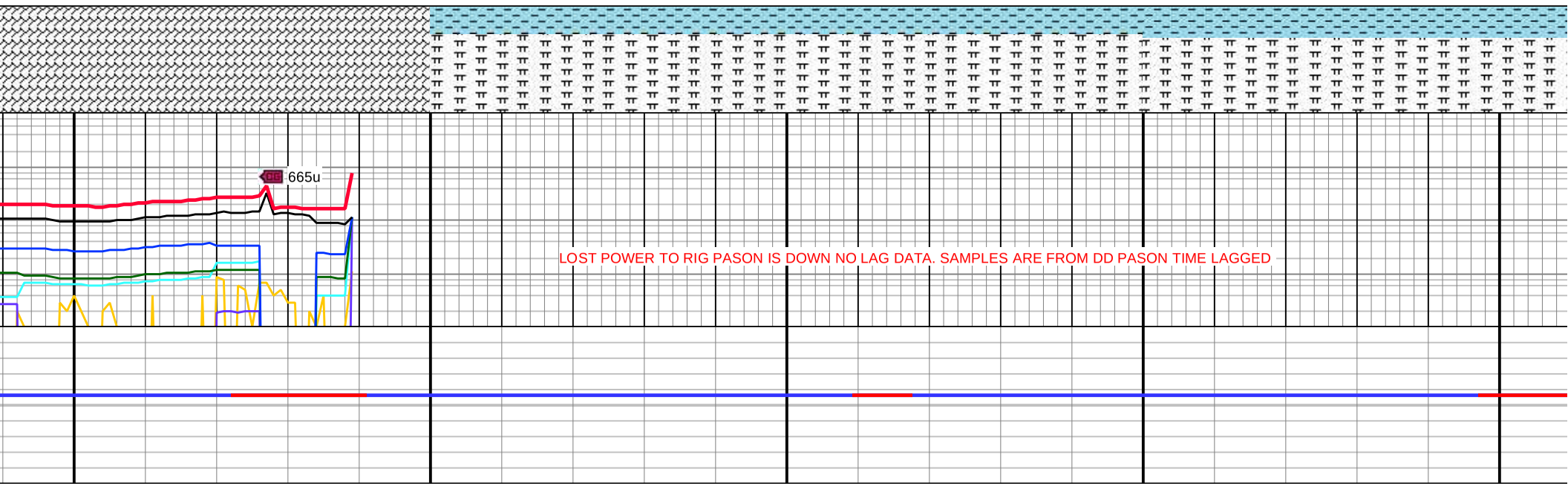


MD: 9,699'
INC: 90.16°
AZM: 90.4°
TVD: 6,437.19'
VS: 2,653.52'

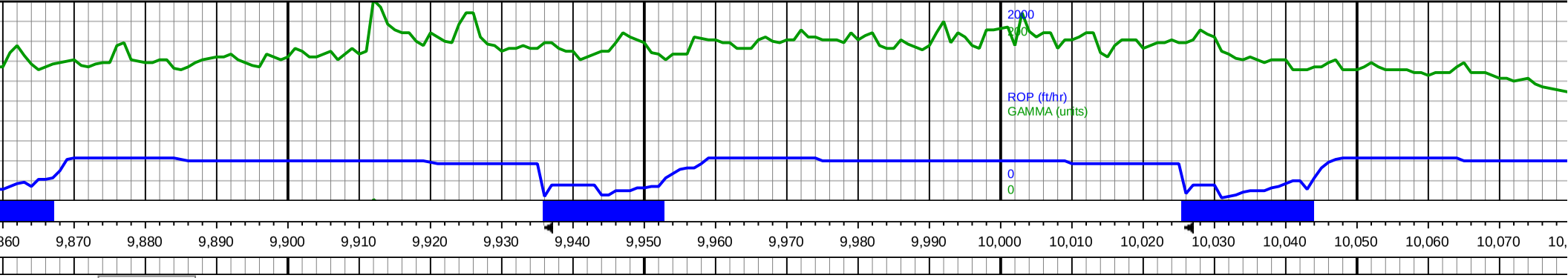
MD: 9,788'
INC: 90.08°
AZM: 88.6°
TVD: 6,437.01'
VS: 2,740'

WOB: 25k
RPM: 50
SPM: 204
PP: 4,102

MD: 9
INC: 9
AZM:
TVD:
VS: 2,



75% MRLST: predy dk gry, com mot wht, frm, blky- sb ang, plty, sb wxy lstr, calc; 25% CHK: predy lt brn, lt gry-gry mot, frm-fri, rthy tex, sb blky, arg, sme foram



,876'
0.03°
89.1°
6,436.92'
825.29'

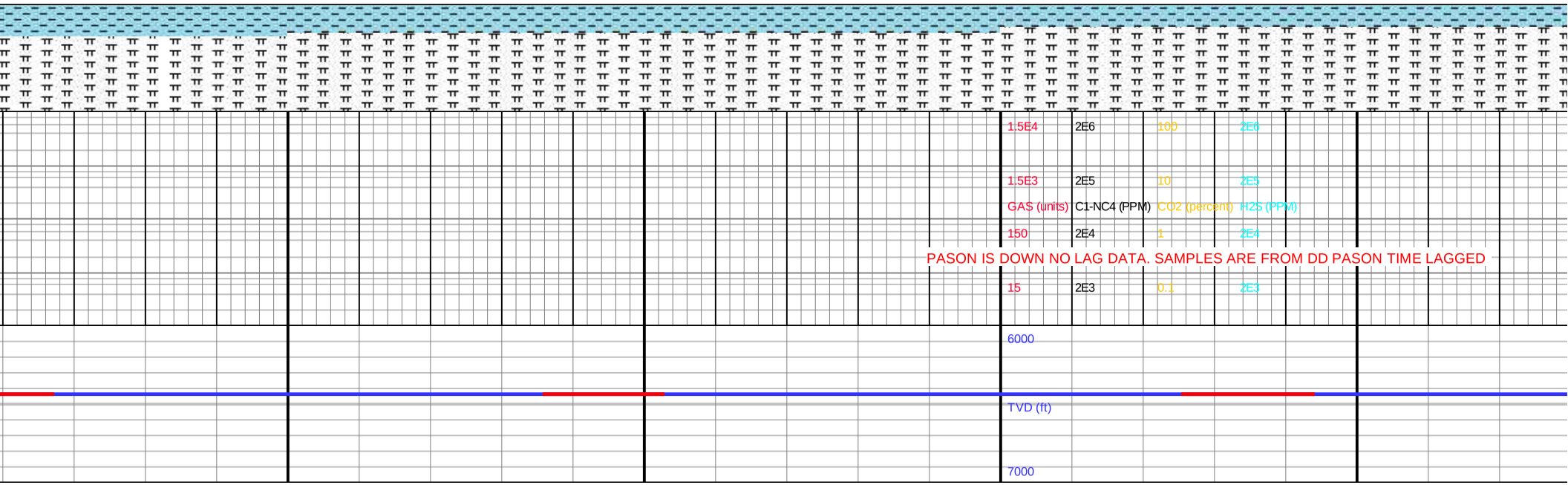
MW IN: 9.7
VIS IN: 60
MW OUT: 9.7
VIS OUT: 60

MD: 9,965'
INC: 89.68°
AZM: 89.8°
TVD: 6,437.15'
VS: 2,911.77'

WOB: 20k
RPM: 50
SPM: 204
PP: 4,098

RR

MD: 10,053'
INC: 90.81°
AZM: 88.3°
TVD: 6,436.77'
VS: 2,997.13'



PASON IS DOWN NO LAG DATA. SAMPLES ARE FROM DD PASON TIME LAGGED

70% MRLST: predy dk gry, com mot wht, frm, blky-sb ang, tr plty, sb wxy lstr, calc; 30% CHK: predy lt brn, lt gry-gry mot, frm-fri, rthy tex, sb blky, sli arg, sme foram

75% MRLST: predy dk gry, com mot wht, frm-fri, blky-sb ang, sb wxy lstr, calc; 25% CHK: predy lt brn, lt gry-gry mot, frm-fri, rthy tex, sb blky, arg, carb

80% M
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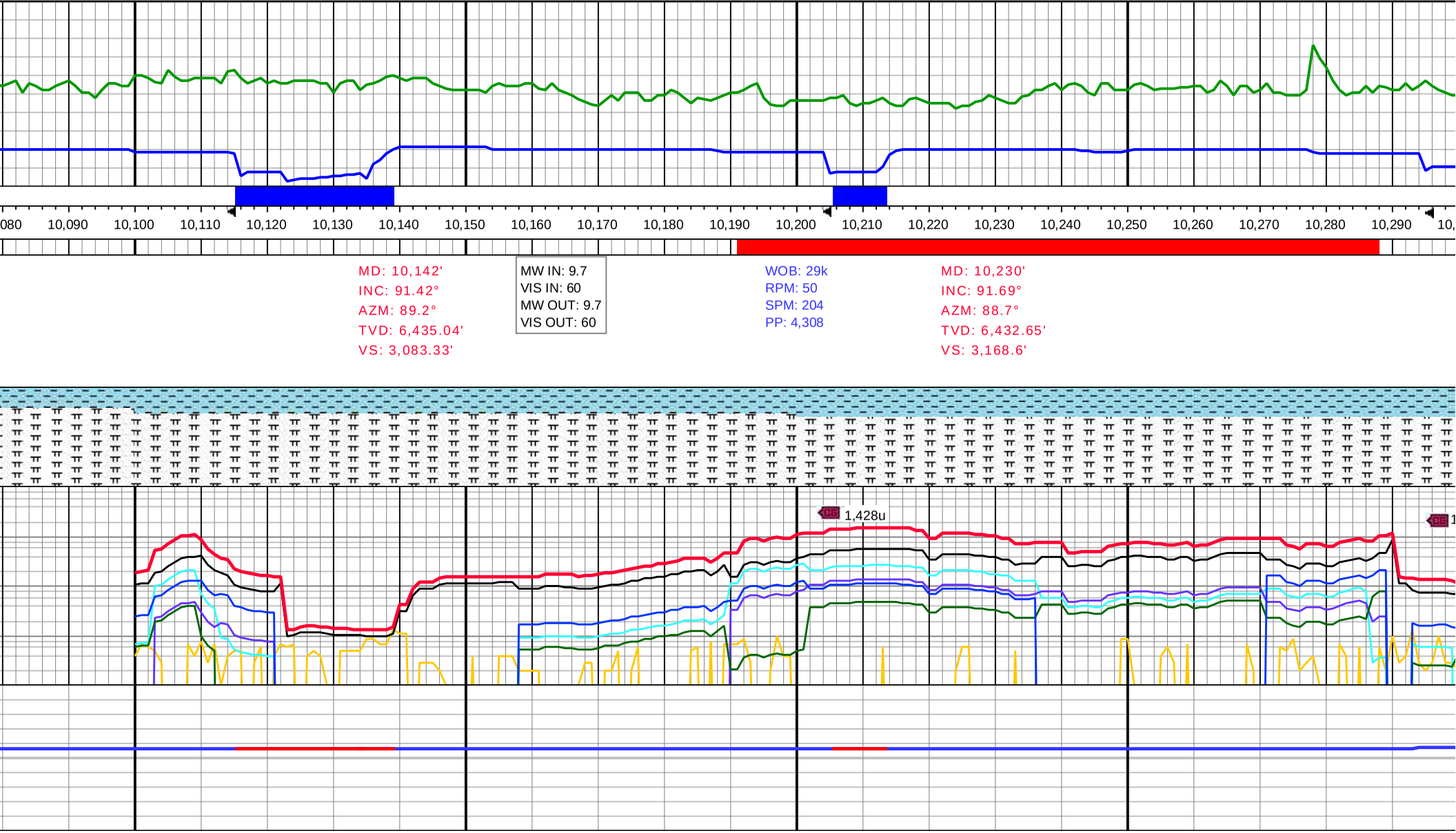
sme fo

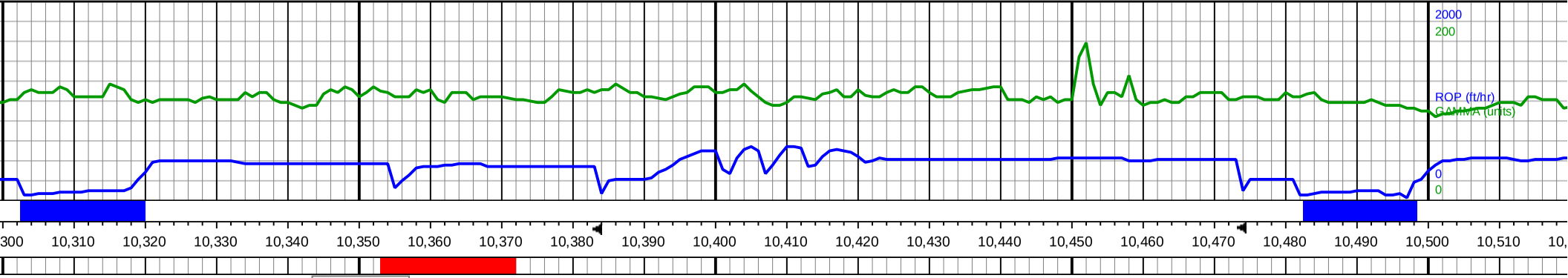


MRLST: predy dk gry, not wht, frm, blky-sb r plty, sb wxy lstr, 20% CHK: predy lt gry-gry mot, frm-fri, ex, sb blky, sli arg, oram

75% MRLST: predy dk gry, com mot wht, frm-fri, blky-sb ang, sb wxy lstr, calc; 25% CHK: predy lt brn, lt gry-gry mot, frm-fri, rthy tex, sb blky, arg, carb

70% MRLST: predy dk gry, com mot wht, frm, blky-sb ang, tr plty, sb wxy lstr, calc; 30% CHK: predy lt brn, lt gry-gry mot, frm-fri, rthy tex, sb blky, sli arg, sme foram





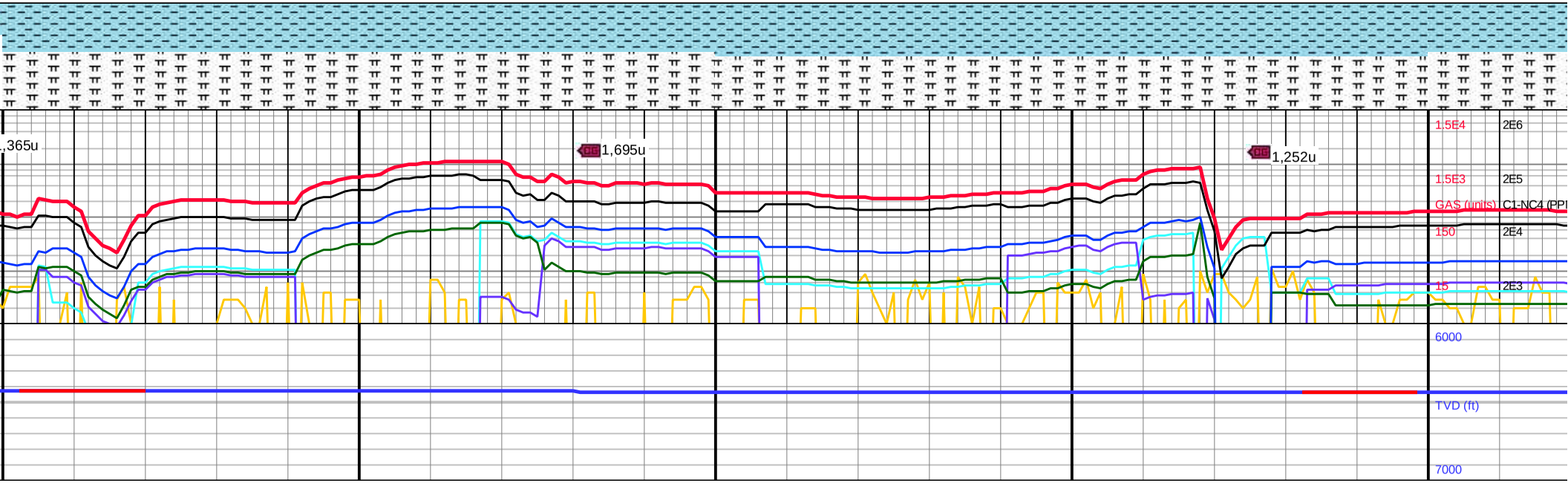
MD: 10,319'
INC: 89.8°
AZM: 89.6°
TVD: 6,431.49'
VS: 3,254.96'

MW IN: 9.7
VIS IN: 59
MW OUT: 9.6
VIS OUT: 56

WOB: 37k
RPM: 50
SPM: 203
PP: 4,613

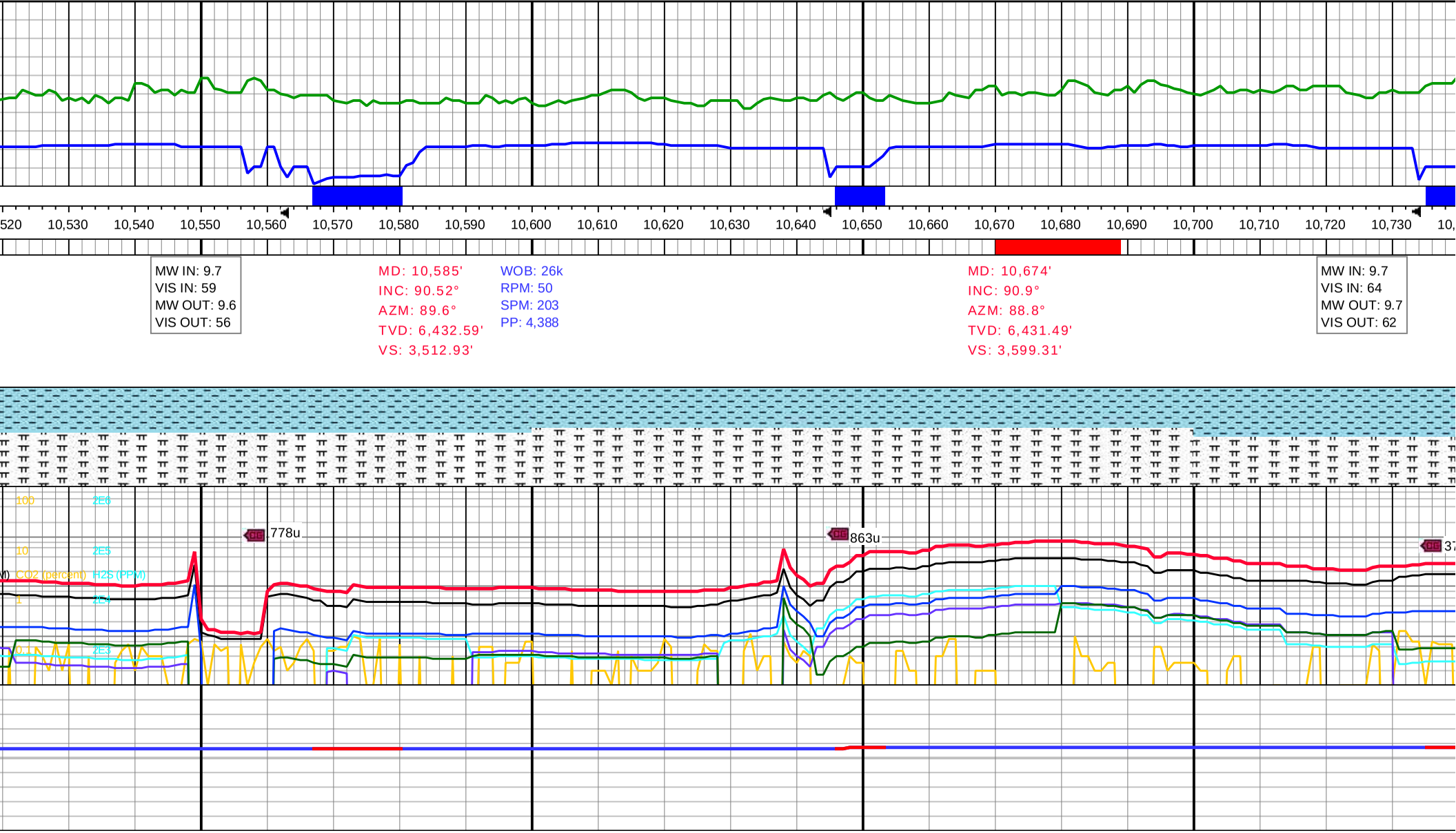
MD: 10,407'
INC: 89.6°
AZM: 88.8°
TVD: 6,431.96'
VS: 3,340.38'

MD: 10,496'
INC: 89.53°
AZM: 88.6°
TVD: 6,432.63'
VS: 3,426.58'



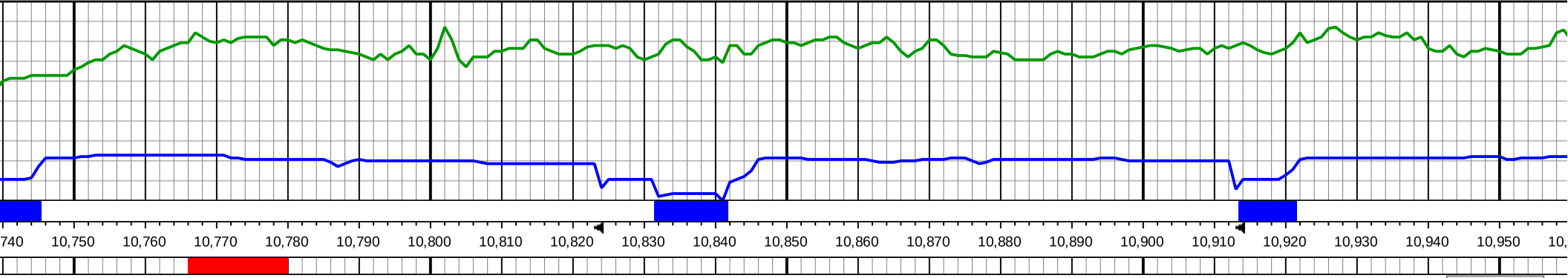
55% MRLST: dk gry, occ dk-lt brn, frm-sl fri, blky-sb ang, sb plty, sb wxy lstr, calc; 45% CHK: predy lt brn, lt gry-gry mot, sme offwht, fri, rthy tex, sb blky, arg, f mmica incl, calc

50% MRLST: predy dk gry, com mot wht, frm-fri, blky-sb ang, sb wxy lstr, calc; 50% CHK: predy lt brn, lt gry-gry mot, frm-fri, rthy tex, sb blky, arg, carb



55% MRLST: predy dk gry, com mot wht, frm, blky-sb ang, tr plty, sb wxy lstr, calc; 45% CHK: predy lt brn, lt gry-gry mot, frm-fri, rthy tex, sb blky, sli arg, sme foram

60% MRLST: dk gry, occ dk-lt brn, frm-sl fri, blky-sb ang, sb plty, sb wxy lstr, calc; 40% CHK: predy lt brn, lt gry-gry mot, sme offwht, fri, rthy tex, sb blky, arg, f mmica incl, calc

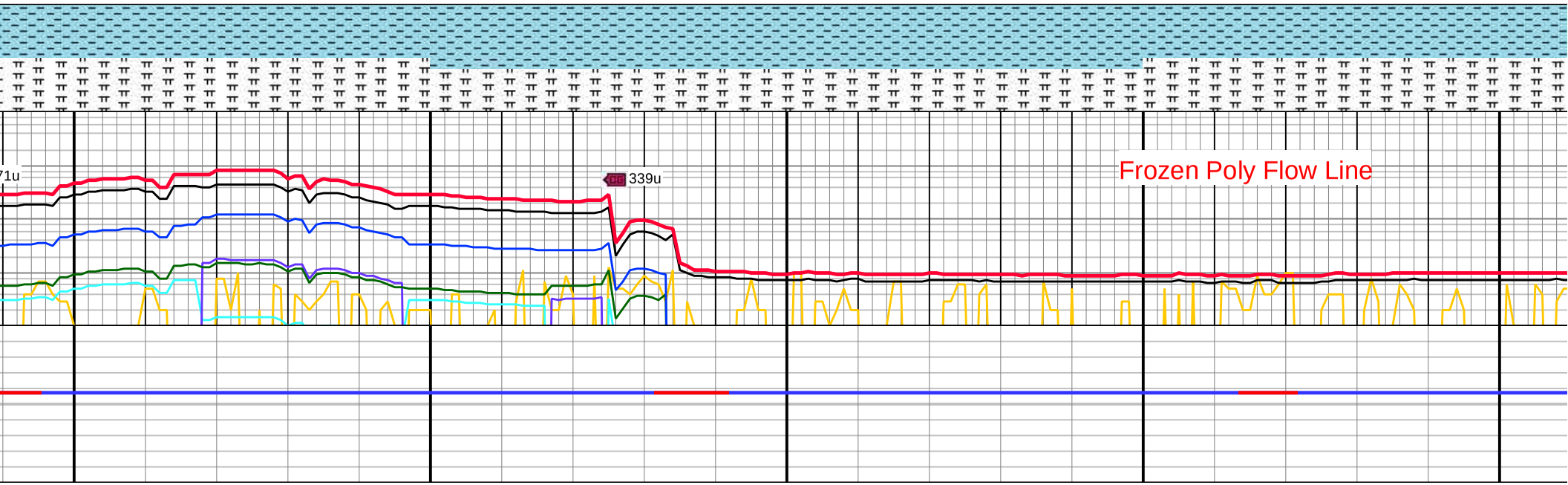


MD: 10,763'
INC: 90.93°
AZM: 88.0°
TVD: 6,430.07'
VS: 3,685.39'

WOB: 35k
RPM: 50
SPM: 204
PP: 4,463

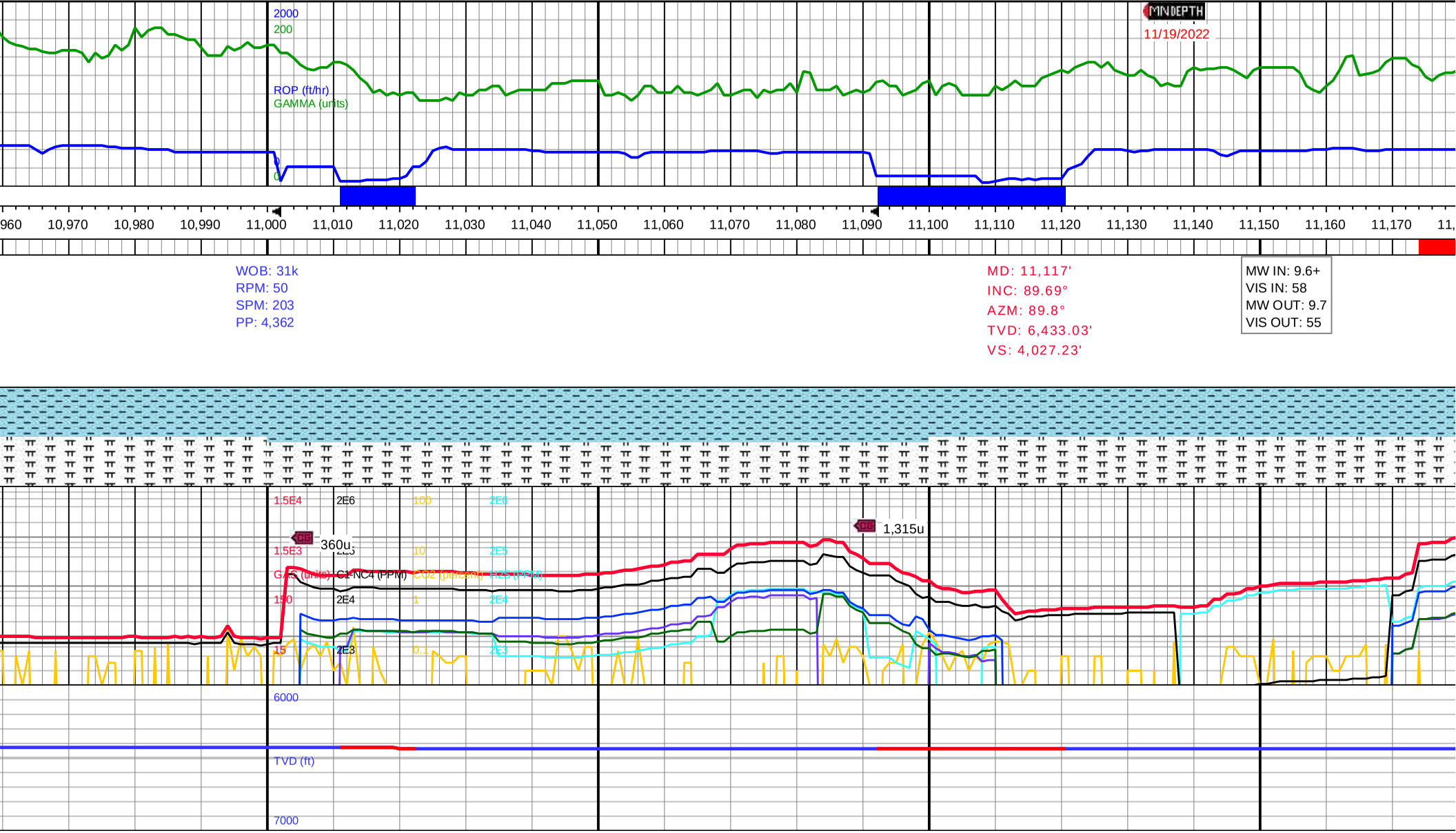
MD: 10,852'
INC: 89.49°
AZM: 88.1°
TVD: 6,429.74'
VS: 3,771.32'

MW IN: 9.7
VIS IN: 58
MW OUT: 9.7
VIS OUT: 56



50% MRLST: predy dk gry, com mot wht, frm-fri, blky-sb ang, sb wxy lstr, calc; 50% CHK: predy lt brn, lt gry-gry mot, frm-fri, rthy tex, sb blky, arg, carb

60% CHK: predy lt brn, lt gry-gry mot, sme offwht, frm-fri, sb blky, arg, carb, tr free chk frags; 40% MRLST: predy dk gry, occ dk-lt brn, com mot wht, frm, blky-sb ang, sb plty, calc



50% MRLST: predy dk gry, com mot wht, frm, blky-sb ang, tr plty, sb wxy lstr, calc; 50% CHK: predy lt brn, lt gry-gry mot, frm-fri, rthy tex, sb blky, sli arg, sme foram

55% CHK: predy lt brn, lt gry-gry mot, sme offwht, frm-fri, sb blky, arg, carb, tr free chk frags; 45% MRLST: predy dk gry, occ dk-lt brn, com mot wht, frm, blky-sb ang, sb plty, calc

50% M
com m
ang, t
calc; 5
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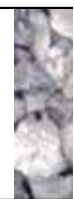
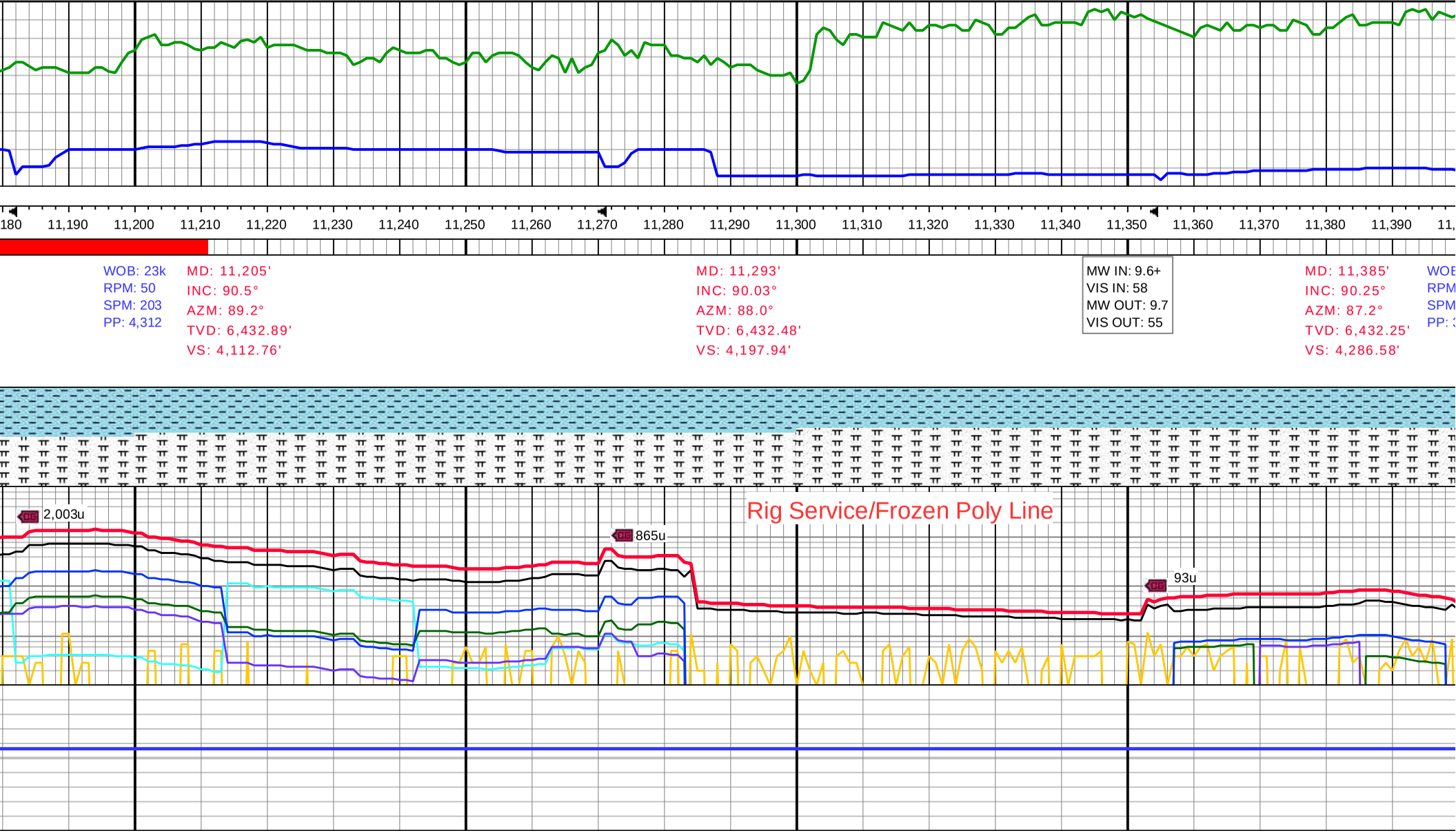
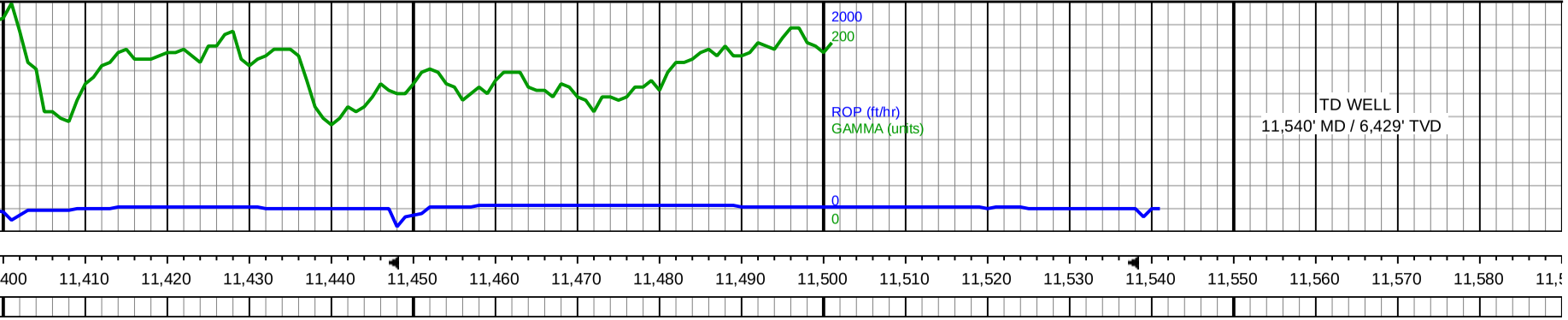




MRLST: predy dk gry, ot wht, frm, blky-sb plty, sb wxy lstr, 0% CHK: predy lt gry-gry mot, frm-fri, x, sb blky, sli arg, oram

55% MRLST: predy dk gry, com mot wht, frm, blky-sb ang, tr plty, sb wxy lstr, calc; 45% CHK: predy lt brn, lt gry-gry mot, frm-fri, rthy tex, sb blky, sli arg, sme foram

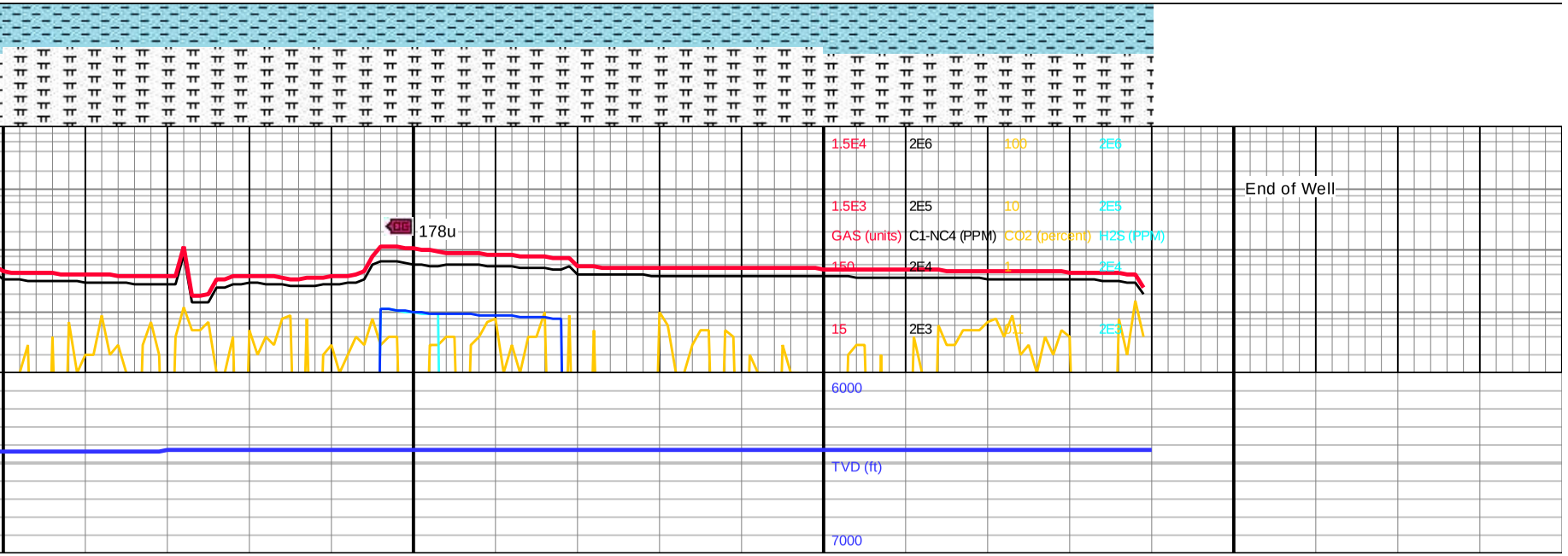
60% CHK: predy lt brn, lt gry-gry mot, sme offwht, frm-fri, sb blky, arg, carb, t free chk frags; 40% MRLST predy dk gry, occ dk-lt brn, com mot wht, frm, blky-sb ang, sb plty, calc



3: 6k
: 50
: 172
3,013

MD: 11,480'
INC: 91.18°
AZM: 86.6°
TVD: 6,431.07'
VS: 4,377.79'

Projection to bit:
MD: 11,540'
INC: 91.18°
AZM: 86.6°
TVD: 6,429.83'
VS: 4,435.3'



65% MRLST: predy dk gry, com mot wht, frm-fri, blky-sb ang, sb wxy lstr, calc; 35% CHK: predy lt brn, lt gry-gry mot, frm-fri, rthy tex, sb blky, arg, carb

60% CHK: predy lt brn, lt gry-gry mot, sme offwht, frm-fri, sb blky, arg, carb, tr free chk frags; 40% MRLST: predy dk gry, occ dk-lt brn, com mot wht, frm, blky-sb ang, sb plty, calc