Schlumberger

Company: **3D Oil Limited**

Well: **Wardie−1**
Field: **Exploration**
Rig: **West Triton** Country: **Australia**

Rig: West Triton
Field: Exploration
Location: Vic P/57, Bass Strait
Well: Wardie−1
Company: 3D Oil Limited

MDT−GR
SAMPLING
Suite 1 Run 2

LOCATION

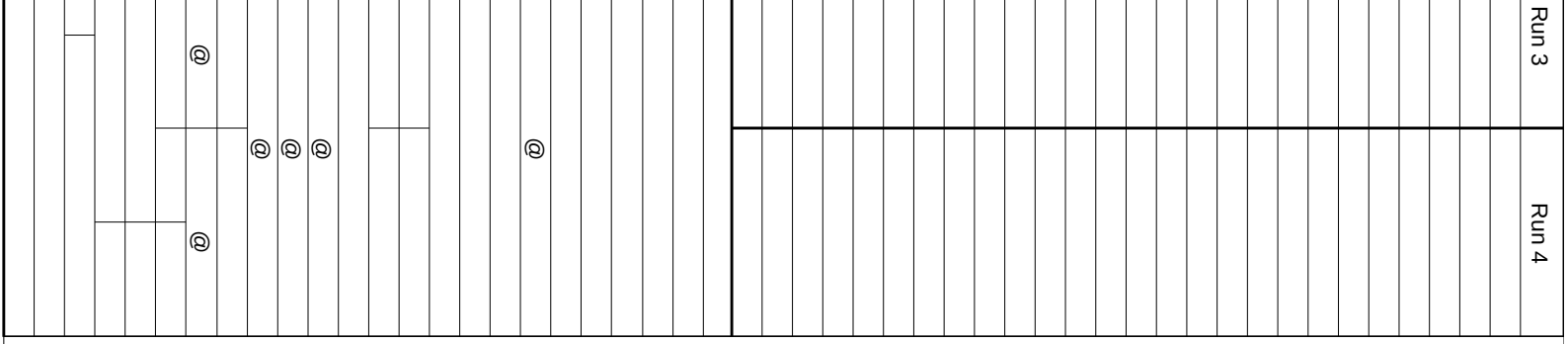
Vic P/57, Bass Strait
N 5771046.028 m, E 554227.625 m

Elev.: K.B. 38 m
G.L. −39.5 m
D.F. 38 m

Permanent Datum: MSL — Elev.: 0 m
Log Measured From: Drill Floor — 38.0 m above Perm. Datum
Drilling Measured From: Drill Floor

State: Victoria	Max. Well Deviation 34.9 deg	Longitude E 147 37' 9.793"	Latitude S 38 12' 24.881"

	Run 1	Run 2
Logging Date	20−May−2008	
Run Number	2	
Depth Driller	1766 m	
Schlumberger Depth	1760 m	
Bottom Log Interval	1681.5 m	
Top Log Interval	1573.8 m	
Casing Driller Size @ Depth	13.375 in @ 747.2 m	@
Casing Schlumberger	746.5 m	
Bit Size	12.250 in	
Type Fluid In Hole	KCl Polymer	
MUD Density / Viscosity	1.12 g/cm3 / 56 s	
MUD Fluid Loss / PH	5.2 cm3 / 9	
MUD Source Of Sample	Flow Line	
RM @ Measured Temperature	0.112 ohm.m @ 20.2 degC	@
RMF @ Measured Temperature	0.099 ohm.m @ 19.8 degC	@
RMC @ Measured Temperature	0.130 ohm.m @ 20.7 degC	@
Source RMF / RMC	Press / Press	
RM @ MRT / RMF @ MRT	0.060 @ 56 / 0.054 @ 56	@ / @
Maximum Recorded Temperatures	57 degC / 57 / 57	
Circulation Stopped / Time	19−May−2008 / 14:45	
Logger On Bottom / Time	20−May−2008 / 17:16	
Unit Number / Location	41 / AUSL	
Recorded By	Ashraf Dandi, Malik Jahangir	
Witnessed By	Simon Ward, Bill Leask	



DEPTH SUMMARY LISTING

Date Created: 21−JUL−2008 21:05:52

Depth System Equipment

Depth Measuring Device		Tension Device		Logging Cable	
Type:	IDW−H	Type:	CMTD−B/A	Type:	7−46ZV−XS
Serial Number:	796	Serial Number:	1721	Serial Number:	77178
Calibration Date:	29−Jan−2008	Calibration Date:	27−Feb−2008	Length:	7315.20 M
Calibrator Serial Number:	1009	Calibrator Serial Number:	1051		
Calibration Cable Type:	7−46ZV−XS	Calibration Gain:	0.81	Conveyance Method:	Wireline
Wheel Correction 1:	−5	Calibration Offset:	−610.00	Rig Type:	Offshore_Fixed
Wheel Correction 2:	−5				

Depth Control Parameters

Log Sequence:	First Log In the Well
Rig Up Length At Surface:	78.22 M
Rig Up Length At Bottom:	78.12 M
Rig Up Length Correction:	0.10 M
Stretch Correction:	1.90 M
Tool Zero Check At Surface:	0.90 M

Depth Control Remarks

1. First Run in hole , all schlumberger depth control procedures followed
2. IDW used as a primary depth reference , Z Chart as a secondary
3.
4.
5.
6.

OTHER SERVICES1
OS1: BHC−HRLA−PEX−GF
OS2:
OS3:
OS4:
OS5:

REMARKS:

Tool String run as per tool sketch.

Quartz Gauge corrections applied (QGCA=Both, QGFD=1G/C3, QGDA=Deviation).

Large Diameter Probe was used. ECRD Weak Point was used in the head.

Maximum recorded temperature was 57.2 degC obtained from LEH−QT thermometers (3 max reading thremometers run at client request)

Quartz Gauge calibrated on 20−June−2007; Strain Gauge calibrated on 12−Apr−2007.

Did not tag TD. Lowest pretest station was at 1681.5m

Depth correlated to primary log pass BHC−HRLA−PEX−GR, Suite 1, Run 1, dated 20−May−2008.

Pump−outs were attempted at 4 stations at client request:

− Station @ 1574.01m: Tried to pump out but low mobility point. Inconclusive test − probably filtrate.

− Station @ 1582.40m: 2x 450cc fluid samples were taken after the LFA confirmed oil.

− Station @ 1583.98m: Pumped out and confirmed oil.

− Station @ 1593.70m: Pumped out with indications of oil on LFA. Pump began to plug up during pump−out so took an "insurance" sample even though the fluid had not cleaned up. Unable to clear pump of blockage after retracting tool. No further pump out or sampling was possible.

Mud properties taken from Daily Mud Report #11 for 19−May−2008.

Chlorides = 38,000 mg/l, KCl = 8.0 (% by weight).

Barite = 0.1 (% by vol).

RUN 1			RUN 2		
SERVICE ORDER #:			SERVICE ORDER #:		
PROGRAM VERSION:		15C0−309	PROGRAM VERSION:		
FLUID LEVEL:		0 m	FLUID LEVEL:		
LOGGED INTERVAL	START	STOP	LOGGED INTERVAL	START	STOP

EQUIPMENT DESCRIPTION

RUN 1 RUN 2

SURFACE EQUIPMENT

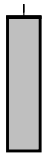
MRPP−AA 666
GSR−U/Y
WITM (CTS)−A

DOWNHOLE EQUIPMENT

LEH−QT 2800 — 19.11
LEH−QT

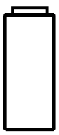
TCC−BF 1109 — 18.23
ECH−KC 2653
TCC−BF 1109

TelStatus — 16.88



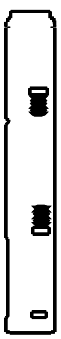
SGT−L — 17.31
SGH−K 403
SGC−SA 735
SGD−TAA

Gamma Ray — 16.60



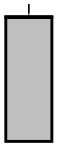
MRPC — 15.63
MRPC−CA 619

PC — 13.69



MRMS_1 — 14.12
BOTT_6−AA 3457
BOTT_5−AA 3456
BOTT_4−AA 3455
BOTT_3−AA 3454
BOTT_2−AA 3300
BOTT_1−AA 3349
MRMS_1−NCB

MS1 — 9.67

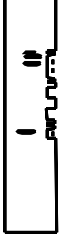


AFA — 10.10
MRFA−FA 8552

FA−BA — 8.12

MRPO_UD — 8.55

MRPOUD−DU−AA
MRPOUD−CA 492



POUD ___ 4.88

MRHY_1 5.31
MRHY_1−BA 553

HY1 ___ 2.31

MRPQ_1 2.74
MRLD−CA 119
MRPQ_1−DBZ 125

DF
PQ1−CQG−G HV
PQ1−RES
Tension PQ1 ___ TOOL ZERO

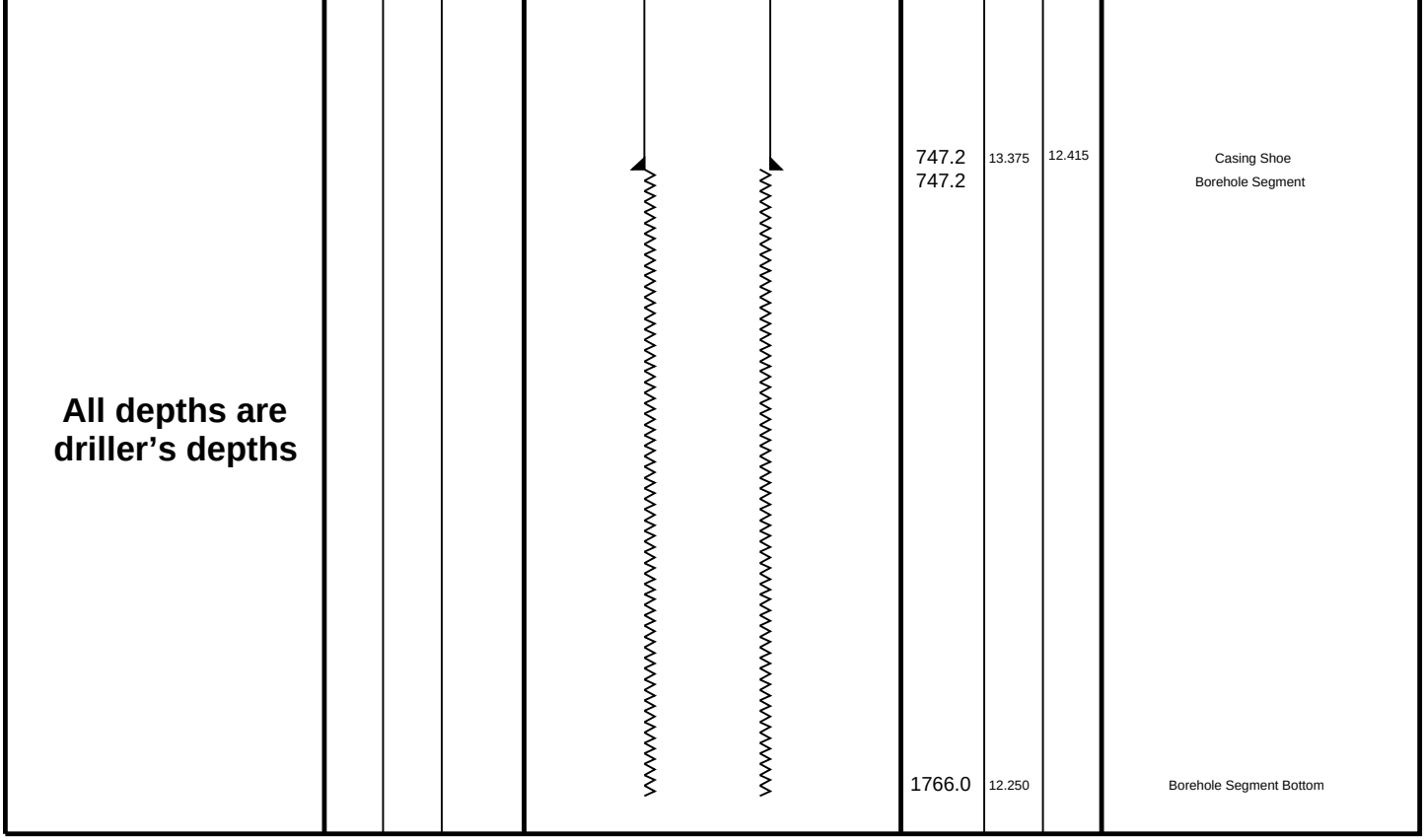
TOOL BOTTOM

MAXIMUM STRING DIAMETER 4.75 IN
MEASUREMENTS RELATIVE TO TOOL ZERO
ALL LENGTHS IN METERS

Client: 3D Oil
Well: Wardie−1
Field: Exploration
State: Victoria
Country: Australia

Rig Name: West Triton
Reference Datum: Mean Sea Level
Elevation: 38.0 m

Production String	(in) OD	(in) ID	(m) MD	Well Schematic	(m) MD	(in) OD	(in) ID	Casing String
Kelly Bushing Elevation			38.0					
Derrick Floor Elevation			38.0					
Mean Sea Level			0.0					
					39.5			
					133.0	30.000	28.00	Casing Shoe



Schlumberger

Station @ 1574.01 m MD

MAXIS Field Log

Company: 3D Oil **Well: Wardie−1**

Output DLIS Files

DEFAULT	**MDT_OFA_029LTP**	**FN:50**	**PRODUCER**	**20−May−2008 13:36**	**1574.0 M**	**9.5 M**

Elapsed Time (s)	Event Summary
3686.4	Retract Quick Probe Module (MRPQ) 1
3105.6	Pumping Stopped 6305.0 C3 Dual Up−down Pumpout Module (MRPOUD)
765.9	Pump Up Started Dual Up−down Pumpout Module (MRPOUD)

335.1	Vert Pretest 10.0 cc @ 30 C3/M Quick Probe Module (MRPQ) 1
136.2	Vert Pretest 10.1 cc @ 60 C3/M Quick Probe Module (MRPQ) 1
38.7	Probe Set @ 1574.0 M Quick Probe Module (MRPQ) 1

PIP SUMMARY

Time Mark Every 60 S

MRPOUD Hydraulic Pump Output Volume (POUDPV)
0 (C3) 10000

MRPOUD Hydraulic Pressure (POUDHP)
0 (PSIG) 10000

MRPQ 1 Quartz Gauge Pressure (PQQP1)
0 (PSIA) 8000

MRPQ 1 Resistivity Cell Temperature (PQ1TR)
75 (DEGC) 125

Resistivity Cell Temperature (PQ1TR) (DEGC)

AFA GOR (GOR_AFA) (F3/B)

AFA GOR (GOR_AFA)
0 (F3/B) 30000

MRPQ 1 Quartz Gauge Pressure (PQQP1) (PSIA)

MRPOUD Motor Speed (POUDMS)
0 (RPM) 5000

MRMS 1 Upper Valve Position (MUP1) (----
5 260

High Gas

Oil

MRPOUD Motor Current (POUDMC)
0 (AMPS) 20

MRPOUD Solenoid 3 Status (POUDS3)
5 (---- 0

Mediu m Gas

Water

AFA Fluid Coloration (FCOL_AFA) (----
0.000001 0.0001

Pumped Volume (POUDPV) (C3)

Elapsed Time (ETIM) (S)

Low Gas

Highly Absorbing Fluid

AFA Fluid Coloration (FCOL_AFA)
0.0001 (---- 0.01

AFA Optical Density Channel 9 (FAOD_AFA[9])
-36 (---- 4

AFA Optical Density Channel 8 (FAOD_AFA[8])
-32 (---- 8

AFA Optical Density Channel 7 (FAOD_AFA[7])
-28 (---- 12

AFA Optical Density Channel 6 (FAOD_AFA[6])
-24 (---- 16

AFA Optical Density Channel 5 (FAOD_AFA[5])
-20 (---- 20

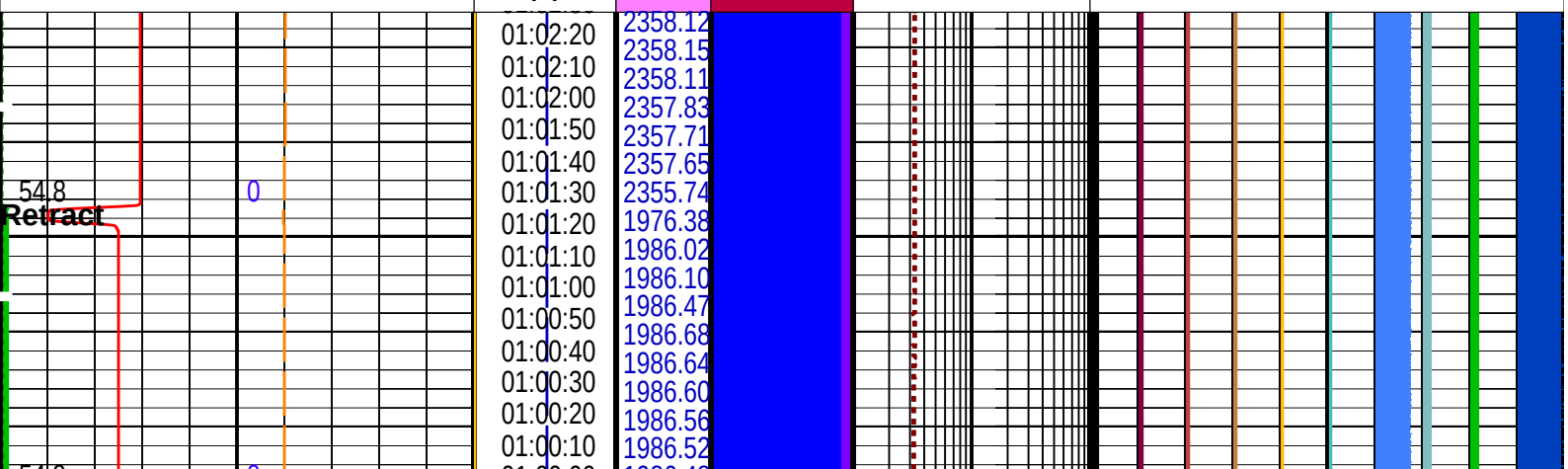
AFA Optical Density Channel 4 (FAOD_AFA[4])
-16 (---- 24

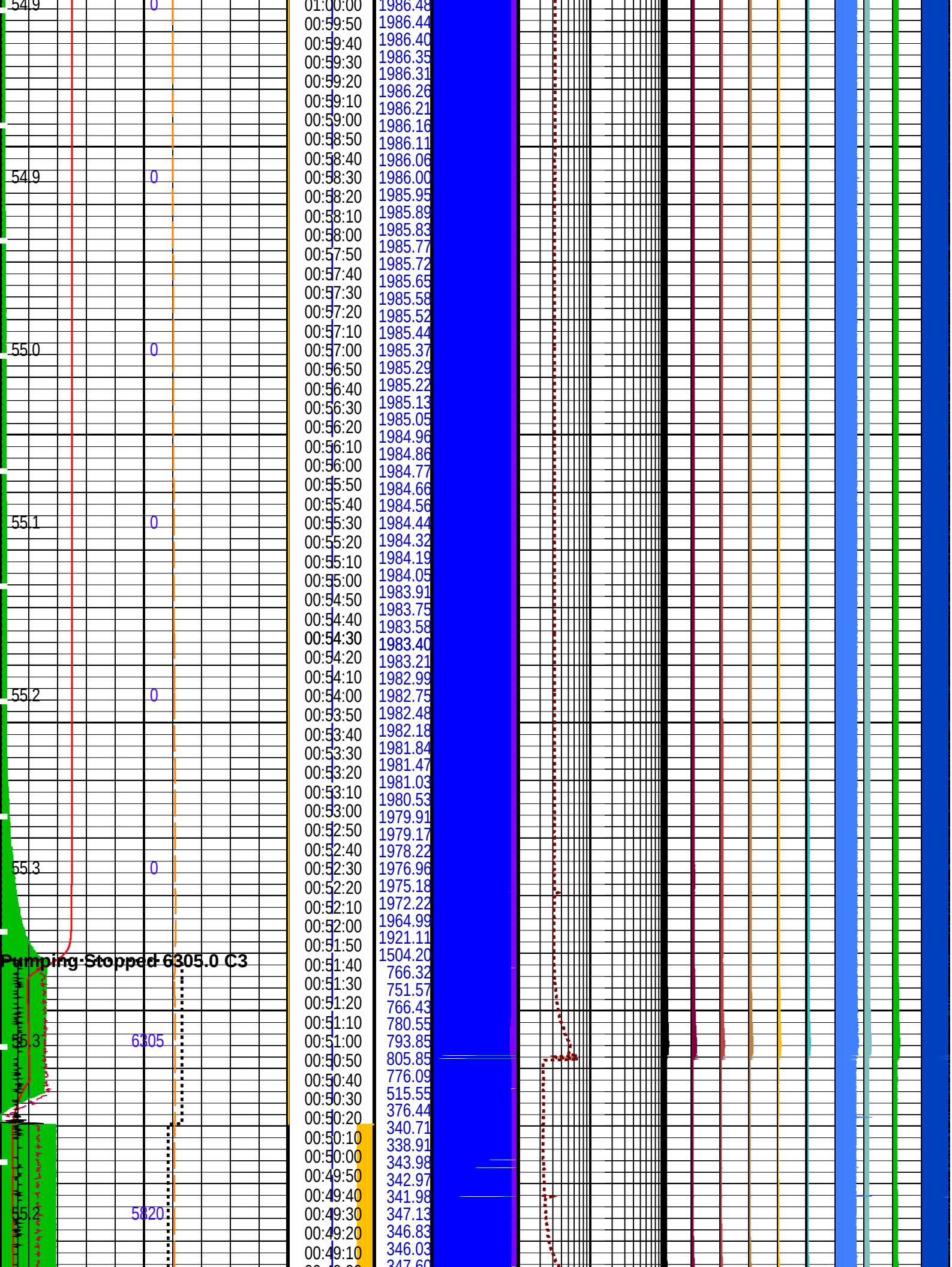
AFA Optical Density Channel 3 (FAOD_AFA[3])
-12 (---- 28

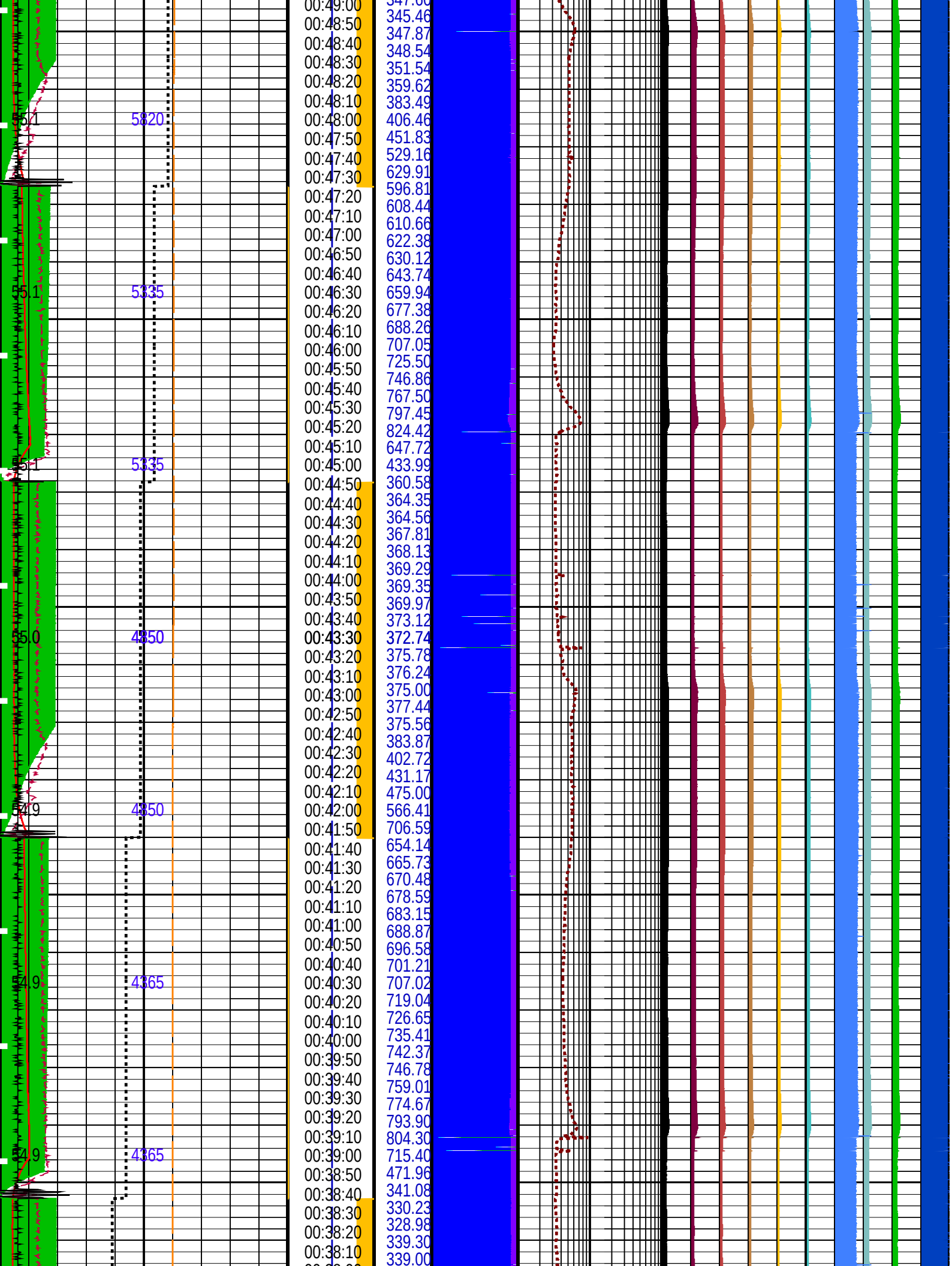
AFA Optical Density Channel 2 (FAOD_AFA[2])
-8 (---- 32

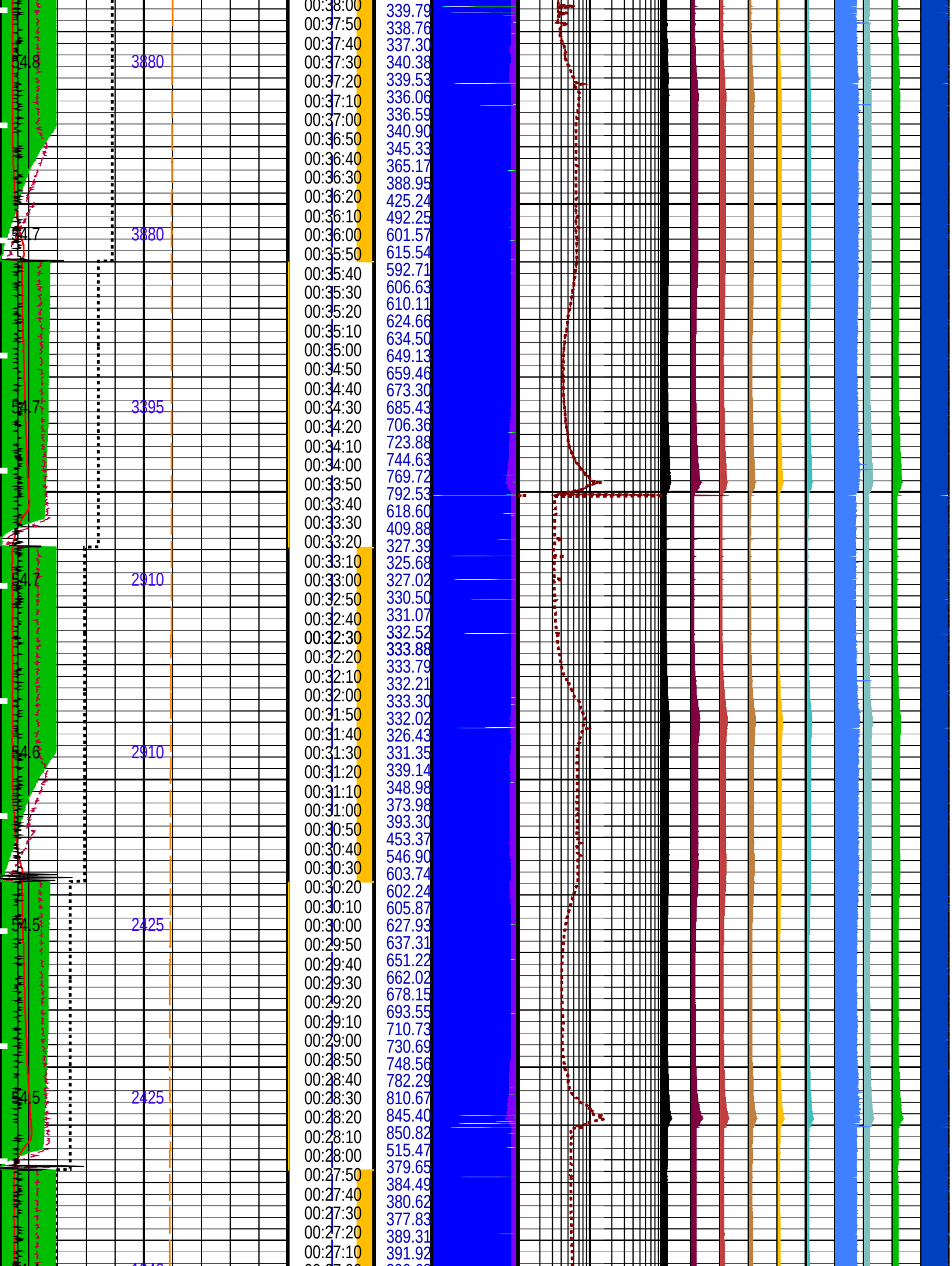
AFA Optical Density Channel 1 (FAOD_AFA[1])
-4 (---- 36

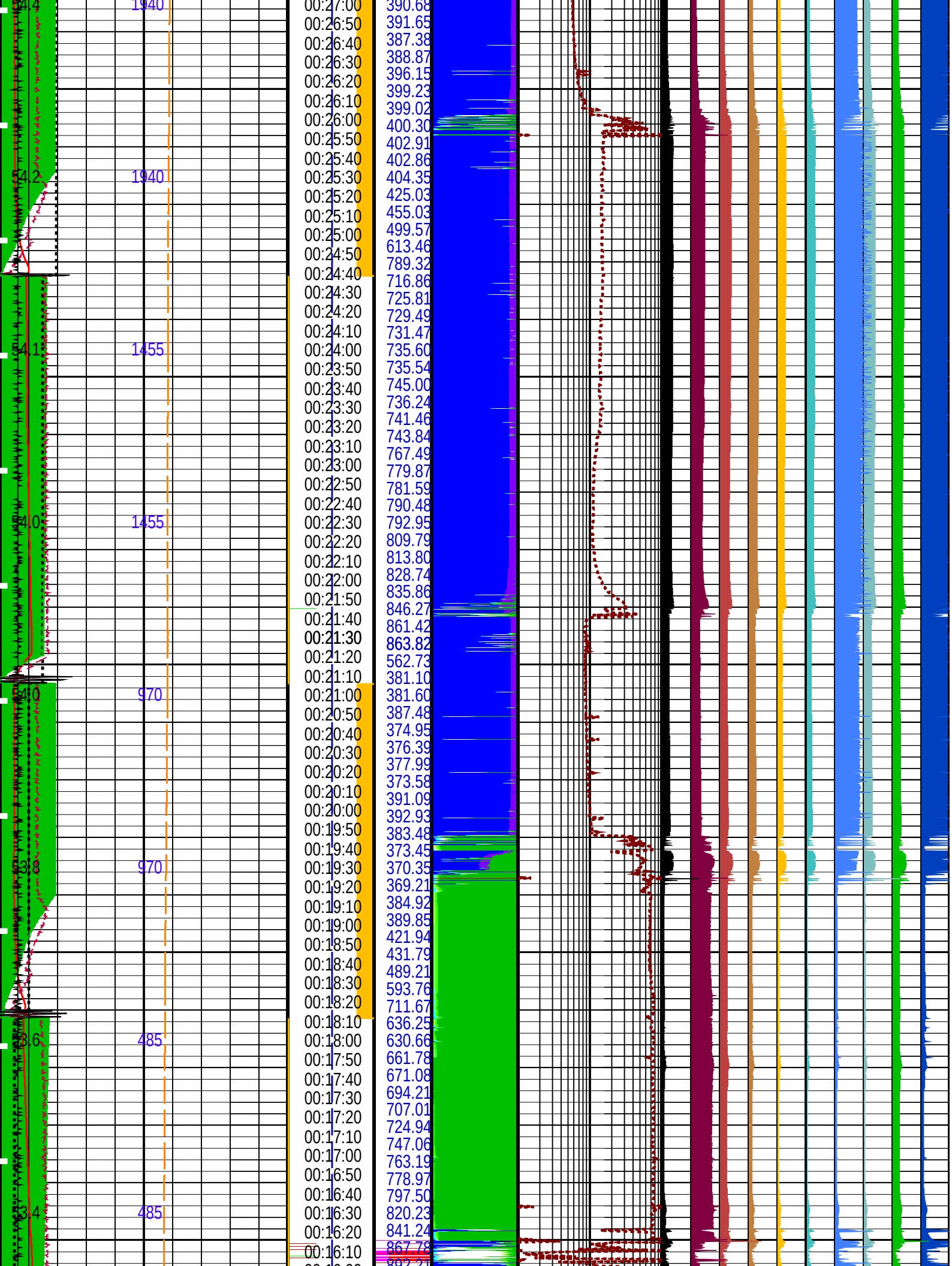
AFA Optical Density Channel 0 (FAOD_AFA[0])
0 (---- 40

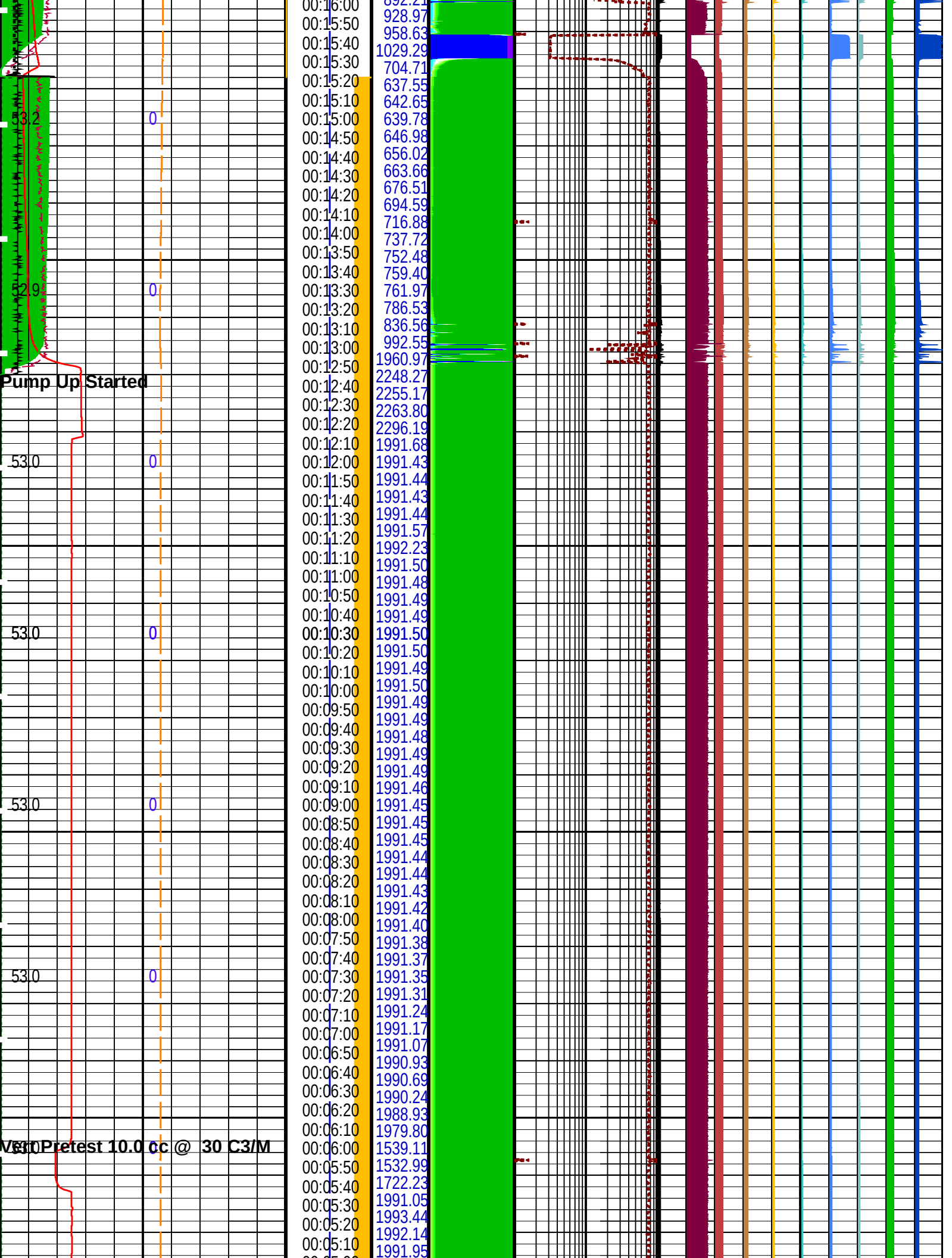


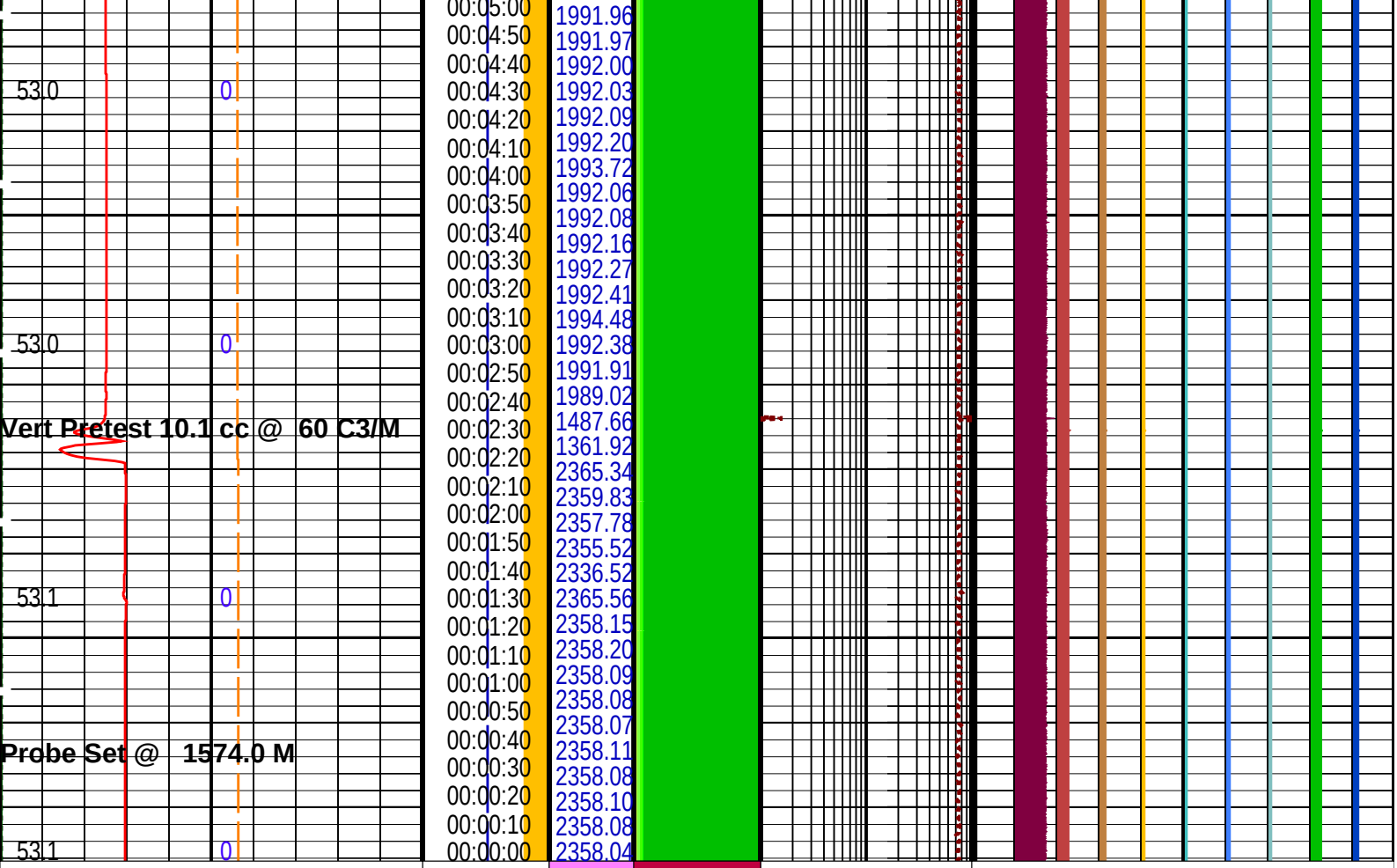

54.9
0
54.9
0
55.0
0
55.1
0
55.2
0
55.3
0
Pumping Stopped 6305.0 C3
55.3
6305
55.2
5820


5820
5335
5335
4850
4850
4365
4365
00:49:00 347.06
00:48:50 345.46
00:48:40 347.87
00:48:30 348.54
00:48:20 351.54
00:48:10 359.62
00:48:00 383.49
00:47:50 406.46
00:47:40 451.83
00:47:30 529.16
00:47:20 629.91
00:47:10 596.81
00:47:00 608.44
00:46:50 610.66
00:46:40 622.38
00:46:30 630.12
00:46:20 643.74
00:46:10 659.94
00:46:00 677.38
00:45:50 688.26
00:45:40 707.05
00:45:30 725.50
00:45:20 746.86
00:45:10 767.50
00:45:00 797.45
00:44:50 824.42
00:44:40 647.72
00:44:30 433.99
00:44:20 360.58
00:44:10 364.35
00:44:00 364.56
00:43:50 367.81
00:43:40 368.13
00:43:30 369.29
00:43:20 369.35
00:43:10 369.97
00:43:00 373.12
00:42:50 372.74
00:42:40 375.78
00:42:30 376.24
00:42:20 375.00
00:42:10 377.44
00:42:00 375.56
00:41:50 383.87
00:41:40 402.72
00:41:30 431.17
00:41:20 475.00
00:41:10 566.41
00:41:00 706.59
00:40:50 654.14
00:40:40 665.73
00:40:30 670.48
00:40:20 678.59
00:40:10 683.15
00:40:00 688.87
00:39:50 696.58
00:39:40 701.21
00:39:30 707.02
00:39:20 719.04
00:39:10 726.65
00:39:00 735.41
00:38:50 742.37
00:38:40 746.78
00:38:30 759.01
00:38:20 774.67
00:38:10 793.90
00:38:00 804.30
00:37:50 715.40
00:37:40 471.96
00:37:30 341.08
00:37:20 330.23
00:37:10 328.98
00:37:00 339.30
00:36:50 339.00


54.8
3880
54.7
3880
54.7
3395
54.7
2910
54.6
2910
54.5
2425
54.5
2425
00:38:00 339.79
00:37:50 338.76
00:37:40 337.30
00:37:30 340.38
00:37:20 339.53
00:37:10 336.06
00:37:00 336.59
00:36:50 340.90
00:36:40 345.33
00:36:30 365.17
00:36:20 388.95
00:36:10 425.24
00:36:00 492.25
00:35:50 601.57
00:35:40 615.54
00:35:30 592.71
00:35:20 606.63
00:35:10 610.11
00:35:00 624.66
00:34:50 634.50
00:34:40 649.13
00:34:30 659.46
00:34:20 685.43
00:34:10 706.36
00:34:00 723.88
00:33:50 744.63
00:33:40 769.72
00:33:30 792.53
00:33:20 618.60
00:33:10 409.88
00:33:00 327.39
00:32:50 325.68
00:32:40 327.02
00:32:30 330.50
00:32:20 331.07
00:32:10 332.52
00:32:00 333.88
00:31:50 333.79
00:31:40 332.21
00:31:30 333.30
00:31:20 332.02
00:31:10 326.43
00:31:00 331.35
00:30:50 339.14
00:30:40 348.98
00:30:30 373.98
00:30:20 393.30
00:30:10 453.37
00:30:00 546.90
00:29:50 603.74
00:29:40 602.24
00:29:30 605.87
00:29:20 627.93
00:29:10 637.31
00:29:00 651.22
00:28:50 662.02
00:28:40 678.15
00:28:30 693.55
00:28:20 710.73
00:28:10 730.69
00:28:00 748.56
00:27:50 782.29
00:27:40 810.67
00:27:30 845.40
00:27:20 850.82
00:27:10 515.47
379.65
384.49
380.62
377.83
389.31
391.92


54.4
1940
54.2
1940
54.1
1455
54.0
1455
53.8
970
53.6
485
53.4
485
970
00:27:00 390.68
00:26:50 391.65
00:26:40 387.38
00:26:30 388.87
00:26:20 396.15
00:26:10 399.23
00:26:00 399.02
00:25:50 400.30
00:25:40 402.91
00:25:30 402.86
00:25:20 404.35
00:25:10 425.03
00:25:00 455.03
00:24:50 499.57
00:24:40 613.46
00:24:30 789.32
00:24:20 716.86
00:24:10 725.81
00:24:00 729.49
00:23:50 731.47
00:23:40 735.60
00:23:30 735.54
00:23:20 745.00
00:23:10 736.24
00:23:00 741.46
00:22:50 743.84
00:22:40 767.49
00:22:30 779.87
00:22:20 781.59
00:22:10 790.48
00:22:00 792.95
00:21:50 809.79
00:21:40 813.80
00:21:30 828.74
00:21:20 835.86
00:21:10 846.27
00:21:00 861.42
00:20:50 863.82
00:20:40 562.73
00:20:30 381.10
00:20:20 381.60
00:20:10 387.48
00:20:00 374.95
00:19:50 376.39
00:19:40 377.99
00:19:30 373.58
00:19:20 391.09
00:19:10 392.93
00:19:00 383.48
00:18:50 373.45
00:18:40 370.35
00:18:30 369.21
00:18:20 384.92
00:18:10 389.85
00:18:00 421.94
00:17:50 431.79
00:17:40 489.21
00:17:30 593.76
00:17:20 711.67
00:17:10 636.25
00:17:00 630.66
00:16:50 661.78
00:16:40 671.08
00:16:30 694.21
00:16:20 707.01
00:16:10 724.94
00:16:00 747.06
763.19
778.97
797.50
820.23
841.24
867.78


53.2
0
52.9
0
Pump Up Started
53.0
0
53.0
0
53.0
0
Pretest 10.0 cc @ 30 C3/M
00:16:00 892.21
00:15:50 928.97
00:15:40 958.63
00:15:30 1029.29
00:15:20 704.71
00:15:10 637.55
00:15:00 642.65
00:14:50 639.78
00:14:40 646.98
00:14:30 656.02
00:14:20 663.66
00:14:10 676.51
00:14:00 694.59
00:13:50 716.88
00:13:40 737.72
00:13:30 752.48
00:13:20 759.40
00:13:10 761.97
00:13:00 786.53
00:12:50 836.56
00:12:40 992.55
00:12:30 1960.97
00:12:20 2248.27
00:12:10 2255.17
00:12:00 2263.80
00:11:50 2296.19
00:11:40 1991.68
00:11:30 1991.43
00:11:20 1991.44
00:11:10 1991.43
00:11:00 1991.44
00:10:50 1991.57
00:10:40 1992.23
00:10:30 1991.50
00:10:20 1991.48
00:10:10 1991.49
00:10:00 1991.49
00:09:50 1991.50
00:09:40 1991.49
00:09:30 1991.50
00:09:20 1991.49
00:09:10 1991.50
00:09:00 1991.49
00:08:50 1991.49
00:08:40 1991.48
00:08:30 1991.49
00:08:20 1991.49
00:08:10 1991.46
00:08:00 1991.45
00:07:50 1991.45
00:07:40 1991.45
00:07:30 1991.44
00:07:20 1991.44
00:07:10 1991.43
00:07:00 1991.42
00:06:50 1991.40
00:06:40 1991.38
00:06:30 1991.37
00:06:20 1991.35
00:06:10 1991.31
00:06:00 1991.24
00:05:50 1991.17
00:05:40 1991.07
00:05:30 1990.93
00:05:20 1990.69
00:05:10 1990.24
1988.93
1979.80
1539.11
1532.99
1722.23
1991.05
1993.44
1992.14
1991.95



Pumped Volume (POUDPV) (C3)

Elapsed Time (ETIM) (S)

Low Gas

Highly Absorbing Fluid

AFA Fluid Coloration (FCOL_AFA)
0.0001 (---- 0.01

AFA Optical Density Channel 0 (FAOD_AFA[0])
0 (---- 40

MRPOUD Motor Current (POUDMC)
0 (AMPS) 20

MRPOUD Solenoid 3 Status (POUDS3)
5 (---- 0

Medium Gas

Water

AFA Fluid Coloration (FCOL_AFA)
(----
0.000001 0.0001

AFA Optical Density Channel 1 (FAOD_AFA[1])
-4 (---- 36

MRPOUD Motor Speed (POUDMS)
0 (RPM) 5000

MRMS 1 Upper Valve Position (MUP1)
(----
5 260

High Gas

Oil

AFA Optical Density Channel 2 (FAOD_AFA[2])
-8 (---- 32

AFA GOR (GOR_AFA)
0 (F3/B) 30000

MRPQ 1 Quartz Gauge Pressure (PQQP1) (PSIA)

AFA Optical Density Channel 3 (FAOD_AFA[3])
-12 (---- 28

Resistivity Cell Temperature (PQ1TR) (DEGC)

AFA GOR (GOR_AFA) (F3/B)

AFA Optical Density Channel 4 (FAOD_AFA[4])
-16 (---- 24

MRPQ 1 Resistivity Cell Temperature (PQ1TR)
75 (DEGC) 125

AFA Optical Density Channel 5 (FAOD_AFA[5])
-20 (---- 20

MRPQ 1 Quartz Gauge Pressure (PQQP1)
0 (PSIA) 8000

AFA Optical Density Channel 6 (FAOD_AFA[6])
-24 (---- 16

MRPOUD Hydraulic Pressure (POUDHP)
0 (PSIG) 10000

AFA Optical Density Channel 7 (FAOD_AFA[7])
-28 (---- 12

MRPOUD Hydraulic Pump Output Volume (POUDPV)		
0	(C3)	10000

AFA Optical Density Channel 8 (FAOD_AFA[8])		
−32	(−−−−	8

AFA Optical Density Channel 9 (FAOD_AFA[9])		
−36	(−−−−	4

PIP SUMMARY

Time Mark Every 60 S

Parameters

DLIS Name	Description	Value	
	MRPQ_1: Quick Probe Module (MRPQ) 1		
QGCA	Quartz Gauge Pressure Correction Applied	BOTH	
QGDA	Quartz Gauge Deviation Angle	12	DEG
QGFD	Quartz Gauge Flow Line Density	1	G/C3
	MRPO_UD: Dual Up−down Pumpout Module (MRPOUD)		
POUDDISPVOL	MRPOUD Displacement Unit Stroke Volume	485	
	AFA: Advanced Fluid Analyzer		
CEXP_AFA	AFA Coloration Exponent	4.6	
DCDW_AFA	AFA Decolor and Dewater Allow/Disallow for Gas Oil Ratio	ALLOW	
FAGM_AFA	AFA GOR Allow/Disallow Mode	ALLOW	
FAJM_AFA	AFA Job Mode	LFA	
FATCM_AFA	AFA Temp. Coef. Measure Mode	** V **	
FATCS_AFA	AFA Temp. Coef. Source Mode	** V **	
GASH_AFA	AFA Gas Indicator High Level Threshold	0.4	
GASL_AFA	AFA Gas Indicator Low Level Threshold	0.05	
GASM_AFA	AFA Gas Indicator Medium Level Threshold	0.1	
GORD_AFA	AFA GOR Disqualification Level	0.1	
PDCO	Probe Depth Correction Offset	0	M
SATL_AFA	AFA Saturation Level of Optical Density Measurement	** V **	
TCPS_STATUS_AFA	AFA Temperature Compensation Coefficient Status	VALID	
	MRPC: Power Cartridge		
PDCO	Probe Depth Correction Offset	0	M

Format: MRPQ_AFA_Hydrocarbon Vertical Scale: 1" per 60S Graphics File Created: 20−May−2008 13:36

OP System Version: 15C0−309

MCM

MRPQ_1	15C0−309	MRHY_1	15C0−309
MRPO_UD	15C0−309	AFA	15C0−309
MRMS_1	15C0−309	MRPC	15C0−309
SGT−L	15C0−309	TCC−BF	15C0−309

Output DLIS Files

DEFAULT	MDT_OFA_029LTP	FN:50	PRODUCER	20−May−2008 13:36	

Schlumberger

Station @ 1582.44 m MD

MAXIS Field Log

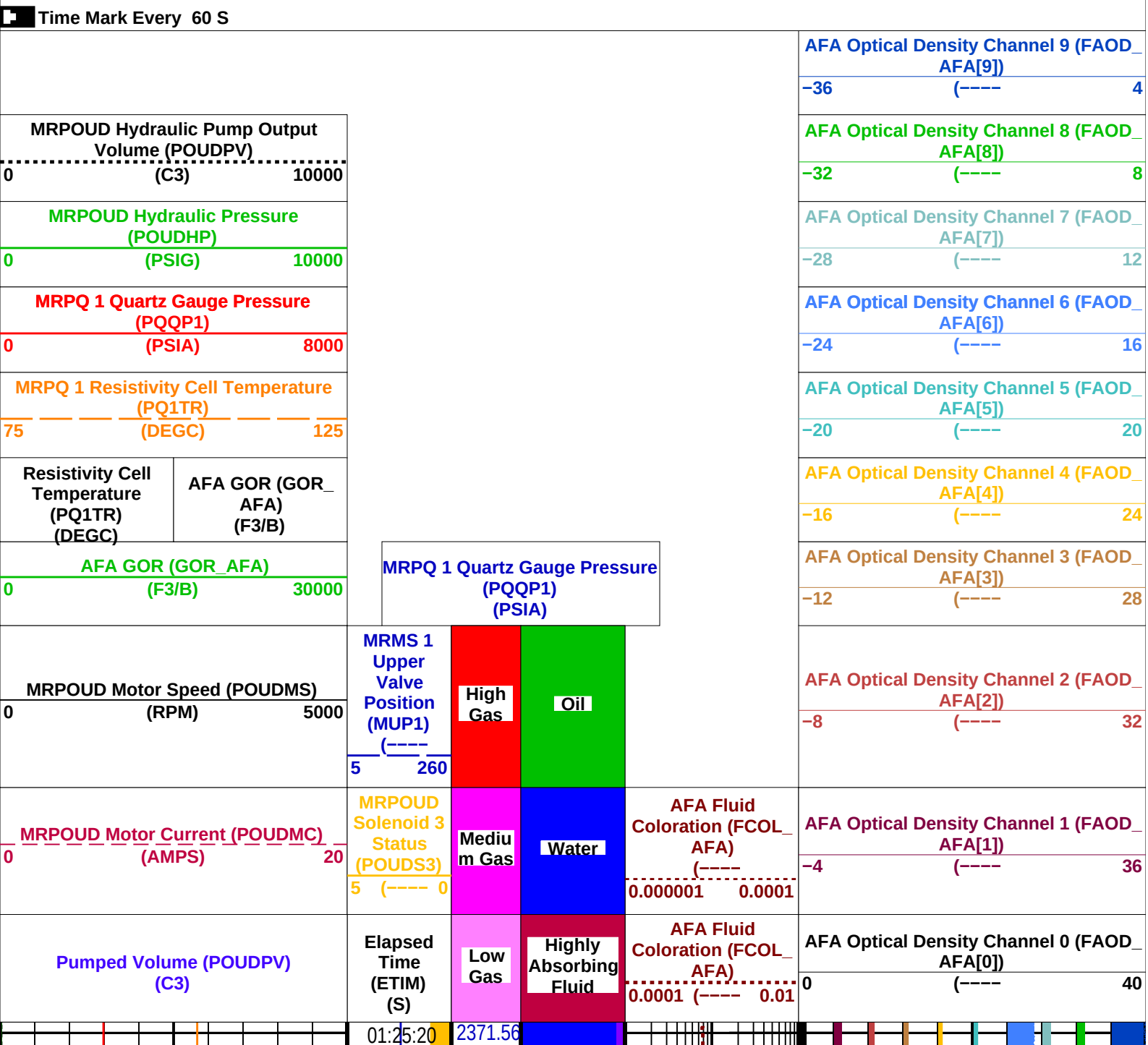
Company: 3D Oil Well: Wardie−1

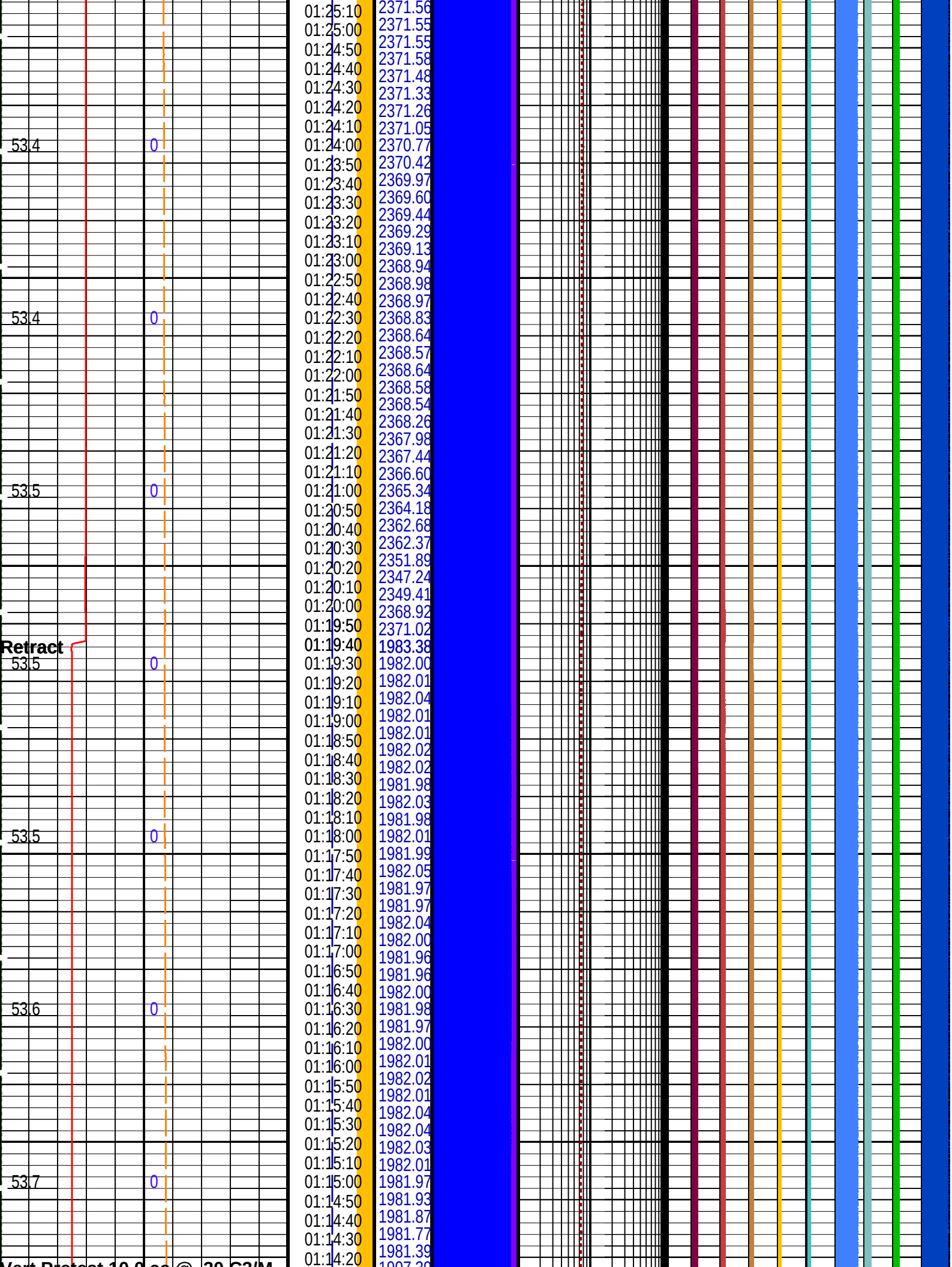
Output DLIS Files

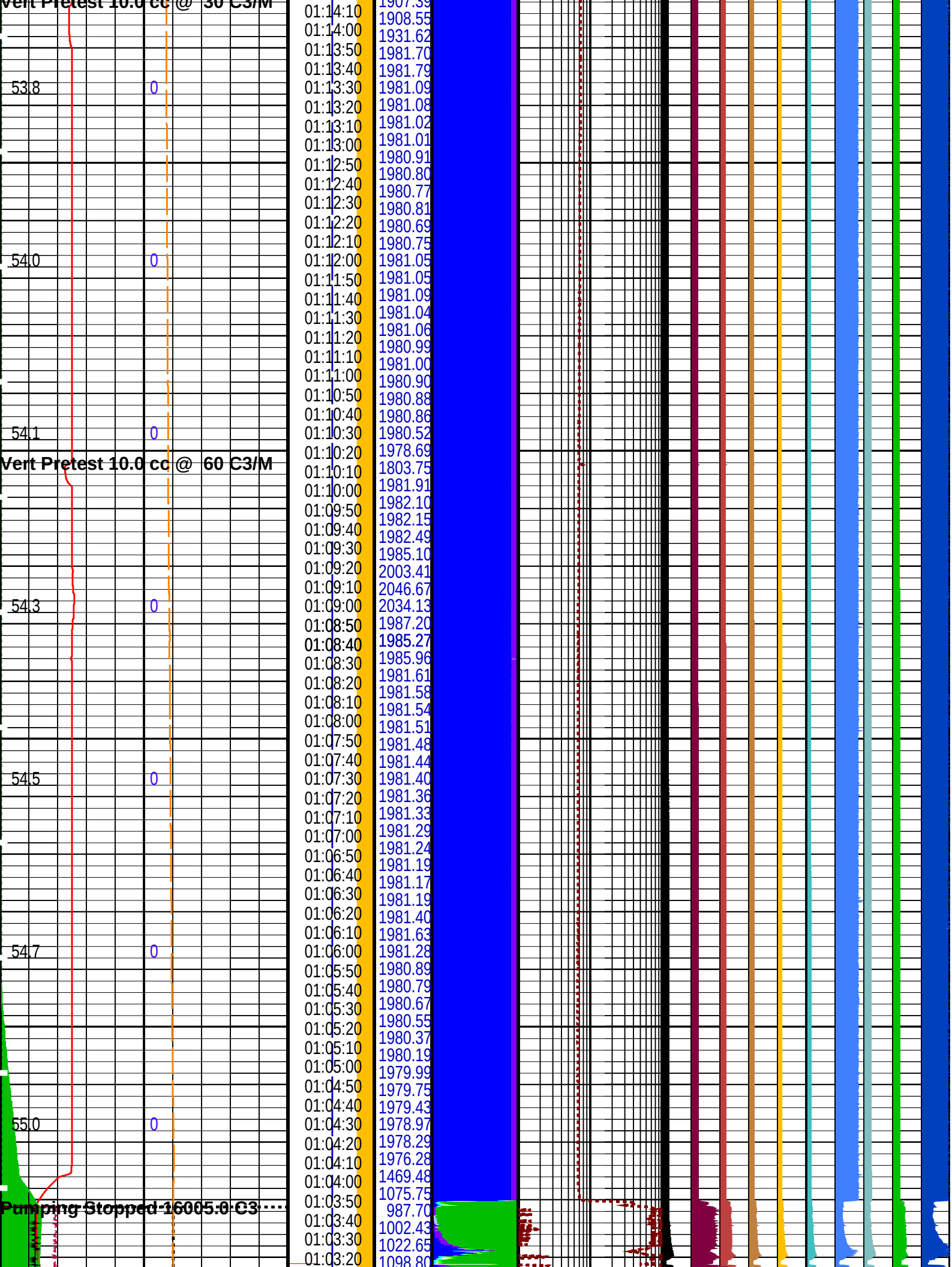
DEFAULT	MDT_OFA_025LTP	FN:46	PRODUCER	20−May−2008 11:05	1582.4 M	13.0 M

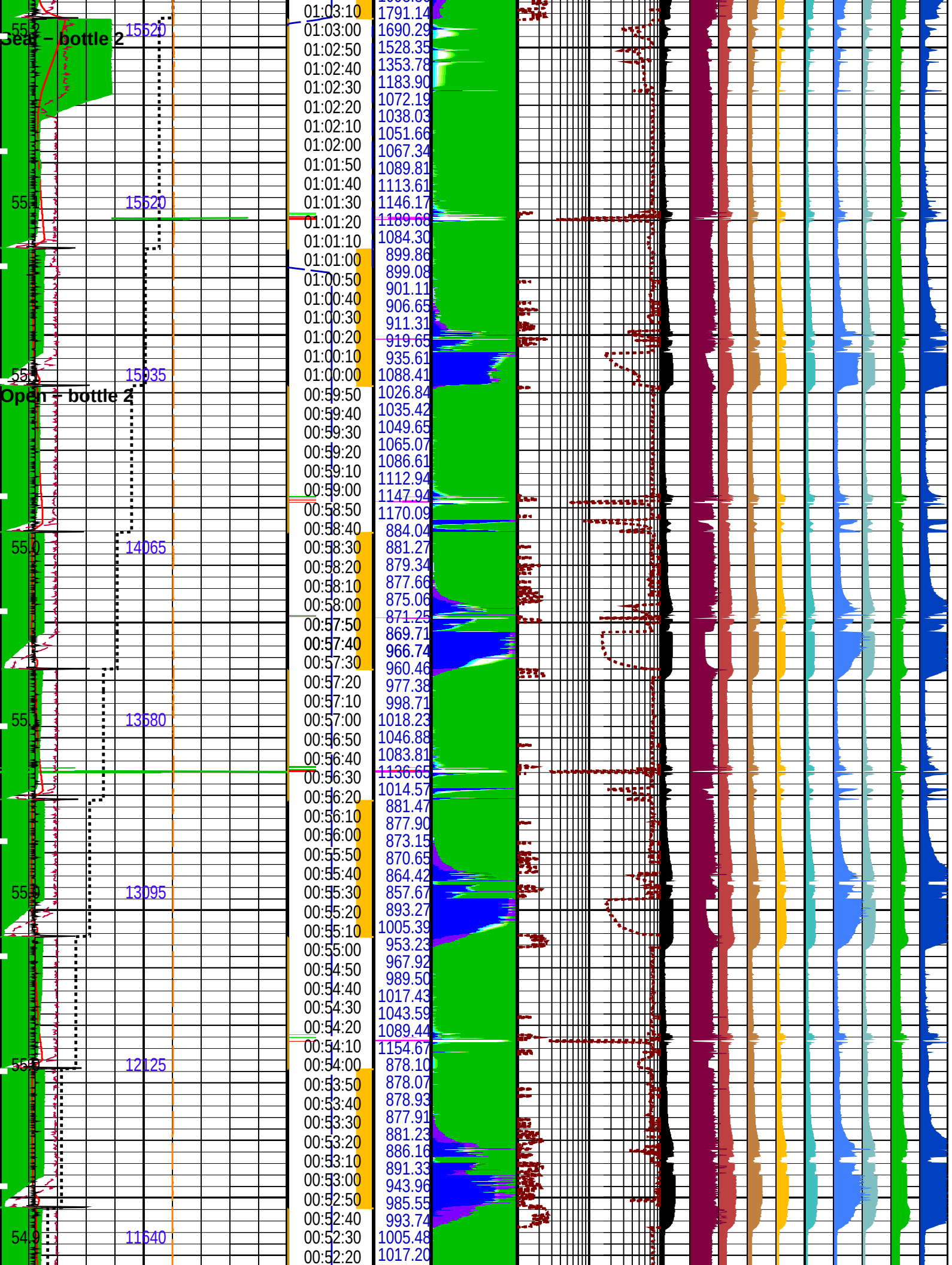
Elapsed Time (s)	Event Summary
4782.3	Retract Quick Probe Module (MRPQ) 1
4428.9	Vert Pretest 10.0 cc @ 30 C3/M Quick Probe Module (MRPQ) 1
4200.6	Vert Pretest 10.0 cc @ 60 C3/M Quick Probe Module (MRPQ) 1
3830.1	Pumping Stopped 16005.0 C3 Dual Up−down Pumpout Module (MRPOUD)
3779.1	Seal MDT Multi−Sample (MRMS) 1, bottle 2
3592.8	Open MDT Multi−Sample (MRMS) 1, bottle 2, sample number = 2
2865.9	Seal MDT Multi−Sample (MRMS) 1, bottle 1
2568.6	Open MDT Multi−Sample (MRMS) 1, bottle 1, sample number = 1
661.2	Pump Up Started Dual Up−down Pumpout Module (MRPOUD)
643.8	Pumping Stopped 0.0 C3 Dual Up−down Pumpout Module (MRPOUD)
527.1	Pump Up Started Dual Up−down Pumpout Module (MRPOUD)

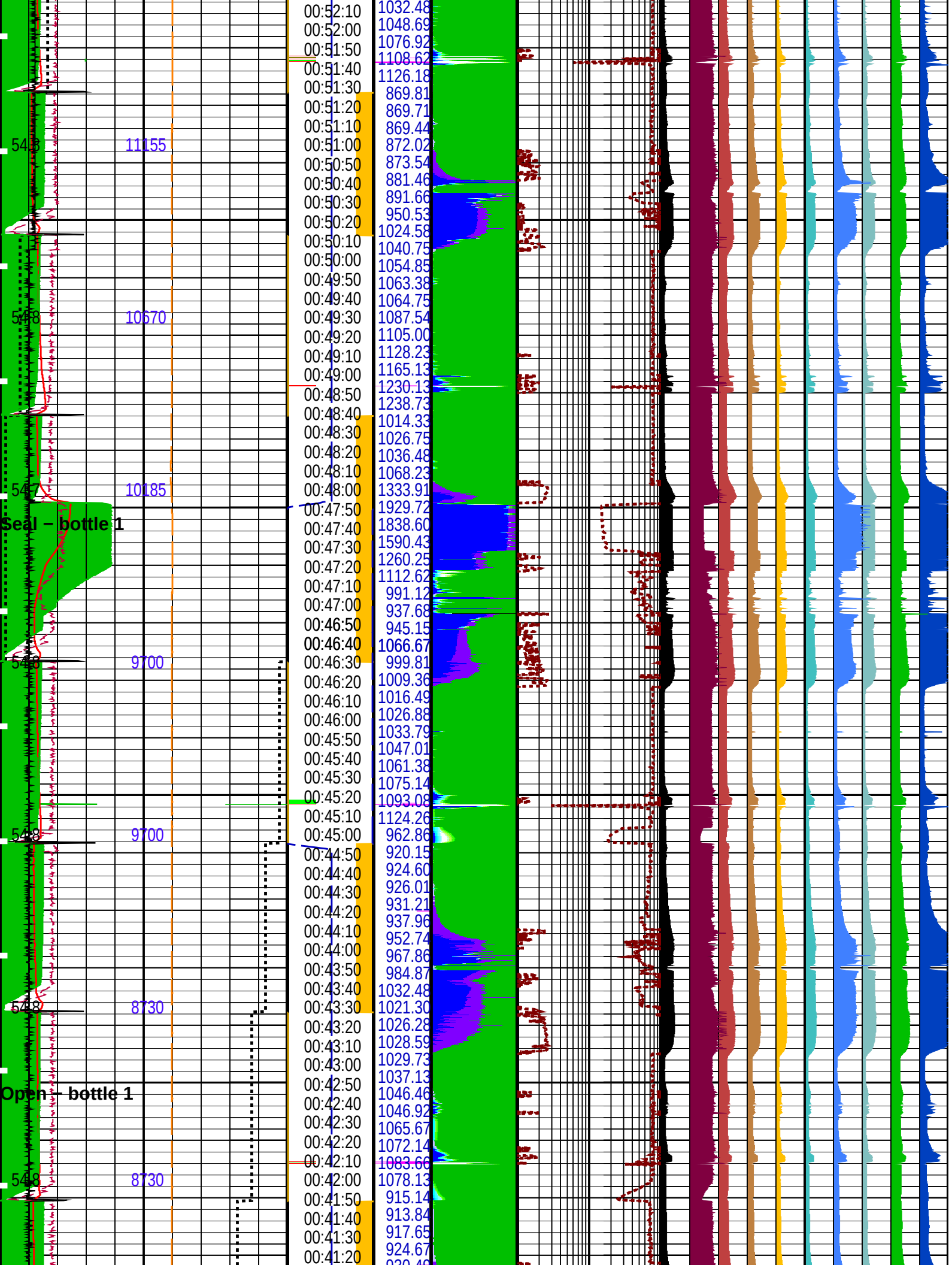
PIP SUMMARY

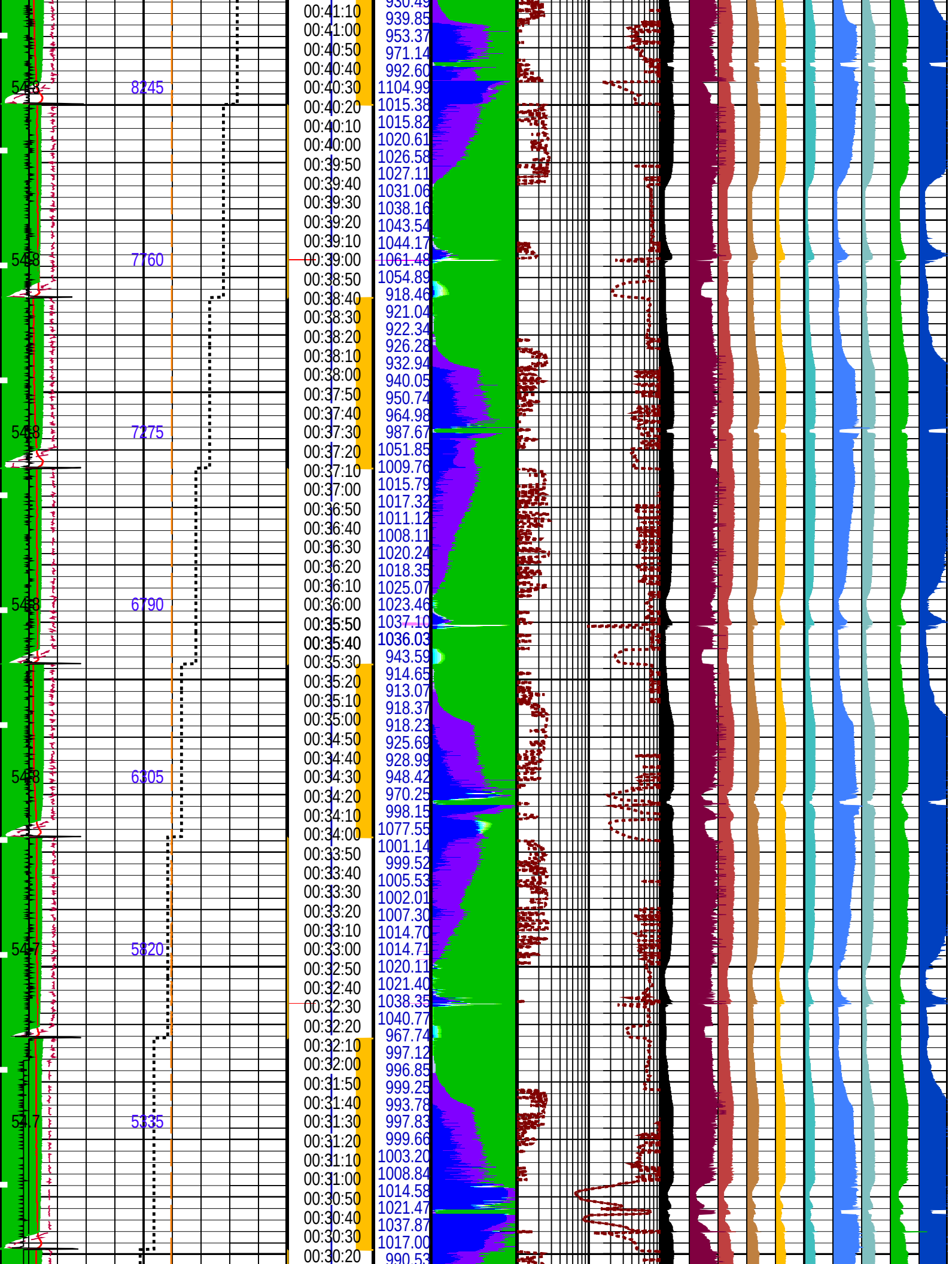


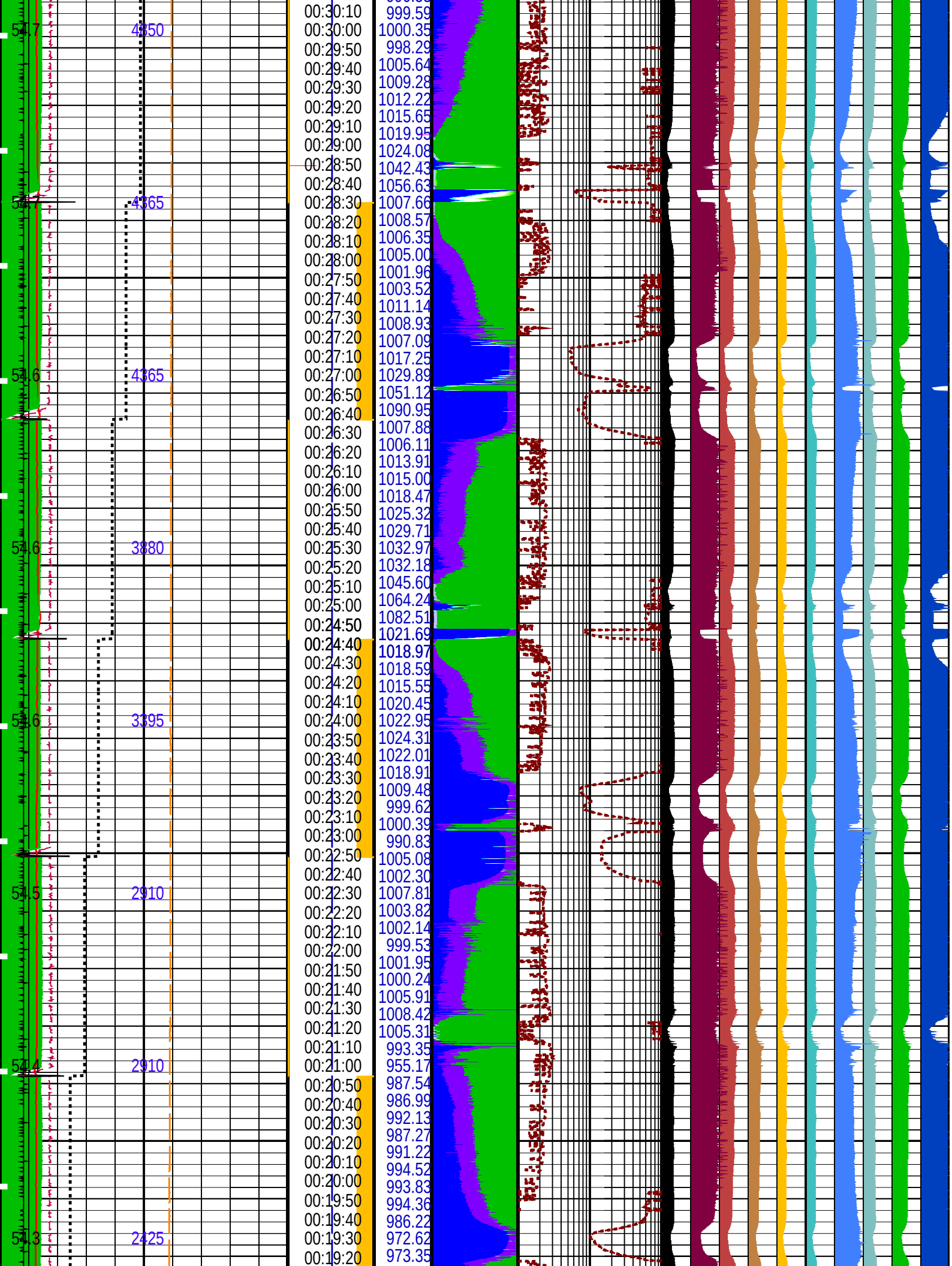

53.4
0
53.4
0
53.5
0
Retract
53.5
0
53.5
0
53.6
0
53.7
0
01:25:10 2371.56
01:25:00 2371.55
01:24:50 2371.55
01:24:40 2371.58
01:24:30 2371.48
01:24:20 2371.33
01:24:10 2371.26
01:24:00 2371.05
01:23:50 2370.77
01:23:40 2370.42
01:23:30 2369.97
01:23:20 2369.60
01:23:10 2369.44
01:23:00 2369.29
01:22:50 2369.13
01:22:40 2368.94
01:22:30 2368.98
01:22:20 2368.97
01:22:10 2368.83
01:22:00 2368.64
01:21:50 2368.57
01:21:40 2368.64
01:21:30 2368.58
01:21:20 2368.54
01:21:10 2368.26
01:21:00 2367.98
01:20:50 2367.44
01:20:40 2366.60
01:20:30 2365.34
01:20:20 2364.18
01:20:10 2362.68
01:20:00 2362.37
01:19:50 2351.89
01:19:40 2347.24
01:19:30 2349.41
01:19:20 2368.92
01:19:10 2371.02
01:19:00 1983.38
01:18:50 1982.00
01:18:40 1982.01
01:18:30 1982.04
01:18:20 1982.01
01:18:10 1982.01
01:18:00 1982.02
01:17:50 1982.02
01:17:40 1981.98
01:17:30 1982.03
01:17:20 1981.98
01:17:10 1982.01
01:17:00 1981.99
01:16:50 1982.05
01:16:40 1981.97
01:16:30 1981.97
01:16:20 1982.04
01:16:10 1982.00
01:16:00 1981.96
01:15:50 1981.96
01:15:40 1982.00
01:15:30 1981.98
01:15:20 1981.97
01:15:10 1982.00
01:15:00 1982.01
01:14:50 1982.02
01:14:40 1982.01
01:14:30 1982.04
01:14:20 1982.04

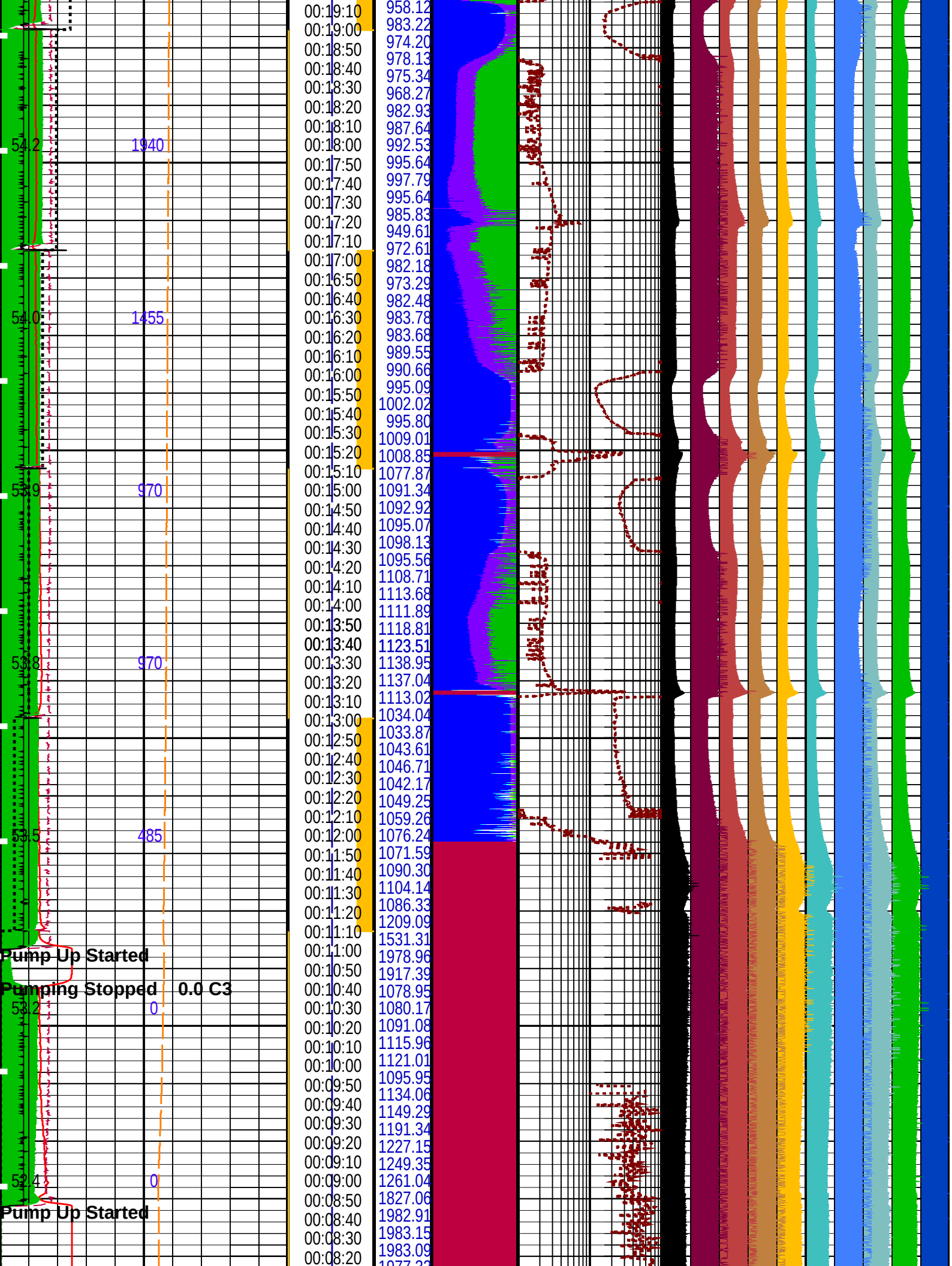

Vert Pretest 10.0 cc @ 30 C3/M
53.8
0
54.0
0
54.1
0
Vert Pretest 10.0 cc @ 60 C3/M
54.3
0
54.5
0
54.7
0
55.0
0
Pumping Stopped 16005.0 C3
01:14:10 1908.55
01:14:00 1931.62
01:13:50 1981.70
01:13:40 1981.79
01:13:30 1981.09
01:13:20 1981.08
01:13:10 1981.02
01:13:00 1981.01
01:12:50 1980.91
01:12:40 1980.80
01:12:30 1980.77
01:12:20 1980.81
01:12:10 1980.69
01:12:00 1980.75
01:11:50 1981.05
01:11:40 1981.05
01:11:30 1981.09
01:11:20 1981.04
01:11:10 1981.06
01:11:00 1980.99
01:10:50 1981.00
01:10:40 1980.90
01:10:30 1980.88
01:10:20 1980.86
01:10:10 1978.69
01:10:00 1803.75
01:09:50 1981.91
01:09:40 1982.10
01:09:30 1982.15
01:09:20 1982.49
01:09:10 1985.10
01:09:00 2003.41
01:08:50 2046.67
01:08:40 2034.13
01:08:30 1987.20
01:08:20 1985.27
01:08:10 1985.96
01:08:00 1981.61
01:07:50 1981.58
01:07:40 1981.54
01:07:30 1981.51
01:07:20 1981.48
01:07:10 1981.44
01:07:00 1981.40
01:06:50 1981.36
01:06:40 1981.33
01:06:30 1981.29
01:06:20 1981.24
01:06:10 1981.19
01:06:00 1981.17
01:05:50 1981.19
01:05:40 1981.40
01:05:30 1981.63
01:05:20 1981.28
01:05:10 1980.89
01:05:00 1980.79
01:04:50 1980.67
01:04:40 1980.55
01:04:30 1980.37
01:04:20 1980.19
01:04:10 1979.99
01:04:00 1979.75
01:03:50 1979.43
01:03:40 1978.97
01:03:30 1978.29
01:03:20 1976.28
1469.48
1075.75
987.70
1002.43
1022.65
1098.80

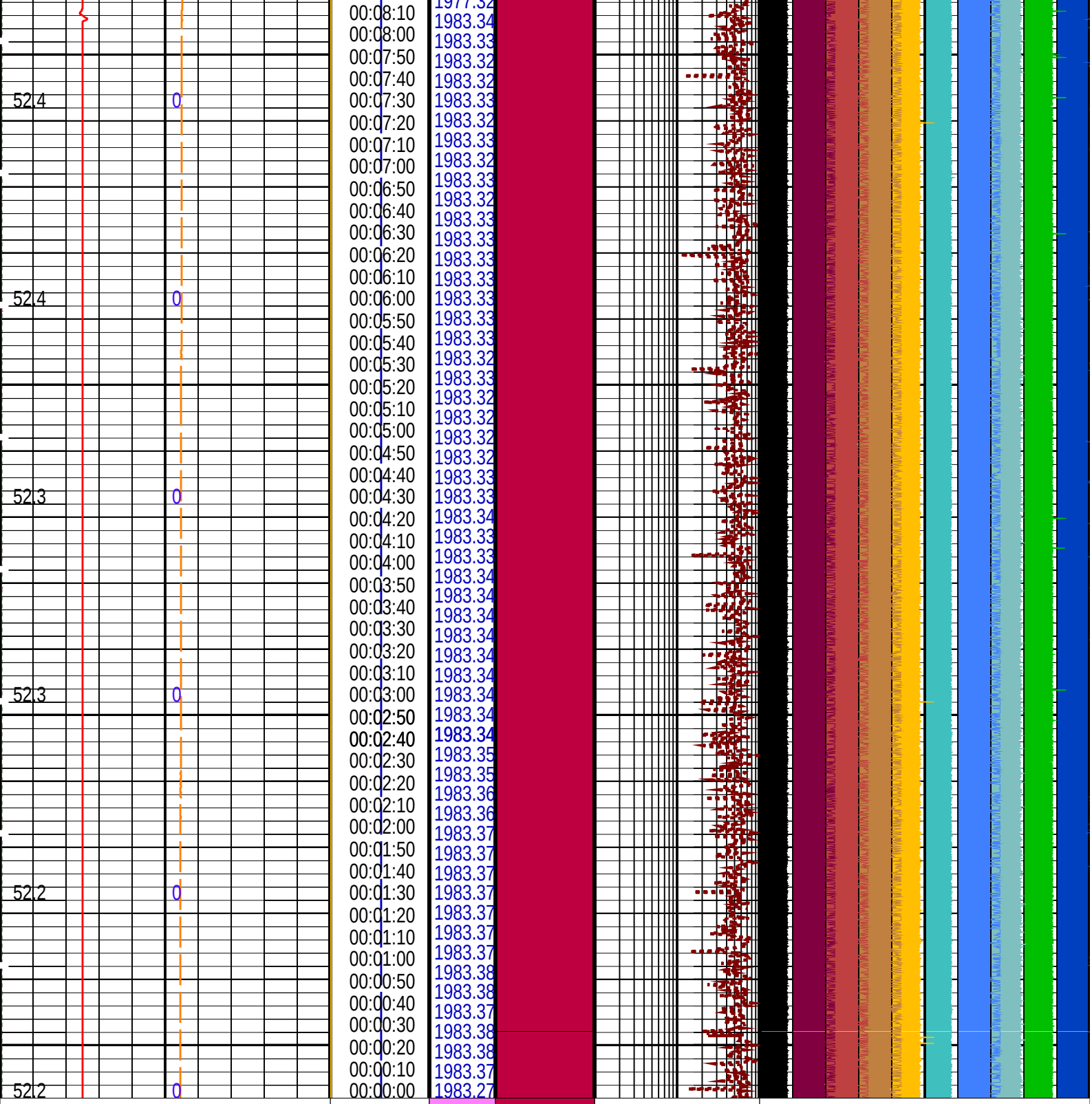

Seat – bottle 2
Open – bottle 2
15620
15620
15035
14065
13680
13095
12125
11640
01:03:10 1791.14
01:03:00 1690.29
01:02:50 1528.35
01:02:40 1353.78
01:02:30 1183.90
01:02:20 1072.19
01:02:10 1038.03
01:02:00 1051.66
01:01:50 1067.34
01:01:40 1089.81
01:01:30 1113.61
01:01:20 1146.17
01:01:10 1189.68
01:01:00 1084.30
01:00:50 899.86
01:00:40 899.08
01:00:30 901.11
01:00:20 906.65
01:00:10 911.31
01:00:00 919.65
00:59:50 935.61
00:59:40 1088.41
00:59:30 1026.84
00:59:20 1035.42
00:59:10 1049.65
00:59:00 1065.07
00:58:50 1086.61
00:58:40 1112.94
00:58:30 1147.94
00:58:20 1170.09
00:58:10 884.04
00:58:00 881.27
00:57:50 879.34
00:57:40 877.66
00:57:30 875.06
00:57:20 871.25
00:57:10 869.71
00:57:00 966.74
00:56:50 960.46
00:56:40 977.38
00:56:30 998.71
00:56:20 1018.23
00:56:10 1046.88
00:56:00 1083.81
00:55:50 1136.65
00:55:40 1014.57
00:55:30 881.47
00:55:20 877.90
00:55:10 873.15
00:55:00 870.65
00:54:50 864.42
00:54:40 857.67
00:54:30 893.27
00:54:20 1005.39
00:54:10 953.23
00:54:00 967.92
00:53:50 989.50
00:53:40 1017.43
00:53:30 1043.59
00:53:20 1089.44
00:53:10 1154.67
00:53:00 878.10
00:52:50 878.07
00:52:40 878.93
00:52:30 877.91
00:52:20 881.23
00:52:10 886.16
00:52:00 891.33
00:51:50 943.96
00:51:40 985.55
00:51:30 993.74
00:51:20 1005.48
00:51:10 1017.20


11155
10670
10185
9700
9700
8730
8730
Seal – bottle 1
Open – bottle 1


8245
7760
7275
6790
6305
5820
5335
00:41:10 939.85
00:41:00 953.37
00:40:50 971.14
00:40:40 992.60
00:40:30 1104.99
00:40:20 1015.38
00:40:10 1015.82
00:40:00 1020.61
00:39:50 1026.58
00:39:40 1027.11
00:39:30 1031.06
00:39:20 1038.16
00:39:10 1043.54
00:39:00 1044.17
00:38:50 1061.48
00:38:40 1054.89
00:38:30 918.46
00:38:20 921.04
00:38:10 922.34
00:38:00 926.28
00:37:50 932.94
00:37:40 940.05
00:37:30 950.74
00:37:20 964.98
00:37:10 987.67
00:37:00 1051.85
00:36:50 1009.76
00:36:40 1015.79
00:36:30 1017.32
00:36:20 1011.12
00:36:10 1008.11
00:36:00 1020.24
00:35:50 1018.35
00:35:40 1025.07
00:35:30 1023.46
00:35:20 1037.10
00:35:10 1036.03
00:35:00 943.59
00:34:50 914.65
00:34:40 913.07
00:34:30 918.37
00:34:20 918.23
00:34:10 925.69
00:34:00 928.99
00:33:50 948.42
00:33:40 970.25
00:33:30 998.15
00:33:20 1077.55
00:33:10 1001.14
00:33:00 999.52
00:32:50 1005.53
00:32:40 1002.01
00:32:30 1007.30
00:32:20 1014.70
00:32:10 1014.71
00:32:00 1020.11
00:31:50 1021.40
00:31:40 1038.35
00:31:30 1040.77
00:31:20 967.74
00:31:10 997.12
00:31:00 996.85
00:30:50 999.25
00:30:40 993.78
00:30:30 997.83
00:30:20 999.66
1003.20
1008.84
1014.58
1021.47
1037.87
1017.00
990.53


54.7
4350
54.7
4365
54.6
4365
54.6
3880
54.6
3395
54.5
2910
54.4
2910
54.3
2425
00:30:10 999.59
00:30:00 1000.35
00:29:50 998.29
00:29:40 1005.64
00:29:30 1009.28
00:29:20 1012.22
00:29:10 1015.65
00:29:00 1019.95
00:28:50 1024.08
00:28:40 1042.43
00:28:30 1056.63
00:28:20 1007.66
00:28:10 1008.57
00:28:00 1006.35
00:27:50 1005.00
00:27:40 1001.96
00:27:30 1003.52
00:27:20 1011.14
00:27:10 1008.93
00:27:00 1007.09
00:26:50 1017.25
00:26:40 1029.89
00:26:30 1051.12
00:26:20 1090.95
00:26:10 1007.88
00:26:00 1006.11
00:25:50 1013.91
00:25:40 1015.00
00:25:30 1018.47
00:25:20 1025.32
00:25:10 1029.71
00:25:00 1032.97
00:24:50 1032.18
00:24:40 1045.60
00:24:30 1064.24
00:24:20 1082.51
00:24:10 1021.69
00:24:00 1018.97
00:23:50 1018.59
00:23:40 1015.55
00:23:30 1020.45
00:23:20 1022.95
00:23:10 1024.31
00:23:00 1022.01
00:22:50 1018.91
00:22:40 1009.48
00:22:30 999.62
00:22:20 1000.39
00:22:10 990.83
00:22:00 1005.08
00:21:50 1002.30
00:21:40 1007.81
00:21:30 1003.82
00:21:20 1002.14
00:21:10 999.53
00:21:00 1001.95
00:20:50 1000.24
00:20:40 1005.91
00:20:30 1008.42
00:20:20 1005.31
00:20:10 993.35
00:20:00 955.17
00:19:50 987.54
00:19:40 986.99
00:19:30 992.13
00:19:20 987.27
00:19:10 991.22
00:19:00 994.52
00:18:50 993.83
00:18:40 994.36
00:18:30 986.22
00:18:20 972.62
00:18:10 973.35


54.2
1940
54.0
1455
53.9
970
53.8
970
53.5
485
Pump Up Started
Pumping Stopped
0.0 C3
53.2
0
52.4
0
Pump Up Started
00:19:10 958.12
00:19:00 983.22
00:18:50 974.20
00:18:40 978.13
00:18:30 975.34
00:18:20 968.27
00:18:10 982.93
00:18:00 987.64
00:17:50 992.53
00:17:40 995.64
00:17:30 997.79
00:17:20 995.64
00:17:10 985.83
00:17:00 949.61
00:16:50 972.61
00:16:40 982.18
00:16:30 973.29
00:16:20 982.48
00:16:10 983.78
00:16:00 983.68
00:15:50 989.55
00:15:40 990.66
00:15:30 995.09
00:15:20 1002.02
00:15:10 995.80
00:15:00 1009.01
00:14:50 1008.85
00:14:40 1077.87
00:14:30 1091.34
00:14:20 1092.92
00:14:10 1095.07
00:14:00 1098.13
00:13:50 1095.56
00:13:40 1108.71
00:13:30 1113.68
00:13:20 1111.89
00:13:10 1118.81
00:13:00 1123.51
00:12:50 1138.95
00:12:40 1137.04
00:12:30 1113.02
00:12:20 1034.04
00:12:10 1033.87
00:12:00 1043.61
00:11:50 1046.71
00:11:40 1042.17
00:11:30 1049.25
00:11:20 1059.26
00:11:10 1076.24
00:11:00 1071.59
00:10:50 1090.30
00:10:40 1104.14
00:10:30 1086.33
00:10:20 1209.09
00:10:10 1531.31
00:10:00 1978.96
00:09:50 1917.39
00:09:40 1078.95
00:09:30 1080.17
00:09:20 1091.08
00:09:10 1115.96
00:09:00 1121.01
00:08:50 1095.95
00:08:40 1134.06
00:08:30 1149.29
00:08:20 1191.34
1227.15
1249.35
1261.04
1827.06
1982.91
1983.15
1983.09



Pumped Volume (POUDPV) (C3)	Elapsed Time (ETIM) (S)	Low Gas	Highly Absorbing Fluid	AFA Fluid Coloration (FCOL_AFA) 0.0001 (---- 0.01	AFA Optical Density Channel 0 (FAOD_AFA[0]) 0 (---- 40
MRPOUD Motor Current (POUDMC) 0 (AMPS) 20	MRPOUD Solenoid 3 Status (POUDS3) 5 (---- 0	Medium Gas	Water	AFA Fluid Coloration (FCOL_AFA) (---- 0.000001 0.0001	AFA Optical Density Channel 1 (FAOD_AFA[1]) −4 (---- 36
MRPOUD Motor Speed (POUDMS) 0 (RPM) 5000	MRMS 1 Upper Valve Position (MUP1) (----	High Gas	Oil		AFA Optical Density Channel 2 (FAOD_AFA[2]) −8 (---- 32

AFA GOR (GOR_AFA)	MRPQ 1 Quartz Gauge Pressure (PQQP1) (PSIA)	AFA Optical Density Channel 3 (FAOD_AFA[3])
0 (F3/B) 30000		−12 (---- 28
Resistivity Cell Temperature (PQ1TR) (DEGC) / AFA GOR (GOR_AFA) (F3/B)		AFA Optical Density Channel 4 (FAOD_AFA[4])
		−16 (---- 24
MRPQ 1 Resistivity Cell Temperature (PQ1TR)		AFA Optical Density Channel 5 (FAOD_AFA[5])
75 (DEGC) 125		−20 (---- 20
MRPQ 1 Quartz Gauge Pressure (PQQP1)		AFA Optical Density Channel 6 (FAOD_AFA[6])
0 (PSIA) 8000		−24 (---- 16
MRPOUD Hydraulic Pressure (POUDHP)		AFA Optical Density Channel 7 (FAOD_AFA[7])
0 (PSIG) 10000		−28 (---- 12
MRPOUD Hydraulic Pump Output Volume (POUDPV)		AFA Optical Density Channel 8 (FAOD_AFA[8])
0 (C3) 10000		−32 (---- 8
		AFA Optical Density Channel 9 (FAOD_AFA[9])
		−36 (---- 4

PIP SUMMARY

Time Mark Every 60 S

Parameters

DLIS Name	Description	Value	
	MRPQ_1: Quick Probe Module (MRPQ) 1		
QGCA	Quartz Gauge Pressure Correction Applied	BOTH	
QGDA	Quartz Gauge Deviation Angle	12	DEG
QGFD	Quartz Gauge Flow Line Density	1	G/C3
	MRPO_UD: Dual Up−down Pumpout Module (MRPOUD)		
POUDDISPVOL	MRPOUD Displacement Unit Stroke Volume	485	
	AFA: Advanced Fluid Analyzer		
CEXP_AFA	AFA Coloration Exponent	4.6	
DCDW_AFA	AFA Decolor and Dewater Allow/Disallow for Gas Oil Ratio	ALLOW	
FAGM_AFA	AFA GOR Allow/Disallow Mode	ALLOW	
FAJM_AFA	AFA Job Mode	LFA	
FATCM_AFA	AFA Temp. Coef. Measure Mode	** V **	
FATCS_AFA	AFA Temp. Coef. Source Mode	** V **	
GASH_AFA	AFA Gas Indicator High Level Threshold	0.4	
GASL_AFA	AFA Gas Indicator Low Level Threshold	0.05	
GASM_AFA	AFA Gas Indicator Medium Level Threshold	0.1	
GORD_AFA	AFA GOR Disqualification Level	0.1	
PDCO	Probe Depth Correction Offset	0	M
SATL_AFA	AFA Saturation Level of Optical Density Measurement	** V **	
TCPS_STATUS_AFA	AFA Temperature Compensation Coefficient Status	VALID	
	MRPC: Power Cartridge		
PDCO	Probe Depth Correction Offset	0	M

Format: MRPQ_AFA_Hydrocarbon Vertical Scale: 1" per 60S Graphics File Created: 20−May−2008 11:05

OP System Version: 15C0−309

MCM

MRPQ_1	15C0−309	MRHY_1	15C0−309
MRPO_UD	15C0−309	AFA	15C0−309
MRMS_1	15C0−309	MRPC	15C0−309
SGT−L	15C0−309	TCC−BF	15C0−309

Output DLIS Files

DEFAULT MDT_OFA_025LTP FN:46 PRODUCER 20−May−2008 11:05

Schlumberger

Station @ 1583.98 m MD

MAXIS Field Log

Company: 3D Oil **Well: Wardie−1**

Output DLIS Files

DEFAULT	MDT_OFA_026LTP	FN:47	PRODUCER	20−May−2008 12:43	1584.0 M	4.3 M

Elapsed Time (s)	Event Summary
1543.8	Retract Quick Probe Module (MRPQ) 1
1323.0	Pumping Stopped 6790.0 C3 Dual Up−down Pumpout Module (MRPOUD)
756.3	Pump Up Started Dual Up−down Pumpout Module (MRPOUD)
333.3	Vert Pretest 10.1 cc @ 100 C3/M Quick Probe Module (MRPQ) 1
210.9	Vert Pretest 10.1 cc @ 60 C3/M Quick Probe Module (MRPQ) 1
111.3	Probe Set @ 1584.0 M Quick Probe Module (MRPQ) 1

PIP SUMMARY

Time Mark Every 60 S

MRPOUD Hydraulic Pump Output Volume (POUDPV)
0 (C3) 10000

MRPOUD Hydraulic Pressure (POUDHP)
0 (PSIG) 10000

MRPQ 1 Quartz Gauge Pressure (PQQP1)
0 (PSIA) 8000

MRPQ 1 Resistivity Cell Temperature (PQ1TR)
75 (DEGC) 125

Resistivity Cell Temperature (PQ1TR) (DEGC)

AFA GOR (GOR_AFA) (F3/B)

AFA GOR (GOR_AFA)
0 (F3/B) 30000

MRPOUD Motor Speed (POUDMS)
0 (RPM) 5000

MRPQ 1 Quartz Gauge Pressure (PQQP1) (PSIA)

MRMS 1 Upper Valve Position (MUP1)
High Gas
Oil

AFA Optical Density Channel 9 (FAOD_AFA[9])
−36 (−−−− 4

AFA Optical Density Channel 8 (FAOD_AFA[8])
−32 (−−−− 8

AFA Optical Density Channel 7 (FAOD_AFA[7])
−28 (−−−− 12

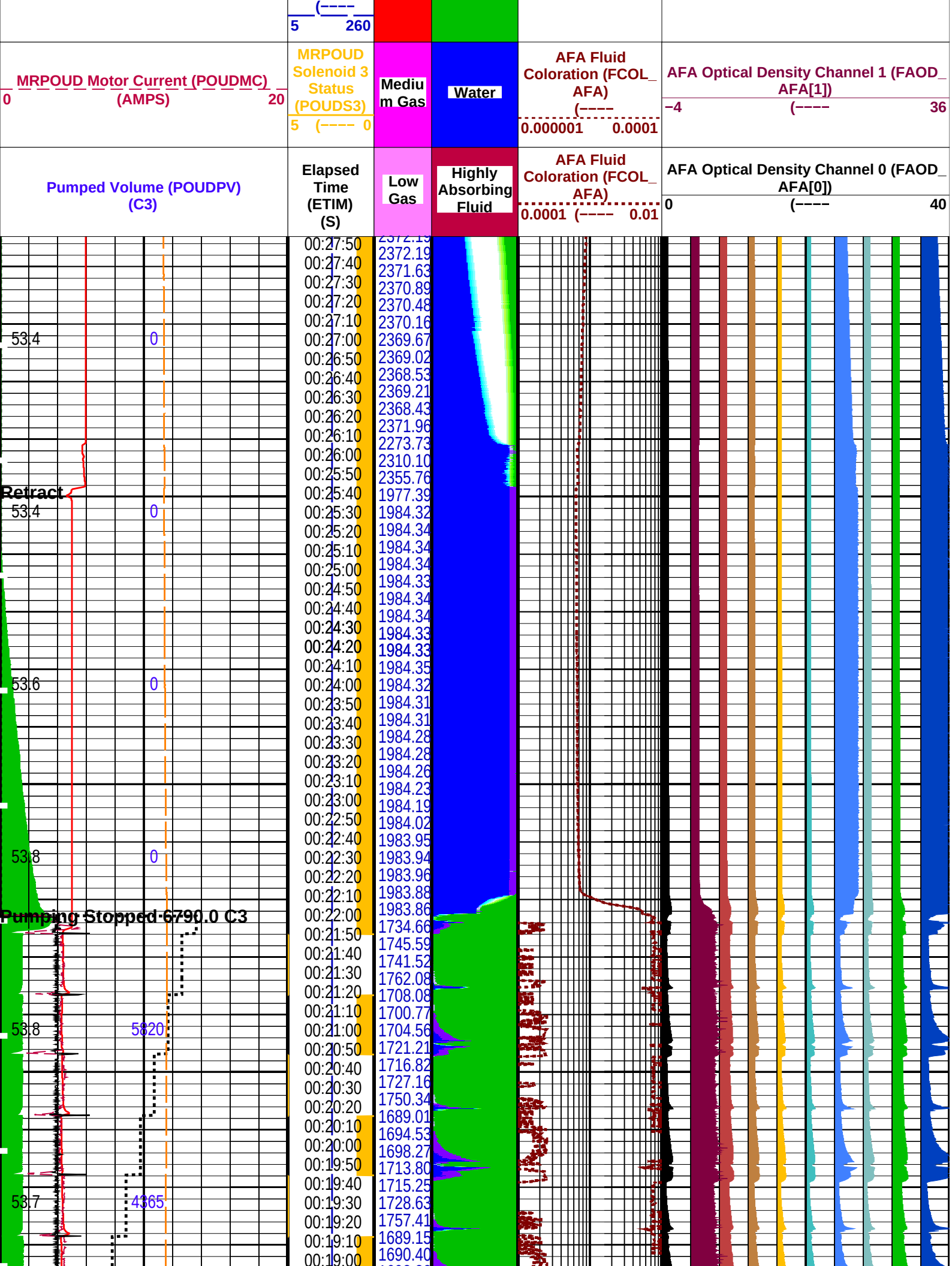
AFA Optical Density Channel 6 (FAOD_AFA[6])
−24 (−−−− 16

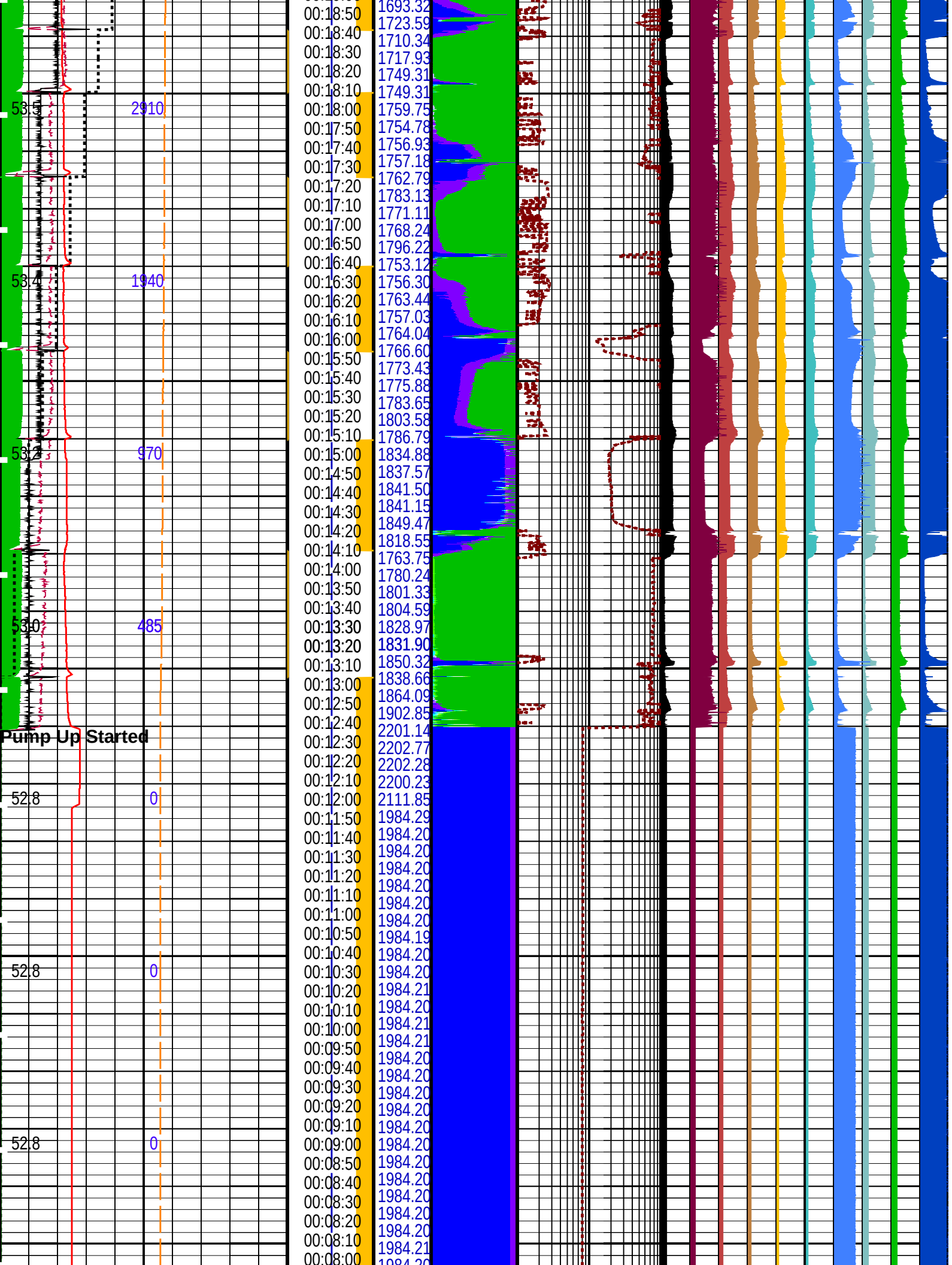
AFA Optical Density Channel 5 (FAOD_AFA[5])
−20 (−−−− 20

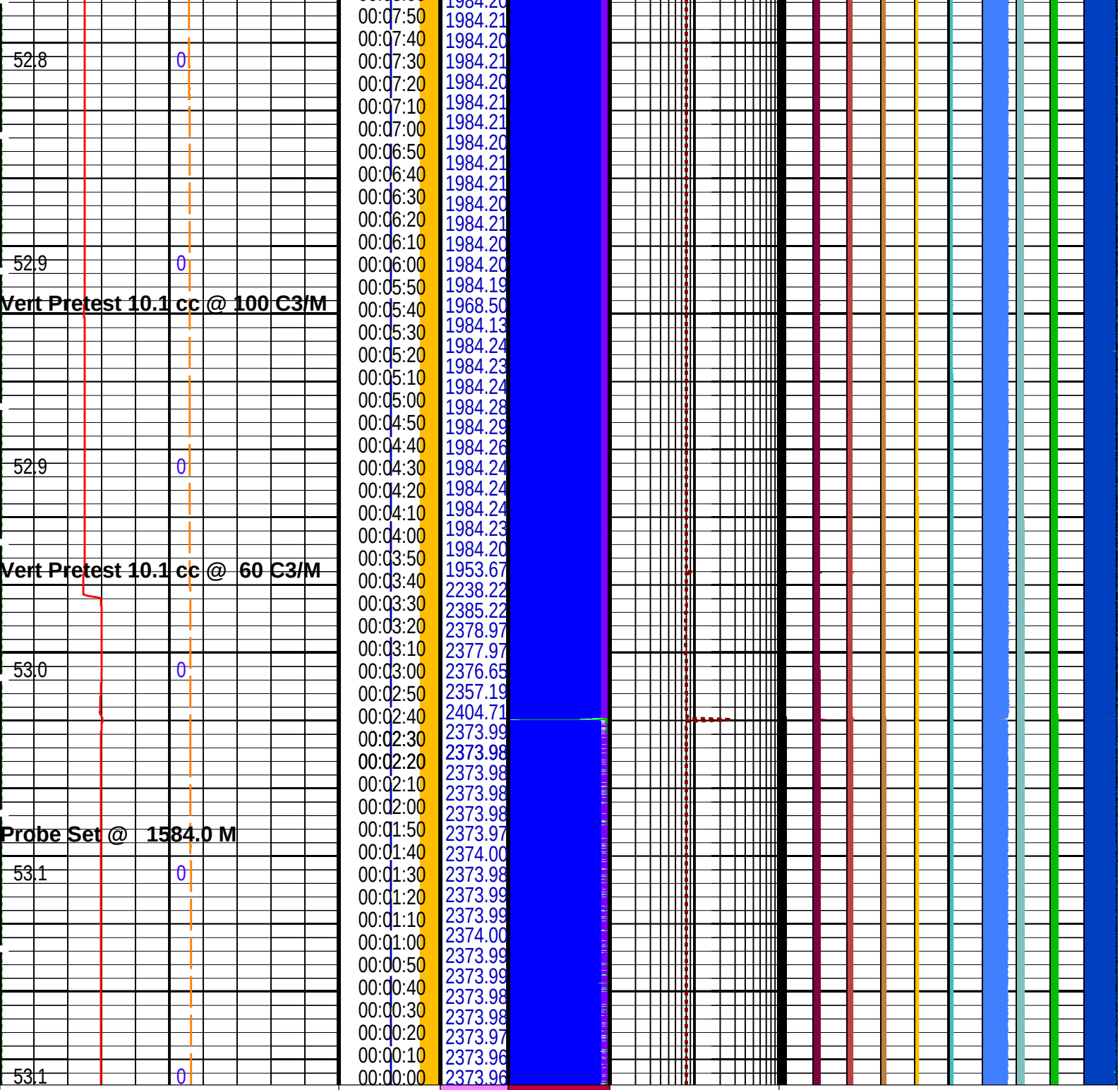
AFA Optical Density Channel 4 (FAOD_AFA[4])
−16 (−−−− 24

AFA Optical Density Channel 3 (FAOD_AFA[3])
−12 (−−−− 28

AFA Optical Density Channel 2 (FAOD_AFA[2])
−8 (−−−− 32


(----
5 260
MRPOUD Motor Current (POUDMC)
0 (AMPS) 20
MRPOUD Solenoid 3 Status (POUDS3)
5 (---- 0
Medium Gas
Water
AFA Fluid Coloration (FCOL_AFA)
(----
0.000001 0.0001
AFA Optical Density Channel 1 (FAOD_AFA[1])
−4 (---- 36
Pumped Volume (POUDPV) (C3)
Elapsed Time (ETIM) (S)
Low Gas
Highly Absorbing Fluid
AFA Fluid Coloration (FCOL_AFA)
0.0001 (---- 0.01
AFA Optical Density Channel 0 (FAOD_AFA[0])
0 (---- 40
00:27:50 2372.19
00:27:40 2371.63
00:27:30 2370.89
00:27:20 2370.48
00:27:10 2370.16
00:27:00 2369.67
00:26:50 2369.02
00:26:40 2368.53
00:26:30 2369.21
00:26:20 2368.43
00:26:10 2371.96
00:26:00 2273.73
00:25:50 2310.10
00:25:40 2355.76
00:25:30 1977.39
00:25:20 1984.32
00:25:10 1984.34
00:25:00 1984.34
00:24:50 1984.33
00:24:40 1984.34
00:24:30 1984.34
00:24:20 1984.33
00:24:10 1984.35
00:24:00 1984.32
00:23:50 1984.31
00:23:40 1984.31
00:23:30 1984.28
00:23:20 1984.28
00:23:10 1984.26
00:23:00 1984.23
00:22:50 1984.19
00:22:40 1984.02
00:22:30 1983.95
00:22:20 1983.94
00:22:10 1983.96
00:22:00 1983.88
00:21:50 1983.86
00:21:40 1734.66
00:21:30 1745.59
00:21:20 1741.52
00:21:10 1762.08
00:21:00 1708.08
00:20:50 1700.77
00:20:40 1704.56
00:20:30 1721.21
00:20:20 1716.82
00:20:10 1727.16
00:20:00 1750.34
00:19:50 1689.01
00:19:40 1694.53
00:19:30 1698.27
00:19:20 1713.80
00:19:10 1715.25
00:19:00 1728.63
53.4
0
Retract
53.4
0
53.6
0
53.8
0
Pumping Stopped-6790.0 C3
53.8
5820
53.7
4365


53.5
2910
53.4
1940
970
485
Pump Up Started
52.8
0
52.8
0
52.8
0
00:18:50 1693.32
00:18:40 1723.59
00:18:30 1710.34
00:18:20 1717.93
00:18:10 1749.31
00:18:00 1749.31
00:17:50 1759.75
00:17:40 1754.78
00:17:30 1756.93
00:17:20 1757.18
00:17:10 1762.79
00:17:00 1783.13
00:16:50 1771.11
00:16:40 1768.24
00:16:30 1796.22
00:16:20 1753.12
00:16:10 1756.30
00:16:00 1763.44
00:15:50 1757.03
00:15:40 1764.04
00:15:30 1766.60
00:15:20 1773.43
00:15:10 1775.88
00:15:00 1783.65
00:14:50 1803.58
00:14:40 1786.79
00:14:30 1834.88
00:14:20 1837.57
00:14:10 1841.50
00:14:00 1841.15
00:13:50 1849.47
00:13:40 1818.55
00:13:30 1763.75
00:13:20 1780.24
00:13:10 1801.33
00:13:00 1804.59
00:12:50 1828.97
00:12:40 1831.90
00:12:30 1850.32
00:12:20 1838.66
00:12:10 1864.09
00:12:00 1902.85
00:11:50 2201.14
00:11:40 2202.77
00:11:30 2202.28
00:11:20 2200.23
00:11:10 2111.85
00:11:00 1984.29
00:10:50 1984.20
00:10:40 1984.20
00:10:30 1984.20
00:10:20 1984.20
00:10:10 1984.20
00:10:00 1984.19
00:09:50 1984.20
00:09:40 1984.20
00:09:30 1984.21
00:09:20 1984.20
00:09:10 1984.21
00:09:00 1984.21
00:08:50 1984.20
00:08:40 1984.20
00:08:30 1984.20
00:08:20 1984.20
00:08:10 1984.20
00:08:00 1984.21


52.8
0
52.9
0
Vert Pretest 10.1 cc @ 100 C3/M
52.9
0
Vert Pretest 10.1 cc @ 60 C3/M
53.0
0
Probe Set @ 1584.0 M
53.1
0
53.1
0
00:07:50 1984.21
00:07:40 1984.20
00:07:30 1984.21
00:07:20 1984.20
00:07:10 1984.21
00:07:00 1984.21
00:06:50 1984.20
00:06:40 1984.21
00:06:30 1984.21
00:06:20 1984.20
00:06:10 1984.21
00:06:00 1984.20
00:05:50 1984.19
00:05:40 1968.50
00:05:30 1984.13
00:05:20 1984.24
00:05:10 1984.23
00:05:00 1984.24
00:04:50 1984.28
00:04:40 1984.29
00:04:30 1984.26
00:04:20 1984.24
00:04:10 1984.24
00:04:00 1984.23
00:03:50 1984.20
00:03:40 1953.67
00:03:30 2238.22
00:03:20 2385.22
00:03:10 2378.97
00:03:00 2377.97
00:02:50 2376.65
00:02:40 2357.19
00:02:30 2404.71
00:02:20 2373.99
00:02:10 2373.98
00:02:00 2373.98
00:01:50 2373.98
00:01:40 2373.97
00:01:30 2374.00
00:01:20 2373.98
00:01:10 2373.99
00:01:00 2373.99
00:00:50 2374.00
00:00:40 2373.99
00:00:30 2373.99
00:00:20 2373.98
00:00:10 2373.97
00:00:00 2373.96
Pumped Volume (POUDPV) (C3)
Elapsed Time (ETIM) (S)
Low Gas
Highly Absorbing Fluid
AFA Fluid Coloration (FCOL_AFA)
0.0001 (---- 0.01
AFA Optical Density Channel 0 (FAOD_AFA[0])
0 (---- 40
MRPOUD Motor Current (POUDMC)
0 (AMPS) 20
MRPOUD Solenoid 3 Status (POUDS3)
5 (---- 0
Medium Gas
Water
AFA Fluid Coloration (FCOL_AFA)
(----
0.000001 0.0001
AFA Optical Density Channel 1 (FAOD_AFA[1])
-4 (---- 36
MRPOUD Motor Speed (POUDMS)
0 (RPM) 5000
MRMS 1 Upper Valve Position (MUP1)
(----
5 260
High Gas
Oil
AFA Optical Density Channel 2 (FAOD_AFA[2])
-8 (---- 32
AFA Optical Density Channel 3 (FAOD

AFA GOR (GOR_AFA)
0 (F3/B) 30000

Resistivity Cell Temperature (PQ1TR) (DEGC)

AFA GOR (GOR_AFA) (F3/B)

MRPQ 1 Resistivity Cell Temperature (PQ1TR)
75 (DEGC) 125

MRPQ 1 Quartz Gauge Pressure (PQQP1)
0 (PSIA) 8000

MRPOUD Hydraulic Pressure (POUDHP)
0 (PSIG) 10000

MRPOUD Hydraulic Pump Output Volume (POUDPV)
0 (C3) 10000

MRPQ 1 Quartz Gauge Pressure (PQQP1) (PSIA)

AFA[3])
−12 (−−−− 28

AFA Optical Density Channel 4 (FAOD_AFA[4])
−16 (−−−− 24

AFA Optical Density Channel 5 (FAOD_AFA[5])
−20 (−−−− 20

AFA Optical Density Channel 6 (FAOD_AFA[6])
−24 (−−−− 16

AFA Optical Density Channel 7 (FAOD_AFA[7])
−28 (−−−− 12

AFA Optical Density Channel 8 (FAOD_AFA[8])
−32 (−−−− 8

AFA Optical Density Channel 9 (FAOD_AFA[9])
−36 (−−−− 4

PIP SUMMARY

Time Mark Every 60 S

Parameters

DLIS Name	Description	Value	
	MRPQ_1: Quick Probe Module (MRPQ) 1		
QGCA	Quartz Gauge Pressure Correction Applied	BOTH	
QGDA	Quartz Gauge Deviation Angle	12	DEG
QGFD	Quartz Gauge Flow Line Density	1	G/C3
	MRPO_UD: Dual Up−down Pumpout Module (MRPOUD)		
POUDDISPVOL	MRPOUD Displacement Unit Stroke Volume	485	
	AFA: Advanced Fluid Analyzer		
CEXP_AFA	AFA Coloration Exponent	4.6	
DCDW_AFA	AFA Decolor and Dewater Allow/Disallow for Gas Oil Ratio	ALLOW	
FAGM_AFA	AFA GOR Allow/Disallow Mode	ALLOW	
FAJM_AFA	AFA Job Mode	LFA	
FATCM_AFA	AFA Temp. Coef. Measure Mode	** V **	
FATCS_AFA	AFA Temp. Coef. Source Mode	** V **	
GASH_AFA	AFA Gas Indicator High Level Threshold	0.4	
GASL_AFA	AFA Gas Indicator Low Level Threshold	0.05	
GASM_AFA	AFA Gas Indicator Medium Level Threshold	0.1	
GORD_AFA	AFA GOR Disqualification Level	0.1	
PDCO	Probe Depth Correction Offset	0	M
SATL_AFA	AFA Saturation Level of Optical Density Measurement	** V **	
TCPS_STATUS_AFA	AFA Temperature Compensation Coefficient Status	VALID	
	MRPC: Power Cartridge		
PDCO	Probe Depth Correction Offset	0	M

Format: MRPQ_AFA_Hydrocarbon Vertical Scale: 1" per 60S Graphics File Created: 20−May−2008 12:43

OP System Version: 15C0−309

MCM

MRPQ_1	15C0−309	MRHY_1	15C0−309
MRPO_UD	15C0−309	AFA	15C0−309
MRMS_1	15C0−309	MRPC	15C0−309
SGT−L	15C0−309	TCC−BF	15C0−309

Output DLIS Files

DEFAULT MDT_OFA_026LTP FN:47 PRODUCER 20−May−2008 12:43

Station @ 1593.7 m

Schlumberger

Station @ 1593.7 m
MD

MAXIS Field Log

Company: 3D Oil **Well: Wardie−1**

Output DLIS Files

DEFAULT	MDT_OFA_044LTP	FN:65	PRODUCER	20−May−2008 17:40	1593.7 M	8.5 M

Elapsed Time (s)	Event Summary
3285.0	Pumping Stopped 12125.0 C3 Dual Up−down Pumpout Module (MRPOUD)
2570.7	Pump Down Started Dual Up−down Pumpout Module (MRPOUD)
2294.4	Retract Quick Probe Module (MRPQ) 1
2190.3	Pumping Stopped 6305.0 C3 Dual Up−down Pumpout Module (MRPOUD)
2068.5	Seal MDT Multi−Sample (MRMS) 1, bottle 3
1584.9	Open MDT Multi−Sample (MRMS) 1, bottle 3, sample number = 3
645.0	Pump Up Started Dual Up−down Pumpout Module (MRPOUD)
429.3	Vert Pretest 10.0 cc @ 100 C3/M Quick Probe Module (MRPQ) 1
280.5	Vert Pretest 10.2 cc @ 40 C3/M Quick Probe Module (MRPQ) 1
195.3	Probe Set @ 1593.7 M Quick Probe Module (MRPQ) 1

PIP SUMMARY

Time Mark Every 60 S

MRPOUD Hydraulic Pump Output Volume (POUDPV)
0 (C3) 10000

MRPOUD Hydraulic Pressure (POUDHP)
0 (PSIG) 10000

MRPQ 1 Quartz Gauge Pressure (PQQP1)
0 (PSIA) 8000

MRPQ 1 Resistivity Cell Temperature (PQ1TR)
75 (DEGC) 125

Resistivity Cell Temperature (PQ1TR) (DEGC)

AFA GOR (GOR_AFA) (F3/B)

AFA GOR (GOR_AFA)
0 (F3/B) 30000

MRPQ 1 Quartz Gauge Pressure (PQQP1) (PSIA)

MRMS 1 Upper

AFA Optical Density Channel 9 (FAOD_AFA[9])
−36 (−−−− 4

AFA Optical Density Channel 8 (FAOD_AFA[8])
−32 (−−−− 8

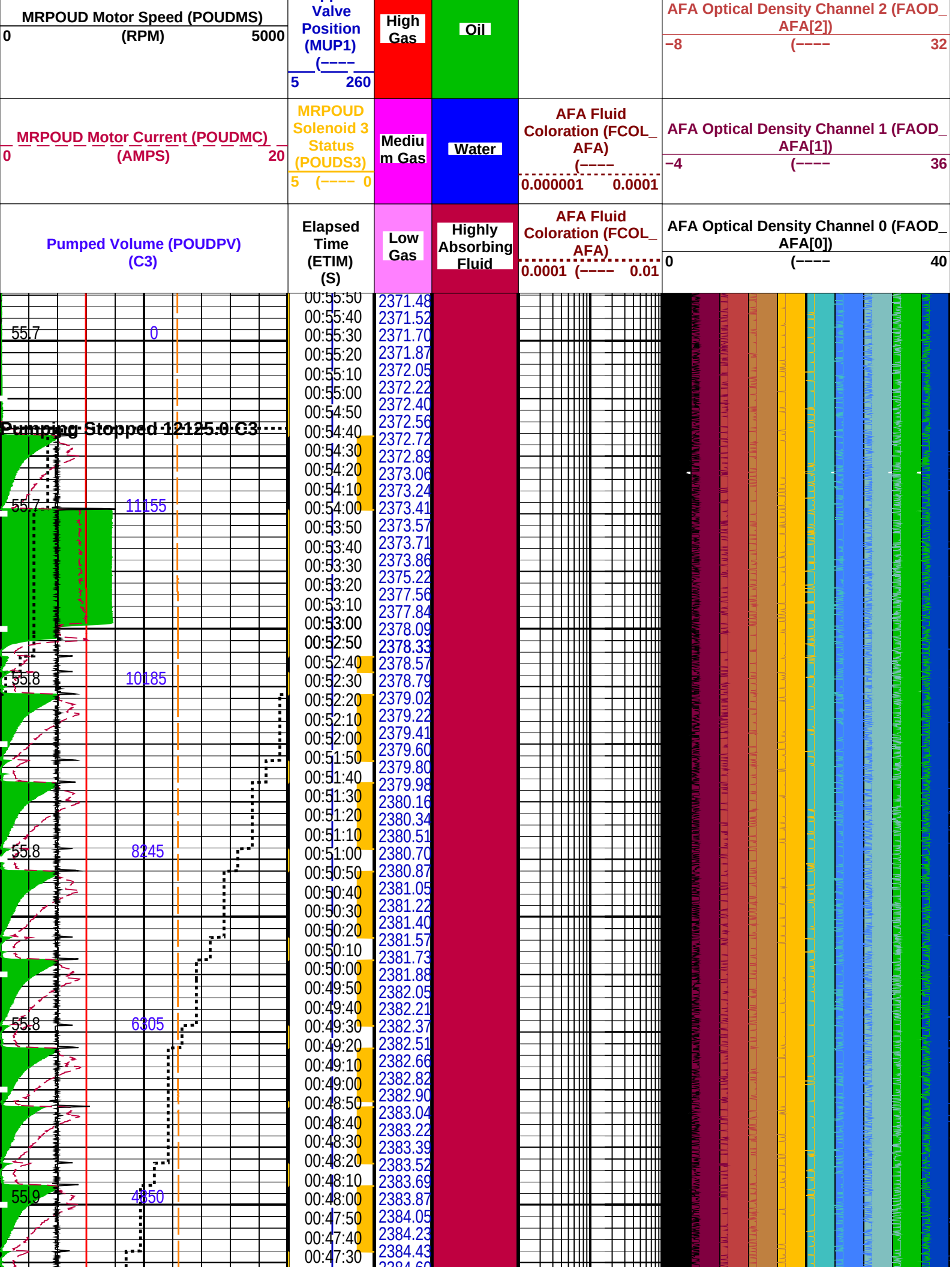
AFA Optical Density Channel 7 (FAOD_AFA[7])
−28 (−−−− 12

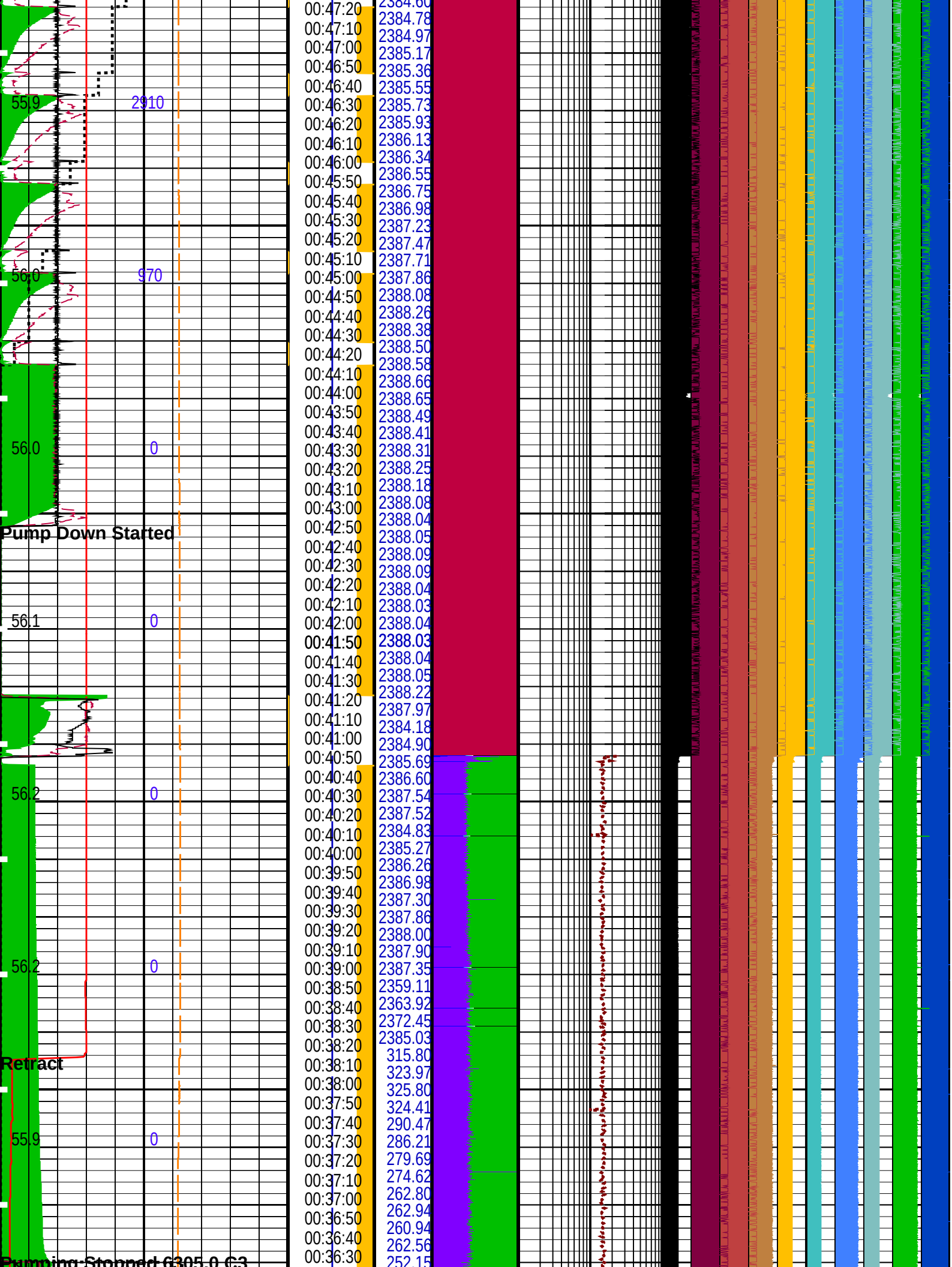
AFA Optical Density Channel 6 (FAOD_AFA[6])
−24 (−−−− 16

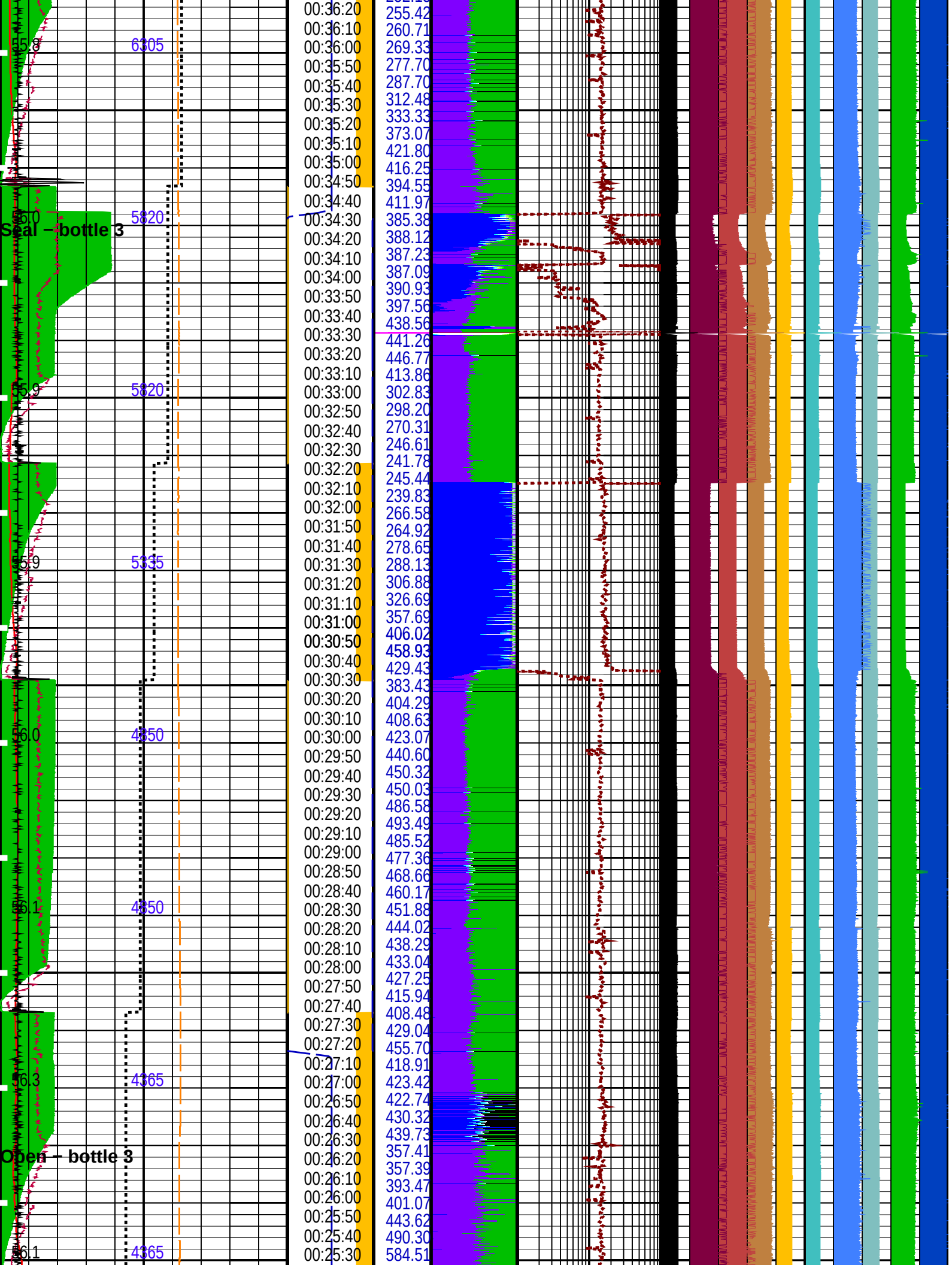
AFA Optical Density Channel 5 (FAOD_AFA[5])
−20 (−−−− 20

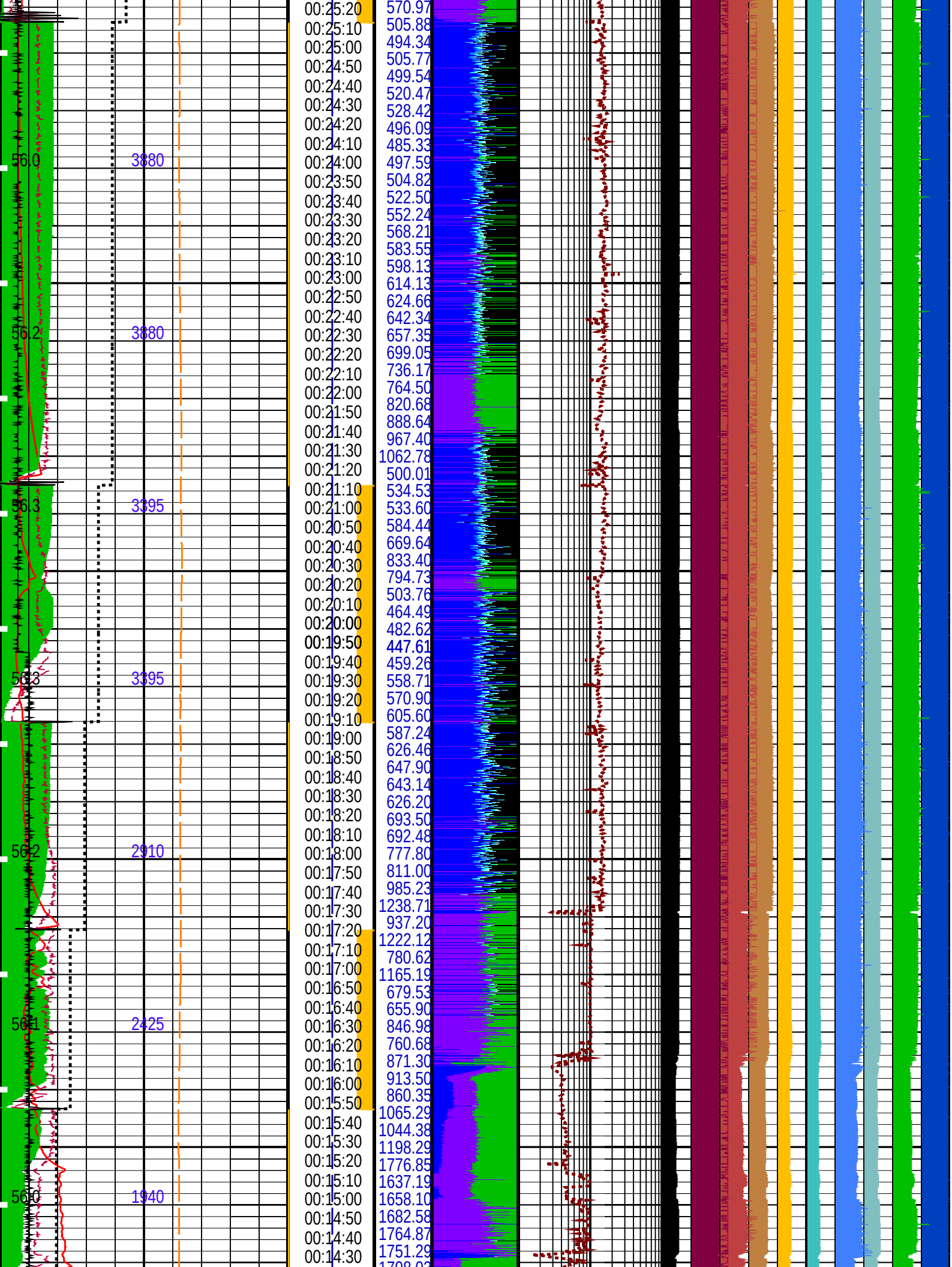
AFA Optical Density Channel 4 (FAOD_AFA[4])
−16 (−−−− 24

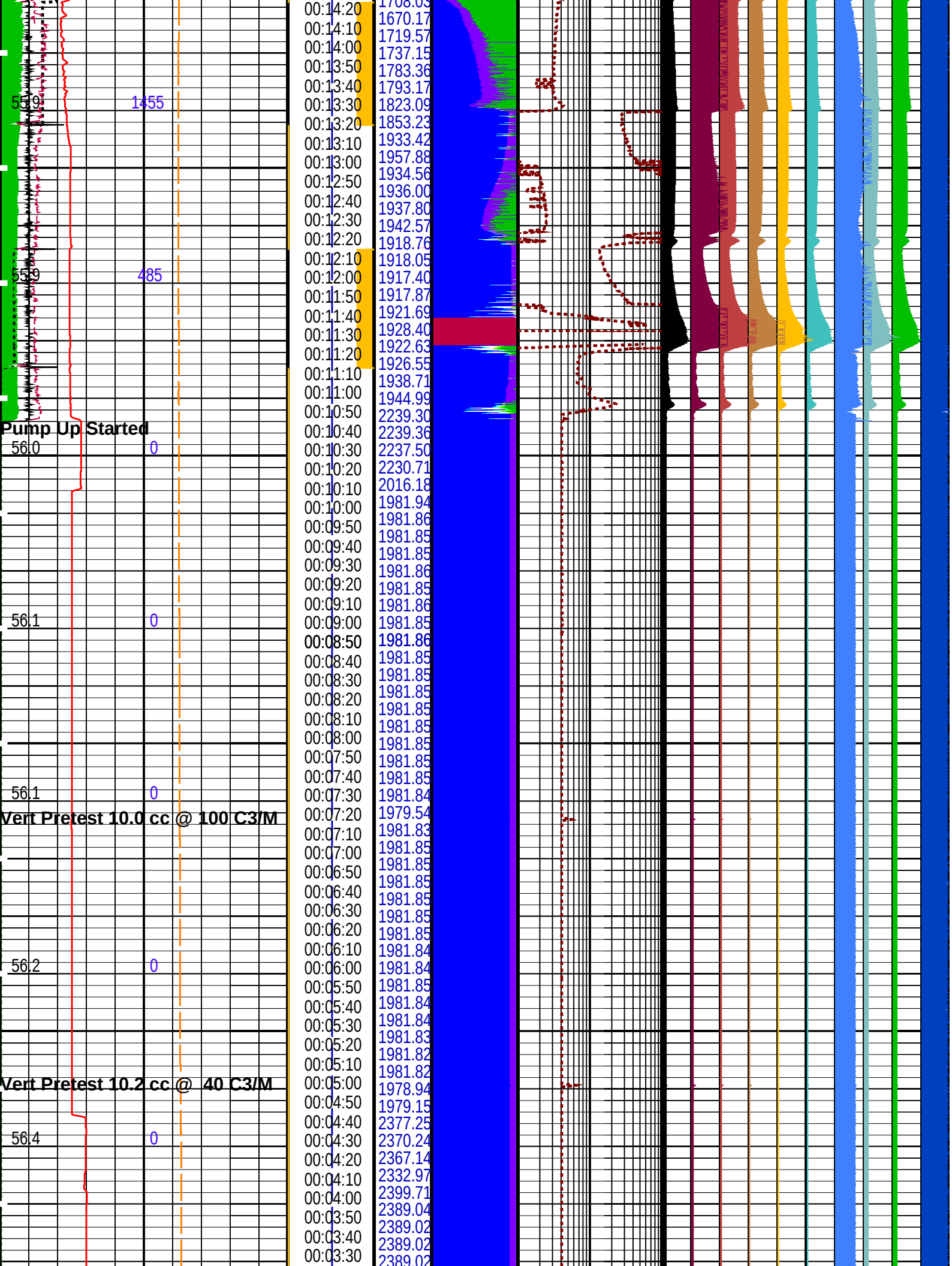
AFA Optical Density Channel 3 (FAOD_AFA[3])
−12 (−−−− 28

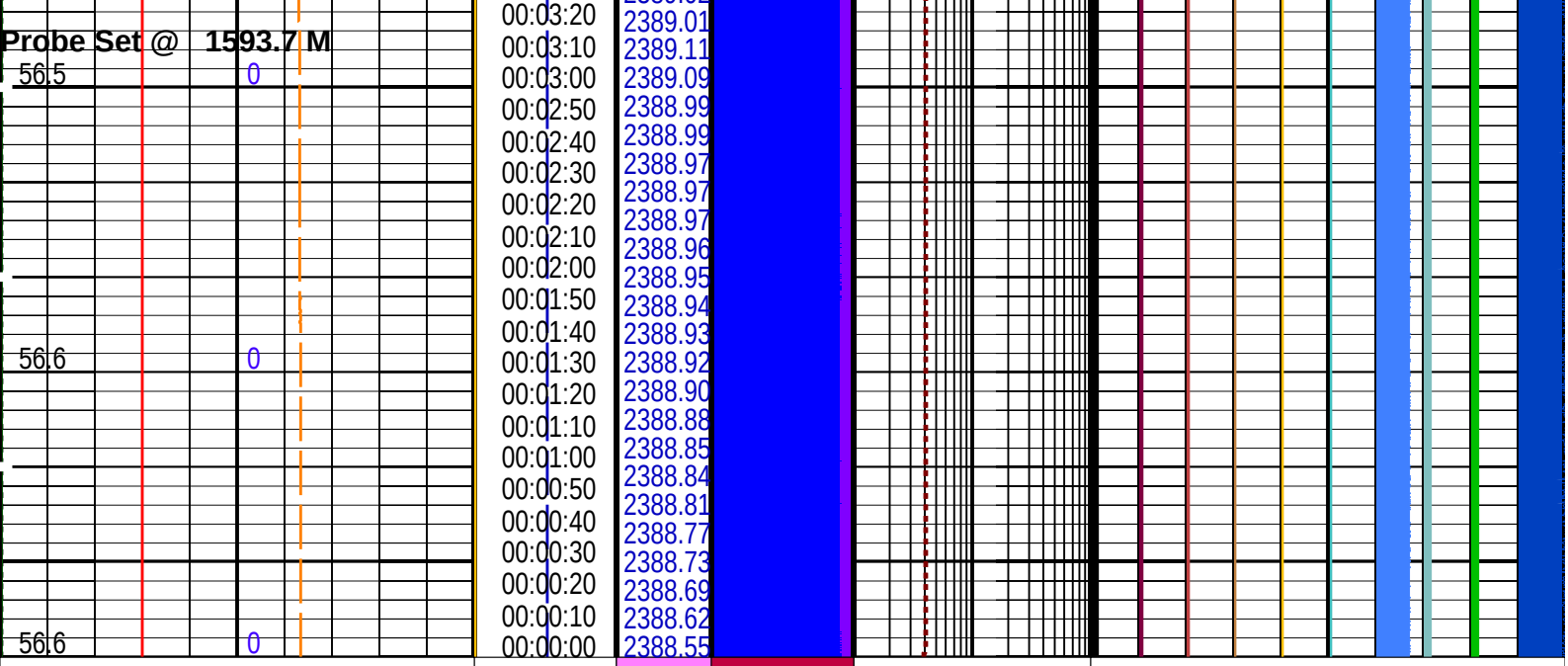

MRPOUD Motor Speed (POUDMS)
0 (RPM) 5000
Valve Position (MUP1) (----
5 260
High Gas
Oil
AFA Optical Density Channel 2 (FAOD_AFA[2])
-8 (---- 32
MRPOUD Motor Current (POUDMC)
0 (AMPS) 20
MRPOUD Solenoid 3 Status (POUDS3)
5 (---- 0
Mediu m Gas
Water
AFA Fluid Coloration (FCOL_AFA) (----
0.000001 0.0001
AFA Optical Density Channel 1 (FAOD_AFA[1])
-4 (---- 36
Pumped Volume (POUDPV) (C3)
Elapsed Time (ETIM) (S)
Low Gas
Highly Absorbing Fluid
AFA Fluid Coloration (FCOL_AFA)
0.0001 (---- 0.01
AFA Optical Density Channel 0 (FAOD_AFA[0])
0 (---- 40
Pumping Stopped 12125.0 C3
55.7 0
55.7 11155
55.8 10185
55.8 8245
55.8 6305
55.9 4350
00:55:50 2371.48
00:55:40 2371.52
00:55:30 2371.70
00:55:20 2371.87
00:55:10 2372.05
00:55:00 2372.22
00:54:50 2372.40
00:54:40 2372.56
00:54:30 2372.72
00:54:20 2372.89
00:54:10 2373.06
00:54:00 2373.24
00:53:50 2373.41
00:53:40 2373.57
00:53:30 2373.71
00:53:20 2373.86
00:53:10 2375.22
00:53:00 2377.56
00:52:50 2377.84
00:52:40 2378.09
00:52:30 2378.33
00:52:20 2378.57
00:52:10 2378.79
00:52:00 2379.02
00:51:50 2379.22
00:51:40 2379.41
00:51:30 2379.60
00:51:20 2379.80
00:51:10 2379.98
00:51:00 2380.16
00:50:50 2380.34
00:50:40 2380.51
00:50:30 2380.70
00:50:20 2380.87
00:50:10 2381.05
00:50:00 2381.22
00:49:50 2381.40
00:49:40 2381.57
00:49:30 2381.73
00:49:20 2381.88
00:49:10 2382.05
00:49:00 2382.21
00:48:50 2382.37
00:48:40 2382.51
00:48:30 2382.66
00:48:20 2382.82
00:48:10 2382.90
00:48:00 2383.04
00:47:50 2383.22
00:47:40 2383.39
00:47:30 2383.52
00:47:20 2383.69
00:47:10 2383.87
00:47:00 2384.05
00:46:50 2384.23
00:46:40 2384.43


55.9
2910
56.0
970
56.0
0
Pump Down Started
56.1
0
56.2
0
56.2
0
Retract
55.9
0
Pumping Stopped 6305.0 63
00:47:20 2384.78
00:47:10 2384.97
00:47:00 2385.17
00:46:50 2385.36
00:46:40 2385.55
00:46:30 2385.73
00:46:20 2385.93
00:46:10 2386.13
00:46:00 2386.34
00:45:50 2386.55
00:45:40 2386.75
00:45:30 2386.98
00:45:20 2387.23
00:45:10 2387.47
00:45:00 2387.71
00:44:50 2387.86
00:44:40 2388.08
00:44:30 2388.26
00:44:20 2388.38
00:44:10 2388.50
00:44:00 2388.58
00:43:50 2388.65
00:43:40 2388.49
00:43:30 2388.41
00:43:20 2388.31
00:43:10 2388.25
00:43:00 2388.18
00:42:50 2388.08
00:42:40 2388.04
00:42:30 2388.05
00:42:20 2388.09
00:42:10 2388.09
00:42:00 2388.04
00:41:50 2388.03
00:41:40 2388.04
00:41:30 2388.05
00:41:20 2388.22
00:41:10 2387.97
00:41:00 2384.18
00:40:50 2384.90
00:40:40 2385.69
00:40:30 2386.60
00:40:20 2387.54
00:40:10 2387.52
00:40:00 2384.83
00:39:50 2385.27
00:39:40 2386.26
00:39:30 2386.98
00:39:20 2387.30
00:39:10 2387.86
00:39:00 2388.00
00:38:50 2387.90
00:38:40 2387.35
00:38:30 2359.11
00:38:20 2363.92
00:38:10 2372.45
00:38:00 2385.03
00:37:50 315.80
00:37:40 323.97
00:37:30 325.80
00:37:20 324.41
00:37:10 290.47
00:37:00 286.21
00:36:50 279.69
00:36:40 274.62
00:36:30 262.80
262.94
260.94
262.56
252.15


6305
5820
Seal – bottle 3
5820
5335
4850
4850
4365
Open – bottle 3
4365
00:36:20 255.42
00:36:10 260.71
00:36:00 269.33
00:35:50 277.70
00:35:40 287.70
00:35:30 312.48
00:35:20 333.33
00:35:10 373.07
00:35:00 421.80
00:34:50 416.25
00:34:40 394.55
00:34:30 411.97
00:34:20 385.38
00:34:10 388.12
00:34:00 387.23
00:33:50 387.09
00:33:40 390.93
00:33:30 397.56
00:33:20 438.56
00:33:10 441.26
00:33:00 446.77
00:32:50 413.86
00:32:40 302.83
00:32:30 298.20
00:32:20 270.31
00:32:10 246.61
00:32:00 241.78
00:31:50 245.44
00:31:40 239.83
00:31:30 266.58
00:31:20 264.92
00:31:10 278.65
00:31:00 288.13
00:30:50 306.88
00:30:40 326.69
00:30:30 357.69
00:30:20 406.02
00:30:10 458.93
00:30:00 429.43
00:29:50 383.43
00:29:40 404.29
00:29:30 408.63
00:29:20 423.07
00:29:10 440.60
00:29:00 450.32
00:28:50 450.03
00:28:40 486.58
00:28:30 493.49
00:28:20 485.52
00:28:10 477.36
00:28:00 468.66
00:27:50 460.17
00:27:40 451.88
00:27:30 444.02
00:27:20 438.29
00:27:10 433.04
00:27:00 427.25
00:26:50 415.94
00:26:40 408.48
00:26:30 429.04
00:26:20 455.70
00:26:10 418.91
00:26:00 423.42
00:25:50 422.74
00:25:40 430.32
00:25:30 439.73
357.41
357.39
393.47
401.07
443.62
490.30
584.51


56.0
3880
56.2
3880
56.3
3395
3395
2910
2425
1940
00:25:20 570.97
00:25:10 505.88
00:25:00 494.34
00:24:50 505.77
00:24:40 499.54
00:24:30 520.47
00:24:20 528.42
00:24:10 496.09
00:24:00 485.33
00:23:50 497.59
00:23:40 504.82
00:23:30 522.50
00:23:20 552.24
00:23:10 568.21
00:23:00 583.55
00:22:50 598.13
00:22:40 614.13
00:22:30 624.66
00:22:20 642.34
00:22:10 657.35
00:22:00 699.05
00:21:50 736.17
00:21:40 764.50
00:21:30 820.68
00:21:20 888.64
00:21:10 967.40
00:21:00 1062.78
00:20:50 500.01
00:20:40 534.53
00:20:30 533.60
00:20:20 584.44
00:20:10 669.64
00:20:00 833.40
00:19:50 794.73
00:19:40 503.76
00:19:30 464.49
00:19:20 482.62
00:19:10 447.61
00:19:00 459.26
00:18:50 558.71
00:18:40 570.90
00:18:30 605.60
00:18:20 587.24
00:18:10 626.46
00:18:00 647.90
00:17:50 643.14
00:17:40 626.20
00:17:30 693.50
00:17:20 692.48
00:17:10 777.80
00:17:00 811.00
00:16:50 985.23
00:16:40 1238.71
00:16:30 937.20
00:16:20 1222.12
00:16:10 780.62
00:16:00 1165.19
00:15:50 679.53
00:15:40 655.90
00:15:30 846.98
00:15:20 760.68
00:15:10 871.30
00:15:00 913.50
00:14:50 860.35
00:14:40 1065.29
00:14:30 1044.38
1198.29
1776.85
1637.19
1658.10
1682.58
1764.87
1751.29


55.9
1455
55.9
485
Pump Up Started
56.0
0
56.1
0
56.1
0
Vert Pretest 10.0 cc @ 100 C3/M
56.2
0
Vert Pretest 10.2 cc @ 40 C3/M
56.4
0
00:14:20 1708.03
00:14:10 1670.17
00:14:00 1719.57
00:13:50 1737.15
00:13:40 1783.36
00:13:30 1793.17
00:13:20 1823.09
00:13:10 1853.23
00:13:00 1933.42
00:12:50 1957.88
00:12:40 1934.56
00:12:30 1936.00
00:12:20 1937.80
00:12:10 1942.57
00:12:00 1918.76
00:11:50 1918.05
00:11:40 1917.40
00:11:30 1917.87
00:11:20 1921.69
00:11:10 1928.40
00:11:00 1922.63
00:10:50 1926.55
00:10:40 1938.71
00:10:30 1944.99
00:10:20 2239.30
00:10:10 2239.36
00:10:00 2237.50
00:09:50 2230.71
00:09:40 2016.18
00:09:30 1981.94
00:09:20 1981.86
00:09:10 1981.85
00:09:00 1981.85
00:08:50 1981.86
00:08:40 1981.86
00:08:30 1981.85
00:08:20 1981.85
00:08:10 1981.85
00:08:00 1981.85
00:07:50 1981.85
00:07:40 1981.85
00:07:30 1981.84
00:07:20 1979.54
00:07:10 1981.83
00:07:00 1981.85
00:06:50 1981.85
00:06:40 1981.85
00:06:30 1981.85
00:06:20 1981.85
00:06:10 1981.84
00:06:00 1981.84
00:05:50 1981.85
00:05:40 1981.84
00:05:30 1981.84
00:05:20 1981.83
00:05:10 1981.82
00:05:00 1981.82
00:04:50 1978.94
00:04:40 1979.15
00:04:30 2377.25
00:04:20 2370.24
00:04:10 2367.14
00:04:00 2332.97
00:03:50 2399.71
00:03:40 2389.04
00:03:30 2389.02
2389.02



Pumped Volume (POUDPV) (C3)

Elapsed Time (ETIM) (S)

Low Gas

Highly Absorbing Fluid

AFA Fluid Coloration (FCOL_AFA)
0.0001 (---- 0.01

AFA Optical Density Channel 0 (FAOD_AFA[0])
0 (---- 40

MRPOUD Motor Current (POUDMC)
0 (AMPS) 20

MRPOUD Solenoid 3 Status (POUDS3)
5 (---- 0

Medium Gas

Water

AFA Fluid Coloration (FCOL_AFA)
(----
0.000001 0.0001

AFA Optical Density Channel 1 (FAOD_AFA[1])
-4 (---- 36

MRPOUD Motor Speed (POUDMS)
0 (RPM) 5000

MRMS 1 Upper Valve Position (MUP1)
(----
5 260

High Gas

Oil

AFA Optical Density Channel 2 (FAOD_AFA[2])
-8 (---- 32

AFA GOR (GOR_AFA)
0 (F3/B) 30000

MRPQ 1 Quartz Gauge Pressure (PQQP1) (PSIA)

AFA Optical Density Channel 3 (FAOD_AFA[3])
-12 (---- 28

Resistivity Cell Temperature (PQ1TR) (DEGC)

AFA GOR (GOR_AFA) (F3/B)

AFA Optical Density Channel 4 (FAOD_AFA[4])
-16 (---- 24

MRPQ 1 Resistivity Cell Temperature (PQ1TR)
75 (DEGC) 125

AFA Optical Density Channel 5 (FAOD_AFA[5])
-20 (---- 20

MRPQ 1 Quartz Gauge Pressure (PQQP1)
0 (PSIA) 8000

AFA Optical Density Channel 6 (FAOD_AFA[6])
-24 (---- 16

MRPOUD Hydraulic Pressure (POUDHP)
0 (PSIG) 10000

AFA Optical Density Channel 7 (FAOD_AFA[7])
-28 (---- 12

MRPOUD Hydraulic Pump Output Volume (POUDPV)
0 (C3) 10000

AFA Optical Density Channel 8 (FAOD_AFA[8])
-32 (---- 8

AFA Optical Density Channel 9 (FAOD_AFA[9])
-36 (---- 4

PIP SUMMARY

Time Mark Every 60 S

Parameters

DLIS Name	Description	Value	
	MRPQ_1: Quick Probe Module (MRPQ) 1		
QGCA	Quartz Gauge Pressure Correction Applied	BOTH	
QGDA	Quartz Gauge Deviation Angle	12	DEG
QGFD	Quartz Gauge Flow Line Density	1	G/C3
	MRPO_UD: Dual Up−down Pumpout Module (MRPOUD)		
POUDDISPVOL	MRPOUD Displacement Unit Stroke Volume	485	
	AFA: Advanced Fluid Analyzer		
CEXP_AFA	AFA Coloration Exponent	4.6	
DCDW_AFA	AFA Decolor and Dewater Allow/Disallow for Gas Oil Ratio	ALLOW	
FAGM_AFA	AFA GOR Allow/Disallow Mode	ALLOW	
FAJM_AFA	AFA Job Mode	LFA	
FATCM_AFA	AFA Temp. Coef. Measure Mode	** V **	
FATCS_AFA	AFA Temp. Coef. Source Mode	** V **	
GASH_AFA	AFA Gas Indicator High Level Threshold	0.4	
GASL_AFA	AFA Gas Indicator Low Level Threshold	0.05	
GASM_AFA	AFA Gas Indicator Medium Level Threshold	0.1	
GORD_AFA	AFA GOR Disqualification Level	0.1	
PDCO	Probe Depth Correction Offset	0	M
SATL_AFA	AFA Saturation Level of Optical Density Measurement	** V **	
TCPS_STATUS_AFA	AFA Temperature Compensation Coefficient Status	VALID	
	MRPC: Power Cartridge		
PDCO	Probe Depth Correction Offset	0	M

Format: MRPQ_AFA_Hydrocarbon Vertical Scale: 1" per 60S Graphics File Created: 20−May−2008 17:40

OP System Version: 15C0−309

MCM

MRPQ_1	15C0−309	MRHY_1	15C0−309
MRPO_UD	15C0−309	AFA	15C0−309
MRMS_1	15C0−309	MRPC	15C0−309
SGT−L	15C0−309	TCC−BF	15C0−309

Output DLIS Files

DEFAULT	MDT_OFA_044LTP	FN:65	PRODUCER	20−May−2008 17:40	

Schlumberger

Correlation

MAXIS Field Log

Company: Well:

Output DLIS Files

DEFAULT	MDT_OFA_023LUP	FN:44	PRODUCER	20−May−2008 10:34	1680.7 M	1606.9 M

OP System Version: 15C0−309

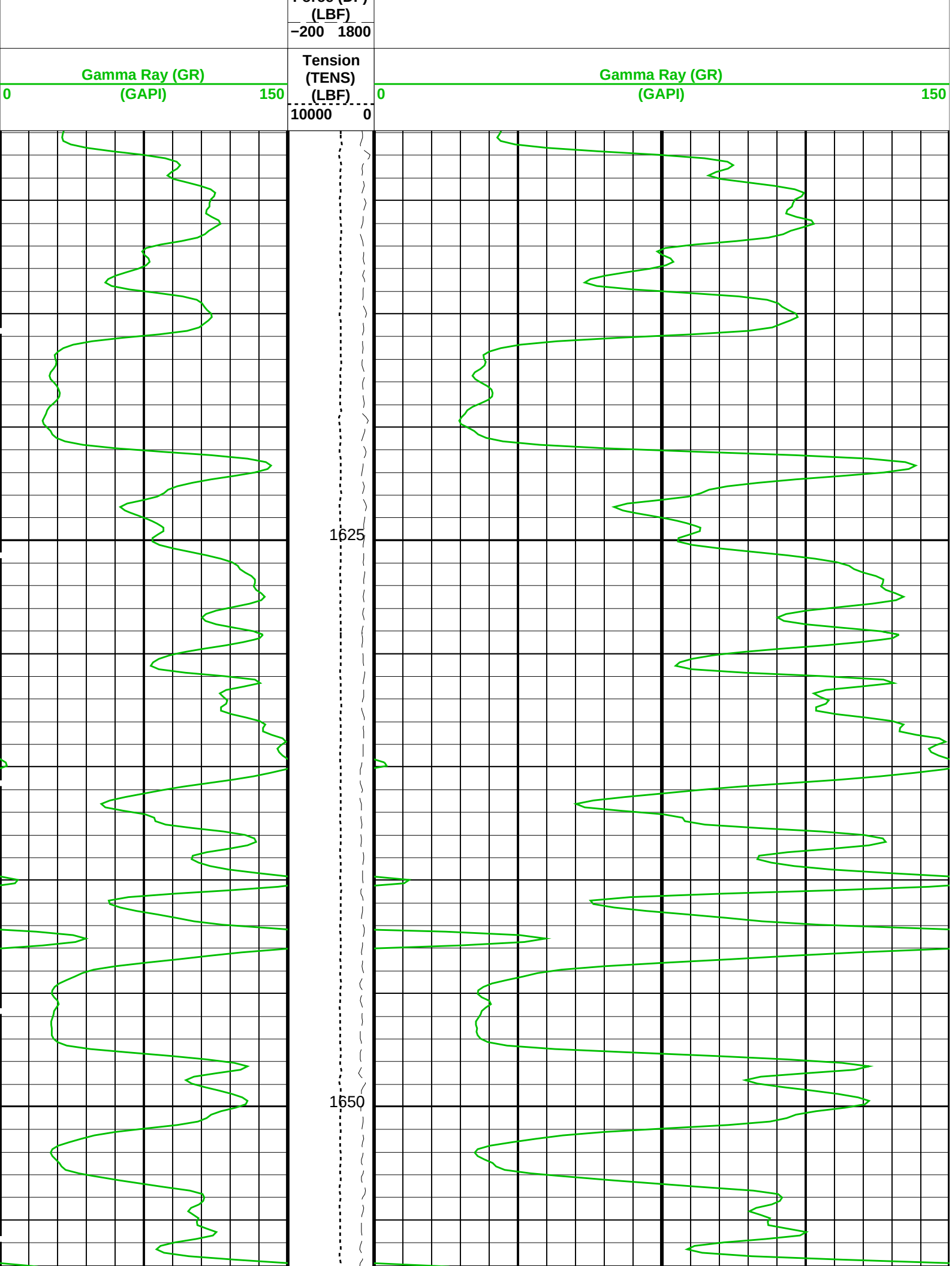
MCM

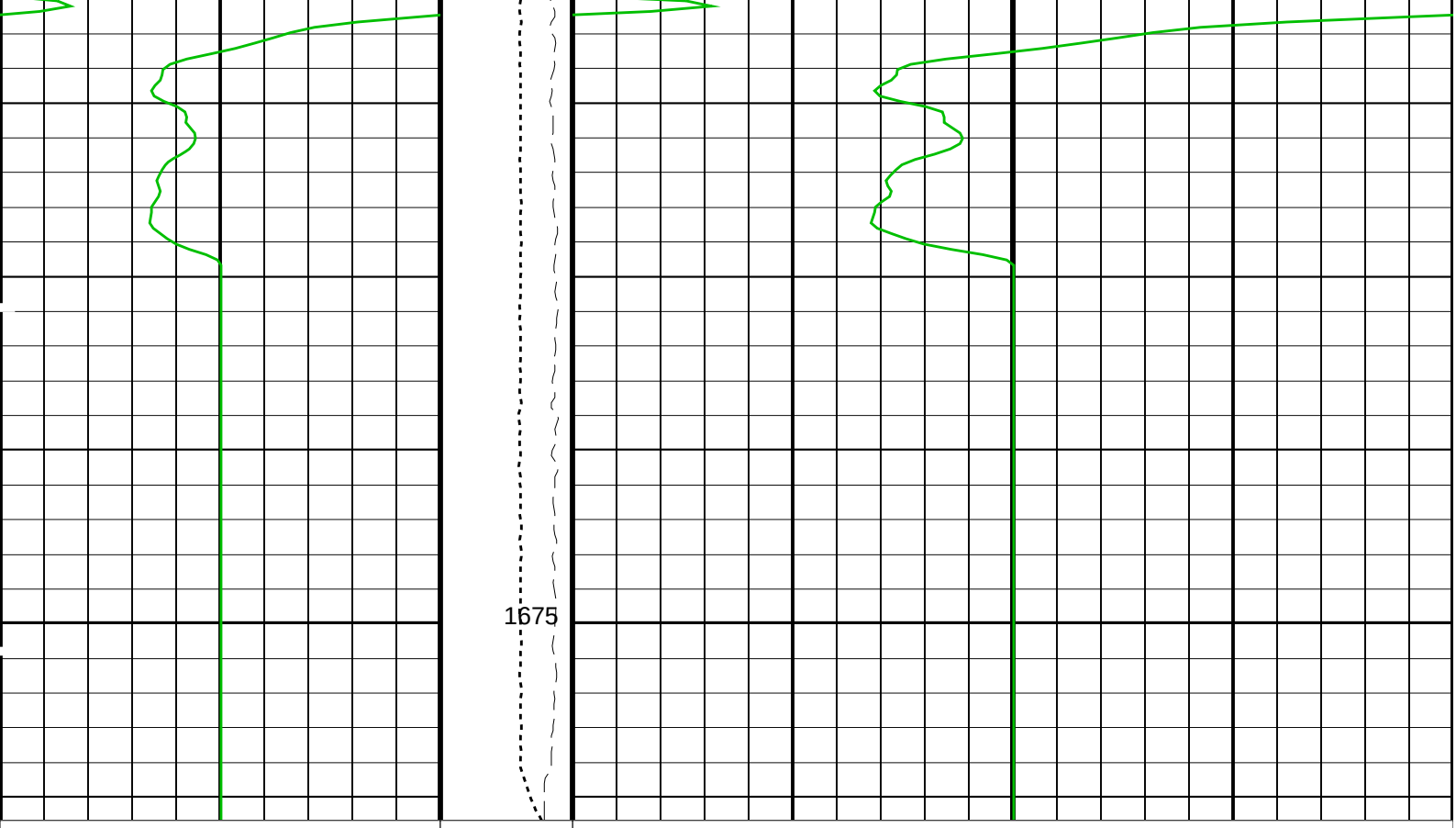
MRPQ_1	15C0−309	MRHY_1	15C0−309
MRPO_UD	15C0−309	AFA	15C0−309
MRMS_1	15C0−309	MRPC	15C0−309
SGT−L	15C0−309	TCC−BF	15C0−309

PIP SUMMARY

Time Mark Every 60 S

	Uncalibrated Downhole Force (DF)	


(LBF)
−200 1800
Gamma Ray (GR)
0 (GAPI) 150
Tension
(TENS)
(LBF)
10000 0
Gamma Ray (GR)
0 (GAPI) 150
1625
1650



Gamma Ray (GR) (GAPI)	Tension (TENS) (LBF)	Gamma Ray (GR) (GAPI)
0 150	10000 0	0 150
	Uncalibrated Downhole Force (DF) (LBF) −200 1800	

PIP SUMMARY

Time Mark Every 60 S

Parameters

DLIS Name	Description	Value
	AFA: Advanced Fluid Analyzer	
PDCO	Probe Depth Correction Offset	0 M
	MRPC: Power Cartridge	
PDCO	Probe Depth Correction Offset	0 M

Format: Correlation **Vertical Scale: 1:200** **Graphics File Created: 20−May−2008 10:34**

OP System Version: 15C0−309

MCM

MRPQ_1	15C0−309	MRHY_1	15C0−309
MRPO_UD	15C0−309	AFA	15C0−309
MRMS_1	15C0−309	MRPC	15C0−309
SGT−L	15C0−309	TCC−BF	15C0−309

Output DLIS Files

DEFAULT	MDT_OFA_023LUP	FN:44	PRODUCER	20−May−2008 10:34

Company: 3D Oil **Well: Wardie−1**

Output DLIS Files

DEFAULT	MDT_OFA_033LUP	FN:54	PRODUCER	20−May−2008 15:18	1650.2 M	1609.2 M

DEFAULT	MDT_OFA_033LUP	FN:54	PRODUCER	20-May-2008 15:18	1650.2 M	1609.2 M

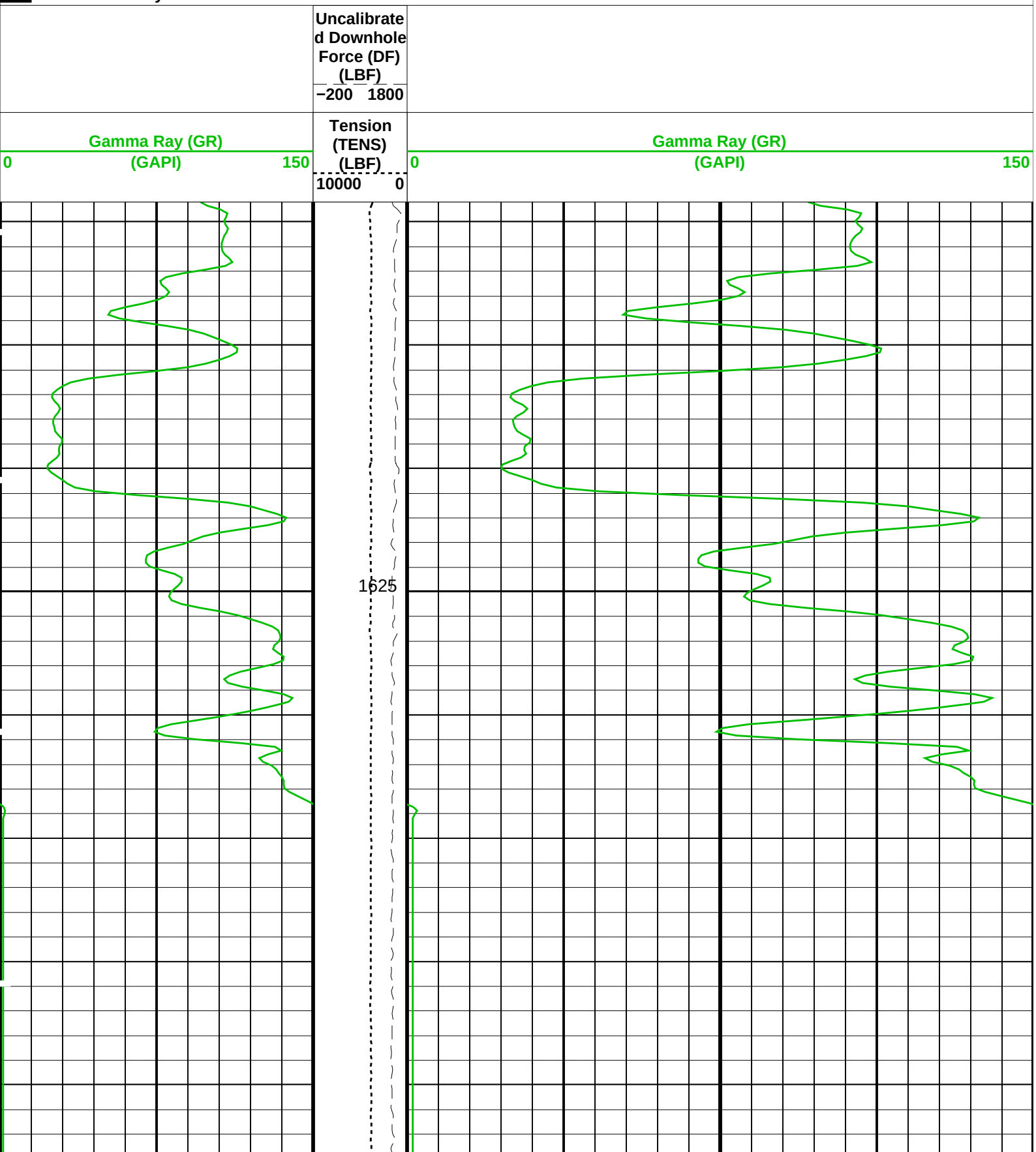
OP System Version: 15C0-309

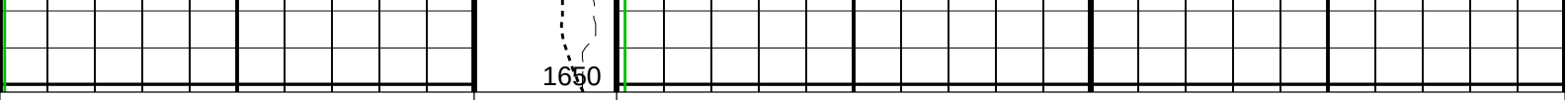
MCM

MRPQ_1	15C0-309	MRHY_1	15C0-309
MRPO_UD	15C0-309	AFA	15C0-309
MRMS_1	15C0-309	MRPC	15C0-309
SGT-L	15C0-309	TCC-BF	15C0-309

PIP SUMMARY

Time Mark Every 60 S





Gamma Ray (GR) (GAPI) 0 150	Tension (TENS) (LBF) 10000 0	Gamma Ray (GR) (GAPI) 0 150
	Uncalibrated Downhole Force (DF) (LBF) −200 1800	

PIP SUMMARY

Time Mark Every 60 S

Parameters

DLIS Name	Description	Value
	AFA: Advanced Fluid Analyzer	
PDCO	Probe Depth Correction Offset	0 M
	MRPC: Power Cartridge	
PDCO	Probe Depth Correction Offset	0 M

Format: Correlation **Vertical Scale: 1:200** **Graphics File Created: 20−May−2008 15:18**

OP System Version: 15C0−309

MCM

MRPQ_1	15C0−309	MRHY_1	15C0−309
MRPO_UD	15C0−309	AFA	15C0−309
MRMS_1	15C0−309	MRPC	15C0−309
SGT−L	15C0−309	TCC−BF	15C0−309

Output DLIS Files

DEFAULT	MDT_OFA_033LUP	FN:54	PRODUCER	20−May−2008 15:18		

Company: 3D Oil **Well: Wardie−1**

Output DLIS Files

DEFAULT	MDT_OFA_043LUP	FN:64	PRODUCER	20−May−2008 17:29	1673.2 M	1619.7 M

OP System Version: 15C0−309

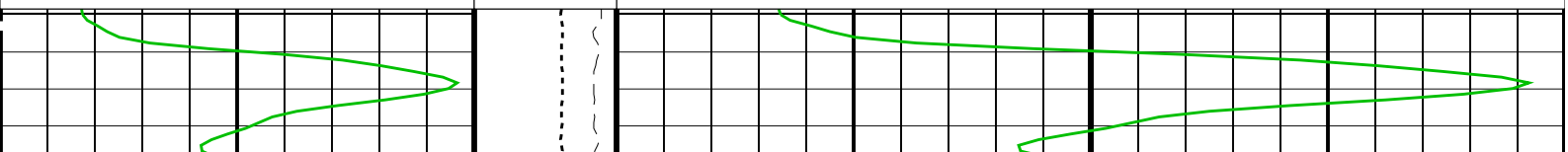
MCM

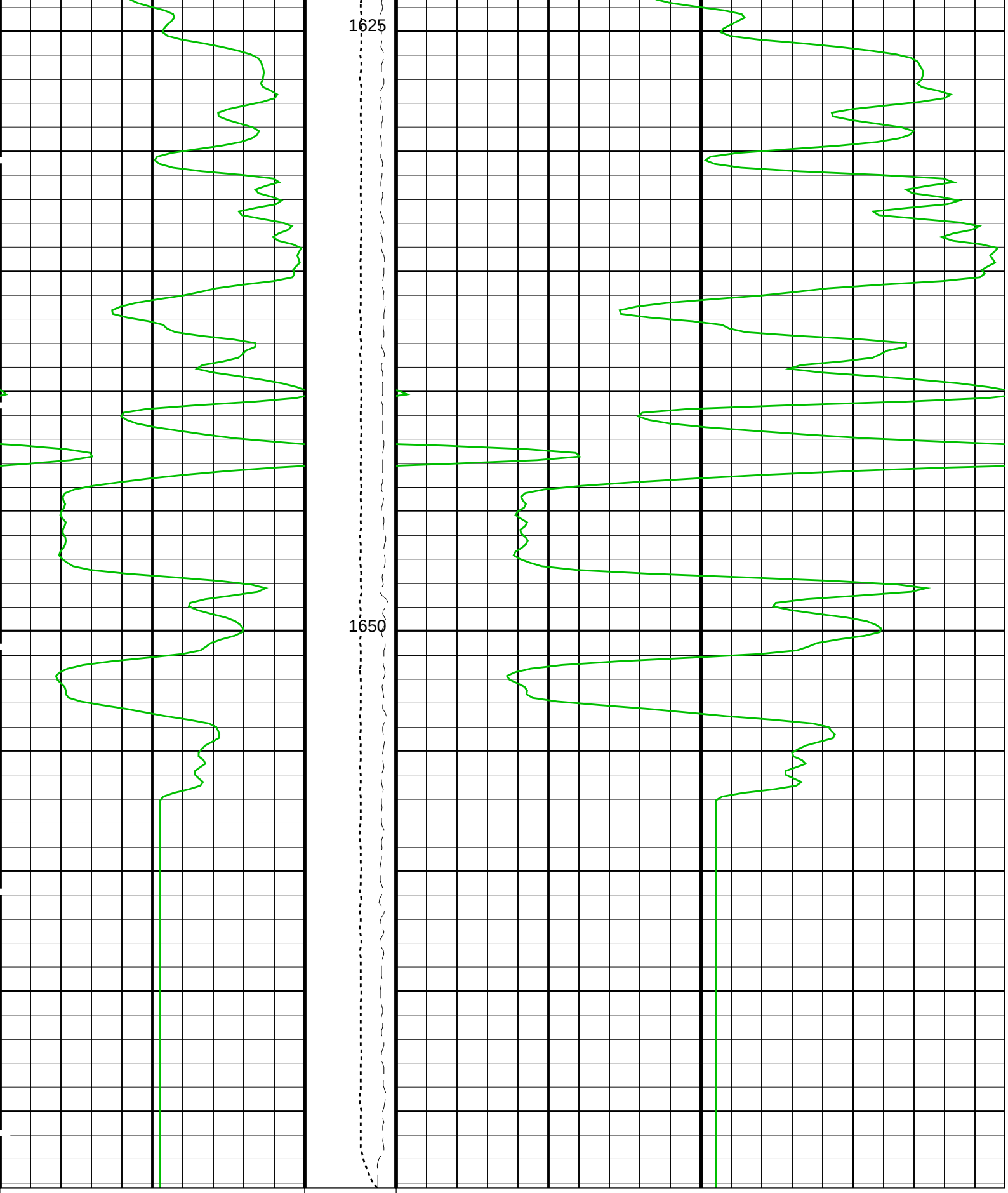
MRPQ_1	15C0−309	MRHY_1	15C0−309
MRPO_UD	15C0−309	AFA	15C0−309
MRMS_1	15C0−309	MRPC	15C0−309
SGT−L	15C0−309	TCC−BF	15C0−309

PIP SUMMARY

Time Mark Every 60 S

	Uncalibrated Downhole Force (DF) (LBF) −200 1800	
Gamma Ray (GR) (GAPI) 0 150	Tension (TENS) (LBF) 10000 0	Gamma Ray (GR) (GAPI) 0 150





Gamma Ray (GR)	Tension (TENS) (LBF)	Gamma Ray (GR)
0 (GAPI) 150	10000 0	0 (GAPI) 150
	Uncalibrated Downhole Force (DF) (LBF)	

(LBF)	
−200	1800

PIP SUMMARY

Time Mark Every 60 S

Parameters

DLIS Name	Description	Value	
	AFA: Advanced Fluid Analyzer		
PDCO	Probe Depth Correction Offset	0	M
	MRPC: Power Cartridge		
PDCO	Probe Depth Correction Offset	0	M

Format: Correlation **Vertical Scale: 1:200** **Graphics File Created: 20−May−2008 17:29**

OP System Version: 15C0−309

MCM

MRPQ_1	15C0−309	MRHY_1	15C0−309
MRPO_UD	15C0−309	AFA	15C0−309
MRMS_1	15C0−309	MRPC	15C0−309
SGT−L	15C0−309	TCC−BF	15C0−309

Output DLIS Files

DEFAULT **MDT_OFA_043LUP** **FN:64** **PRODUCER** **20−May−2008 17:29**

Schlumberger

Calibration

MAXIS Field Log

MASTER CALIBRATION SUMMARY: Quartz Gauge (Quick Probe Module 1)

Calibration Pressure Unit:	PSIA
Calibration Temperature Unit:	DEGC
Sensor Comment:	:
Sensor Serial Number:	4167
Sensor Calibration Date (DDMMYY):	200607
Pressure Model:	P=F(Fc,Fb)
Pressure Matrix:	66
Pressure CRC:	C7C0
Temperature Model:	T=F(Fb,Fc)
Temperature Matrix:	66
Temperature CRC:	DB57
Clock Comment:	:
Clock Serial Number:	492
Clock Calibration Date (DDMMYY):	040707
Clock Model:	Fclk=F(Fb'−Fc')
Clock Matrix:	16
Clock CRC:	ADC0
Fc Offset:	+.514400000000E+07 Hz
Fb Offset:	+.552800000000E+07 Hz

Fb Offset: +.558800000000E+07 Hz

R Offset: +.470000000000E+06 Hz

Pressure Coefficients

	Fb**0	Fb**1	Fb**2	Fb**3
Fc**0	+.759000232755E+0	+.224263005573E−0	−.196320567066E−0	−.796574135443E−1
Fc**1	−.107224695347E+0	−.129467349666E−0	−.978180496459E−1	−.174374598097E−1
Fc**2	+.111192981807E−0	+.448342904368E−1	+.858709445641E−1	+.574883481443E−1
Fc**3	+.460145587408E−1	−.114626730041E−1	−.819054046814E−1	+.275105668528E−2
Fc**4	+.178772578010E−1	+.410527426287E−1	+.145729169473E−2	−.117444805339E−2
Fc**5	−.746704221725E−2	+.239719608176E−2	+.128494656481E−2	+.452233121298E−3

	Fb**4	Fb**5
Fc**0	−.148076621784E−1	−.309178296706E−1
Fc**1	−.326677433537E−2	+.160370560822E−2
Fc**2	+.130902803720E−2	−.262968792444E−2
Fc**3	+.680532348295E−2	−.959838976971E−3
Fc**4	−.110045110030E−3	+.789384628156E−3
Fc**5	−.909916455089E−3	−.376238838482E−3

Temperature Coefficients

	Fc**0	Fc**1	Fc**2	Fc**3
Fb**0	+.114550322131E+0	−.348978635188E−0	+.636862825069E−0	+.452651744819E−1
Fb**1	−.601351727535E−0	+.177582017386E−0	+.154294055615E−1	−.124687202313E−1
Fb**2	−.317542882336E−0	+.354720150656E−1	+.739008177883E−1	−.662039424282E−2
Fb**3	−.270770249313E−1	−.284730991897E−1	−.245724934823E−2	+.518298771294E−2
Fb**4	−.345439066126E−1	+.164667039865E−2	−.392966509256E−2	+.166039876085E−2
Fb**5	−.124014535755E−2	+.645278280662E−2	+.125392906032E−2	−.357806354661E−3

	Fc**4	Fc**5
Fb**0	+.233018229174E−1	−.191259582622E−2
Fb**1	+.262757309219E−2	+.209933477387E−2
Fb**2	−.127896832180E−2	−.140186856219E−2
Fb**3	+.182591078187E−2	−.933368003600E−3
Fb**4	+.108042698014E−3	+.496111948164E−3
Fb**5	−.324039362817E−3	+.643198076331E−4

Clock Coefficients

F’b/F’c**0	+.517500080517E+0
F’b/F’c**1	+.361070646957E−0
F’b/F’c**2	+.807500655310E−0
F’b/F’c**3	−.644591216741E−1

F'b/F'c**4	−.511163139151E−1
F'b/F'c**5	+.476490872944E−2

Vert Strain Gauge (Quick Probe Module 1)

Serial Number:	**128849**
Range:	**10K**
Calibration Date:	**12/04/07**
Mean Quadratic Deviation:	**0.9759**
Offset:	**0.0000 PSI**
Calibration Pressure Unit:	**PSI**
Calibration Temperature Unit:	**DEGC**

	G	H	I	J
0	−3.626346e+002	1.005073e+000	−9.304764e−007	4.341833e−011
1	−3.038875e−001	−6.983775e−005	1.301790e−008	−5.847315e−013
2	2.115399e−003	8.117094e−007	−9.362194e−011	2.922926e−015
3	−2.258954e−006	−3.066218e−009	1.753665e−013	0.000000e+000

Calibration and Check Summary

Measurement	Nominal	Master	Before	After	Change	Limit	Units
Advanced Fluid Analyzer Wellsite Calibration − Spectrometer Channels							
Master: 29−Apr−2008 9:13 Before: 20−May−2008 9:19							
Dark Mode − 0	0.02500	0.02984	0.02994	N/A	N/A	N/A	V
Dark Mode − 1	0.02500	0.02967	0.02979	N/A	N/A	N/A	V
Dark Mode − 2	0.02500	0.02923	0.02935	N/A	N/A	N/A	V
Dark Mode − 3	0.02500	0.02947	0.02965	N/A	N/A	N/A	V
Dark Mode − 4	0.02500	0.02957	0.02969	N/A	N/A	N/A	V
Dark Mode − 5	0.02500	0.02934	0.02952	N/A	N/A	N/A	V
Dark Mode − 6	0.02500	0.02960	0.02966	N/A	N/A	N/A	V
Dark Mode − 7	0.02500	0.02945	0.02965	N/A	N/A	N/A	V
Dark Mode − 8	0.02500	0.02955	0.02970	N/A	N/A	N/A	V
Dark Mode − 9	0.02500	0.02910	0.02919	N/A	N/A	N/A	V
Source Mode − 0	1.700	1.094	1.079	N/A	N/A	N/A	V
Source Mode − 1	1.700	0.9662	0.9181	N/A	N/A	N/A	V
Source Mode − 2	1.700	1.125	1.079	N/A	N/A	N/A	V
Source Mode − 3	1.700	1.196	1.154	N/A	N/A	N/A	V
Source Mode − 4	1.700	0.6301	0.6123	N/A	N/A	N/A	V
Source Mode − 5	1.700	0.7845	0.7629	N/A	N/A	N/A	V
Source Mode − 6	1.700	1.077	1.054	N/A	N/A	N/A	V
Source Mode − 7	1.700	1.253	1.230	N/A	N/A	N/A	V
Source Mode − 8	1.700	1.582	1.557	N/A	N/A	N/A	V
Source Mode − 9	1.700	2.010	1.986	N/A	N/A	N/A	V
Advanced Fluid Analyzer Wellsite Calibration − Gas Detector Channels							
Master: 29−Apr−2008 9:13 Before: 20−May−2008 9:19							
Dark Mode − 0	0.02500	0.02973	0.02994	N/A	N/A	N/A	V
Dark Mode − 1	0.02500	0.02953	0.02965	N/A	N/A	N/A	V
Dark Mode − 2	0.02500	0.02947	0.02963	N/A	N/A	N/A	V
Dark Mode − 3	0.02500	0.02934	0.02942	N/A	N/A	N/A	V
Dark Mode − 4	0.02500	0.02935	0.02939	N/A	N/A	N/A	V
Dark Mode − 5	0.02500	0.02908	0.02928	N/A	N/A	N/A	V
Advanced Fluid Analyzer Wellsite Calibration − Gas Detector Source Intensity							
Master: 29−Apr−2008 9:13 Before: 20−May−2008 9:19							

Source Intensity Dark Mode	0.02600	0.02948	0.02963	N/A	N/A	N/A	V
Source Intensity Source Mode	0.2500	0.2787	0.2782	N/A	N/A	N/A	V

Advanced Fluid Analyzer Master Calibration − Spectrometer
Master: 29−Apr−2008 9:13

Dry Dark Mode − 0	0.02500	0.02984	−−	−−	−−	−−	V
Dry Dark Mode − 1	0.02500	0.02967	−−	−−	−−	−−	V
Dry Dark Mode − 2	0.02500	0.02923	−−	−−	−−	−−	V
Dry Dark Mode − 3	0.02500	0.02947	−−	−−	−−	−−	V
Dry Dark Mode − 4	0.02500	0.02957	−−	−−	−−	−−	V
Dry Dark Mode − 5	0.02500	0.02934	−−	−−	−−	−−	V
Dry Dark Mode − 6	0.02500	0.02960	−−	−−	−−	−−	V
Dry Dark Mode − 7	0.02500	0.02945	−−	−−	−−	−−	V
Dry Dark Mode − 8	0.02500	0.02955	−−	−−	−−	−−	V
Dry Dark Mode − 9	0.02500	0.02910	−−	−−	−−	−−	V
Dry Source Mode − 0	1.700	1.094	−−	−−	−−	−−	V
Dry Source Mode − 1	1.700	0.9662	−−	−−	−−	−−	V
Dry Source Mode − 2	1.700	1.125	−−	−−	−−	−−	V
Dry Source Mode − 3	1.700	1.196	−−	−−	−−	−−	V
Dry Source Mode − 4	1.700	0.6301	−−	−−	−−	−−	V
Dry Source Mode − 5	1.700	0.7845	−−	−−	−−	−−	V
Dry Source Mode − 6	1.700	1.077	−−	−−	−−	−−	V
Dry Source Mode − 7	1.700	1.253	−−	−−	−−	−−	V
Dry Source Mode − 8	1.700	1.582	−−	−−	−−	−−	V
Dry Source Mode − 9	1.700	2.010	−−	−−	−−	−−	V
Dry Measure Mode − 0	2.700	2.640	−−	−−	−−	−−	V
Dry Measure Mode − 1	2.700	2.241	−−	−−	−−	−−	V
Dry Measure Mode − 2	2.700	2.675	−−	−−	−−	−−	V
Dry Measure Mode − 3	2.700	2.703	−−	−−	−−	−−	V
Dry Measure Mode − 4	2.700	2.753	−−	−−	−−	−−	V
Dry Measure Mode − 5	2.700	2.730	−−	−−	−−	−−	V
Dry Measure Mode − 6	2.700	2.772	−−	−−	−−	−−	V
Dry Measure Mode − 7	2.700	2.740	−−	−−	−−	−−	V
Dry Measure Mode − 8	2.700	2.638	−−	−−	−−	−−	V
Dry Measure Mode − 9	2.700	2.609	−−	−−	−−	−−	V
Oil Dark Mode − 0	0.02500	0.02988	−−	−−	−−	−−	V
Oil Dark Mode − 1	0.02500	0.02969	−−	−−	−−	−−	V
Oil Dark Mode − 2	0.02500	0.02927	−−	−−	−−	−−	V
Oil Dark Mode − 3	0.02500	0.02952	−−	−−	−−	−−	V
Oil Dark Mode − 4	0.02500	0.02960	−−	−−	−−	−−	V
Oil Dark Mode − 5	0.02500	0.02936	−−	−−	−−	−−	V
Oil Dark Mode − 6	0.02500	0.02967	−−	−−	−−	−−	V
Oil Dark Mode − 7	0.02500	0.02951	−−	−−	−−	−−	V
Oil Dark Mode − 8	0.02500	0.02961	−−	−−	−−	−−	V
Oil Dark Mode − 9	0.02500	0.02914	−−	−−	−−	−−	V
Oil Source Mode − 0	1.700	1.090	−−	−−	−−	−−	V
Oil Source Mode − 1	1.700	0.9612	−−	−−	−−	−−	V
Oil Source Mode − 2	1.700	1.121	−−	−−	−−	−−	V
Oil Source Mode − 3	1.700	1.192	−−	−−	−−	−−	V
Oil Source Mode − 4	1.700	0.6251	−−	−−	−−	−−	V
Oil Source Mode − 5	1.700	0.7793	−−	−−	−−	−−	V
Oil Source Mode − 6	1.700	1.071	−−	−−	−−	−−	V
Oil Source Mode − 7	1.700	1.248	−−	−−	−−	−−	V
Oil Source Mode − 8	1.700	1.575	−−	−−	−−	−−	V
Oil Source Mode − 9	1.700	2.007	−−	−−	−−	−−	V
Oil Measure Mode − 0	1.000	2.485	−−	−−	−−	−−	V
Oil Measure Mode − 1	1.000	2.486	−−	−−	−−	−−	V
Oil Measure Mode − 2	1.000	3.150	−−	−−	−−	−−	V
Oil Measure Mode − 3	1.000	3.190	−−	−−	−−	−−	V
Oil Measure Mode − 4	1.000	3.246	−−	−−	−−	−−	V
Oil Measure Mode − 5	1.000	3.140	−−	−−	−−	−−	V
Oil Measure Mode − 6	1.000	2.802	−−	−−	−−	−−	V
Oil Measure Mode − 7	1.000	3.063	−−	−−	−−	−−	V
Oil Measure Mode − 8	1.000	0.4603	−−	−−	−−	−−	V
Oil Measure Mode − 9	1.000	1.952	−−	−−	−−	−−	V
Water Dark Mode − 0	0.02500	0.02986	−−	−−	−−	−−	V
Water Dark Mode − 1	0.02500	0.02970	−−	−−	−−	−−	V
Water Dark Mode − 2	0.02500	0.02927	−−	−−	−−	−−	V
Water Dark Mode − 3	0.02500	0.02949	−−	−−	−−	−−	V
Water Dark Mode − 4	0.02500	0.02957	−−	−−	−−	−−	V
Water Dark Mode − 5	0.02500	0.02938	−−	−−	−−	−−	V
Water Dark Mode − 6	0.02500	0.02963	−−	−−	−−	−−	V
Water Dark Mode − 7	0.02500	0.02951	−−	−−	−−	−−	V
Water Dark Mode − 8	0.02500	0.02958	−−	−−	−−	−−	V
Water Dark Mode − 9	0.02500	0.02914	−−	−−	−−	−−	V
Water Source Mode − 0	1.700	1.088	−−	−−	−−	−−	V
Water Source Mode − 1	1.700	0.9628	−−	−−	−−	−−	V
Water Source Mode − 2	1.700	1.121	−−	−−	−−	−−	V
Water Source Mode − 3	1.700	1.193	−−	−−	−−	−−	V
Water Source Mode − 4	1.700	0.6257	−−	−−	−−	−−	V
Water Source Mode − 5	1.700	0.7780	−−	−−	−−	−−	V

Water Source Mode − 6	1.700	1.067	−−	−−	−−	−−	V
Water Source Mode − 7	1.700	1.244	−−	−−	−−	−−	V
Water Source Mode − 8	1.700	1.576	−−	−−	−−	−−	V
Water Source Mode − 9	1.700	2.006	−−	−−	−−	−−	V
Water Measure Mode − 0	1.000	0.8535	−−	−−	−−	−−	V
Water Measure Mode − 1	1.000	2.547	−−	−−	−−	−−	V
Water Measure Mode − 2	1.000	3.049	−−	−−	−−	−−	V
Water Measure Mode − 3	1.000	3.081	−−	−−	−−	−−	V
Water Measure Mode − 4	1.000	3.046	−−	−−	−−	−−	V
Water Measure Mode − 5	1.000	2.376	−−	−−	−−	−−	V
Water Measure Mode − 6	1.000	0.03516	−−	−−	−−	−−	V
Water Measure Mode − 7	1.000	0.6276	−−	−−	−−	−−	V
Water Measure Mode − 8	1.000	0.7929	−−	−−	−−	−−	V
Water Measure Mode − 9	1.000	0.02955	−−	−−	−−	−−	V

Advanced Fluid Analyzer Master Calibration − Gas Detector
Master: 29−Apr−2008 9:13

Dry Dark Mode − 0	0.02500	0.02973	−−	−−	−−	−−	V
Dry Dark Mode − 1	0.02500	0.02953	−−	−−	−−	−−	V
Dry Dark Mode − 2	0.02500	0.02947	−−	−−	−−	−−	V
Dry Dark Mode − 3	0.02500	0.02934	−−	−−	−−	−−	V
Dry Dark Mode − 4	0.02500	0.02935	−−	−−	−−	−−	V
Dry Dark Mode − 5	0.02500	0.02908	−−	−−	−−	−−	V
Dry Measure Mode − 0	0	0.08634	−−	−−	−−	−−	V
Dry Measure Mode − 1	0	0.1814	−−	−−	−−	−−	V
Dry Measure Mode − 2	0	0.3657	−−	−−	−−	−−	V
Dry Measure Mode − 3	0	0.3723	−−	−−	−−	−−	V
Dry Measure Mode − 4	0	0.3787	−−	−−	−−	−−	V
Dry Measure Mode − 5	0	0.3315	−−	−−	−−	−−	V
Dry Normalized − 0	0	0.1651	−−	−−	−−	−−	V
Dry Normalized − 1	0	0.4430	−−	−−	−−	−−	V
Dry Normalized − 2	0	0.9804	−−	−−	−−	−−	V
Dry Normalized − 3	0	1.000	−−	−−	−−	−−	V
Dry Normalized − 4	0	1.019	−−	−−	−−	−−	V
Dry Normalized − 5	0	0.8819	−−	−−	−−	−−	V
Water Dark Mode − 0	0.02500	0.02978	−−	−−	−−	−−	V
Water Dark Mode − 1	0.02500	0.02961	−−	−−	−−	−−	V
Water Dark Mode − 2	0.02500	0.02949	−−	−−	−−	−−	V
Water Dark Mode − 3	0.02500	0.02940	−−	−−	−−	−−	V
Water Dark Mode − 4	0.02500	0.02937	−−	−−	−−	−−	V
Water Dark Mode − 5	0.02500	0.02914	−−	−−	−−	−−	V
Water Measure Mode − 0	1.000	0.07891	−−	−−	−−	−−	V
Water Measure Mode − 1	1.000	0.05887	−−	−−	−−	−−	V
Water Measure Mode − 2	1.000	0.04290	−−	−−	−−	−−	V
Water Measure Mode − 3	1.000	0.04078	−−	−−	−−	−−	V
Water Measure Mode − 4	1.000	0.05188	−−	−−	−−	−−	V
Water Measure Mode − 5	1.000	0.08549	−−	−−	−−	−−	V

Advanced Fluid Analyzer Master Calibration − Gas Detector Source Intensity
Master: 29−Apr−2008 9:13

Source Intensity Dark Mode	0.02600	0.02948	−−	−−	−−	−−	V
Source Intensity Source Mode	0.2500	0.2787	−−	−−	−−	−−	V

Advanced Fluid Analyzer Master Calibration − Absorption Coefficients
Master: 29−Apr−2008 9:18

Oil Absorption Coefficie − 0	0	0.02651	−−	−−	−−	−−	V
Oil Absorption Coefficie − 1	0	−0.04560	−−	−−	−−	−−	V
Oil Absorption Coefficie − 2	0	−0.07165	−−	−−	−−	−−	V
Oil Absorption Coefficie − 3	0	−0.07270	−−	−−	−−	−−	V
Oil Absorption Coefficie − 4	0	−0.07221	−−	−−	−−	−−	V
Oil Absorption Coefficie − 5	0	−0.06144	−−	−−	−−	−−	V
Oil Absorption Coefficie − 6	0	−0.004719	−−	−−	−−	−−	V
Oil Absorption Coefficie − 7	0	−0.04883	−−	−−	−−	−−	V
Oil Absorption Coefficie − 8	0	0.7822	−−	−−	−−	−−	V
Oil Absorption Coefficie − 9	0	0.1276	−−	−−	−−	−−	V
Water Absorption Coeffic − 0	0	0.5009	−−	−−	−−	−−	V
Water Absorption Coeffic − 1	0	−0.05622	−−	−−	−−	−−	V
Water Absorption Coeffic − 2	0	−0.05747	−−	−−	−−	−−	V
Water Absorption Coeffic − 3	0	−0.05745	−−	−−	−−	−−	V
Water Absorption Coeffic − 4	0	−0.04436	−−	−−	−−	−−	V
Water Absorption Coeffic − 5	0	0.06109	−−	−−	−−	−−	V
Water Absorption Coeffic − 6	0	2.695	−−	−−	−−	−−	V
Water Absorption Coeffic − 7	0	0.6563	−−	−−	−−	−−	V
Water Absorption Coeffic − 8	0	0.5336	−−	−−	−−	−−	V
Water Absorption Coeffic − 9	0	3.801	−−	−−	−−	−−	V

Scintillation Gamma−Ray − L Wellsite Calibration − Detector Calibration
Before: 18−May−2008 9:41

Gamma Ray Background	30.00	N/A	52.73	N/A	N/A	N/A	GAPI
Gamma Ray (Jig − Bkg)	166.6	N/A	166.6	N/A	N/A	15.15	GAPI
Gamma Ray (Calibrated)	165.0	N/A	165.0	N/A	N/A	15.00	GAPI

Advanced Fluid Analyzer / Equipment Identification

Primary Equipment:
Advanced Fluid Analyzer MRFA − FA 8552

Auxiliary Equipment:

Advanced Fluid Analyzer Wellsite Calibration

Spectrometer Channels

Idx	Phase	Dark Mode V	Value	Idx	Phase	Source Mode V	Value
0	Master		0.02984	0	Master		1.094
	Before		0.02994		Before		1.079
1	Master		0.02967	1	Master		0.9662
	Before		0.02979		Before		0.9181
2	Master		0.02923	2	Master		1.125
	Before		0.02935		Before		1.079
3	Master		0.02947	3	Master		1.196
	Before		0.02965		Before		1.154
4	Master		0.02957	4	Master		0.6301
	Before		0.02969		Before		0.6123
5	Master		0.02934	5	Master		0.7845
	Before		0.02952		Before		0.7629
6	Master		0.02960	6	Master		1.077
	Before		**0.02966**		**Before**		**1.054**
7	Master		0.02945	7	Master		1.253
	Before		0.02965		Before		1.230
8	Master		0.02955	8	Master		1.582
	Before		0.02970		Before		1.557
9	Master		0.02910	9	Master		2.010
	Before		0.02919		Before		1.986
		0.01700 (Minimum) 0.02500 (Nominal) 0.03300 (Maximum)				0.2000 (Minimum) 1.700 (Nominal) 3.200 (Maximum)	

Master: 29−Apr−2008 9:13 Before: 20−May−2008 9:19

Advanced Fluid Analyzer Wellsite Calibration

Gas Detector Channels

Idx	Phase	Dark Mode V	Value
0	Master		0.02973
	Before		0.02994
1	Master		0.02953
	Before		0.02965
2	Master		0.02947
	Before		0.02963
3	Master		0.02934
	Before		0.02942
4	Master		0.02935
	Before		0.02939
5	Master		0.02908

5	Before		0.02928
	0.01700 (Minimum)	0.02500 (Nominal)	0.03300 (Maximum)

Master: 29−Apr−2008 9:13

Before: 20−May−2008 9:19

Advanced Fluid Analyzer Wellsite Calibration

Gas Detector Source Intensity

Phase	Source Intensity Dark Mode V	Value	Phase	Source Intensity Source Mode V	Value
Master		0.02948	Master		0.2787
Before		0.02963	Before		0.2782
	0.01700 (Minimum) 0.02600 (Nominal) 0.03500 (Maximum)			0.1900 (Minimum) 0.2500 (Nominal) 0.3100 (Maximum)	

Master: 29−Apr−2008 9:13 Before: 20−May−2008 9:19

Advanced Fluid Analyzer Master Calibration

Spectrometer

Idx	Dry Dark Mode V	Value	Idx	Dry Source Mode V	Value	Idx	Dry Measure Mode V	Value
0		0.02984	0		1.094	0		2.640
1		0.02967	1		0.9662	1		2.241
2		0.02923	2		1.125	2		2.675
3		0.02947	3		1.196	3		2.703
4		0.02957	4		0.6301	4		2.753
5		0.02934	5		0.7845	5		2.730
6		0.02960	6		1.077	6		2.772
7		0.02945	7		1.253	7		2.740
8		0.02955	8		1.582	8		2.638
9		0.02910	9		2.010	9		2.609
	0.01700 (Minimum) 0.02500 (Nominal) 0.03300 (Maximum)			0.2000 (Minimum) 1.700 (Nominal) 3.200 (Maximum)			1.350 (Minimum) 2.700 (Nominal) 3.200 (Maximum)	

Idx	Oil Dark Mode V	Value	Idx	Oil Source Mode V	Value	Idx	Oil Measure Mode V	Value
0		0.02988	0		1.090	0		2.485
1		0.02969	1		0.9612	1		2.486
2		0.02927	2		1.121	2		3.150
3		0.02952	3		1.192	3		3.190
4		0.02960	4		0.6251	4		3.246
5		0.02936	5		0.7793	5		3.140
6		0.02967	6		1.071	6		2.802
7		0.02951	7		1.248	7		3.063
8		0.02961	8		1.575	8		0.4603
9		0.02914	9		2.007	9		1.952
	0.01700 (Minimum) 0.02500 (Nominal) 0.03300 (Maximum)			0.2000 (Minimum) 1.700 (Nominal) 3.200 (Maximum)			0 (Minimum) 1.000 (Nominal) 4.500 (Maximum)	

Idx	Water Dark Mode V	Value	Idx	Water Source Mode V	Value	Idx	Water Measure Mode V	Value
0		0.02986	0		1.088	0		0.8535
1		0.02970	1		0.9628	1		2.547
2		0.02927	2		1.121	2		3.049
3		0.02949	3		1.193	3		3.081
4		0.02957	4		0.6257	4		3.046
5		0.02938	5		0.7780	5		2.376
6		0.02963	6		1.067	6		0.03516
7		0.02951	7		1.244	7		0.6276

8		0.02958	8		1.576	8		0.7929
9		0.02914	9		2.006	9		0.02955
0.01700 (Minimum)	0.02500 (Nominal)	0.03300 (Maximum)	0.2000 (Minimum)	1.700 (Nominal)	3.200 (Maximum)	0 (Minimum)	1.000 (Nominal)	4.500 (Maximum)

Master: 29−Apr−2008 9:13

Advanced Fluid Analyzer Master Calibration

Gas Detector

Idx	Dry Dark Mode V	Value
0		0.02973
1		0.02953
2		0.02947
3		0.02934
4		0.02935
5		0.02908
0.01700 (Minimum)	0.02500 (Nominal)	0.03300 (Maximum)

Idx	Water Dark Mode V	Value
0		0.02978
1		0.02961
2		0.02949
3		0.02940
4		0.02937
5		0.02914
0.01700 (Minimum)	0.02500 (Nominal)	0.03300 (Maximum)

Idx	Dry Measure Mode V	Value
0		0.08634
0 (Minimum)	0.5000 (Nominal)	1.000 (Maximum)
1		0.1814
0 (Minimum)	0.5000 (Nominal)	1.000 (Maximum)
2		0.3657
0 (Minimum)	0.5000 (Nominal)	1.000 (Maximum)
3		0.3723
0.3000 (Minimum)	0.5000 (Nominal)	1.000 (Maximum)
4		0.3787
0 (Minimum)	0.5000 (Nominal)	1.000 (Maximum)
5		0.3315
0 (Minimum)	0.5000 (Nominal)	1.000 (Maximum)

Idx	Water Measure Mode V	Value
0		0.07891
1		0.05887
2		0.04290
3		0.04078
4		0.05188
5		0.08549
0 (Minimum)	1.000 (Nominal)	4.500 (Maximum)

Idx	Dry Normalized V	Value
0		0.1651
0.1000 (Minimum)	0.2400 (Nominal)	0.5000 (Maximum)
1		0.4430
0.2000 (Minimum)	0.4600 (Nominal)	0.8000 (Maximum)
2		0.9804
0.7000 (Minimum)	1.010 (Nominal)	1.300 (Maximum)
3		1.000
1.000 (Minimum)	1.000 (Nominal)	1.000 (Maximum)
4		1.019
0.6000 (Minimum)	0.9200 (Nominal)	1.200 (Maximum)
5		0.8819
0.4000 (Minimum)	0.7500 (Nominal)	1.000 (Maximum)

Master: 29−Apr−2008 9:13

Advanced Fluid Analyzer Master Calibration

Gas Detector Source Intensity

Source Intensity Dark Mode V	Value	Source Intensity Source Mode V	Value
	0.02948		0.2787
0.01700 (Minimum) 0.02600 (Nominal) 0.03500 (Maximum)		0.1900 (Minimum) 0.2500 (Nominal) 0.3100 (Maximum)	

Master: 29−Apr−2008 9:13

Advanced Fluid Analyzer Master Calibration

Absorption Coefficients

Idx	Oil Absorption Coefficients V	Value
0		0.02651
0 (Minimum)	0.05500 (Nominal)	0.1100 (Maximum)
1		−0.04560
−0.1000 (Minimum)	−0.06000 (Nominal)	−0.02000 (Maximum)
2		−0.07165
−0.1000 (Minimum)	−0.06500 (Nominal)	−0.03000 (Maximum)
3		−0.07270
−0.1000 (Minimum)	−0.06000 (Nominal)	−0.02000 (Maximum)
4		−0.07221

Idx	Water Absorption Coefficients V	Value
0		0.5009
0.4300 (Minimum)	0.4800 (Nominal)	0.5300 (Maximum)
1		−0.05622
−0.09000 (Minimum)	−0.05000 (Nominal)	−0.010000 (Maximum)
2		−0.05747
−0.09000 (Minimum)	−0.05500 (Nominal)	−0.02000 (Maximum)
3		−0.05745
−0.09000 (Minimum)	−0.05500 (Nominal)	−0.02000 (Maximum)
4		−0.04436

−0.1000 (Minimum)	−0.06000 (Nominal)	−0.02000 (Maximum)		−0.07000 (Minimum)	−0.03500 (Nominal)	0 (Maximum)	
5			−0.06144	5			0.06109
−0.08000 (Minimum)	−0.04500 (Nominal)	−0.010000 (Maximum)		0.02000 (Minimum)	0.06000 (Nominal)	0.1000 (Maximum)	
6			−0.004719	6			2.695
−0.03000 (Minimum)	−0.005000 (Nominal)	0.02000 (Maximum)		2.520 (Minimum)	2.660 (Nominal)	2.800 (Maximum)	
7			−0.04883	7			0.6563
−0.08000 (Minimum)	−0.04000 (Nominal)	0 (Maximum)		0.5500 (Minimum)	0.6200 (Nominal)	0.6900 (Maximum)	
8			0.7822	8			0.5336
0.6600 (Minimum)	0.7500 (Nominal)	0.8400 (Maximum)		0.4700 (Minimum)	0.5150 (Nominal)	0.5600 (Maximum)	
9			0.1276	9			3.801
0.08000 (Minimum)	0.1300 (Nominal)	0.1800 (Maximum)		2.500 (Minimum)	3.850 (Nominal)	50.00 (Maximum)	

Master: 29−Apr−2008 9:18

Scintillation Gamma−Ray − L / Equipment Identification

Primary Equipment:		
Scintillation Gamma Cartridge	SGC − SA	735
Scintillation Gamma Detector	SGD − TAA	
Auxiliary Equipment:		
Scintillation Gamma Housing	SGH − K	403
Gamma Source Radioactive	GSR − U/Y	

Scintillation Gamma−Ray − L Wellsite Calibration

Detector Calibration

Phase	Gamma Ray Background GAPI			Value
Before				52.73
	0 (Minimum)	30.00 (Nominal)	120.0 (Maximum)	

Phase	Gamma Ray (Jig − Bkg) GAPI			Value
Before				166.6
	151.5 (Minimum)	166.6 (Nominal)	181.8 (Maximum)	

Phase	Gamma Ray (Calibrated) GAPI			Value
Before				165.0
	150.0 (Minimum)	165.0 (Nominal)	180.0 (Maximum)	

Before: 18−May−2008 9:41

Schlumberger

Inclination Data

MAXIS Field Log

WFTI INCLINOMETRY LIST

Meas. Tie Depth : 703.8 M True Vert. Tie Depth: 667.9 M

Measured Depth	Deviation	Azimuth	True Vertical Depth

Depth			Depth
(M)	(DEG)	(DEG)	(M)
703.8	34.90	240.07	667.9
722.5	34.35	239.86	683.3
802.8	32.02	241.09	750.5
831.5	30.76	239.33	775.0
861.5	31.64	238.19	800.6
891.2	31.39	236.51	826.0
920.2	31.58	236.01	850.7
949.8	31.70	236.73	875.8
979.8	31.37	237.60	901.4
1009.2	31.56	240.47	926.5
1039.0	31.64	239.79	951.9
1066.6	31.64	241.83	975.4
1096.5	32.01	242.11	1000.8
1125.9	32.34	242.75	1025.7
1155.7	32.17	242.53	1050.9
1184.6	32.35	243.98	1075.3
1214.8	32.18	244.06	1100.9
1244.9	30.73	243.07	1126.5
1274.2	29.50	243.74	1151.9
1303.8	28.32	243.43	1177.8
1333.2	26.97	243.84	1203.9
1363.3	25.76	244.51	1230.8
1392.3	24.64	245.10	1257.1
1421.7	23.41	245.94	1283.9
1451.5	21.93	245.34	1311.4
1481.2	19.28	245.06	1339.2
1511.2	16.74	243.33	1367.7
1540.8	14.49	240.57	1396.3
1570.2	12.40	236.98	1424.8
1599.8	10.35	236.26	1453.8
1630.2	9.46	236.73	1483.7
1659.9	8.81	235.87	1513.1
1689.4	8.19	235.45	1542.3
1718.8	7.67	235.27	1571.4
1745.7	7.36	234.18	1598.0
1766.0	7.36	234.18	1618.2

Company: **3D Oil Limited**

Schlumberger

Well: **Wardie−1**
Field: **Exploration**
Rig: **West Triton**
Country: **Australia**

MDT−GR
SAMPLING
Suite 1 Run 2