

Run

SANDIA TECHNOLOGIES, LLC

NYSTA TANDEM LOT 1

WILDCAT

ROCKLAND
State: **NEW YORK**

[illegible]

Logging Date				
Run Number				
Depth Driller				
Schlumberger Depth				
Bottom Log Interval				
Top Log Interval				
Casing Driller Size @ Depth		@		
Casing Schlumberger				
Bit Size				
Type Fluid In Hole				
Density	Viscosity			
Fluid Loss	PH			
Source Of Sample				
RM @ Measured Temperature		@		
RMF @ Measured Temperature		@		
RMC @ Measured Temperature		@		
Source RMF	RMC			
RM @ MRT	RMF @ MRT	@	@	
Maximum Recorded Temperatures				
Circulation Stopped	Time			
Logger On Bottom	Time			
Unit Number	Location			
Recorded By				
Witnessed By				

DEPTH SUMMARY LISTING

Date Created: 20-OCT-2011 1:39:32

Depth System Equipment

Depth Measuring Device	Tension Device	Logging Cable
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Depth Control Parameters	
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Log Sequence:	Subsequent Log In the Well
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Depth Control Remarks	
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1. IDW USED AS PRIMARY DEPTH CONTROL

2. Z CHART USED AS SECONDARY DEPTH CONTROL
- 3.

DISCLAIMER

OTHER SERVICES1 OS1: RIUN 2A: PEX-AIT	OTHER SERVICES2 OS1:
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OS1:	RUN 2A: FLEX-AM	OS1:	
OS2:	RUN 2B: FMI-MSIP	OS2:	
OS3:	RUN 2C: GMR-EGG-UNGS	OS3:	

OS3:	RUN 2C: CMR-ECS-HNGS	OS3:
OS4:	RUN 2D: USIT-DSLT	OS4:

OS5: RUN 2E: VSP SEISMIC	OS5:
REMARKS: RUN NUMBER 1	REMARKS: RUN NUMBER 2

Max deltaP of mandrels (drawdown) = 4800 psi	
Max deltaP of mandrels (injection) = 5000 psi	

inflate volume = 3.1 gal = 11735 cc	
interval volume = 4.2 gal = 15900 cc	

Interval Volume = 4.2 gal = 15500 cc					
distance from zero to top seal point = +24.1 inch					
distance from zero to bottom seal point = -14.5 inch					
RIG: UNION RIG 48					
CREW: PAUL REYNOLDS, BRYAN AUSTIN, NAT DORSAY					
RUN 1			RUN 2		
SERVICE ORDER #: PROGRAM VERSION: FLUID LEVEL:			SERVICE ORDER #: PROGRAM VERSION: FLUID LEVEL:		
BMNA-00055 19C0-187 0 ft					
LOGGED INTERVAL	START	STOP	LOGGED INTERVAL	START	STOP

EQUIPMENT DESCRIPTION					
RUN 1			RUN 2		
SURFACE EQUIPMENT					
MRPP-AA 485 GSR-U/Y WITM (CTS)-A					
DOWNHOLE EQUIPMENT					
LEH-QT LEH-QT		56.0			
TCC-BF ECH-KC 396 TCC-BF 6355		53.1			
	TelStatus	___ 38.5			
SGT-L SGH-K 2508 SGC-SA 1174 SGD-TAA		50.1			
	Gamma Ray	___ 37.6			
MRPC MRPC-BB 361		44.6			
	PC	___ 28.0			
MRSC_02 1_GAL-BC 58		39.6			
	SC2	___ 21.9			
MRPO_UD MRPOUD-DU-BA MRPOUD-CA 245		33.5			
	POUD	___ 11.3			

WFTI INCLINOMETRY LIST			
Meas. Tie Depth :		1500.0 FT	True Vert. Tie Depth: 1500.0 FT
Measured Depth (FT)	Deviation (DEG)	Azimuth (DEG)	True Vertical Depth (FT)
1500.0	0.69	211.73	1500.0
1550.0	1.96	236.03	1550.0
1600.0	0.41	29.72	1600.0
1650.0	1.63	294.22	1650.0
1700.0	1.63	287.68	1699.9
1750.0	1.50	283.17	1749.9
1800.0	1.39	271.39	1799.9
1850.0	1.15	269.72	1849.9
1900.0	1.03	260.61	1899.9
1950.0	0.92	262.25	1949.9
2000.0	0.78	259.26	1999.9
2050.0	0.53	291.94	2049.9
2100.0	1.67	147.88	2099.9

2100.0	1.87	147.89	2099.9
2150.0	2.22	100.53	2149.8
2200.0	0.07	58.05	2199.8
2250.0	2.26	109.89	2249.8
2300.0	1.85	171.53	2299.8
2350.0	1.07	103.71	2349.8
2400.0	2.36	131.29	2399.7
2450.0	3.24	136.61	2449.7
2500.0	3.04	148.26	2499.6
2550.0	3.94	168.10	2549.5
2600.0	5.72	151.39	2599.3
2650.0	6.41	147.38	2649.0
2700.0	7.42	145.72	2698.7
2750.0	8.77	144.39	2748.2
2800.0	9.67	144.08	2797.5
2850.0	10.64	144.24	2846.8
2900.0	11.01	136.95	2895.9
2950.0	10.65	136.91	2945.0
3000.0	12.41	146.64	2994.0
3050.0	13.01	140.61	3042.7
3100.0	13.64	140.35	3091.4
3150.0	14.50	140.34	3139.9
3200.0	15.44	140.97	3188.2
3250.0	16.46	142.03	3236.3
3300.0	15.76	146.14	3284.3
3350.0	17.71	151.33	3332.2
3400.0	18.83	151.76	3379.7
3450.0	19.75	152.01	3426.9
3500.0	20.88	152.10	3473.7
3550.0	22.09	152.44	3520.3
3600.0	23.37	152.88	3566.4
3650.0	24.41	153.13	3612.1
3700.0	24.25	153.63	3657.7
3750.0	21.30	151.90	3703.8
3800.0	19.73	151.49	3750.6
3850.0	19.80	149.01	3797.6
3900.0	17.52	147.63	3845.0
3950.0	15.25	145.99	3893.0
4000.0	13.98	140.17	3941.3
4050.0	12.23	134.37	3990.0
4100.0	10.50	131.30	4039.1
4150.0	8.56	127.81	4088.4
4200.0	7.19	125.68	4137.9
4250.0	6.31	121.22	4187.6
4300.0	5.10	111.01	4237.3
4350.0	3.38	104.71	4287.2
4400.0	1.27	78.32	4337.1
4450.0	1.26	344.71	4387.1
4500.0	1.46	235.81	4437.1
4550.0	1.17	38.10	4487.1
4600.0	1.51	144.31	4537.1
4650.0	0.75	258.71	4587.1
4700.0	1.17	37.62	4637.0
4750.0	1.79	144.17	4687.0
4800.0	1.63	69.01	4737.0
4850.0	2.17	102.55	4787.0
4900.0	2.47	135.64	4836.9
4950.0	2.33	159.21	4886.9
5000.0	1.55	91.30	4936.9
5050.0	3.07	131.34	4986.8
5100.0	3.62	110.89	5036.7
5150.0	3.26	80.01	5086.7

5150.0	3.28	80.01	5088.7
5200.0	1.26	100.22	5136.6
5250.0	3.52	105.80	5186.6
5300.0	2.94	145.65	5236.5
5350.0	4.16	140.10	5286.4
5400.0	4.42	145.59	5336.2
5450.0	4.38	155.67	5386.1
5500.0	4.05	156.79	5436.0
5550.0	4.05	160.40	5485.8
5600.0	3.79	159.95	5535.7
5650.0	4.12	164.51	5585.6
5700.0	4.63	158.37	5635.5
5750.0	3.97	152.96	5685.3
5800.0	2.95	145.68	5735.2
5850.0	1.79	141.01	5785.2
5900.0	1.48	102.53	5835.2
5950.0	0.96	68.49	5885.1
6000.0	1.21	65.85	5935.1
6050.0	2.63	40.26	5985.1
6100.0	2.76	50.41	6035.1
6150.0	3.17	52.83	6085.0
6200.0	3.64	56.54	6134.9
6250.0	4.22	57.07	6184.8
6300.0	4.19	60.33	6234.6
6350.0	3.80	61.93	6284.5
6400.0	3.88	54.35	6334.4
6450.0	3.97	49.09	6384.3
6500.0	3.88	23.70	6434.2
6550.0	2.10	23.84	6484.1
6600.0	3.94	38.39	6534.0
6650.0	4.32	17.58	6583.9
6700.0	2.54	1.61	6633.8
6750.0	2.09	19.91	6683.8
6800.0	4.22	34.07	6733.7
6850.0	3.99	8.07	6783.6
6900.0	3.73	2.70	6833.5

Schlumberger

Mini Frac Test 3510.5 ft

MAXIS Field Log

File 176

Depth, FT: 3510.53

Unrecognizable – Standard packer

15-Oct-2011

SANDIA TECHNOLOGIES, LLC

Mud Pressure before test, PSIA:

1677.46

WILDCAT

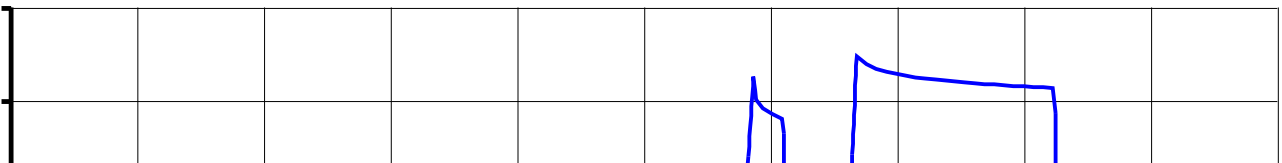
Mud Pressure after test, PSIA:

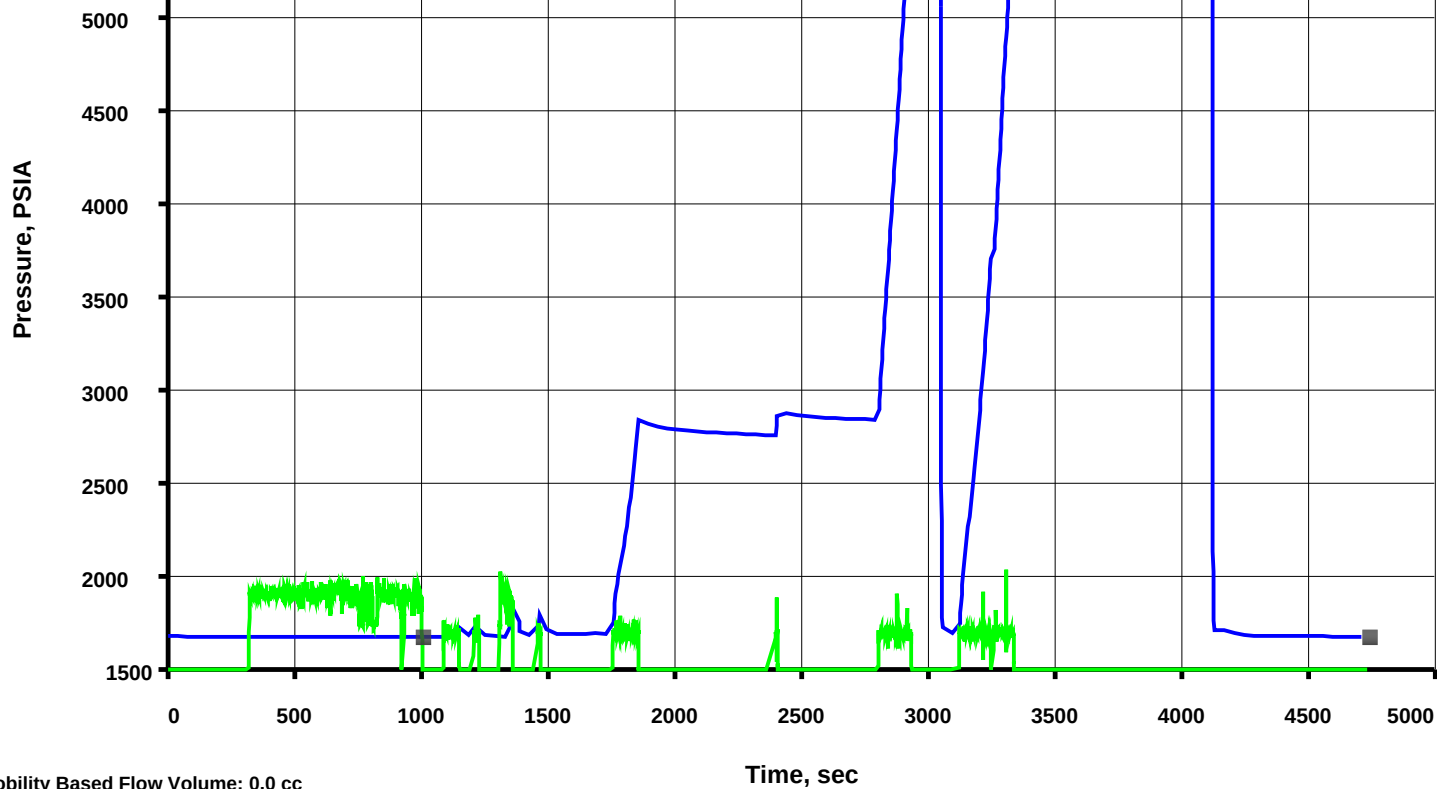
1678.82

NYSTA TANDEM LOT 1

6000

5500





Company: SANDIA TECHNOLOGIES, LLC Well: NYSTA TANDEM LOT 1

Output DLIS Files

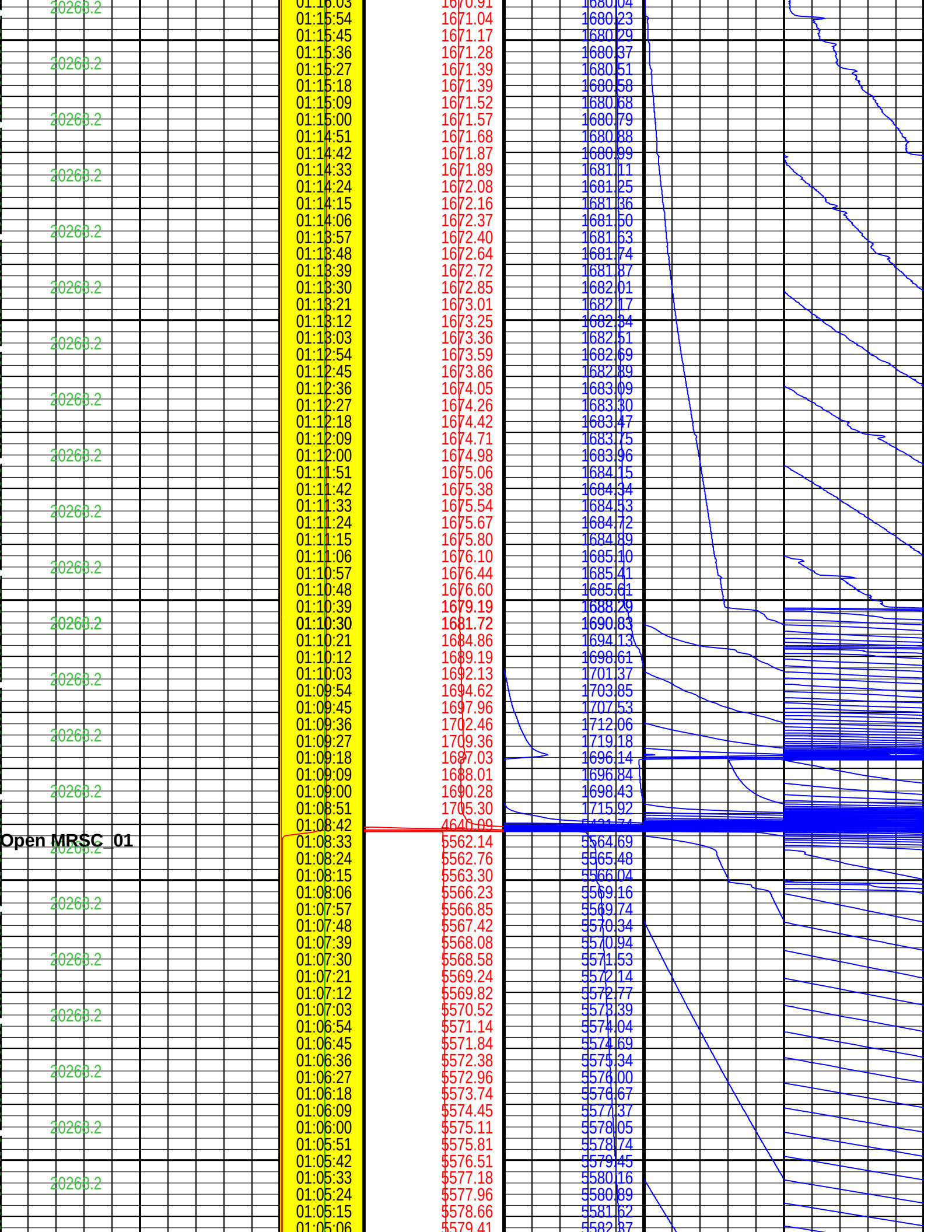
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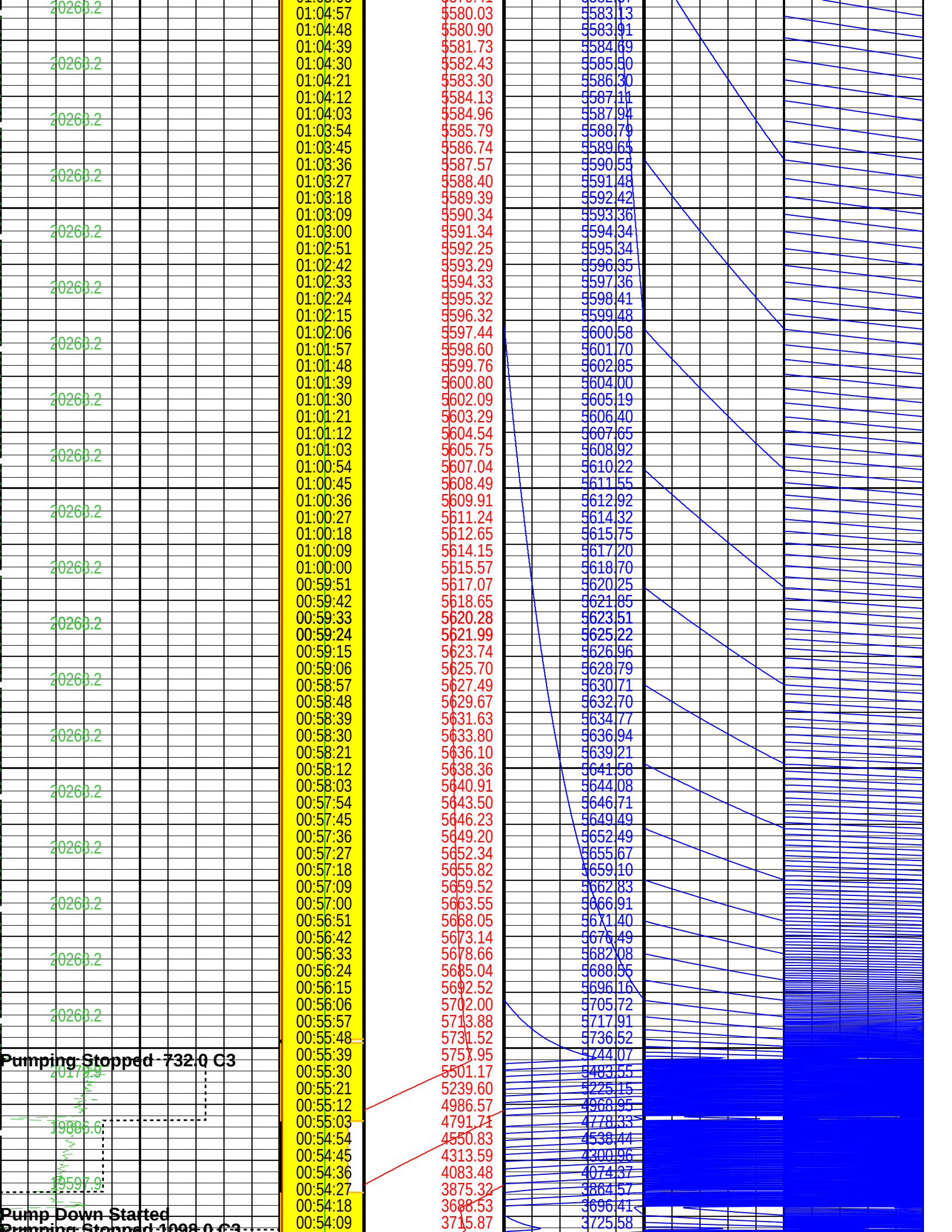
Elapsed Time (s)	Event Summary
4117.5	Open Sample Chamber Module 1 (1 Gallon, Through-Wire, H2S), sample number = 8
3339.6	Pumping Stopped 732.0 C3 Dual Up-down Pumpout Module (MRPOUD)
3257.1	Pump Down Started Dual Up-down Pumpout Module (MRPOUD)
3248.7	Pumping Stopped 1098.0 C3 Dual Up-down Pumpout Module (MRPOUD)
3121.5	Pump Down Started Dual Up-down Pumpout Module (MRPOUD)
3098.7	Seal Sample Chamber Module 1 (1 Gallon, Through-Wire, H2S)
3046.2	Open Sample Chamber Module 1 (1 Gallon, Through-Wire, H2S), sample number = 6
2935.5	Pumping Stopped 1098.0 C3 Dual Up-down Pumpout Module (MRPOUD)
2802.0	Pump Down Started Dual Up-down Pumpout Module (MRPOUD)
2406.9	Pumping Stopped 0.0 C3 Dual Up-down Pumpout Module (MRPOUD)
2397.0	Pump Down Started Dual Up-down Pumpout Module (MRPOUD)
1859.1	Pumping Stopped 732.0 C3 Dual Up-down Pumpout Module (MRPOUD)
1754.7	Pump Down Started Dual Up-down Pumpout Module (MRPOUD)
1503.6	Seal Sample Chamber Module 1 (1 Gallon, Through-Wire, H2S)
1490.1	Open Sample Chamber Module 1 (1 Gallon, Through-Wire, H2S), sample number = 6
1472.4	Pumping Stopped 366.0 C3 Dual Up-down Pumpout Module (MRPOUD)
1456.2	Pump Down Started Dual Up-down Pumpout Module (MRPOUD)
1415.4	Seal Sample Chamber Module 1 (1 Gallon, Through-Wire, H2S)
1381.8	Open Sample Chamber Module 1 (1 Gallon, Through-Wire, H2S), sample number = 5
1364.7	Pumping Stopped 1098.0 C3 Dual Up-down Pumpout Module (MRPOUD)
1304.1	Pump Down Started Dual Up-down Pumpout Module (MRPOUD)

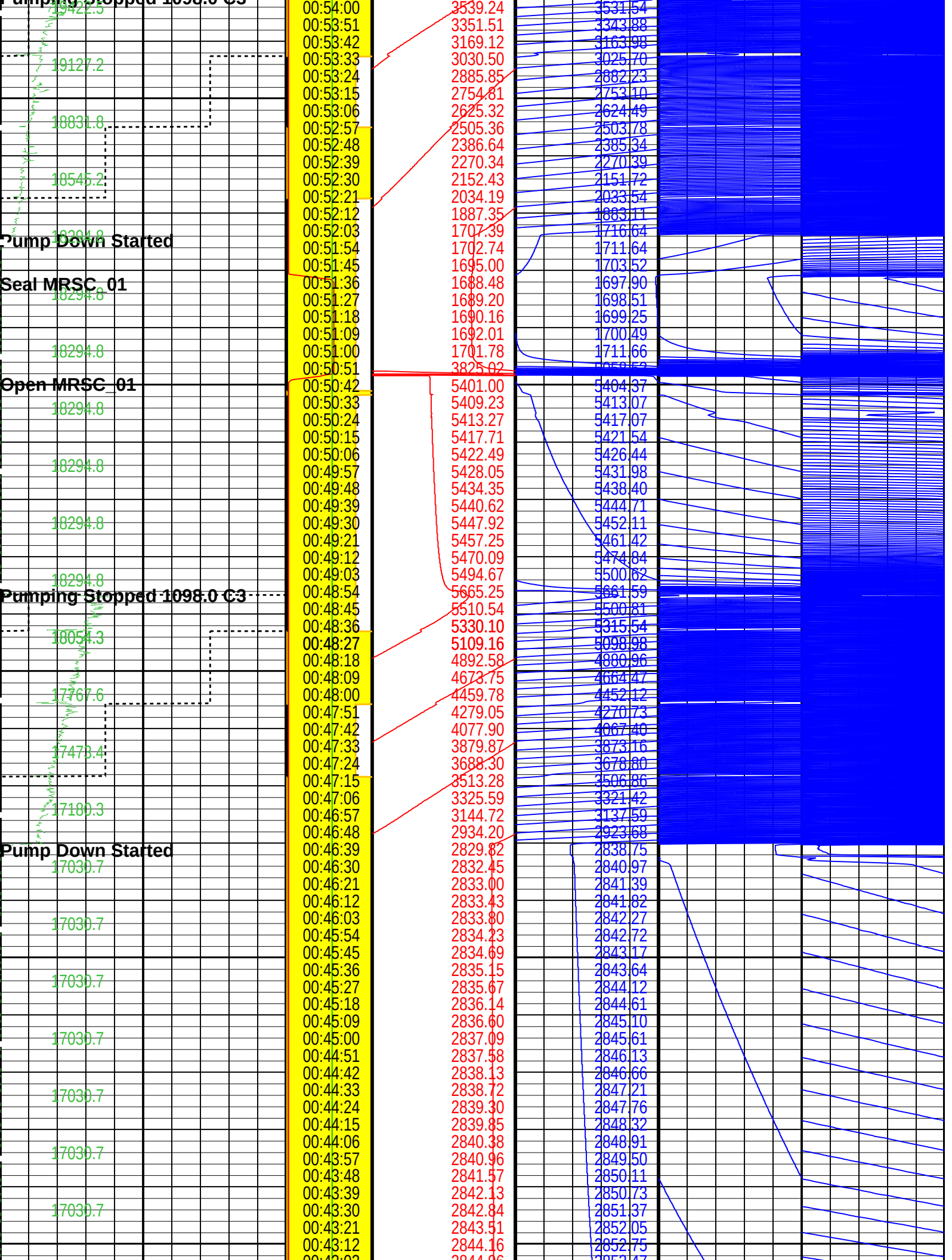
1291.5	Seal Sample Chamber Module 1 (1 Gallon, Through-Wire, H2S)
1284.0	Open Sample Chamber Module 1 (1 Gallon, Through-Wire, H2S), sample number = 4
1257.6	Seal Sample Chamber Module 1 (1 Gallon, Through-Wire, H2S)
1247.4	Open Sample Chamber Module 1 (1 Gallon, Through-Wire, H2S), sample number = 3
1228.8	Pumping Stopped 0.0 C3 Dual Up-down Pumpout Module (MRPOUD)
1205.4	Pump Down Started Dual Up-down Pumpout Module (MRPOUD)
1179.3	Seal Sample Chamber Module 1 (1 Gallon, Through-Wire, H2S)
1169.1	Open Sample Chamber Module 1 (1 Gallon, Through-Wire, H2S), sample number = 2
1151.4	Pumping Stopped 732.0 C3 Dual Up-down Pumpout Module (MRPOUD)
1086.9	Pump Down Started Dual Up-down Pumpout Module (MRPOUD)
1053.6	Seal Sample Chamber Module 1 (1 Gallon, Through-Wire, H2S)
1043.4	Open Sample Chamber Module 1 (1 Gallon, Through-Wire, H2S), sample number = 1
1006.5	Pumping Stopped 1098.0 C3 Dual Up-down Pumpout Module (MRPOUD)
929.1	Pump Down Started Dual Up-down Pumpout Module (MRPOUD)
924.9	Pumping Stopped 12078.0 C3 Dual Up-down Pumpout Module (MRPOUD)
319.2	Pump Down Started Dual Up-down Pumpout Module (MRPOUD)

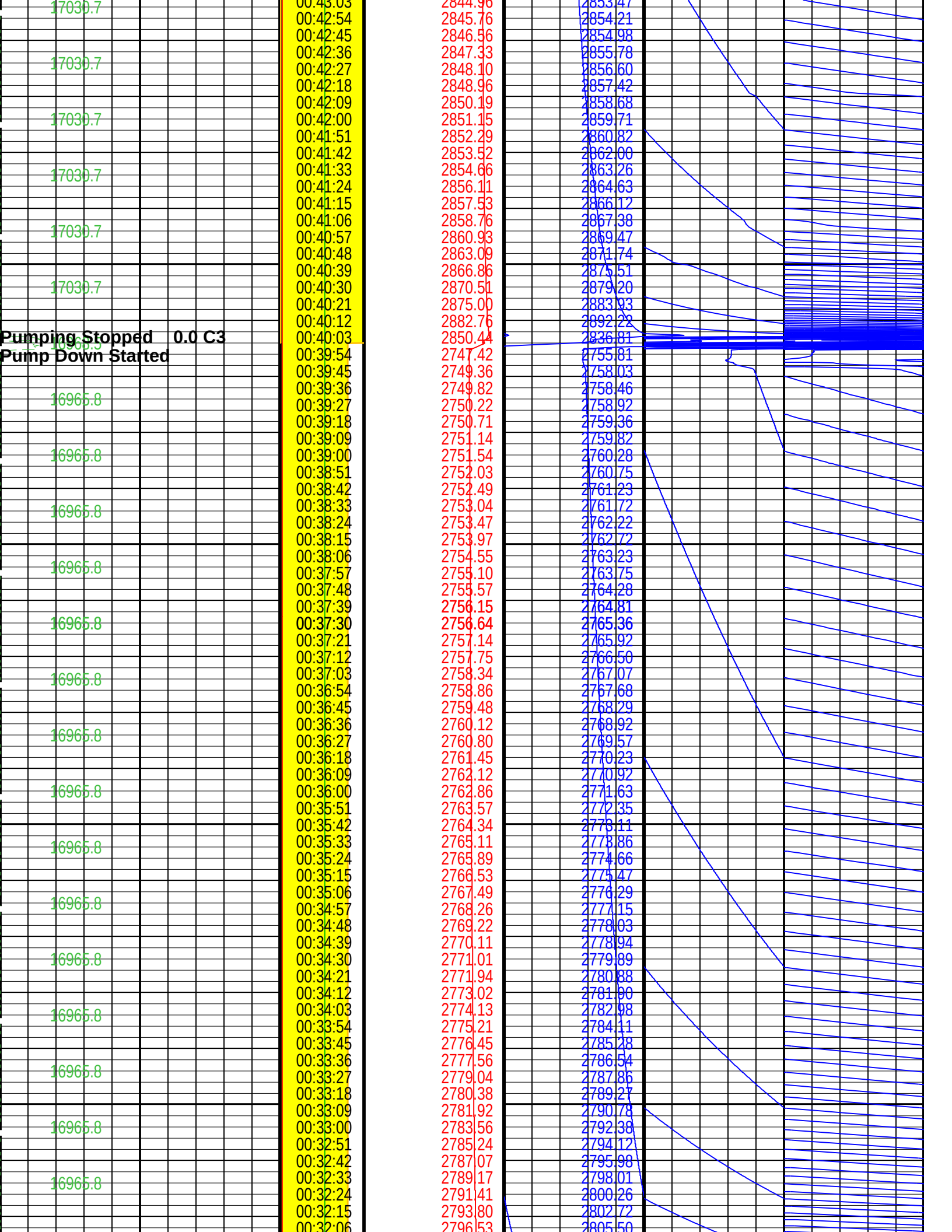
PIP SUMMARY

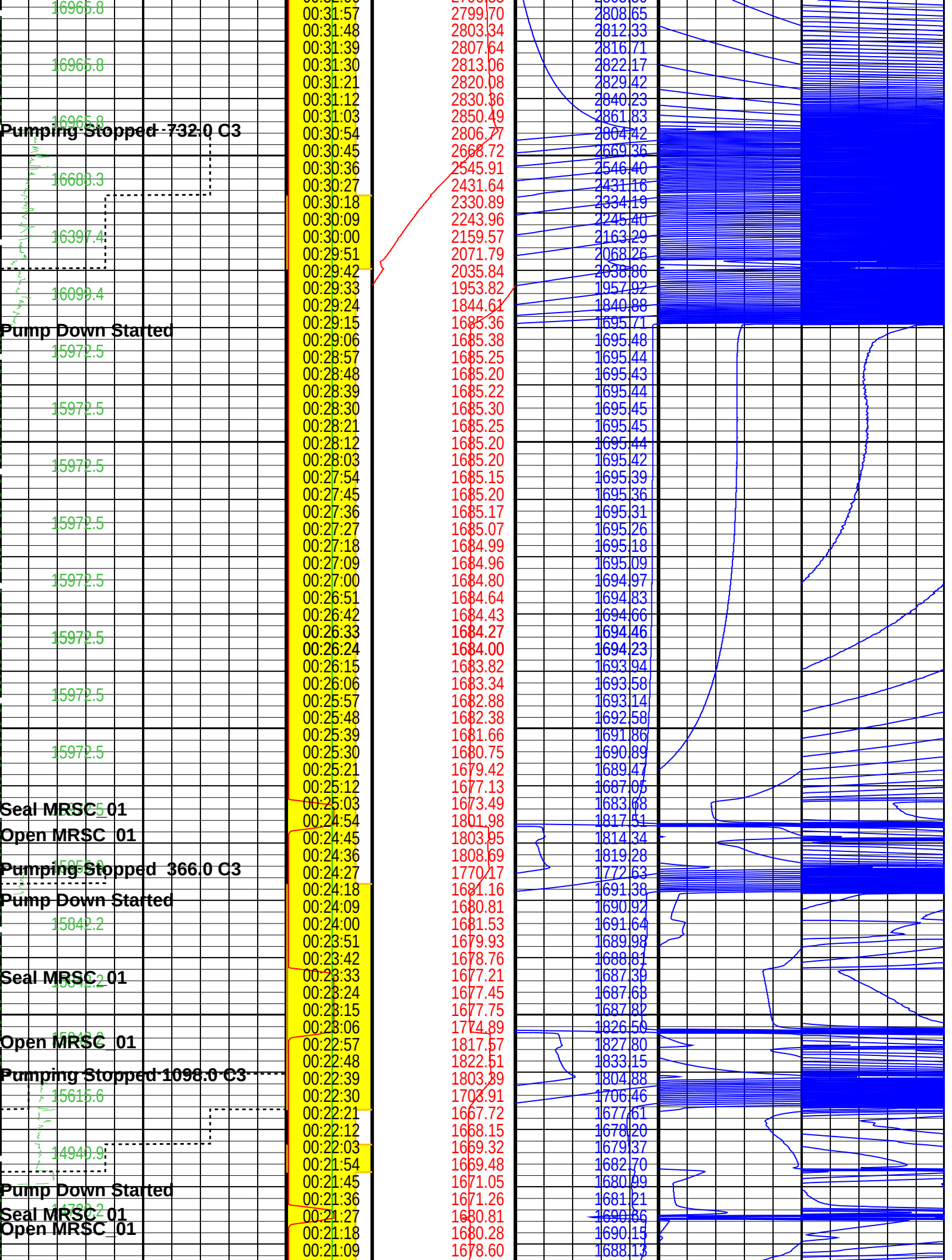
Time Mark Every 60 S

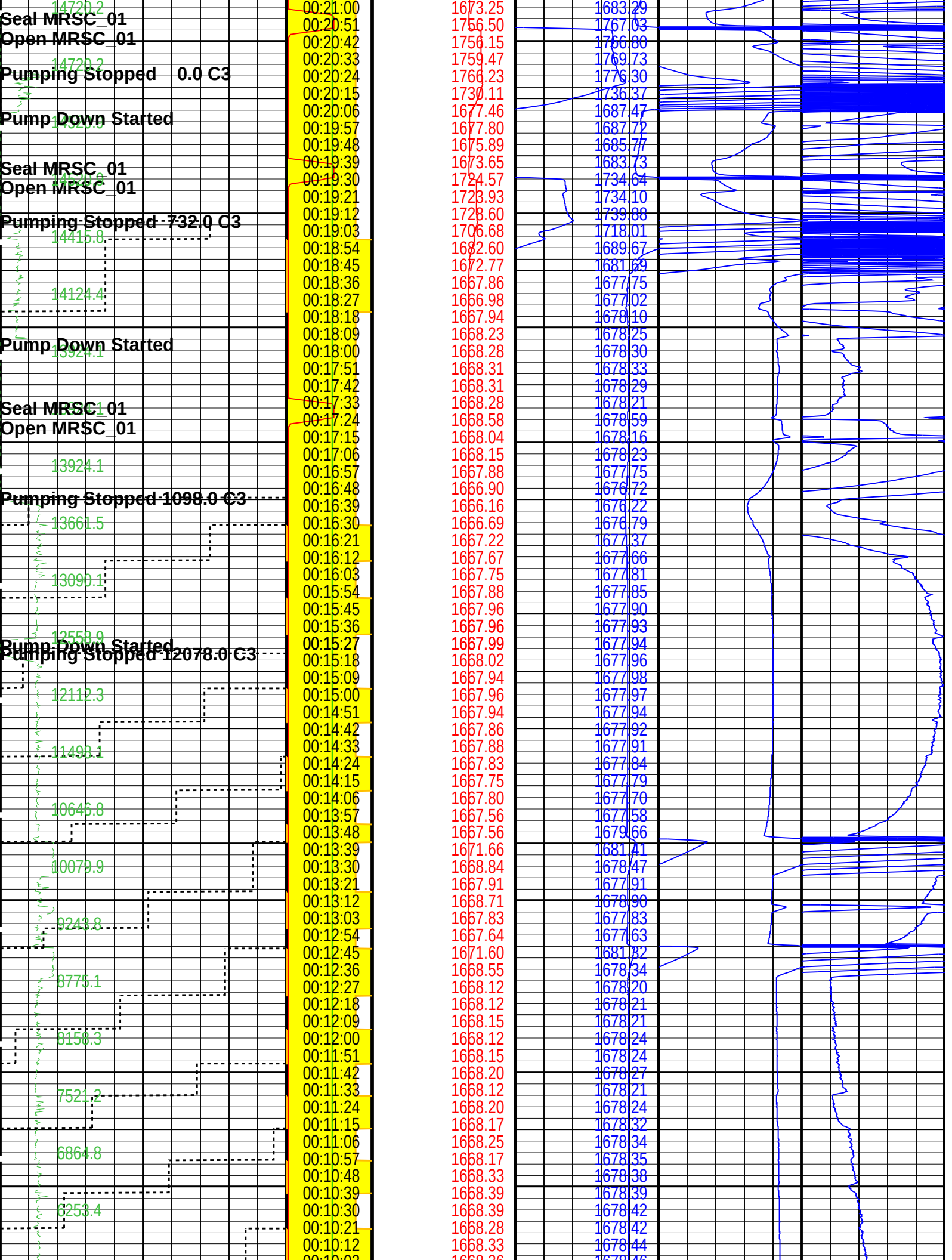


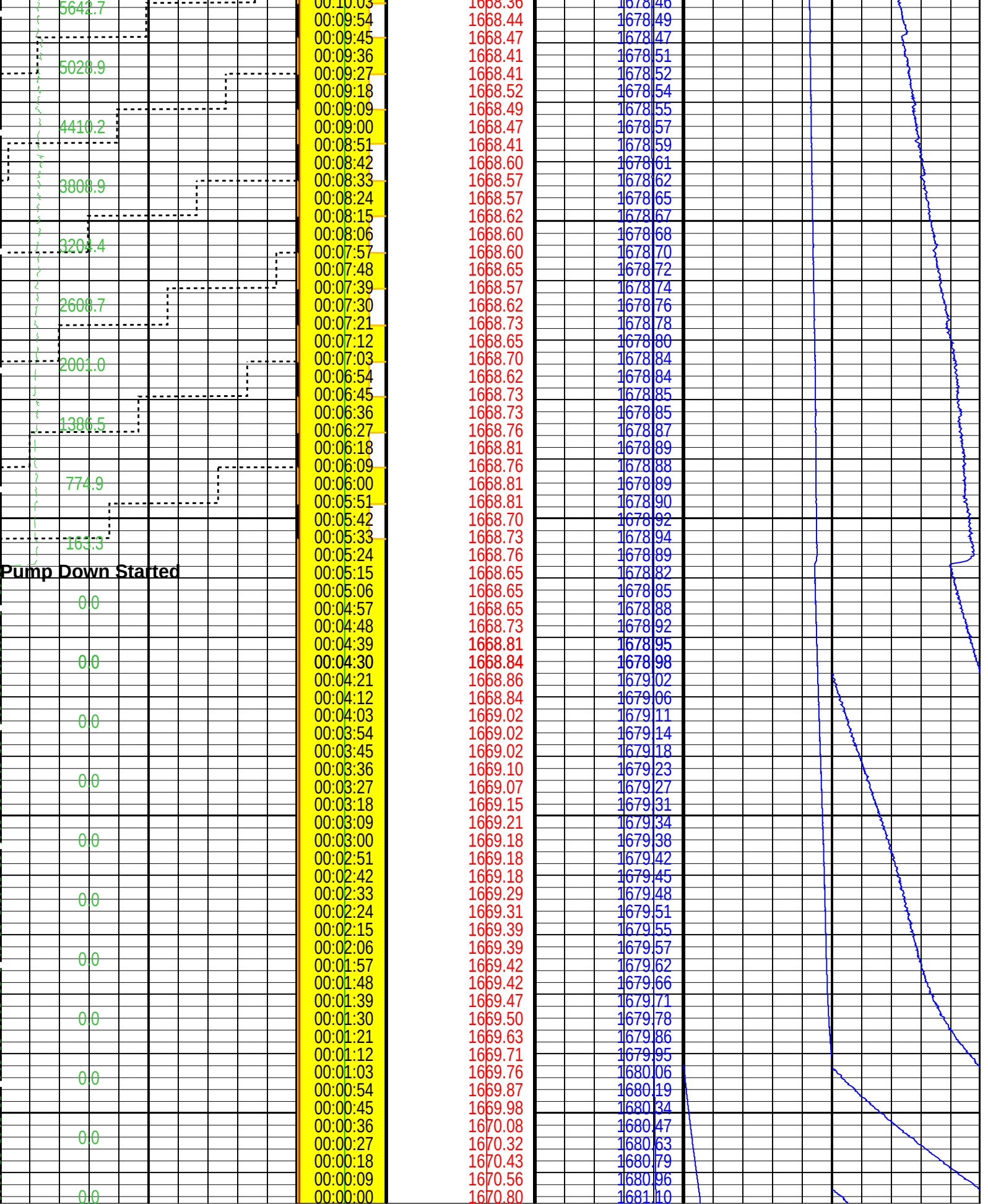












PO Volume (POUDCV) (-----)	Elapsed Time (ETIM) (S)	MRPA Strain Gauge Pressure (PASG)		MRPA Quartz Gauge Pressure (PAQP)		MRPA Quartz Gauge Pressure (PAQP)		MRPA Quartz Gauge Pressure (PAQP)	
		0	1000 (PSIG)	0	100 (PSIA)	0	10 (PSIA)	0	1 (PSIA)
	MRPOLD								

MRPOUD Motor Current (POUDMC) 0 (AMPS) 20	MRPOUD Solenoid 3 Status (POUDS3) 5 (----) 0	MRPA Strain Gauge Pressure (PASG) (PSIG)	MRPA Quartz Gauge Pressure (PAQP) (PSIA)
MRPOUD Hydraulic Pump Output Volume (POUDPV) 0 (C3) 1000	MRSC 1 Valve Position (VP1) (----) -5 250		
	MRSC 2 Valve Position (VP2) (----) -5 250		

PIP SUMMARY

Time Mark Every 60 S

Parameters

DLIS Name	Description	Value
MRPA: Dual Packer Module (MRPA)		
PDCO	Probe Depth Correction Offset	0 FT
QGCA	Quartz Gauge Pressure Correction Applied	BOTH
QGDA	Quartz Gauge Deviation Angle	0 DEG
QGFD	Quartz Gauge Flow Line Density	1 G/C3
MRSC_01: Sample Chamber Module (MRSC) 01		
PDCO	Probe Depth Correction Offset	0 FT
MRPO_UD: Dual Up-down Pumpout Module (MRPOUD)		
PDCO	Probe Depth Correction Offset	0 FT
POUDAVHCC	MRPOUD Apply Volume Half Cycle Correction	NO
POUDAVOPC	MRPOUD Apply Volume Over Pressure Correction	NO
POUDAVSC	MRPOUD Apply Volume Stroke Correction	YES
POUDDISPVOL	MRPOUD Displacement Unit Stroke Volume	366
POUDFIXDISP	MRPOUD Fixed Displacement Pump Displacement Per Revolution	0.9756
POUDHCPRVL	MRPOUD Half-cycle Correction Pressure Level	450 PSIG
POUDOPCLVL	MRPOUD Over Pressure Correction Level	3800 PSIG
POUDPMPTYP	MRPOUD Hydraulic Pump Type	CONSTANT_DISPLACEMENT
MRSC_02: Sample Chamber Module (MRSC) 02		
PDCO	Probe Depth Correction Offset	0 FT
MRPC: Power Cartridge		
PDCO	Probe Depth Correction Offset	0 FT

Format: MRPA_STATION_LOG_QG Vertical Scale: 1" per 60S Graphics File Created: 20-Oct-2011 10:10

OP System Version: 19C0-187

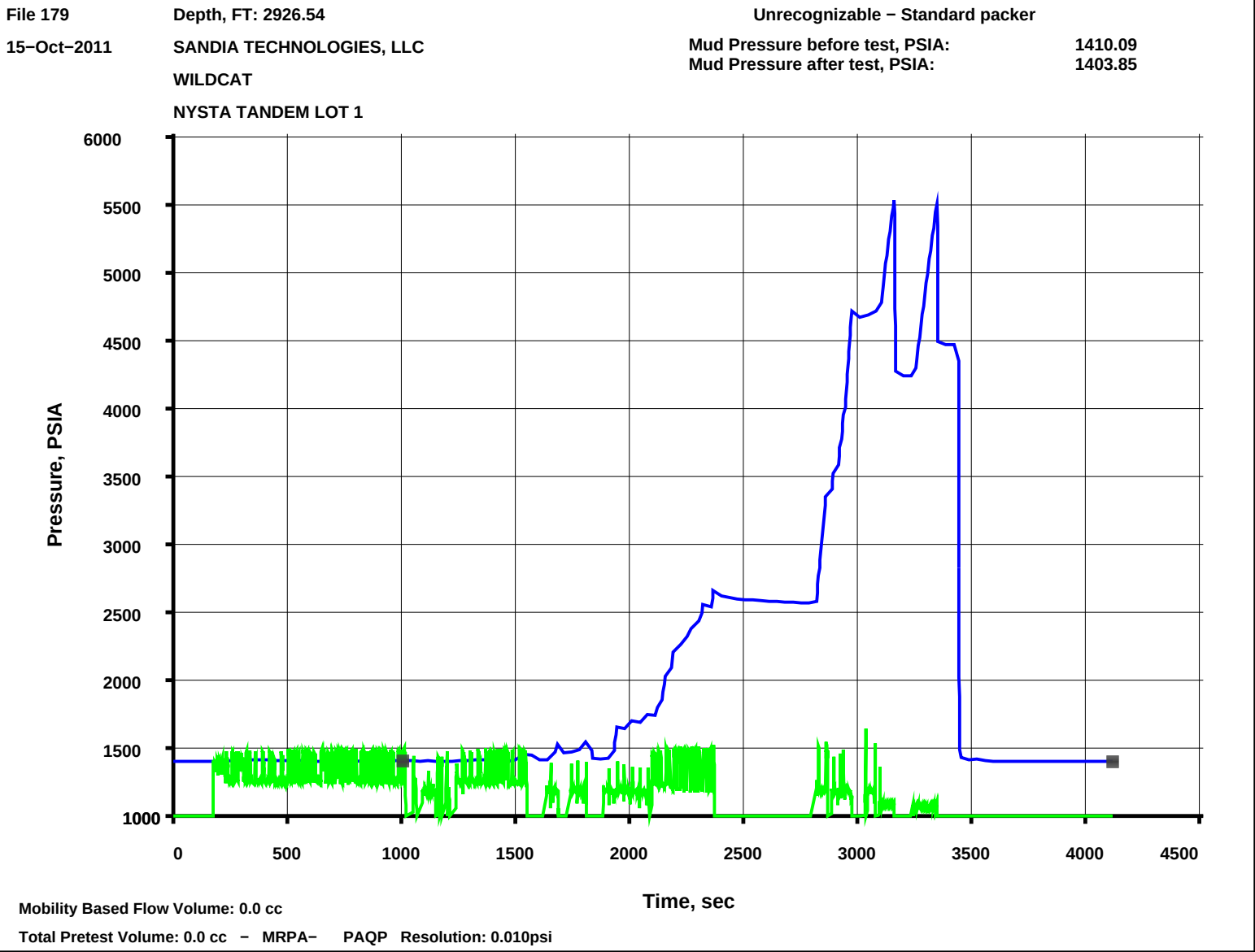
MRPA	HPS-5108-MDT_b	MRSC_01	HPS-5108-MDT_b
MRPO_UD	HPS-5108-MDT_b	MRSC_02	HPS-5108-MDT_b
MRPC	HPS-5108-MDT_b	SGT-L	19C0-187
TCC-BF	19C0-187		

Output DLIS Files

DEFAULT	MDT_176LTP	FN:262	PRODUCER	20-Oct-2011 10:10
BACKUP	MDT_176LTP	FN:263	PRODUCER	20-Oct-2011 10:13



Mini Frac Test
2926.5 ft



Company: SANDIA TECHNOLOGIES, LLC					Well: NYSTA TANDEM LOT 1
Output DLIS Files					
DEFAULT	MDT_179LTP	FN:268	PRODUCER	20-Oct-2011 11:55	2926.5 FT
BACKUP	MDT_179LTP	FN:269	PRODUCER	20-Oct-2011 11:59	2926.5 FT

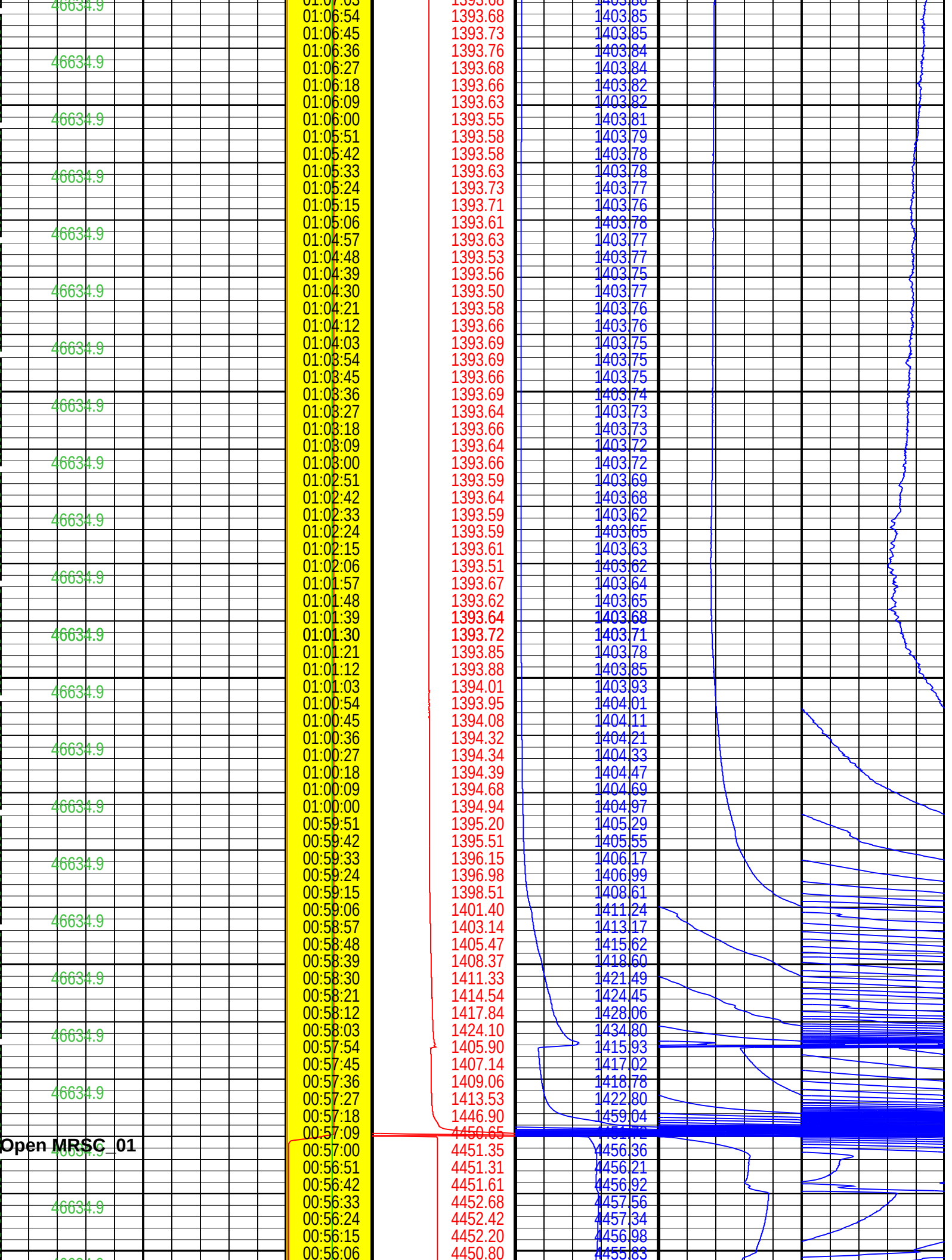
Elapsed Time (s)	Event Summary
3426.3	Open Sample Chamber Module 1 (1 Gallon, Through-Wire, H2S), sample number = 12
3336.3	Pumping Stopped 0.0 C3 Dual Up-down Pumpout Module (MRPOUD)
3226.8	Pump Down Started Dual Up-down Pumpout Module (MRPOUD)
3148.8	Pumping Stopped 366.0 C3 Dual Up-down Pumpout Module (MRPOUD)
3079.2	Pump Down Started Dual Up-down Pumpout Module (MRPOUD)
3067.2	Pumping Stopped 366.0 C3 Dual Up-down Pumpout Module (MRPOUD)
3030.3	Pump Down Started Dual Up-down Pumpout Module (MRPOUD)
3026.7	Pumping Stopped 0.0 C3 Dual Up-down Pumpout Module (MRPOUD)
3018.3	Pump Down Started Dual Up-down Pumpout Module (MRPOUD)
2965.2	Pumping Stopped 1098.0 C3 Dual Up-down Pumpout Module (MRPOUD)
2871.3	Pump Down Started Dual Up-down Pumpout Module (MRPOUD)
2863.2	Pumping Stopped 732.0 C3 Dual Up-down Pumpout Module (MRPOUD)

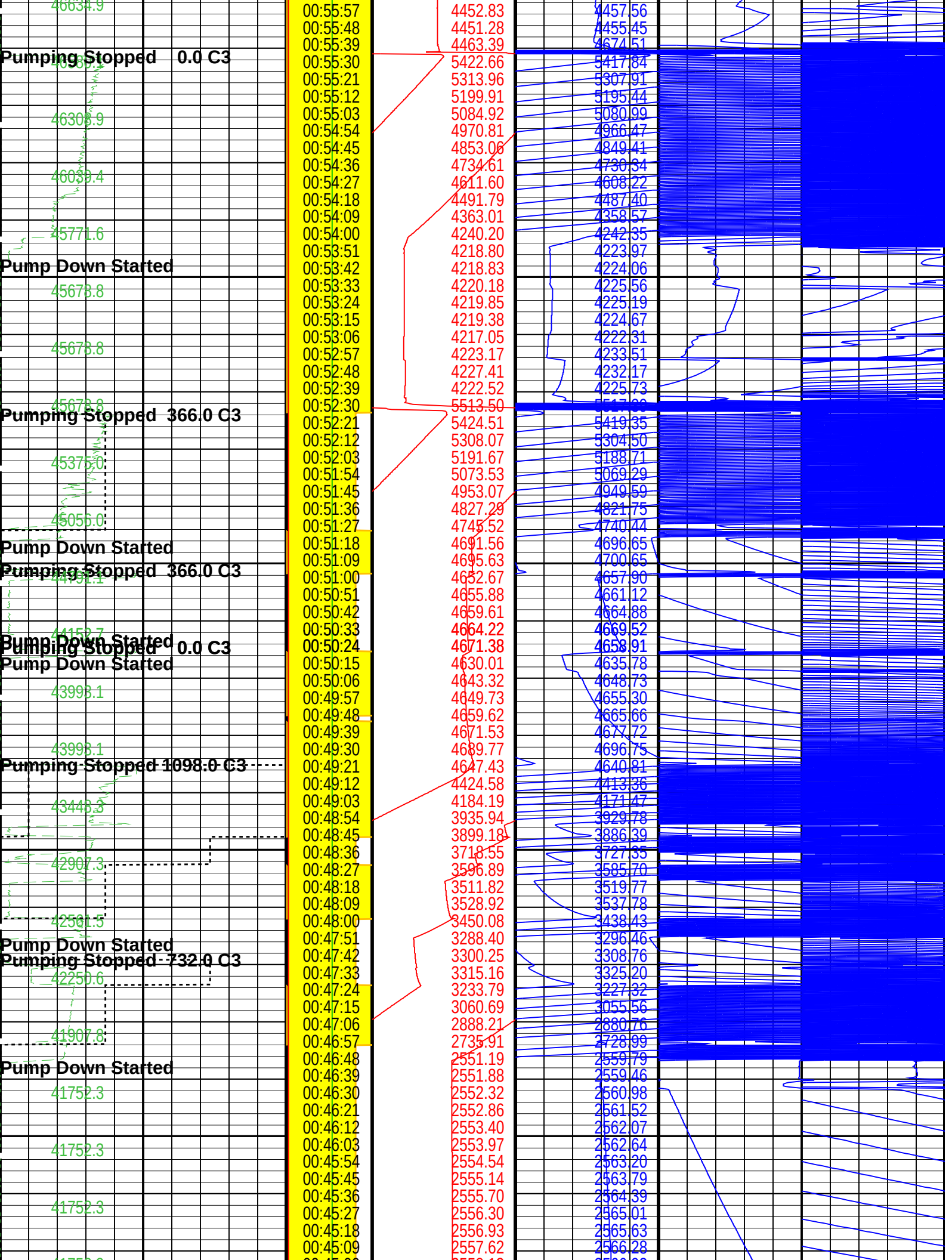
2806.8	Pump Down Started Dual Up-down Pumpout Module (MRPOUD)
2367.3	Pumping Stopped 6222.0 C3 Dual Up-down Pumpout Module (MRPOUD)
2087.1	Pump Down Started Dual Up-down Pumpout Module (MRPOUD)
2079.6	Pumping Stopped 2196.0 C3 Dual Up-down Pumpout Module (MRPOUD)
1877.4	Pump Down Started Dual Up-down Pumpout Module (MRPOUD)
1838.1	Seal Sample Chamber Module 1 (1 Gallon, Through-Wire, H2S)
1825.2	Open Sample Chamber Module 1 (1 Gallon, Through-Wire, H2S), sample number = 12
1806.0	Pumping Stopped 732.0 C3 Dual Up-down Pumpout Module (MRPOUD)
1732.8	Pump Down Started Dual Up-down Pumpout Module (MRPOUD)
1708.2	Seal Sample Chamber Module 1 (1 Gallon, Through-Wire, H2S)
1699.8	Open Sample Chamber Module 1 (1 Gallon, Through-Wire, H2S), sample number = 11
1682.4	Pumping Stopped 366.0 C3 Dual Up-down Pumpout Module (MRPOUD)
1629.6	Pump Down Started Dual Up-down Pumpout Module (MRPOUD)
1577.1	Seal Sample Chamber Module 1 (1 Gallon, Through-Wire, H2S)
1565.4	Open Sample Chamber Module 1 (1 Gallon, Through-Wire, H2S), sample number = 10
1546.8	Pumping Stopped 6588.0 C3 Dual Up-down Pumpout Module (MRPOUD)
1233.9	Pump Down Started Dual Up-down Pumpout Module (MRPOUD)
1215.3	Seal Sample Chamber Module 1 (1 Gallon, Through-Wire, H2S)
1148.1	Pumping Stopped 1098.0 C3 Dual Up-down Pumpout Module (MRPOUD)
1086.6	Pump Up Started Dual Up-down Pumpout Module (MRPOUD)
1020.6	Pumping Stopped 17934.0 C3 Dual Up-down Pumpout Module (MRPOUD)
1024.8	Open Sample Chamber Module 1 (1 Gallon, Through-Wire, H2S), sample number = 8
172.2	Pump Down Started Dual Up-down Pumpout Module (MRPOUD)
147.0	Seal Sample Chamber Module 1 (1 Gallon, Through-Wire, H2S)

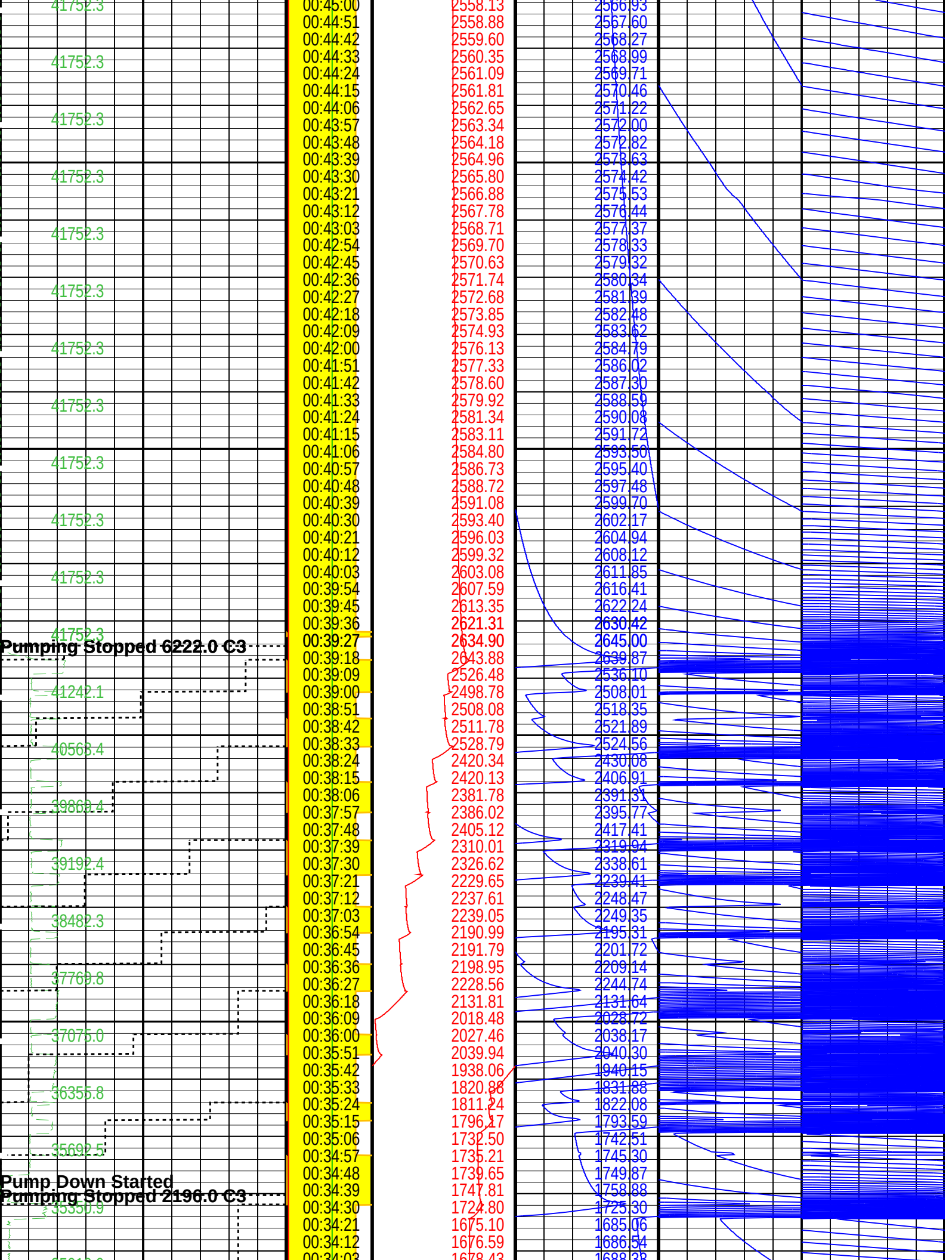
PIP SUMMARY

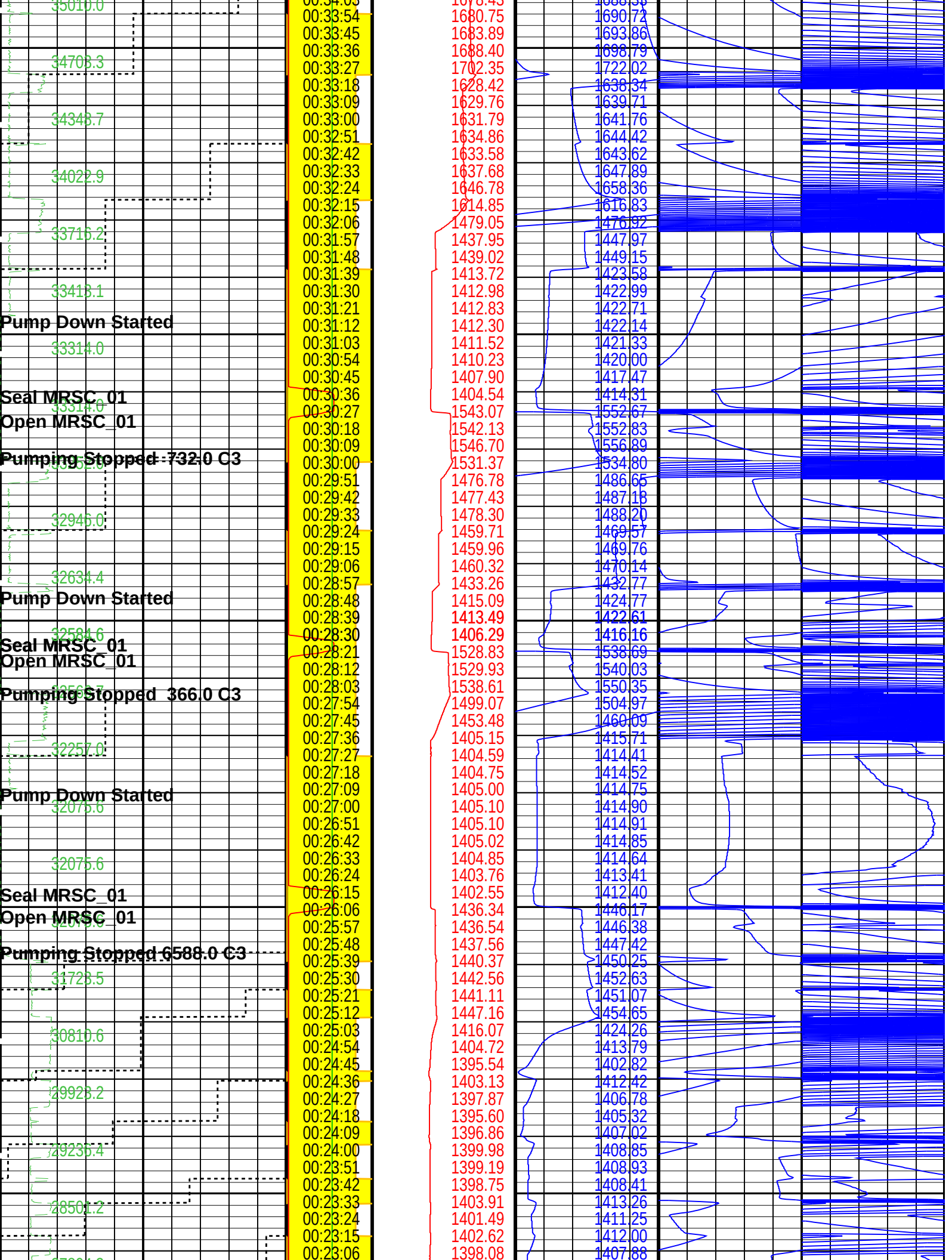
Time Mark Every 60 S

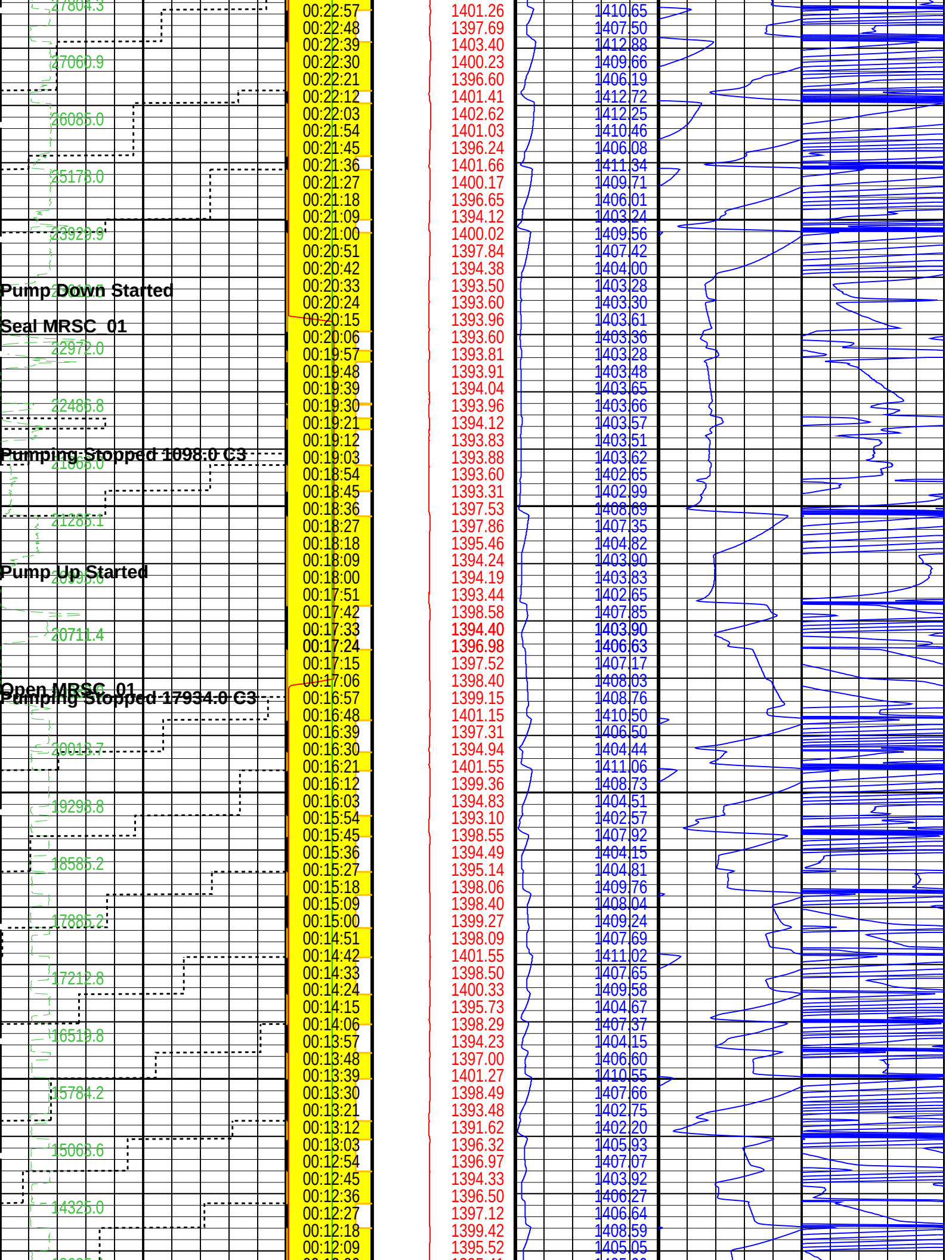
				MRSC 2 Valve Position (VP2) (-----)											
				-5 250											
MRPOUD Hydraulic Pump Output Volume (POUDPV) 0-----1000 (C3)				MRSC 1 Valve Position (VP1) (-----)											
				-5 250											
MRPOUD Motor Current (POUDMC) 0 (AMPS) 20				MRPOUD Solenoid 3 Status (POUDS3) 5 (-----) 0		MRPA Strain Gauge Pressure (PASG) (PSIG)		MRPA Quartz Gauge Pressure (PAQP) (PSIA)							
PO Volume (POUDCV) (-----)				Elapsed Time (ETIM) (S)		MRPA Strain Gauge Pressure (PASG) 0 (PSIG) 1000		MRPA Quartz Gauge Pressure (PAQP) (PSIA) 100		MRPA Quartz Gauge Pressure (PAQP) (PSIA) 10		MRPA Quartz Gauge Pressure (PAQP) (PSIA) 1			
46634.9				01:08:33		1393.57		1403.85							
				01:08:24		1393.70		1403.86							
				01:08:15		1393.57		1403.86							
46634.9				01:08:06		1393.68		1403.85							
				01:07:57		1393.76		1403.85							
				01:07:48		1393.73		1403.84							
				01:07:39		1393.68		1403.85							
46634.9				01:07:30		1393.78		1403.85							
				01:07:21		1393.70		1403.85							
				01:07:12		1393.83		1403.87							
46634.9				01:07:03		1393.68		1403.86							

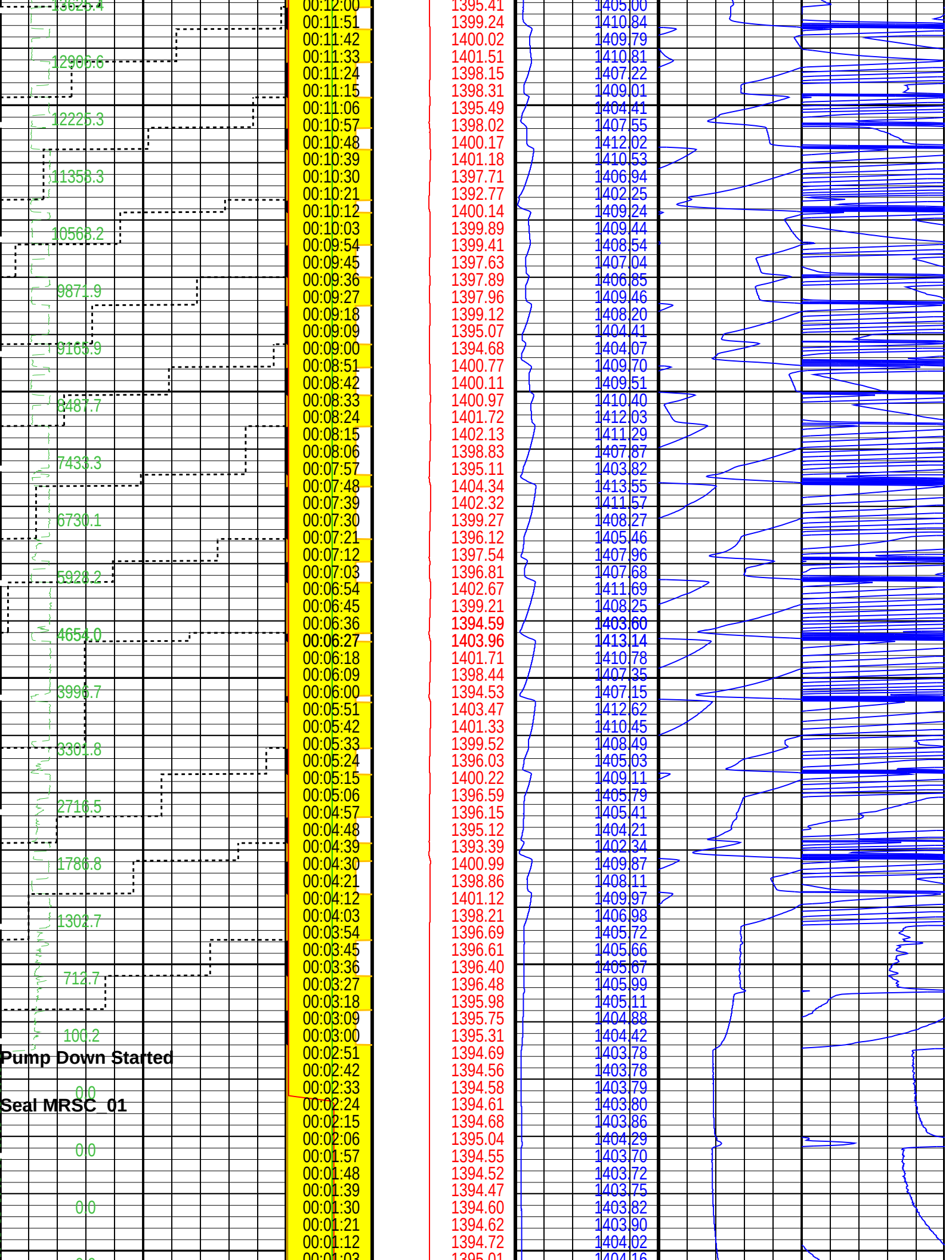












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PIP SUMMARY

Time Mark Every 60 S

Parameters

DLIS Name	Description	Value
MRPA: Dual Packer Module (MRPA)		
PDCO	Probe Depth Correction Offset	0 FT
QGCA	Quartz Gauge Pressure Correction Applied	BOTH
QGDA	Quartz Gauge Deviation Angle	0 DEG
QGFD	Quartz Gauge Flow Line Density	1 G/C3
MRSC_01: Sample Chamber Module (MRSC) 01		
PDCO	Probe Depth Correction Offset	0 FT
MRPO_UD: Dual Up-down Pumpout Module (MRPOUD)		
PDCO	Probe Depth Correction Offset	0 FT
POUDAVHCC	MRPOUD Apply Volume Half Cycle Correction	NO
POUDAVOPC	MRPOUD Apply Volume Over Pressure Correction	NO
POUDAVSC	MRPOUD Apply Volume Stroke Correction	YES
POUDDISPVOL	MRPOUD Displacement Unit Stroke Volume	366
POUDFIXDISP	MRPOUD Fixed Displacement Pump Displacement Per Revolution	0.9756
POUDHCPRLVL	MRPOUD Half-cycle Correction Pressure Level	450 PSIG
POUDOPCLVL	MRPOUD Over Pressure Correction Level	3800 PSIG
POUDPMPTYP	MRPOUD Hydraulic Pump Type	CONSTANT_DISPLACEMENT
MRSC_02: Sample Chamber Module (MRSC) 02		
PDCO	Probe Depth Correction Offset	0 FT
MRPC: Power Cartridge		
PDCO	Probe Depth Correction Offset	0 FT

Format: MRPA_STATION_LOG_QG Vertical Scale: 1" per 60S

Graphics File Created: 20-Oct-2011 11:55

OP System Version: 19C0-187

MRPA	HPS-5108-MDT_b	MRSC_01	HPS-5108-MDT_b
MRPO_UD	HPS-5108-MDT_b	MRSC_02	HPS-5108-MDT_b
MRPC	HPS-5108-MDT_b	SGT-L	19C0-187
TCC-BF	19C0-187		

Output DLIS Files

DEFAULT	MDT_179LTP	FN:268	PRODUCER	20-Oct-2011 11:55
BACKUP	MDT_179LTP	FN:269	PRODUCER	20-Oct-2011 11:59



Mini DST 3055.4 ft

MAXIS Field Log

File 180

Depth, FT: 3055.43

Unrecognizable - Standard packer

15-Oct-2011

SANDIA TECHNOLOGIES, LLC

Mud Pressure before test, PSIA:

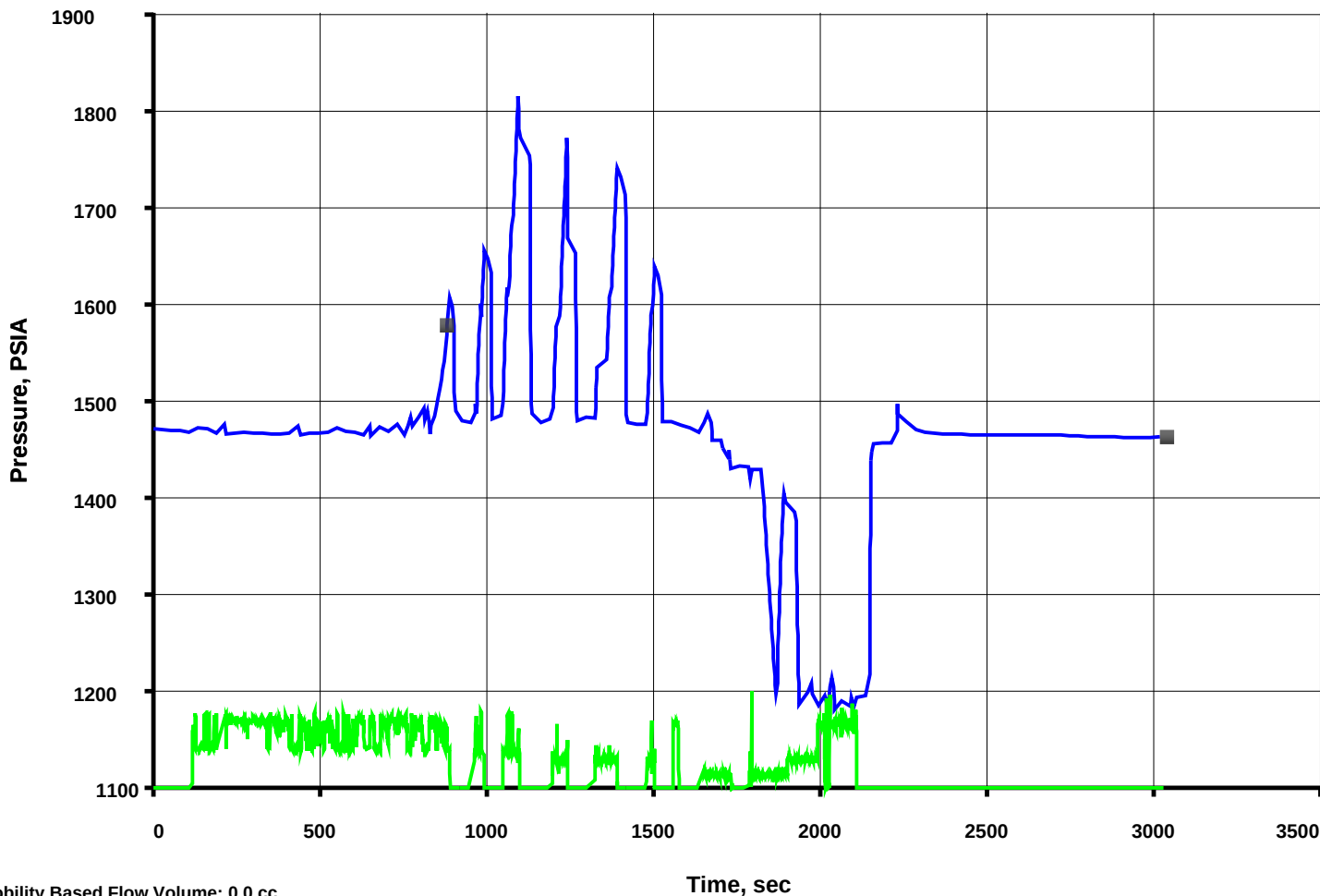
1577.86

WILDCAT

Mud Pressure after test, PSIA:

1462.26

NYSTA TANDEM LOT 1



Company: SANDIA TECHNOLOGIES, LLC

Well: NYSTA TANDEM LOT 1

Output DLIS Files

DEFAULT	MDT_180LTP	FN:270	PRODUCER	20-Oct-2011 13:23	3055.4 FT
BACKUP	MDT_180LTP	FN:271	PRODUCER	20-Oct-2011 13:27	3055.4 FT

Elapsed
Time (s)

Event Summary

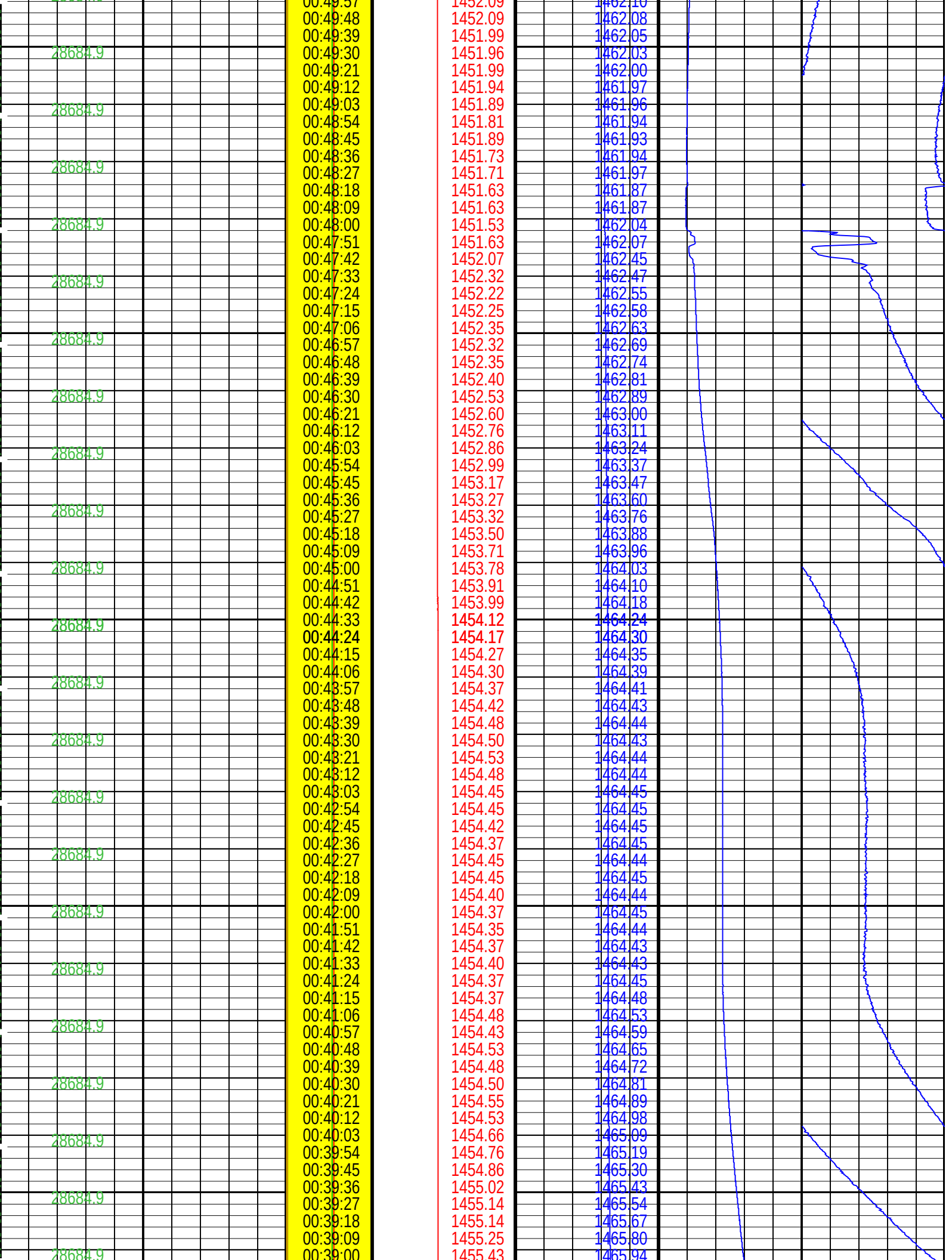
2138.4	Open Sample Chamber Module 1 (1 Gallon, Through-Wire, H2S), sample number = 20
2104.2	Pumping Stopped 4758.0 C3 Dual Up-down Pumpout Module (MRPOUD)

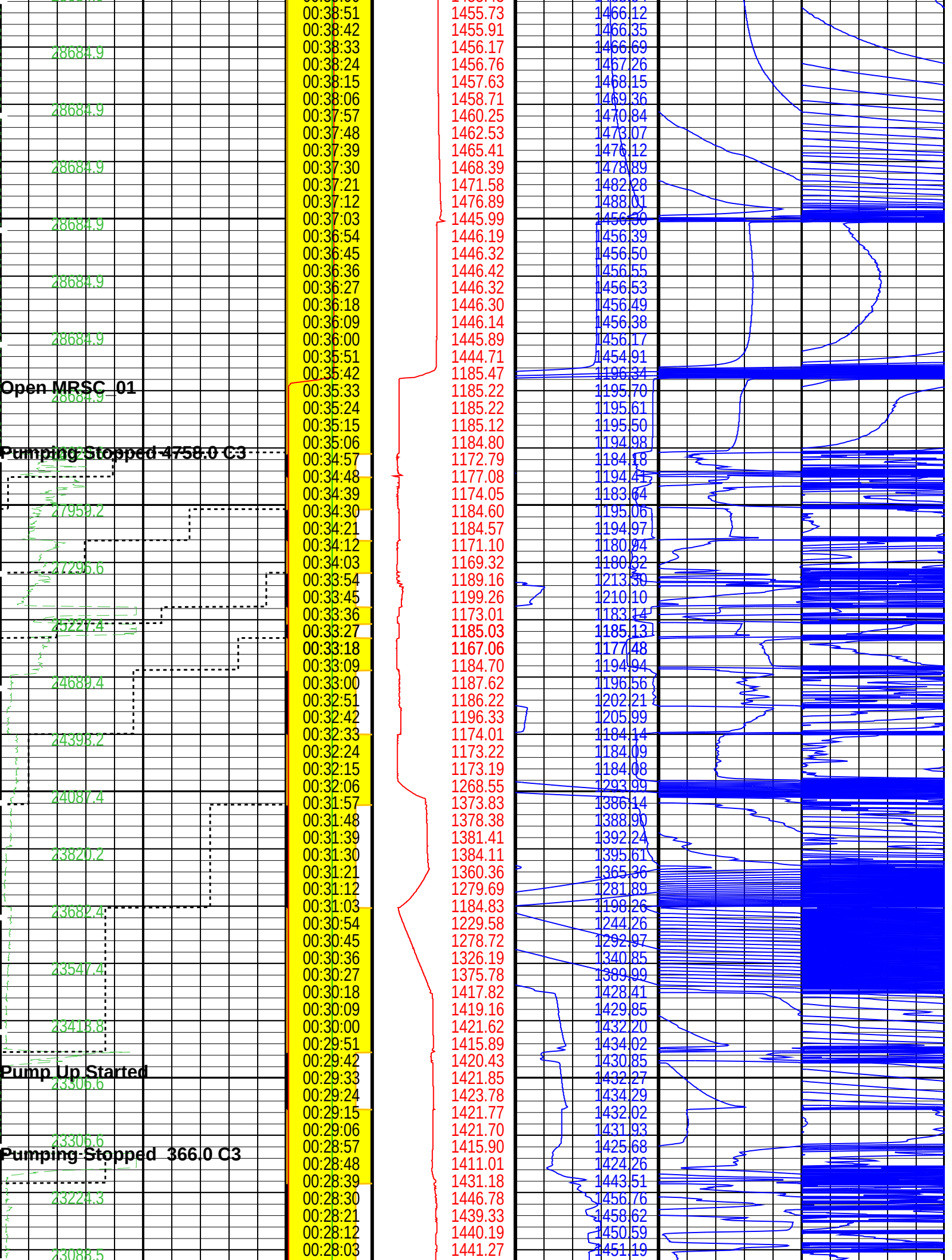
1779.9	Pump Up Started Dual Up-down Pumpout Module (MRPOUD)
1736.7	Pumping Stopped 366.0 C3 Dual Up-down Pumpout Module (MRPOUD)
1644.3	Pump Up Started Dual Up-down Pumpout Module (MRPOUD)
1587.0	Seal Sample Chamber Module 1 (1 Gallon, Through-Wire, H2S)
1516.5	Open Sample Chamber Module 1 (1 Gallon, Through-Wire, H2S), sample number = 19
1499.7	Pumping Stopped 366.0 C3 Dual Up-down Pumpout Module (MRPOUD)
1473.3	Pump Down Started Dual Up-down Pumpout Module (MRPOUD)
1441.5	Seal Sample Chamber Module 1 (1 Gallon, Through-Wire, H2S)
1408.8	Open Sample Chamber Module 1 (1 Gallon, Through-Wire, H2S), sample number = 17
1388.4	Pumping Stopped 732.0 C3 Dual Up-down Pumpout Module (MRPOUD)
1318.2	Pump Down Started Dual Up-down Pumpout Module (MRPOUD)
1272.9	Seal Sample Chamber Module 1 (1 Gallon, Through-Wire, H2S)
1259.4	Open Sample Chamber Module 1 (1 Gallon, Through-Wire, H2S), sample number = 17
1240.5	Pumping Stopped 732.0 C3 Dual Up-down Pumpout Module (MRPOUD)
1190.7	Pump Down Started Dual Up-down Pumpout Module (MRPOUD)
1164.0	Seal Sample Chamber Module 1 (1 Gallon, Through-Wire, H2S)
1123.8	Open Sample Chamber Module 1 (1 Gallon, Through-Wire, H2S), sample number = 16
1097.7	Pumping Stopped 1098.0 C3 Dual Up-down Pumpout Module (MRPOUD)
1041.9	Pump Down Started Dual Up-down Pumpout Module (MRPOUD)
1016.4	Seal Sample Chamber Module 1 (1 Gallon, Through-Wire, H2S)
1006.8	Open Sample Chamber Module 1 (1 Gallon, Through-Wire, H2S), sample number = 14
995.4	Pumping Stopped 366.0 C3 Dual Up-down Pumpout Module (MRPOUD)
957.9	Pump Down Started Dual Up-down Pumpout Module (MRPOUD)
926.1	Seal Sample Chamber Module 1 (1 Gallon, Through-Wire, H2S)
918.3	Open Sample Chamber Module 1 (1 Gallon, Through-Wire, H2S), sample number = 14
892.8	Pumping Stopped 17202.0 C3 Dual Up-down Pumpout Module (MRPOUD)
115.5	Pump Down Started Dual Up-down Pumpout Module (MRPOUD)
99.6	Seal Sample Chamber Module 1 (1 Gallon, Through-Wire, H2S)

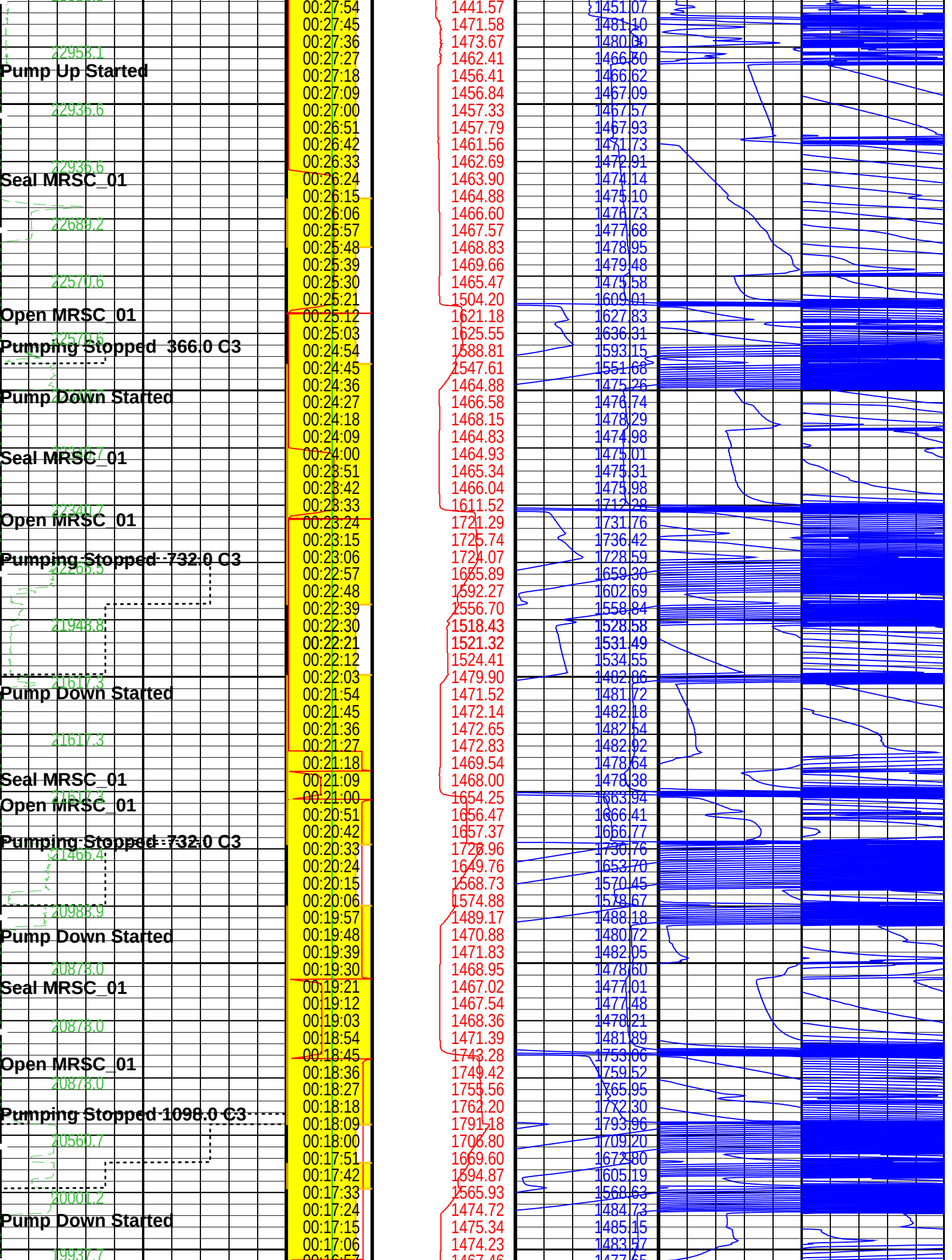
PIP SUMMARY

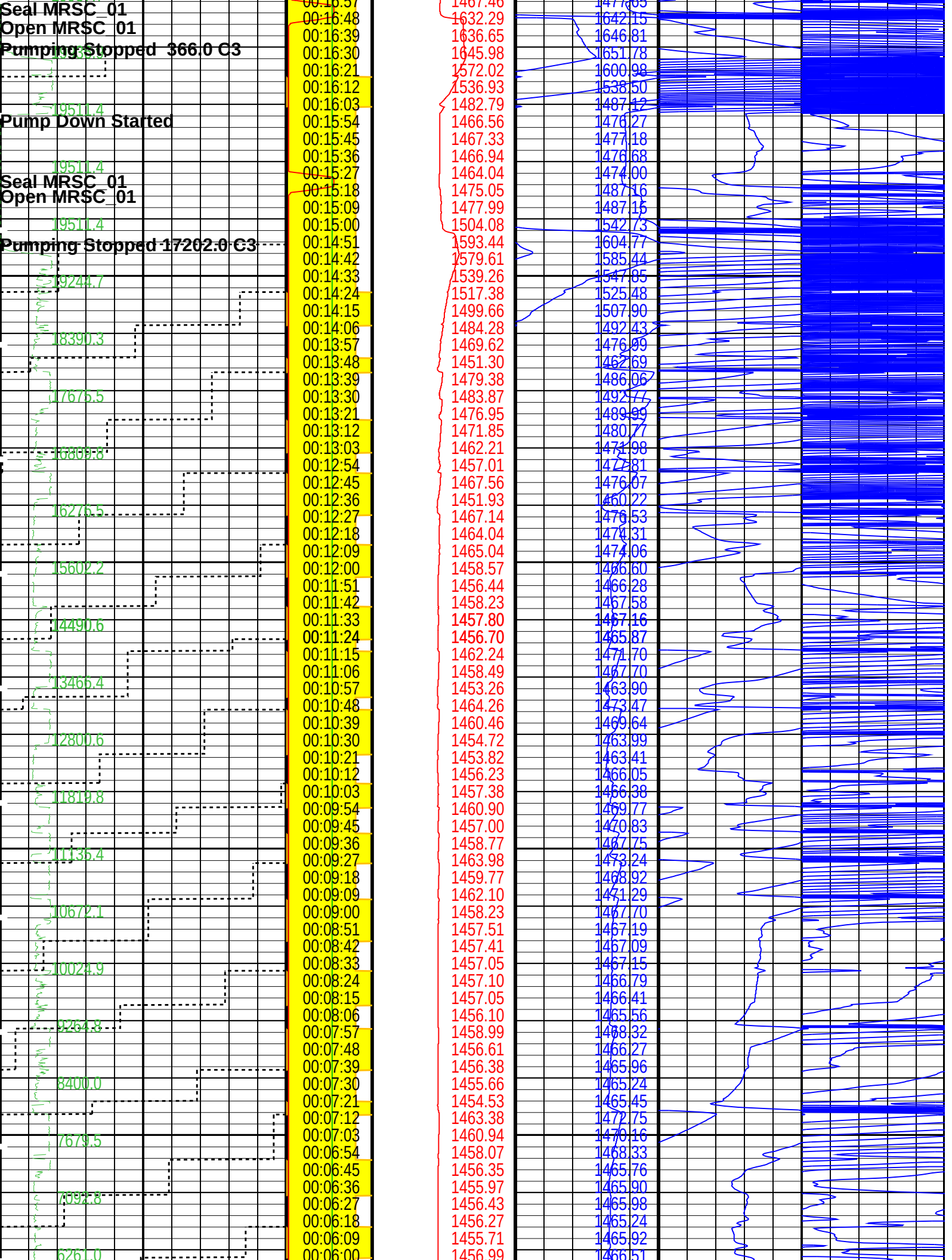
Time Mark Every 60 S

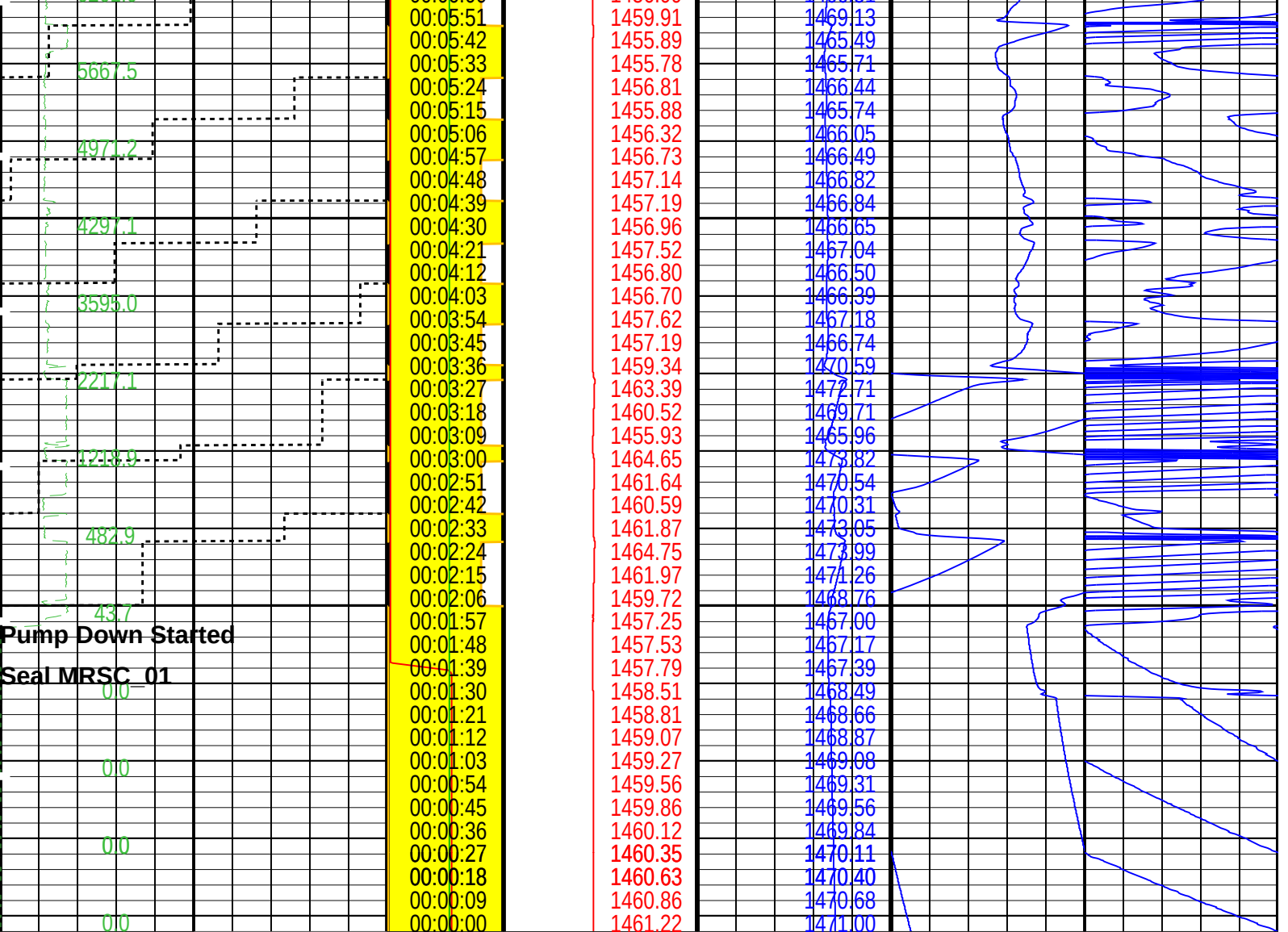
					MRSC 2 Valve Position (VP2) (-----)									
					-5250									
MRPOUD Hydraulic Pump Output Volume (POUDPV)										MRSC 1 Valve Position (VP1) (-----)				
0-----1000 (C3)										-5250				
MRPOUD Motor Current (POUDMC) 0 (AMPS) 20										MRPOUD Solenoid 3 Status (POUDS3) 5 (-----) 0				
PO Volume (POUDCV) (-----)										MRPA Strain Gauge Pressure (PASG) (PSIG)				
					MRPA Quartz Gauge Pressure (PAQP) (PSIA)									
					MRPA Strain Gauge Pressure (PASG) 0 (PSIG) 1000					MRPA Quartz Gauge Pressure (PAQP) 0 (PSIA) 100				
					MRPA Quartz Gauge Pressure (PAQP) 0 (PSIA) 10					MRPA Quartz Gauge Pressure (PAQP) 0 (PSIA) 1				











PO Volume (POUDCV) (-----)		Elapsed Time (ETIM) (S)	MRPA Strain Gauge Pressure (PASG)	MRPA Quartz Gauge Pressure (PAQP)		MRPA Quartz Gauge Pressure (PAQP)		MRPA Quartz Gauge Pressure (PAQP)	
			0 (PSIG) 1000	0 (PSIA) 100	0 (PSIA) 10	0 (PSIA) 1			
MRPOUD Motor Current (POUDMC) 0 (AMPS) 20		MRPOUD Solenoid 3 Status (POUDS3) 5 (-----) 0	MRPA Strain Gauge Pressure (PASG) (PSIG)	MRPA Quartz Gauge Pressure (PAQP) (PSIA)					
MRPOUD Hydraulic Pump Output Volume (POUDPV) 0-----1000 (C3)		MRSC 1 Valve Position (VP1) (-----) -5 250							
		MRSC 2 Valve Position (VP2) (-----) -5 250							

PIP SUMMARY

Time Mark Every 60 S

Parameters		
DLIS Name	Description	Value
MRPA: Dual Packer Module (MRPA)		

PDCO	Probe Depth Correction Offset	0	FT
QGCA	Quartz Gauge Pressure Correction Applied	BOTH	
QGDA	Quartz Gauge Deviation Angle	0	DEG
QGFD	Quartz Gauge Flow Line Density	1	G/C3
MRSC_01: Sample Chamber Module (MRSC) 01			
PDCO	Probe Depth Correction Offset	0	FT
MRPO_UD: Dual Up-down Pumpout Module (MRPOUD)			
PDCO	Probe Depth Correction Offset	0	FT
POUDAVHCC	MRPOUD Apply Volume Half Cycle Correction	NO	
POUDAVOPC	MRPOUD Apply Volume Over Pressure Correction	NO	
POUDAVSC	MRPOUD Apply Volume Stroke Correction	YES	
POUDDISPVOL	MRPOUD Displacement Unit Stroke Volume	366	
POUDFIXDISP	MRPOUD Fixed Displacement Pump Displacement Per Revolution	0.9756	
POUDHCPRLVL	MRPOUD Half-cycle Correction Pressure Level	450	PSIG
POUDOPCLVL	MRPOUD Over Pressure Correction Level	3800	PSIG
POUDPMPTYP	MRPOUD Hydraulic Pump Type	CONSTANT_DISPLACEMENT	
MRSC_02: Sample Chamber Module (MRSC) 02			
PDCO	Probe Depth Correction Offset	0	FT
MRPC: Power Cartridge			
PDCO	Probe Depth Correction Offset	0	FT

Format: MRPA_STATION_LOG_QG Vertical Scale: 1" per 60S Graphics File Created: 20-Oct-2011 13:23

OP System Version: 19C0-187

MRPA	HPS-5108-MDT_b	MRSC_01	HPS-5108-MDT_b
MRPO_UD	HPS-5108-MDT_b	MRSC_02	HPS-5108-MDT_b
MRPC	HPS-5108-MDT_b	SGT-L	19C0-187
TCC-BF	19C0-187		

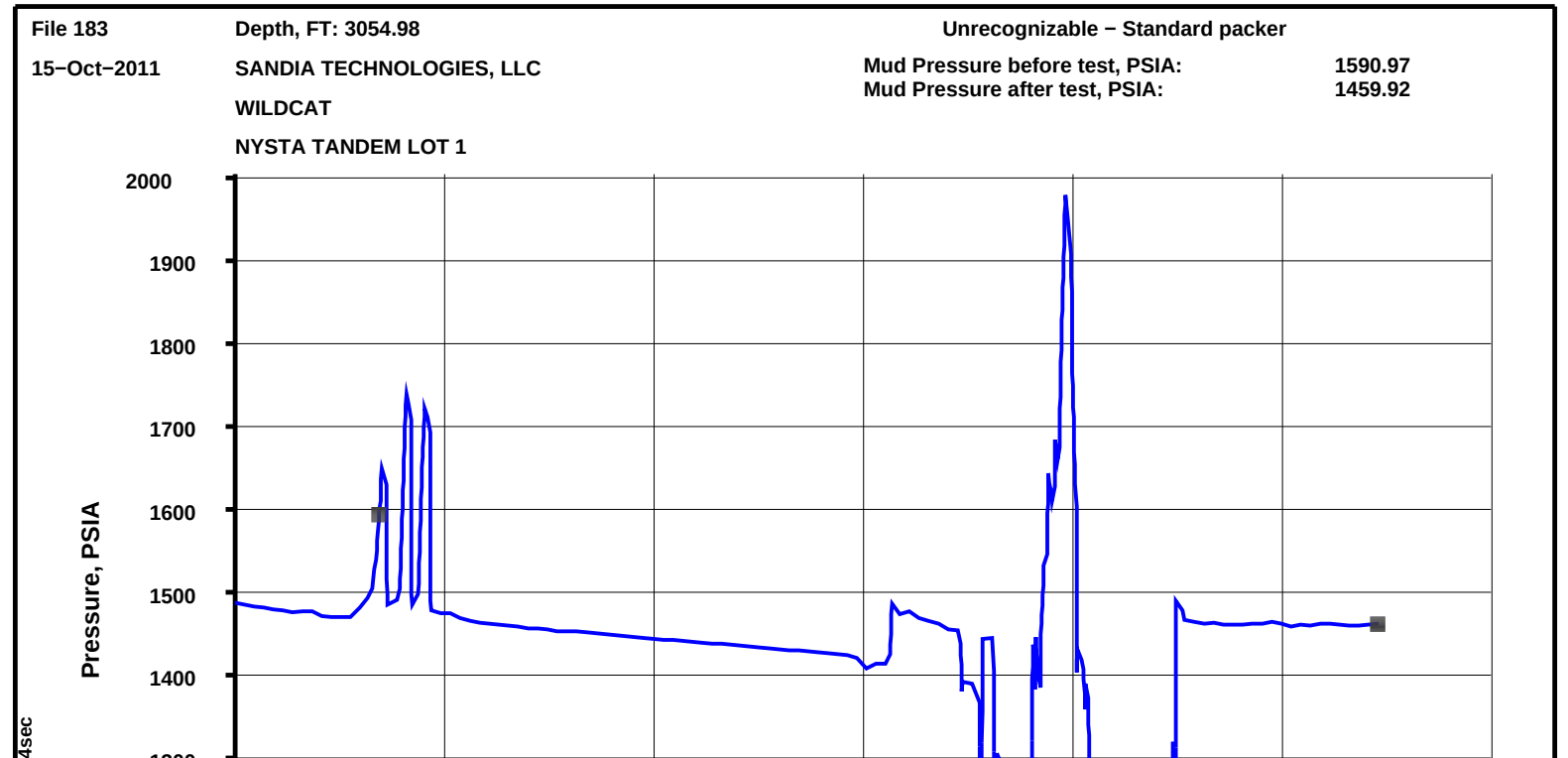
Output DLIS Files

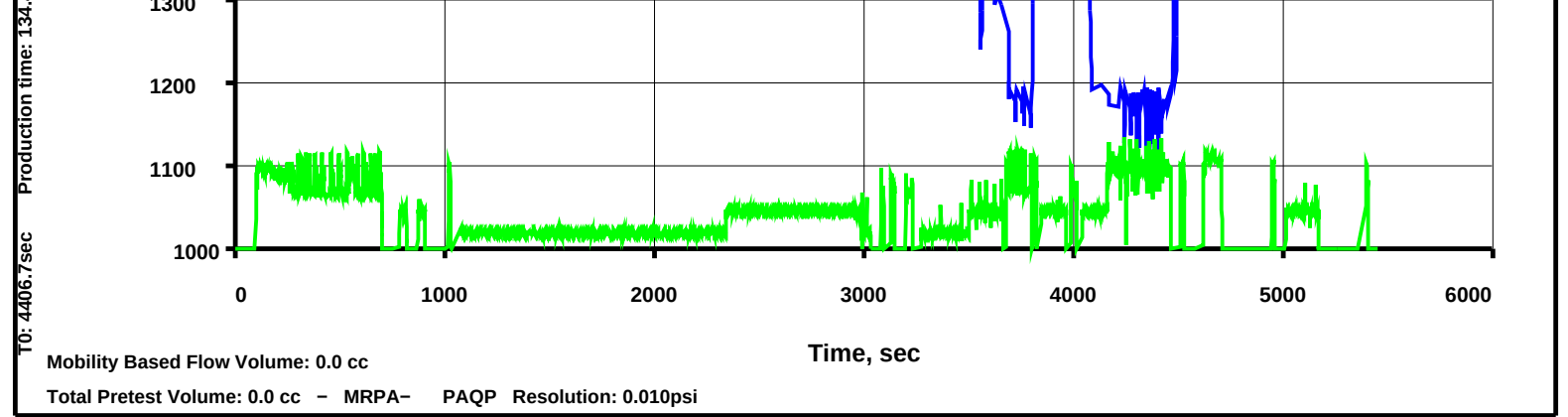
DEFAULT	MDT_180LTP	FN:270	PRODUCER	20-Oct-2011 13:23
BACKUP	MDT_180LTP	FN:271	PRODUCER	20-Oct-2011 13:27

Schlumberger

Mini DST
3055.0 ft

MAXIS Field Log





Company: SANDIA TECHNOLOGIES, LLC Well: NYSTA TANDEM LOT 1

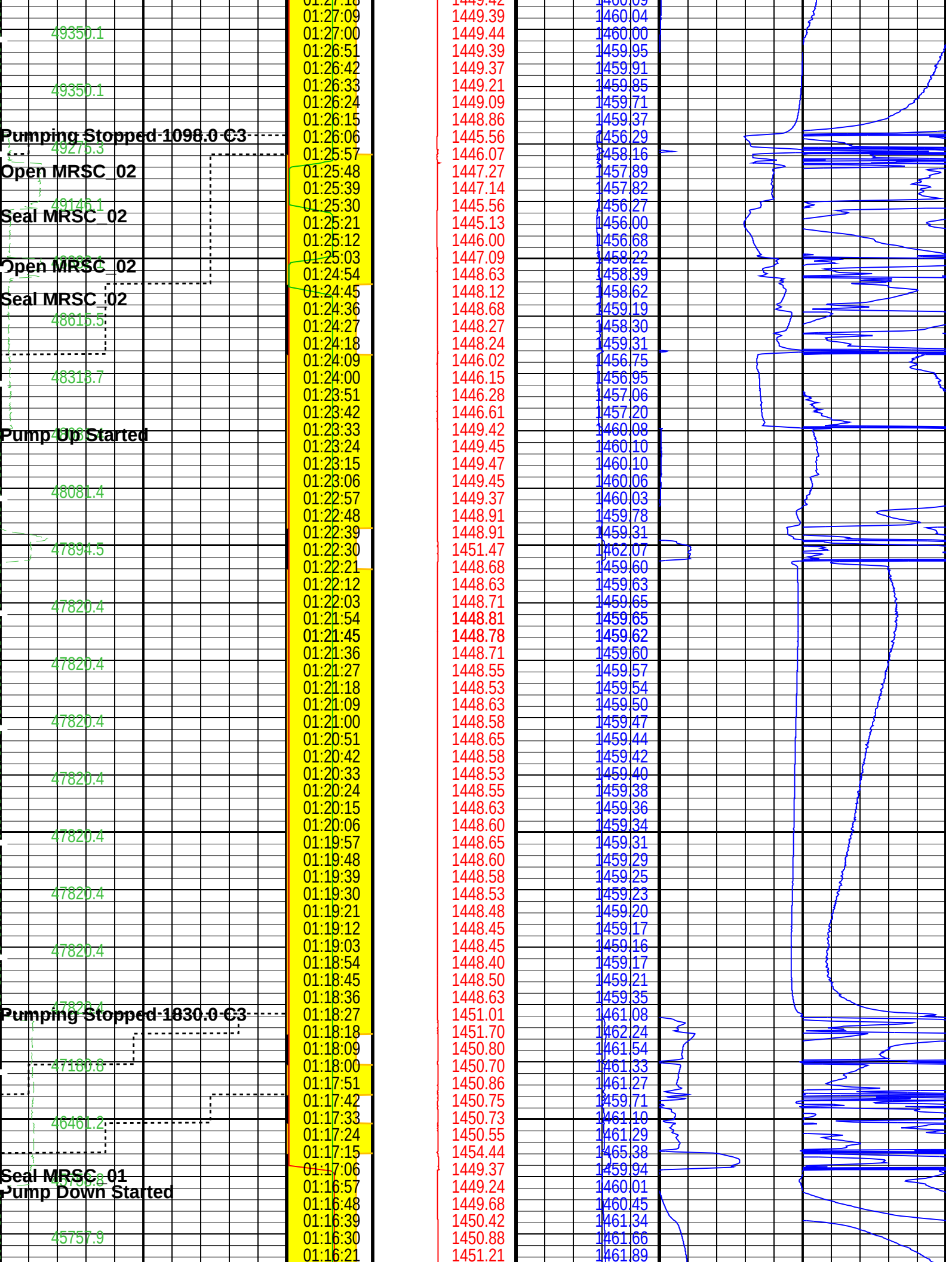
Output DLIS Files

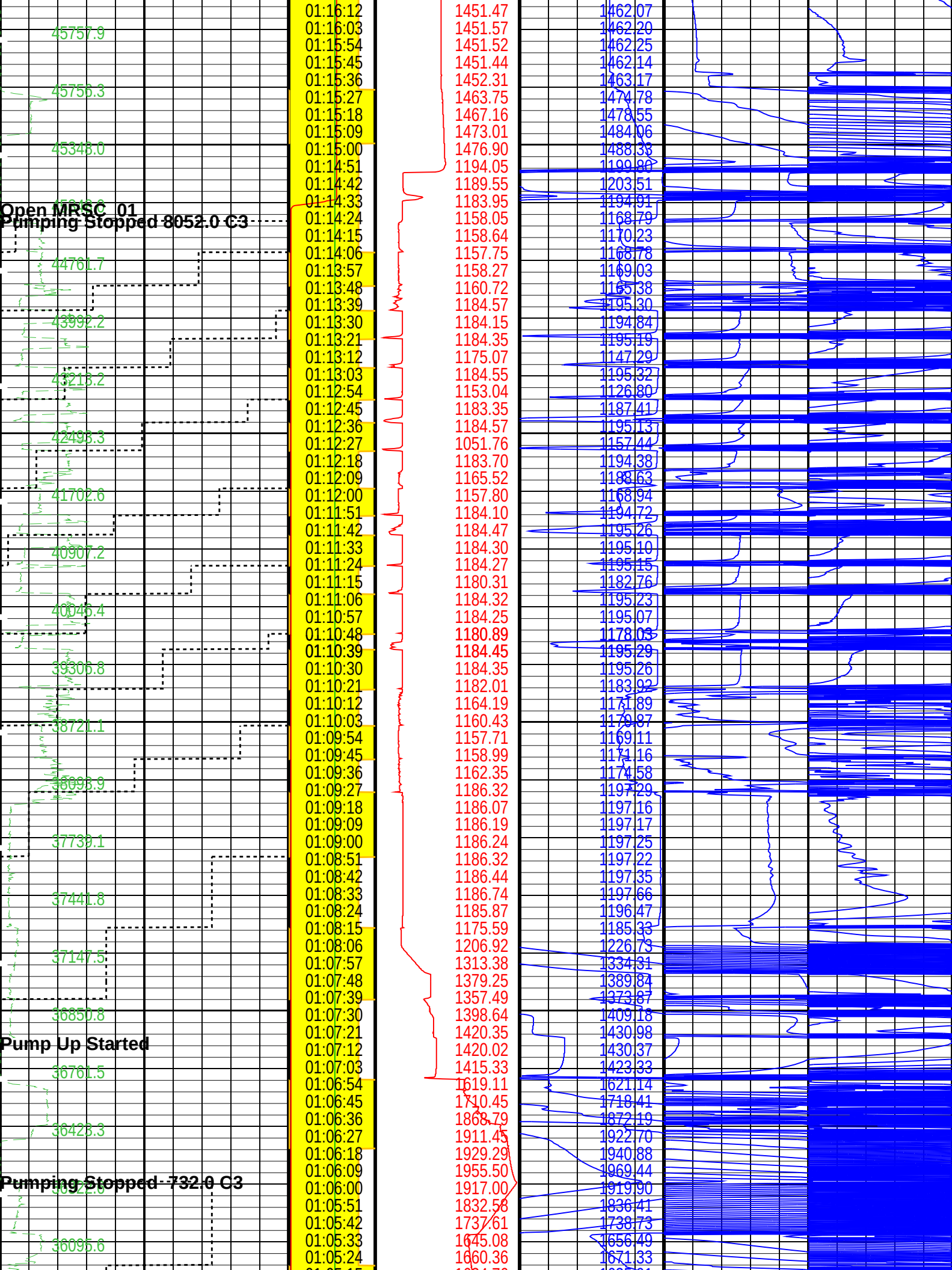
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BACKUP	MDT_183LTP	FN:277	PRODUCER	20-Oct-2011 16:50	3055.0 FT

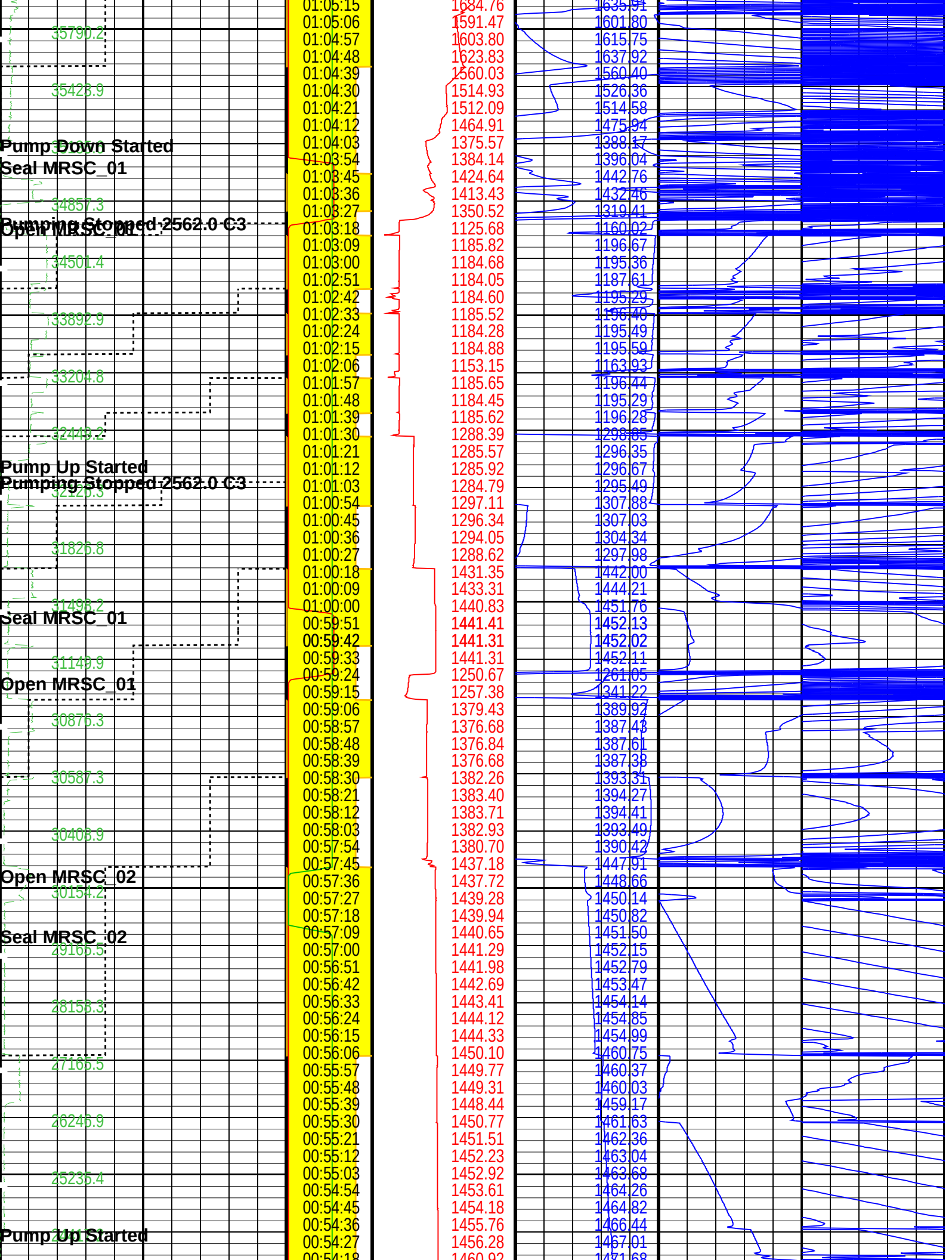
Elapsed Time (s)	Event Summary
5170.2	Pumping Stopped 1098.0 C3 Dual Up-down Pumpout Module (MRPOUD)
5151.6	Open Sample Chamber Module 2 (1 Gallon, H2S), sample number = 31
5127.9	Seal Sample Chamber Module 2 (1 Gallon, H2S)
5101.8	Open Sample Chamber Module 2 (1 Gallon, H2S), sample number = 30
5084.7	Seal Sample Chamber Module 2 (1 Gallon, H2S)
5013.6	Pump Up Started Dual Up-down Pumpout Module (MRPOUD)
4710.6	Pumping Stopped 1830.0 C3 Dual Up-down Pumpout Module (MRPOUD)
4626.3	Seal Sample Chamber Module 1 (1 Gallon, Through-Wire, H2S)
4617.6	Pump Down Started Dual Up-down Pumpout Module (MRPOUD)
4471.8	Open Sample Chamber Module 1 (1 Gallon, Through-Wire, H2S), sample number = 29
4465.8	Pumping Stopped 8052.0 C3 Dual Up-down Pumpout Module (MRPOUD)
4038.6	Pump Up Started Dual Up-down Pumpout Module (MRPOUD)
3966.6	Pumping Stopped 732.0 C3 Dual Up-down Pumpout Module (MRPOUD)
3844.5	Pump Down Started Dual Up-down Pumpout Module (MRPOUD)
3833.1	Seal Sample Chamber Module 1 (1 Gallon, Through-Wire, H2S)
3803.7	Pumping Stopped 2562.0 C3 Dual Up-down Pumpout Module (MRPOUD)
3801.0	Open Sample Chamber Module 1 (1 Gallon, Through-Wire, H2S), sample number = 28
3676.5	Pump Up Started Dual Up-down Pumpout Module (MRPOUD)
3668.1	Pumping Stopped 2562.0 C3 Dual Up-down Pumpout Module (MRPOUD)
3597.3	Seal Sample Chamber Module 1 (1 Gallon, Through-Wire, H2S)
3562.8	Open Sample Chamber Module 1 (1 Gallon, Through-Wire, H2S), sample number = 27
3461.7	Open Sample Chamber Module 2 (1 Gallon, H2S), sample number = 25
3430.2	Seal Sample Chamber Module 2 (1 Gallon, H2S)
3273.9	Pump Up Started Dual Up-down Pumpout Module (MRPOUD)
3248.4	Seal Sample Chamber Module 1 (1 Gallon, Through-Wire, H2S)
3168.9	Open Sample Chamber Module 1 (1 Gallon, Through-Wire, H2S), sample number = 25
3153.3	Pumping Stopped 0.0 C3 Dual Up-down Pumpout Module (MRPOUD)
3126.6	Pump Down Started Dual Up-down Pumpout Module (MRPOUD)
3112.8	Seal Sample Chamber Module 1 (1 Gallon, Through-Wire, H2S)
3062.4	Open Sample Chamber Module 1 (1 Gallon, Through-Wire, H2S), sample number = 24
3034.2	Pumping Stopped 1098.0 C3 Dual Up-down Pumpout Module (MRPOUD)
1075.5	Pump Up Started Dual Up-down Pumpout Module (MRPOUD)
1046.1	Seal Sample Chamber Module 1 (1 Gallon, Through-Wire, H2S)

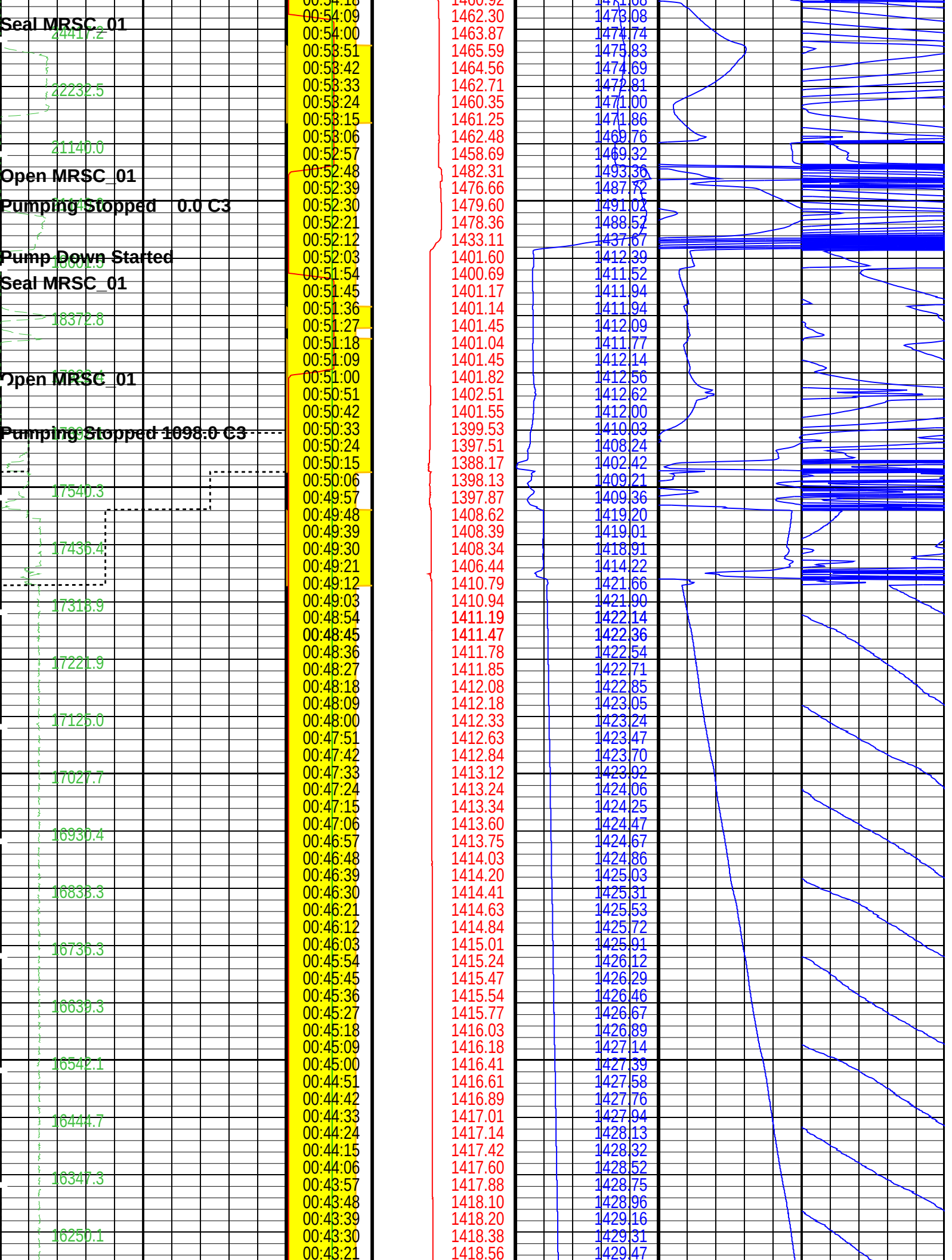
1046.1	Seal Sample Chamber Module 1 (1 Gallon, Through-Wire, H2S)
928.8	Open Sample Chamber Module 1 (1 Gallon, Through-Wire, H2S), sample number = 23
909.0	Pumping Stopped 0.0 C3 Dual Up-down Pumpout Module (MRPOUD)
873.3	Pump Down Started Dual Up-down Pumpout Module (MRPOUD)
845.4	Seal Sample Chamber Module 1 (1 Gallon, Through-Wire, H2S)
837.9	Open Sample Chamber Module 1 (1 Gallon, Through-Wire, H2S), sample number = 22
819.0	Pumping Stopped 0.0 C3 Dual Up-down Pumpout Module (MRPOUD)
783.6	Pump Down Started Dual Up-down Pumpout Module (MRPOUD)
729.3	Seal Sample Chamber Module 1 (1 Gallon, Through-Wire, H2S)
720.9	Open Sample Chamber Module 1 (1 Gallon, Through-Wire, H2S), sample number = 21
705.6	Pumping Stopped 11346.0 C3 Dual Up-down Pumpout Module (MRPOUD)
100.2	Pump Down Started Dual Up-down Pumpout Module (MRPOUD)
64.8	Seal Sample Chamber Module 1 (1 Gallon, Through-Wire, H2S)

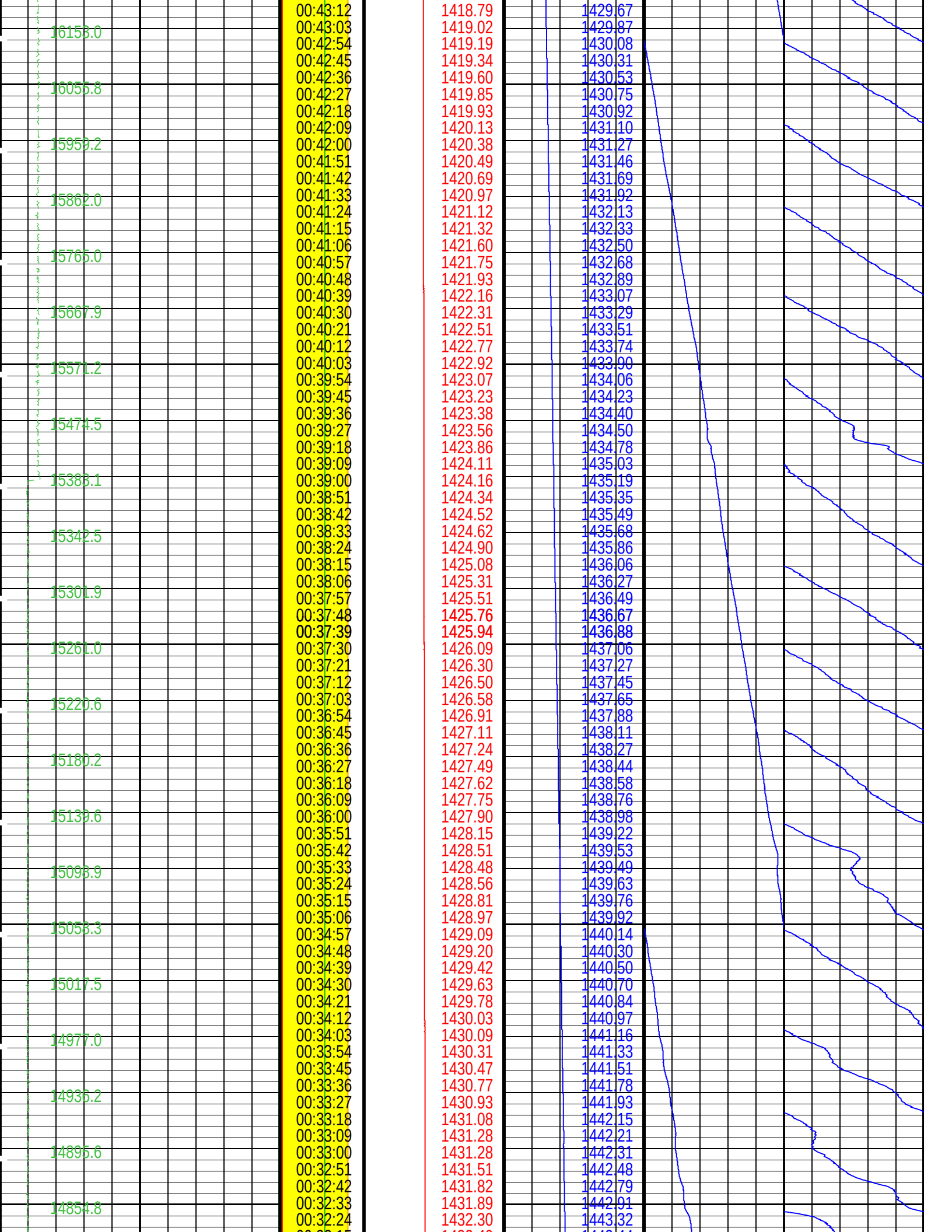
PIP SUMMARY										
Time Mark Every 60 S										
MRPOUD Hydraulic Pump Output Volume (POUDPV) 0-----1000 (C3)			MRSC 2 Valve Position (VP2) (----) -5 250							
			MRSC 1 Valve Position (VP1) (----) -5 250							
MRPOUD Motor Current (POUDMC) 0 (AMPS) 20			MRPOUD Solenoid 3 Status (POUDS3) 5 (----) 0		MRPA Strain Gauge Pressure (PASG) (PSIG)		MRPA Quartz Gauge Pressure (PAQP) (PSIA)			
PO Volume (POUDCV) (----)			Elapsed Time (ETIM) (S)		MRPA Strain Gauge Pressure (PASG) 0 (PSIG) 1000		MRPA Quartz Gauge Pressure (PAQP) 0 (PSIA) 100		MRPA Quartz Gauge Pressure (PAQP) 0 (PSIA) 10	
								MRPA Quartz Gauge Pressure (PAQP) 0 (PSIA) 1		
49490.0		01:31:03		1449.49		1459.94				
		01:30:54		1449.39		1459.89				
		01:30:45		1449.29		1459.80				
49490.0		01:30:36		1449.19		1459.71				
		01:30:27		1449.01		1459.56				
		01:30:18		1448.78		1459.37				
		01:30:09		1448.19		1458.76				
49426.2		01:30:00		1443.31		1454.98				
		01:29:51		1447.45		1458.24				
		01:29:42		1447.53		1458.20				
49350.1		01:29:33		1447.45		1458.15				
		01:29:24		1447.35		1458.10				
		01:29:15		1447.42		1458.05				
49350.1		01:29:06		1447.30		1457.99				
		01:28:57		1447.35		1457.93				
		01:28:48		1447.32		1457.85				
		01:28:39		1447.22		1457.79				
49350.1		01:28:30		1447.09		1457.68				
		01:28:21		1446.89		1457.54				
		01:28:12		1447.12		1457.94				
49350.1		01:28:03		1447.96		1458.77				
		01:27:54		1448.58		1459.15				
		01:27:45		1448.78		1459.36				
		01:27:36		1449.14		1459.90				
49350.1		01:27:27		1449.42		1460.09				
		01:27:18		1449.42		1460.09				

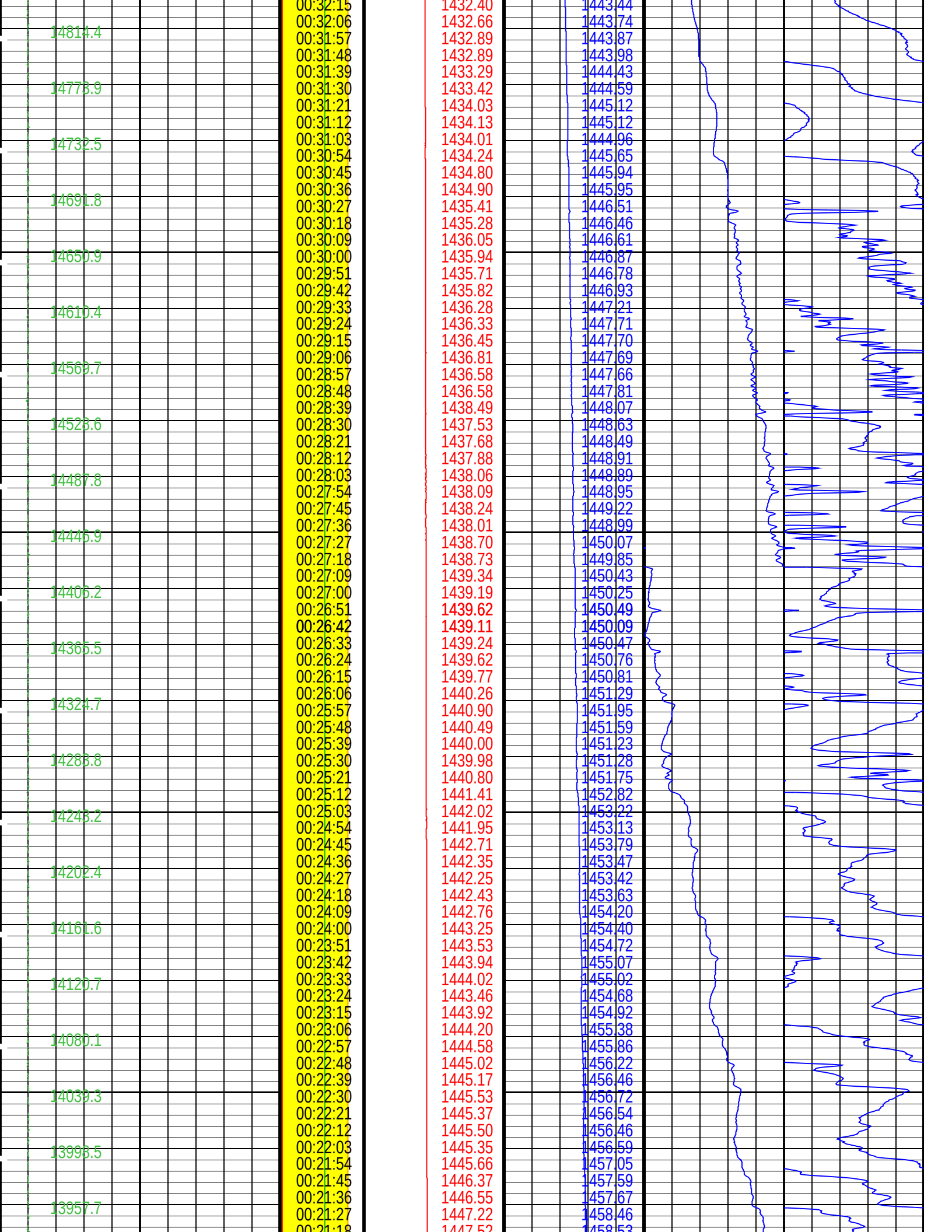


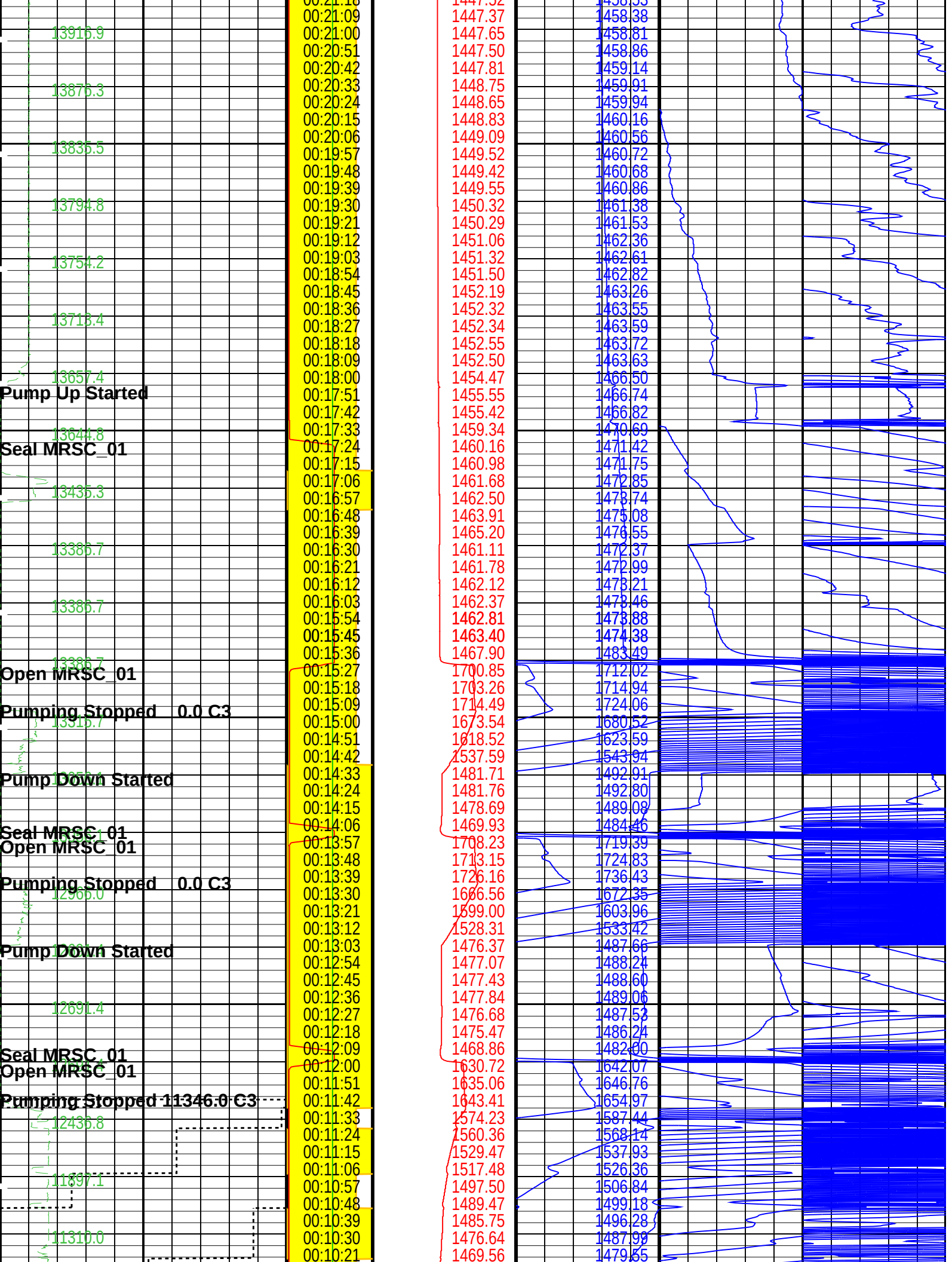


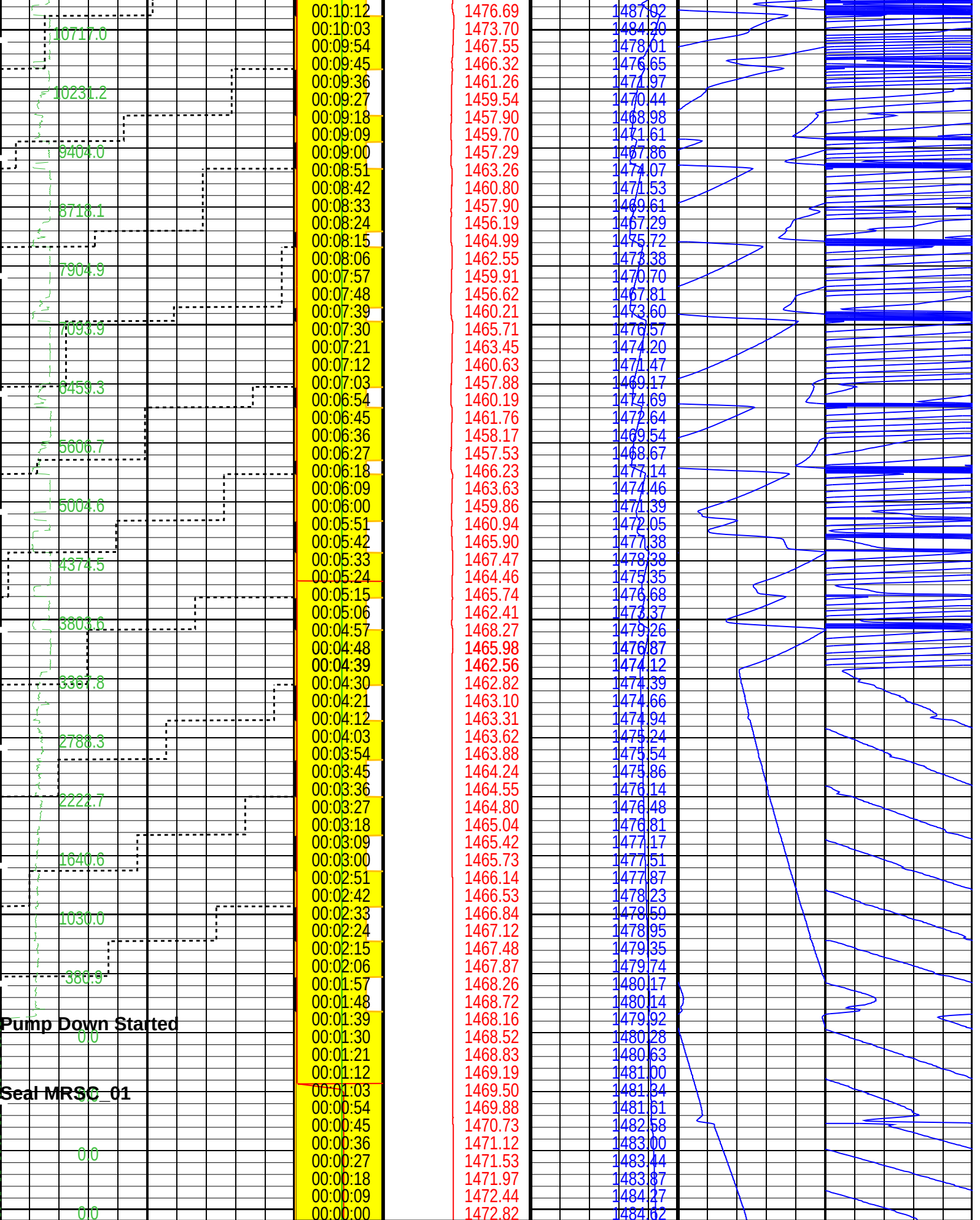












MRPOUD Motor Current (POUDMC) 0 (AMPS) 20		MRPOUD Solenoid 3 Status (POUDS3) 5 (----) 0	MRPA Strain Gauge Pressure (PASG) (PSIG)	MRPA Quartz Gauge Pressure (PAQP) (PSIA)	
MRPOUD Hydraulic Pump Output Volume (POUDPV) 0 (C3) 1000		MRSC 1 Valve Position (VP1) (----) -5 250			
		MRSC 2 Valve Position (VP2) (----) -5 250			

PIP SUMMARY

Time Mark Every 60 S

Parameters

DLIS Name	Description	Value
MRPA: Dual Packer Module (MRPA)		
PDCO	Probe Depth Correction Offset	0 FT
QGCA	Quartz Gauge Pressure Correction Applied	BOTH
QGDA	Quartz Gauge Deviation Angle	0 DEG
QGFD	Quartz Gauge Flow Line Density	1 G/C3
MRSC_01: Sample Chamber Module (MRSC) 01		
PDCO	Probe Depth Correction Offset	0 FT
MRPO_UD: Dual Up-down Pumpout Module (MRPOUD)		
PDCO	Probe Depth Correction Offset	0 FT
POUDAVHCC	MRPOUD Apply Volume Half Cycle Correction	NO
POUDAVOPC	MRPOUD Apply Volume Over Pressure Correction	NO
POUDAVSC	MRPOUD Apply Volume Stroke Correction	YES
POUDDISPVOL	MRPOUD Displacement Unit Stroke Volume	366
POUDFIXDISP	MRPOUD Fixed Displacement Pump Displacement Per Revolution	0.9756
POUDHCPRLVL	MRPOUD Half-cycle Correction Pressure Level	450 PSIG
POUDOPCLVL	MRPOUD Over Pressure Correction Level	3800 PSIG
POUDPMPTYP	MRPOUD Hydraulic Pump Type	VARIABLE_DISPLACEMENT
MRSC_02: Sample Chamber Module (MRSC) 02		
PDCO	Probe Depth Correction Offset	0 FT
MRPC: Power Cartridge		
PDCO	Probe Depth Correction Offset	0 FT

Format: MRPA_STATION_LOG_QG Vertical Scale: 1" per 60S

Graphics File Created: 20-Oct-2011 16:47

OP System Version: 19C0-187

MRPA	HPS-5108-MDT_b	MRSC_01	HPS-5108-MDT_b
MRPO_UD	HPS-5108-MDT_b	MRSC_02	HPS-5108-MDT_b
MRPC	HPS-5108-MDT_b	SGT-L	19C0-187
TCC-BF	19C0-187		

Output DLIS Files

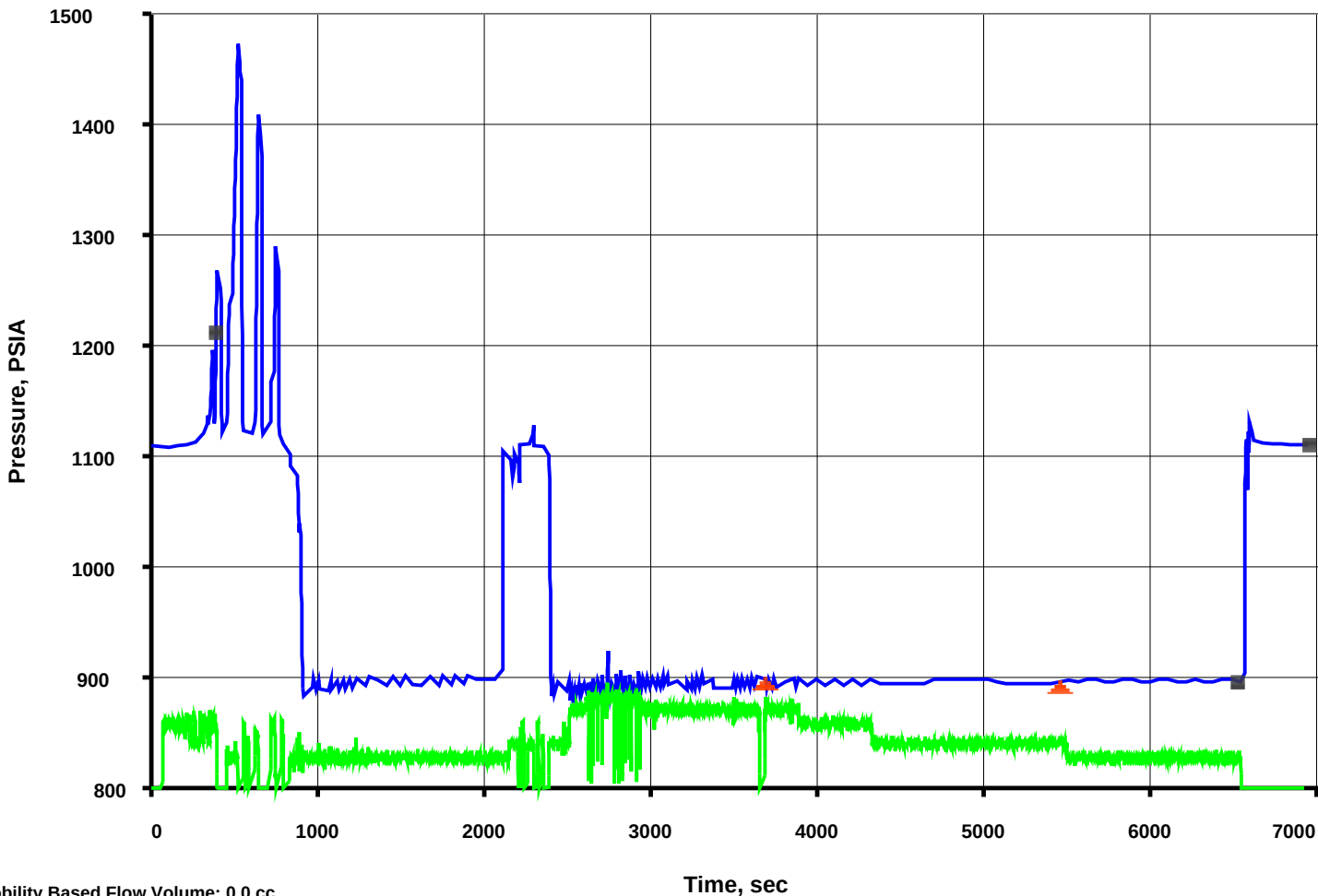
DEFAULT	MDT_183LTP	FN:276	PRODUCER	20-Oct-2011 16:47
BACKUP	MDT_183LTP	FN:277	PRODUCER	20-Oct-2011 16:50

Schlumberger

Mini DST
2325.0 ft

File 186
 15-Oct-2011
 SANDIA TECHNOLOGIES, LLC
 WILDCAT
 NYSTA TANDEM LOT 1

Normal Pretest – Standard packer
 Mud Pressure before test, PSIA: 1212.52
 Mud Pressure after test, PSIA: 1110.71
 Last build-up pressure, PSIA: 896.3



T0: 5444.4sec Production time: 1760.4sec

Mobility Based Flow Volume: 0.0 cc
 Total Pretest Volume: 0.0 cc - MRPA- PAQP Resolution: 0.010psi

Company: SANDIA TECHNOLOGIES, LLC Well: NYSTA TANDEM LOT 1

Output DLIS Files

DEFAULT	MDT_186LTP	FN:282	PRODUCER	20-Oct-2011 18:33	2325.0 FT
BACKUP	MDT_186LTP	FN:283	PRODUCER	20-Oct-2011 18:36	2325.0 FT

Elapsed Time (s)	Event Summary
6547.2	Open Sample Chamber Module 1 (1 Gallon, Through-Wire, H2S), sample number = 46
6528.6	Pumping Stopped 41724.0 C3 Dual Up-down Pumpout Module (MRPOUD)
3840.3	Open Sample Chamber Module 2 (1 Gallon, H2S), sample number = 45
3830.1	Seal Sample Chamber Module 2 (1 Gallon, H2S)
3674.7	Pump Up Started Dual Up-down Pumpout Module (MRPOUD)
3667.2	Open Sample Chamber Module 2 (1 Gallon, H2S), sample number = 45
3658.5	Pumping Stopped 31476.0 C3 Dual Up-down Pumpout Module (MRPOUD)
3646.2	Open Sample Chamber Module 2 (1 Gallon, H2S), sample number = 45
3638.1	Seal Sample Chamber Module 2 (1 Gallon, H2S)
3498.9	Open Sample Chamber Module 2 (1 Gallon, H2S), sample number = 44
3485.7	Seal Sample Chamber Module 2 (1 Gallon, H2S)

3020.4	Open Sample Chamber Module 2 (1 Gallon, H2S), sample number = 42
3005.1	Seal Sample Chamber Module 2 (1 Gallon, H2S)
2728.5	Open Sample Chamber Module 2 (1 Gallon, H2S), sample number = 41
2721.6	Seal Sample Chamber Module 2 (1 Gallon, H2S)
2480.4	Open Sample Chamber Module 2 (1 Gallon, H2S), sample number = 40
2434.5	Seal Sample Chamber Module 2 (1 Gallon, H2S)
2382.3	Pump Up Started Dual Up-down Pumpout Module (MRPOUD)
2367.9	Seal Sample Chamber Module 1 (1 Gallon, Through-Wire, H2S)
2299.2	Open Sample Chamber Module 1 (1 Gallon, Through-Wire, H2S), sample number = 40
2293.2	Pumping Stopped 366.0 C3 Dual Up-down Pumpout Module (MRPOUD)
2271.6	Seal Sample Chamber Module 1 (1 Gallon, Through-Wire, H2S)
2252.7	Pump Down Started Dual Up-down Pumpout Module (MRPOUD)
2205.3	Open Sample Chamber Module 1 (1 Gallon, Through-Wire, H2S), sample number = 39
2201.1	Pumping Stopped 13542.0 C3 Dual Up-down Pumpout Module (MRPOUD)
2189.7	Open Sample Chamber Module 2 (1 Gallon, H2S), sample number = 38
2153.1	Seal Sample Chamber Module 1 (1 Gallon, Through-Wire, H2S)
2136.6	Open Sample Chamber Module 2 (1 Gallon, H2S), sample number = 37
2117.1	Seal Sample Chamber Module 2 (1 Gallon, H2S)
2100.9	Open Sample Chamber Module 1 (1 Gallon, Through-Wire, H2S), sample number = 36
2095.8	Open Sample Chamber Module 2 (1 Gallon, H2S), sample number = 36
2057.4	Seal Sample Chamber Module 2 (1 Gallon, H2S)
829.5	Pump Up Started Dual Up-down Pumpout Module (MRPOUD)
811.2	Seal Sample Chamber Module 1 (1 Gallon, Through-Wire, H2S)
762.9	Open Sample Chamber Module 1 (1 Gallon, Through-Wire, H2S), sample number = 35
750.3	Pumping Stopped 366.0 C3 Dual Up-down Pumpout Module (MRPOUD)
714.3	Pump Down Started Dual Up-down Pumpout Module (MRPOUD)
687.3	Seal Sample Chamber Module 1 (1 Gallon, Through-Wire, H2S)
658.8	Open Sample Chamber Module 1 (1 Gallon, Through-Wire, H2S), sample number = 34
646.5	Pumping Stopped 0.0 C3 Dual Up-down Pumpout Module (MRPOUD)
621.0	Pump Down Started Dual Up-down Pumpout Module (MRPOUD)
590.4	Seal Sample Chamber Module 1 (1 Gallon, Through-Wire, H2S)
540.3	Open Sample Chamber Module 1 (1 Gallon, Through-Wire, H2S), sample number = 33
521.1	Pumping Stopped 732.0 C3 Dual Up-down Pumpout Module (MRPOUD)
451.5	Pump Down Started Dual Up-down Pumpout Module (MRPOUD)
427.5	Seal Sample Chamber Module 1 (1 Gallon, Through-Wire, H2S)
417.6	Open Sample Chamber Module 1 (1 Gallon, Through-Wire, H2S), sample number = 32
399.3	Pumping Stopped 5856.0 C3 Dual Up-down Pumpout Module (MRPOUD)
68.7	Pump Down Started Dual Up-down Pumpout Module (MRPOUD)

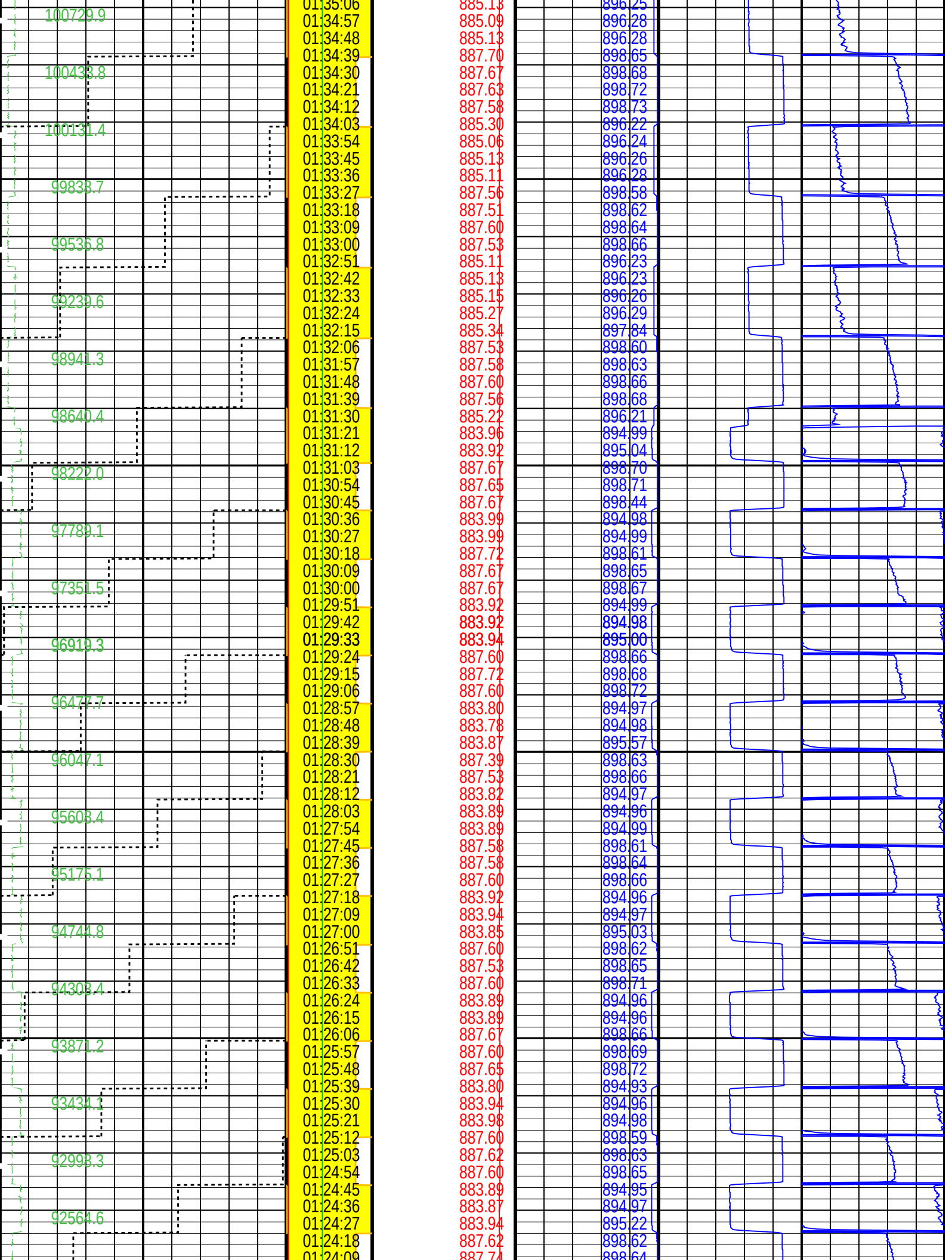
PIP SUMMARY

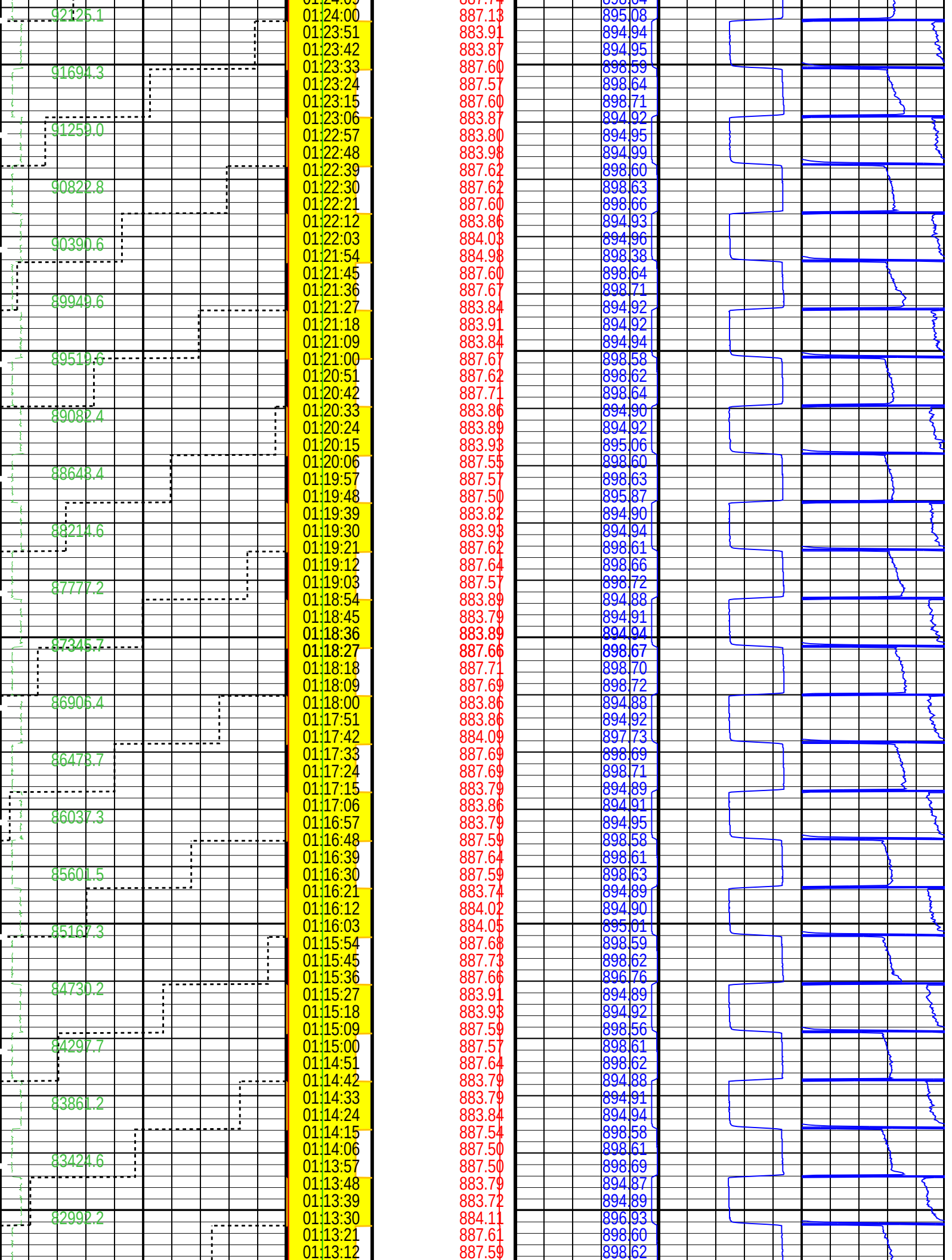
Time Mark Every 60 S

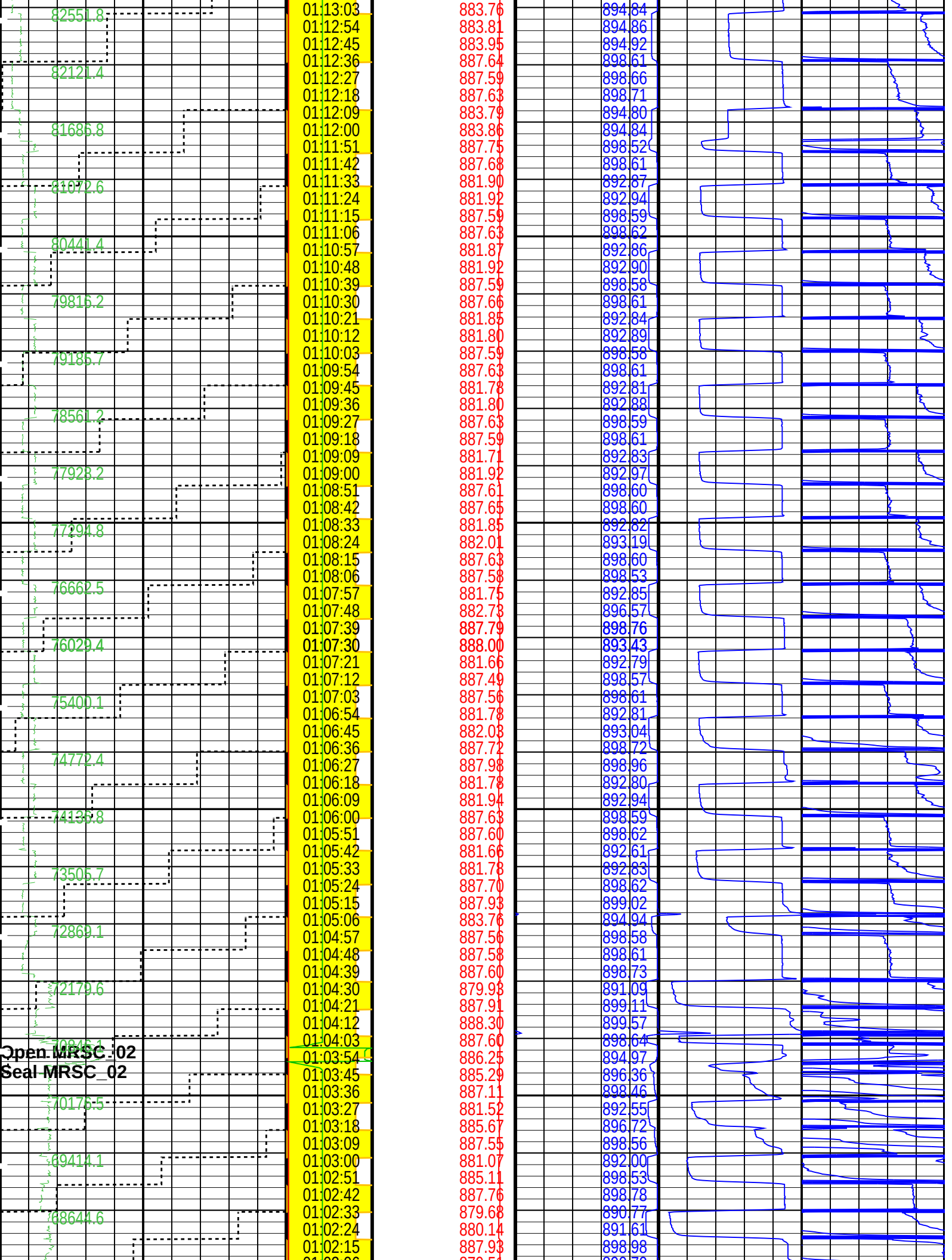
		MRSC 2 Valve Position (VP2) (----)		
		-5250		
MRPOUD Hydraulic Pump Output Volume (POUDPV)		MRSC 1 Valve Position (VP1) (----)		
0-----1000 (C3)		-5250		
MRPOUD Motor Current (POUDMC)		MRPOUD Solenoid 3 Status	MRPA Strain Gauge	MRPA Quartz Gauge Pressure

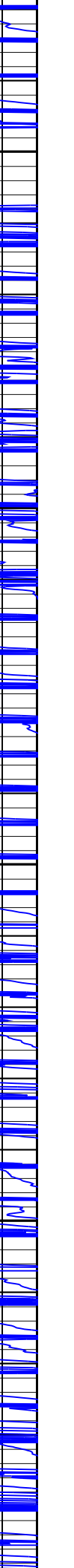
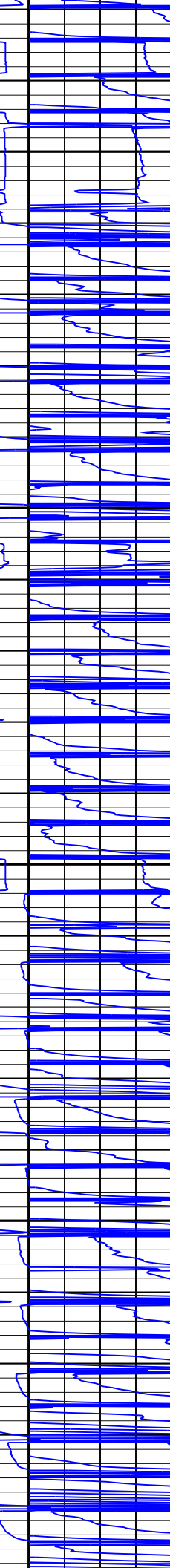
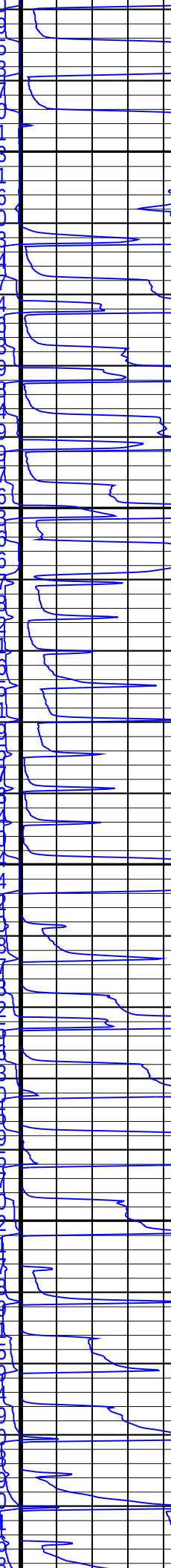
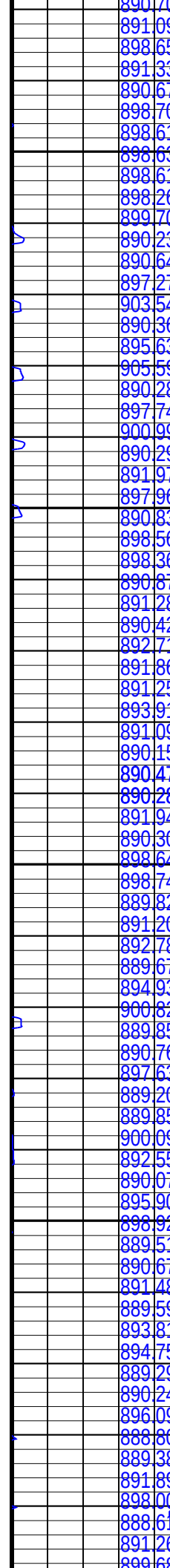
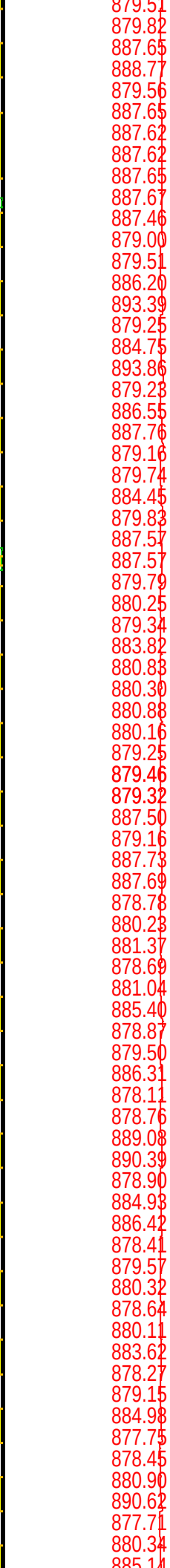
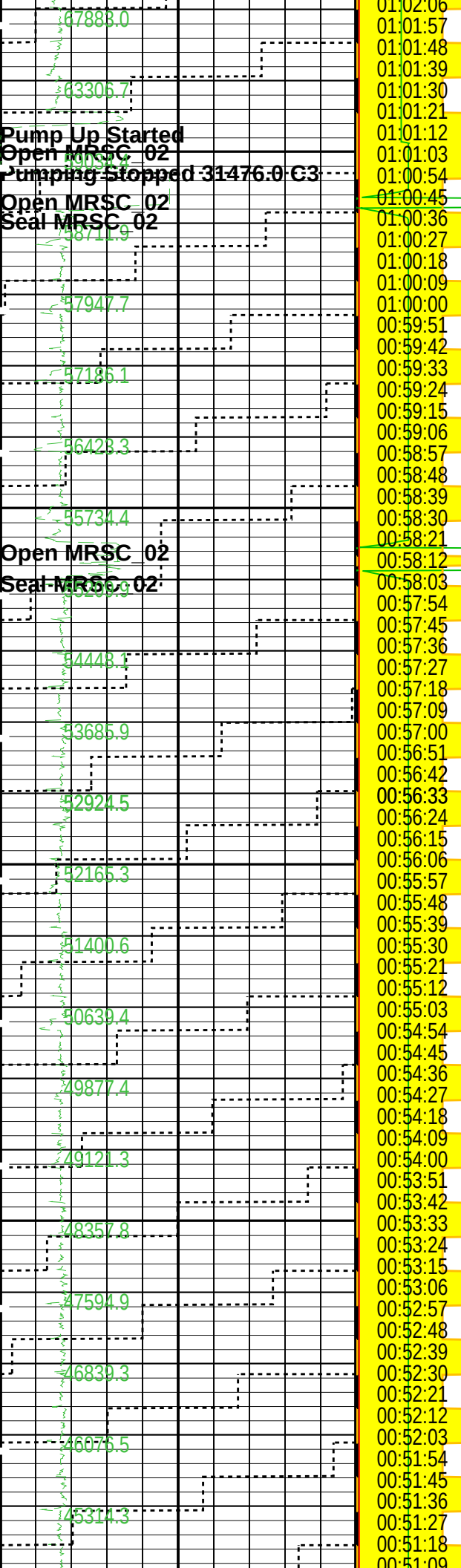
Current (PODCV) (AMPS) 20	Status (POUDS3) 5 (----) 0	Pressure (PASC) (PSIG)	Gauge Pressure (PAQP) (PSIA)		MRPA Quartz Gauge Pressure (PAQP) (PSIA)		MRPA Quartz Gauge Pressure (PAQP) (PSIA)		MRPA Quartz Gauge Pressure (PAQP) (PSIA)	
			MRPA Strain Gauge Pressure (PASG) 0 (PSIG) 1000		MRPA Quartz Gauge Pressure (PAQP) 0 (PSIA) 100		MRPA Quartz Gauge Pressure (PAQP) 0 (PSIA) 10		MRPA Quartz Gauge Pressure (PAQP) 0 (PSIA) 1	
PO Volume (PODCV) (----)	Elapsed Time (ETIM) (S)									
	01:55:48	1099.14		1110.69						
	01:55:39	1099.19		1110.71						
108952.5	01:55:30	1099.26		1110.74						
	01:55:21	1099.33		1110.79						
	01:55:12	1099.41		1110.81						
108952.5	01:55:03	1099.48		1110.85						
	01:54:54	1099.55		1110.88						
	01:54:45	1099.65		1110.90						
108952.5	01:54:36	1099.67		1110.94						
	01:54:27	1099.77		1110.97						
	01:54:18	1099.72		1110.98						
	01:54:09	1099.74		1111.02						
108952.5	01:54:00	1099.79		1111.06						
	01:53:51	1099.87		1111.10						
	01:53:42	1099.84		1111.14						
108952.5	01:53:33	1099.94		1111.19						
	01:53:24	1100.04		1111.25						
	01:53:15	1100.08		1111.31						
108952.5	01:53:06	1100.13		1111.34						
	01:52:57	1100.21		1111.34						
	01:52:48	1100.13		1111.34						
	01:52:39	1100.11		1111.35						
108952.5	01:52:30	1100.25		1111.37						
	01:52:21	1100.28		1111.41						
	01:52:12	1100.25		1111.46						
108952.5	01:52:03	1100.42		1111.52						
	01:51:54	1100.52		1111.59						
	01:51:45	1100.67		1111.67						
108952.5	01:51:36	1100.74		1111.79						
	01:51:27	1100.93		1111.92						
	01:51:18	1101.03		1112.08						
	01:51:09	1101.27		1112.25						
108952.5	01:51:00	1101.57		1112.46						
	01:50:51	1101.78		1112.70						
	01:50:42	1102.05		1112.96						
108952.5	01:50:33	1102.32		1113.24						
	01:50:24	1102.49		1113.53						
	01:50:15	1102.78		1113.79						
108952.5	01:50:06	1102.80		1116.42						
	01:49:57	1111.29		1121.99						
	01:49:48	1116.26		1127.58						
	01:49:39	1121.73		1130.08						
108952.5	01:49:30	1123.27		1081.86						
	01:49:21	1106.08		1116.56						
	01:49:12	940.92		904.58						
Open MRSC 01	01:49:03	887.52		898.61						
	01:48:54	887.52		898.56						
Pumping Stopped 41724.0 C3	01:48:45	885.19		896.27						
	01:48:36	885.19		896.29						
108774.4	01:48:27	885.12		896.32						
	01:48:18	885.37		896.31						
	01:48:09	887.64		898.62						
108477.1	01:48:00	887.59		898.67						
	01:47:51	887.57		898.69						
	01:47:42	887.64		898.73						
108175.7	01:47:33	885.26		896.26						
	01:47:24	885.14		896.28						
	01:47:15	885.16		896.32						
107883.0	01:47:06	885.23		896.31						
	01:46:57	887.63		898.62						
	01:46:48	887.54		898.65						
	01:46:39	887.66		898.67						
107581.9	01:46:30	887.66		898.70						
	01:46:21	885.25		896.26						
	01:46:12	885.16		896.27						

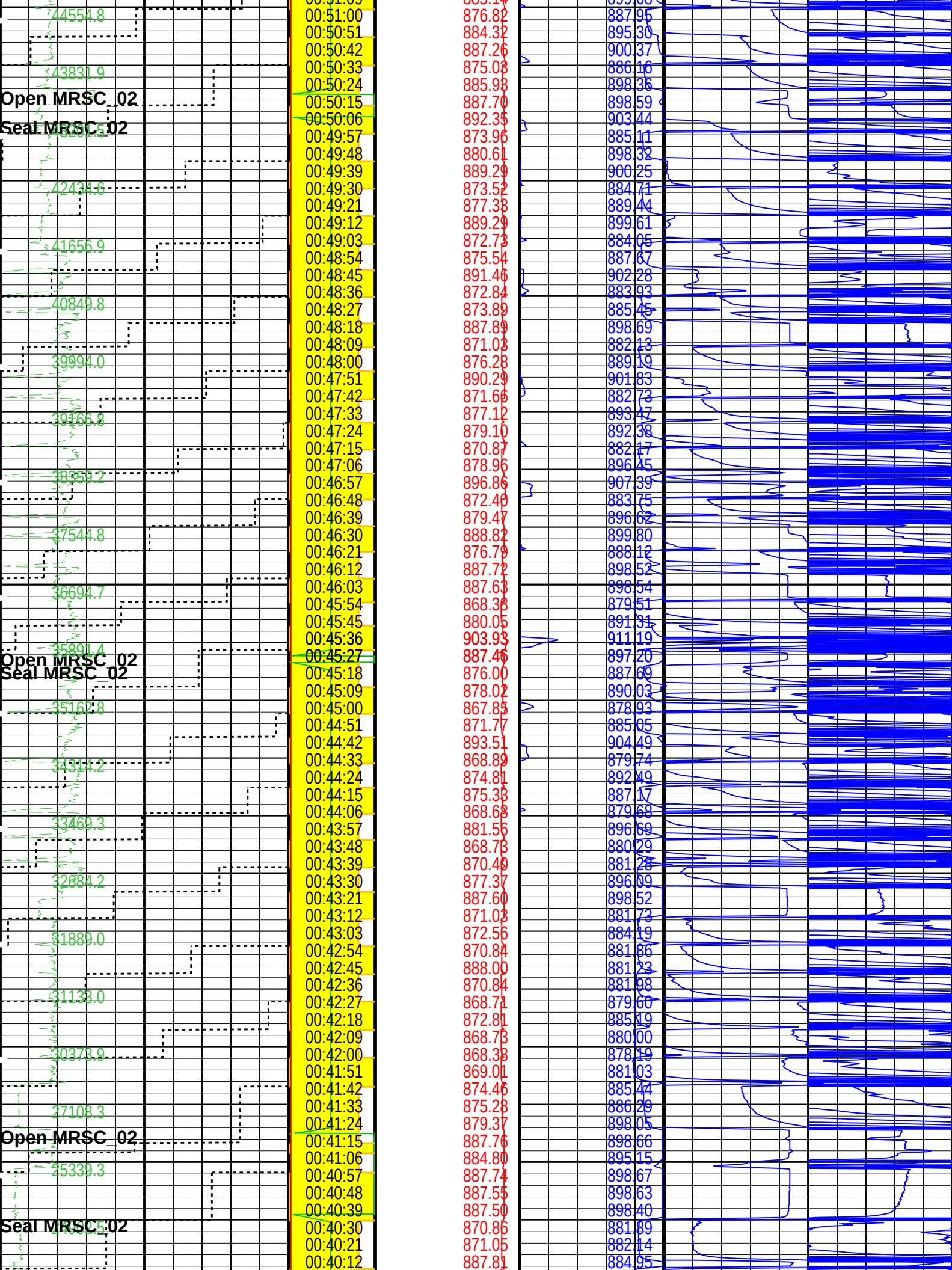
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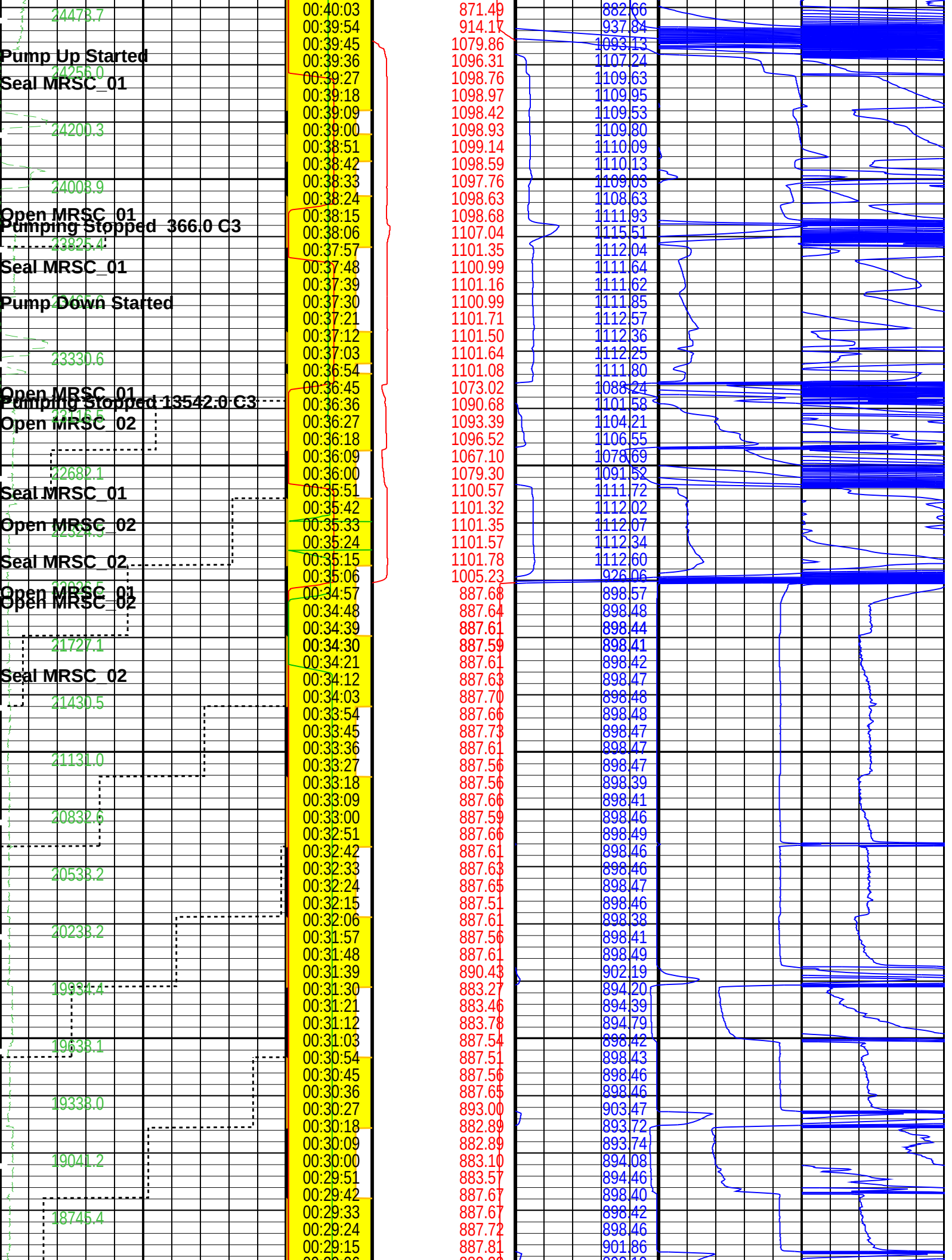


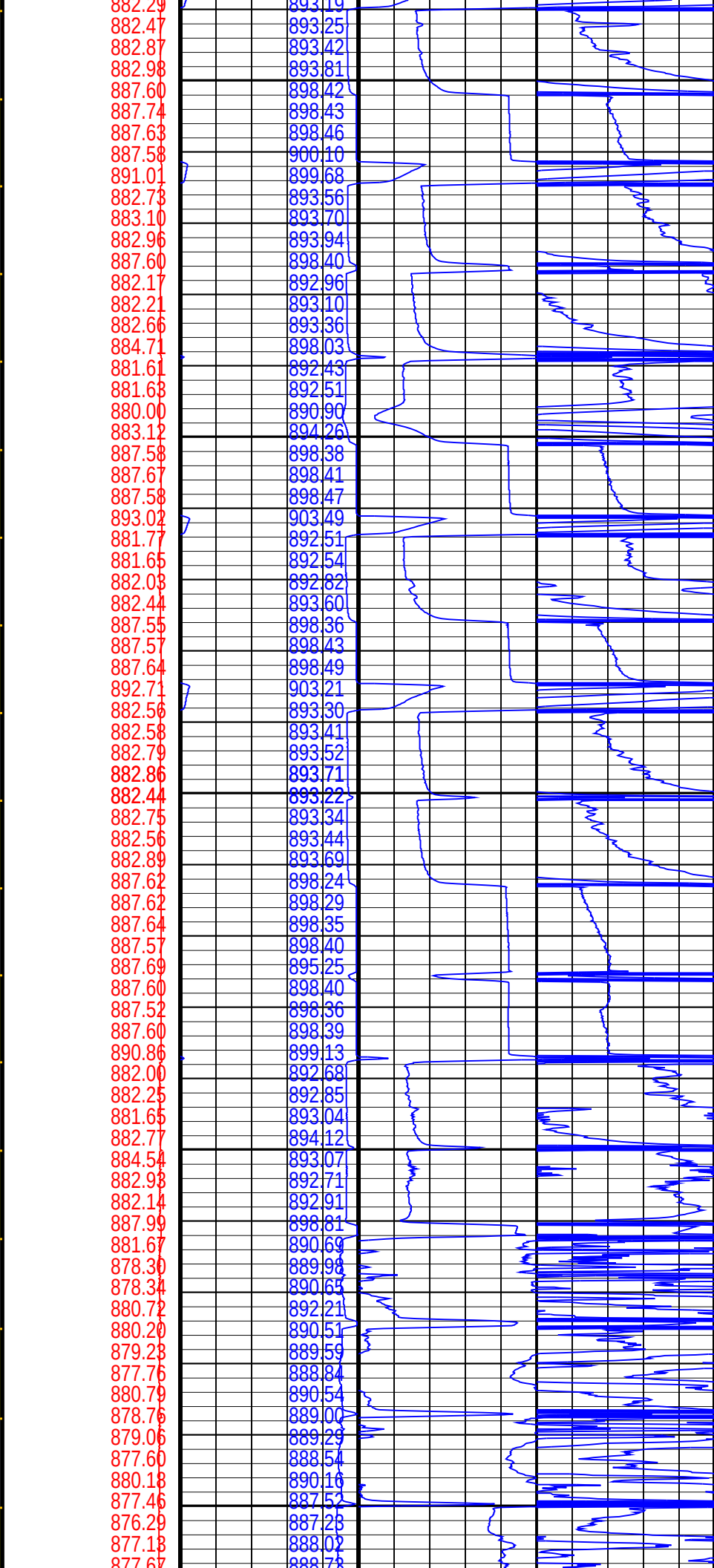
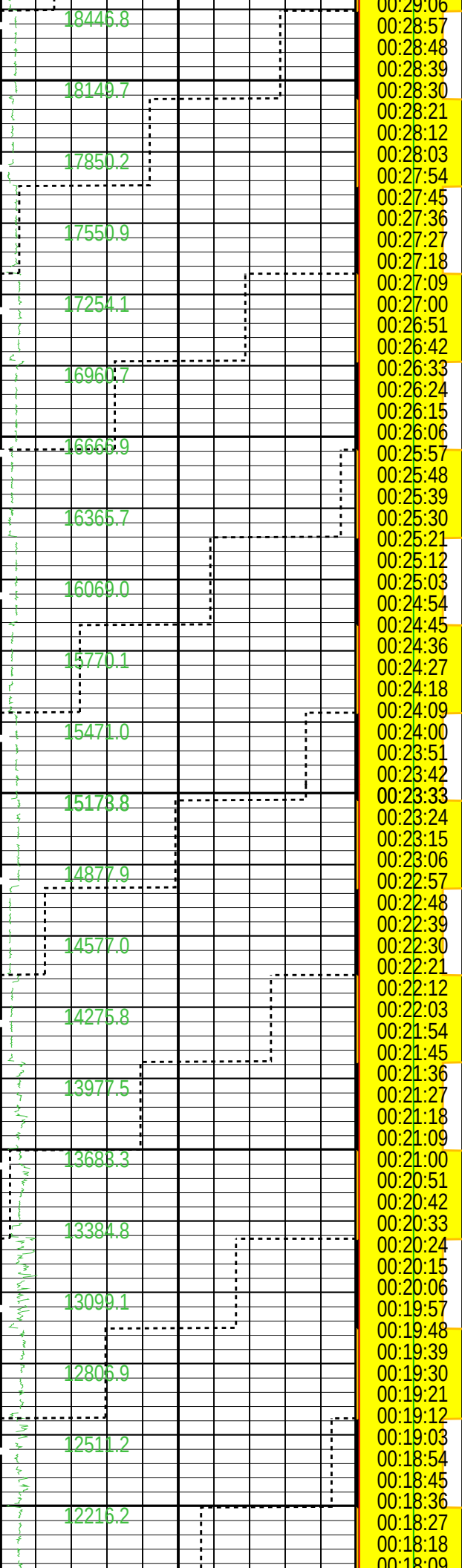


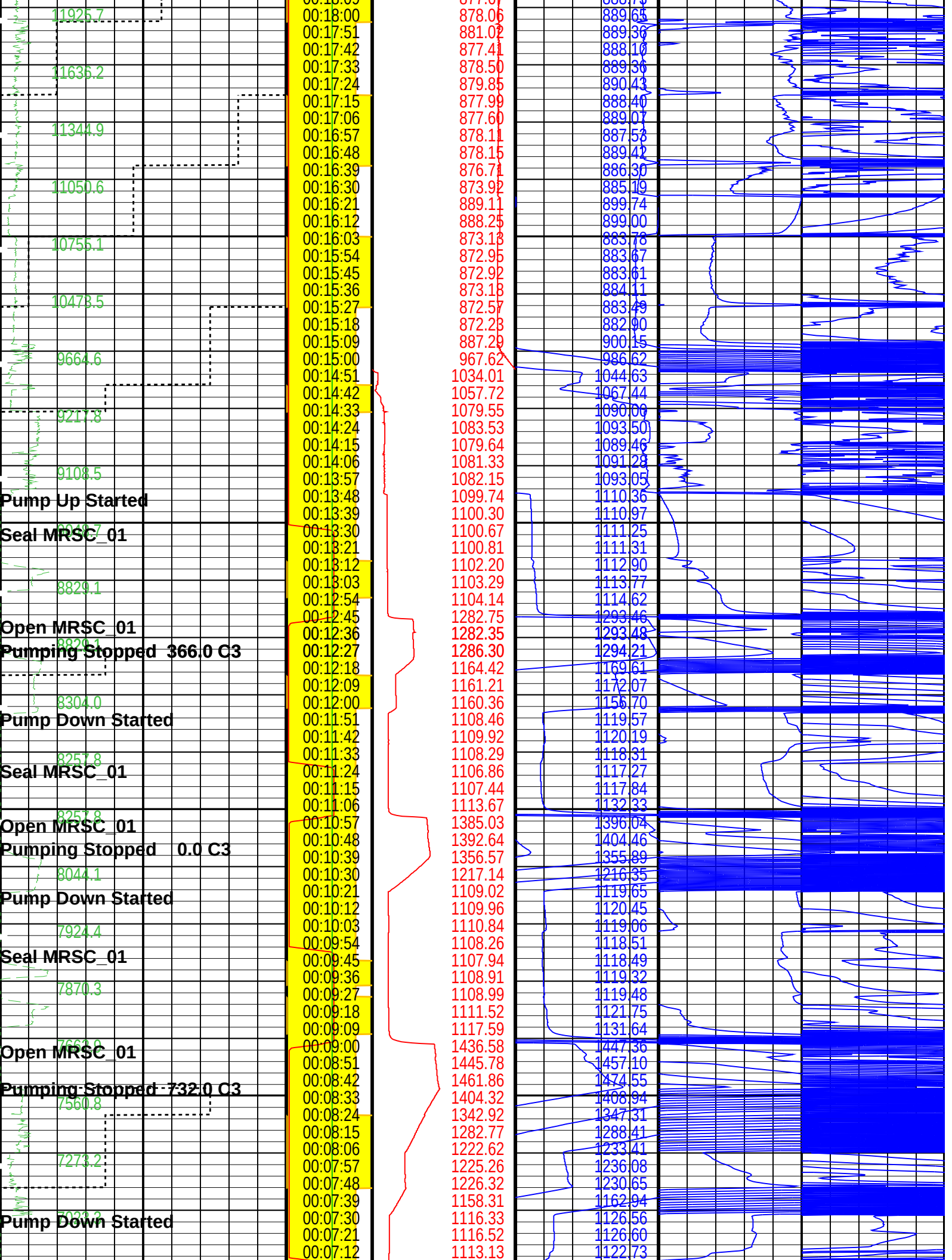


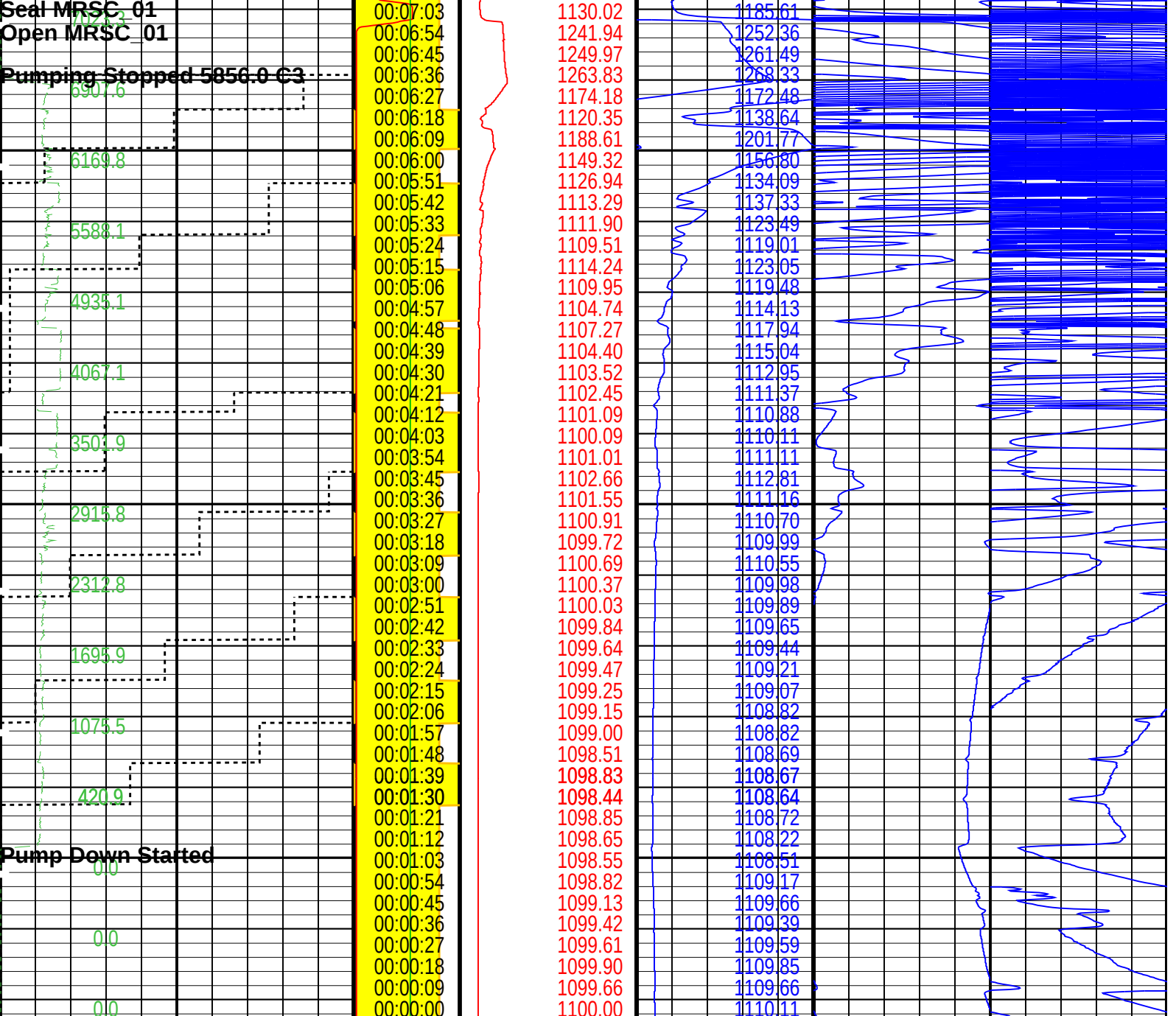












PO Volume (POUDCV) (----)		Elapsed Time (ETIM) (S)	MRPA Strain Gauge Pressure (PASG) (PSIG) 1000	MRPA Quartz Gauge Pressure (PAQP) (PSIA) 100	MRPA Quartz Gauge Pressure (PAQP) (PSIA) 10	MRPA Quartz Gauge Pressure (PAQP) (PSIA) 1
MRPOUD Motor Current (POUDMC) (AMPS) 20		MRPOUD Solenoid 3 Status (POUDS3) (----) 0	MRPA Strain Gauge Pressure (PASG) (PSIG)	MRPA Quartz Gauge Pressure (PAQP) (PSIA)		
MRPOUD Hydraulic Pump Output Volume (POUDPV) (C3) 1000	MRSC 1 Valve Position (VP1) (----) -5 250					
	MRSC 2 Valve Position (VP2) (----) -5 250					

Parameters			
DLIS Name		Description	Value
MRPA: Dual Packer Module (MRPA)			
PDCO		Probe Depth Correction Offset	0 FT
QGCA		Quartz Gauge Pressure Correction Applied	BOTH
QGDA		Quartz Gauge Deviation Angle	0 DEG
QGFD		Quartz Gauge Flow Line Density	1 G/C3
MRSC_01: Sample Chamber Module (MRSC) 01			
PDCO		Probe Depth Correction Offset	0 FT
MRPO_UD: Dual Up-down Pumpout Module (MRPOUD)			
PDCO		Probe Depth Correction Offset	0 FT
POUDAVHCC		MRPOUD Apply Volume Half Cycle Correction	NO
POUDAVOPC		MRPOUD Apply Volume Over Pressure Correction	NO
POUDAVSC		MRPOUD Apply Volume Stroke Correction	YES
POUDDISPVOL		MRPOUD Displacement Unit Stroke Volume	366
POUDFIXDISP		MRPOUD Fixed Displacement Pump Displacement Per Revolution	0.9756
POUDHCPRVLV		MRPOUD Half-cycle Correction Pressure Level	450 PSIG
POUDOPCLVL		MRPOUD Over Pressure Correction Level	3800 PSIG
POUDPMPPTY		MRPOUD Hydraulic Pump Type	VARIABLE_DISPLACEMENT
MRSC_02: Sample Chamber Module (MRSC) 02			
PDCO		Probe Depth Correction Offset	0 FT
MRPC: Power Cartridge			
PDCO		Probe Depth Correction Offset	0 FT

Format: MRPA_STATION_LOG_QG

Vertical Scale: 1" per 60S

Graphics File Created: 20-Oct-2011 18:33

OP System Version: 19C0-187			
MRPA	HPS-5108-MDT_b	MRSC_01	HPS-5108-MDT_b
MRPO_UD	HPS-5108-MDT_b	MRSC_02	HPS-5108-MDT_b
MRPC	HPS-5108-MDT_b	SGT-L	19C0-187
TCC-BF	19C0-187		

Output DLIS Files			
DEFAULT	MDT_186LTP	FN:282	PRODUCER 20-Oct-2011 18:33
BACKUP	MDT_186LTP	FN:283	PRODUCER 20-Oct-2011 18:36



Correlation

MAXIS Field Log

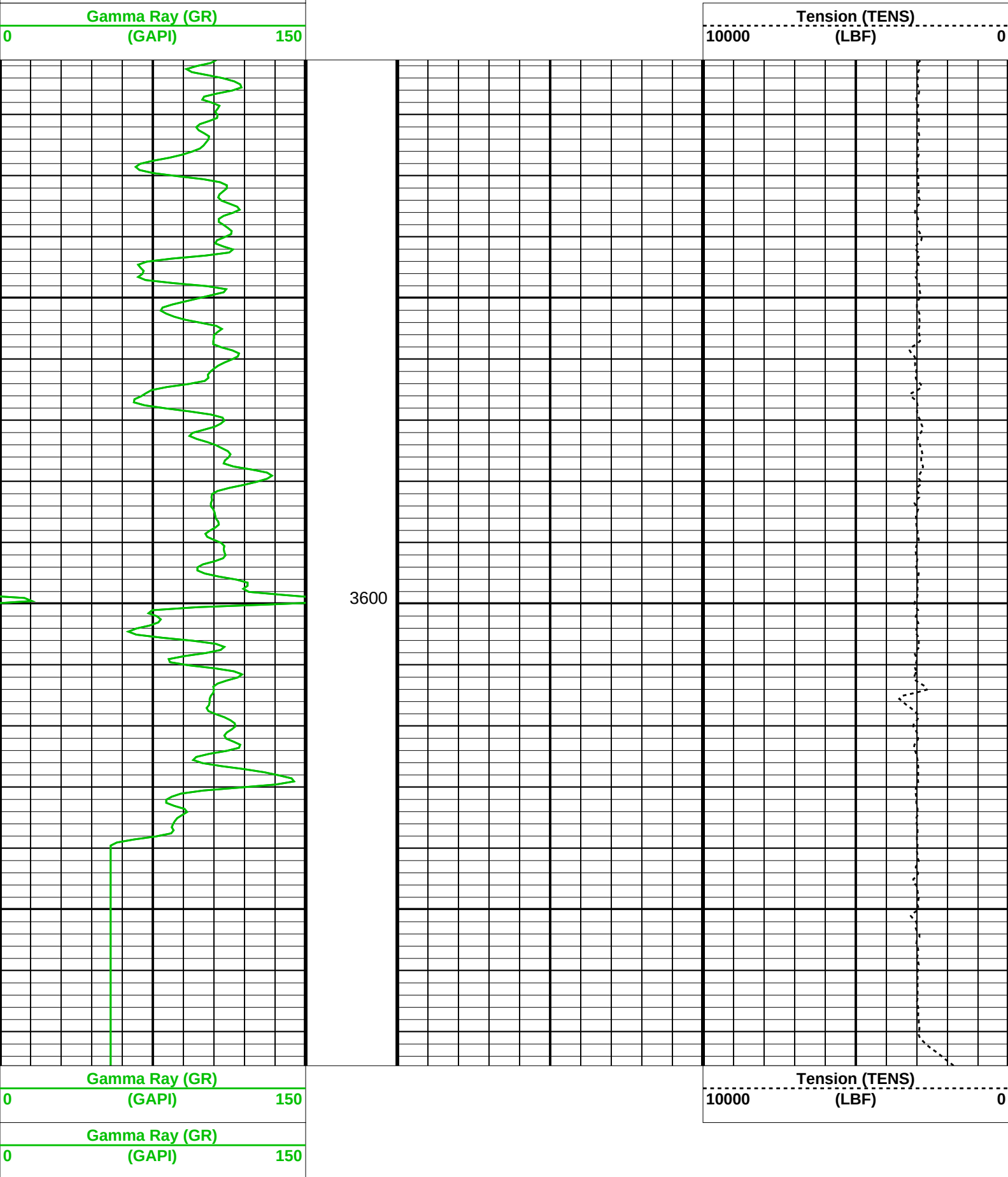
Company: SANDIA TECHNOLOGIES, LLC

Well: NYSTA TANDEM LOT 1

Output DLIS Files			
DEFAULT	MDT_175LUP	FN:260	PRODUCER 20-Oct-2011 10:02
BACKUP	MDT_175LUP	FN:261	PRODUCER 20-Oct-2011 10:06

OP System Version: 19C0-187			
MRPA	HPS-5108-MDT_b	MRSC_01	HPS-5108-MDT_b
MRPO_UD	HPS-5108-MDT_b	MRSC_02	HPS-5108-MDT_b
MRPC	HPS-5108-MDT_b	SGT-L	19C0-187
TCC-BF	19C0-187		

Gamma Ray (GR)	
0 (GAPI)	150



Parameters		
DLIS Name	Description	Value
PDCO	MRPA: Dual Packer Module (MRPA) Probe Depth Correction Offset	0 FT
PDCO	MRSC_01: Sample Chamber Module (MRSC) 01 Probe Depth Correction Offset	0 FT
	MRPO_UD: Dual Up-down Pumpout Module (MRPOUD)	

PDCO	MRSC_02: Sample Chamber Module (MRSC) 02	0	FT
PDCO	Probe Depth Correction Offset	0	FT
PDCO	MRPC: Power Cartridge	0	FT
PDCO	Probe Depth Correction Offset	0	FT
DORL	System and Miscellaneous	0.0	FT
DORL	Depth Offset for Repeat Analysis	0.0	FT

Format: CORRELATION Vertical Scale: 5" per 100' Graphics File Created: 20-Oct-2011 10:02

OP System Version: 19C0-187

MRPA	HPS-5108-MDT_b	MRSC_01	HPS-5108-MDT_b
MRPO_UD	HPS-5108-MDT_b	MRSC_02	HPS-5108-MDT_b
MRPC	HPS-5108-MDT_b	SGT-L	19C0-187
TCC-BF	19C0-187		

Output DLIS Files

DEFAULT	MDT_175LUP	FN:260	PRODUCER	20-Oct-2011 10:02
BACKUP	MDT_175LUP	FN:261	PRODUCER	20-Oct-2011 10:06

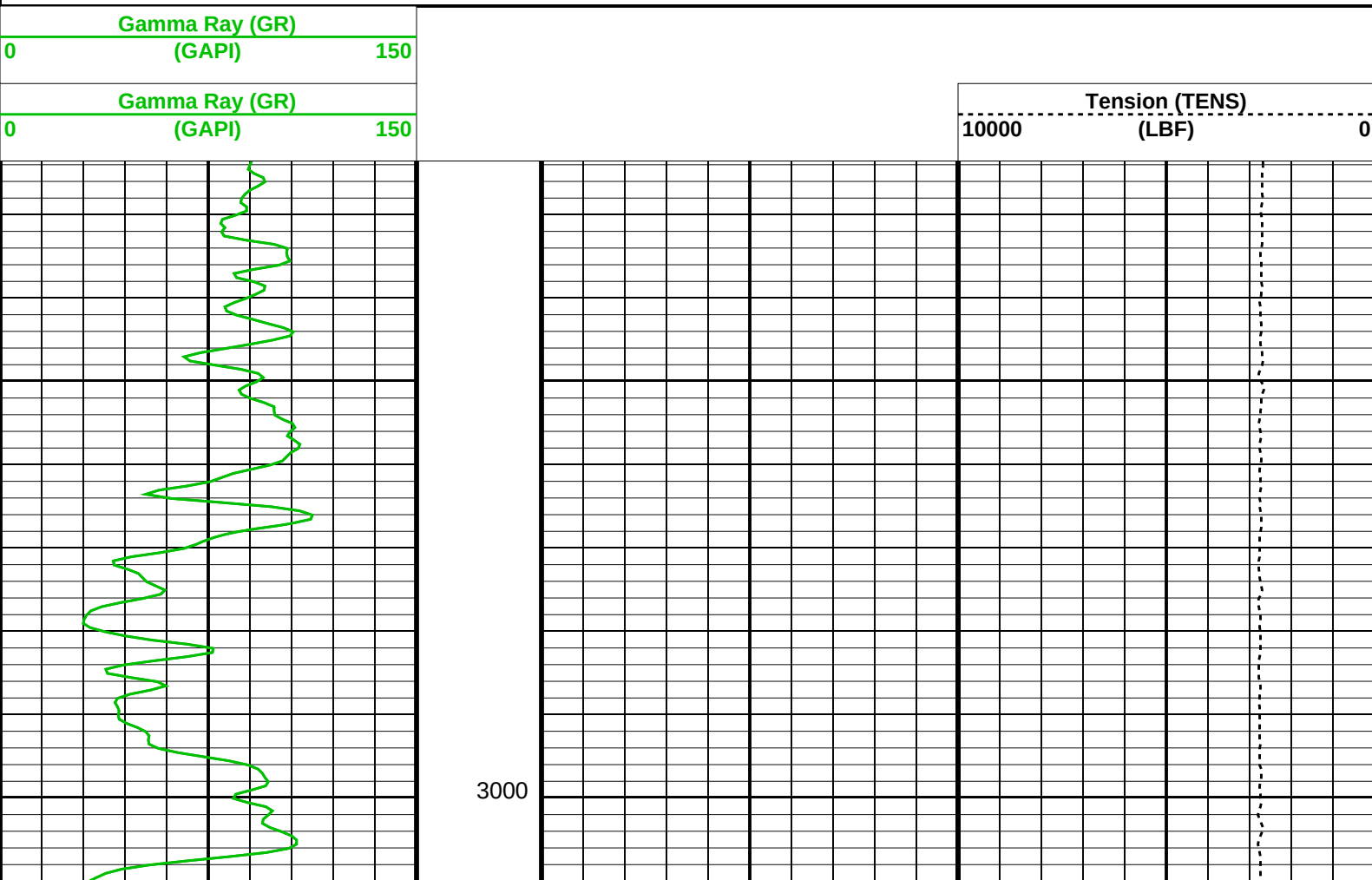
Company: SANDIA TECHNOLOGIES, LLC Well: NYSTA TANDEM LOT 1

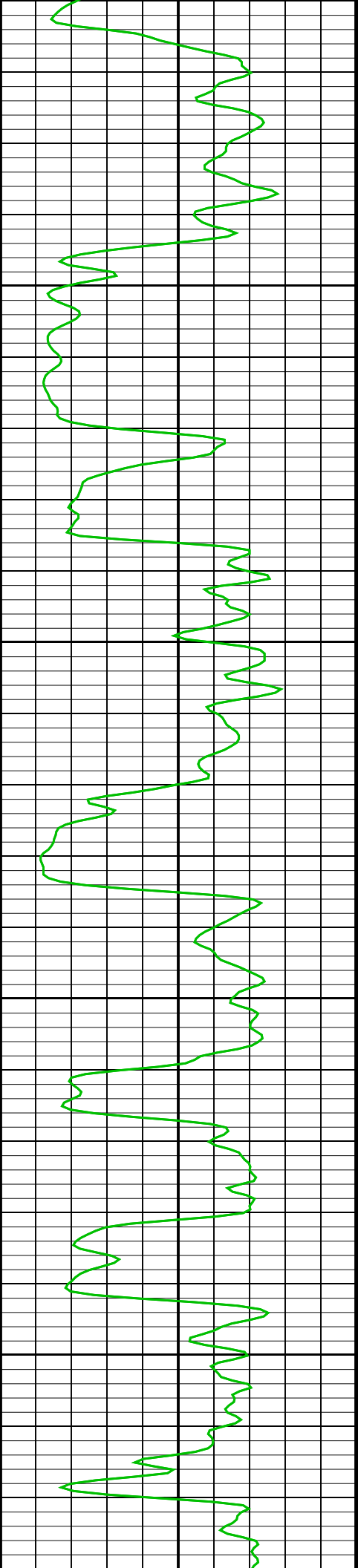
Output DLIS Files

DEFAULT	MDT_178LUP	FN:266	PRODUCER	20-Oct-2011 11:44	3353.5 FT	2923.5 FT
BACKUP	MDT_178LUP	FN:267	PRODUCER	20-Oct-2011 11:47	3353.5 FT	2923.5 FT

OP System Version: 19C0-187

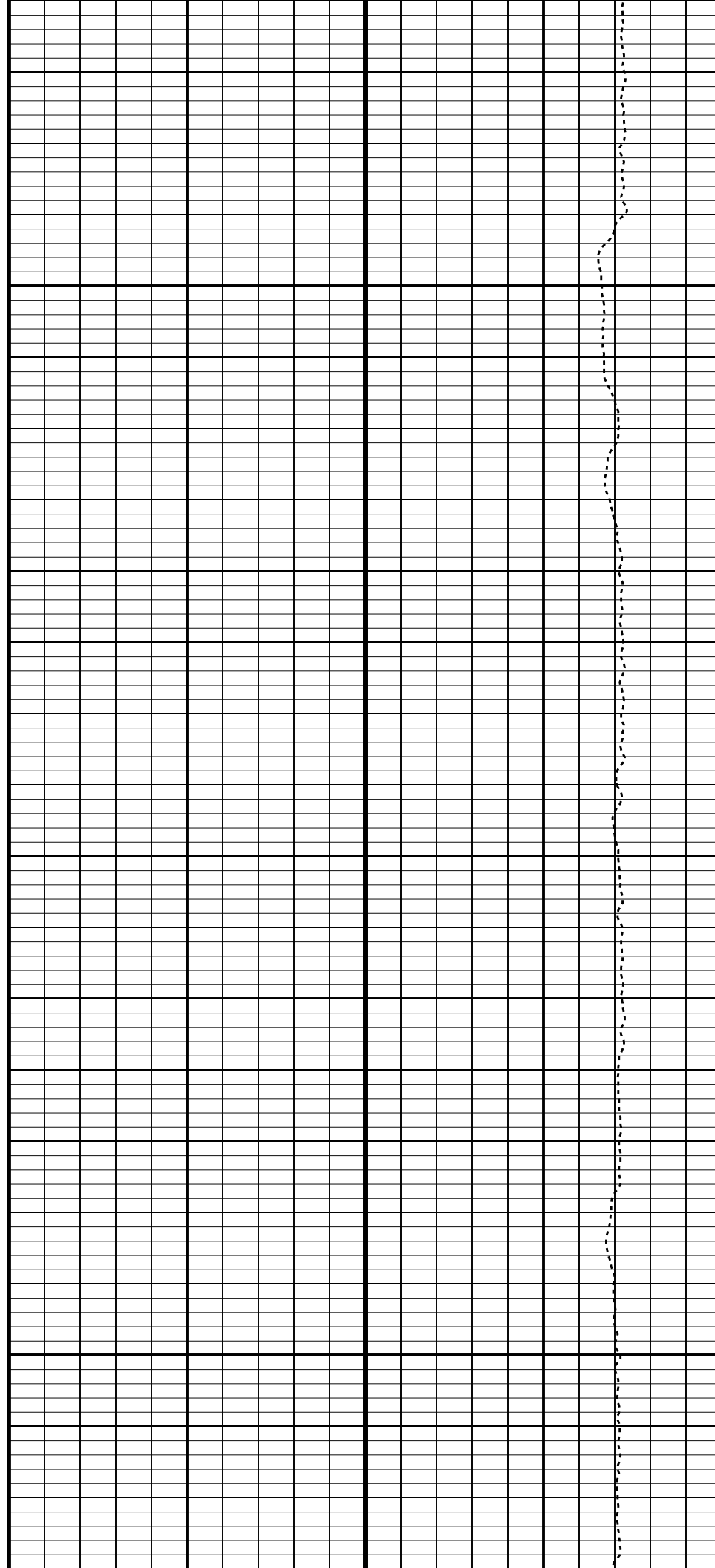
MRPA	HPS-5108-MDT_b	MRSC_01	HPS-5108-MDT_b
MRPO_UD	HPS-5108-MDT_b	MRSC_02	HPS-5108-MDT_b
MRPC	HPS-5108-MDT_b	SGT-L	19C0-187
TCC-BF	19C0-187		

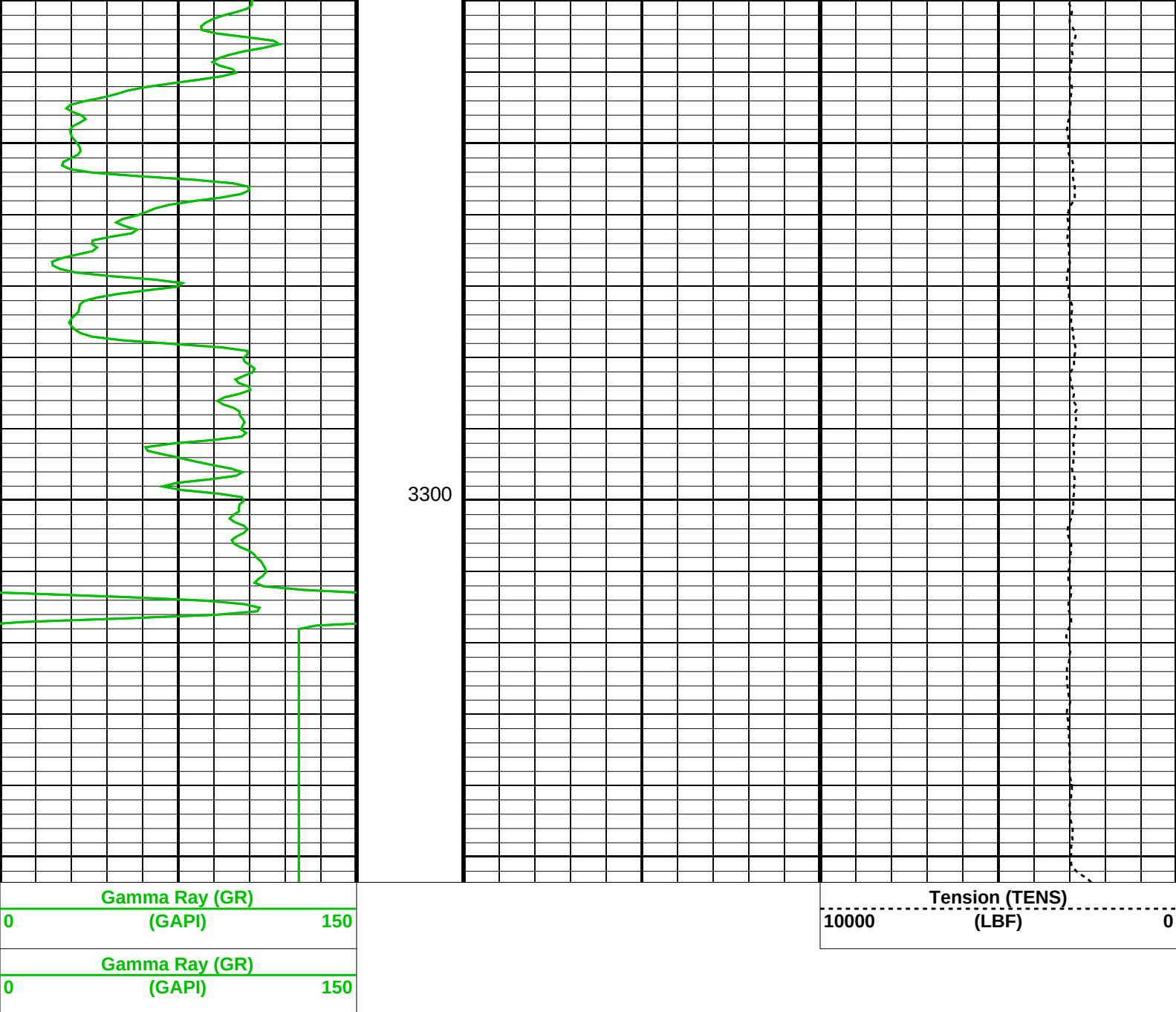




3100

3200





Parameters			
DLIS Name	Description	Value	
PDCO	MRPA: Dual Packer Module (MRPA) Probe Depth Correction Offset	0	FT
PDCO	MRSC_01: Sample Chamber Module (MRSC) 01 Probe Depth Correction Offset	0	FT
PDCO	MRPO_UD: Dual Up-down Pumpout Module (MRPOUD) Probe Depth Correction Offset	0	FT
PDCO	MRSC_02: Sample Chamber Module (MRSC) 02 Probe Depth Correction Offset	0	FT
PDCO	MRPC: Power Cartridge Probe Depth Correction Offset	0	FT
PDCO	System and Miscellaneous Depth Offset for Repeat Analysis	0.0	FT

Format: CORRELATION Vertical Scale: 5" per 100' Graphics File Created: 20-Oct-2011 11:44

OP System Version: 19C0-187			
MRPA	HPS-5108-MDT_b	MRSC_01	HPS-5108-MDT_b
MRPO_UD	HPS-5108-MDT_b	MRSC_02	HPS-5108-MDT_b
MRPC	HPS-5108-MDT_b	SGT-L	19C0-187
TCC-BF	19C0-187		

Output DLIS Files

DEFAULT	MDT_178LUP	FN:266	PRODUCER	20-Oct-2011 11:44
BACKUP	MDT_178LUP	FN:267	PRODUCER	20-Oct-2011 11:47

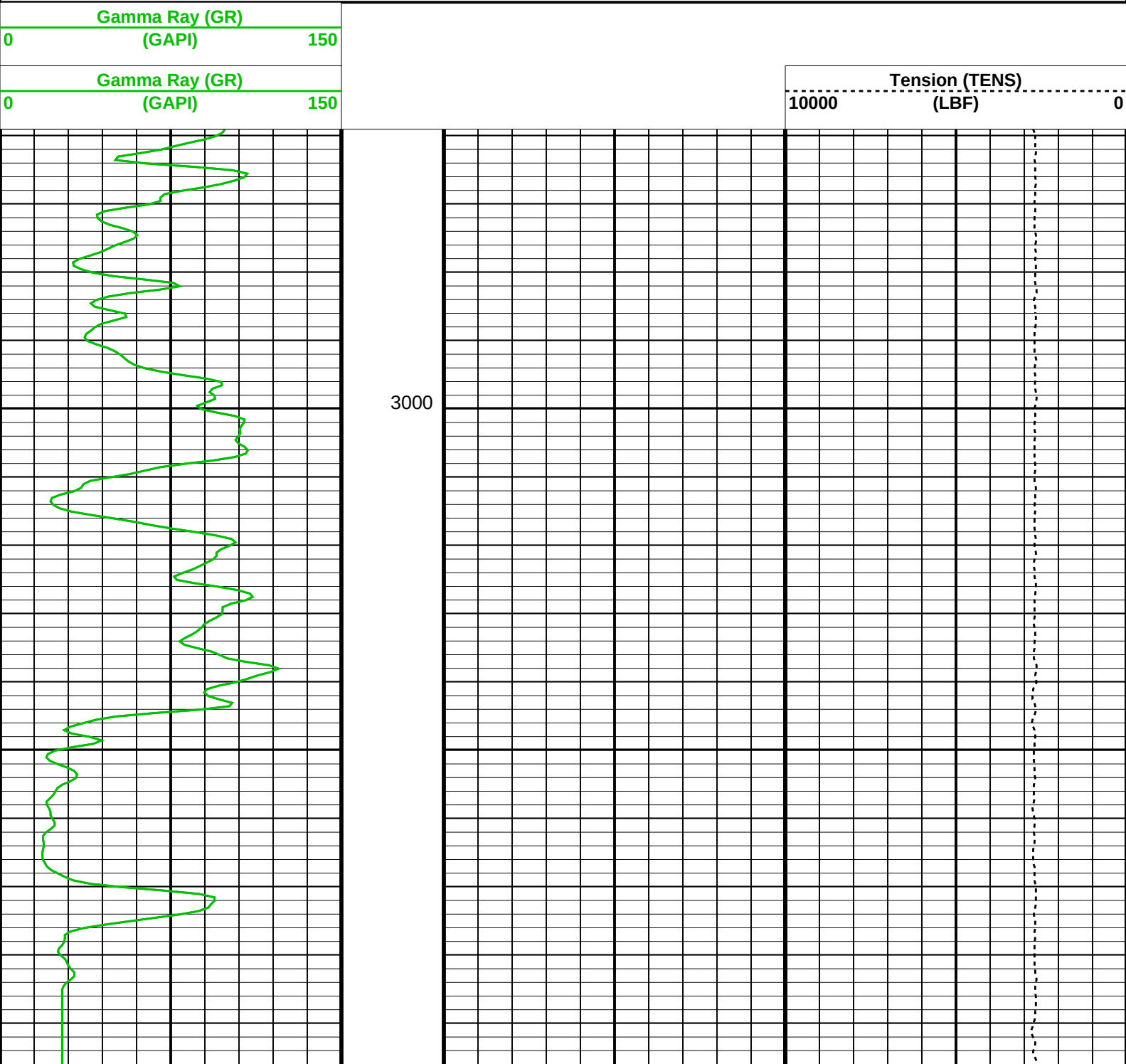
Company: SANDIA TECHNOLOGIES, LLC	Well: NYSTA TANDEM LOT 1
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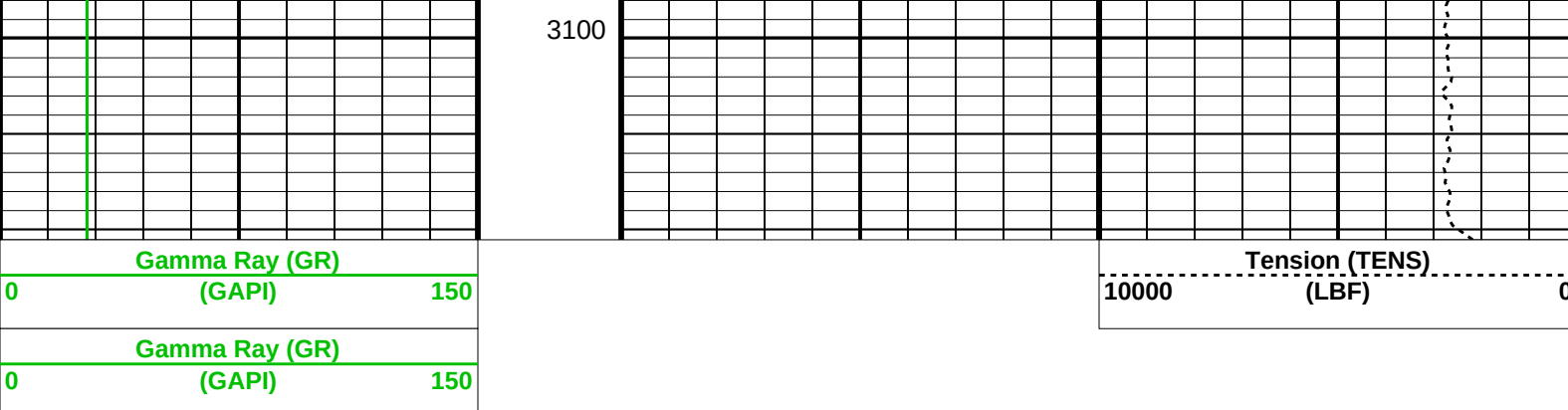
Output DLIS Files

DEFAULT	MDT_182LUP	FN:274	PRODUCER	20-Oct-2011 16:38
BACKUP	MDT_182LUP	FN:275	PRODUCER	20-Oct-2011 16:42

OP System Version: 19C0-187

MRPA	HPS-5108-MDT_b	MRSC_01	HPS-5108-MDT_b
MRPO_UD	HPS-5108-MDT_b	MRSC_02	HPS-5108-MDT_b
MRPC	HPS-5108-MDT_b	SGT-L	19C0-187
TCC-BF	19C0-187		





Parameters

DLIS Name	Description	Value	
PDCO	MRPA: Dual Packer Module (MRPA) Probe Depth Correction Offset	0	FT
PDCO	MRSC_01: Sample Chamber Module (MRSC) 01 Probe Depth Correction Offset	0	FT
PDCO	MRPO_UD: Dual Up-down Pumpout Module (MRPOUD) Probe Depth Correction Offset	0	FT
PDCO	MRSC_02: Sample Chamber Module (MRSC) 02 Probe Depth Correction Offset	0	FT
PDCO	MRPC: Power Cartridge Probe Depth Correction Offset	0	FT
DORL	System and Miscellaneous Depth Offset for Repeat Analysis	0.0	FT

Format: CORRELATION Vertical Scale: 5" per 100' Graphics File Created: 20-Oct-2011 16:39

OP System Version: 19C0-187

MRPA	HPS-5108-MDT_b	MRSC_01	HPS-5108-MDT_b
MRPO_UD	HPS-5108-MDT_b	MRSC_02	HPS-5108-MDT_b
MRPC	HPS-5108-MDT_b	SGT-L	19C0-187
TCC-BF	19C0-187		

Output DLIS Files

DEFAULT	MDT_182LUP	FN:274	PRODUCER	20-Oct-2011 16:38
BACKUP	MDT_182LUP	FN:275	PRODUCER	20-Oct-2011 16:42



Calibrations

MAXIS Field Log

Strain Gauge (Packer Module)

Serial Number:	210501
Range:	20K
Calibration Date:	24NOV2010
Mean Quadratic Deviation:	0.5230
Offset:	0.0000 PSI
Calibration Pressure Unit:	PSIG
Calibration Temperature Unit:	DEGF

	G	H	I	J
0	-7.745117e+002	1.008256e+000	-1.291117e-007	-7.776474e-012
1	-2.675949e-001	-1.069079e-005	-5.785386e-010	2.842129e-014
2	1.761876e-003	9.750249e-009	1.029277e-012	-3.668472e-017
3	-2.013756e-006	4.578851e-011	-1.755796e-015	0.000000e+000

MASTER CALIBRATION SUMMARY: Quartz Gauge (Packer Module)

Calibration Pressure Unit: PSIA
 Calibration Temperature Unit: DEGC
 Sensor Comment: :
 Sensor Serial Number: 5329
 Sensor Calibration Date (DDMMYY): 271010
 Pressure Model: $P=F(Fc,Fb)$
 Pressure Matrix: 66
 Pressure CRC: D9D2
 Temperature Model: $T=F(Fb,Fc)$
 Temperature Matrix: 66
 Temperature CRC: C99D
 Clock Comment: :
 Clock Serial Number: 016
 Clock Calibration Date (DDMMYY): 300810
 Clock Model: $Fclk=F(Fb'-Fc')$
 Clock Matrix: 16
 Clock CRC: E4A7
 Fc Offset: +.514400000000E+07 Hz
 Fb Offset: +.558800000000E+07 Hz
 R Offset: +.470000000000E+06 Hz

Pressure Coefficients

	Fb**0	Fb**1	Fb**2	Fb**3
Fc**0	+ .859533122378E+04	+ .277944536173E-01	+ .207824415295E-06	- .730035019050E-10
Fc**1	- .107079343544E+01	- .130545301395E-04	- .997603812119E-10	- .196548177491E-15
Fc**2	+ .112919862784E-05	+ .440225929365E-10	+ .911664957520E-15	+ .742187619760E-19
Fc**3	+ .547742638516E-11	+ .277119068789E-15	- .576791922832E-19	- .255846577864E-23
Fc**4	+ .103411089925E-15	+ .844897287403E-19	+ .680651288173E-23	- .243927243296E-26
Fc**5	- .717706686890E-20	- .899503578979E-23	- .164792875491E-27	+ .261061459716E-30

	Fb**4	Fb**5
Fc**0	- .118891018037E-14	- .340249195511E-19
Fc**1	- .219861399785E-19	+ .247243434466E-23
Fc**2	+ .177816405925E-23	- .332347178681E-27
Fc**3	+ .633500231160E-27	- .127065933716E-31
Fc**4	- .110893588372E-30	+ .162669016246E-34

Fc**5	+516253184128E-35	-.146887103490E-38
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Temperature Coefficients

	Fc**0	Fc**1	Fc**2	Fc**3
Fb**0	+1.125587132758E+03	-.355994891820E-03	+6.55284646323E-08	+7.793343860537E-13
Fb**1	-.593801084582E-02	+1.176352648506E-07	+1.186158398930E-12	-.186012085321E-16
Fb**2	-.302659644285E-07	+4.15527682095E-12	-.117401157733E-16	-.459653531684E-20
Fb**3	-.254028348992E-12	-.491577296290E-17	+1.135302597436E-20	+2.260307864062E-25
Fb**4	-.354888683614E-17	-.892563135083E-21	+1.195910974891E-24	+3.376615125656E-28
Fb**5	-.531232598103E-22	+7.737146836628E-25	-.178329187050E-28	+7.792391663082E-33

	Fc**4	Fc**5
Fb**0	+3.325918740520E-17	-.100784589826E-20
Fb**1	-.641125577876E-22	+1.119535250740E-24
Fb**2	+1.115939874423E-24	+6.640118252255E-28
Fb**3	-.550795514929E-28	+8.870580963391E-32
Fb**4	-.345449428168E-32	-.289413999509E-36
Fb**5	+5.596647082250E-36	-.884625919458E-40

Clock Coefficients

F'b/F'c**0	+5.517511799876E+07
F'b/F'c**1	+2.211159897920E-02
F'b/F'c**2	+6.686905575154E-06
F'b/F'c**3	-.653763053682E-10
F'b/F'c**4	-.479360888899E-15
F'b/F'c**5	+4.428096024402E-20

Company: **SANDIA TECHNOLOGIES, LLC**

Schlumberger

Well: **NYSTA TANDEM LOT 1**

Field: **WILDCAT**

County: **ROCKLAND**

State: **NEW YORK**

MODULAR FORMATION DYNAMICS TESTER
MINI-FRAC / MINI-DST
GAMMA RAY