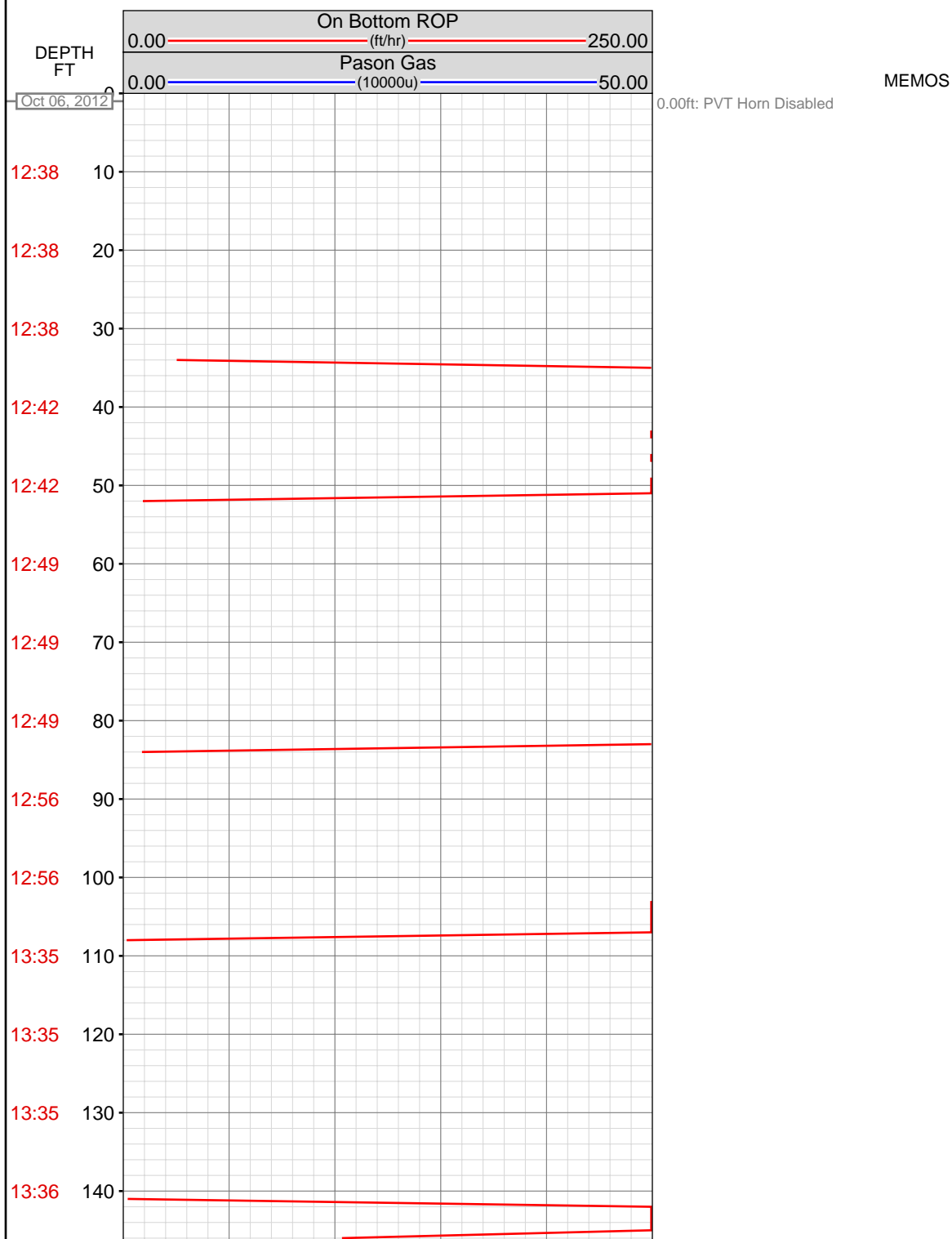


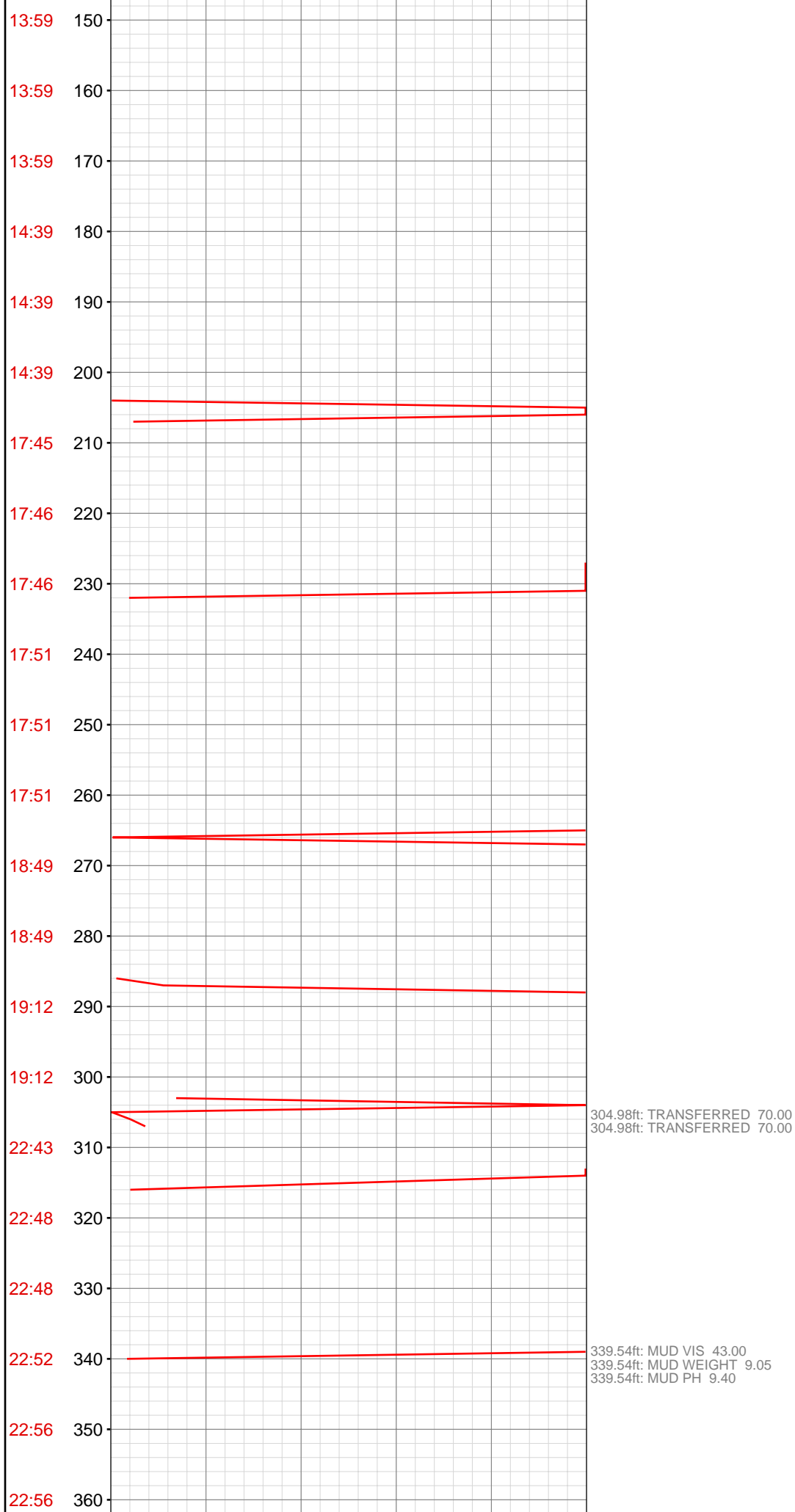
# DataHub EDR Log

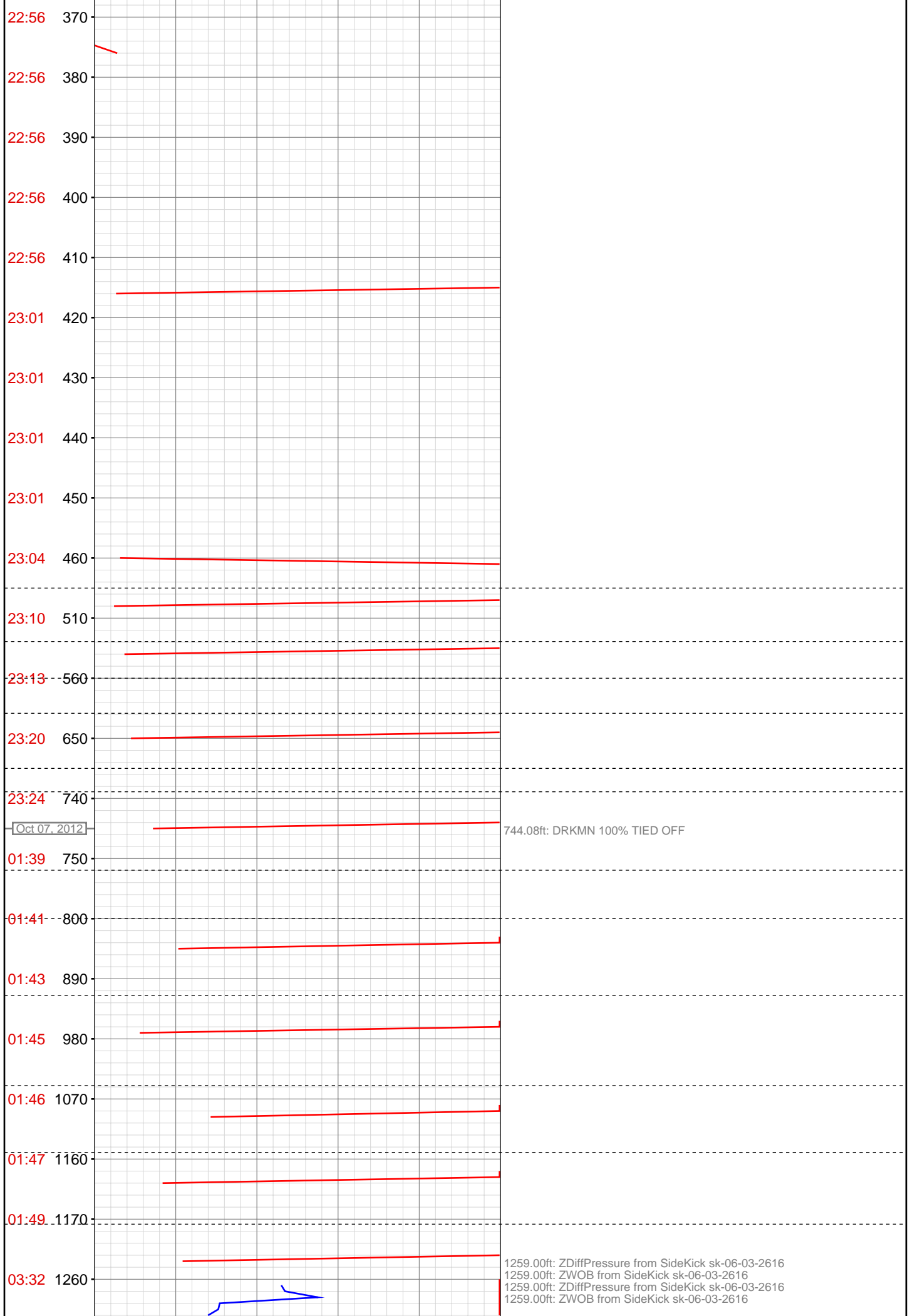
Tue Oct 16, 2012 09:17:29  
Well Dossier 1349537731  
Greg Veregin

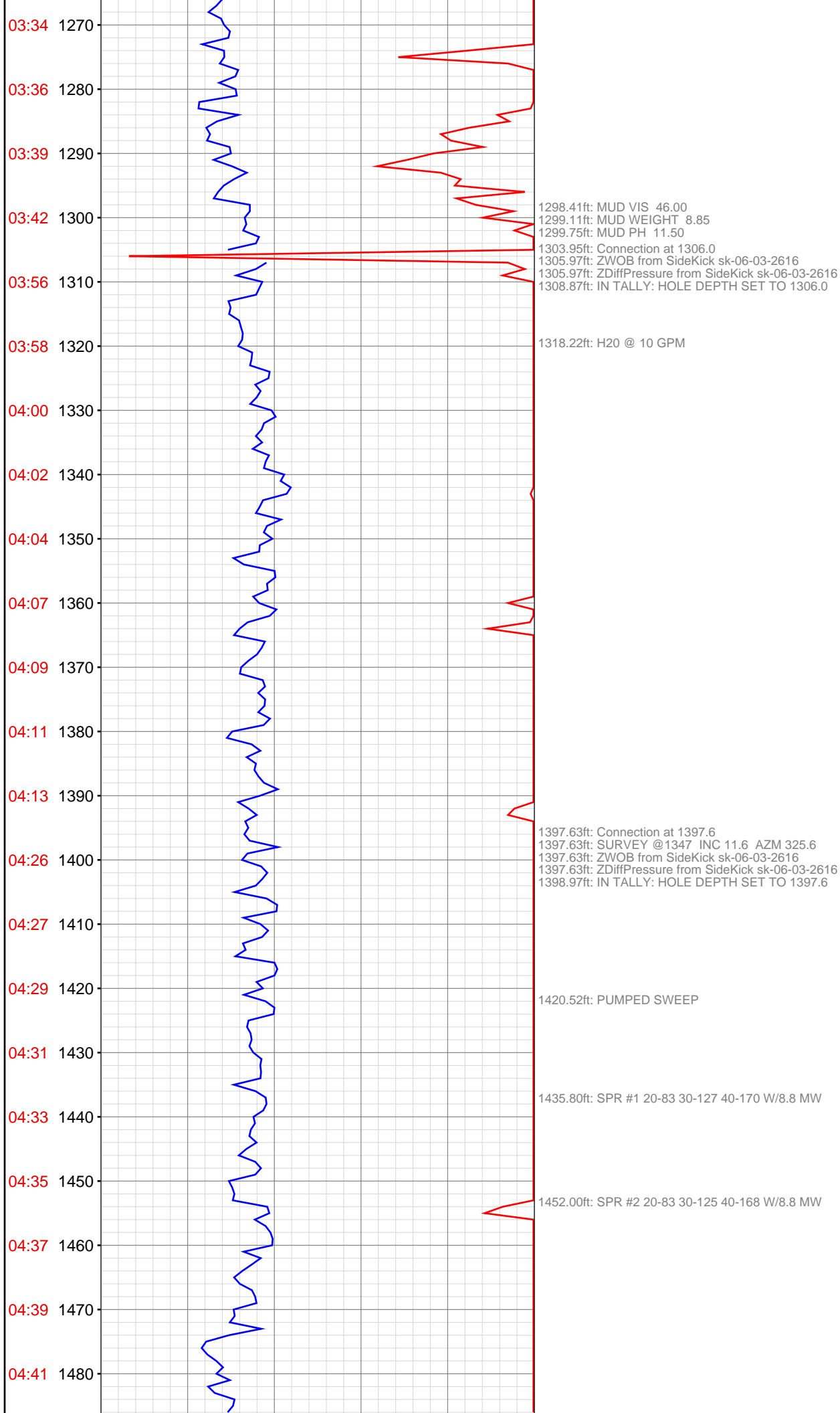
**OPERATOR:** EnCana Oil & Gas (USA), Inc.  
**WELL:** MCU fee 16-12C  
**FIELD:**  
**LOCATION:** SE/SW SEC16TS7 RNG 93W  
**COUNTRY:** USA  
**RIG:** Pat-UTI 308

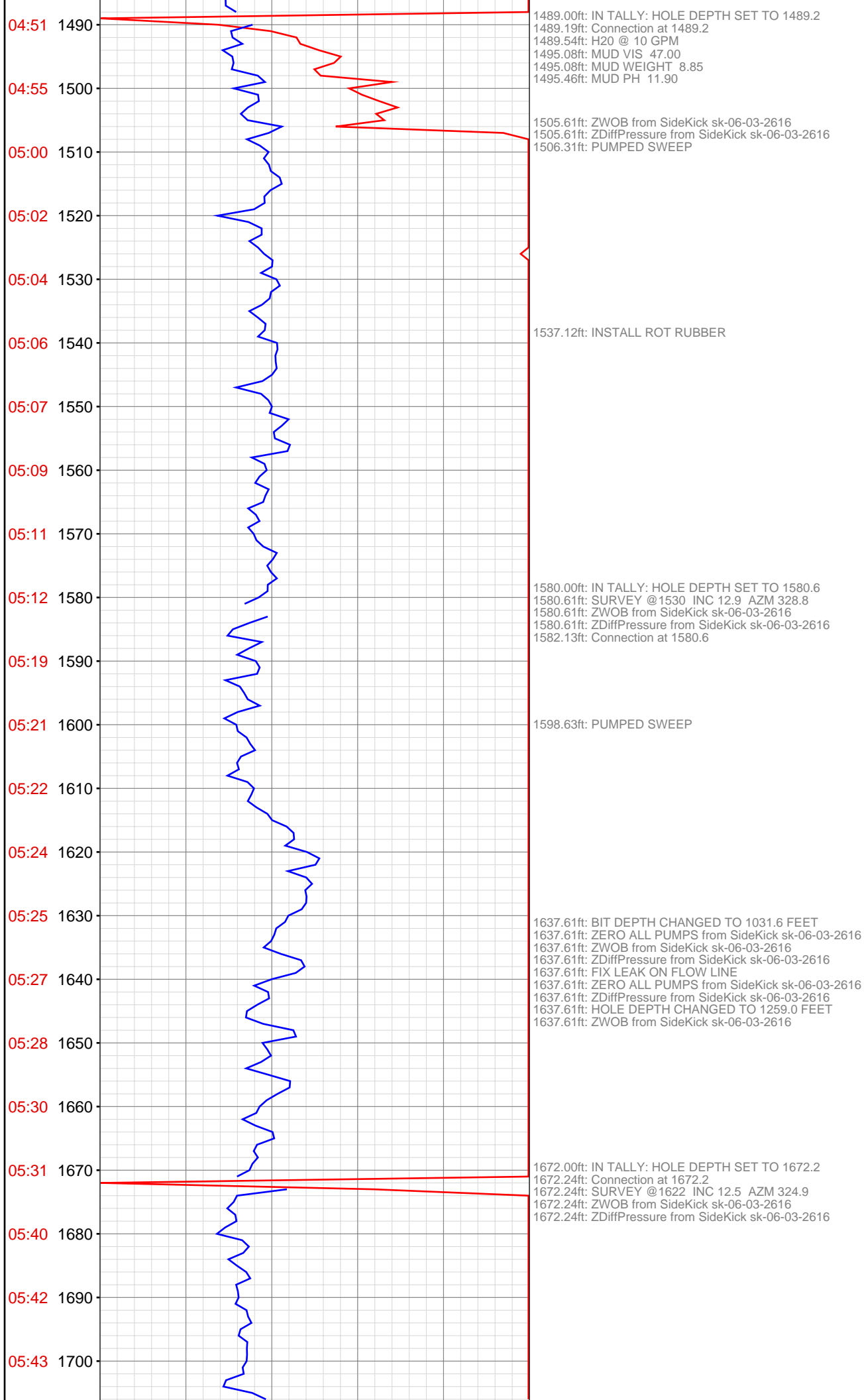
**CONTRACTOR:** Patterson-UTI Drilling Company  
**UNIQUE WELL ID:** 05-045-20688  
**SPUD DATE:** Oct 06, 2012 21:30  
**RELEASE DATE:** Oct 13, 2012 22:00

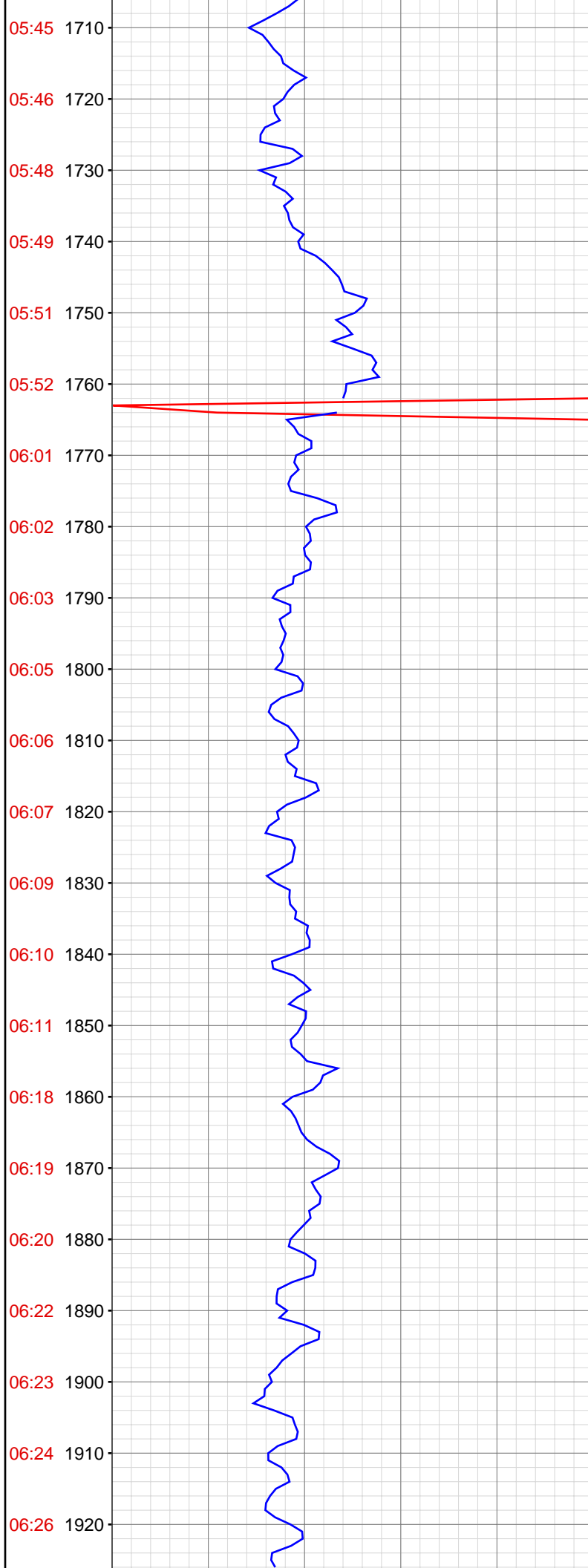






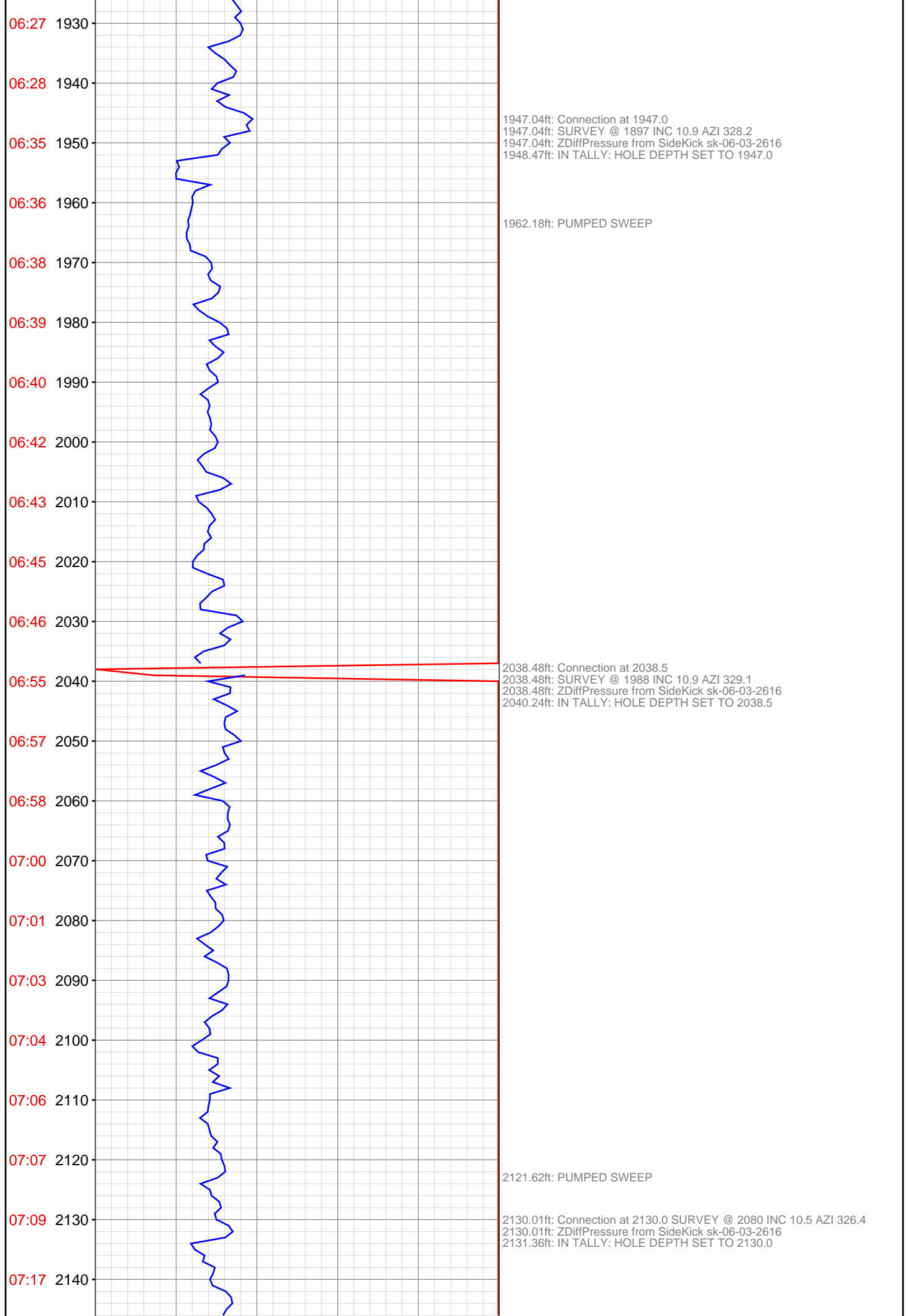


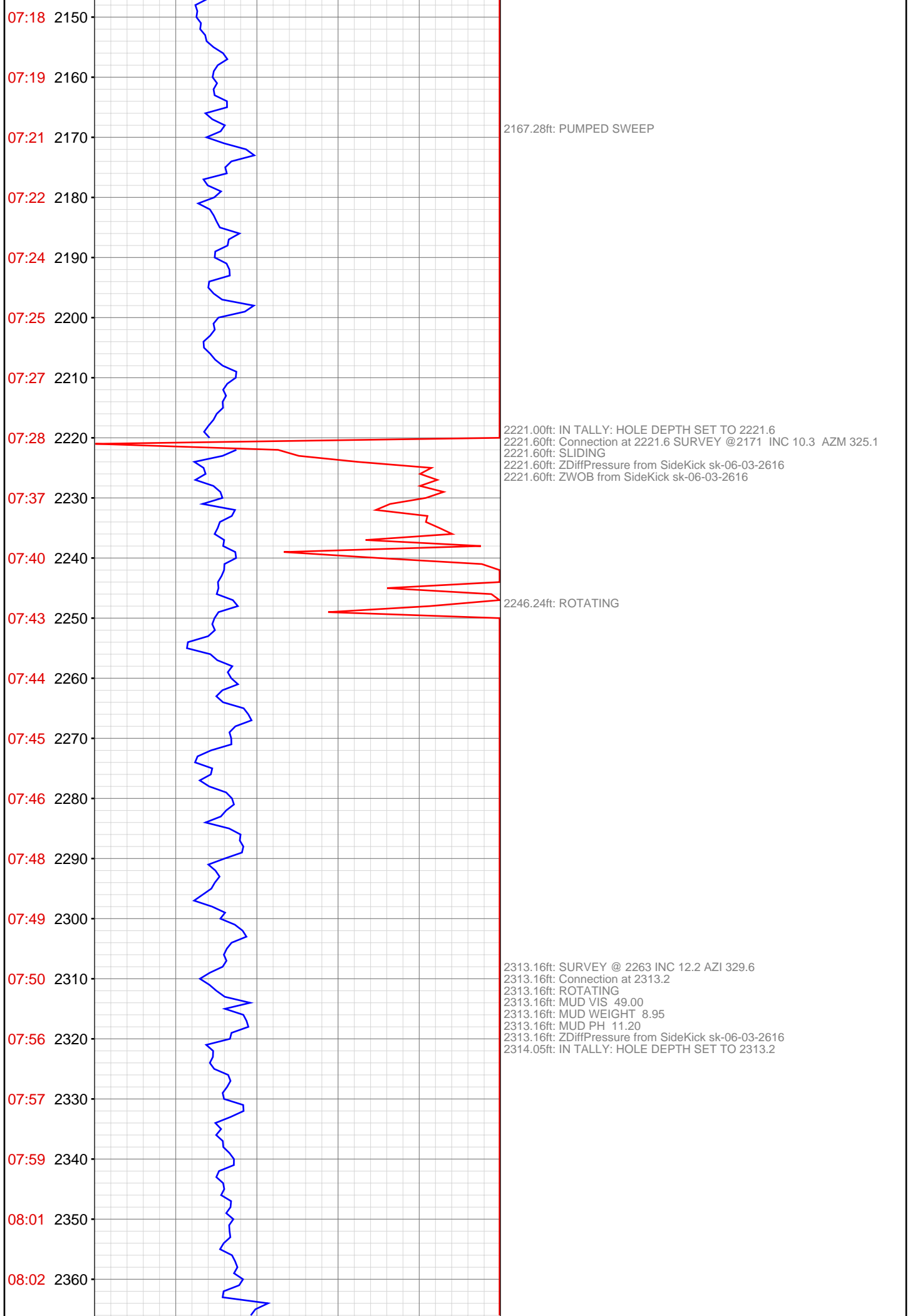




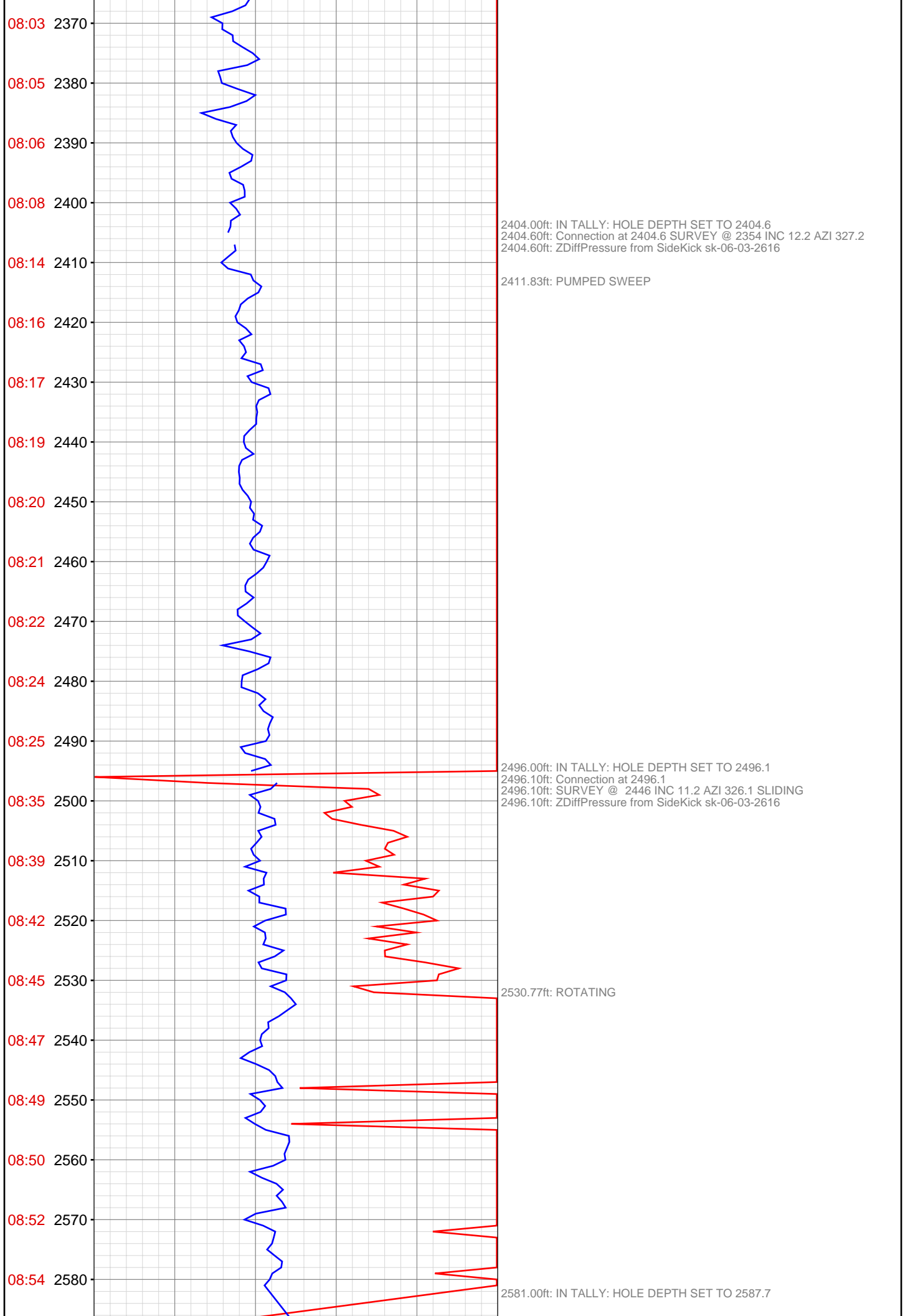
1763.78ft: Connection at 1763.8  
1763.78ft: MUD VIS 47.00  
1763.78ft: MUD WEIGHT 9.85  
1763.78ft: MUD PH 11.70  
1763.78ft: ZDiffPressure from SideKick sk-06-03-2616  
1765.32ft: IN TALLY: HOLE DEPTH SET TO 1763.8  
1768.74ft: PUMPED SWEEP

1855.47ft: Connection at 1855.5  
1855.47ft: SURVEY @ 1805 INC 11.7 AZI 325.9  
1855.47ft: ZDiffPressure from SideKick sk-06-03-2616  
1856.78ft: IN TALLY: HOLE DEPTH SET TO 1855.5









2587.68ft: Connection at 2587.7 SURVEY @ 2537 INC 13.5 AZI 332.4  
2587.68ft: ZDiffPressure from SideKick sk-06-03-2616  
2587.68ft: ZWOB from SideKick sk-06-03-2616

2636.00ft: MUD VIS 49.00  
2636.70ft: MUD WEIGHT 8.90  
2637.00ft: MUD PH 10.90

2679.13ft: Connection at 2679.1 SURVEY @ 2629 INC 13.3 AZI 332.3  
2679.13ft: ZDiffPressure from SideKick sk-06-03-2616  
2680.88ft: IN TALLY: HOLE DEPTH SET TO 2679.1

2699.69ft: PUMPED SWEEP

2770.00ft: IN TALLY: HOLE DEPTH SET TO 2770.7  
2770.69ft: SURVEY @ 2720 INC 12.4 AZI 331.2  
2770.69ft: Connection at 2770.7  
2770.69ft: ZDiffPressure from SideKick sk-06-03-2616

09:02 2590

09:04 2600

09:06 2610

09:07 2620

09:09 2630

09:10 2640

09:11 2650

09:13 2660

09:14 2670

09:16 2680

09:22 2690

09:24 2700

09:25 2710

09:26 2720

09:28 2730

09:29 2740

09:31 2750

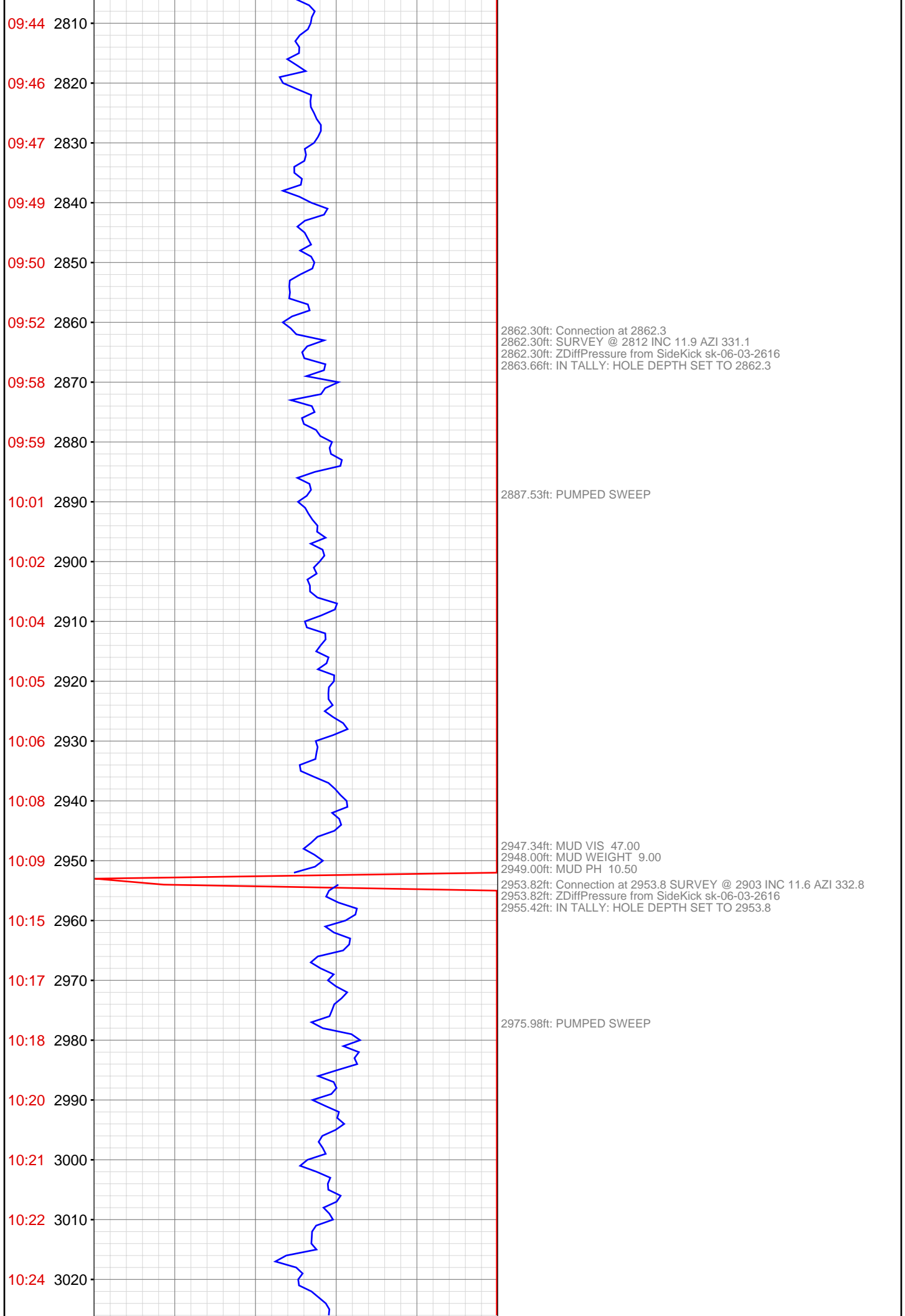
09:32 2760

09:34 2770

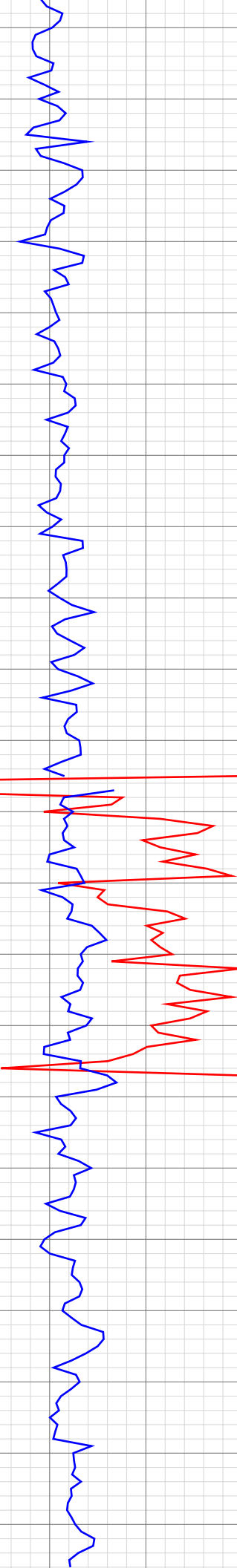
09:40 2780

09:41 2790

09:43 2800



10:25 3030  
10:27 3040  
10:33 3050  
10:34 3060  
10:36 3070  
10:37 3080  
10:39 3090  
10:40 3100  
10:42 3110  
10:43 3120  
10:45 3130  
10:56 3140  
10:59 3150  
11:02 3160  
11:05 3170  
11:08 3180  
11:10 3190  
11:11 3200  
11:13 3210  
11:14 3220  
11:20 3230  
11:22 3240



3045.22ft: Connection at 3045.2 SURVEY @ 2995 INC 11.0 AZI 327.3  
3045.22ft: ZDiffPressure from SideKick sk-06-03-2616  
3046.58ft: IN TALLY: HOLE DEPTH SET TO 3045.2

3067.44ft: PUMPED SWEEP

3136.00ft: IN TALLY: HOLE DEPTH SET TO 3136.7  
3136.67ft: Connection at 3136.7  
3136.67ft: SURVEY @ 3086 INC 10.6 AZI 327.6  
3136.67ft: SLIDING

3173.39ft: ROTATING

3185.00ft: MUD VIS 48.00  
3186.00ft: MUD WEIGHT 9.10  
3187.00ft: MUD PH 10.60

3228.20ft: Connection at 3228.2 SURVEY @ 3178 INC 11.3 AZI 332.2  
3228.20ft: ZDiffPressure from SideKick sk-06-03-2616  
3228.91ft: IN TALLY: HOLE DEPTH SET TO 3228.2

3245.44ft: PUMPED SWEEP

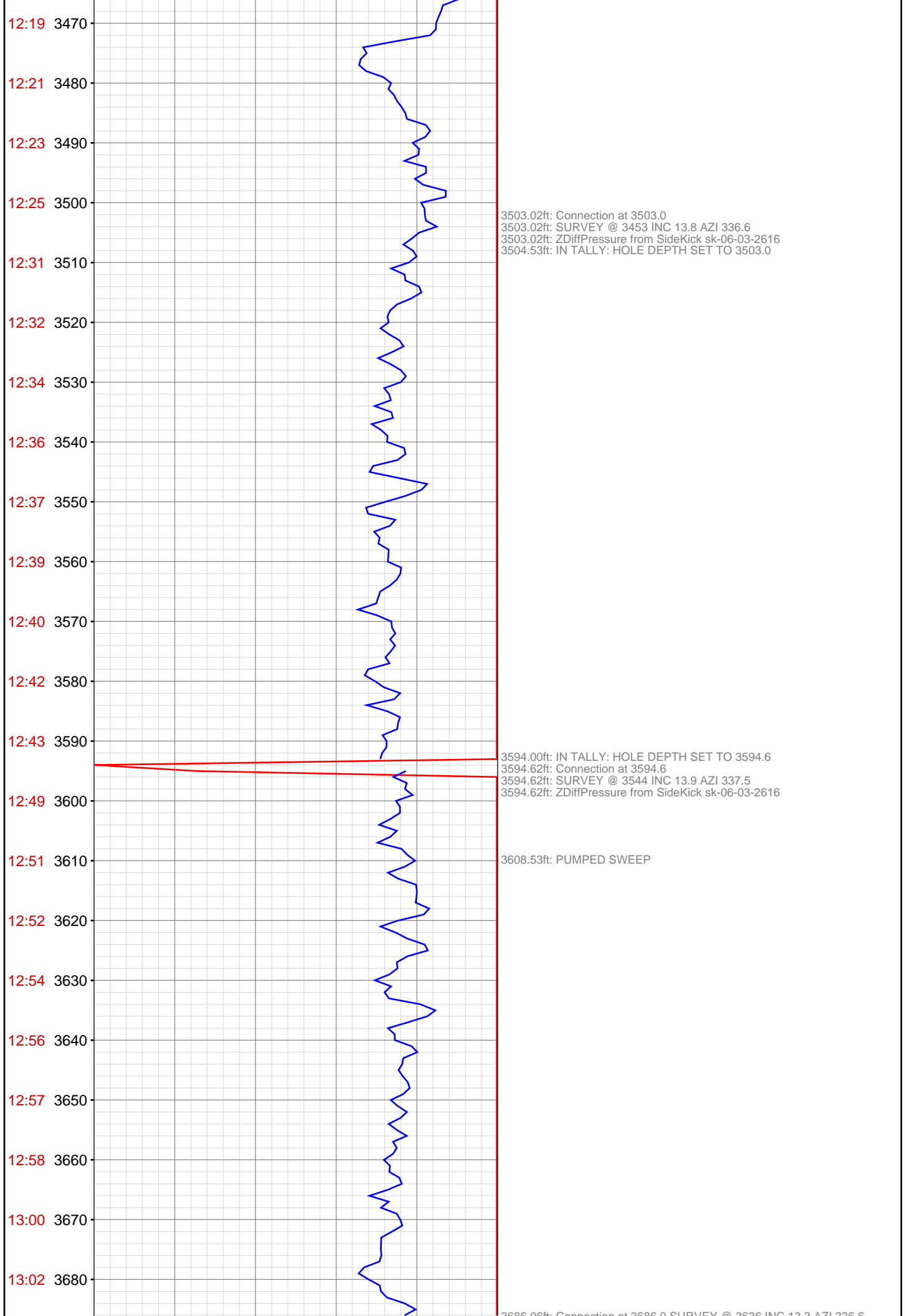
3245.11ft: PUMPED SWEEP

3319.82ft: SURVEY @ 3269 INC 10.6 AZI 330.0  
3319.82ft: Connection at 3319.8  
3319.82ft: SLIDING  
3319.82ft: ZDiffPressure from SideKick sk-06-03-2616  
3320.60ft: IN TALLY: HOLE DEPTH SET TO 3319.8

3355.38ft: ROTATING  
3355.84ft: ZDiffPressure from SideKick sk-06-03-2616

3364.80ft: PUMPED SWEEP

3410.99ft: IN TALLY: HOLE DEPTH SET TO 3411.3  
3411.32ft: MUD VIS 48.00  
3411.32ft: MUD WEIGHT 9.10  
3411.32ft: MUD PH 10.70  
3411.32ft: SURVEY @ 3361 INC 14.3 AZI 338.3  
3411.32ft: Connection at 3411.3  
3411.32ft: ZDiffPressure from SideKick sk-06-03-2616



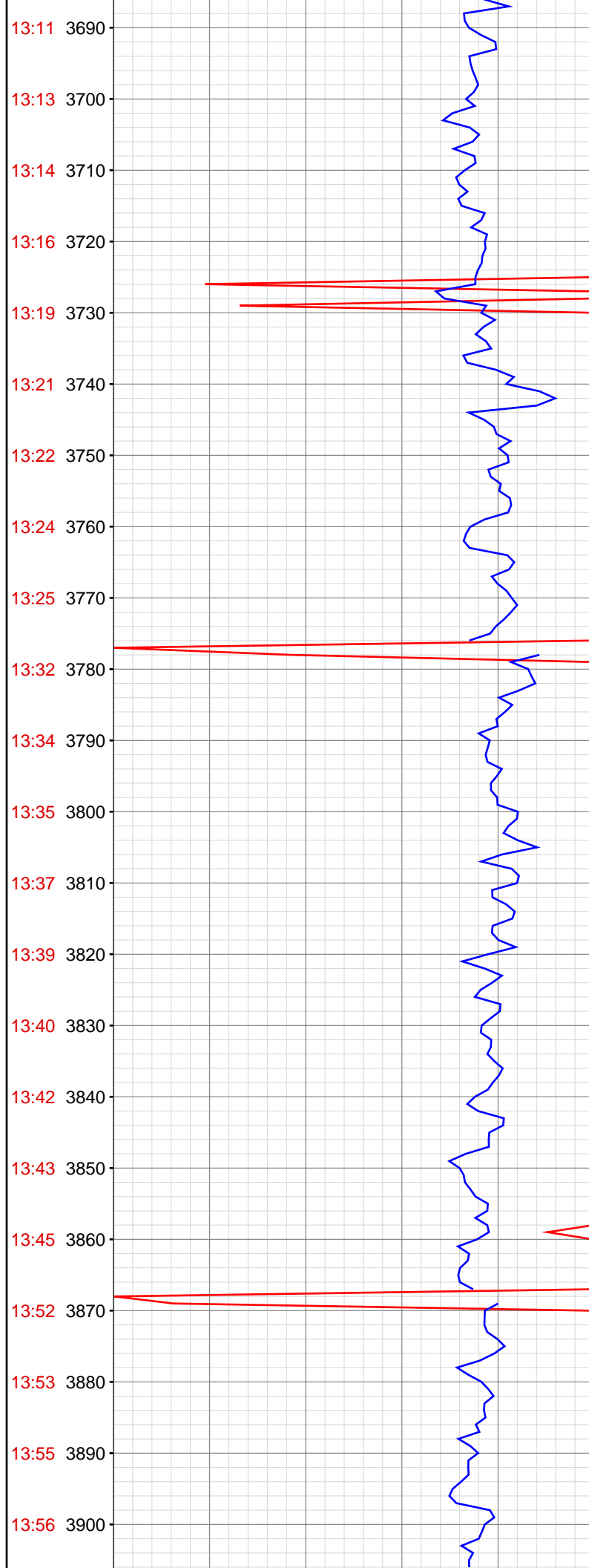
3686.06ft: Connection at 3686.0 SURVEY @ 3638 INC 13.3 AZI 336.8  
3686.06ft: ZDiffPressure from SideKick sk-06-03-2616  
3687.57ft: IN TALLY: HOLE DEPTH SET TO 3686.0

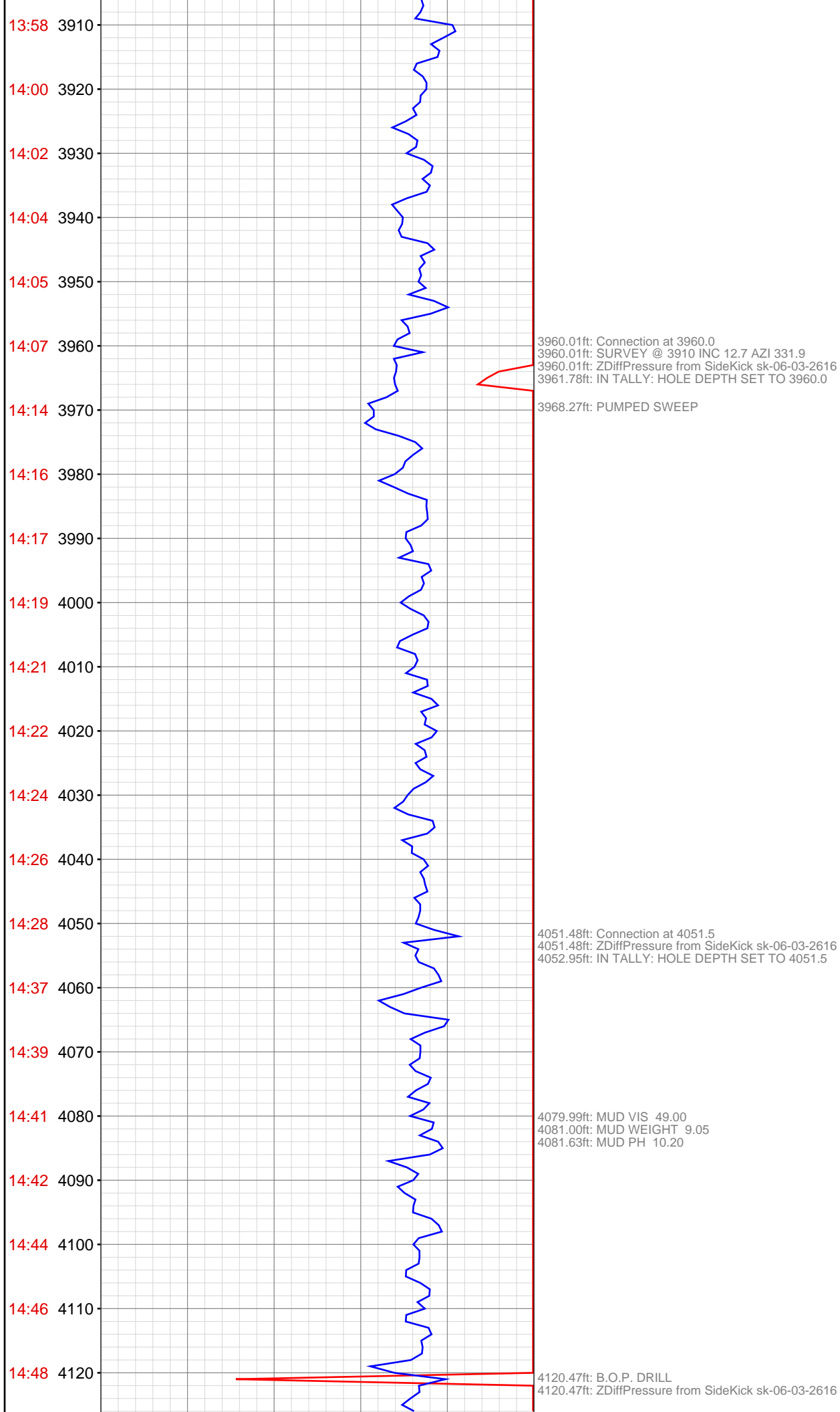
3725.30ft: ZDiffPressure from SideKick sk-06-03-2616  
3728.54ft: ZDiffPressure from SideKick sk-06-03-2616

3739.01ft: MUD VIS 50.00  
3740.09ft: MUD WEIGHT 9.05  
3740.09ft: MUD PH 10.40

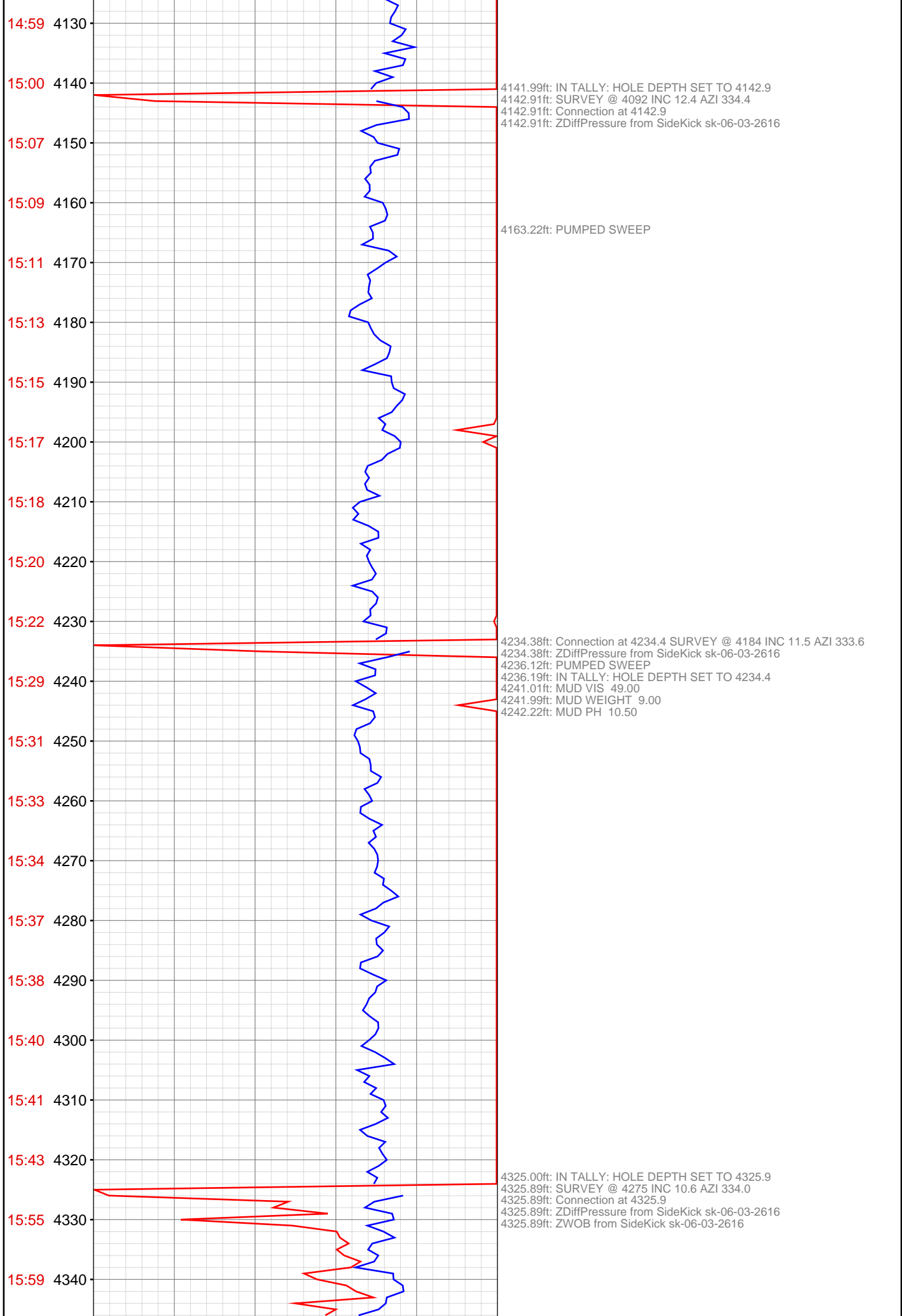
3777.00ft: IN TALLY: HOLE DEPTH SET TO 3777.6  
3777.56ft: Connection at 3777.6 SURVEY @ 3727 INC 13.1 AZI 333.8  
3777.56ft: ZDiffPressure from SideKick sk-06-03-2616

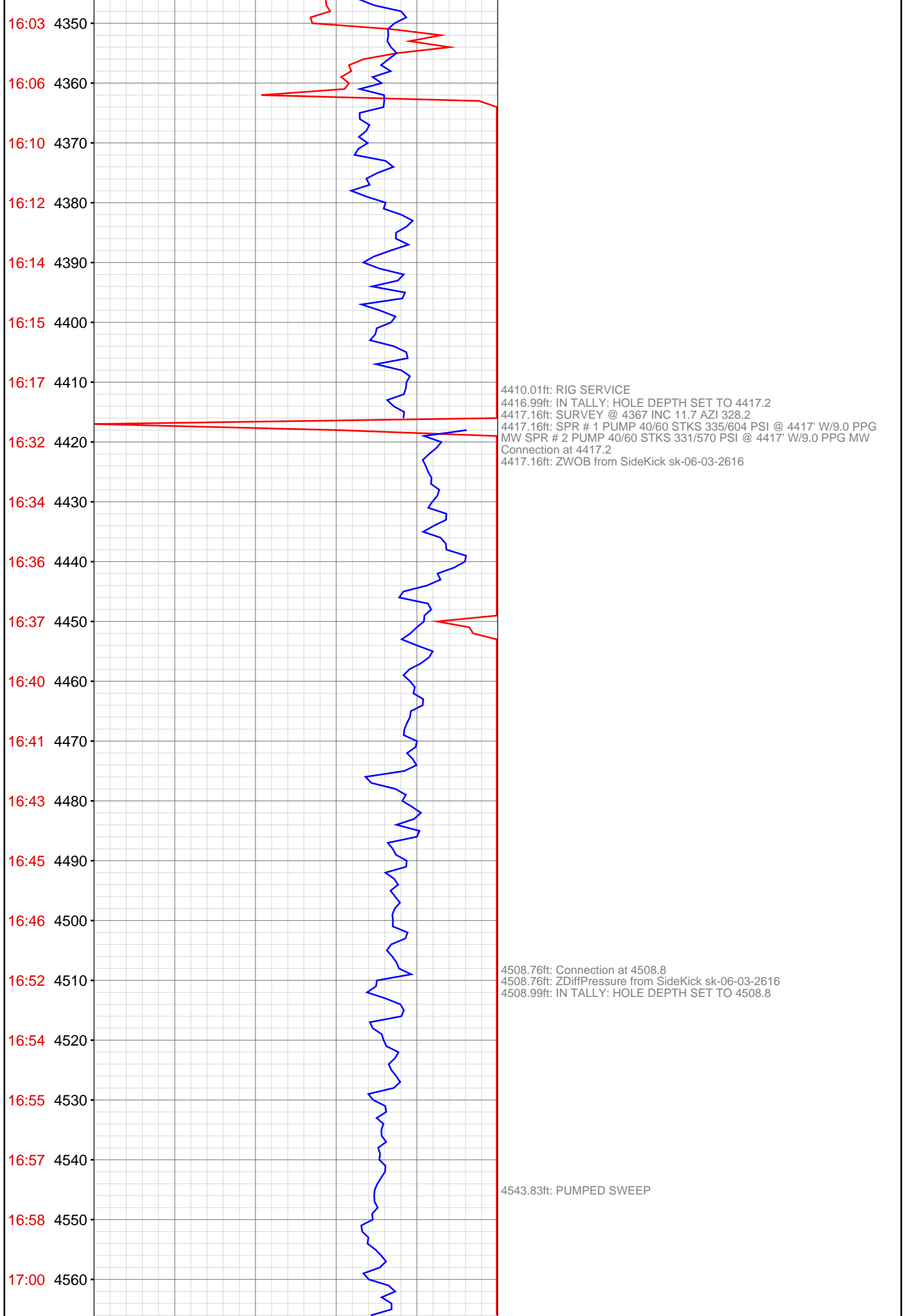
3868.01ft: IN TALLY: HOLE DEPTH SET TO 3868.6  
3868.64ft: Connection at 3868.6  
3868.64ft: SURVEY @ 3818 INC 12.8 AZI 333.3  
3868.64ft: ZDiffPressure from SideKick sk-06-03-2616



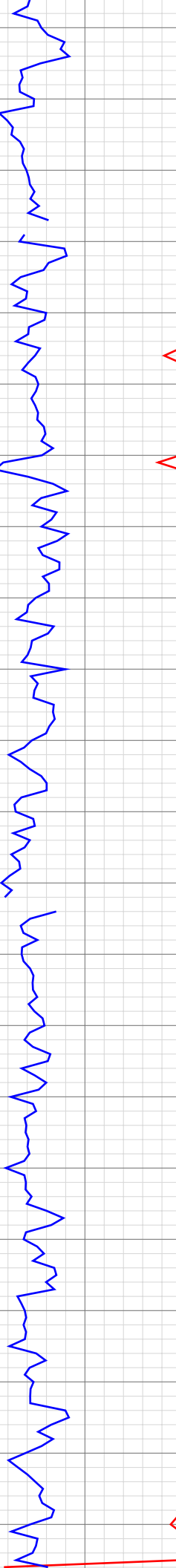








17:02 4570  
17:03 4580  
17:05 4590  
17:07 4600  
17:15 4610  
17:17 4620  
17:19 4630  
17:21 4640  
17:22 4650  
17:24 4660  
17:26 4670  
17:27 4680  
17:29 4690  
17:36 4700  
17:38 4710  
17:40 4720  
17:42 4730  
17:44 4740  
17:45 4750  
17:47 4760  
17:49 4770  
17:51 4780



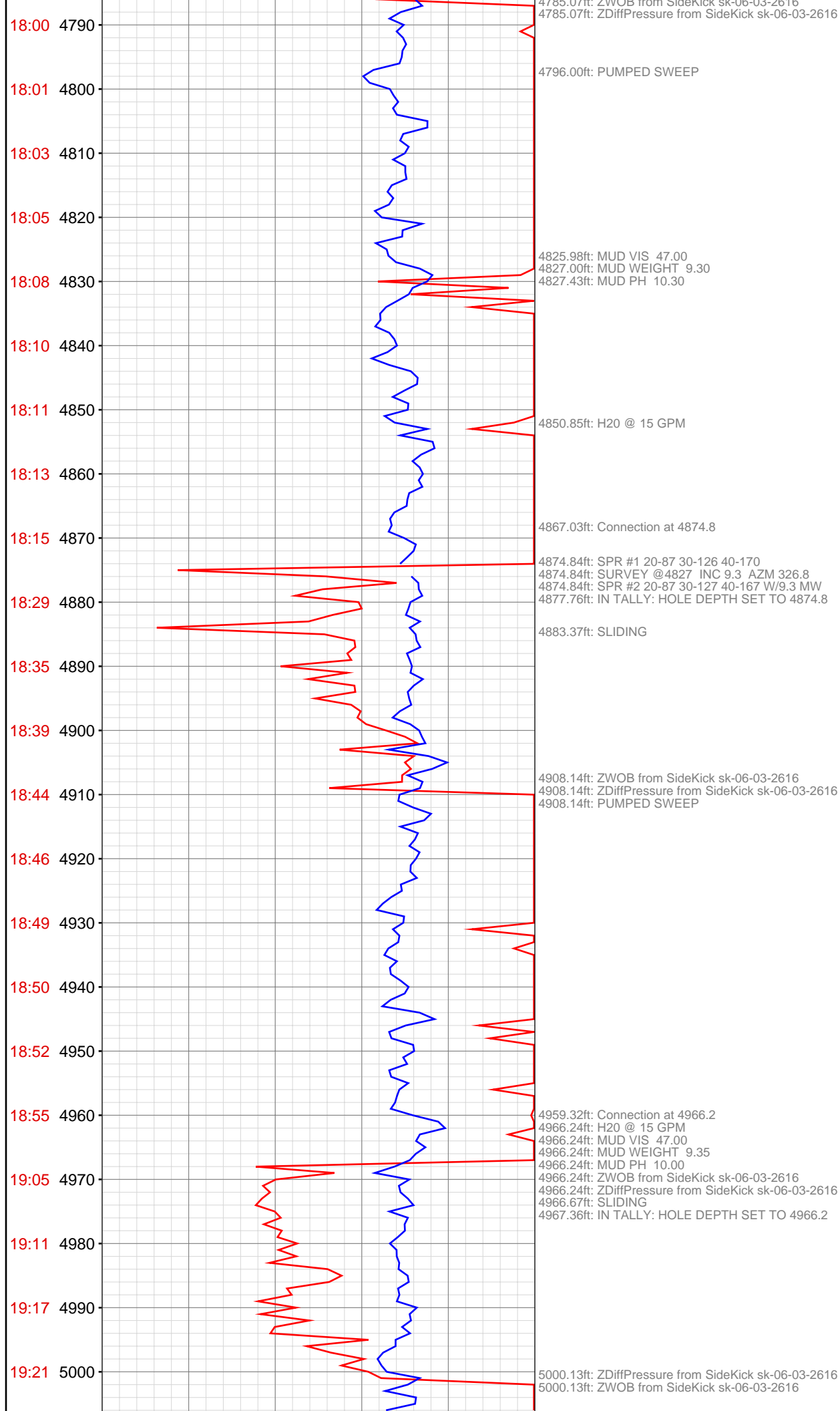
4596.10ft: MUD VIS 44.00  
4597.01ft: MUD WEIGHT 9.10  
4597.08ft: MUD PH 10.20  
4600.13ft: Connection at 4600.1  
4600.13ft: SURVEY @ 4550 INC 10.9 AZI 327.5  
4600.13ft: ZDiffPressure from SideKick sk-06-03-2616  
4601.97ft: IN TALLY: HOLE DEPTH SET TO 4600.1

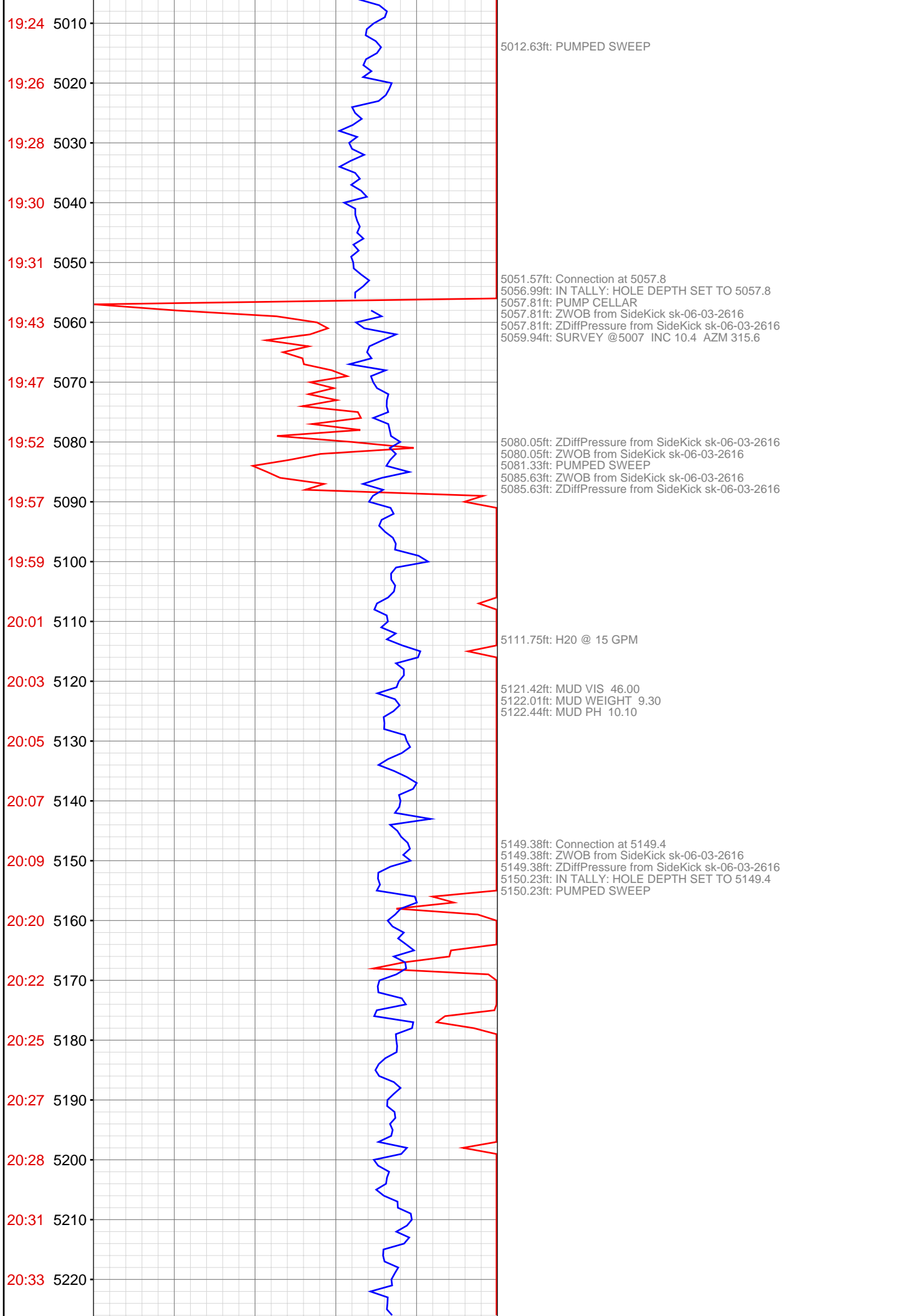
4669.72ft: PUMPED SWEEP

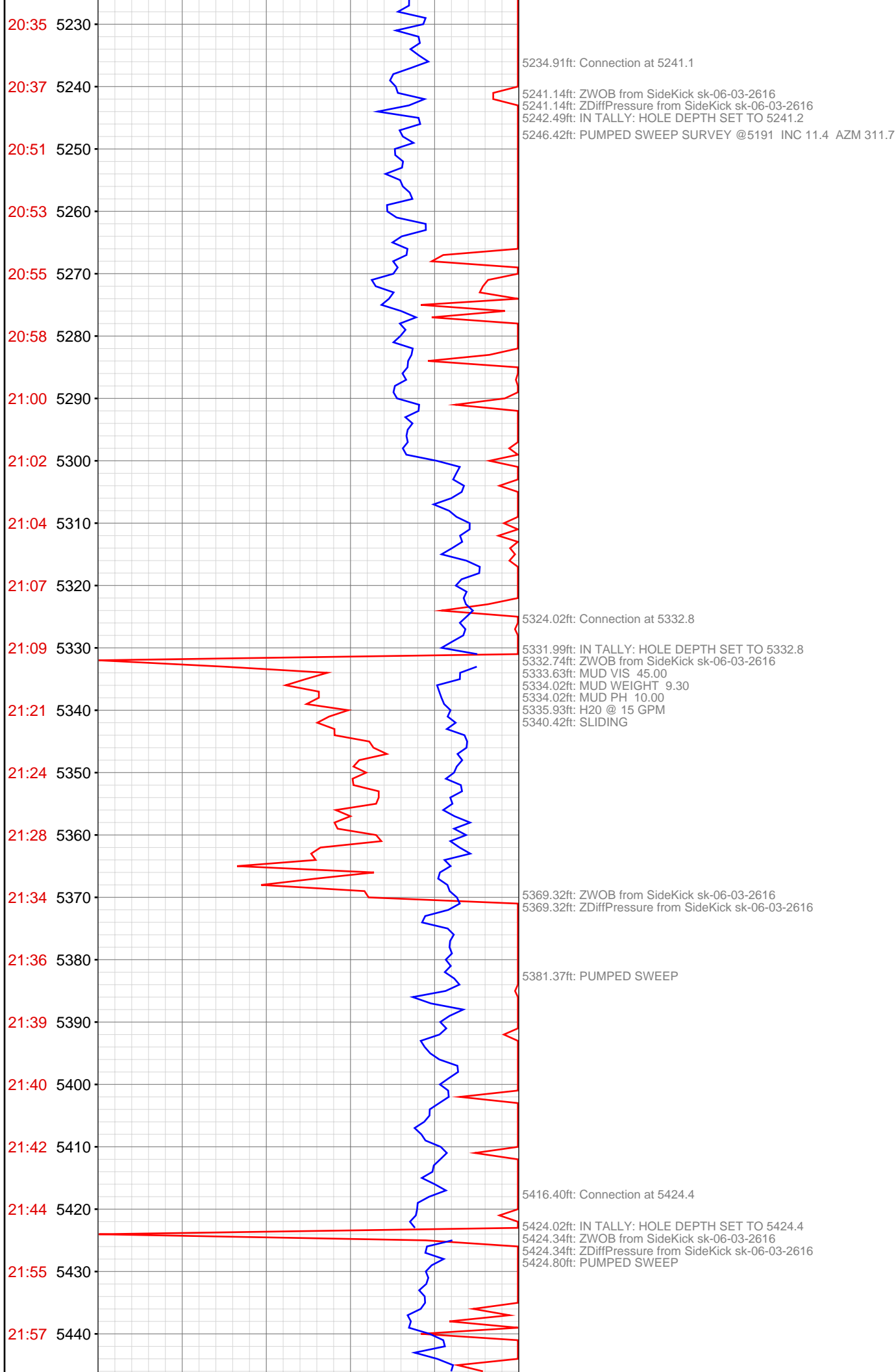
4693.67ft: IN TALLY: HOLE DEPTH SET TO 4691.7  
4693.67ft: Connection at 4691.7  
4693.67ft: SURVEY @ 4641 INC 10.5 AZI 329.7  
4693.67ft: ZDiffPressure from SideKick sk-06-03-2616

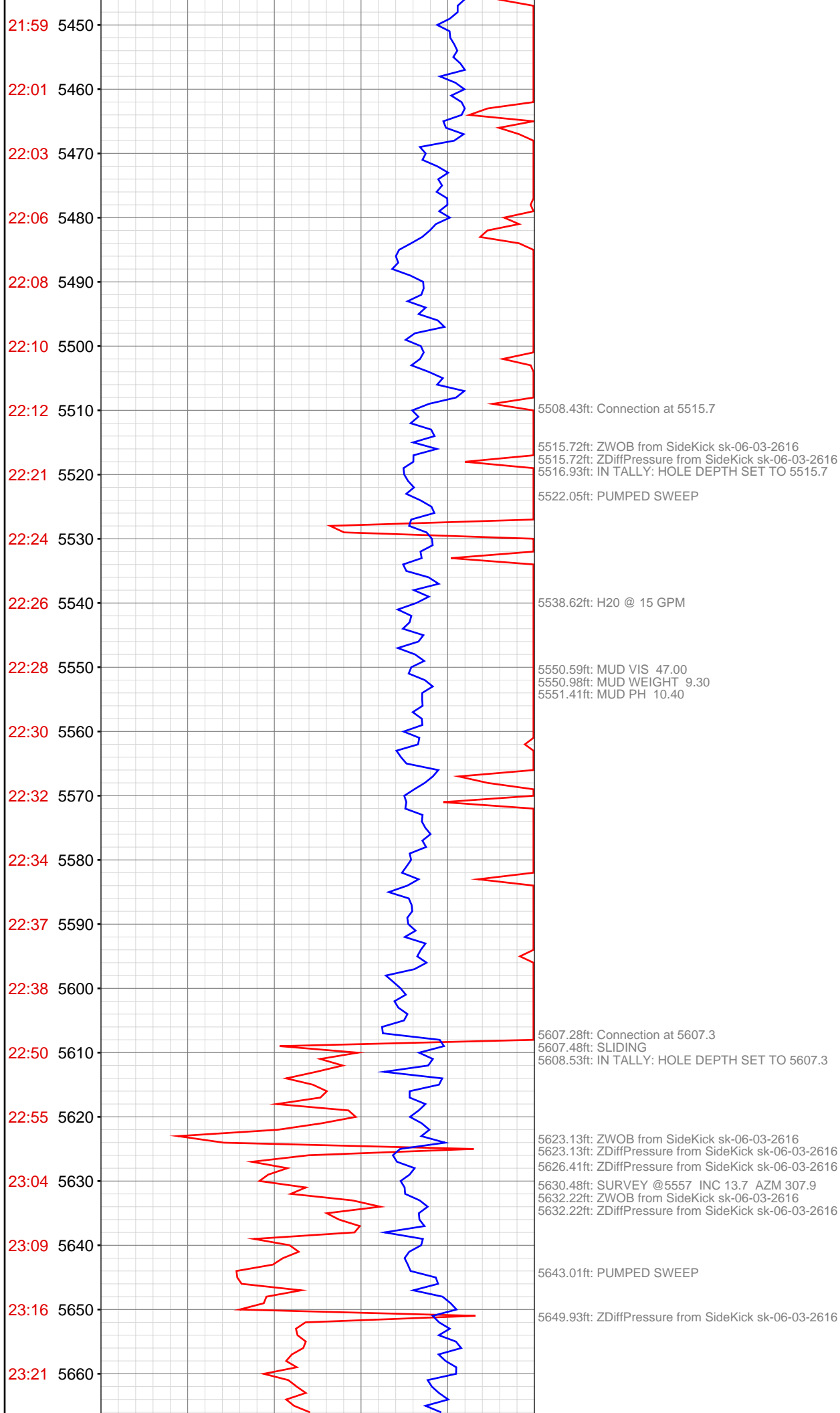
4740.09ft: PVT:Volume alarm reactivated: un-muted

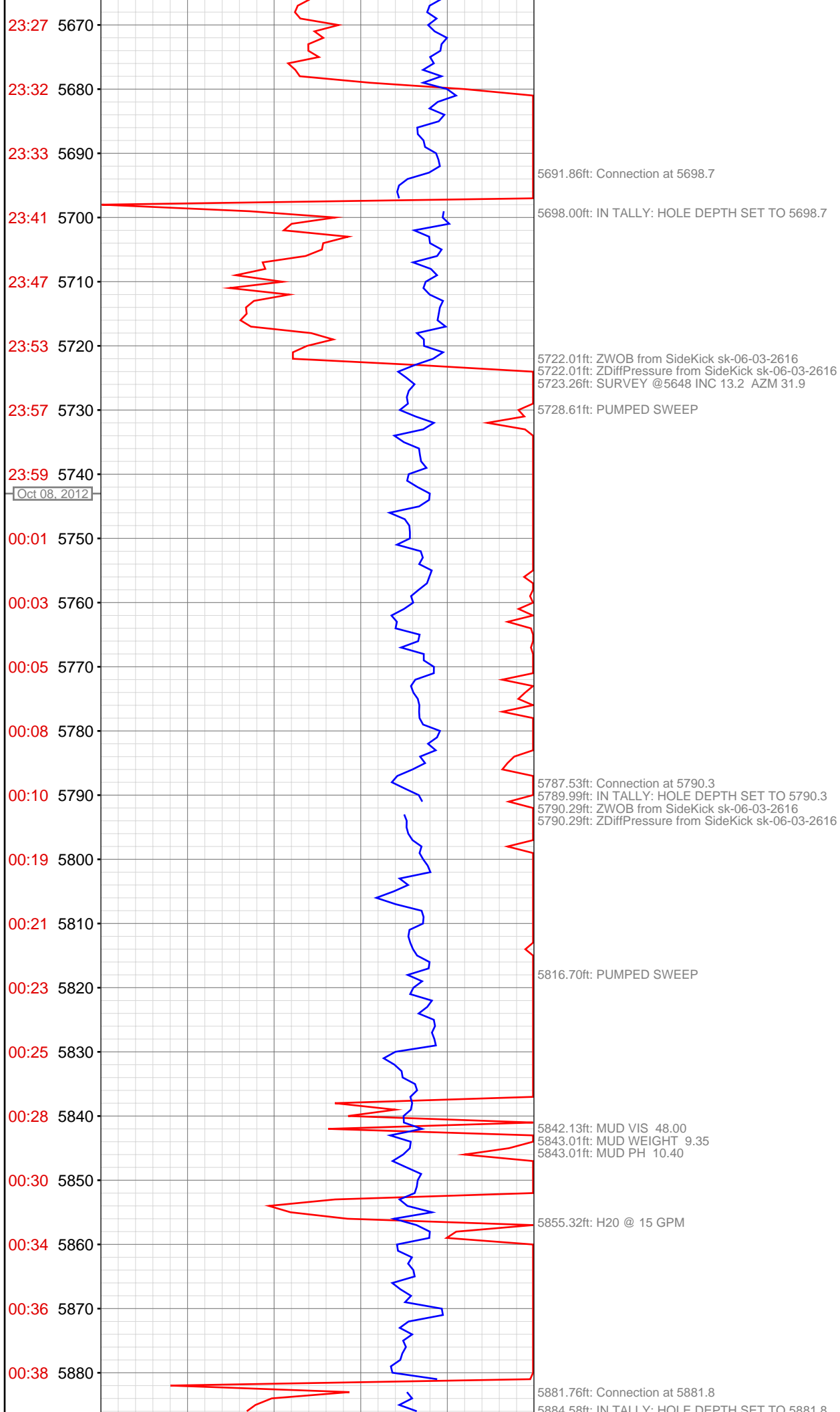
4785.07ft: Connection at 4783.4  
4785.07ft: SURVEY @ 4735 INC 10.5 AZI 329.7  
4785.07ft: ZDiffPressure from SideKick sk-06-03-2616



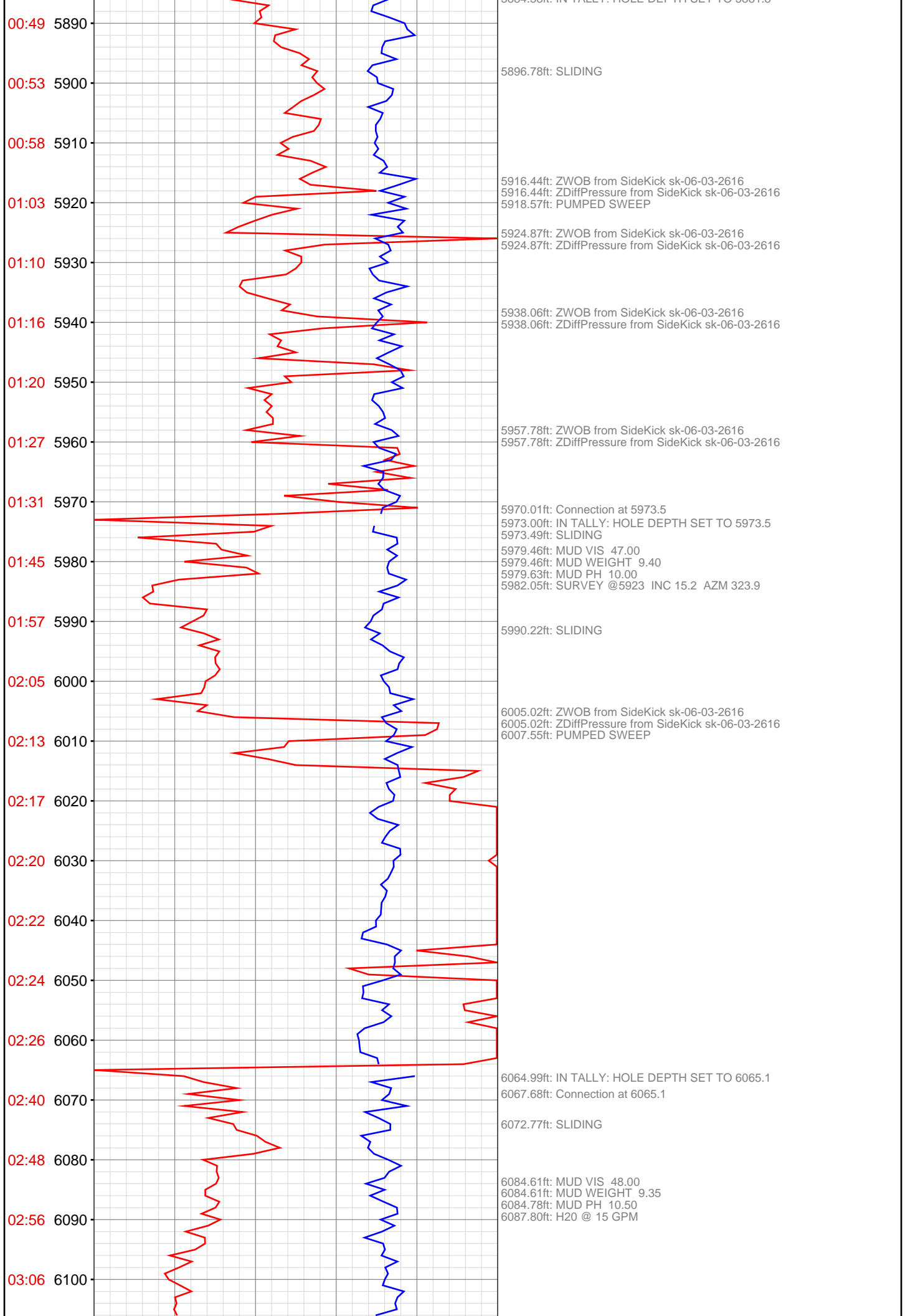


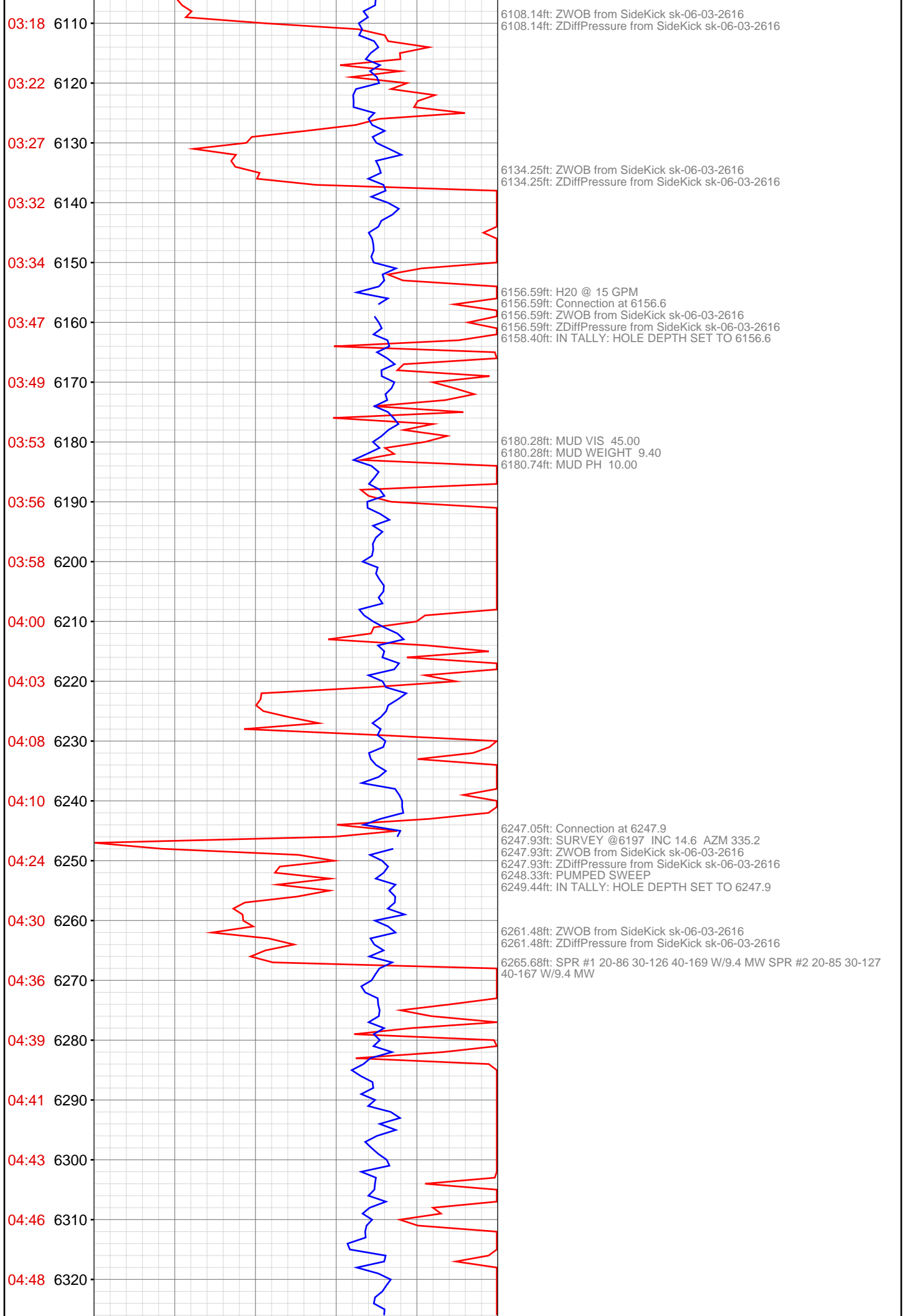


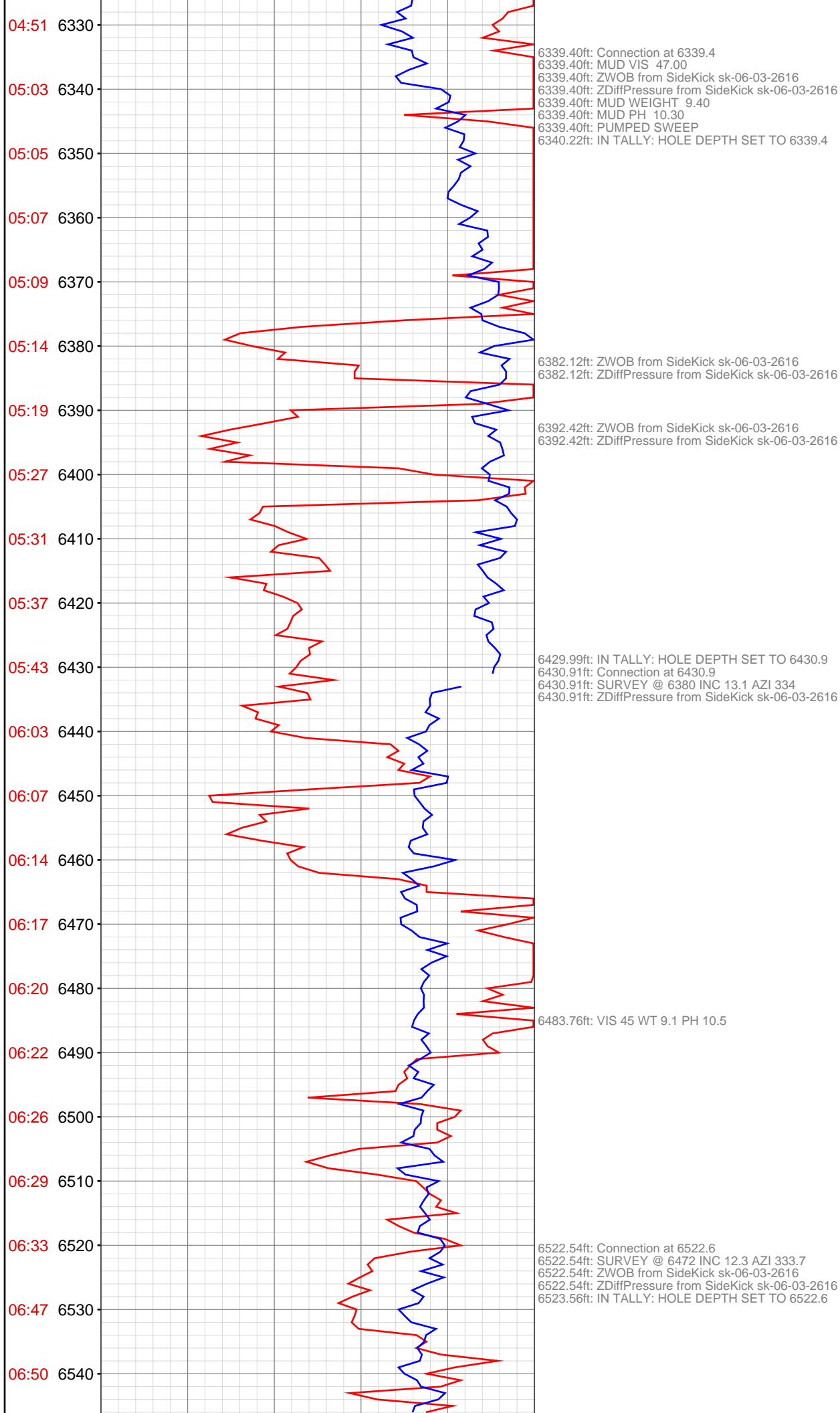


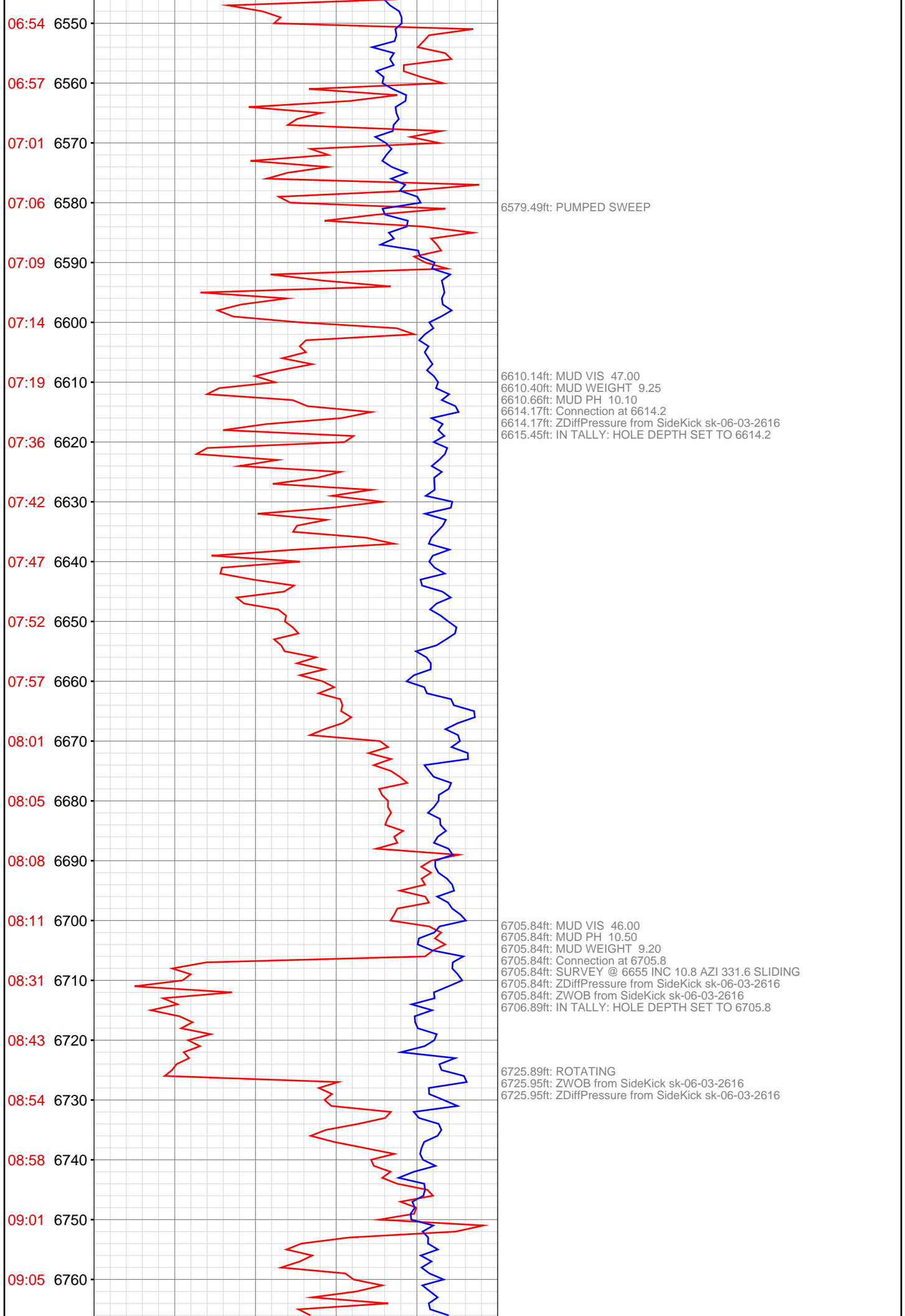


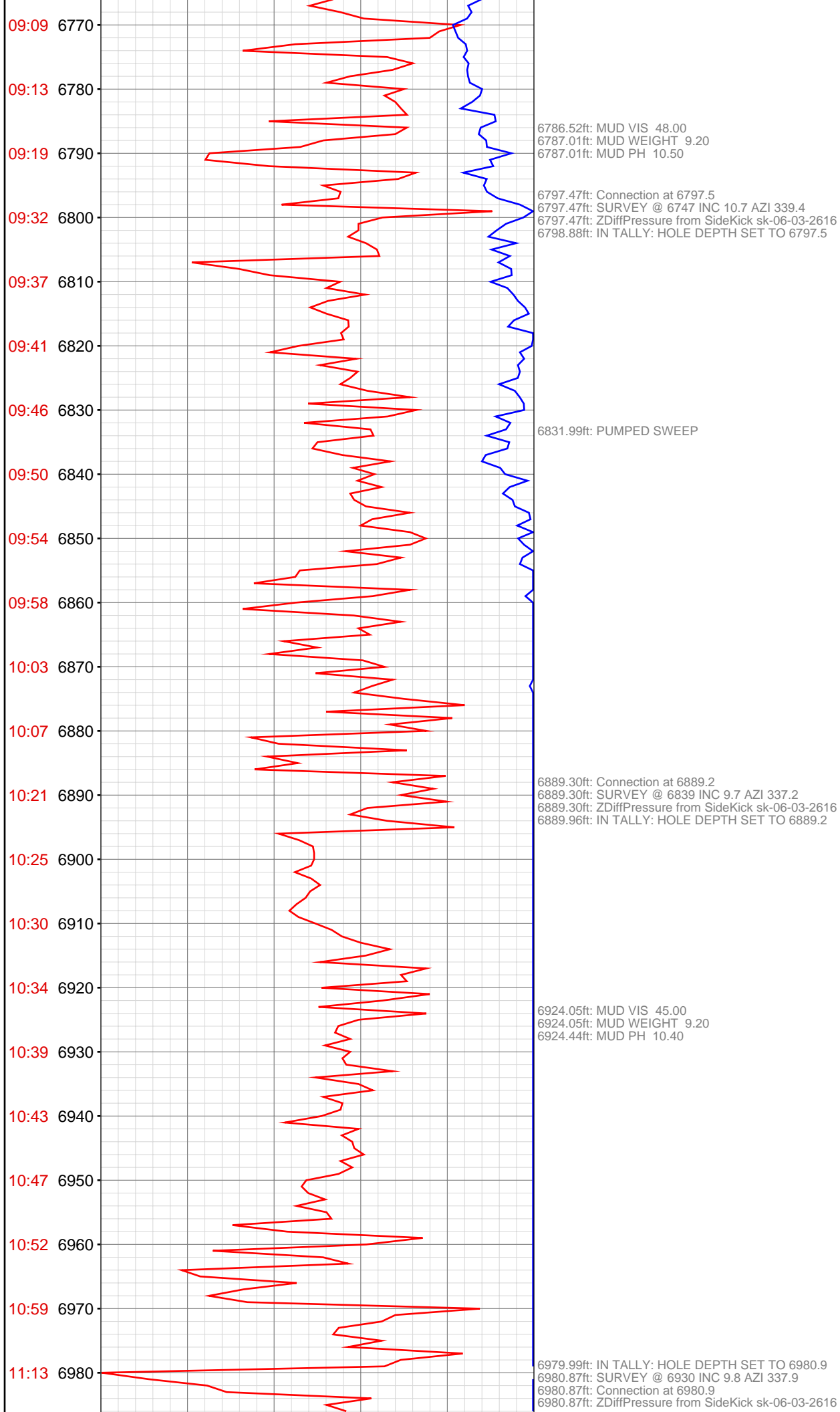


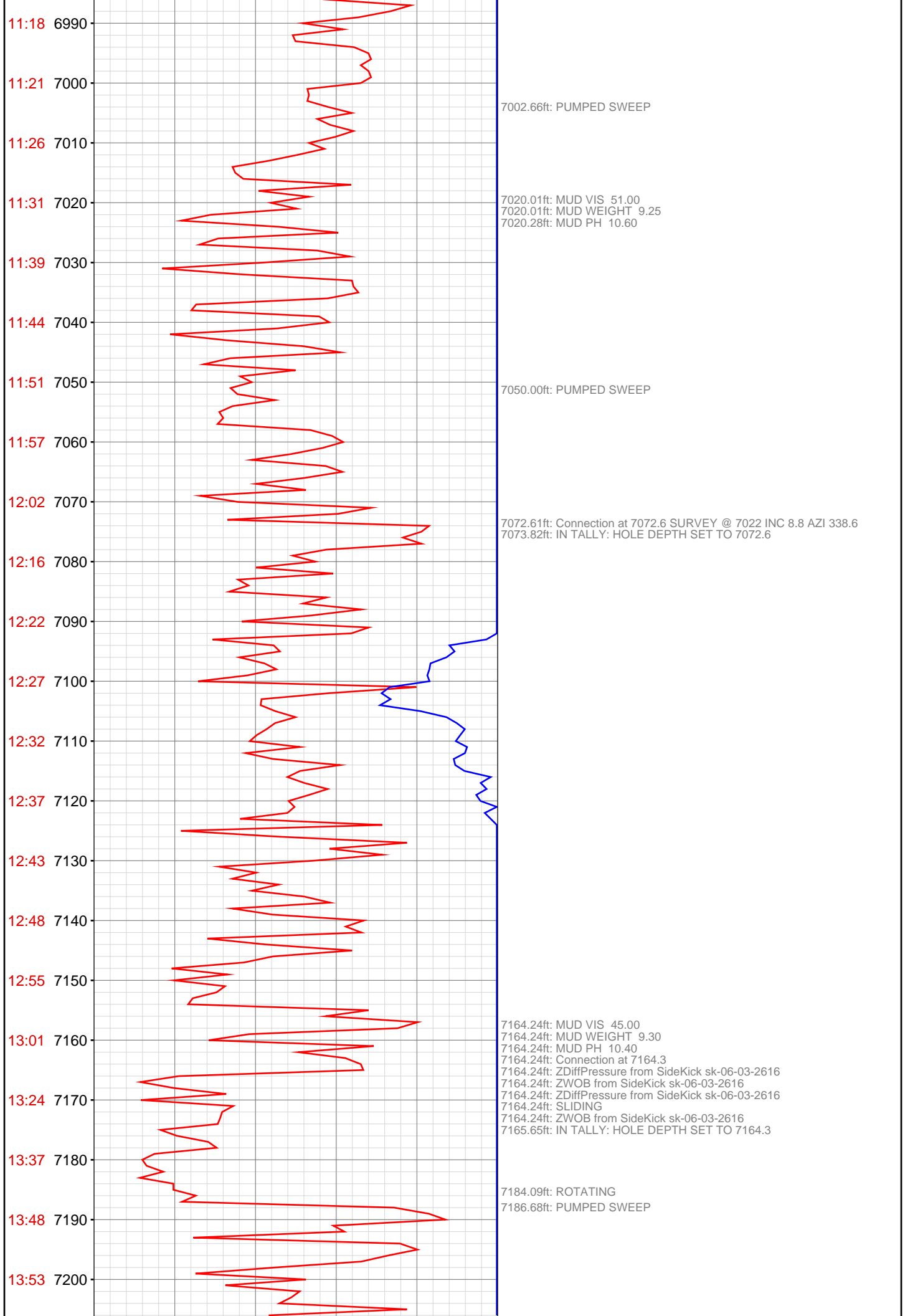


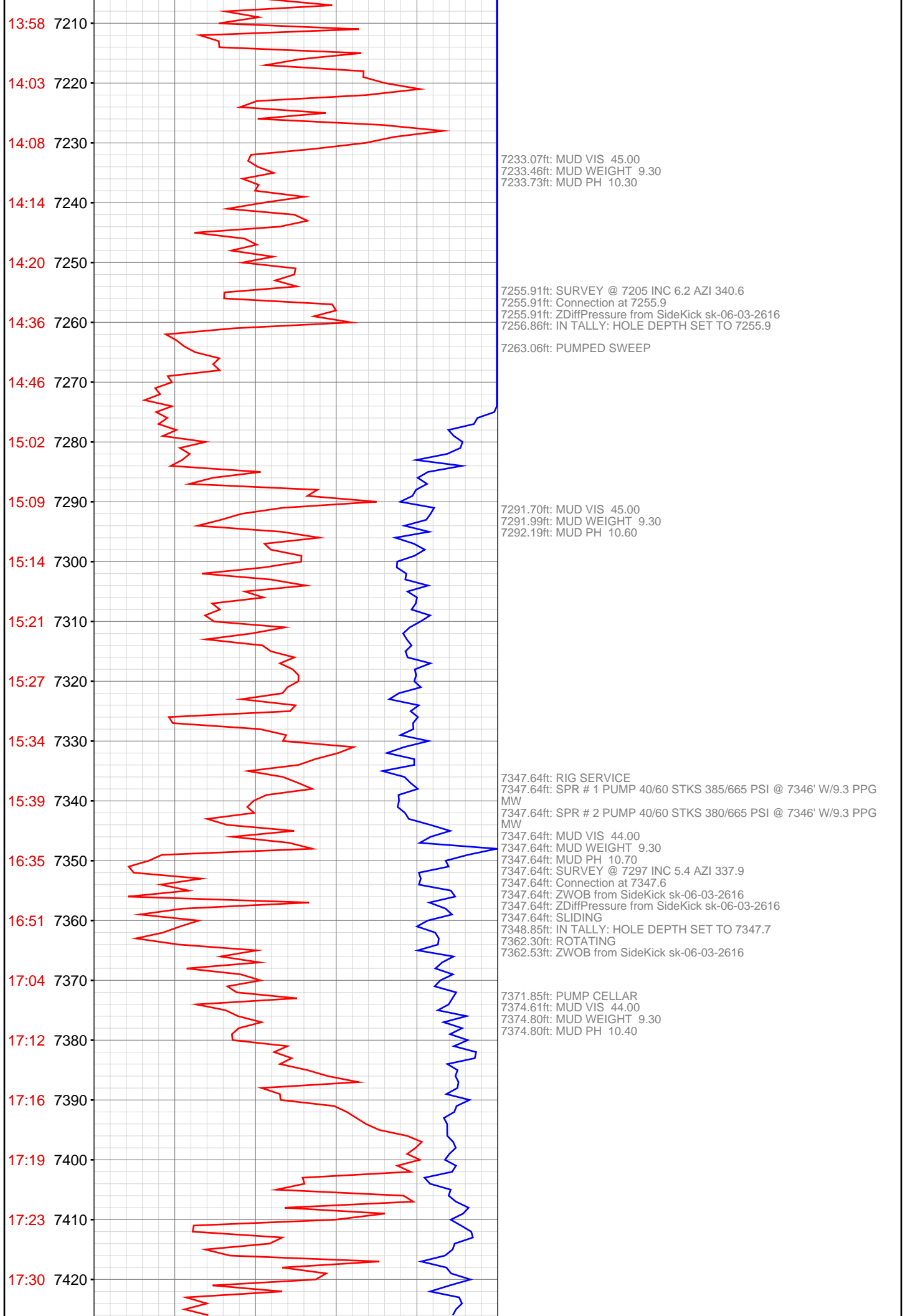


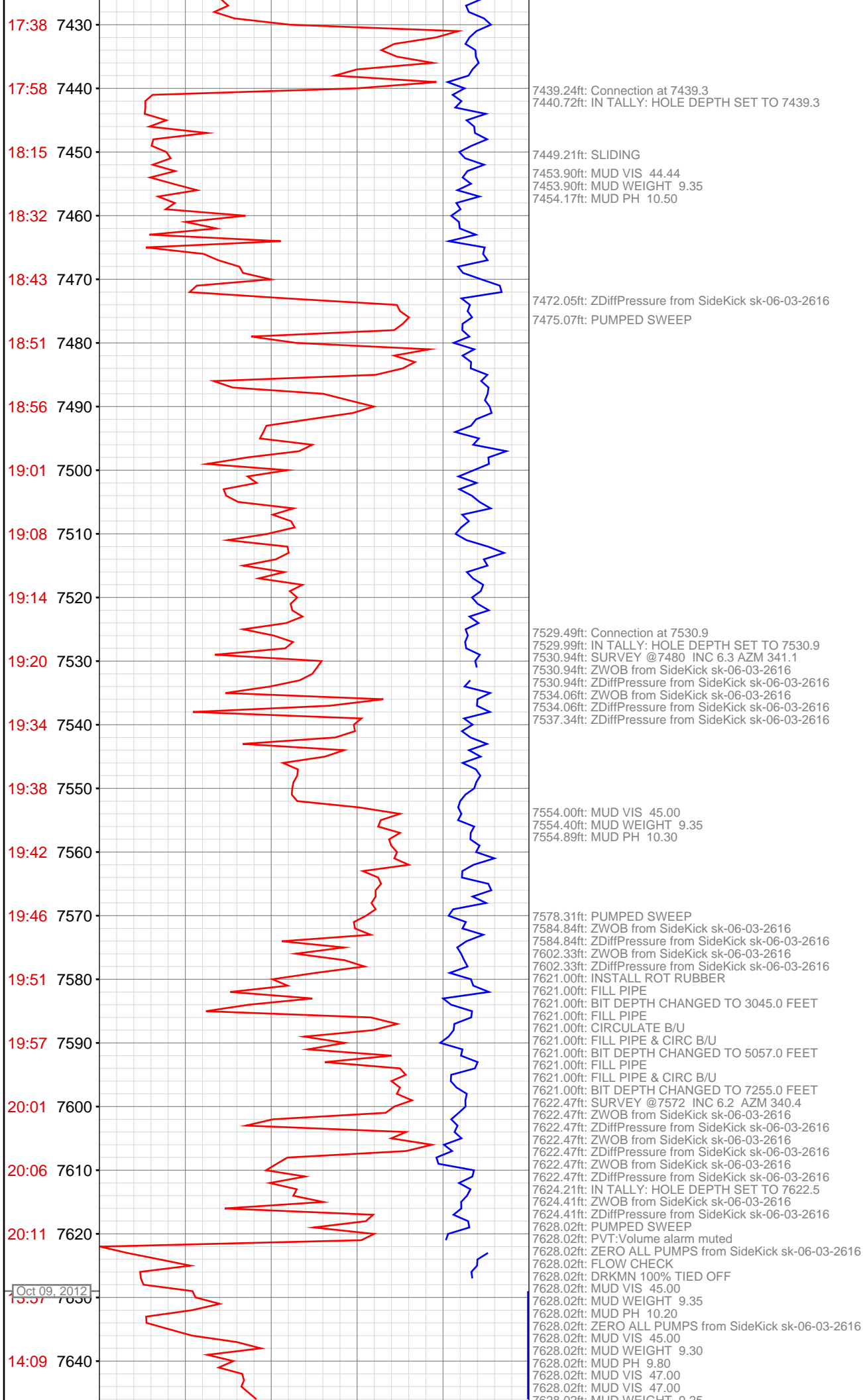




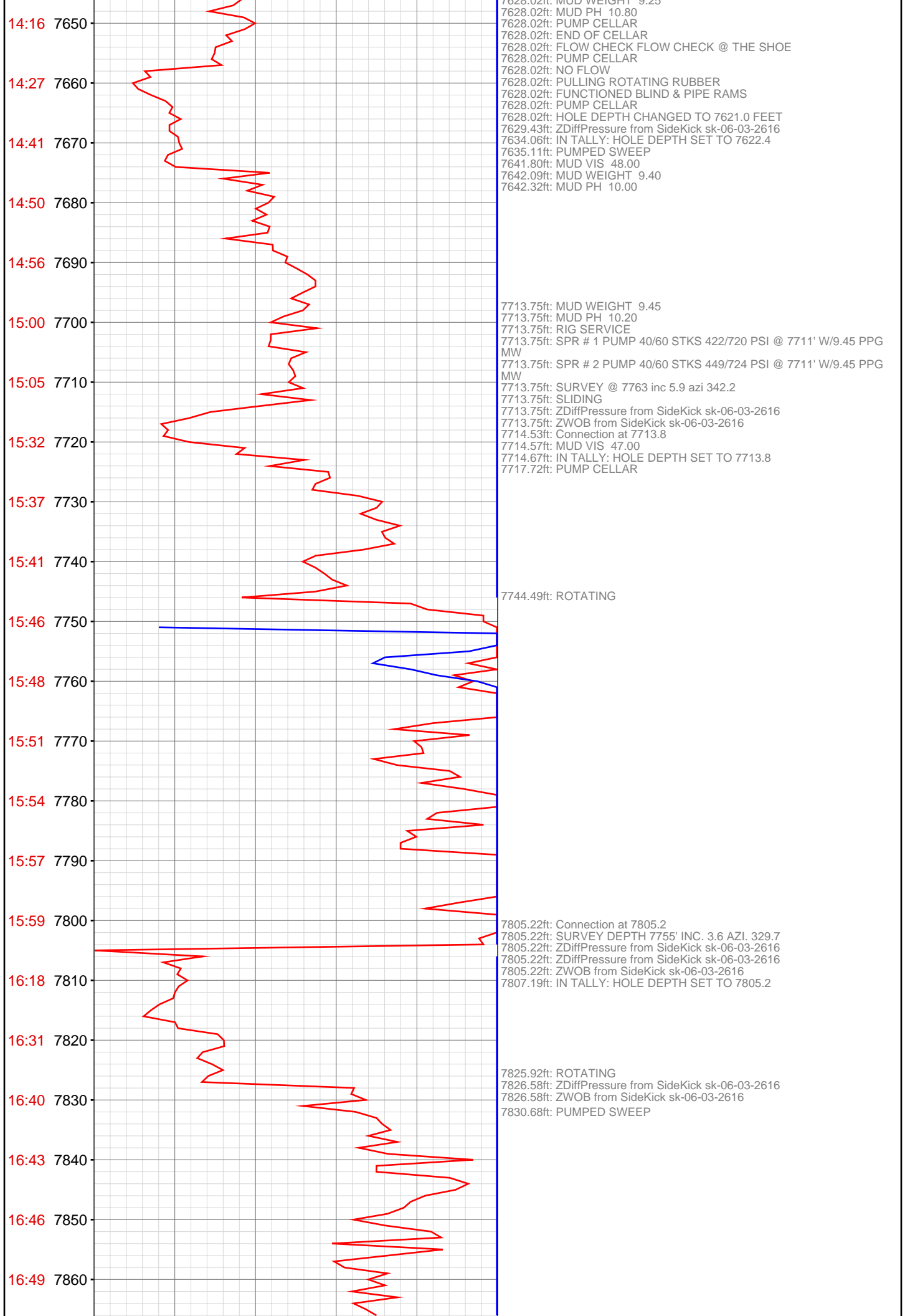


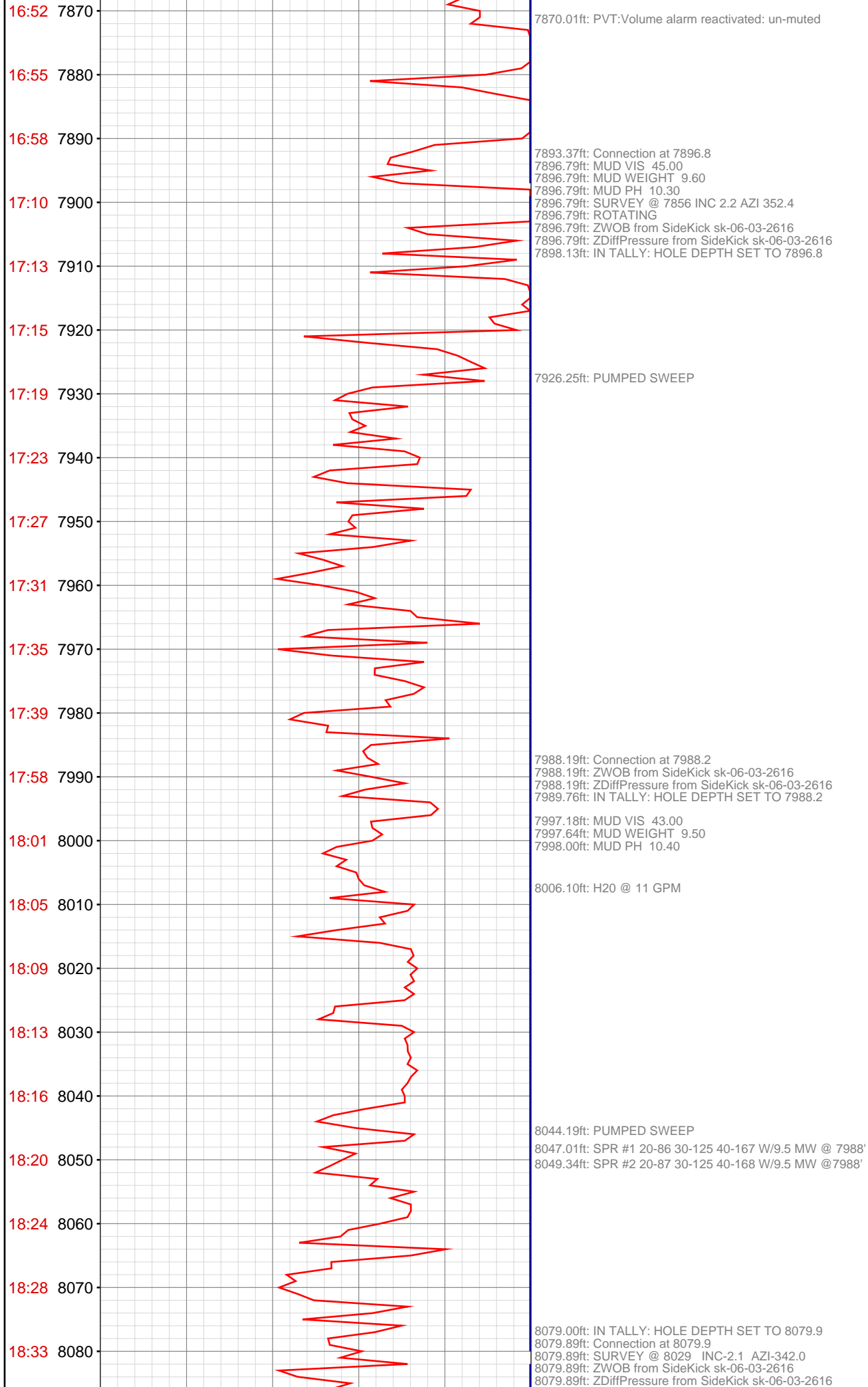












18:48 8090  
18:52 8100  
18:55 8110  
18:58 8120  
19:03 8130  
19:08 8140  
19:13 8150  
19:16 8160  
19:19 8170  
19:36 8180  
19:39 8190  
19:42 8200  
19:45 8210  
19:47 8220  
19:50 8230  
19:53 8240  
19:55 8250  
19:58 8260  
20:20 8270  
20:25 8280  
20:29 8290  
20:34 8300

8091.77ft: PUMPED SWEEP

8143.70ft: ZWOB from SideKick sk-06-03-2616  
8143.70ft: ZDiffPressure from SideKick sk-06-03-2616

8149.38ft: MUD VIS 43.00  
8149.87ft: MUD WEIGHT 9.45  
8150.36ft: MUD PH 10.30

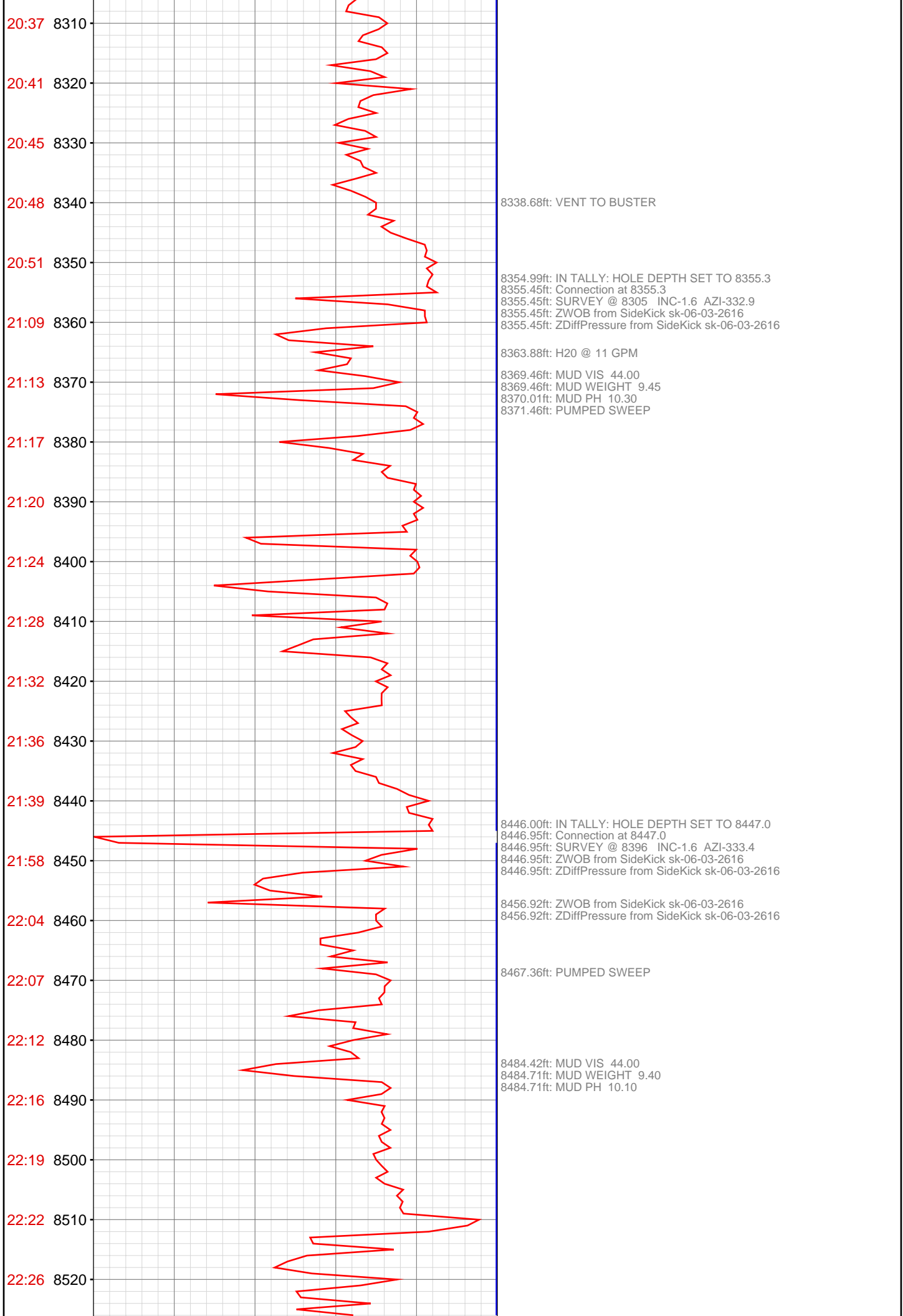
8158.04ft: H2O@ 11 GPM

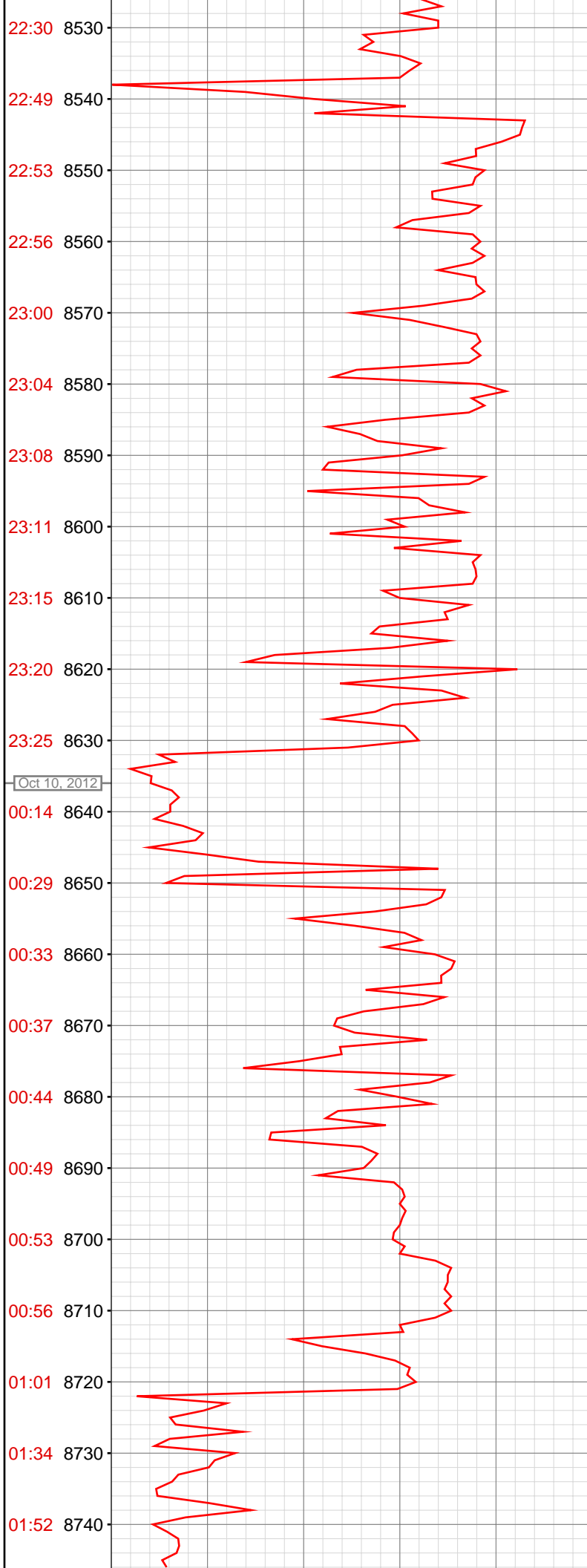
8171.56ft: Connection at 8171.5  
8171.56ft: SURVEY @ 8121 INC-1.9 AZI-343.4  
8171.56ft: ZWOB from SideKick sk-06-03-2616  
8171.56ft: ZDiffPressure from SideKick sk-06-03-2616  
8172.97ft: IN TALLY: HOLE DEPTH SET TO 8171.5  
8173.92ft: ZDiffPressure from SideKick sk-06-03-2616  
8173.92ft: ZWOB from SideKick sk-06-03-2616

8188.78ft: PUMPED SWEEP

8263.45ft: Connection at 8263.5  
8263.45ft: H2O@ 11 GPM  
8263.45ft: MUD VIS 44.00  
8263.45ft: MUD WEIGHT 9.50  
8263.45ft: MUD PH 10.10  
8263.45ft: ZWOB from SideKick sk-06-03-2616  
8263.45ft: ZDiffPressure from SideKick sk-06-03-2616  
8264.57ft: IN TALLY: HOLE DEPTH SET TO 8263.5  
8266.63ft: ZWOB from SideKick sk-06-03-2616  
8266.63ft: ZDiffPressure from SideKick sk-06-03-2616  
8271.33ft: PUMPED SWEEP

8294.46ft: ZWOB from SideKick sk-06-03-2616  
8294.46ft: ZDiffPressure from SideKick sk-06-03-2616





8538.62ft: Connection at 8538.6  
8538.62ft: ZWOB from SideKick sk-06-03-2616  
8538.62ft: ZDiffPressure from SideKick sk-06-03-2616  
8539.99ft: IN TALLY: HOLE DEPTH SET TO 8538.6  
8541.77ft: ZWOB from SideKick sk-06-03-2616  
8541.77ft: ZDiffPressure from SideKick sk-06-03-2616

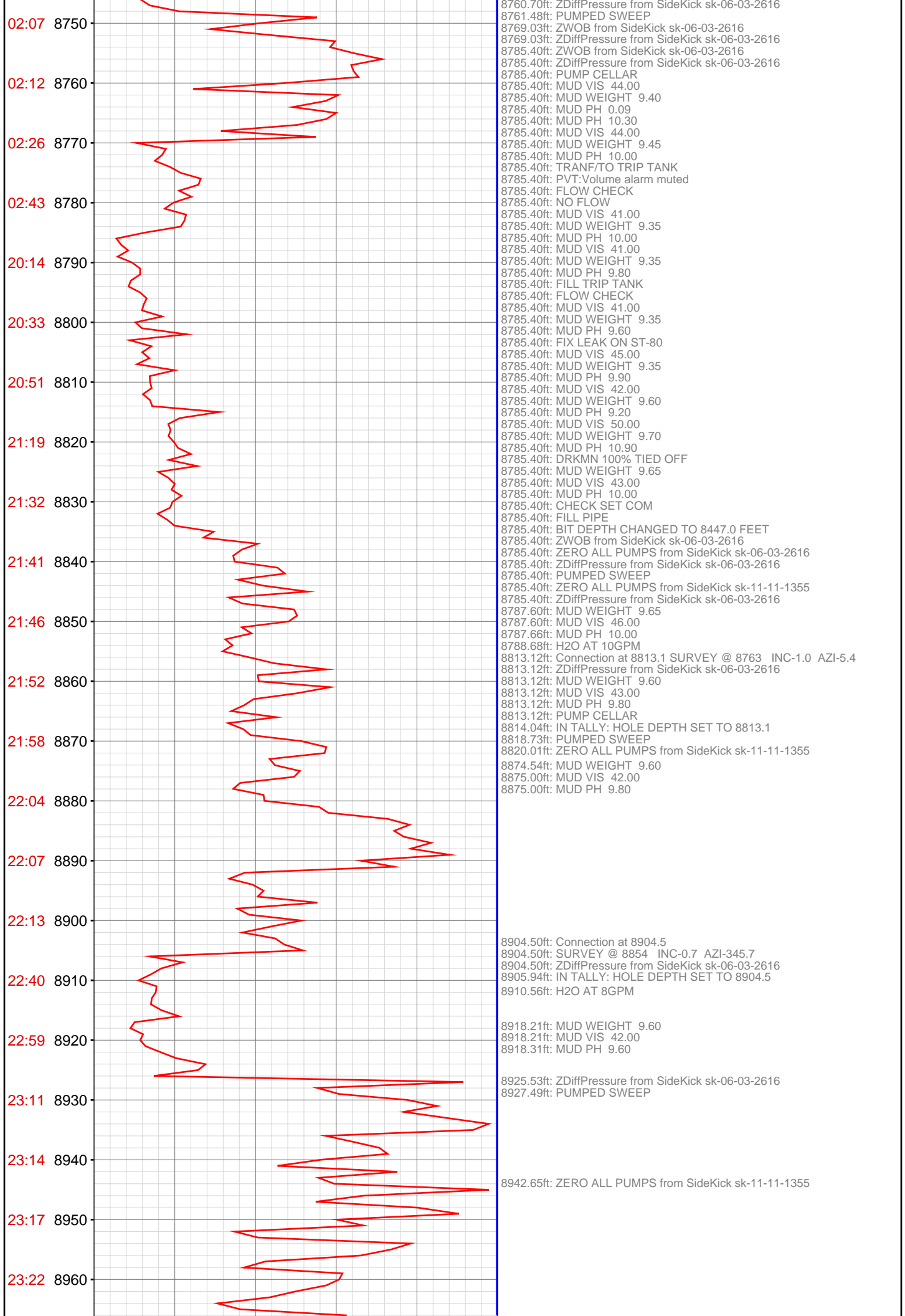
8618.57ft: ZWOB from SideKick sk-06-03-2616  
8618.57ft: ZDiffPressure from SideKick sk-06-03-2616  
8630.02ft: Connection at 8630.0  
8630.02ft: MUD VIS 43.00  
8630.02ft: MUD WEIGHT 9.40  
8630.02ft: MUD PH 10.00  
8630.02ft: H2O @ 11 GPM  
8630.02ft: ZWOB from SideKick sk-06-03-2616  
8630.02ft: ZDiffPressure from SideKick sk-06-03-2616  
8630.02ft: SURVEY @ 8580 INC-1.3 AZI-339.5  
8631.73ft: IN TALLY: HOLE DEPTH SET TO 8630.0  
8635.11ft: SLIDING

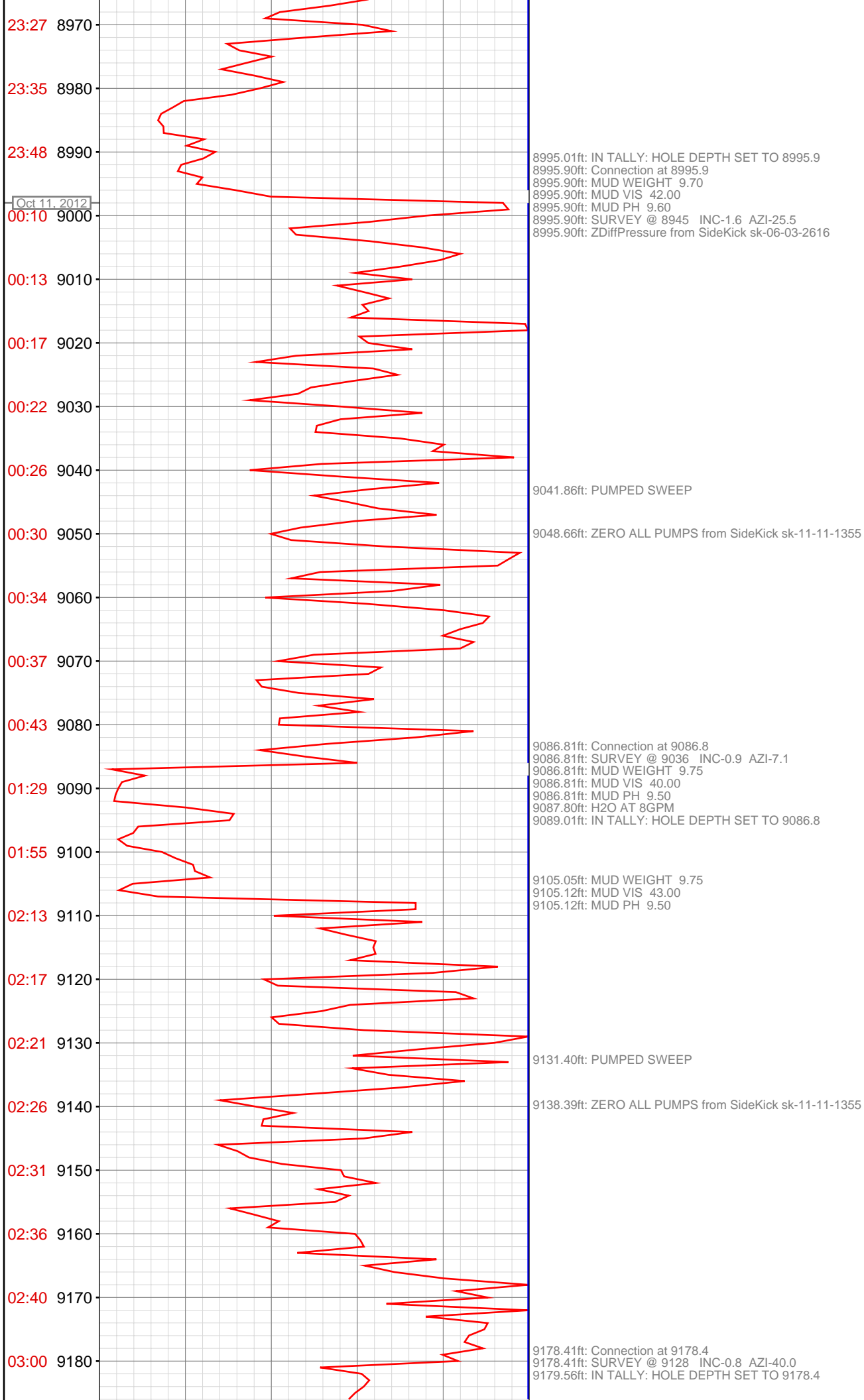
8646.03ft: ZDiffPressure from SideKick sk-06-03-2616  
8646.03ft: ZWOB from SideKick sk-06-03-2616  
8648.06ft: PUMPED SWEEP  
8649.57ft: ZWOB from SideKick sk-06-03-2616  
8649.57ft: ZDiffPressure from SideKick sk-06-03-2616  
8650.16ft: PVT:Volume alarm muted  
8652.00ft: TRANSFERRED 40.00

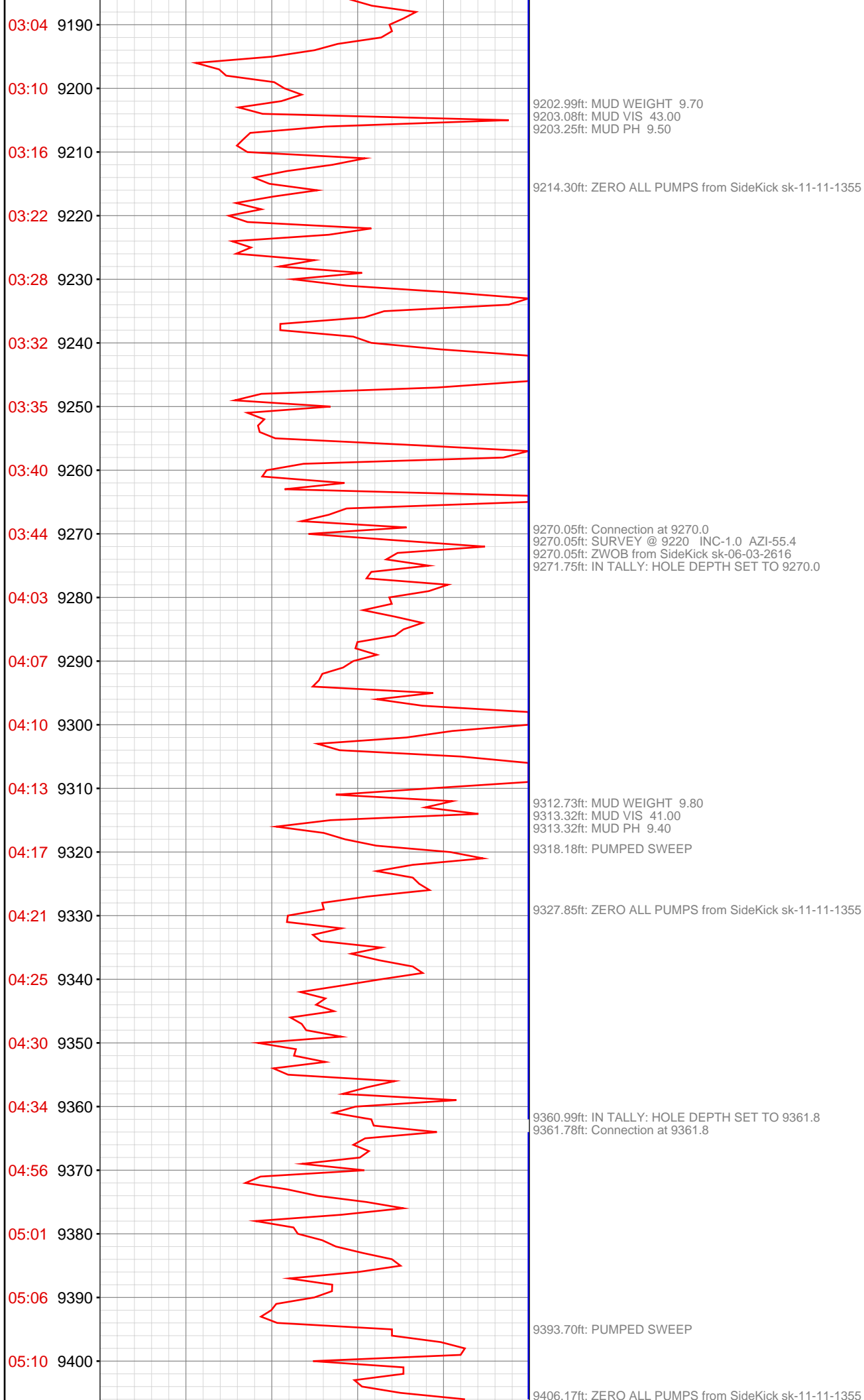
8675.36ft: ZWOB from SideKick sk-06-03-2616  
8675.36ft: ZDiffPressure from SideKick sk-06-03-2616

8701.74ft: H2O @ 11 GPM

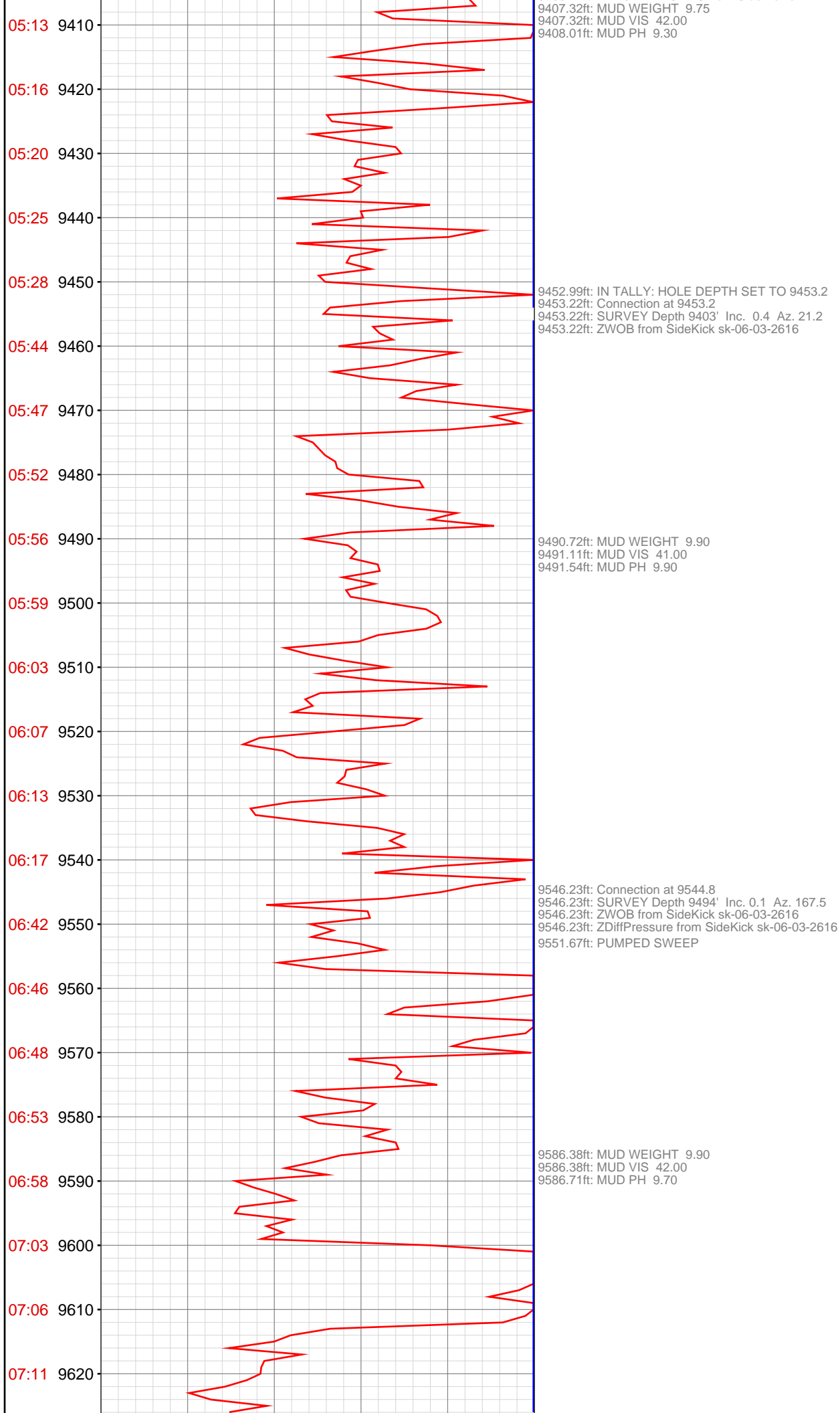
8707.97ft: MUD VIS 45.00  
8707.97ft: MUD WEIGHT 9.40  
8708.46ft: MUD PH 10.60  
8721.10ft: IN TALLY: HOLE DEPTH SET TO 8721.9  
8721.85ft: Connection at 8721.9  
8721.85ft: PVT:Volume alarm reactivated: un-muted  
8721.85ft: ZWOB from SideKick sk-06-03-2616  
8721.85ft: ZDiffPressure from SideKick sk-06-03-2616  
8721.92ft: ZDiffPressure from SideKick sk-06-03-2616  
8721.92ft: ZWOB from SideKick sk-06-03-2616  
8722.05ft: SLIDING  
8743.44ft: H2O @ 11 GPM  
8744.55ft: MUD VIS 43.00  
8744.55ft: MUD WEIGHT 9.40  
8744.62ft: MUD PH 10.10  
8747.74ft: ZWOB from SideKick sk-06-03-2616  
8747.74ft: ZDiffPressure from SideKick sk-06-03-2616  
8751.02ft: ZWOB from SideKick sk-06-03-2616  
8751.02ft: ZDiffPressure from SideKick sk-06-03-2616  
8760.70ft: ZWOB from SideKick sk-06-03-2616

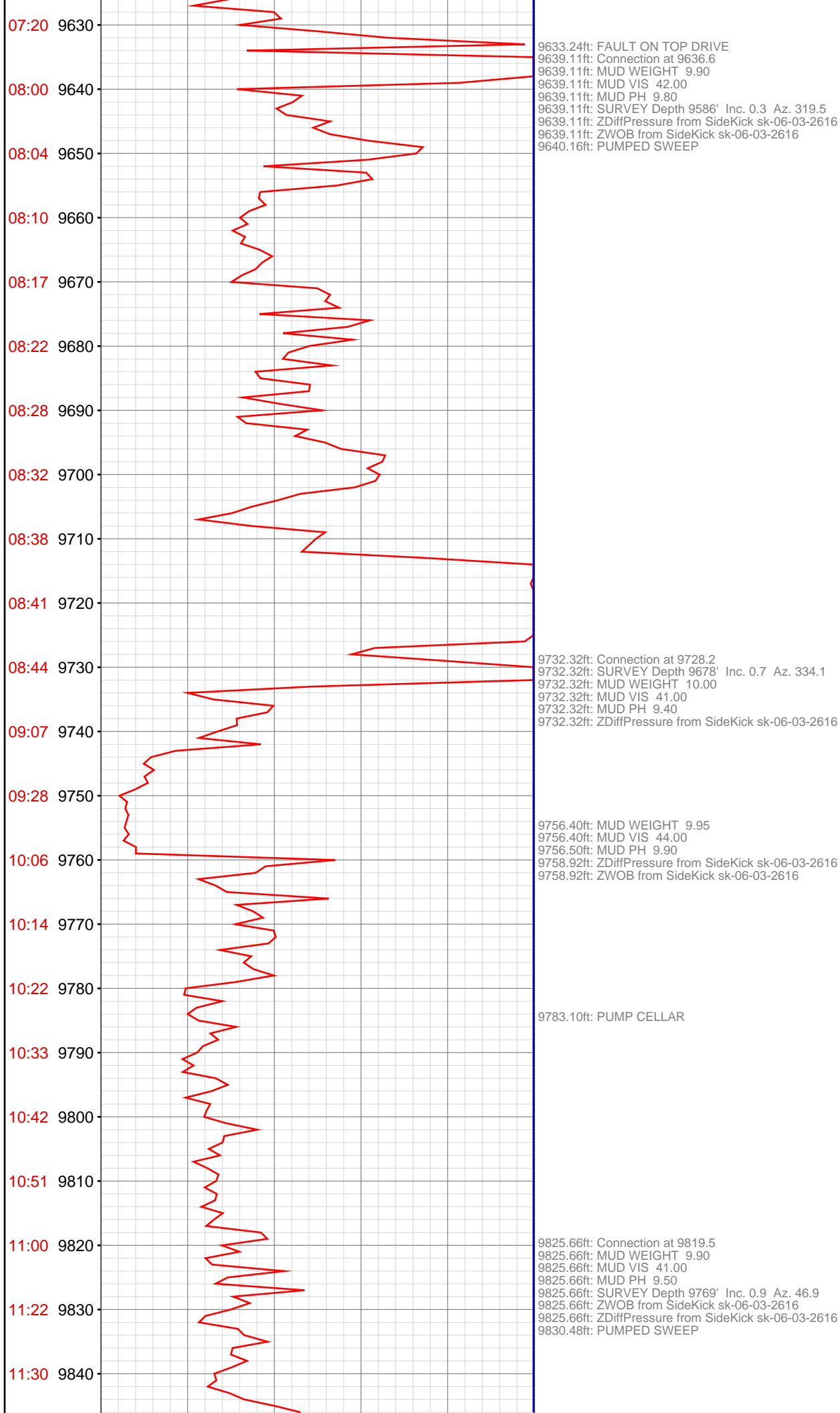








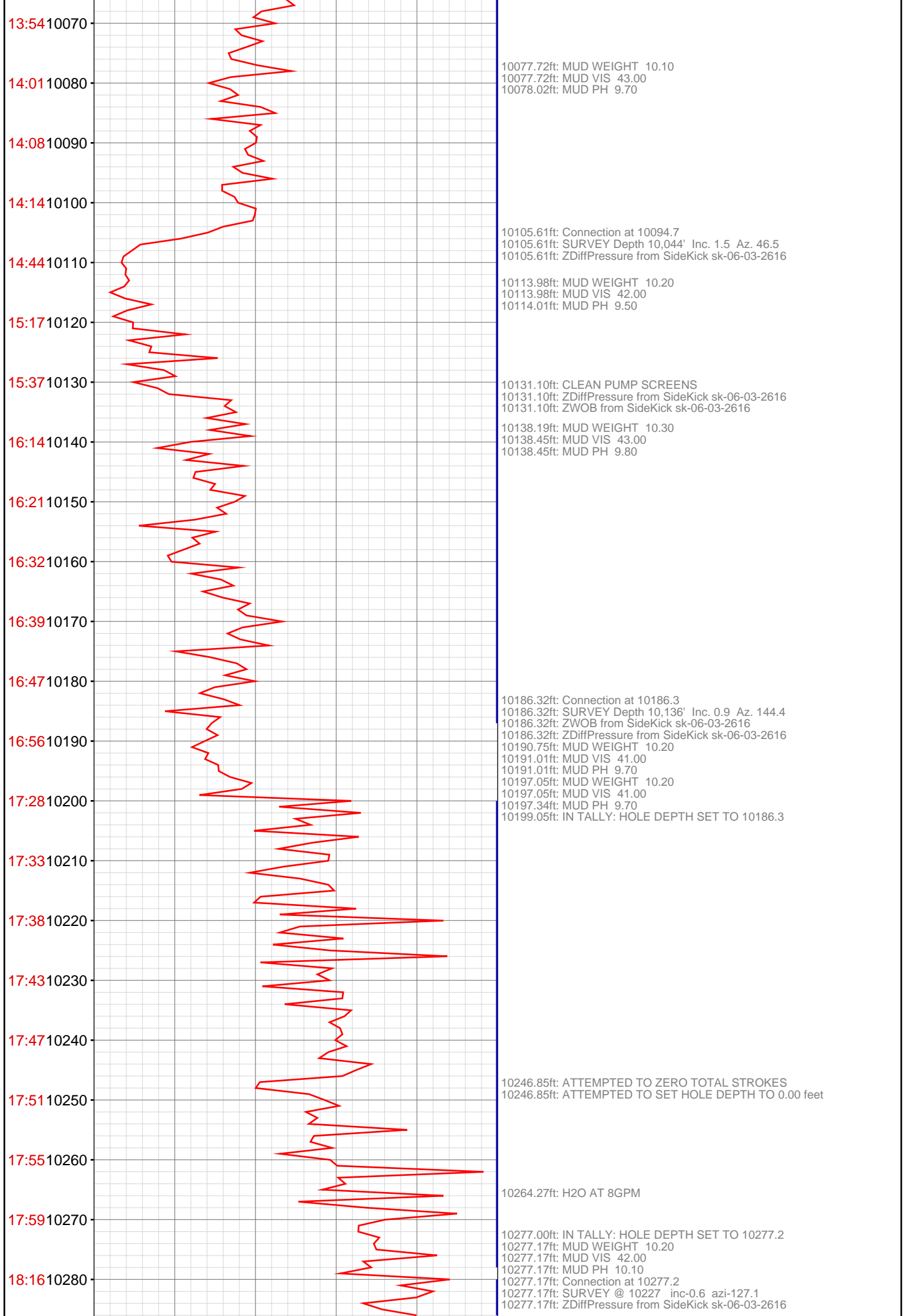


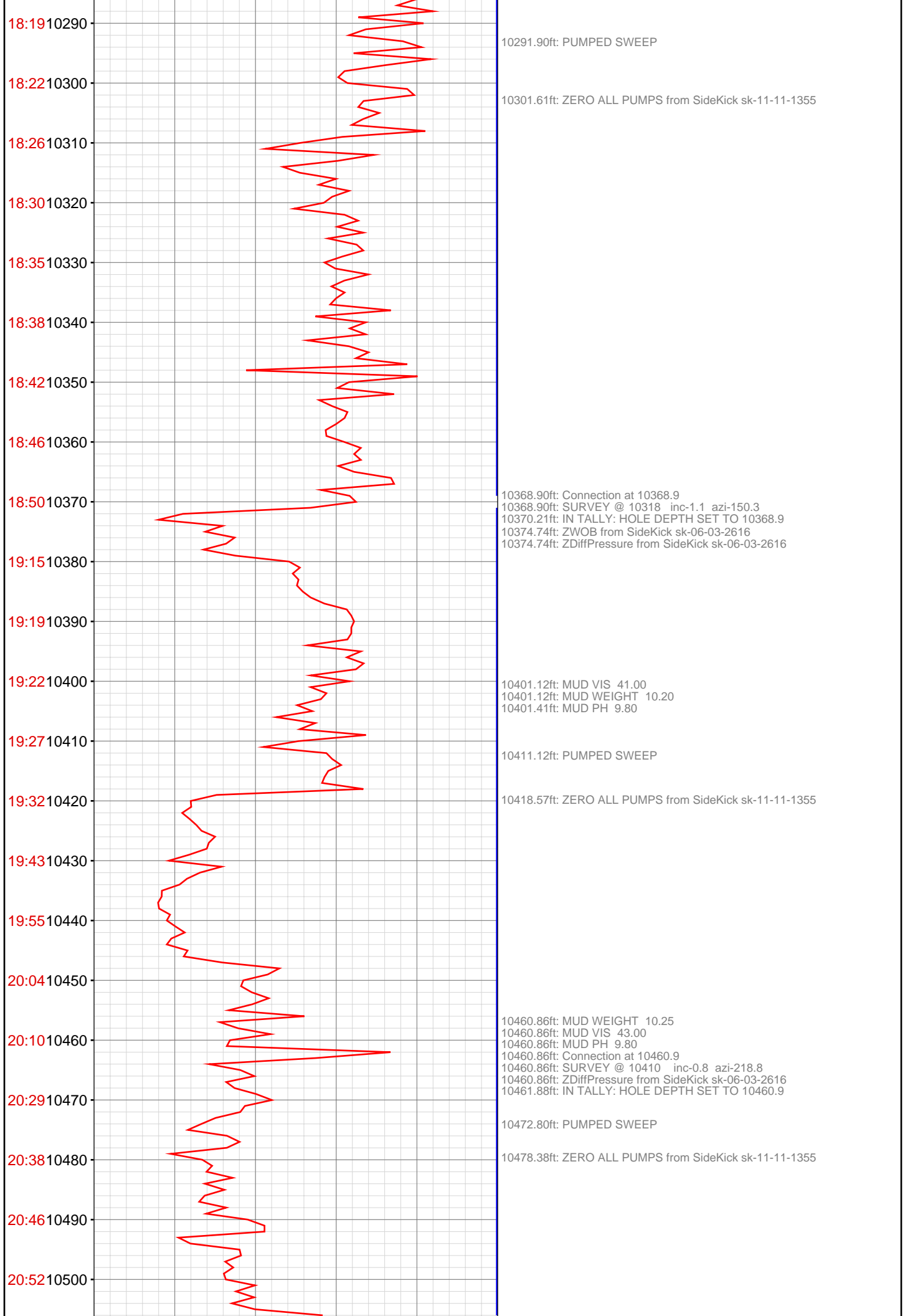


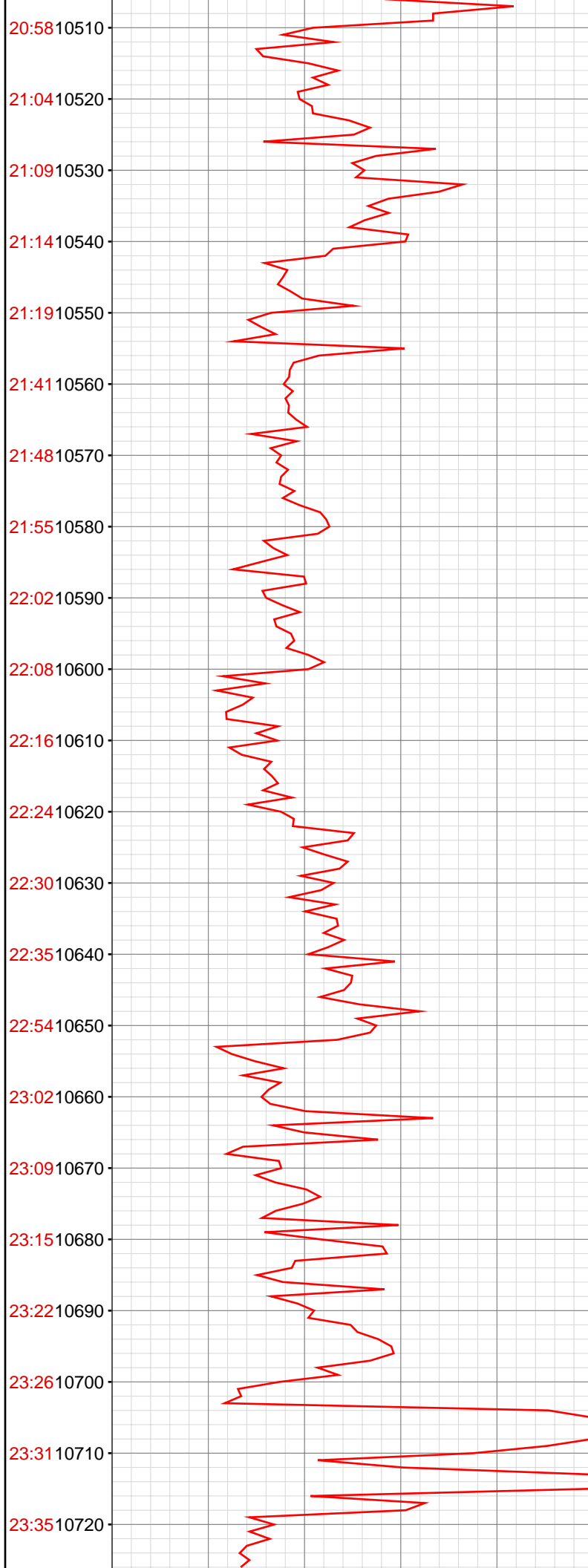


9919.09ft: MUD WEIGHT 9.95  
9919.09ft: MUD VIS 42.00  
9919.09ft: MUD PH 9.30  
9919.09ft: Connection at 9911.1  
9919.09ft: SURVEY Depth 9861' Inc. 1.9 Az. 60.5  
9919.09ft: ZDiffPressure from SideKick sk-06-03-2616  
9919.09ft: ZWOB from SideKick sk-06-03-2616

10012.27ft: MUD WEIGHT 10.00  
10012.27ft: MUD VIS 41.00  
10012.27ft: MUD PH 9.30  
10012.27ft: Connection at 10002.7  
10012.27ft: SURVEY Depth 9952' Inc. 1.3 Az. 68.7  
10012.27ft: ZWOB from SideKick sk-06-03-2616  
10012.27ft: ZDiffPressure from SideKick sk-06-03-2616  
10016.40ft: PUMPED SWEEP







10550.30ft: MUD WEIGHT 10.30  
10550.49ft: MUD VIS 42.00  
10550.89ft: MUD PH 9.70  
10552.00ft: IN TALLY: HOLE DEPTH SET TO 10552.7  
10552.69ft: Connection at 10552.7  
10552.69ft: SURVEY @ 10502 inc-1.0 azi-231.8

10562.27ft: PUMPED SWEEP  
10566.50ft: ZERO ALL PUMPS from SideKick sk-11-11-1355

10599.18ft: MUD WEIGHT 10.30  
10599.18ft: MUD VIS 44.00  
10599.51ft: MUD PH 9.70

10644.00ft: IN TALLY: HOLE DEPTH SET TO 10644.2  
10644.19ft: Connection at 10644.2  
10644.19ft: SURVEY @ 10594 inc-0.6 azi-246.5

10673.03ft: MUD WEIGHT 10.30  
10673.33ft: MUD VIS 43.00  
10673.33ft: MUD PH 9.60  
10675.95ft: PUMPED SWEEP

10681.99ft: ZERO ALL PUMPS from SideKick sk-11-11-1355

23:45 10730

Oct 12, 2012  
00:08 10740

00:14 10750

00:21 10760

00:28 10770

00:35 10780

00:39 10790

00:47 10800

00:56 10810

01:06 10820

01:30 10830

01:39 10840

01:46 10850

01:55 10860

02:03 10870

02:10 10880

02:17 10890

02:25 10900

02:32 10910

02:39 10920

03:03 10930

03:10 10940

10736.12ft: Connection at 10736.1  
10736.12ft: SURVEY @ 10686 inc-0.4 azi-194.0  
10736.12ft: ZDiffPressure from SideKick sk-06-03-2616  
10737.57ft: IN TALLY: HOLE DEPTH SET TO 10736.1  
10738.75ft: MUD WEIGHT 10.40  
10739.01ft: MUD VIS 42.00  
10739.01ft: MUD PH 10.00

10761.98ft: PUMPED SWEEP

10766.34ft: ZERO ALL PUMPS from SideKick sk-11-11-1355

10820.83ft: MUD WEIGHT 10.40  
10821.00ft: MUD VIS 44.00  
10821.03ft: MUD PH 10.00  
10827.66ft: Connection at 10827.7  
10827.66ft: SURVEY @ 10777 inc-0.2 azi-295.4  
10827.66ft: ZWOB from SideKick sk-06-03-2616  
10828.58ft: IN TALLY: HOLE DEPTH SET TO 10827.7

10849.41ft: PUMPED SWEEP  
10851.31ft: ZERO ALL PUMPS from SideKick sk-11-11-1355

10884.65ft: MUD WEIGHT 10.40  
10884.84ft: MUD VIS 43.00  
10885.01ft: MUD PH 9.80

10919.09ft: Connection at 10919.1  
10919.09ft: SURVEY @ 10919 inc-0.3 azi-46.6 SURVEY DEPTH  
CORRECTED 10869'  
10919.09ft: MUD WEIGHT 10.40  
10919.09ft: MUD VIS 42.00  
10919.09ft: MUD PH 9.90  
10920.60ft: IN TALLY: HOLE DEPTH SET TO 10919.1

10938.98ft: PUMPED SWEEP  
10940.13ft: ZERO ALL PUMPS from SideKick sk-11-11-1355

