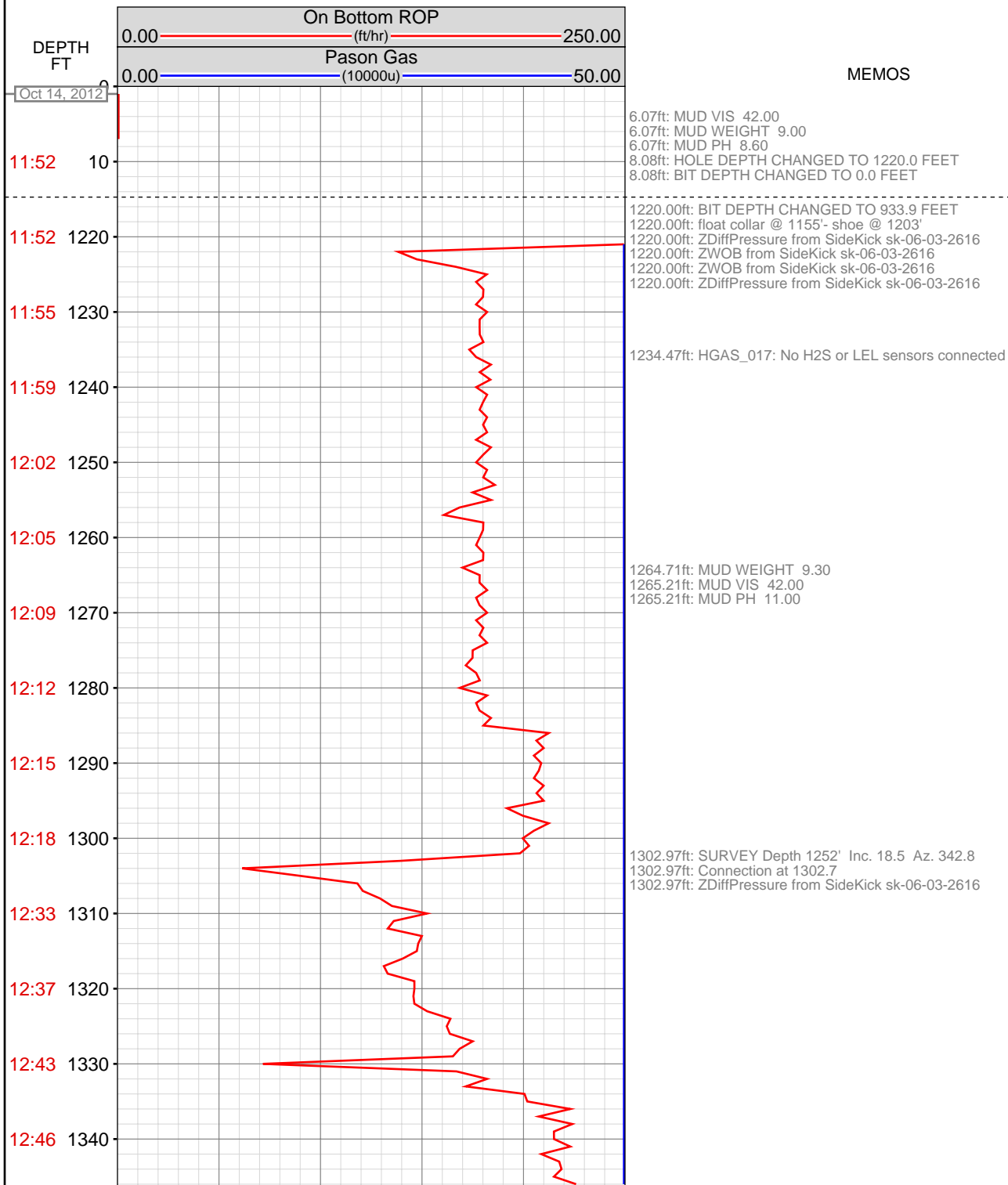


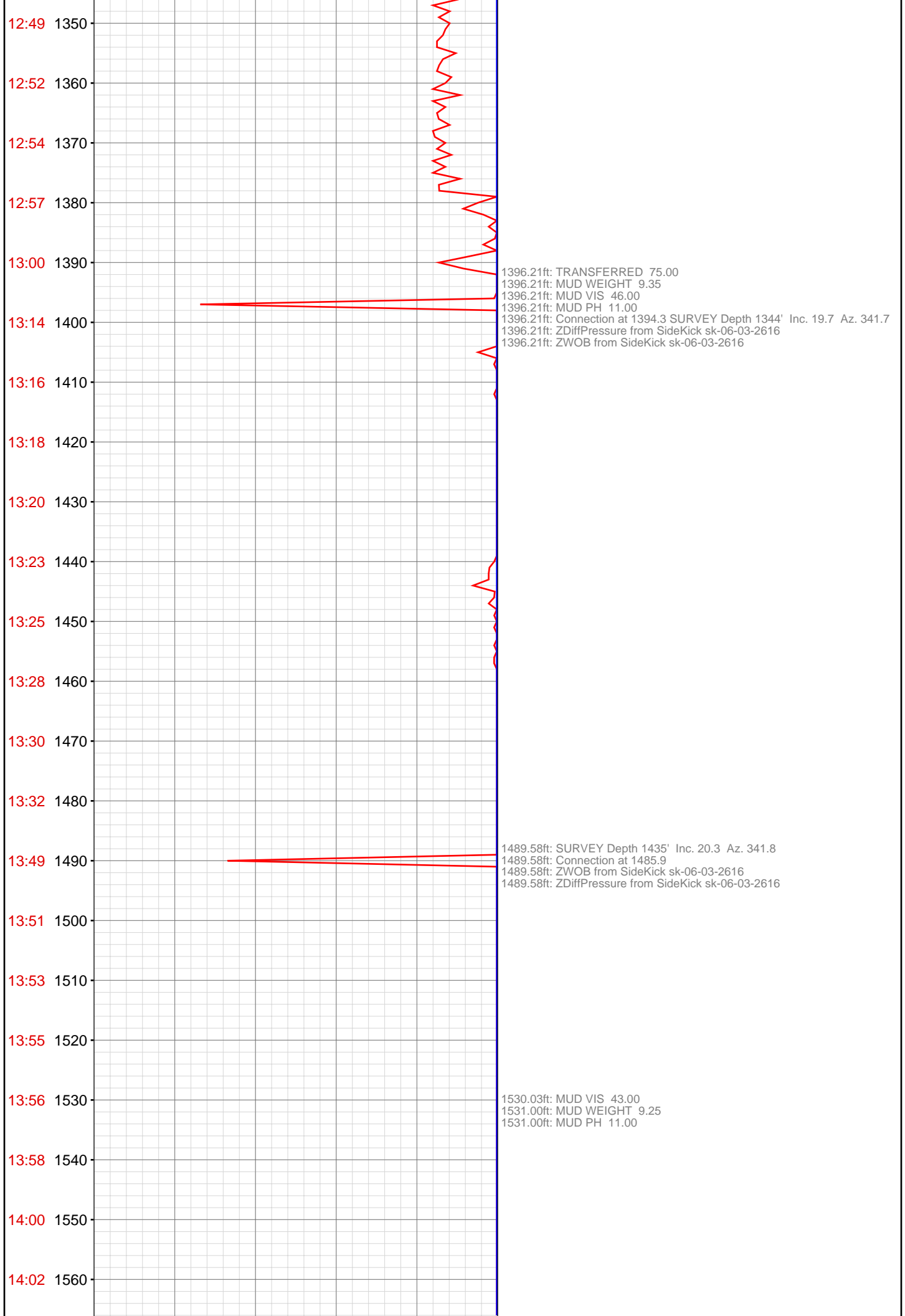
DataHub EDR Log

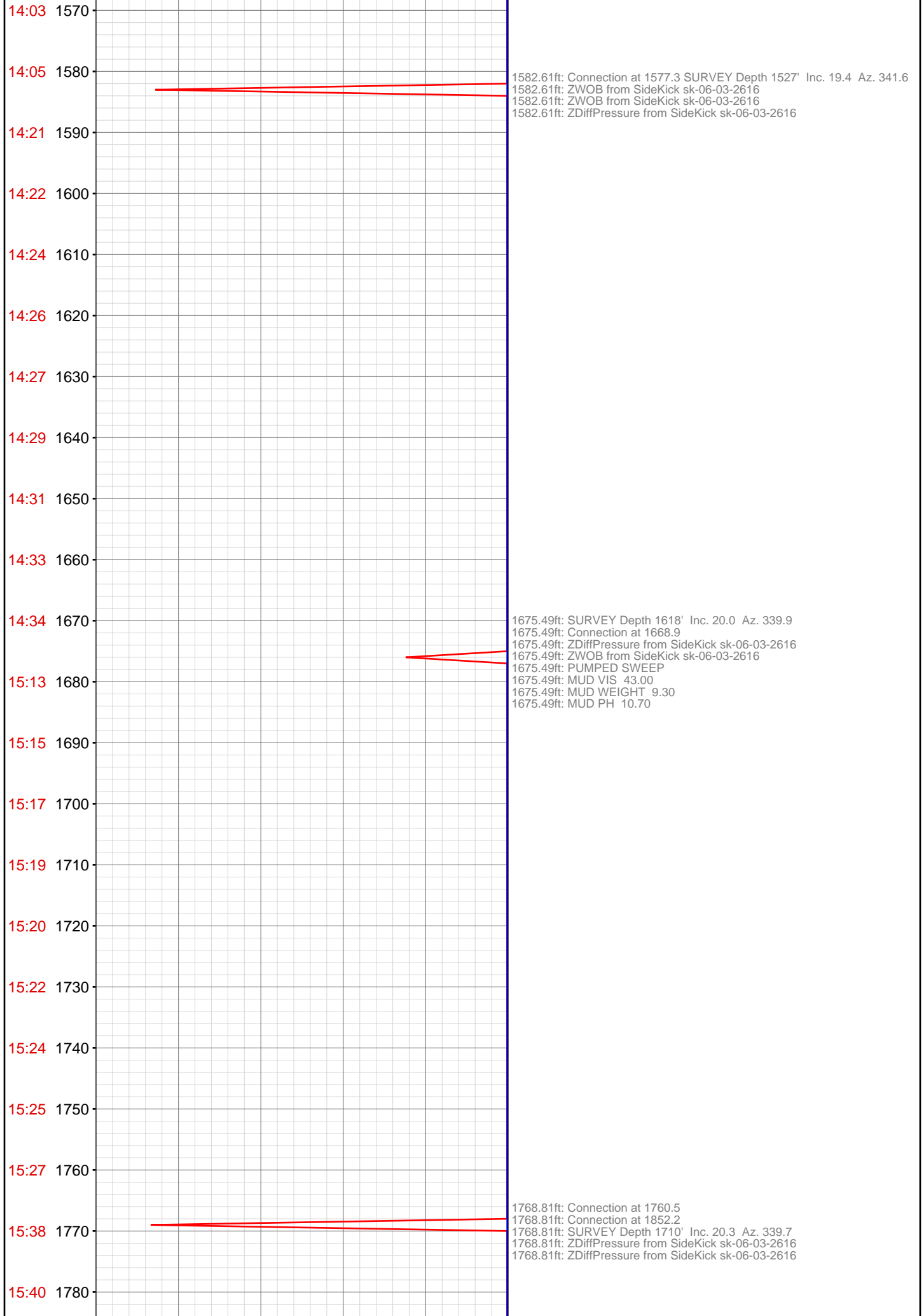
Wed Oct 24, 2012 10:32:17
Well Dossier 1350185863
Greg Veregin

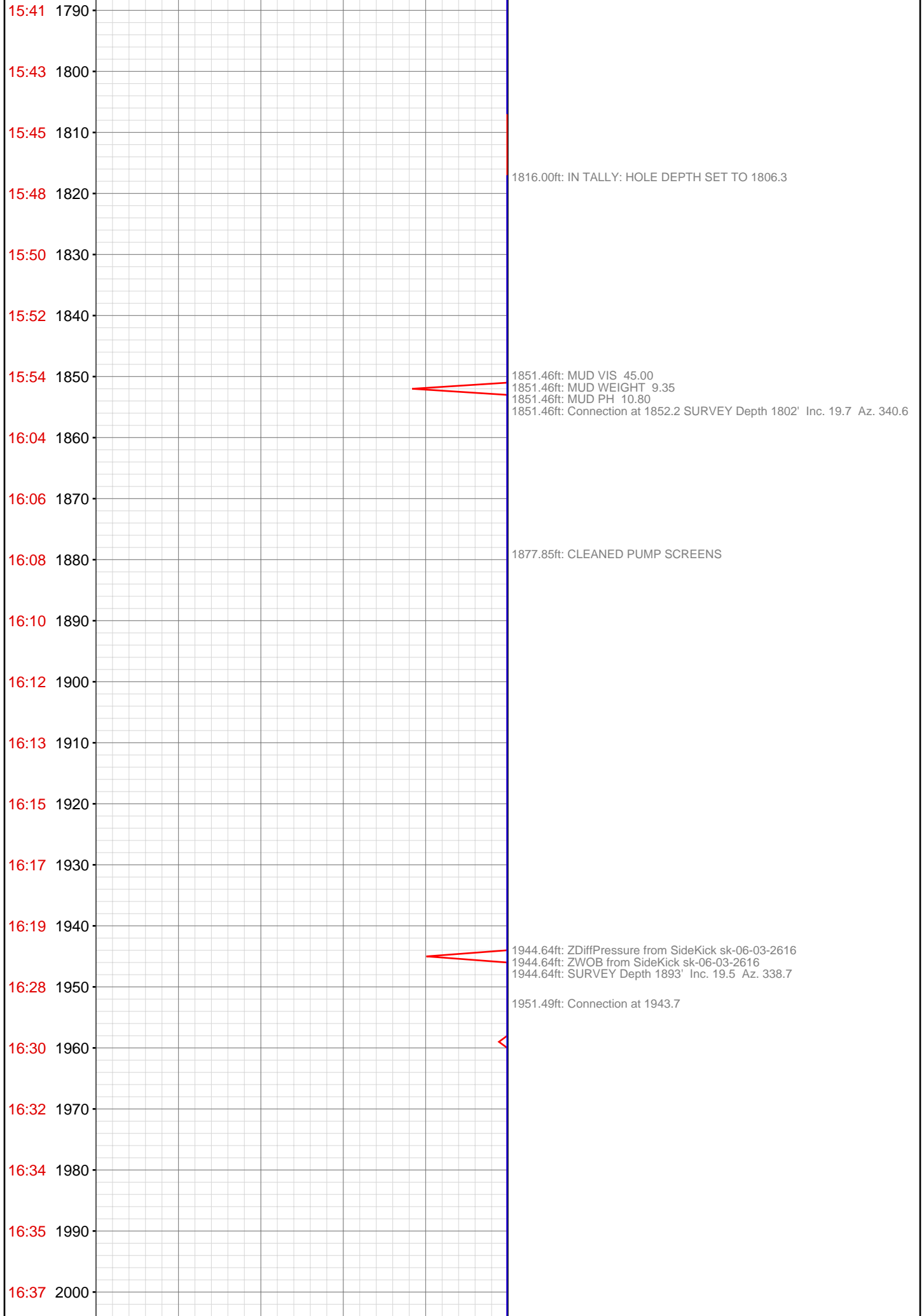
OPERATOR: EnCana Oil & Gas (USA), Inc.
WELL: MCU fee 16-5C
FIELD:
LOCATION: SE/SM SEC 16 TS7S RG93W
COUNTRY: USA
RIG: Pat-UTI 308

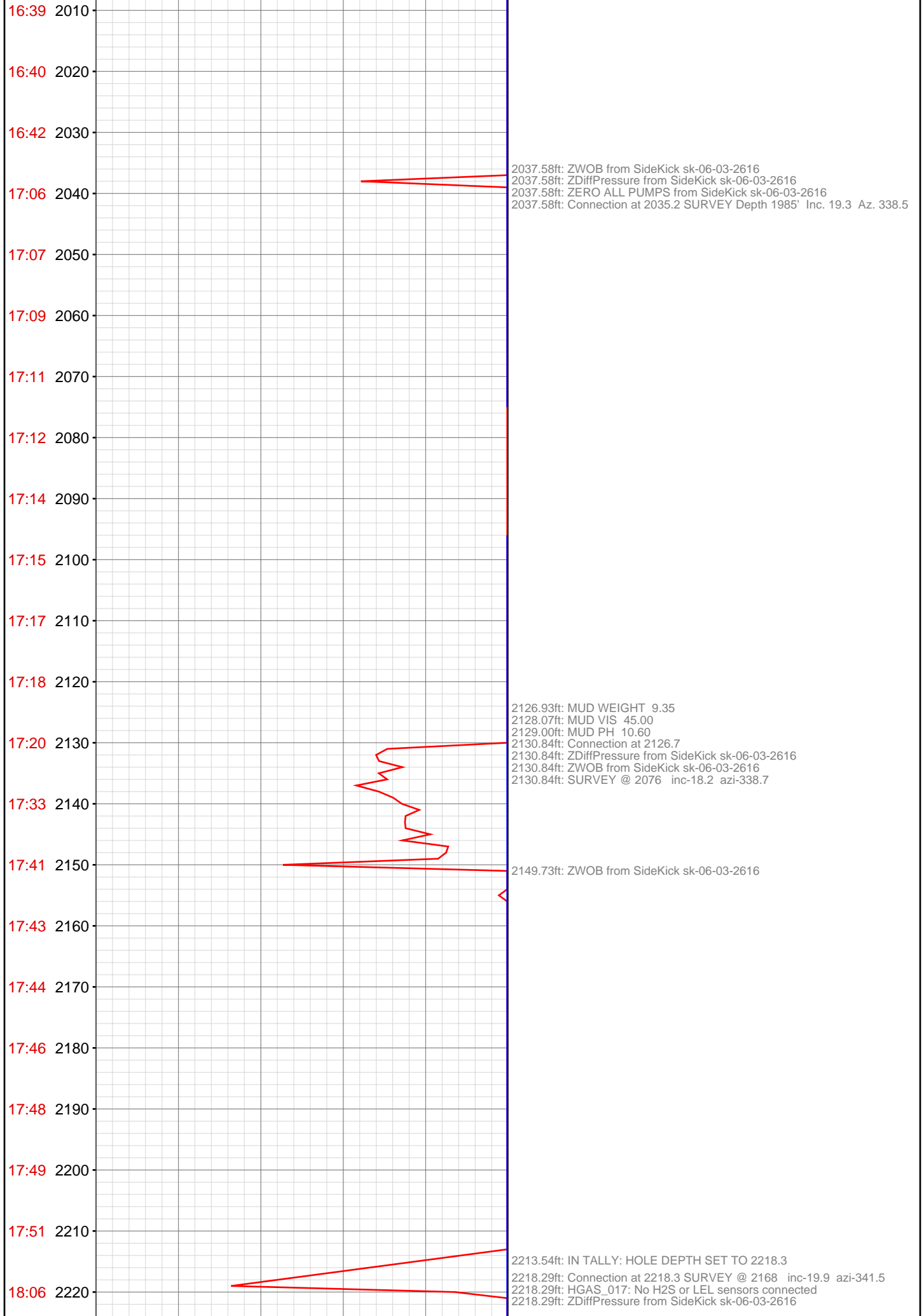
CONTRACTOR: Patterson-UTI Drilling Company
UNIQUE WELL ID: 05-045-20689
SPUD DATE: Oct 14, 2012 11:00
RELEASE DATE: Oct 22, 2012 14:00

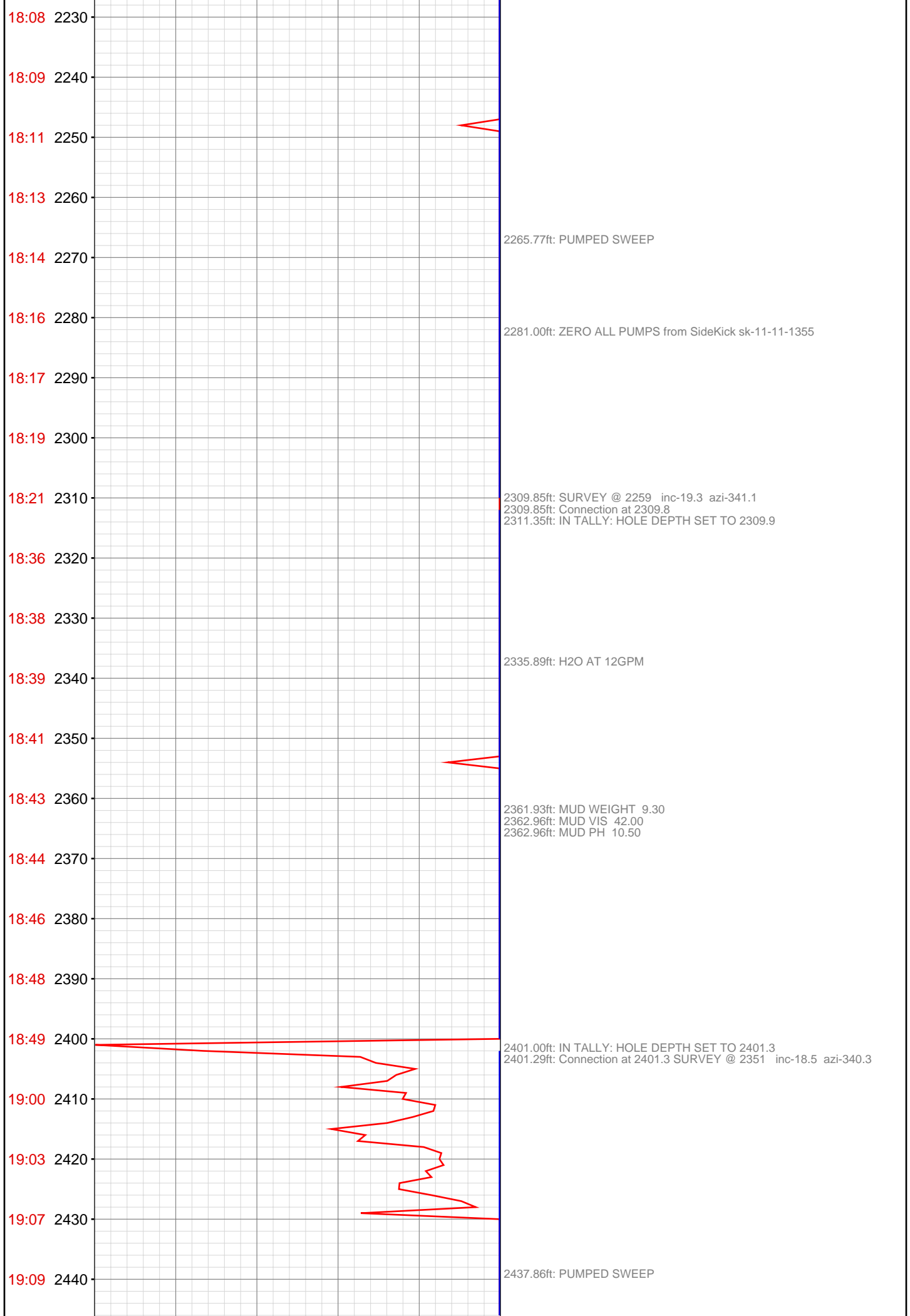


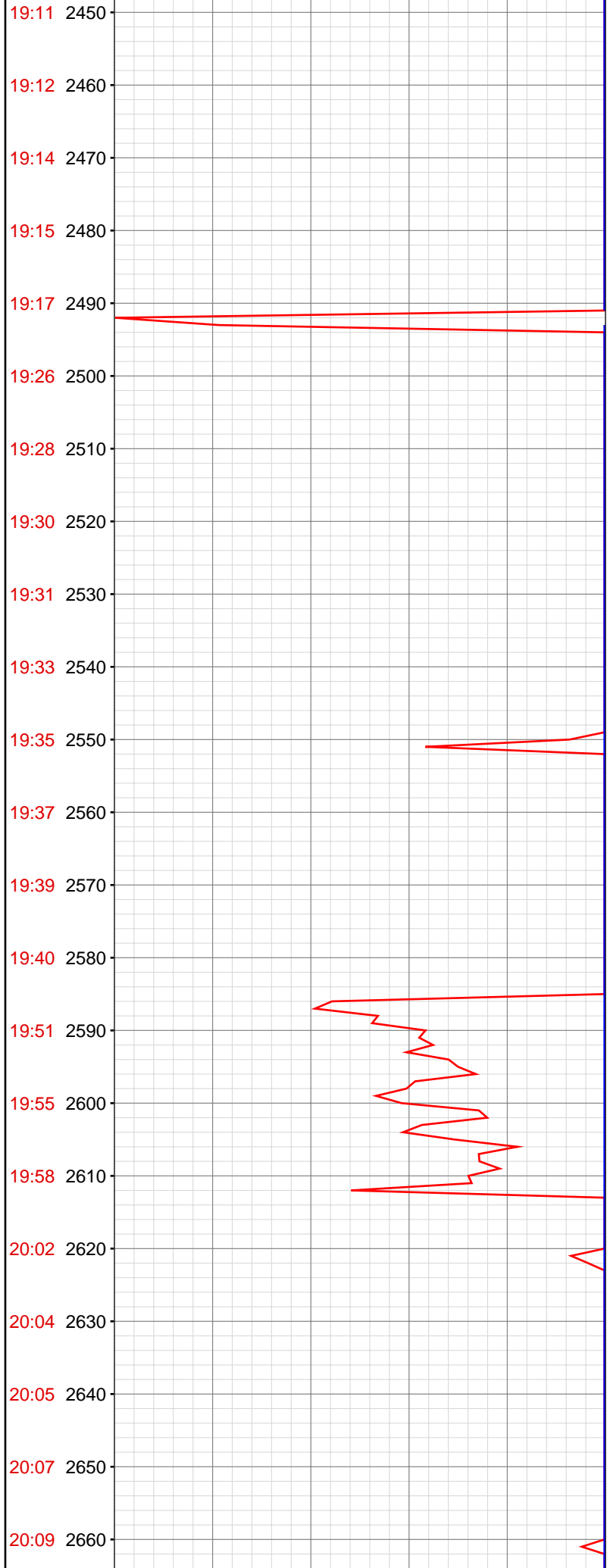












2458.13ft: ZERO ALL PUMPS from SideKick sk-11-11-1355

2492.00ft: IN TALLY: HOLE DEPTH SET TO 2492.8
2492.79ft: SURVEY @ 2442 inc-20.0 azi-340.2
2492.79ft: Connection at 2492.8

2584.34ft: Connection at 2584.3
2585.88ft: IN TALLY: HOLE DEPTH SET TO 2584.3

2591.46ft: SURVEY @ 2534 inc-18.8 azi-340.9

2610.56ft: MUD WEIGHT 9.30
2611.02ft: MUD VIS 44.00
2611.02ft: MUD PH 10.50
2613.15ft: PUMPED SWEEP

2628.05ft: ZERO ALL PUMPS from SideKick sk-11-11-1355

20:11 2670

2675.00ft: IN TALLY: HOLE DEPTH SET TO 2675.8
2675.82ft: SURVEY @ 2625 inc-21.0 340.3
2675.82ft: Connection at 2675.8

20:19 2680

20:20 2690

20:22 2700

2702.30ft: PUMPED SWEEP

20:24 2710

2707.00ft: ZERO ALL PUMPS from SideKick sk-11-11-1355

20:26 2720

20:27 2730

20:29 2740

20:31 2750

20:33 2760

2767.38ft: SURVEY @ 2717 inc-19.8 azi-340.5
2767.38ft: Connection at 2767.4
2767.38ft: ZDiffPressure from SideKick sk-06-03-2616
2768.88ft: IN TALLY: HOLE DEPTH SET TO 2767.4
2768.88ft: BOP DRILL

20:50 2770

20:52 2780

20:54 2790

2793.89ft: PUMPED SWEEP

20:56 2800

20:57 2810

2810.00ft: ZERO ALL PUMPS from SideKick sk-11-11-1355

20:59 2820

21:00 2830

21:02 2840

21:04 2850

2858.99ft: SURVEY @ 2809 inc-19.5 azi-339.3
2858.99ft: MUD WEIGHT 9.30
2858.99ft: MUD PH 10.20
2858.99ft: MUD VIS 44.00
2858.99ft: Connection at 2859.0
2860.53ft: IN TALLY: HOLE DEPTH SET TO 2859.0

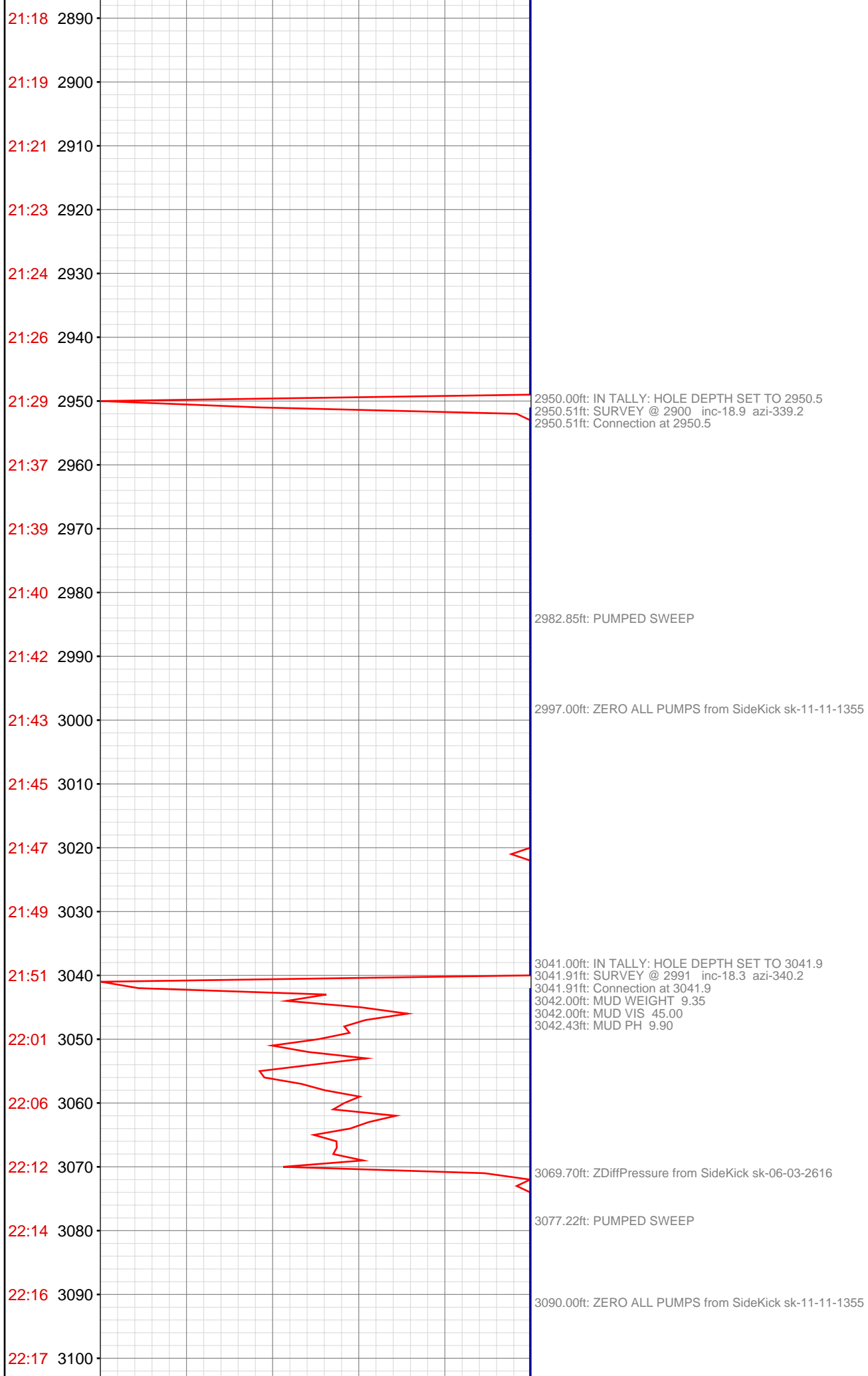
21:13 2860

21:14 2870

2871.12ft: PUMPED SWEEP

21:16 2880

2883.00ft: ZERO ALL PUMPS from SideKick sk-11-11-1355



22:19 3110
22:21 3120
22:23 3130
22:32 3140
22:33 3150
22:35 3160
22:37 3170
22:39 3180
22:40 3190
22:42 3200
22:44 3210
22:46 3220
22:56 3230
23:00 3240
23:04 3250
23:08 3260
23:10 3270
23:11 3280
23:13 3290
23:15 3300
23:17 3310
23:26 3320

3133.36ft: SURVEY @ 3083 inc-19.5 azi-338.8
3133.36ft: Connection at 3133.4
3133.36ft: ZDiffPressure from SideKick sk-06-03-2616
3134.65ft: IN TALLY: HOLE DEPTH SET TO 3133.4

3145.37ft: PUMPED SWEEP

3162.00ft: ZERO ALL PUMPS from SideKick sk-11-11-1355

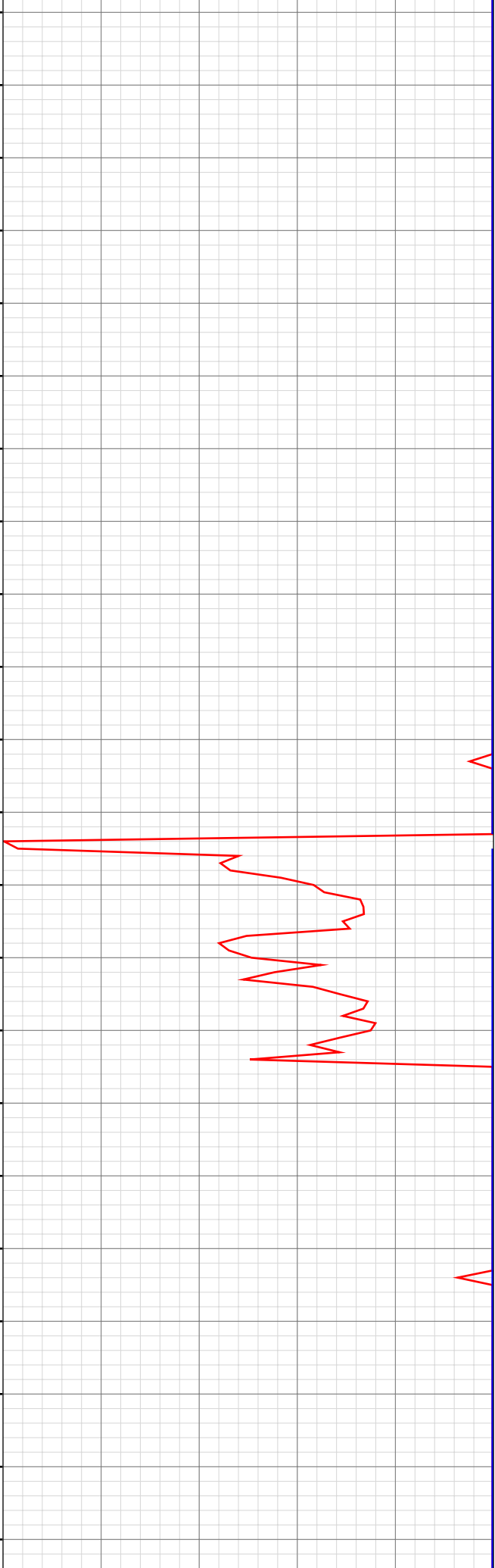
3224.00ft: IN TALLY: HOLE DEPTH SET TO 3224.9
3224.89ft: Connection at 3224.9

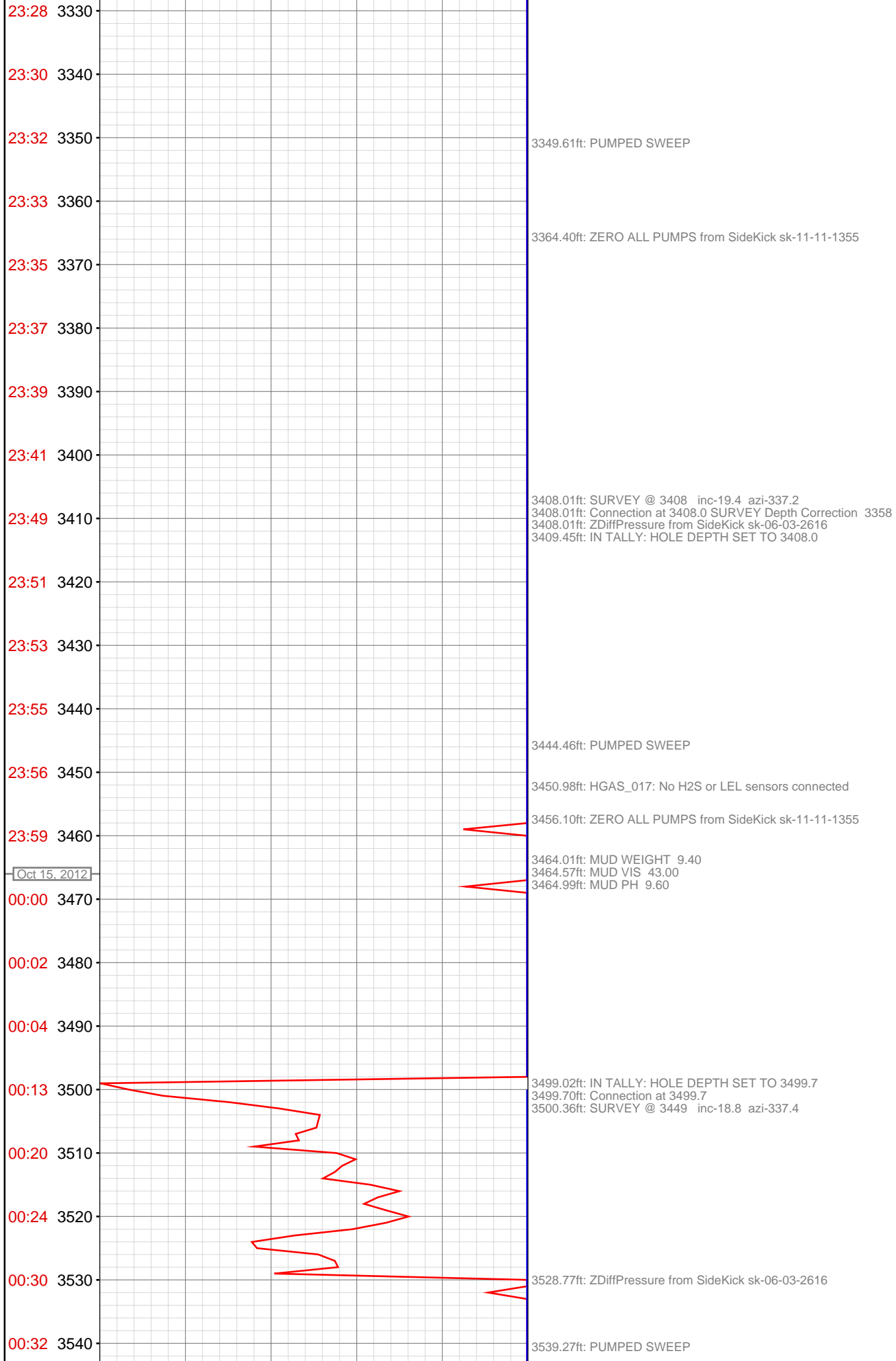
3253.38ft: MUD WEIGHT 9.40
3253.38ft: MUD VIS 45.00
3253.38ft: MUD WEIGHT 9.60

3291.21ft: PUMPED SWEEP

3300.00ft: ZERO ALL PUMPS from SideKick sk-11-11-1355

3316.54ft: SURVEY @ 3266 inc-20.2 azi-337.9
3316.54ft: Connection at 3316.5
3316.54ft: ZDiffPressure from SideKick sk-06-03-2616
3316.54ft: ZWOB from SideKick sk-06-03-2616
3317.29ft: IN TALLY: HOLE DEPTH SET TO 3316.5





00:33 3550

3550.62ft: ZERO ALL PUMPS from SideKick sk-11-11-1355

00:35 3560

00:37 3570

00:39 3580

00:41 3590

3591.31ft: SURVEY @ 3541 inc-20.5 azi-338.6
3591.31ft: Connection at 3591.3
3591.31ft: ZDiffPressure from SideKick sk-06-03-2616
3592.52ft: IN TALLY: HOLE DEPTH SET TO 3591.3

00:49 3600

00:51 3610

00:53 3620

00:55 3630

00:57 3640

3645.44ft: PUMPED SWEEP

00:58 3650

01:00 3660

3662.01ft: ZERO ALL PUMPS from SideKick sk-11-11-1355

01:02 3670

01:04 3680

3682.74ft: SURVEY @ 3632 inc-19.7 azi-338.4
3682.74ft: Connection at 3682.7
3682.74ft: ZDiffPressure from SideKick sk-06-03-2616
3684.71ft: IN TALLY: HOLE DEPTH SET TO 3682.7

01:13 3690

01:15 3700

01:16 3710

3711.88ft: PUMPED SWEEP

01:18 3720

3722.01ft: ZERO ALL PUMPS from SideKick sk-11-11-1355

01:20 3730

01:22 3740

01:23 3750

01:25 3760

01:27 3770
01:36 3780
01:38 3790
01:39 3800
01:41 3810
01:43 3820
01:44 3830
01:46 3840
01:48 3850
01:50 3860
02:01 3870
02:05 3880
02:14 3890
02:19 3900
02:20 3910
02:22 3920
02:24 3930
02:26 3940
02:28 3950
02:37 3960
02:39 3970
02:41 3980

3774.25ft: SURVEY @ 3724 inc-18.9 azi-337.8
3774.25ft: Connection at 3774.2
3775.66ft: IN TALLY: HOLE DEPTH SET TO 3774.2

3865.32ft: SURVEY @ 3815 inc-18.2 azi-337.7
3865.32ft: Connection at 3865.3
3867.42ft: IN TALLY: HOLE DEPTH SET TO 3865.3

3879.69ft: MUD WEIGHT 9.50
3879.99ft: MUD VIS 44.00
3880.12ft: MUD PH 9.70

3895.44ft: ZDiffPressure from SideKick sk-06-03-2616

3921.78ft: PUMPED SWEEP

3931.00ft: ZERO ALL PUMPS from SideKick sk-11-11-1355

3956.00ft: IN TALLY: HOLE DEPTH SET TO 3956.7
3956.69ft: SURVEY @ 3906 inc-19.6 azi-340.6
3956.69ft: Connection at 3956.7
3956.69ft: ZDiffPressure from SideKick sk-06-03-2616

3968.11ft: PUMPED SWEEP

3981.99ft: ZERO ALL PUMPS from SideKick sk-11-11-1355

3985.99ft: TRANSFERRED 75.00

02:42 3990

02:44 4000

02:46 4010

02:47 4020

02:50 4030

02:51 4040

03:02 4050

4048.20ft: SURVEY @ 3998 inc-18.5 azi-339.2
4048.20ft: Connection at 4048.2
4049.67ft: IN TALLY: HOLE DEPTH SET TO 4048.2

03:07 4060

03:13 4070

03:19 4080

4077.40ft: ZDiffPressure from SideKick sk-06-03-2616
4077.40ft: ZWOB from SideKick sk-06-03-2616

03:21 4090

03:23 4100

4096.98ft: PUMPED SWEEP

03:26 4110

4106.00ft: ZERO ALL PUMPS from SideKick sk-11-11-1355

03:28 4120

03:30 4130

03:41 4140

4139.01ft: IN TALLY: HOLE DEPTH SET TO 4139.6
4139.60ft: Connection at 4139.6

03:45 4150

03:50 4160

03:55 4170

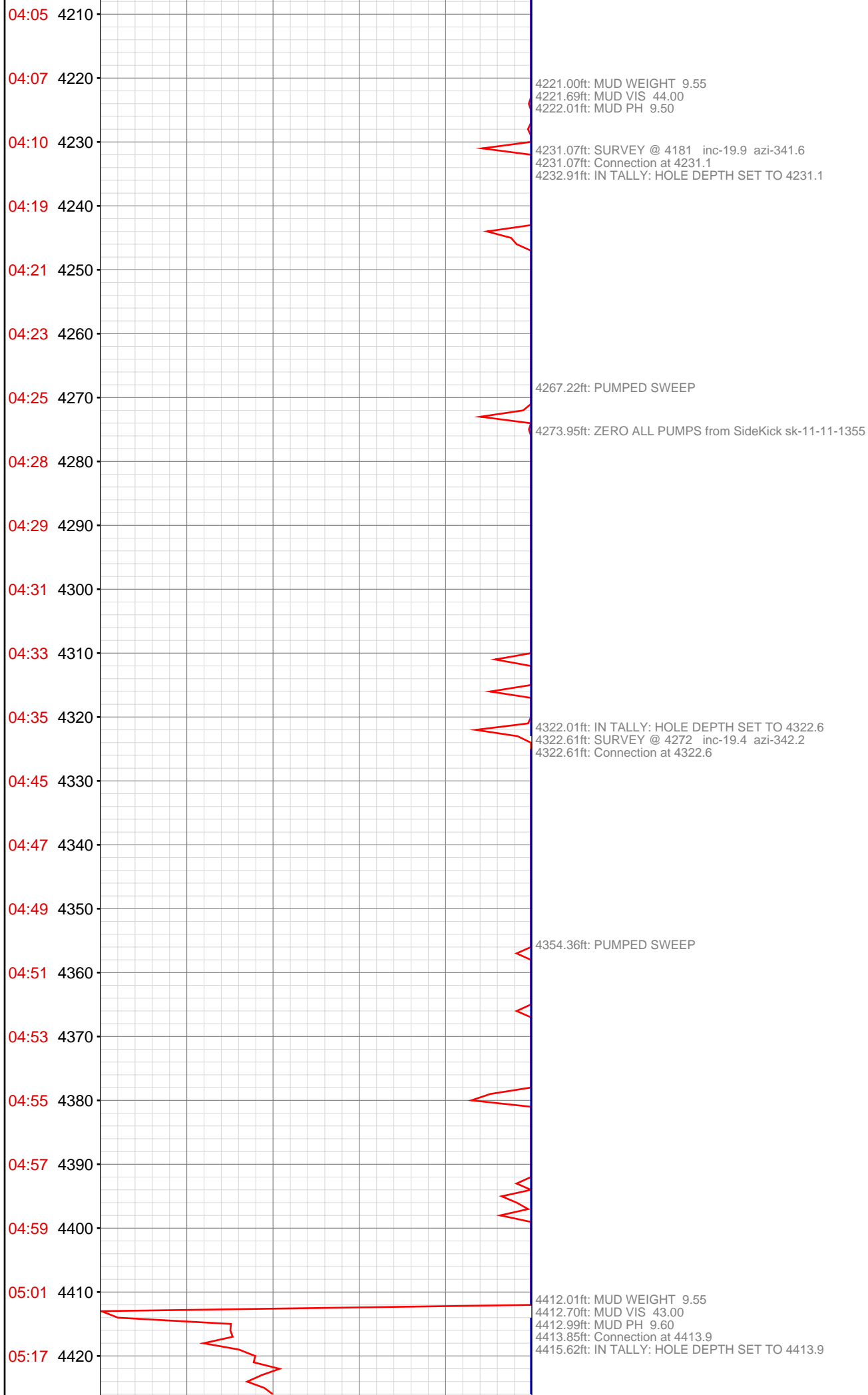
04:00 4180

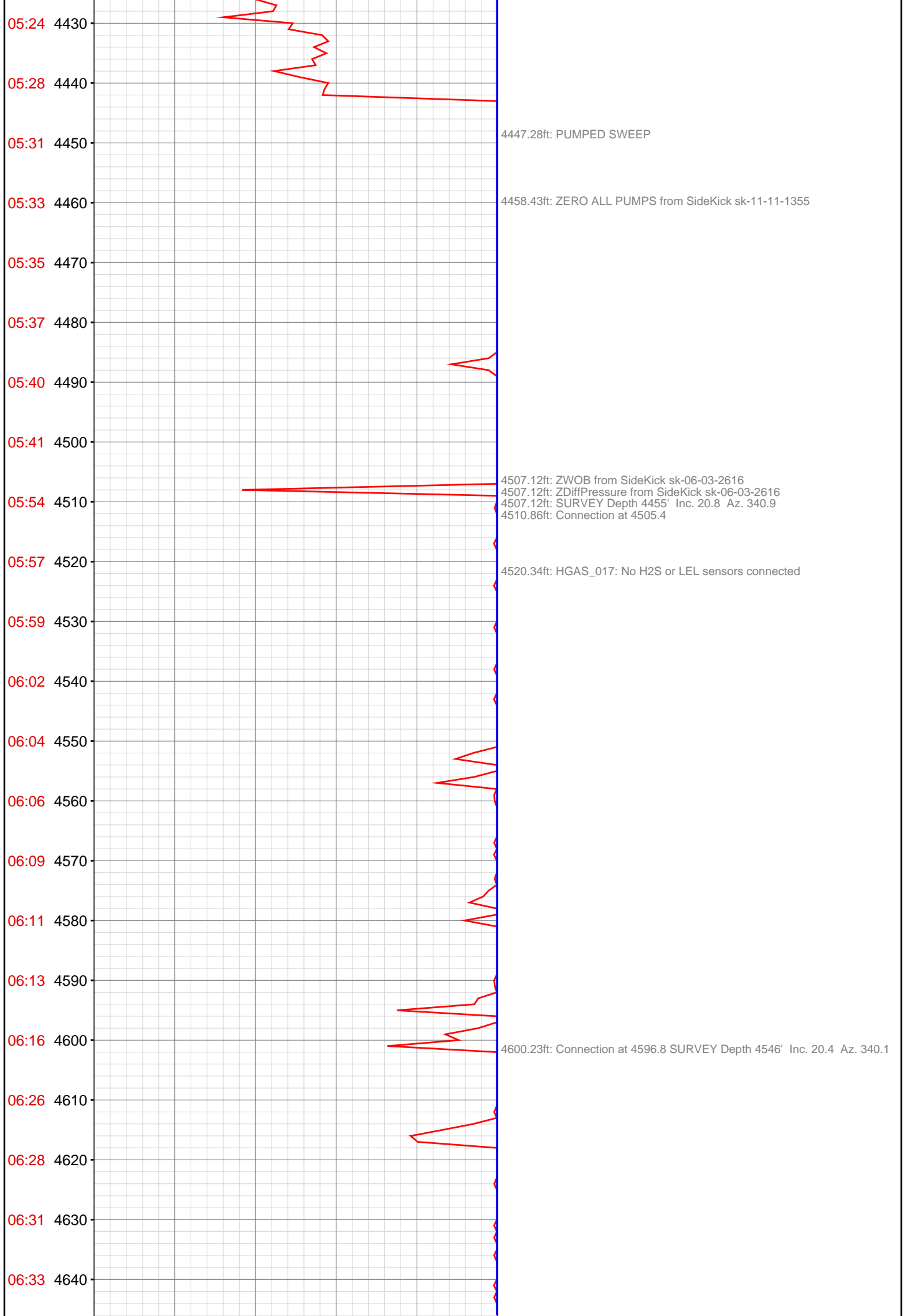
04:02 4190

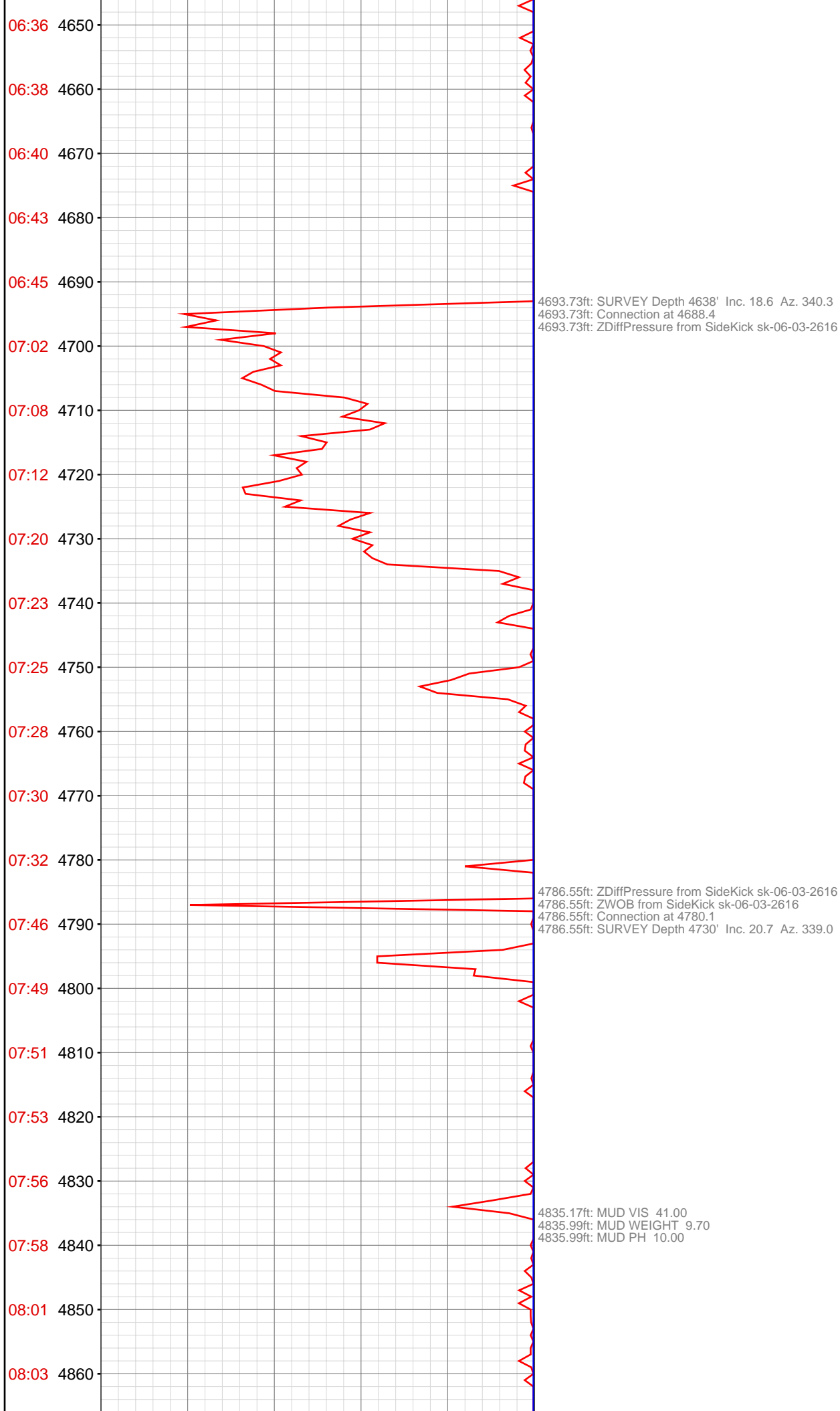
4189.99ft: PUMPED SWEEP

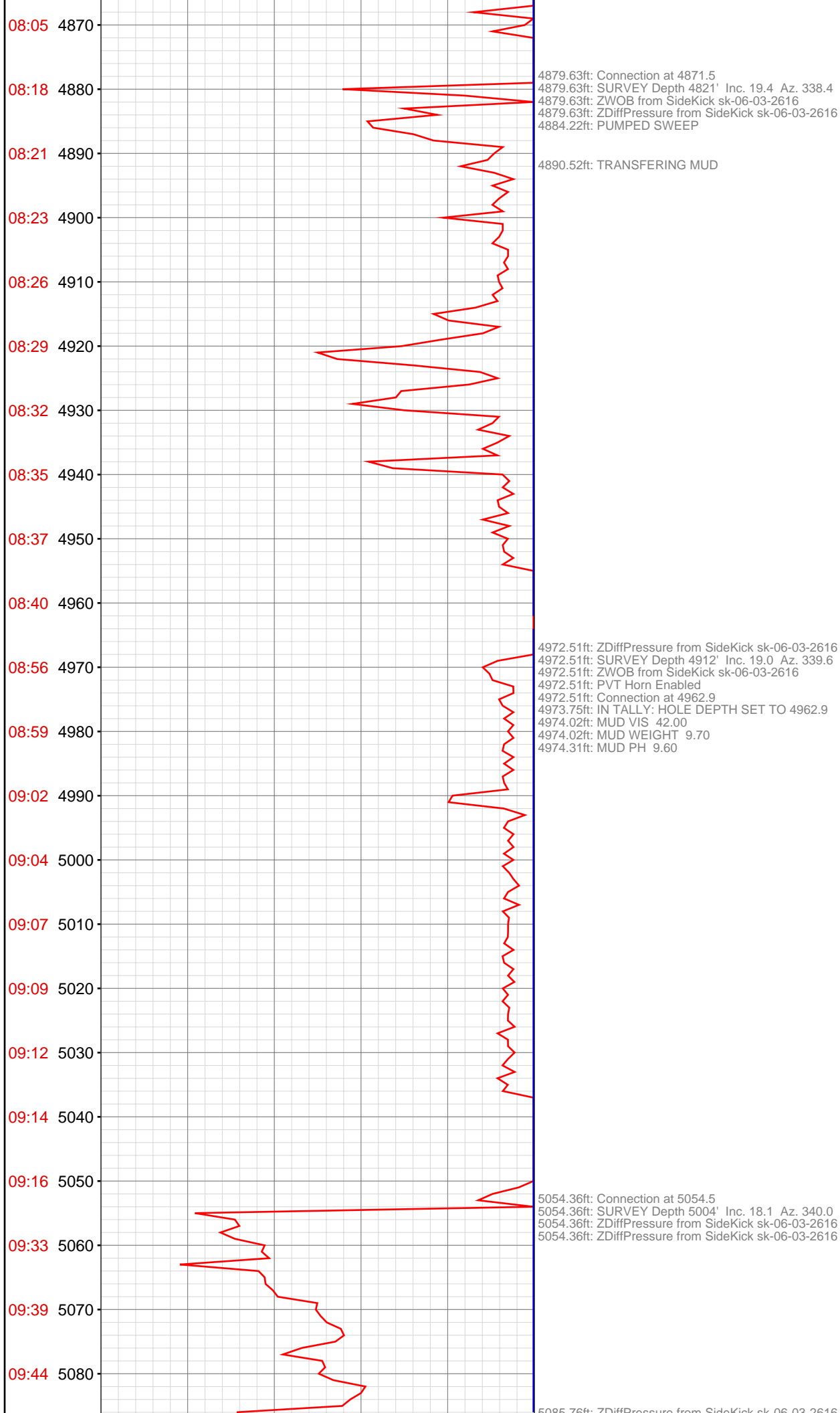
04:03 4200

4200.33ft: ZERO ALL PUMPS from SideKick sk-11-11-1355







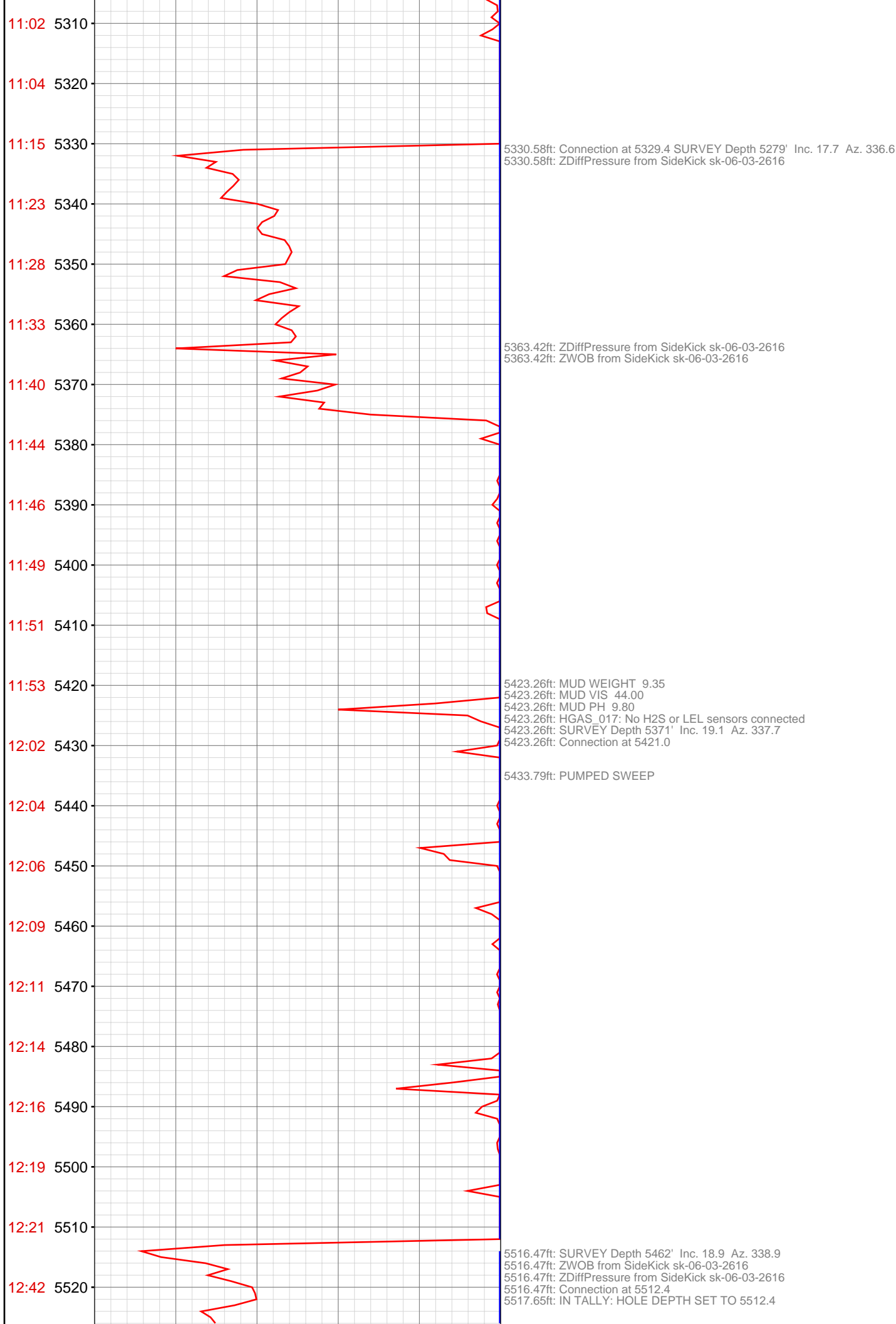


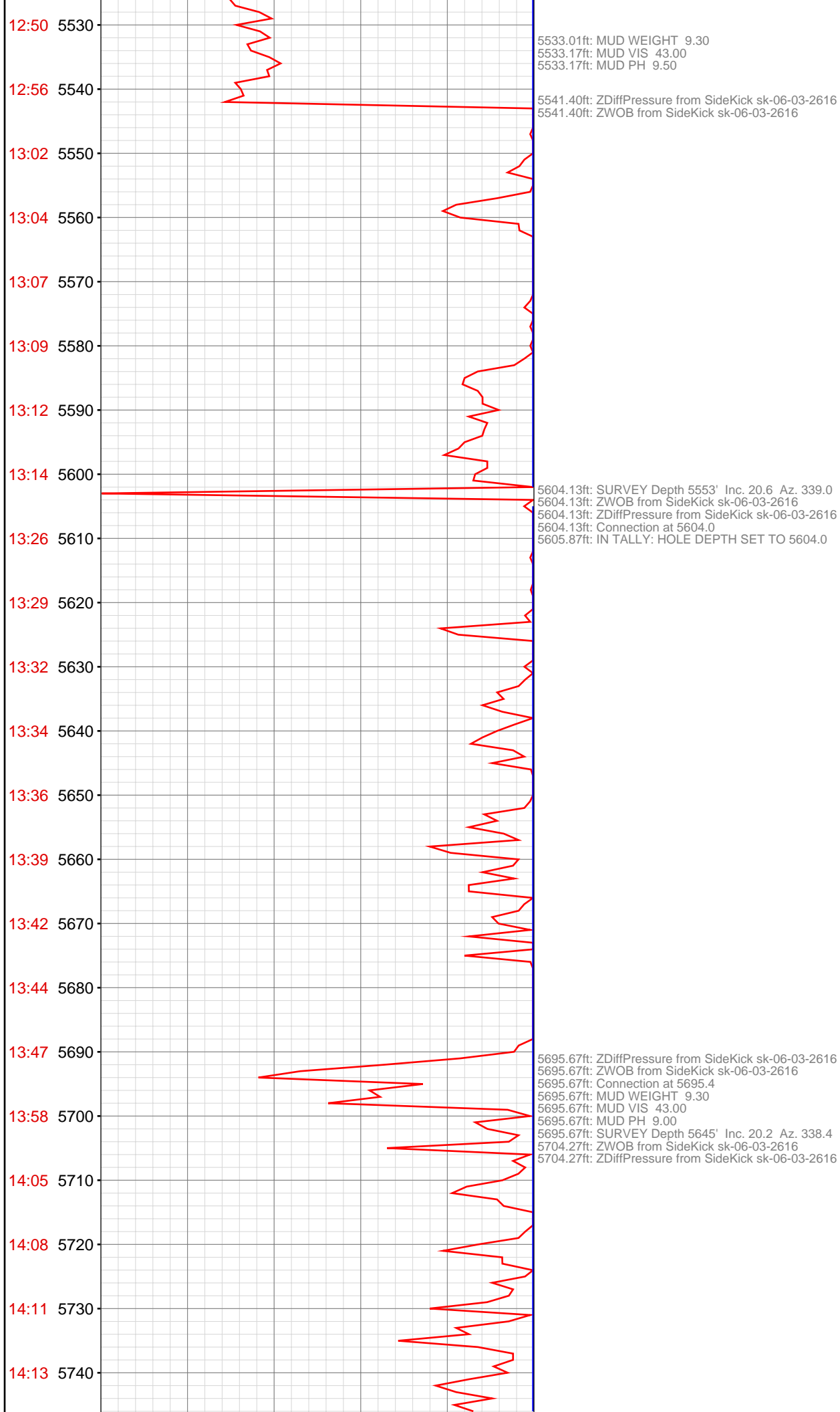
5085.76ft: ZDiffPressure from SideKick sk-06-03-2616
5085.76ft: ZWOB from SideKick sk-06-03-2616

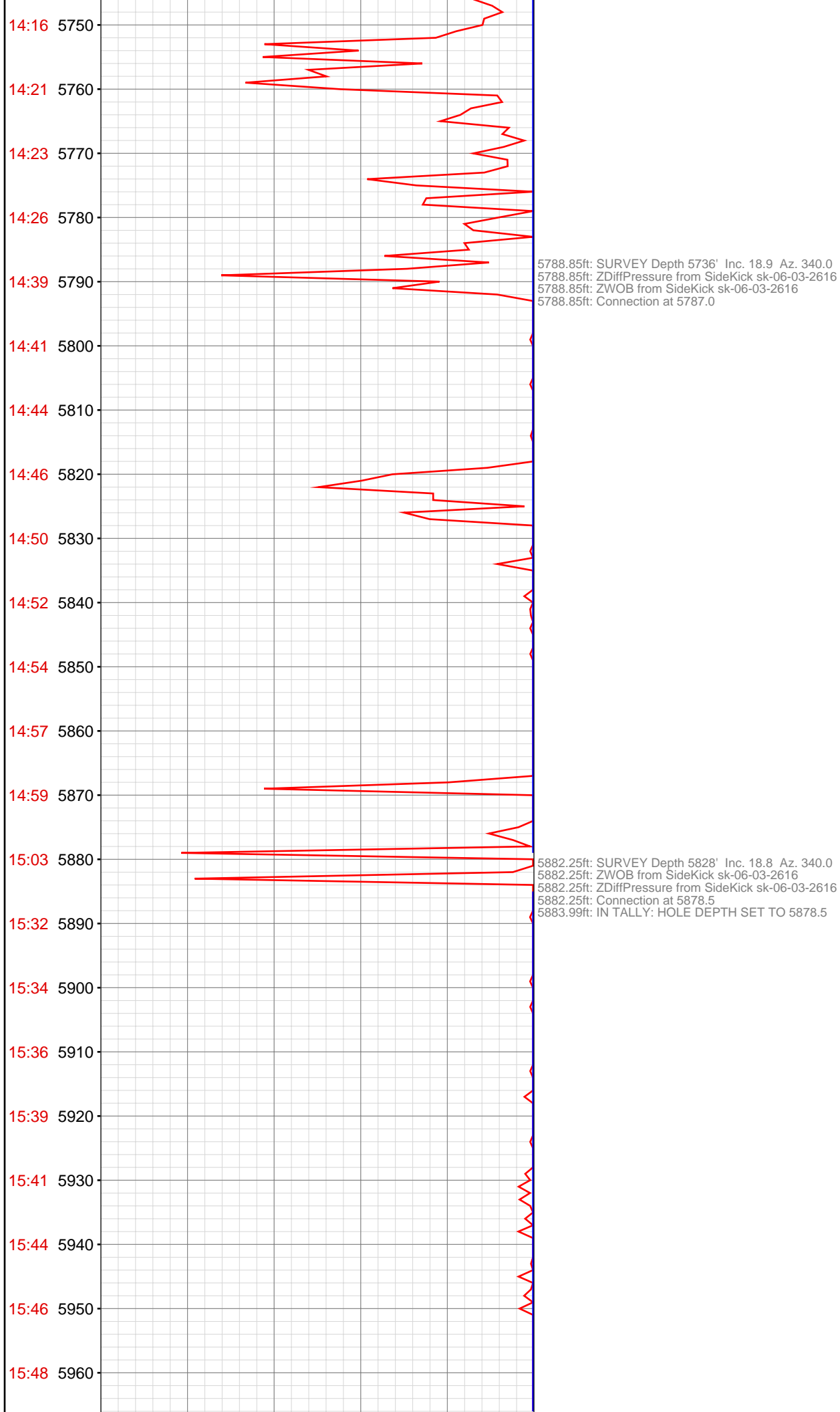
5147.97ft: MUD VIS 43.00
5147.97ft: MUD WEIGHT 9.55
5147.97ft: MUD PH 9.70
5147.97ft: Connection at 5146.1
5147.97ft: SURVEY 5096' Inc. 19.6 Az. 337.2
5147.97ft: ZWOB from SideKick sk-06-03-2616
5147.97ft: ZDiffPressure from SideKick sk-06-03-2616

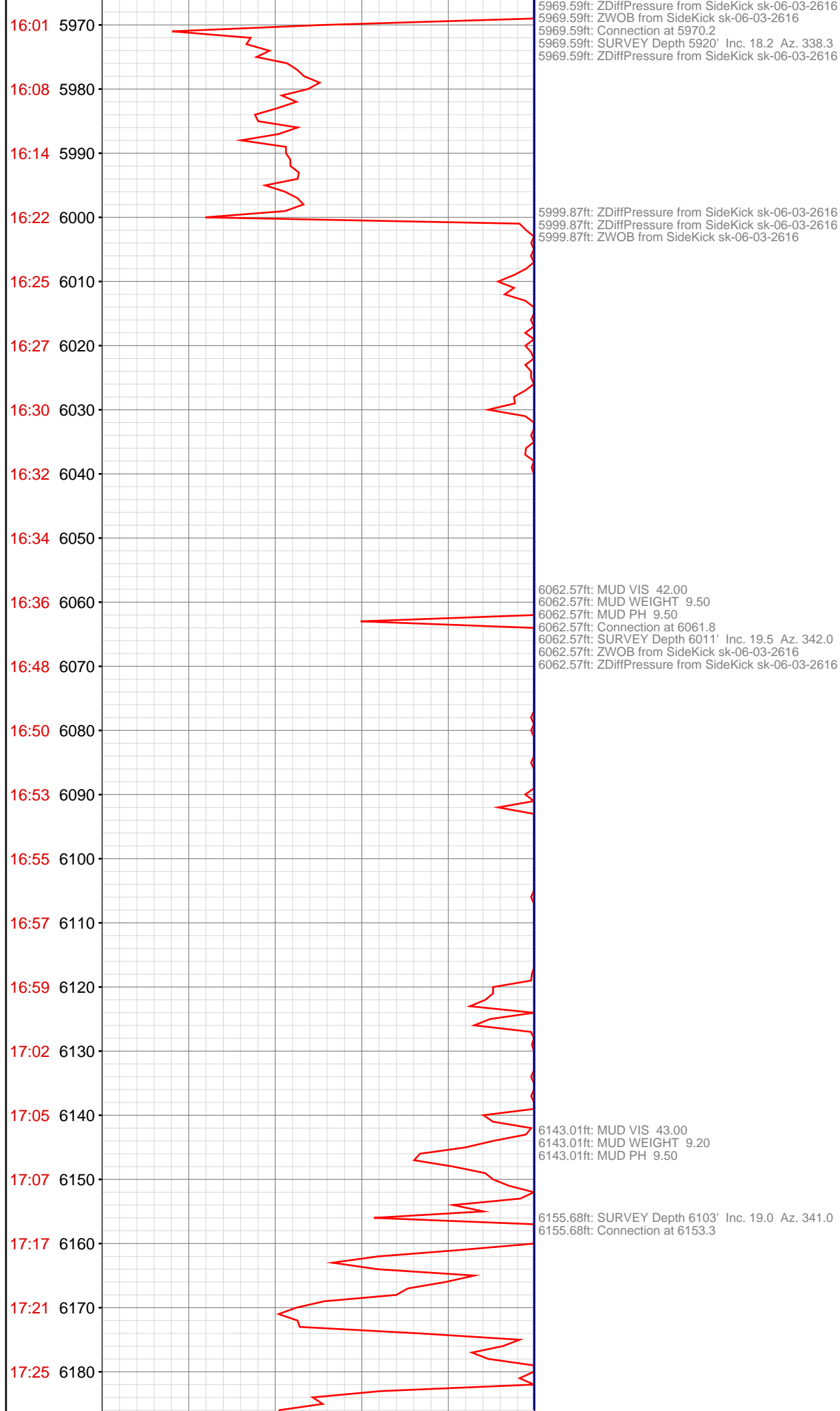
5241.37ft: ZDiffPressure from SideKick sk-06-03-2616
5241.37ft: ZWOB from SideKick sk-06-03-2616
5241.37ft: SURVEY Depth 5186' Inc. 18.9 Az. 337.1
5241.37ft: Connection at 5237.8

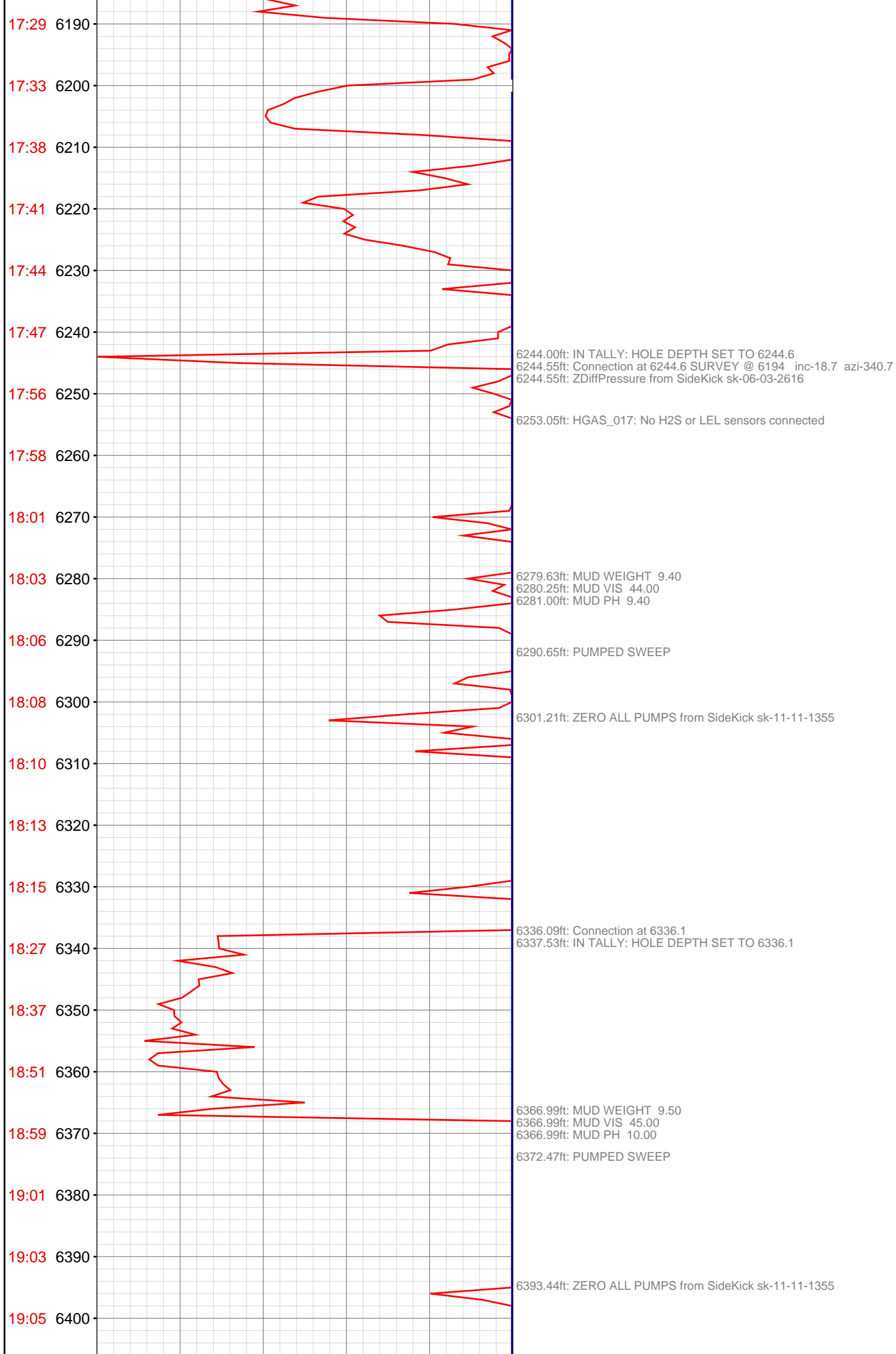
5273.52ft: MUD WEIGHT 9.35
5274.21ft: MUD VIS 43.00
5274.21ft: MUD PH 9.60

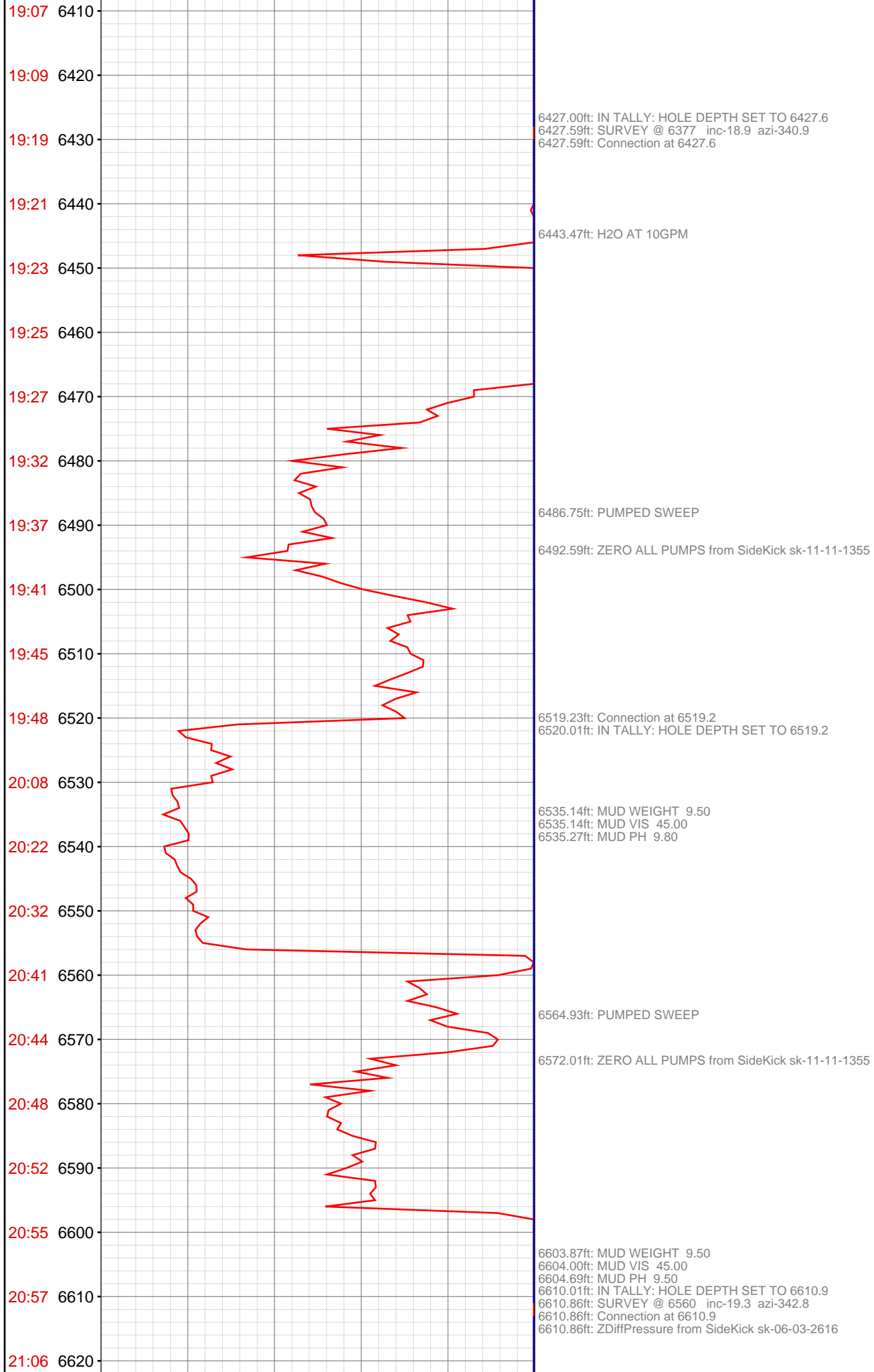


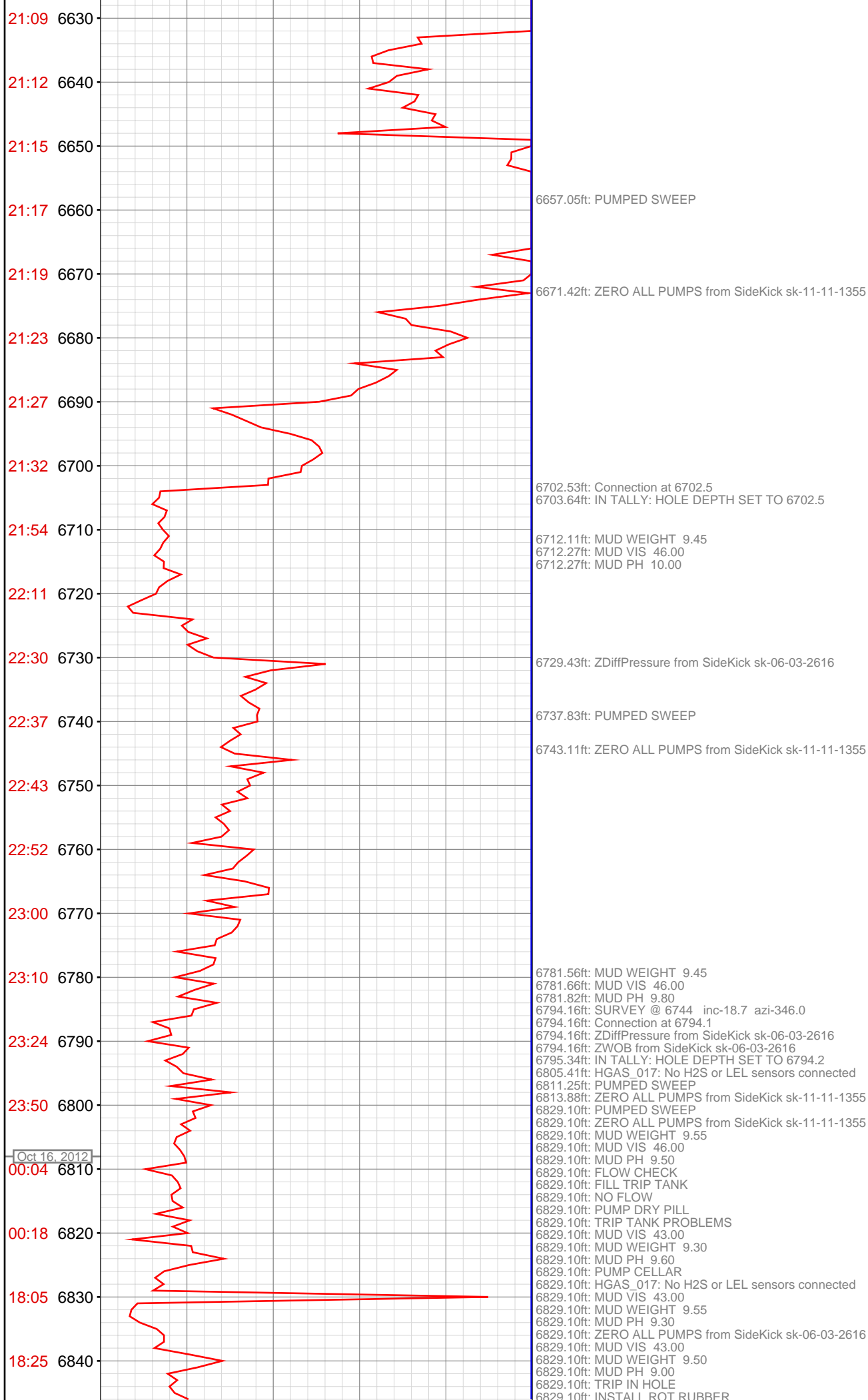


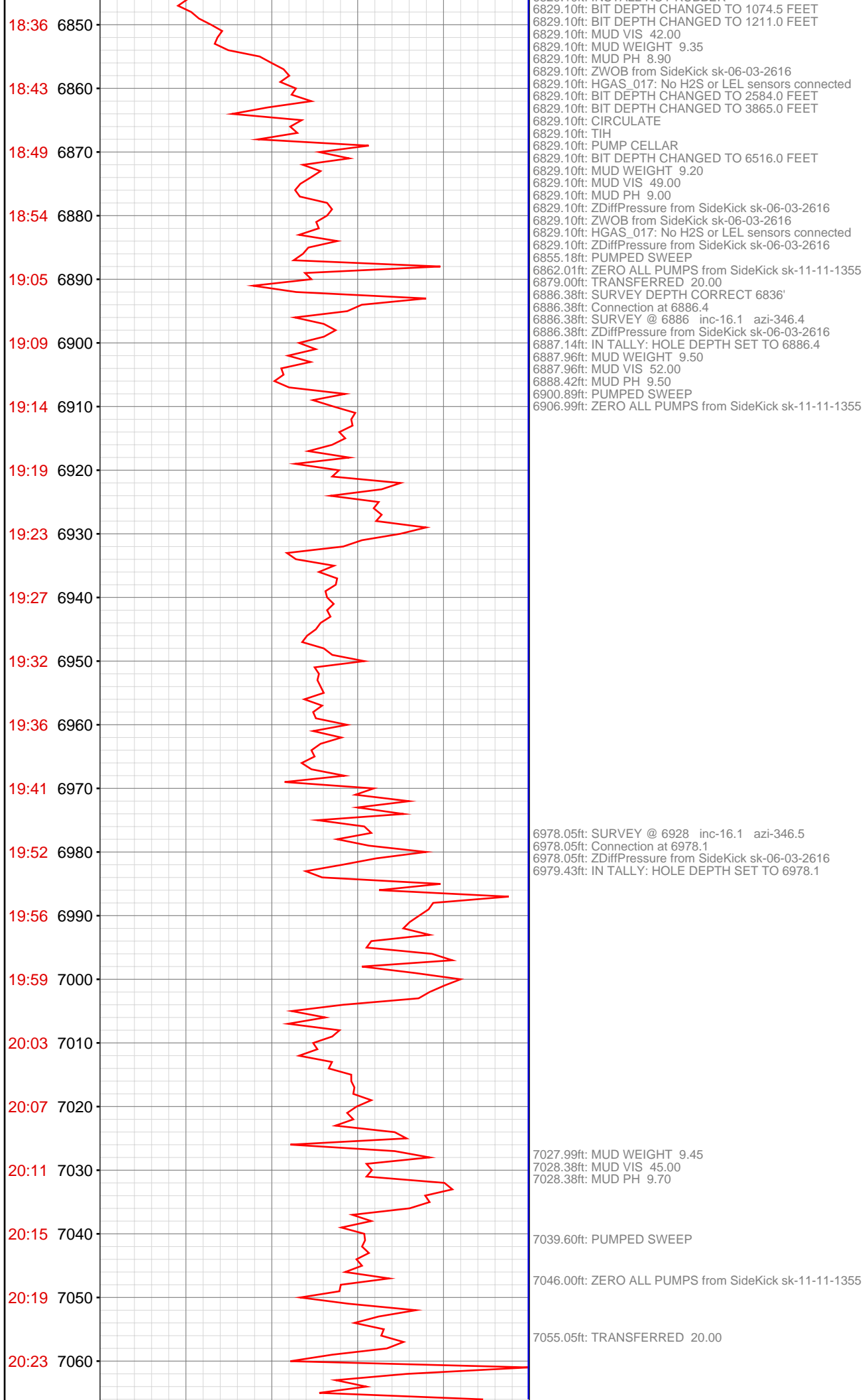


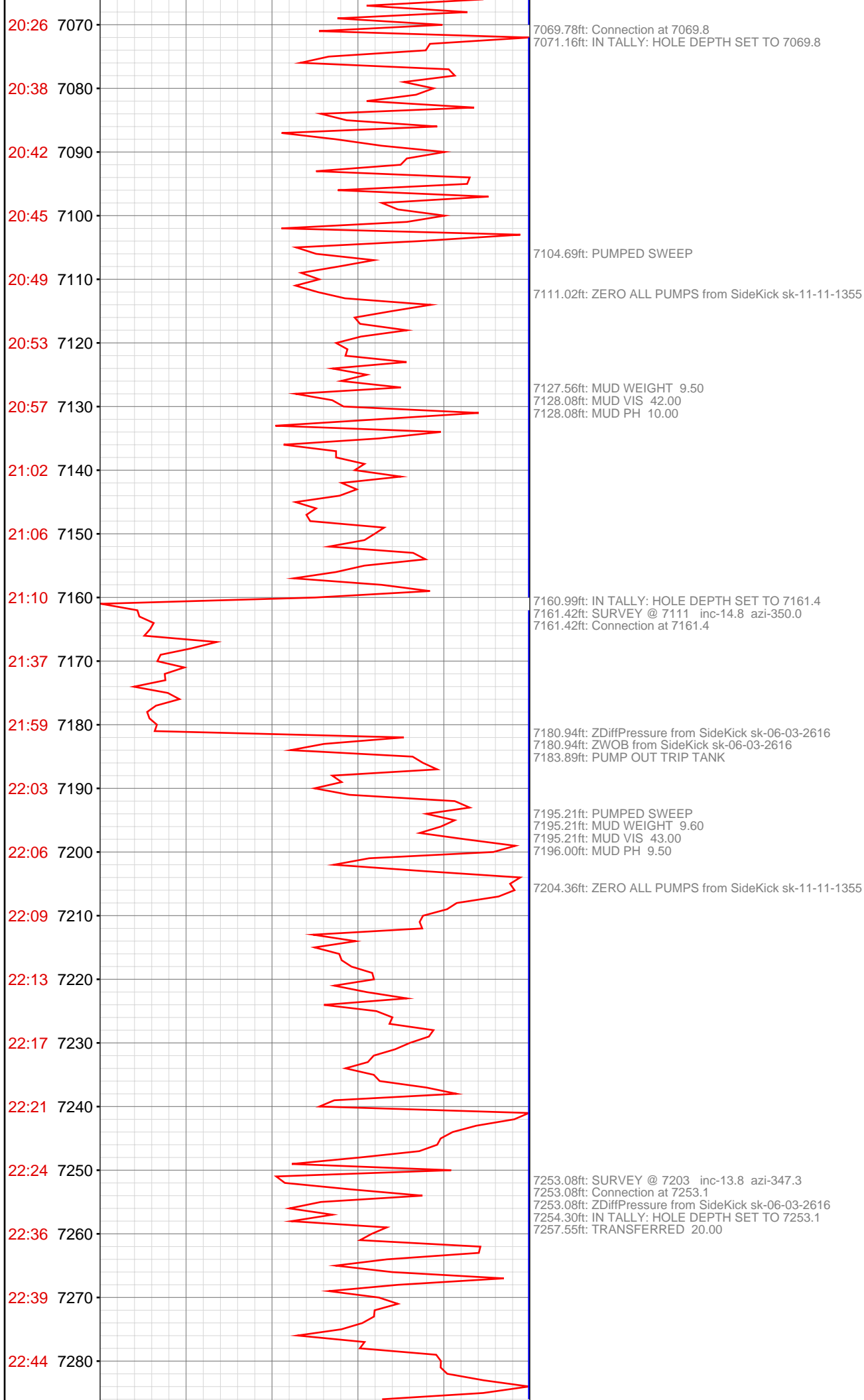


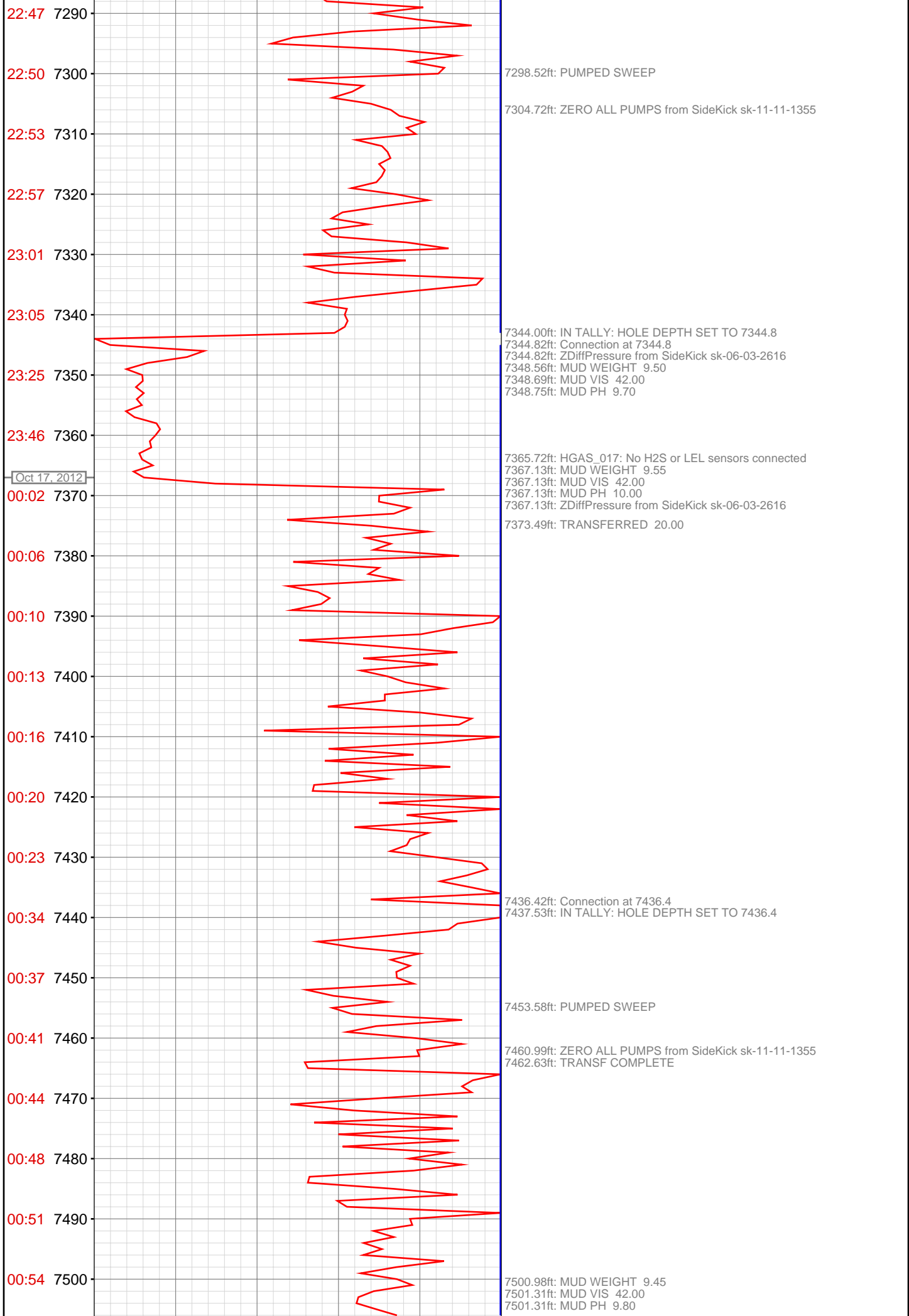


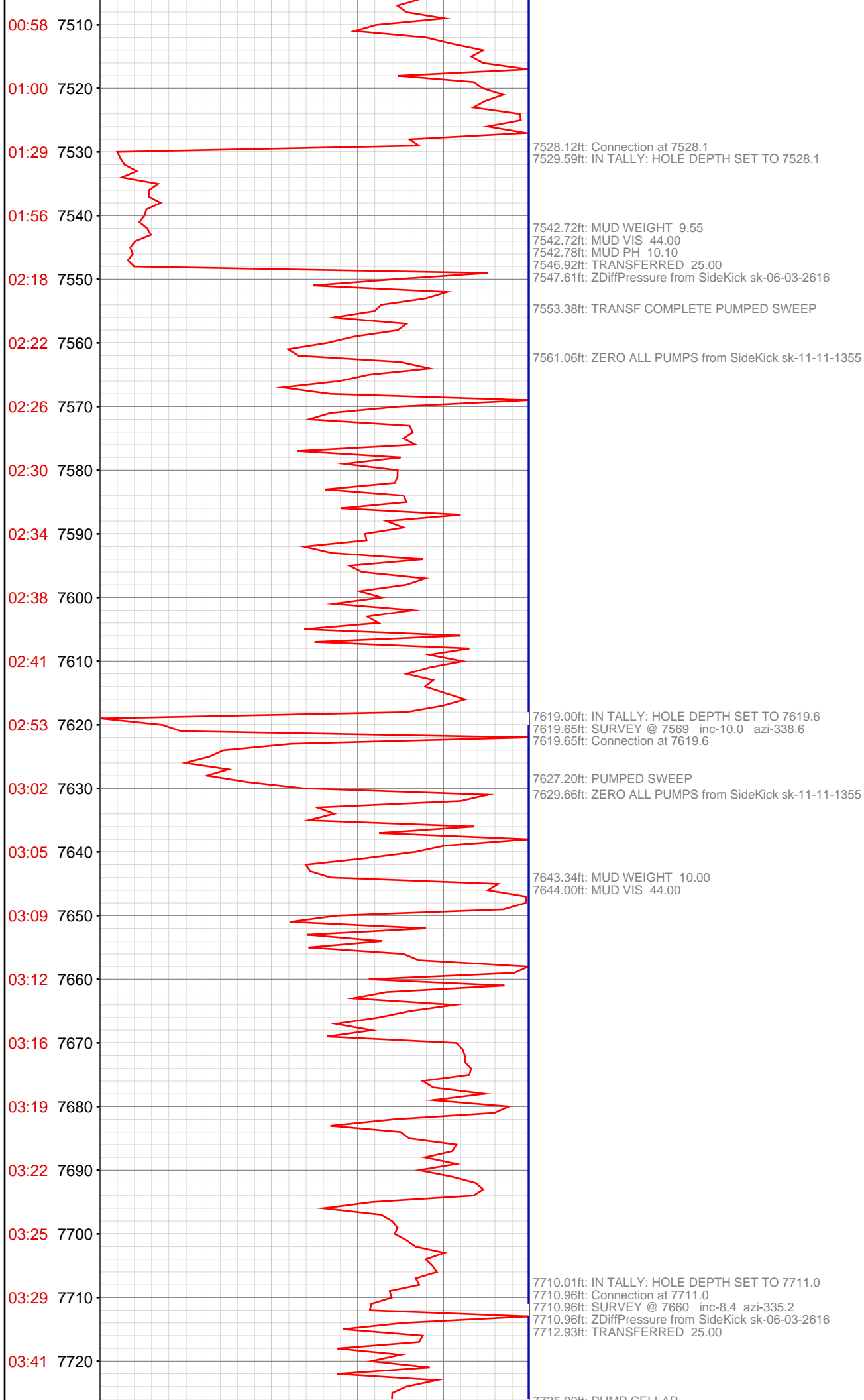


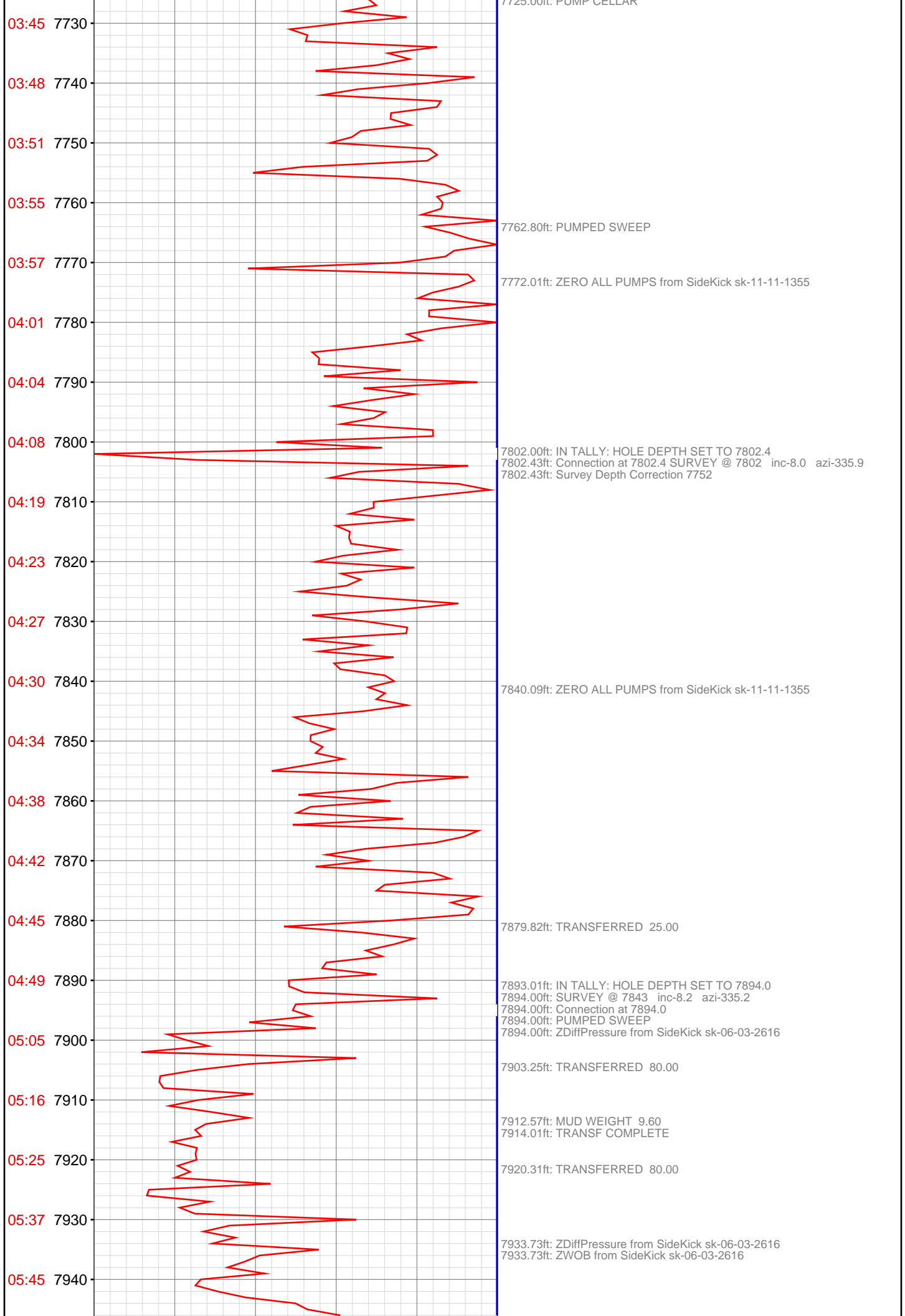


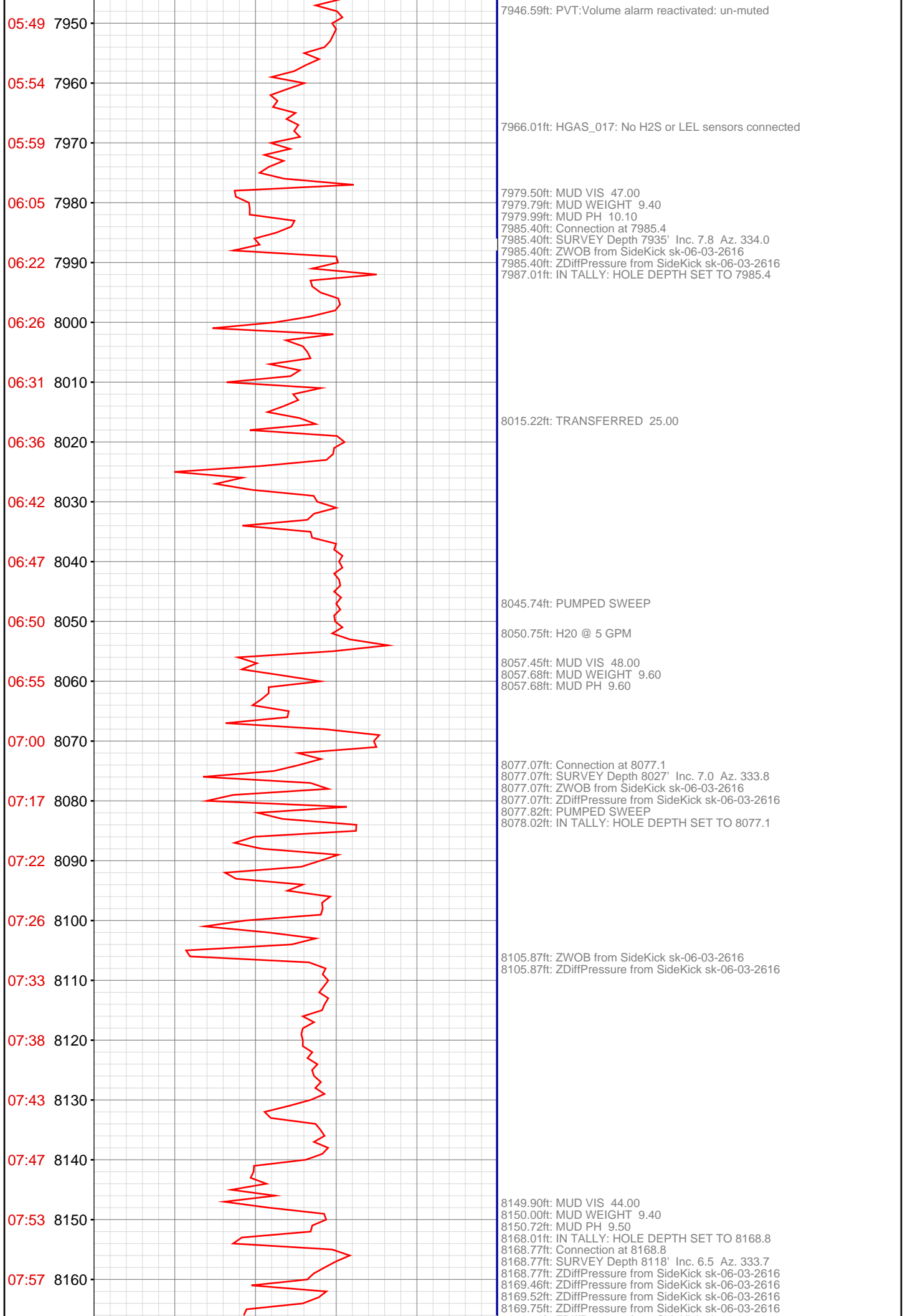


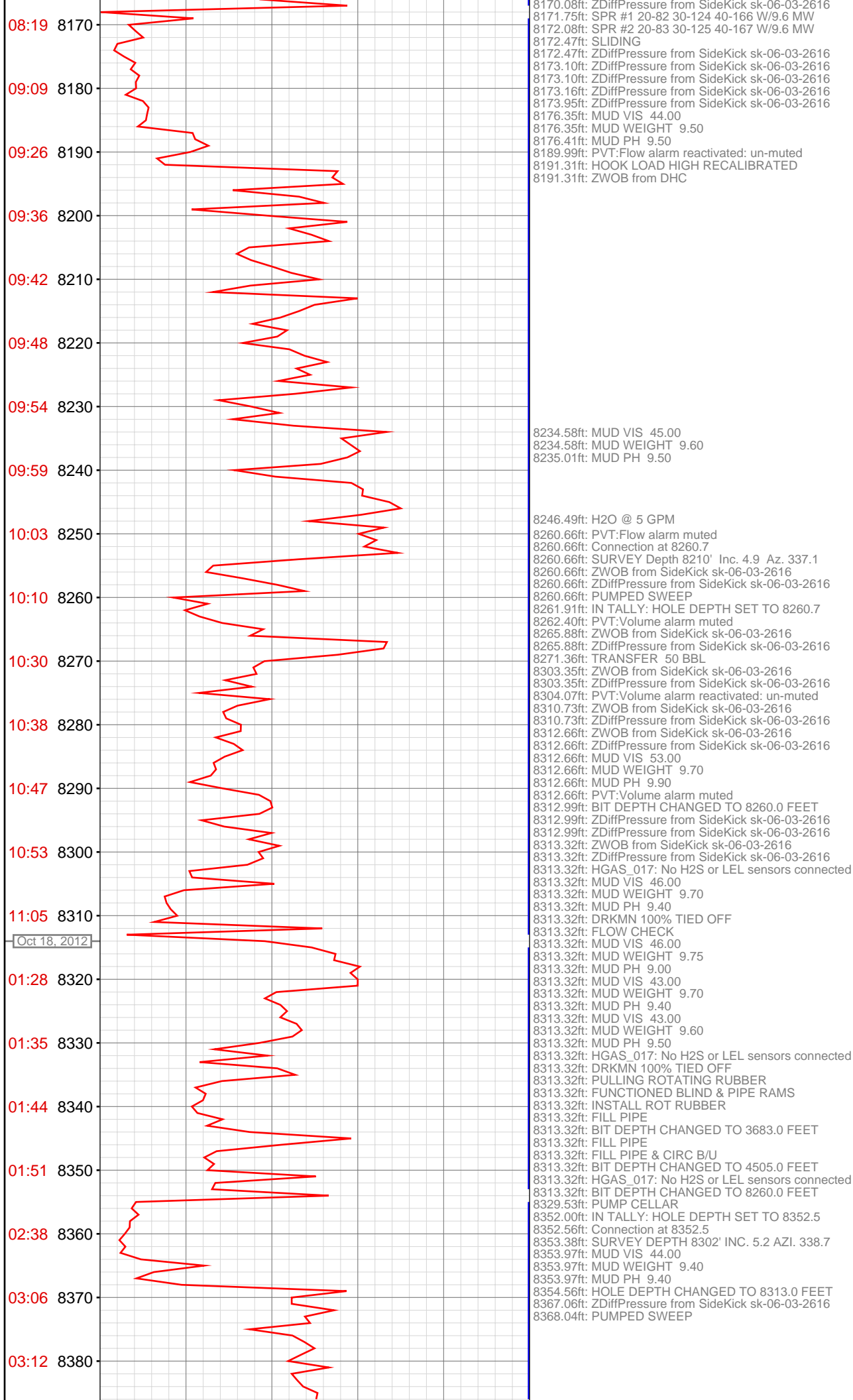


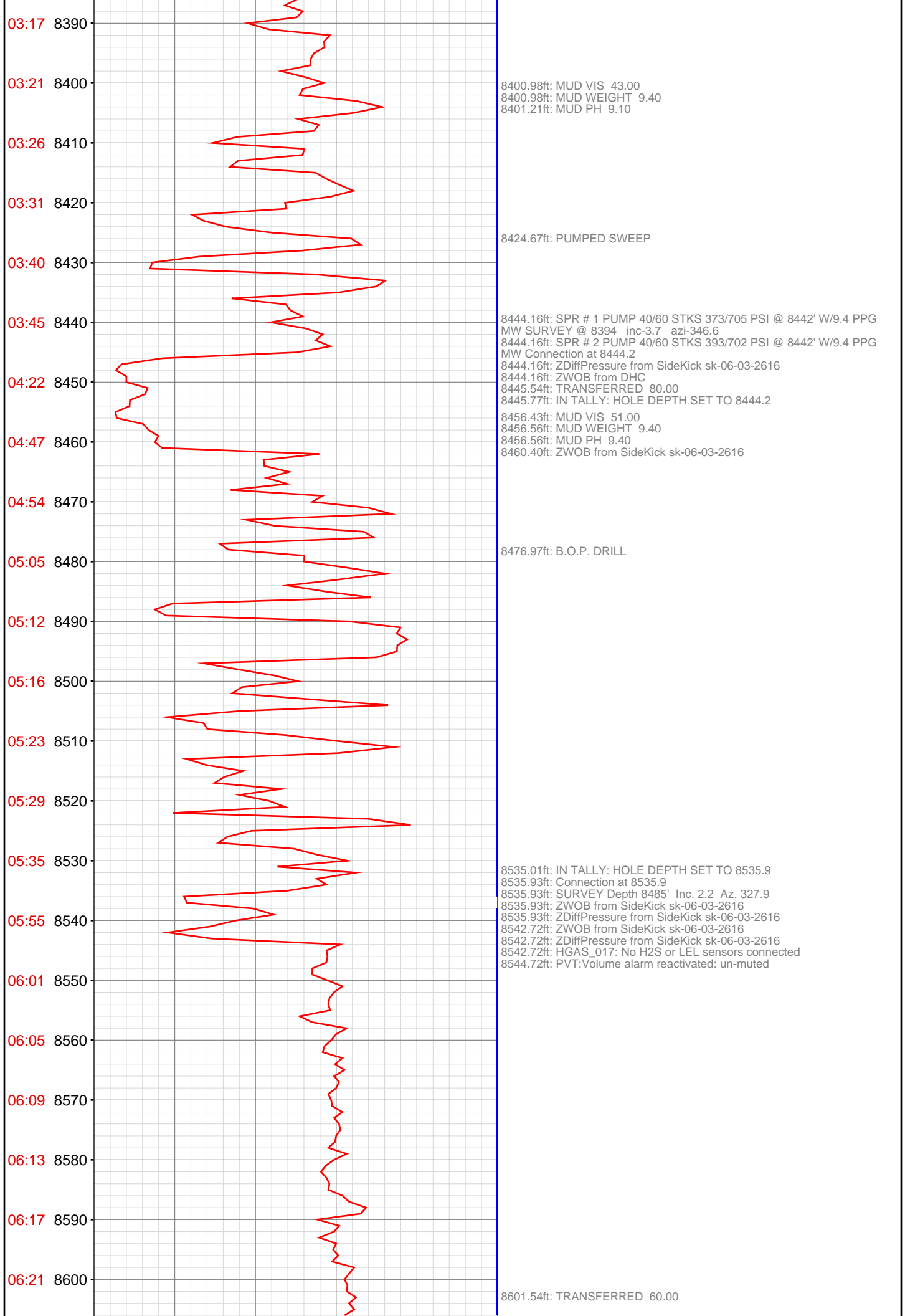


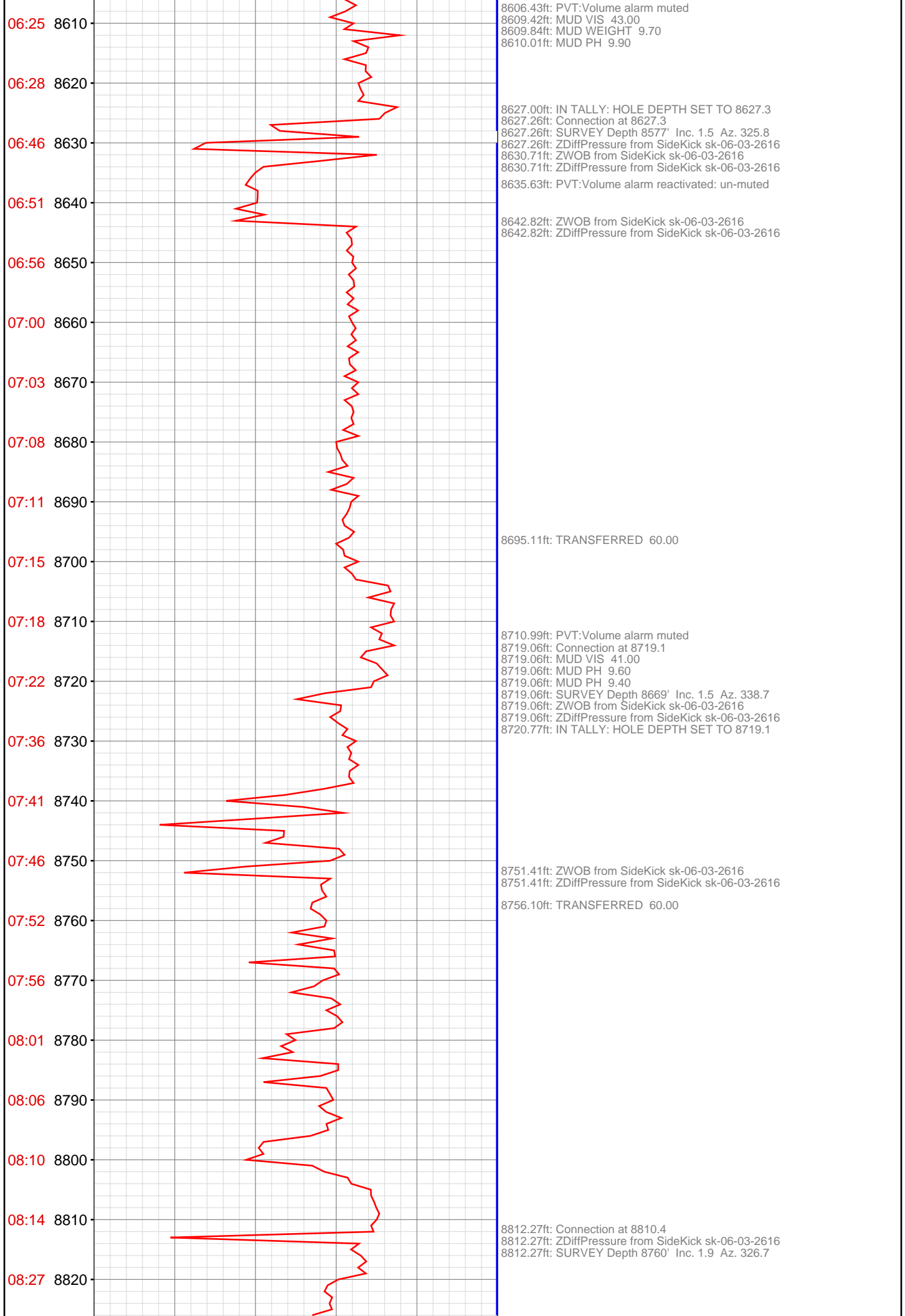


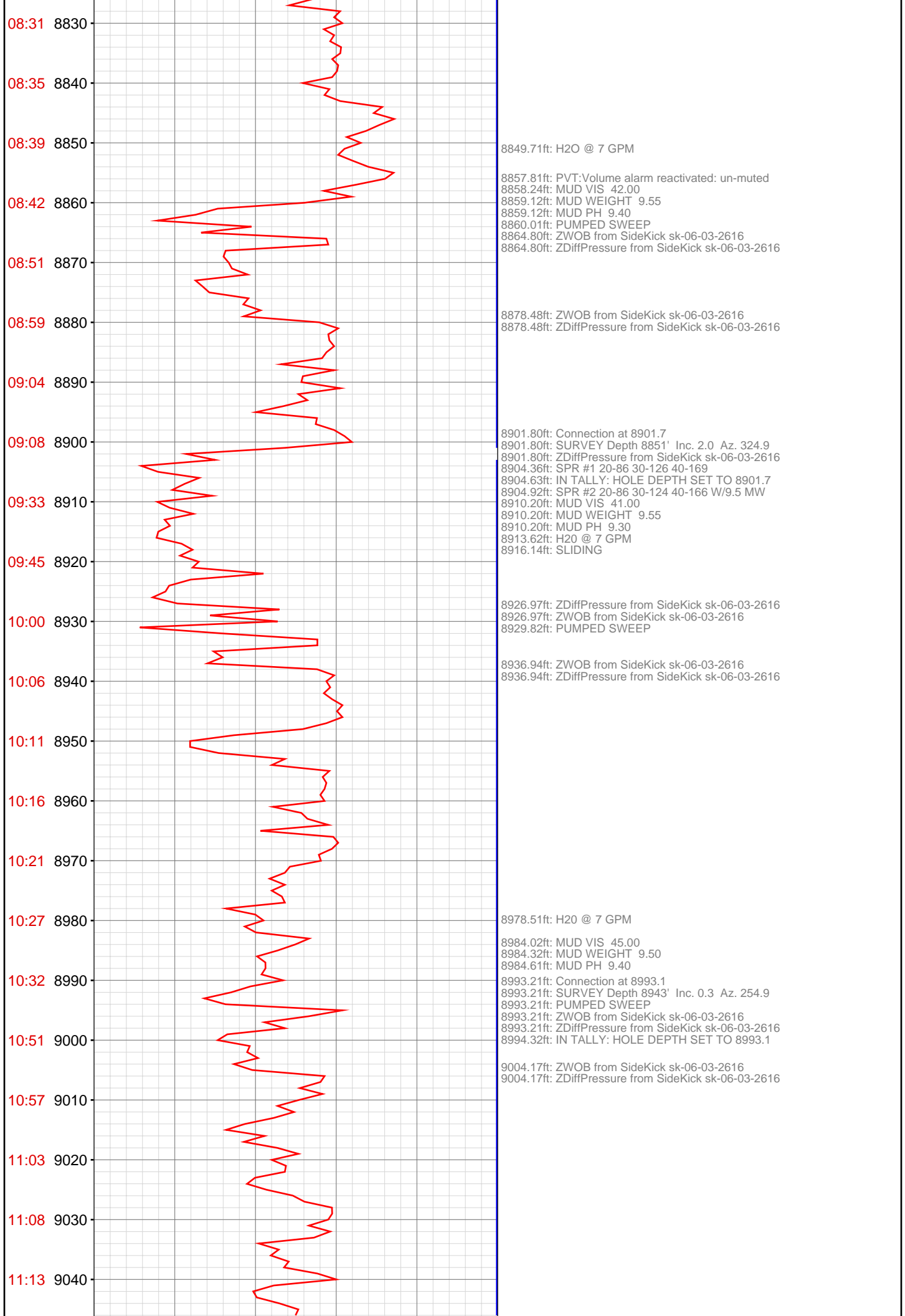


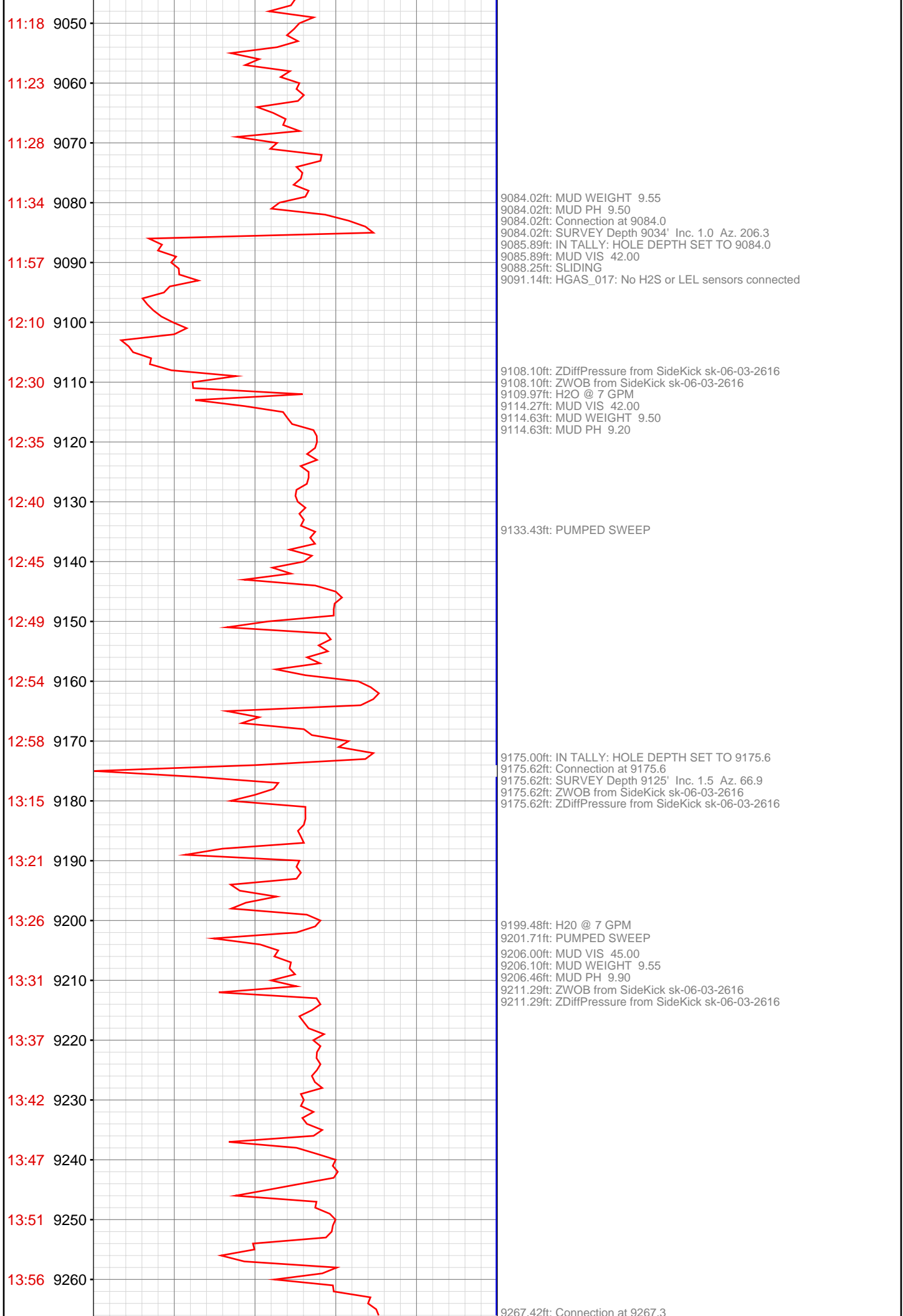


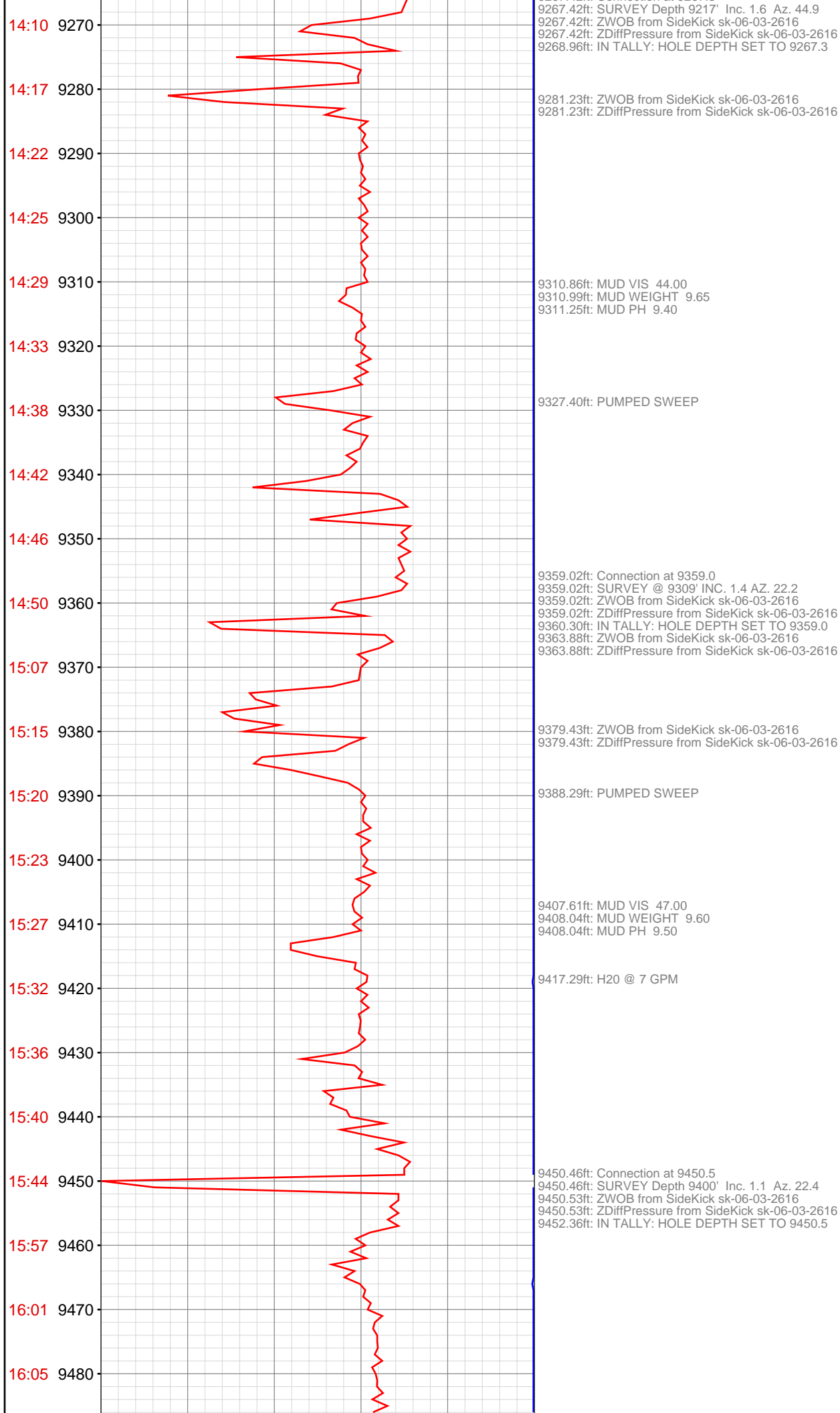


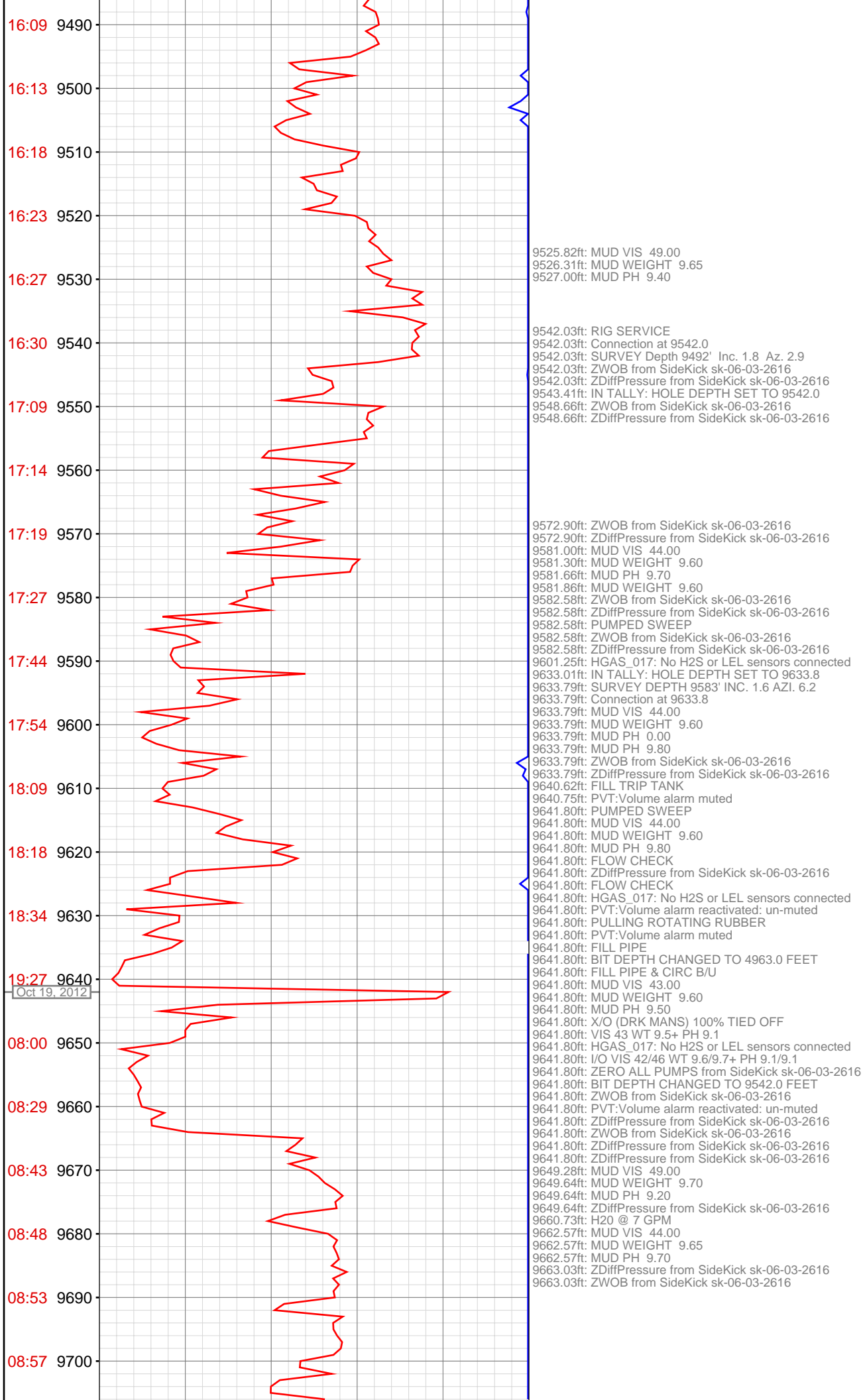


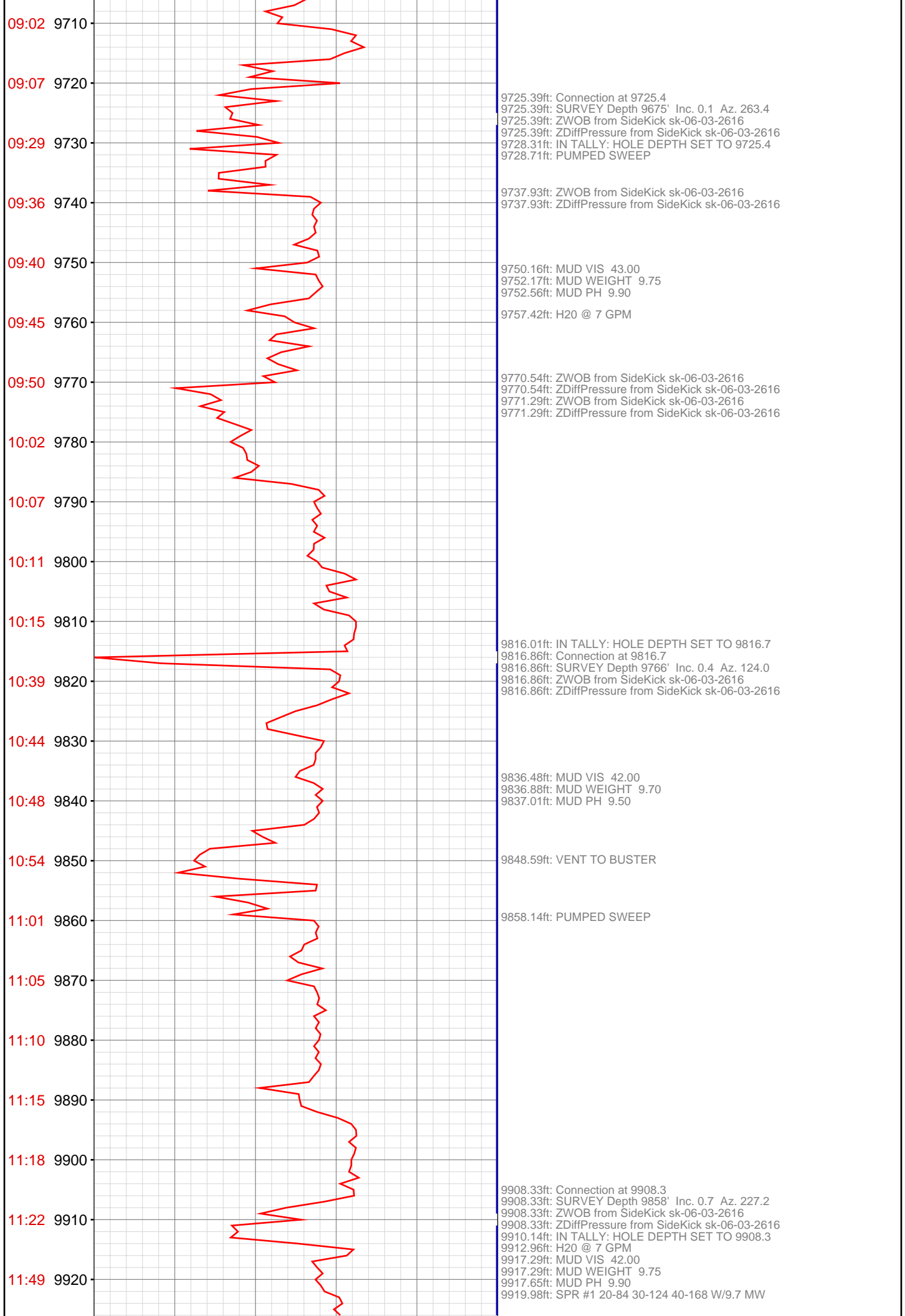


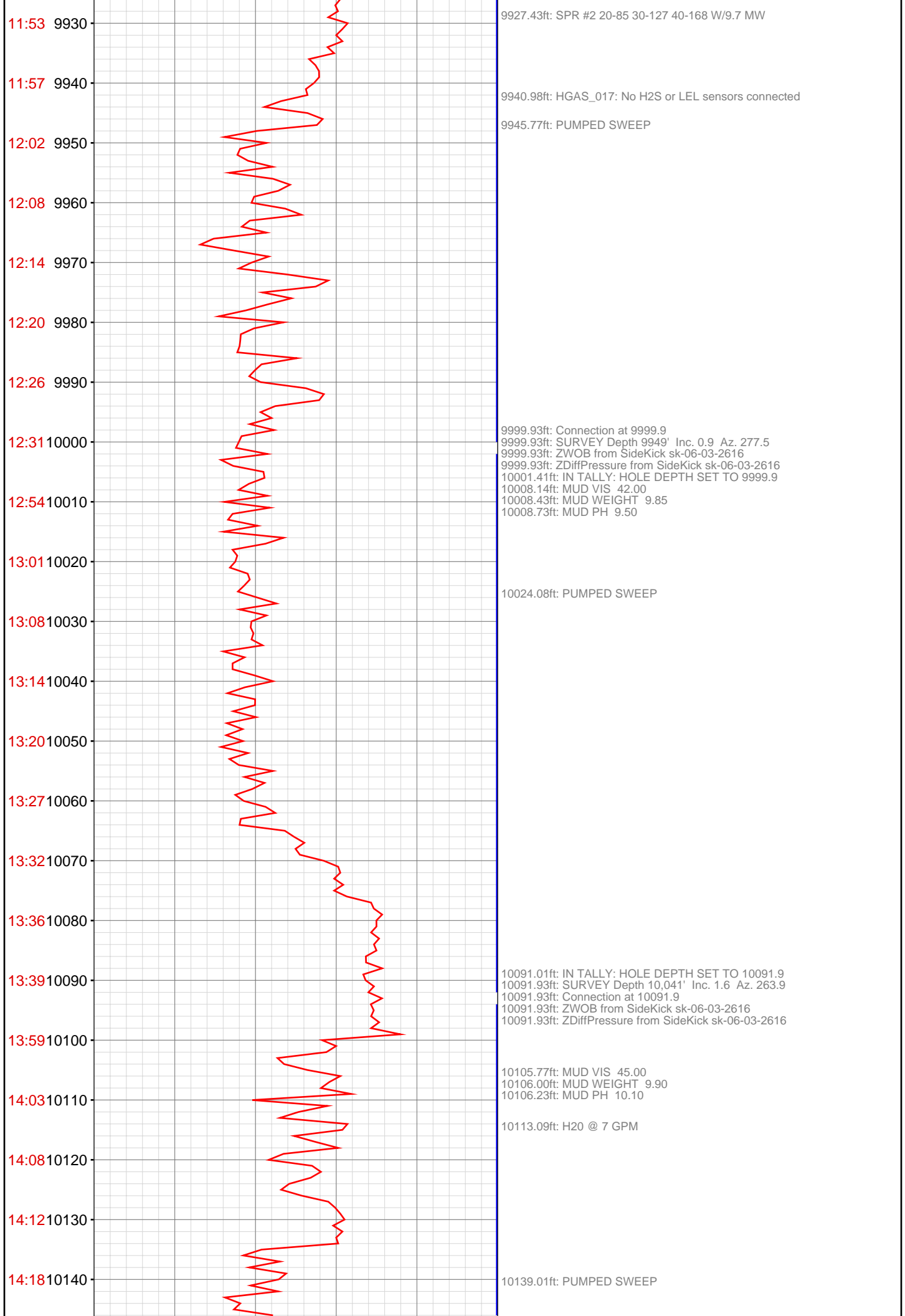


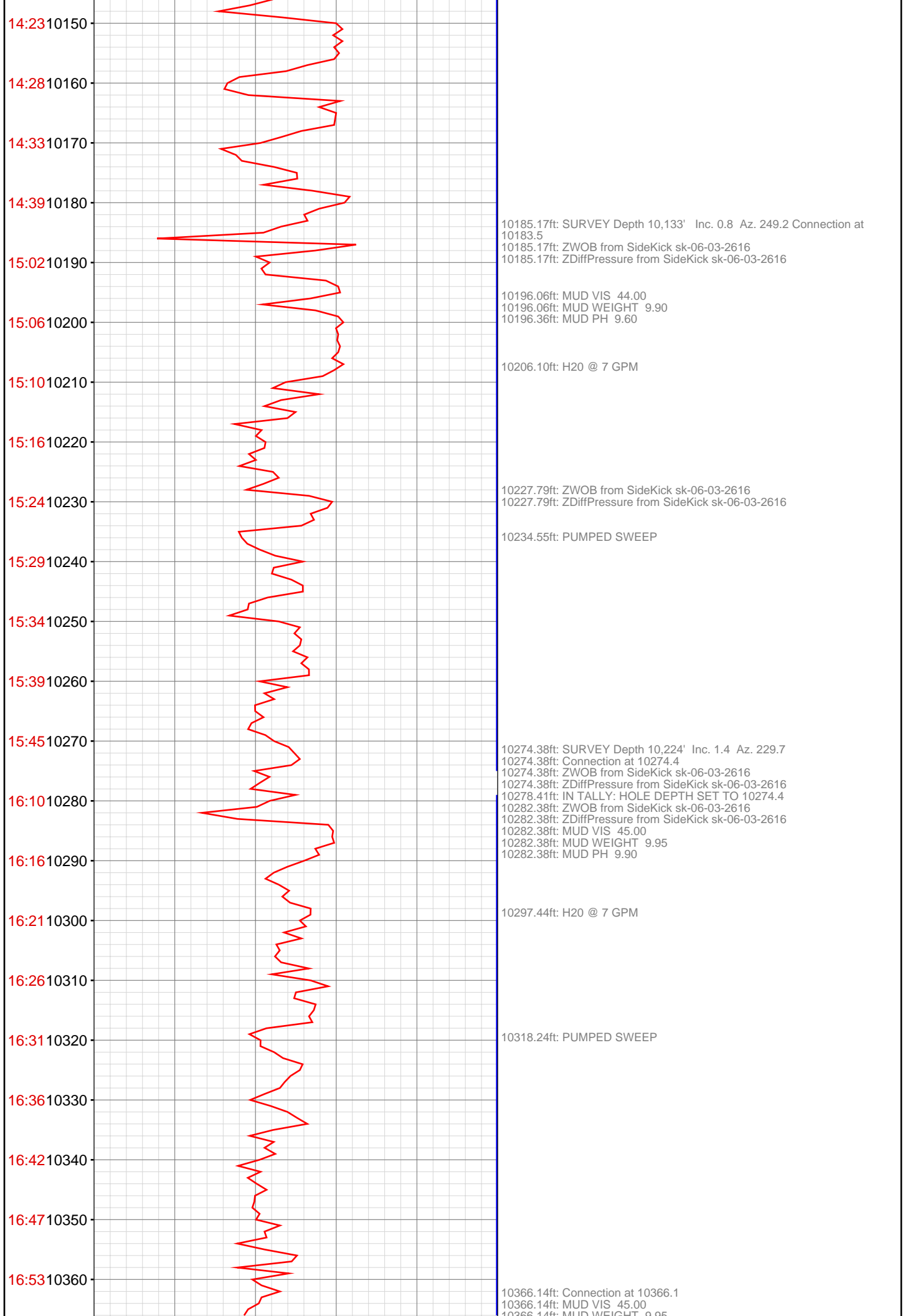


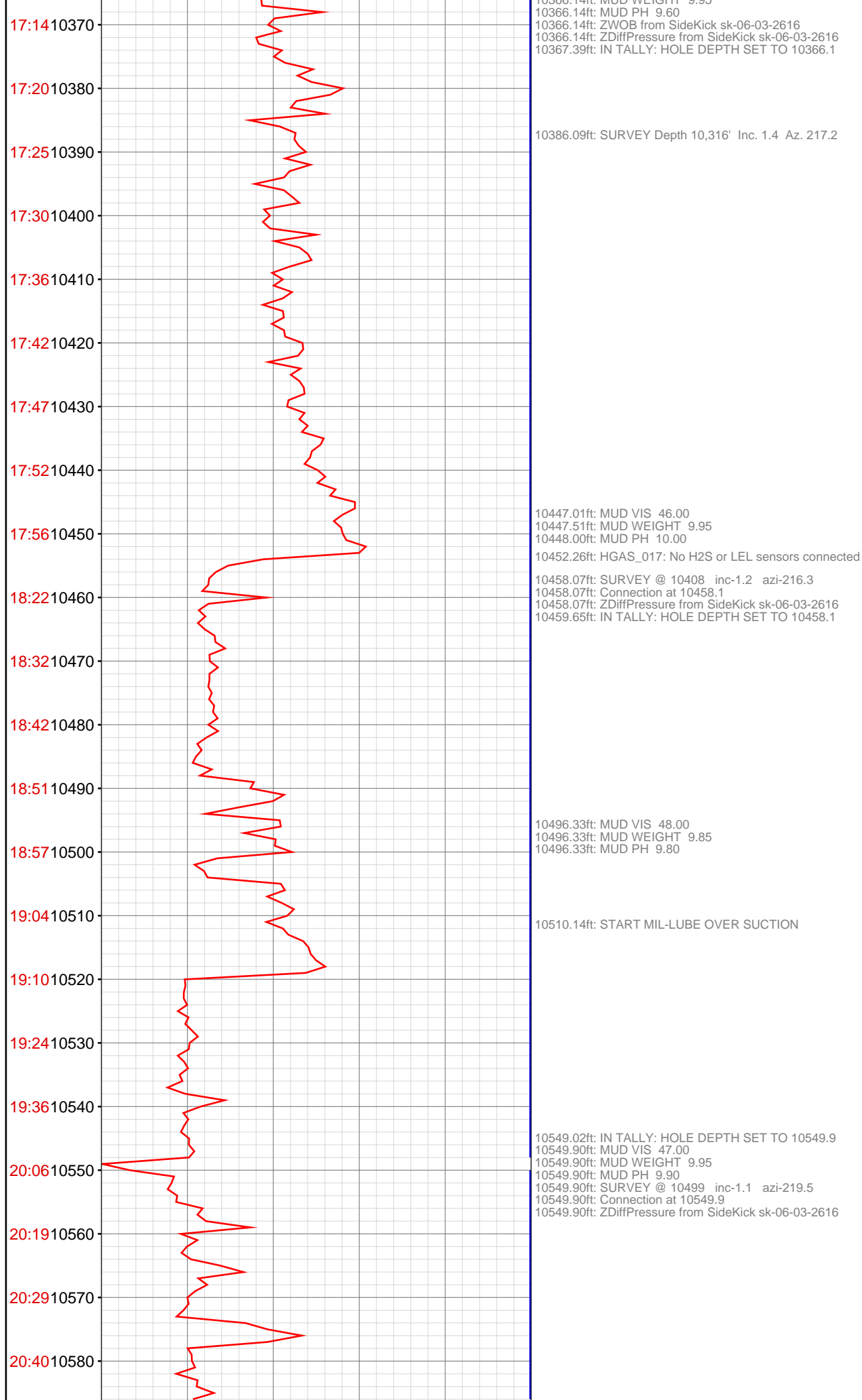




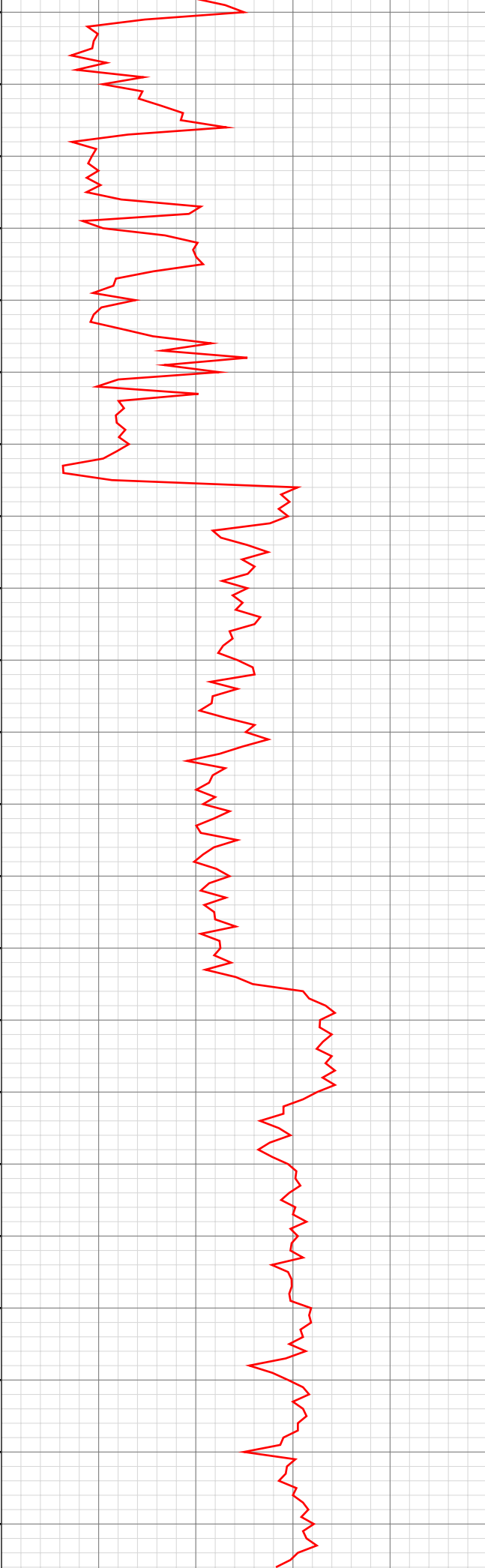








20:49 10590
21:01 10600
21:10 10610
21:21 10620
21:30 10630
21:39 10640
22:07 10650
22:16 10660
22:21 10670
22:27 10680
22:32 10690
22:37 10700
22:42 10710
22:48 10720
22:53 10730
23:16 10740
23:20 10750
23:24 10760
23:28 10770
23:32 10780
23:36 10790
23:40 10800



10591.01ft: MUD VIS 45.00
10591.01ft: MUD WEIGHT 10.00
10591.11ft: MUD PH 9.90

10641.40ft: SURVEY @ 10591 inc-1.6 azi-203.4
10641.40ft: Connection at 10641.4
10641.40ft: ZDiffPressure from SideKick sk-06-03-2616
10642.95ft: IN TALLY: HOLE DEPTH SET TO 10641.4

10694.09ft: MUD VIS 45.00
10694.78ft: MUD WEIGHT 10.00
10695.08ft: MUD PH 9.70

10733.33ft: Connection at 10733.4
10733.33ft: SURVEY @ 10683 inc-1.9 azi-211.5
10734.22ft: IN TALLY: HOLE DEPTH SET TO 10733.4

10779.99ft: MUD VIS 50.00
10780.18ft: MUD WEIGHT 10.00
10780.18ft: MUD PH 9.50

23:44 10810
23:50 10820
Oct 20, 2012
00:15 10830
00:21 10840
00:25 10850
00:30 10860
00:34 10870
00:40 10880
00:44 10890
00:48 10900
00:52 10910
01:16 10920
01:22 10930
01:26 10940
01:29 10950
01:33 10960
01:37 10970
01:41 10980
01:45 10990
01:48 11000
02:11 11010
02:13 11020



10824.90ft: HGAS_017: No H2S or LEL sensors connected
10824.90ft: SURVEY @ 10774 inc-1.5 azi-200.3
10824.90ft: Connection at 10824.9
10824.90ft: ZDiffPressure from SideKick sk-06-03-2616
10826.28ft: IN TALLY: HOLE DEPTH SET TO 10824.9

10874.77ft: MUD VIS 46.00
10875.07ft: MUD WEIGHT 10.00
10875.43ft: MUD PH 9.90

10916.01ft: IN TALLY: HOLE DEPTH SET TO 10916.3
10916.31ft: SURVEY @ 10866 inc-1.7 azi-209.4
10916.31ft: Connection at 10916.3
10916.31ft: ZDiffPressure from SideKick sk-06-03-2616

10967.98ft: MUD VIS 46.00
10968.44ft: MUD WEIGHT 10.00
10968.44ft: MUD PH 9.90

11008.10ft: Connection at 11008.1
11008.10ft: SURVEY @ 10958 inc-1.4 azi-197.4
11008.10ft: ZDiffPressure from SideKick sk-06-03-2616
11009.71ft: IN TALLY: HOLE DEPTH SET TO 11008.1

