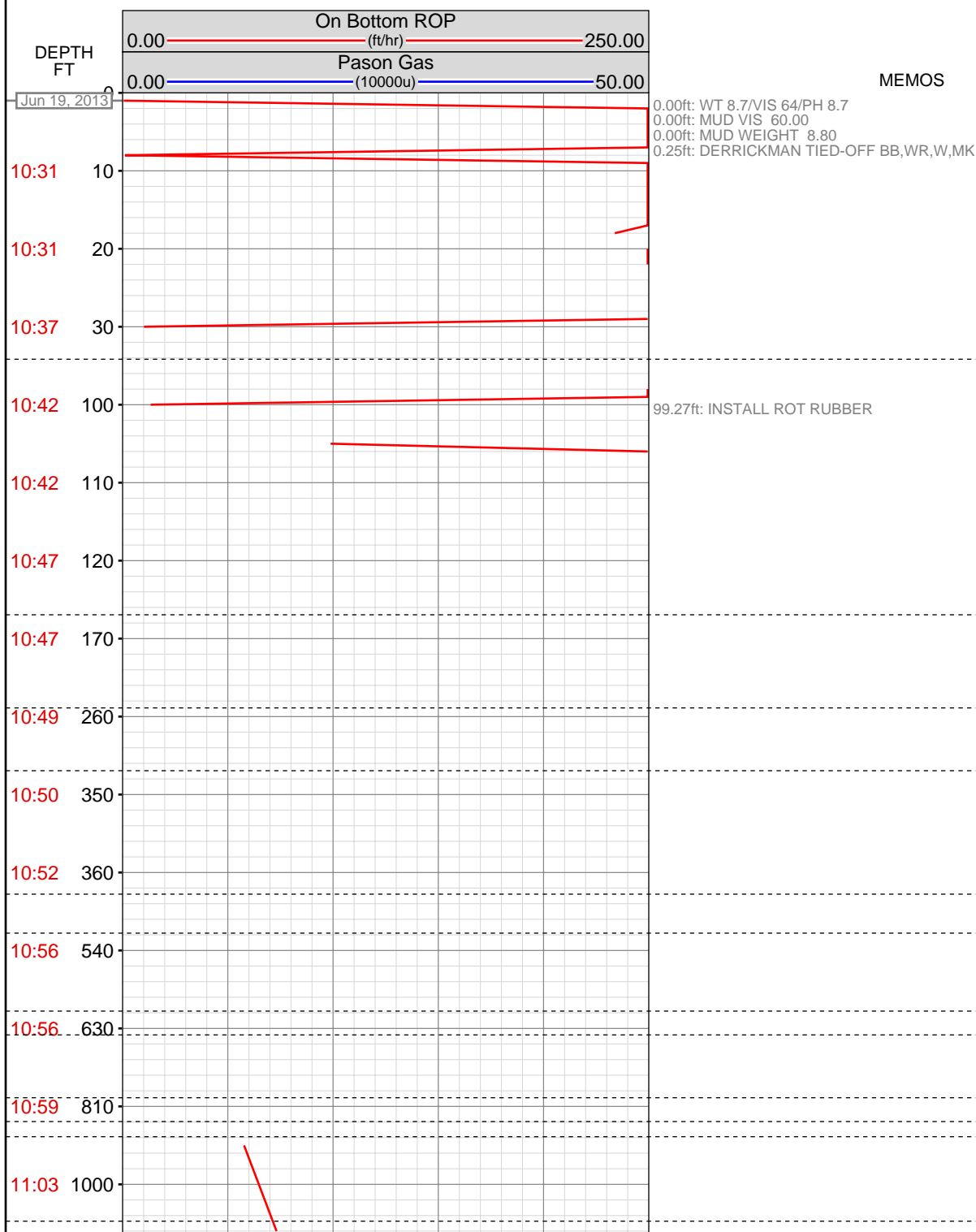


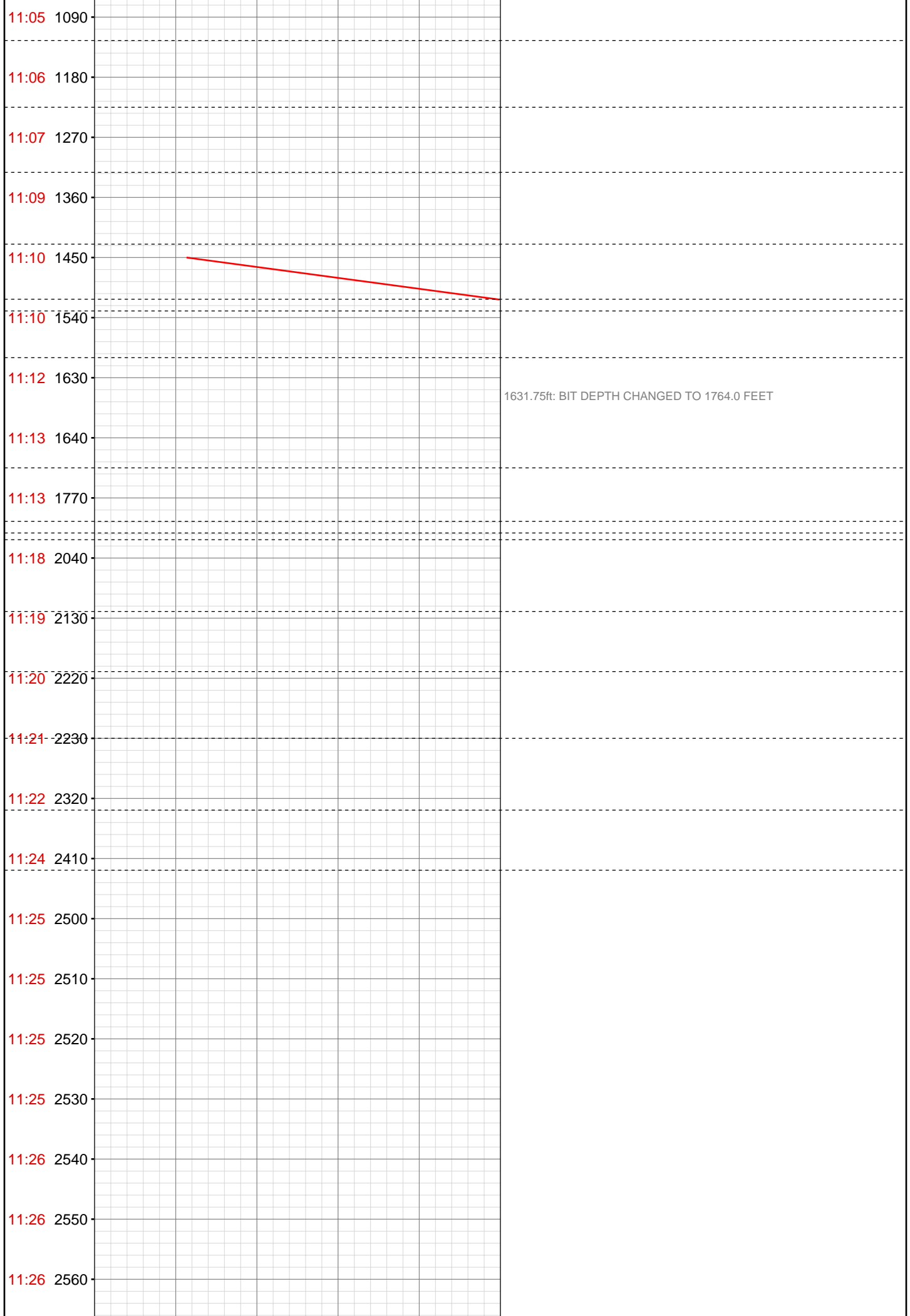
# DataHub EDR Log

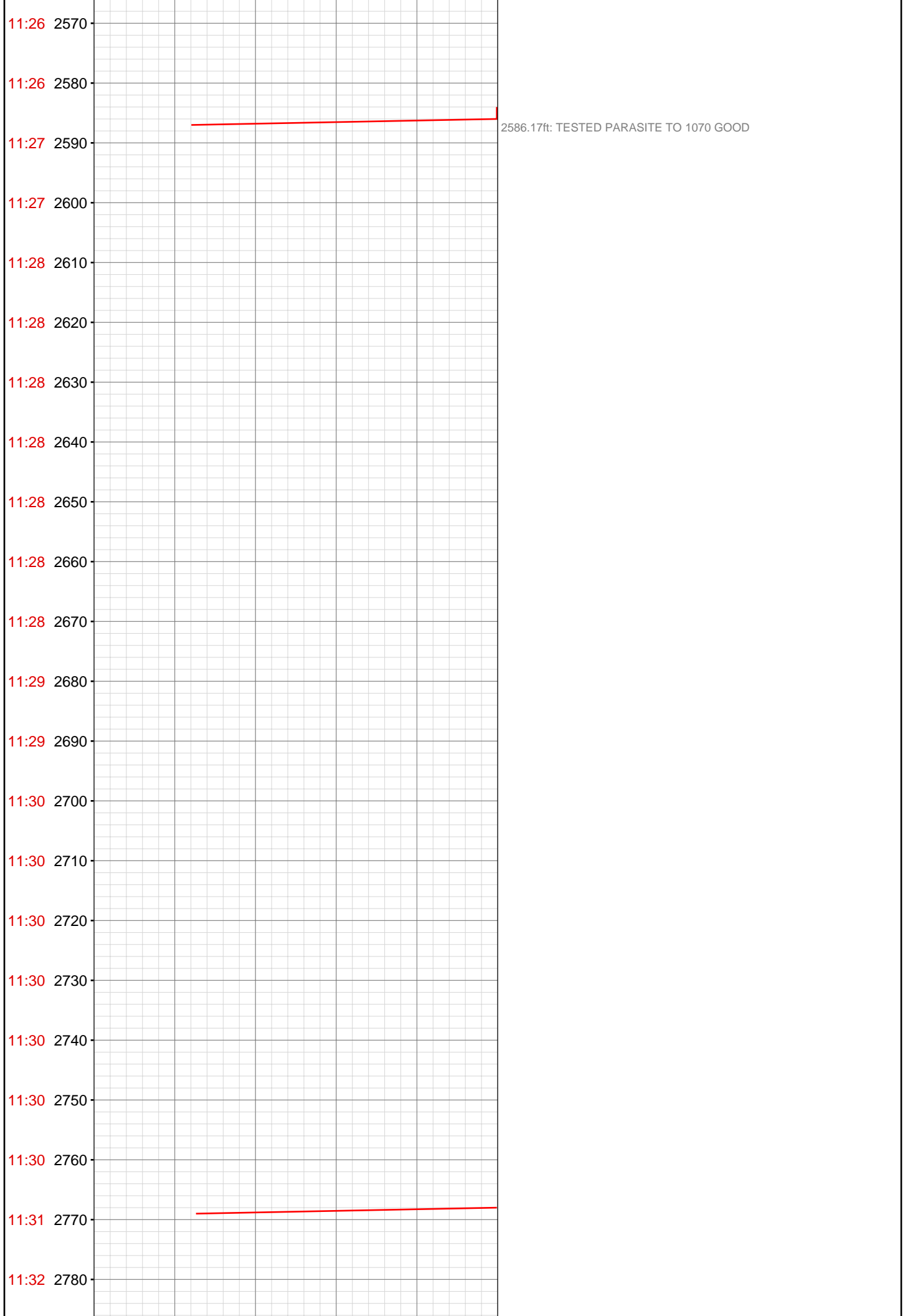
Mon Jul 01, 2013 14:19:47  
Well Dossier 1371630172  
Greg Veregin

**OPERATOR:** EnCana Oil & Gas (USA), Inc.  
**WELL:** SG 8512E-36 D36 496  
**FIELD:**  
**LOCATION:** SEC 36 T4S R96W LOT 4 447FNL  
**COUNTRY:** USA  
**RIG:** Pat-UTI 326

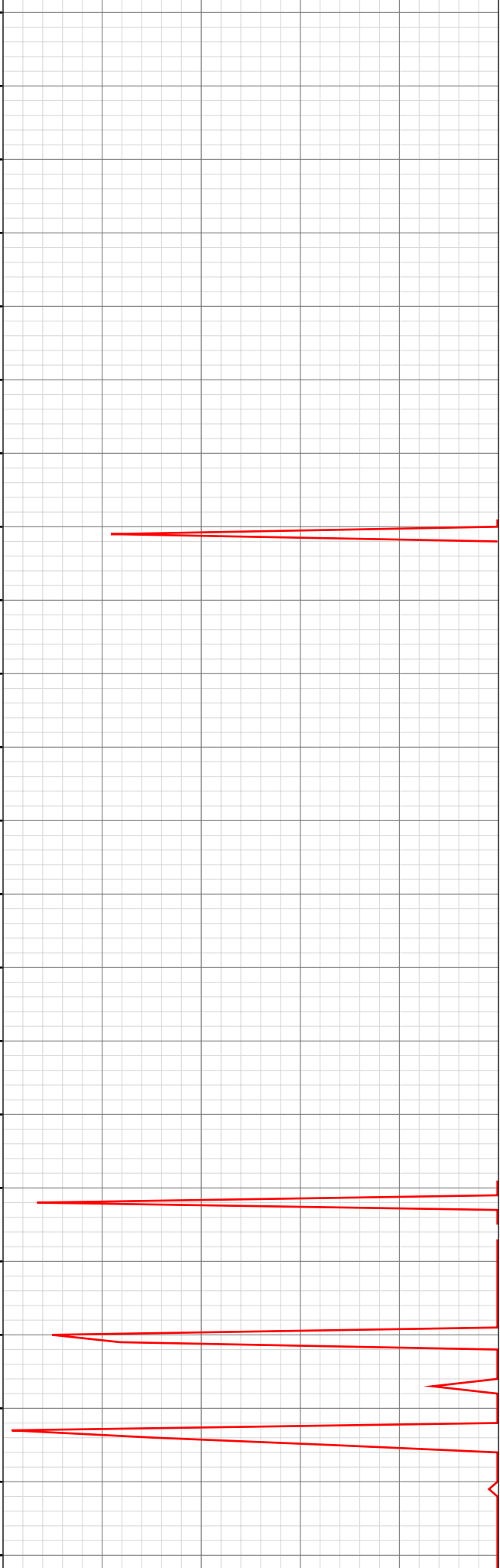
**CONTRACTOR:** Patterson-UTI Drilling Company  
**UNIQUE WELL ID:** 05-045-20918  
**SPUD DATE:** Jun 19, 2013 12:30  
**RELEASE DATE:** Jun 26, 2013 21:00





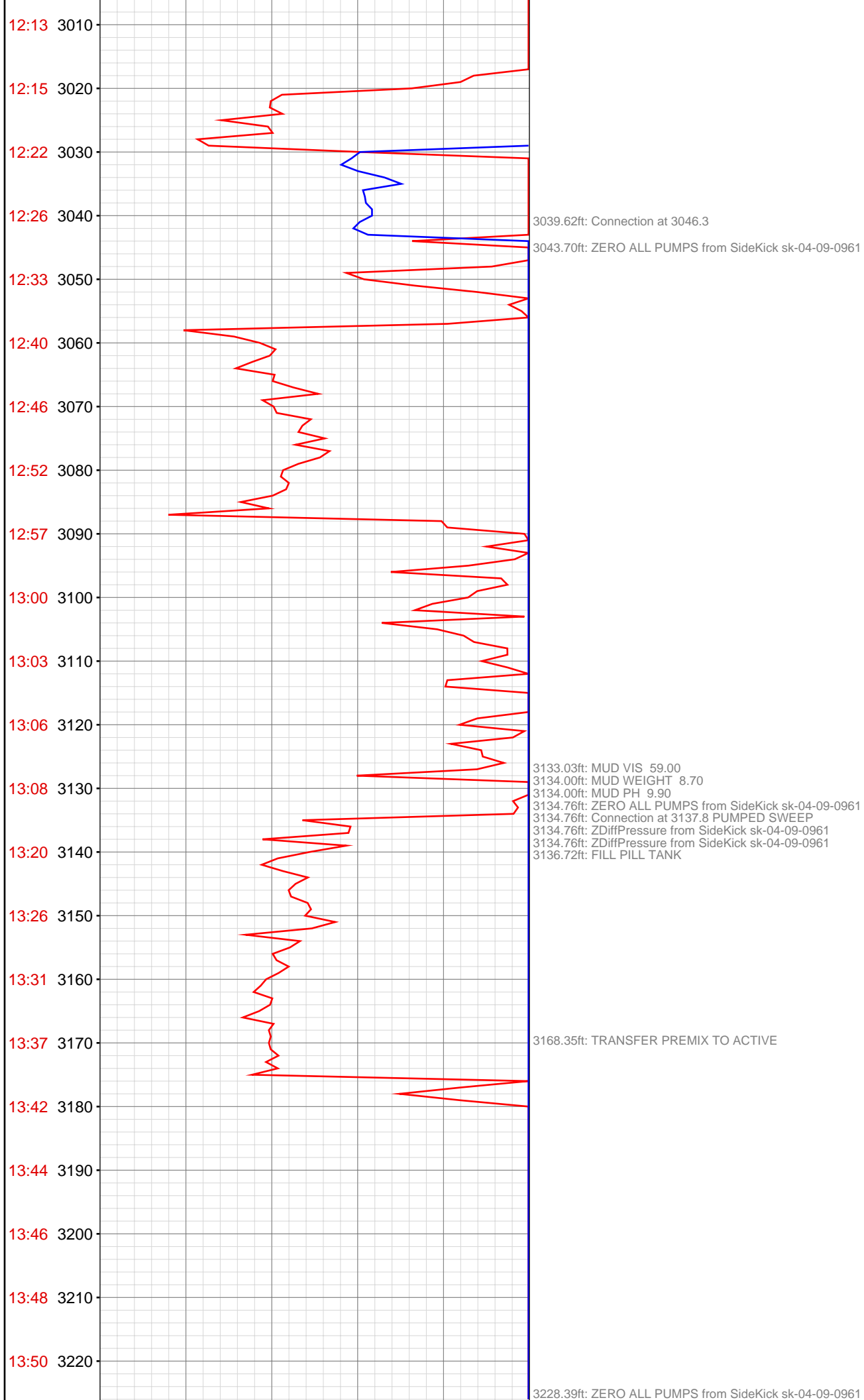


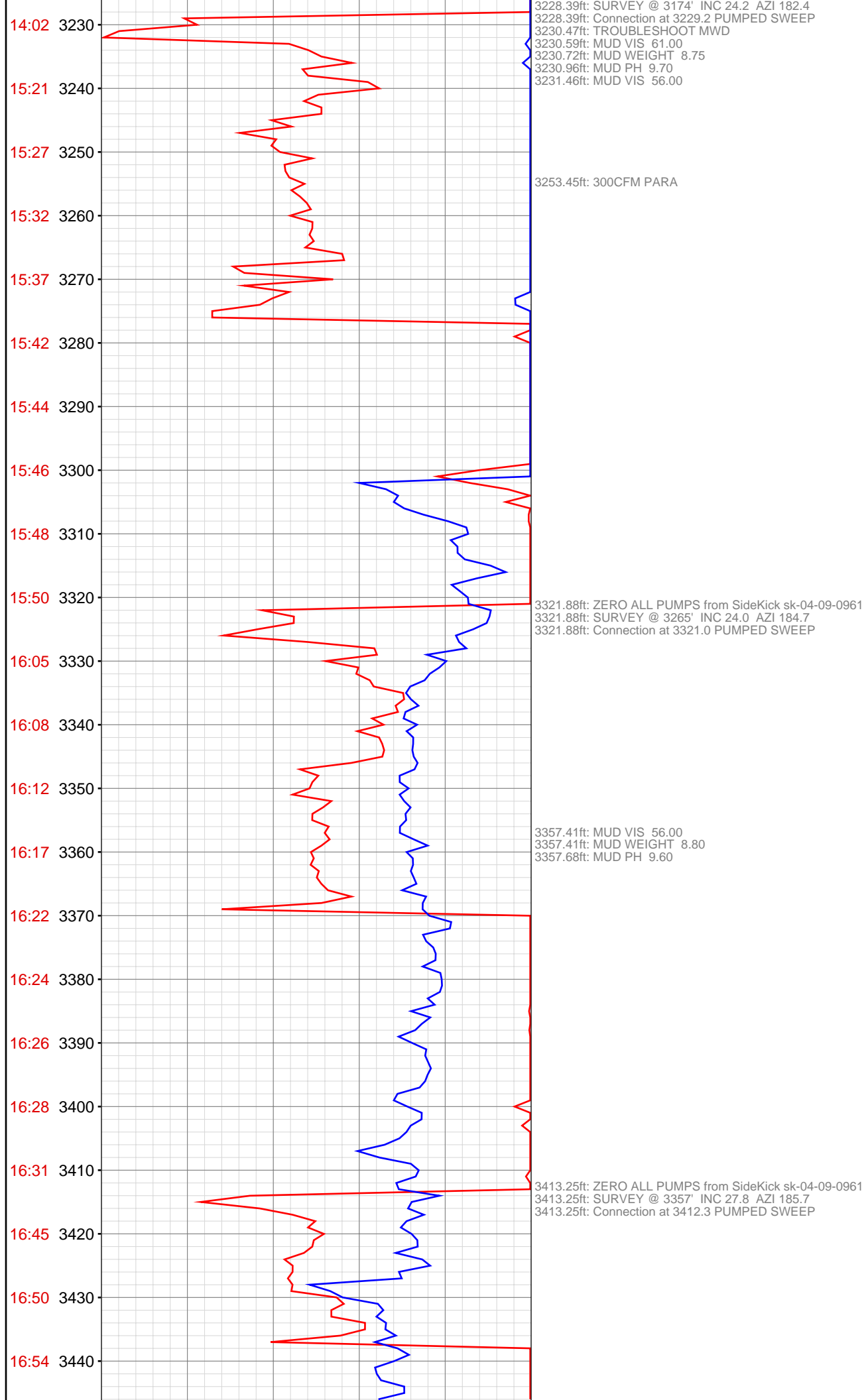
11:32 2790  
11:32 2800  
11:32 2810  
11:32 2820  
11:32 2830  
11:32 2840  
11:32 2850  
11:32 2860  
11:34 2870  
11:34 2880  
11:34 2890  
11:34 2900  
11:34 2910  
11:34 2920  
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11:35 2950  
11:41 2960  
11:45 2970  
11:48 2980  
12:10 2990  
12:12 3000

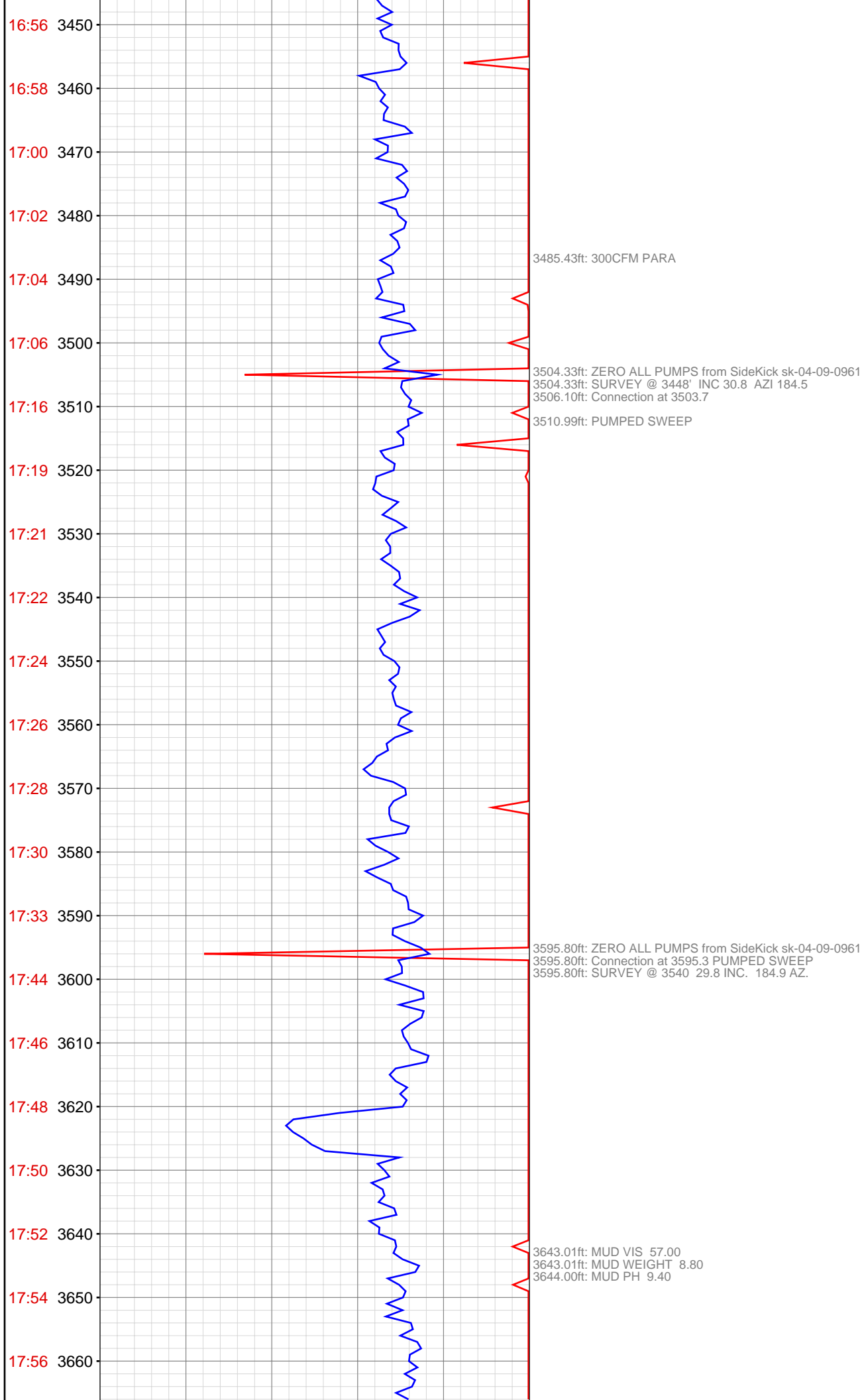


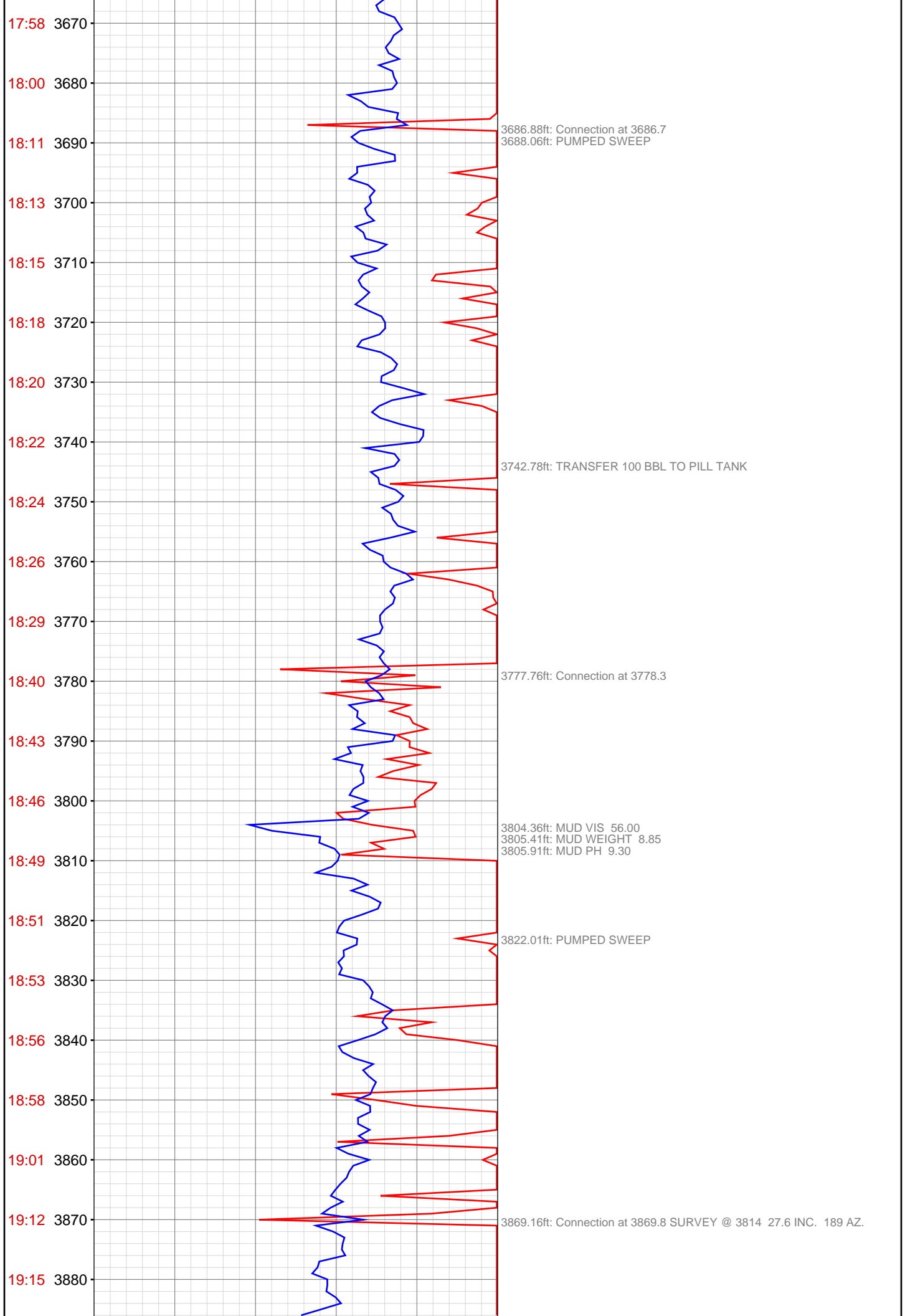
2969.94ft: TESTED DP AIR TO 3200PSI GOOD

2982.66ft: ZWOB from SideKick sk-04-09-0961  
2982.66ft: ZDiffPressure from SideKick sk-04-09-0961  
2982.66ft: PVT:Volume alarm reactivated: un-muted

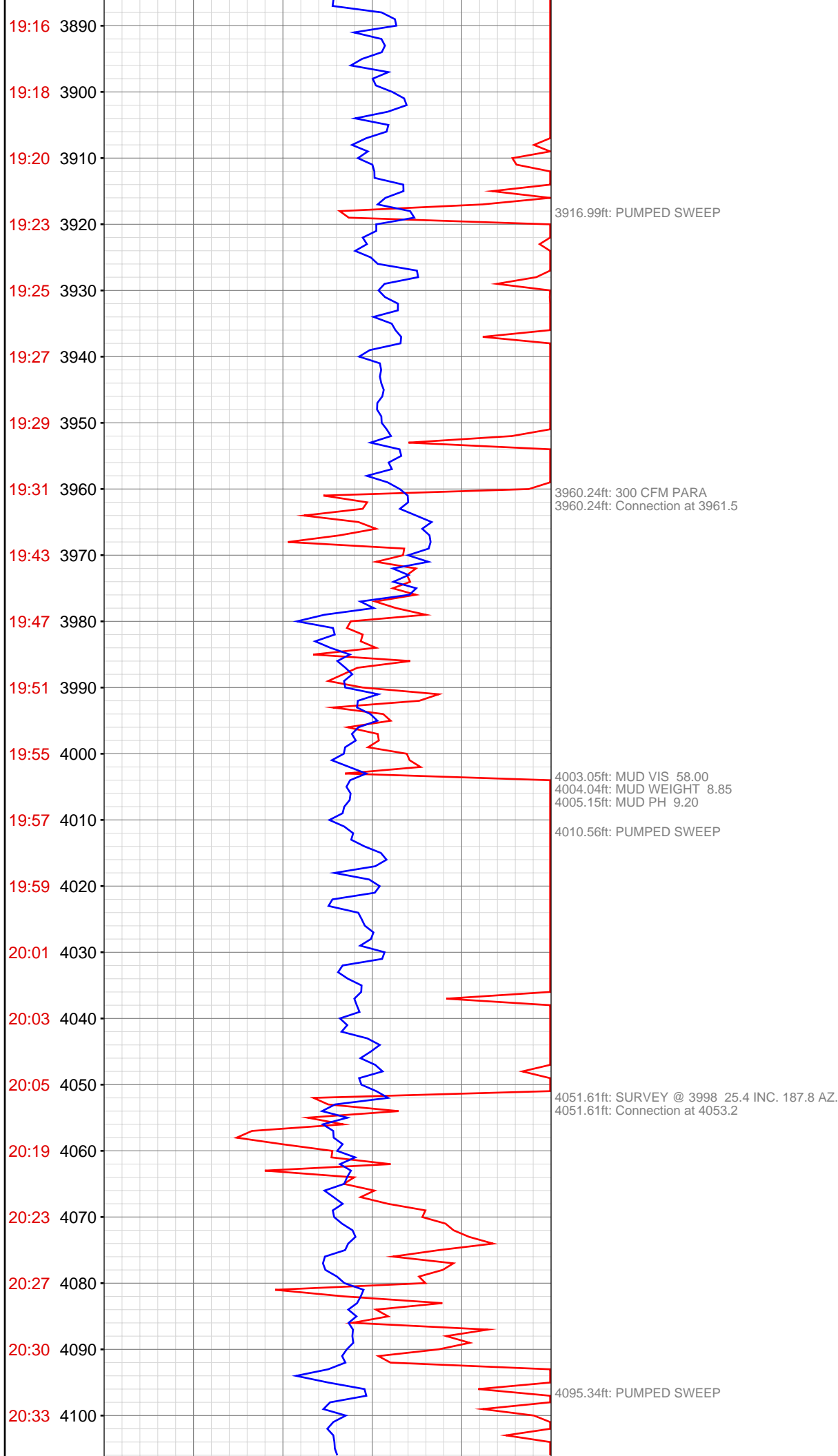


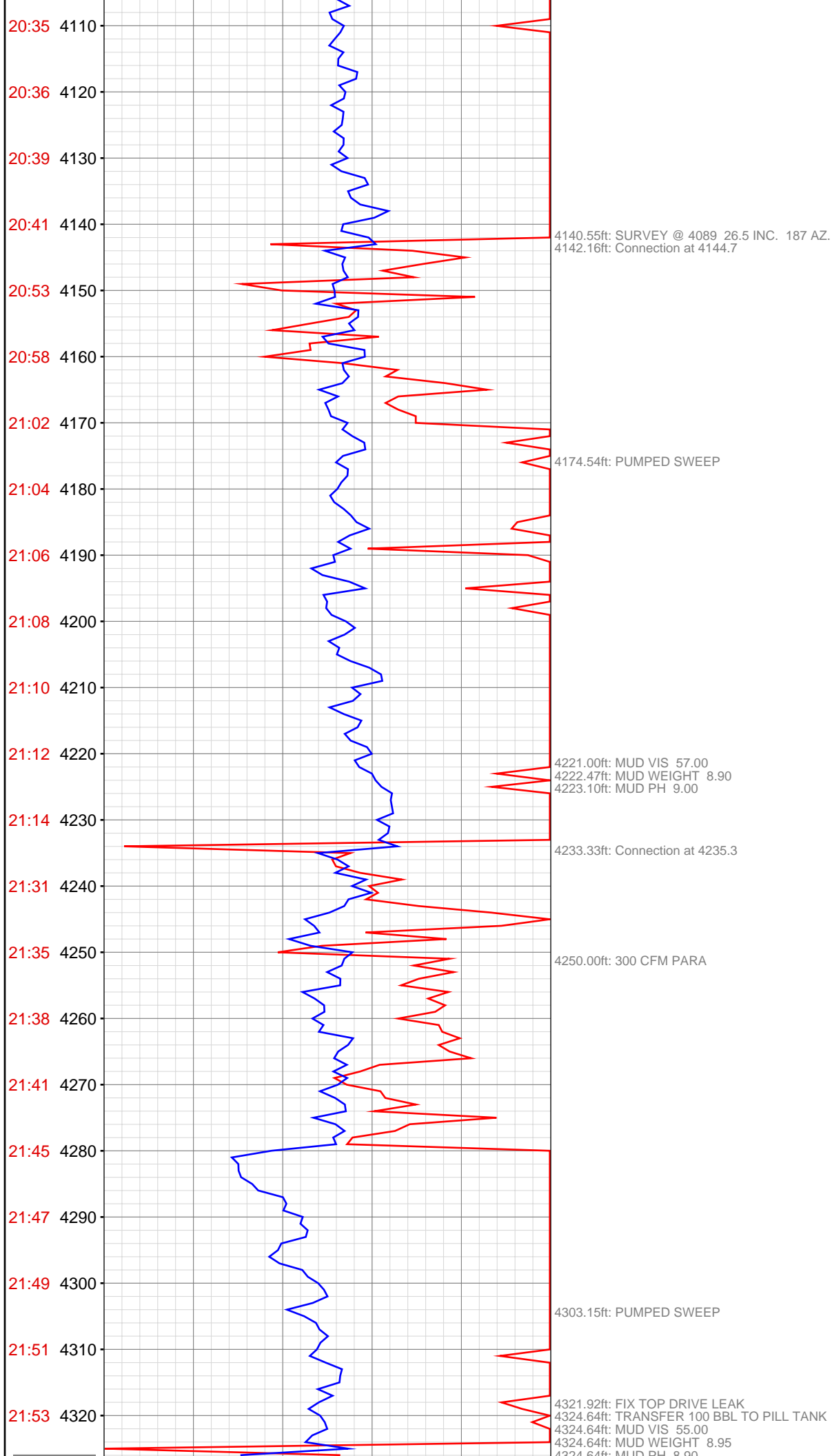












Jun 20, 2013

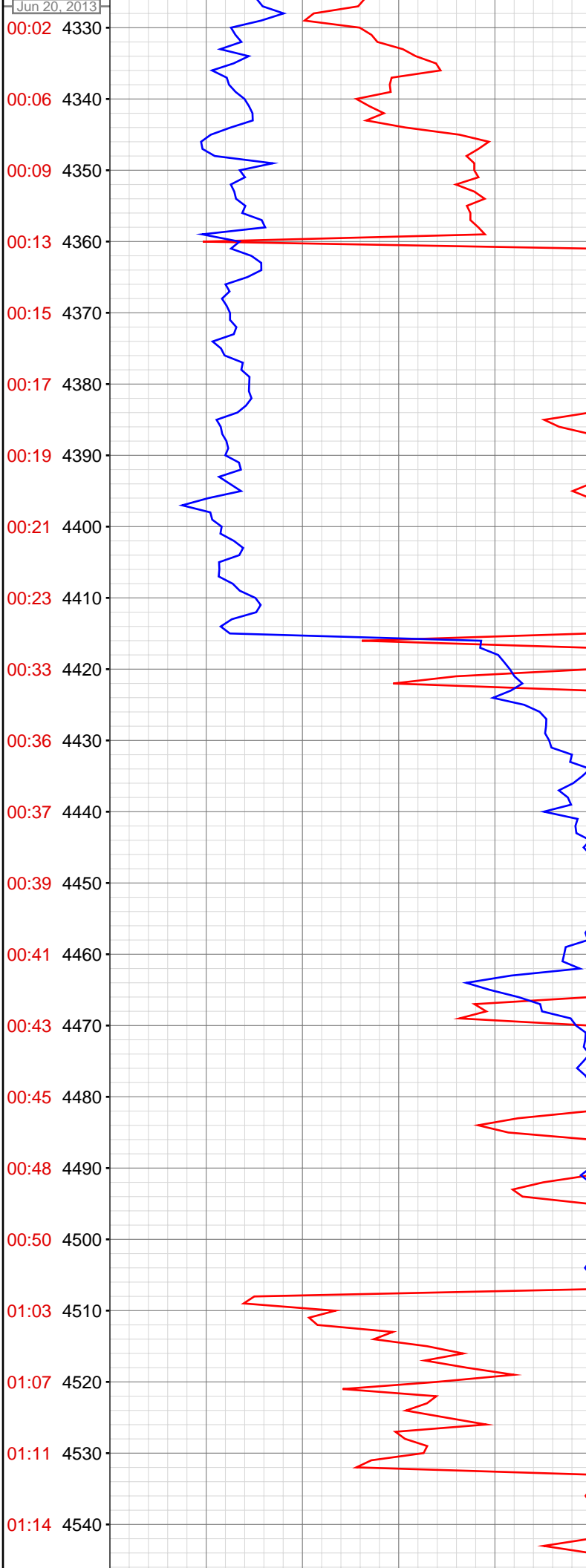
4324.64ft: MUD PWT 8.90  
4324.64ft: MUD VIS 56.00  
4324.64ft: MUD PH 9.00  
4324.64ft: 300 CFM PARA  
4324.64ft: Connection at 4326.6  
4324.64ft: MUD VIS 54.00  
4324.64ft: MUD WEIGHT 8.90  
4324.64ft: MUD PH 9.00

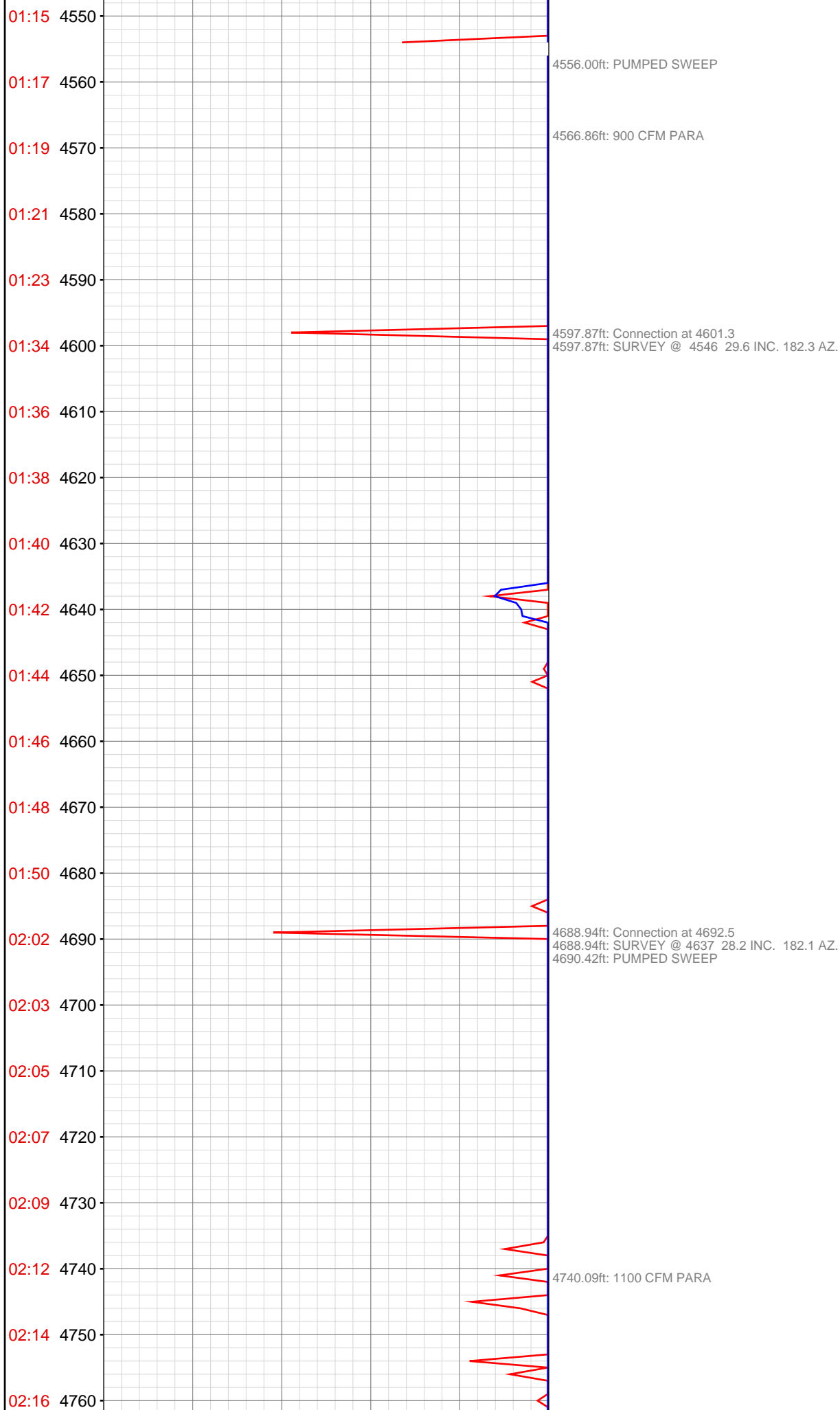
4359.68ft: PUMPED SWEEP

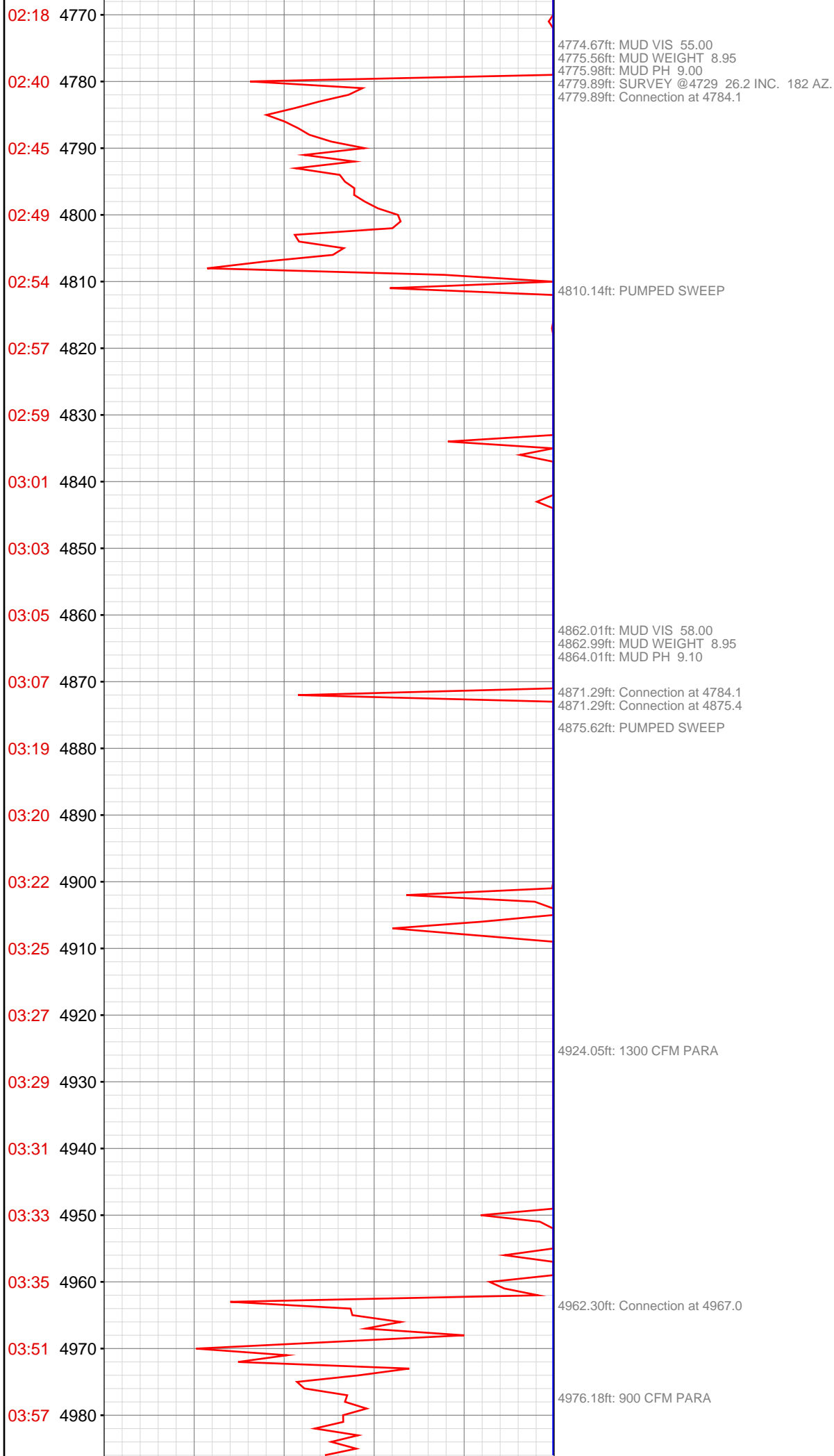
4415.88ft: 300 CFM PARA  
4415.88ft: Connection at 4418.1

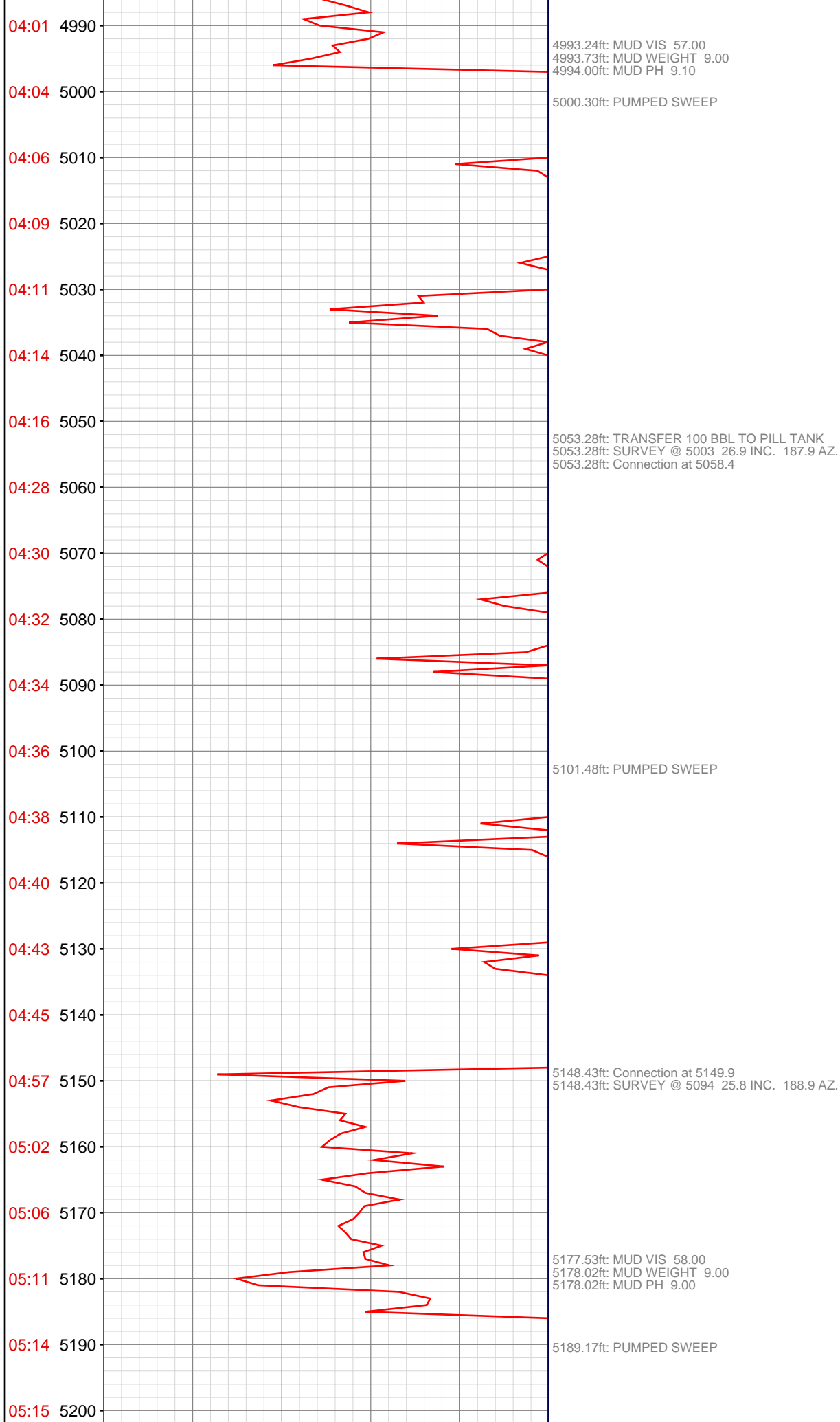
4507.09ft: Connection at 4509.8 500 CFM PRA  
4507.09ft: MUD VIS 54.00  
4507.09ft: MUD WEIGHT 8.90  
4507.09ft: MUD PH 8.90

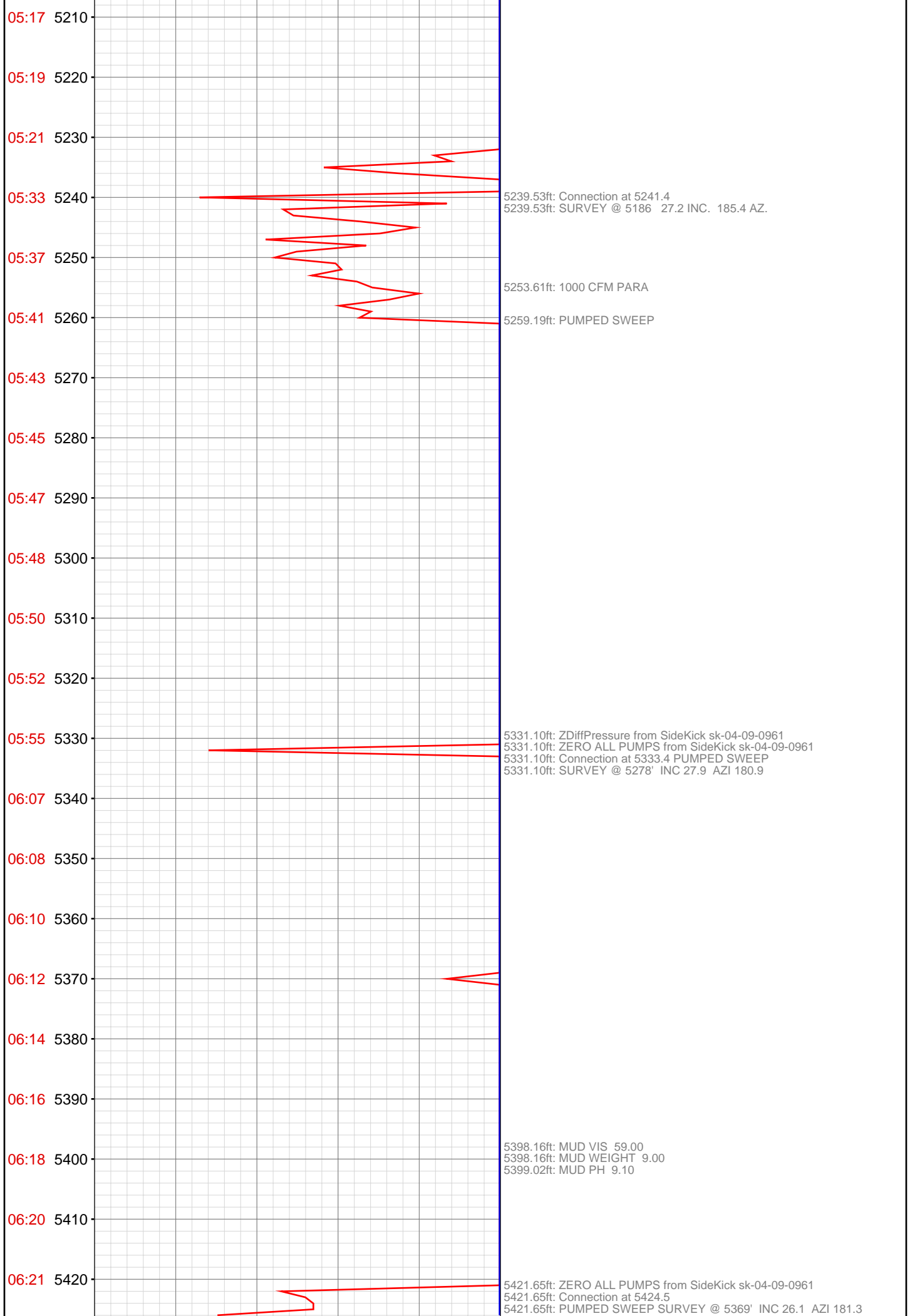
4518.67ft: 700 CFM PARA

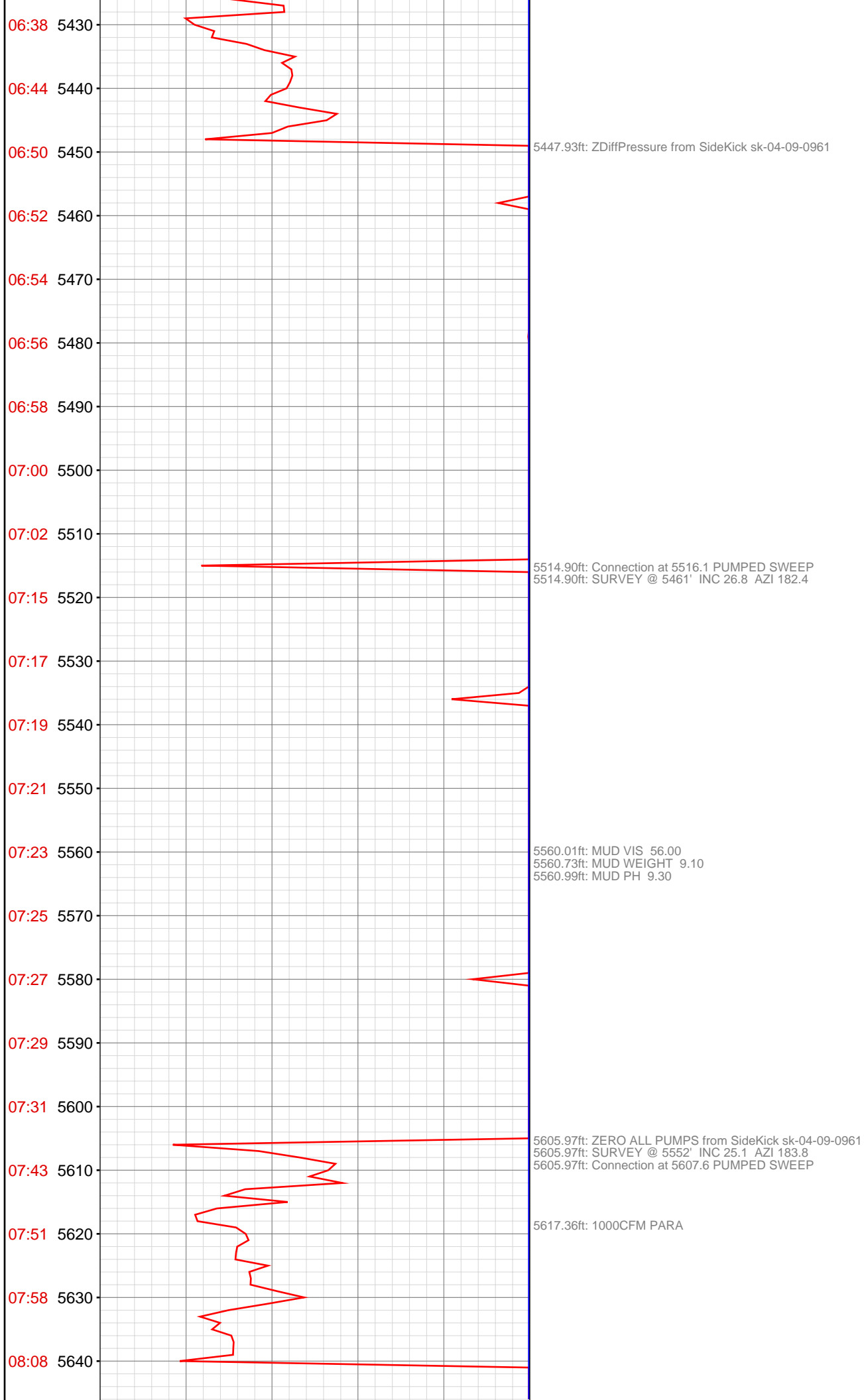




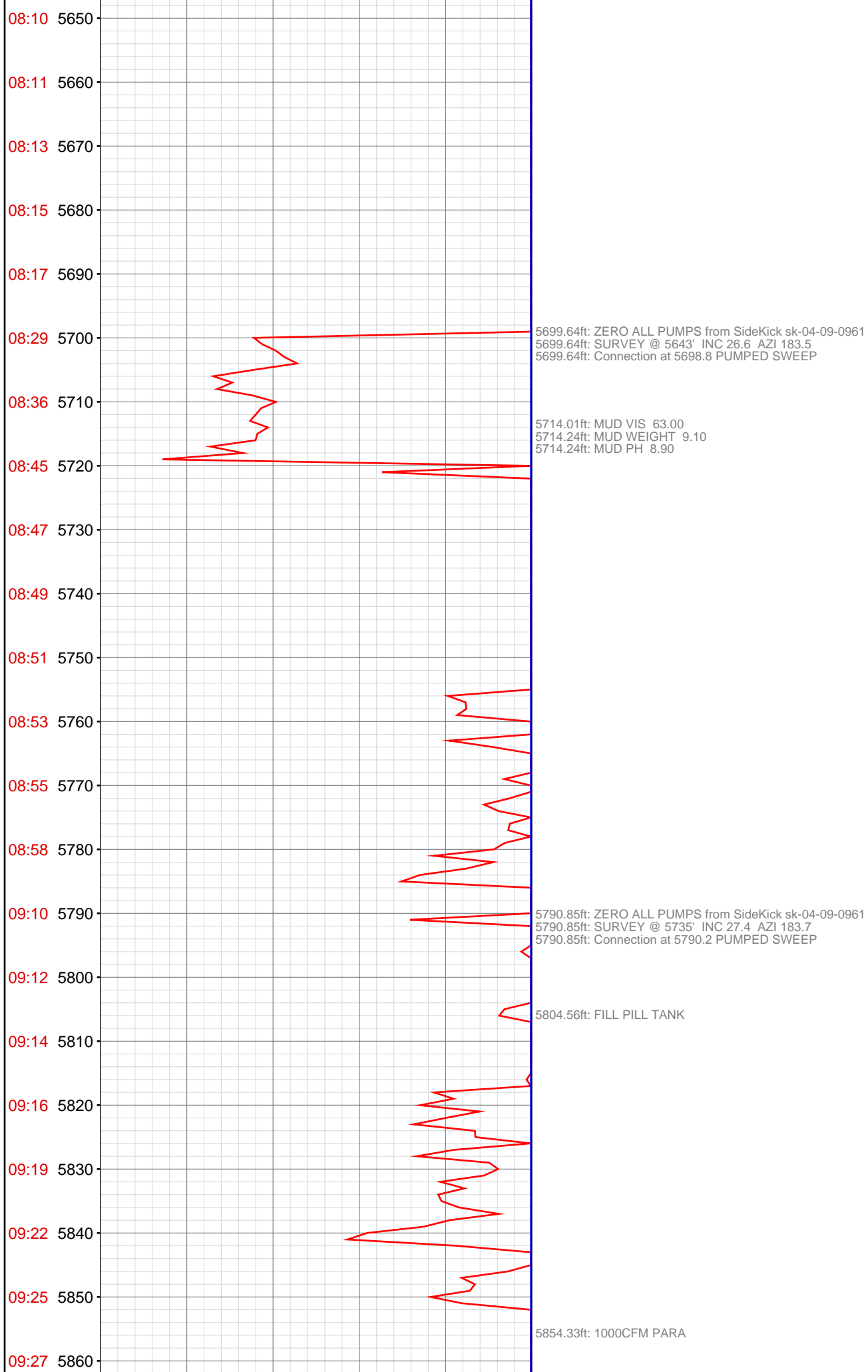


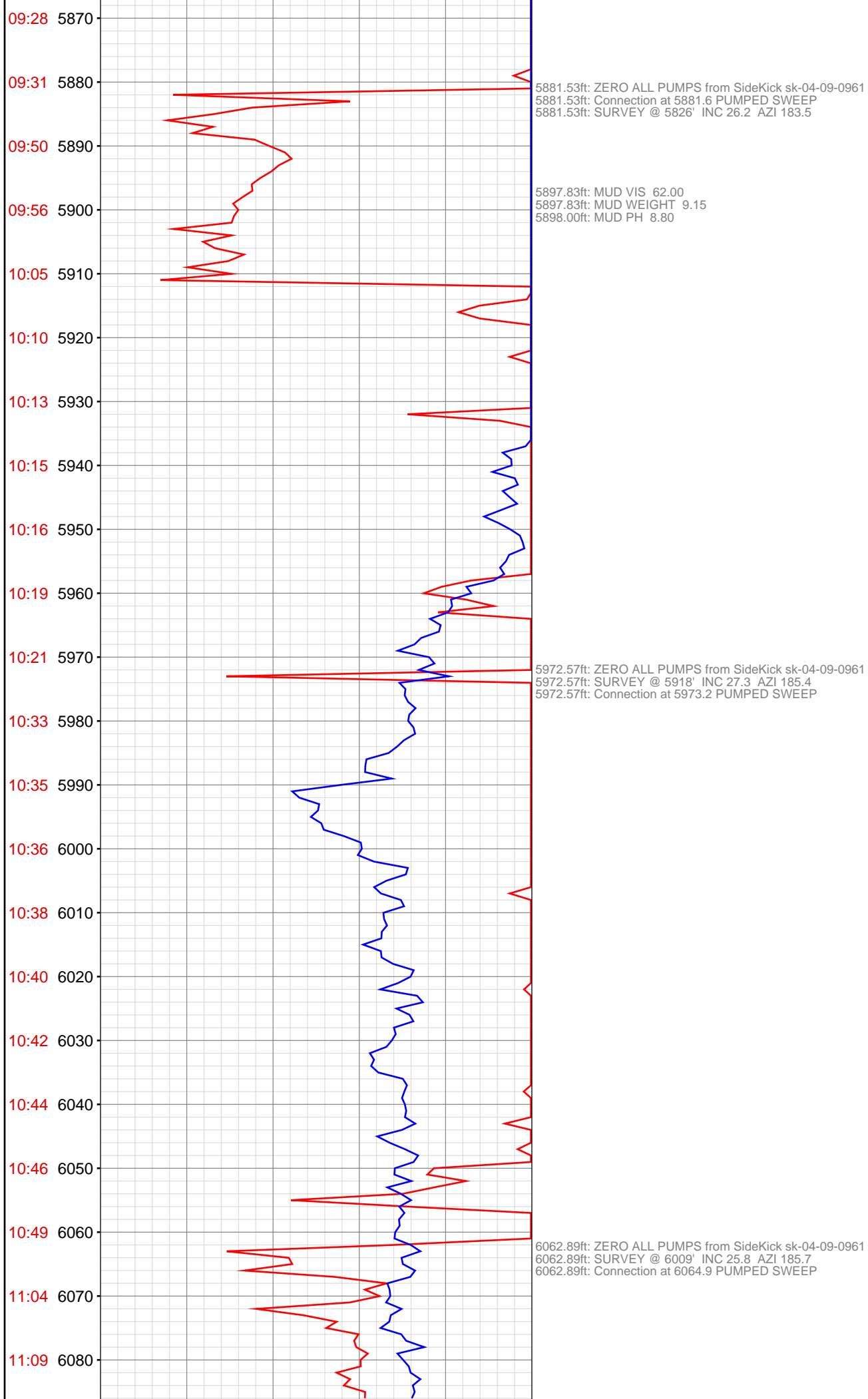


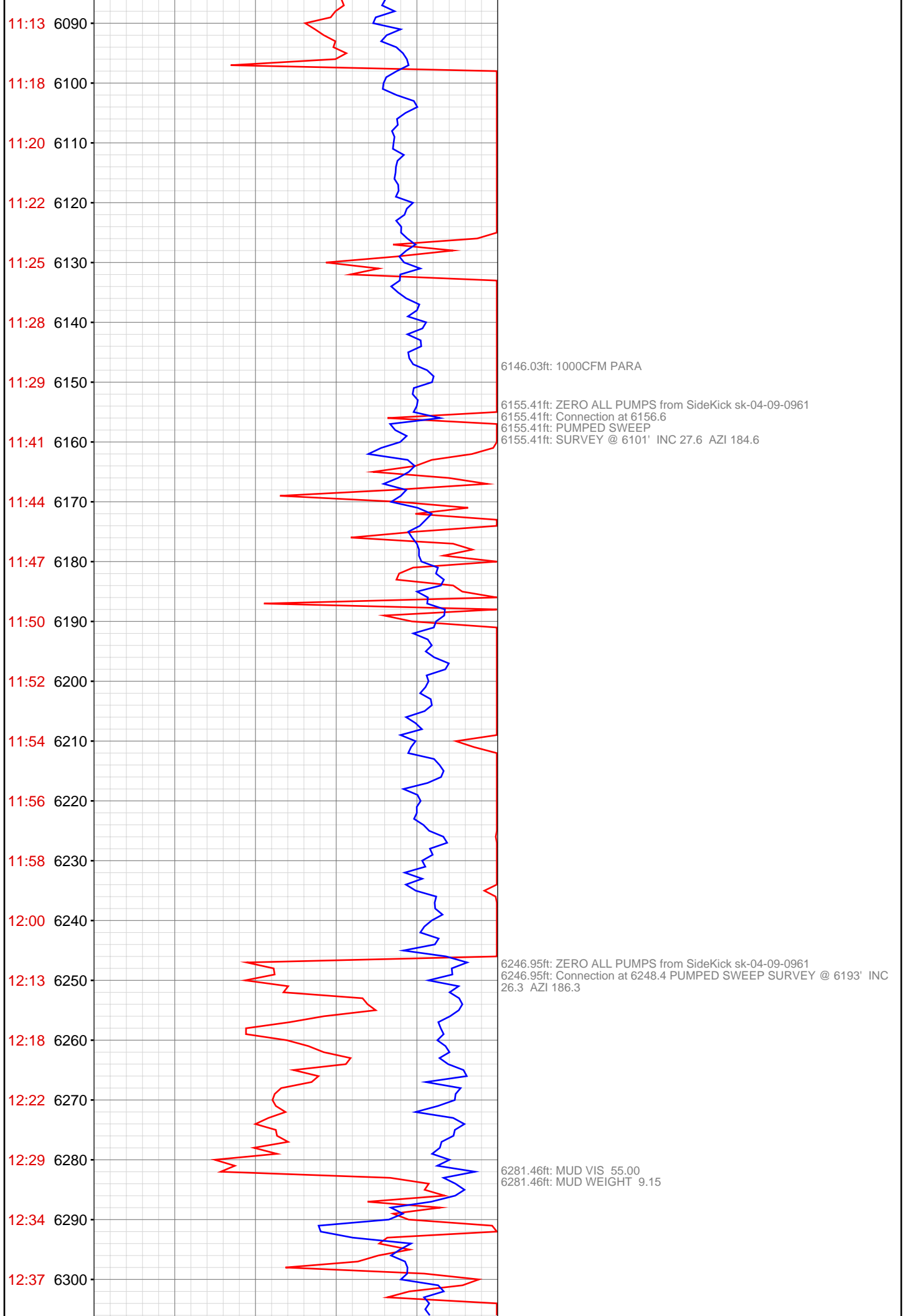


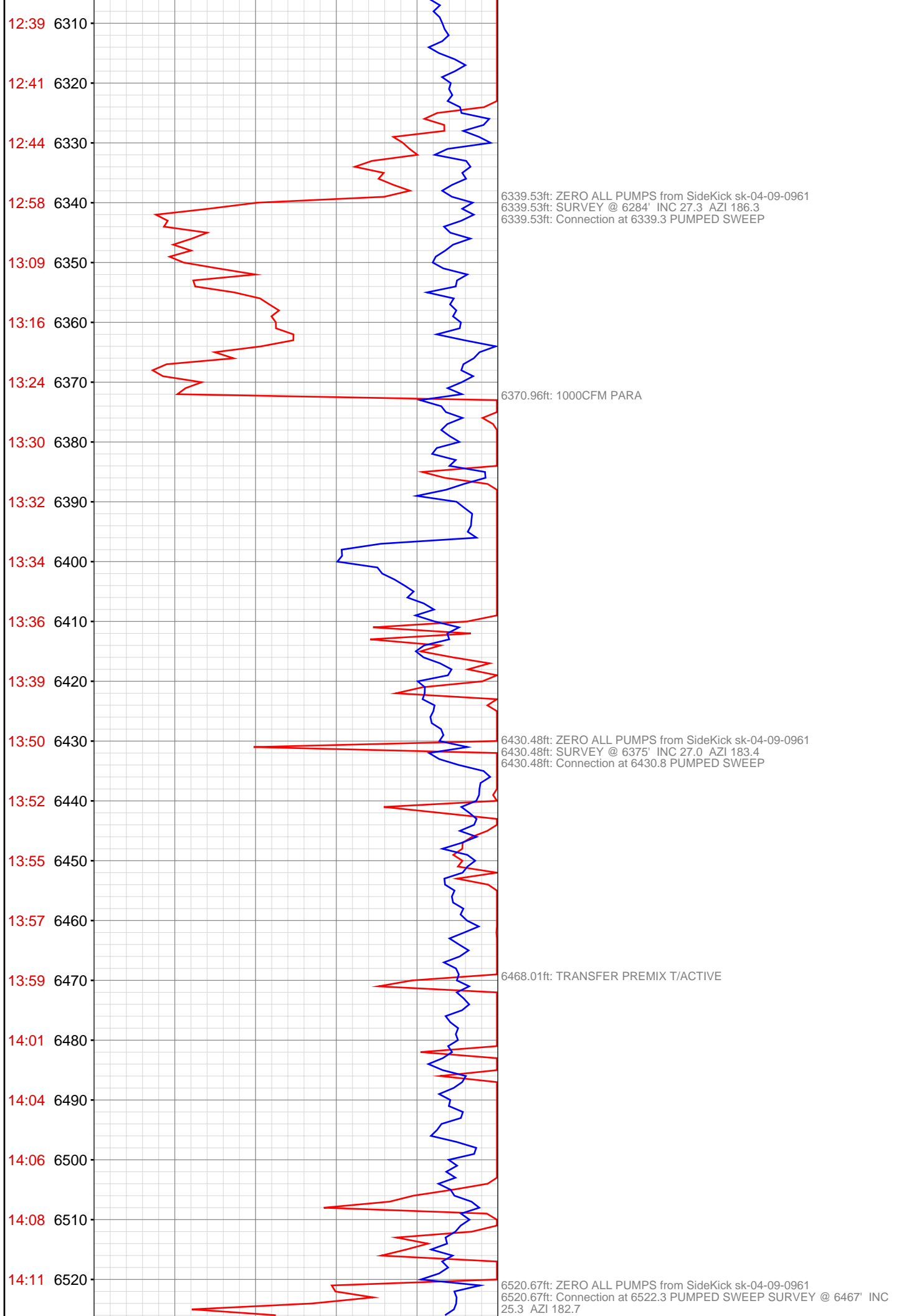


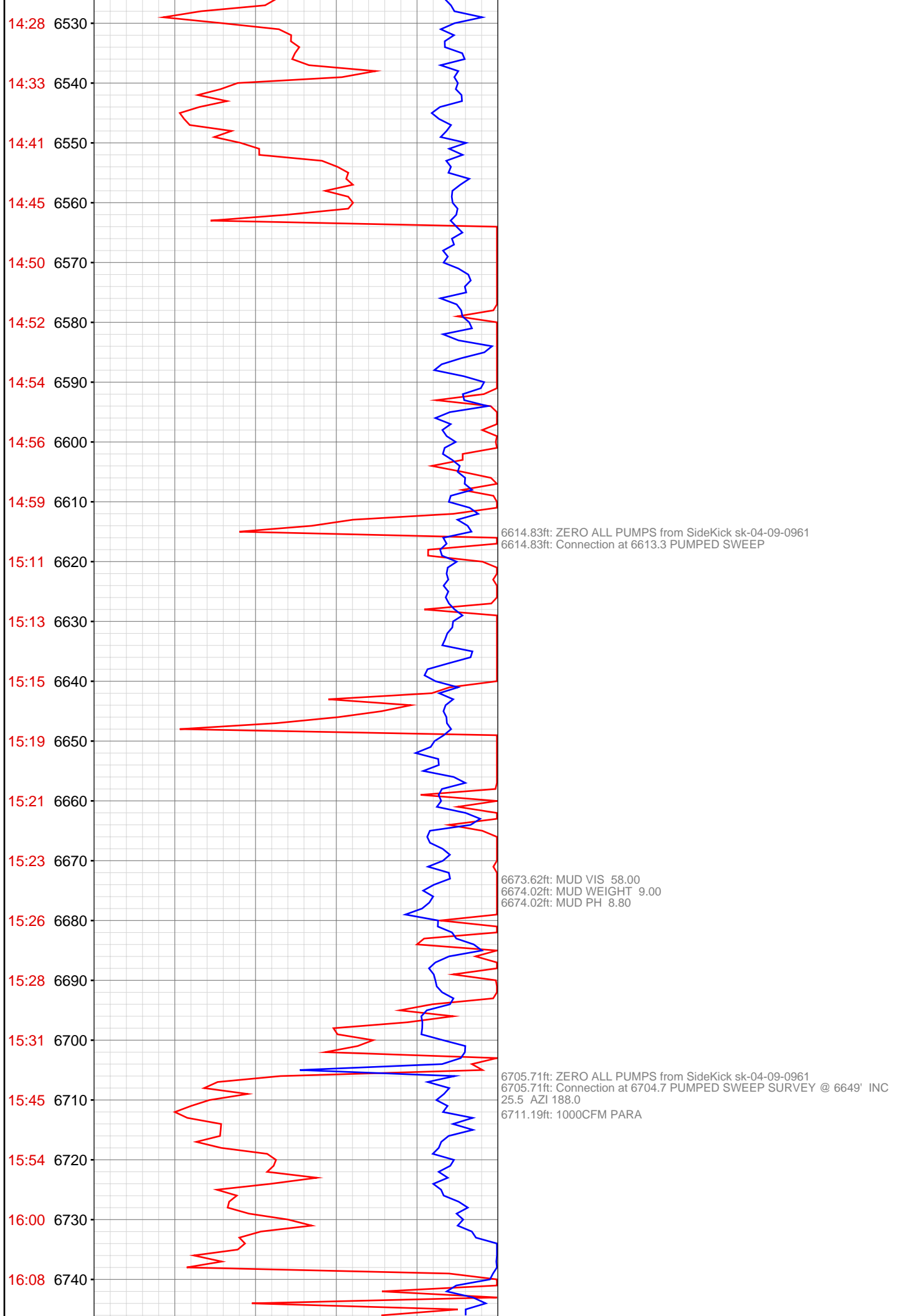


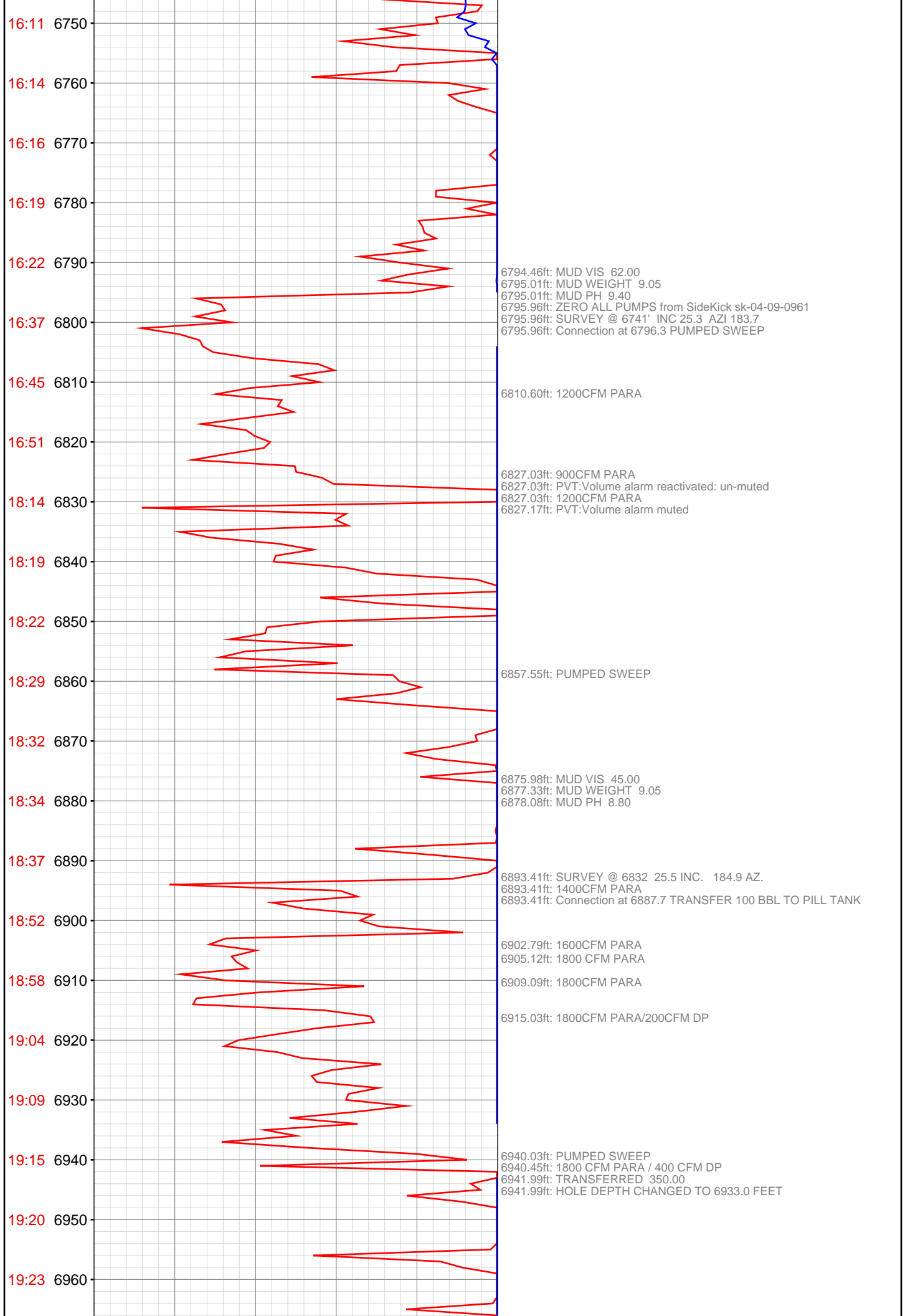


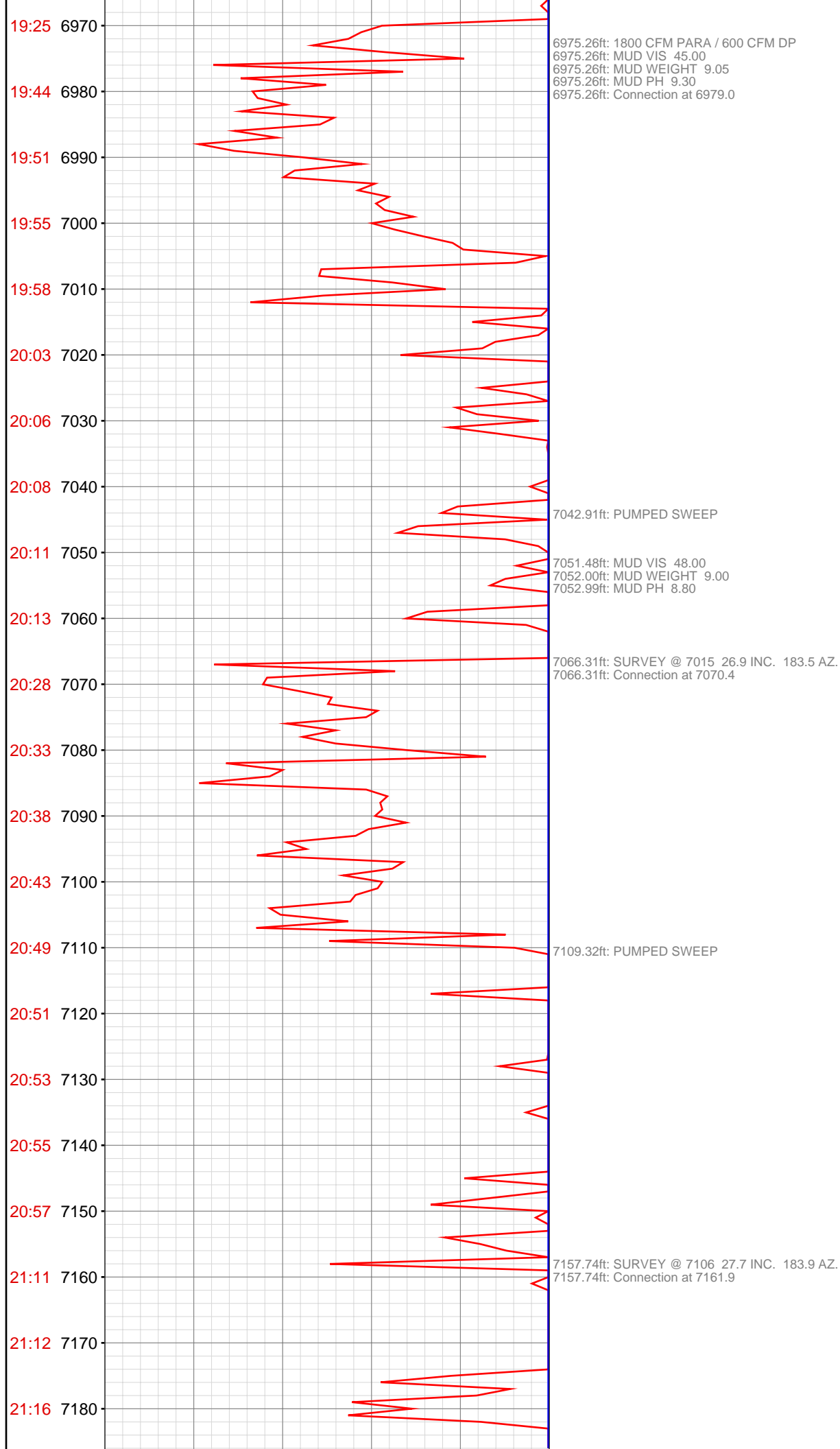


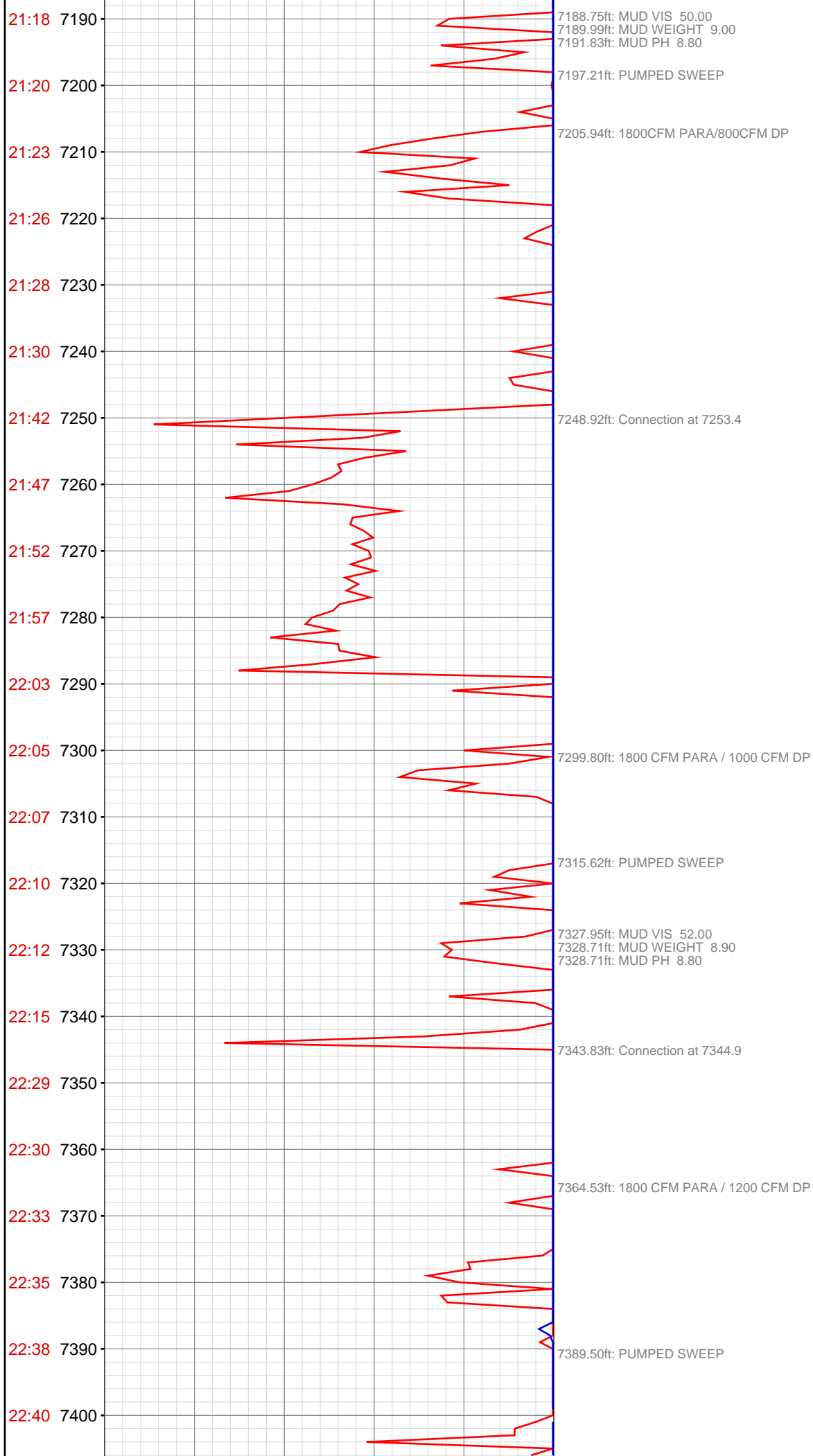




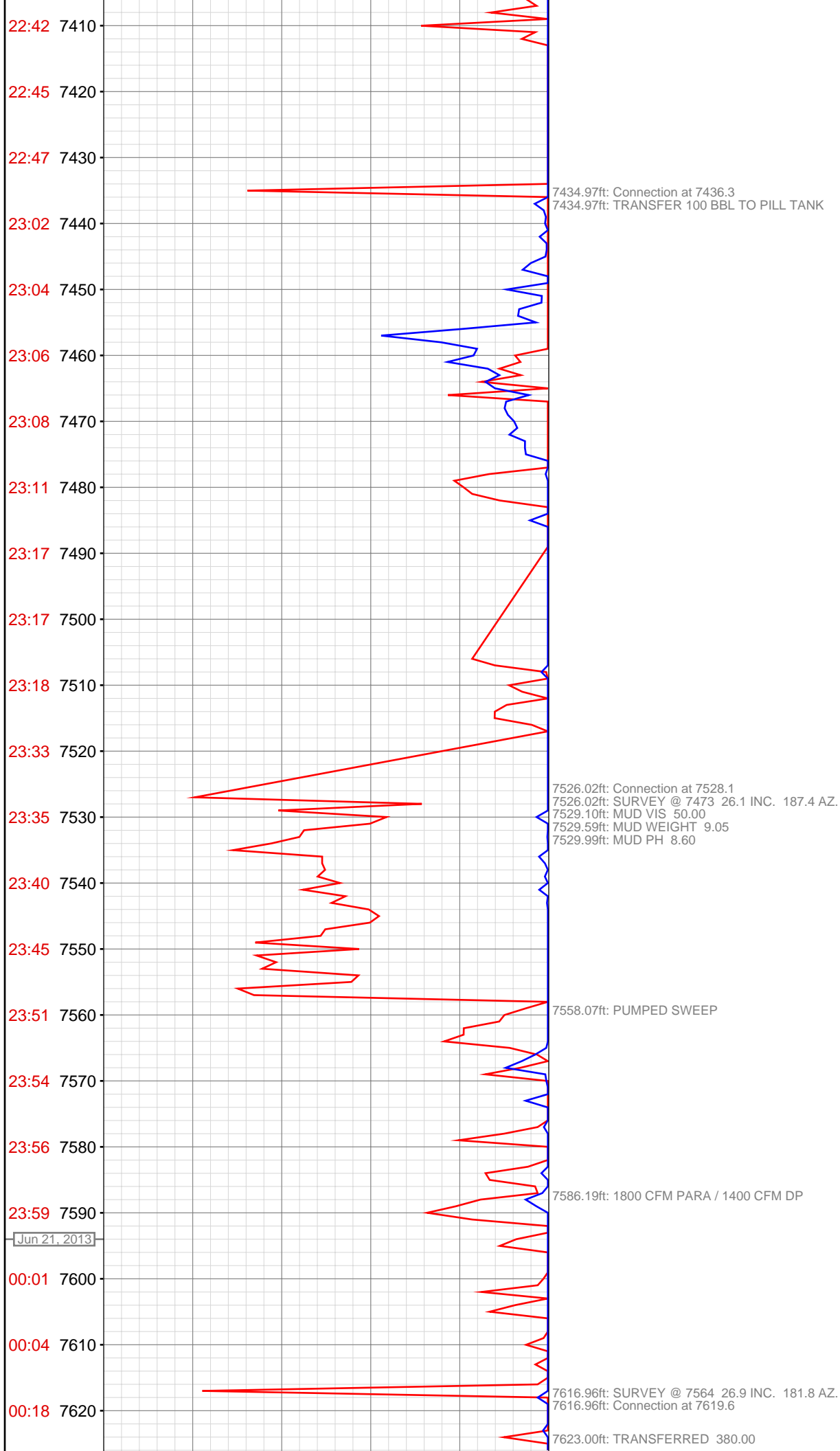


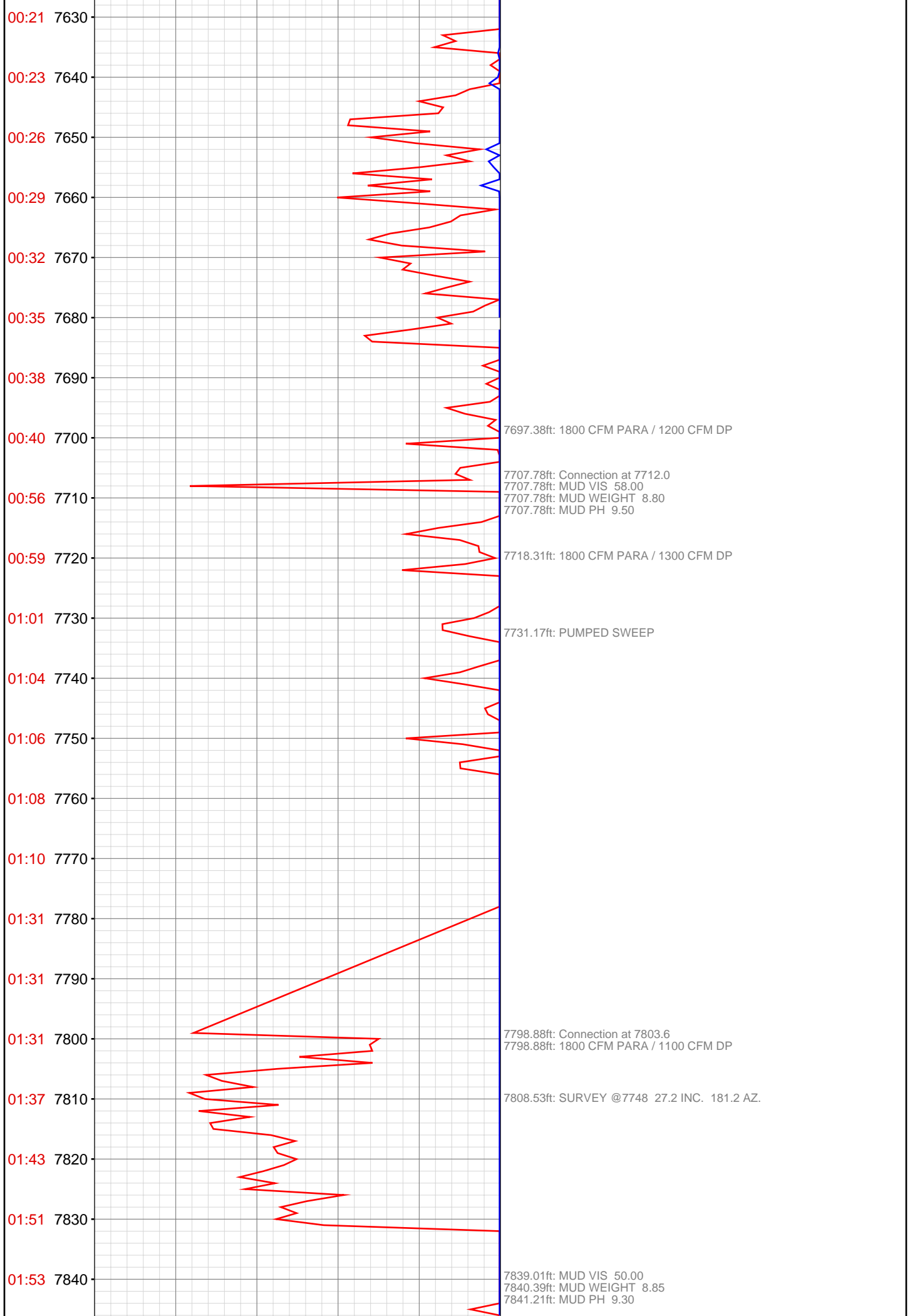


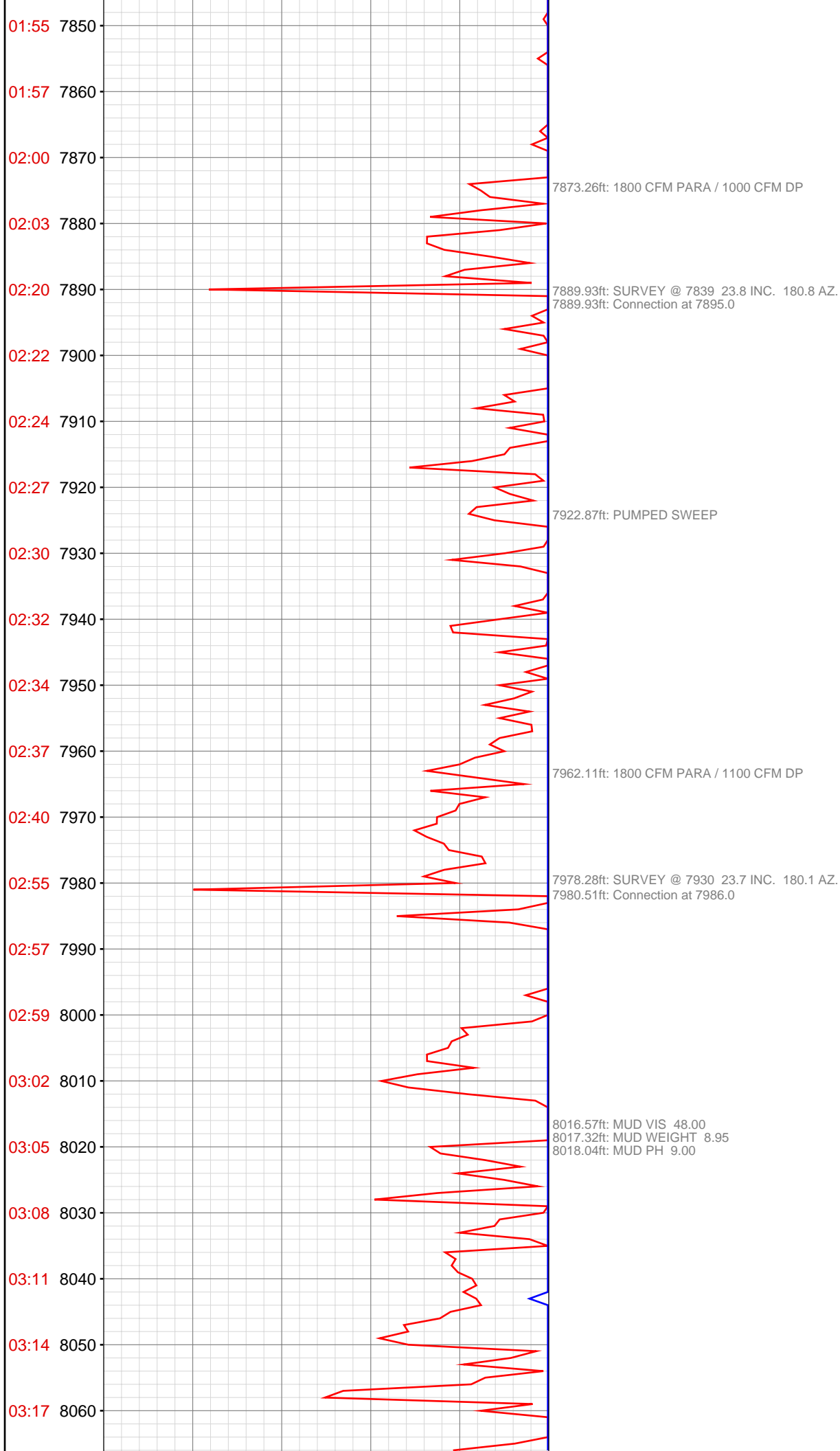


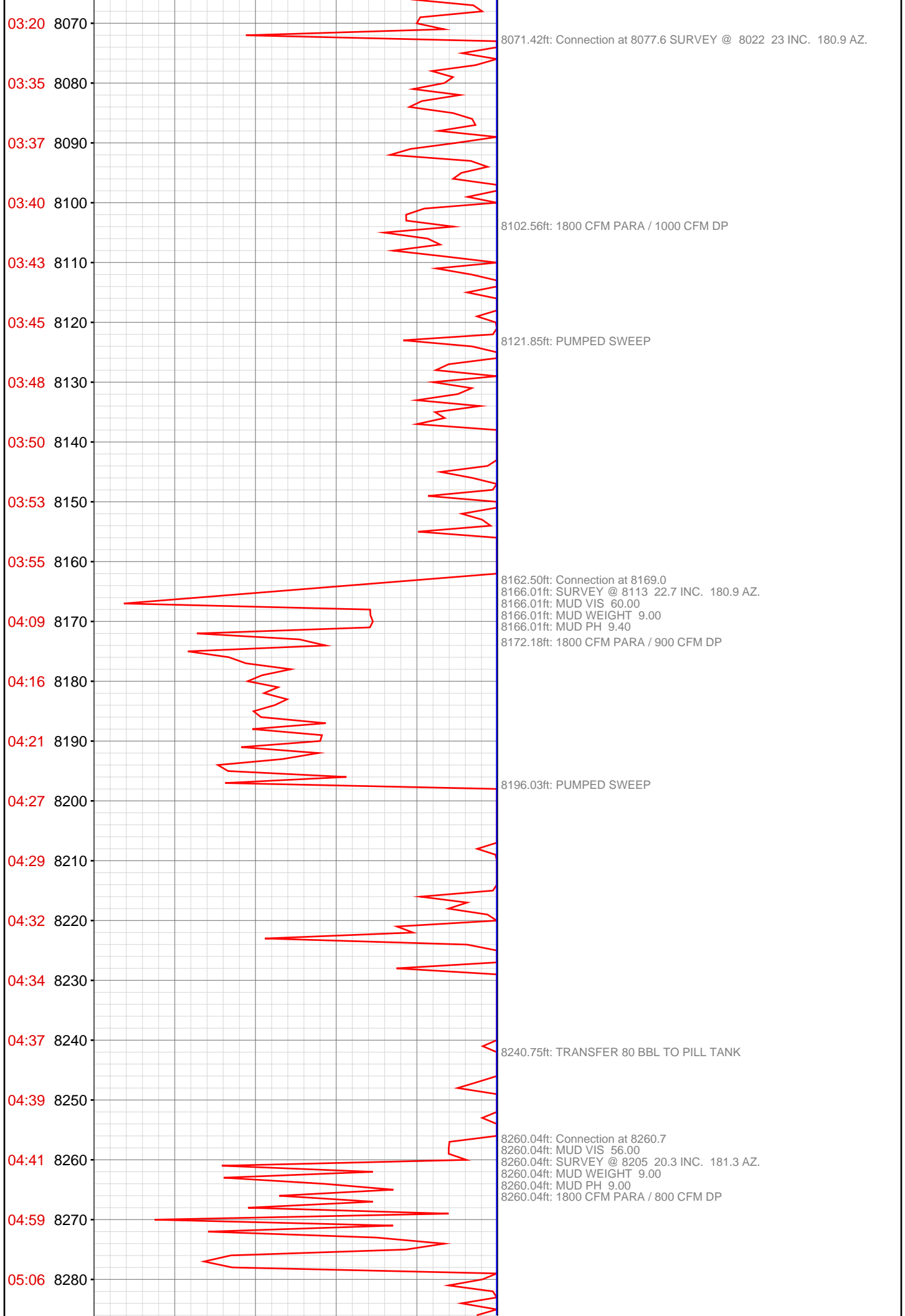


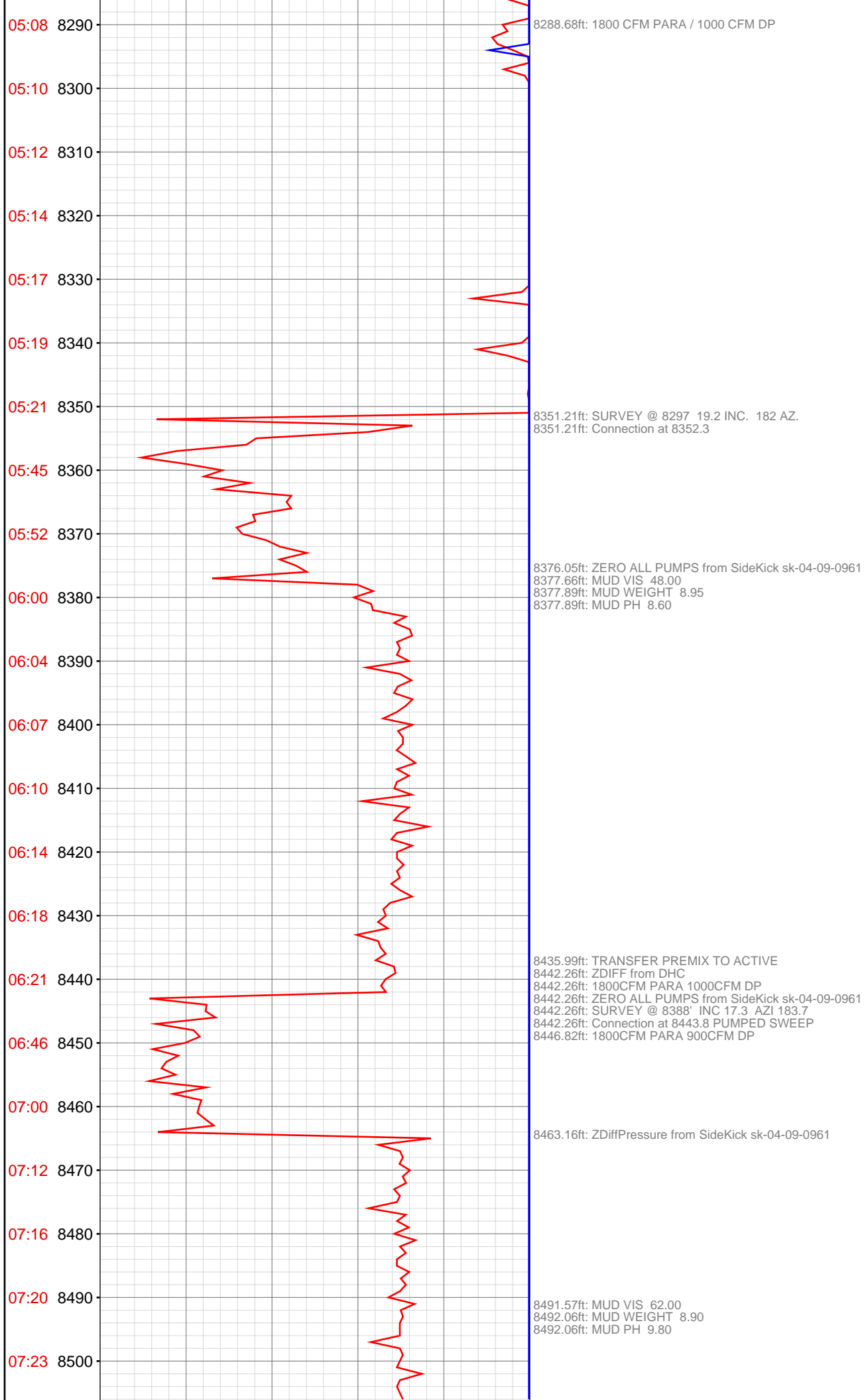












07:26 8510  
07:30 8520  
07:34 8530  
07:58 8540  
08:14 8550  
08:27 8560  
08:31 8570  
08:34 8580  
08:38 8590  
08:41 8600  
08:44 8610  
08:48 8620  
09:09 8630  
09:26 8640  
09:38 8650  
09:58 8660  
10:01 8670  
10:05 8680  
10:09 8690  
10:13 8700  
10:17 8710  
10:35 8720

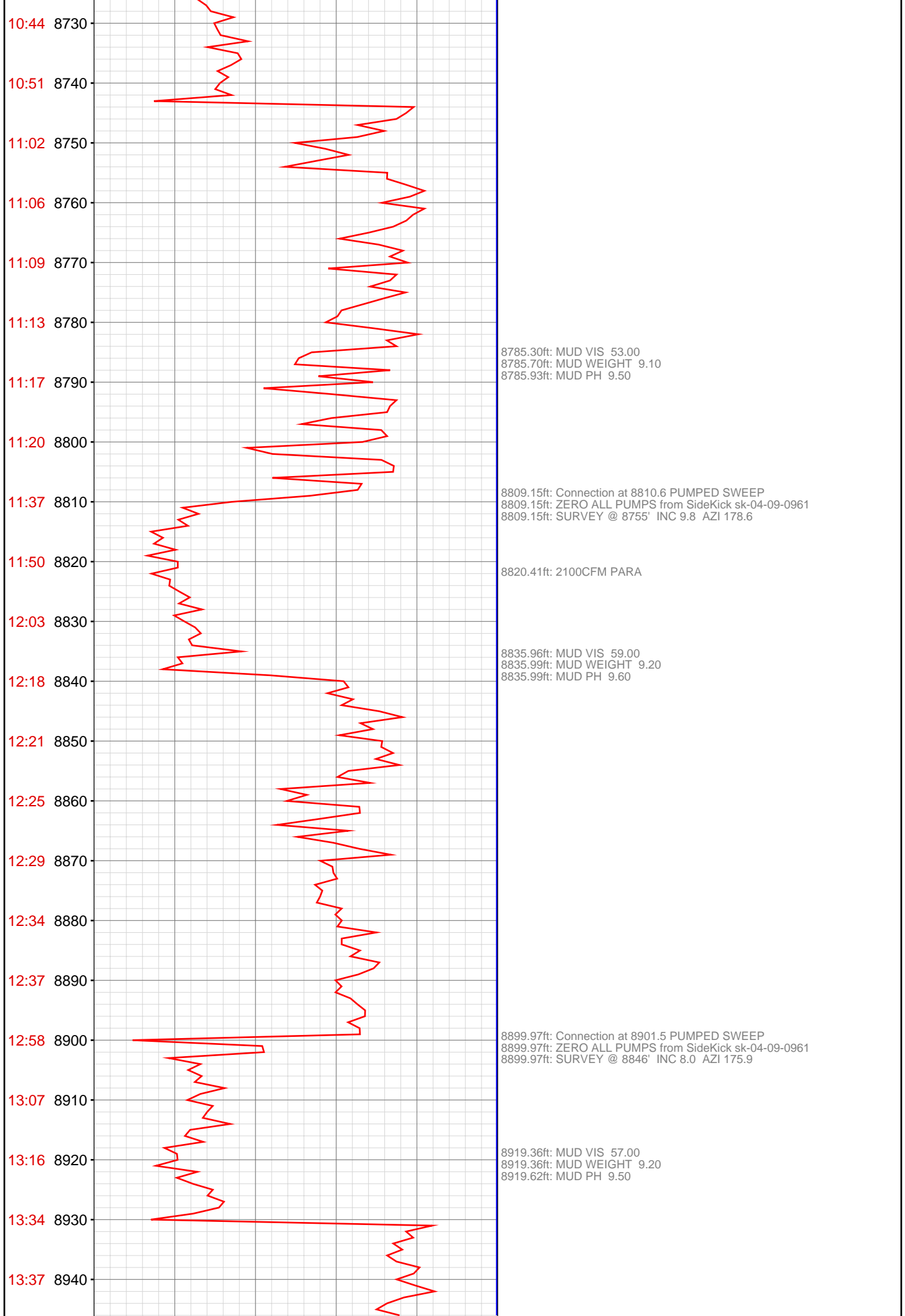
8535.50ft: ZERO ALL PUMPS from SideKick sk-04-09-0961  
8535.50ft: 1800CFM PARA 700CFM DP  
8535.50ft: SURVEY @ 8480' INC 15.1 AZI 189.4  
8535.50ft: Connection at 8535.4 PUMPED SWEEP

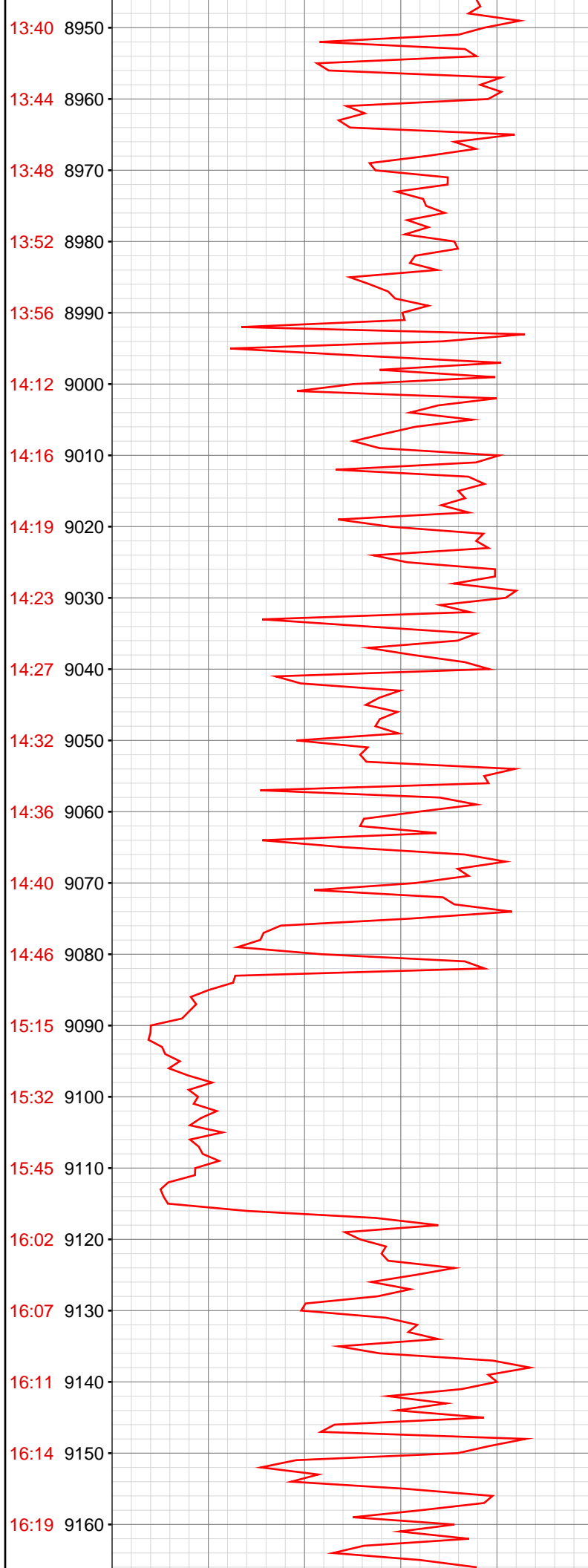
8608.76ft: MUD VIS 54.00  
8608.99ft: MUD WEIGHT 8.95  
8609.25ft: MUD PH 9.40

8627.03ft: 1800CFM PARA 500CFM DP  
8627.03ft: Connection at 8627.1 PUMPED SWEEP  
8627.03ft: ZERO ALL PUMPS from SideKick sk-04-09-0961  
8627.03ft: SURVEY @ 8572' INC 14.0 AZI 188.6

8656.63ft: MUD VIS 57.00  
8656.63ft: MUD WEIGHT 9.00  
8656.96ft: MUD PH 9.20

8717.98ft: ZERO ALL PUMPS from SideKick sk-04-09-0961  
8717.98ft: Connection at 8718.8  
8717.98ft: PUMPED SWEEP  
8717.98ft: 2100CFM PARA SURVEY @ 8663' INC 12.0 AZI 190.3





8991.27ft: Connection at 8993.0 PUMPED SWEEP  
8991.27ft: ZERO ALL PUMPS from SideKick sk-04-09-0961  
8991.27ft: SURVEY @ 8937' INC 5.7 AZI 177.7  
8991.27ft: FILL PILL TANK  
8994.85ft: 2100 CFM PARA

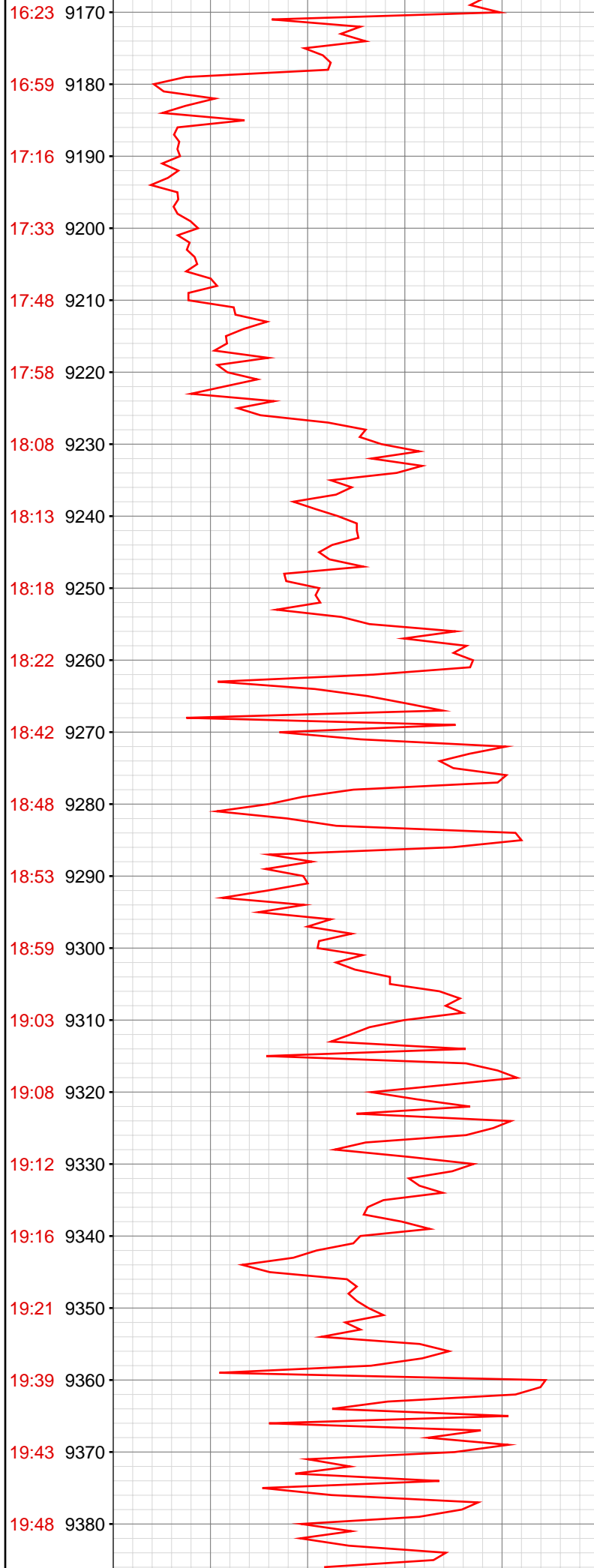
9065.58ft: MUD VIS 52.00  
9065.58ft: MUD WEIGHT 9.25  
9066.01ft: MUD PH 9.20

9082.22ft: Connection at 9084.5 PUMPED SWEEP  
9082.22ft: ZERO ALL PUMPS from SideKick sk-04-09-0961  
9082.22ft: SURVEY @ 9029' INC 5.4 AZI 176.7

9114.63ft: MUD VIS 63.00  
9114.63ft: MUD WEIGHT 9.35  
9114.63ft: MUD PH 9.10

9129.66ft: 2100 CFM PARA





9171.42ft: RIG SERVICE  
9173.66ft: ZERO ALL PUMPS from SideKick sk-04-09-0961  
9173.66ft: SURVEY @ 9121' INC 3.3 AZI 186.0  
9173.66ft: Connection at 9176.0 PUMPED SWEEP

9183.01ft: MUD VIS 54.00  
9183.27ft: MUD WEIGHT 9.40  
9183.27ft: MUD PH 9.10

9220.31ft: MUD VIS 60.00  
9220.77ft: MUD WEIGHT 9.40  
9221.06ft: MUD PH 9.00  
9222.54ft: PUMPED SWEEP

9238.22ft: 2100 CFM PARA

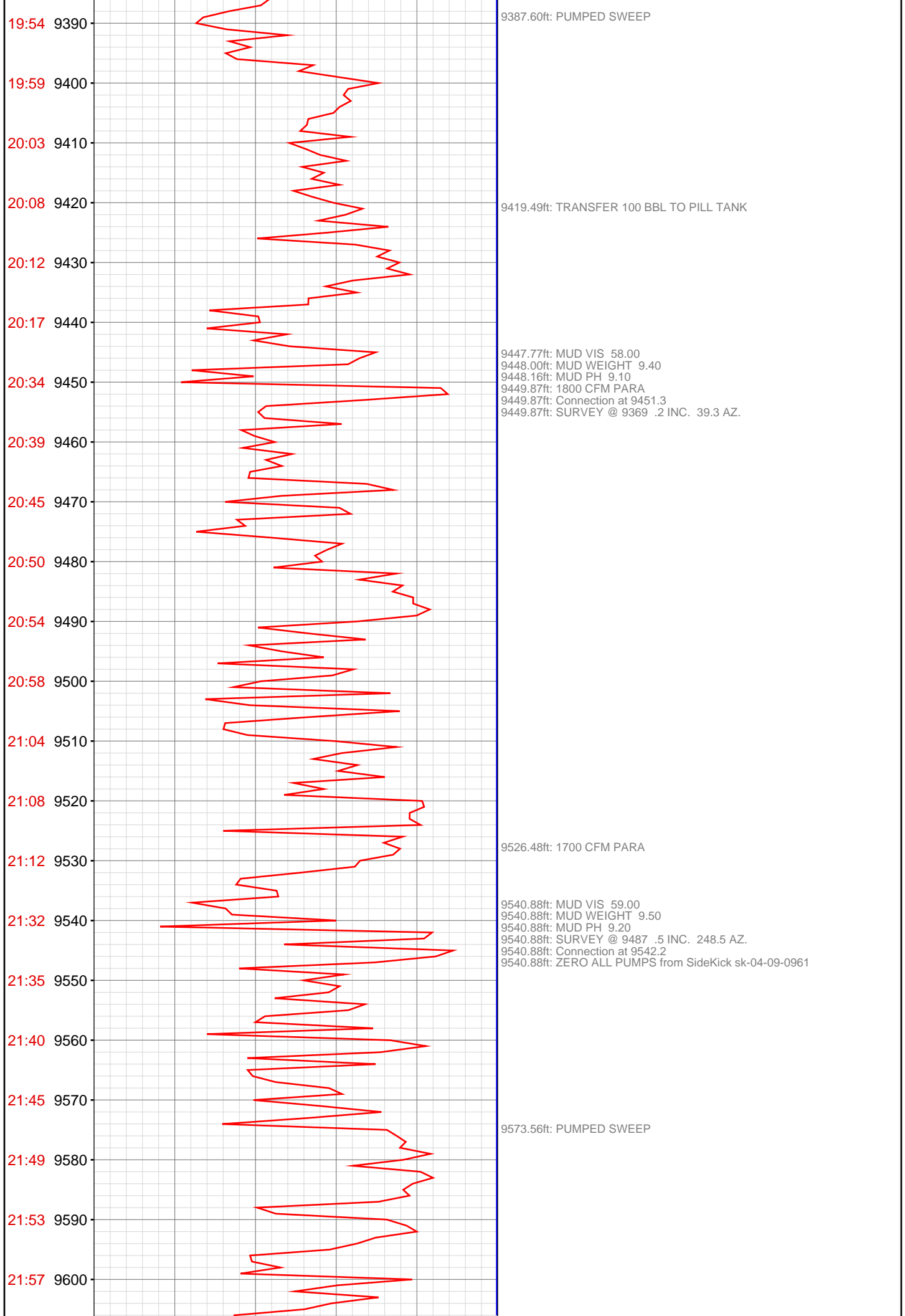
9267.59ft: Connection at 9267.8  
9267.59ft: SURVEY @ 9212 1 INC. 204.3 AZ.

9286.91ft: MUD VIS 52.00  
9287.27ft: MUD WEIGHT 9.40  
9287.53ft: MUD PH 8.90

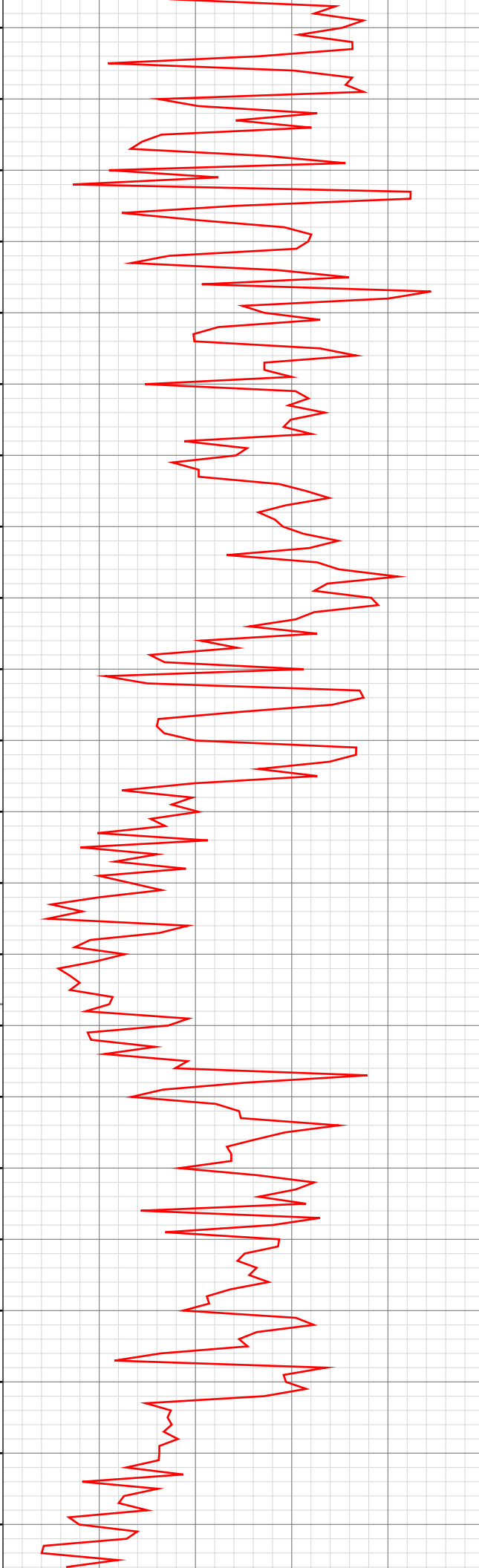
9300.49ft: PUMPED SWEEP

9325.33ft: 1900 CFM PARA

9358.33ft: SURVEY @ 9304 .6 INC. 50.9 AZ.  
9358.33ft: Connection at 9359.3



22:01 9610  
22:09 9620  
22:16 9630  
22:35 9640  
22:40 9650  
22:44 9660  
22:49 9670  
22:54 9680  
22:57 9690  
23:02 9700  
23:08 9710  
23:14 9720  
23:37 9730  
23:51 9740  
Jun 22, 2013  
00:03 9750  
00:13 9760  
00:18 9770  
00:24 9780  
00:29 9790  
00:33 9800  
00:40 9810  
01:07 9820



9614.70ft: 1600 CFM PARA

9631.99ft: SURVEY @ 9578 .8 INC. 239.1 AZ.  
9631.99ft: Connection at 9633.2  
9631.99ft: PUMPED SWEEP

9681.43ft: MUD VIS 61.00  
9682.42ft: MUD WEIGHT 9.60  
9682.91ft: MUD PH 9.20

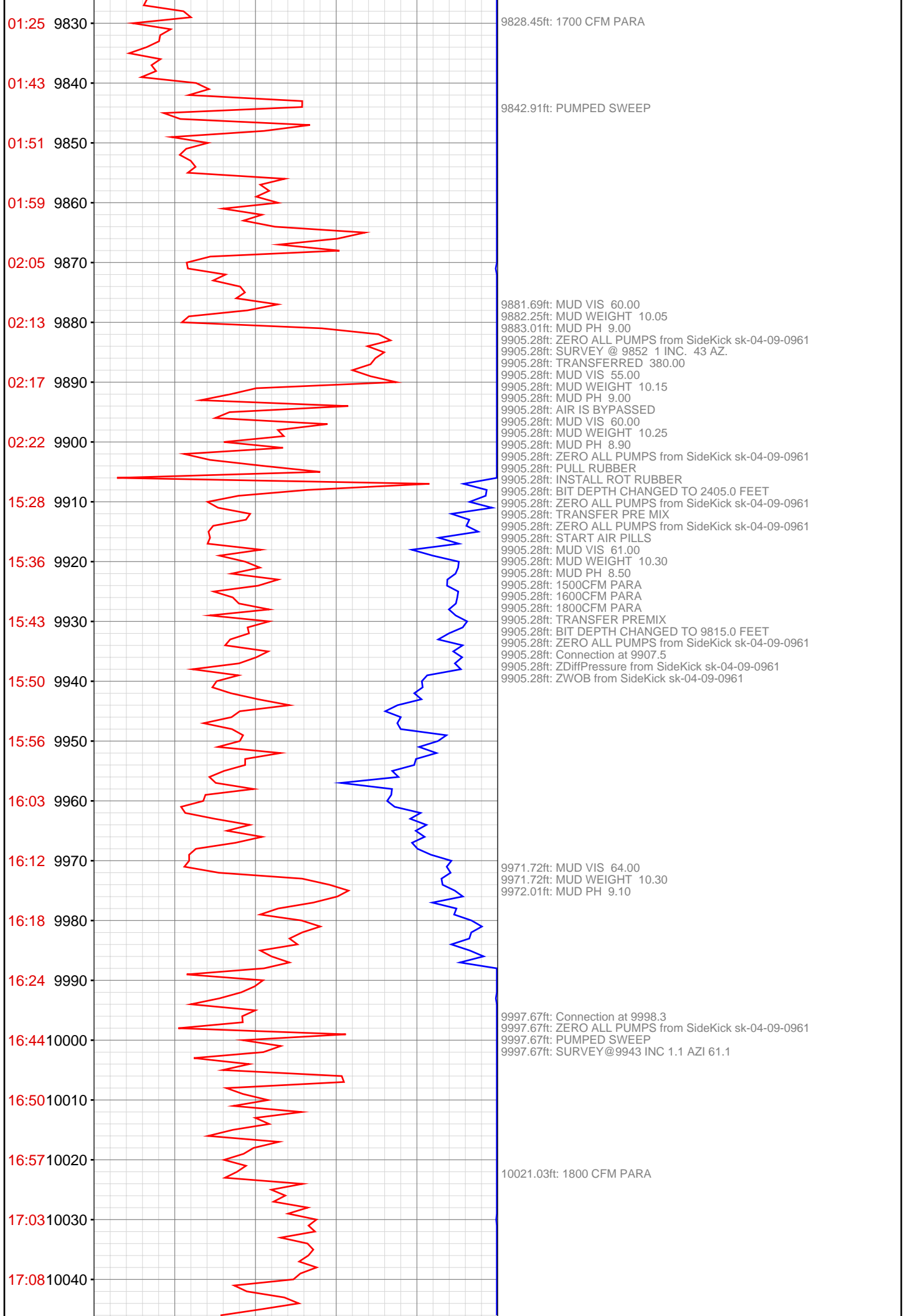
9722.87ft: Connection at 9724.5  
9722.87ft: SURVEY @ 9669 1.2 INC. 235.1 AZ.

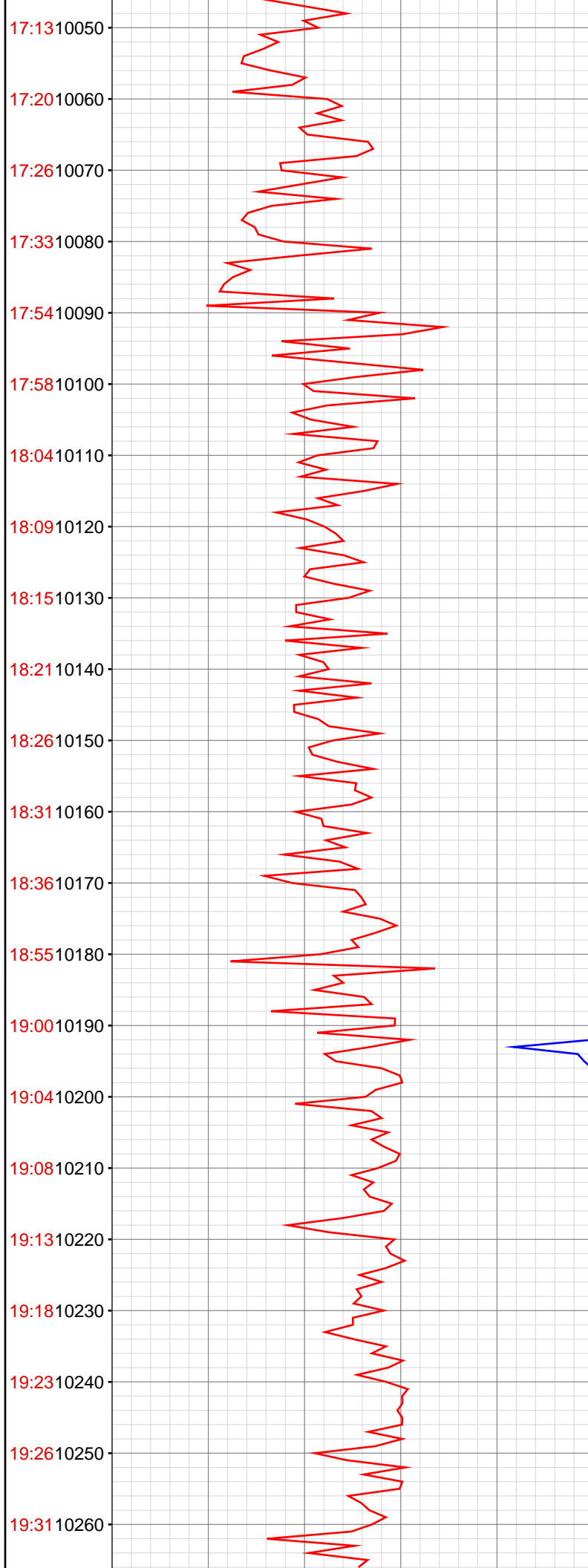
9742.19ft: MUD VIS 60.00  
9742.19ft: MUD WEIGHT 9.70  
9742.32ft: MUD PH 9.10

9755.32ft: PUMPED SWEEP

9805.28ft: 1500 CFM PARA

9813.88ft: 1600 CFM PARA Connection at 9816.0  
9813.88ft: MUD VIS 56.00  
9813.88ft: MUD WEIGHT 9.85  
9813.88ft: MUD PH 8.90  
9818.08ft: SURVEY @ 9760 .6 INC. 223.7 AZ.



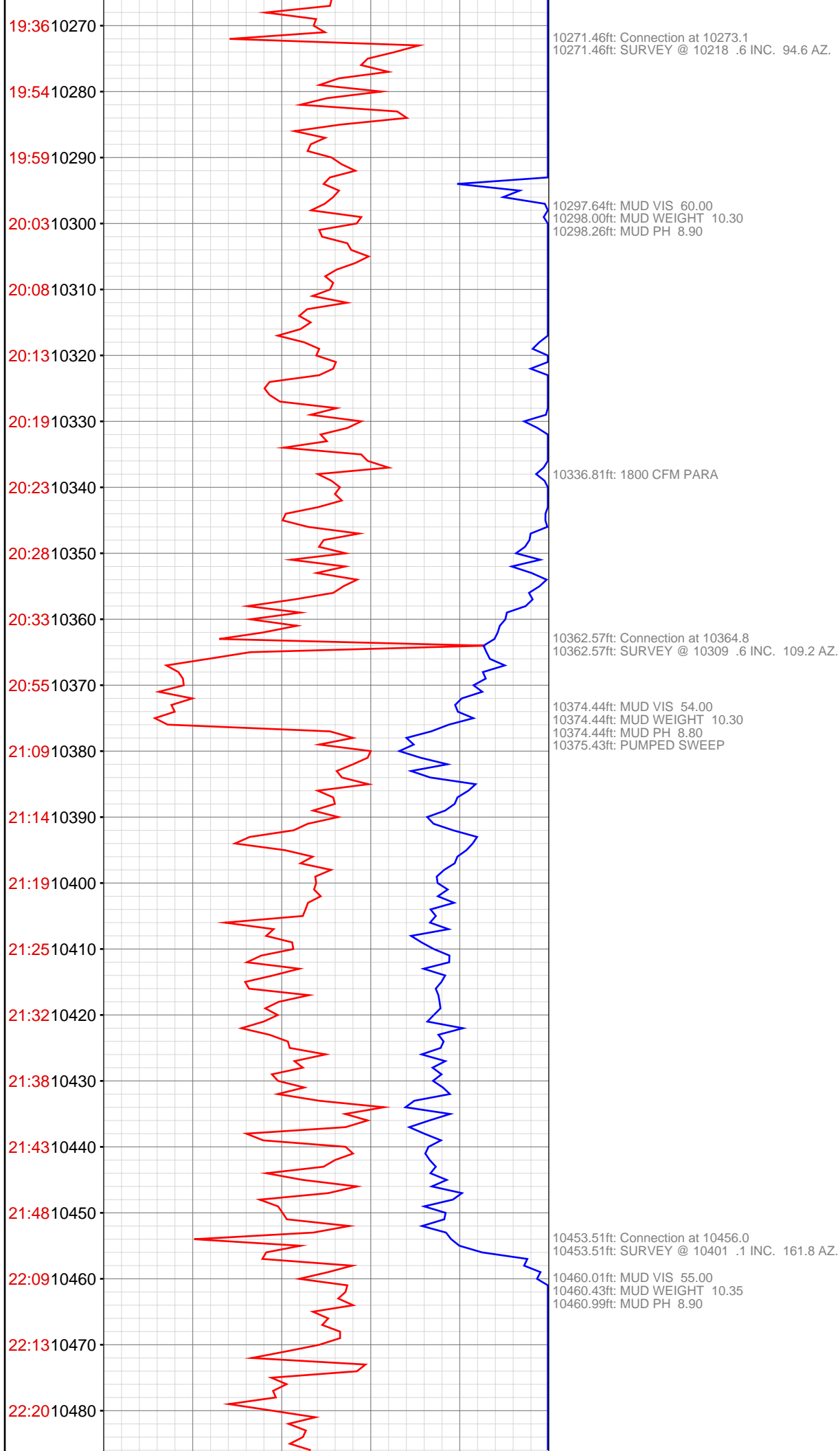


10088.98ft: Connection at 10089.8  
10088.98ft: ZERO ALL PUMPS from SideKick sk-04-09-0961  
10088.98ft: PUMPED SWEEP  
10088.98ft: SURVEY @ 10034 .7 INC. 69.9 AZ.

10106.99ft: MUD VIS 63.00  
10107.38ft: MUD WEIGHT 10.30  
10107.38ft: MUD PH 9.00

10180.02ft: Connection at 10181.4  
10180.02ft: SURVEY @ 10126 INC. .7 INC. 82.1 AZ.

10220.54ft: 1800 CFM PARA



22:26 10490

22:30 10500

22:34 10510

22:40 10520

22:46 10530

22:52 10540

23:11 10550

23:17 10560

23:23 10570

23:28 10580

23:33 10590

23:38 10600

23:43 10610

23:49 10620

23:55 10630

00:12 10640

00:16 10650

00:21 10660

00:26 10670

00:31 10680

00:37 10690

00:43 10700

10489.08ft: 1800 CFM PARA

10544.32ft: Connection at 10547.7  
10544.32ft: SURVEY @ 10492 .2 INC. 245.2 AZ.  
10544.32ft: MUD VIS 56.00  
10544.32ft: MUD WEIGHT 10.35  
10544.32ft: MUD PH 8.70

10566.44ft: 1600 CFM PARA

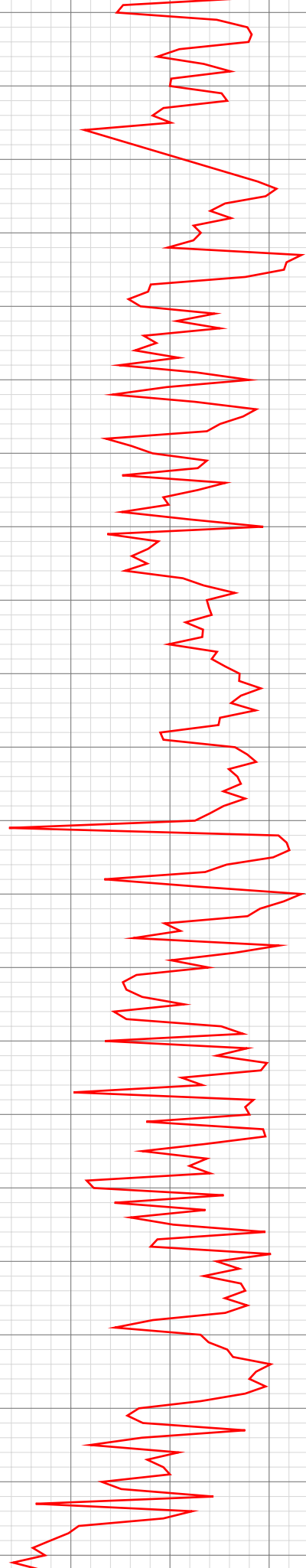
10635.14ft: Connection at 10639.0  
10635.14ft: MUD VIS 56.00  
10635.14ft: MUD WEIGHT 10.35  
10635.14ft: MUD PH 9.10  
10635.14ft: SURVEY @ 10583 .4 INC. 201.5 AZ.  
10638.35ft: PUMPED SWEEP

10681.96ft: 1400 CFM PARA

10698.26ft: 1300 CFM PARA

Jun 23, 2013

00:48 10710  
00:53 10720  
01:15 10730  
01:19 10740  
01:24 10750  
01:30 10760  
01:36 10770  
01:43 10780  
01:49 10790  
01:54 10800  
01:58 10810  
02:03 10820  
02:23 10830  
02:29 10840  
02:35 10850  
02:40 10860  
02:46 10870  
02:52 10880  
02:58 10890  
03:02 10900  
03:09 10910  
03:32 10920



10725.95ft: Connection at 10730.4 SURVEY @ 10675 .4 INC. 190.6 AZ.  
10725.95ft: MUD VIS 10.35  
10725.95ft: MUD WEIGHT 10.35  
10725.95ft: MUD VIS 55.00  
10725.95ft: MUD PH 8.90

10804.36ft: 1200 CFM PARA

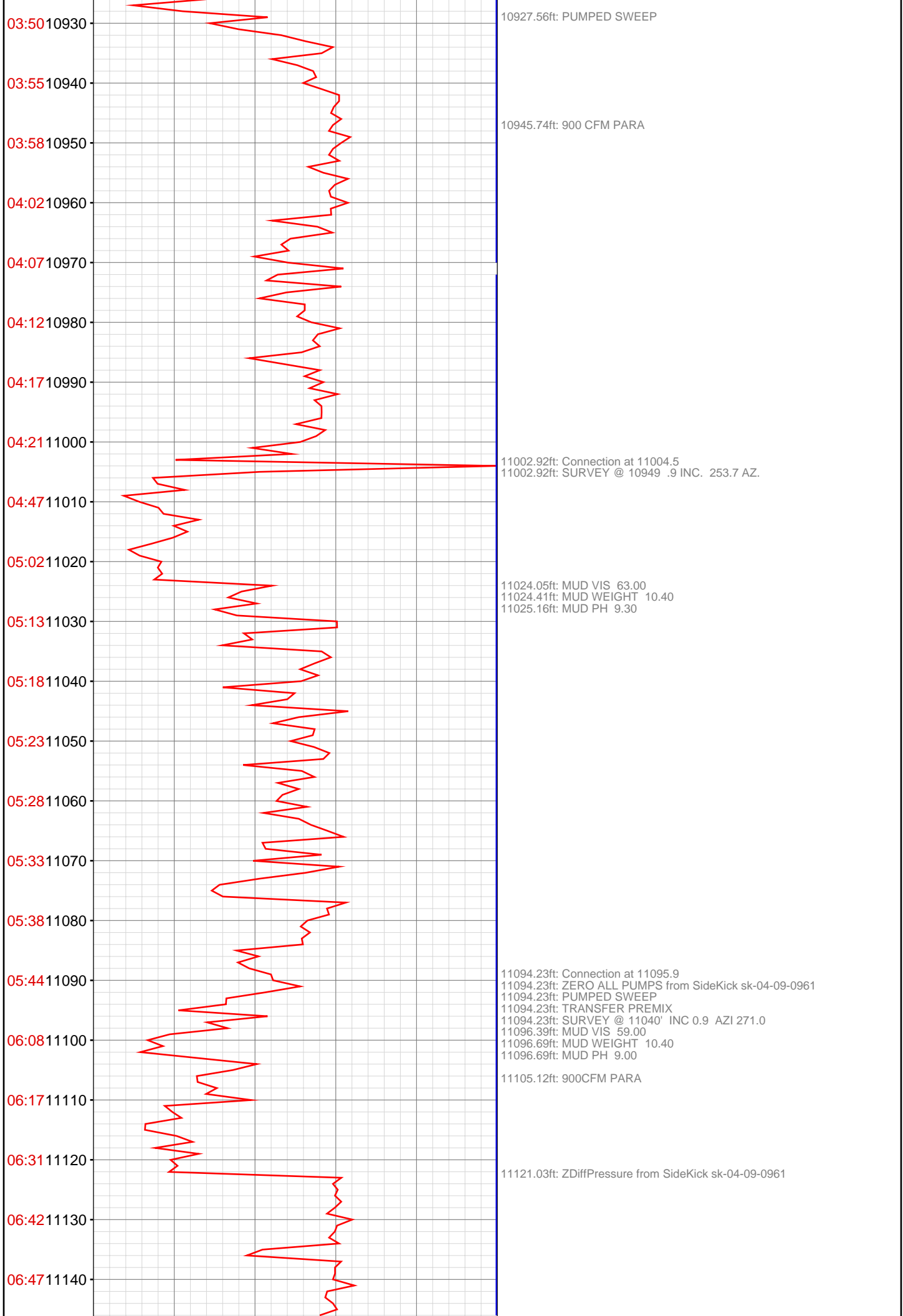
10820.93ft: 1100 CFM PARA  
10820.93ft: SURVEY @ 10766 .7 INC. 215.4 AZ.  
10820.93ft: Connection at 10822.0  
10820.93ft: MUD VIS 58.00  
10820.93ft: MUD WEIGHT 10.35  
10820.93ft: MUD PH 9.20

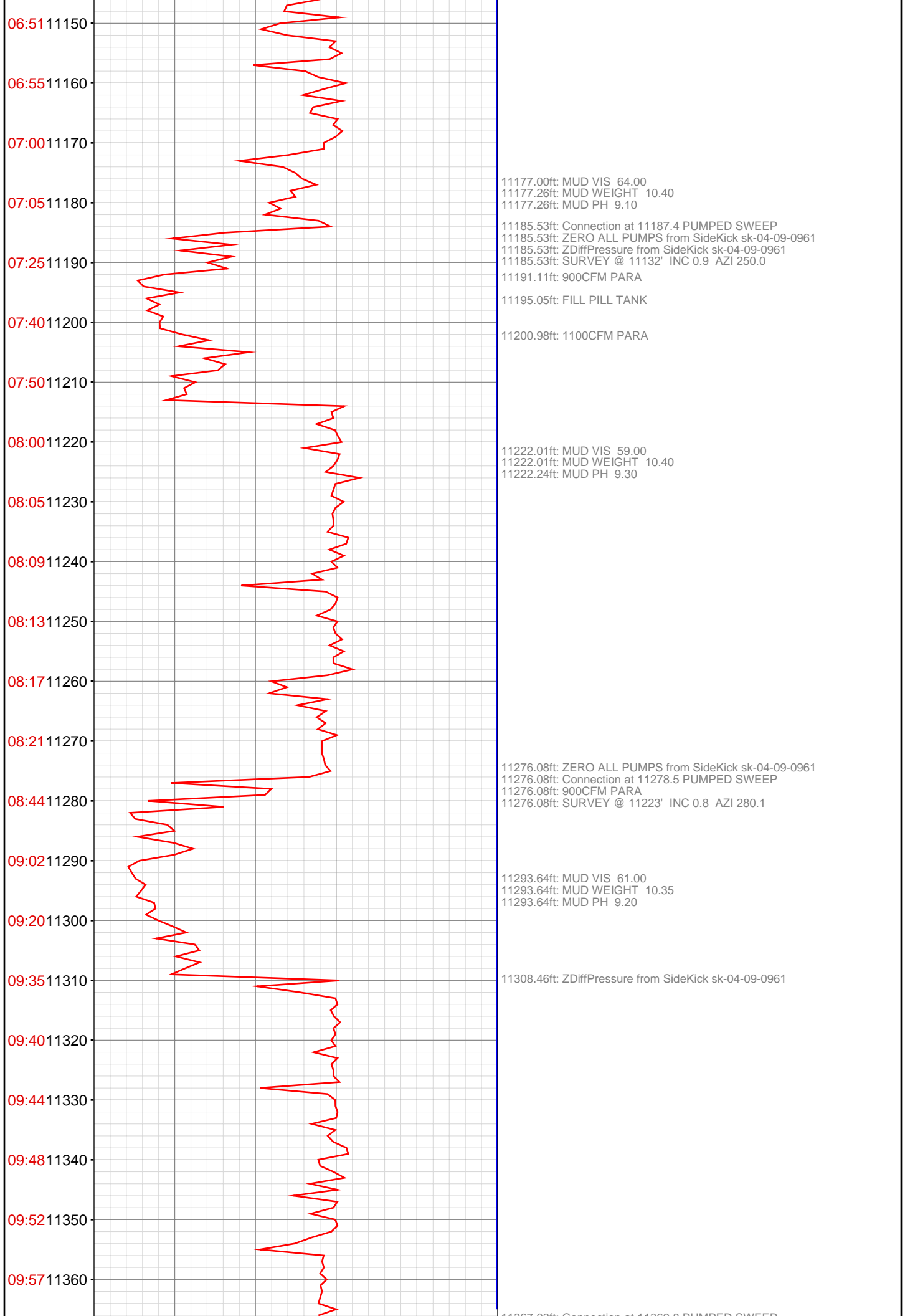
10854.04ft: 1000 CFM PARA

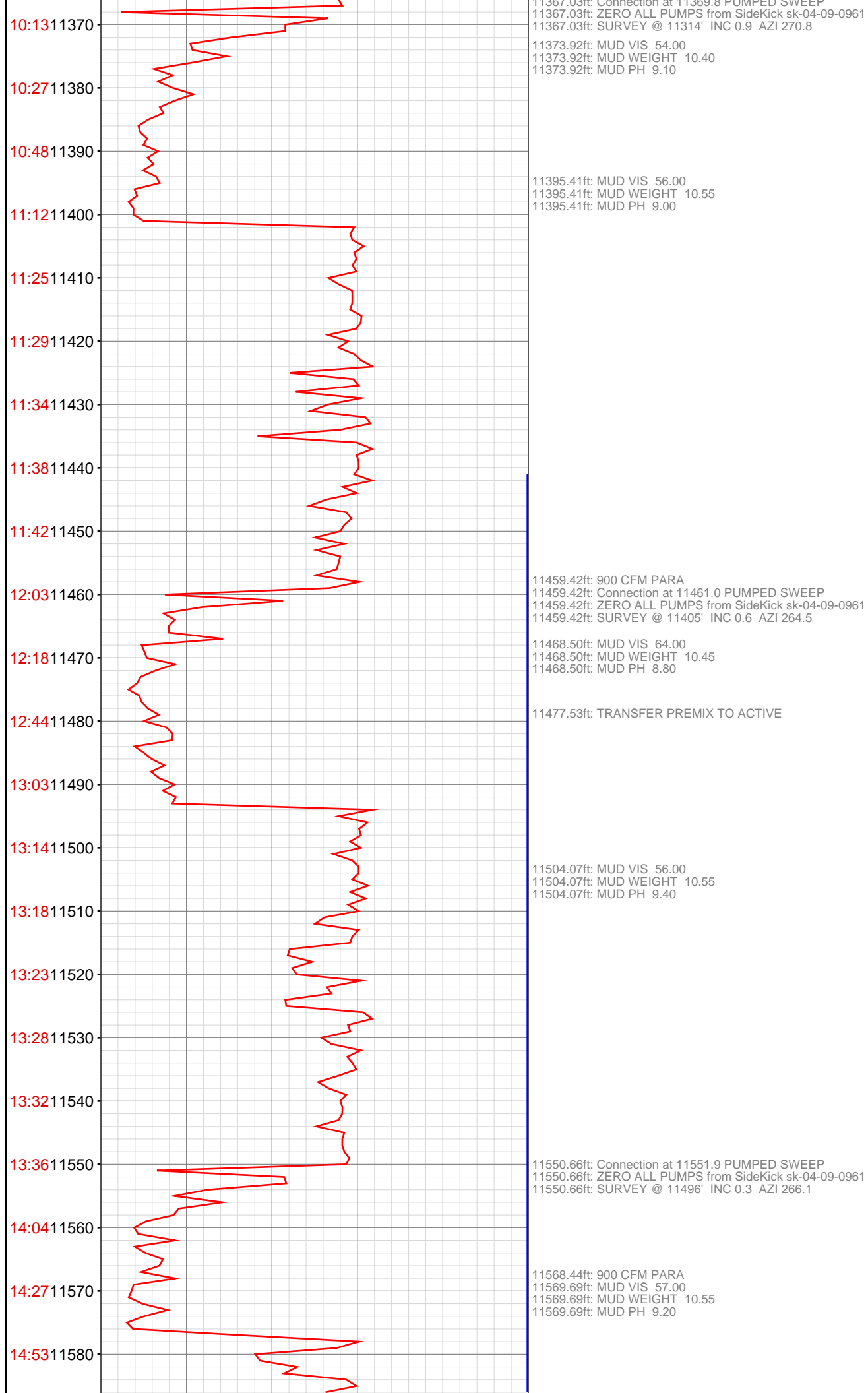
10912.24ft: Connection at 10913.5 SURVEY @ 10858 .7 INC. 232.1 AZ.

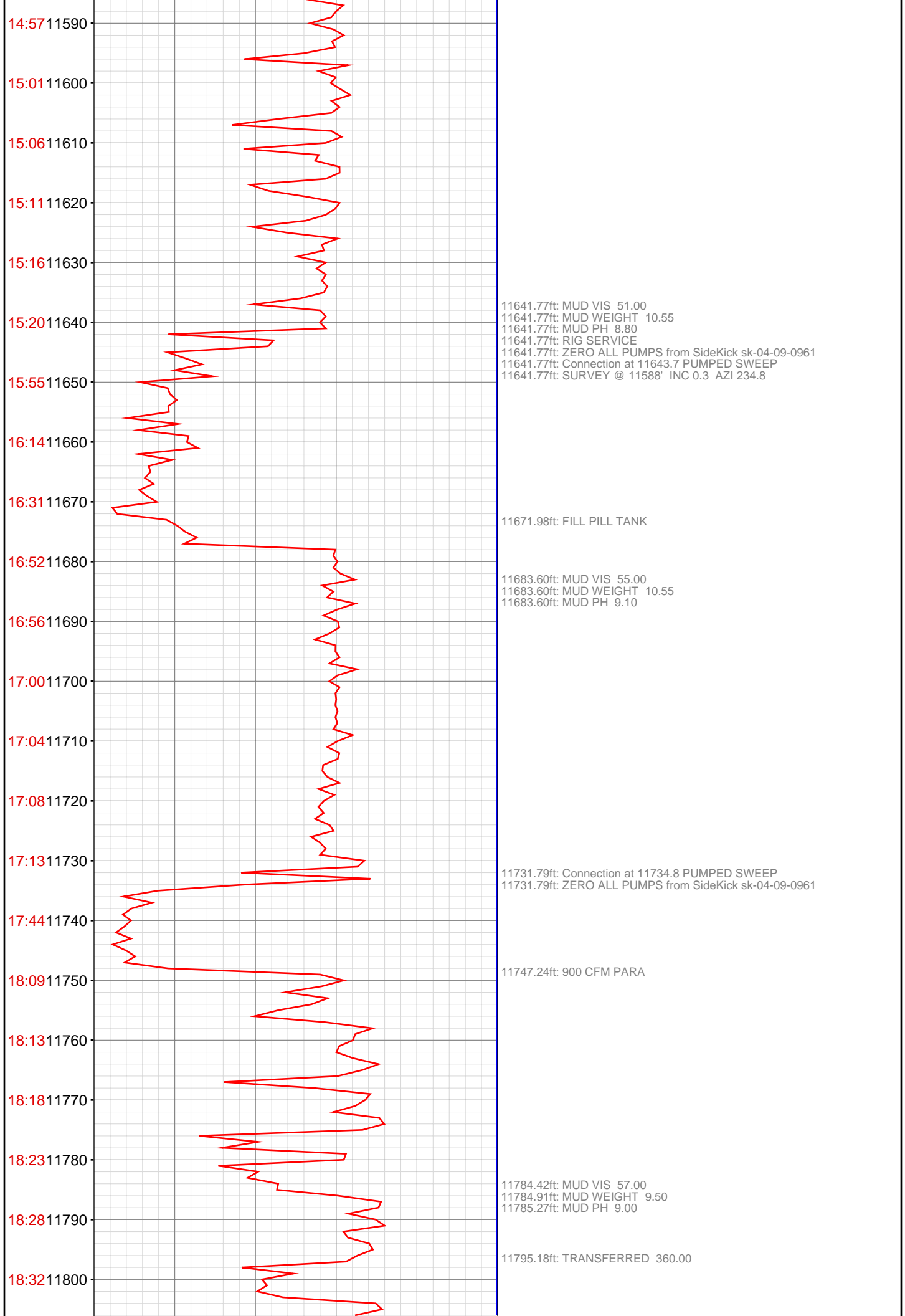
10921.13ft: MUD VIS 63.00  
10921.39ft: MUD WEIGHT 10.35  
10921.39ft: MUD PH 9.30











18:37 11810  
18:42 11820  
19:38 11830  
19:43 11840  
19:47 11850  
19:52 11860  
19:57 11870  
20:01 11880  
20:06 11890  
20:13 11900  
20:14 11910  
20:33 11920  
20:36 11930  
20:40 11940  
20:43 11950  
20:47 11960  
20:52 11970  
20:59 11980  
21:03 11990  
21:07 12000  
21:30 12010  
21:33 12020



11823.33ft: Connection at 11826.4  
11823.33ft: MUD VIS 49.00  
11823.33ft: MUD WEIGHT 10.50  
11823.33ft: MUD PH 8.90  
11823.33ft: SURVEY @ 11771 .5 INC. 255.6 AZ.

11913.03ft: 900 CFM PARA  
11914.04ft: MUD VIS 54.00  
11914.04ft: MUD WEIGHT 10.50  
11914.04ft: MUD PH 8.80  
11914.04ft: Connection at 11917.4

12004.95ft: MUD VIS 55.00  
12004.95ft: MUD WEIGHT 10.50  
12004.95ft: MUD PH 9.10  
12004.95ft: Connection at 12009.0

21:40 12030

21:43 12040

21:49 12050

21:53 12060

21:58 12070

22:03 12080

22:10 12090

22:29 12100

22:33 12110

22:40 12120

22:45 12130

22:50 12140

22:57 12150

23:05 12160

23:10 12170

23:16 12180

23:36 12190

23:41 12200

23:47 12210

23:53 12220

23:58 12230

Jun 24, 2013

00:03 12240

12096.13ft: SURVEY @ 12045 1 INC. 248.9 AZ.  
12096.13ft: Connection at 12100.2  
12096.13ft: MUD VIS 54.00  
12096.13ft: MUD WEIGHT 10.50  
12096.13ft: MUD PH 8.90

12128.38ft: 900 CFM PARA

12187.21ft: SURVEY @ 12136 1.1 INC. 249.9 AZ.  
12187.21ft: Connection at 12191.6

12222.01ft: MUD VIS 58.00  
12222.18ft: MUD WEIGHT 10.50  
12222.67ft: MUD PH 8.80

