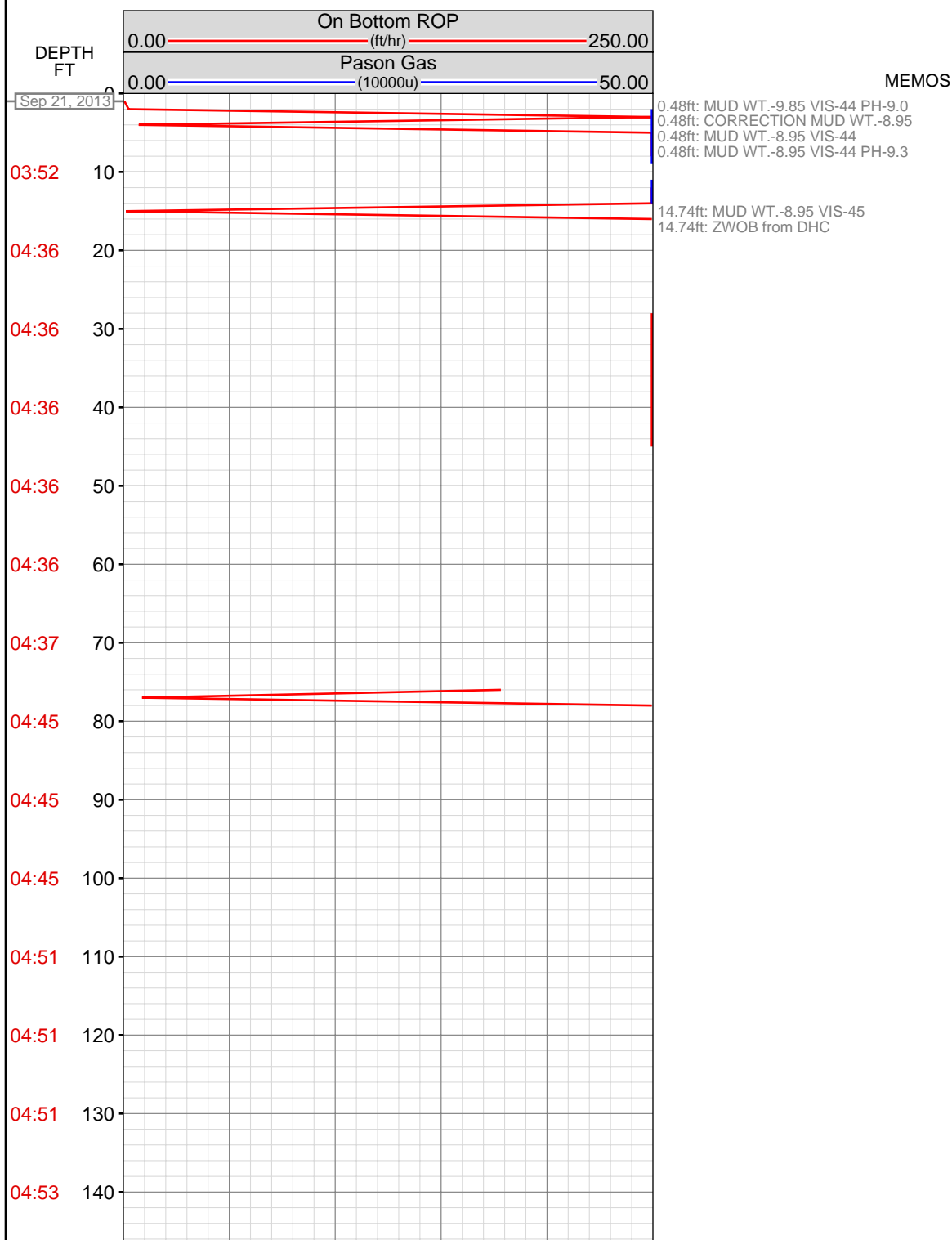


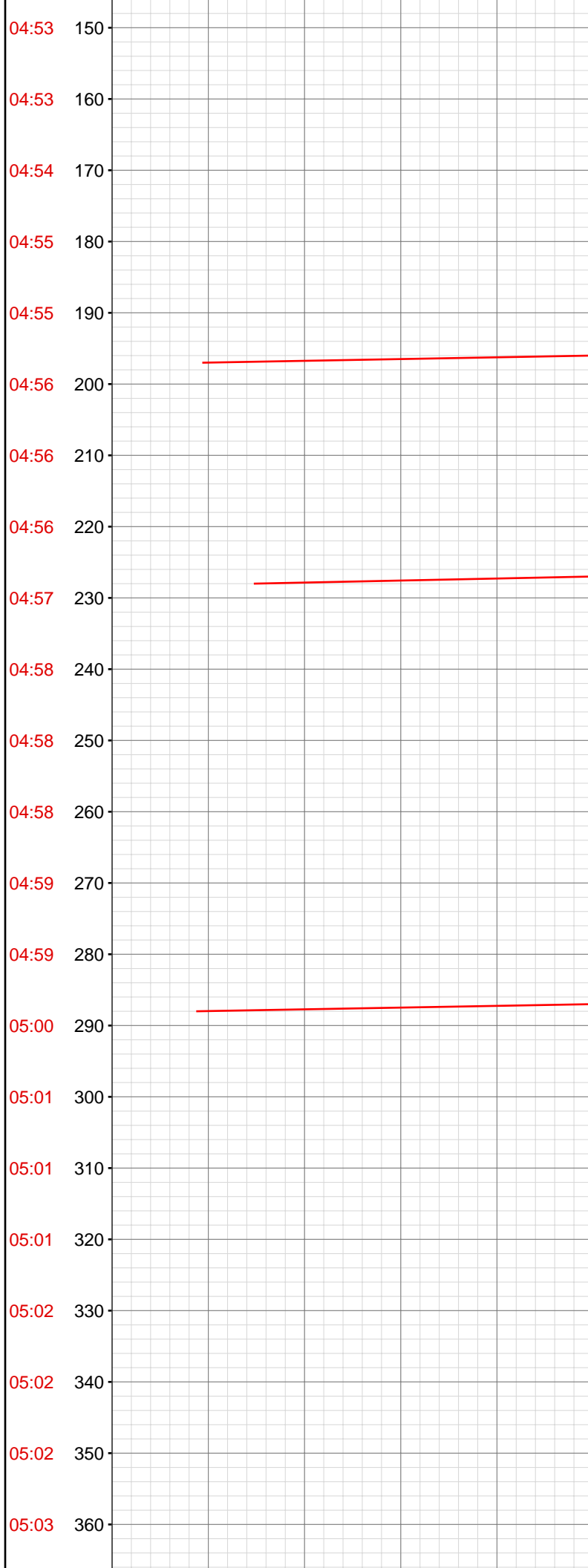
# DataHub EDR Log

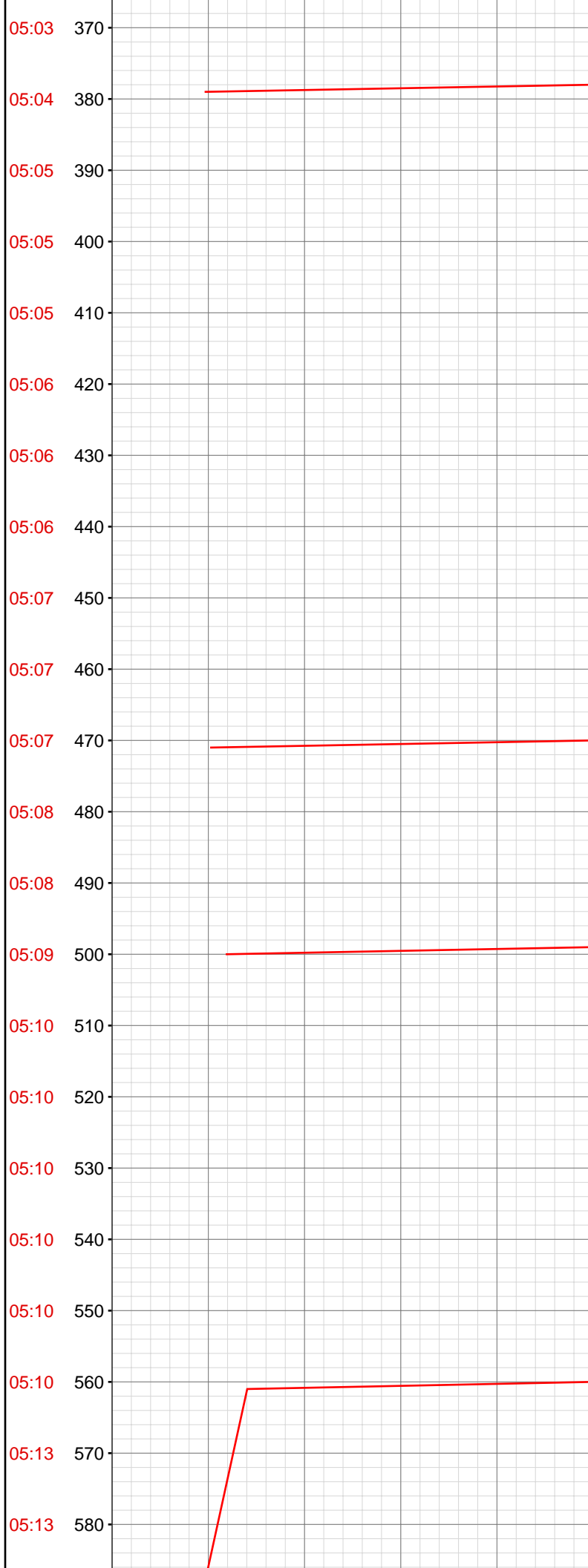
Thu Sep 26, 2013 09:38:30  
Well Dossier 1379728972  
Greg Veregin

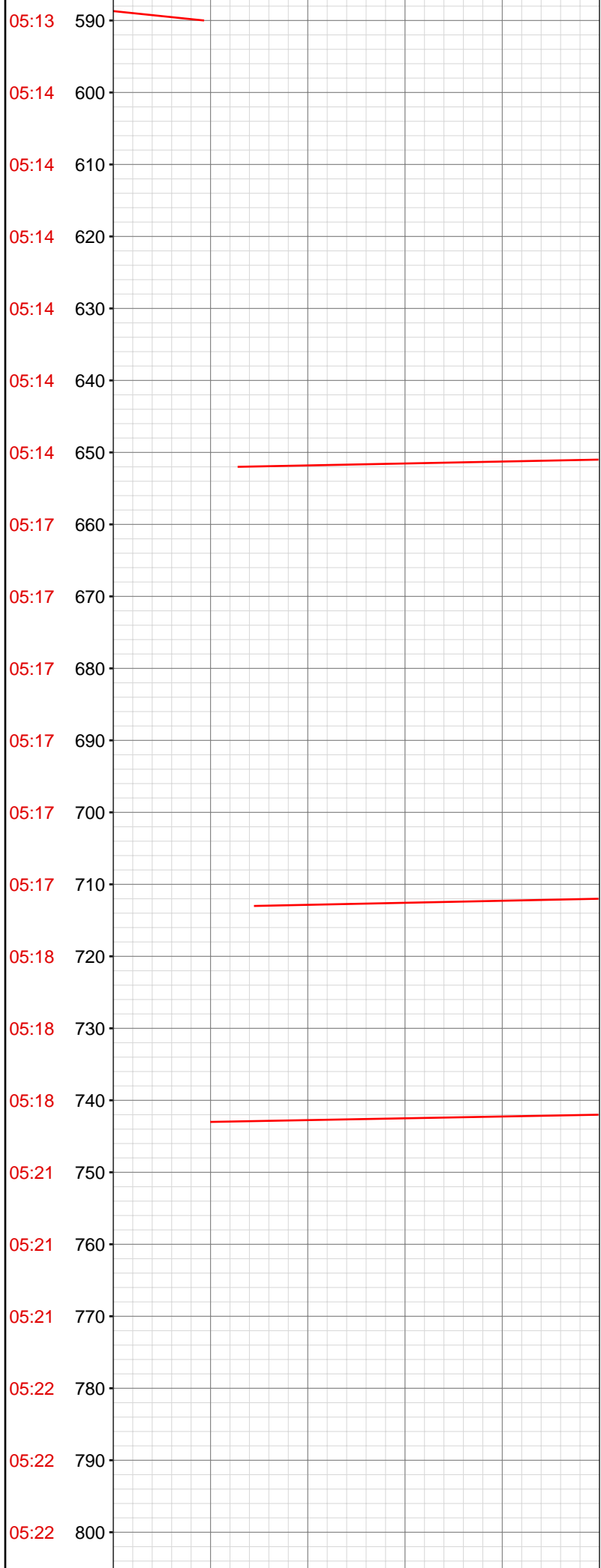
**OPERATOR:** EnCana Oil & Gas (USA), Inc.  
**WELL:** Hagen Federal 22-1AA  
**FIELD:**  
**LOCATION:**  
**COUNTRY:** USA  
**RIG:** Pat-UTI 303

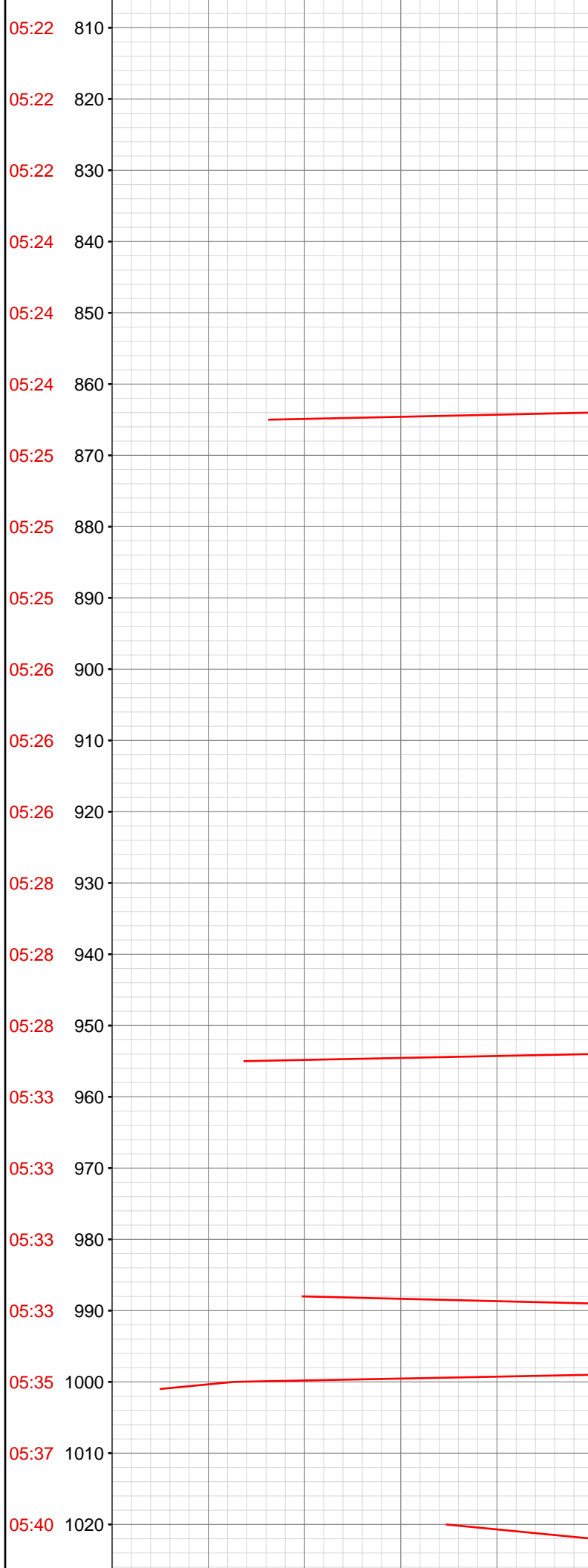
**CONTRACTOR:** Patterson-UTI Drilling Company  
**UNIQUE WELL ID:** 05-045-21945  
**SPUD DATE:** Sep 21, 2013 07:00  
**RELEASE DATE:** Sep 25, 2013 21:00

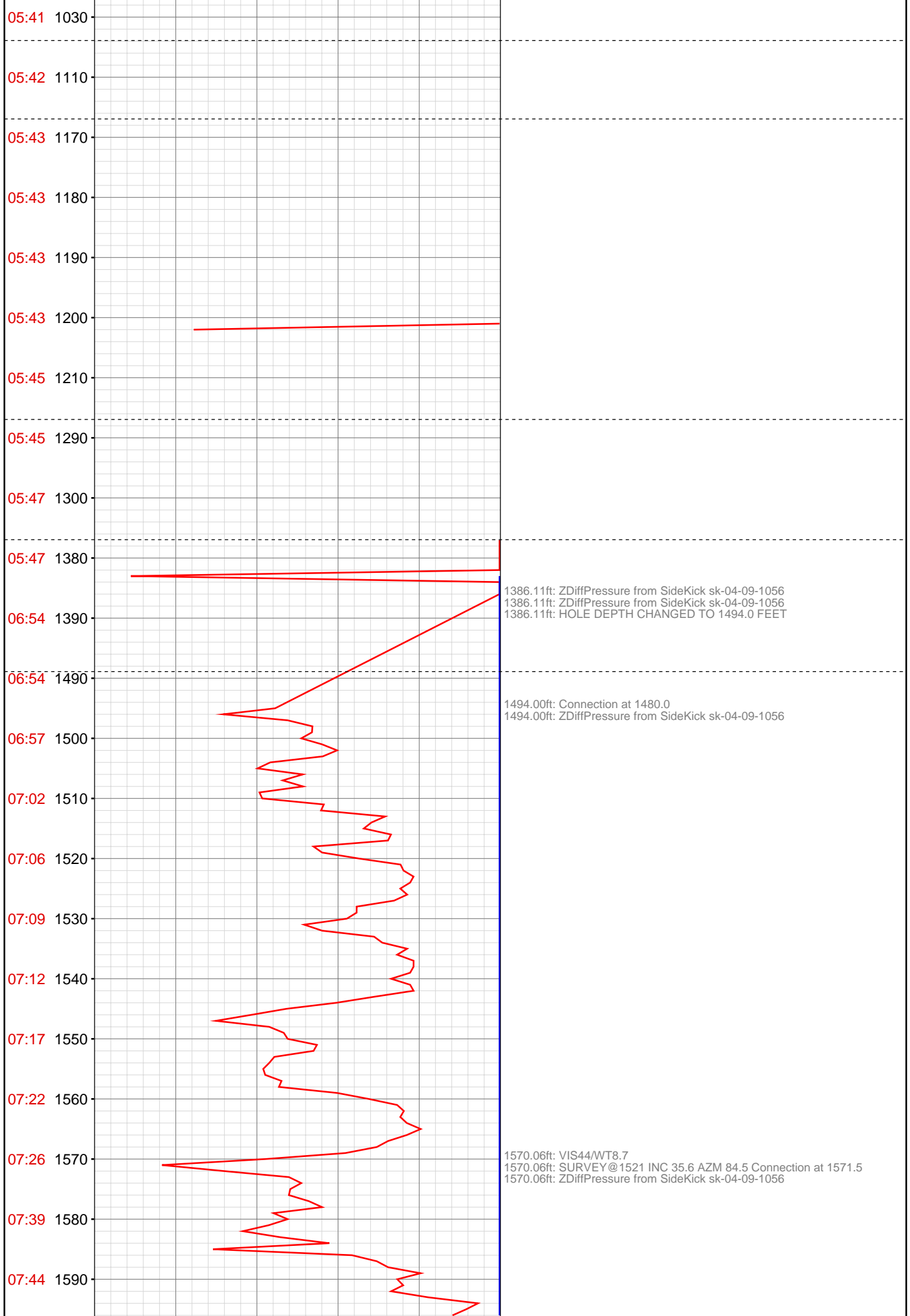


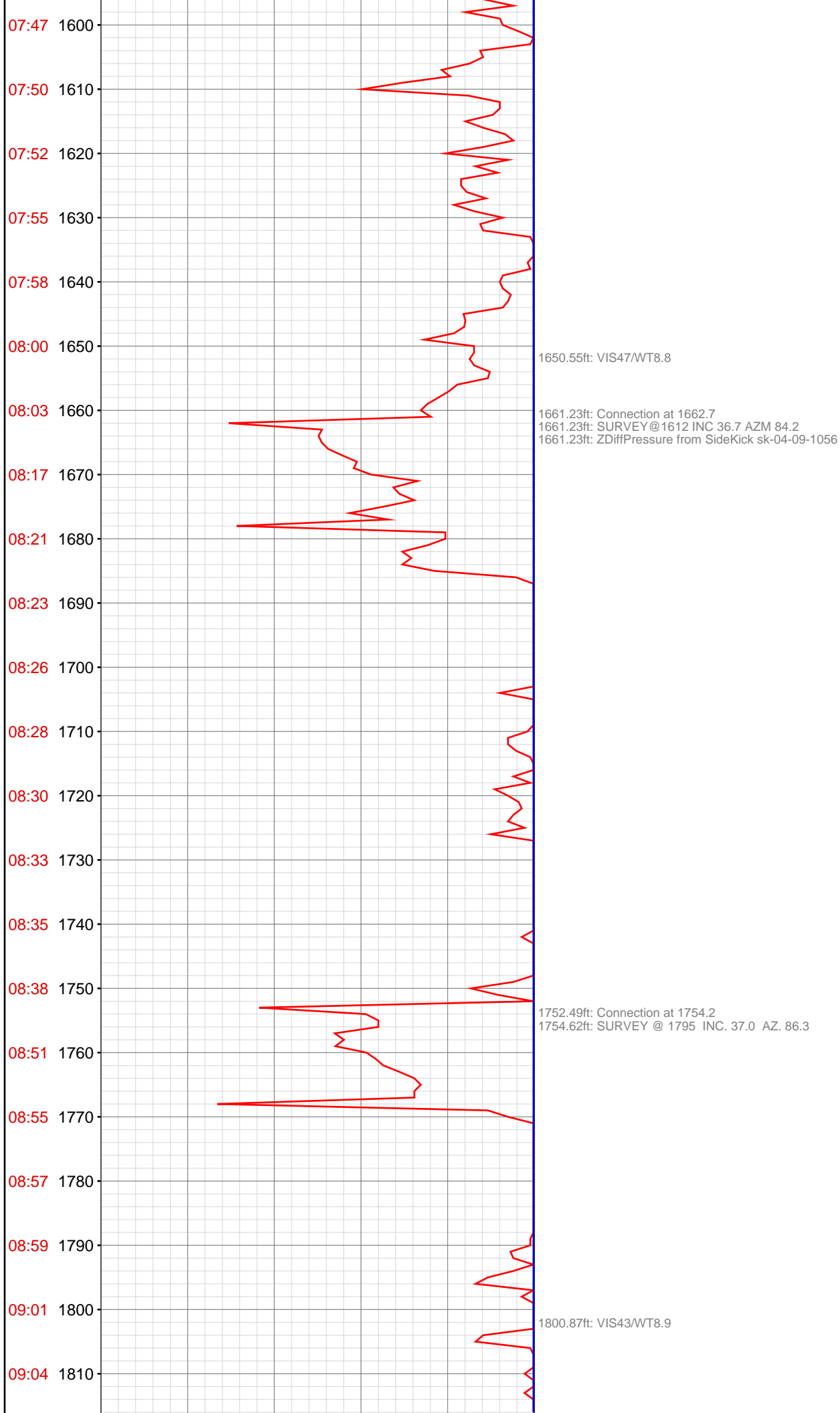


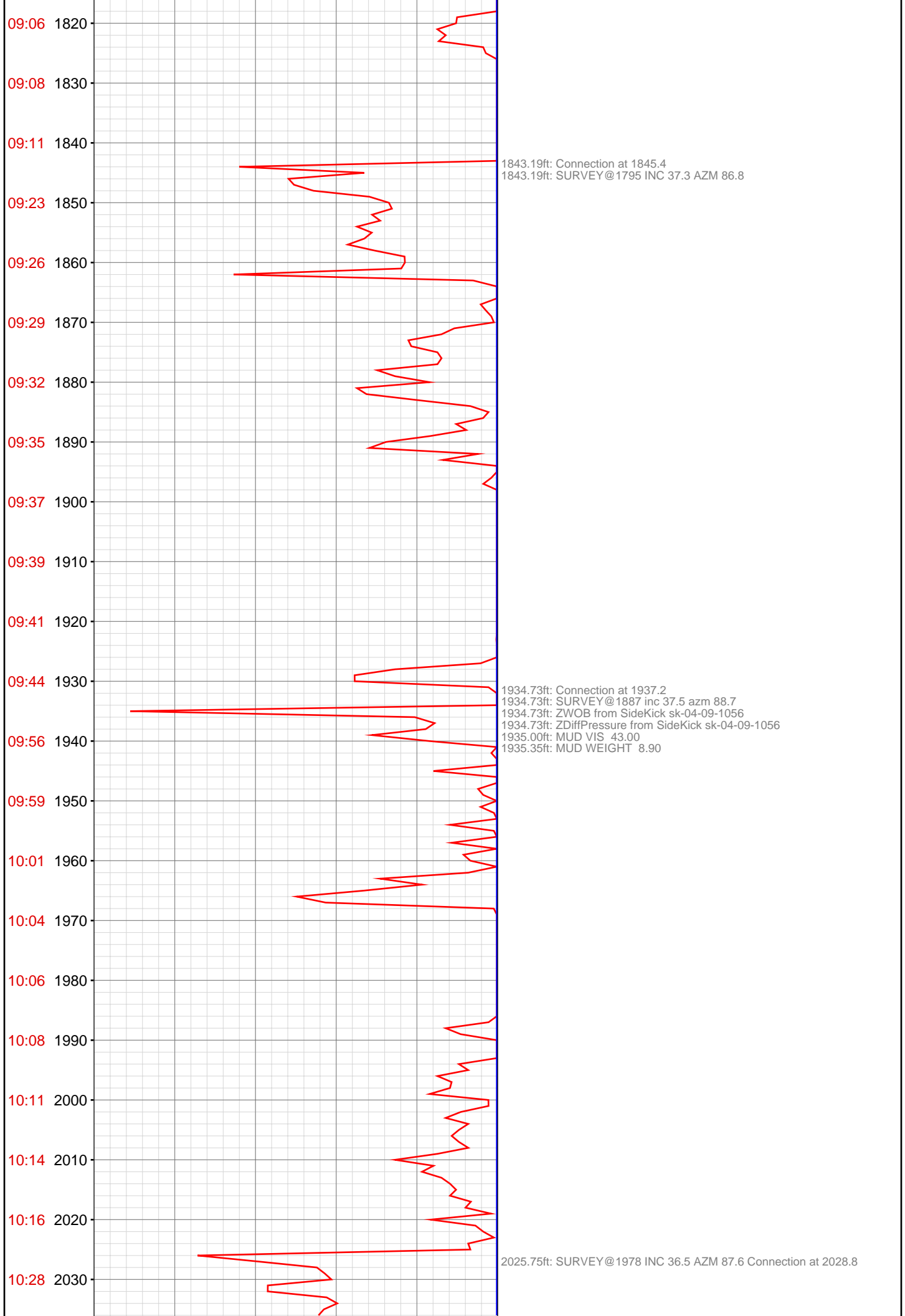




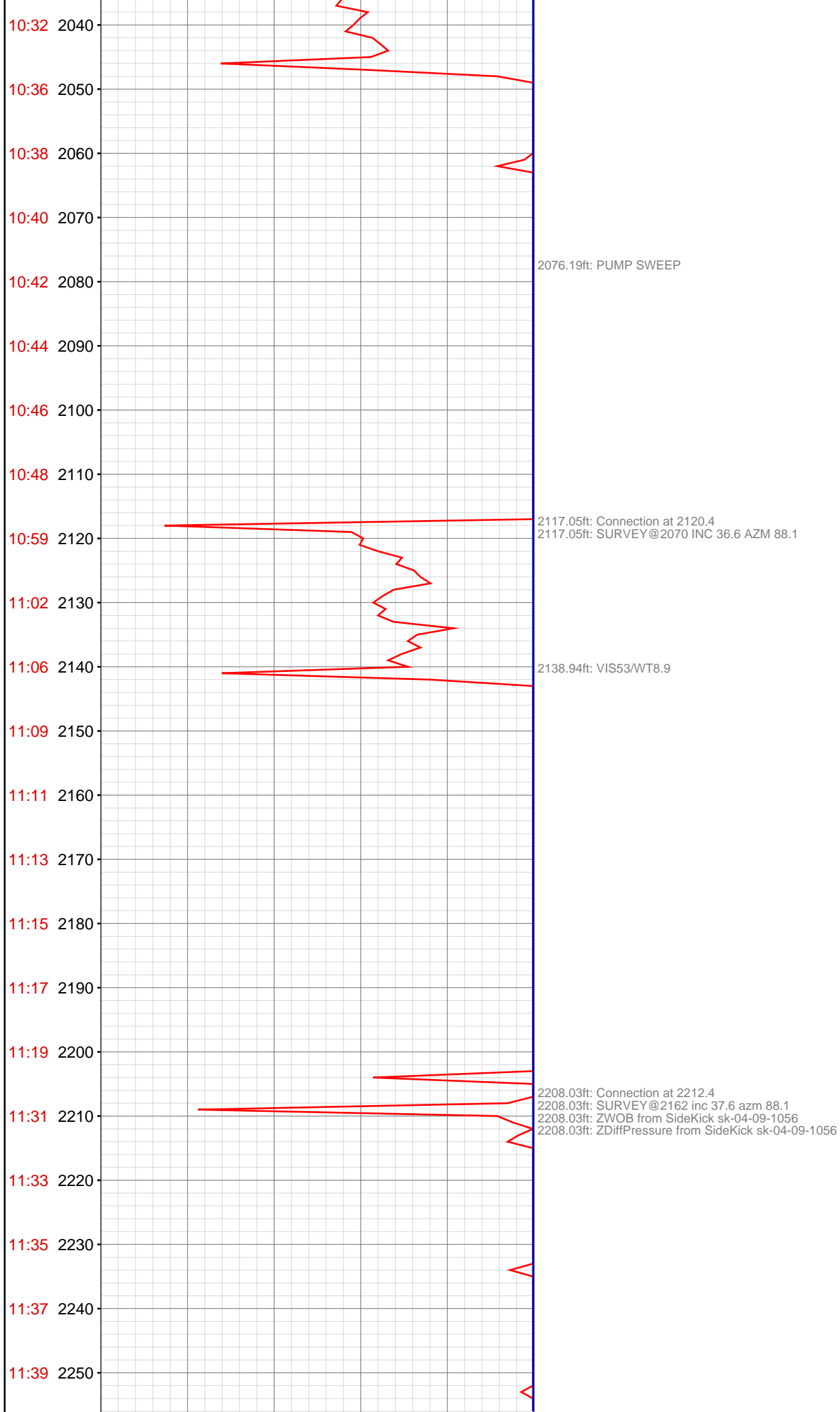












11:41 2260

11:43 2270

11:45 2280

11:47 2290

11:58 2300

12:04 2310

12:09 2320

12:13 2330

12:15 2340

12:17 2350

12:20 2360

12:22 2370

12:24 2380

12:27 2390

12:39 2400

12:41 2410

12:43 2420

12:45 2430

12:48 2440

12:50 2450

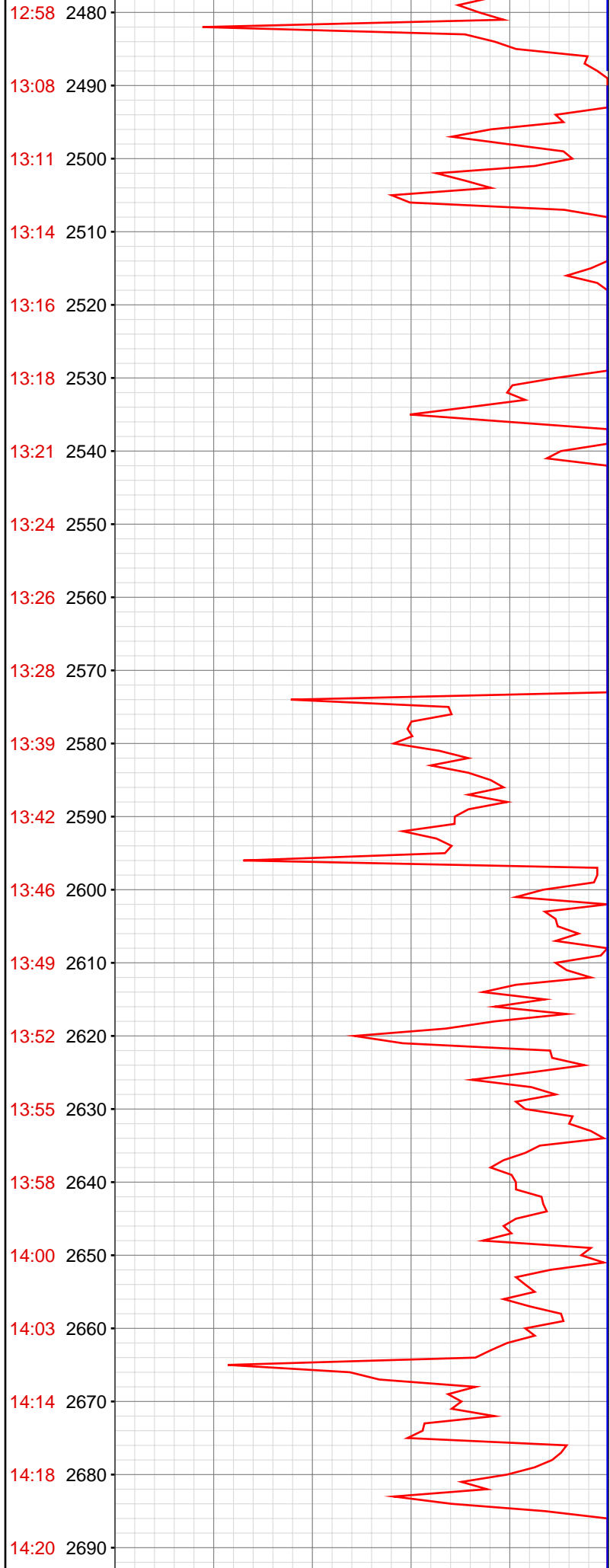
12:53 2460

12:55 2470

2298.44ft: MUD VIS 50.00  
2298.94ft: MUD WEIGHT 9.00  
2299.07ft: Connection at 2304.2  
2299.07ft: SURVEY@2254 INC 36.8 AZM 86.3

2390.40ft: Connection at 2395.9  
2390.40ft: SURVEY@2345 inc 38.3 azm 88.6  
2390.40ft: ZWOB from SideKick sk-04-09-1056

2463.14ft: VIS50/WT9

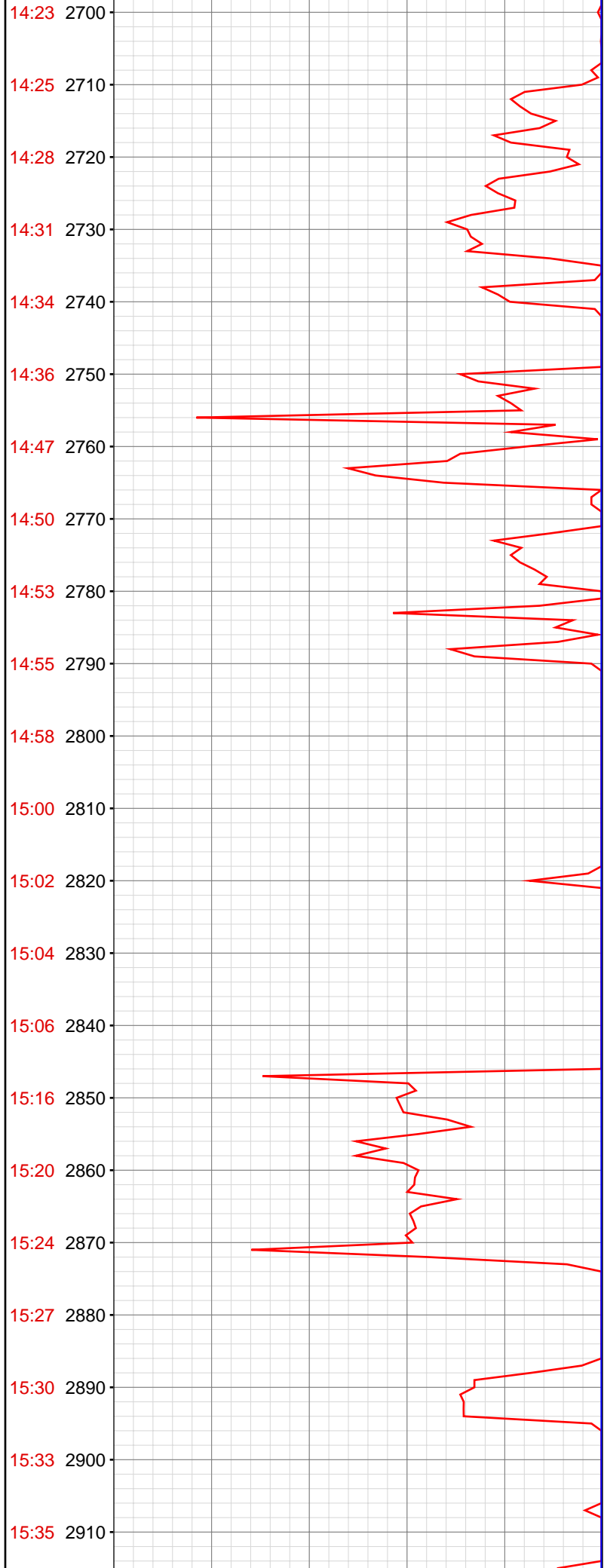


2481.66ft: Connection at 2487.4  
2481.66ft: SURVEY@2437 INC 38 AZM 87.7  
2481.66ft: ZDiffPressure from SideKick sk-04-09-1056  
2481.66ft: ZWOB from SideKick sk-04-09-1056

2573.28ft: Connection at 2579.1  
2573.28ft: SURVEY#2529 INC 37.5 AZM 86.4

2655.14ft: MUD VIS 50.00  
2655.69ft: MUD WEIGHT 9.10

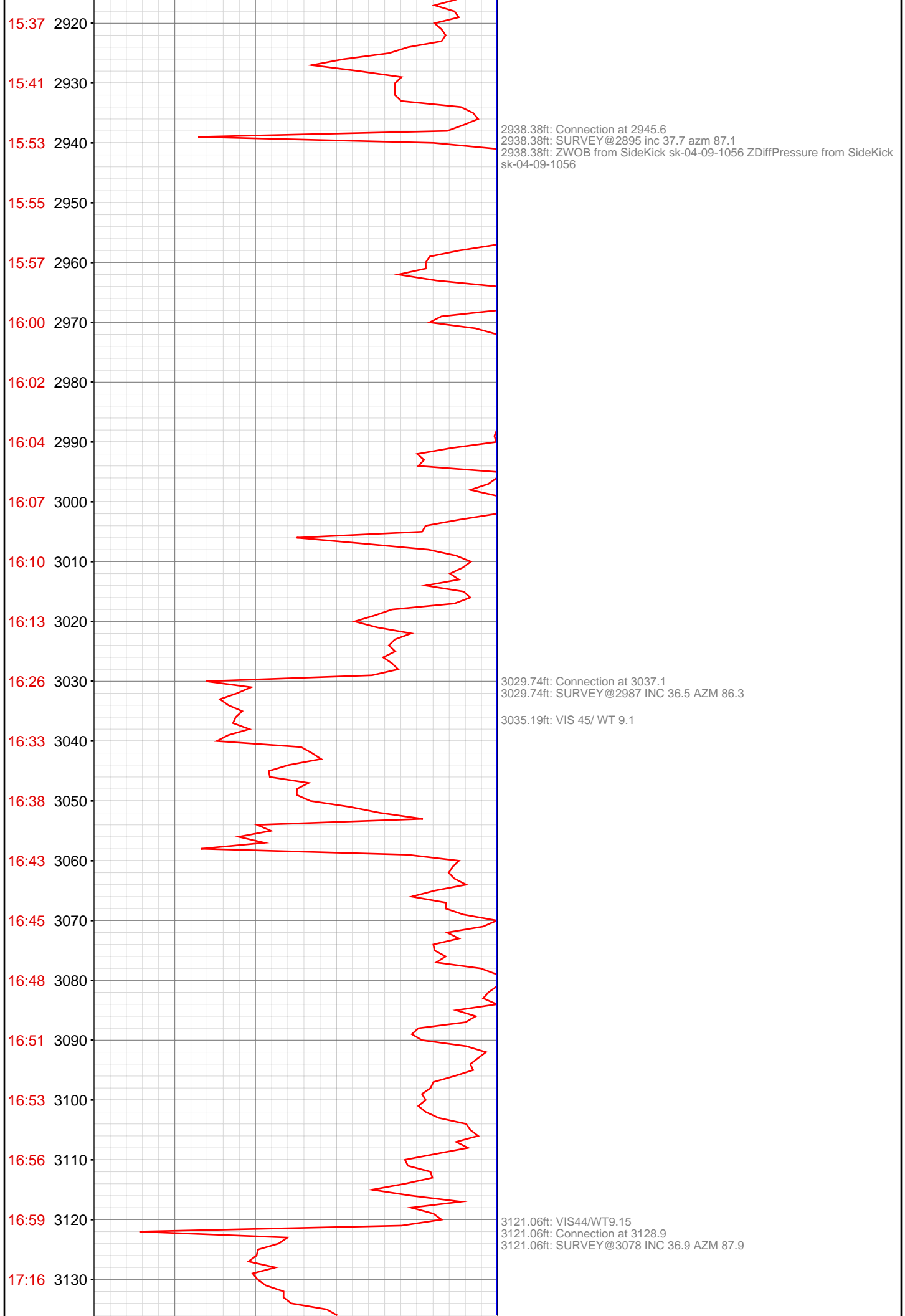
2664.36ft: Connection at 2670.7  
2664.36ft: SURVEY@2620 inc 38.3 azm 88  
2664.36ft: ZWOB from SideKick sk-04-09-1056

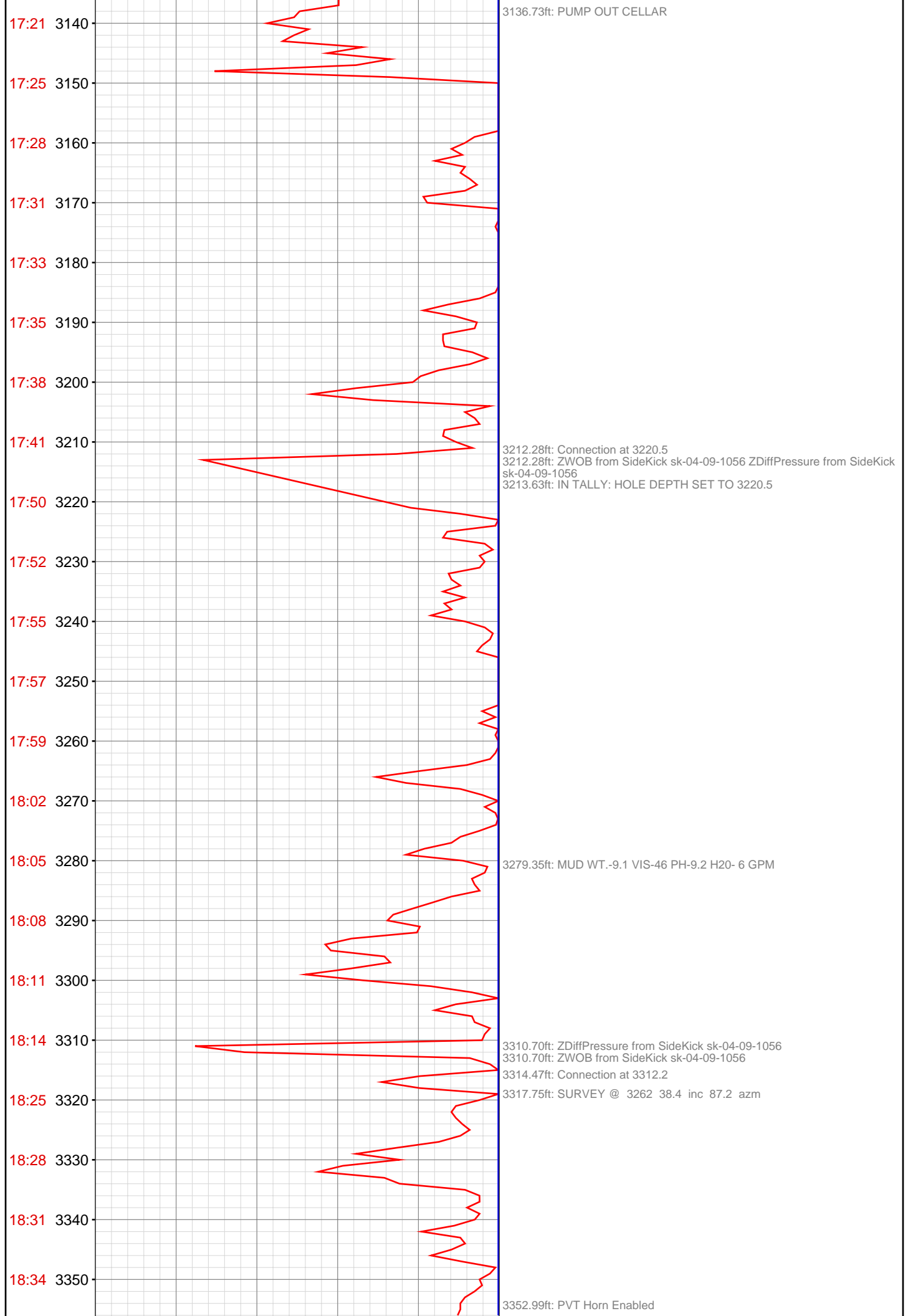


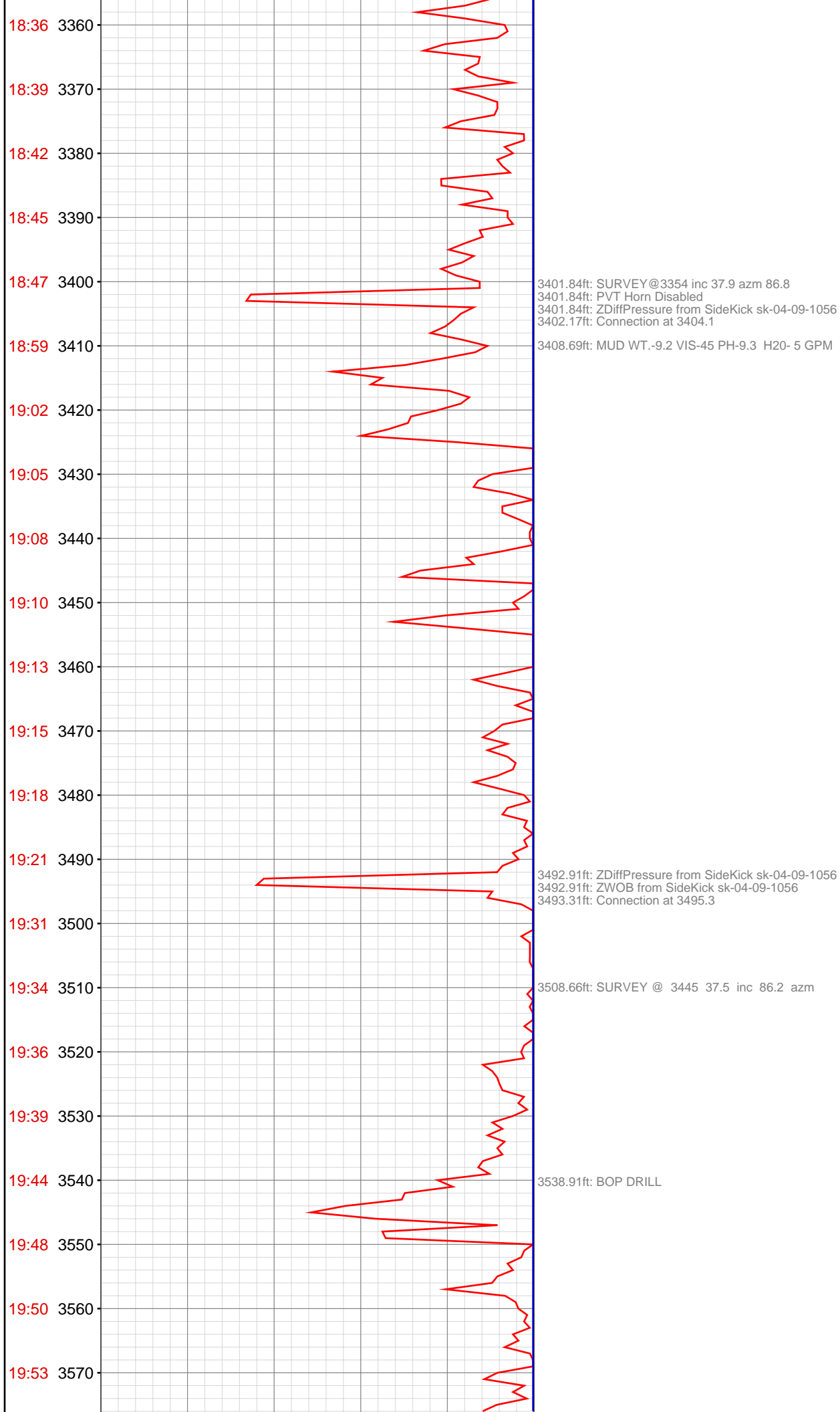
2755.72ft: Connection at 2762.6  
2755.72ft: SURVEY@2712 inc 37.7 azm 87

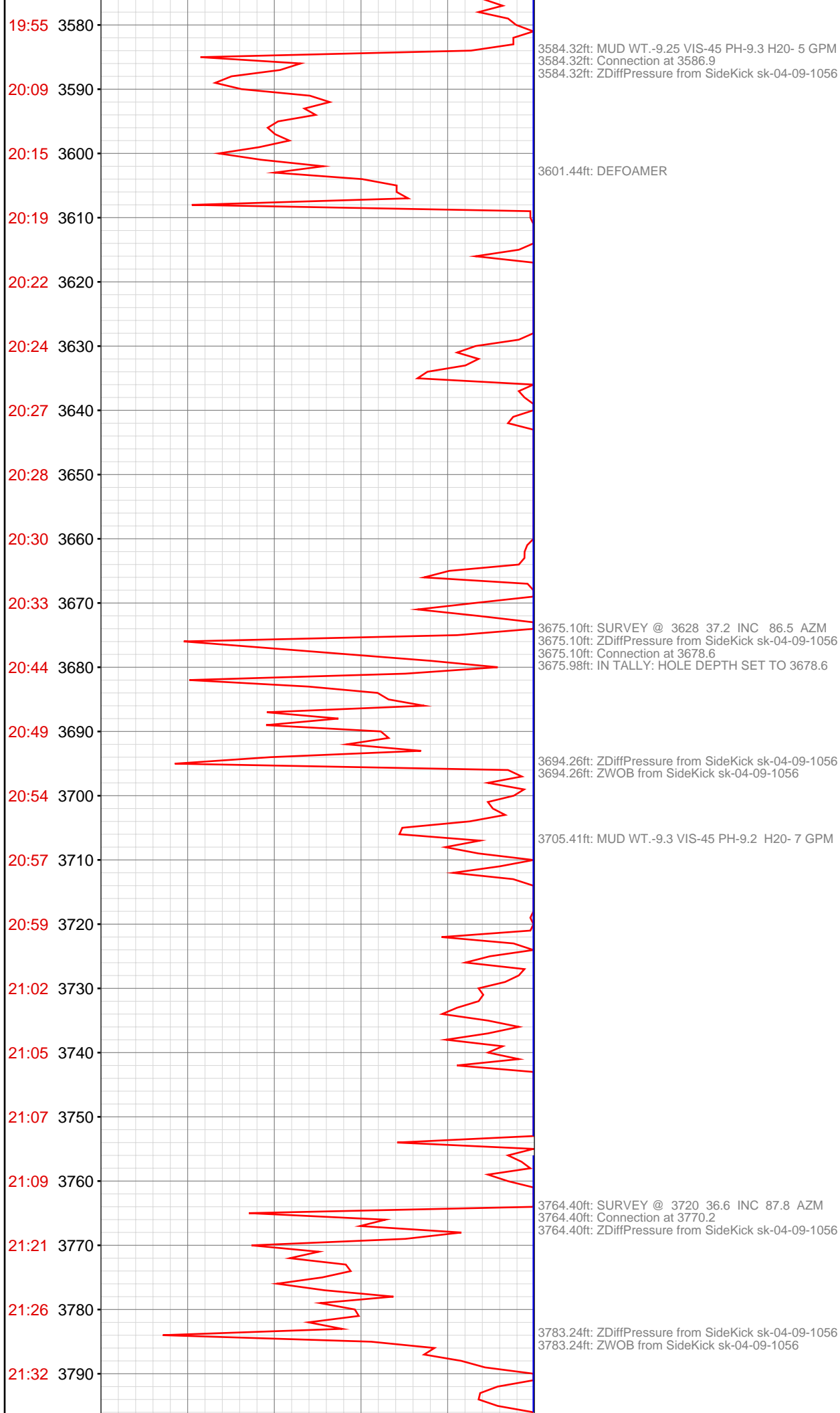
2817.61ft: VIS47/WT9.1

2846.94ft: Connection at 2854.0  
2846.94ft: SURVEY@2804 INC 36.9 AZM 86.7  
2846.94ft: ZDiffPressure from SideKick sk-04-09-1056

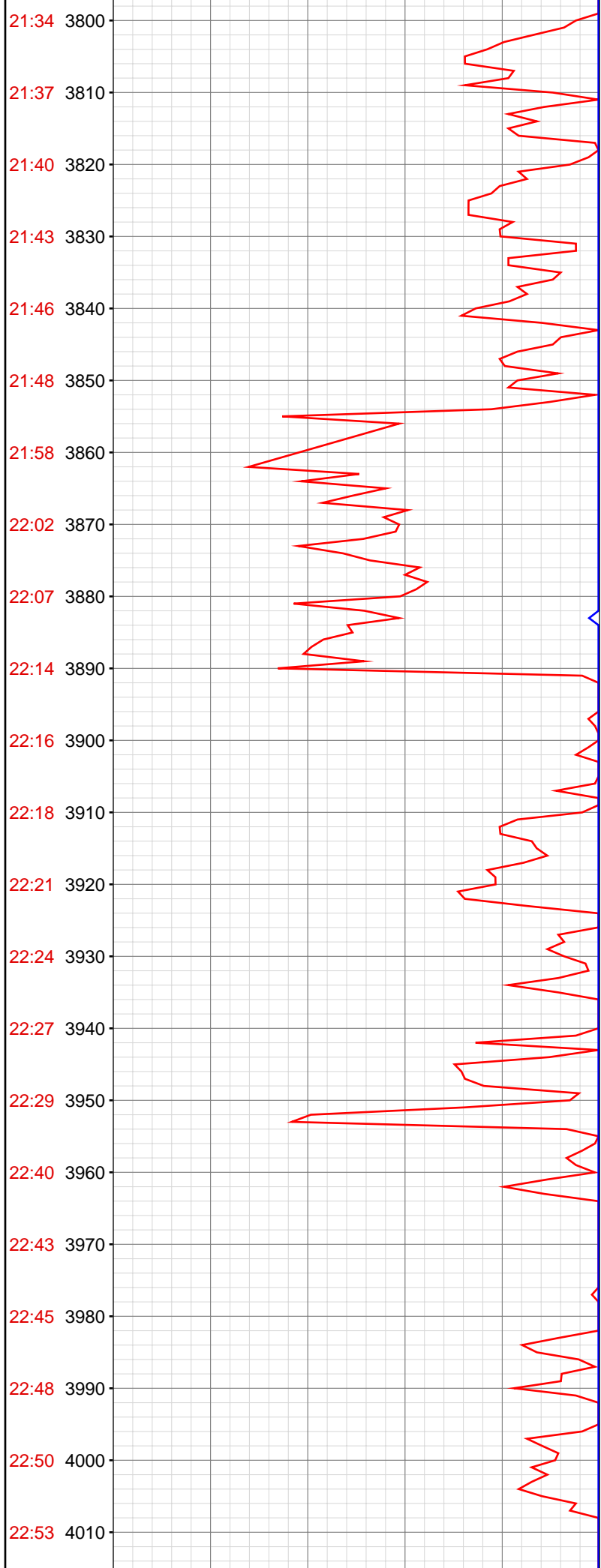










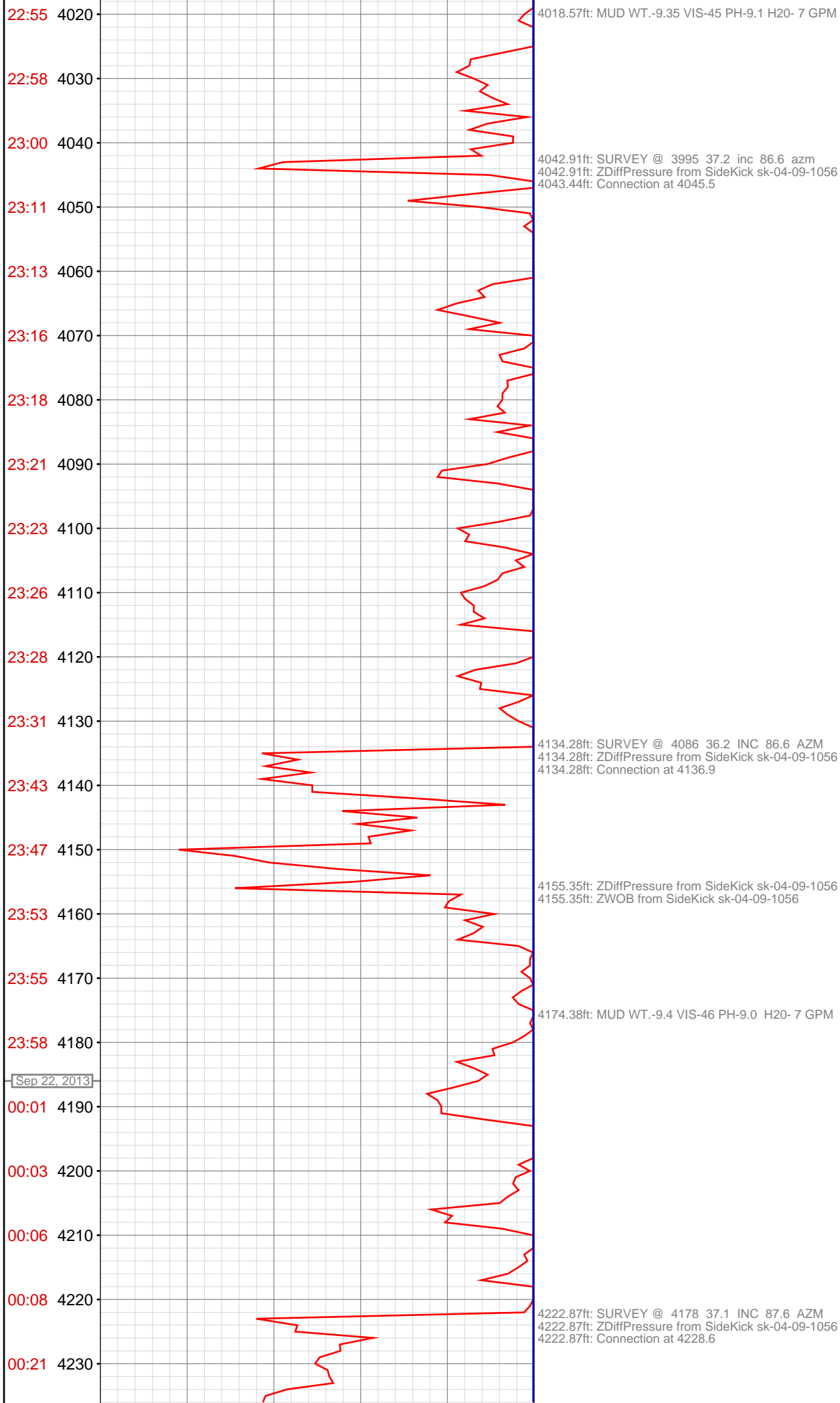


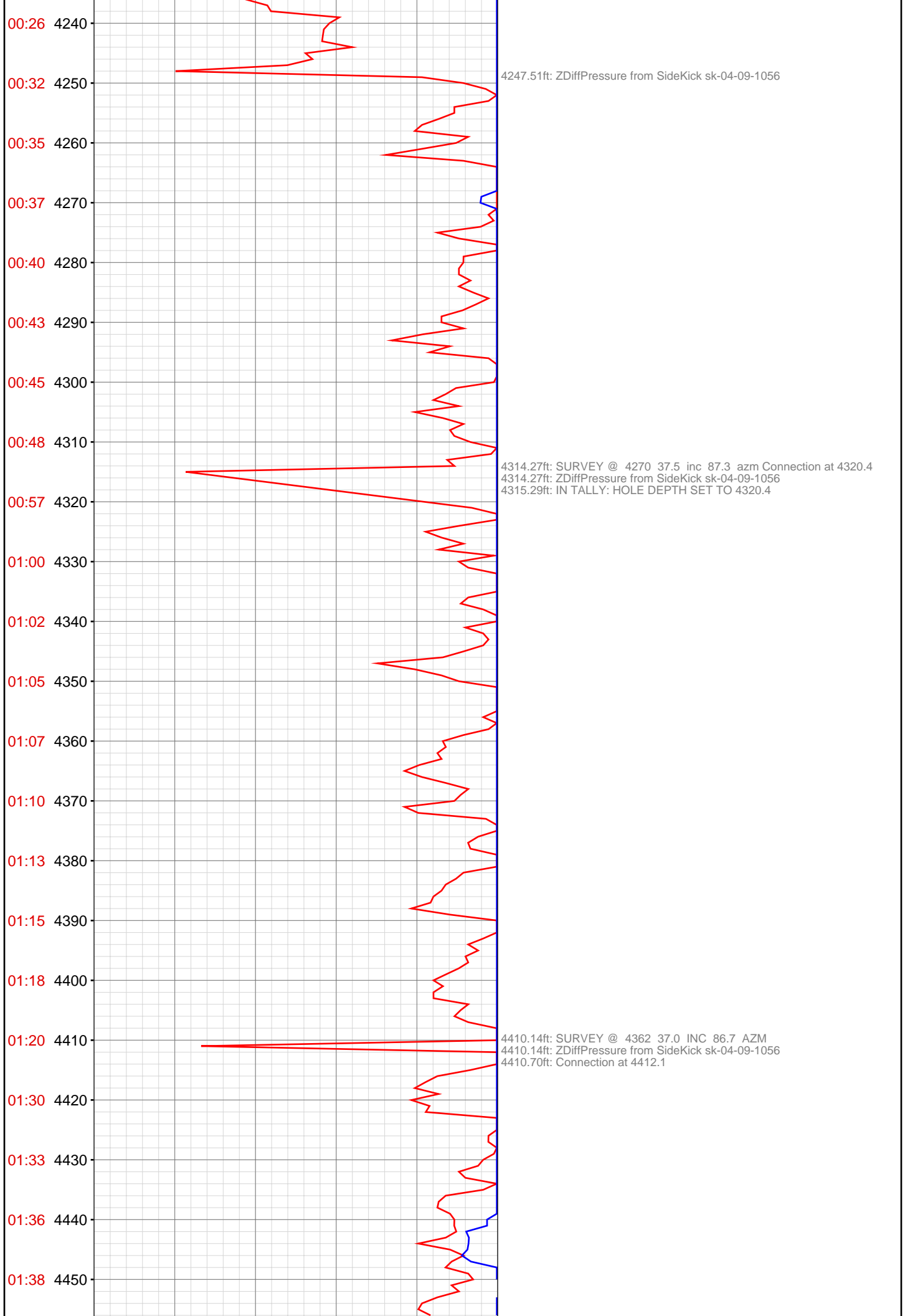
3854.99ft: SURVEY @ 3811 36.2 INC 87.8 AZM  
3854.99ft: MUD WT.-9.3 VIS-45 PH-9.1 H2O- 7 GPM  
3854.99ft: ZDiffPressure from SideKick sk-04-09-1056  
3854.99ft: Connection at 3861.9  
3856.04ft: IN TALLY: HOLE DEPTH SET TO 3861.9

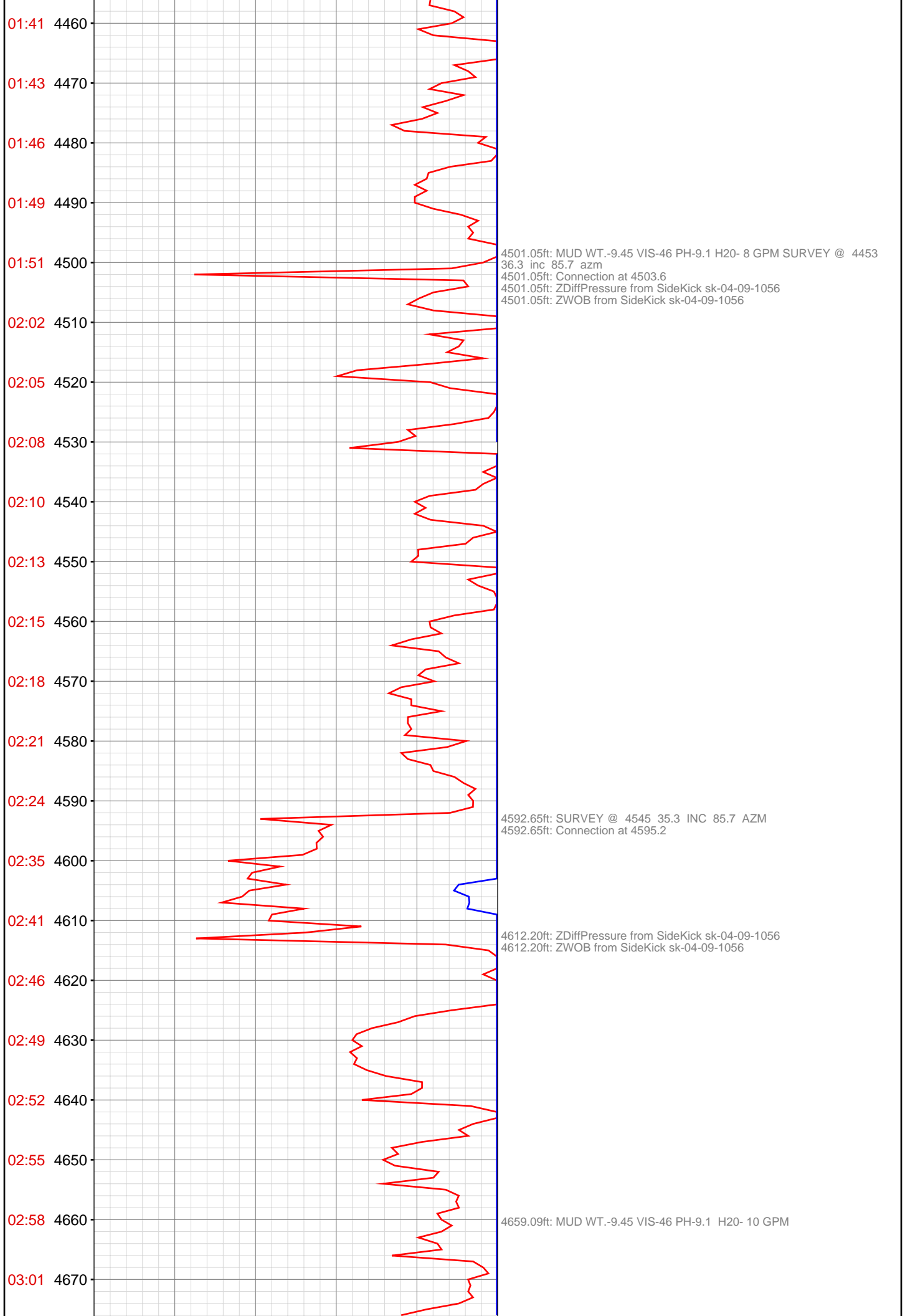
3870.87ft: DEFOAMER

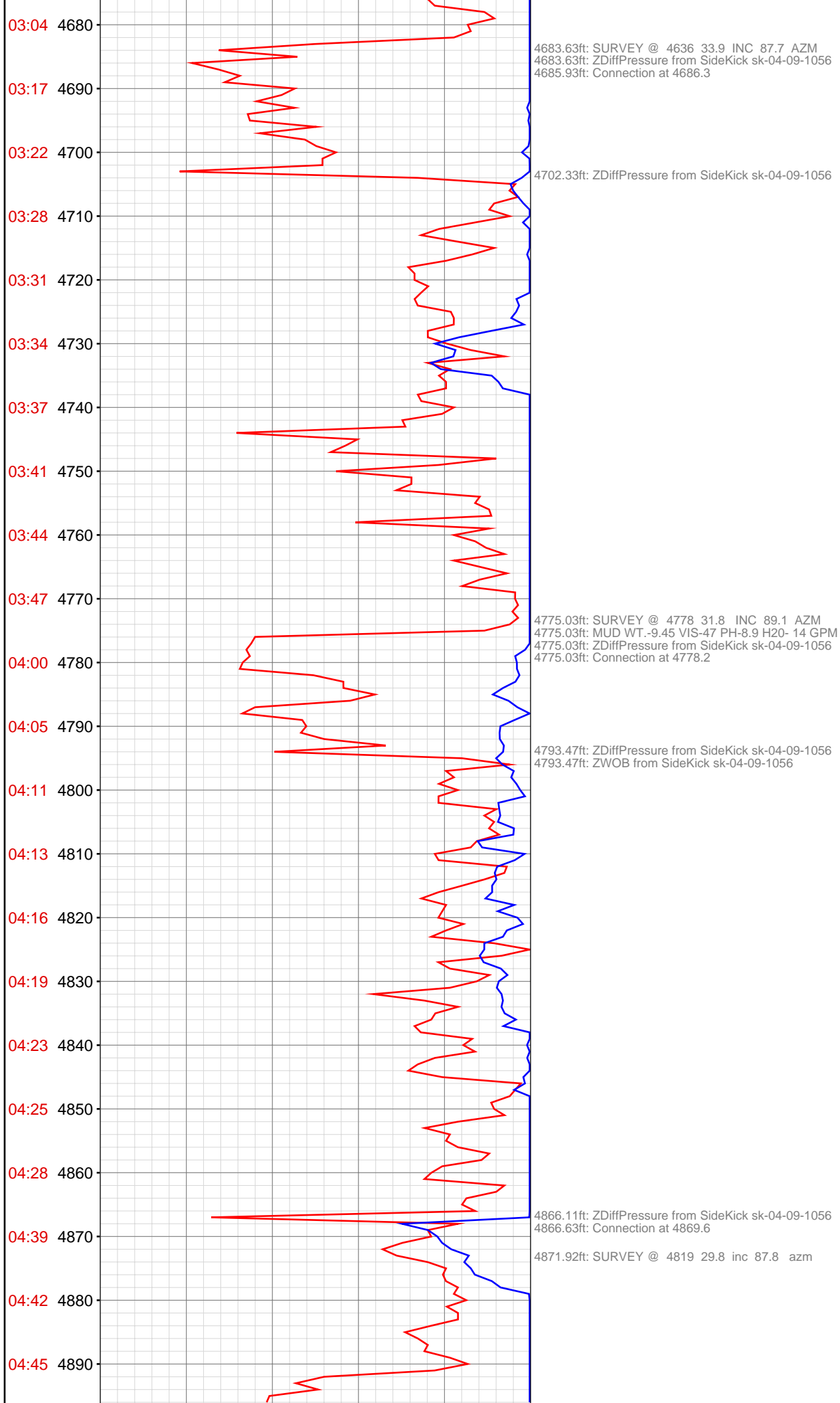
3889.17ft: ZDiffPressure from SideKick sk-04-09-1056

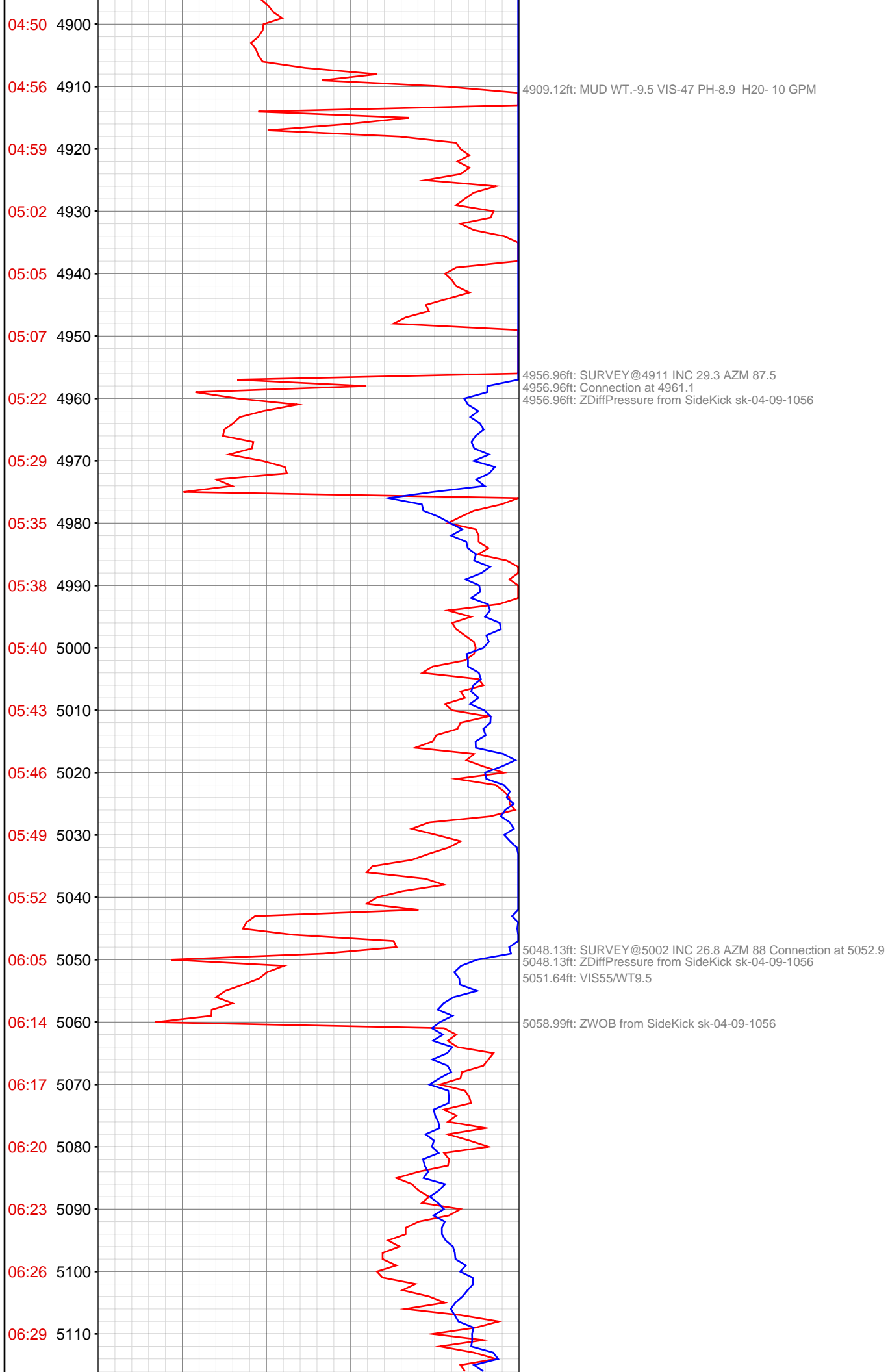
3951.97ft: SURVEY @ 3903 37.9 INC 87.2 AZM  
3951.97ft: ZDiffPressure from SideKick sk-04-09-1056  
3951.97ft: Connection at 3861.9

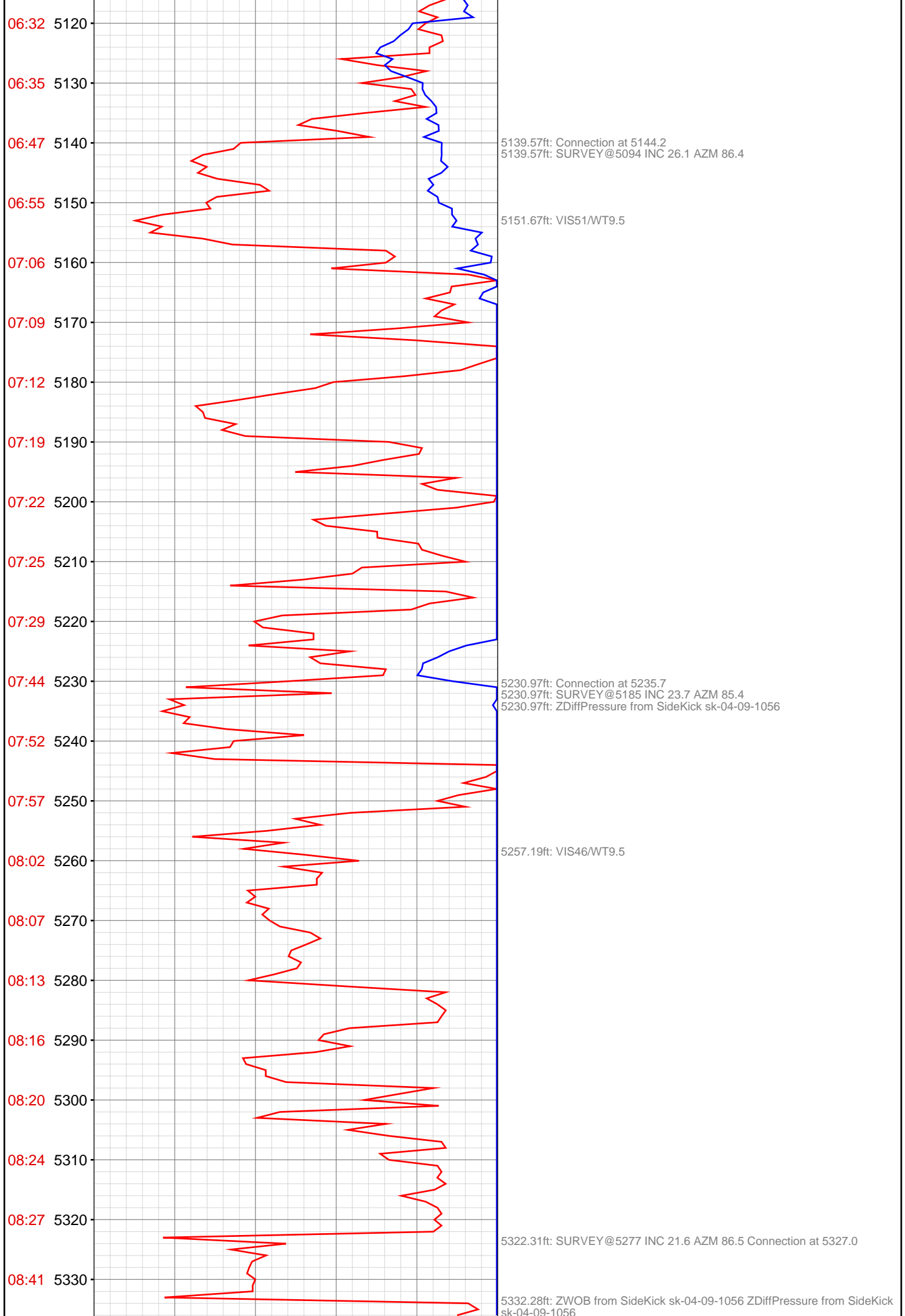


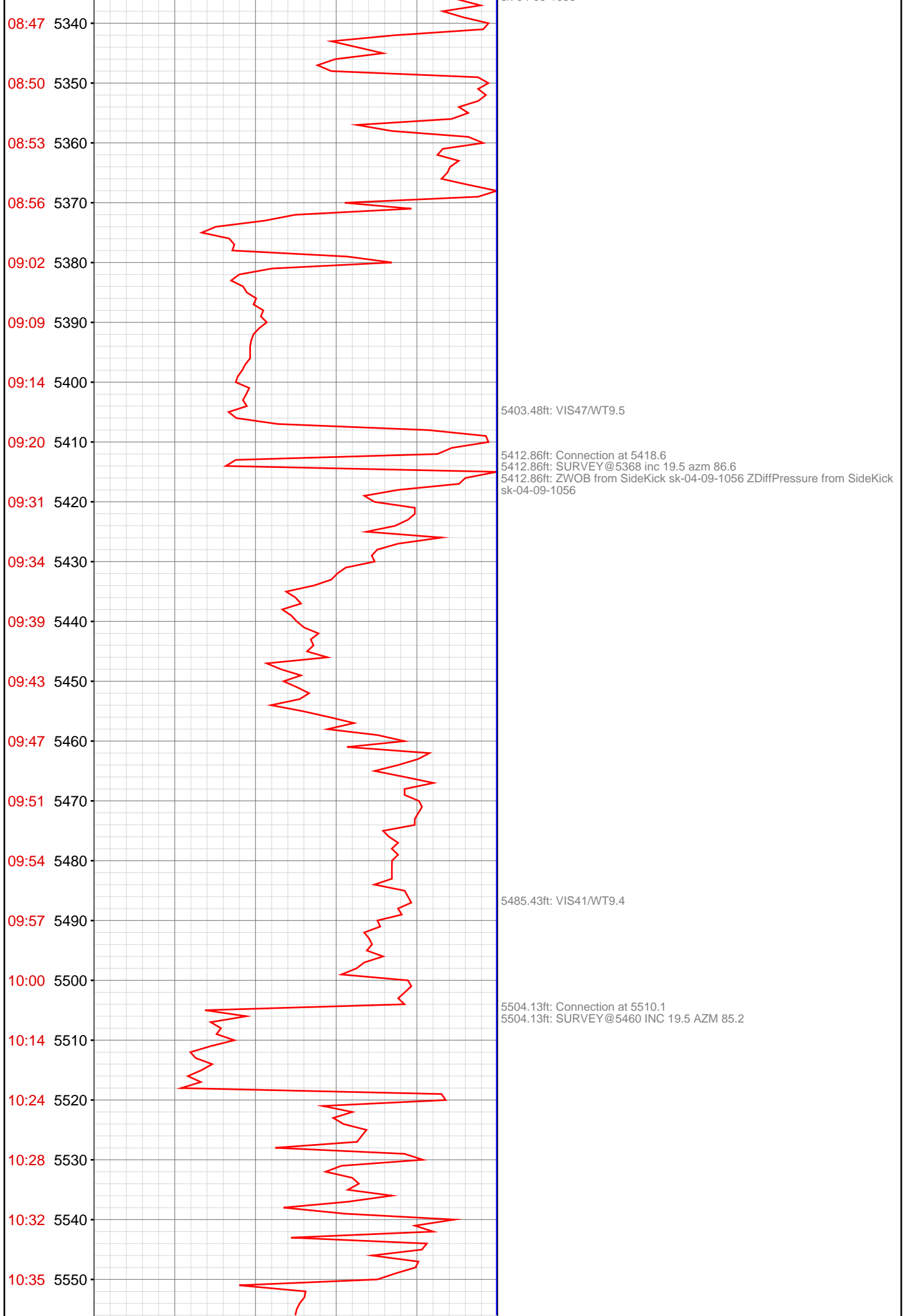




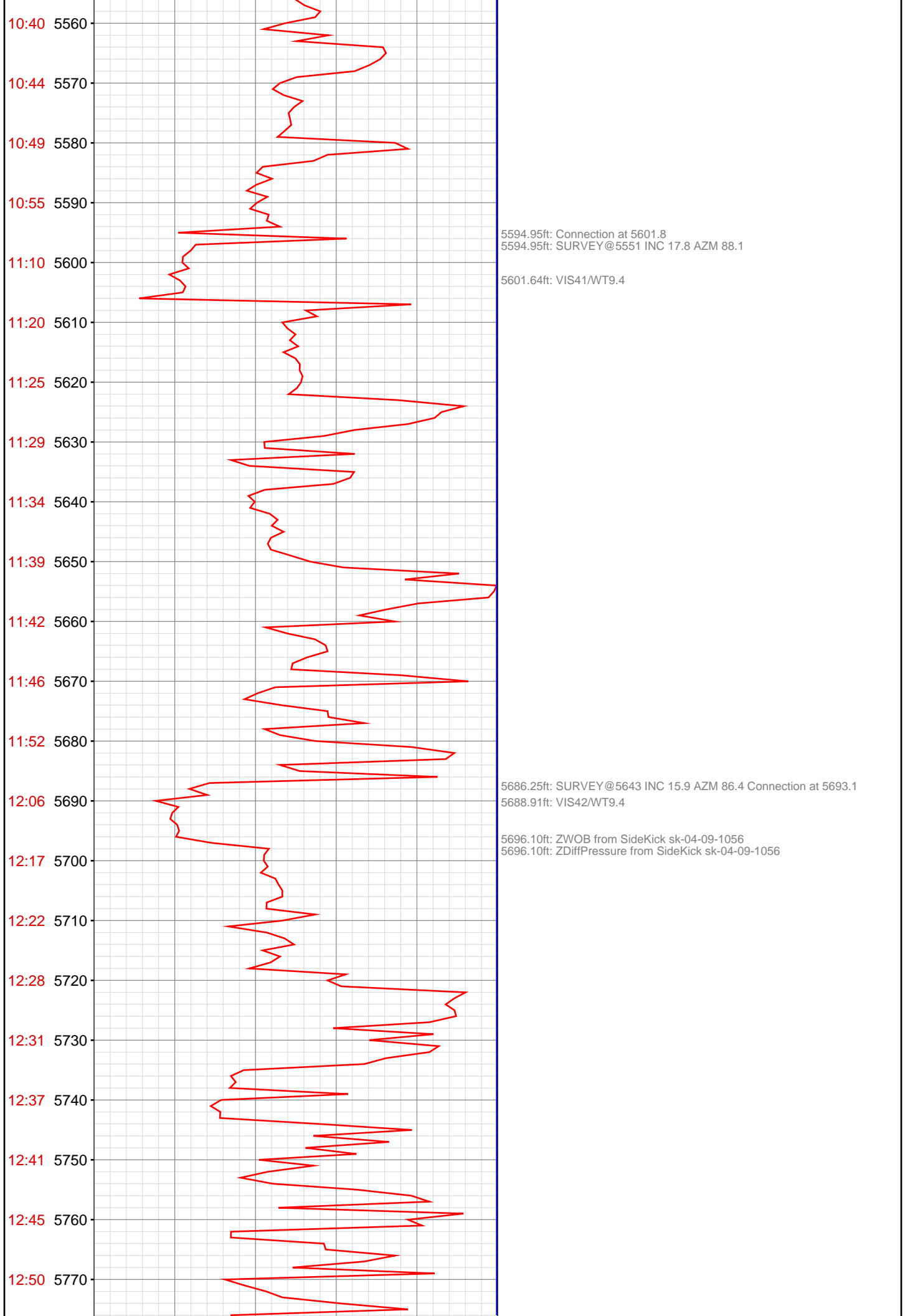










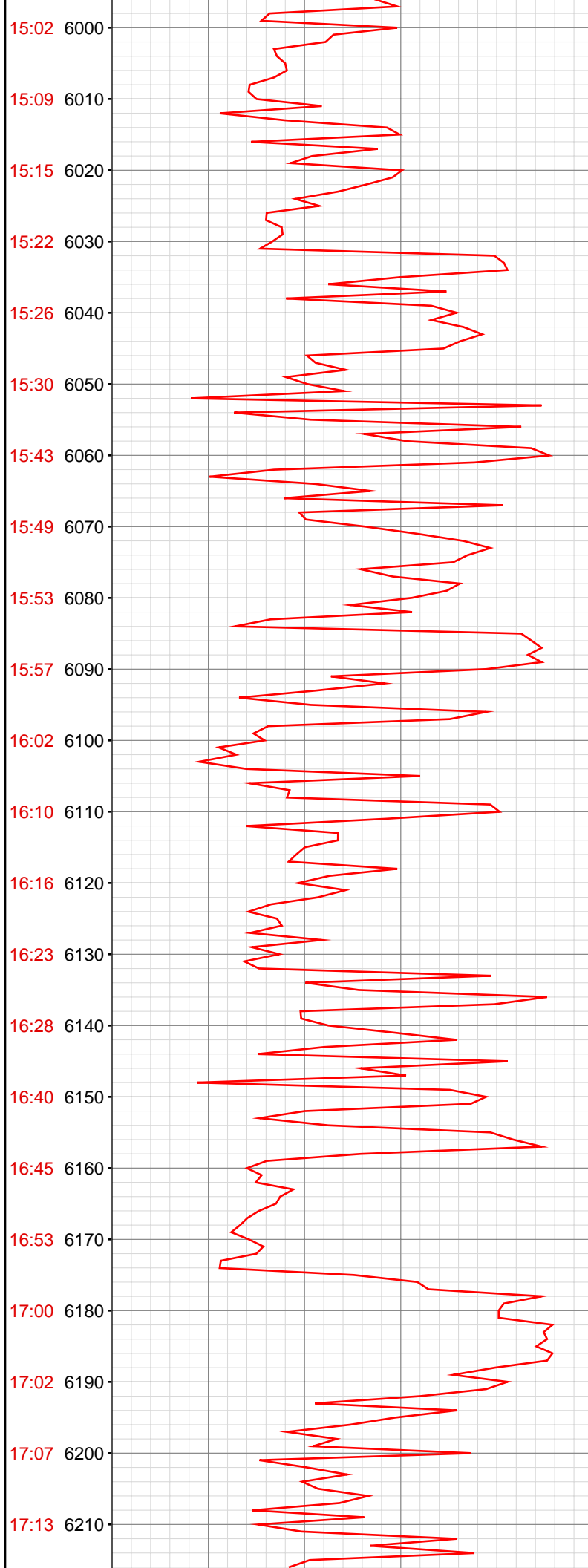


5777.76ft: Connection at 5784.7  
5777.76ft: SURVEY@5734 INC 14.2 AZM 86.9

5868.83ft: Connection at 5876.5 SURVEY@5826 inc 12 azm 86.6  
5868.83ft: ZWOB from SideKick sk-04-09-1056 ZDiffPressure from SideKick  
sk-04-09-1056

5960.14ft: Connection at 5968.1  
5960.14ft: SURVEY@5918 inc 10.5 azm 86.2  
5960.14ft: ZWOB from SideKick sk-04-09-1056 ZDiffPressure from SideKick  
sk-04-09-1056

5991.83ft: VIS42/WT9.5



6001.21ft: PUMP OUT CELLAR

6051.51ft: Connection at 6059.6  
6051.51ft: SURVEY@6009 inc9 azm 85.6  
6051.51ft: ZWOB from SideKick sk-04-09-1056  
6051.51ft: ZDiffPressure from SideKick sk-04-09-1056

6083.46ft: VIS44/WT9.5

6142.82ft: SURVEY@6101 inc 7.9 azm 85.6 Connection at 6151.1

6171.36ft: VIS41/WT9.5

17:17 6220  
17:25 6230  
17:42 6240  
17:48 6250  
17:54 6260  
18:01 6270  
18:09 6280  
18:16 6290  
18:24 6300  
18:31 6310  
18:39 6320  
18:53 6330  
18:59 6340  
19:04 6350  
19:10 6360  
19:15 6370  
19:22 6380  
19:28 6390  
19:33 6400  
19:37 6410  
19:43 6420  
20:01 6430



6234.28ft: Connection at 6242.4  
6234.28ft: SURVEY @ 6192 6.9 inc 85.4 azm  
6234.28ft: ZWOB from SideKick sk-04-09-1056 ZDiffPressure from SideKick sk-04-09-1056

6299.28ft: MUD WT.-9.5 VIS-43 PH-9.0 H2O- 3 GPM

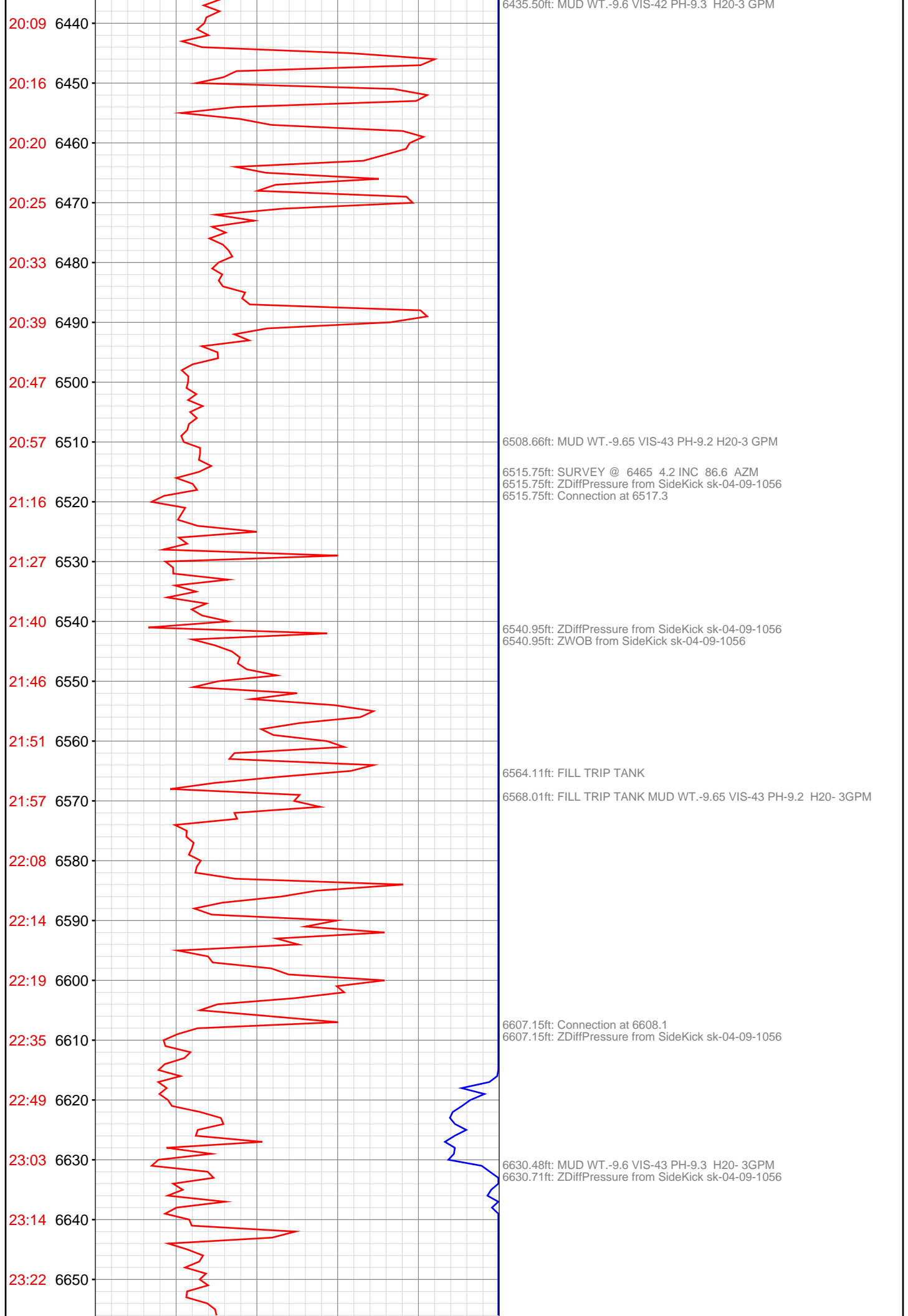
6325.59ft: SURVEY @ 5.8 inc 83.4 azm Connection at 6334.1  
6325.59ft: ZDiffPressure from SideKick sk-04-09-1056  
6326.18ft: IN TALLY: HOLE DEPTH SET TO 6334.1

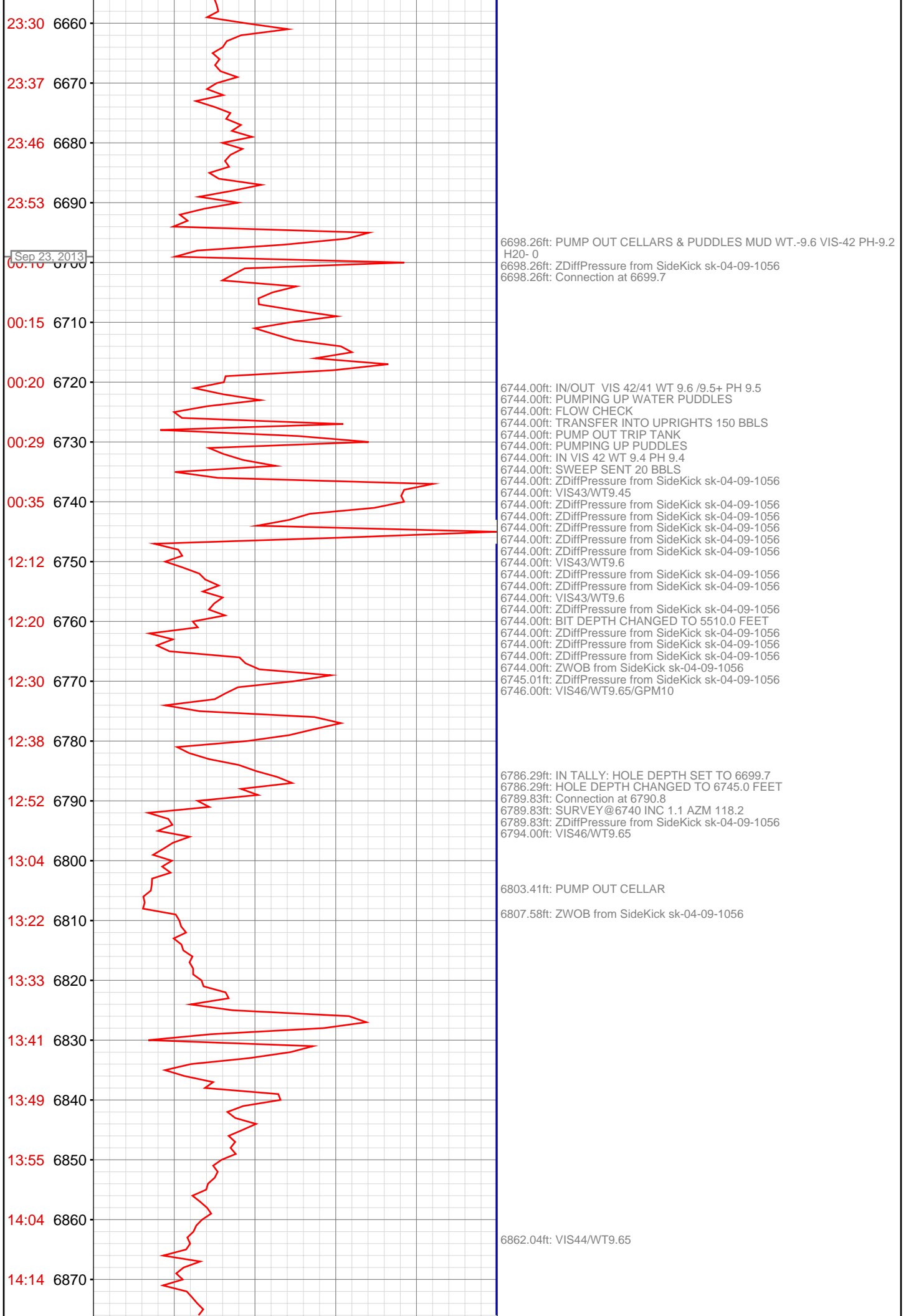
6339.67ft: MUD WT.-9.6 VIS-43 PH-9.3 H2O-3 GPM

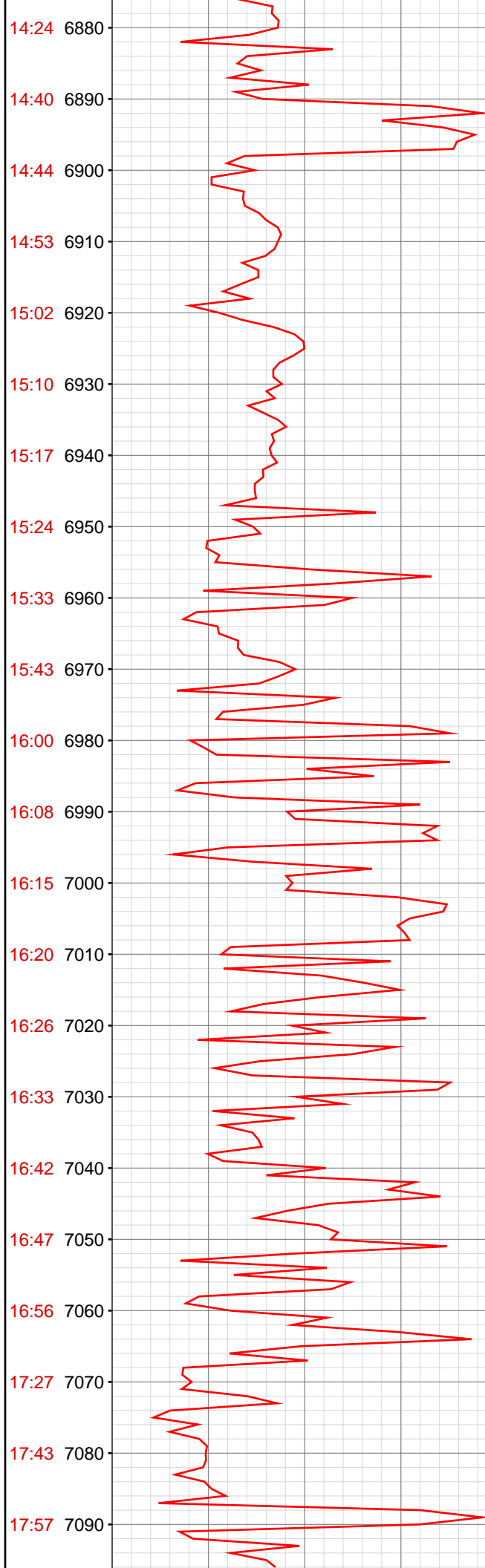
6379.27ft: PVT Horn Enabled

6388.16ft: PUMP OUT CELLARS

6424.64ft: PVT Horn Disabled  
6424.64ft: HOOKLOAD WAS RECALIBRATED  
6424.64ft: SURVEY @ 6375 5.1 inc 81.8 azm  
6424.64ft: ZDiffPressure from SideKick sk-04-09-1056  
6424.64ft: ZWOB from SideKick sk-04-09-1056  
6425.72ft: Connection at 6425.5







6881.10ft: Connection at 6882.4  
6881.10ft: SURVEY@6832 inc 1.5 azm 70.3

6935.96ft: VIS 45/WT 9.7

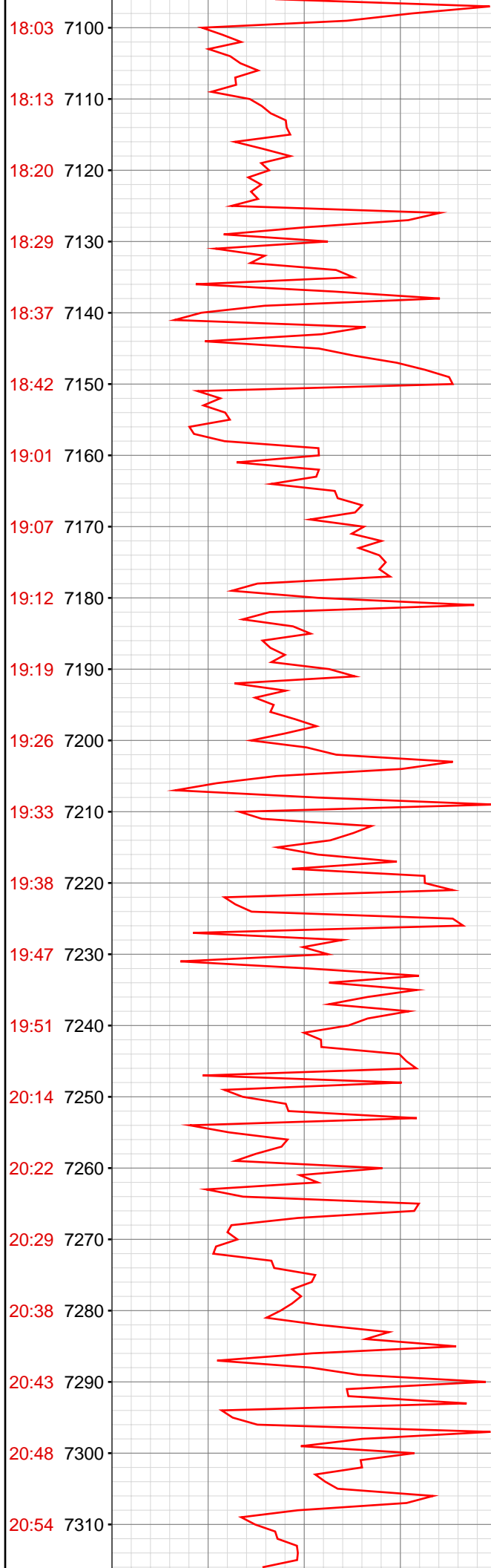
6972.38ft: Connection at 6973.7  
6972.38ft: SURVEY@6923 inc 1.5 70.3  
6972.38ft: ZWOB from SideKick sk-04-09-1056  
6973.85ft: SURVEY@6923 inc 1.5 azm 70.3

6995.64ft: VIS 46/WT 9.8

7064.08ft: SURVEY@7015 inc 1.2 azm 82  
7064.08ft: Connection at 7065.4  
7067.32ft: VIS 41/WT 9.7

7086.84ft: ZDiffPressure from SideKick sk-04-09-1056  
7086.84ft: ZWOB from SideKick sk-04-09-1056

7093.83ft: MUD WT.-9.7 VIS-45 PH-9.1



7155.15ft: MUD WT.-9.75 VIS-45 PH-9.5 SURVEY @ 7107 .8 inc 208.2  
azm  
7155.15ft: Connection at 7157.0  
7155.15ft: ZDiffPressure from SideKick sk-04-09-1056

7246.33ft: MUD WT.-9.75 VIS-45 PH-9.6 H2O- 0  
7246.33ft: SURVEY @ 7198 .8 inc 220.6 azm  
7246.33ft: Connection at 7248.4  
7246.33ft: ZDiffPressure from SideKick sk-04-09-1056



7315.52ft: MUD WT.-9.85 VIS-46 PH-9.6 DW/H20- 4GPM

7337.93ft: SURVEY @ 7289 1.0 inc 217.5 azm  
7337.93ft: Connection at 7340.0  
7337.93ft: ZDiffPressure from SideKick sk-04-09-1056

7397.08ft: MUD WT.-9.8 VIS-44 PH-9.6 H20- 4 GPM

7428.97ft: SURVEY @ 7381 1.2 INC 222.2 AZM  
7428.97ft: Connection at 7431.3  
7428.97ft: ZDiffPressure from SideKick sk-04-09-1056

7454.04ft: ZDiffPressure from SideKick sk-04-09-1056  
7454.04ft: ZWOB from SideKick sk-04-09-1056

7458.37ft: MUD WT.-9.8 VIS-43 PH-9.5 DWH20- 4GPM

7520.11ft: MUD WT.-9.8 VIS-45 PH-9.3 DWH20-8 GPM  
7520.11ft: SURVEY @ 7472 .5 inc 312.6 azm  
7520.11ft: Connection at 7522.9  
7520.11ft: ZDiffPressure from SideKick sk-04-09-1056

21:00 7320

21:08 7330

21:27 7340

21:33 7350

21:38 7360

21:43 7370

21:48 7380

21:54 7390

21:58 7400

22:04 7410

22:11 7420

22:28 7430

22:40 7440

22:53 7450

23:07 7460

23:15 7470

23:24 7480

23:32 7490

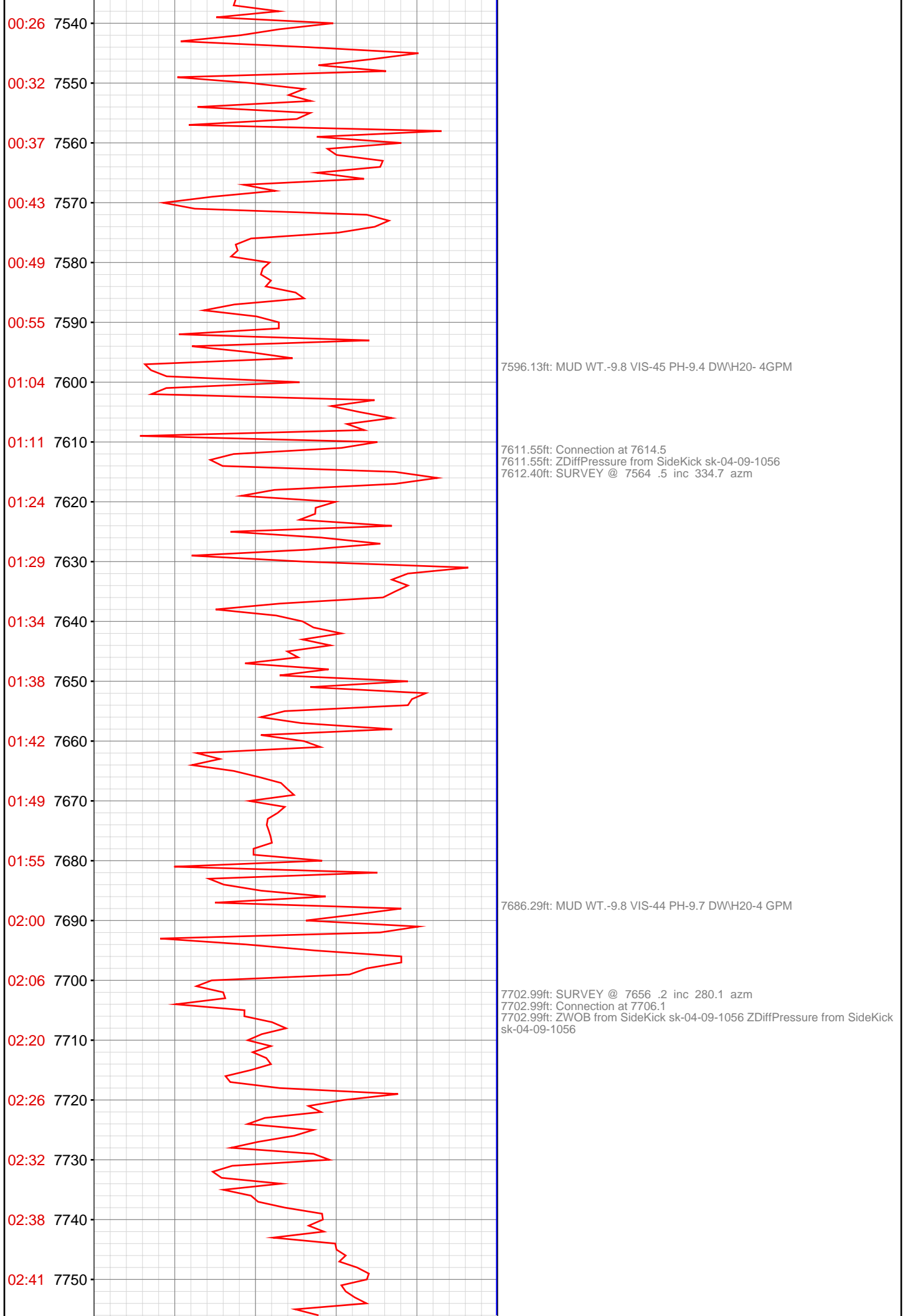
23:39 7500

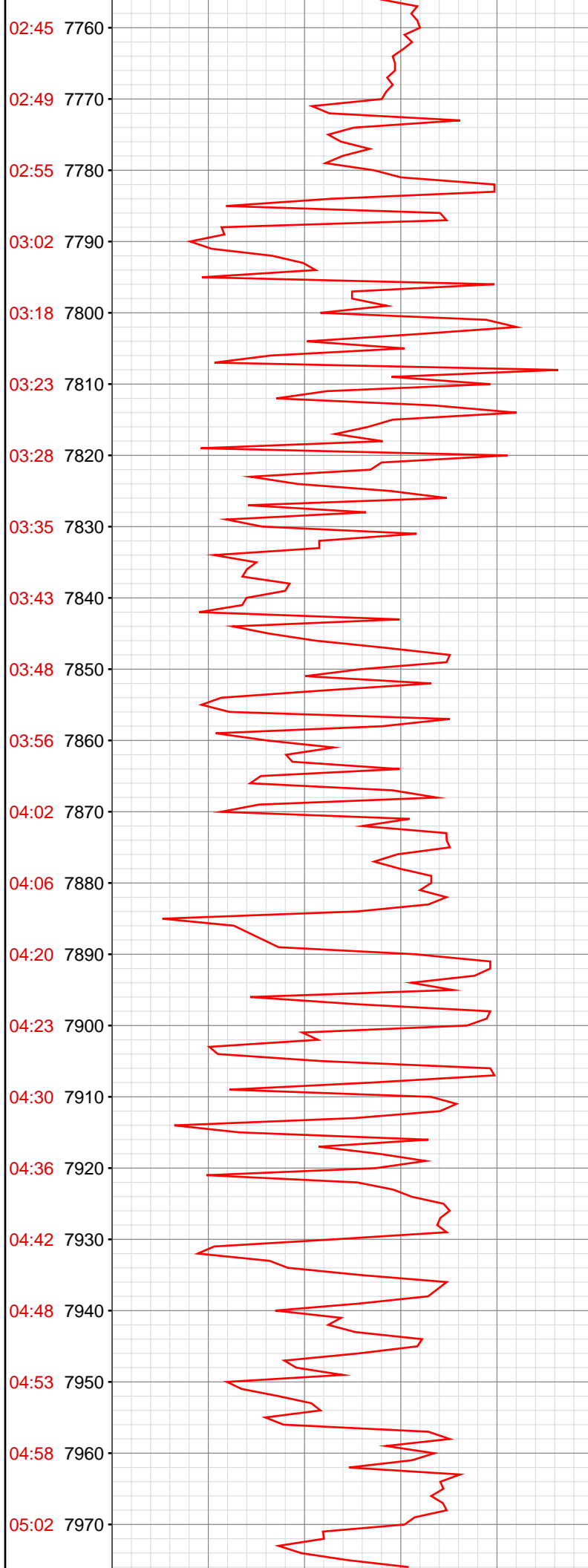
23:46 7510

23:54 7520

Sep 24, 2013

00:20 7530





7787.27ft: MUD WT.-9.8 VIS-45 PH-9.5 DWH20-4 GPM

7794.29ft: Connection at 7797.4  
7794.29ft: ZDiffPressure from SideKick sk-04-09-1056  
7796.82ft: SURVEY @ 7747 .2 inc 212.2 azm

7864.96ft: MUD WT.-9.8 VIS-46 PH-9.4 DWH20-4 GPM

7884.81ft: SURVEY @ 7838 .4 inc 230.5 azm  
7884.81ft: ZDiffPressure from SideKick sk-04-09-1056  
7884.88ft: Connection at 7888.8  
7885.99ft: IN TALLY: HOLE DEPTH SET TO 7888.8

7952.23ft: MUD WT.-9.9 VIS-46 PH-9.4 DWH20- 7 GPM

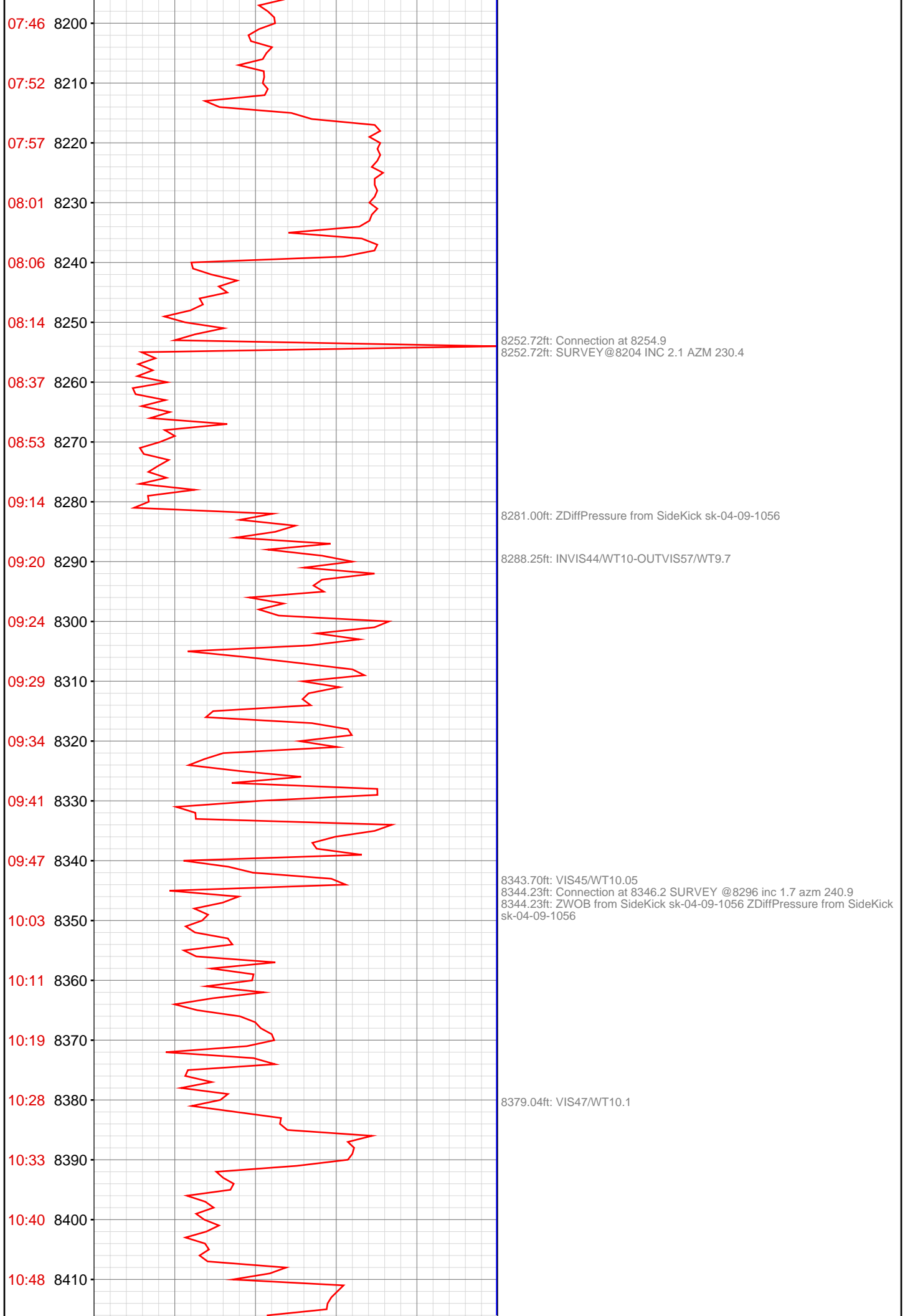
7978.97ft: SURVEY@7930 inc .8 azm 231.2  
7978.97ft: ZWOB from SideKick sk-04-09-1056 ZDiffPressure from SideKick  
sk-04-09-1056  
7979.30ft: Connection at 7980.4

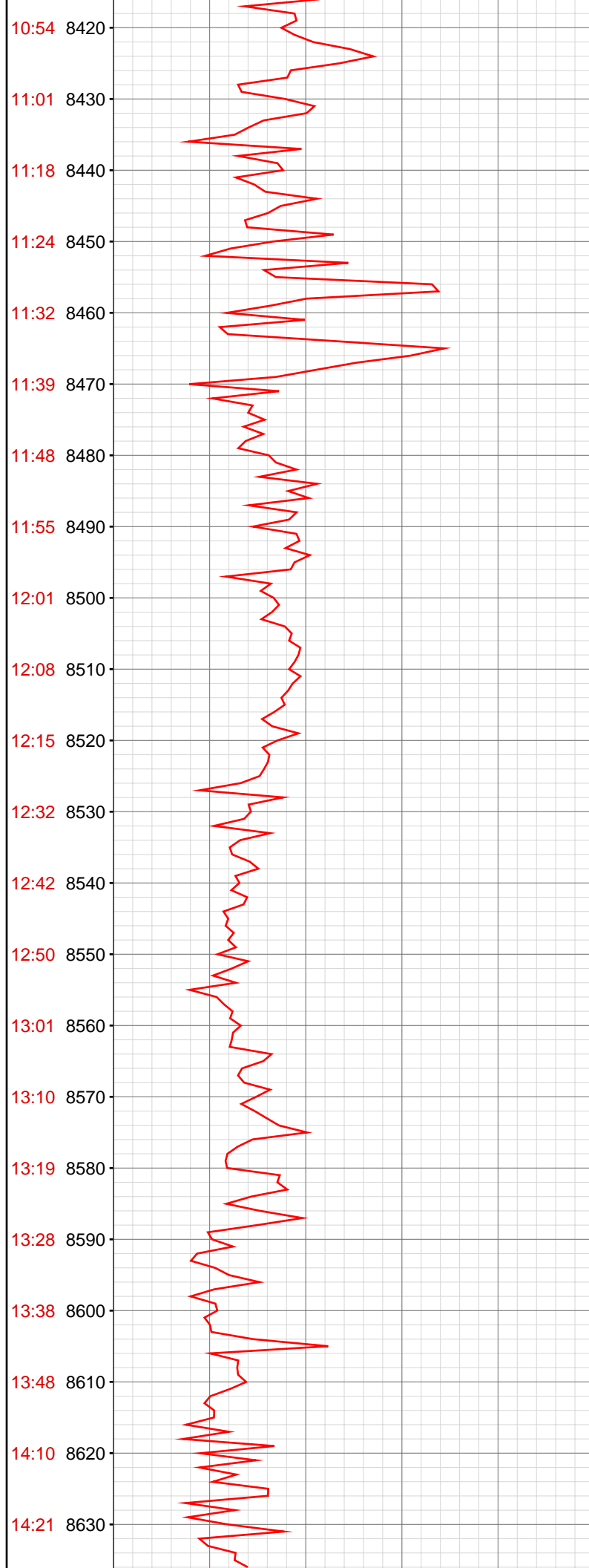
8047.01ft: VIS48/WT9.9

8070.24ft: Connection at 8072.1  
8070.24ft: SURVEY@8022 inc 1 azm 231.3

8161.48ft: SURVEY@8113 inc 1.6 azm 231.7  
8161.48ft: Connection at 8163.7  
8161.48ft: ZWOB from SideKick sk-04-09-1056 ZDiffPressure from SideKick  
sk-04-09-1056

8176.58ft: VIS45/WT9.9





8435.30ft: Connection at 8437.8  
8435.30ft: SURVEY@8389 inc 2.1 azm 244.7  
8435.30ft: ZWOB from SideKick sk-04-09-1056 ZDiffPressure from SideKick sk-04-09-1056  
8435.30ft: VIS46/WT10.1

8495.41ft: PUMP OUT CELLAR

8526.18ft: Connection at 8529.3 SURVEY@8479 inc 2.4 azm 246.6  
8526.18ft: ZWOB from SideKick sk-04-09-1056 ZDiffPressure from SideKick sk-04-09-1056

8536.35ft: VIS47/WT10.1

8597.57ft: VIS48/WT10.1

8617.29ft: Connection at 8620.7  
8617.29ft: SURVEY@8570 inc 2.5 azm 247.4

