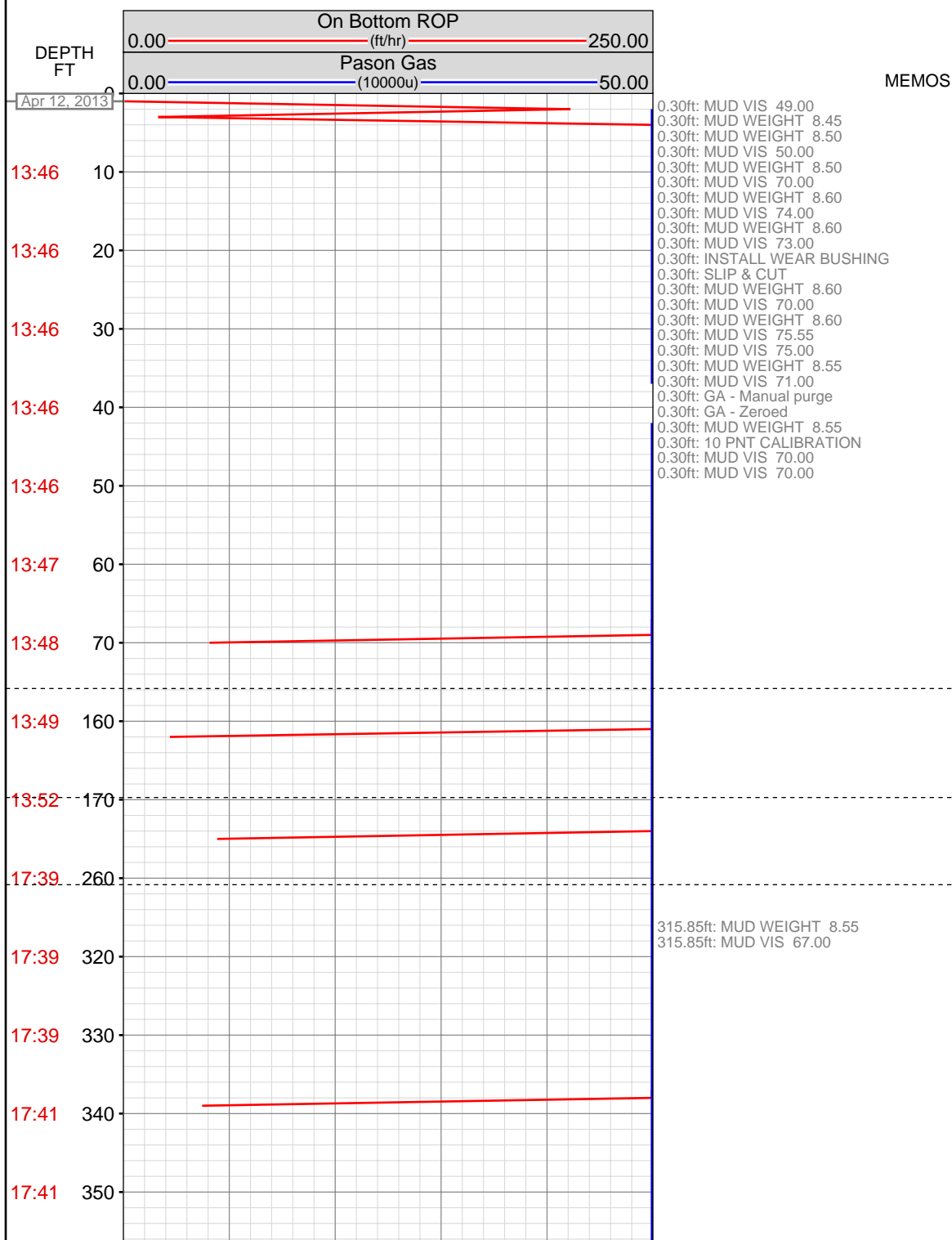


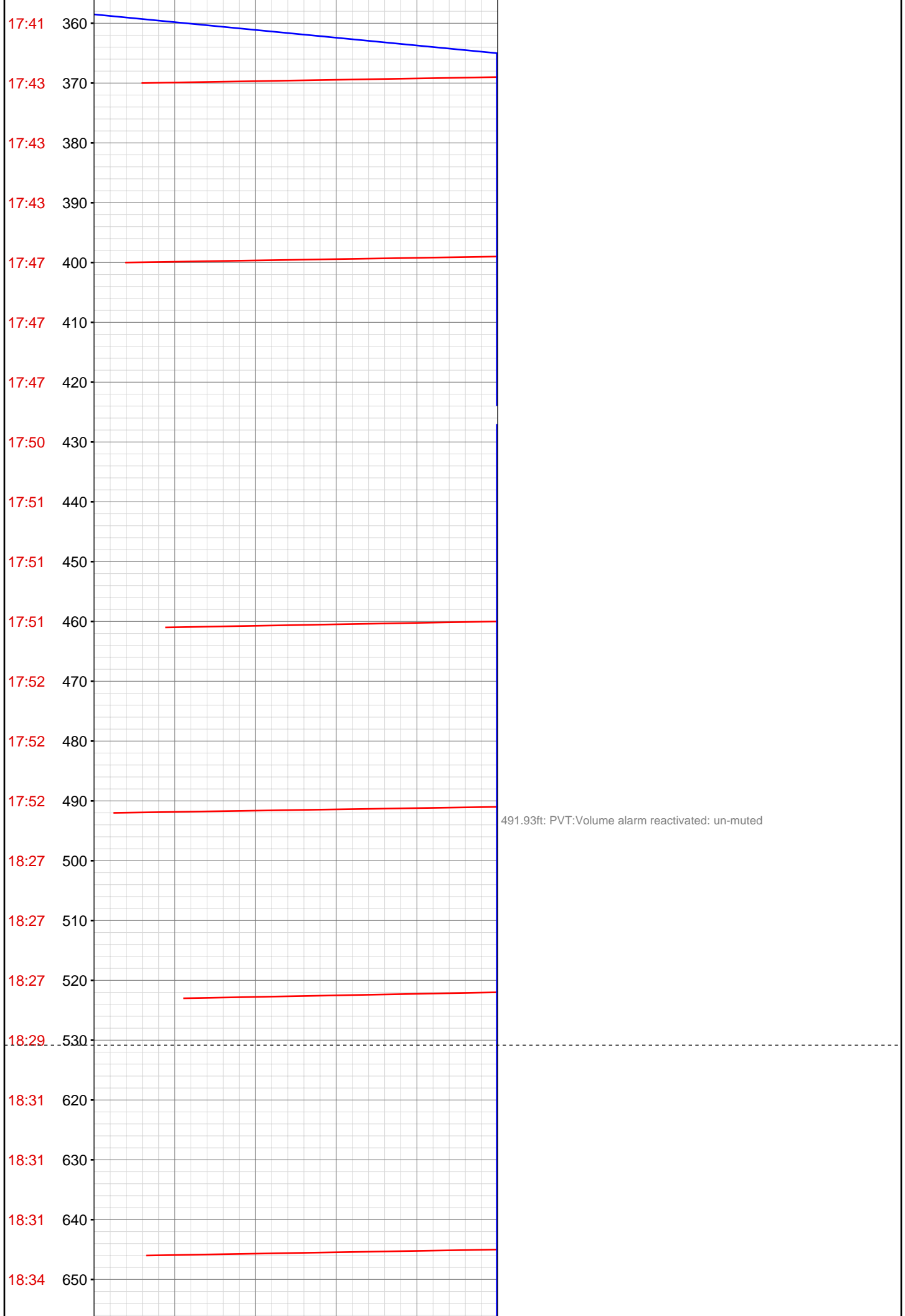
DataHub EDR Log

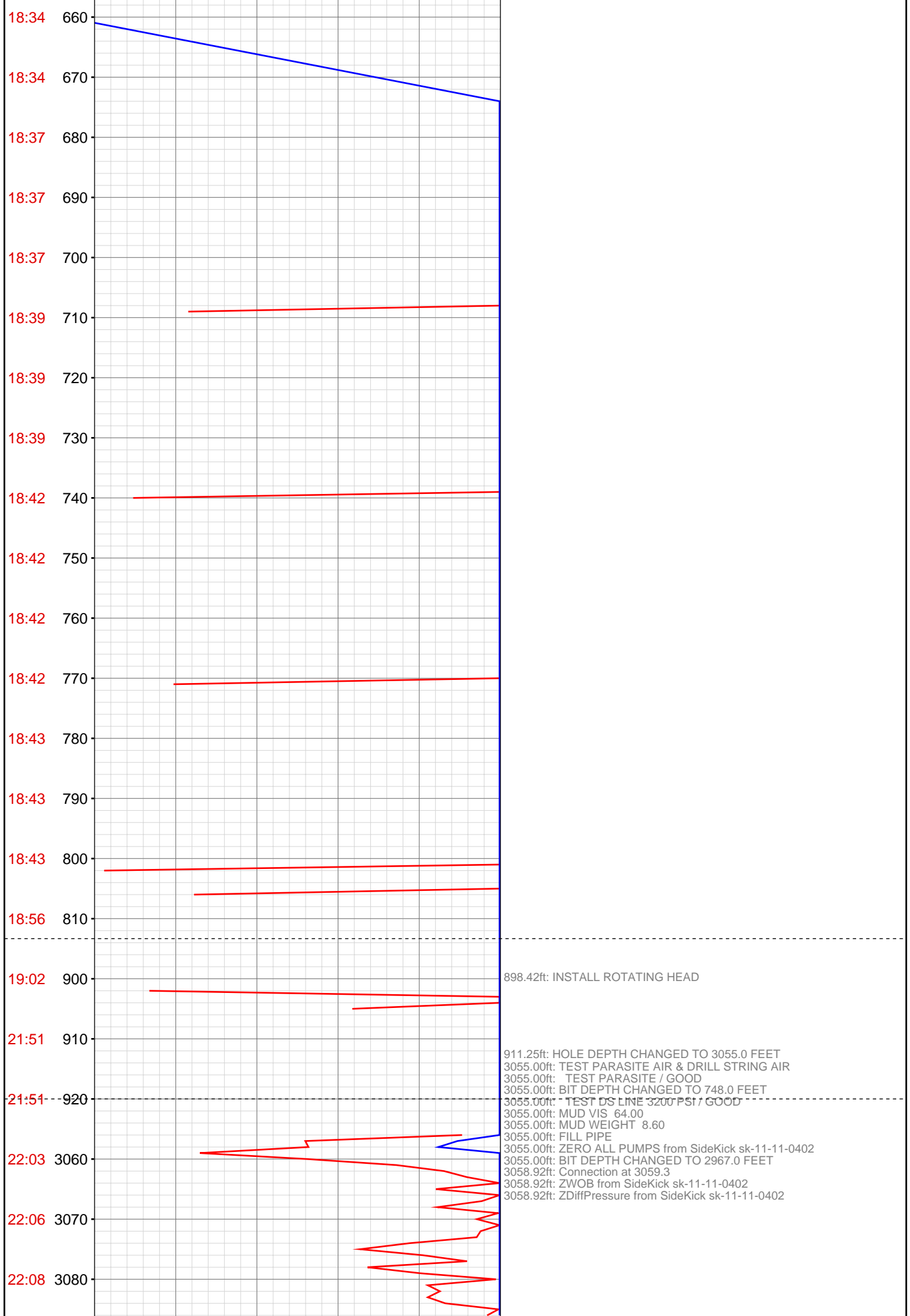
Mon Apr 22, 2013 11:45:47
Well Dossier 1365724836
Greg Veregin

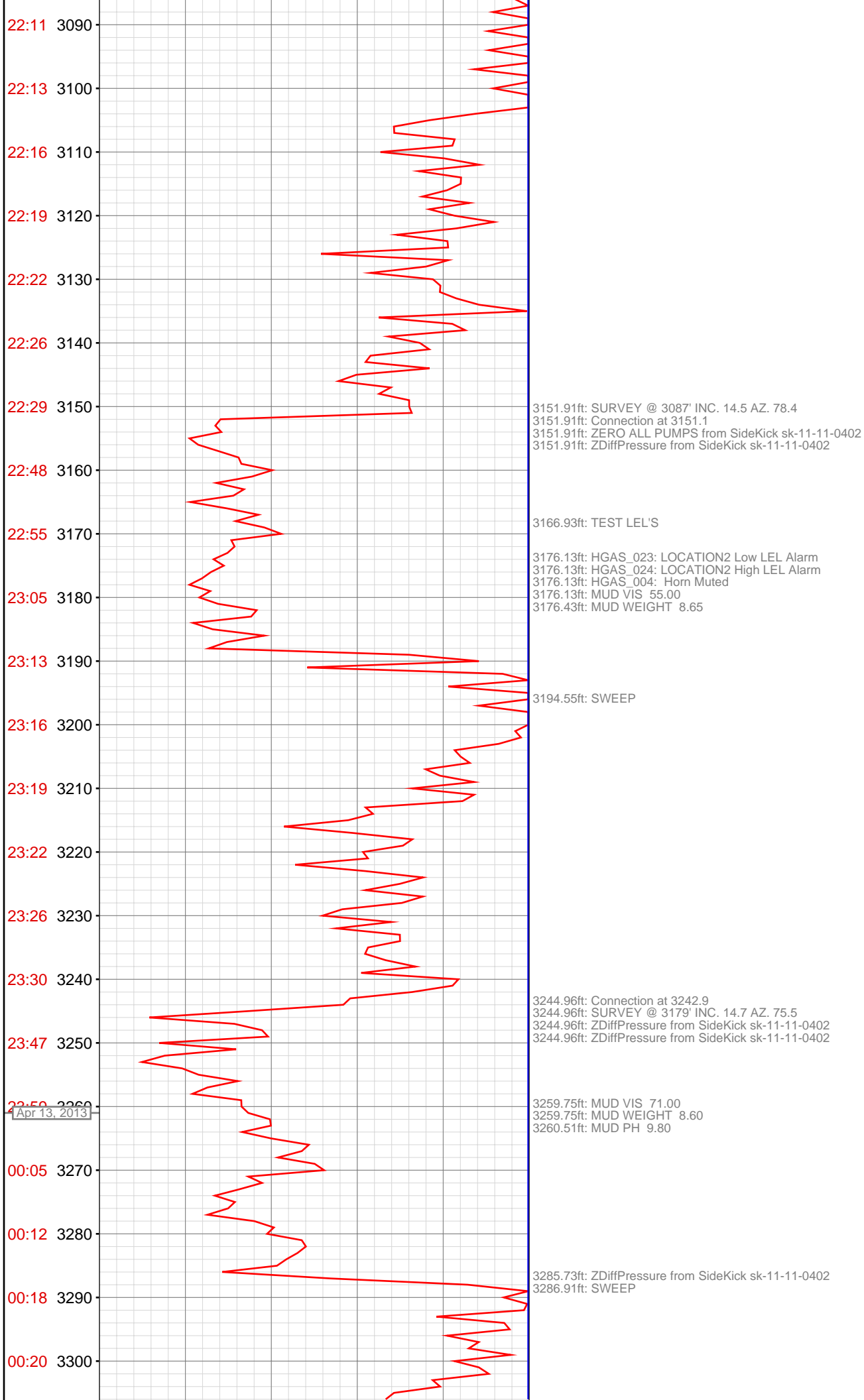
OPERATOR: EnCana Oil & Gas (USA), Inc.
WELL: SG 8509C-24 L24 496
FIELD:
LOCATION: SEC 24 TWP 4S RNG 96W
COUNTRY: USA
RIG: Pat-UTI 330

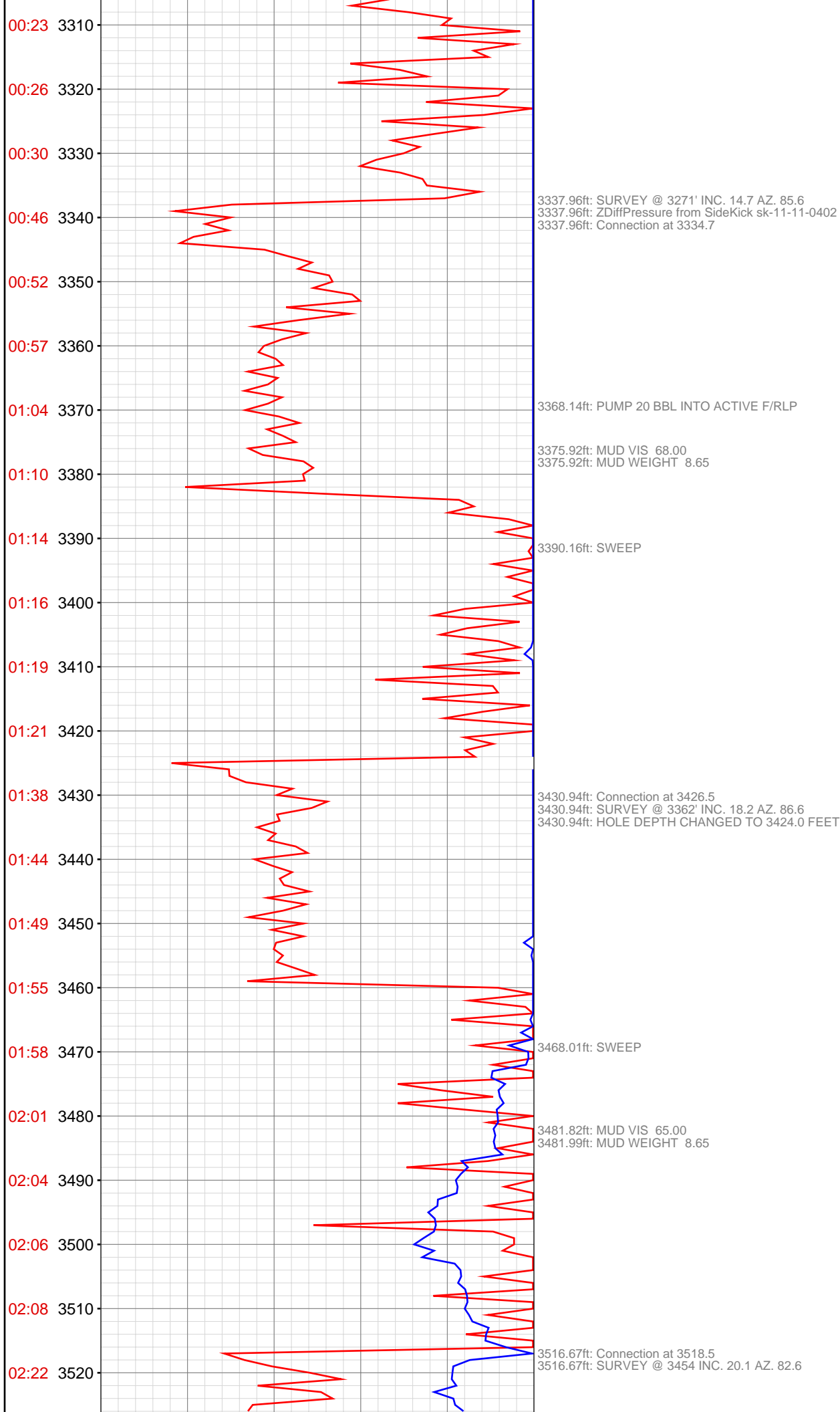
CONTRACTOR: Patterson-UTI Drilling Company
UNIQUE WELL ID: 0504521165
SPUD DATE: Apr 12, 2013 22:00
RELEASE DATE: Apr 22, 2013 02:00

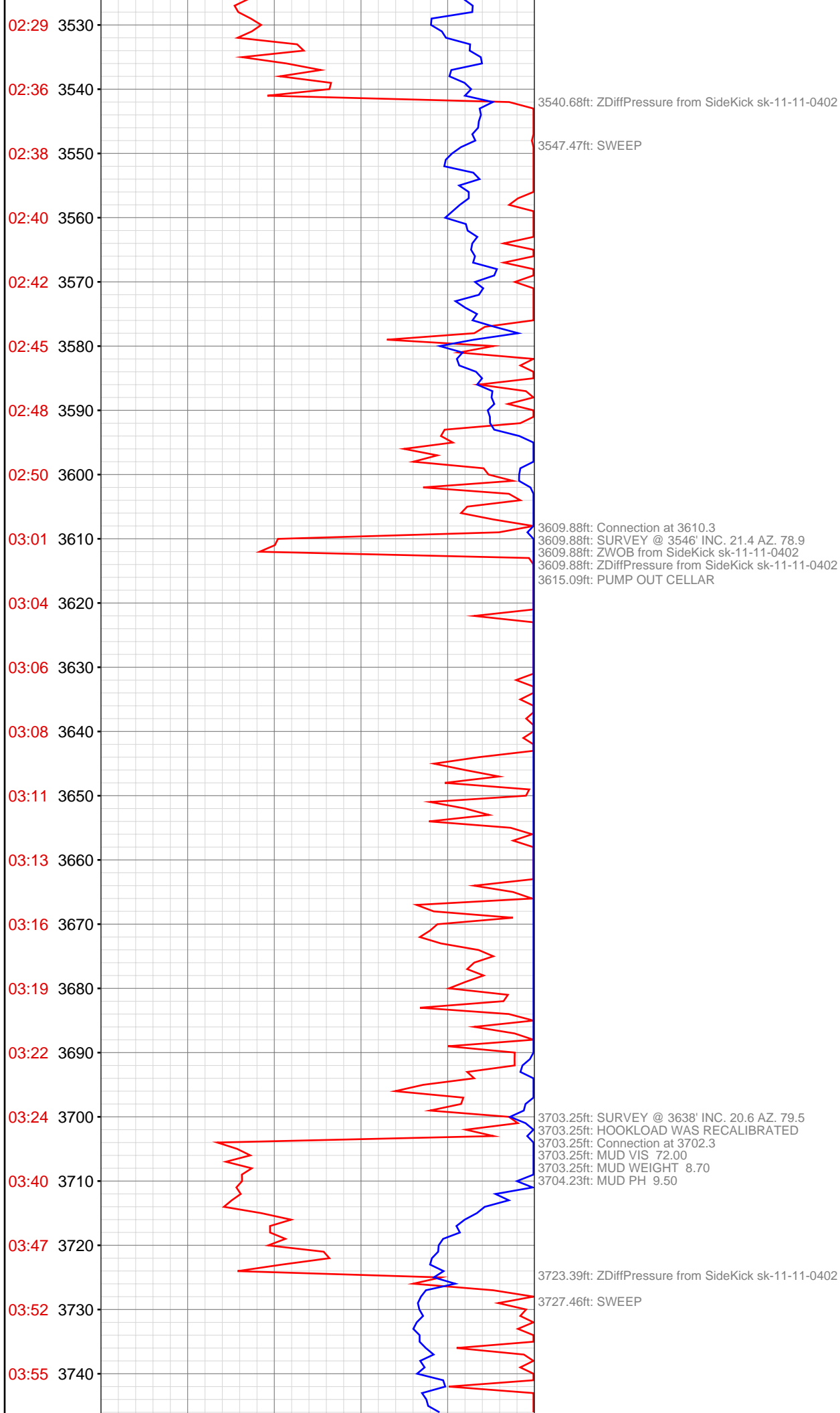


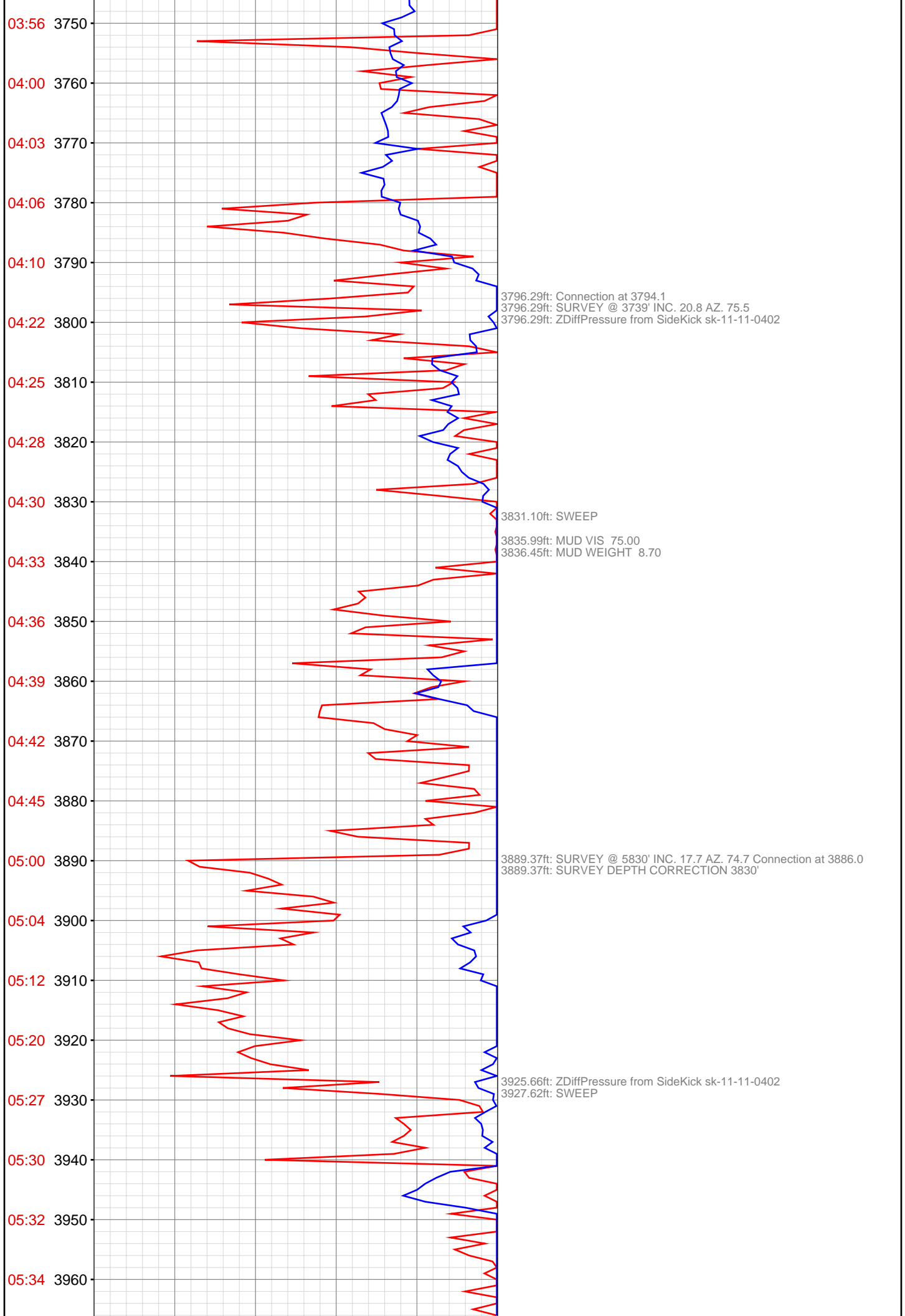


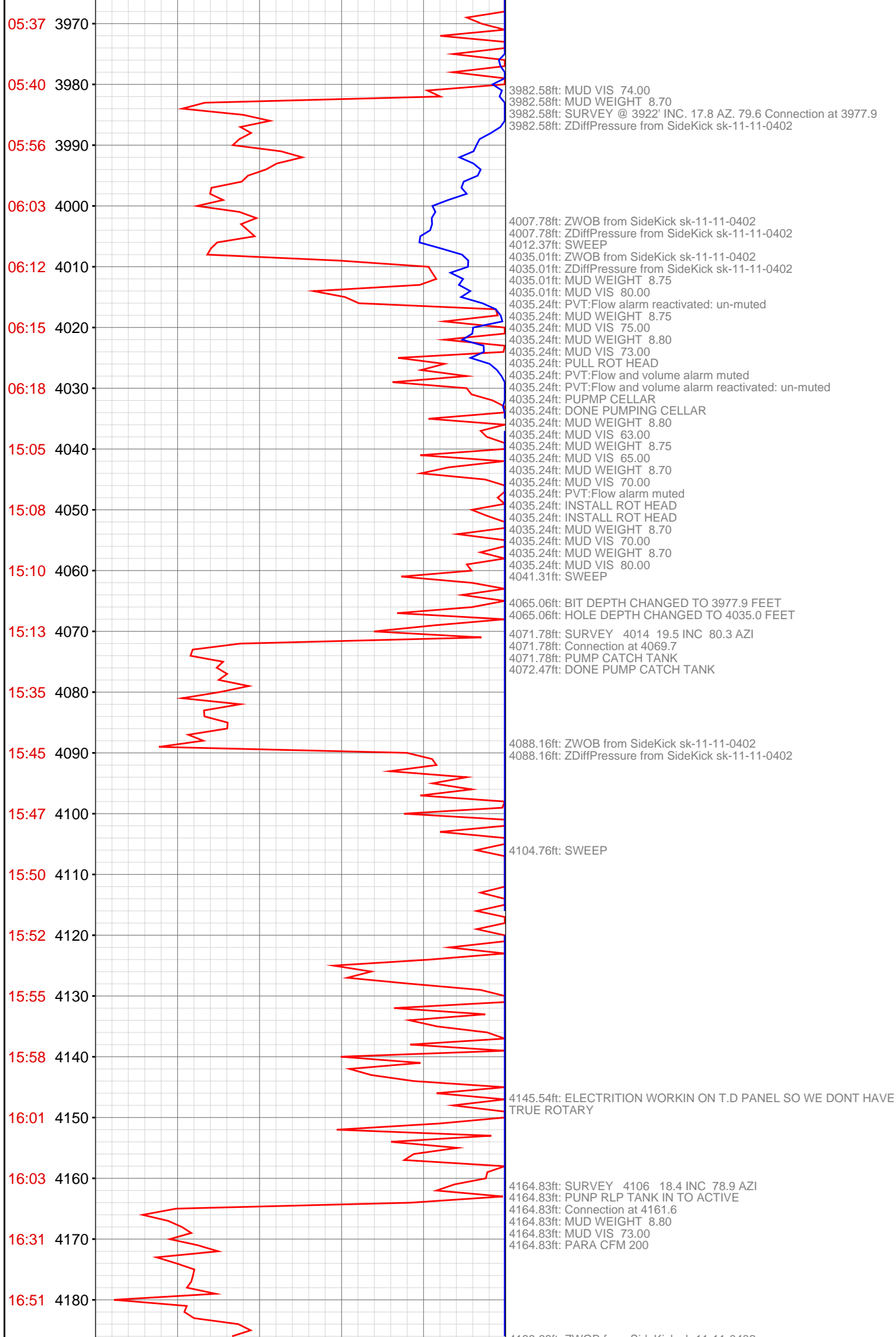












4188.68ft: ZWOB from SideKick sk-11-11-0402
4188.68ft: ZDiffPressure from SideKick sk-11-11-0402
4188.68ft: MUD WEIGHT 8.85
4188.68ft: MUD VIS 73.00
4192.45ft: SWEEP

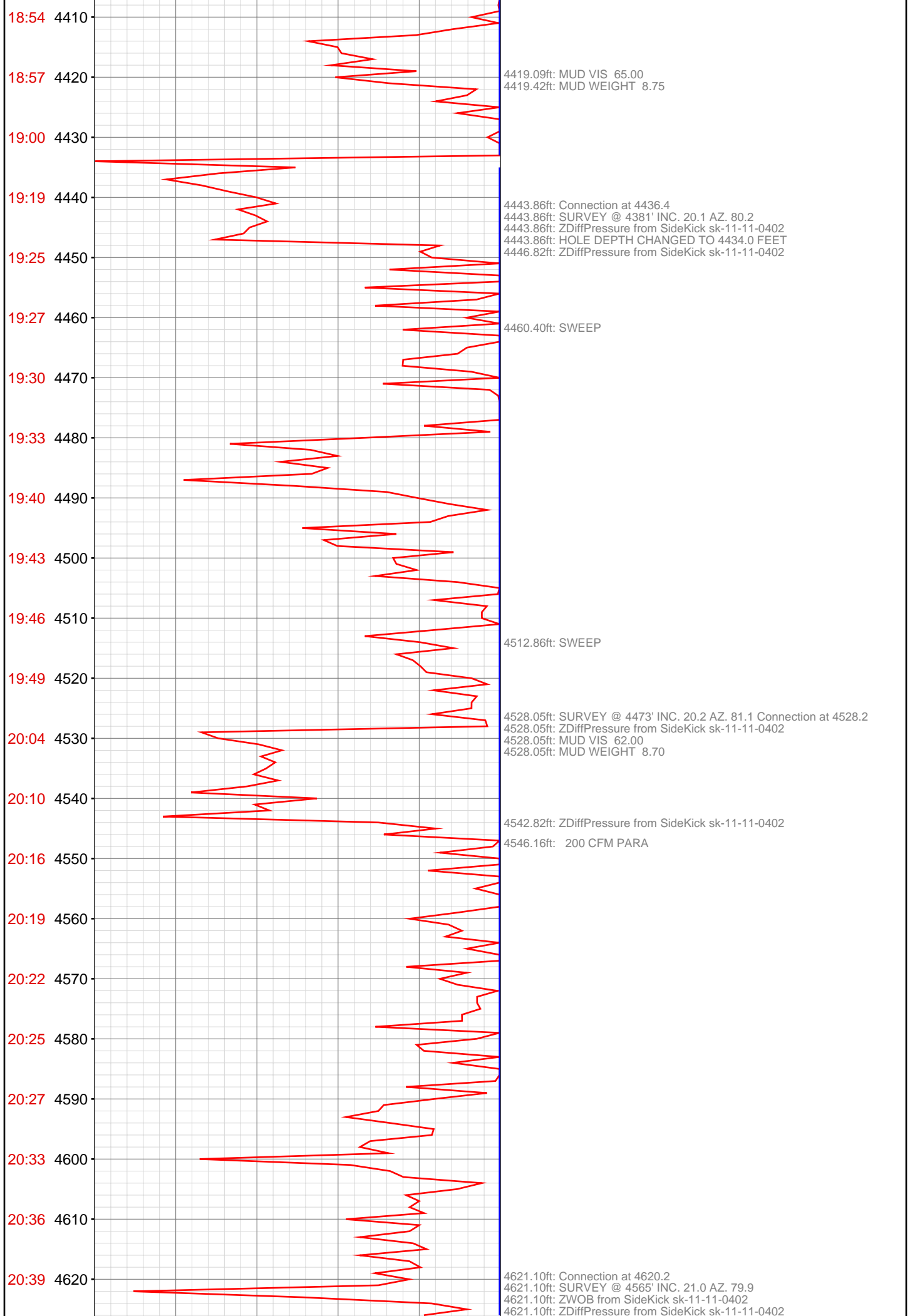
4257.81ft: SURVEY 4198 17 inc 79.6 azi
4257.81ft: Connection at 4253.6

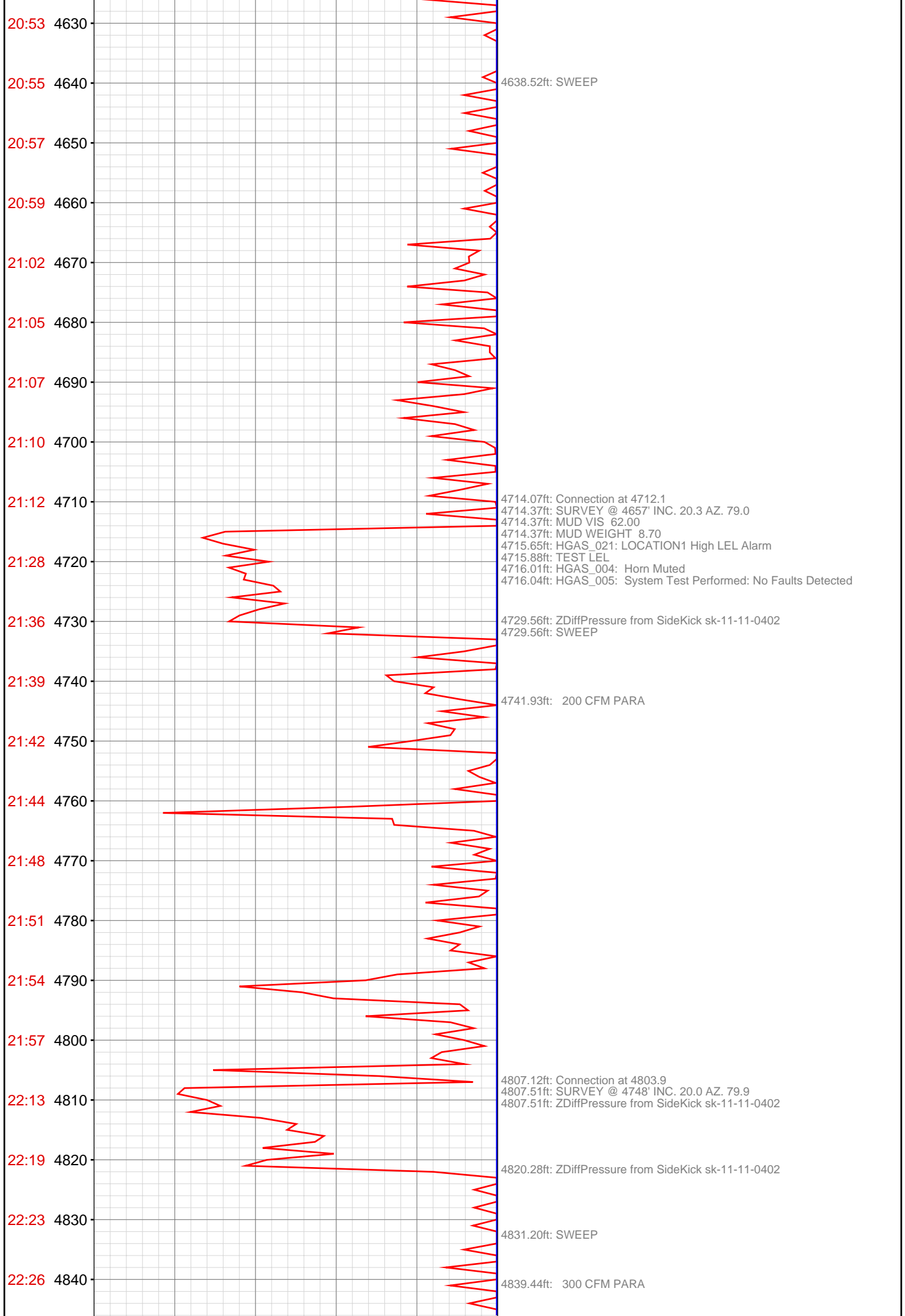
4274.87ft: AIR BYPASSED
4278.22ft: MUD WEIGHT 8.80
4278.41ft: MUD VIS 73.00

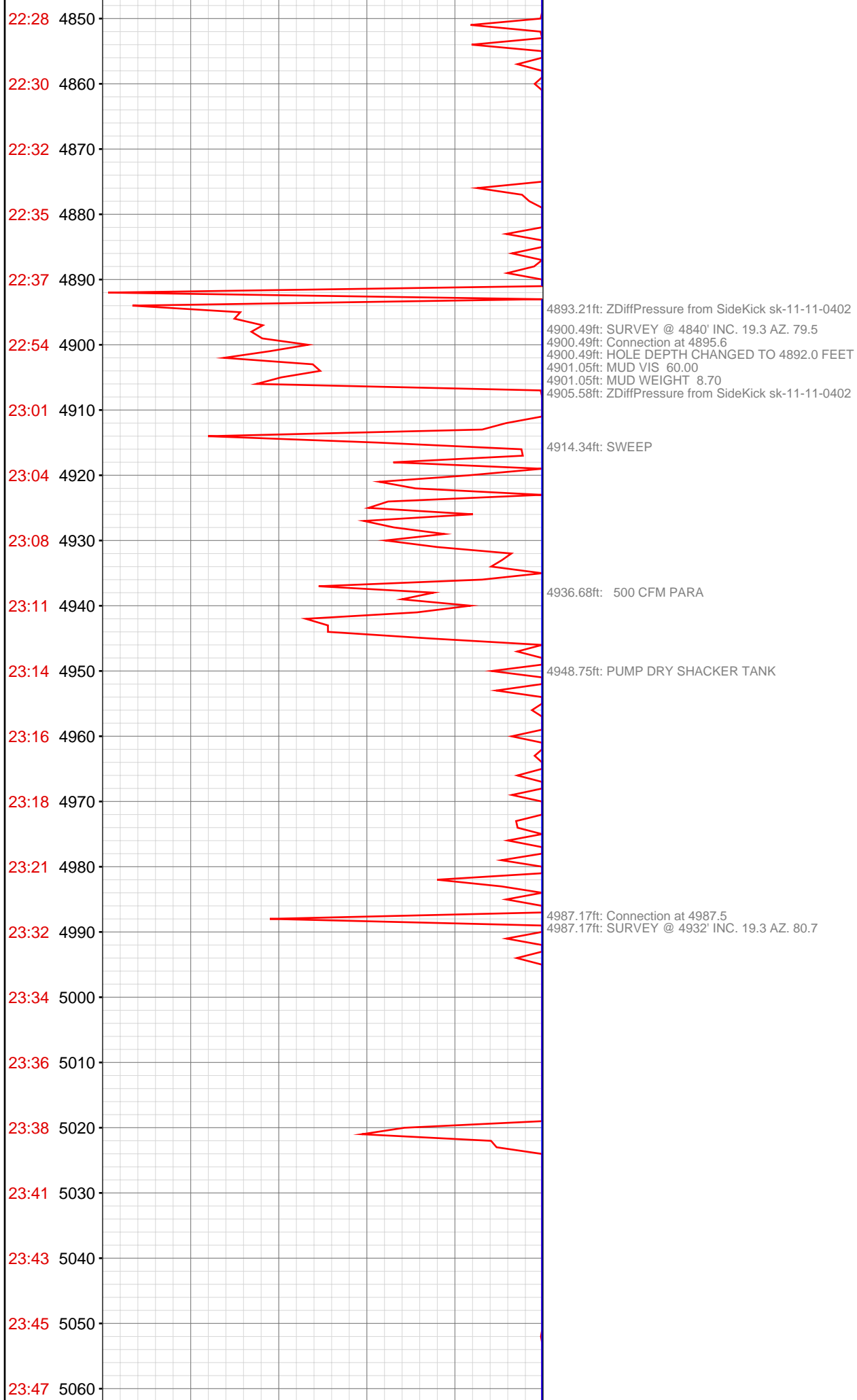
4350.95ft: SURVEY @ 4290' INC. 18.6 AZ. 80.6 Connection at 4345.5

4370.57ft: ZDiffPressure from SideKick sk-11-11-0402

4397.44ft: SWEEP







23:49 5070
00:02 5080
Apr 14, 2013
00:07 5090
00:12 5100
00:14 5110
00:17 5120
00:20 5130
00:23 5140
00:25 5150
00:28 5160
00:31 5170
00:42 5180
00:44 5190
00:46 5200
00:49 5210
00:51 5220
00:54 5230
00:57 5240
00:59 5250
01:02 5260
01:22 5270
01:28 5280

5077.89ft: Connection at 5079.4
5080.45ft: SURVEY @ 5024' INC. 18.6 AZ. 80.1
5080.45ft: MUD VIS 57.00
5080.45ft: MUD WEIGHT 8.75
5080.45ft: ZDiffPressure from SideKick sk-11-11-0402

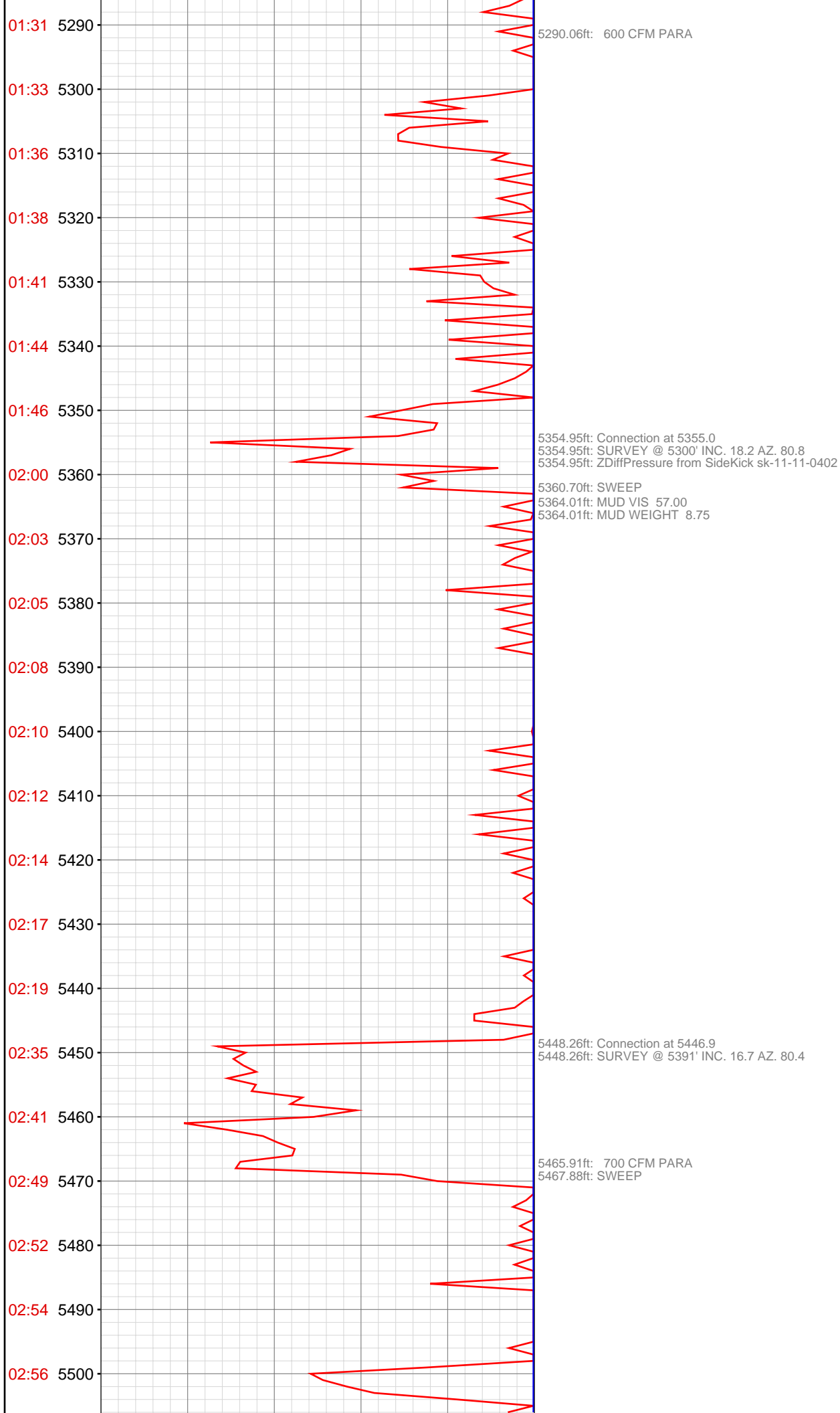
5102.56ft: SWEEP

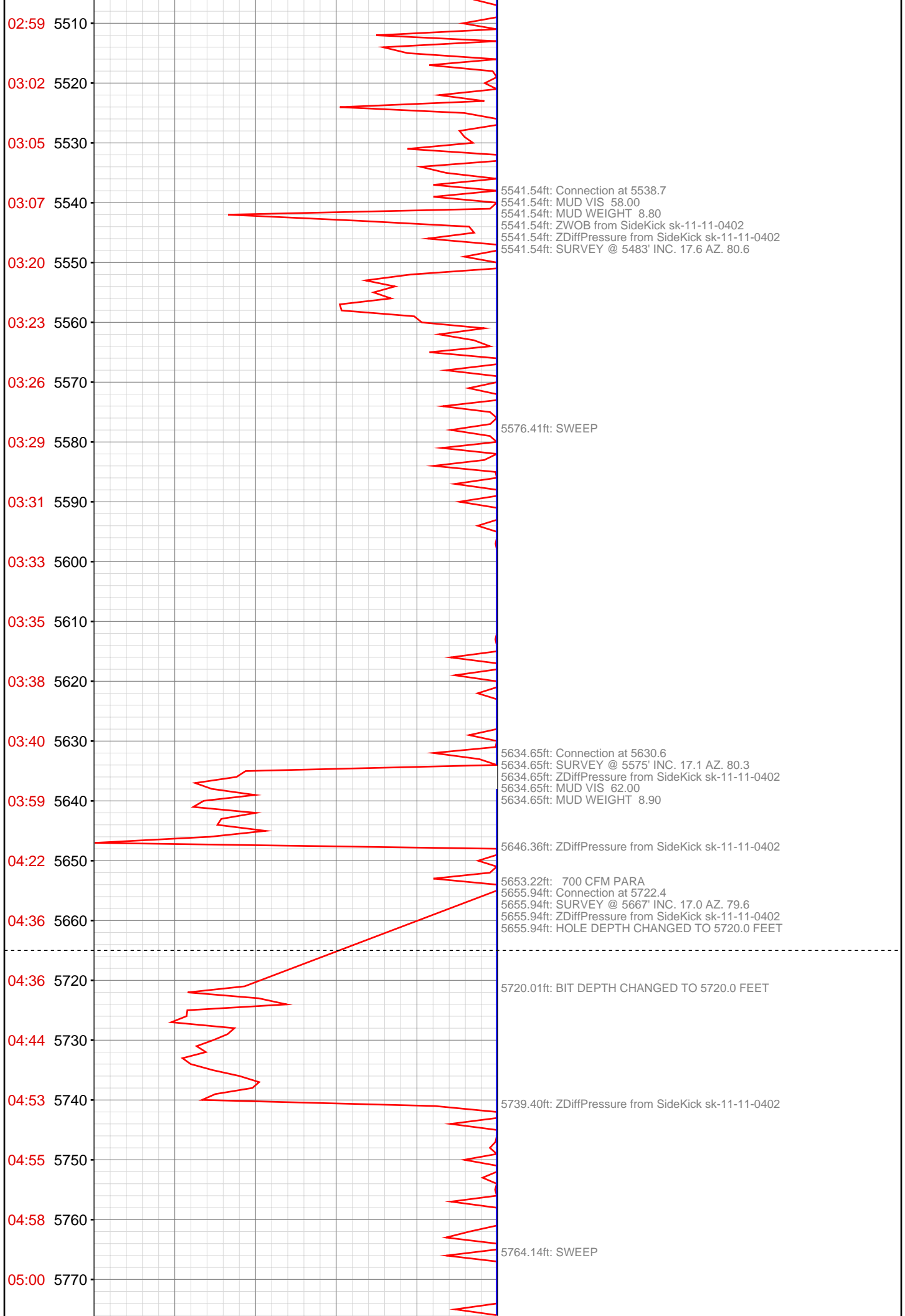
5172.97ft: Connection at 5171.2
5173.36ft: SURVEY @ 5116' INC. 19.1 AZ. 78.9
5173.36ft: ZWOB from SideKick sk-11-11-0402

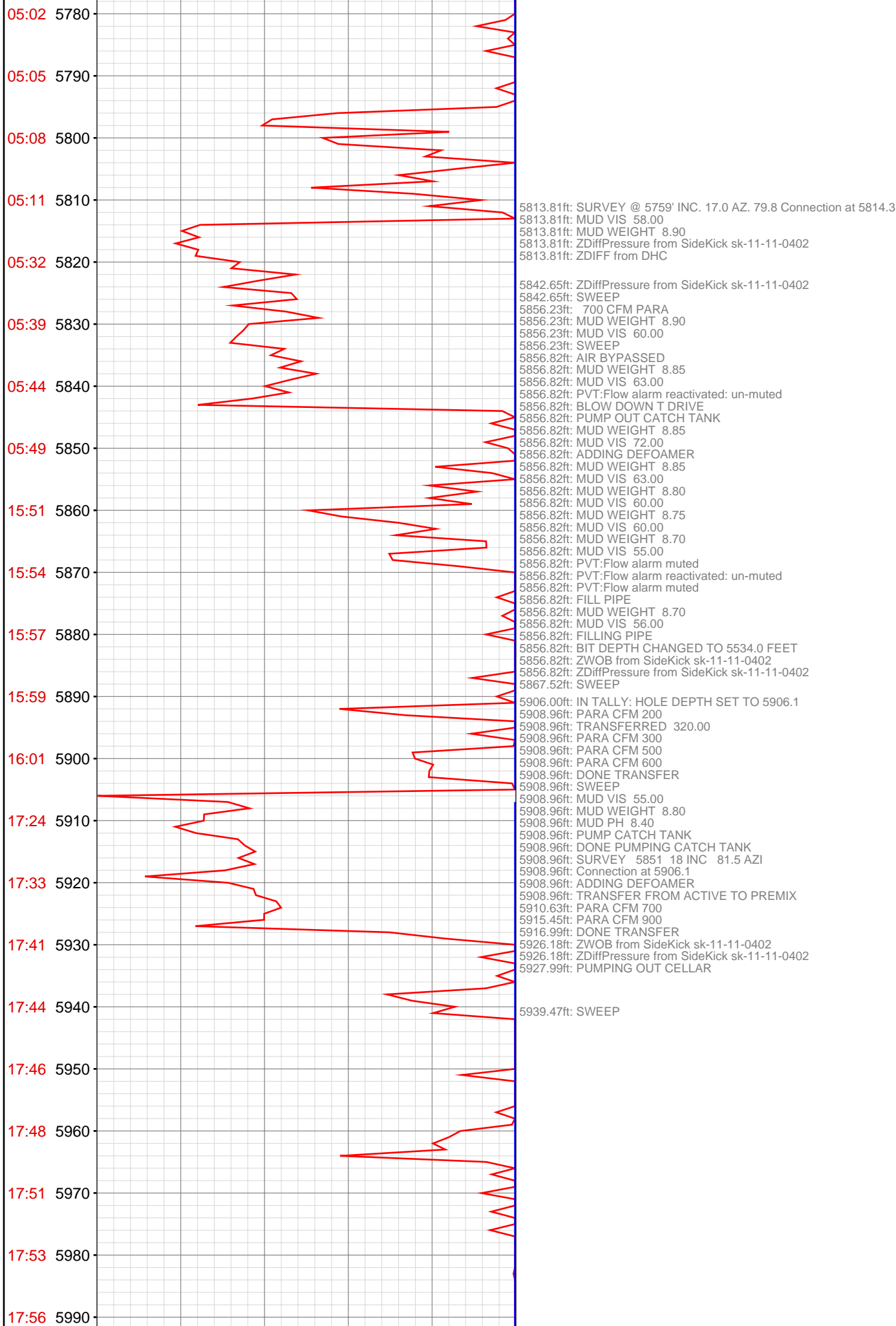
5196.39ft: PUMP OUT CATCH TANK
5200.30ft: SWEEP

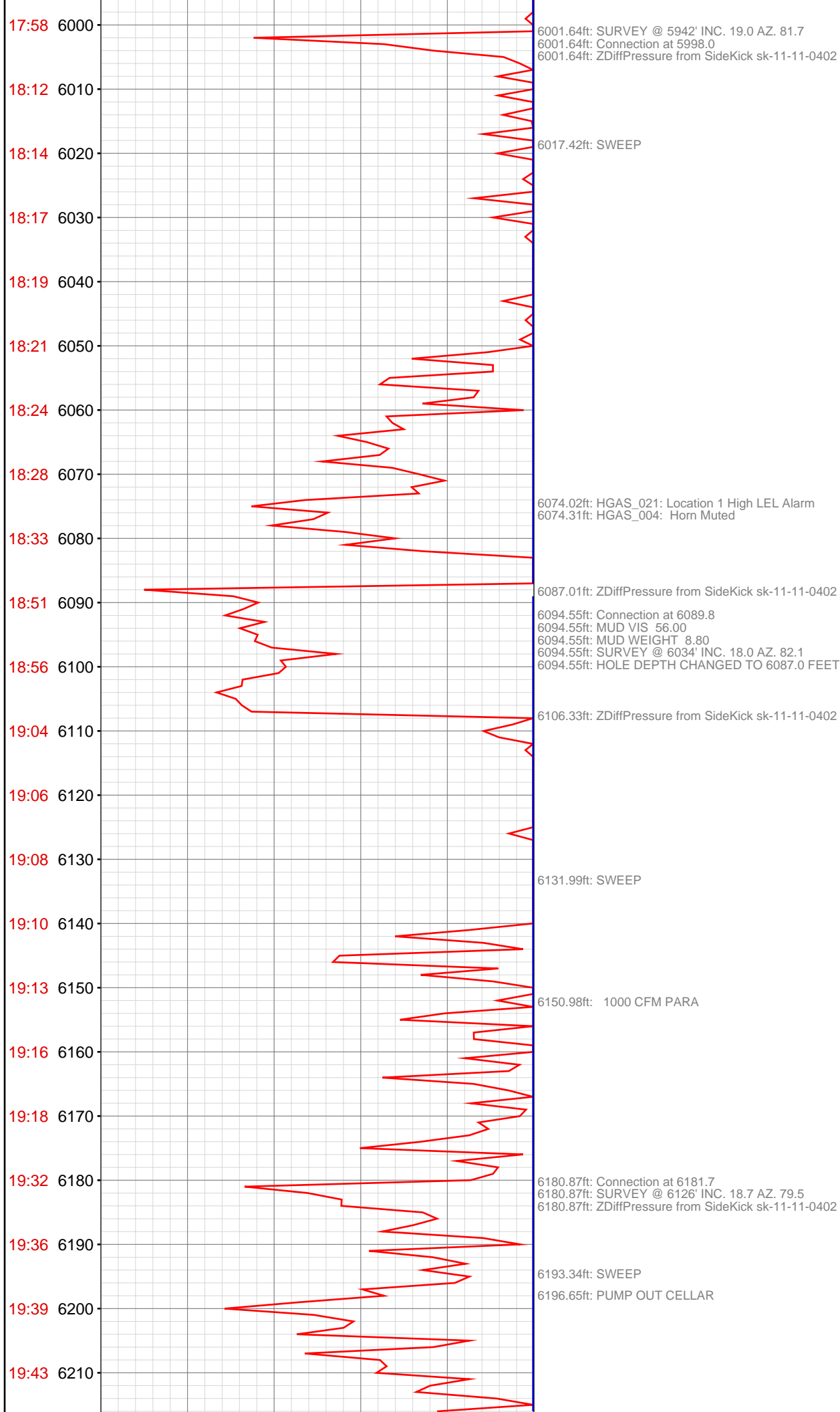
5260.99ft: ZDIFF from DHC
5266.57ft: MUD VIS 58.00
5266.57ft: MUD WEIGHT 8.75
5266.57ft: Connection at 5263.1
5266.57ft: SURVEY @ 5208' INC. 18.2 AZ. 78.8
5266.57ft: ZDiffPressure from SideKick sk-11-11-0402

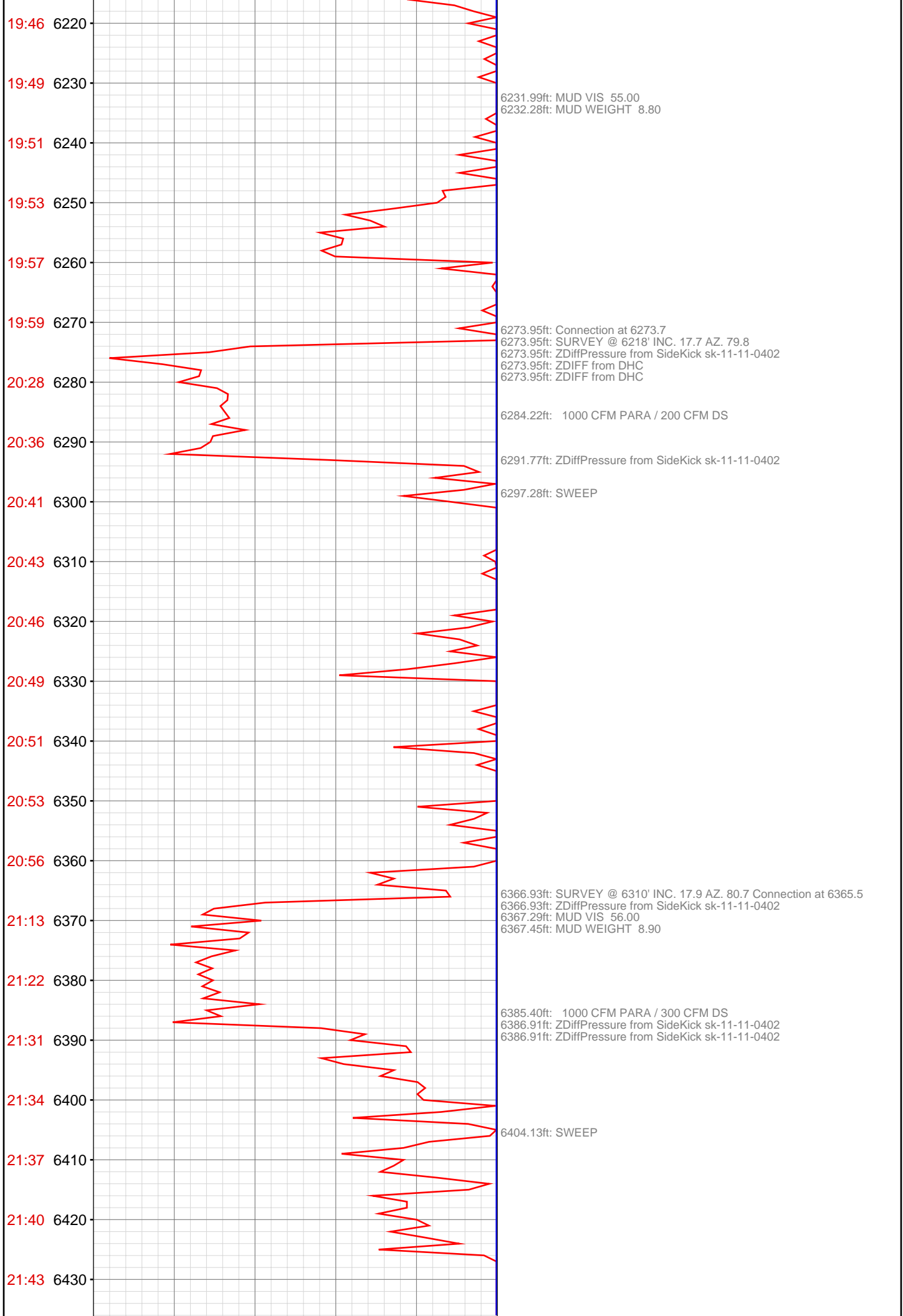
5276.48ft: ZDiffPressure from SideKick sk-11-11-0402
5276.48ft: SWEEP

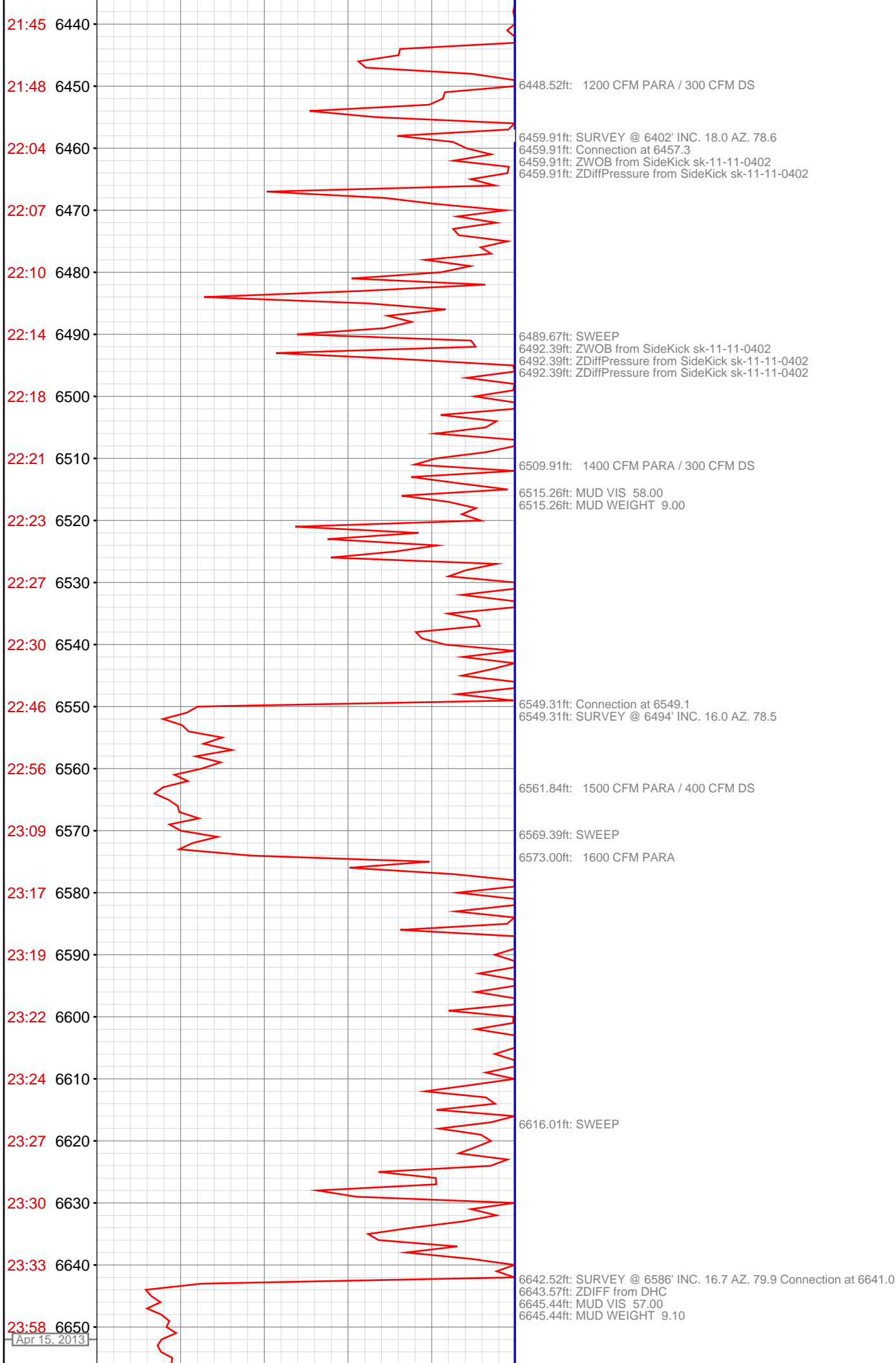


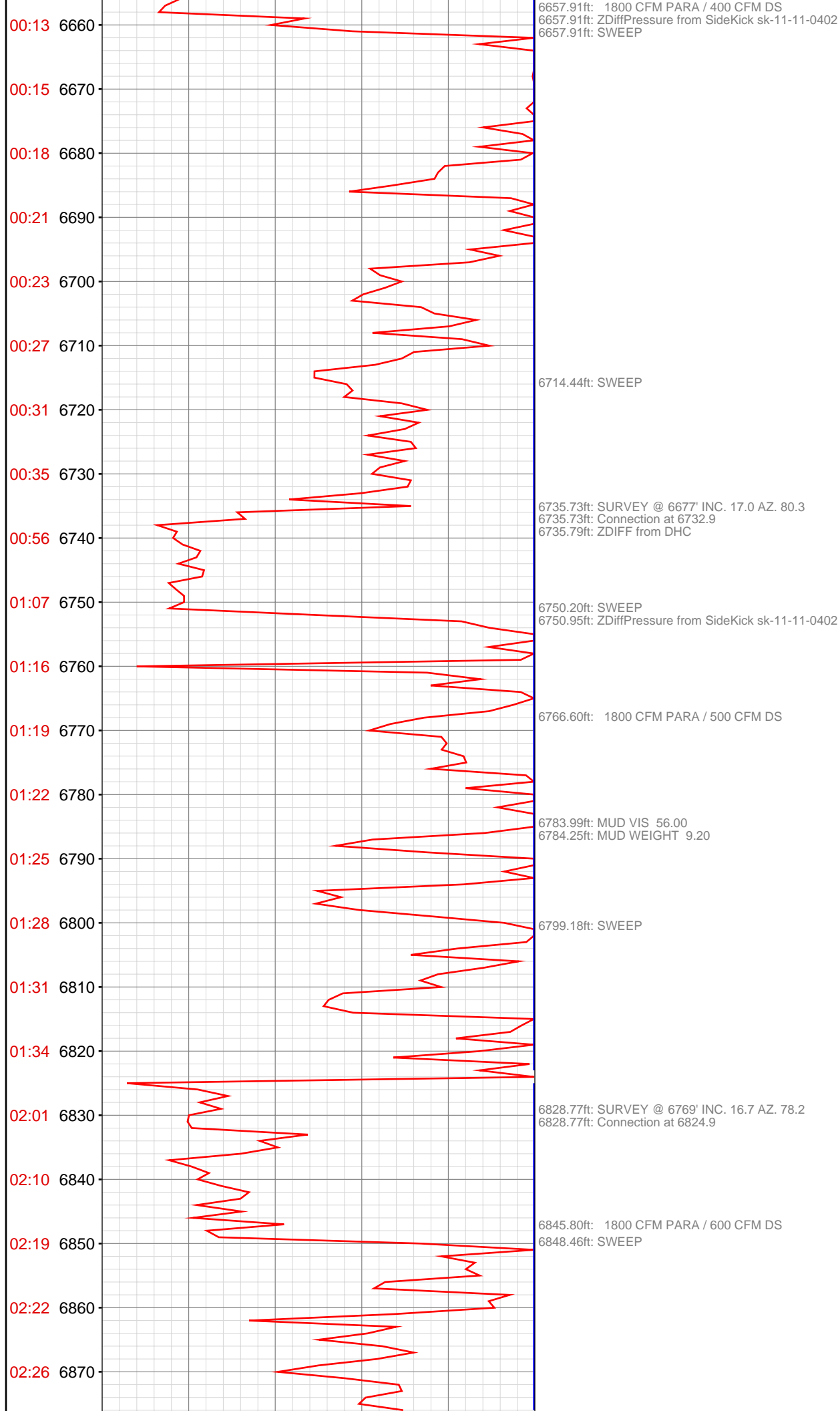


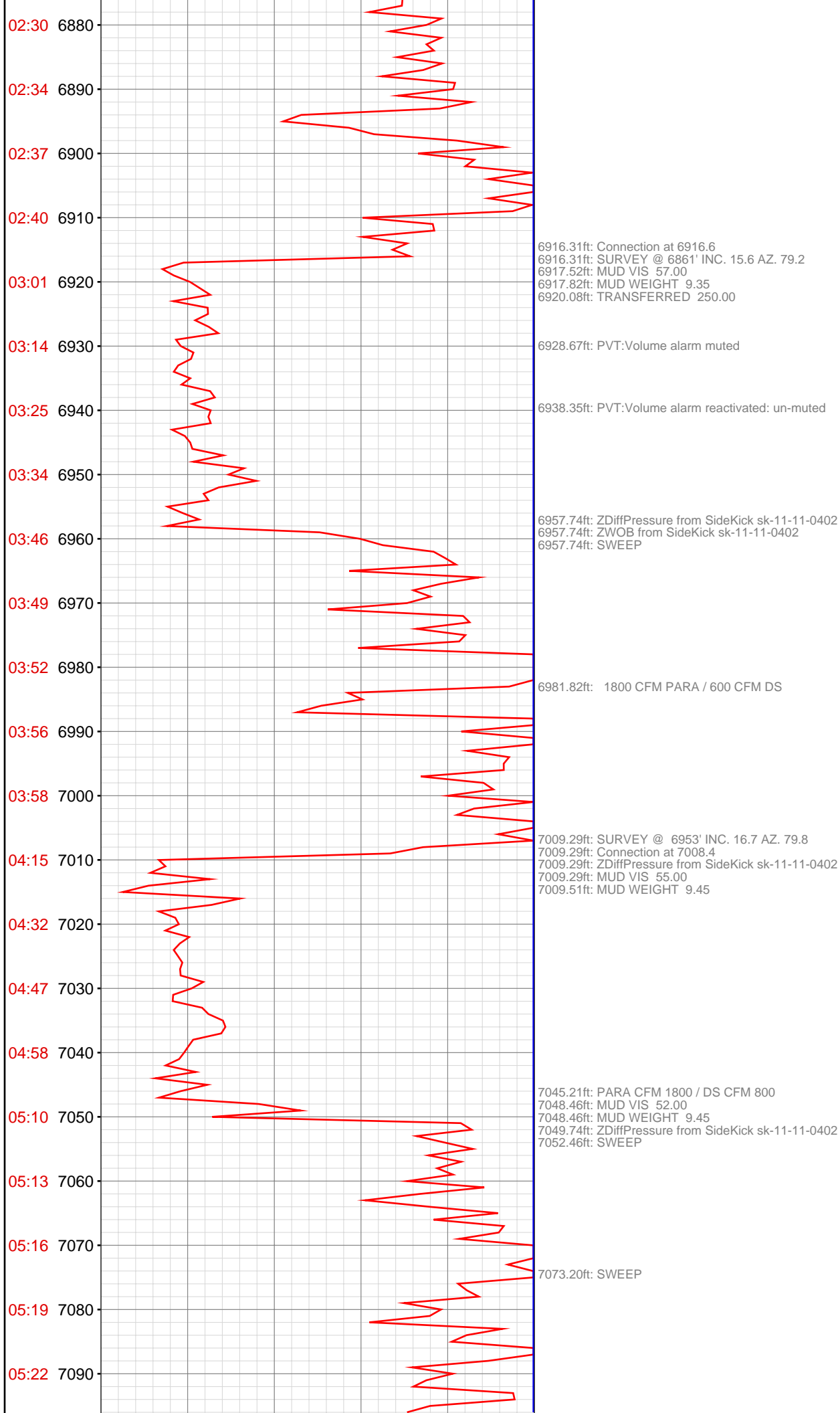


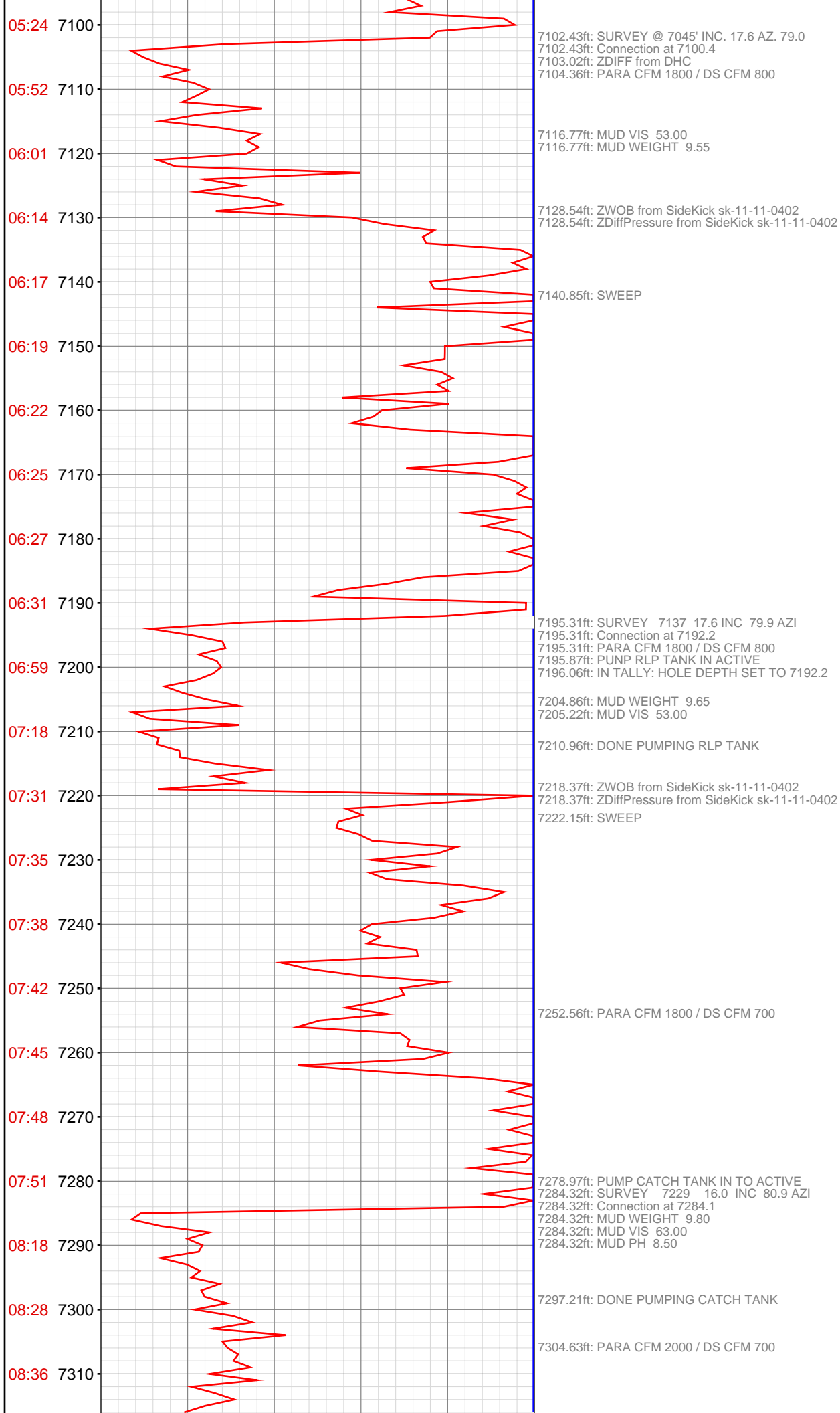


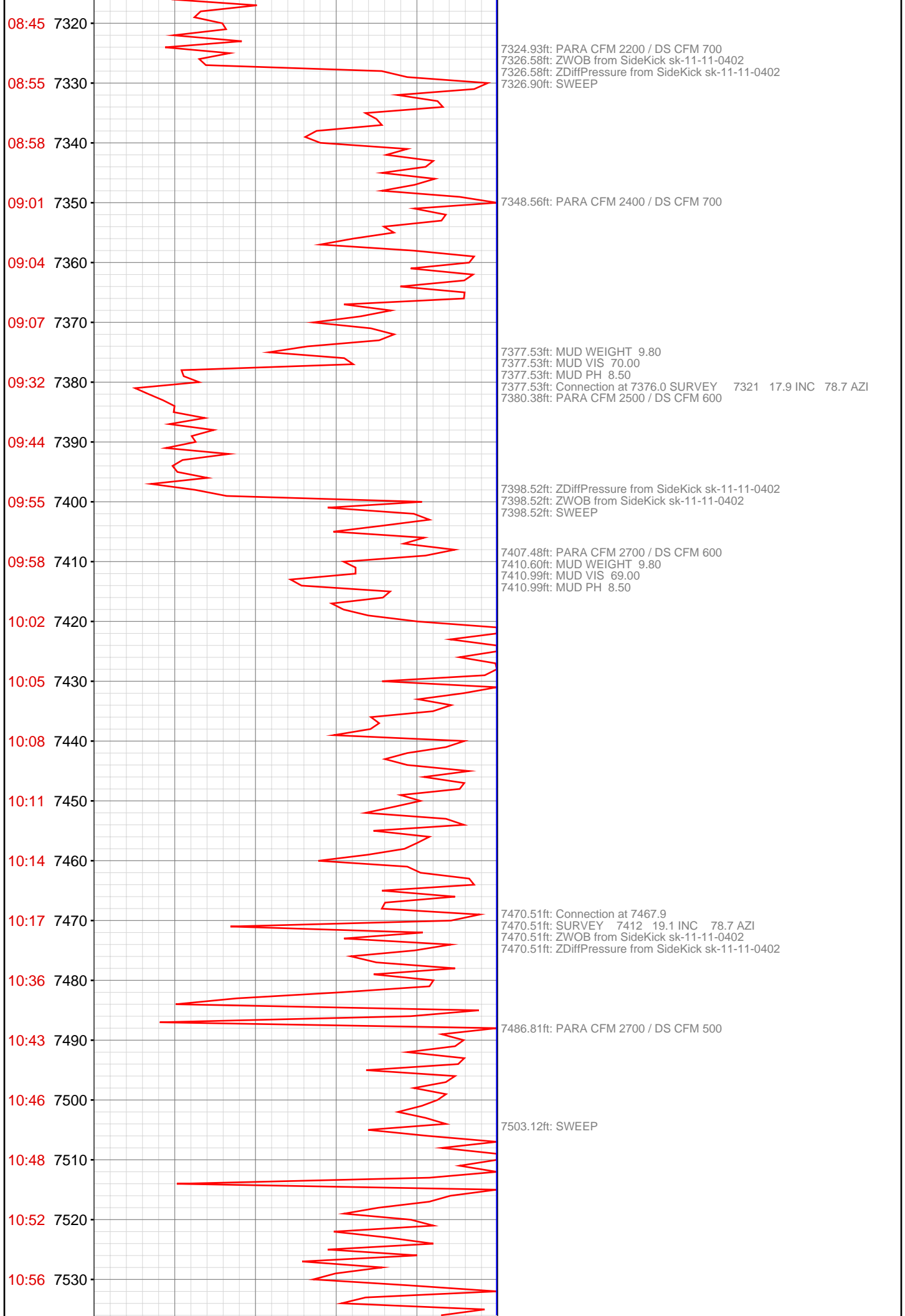


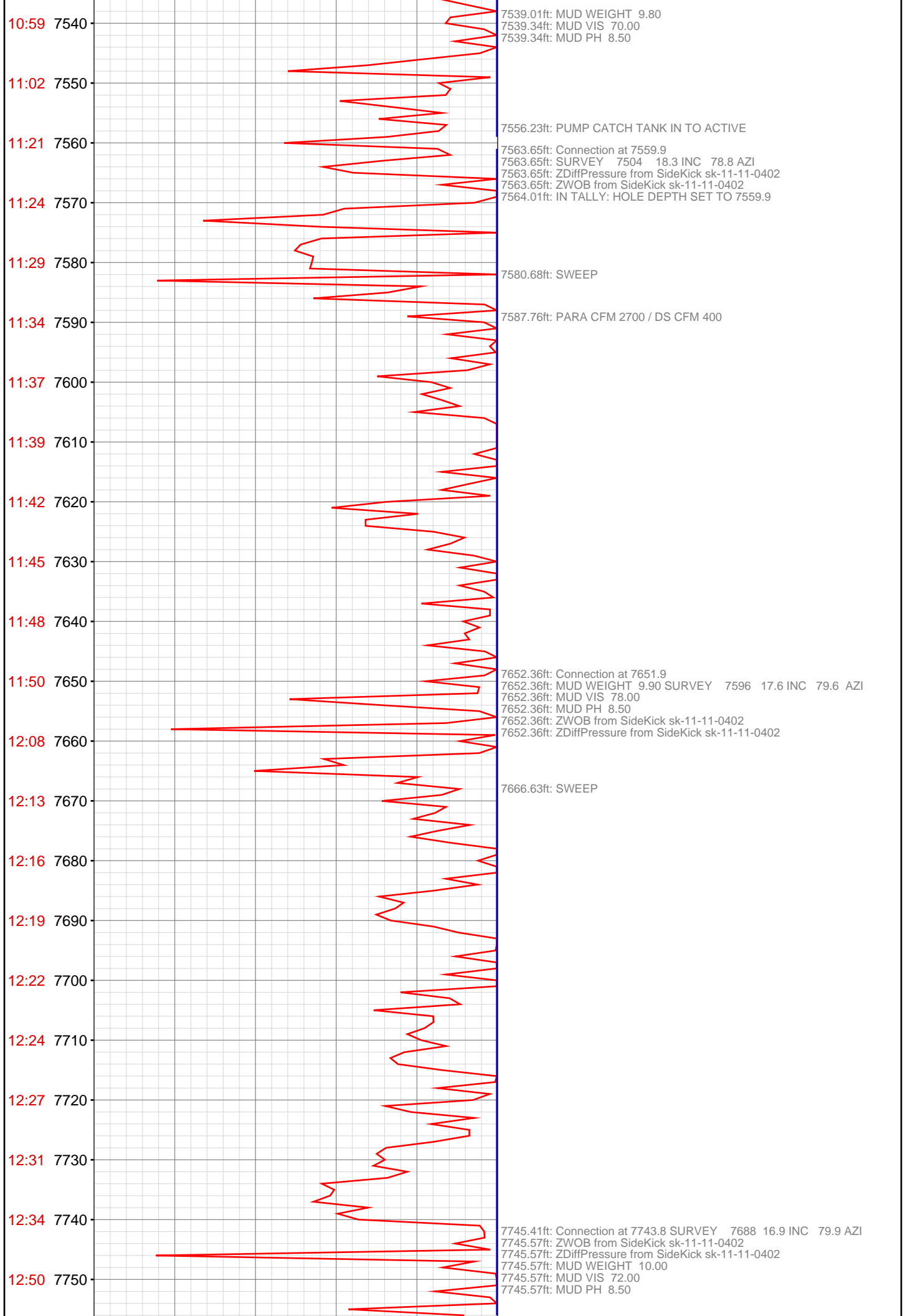


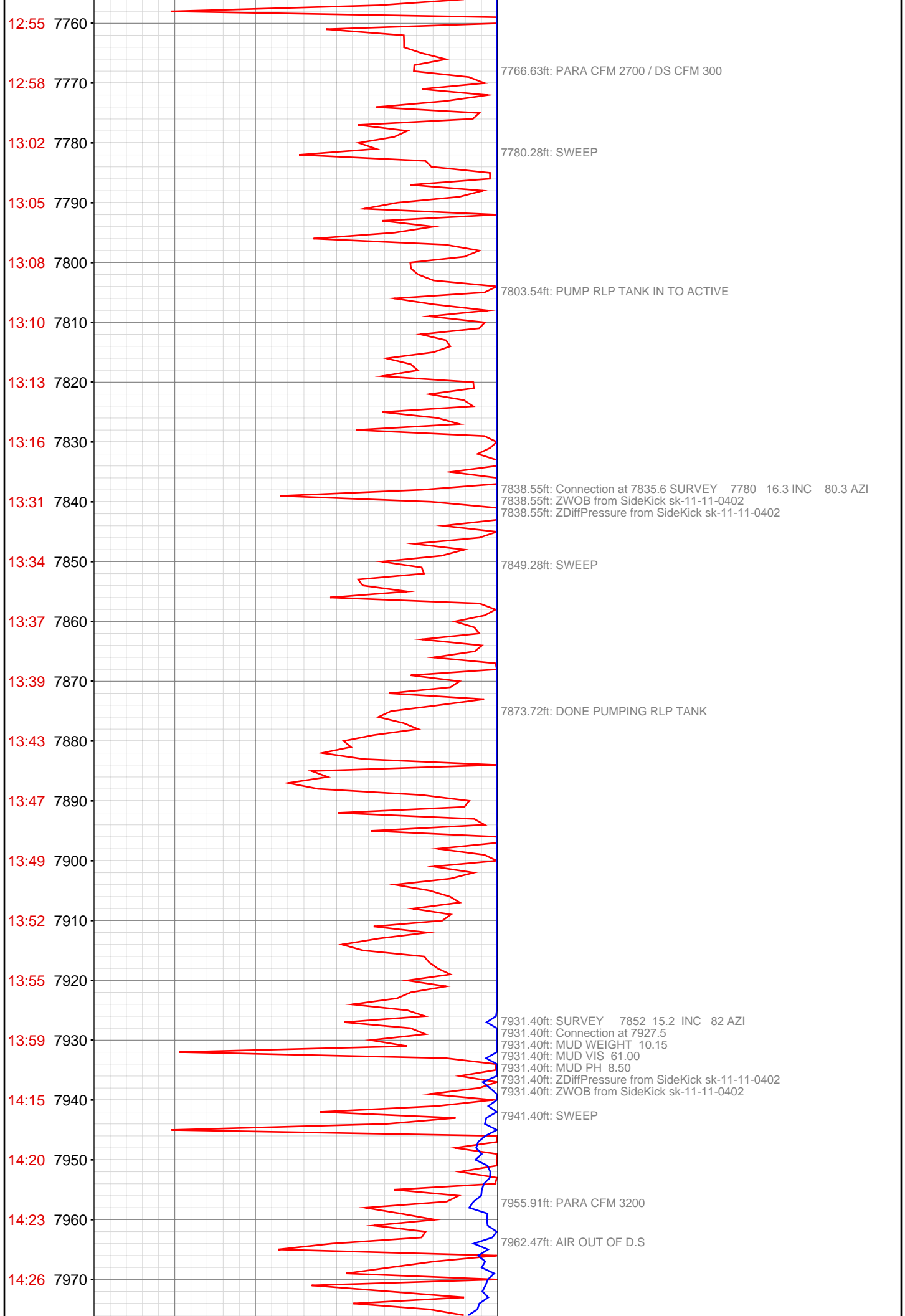


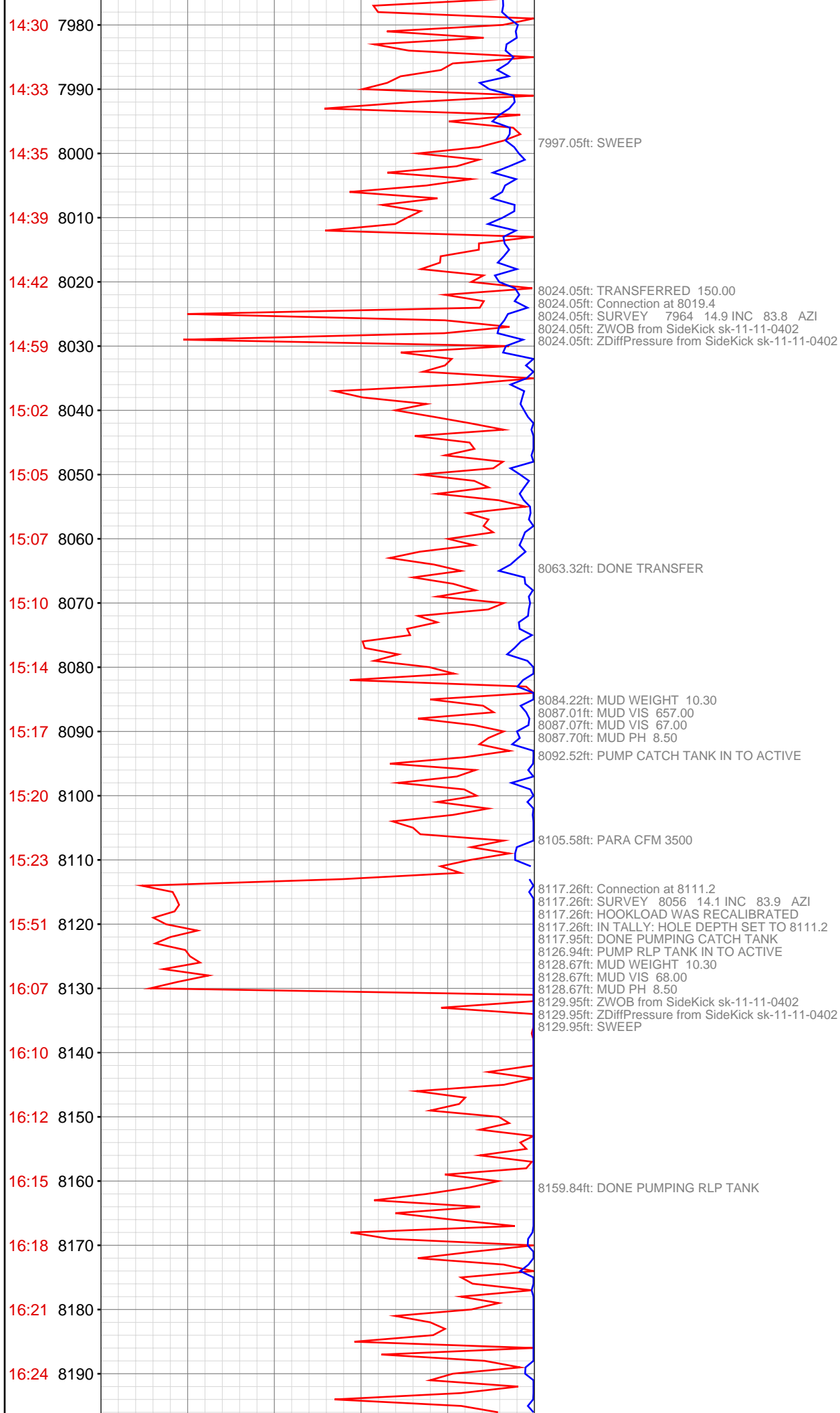


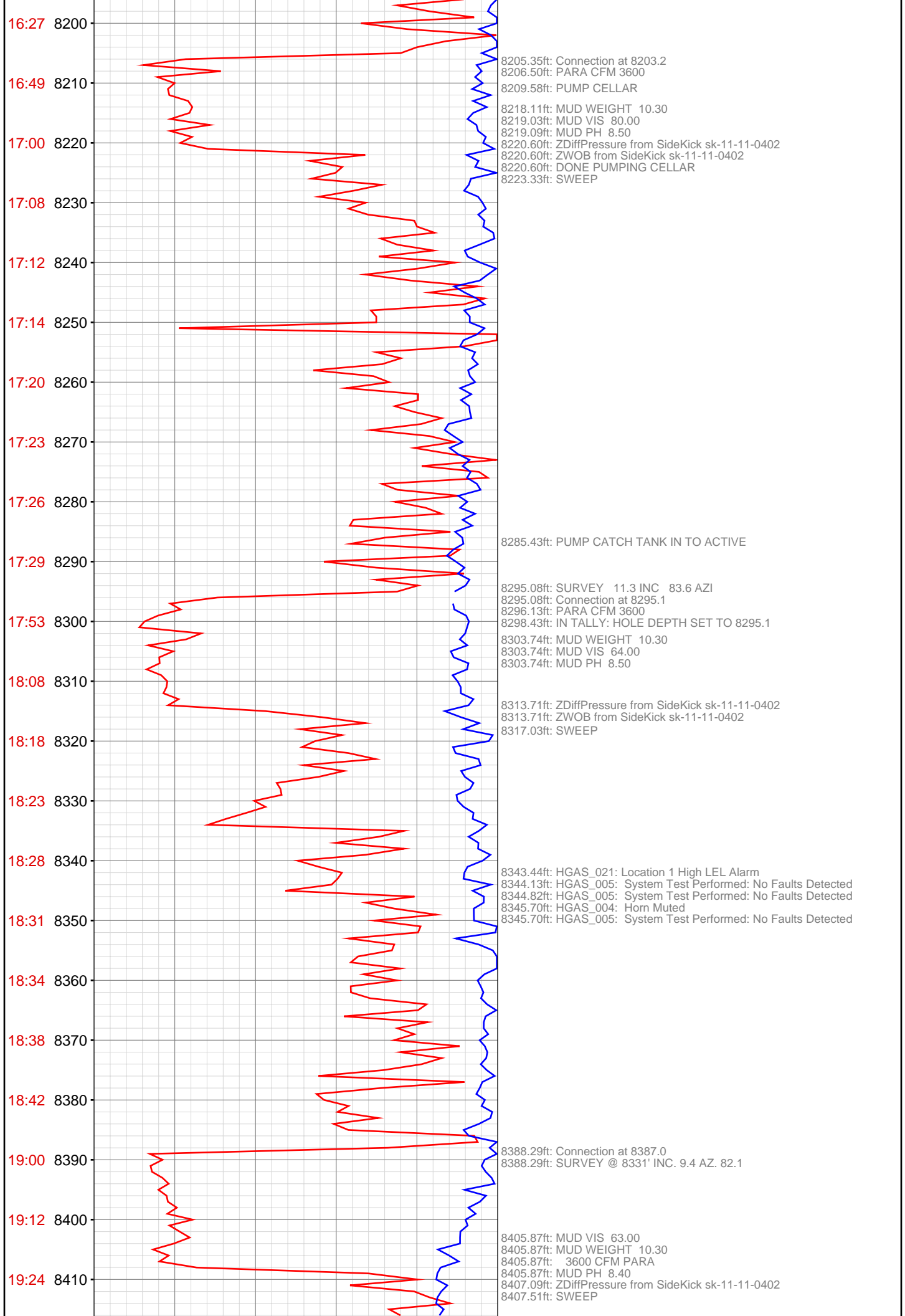


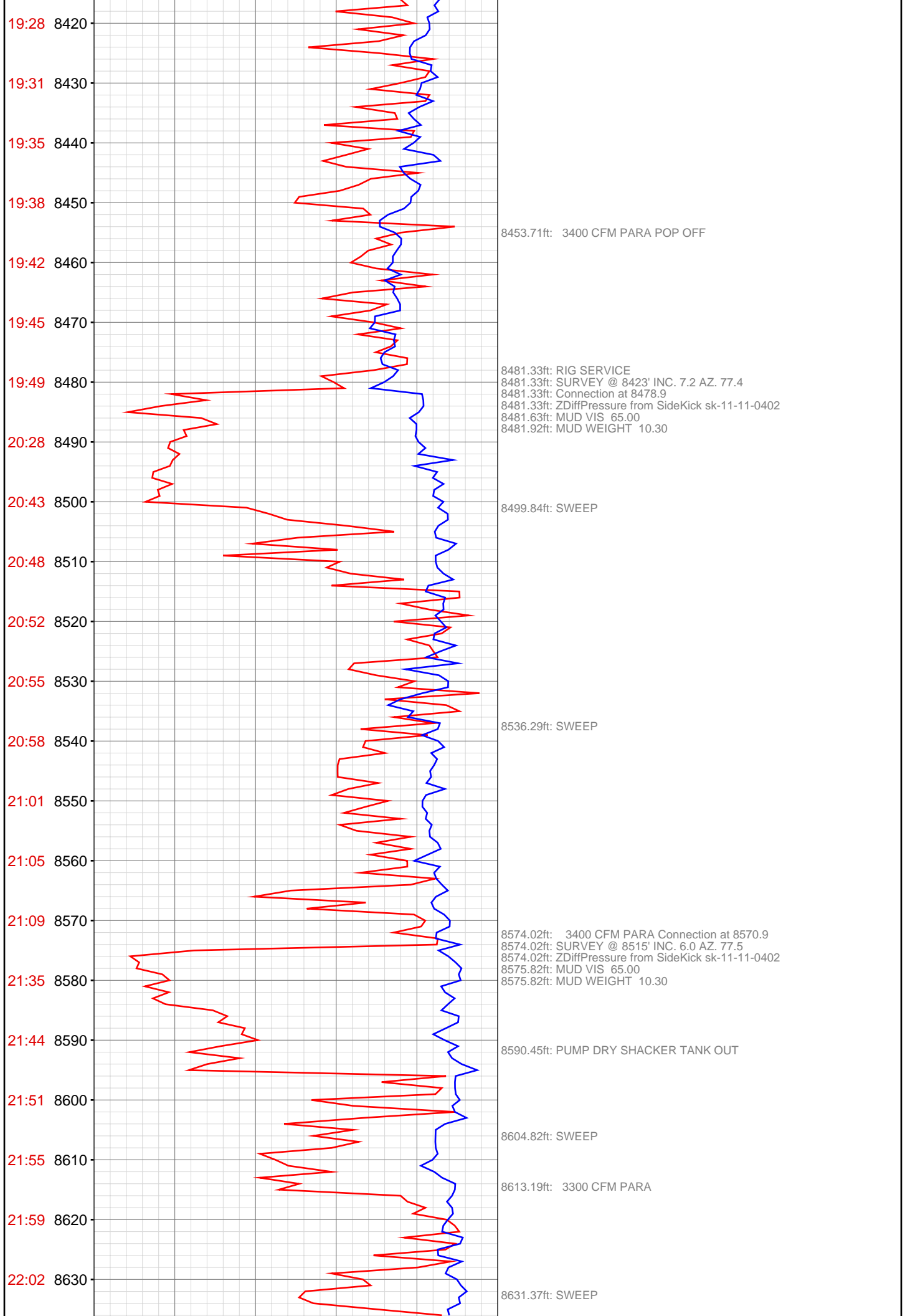


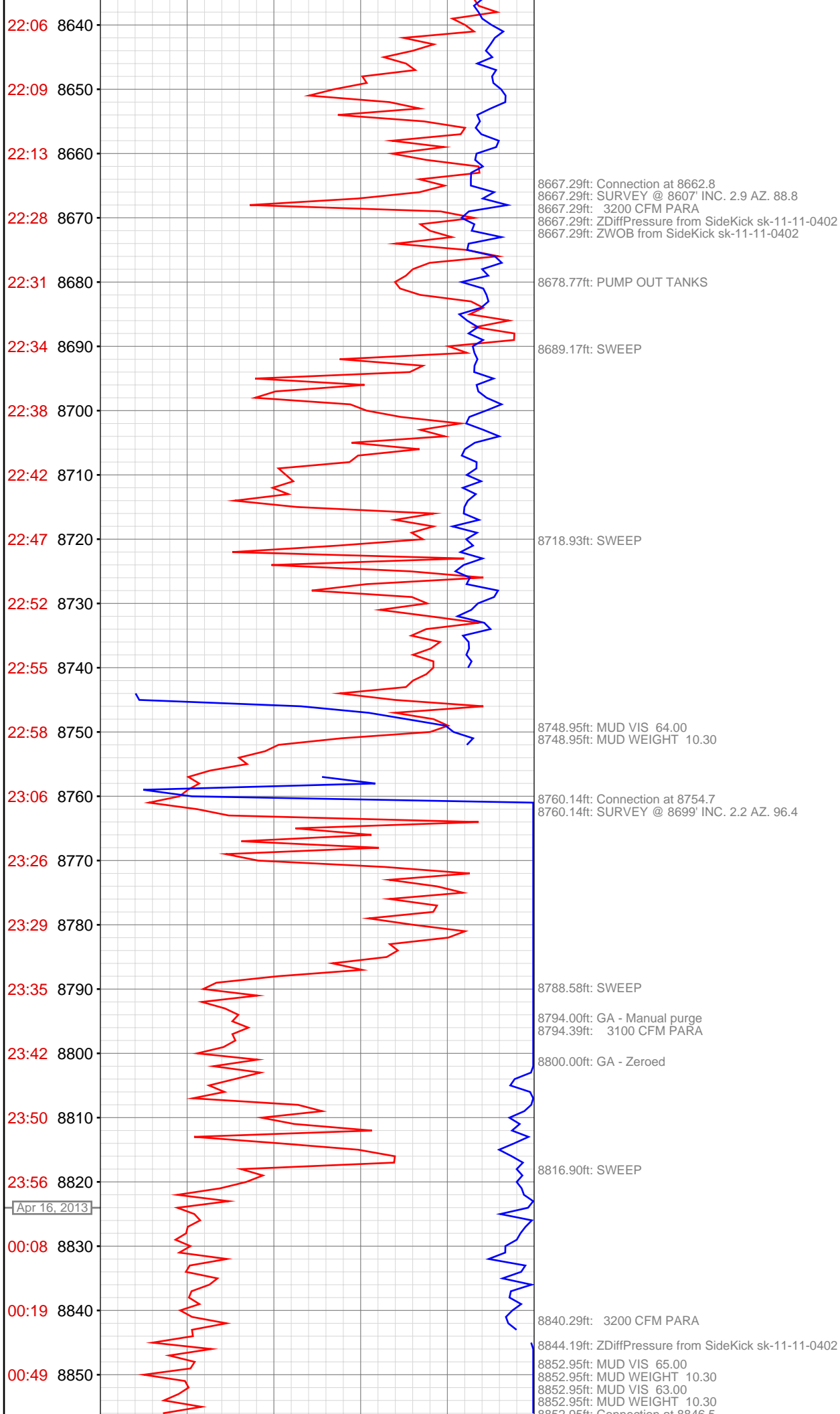


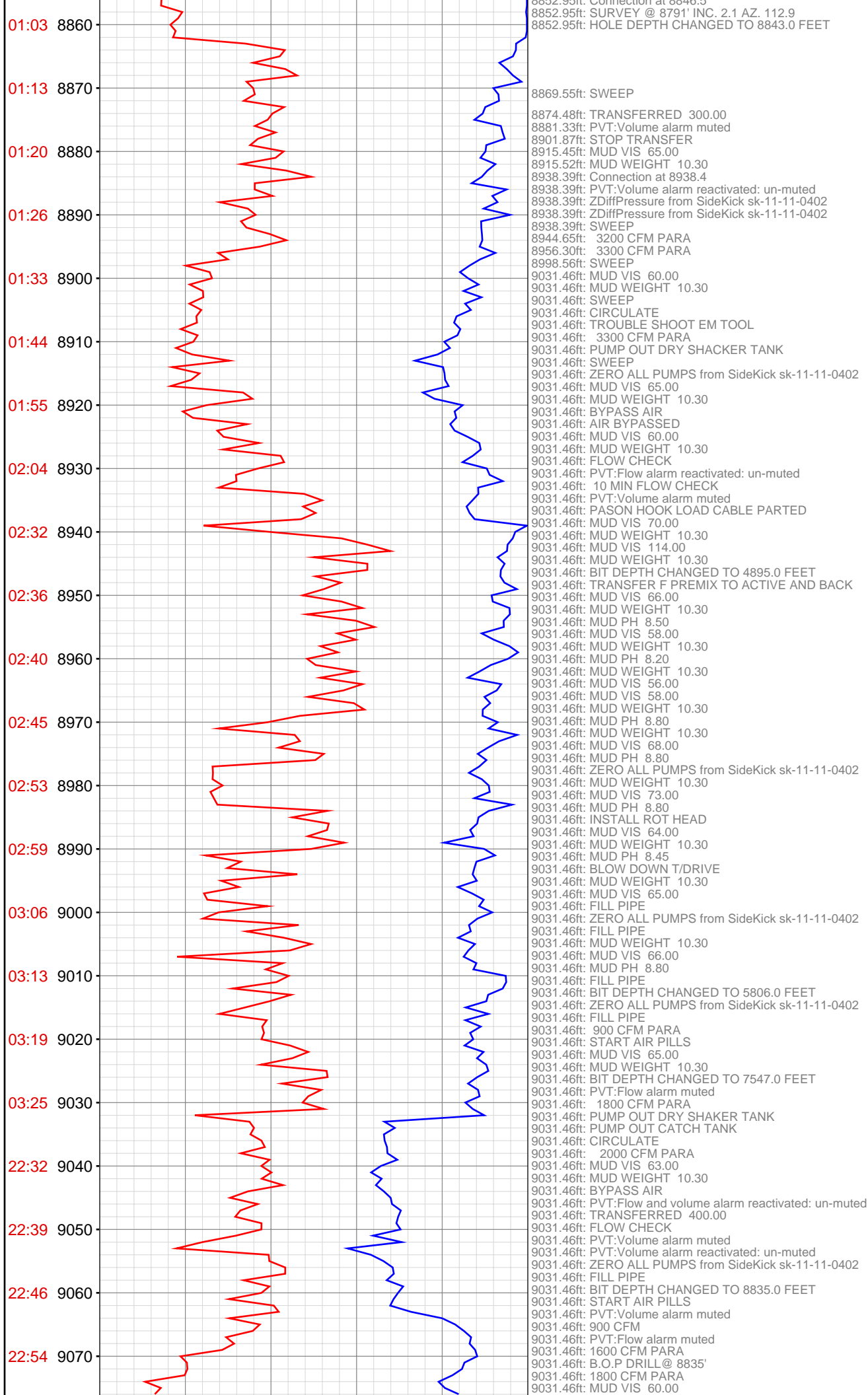


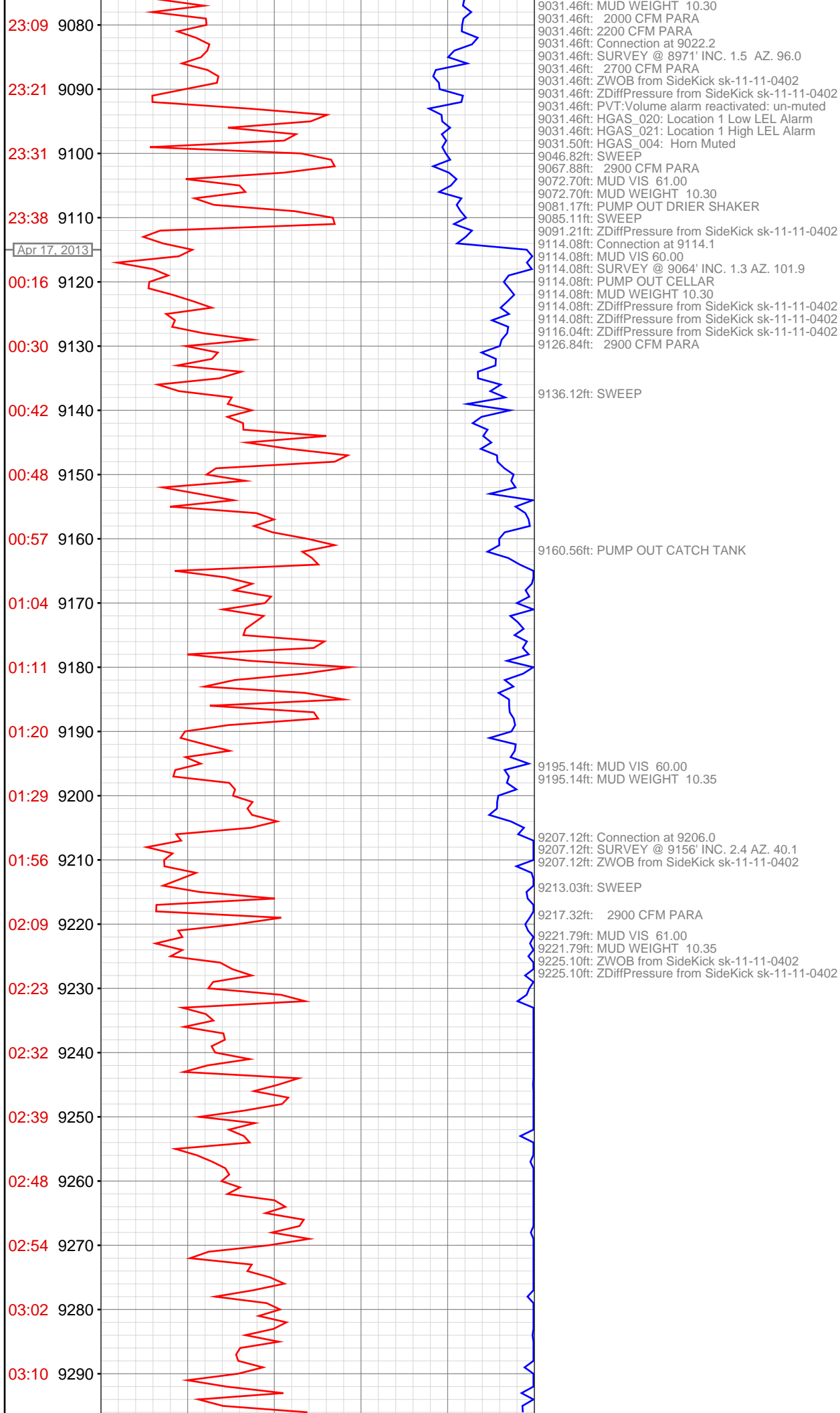


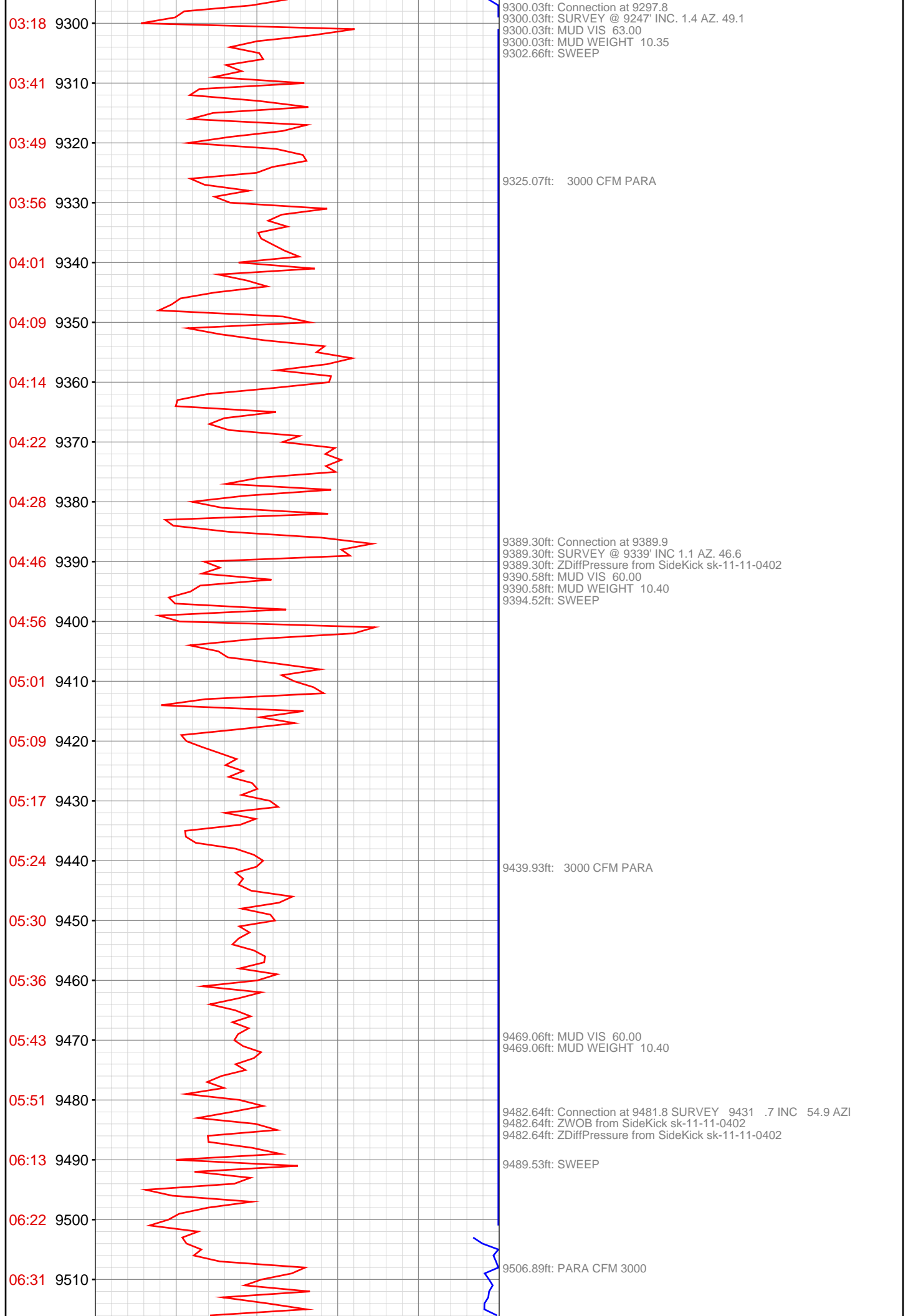


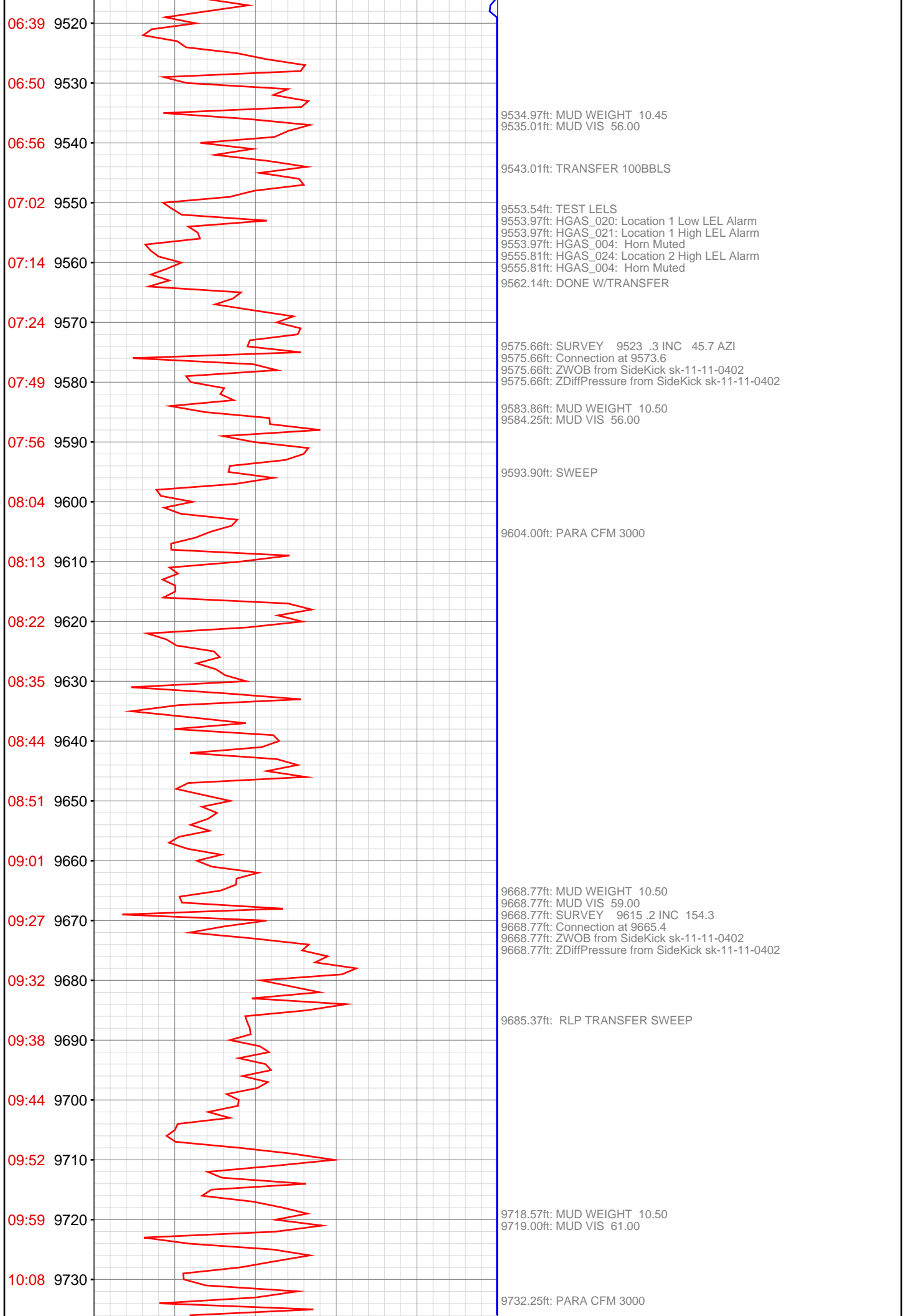


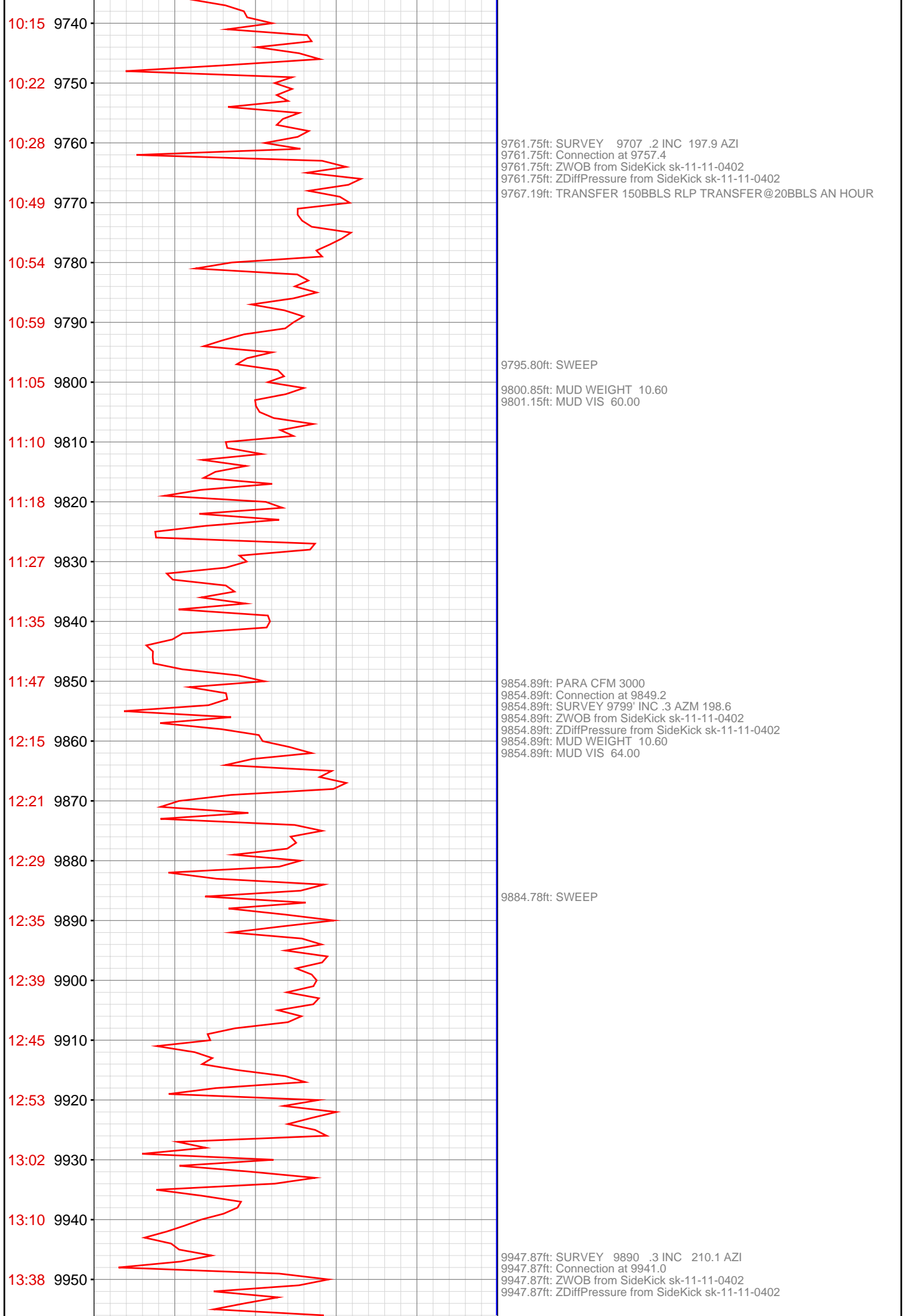


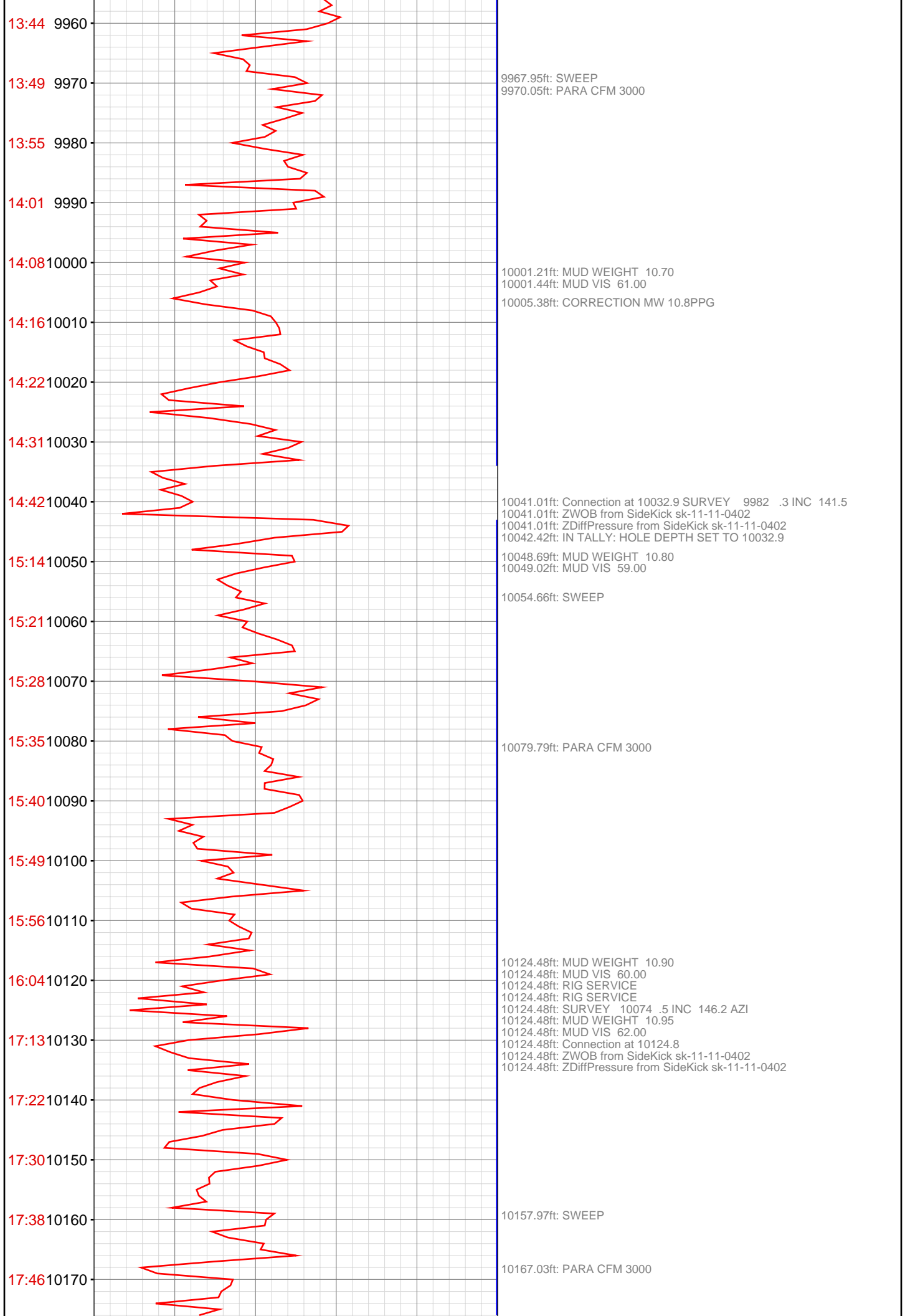


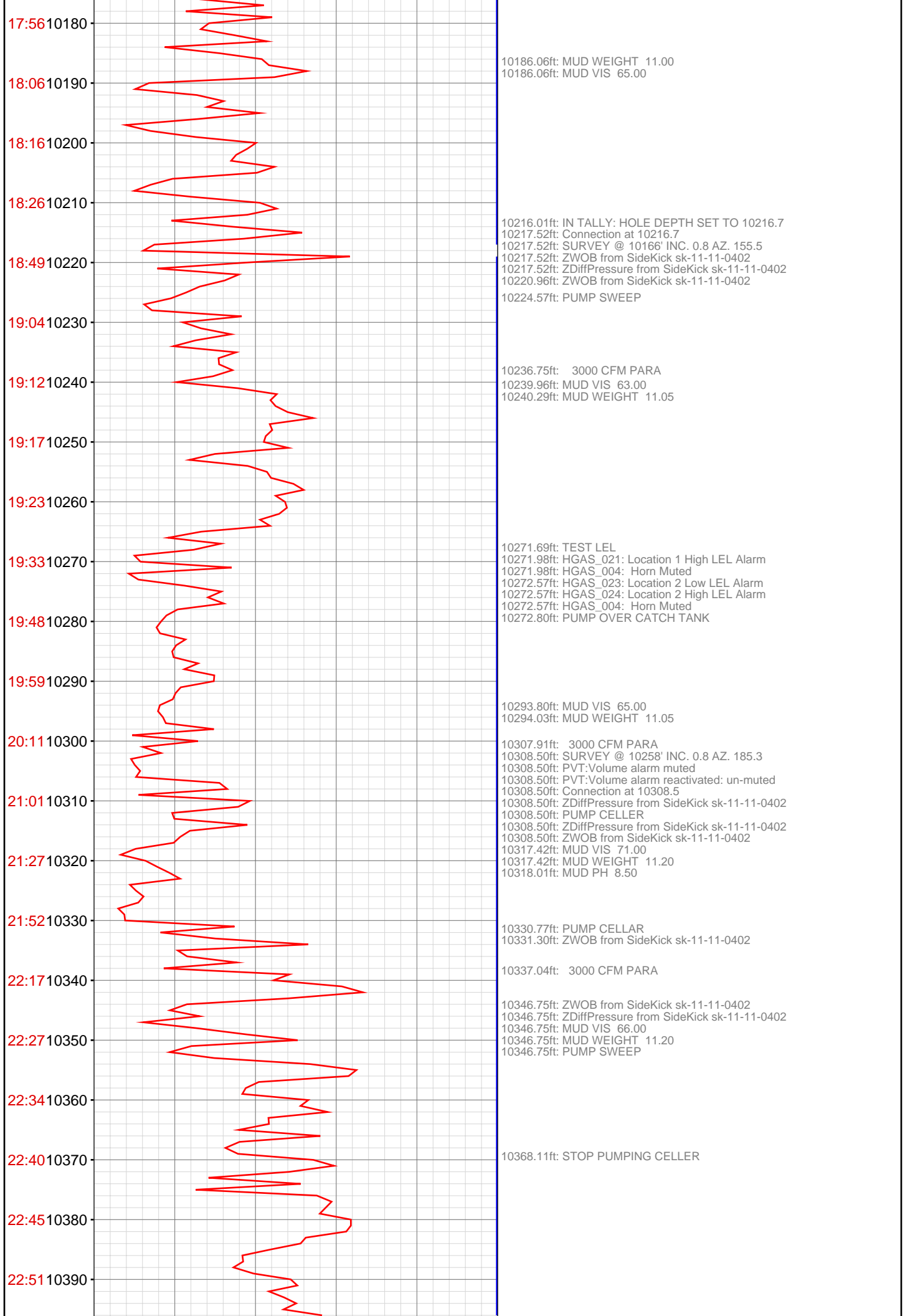












22:55 10400

23:27 10410

23:43 10420

23:48 10430

23:52 10440

23:57 10450

Apr 18, 2013

00:03 10460

00:08 10470

00:13 10480

00:20 10490

00:41 10500

00:46 10510

00:53 10520

01:01 10530

01:08 10540

01:14 10550

01:22 10560

01:28 10570

01:36 10580

02:13 10590

02:25 10600

02:33 10610

10401.64ft: Connection at 10400.4
10401.64ft: 2900 CFM PARA SURVEY @ 10350' INC. 0.5 AZ. 337.3
10401.64ft: ZDiffPressure from SideKick sk-11-11-0402

10415.16ft: MUD DENSITY 0.05
10415.45ft: MUD VIS 65.00
10415.52ft: MUD WEIGHT 11.20
10419.06ft: ZDiffPressure from SideKick sk-11-11-0402
10419.06ft: ZWOB from SideKick sk-11-11-0402

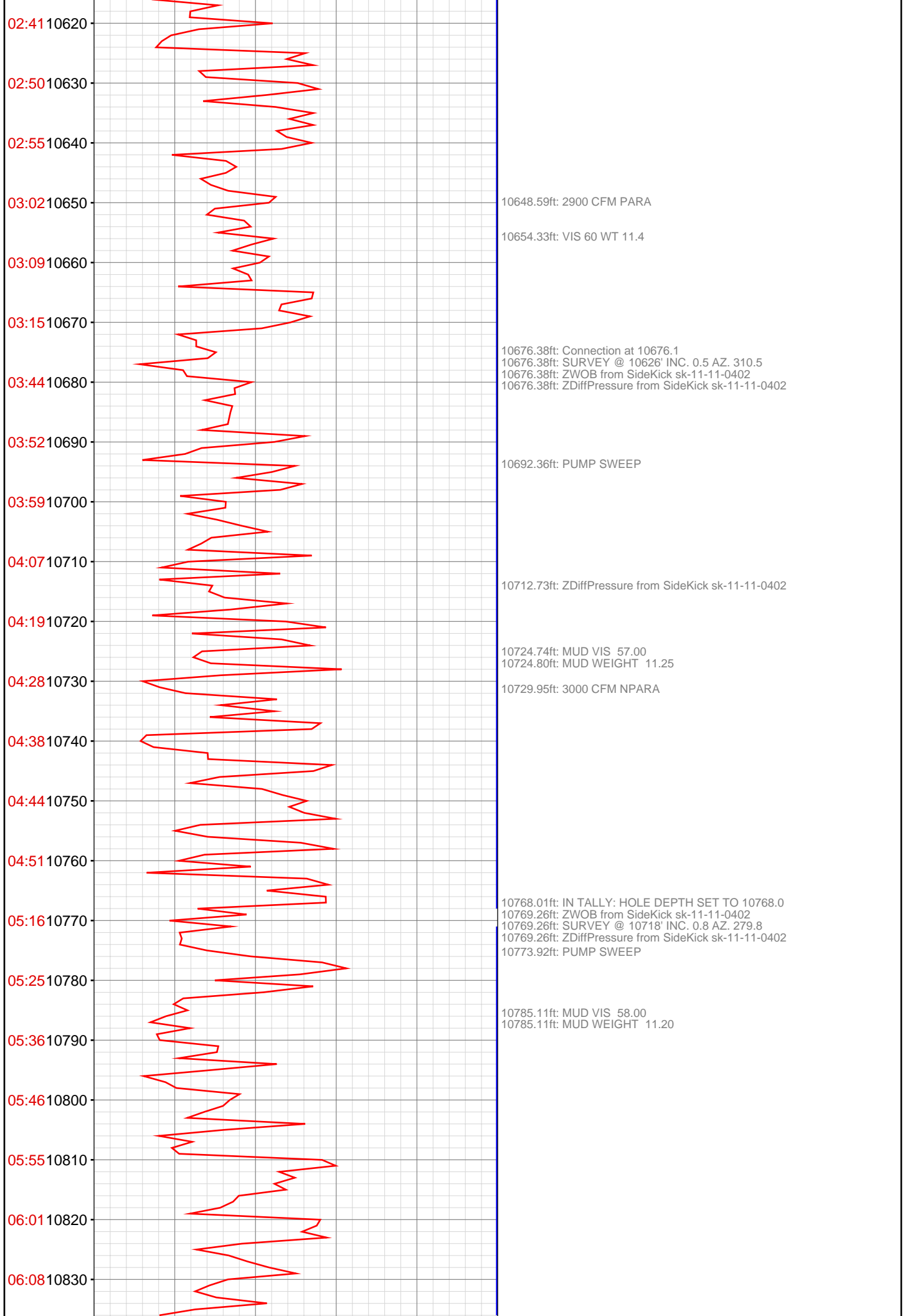
10494.62ft: Connection at 10492.3
10494.62ft: SURVEY @ 10442' INC. 1.2 AZ. 351.4
10494.62ft: HOOK LOAD HIGH RECALIBRATED
10494.62ft: ZDiffPressure from SideKick sk-11-11-0402
10494.62ft: ZWOB from SideKick sk-11-11-0402
10496.72ft: PUMP SWEEP

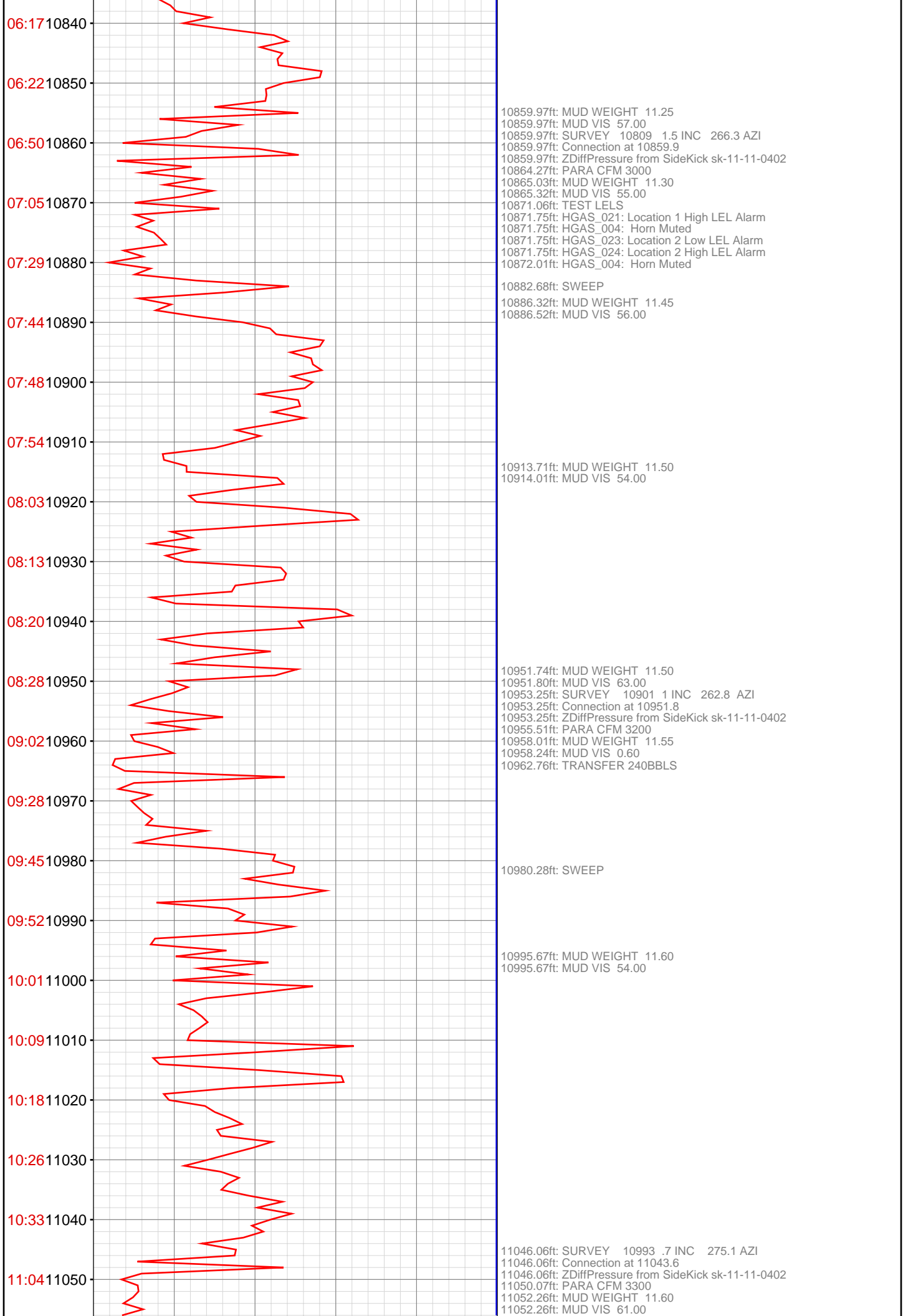
10503.28ft: MUD VIS 68.00
10503.38ft: MUD WEIGHT 11.25

10535.07ft: 2900 FM PARA 2900 CFM

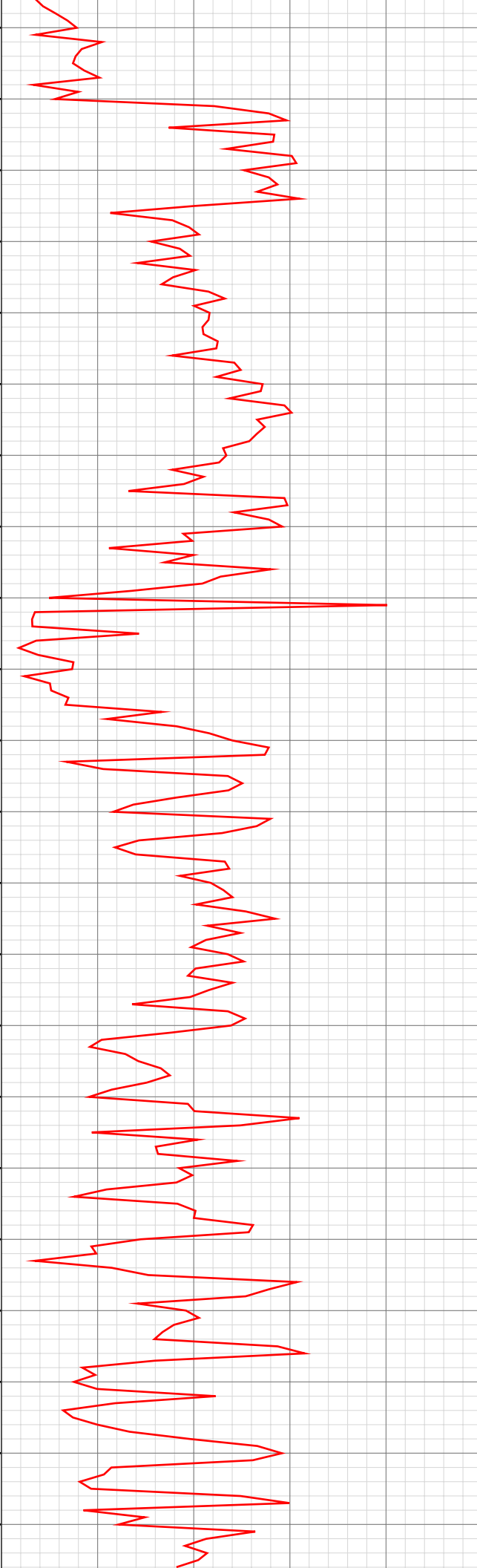
10575.23ft: MUD VIS 59.00
10575.59ft: MUD WEIGHT 11.35

10587.89ft: Connection at 10584.1
10587.89ft: SURVEY @ 10534' INC. 0.8 AZ. 340.8
10587.89ft: ZWOB from SideKick sk-11-11-0402
10587.89ft: ZDiffPressure from SideKick sk-11-11-0402
10588.58ft: PUMP SWEEP
10589.04ft: IN TALLY: HOLE DEPTH SET TO 10584.1





11:28 11060
11:49 11070
11:54 11080
12:00 11090
12:06 11100
12:11 11110
12:16 11120
12:22 11130
12:49 11140
13:18 11150
13:38 11160
13:46 11170
13:53 11180
13:58 11190
14:03 11200
14:13 11210
14:19 11220
14:28 11230
14:53 11240
15:01 11250
15:10 11260
15:20 11270



11069.26ft: ZDiffPressure from SideKick sk-11-11-0402
11069.26ft: ZWOB from SideKick sk-11-11-0402
11069.26ft: SWEEP

11092.65ft: MUD WEIGHT 11.60
11092.72ft: MUD VIS 58.00

11139.14ft: Connection at 11135.4 SURVEY 11085 2.2 INC 5.4 AZI
11139.14ft: ZDiffPressure from SideKick sk-11-11-0402
11142.09ft: PARA CFM 3200
11146.69ft: MUD WEIGHT 11.55
11146.69ft: MUD VIS 65.00
11147.28ft: RLP TRANSFER@20BBLs AN HOUR

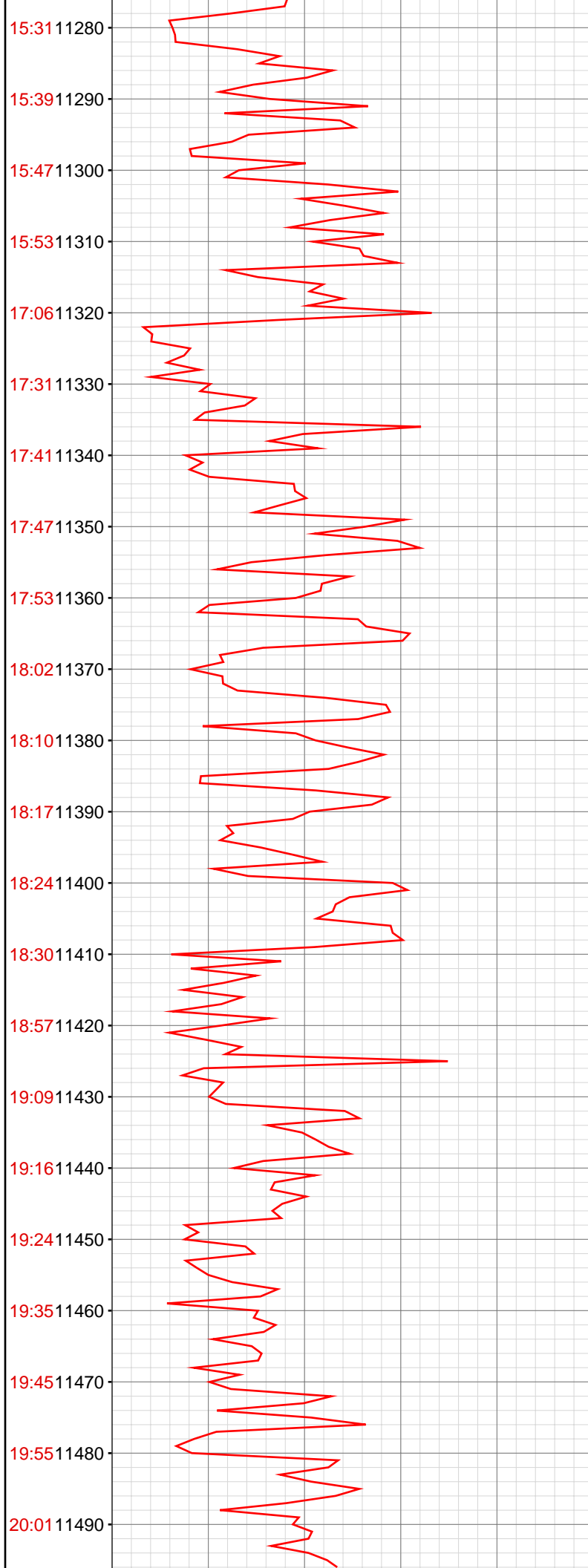
11157.25ft: SWEEP

11174.15ft: MUD WEIGHT 11.60
11174.15ft: MUD VIS 58.00

11232.19ft: SURVEY 11177 1.7 INC 28.0 AZI
11232.19ft: Connection at 11227.3
11232.19ft: ZWOB from SideKick sk-11-11-0402
11232.19ft: ZDiffPressure from SideKick sk-11-11-0402

11239.99ft: MUD WEIGHT 11.65
11240.26ft: MUD VIS 63.00

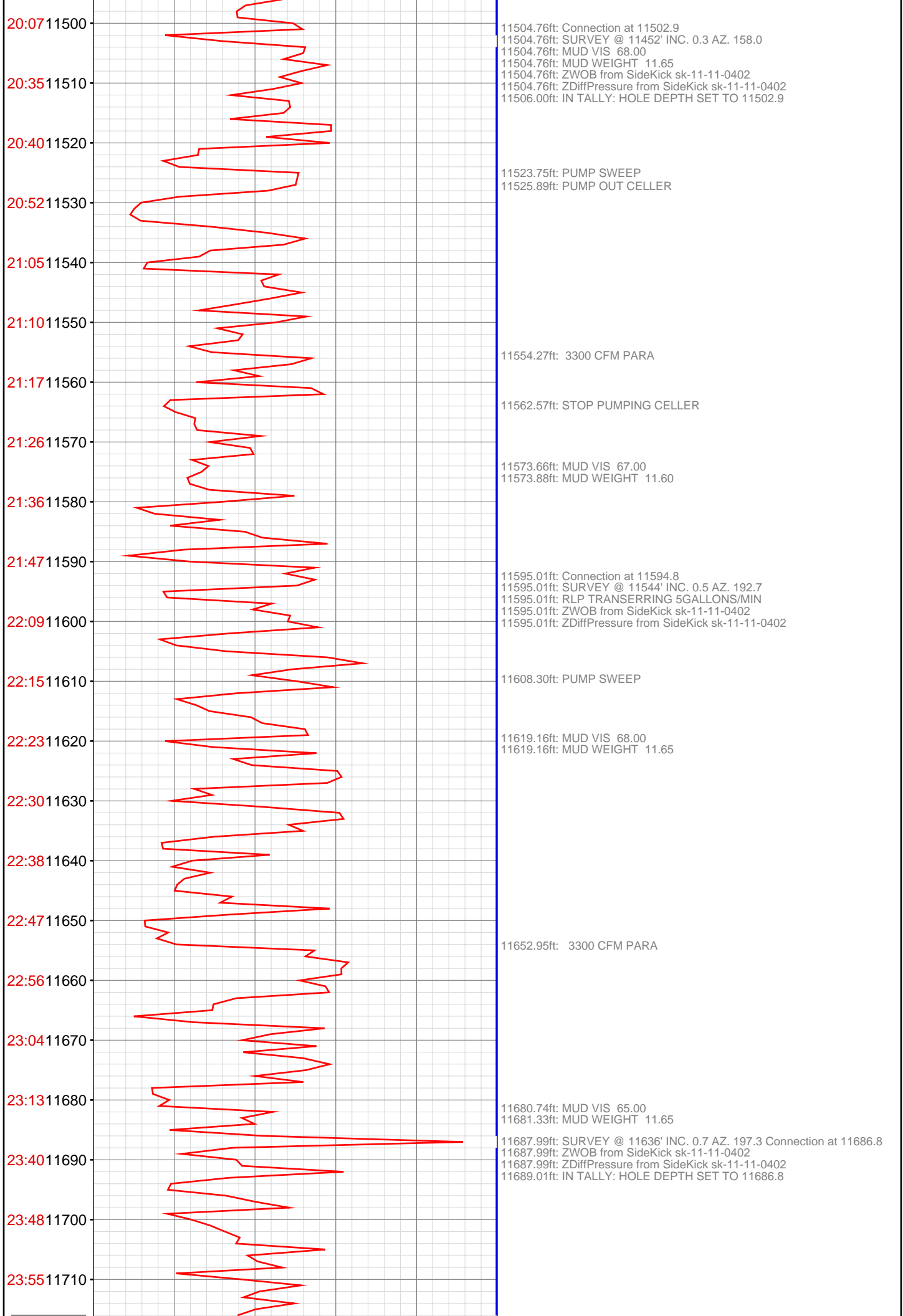
11253.08ft: SWEEP
11254.76ft: PARA CFM 3300



11325.00ft: MUD WEIGHT 11.60
11325.00ft: MUD VIS 59.00
11325.39ft: MUD WEIGHT 11.65
11325.39ft: RIG SERVICE
11325.39ft: MUD VIS 65.00
11325.39ft: SURVEY 11269 1.5 INC 20.8 AZI
11325.39ft: Connection at 11319.2
11325.39ft: TD 12,874'
11325.39ft: ZDiffPressure from SideKick sk-11-11-0402
11325.79ft: IN TALLY: HOLE DEPTH SET TO 11319.2
11330.41ft: ZDiffPressure from SideKick sk-11-11-0402
11330.41ft: PARA CFM 3300
11333.66ft: SWEEP

11411.84ft: Connection at 11411.0
11411.84ft: SURVEY @ 11361' INC. 0.5 AZ. 66.8
11411.84ft: ZWOB from SideKick sk-11-11-0402
11411.84ft: ZDiffPressure from SideKick sk-11-11-0402
11411.84ft: MUD VIS 69.00
11411.84ft: MUD WEIGHT 11.65
11411.84ft: MUD PH 8.50
11418.73ft: PUMP SWEEP

11438.06ft: 3300 CFM PARA
11442.29ft: TEST LEL
11443.18ft: HGAS_020: Location 1 Low LEL Alarm
11443.18ft: HGAS_021: Location 1 High LEL Alarm
11443.47ft: HGAS_004: Horn Muted
11445.01ft: HGAS_024: Location 2 High LEL Alarm
11445.44ft: HGAS_004: Horn Muted
11452.85ft: MUD VIS 68.00
11452.99ft: MUD WEIGHT 11.65



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00:06 11720

11718.31ft: PUMP CELLER
11720.11ft: PUMP SWEEP

00:18 11730

11726.08ft: STOP PUMPING CELLER

00:23 11740

11731.82ft: VIS 62 WT 11.65

00:28 11750

11747.90ft: 3300 CFM PARA

00:36 11760

00:42 11770

01:07 11780

11778.97ft: Connection at 11778.6
11778.97ft: SURVEY @ 11728' INC. 1.3 AZ. 194.9
11778.97ft: VIS 62 WT 11.6
11778.97ft: ZDiffPressure from SideKick sk-11-11-0402

01:40 11790

11791.80ft: ZDiffPressure from SideKick sk-11-11-0402
11791.80ft: ZWOB from SideKick sk-11-11-0402
11796.42ft: MUD VIS 65.00
11796.42ft: MUD WEIGHT 11.65

02:04 11800

02:13 11810

11805.77ft: PUMP SWEEP

02:21 11820

02:31 11830

02:37 11840

02:46 11850

02:55 11860

11853.84ft: 3300 CFM PARA

03:03 11870

03:33 11880

11871.88ft: Connection at 11870.4
11871.88ft: SURVEY @ 11820' INC. 0.4 AZ. 238.4
11871.88ft: ZWOB from SideKick sk-11-11-0402
11871.88ft: ZDiffPressure from SideKick sk-11-11-0402

11878.54ft: PUMP OUT CELLER

03:41 11890

11886.38ft: PUMP SWEEP

03:50 11900

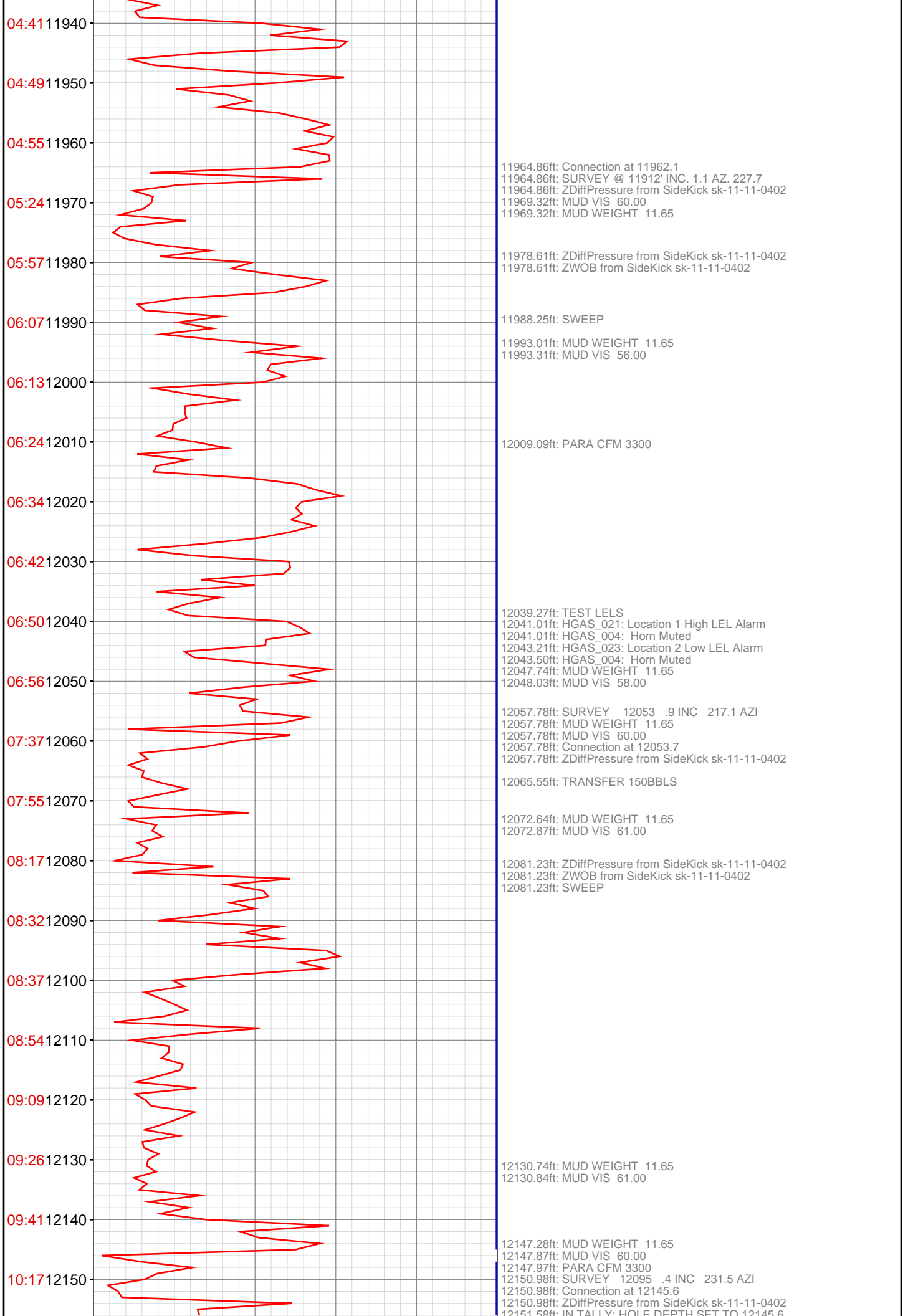
11894.23ft: STOP PUMPING CELLER

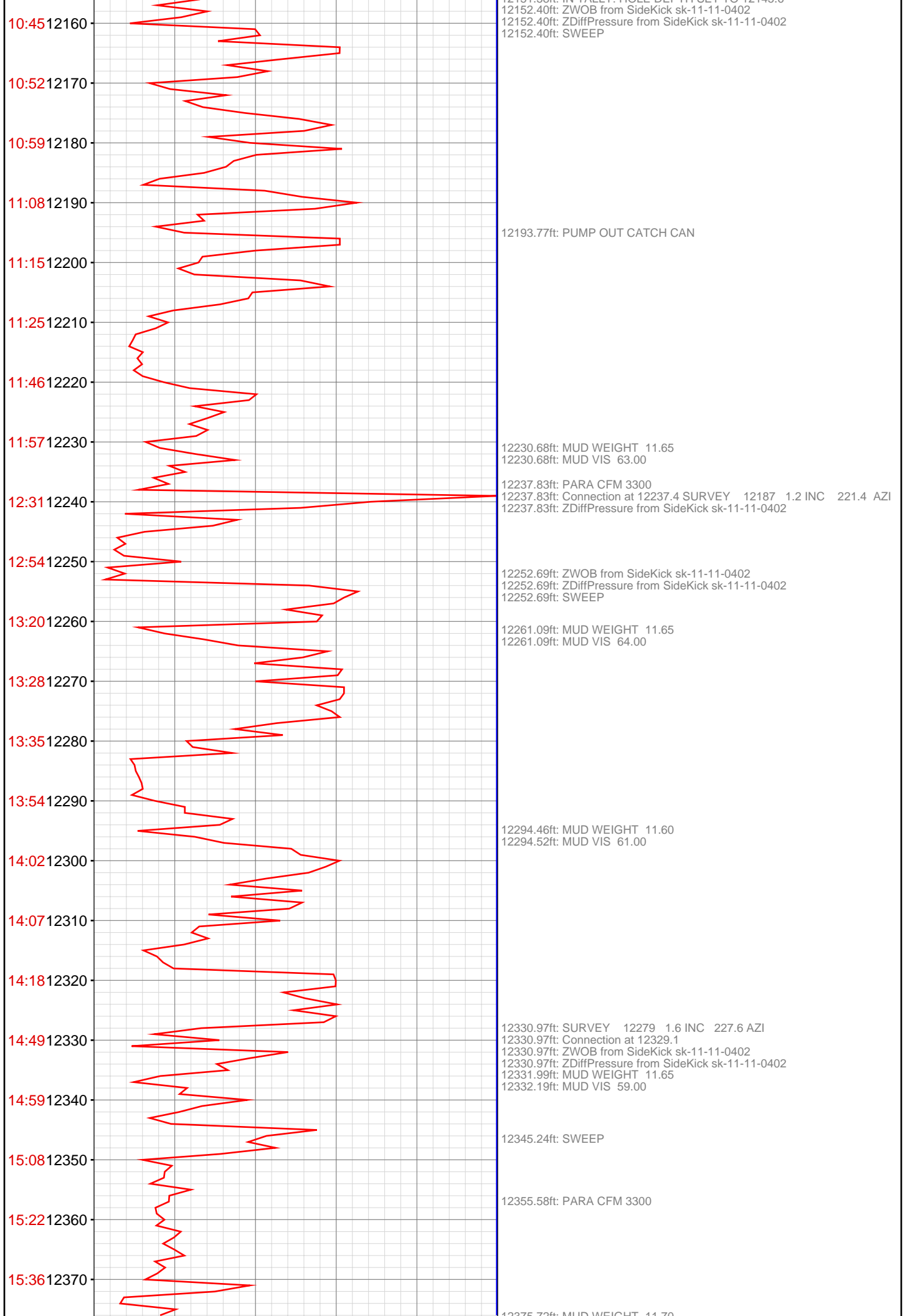
04:01 11910

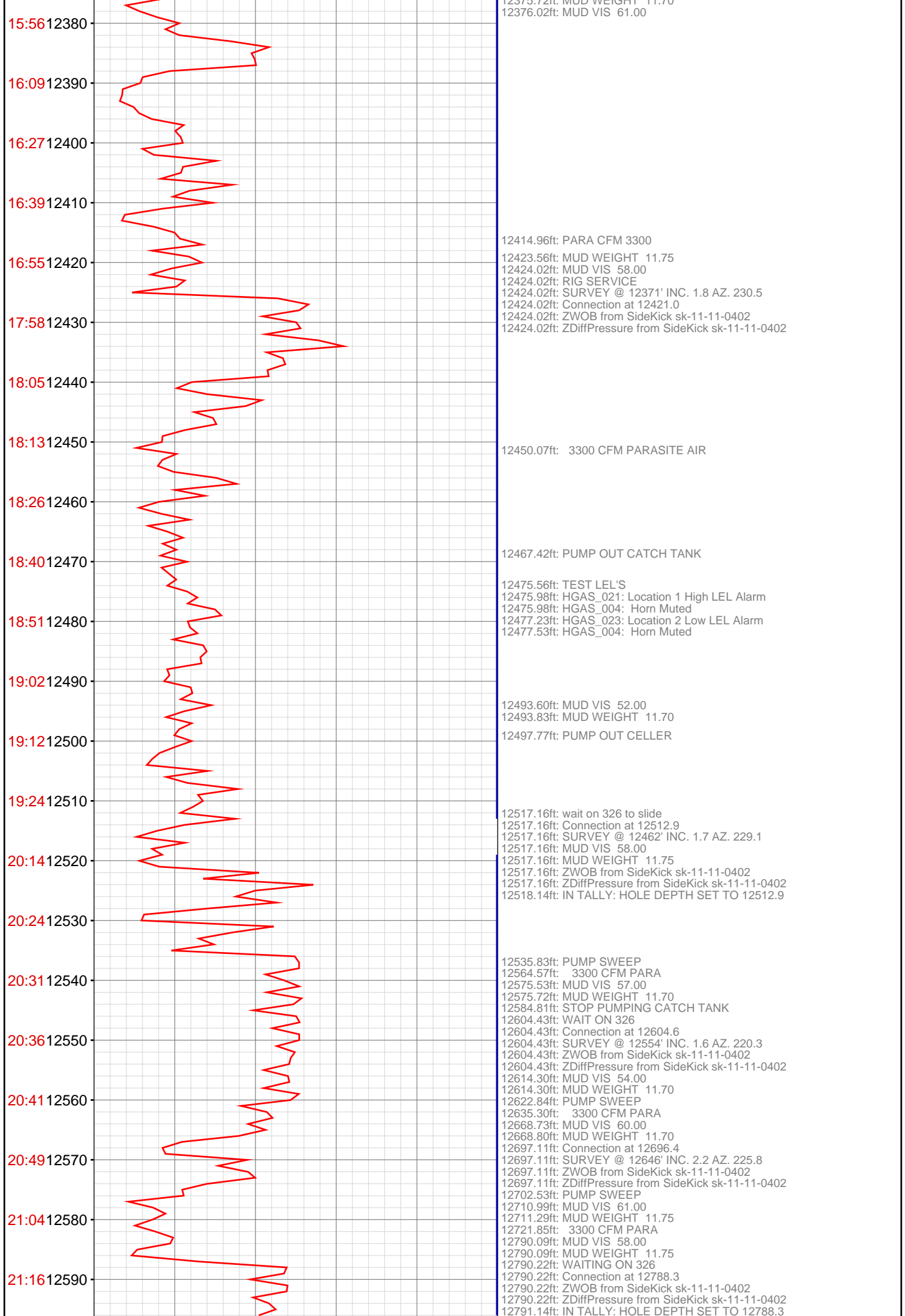
11910.53ft: MUD VIS 58.00
11910.99ft: MUD WEIGHT 11.60
11912.04ft: MUD PH 8.60

04:13 11920

04:23 11930







12373.72ft: MUD WEIGHT 11.70
12376.02ft: MUD VIS 61.00

12414.96ft: PARA CFM 3300
12423.56ft: MUD WEIGHT 11.75
12424.02ft: MUD VIS 58.00
12424.02ft: RIG SERVICE
12424.02ft: SURVEY @ 12371' INC. 1.8 AZ. 230.5
12424.02ft: Connection at 12421.0
12424.02ft: ZWOB from SideKick sk-11-11-0402
12424.02ft: ZDiffPressure from SideKick sk-11-11-0402

12450.07ft: 3300 CFM PARASITE AIR

12467.42ft: PUMP OUT CATCH TANK

12475.56ft: TEST LEL'S
12475.98ft: HGAS_021: Location 1 High LEL Alarm
12475.98ft: HGAS_004: Horn Muted
12477.23ft: HGAS_023: Location 2 Low LEL Alarm
12477.53ft: HGAS_004: Horn Muted

12493.60ft: MUD VIS 52.00
12493.83ft: MUD WEIGHT 11.70
12497.77ft: PUMP OUT CELLER

12517.16ft: wait on 326 to slide
12517.16ft: Connection at 12512.9
12517.16ft: SURVEY @ 12462' INC. 1.7 AZ. 229.1
12517.16ft: MUD VIS 58.00
12517.16ft: MUD WEIGHT 11.75
12517.16ft: ZWOB from SideKick sk-11-11-0402
12517.16ft: ZDiffPressure from SideKick sk-11-11-0402
12518.14ft: IN TALLY: HOLE DEPTH SET TO 12512.9

12535.83ft: PUMP SWEEP
12564.57ft: 3300 CFM PARA
12575.53ft: MUD VIS 57.00
12575.72ft: MUD WEIGHT 11.70
12584.81ft: STOP PUMPING CATCH TANK
12604.43ft: WAIT ON 326
12604.43ft: Connection at 12604.6
12604.43ft: SURVEY @ 12554' INC. 1.6 AZ. 220.3
12604.43ft: ZWOB from SideKick sk-11-11-0402
12604.43ft: ZDiffPressure from SideKick sk-11-11-0402
12614.30ft: MUD VIS 54.00
12614.30ft: MUD WEIGHT 11.70
12622.84ft: PUMP SWEEP
12635.30ft: 3300 CFM PARA
12668.73ft: MUD VIS 60.00
12668.80ft: MUD WEIGHT 11.70
12697.11ft: Connection at 12696.4
12697.11ft: SURVEY @ 12646' INC. 2.2 AZ. 225.8
12697.11ft: ZWOB from SideKick sk-11-11-0402
12697.11ft: ZDiffPressure from SideKick sk-11-11-0402
12702.53ft: PUMP SWEEP
12710.99ft: MUD VIS 61.00
12711.29ft: MUD WEIGHT 11.75
12721.85ft: 3300 CFM PARA
12790.09ft: MUD VIS 58.00
12790.09ft: MUD WEIGHT 11.75
12790.22ft: WAITING ON 326
12790.22ft: Connection at 12788.3
12790.22ft: ZWOB from SideKick sk-11-11-0402
12790.22ft: ZDiffPressure from SideKick sk-11-11-0402
12791.14ft: IN TALLY: HOLE DEPTH SET TO 12788.3

