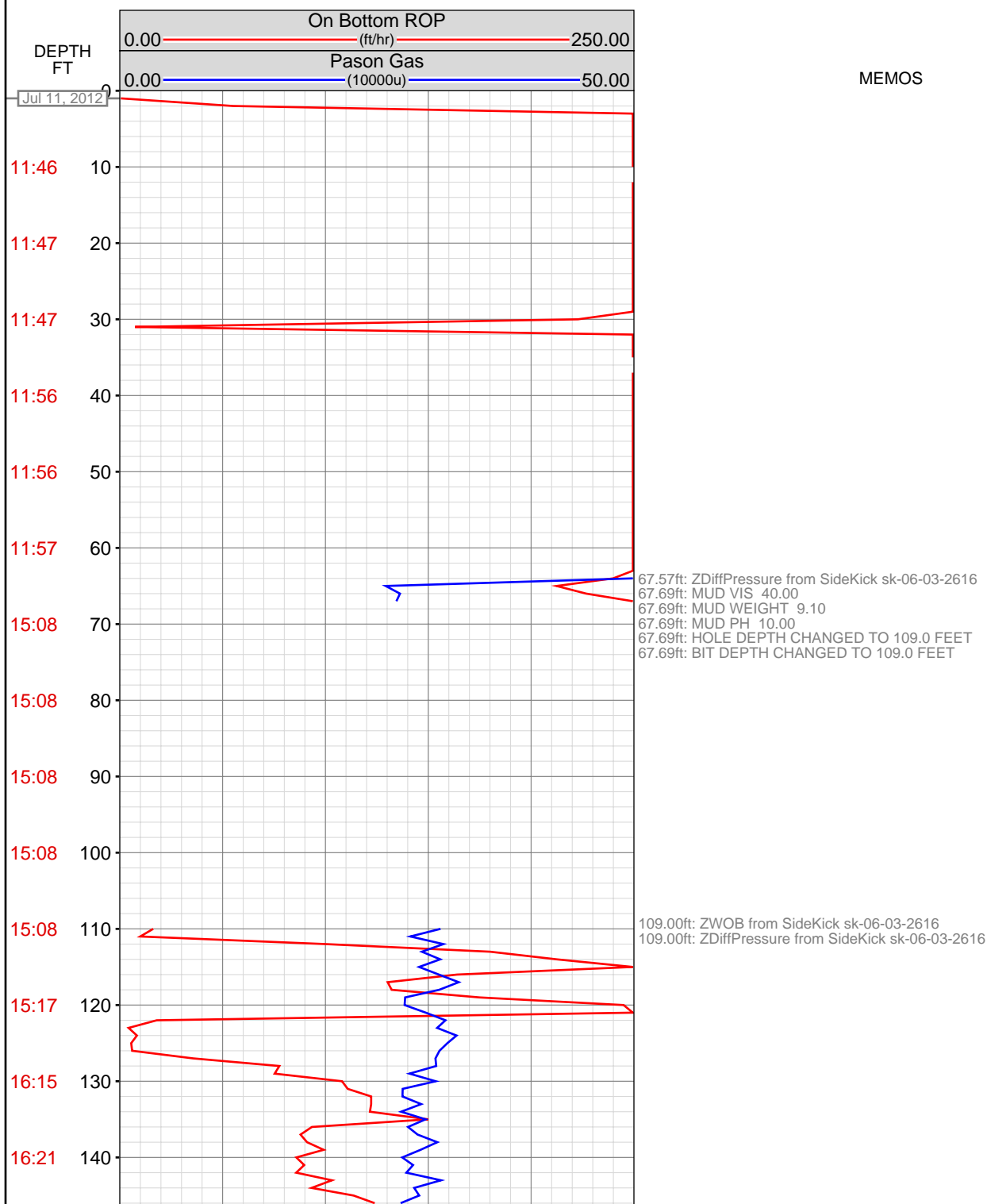


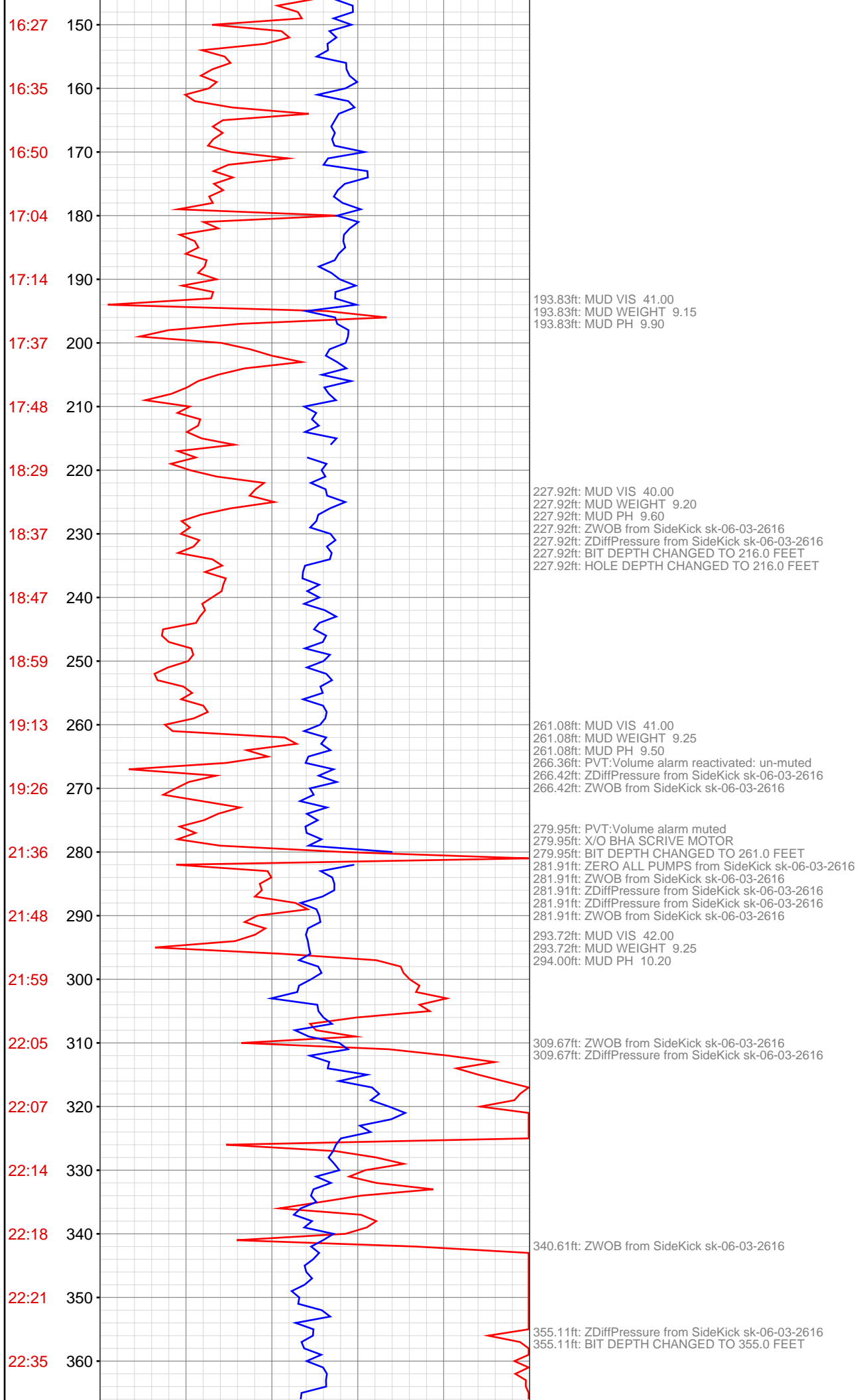
# DataHub EDR Log

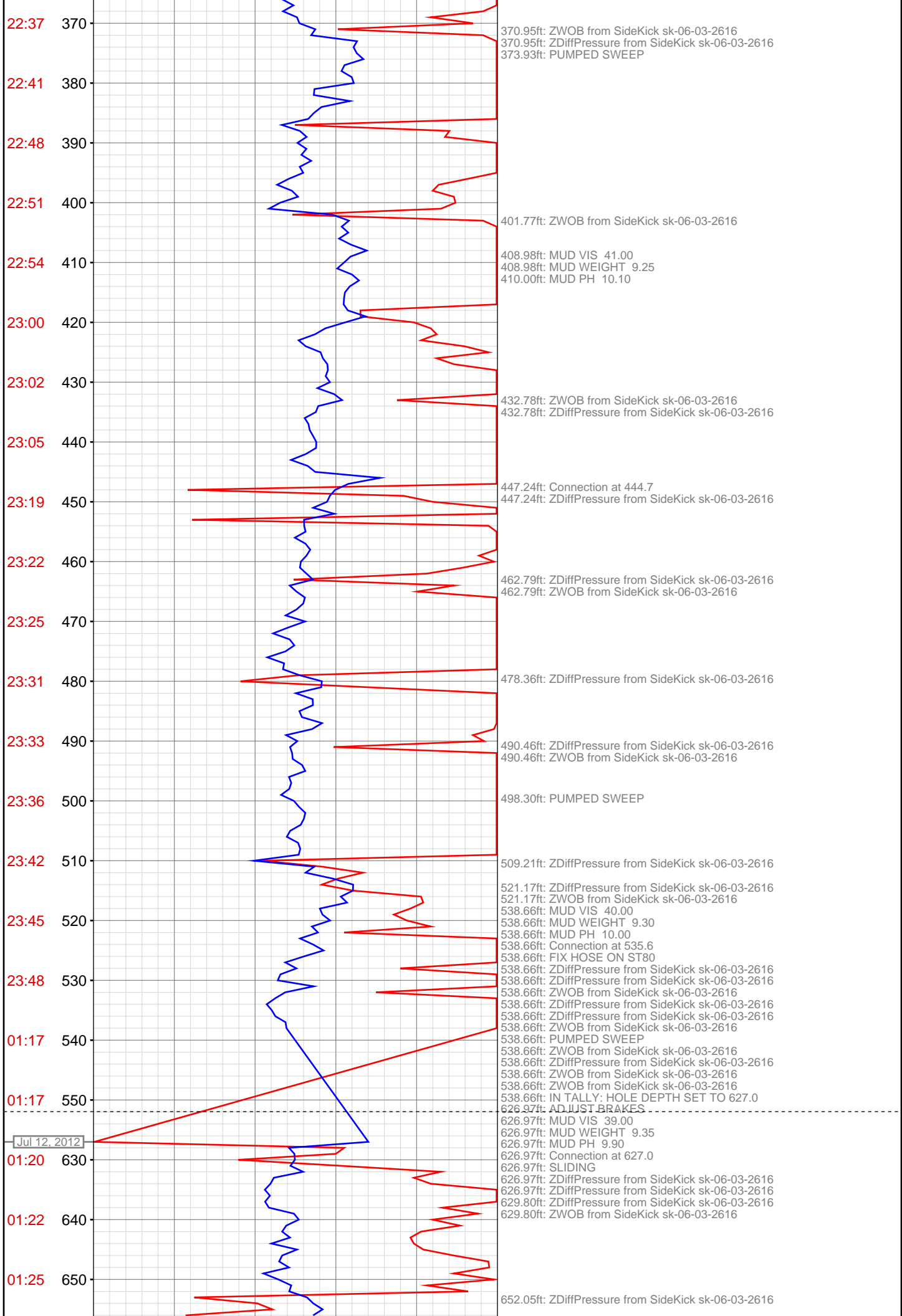
Mon Aug 13, 2012 13:44:50  
Well Dossier 1342008122  
Greg Veregin

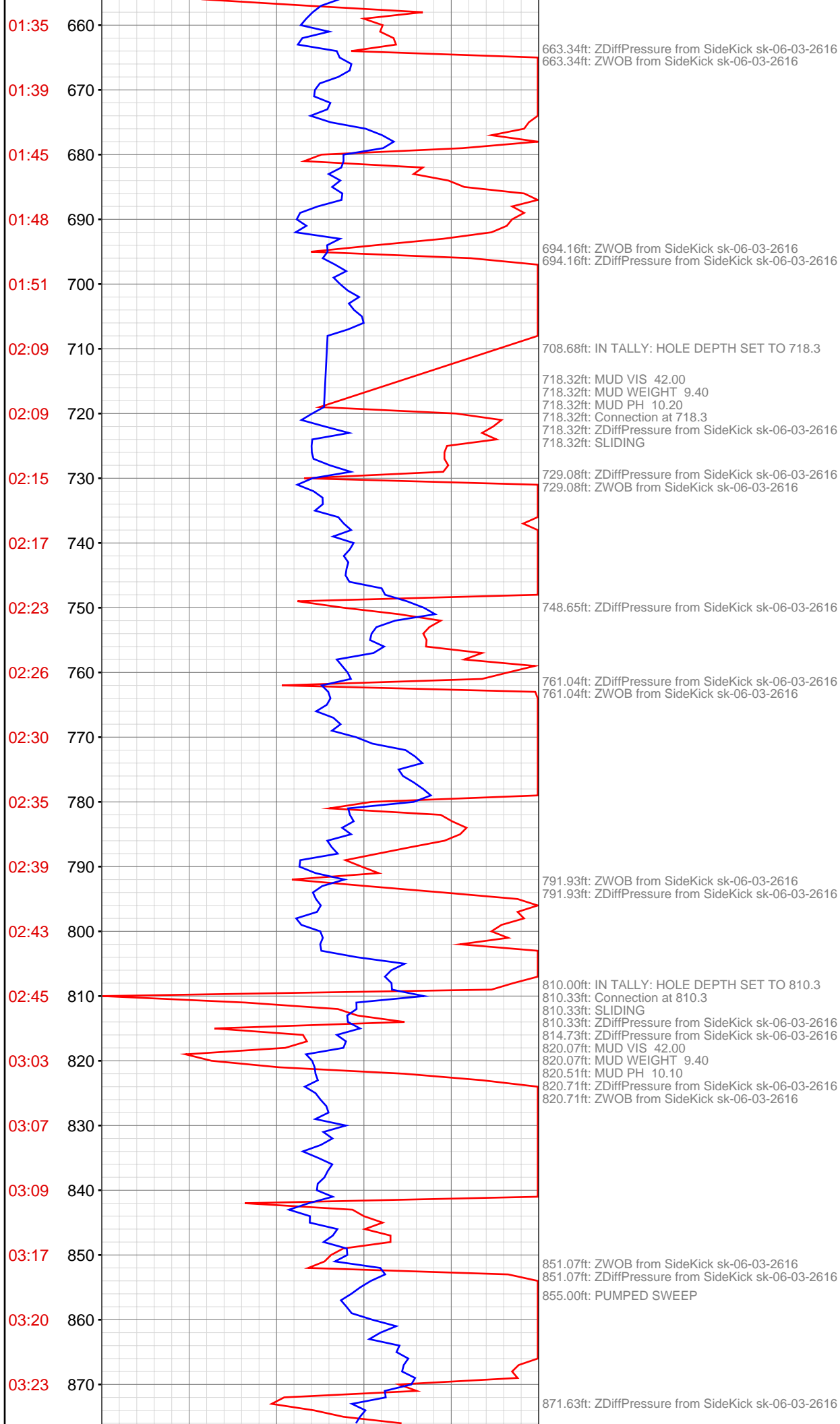
**OPERATOR:** EnCana Oil & Gas (USA), Inc.  
**WELL:** MCU Fee 17-9D  
**FIELD:**  
**LOCATION:** SEC 16 TWN 7S RNG 93W  
**COUNTRY:** USA  
**RIG:** Pat-UTI 308

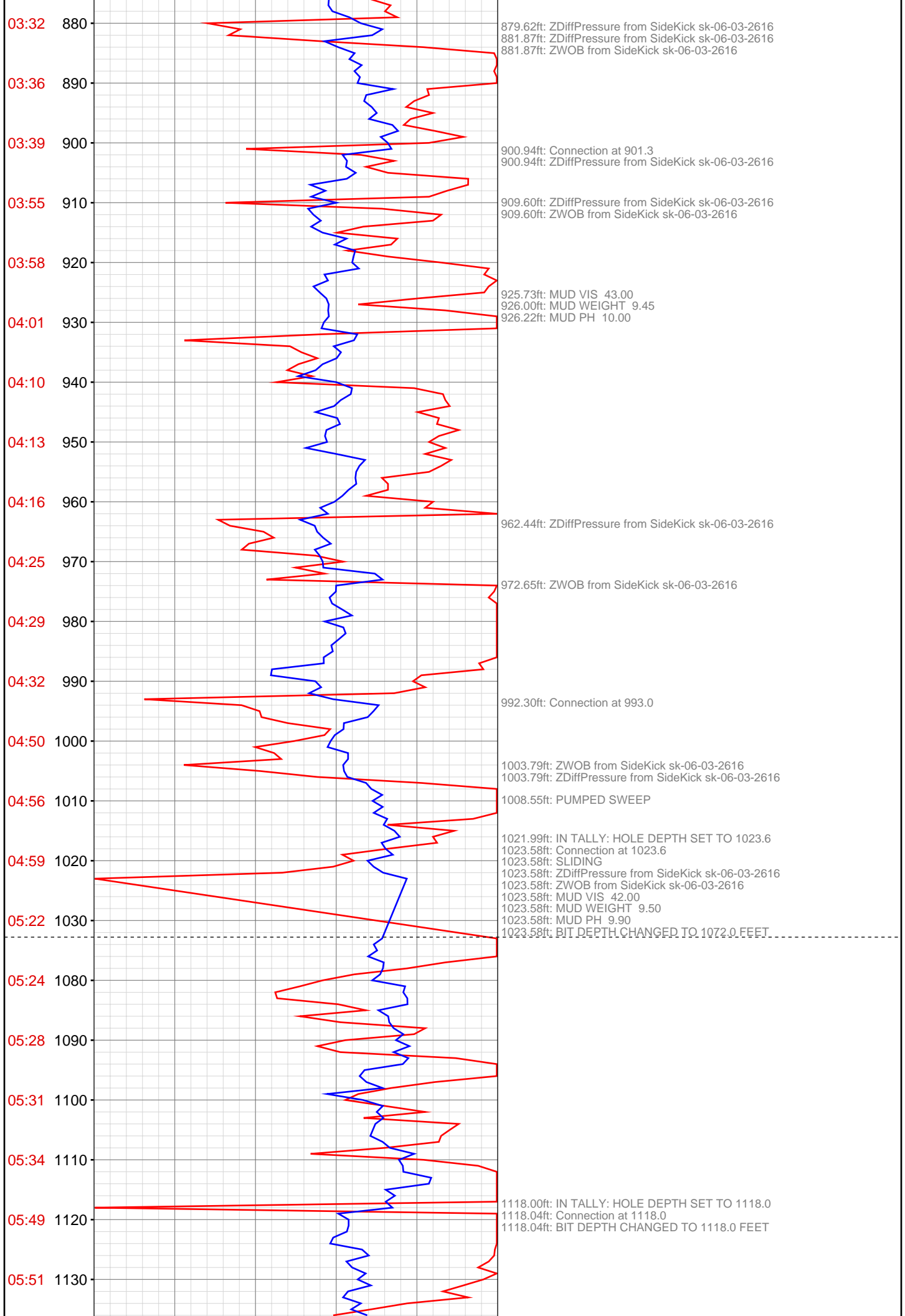
**CONTRACTOR:** Patterson-UTI Drilling Company  
**UNIQUE WELL ID:** 05-045-20705  
**SPUD DATE:** Jul 11, 2012 14:30  
**RELEASE DATE:**

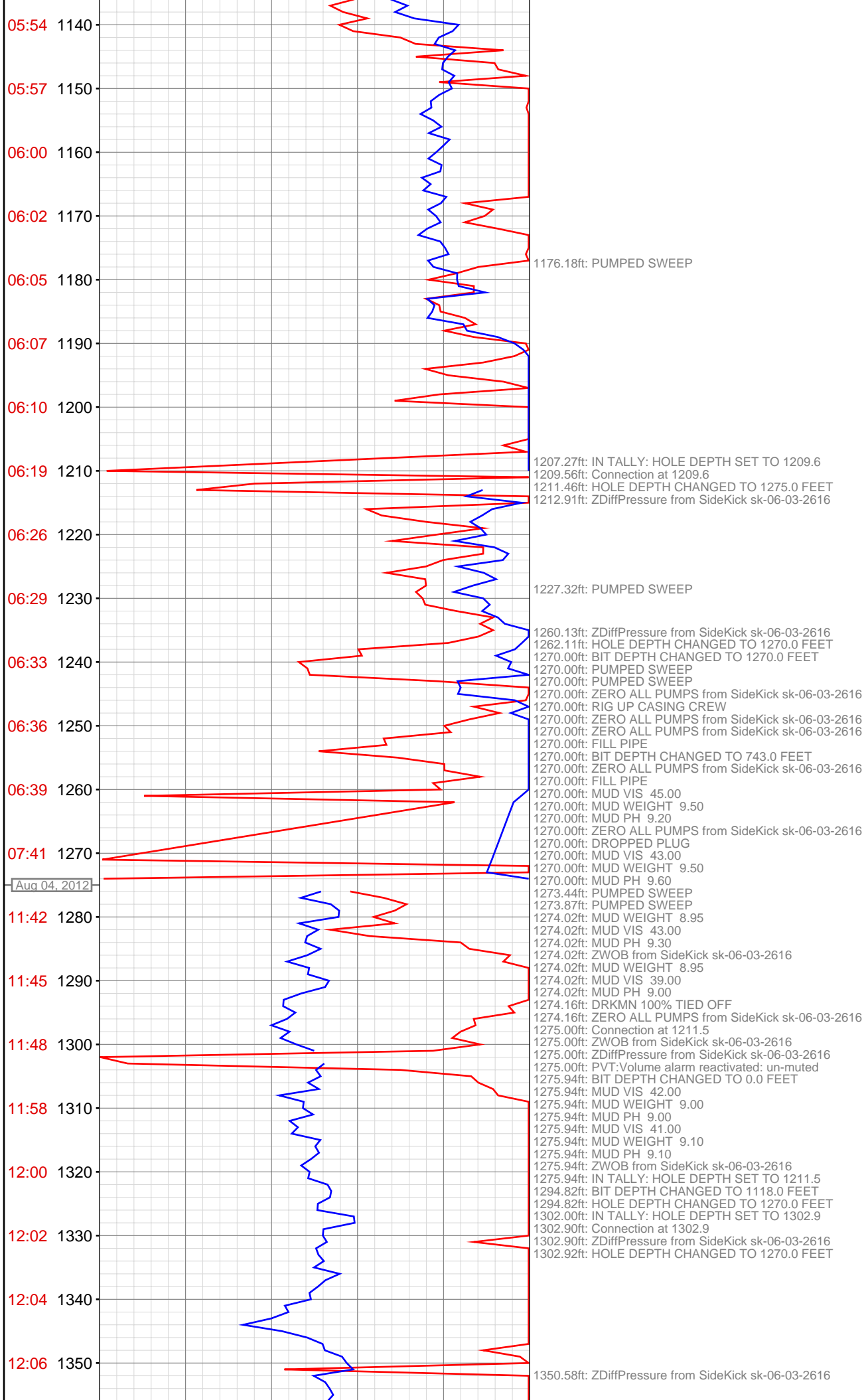


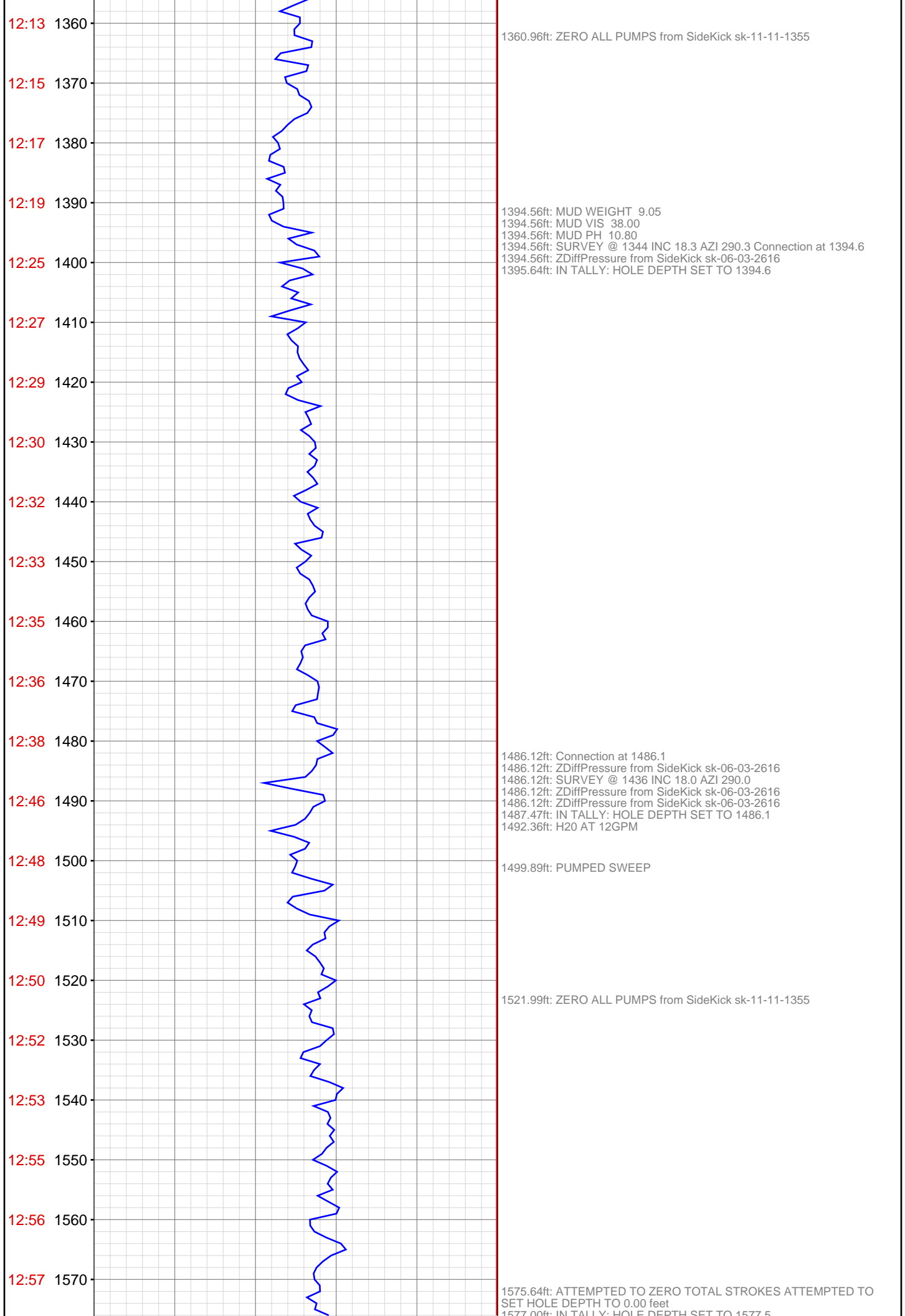


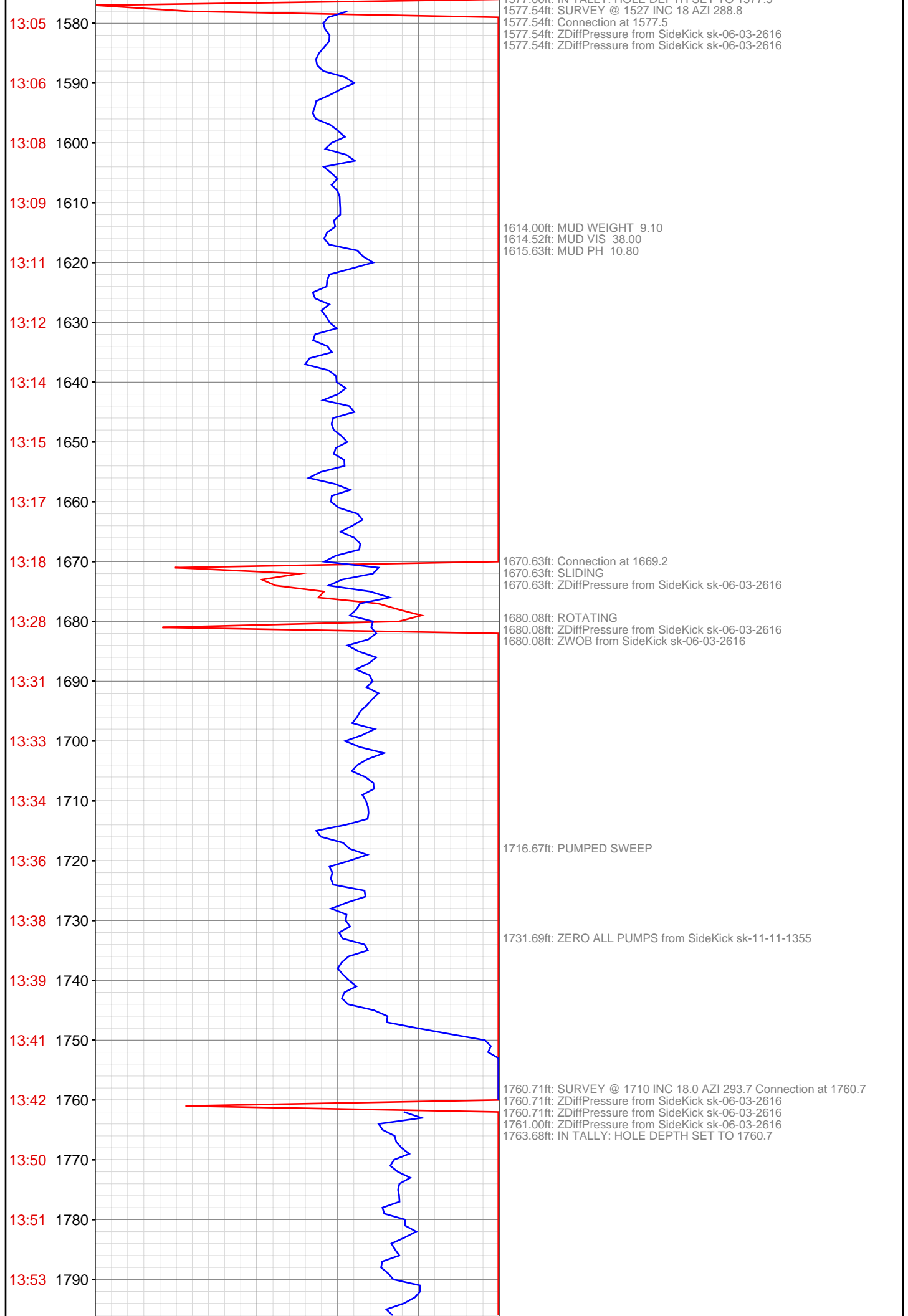




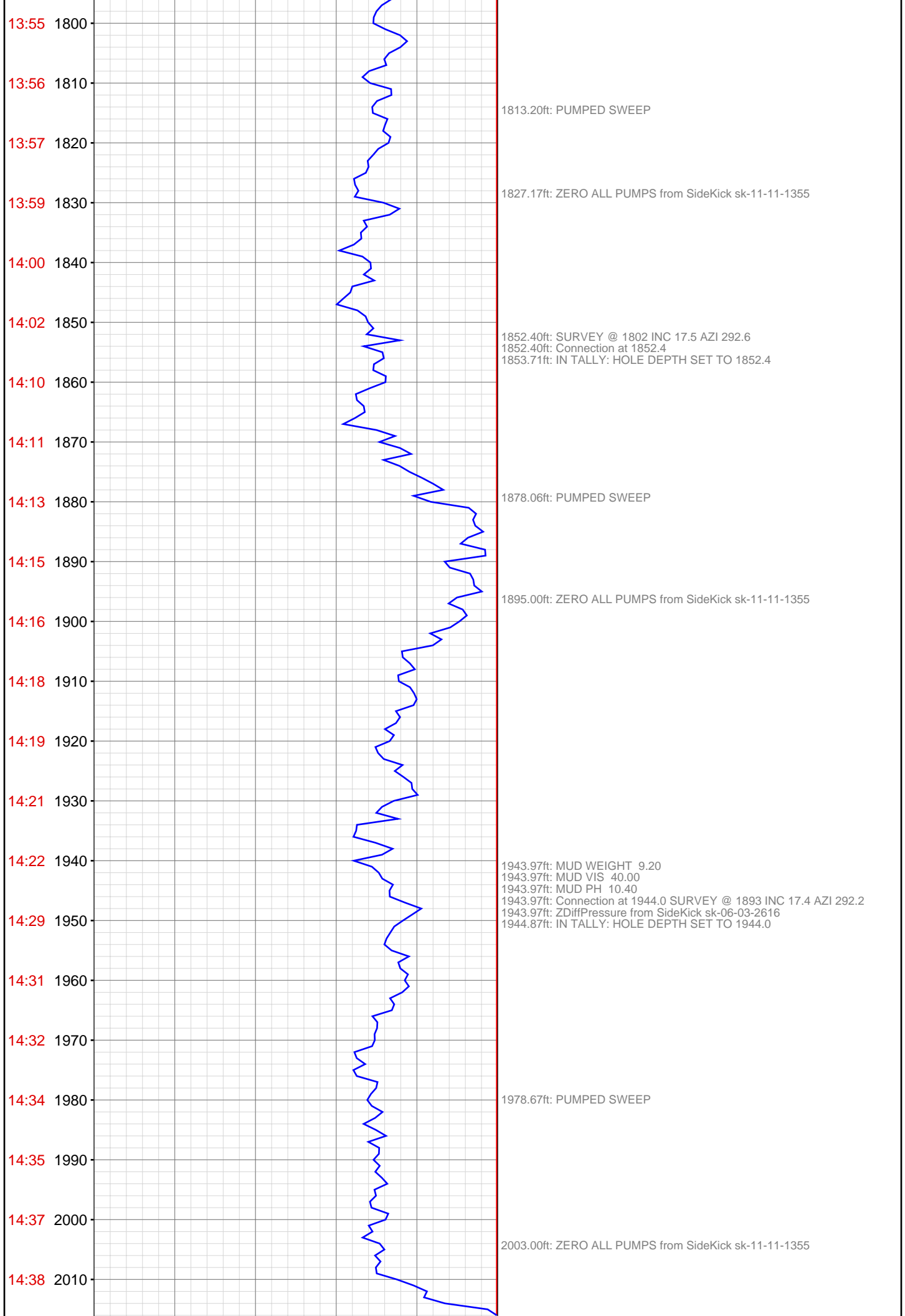


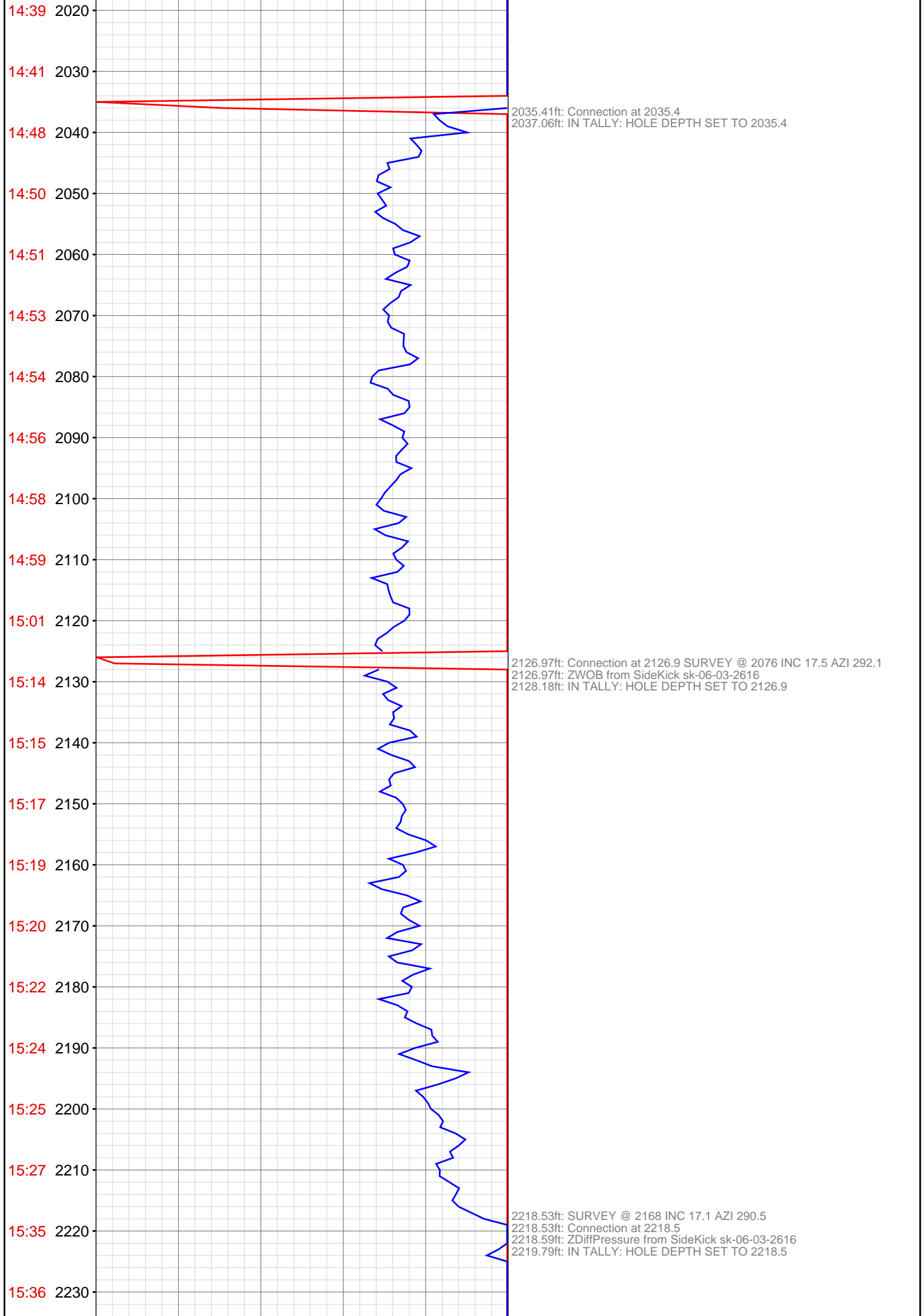


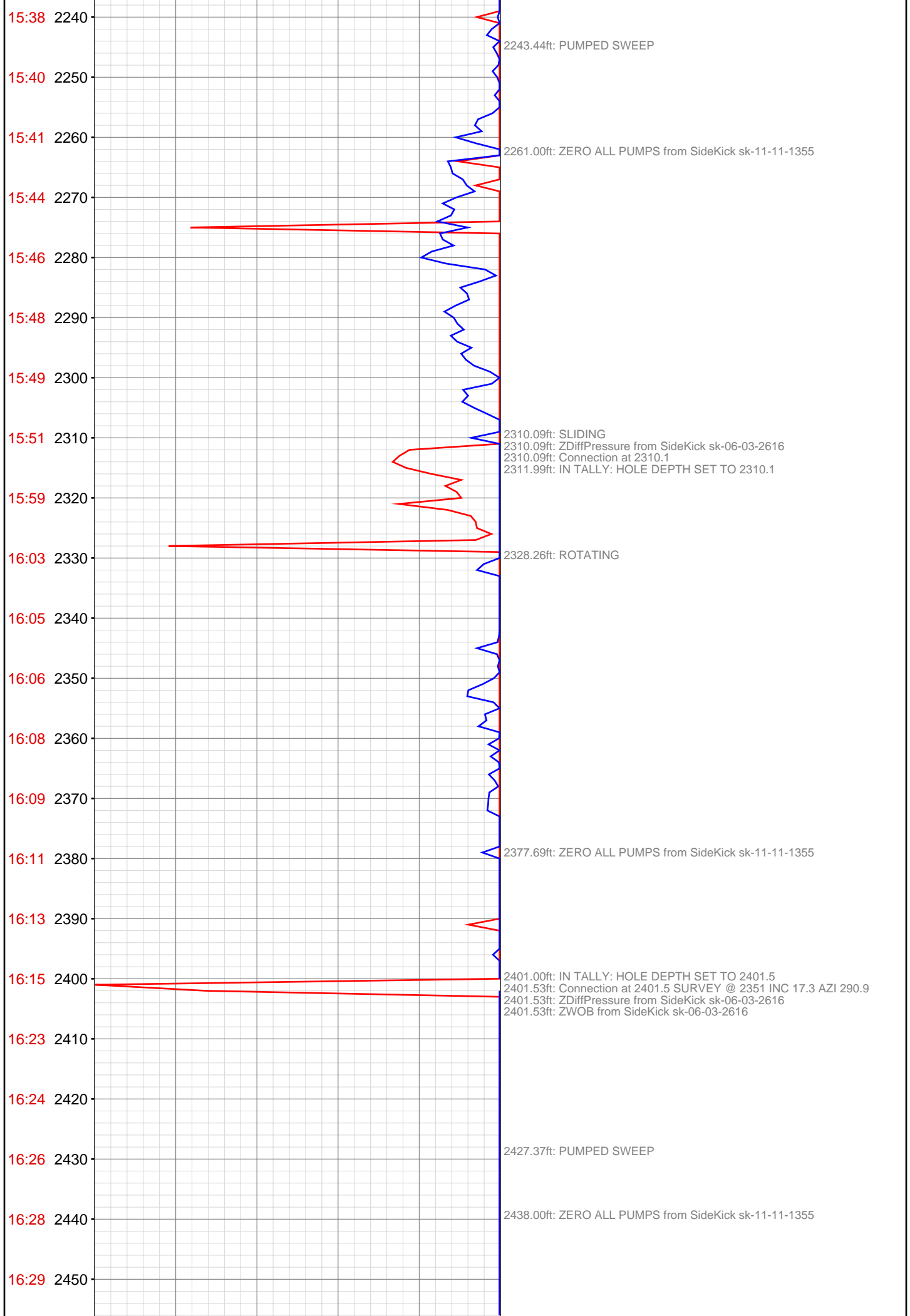


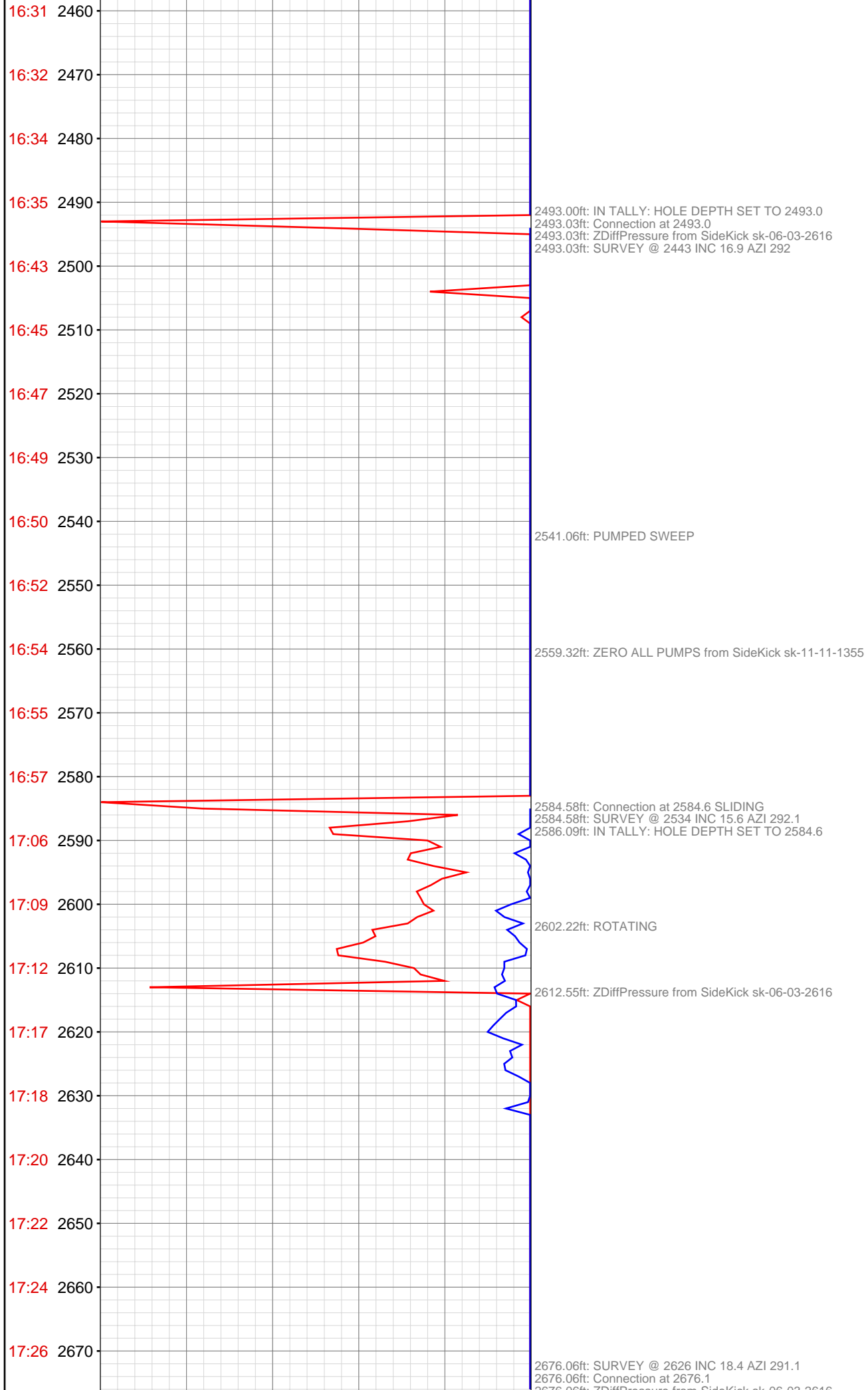


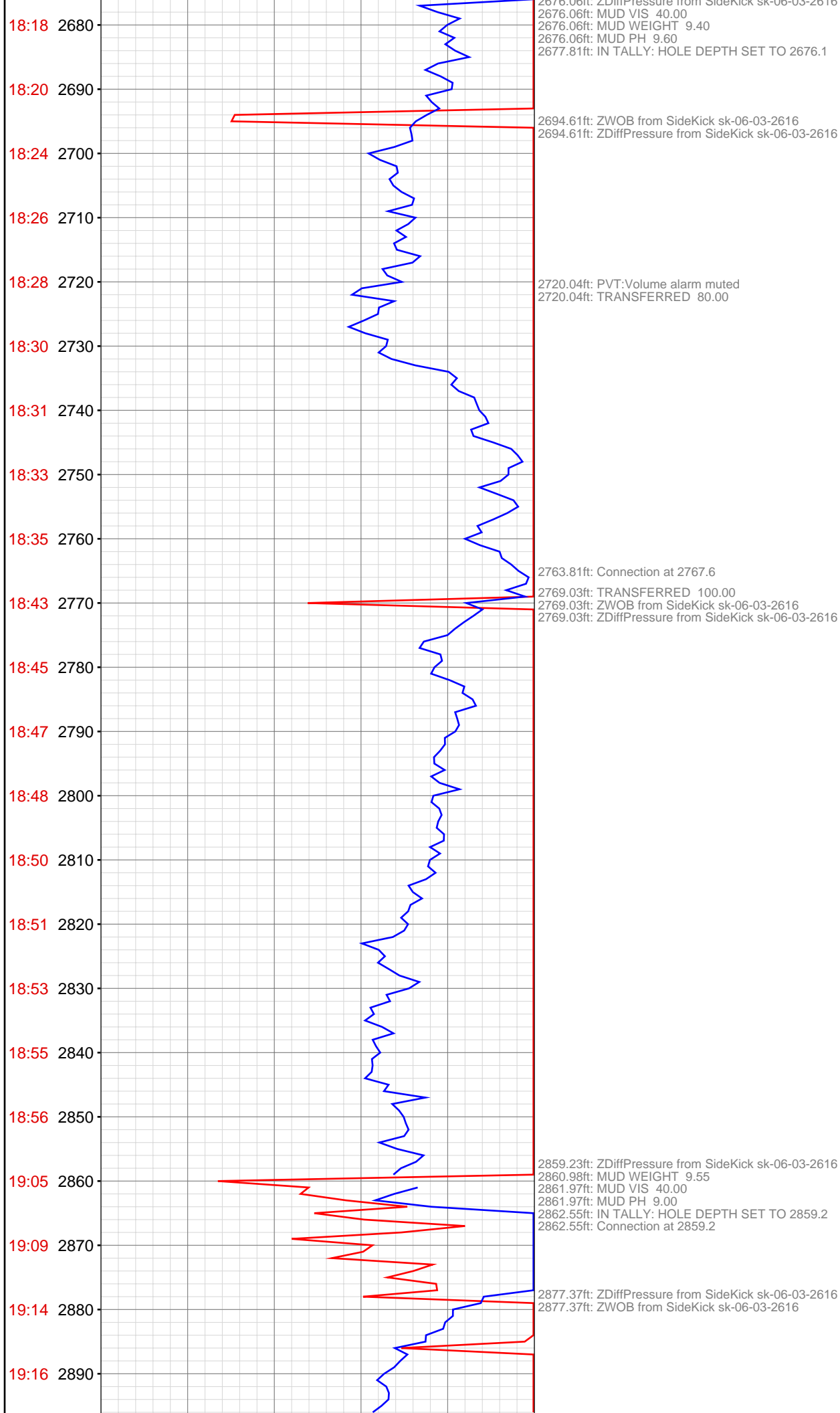


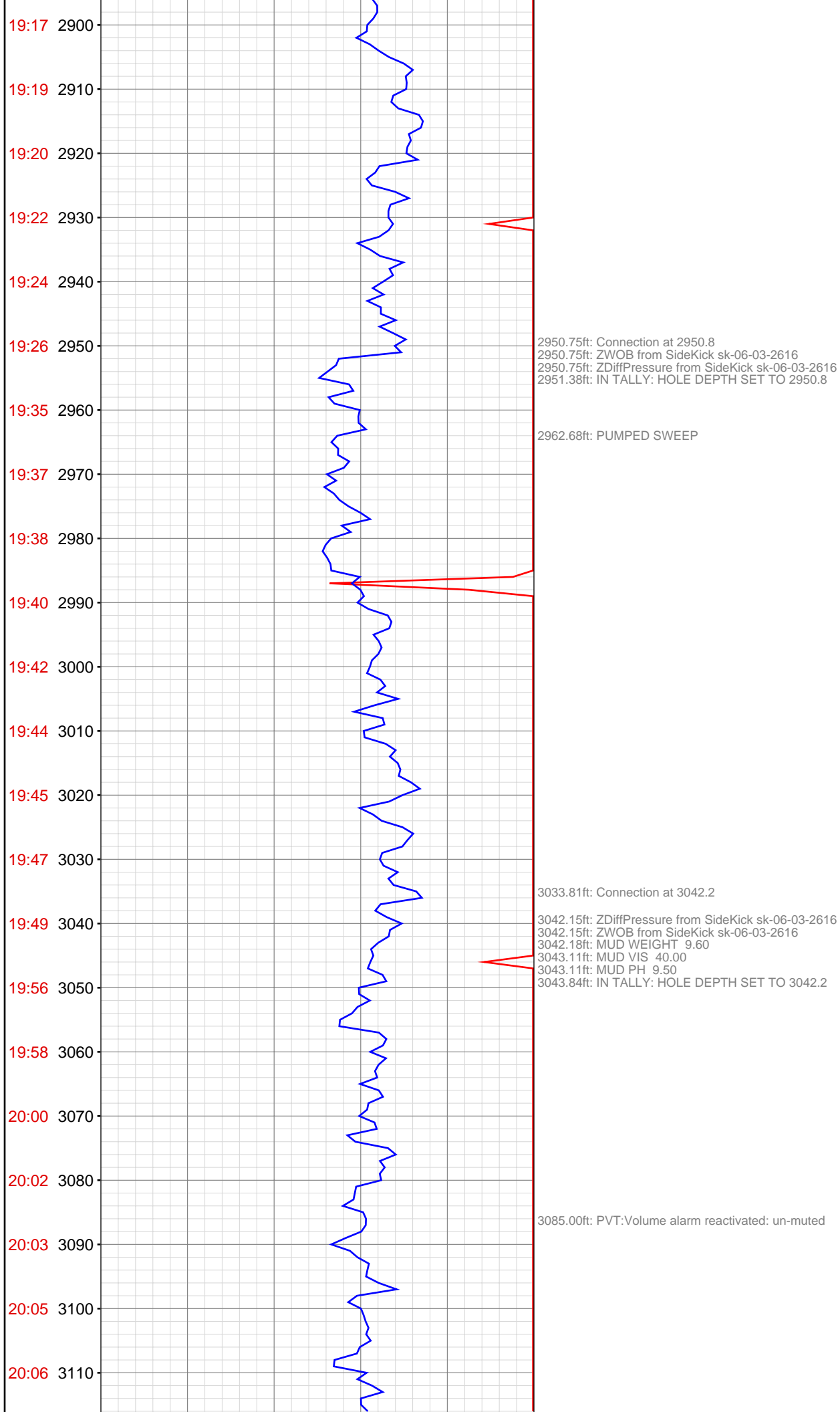


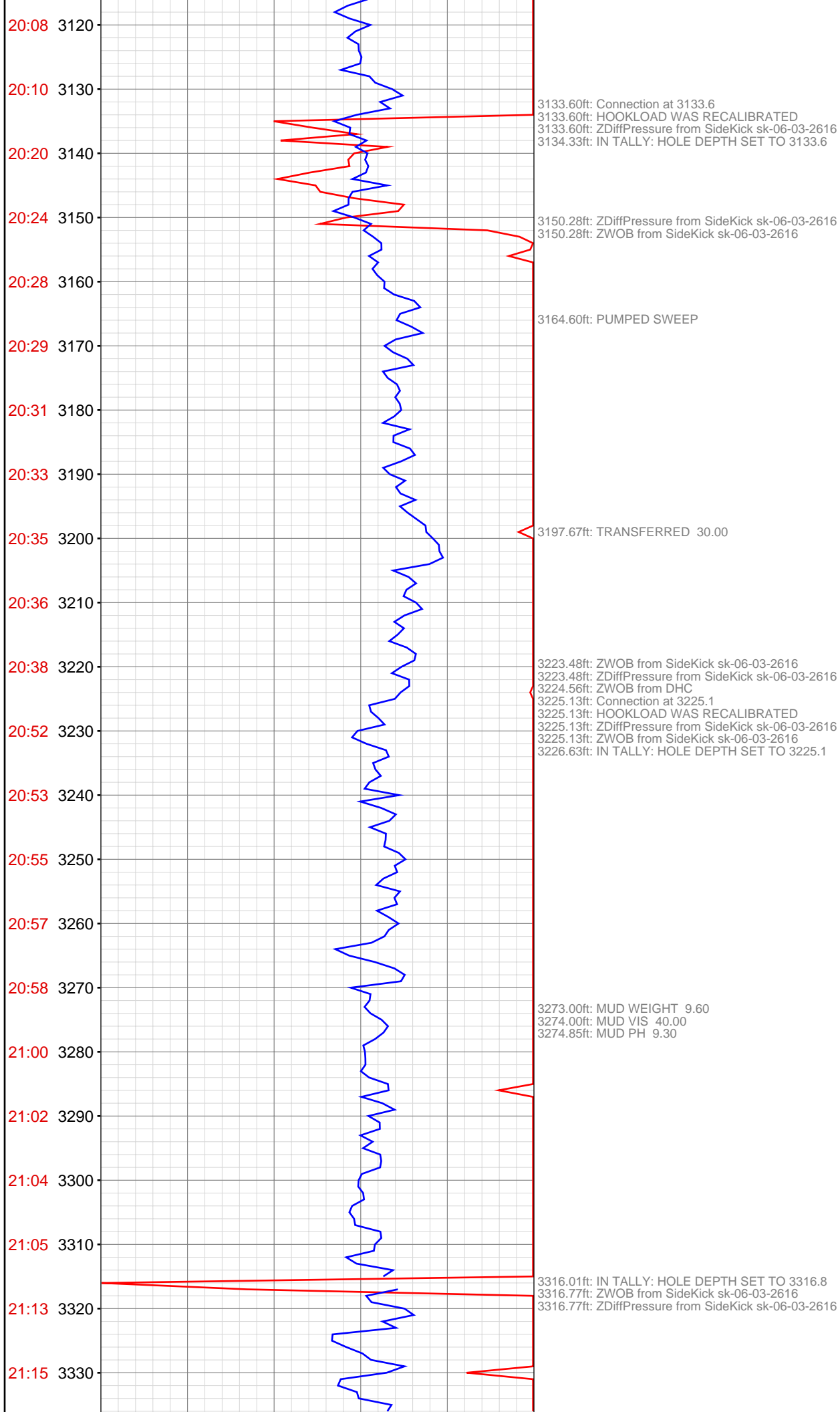


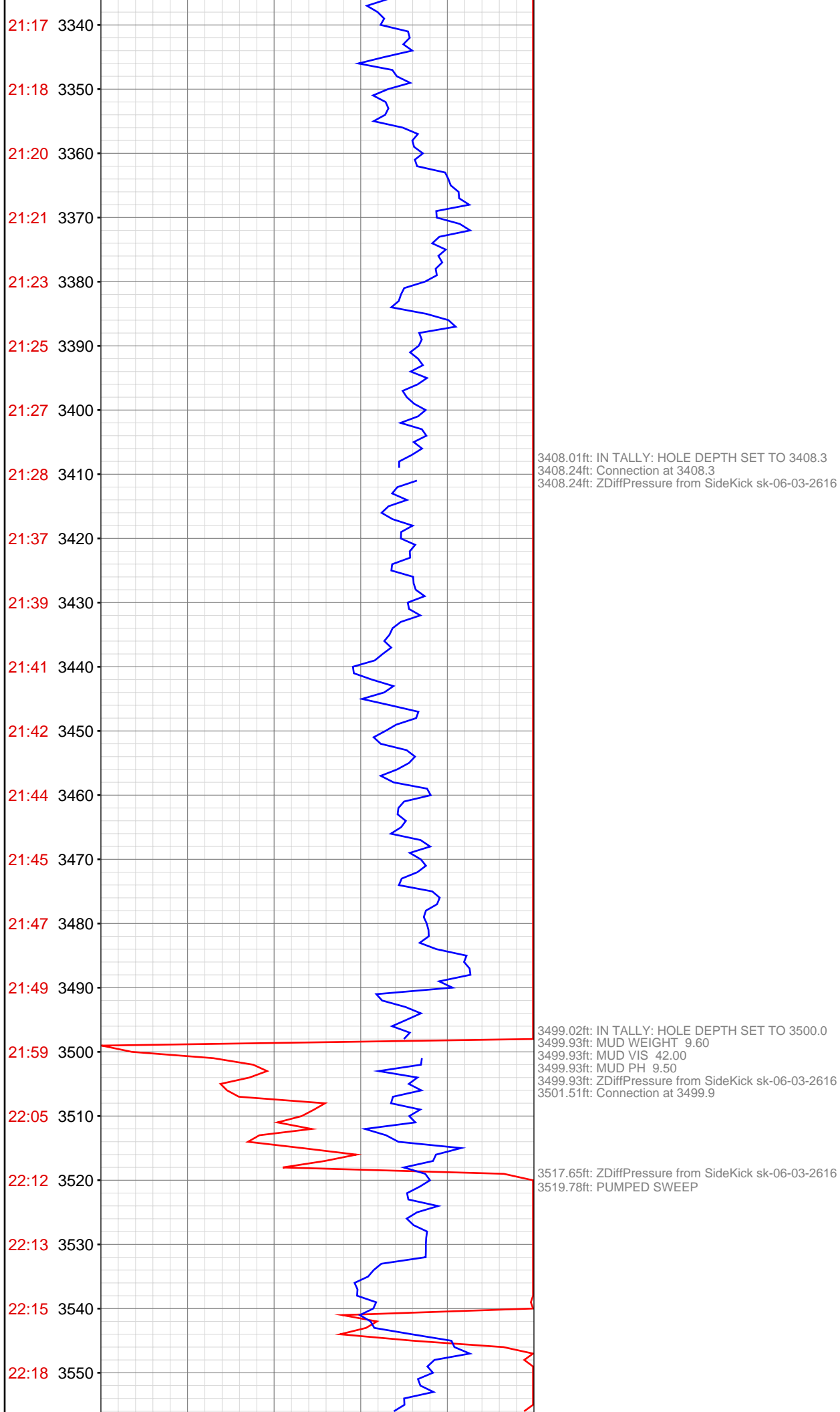




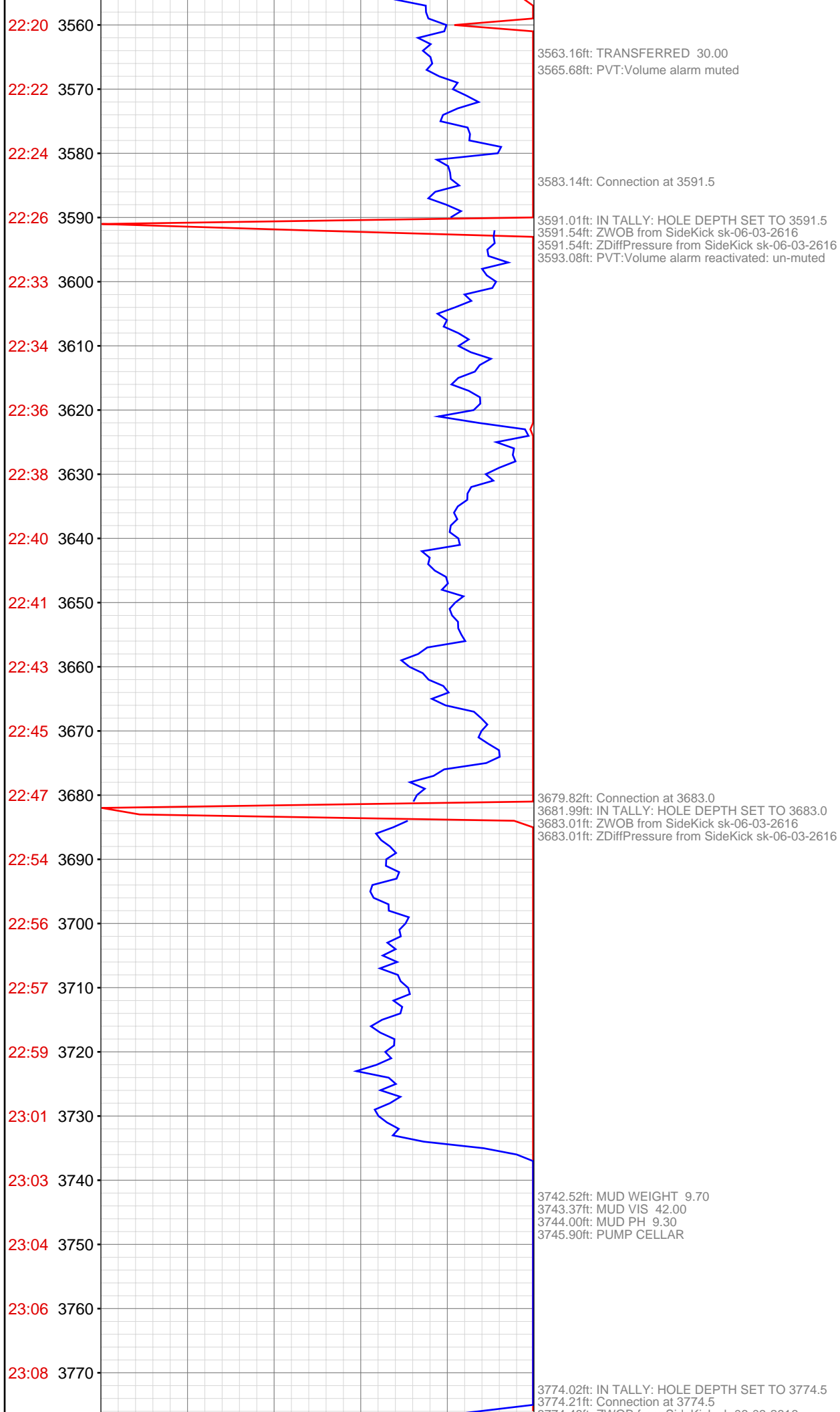


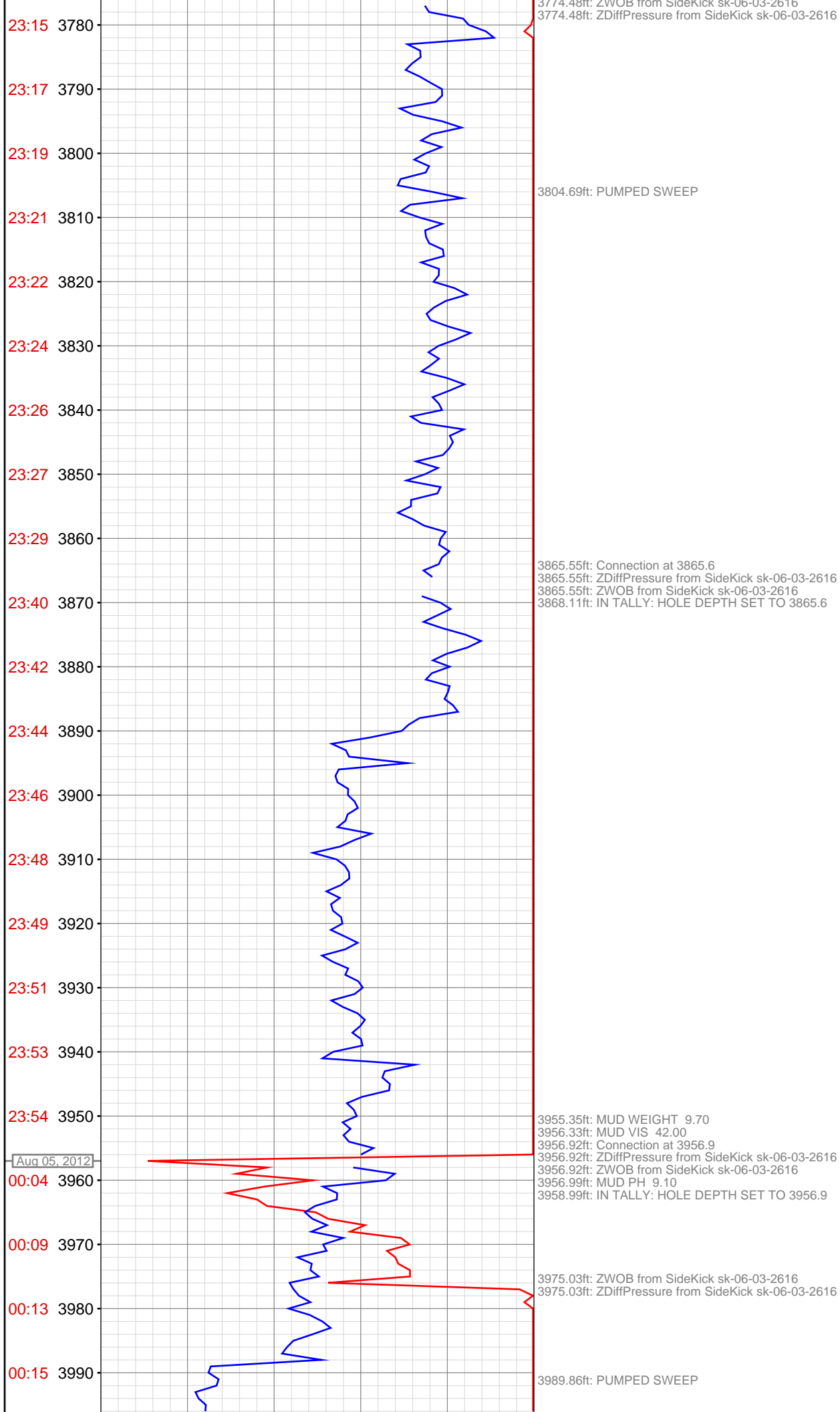


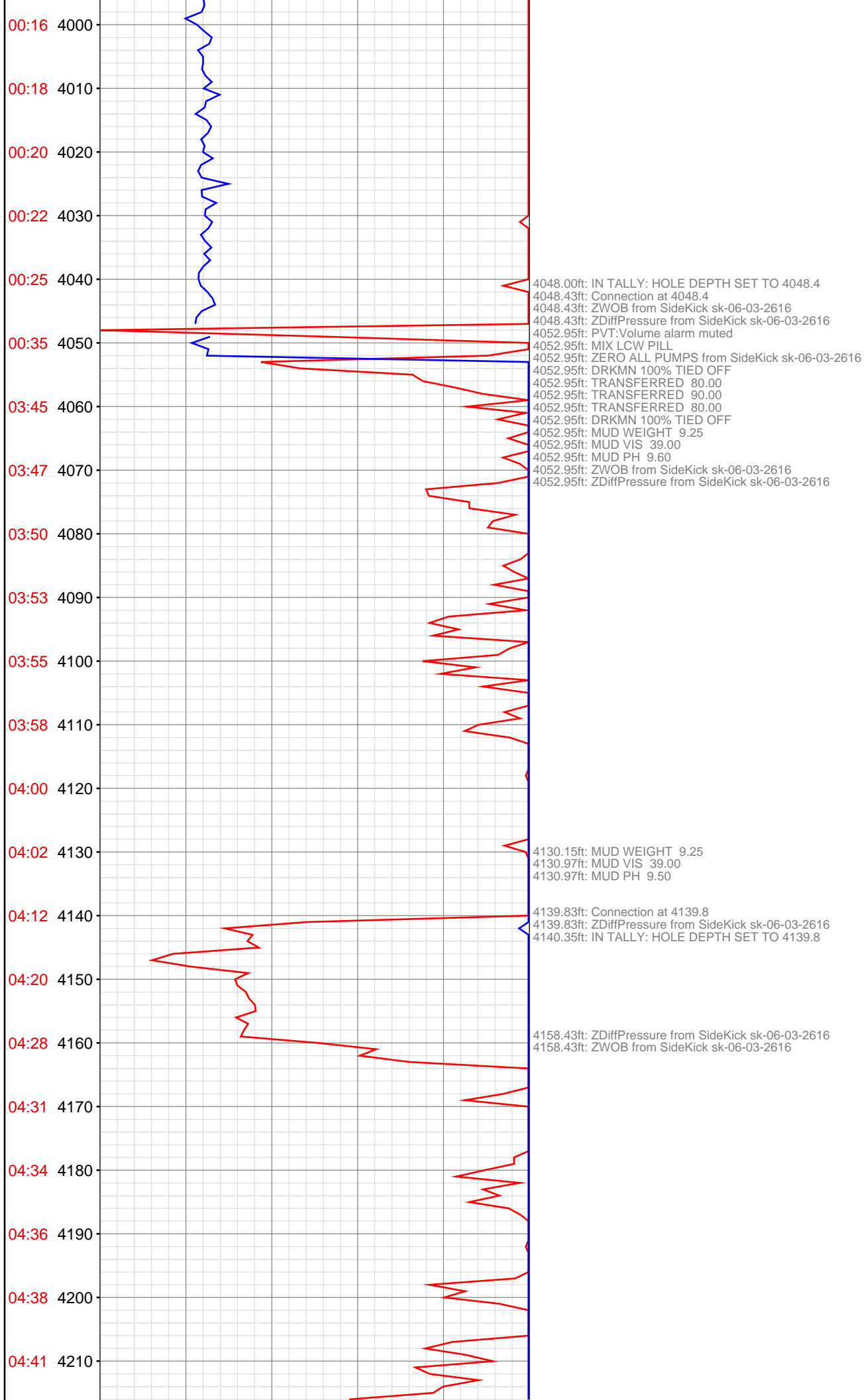


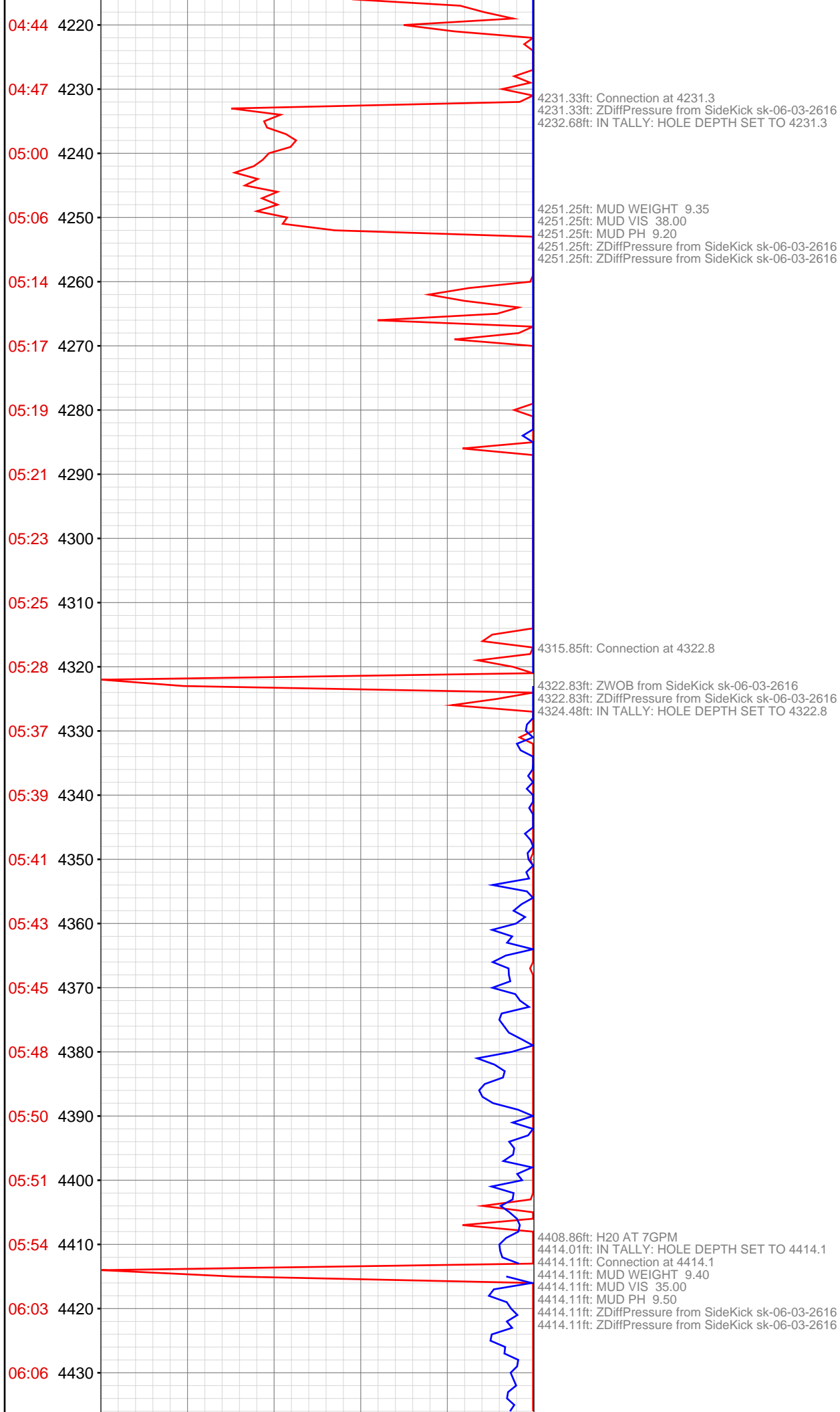


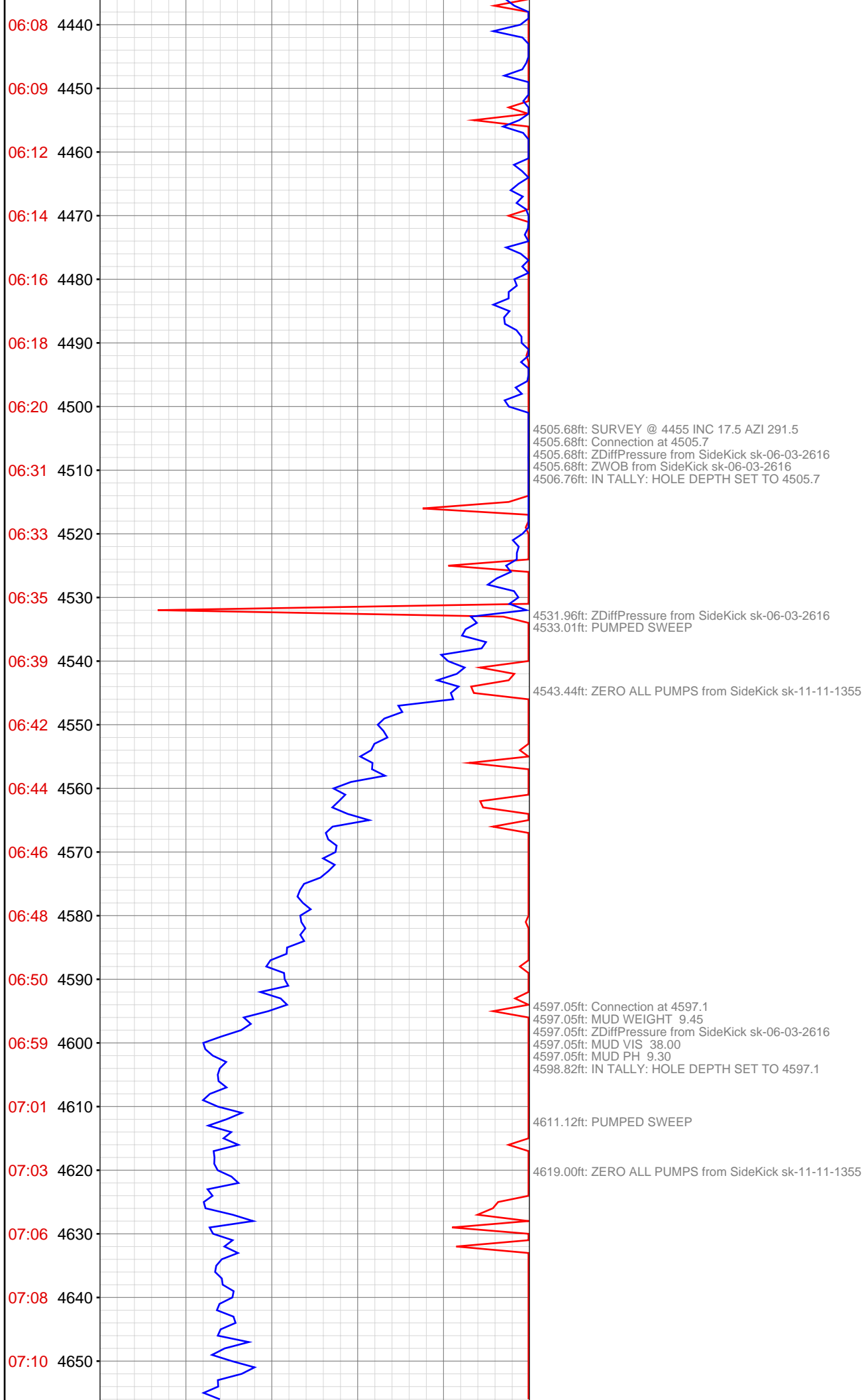


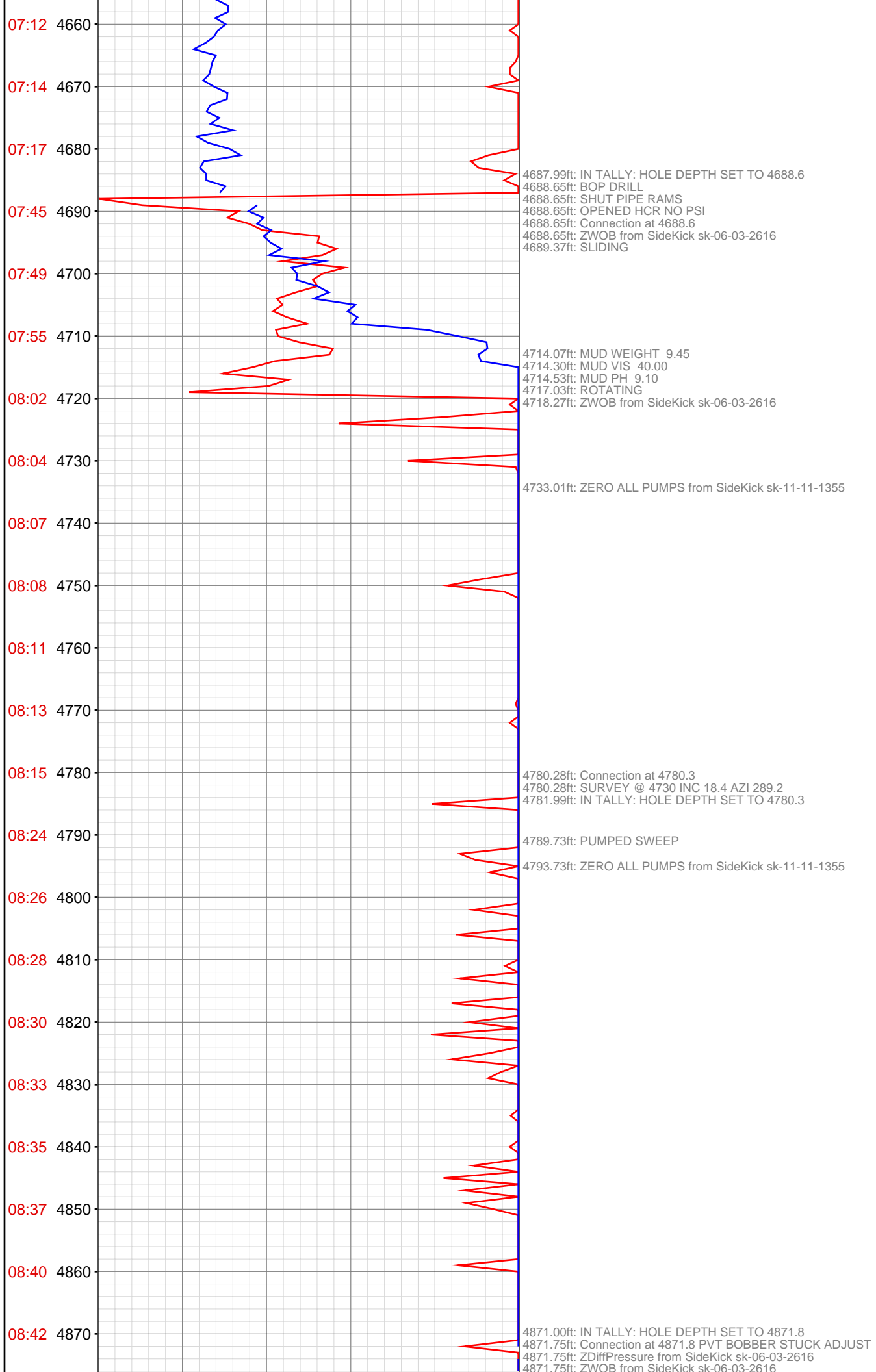


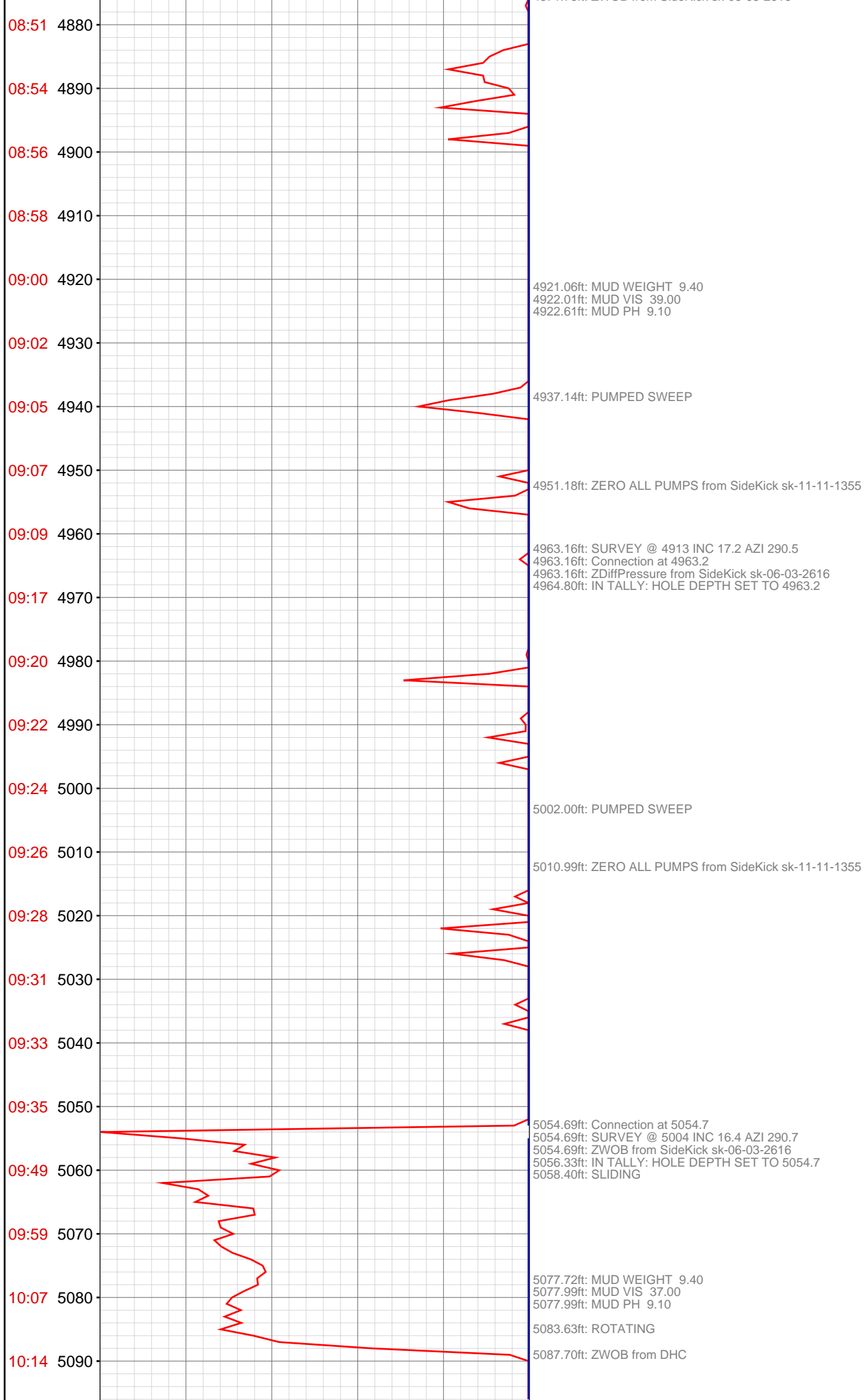


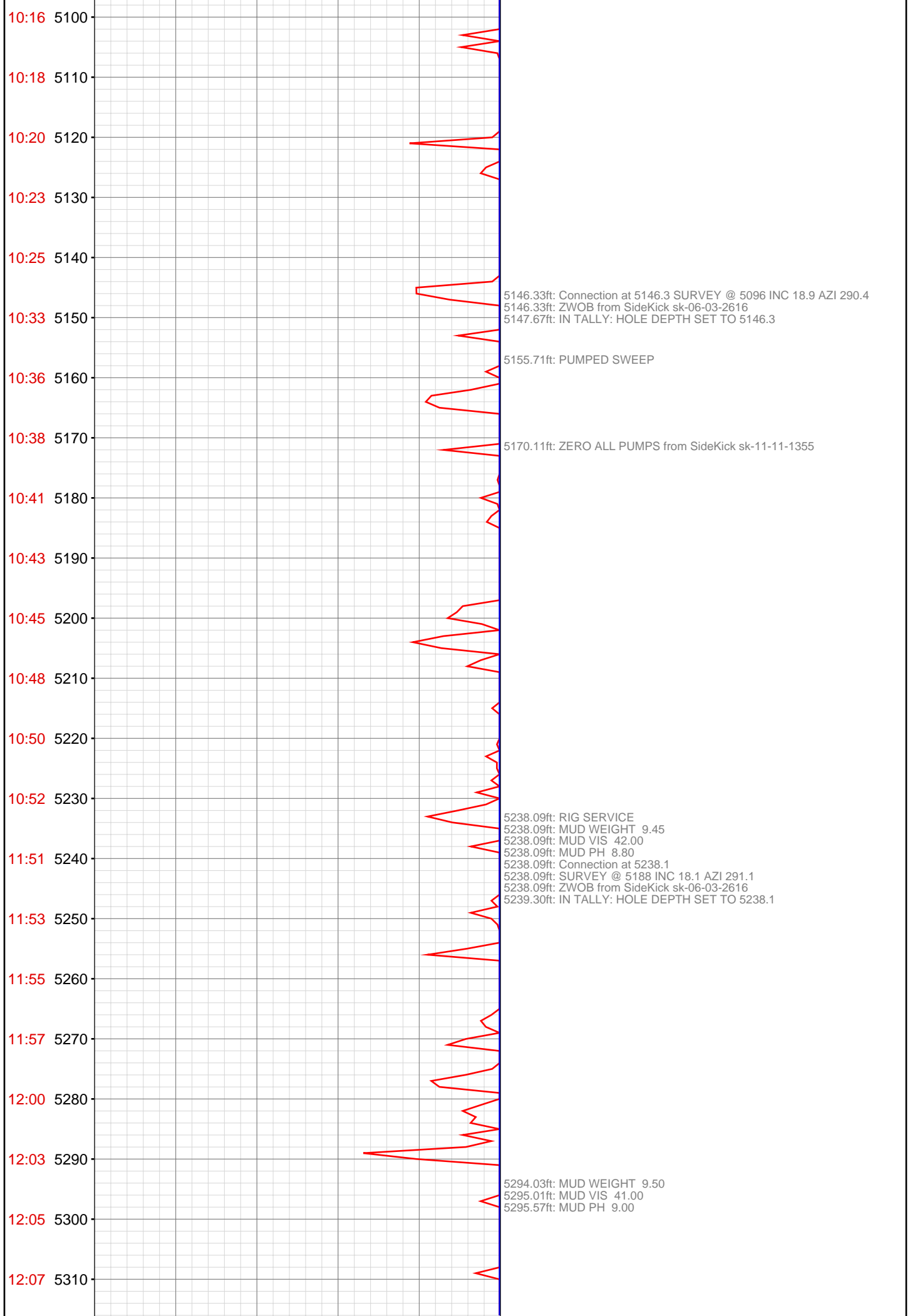




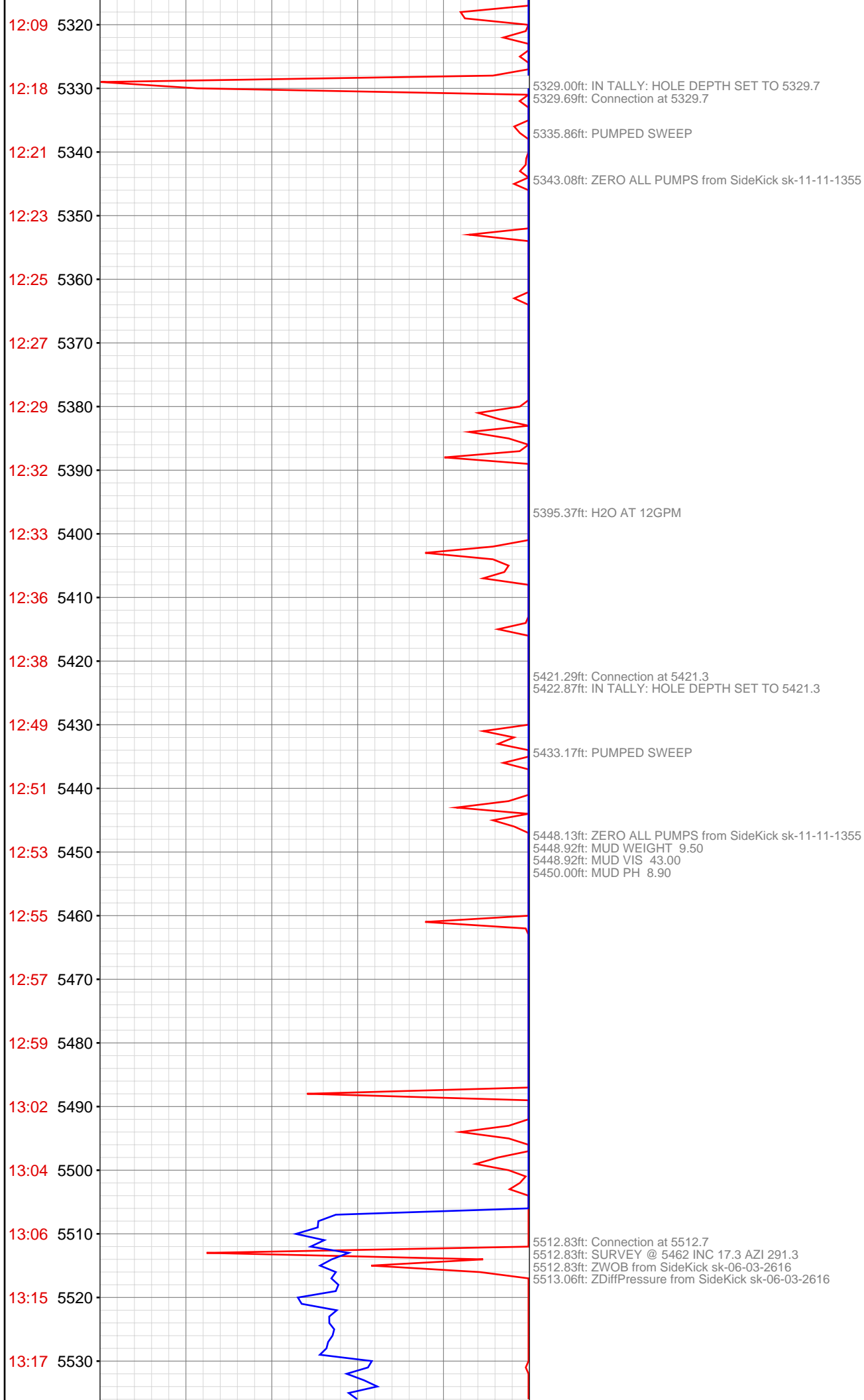


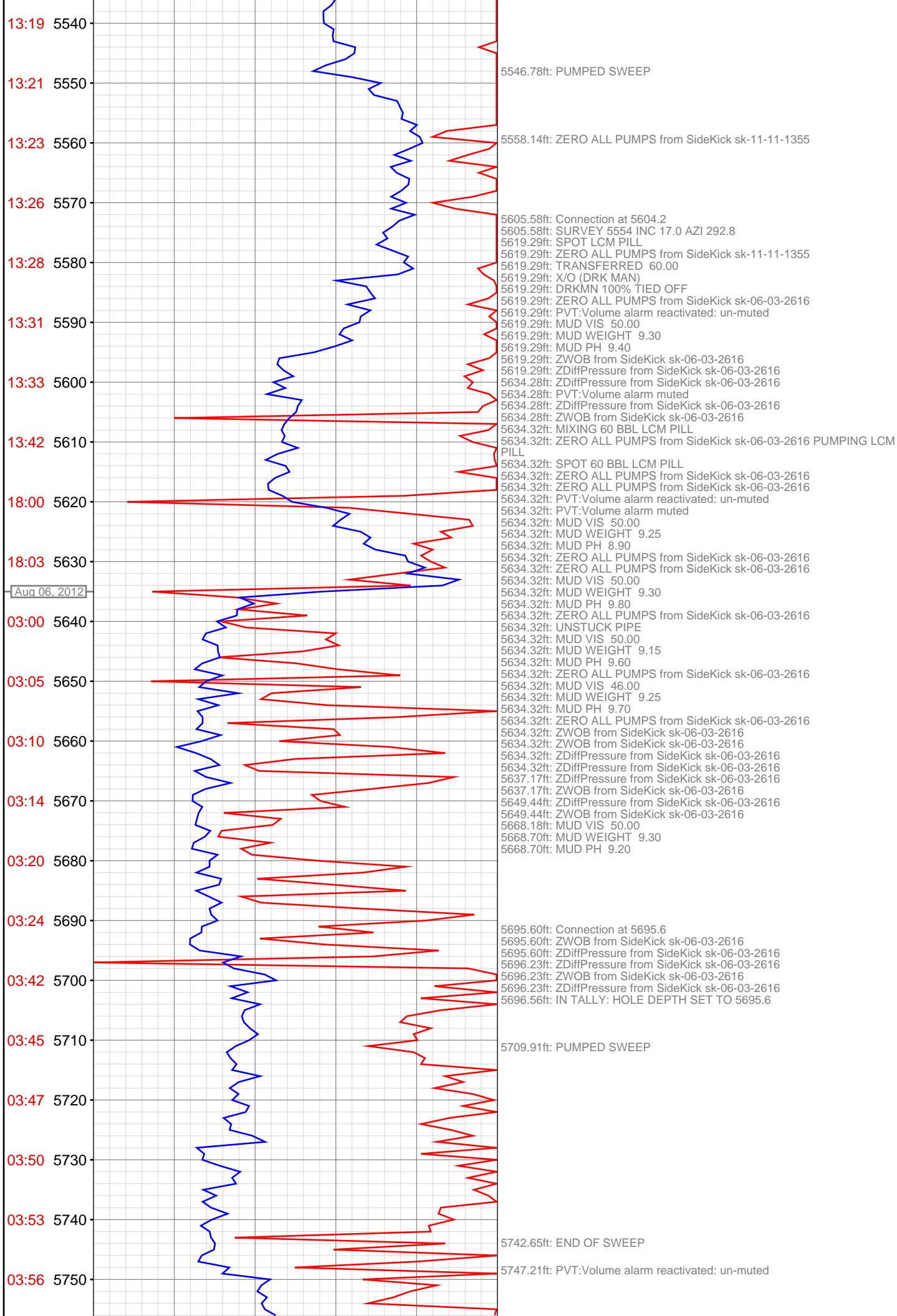


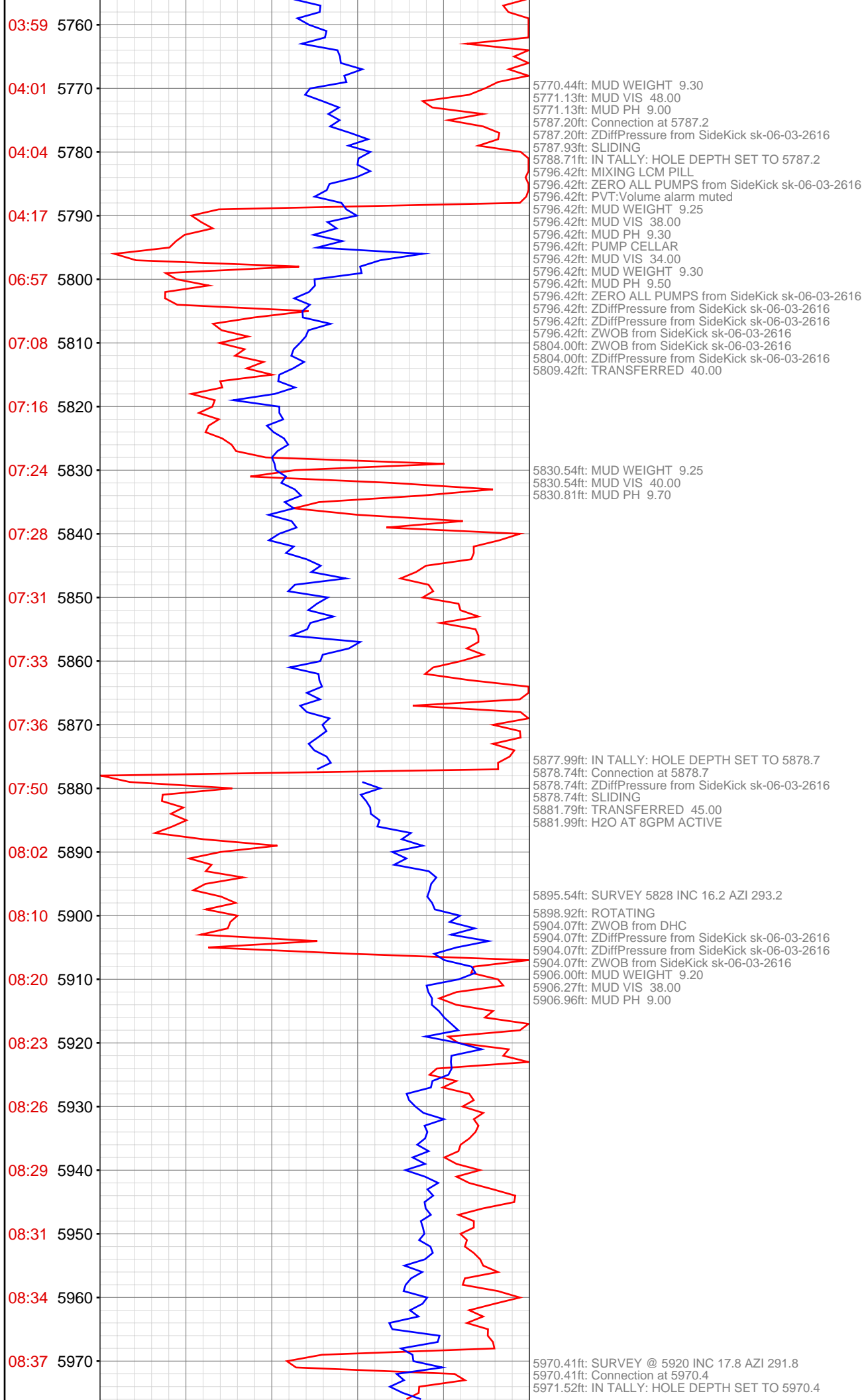


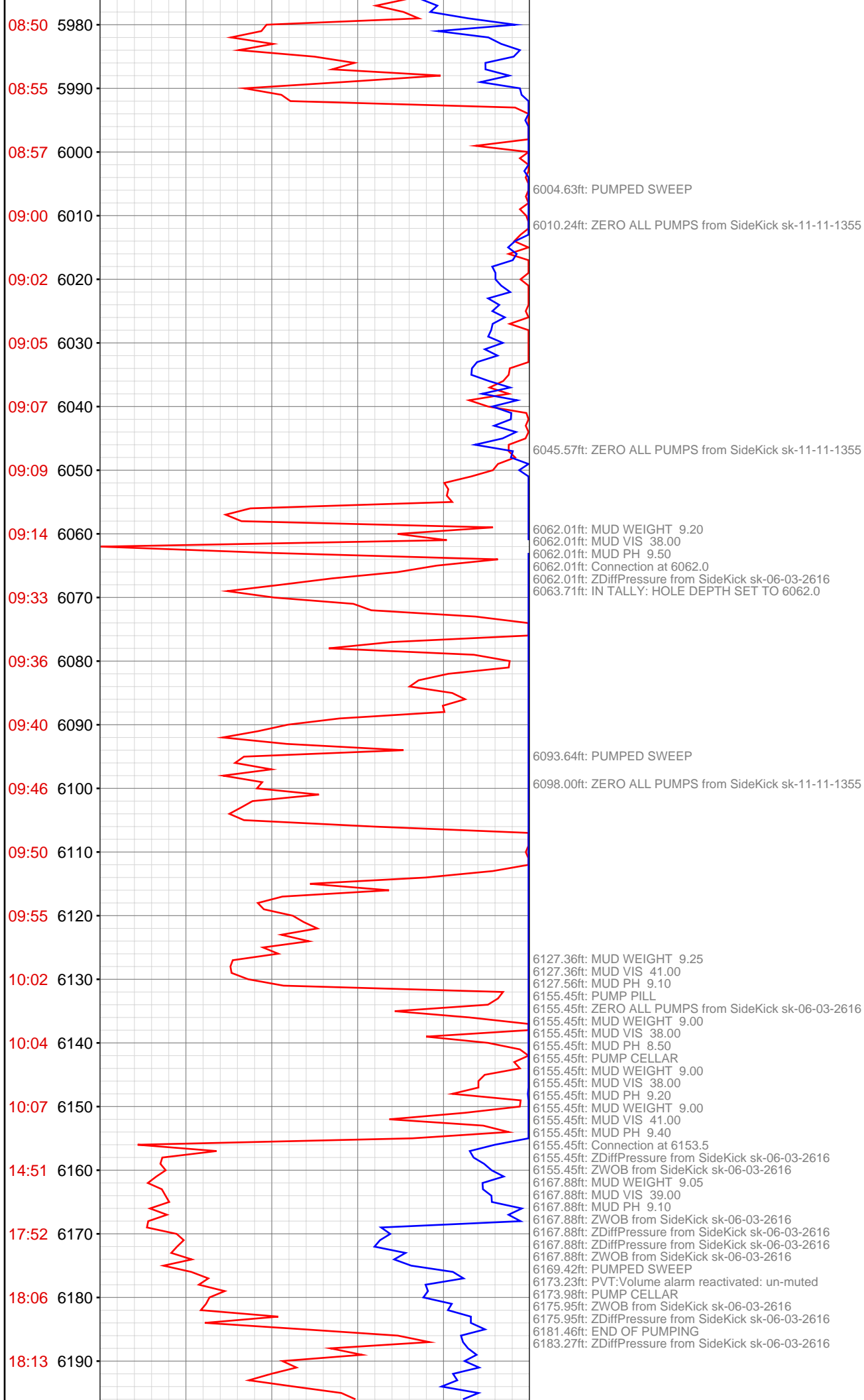


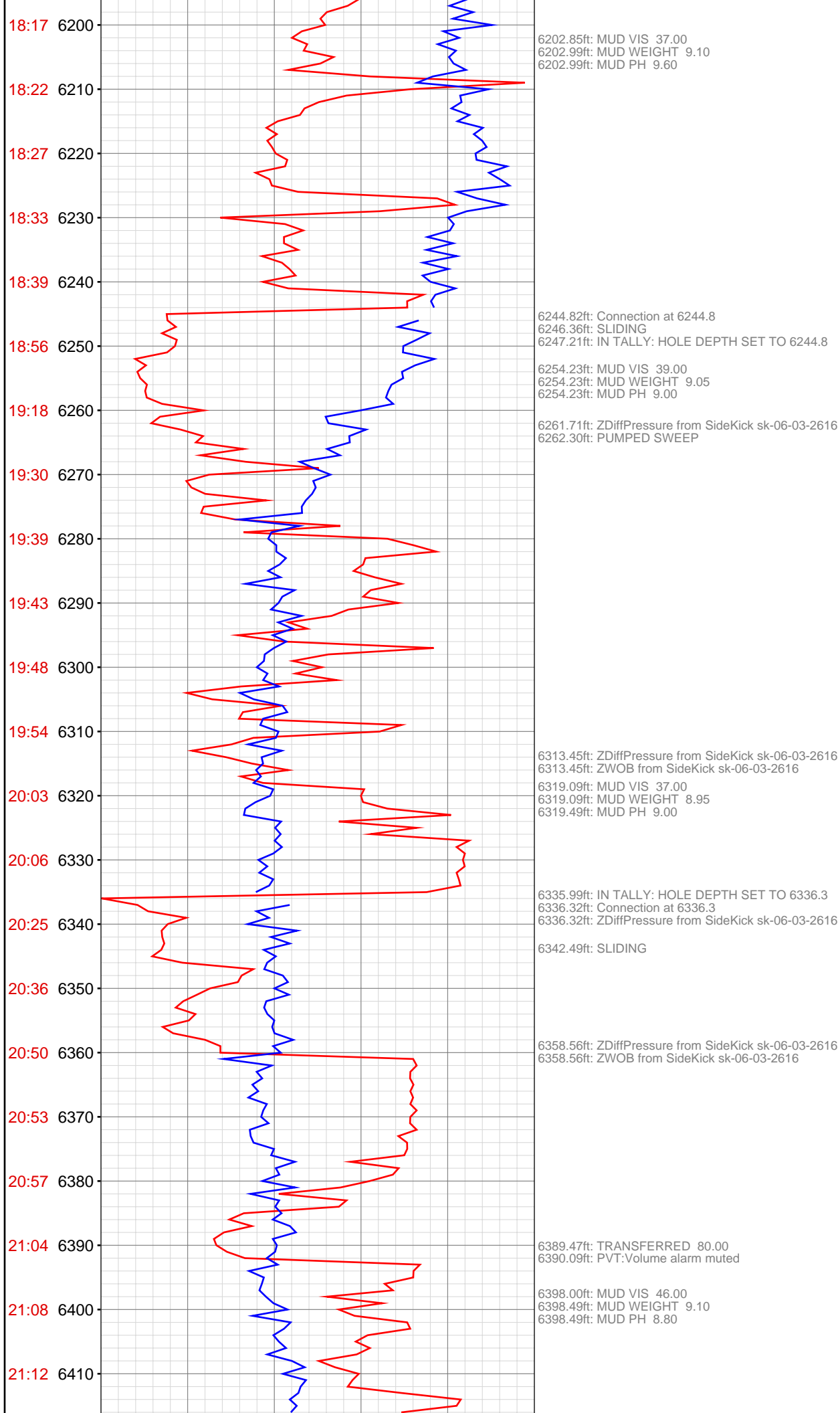


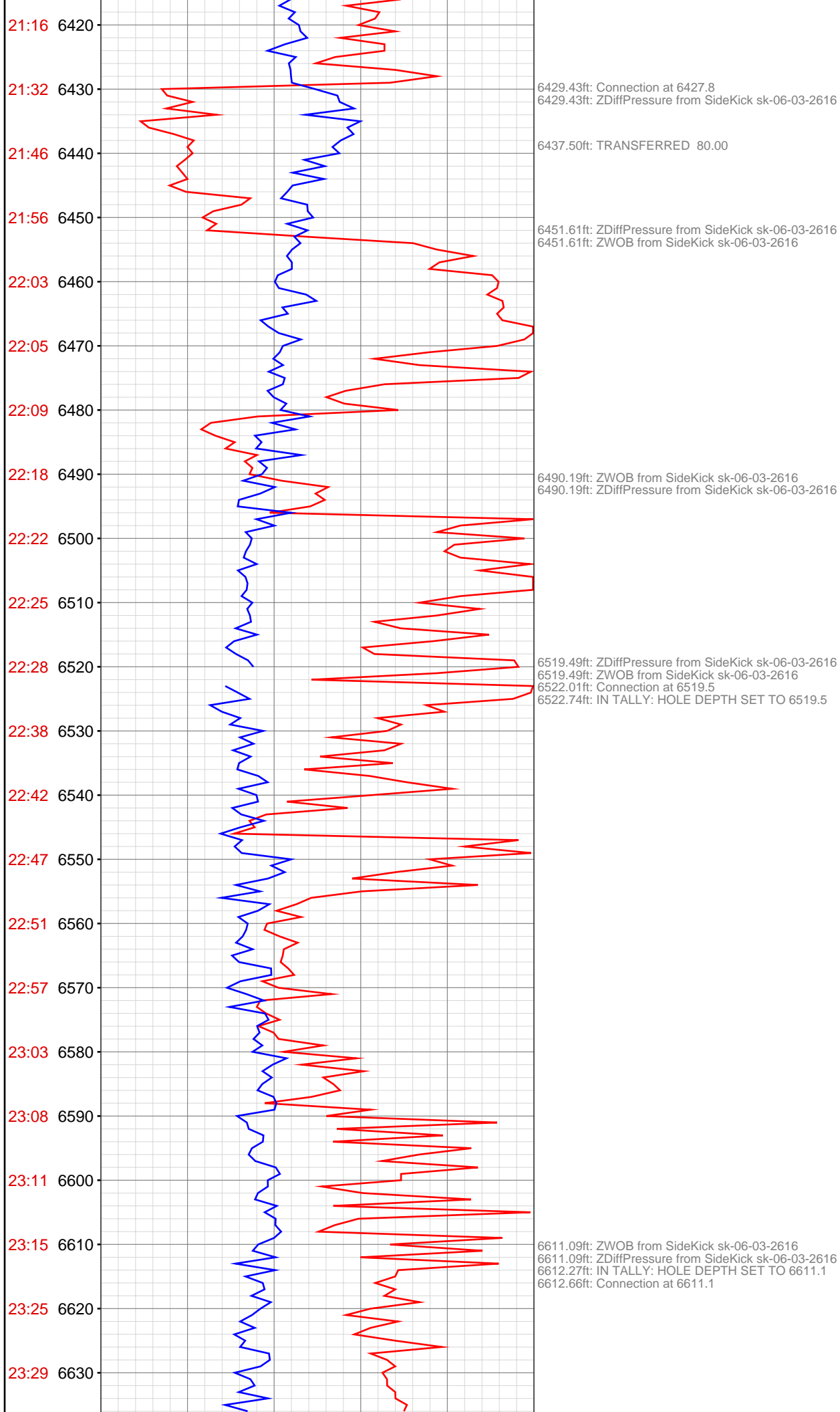


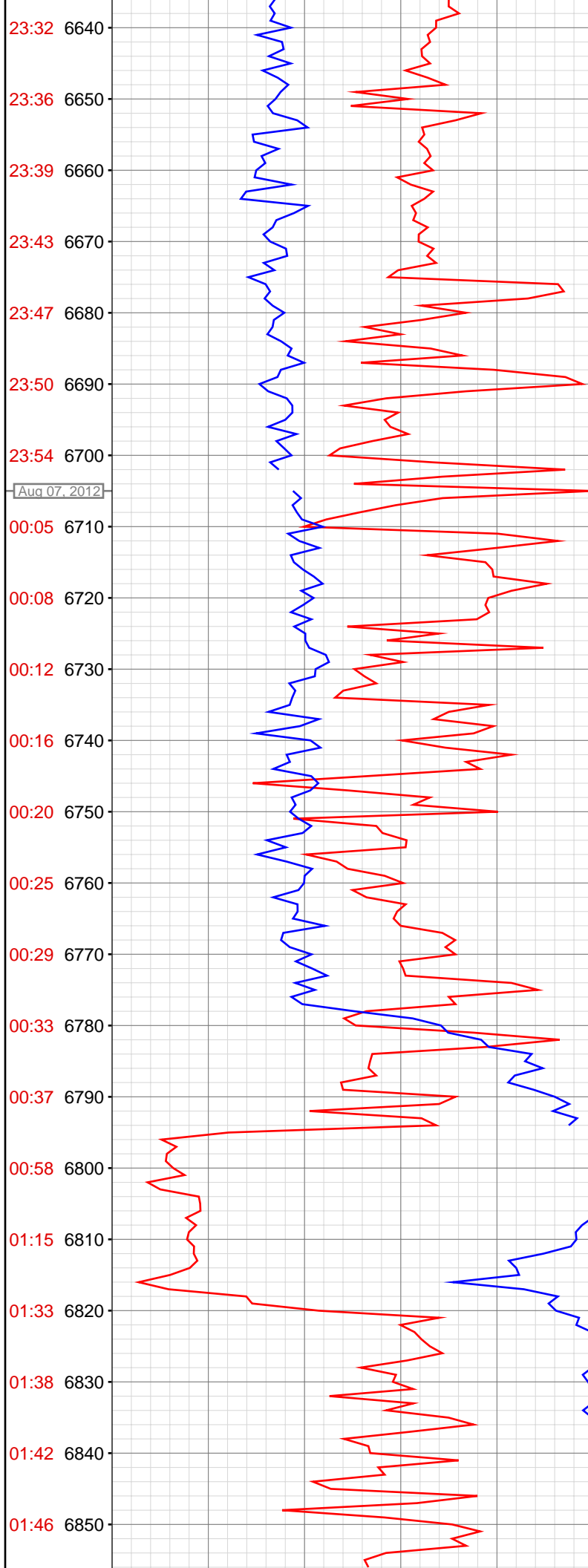








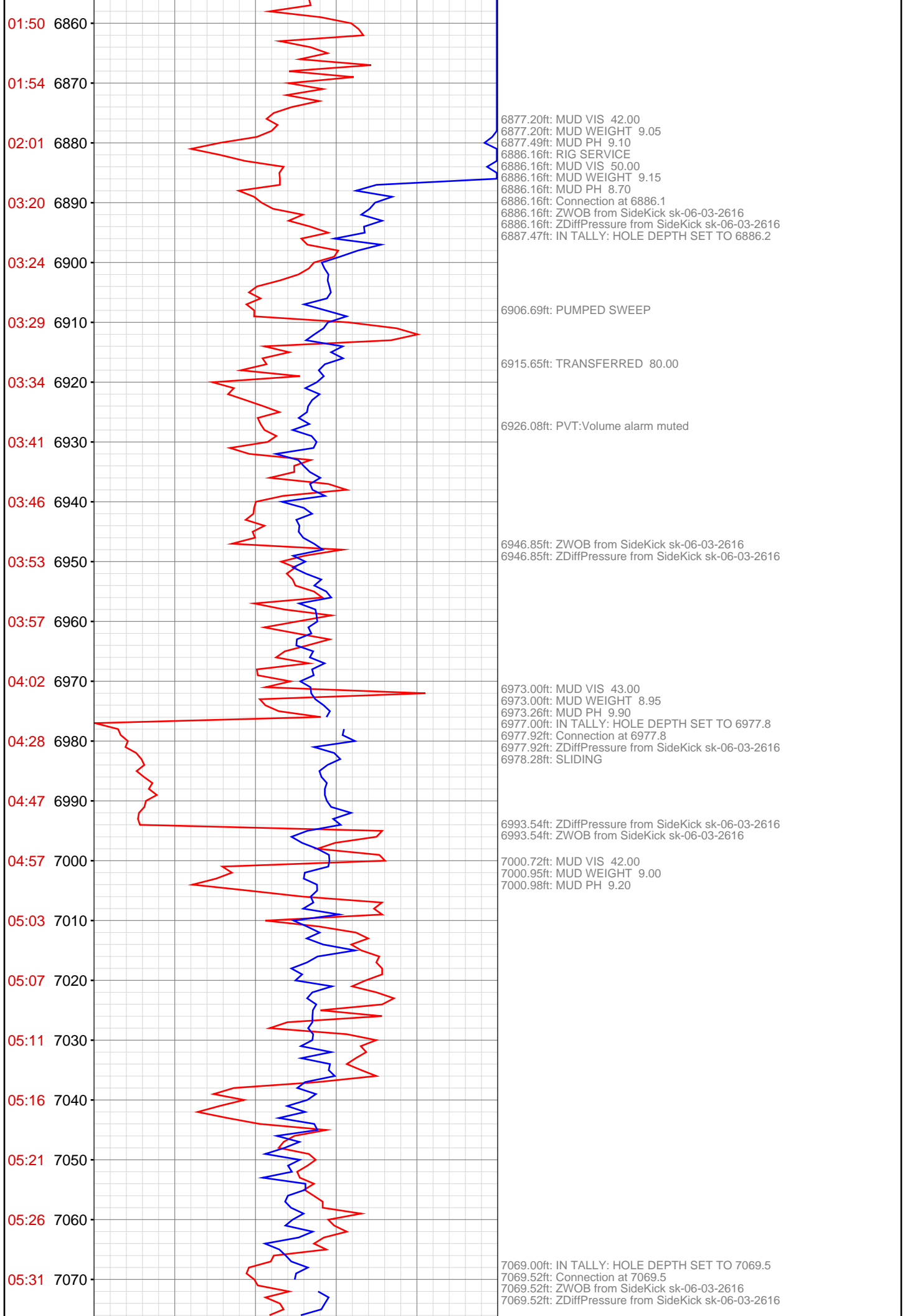




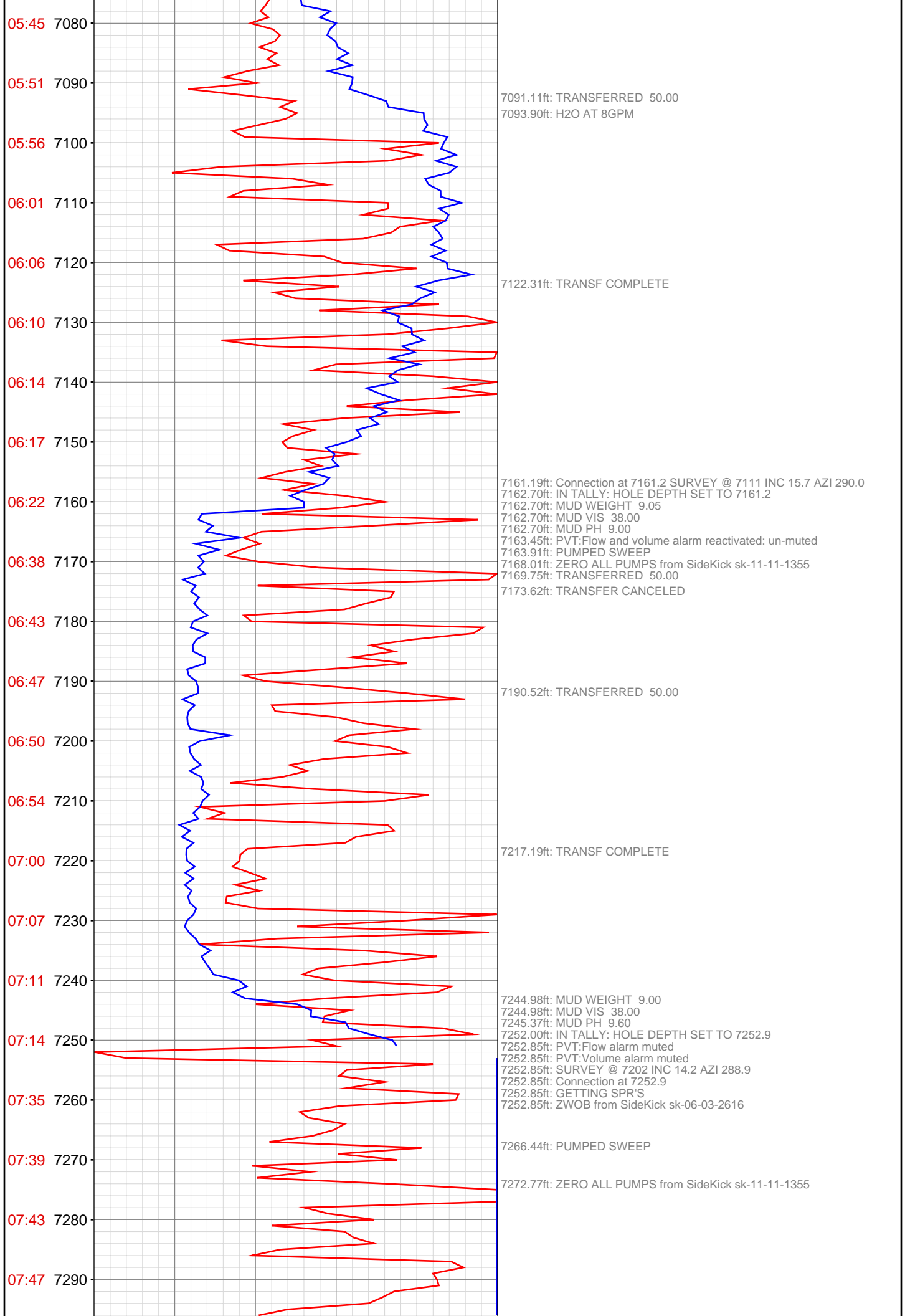
6700.07ft: Connection at 6702.8  
6702.00ft: MUD VIS 40.00  
6702.00ft: MUD WEIGHT 9.00  
6702.00ft: MUD PH 8.50  
6702.40ft: ZDiffPressure from SideKick sk-06-03-2616

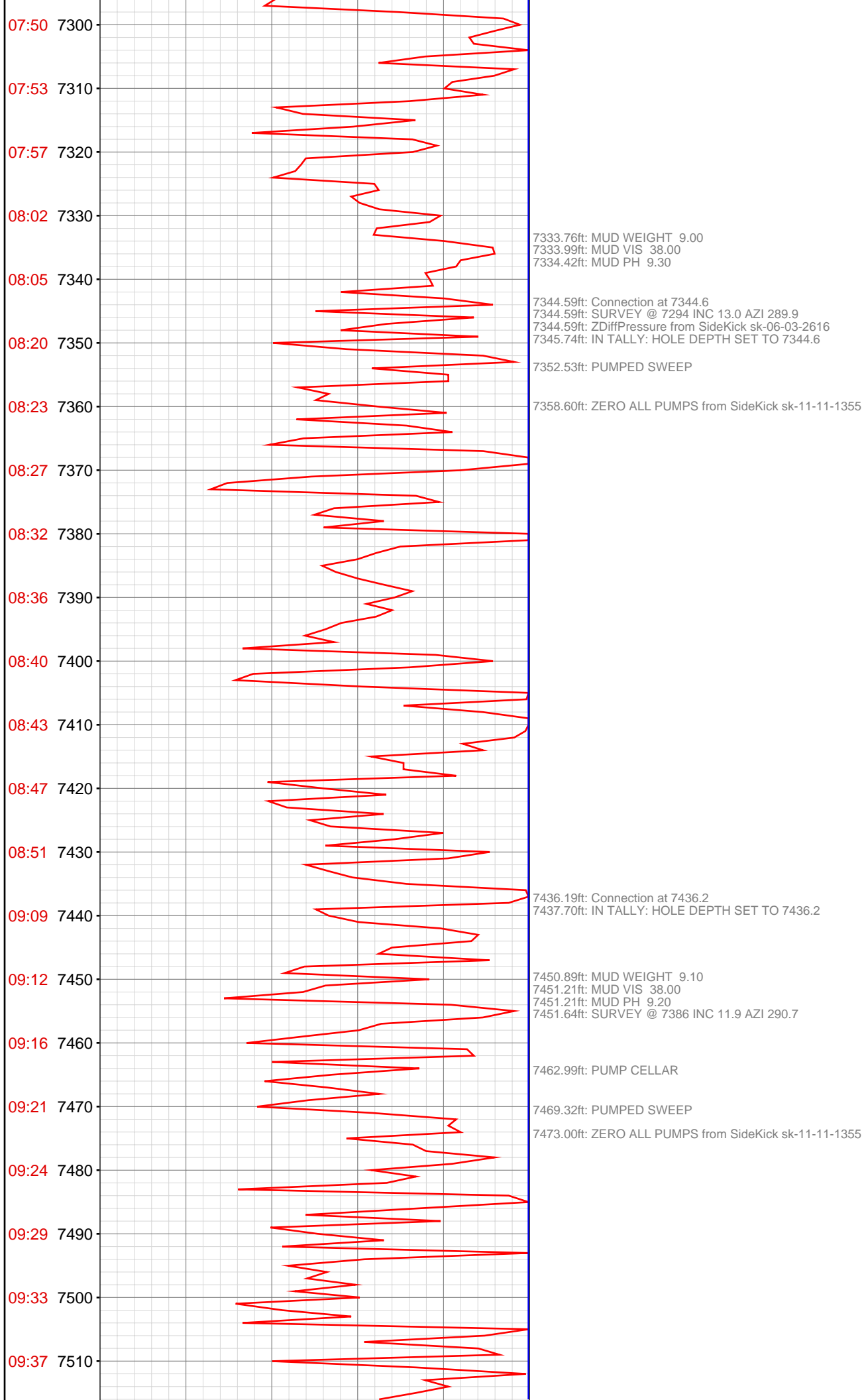
6794.39ft: Connection at 6794.4  
6794.39ft: ZDiffPressure from SideKick sk-06-03-2616  
6794.75ft: PVT:Volume alarm reactivated: un-muted  
6798.13ft: IN TALLY: HOLE DEPTH SET TO 6794.4  
6801.77ft: MUD WEIGHT 9.00  
6801.80ft: MUD VIS 40.00  
6801.80ft: MUD PH 9.70

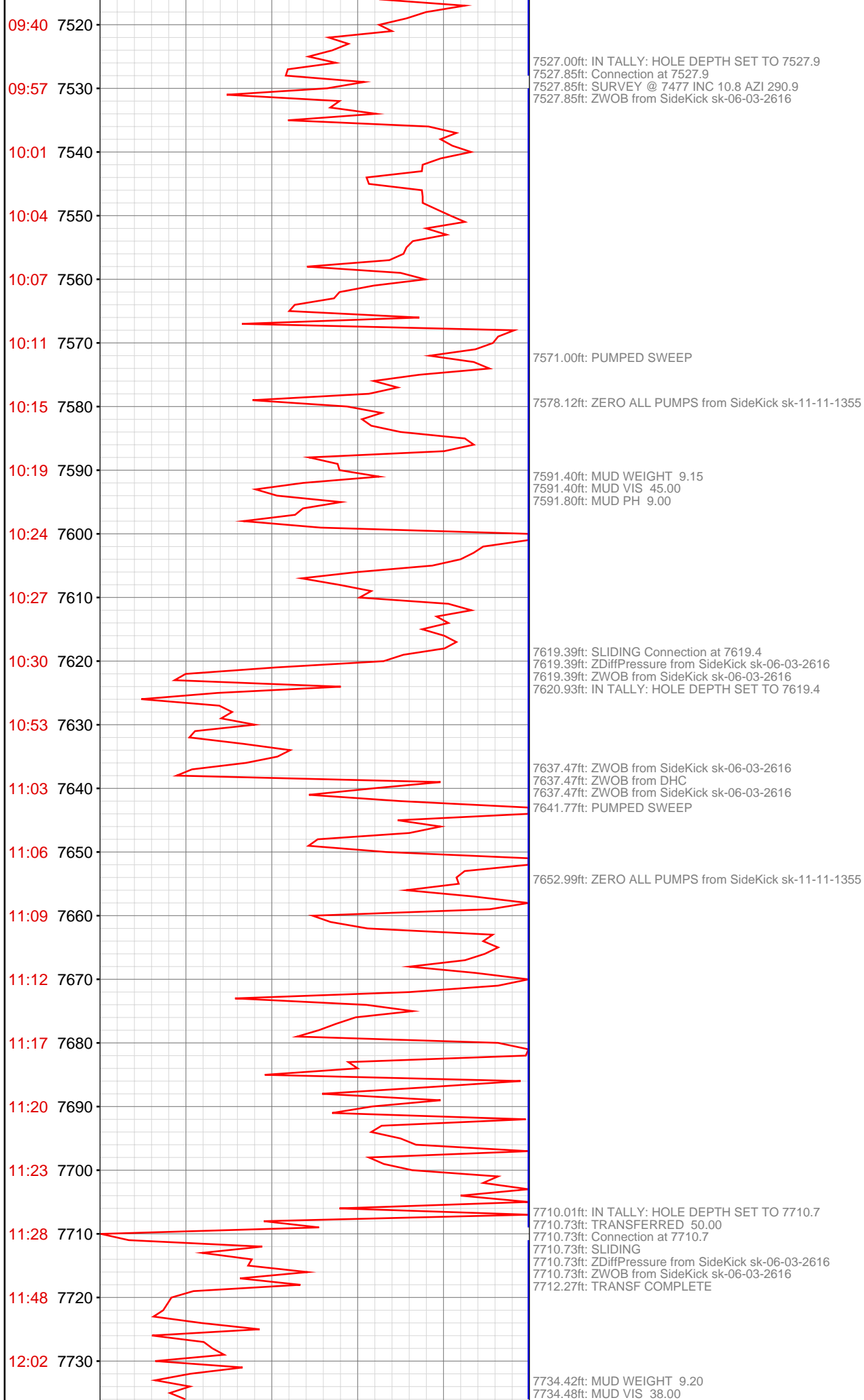
6816.11ft: ZDiffPressure from SideKick sk-06-03-2616  
6820.41ft: PUMPED SWEEP

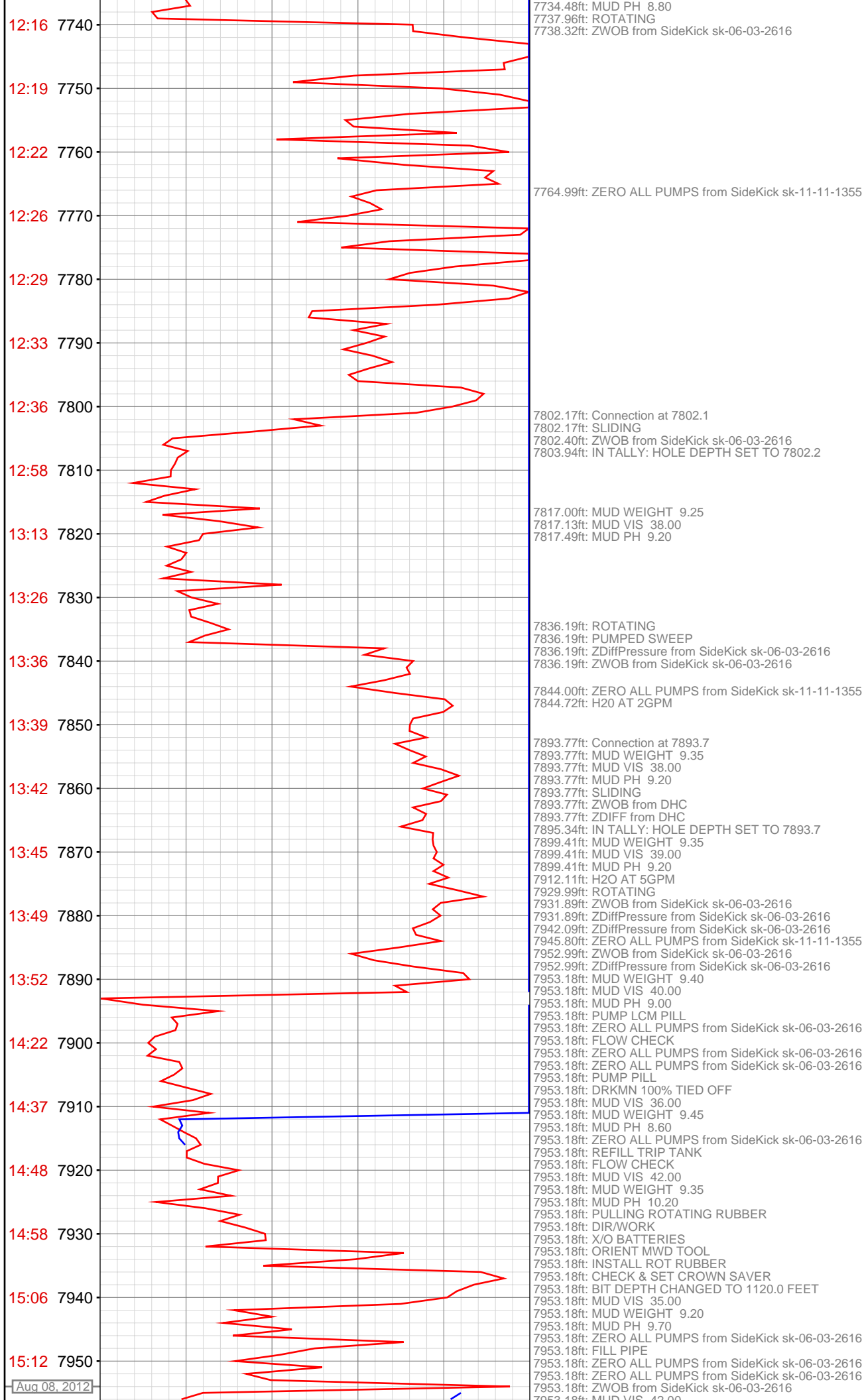


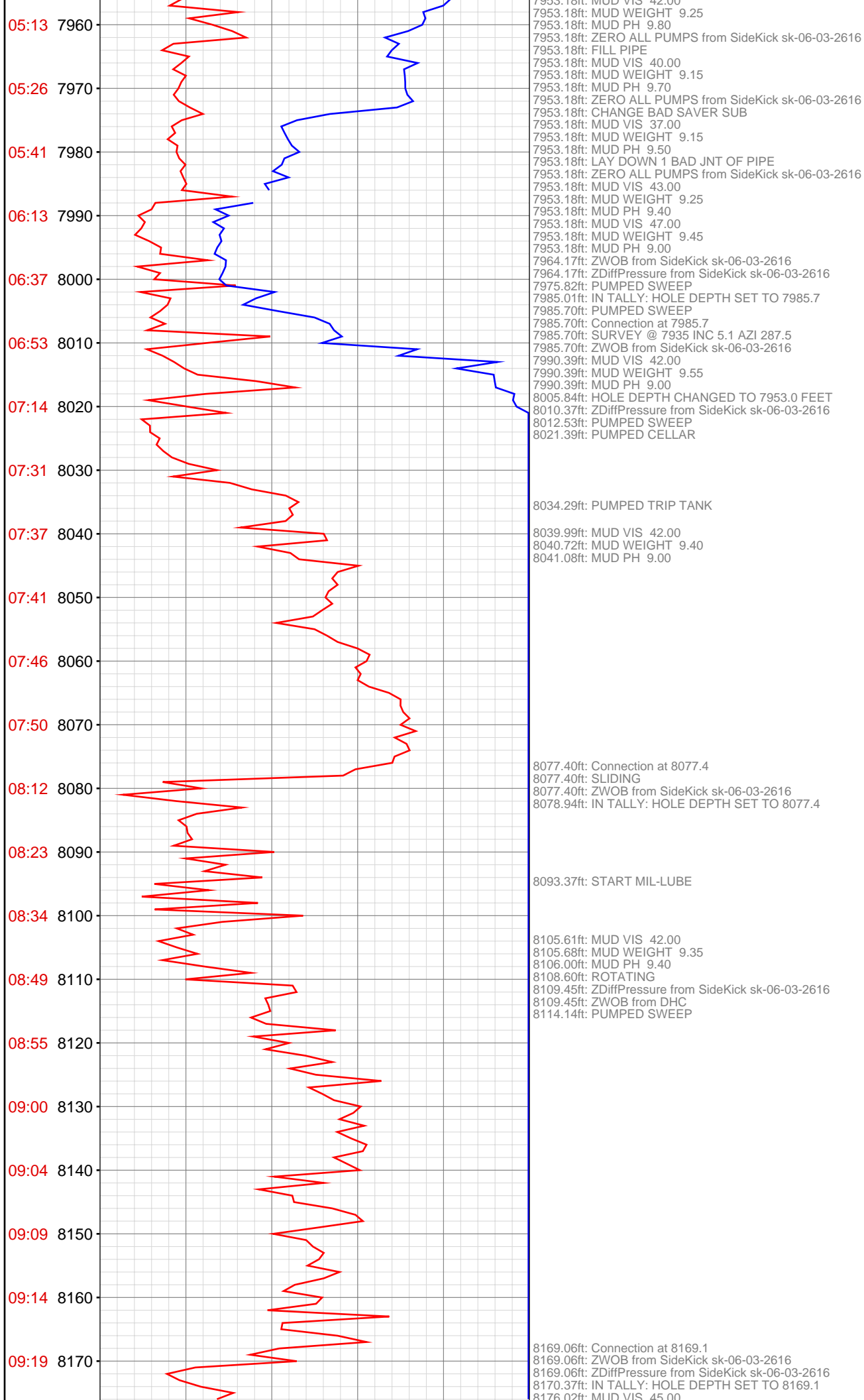












8176.12ft: MUD WEIGHT 9.40  
8176.41ft: MUD PH 9.00

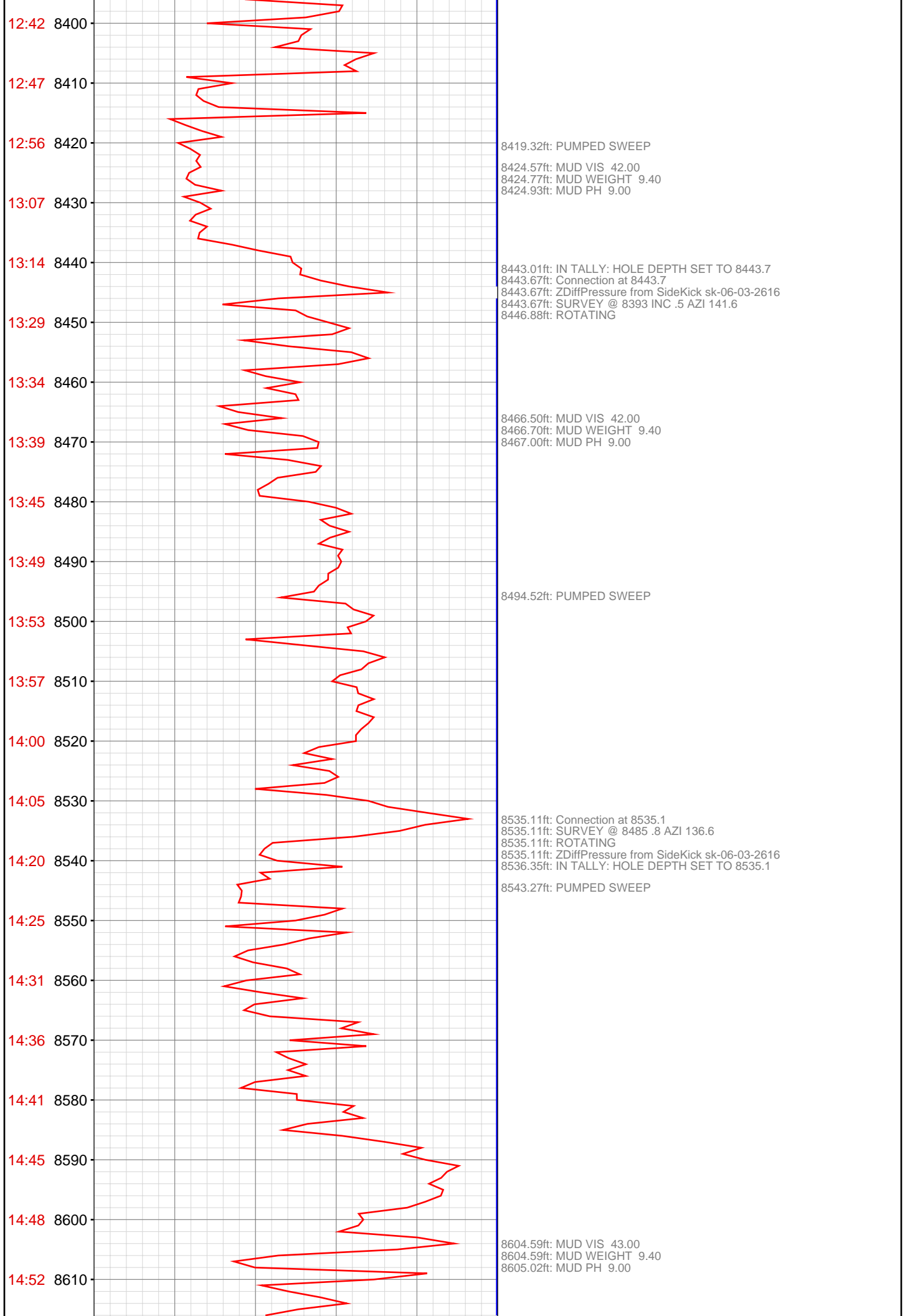
8205.22ft: ROTATING  
8205.22ft: ZDiffPressure from SideKick sk-06-03-2616

8260.01ft: IN TALLY: HOLE DEPTH SET TO 8260.6  
8260.60ft: Connection at 8260.6  
8260.60ft: SURVEY @ 8210 INC .9 AZI 125.0 ROTATING  
8260.60ft: MUD VIS 42.00  
8260.60ft: MUD WEIGHT 9.40  
8260.60ft: ZERO PUMP1 from SideKick sk-06-03-2616  
8260.60ft: MUD PH 9.50  
8260.60ft: ZDiffPressure from SideKick sk-06-03-2616  
8266.21ft: PUMPED SWEEP

8289.24ft: TRANSFERRED 100.00

8294.16ft: STOP TRANSFER

8352.17ft: Connection at 8352.1  
8352.17ft: SURVEY @ 8302 INC .8 AZI 143.0  
8352.17ft: ZDiffPressure from SideKick sk-06-03-2616  
8352.17ft: ROTATING  
8353.77ft: IN TALLY: HOLE DEPTH SET TO 8352.2



14:56 8620  
15:15 8630  
15:29 8640  
15:40 8650  
15:45 8660  
15:52 8670  
16:01 8680  
16:07 8690  
16:13 8700  
16:20 8710  
16:25 8720  
17:02 8730  
17:06 8740  
17:09 8750  
17:13 8760  
17:19 8770  
17:27 8780  
17:35 8790  
17:39 8800  
18:01 8810  
18:07 8820  
18:12 8830

8626.44ft: Connection at 8626.4  
8626.44ft: SLIDING  
8626.44ft: ZDiffPressure from SideKick sk-06-03-2616  
8626.44ft: ZWOB from SideKick sk-06-03-2616  
8628.41ft: IN TALLY: HOLE DEPTH SET TO 8626.4

8649.02ft: ROTATING  
8649.11ft: ZDiffPressure from SideKick sk-06-03-2616

8673.00ft: MUD VIS 42.00  
8673.00ft: MUD WEIGHT 9.40  
8673.33ft: MUD PH 9.00

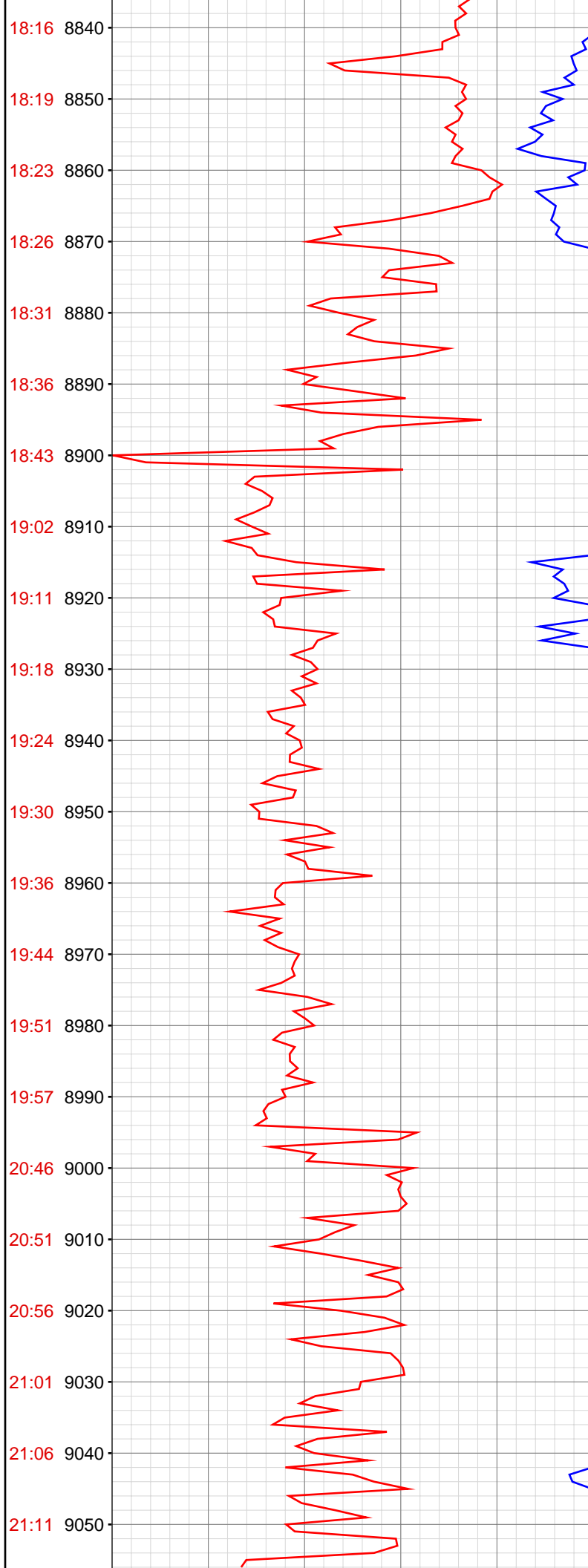
8714.99ft: IN TALLY: HOLE DEPTH SET TO 8717.9  
8717.98ft: RIG SERVICE  
8721.92ft: SPR # 1 PUMP 40/60 STKS 354/680 PSI @ 8719' W/9.4 PPG MW  
8721.92ft: SPR # 2 PUMP 40/60 STKS 376/681 PSI @ 8719' W/9.4 PPG MW  
8721.92ft: SURVEY @ 8667 INC .7 AZI 40.6  
8721.92ft: Connection at 8717.9  
8721.92ft: ROTATING  
8721.92ft: ZDiffPressure from SideKick sk-06-03-2616

8758.60ft: PUMPED SWEEP  
8760.01ft: MUD VIS 44.00  
8761.16ft: MUD WEIGHT 9.40  
8761.16ft: MUD PH 9.10

8768.60ft: TRANSFERRED 100.00

8809.51ft: Connection at 8809.5  
8809.51ft: SURVEY @ 8759 INC .8 AZI 37.1  
8809.51ft: ZWOB from SideKick sk-06-03-2616  
8809.51ft: ZDiffPressure from SideKick sk-06-03-2616  
8815.03ft: IN TALLY: HOLE DEPTH SET TO 8809.5





8854.33ft: MUD VIS 42.00  
8854.99ft: MUD WEIGHT 9.45  
8854.99ft: MUD PH 9.50

8900.00ft: IN TALLY: HOLE DEPTH SET TO 8901.0  
8900.98ft: Connection at 8901.0  
8900.98ft: SURVEY @ 8850 INC-0.6 AZI-26.7  
8900.98ft: ZWOB from SideKick sk-06-03-2616  
8900.98ft: ZDiffPressure from SideKick sk-06-03-2616  
8905.12ft: PUMPED SWEEP

8914.34ft: ZWOB from SideKick sk-06-03-2616  
8914.34ft: ZDiffPressure from SideKick sk-06-03-2616

8944.32ft: MUD VIS 45.00  
8944.55ft: MUD WEIGHT 9.45  
8944.55ft: MUD PH 9.00

8992.00ft: IN TALLY: HOLE DEPTH SET TO 8992.3  
8992.32ft: RIG SERVICE  
8992.32ft: Connection at 8992.3  
8992.32ft: SURVEY @ 8942 INC-0.3 AZ-338.1  
8992.32ft: PVT:Volume alarm reactivated: un-muted  
8992.32ft: ZDiffPressure from SideKick sk-06-03-2616

9022.54ft: MUD VIS 0.06  
9022.54ft: MUD VIS 43.00  
9023.00ft: MUD WEIGHT 9.45  
9023.00ft: MUD PH 9.20

21:17 9060

21:22 9070

21:27 9080

21:47 9090

21:51 9100

21:58 9110

22:02 9120

22:07 9130

22:11 9140

22:15 9150

22:19 9160

22:24 9170

22:52 9180

23:19 9190

23:35 9200

23:40 9210

23:48 9220

23:55 9230

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00:01 9240

00:07 9250

00:12 9260

00:32 9270

9083.73ft: Connection at 9083.7  
9083.73ft: ZDiffPressure from SideKick sk-06-03-2616  
9083.73ft: ZWOB from SideKick sk-06-03-2616  
9085.83ft: IN TALLY: HOLE DEPTH SET TO 9083.7

9114.21ft: MUD VIS 44.00  
9114.63ft: MUD WEIGHT 9.45  
9114.99ft: MUD PH 9.40

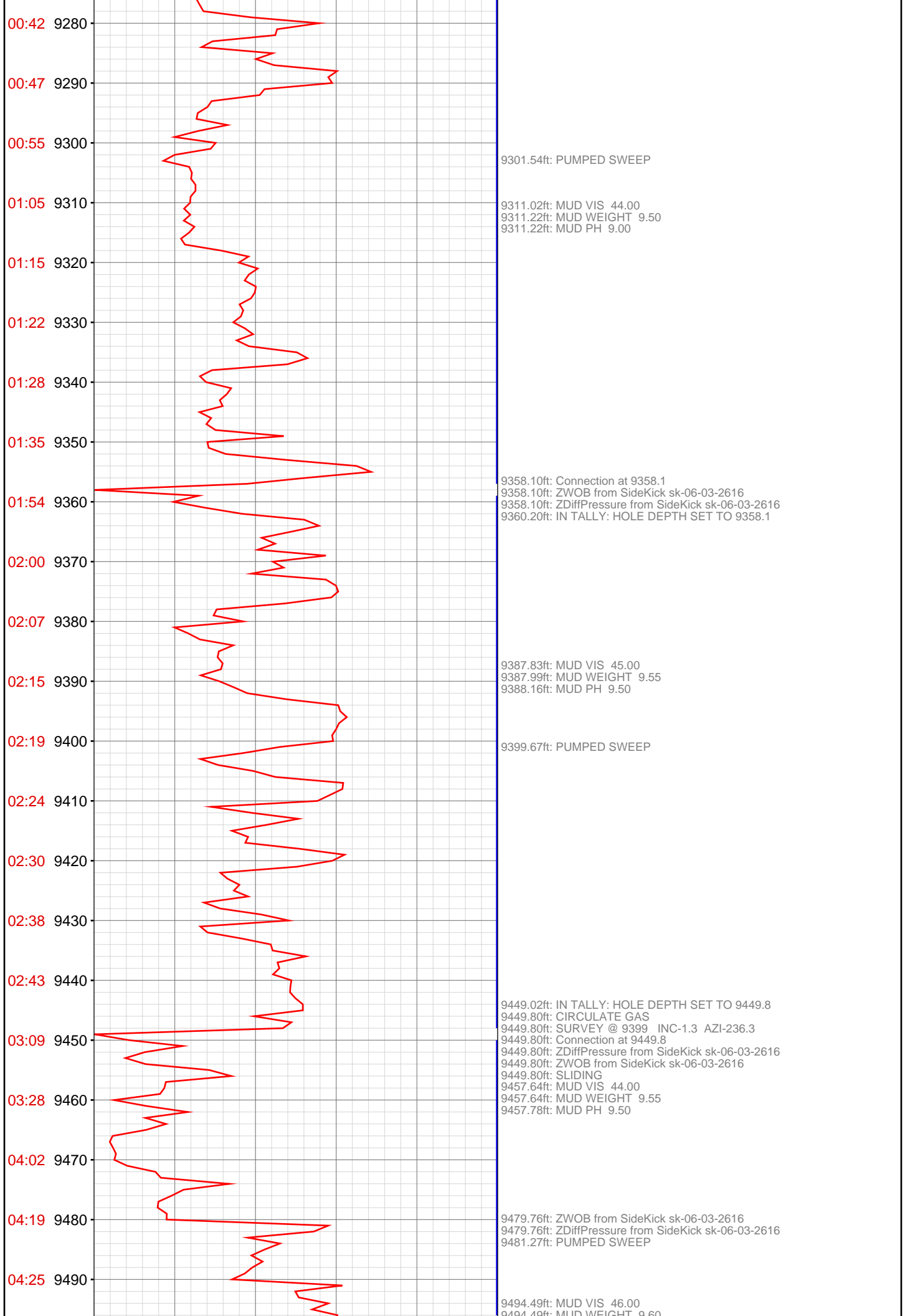
9138.55ft: PUMPED SWEEP

9175.30ft: Connection at 9175.3  
9175.30ft: ZDiffPressure from SideKick sk-06-03-2616  
9175.30ft: SLIDING SURVEY @ 9125 INC-0.8 AZI-278.0  
9176.94ft: IN TALLY: HOLE DEPTH SET TO 9175.3  
9177.46ft: PUMPED SWEEP  
9177.99ft: PUMP CELLAR  
9183.30ft: END OF PUMPING  
9187.63ft: MUD VIS 45.00  
9187.63ft: MUD WEIGHT 9.45  
9187.76ft: MUD PH 9.00  
9193.57ft: ZDiffPressure from SideKick sk-06-03-2616  
9193.57ft: ZWOB from SideKick sk-06-03-2616

9201.15ft: PUMPED SWEEP

9247.83ft: MUD VIS 45.00  
9248.00ft: MUD WEIGHT 9.50  
9248.13ft: MUD PH 9.30

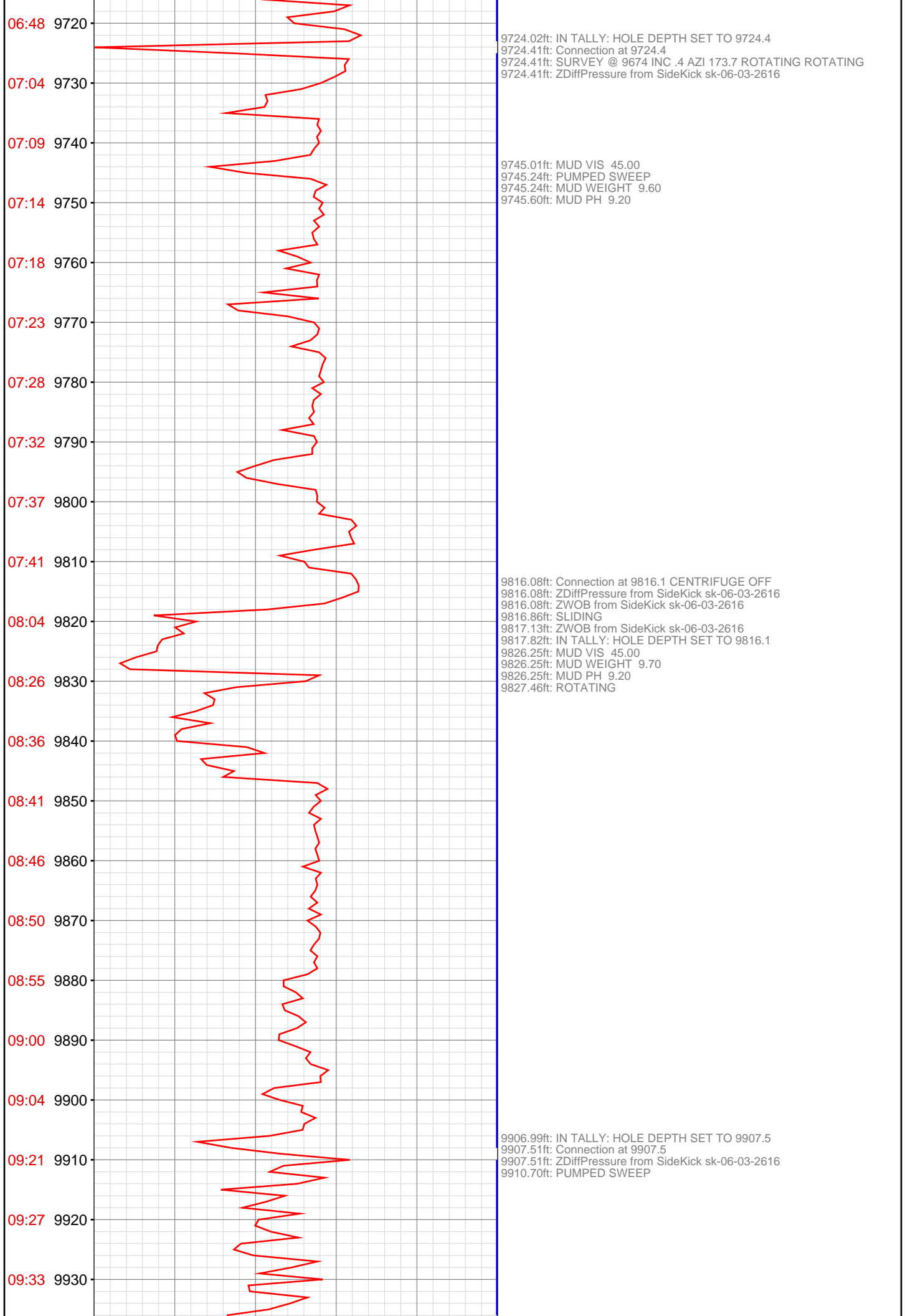
9266.01ft: IN TALLY: HOLE DEPTH SET TO 9266.7  
9266.67ft: Connection at 9266.6  
9266.67ft: ZWOB from SideKick sk-06-03-2616  
9266.67ft: ZDiffPressure from SideKick sk-06-03-2616

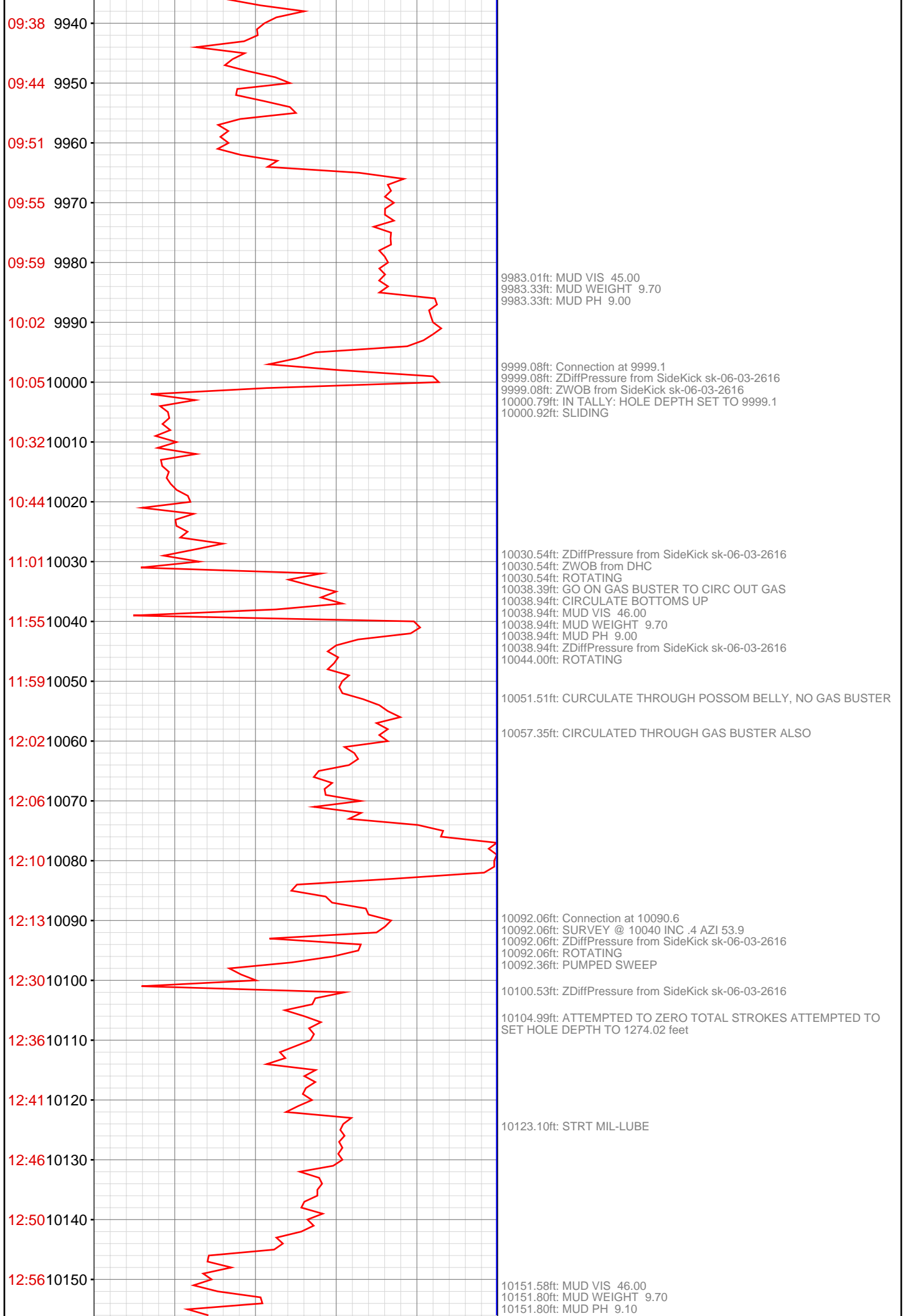


9494.45ft: MUD WEIGHT 9.00  
9494.85ft: MUD PH 9.30

9541.24ft: Connection at 9541.3  
9541.24ft: ZWOB from SideKick sk-06-03-2616  
9541.24ft: ZDiffPressure from SideKick sk-06-03-2616  
9542.72ft: IN TALLY: HOLE DEPTH SET TO 9541.3

9631.99ft: IN TALLY: HOLE DEPTH SET TO 9632.9  
9632.87ft: MUD VIS 45.00  
9632.87ft: MUD WEIGHT 9.60  
9632.87ft: MUD PH 9.20  
9632.87ft: Connection at 9632.9  
9632.87ft: ROTATING  
9632.87ft: SURVEY @ 9582 INC .8 AZI 155.8





13:05 10160  
13:12 10170  
13:17 10180  
13:42 10190  
13:47 10200  
13:51 10210  
13:56 10220  
14:03 10230  
14:09 10240  
14:14 10250  
14:22 10260  
14:29 10270  
15:04 10280  
15:10 10290  
15:17 10300  
15:21 10310  
15:26 10320  
15:32 10330  
15:37 10340  
15:41 10350  
15:45 10360  
16:02 10370

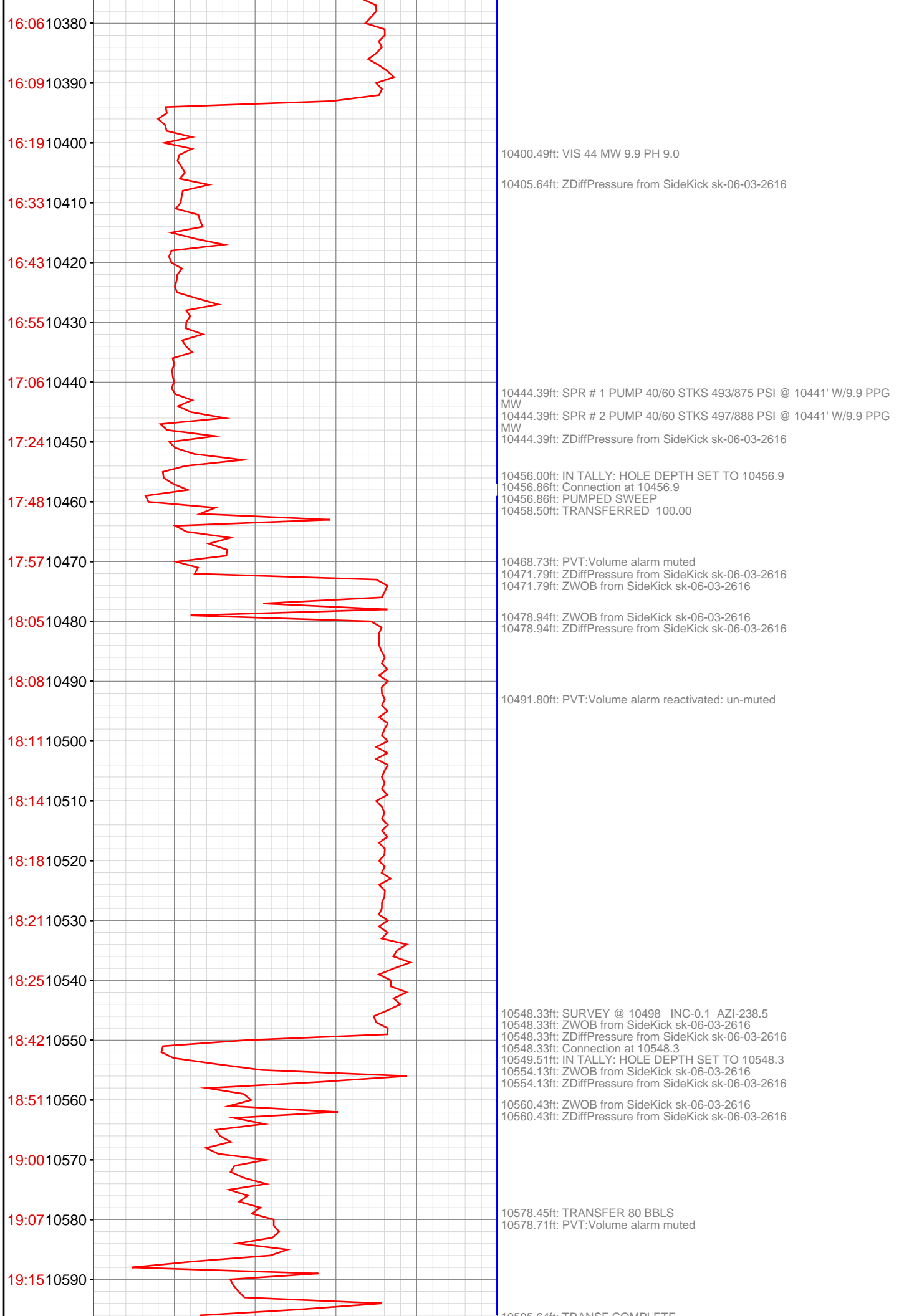


10181.99ft: IN TALLY: HOLE DEPTH SET TO 10182.3  
10182.25ft: WAIT ON GAS  
10182.25ft: Connection at 10182.3  
10182.25ft: ZDiffPressure from SideKick sk-06-03-2616  
10182.25ft: SURVEY @ 10132 INC .3 AZI 70.3 ROTATING PUMPED SWEEP

10273.00ft: IN TALLY: HOLE DEPTH SET TO 10273.8  
10273.75ft: RIG SERVICE  
10273.75ft: SURVEY @ 10223 INC .5 AZI 36.9  
10273.75ft: Connection at 10273.8  
10273.75ft: ZDiffPressure from SideKick sk-06-03-2616  
10277.03ft: ROTATING

10316.01ft: PUMPED SWEEP

10364.99ft: IN TALLY: HOLE DEPTH SET TO 10365.3  
10365.26ft: Connection at 10365.3  
10365.26ft: SURVEY @ 10315 INC .1 AZI 41.0  
10365.26ft: ROTATING  
10365.26ft: ZDiffPressure from SideKick sk-06-03-2616  
10365.26ft: PUMPED SWEEP

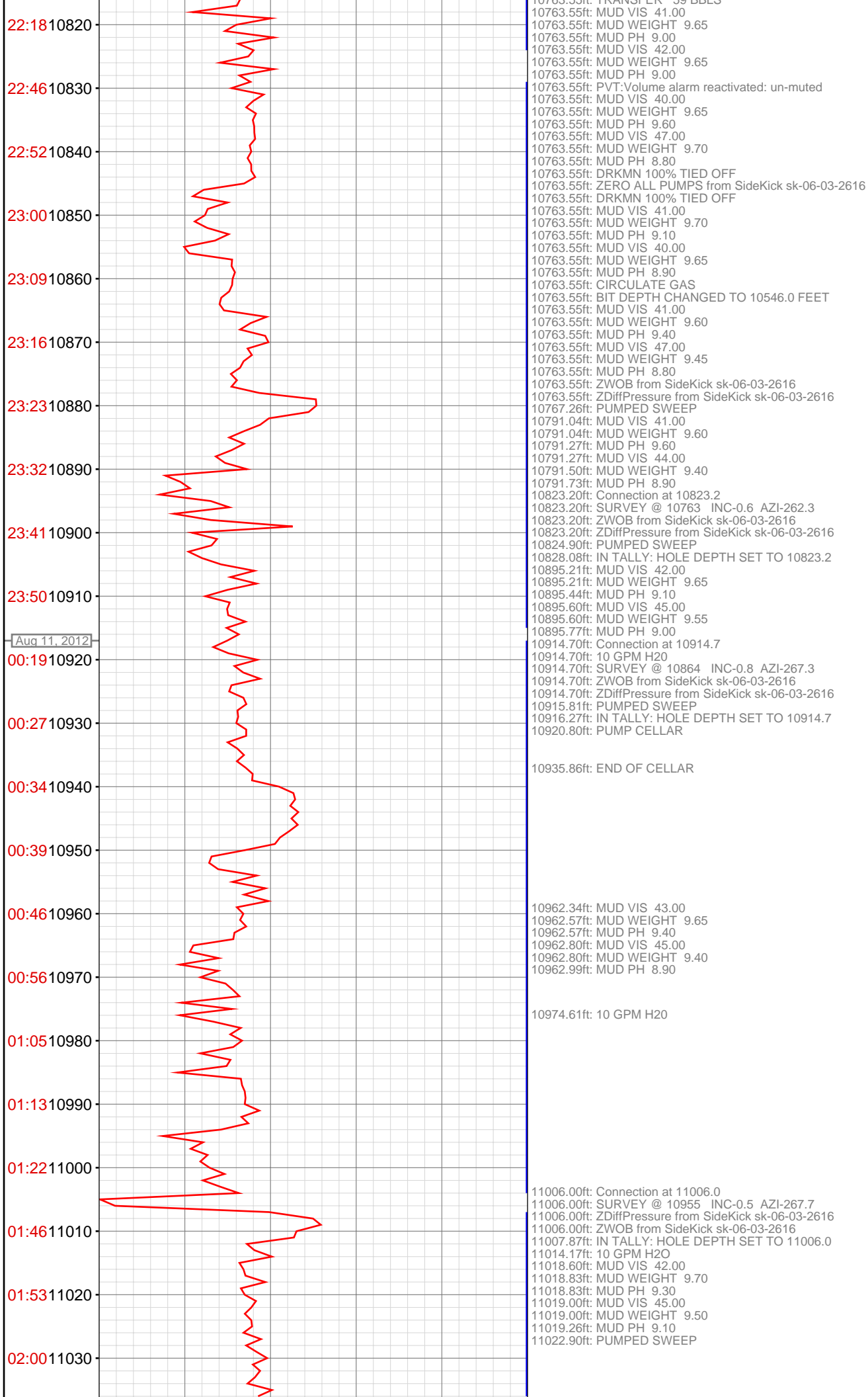


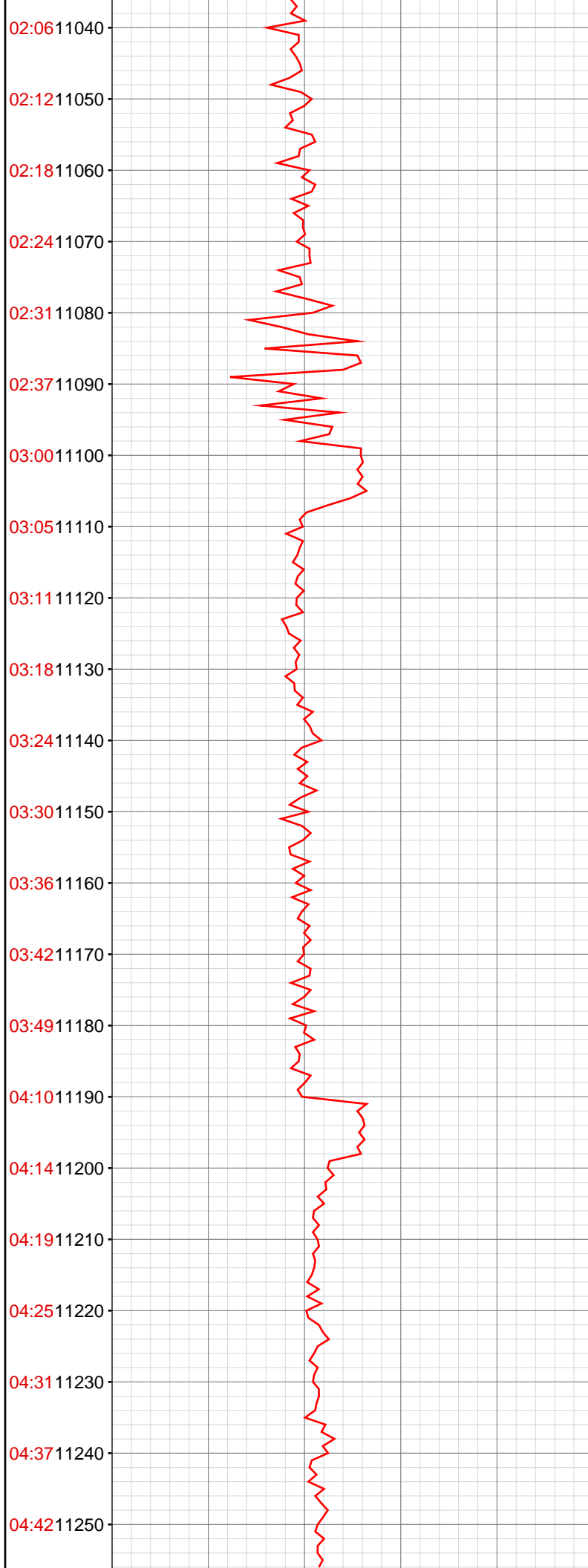


10596.64ft: TRANSF COMPLETE  
10596.36ft: PVT:Volume alarm reactivated: un-muted

10639.01ft: IN TALLY: HOLE DEPTH SET TO 10639.9  
10639.93ft: SURVEY @ 10589 INC-0.4 AZI-268.1  
10639.93ft: Connection at 10639.9  
10639.93ft: ZWOB from SideKick sk-06-03-2616  
10639.93ft: ZDiffPressure from SideKick sk-06-03-2616  
10643.08ft: MUD VIS 43.00  
10643.31ft: MUD WEIGHT 9.95  
10643.31ft: MUD PH 9.00  
10647.08ft: PUMPED SWEEP  
10671.95ft: BYPASS BUSTER  
10731.56ft: Connection at 10731.5  
10731.56ft: SURVEY @ 10681 INC-0.4 AZI-274.4  
10731.56ft: ZWOB from SideKick sk-06-03-2616  
10731.56ft: ZDiffPressure from SideKick sk-06-03-2616  
10733.10ft: IN TALLY: HOLE DEPTH SET TO 10731.6  
10735.30ft: MUD VIS 43.00  
10735.30ft: MUD WEIGHT 10.00  
10735.60ft: MUD PH 9.10  
10749.08ft: PUMPED SWEEP  
10757.97ft: PUMP CELLAR  
10763.55ft: ZWOB from SideKick sk-06-03-2616  
10763.55ft: ZDiffPressure from SideKick sk-06-03-2616  
10763.55ft: MIXING LCM PILL  
10763.55ft: PVT:Volume alarm muted  
10763.55ft: ZERO ALL PUMPS from SideKick sk-06-03-2616  
10763.55ft: ZERO ALL PUMPS from SideKick sk-06-03-2616  
10763.55ft: PUMPING 60 BBL LCM PILL  
10763.55ft: ZERO ALL PUMPS from SideKick sk-06-03-2616  
10763.55ft: DRKMN 100% TIED OFF  
10763.55ft: PUMP 300 STRK  
10763.55ft: BUILD VOLUME  
10763.55ft: ZERO ALL PUMPS from SideKick sk-06-03-2616  
10763.55ft: FLOW CHECK  
10763.55ft: PVT:Flow alarm reactivated: un-muted  
10763.55ft: BUILD VOLUME  
10763.55ft: ATTEMPT TO GET RETURNS  
10763.55ft: DRKMN 100% TIED OFF  
10763.55ft: ZERO ALL PUMPS from SideKick sk-06-03-2616  
10763.55ft: PUMP CELLAR  
10763.55ft: BUILDING VOLUME  
10763.55ft: END OF CELLAR  
10763.55ft: ZERO ALL PUMPS from SideKick sk-06-03-2616  
10763.55ft: ZERO ALL PUMPS from SideKick sk-06-03-2616  
10763.55ft: ZERO ALL PUMPS from SideKick sk-06-03-2616  
10763.55ft: ZERO ALL PUMPS from SideKick sk-06-03-2616  
10763.55ft: ZERO ALL PUMPS from SideKick sk-06-03-2616  
10763.55ft: ZERO ALL PUMPS from SideKick sk-06-03-2616  
10763.55ft: ZERO ALL PUMPS from SideKick sk-06-03-2616  
10763.55ft: ZERO ALL PUMPS from SideKick sk-06-03-2616  
10763.55ft: ZERO ALL PUMPS from SideKick sk-06-03-2616  
10763.55ft: MIXING A 35% LCM PILL  
10763.55ft: ZERO ALL PUMPS from SideKick sk-06-03-2616  
10763.55ft: PUMPING LCM PILL  
10763.55ft: PVT:Flow alarm muted  
10763.55ft: ZERO ALL PUMPS from SideKick sk-06-03-2616  
10763.55ft: BUILD VOLUME  
10763.55ft: ZWOB from DHC  
10763.55ft: FUNCTIONED ANNULAR  
10763.55ft: MUD VIS 45.00  
10763.55ft: MUD WEIGHT 9.55  
10763.55ft: MUD PH 9.50  
10763.55ft: PVT:Flow alarm reactivated: un-muted  
10763.55ft: PVT:Flow alarm muted  
10763.55ft: TRANSFERRED 100.00  
10763.55ft: BIT DEPTH CHANGED TO 4048.0 FEET  
10763.55ft: MUD VIS 44.00  
10763.55ft: MUD WEIGHT 9.75  
10763.55ft: MUD PH 9.40  
10763.55ft: ZERO ALL PUMPS from SideKick sk-06-03-2616  
10763.55ft: PVT:Flow alarm reactivated: un-muted  
10763.55ft: PVT:Flow alarm muted  
10763.55ft: MUD VIS 9.55  
10763.55ft: MUD VIS 42.00  
10763.55ft: MUD WEIGHT 9.55  
10763.55ft: MUD PH 9.00  
10763.55ft: MUD VIS 9.55  
10763.55ft: MUD WEIGHT 0.00  
10763.55ft: MUD VIS 43.00  
10763.55ft: MUD WEIGHT 9.55  
10763.55ft: MUD PH 9.20  
10763.55ft: MUD VIS 42.00  
10763.55ft: MUD WEIGHT 9.60  
10763.55ft: MUD PH 9.00  
10763.55ft: BIT DEPTH CHANGED TO 7619.0 FEET  
10763.55ft: MUD VIS 40.00  
10763.55ft: MUD WEIGHT 9.65  
10763.55ft: MUD PH 9.00  
10763.55ft: MUD VIS 41.00  
10763.55ft: MUD WEIGHT 9.65  
10763.55ft: MUD PH 9.40  
10763.55ft: MUD VIS 42.00  
10763.55ft: MUD WEIGHT 9.60  
10763.55ft: MUD PH 9.20  
10763.55ft: MUD VIS 44.00  
10763.55ft: MUD WEIGHT 9.70  
10763.55ft: MUD PH 9.30  
10763.55ft: TRANSFERRED 20.00  
10763.55ft: TRANSFER 60 BBL S

10763.55ft: TRANSFERRED 20.00  
10763.55ft: TRANSFER 60 BBL S





11097.01ft: IN TALLY: HOLE DEPTH SET TO 11097.6  
11097.61ft: Connection at 11097.6  
11097.61ft: SURVEY @ 11047 INC-0.3 AZI-344.9  
11097.61ft: MUD VIS 43.00  
11097.61ft: MUD WEIGHT 9.70  
11097.61ft: MUD PH 9.60  
11097.61ft: MUD VIS 45.00  
11097.61ft: MUD WEIGHT 9.50  
11097.61ft: MUD PH 9.10  
11097.61ft: ZWOB from SideKick sk-06-03-2616  
11097.61ft: ZDiffPressure from SideKick sk-06-03-2616  
11097.61ft: 10 GPM H2O  
  
11112.47ft: PUMPED SWEEP

11189.30ft: MUD VIS 42.00  
11189.30ft: Connection at 11189.3  
11189.30ft: MUD WEIGHT 9.60  
11189.30ft: MUD PH 9.70  
11189.30ft: MUD VIS 45.00  
11189.30ft: MUD WEIGHT 9.60  
11189.30ft: MUD PH 8.90  
11189.30ft: SURVEY @ 11139 INC-0.4 AZI-11.7  
11189.30ft: ZWOB from SideKick sk-06-03-2616  
11189.30ft: ZDiffPressure from SideKick sk-06-03-2616  
11190.65ft: IN TALLY: HOLE DEPTH SET TO 11189.3  
11191.01ft: 10 GPM H2O  
11193.11ft: PUMPED SWEEP

04:47 11260

04:53 11270

04:59 11280

05:21 11290

05:26 11300

05:32 11310

05:38 11320

05:45 11330

05:51 11340

05:57 11350

06:03 11360

06:09 11370

06:33 11380

06:42 11390

06:47 11400

06:52 11410

06:57 11420

07:07 11430

07:12 11440

07:17 11450

23:27 11460

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23:27 11470

11279.99ft: IN TALLY: HOLE DEPTH SET TO 11280.9  
11280.94ft: 10 GPM  
11280.94ft: MUD VIS 44.00  
11280.94ft: MUD WEIGHT 9.65  
11280.94ft: MUD PH 9.30  
11280.94ft: MUD VIS 46.00  
11280.94ft: MUD WEIGHT 9.50  
11280.94ft: MUD PH 9.00  
11280.94ft: Connection at 11280.9  
11280.94ft: ZWOB from SideKick sk-06-03-2616  
11280.94ft: ZDiffPressure from SideKick sk-06-03-2616  
11292.26ft: PUMPED SWEEP

11323.43ft: PUMPED SWEEP

11372.01ft: IN TALLY: HOLE DEPTH SET TO 11372.4  
11372.41ft: IN HOLE VIS 44, MW 9.7, PH 9.5  
11372.41ft: OUT HOLE VIS 45, MW 9.55, PH 9.0  
11372.41ft: MAKE UP WATER 10 GAL POR MIN  
11372.41ft: Connection at 11372.4  
11372.41ft: ZDiffPressure from SideKick sk-06-03-2616  
11374.15ft: SURVEY @ 11322 INC 1.1 AZM 232.4  
11432.12ft: PUMPED SWEEP  
11453.22ft: PUMPED SWEEP  
11453.22ft: IN TALLY: HOLE DEPTH SET TO 11464.0  
11464.01ft: SURVEY @ 11414 INC 1.1 AZM 276.8  
11464.01ft: MUD IN VIS 43, MW 9.7 PH 9.2  
11464.01ft: MUD OUT VIS 42, MW 9.65, PH 9.0  
11464.01ft: 0 GAL WATER  
11464.01ft: TRANSFER 34 BBLS FROM ACTIVE TO TRIP TANK  
11464.01ft: SPR # 1 PUMP 40/60 STKS 377/730 PSI @ 11457' W/9.7 PPG MW  
11464.01ft: SPR # 2 PUMP 40/60 STKS 395/761 PSI @ 11457' W/9.7 PPG MW  
11464.01ft: MUD IN VIS 43, MW 9.7 PH 9.00 MUD OUT VIS 44 MW 9.7 PH 9.00 0 GAL OG WATER  
11464.01ft: FLOW CHECK  
11464.01ft: PVT:Volume alarm muted  
11464.01ft: PUMPED SWEEP  
11464.01ft: TRANSFERRED 80.00  
11464.01ft: ZERO ALL PUMPS from SideKick sk-06-03-2616  
11464.01ft: IN MW 9.7 VIS 42 OUT MW 9.7 VIS 43  
11464.01ft: PUMP SLUG & FLOW CHECK  
11464.01ft: PVT:Volume alarm reactivated: un-muted  
11464.01ft: VIS 42, MW 9.75, 9.0  
11464.01ft: PVT:Volume alarm muted  
11464.01ft: MUD VIS 42.00  
11464.01ft: MUD WEIGHT 9.70  
11464.01ft: MUD PH 9.00  
11464.01ft: FLOW CHECK  
11464.01ft: MUD VIS 42.00  
11464.01ft: MUD WEIGHT 9.75  
11464.01ft: MUD PH 9.10  
11464.01ft: MUD VIS 42.00  
11464.01ft: MUD WEIGHT 9.75  
11464.01ft: MUD PH 9.00  
11464.01ft: PULL WEAR BUSHING  
11464.01ft: PUMPING OUT CELLAR  
11464.01ft: MUD VIS 42.00  
11464.01ft: MUD WEIGHT 9.65  
11464.01ft: MUD PH 9.30  
11464.01ft: MUD VIS 42.00  
11464.01ft: MUD WEIGHT 9.65  
11464.01ft: MUD PH 9.30  
11464.01ft: HOOKLOAD WAS RECALIBRATED  
11464.01ft: HOOKLOAD WAS RECALIBRATED  
11464.01ft: HOOKLOAD WAS RECALIBRATED  
11464.01ft: BIT DEPTH CHANGED TO 2156.0 FEET  
11464.01ft: MUD VIS 42.00  
11464.01ft: MUD WEIGHT 9.65  
11464.01ft: MUD PH 9.20  
11464.01ft: INSTALL ROT RUBBER FILL PIPE & CIRC B/U  
11464.01ft: ZERO ALL PUMPS from SideKick sk-06-03-2616  
11464.01ft: MUD VIS 42.00  
11464.01ft: MUD PH 9.30  
11464.01ft: MUD WEIGHT 0.65  
11464.01ft: MUD WEIGHT 9.65  
11464.01ft: CIRC BTMS UP 3143 STKS  
11464.01ft: BIT DEPTH CHANGED TO 5726.0 FEET  
11464.01ft: MUD VIS 43.00  
11464.01ft: MUD WEIGHT 9.60  
11464.01ft: ZERO ALL PUMPS from SideKick sk-06-03-2616

23:27	11480																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																	
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