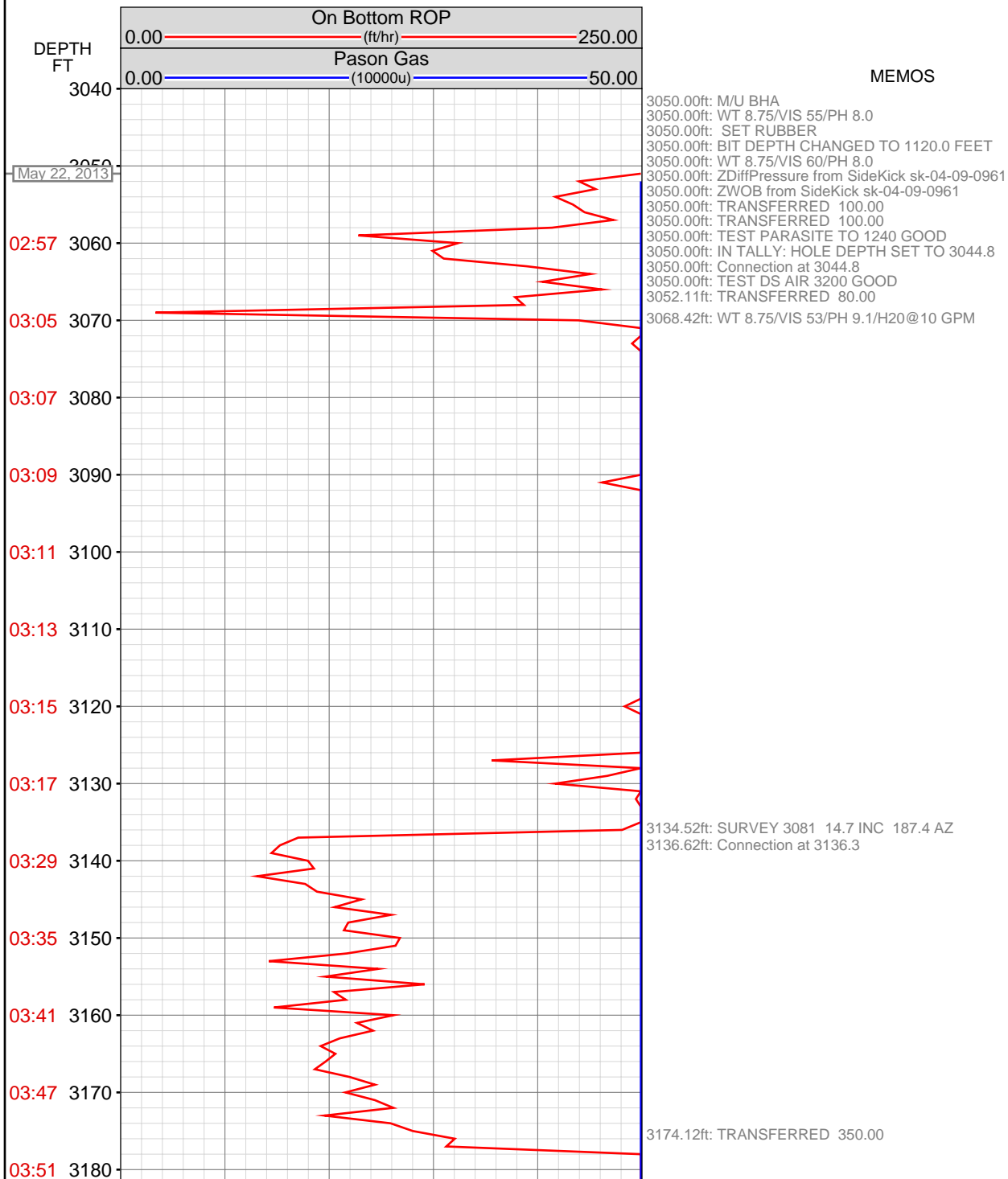
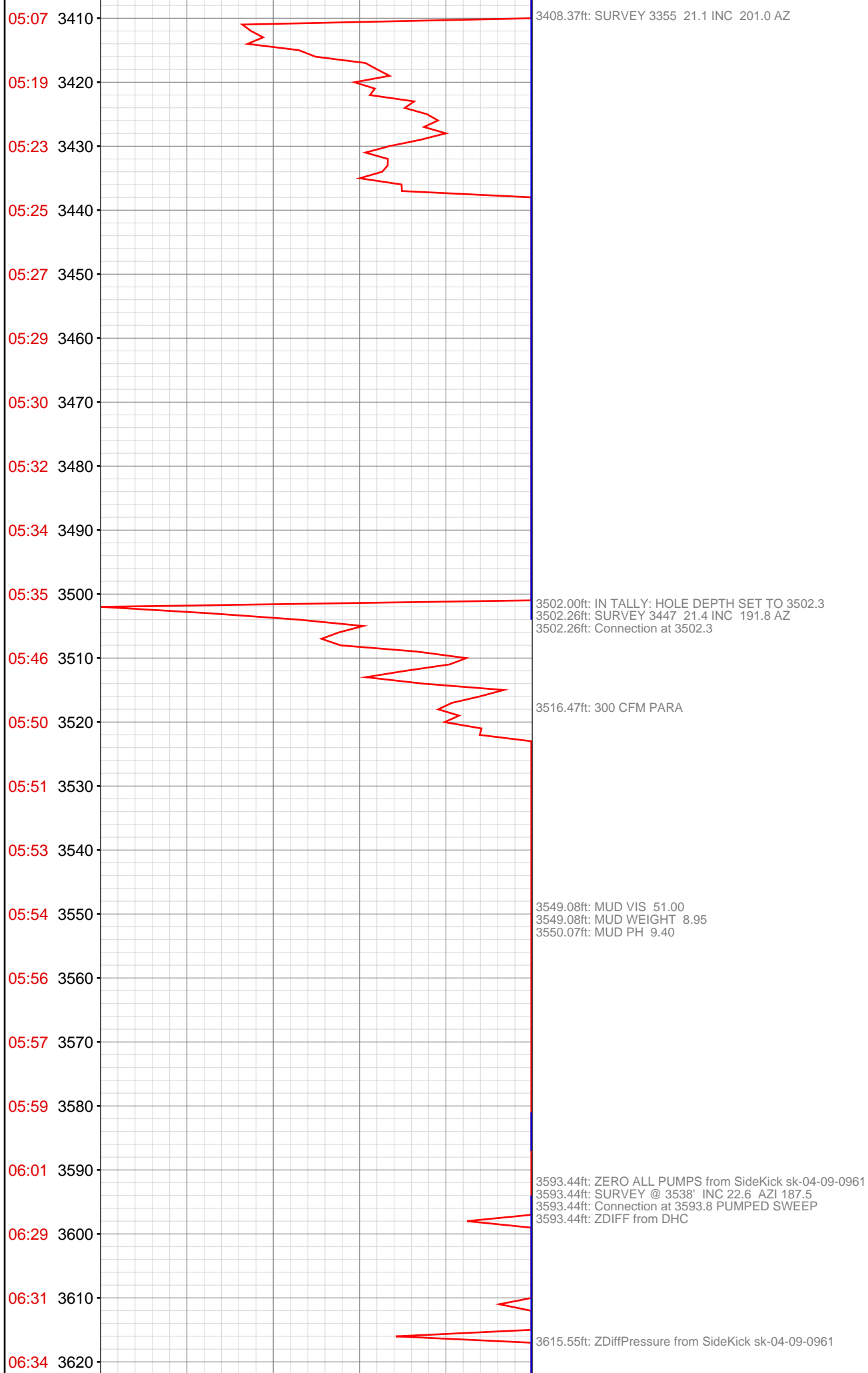


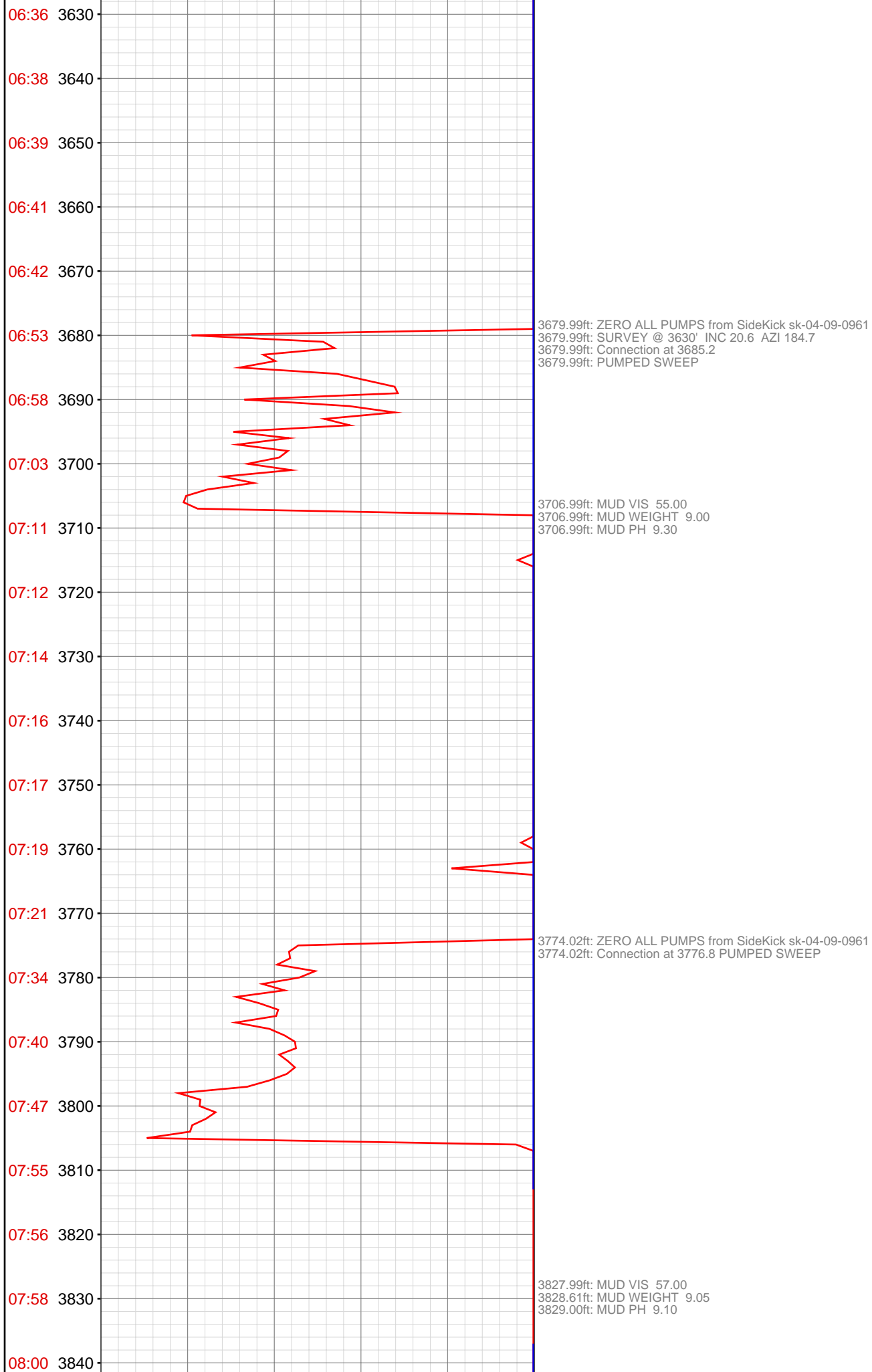
OPERATOR: EnCana Oil & Gas (USA), Inc.
WELL: SG 8512A-36 D36-496
FIELD:
LOCATION:
COUNTRY: USA
RIG: Pat-UTI 326

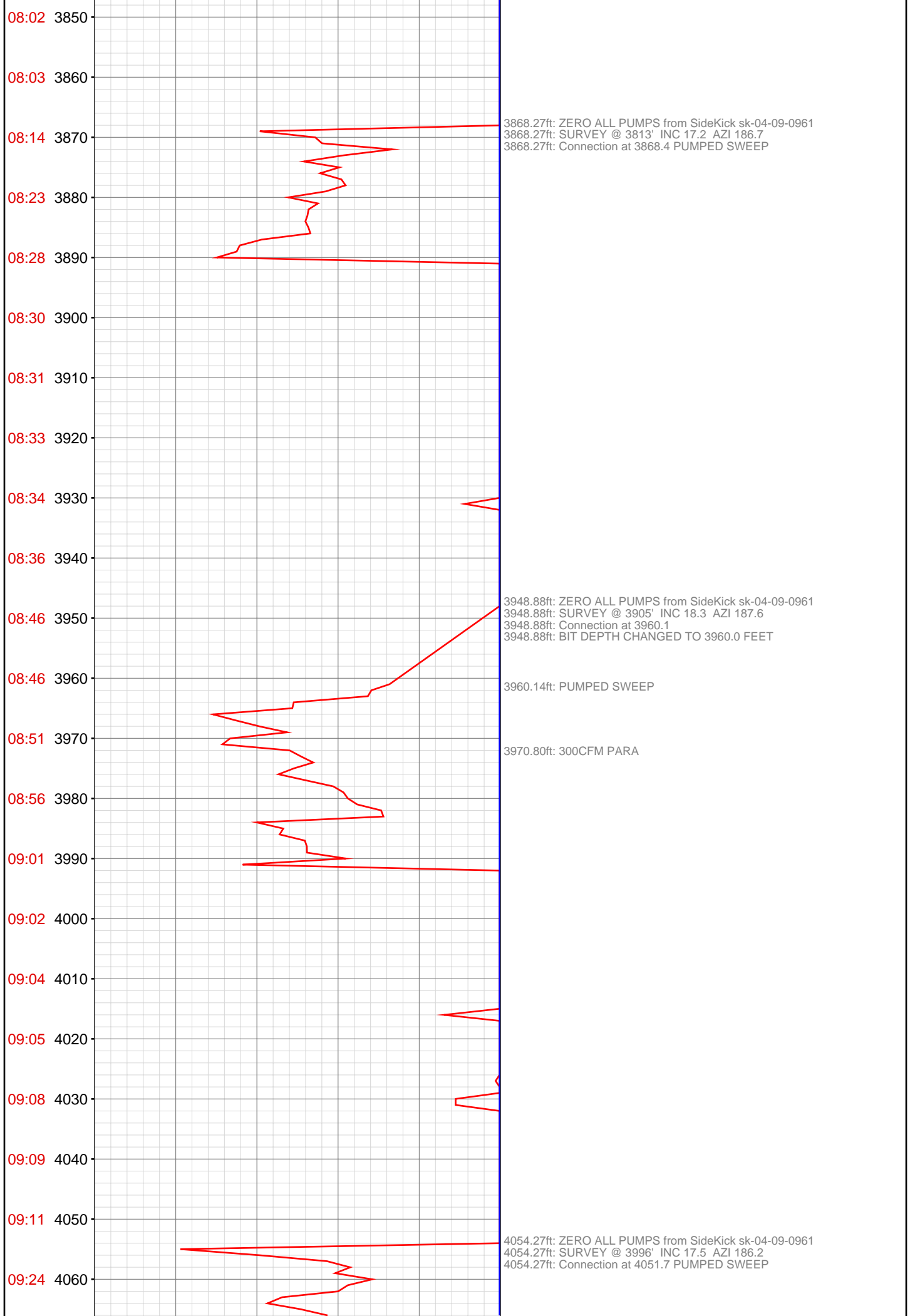
CONTRACTOR: Patterson-UTI Drilling Company
UNIQUE WELL ID: 05-045-2093600-00
SPUD DATE: May 22, 2013 03:00
RELEASE DATE: May 28, 2013 06:00

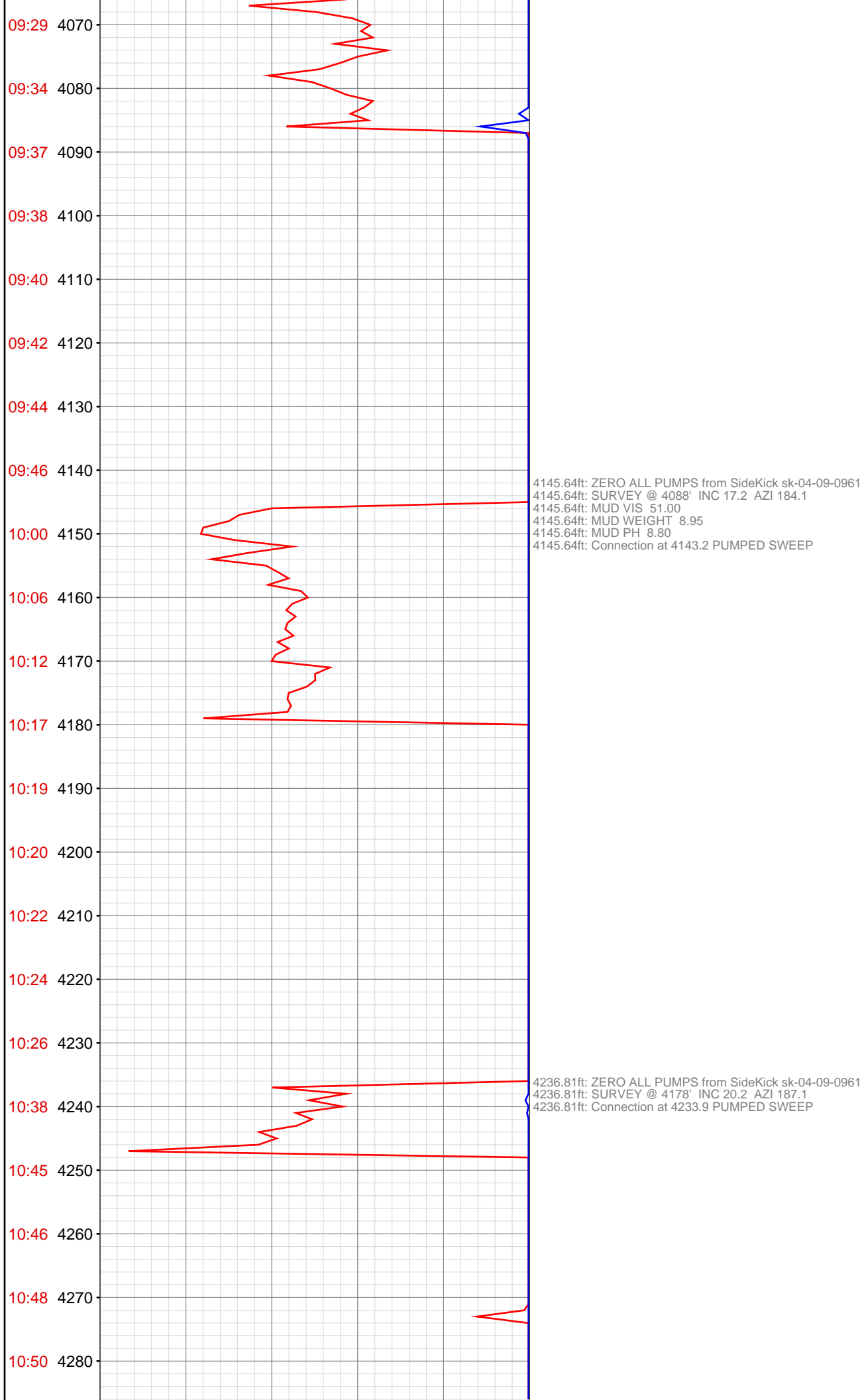










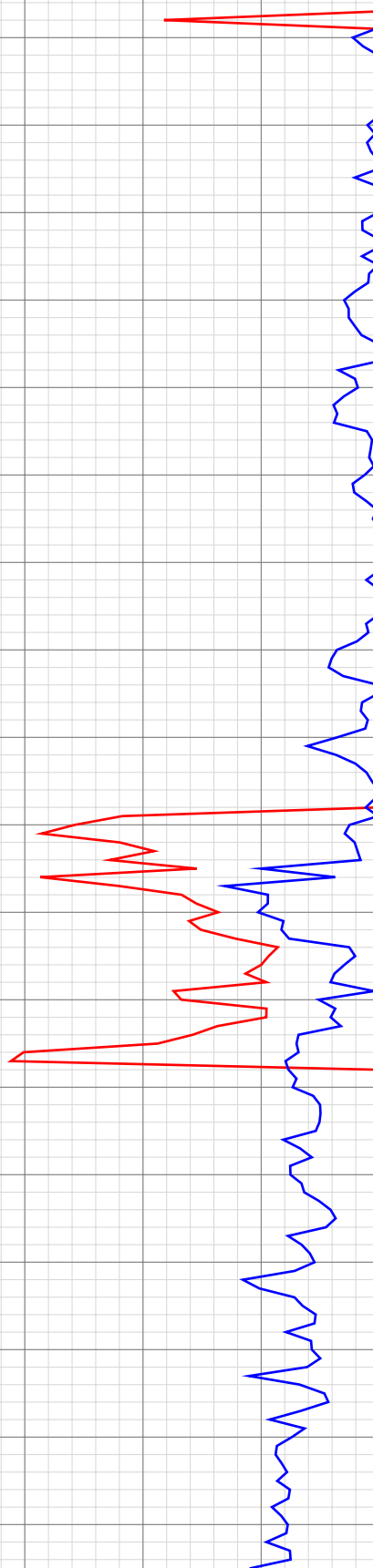


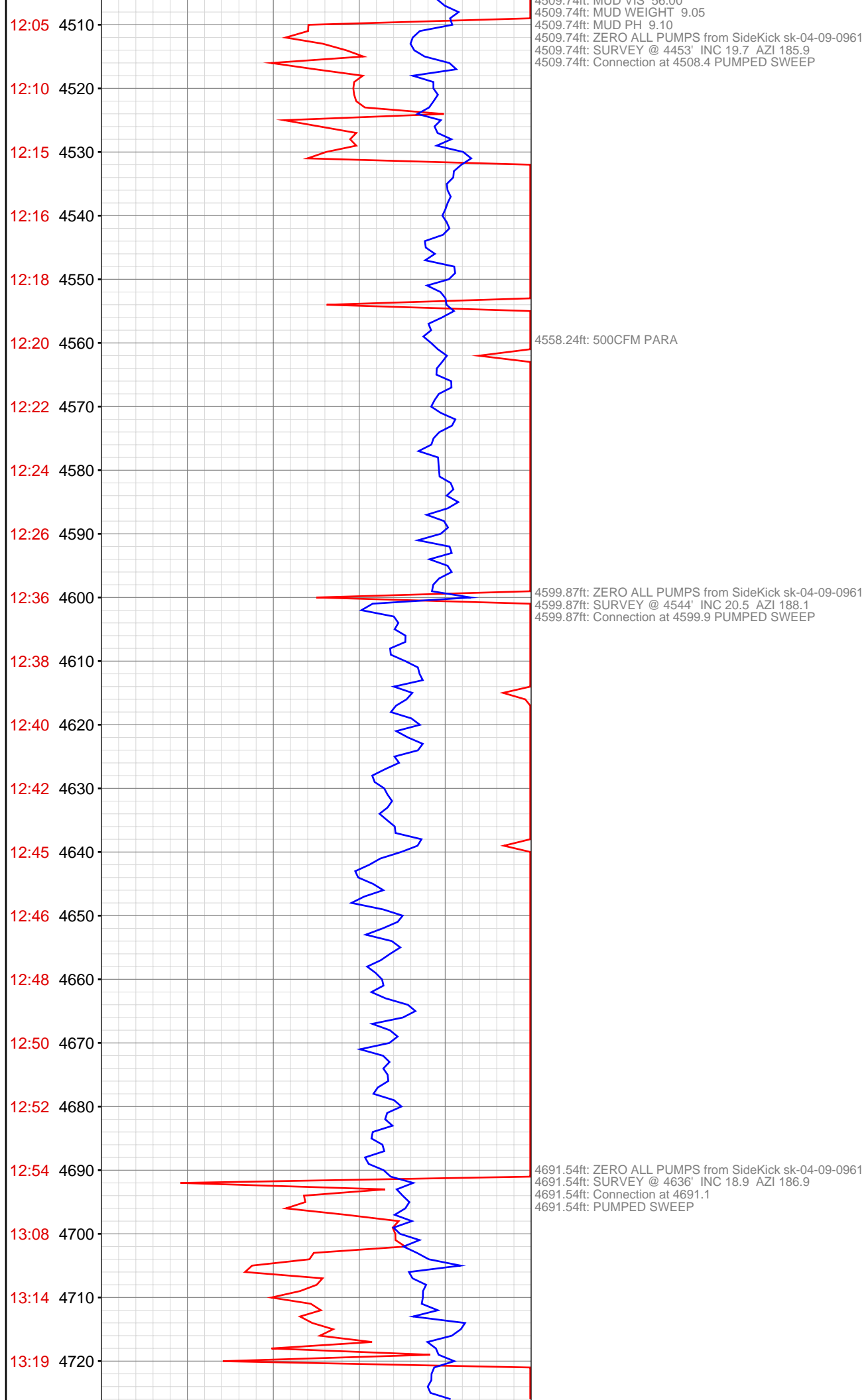
10:52 4290
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11:10 4340
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11:13 4360
11:15 4370
11:17 4380
11:19 4390
11:21 4400
11:22 4410
11:34 4420
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11:54 4500

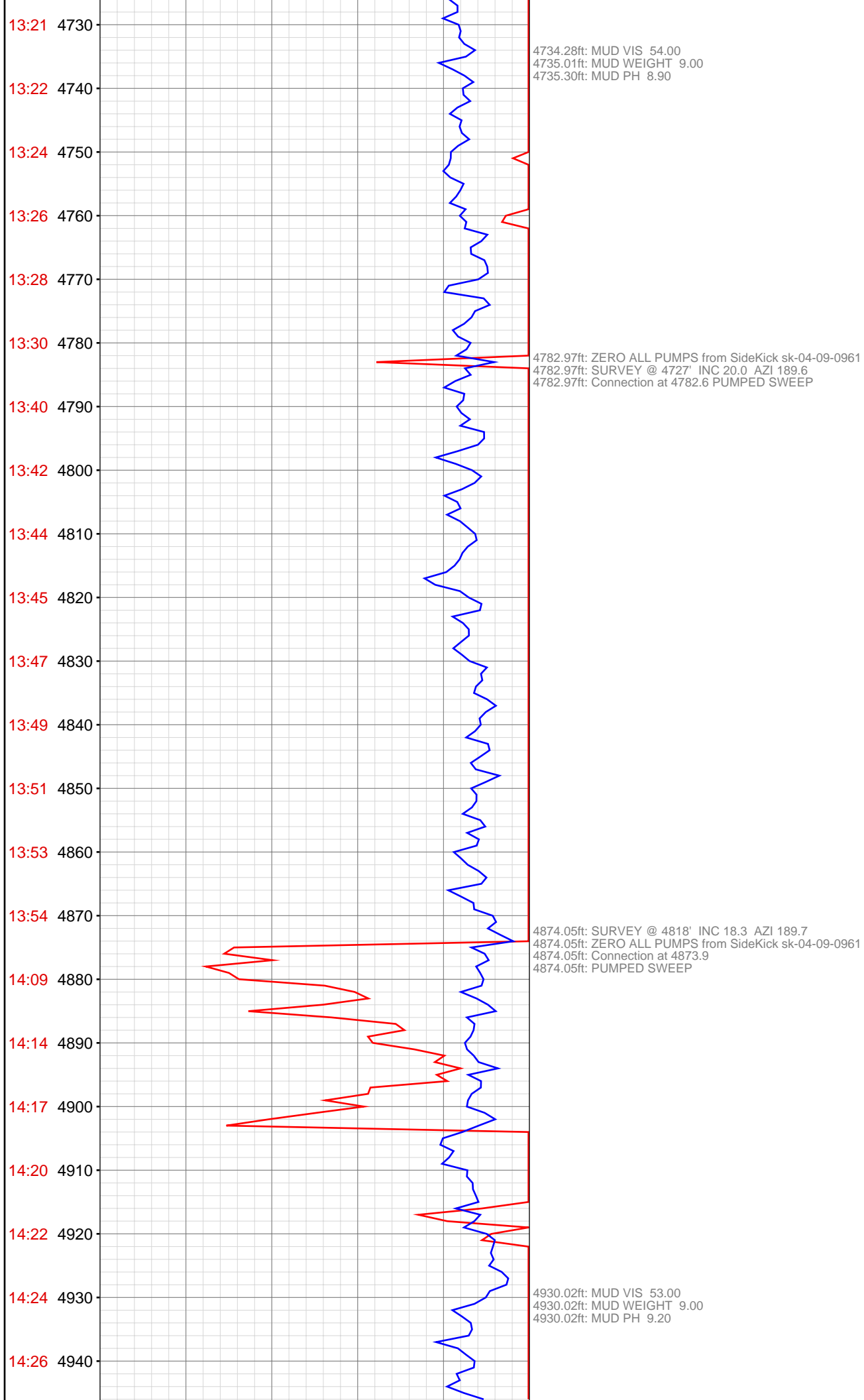
4327.99ft: MUD VIS 51.00
4327.99ft: MUD WEIGHT 8.95
4327.99ft: MUD PH 8.70
4327.99ft: ZERO ALL PUMPS from SideKick sk-04-09-0961
4327.99ft: Connection at 4325.1 PUMPED SWEEP SURVEY @ 4270' INC 20.2 AZI 186.1
4327.99ft: ZDiffPressure from SideKick sk-04-09-0961

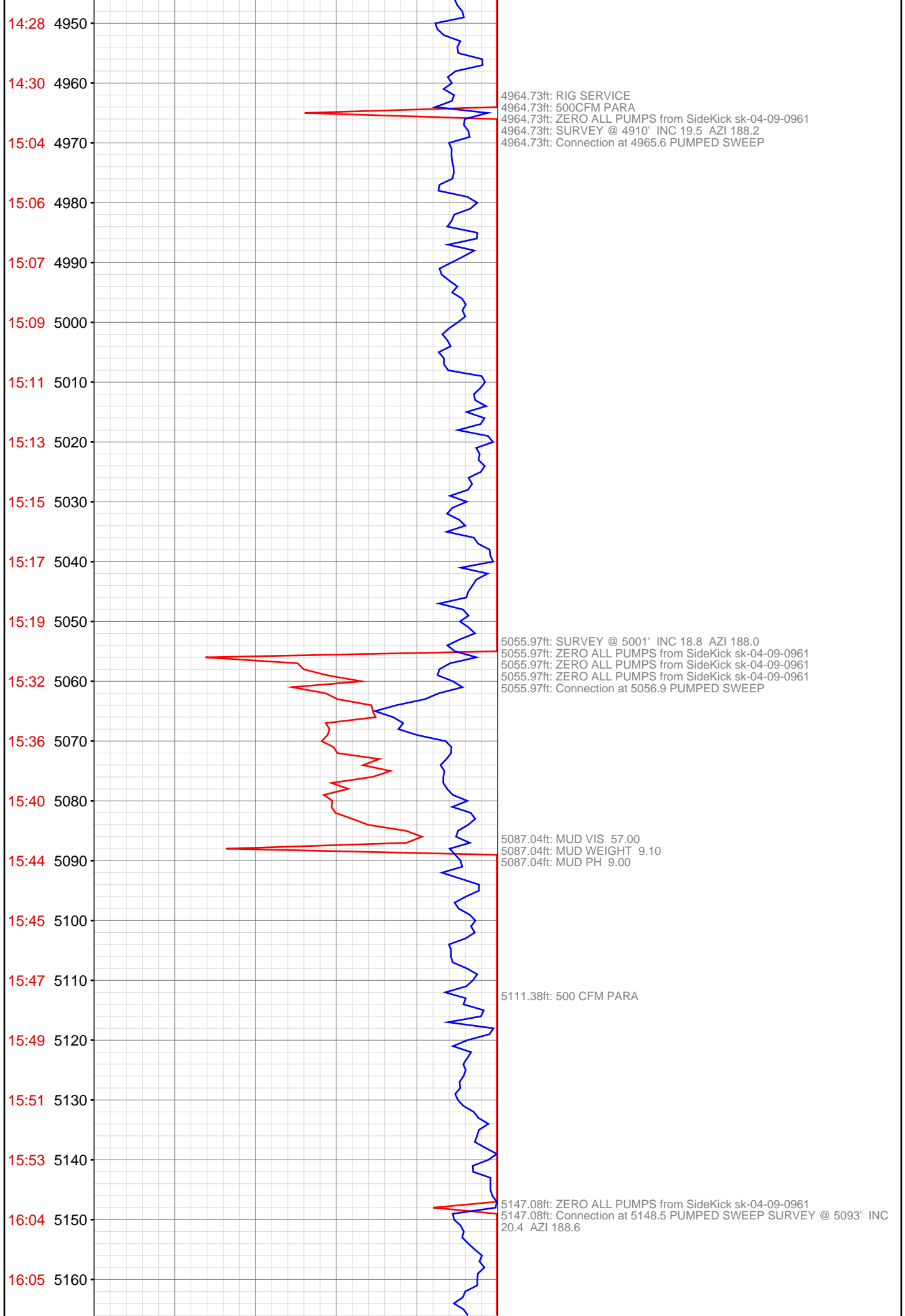
4418.93ft: ZERO ALL PUMPS from SideKick sk-04-09-0961
4418.93ft: SURVEY @ 4361' INC 19.0 AZI 183.1
4418.93ft: Connection at 4416.6 PUMPED SWEEP

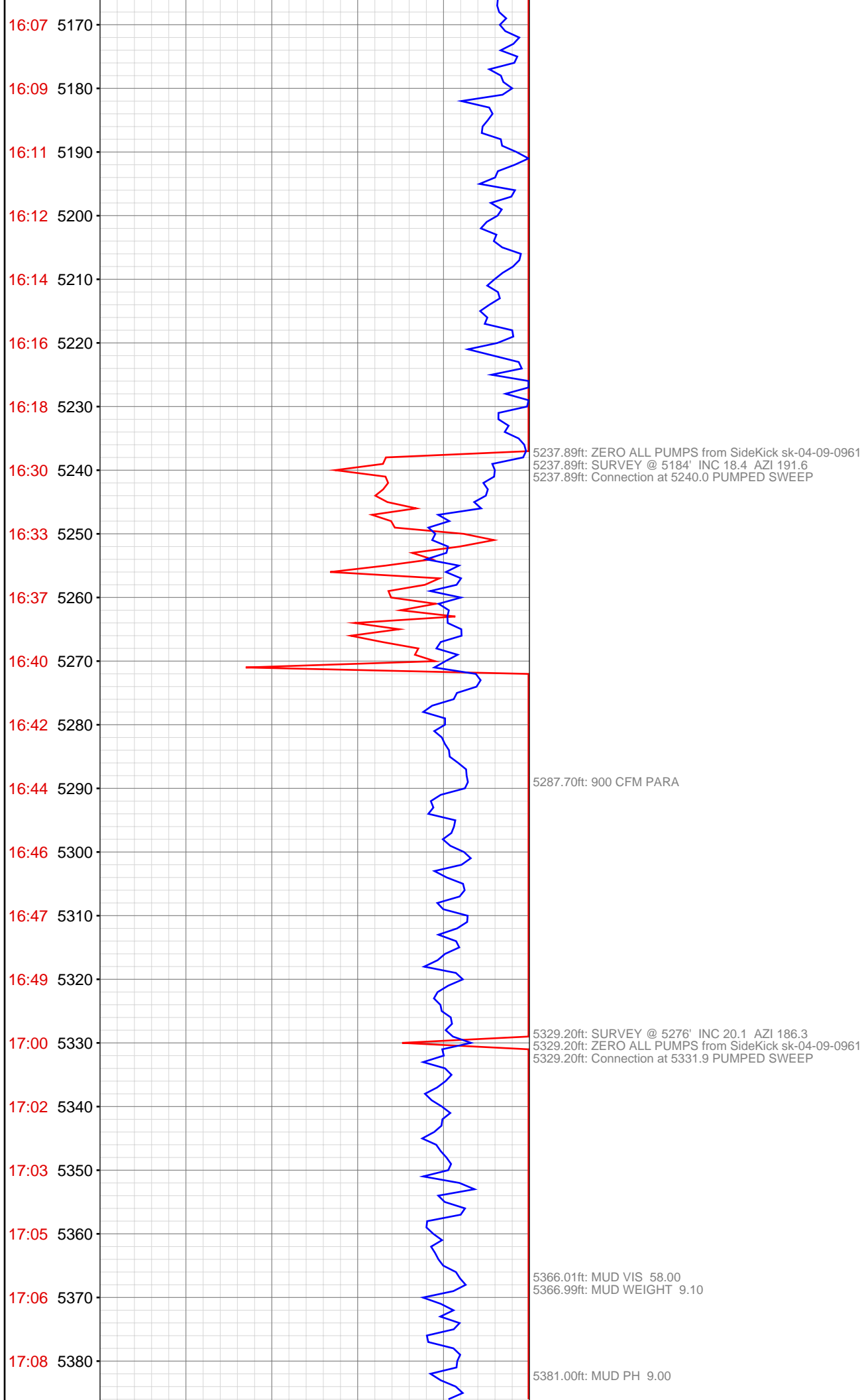
4500.74ft: MUD VIS 56.00

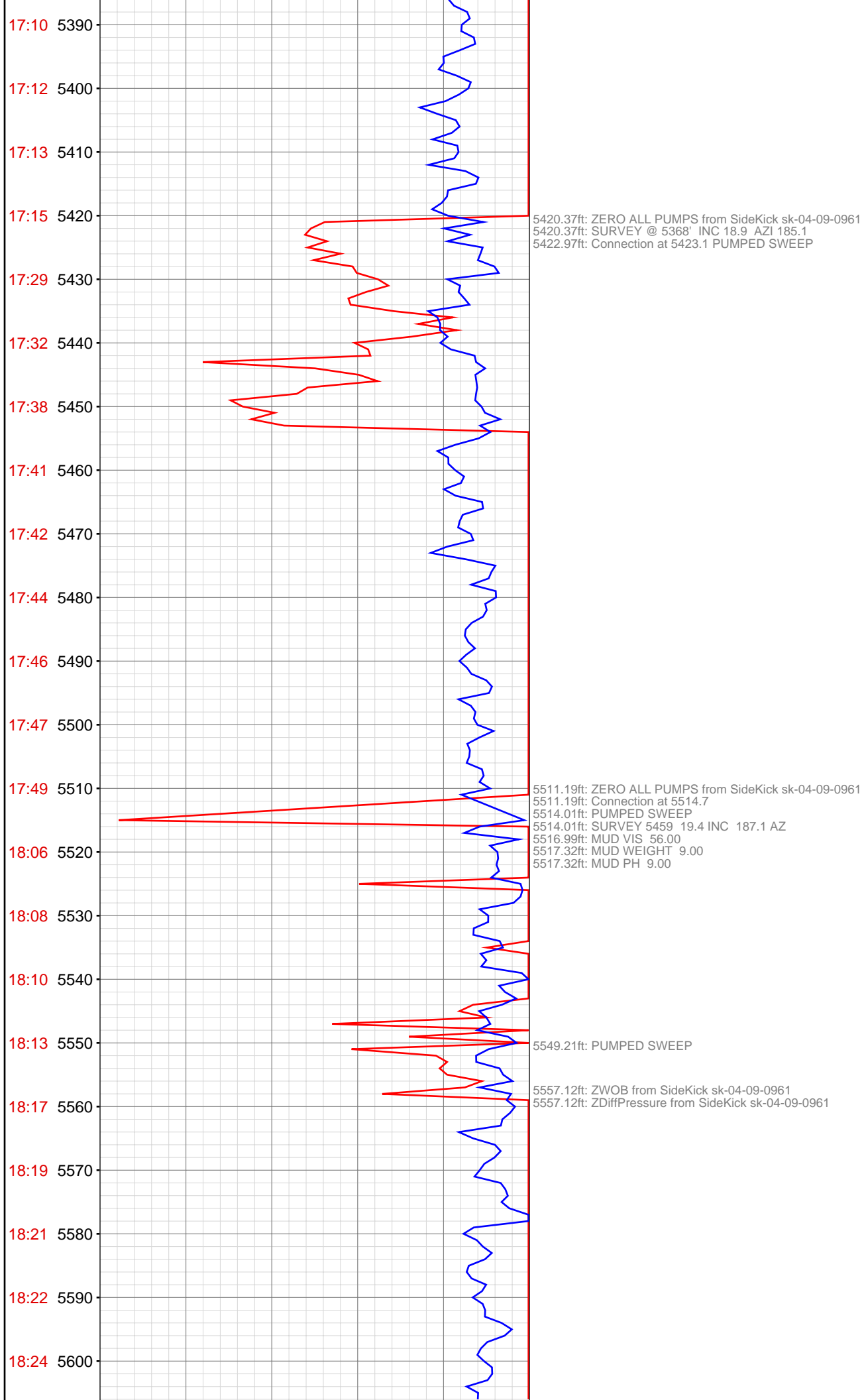


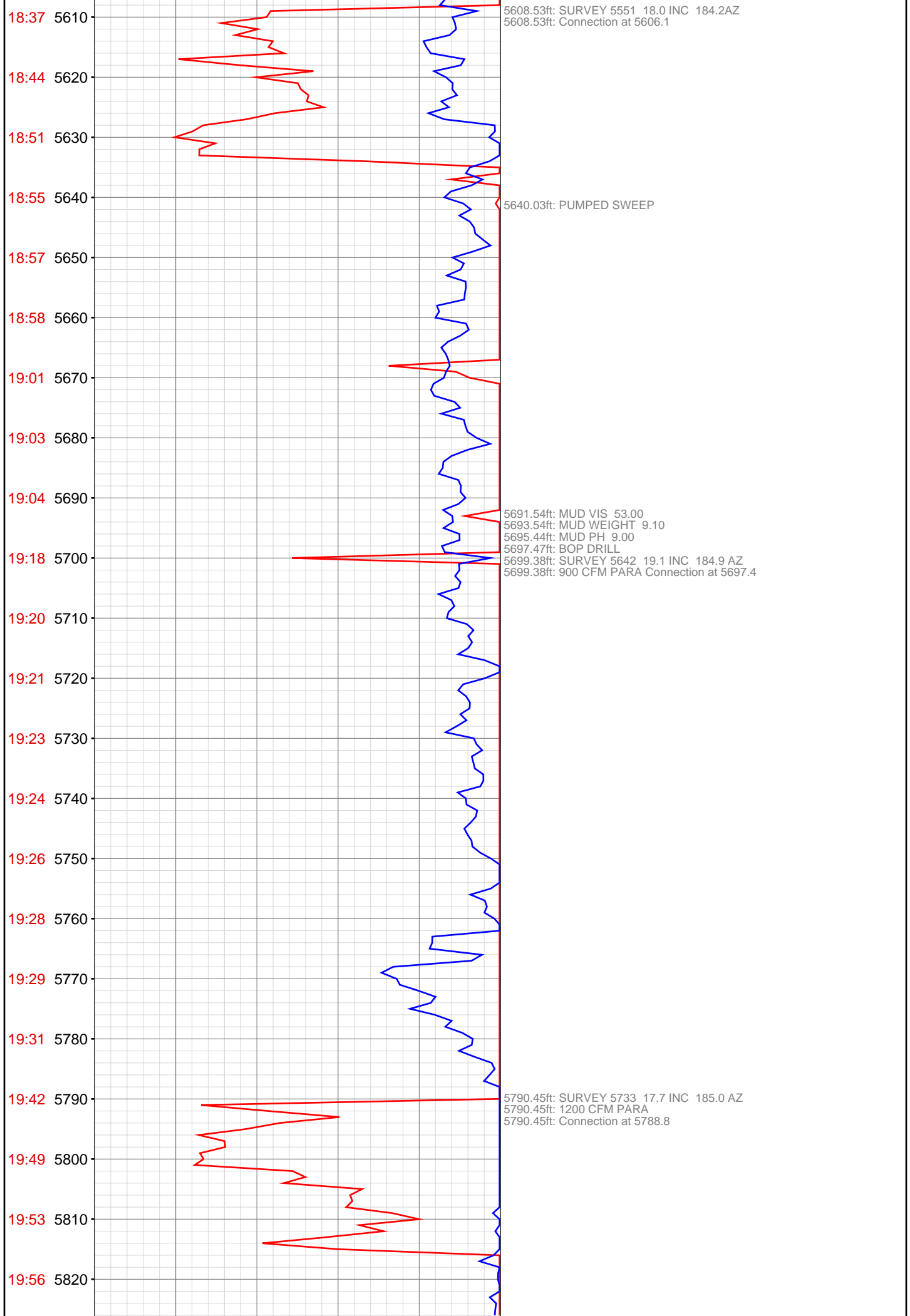


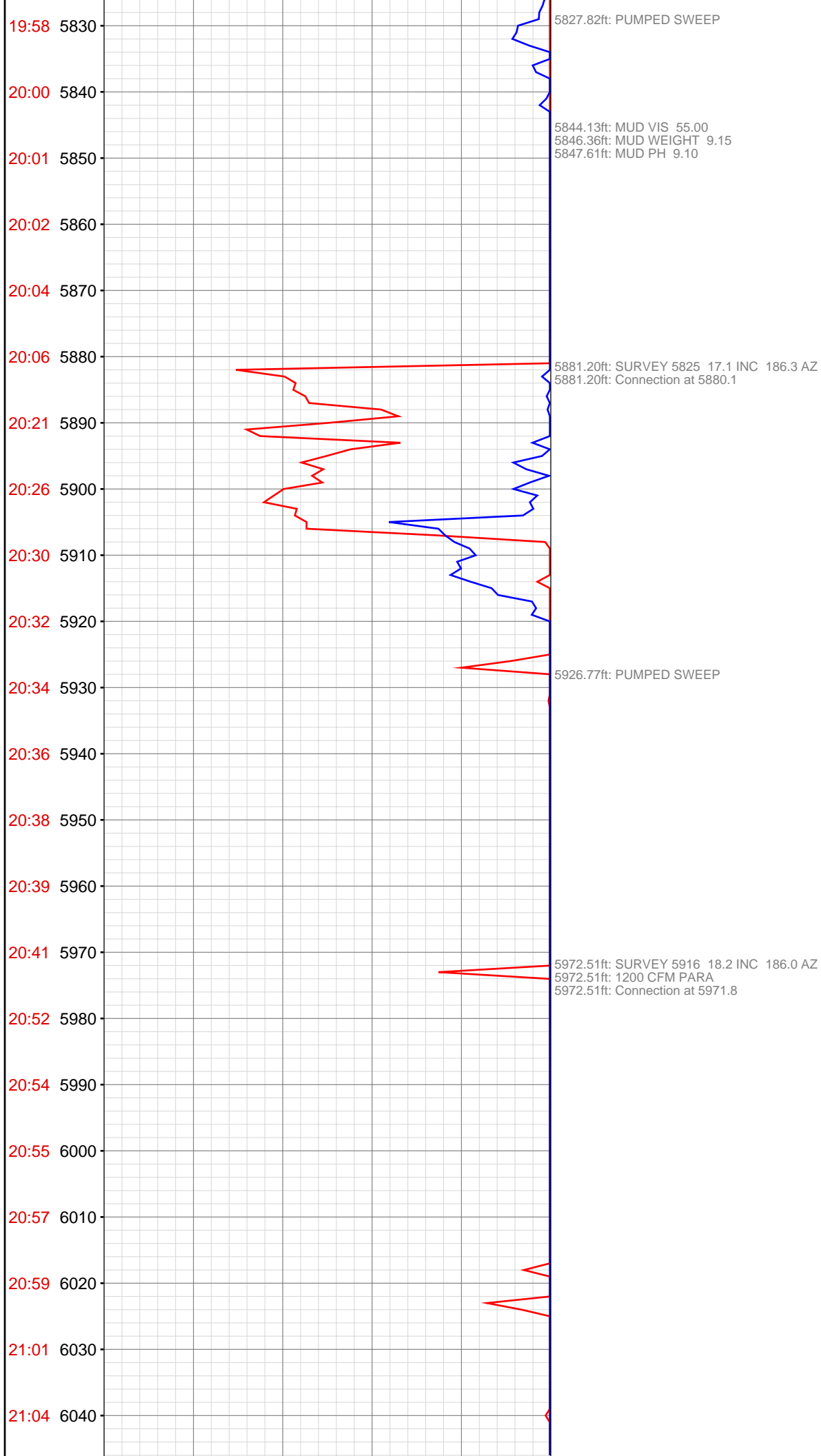


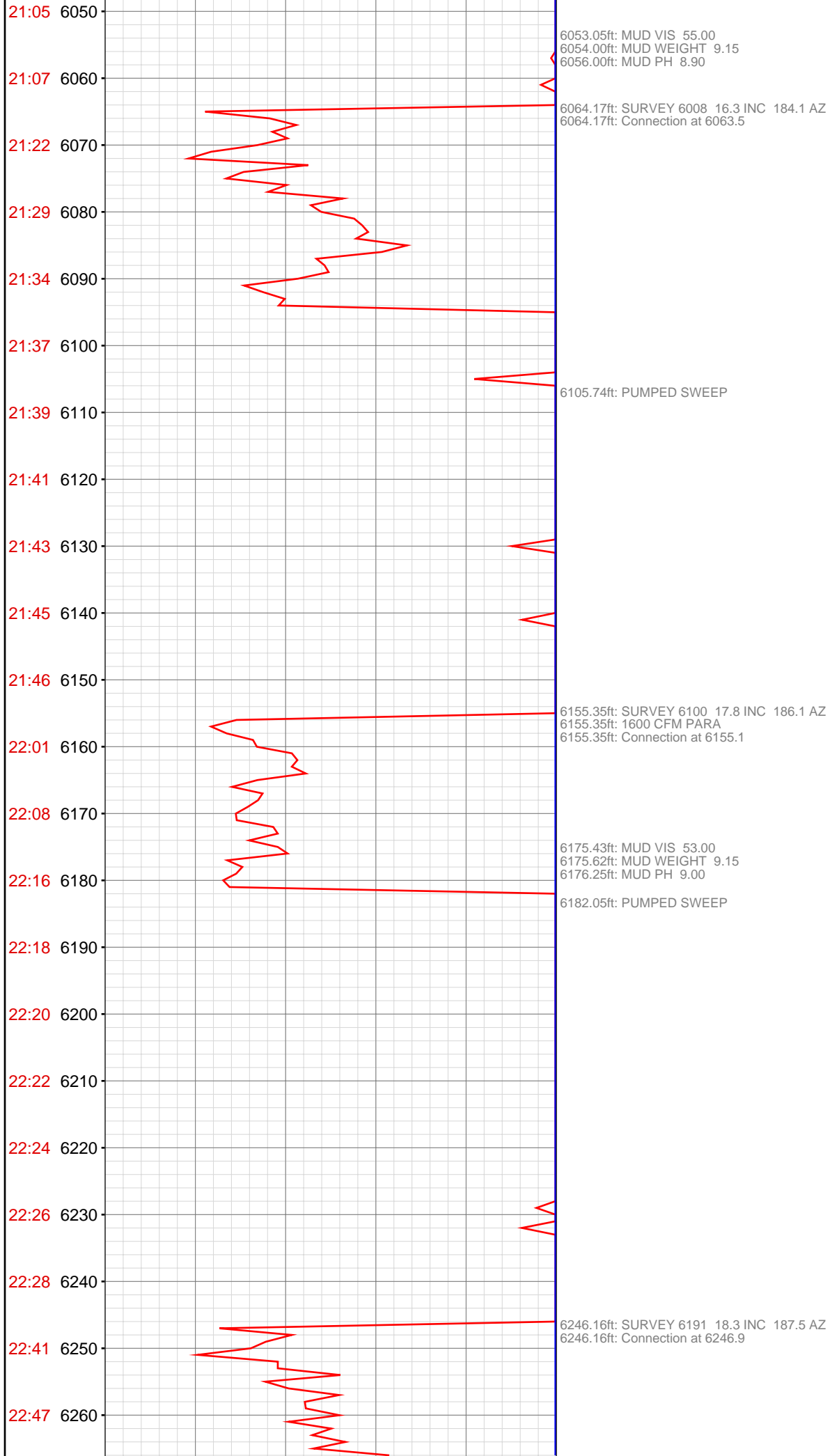


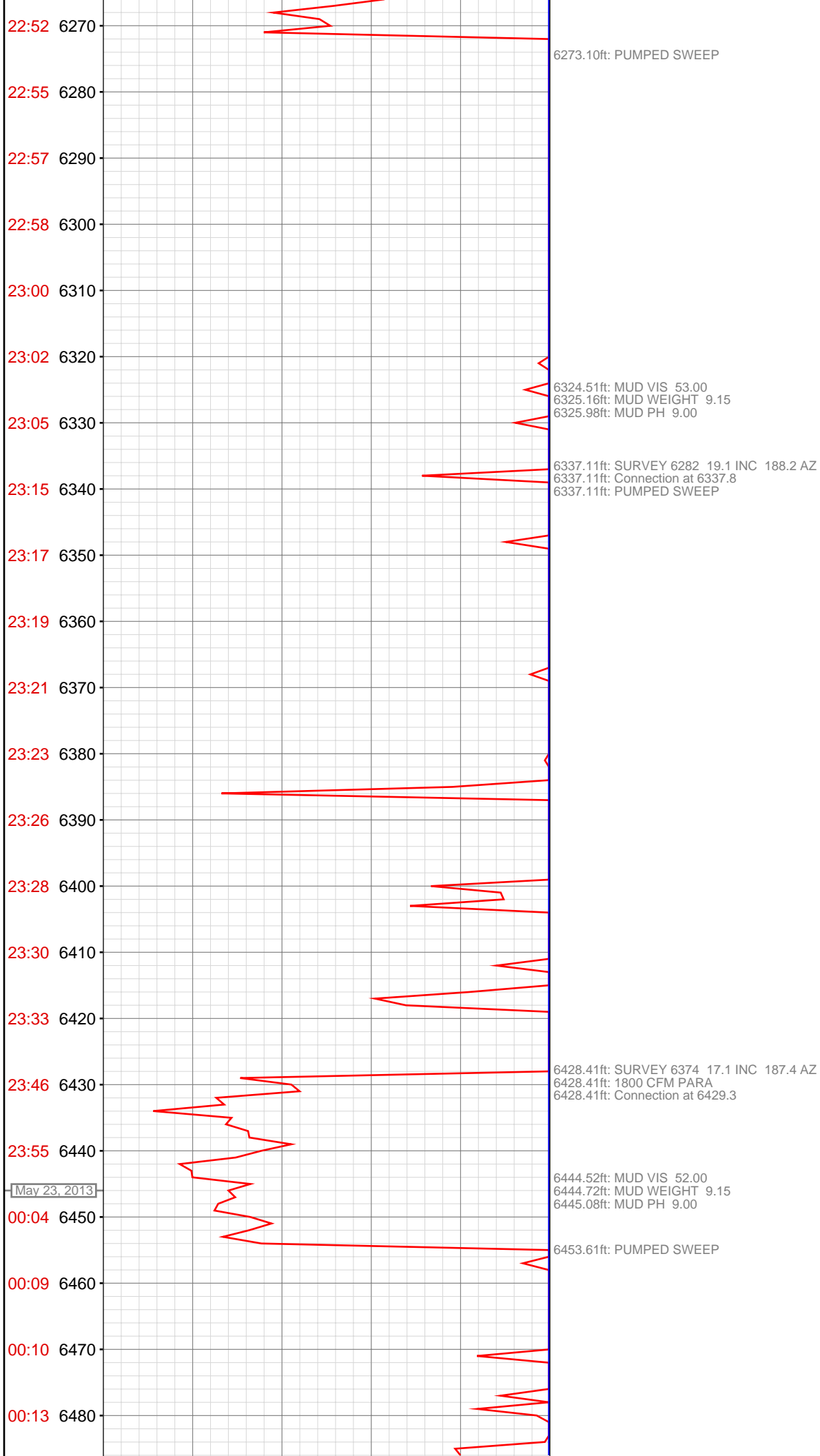


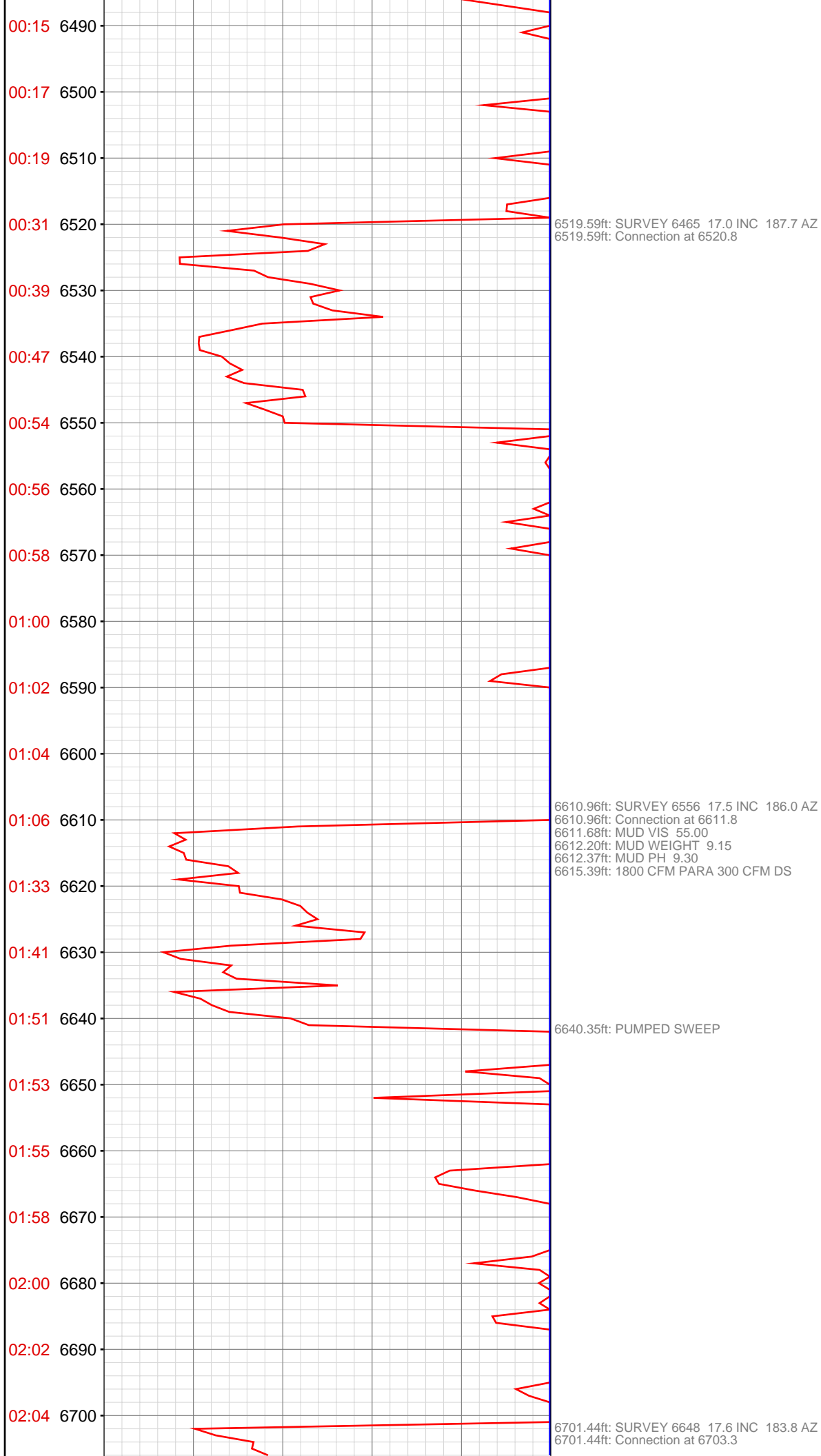


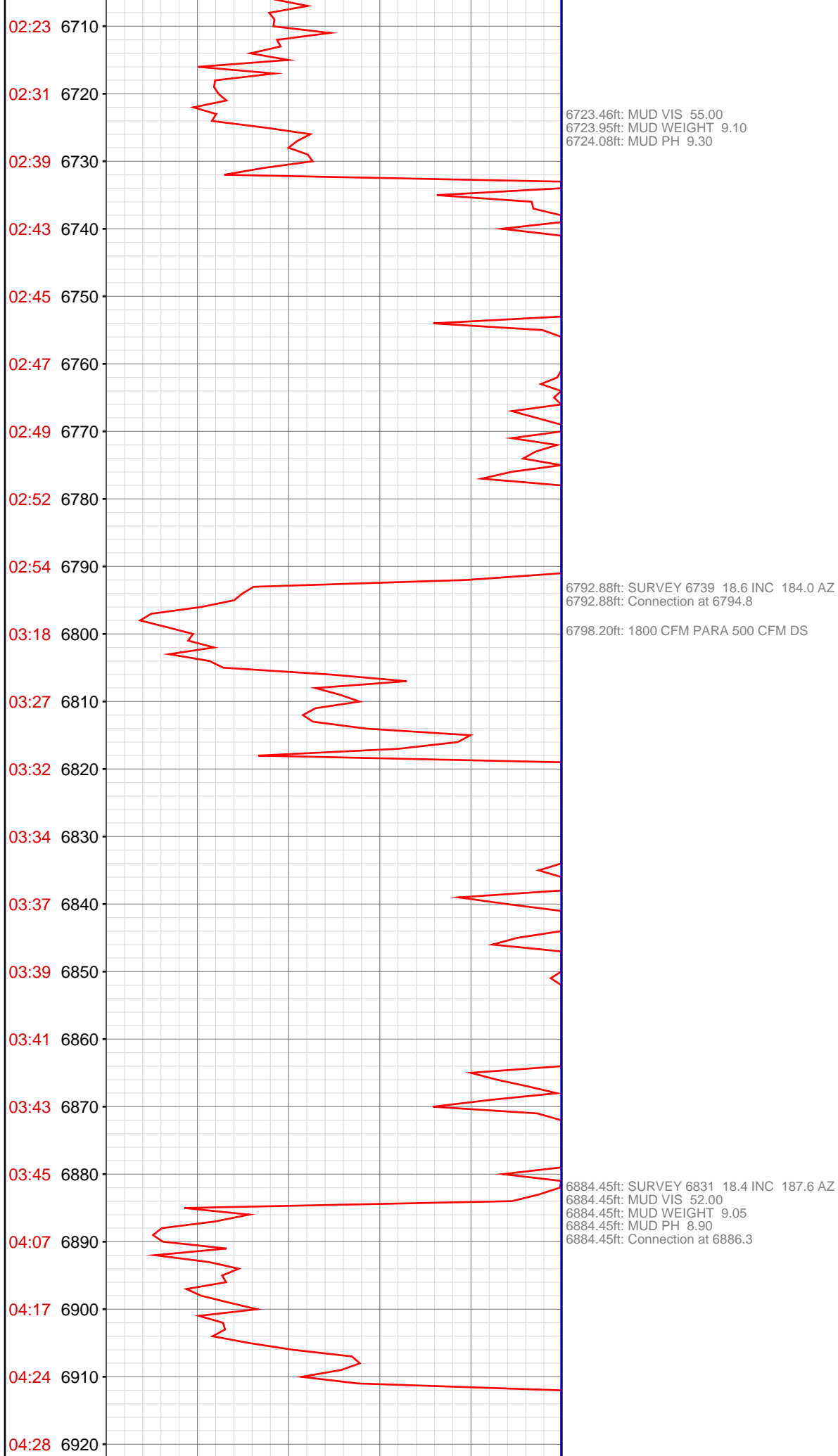












04:30 6930

04:32 6940

04:34 6950

04:36 6960

04:38 6970

04:59 6980

05:11 6990

05:19 7000

05:21 7010

05:24 7020

05:26 7030

05:28 7040

05:30 7050

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05:50 7100

05:52 7110

05:54 7120

05:57 7130

05:59 7140

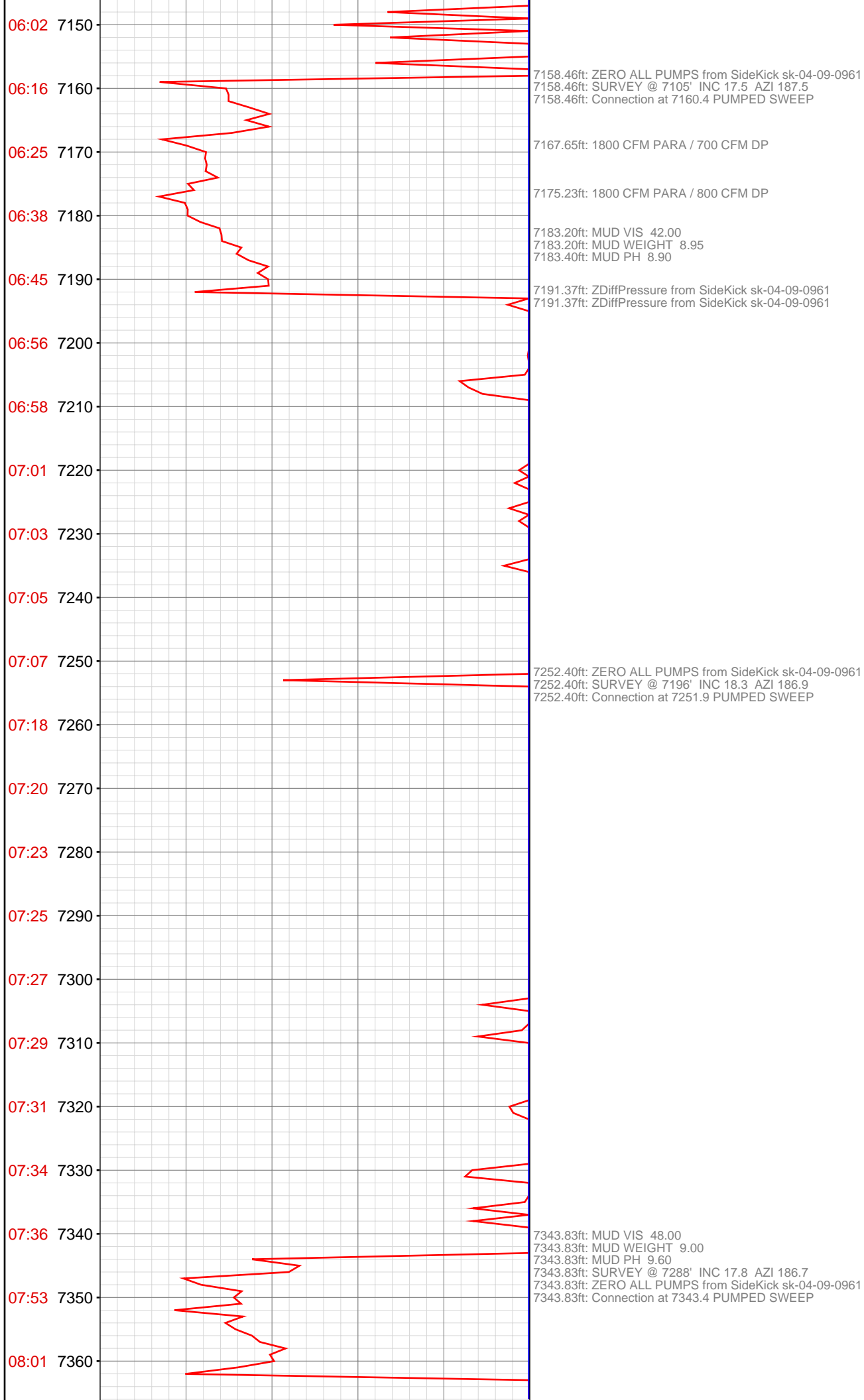
6973.00ft: MUD VIS 52.00
6973.39ft: MUD WEIGHT 9.00
6974.74ft: MUD PH 9.10
6975.85ft: SURVEY 6922 18.5 INC 187.1 AZ
6975.85ft: Connection at 6977.5

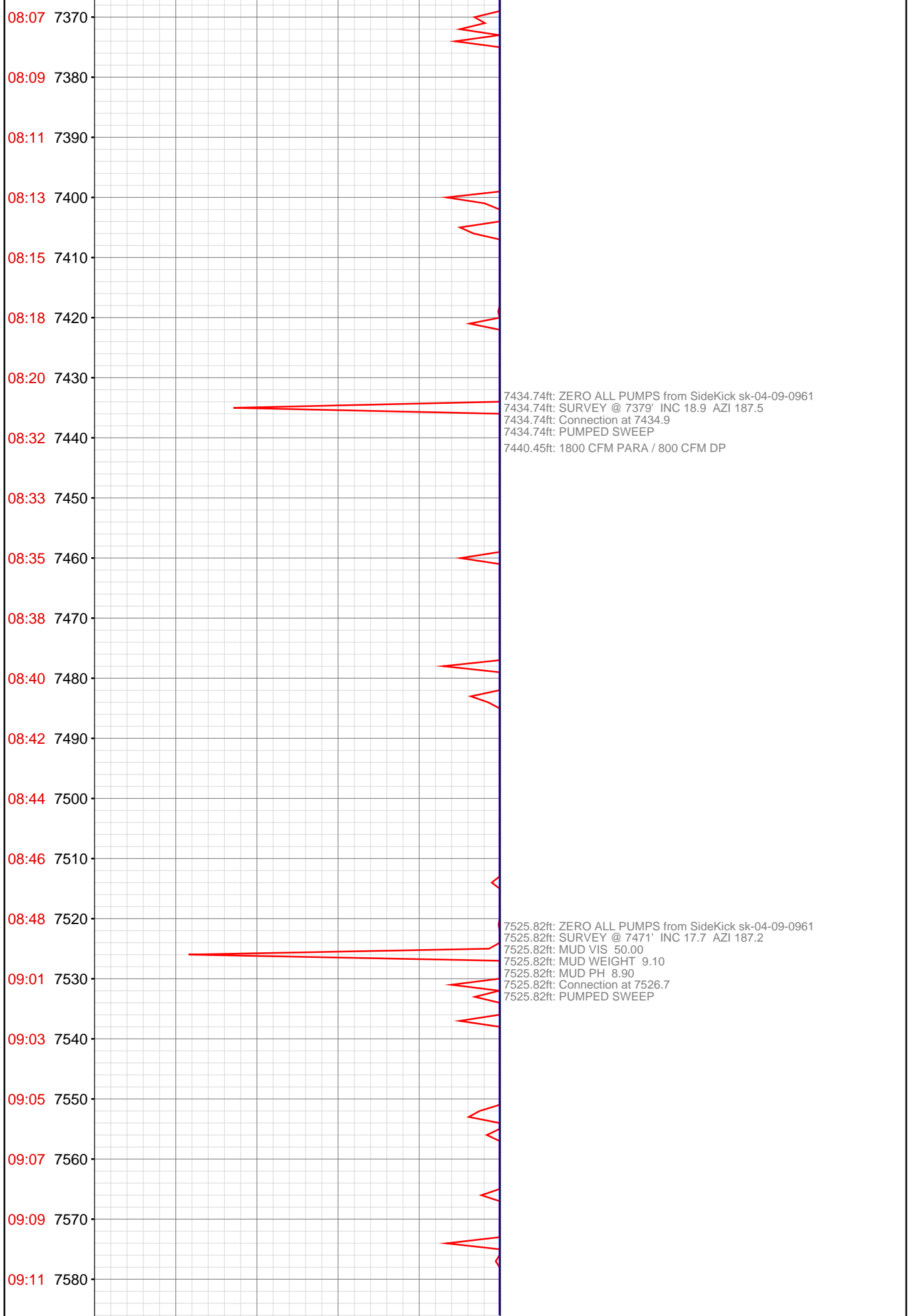
7055.05ft: PUMPED SWEEP

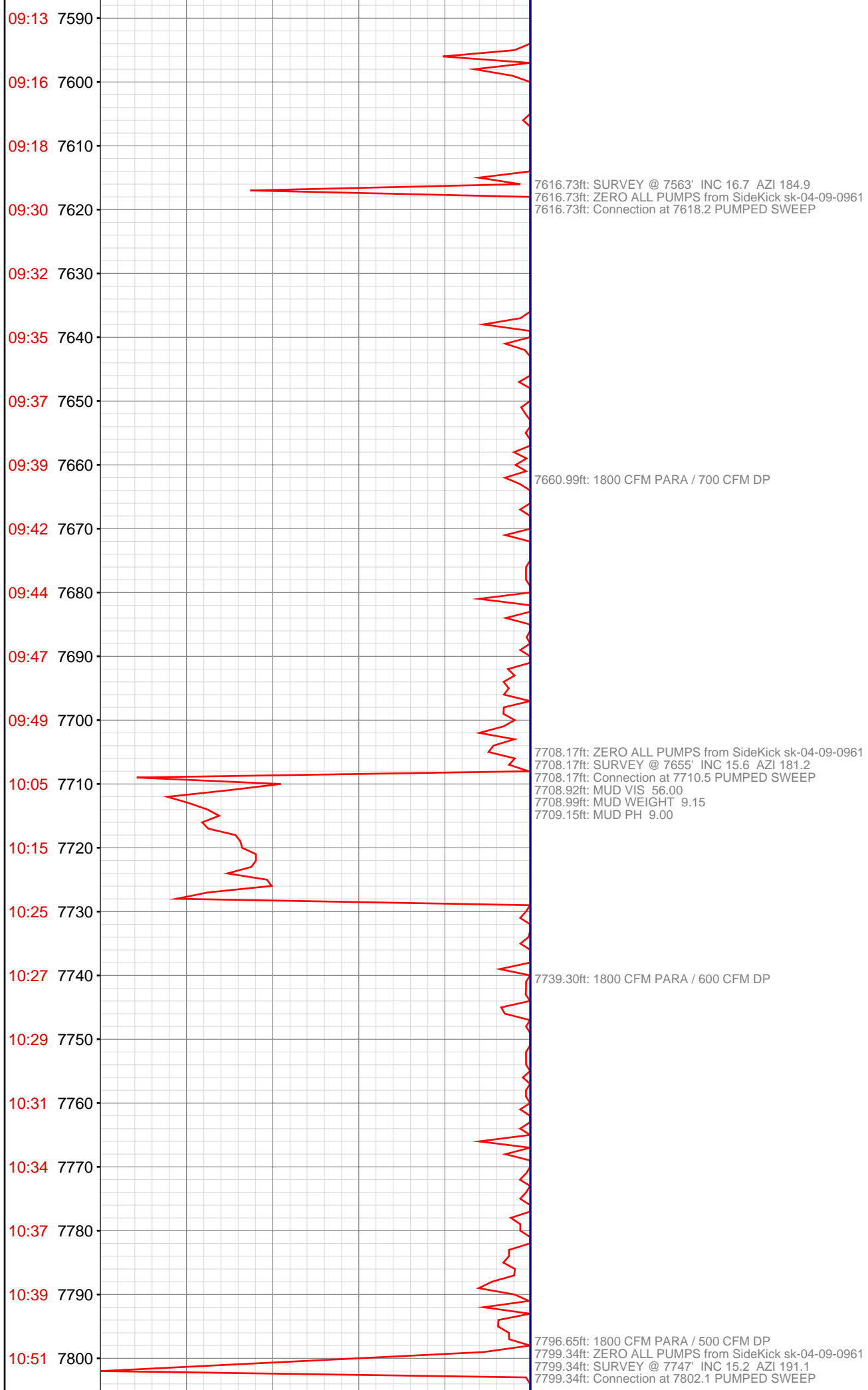
7060.01ft: 1800 CFM PARA 500 CFM DS

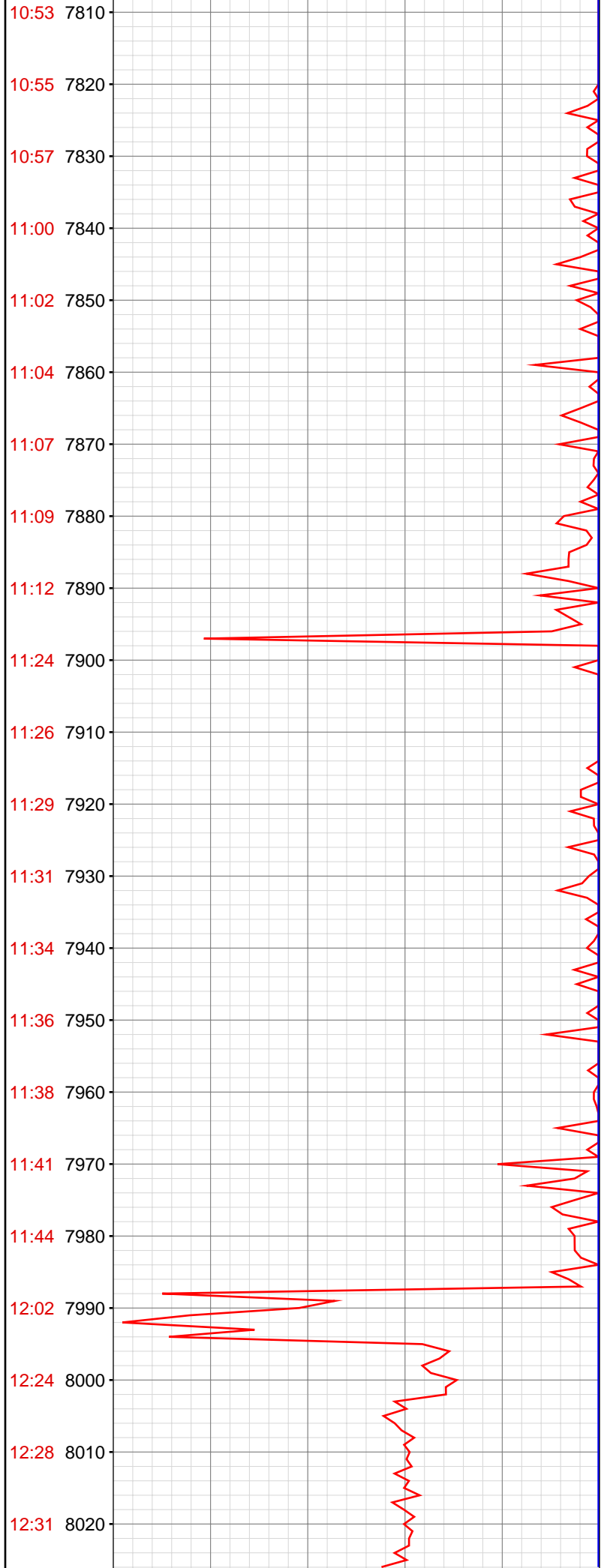
7067.09ft: SURVEY 7013 19.4 INC 186.9 AZ
7067.09ft: Connection at 7068.9
7067.09ft: MUD VIS 57.00
7067.09ft: MUD WEIGHT 9.00
7067.09ft: MUD PH 9.10

7121.79ft: 1800 CFM PARA / 600 CFM DP



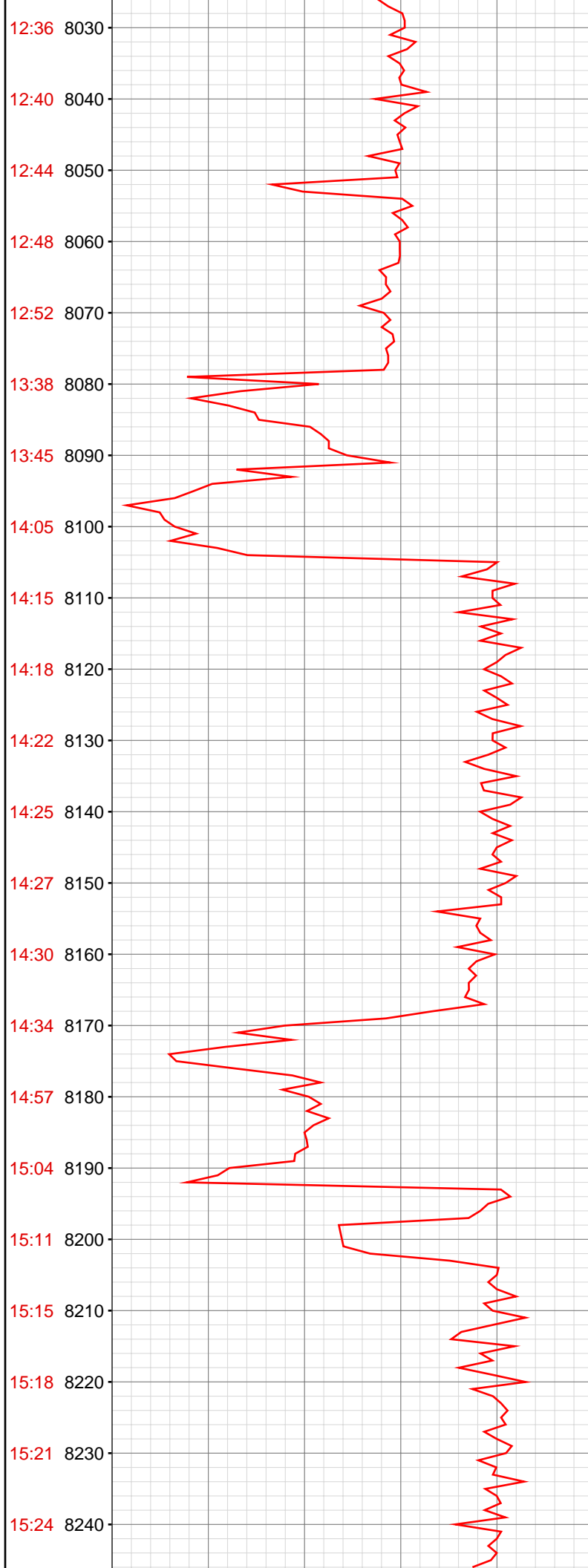






7885.04ft: 1800 CFM PARA / 300 CFM DP
7885.99ft: MUD VIS 54.00
7887.01ft: MUD WEIGHT 9.00
7888.25ft: MUD PH 9.00
7896.52ft: ZERO ALL PUMPS from SideKick sk-04-09-0961
7896.52ft: SURVEY @ 7838' INC 14.9 AZI 188.3
7896.52ft: Connection at 7893.5
7896.52ft: PUMPED SWEEP

7987.83ft: 1800 CFM PARA / 200 CFM DP
7987.83ft: ZERO ALL PUMPS from SideKick sk-04-09-0961
7987.83ft: Connection at 7984.5 SURVEY @ 7929' INC 13.9 AZI 188.1
7987.83ft: PUMPED SWEEP
7987.83ft: 1800 CFM PARA / 300 CFM DP
7990.06ft: wait on 330 to slide
7991.21ft: TRANSFER PREMIX TO ACTIVE



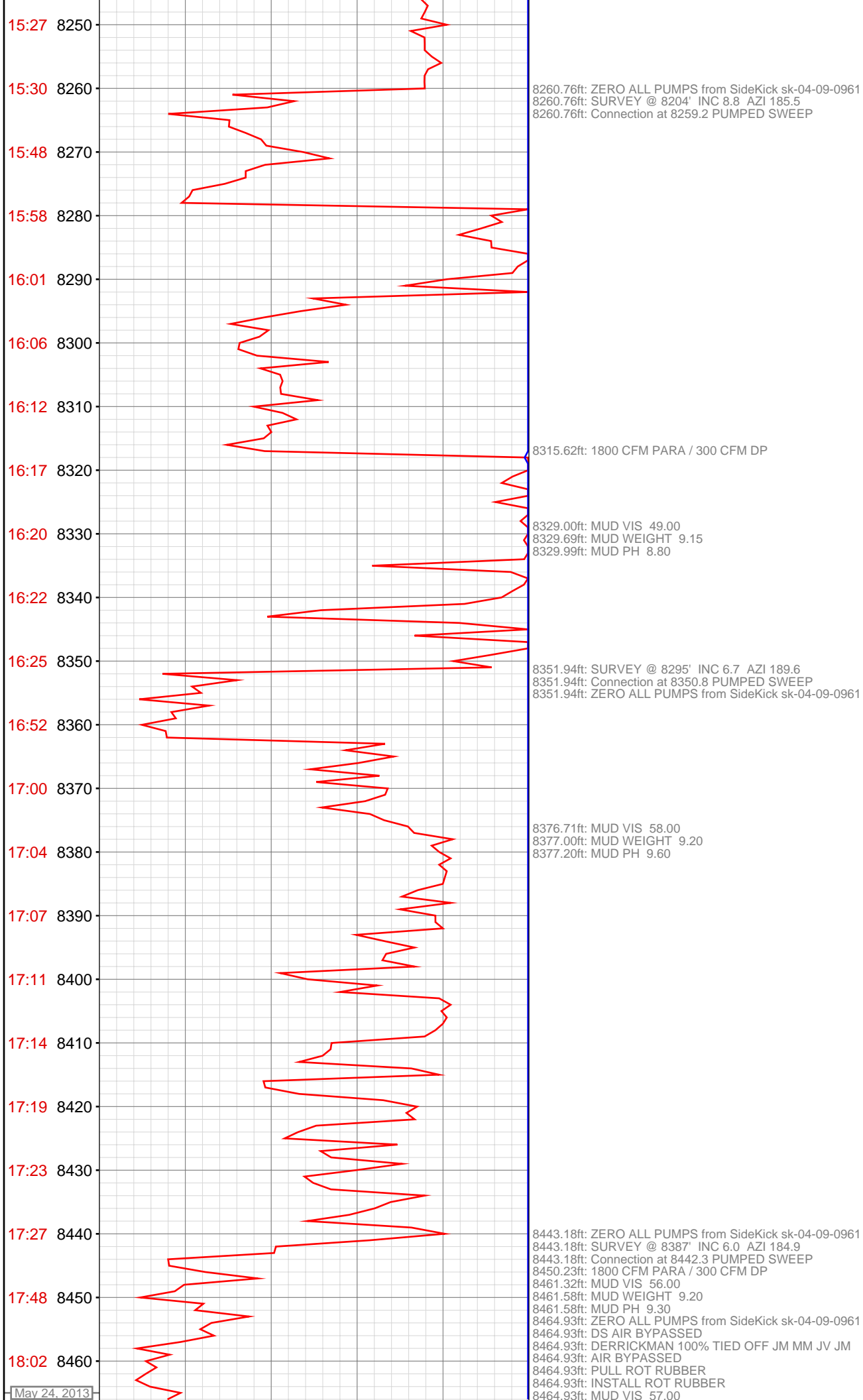
8072.44ft: MUD VIS 52.00
8072.90ft: MUD WEIGHT 9.05
8073.00ft: MUD PH 9.40
8078.87ft: ZERO ALL PUMPS from SideKick sk-04-09-0961
8078.87ft: RIG SERVICE
8078.87ft: inter ference from 330 on surveys
8078.87ft: Connection at 8076.1
8078.87ft: PUMPED SWEEP
8078.87ft: ZERO ALL PUMPS from SideKick sk-04-09-0961
8084.19ft: 1800 CFM PARA / 300 CFM DP

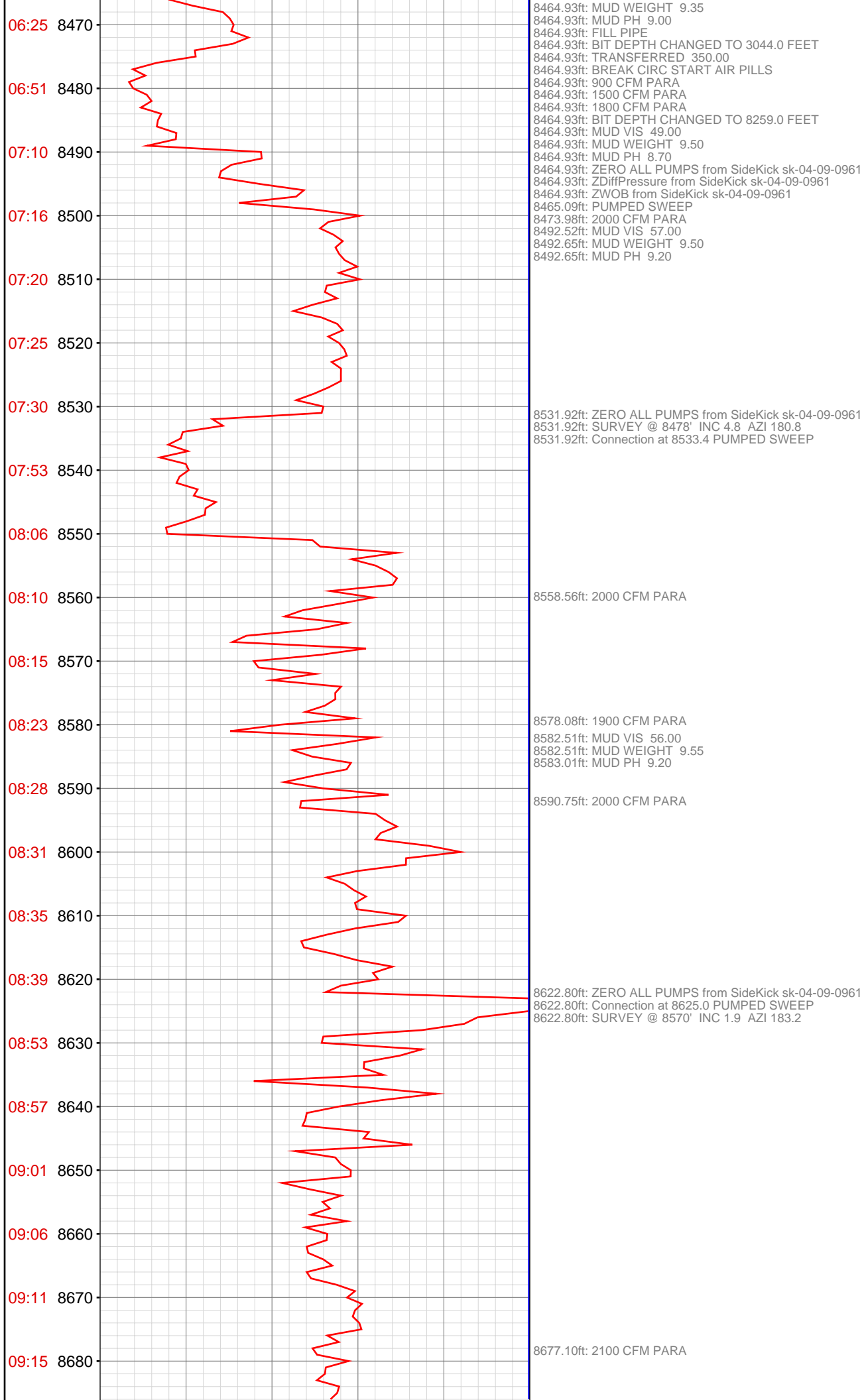
8101.48ft: MUD VIS 48.00
8101.48ft: MUD WEIGHT 9.10
8101.61ft: MUD PH 9.40

8170.18ft: ZERO ALL PUMPS from SideKick sk-04-09-0961
8170.18ft: SURVEY @ 8112' INC 11.5 AZI 184.2
8170.18ft: Connection at 8167.5
8170.18ft: PUMPED SWEEP

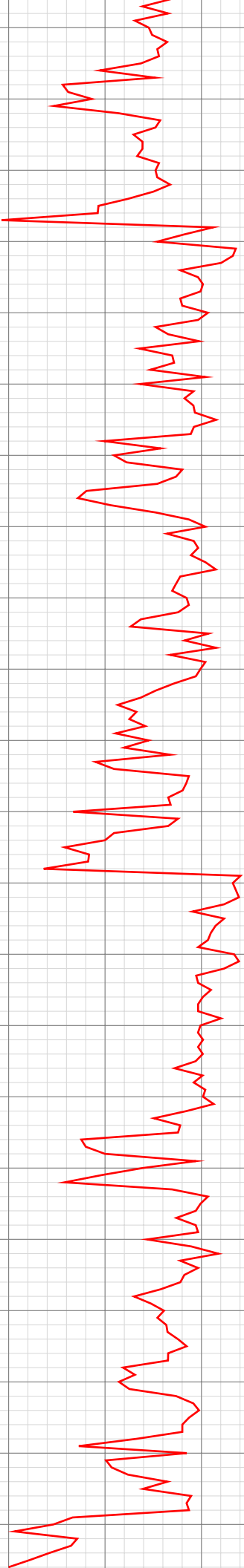
8186.75ft: 1800 CFM PARA / 300 CFM DP

8210.33ft: MUD VIS 56.00
8210.33ft: MUD WEIGHT 9.15
8210.99ft: MUD PH 9.20





09:20 8690
09:25 8700
09:30 8710
09:46 8720
09:50 8730
09:55 8740
09:59 8750
10:04 8760
10:08 8770
10:13 8780
10:18 8790
10:22 8800
10:39 8810
10:43 8820
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10:51 8840
10:56 8850
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11:05 8870
11:10 8880
11:15 8890
11:35 8900



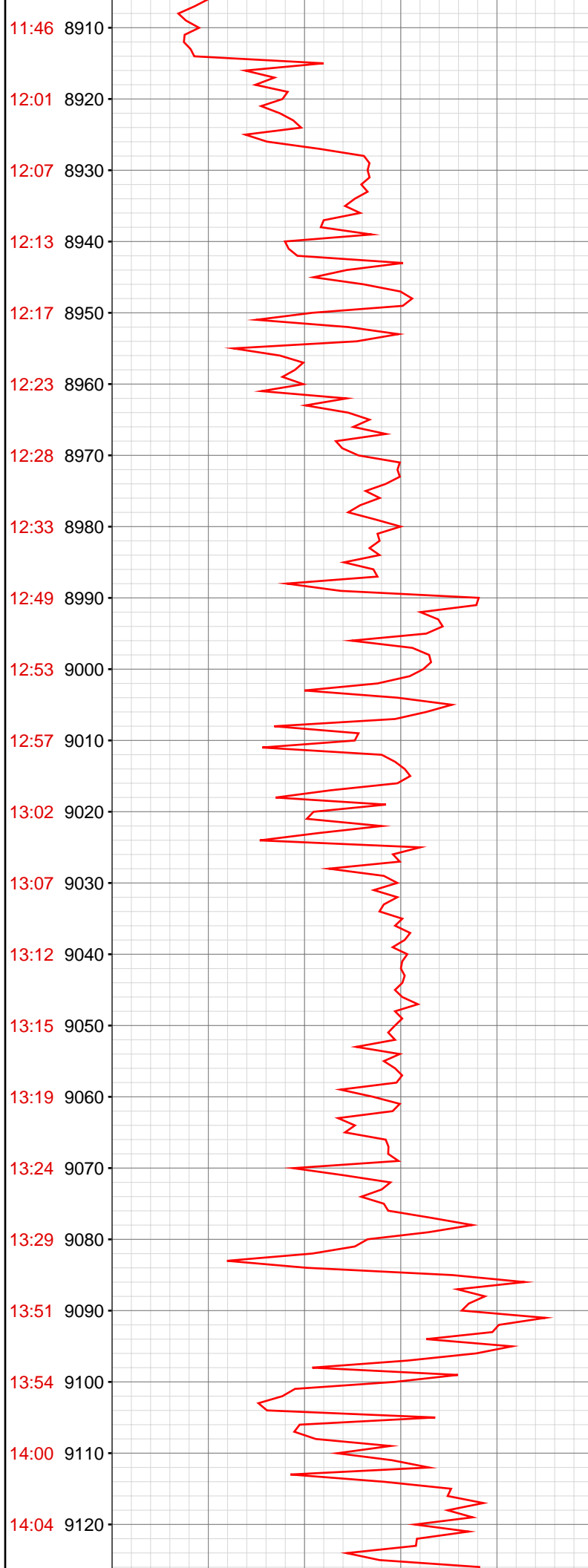
8716.27ft: ZERO ALL PUMPS from SideKick sk-04-09-0961
8716.27ft: Connection at 8716.8 PUMPED SWEEP SURVEY @ 8662' INC 1.1 AZI 175.5

8724.67ft: 2000 CFM PARA
8728.38ft: MUD VIS 52.00
8728.38ft: MUD WEIGHT 9.50
8728.61ft: MUD PH 8.90

8807.45ft: ZERO ALL PUMPS from SideKick sk-04-09-0961
8807.45ft: Connection at 8808.5 PUMPED SWEEP
8807.45ft: SURVEY @ 8754' INC 1.2 AZI 171.9

8871.33ft: 1900 CFM PARA
8872.01ft: MUD VIS 56.00
8872.08ft: MUD WEIGHT 9.50
8872.08ft: MUD PH 9.40

8898.39ft: ZERO ALL PUMPS from SideKick sk-04-09-0961
8898.39ft: SURVEY @ 8845' INC 0.9 AZI 174.3
8898.39ft: Connection at 8899.5 PUMPED SWEEP



8917.03ft: 1800 CFM PARA

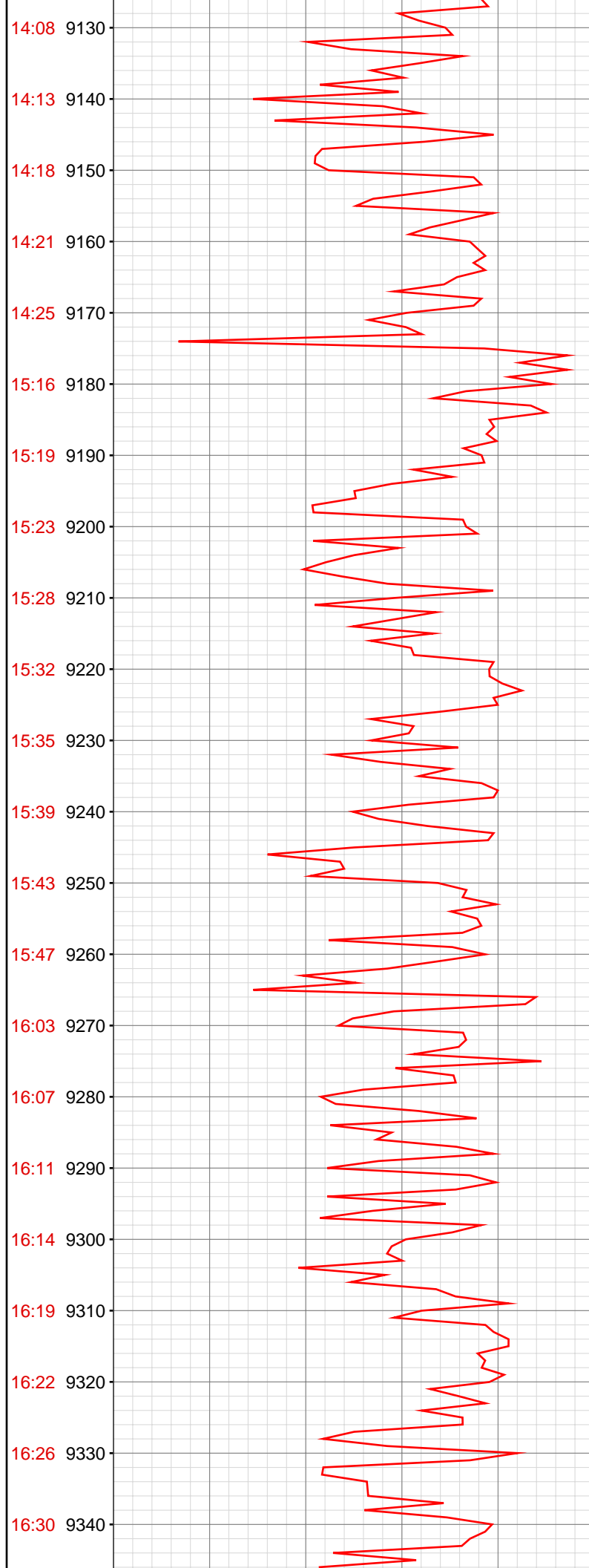
8931.37ft: 1700 CFM PARA

8962.07ft: 1500 CFM PARA

8975.23ft: 1400 CFM PARA

8988.22ft: MUD VIS 55.00
8988.22ft: MUD WEIGHT 9.55
8988.45ft: MUD PH 9.00
8989.44ft: 1200 CFM PARA
8989.44ft: ZERO ALL PUMPS from SideKick sk-04-09-0961
8989.44ft: SURVEY @ 8936' INC 0.7 AZI 301.0
8989.44ft: Connection at 8991.0 PUMPED SWEEP

9082.15ft: MUD VIS 52.00
9082.15ft: MUD WEIGHT 9.55
9082.15ft: MUD PH 9.60
9082.15ft: ZERO ALL PUMPS from SideKick sk-04-09-0961
9082.15ft: Connection at 9082.5
9082.15ft: PUMPED SWEEP
9082.15ft: SURVEY @ 9027' INC 0.5 AZI 315.0



9173.33ft: RIG SERVICE
9173.33ft: MUD VIS 54.00
9173.33ft: MUD WEIGHT 9.60
9173.33ft: MUD PH 9.30
9173.33ft: SURVEY @ 9119' INC 0.7 AZI 277.0
9173.33ft: ZERO ALL PUMPS from SideKick sk-04-09-0961
9173.33ft: Connection at 9174.0 PUMPED SWEEP

9264.93ft: ZERO ALL PUMPS from SideKick sk-04-09-0961
9264.93ft: Connection at 9265.8
9264.93ft: PUMPED SWEEP
9264.93ft: SURVEY @ 9210' INC 1.4 AZI 274.7

9281.99ft: MUD VIS 49.00
9281.99ft: MUD WEIGHT 9.60
9281.99ft: MUD PH 9.20

9295.34ft: TRANSFER PREMIX TO ACTIVE

9304.46ft: 1200 CFM PARA

9342.52ft: 1100 CFM PARA

16:34 9350
16:53 9360
17:10 9370
17:38 9380
17:50 9390
17:54 9400
17:59 9410
18:03 9420
18:08 9430
18:12 9440
18:33 9450
18:43 9460
18:52 9470
19:03 9480
19:07 9490
19:12 9500
19:16 9510
19:20 9520
19:24 9530
19:43 9540
19:52 9550
20:04 9560

9356.14ft: Connection at 9357.3 PUMPED SWEEP
9356.14ft: ZERO ALL PUMPS from SideKick sk-04-09-0961
9356.14ft: SURVEY @ 9302' INC 1.7 AZI 277.7
9363.22ft: MUD VIS 54.00
9363.22ft: MUD WEIGHT 9.55
9363.22ft: MUD PH 9.10

9376.31ft: 1000 CFM PARA
9380.02ft: 900 CFM PARA

9433.99ft: MUD VIS 49.00
9434.58ft: MUD WEIGHT 9.70
9435.01ft: MUD PH 9.00

9447.54ft: SURVEY 9394 2.0 INC 260.1 AZ
9447.54ft: Connection at 9449.3

9466.96ft: 1200 CFM PARA

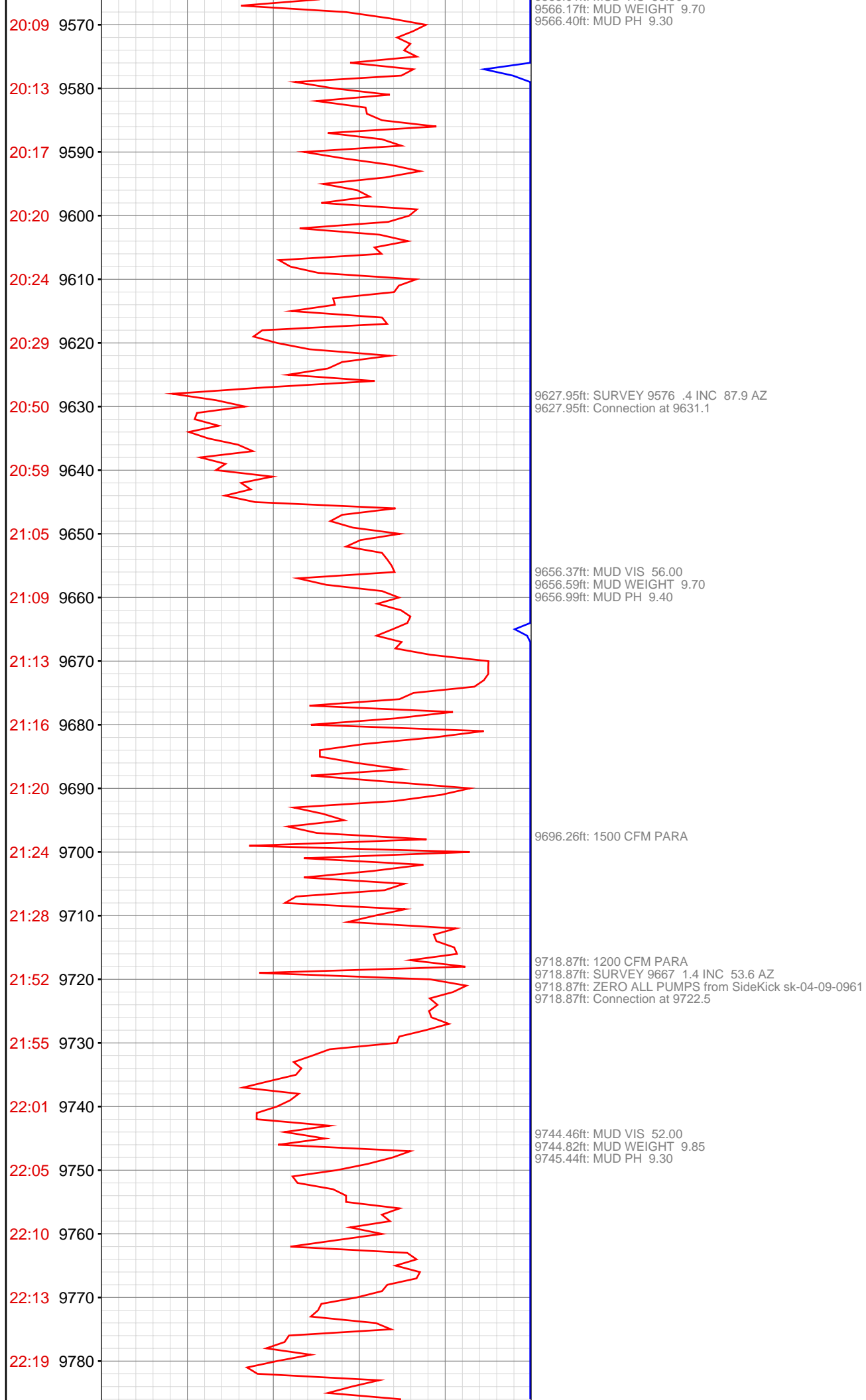
9487.21ft: PUMPED SWEEP

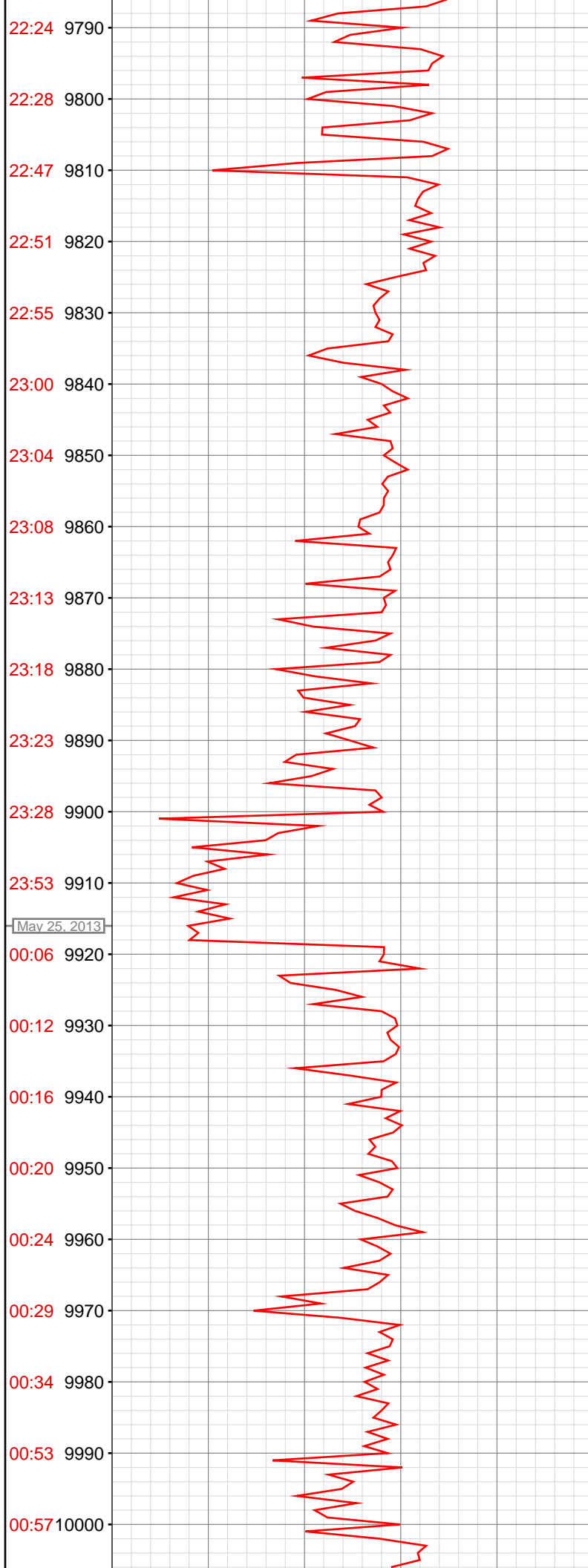
9499.57ft: MUD VIS 49.00
9499.57ft: MUD WEIGHT 9.70
9500.00ft: MUD PH 9.30

9538.12ft: SURVEY 9485 .2 INC 173.9 AZ
9538.12ft: Connection at 9540.2

9555.77ft: 1200 CFM PARA

9566.01ft: MUD VIS 56.00





9809.81ft: SURVEY 9758 1.2 INC 52.9 AZ
9809.81ft: Connection at 9814.0
9809.81ft: ZERO ALL PUMPS from SideKick sk-04-09-0961

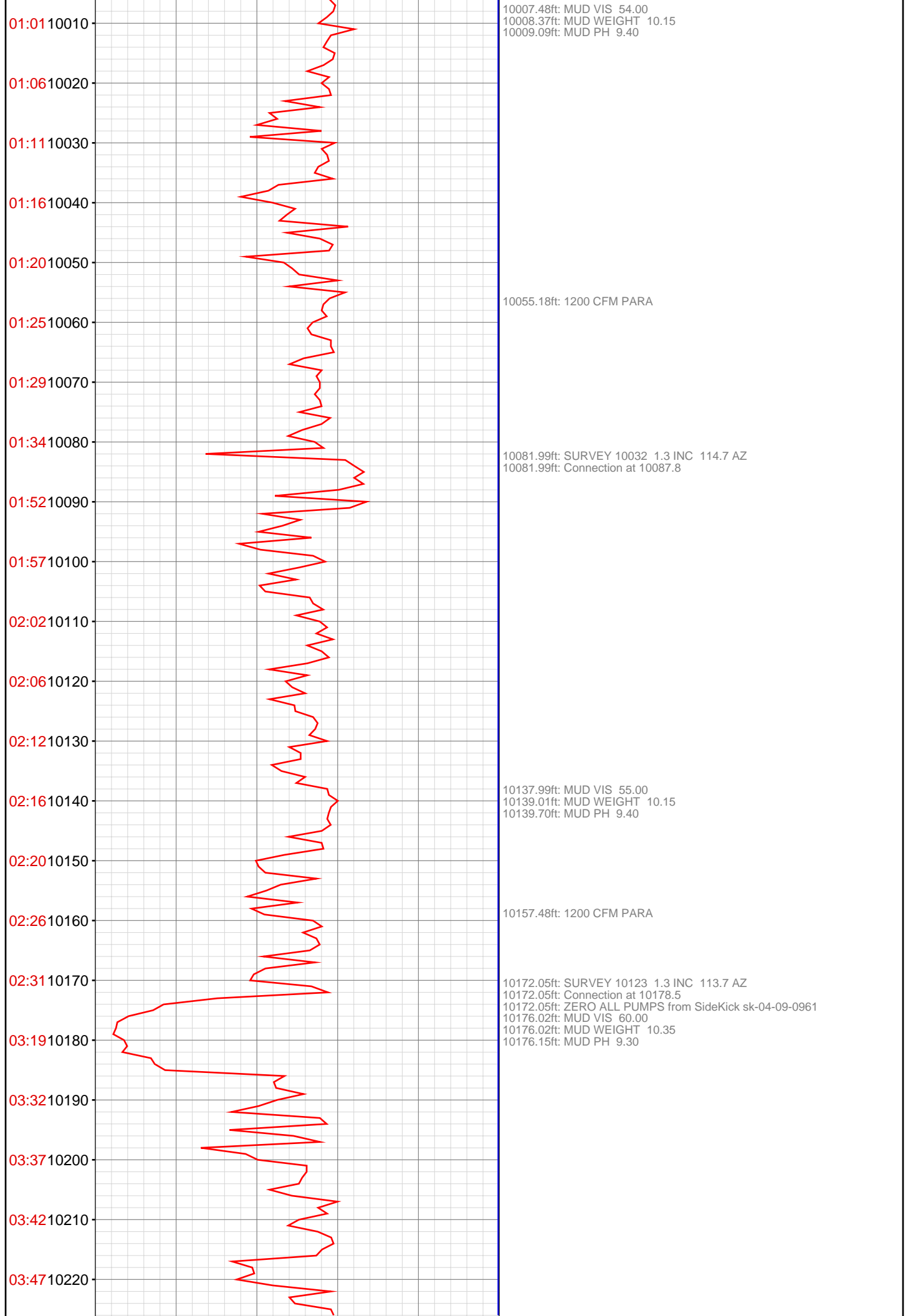
9856.89ft: 1200 CFM PARA
9858.37ft: MUD VIS 56.00
9859.09ft: MUD WEIGHT 10.05
9859.35ft: MUD PH 9.50

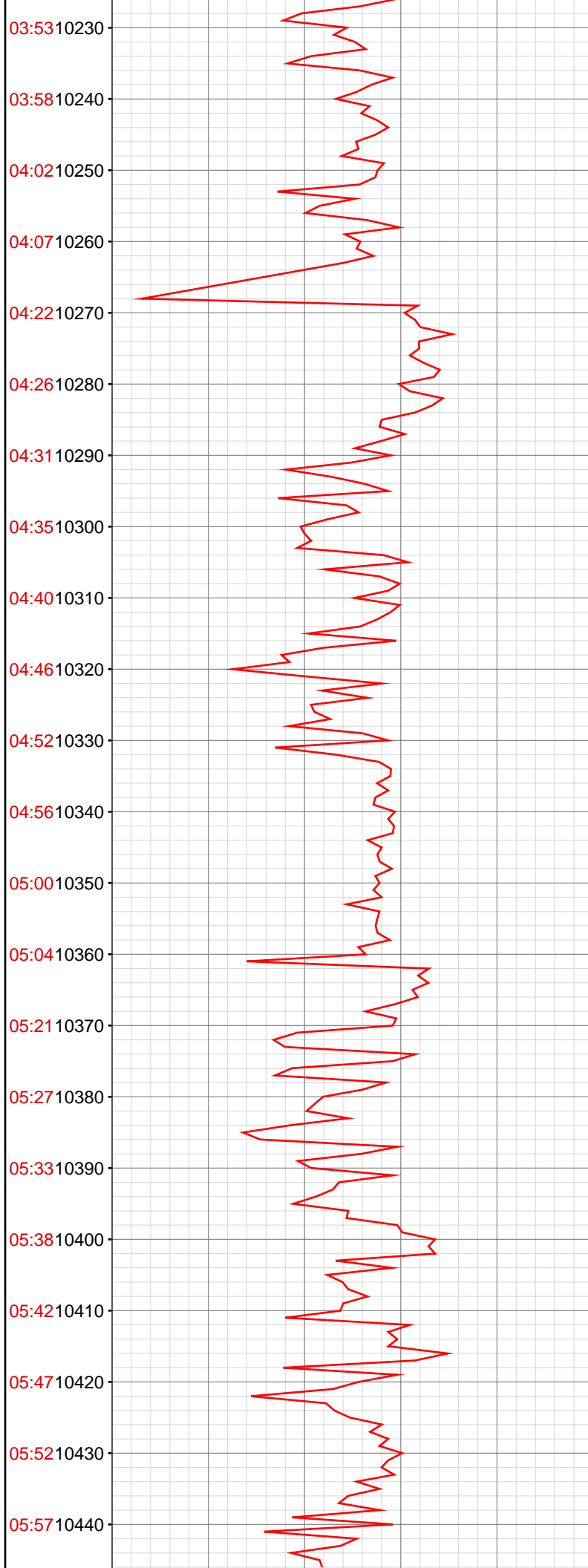
9900.85ft: SURVEY 9850 1.3 INC 48.9 AZ
9900.85ft: Connection at 9905.5

9916.86ft: MUD VIS 55.00
9917.00ft: MUD WEIGHT 10.10
9917.13ft: MUD PH 9.10

9935.63ft: 1200 CFM PARA

9990.75ft: SURVEY 9941 1.4 INC 99.7 AZ
9990.75ft: Connection at 9996.4



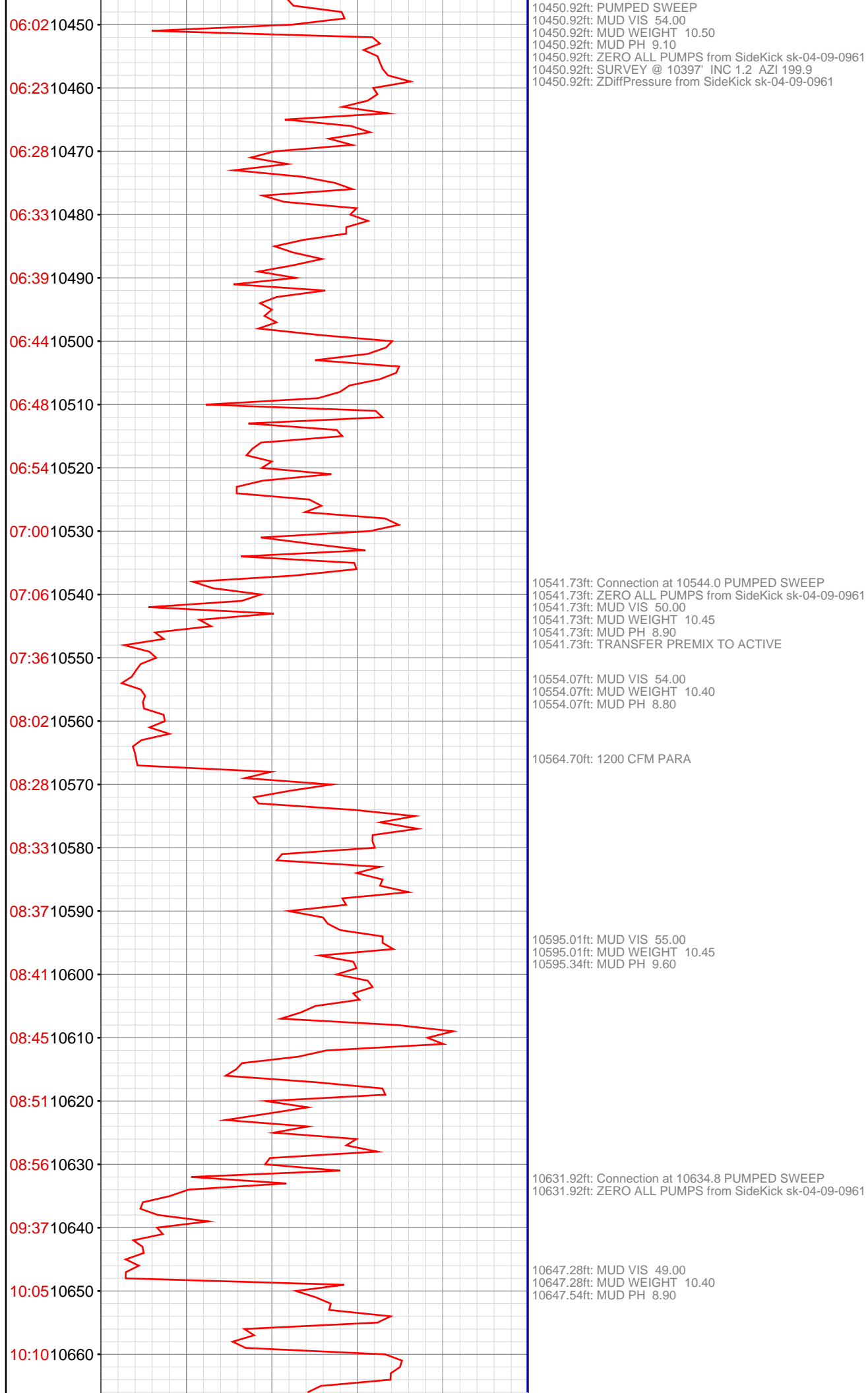


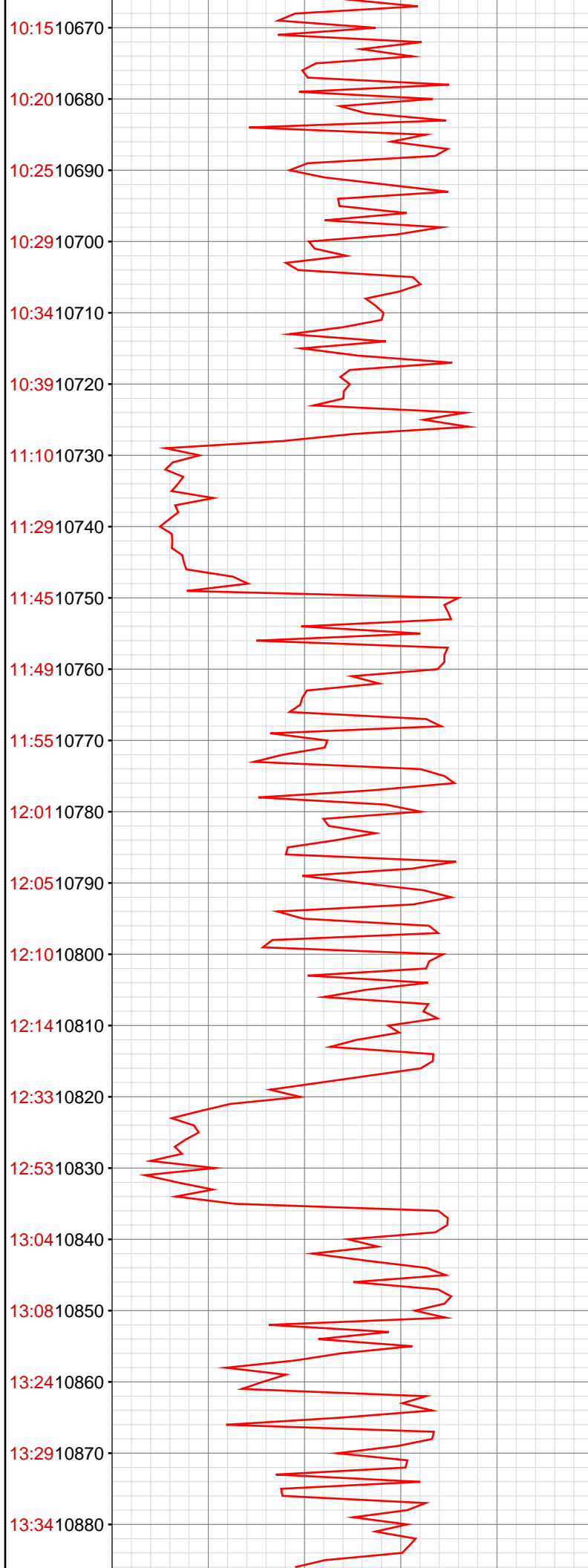
10263.62ft: SURVEY 10215 1.0 INC 177.4 AZ
10263.62ft: Connection at 10270.3
10267.00ft: ZERO ALL PUMPS from SideKick sk-04-09-0961

10348.79ft: 1200 CFM PARA
10354.99ft: MUD VIS 59.00
10355.71ft: MUD WEIGHT 10.40
10356.46ft: MUD PH 9.50
10360.17ft: SURVEY 10306 1.1 INC 193.2 AZ
10360.17ft: Connection at 10361.9
10360.17ft: ZERO ALL PUMPS from SideKick sk-04-09-0961

10436.09ft: 1200 CFM PARA

10450.92ft: Connection at 10452.9





10723.39ft: ZERO ALL PUMPS from SideKick sk-04-09-0961
10723.39ft: Connection at 10726.7
10723.39ft: PUMPED SWEEP
10723.39ft: SURVEY @ 10671' INC 0.8 AZI 248.8
10725.10ft: MUD VIS 57.00
10725.10ft: MUD WEIGHT 10.45
10725.59ft: MUD PH 9.40

10800.72ft: MUD VIS 49.00
10801.21ft: MUD PH 9.40
10802.13ft: MUD WEIGHT 10.45
10807.15ft: MUD WEIGHT 10.45

10818.50ft: Connection at 10818.0 PUMPED SWEEP
10818.50ft: ZERO ALL PUMPS from SideKick sk-04-09-0961
10818.50ft: SURVEY @ 10763' INC 0.3 AZI 353.9

10834.06ft: ZDiffPressure from SideKick sk-04-09-0961

10845.18ft: MUD VIS 50.00
10845.54ft: MUD PH 9.20
10846.42ft: MUD WEIGHT 10.40

13:39 10890

13:45 10900

14:09 10910

14:15 10920

14:20 10930

14:26 10940

14:32 10950

14:42 10960

14:48 10970

14:56 10980

15:01 10990

15:29 11000

16:09 11010

16:27 11020

16:35 11030

16:43 11040

16:49 11050

16:55 11060

17:09 11070

17:18 11080

17:28 11090

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10:34 11100

10906.20ft: 1200 CFM PARA
10908.69ft: Connection at 10908.9 PUMPED SWEEP
10908.69ft: ZERO ALL PUMPS from SideKick sk-04-09-0961
10908.69ft: SURVEY @ 10853' INC 1.3 AZI 315.5
10908.69ft: MUD VIS 50.00
10908.69ft: MUD WEIGHT 10.40
10908.69ft: MUD PH 9.10

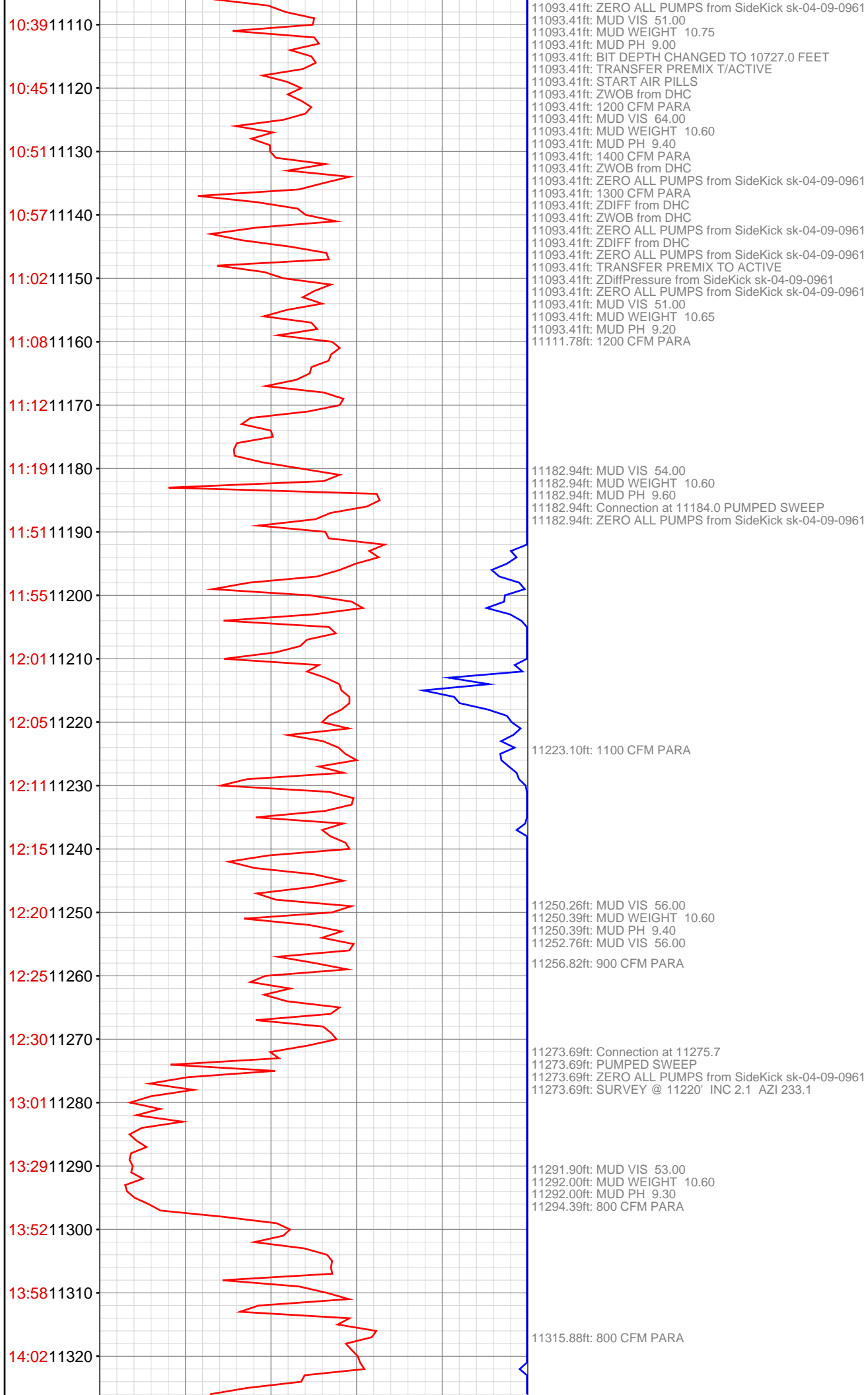
10987.01ft: MUD VIS 49.00
10987.01ft: MUD WEIGHT 10.50
10987.40ft: MUD PH 9.00

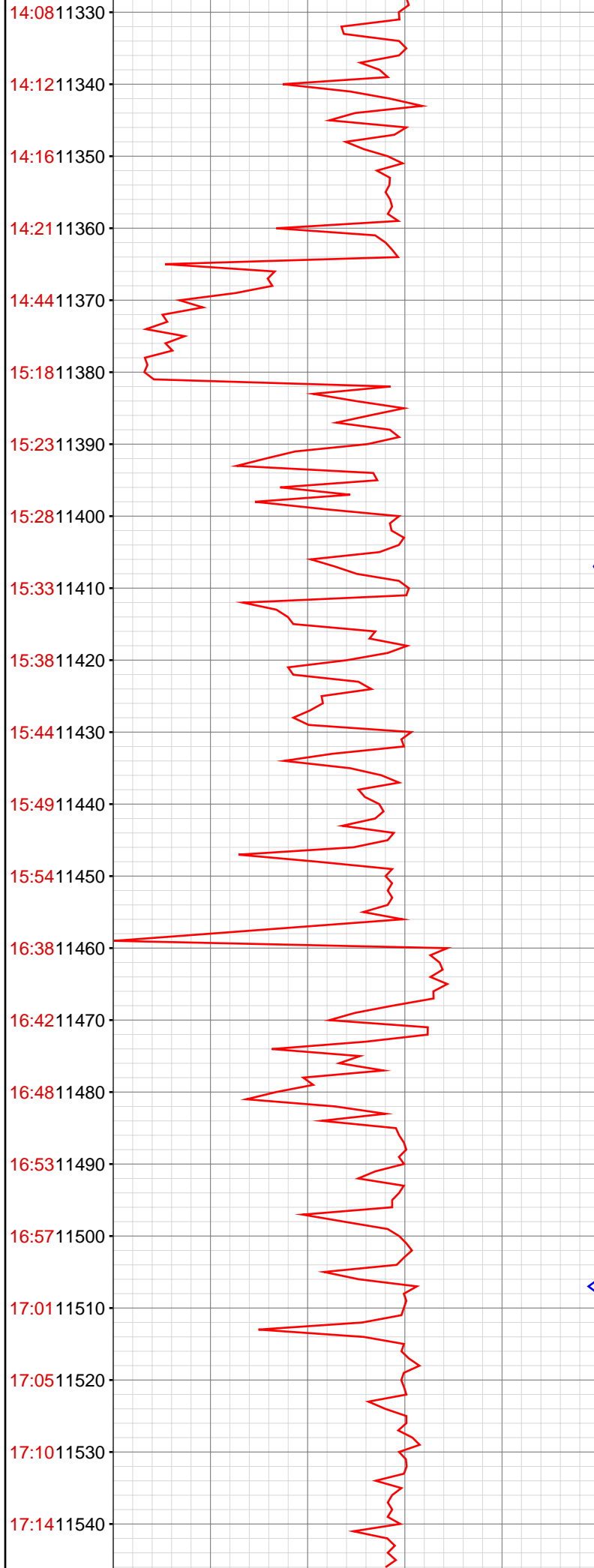
11000.00ft: Connection at 11000.5 PUMPED SWEEP
11000.00ft: ZERO ALL PUMPS from SideKick sk-04-09-0961
11000.00ft: SURVEY @ 10945' INC 1.7 AZI 292.5

11010.86ft: MUD VIS 57.00
11010.86ft: MUD WEIGHT 10.50
11011.12ft: MUD PH 9.60

11019.03ft: ZDiffPressure from SideKick sk-04-09-0961
11019.03ft: ZDiffPressure from SideKick sk-04-09-0961
11020.01ft: 1200 CFM PARA

11072.41ft: MUD VIS 48.00
11072.90ft: MUD WEIGHT 10.55
11073.00ft: MUD PH 9.00
11088.94ft: RIG SERVICE
11091.04ft: ZERO ALL PUMPS from SideKick sk-04-09-0961
11091.04ft: Connection at 11092.1 PUMPED SWEEP SURVEY @ 11037'
INC 1.1 AZI 259.7
11093.41ft: TRANSFERRED 375.00
11093.41ft: 900 CFM PARA
11093.41ft: TRANSFERRED 50.00
11093.41ft: AIR BYPASSED
11093.41ft: MUD VIS 54.00
11093.41ft: MUD WEIGHT 10.75
11093.41ft: MUD PH 9.20
11093.41ft: PULL ROT RUBBER
11093.41ft: MUD VIS 55.00
11093.41ft: MUD WEIGHT 10.75
11093.41ft: MUD PH 9.50
11093.41ft: FILL PIPE
11093.41ft: SLIP AND CUT DRLG LINE
11093.41ft: BIT DEPTH CHANGED TO 3037.0 FEET
11093.41ft: MUD VIS 53.00
11093.41ft: MUD WEIGHT 10.75
11093.41ft: MUD PH 8.70



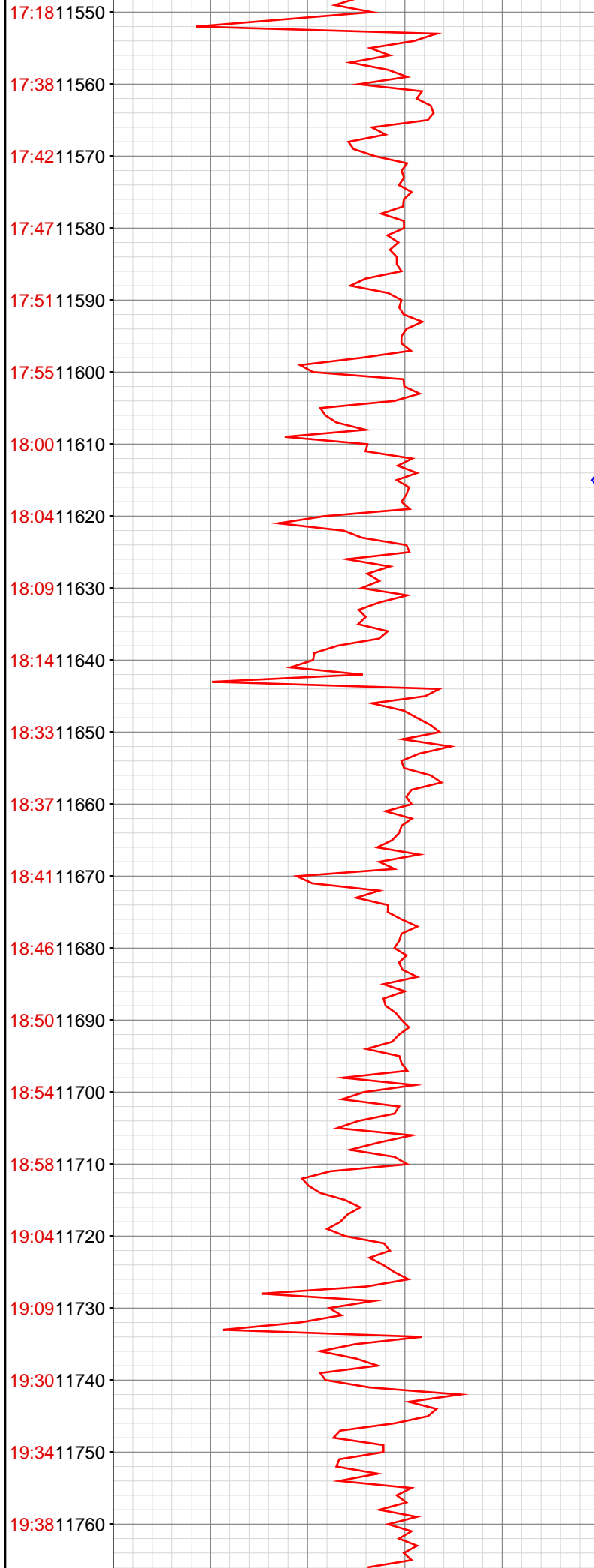


11364.80ft: Connection at 11367.4 PUMPED SWEEP
11364.80ft: ZERO ALL PUMPS from SideKick sk-04-09-0961
11364.80ft: SURVEY @ 11312' INC 1.9 AZI 253.1
11370.24ft: MUD VIS 48.00
11370.37ft: MUD WEIGHT 10.60
11370.37ft: MUD PH 9.30

11380.61ft: ZDIFF from DHC

11456.23ft: RIG SERVICE
11456.23ft: MUD VIS 52.00
11456.23ft: MUD WEIGHT 10.60
11456.23ft: MUD PH 9.60
11456.23ft: ZERO ALL PUMPS from SideKick sk-04-09-0961
11456.23ft: SURVEY @ 11403' INC 1.9 AZI 244.9
11456.23ft: Connection at 11459.2 PUMPED SWEEP

11515.22ft: MUD VIS 47.00
11515.72ft: MUD WEIGHT 10.60
11515.95ft: MUD PH 9.30



11551.54ft: ZERO ALL PUMPS from SideKick sk-04-09-0961
11551.54ft: Connection at 11550.8 PUMPED SWEEP
11551.54ft: SURVEY @ 11495' INC 1.9 AZI 246.1

11582.32ft: 800 CFM PARA

11617.16ft: MUD VIS 52.00
11618.87ft: MUD WEIGHT 10.60
11619.62ft: MUD PH 9.30

11642.59ft: Connection at 11642.1 SURVEY 11586 2.6 INC 243.3 AZ

11732.78ft: MUD VIS 49.00
11732.78ft: MUD WEIGHT 10.60
11732.78ft: MUD PH 9.40
11732.78ft: Connection at 11733.6

