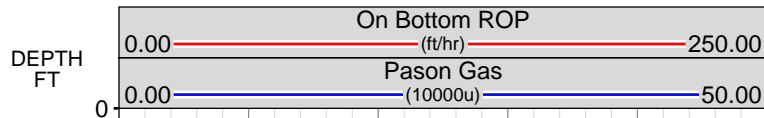


OPERATOR: EnCana Oil & Gas (USA), Inc.
WELL: BENZEL 35-2HM F25NWA
FIELD:
LOCATION: SE NW SEC 25 T6S R93W
COUNTRY: USA
RIG: Pat-UTI 326

CONTRACTOR: Patterson-UTI Drilling Company
UNIQUE WELL ID: 058-045-20779
SPUD DATE: Aug 22, 2011 13:30
RELEASE DATE: Oct 23, 2011 06:00



MEMOS

10
110
120
130
140
150
200
270
280
290
300
310
320
330

125.00ft: ZWOB from SideKick sk-04-09-0961

136.00ft: DEPTH RECALIBRATED TO 0.0736000016
139.00ft: 021TGAS 03050225 SW0.30 HW31.00 - 9 days on
139.00ft: 003TGAS-Manual flush
139.00ft: 002TGAS-Manual zero
139.25ft: SM W/ HALLIBURTON

153.00ft: HOLE DEPTH CHANGED TO 201.1 FEET

201.10ft: SET COM
205.00ft: MUD WEIGHT 8.60
205.00ft: MUD PH 8.70
205.00ft: MUD WEIGHT 8.60
205.00ft: MUD PH 9.00
205.13ft: MUD VIS 58.00
205.71ft: MUD VIS 58.00
206.00ft: IN TALLY: HOLE DEPTH SET TO 206.0
207.00ft: HOLE DEPTH CHANGED TO 298.0 FEET
207.00ft: BIT DEPTH CHANGED TO 298.0 FEET

287.00ft: MUD VIS 55.00
287.00ft: MUD WEIGHT 8.60
287.00ft: MUD PH 9.00

298.00ft: Connection at 236.6
298.00ft: SURVEY @ 145, INC 0.12, AZM 187.65

314.00ft: MUD VIS 55.00
315.00ft: MUD WEIGHT 8.60
315.00ft: MUD PH 8.90
317.58ft: PUMP SWEEP
318.00ft: MUD WEIGHT 8.60
318.00ft: MUD PH 9.00
318.76ft: MUD VIS 56.00
325.00ft: Connection at 328.7
325.00ft: HGAS_031: Hazardous Gas Alarm System not approved in billing system
325.00ft: BIT DEPTH CHANGED TO 359.4 FEET
326.00ft: HOLE DEPTH CHANGED TO 267.0 FEET

340
350
360
370
380
390
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410
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490
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520
530
540
550

366.00ft: MUD VIS 60.00
366.00ft: MUD WEIGHT 8.60
367.00ft: MUD PH 8.80
368.82ft: PUMP SWEEP

414.90ft: VIS 62 WT 9.6 PH 8.9
419.00ft: ZDiffPressure from SideKick sk-04-09-0961
419.00ft: BIT DEPTH CHANGED TO 420.9 FEET
419.02ft: Connection at 420.9
423.25ft: PUMP SWEEP

478.00ft: MUD VIS 62.00
478.00ft: MUD WEIGHT 8.65
478.00ft: MUD PH 8.80
481.11ft: PUMP SWEEP

509.00ft: ZDiffPressure from SideKick sk-04-09-0961
509.00ft: ZWOB from SideKick sk-04-09-0961
509.00ft: BIT DEPTH CHANGED TO 511.0 FEET
509.51ft: SURVEY @ 422, INC 0.32, AZM 152.30
509.51ft: SURVEY CORRECTION: @ 422, INC 0.52, AZM 126.70

560
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660
670
680
690
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710
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730
740
750
760
770

595.05ft: PUMPED SWEEP

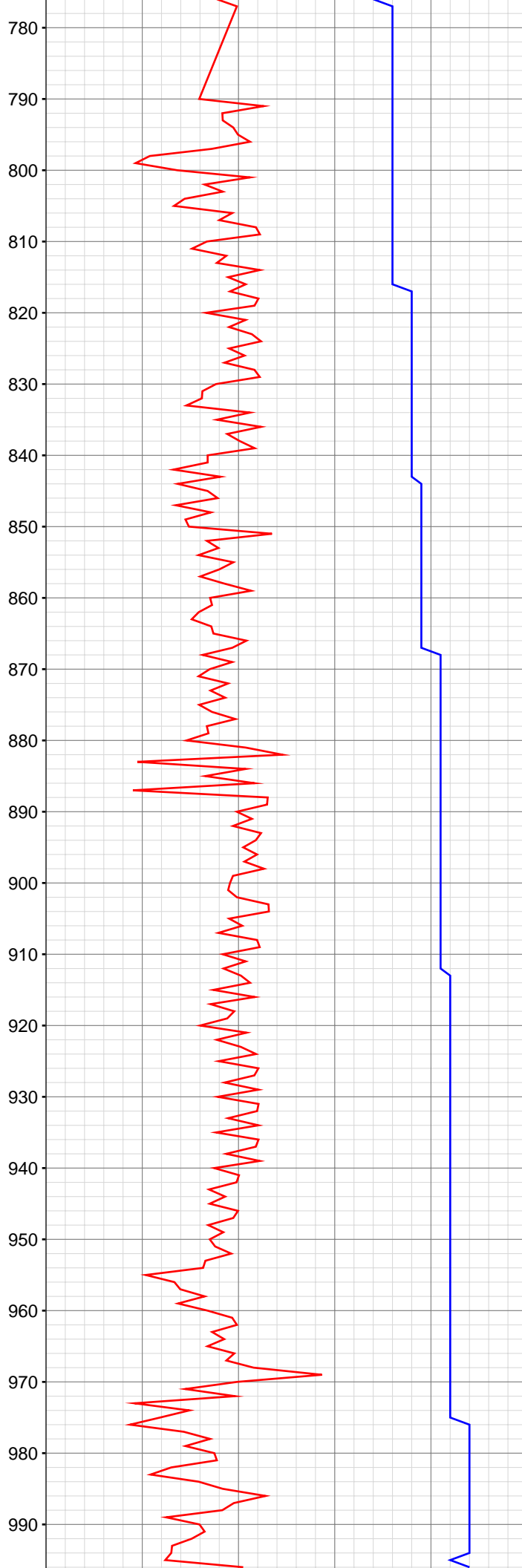
602.26ft: SURVEY @ 514, INC 0.72, AZM 108.48
602.26ft: Connection at 605.2

679.47ft: PUMPED SWEEP

690.36ft: SURVEY @ 606, INC 1.02, AZM 108.15
690.36ft: Connection at 697.4

761.17ft: PUMPED SWEEP

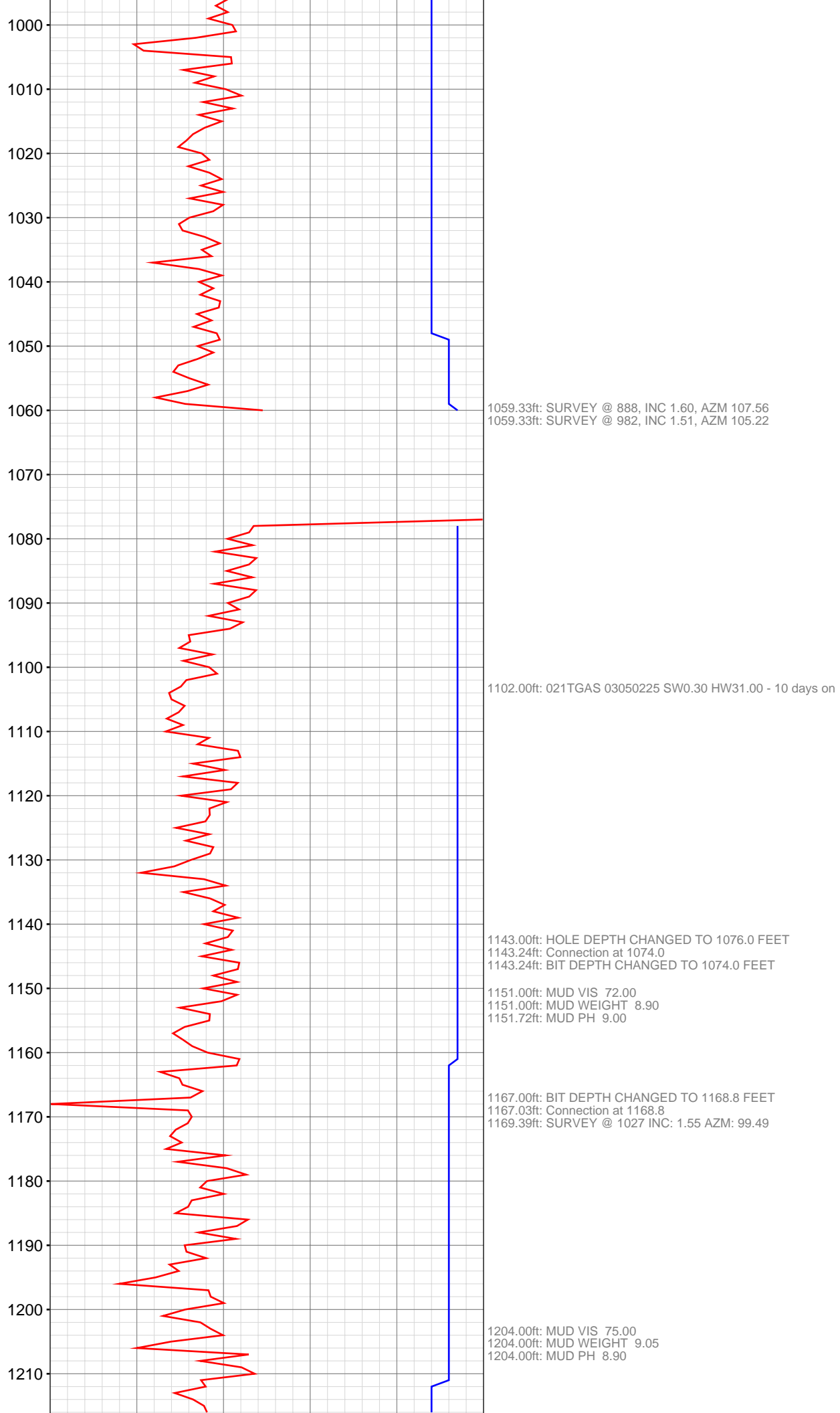
775.00ft: SURVEY @ 606, INC 1.02, AZM 108.15



777.00ft: BIT DEPTH CHANGED TO 789.0 FEET
777.65ft: SURVEY @ 698, INC 1.40, AZM 106.22
777.65ft: Connection at 789.6

882.03ft: SURVEY @ 793, INC 1.47, AZM 105.09
882.03ft: Connection at 884.3

975.87ft: Connection at 979.1
976.00ft: MUD VIS 64.00
976.00ft: MUD WEIGHT 9.05
976.61ft: MUD PH 9.00



1220
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1420
1430

1260.00ft: ZWOB from SideKick sk-04-09-0961
1260.00ft: ZDiffPressure from SideKick sk-04-09-0961
1260.07ft: Connection at 1263.5

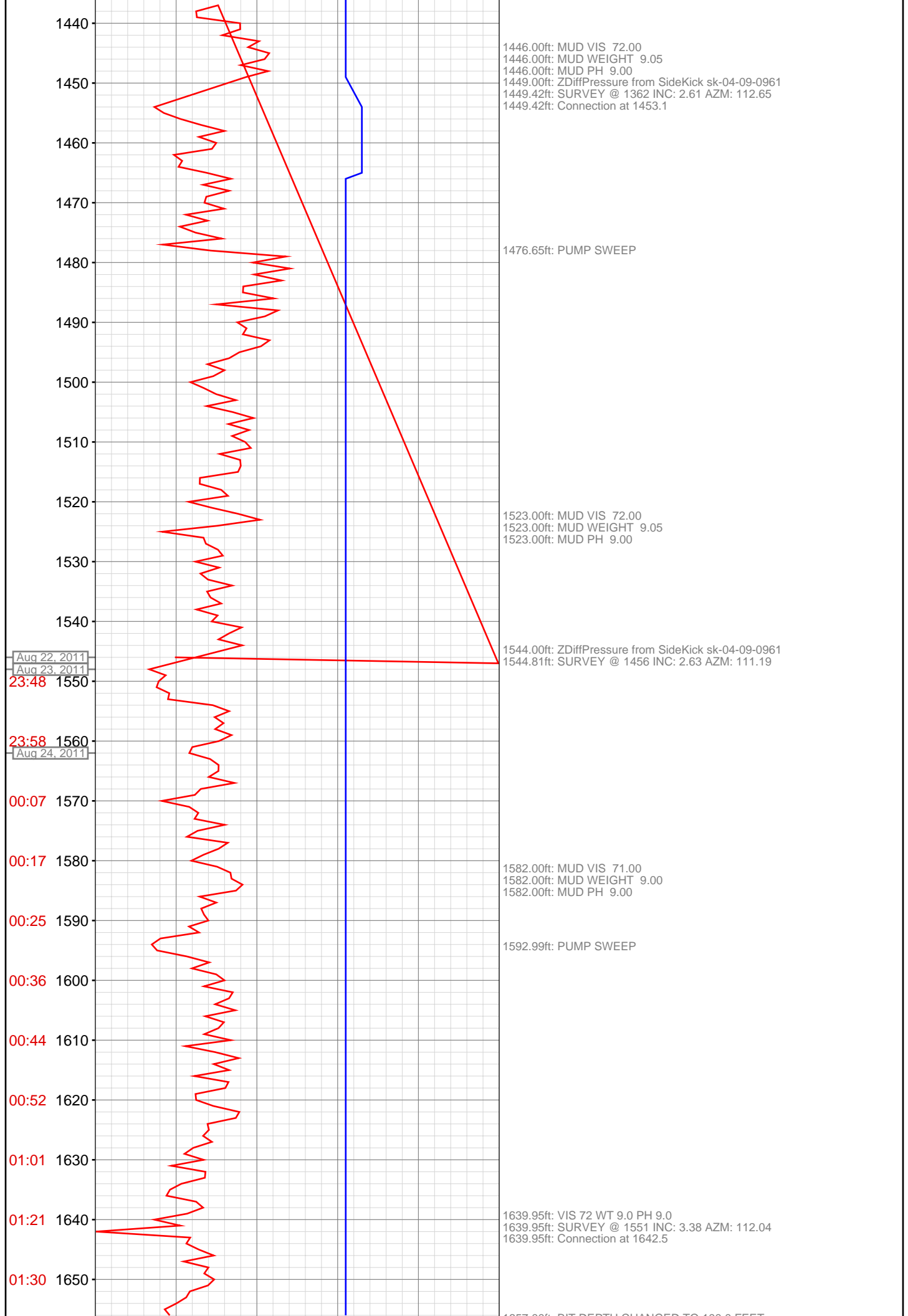
1272.92ft: SURVEY @ 1172 INC: 1.88 AZM: 103.62

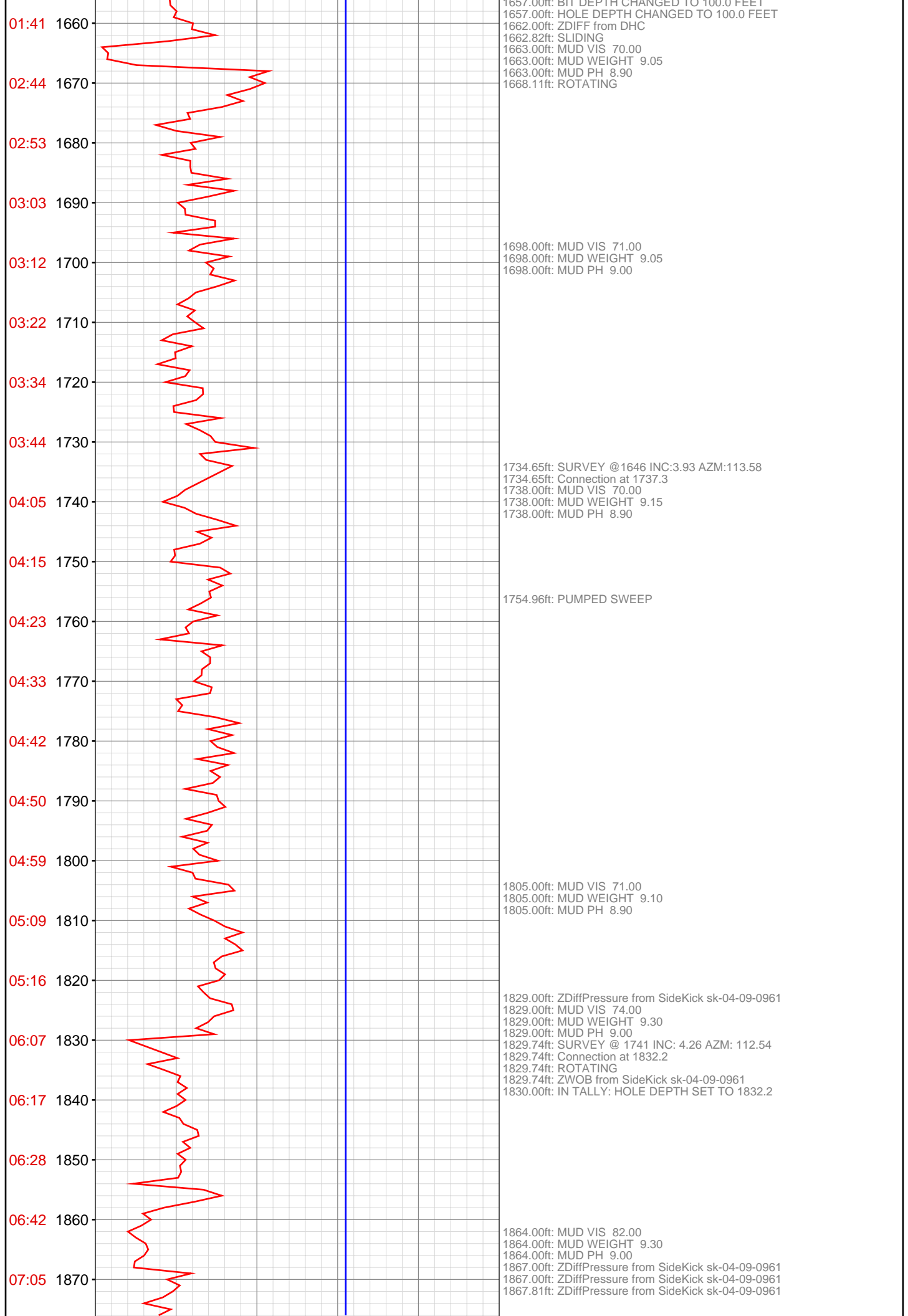
1282.00ft: MUD VIS 74.00
1282.00ft: MUD WEIGHT 9.10
1282.00ft: MUD PH 8.80

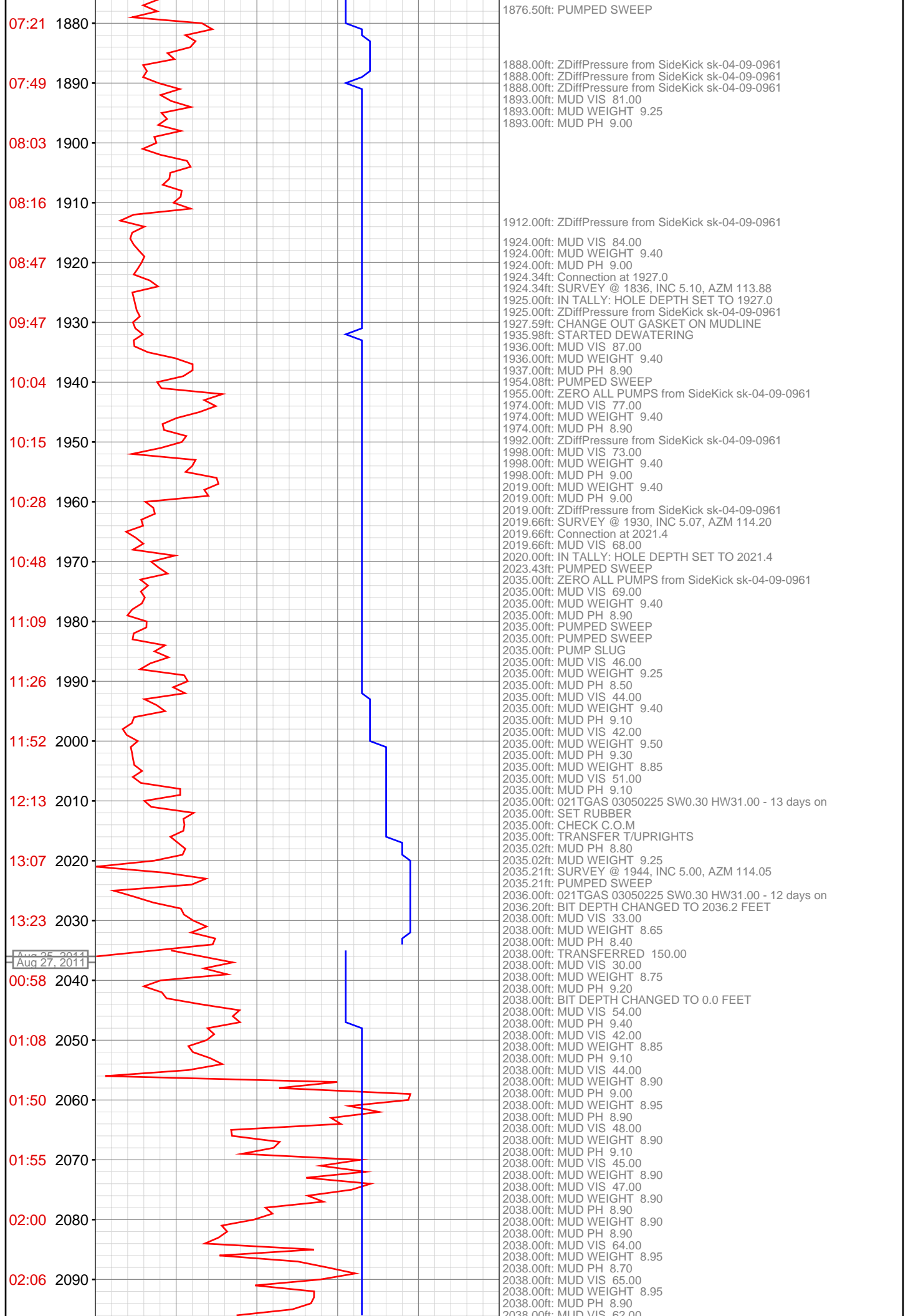
1316.78ft: PUMP SWEEP

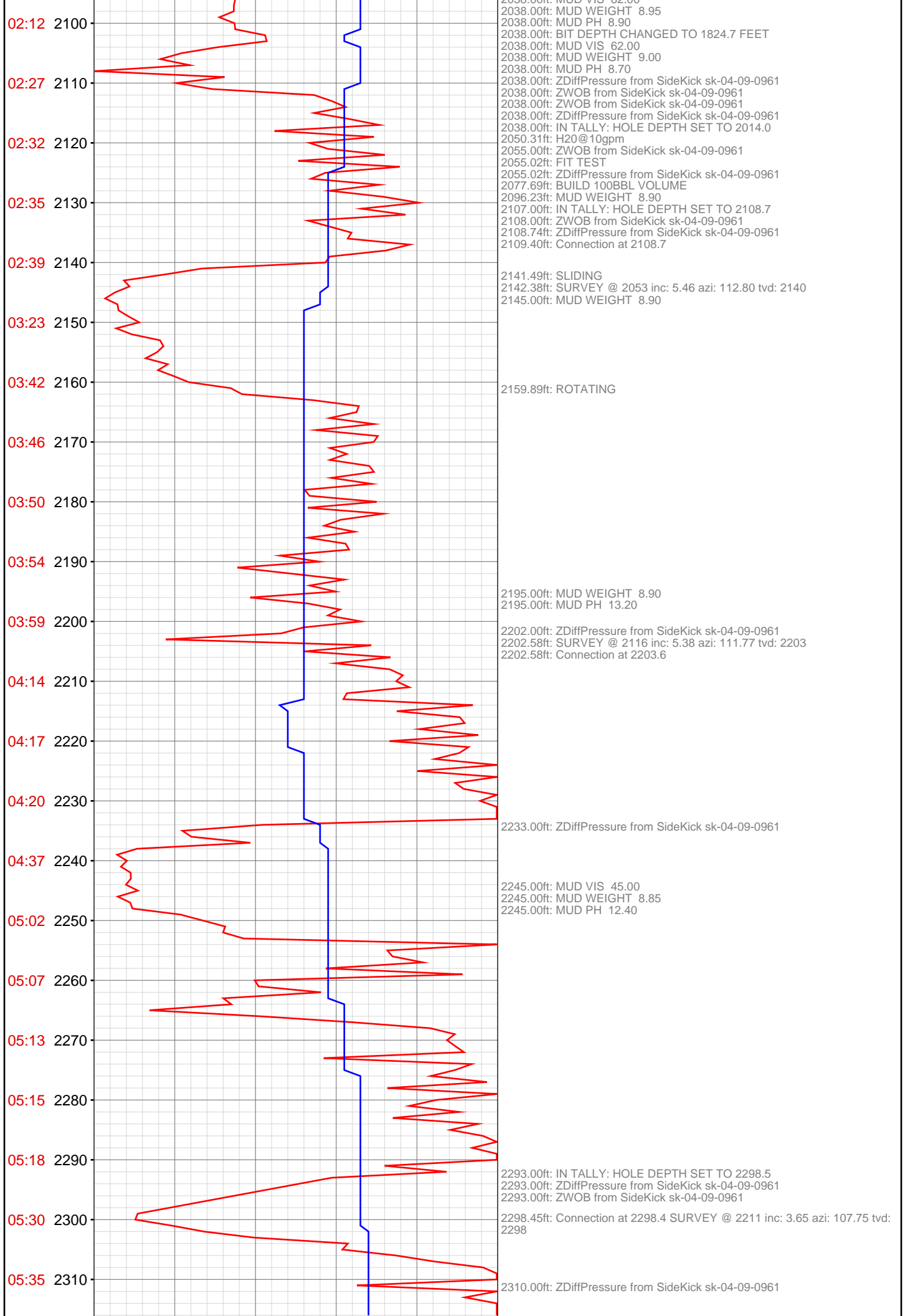
1355.00ft: ZDiffPressure from SideKick sk-04-09-0961
1355.00ft: BIT DEPTH CHANGED TO 1358.3 FEET
1355.43ft: SURVEY @1267 INC: 2.29 AZM: 106.86
1355.43ft: Connection at 1358.3

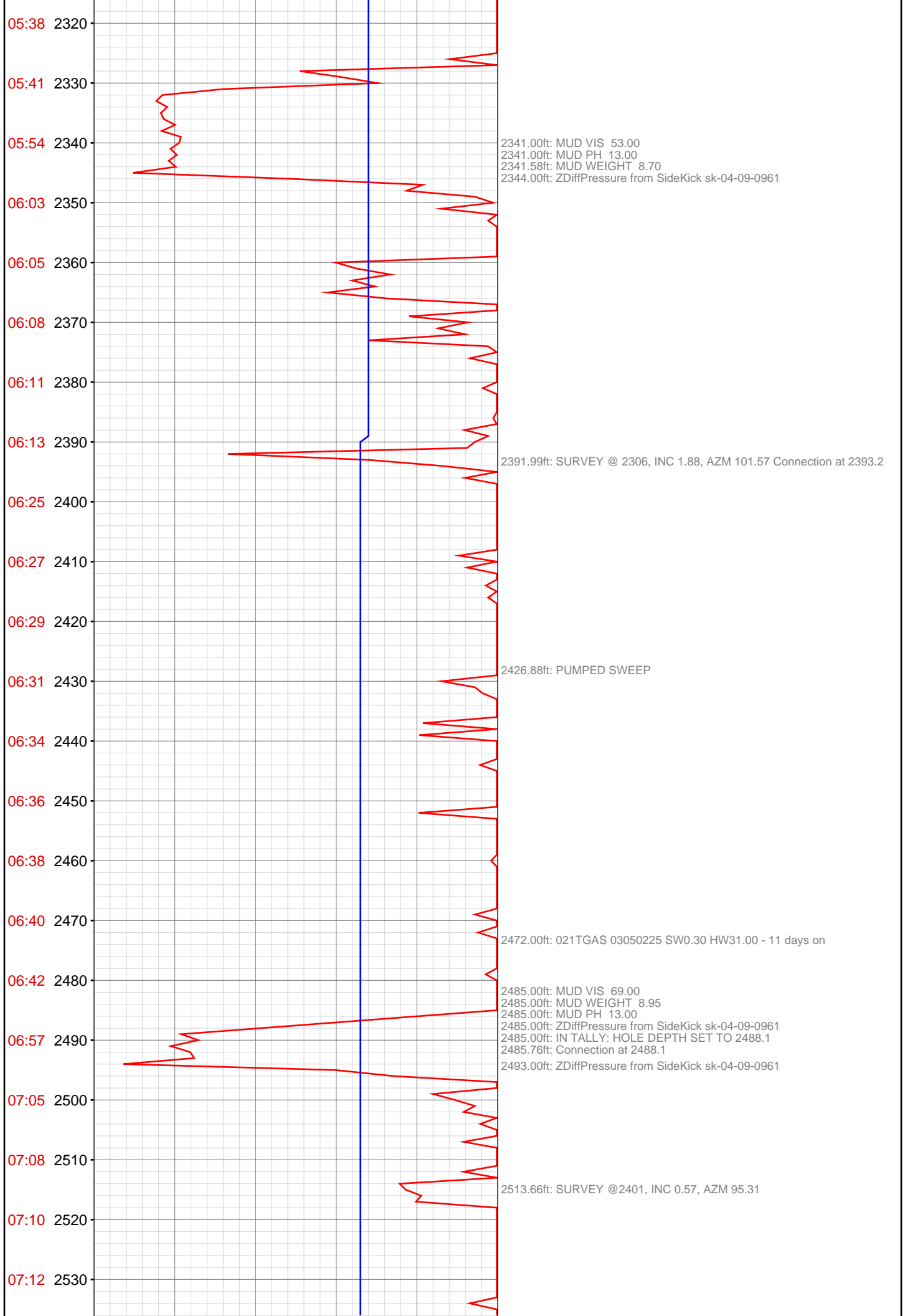
1391.00ft: MUD VIS 70.00
1391.00ft: MUD PH 9.00
1391.72ft: MUD WEIGHT 9.05

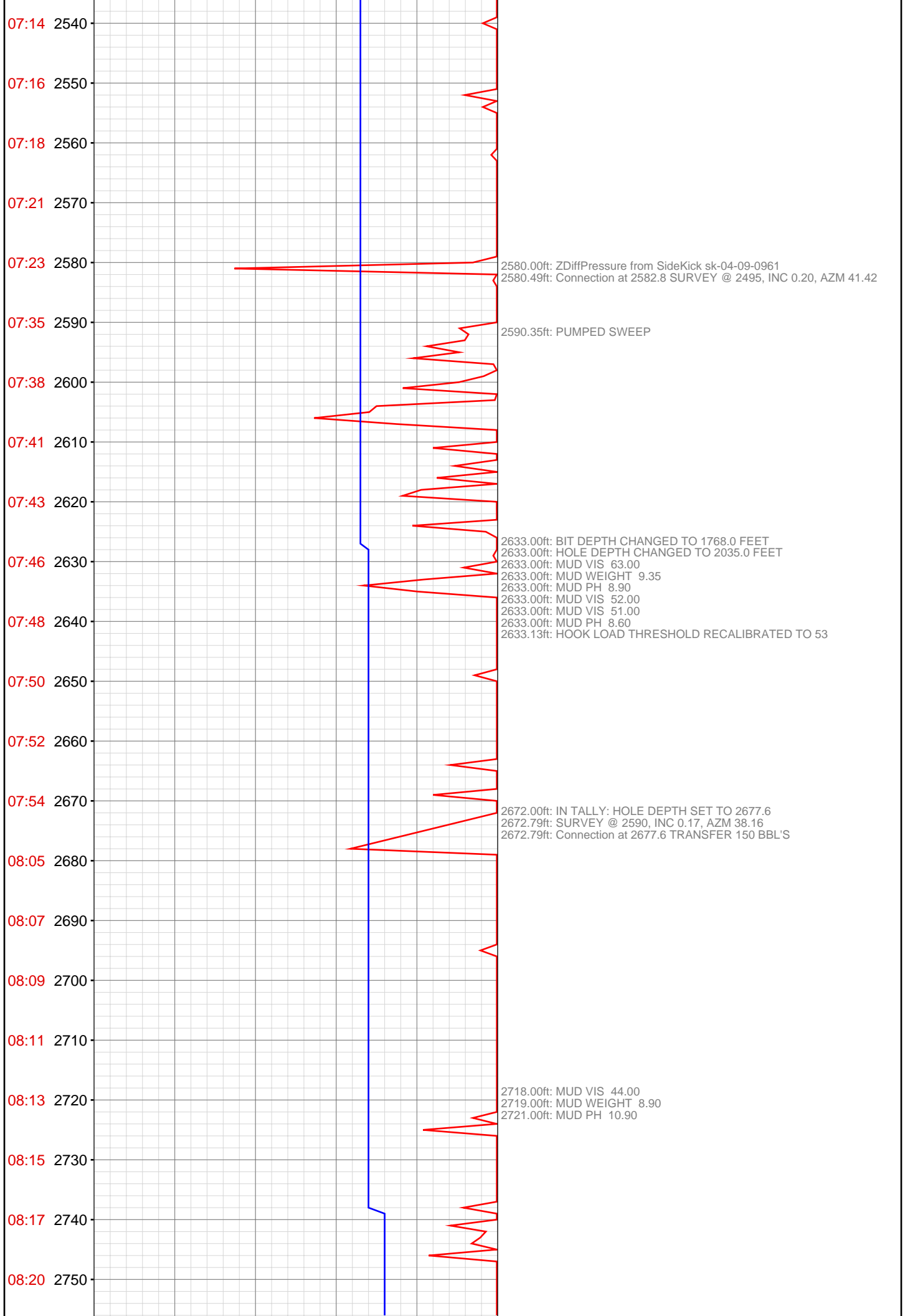


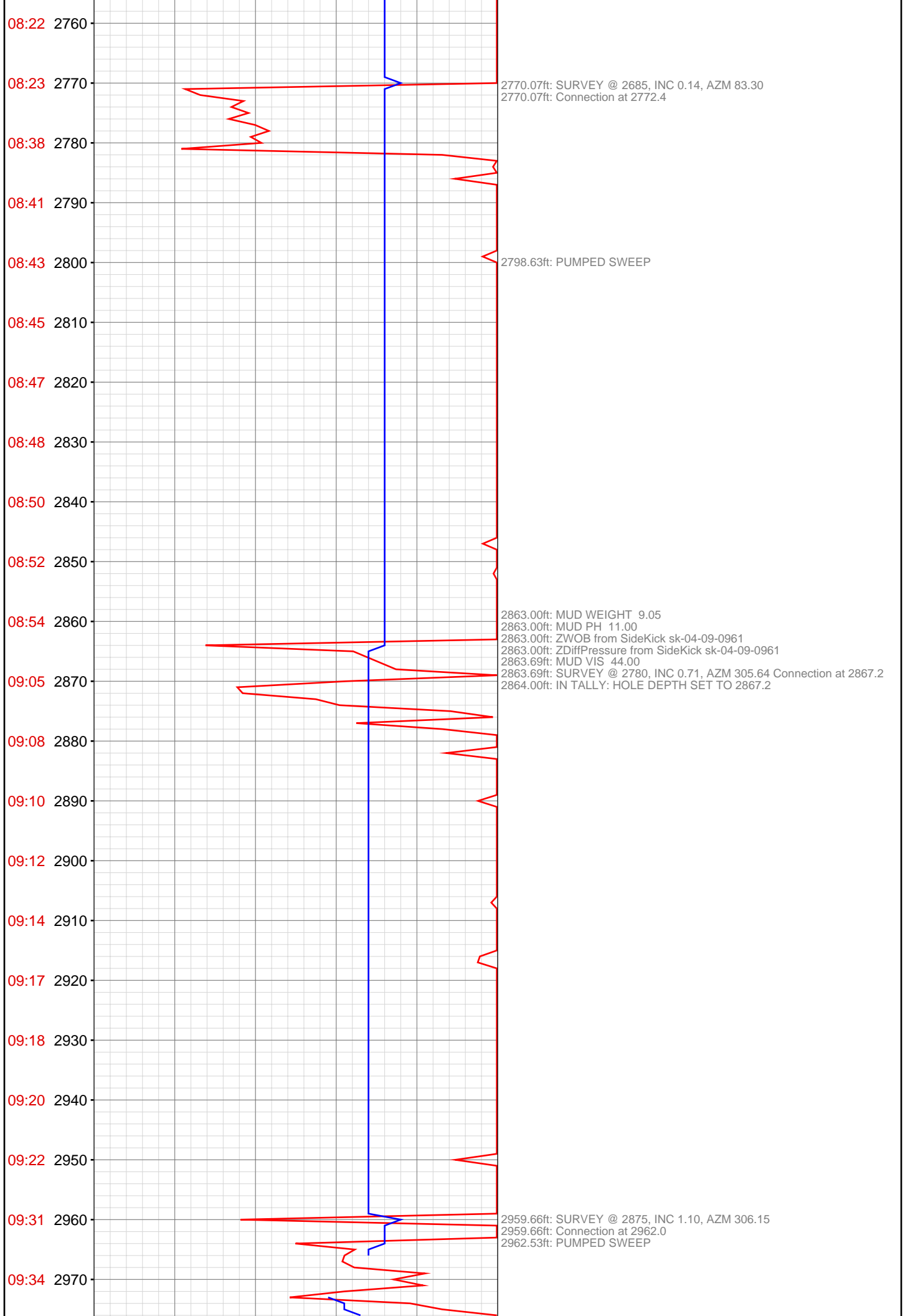


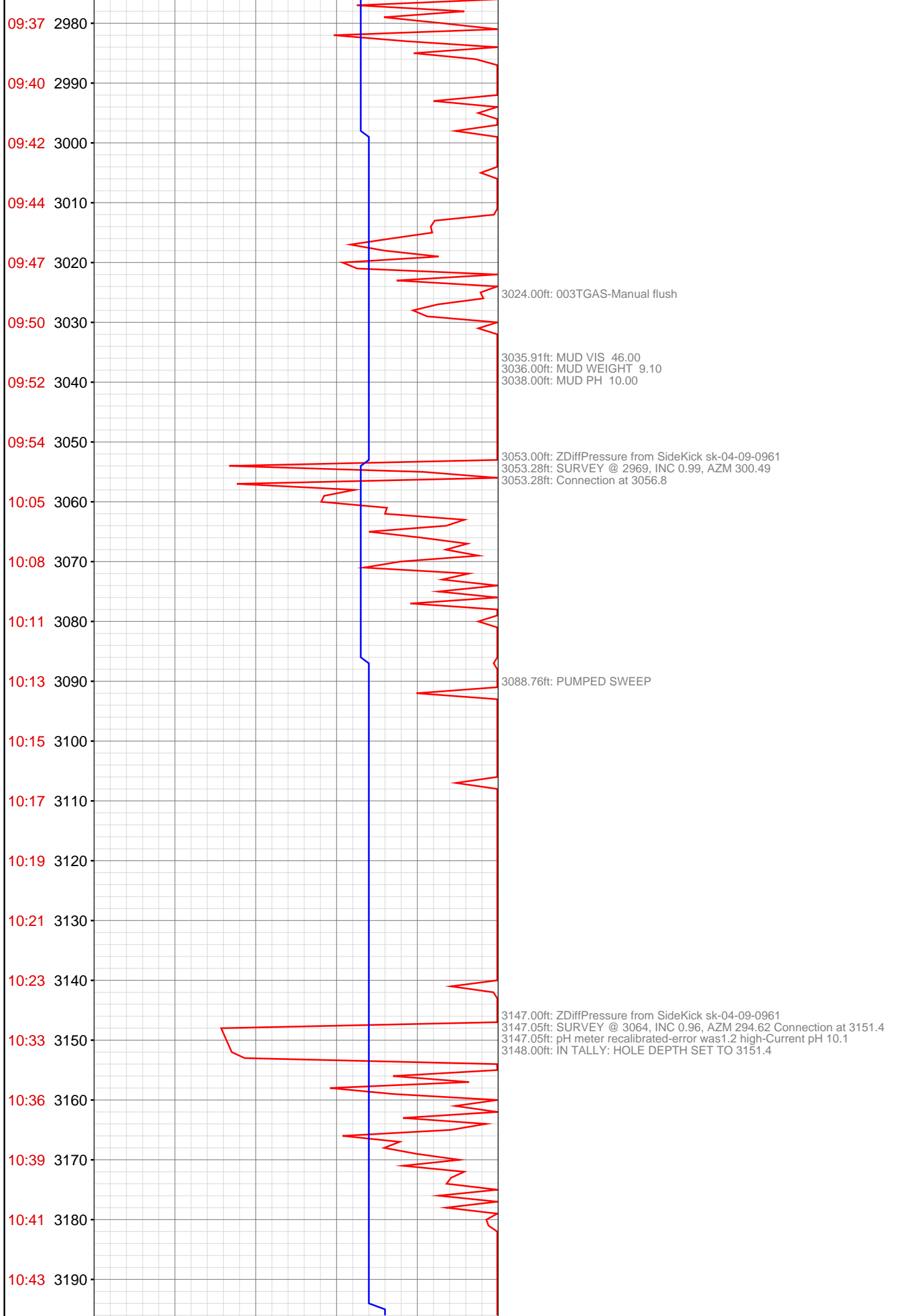


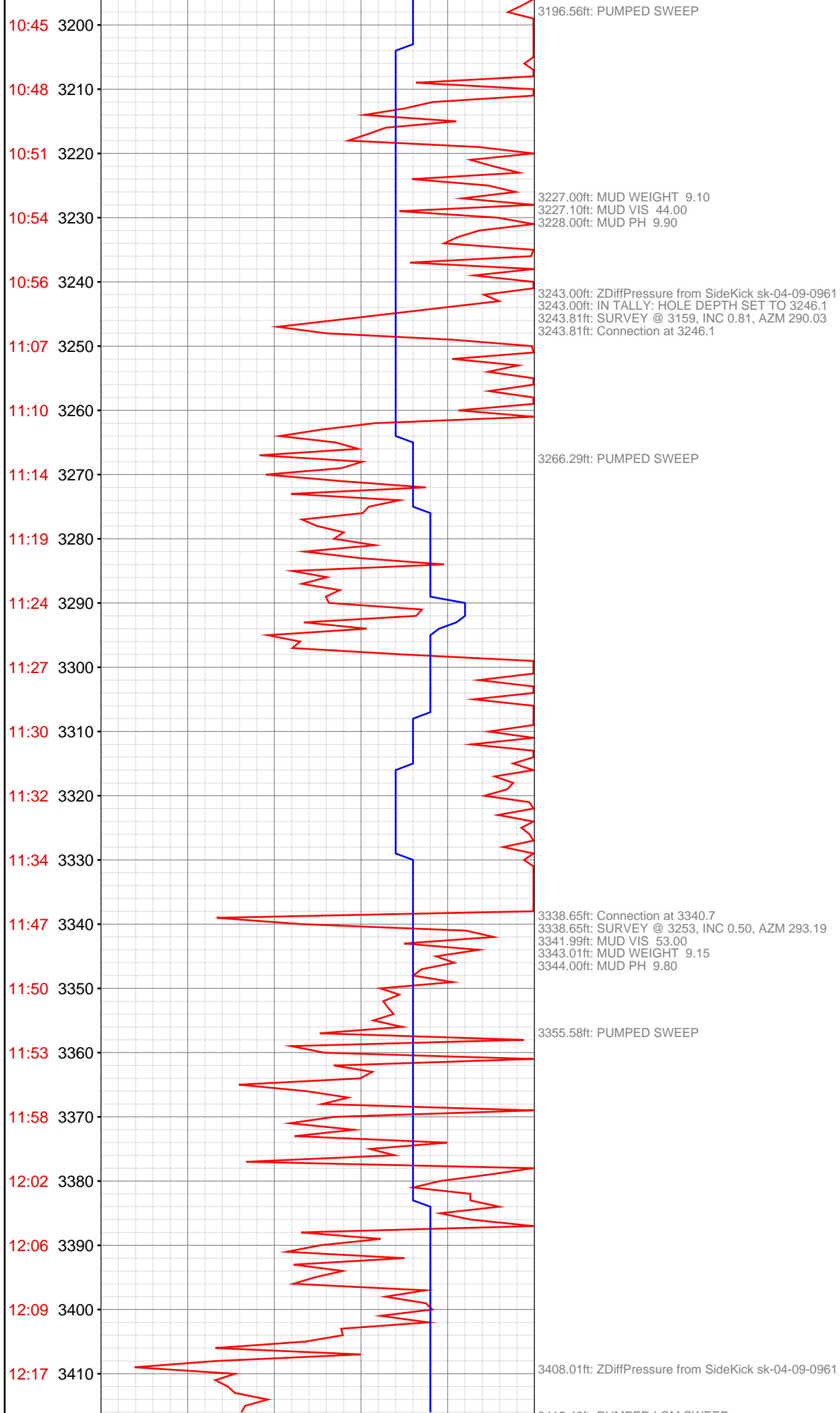


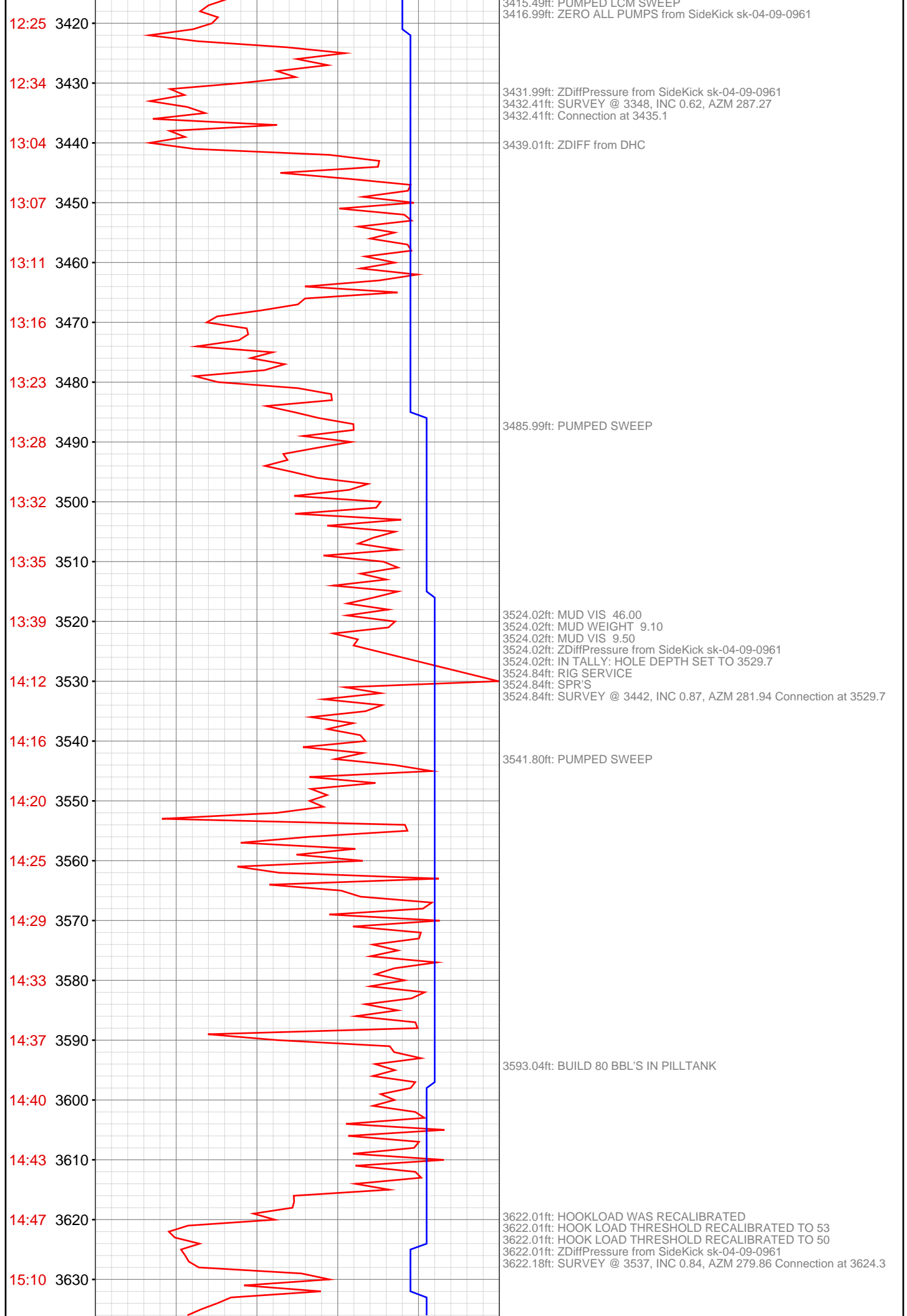


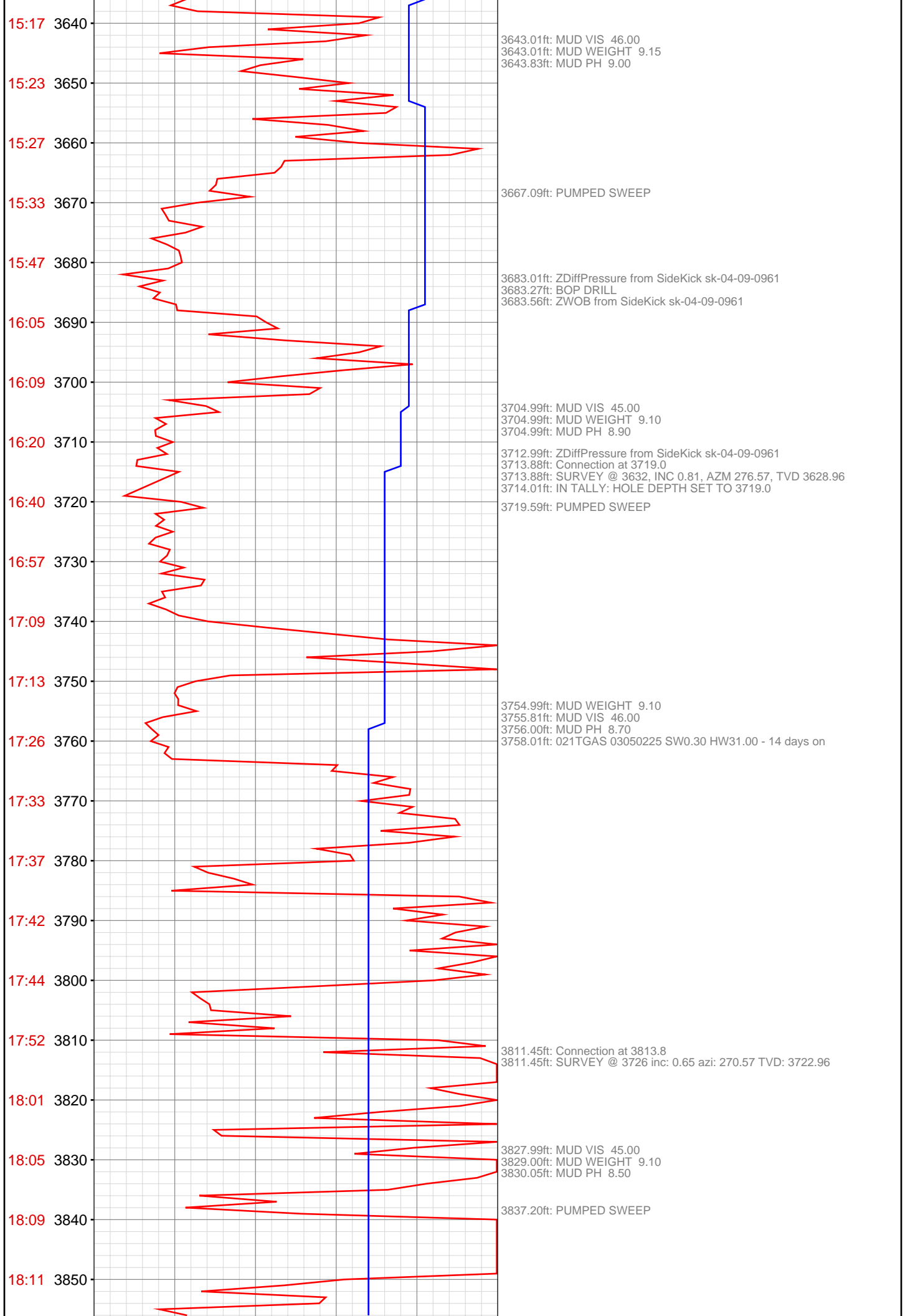


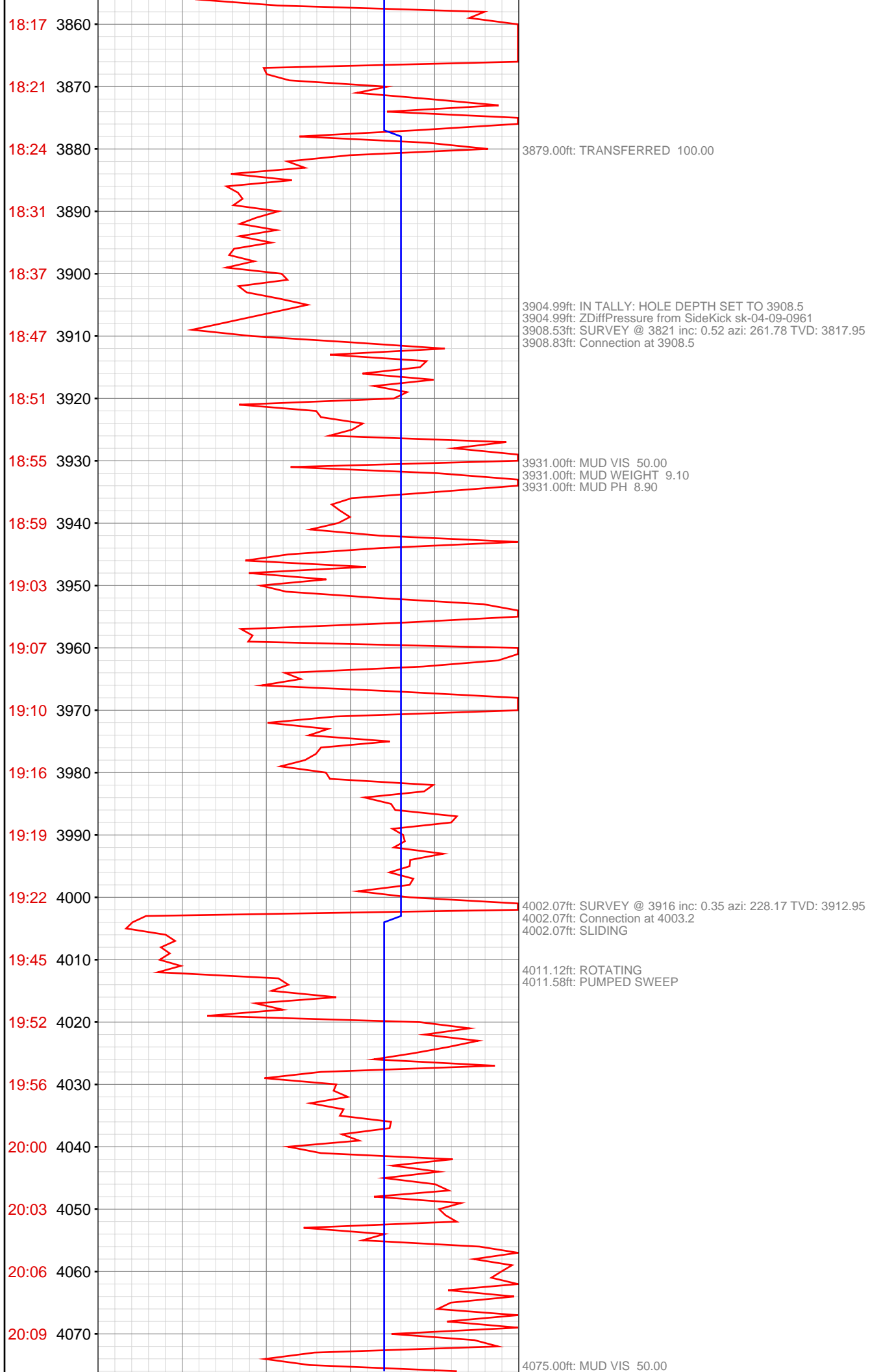


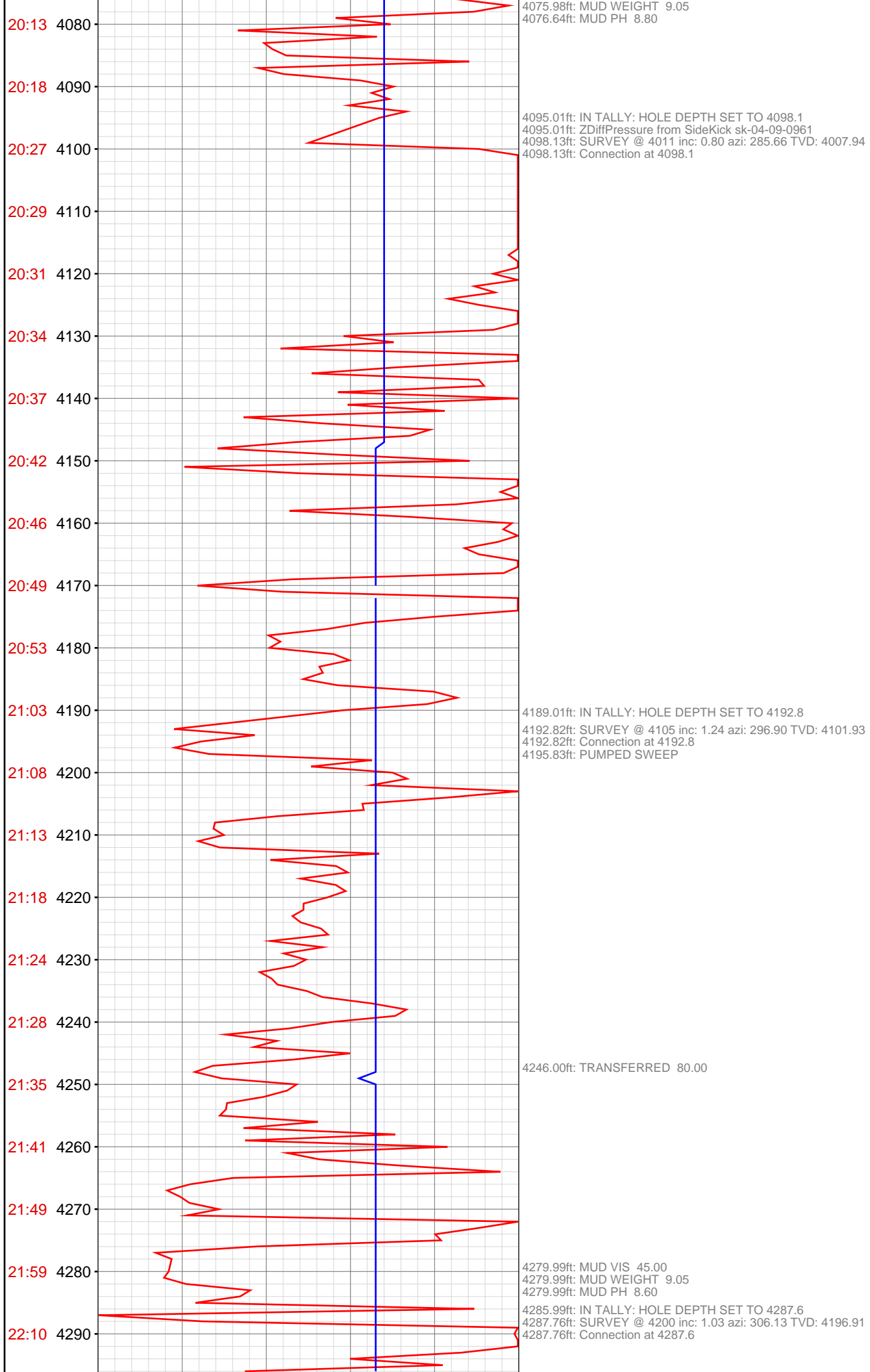


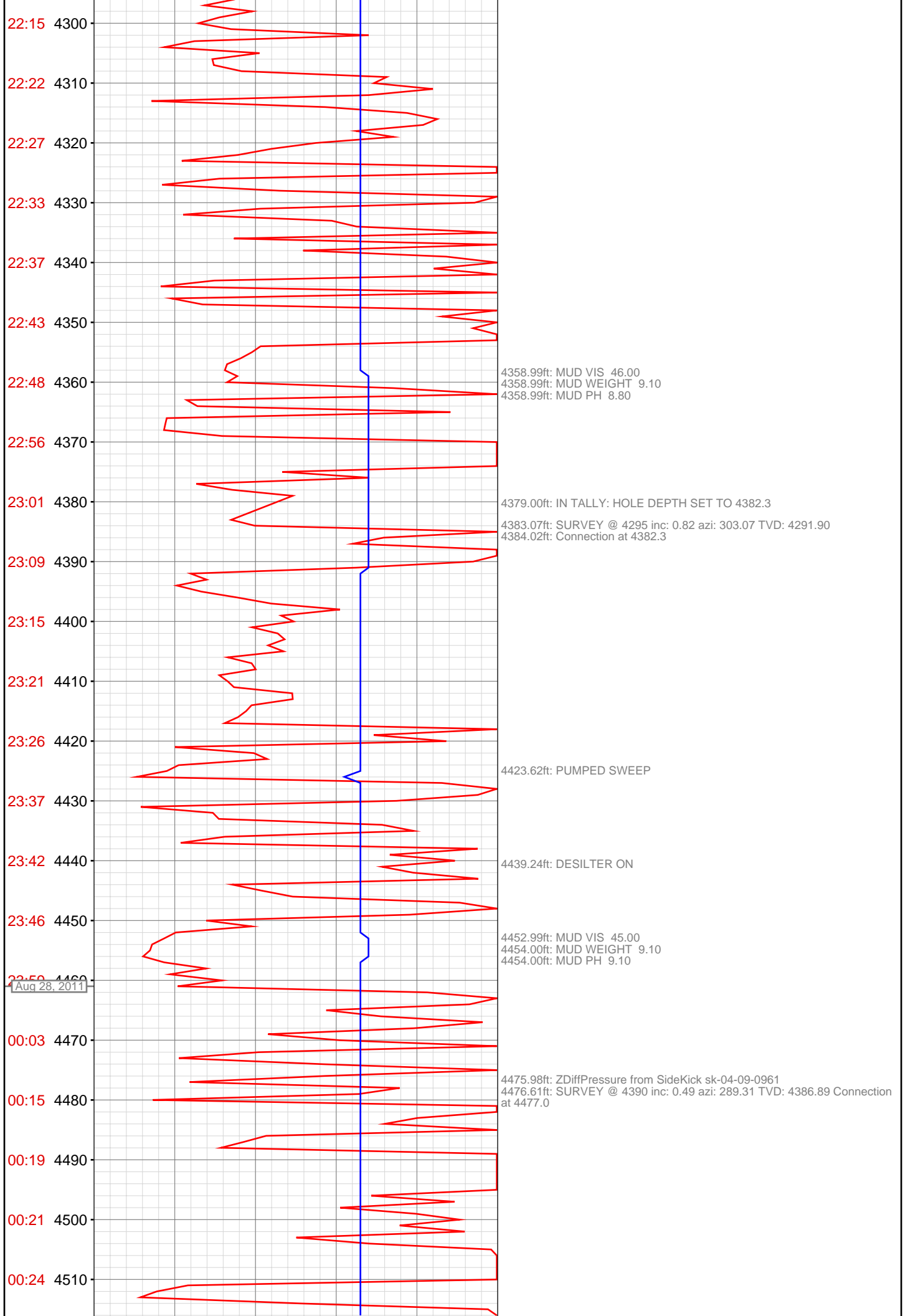


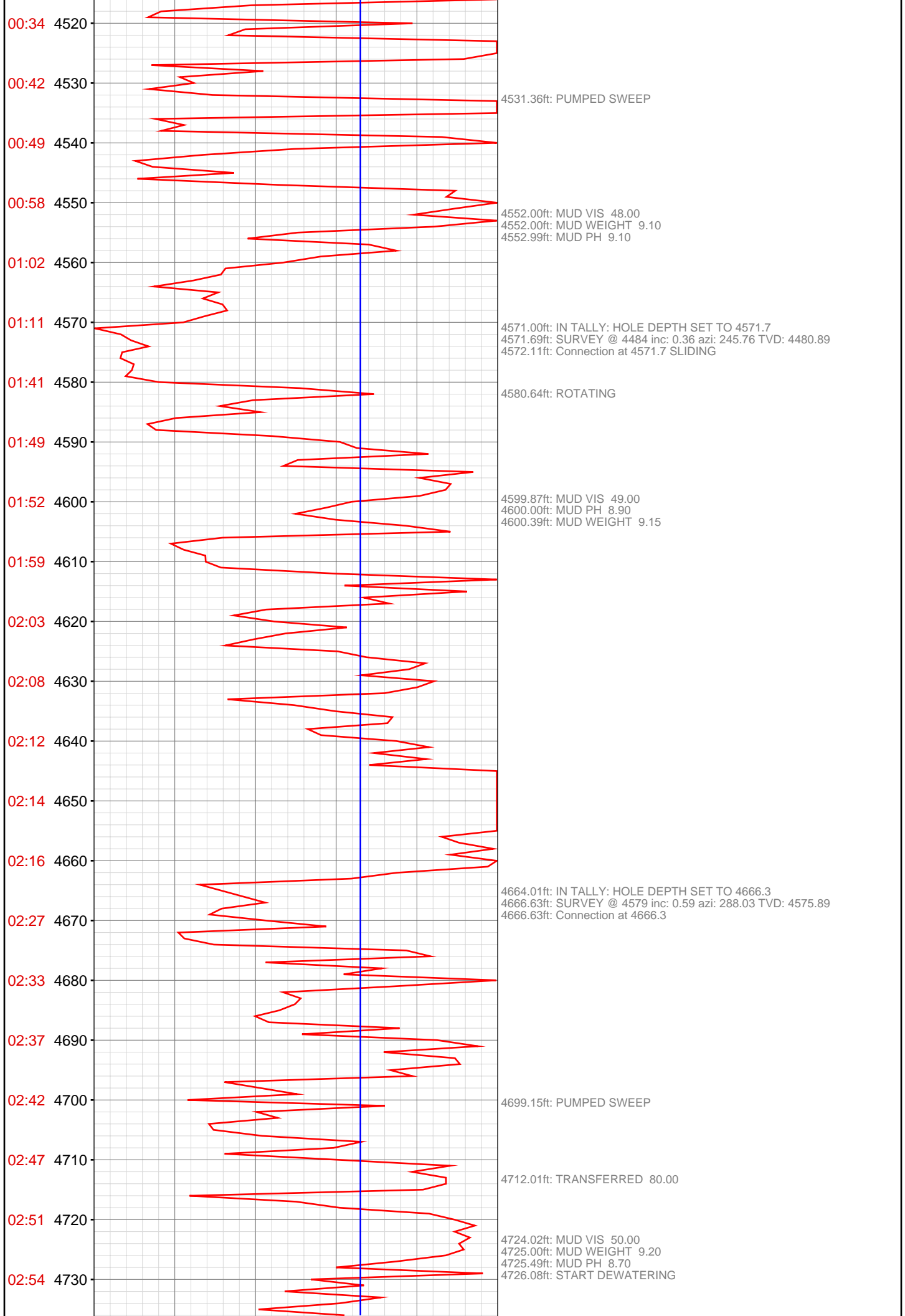


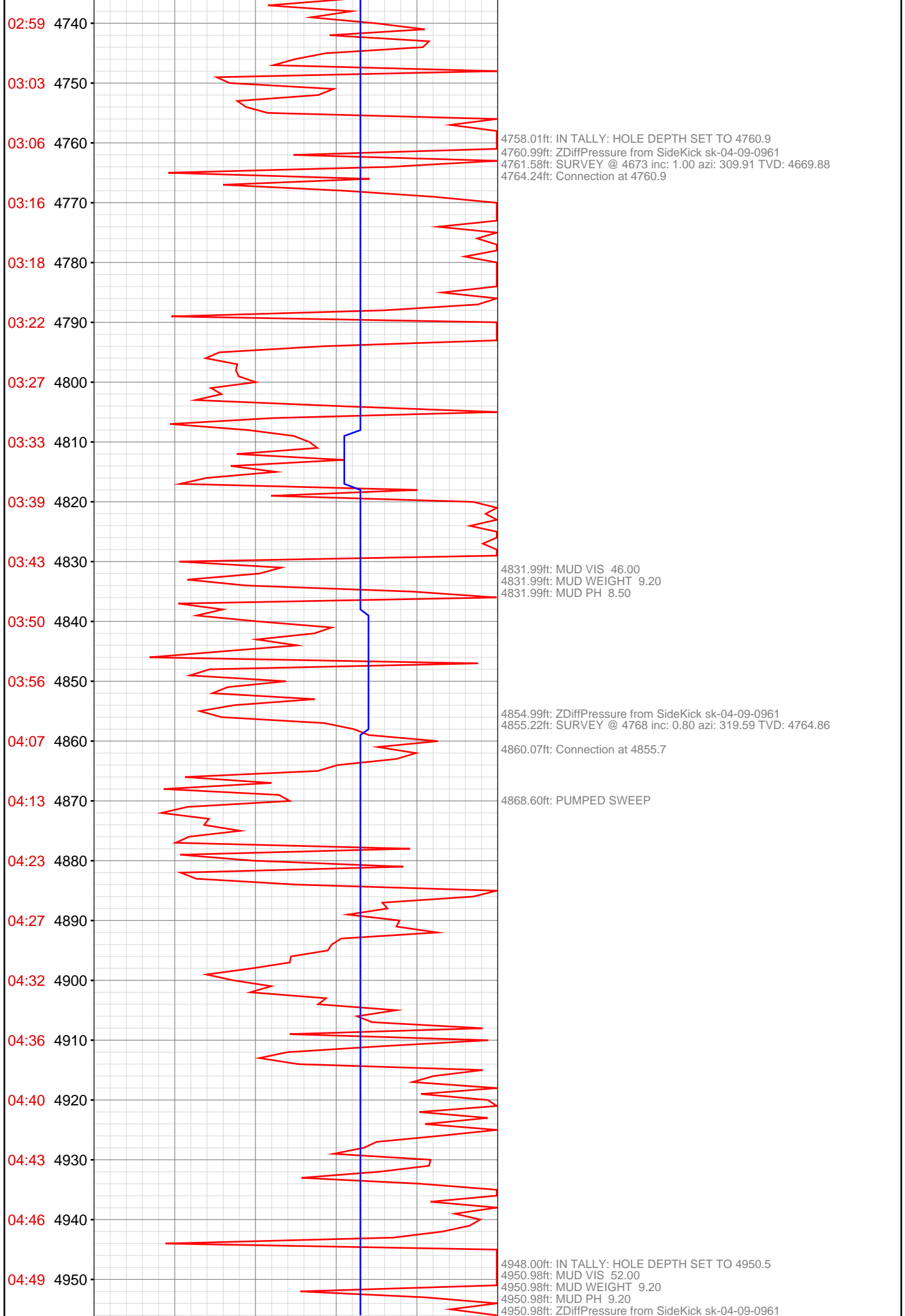


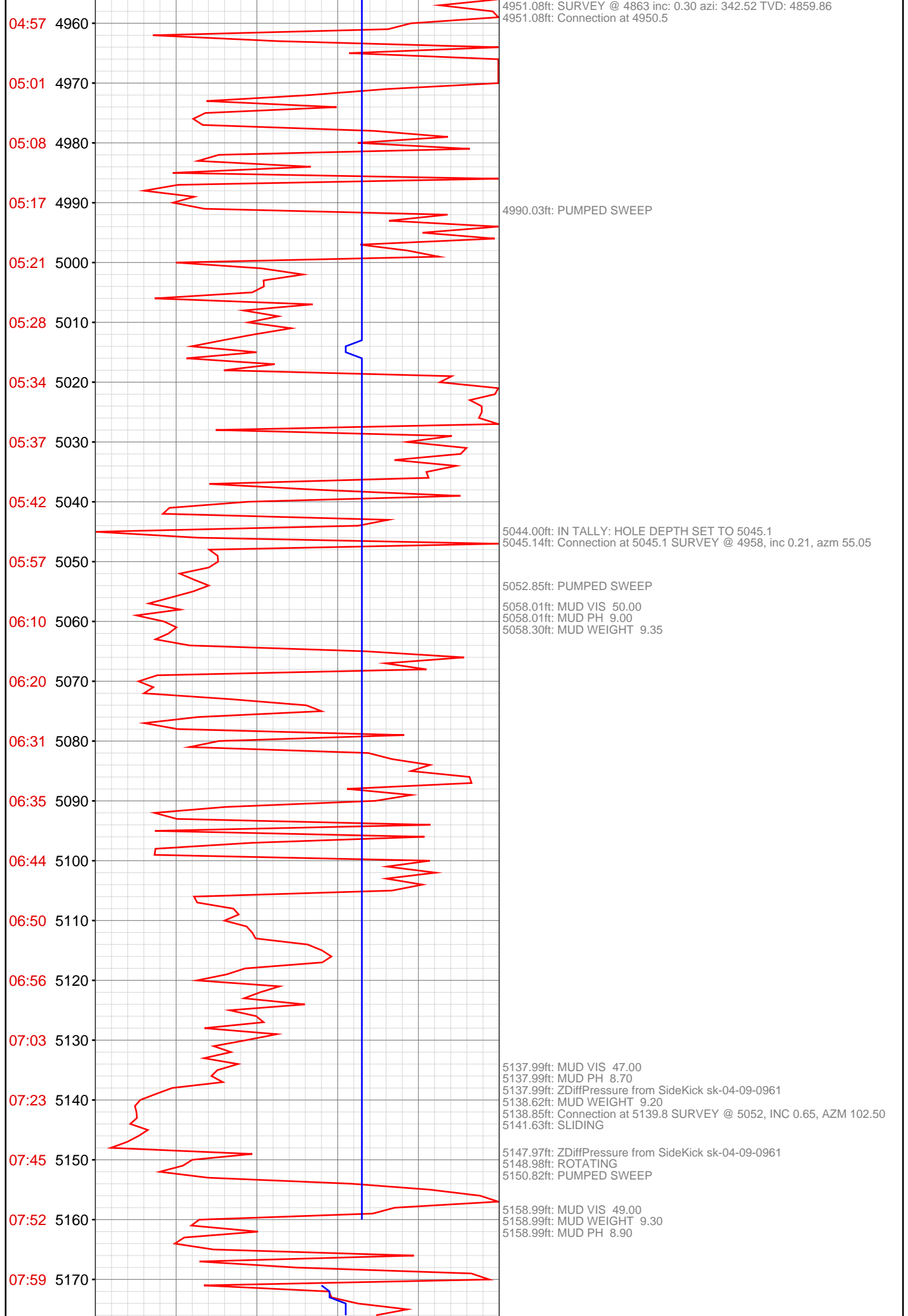


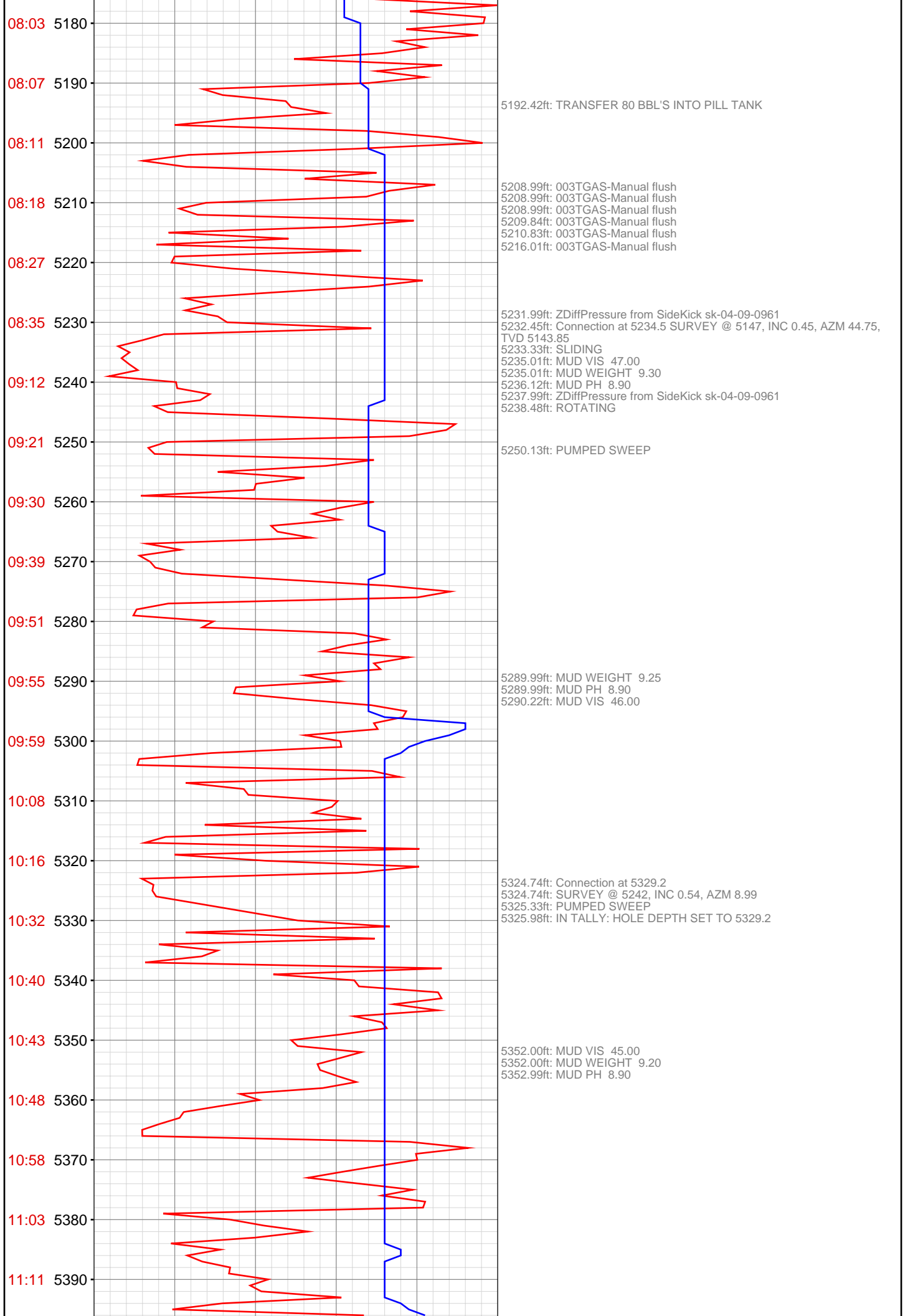


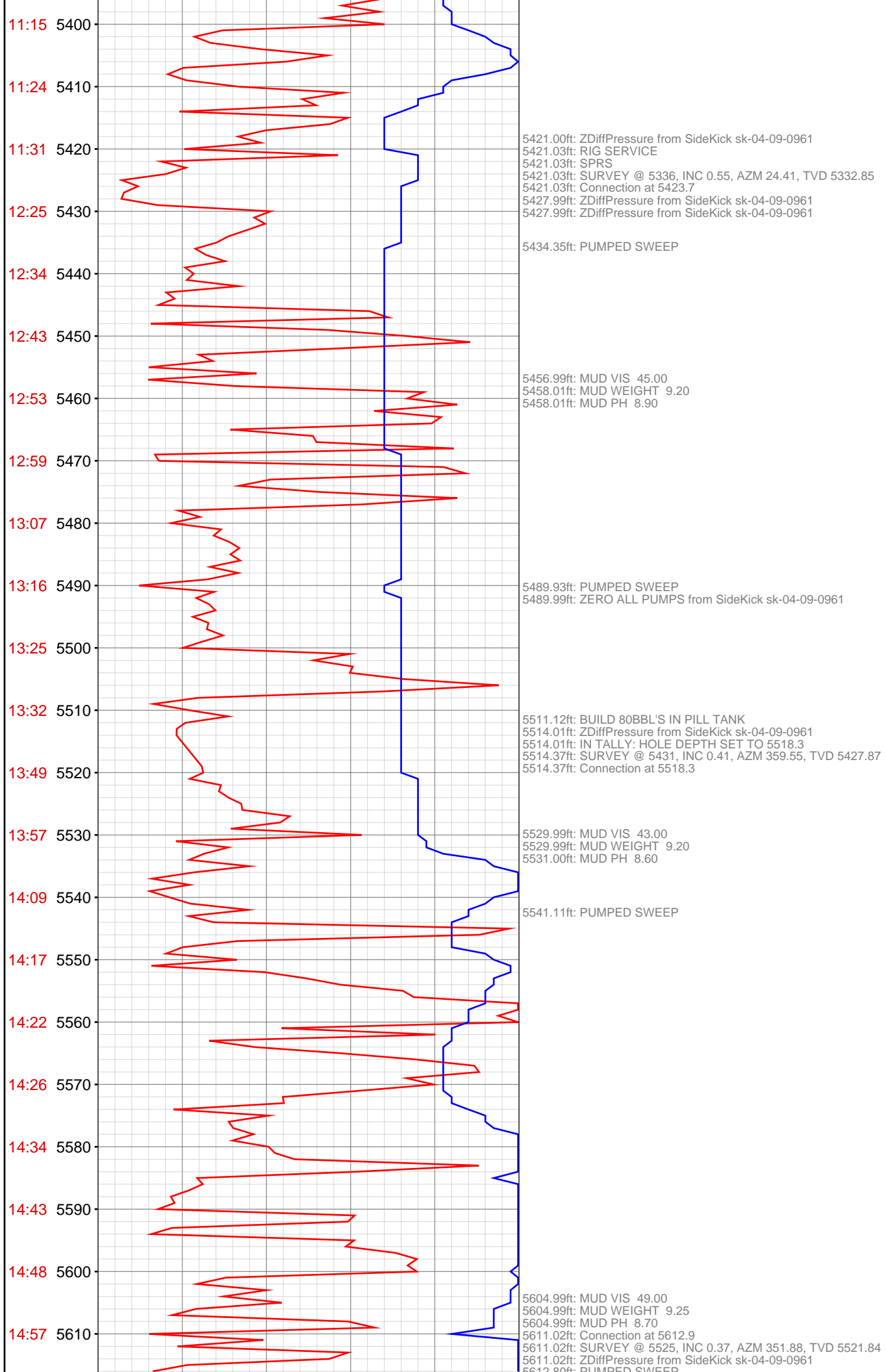












5612.60ft: PUMPED SWEEP

5660.01ft: MUD VIS 48.00
5660.01ft: MUD WEIGHT 9.25
5660.01ft: MUD PH 9.00

5704.99ft: ZDiffPressure from SideKick sk-04-09-0961
5705.54ft: SURVEY @ 5620, INC 0.08, AZM 354.20, TVD 5616.84
5705.54ft: Connection at 5707.7
5705.84ft: PUMPED SWEEP

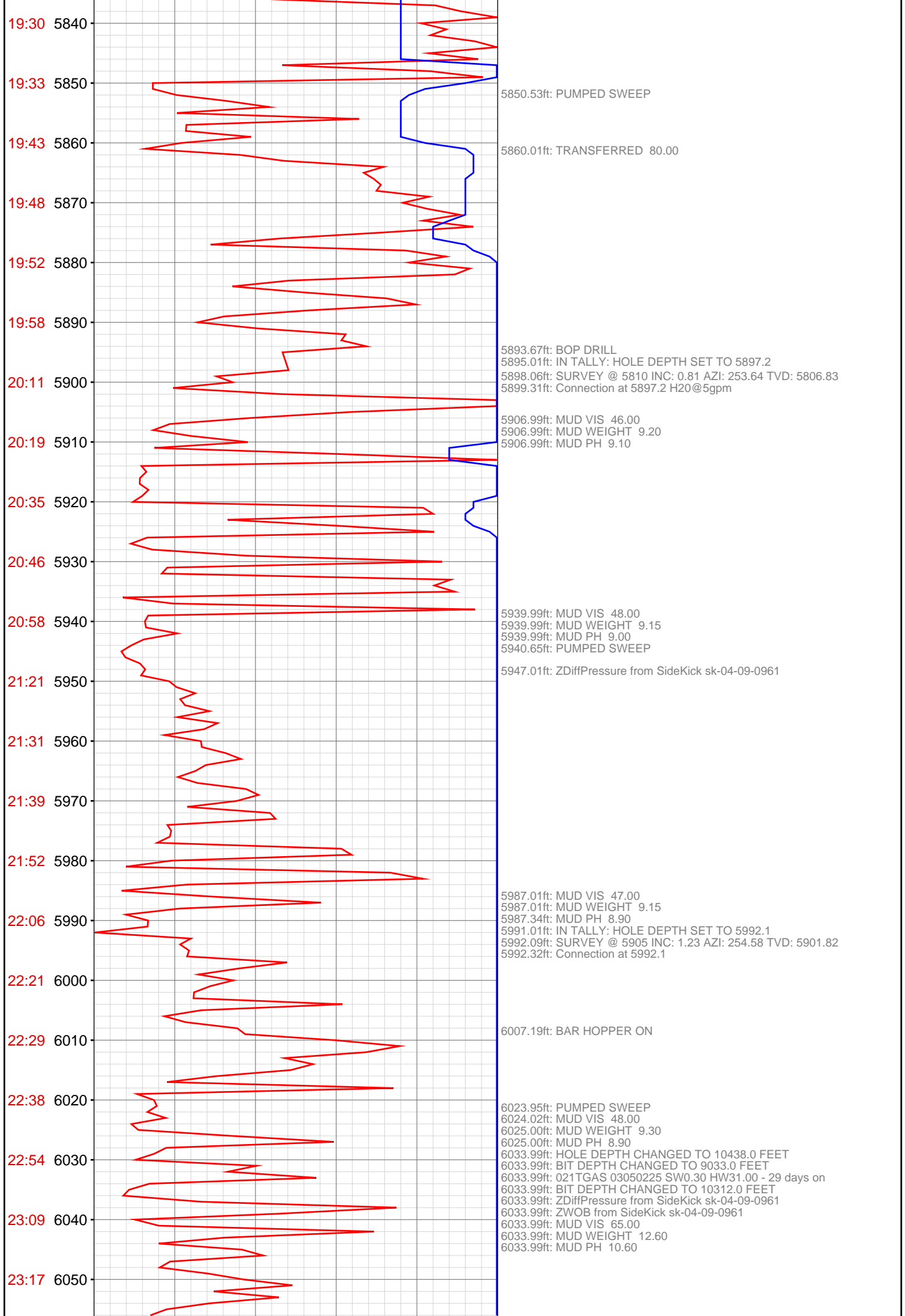
5716.99ft: MUD VIS 49.00
5716.99ft: MUD WEIGHT 9.25
5716.99ft: MUD PH 8.90

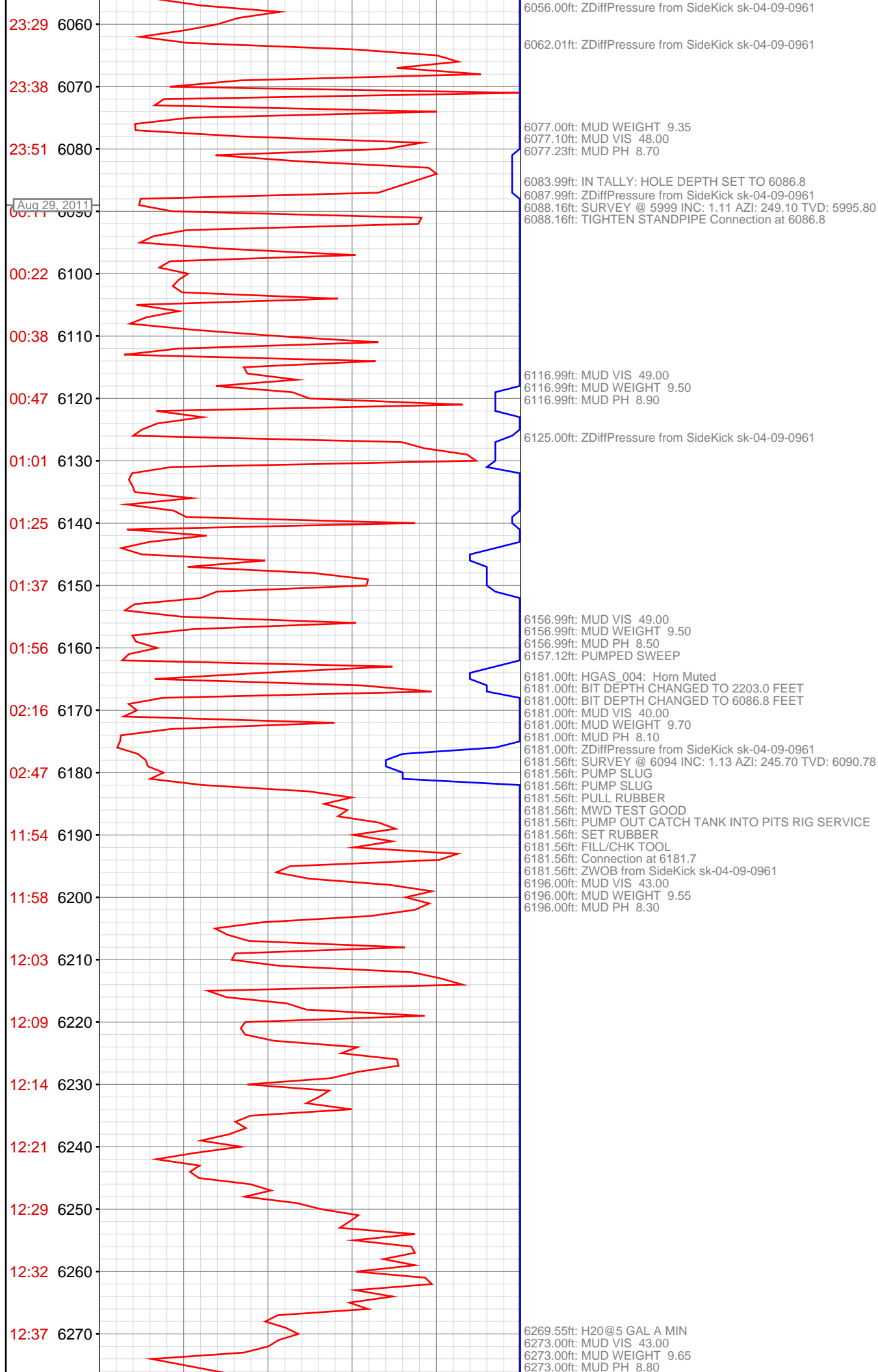
5731.00ft: 021TGAS 03050225 SW0.30 HW31.00 - 15 days on
5731.00ft: SET WEAR BUSHING
5731.00ft: MUD VIS 45.00
5731.00ft: CHECK FLOW PATH/TIGHTEN FLOW LINE
5731.00ft: FILL PIPE
5731.00ft: SET RUBBER
5735.99ft: IN TALLY: HOLE DEPTH SET TO 5739.3
5741.99ft: MUD VIS 44.00
5741.99ft: MUD WEIGHT 11.15
5741.99ft: MUD PH 11.20
5742.36ft: CIRCULATE

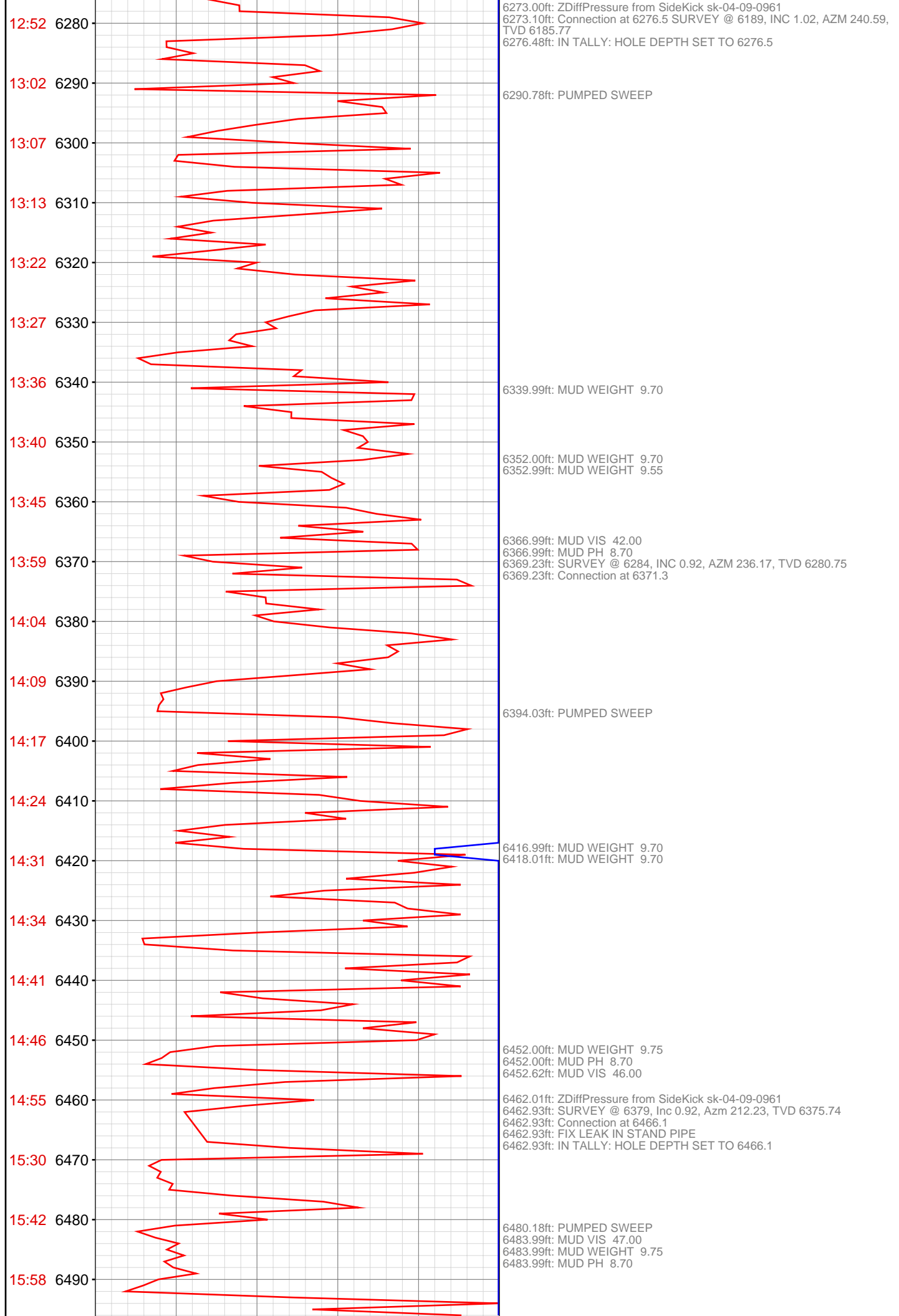
5770.01ft: MUD VIS 46.00
5770.01ft: MUD WEIGHT 9.15
5771.13ft: MUD PH 8.70

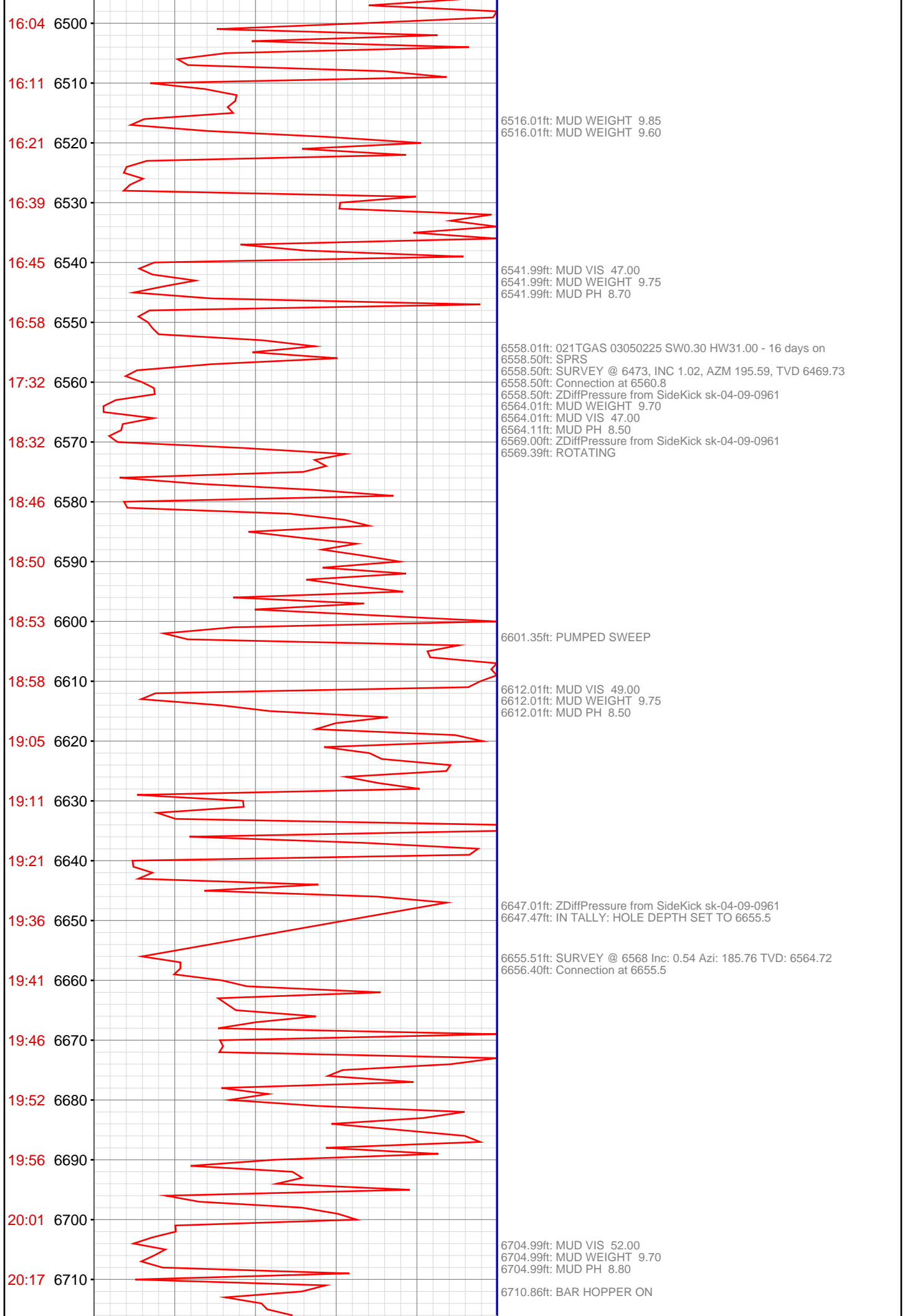
5800.00ft: IN TALLY: HOLE DEPTH SET TO 5802.5
5800.00ft: ZDiffPressure from SideKick sk-04-09-0961
5802.46ft: SURVEY @ 5715 INC: 0.31 AZI: 173.11 TVD: 5711.84
5802.46ft: Connection at 5802.5
5802.46ft: SLIDING
5804.99ft: MUD WEIGHT 9.25
5804.99ft: MUD PH 8.70
5805.48ft: MUD VIS 46.00

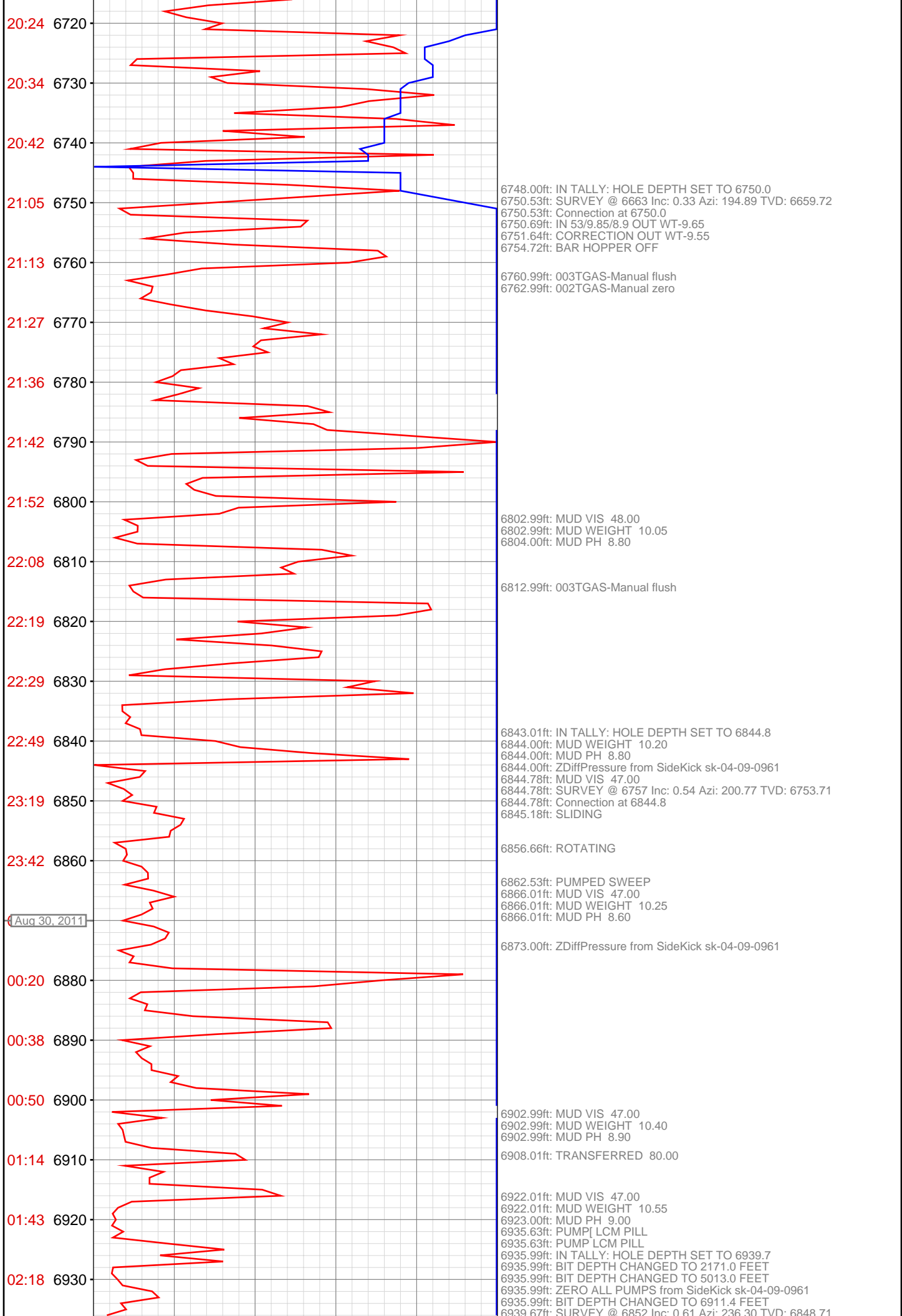
5814.90ft: ROTATING

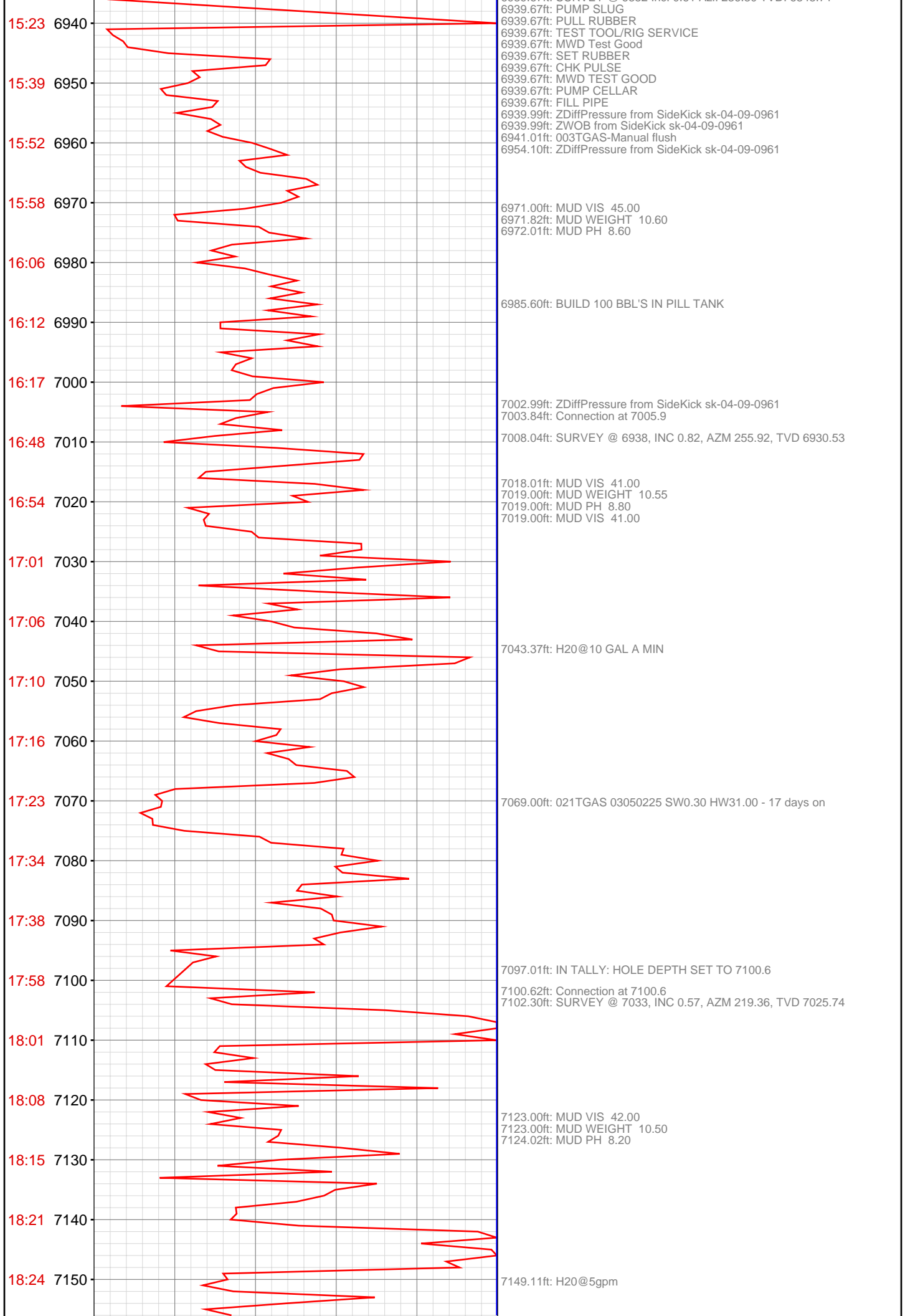


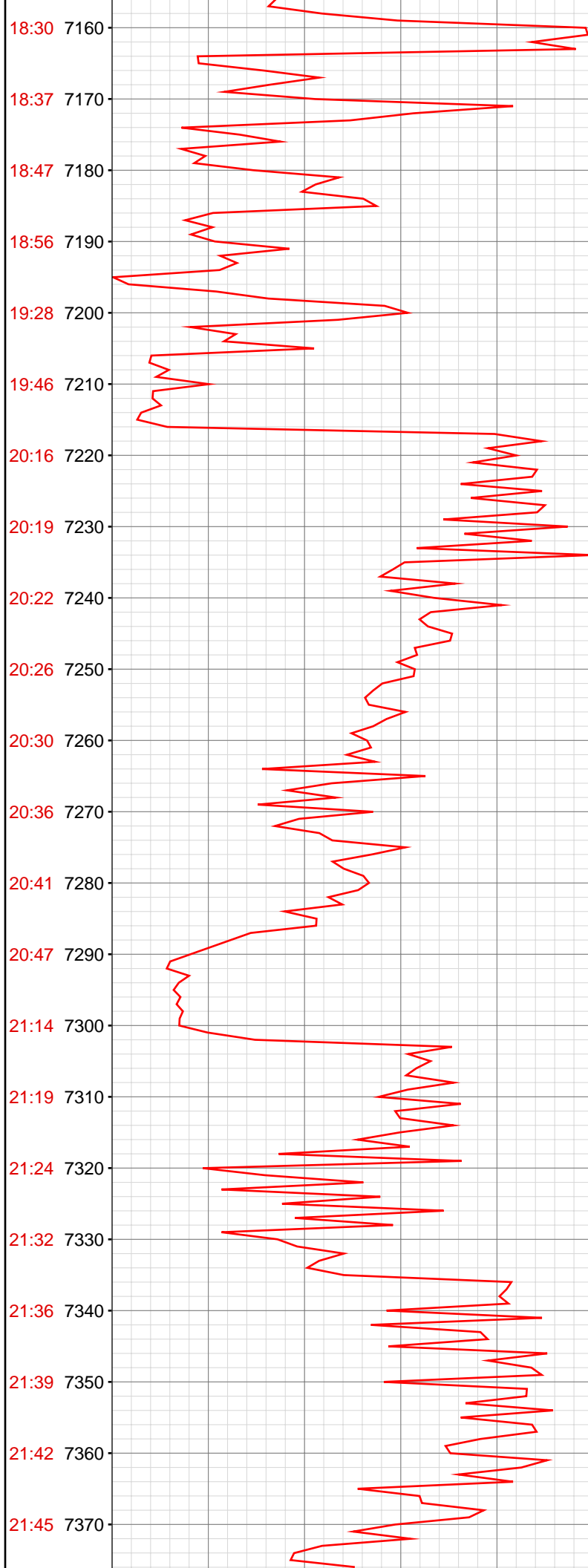












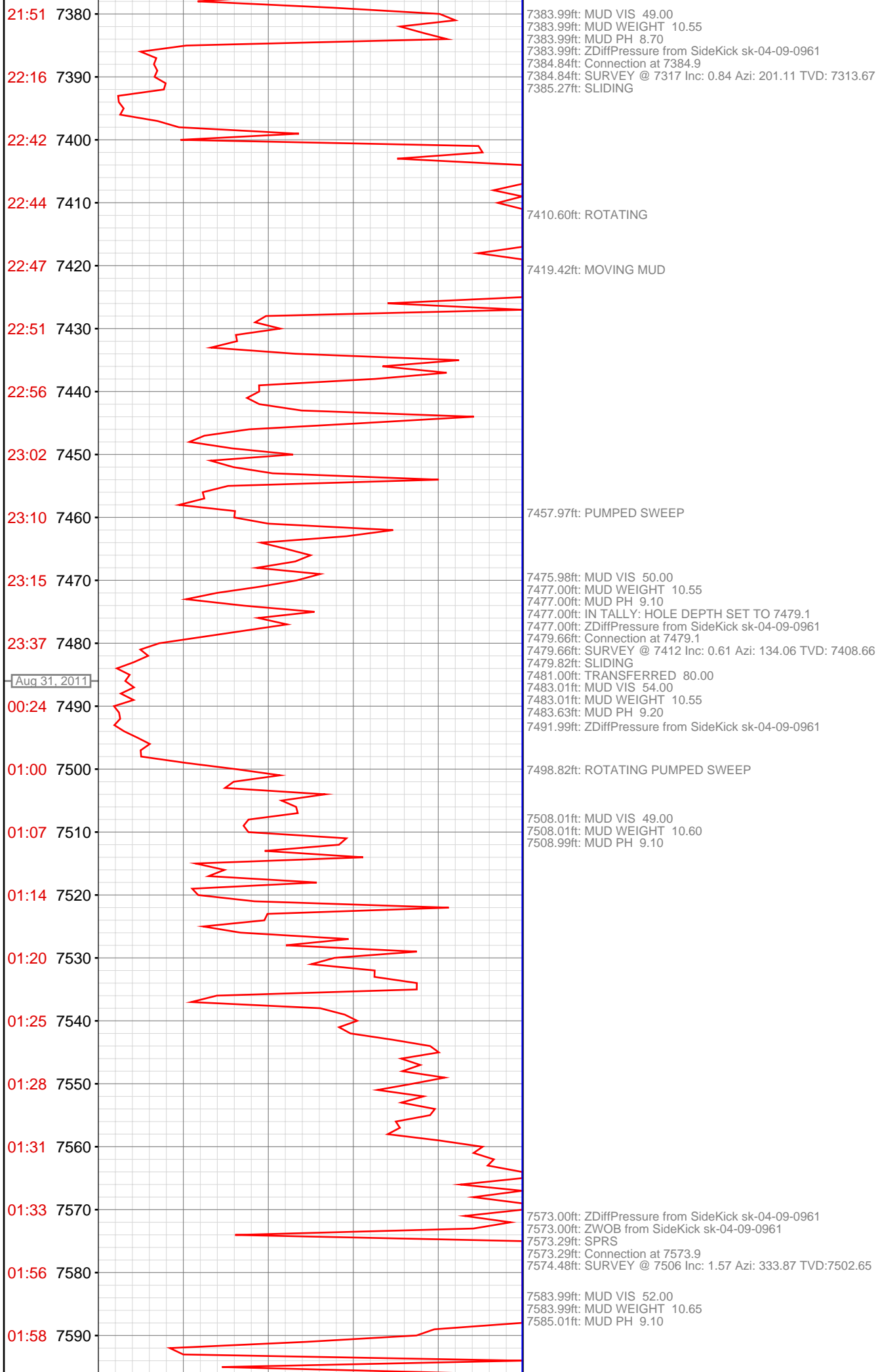
7181.99ft: MUD VIS 52.00
7183.01ft: MUD WEIGHT 10.55
7183.27ft: MUD PH 9.20

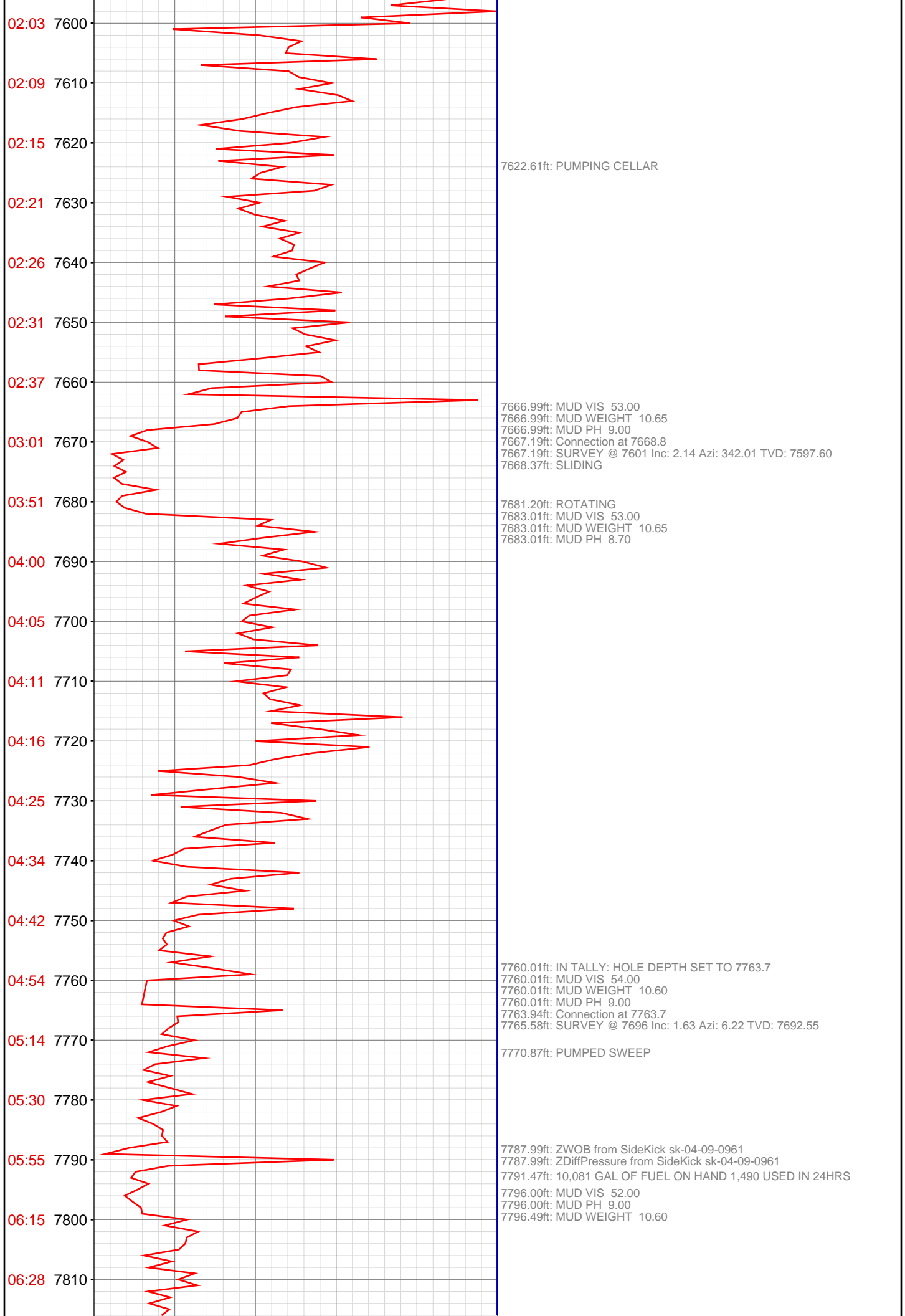
7194.00ft: IN TALLY: HOLE DEPTH SET TO 7195.5
7195.51ft: Connection at 7195.5

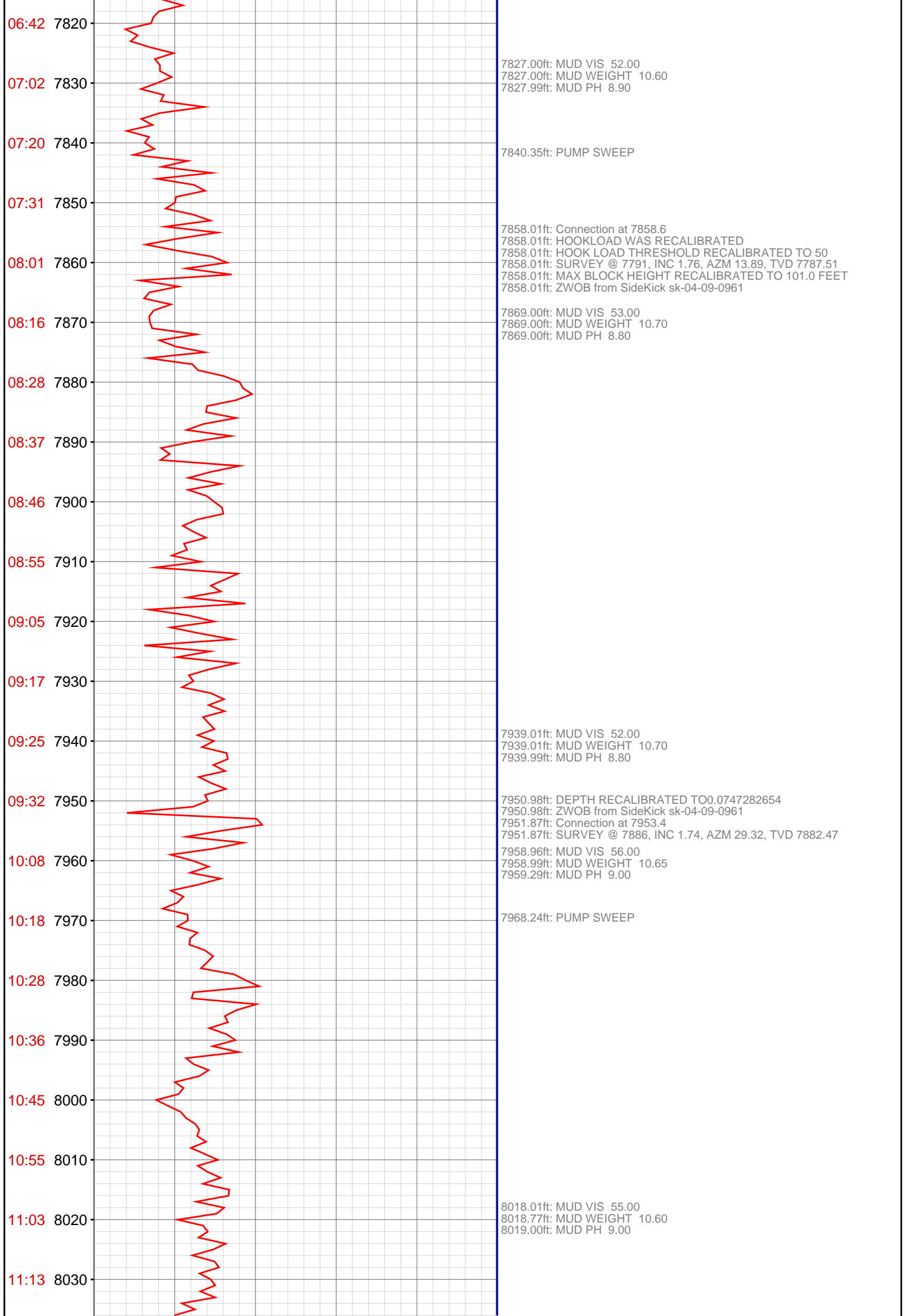
7205.68ft: SURVEY @ 7128, inc 0.91, azm 192.36, tvd 7124.69
7205.68ft: SLIDING
7210.99ft: MUD VIS 50.00
7210.99ft: MUD WEIGHT 10.55
7210.99ft: MUD PH 8.90
7215.68ft: ROTATING

7287.01ft: IN TALLY: HOLE DEPTH SET TO 7290.3
7291.01ft: MUD VIS 51.00
7291.01ft: MUD WEIGHT 10.50
7291.01ft: ZDiffPressure from SideKick sk-04-09-0961
7291.01ft: MUD PH 9.00
7291.14ft: Connection at 7290.3

7334.94ft: SURVEY @ 7223 Inc: 0.78 Azi: 198.89 TVD: 7213.68







7827.00ft: MUD VIS 52.00
7827.00ft: MUD WEIGHT 10.60
7827.99ft: MUD PH 8.90

7840.35ft: PUMP SWEEP

7858.01ft: Connection at 7858.6
7858.01ft: HOOKLOAD WAS RECALIBRATED
7858.01ft: HOOK LOAD THRESHOLD RECALIBRATED TO 50
7858.01ft: SURVEY @ 7791, INC 1.76, AZM 13.89, TVD 7787.51
7858.01ft: MAX BLOCK HEIGHT RECALIBRATED TO 101.0 FEET
7858.01ft: ZWOB from SideKick sk-04-09-0961

7869.00ft: MUD VIS 53.00
7869.00ft: MUD WEIGHT 10.70
7869.00ft: MUD PH 8.80

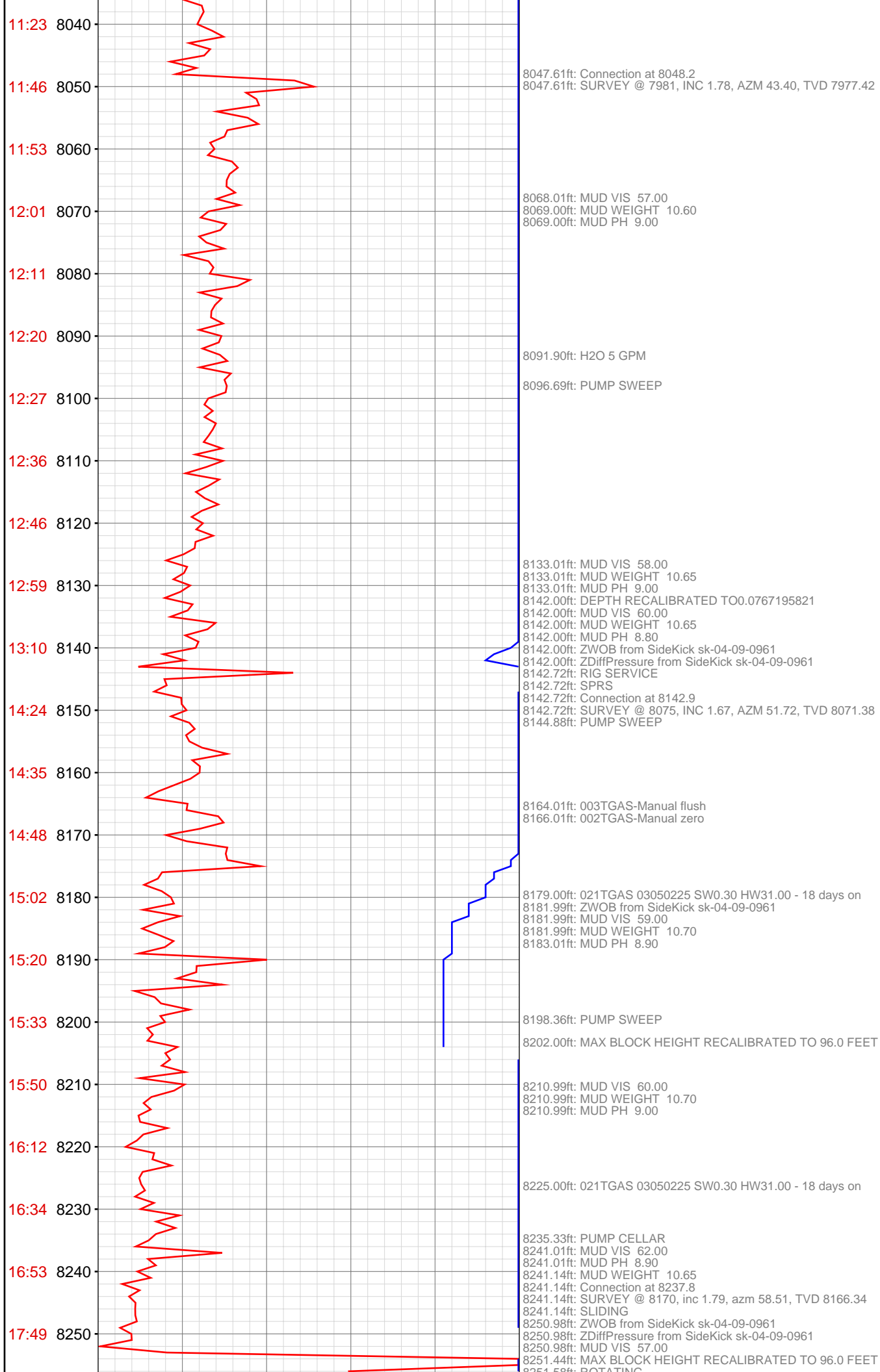
7939.01ft: MUD VIS 52.00
7939.01ft: MUD WEIGHT 10.70
7939.99ft: MUD PH 8.80

7950.98ft: DEPTH RECALIBRATED TO 0.0747282654
7950.98ft: ZWOB from SideKick sk-04-09-0961
7951.87ft: Connection at 7953.4
7951.87ft: SURVEY @ 7886, INC 1.74, AZM 29.32, TVD 7882.47

7958.96ft: MUD VIS 56.00
7958.99ft: MUD WEIGHT 10.65
7959.29ft: MUD PH 9.00

7968.24ft: PUMP SWEEP

8018.01ft: MUD VIS 55.00
8018.77ft: MUD WEIGHT 10.60
8019.00ft: MUD PH 9.00



8251.38ft: ROTATING
8252.00ft: MUD WEIGHT 10.60
8252.00ft: MUD PH 9.00
8252.99ft: HOLE DEPTH CHANGED TO 8237.0 FEET

8284.09ft: PUMPED SWEEP

8287.57ft: IN-WT 10.6/VIS 57/PH 9,OUT-WT 10.6 WATER 5 GAL/MIN

8314.57ft: IN-WT 10.6/VIS 58/PH 9,OUT-WT 10.6/WATER 5 GAL/MIN

8325.98ft: MAX BLOCK HEIGHT RECALIBRATED TO 136.0 FEET
8329.00ft: ZDiffPressure from SideKick sk-04-09-0961
8329.59ft: Connection at 8331.7
8329.59ft: SURVEY @ 8264 Inc: 2.16 Azi: 56.18 TVD: 8260.28
8329.59ft: SLIDING
8331.59ft: IN-WT 10.6/VIS 57/PH 9,OUT-WT 10.5+/WATER 5 GAL/MIN

8341.01ft: ZDiffPressure from SideKick sk-04-09-0961
8343.24ft: IN-WT 10.6/VIS 58/PH 9.4,OUT-WT 10.5+/WATER 5 GAL/MIN
ROTATING PUMPED SWEEP

8366.86ft: IN VIS 57/ MW 10.6/ PH 9.6/ OUT MW 10.55/ H2O 5GPM

8393.90ft: TRANSFER MUD TO TRIP TANK
8395.87ft: IN-WT 10.6/VIS 57/PH 9.7,OUT-WT 10.5+/WATER 5 GAL/MIN

8427.49ft: Connection at 8426.5
8427.49ft: TRANSFER MUD F/TRIPTANK T/PITS
8427.49ft: SURVEY @ 8359 Inc: 1.33 Azi: 51.91 TVD: 8355.24
8427.49ft: SLIDING

8439.99ft: ZDiffPressure from SideKick sk-04-09-0961
8439.99ft: ZWOB from SideKick sk-04-09-0961
8440.52ft: ROTATING PUMPED SWEEP
8440.52ft: IN-WT 10.6/VIS 54/PH 9.7,OUT-WT 10.5+/WATER 5 GAL/MIN

18:36 8260

18:47 8270

19:04 8280

19:24 8290

19:46 8300

20:07 8310

20:27 8320

21:20 8330

22:12 8340

22:38 8350

23:02 8360

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23:57 8390

00:10 8400

00:25 8410

00:43 8420

01:31 8430

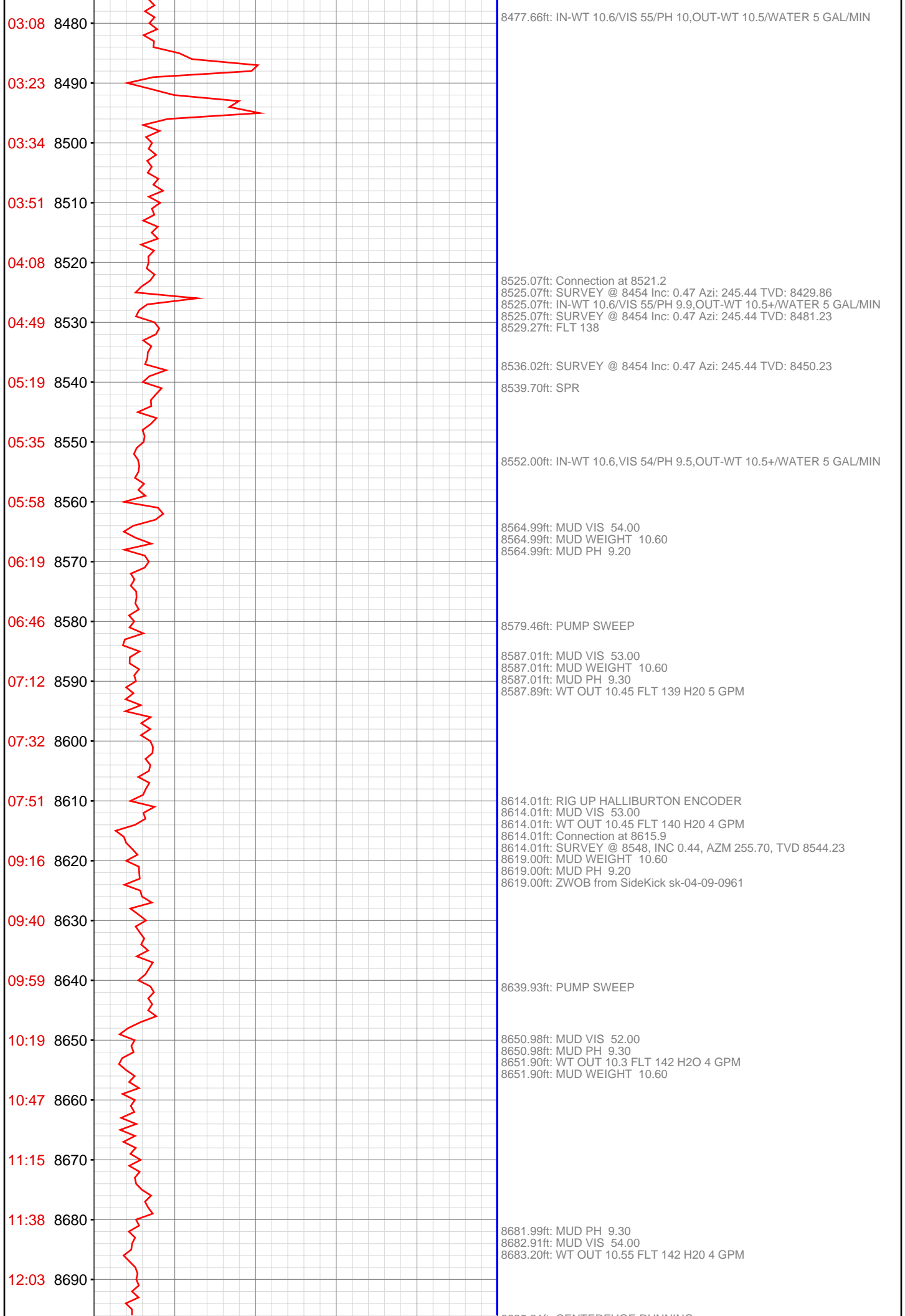
02:00 8440

02:17 8450

02:31 8460

02:49 8470

Sep 01, 2011



12:25 8700
12:50 8710
14:00 8720
14:27 8730
14:50 8740
15:15 8750
15:46 8760
16:13 8770
16:51 8780
17:15 8790
17:34 8800
18:25 8810
18:48 8820
Sep 02, 2011
07:15 8830
07:32 8840
07:40 8850
07:46 8860
07:53 8870
08:00 8880
08:06 8890
08:12 8900
09:01 8910

8710.99ft: MUD VIS 54.00
8710.99ft: MUD WEIGHT 10.60
8710.99ft: MUD PH 9.30
8711.75ft: SPRS
8711.75ft: CALIBRATE HALLIBURTON ENCODER
8711.75ft: Connection at 8710.7
8711.75ft: SURVEY @ 8643, INC 0.57, AZM 199.37, TVD 8639.22
8718.01ft: MUD VIS 55.00
8718.01ft: MUD WEIGHT 10.60
8718.96ft: MUD PH 9.10
8719.09ft: WT OUT 10.45 FLT 142 H2O 5 GPM

8729.53ft: PUMP SWEEP

8741.01ft: MUD VIS 56.00
8741.01ft: MUD WEIGHT 10.60
8741.01ft: MUD PH 9.00
8742.29ft: WT OUT 10.55 FLT 142 H2O 5 GPM
8743.96ft: H2O 8 GPM
8748.00ft: 003TGAS-Manual flush
8748.00ft: 002TGAS-Manual zero

8764.99ft: MUD VIS 56.00
8764.99ft: MUD WEIGHT 10.60
8764.99ft: MUD PH 9.30
8766.04ft: WT OUT 10.3 FLT 142 H2O 8 GPM CENTERFUGE OFF
8773.00ft: 021TGAS 03050225 SW0.30 HW31.00 - 19 days on
8773.00ft: ZDiffPressure from SideKick sk-04-09-0961
8773.59ft: BOP DRILL

8781.40ft: FLOW THROUGH BUSTER

8787.99ft: MUD VIS 56.00
8787.99ft: MUD WEIGHT 10.60
8787.99ft: MUD PH 9.30
8804.99ft: SURVEY @ 8738, INC 0.79, AZM 155.78, TVD 8734.22
8804.99ft: ROTATING
8808.99ft: ZERO ALL PUMPS from SideKick sk-04-09-0961
8808.99ft: ZWOB from SideKick sk-04-09-0961
8808.99ft: ZDiffPressure from SideKick sk-04-09-0961
8809.32ft: Connection at 8805.4
8814.73ft: IN-WT 10.6/VIS 51/PH 9.2,OUT-WT 10.5+/FLT 144/H2O 10 GAL/MIN

8816.86ft: PUMPED SWEEP
8820.41ft: DRILL THRU FLOWLINE,DRAIN BUSTER
8825.79ft: FILL TRIP TANK
8827.00ft: ZERO ALL PUMPS from SideKick sk-04-09-0961
8827.00ft: ZERO ALL PUMPS from SideKick sk-04-09-0961
8827.00ft: ZWOB from SideKick sk-04-09-0961
8827.00ft: ZDiffPressure from SideKick sk-04-09-0961
8827.85ft: CIRCULATE

8827.85ft: PULL 3STDs PUMP SLUG FLOW CHECK
8827.85ft: NO FLOW
8827.85ft: FLOW CHECK
8827.85ft: NO FLOW
8827.85ft: FLOW CHECK
8827.85ft: NO FLOW
8827.85ft: FLOW CHECK
8827.85ft: NO FLOW

8827.85ft: STABBING ROT HEAD
8827.85ft: MWD Test Good
8827.85ft: FILL PIPE , MWD TOOL
8827.85ft: FILL PIPE, TEST MWD TOOL
8827.85ft: BIT DEPTH CHANGED TO 7479.0 FEET
8827.85ft: FILL PIPE , BU
8831.00ft: MUD VIS 52.00
8831.00ft: MUD WEIGHT 10.65
8831.00ft: MUD PH 8.60

8831.63ft: WT OUT 10.15/TEMP-121/H2O@5gpm
8850.98ft: BIT DEPTH CHANGED TO 8805.0 FEET
8850.98ft: HOLE DEPTH CHANGED TO 8827.0 FEET
8850.98ft: ZDiffPressure from SideKick sk-04-09-0961
8850.98ft: ZWOB from SideKick sk-04-09-0961

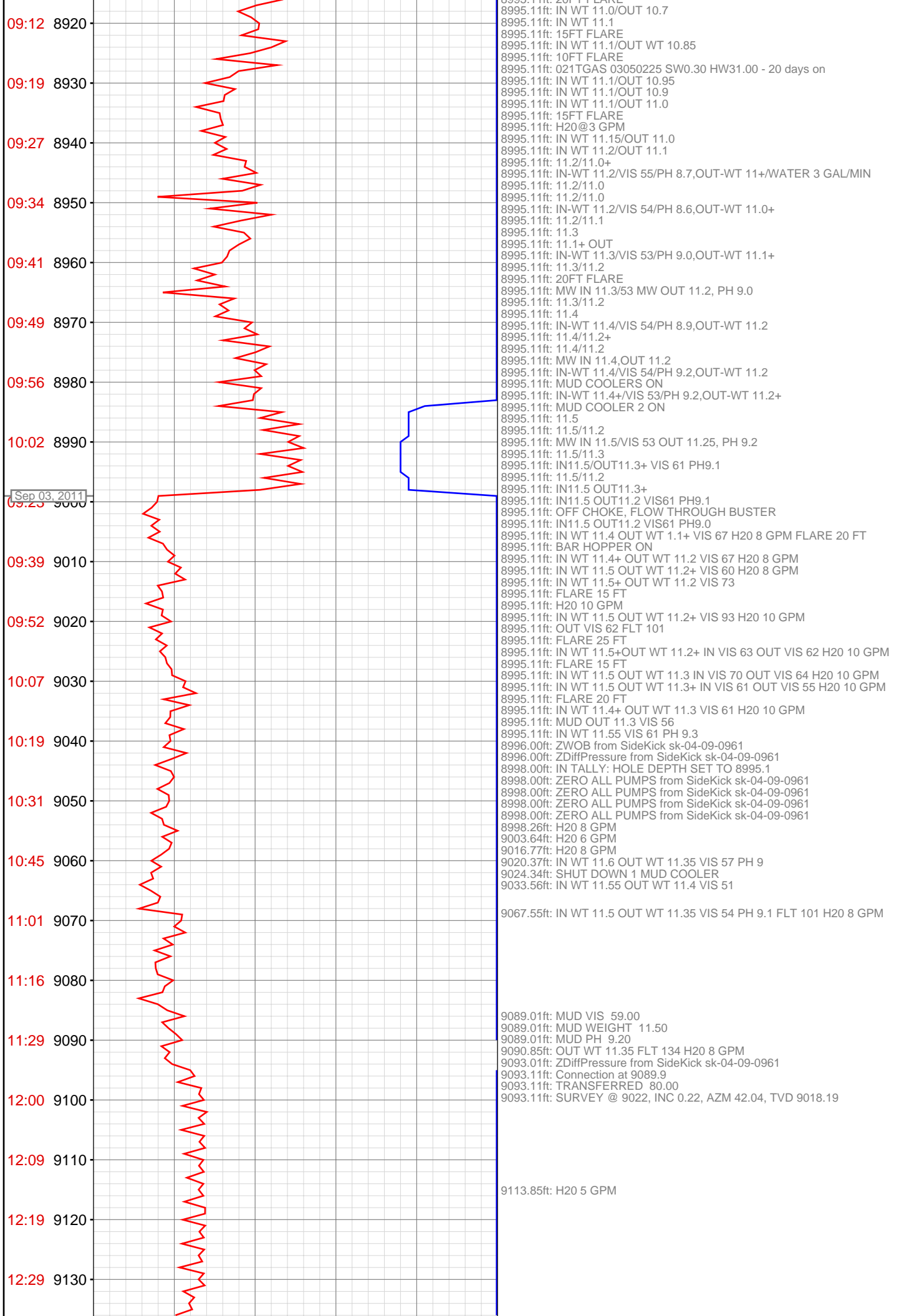
8893.70ft: in vis52 wt 10.6 ph 8.9
8895.21ft: out wt 10.35 fl temp 121 gpm 7
8900.20ft: Connection at 8900.2
8900.20ft: SURVEY @ 8833, INC 1.13, AZM 144.55, TVD 8829.20
8900.82ft: SLIDING

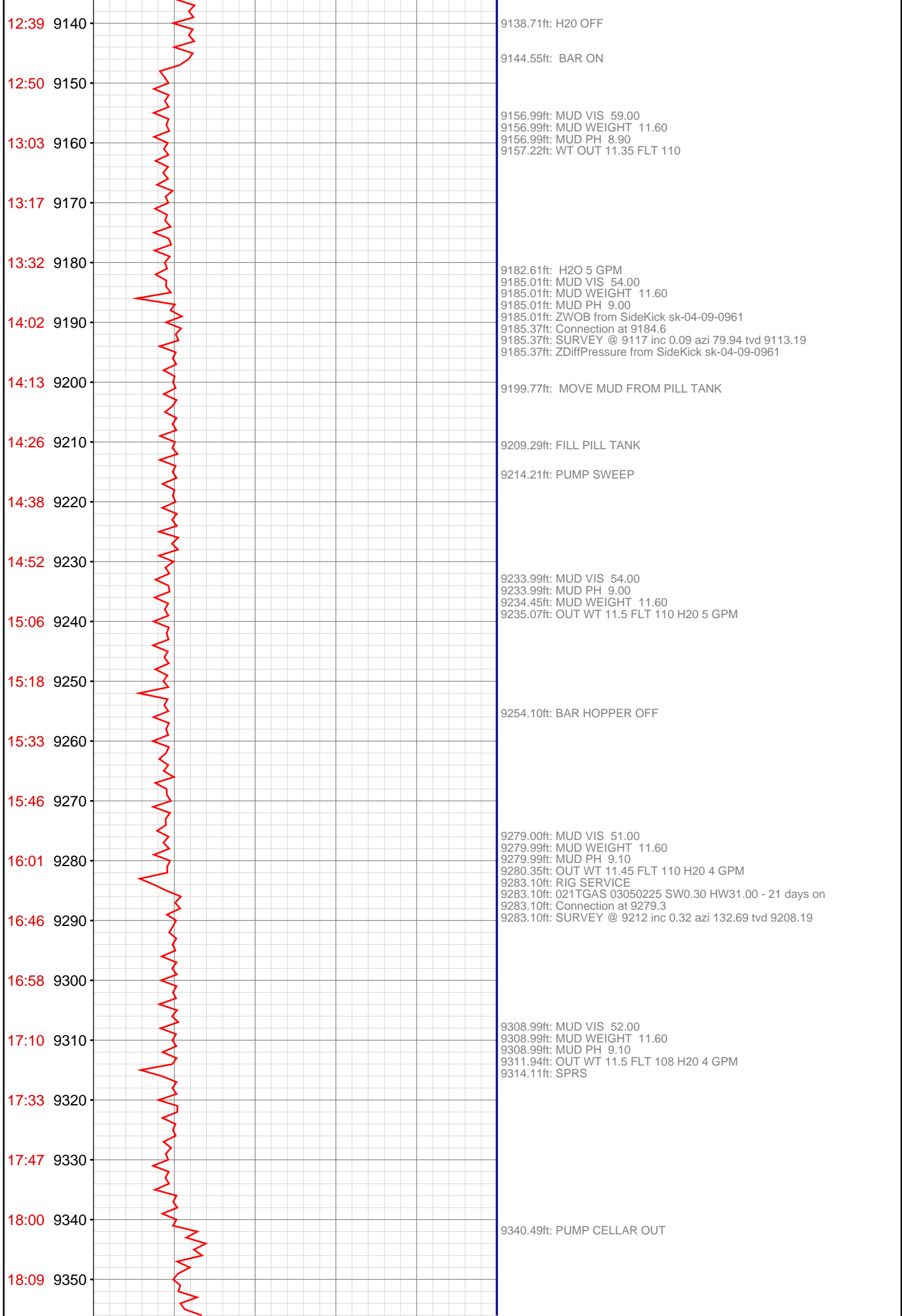
8903.87ft: IN 51/10.6/8.9/OUT 10.4/TEMP-132/H2O 5-GPM
8904.00ft: IN TALLY: HOLE DEPTH SET TO 8900.2
8905.41ft: GAS BUSTER ON VENT
8913.85ft: ROTATING
8938.88ft: PUMPED SWEEP
8975.23ft: IN 53/10.65/9.0/OUT 10.55/TEMP-134/GPM-5
8995.11ft: SPRS 1/2

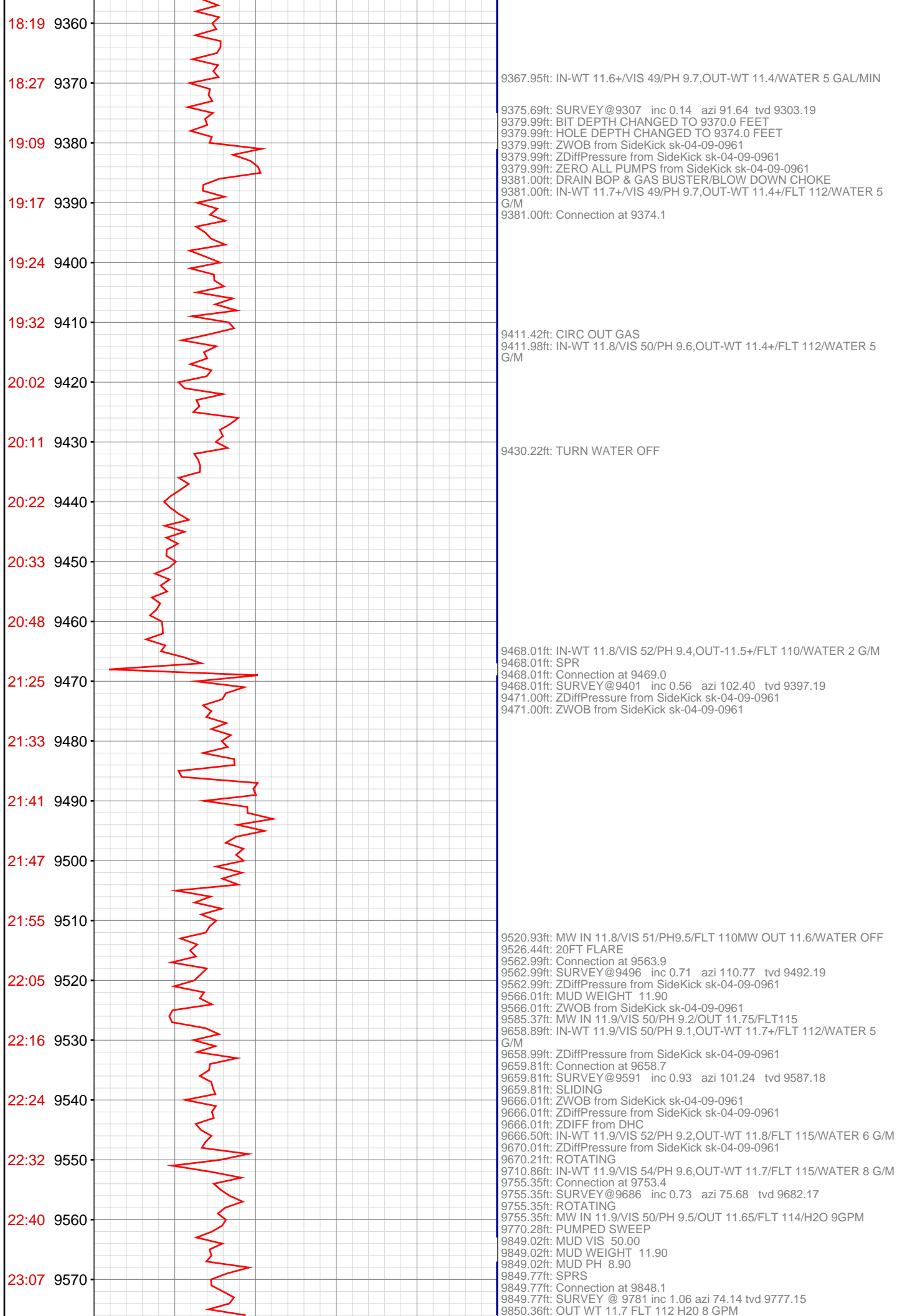
8995.11ft: Connection at 8995.1
8995.11ft: SURVEY @ 8928, INC 0.19, AZM 198.95, TVD 8924.19
8995.11ft: WT IN 10.7/OUT 10.75
8995.11ft: SHUT WELL IN

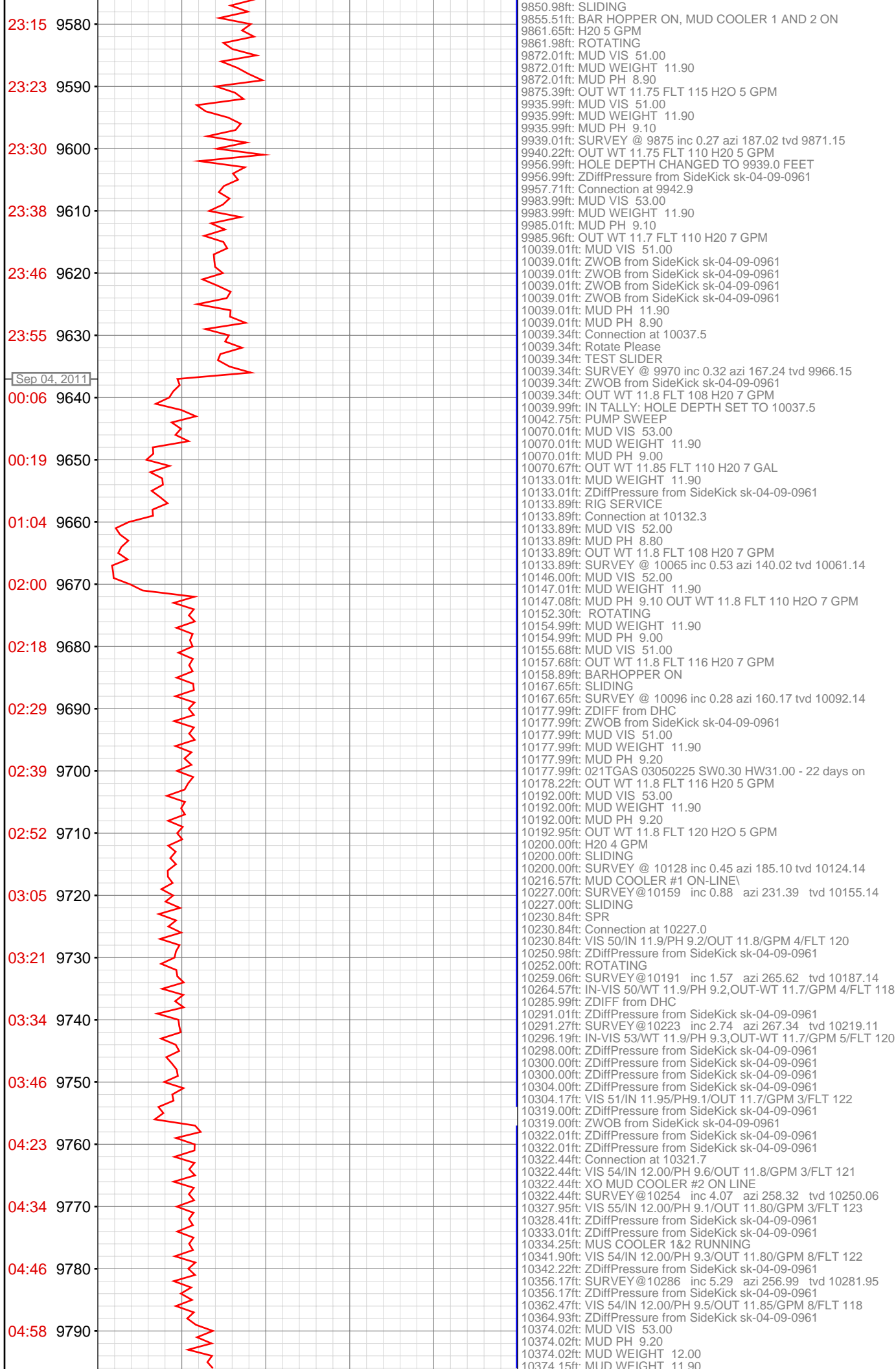
8995.11ft: Bring mud Wt. up to 10.8 in tanks
8995.11ft: START PUMPING KILL MUD 10.9
8995.11ft: IN WT 10.9/OUT 10.6

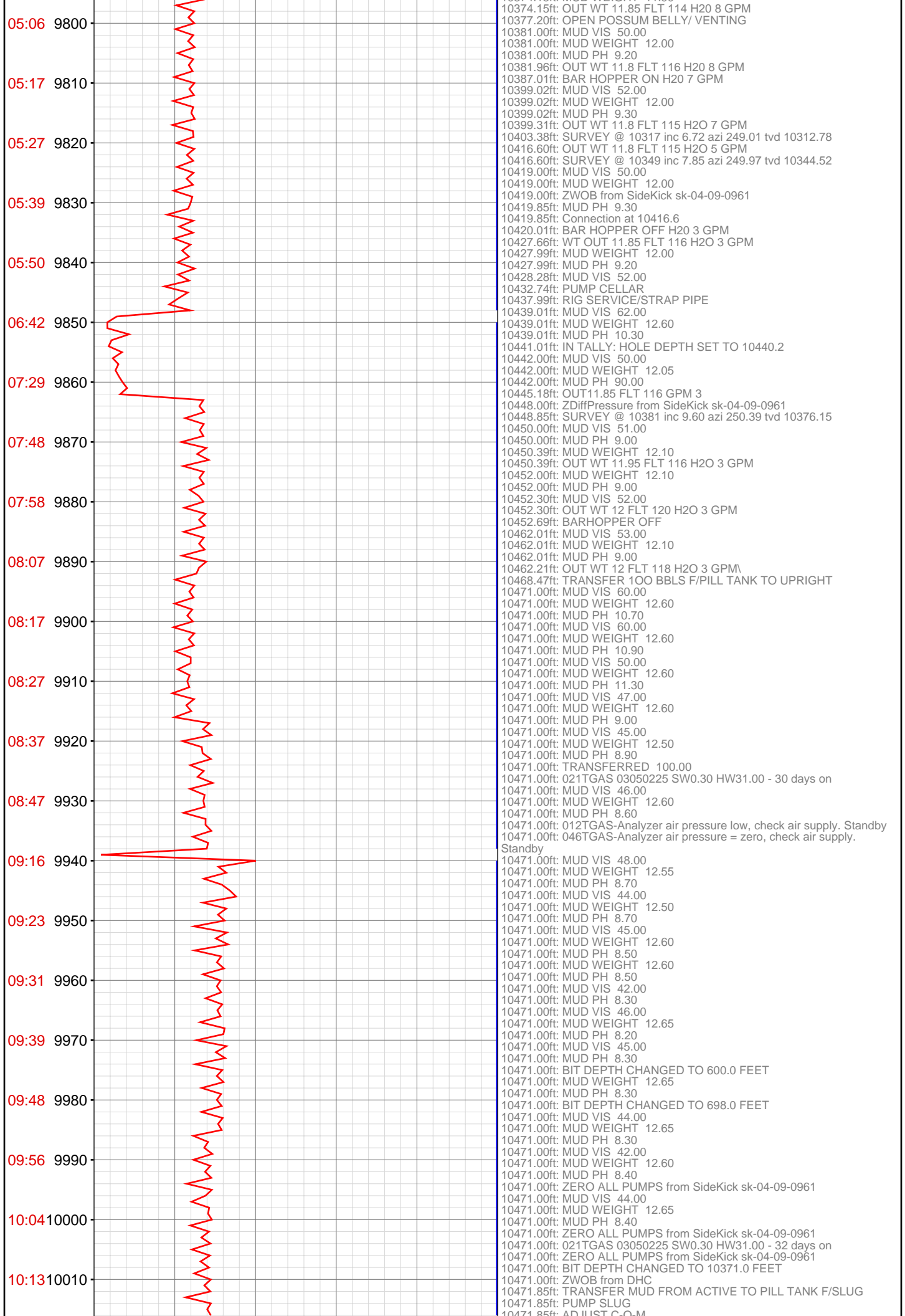
8995.11ft: 18FT FLARE
8995.11ft: 25FT FLARE
8995.11ft: 40FT FLARE
8995.11ft: 30FT FLARE
8995.11ft: WT IN 11.0/OUT 10.65
8995.11ft: IN WT 11.0/OUT WT 10.85
8995.11ft: 20FT FLARE

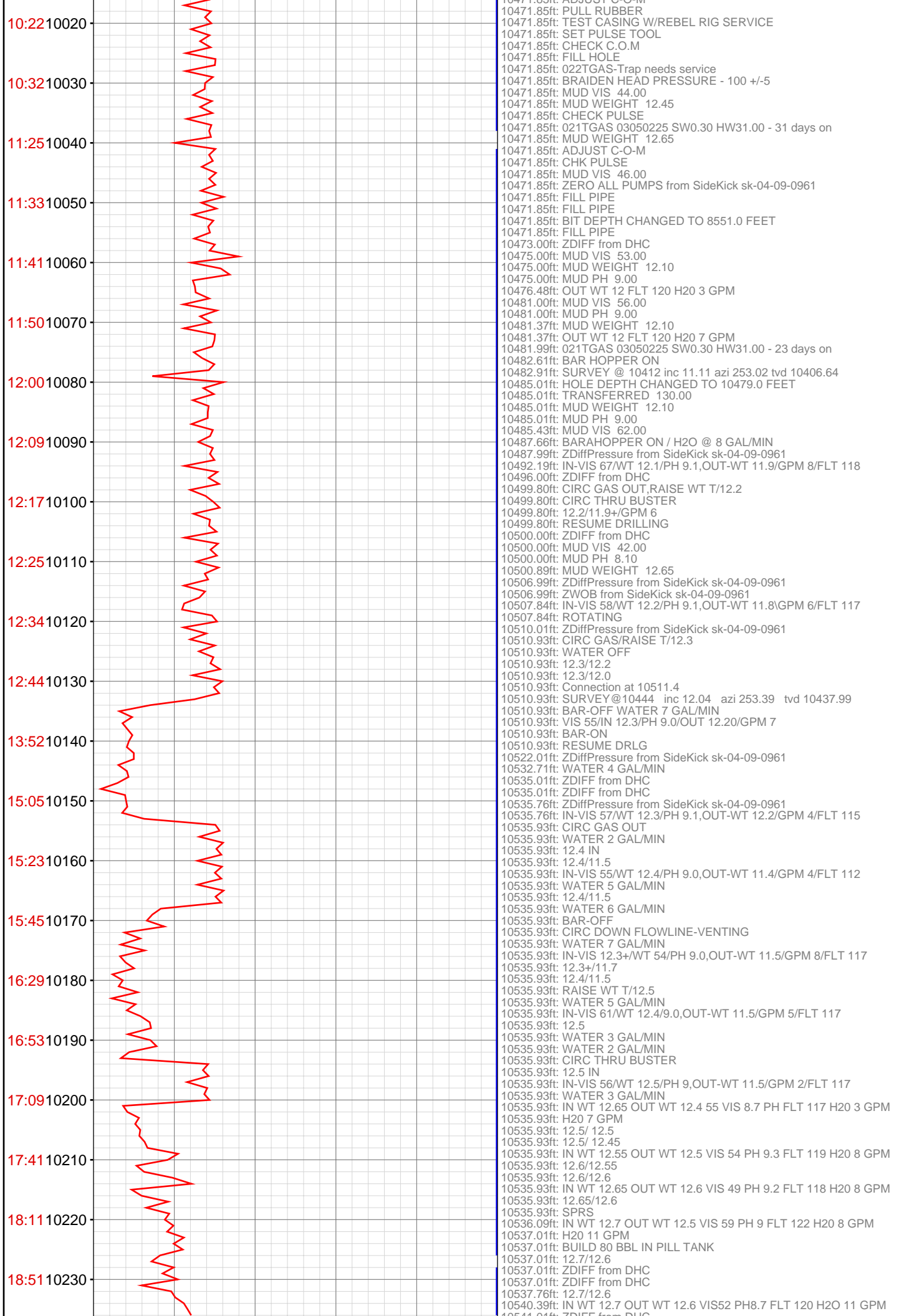


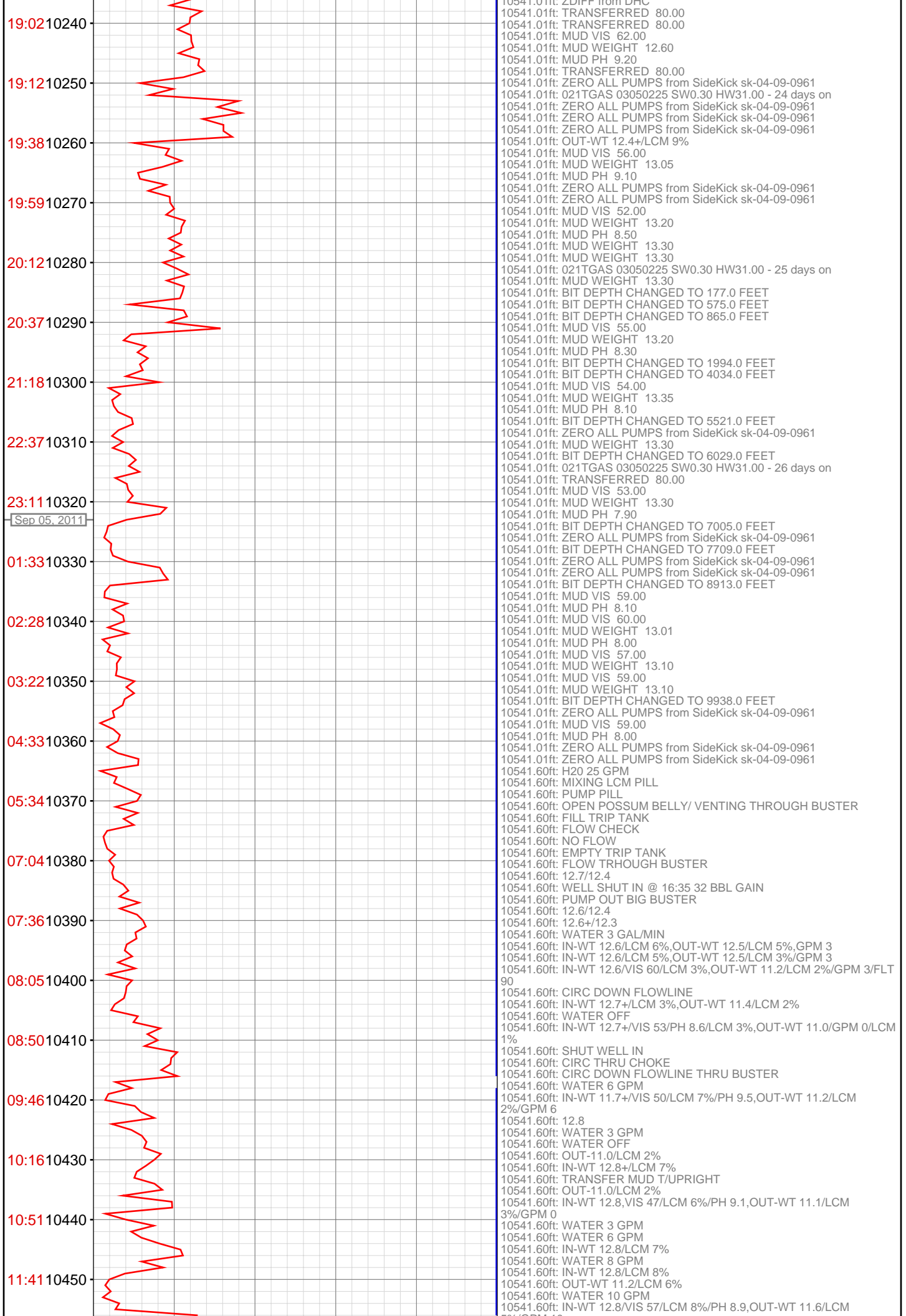


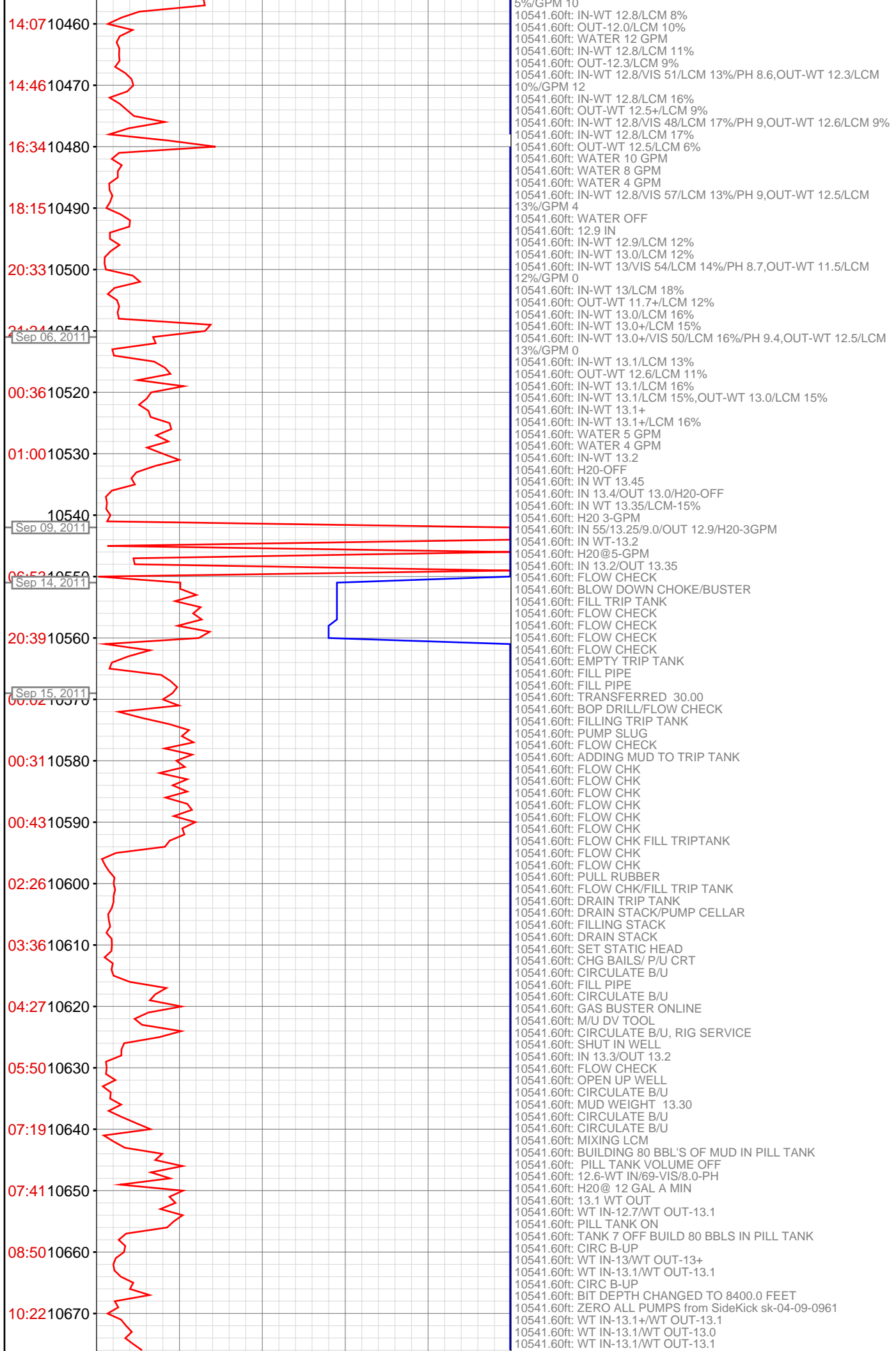


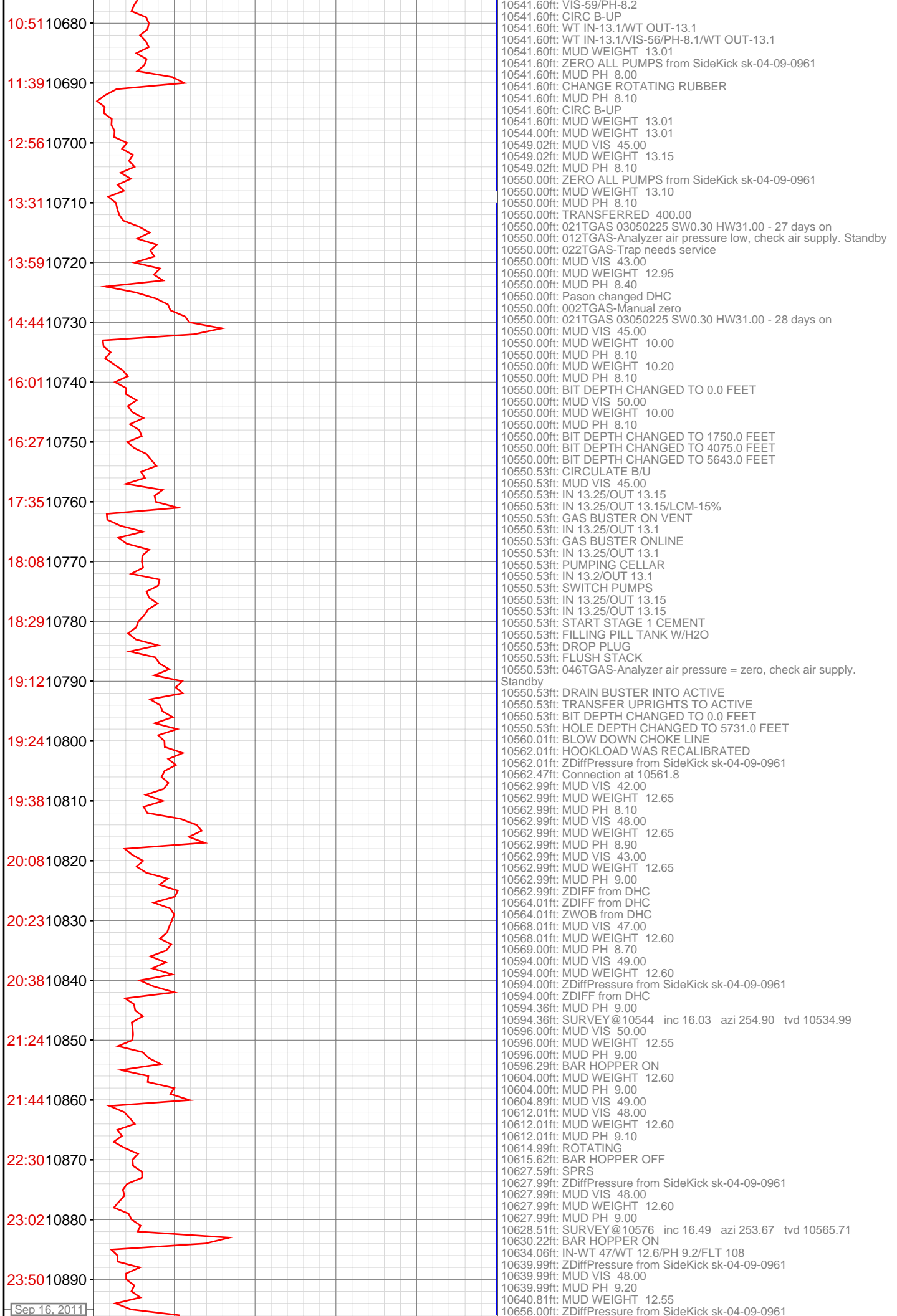


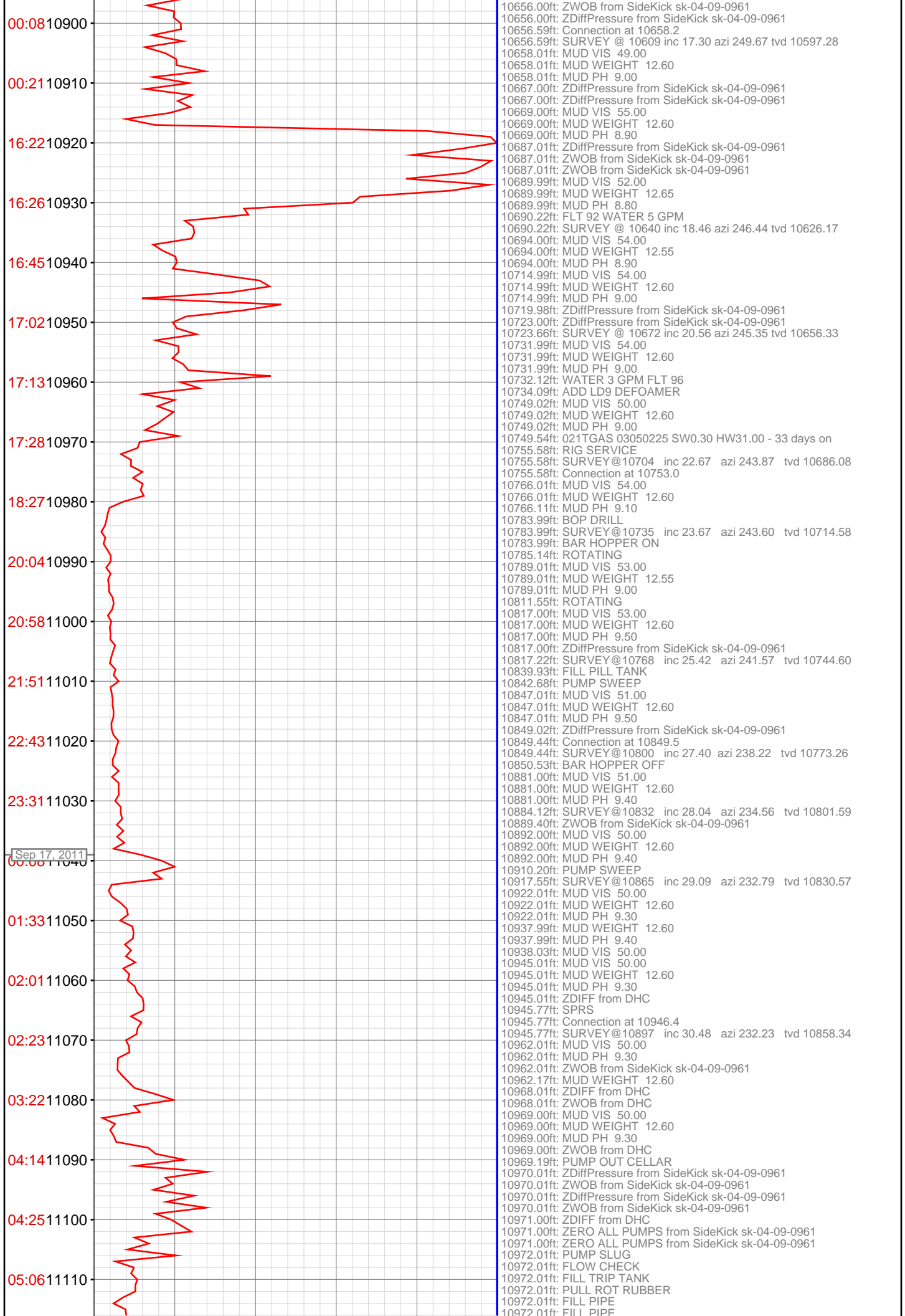


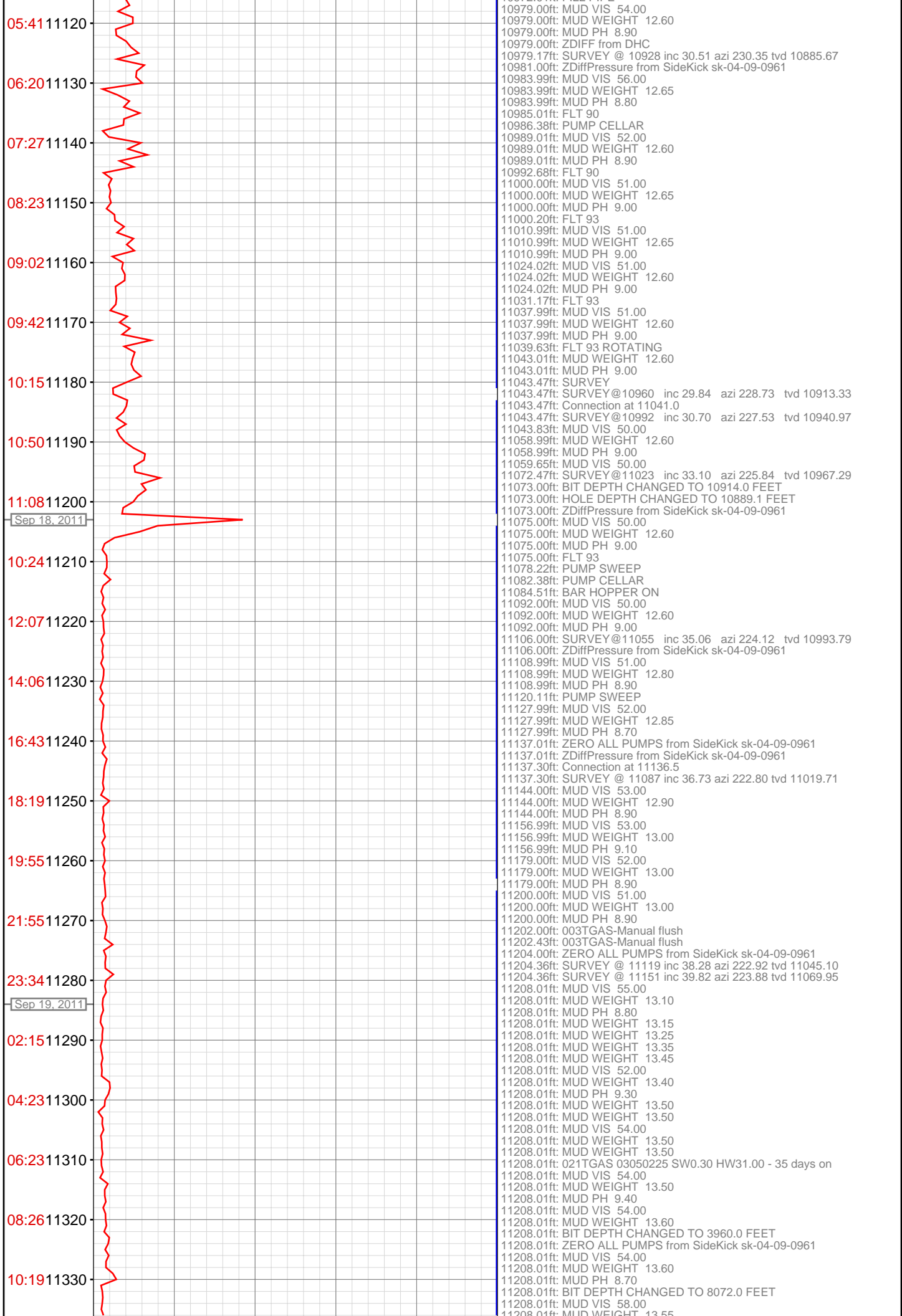


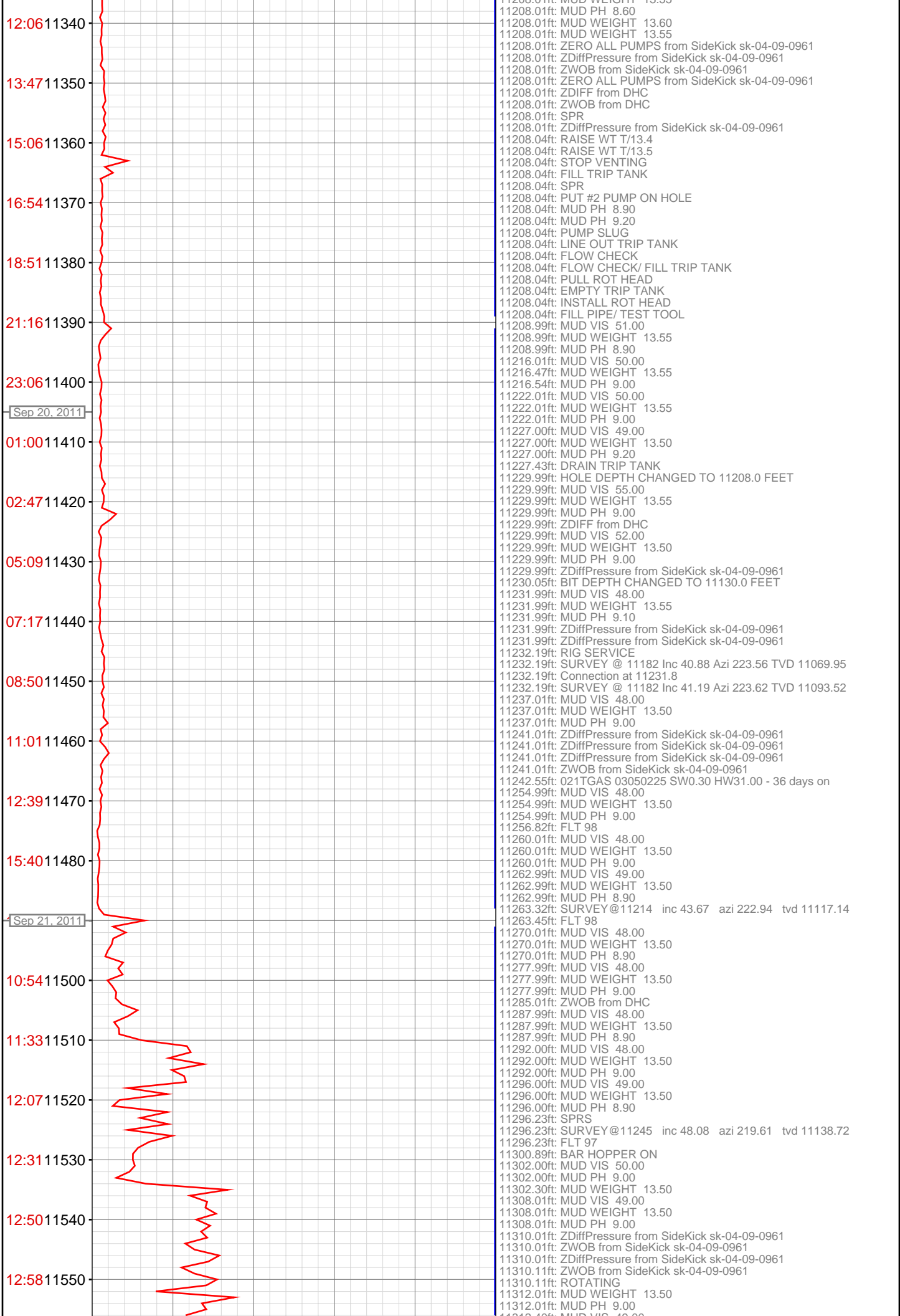


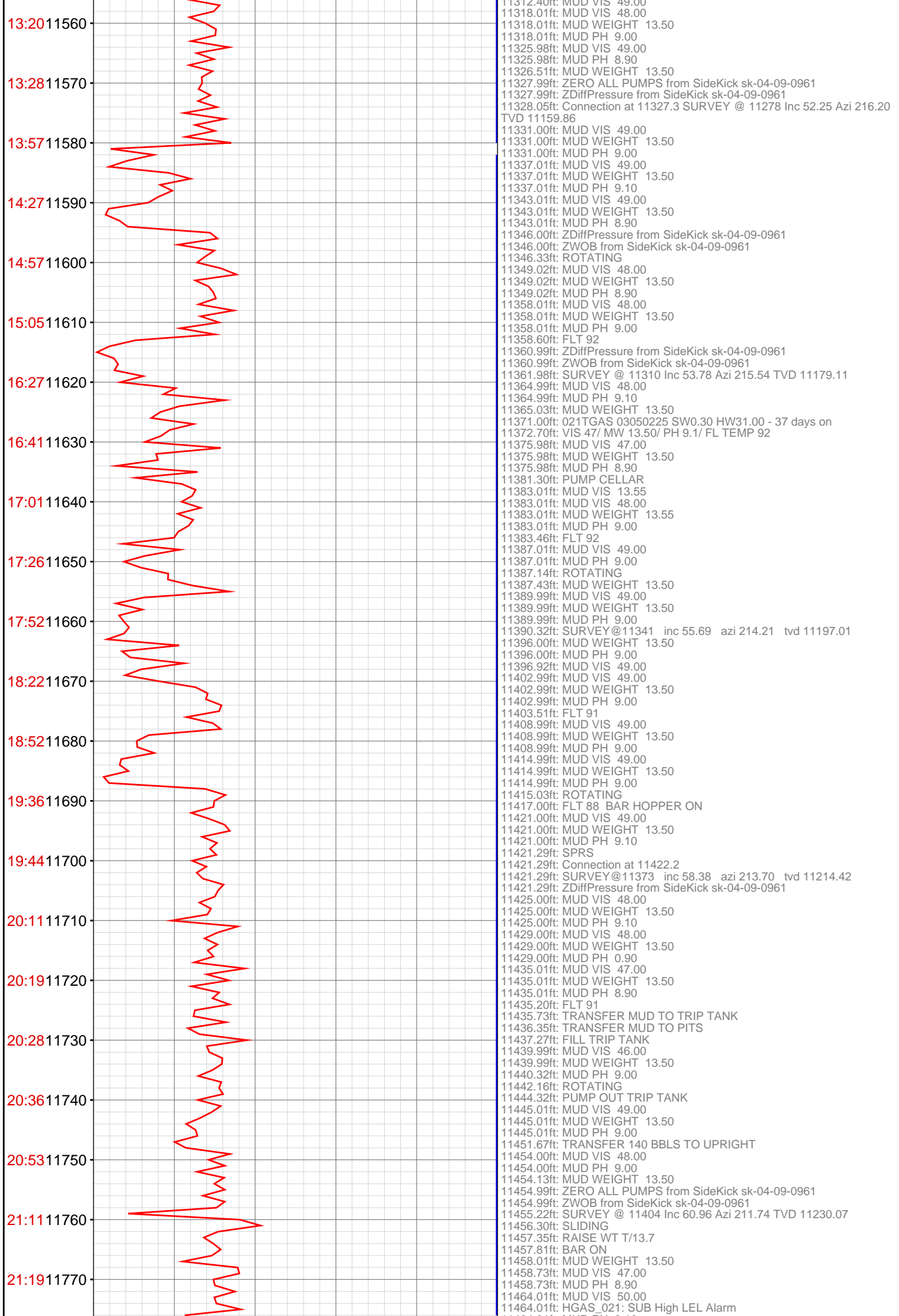


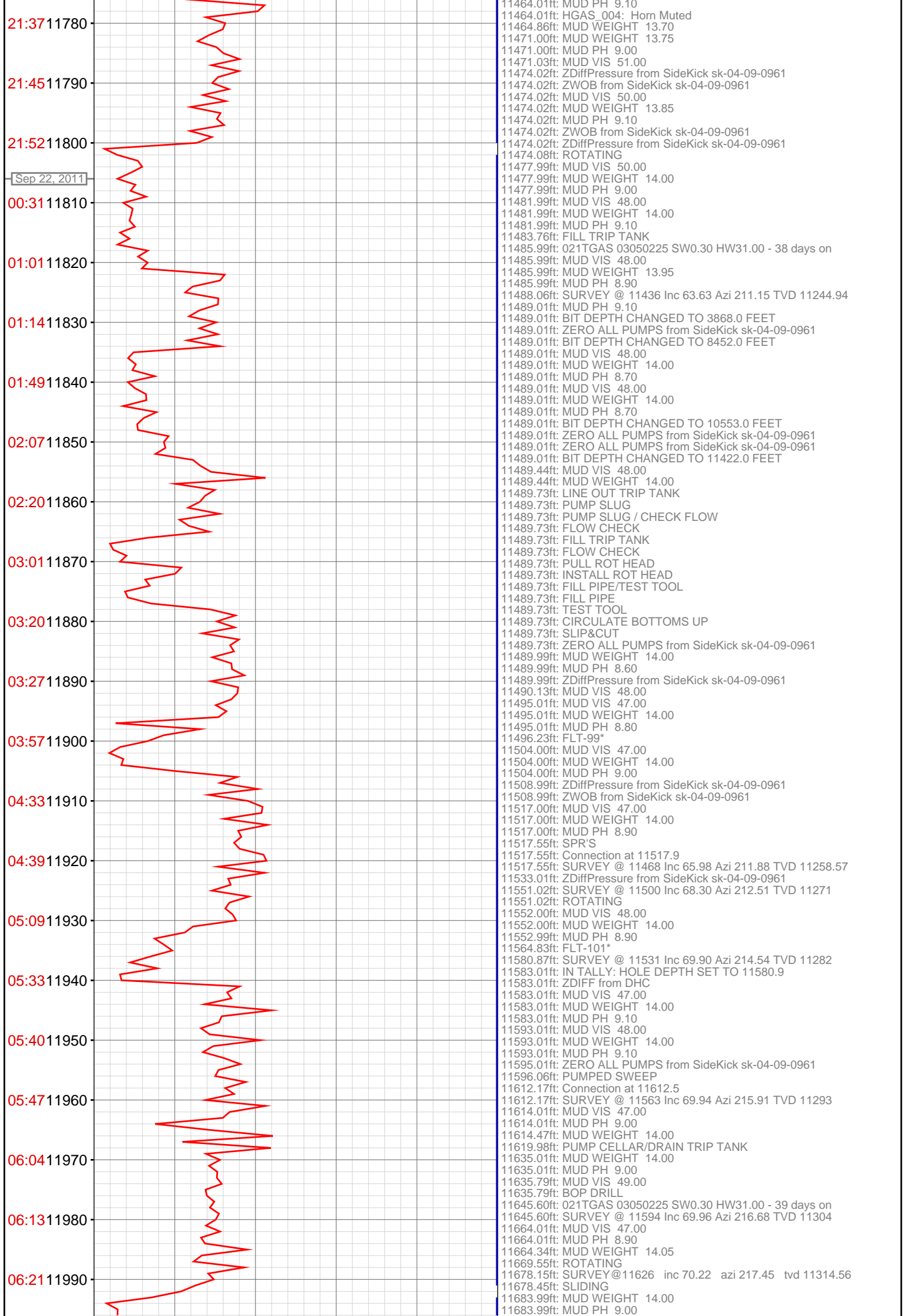


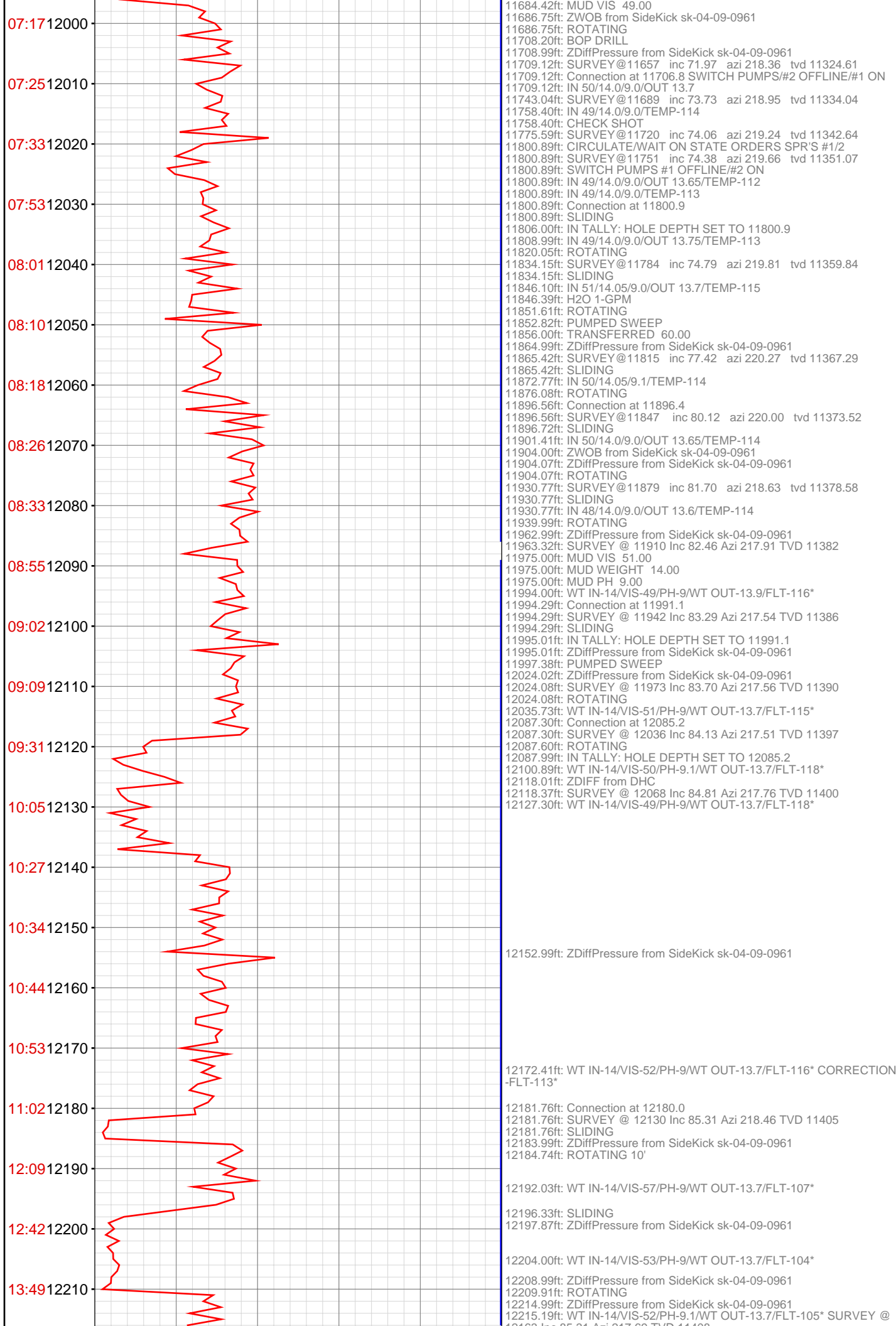












12163.1ft: Inc 85.31 Azi 217.69 TVD 11408
12215.19ft: ZWOB from SideKick sk-04-09-0961
12217.82ft: PUMPED SWEEP

12279.00ft: ZDiffPressure from SideKick sk-04-09-0961
12279.04ft: RIG SERVICE/SPR'S/CHANGE OVER TO PUMP 1
12279.04ft: Connection at 12275.4
12279.04ft: SURVEY @ 12226 Inc 83.23 Azi 216.35 TVD 11414
12279.04ft: ROTATING
12279.99ft: IN TALLY: HOLE DEPTH SET TO 12275.4

12291.44ft: WT IN-14/VIS-51/PH-9/WT OUT-13.6+/FLT-108*

12339.99ft: ZDiffPressure from SideKick sk-04-09-0961
12340.55ft: SURVEY @ 12289 Inc 84.59 Azi 216.45 TVD 11421
12340.55ft: SLIDING
12340.55ft: WT IN-14/VIS-50/PH-9/WT OUT-13.6+/FLT-108*
12341.01ft: 021TGAS 03050225 SW0.30 HW31.00 - 40 days on

12350.07ft: IN 49/14.0/9.0/OUT 13.6/TEMP-115

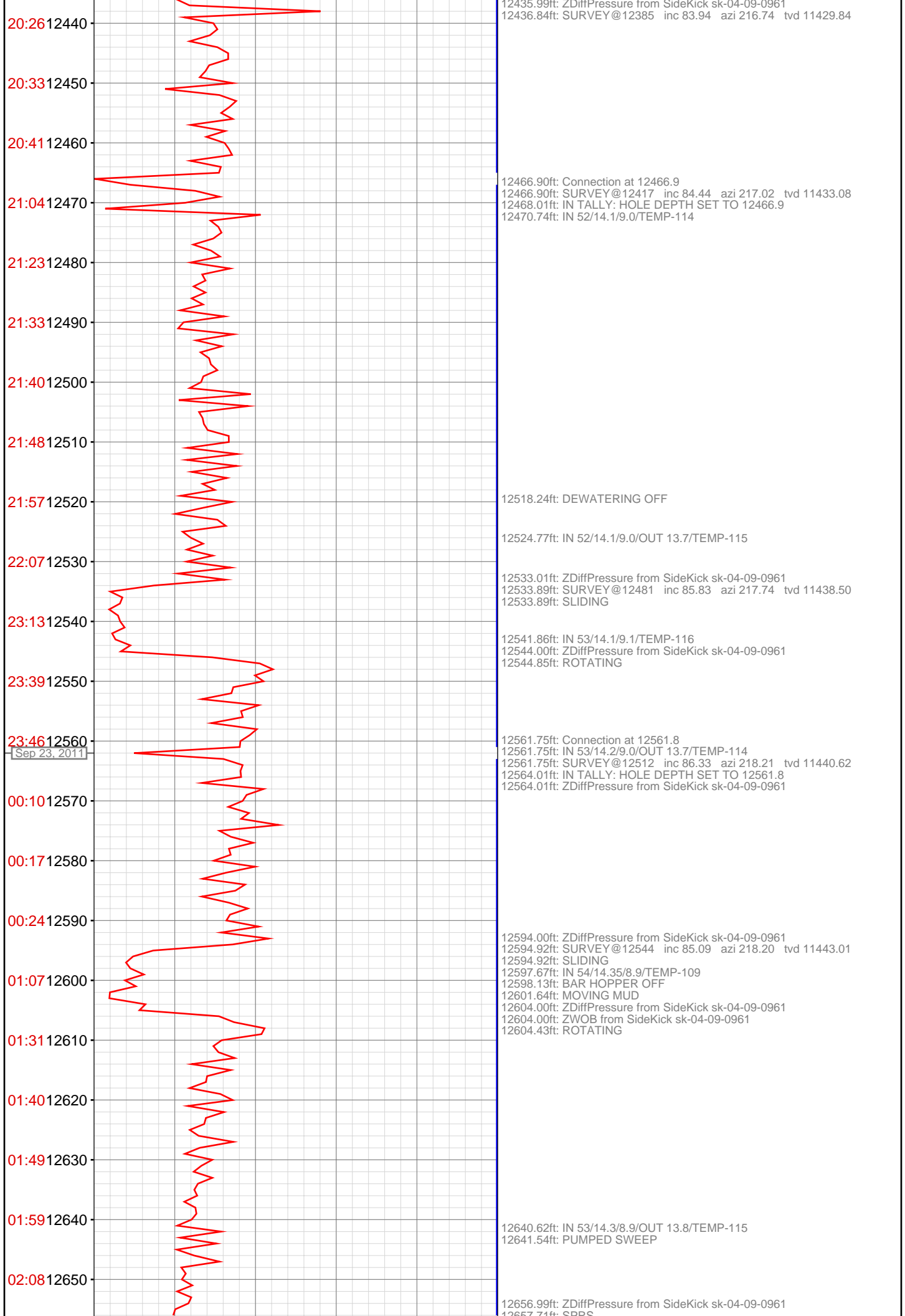
12354.99ft: ZWOB from SideKick sk-04-09-0961
12355.58ft: ROTATING

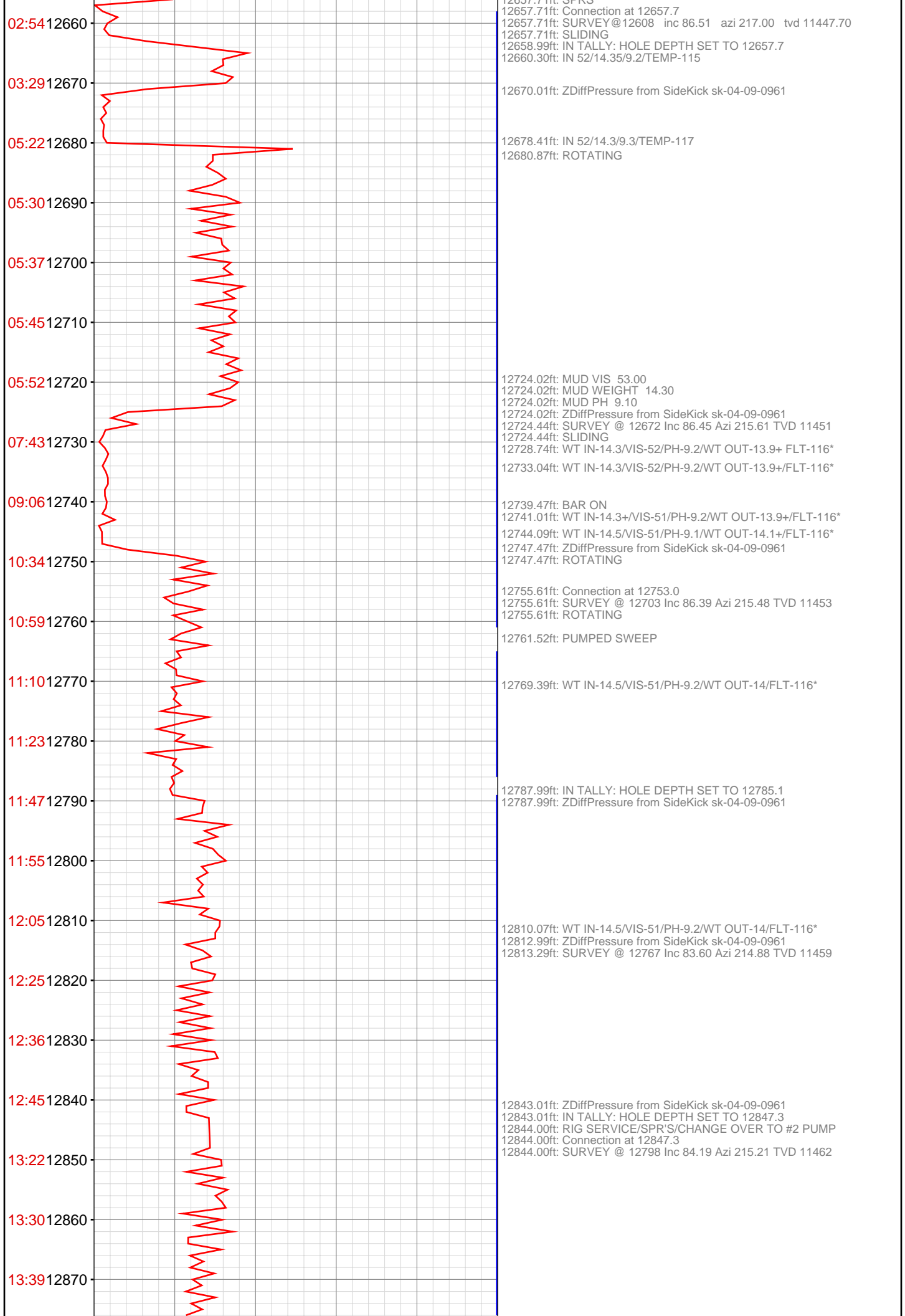
12370.11ft: Connection at 12370.1
12370.11ft: ZDiffPressure from SideKick sk-04-09-0961
12371.00ft: IN TALLY: HOLE DEPTH SET TO 12370.1
12371.33ft: SURVEY@12321 inc 85.40 azi 216.40 tvd 11423.90
12372.70ft: PUMPED SWEEP

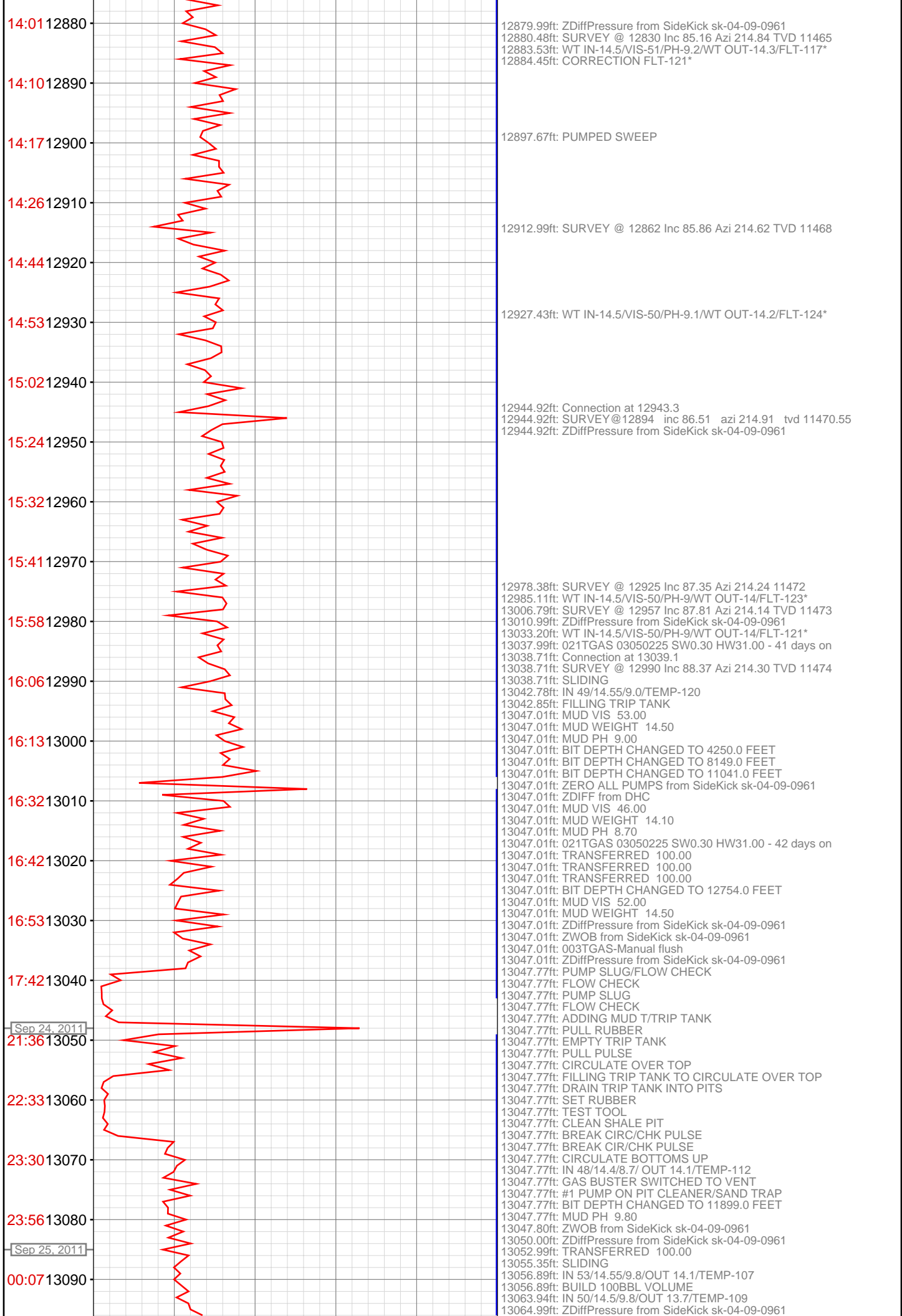
12404.99ft: TRANSFERRED 60.00
12406.76ft: CHECK SHOT

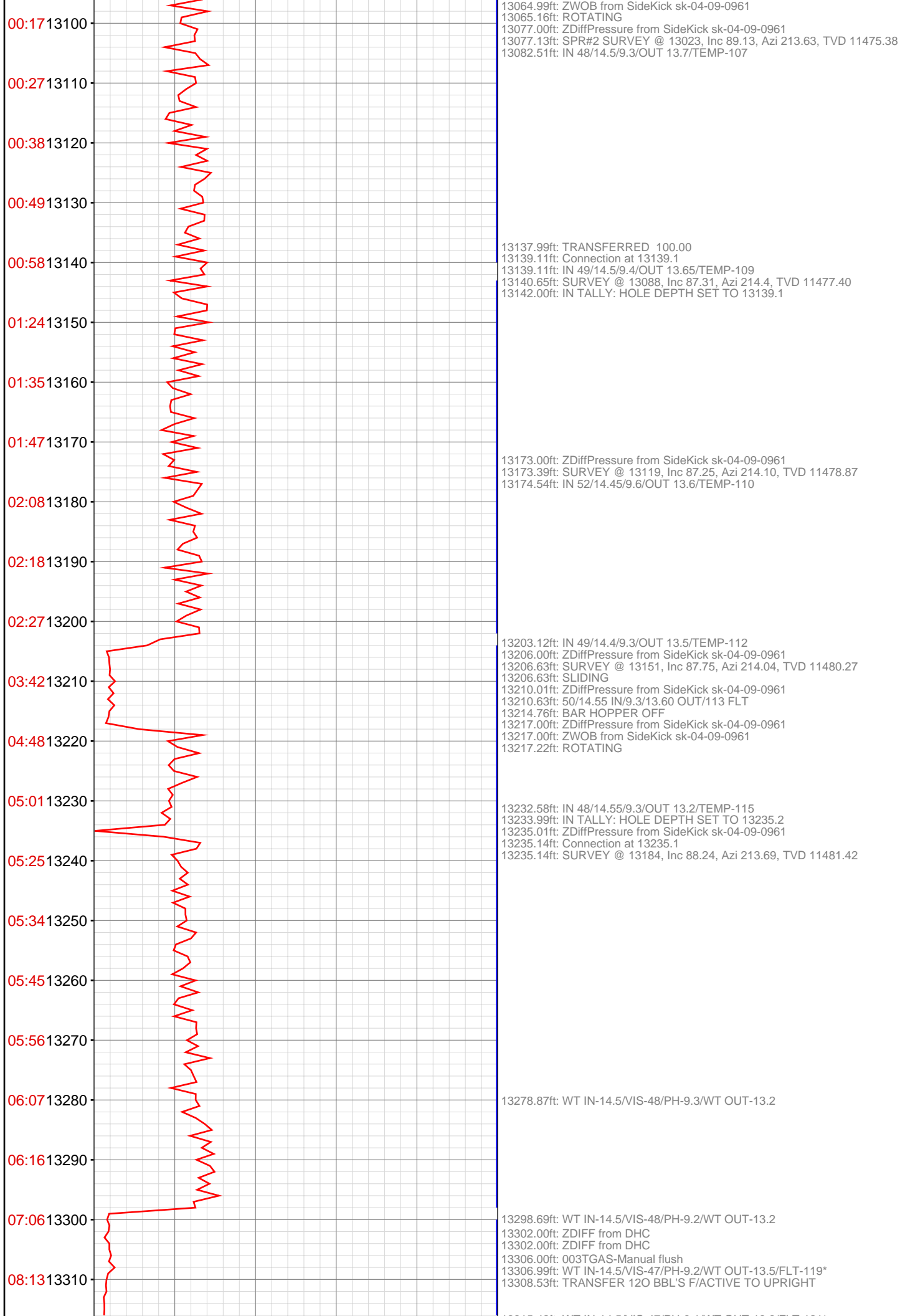
12415.35ft: START DEWATERING/BAR HOPPER ON

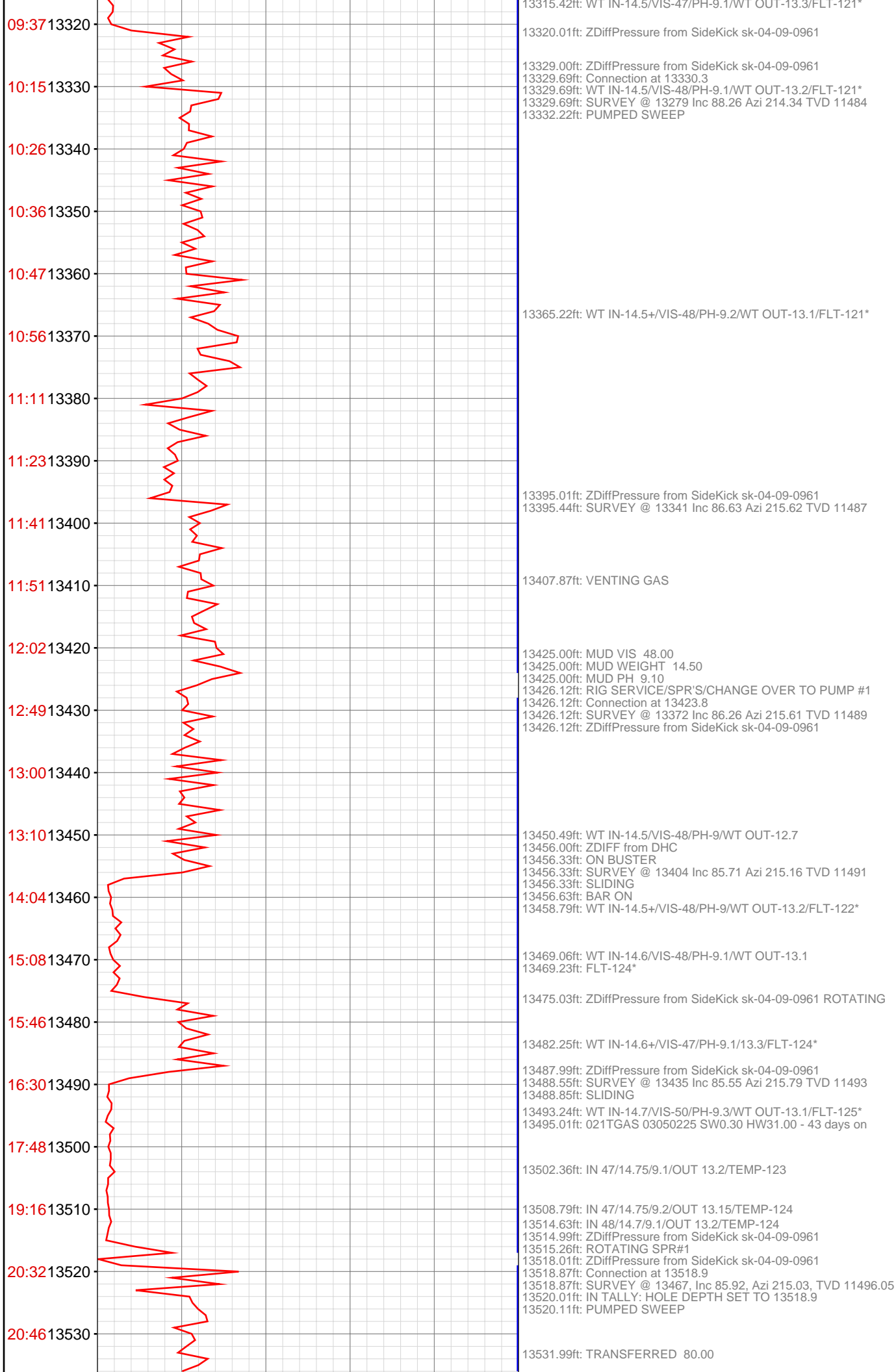
12431.33ft: IN 50/14.0/9.1/TEMP-114 PUMPED SWEEP

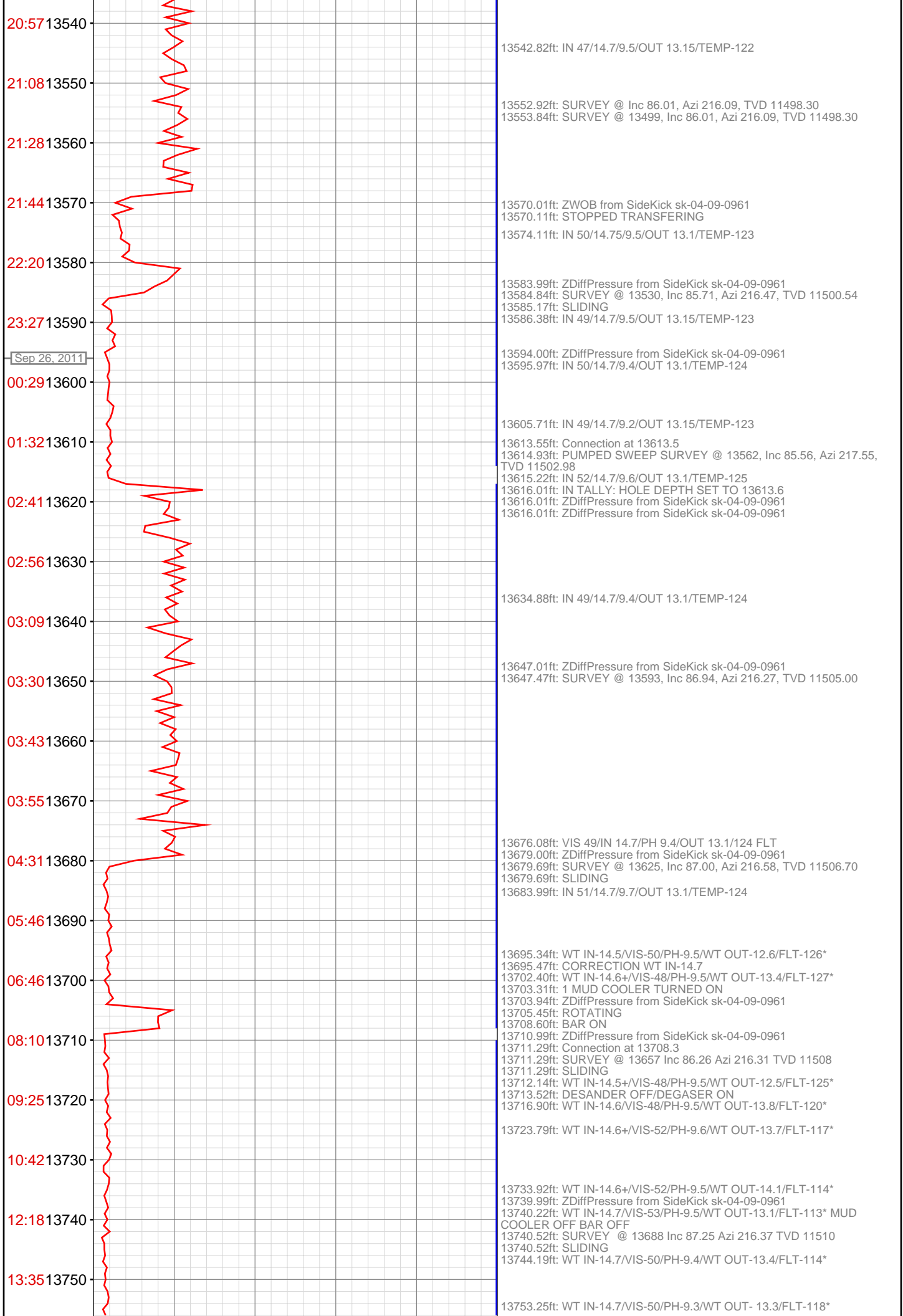












14:45 13760
15:42 13770
16:05 13780
16:19 13790
16:31 13800
17:49 13810
19:32 13820
Sep 27, 2011
15:30 13840
15:40 13850
15:52 13860
16:16 13870
16:28 13880
16:40 13890
17:57 13900
19:26 13910
20:51 13920
21:25 13930
21:50 13940
22:06 13950
22:20 13960
22:42 13970

13762.30ft: WT IN-14.7/VIS-50/PH-9.4/WT OUT-13.5/FLT-121*

13769.00ft: ZDiffPressure from SideKick sk-04-09-0961
13769.23ft: SLIDING
13773.00ft: ZDiffPressure from SideKick sk-04-09-0961
13773.98ft: SURVEY @ 13720 Inc 88.33 Azi 217.03 TVD 11511

13781.10ft: WT IN-14.7/VIS-49/PH-9.4/WT OUT-13.5/FLT-122*
13804.99ft: MUD VIS 48.00
13804.99ft: MUD WEIGHT 14.75
13804.99ft: MUD PH 9.40
13804.99ft: MUD WEIGHT 13.70
13804.99ft: 021TGAS 03050225 SW0.30 HW31.00 - 44 days on
13804.99ft: ZDiffPressure from SideKick sk-04-09-0961
13804.99ft: ZDiffPressure from SideKick sk-04-09-0961
13805.87ft: RIG SERVICE /SPR'S/CHANGE OVER TO #2 PUMP
13805.87ft: Connection at 13804.1
13805.87ft: SURVEY @ 13753 Inc 88.77 Azi 219.05 TVD 11512
13805.87ft: SLIDING
13813.55ft: IN 46/14.6/9.2/OUT 14.1/TEMP-123
13814.01ft: TRANSFERRED 60.00
13816.93ft: IN 47/14.65/9.2/OUT 13.1/TEMP-123
13823.69ft: IN 47/14.65/9.1/OUT 13.05/TEMP-124
13827.00ft: ZWOB from SideKick sk-04-09-0961
13827.00ft: ZDiffPressure from SideKick sk-04-09-0961
13827.99ft: ZDiffPressure from SideKick sk-04-09-0961
13828.45ft: ROTATING

13829.00ft: BIT DEPTH CHANGED TO 3069.0 FEET
13829.00ft: BIT DEPTH CHANGED TO 10561.0 FEET
13829.00ft: ZERO ALL PUMPS from SideKick sk-04-09-0961
13829.00ft: BIT DEPTH CHANGED TO 13613.0 FEET
13829.00ft: ZDiffPressure from SideKick sk-04-09-0961
13829.00ft: ZDiffPressure from SideKick sk-04-09-0961
13829.00ft: ZWOB from SideKick sk-04-09-0961
13829.00ft: ZERO ALL PUMPS from SideKick sk-04-09-0961
13829.20ft: BUSTER ON VENT
13829.20ft: FILLING TRIP TANK
13829.20ft: PUMP SLUG
13829.20ft: FLOW CHECK
13829.20ft: LAY DWN SINGLE
13829.20ft: PUMP SLUG#2 FLOW CHECK
13829.20ft: FLOW CHECK/ADING MUD T/TRIP TANK
13829.20ft: P/U SINGLE
13829.20ft: PULL RUBBER
13829.20ft: FUNCTION ANNULAR
13829.20ft: SET PULSE
13829.20ft: CHECK PULSE
13829.20ft: LAY DWN SINGLE
13829.20ft: SET RUBBER
13829.20ft: FILL/CHK PULSE
13829.20ft: FIL:L/CHK PULSE
13829.20ft: TOGGLE TOOL
13829.20ft: CIRCULATE BOTTOMS UP
13829.20ft: CK C-O-M

13835.01ft: MUD VIS 45.00
13835.01ft: MUD WEIGHT 14.65
13835.01ft: MUD PH 8.70
13835.86ft: SURVEY @ 13783 Inc 88.92 Azi 218.83 TVD 11513
13868.01ft: MUD VIS 48.00
13868.01ft: MUD WEIGHT 14.65
13868.01ft: ZDiffPressure from SideKick sk-04-09-0961
13868.41ft: MUD PH 8.70
13868.41ft: SURVEY @ 13815 Inc 90.25 Azi 219.11 TVD 11513
13868.41ft: WT OUT-11.7

13899.02ft: ZDiffPressure from SideKick sk-04-09-0961
13899.02ft: 021TGAS 03050225 SW0.30 HW31.00 - 45 days on
13899.08ft: Connection at 13897.6
13899.08ft: SURVEY @ 13846 Inc 90.00 Azi 219.80 TVD 11513
13899.08ft: WT IN-14.6/VIS-46/PH-9/WT OUT-12.2+
13901.74ft: IN 49/14.6/8.8/OUT 12.45/TEMP-114
13906.50ft: IN 50/14.7/9.0/OUT 12.5/TEMP-115

13915.49ft: IN 48/14.75/9.0/OUT 12.45/TEMP-116

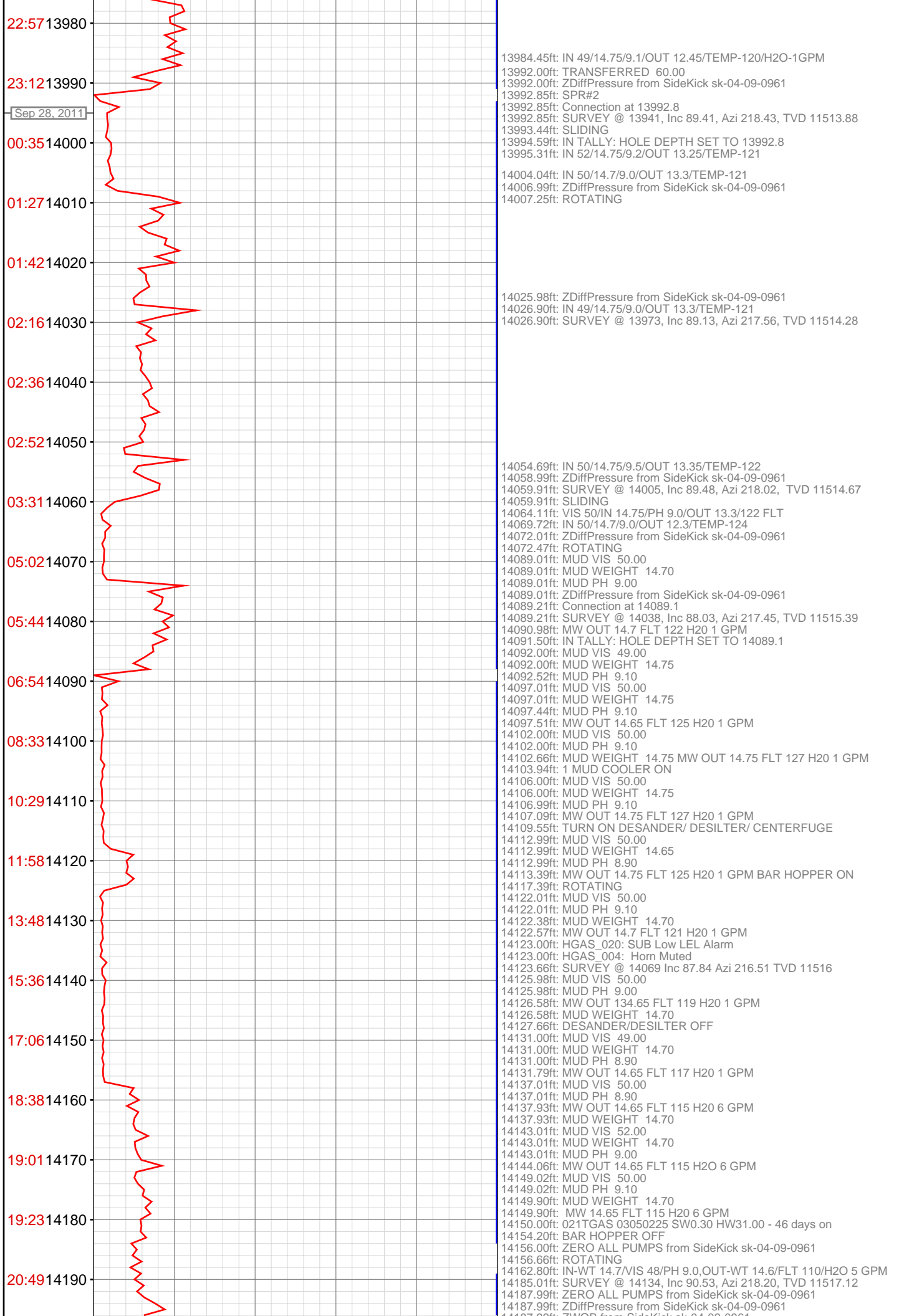
13921.00ft: ZWOB from SideKick sk-04-09-0961
13921.00ft: ZDiffPressure from SideKick sk-04-09-0961
13921.85ft: ROTATING
13921.85ft: IN 48/14.7/9.2/OUT 12.4/TEMP-119

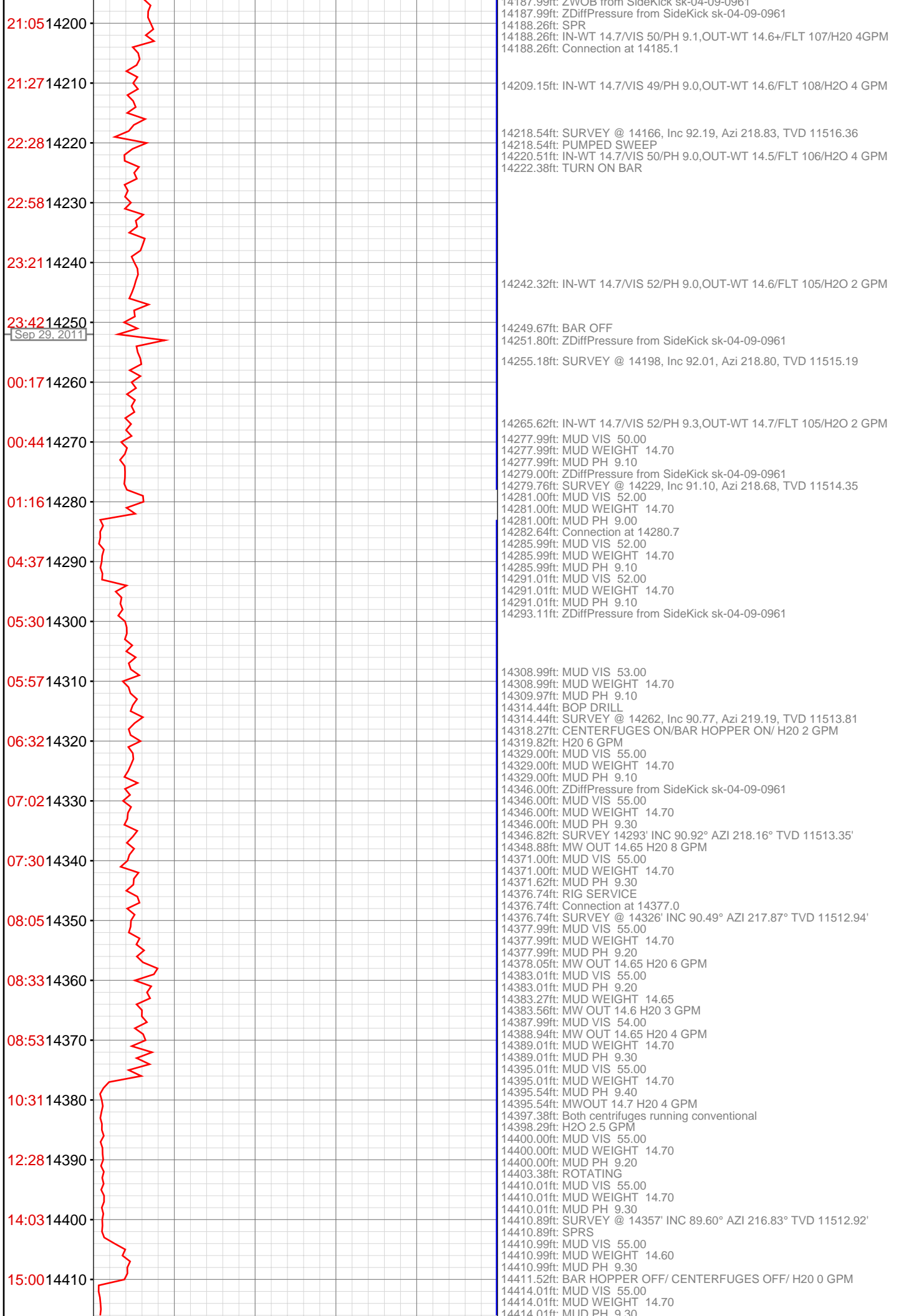
13931.37ft: SURVEY @ 13878, Inc 89.10, Azi 218.82, TVD 11513.42

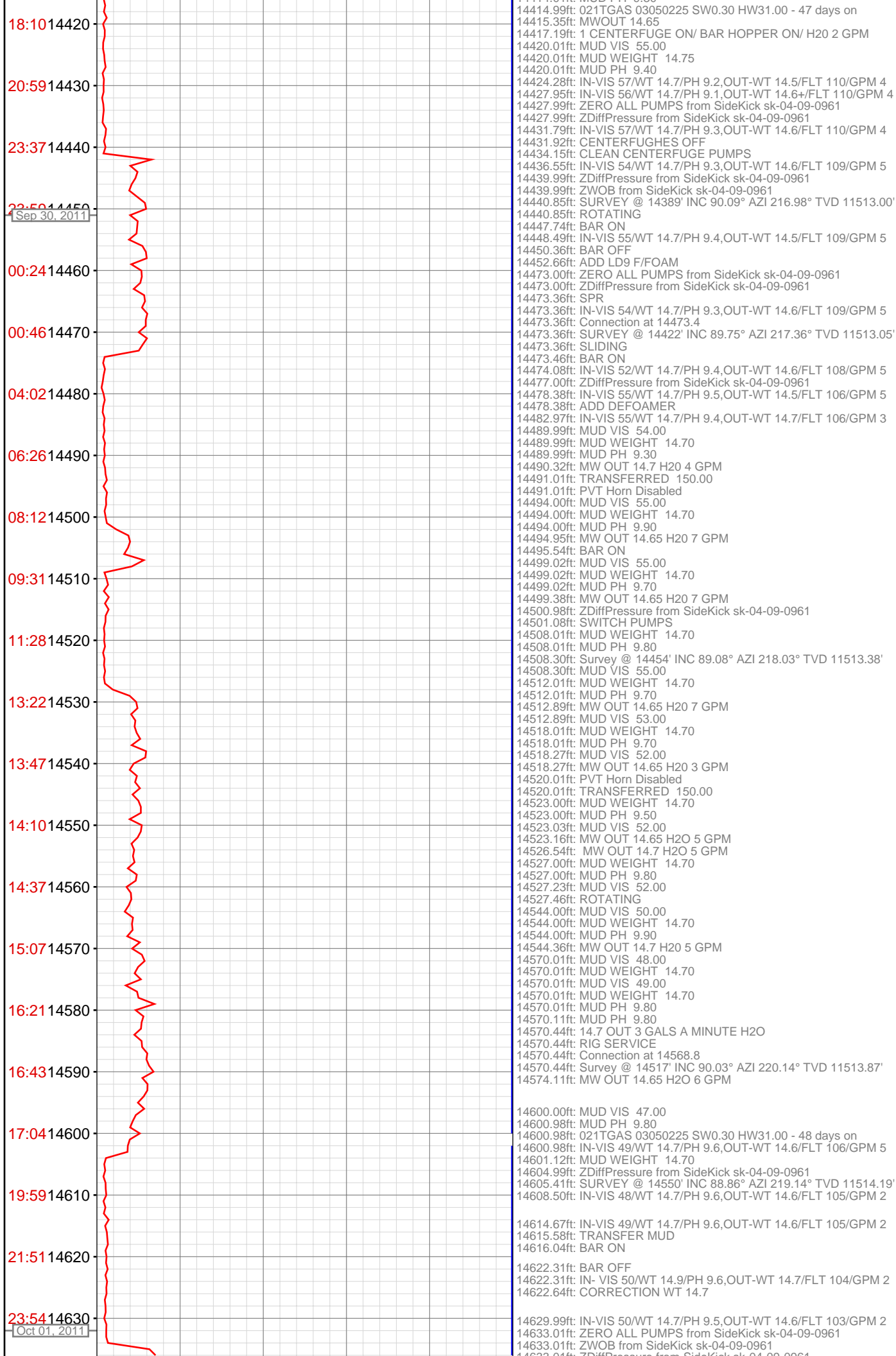
13948.23ft: IN 48/14.7/9.0/OUT 12.45/TEMP-120

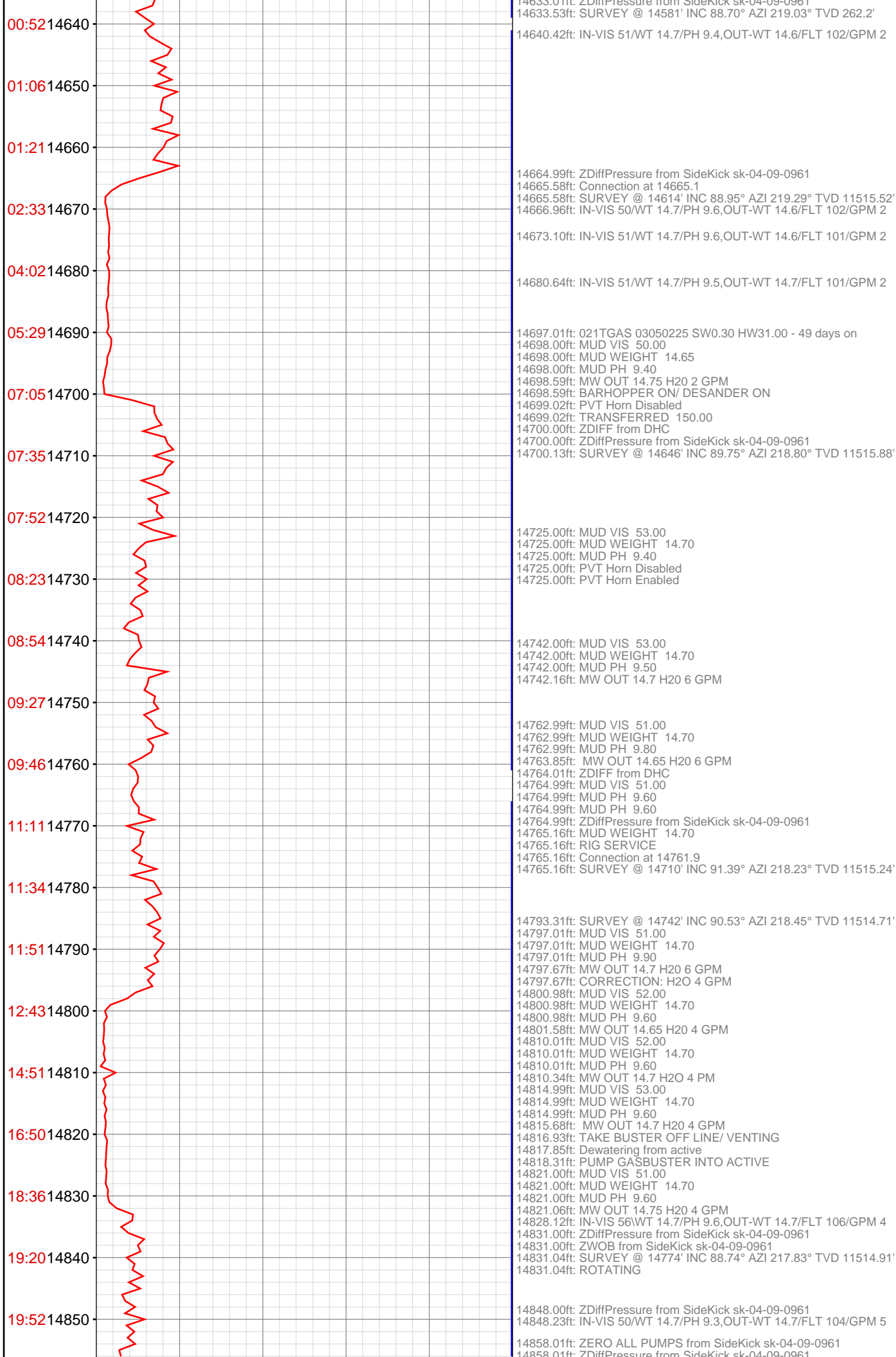
13964.01ft: ZDiffPressure from SideKick sk-04-09-0961
13964.21ft: SURVEY @ 13910, Inc 89.91, Azi 218.89, TVD 11513.69

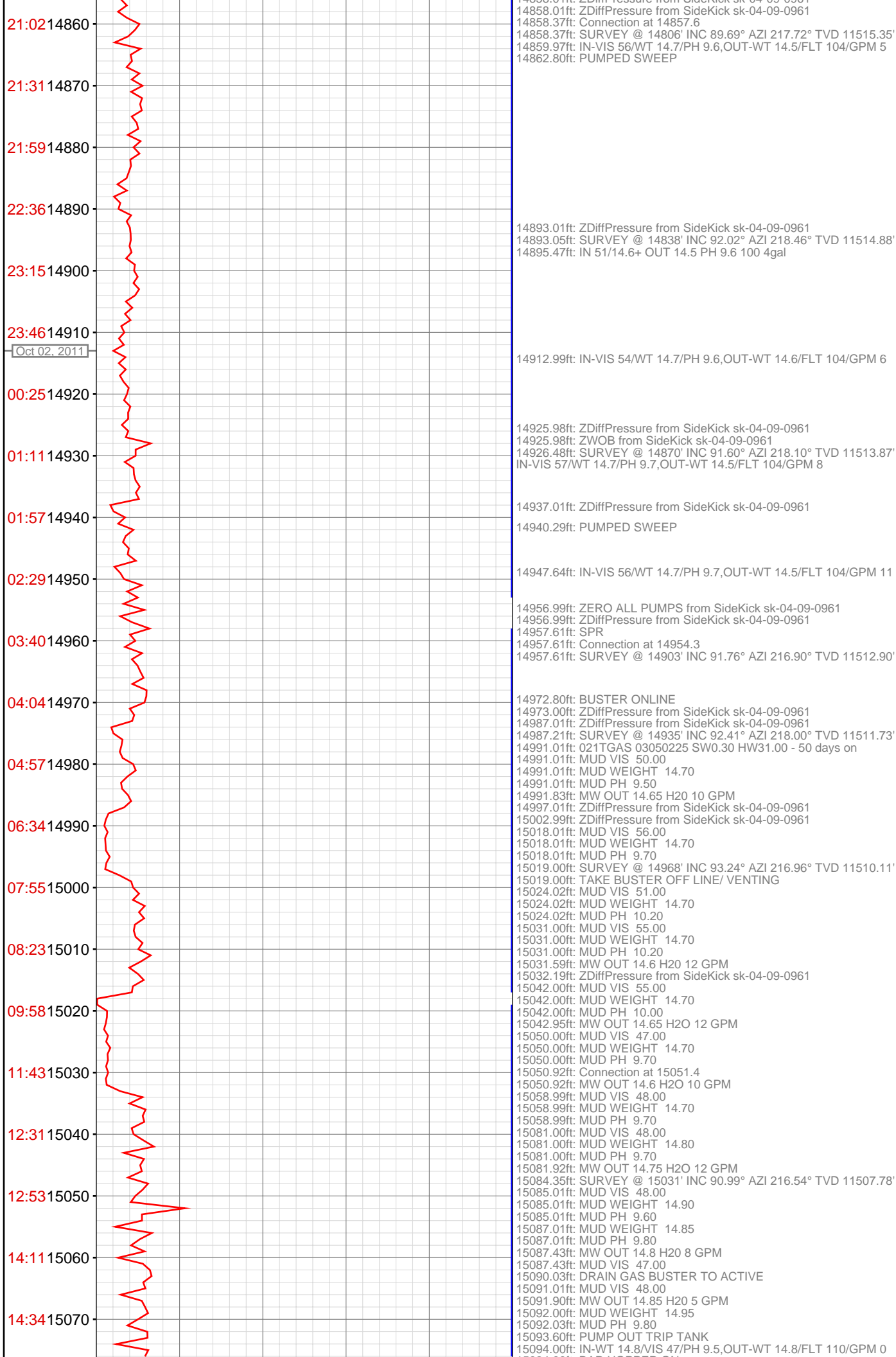
13974.08ft: PUMPED SWEEP

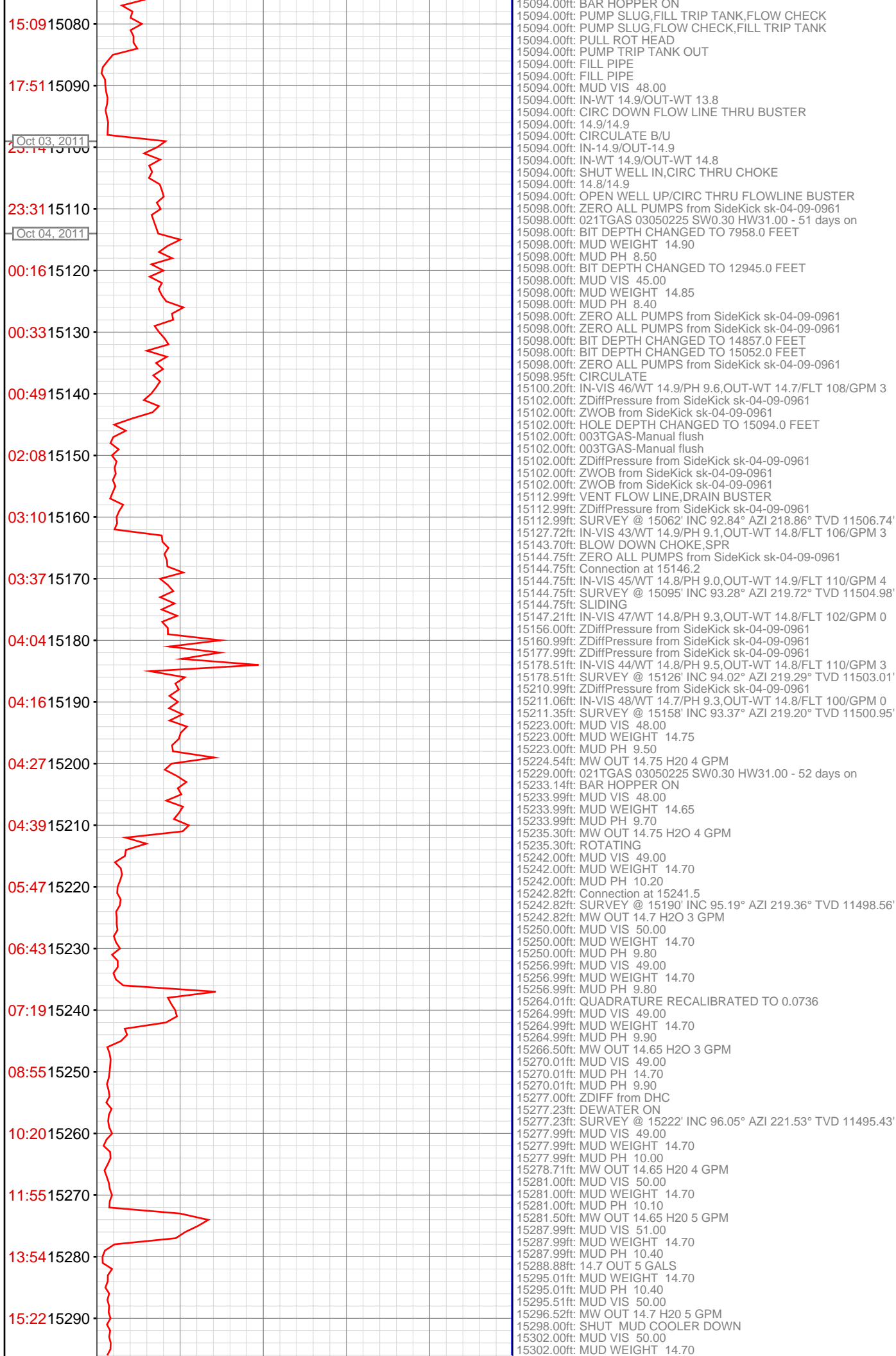


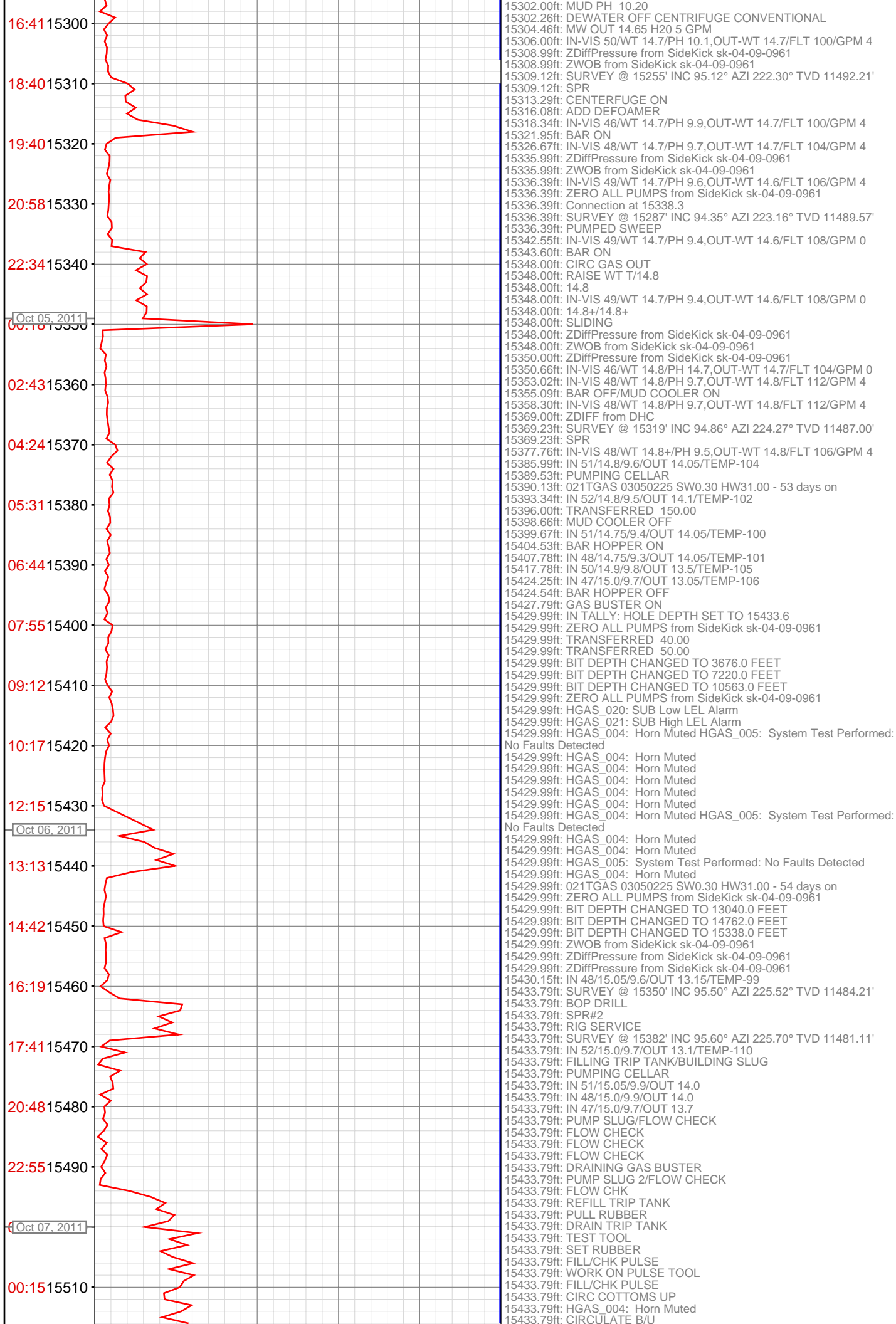


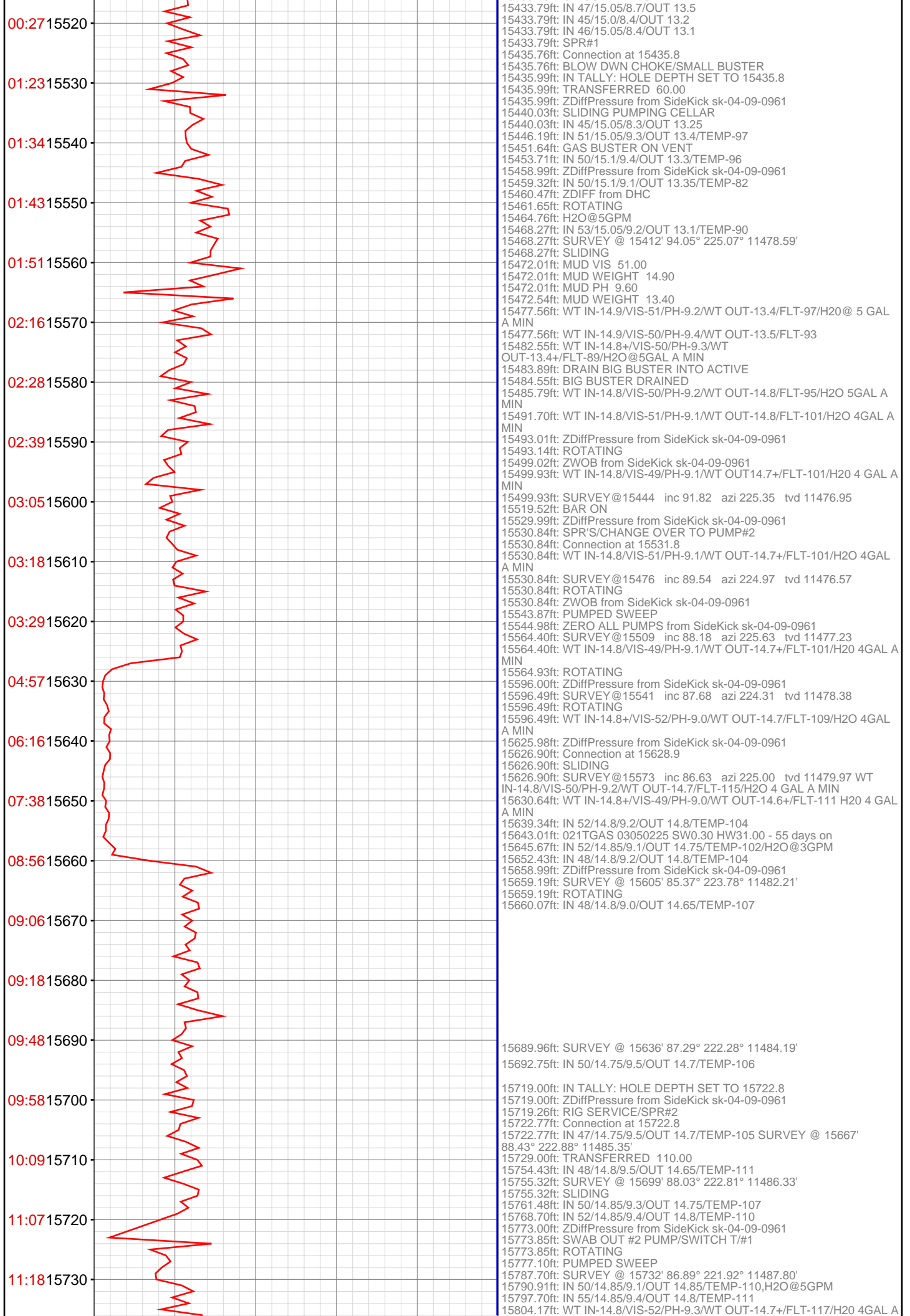














MIN

15808.73ft: WT IN-14.7+/VIS-50/PH-9.3/WT OUT-14.6+/FLT-115/H2O 4 GPM

15809.19ft: BAR ON

15810.01ft: ZDiffPressure from SideKick sk-04-09-0961

15810.01ft: ZWOB from SideKick sk-04-09-0961

15810.07ft: ROTATING

15818.01ft: ZDiffPressure from SideKick sk-04-09-0961

15818.01ft: ZWOB from SideKick sk-04-09-0961

15818.31ft: Connection at 15819.3

15818.31ft: SURVEY@15764 inc 87.01 azi 220.95 tvd 11489.50

15818.31ft: ROTATING

15818.54ft: PUMPED SWEEP

15820.51ft: WT IN-14.8+/VIS-52/PH-9.6/WT OUT-14.6+/FLT-120/H2O@4GPM

15850.00ft: ZDiffPressure from SideKick sk-04-09-0961

15850.39ft: SURVEY@15795 inc 88.95 azi 220.07 tvd 11490.59

15850.39ft: ROTATING

15855.97ft: WT IN-14.8+/VIS-53/PH-9.6/WT OUT-14.8/FLT-119/H2O@4GPM

15881.00ft: ZDiffPressure from SideKick sk-04-09-0961

15881.89ft: WT IN-14.9/VIS-51/PH-9.8/WT OUT-14.8/FLT-120/H2O@4 GPM

15881.89ft: SURVEY@15827 inc 88.58 azi 218.05 tvd 11491.28

SLIDING

15886.45ft: WT IN-14.9/VIS-50/PH-9.5/WT OUT-14.7/FLT-114/H2O@ 4 GPM

15891.18ft: WT IN-14.9/VIS-51/PH-9.8/WT OUT-14.7/FLT-116/H2O 4 GPM

15896.75ft: WT IN-14.9+/VIS-49/PH-9.3/WT OUT-14.7/FLT-117/H2O-4 GPM

15901.02ft: ROTATING

15904.27ft: WT IN-14.9+/VIS-51/PH-9.4/WT OUT-14.7+/FLT-114/H2O 4 GPM

15912.01ft: ZDiffPressure from SideKick sk-04-09-0961

15912.37ft: SPR'S/CHANGE OVER TO PUMP#2

15912.37ft: Connection at 15914.6

15912.37ft: ROTATING

15912.37ft: SURVEY@15859 inc 89.32 azi 219.46 tvd 11491.87

15915.09ft: WT IN-14.9/VIS-47/PH-9.5/WT OUT-14.8/FLT-116/H2O 4 GPM

15931.00ft: ZDiffPressure from SideKick sk-04-09-0961

15944.00ft: ZDiffPressure from SideKick sk-04-09-0961

15944.52ft: WT IN-14.8/VIS-50/PH-9.6/WT OUT-14.7/FLT-120/H2O@ 4 GPM

15944.52ft: BAR ON

15944.52ft: SLIDING

15948.66ft: WT IN-14.9/VIS-47/PH-9.6/WT OUT-14.7/FLT-118/H2O @ 4 GPM

15953.15ft: GAS BUSTER ONLINE

15954.00ft: ZDiffPressure from SideKick sk-04-09-0961

15954.10ft: ROTATING

15961.32ft: IN 49/14.9/9.7/OUT 14.75/TEMP-116

15977.00ft: 021TGAS 03050225 SW0.30 HW31.00 - 56 days on

15977.20ft: SURVEY @ 15923' 92.69° 218.44° 11490.75'

15978.68ft: SLIDING

15979.56ft: IN 51/14.8/9.7/OUT 14.8/TEMP-116/BAR HOPPER OFF

15981.04ft: DESANDER/DESILTER ON

15984.58ft: IN 49/14.9/9.3/OUT 14.75/TEMP-114

15992.22ft: IN 49/14.8/9.2/OUT 14.75/TEMP-115

15997.80ft: IN 49/14.9/9.2/OUT 14.9/TEMP-116

16000.00ft: ZDiffPressure from SideKick sk-04-09-0961

16000.76ft: ROTATING

16006.00ft: IN TALLY: HOLE DEPTH SET TO 16010.6

16006.99ft: ZDiffPressure from SideKick sk-04-09-0961

16010.60ft: RIG SERVICE/SPRS

16010.60ft: Connection at 16010.6

16010.60ft: SURVEY @ 15955' 91.43° 218.25° 11489.60'

16014.21ft: IN 52/14.8/9.0/OUT 14.75/TEMP-114

16020.08ft: PUMPED SWEEP

16041.01ft: IN 53/14.8/9.3/OUT 14.7/TEMP-102

16055.12ft: GAS BUSTER VENTED

16059.38ft: GAS BUSTER BACK ONLINE

16073.69ft: IN 54/14.85/9.1/OUT 14.8/TEMP-106

16074.57ft: SURVEY @ 16018' 90.49° 219.25° 11488.54'

16089.01ft: ZDiffPressure from SideKick sk-04-09-0961

16089.57ft: CHECK SHOT

16089.57ft: IN 56/14.85/9.0/OUT 14.7/TEMP-101/BAR HOPPER ON

16089.57ft: SLIDING

16094.00ft: H2O@8GPM

16103.71ft: IN 52/14.9/9.7/OUT 14.8/TEMP-107

16104.99ft: IN TALLY: HOLE DEPTH SET TO 16106.3

16106.00ft: ZDiffPressure from SideKick sk-04-09-0961

16106.30ft: Connection at 16106.3 SWITCH PUMPS #1 ONLINE

16106.30ft: SURVEY @ 16051' 92.16° 216.60° 11487.78'

16106.53ft: SLIDING

16109.19ft: PUMPING CELLAR

16110.20ft: IN 53/14.9/9.8/OUT 14.8/TEMP-108

16118.01ft: BAR OFF/H2O@5 GPM

16118.90ft: WT IN-14.8/VIS-50/PH-9.1/WT OUT-14.6/FLT-107

16121.56ft: TRANSFER OVER 200 BBL TO UPRIGHT

16124.18ft: BAR ON

16125.95ft: WT IN-14.8+/VIS-50/PH-9.1/WT OUT-14.8/FLT-109/H2O@ 5 GPM

16129.99ft: ZDiffPressure from SideKick sk-04-09-0961

16129.99ft: ZWOB from SideKick sk-04-09-0961

16130.97ft: ROTATING

16134.48ft: WT IN-14.8/VIS-51/PH-9/WT OUT-14.8/FLT-110/H2O@ 5 GPM

16139.08ft: FILL PILL TANK

16139.08ft: SURVEY@16083 inc 94.00 azi 220.33 tvd 11486.06

SLIDING

16143.47ft: WT IN-14.9/VIS-52/PH-8.9/WT OUT-14.8/FLT-110/H2O@ 4 GPM

16150.69ft: WT IN-14.9/VIS-53/PH-9.5/WT OUT-14.8/FLT-110/H2O@5 GPM

16157.45ft: WT IN-14.9+/VIS-51/PH-9.2/WT OUT-14.9/FLT-111/H2O@5 GPM

16160.86ft: ROTATING

16165.72ft: H2O@ 4 GPM

16171.00ft: WT IN-14.8/VIS-52/PH-9.0/WT OUT-14.9/FLT-113/H2O@ 4 GPM

16171.00ft: ROTATING SURVEY@16115 inc 91.02 azi 220.36 tvd 11484.66

16171.00ft: ZDiffPressure from SideKick sk-04-09-0961

16172.18ft: PUMPED SWEEP

16180.71ft: WT IN-14.9/VIS-53/PH-9.4/WT OUT-15.0/FLT-113/H2O@ 4 GPM

16200.98ft: ZDiffPressure from SideKick sk-04-09-0961

