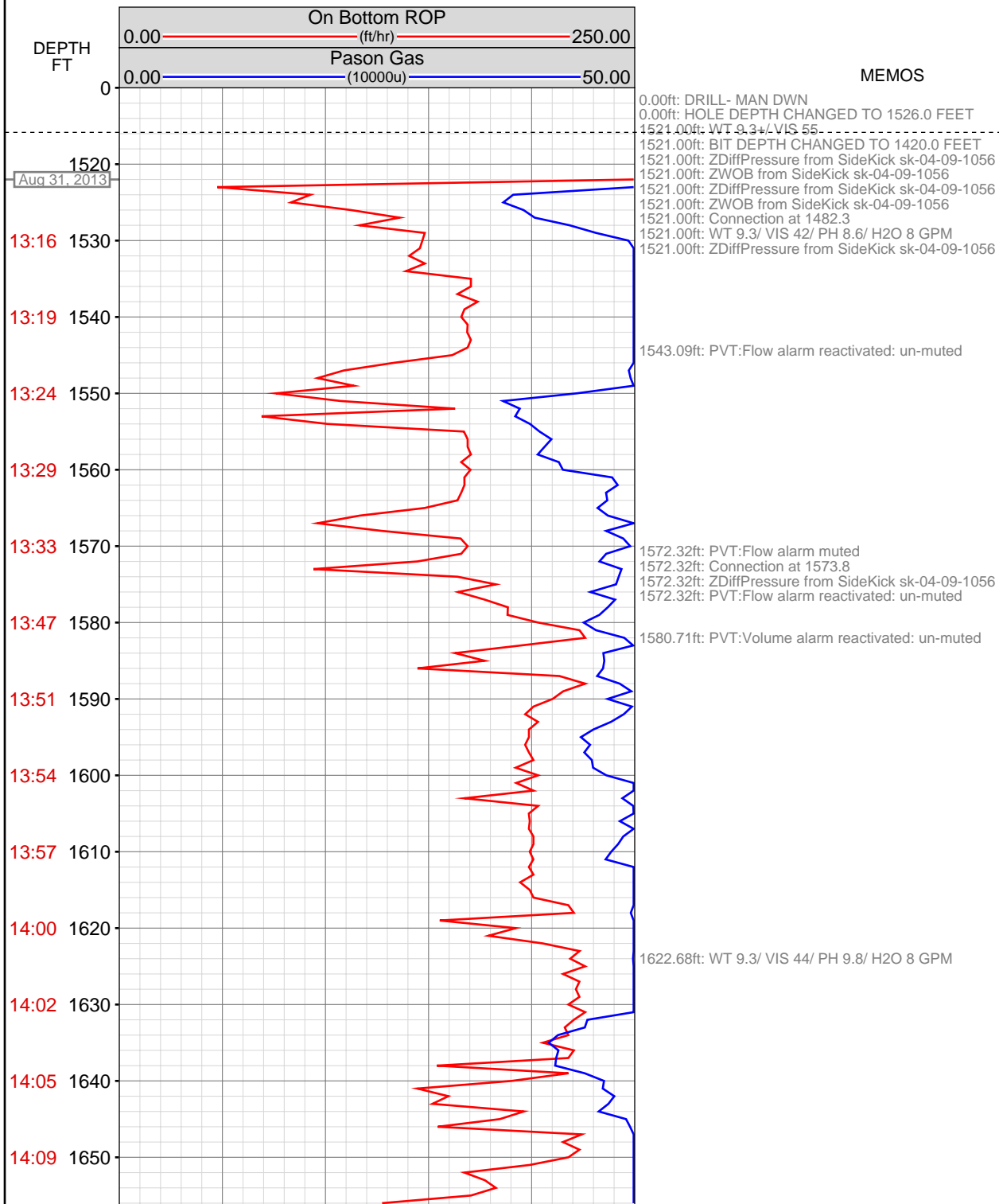
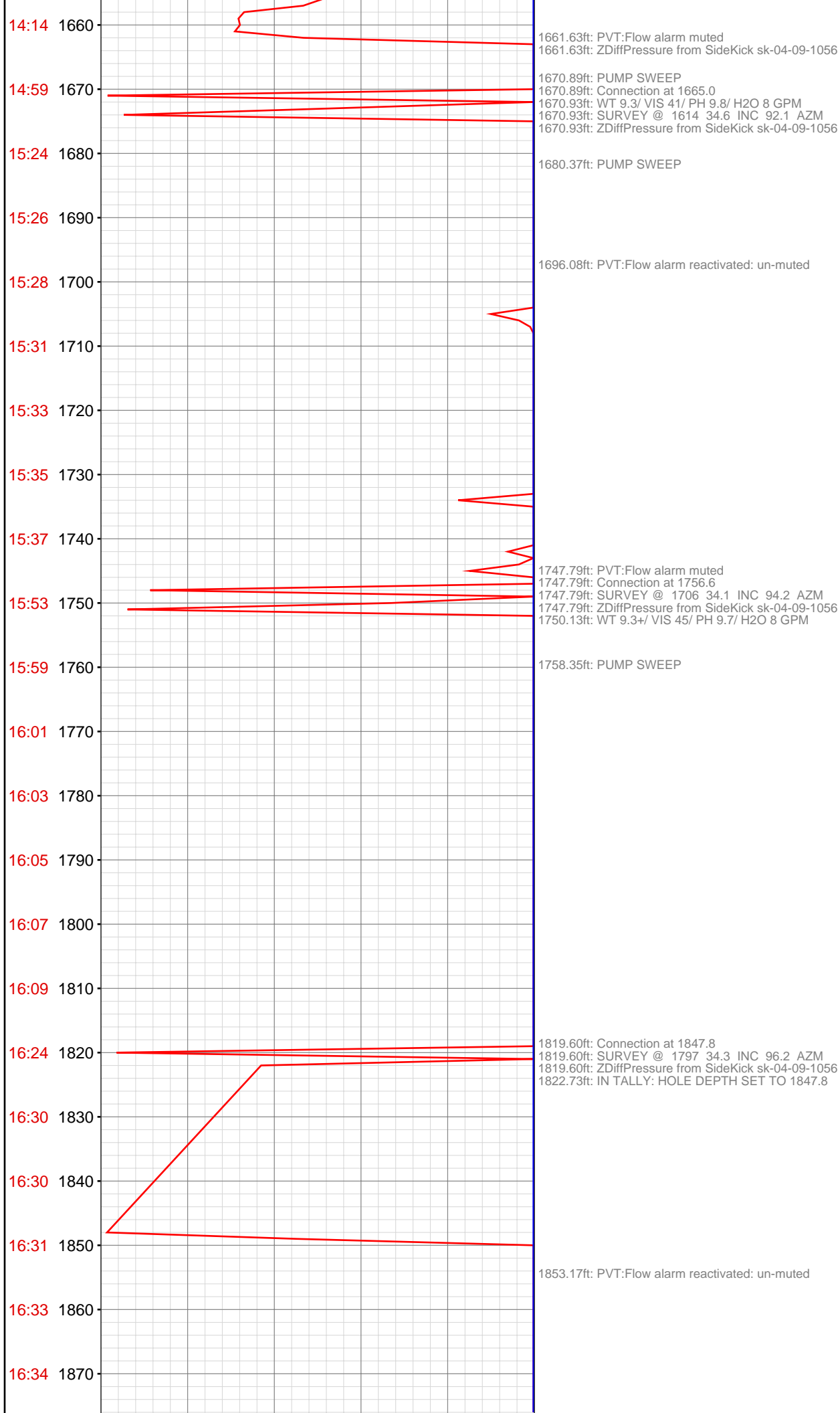
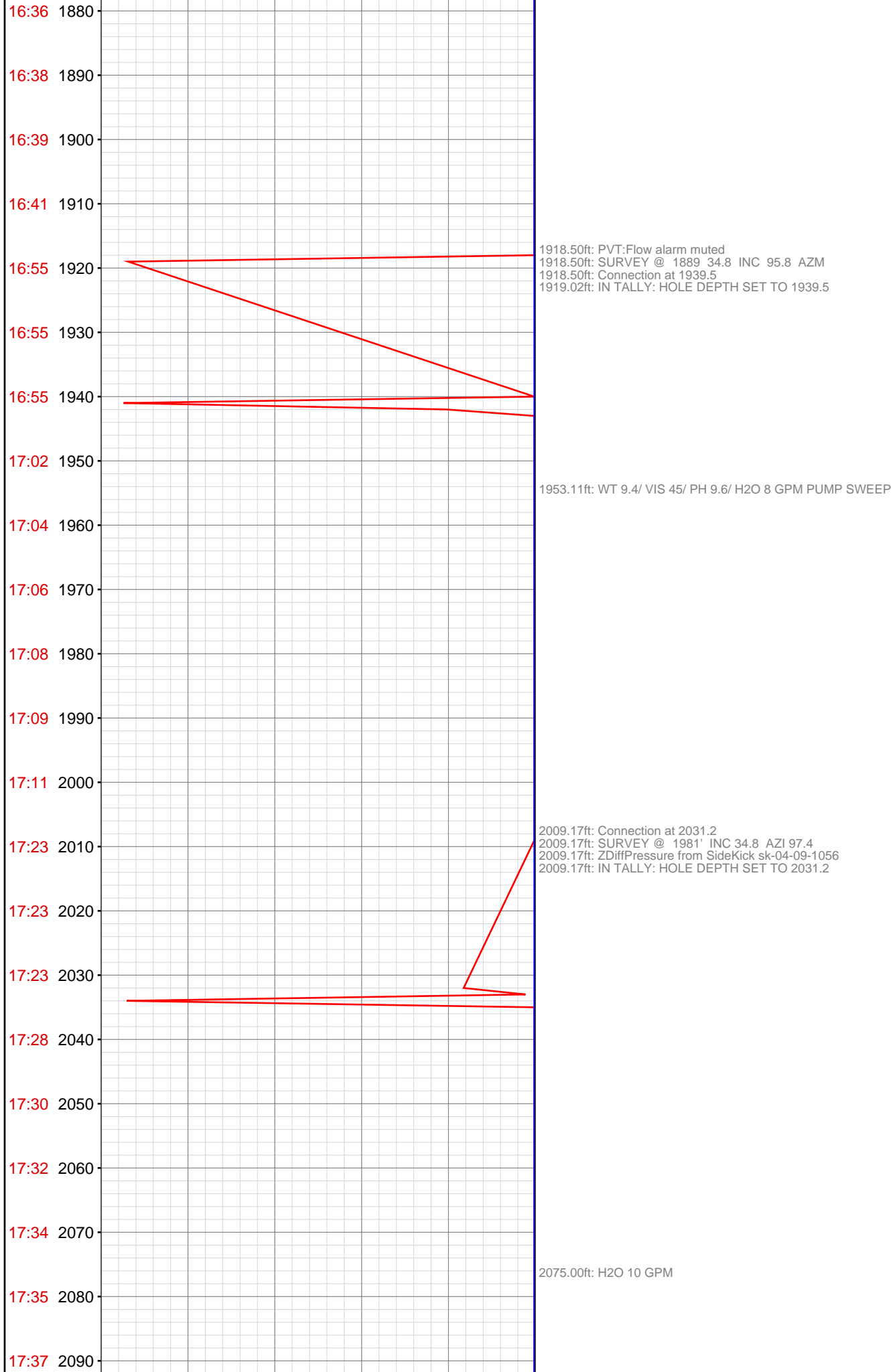


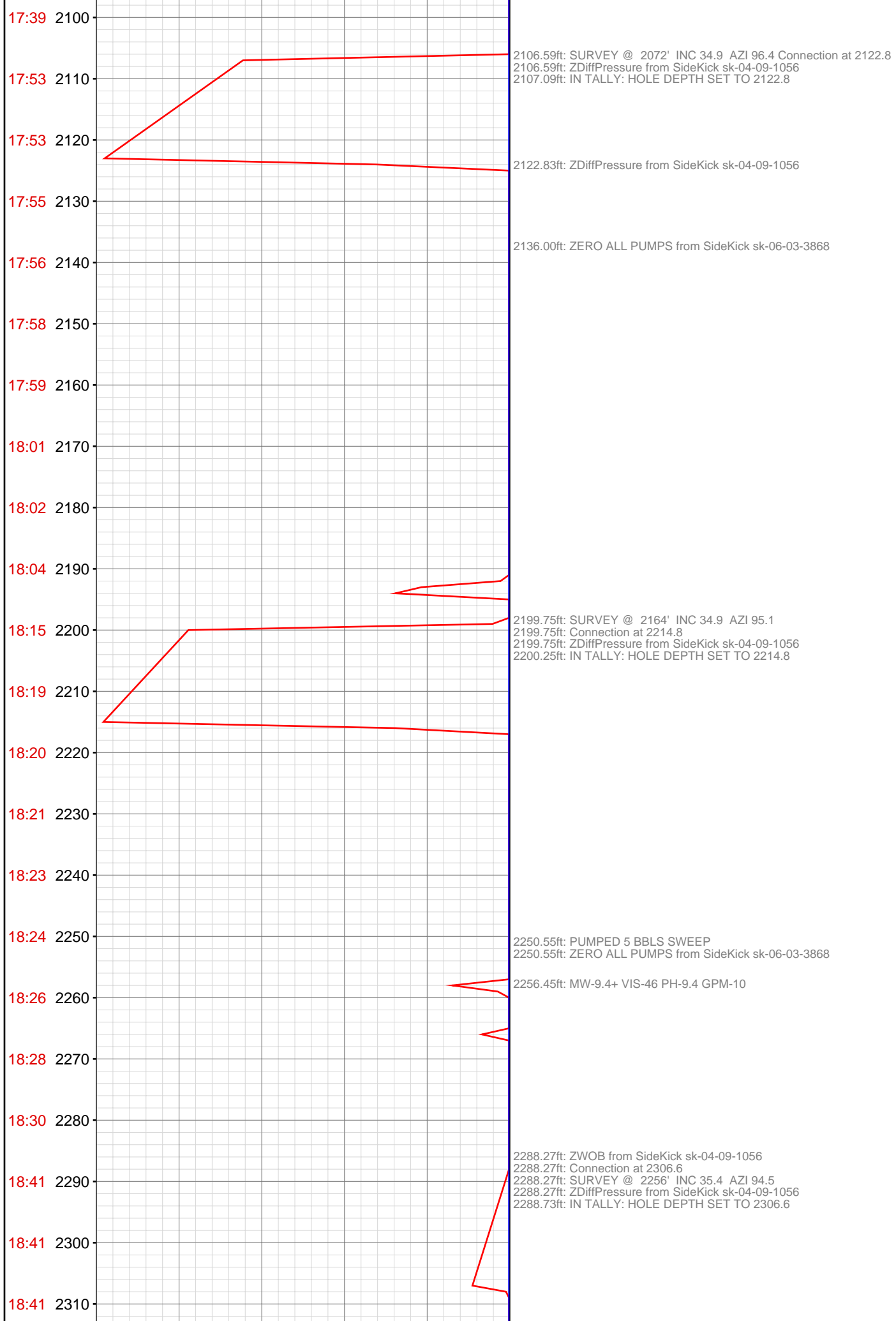
OPERATOR: EnCana Oil & Gas (USA), Inc.
WELL: Hagen Federal 22-1D
FIELD:
LOCATION:
COUNTRY: USA
RIG: Pat-UTI 303

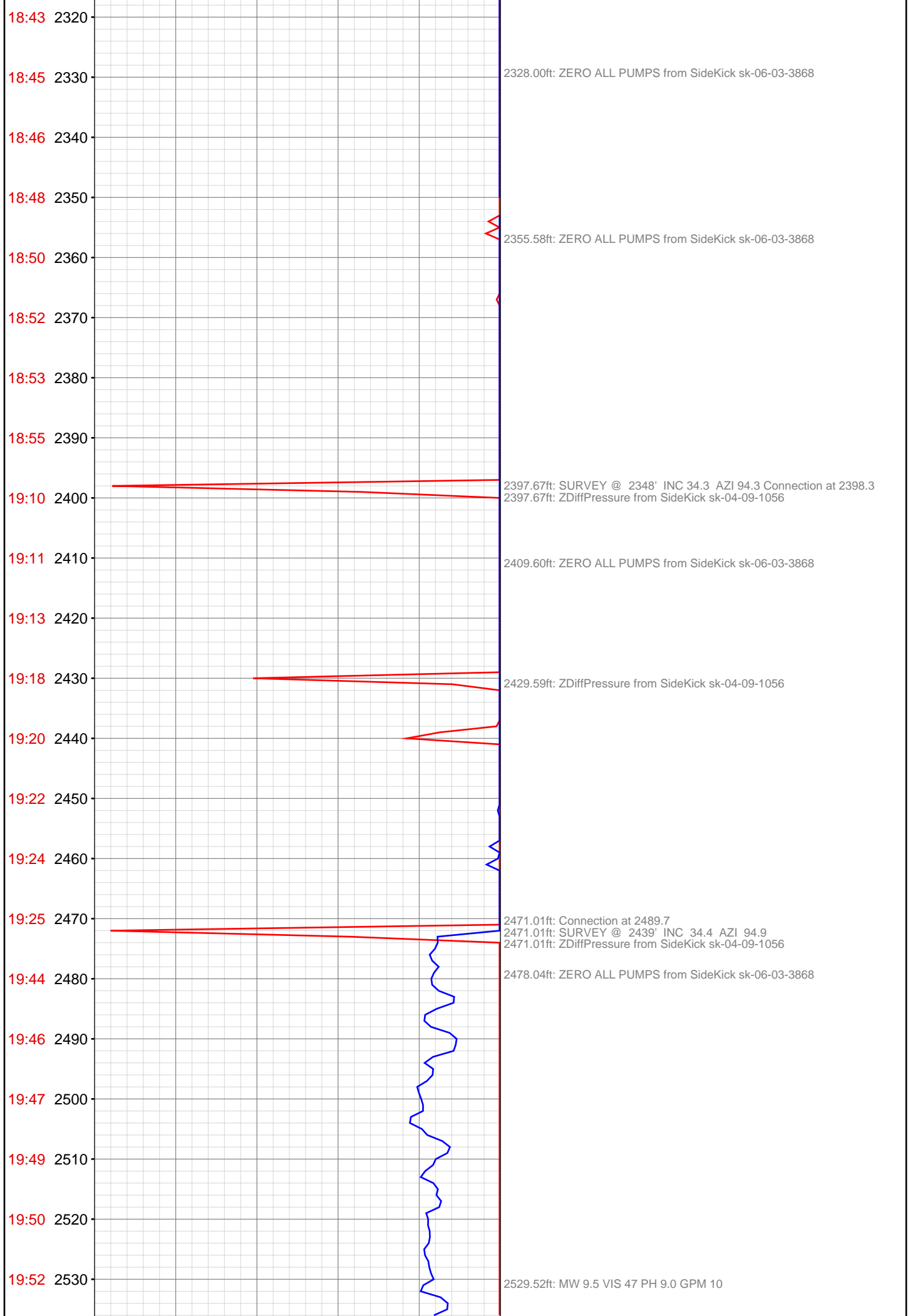
CONTRACTOR: Patterson-UTI Drilling Company
UNIQUE WELL ID: 05-045-22007
SPUD DATE: Aug 31, 2013 13:00
RELEASE DATE: Sep 05, 2013 11:00

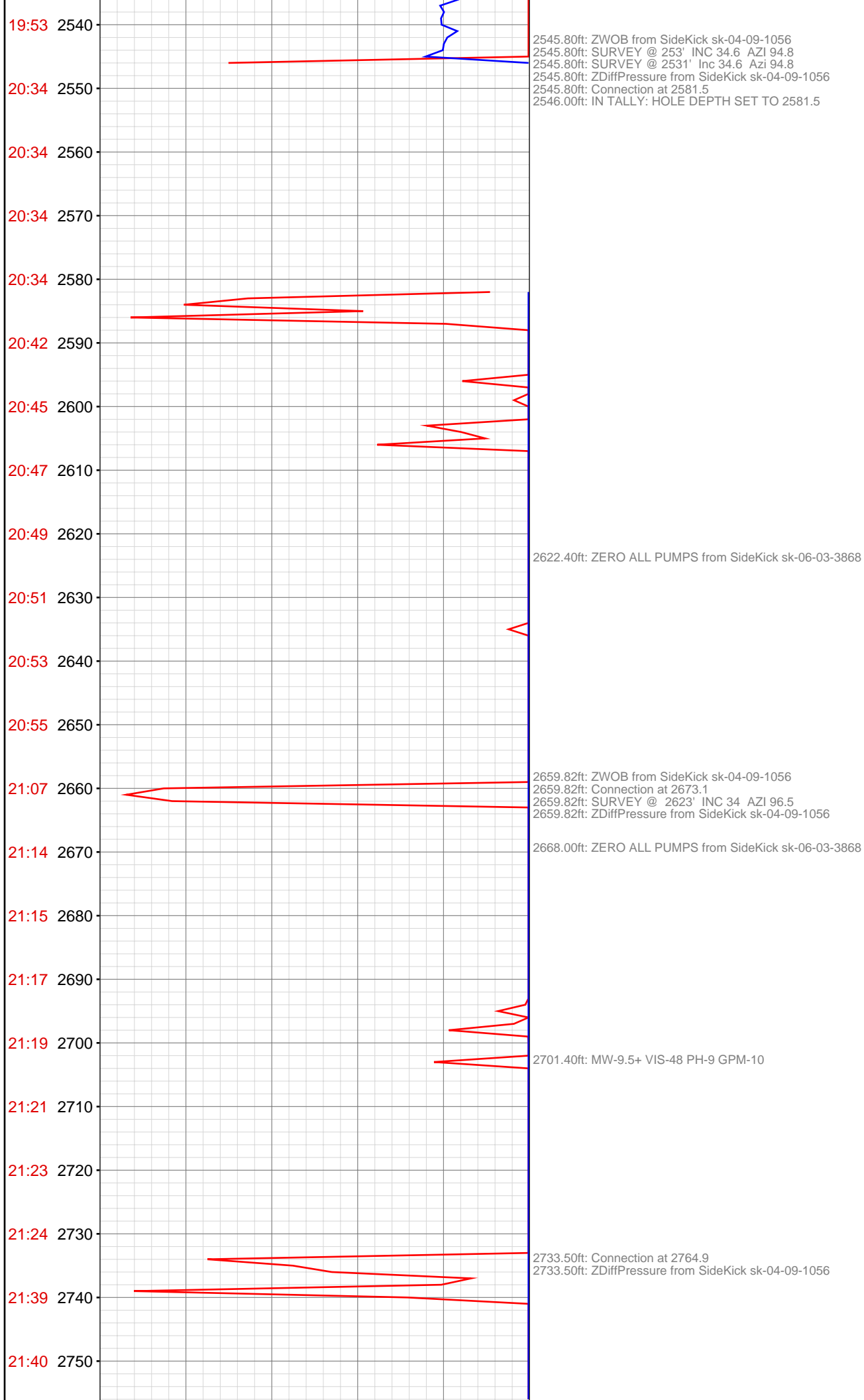


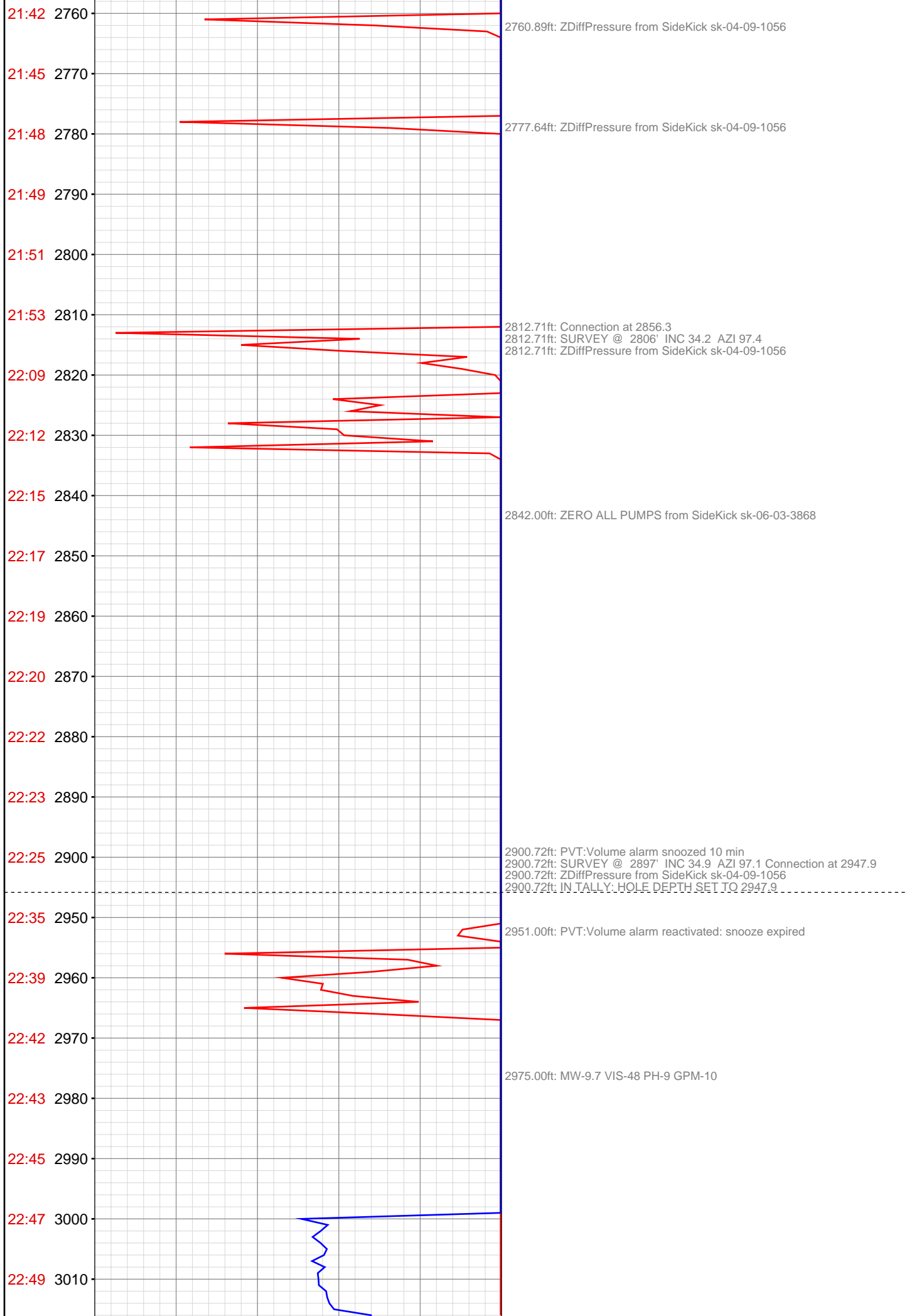


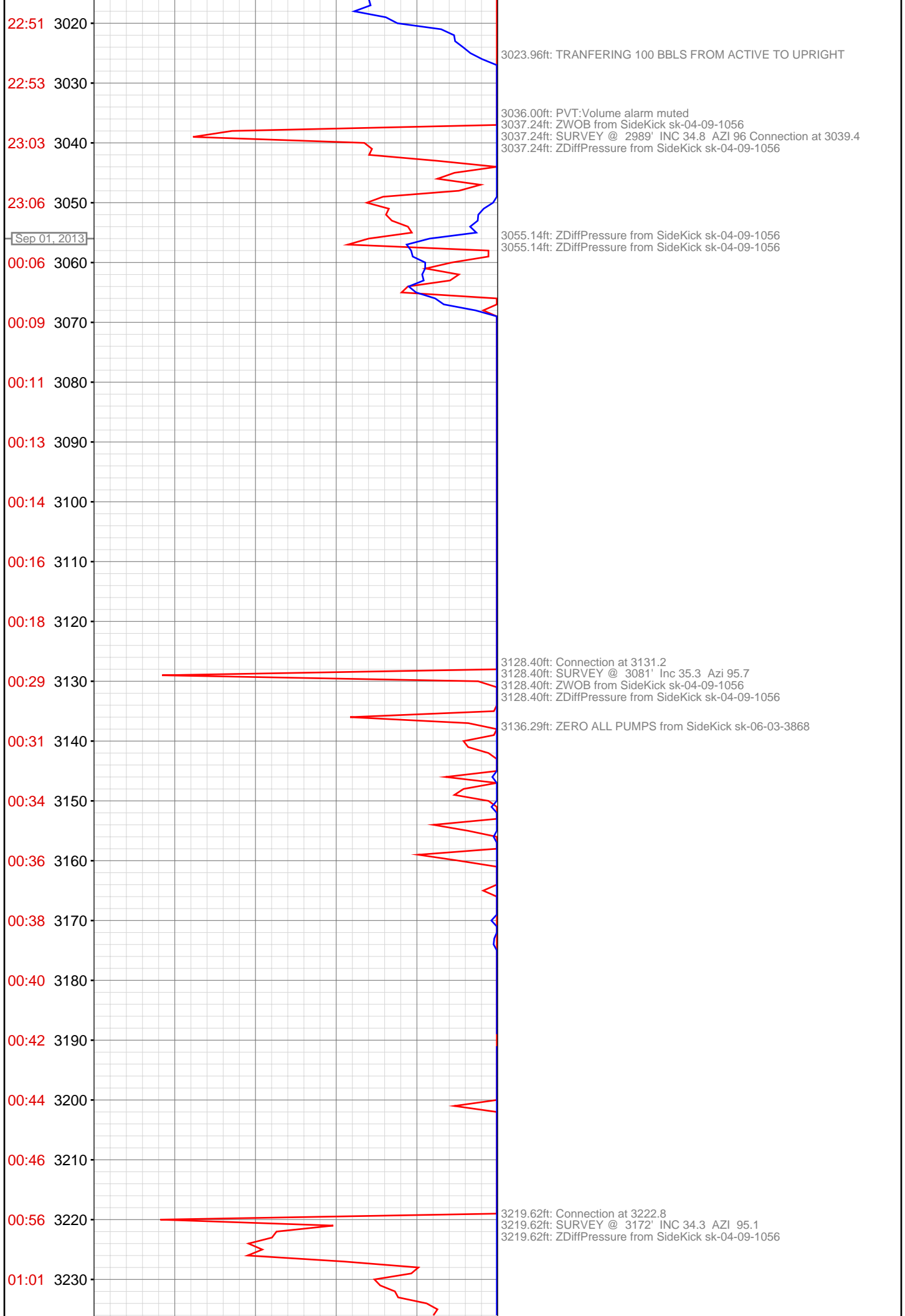


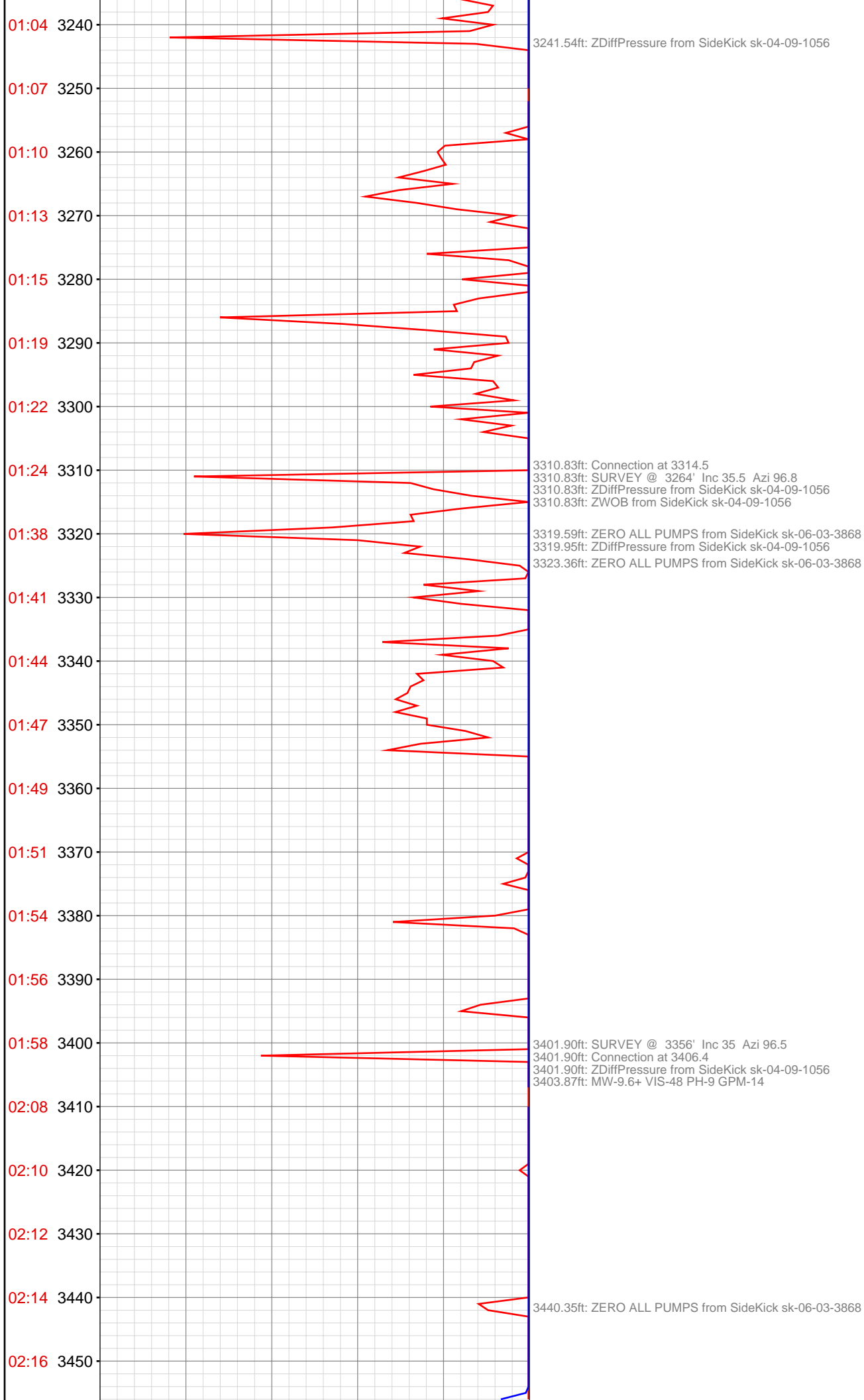


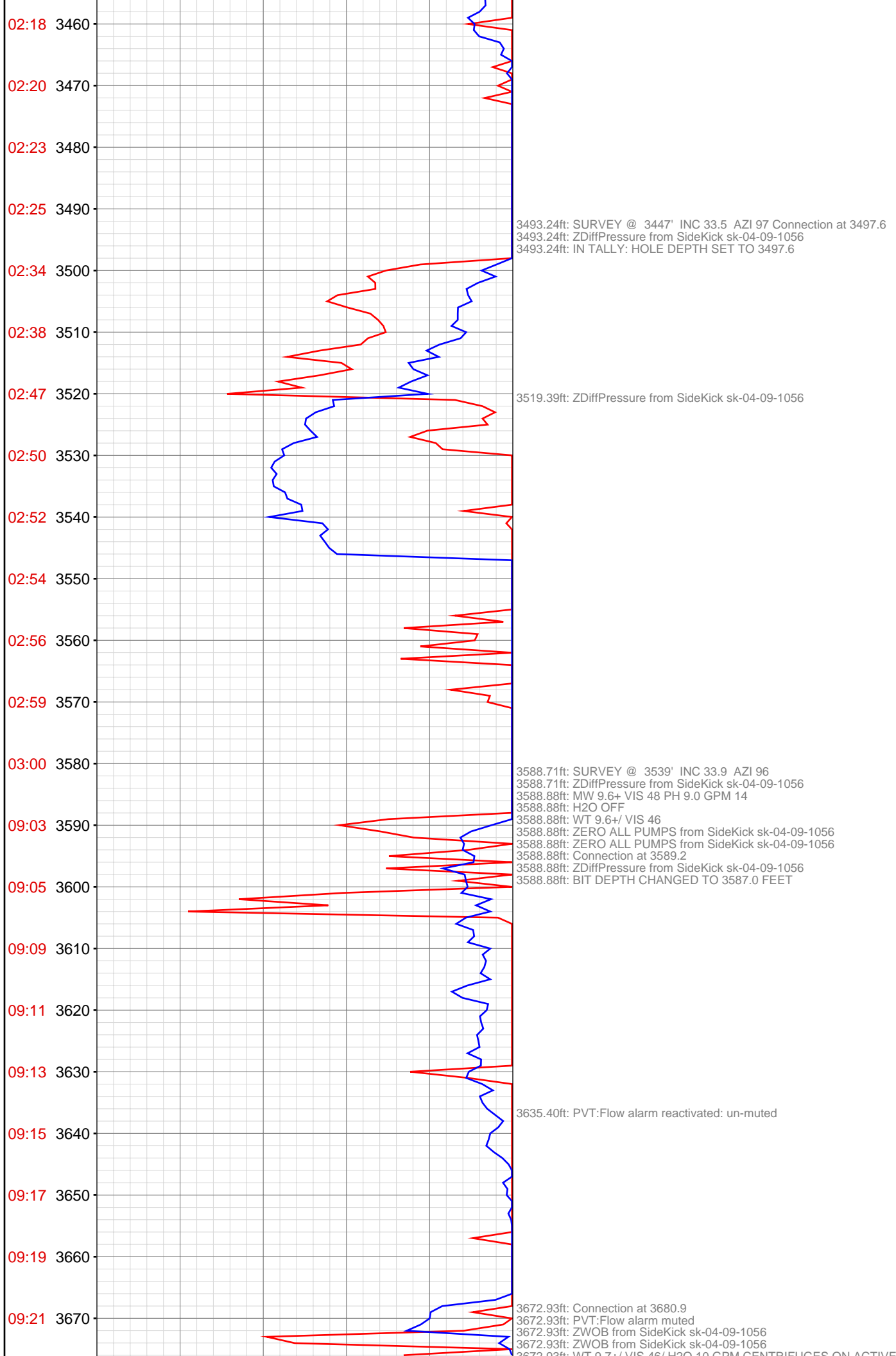


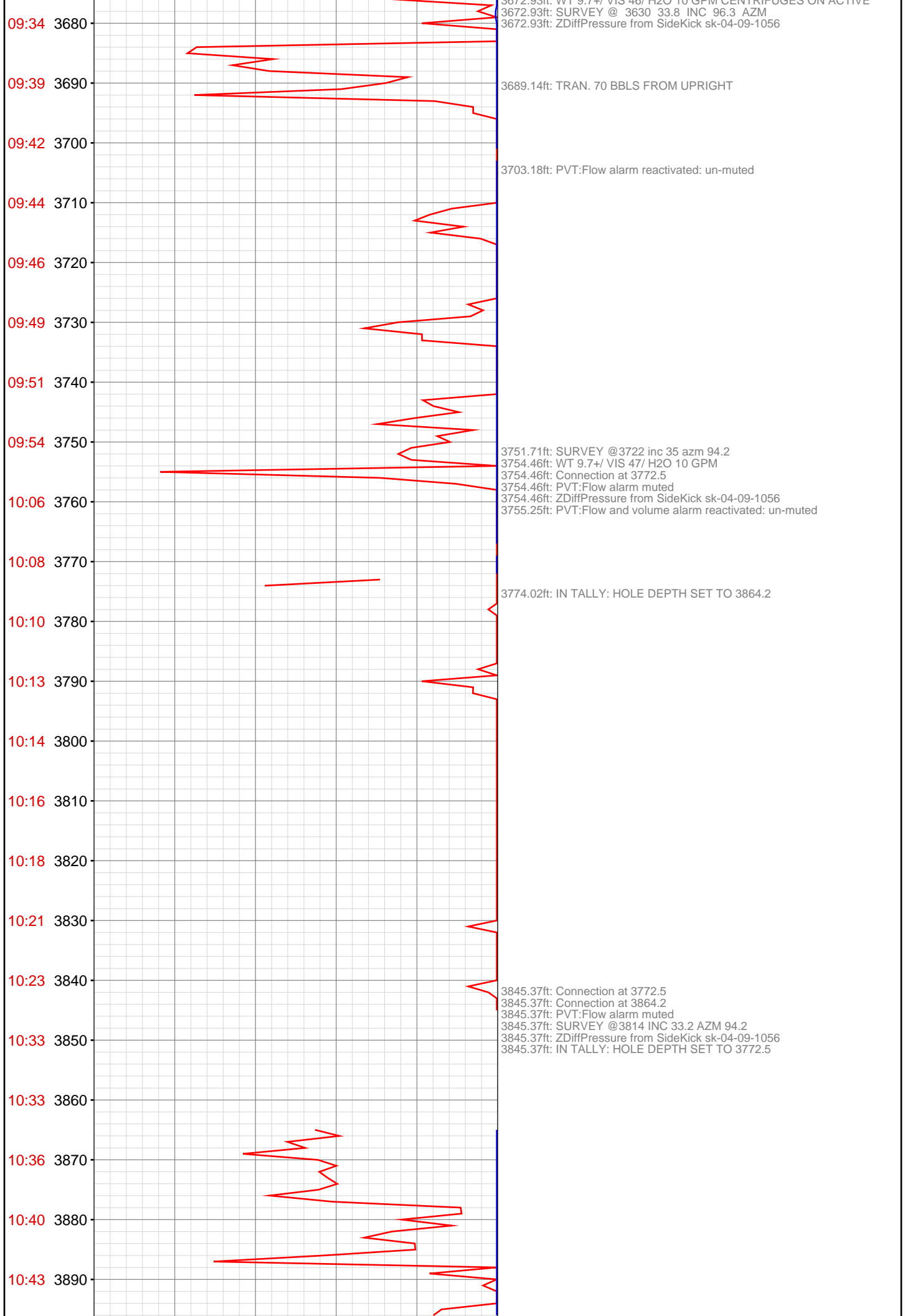


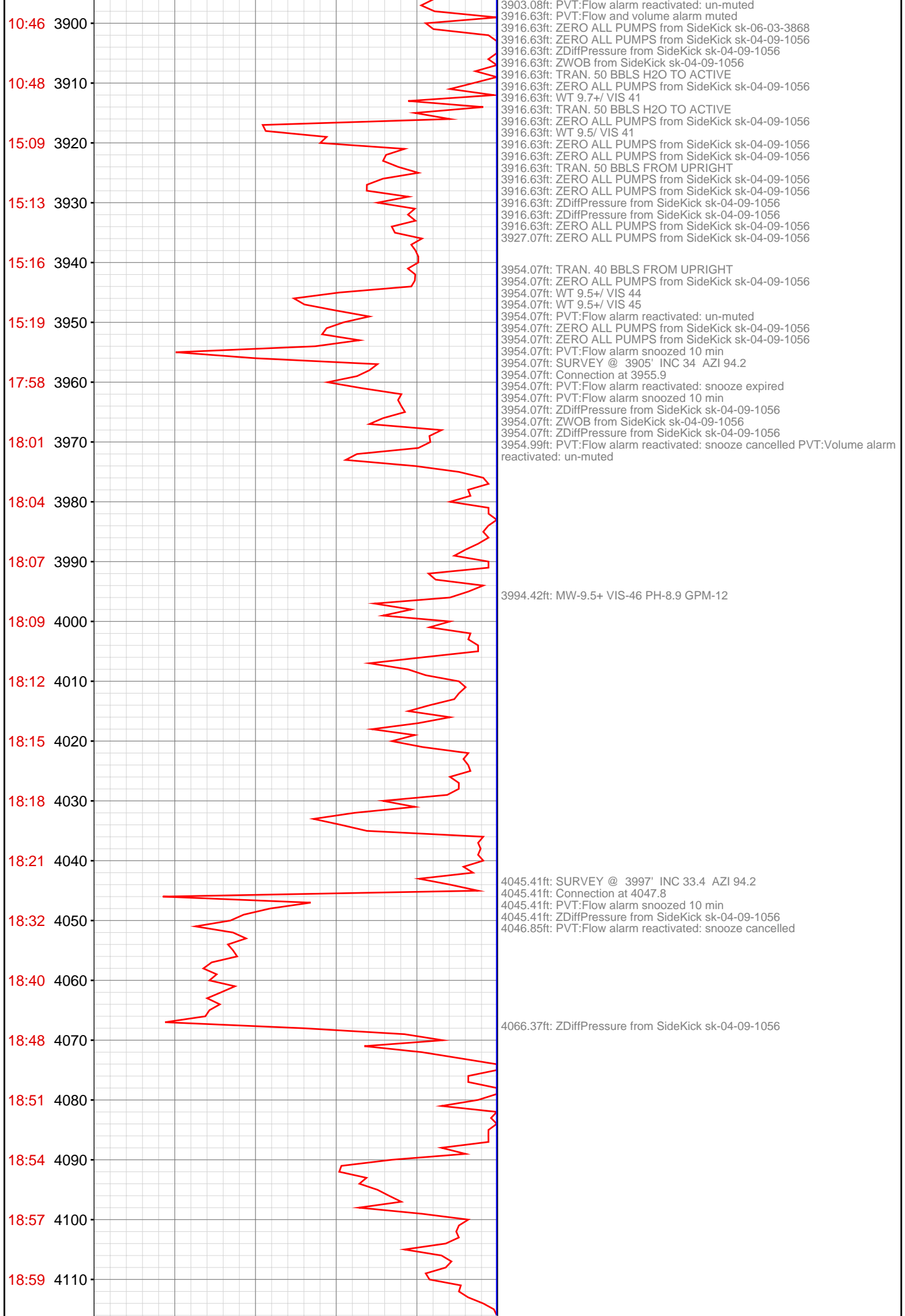


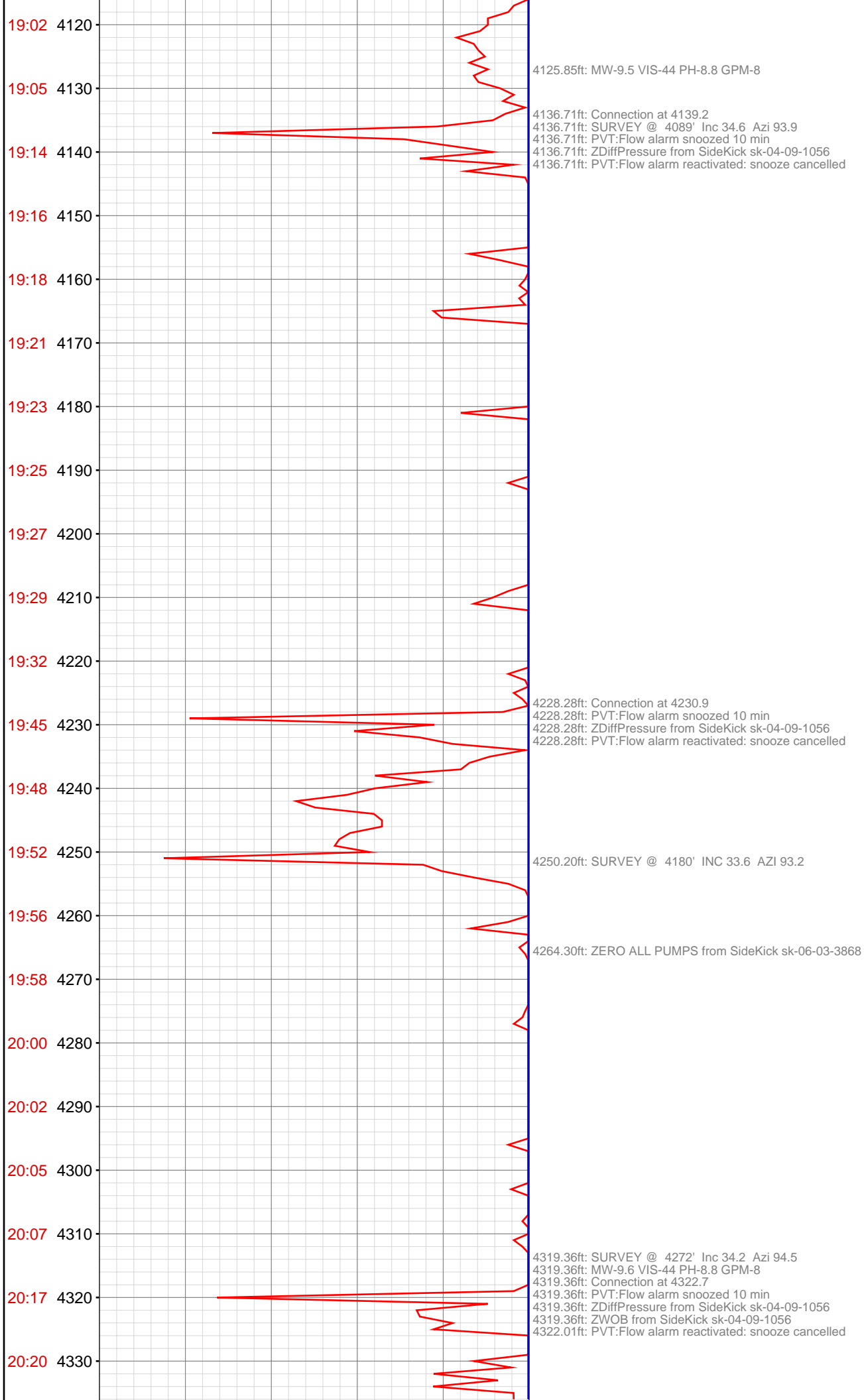


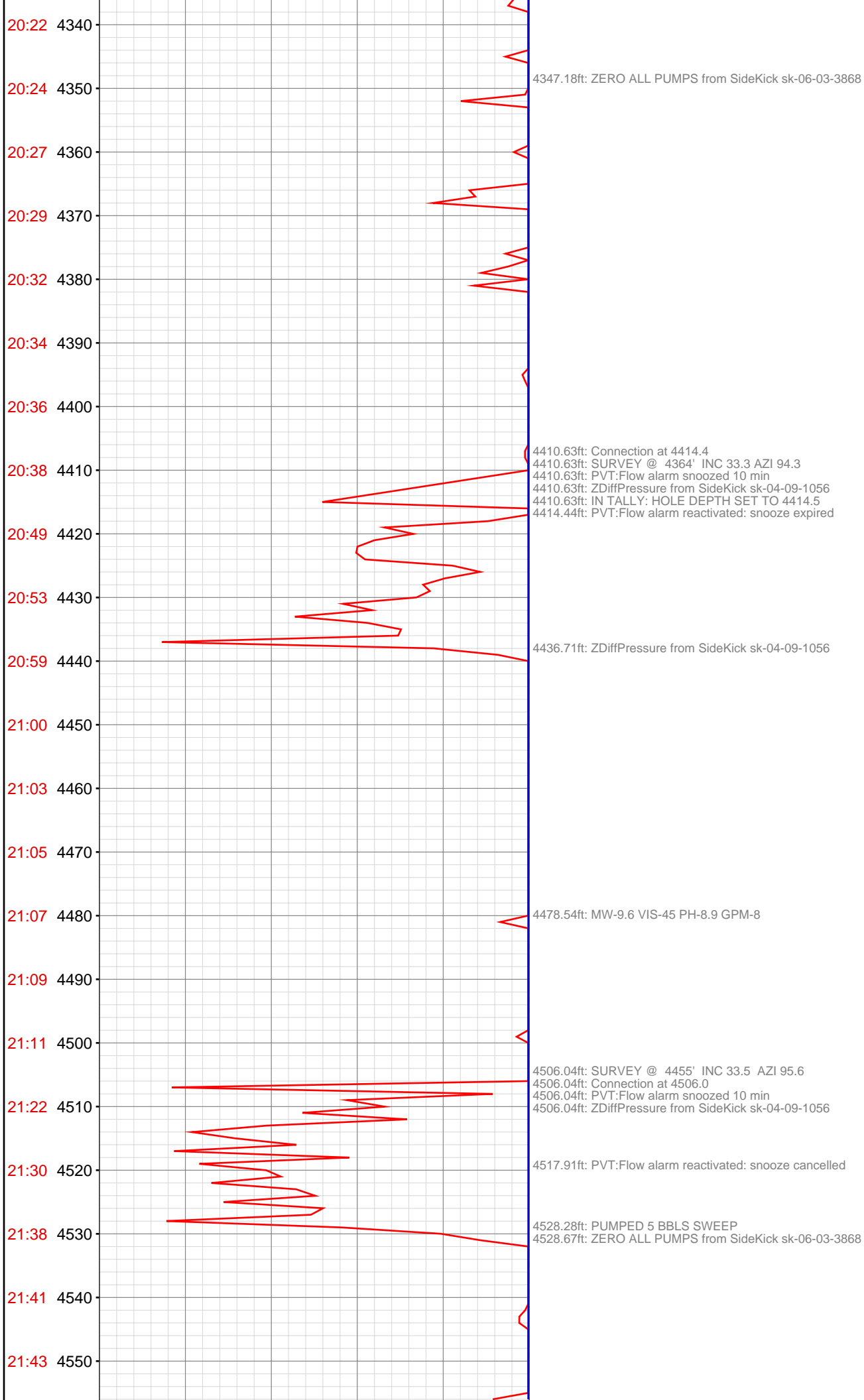


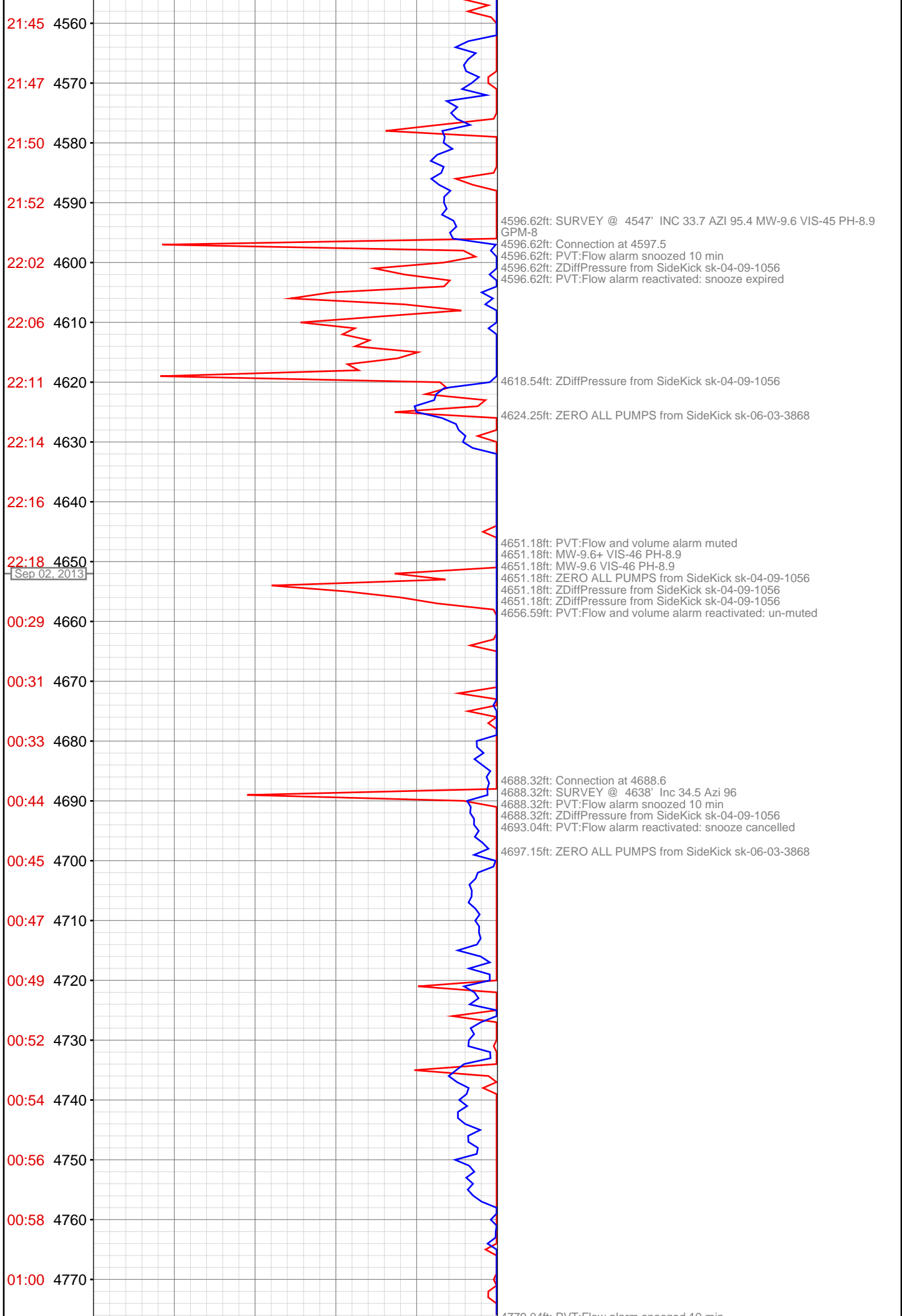


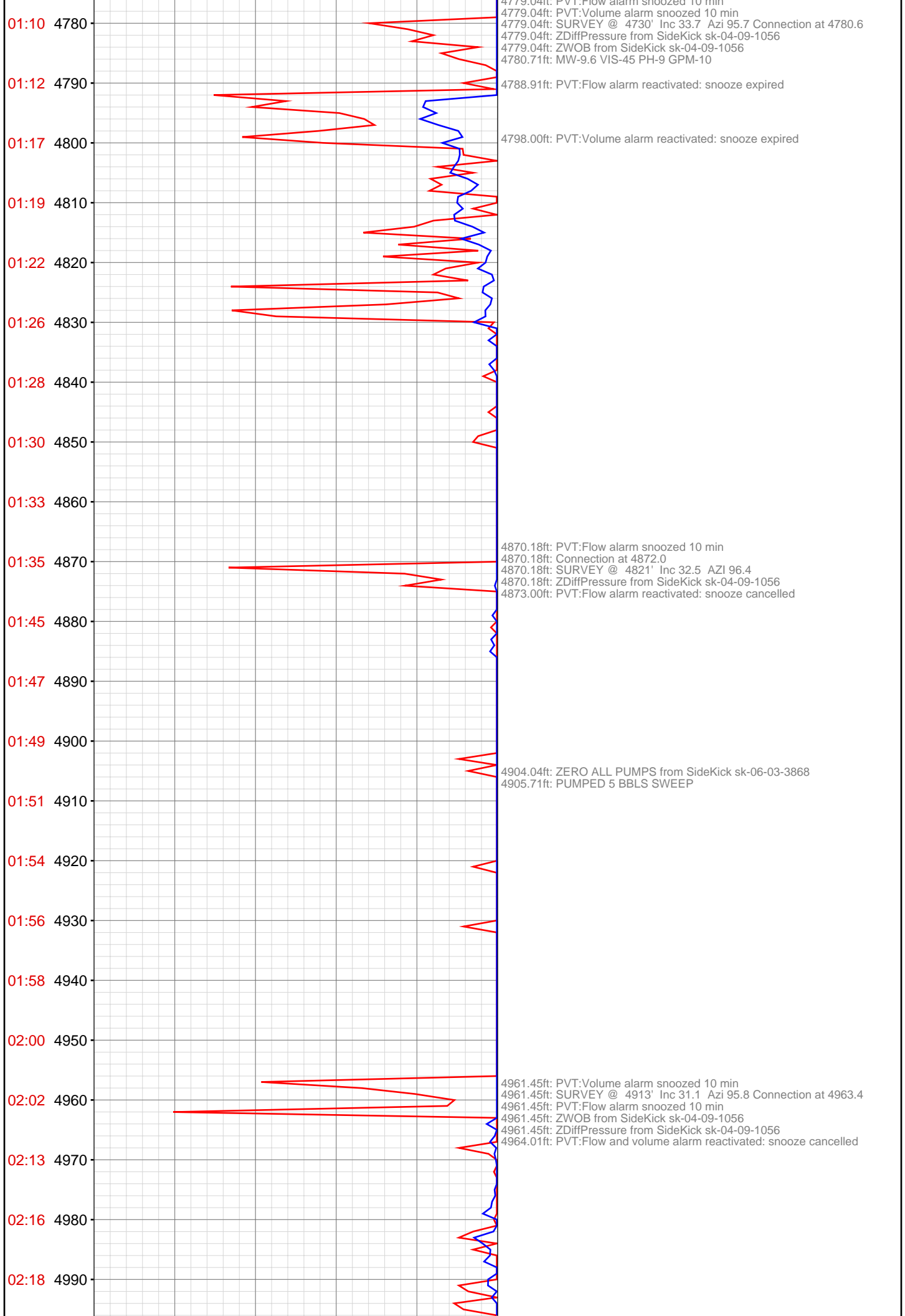


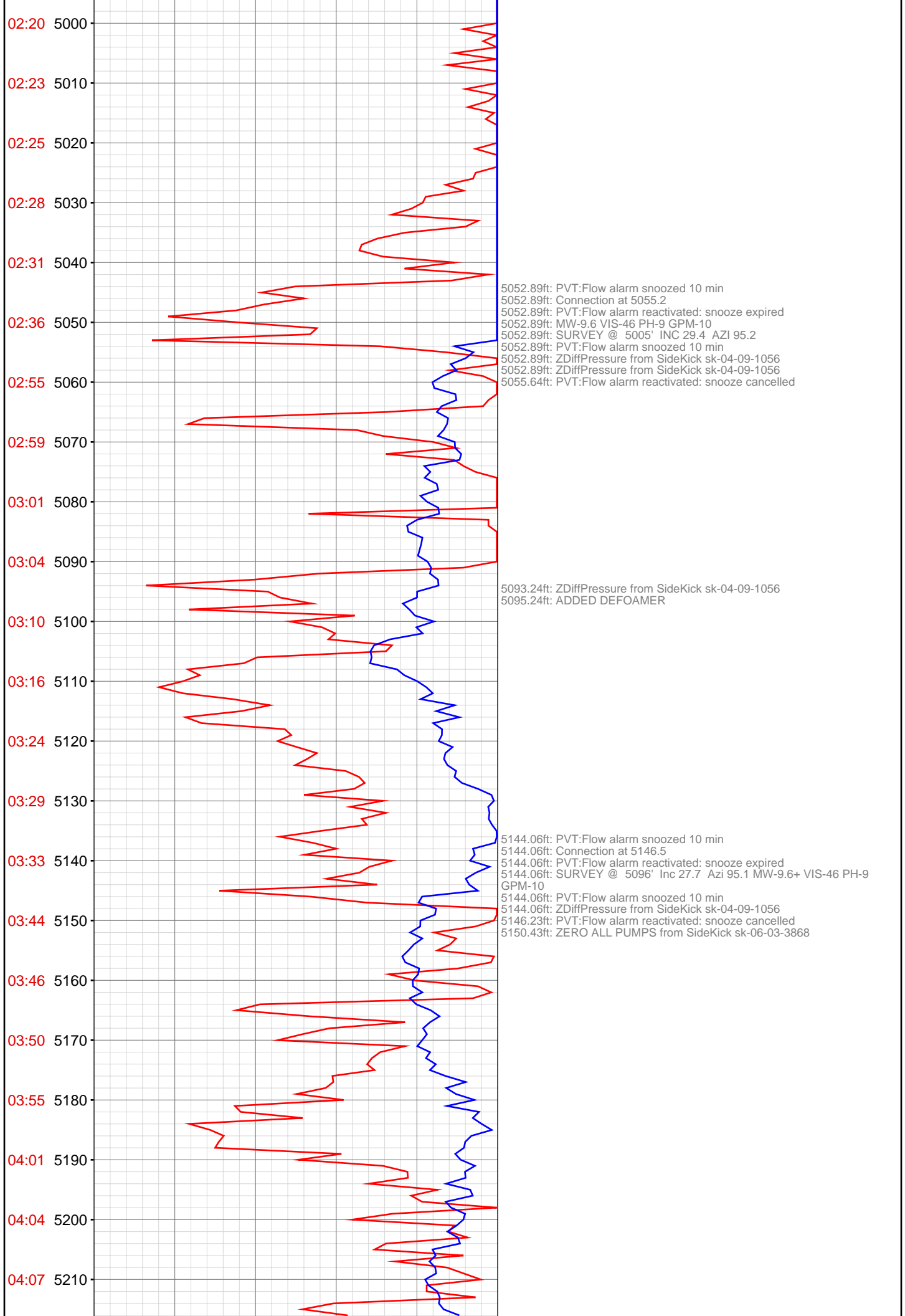


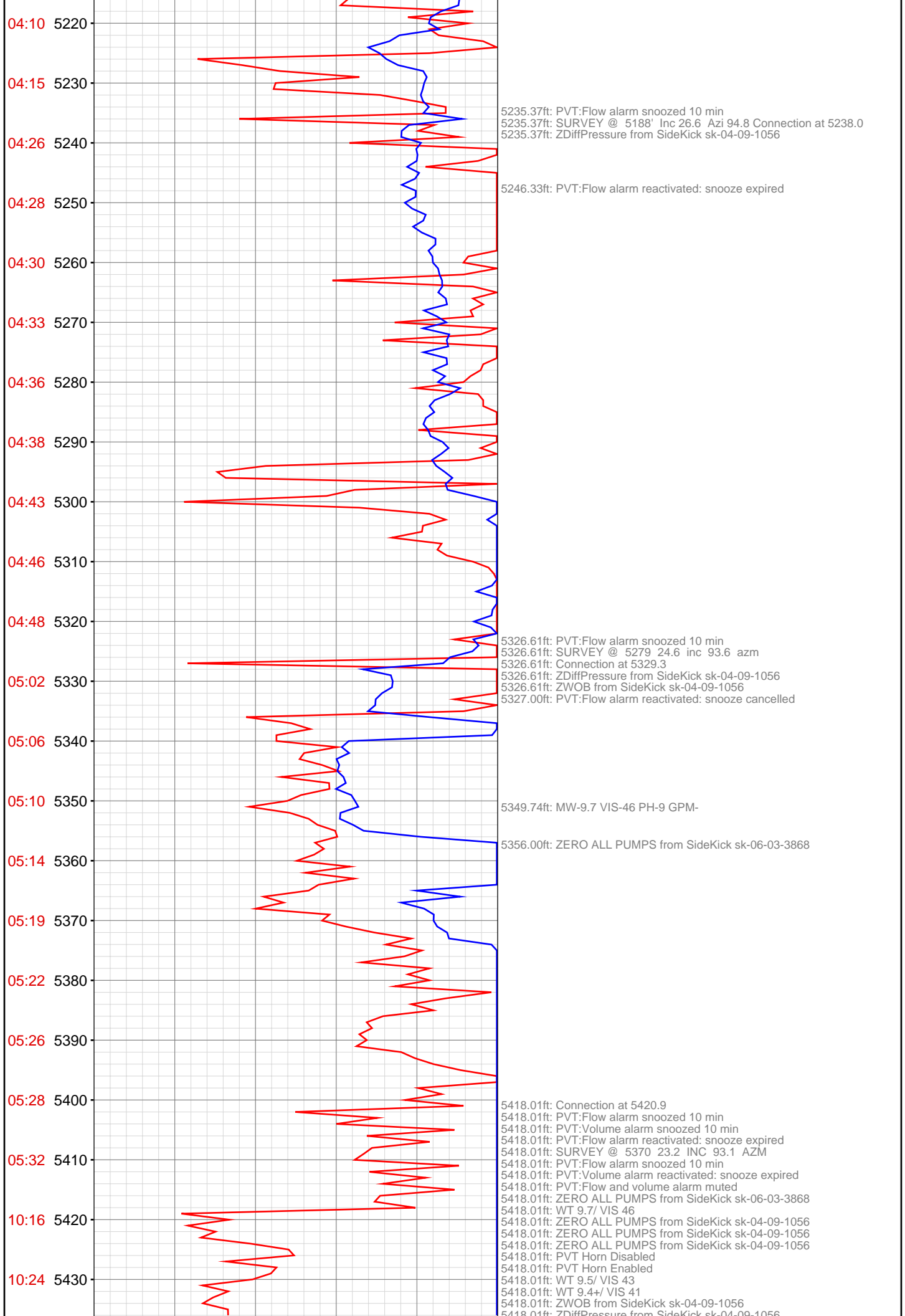












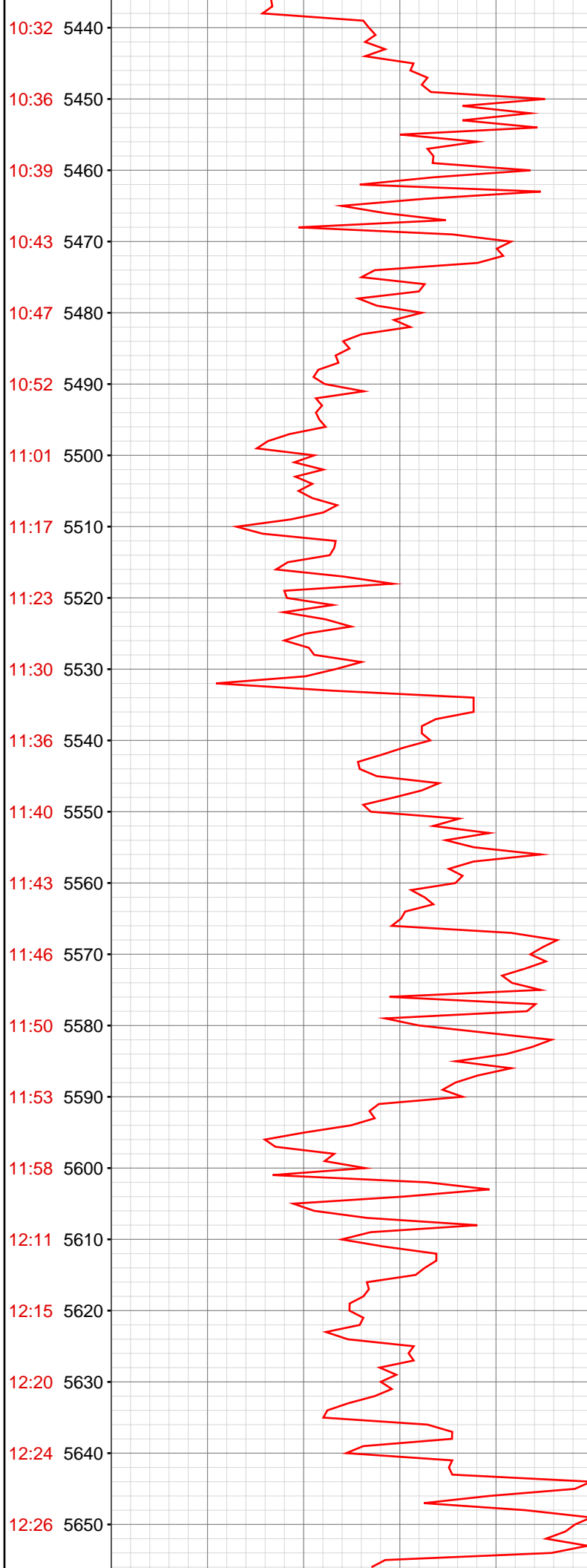
5418.91ft: ZDiffPressure from SideKick sk-04-09-1056
5418.21ft: PVT:Flow alarm reactivated: un-muted

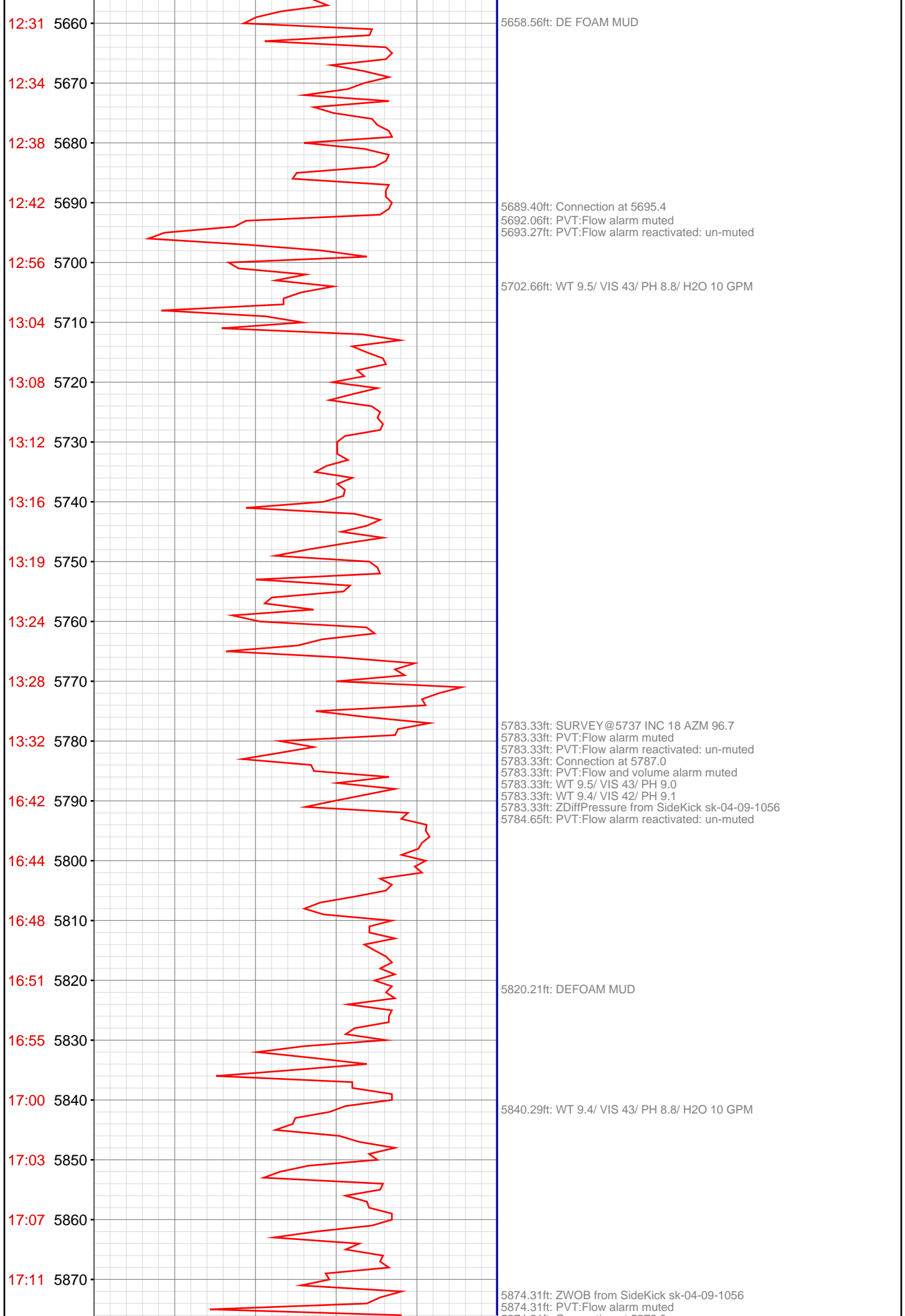
5498.26ft: PVT:Flow alarm muted
5498.26ft: WT 9.4+/ VIS 43/ PH 8.8/ H2O 10 GPM
5499.74ft: PVT:Flow alarm reactivated: un-muted

5509.58ft: Connection at 5512.4
5509.58ft: PVT:Flow alarm muted
5509.58ft: SURVEY @ 5462 22.9 INC 94.8 AZM
5509.58ft: ZDiffPressure from SideKick sk-04-09-1056
5509.71ft: PVT:Flow alarm reactivated: un-muted

5531.69ft: PVT:Volume alarm reactivated: un-muted

5600.89ft: Connection at 5604.1
5600.89ft: PVT:Flow alarm muted
5600.89ft: ZDiffPressure from SideKick sk-04-09-1056
5600.89ft: ZWOB from SideKick sk-04-09-1056
5600.89ft: SURVEY@5554 INC 23 AZM 96.5
5600.89ft: ZDiffPressure from SideKick sk-04-09-1056
5600.89ft: PVT:Flow alarm reactivated: un-muted
5607.74ft: WT 9.4+/ VIS 43/ PH 8.8/ H2O 10 GPM





5874.31ft: Connection at 5878.8
5874.31ft: SURVEY @ 5828' Inc 16.2 Azi 98.3
5880.32ft: PVT:Flow alarm reactivated: un-muted

5937.14ft: PVT:Volume alarm reactivated: un-muted

5965.78ft: PVT:Flow alarm snoozed 10 min
5965.78ft: MW-9.4+ VIS-43 PH-8.8 GPM-10
5965.78ft: PVT:Volume alarm snoozed 10 min
5965.78ft: Connection at 5970.4
5965.78ft: ZDiffPressure from SideKick sk-04-09-1056
5965.78ft: ZWOB from SideKick sk-04-09-1056
5967.22ft: PVT:Flow and volume alarm reactivated: snooze cancelled
5967.75ft: SURVEY @ 5920' Inc 13.2 Azi 98.1

5994.00ft: ZERO ALL PUMPS from SideKick sk-06-03-3868

6034.65ft: ZDiffPressure from SideKick sk-04-09-1056

6056.86ft: PVT:Flow alarm snoozed 10 min
6056.86ft: PVT:Volume alarm snoozed 10 min
6056.86ft: Connection at 6061.9
6056.86ft: MW-9.4+ VIS-43 PH-8.9 GPM-10
6056.86ft: ZDiffPressure from SideKick sk-04-09-1056
6056.86ft: SURVEY @ 6011' Inc 12 Azi 99.2
6057.71ft: IN TALLY: HOLE DEPTH SET TO 6061.9
6062.01ft: PVT:Flow and volume alarm reactivated: snooze cancelled

6073.59ft: ZERO ALL PUMPS from SideKick sk-06-03-3868

17:28 5880

17:33 5890

17:36 5900

17:39 5910

17:44 5920

17:49 5930

17:53 5940

17:58 5950

18:03 5960

18:16 5970

18:21 5980

18:26 5990

18:31 6000

18:35 6010

18:39 6020

18:44 6030

18:54 6040

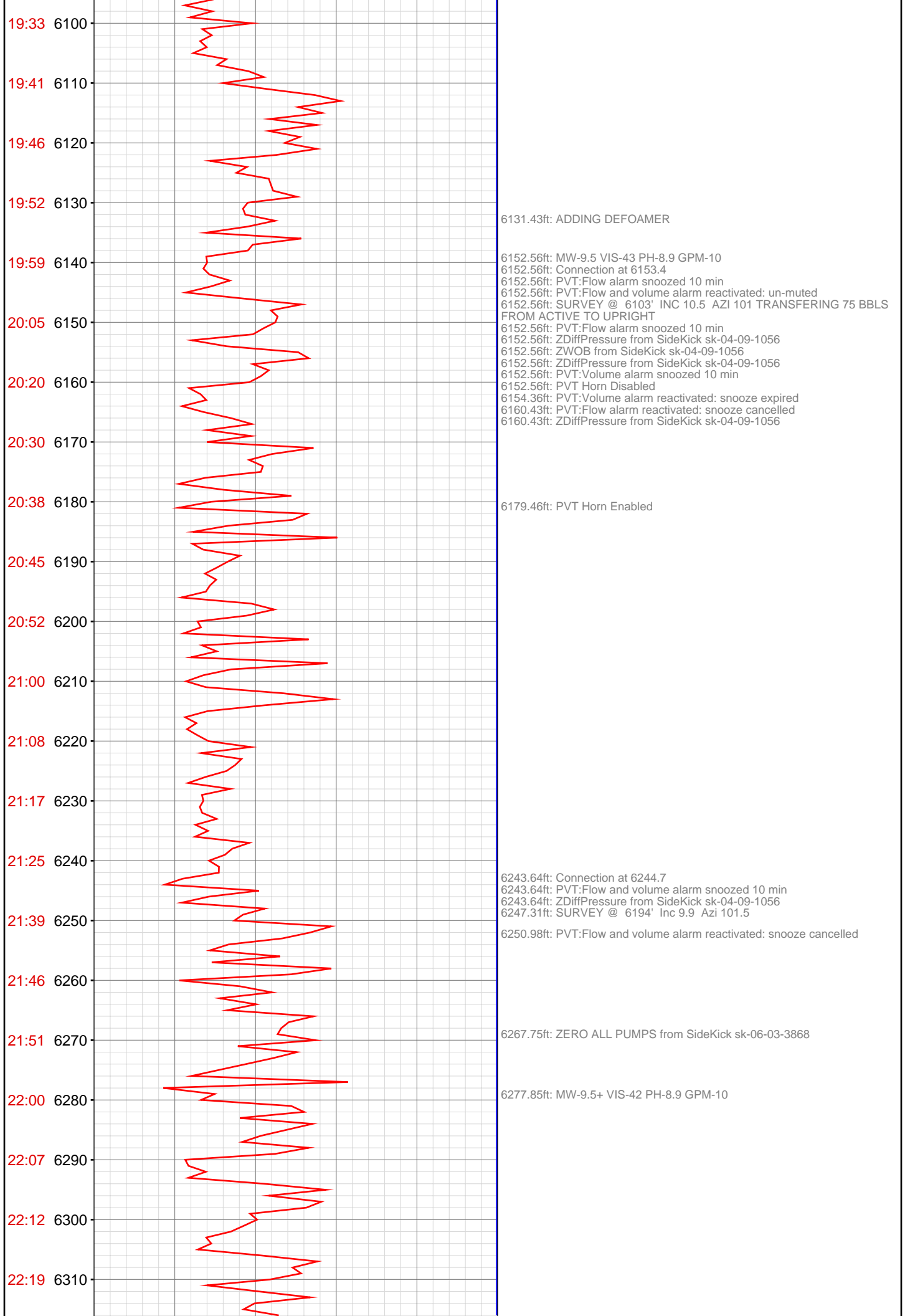
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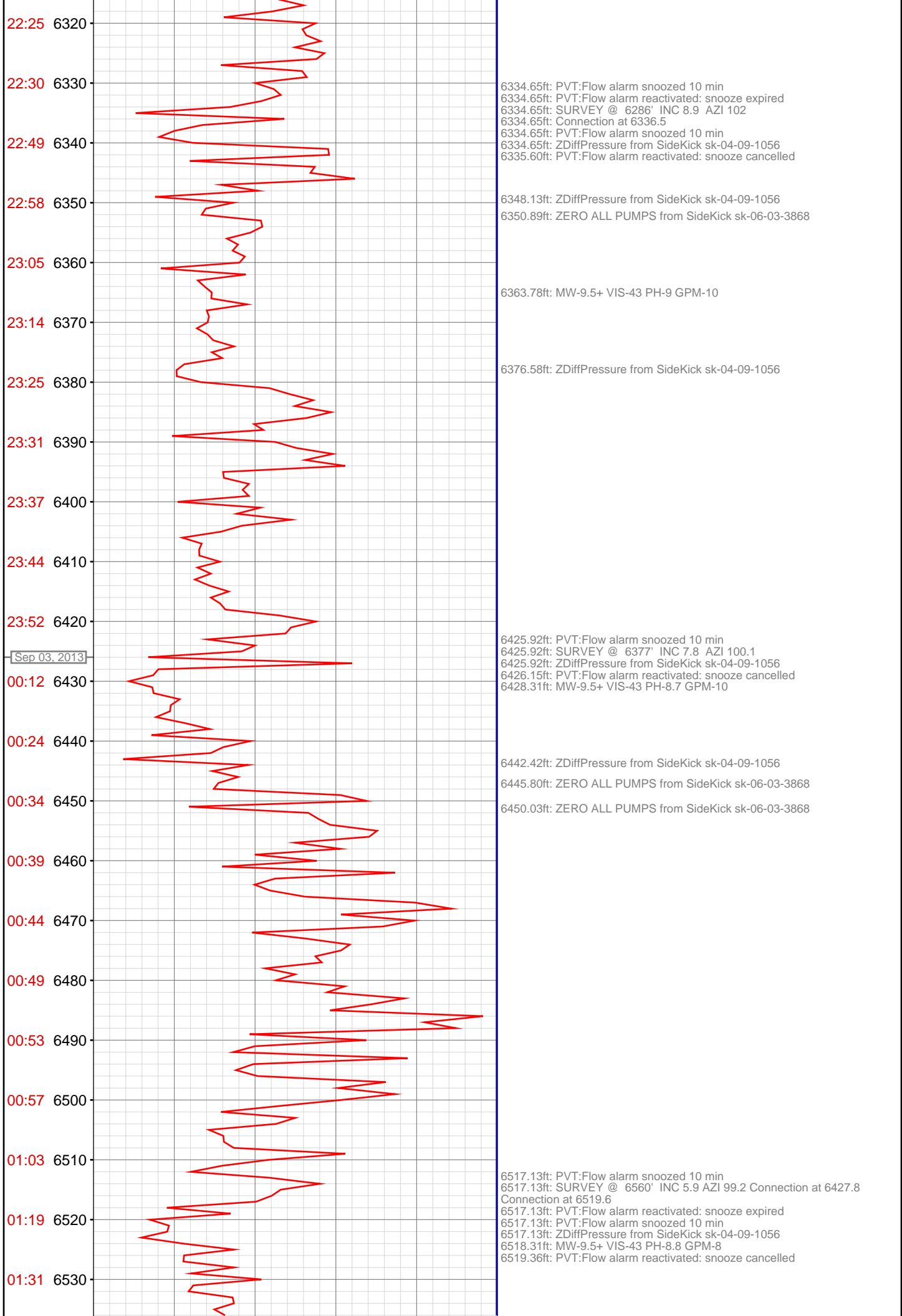
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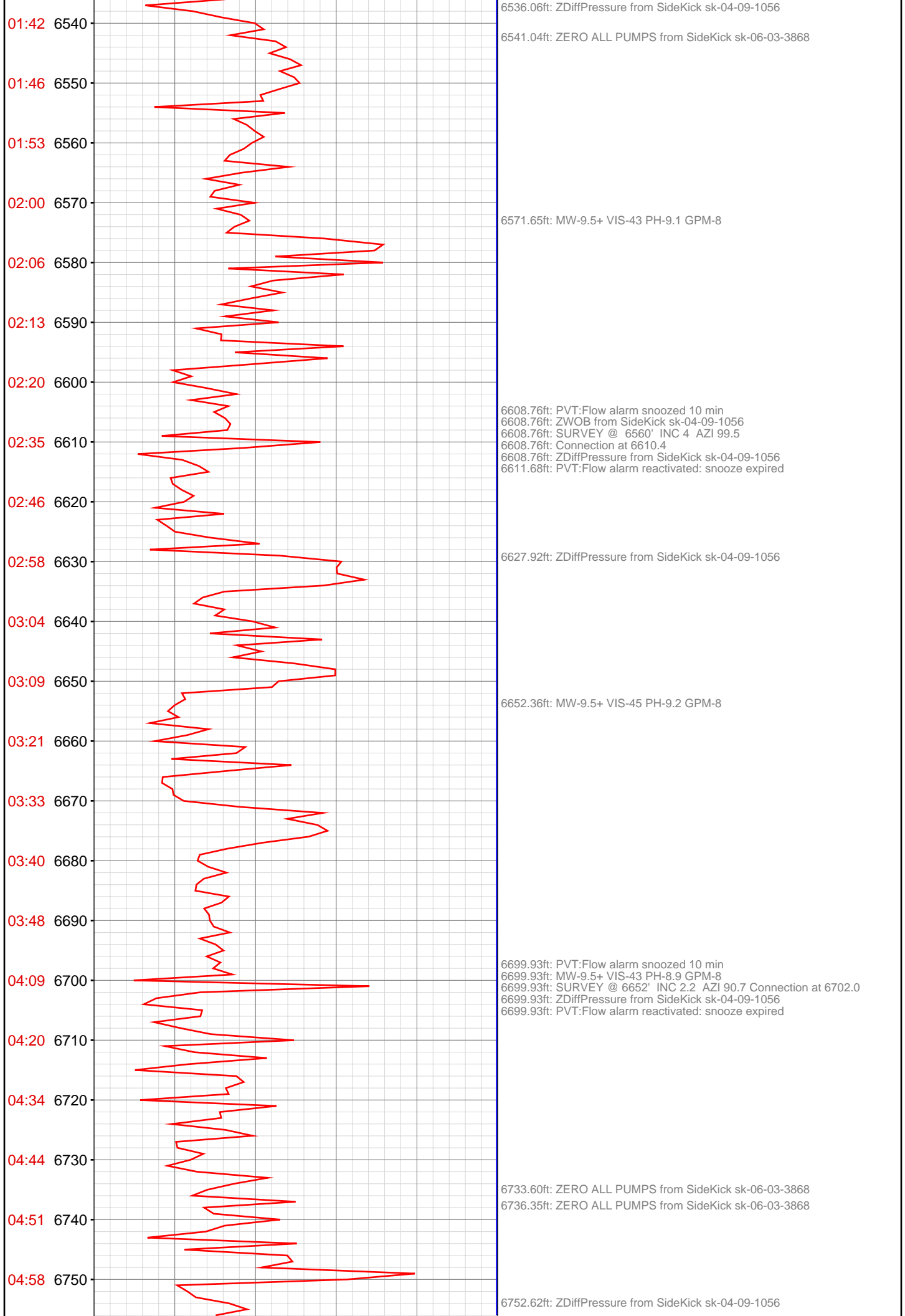
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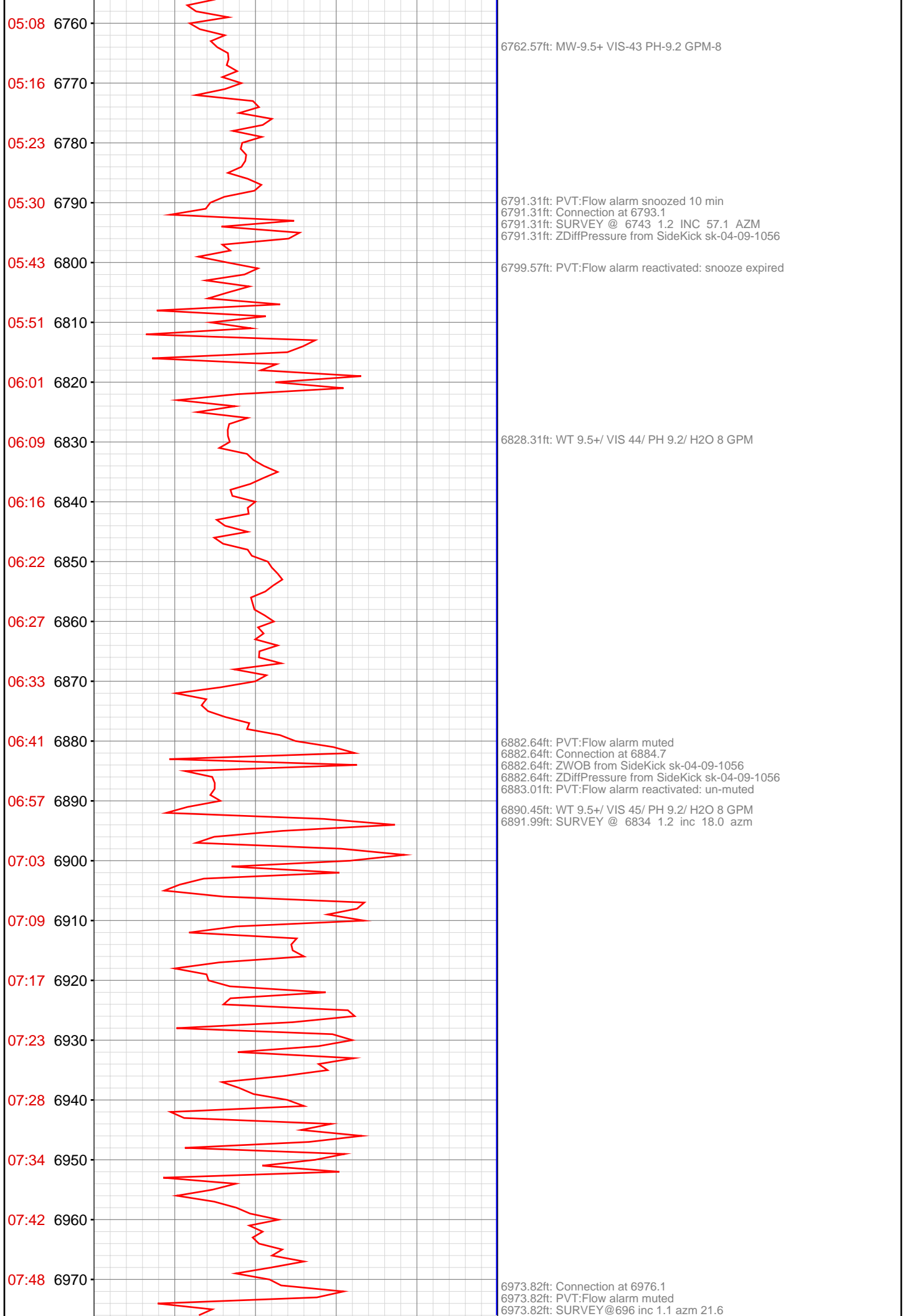
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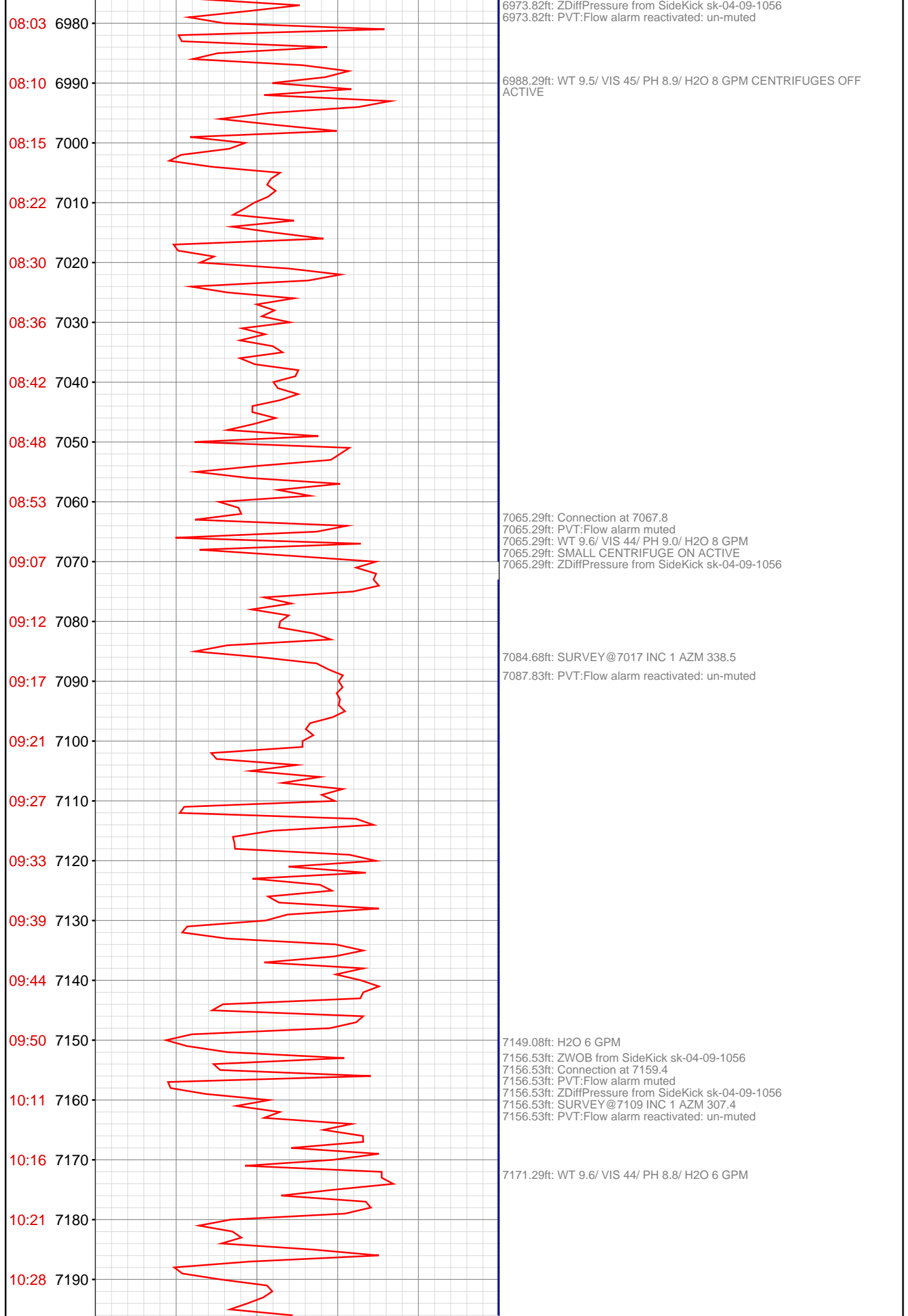
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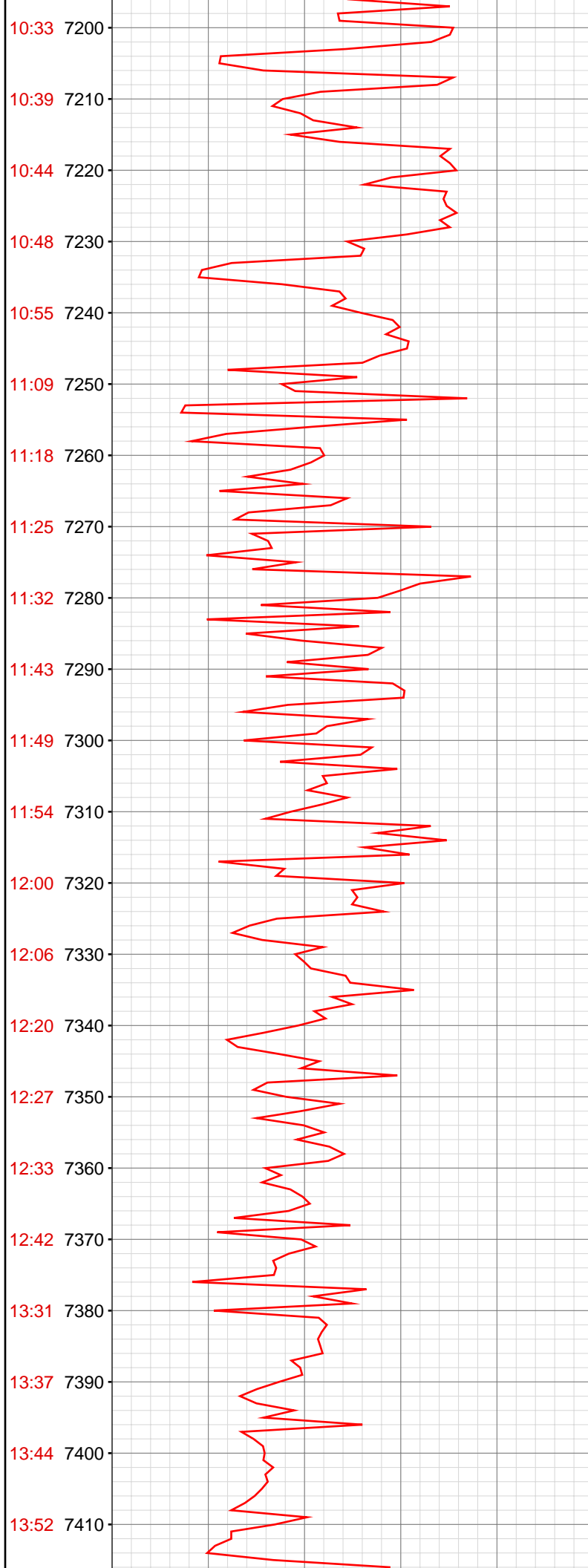












7247.67ft: PVT:Flow alarm muted
7247.67ft: Connection at 7250.7
7247.67ft: WT 9.6/ VIS 45/ PH 9.4/ H2O 6 GPM
7252.66ft: PVT:Flow alarm reactivated: un-muted
7257.15ft: SURVEY @ 7200 1.2 INC 305.4 AZM

7319.95ft: WT 9.6/ VIS 45/ PH 9.3/ H2O 6 GPM

7339.11ft: Connection at 7342.3
7339.11ft: ZWOB from SideKick sk-04-09-1056
7339.11ft: PVT:Flow alarm muted
7339.11ft: SURVEY @ 7292 1.0 INC 257.6 AZM
7339.11ft: ZDiffPressure from SideKick sk-04-09-1056

7372.01ft: PVT:Flow alarm reactivated: un-muted
7375.07ft: PVT:Flow alarm muted
7375.07ft: ZDiffPressure from SideKick sk-04-09-1056
7375.07ft: PVT:Flow alarm reactivated: un-muted
7379.20ft: PVT:Flow alarm muted
7379.20ft: ZDiffPressure from SideKick sk-04-09-1056
7380.58ft: PVT:Flow alarm reactivated: un-muted

13:59 7420
14:16 7430
14:23 7440
14:27 7450
14:35 7460
14:43 7470
14:51 7480
14:55 7490
14:59 7500
15:06 7510
15:11 7520
15:26 7530
15:34 7540
15:40 7550
15:44 7560
15:51 7570
15:56 7580
16:01 7590
16:07 7600
16:15 7610
16:44 7620
16:50 7630

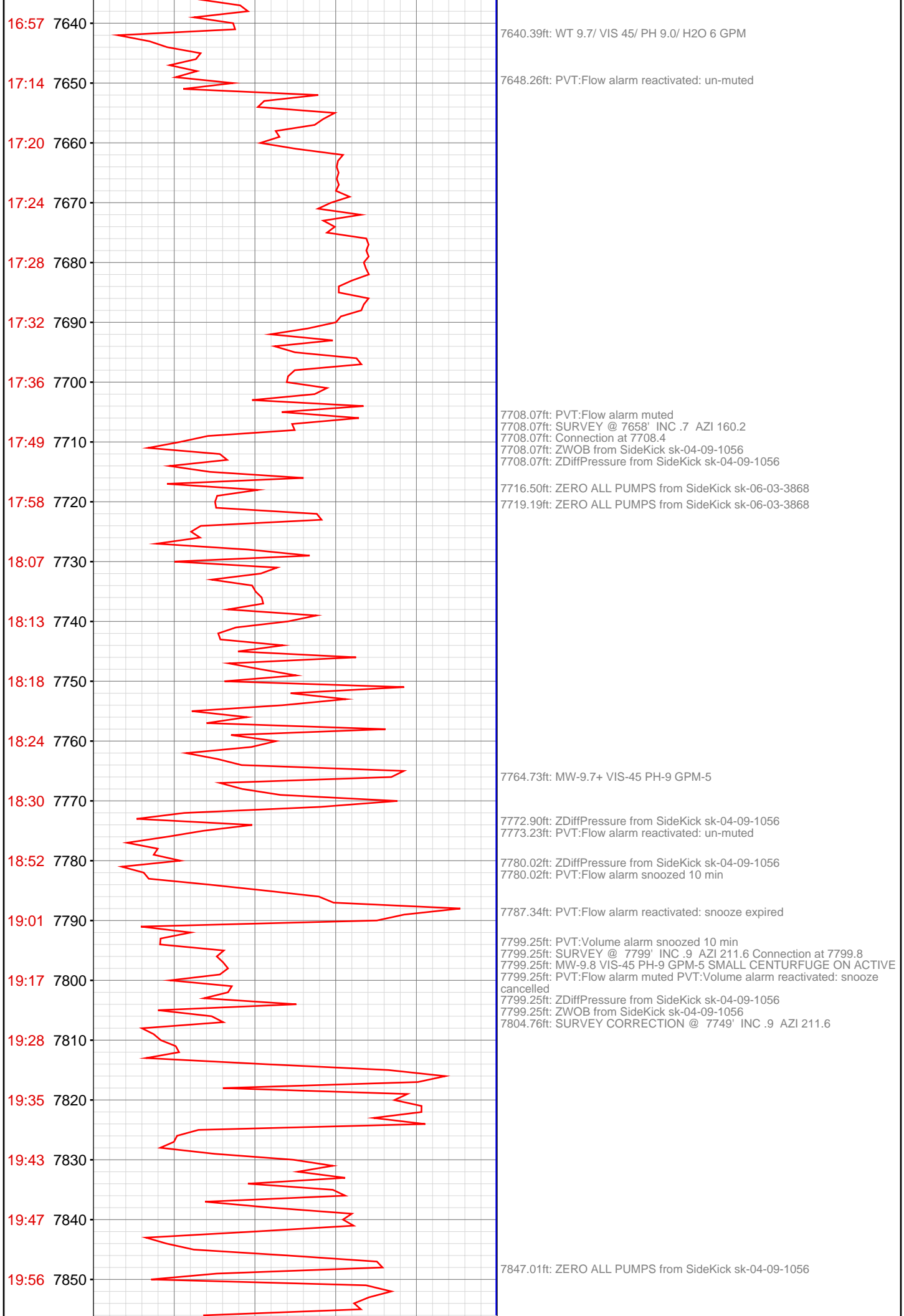
7425.49ft: WT 9.7/ VIS 43/ PH 9.1/ H2O 6 GPM
7430.32ft: PVT:Flow alarm muted
7430.32ft: ZWOB from SideKick sk-04-09-1056
7430.32ft: Connection at 7433.6
7430.32ft: SURVEY@7383 INC .7 AZM 145
7430.32ft: PVT:Flow alarm reactivated: un-muted

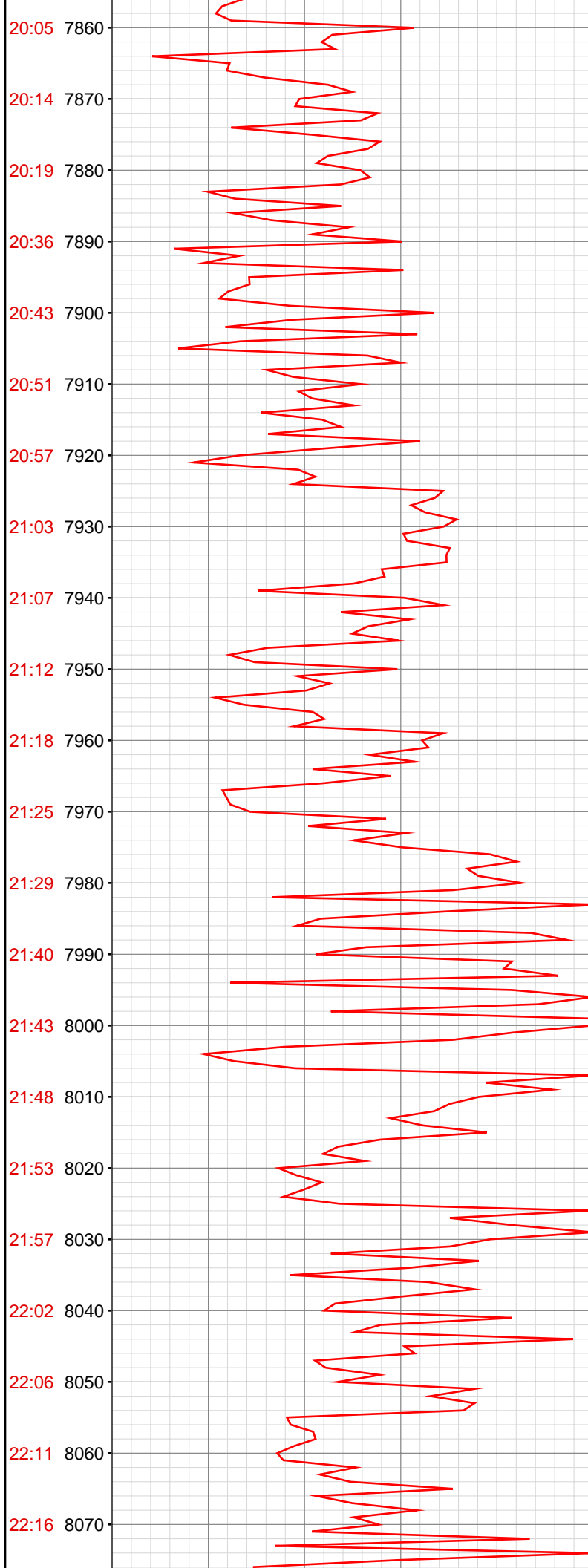
7498.43ft: WT 9.7/ VIS 44/ PH 8.8/ H2O 6 GPM

7521.56ft: Connection at 7525.2
7521.56ft: PVT:Flow alarm muted

7595.96ft: WT 9.7+/ VIS 45/ PH 8.8/ H2O 6 GPM
7597.90ft: SMALL CENTRIFUGE ON ACTIVE

7611.58ft: RIG SERVICE
7612.20ft: Connection at 7616.8
7612.20ft: SURVEY @ 7566 .9 INC 155.3 AZM
7612.20ft: ZDiffPressure from SideKick sk-04-09-1056
7612.20ft: IN TALLY: HOLE DEPTH SET TO 7616.8



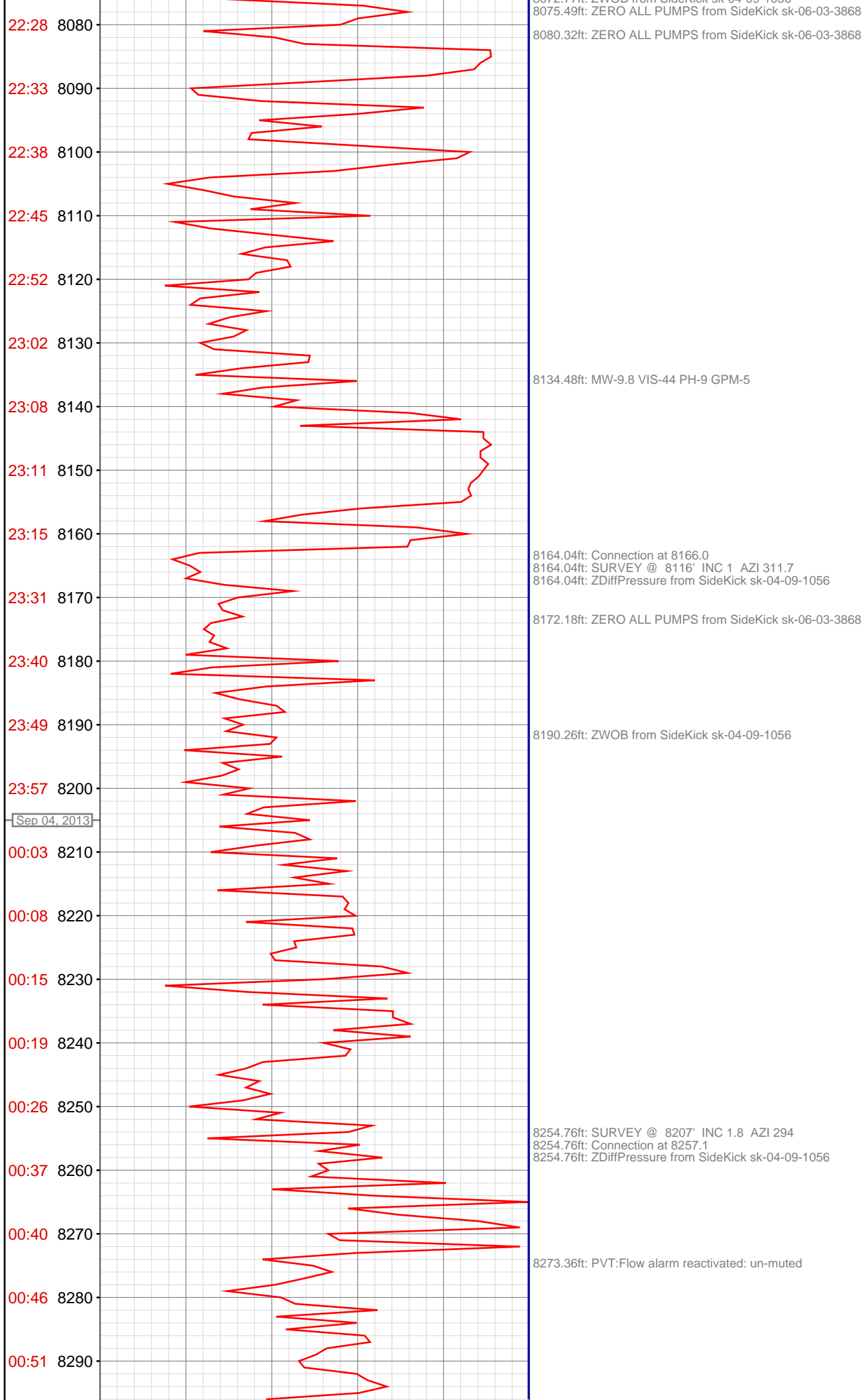


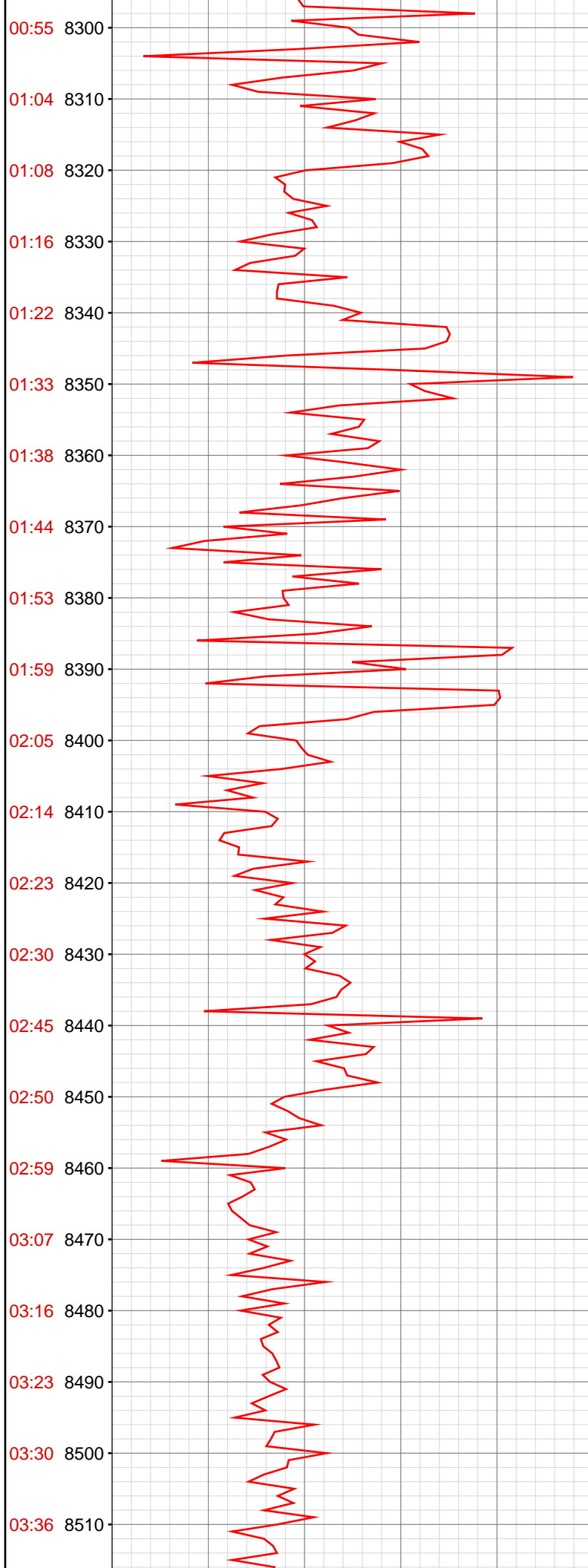
7857.28ft: ZDiffPressure from SideKick sk-04-09-1056

7890.91ft: MW-9.8 VIS-43 PH-9.1 GPM-5
7890.91ft: Connection at 7891.1
7890.91ft: SURVEY @ 7841' INC .6 AZI 251.6
7890.91ft: ZDiffPressure from SideKick sk-04-09-1056
7890.91ft: ZWOB from SideKick sk-04-09-1056
7894.32ft: ZERO ALL PUMPS from SideKick sk-06-03-3868

7981.99ft: Connection at 7982.8
7981.99ft: SURVEY @ 7932' INC .6 AZI 248
7981.99ft: ZDiffPressure from SideKick sk-04-09-1056
7985.27ft: MW-9.8 VIS-44 PH-9 GPM-5

8072.77ft: Connection at 8074.4
8072.77ft: SURVEY @ 8024' INC .7 AZI 291.2
8072.77ft: ZDiffPressure from SideKick sk-04-09-1056
8072.77ft: ZWOB from SideKick sk-04-09-1056





8303.67ft: MW-9.8+ VIS-44 PH-8.9 GPM-5

8346.26ft: PVT:Flow alarm snoozed 10 min
8346.26ft: Connection at 8348.9
8346.26ft: SURVEY @ 8298' INC 1.7 AZI 271.1
8346.26ft: PVT:Volume alarm snoozed 10 min
8346.26ft: ZDiffPressure from SideKick sk-04-09-1056
8346.26ft: ZWOB from SideKick sk-04-09-1056

8358.46ft: PVT:Volume alarm reactivated: snooze expired
8359.58ft: PVT:Flow alarm reactivated: snooze expired

8391.44ft: ZDiffPressure from SideKick sk-04-09-1056

8437.60ft: PVT:Flow and volume alarm snoozed 10 min
8437.60ft: SURVEY @ 8389' INC 2.3 AZI 264.9 Connection at 8440.0
8437.60ft: ZDiffPressure from SideKick sk-04-09-1056
8437.60ft: ZWOB from SideKick sk-04-09-1056
8437.60ft: ZDiffPressure from SideKick sk-04-09-1056
8442.22ft: PVT:Flow and volume alarm reactivated: snooze expired
8445.54ft: ZERO ALL PUMPS from SideKick sk-06-03-3868

8452.13ft: MW-9.8+ VIS-43 PH-8.9 GPM-5

