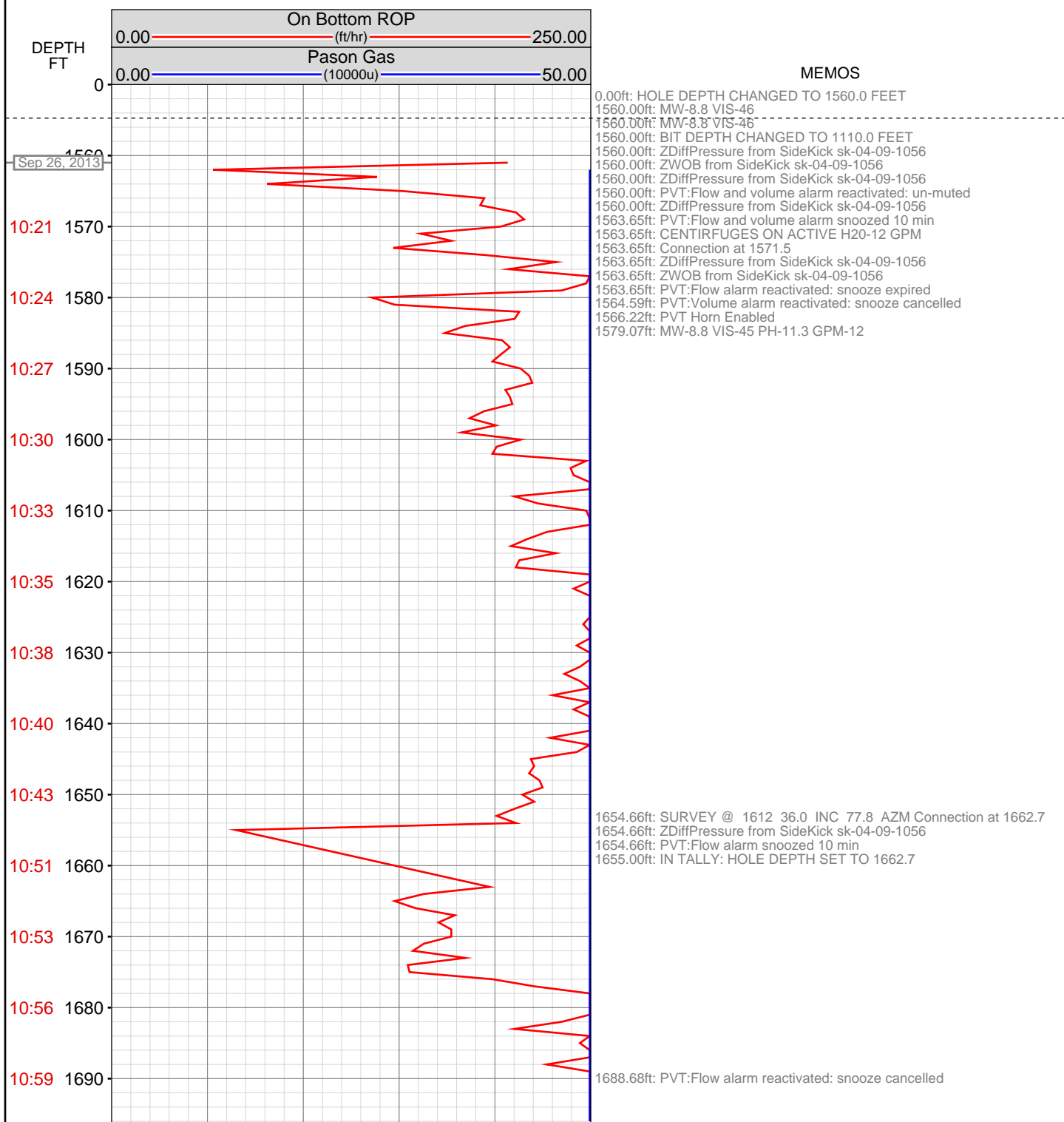
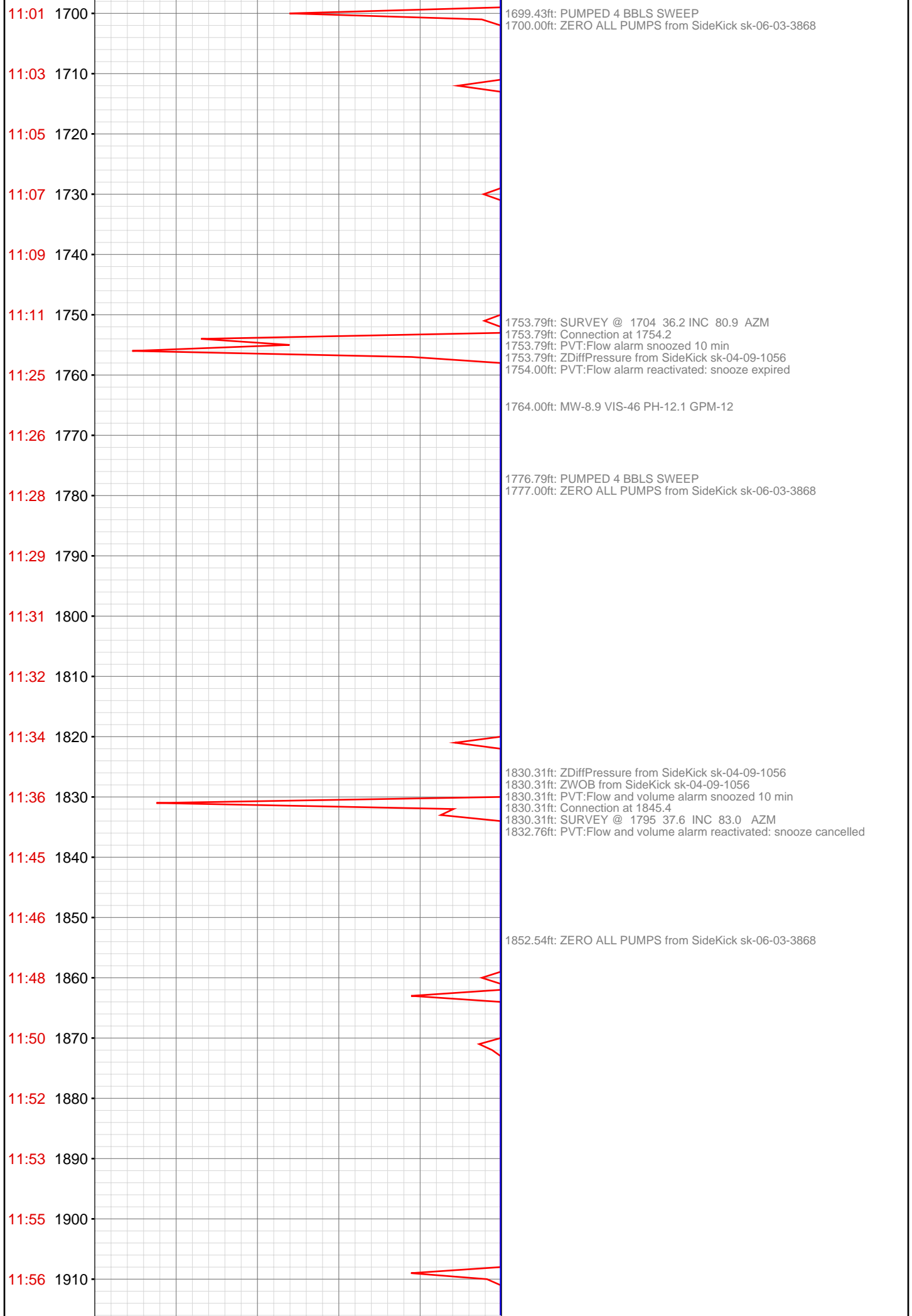
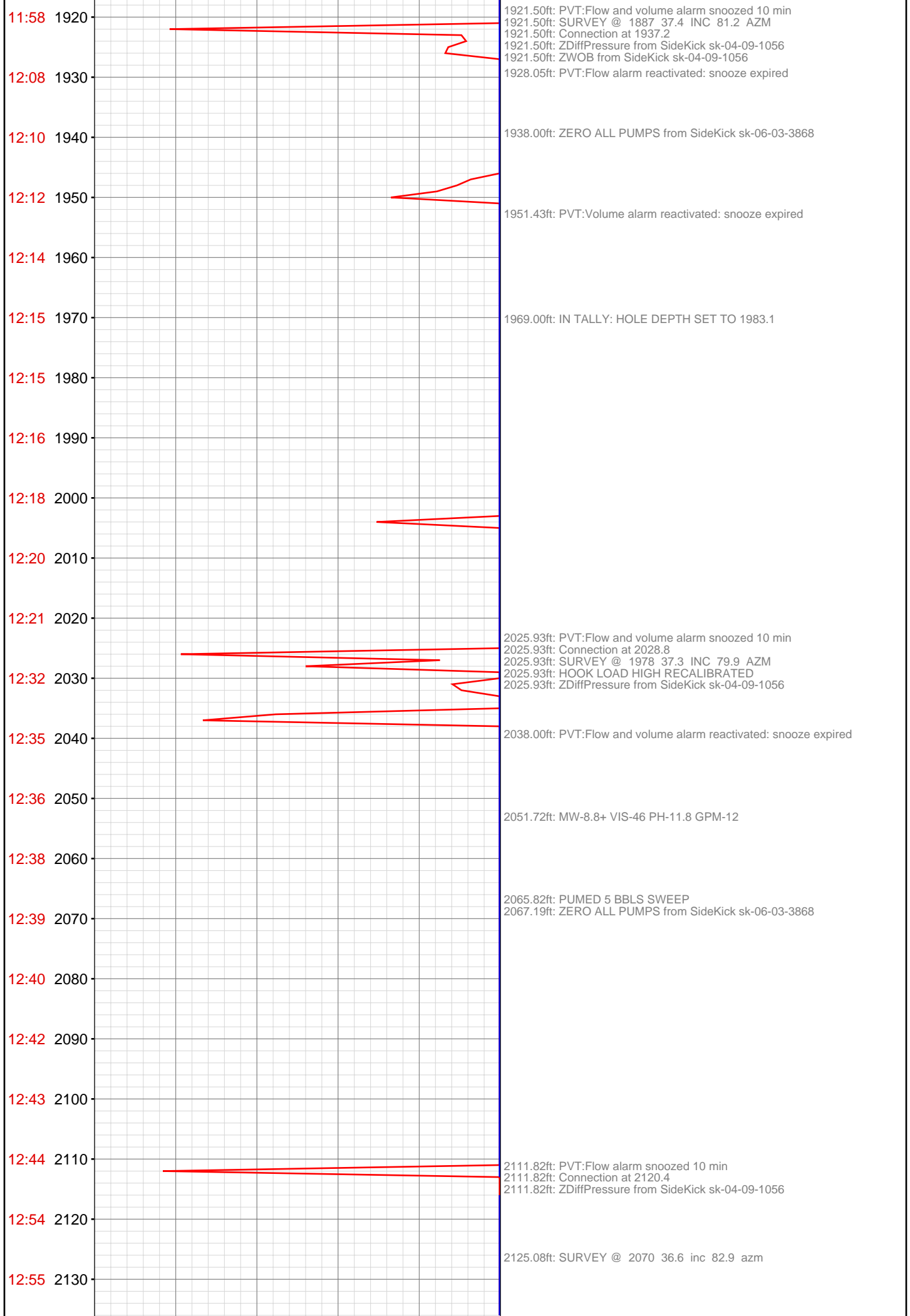


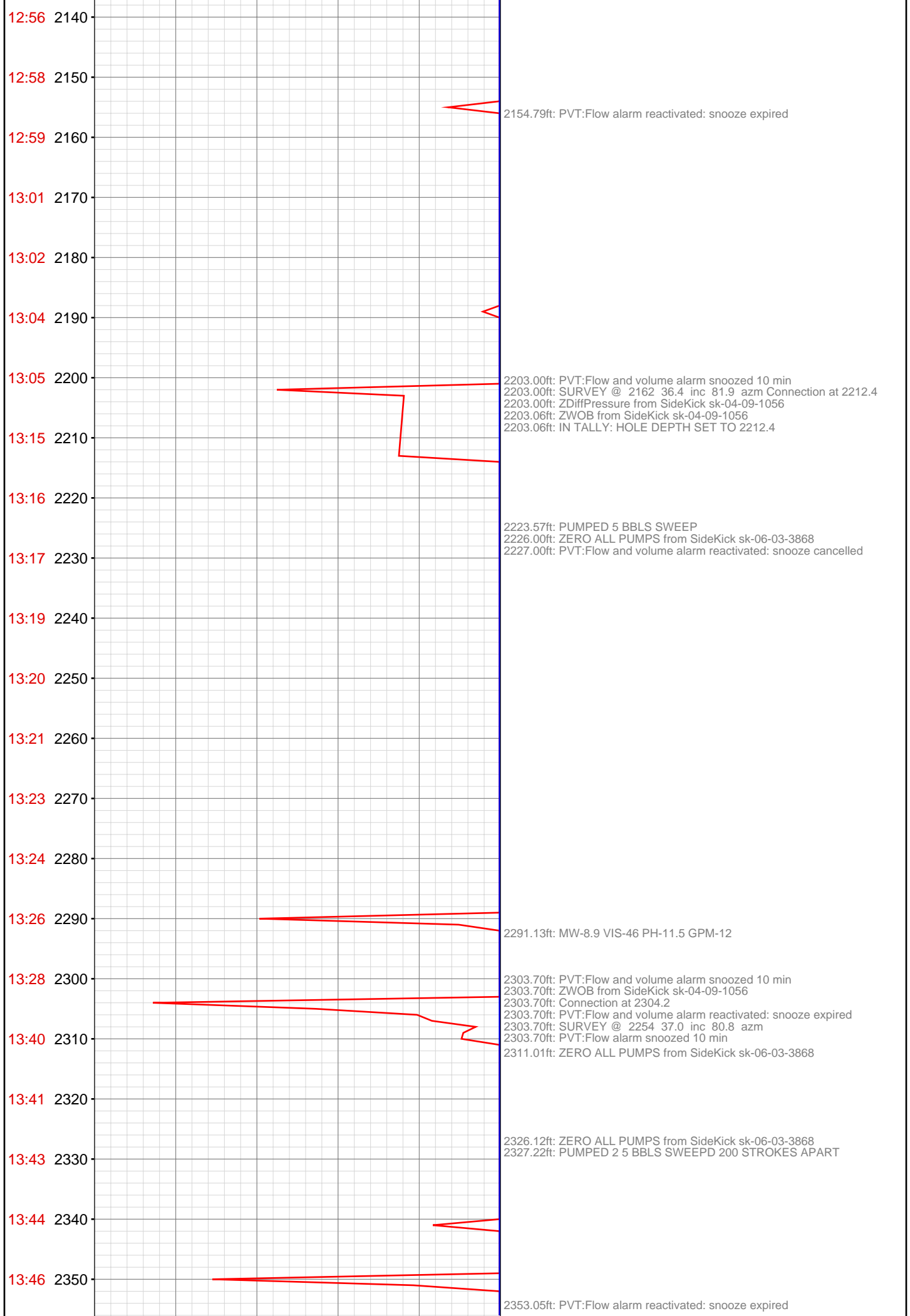
OPERATOR: EnCana Oil & Gas (USA), Inc.
WELL: Hagen Federal 22-1A
FIELD:
LOCATION:
COUNTRY: USA
RIG: Pat-UTI 303

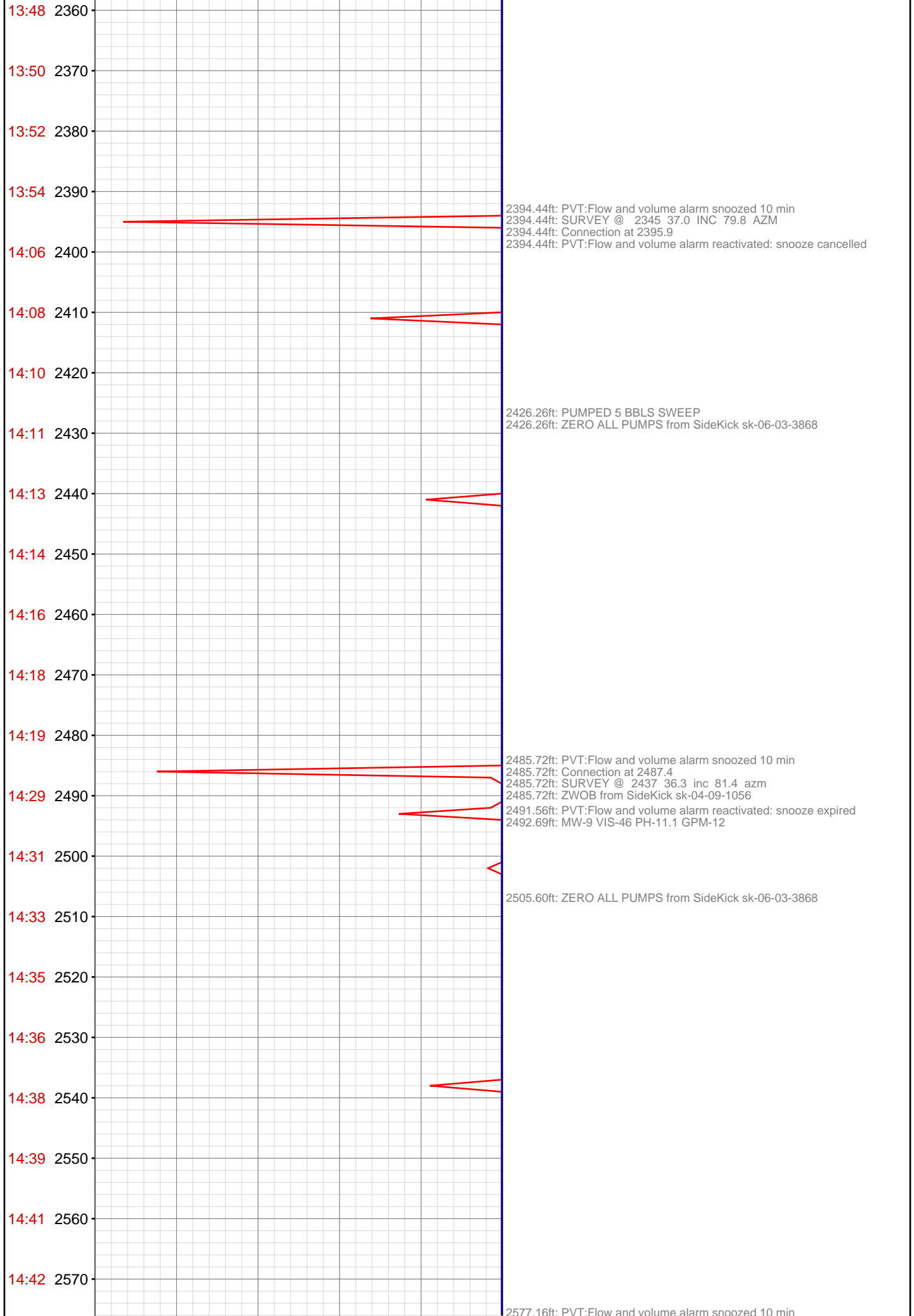
CONTRACTOR: Patterson-UTI Drilling Company
UNIQUE WELL ID: 05-045-22016
SPUD DATE: Sep 26, 2013 10:00
RELEASE DATE: Sep 30, 2013 21:00

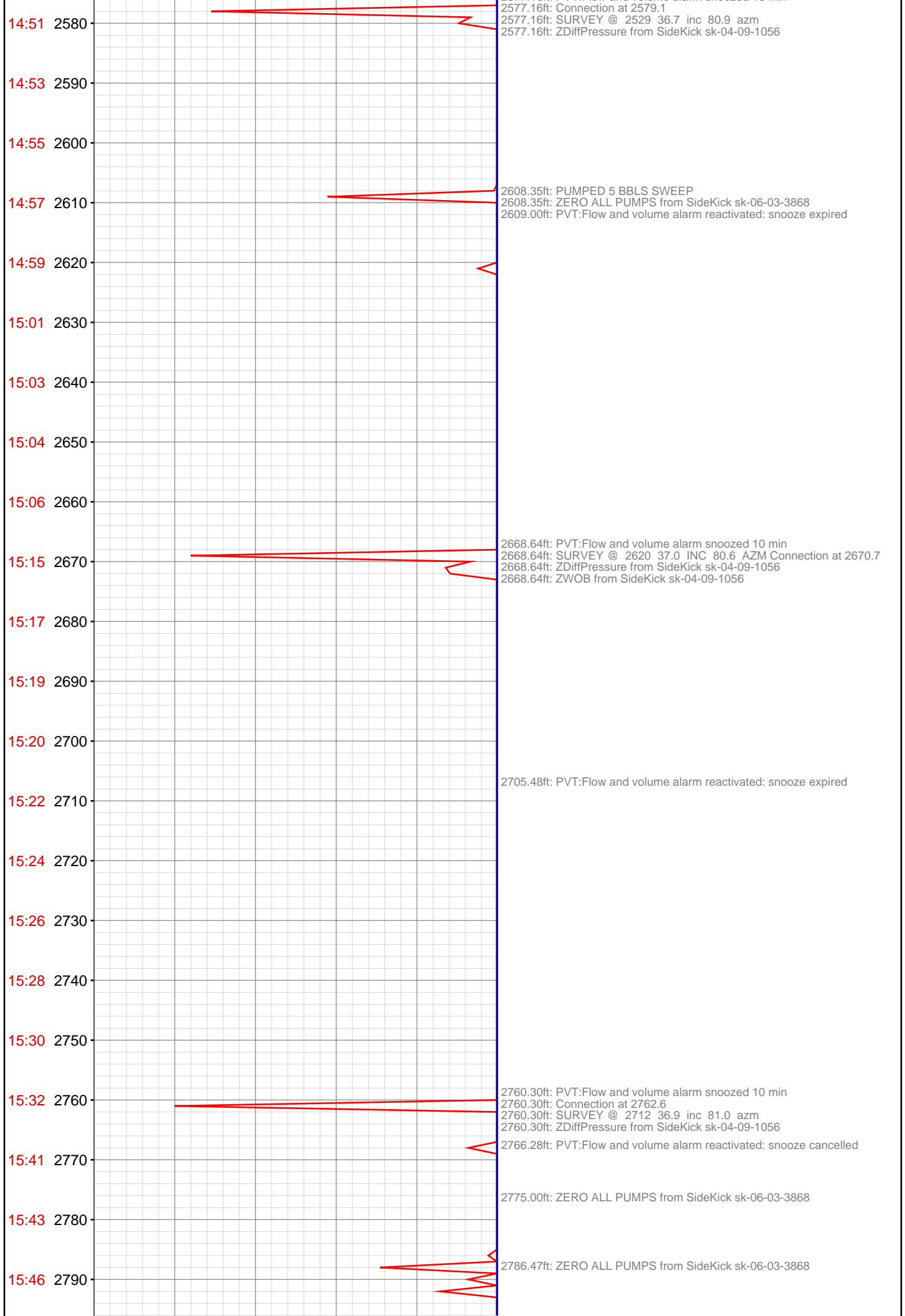


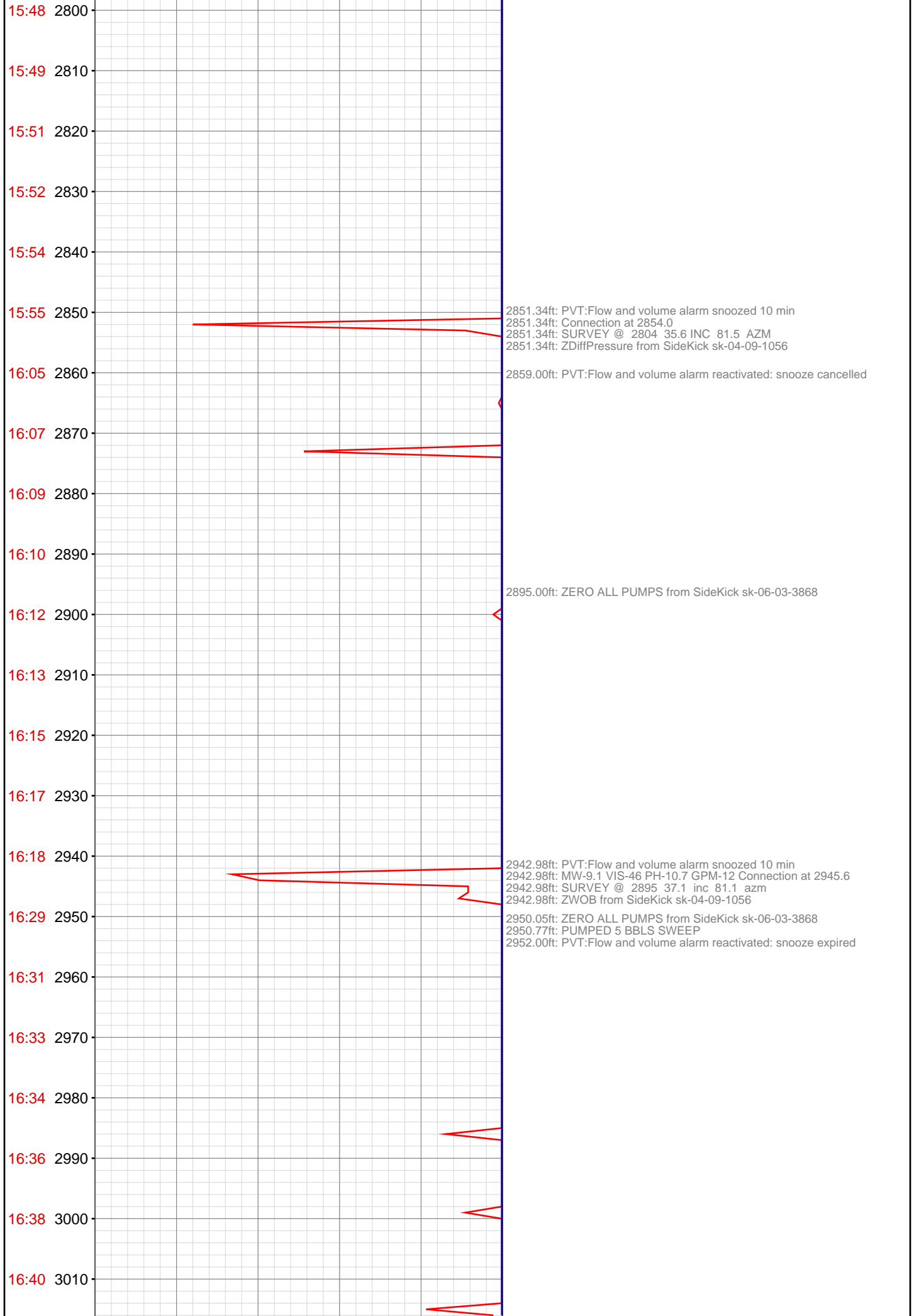


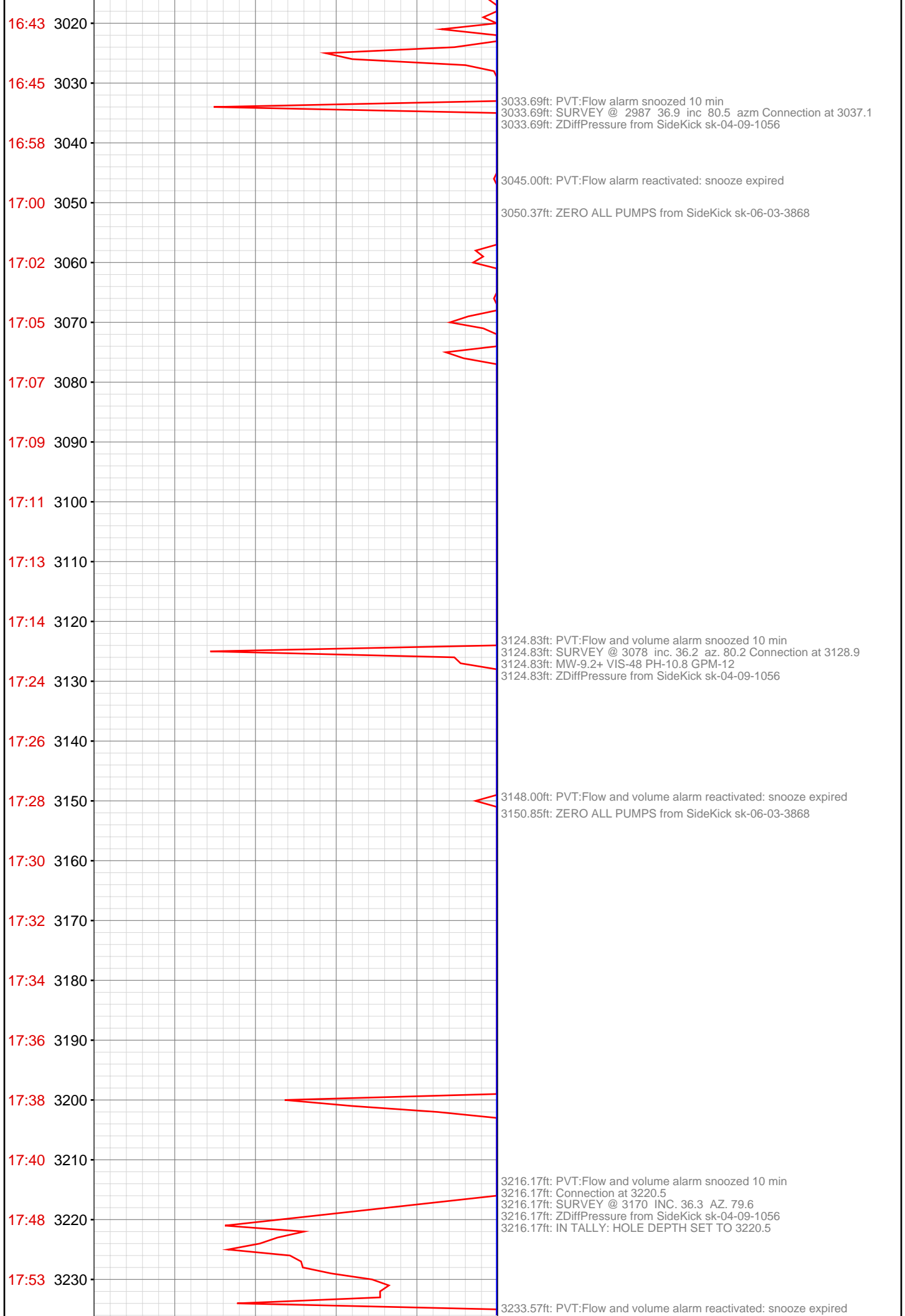


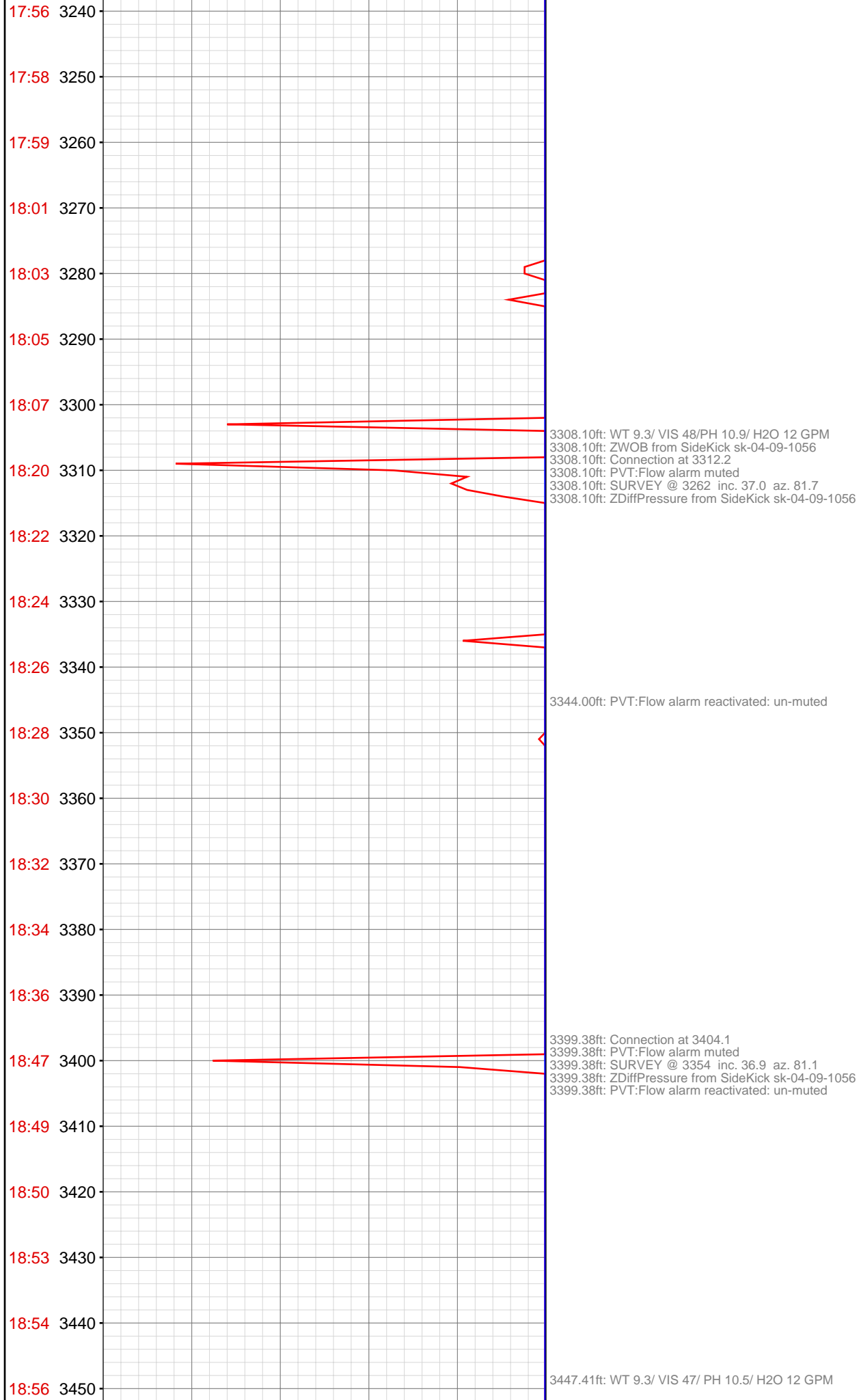




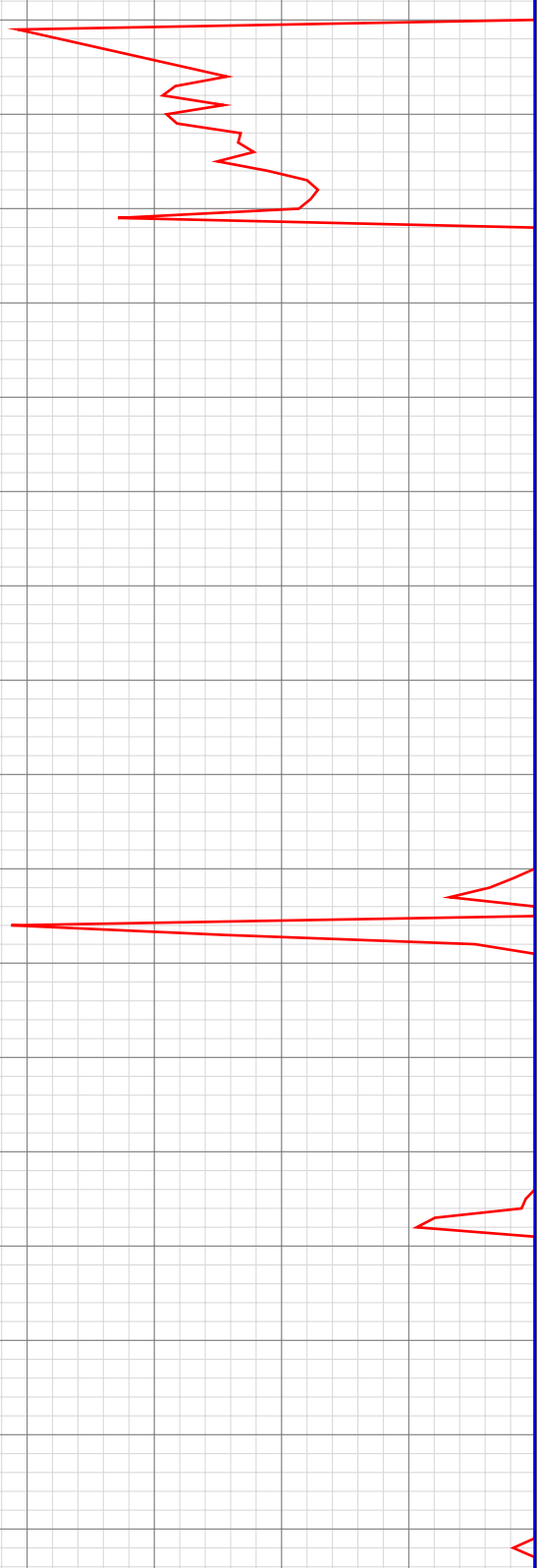








18:58 3460
19:00 3470
19:01 3480
19:12 3490
19:15 3500
19:19 3510
19:21 3520
19:23 3530
19:25 3540
19:27 3550
19:29 3560
19:30 3570
19:33 3580
19:46 3590
19:47 3600
19:49 3610
19:51 3620
19:53 3630
19:55 3640
19:57 3650
19:59 3660
20:00 3670



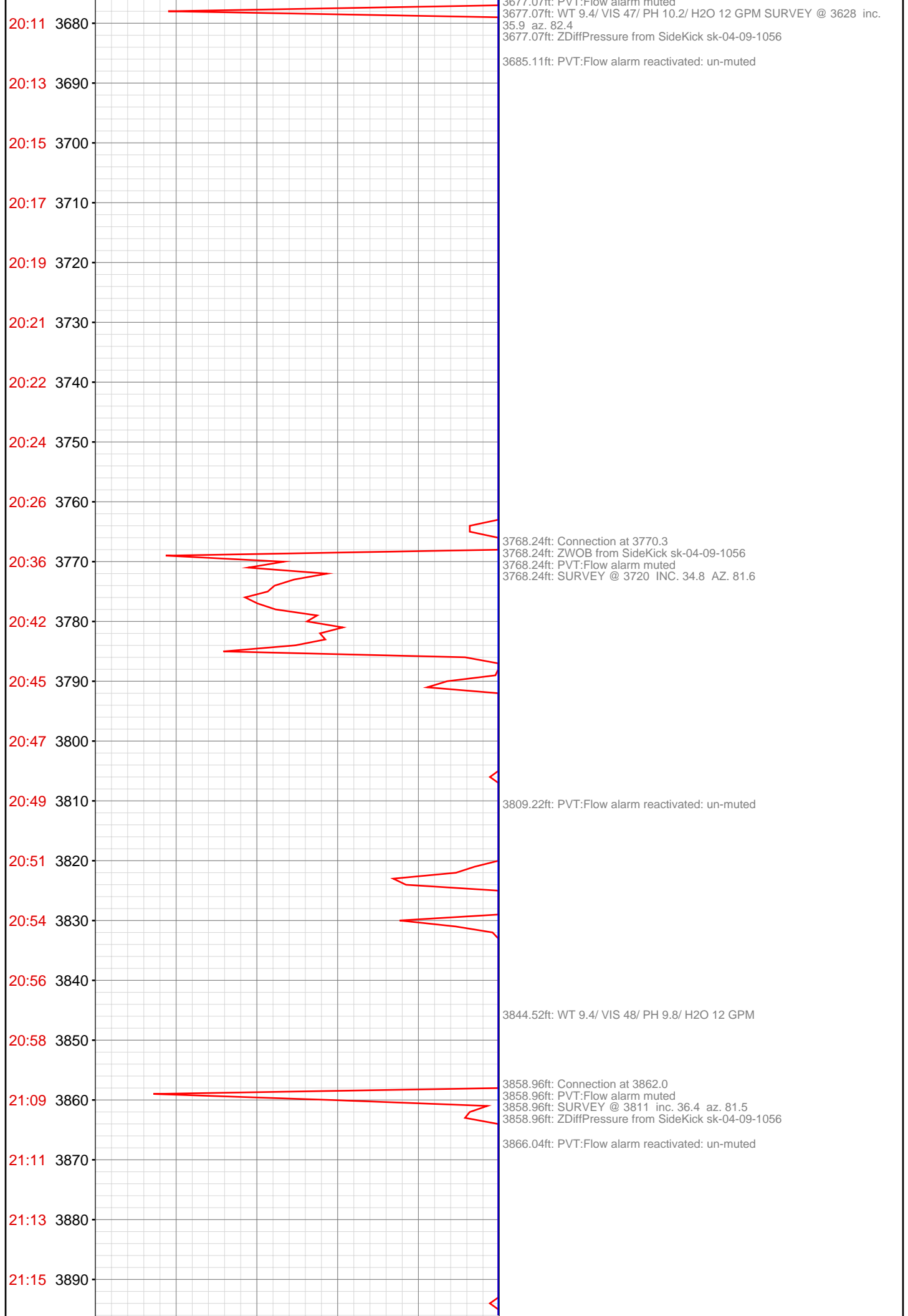
3490.58ft: Connection at 3495.4
3490.58ft: PVT:Flow alarm muted
3490.58ft: SURVEY @ n3445 inc. 36.9 az. 80.1
3491.37ft: IN TALLY: HOLE DEPTH SET TO 3495.4

3519.00ft: PVT:Flow alarm reactivated: un-muted

3585.93ft: ZWOB from SideKick sk-04-09-1056
3585.93ft: PVT:Flow alarm muted
3585.93ft: Connection at 3587.0
3585.93ft: SURVEY @ 3536 inc. 36.4 az. 83.3
3585.93ft: ZDiffPressure from SideKick sk-04-09-1056

3610.01ft: PVT:Flow alarm reactivated: un-muted

3677.07ft: Connection at 3678.7



21:17 3900

21:19 3910

21:21 3920

21:24 3930

21:26 3940

21:27 3950

21:41 3960

21:45 3970

21:47 3980

21:49 3990

21:51 4000

21:53 4010

21:55 4020

21:57 4030

21:59 4040

22:10 4050

22:12 4060

22:14 4070

22:16 4080

22:18 4090

22:20 4100

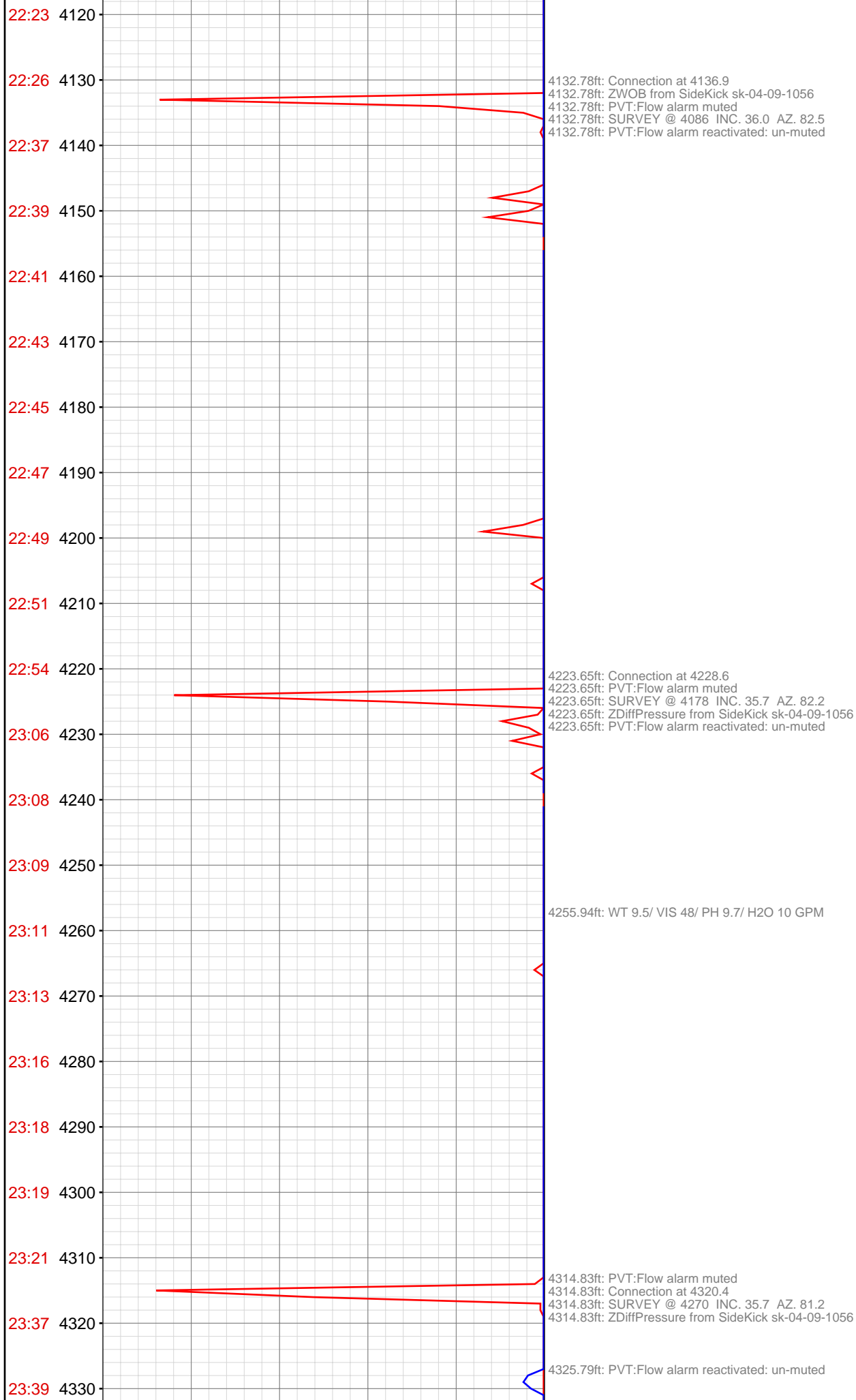
22:22 4110

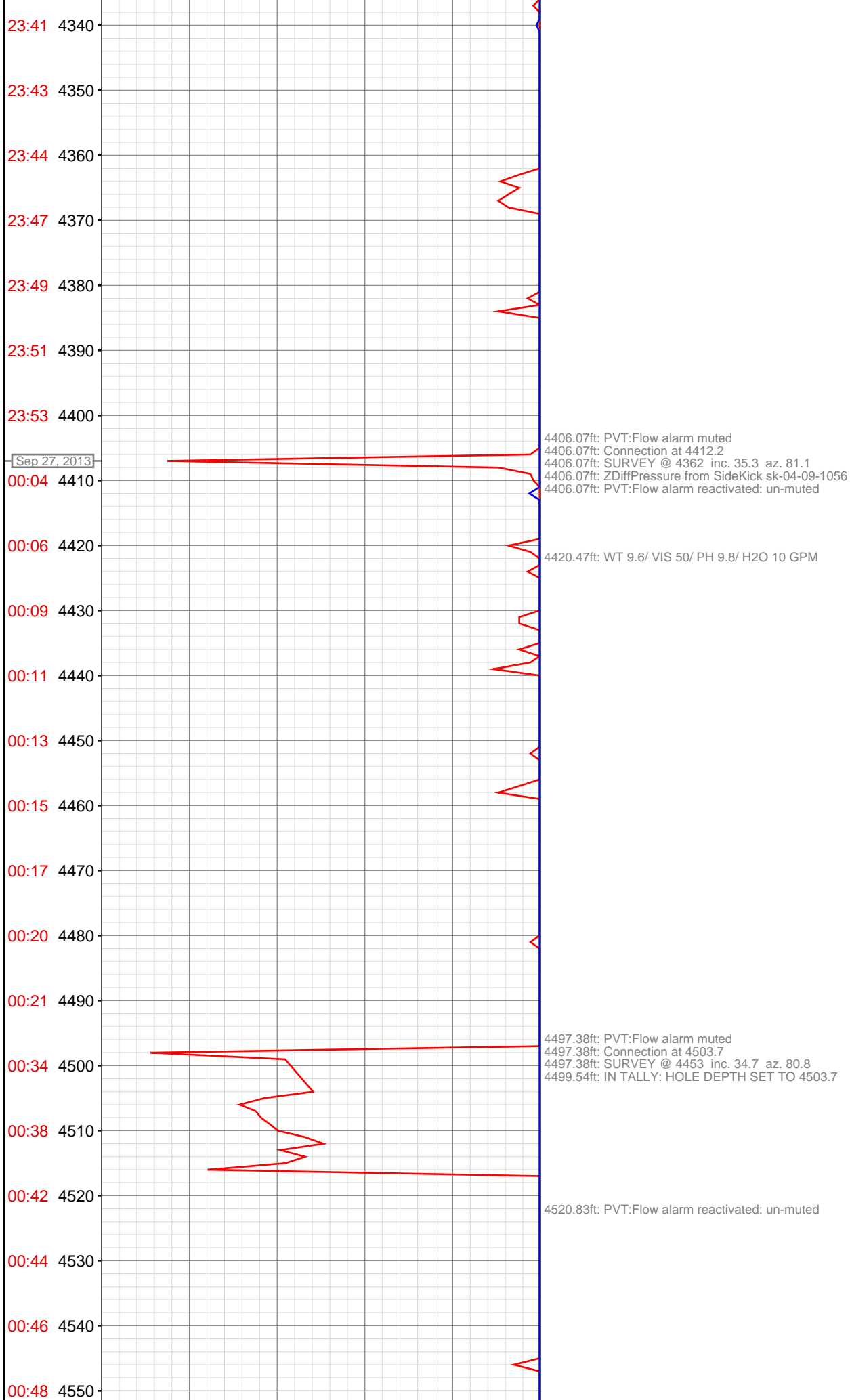
3950.46ft: Connection at 3953.6
3950.46ft: PVT:Flow alarm muted
3950.46ft: SURVEY @ 3903 inc. 35.5 az. 81.3

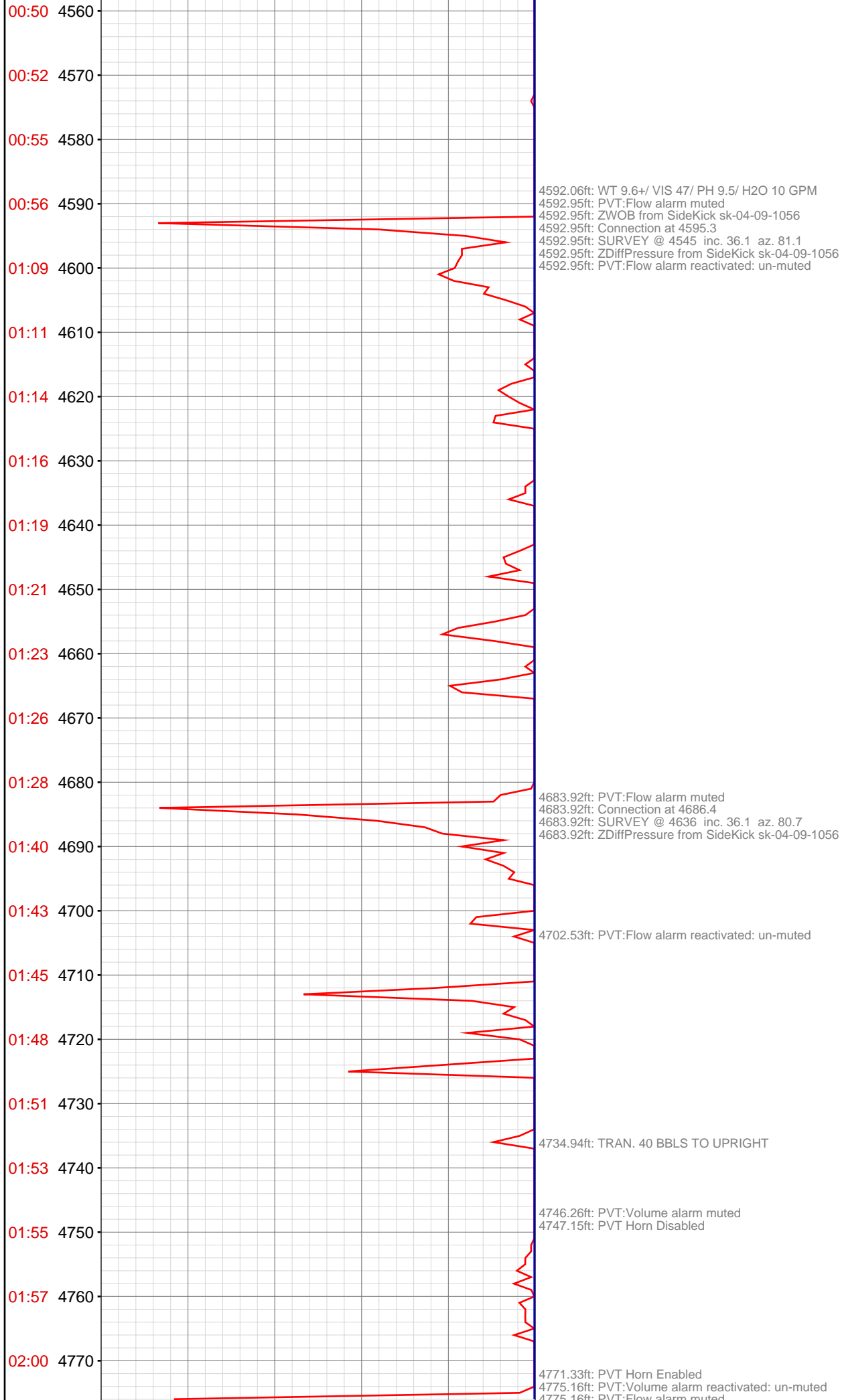
3970.01ft: PVT:Flow alarm reactivated: un-muted

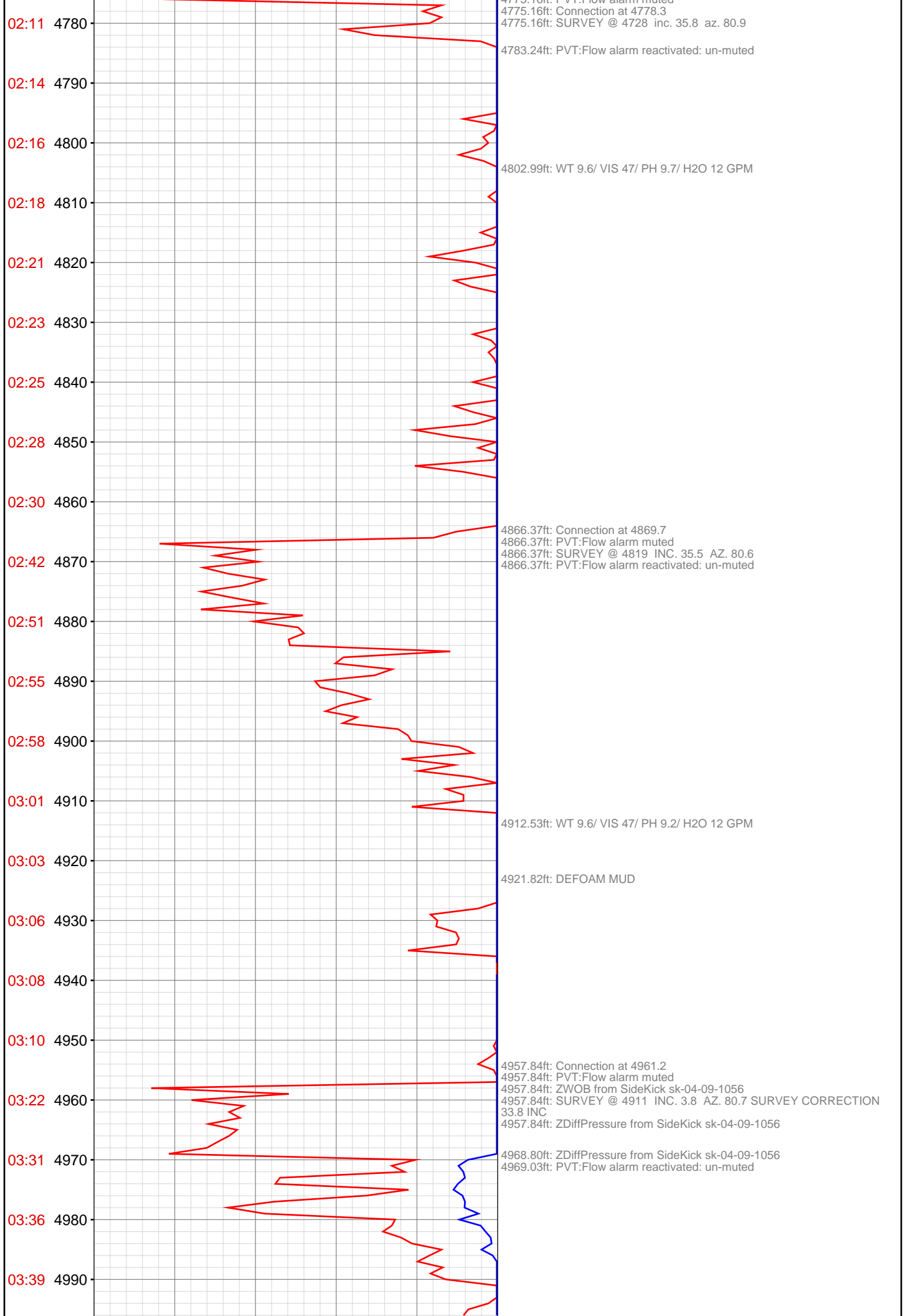
4041.47ft: Connection at 4045.5
4041.47ft: PVT:Flow alarm muted
4041.47ft: SURVEY @ 3995 inc. 36.1 az. 82.6
4045.01ft: PVT:Flow alarm reactivated: un-muted

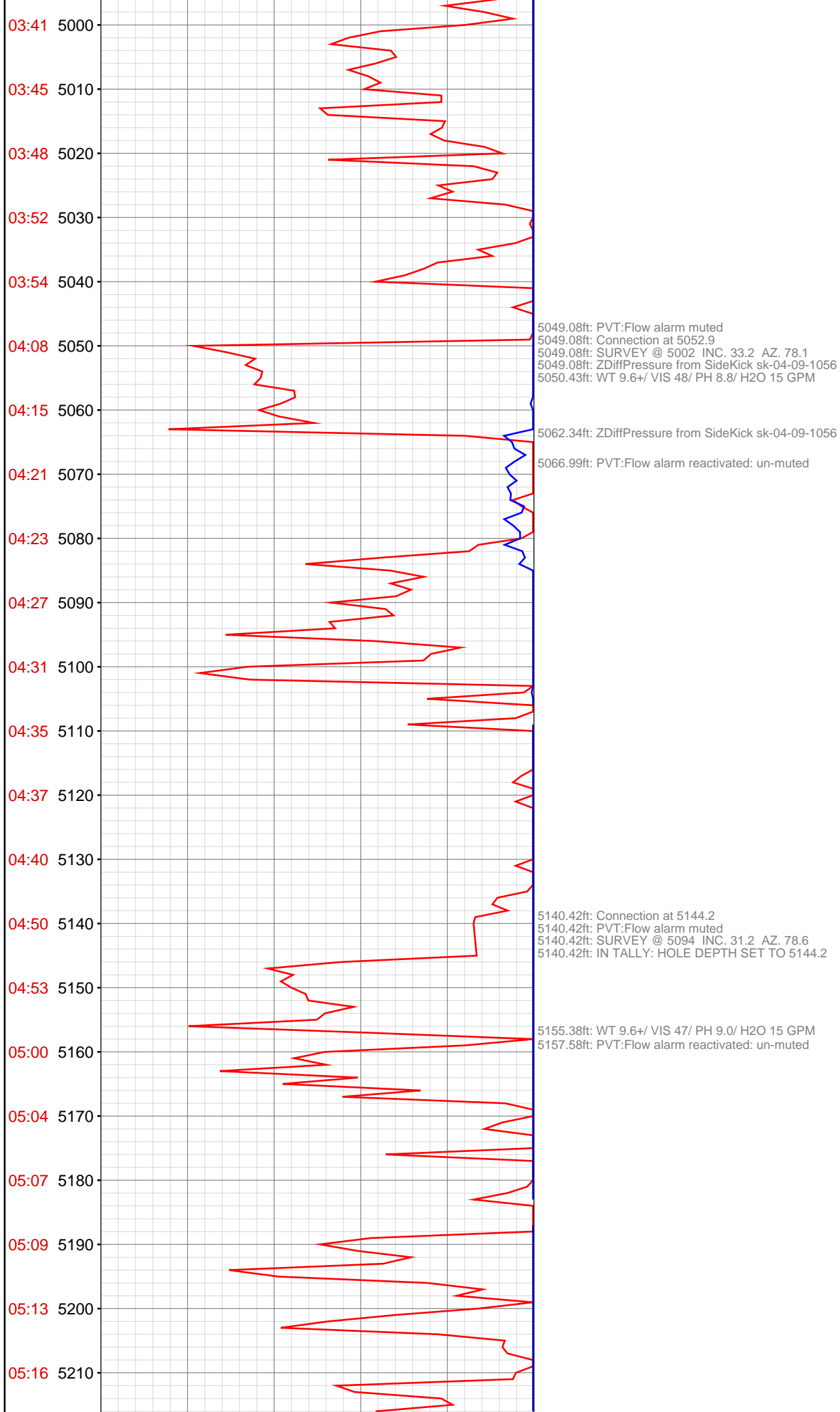
4063.88ft: WT 9.5/ VIS 49/ PH 9.8/ H2O 12 GPM

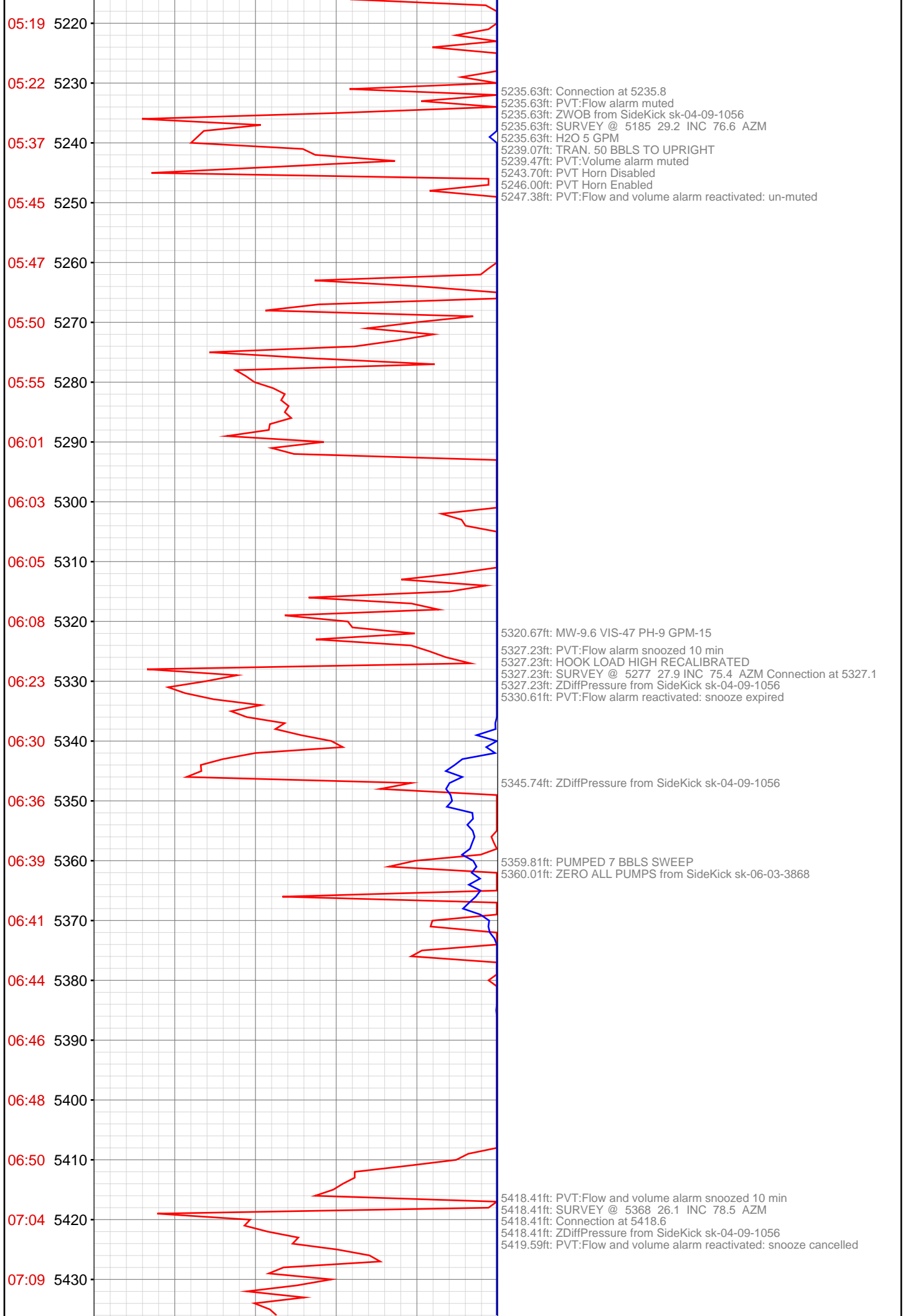


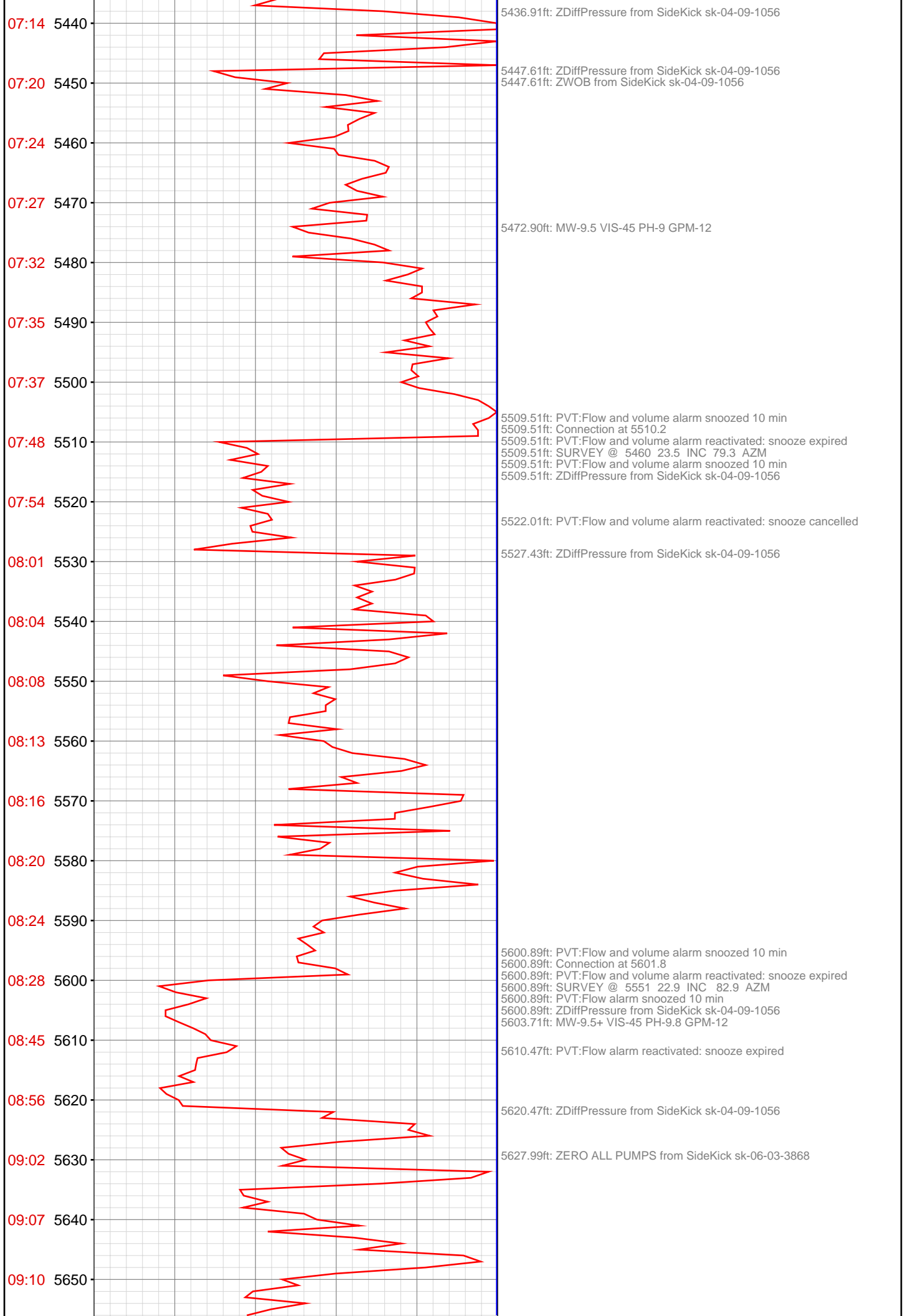


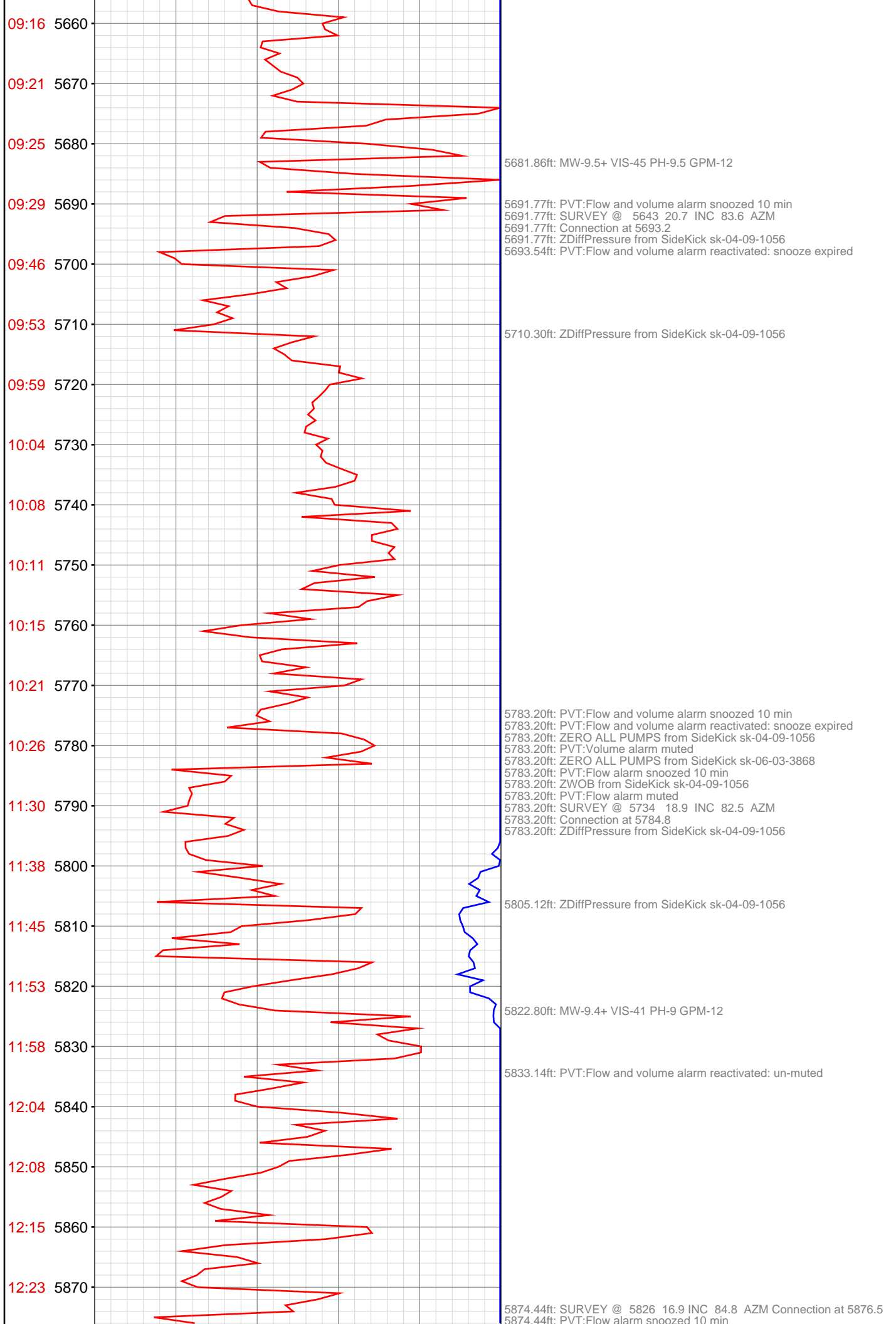


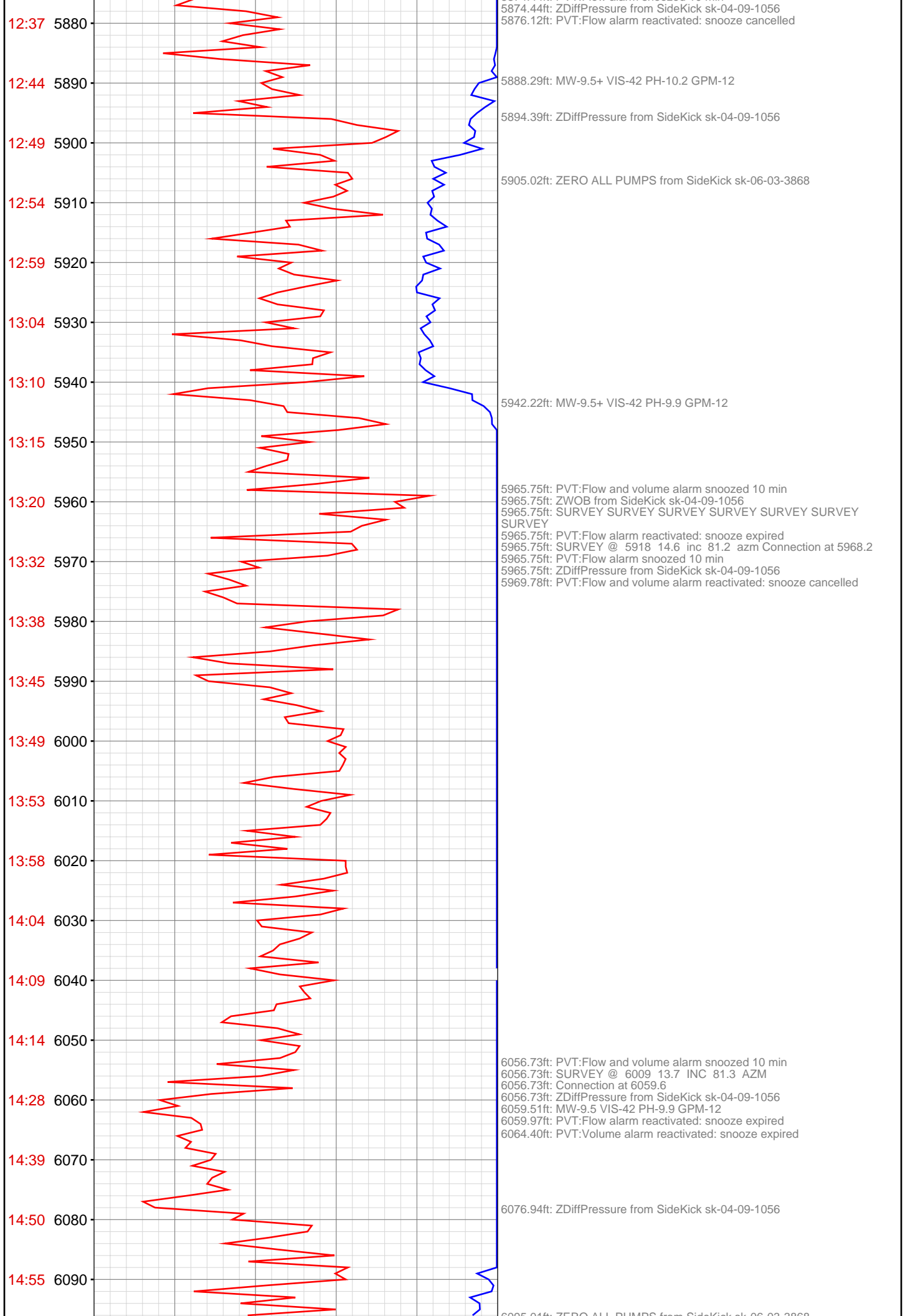


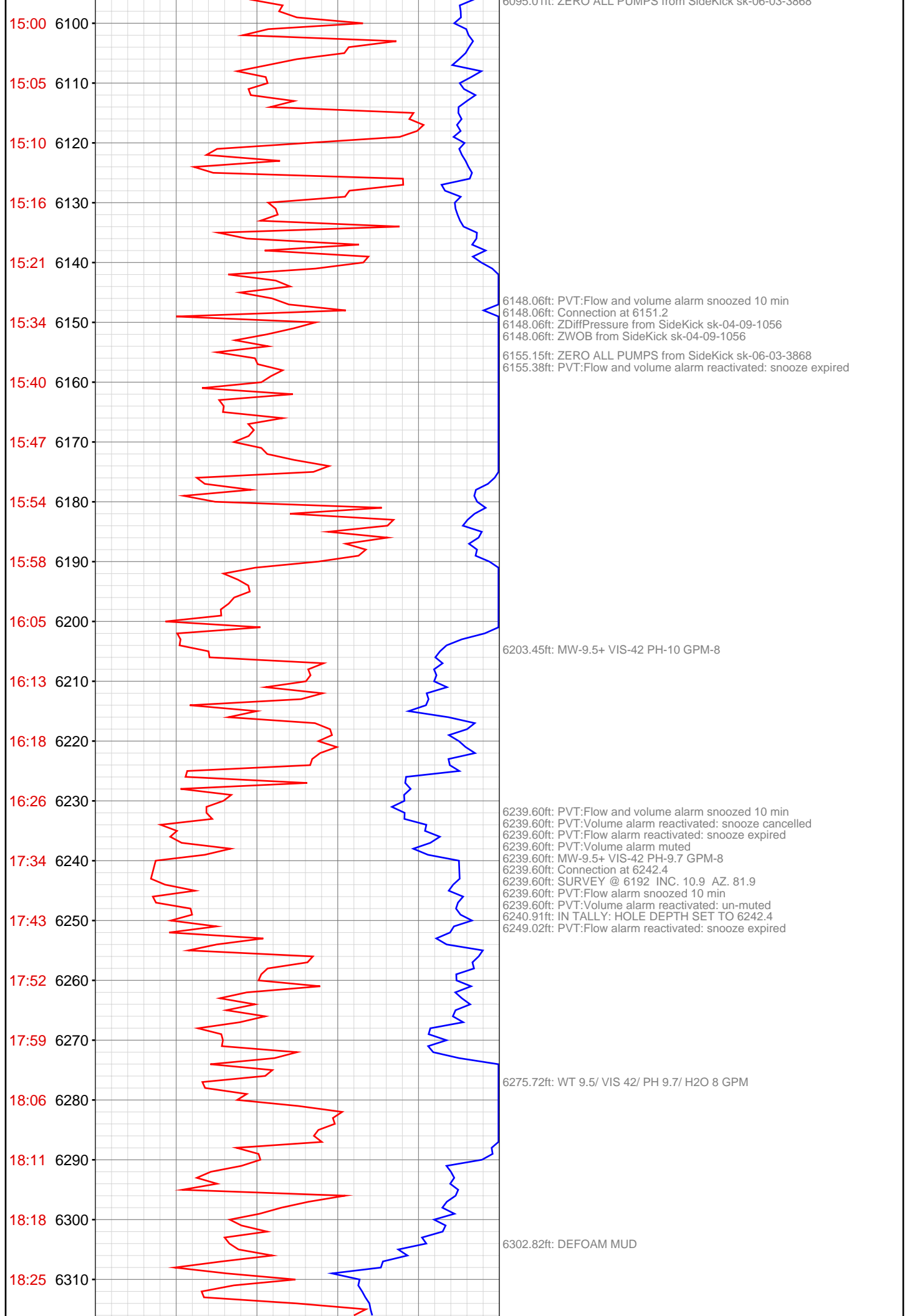


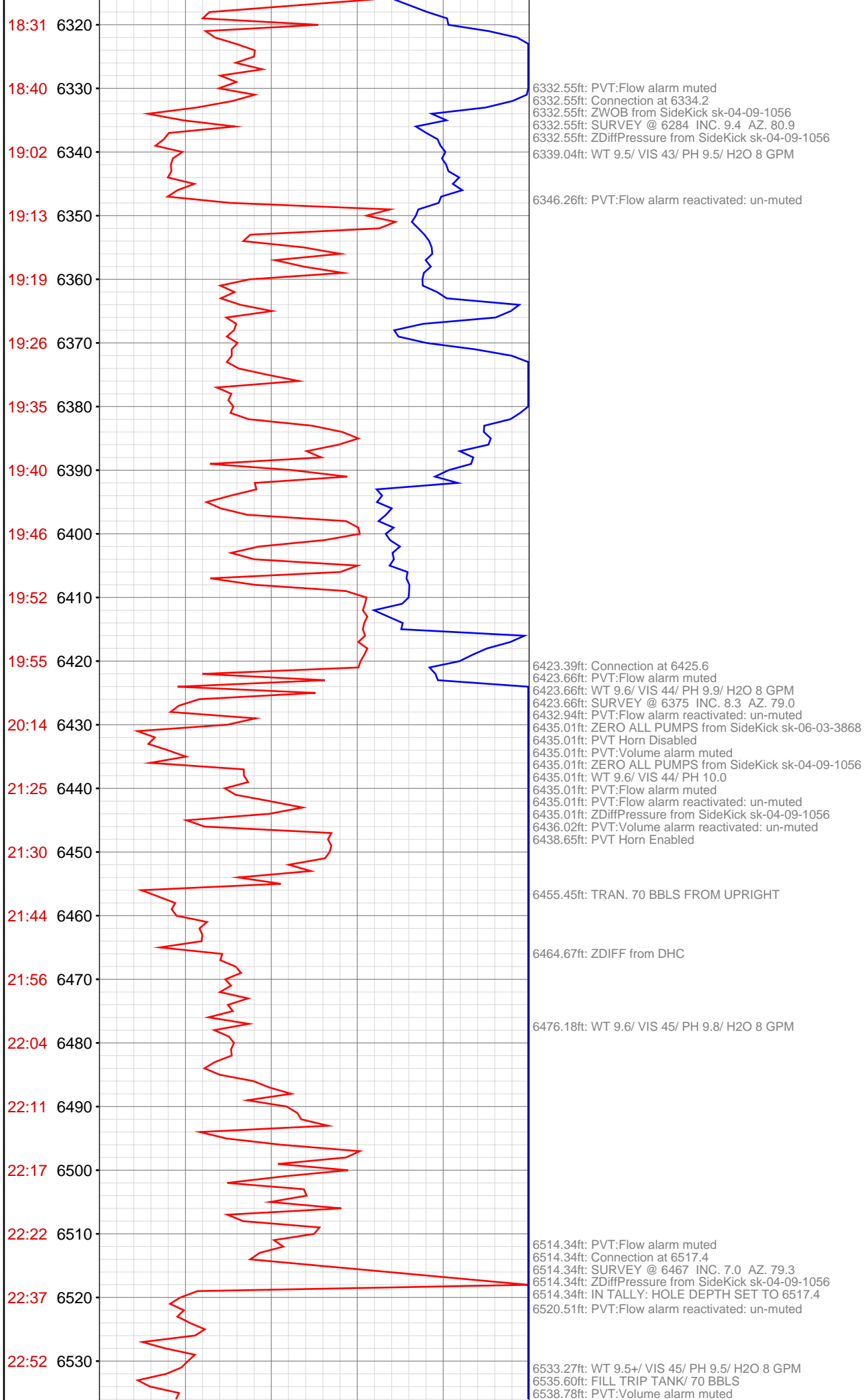


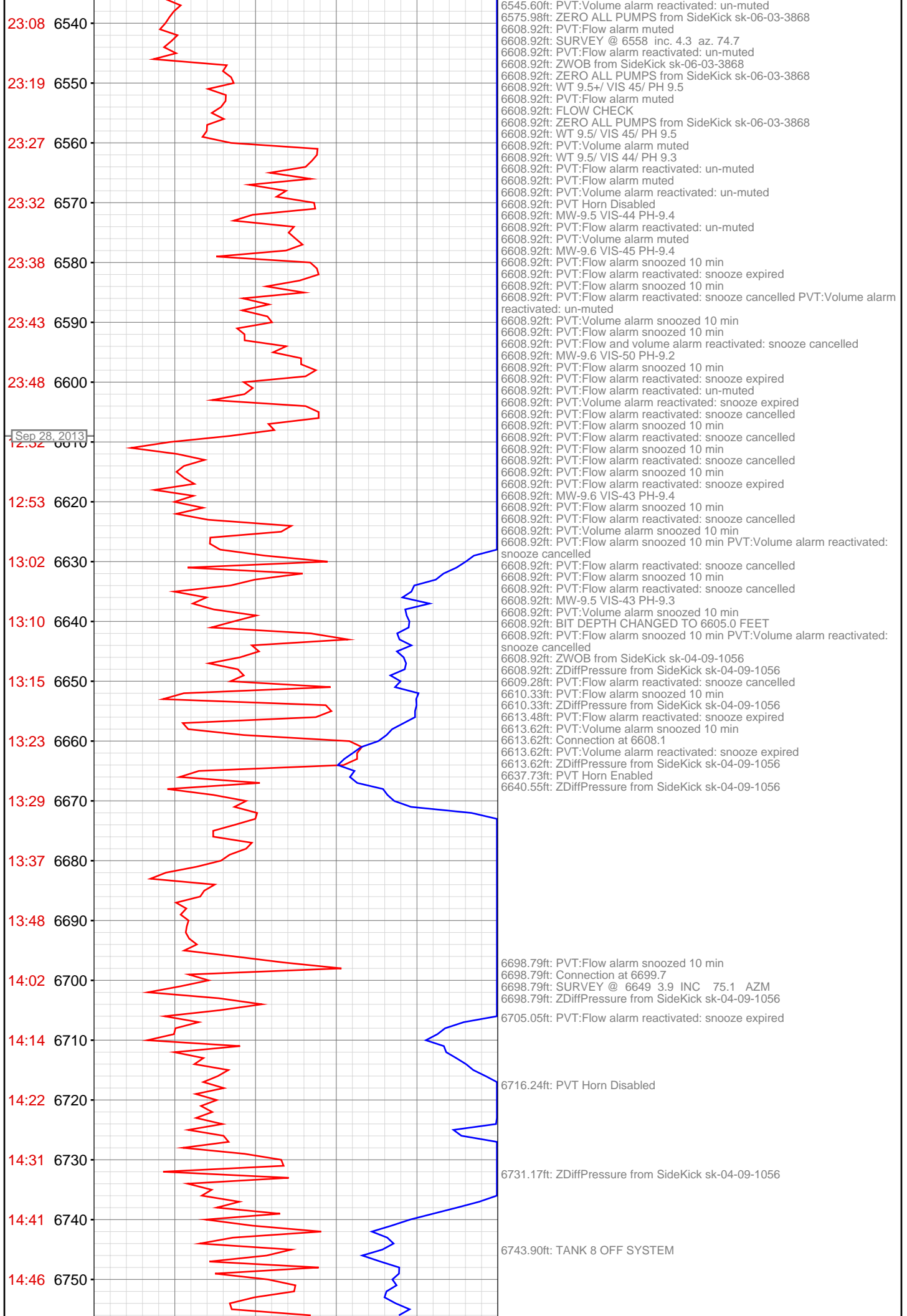


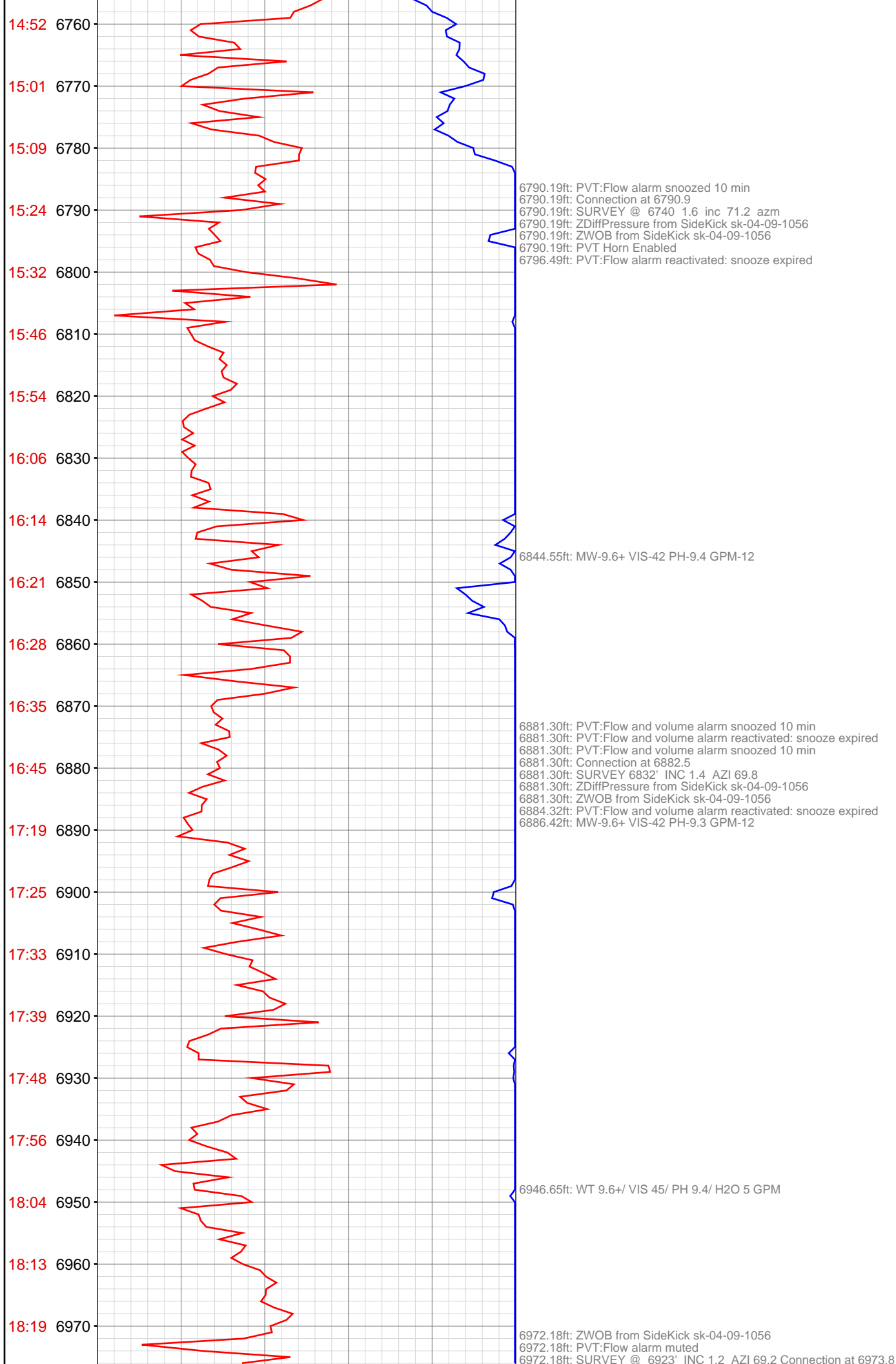


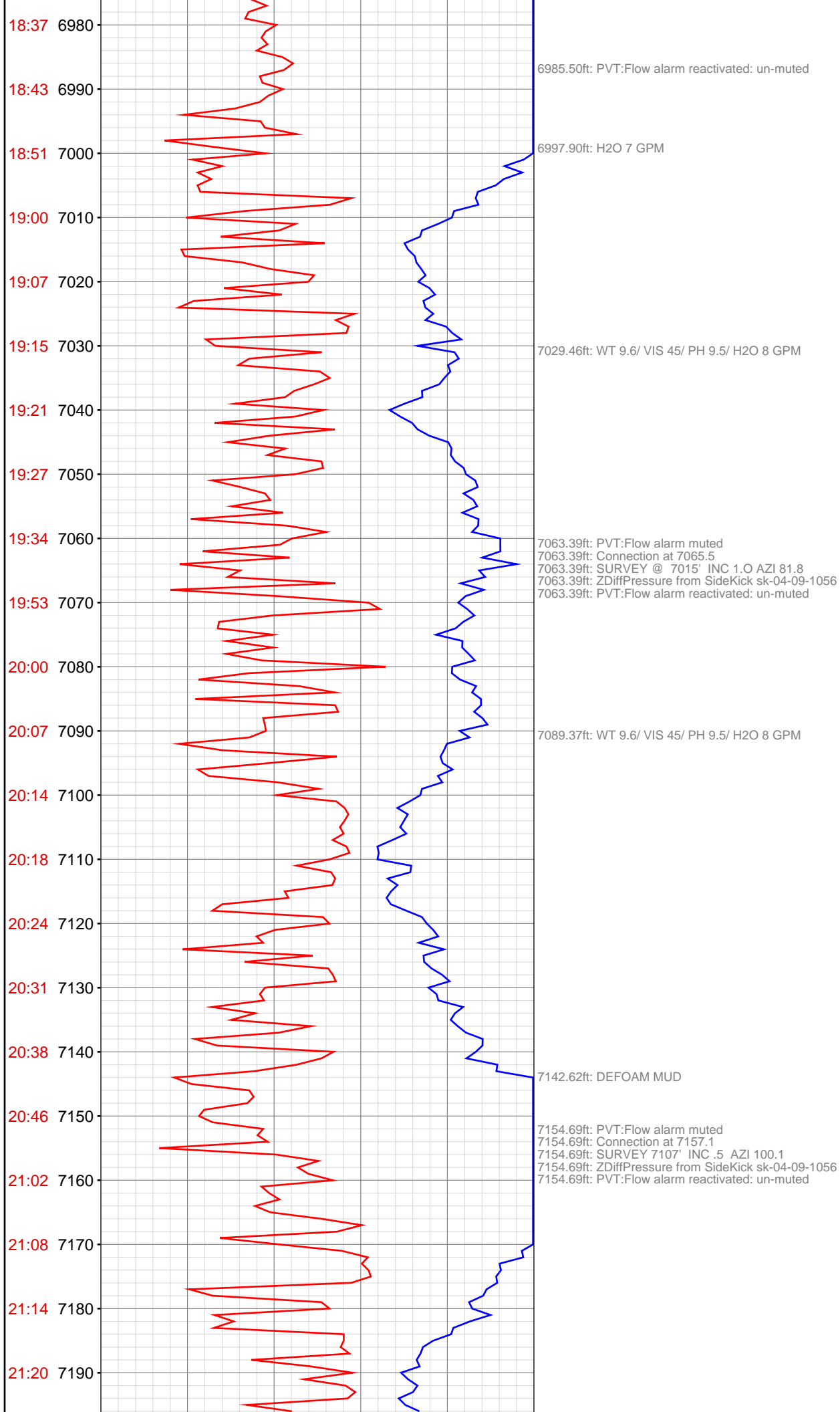


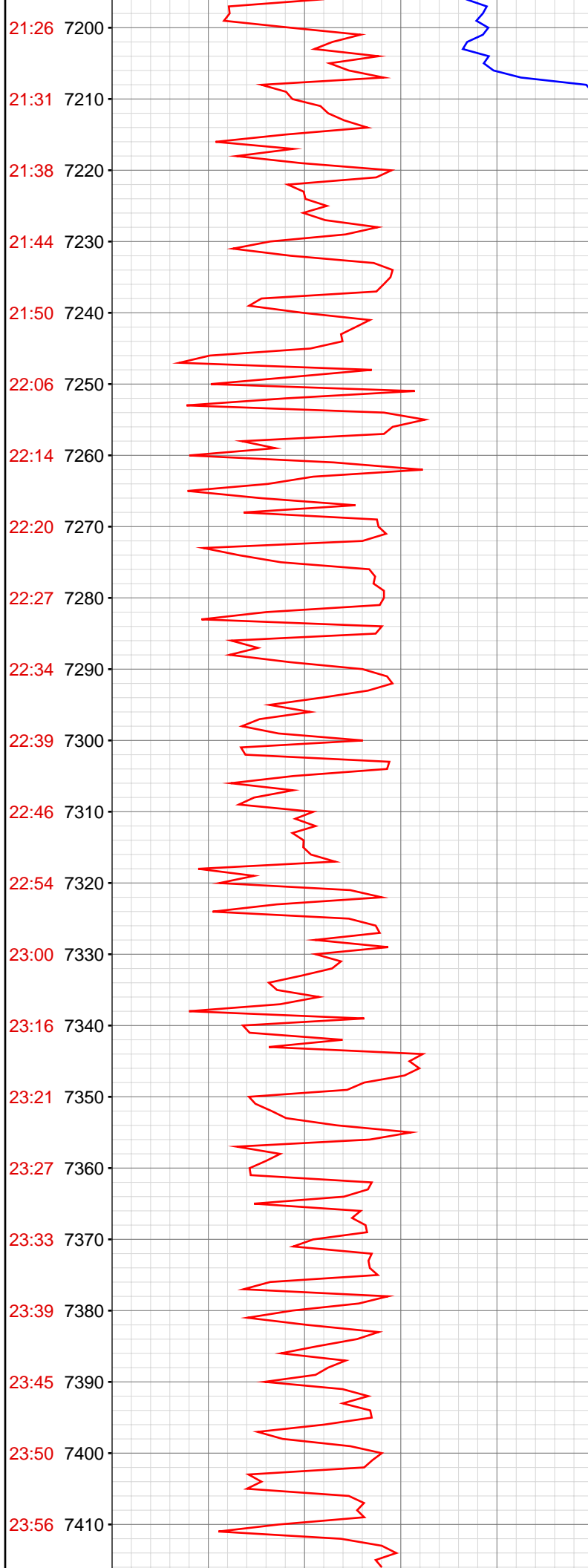












7223.00ft: WT 9.6/ VIS 43/ PH 9.9/ H2O 8 GPM

7246.13ft: PVT:Flow alarm muted
7246.13ft: Connection at 7248.4
7246.13ft: ZWOB from SideKick sk-04-09-1056
7246.13ft: SURVEY @ 7198' INC .4 AZI 136.3
7246.13ft: WT 9.6/ VIS 45/ PH 9.7/ H2O 8 GPM
7246.13ft: ZDiffPressure from SideKick sk-04-09-1056
7246.13ft: PVT:Flow alarm reactivated: un-muted

7323.85ft: WT 9.6/ VIS 44/ PH 9.6/ H2O 8 GPM

7337.47ft: Connection at 7340.0
7337.47ft: PVT:Flow alarm muted
7337.47ft: SURVEY @ 7290 INC .8 AZI 168.2
7337.47ft: ZDiffPressure from SideKick sk-04-09-1056
7337.47ft: PVT:Flow alarm reactivated: un-muted

Sep 29, 2013

00:01 7420

7420.74ft: WT 9.6/ VIS 45/ PH 9.5/ H2O 8 GPM

00:16 7430

7427.99ft: PVT:Flow alarm muted
7427.99ft: SURVEY @ 7381' INC 1.0 AZI 193.1
7427.99ft: PVT:Flow alarm reactivated: un-muted
7428.94ft: Connection at 7431.4

00:22 7440

00:29 7450

00:34 7460

00:39 7470

00:45 7480

00:52 7490

00:57 7500

7502.99ft: WT 9.6/ VIS 45/ PH 10.0/ H2O 8 GPM

01:03 7510

01:21 7520

7519.32ft: PVT:Flow alarm muted
7519.32ft: ZWOB from SideKick sk-04-09-1056
7519.32ft: Connection at 7522.9
7519.32ft: SURVEY @ 7472 INC 1.4 AZI 202.4
7523.16ft: PVT:Flow alarm reactivated: un-muted
7523.16ft: PVT:Flow alarm muted
7523.16ft: PVT:Flow alarm reactivated: un-muted

01:39 7530

01:49 7540

7544.09ft: PVT:Flow alarm muted

01:58 7550

7549.34ft: WT 9.6+/ VIS 44/ PH 9.8/ H2O 8 GPM

02:11 7560

7557.84ft: PVT:Flow alarm reactivated: un-muted

02:16 7570

02:23 7580

02:29 7590

02:34 7600

02:38 7610

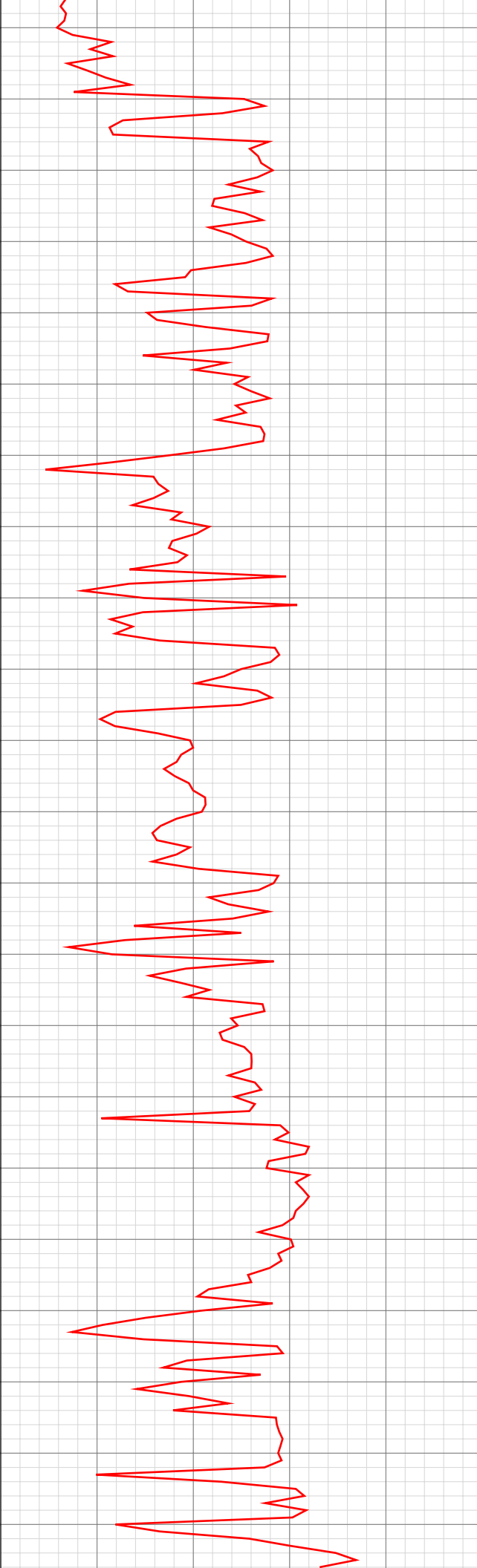
7610.04ft: PVT:Flow alarm muted
7610.04ft: Connection at 7614.5
7610.04ft: SURVEY @ 7564' INC 1 AZI 235.1
7610.04ft: ZDiffPressure from SideKick sk-04-09-1056
7610.04ft: PVT:Flow alarm reactivated: un-muted

02:59 7620

7619.82ft: WT 9.6+/ VIS 45/ PH 9.5/ H2O 8 GPM
7621.98ft: PVT:Flow alarm muted

03:18 7630

03:35 7640
03:49 7650
03:55 7660
04:00 7670
04:07 7680
04:13 7690
04:17 7700
04:39 7710
04:46 7720
04:53 7730
05:01 7740
05:06 7750
05:12 7760
05:20 7770
05:26 7780
05:31 7790
05:44 7800
05:47 7810
05:52 7820
06:01 7830
06:05 7840
06:11 7850



7639.53ft: PVT:Flow alarm reactivated: un-muted

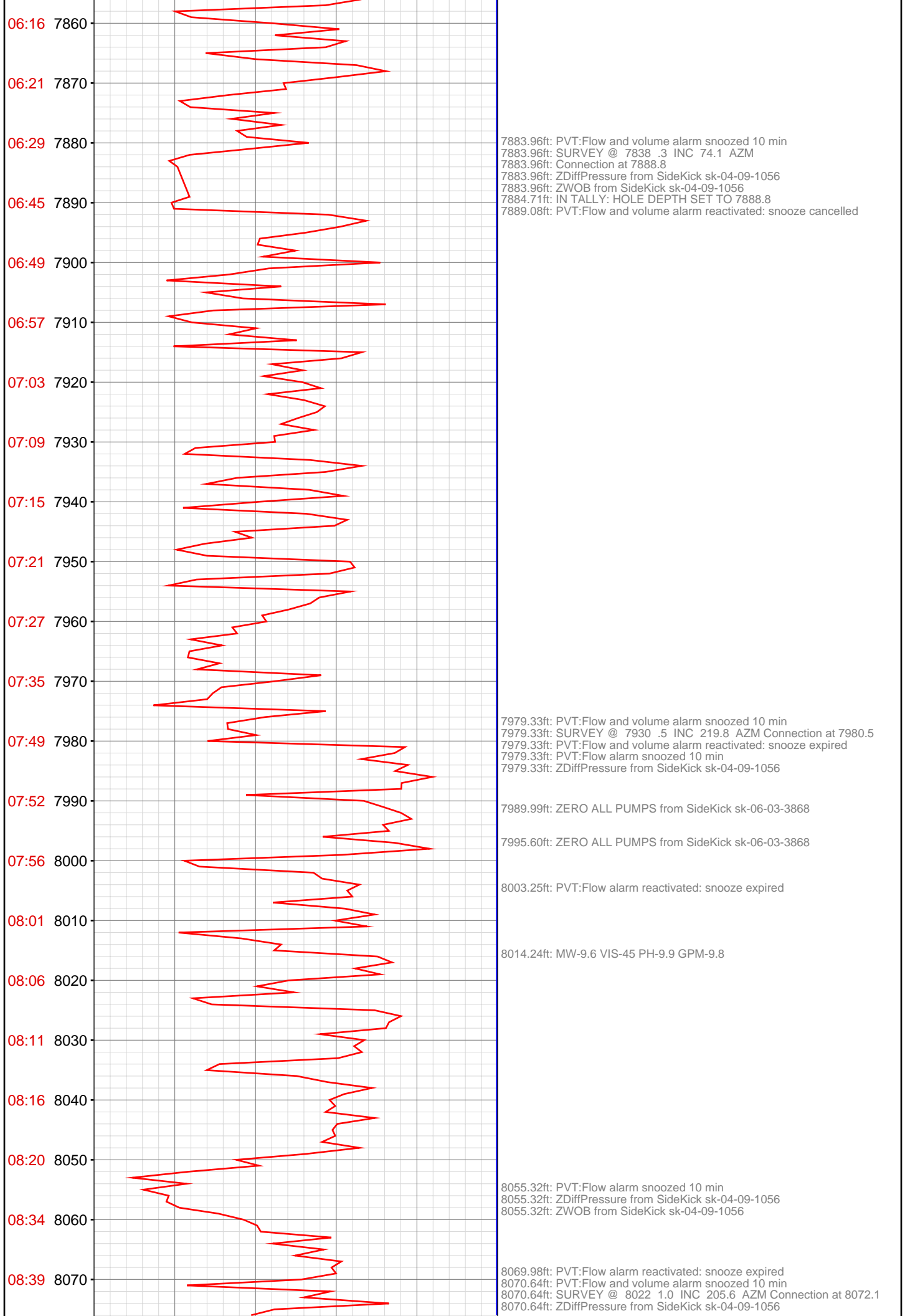
7674.31ft: WT 9.7/ VIS 46/ PH 9.6/ H2O 8 GPM

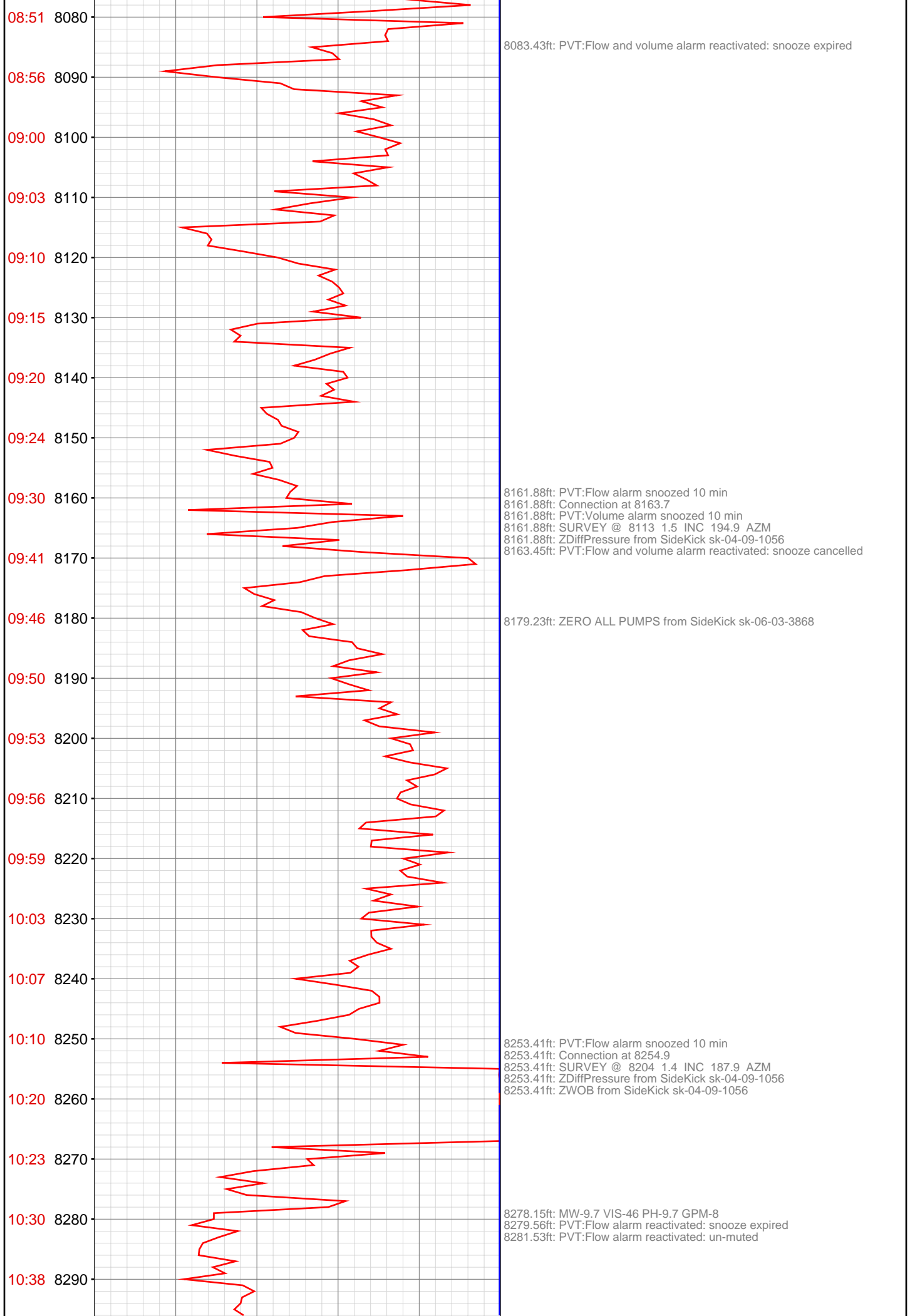
7701.18ft: PVT:Flow alarm muted
7701.18ft: ZWOB from SideKick sk-04-09-1056
7701.18ft: Connection at 7706.2
7701.18ft: SURVEY @ 7656' INC .5 AZI 346.8
7701.18ft: PVT:Flow alarm reactivated: un-muted

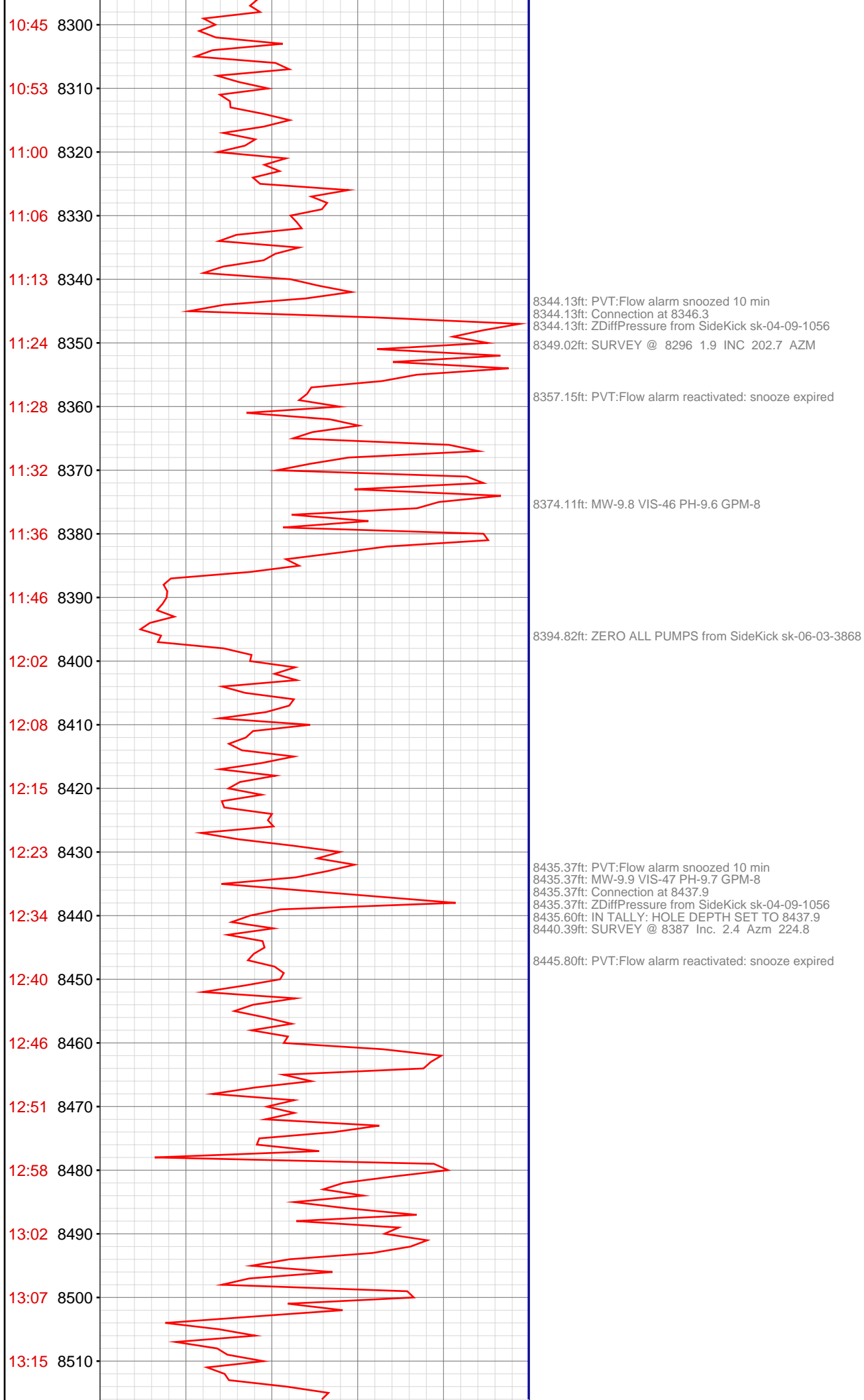
7743.93ft: WT 9.7/ VIS 45/ PH 10.0/ H2O 8 GPM

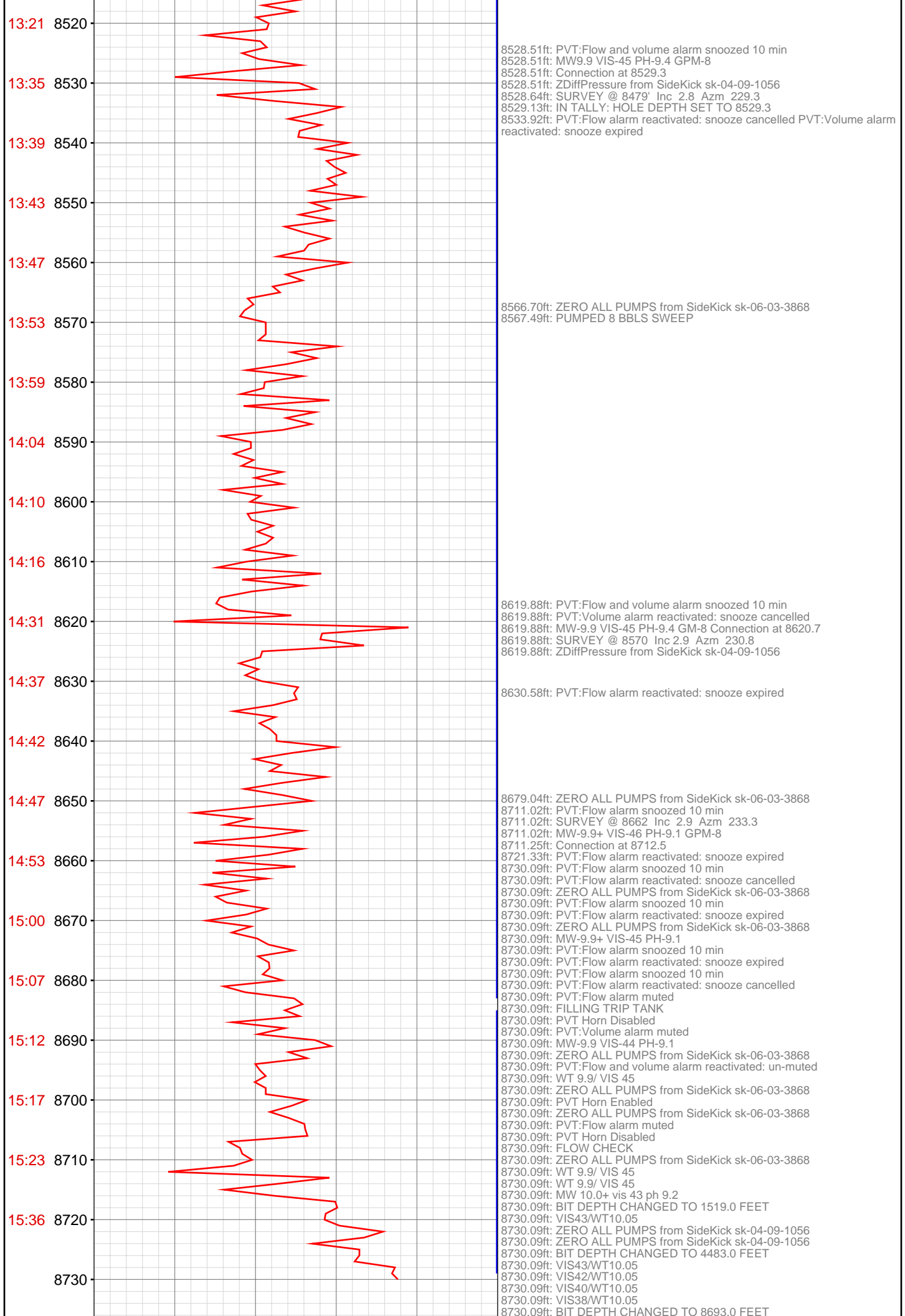
7792.88ft: Connection at 7797.5
7792.88ft: PVT:Flow alarm muted
7792.88ft: SURVEY @ 7747 .3 INC 21.8 AZM
7792.88ft: ZDiffPressure from SideKick sk-04-09-1056
7792.88ft: PVT:Flow alarm reactivated: un-muted

7851.54ft: MW-9.6+ VIS-45 PH-10.1 GPM-8









8730.09ft: PVT:Volume alarm snoozed 10 min
8730.09ft: PVT:Volume alarm reactivated: snooze expired
8730.09ft: TRANSFERRED 400.00
8730.09ft: PVT:Volume alarm muted
8730.09ft: WT 10.0/ VIS 47
8730.09ft: ATTEMPTED TO ZERO TOTAL STROKES
8730.09ft: ATTEMPTED TO SET HOLE DEPTH TO 0.00 feet