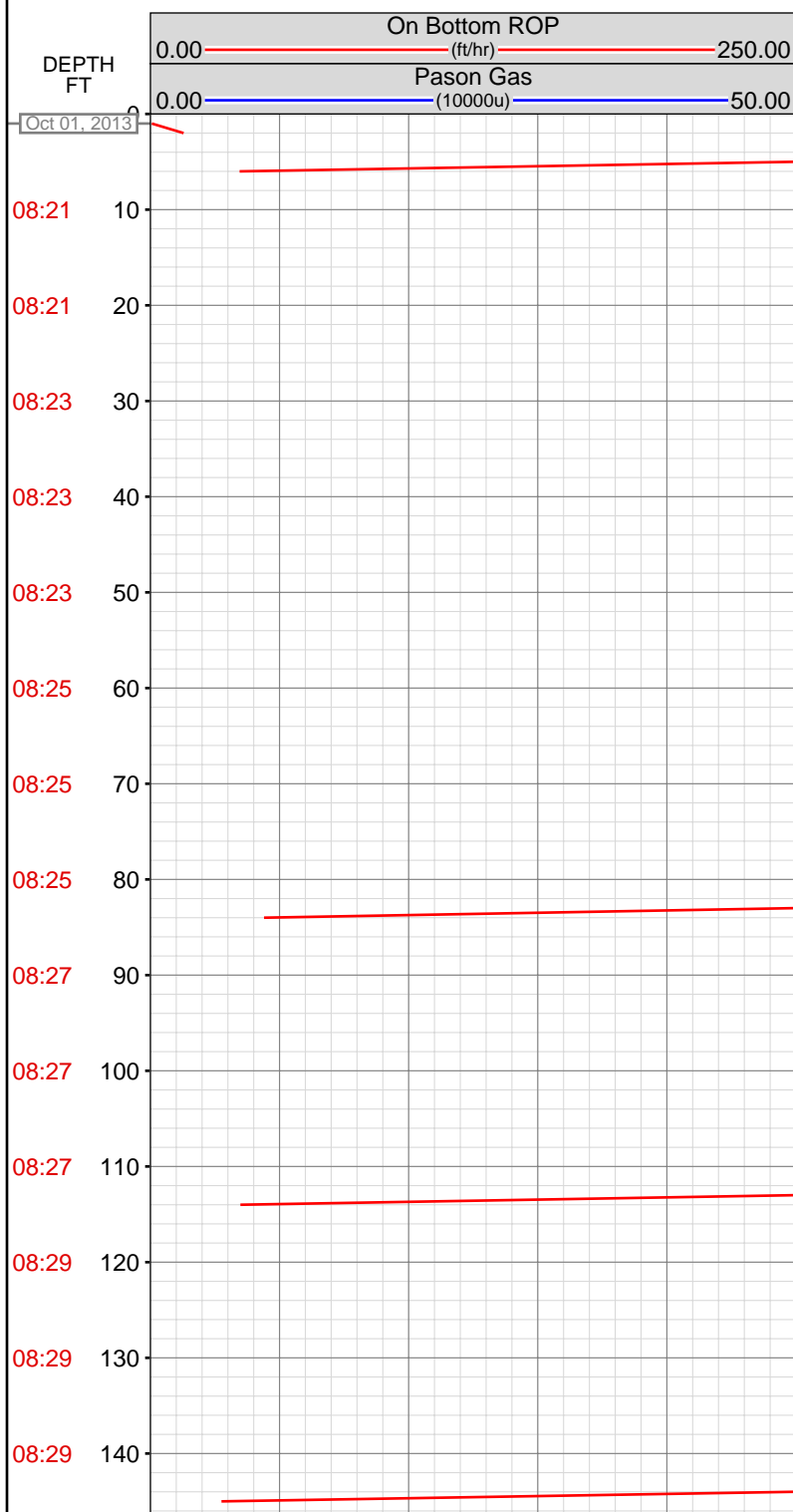


DataHub EDR Log

Mon Oct 07, 2013 08:27:30
Well Dossier 1380595727
Greg Veregin

OPERATOR: EnCana Oil & Gas (USA), Inc.
WELL: Hagen Federal 15-16C
FIELD:
LOCATION:
COUNTRY: USA
RIG: Pat-UTI 303

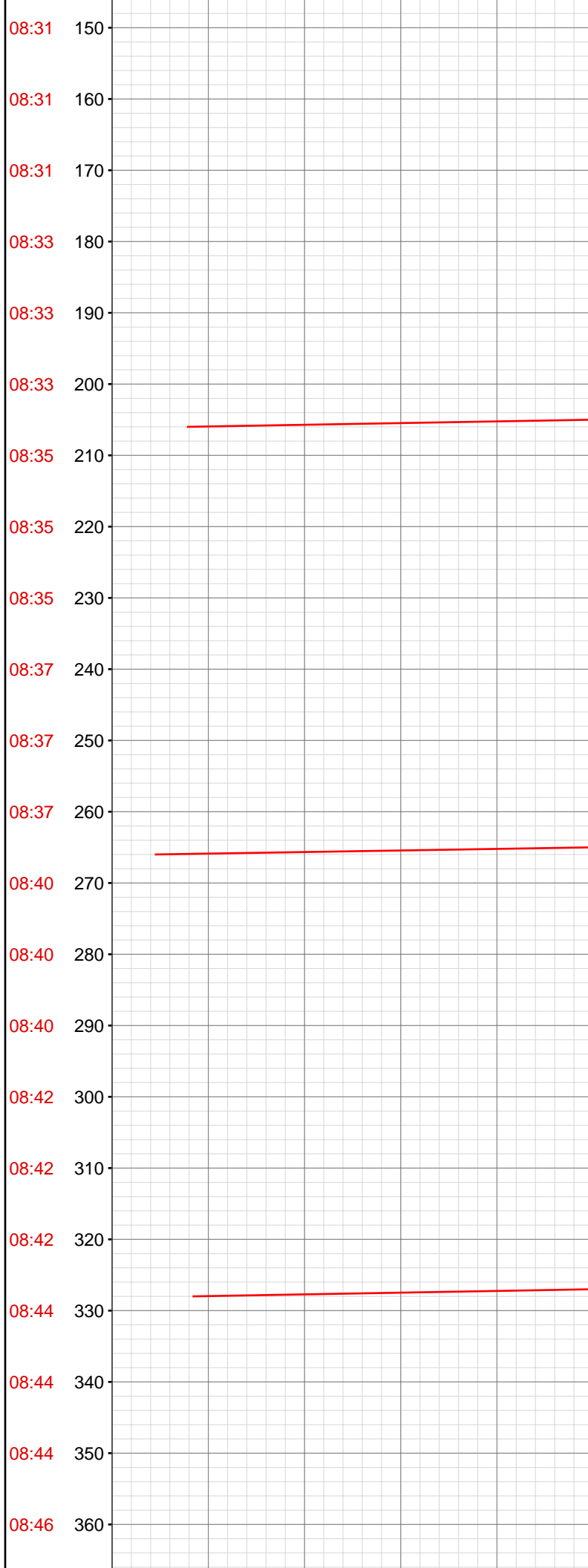
CONTRACTOR: Patterson-UTI Drilling Company
UNIQUE WELL ID: 05-045-22005
SPUD DATE: Oct 01, 2013 17:30
RELEASE DATE: Oct 06, 2013 19:00

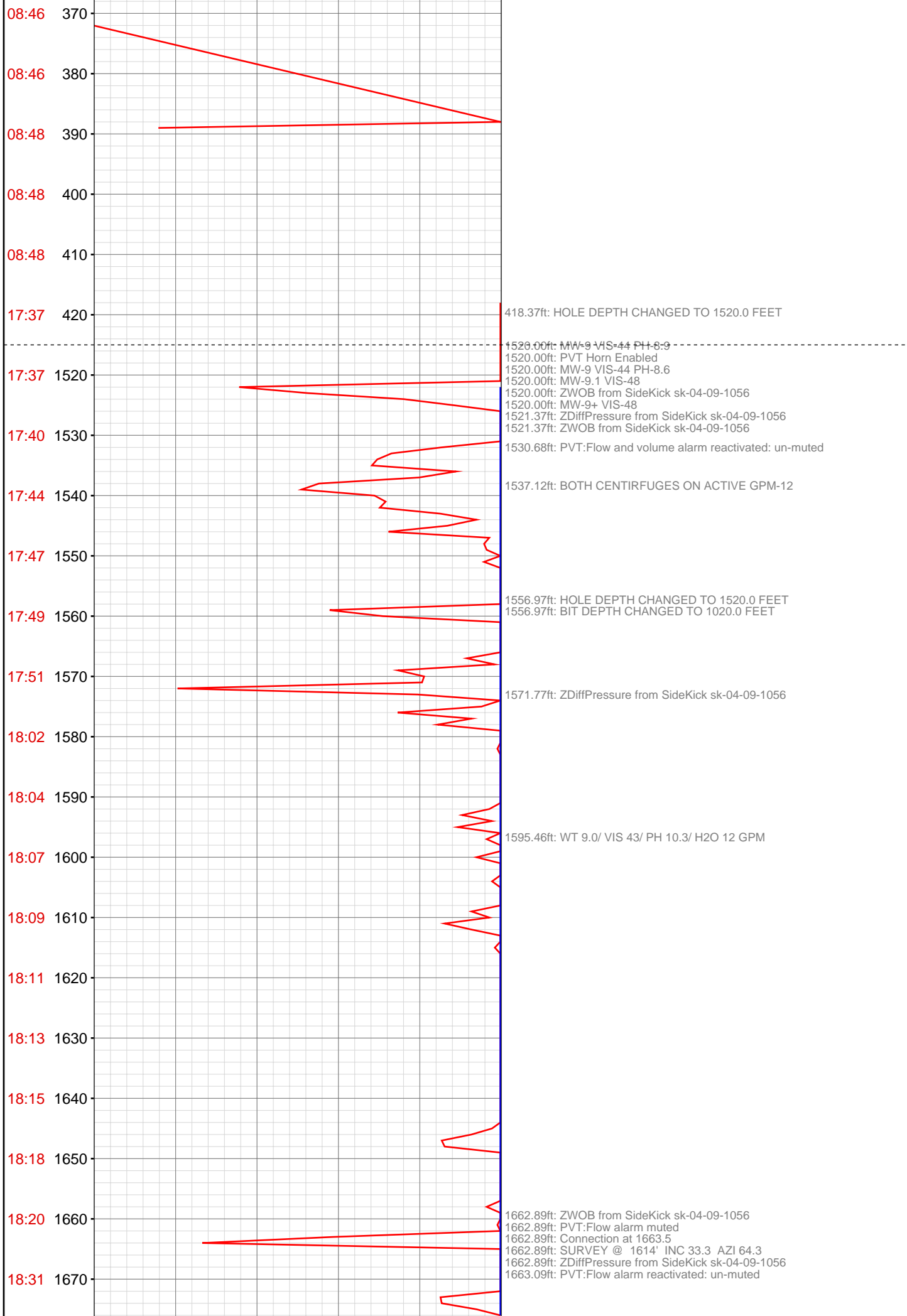


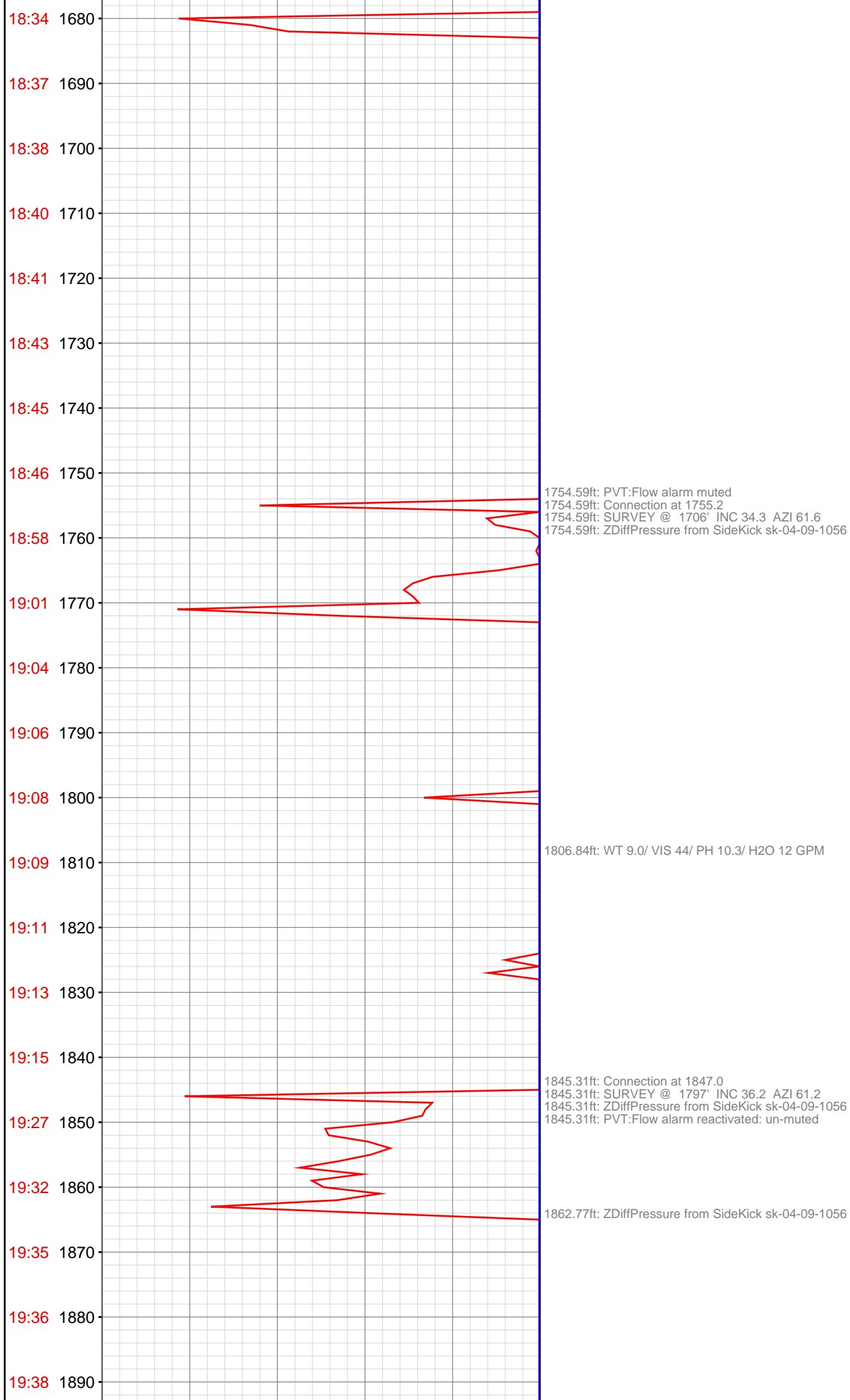
MEMOS

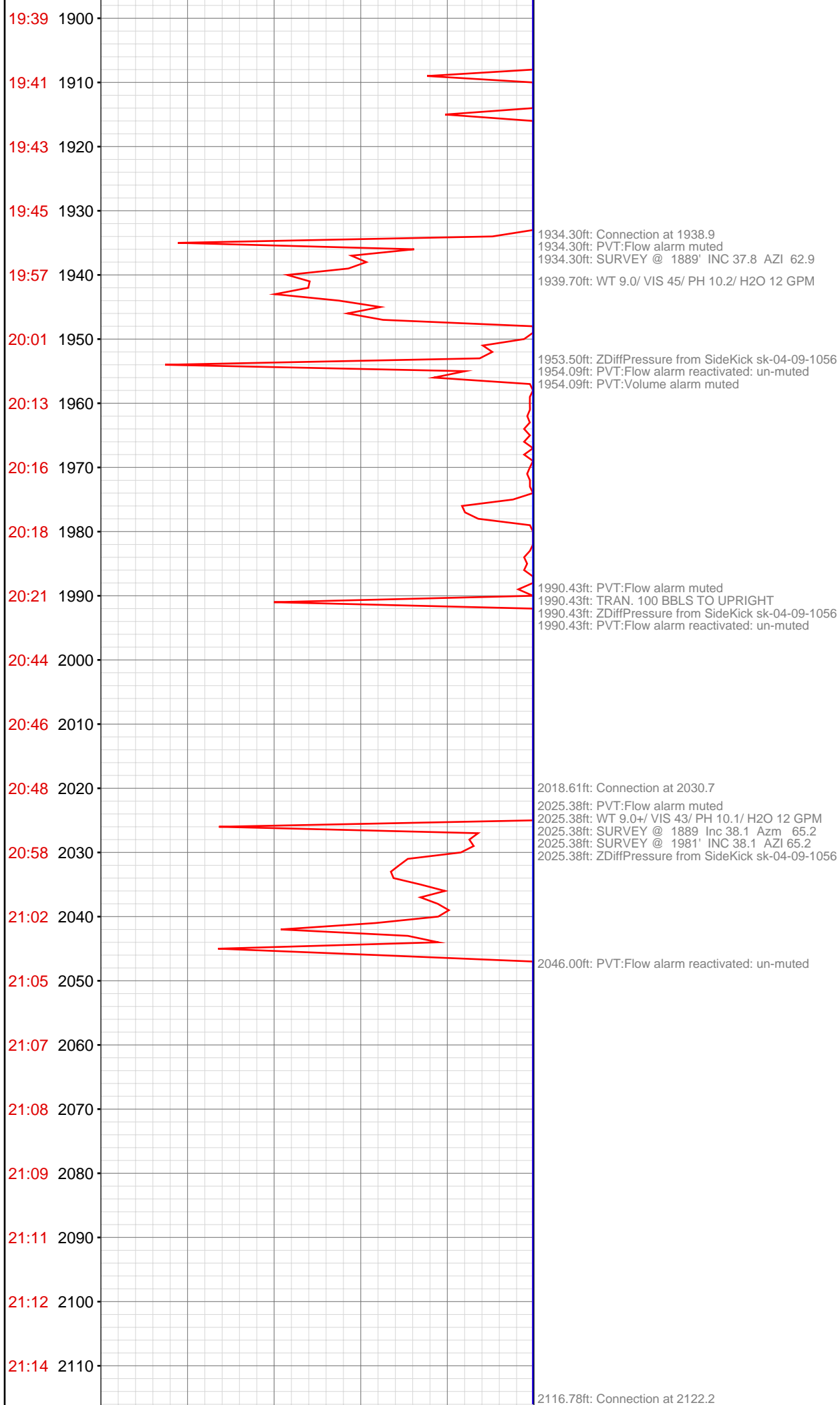
0.00ft: WT 8.8/ VIS 33
0.00ft: WT 9.0/ VIS 41
0.00ft: WT 9.0/ VIS 48
0.00ft: PVT Horn Enabled

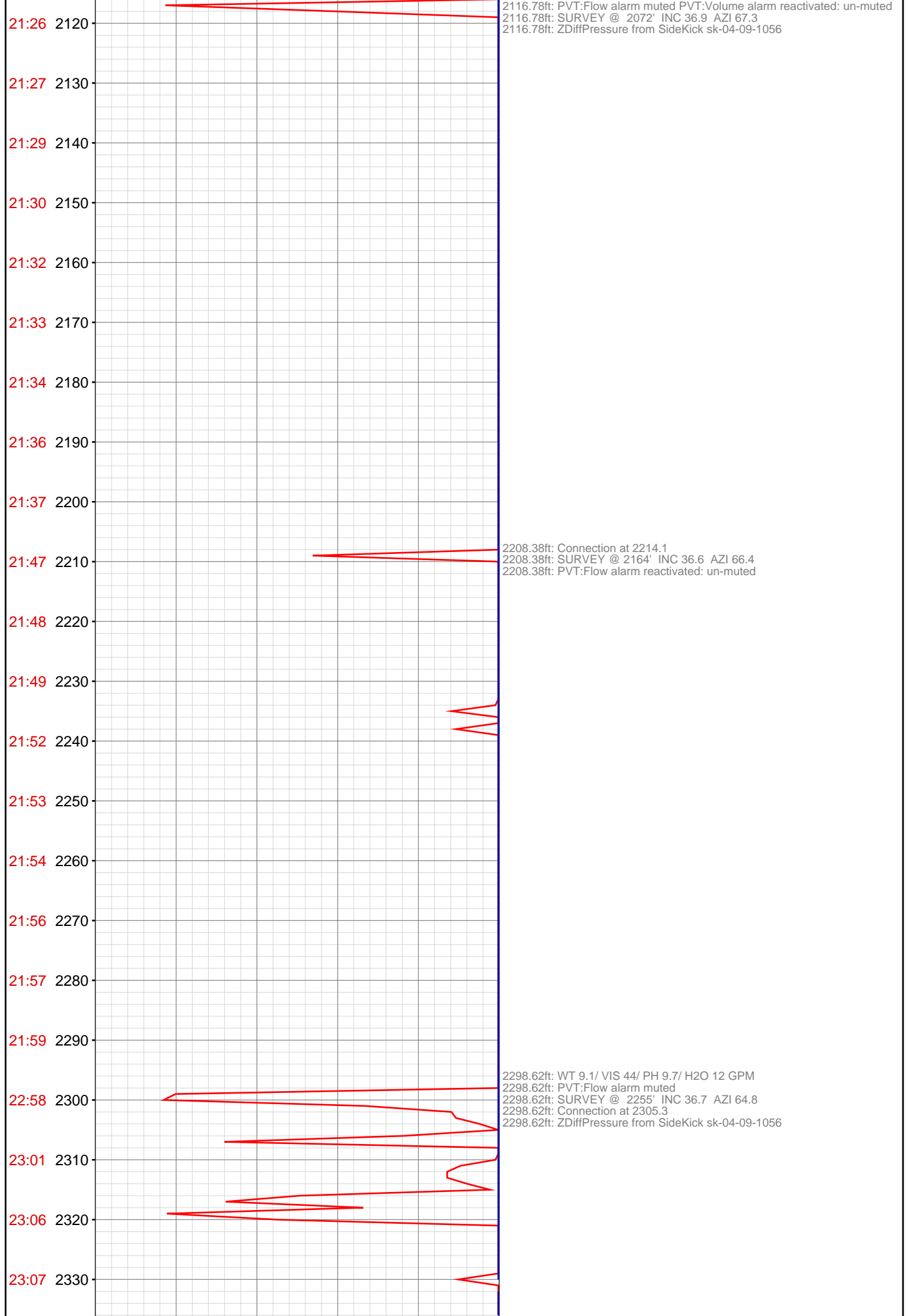
113.76ft: PVT Horn Disabled

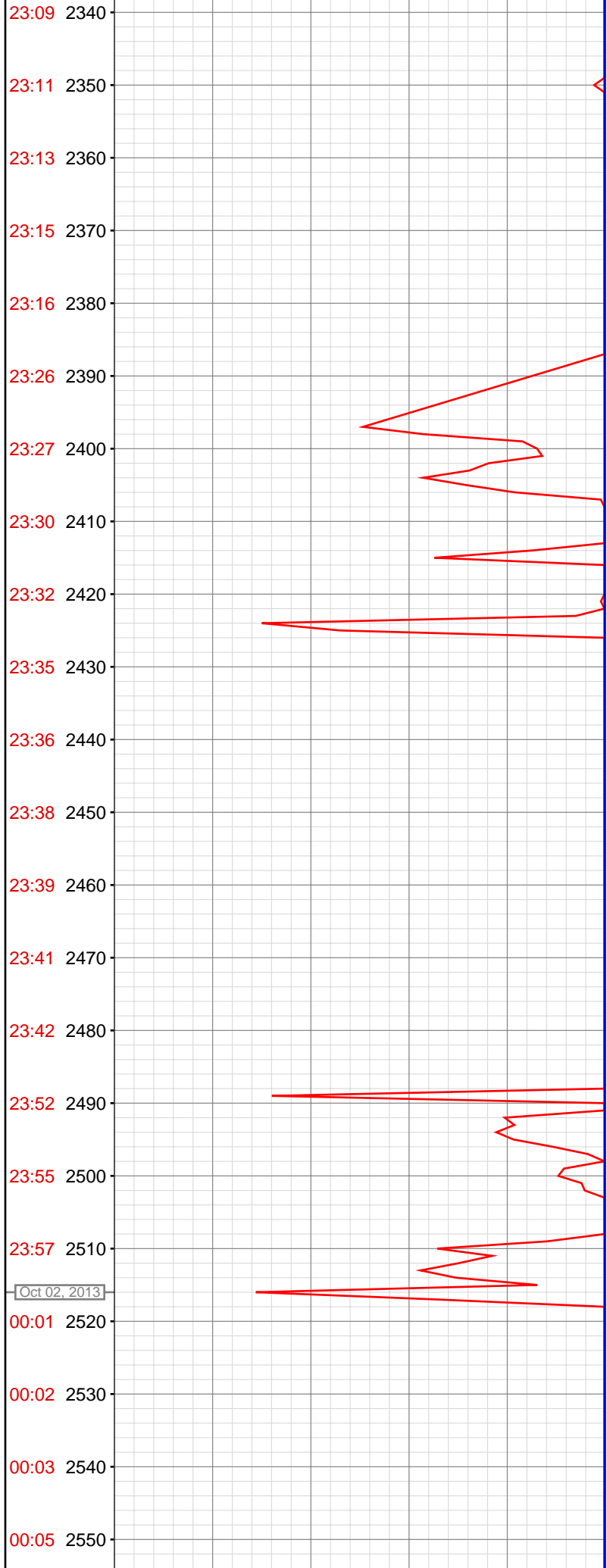












2385.64ft: Connection at 2396.9
2387.08ft: WT 9.1/ VIS 45/ PH 9.4/ H2O 12 GPM
2387.08ft: SURVEY @ 2346' INC 36.8 AZI 65.9
2387.08ft: ZDiffPressure from SideKick sk-04-09-1056
2387.08ft: IN TALLY: HOLE DEPTH SET TO 2396.9

2425.00ft: PVT:Flow alarm reactivated: un-muted

2488.68ft: Connection at 2488.0
2488.68ft: PVT:Flow alarm muted
2488.68ft: ZDiffPressure from SideKick sk-04-09-1056

2519.68ft: WT 9.1/ VIS 45/ PH 9.4/ H2O 12 GPM

2541.13ft: PVT:Flow alarm reactivated: un-muted

00:06 2560

00:07 2570

00:17 2580

2579.94ft: Connection at 2580.0
2579.94ft: PVT:Flow alarm muted
2579.94ft: ZWOB from SideKick sk-04-09-1056
2579.94ft: SURVEY @ 2529' INC 34.3 AZI 72
2579.94ft: ZDiffPressure from SideKick sk-04-09-1056

00:19 2590

00:21 2600

2600.53ft: PVT:Flow alarm reactivated: un-muted

00:22 2610

00:24 2620

00:25 2630

00:27 2640

00:29 2650

00:30 2660

00:31 2670

2670.48ft: Connection at 2671.0
2670.94ft: PVT:Flow alarm muted
2670.94ft: SURVEY 2620' INC 34.4 AZI 71.6
2670.94ft: ZDiffPressure from SideKick sk-04-09-1056
2670.94ft: PVT:Flow alarm reactivated: un-muted

00:44 2680

00:47 2690

00:50 2700

00:52 2710

00:53 2720

00:54 2730

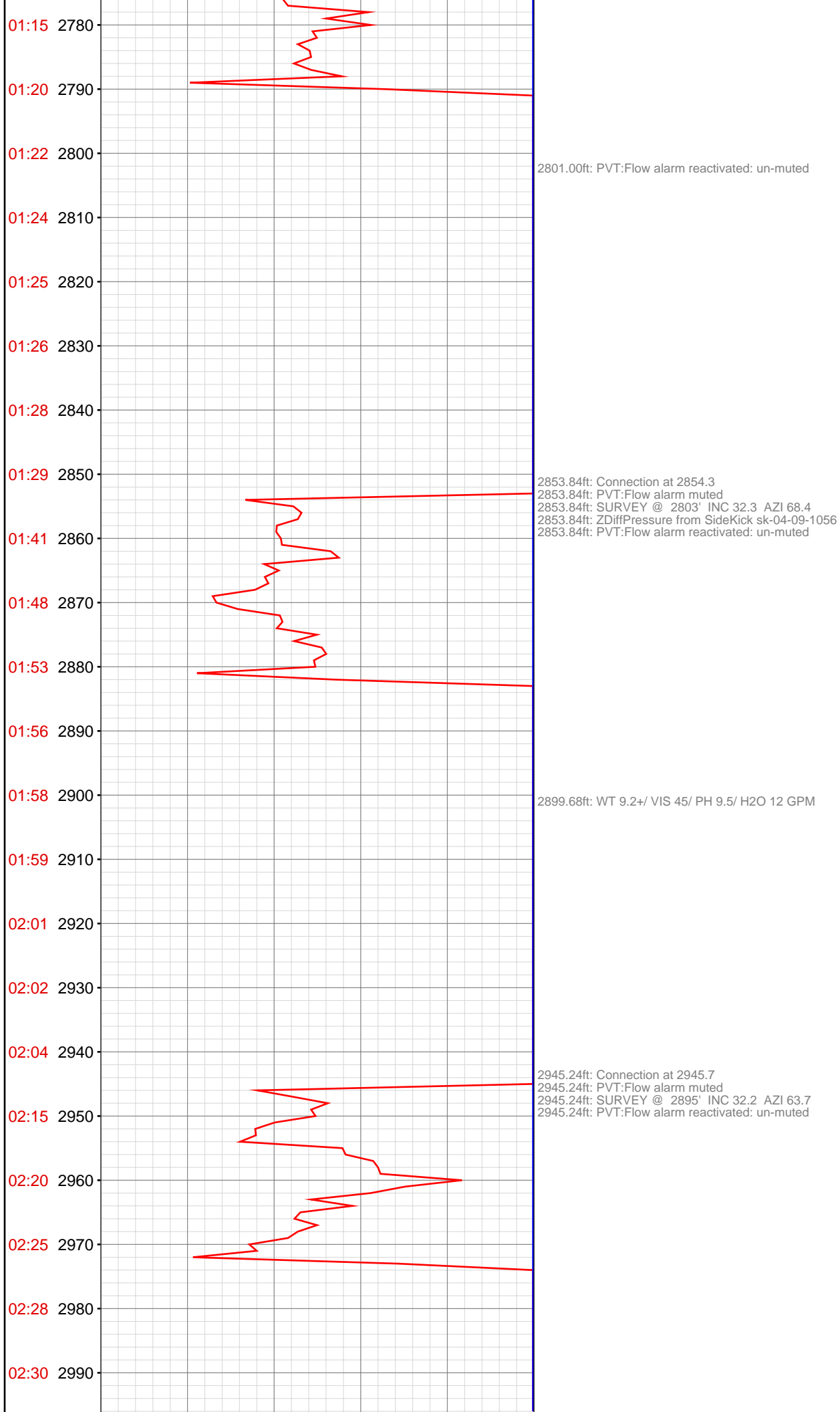
00:56 2740

00:58 2750

00:59 2760

2762.10ft: Connection at 2762.7
2762.14ft: PVT:Flow alarm muted
2766.22ft: WT 9.2+/- VIS 45/ PH 9.3/ H2O 12 GPM

01:10 2770



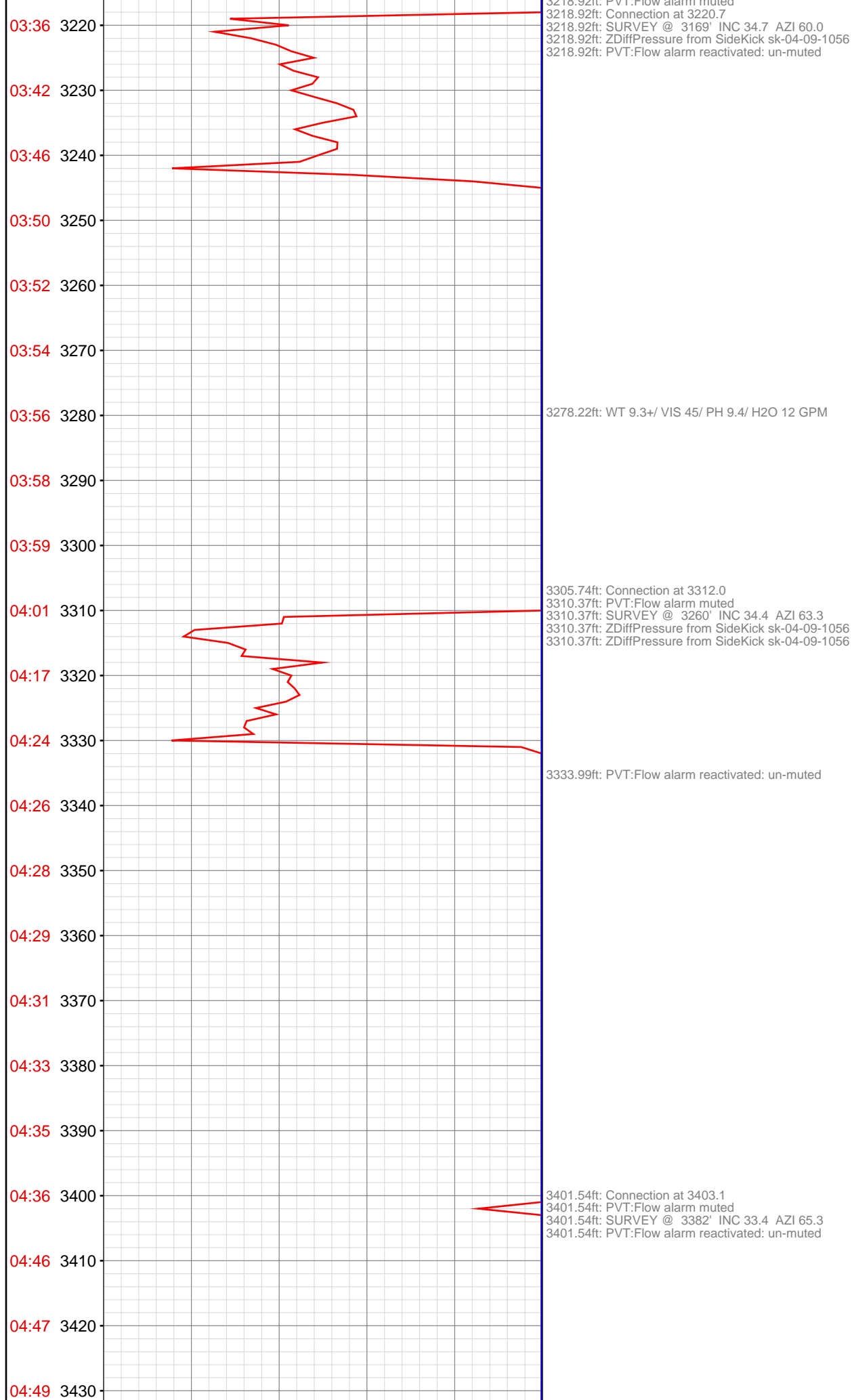
02:31 3000
02:33 3010
02:35 3020
02:36 3030
02:46 3040
02:48 3050
02:50 3060
02:51 3070
02:53 3080
02:55 3090
02:56 3100
02:58 3110
02:59 3120
03:09 3130
03:11 3140
03:13 3150
03:14 3160
03:16 3170
03:18 3180
03:19 3190
03:21 3200
03:23 3210

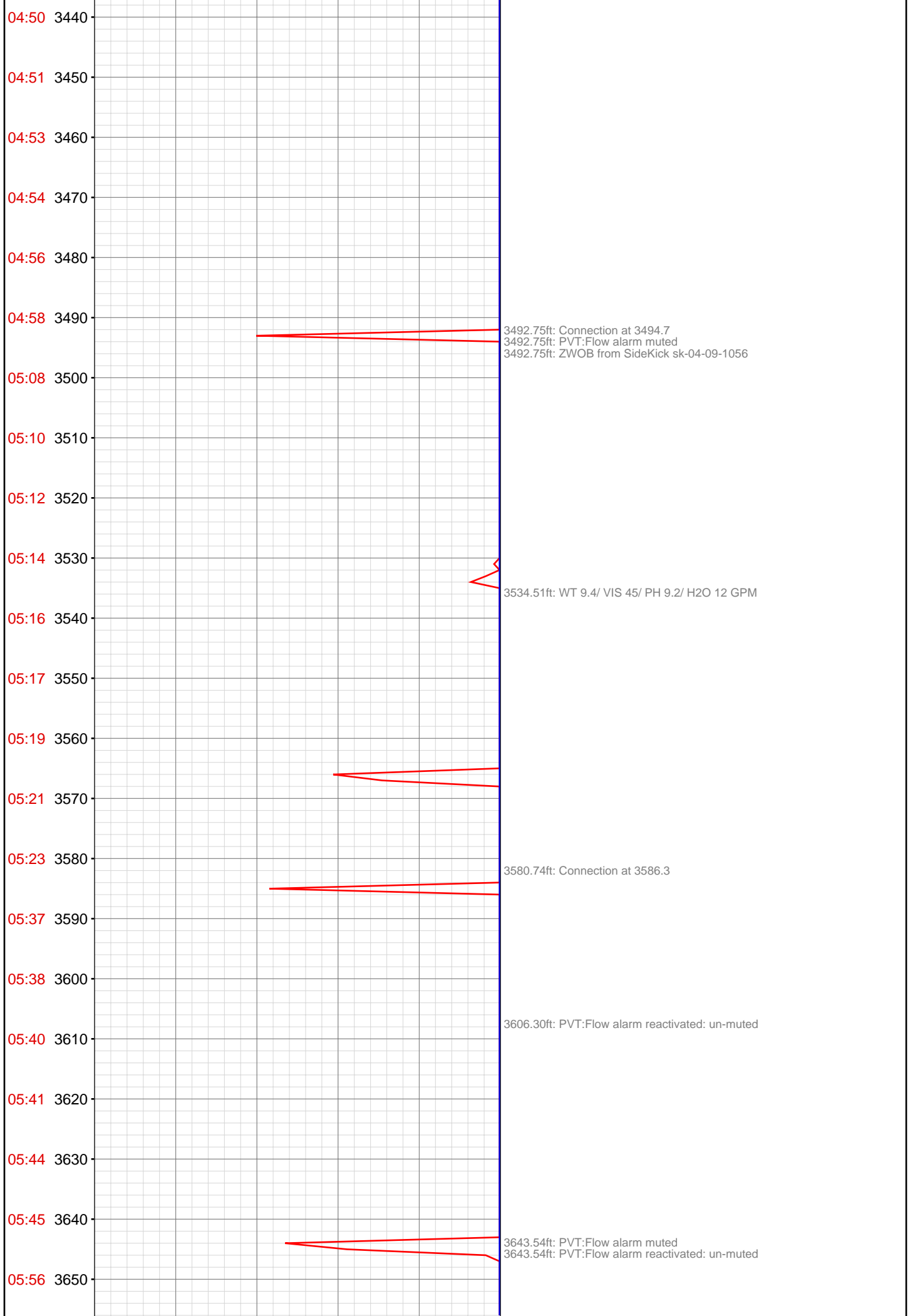
3036.60ft: Connection at 3037.2
3036.60ft: PVT:Flow alarm muted
3036.60ft: SURVEY @ 2986' INC 34.9 AZI 61.8
3036.60ft: ZDiffPressure from SideKick sk-04-09-1056
3036.60ft: PVT:Flow alarm reactivated: un-muted

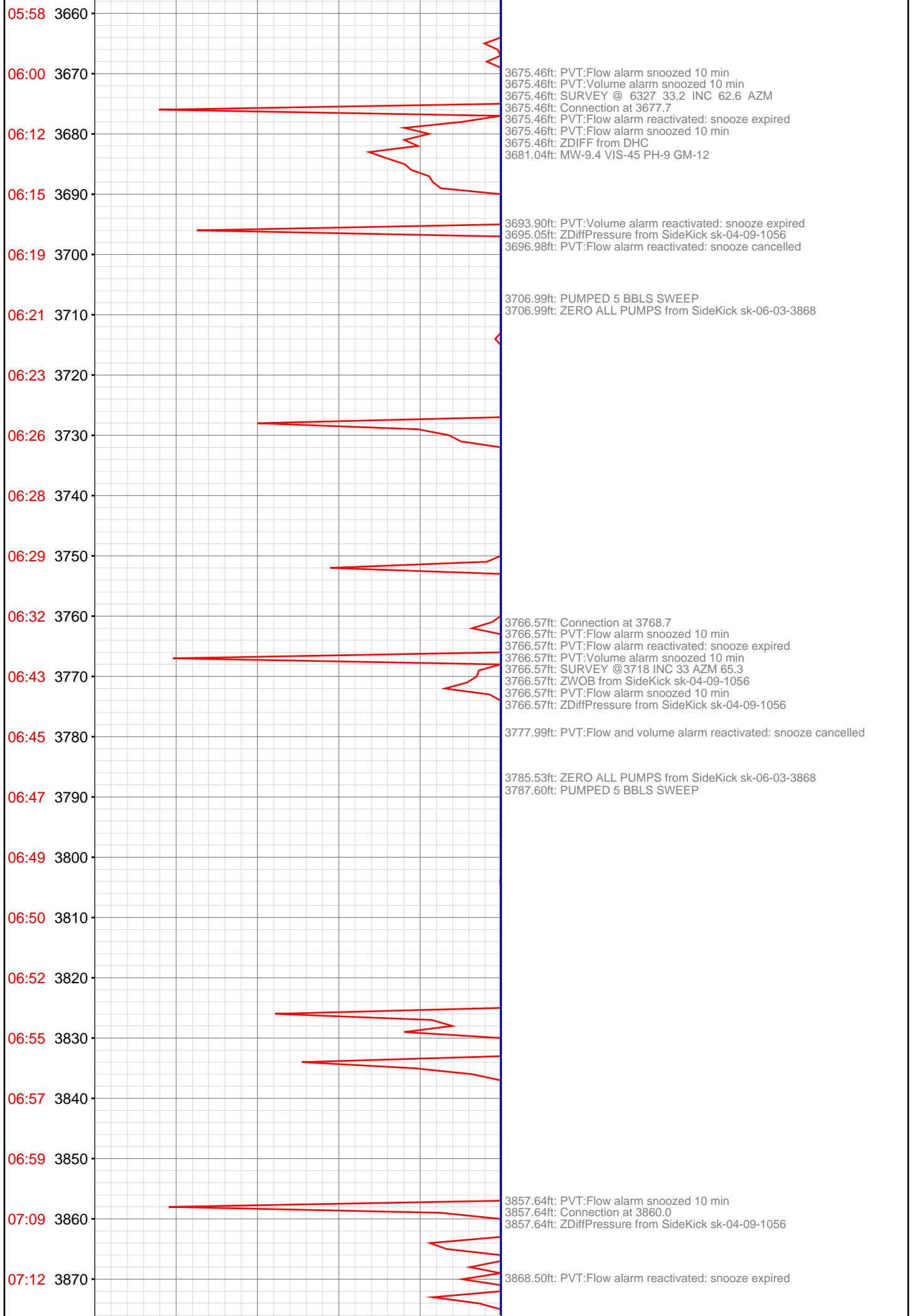
3116.03ft: WT 9.3/ VIS 45/ PH 9.4/ H2O 12 GPM

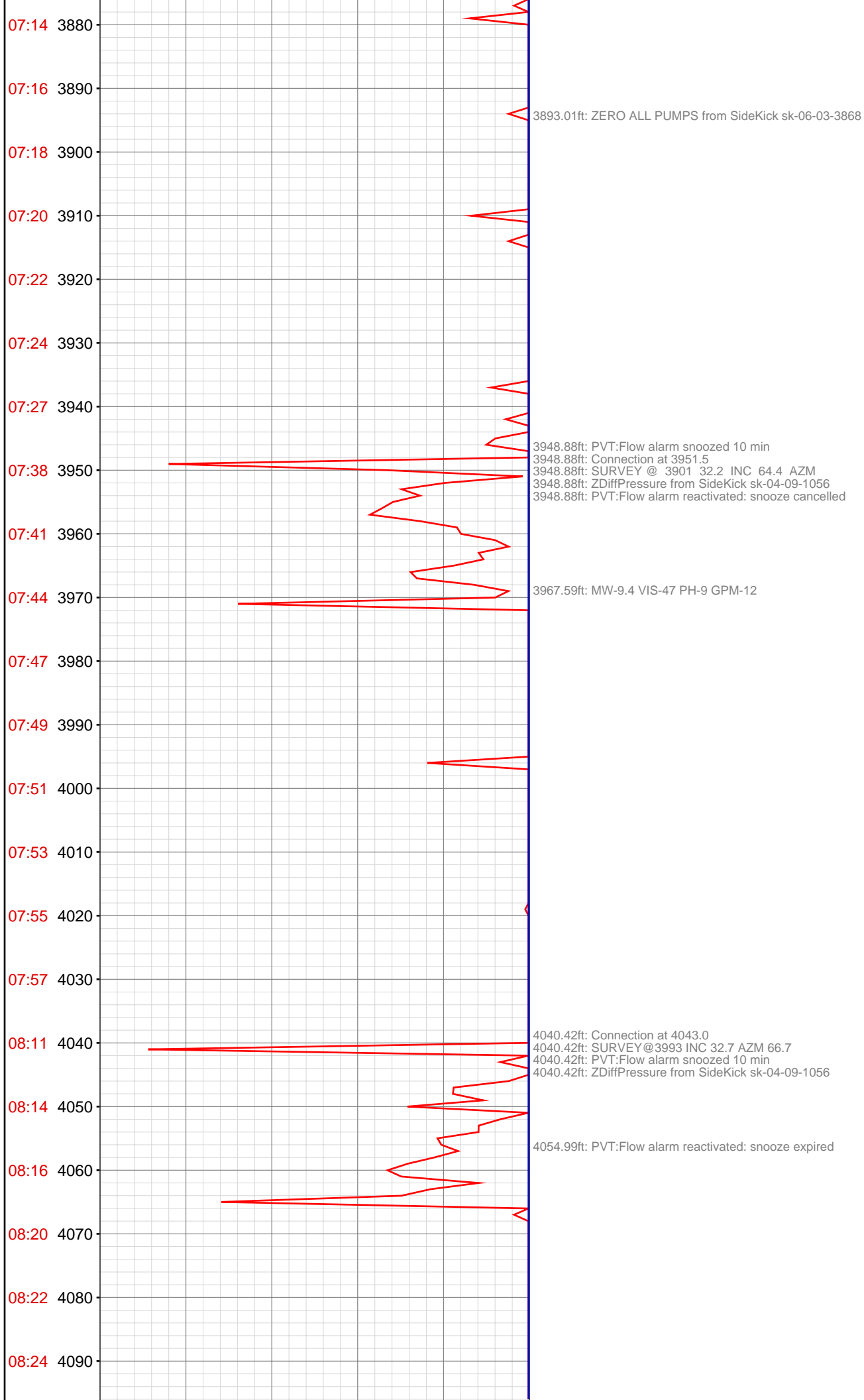
3121.81ft: Connection at 3129.0
3127.86ft: PVT:Flow alarm muted
3127.86ft: ZWOB from SideKick sk-04-09-1056
3127.86ft: ZDiffPressure from SideKick sk-04-09-1056
3127.86ft: PVT:Flow alarm reactivated: un-muted
3127.86ft: SURVEY @ 3078' INC 34.8 AZI 61.0

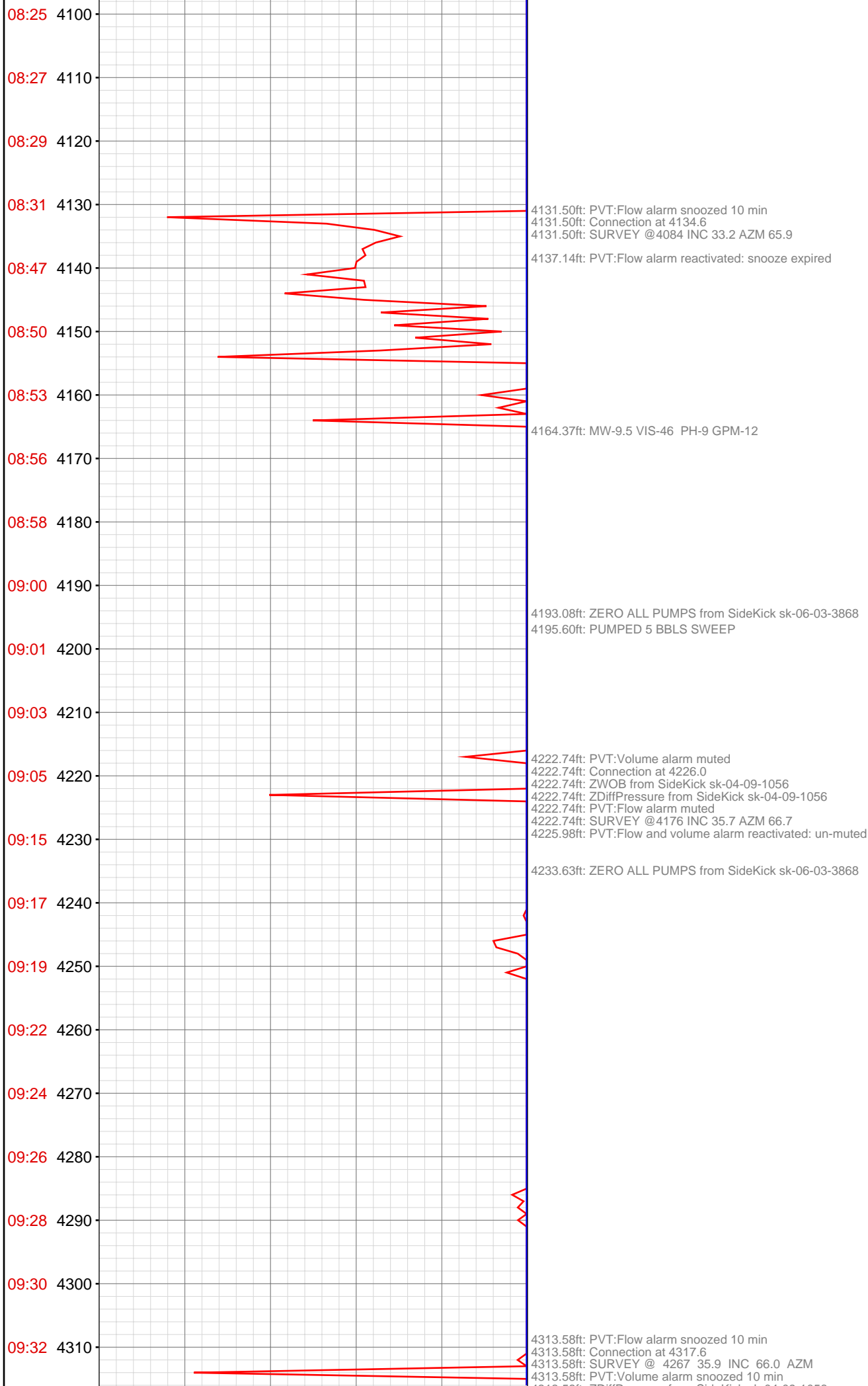
3218.82ft: PVT:Flow alarm muted

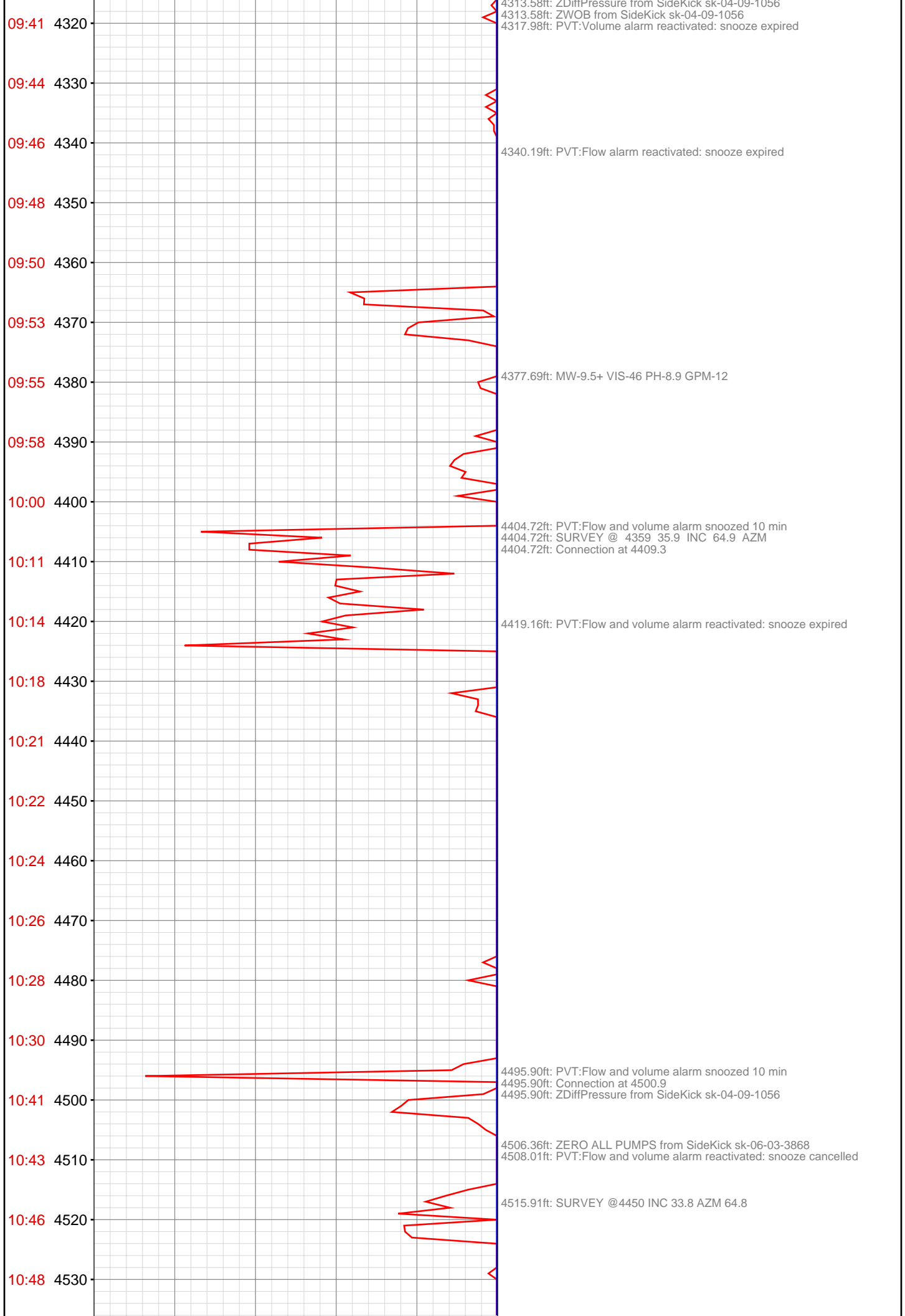


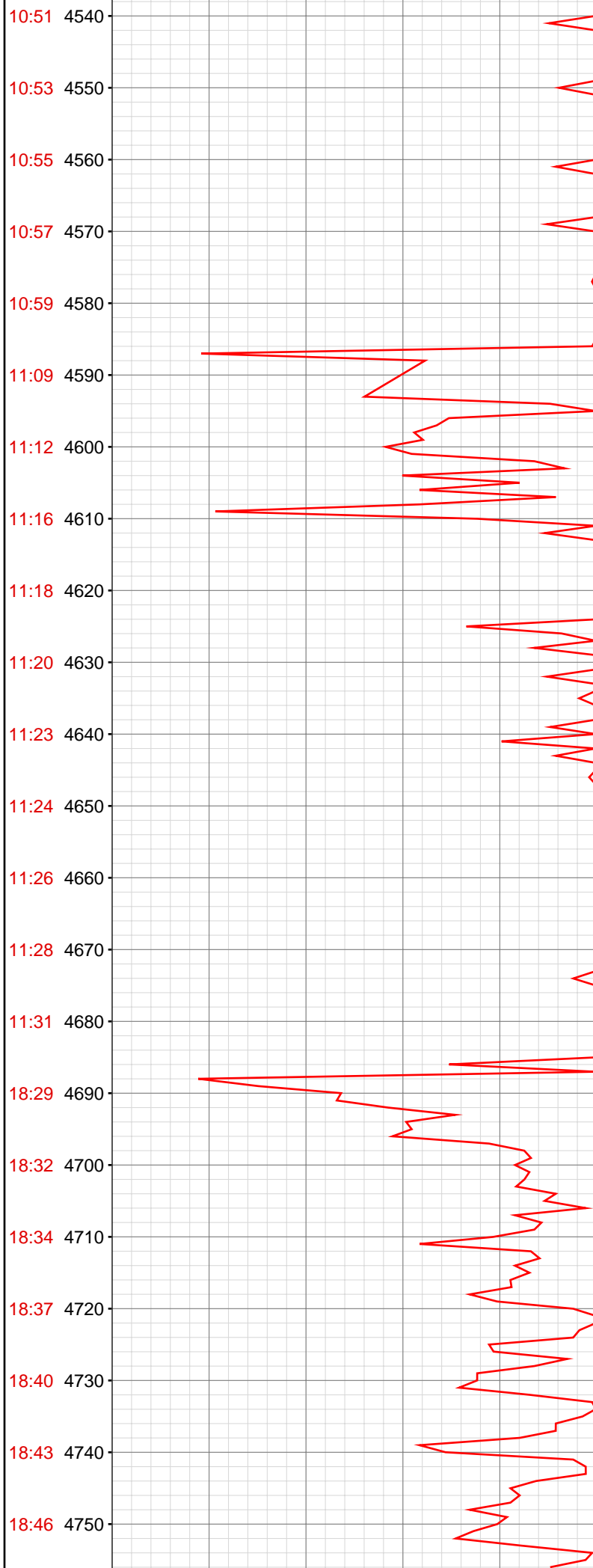












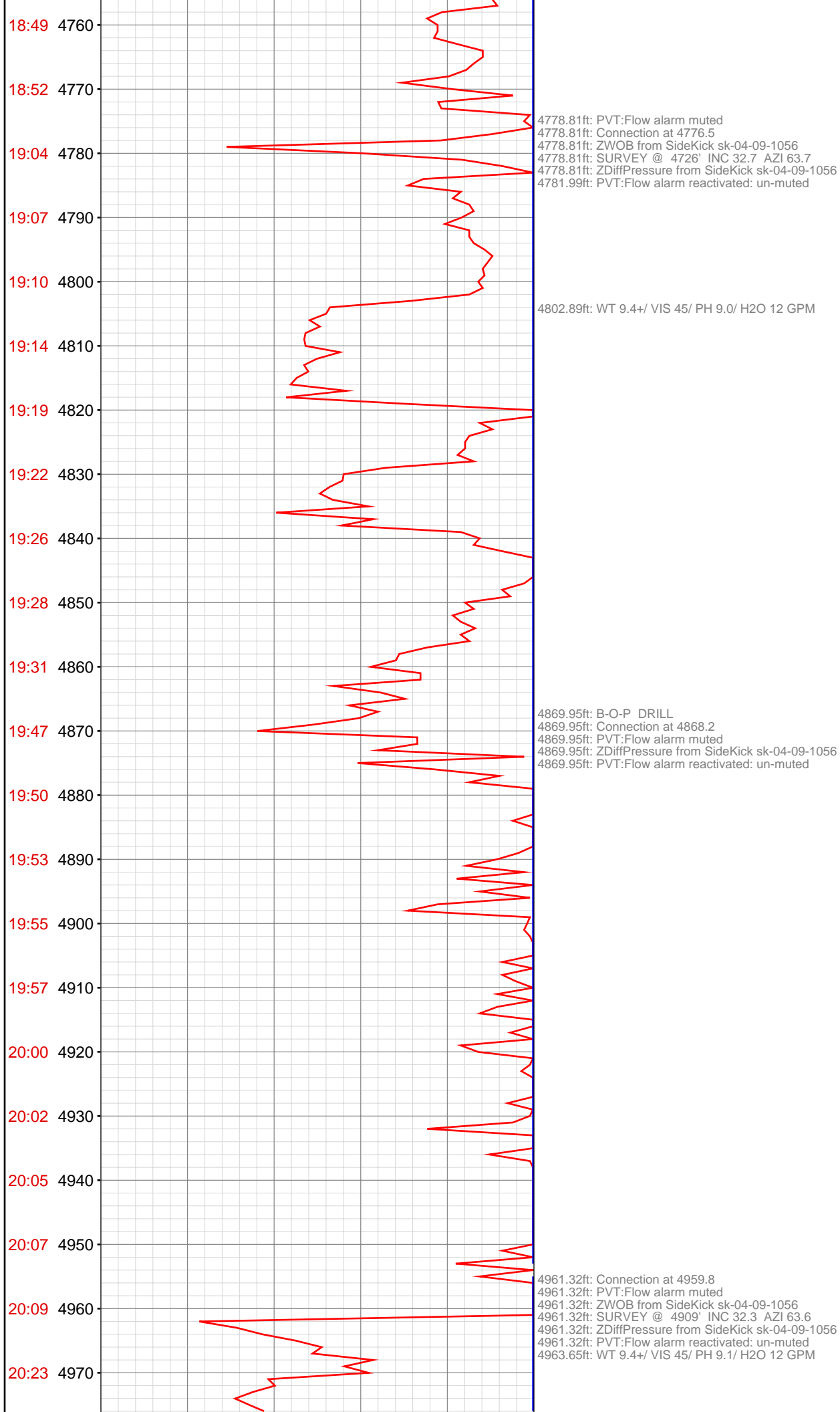
4586.94ft: PVT:Flow and volume alarm snoozed 10 min
4586.94ft: PVT:Flow alarm reactivated: snooze expired
4586.94ft: Connection at 4592.5
4586.94ft: SURVEY @4542 INC 34.3 AZM 63.8
4586.94ft: PVT:Flow alarm snoozed 10 min
4586.94ft: ZDiffPressure from SideKick sk-04-09-1056
4588.42ft: IN TALLY: HOLE DEPTH SET TO 4592.5

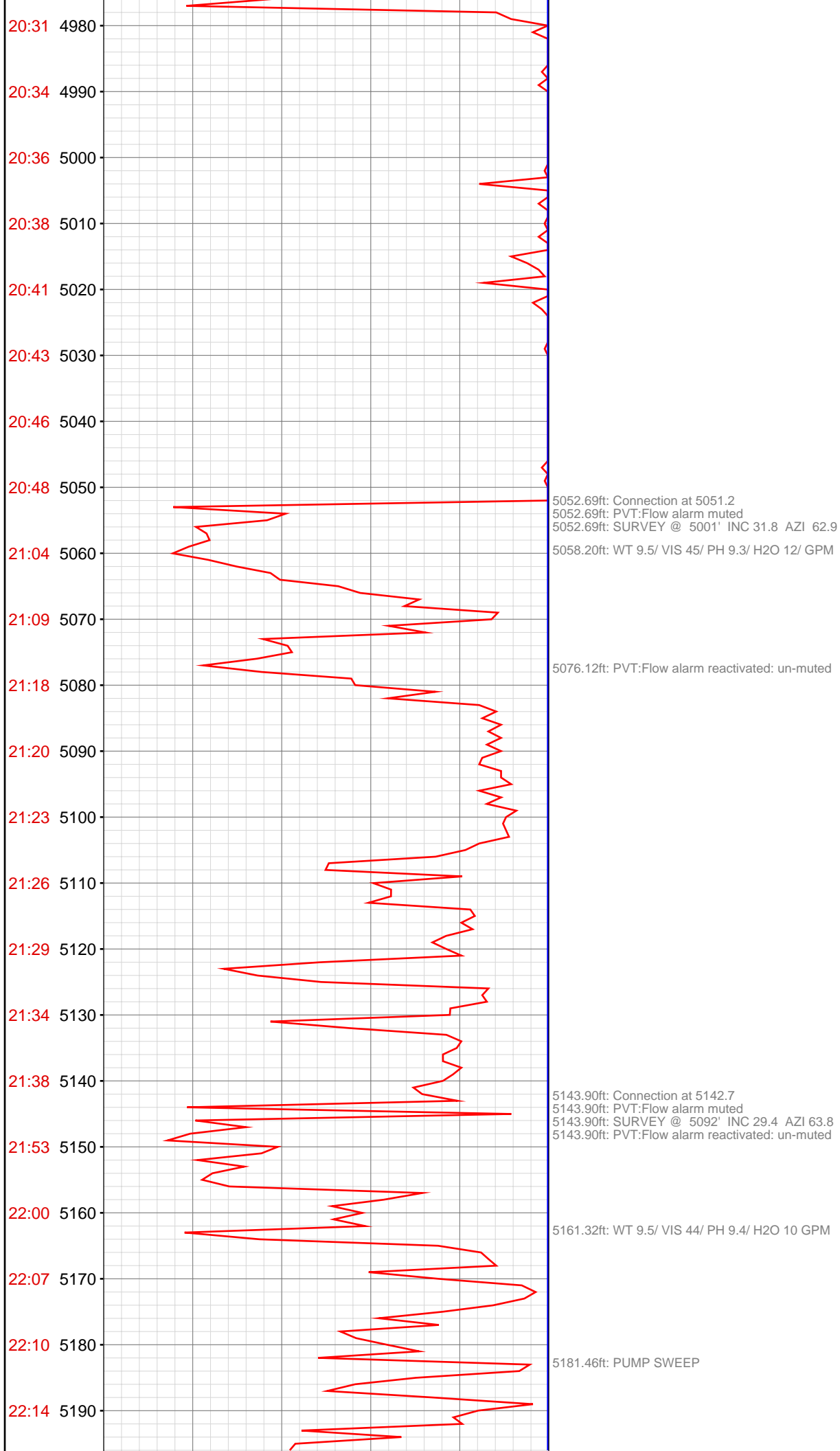
4608.79ft: PVT:Volume alarm reactivated: snooze expired
4609.58ft: MW-9.5+ VIS-46 PH-8.9 GPM-12

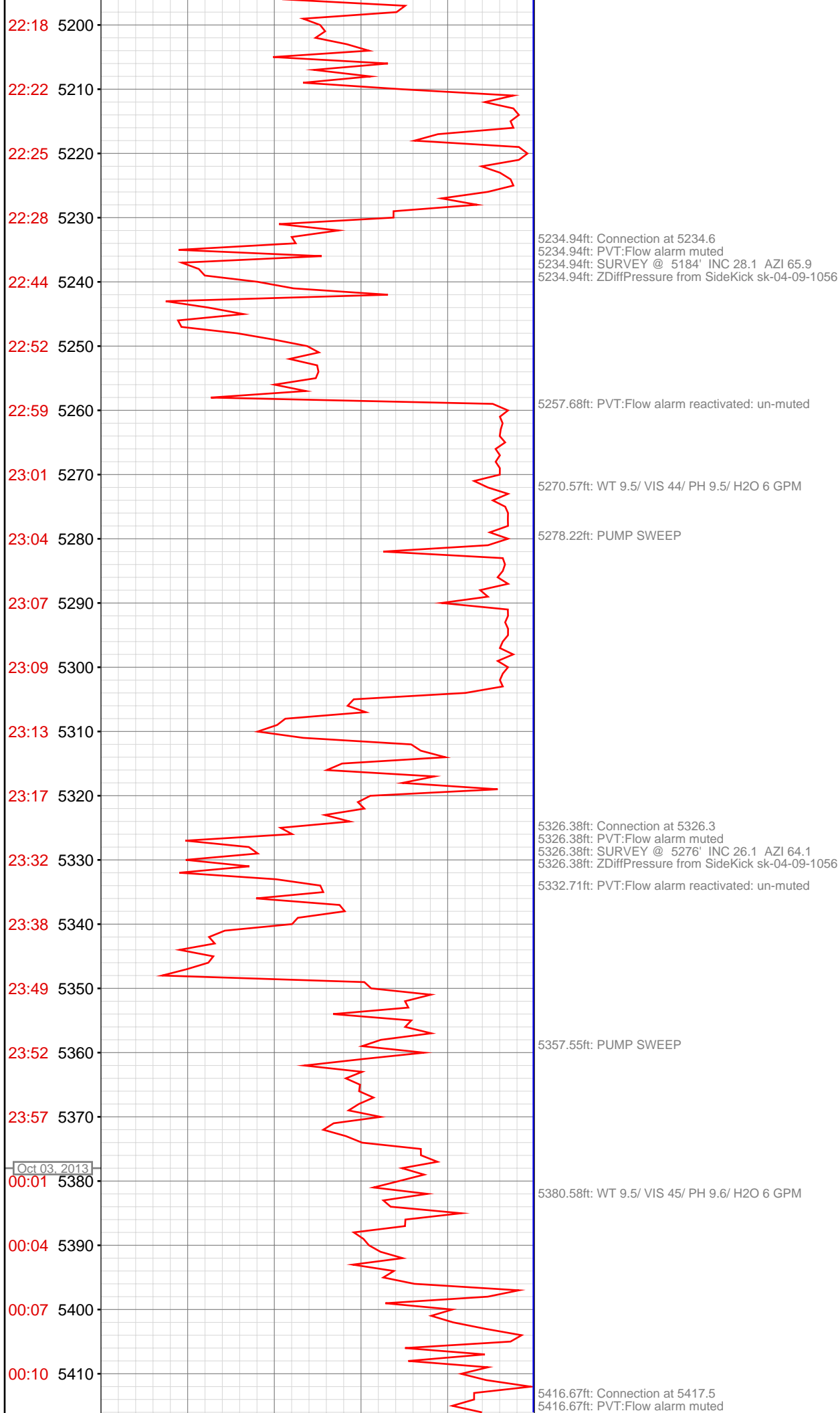
4619.19ft: PVT:Flow alarm reactivated: snooze expired

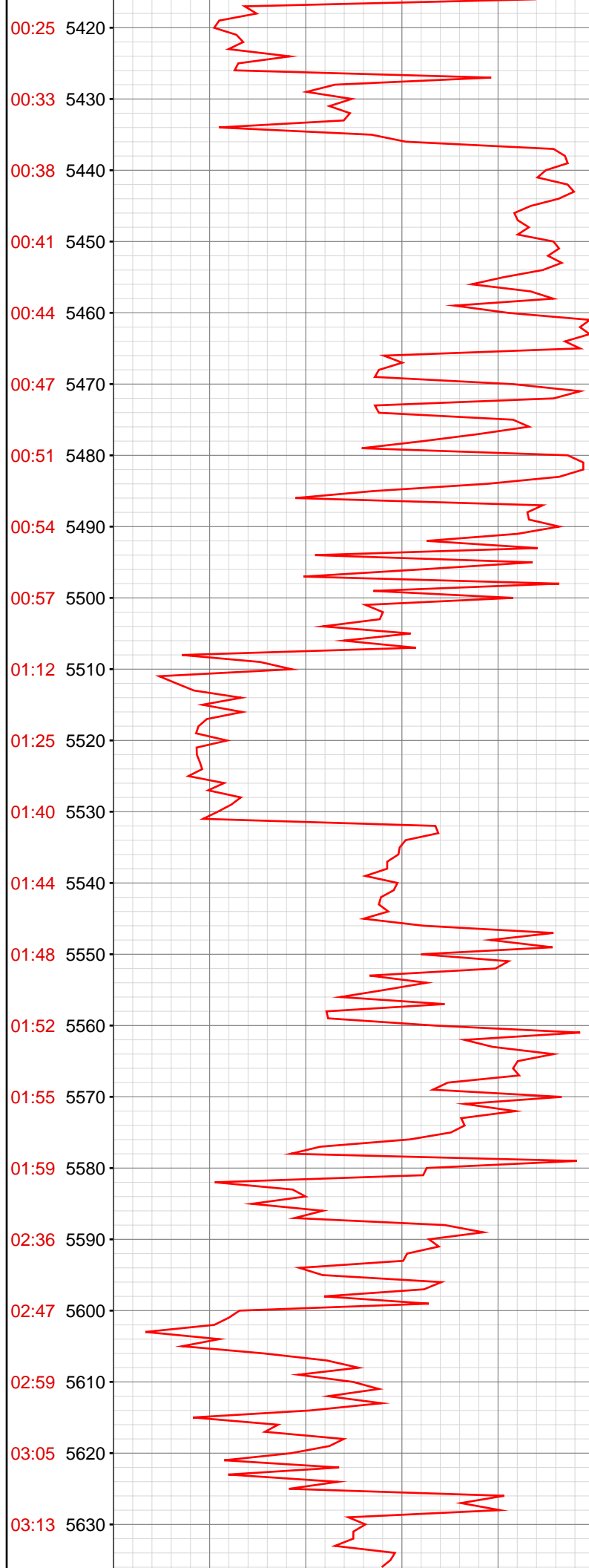
4681.33ft: PVT:Flow and volume alarm muted
4681.33ft: SURVEY @4634 INC 32.7 AZM 63.7
4681.33ft: ZERO ALL PUMPS from SideKick sk-06-03-3868
4681.33ft: PVT:Flow and volume alarm reactivated: un-muted
4681.33ft: ZERO ALL PUMPS from SideKick sk-06-03-3868
4681.33ft: MW-9.5+ VIS-46 PH-8.9 GPM-12
4681.33ft: FILL TRIP TANK
4681.33ft: PVT:Volume alarm muted
4681.33ft: PVT:Flow alarm muted
4681.33ft: MW-9.5 VIS-45
4681.33ft: MW-9.4 VIS-42
4681.33ft: PVT:Volume alarm reactivated: un-muted
4681.33ft: PVT:Flow alarm reactivated: un-muted
4681.33ft: PVT:Flow alarm muted
4681.33ft: PVT:Flow alarm reactivated: un-muted
4681.33ft: PVT:Flow alarm snoozed 10 min
4681.33ft: PVT:Flow alarm reactivated: snooze expired
4681.33ft: MW-9.3+ VIS-42
4681.33ft: BIT DEPTH CHANGED TO 3128.0 FEET
4681.33ft: BIT DEPTH CHANGED TO 4593.0 FEET
4681.33ft: PVT:Flow alarm muted
4687.50ft: Connection at 4685.5
4687.50ft: WT 9.4/ VIS 44/ PH 9.0/ H2O 12 GPM
4687.50ft: ZDiffPressure from SideKick sk-04-09-1056
4689.99ft: PVT:Flow alarm reactivated: un-muted

4738.62ft: TRAN. 100 BBLs FROM UPRIGHT









5416.67ft: ZWOB from SideKick sk-04-09-1056
5416.67ft: SURVEY @ 5367' INC 23.6 AZI 67.4
5416.67ft: ZDiffPressure from SideKick sk-04-09-1056
5416.67ft: PVT:Flow alarm reactivated: un-muted

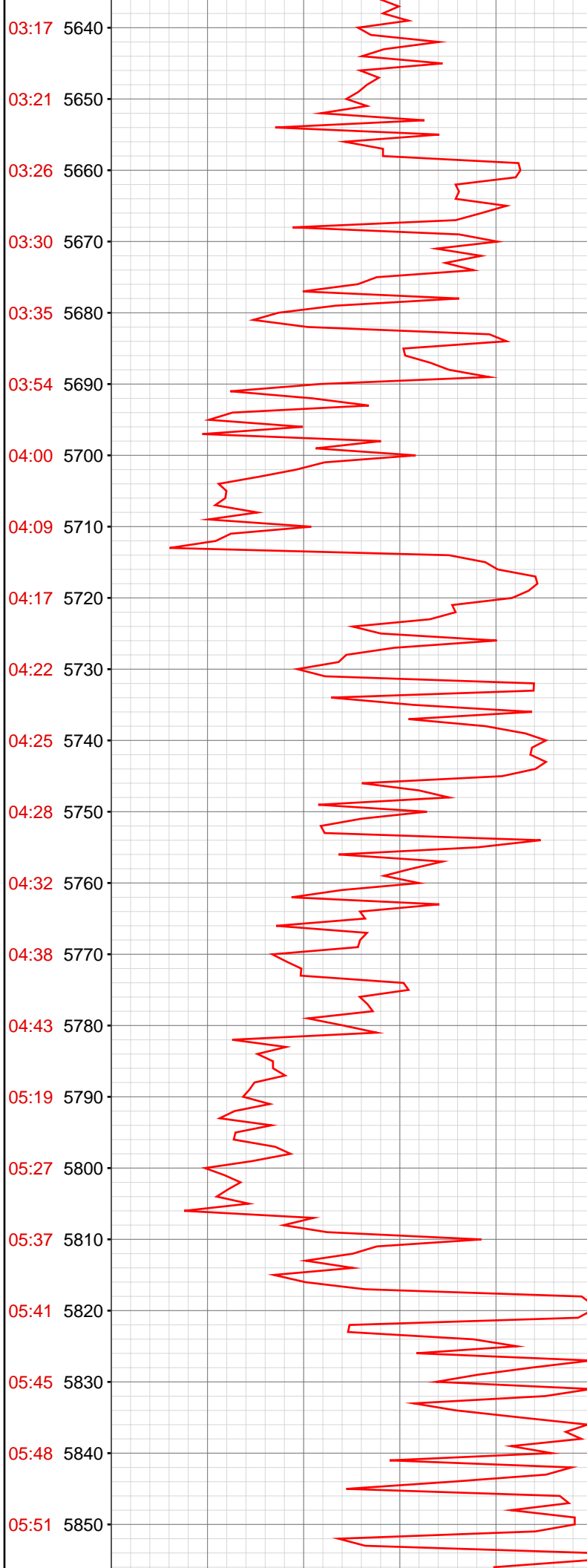
5507.78ft: WT 9.5+/ VIS 45/ PH 9.7/ H2O 6 GPM Connection at 5508.6
5507.78ft: PVT:Flow alarm muted
5507.78ft: SURVEY @ 5458' INC 23.0 AZI 65.2
5507.78ft: ZDiffPressure from SideKick sk-04-09-1056
5507.78ft: PVT:Flow alarm reactivated: un-muted

5579.46ft: WT 9.5+/ VIS 45/ PH 9.5/ H2O 6 GPM
5581.59ft: PVT:Flow alarm muted
5581.59ft: PVT:Volume alarm muted
5581.59ft: ZERO ALL PUMPS from SideKick sk-06-03-3868
5581.59ft: ZERO ALL PUMPS from SideKick sk-04-09-1056
5581.59ft: ZDiffPressure from SideKick sk-04-09-1056
5581.59ft: ZDiffPressure from SideKick sk-04-09-1056
5581.59ft: ZDiffPressure from SideKick sk-04-09-1056
5583.73ft: PVT:Flow alarm reactivated: un-muted

5594.82ft: Connection at 5600.2
5599.05ft: PVT:Flow alarm muted
5599.05ft: SURVEY @ 5550' INC 20.7 AZI 64.2
5599.05ft: ZDiffPressure from SideKick sk-04-09-1056
5599.05ft: PVT:Flow alarm reactivated: un-muted

5609.68ft: WT 9.5+/ VIS 45/ PH 9.3/ H2O 6 GPM

5622.18ft: ZDiffPressure from SideKick sk-04-09-1056
5623.29ft: PUMP SWEEP



5643.83ft: PUMP OUT CELLAR

5653.71ft: ZDiffPressure from SideKick sk-04-09-1056

5690.35ft: PVT:Flow alarm muted
5690.35ft: Connection at 5691.8
5690.35ft: SURVEY @ 5641' INC 19 AZI 66.2
5690.35ft: ZDiffPressure from SideKick sk-04-09-1056
5690.35ft: PVT:Flow alarm reactivated: un-muted

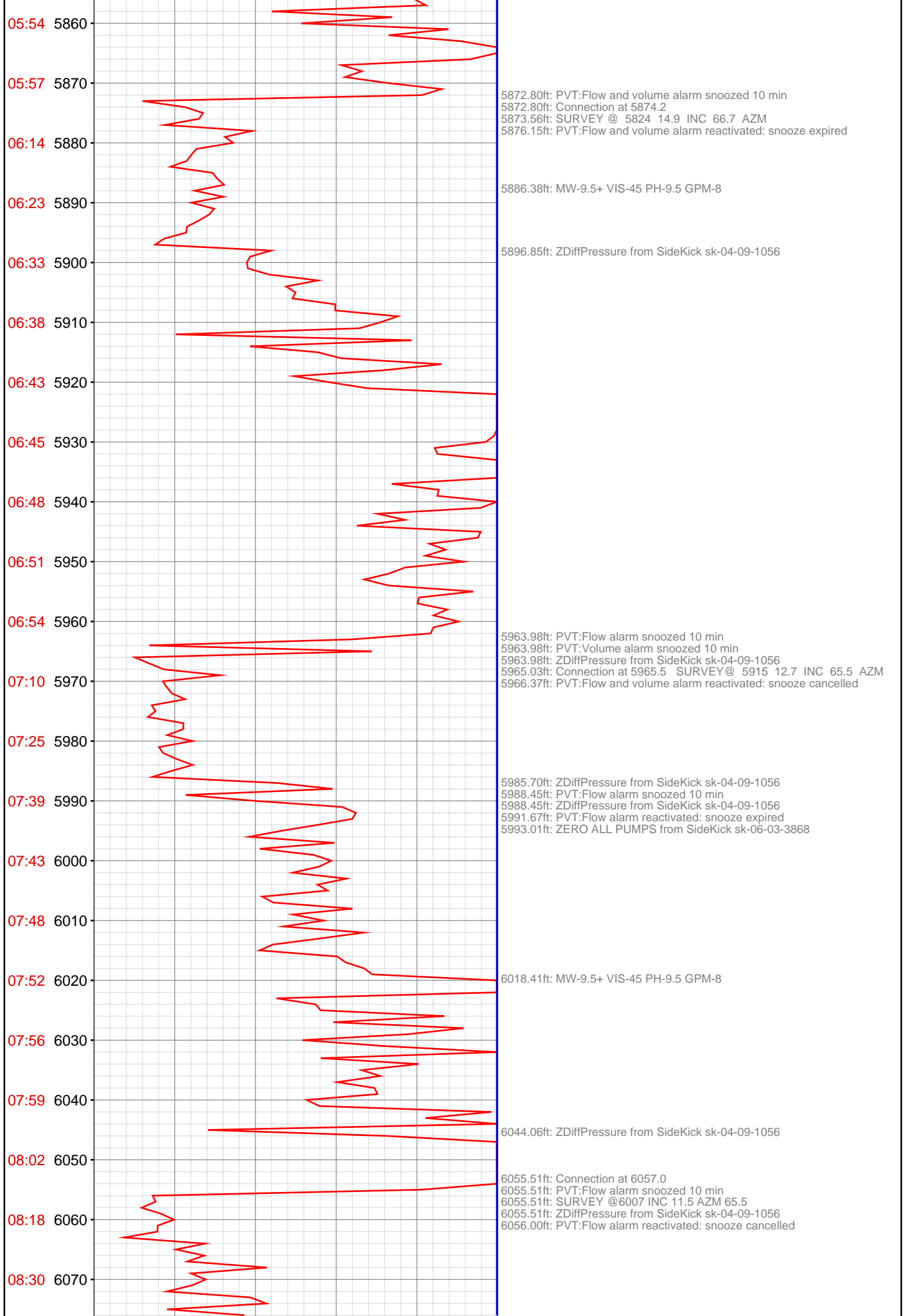
5703.61ft: WT 9.5+/ VIS 46/ PH 9.8/ H2O 8 GPM

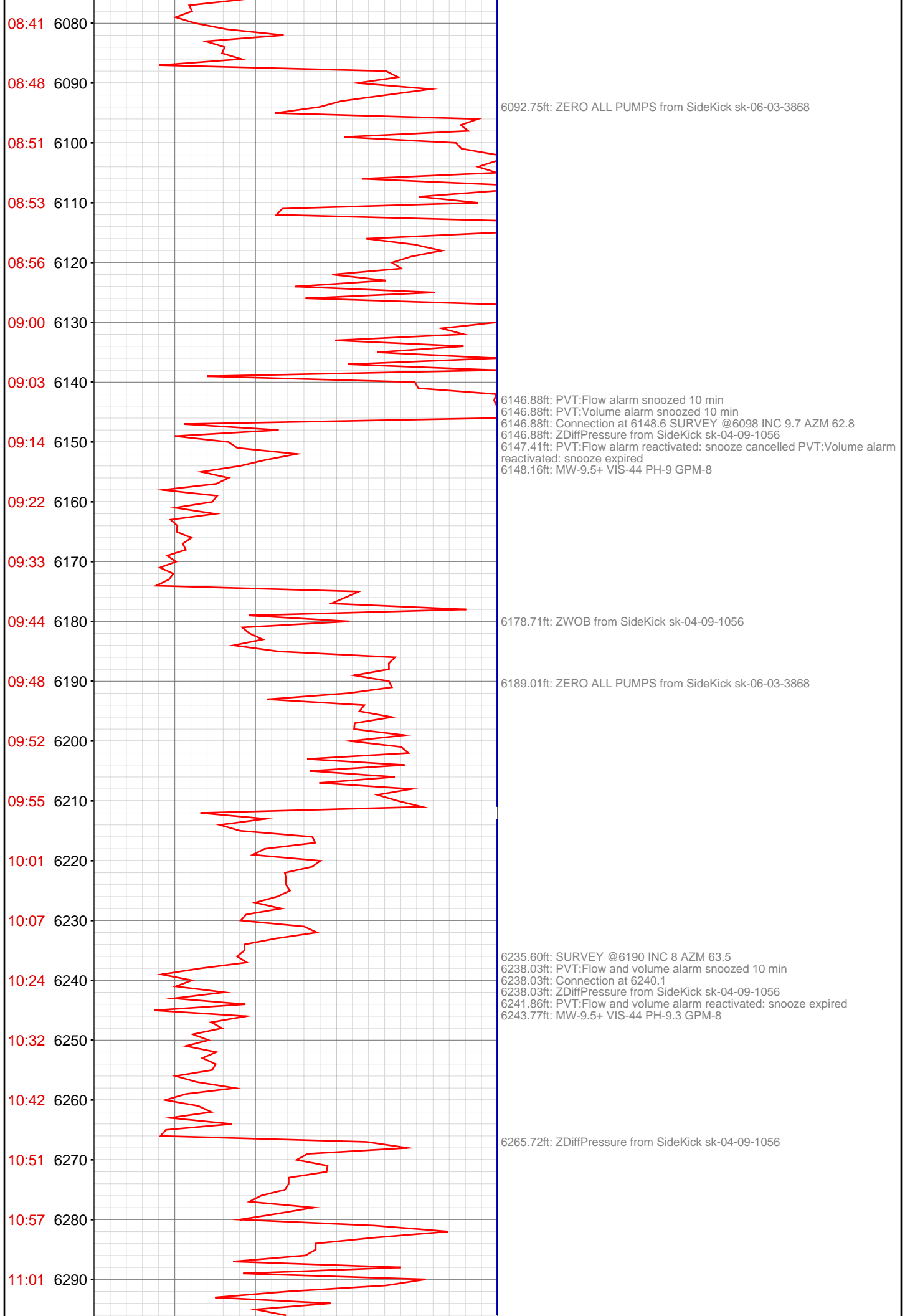
5712.80ft: ZDiffPressure from SideKick sk-04-09-1056

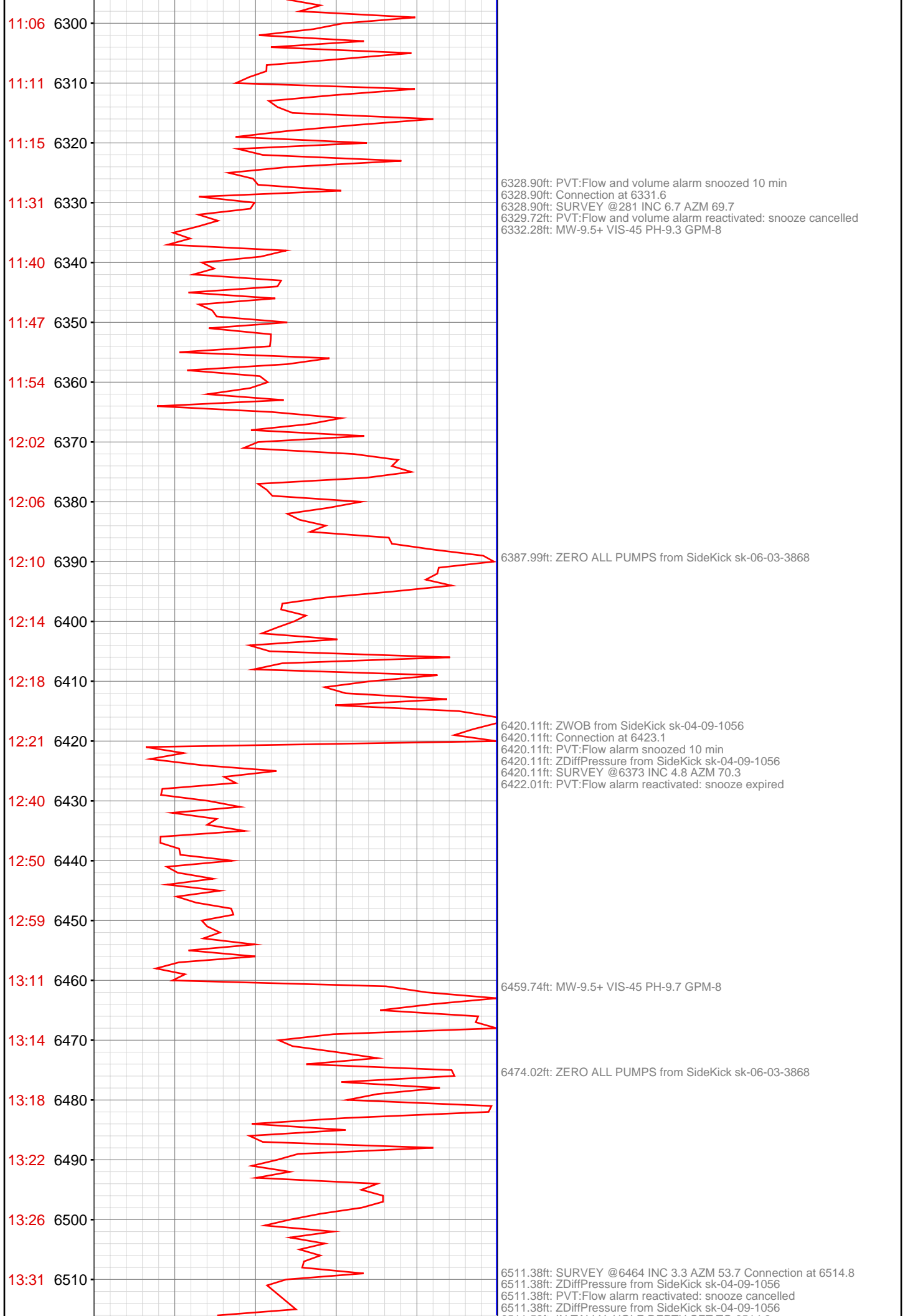
5728.94ft: PUMP SWEEP

5781.73ft: PVT:Flow alarm muted
5781.73ft: WT 9.5+/ VIS 45/ PH 9.7/ H2O 8 GPM
5781.73ft: Connection at 5783.2
5781.73ft: SPR
5781.73ft: SURVEY @ 5733 17.3 INC 65.6 AZM
5781.73ft: ZDiffPressure from SideKick sk-04-09-1056

5805.97ft: PVT:Flow alarm reactivated: un-muted
5807.55ft: PVT:Volume alarm reactivated: un-muted







6511.58ft: IN TALLY: HOLE DEPTH SET TO 6514.8

6535.66ft: MW-9.5+ VIS-44 PH-9.2 GPM-8

6551.54ft: ZDiffPressure from SideKick sk-04-09-1056

6575.00ft: ZERO ALL PUMPS from SideKick sk-06-03-3868

6605.38ft: PVT:Flow and volume alarm muted
6605.38ft: SURVEY @6556 INC 1 AZM 52.5
6605.38ft: Connection at 6606.5
6605.38ft: ZDiffPressure from SideKick sk-04-09-1056
6605.38ft: ZWOB from SideKick sk-04-09-1056

6650.66ft: MW-9.5 VIS-44 PH-9.7 GPM-8
6695.93ft: ZERO ALL PUMPS from SideKick sk-06-03-3868
6695.93ft: ZERO ALL PUMPS from SideKick sk-06-03-3868
6695.93ft: FILLING TRIP TANK
6695.93ft: MW-9.5 VIS-46 PH-9.7 H2O-OFF
6695.93ft: ZERO ALL PUMPS from SideKick sk-06-03-3868
6695.93ft: WT 9.5/ VIS 45
6695.93ft: PVT Horn Disabled
6695.93ft: PVT:Flow alarm reactivated: un-muted
6695.93ft: PVT:Flow alarm muted
6695.93ft: PVT:Flow alarm reactivated: un-muted
6695.93ft: PVT:Flow alarm muted
6695.93ft: PVT:Flow alarm reactivated: un-muted
6695.93ft: WT 9.5+/ VIS 45
6695.93ft: PVT:Flow alarm muted
6695.93ft: ZERO ALL PUMPS from SideKick sk-06-03-3868
6695.93ft: ZERO ALL PUMPS from SideKick sk-06-03-3868
6695.93ft: ZERO ALL PUMPS from SideKick sk-04-09-1056
6695.93ft: WT 9.6/ VIS 44
6695.93ft: ZERO ALL PUMPS from SideKick sk-04-09-1056
6695.93ft: WT 9.5+/ VIS 45
6695.93ft: PVT Horn Enabled
6695.93ft: ZERO ALL PUMPS from SideKick sk-04-09-1056
6695.93ft: ZERO ALL PUMPS from SideKick sk-04-09-1056
6695.93ft: ZERO ALL PUMPS from SideKick sk-04-09-1056
6695.93ft: ZERO ALL PUMPS from SideKick sk-04-09-1056
6695.93ft: ZERO ALL PUMPS from SideKick sk-04-09-1056
6695.93ft: ZERO ALL PUMPS from SideKick sk-06-03-3868
6695.93ft: PVT Horn Disabled
6695.93ft: ZERO ALL PUMPS from SideKick sk-04-09-1056
6695.93ft: WT 9.5/ VIS 45
6695.93ft: ZERO ALL PUMPS from SideKick sk-04-09-1056
6695.93ft: ZERO ALL PUMPS from SideKick sk-04-09-1056
6695.93ft: ZERO ALL PUMPS from SideKick sk-04-09-1056
6695.93ft: ZERO ALL PUMPS from SideKick sk-04-09-1056
6695.93ft: ZERO ALL PUMPS from SideKick sk-04-09-1056
6695.93ft: MW-9.5+ VIS-46 PH-9
6695.93ft: WT-9.6+/VIS-46/PH-8.6
6695.93ft: MW-9.5+ VIS-46 PH-9
6695.93ft: PVT Horn Enabled
6695.93ft: MW-9.5/VIS-45 PH-9
6695.93ft: MW-9.5 VIS-44 PH-9
6697.90ft: Connection at 6698.9
6697.90ft: ZWOB from SideKick sk-04-09-1056
6697.90ft: ZDiffPressure from SideKick sk-04-09-1056
6706.27ft: PUMP SWEEP
6708.01ft: ZERO ALL PUMPS from SideKick sk-06-03-3868

13:45 6520

13:56 6530

14:06 6540

14:16 6550

14:24 6560

14:28 6570

14:32 6580

14:36 6590

14:40 6600

15:33 6610

15:37 6620

15:42 6630

15:52 6640

15:56 6650

16:01 6660

16:04 6670

16:08 6680

16:14 6690

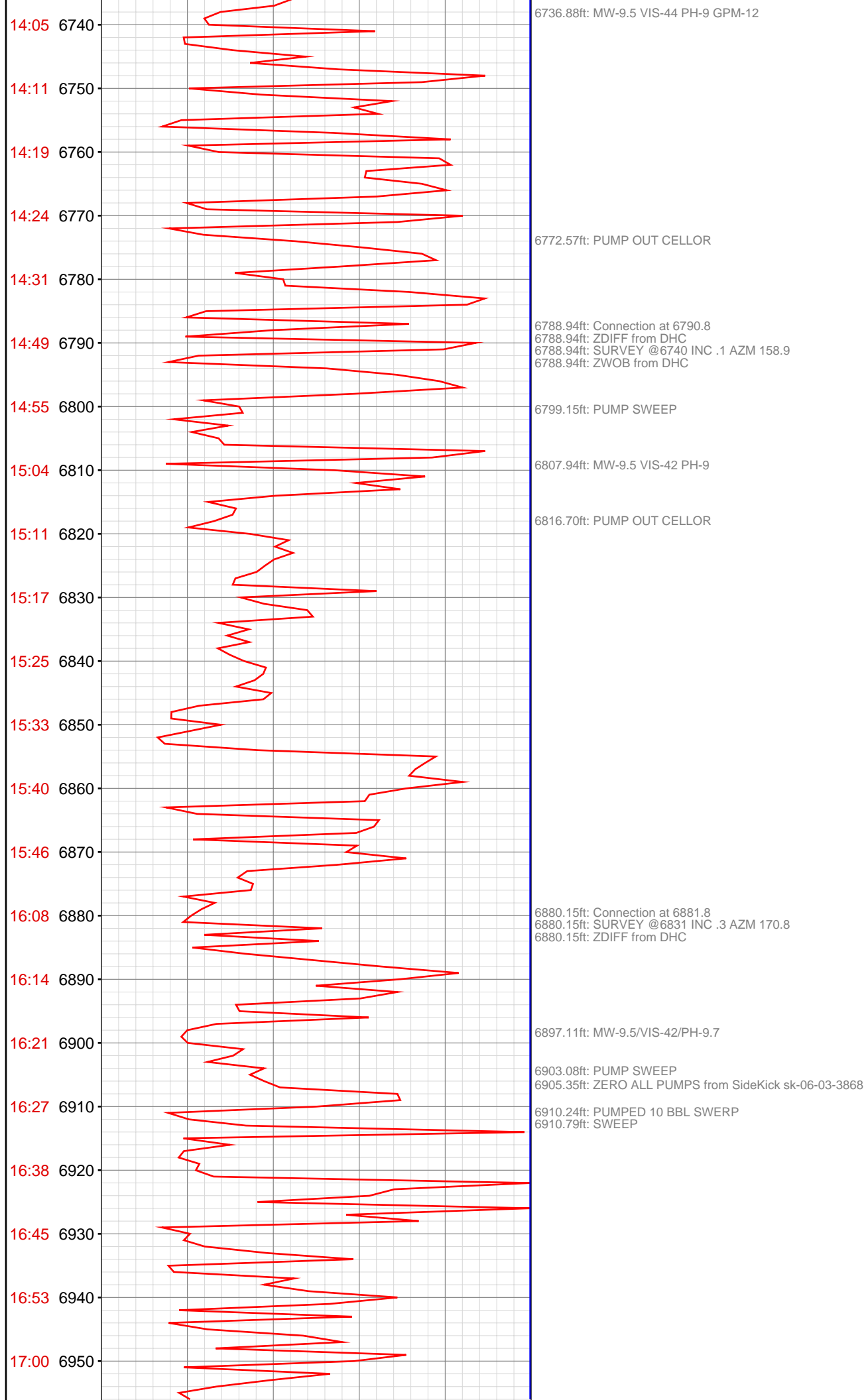
Oct 04, 2013

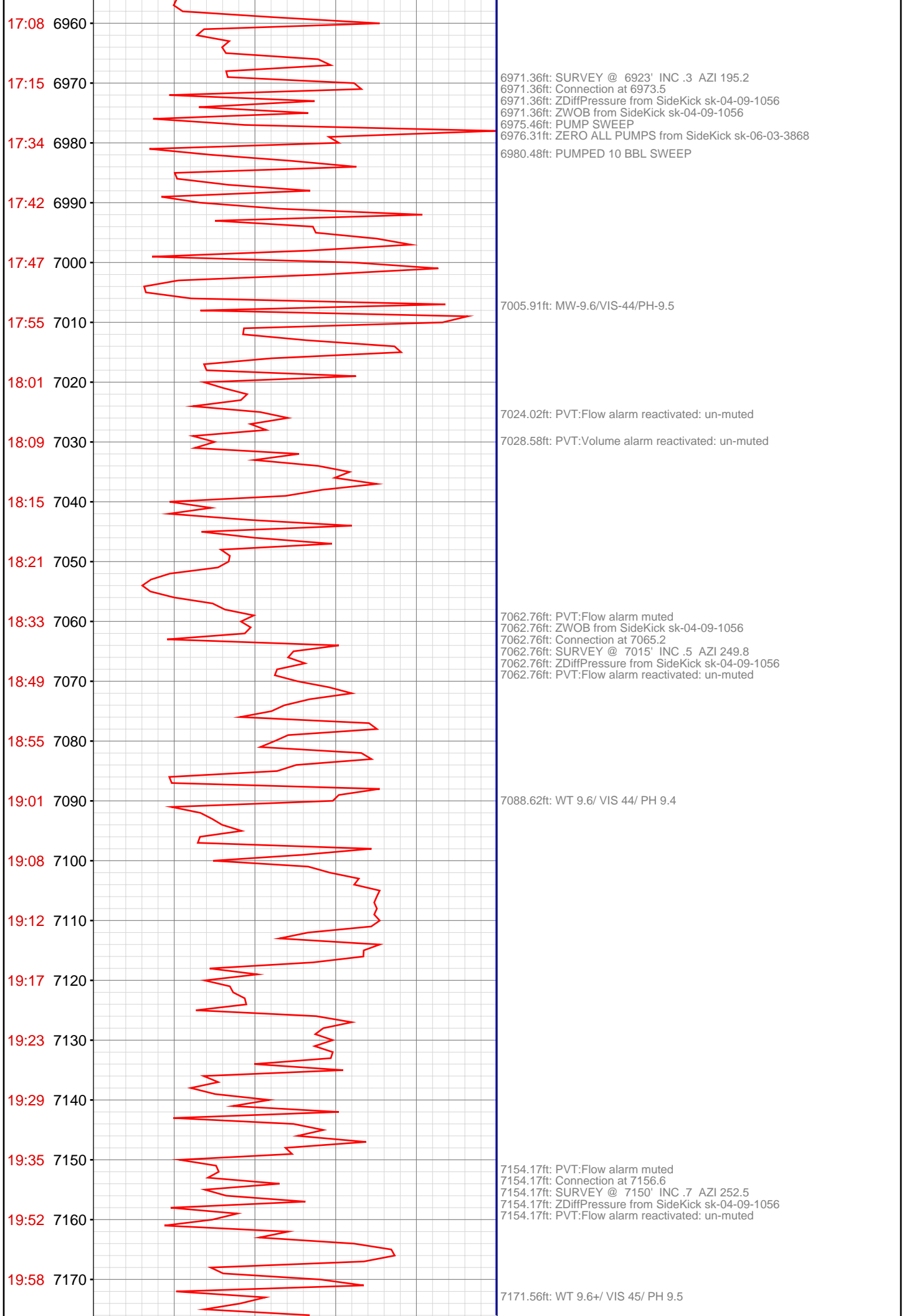
13:34 6700

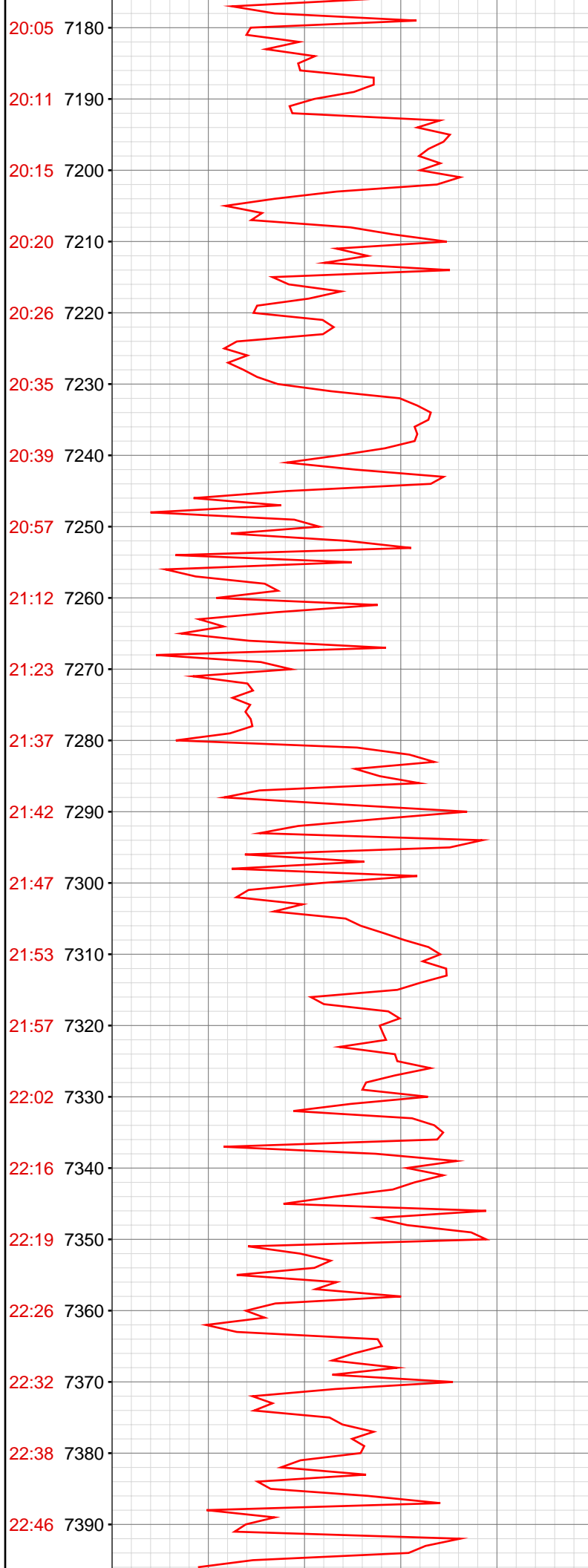
13:44 6710

13:52 6720

13:58 6730







7245.34ft: PVT:Flow alarm muted
7245.34ft: Connection at 7248.1
7245.34ft: SURVEY @ 7198' INC 1.1 AZI 253.9
7245.34ft: ZDiffPressure from SideKick sk-04-09-1056

7253.94ft: ZDiffPressure from SideKick sk-04-09-1056
7253.94ft: PVT:Flow alarm reactivated: un-muted

7268.18ft: SLIDING

7314.11ft: WT 9.6+/- VIS 45/ PH 9.6

7336.42ft: PVT:Flow alarm muted
7336.42ft: Connection at 7339.9
7336.42ft: SURVEY @ 7289' INC 0 AZI 184.2
7336.42ft: ZDiffPressure from SideKick sk-04-09-1056

7343.37ft: PVT:Flow alarm reactivated: un-muted

22:52 7400

22:57 7410

23:02 7420

23:21 7430

23:28 7440

23:34 7450

23:40 7460

23:46 7470

23:56 7480

Oct 05, 2013

00:02 7490

00:07 7500

00:12 7510

00:28 7520

00:32 7530

00:38 7540

00:43 7550

00:49 7560

00:59 7570

01:07 7580

01:13 7590

01:18 7600

01:24 7610

7420.05ft: WT 9.7/ VIS 44/ PH 9.6

7427.36ft: DEFOAM MUD

7427.85ft: PVT:Flow alarm muted

7427.85ft: Connection at 7431.6

7427.85ft: ZWOB from SideKick sk-04-09-1056

7427.85ft: SURVEY @ 7381' INC .2 AZI 348.9

7427.85ft: PVT:Flow alarm reactivated: un-muted

7503.71ft: WT 9.7+/ VIS 45/ PH 9.6

7519.16ft: PVT:Flow alarm muted

7519.16ft: Connection at 7522.9

7519.16ft: SURVEY @ 7472' INC .4 AZI 333.8

7519.16ft: PVT:Flow alarm reactivated: un-muted

7571.16ft: WT 9.7+/ VIS 45/ PH 9.7

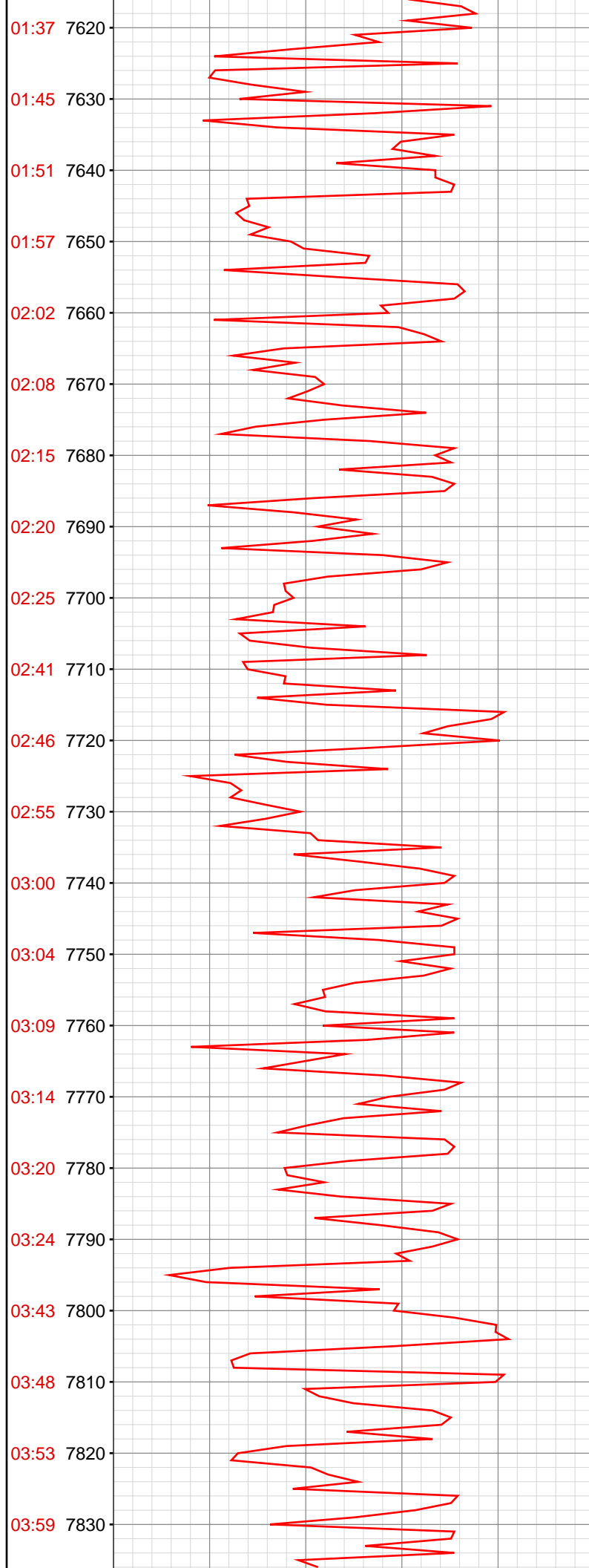
7610.14ft: PVT:Flow alarm muted

7610.14ft: Connection at 7614.0

7610.14ft: SURVEY @ 7563' INC .5 AZI 326.3

7610.14ft: ZERO ALL PUMPS from SideKick sk-04-09-1056

7610.14ft: PVT:Flow alarm reactivated: un-muted



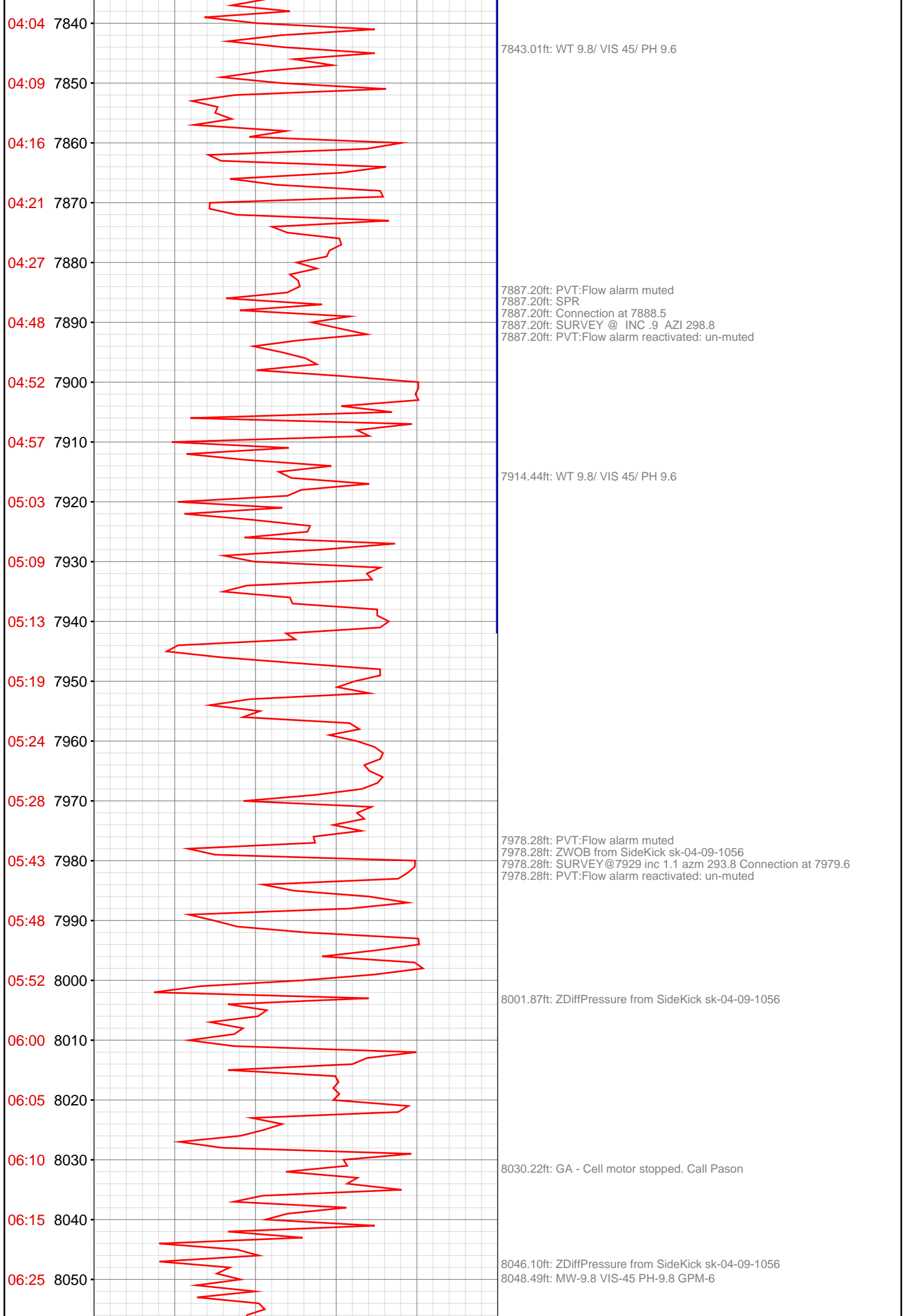
7673.75ft: WT 9.8/ VIS 45/ PH 9.6

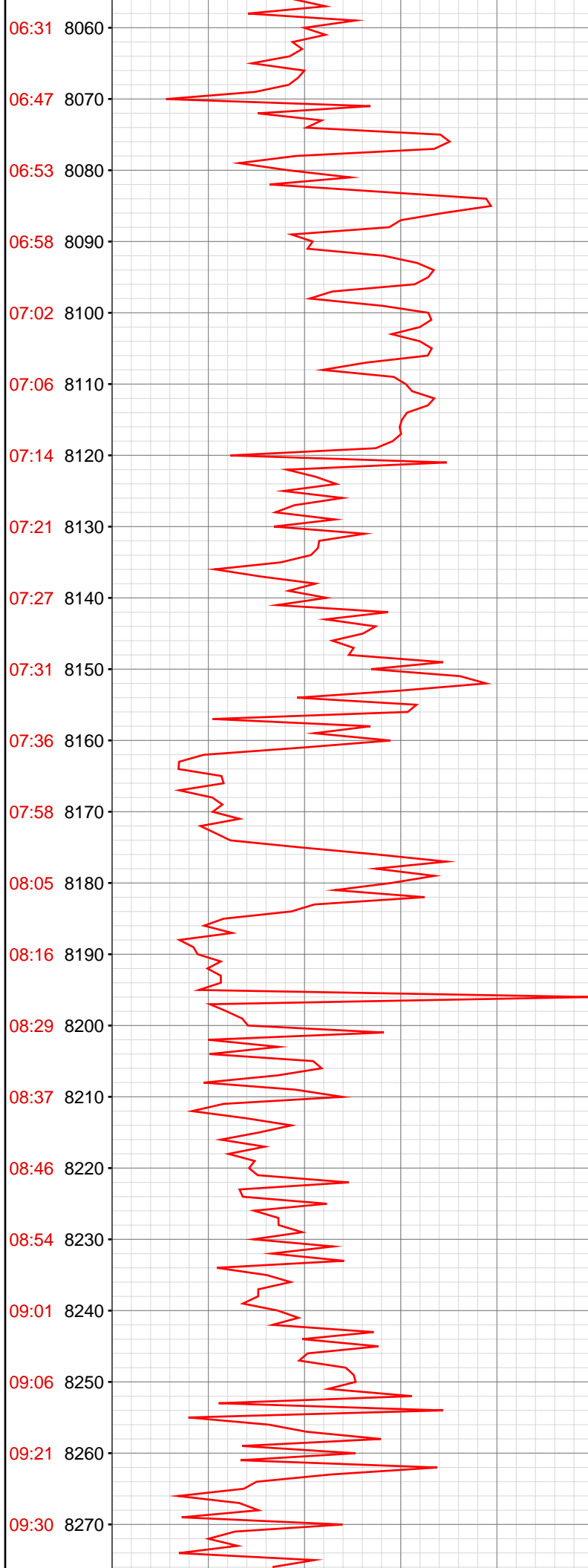
7704.46ft: PVT:Flow alarm muted
7704.46ft: Connection at 7705.5
7704.46ft: ZWOB from SideKick sk-04-09-1056
7704.46ft: SURVEY @ 7655' INC .6 AZI 315.7
7704.46ft: PVT:Flow alarm reactivated: un-muted

7753.97ft: WT 9.8/ VIS 45/ PH 9.7

7759.58ft: PUMP OUT CELLAR

7795.37ft: PVT:Flow alarm muted
7795.37ft: Connection at 7797.1
7795.37ft: SURVEY @ 7747' INC .8 AZI 300.6
7795.37ft: PVT:Flow alarm reactivated: un-muted





8069.49ft: PVT:Flow alarm snoozed 10 min
8069.49ft: Connection at 8070.8
8069.49ft: SURVEY @8070 inc 1.3 azm 286
8069.49ft: ZDiffPressure from SideKick sk-04-09-1056
8069.49ft: ZWOB from SideKick sk-04-09-1056
8070.93ft: PVT:Flow alarm reactivated: snooze cancelled

8119.95ft: PVT:Flow alarm snoozed 10 min
8119.95ft: ZDiffPressure from SideKick sk-04-09-1056
8123.13ft: PVT:Flow alarm reactivated: snooze expired

8161.02ft: PVT:Flow and volume alarm snoozed 10 min
8161.02ft: PVT:Volume alarm reactivated: snooze expired
8161.02ft: Connection at 8162.4
8161.02ft: SURVEY @8112 INC 1.7 AZM 284.8
8161.02ft: ZDiffPressure from SideKick sk-04-09-1056
8163.06ft: PVT:Flow alarm reactivated: snooze cancelled
8167.52ft: MW-9.8+ VIS-45 PH-9.5 GPM-6

8196.46ft: PVT:Flow and volume alarm muted
8196.46ft: ZDiffPressure from SideKick sk-04-09-1056
8197.28ft: PVT:Flow and volume alarm reactivated: un-muted

8202.36ft: ZERO ALL PUMPS from SideKick sk-06-03-3868
8205.74ft: ZERO ALL PUMPS from SideKick sk-06-03-3868

8252.43ft: PVT:Flow alarm snoozed 10 min
8252.43ft: Connection at 8253.9
8252.43ft: ZDiffPressure from SideKick sk-04-09-1056
8255.68ft: PVT:Flow alarm reactivated: snooze expired

8273.75ft: MW-9.8+ VIS-44 PH-9.3 GPM-6

