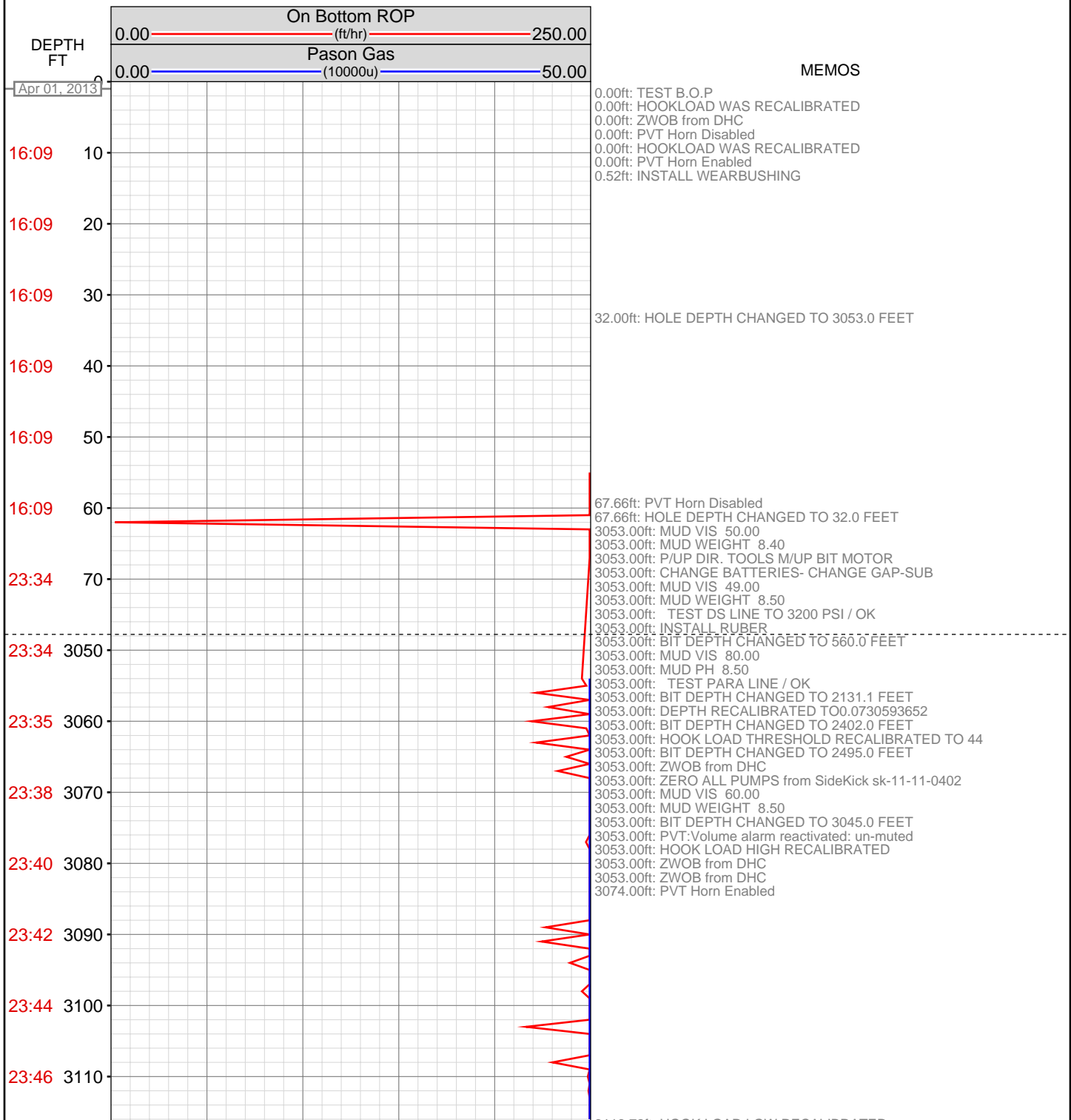


OPERATOR: EnCana Oil & Gas (USA), Inc.
WELL: SG 8509B-24 L24 496
FIELD:
LOCATION: SEC 7 TWP 4S RNG 96W
COUNTRY: USA
RIG: Pat-UTI 330

CONTRACTOR: Patterson-UTI Drilling Company
UNIQUE WELL ID: 0504521158
SPUD DATE: Apr 01, 2013 23:30
RELEASE DATE: Apr 11, 2013 18:00



3118.72ft: HOOK LOAD LOW RECALIBRATED
3118.72ft: SURVEY @ 3086' INC. 16.1 AZ. 73.5
3118.72ft: HOOK LOAD HIGH RECALIBRATED
3118.72ft: Connection at 3141.7
3119.81ft: IN TALLY: HOLE DEPTH SET TO 3141.7

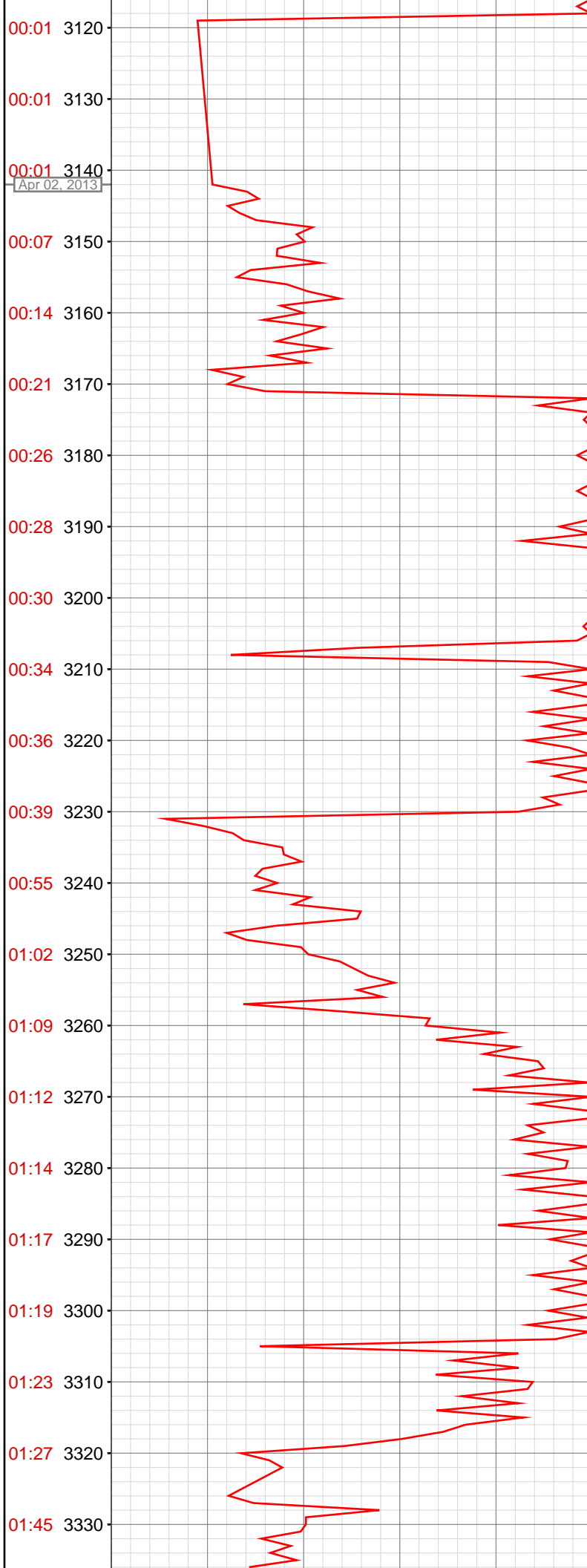
3169.00ft: MUD VIS 65.00
3169.14ft: MUD WEIGHT 8.50
3170.16ft: ZWOB from SideKick sk-11-11-0402
3170.16ft: ZDiffPressure from SideKick sk-11-11-0402

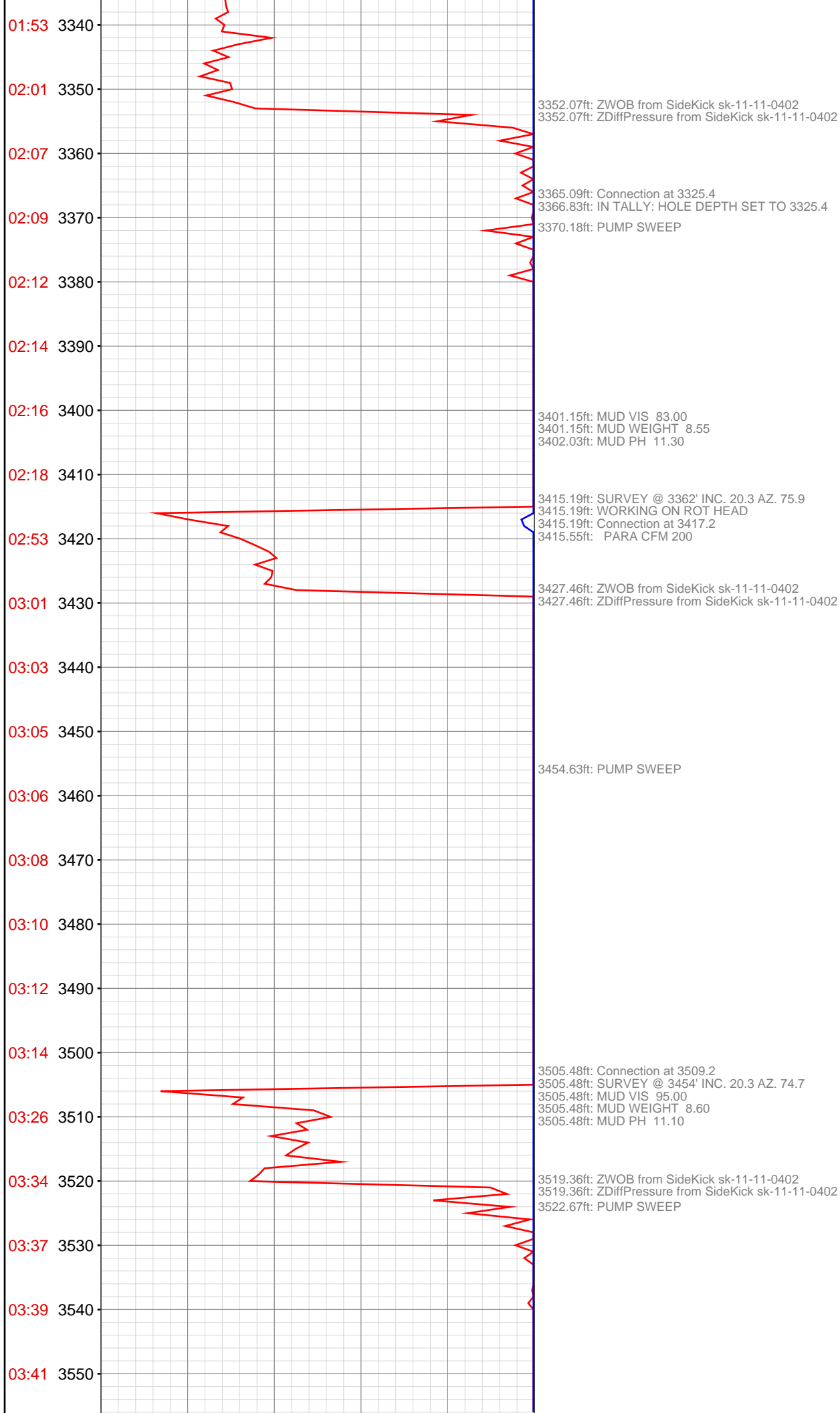
3230.80ft: Connection at 3233.6
3230.80ft: SURVEY @ 3178' INC. 17.3 AZ. 76.4

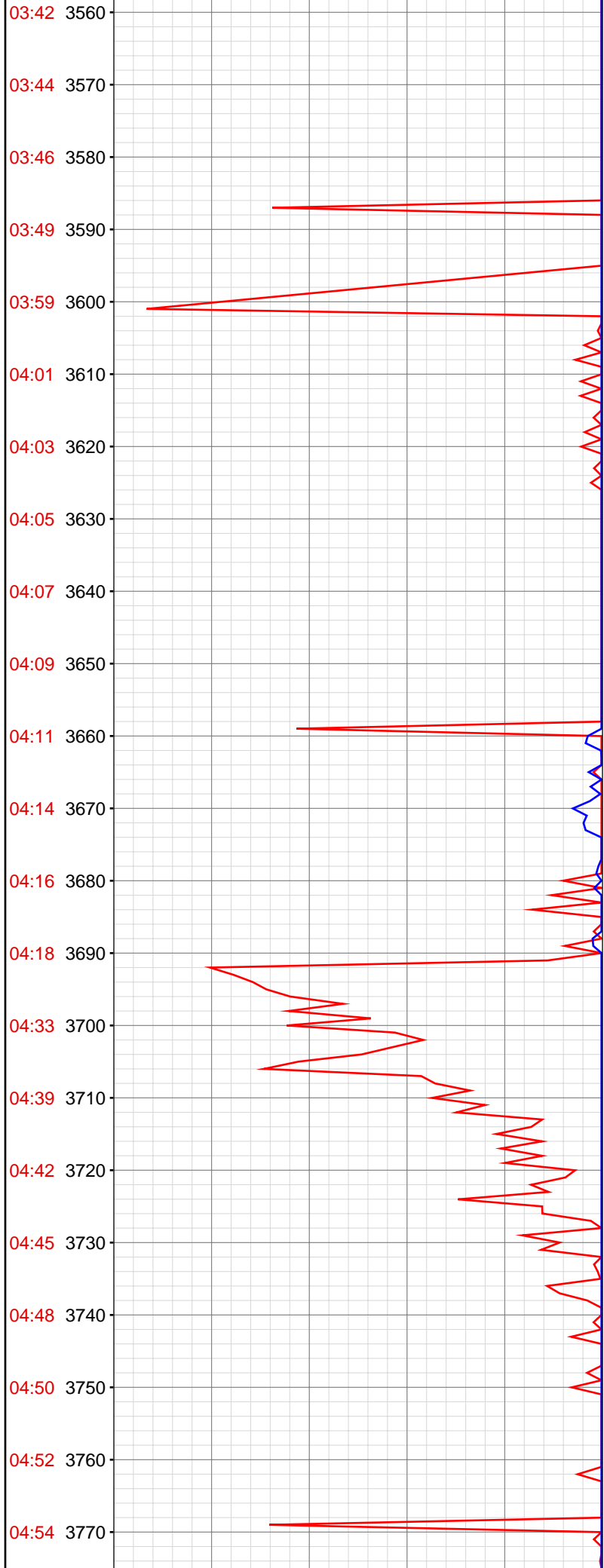
3245.56ft: AIR PARA 200

3256.00ft: MUD VIS 67.00
3256.22ft: MUD WEIGHT 8.50
3256.96ft: ZWOB from SideKick sk-11-11-0402
3256.96ft: ZDiffPressure from SideKick sk-11-11-0402
3256.96ft: PUMP SWEEP

3321.56ft: SURVEY @ 3270' INC. 18.3 AZ. 72.0







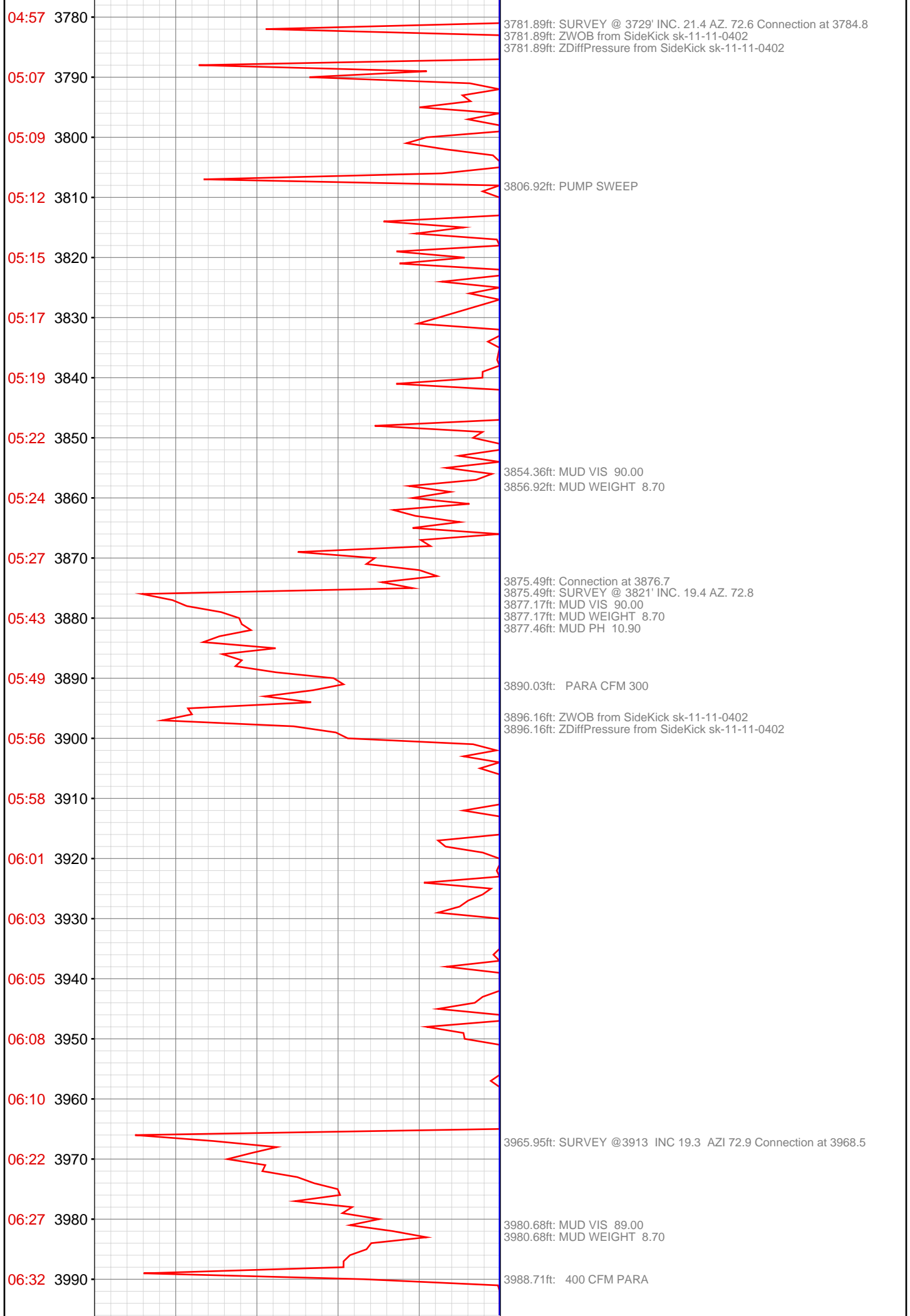
3595.64ft: SURVEY @ 3545' INC. 21.5 AZ. 74.4
3595.64ft: Connection at 3601.0
3595.64ft: ZWOB from SideKick sk-11-11-0402
3595.64ft: ZDiffPressure from SideKick sk-11-11-0402
3595.64ft: IN TALLY: HOLE DEPTH SET TO 3601.0

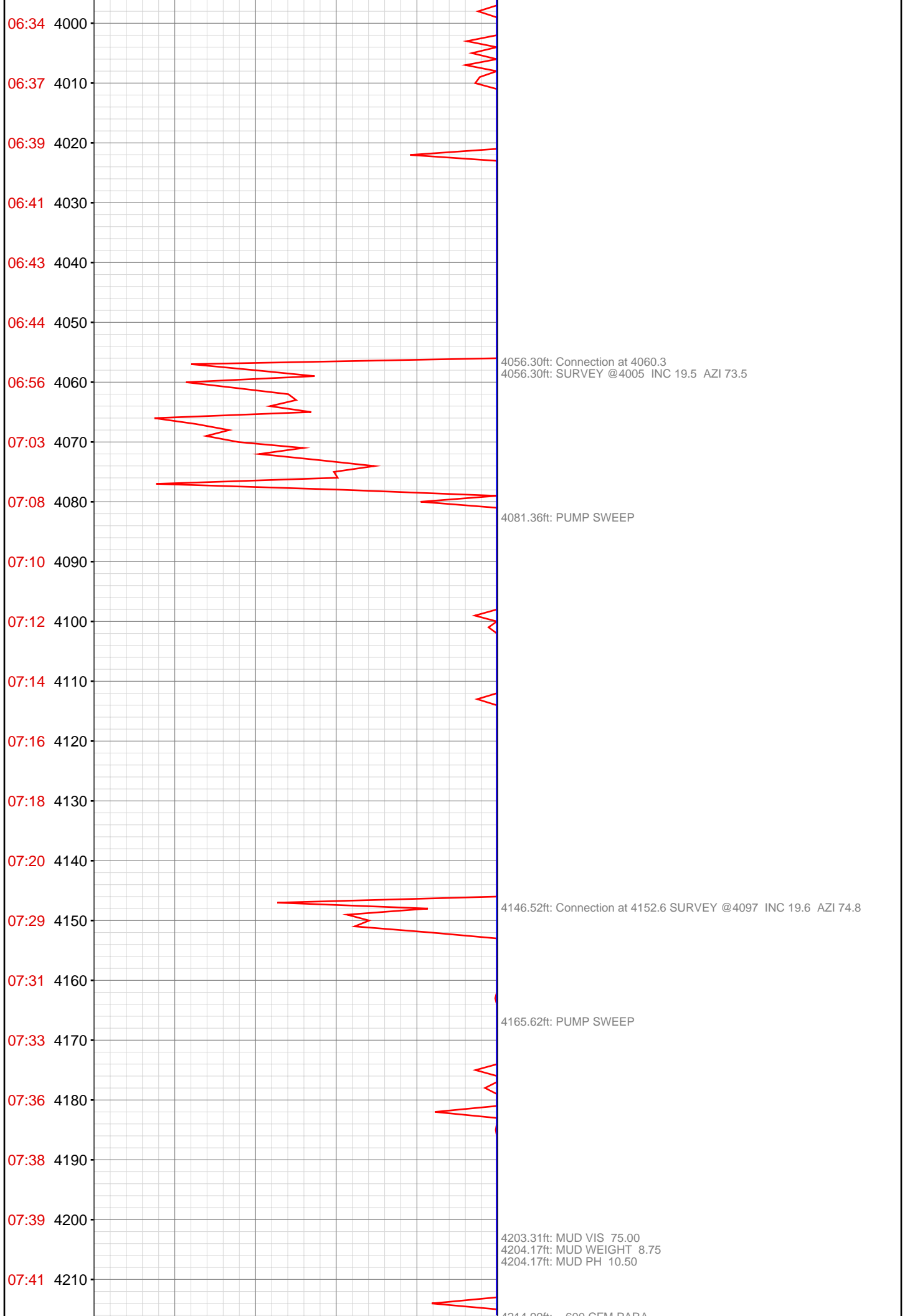
3612.73ft: PUMP SWEEP

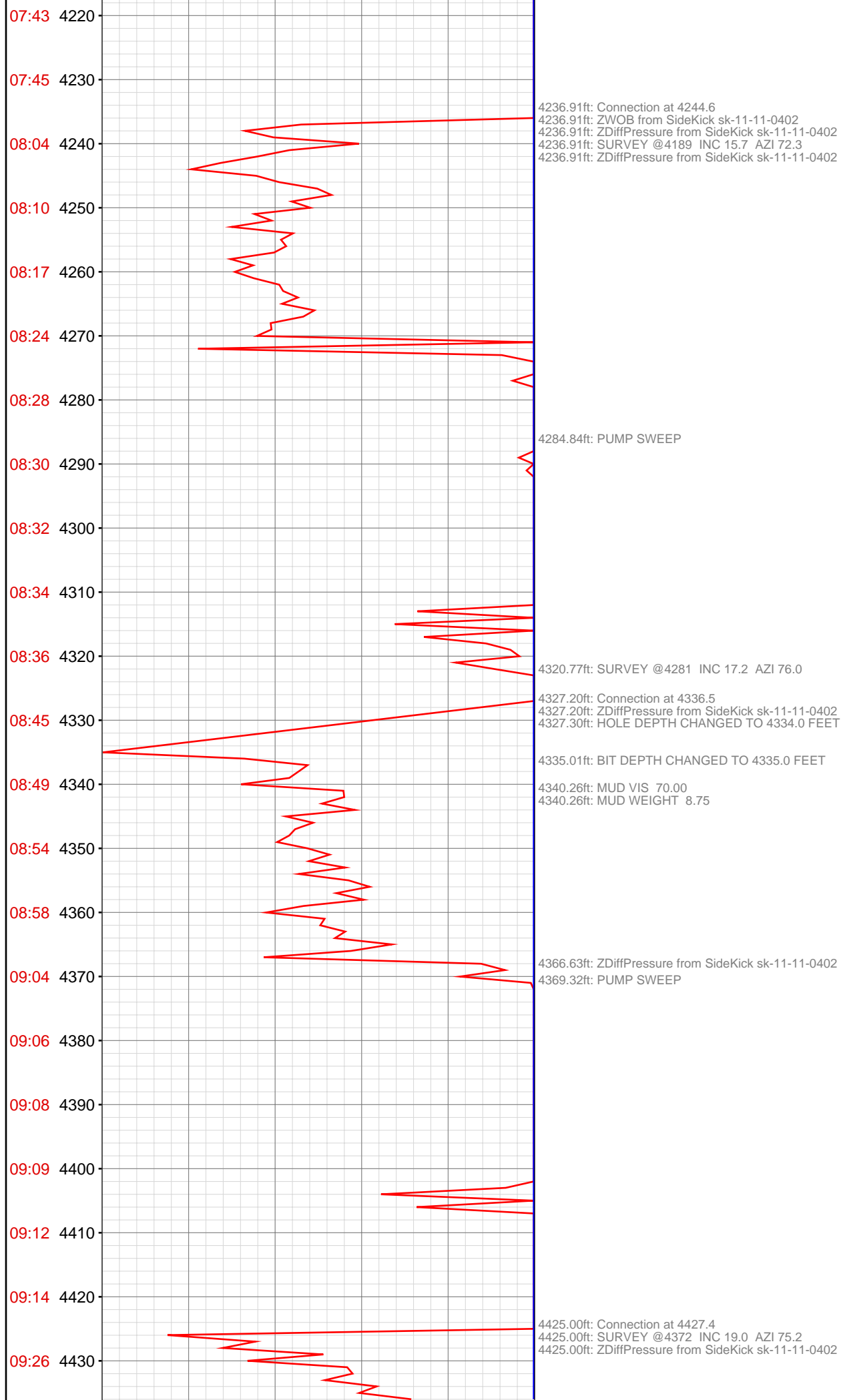
3691.57ft: Connection at 3692.9
3691.57ft: SURVEY @ 3637' INC. 21.0 AZ. 75.1
3692.95ft: PARA CFM 200

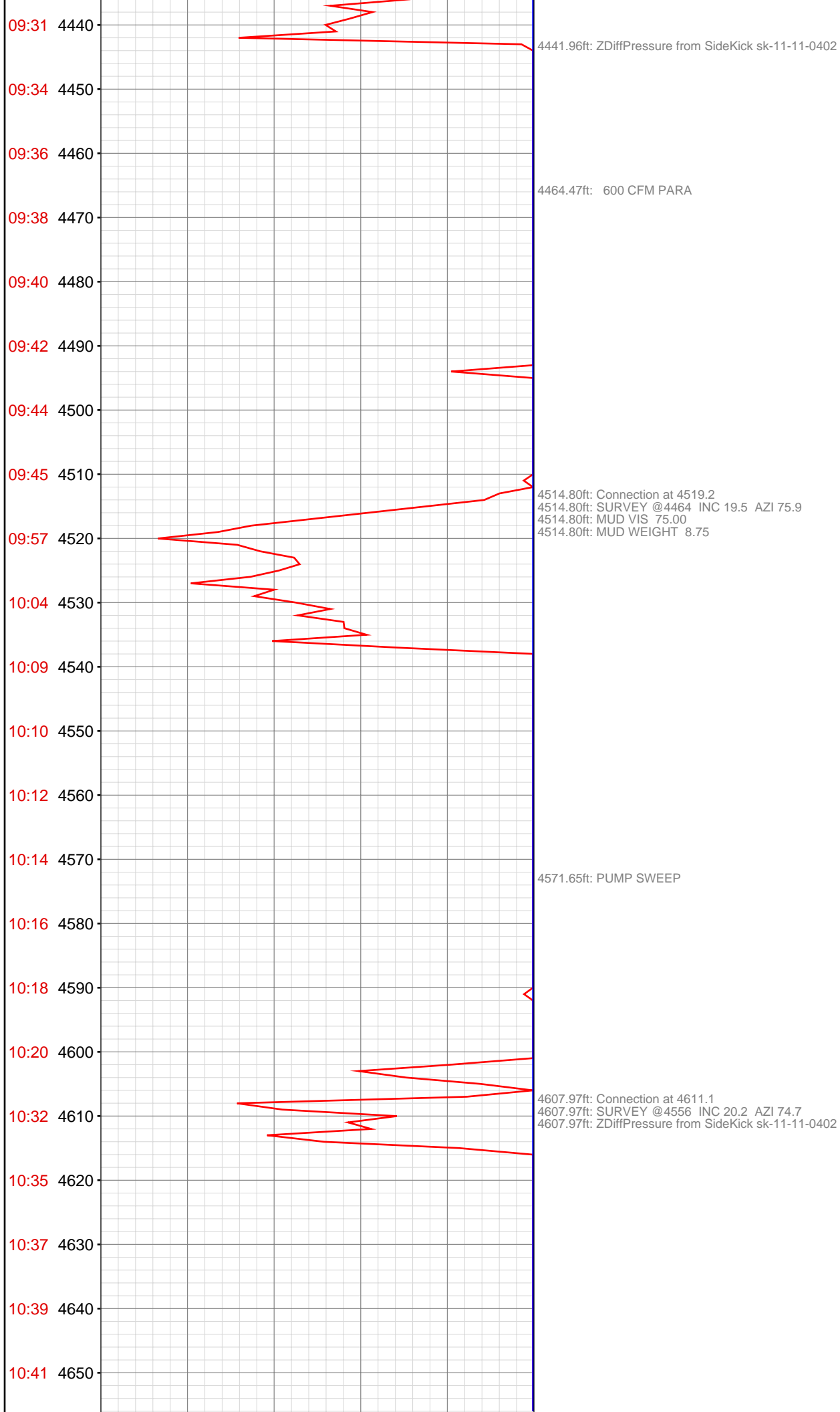
3704.43ft: MUD VIS 95.00
3704.72ft: MUD WEIGHT 8.60
3704.72ft: MUD PH 11.00
3705.32ft: ZWOB from SideKick sk-11-11-0402
3705.32ft: ZDiffPressure from SideKick sk-11-11-0402

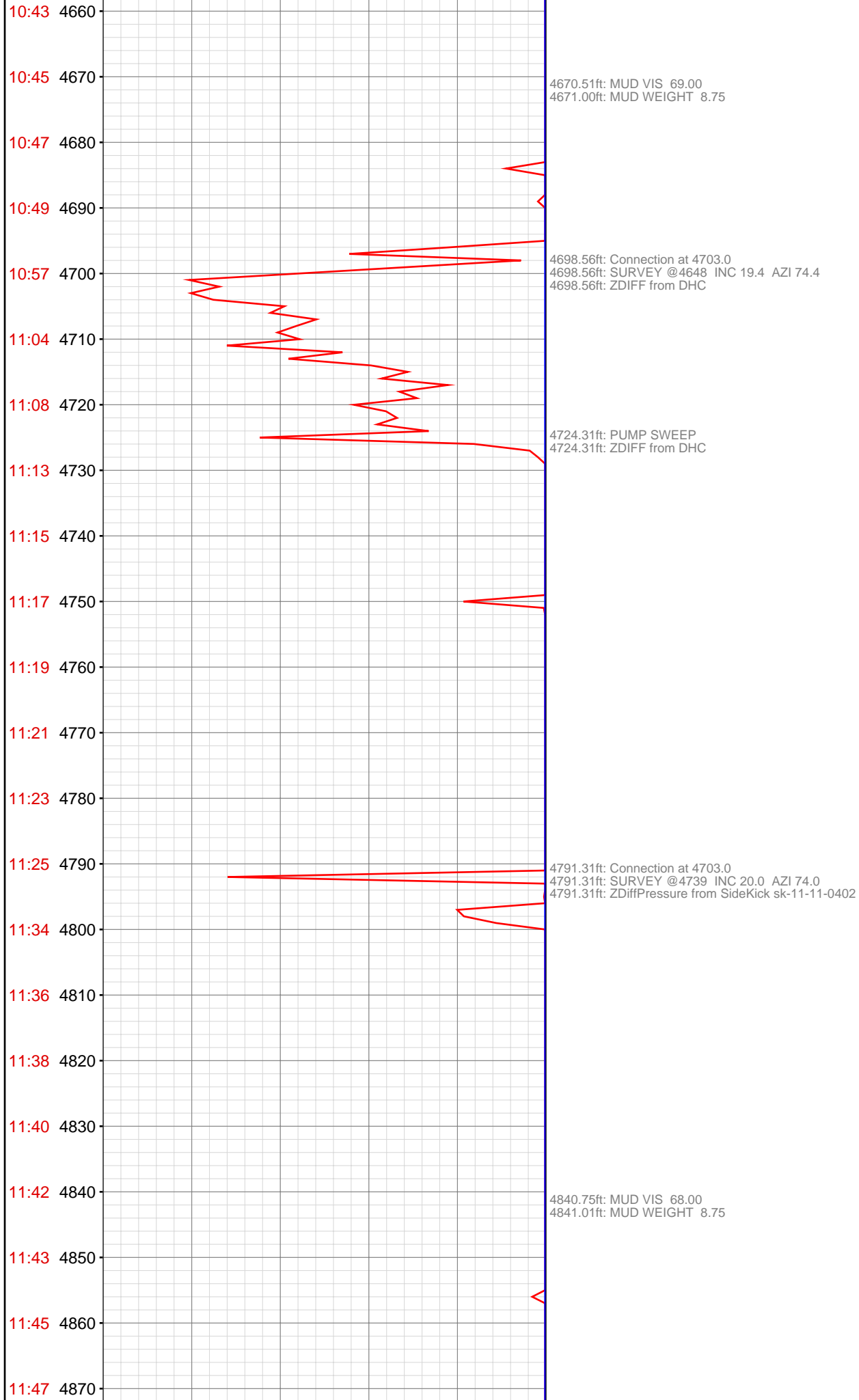
3713.55ft: PUMP SWEEP

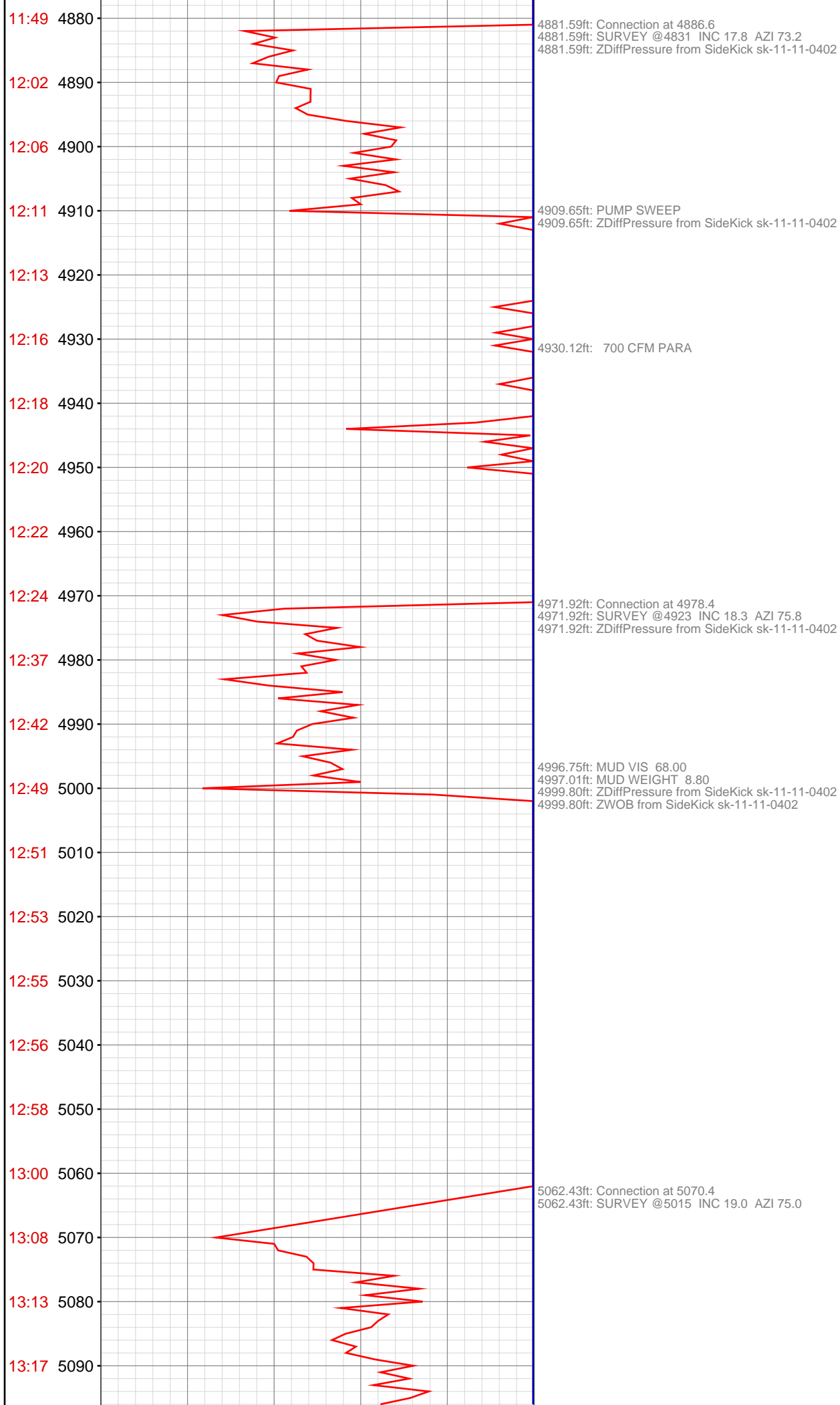


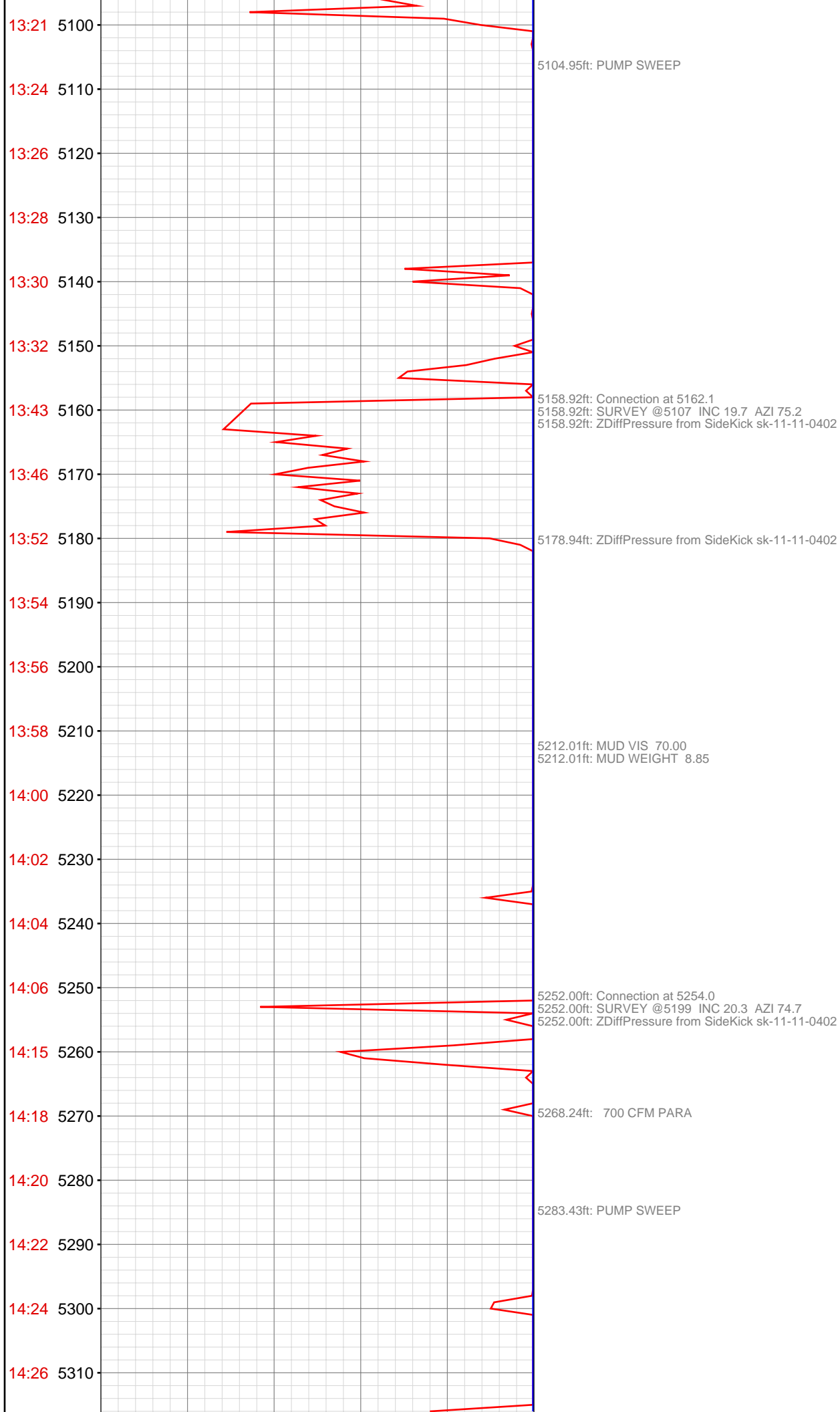


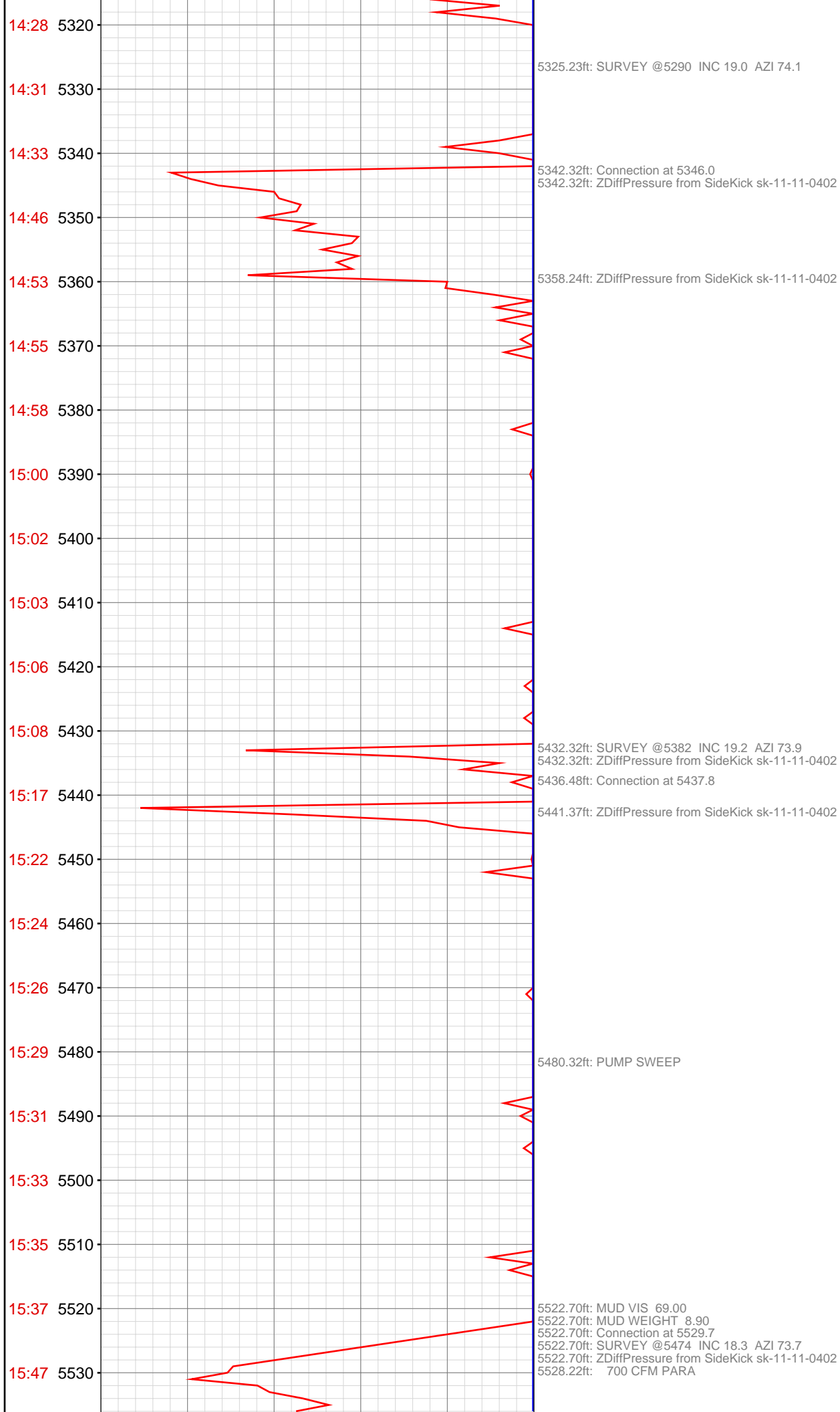


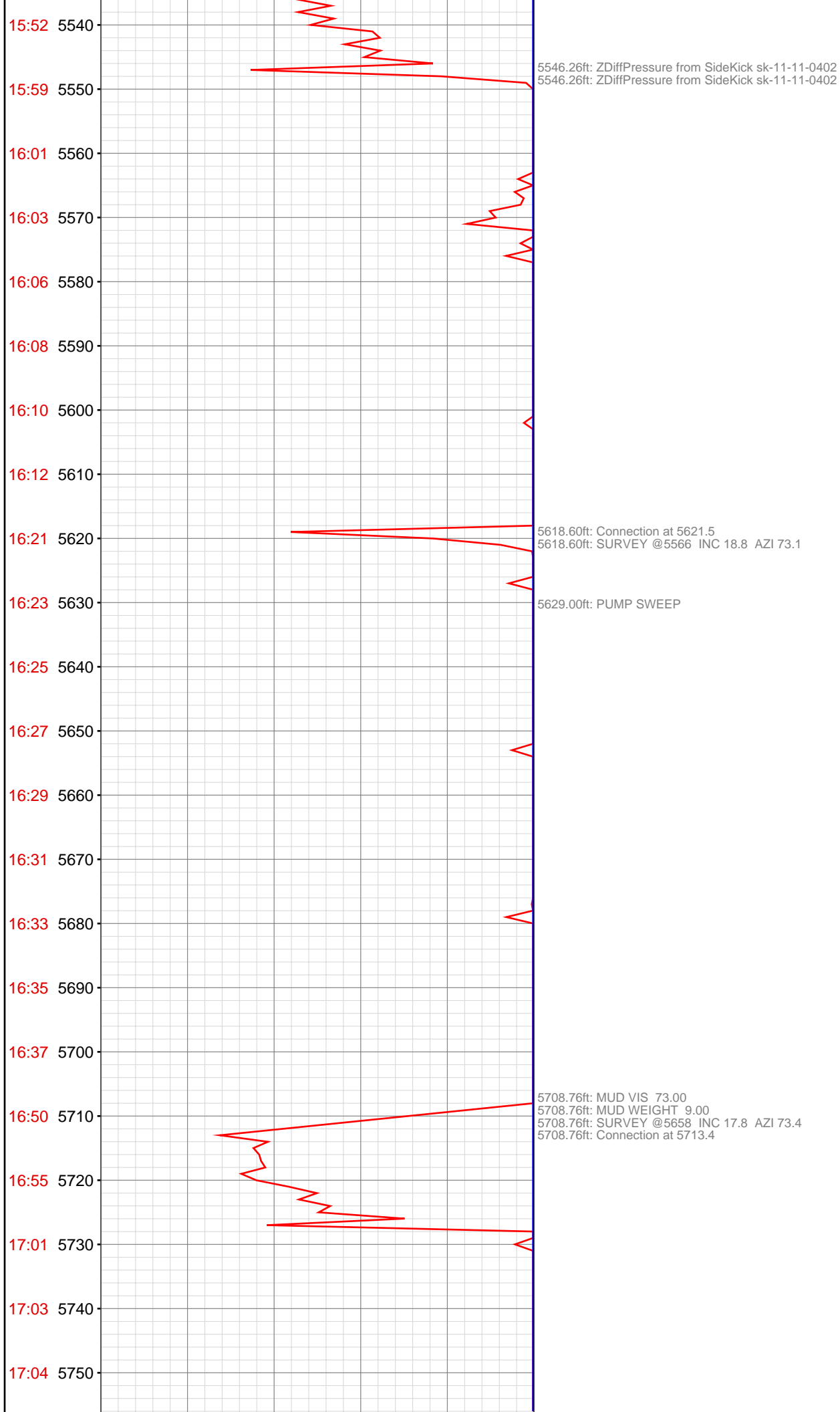


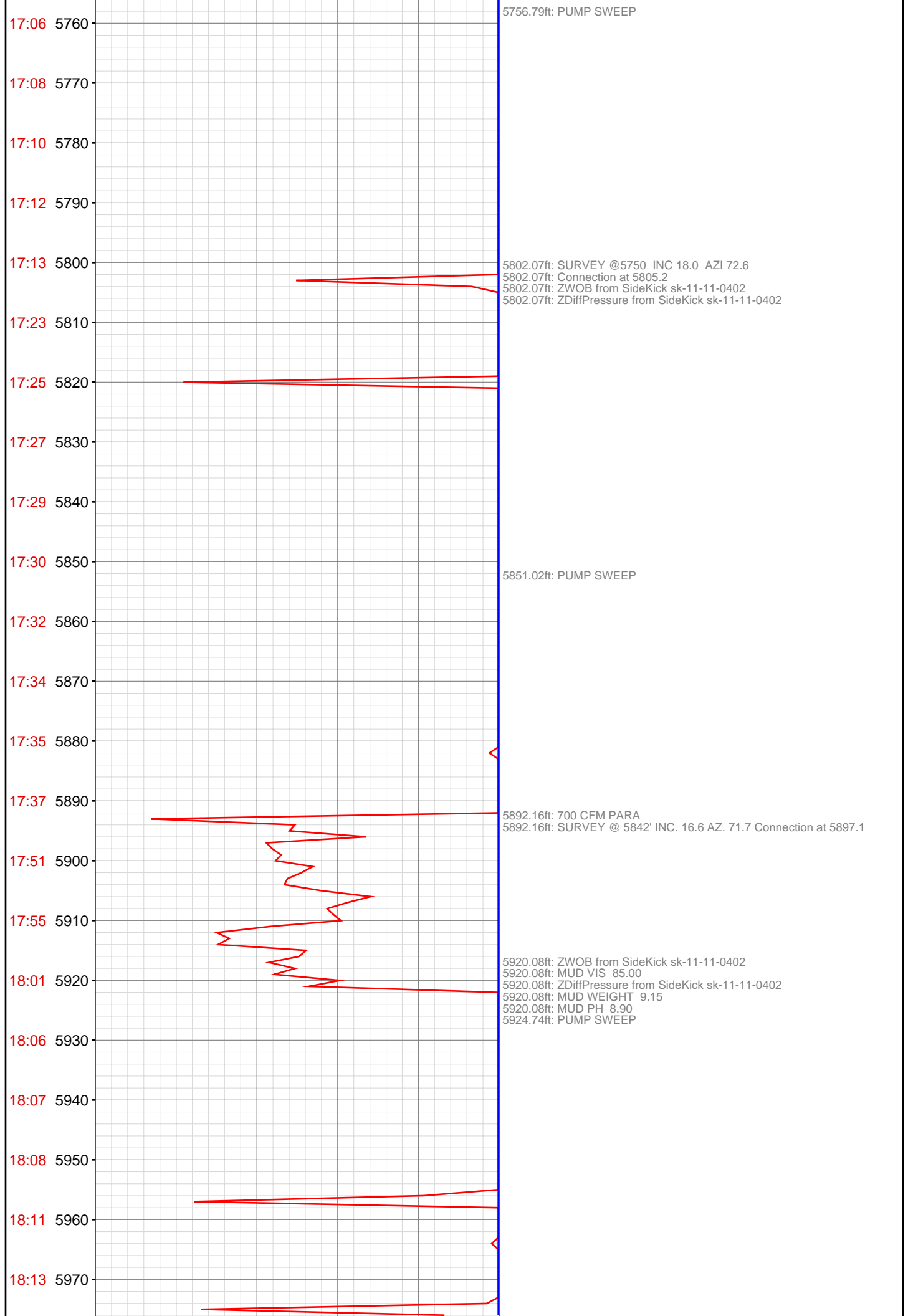


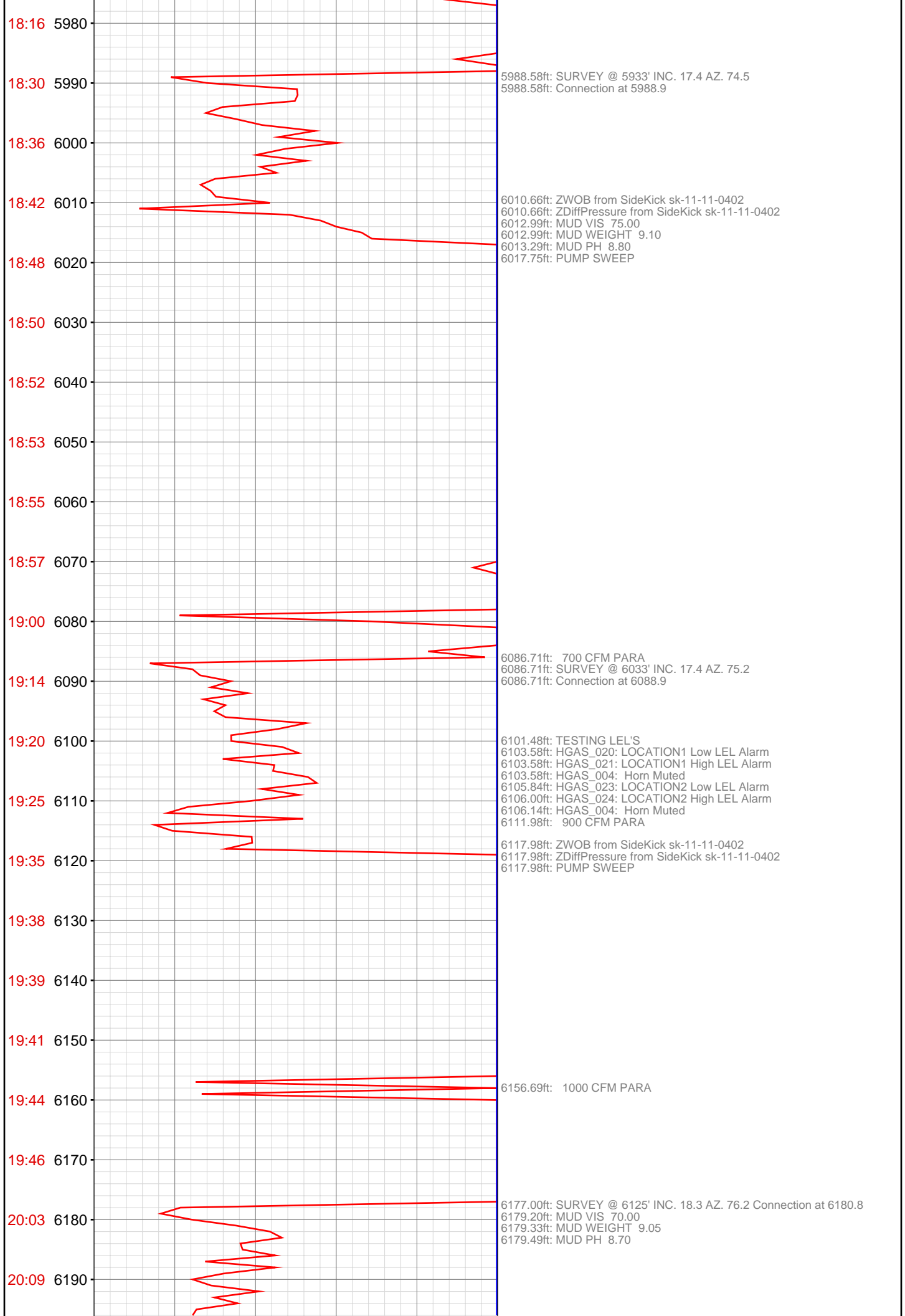












20:18 6200

6199.38ft: 1100 CFM PARA
6203.25ft: ZWOB from SideKick sk-11-11-0402
6203.25ft: ZDiffPressure from SideKick sk-11-11-0402
6203.25ft: PUMP SWEEP

20:27 6210

20:29 6220

20:32 6230

20:33 6240

20:35 6250

20:37 6260

20:49 6270

6267.22ft: Connection at 6272.8
6267.22ft: SURVEY @ 6217' INC. 19.2 AZ. 74.4

20:55 6280

6284.78ft: ZWOB from SideKick sk-11-11-0402
6284.78ft: ZDiffPressure from SideKick sk-11-11-0402

21:01 6290

6289.08ft: PUMP SWEEP

21:03 6300

21:04 6310

6310.99ft: BIT DEPTH CHANGED TO 6318.8 FEET

21:05 6320

21:08 6330

21:10 6340

6338.68ft: 1200 CFM PARA

21:12 6350

21:14 6360

6365.06ft: SURVEY @ 6309' INC. 18.9 AZ. 73.4 Connection at 6364.6
6368.18ft: MUD VIS 68.00
6368.18ft: MUD WEIGHT 9.15
6368.57ft: MUD PH 8.70

21:27 6370

21:34 6380

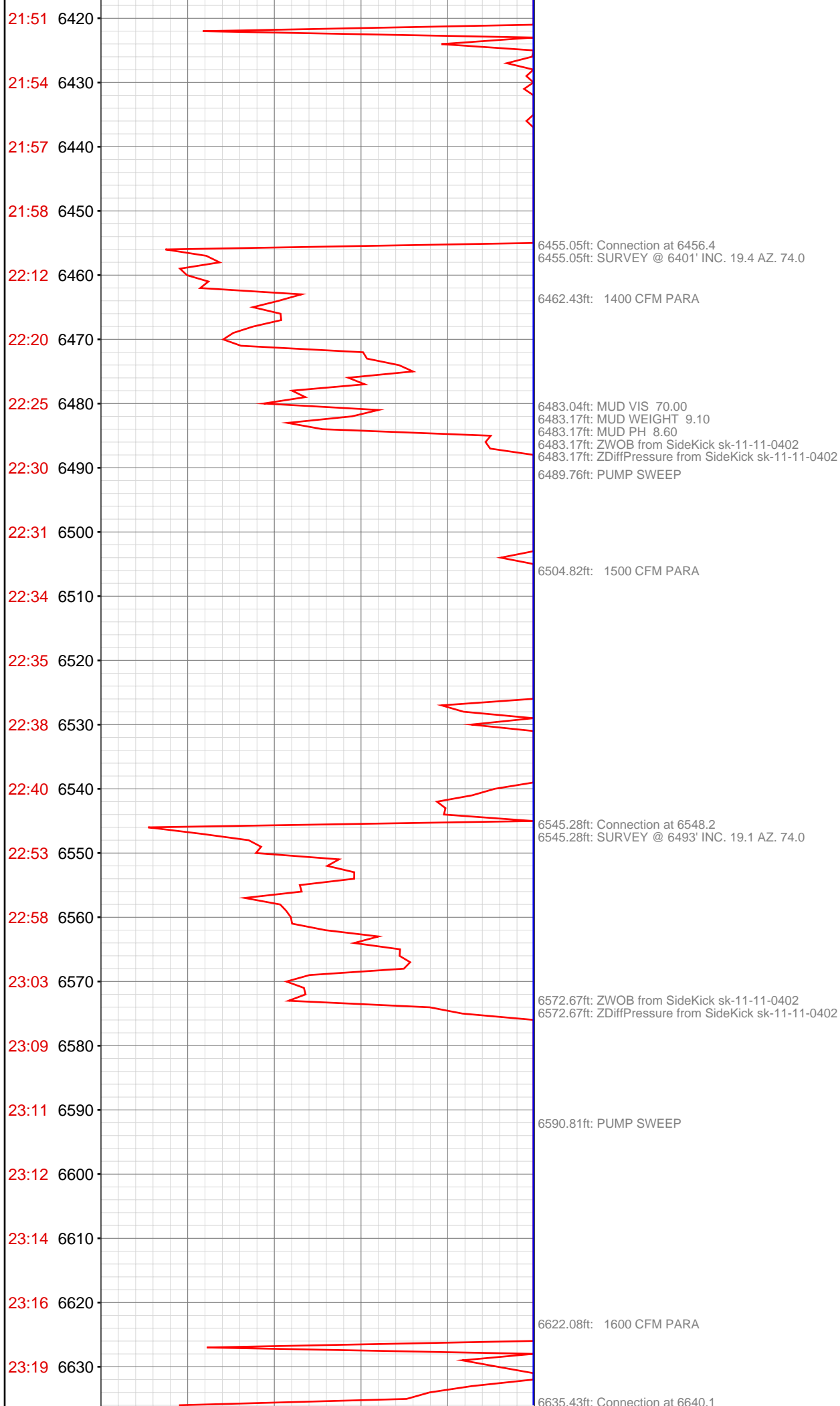
6380.68ft: 1300 CFM PARA

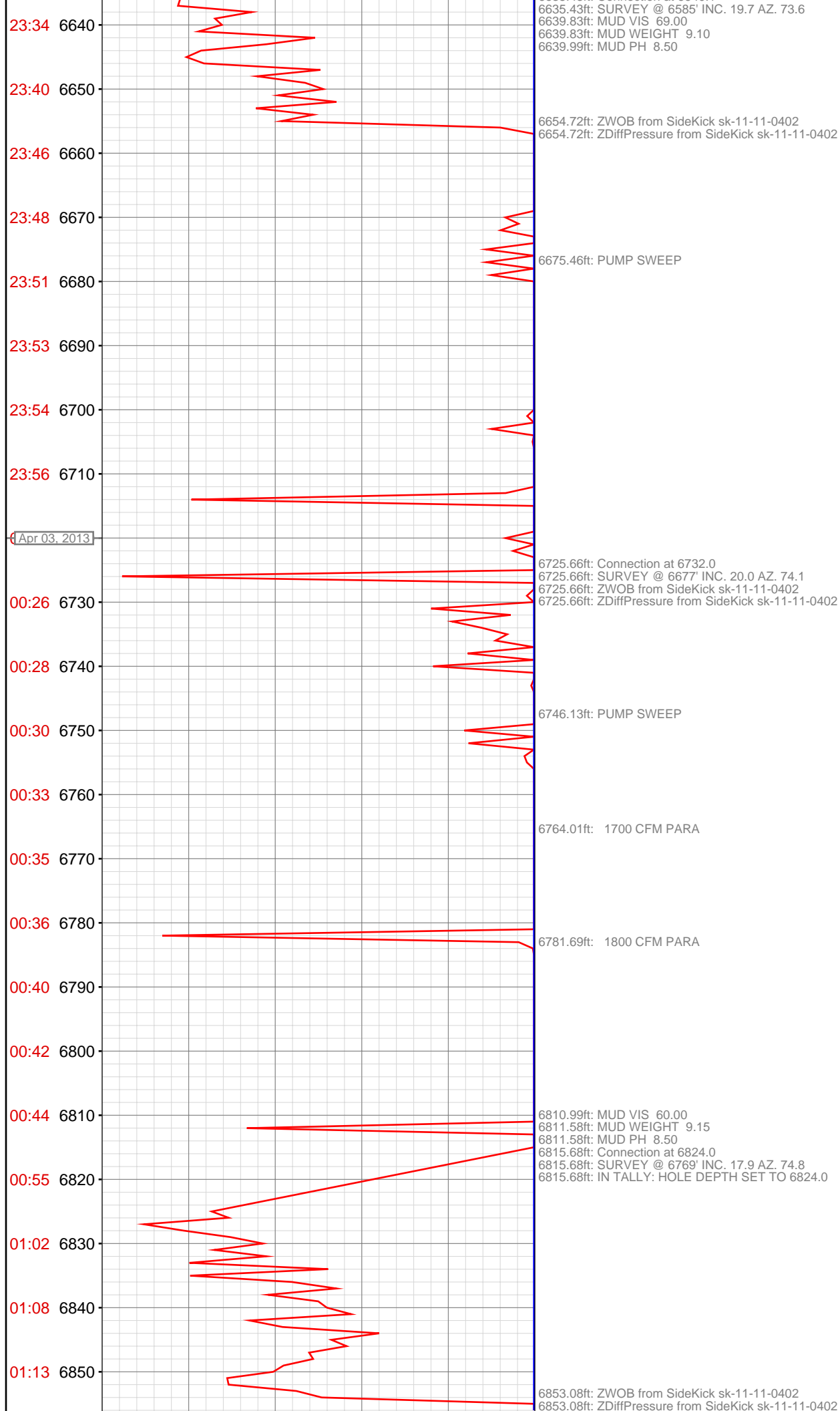
21:41 6390

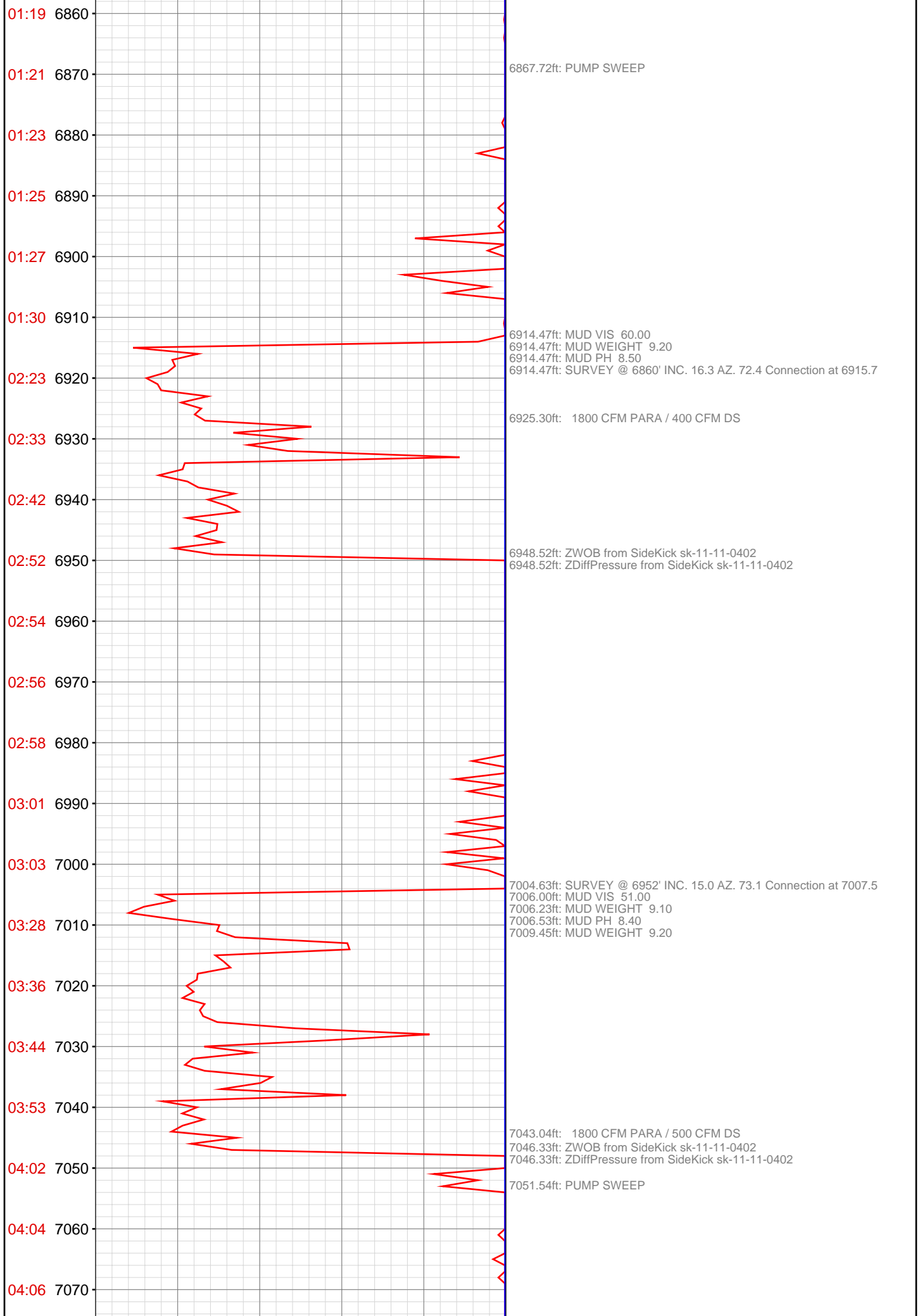
6391.99ft: ZWOB from SideKick sk-11-11-0402
6391.99ft: ZDiffPressure from SideKick sk-11-11-0402
6394.72ft: PUMP SWEEP

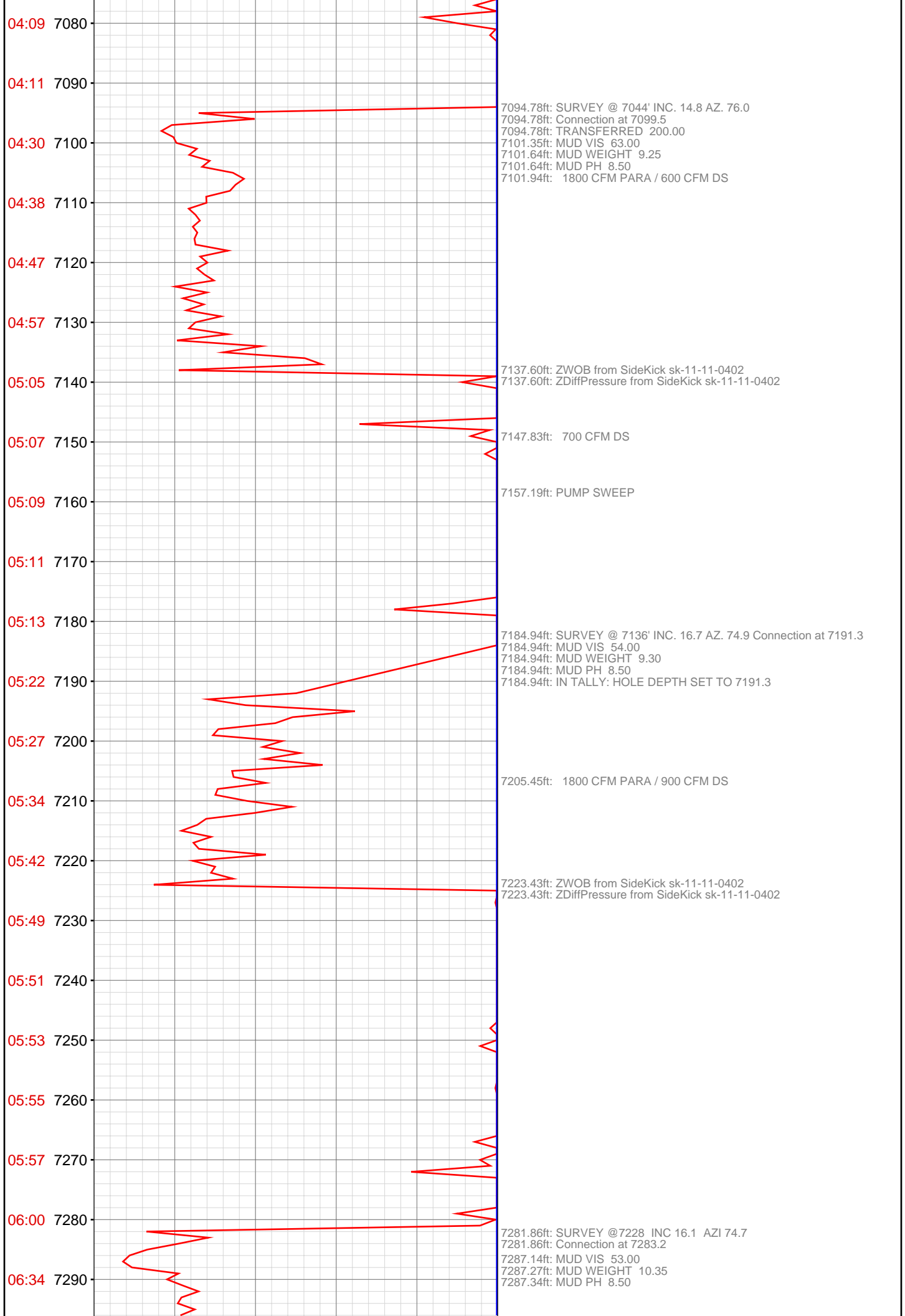
21:46 6400

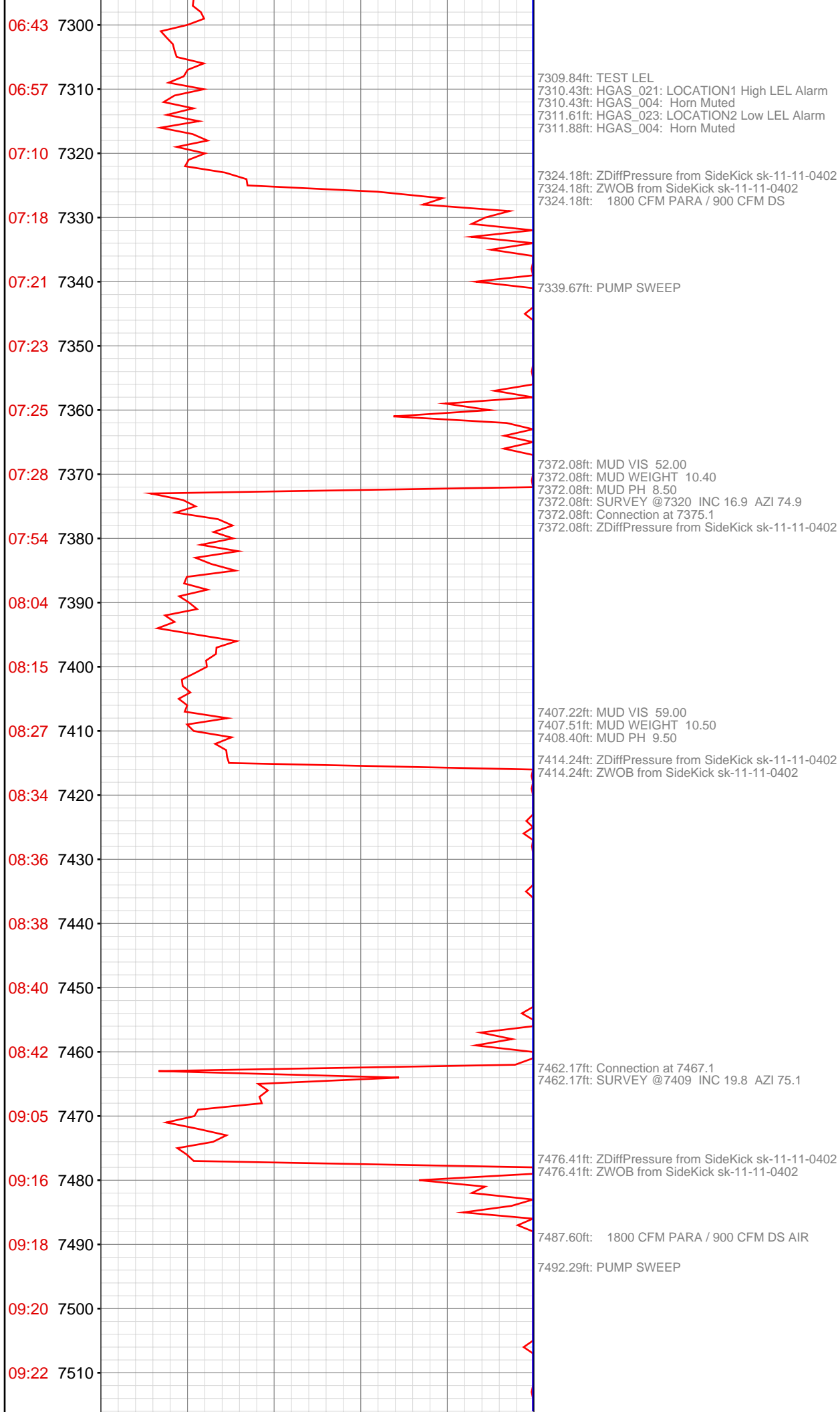
21:49 6410

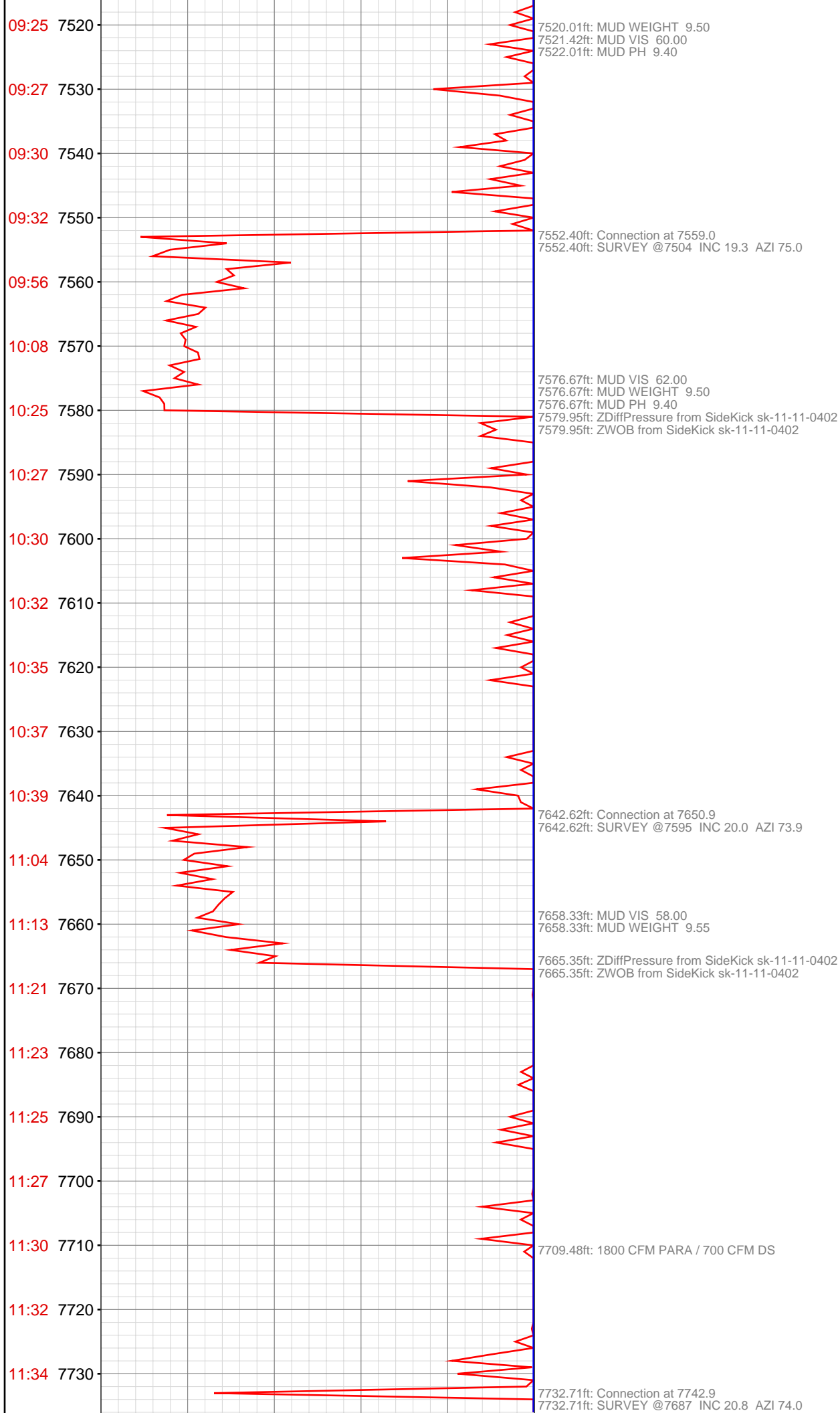


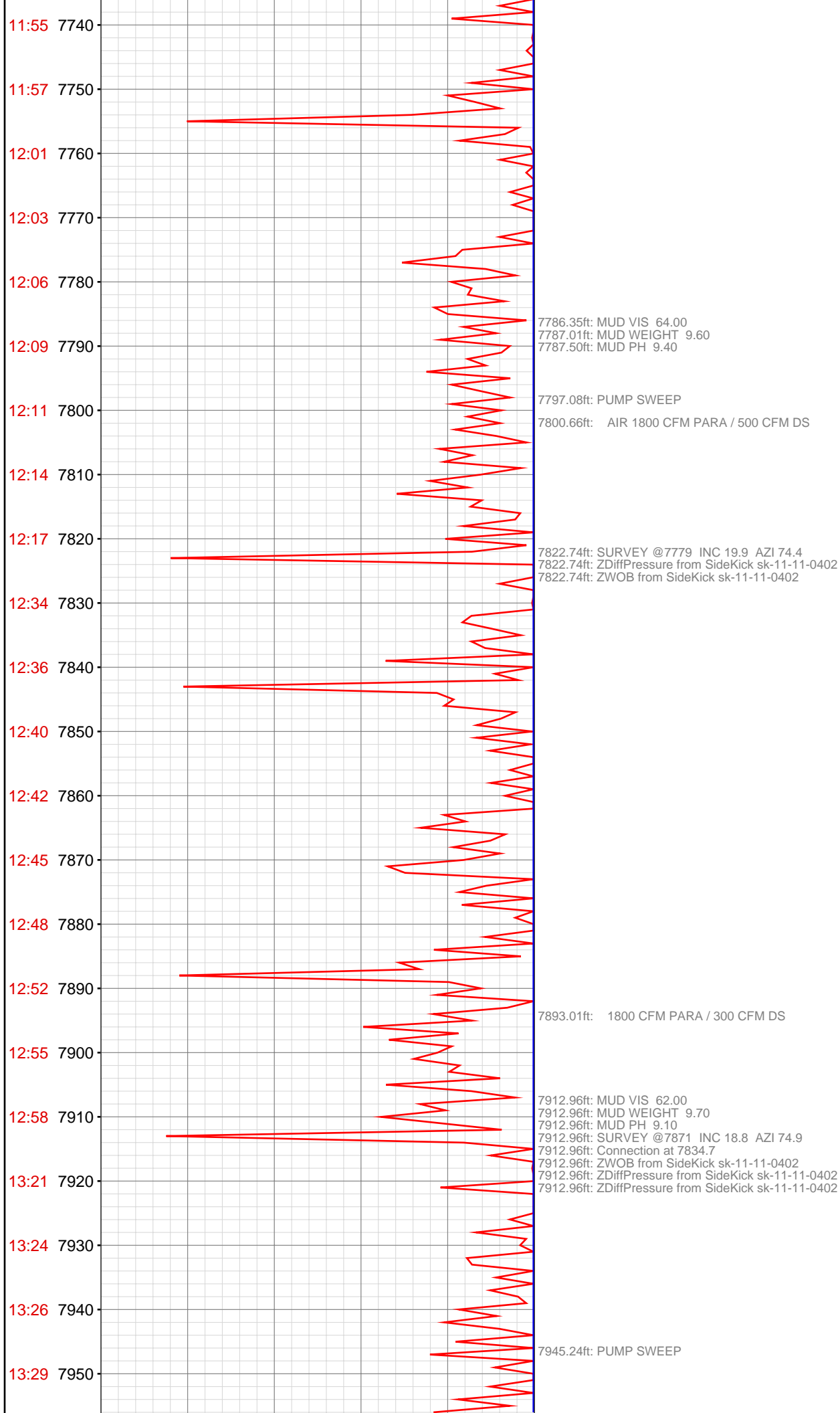


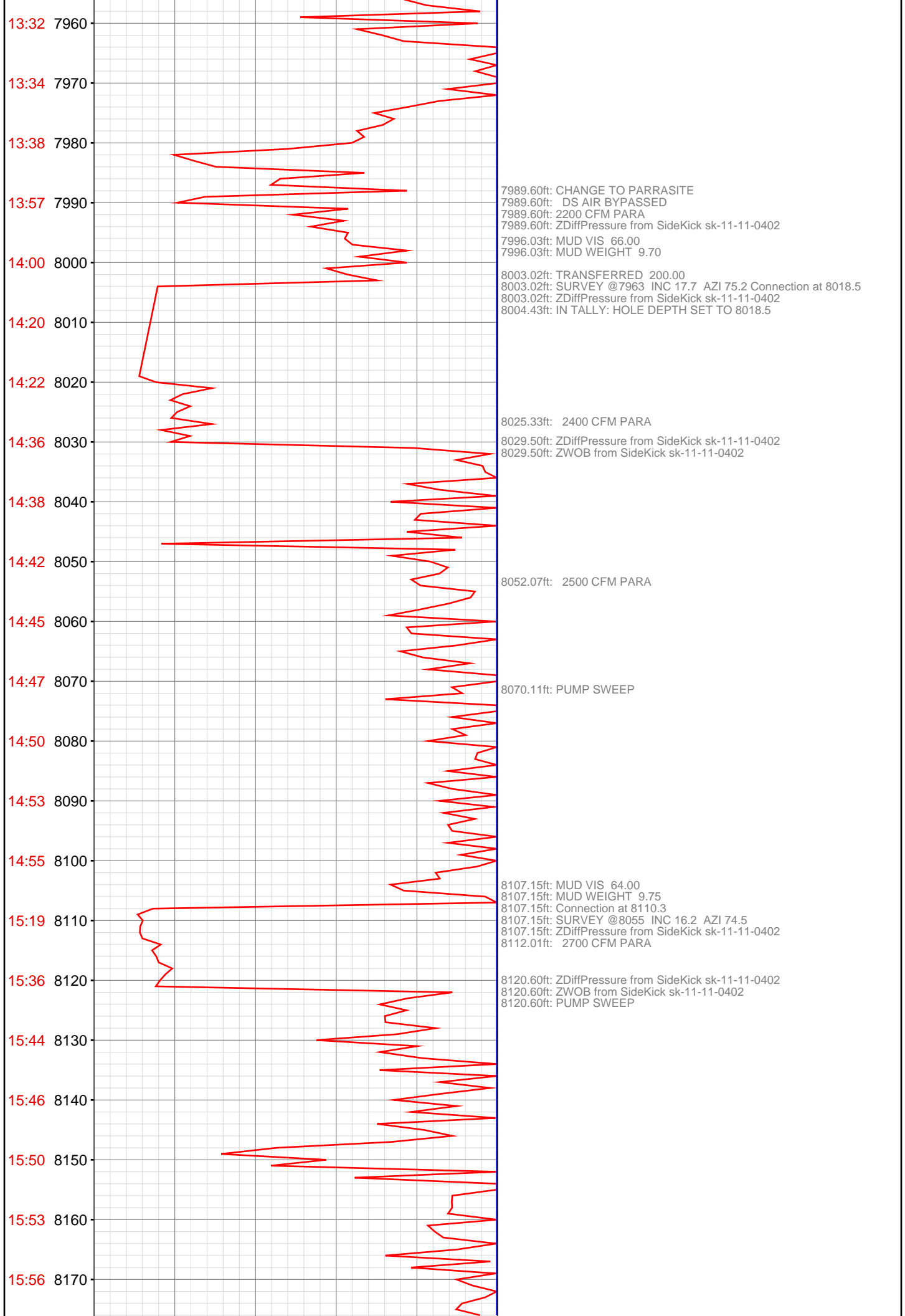


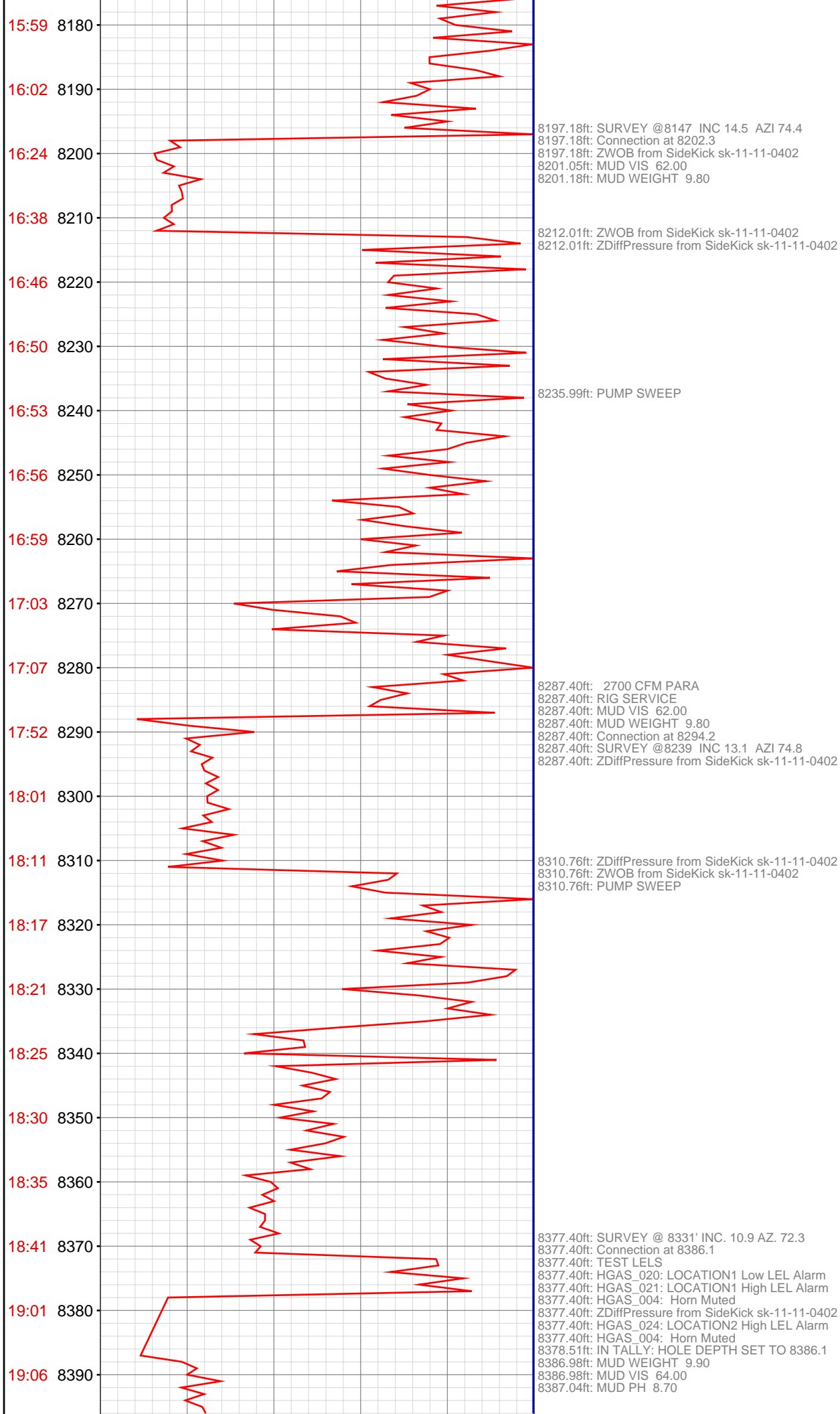


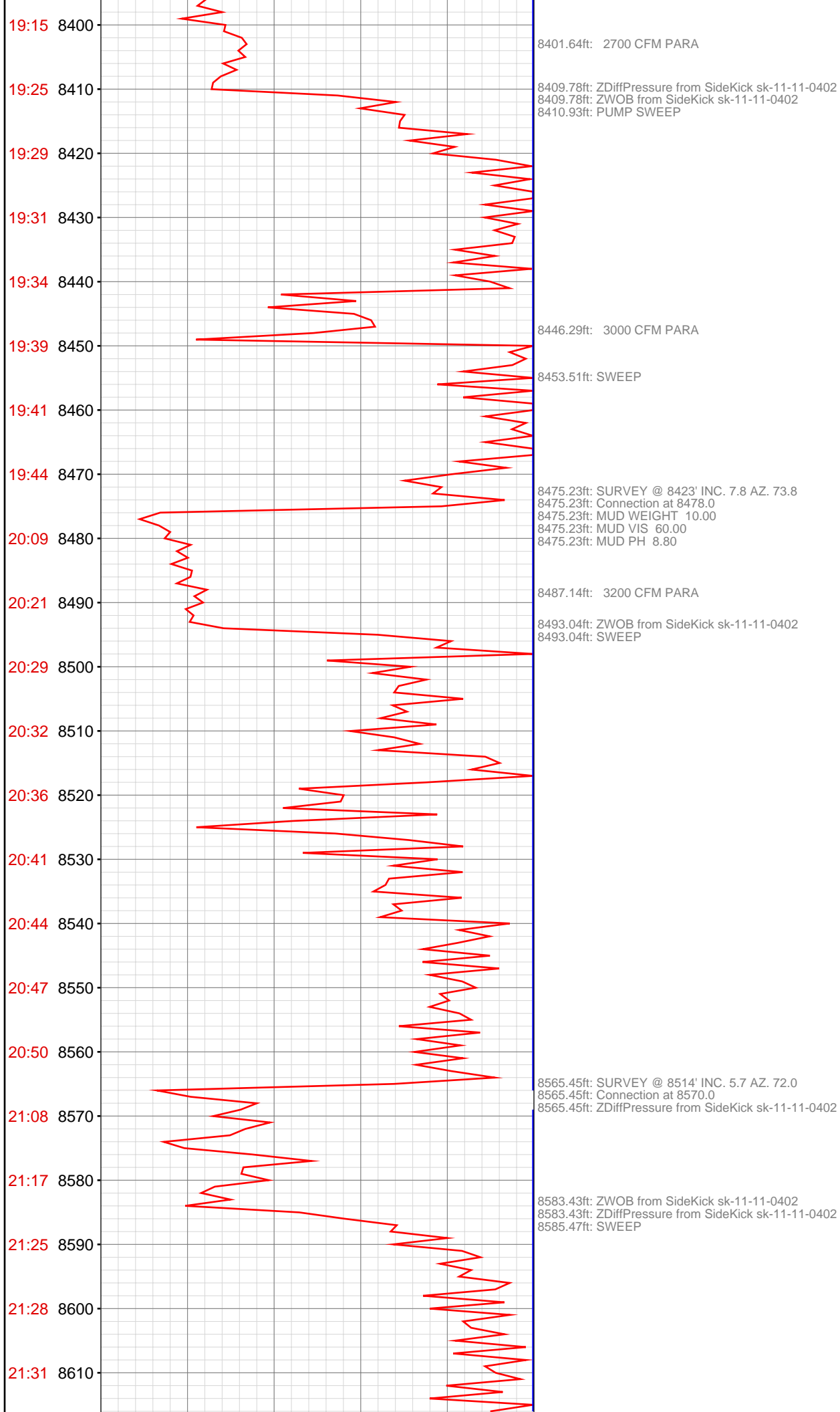


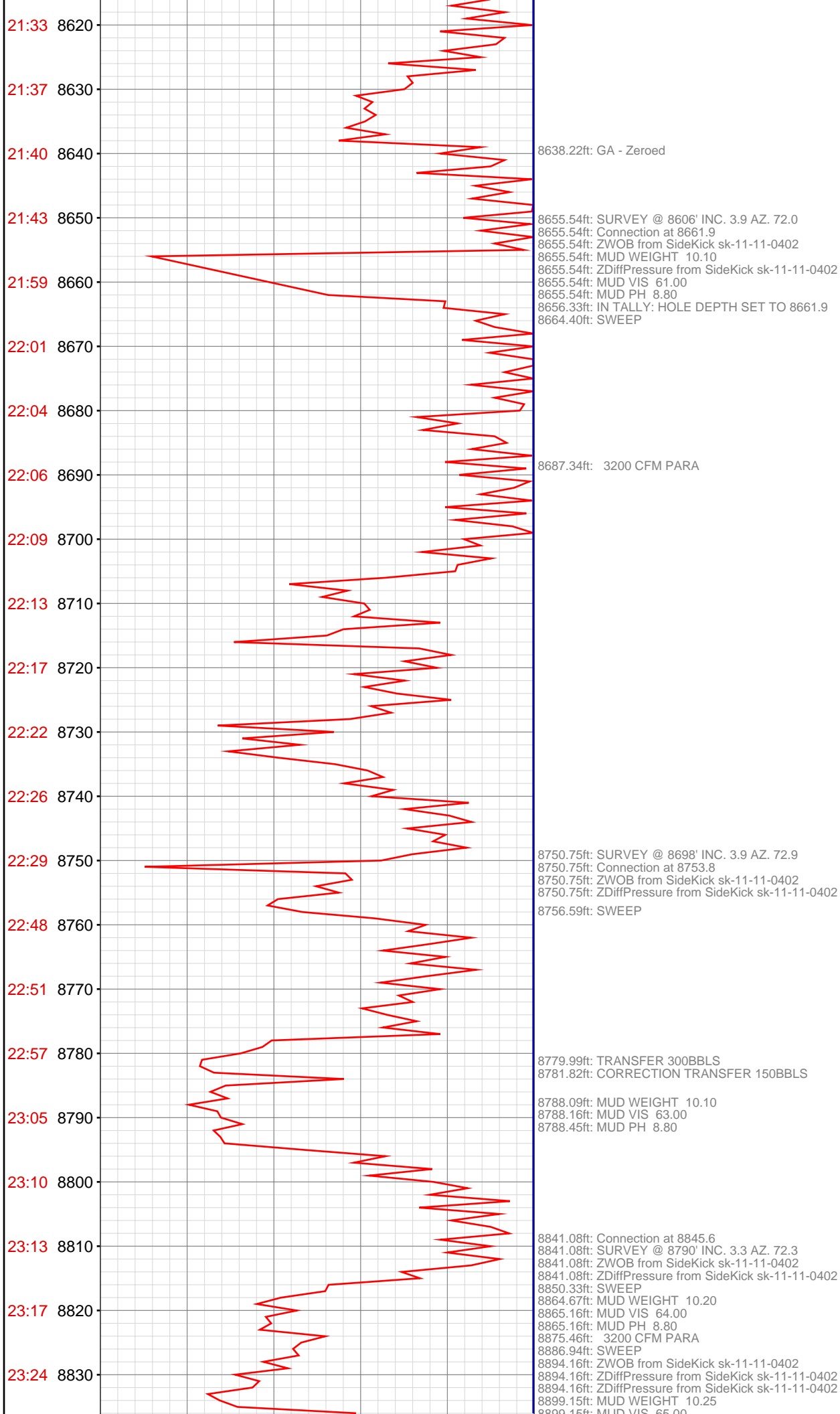


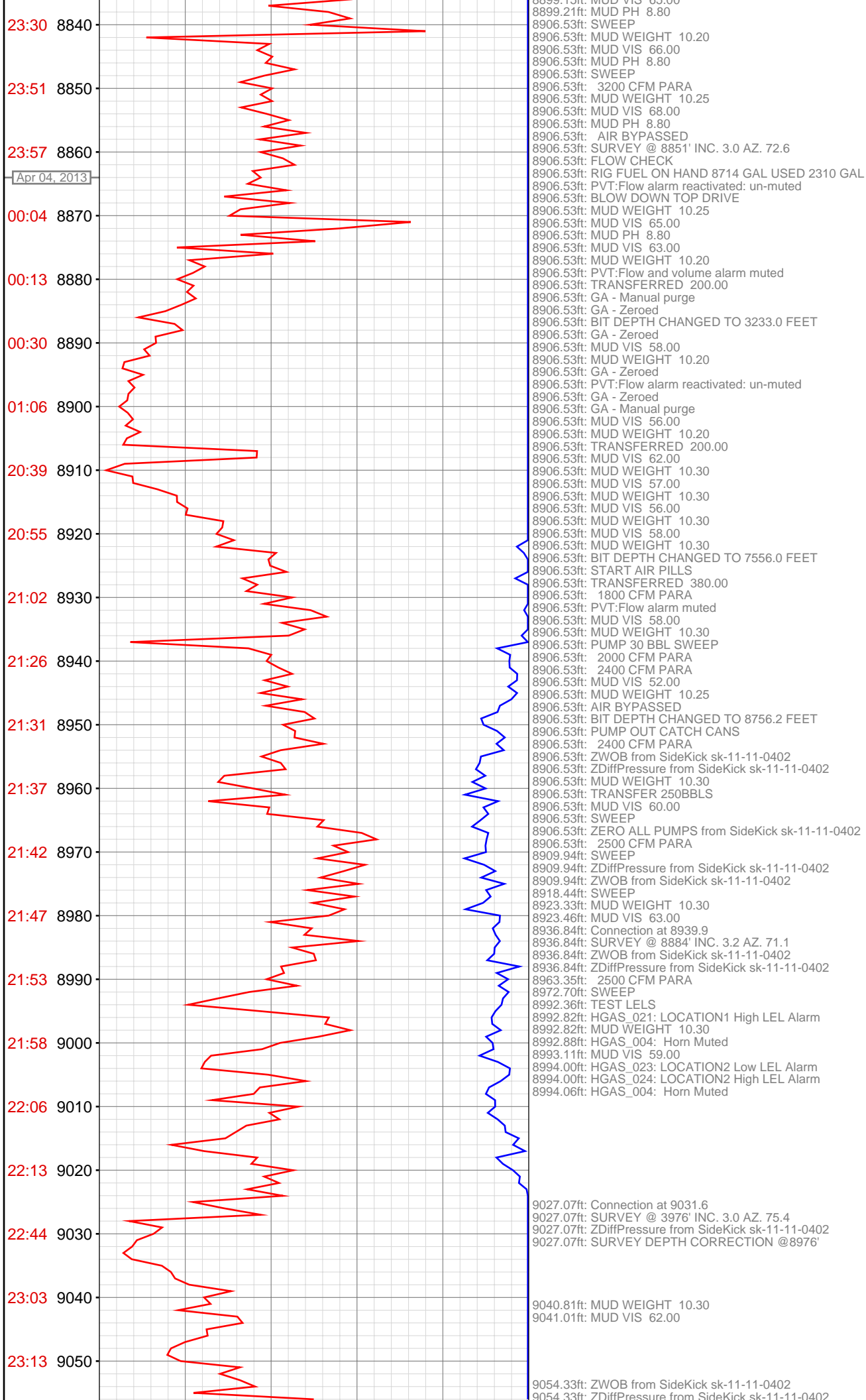












9054.33ft: SWEEP

9111.61ft: 2500 CFM PARA
9117.09ft: MUD WEIGHT 10.35
9117.09ft: MUD VIS 67.00
9117.09ft: Connection at 9123.5
9117.09ft: ZWOB from SideKick sk-11-11-0402
9117.09ft: ZDiffPressure from SideKick sk-11-11-0402
9117.09ft: SURVEY @ 9068' INC. 1.1 AZ. 105.7

9138.06ft: SWEEP

9187.07ft: MUD WEIGHT 10.35
9187.66ft: MUD VIS 70.00

9207.09ft: HOOKLOAD WAS RECALIBRATED
9207.09ft: Connection at 9215.4 SURVEY @ 9160' INC. 0.7 AZ. 118.0
9207.09ft: ZWOB from SideKick sk-11-11-0402
9207.09ft: ZDiffPressure from SideKick sk-11-11-0402
9208.04ft: IN TALLY: HOLE DEPTH SET TO 9215.4

9224.61ft: 2500 CFM PARA

9235.93ft: SWEEP
9239.30ft: MUD WEIGHT 10.35
9239.73ft: MUD VIS 68.00

23:23 9060

23:27 9070

23:31 9080

23:35 9090

23:39 9100

23:43 9110

00:08 9120

00:15 9130

00:21 9140

00:28 9150

00:35 9160

00:42 9170

00:50 9180

00:59 9190

01:10 9200

01:37 9210

01:42 9220

01:52 9230

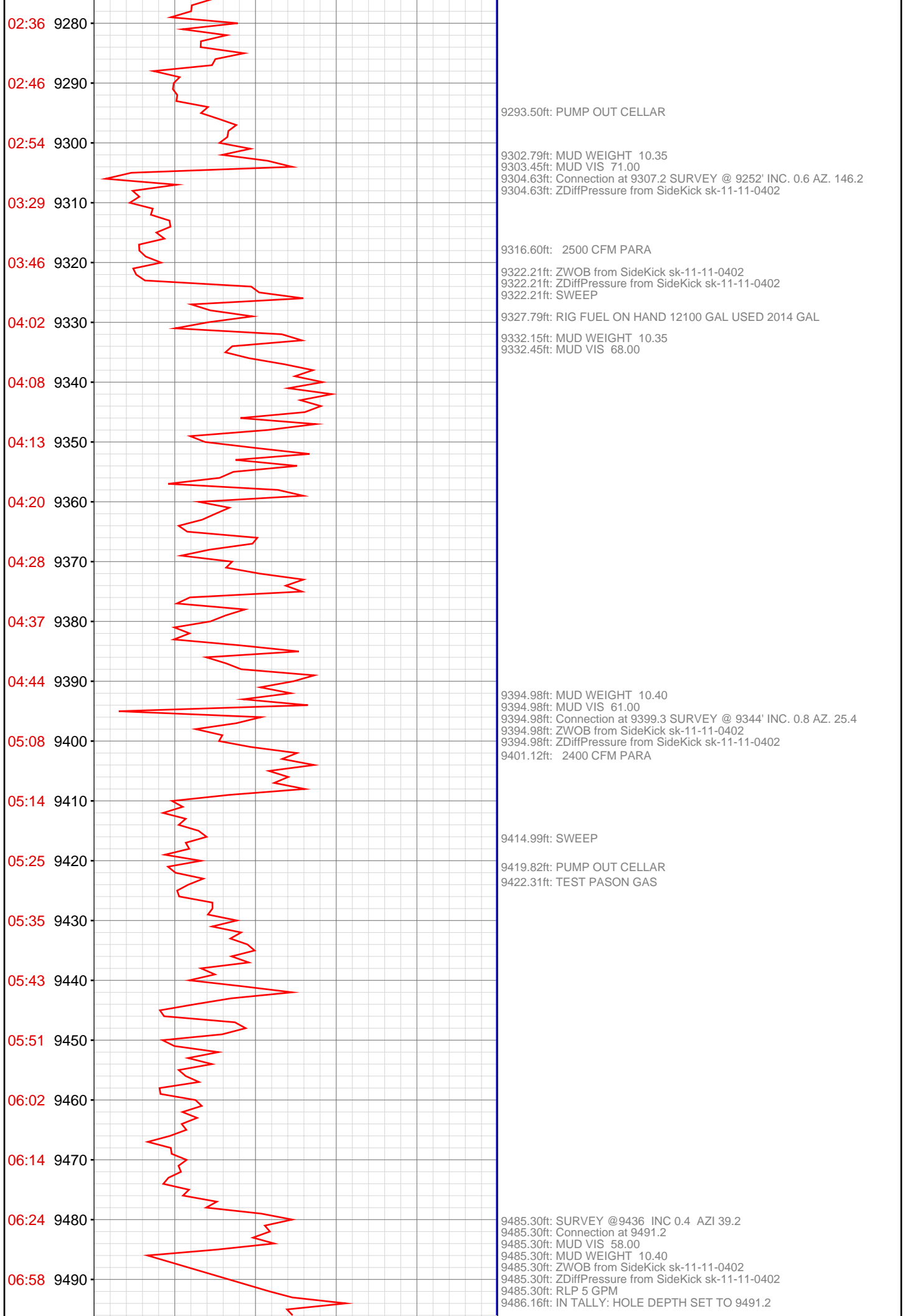
02:00 9240

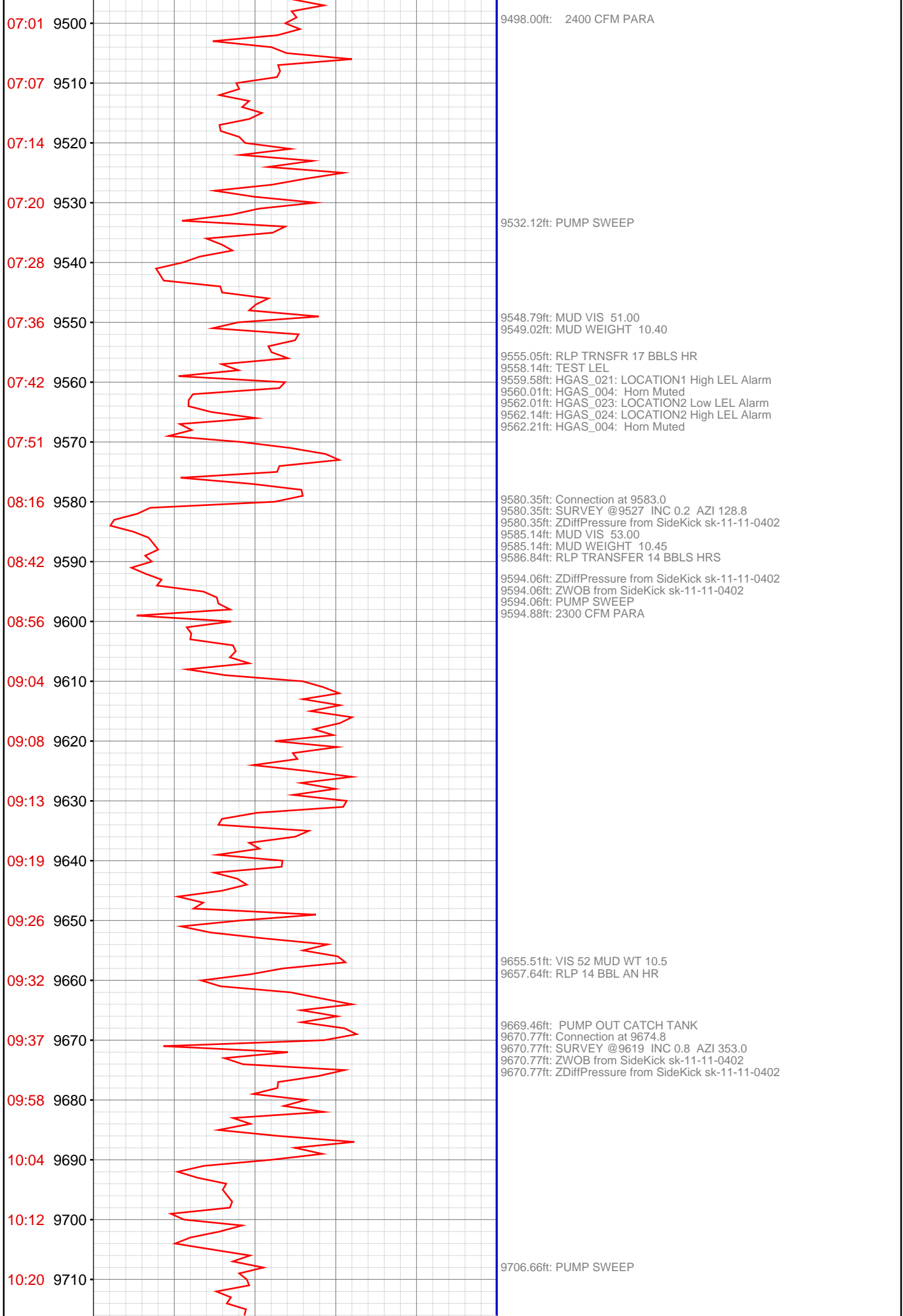
02:09 9250

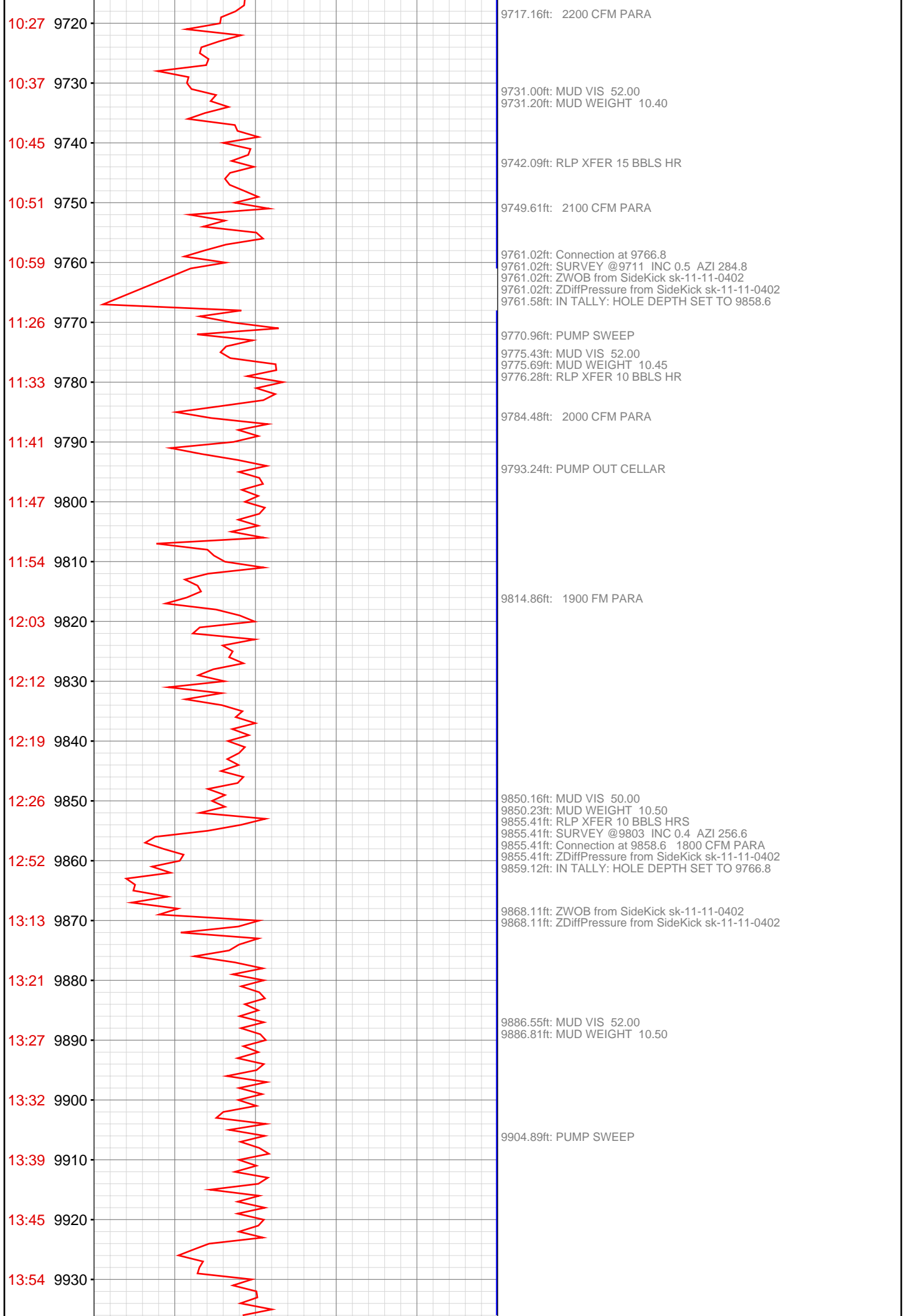
02:18 9260

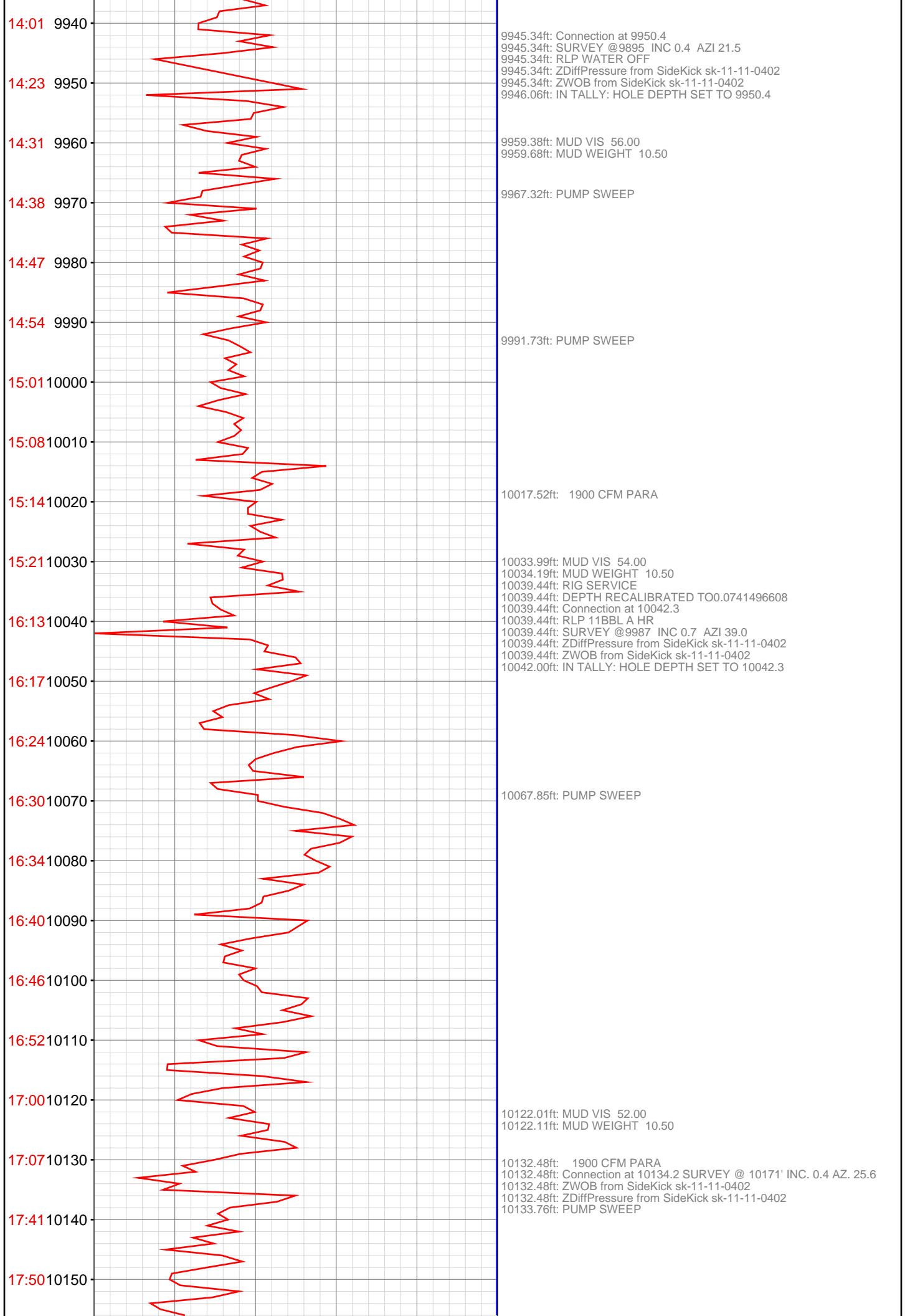
02:26 9270

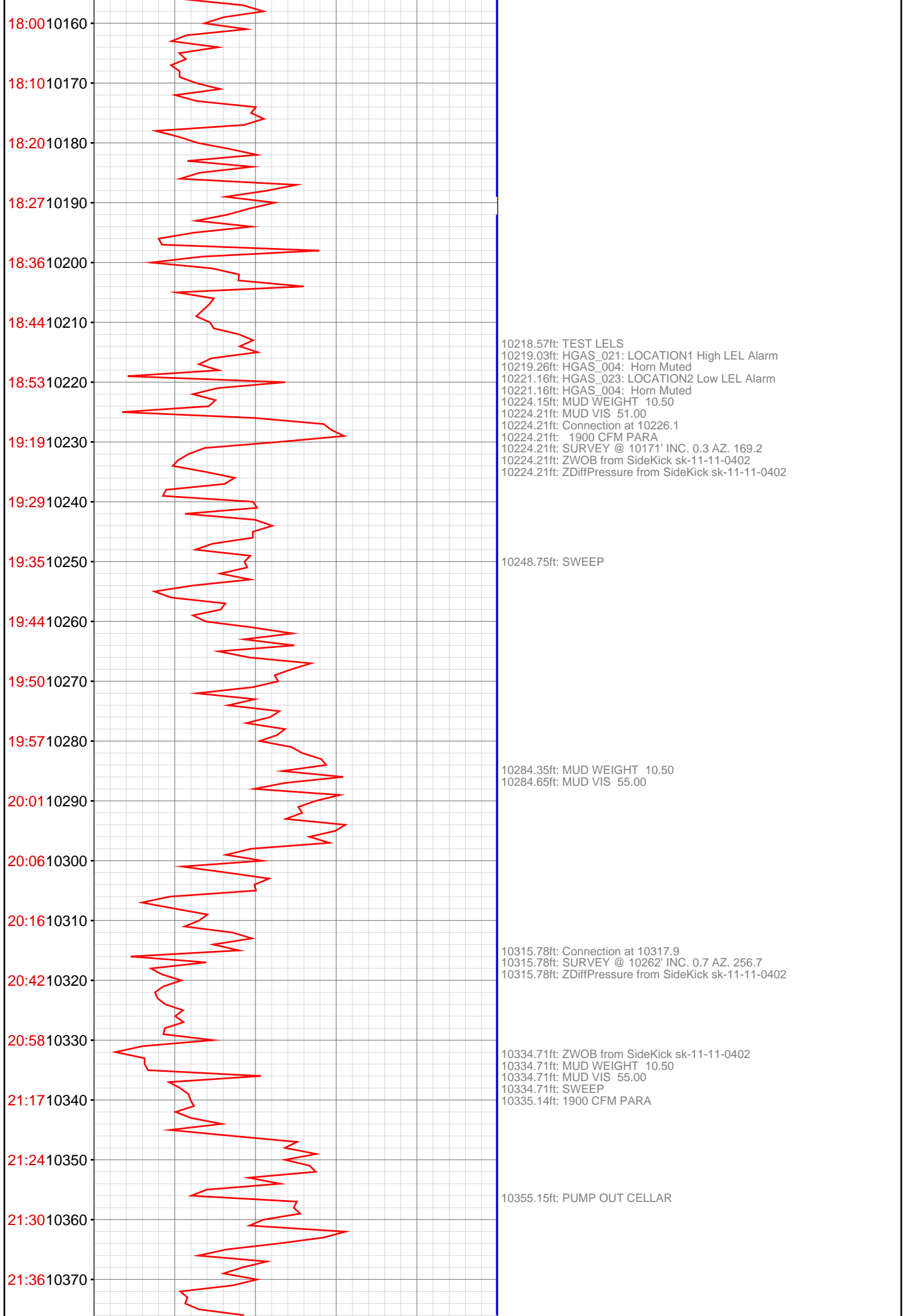
Apr 05, 2013

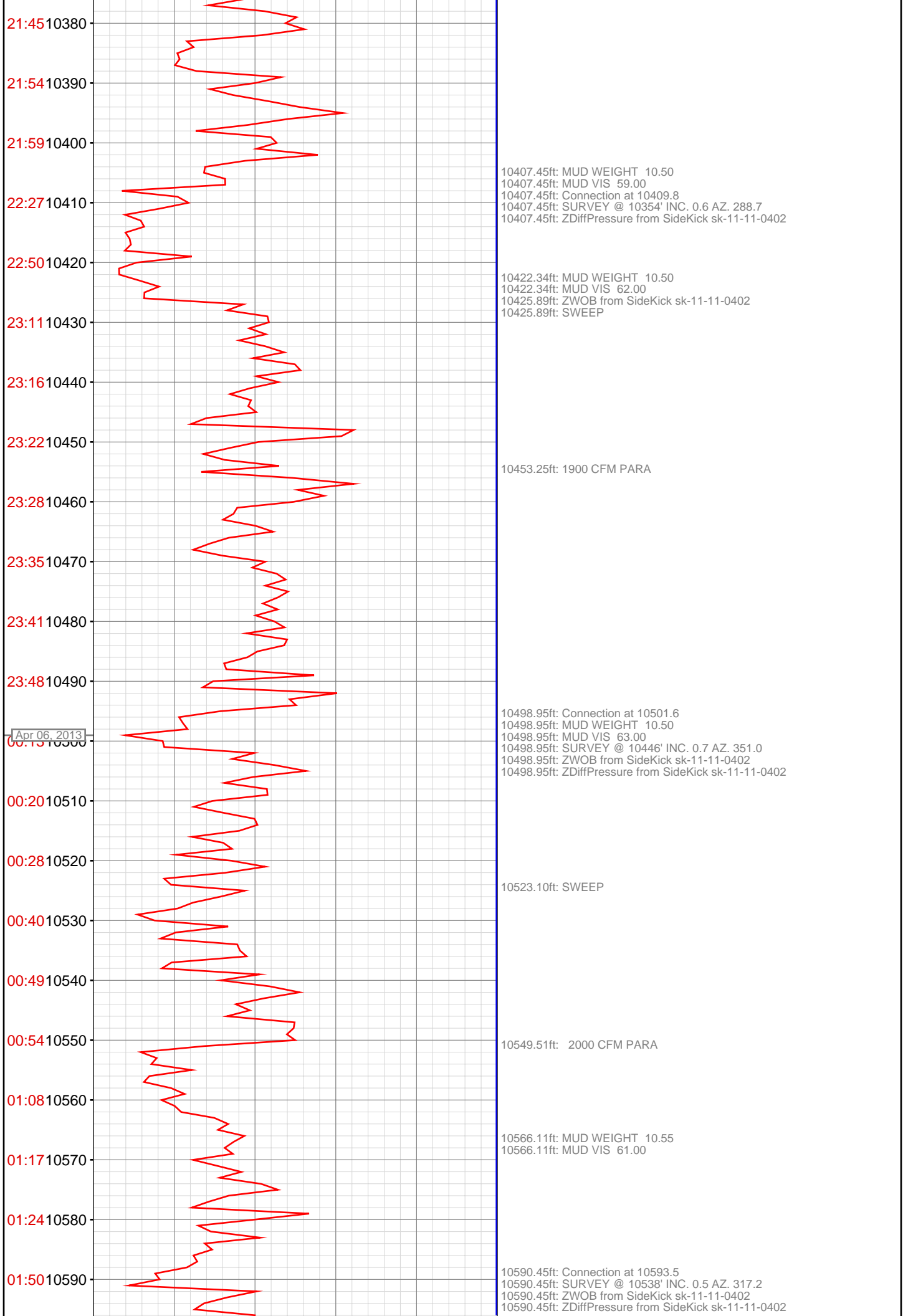


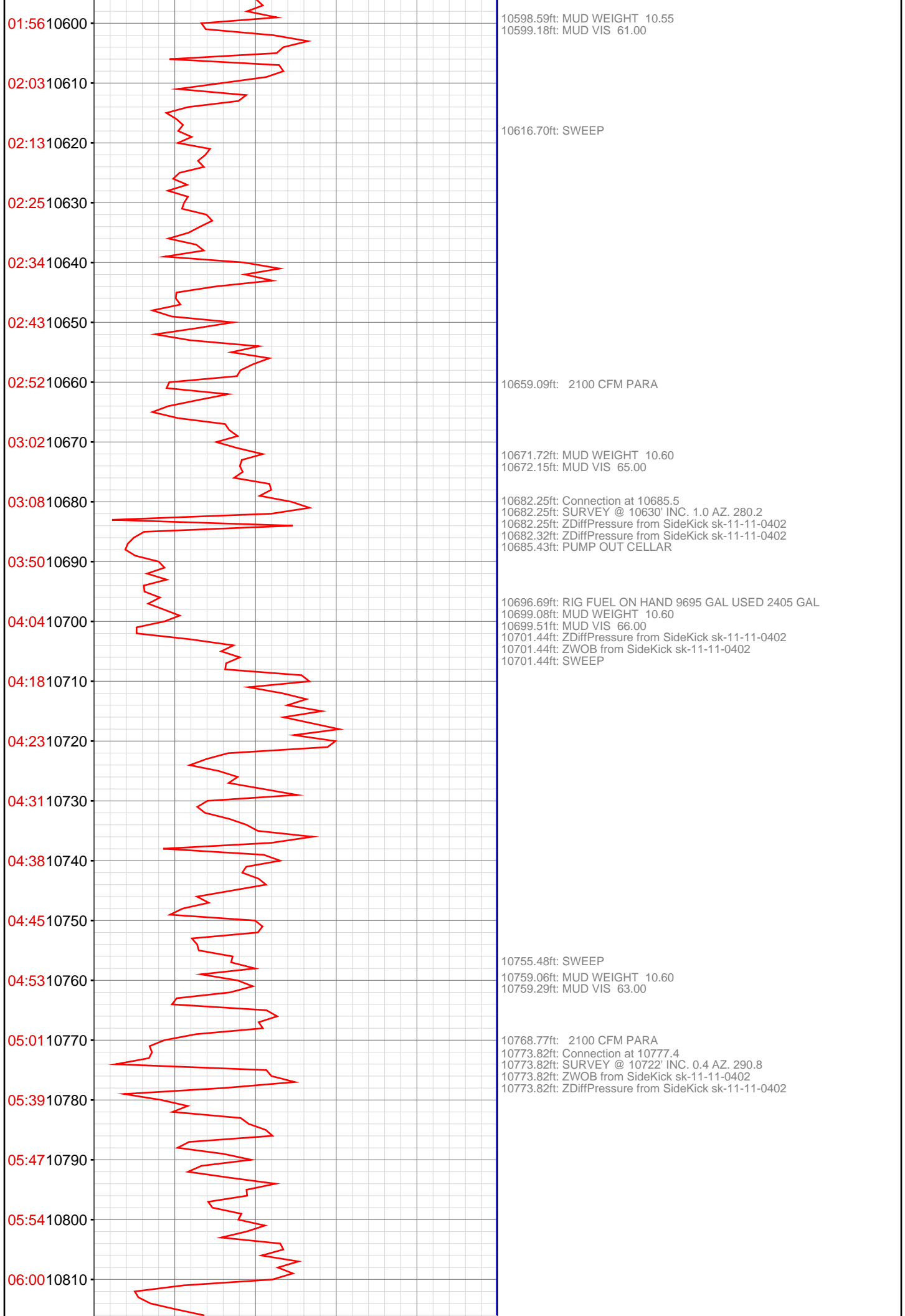


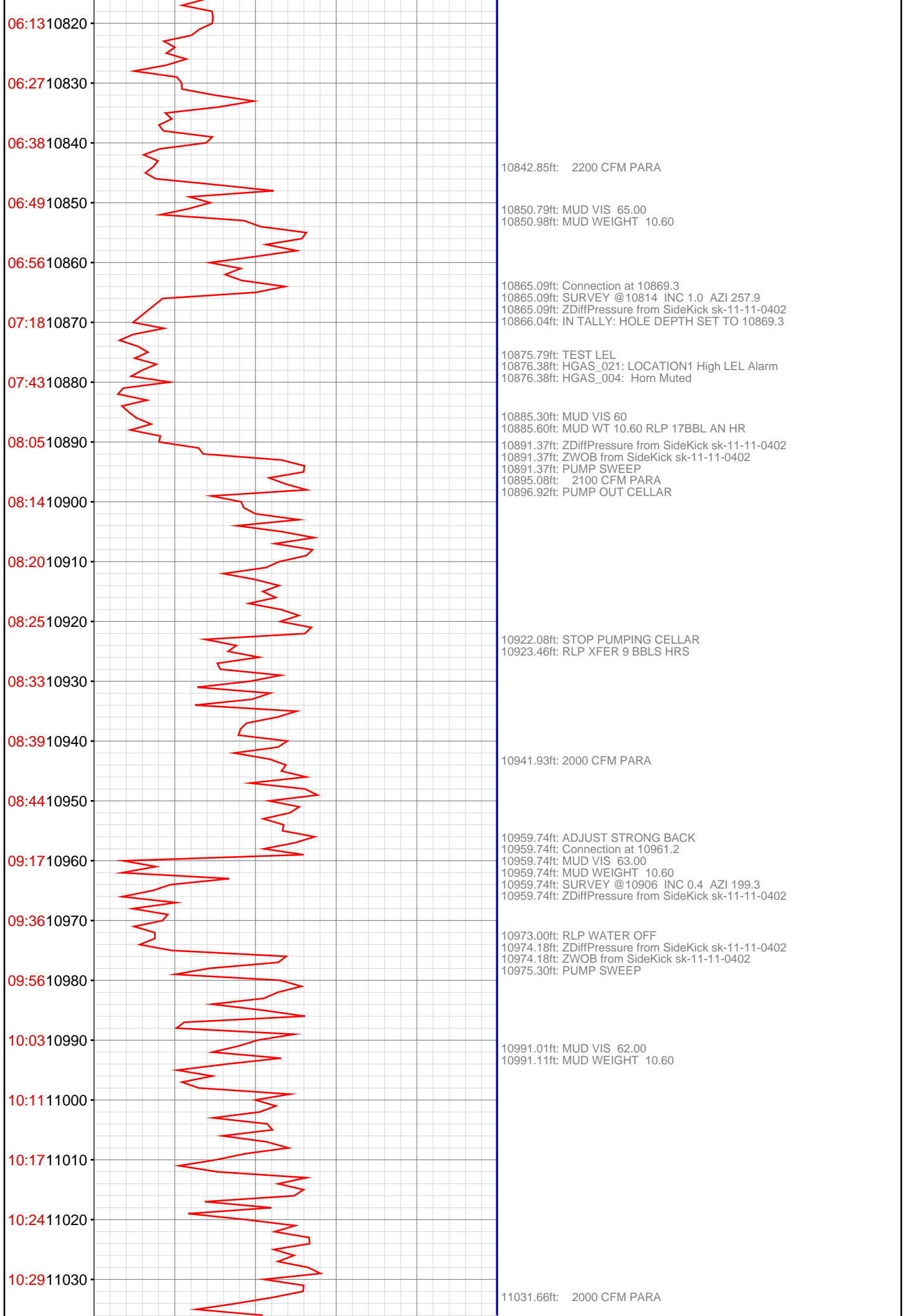


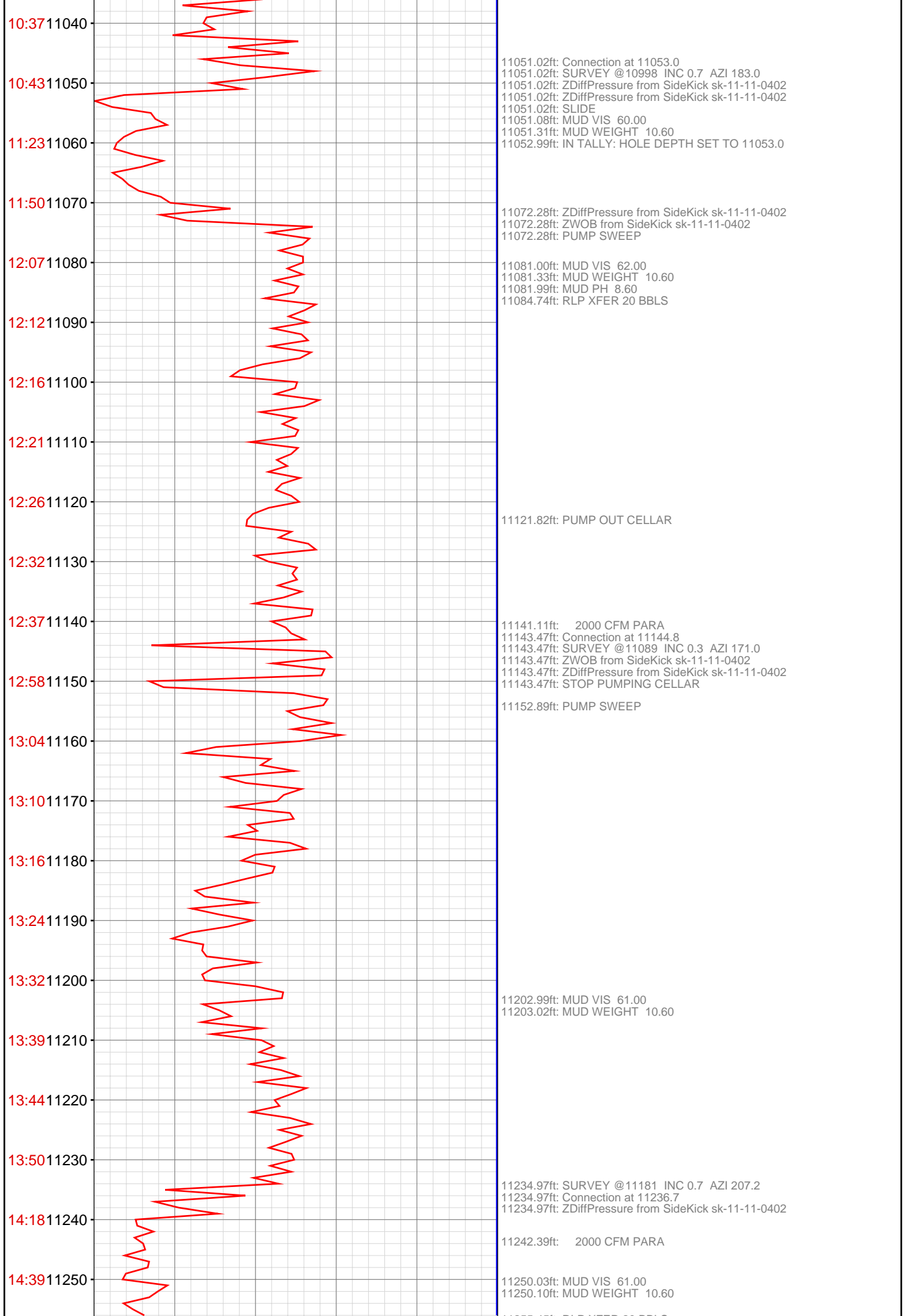


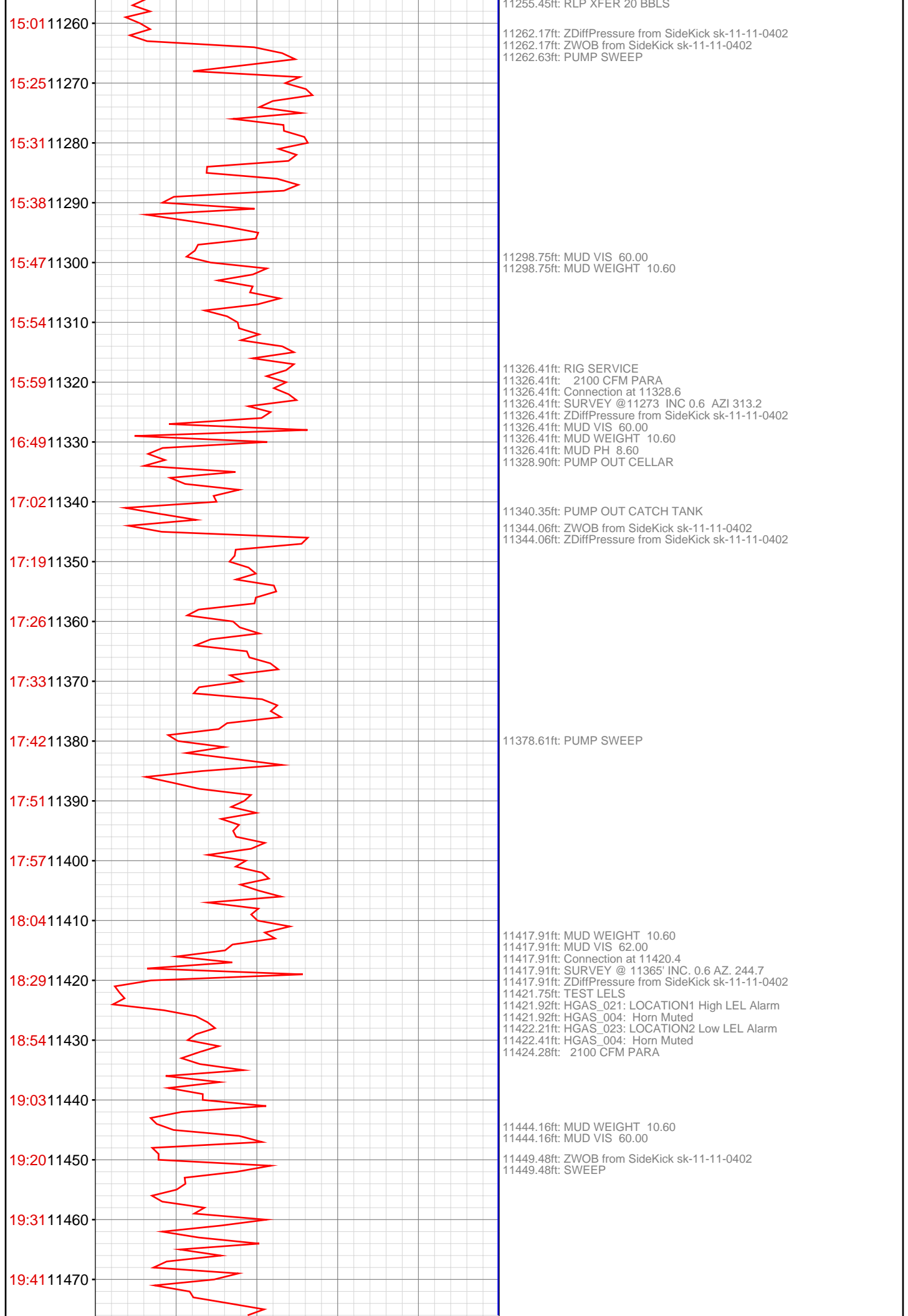


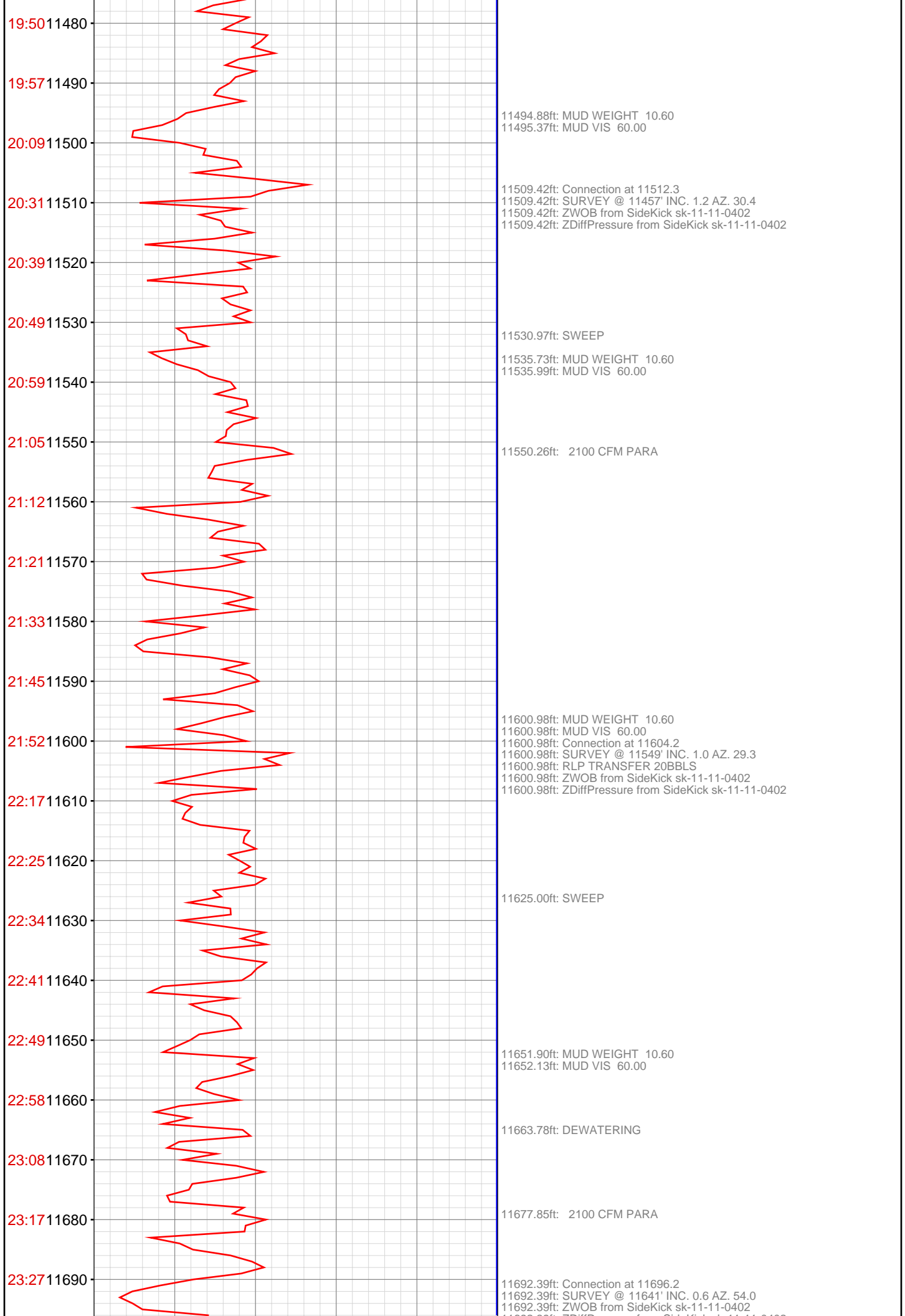












Apr 07, 2013

00:07 11700

11692.39ft: ZDiffPressure from SideKick sk-11-11-0402

11700.49ft: MUD WEIGHT 10.60
11700.49ft: MUD VIS 60.00

00:11 11710

11706.63ft: RLP TRANSFER 20BBLs

00:20 11720

11715.98ft: PUMP OUT CELLAR
11717.45ft: SWEEP

00:31 11730

00:40 11740

00:48 11750

01:00 11760

01:14 11770

11769.36ft: MUD WEIGHT 10.60
11769.82ft: MUD VIS 60.00

01:25 11780

11782.94ft: 2100 CFM PARA
11783.83ft: Connection at 11788.0
11783.83ft: SURVEY @ 11733' INC. 0.2 AZ. 86.3
11783.83ft: ZWOB from SideKick sk-11-11-0402
11783.83ft: ZDiffPressure from SideKick sk-11-11-0402

01:52 11790

02:02 11800

11798.82ft: RLP TRANSFER 20BBLs
11801.18ft: MUD WEIGHT 10.60
11801.48ft: MUD VIS 63.00

02:11 11810

11812.43ft: SWEEP

02:22 11820

02:38 11830

02:51 11840

02:59 11850

03:09 11860

11859.91ft: MUD WEIGHT 10.60
11859.91ft: MUD VIS 62.00

03:18 11870

11869.09ft: 2100 CFM PARA
11875.33ft: Connection at 11879.8
11875.33ft: SURVEY @ 11824' INC. 0.3 AZ. 241.1
11875.33ft: ZWOB from SideKick sk-11-11-0402
11875.33ft: ZDiffPressure from SideKick sk-11-11-0402

03:47 11880

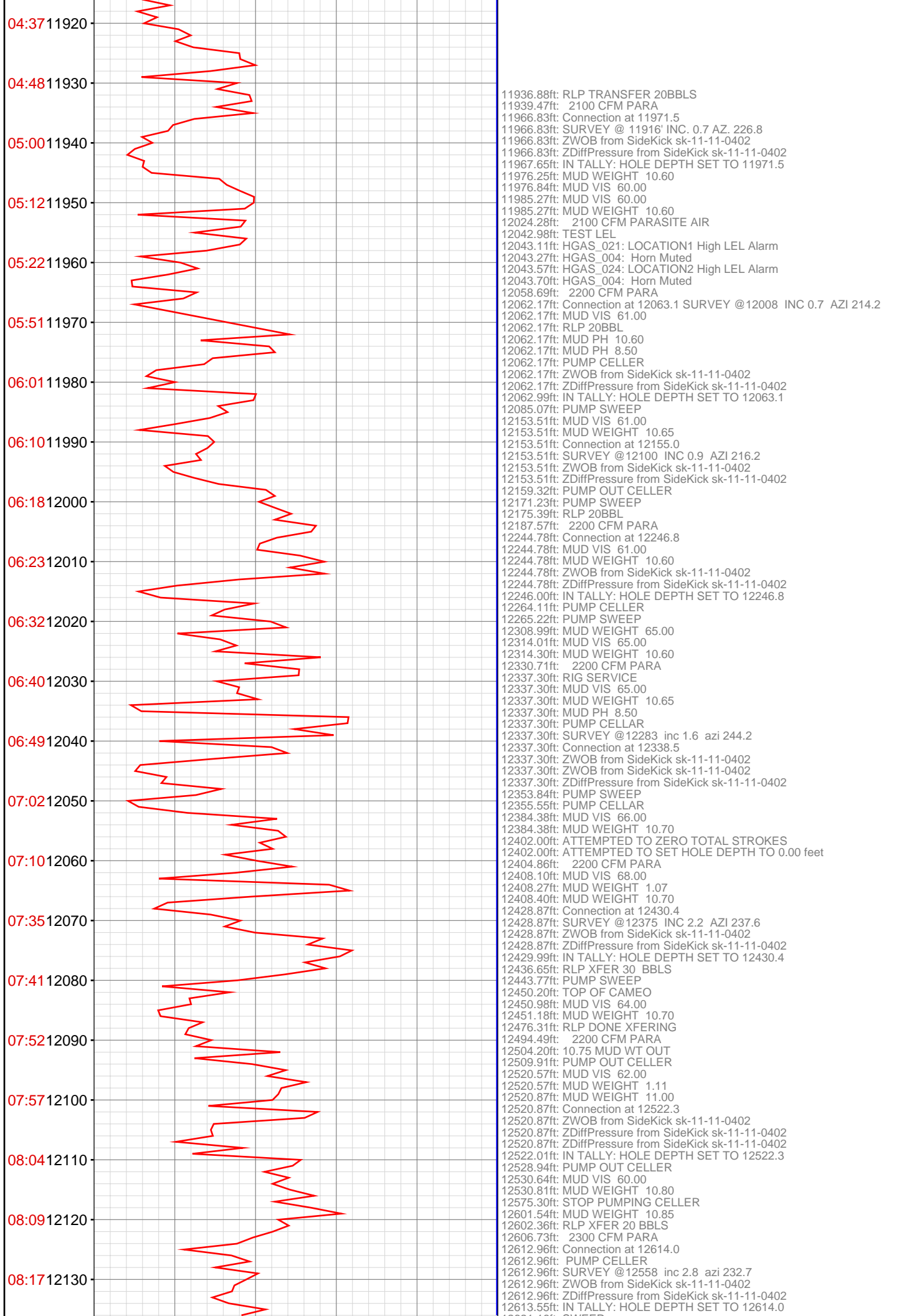
04:01 11890

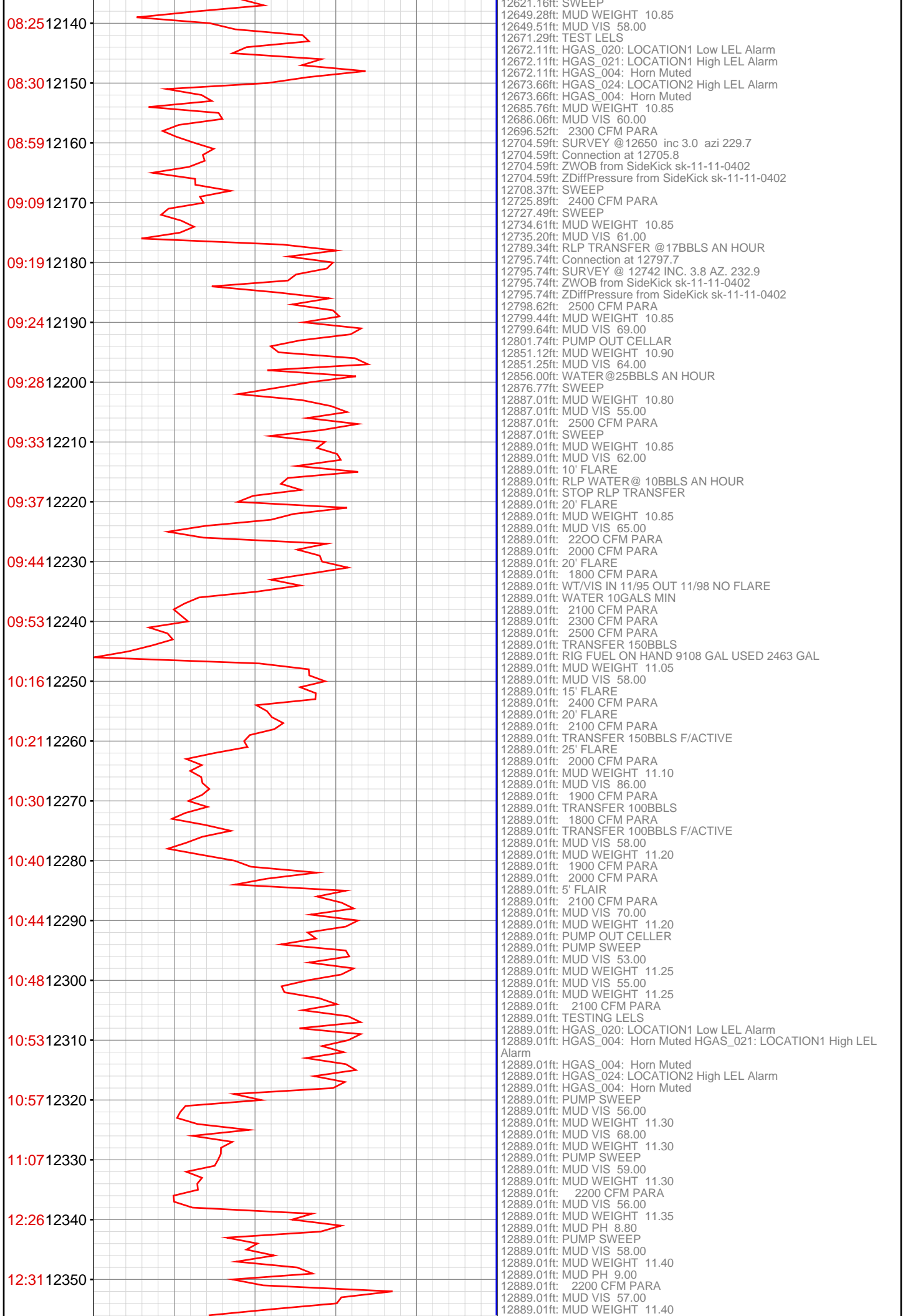
11887.34ft: MUD WEIGHT 10.60
11887.50ft: MUD VIS 64.00
11889.11ft: RIG FUEL ON HAND 11571 USED 1819 GAL
11891.63ft: ZDiffPressure from SideKick sk-11-11-0402

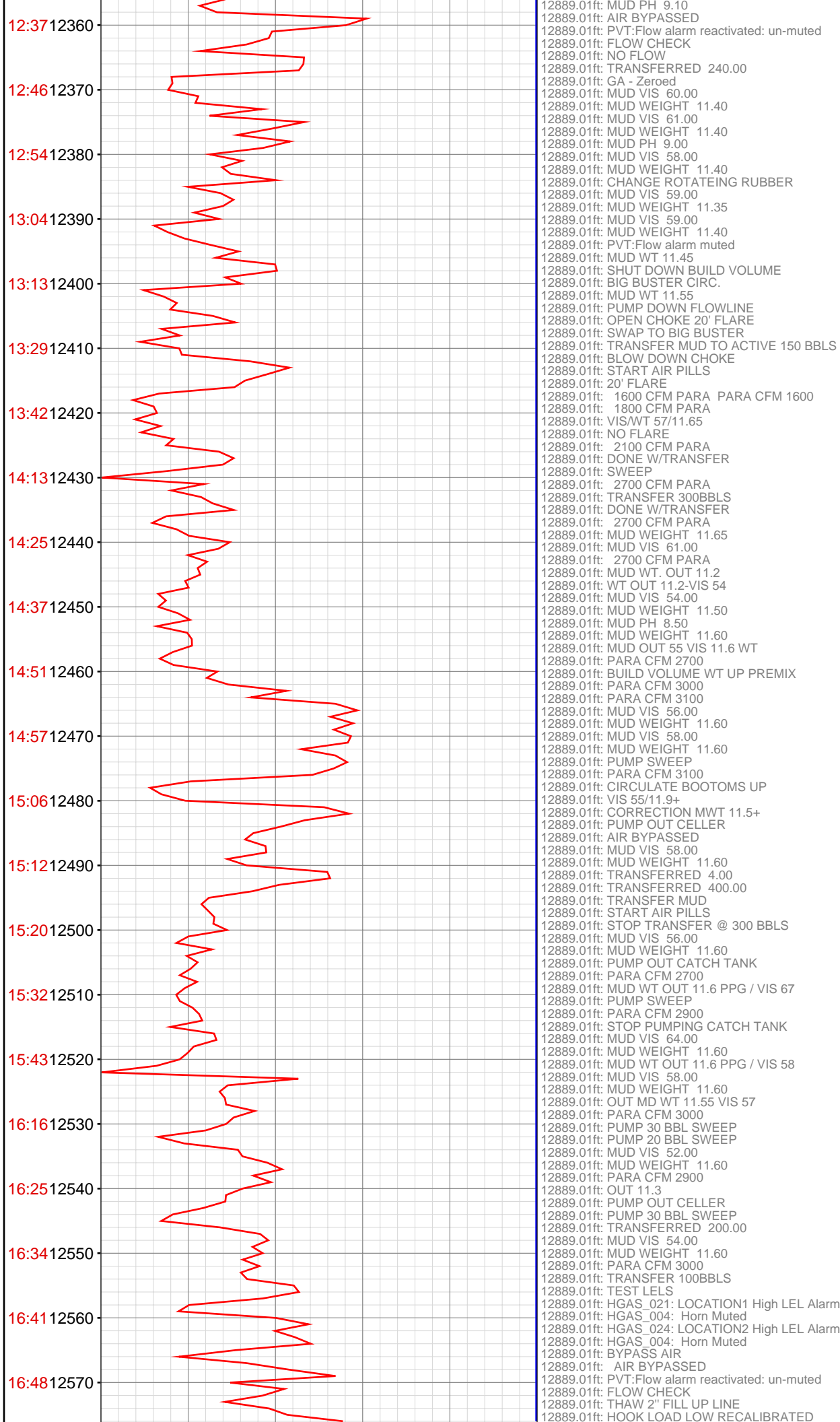
04:12 11900

11901.80ft: SWEEP

04:25 11910







12889.01ft: MUD PH 9.10
12889.01ft: AIR BYPASSED
12889.01ft: PVT:Flow alarm reactivated: un-muted
12889.01ft: FLOW CHECK
12889.01ft: NO FLOW
12889.01ft: TRANSFERRED 240.00
12889.01ft: GA - Zeroed
12889.01ft: MUD VIS 60.00
12889.01ft: MUD WEIGHT 11.40
12889.01ft: MUD VIS 61.00
12889.01ft: MUD WEIGHT 11.40
12889.01ft: MUD PH 9.00
12889.01ft: MUD VIS 58.00
12889.01ft: MUD WEIGHT 11.40
12889.01ft: CHANGE ROTATEING RUBBER
12889.01ft: MUD VIS 59.00
12889.01ft: MUD WEIGHT 11.35
12889.01ft: MUD VIS 59.00
12889.01ft: MUD WEIGHT 11.40
12889.01ft: PVT:Flow alarm muted
12889.01ft: MUD WT 11.45
12889.01ft: SHUT DOWN BUILD VOLUME
12889.01ft: BIG BUSTER CIRC.
12889.01ft: MUD WT 11.55
12889.01ft: PUMP DOWN FLOWLINE
12889.01ft: OPEN CHOKE 20' FLARE
12889.01ft: SWAP TO BIG BUSTER
12889.01ft: TRANSFER MUD TO ACTIVE 150 BBLs
12889.01ft: BLOW DOWN CHOKE
12889.01ft: START AIR PILLS
12889.01ft: 20' FLARE
12889.01ft: 1600 CFM PARA PARA CFM 1600
12889.01ft: 1800 CFM PARA
12889.01ft: VIS/WT 57/11.65
12889.01ft: NO FLARE
12889.01ft: 2100 CFM PARA
12889.01ft: DONE W/TRANSFER
12889.01ft: SWEEP
12889.01ft: 2700 CFM PARA
12889.01ft: TRANSFER 300BBLs
12889.01ft: DONE W/TRANSFER
12889.01ft: 2700 CFM PARA
12889.01ft: MUD WEIGHT 11.65
12889.01ft: MUD VIS 61.00
12889.01ft: 2700 CFM PARA
12889.01ft: MUD WT. OUT 11.2
12889.01ft: WT OUT 11.2-VIS 54
12889.01ft: MUD VIS 54.00
12889.01ft: MUD WEIGHT 11.50
12889.01ft: MUD PH 8.50
12889.01ft: MUD WEIGHT 11.60
12889.01ft: MUD OUT 55 VIS 11.6 WT
12889.01ft: PARA CFM 2700
12889.01ft: BUILD VOLUME WT UP PREMIX
12889.01ft: PARA CFM 3000
12889.01ft: PARA CFM 3100
12889.01ft: MUD VIS 56.00
12889.01ft: MUD WEIGHT 11.60
12889.01ft: MUD VIS 58.00
12889.01ft: MUD WEIGHT 11.60
12889.01ft: PUMP SWEEP
12889.01ft: PARA CFM 3100
12889.01ft: CIRCULATE BOOTOMS UP
12889.01ft: VIS 55/11.9+
12889.01ft: CORRECTION MWT 11.5+
12889.01ft: PUMP OUT CELLER
12889.01ft: AIR BYPASSED
12889.01ft: MUD VIS 58.00
12889.01ft: MUD WEIGHT 11.60
12889.01ft: TRANSFERRED 4.00
12889.01ft: TRANSFERRED 400.00
12889.01ft: TRANSFER MUD
12889.01ft: START AIR PILLS
12889.01ft: STOP TRANSFER @ 300 BBLs
12889.01ft: MUD VIS 56.00
12889.01ft: MUD WEIGHT 11.60
12889.01ft: PUMP OUT CATCH TANK
12889.01ft: PARA CFM 2700
12889.01ft: MUD WT OUT 11.6 PPG / VIS 67
12889.01ft: PUMP SWEEP
12889.01ft: PARA CFM 2900
12889.01ft: STOP PUMPING CATCH TANK
12889.01ft: MUD VIS 64.00
12889.01ft: MUD WEIGHT 11.60
12889.01ft: MUD WT OUT 11.6 PPG / VIS 58
12889.01ft: MUD VIS 58.00
12889.01ft: MUD WEIGHT 11.60
12889.01ft: OUT MD WT 11.55 VIS 57
12889.01ft: PARA CFM 3000
12889.01ft: PUMP 30 BBL SWEEP
12889.01ft: PUMP 20 BBL SWEEP
12889.01ft: MUD VIS 52.00
12889.01ft: MUD WEIGHT 11.60
12889.01ft: PARA CFM 2900
12889.01ft: OUT 11.3
12889.01ft: PUMP OUT CELLER
12889.01ft: PUMP 30 BBL SWEEP
12889.01ft: TRANSFERRED 200.00
12889.01ft: MUD VIS 54.00
12889.01ft: MUD WEIGHT 11.60
12889.01ft: PARA CFM 3000
12889.01ft: TRANSFER 100BBLs
12889.01ft: TEST LELS
12889.01ft: HGAS_021: LOCATION1 High LEL Alarm
12889.01ft: HGAS_004: Horn Muted
12889.01ft: HGAS_024: LOCATION2 High LEL Alarm
12889.01ft: HGAS_004: Horn Muted
12889.01ft: BYPASS AIR
12889.01ft: AIR BYPASSED
12889.01ft: PVT:Flow alarm reactivated: un-muted
12889.01ft: FLOW CHECK
12889.01ft: THAW 2" FILL UP LINE
12889.01ft: HOOK LOAD LOW RECALIBRATED

