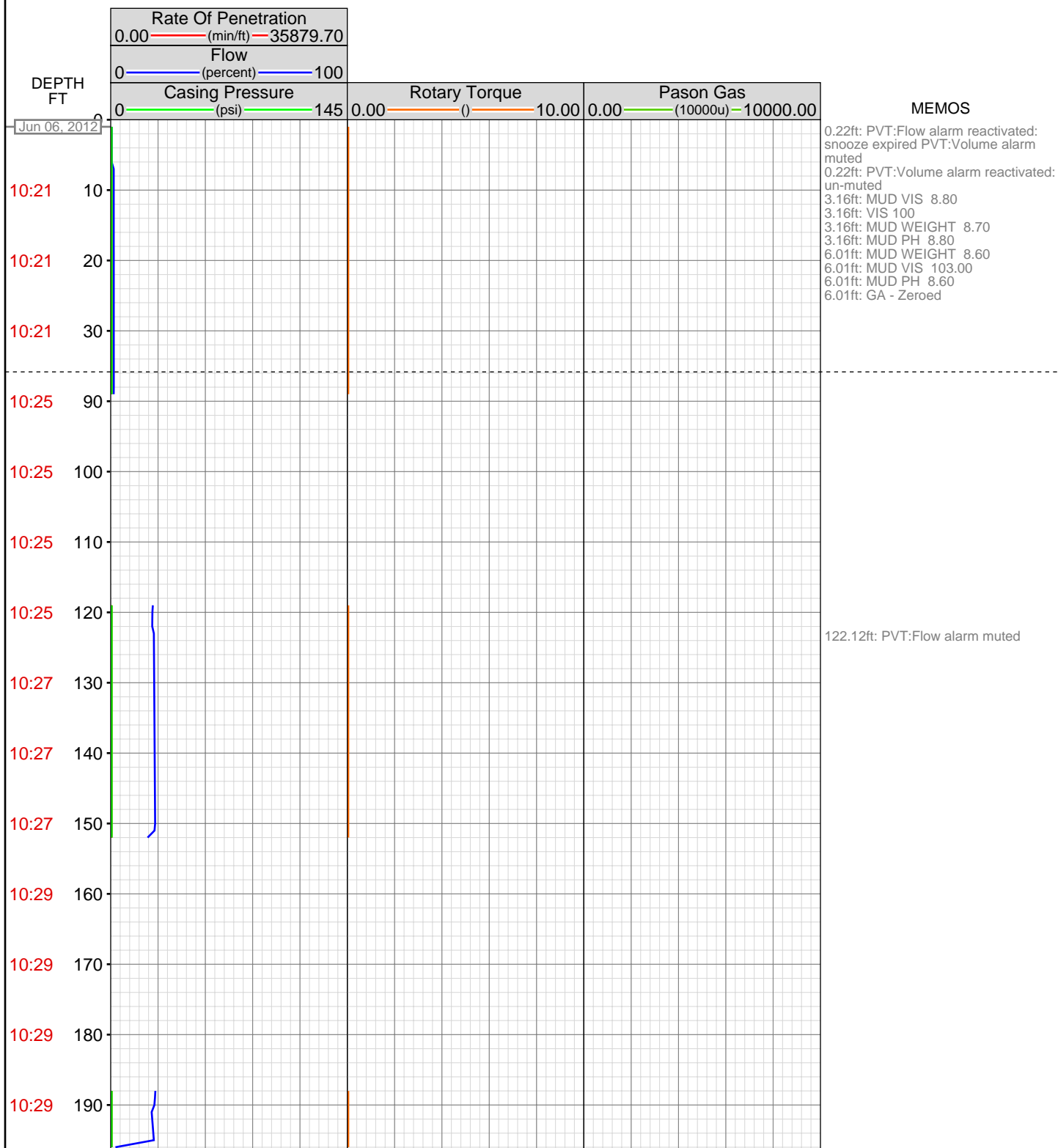


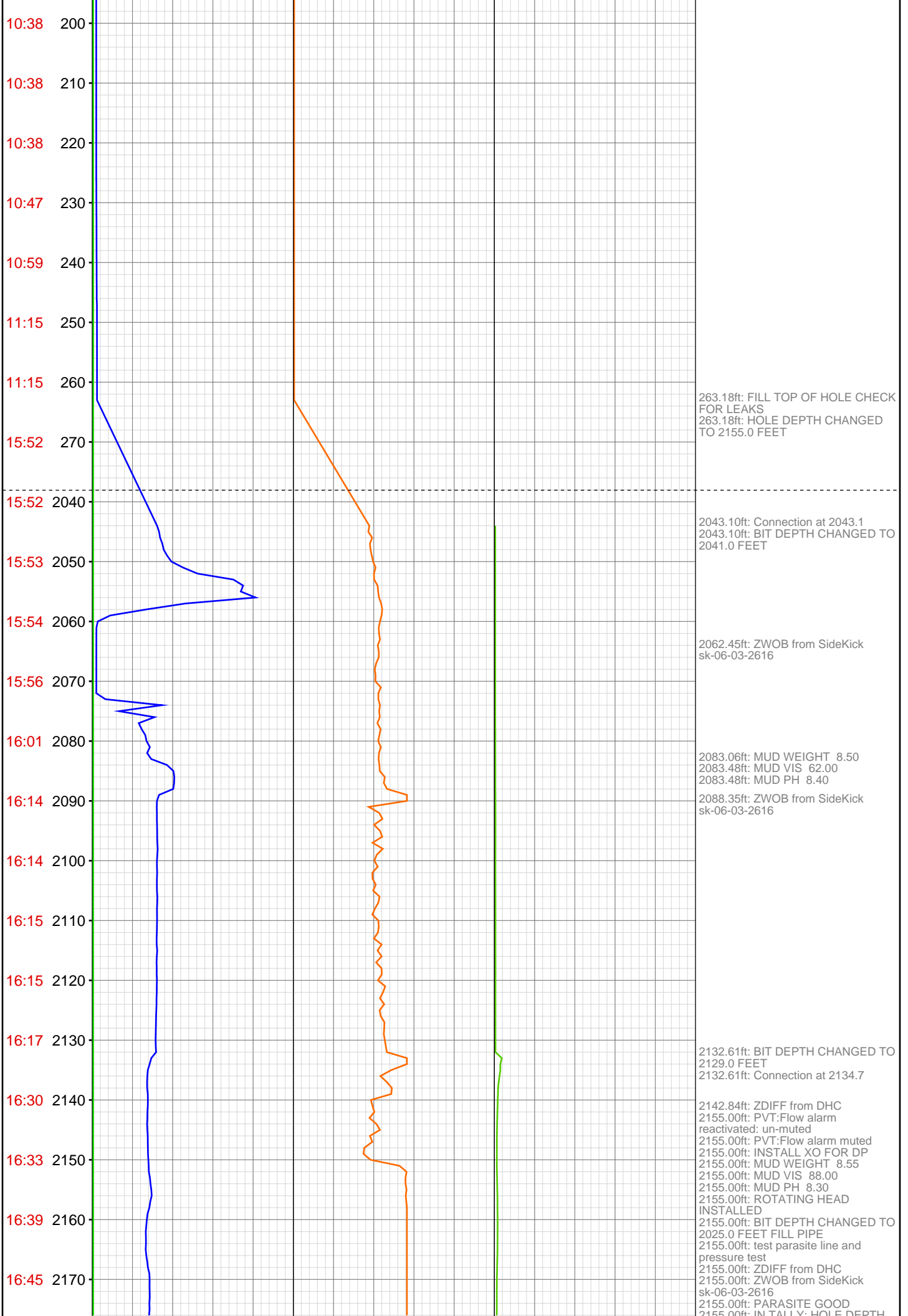
# DataHub EDR Log

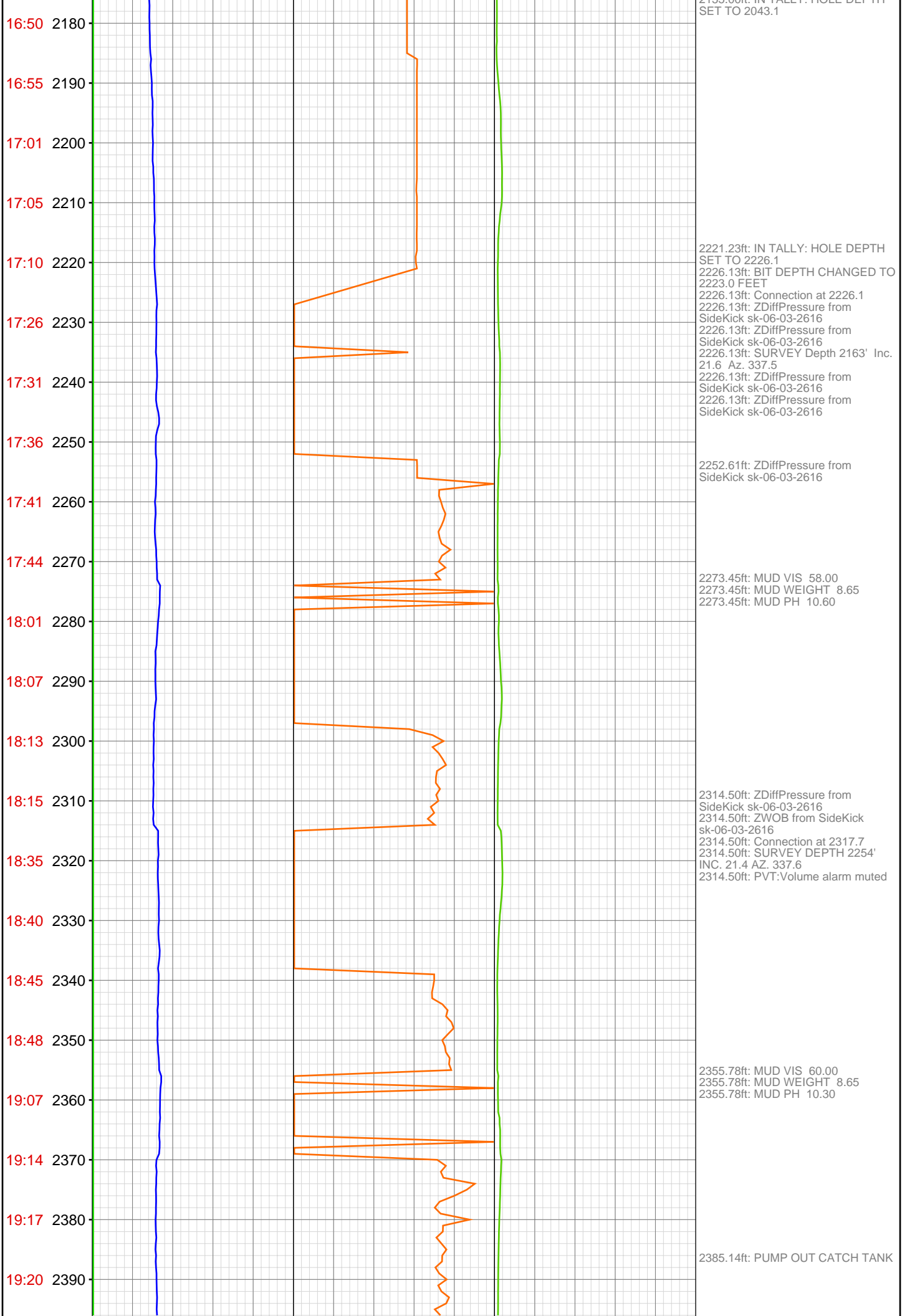
Thu Jun 21, 2012 10:45:31  
Well Dossier 3955973  
Marilyn Tucker

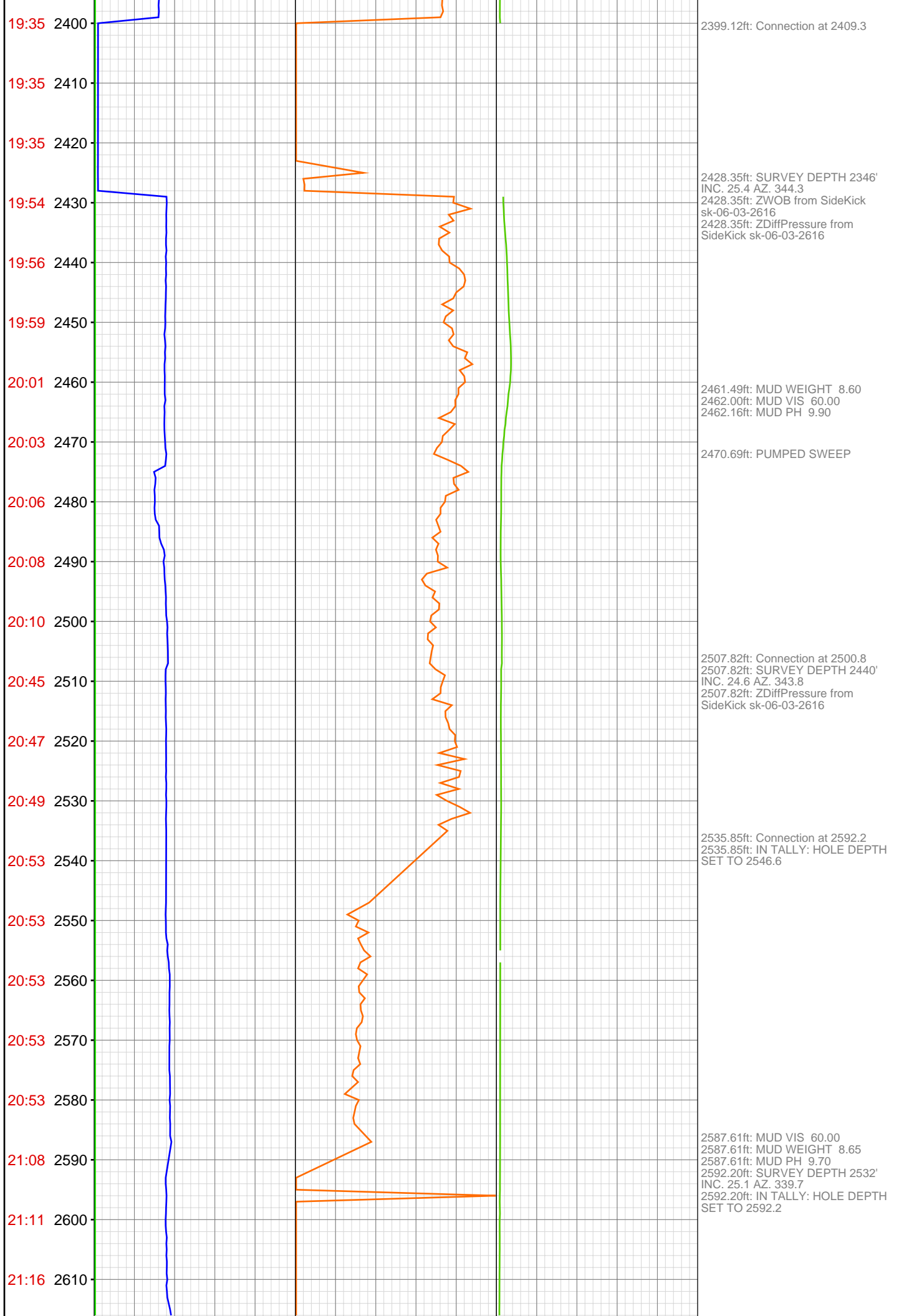
**OPERATOR:** EnCana Oil & Gas (USA), Inc.  
**WELL:** DOUBLE WILLOW 8608C-28 P28 496  
**FIELD:**  
**LOCATION:** SEC.36 T4S RNG 96W  
**COUNTRY:** USA  
**RIG:** Pat-UTI 308

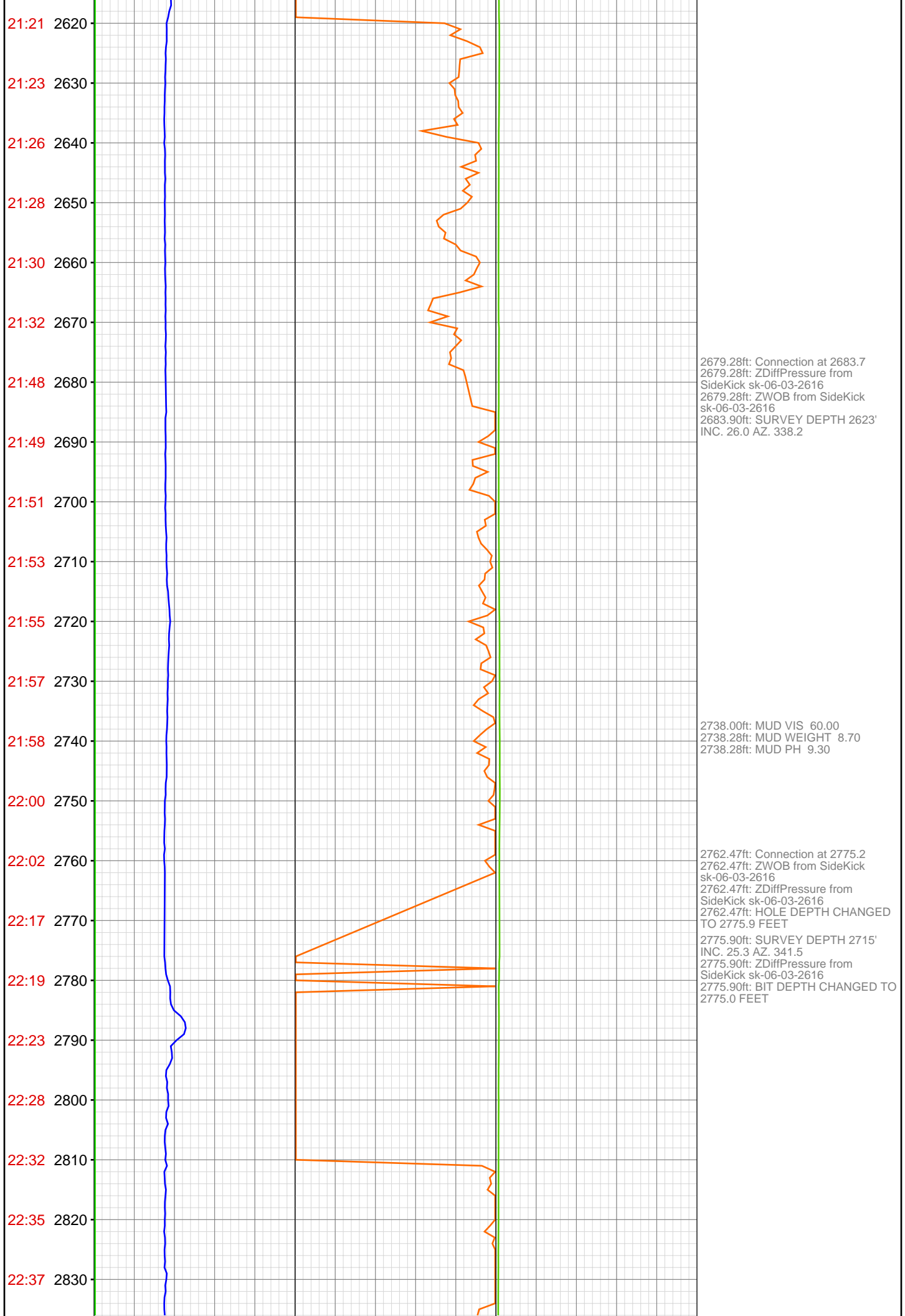
**CONTRACTOR:** Patterson-UTI Drilling Company  
**UNIQUE WELL ID:** 504520799  
**SPUD DATE:** Jun 06, 2012 12:00  
**RELEASE DATE:** Jun 14, 2012 16:00

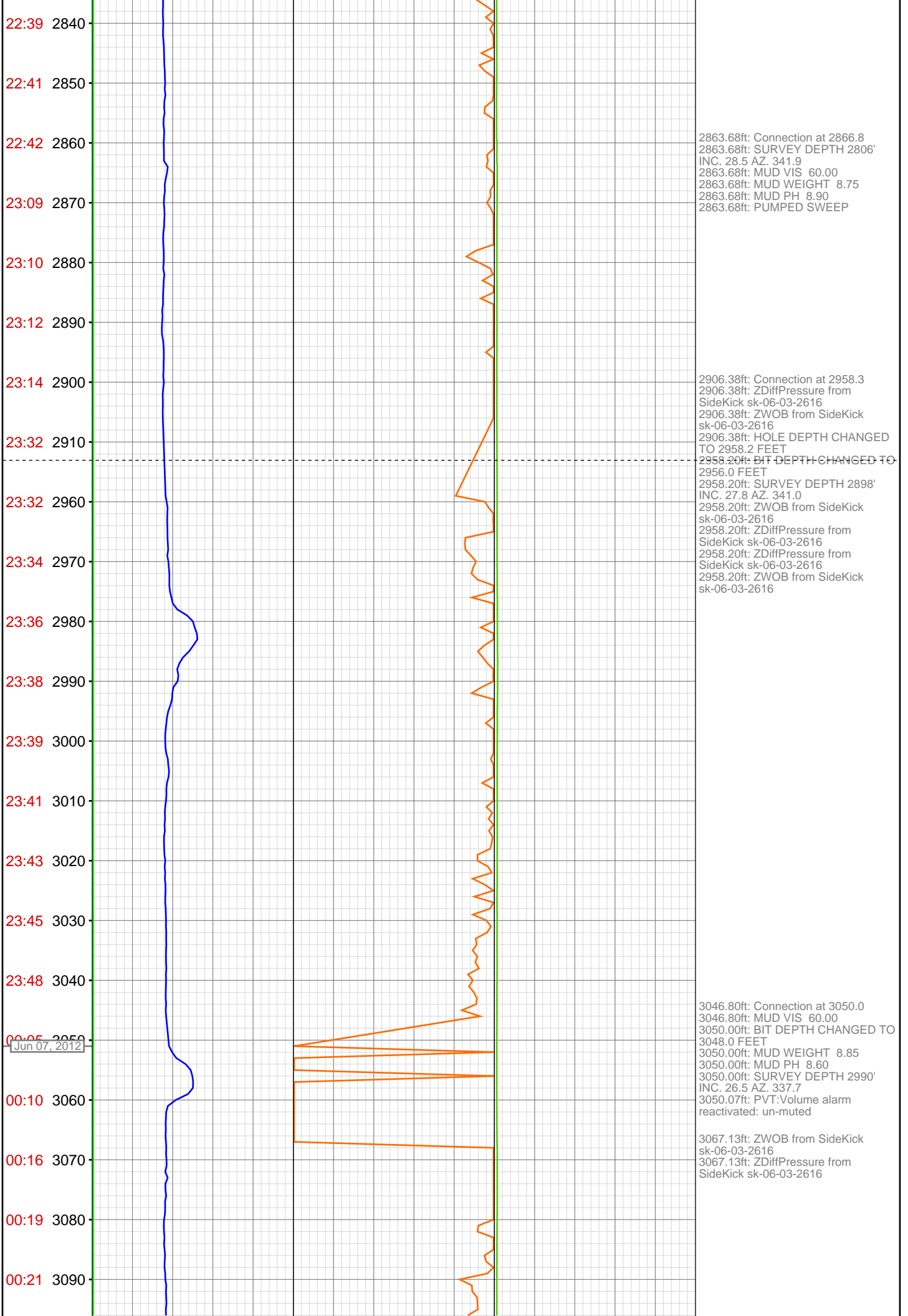


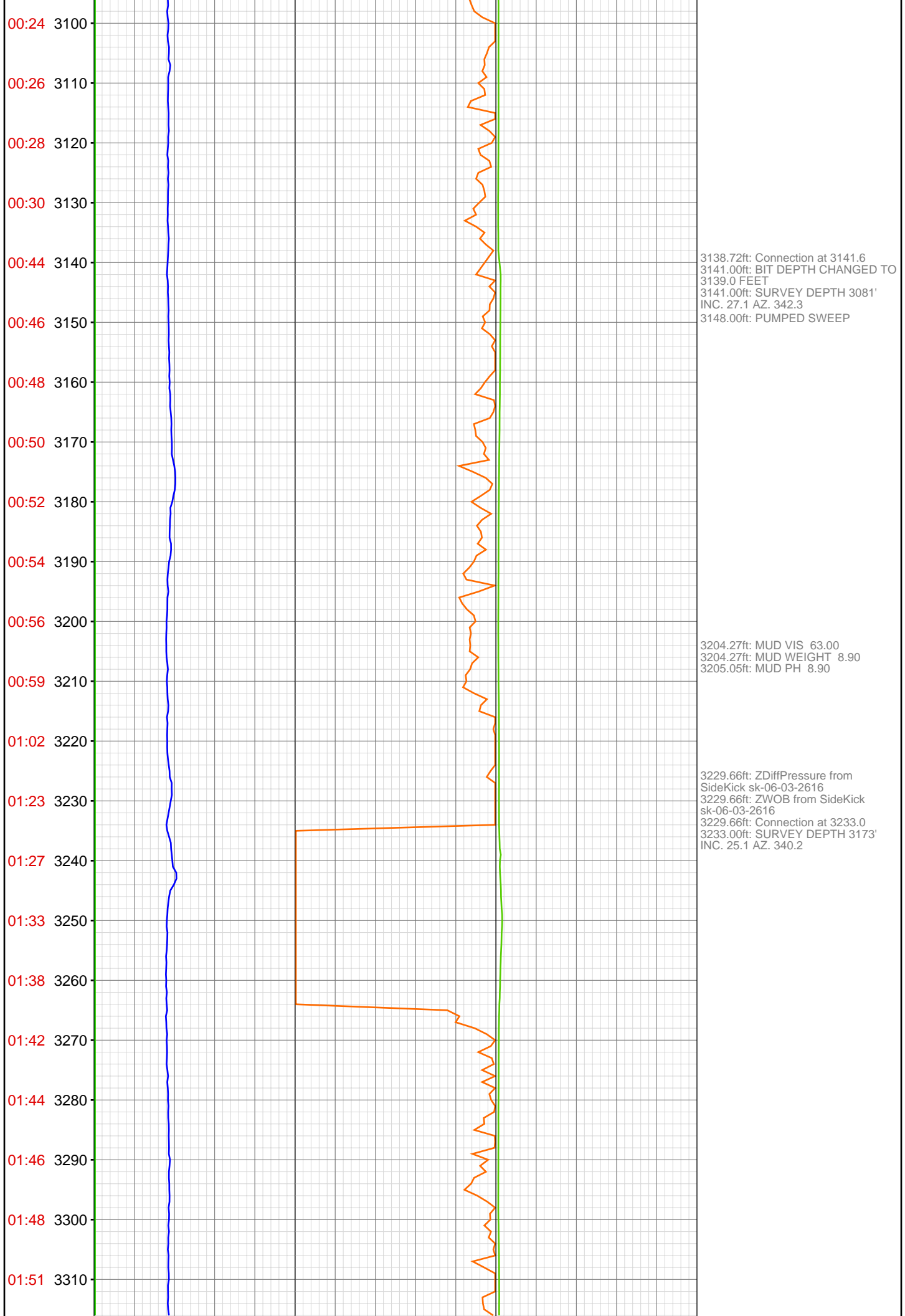


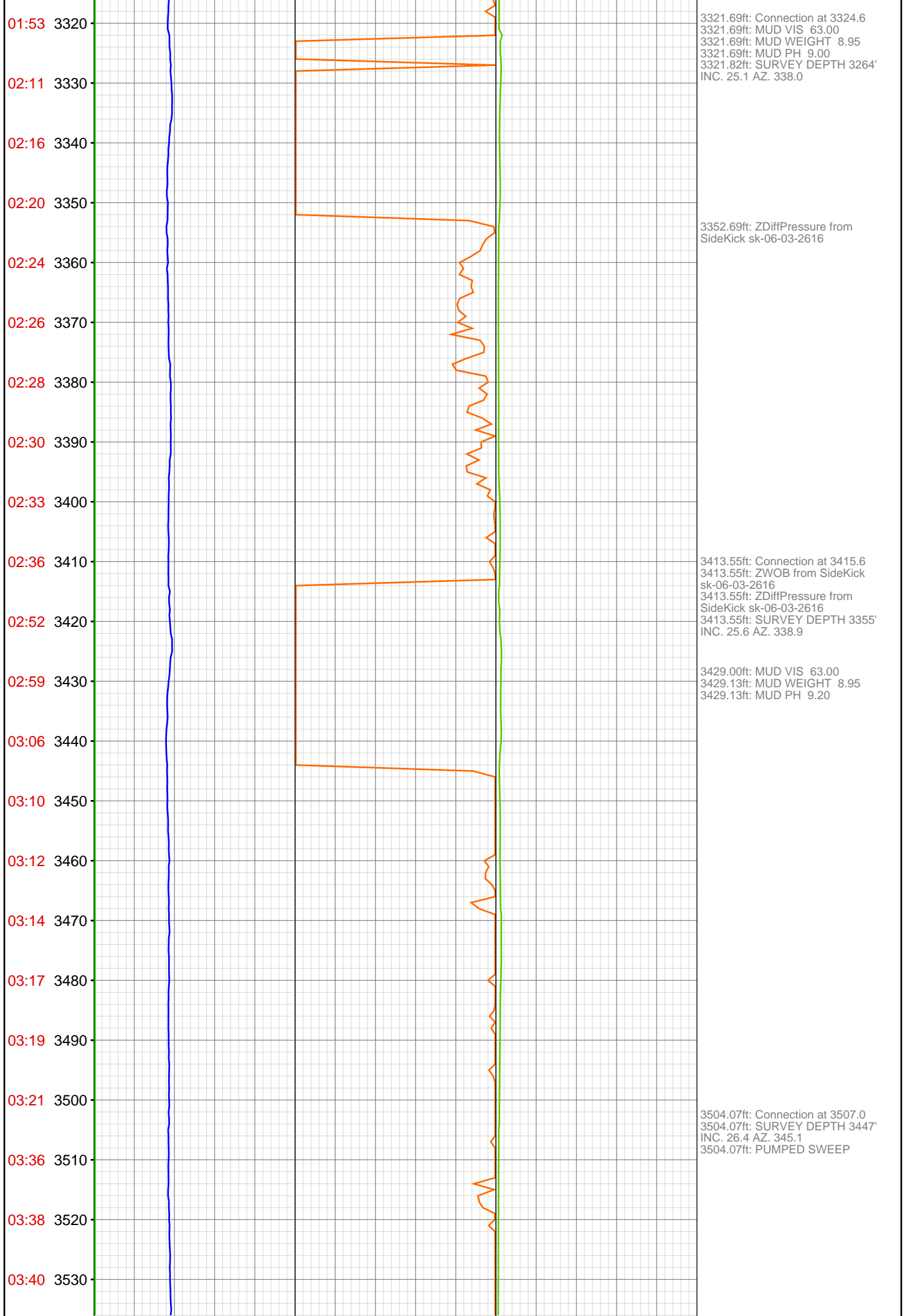




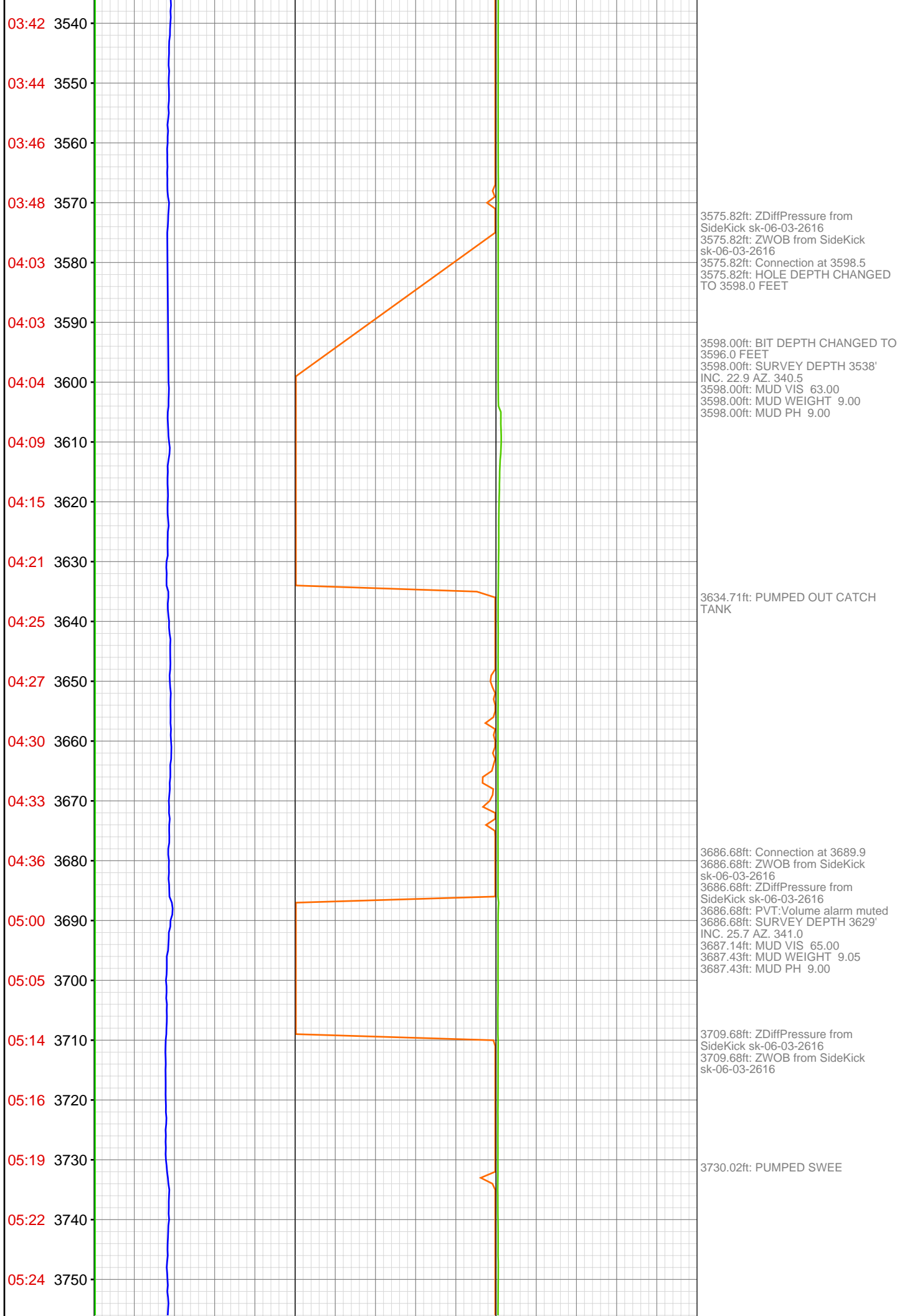












05:26 3760  
05:28 3770  
05:40 3780  
05:42 3790  
05:44 3800  
05:47 3810  
05:49 3820  
05:52 3830  
05:54 3840  
05:56 3850  
05:59 3860  
06:11 3870  
06:13 3880  
06:16 3890  
06:18 3900  
06:20 3910  
06:22 3920  
06:25 3930  
06:27 3940  
06:29 3950  
06:32 3960  
06:43 3970

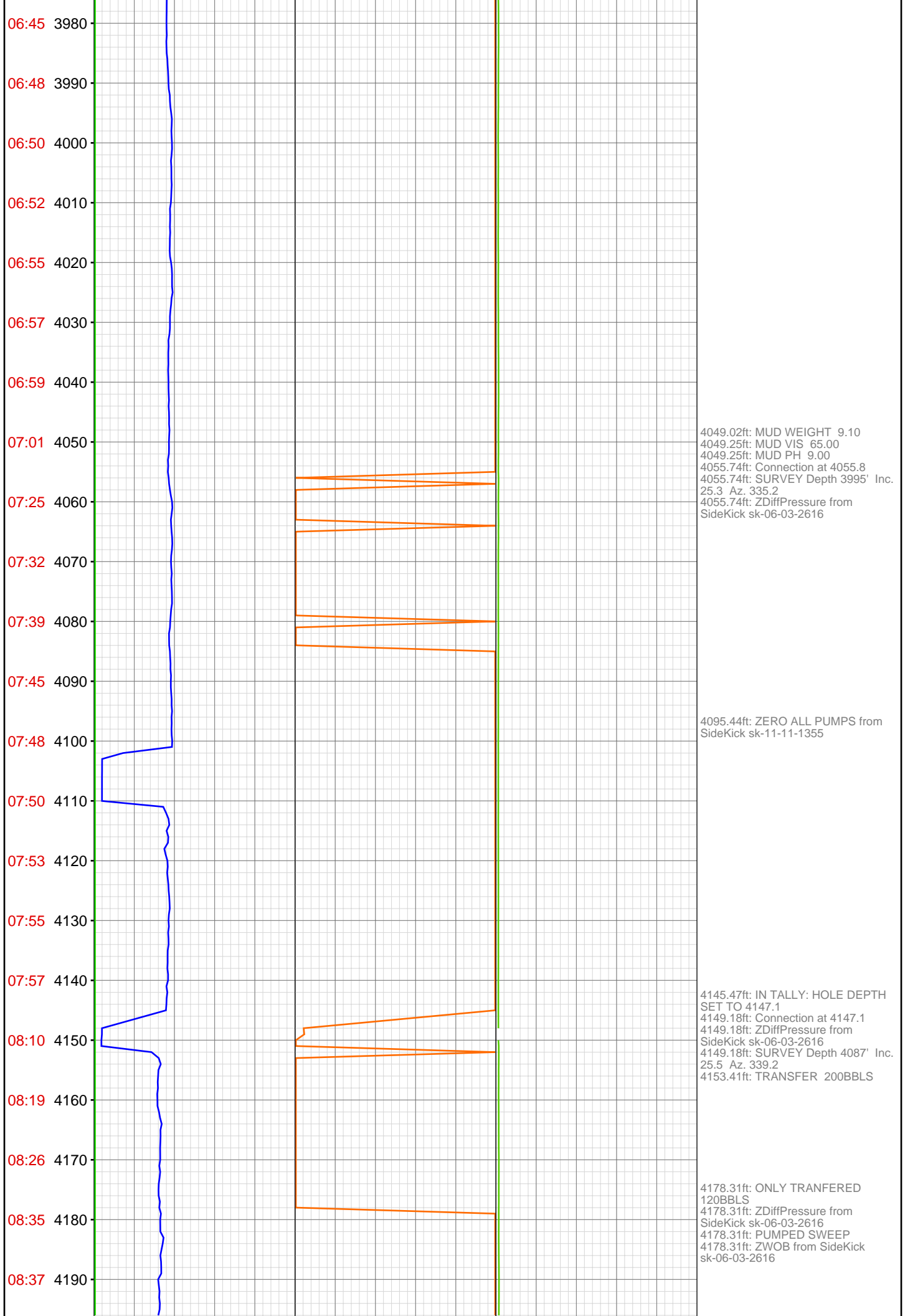
3776.44ft: IN TALLY: HOLE DEPTH  
SET TO 3781.4  
3781.40ft: Connection at 3781.4  
3781.40ft: SURVEY Depth 3721' Inc.  
28.4 Az. 340.5

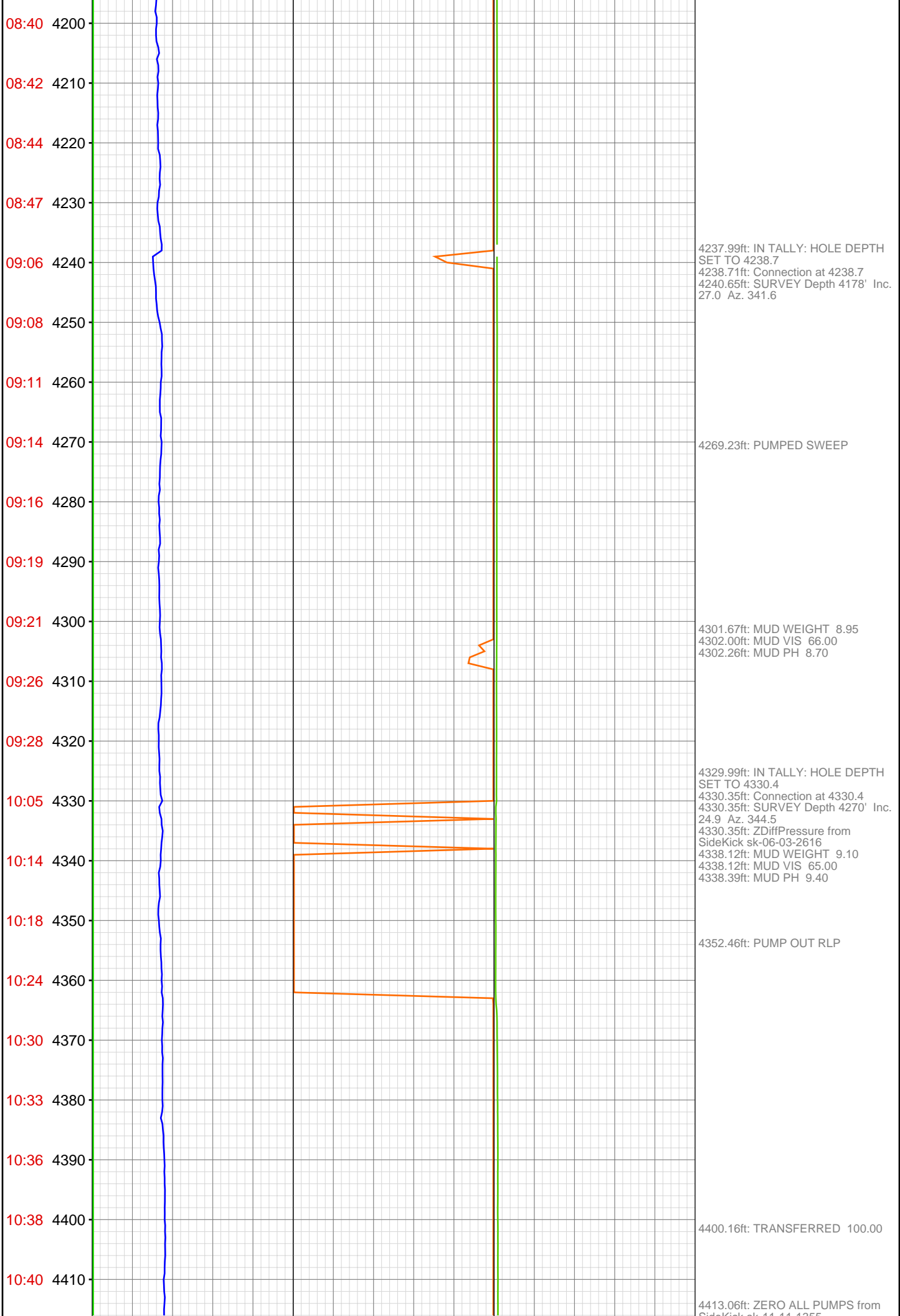
3868.04ft: IN TALLY: HOLE DEPTH  
SET TO 3872.9  
3872.90ft: Connection at 3872.9  
3872.90ft: ZDiffPressure from  
SideKick sk-06-03-2616

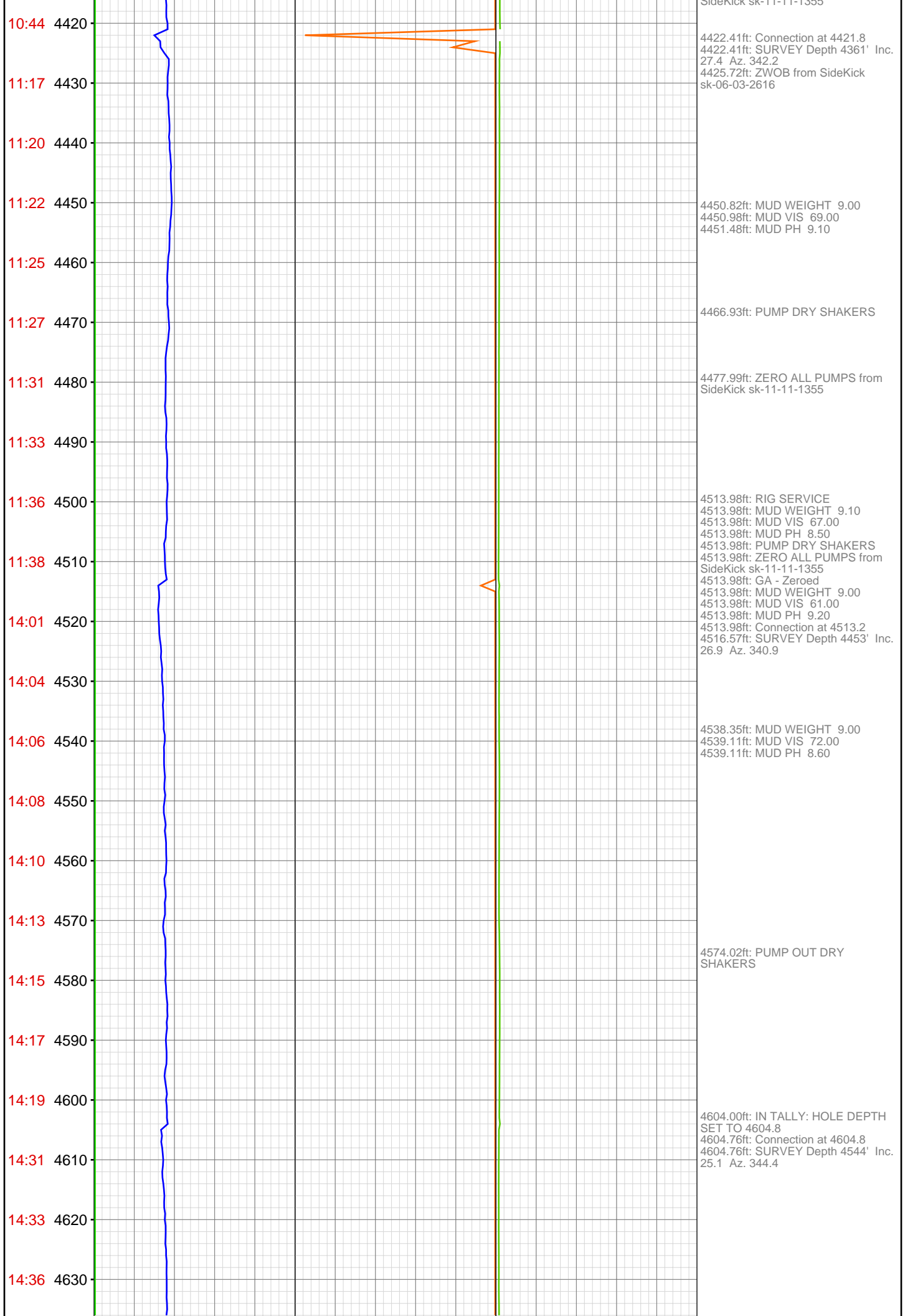
3886.38ft: SURVEY Depth 3812' Inc.  
27.3 Az. 337.0

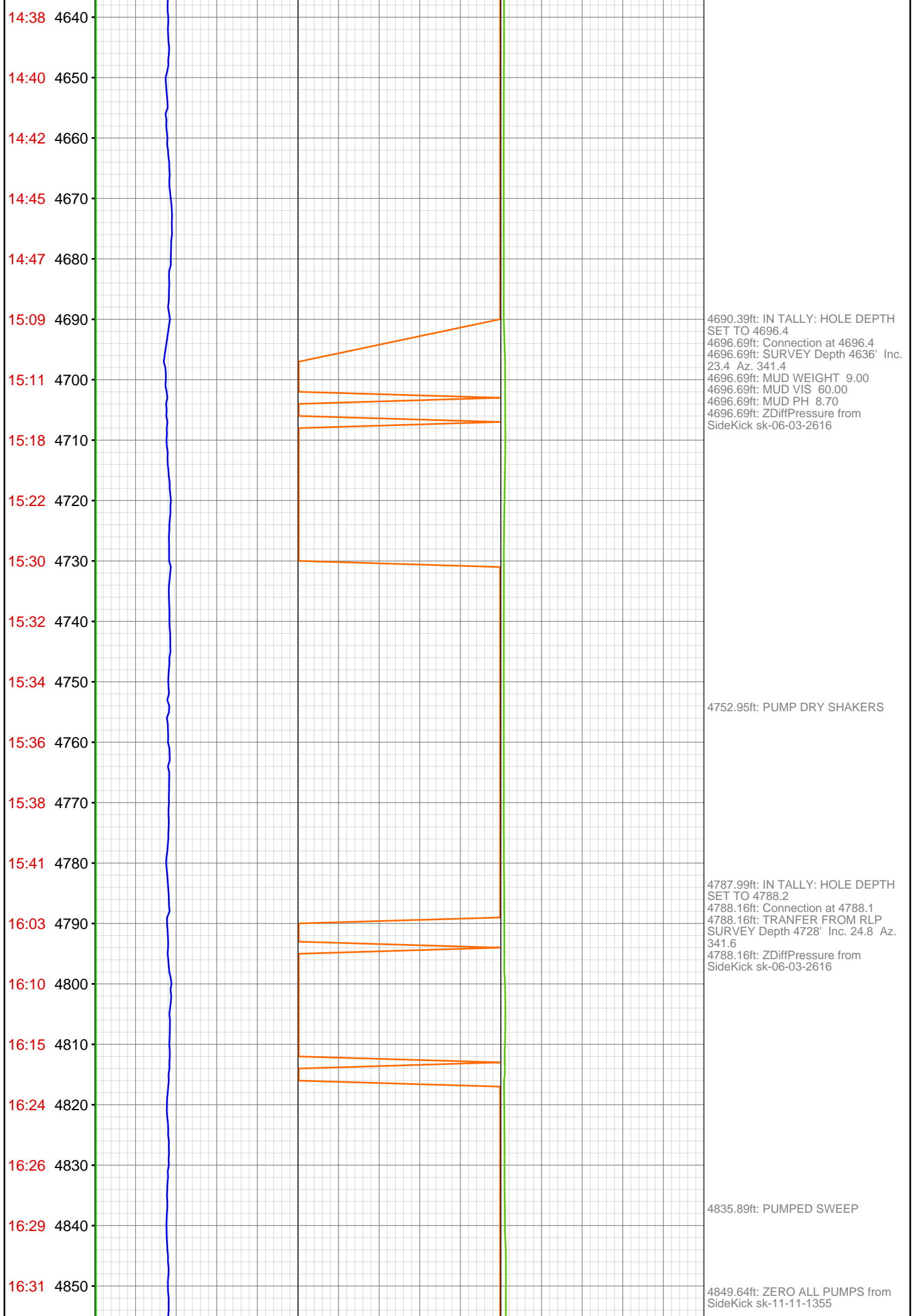
3946.36ft: PUMP OUT DRY  
SHAKERS

3961.78ft: IN TALLY: HOLE DEPTH  
SET TO 3964.2  
3964.44ft: Connection at 3964.2  
3964.70ft: SURVEY Depth 3904' Inc.  
26.1 Az. 337.2









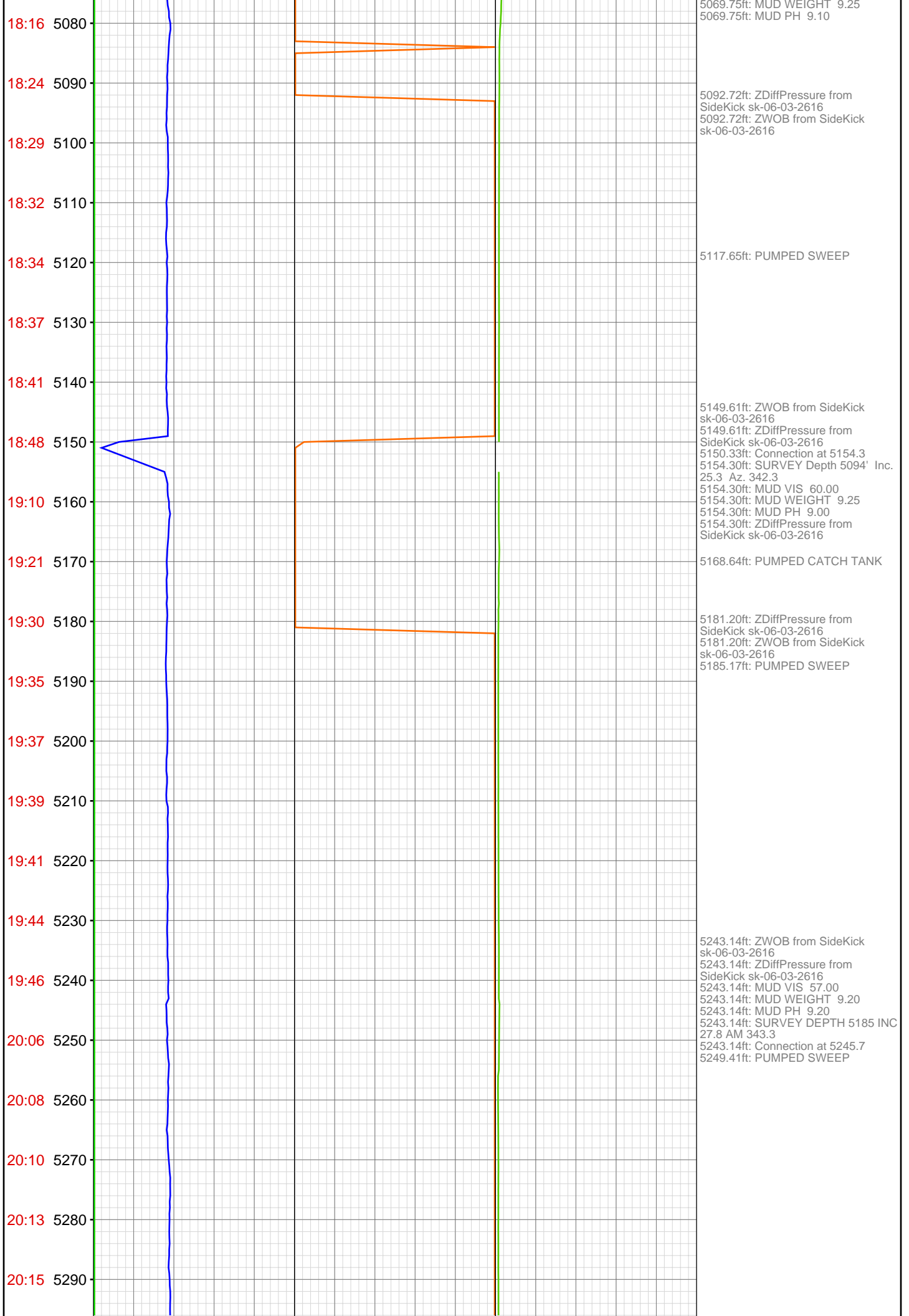
16:33 4860  
16:36 4870  
16:47 4880  
16:49 4890  
16:51 4900  
16:53 4910  
16:56 4920  
16:58 4930  
17:00 4940  
17:02 4950  
17:05 4960  
17:07 4970  
17:28 4980  
17:31 4990  
17:33 5000  
17:35 5010  
17:37 5020  
17:40 5030  
17:43 5040  
17:45 5050  
18:02 5060  
18:08 5070

4873.66ft: IN TALLY: HOLE DEPTH  
SET TO 4879.8  
4879.86ft: Connection at 4879.8  
4879.86ft: SURVEY Depth 4819' Inc.  
26.9 Az. 339.8

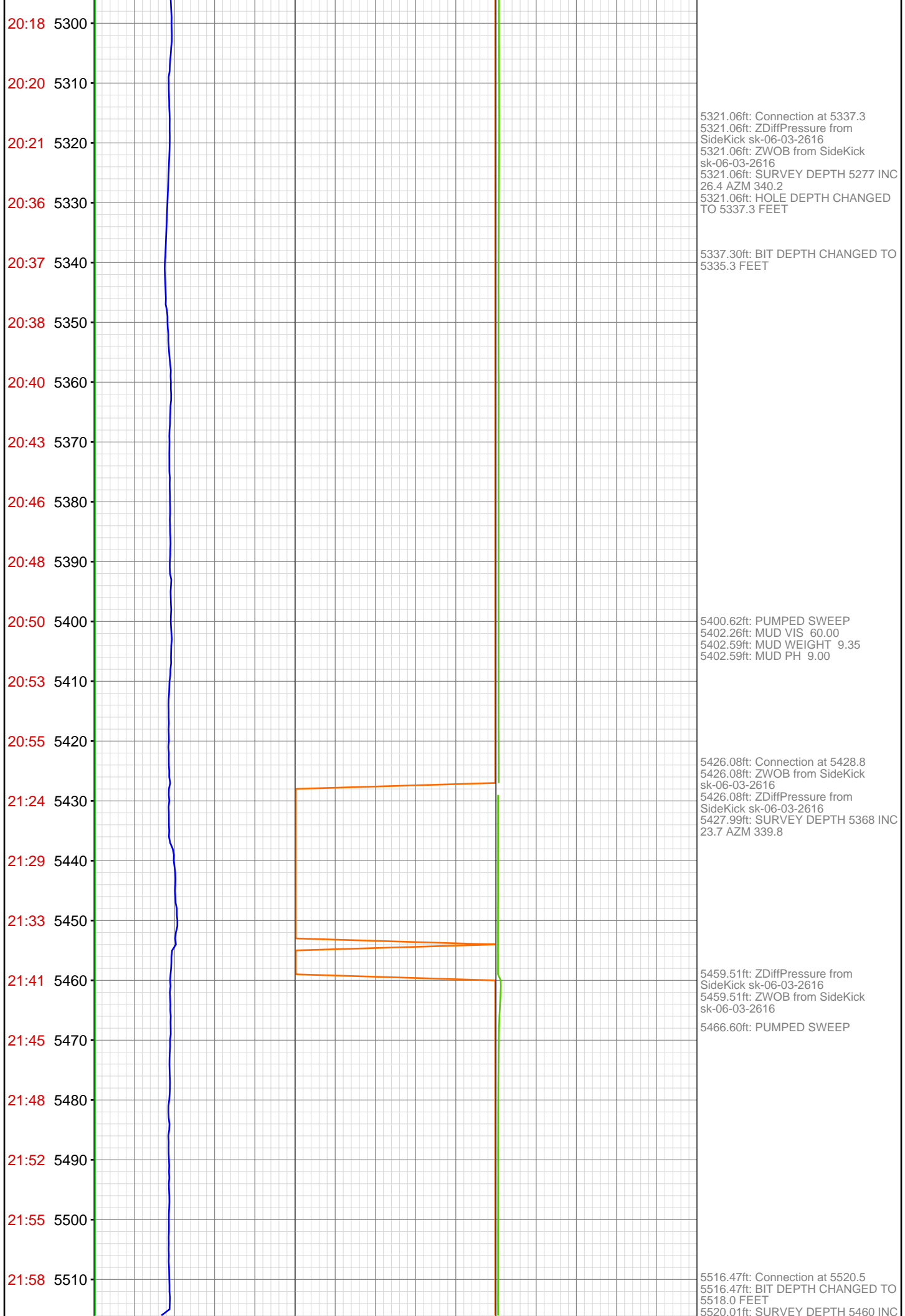
4971.69ft: Connection at 4971.4  
4971.69ft: SURVEY Depth 4911' Inc.  
25.2 Az. 343.1

4999.48ft: PVT:Flow and volume  
alarm reactivated: un-muted

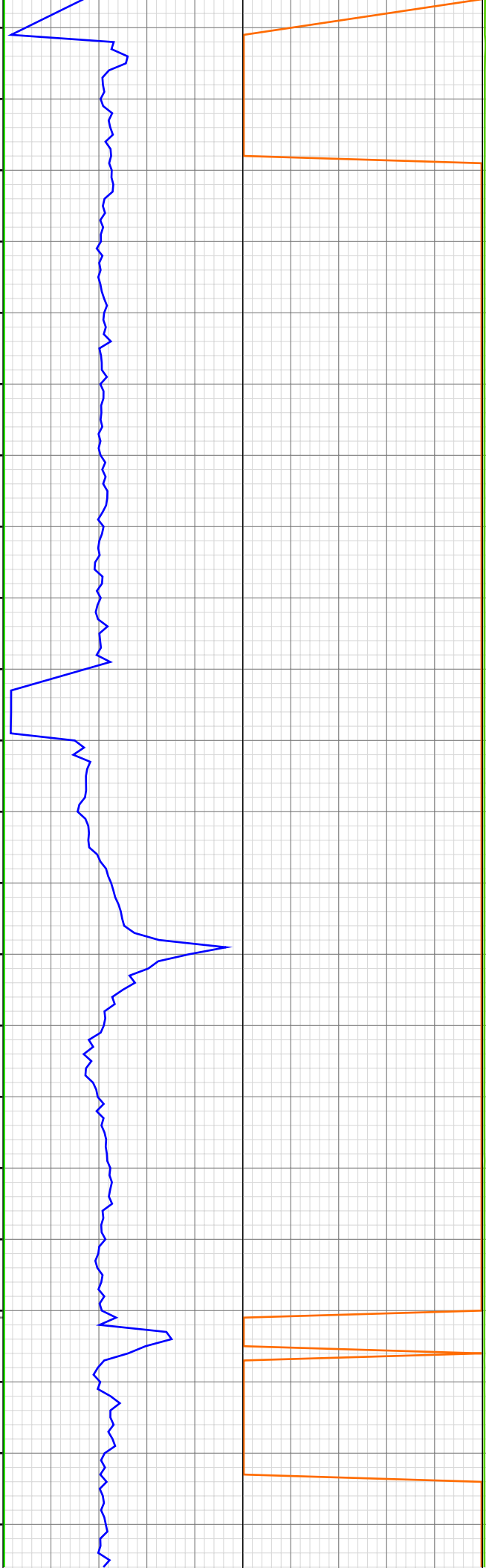
5057.97ft: IN TALLY: HOLE DEPTH  
SET TO 5062.7  
5062.73ft: PVT:Flow and volume  
alarm muted  
5062.73ft: Connection at 5062.7  
5062.73ft: BIT DEPTH CHANGED TO  
5058.0 FEET  
5062.73ft: SURVEY Depth 5002' Inc.  
23.5 Az. 338.7  
5062.73ft: ZDiffPressure from  
SideKick sk-06-03-2616  
5069.62ft: MUD VIS 59.00





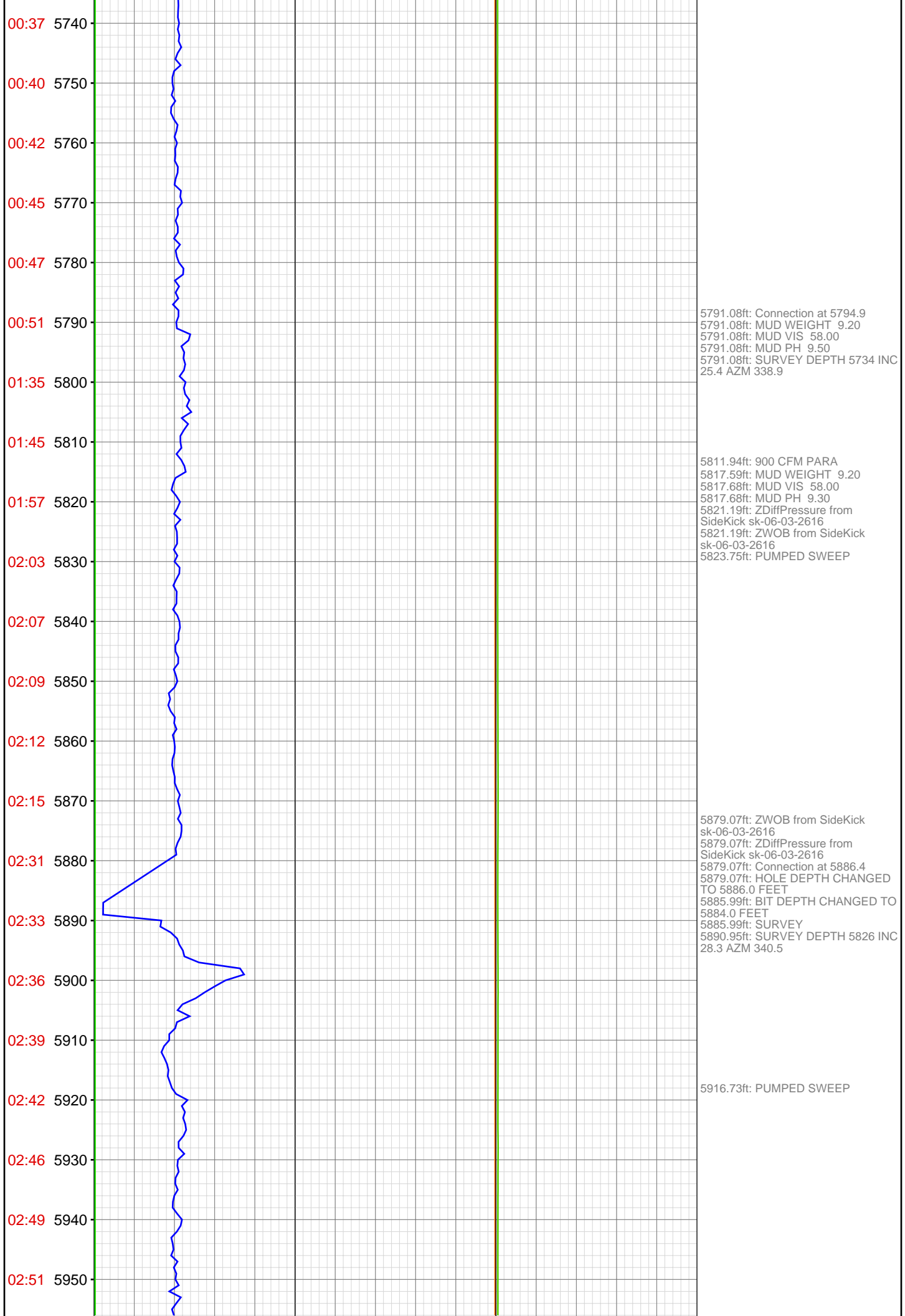


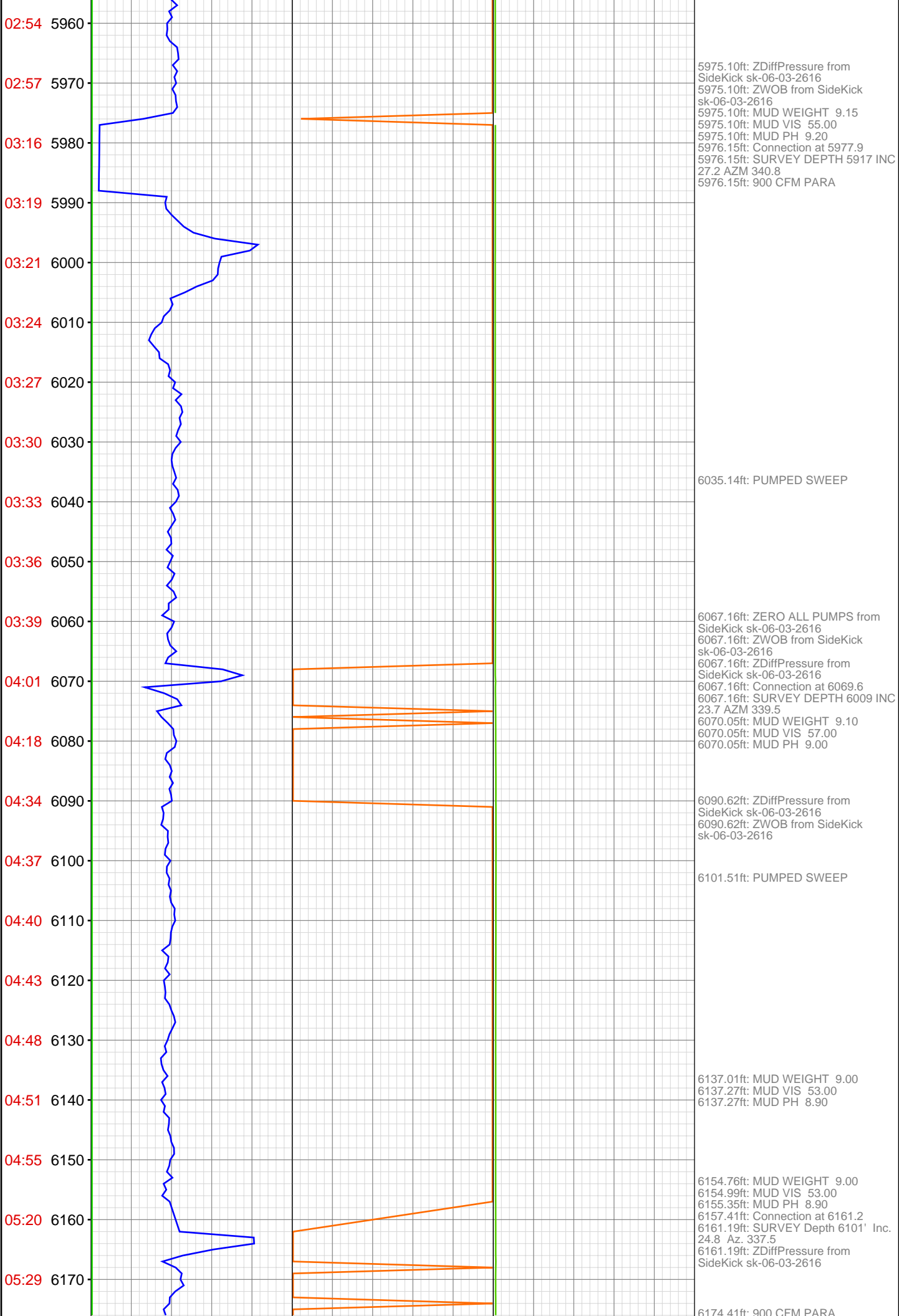
22:17 5520  
22:52 5530  
23:04 5540  
23:06 5550  
23:09 5560  
23:12 5570  
23:15 5580  
23:18 5590  
23:20 5600  
23:37 5610  
23:39 5620  
23:42 5630  
23:45 5640  
23:47 5650  
23:49 5660  
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23:55 5680  
23:57 5690  
23:59 5700  
00:21 5710  
00:28 5720  
00:35 5730

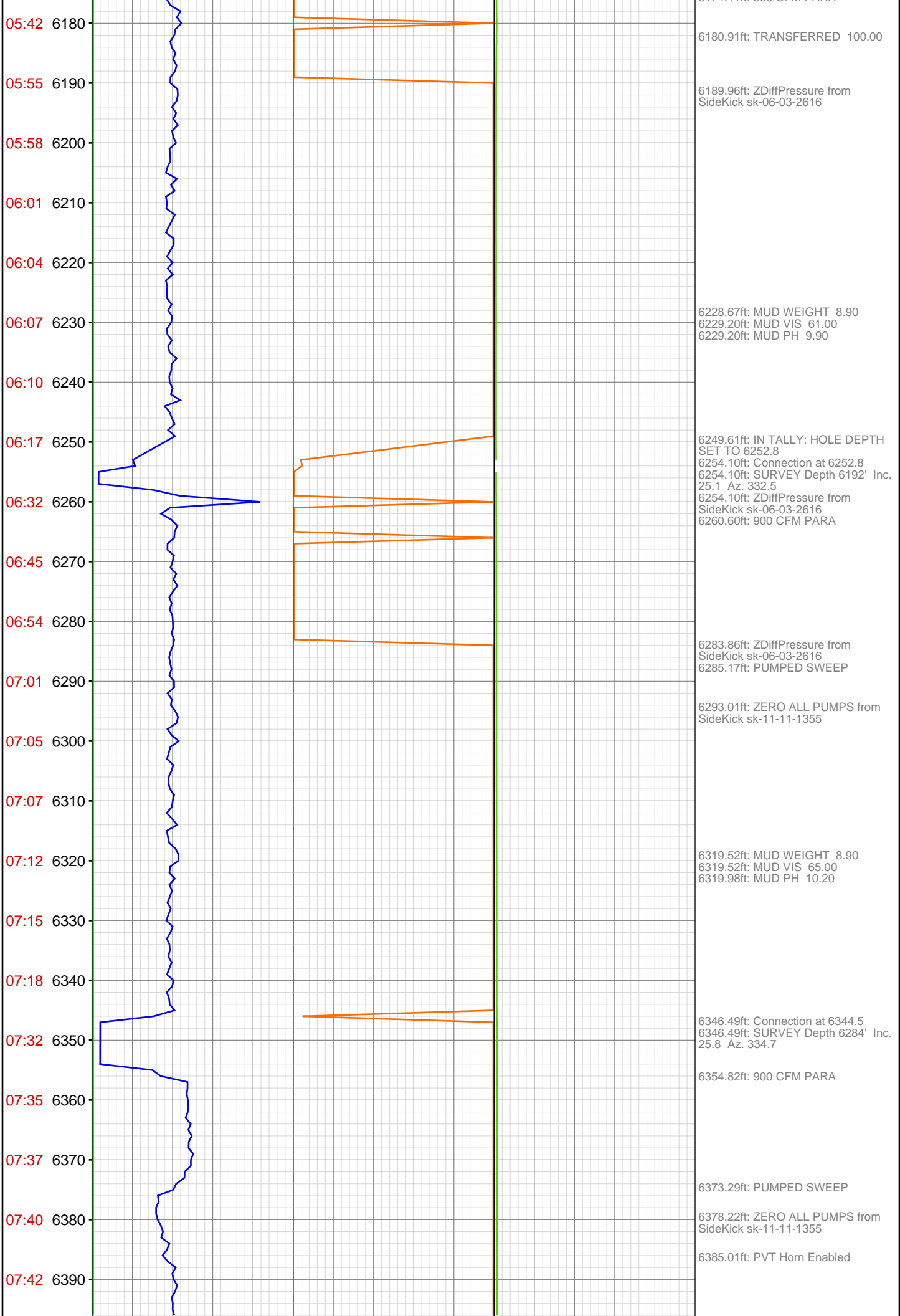


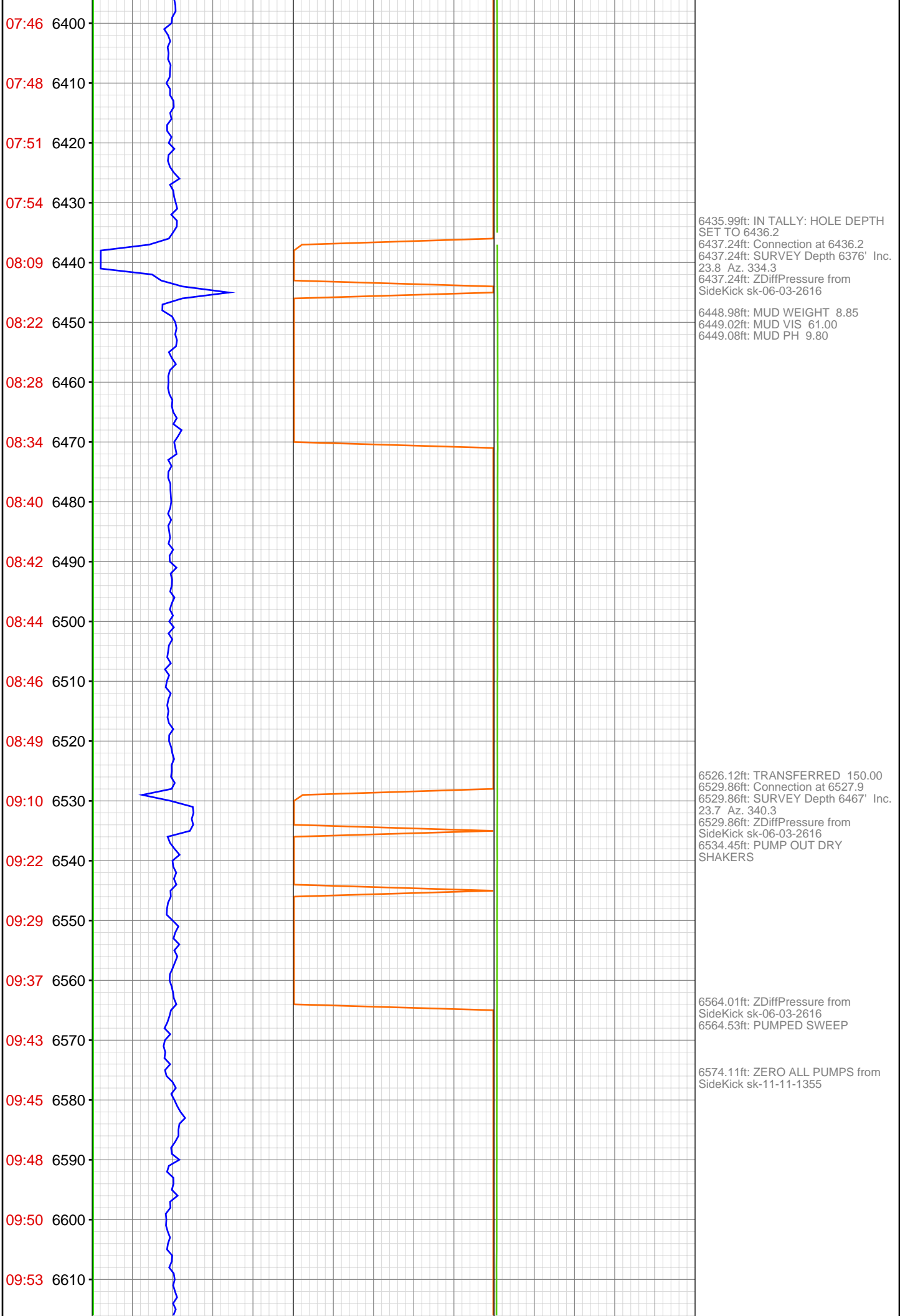
25.8 AZM 342.7  
5520.01ft: MUD WEIGHT 9.35  
5520.01ft: MUD VIS 58.00  
5520.01ft: MUD PH 8.80  
5521.62ft: PUMPED LCM SWEEP  
5521.62ft: TRANSFER TO ACTIVE  
FROM PRE-MIX  
5521.62ft: 900 CFM PARA  
  
5538.62ft: ZWOB from SideKick  
sk-06-03-2616  
5538.62ft: ZDiffPressure from  
SideKick sk-06-03-2616  
5540.16ft: PVT:Flow and volume  
alarm reactivated: un-muted  
5547.97ft: PVT:Flow alarm muted  
  
5555.38ft: PVT:Volume alarm muted  
  
5560.89ft: PUMPED SWEEP  
  
5609.09ft: ZDiffPressure from  
SideKick sk-06-03-2616  
5609.09ft: ZWOB from SideKick  
sk-06-03-2616  
5609.09ft: Connection at 5612.1  
5612.01ft: SURVEY DEPTH 5552 INC  
27.6 AZM 340.5  
  
5644.59ft: 900 CFM PARA  
  
5700.66ft: Connection at 5703.6  
5700.66ft: SURVEY DEPTH 5643 INC  
25.5 AZM 341.5  
5700.66ft: MUD VIS 61.00  
5700.66ft: MUD WEIGHT 9.30  
5700.66ft: MUD PH 9.90  
  
5723.62ft: ZWOB from SideKick  
sk-06-03-2616  
5723.62ft: ZDiffPressure from  
SideKick sk-06-03-2616  
5723.62ft: PUMPED SWEEP

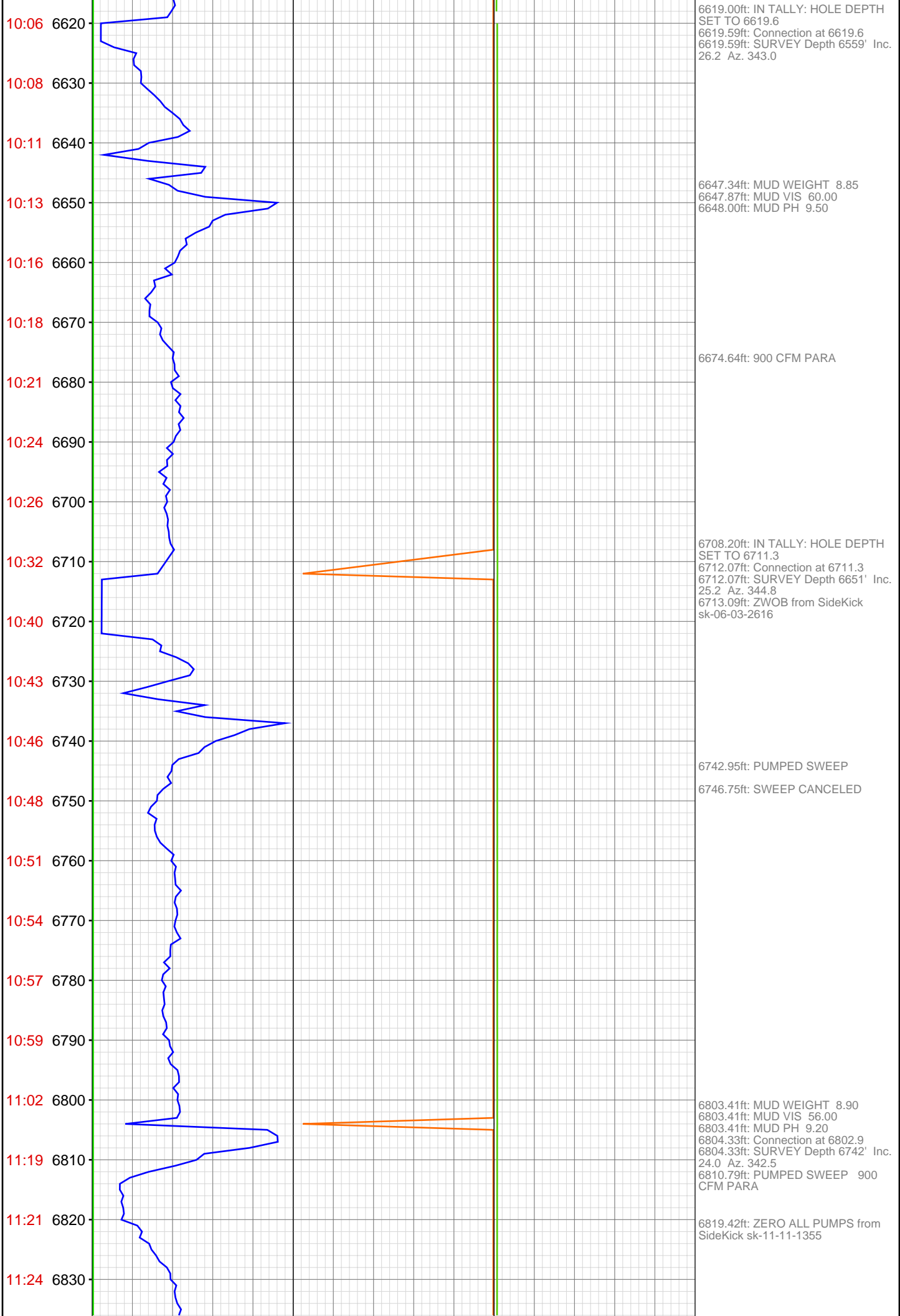
Jun 08, 2012

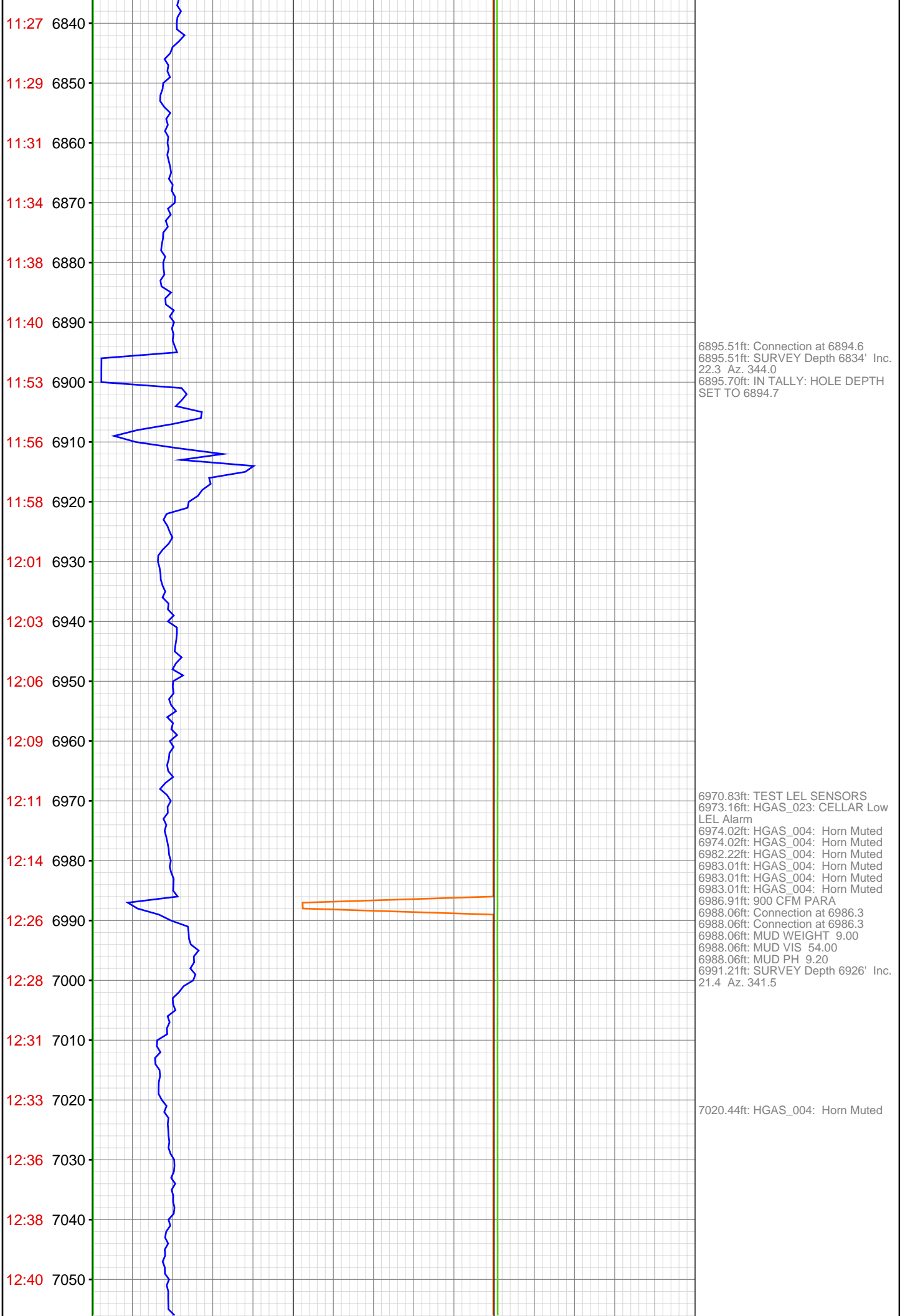




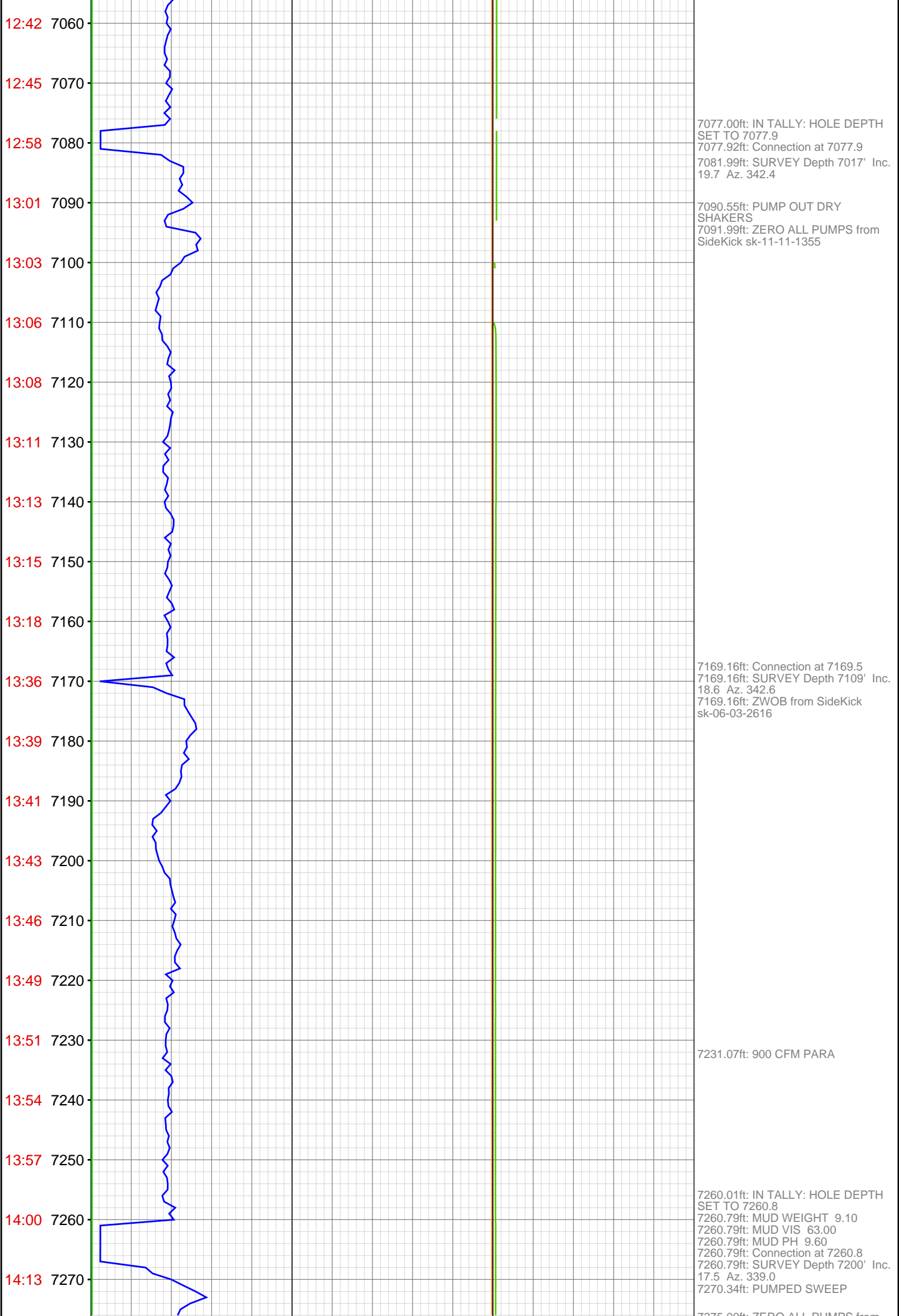


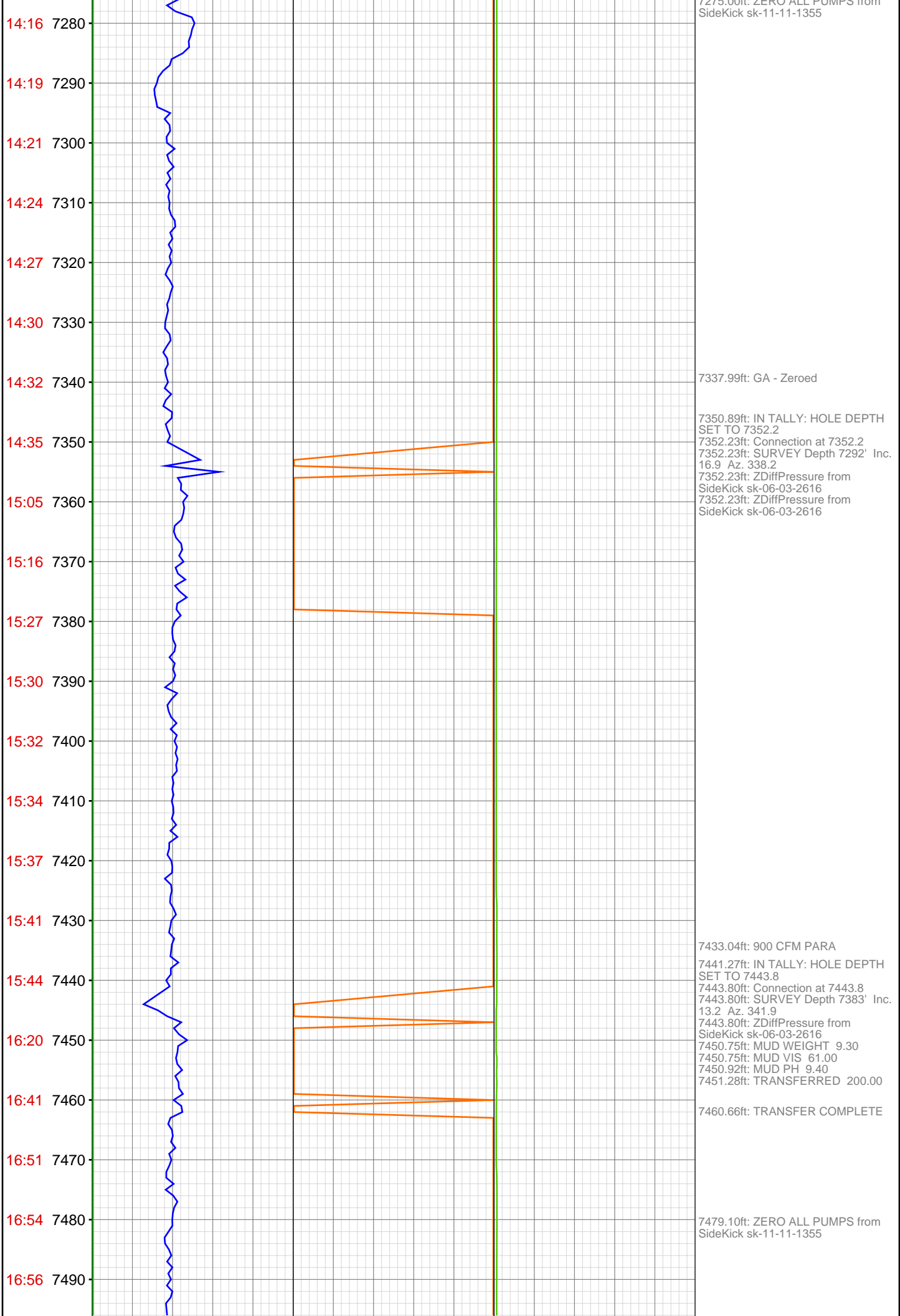


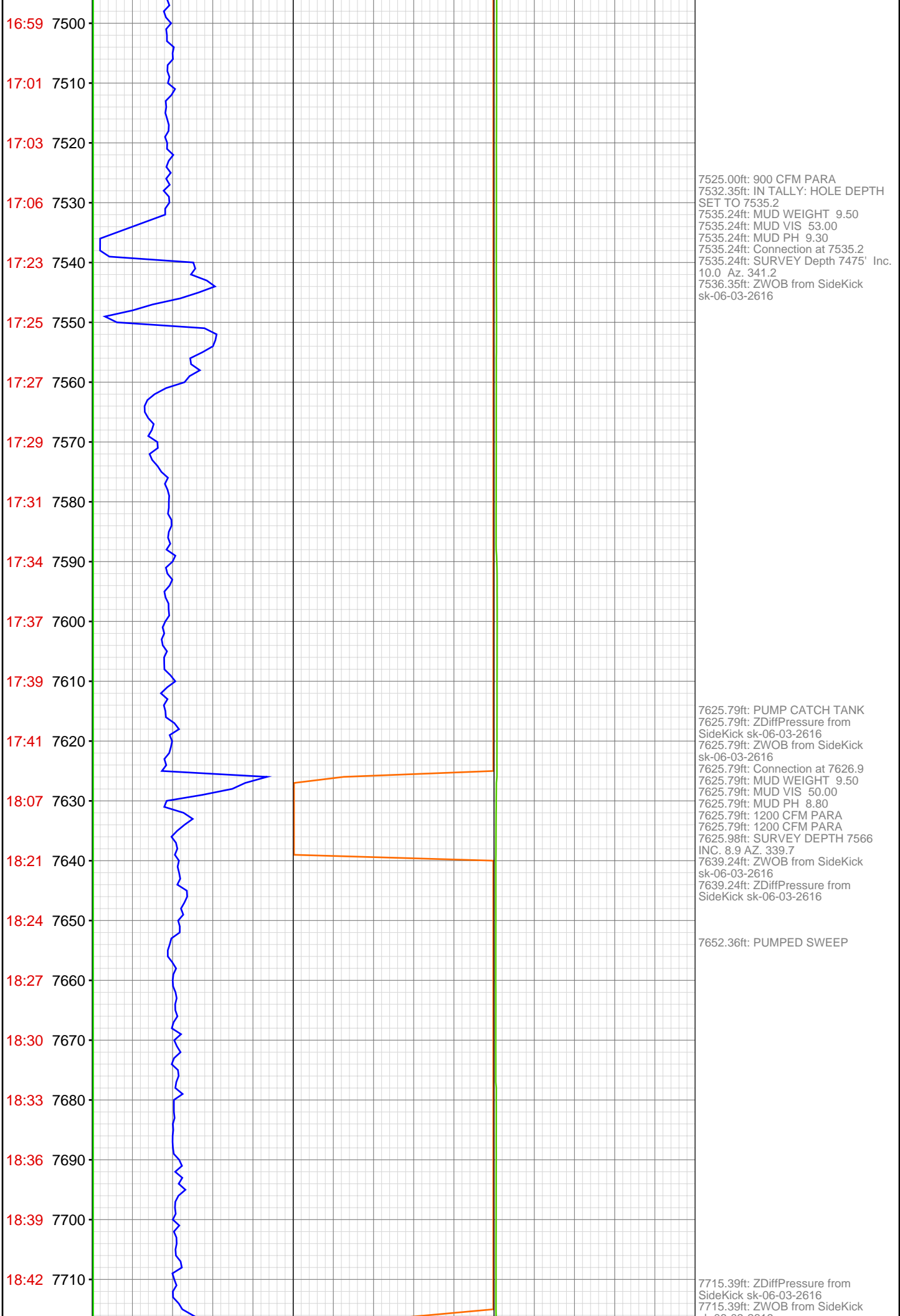


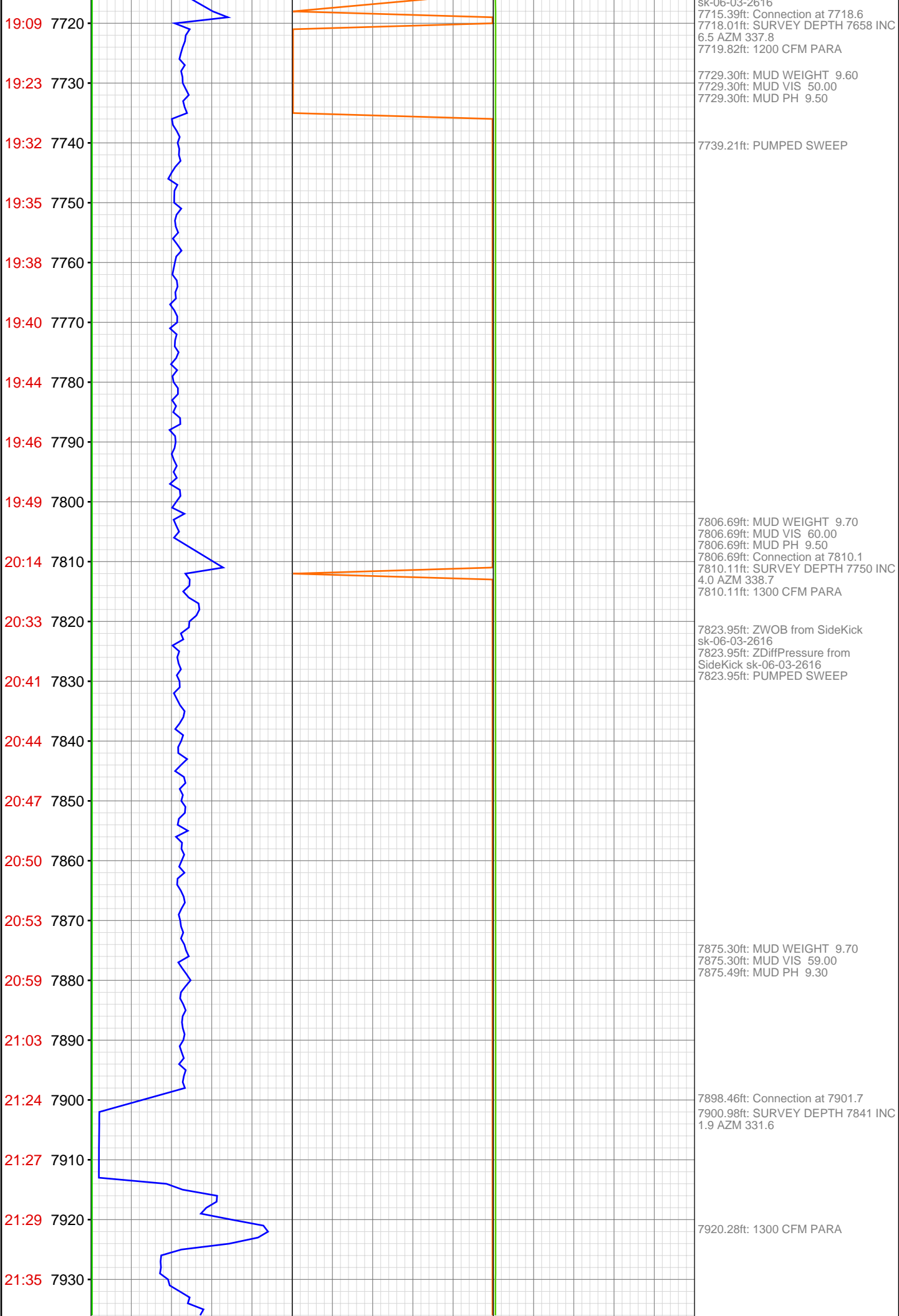


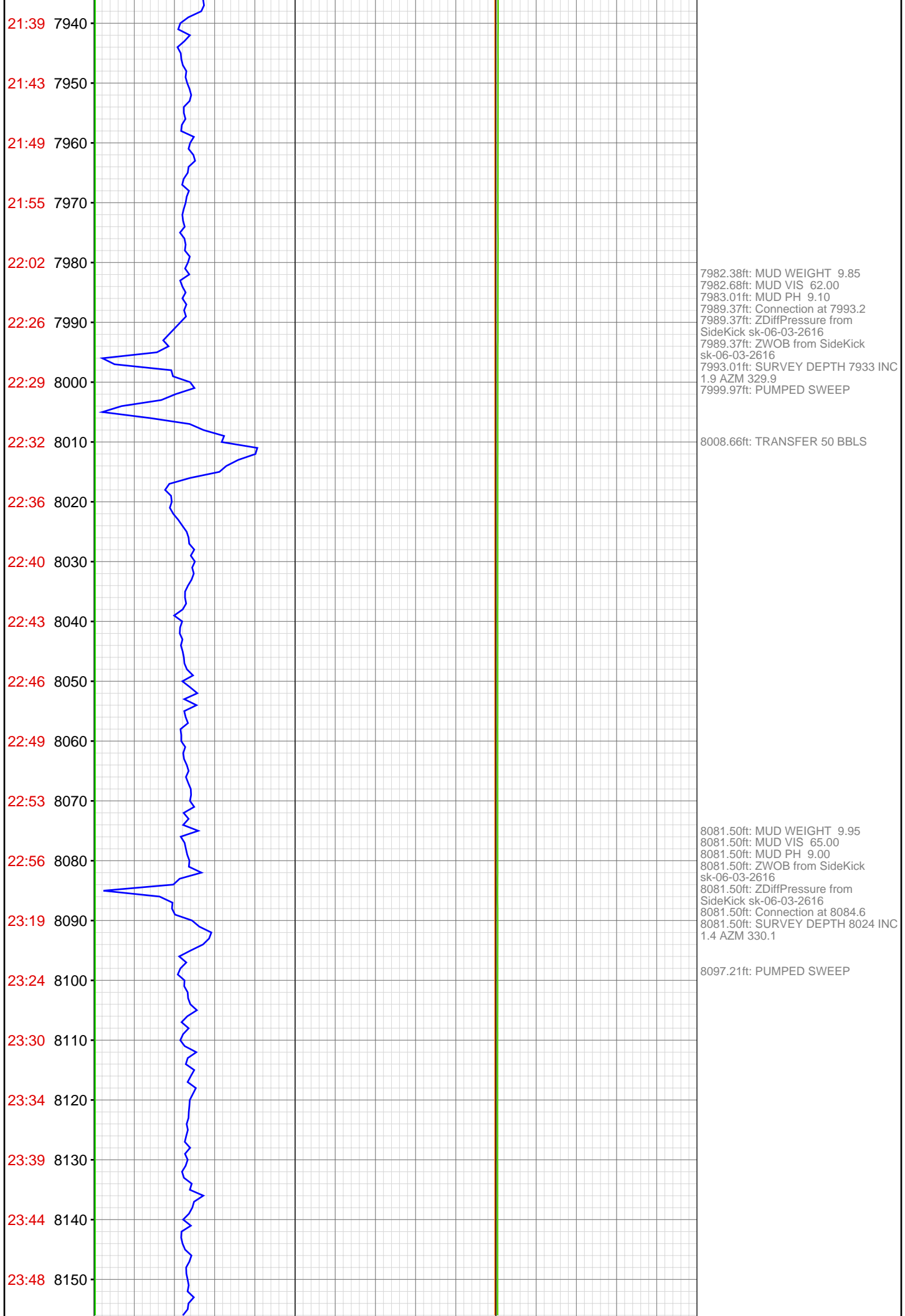


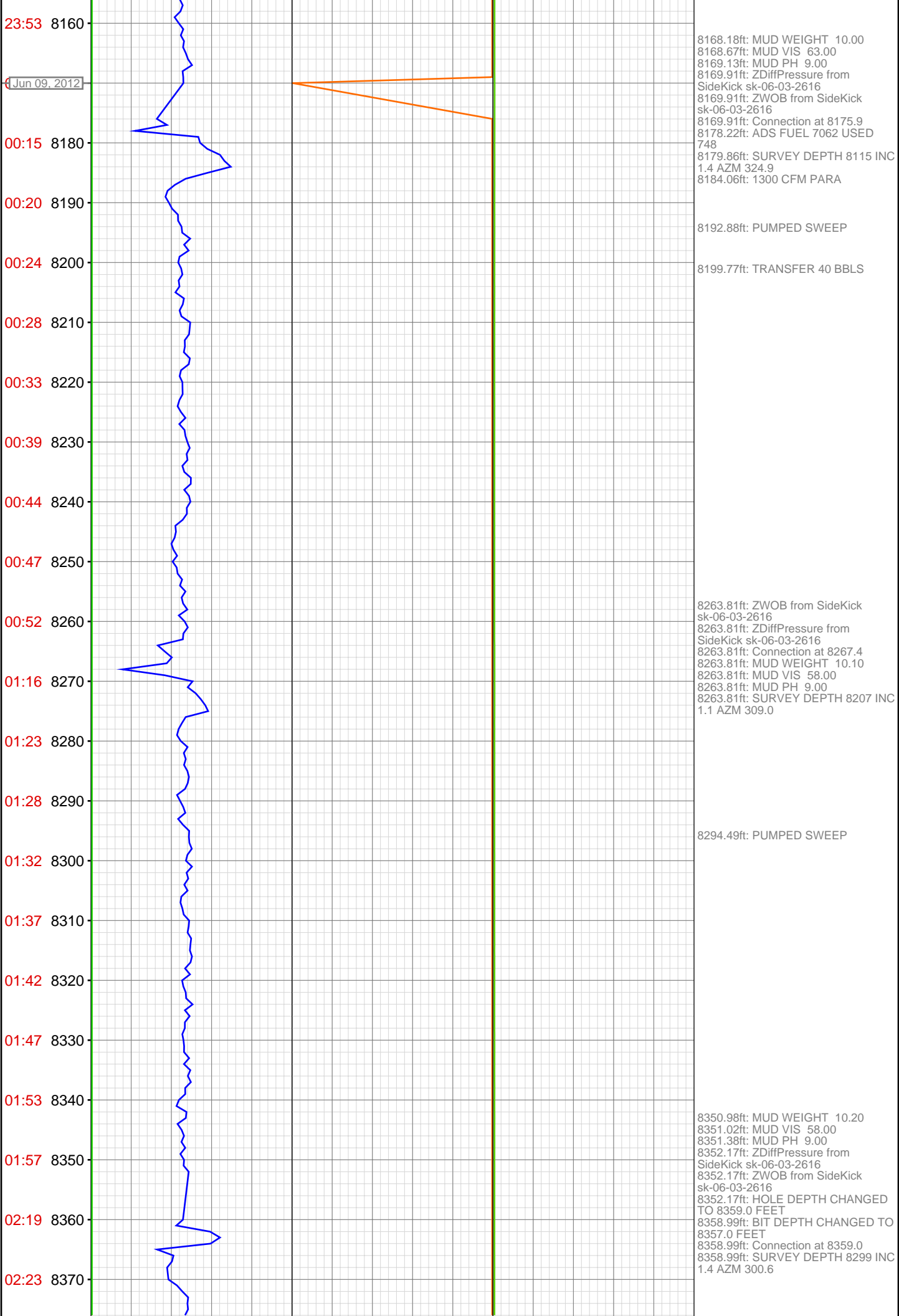


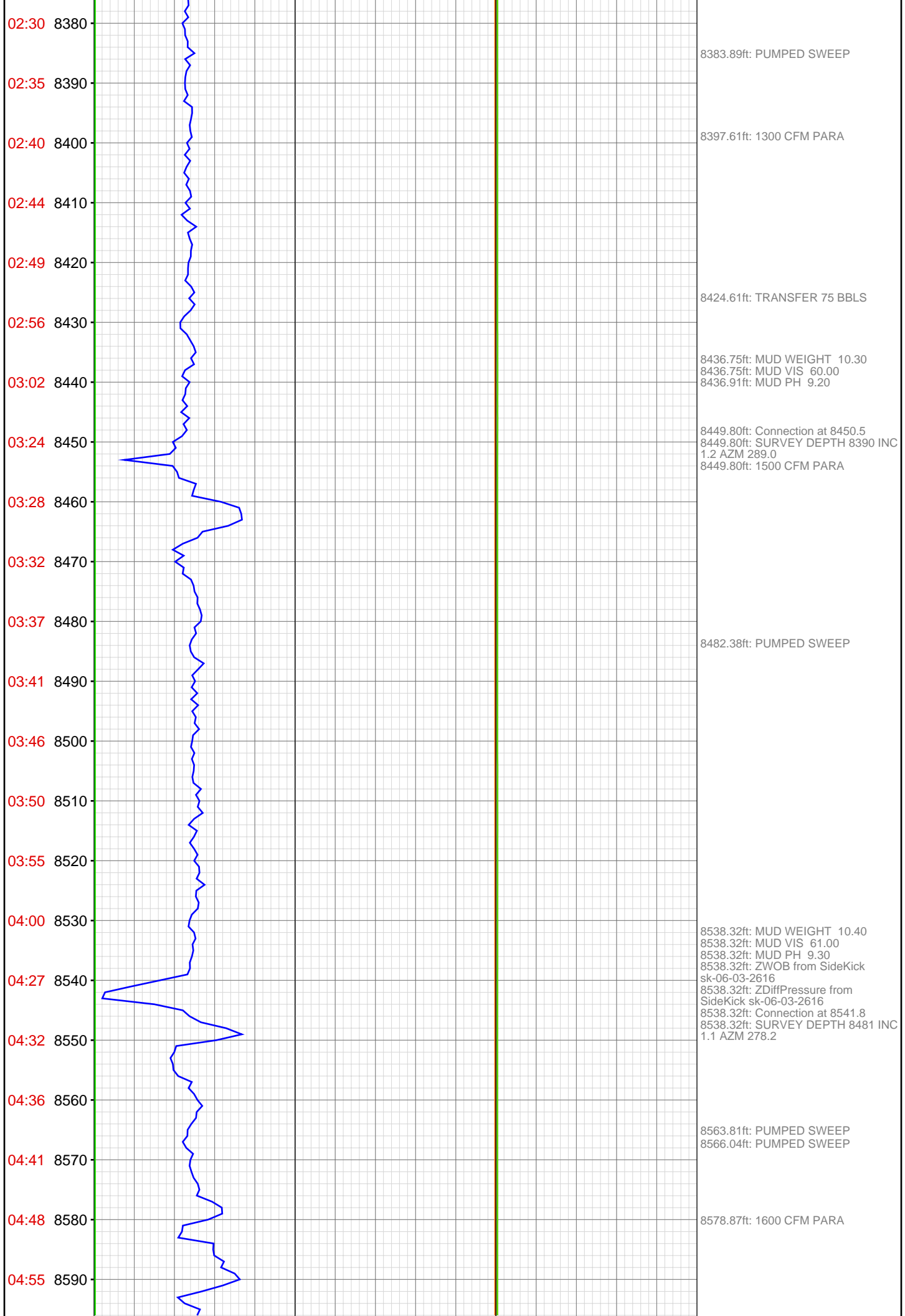


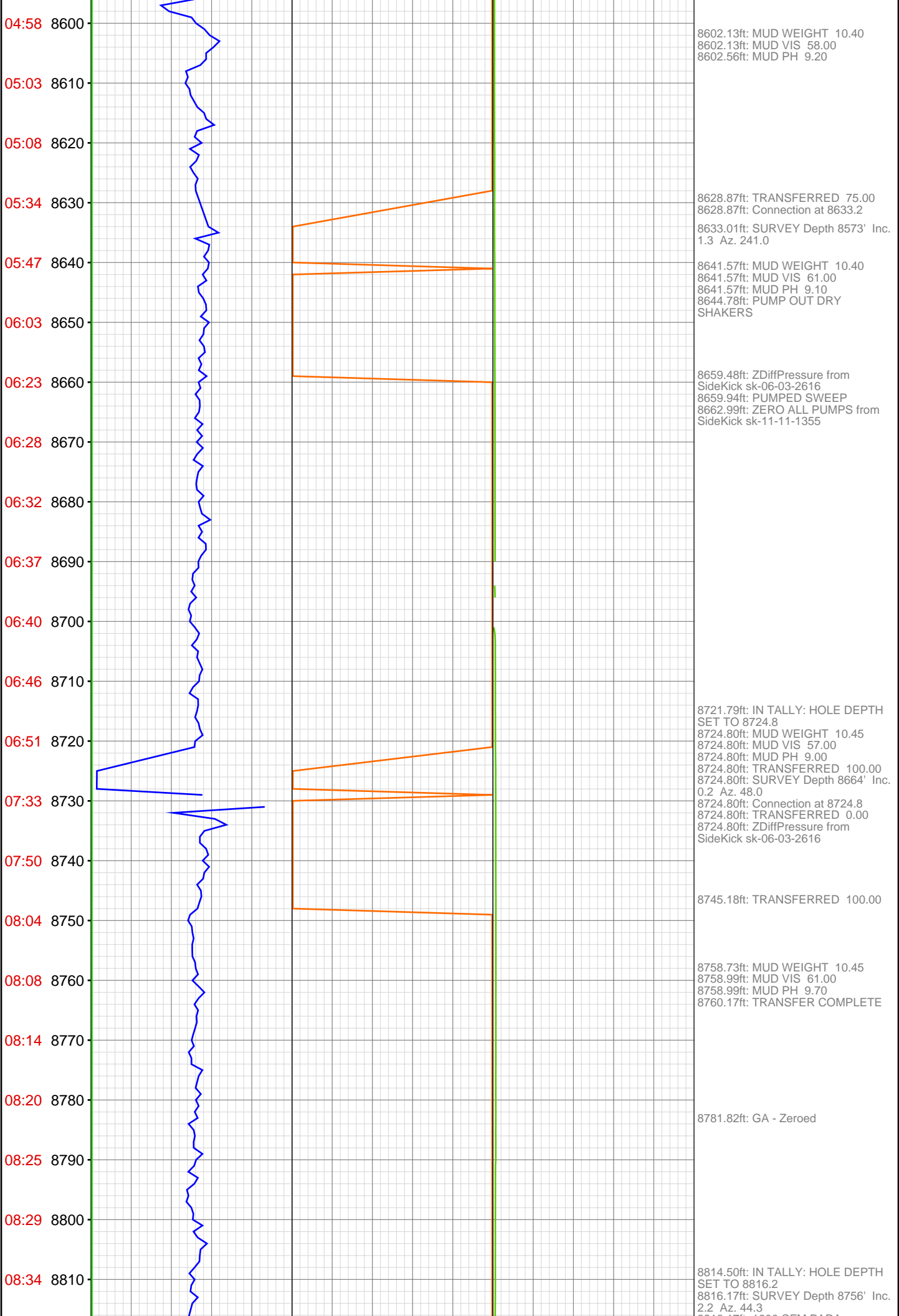




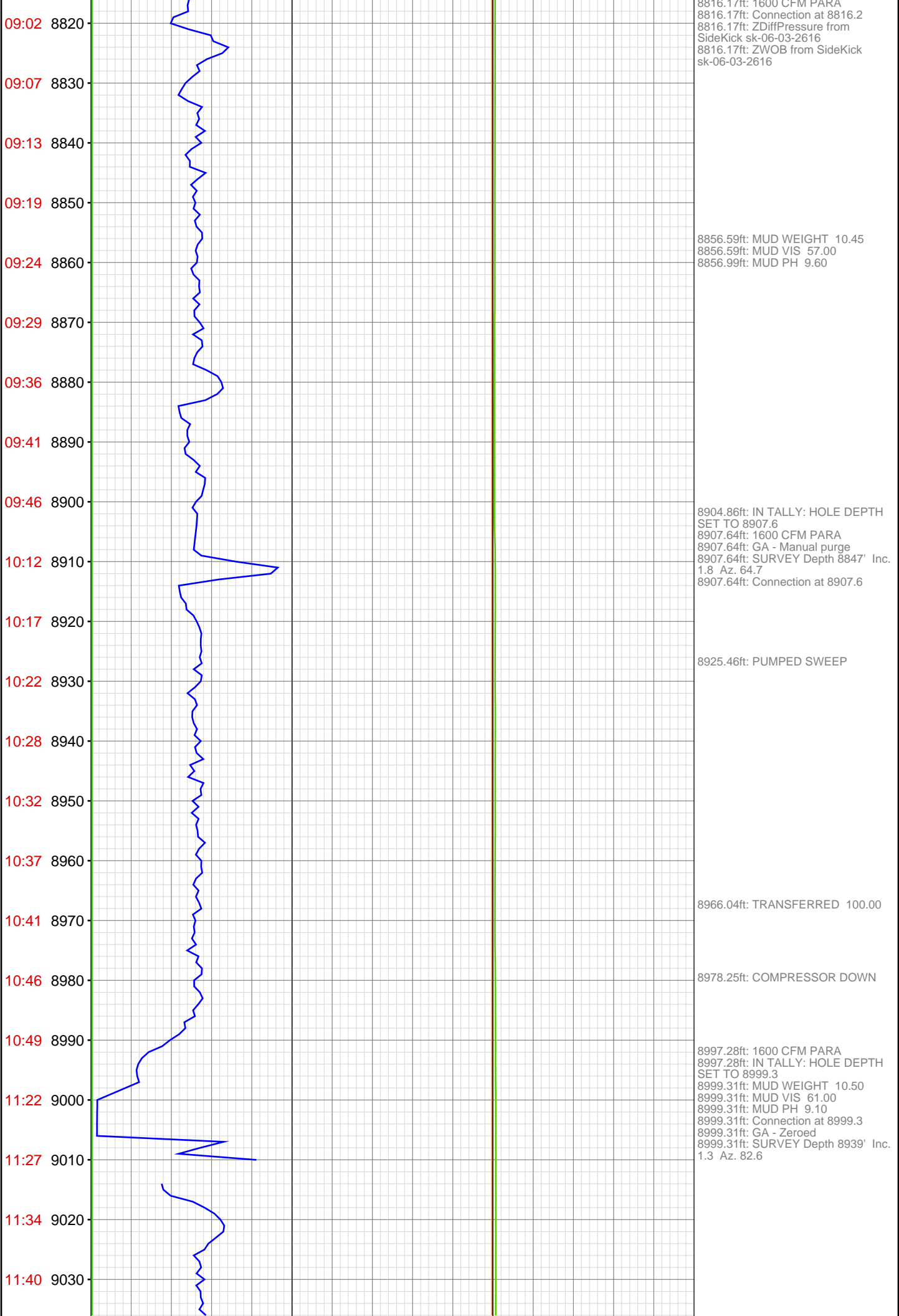


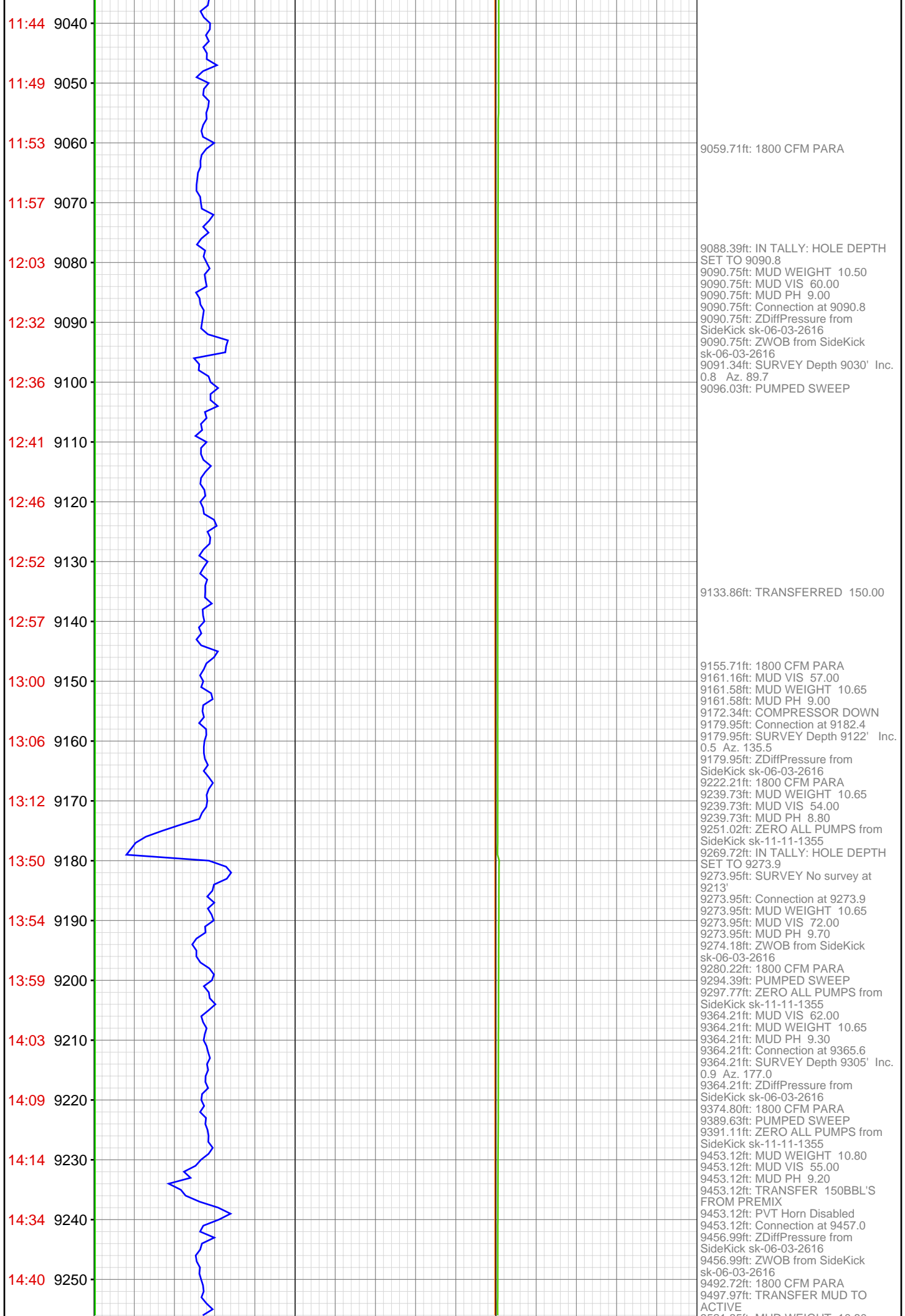


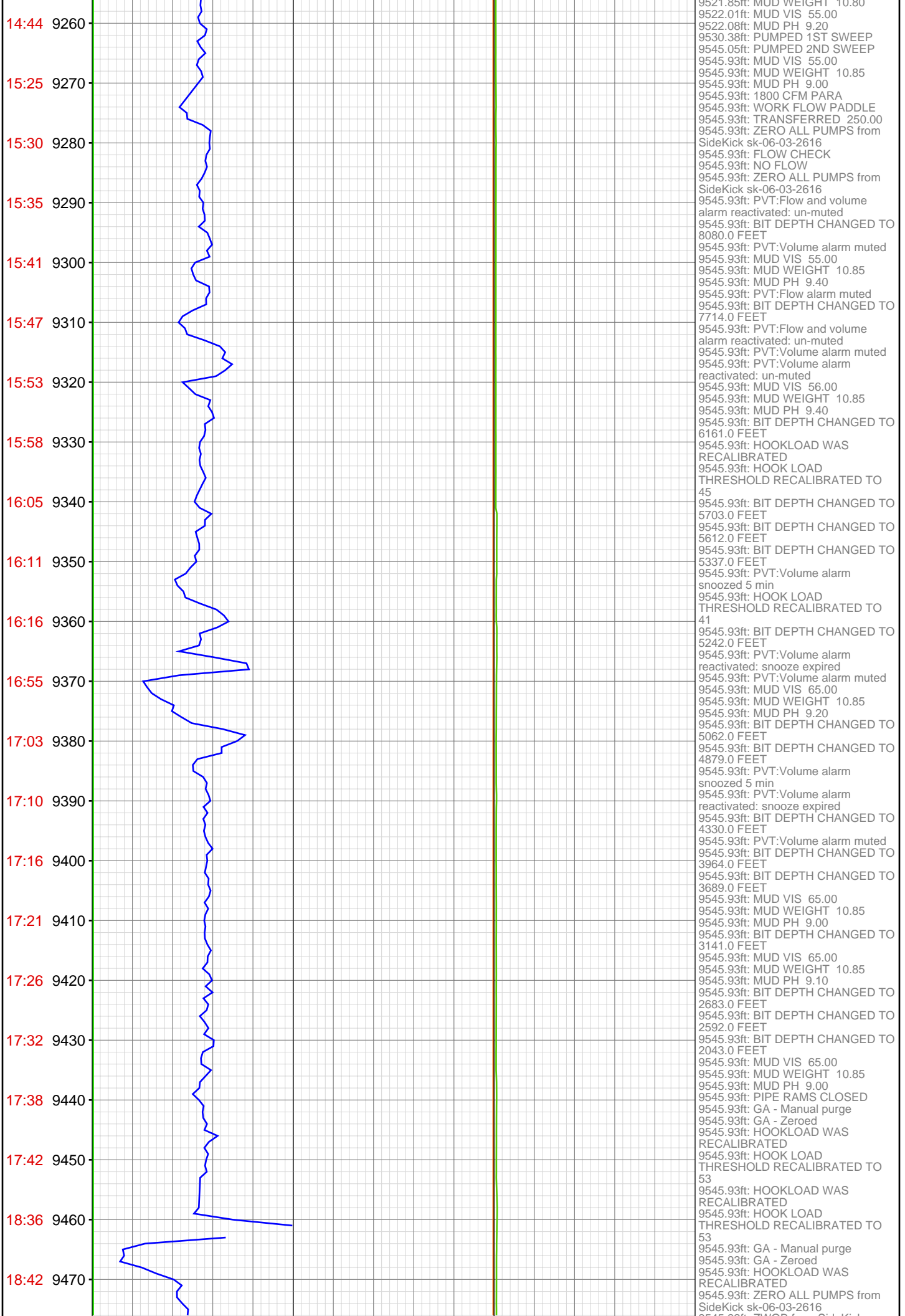




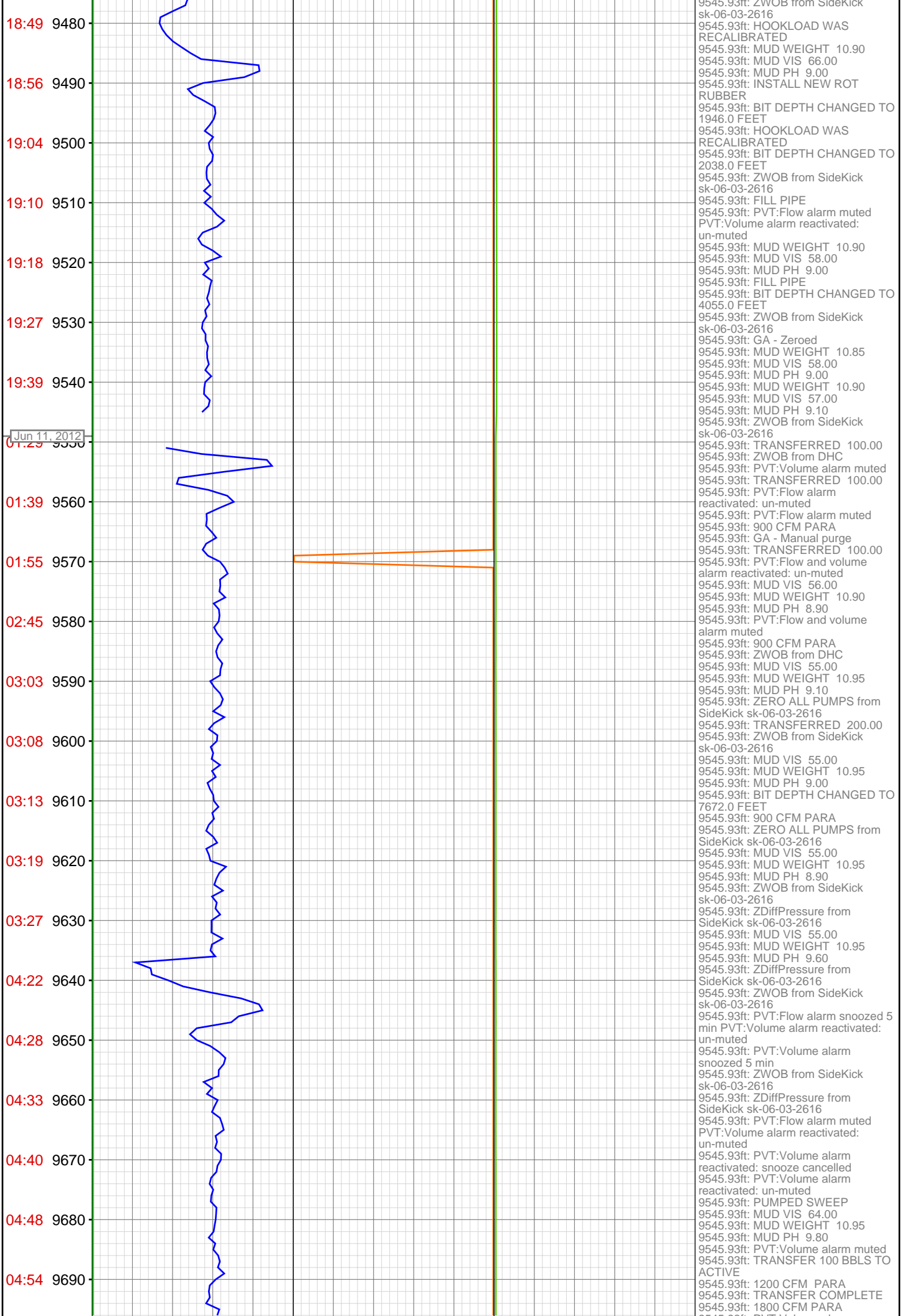


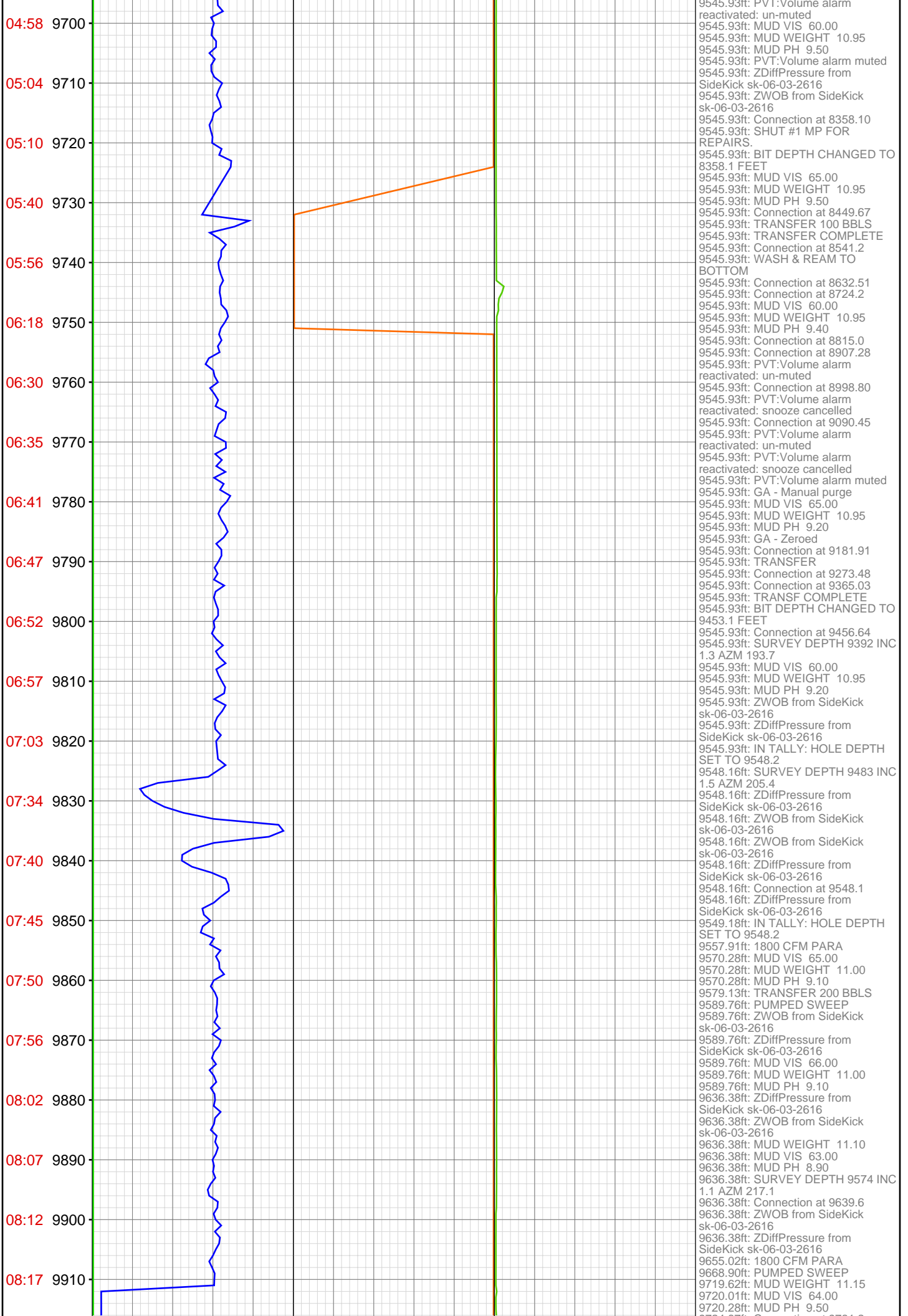




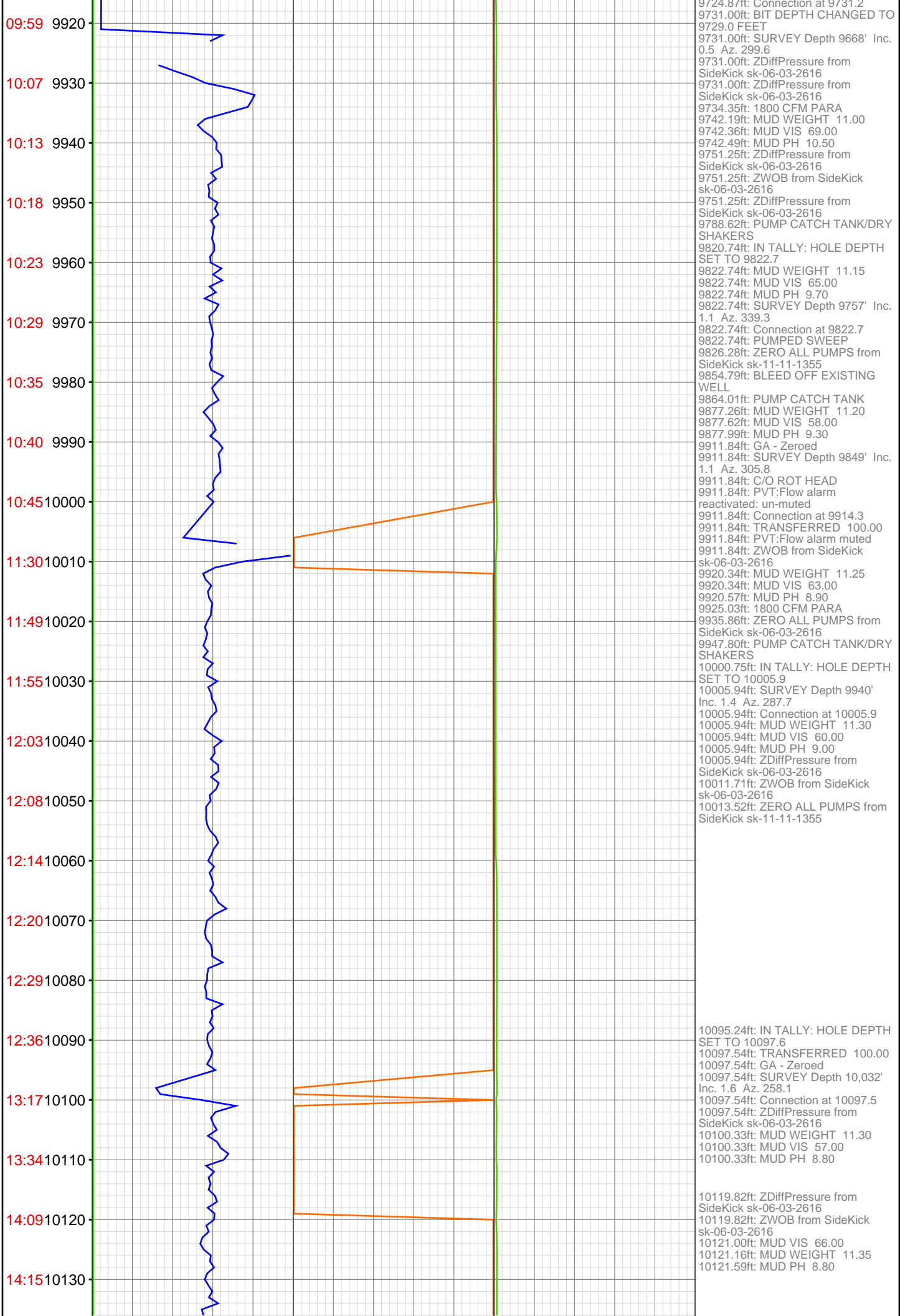


9521.85ft: MUD WEIGHT 10.80  
9522.01ft: MUD VIS 55.00  
9522.08ft: MUD PH 9.20  
9530.38ft: PUMPED 1ST SWEEP  
9545.05ft: PUMPED 2ND SWEEP  
9545.93ft: MUD VIS 55.00  
9545.93ft: MUD WEIGHT 10.85  
9545.93ft: MUD PH 9.00  
9545.93ft: 1800 CFM PARA  
9545.93ft: WORK FLOW PADDLE  
9545.93ft: TRANSFERRED 250.00  
9545.93ft: ZERO ALL PUMPS from  
SideKick sk-06-03-2616  
9545.93ft: FLOW CHECK  
9545.93ft: NO FLOW  
9545.93ft: ZERO ALL PUMPS from  
SideKick sk-06-03-2616  
9545.93ft: PVT:Flow and volume  
alarm reactivated: un-muted  
9545.93ft: BIT DEPTH CHANGED TO  
8080.0 FEET  
9545.93ft: PVT:Volume alarm muted  
9545.93ft: MUD VIS 55.00  
9545.93ft: MUD WEIGHT 10.85  
9545.93ft: MUD PH 9.40  
9545.93ft: PVT:Flow alarm muted  
9545.93ft: BIT DEPTH CHANGED TO  
7714.0 FEET  
9545.93ft: PVT:Flow and volume  
alarm reactivated: un-muted  
9545.93ft: PVT:Volume alarm muted  
9545.93ft: PVT:Volume alarm  
reactivated: un-muted  
9545.93ft: MUD VIS 56.00  
9545.93ft: MUD WEIGHT 10.85  
9545.93ft: MUD PH 9.40  
9545.93ft: BIT DEPTH CHANGED TO  
6161.0 FEET  
9545.93ft: HOOKLOAD WAS  
RECALIBRATED  
9545.93ft: HOOK LOAD  
THRESHOLD RECALIBRATED TO  
45  
9545.93ft: BIT DEPTH CHANGED TO  
5703.0 FEET  
9545.93ft: BIT DEPTH CHANGED TO  
5612.0 FEET  
9545.93ft: BIT DEPTH CHANGED TO  
5337.0 FEET  
9545.93ft: PVT:Volume alarm  
snoozed 5 min  
9545.93ft: HOOK LOAD  
THRESHOLD RECALIBRATED TO  
41  
9545.93ft: BIT DEPTH CHANGED TO  
5242.0 FEET  
9545.93ft: PVT:Volume alarm  
reactivated: snooze expired  
9545.93ft: PVT:Volume alarm muted  
9545.93ft: MUD VIS 65.00  
9545.93ft: MUD WEIGHT 10.85  
9545.93ft: MUD PH 9.20  
9545.93ft: BIT DEPTH CHANGED TO  
5062.0 FEET  
9545.93ft: BIT DEPTH CHANGED TO  
4879.0 FEET  
9545.93ft: PVT:Volume alarm  
snoozed 5 min  
9545.93ft: PVT:Volume alarm  
reactivated: snooze expired  
9545.93ft: BIT DEPTH CHANGED TO  
4330.0 FEET  
9545.93ft: PVT:Volume alarm muted  
9545.93ft: BIT DEPTH CHANGED TO  
3964.0 FEET  
9545.93ft: BIT DEPTH CHANGED TO  
3689.0 FEET  
9545.93ft: MUD VIS 65.00  
9545.93ft: MUD WEIGHT 10.85  
9545.93ft: MUD PH 9.00  
9545.93ft: BIT DEPTH CHANGED TO  
3141.0 FEET  
9545.93ft: MUD VIS 65.00  
9545.93ft: MUD WEIGHT 10.85  
9545.93ft: MUD PH 9.10  
9545.93ft: BIT DEPTH CHANGED TO  
2683.0 FEET  
9545.93ft: BIT DEPTH CHANGED TO  
2592.0 FEET  
9545.93ft: BIT DEPTH CHANGED TO  
2043.0 FEET  
9545.93ft: MUD VIS 65.00  
9545.93ft: MUD WEIGHT 10.85  
9545.93ft: MUD PH 9.00  
9545.93ft: PIPE RAMS CLOSED  
9545.93ft: GA - Manual purge  
9545.93ft: GA - Zeroed  
9545.93ft: HOOKLOAD WAS  
RECALIBRATED  
9545.93ft: HOOK LOAD  
THRESHOLD RECALIBRATED TO  
53  
9545.93ft: HOOKLOAD WAS  
RECALIBRATED  
9545.93ft: HOOK LOAD  
THRESHOLD RECALIBRATED TO  
53  
9545.93ft: GA - Manual purge  
9545.93ft: GA - Zeroed  
9545.93ft: HOOKLOAD WAS  
RECALIBRATED  
9545.93ft: ZERO ALL PUMPS from  
SideKick sk-06-03-2616









14:20 10140  
14:25 10150  
14:30 10160  
14:36 10170  
14:41 10180  
15:23 10190  
15:44 10200  
16:11 10210  
16:19 10220  
16:24 10230  
16:29 10240  
16:34 10250  
16:41 10260  
16:46 10270  
17:36 10280  
17:44 10290  
17:49 10300  
17:55 10310  
18:00 10320  
18:07 10330  
18:13 10340  
18:19 10350



10186.58ft: GA - Zeroed  
10186.58ft: TRANSFERRED 150.00  
10186.58ft: 1800 CFM PARA  
10186.58ft: MUD WEIGHT 11.30  
10186.58ft: MUD VIS 57.00  
10186.58ft: MUD PH 9.10  
10186.58ft: SURVEY Depth 10,124'  
Inc. 0.4 Az. 268.1  
10186.58ft: Connection at 10189.1  
10186.58ft: ZDiffPressure from  
SideKick sk-06-03-2616  
10186.58ft: ZDiffPressure from  
SideKick sk-06-03-2616  
10190.29ft: Connection at 10280.4  
10191.11ft: TRANSF COMPLETE  
10206.86ft: 1800 CFM PARA  
10209.06ft: MUD WEIGHT 11.30  
10209.15ft: MUD VIS 65.00  
10209.15ft: MUD PH 9.30  
10210.11ft: PUMPED SWEEP  
10214.57ft: ZERO ALL PUMPS from  
SideKick sk-11-11-1355

10222.41ft: TRANFER OUT 50BBLS

10275.79ft: IN TALLY: HOLE DEPTH  
SET TO 10280.4  
10280.38ft: RIG SERVICE  
10280.38ft: SURVEY Depth 10,215'  
Inc. 1.1 Az. 58.7  
10280.38ft: 1800 CFM PARA

10340.06ft: MUD WEIGHT 11.40  
10340.06ft: MUD VIS 55.00  
10340.35ft: MUD PH 8.80

18:26 10360  
18:58 10370  
19:38 10380  
20:11 10390  
20:15 10400  
20:20 10410  
20:24 10420  
20:29 10430  
20:34 10440  
20:38 10450  
21:10 10460  
21:13 10470  
21:17 10480  
21:23 10490  
21:28 10500  
21:34 10510  
21:41 10520  
21:49 10530  
21:58 10540  
22:06 10550  
22:42 10560  
22:49 10570



10369.88ft: Connection at 10372.0  
10369.88ft: SURVEY DEPTH 10307  
INC 0.9 AZM 74.8  
10370.01ft: GA - Zeroed  
10371.52ft: MUD WEIGHT 11.40  
10371.52ft: MUD VIS 57.00  
10371.52ft: MUD PH 9.20

10386.71ft: MUD WEIGHT 11.40  
10386.71ft: MUD VIS 63.00  
10386.71ft: MUD PH 9.20  
10389.99ft: ZWOB from SideKick  
sk-06-03-2616  
10389.99ft: ZWOB from SideKick  
sk-06-03-2616  
10389.99ft: PUMPED SWEEP

10459.42ft: ZWOB from SideKick  
sk-06-03-2616  
10459.42ft: ZDiffPressure from  
SideKick sk-06-03-2616  
10459.42ft: SURVEY DEPTH 10398  
INC 1.7 AZM 43.3  
10459.42ft: Connection at 10463.7  
10462.99ft: ZDiffPressure from  
SideKick sk-06-03-2616  
10462.99ft: ZWOB from SideKick  
sk-06-03-2616

10476.67ft: PUMPED SWEEP  
10479.00ft: MUD WEIGHT 11.40  
10479.00ft: MUD VIS 65.00  
10479.00ft: MUD PH 9.10

10499.67ft: TRANSFER 50 BBLS

10551.51ft: MUD VIS 65.00  
10551.51ft: MUD WEIGHT 11.40  
10551.51ft: MUD PH 8.80  
10551.51ft: 1800 CFM PARA  
10551.51ft: SURVEY DEPTH 10490  
INC 1.1 AZM 11.9  
10551.51ft: Connection at 10555.3  
10551.51ft: ZWOB from SideKick  
sk-06-03-2616  
10551.51ft: ZDiffPressure from  
SideKick sk-06-03-2616



