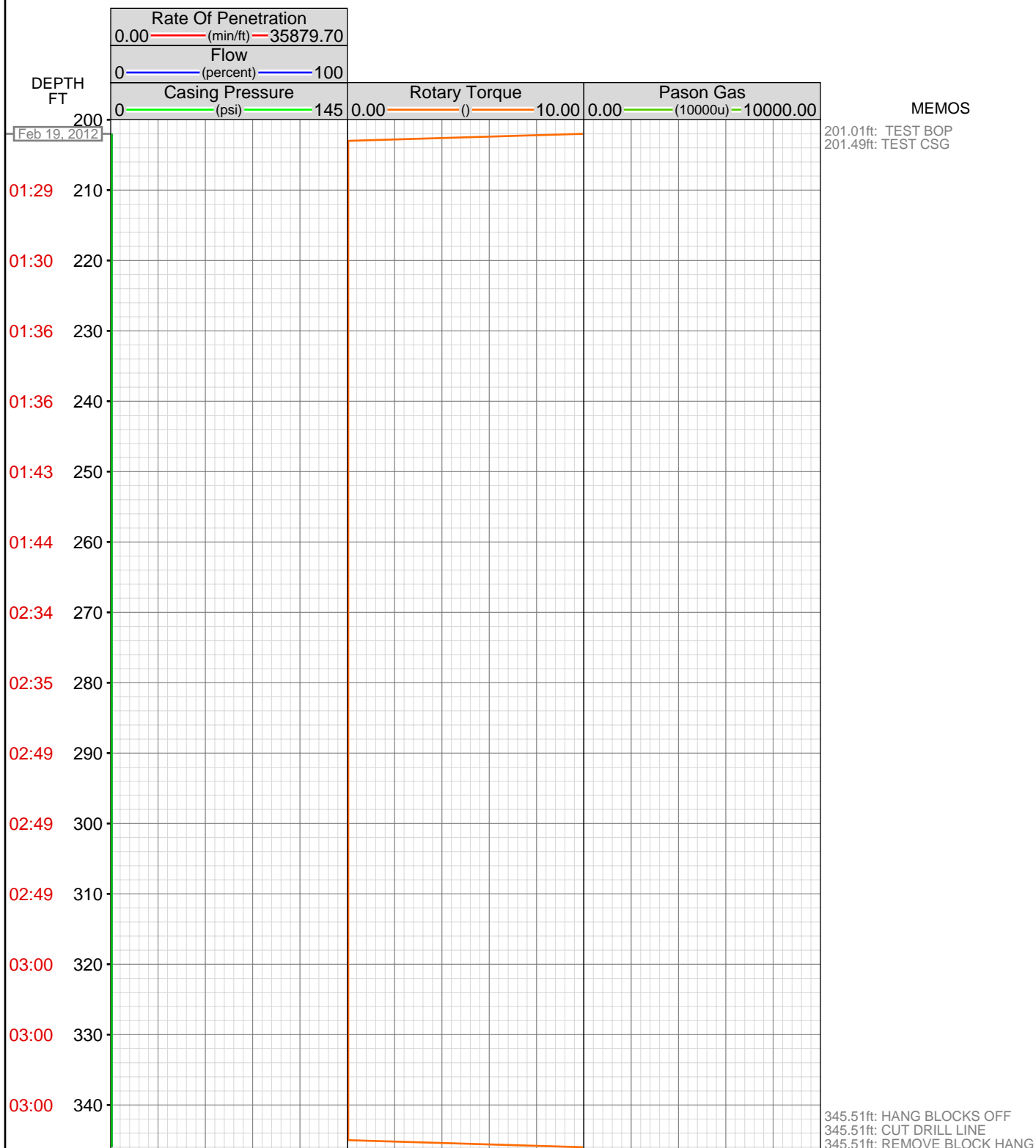


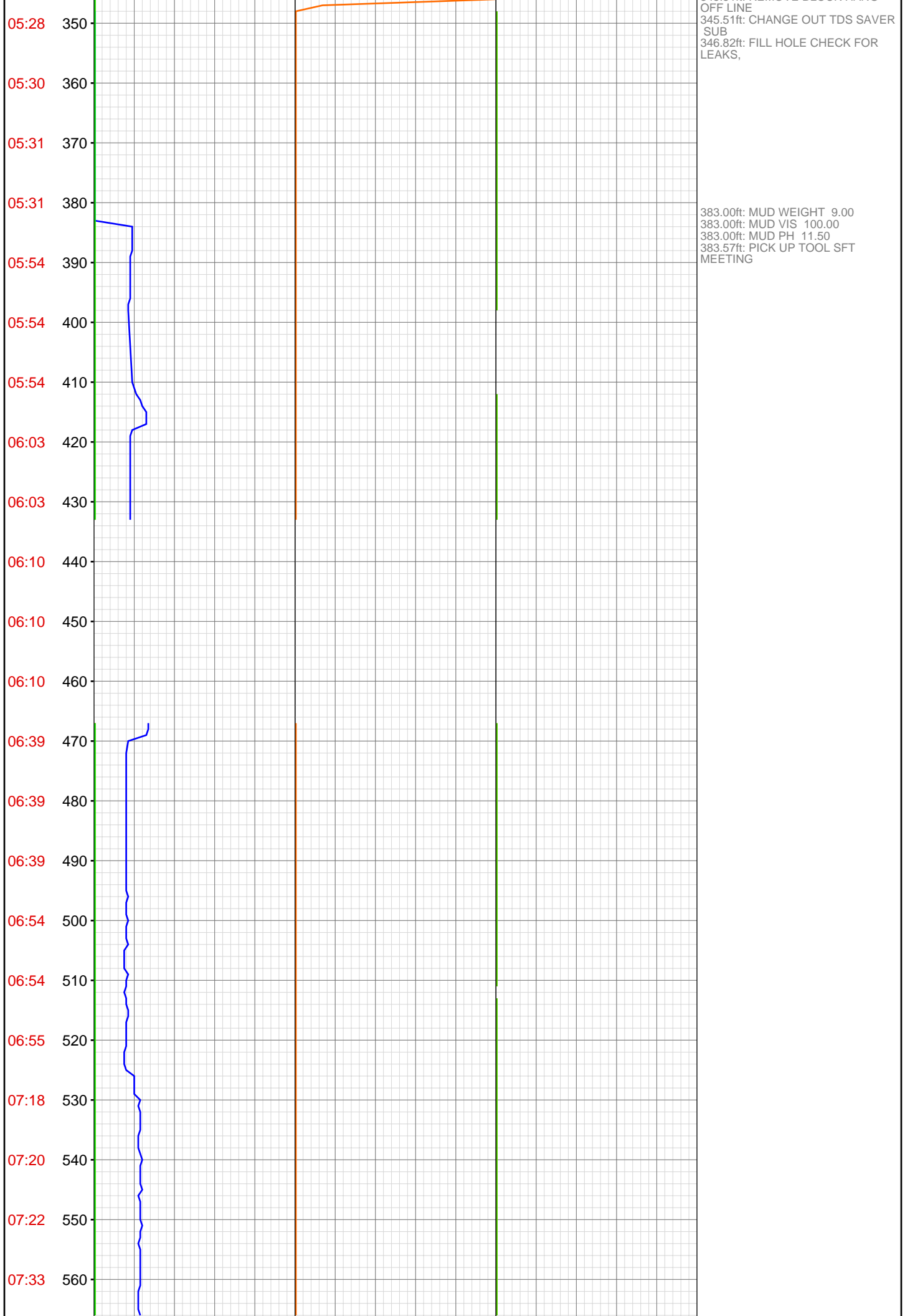
# DataHub EDR Log

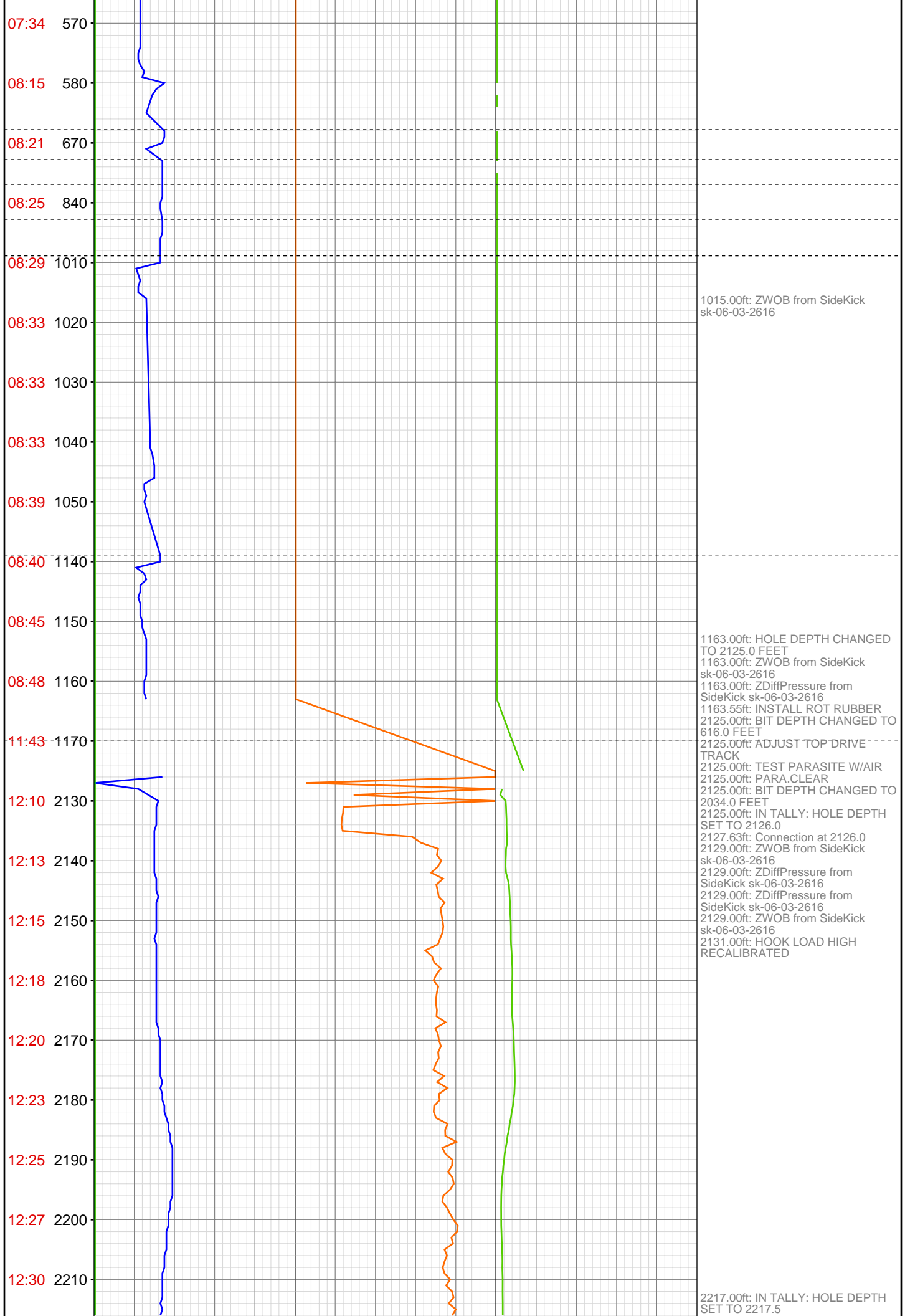
Fri Feb 24, 2012 11:49:08  
Well Dossier 1329579801  
Marilyn Tucker

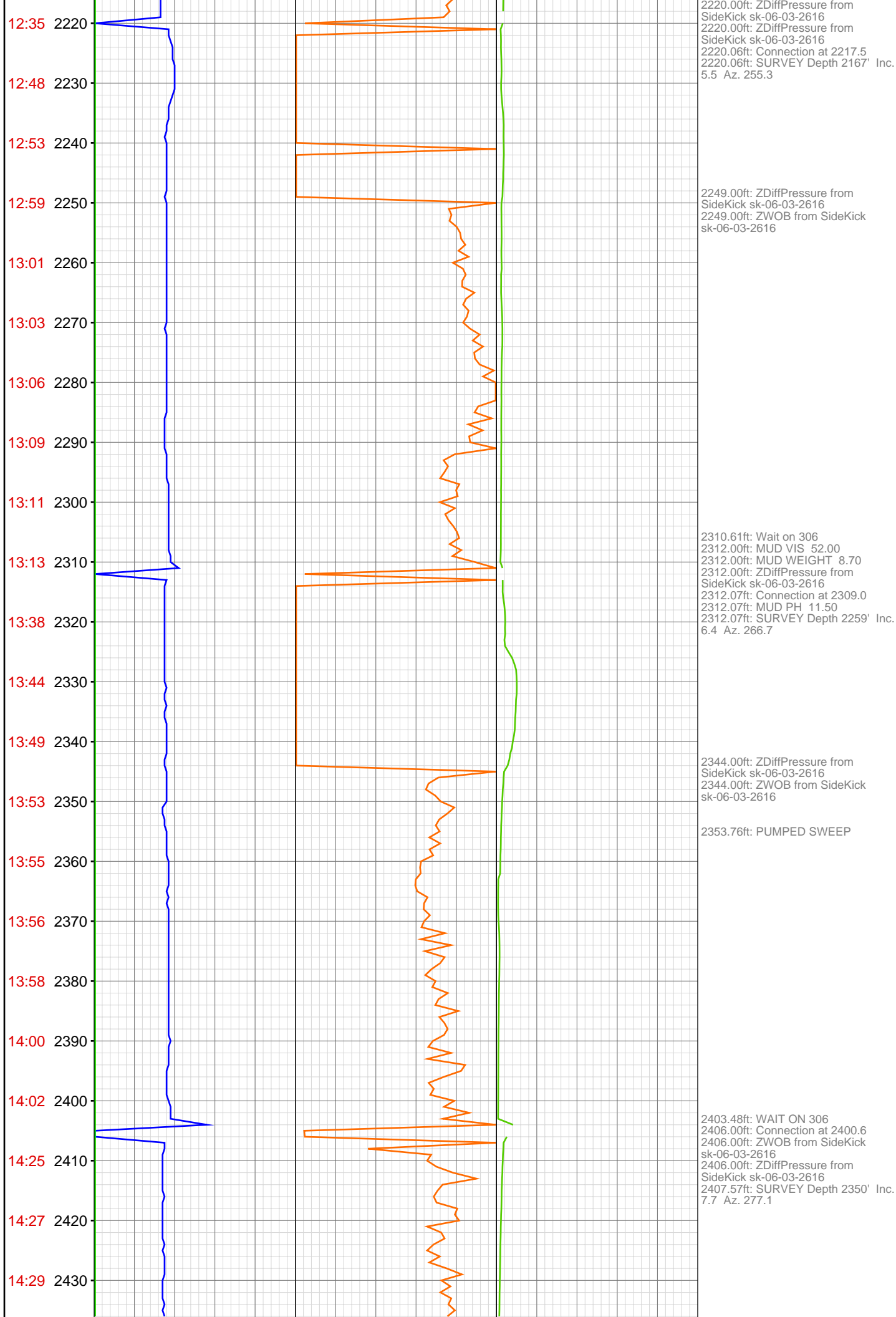
**OPERATOR:** EnCana Oil & Gas (USA), Inc.  
**WELL:** DOUBLE WILLOW 8616C-28 P28 496  
**FIELD:**  
**LOCATION:** SEC.36 T4S RNG 96W  
**COUNTRY:** USA  
**RIG:** Pat-UTI 308

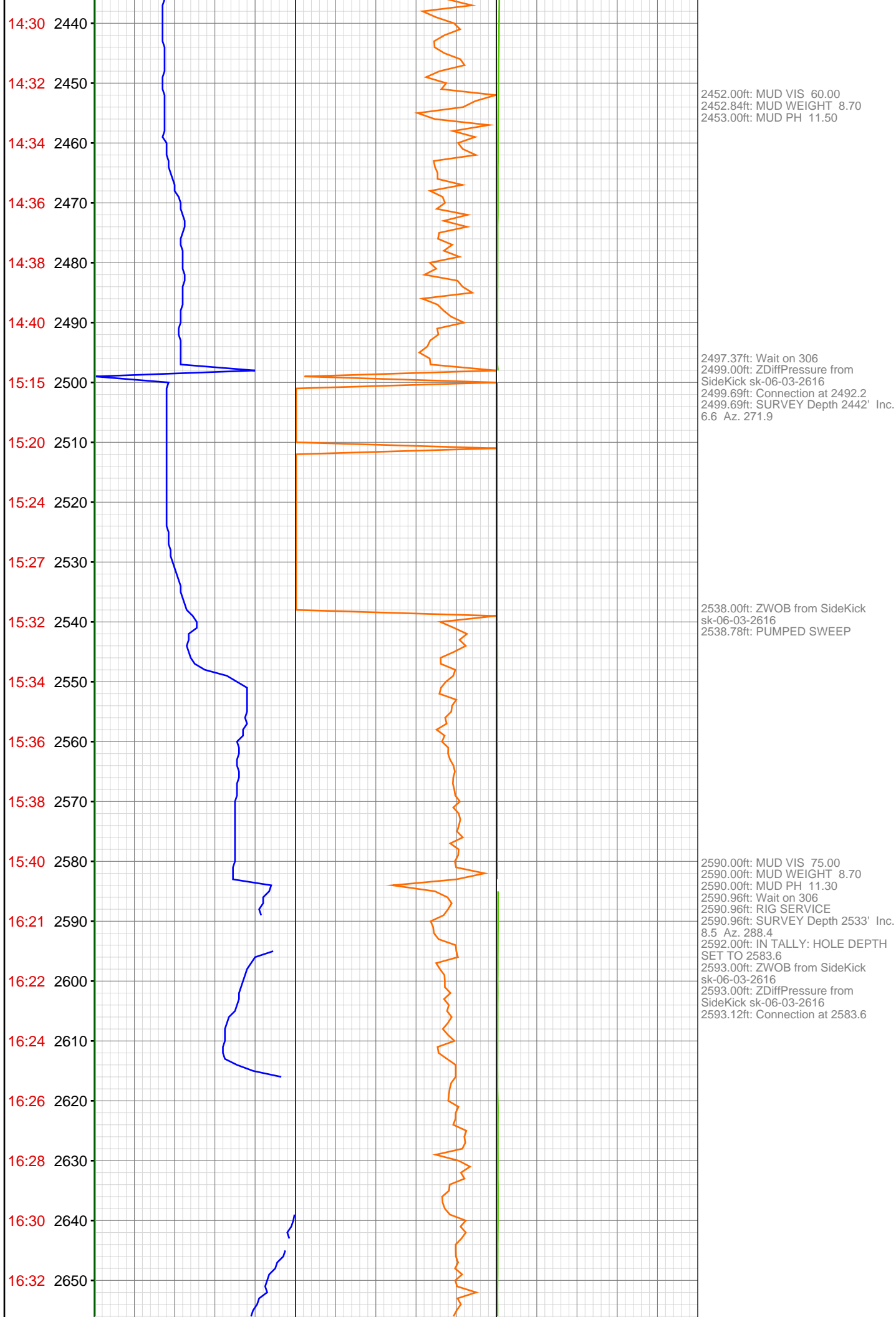
**CONTRACTOR:** Patterson-UTI Drilling Company  
**UNIQUE WELL ID:** 504520805  
**SPUD DATE:** Feb 19, 2012 06:00  
**RELEASE DATE:**

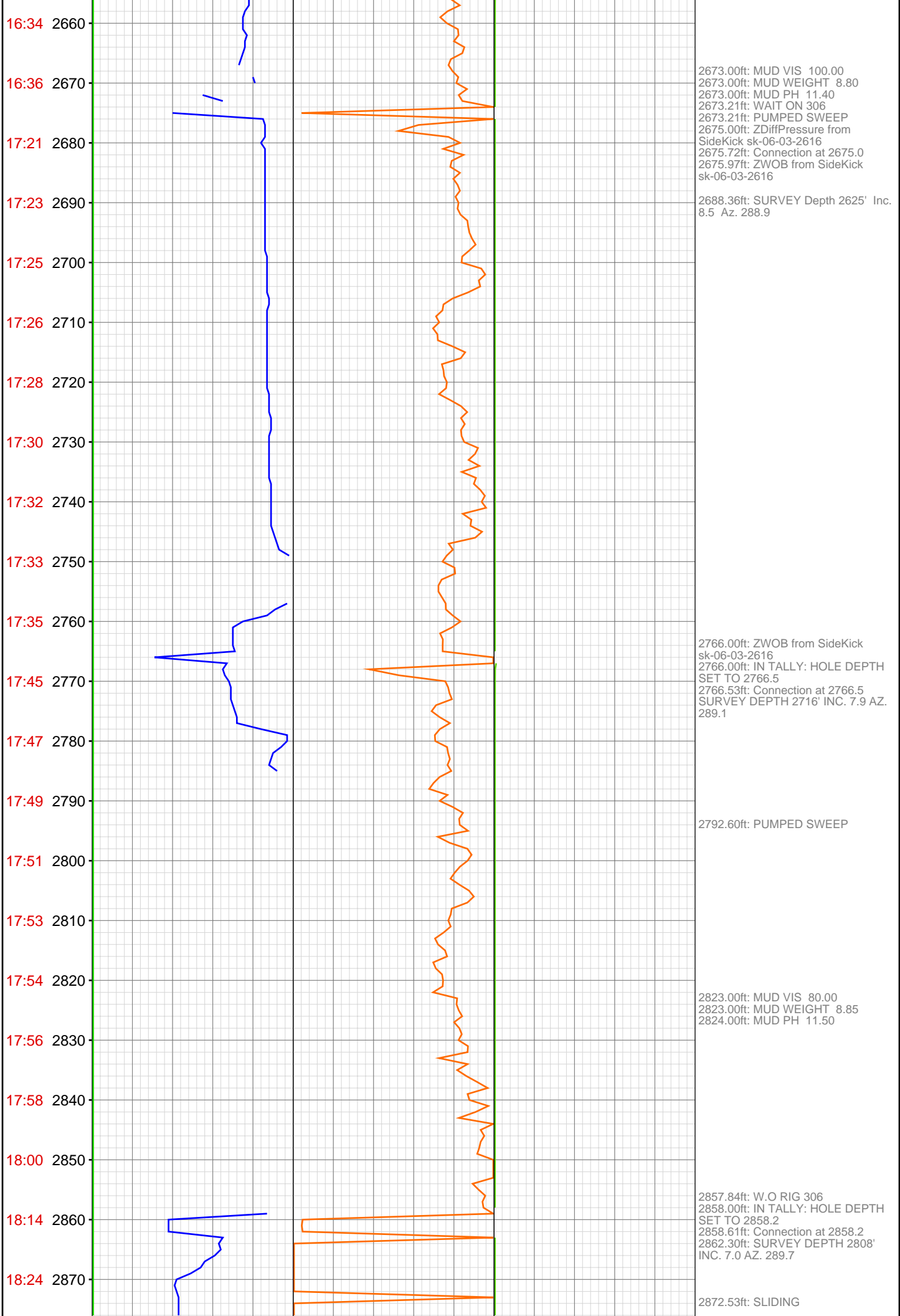


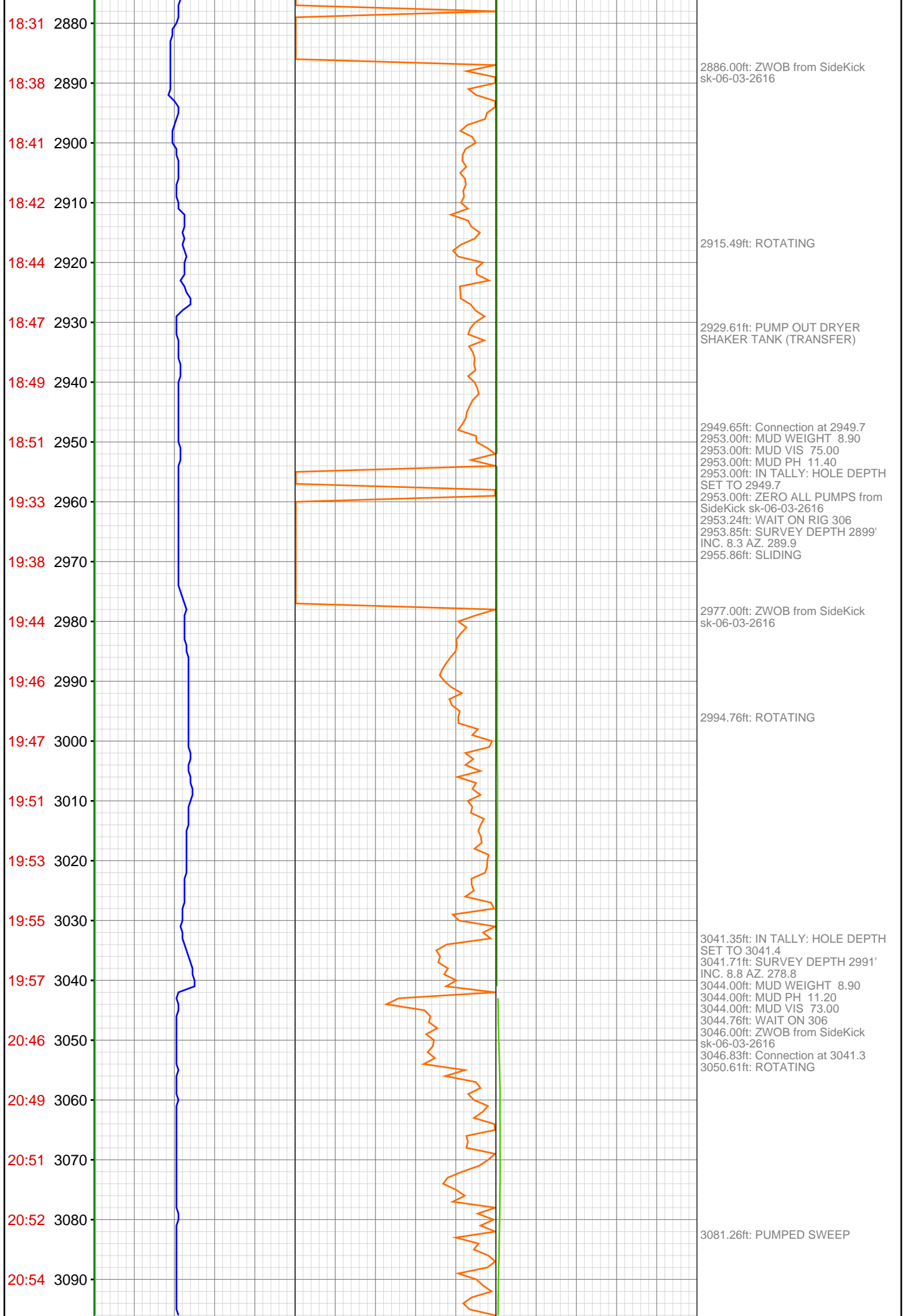


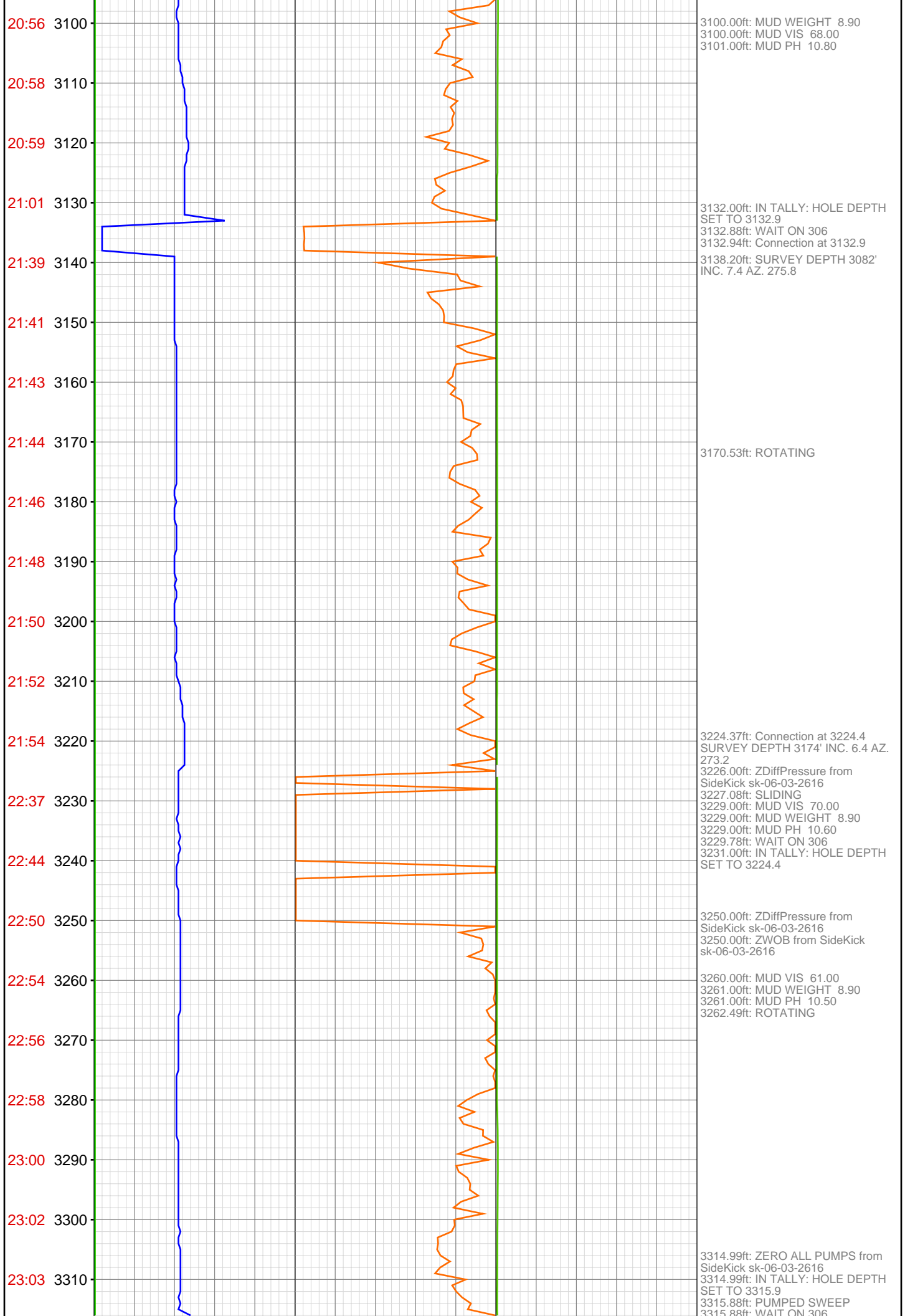




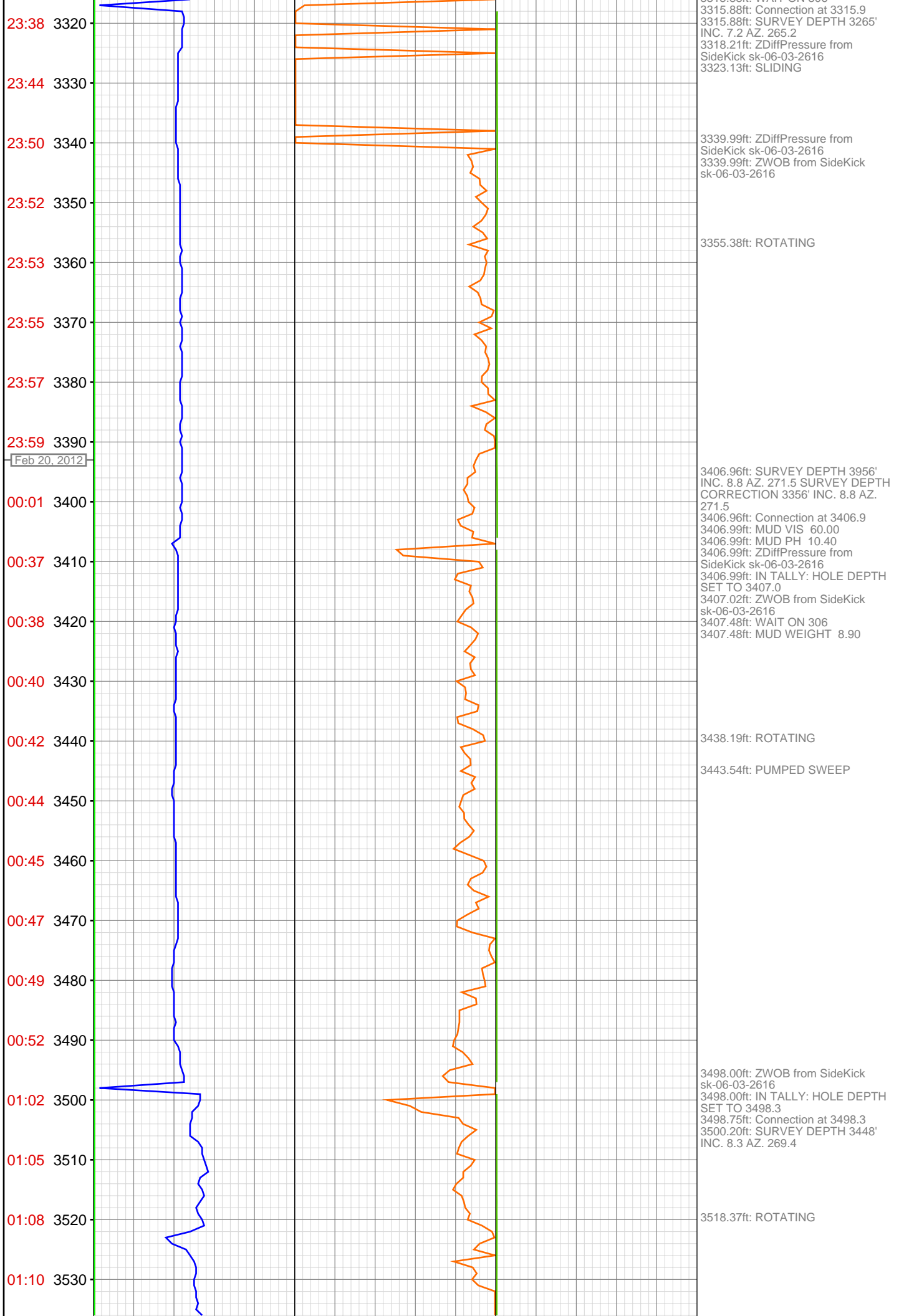


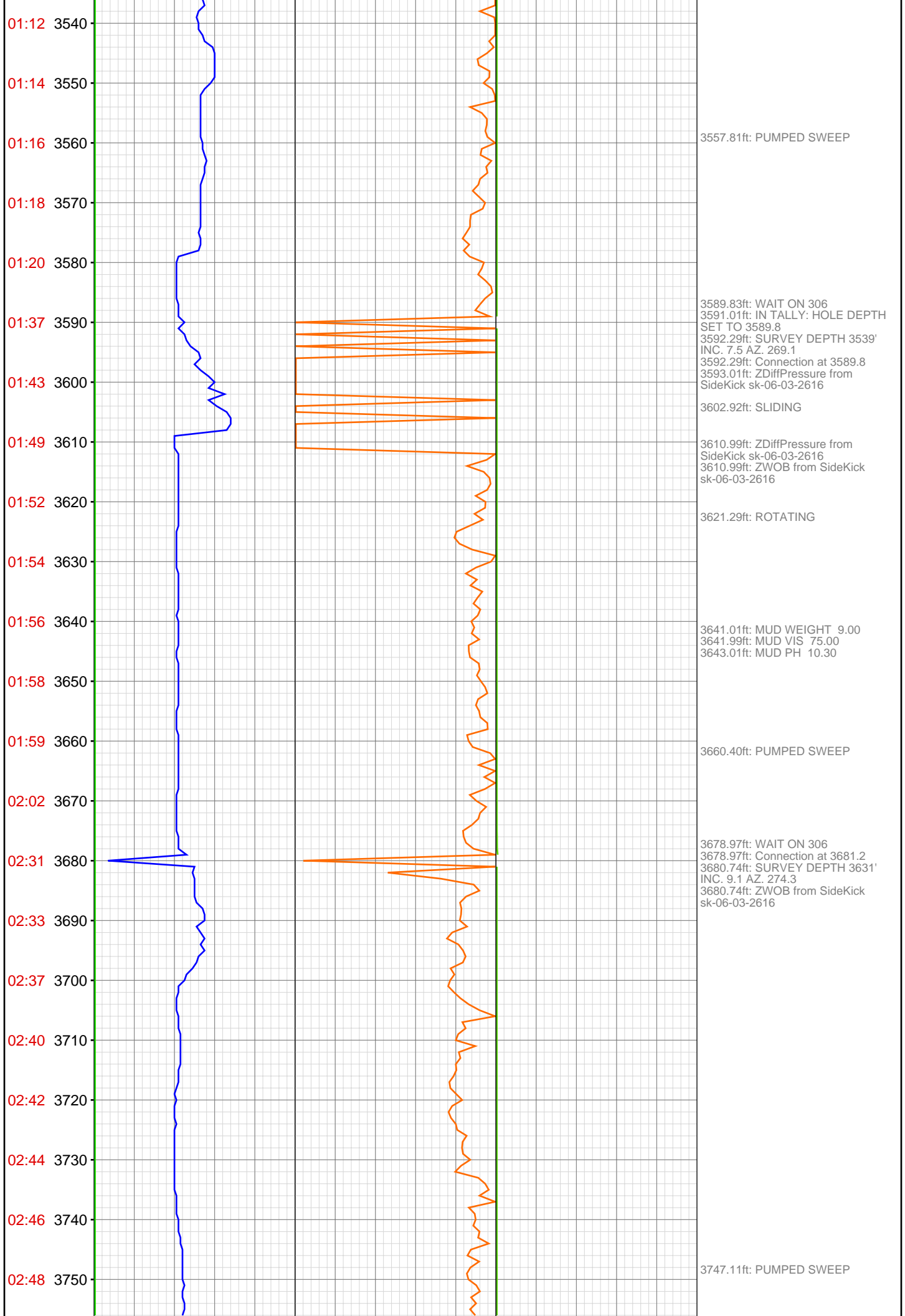


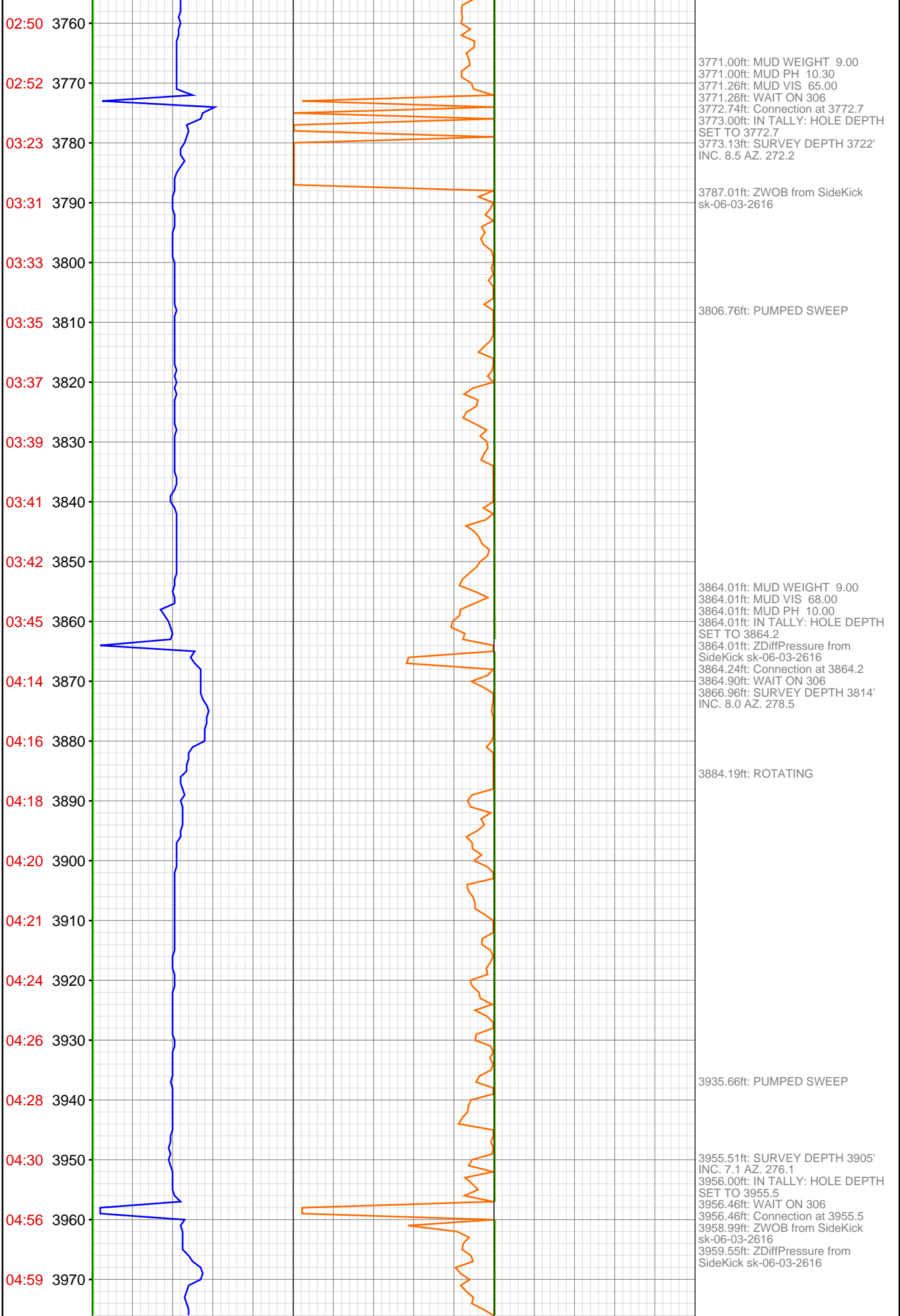


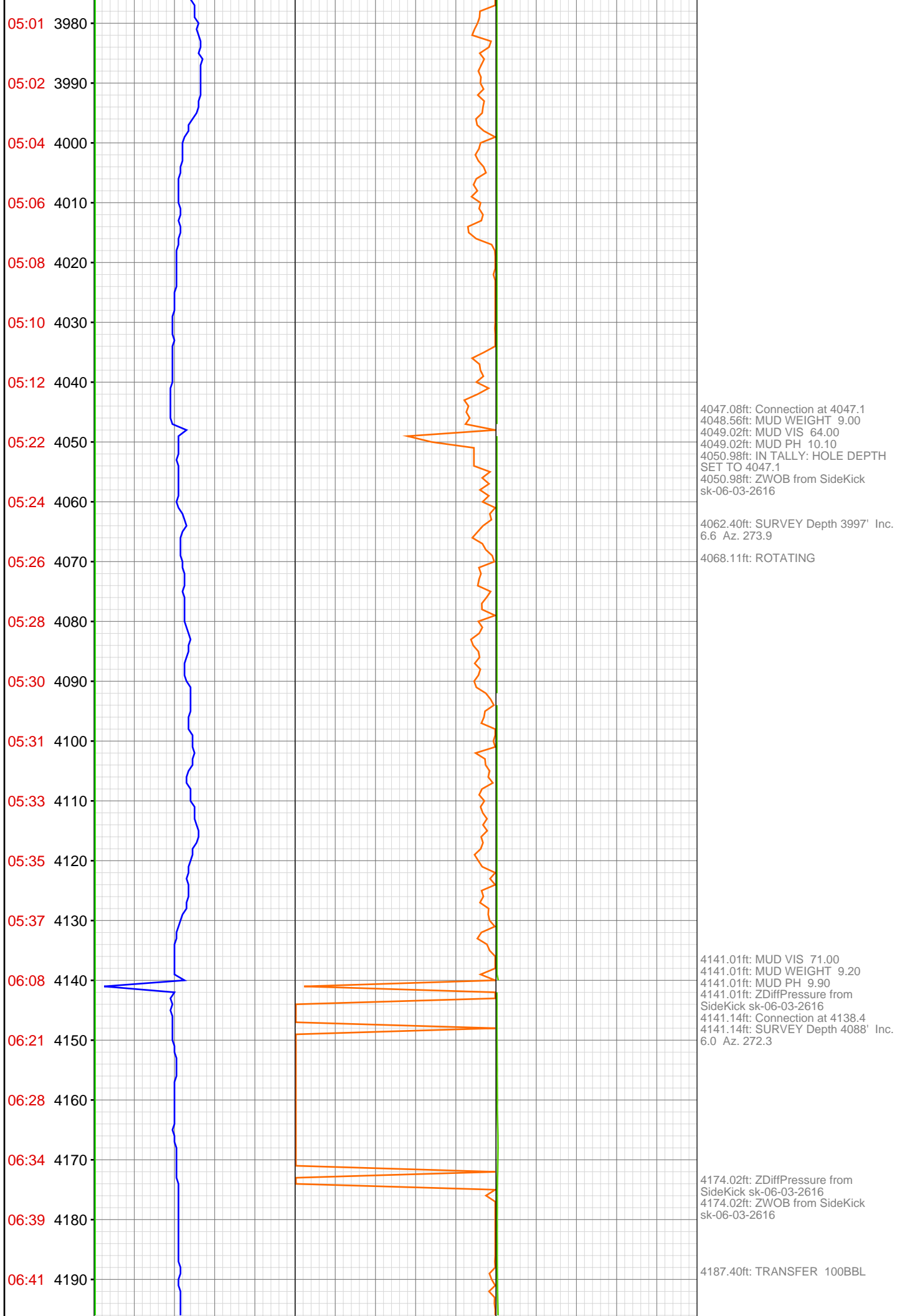


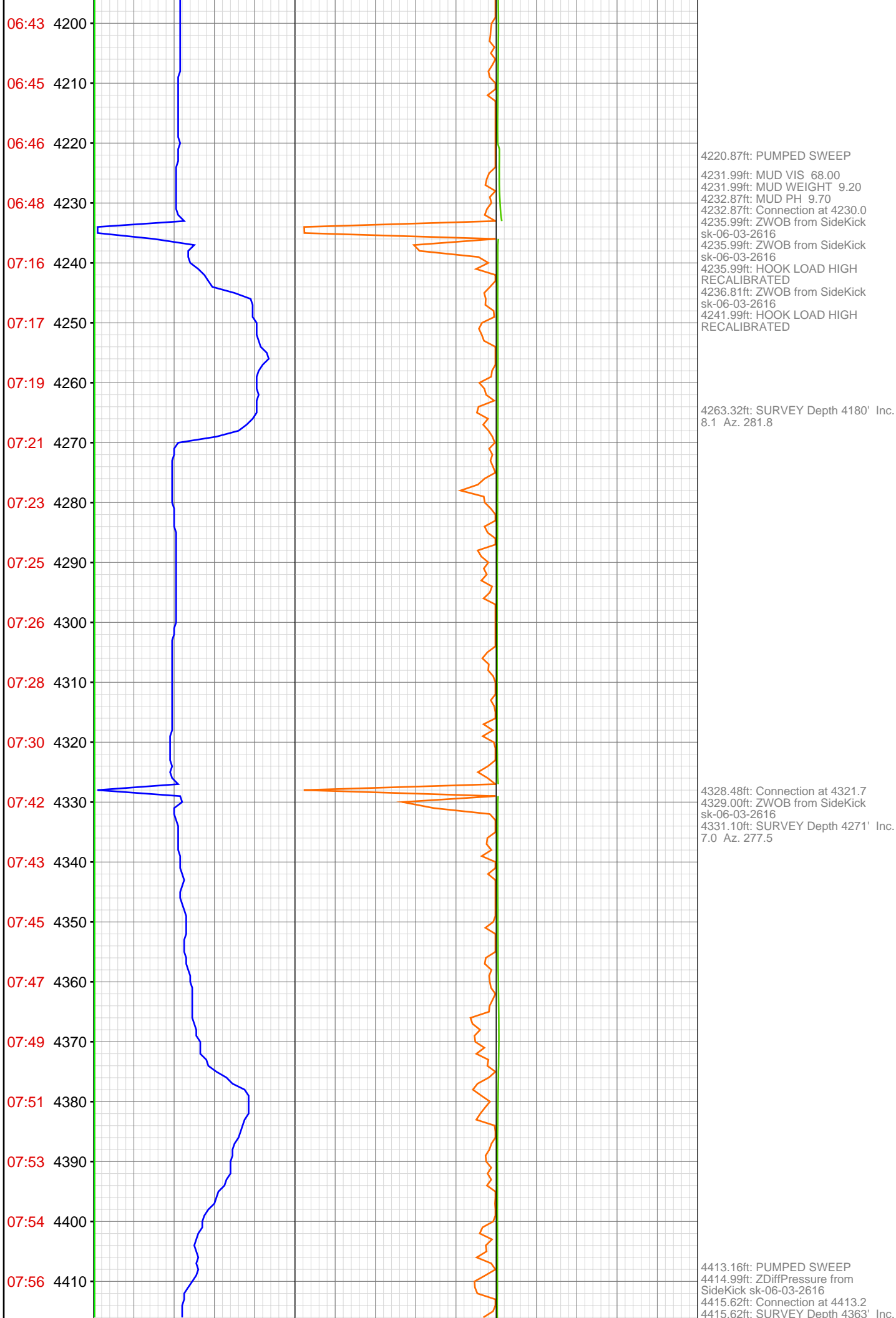


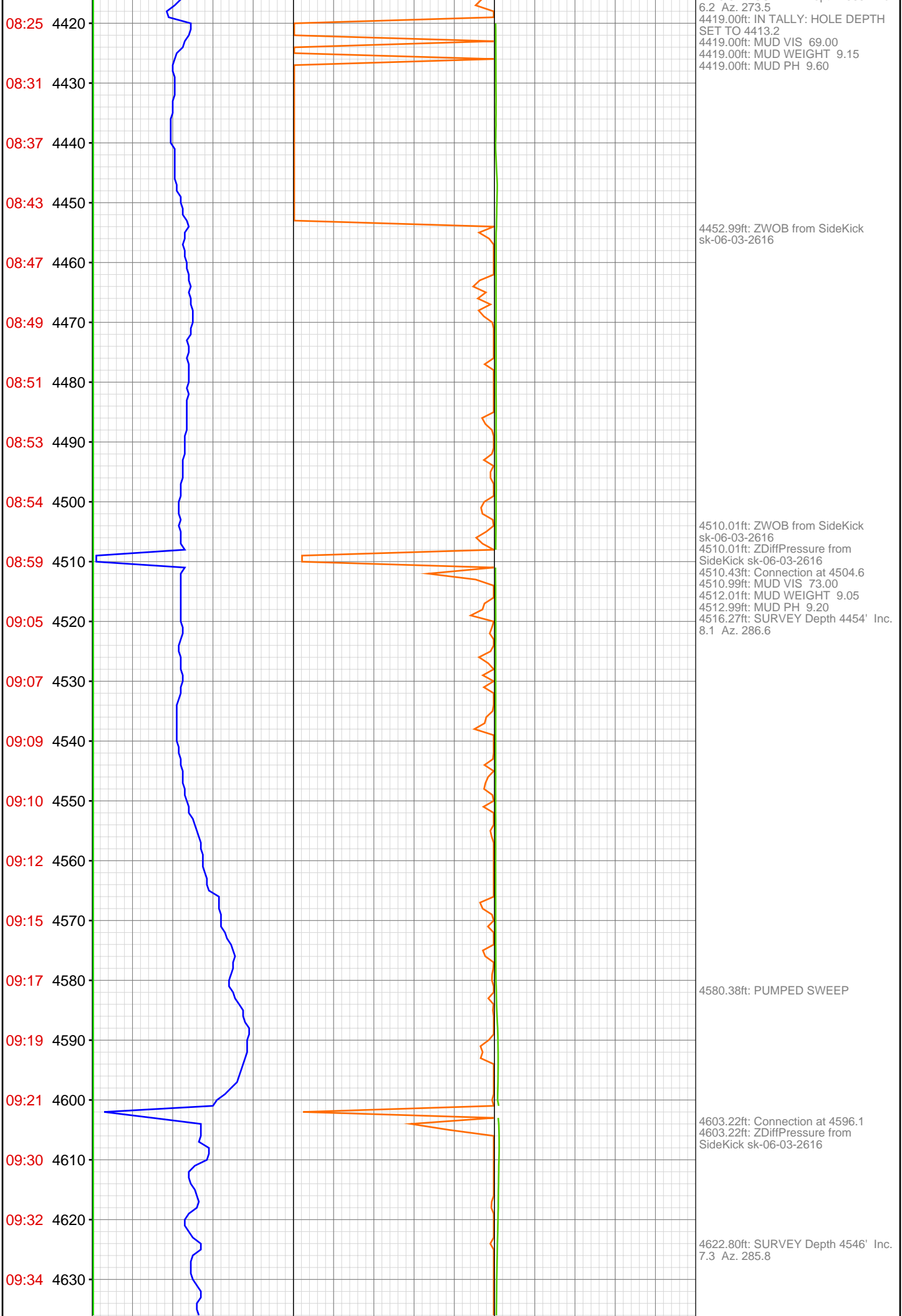


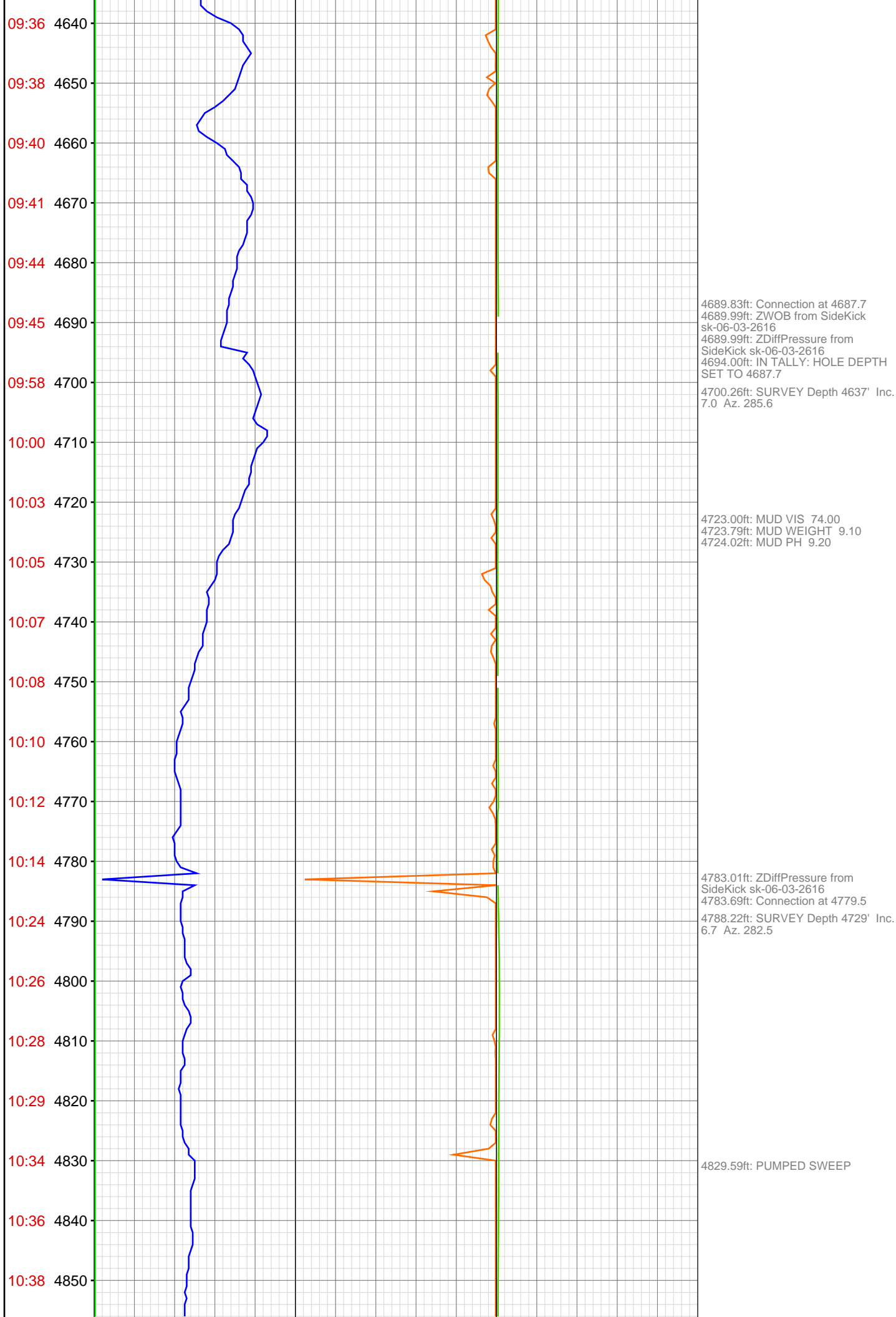


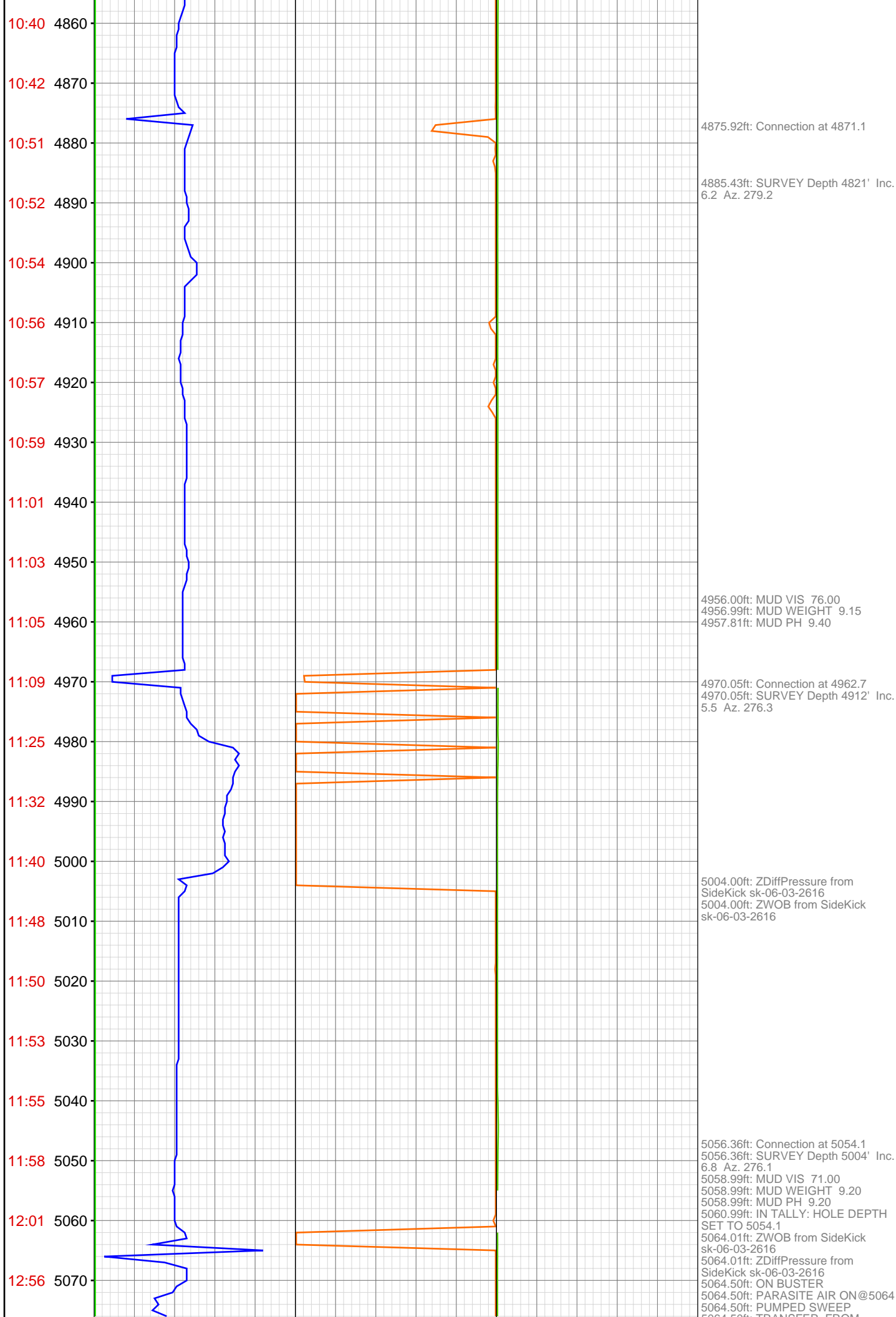




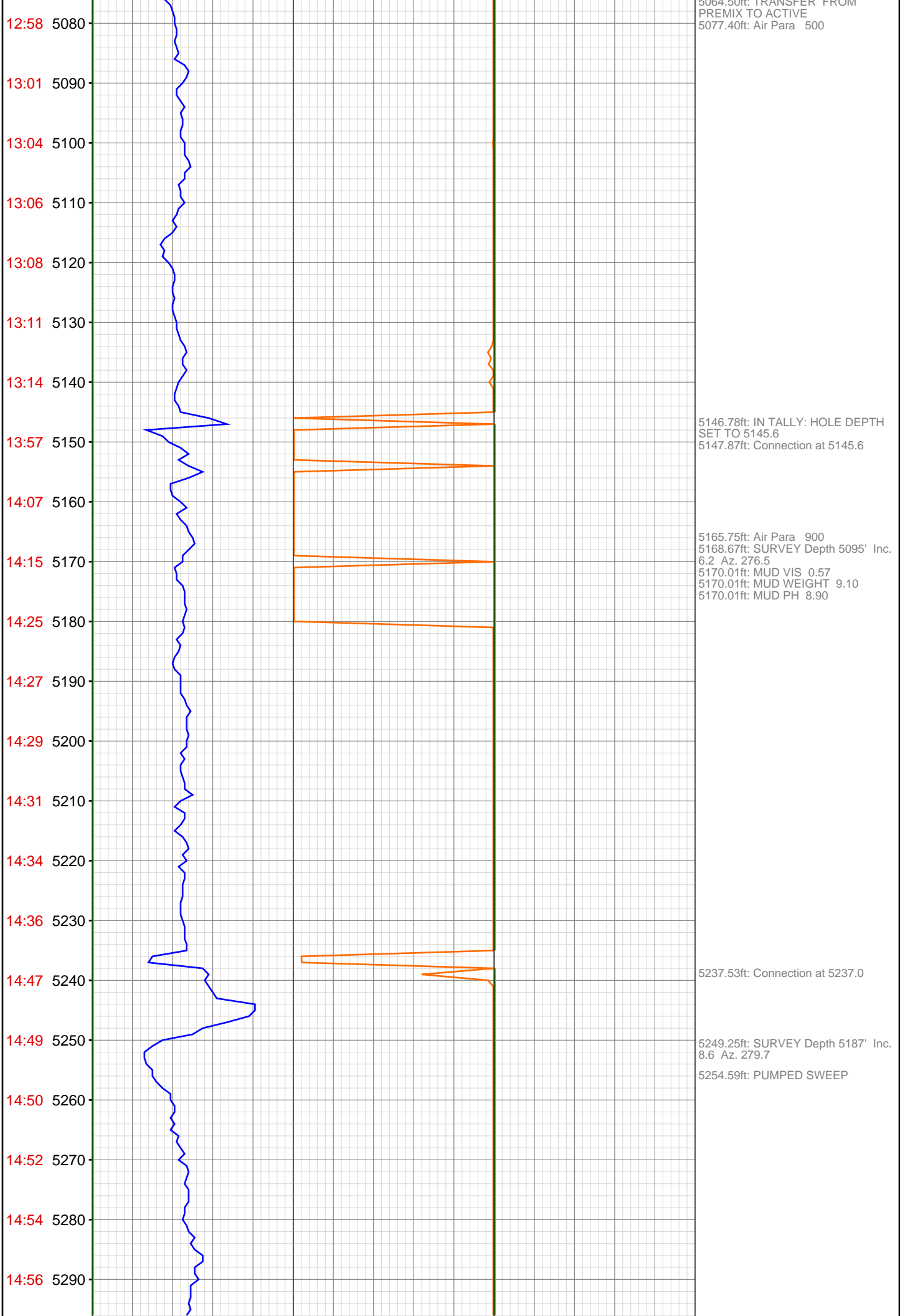


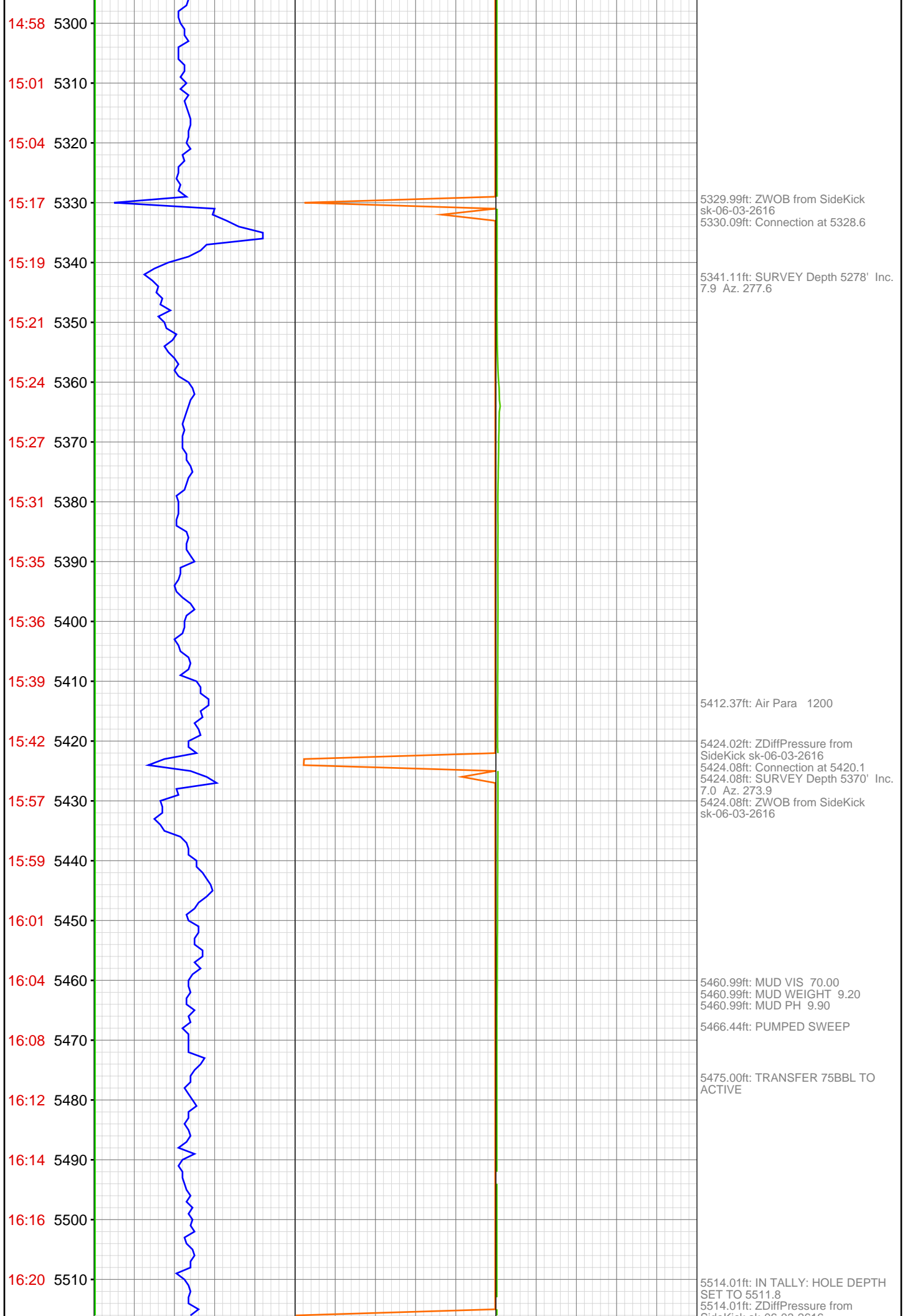


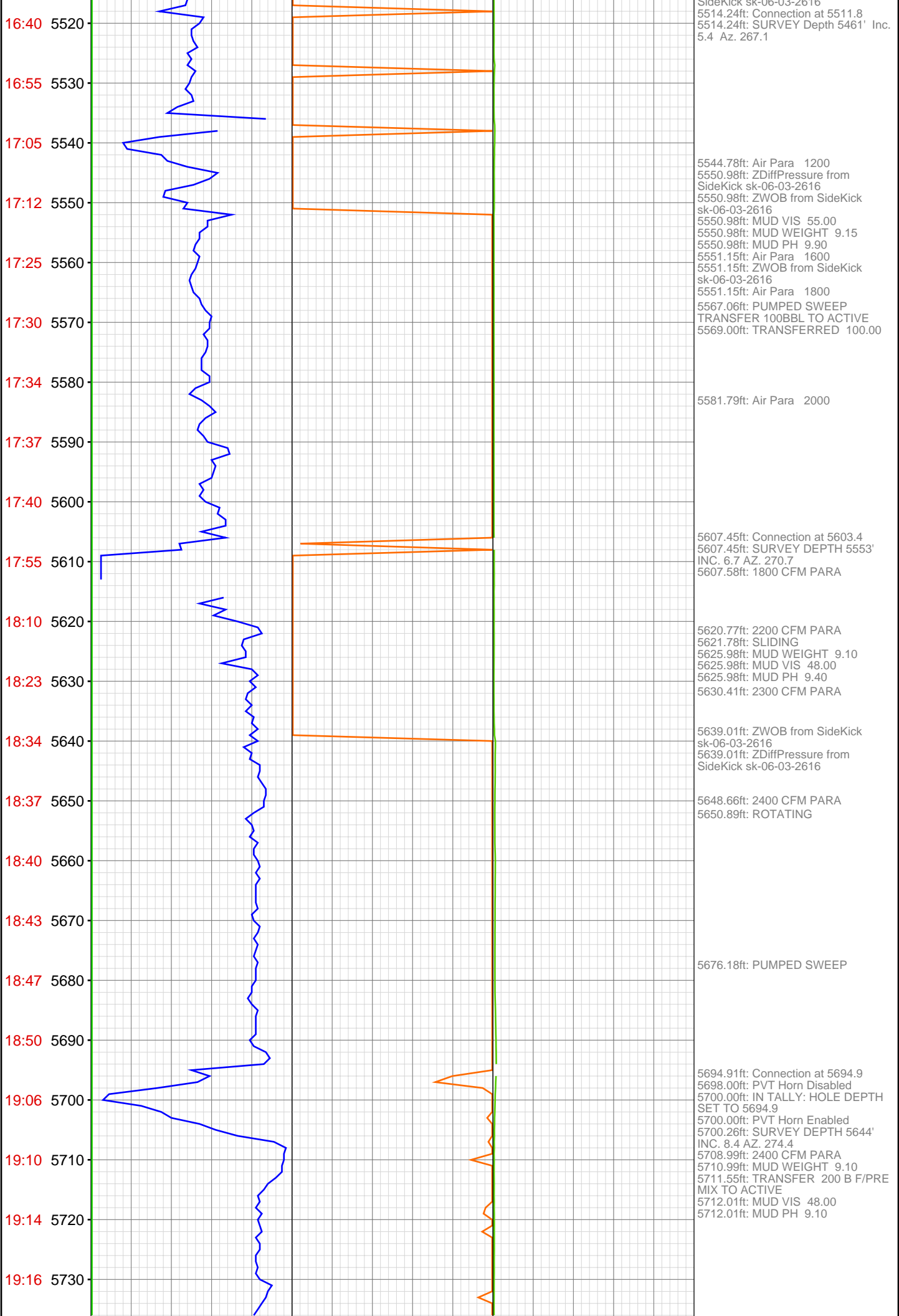


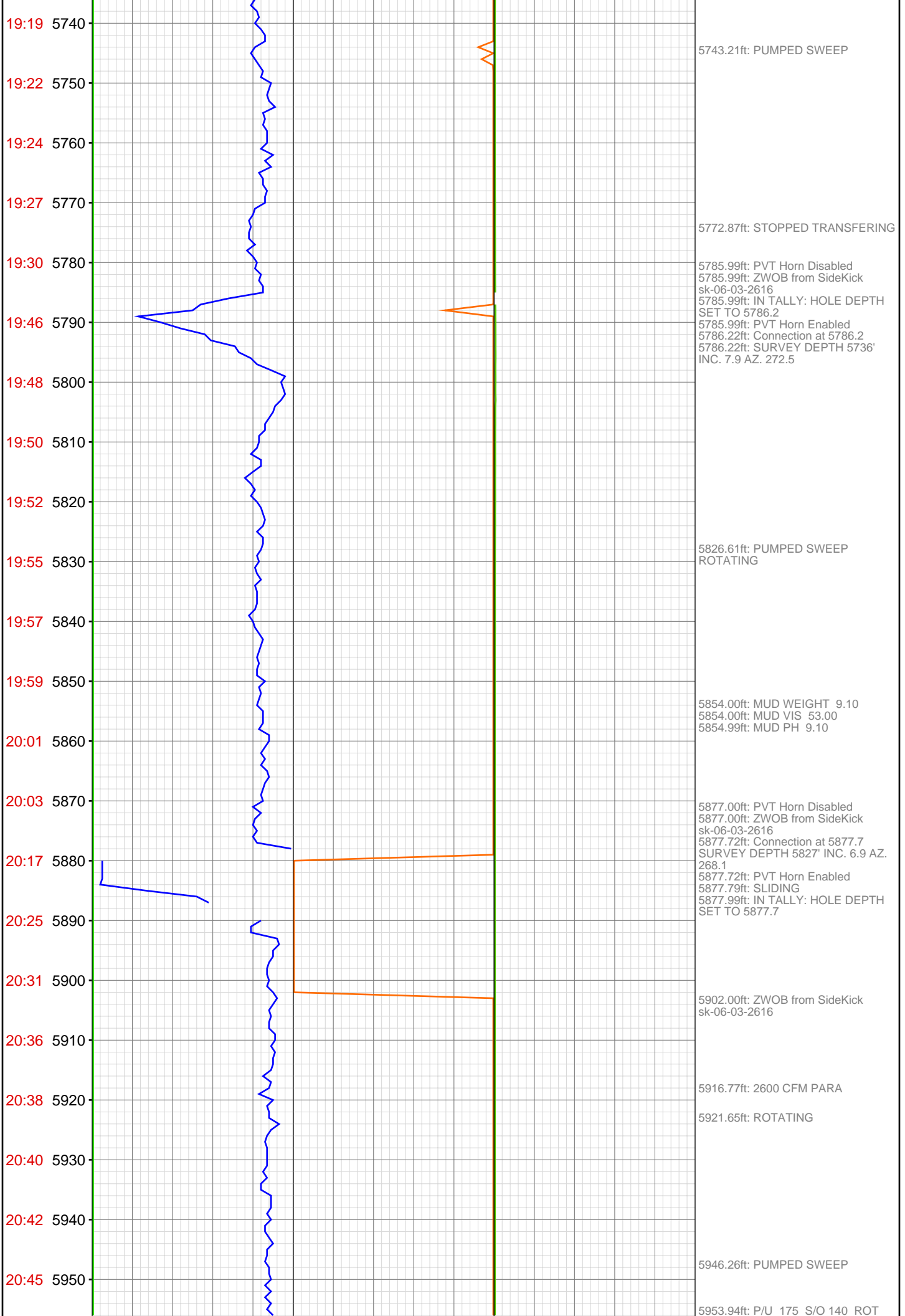


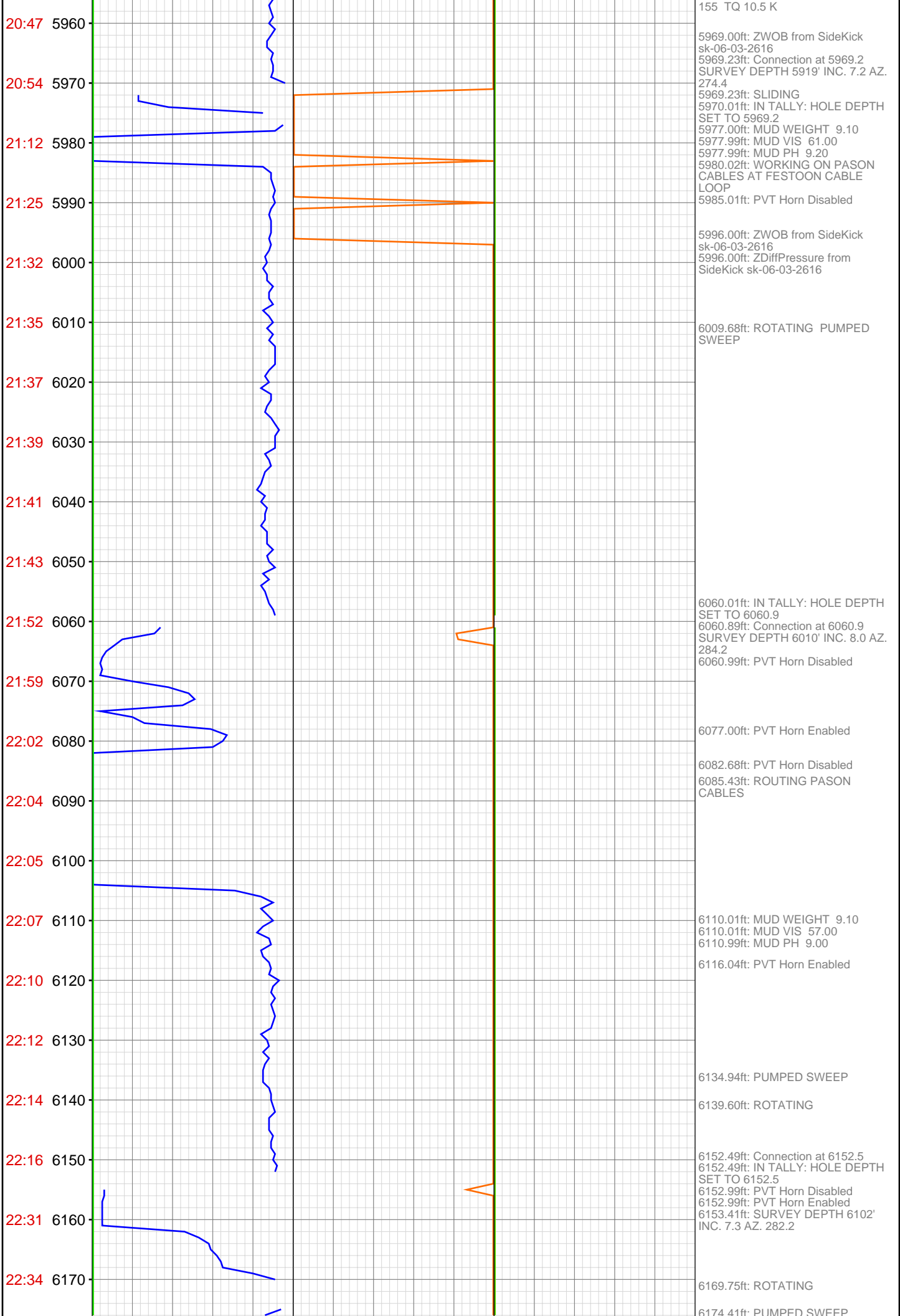


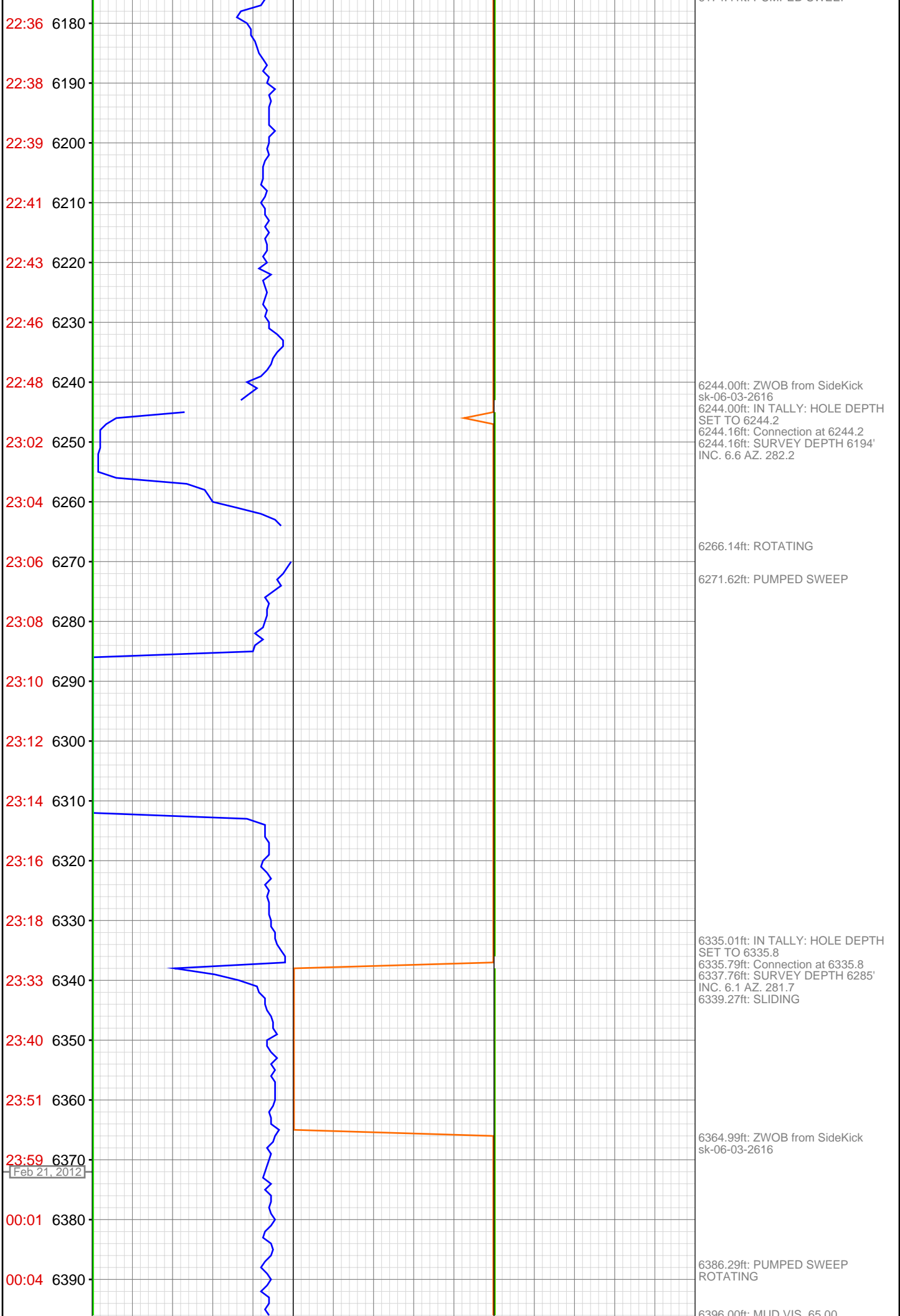


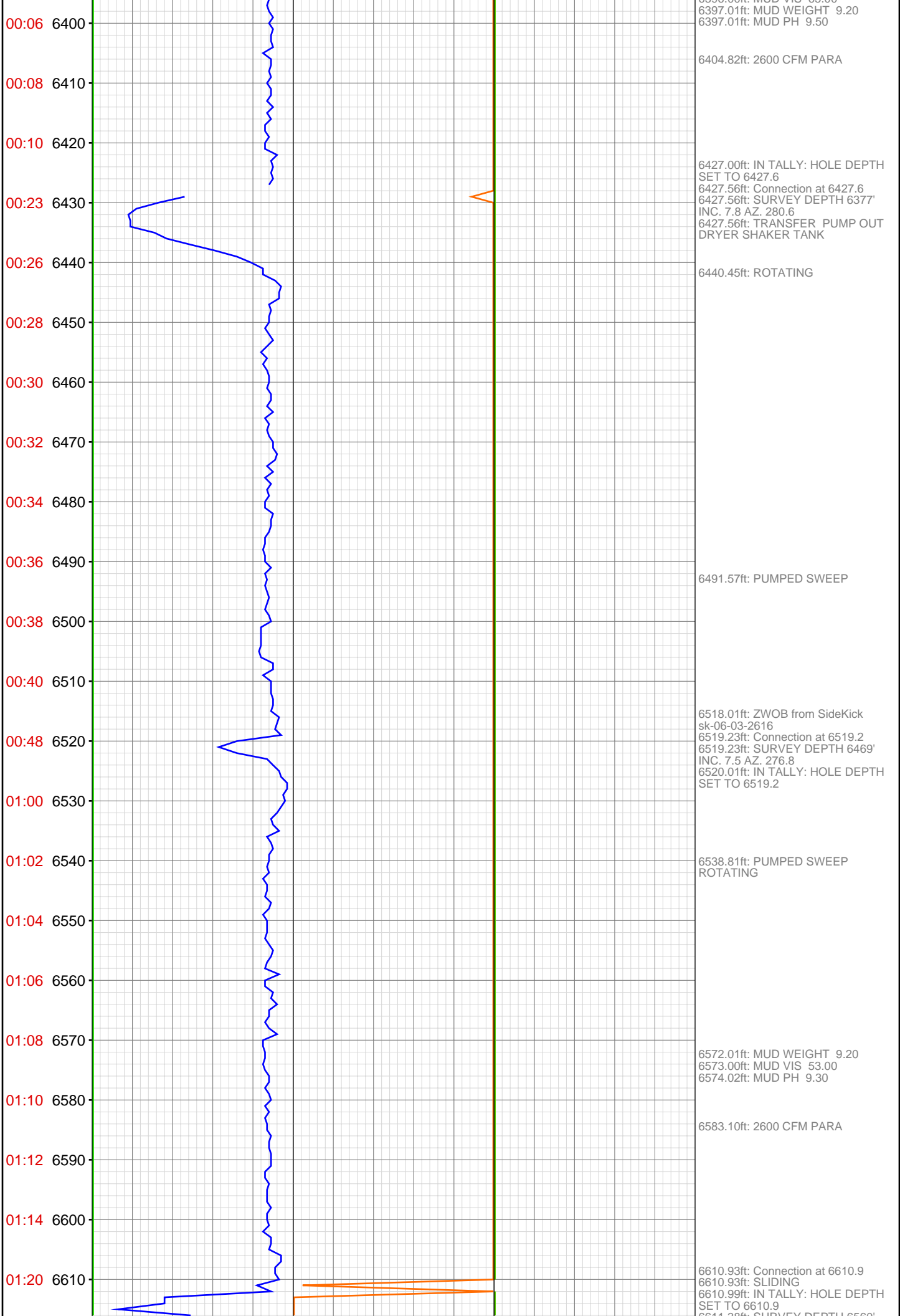


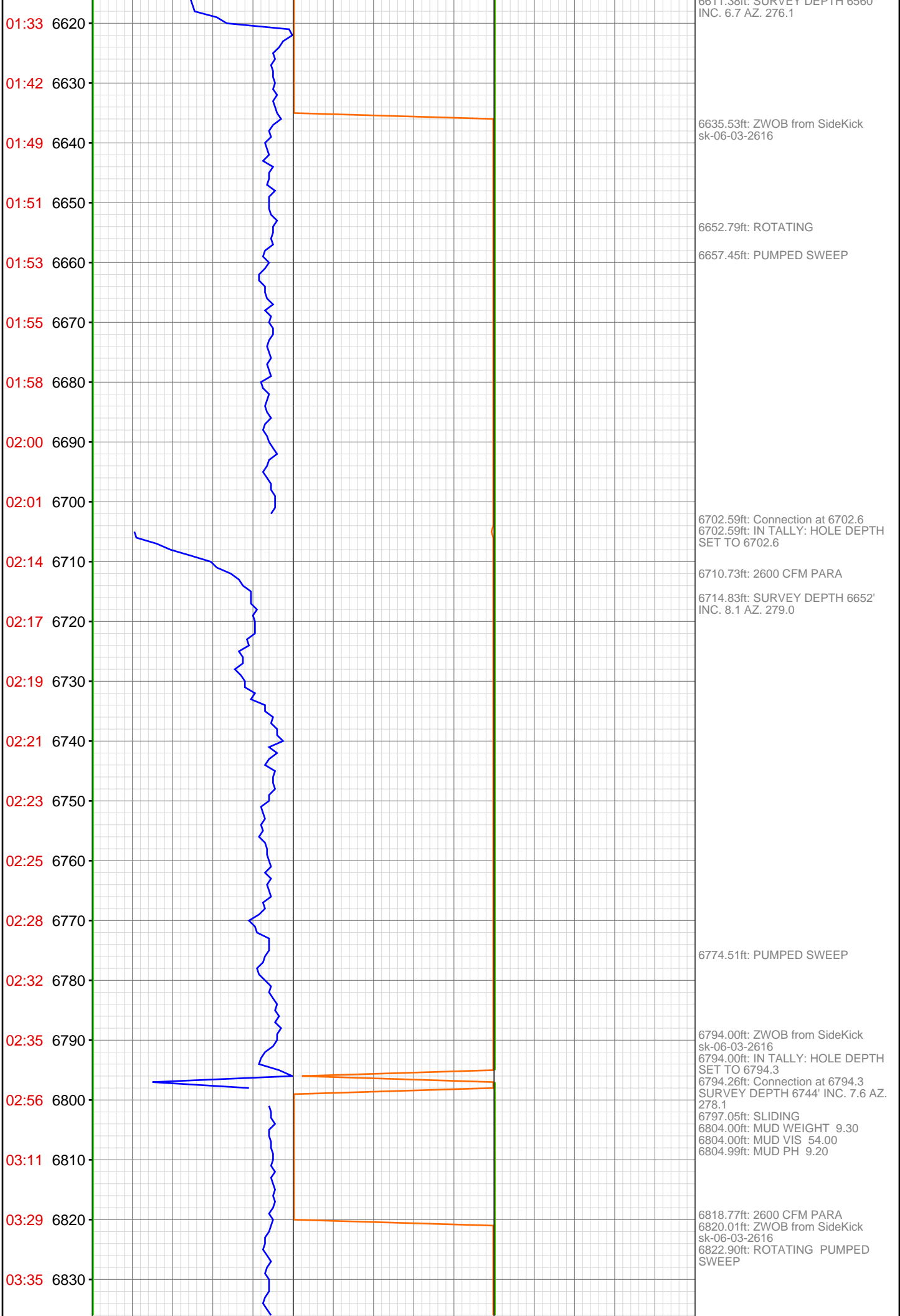














03:37 6840  
03:39 6850  
03:41 6860  
03:43 6870  
03:45 6880  
04:32 6890  
04:43 6900  
04:56 6910  
04:58 6920  
05:01 6930  
05:03 6940  
05:05 6950  
05:07 6960  
05:09 6970  
05:26 6980  
05:45 6990  
05:54 7000  
06:03 7010  
06:06 7020  
06:08 7030  
06:10 7040  
06:12 7050

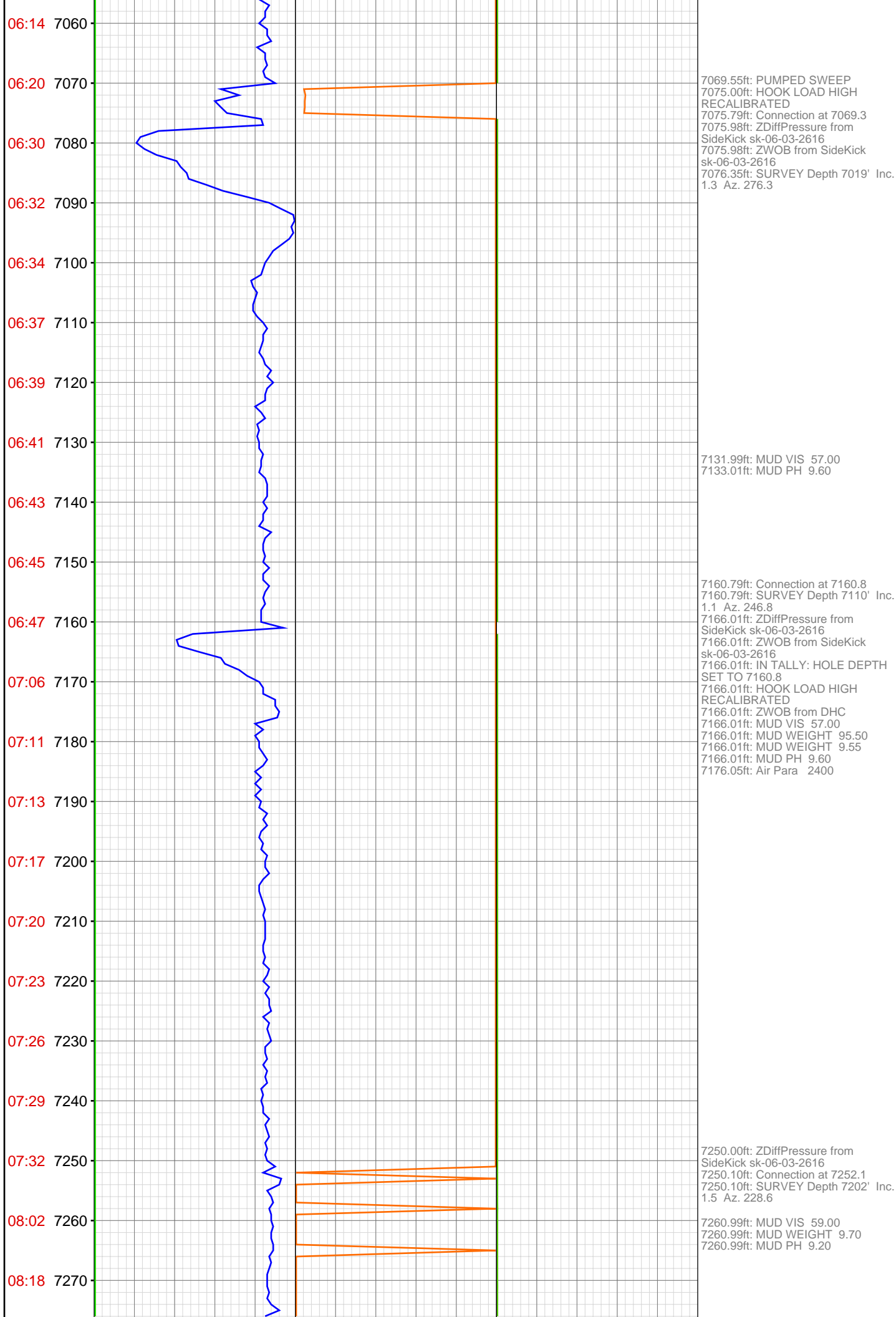
6885.01ft: IN TALLY: HOLE DEPTH  
SET TO 6886.0  
6885.01ft: MUD WEIGHT 9.30  
6885.01ft: MUD VIS 59.00  
6885.01ft: MUD PH 9.50  
6885.01ft: ZWOB from SideKick  
sk-06-03-2616  
6885.99ft: Connection at 6886.0  
6885.99ft: WAIT ON 306  
6885.99ft: SURVEY DEPTH 6835'  
INC. 4.6 AZ. 271.2  
6885.99ft: SLIDING

6917.45ft: 2400 CFM PARA  
  
6922.24ft: ROTATING PUMPED  
SWEEP  
  
6929.00ft: MUD WEIGHT 9.40  
6929.00ft: MUD VIS 55.00  
6929.00ft: MUD PH 9.80

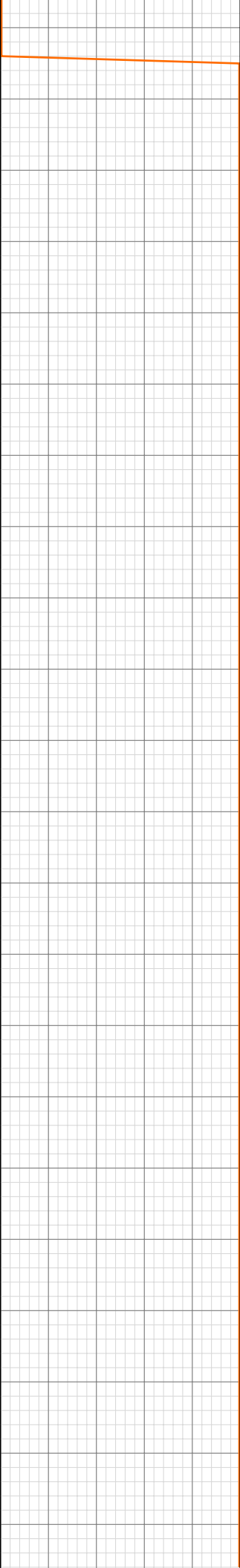
6937.57ft: TRANSFER (PUMP OUT  
DRYER SHAKER TANK)

6968.01ft: MUD WEIGHT 9.40  
6968.01ft: MUD VIS 55.00  
6969.00ft: MUD PH 9.80

6979.00ft: ZDiffPressure from  
SideKick sk-06-03-2616  
6979.63ft: SURVEY DEPTH 6927'  
INC. 2.9 AZ. 267.8  
6980.35ft: Connection at 6977.6  
6980.68ft: IN TALLY: HOLE DEPTH  
SET TO 6977.6



08:31 7280  
08:41 7290  
08:45 7300  
08:49 7310  
08:52 7320  
08:57 7330  
09:15 7340  
09:18 7350  
09:20 7360  
09:23 7370  
09:26 7380  
09:31 7390  
09:35 7400  
09:39 7410  
09:43 7420  
09:57 7430  
09:59 7440  
10:03 7450  
10:09 7460  
10:14 7470  
10:21 7480  
10:27 7490



7283.99ft: ZWOB from SideKick  
sk-06-03-2616

7329.07ft: Air Para 2400  
7331.00ft: PUMPED SWEEP

7339.01ft: Connection at 7343.6  
7339.01ft: MUD VIS 59.00  
7339.01ft: MUD WEIGHT 9.70  
7339.01ft: MUD PH 9.50  
7339.01ft: SURVEY Depth 7293' Inc.  
0.8 Az. 78.8

7416.08ft: PUMPED SWEEP

7427.99ft: IN TALLY: HOLE DEPTH  
SET TO 7435.1  
7427.99ft: ZWOB from SideKick  
sk-06-03-2616  
7427.99ft: ZDiffPressure from  
SideKick sk-06-03-2616  
7435.14ft: Connection at 7435.1  
7437.11ft: SURVEY Depth 7385' Inc.  
1.1 Az. 99.7  
7441.93ft: Air Para 2400

10:33 7500  
10:37 7510  
10:42 7520  
11:01 7530  
11:07 7540  
11:13 7550  
11:17 7560  
11:24 7570  
11:29 7580  
11:35 7590  
11:40 7600  
11:45 7610  
12:03 7620  
12:24 7630  
12:38 7640  
12:53 7650  
13:03 7660  
13:07 7670  
13:11 7680  
13:16 7690  
13:20 7700  
13:36 7710



7518.96ft: PUMPED SWEEP  
7524.02ft: ZWOB from SideKick  
sk-06-03-2616  
7524.41ft: Connection at 7526.6  
7524.41ft: SURVEY Depth 7476' Inc.  
0.8 Az. 130.4

7539.24ft: Air Para 2400

7549.02ft: MUD WEIGHT 9.75  
7549.02ft: MUD PH 9.20  
7549.41ft: MUD VIS 60.00

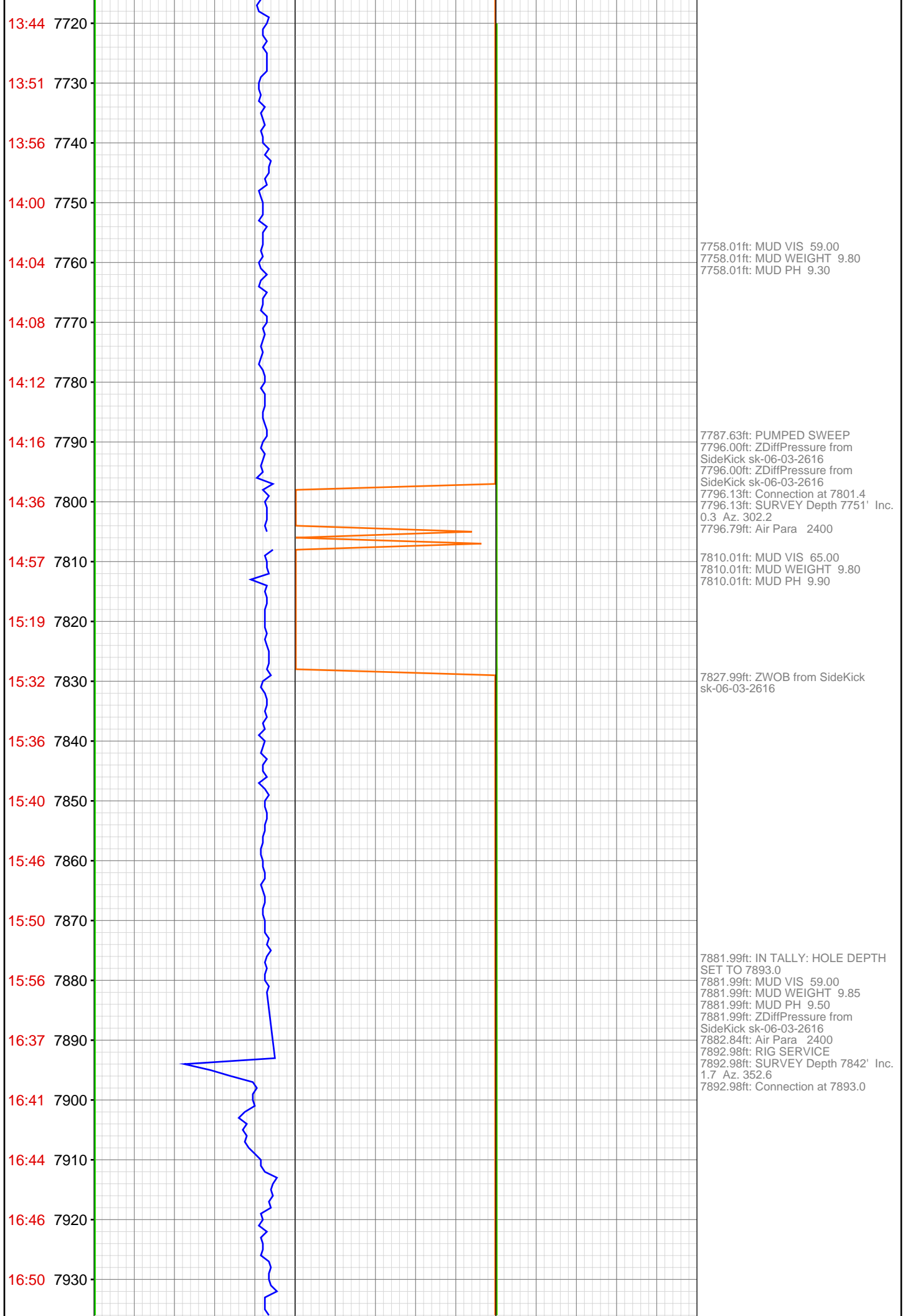
7604.33ft: PUMPED SWEEP

7612.99ft: IN TALLY: HOLE DEPTH  
SET TO 7618.2  
7612.99ft: ZDiffPressure from  
SideKick sk-06-03-2616  
7618.24ft: Connection at 7618.2  
7618.24ft: SURVEY Depth 7568' Inc.  
1.0 Az. 169.1

7649.02ft: TRANSFERRED 100.00  
7652.00ft: ZDiffPressure from  
SideKick sk-06-03-2616  
7652.00ft: ZWOB from SideKick  
sk-06-03-2616  
7653.05ft: Air Para 2400

7670.01ft: MUD VIS 53.00  
7671.00ft: MUD PH 9.20  
7671.13ft: MUD WEIGHT 9.75

7706.99ft: ZWOB from SideKick  
sk-06-03-2616  
7706.99ft: ZDiffPressure from  
SideKick sk-06-03-2616  
7707.05ft: Connection at 7709.9  
7707.68ft: SURVEY Depth 7659' Inc.  
0.5 Az. 337.8



16:53 7940  
16:57 7950  
17:00 7960  
17:04 7970  
17:07 7980  
17:21 7990  
17:24 8000  
17:27 8010  
17:32 8020  
17:40 8030  
17:44 8040  
17:47 8050  
17:53 8060  
17:57 8070  
18:15 8080  
18:21 8090  
18:25 8100  
18:30 8110  
18:35 8120  
18:39 8130  
18:44 8140  
18:48 8150



7953.45ft: Air Para 2200

7962.99ft: MUD WEIGHT 9.80  
7962.99ft: MUD VIS 53.00  
7964.01ft: MUD PH 9.30

7969.88ft: Air Para 2400  
7973.00ft: PVT Horn Disabled

7981.99ft: IN TALLY: HOLE DEPTH SET TO 7984.5  
7981.99ft: ZERO ALL PUMPS from SideKick sk-06-03-2616  
7982.45ft: Connection at 7984.5  
7987.96ft: SURVEY Depth 7934' Inc. 1.2 Az. 320.7

7994.36ft: P/U 240 S/O 175 ROT 195 TQ. 15-16 K OBP=1900 PSI  
7996.72ft: PVT Horn Enabled

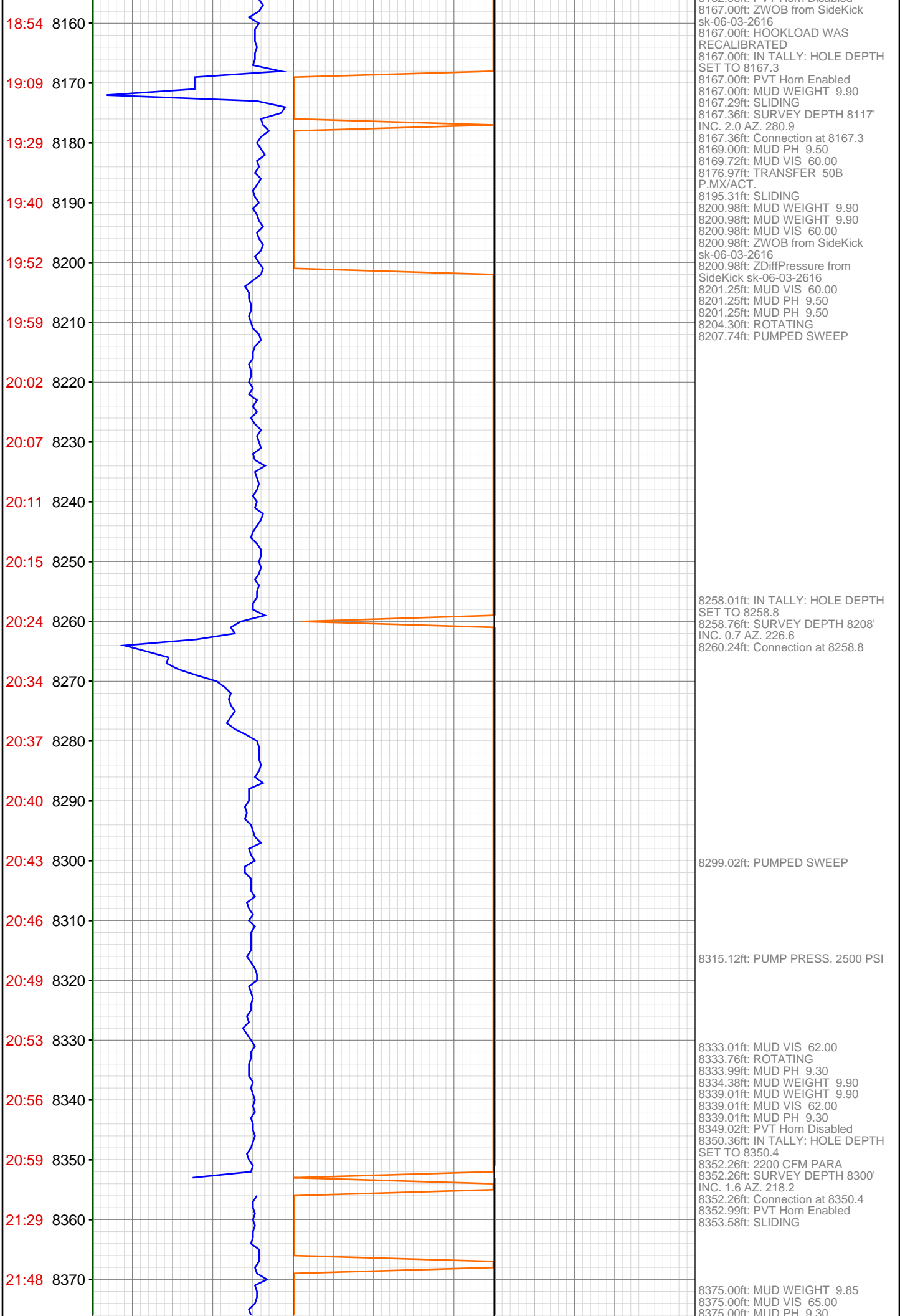
8014.17ft: PUMPED SWEEP

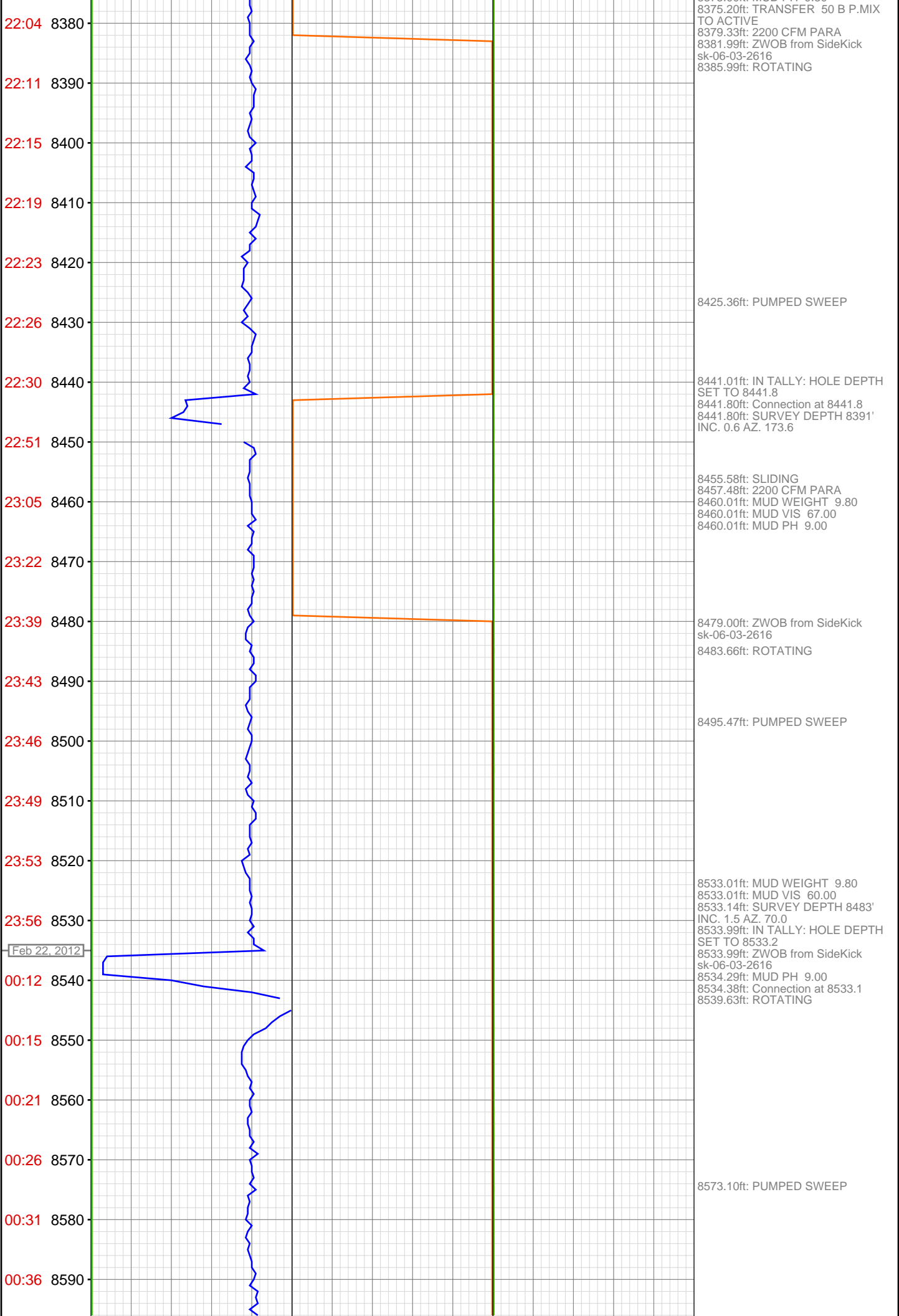
8072.01ft: PVT Horn Disabled  
8075.00ft: MUD WEIGHT 9.90  
8075.00ft: MUD VIS 60.00  
8075.00ft: MUD PH 9.10  
8075.00ft: IN TALLY: HOLE DEPTH SET TO 8075.9  
8075.59ft: Connection at 8075.9 SURVEY DEPTH 8025' INC. 1.5 AZ. 296.5  
8085.27ft: 2200 CFM PARA

8102.92ft: PUMPED SWEEP  
8102.99ft: PVT Horn Enabled

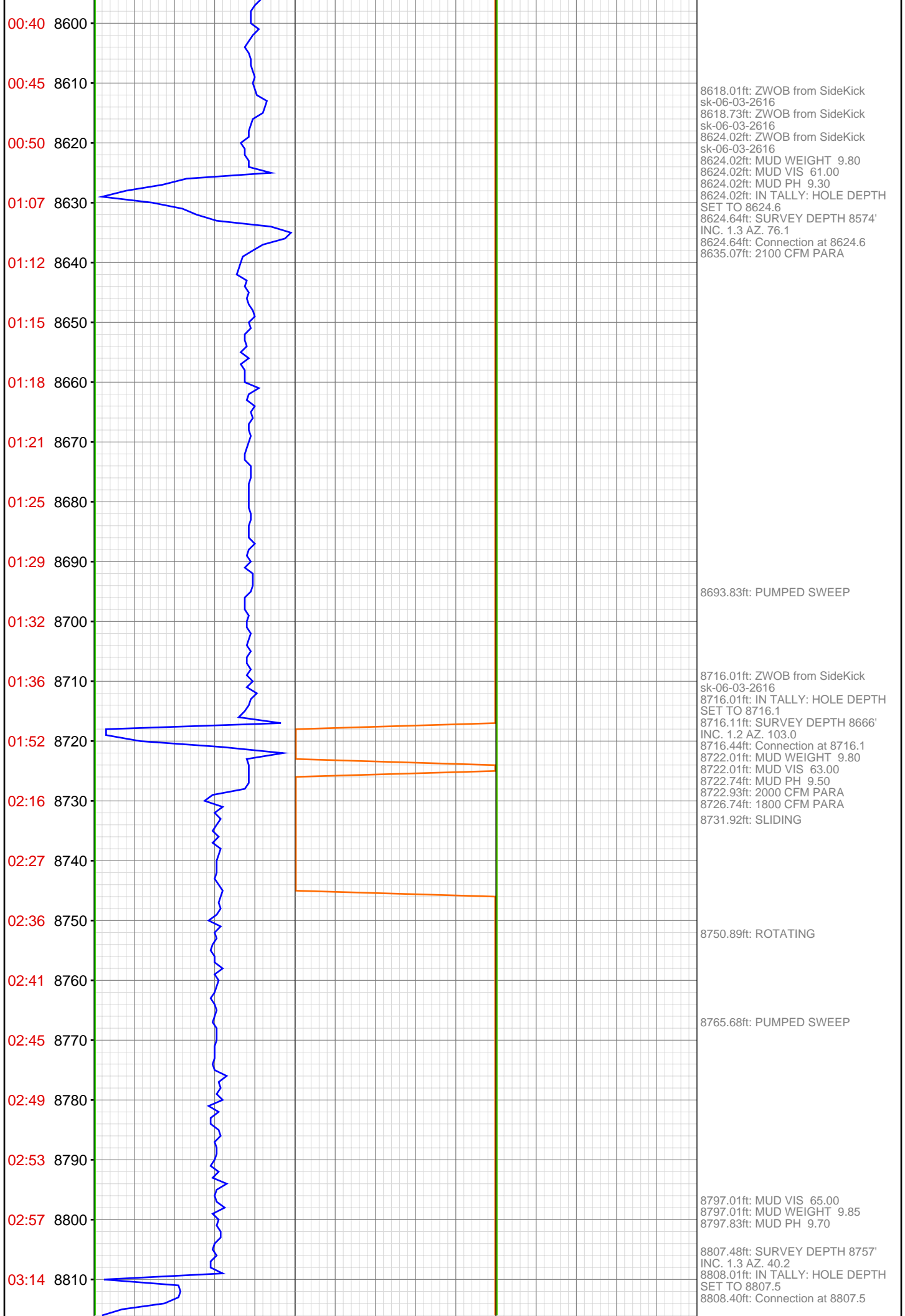
8129.13ft: ROTATING

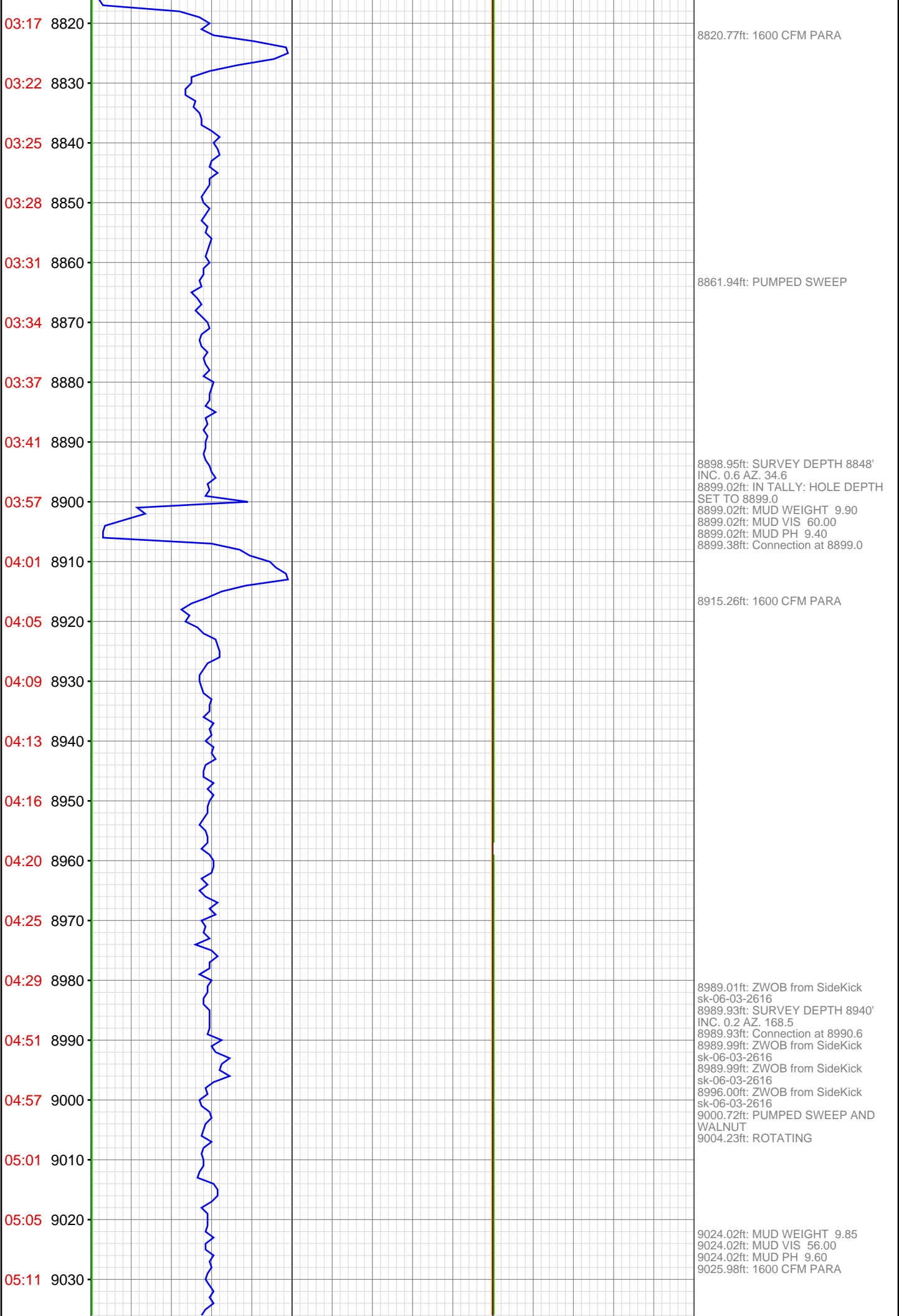
8162.99ft: PVT Horn Disabled

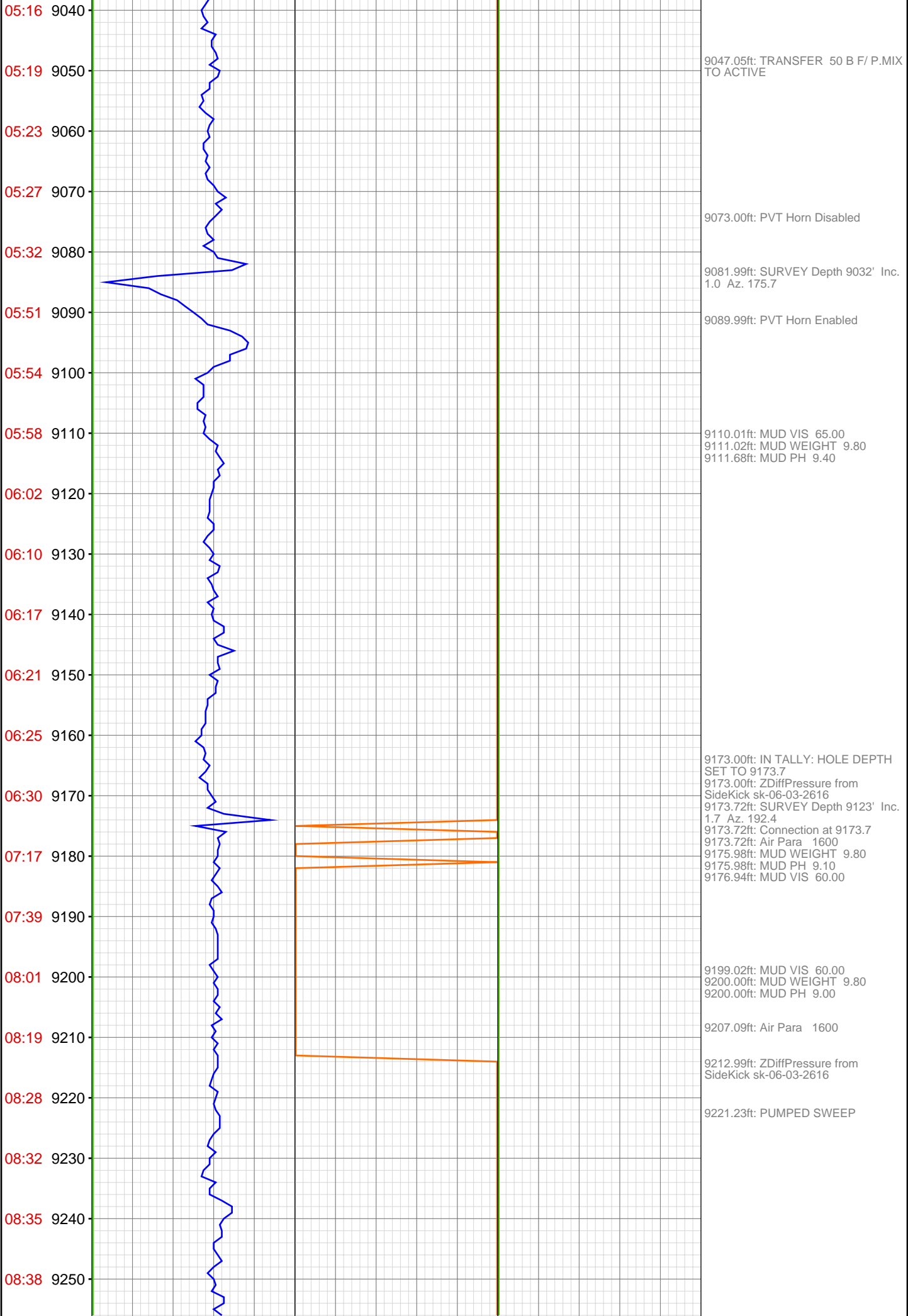


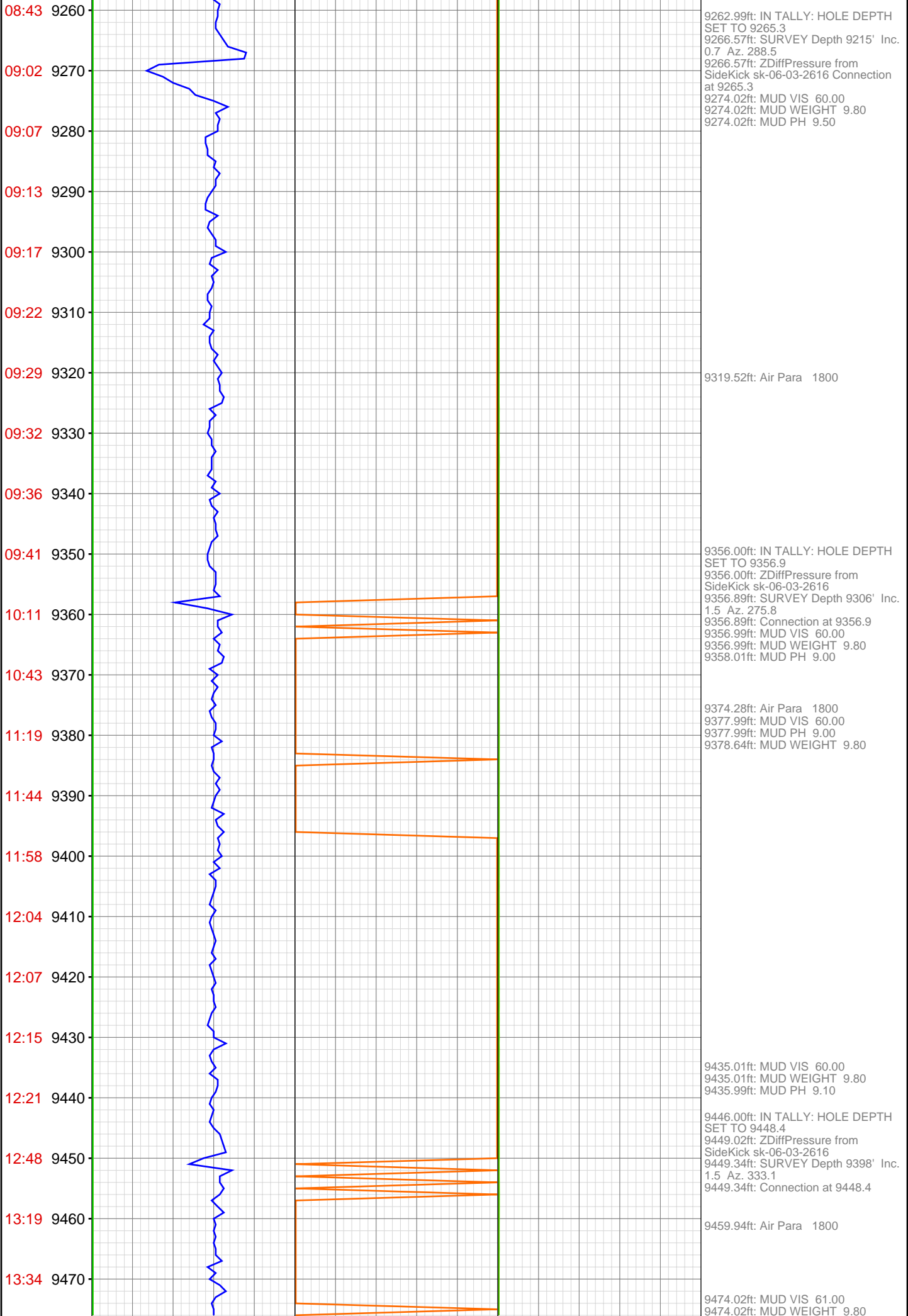


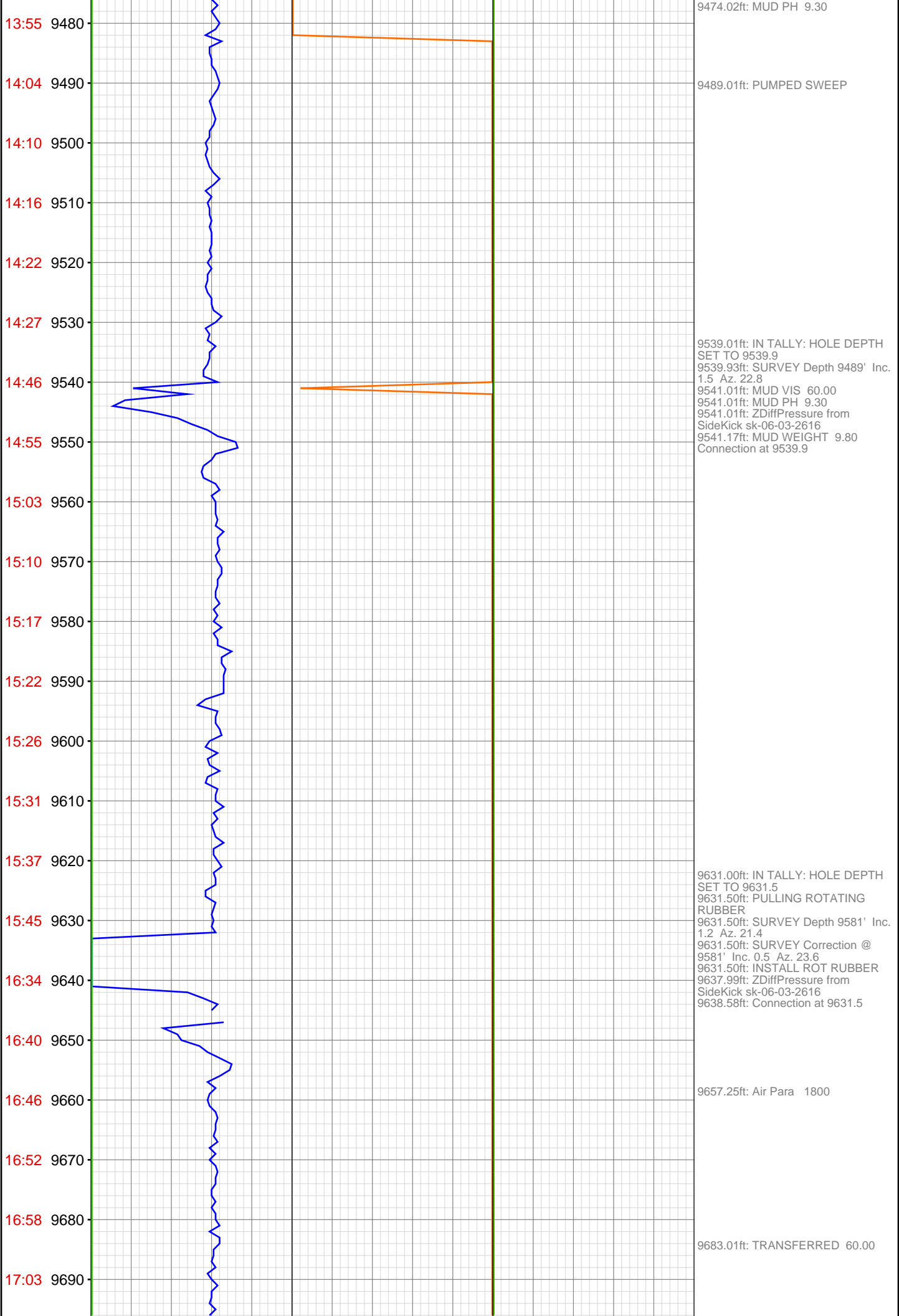


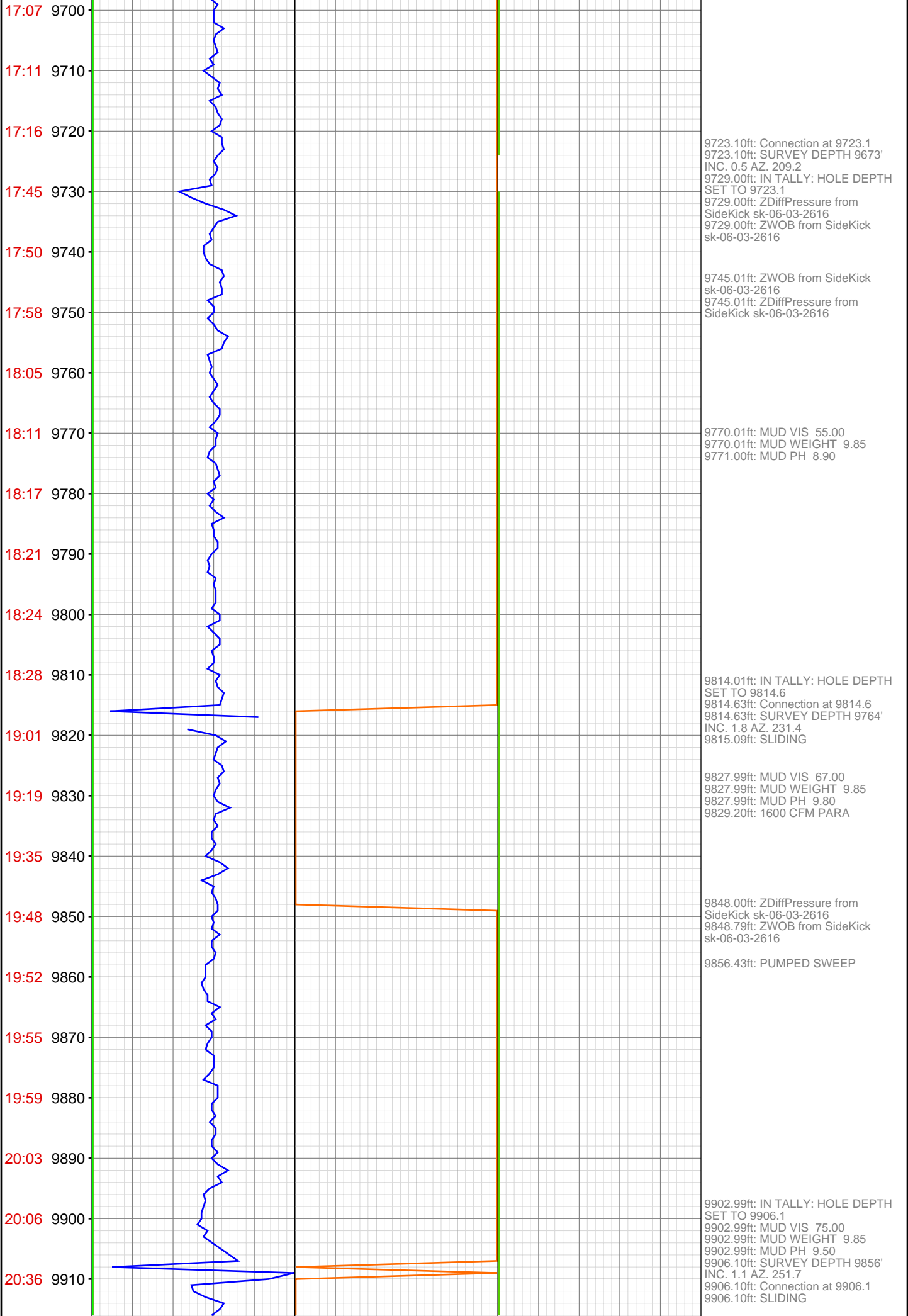


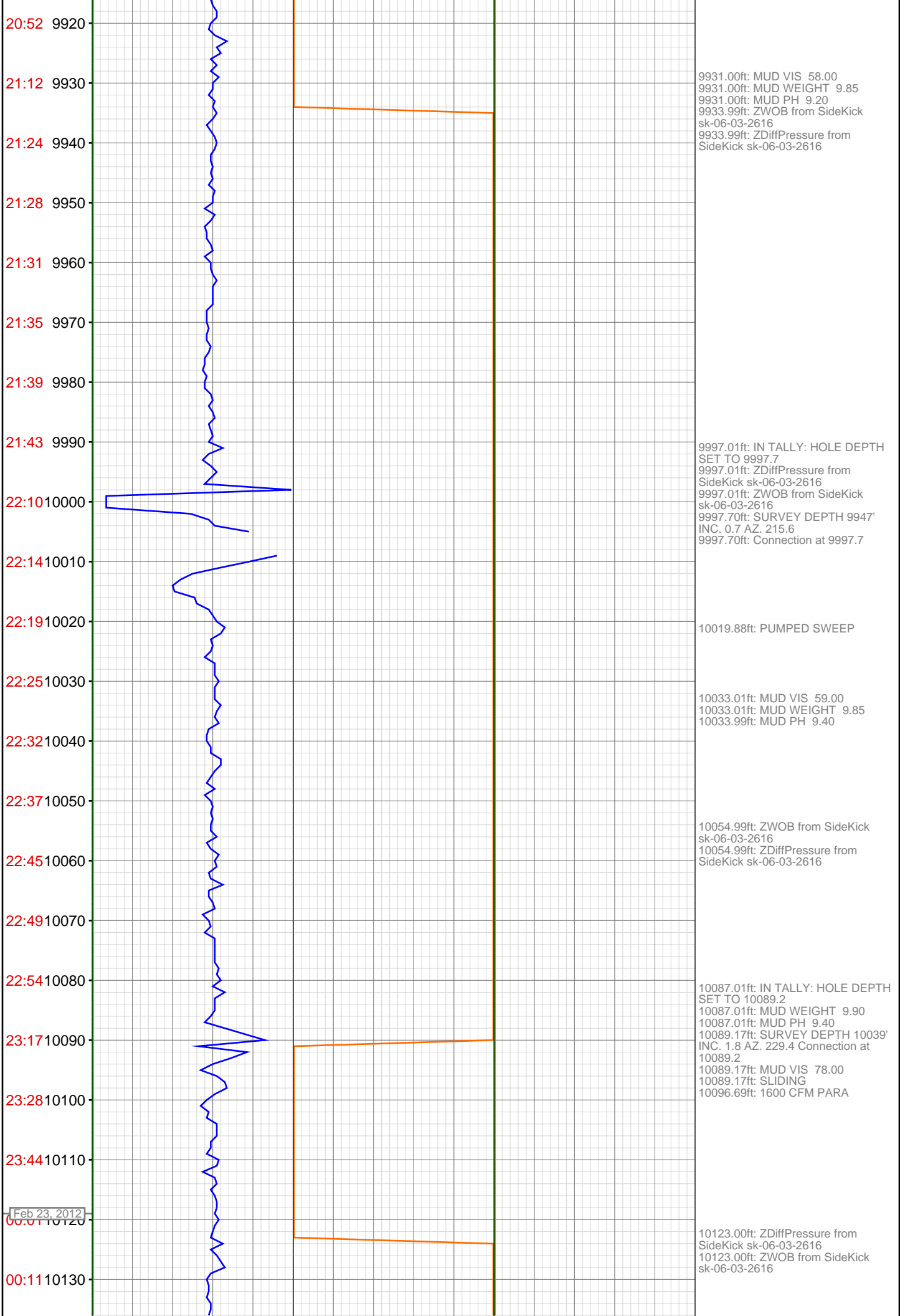












00:14 10140  
00:17 10150  
00:25 10160  
00:29 10170  
00:50 10180  
01:16 10190  
01:34 10200  
02:01 10210  
02:09 10220  
02:16 10230  
02:20 10240  
02:23 10250  
02:28 10260  
02:52 10270  
03:01 10280  
03:09 10290  
03:13 10300  
03:17 10310  
03:21 10320  
03:26 10330  
03:30 10340  
03:34 10350



10148.00ft: MUD VIS 70.00  
10148.00ft: MUD WEIGHT 9.95  
10148.00ft: MUD PH 9.10

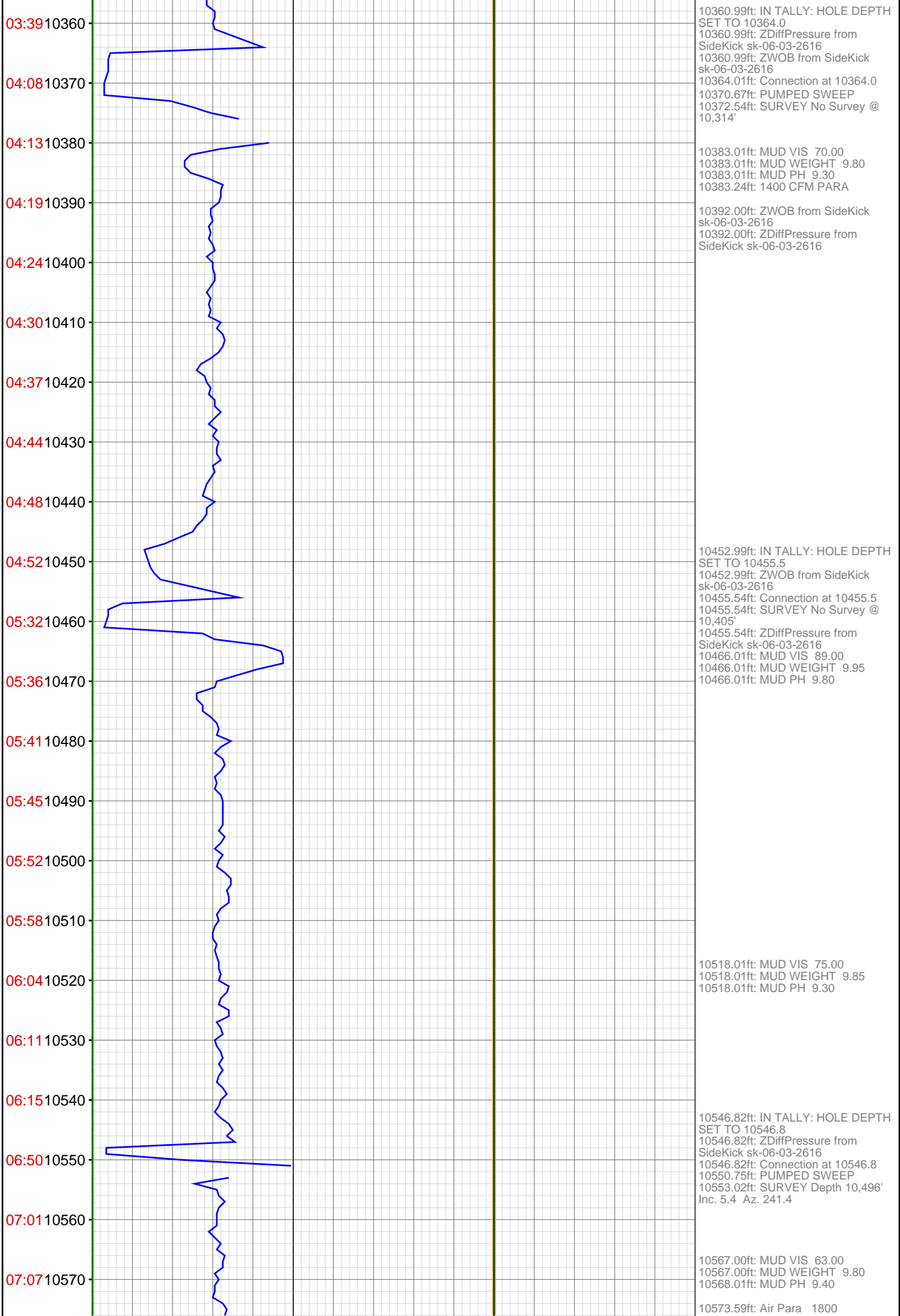
10180.77ft: IN TALLY: HOLE DEPTH SET TO 10180.8  
10180.77ft: SURVEY DEPTH 10130' INC. 1.3 AZ. 226.3  
10180.77ft: Connection at 10180.8  
10180.77ft: SLIDING  
10187.99ft: TRANSFERRED 125.00

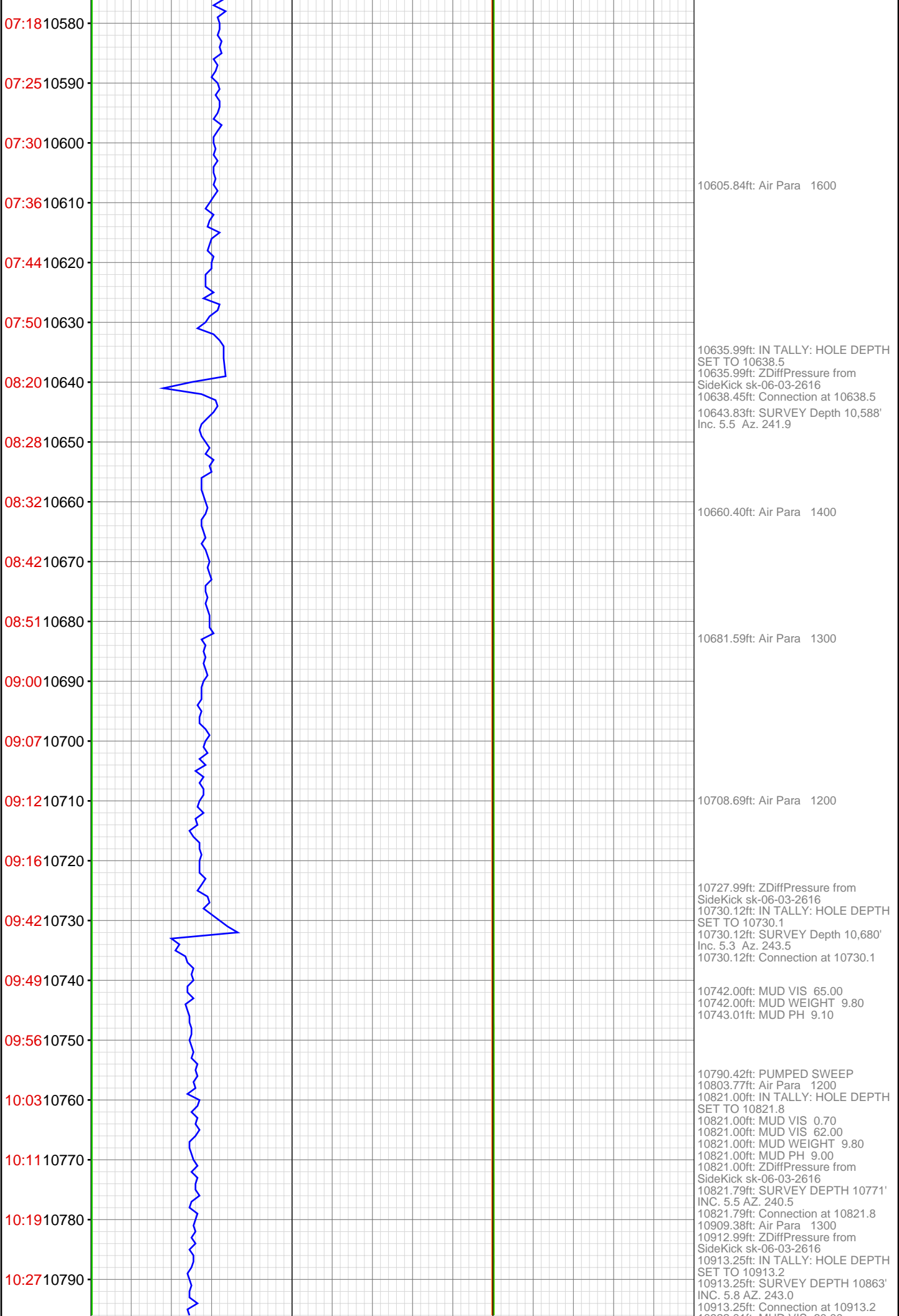
10193.01ft: MUD VIS 60.00  
10193.01ft: MUD WEIGHT 9.95  
10193.01ft: MUD PH 9.00

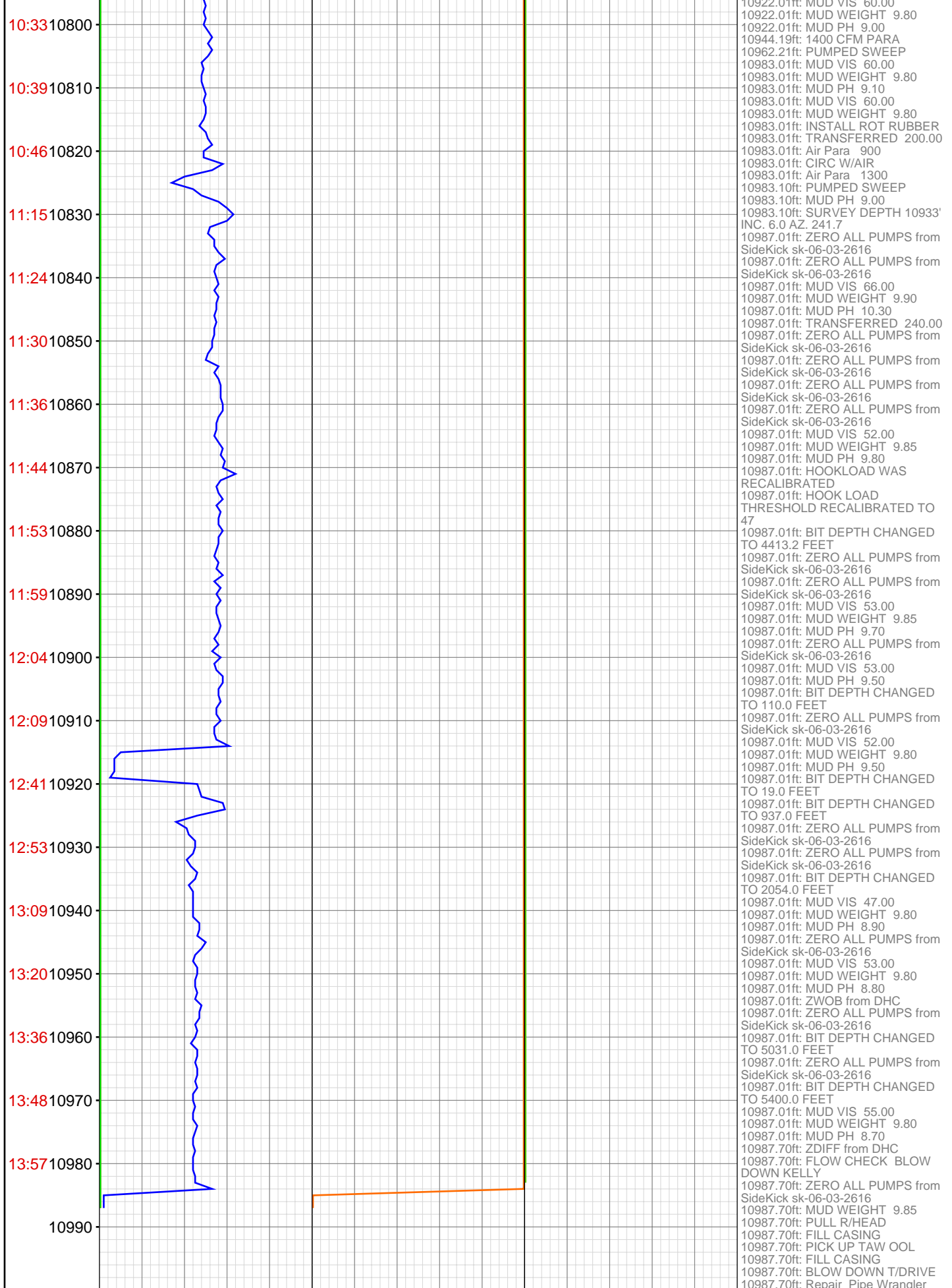
10206.99ft: ZWOB from SideKick sk-06-03-2616  
10206.99ft: ZWOB from SideKick sk-06-03-2616  
10206.99ft: ZDiffPressure from SideKick sk-06-03-2616  
10212.21ft: PUMPED SWEEP  
10213.65ft: 1400 CFM PARA

10269.00ft: IN TALLY: HOLE DEPTH SET TO 10272.4  
10269.00ft: ZDiffPressure from SideKick sk-06-03-2616  
10269.00ft: ZWOB from SideKick sk-06-03-2616  
10272.38ft: SURVEY DEPTH 10222' INC. 1.1 AZ. 245.3  
10272.38ft: Connection at 10272.4  
10277.99ft: ZWOB from SideKick sk-06-03-2616  
10278.02ft: ZDiffPressure from SideKick sk-06-03-2616









10922.01ft: MUD VIS 60.00  
10922.01ft: MUD WEIGHT 9.80  
10922.01ft: MUD PH 9.00  
10944.19ft: 1400 CFM PARA  
10962.21ft: PUMPED SWEEP  
10983.01ft: MUD VIS 60.00  
10983.01ft: MUD WEIGHT 9.80  
10983.01ft: MUD PH 9.10  
10983.01ft: MUD VIS 60.00  
10983.01ft: MUD WEIGHT 9.80  
10983.01ft: INSTALL ROT RUBBER  
10983.01ft: TRANSFERRED 200.00  
10983.01ft: Air Para 900  
10983.01ft: CIRC W/AIR  
10983.01ft: Air Para 1300  
10983.10ft: PUMPED SWEEP  
10983.10ft: MUD PH 9.00  
10983.10ft: SURVEY DEPTH 10933'  
INC. 6.0 AZ. 241.7  
10987.01ft: ZERO ALL PUMPS from  
SideKick sk-06-03-2616  
10987.01ft: ZERO ALL PUMPS from  
SideKick sk-06-03-2616  
10987.01ft: MUD VIS 66.00  
10987.01ft: MUD WEIGHT 9.90  
10987.01ft: MUD PH 10.30  
10987.01ft: TRANSFERRED 240.00  
10987.01ft: ZERO ALL PUMPS from  
SideKick sk-06-03-2616  
10987.01ft: ZERO ALL PUMPS from  
SideKick sk-06-03-2616  
10987.01ft: ZERO ALL PUMPS from  
SideKick sk-06-03-2616  
10987.01ft: ZERO ALL PUMPS from  
SideKick sk-06-03-2616  
10987.01ft: MUD VIS 52.00  
10987.01ft: MUD WEIGHT 9.85  
10987.01ft: MUD PH 9.80  
10987.01ft: HOOKLOAD WAS  
RECALIBRATED  
10987.01ft: HOOK LOAD  
THRESHOLD RECALIBRATED TO  
47  
10987.01ft: BIT DEPTH CHANGED  
TO 4413.2 FEET  
10987.01ft: ZERO ALL PUMPS from  
SideKick sk-06-03-2616  
10987.01ft: ZERO ALL PUMPS from  
SideKick sk-06-03-2616  
10987.01ft: MUD VIS 53.00  
10987.01ft: MUD WEIGHT 9.85  
10987.01ft: MUD PH 9.70  
10987.01ft: ZERO ALL PUMPS from  
SideKick sk-06-03-2616  
10987.01ft: MUD VIS 53.00  
10987.01ft: MUD PH 9.50  
10987.01ft: BIT DEPTH CHANGED  
TO 110.0 FEET  
10987.01ft: ZERO ALL PUMPS from  
SideKick sk-06-03-2616  
10987.01ft: MUD VIS 52.00  
10987.01ft: MUD WEIGHT 9.80  
10987.01ft: MUD PH 9.50  
10987.01ft: BIT DEPTH CHANGED  
TO 19.0 FEET  
10987.01ft: BIT DEPTH CHANGED  
TO 937.0 FEET  
10987.01ft: ZERO ALL PUMPS from  
SideKick sk-06-03-2616  
10987.01ft: ZERO ALL PUMPS from  
SideKick sk-06-03-2616  
10987.01ft: BIT DEPTH CHANGED  
TO 2054.0 FEET  
10987.01ft: MUD VIS 47.00  
10987.01ft: MUD WEIGHT 9.80  
10987.01ft: MUD PH 8.90  
10987.01ft: ZERO ALL PUMPS from  
SideKick sk-06-03-2616  
10987.01ft: MUD VIS 53.00  
10987.01ft: MUD WEIGHT 9.80  
10987.01ft: MUD PH 8.80  
10987.01ft: ZWOB from DHC  
10987.01ft: ZERO ALL PUMPS from  
SideKick sk-06-03-2616  
10987.01ft: BIT DEPTH CHANGED  
TO 5031.0 FEET  
10987.01ft: ZERO ALL PUMPS from  
SideKick sk-06-03-2616  
10987.01ft: BIT DEPTH CHANGED  
TO 5400.0 FEET  
10987.01ft: MUD VIS 55.00  
10987.01ft: MUD WEIGHT 9.80  
10987.01ft: MUD PH 8.70  
10987.70ft: ZDIFF from DHC  
10987.70ft: FLOW CHECK BLOW  
DOWN KELLY  
10987.70ft: ZERO ALL PUMPS from  
SideKick sk-06-03-2616  
10987.70ft: MUD WEIGHT 9.85  
10987.70ft: PULL R/HEAD  
10987.70ft: FILL CASING  
10987.70ft: PICK UP TAW OOL  
10987.70ft: FILL CASING  
10987.70ft: BLOW DOWN T/DRIVE  
10987.70ft: Repair Pipe Wrangler