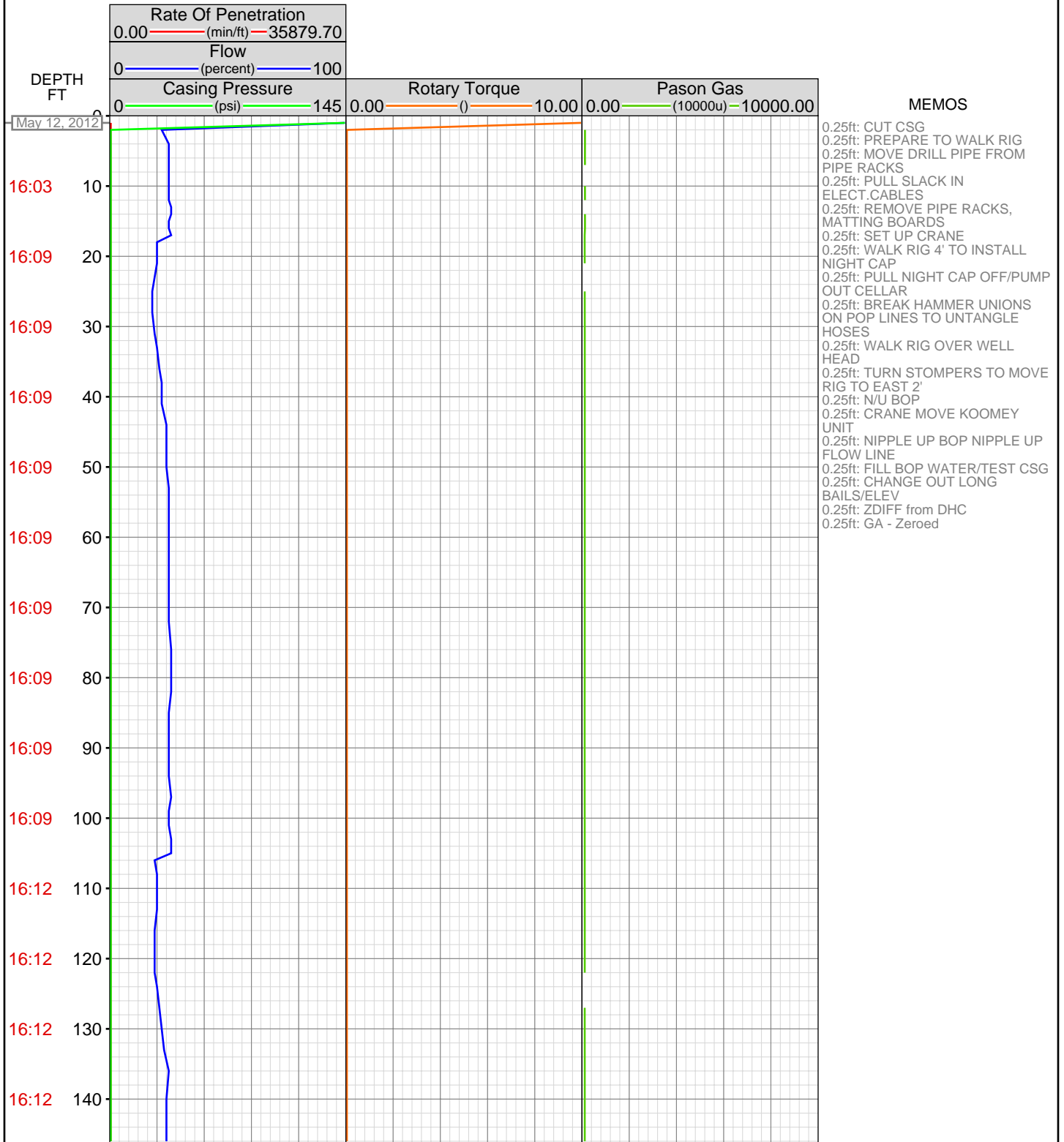


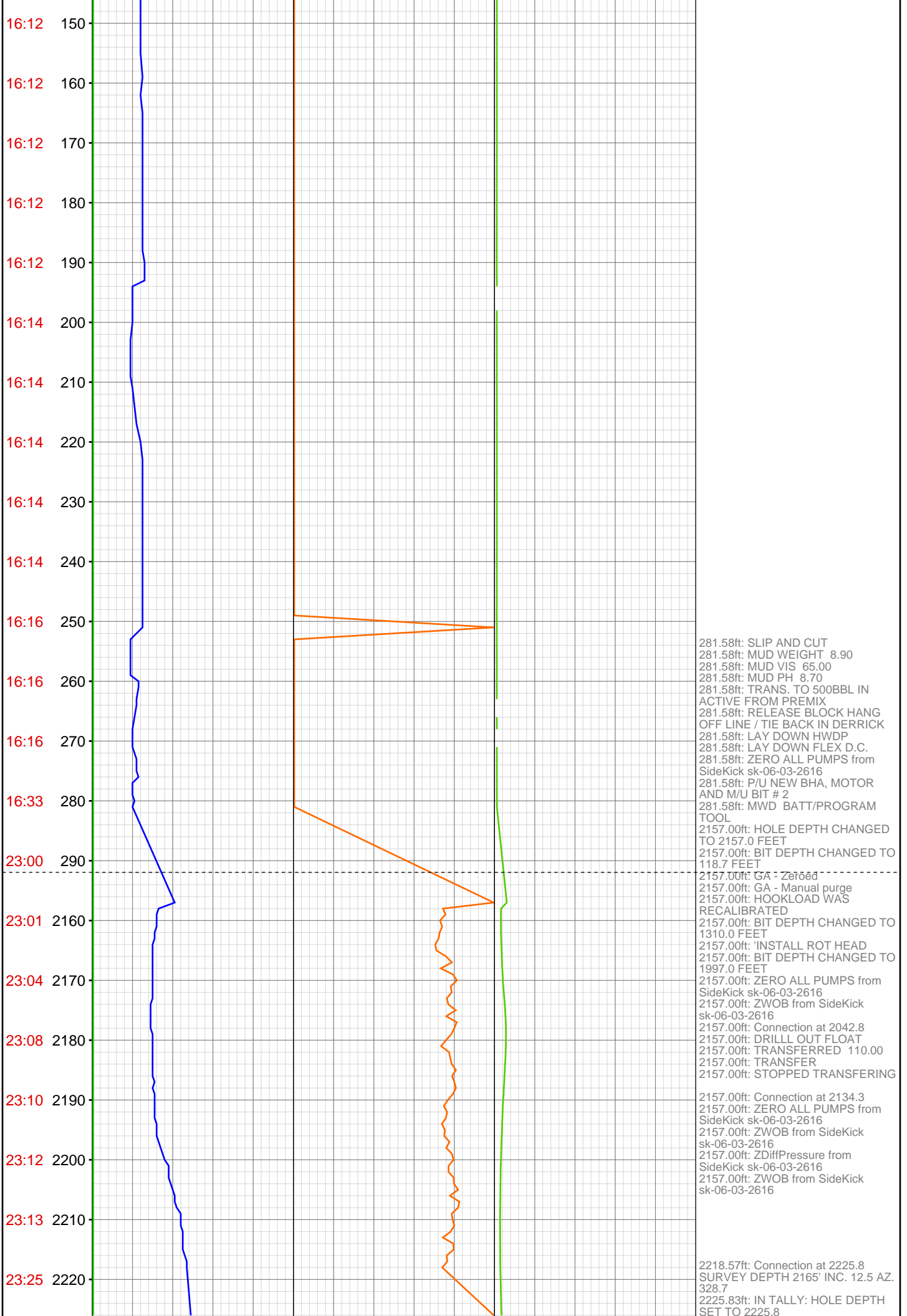
DataHub EDR Log

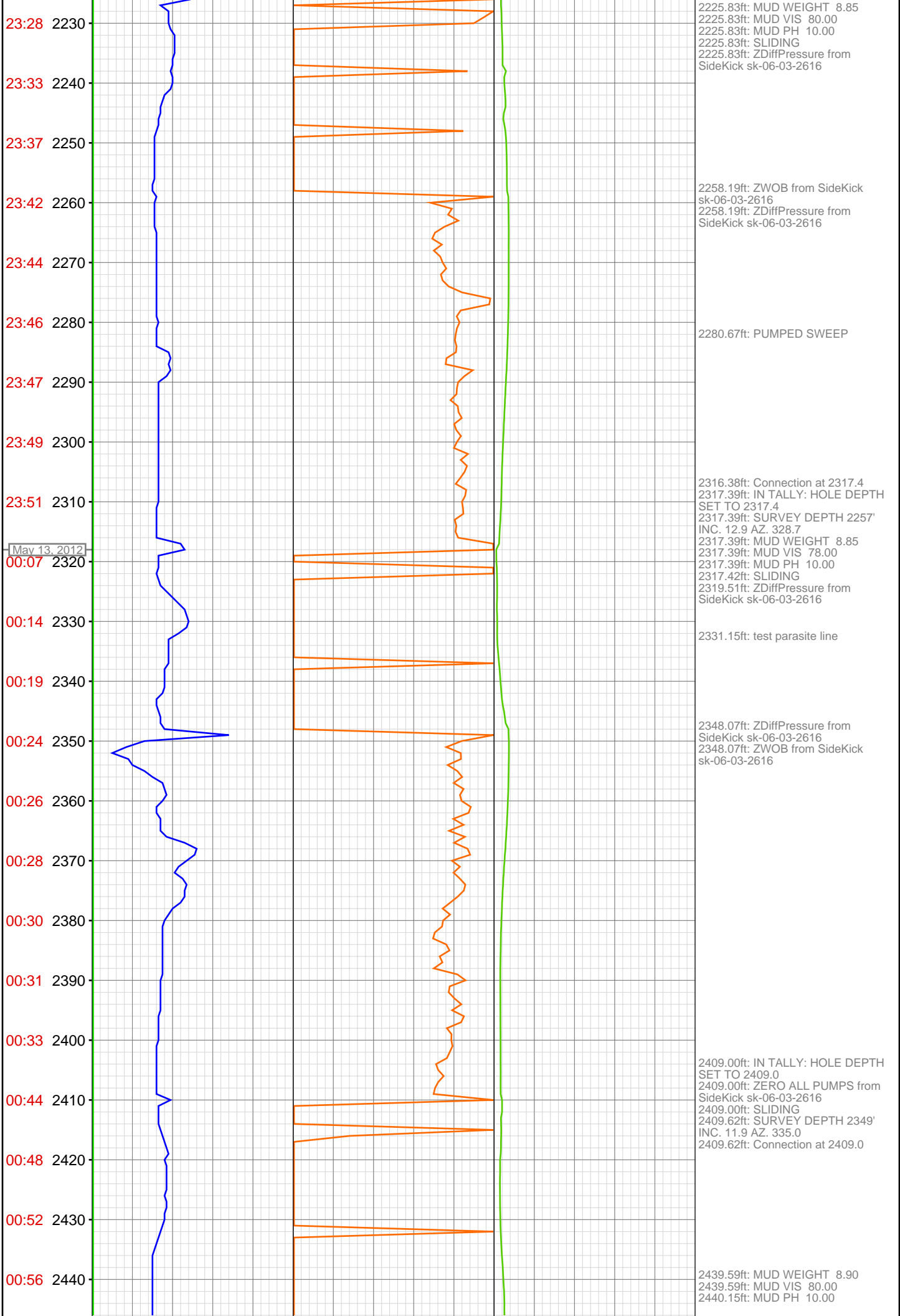
Mon May 21, 2012 10:21:42
Well Dossier 1336795950
Marilyn Tucker

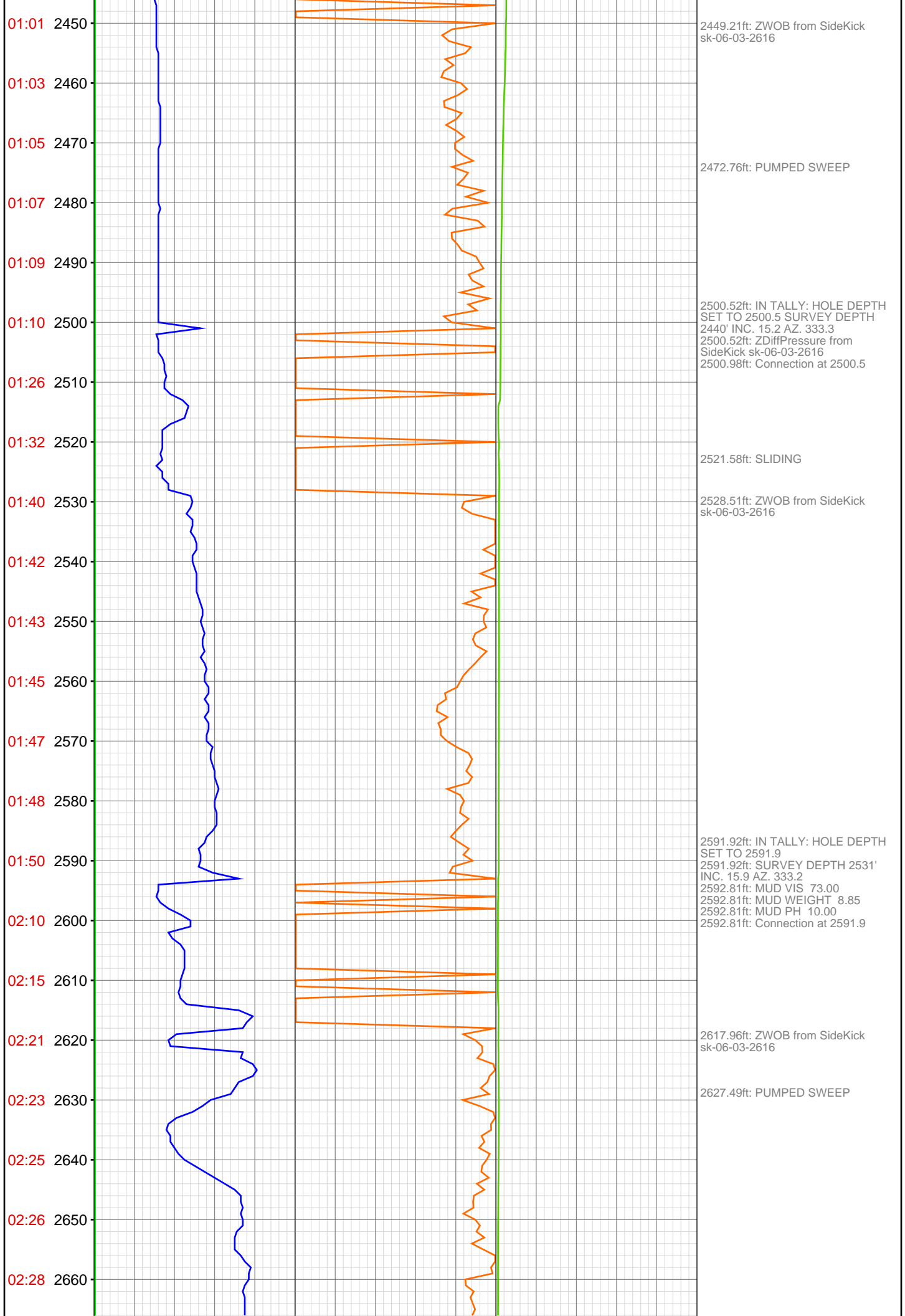
OPERATOR: EnCana Oil & Gas (USA), Inc.
WELL: DOUBLE WILLOW 8609C-28 P28 496
FIELD:
LOCATION: SEC.36T4S RNG96W
COUNTRY: USA
RIG: Pat-UTI 308

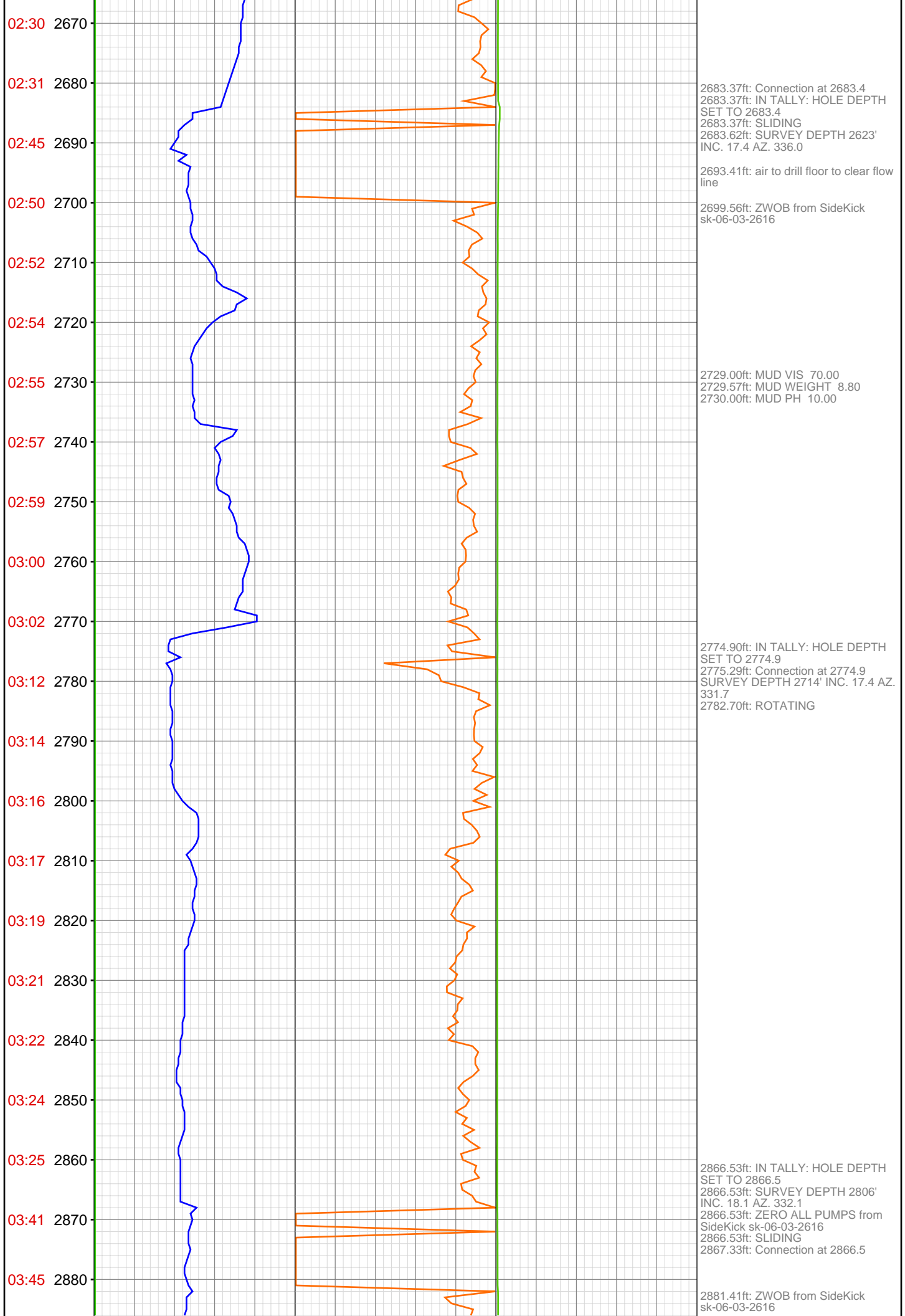
CONTRACTOR: Patterson-UTI Drilling Company
UNIQUE WELL ID: 504520802
SPUD DATE: May 12, 2012 18:00
RELEASE DATE: May 19, 2012 04:00

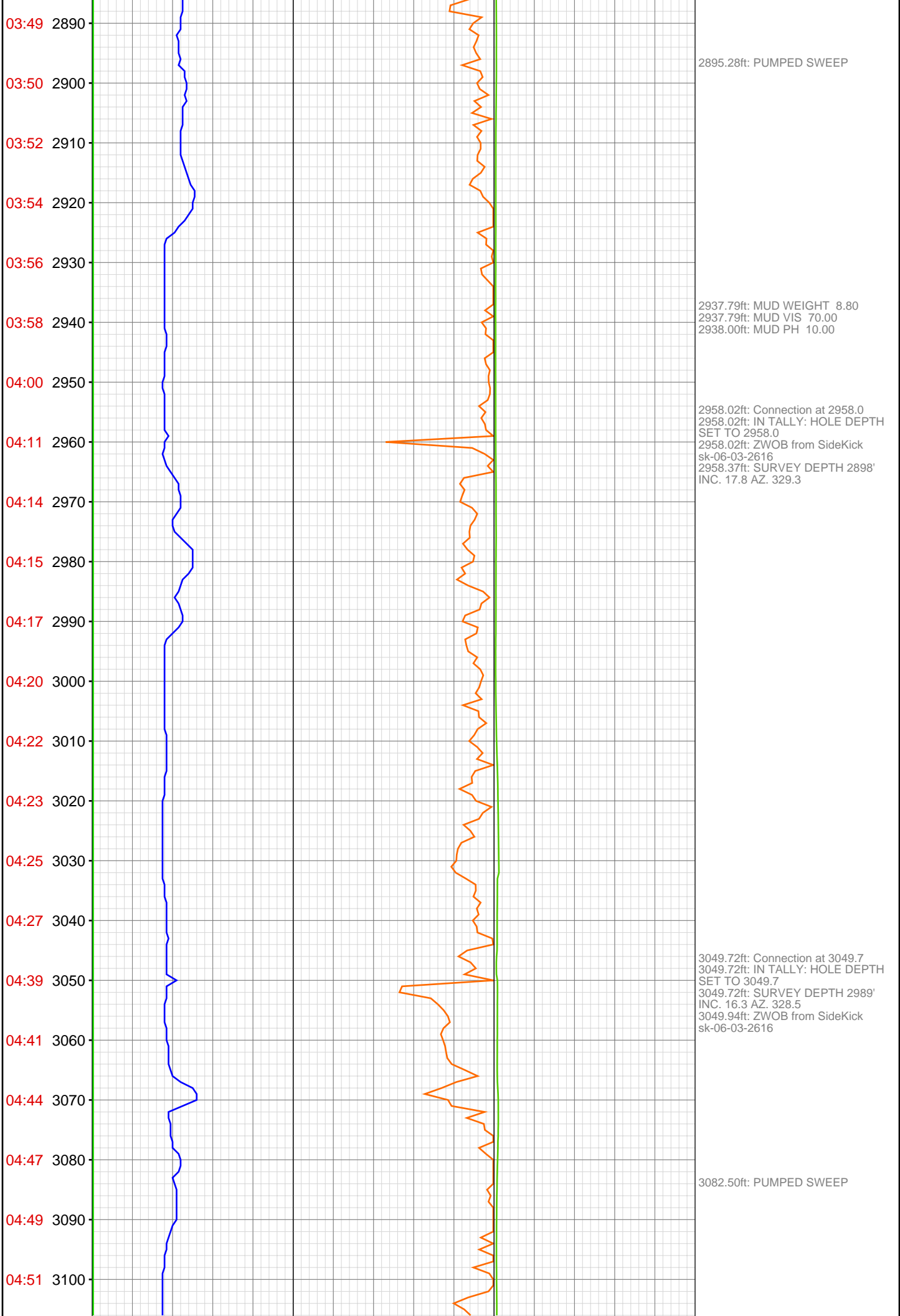


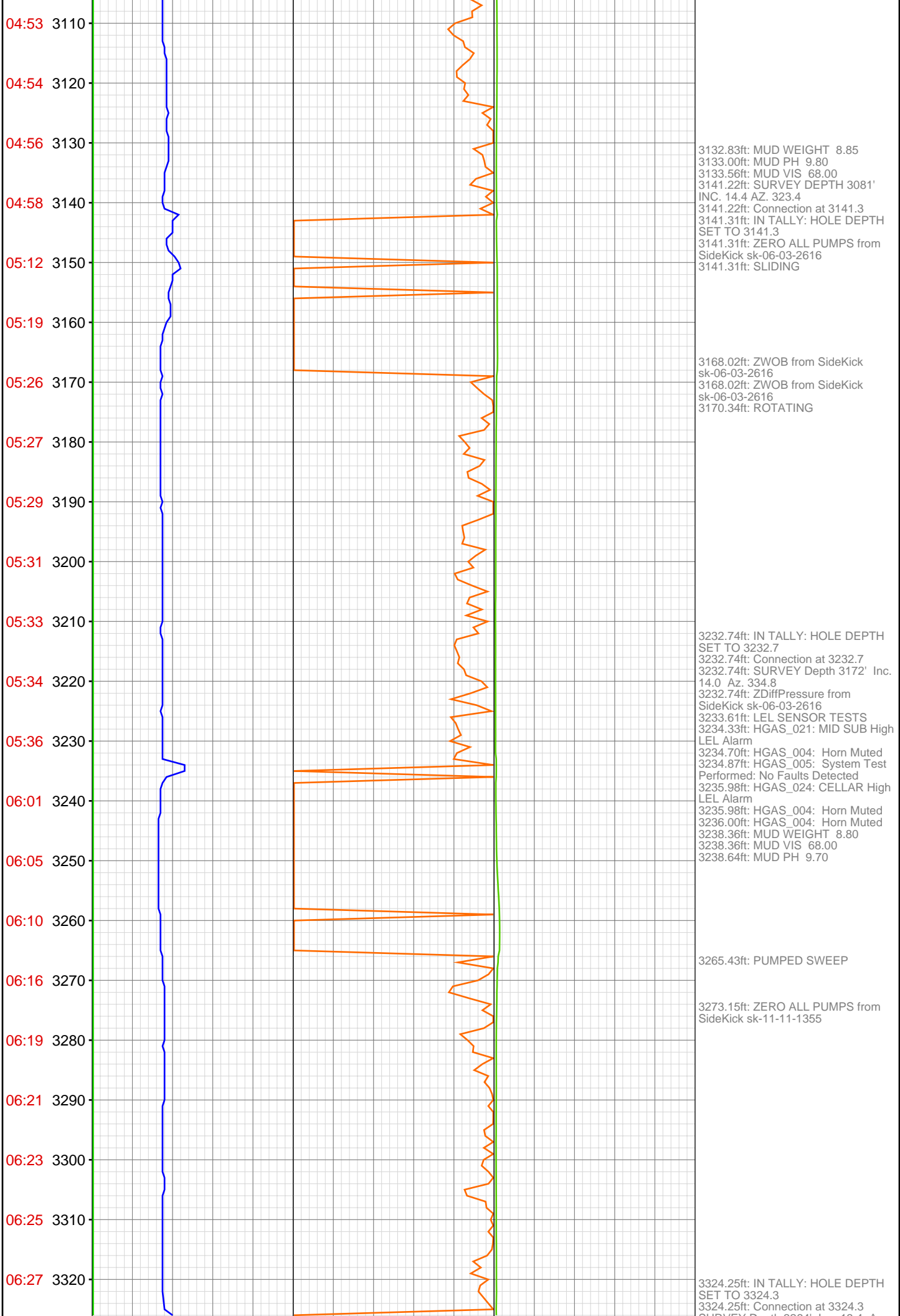


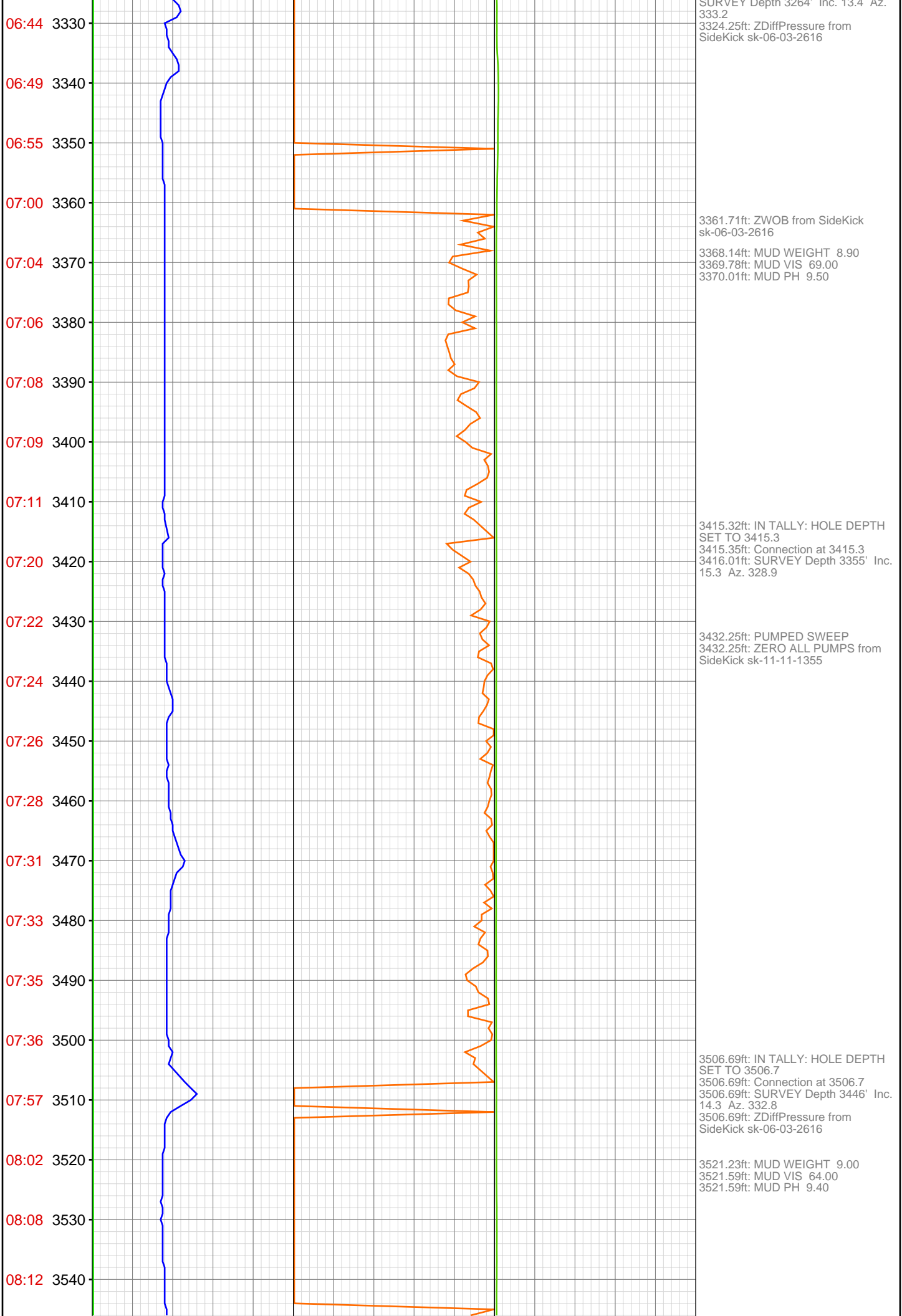


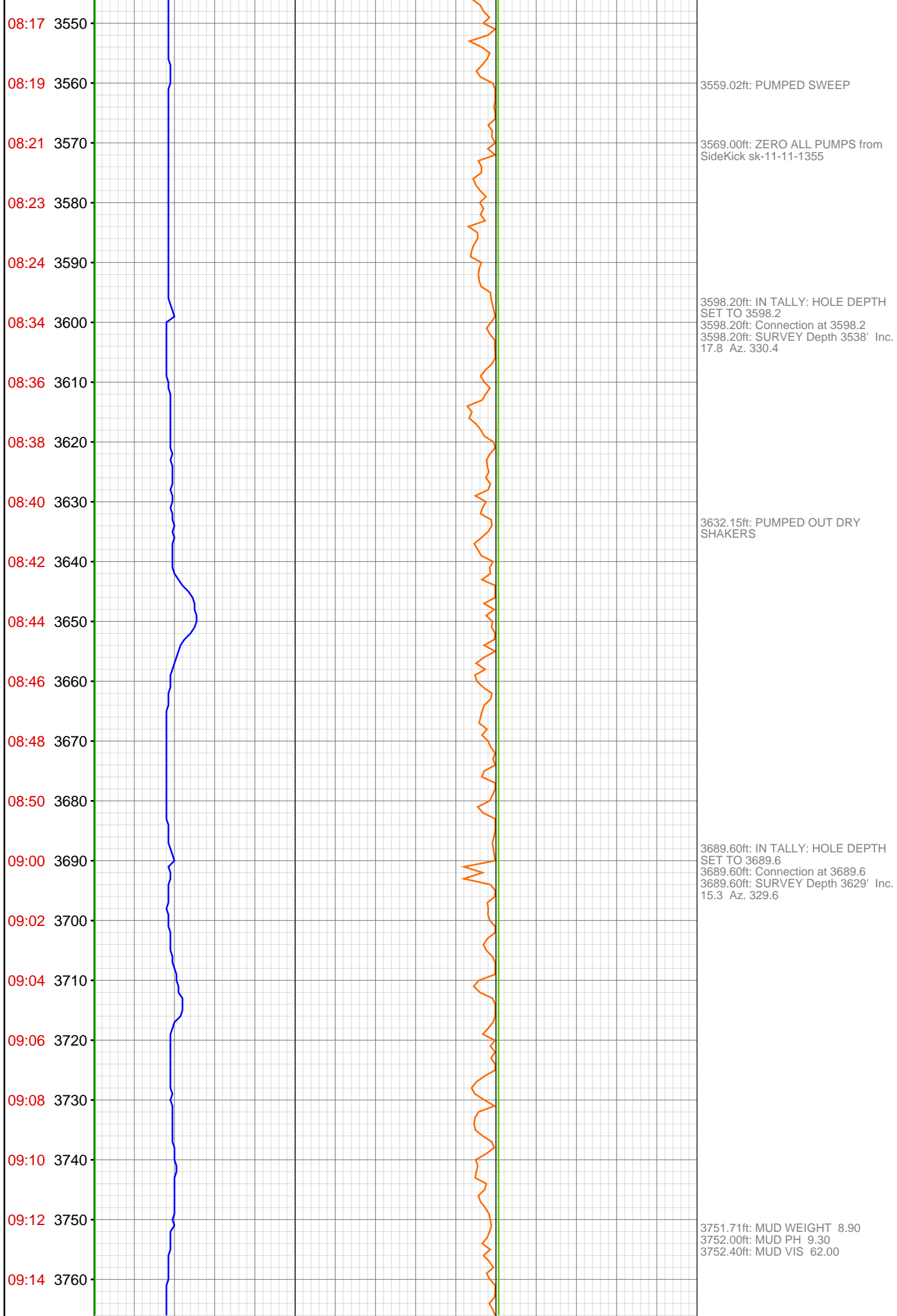












09:16 3770

09:29 3780

09:35 3790

09:39 3800

09:43 3810

09:47 3820

09:50 3830

09:52 3840

09:53 3850

09:55 3860

09:57 3870

10:08 3880

10:10 3890

10:12 3900

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10:21 3940

10:22 3950

10:24 3960

10:43 3970

10:49 3980

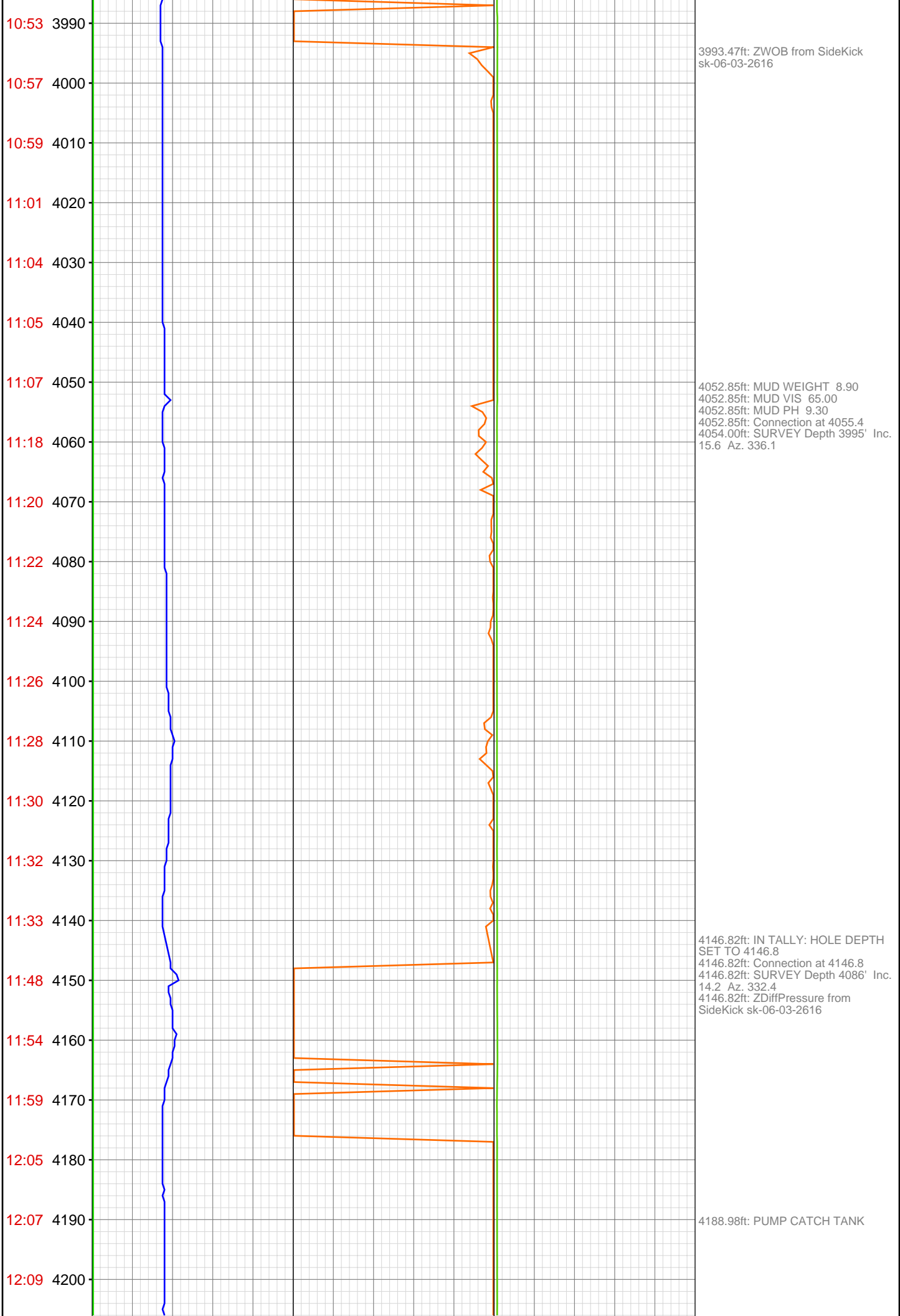


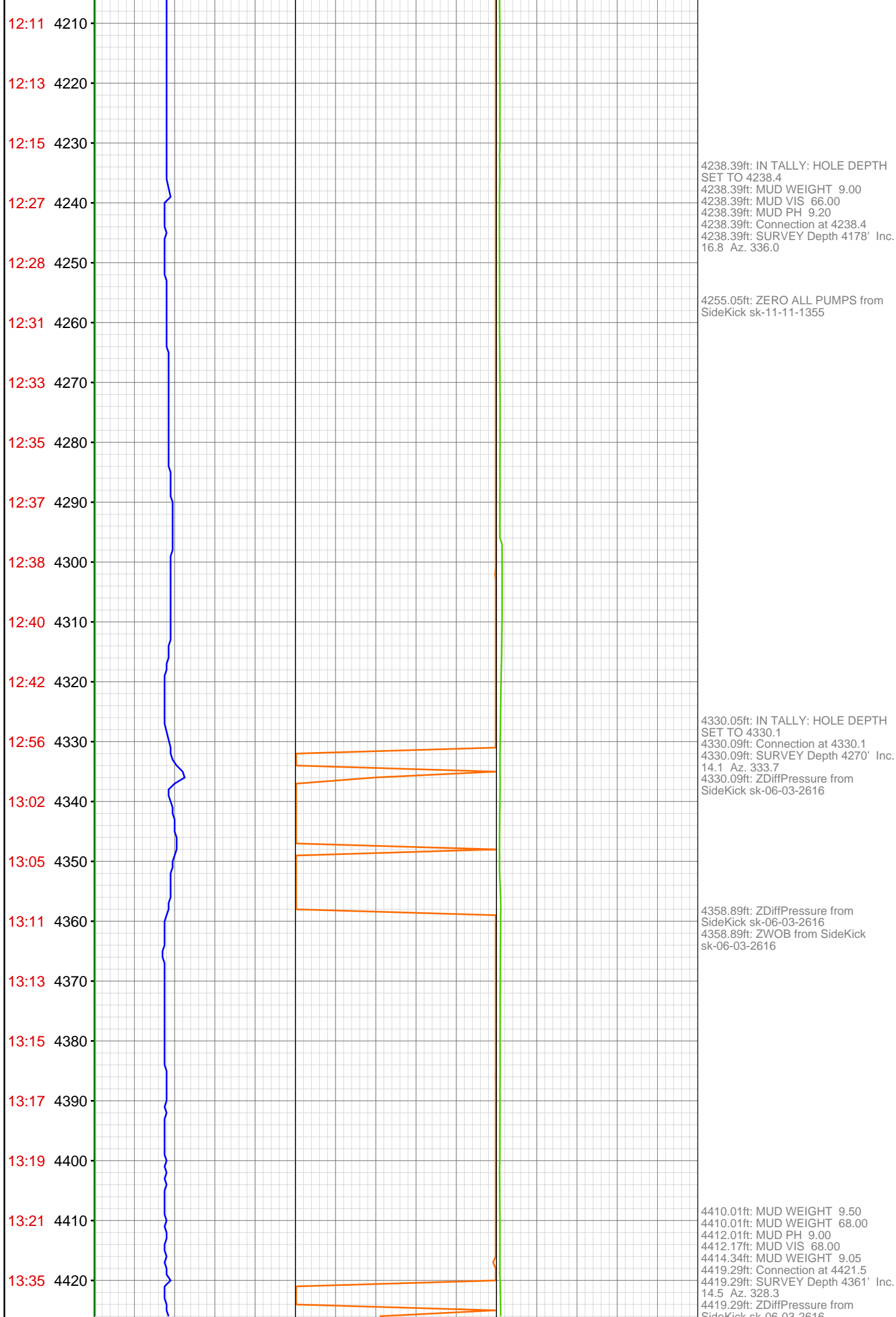
3781.10ft: IN TALLY: HOLE DEPTH
SET TO 3781.1
3781.10ft: Connection at 3781.1
3781.10ft: ZDiffPressure from
SideKick sk-06-03-2616
3781.10ft: SURVEY Depth 3721' Inc.
13.4 326.1
3781.10ft: ZDiffPressure from
SideKick sk-06-03-2616

3872.61ft: IN TALLY: HOLE DEPTH
SET TO 3872.6
3872.61ft: Connection at 3872.6
3872.61ft: SURVEY Depth 3812' Inc.
16.9 Az. 334.7
3872.61ft: MUD WEIGHT 8.90
3872.61ft: MUD VIS 61.00
3872.61ft: MUD PH 9.00

3884.06ft: ZERO ALL PUMPS from
SideKick sk-11-11-1355

3963.88ft: IN TALLY: HOLE DEPTH
SET TO 3963.9
3963.88ft: Connection at 3963.9
3963.88ft: SURVEY Depth 3903' Inc.
13.8 Az. 331.2
3963.88ft: ZDiffPressure from
SideKick sk-06-03-2616





13:41 4430
13:46 4440
13:49 4450
13:58 4460
14:00 4470
14:02 4480
14:04 4490
14:06 4500
14:16 4510
14:18 4520
14:20 4530
14:22 4540
14:24 4550
14:26 4560
14:28 4570
14:31 4580
14:34 4590
14:36 4600
14:46 4610
14:49 4620
14:51 4630
14:53 4640



4512.93ft: IN TALLY: HOLE DEPTH
SET TO 4512.9
4512.93ft: Connection at 4512.9
4512.93ft: SURVEY Depth 4452' Inc.
15.6 Az. 328.1

4556.00ft: MUD WEIGHT 9.10
4556.99ft: MUD VIS 65.00
4558.17ft: MUD PH 8.90

4604.46ft: IN TALLY: HOLE DEPTH
SET TO 4604.5
4604.46ft: Connection at 4604.5
4604.46ft: SURVEY Depth 4544' Inc.
14.6 Az. 325.1

14:55 4650
14:57 4660
14:59 4670
15:01 4680
15:03 4690
15:19 4700
15:24 4710
15:30 4720
15:38 4730
15:40 4740
15:42 4750
15:45 4760
15:47 4770
15:49 4780
16:05 4790
16:08 4800
16:11 4810
16:13 4820
16:17 4830
16:20 4840
16:23 4850
16:26 4860

4696.10ft: IN TALLY: HOLE DEPTH
SET TO 4696.1
4696.10ft: Connection at 4696.1
4696.10ft: SURVEY Depth 4636' Inc.
12.8 Az. 324.5
4697.11ft: MUD WEIGHT 9.10
4697.11ft: MUD VIS 64.00
4697.11ft: MUD PH 9.00

4787.86ft: IN TALLY: HOLE DEPTH
SET TO 4787.9
4787.86ft: Connection at 4787.9
4787.86ft: SURVEY Depth 4727' Inc.
16.6 Az. 333.0

4802.17ft: TRANSFERRED 100.00

4815.72ft: OUT

4825.13ft: TRANSFER COMPLETE

4857.97ft: PUMP CATCH TANK

16:28 4870
17:01 4880
17:03 4890
17:05 4900
17:07 4910
17:09 4920
17:12 4930
17:14 4940
17:16 4950
17:18 4960
17:34 4970
17:44 4980
17:50 4990
17:55 5000
18:00 5010
18:01 5020
18:03 5030
18:05 5040
18:06 5050
18:08 5060
18:22 5070
18:24 5080

4879.46ft: IN TALLY: HOLE DEPTH
SET TO 4879.5
4879.46ft: RIG SERVICE
4879.46ft: ZERO ALL PUMPS from
SideKick sk-11-11-1355
4879.46ft: Connection at 4879.4
4879.46ft: SURVEY Depth 4819' Inc.
15.7 Az. 334.3

4971.06ft: IN TALLY: HOLE DEPTH
SET TO 4971.1
4971.06ft: Connection at 4971.1
4971.06ft: SURVEY DPTH 4911' INC.
13.0 AZ. 331.0

5004.00ft: MUD WEIGHT 9.20
5004.20ft: MUD VIS 65.00
5004.79ft: MUD PH 8.50
5005.68ft: ZWOB from SideKick
sk-06-03-2616

5016.73ft: ROTATING

5060.11ft: SURVEY DEPTH 5002'
INC. 15.3 AZ. 333.9
5060.11ft: Connection at 5062.4
5062.43ft: IN TALLY: HOLE DEPTH
SET TO 5062.4
5062.43ft: ZERO ALL PUMPS from
SideKick sk-06-03-2616
5062.43ft: PUMPED SWEEP
5062.70ft: ZWOB from SideKick
sk-06-03-2616

18:27 5090
18:30 5100
18:31 5110
18:33 5120
18:35 5130
18:37 5140
18:39 5150
18:54 5160
19:01 5170
19:11 5180
19:16 5190
19:19 5200
19:21 5210
19:23 5220
19:25 5230
19:29 5240
19:43 5250
19:52 5260
20:01 5270
20:11 5280
20:13 5290
20:15 5300

5153.97ft: Connection at 5154.0
5153.97ft: IN TALLY: HOLE DEPTH
SET TO 5154.0
5153.97ft: ZERO ALL PUMPS from
SideKick sk-06-03-2616
5153.97ft: SLIDING
5153.97ft: P/U 160 S/O 110 ROT
126 OBP 2070 PSI TQ 9000
STOPPED TRANSFERING
5154.30ft: TRANSFER PUMP OUT
CATCH TANK
5154.30ft: SURVEY DEPTH 5093'
INC. 13.4 AZ. 334.6
5169.78ft: MUD VIS 60.00
5169.85ft: MUD WEIGHT 9.20
5169.85ft: MUD PH 9.50

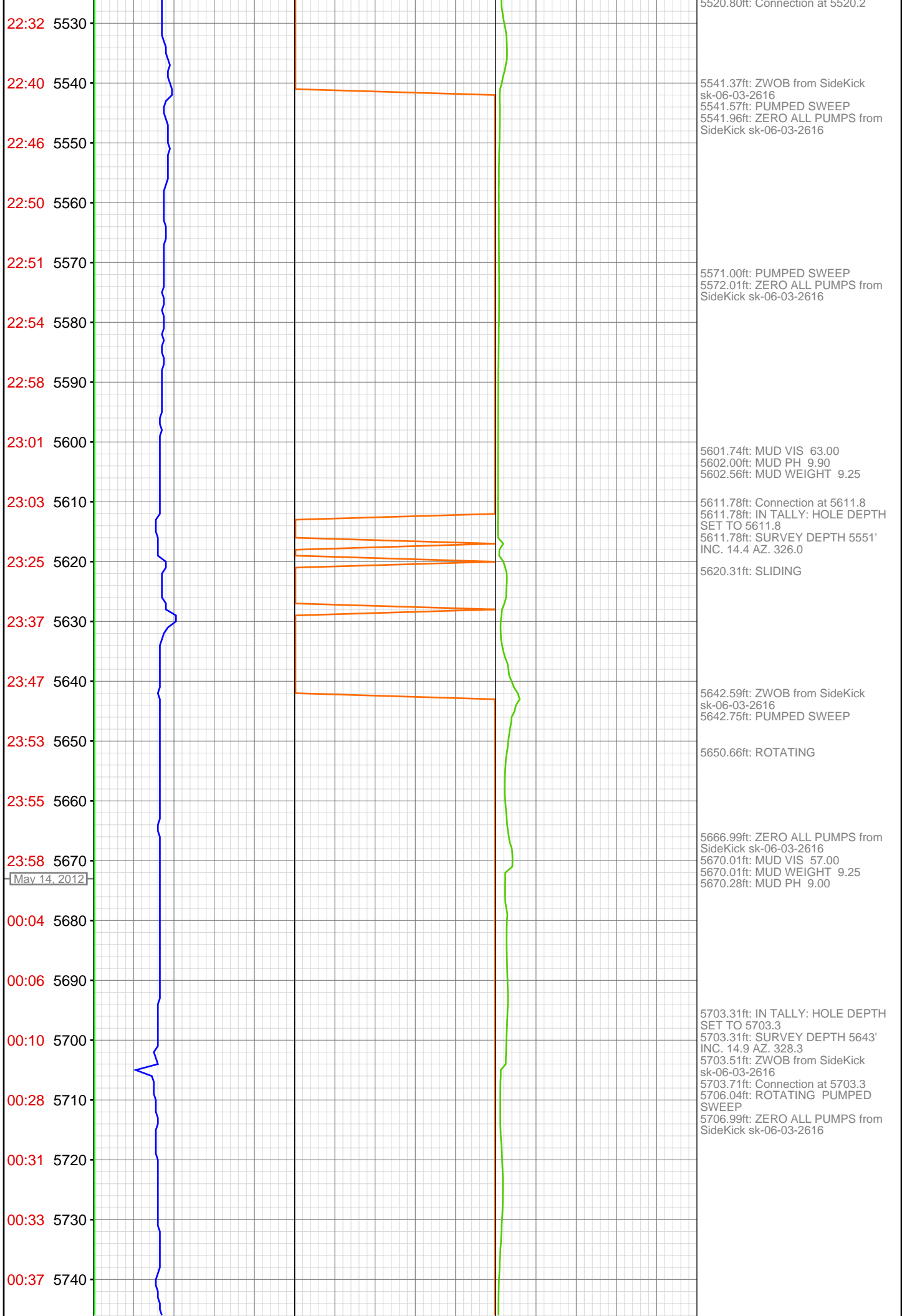
5183.04ft: ZWOB from SideKick
sk-06-03-2616
5185.89ft: PUMPED SWEEP

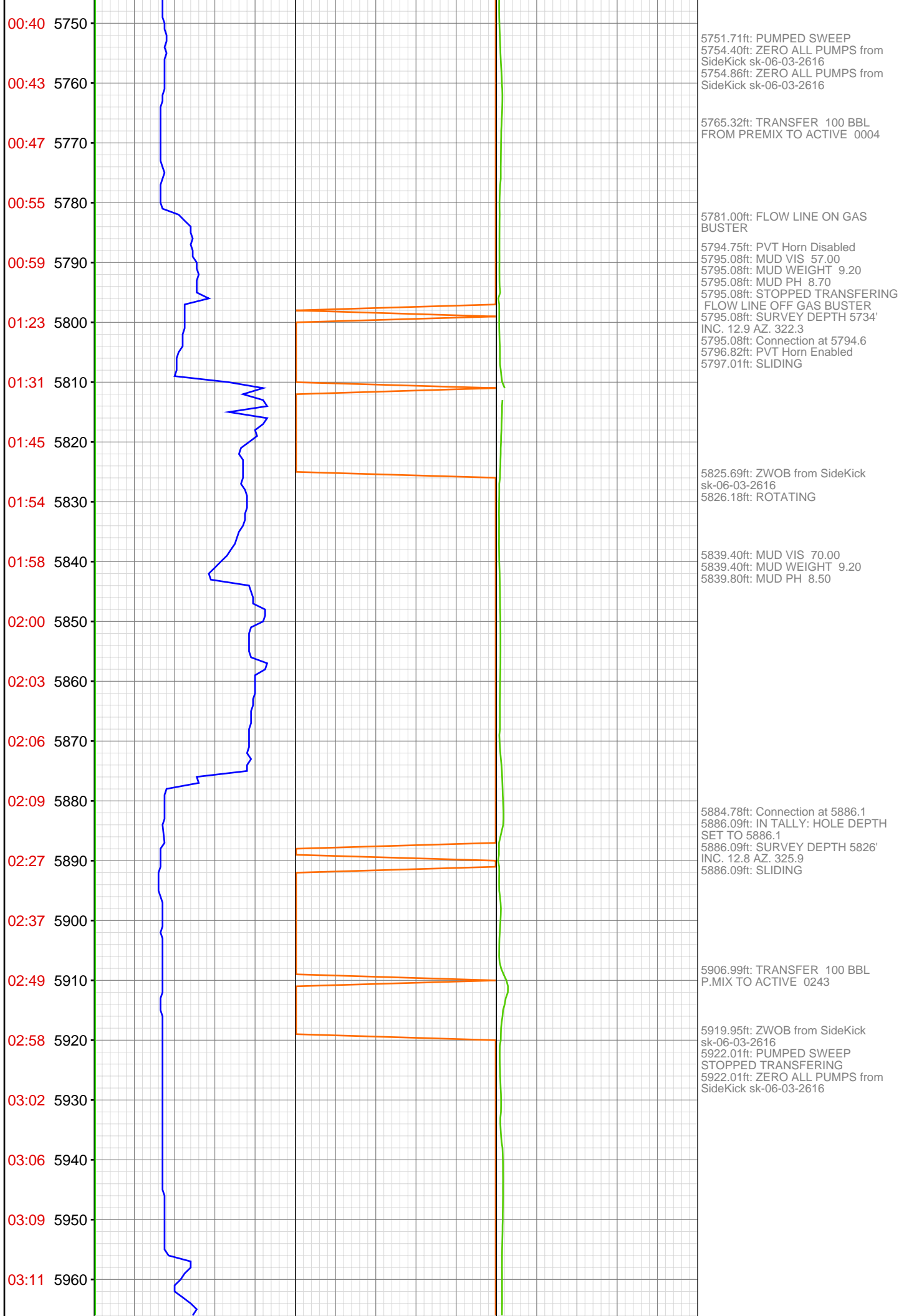
5245.37ft: Connection at 5245.4
5245.37ft: IN TALLY: HOLE DEPTH
SET TO 5245.4
5245.37ft: PVT Horn Enabled
5246.33ft: PVT Horn Disabled
5246.33ft: SURVEY DEPTH 5185'
INC. 13.1 AZ. 327.0
5249.25ft: SLIDING

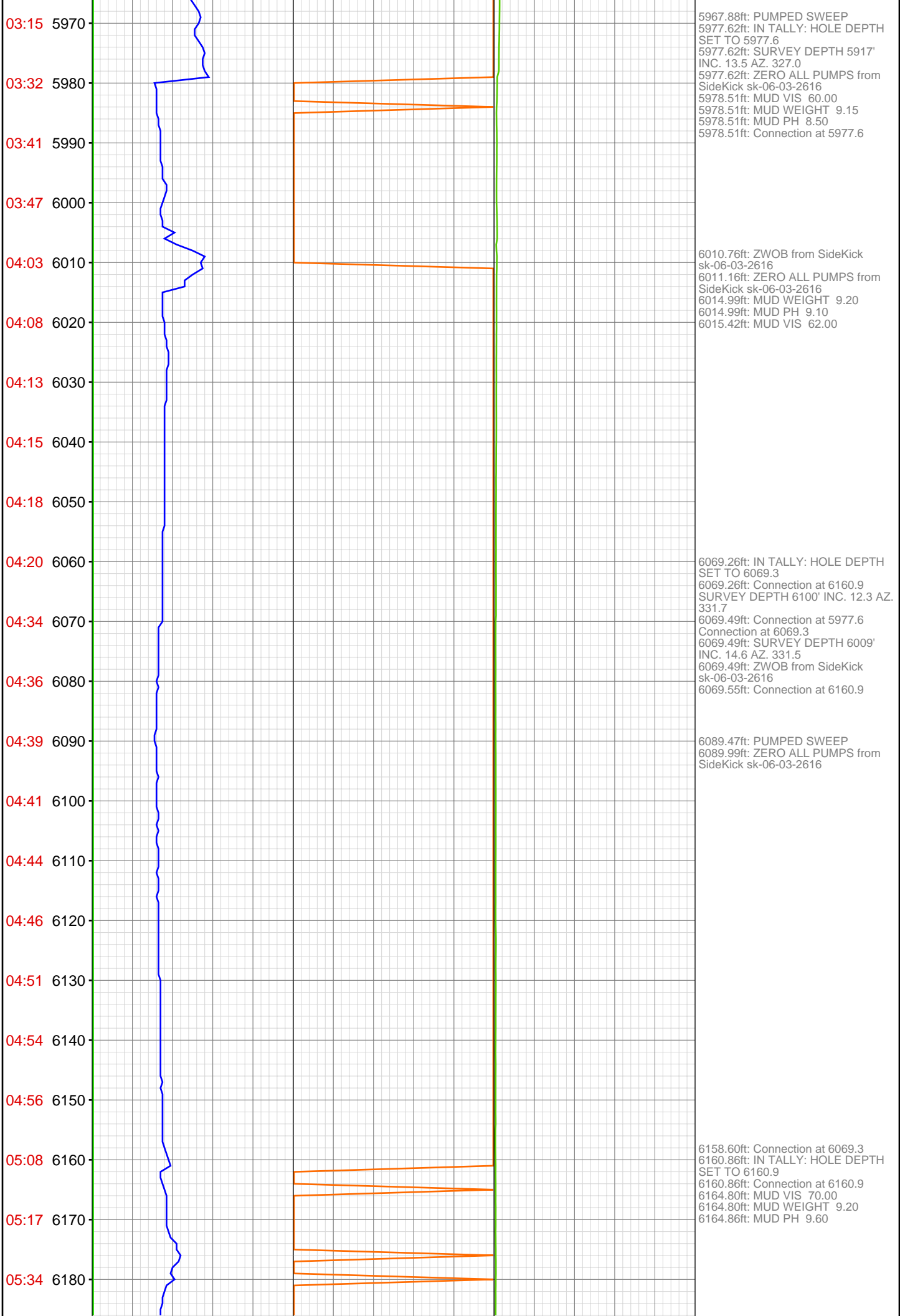
5266.01ft: MUD VIS 63.00
5266.17ft: MUD WEIGHT 9.20
5266.17ft: MUD PH 8.70

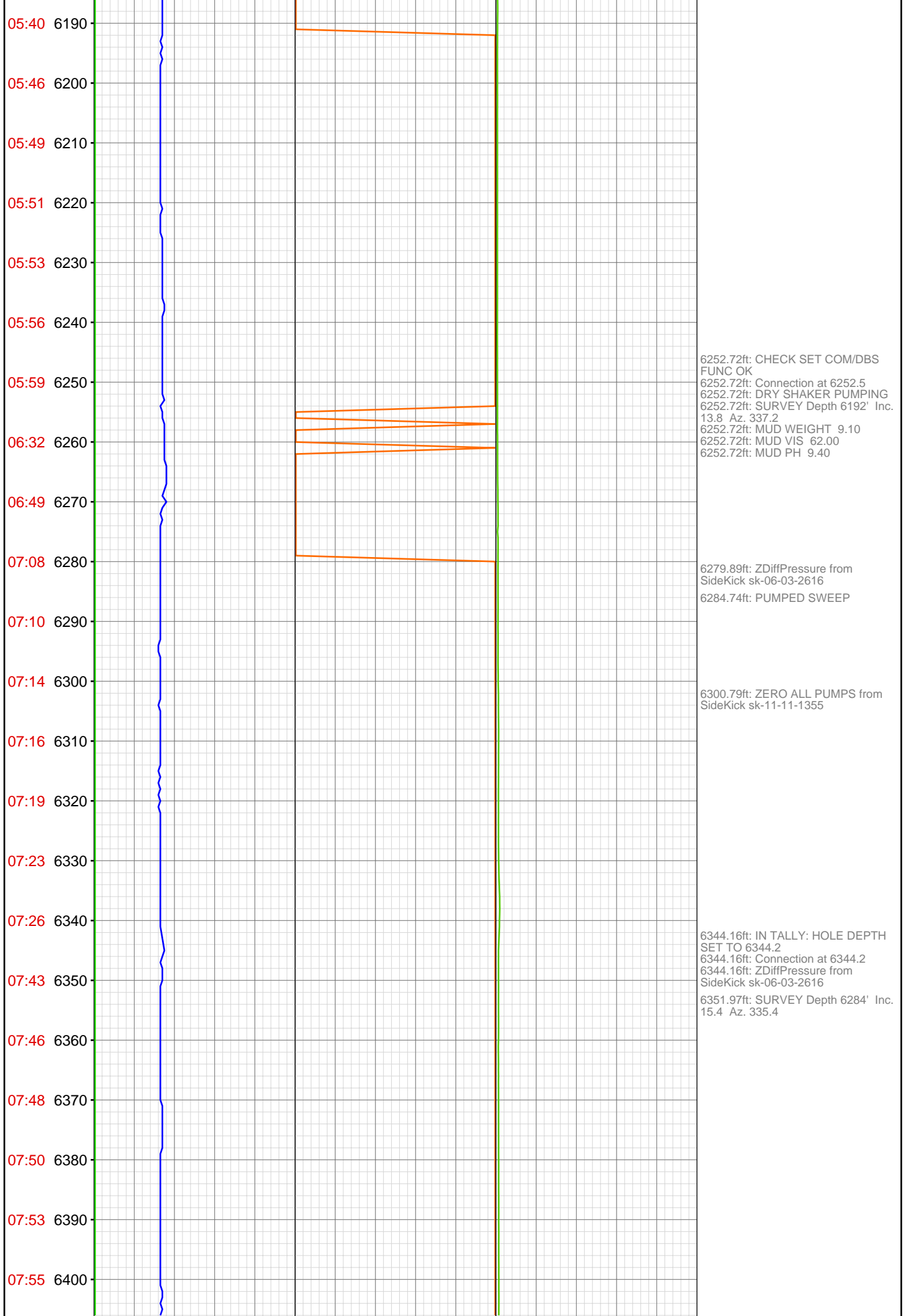
5278.31ft: ZWOB from SideKick
sk-06-03-2616











07:58 6410
08:01 6420
08:04 6430
08:26 6440
08:29 6450
08:32 6460
08:34 6470
08:37 6480
08:40 6490
08:42 6500
08:46 6510
08:49 6520
09:03 6530
09:06 6540
09:08 6550
09:11 6560
09:14 6570
09:16 6580
09:19 6590
09:21 6600
09:23 6610
09:36 6620



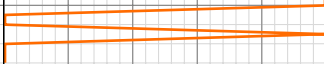
6435.93ft: IN TALLY: HOLE DEPTH
SET TO 6435.9
6435.93ft: Connection at 6435.9
6435.93ft: MUD WEIGHT 9.20
6435.93ft: MUD VIS 64.00
6435.93ft: MUD PH 9.00
6435.93ft: SURVEY Depth 6375' Inc.
14.8 Az. 336.8

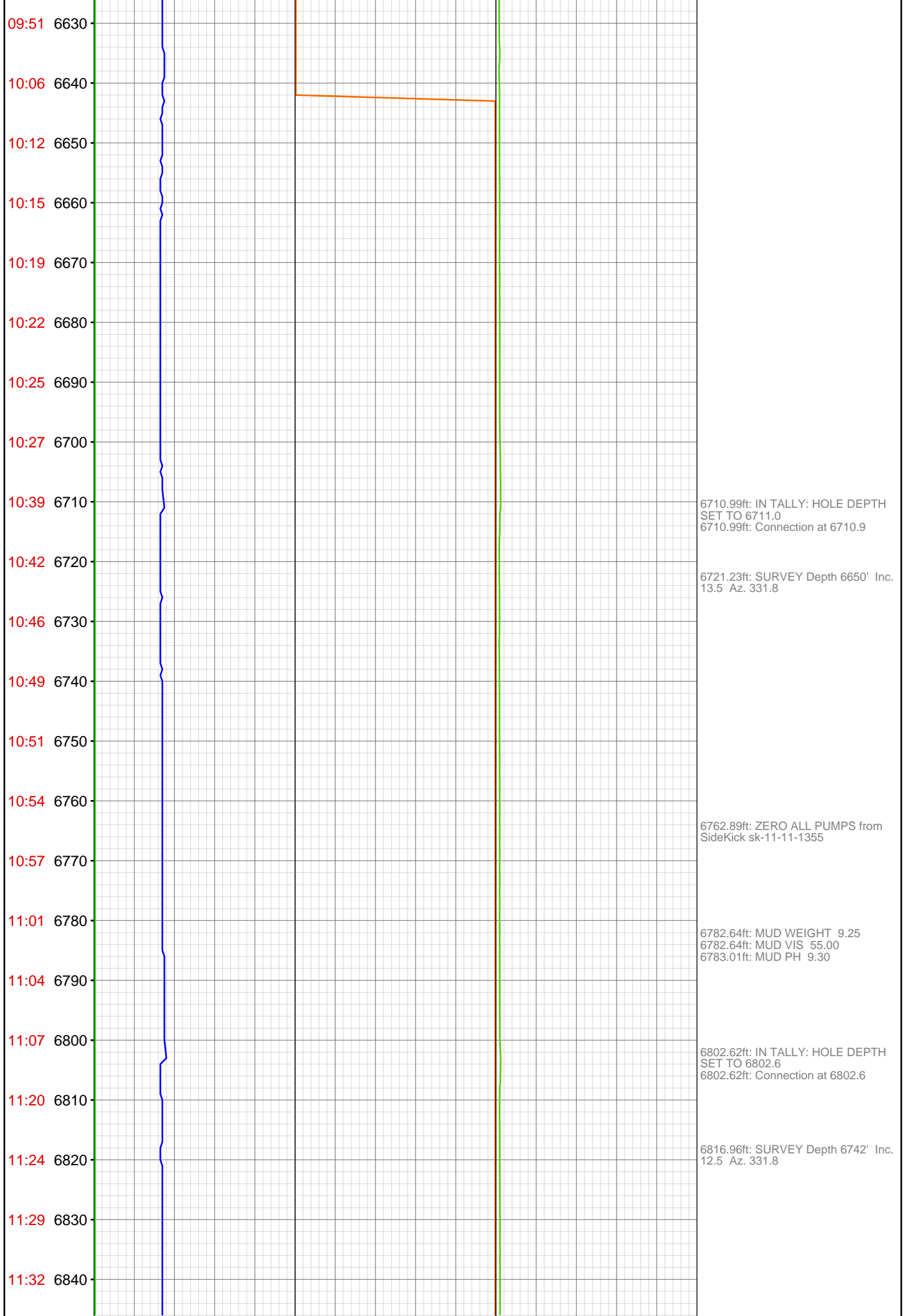
6451.08ft: TRANSFER 100BBLs
6452.99ft: TRANSFERRED 100.00

6512.43ft: TRANSFER COMPLETE

6525.00ft: Connection at 6527.6
6525.00ft: SURVEY Depth 6467' Inc.
13.9 Az. 336.4

6619.29ft: IN TALLY: HOLE DEPTH
SET TO 6619.3
6619.29ft: Connection at 6619.3
6619.29ft: SURVEY Depth 6559' Inc.
12.6 Az. 336.8





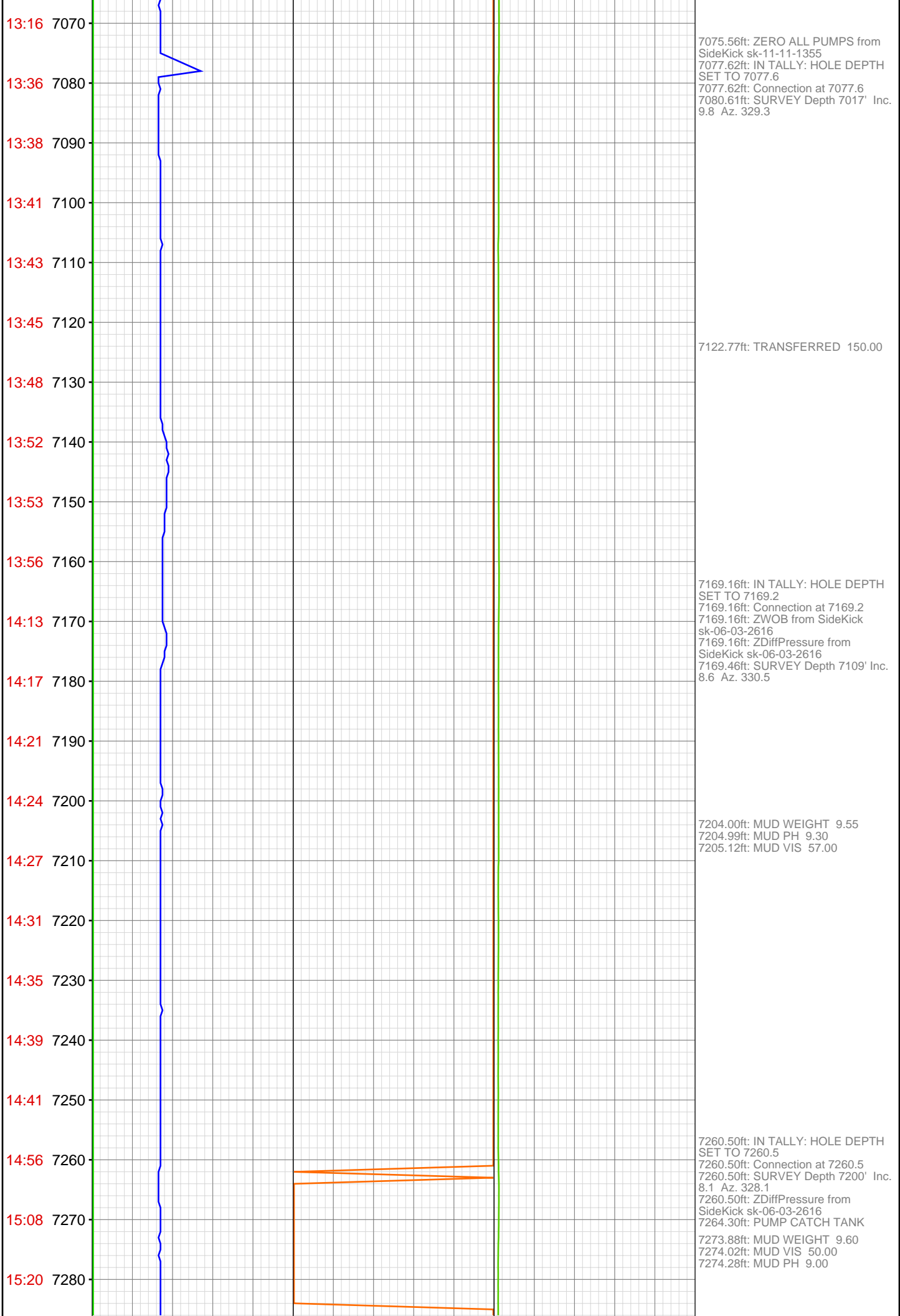
11:35 6850
11:39 6860
11:42 6870
11:47 6880
11:50 6890
12:07 6900
12:10 6910
12:13 6920
12:16 6930
12:19 6940
12:23 6950
12:26 6960
12:29 6970
12:33 6980
12:46 6990
12:51 7000
12:56 7010
13:02 7020
13:07 7030
13:09 7040
13:11 7050
13:13 7060

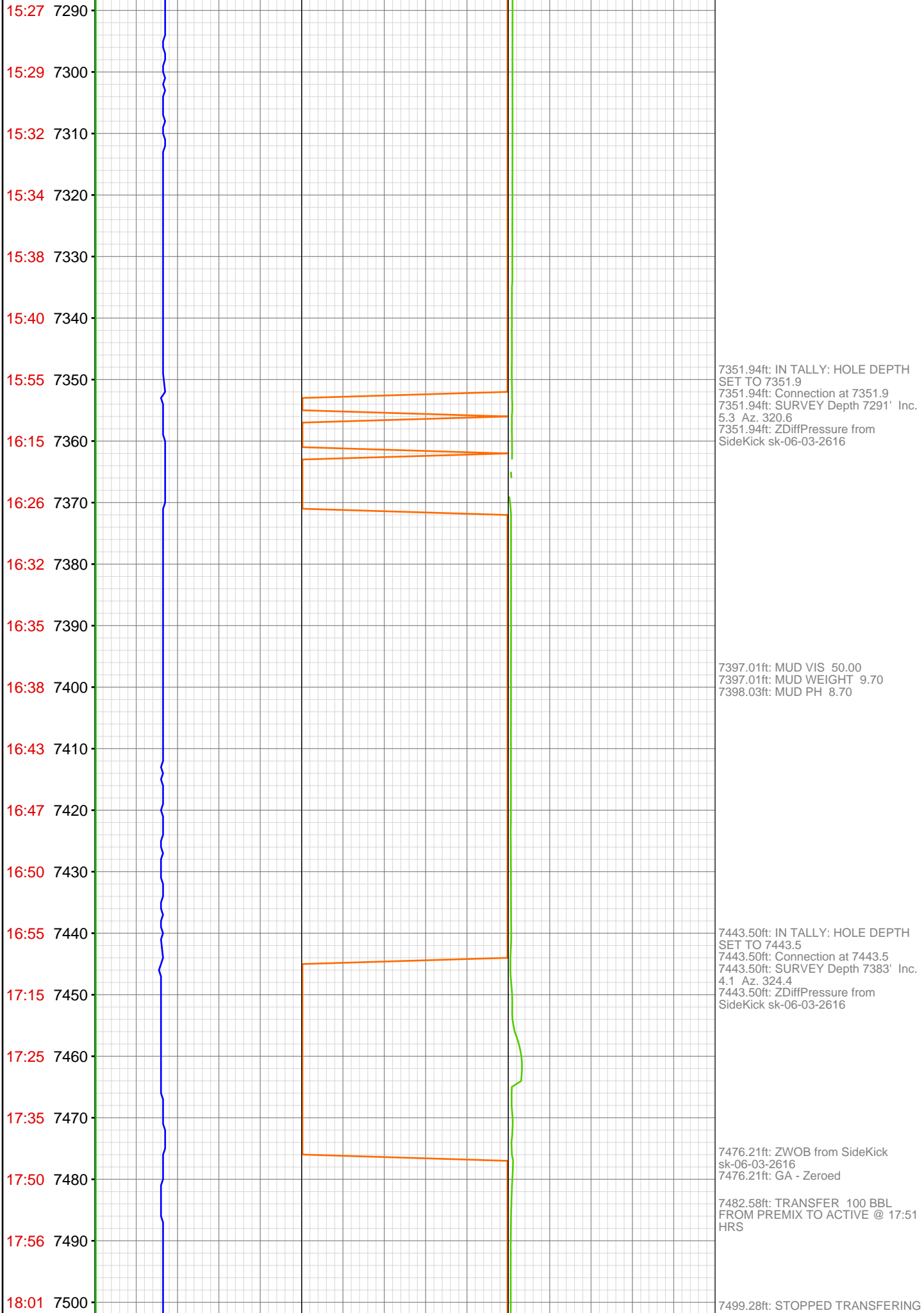
6894.36ft: IN TALLY: HOLE DEPTH
SET TO 6894.4
6894.36ft: Connection at 6894.4
6894.36ft: ZWOB from SideKick
sk-06-03-2616

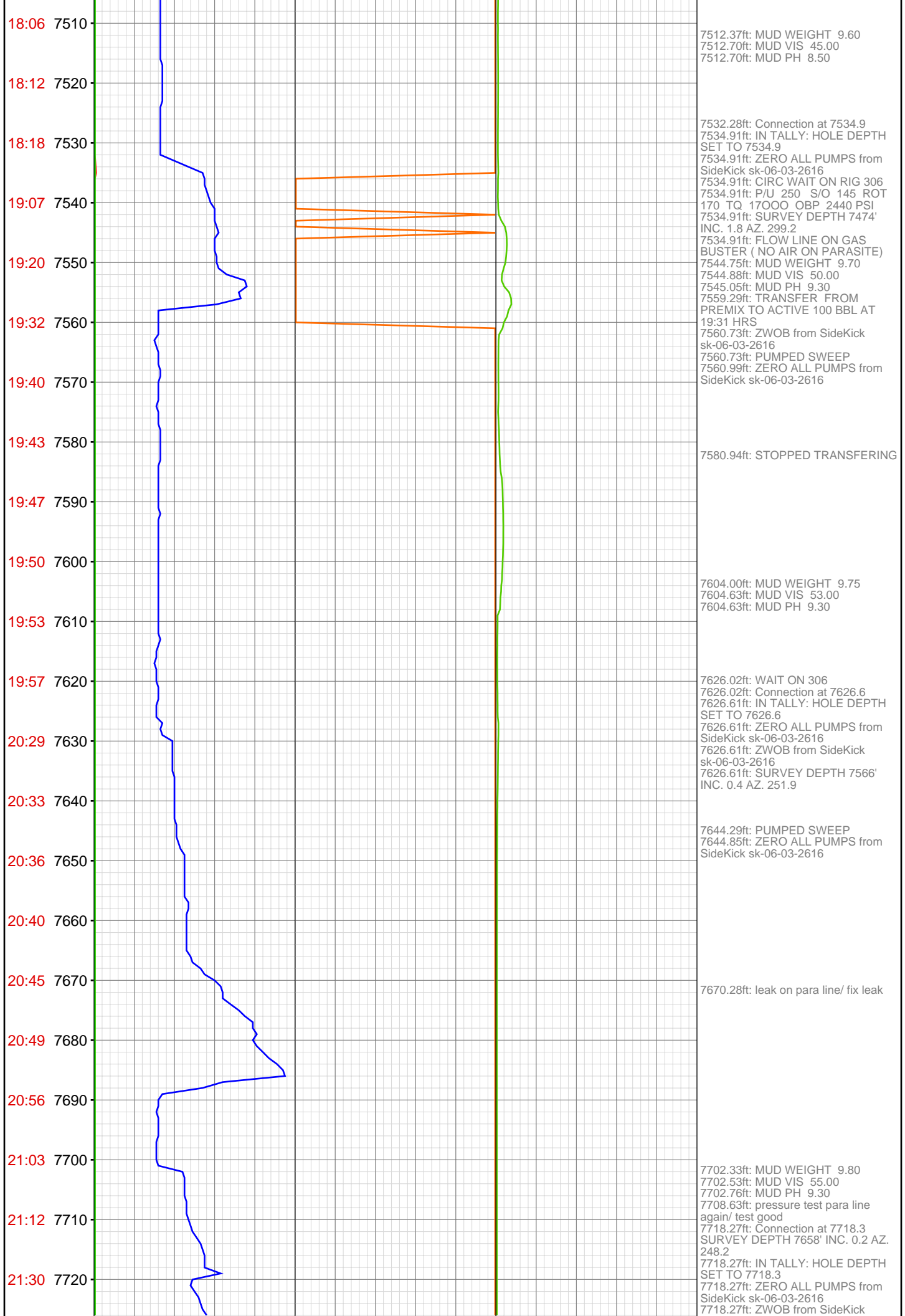
6910.01ft: MUD WEIGHT 9.35
6910.66ft: MUD VIS 54.00
6910.66ft: MUD PH 9.00

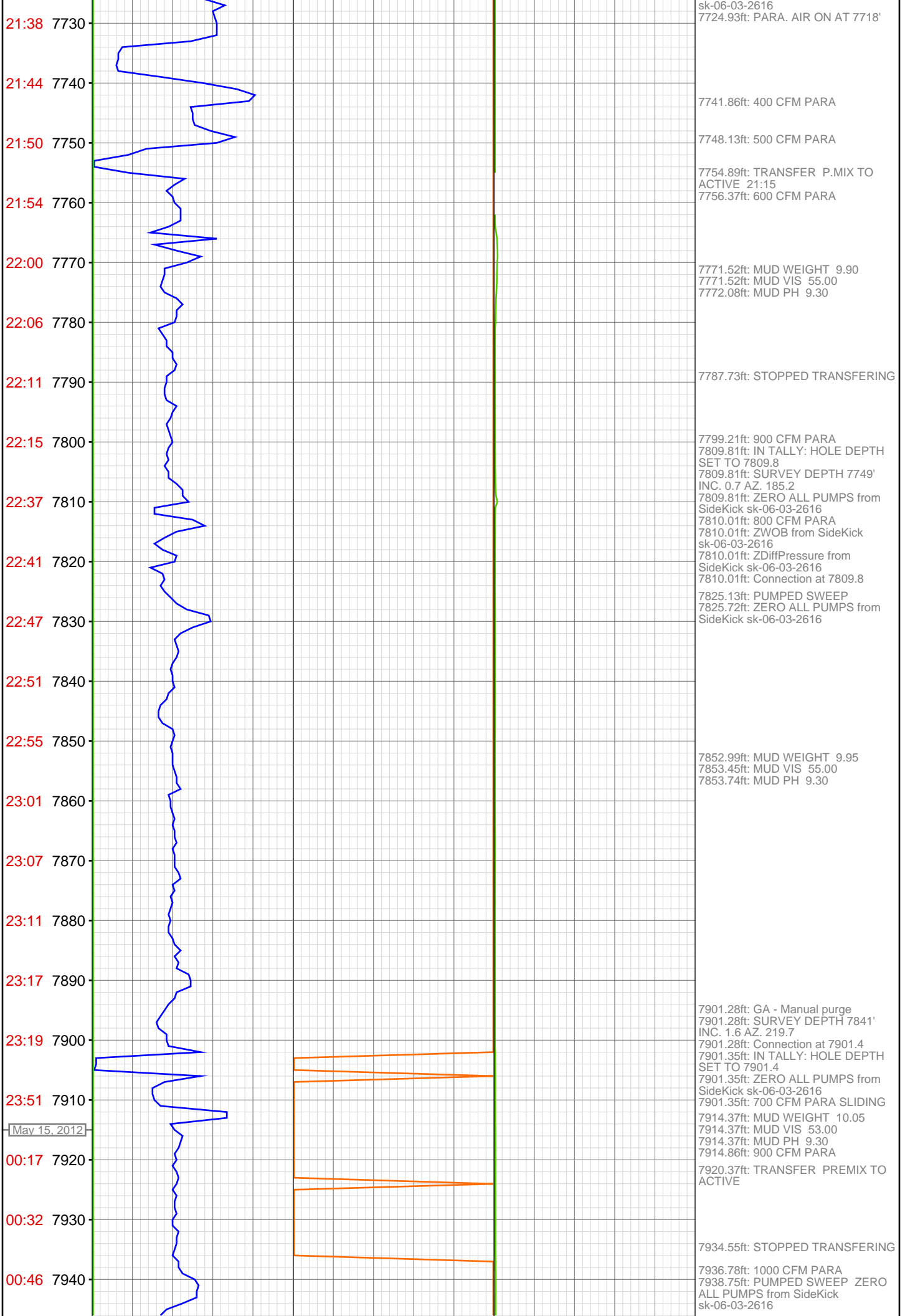
6941.96ft: SURVEY Depth 6834' Inc.
11.3 Az. 332.0

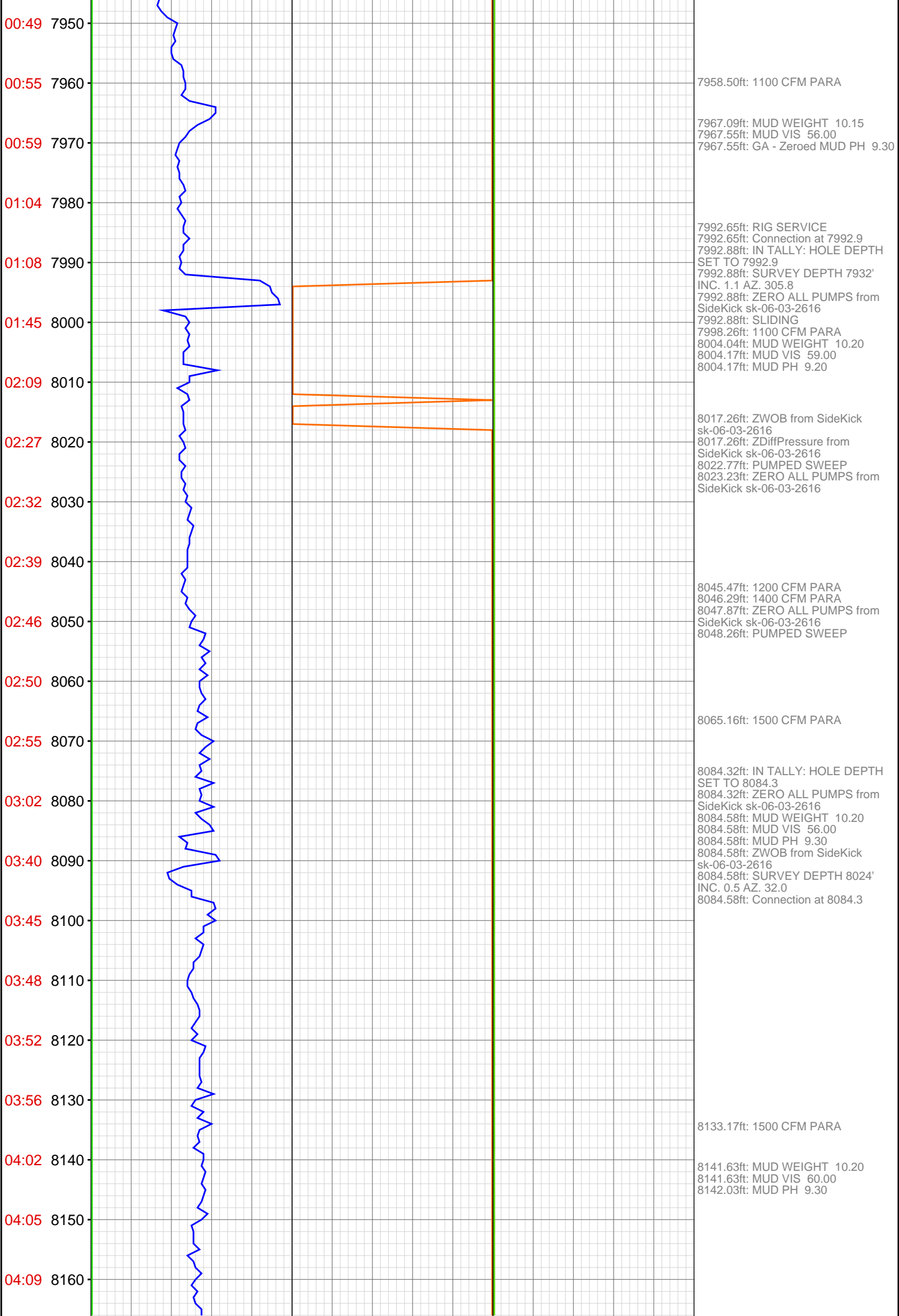
6985.96ft: IN TALLY: HOLE DEPTH
SET TO 6986.0
6985.96ft: Connection at 6985.9
6985.96ft: SURVEY Depth 6925' Inc.
11.0 Az. 331.1

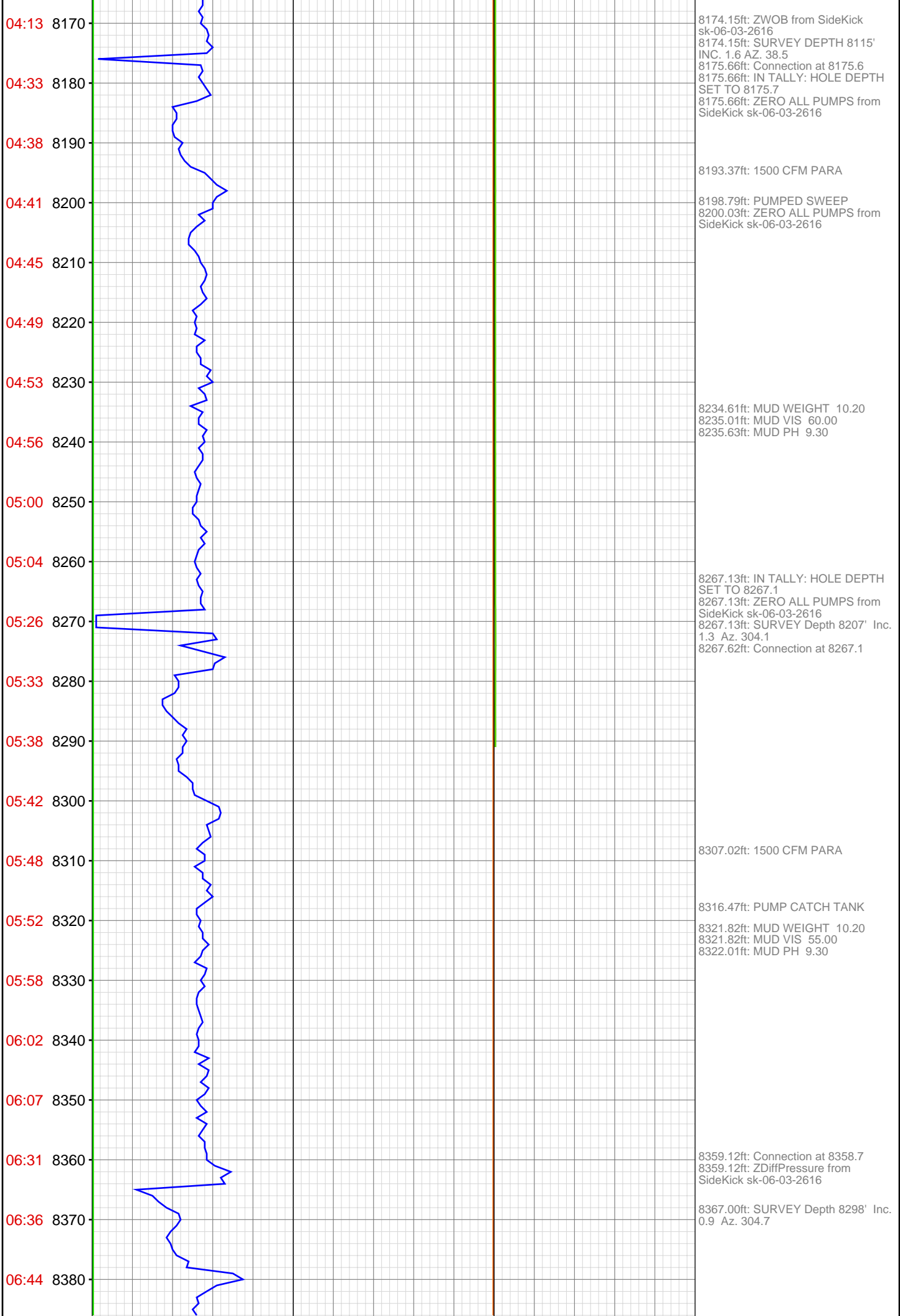


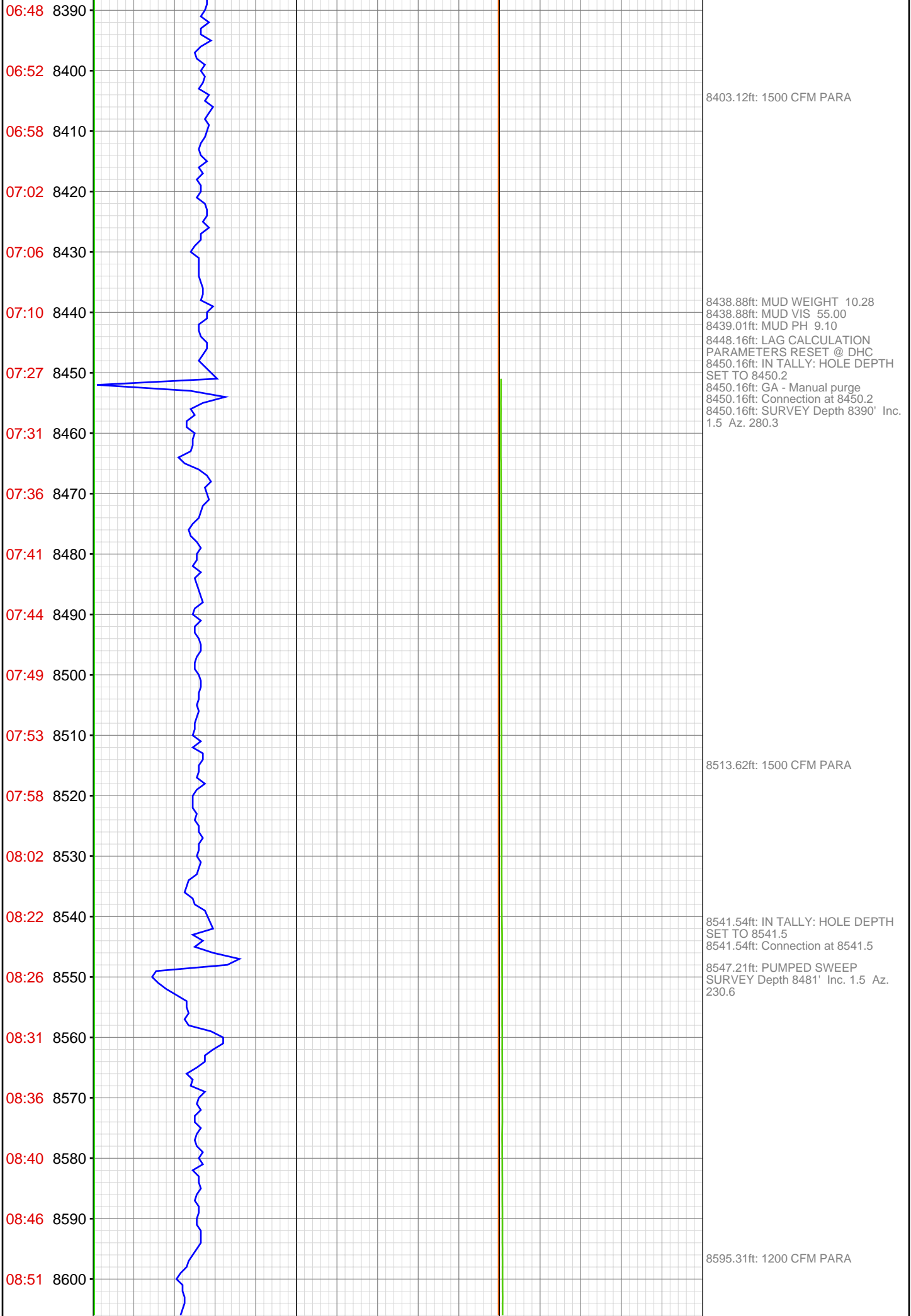


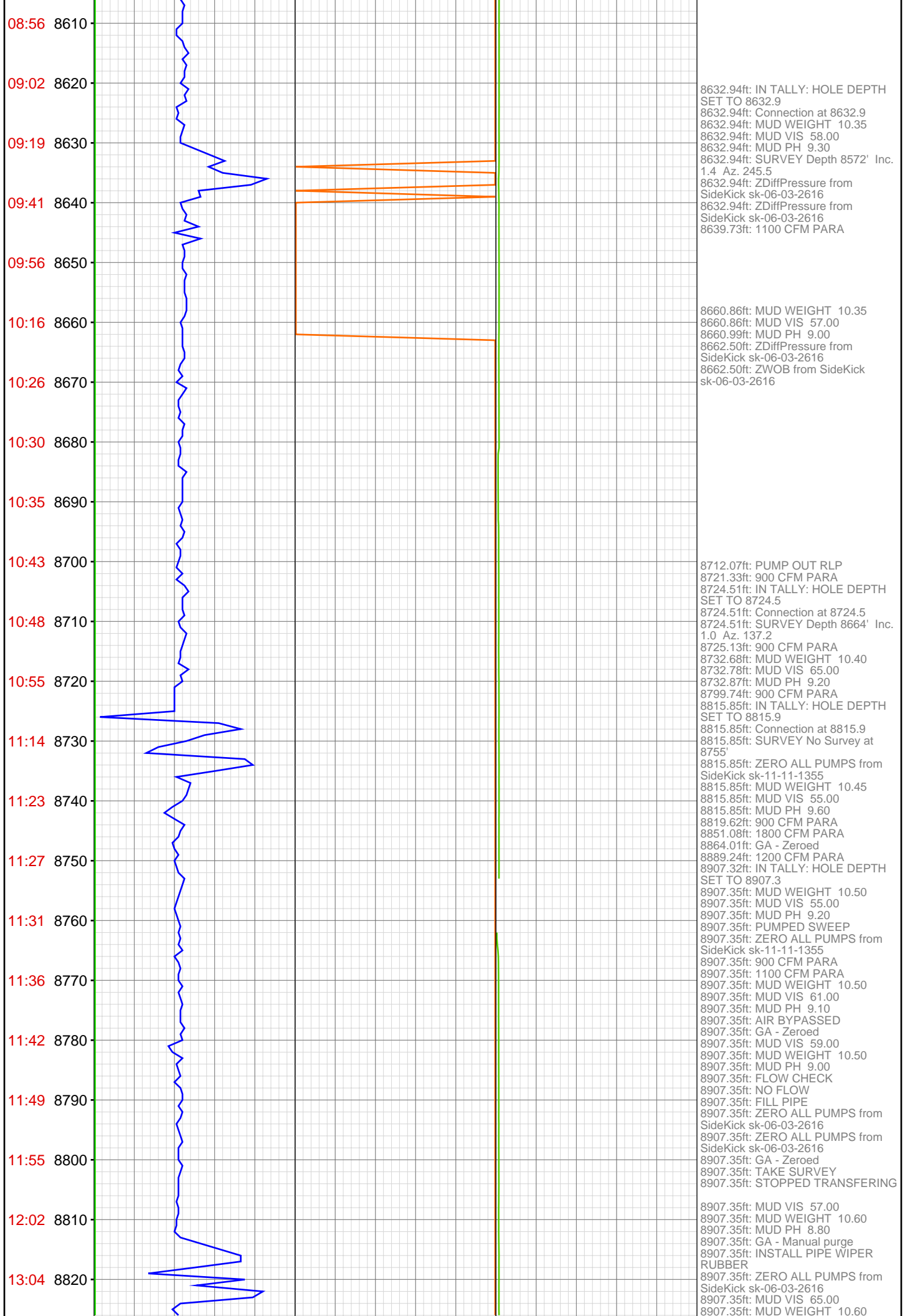


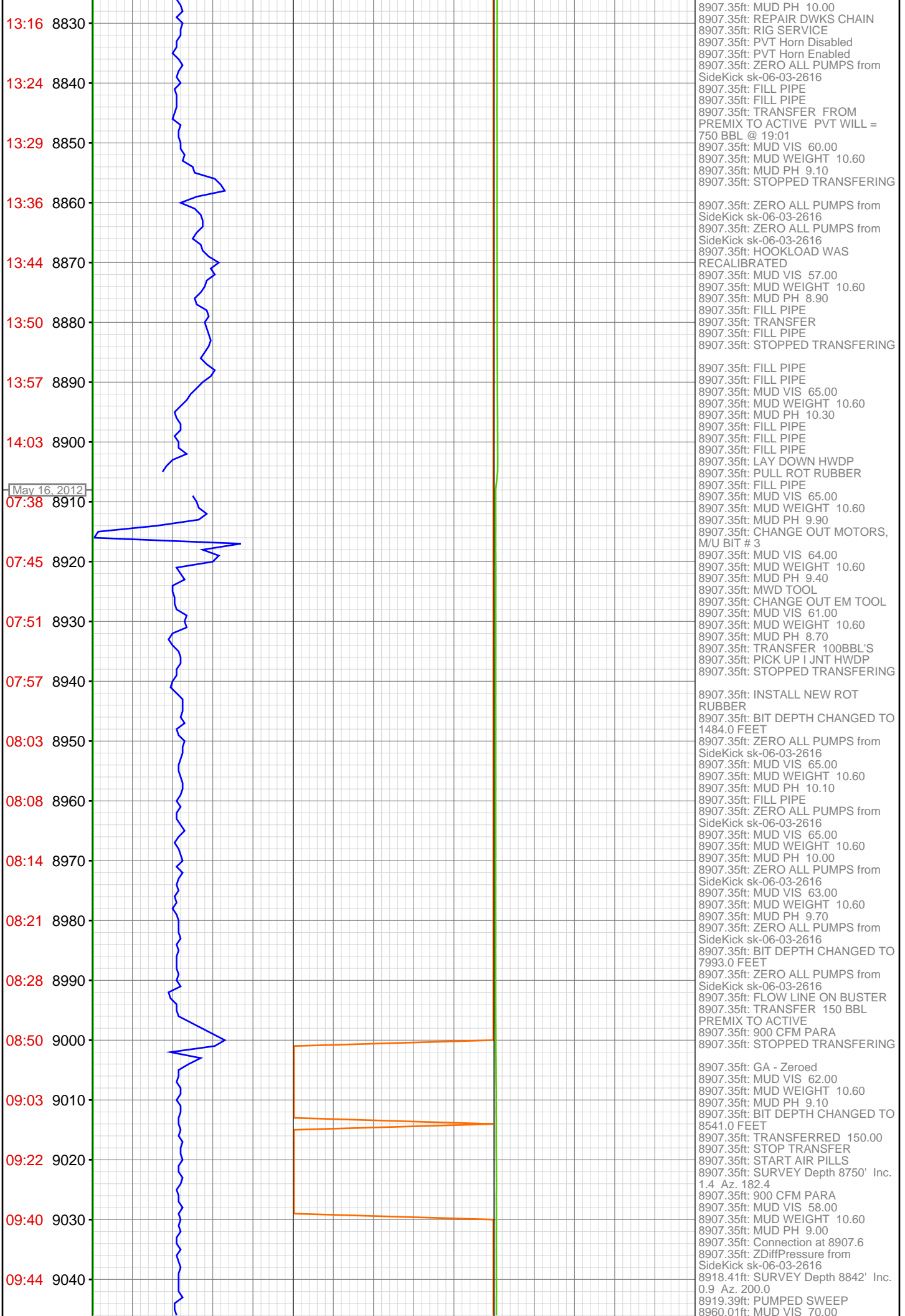


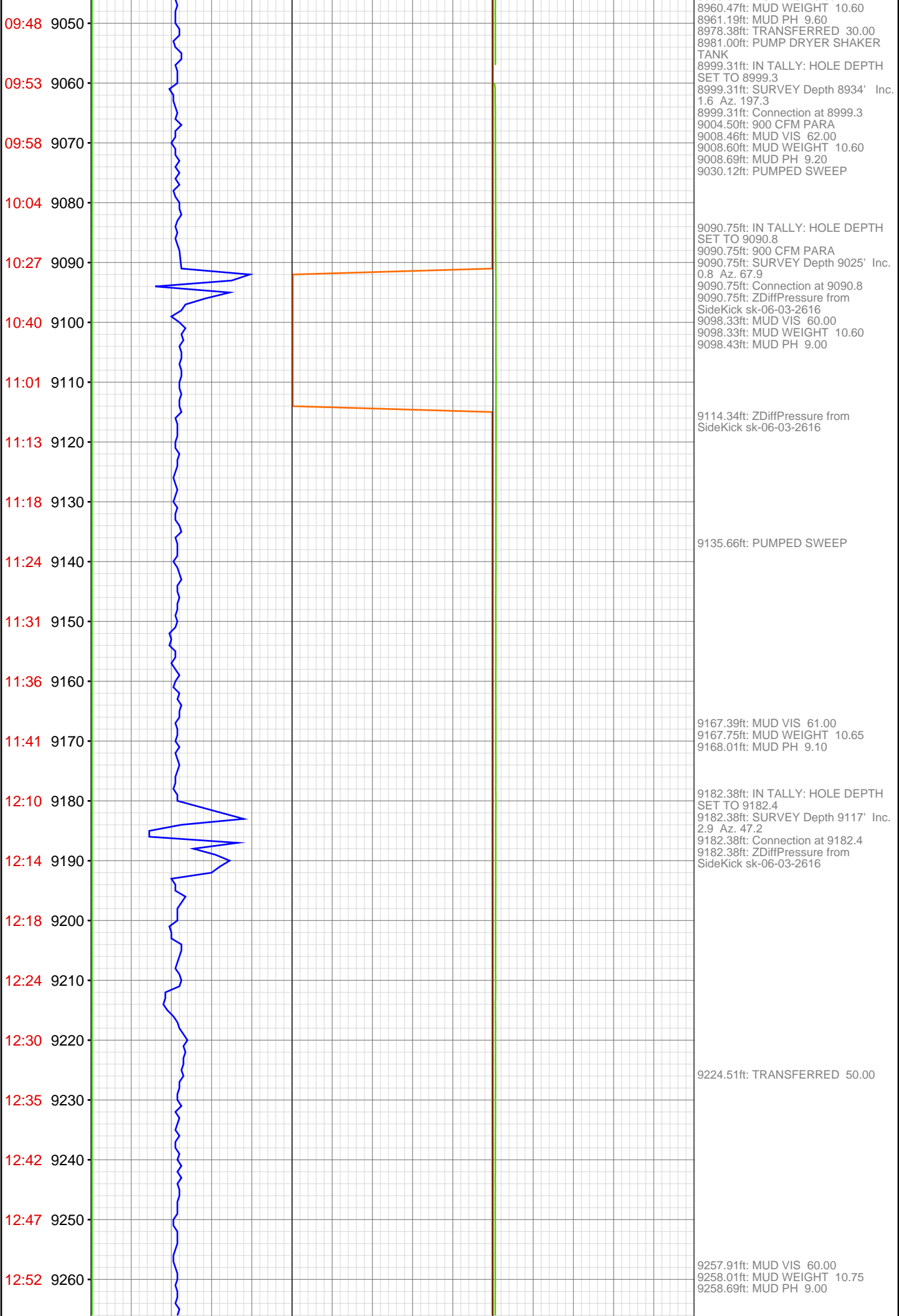


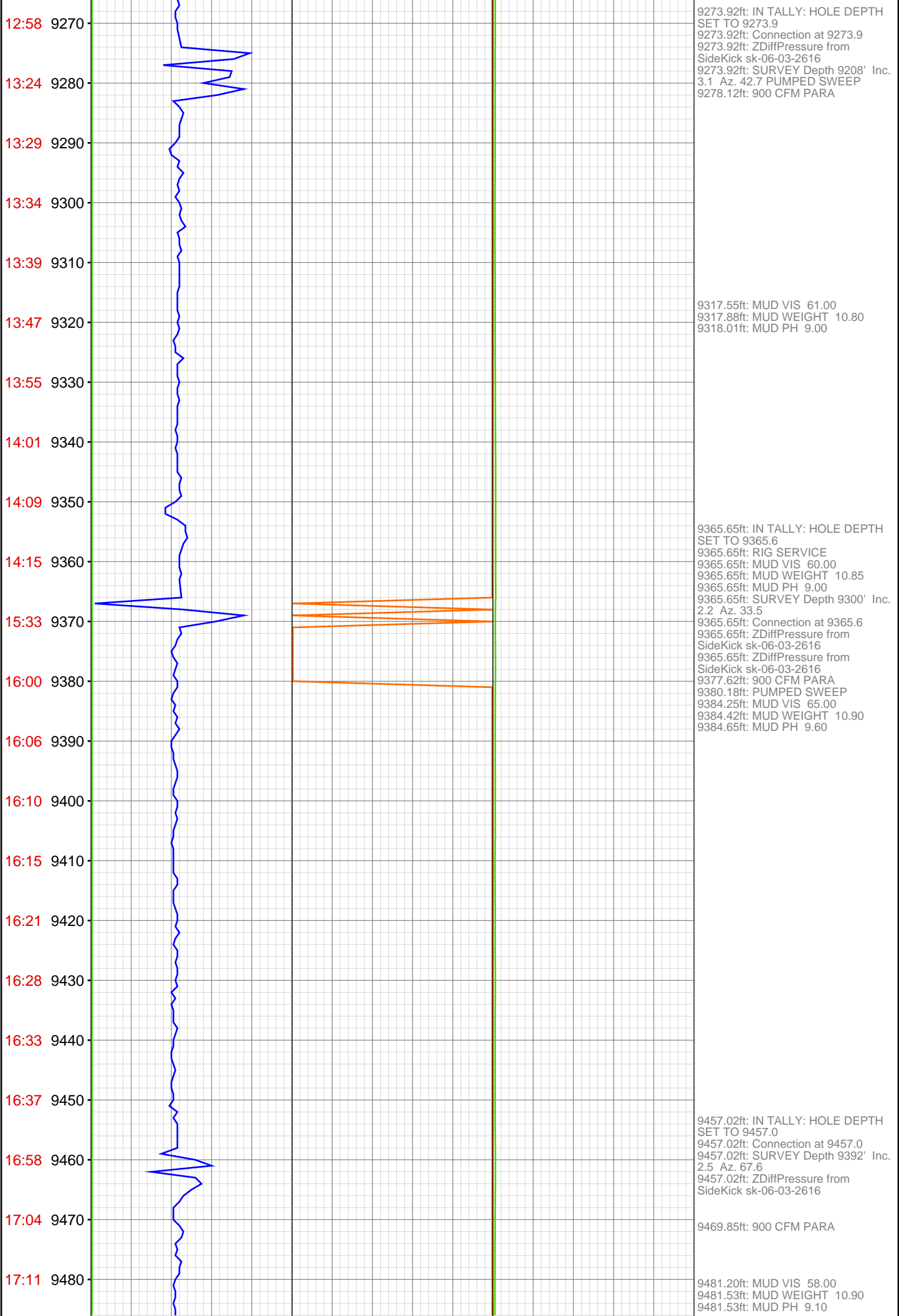












17:17 9490

17:22 9500

17:28 9510

17:35 9520

17:42 9530

17:47 9540

18:11 9550

18:20 9560

18:26 9570

18:32 9580

18:39 9590

18:44 9600

18:49 9610

18:55 9620

19:01 9630

19:25 9640

19:29 9650

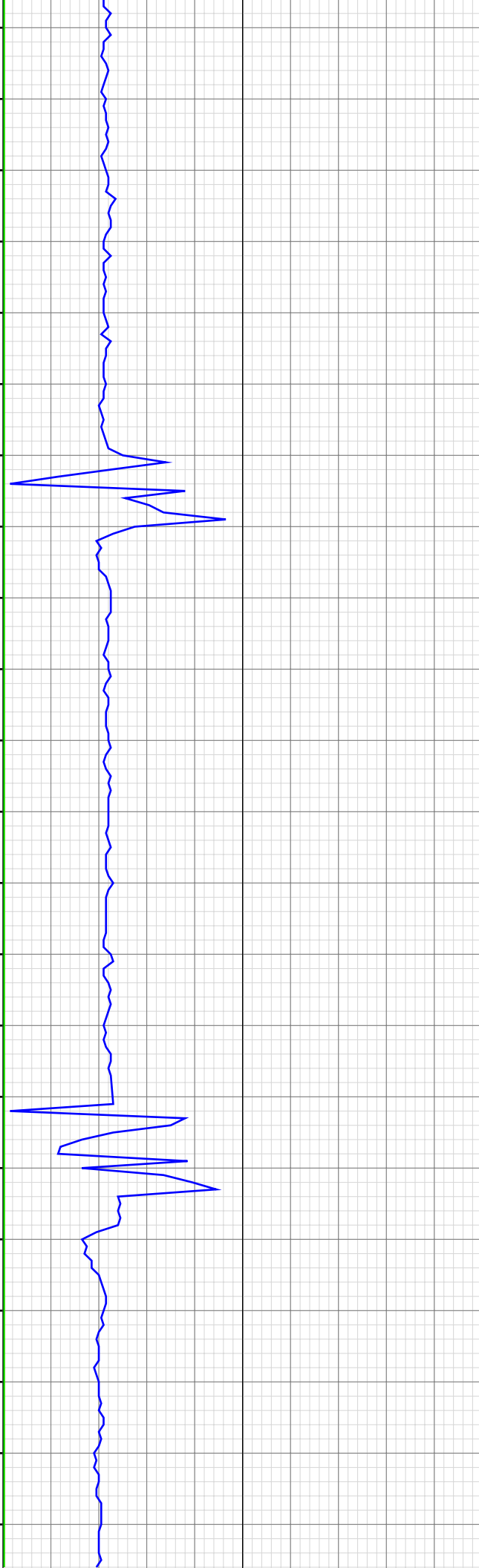
19:35 9660

19:41 9670

19:46 9680

19:51 9690

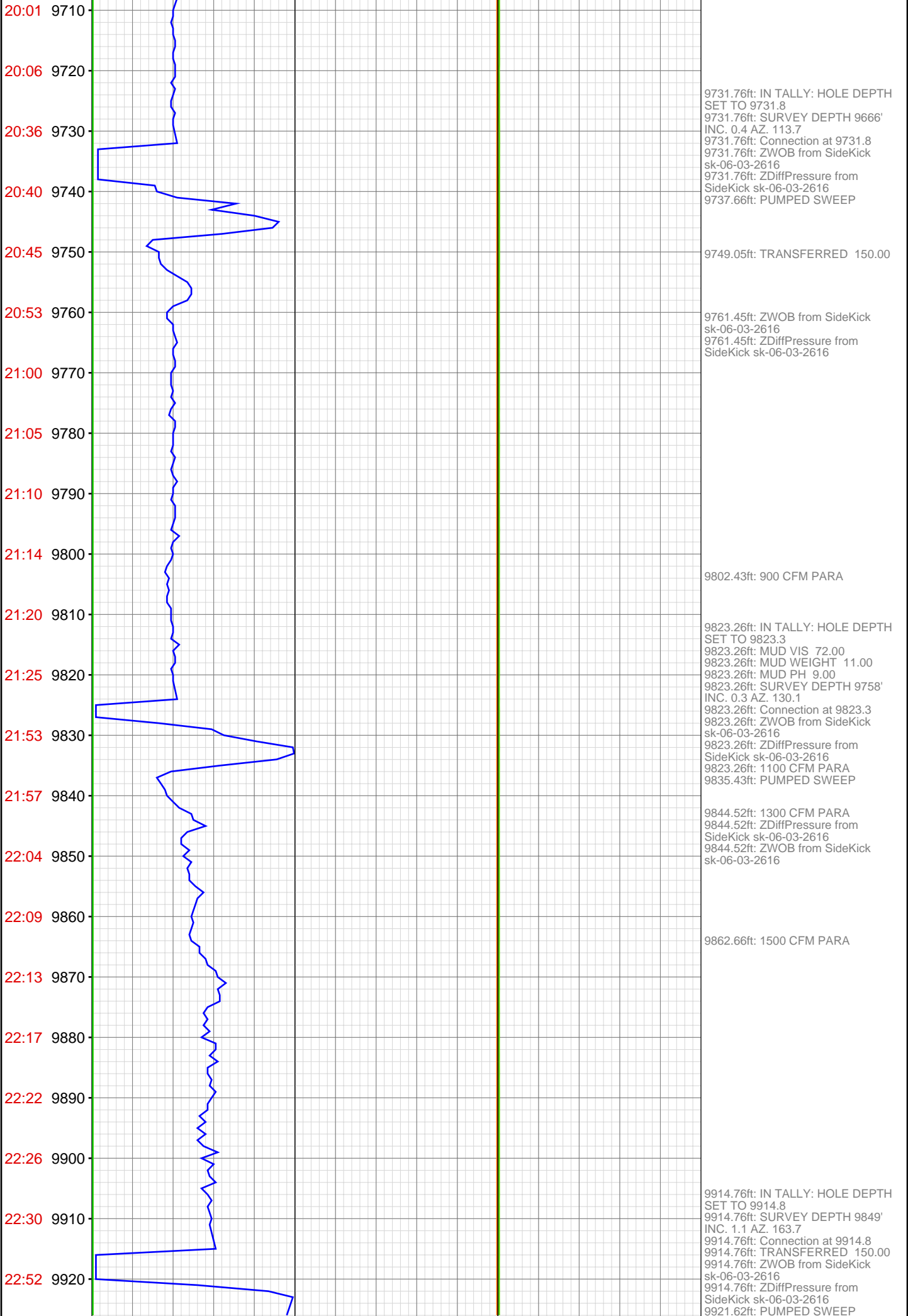
19:56 9700

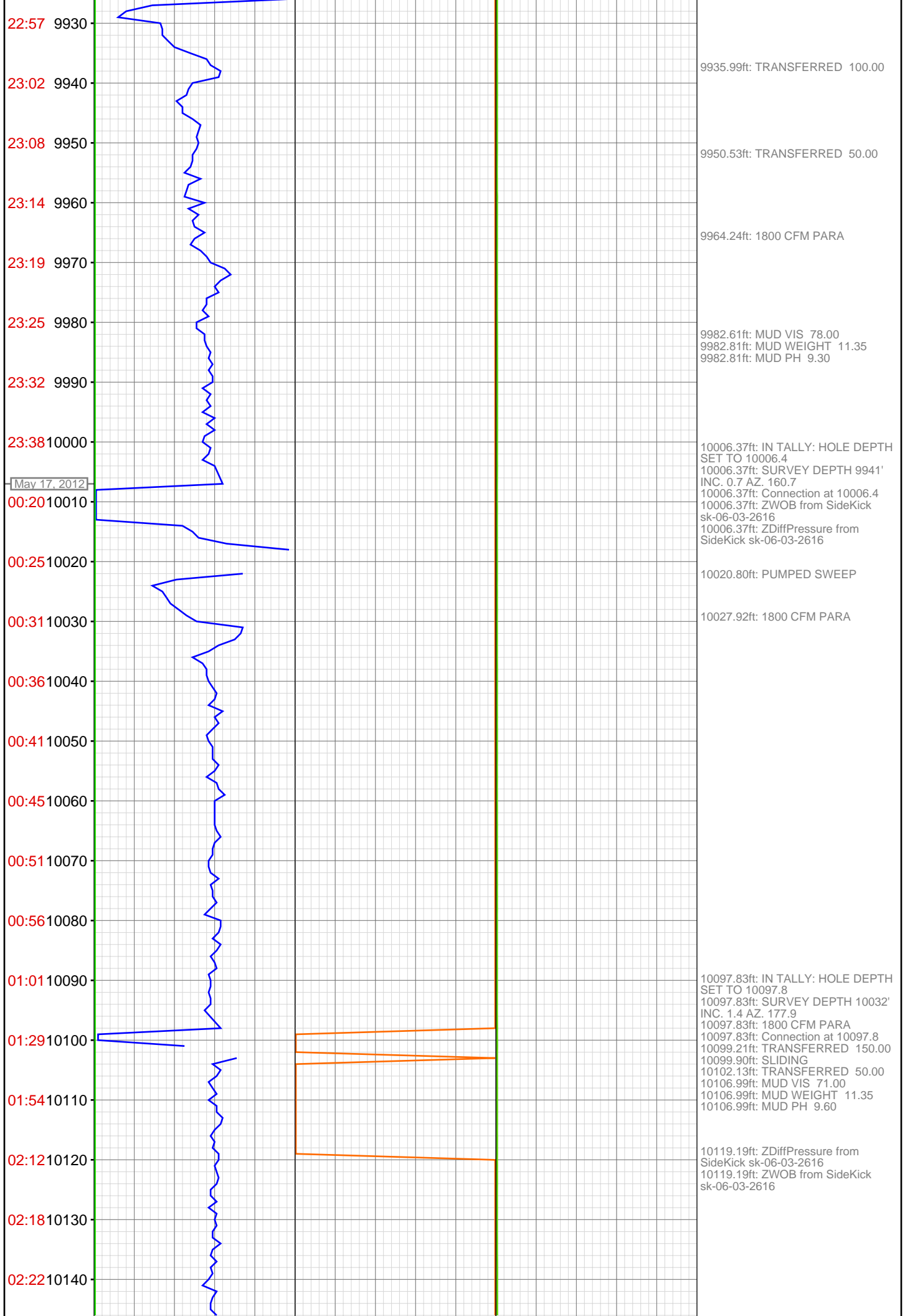


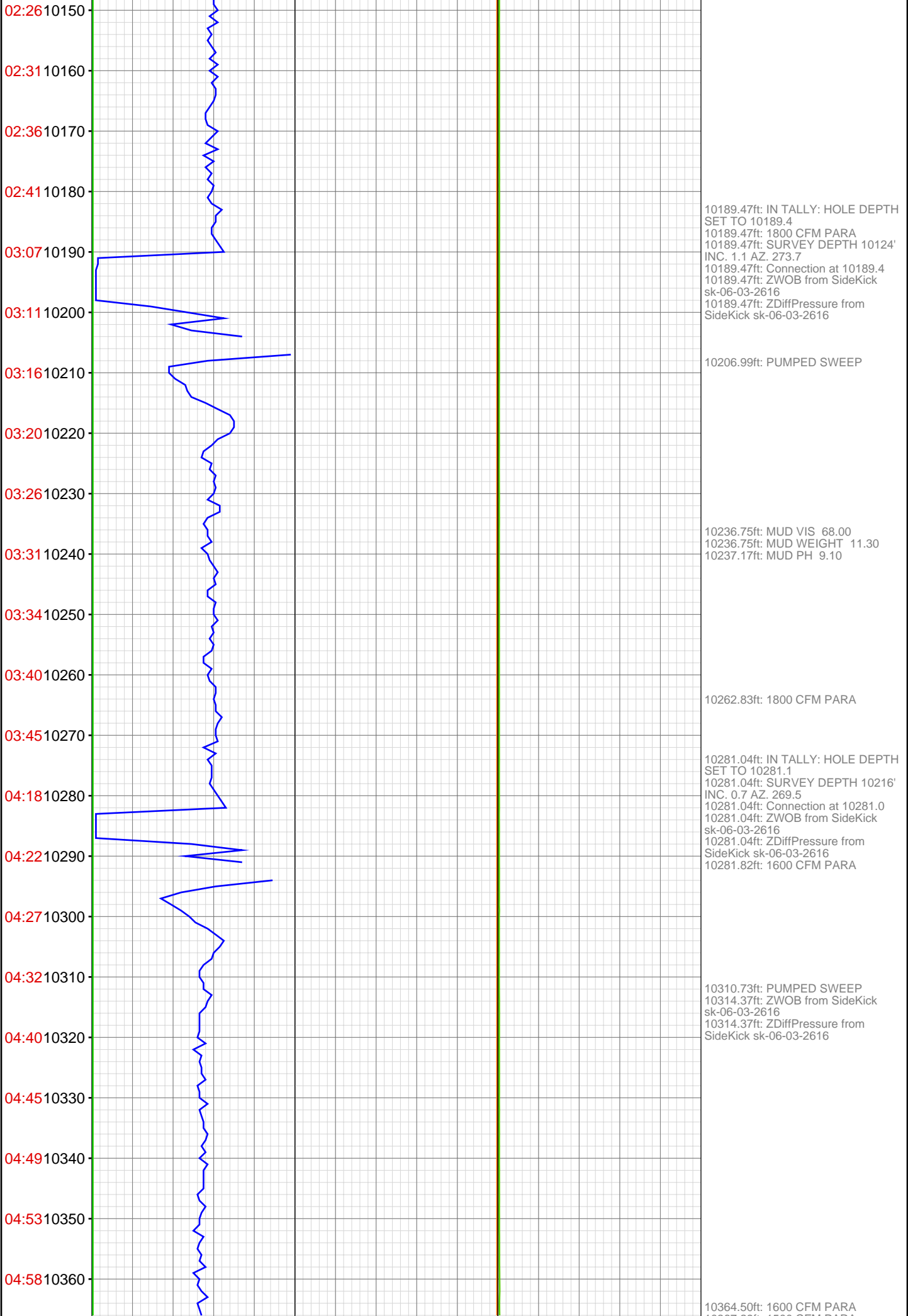
9548.62ft: IN TALLY: HOLE DEPTH
SET TO 9548.6
9548.62ft: Connection at 9548.6
9548.62ft: SURVEY DEPTH 9483'
INC. 1.7 AZ. 65.9
9548.62ft: ZDiffPressure from
SideKick sk-06-03-2616
9548.62ft: ZWOB from SideKick
sk-06-03-2616
9561.38ft: MUD VIS 52.00
9561.38ft: MUD WEIGHT 10.75
9561.75ft: MUD PH 9.20

9640.12ft: IN TALLY: HOLE DEPTH
SET TO 9640.1
9640.12ft: SURVEY DEPTH 9575'
INC. 1.5 AZ. 73.3
9640.12ft: Connection at 9640.1
9640.12ft: ZWOB from SideKick
sk-06-03-2616
9640.12ft: ZDiffPressure from
SideKick sk-06-03-2616
9648.82ft: MUD VIS 70.00
9649.02ft: MUD PH 9.10
9649.21ft: MUD WEIGHT 11.10

9684.02ft: 900 CFM PARA







05:02 10370
05:32 10380
05:37 10390
05:41 10400
05:46 10410
05:50 10420
05:58 10430
06:02 10440
06:06 10450
06:11 10460
06:43 10470
06:47 10480
06:51 10490
06:55 10500
07:00 10510
07:04 10520
07:10 10530
07:15 10540
07:21 10550
07:47 10560
07:54 10570
07:59 10580



10367.29ft: 1500 CFM PARA
10372.67ft: IN TALLY: HOLE DEPTH
SET TO 10372.7
10372.67ft: SURVEY Depth 10,307'
Inc. 0.8 Az. 198.8
10372.67ft: Connection at 10372.7
10372.67ft: MUD VIS 72.00
10372.67ft: MUD WEIGHT 11.30
10372.67ft: MUD PH 9.40
10372.67ft: ZWOB from SideKick
sk-06-03-2616
10372.67ft: ZDiffPressure from
SideKick sk-06-03-2616
10386.19ft: 1500 CFM PARA

10428.02ft: MUD VIS 70.00
10428.35ft: MUD WEIGHT 11.30
10428.61ft: MUD PH 9.30

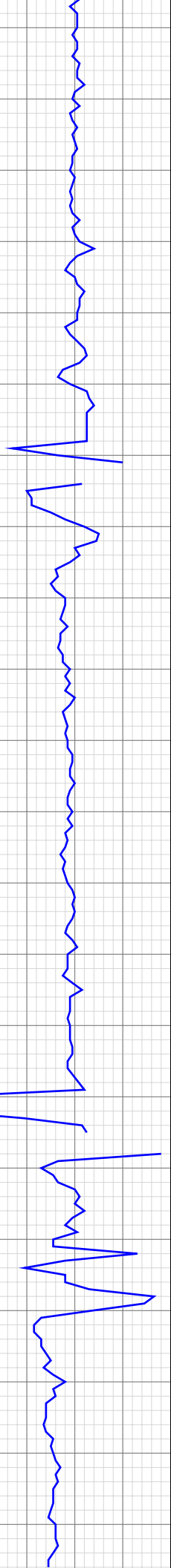
10464.21ft: IN TALLY: HOLE DEPTH
SET TO 10464.2
10464.21ft: Connection at 10464.2
10464.21ft: SURVEY Depth 10,399'
Inc. 2.3 Az. 230.5
10464.21ft: ZDiffPressure from
SideKick sk-06-03-2616

10523.23ft: 1600 CFM PARA
10529.00ft: MUD VIS 68.00
10529.56ft: MUD WEIGHT 11.30
10529.56ft: MUD PH 9.20
10531.56ft: TRANSFERRED 25.00

10555.48ft: IN TALLY: HOLE DEPTH
SET TO 10555.5
10555.48ft: Connection at 10555.5
SURVEY Depth 10,490' Inc. 2.1 Az.
225.1
10555.48ft: ZDiffPressure from
SideKick sk-06-03-2616
10555.48ft: PUMPED SWEEP

10586.84ft: MUD VIS 67.00

08:06 10590
08:13 10600
08:18 10610
08:23 10620
08:32 10630
08:41 10640
09:15 10650
09:21 10660
09:26 10670
09:33 10680
09:38 10690
09:44 10700
09:49 10710
09:53 10720
09:57 10730
10:25 10740
10:31 10750
10:36 10760
11:35 10770
11:41 10780
11:46 10790
11:50 10800



10586.81ft: MUD VIS 67.00
10586.91ft: MUD WEIGHT 11.30
10587.07ft: MUD PH 9.10

10647.11ft: IN TALLY: HOLE DEPTH
SET TO 10647.1
10647.11ft: Connection at 10647.1
10647.11ft: SURVEY Depth 10,582'
Inc. 2.9 Az. 237.1
10647.11ft: ZDiffPressure from
SideKick sk-06-03-2616
10653.64ft: 1600 CFM PARA
10656.00ft: MUD VIS 65.00
10656.46ft: MUD WEIGHT 11.30
10656.79ft: MUD PH 9.00

10738.78ft: IN TALLY: HOLE DEPTH
SET TO 10738.8
10738.78ft: SURVEY Depth 10,673'
Inc. 3.2 Az. 225.4
10738.78ft: Connection at 10738.8
10738.78ft: ZDiffPressure from
SideKick sk-06-03-2616
10746.00ft: MUD WEIGHT 11.30
10746.10ft: MUD VIS 72.00
10746.65ft: MUD PH 9.00

10761.55ft: AIR BYPASSED
10761.55ft: WORK ON AIR BUSTER
10761.55ft: START AIR PILLS
10761.55ft: ZDiffPressure from
SideKick sk-06-03-2616
10768.87ft: MUD VIS 65.00
10769.00ft: MUD PH 9.00
10769.16ft: MUD WEIGHT 11.30
10769.42ft: 1400 CFM PARA

10800.98ft: 1500 CFM PARA

