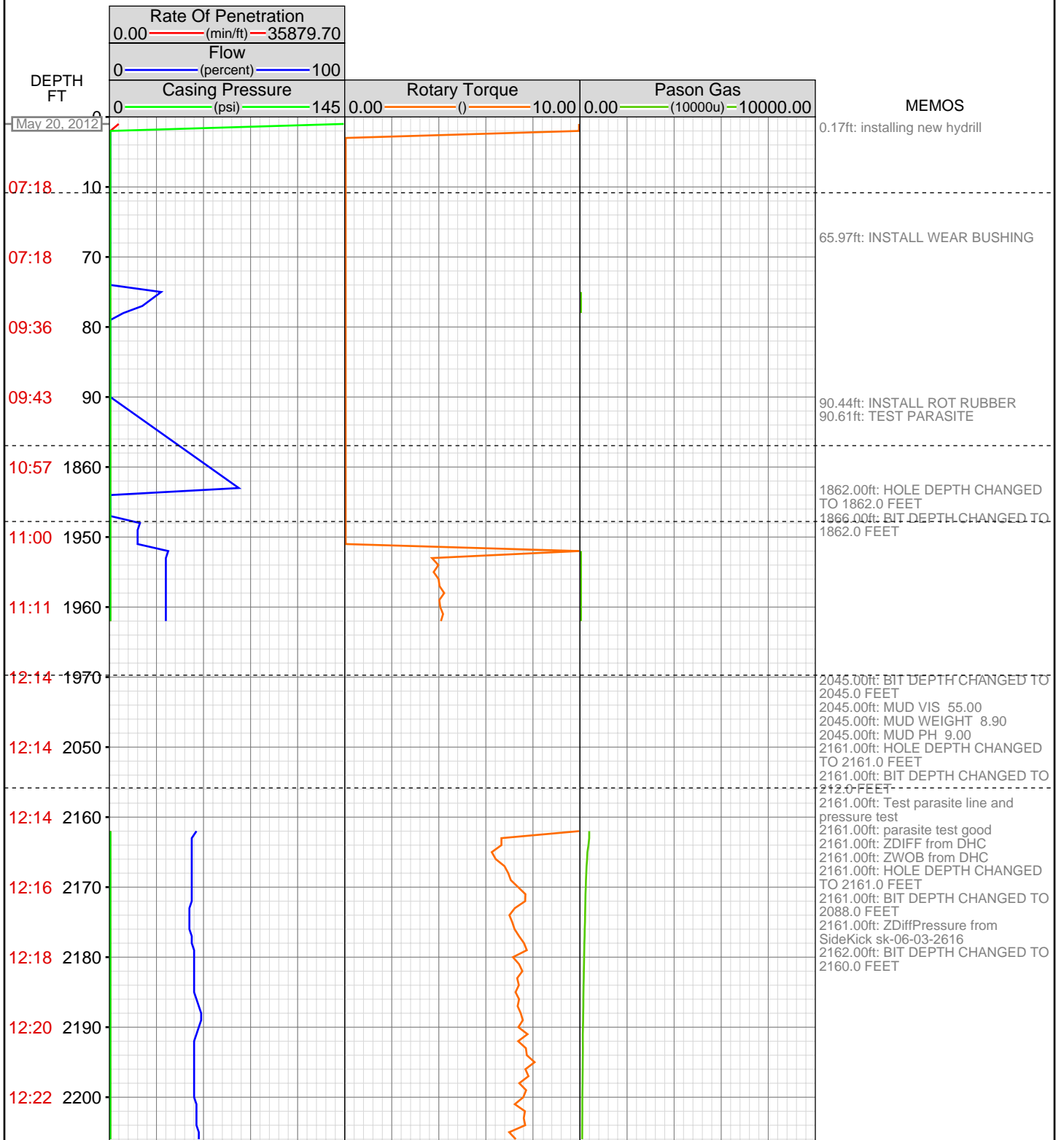


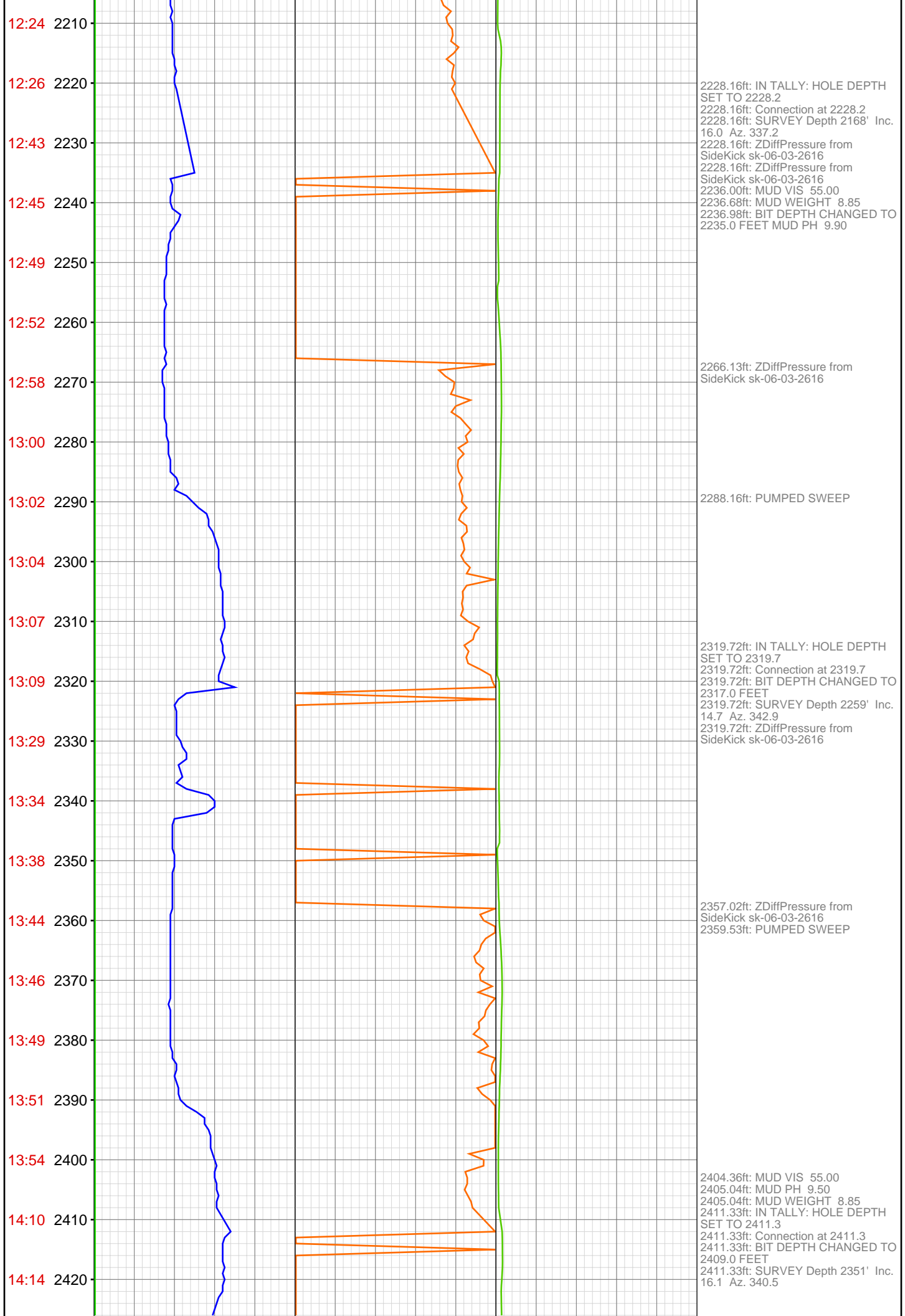
DataHub EDR Log

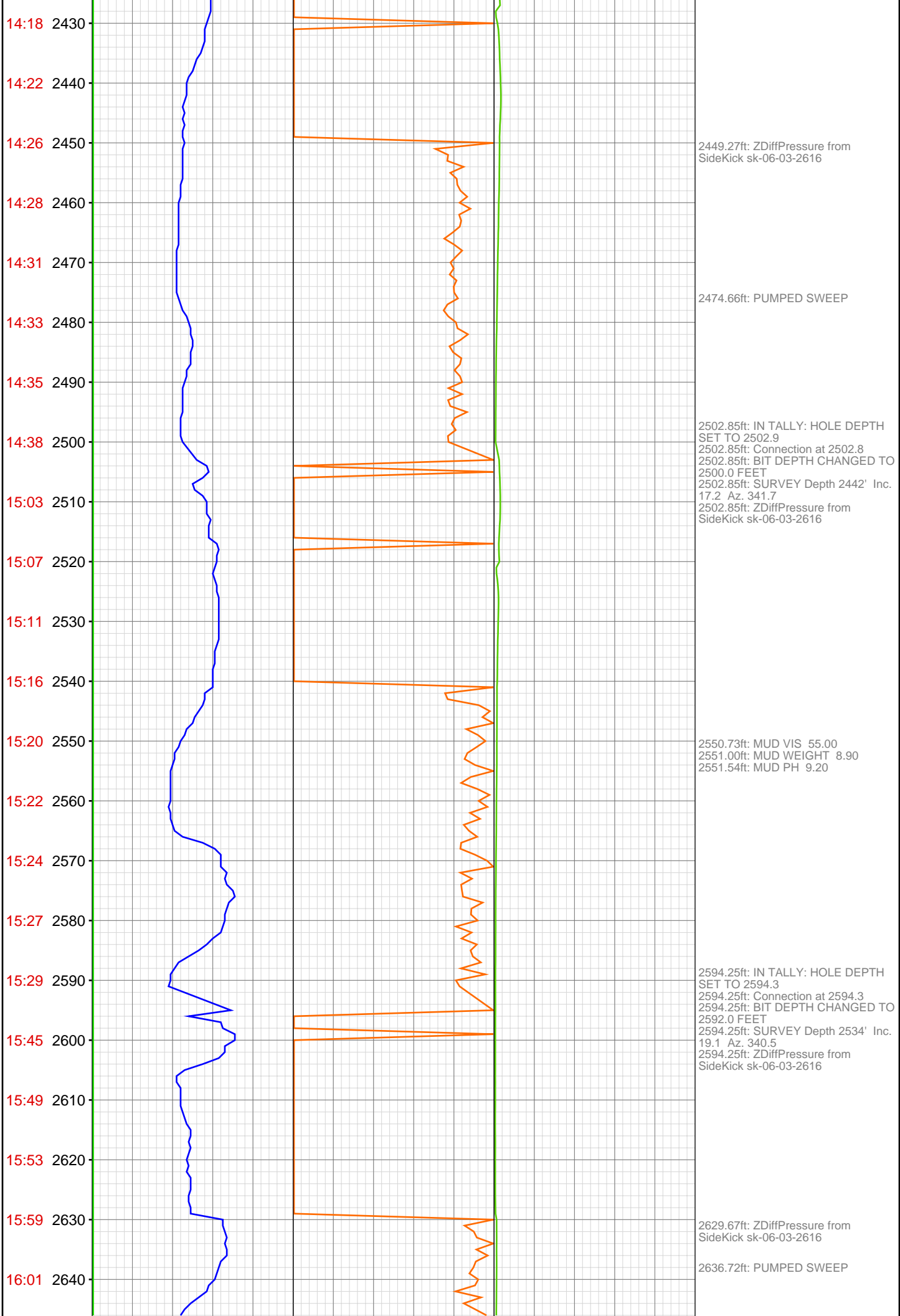
Thu May 31, 2012 09:05:10
Well Dossier 1337425463
Marilyn Tucker

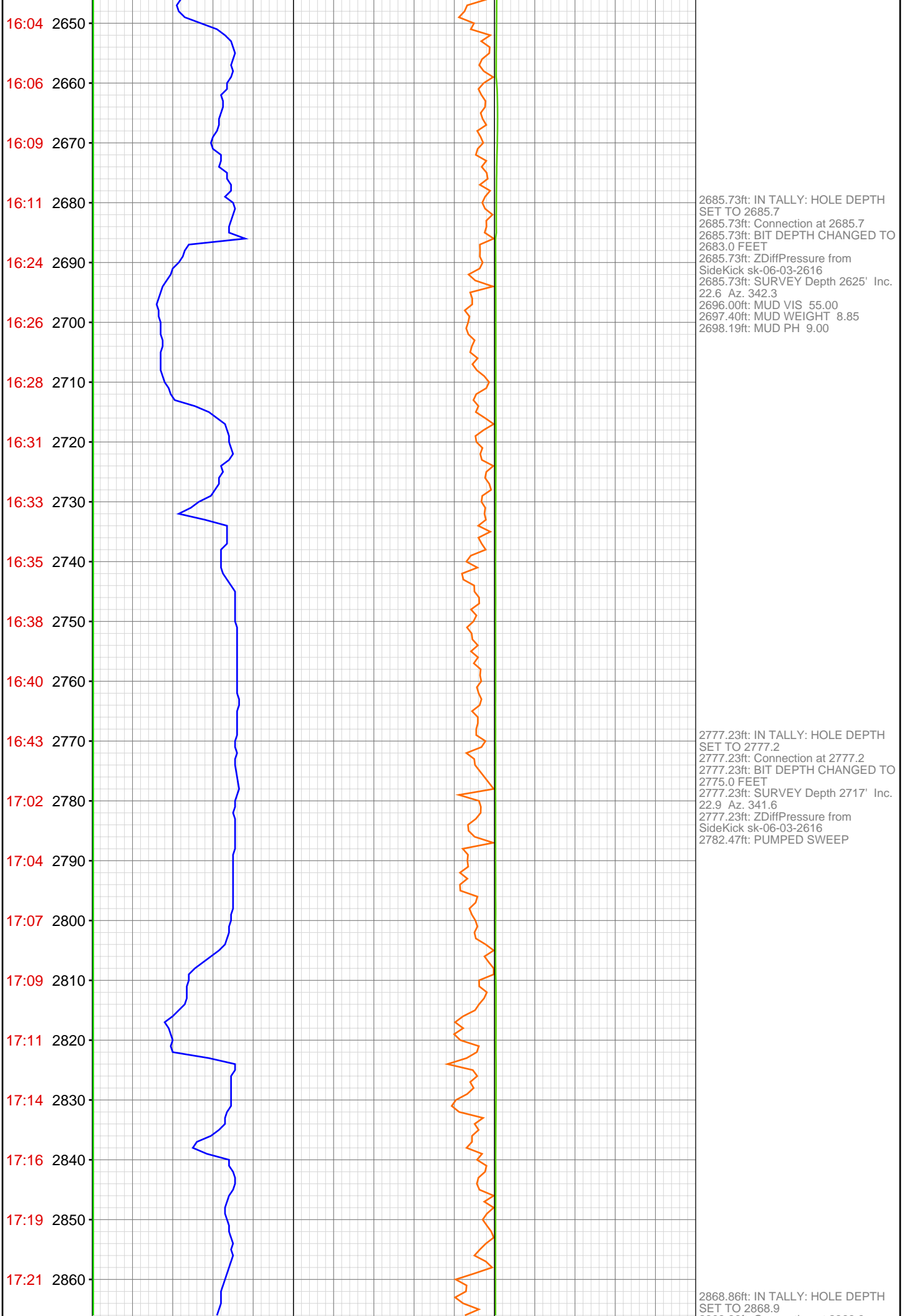
OPERATOR: EnCana Oil & Gas (USA), Inc.
WELL: DOUBLE WILLOW 8608F-28 P28 496
FIELD:
LOCATION: Sec. 36 T4S R96W
COUNTRY: USA
RIG: Pat-UTI 308

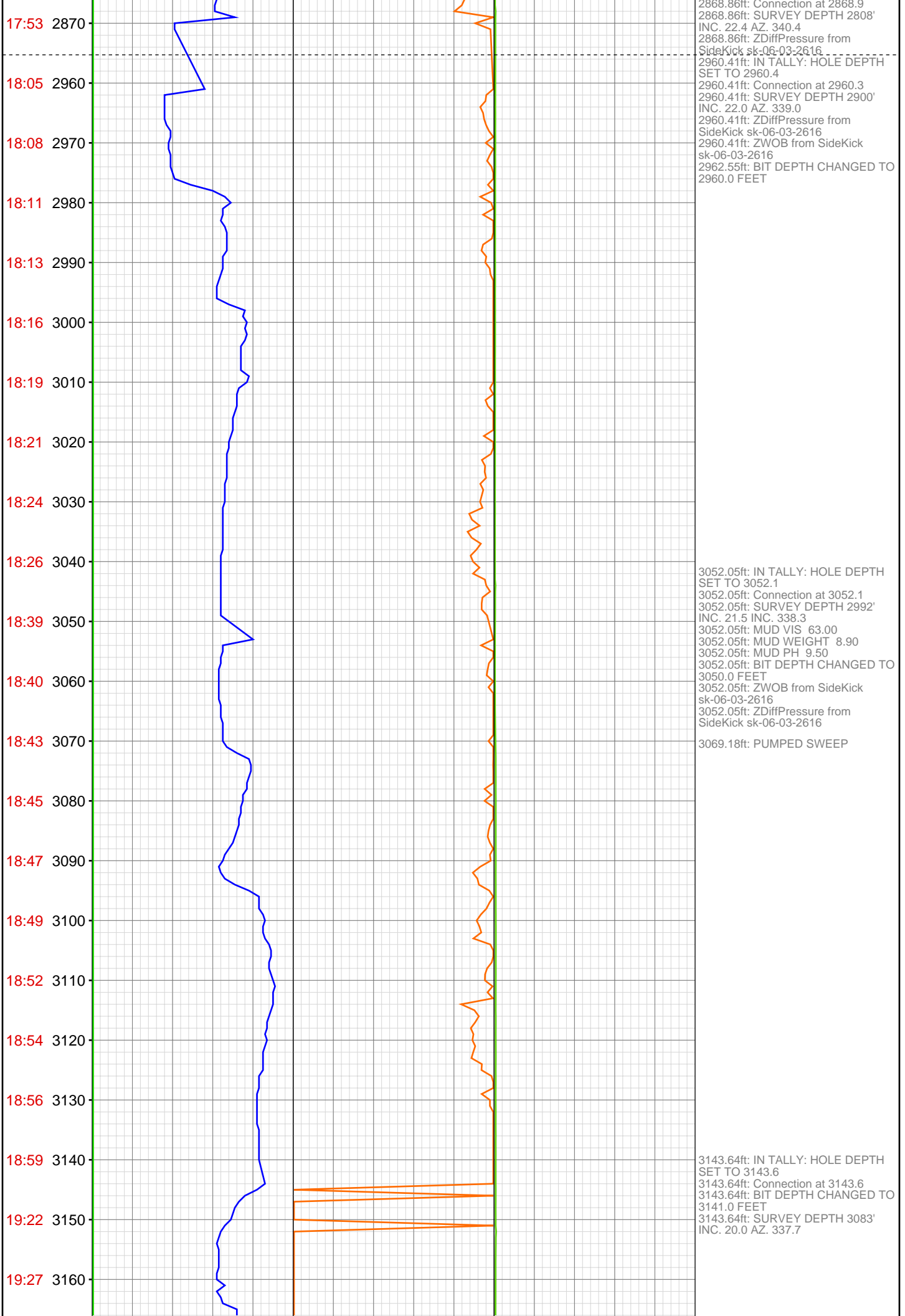
CONTRACTOR: Patterson-UTI Drilling Company
UNIQUE WELL ID: 05-045-20804-00
SPUD DATE: May 20, 2012 12:30
RELEASE DATE: May 27, 2012 10:00

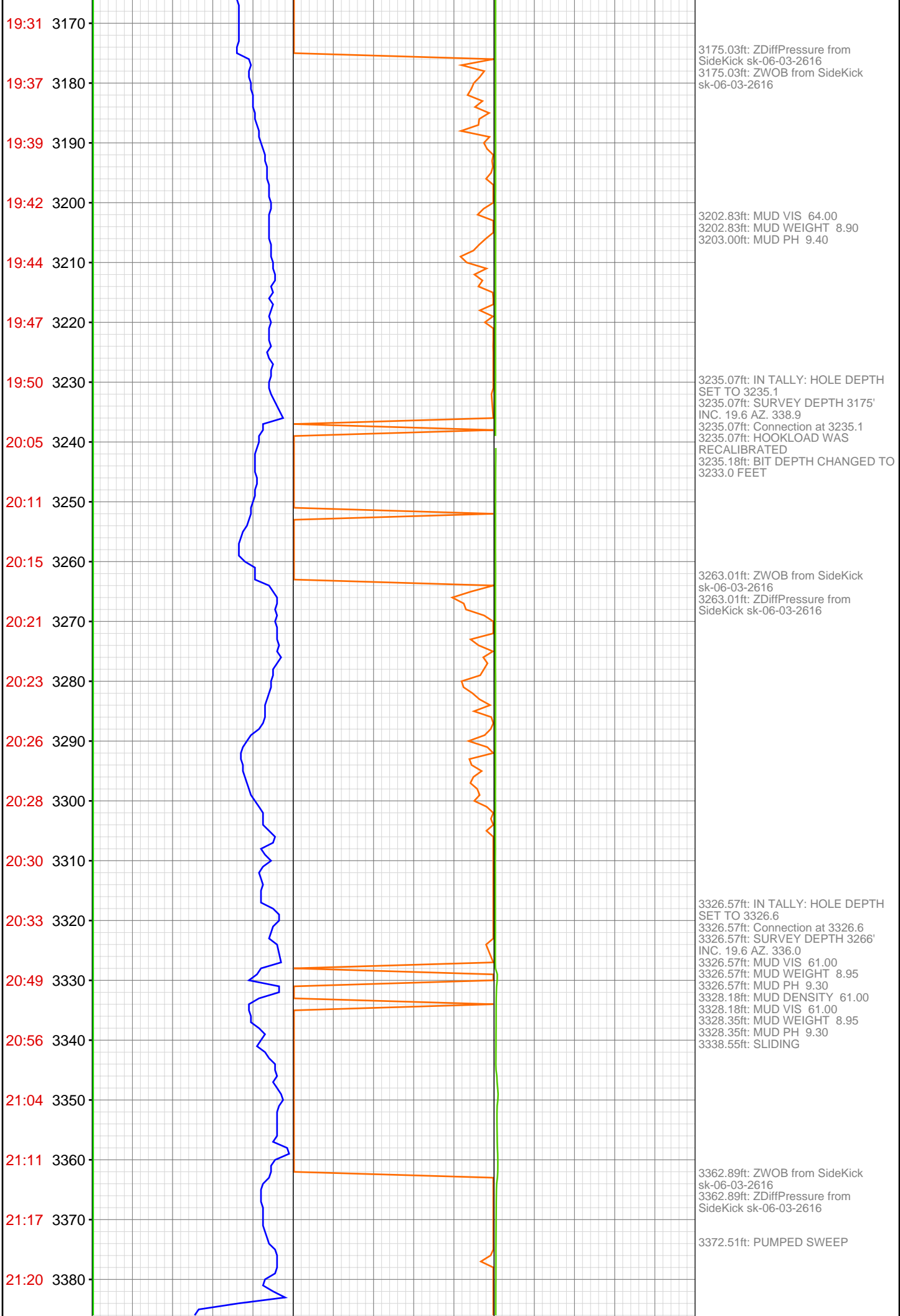


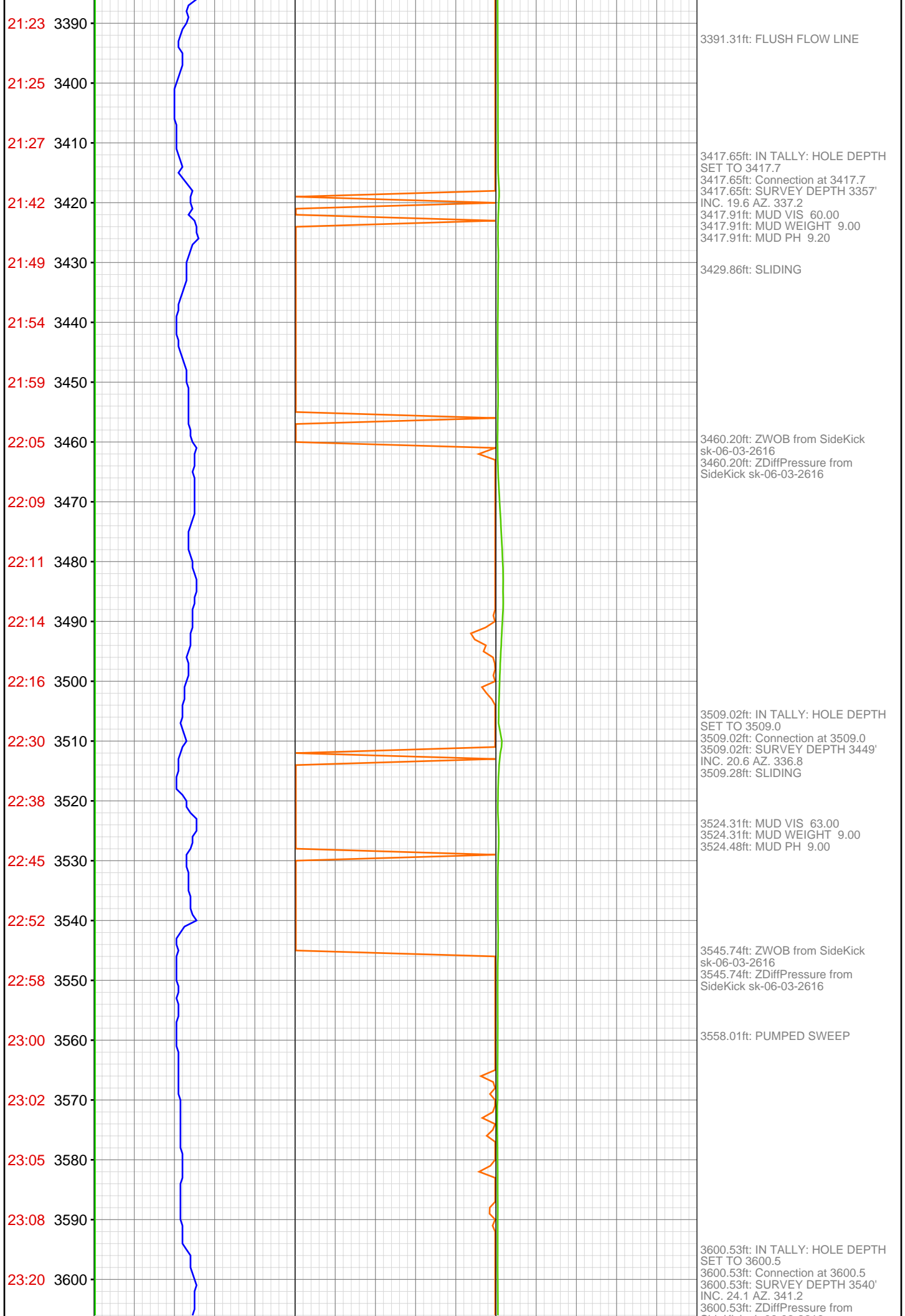


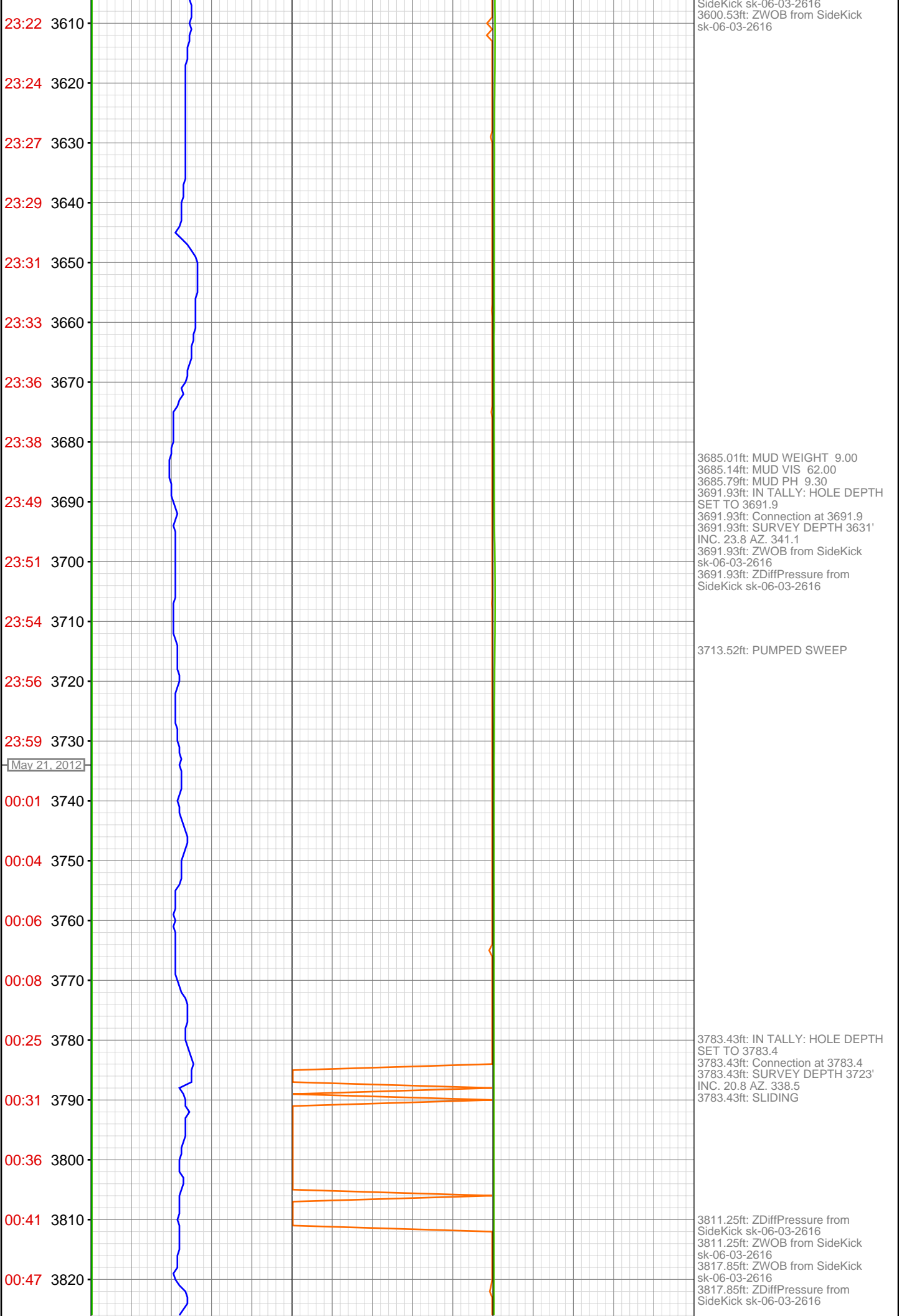












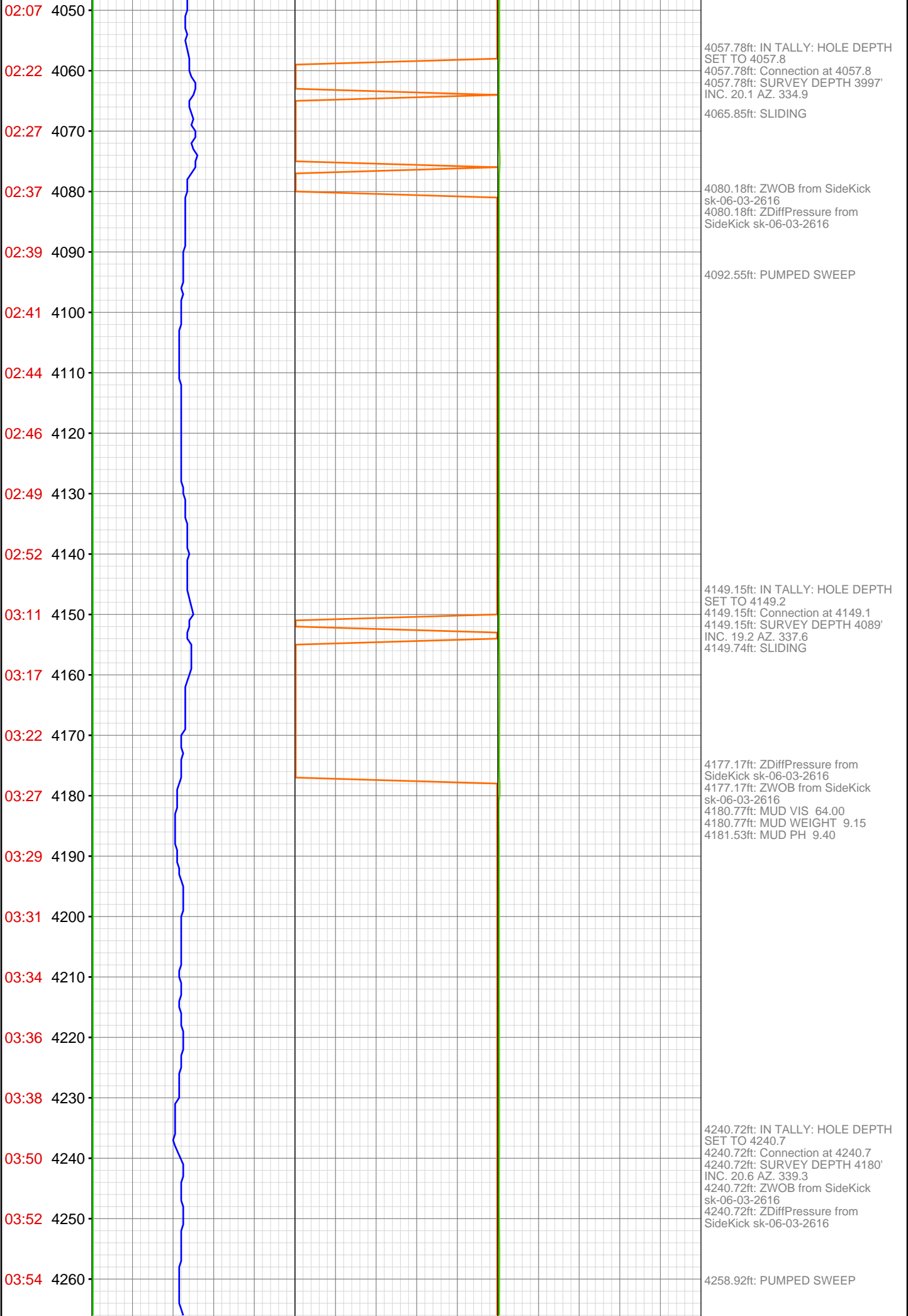
00:49 3830
00:51 3840
00:54 3850
00:56 3860
00:58 3870
01:18 3880
01:20 3890
01:22 3900
01:24 3910
01:27 3920
01:29 3930
01:32 3940
01:34 3950
01:36 3960
01:48 3970
01:50 3980
01:53 3990
01:55 4000
01:58 4010
02:00 4020
02:02 4030
02:05 4040

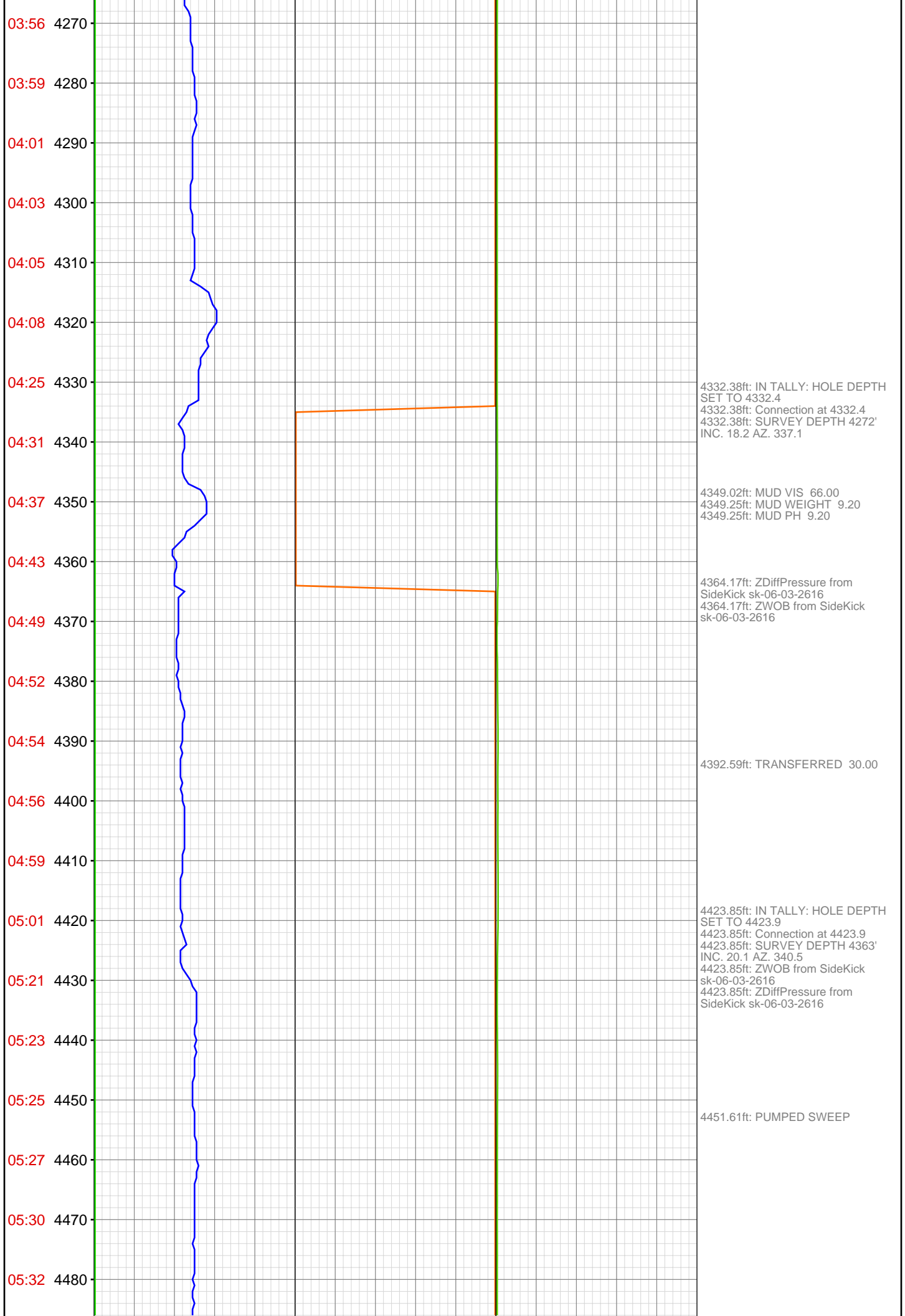


3874.93ft: IN TALLY: HOLE DEPTH
SET TO 3874.9
3874.93ft: Connection at 3874.9
3874.93ft: SURVEY DEPTH 3814'
INC. 23.8 AZ. 338.0
3874.93ft: MUD VIS 68.00
3874.93ft: MUD WEIGHT 9.10
3874.93ft: MUD PH 9.60
3874.93ft: ZDiffPressure from
SideKick sk-06-03-2616
3874.93ft: ZWOB from SideKick
sk-06-03-2616

3893.83ft: PUMPED SWEEP

3966.21ft: IN TALLY: HOLE DEPTH
SET TO 3966.2
3966.21ft: Connection at 3966.2
3966.21ft: SURVEY DEPTH 3906'
INC. 22.2 AZ. 336.4
3966.21ft: ZWOB from SideKick
sk-06-03-2616
3966.21ft: ZDiffPressure from
SideKick sk-06-03-2616





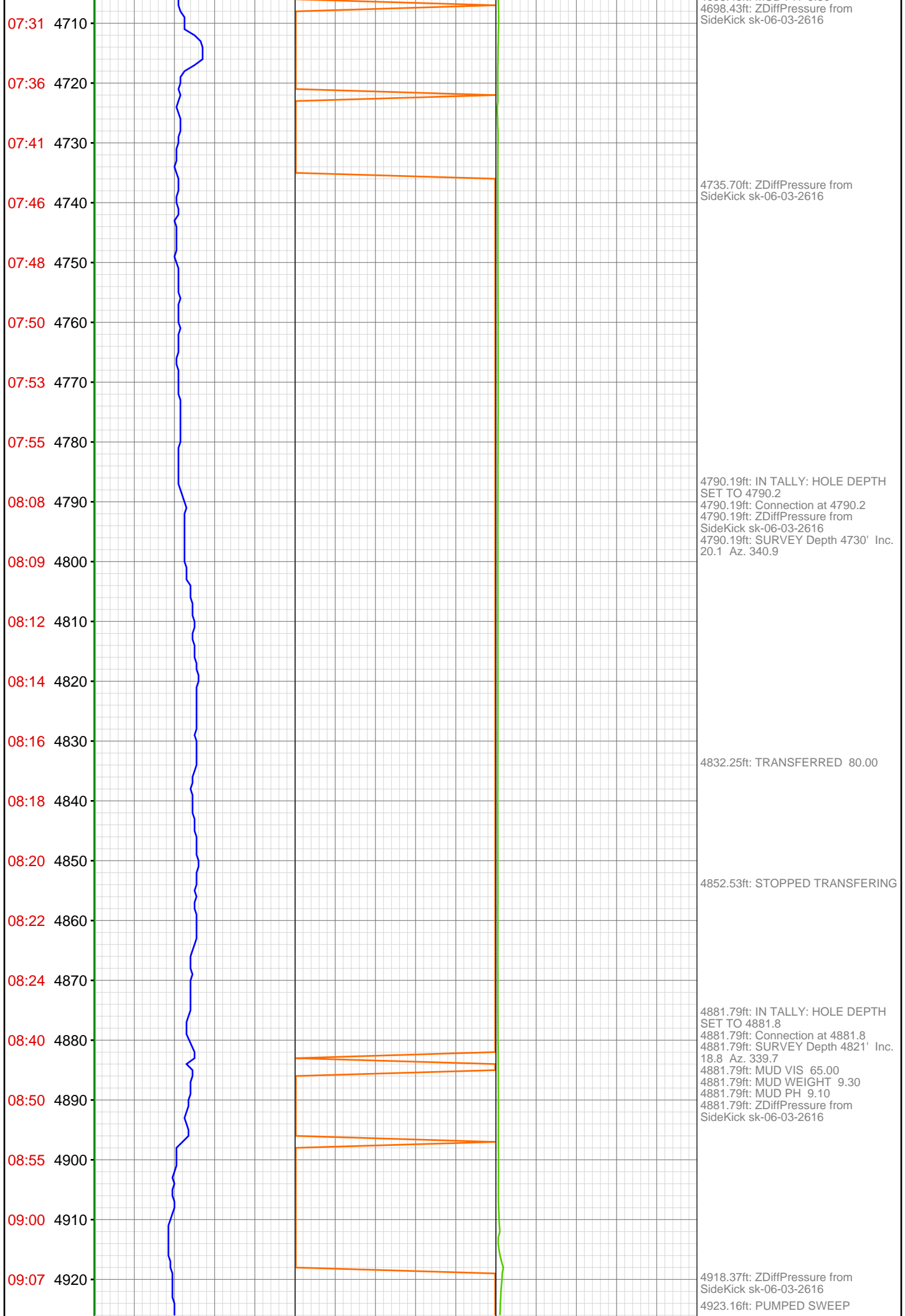
05:34 4490
05:36 4500
05:39 4510
05:57 4520
06:04 4530
06:10 4540
06:15 4550
06:19 4560
06:22 4570
06:26 4580
06:28 4590
06:30 4600
06:42 4610
06:45 4620
06:47 4630
06:49 4640
06:51 4650
06:54 4660
06:56 4670
06:58 4680
07:01 4690
07:23 4700

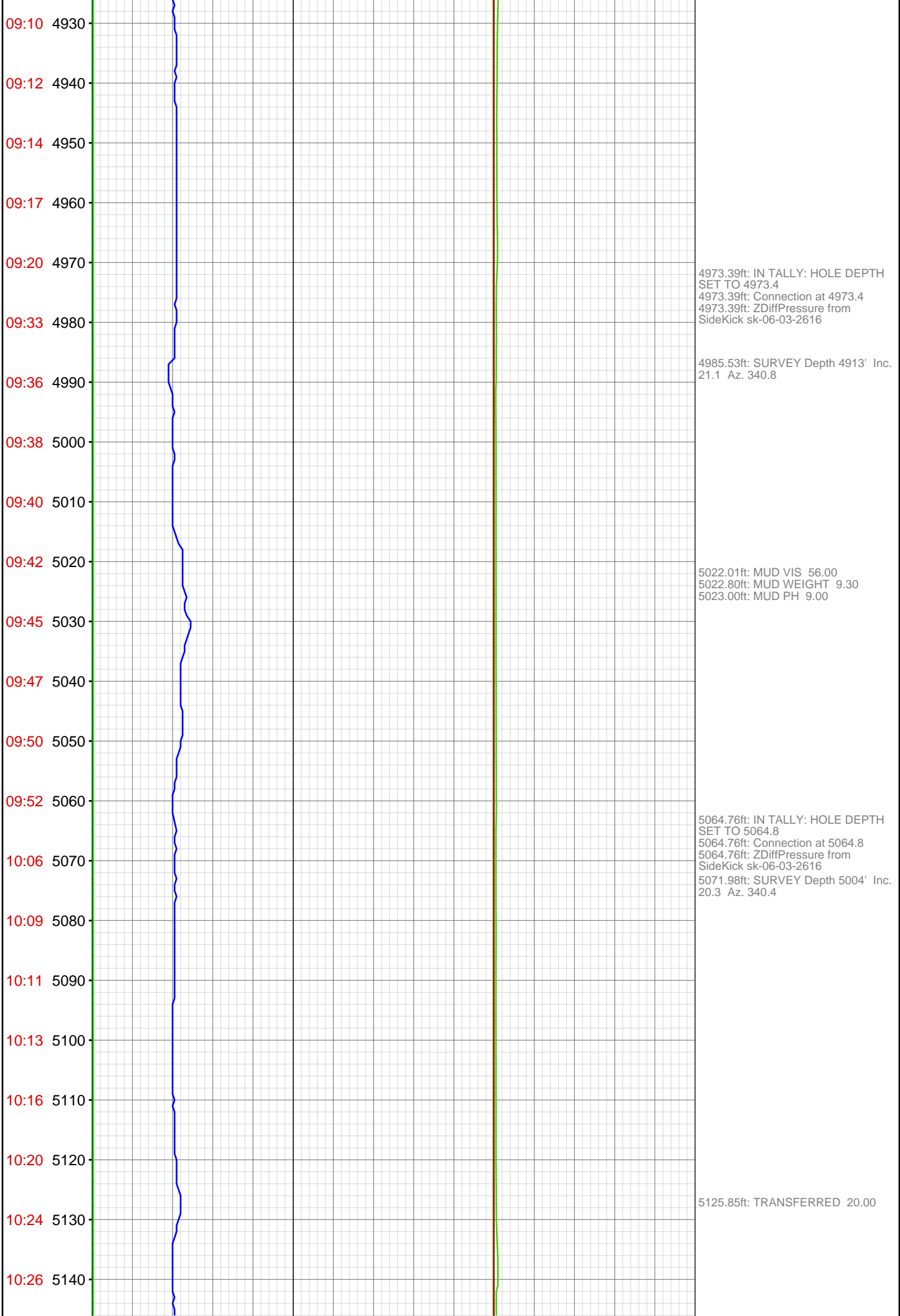
4515.26ft: IN TALLY: HOLE DEPTH
SET TO 4515.3
4515.26ft: Connection at 4515.3
4515.26ft: SURVEY Depth 4455' Inc.
18.3 Az. 338.6
4515.26ft: ZDiffPressure from
SideKick sk-06-03-2616

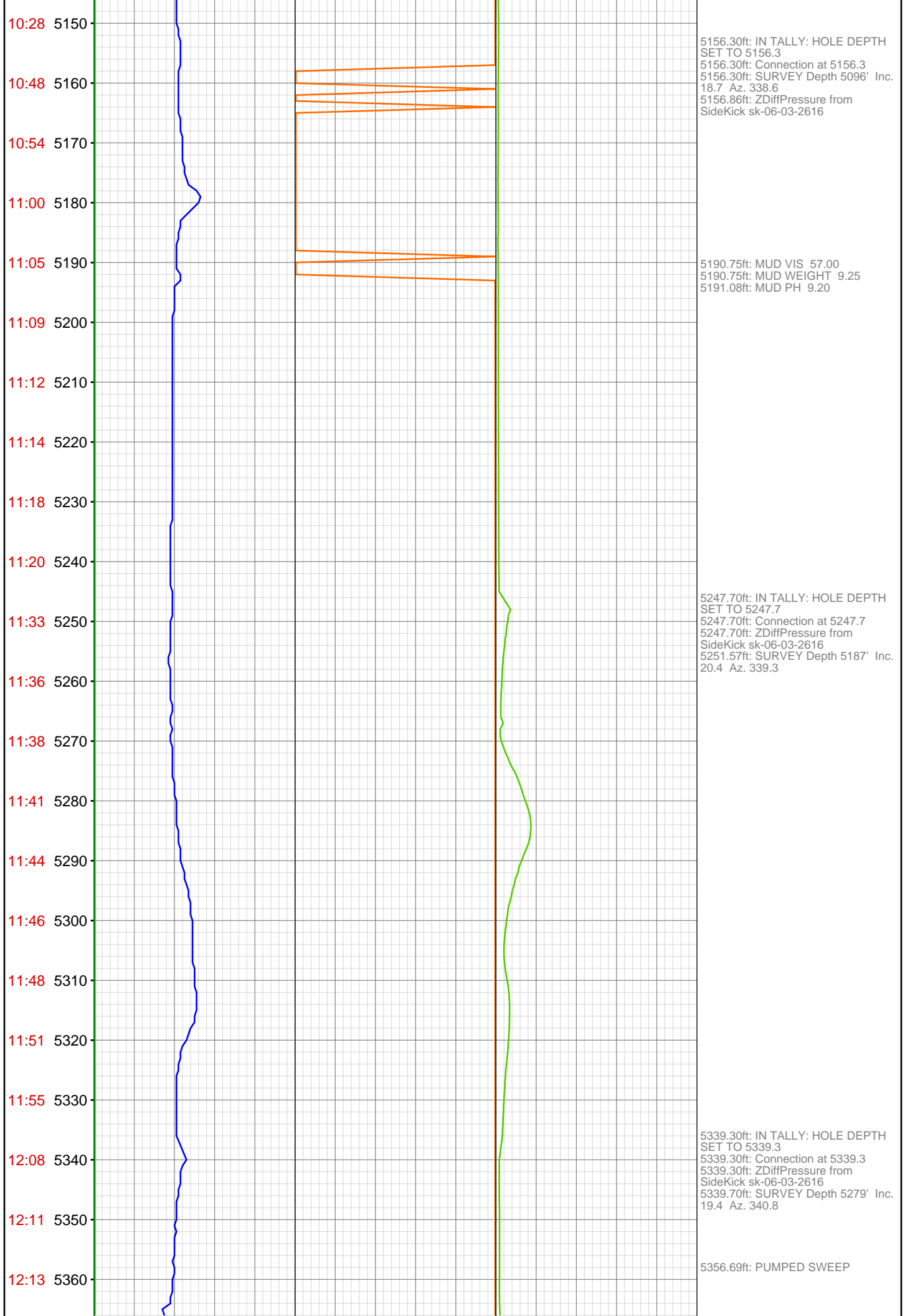
4528.48ft: MUD VIS 65.00
4528.71ft: MUD WEIGHT 9.25
4529.00ft: MUD PH 9.50

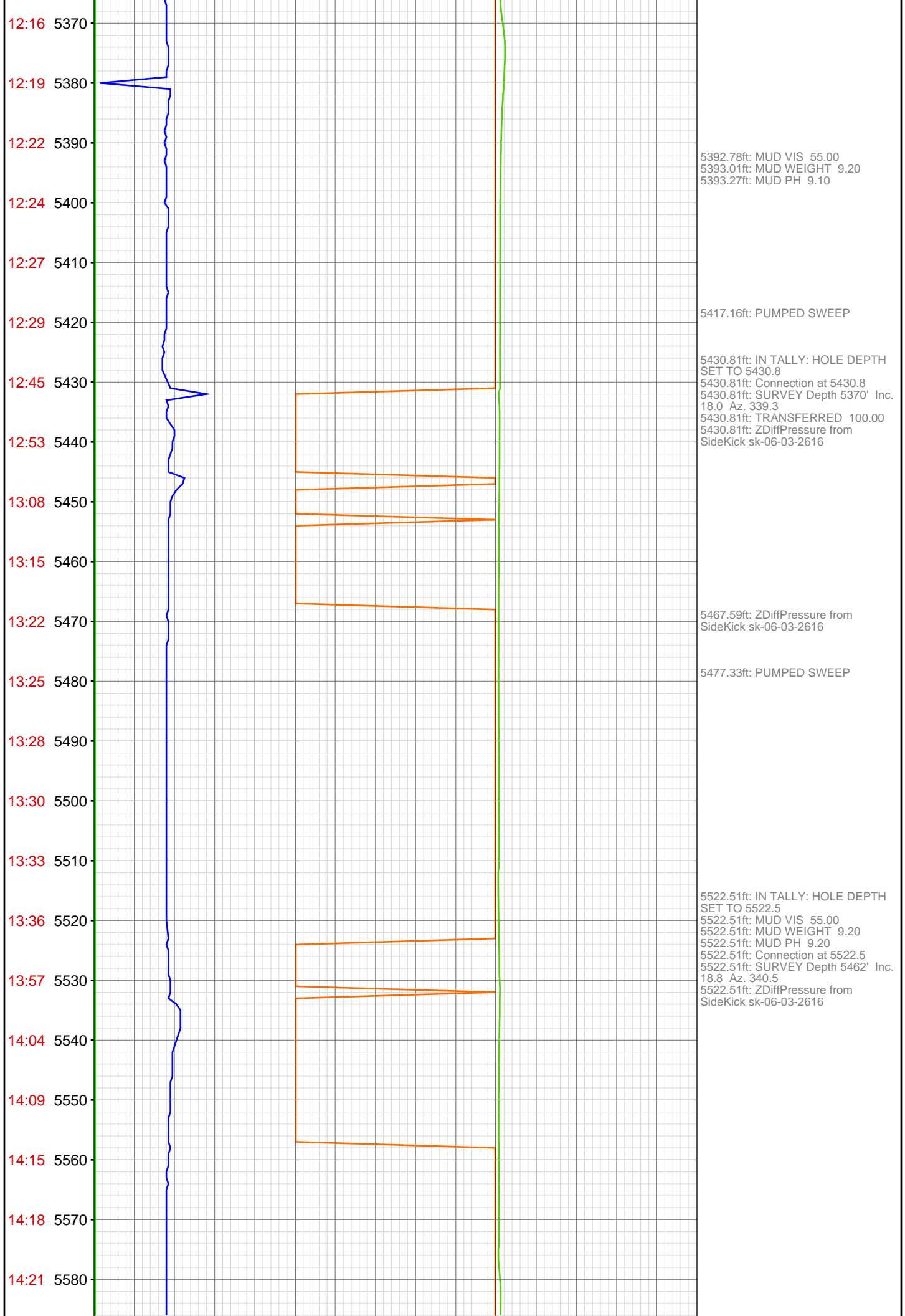
4606.79ft: IN TALLY: HOLE DEPTH
SET TO 4606.8
4606.79ft: SURVEY Depth 4546' Inc.
19.6 Az. 337.6
4606.79ft: ZDiffPressure from
SideKick sk-06-03-2616

4698.43ft: IN TALLY: HOLE DEPTH
SET TO 4698.4
4698.43ft: Connection at 4698.4
4698.43ft: SURVEY Depth 4638' Inc.
18.2 Az. 335.4
4698.43ft: MUD VIS 66.00
4698.43ft: MUD WEIGHT 9.25
4698.43ft: MUD PH 9.50









14:24 5590
14:27 5600
14:29 5610
14:45 5620
14:49 5630
14:52 5640
14:55 5650
14:58 5660
15:03 5670
15:06 5680
15:10 5690
15:14 5700
15:36 5710
15:39 5720
15:42 5730
15:47 5740
15:52 5750
15:55 5760
15:58 5770
16:04 5780
16:08 5790
16:25 5800



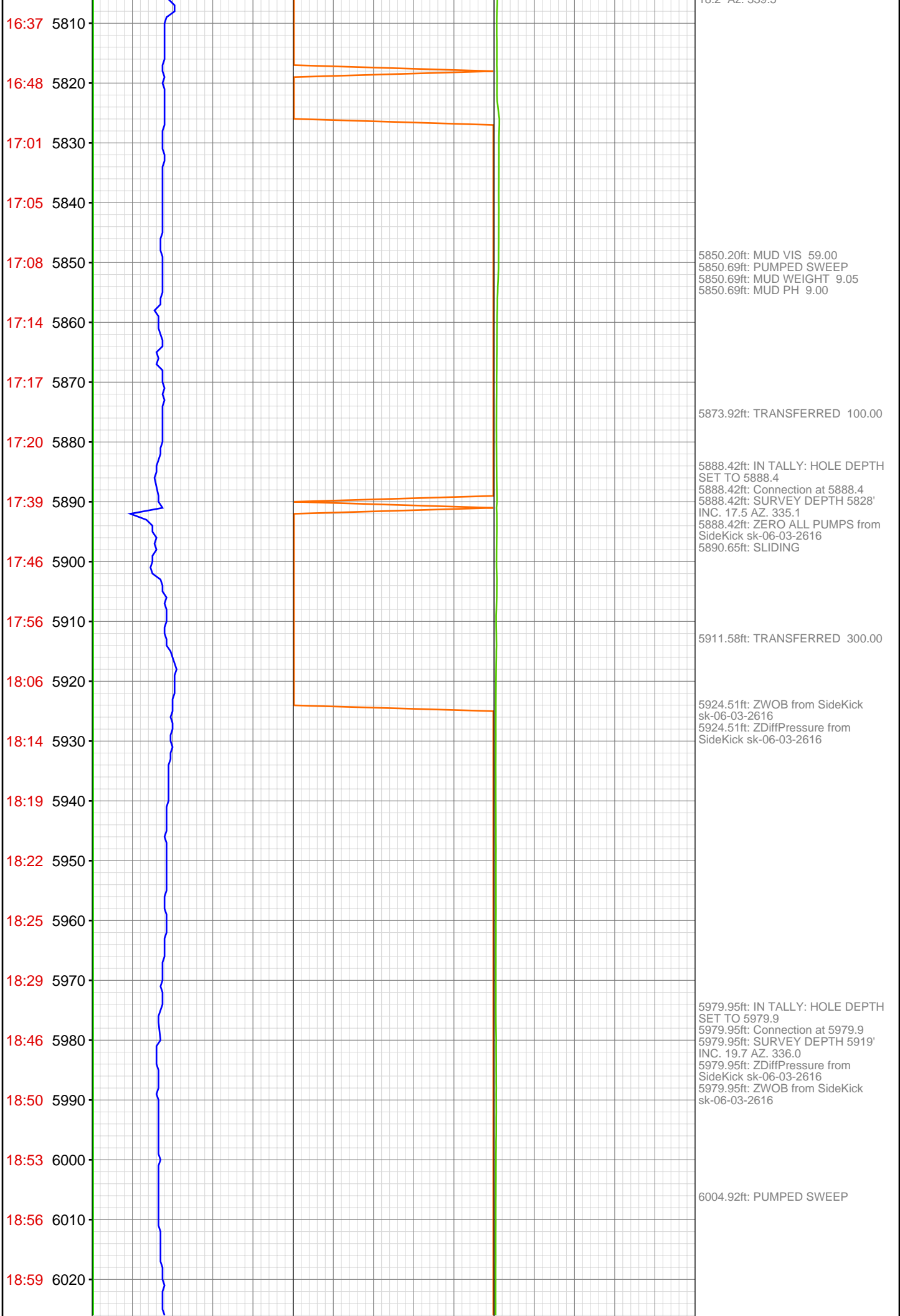
5614.11ft: IN TALLY: HOLE DEPTH
SET TO 5614.1
5614.11ft: MUD VIS 55.00
5614.11ft: MUD WEIGHT 9.20
5614.11ft: MUD PH 9.10
5614.11ft: Connection at 5614.1
5614.11ft: ZDiffPressure from
SideKick sk-06-03-2616
5614.11ft: ZDiffPressure from
SideKick sk-06-03-2616
5622.28ft: SURVEY Depth 5554' Inc.
21.0 Az. 341.7

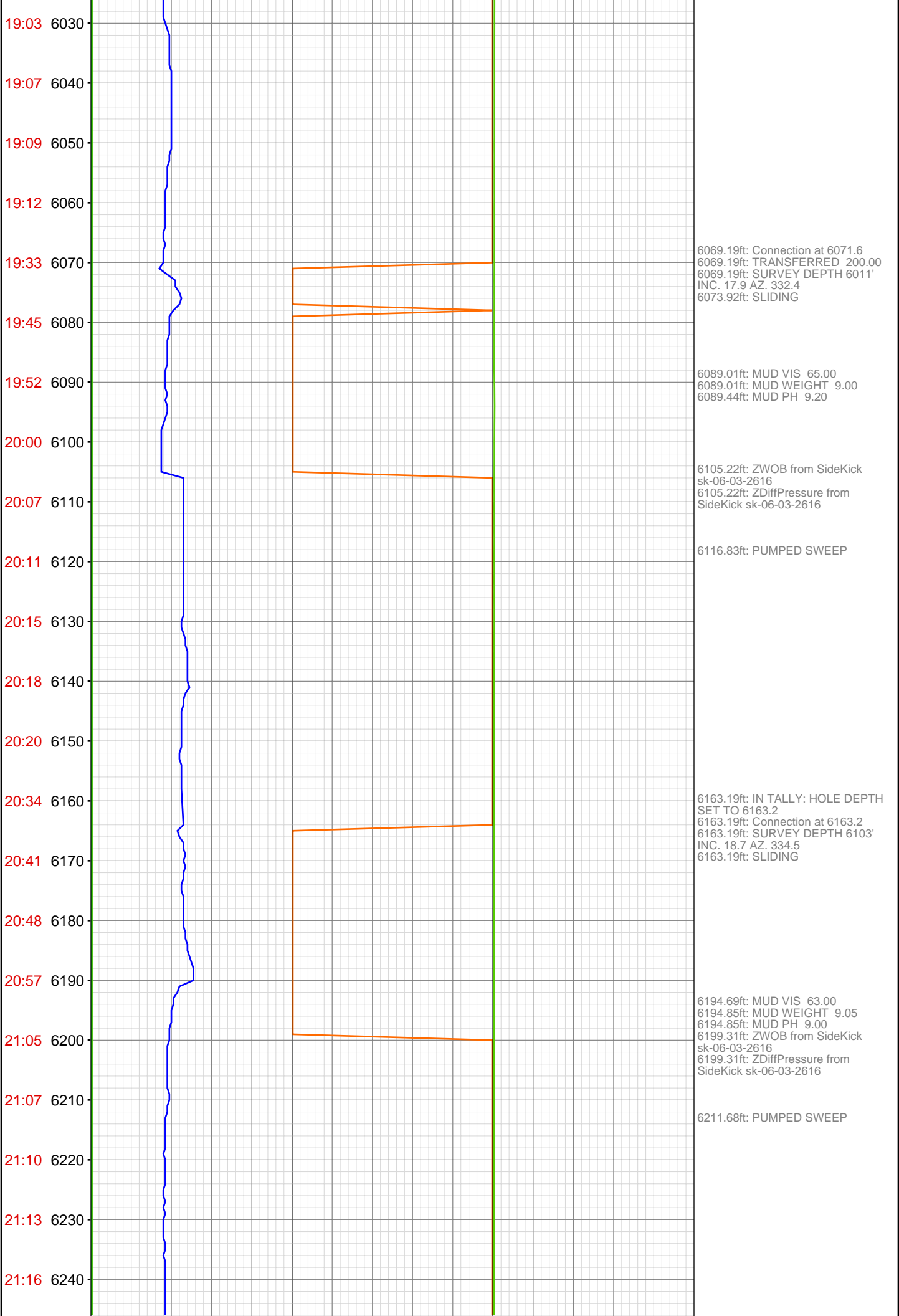
5635.33ft: PUMPED SWEEP

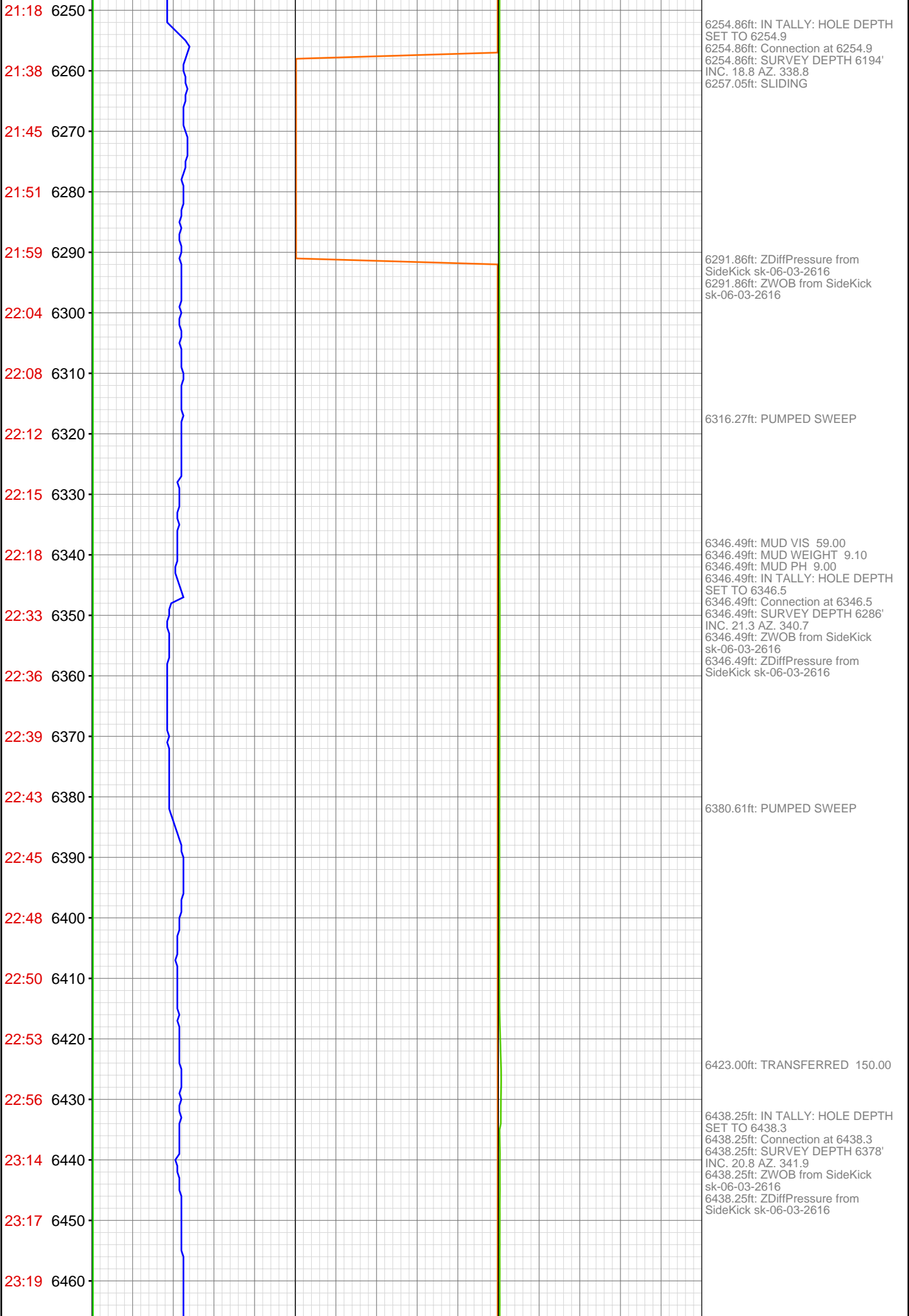
5705.64ft: IN TALLY: HOLE DEPTH
SET TO 5705.6
5705.64ft: Connection at 5705.6
5705.64ft: SURVEY Depth 5645' Inc.
20.0 Az. 340.6
5705.64ft: ZDiffPressure from
SideKick sk-06-03-2616

5750.13ft: PUMPED SWEEP

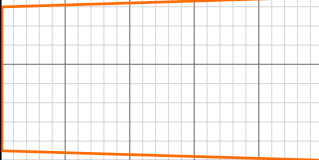
5796.92ft: IN TALLY: HOLE DEPTH
SET TO 5796.9
5796.92ft: MUD VIS 58.00
5796.92ft: MUD WEIGHT 9.00
5796.92ft: MUD PH 8.50
5796.92ft: Connection at 5796.9
5796.92ft: SURVEY Depth 5736' Inc.
18.2 Az. 339.5







23:22 6470
23:25 6480
23:28 6490
23:31 6500
23:33 6510
23:36 6520
23:49 6530
23:51 6540
23:53 6550
23:56 6560
23:58 6570
May 22, 2012
00:01 6580
00:04 6590
00:07 6600
00:09 6610
00:23 6620
00:37 6630
00:46 6640
00:49 6650
00:53 6660
00:56 6670
00:58 6680



6471.95ft: PUMPED SWEEP

6529.92ft: IN TALLY: HOLE DEPTH
SET TO 6529.9
6529.92ft: Connection at 6529.9
6529.92ft: SURVEY DEPTH 6469'
INC. 20.0 AZ. 341.1
6529.92ft: ZDiffPressure from
SideKick sk-06-03-2616
6529.92ft: ZWOB from SideKick
sk-06-03-2616

6589.44ft: PUMPED SWEEP

6621.62ft: IN TALLY: HOLE DEPTH
SET TO 6621.6
6621.62ft: Connection at 6621.6
6621.62ft: MUD VIS 68.00
6621.62ft: MUD WEIGHT 9.15
6621.62ft: MUD PH 9.10
6622.90ft: SURVEY DEPTH 6561'
INC. 18.3 AZ. 340.2

6639.27ft: ZWOB from SideKick
sk-06-03-2616
6639.27ft: ZWOB from SideKick
sk-06-03-2616

6663.19ft: PUMPED SWEEP

01:01 6690
01:04 6700
01:08 6710
01:24 6720
01:27 6730
01:30 6740
01:32 6750
01:35 6760
01:39 6770
01:42 6780
01:45 6790
01:48 6800
02:04 6810
02:07 6820
02:11 6830
02:14 6840
02:16 6850
02:19 6860
02:22 6870
02:25 6880
02:28 6890
02:41 6900



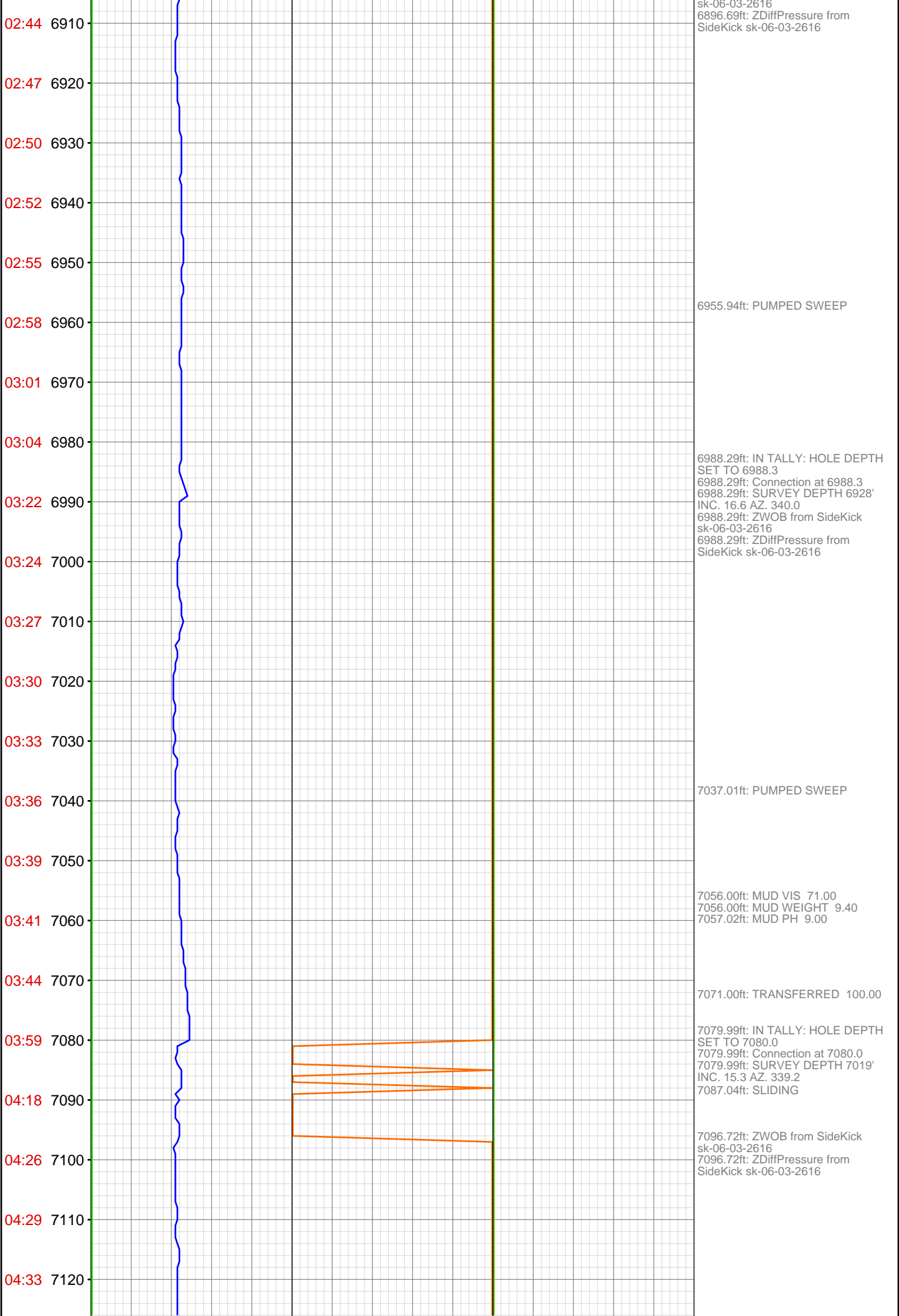
6713.29ft: IN TALLY: HOLE DEPTH
SET TO 6713.3
6713.29ft: Connection at 6713.3
6713.29ft: SURVEY DEPTH 6653'
INC. 19.4 AZ. 340.7
6713.29ft: MUD VIS 60.00
6713.29ft: MUD WEIGHT 9.20
6713.29ft: MUD PH 9.20
6713.29ft: ZWOB from SideKick
sk-06-03-2616
6713.29ft: ZDiffPressure from
SideKick sk-06-03-2616

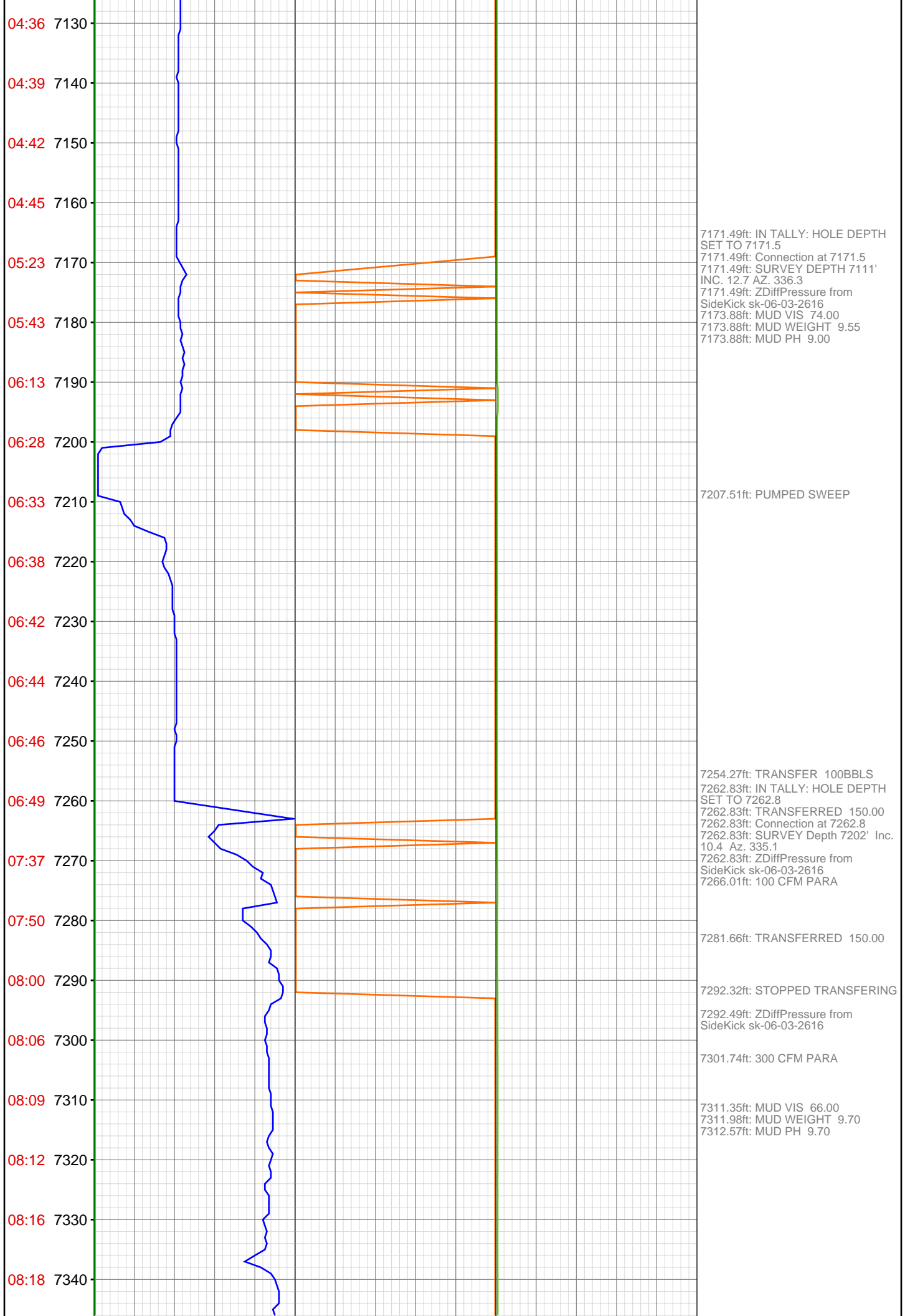
6754.33ft: PUMPED SWEEP

6804.95ft: IN TALLY: HOLE DEPTH
SET TO 6805.0
6804.95ft: SURVEY DEPTH 6744'
INC. 18.5 AZ. 341.1 Connection at
6804.9
6804.95ft: ZERO PUMP1 from
SideKick sk-06-03-2616
6804.95ft: ZWOB from SideKick
sk-06-03-2616
6804.95ft: ZDiffPressure from
SideKick sk-06-03-2616

6854.46ft: PUMPED SWEEP

6896.69ft: IN TALLY: HOLE DEPTH
SET TO 6896.7
6896.69ft: Connection at 6896.7
6896.69ft: SURVEY DEPTH 6836'
INC. 17.6 AZ. 340.3
6896.69ft: MUD VIS 69.00
6896.69ft: MUD WEIGHT 9.30
6896.69ft: MUD PH 9.30
6896.69ft: MUD WEIGHT 9.30
6896.69ft: ZWOB from SideKick





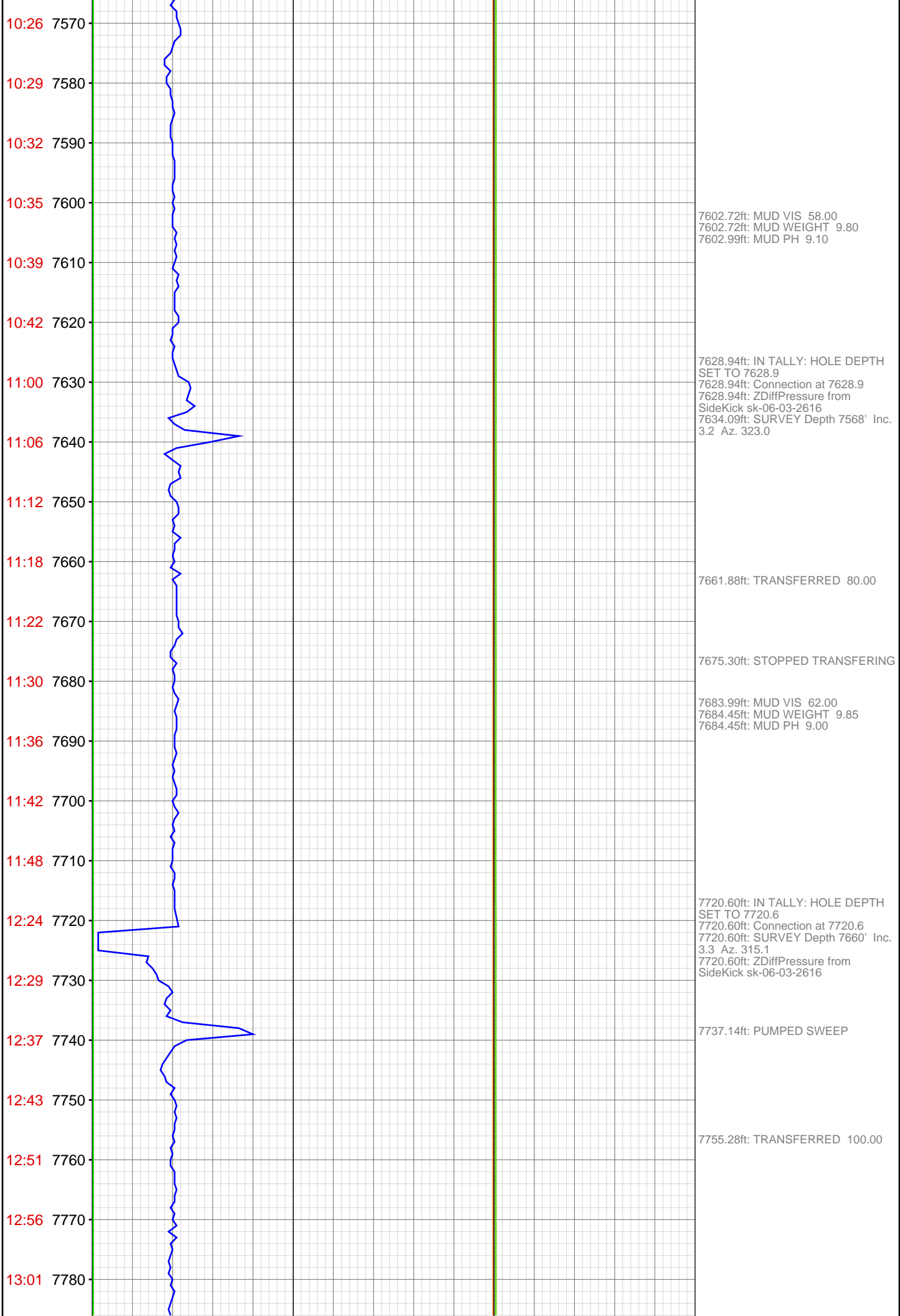
08:22 7350
08:46 7360
08:52 7370
09:00 7380
09:03 7390
09:06 7400
09:08 7410
09:12 7420
09:15 7430
09:18 7440
09:33 7450
09:38 7460
09:42 7470
09:45 7480
09:49 7490
09:53 7500
09:56 7510
09:58 7520
10:02 7530
10:18 7540
10:20 7550
10:23 7560

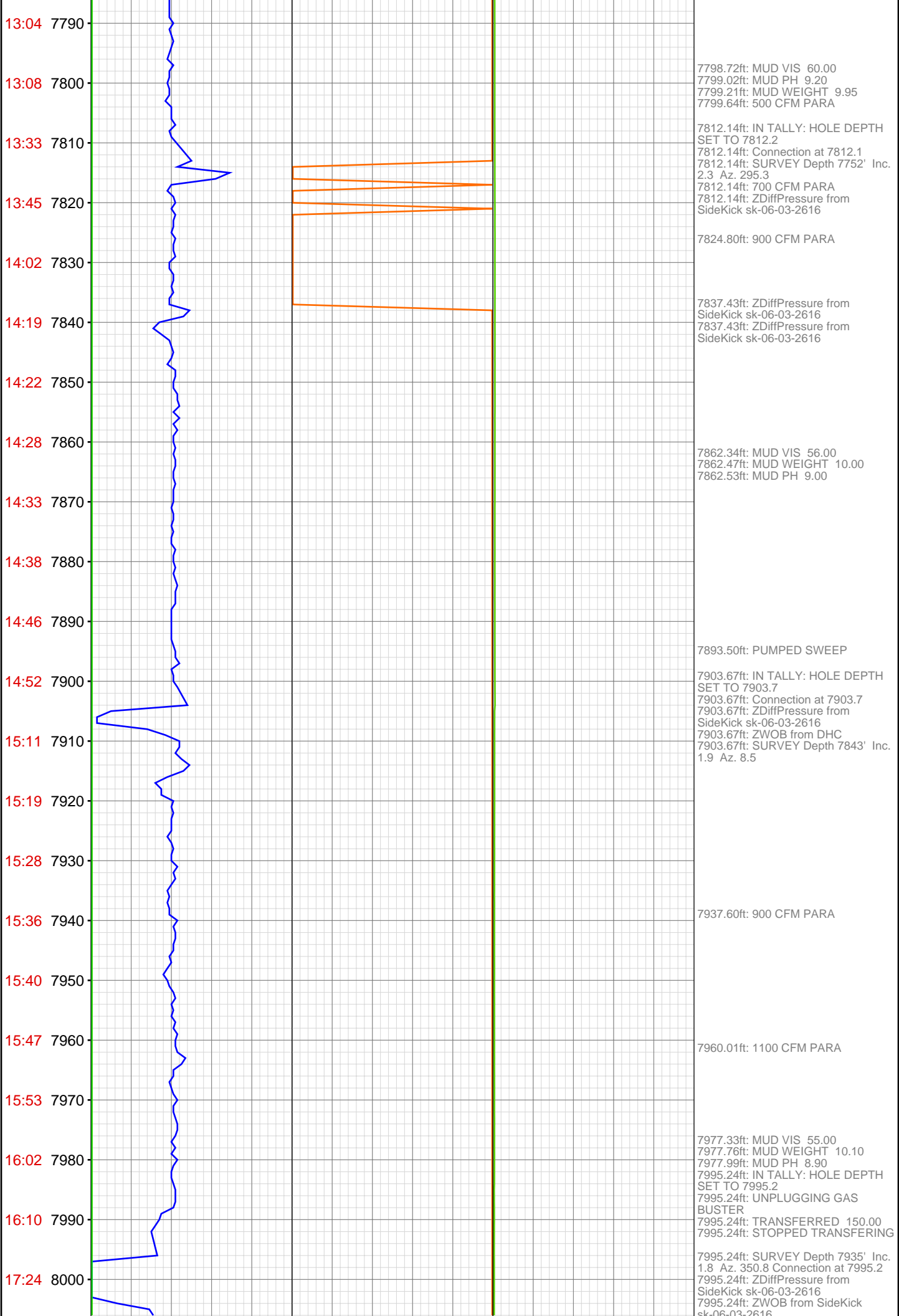


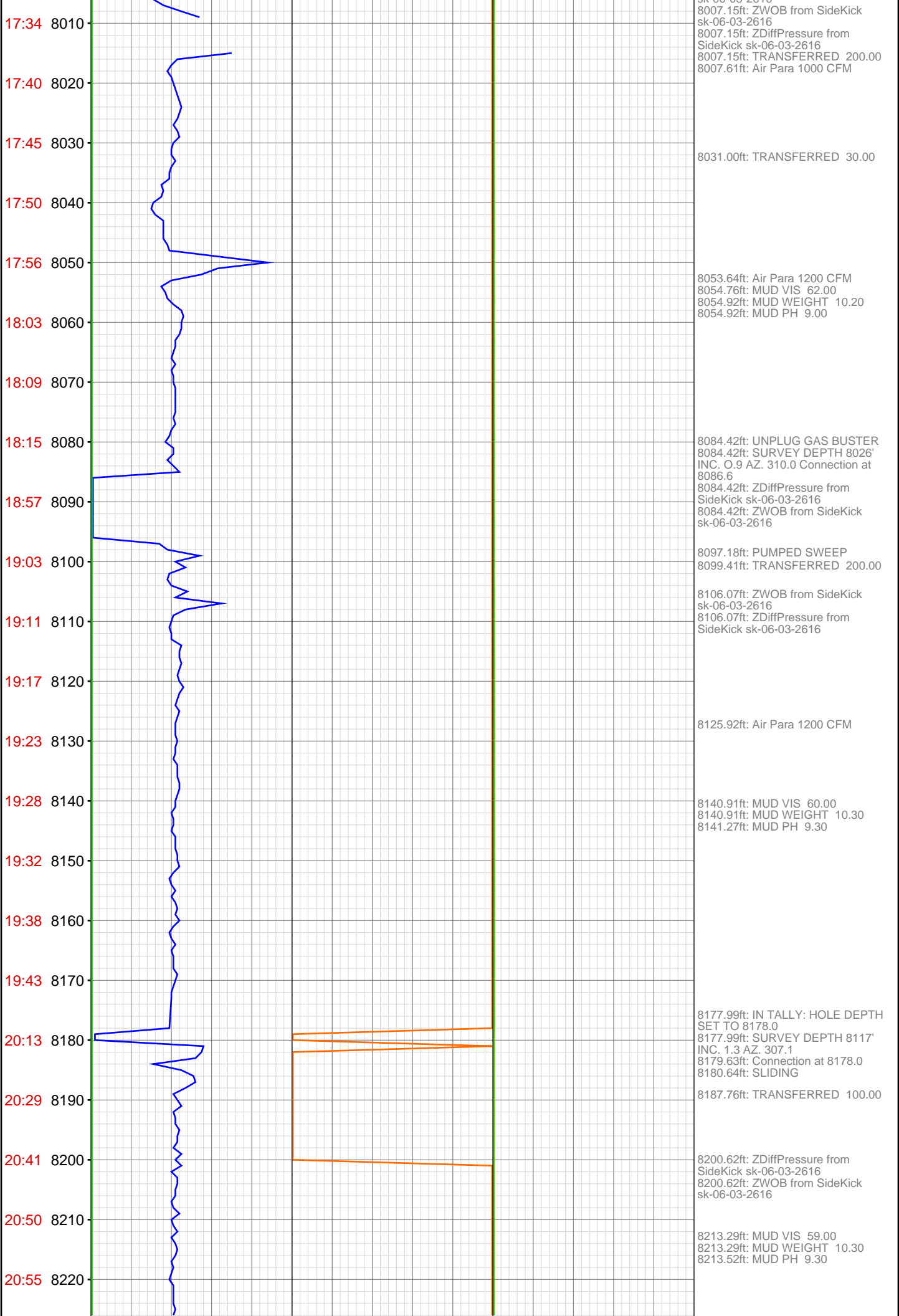
7354.27ft: IN TALLY: HOLE DEPTH
SET TO 7354.3
7354.27ft: 500 CFM PARA
7354.27ft: Connection at 7354.3
7354.27ft: SURVEY Depth 7294' Inc.
7.5 Az. 349.3
7354.27ft: ZDiffPressure from
SideKick sk-06-03-2616

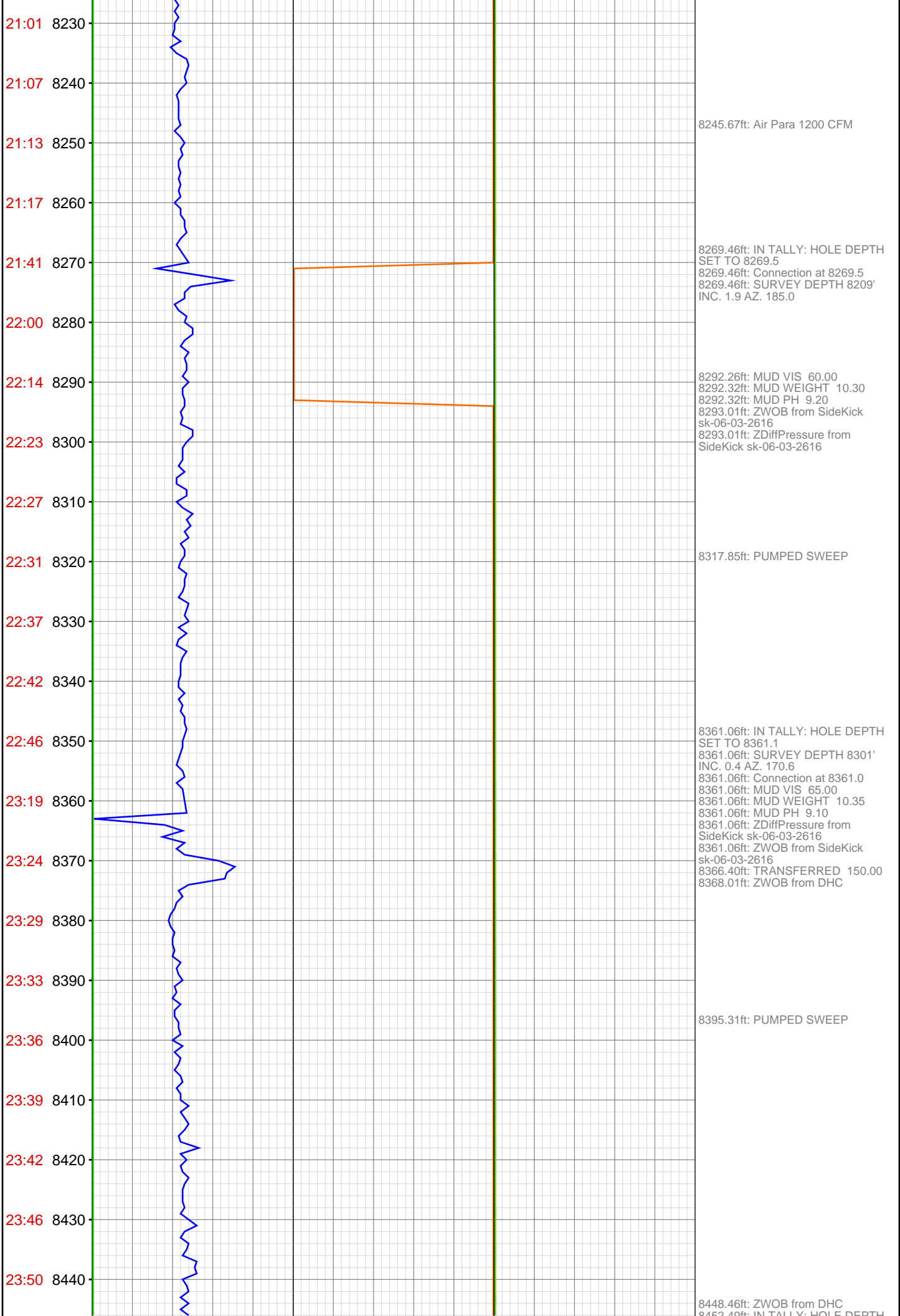
7442.82ft: IN TALLY: HOLE DEPTH
SET TO 7445.8
7445.83ft: 500 CFM PARA
7445.83ft: Connection at 7445.8
7445.83ft: ZDiffPressure from
SideKick sk-06-03-2616
7445.83ft: MUD VIS 61.00
7445.83ft: MUD WEIGHT 9.75
7445.83ft: MUD PH 9.50
7448.66ft: SURVEY Depth 7385' Inc.
4.2 Az. 332.9
7450.49ft: PUMPED SWEEP

7537.24ft: IN TALLY: HOLE DEPTH
SET TO 7537.3
7537.24ft: Connection at 7537.3
7537.24ft: SURVEY Depth 7477' Inc.
3.8 Az. 319.5
7537.24ft: ZDiffPressure from
SideKick sk-06-03-2616









23:53 8450

May 23, 2012

00:29 8460

00:37 8470

00:43 8480

00:49 8490

00:54 8500

01:00 8510

01:06 8520

01:11 8530

01:16 8540

01:45 8550

02:09 8560

02:24 8570

02:33 8580

02:40 8590

02:45 8600

02:49 8610

02:56 8620

03:00 8630

03:28 8640

03:35 8650

03:40 8660

8452.49ft: IN TALLY: HOLE DEPTH
SET TO 8452.5
8452.49ft: Connection at 8452.5
8452.49ft: MUD VIS 67.00
8452.49ft: MUD WEIGHT 10.35
8452.49ft: MUD PH 9.00
8452.49ft: SURVEY DEPTH 8392'
INC. 0.4 AZ. 283.3
8452.49ft: ZWOB from SideKick
sk-06-03-2616
8452.49ft: ZDiffPressure from
SideKick sk-06-03-2616
8469.06ft: ZWOB from SideKick
sk-06-03-2616
8469.06ft: ZDiffPressure from
SideKick sk-06-03-2616
8471.49ft: TRANSFERRED 150.00

8483.69ft: PUMPED SWEEP

8506.23ft: ZWOB from SideKick
sk-06-03-2616
8506.23ft: ZDiffPressure from
SideKick sk-06-03-2616

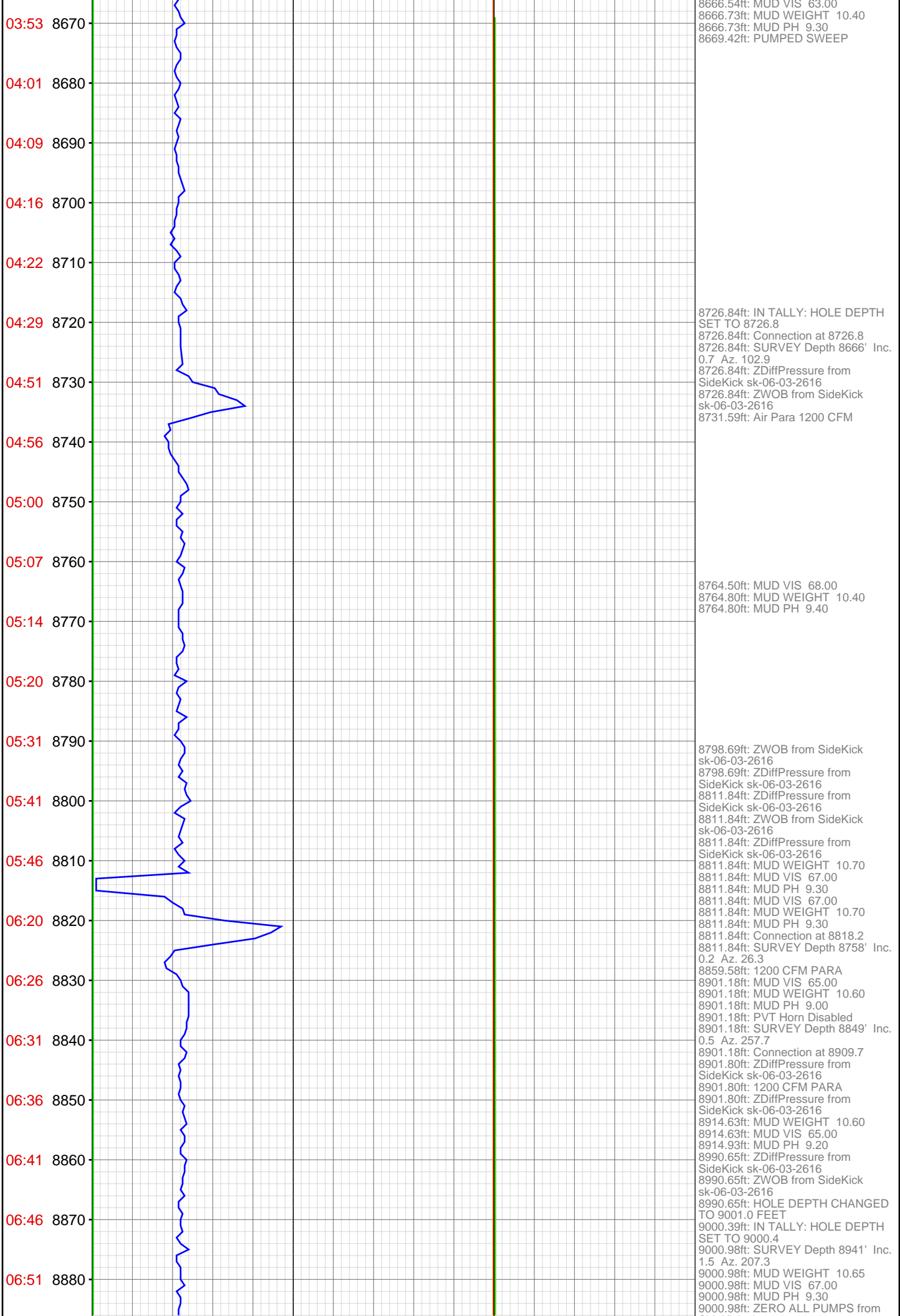
8535.11ft: PUMP CATCH TANK
8542.00ft: IN TALLY: HOLE DEPTH
SET TO 8543.9
8543.87ft: MUD VIS 64.00
8543.87ft: MUD WEIGHT 10.35
8543.87ft: MUD PH 9.70
8543.87ft: SURVEY DEPTH 8483'
INC. 1.7 AZ. 228.0
8543.87ft: Connection at 8543.9
8550.75ft: SLIDING

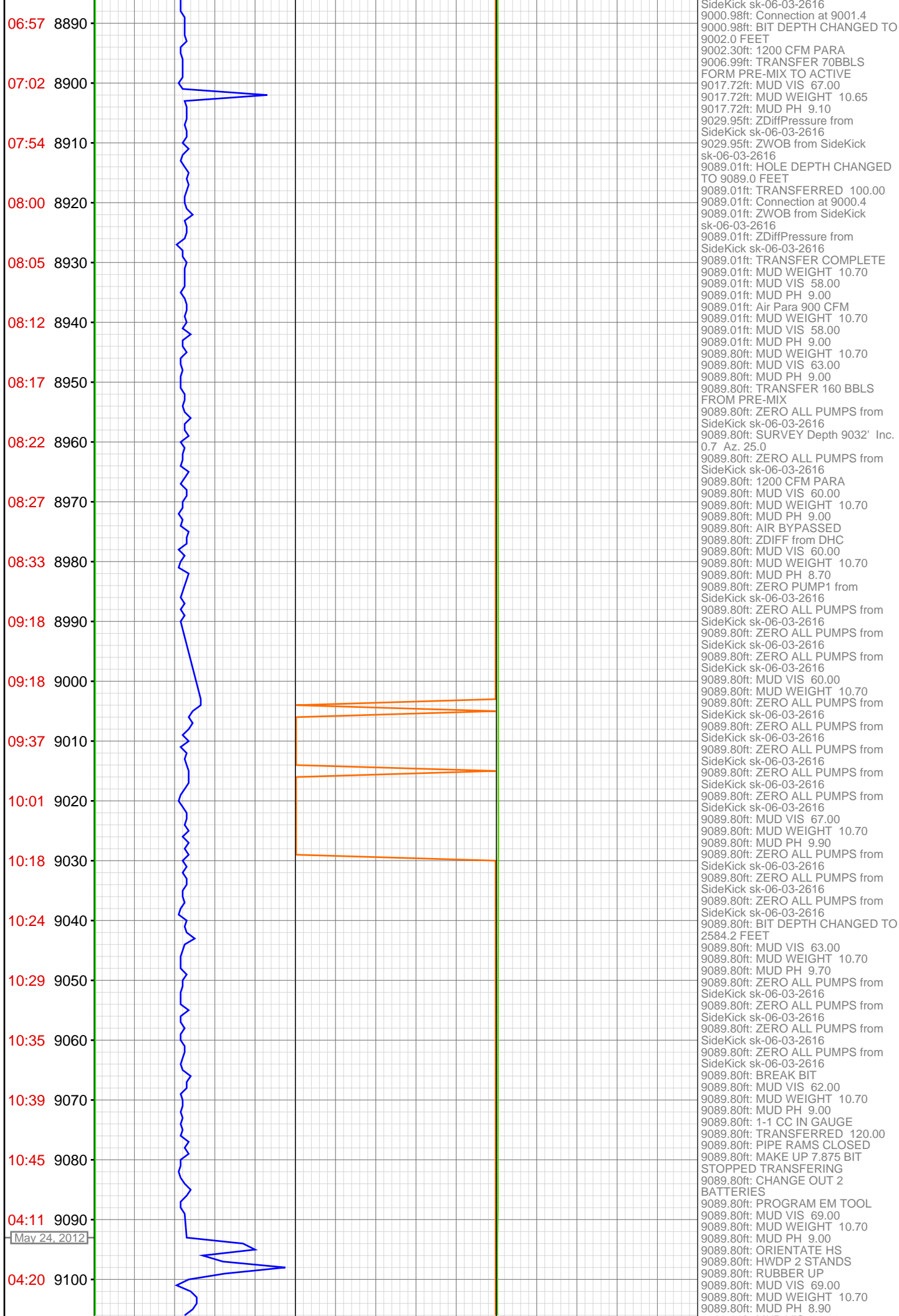
8571.65ft: ZWOB from SideKick
sk-06-03-2616
8571.65ft: ZDiffPressure from
SideKick sk-06-03-2616
8571.65ft: MUD VIS 68.00
8571.65ft: MUD WEIGHT 10.35
8571.65ft: MUD PH 9.20

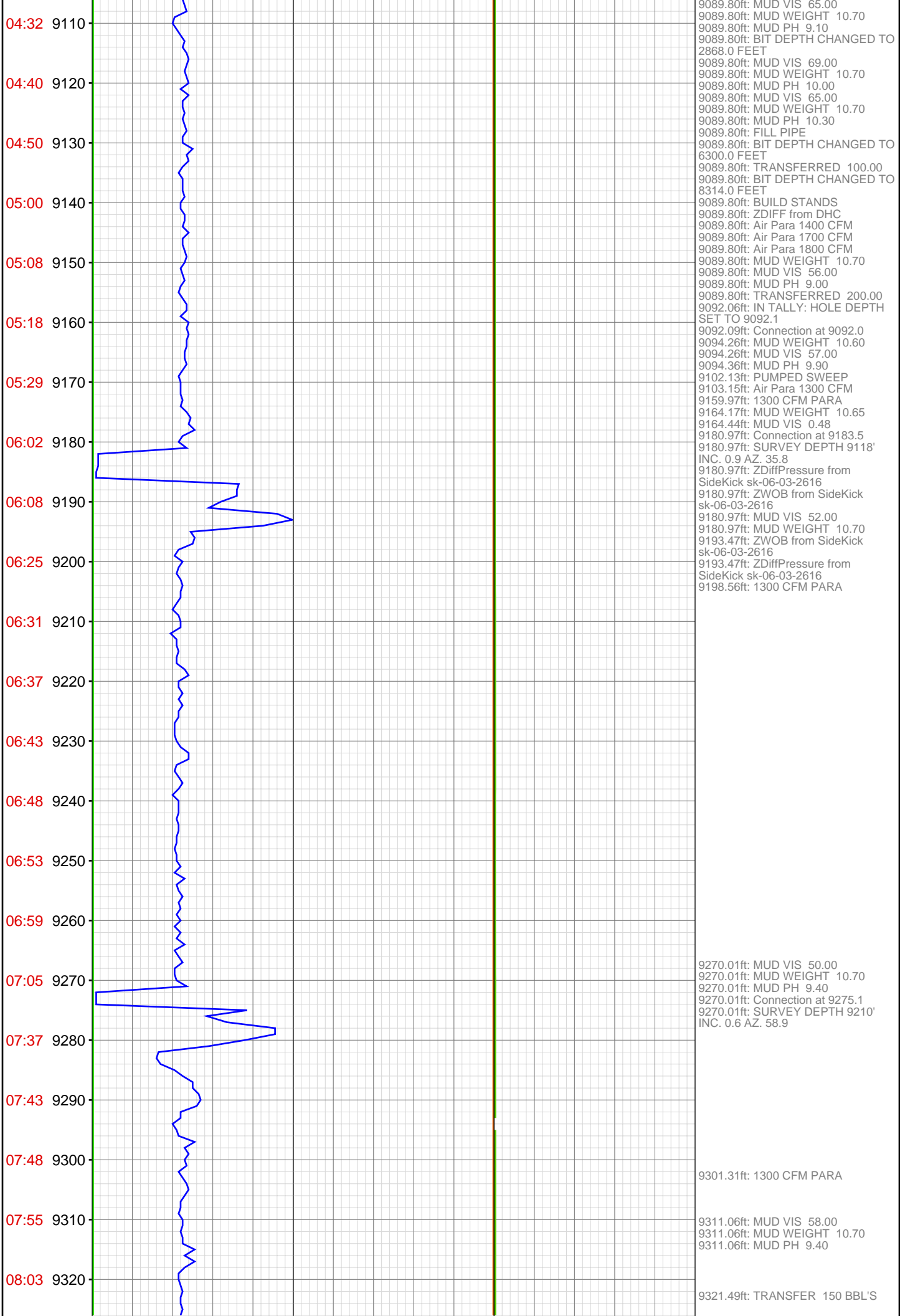
8599.87ft: PUMPED SWEEP

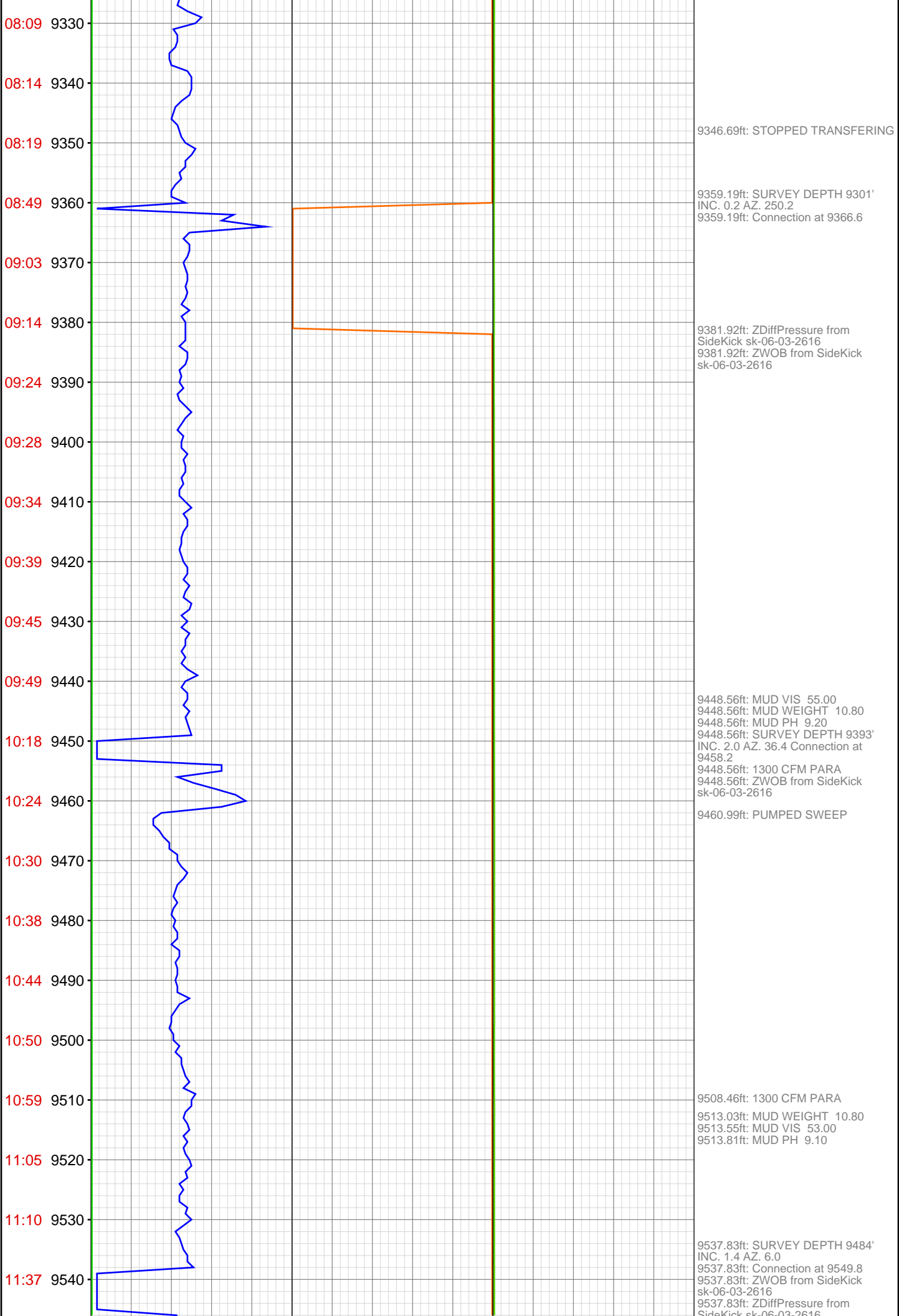
8635.33ft: IN TALLY: HOLE DEPTH
SET TO 8635.3
8635.33ft: SURVEY DEPTH 8575'
INC. 0.8 AZ. 23.9
8635.33ft: Connection at 8635.3
8635.33ft: ZDiffPressure from
SideKick sk-06-03-2616
8635.33ft: ZWOB from SideKick
sk-06-03-2616
8635.33ft: Air Para 1200 CFM

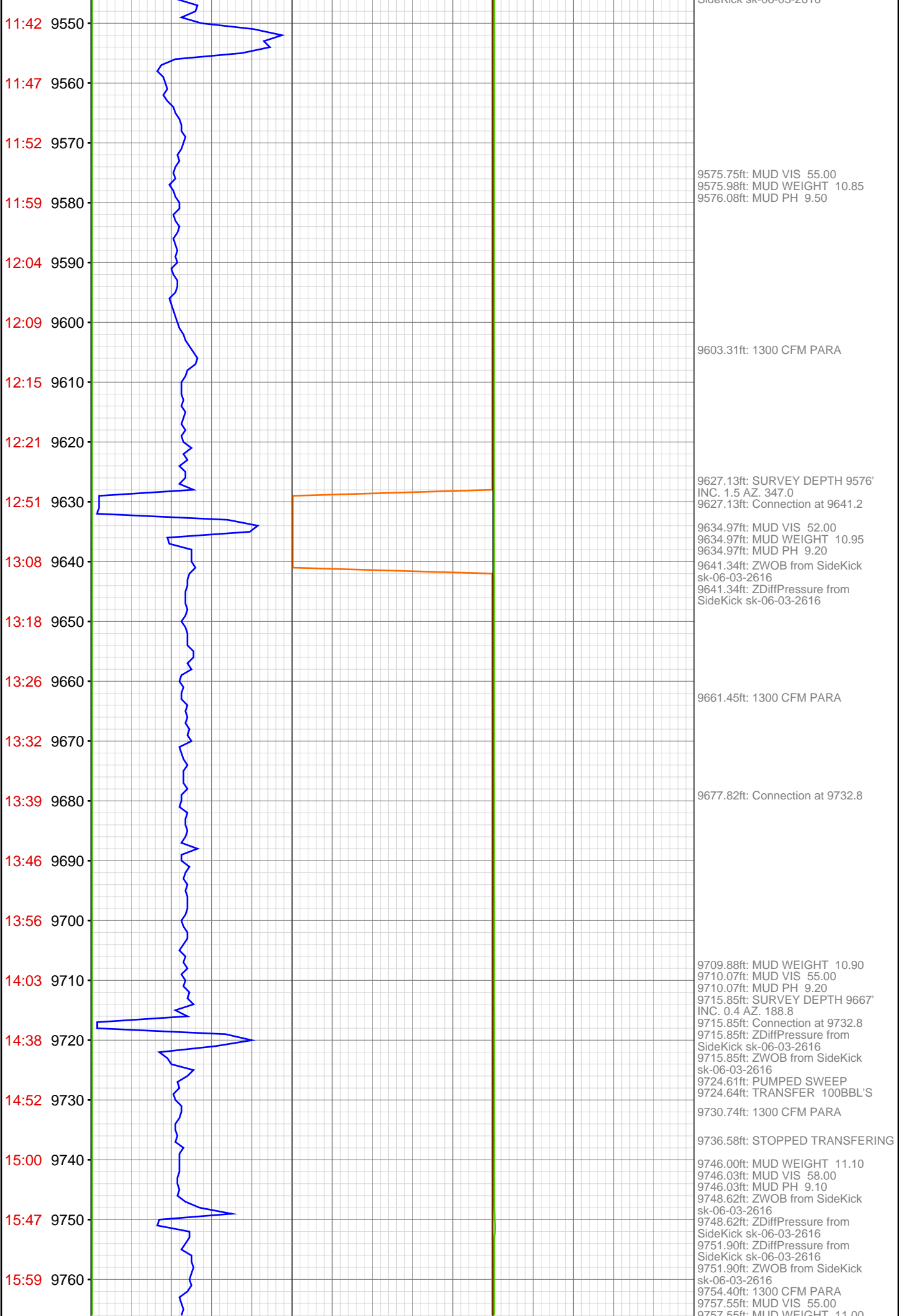
8657.58ft: TRANSFERRED 70.00
8663.42ft: ZWOB from SideKick
sk-06-03-2616
8663.42ft: ZDiffPressure from
SideKick sk-06-03-2616

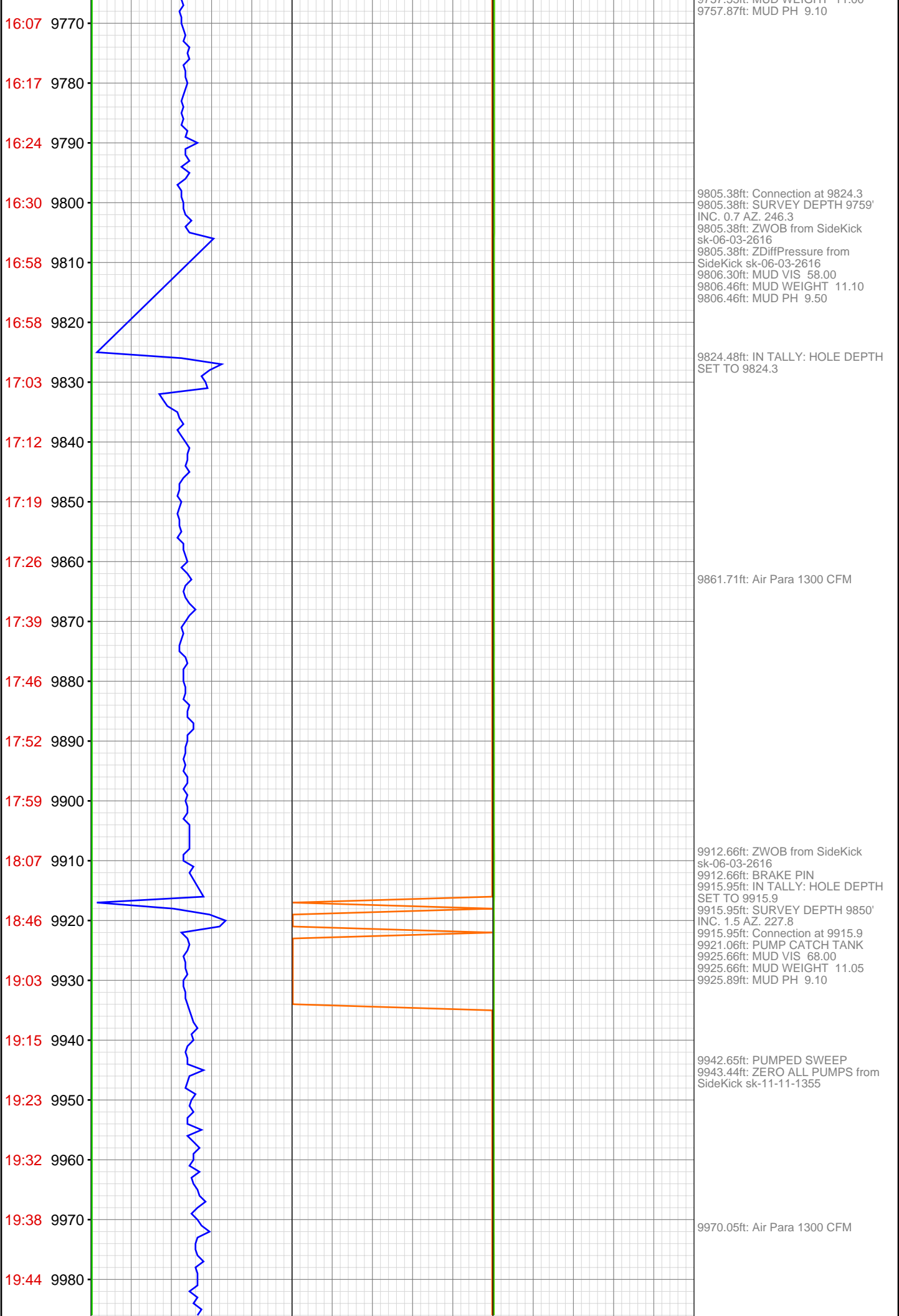


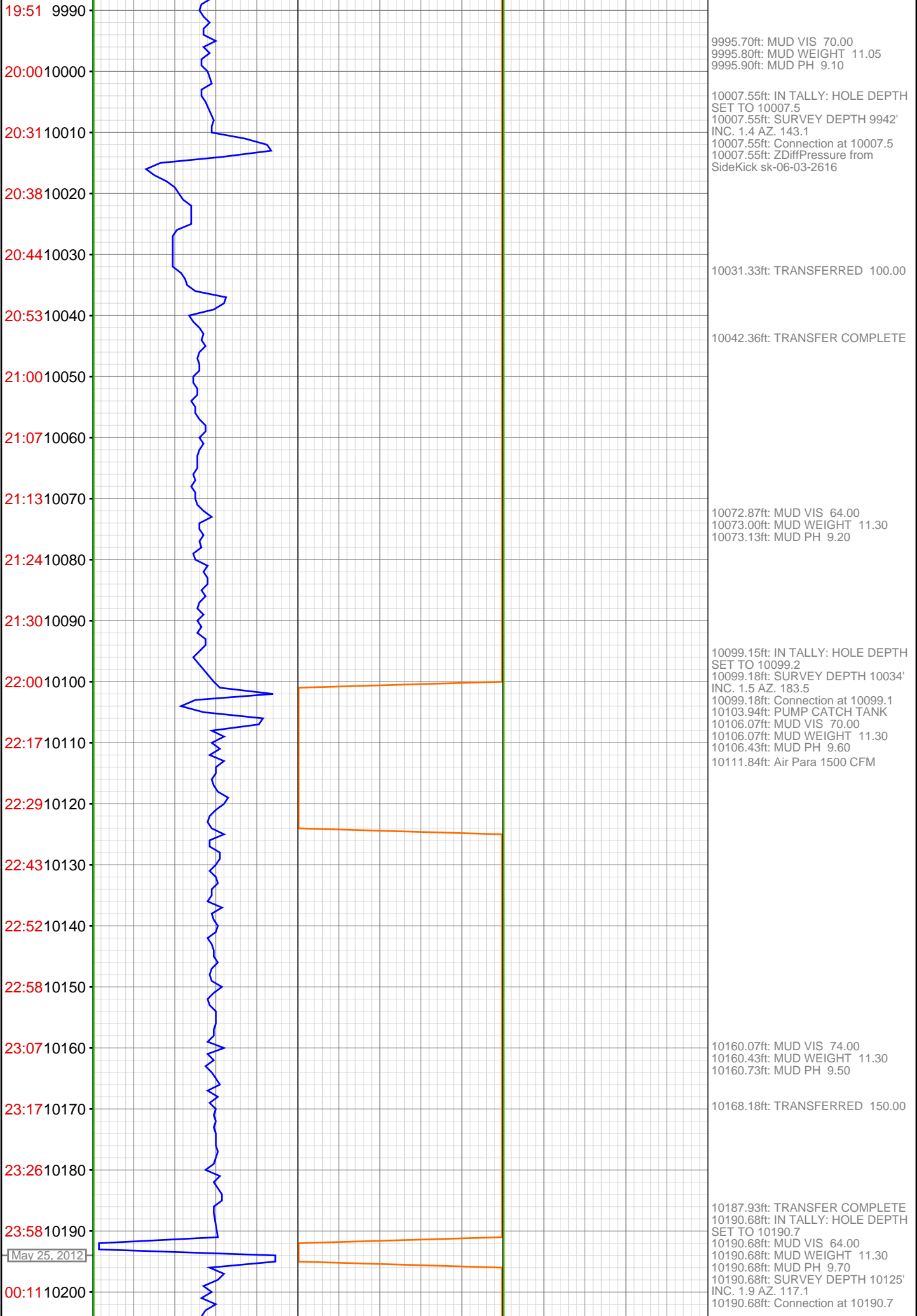


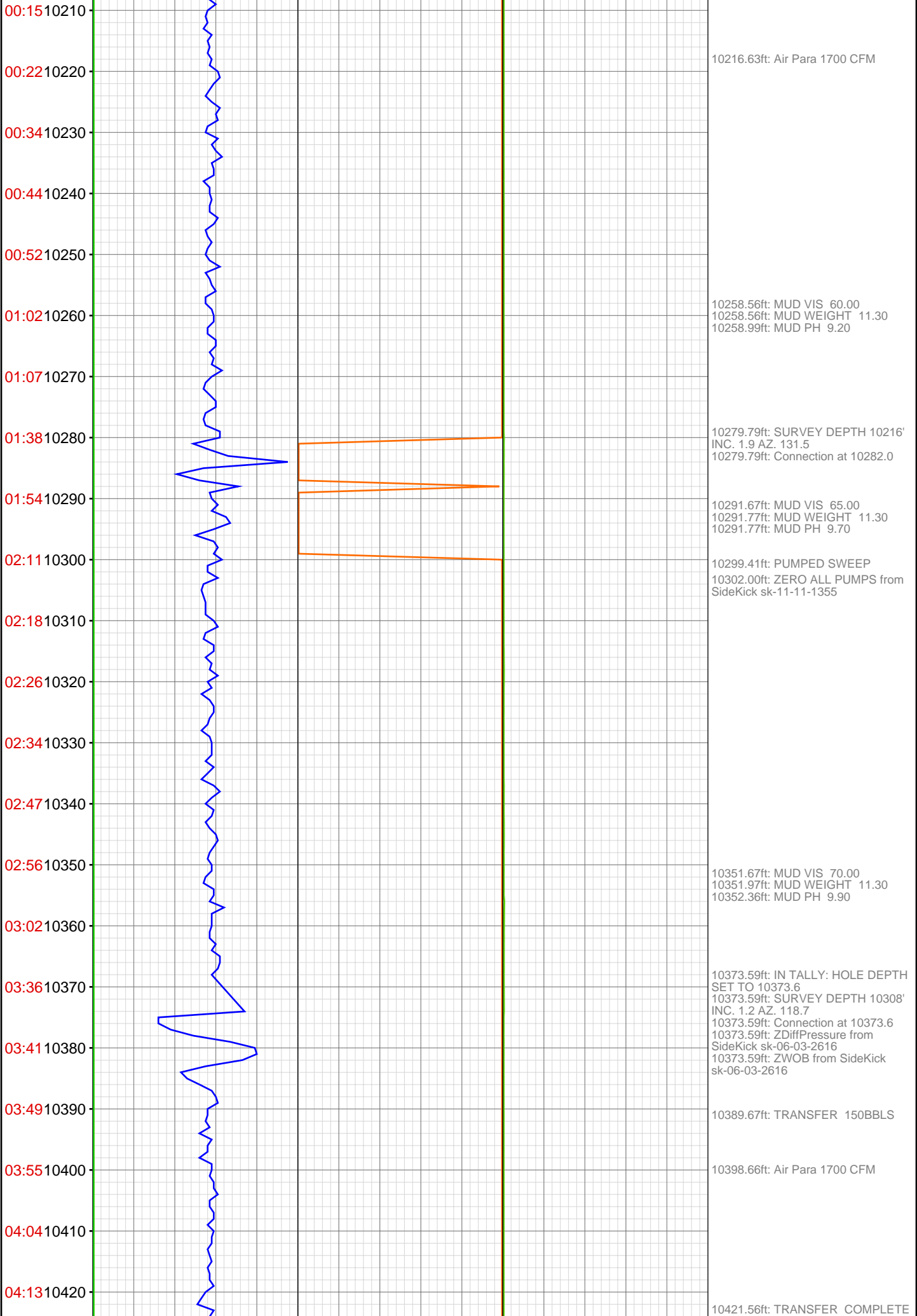


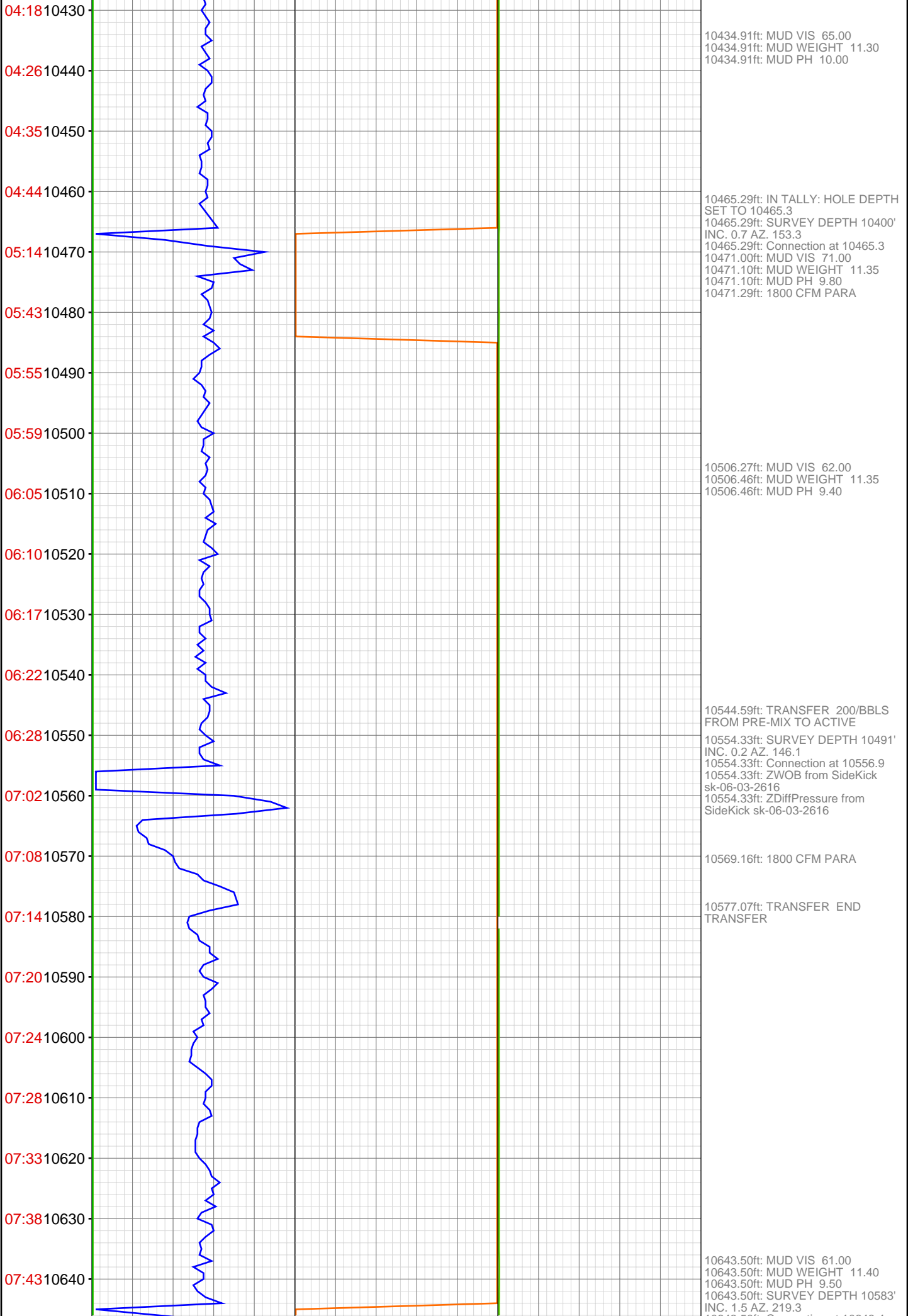


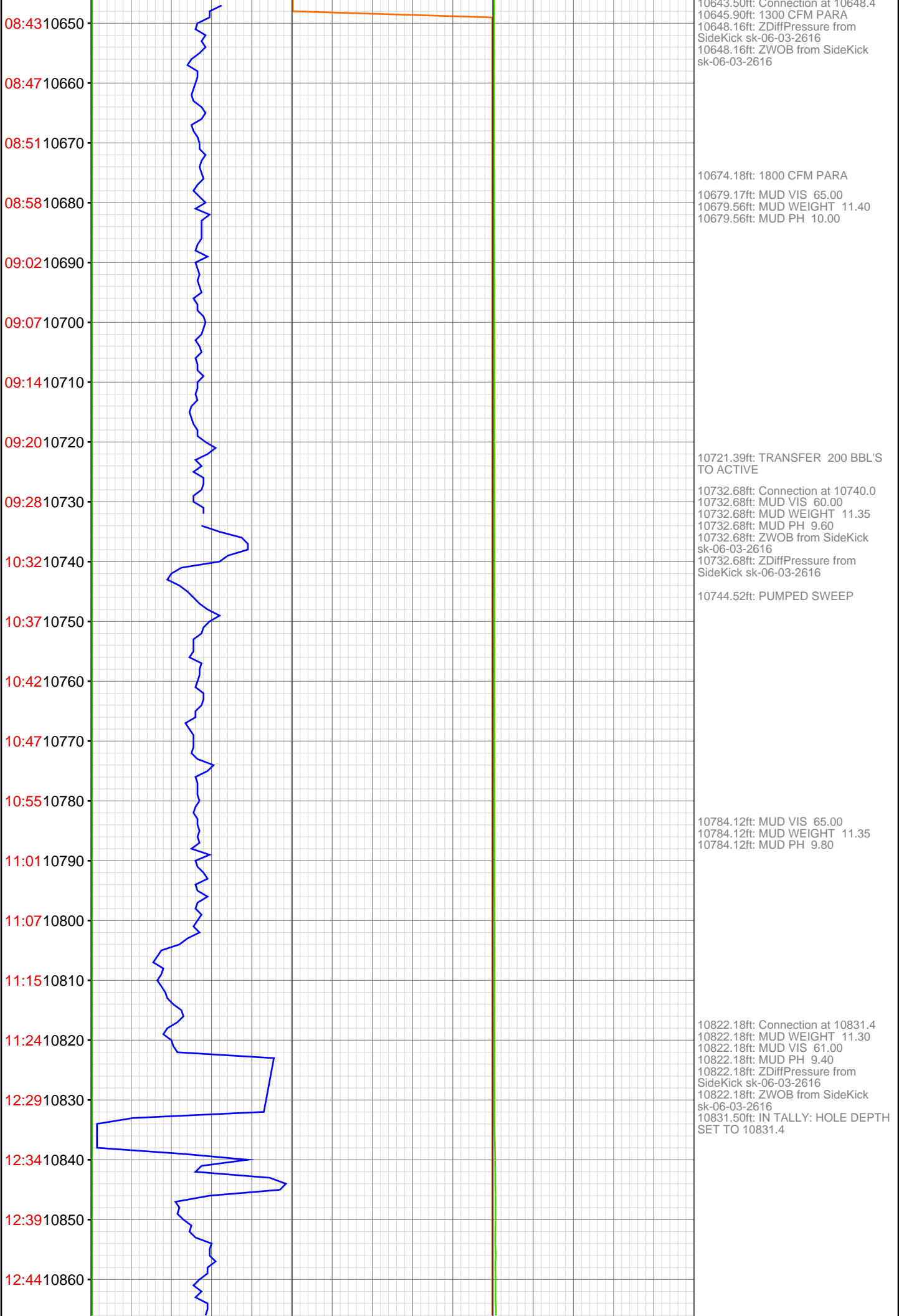


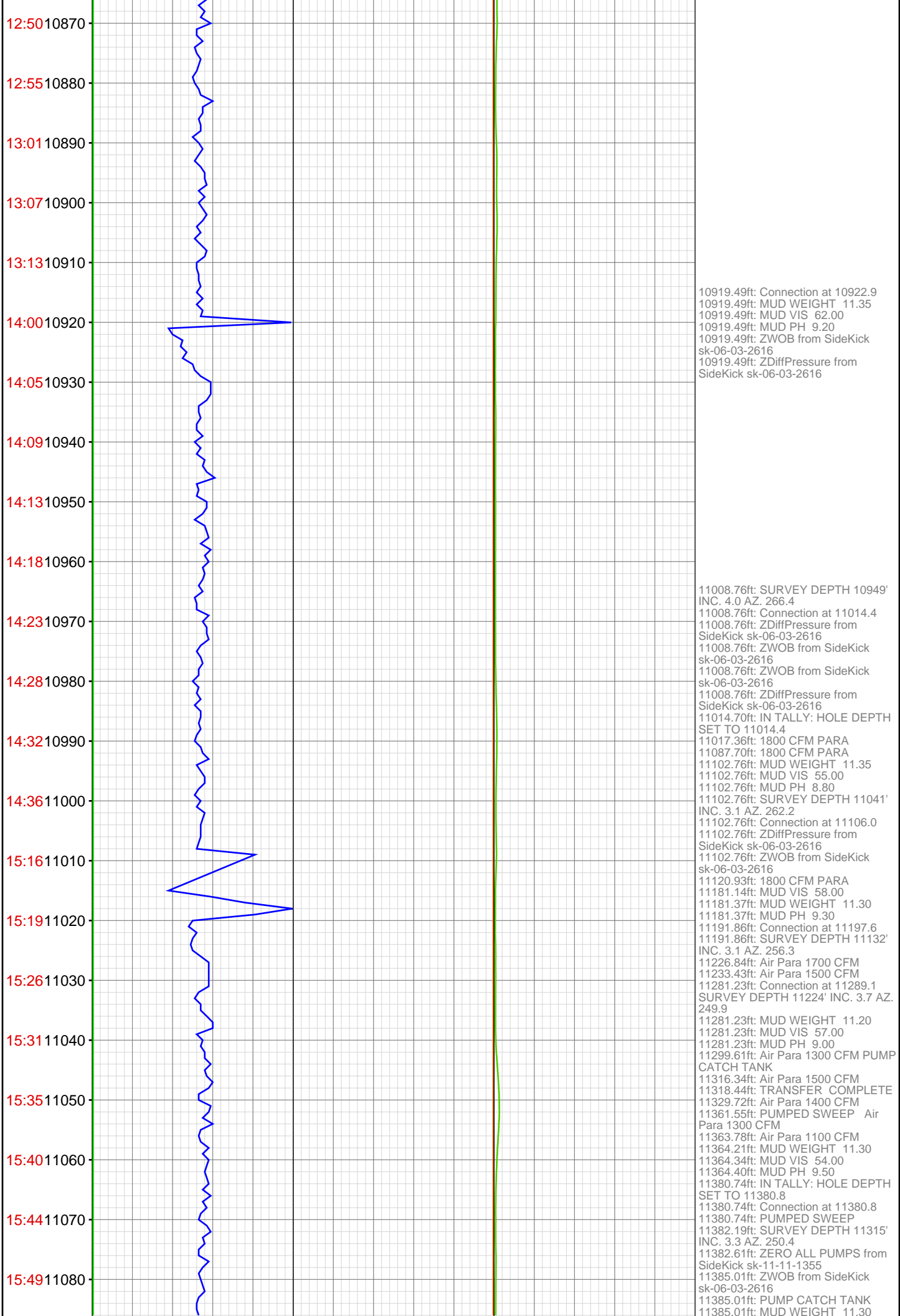


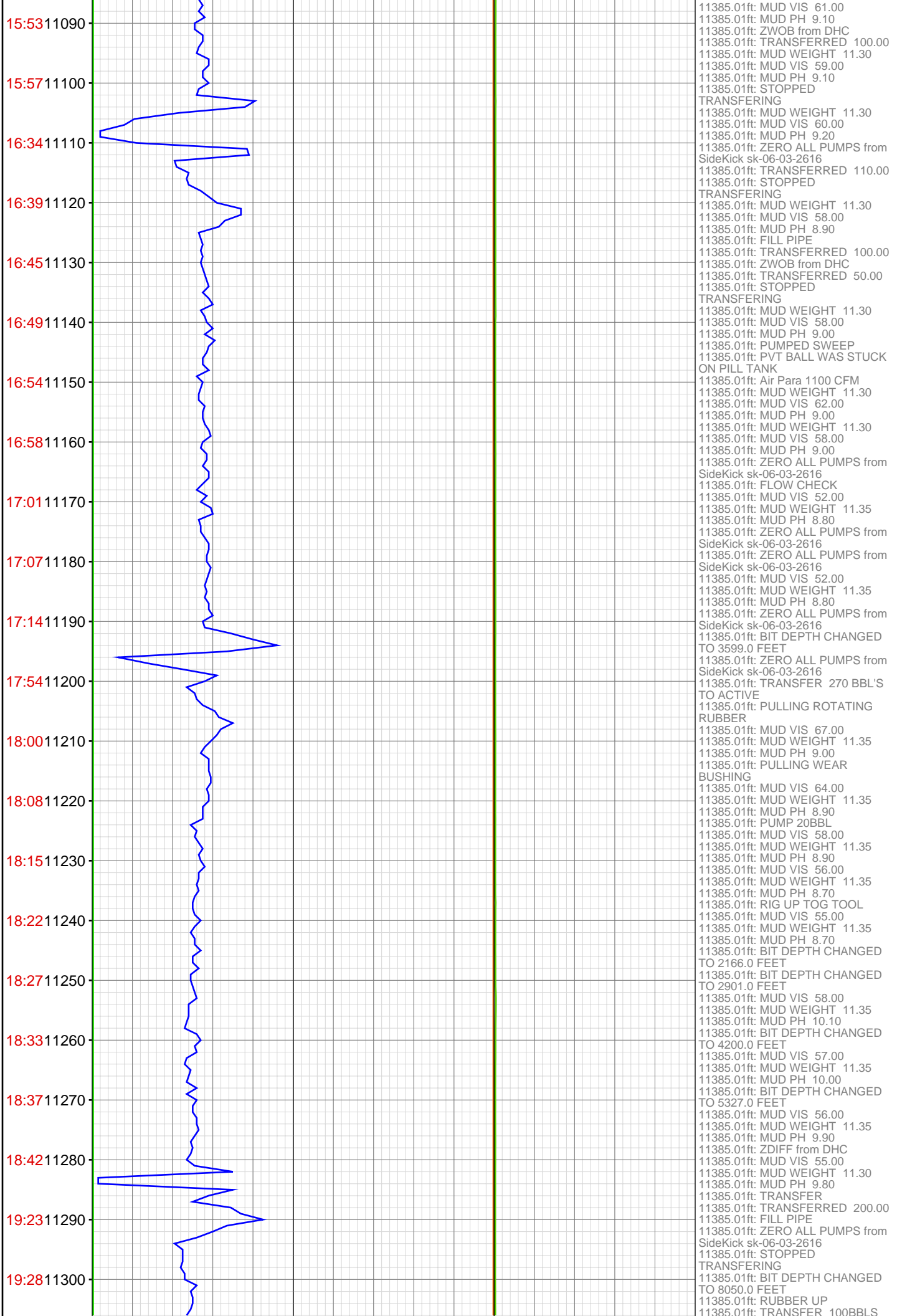




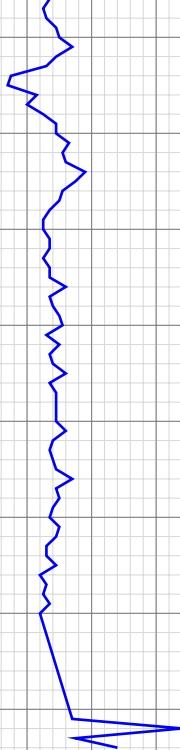








19:33 11310
19:38 11320
19:44 11330
19:50 11340
19:55 11350
20:05 11360
20:13 11370
20:35 11380
11390



11385.01ft: Air Para 900 CFM
11385.01ft: MUD VIS 55.00
11385.01ft: MUD WEIGHT 11.30
11385.01ft: MUD PH 9.60
11385.01ft: TRANSFER 100BBS
11385.01ft: Air Para 1200 CFM
11385.01ft: TRANSFER COMPLETE
11385.01ft: MUD VIS 52.00
11385.01ft: MUD WEIGHT 11.30
11385.01ft: MUD PH 9.30
11385.01ft: BIT DEPTH CHANGED
TO 10743.0 FEET
11385.01ft: BIT DEPTH CHANGED
TO 11003.0 FEET
11385.01ft: TRANSFER
11385.01ft: Air Para 1200 CFM
11385.01ft: MUD VIS 52.00
11385.01ft: MUD WEIGHT 11.35
11385.01ft: MUD PH 9.20
11385.01ft: Air Para 1200 CFM
11385.01ft: Wait for Another Cement
Pump Truck
11385.01ft: Wait on CMT Pump Truck
11385.01ft: PILL TANK PVT
MARKER STUCK
11385.01ft: MUD WEIGHT 11.40
11385.01ft: MUD VIS 45.00
11385.01ft: MUD PH 8.70
11385.01ft: Wait on CMT Pump Truck
11385.01ft: Air Para 1200 CFM
11385.01ft: Wait for Another CMT
Pump Truck
11385.01ft: Wait for Another CMT
Pump Truck
11385.01ft: Wait for Another CMT
Pump Truck
11385.01ft: Air Para 1200 CFM
11385.01ft: ZWOB from DHC
11385.01ft: rigging up replacement
pump truck
11385.01ft: 1200 CFM PARA
11385.01ft: HSM Cement 4.5"
Casing
11385.01ft: 900 CFM PARA
11385.01ft: 1200 CFM PARA
11385.01ft: 1800 CFM PARA
11385.01ft: 1200 CFM PARA
11385.01ft: 900 CFM PARA