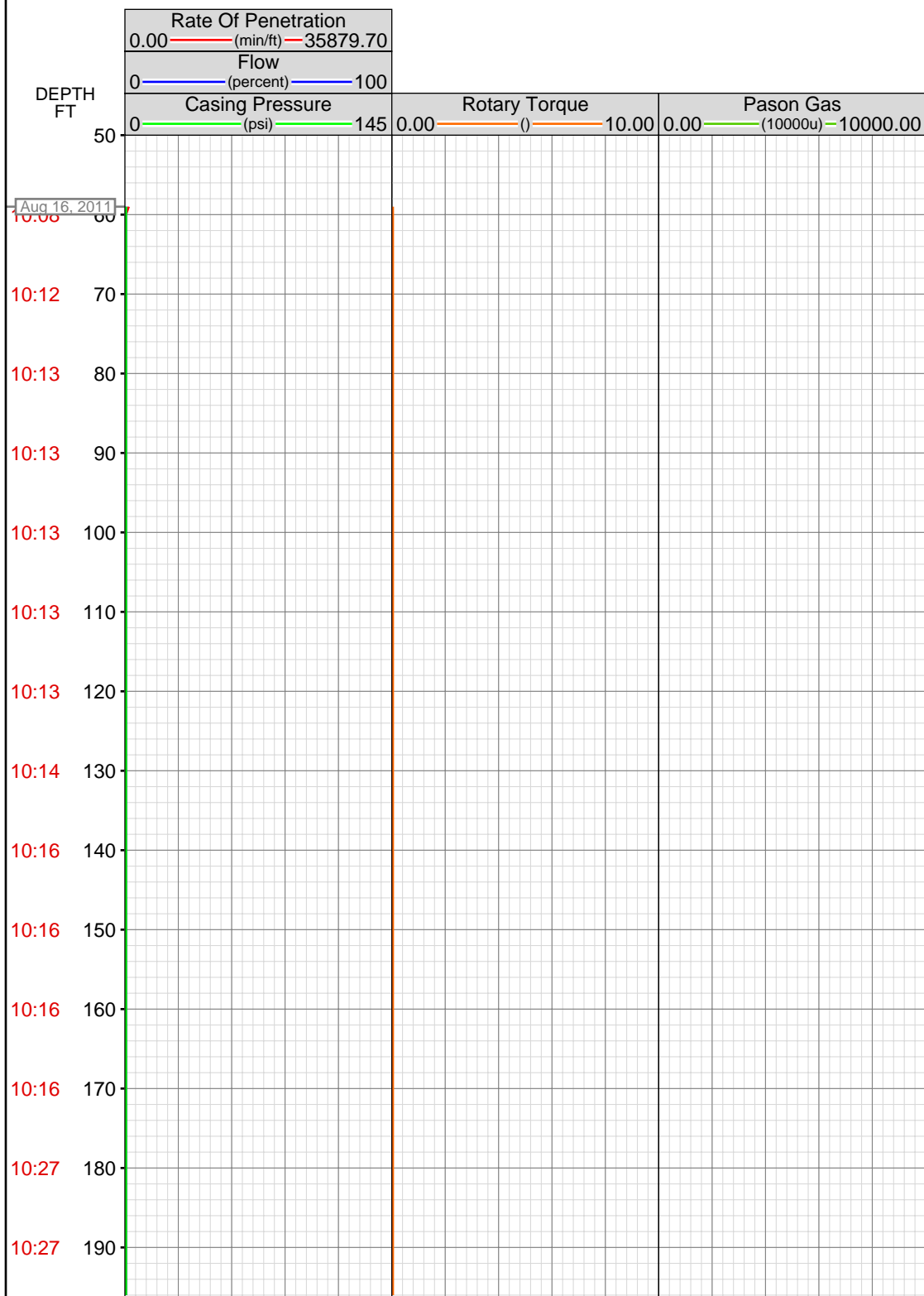


DataHub EDR Log

Tue Aug 23, 2011 10:08:24
Well Dossier 1313184885
Marilyn Tucker

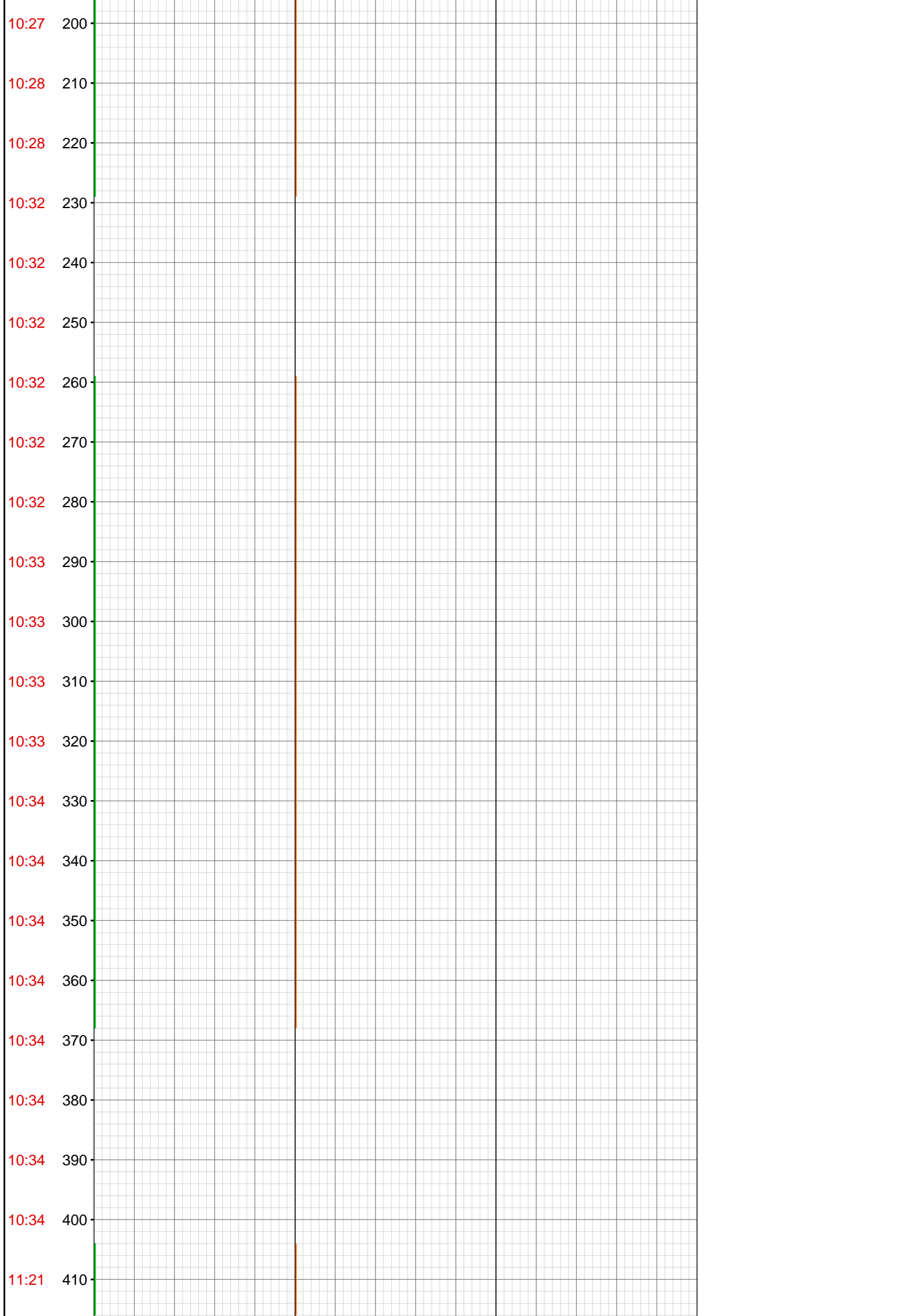
OPERATOR: EnCana Oil & Gas (USA), Inc.
WELL: DOUBLE WILLOW 8608A-33 P28 496
FIELD:
LOCATION: Sec. 36 T4S R96W
COUNTRY: USA
RIG: Pat-UTI 308

CONTRACTOR: Patterson-UTI Drilling Company
UNIQUE WELL ID: 050452043600
SPUD DATE: Aug 16, 2011 23:00
RELEASE DATE:



MEMOS

58.00ft: 008TGAS-Check dryer cable
(rig air)
58.00ft: 008TGAS-Check dryer cable
(rig air)



11:22 420-

14:51 430-

14:51 440-

14:55 450-

14:55 460-

14:55 470-

14:55 480-

14:55 490-

14:55 500-

14:58 510-

14:58 520-

14:58 530-

15:00 540-

15:00 550-

15:04 560-

15:04 570-

15:08 580-

15:08 590-

15:08 600-

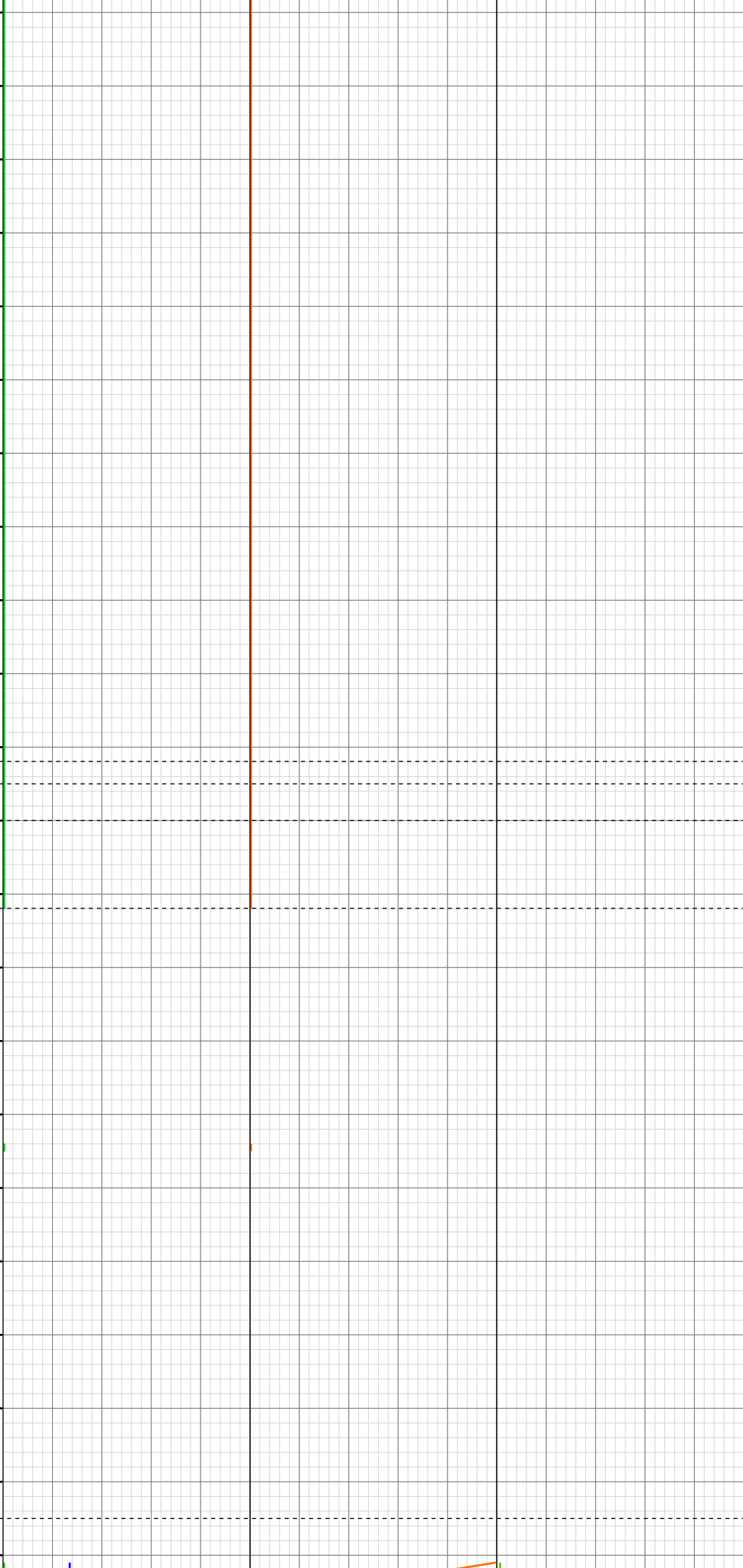
15:08 610-

15:09 620-

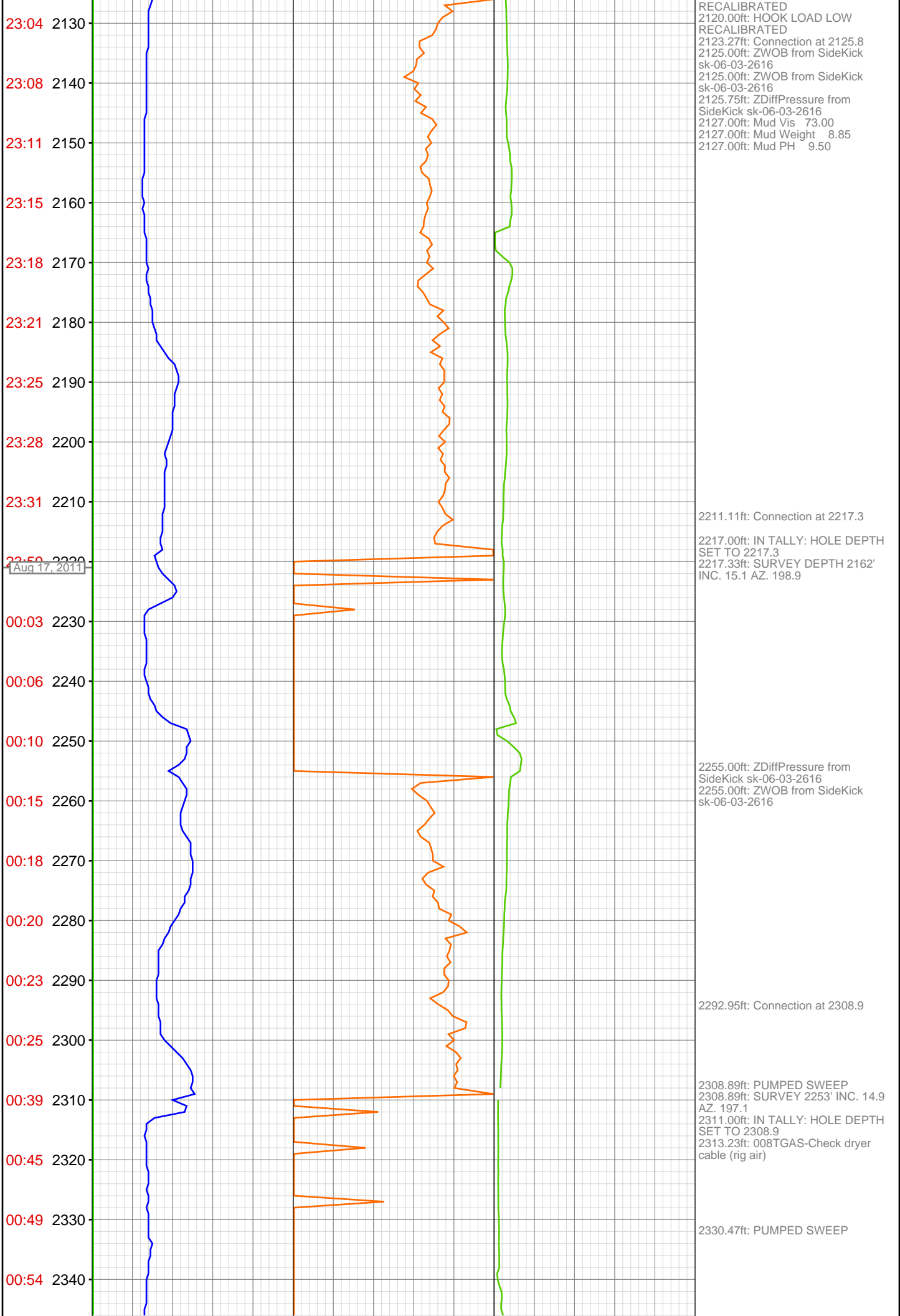
15:10 630-

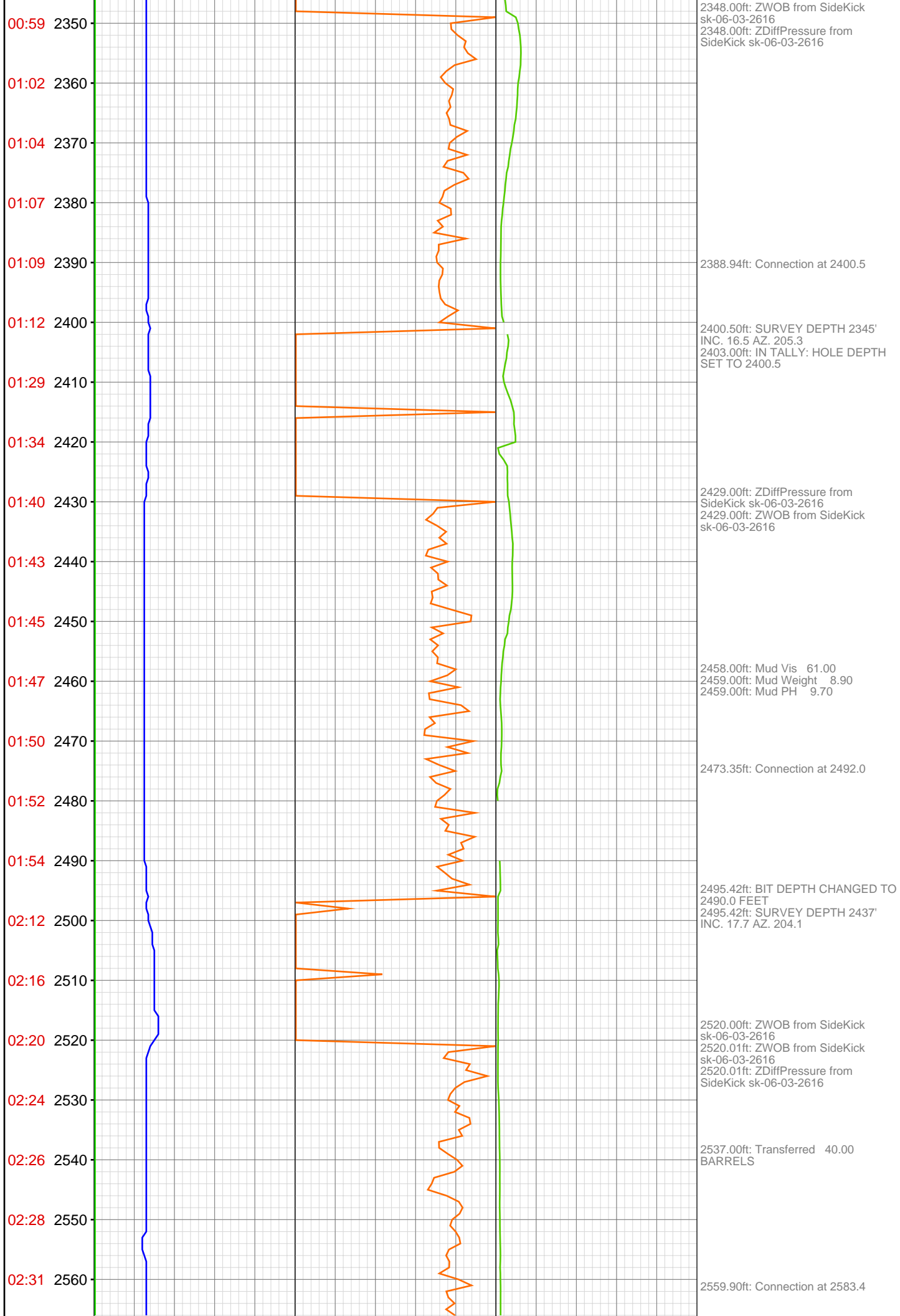
421.00ft: 008TGAS-Check dryer cable
(rig air)

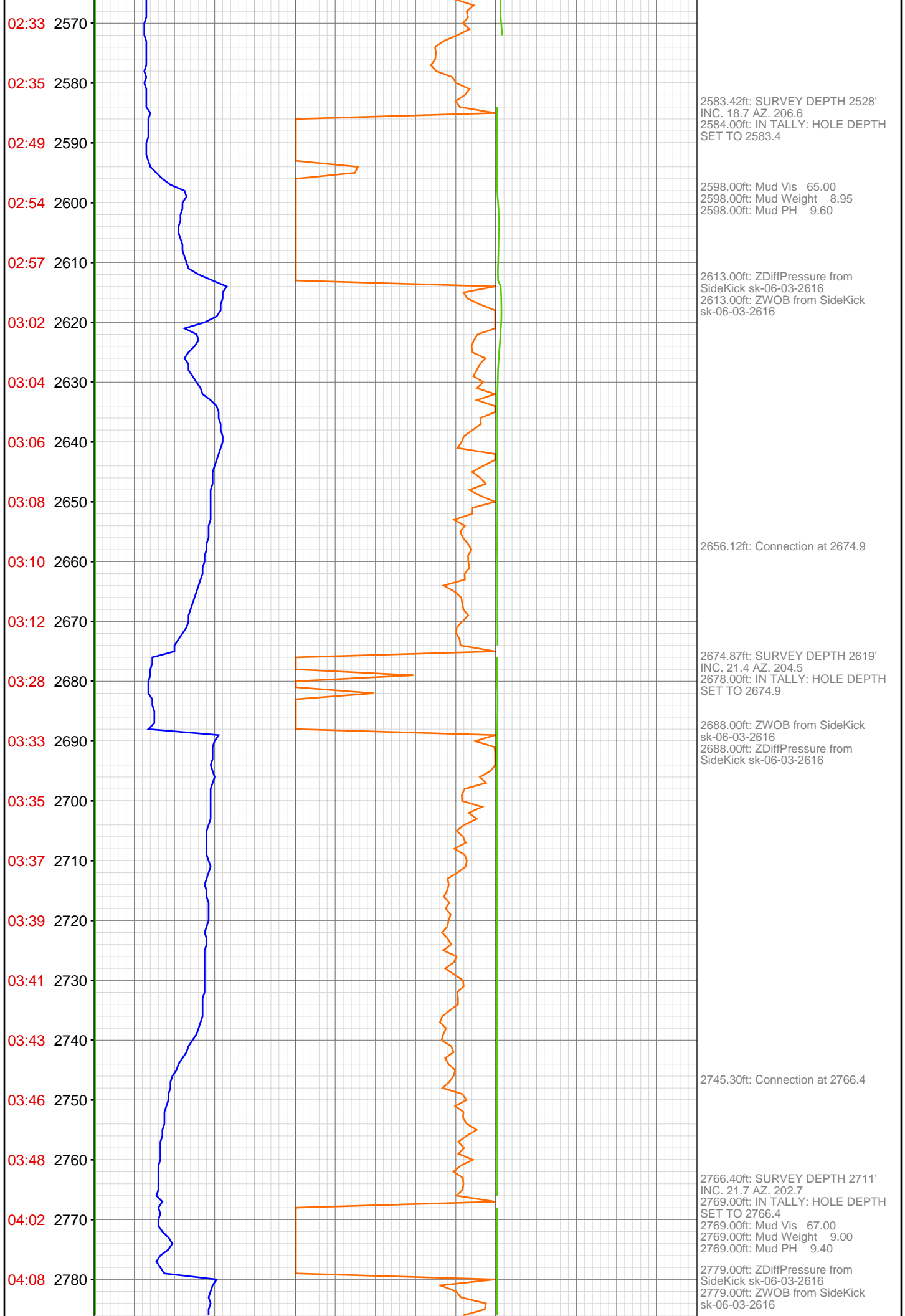
15:17 640
15:17 650
15:17 660
15:17 670
15:18 680
15:42 690
15:43 700
15:43 710
15:44 720
15:44 730
15:44 740
15:45 850
15:49 910
15:50 1030
15:50 1040
15:50 1050
22:53 1060
22:53 1070
22:53 1080
22:53 1090
22:53 1100
22:53 2120



1093.00ft: BIT DEPTH CHANGED TO 0.0 FEET
1093.00ft: HOLE DEPTH CHANGED TO 2120.0 FEET
1093.00ft: HOOK LOAD THRESHOLD RECALIBRATED TO 53
1093.00ft: HOOKLOAD WAS RECALIBRATED
1093.00ft: PVT Horn Disabled
1093.00ft: Mud Vis 71.00
1093.00ft: HOOK LOAD THRESHOLD RECALIBRATED TO 47
1093.00ft: HOOK LOAD THRESHOLD RECALIBRATED TO 53
1093.00ft: PVT Horn Enabled
1093.00ft: HOOKLOAD WAS RECALIBRATED
1093.00ft: HOOK LOAD THRESHOLD RECALIBRATED TO 50
1093.00ft: 021TGAS 05121549 SW0.30 HW30.00 - 15 days on
1093.00ft: 008TGAS-Check dryer cable (rig air)
1093.00ft: HOOKLOAD WAS RECALIBRATED
1093.00ft: HOOK LOAD HIGH RECALIBRATED
1093.00ft: BIT DEPTH CHANGED TO 2034.3 FEET
2120.00ft: HOOKLOAD WAS







04:10 2790
04:12 2800
04:15 2810
04:17 2820
04:19 2830
04:21 2840
04:23 2850
04:35 2860
04:37 2870
04:39 2880
04:41 2890
04:42 2900
04:44 2910
04:46 2920
04:48 2930
04:50 2940
05:03 2950
05:05 2960
05:07 2970
05:08 2980
05:10 2990
05:12 3000



2788.01ft: PUMPED SWEEP

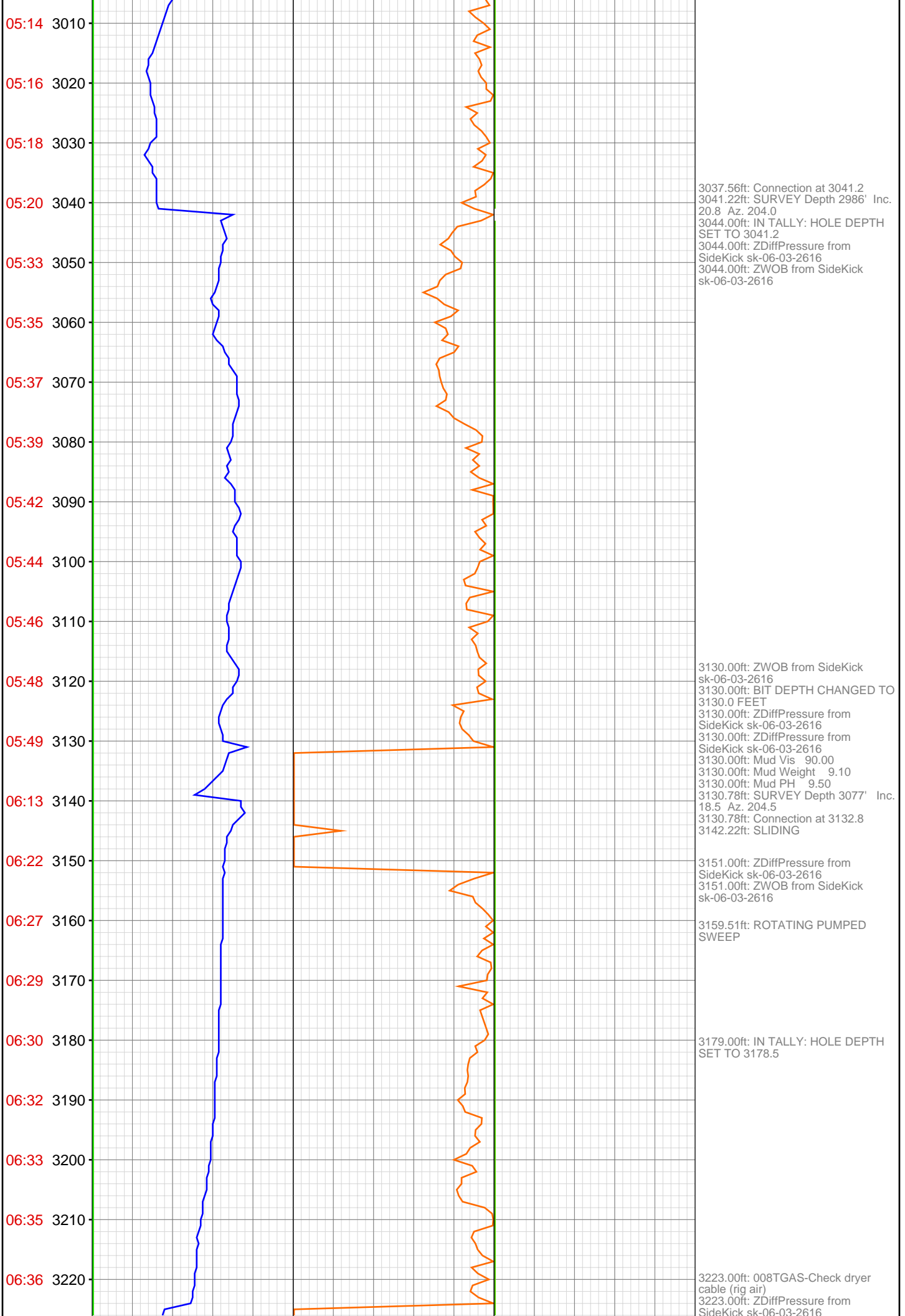
2833.82ft: Connection at 2858.0

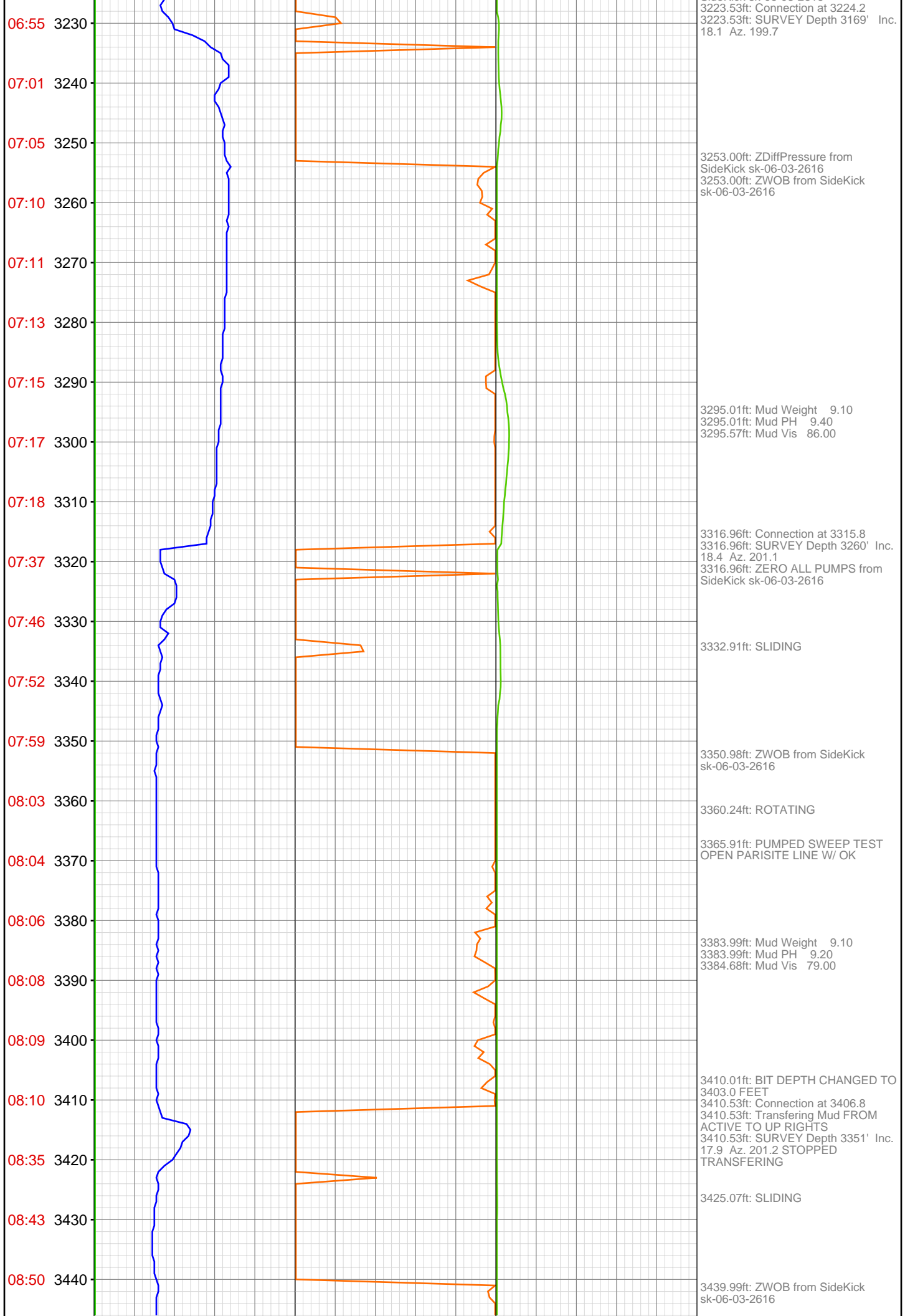
2858.00ft: IN TALLY: HOLE DEPTH
SET TO 2858.0
2858.00ft: ZWOB from SideKick
sk-06-03-2616
2858.00ft: ZDiffPressure from
SideKick sk-06-03-2616
2858.18ft: SURVEY DEPTH 2803'
INC. 22.3 AZ. 206.5

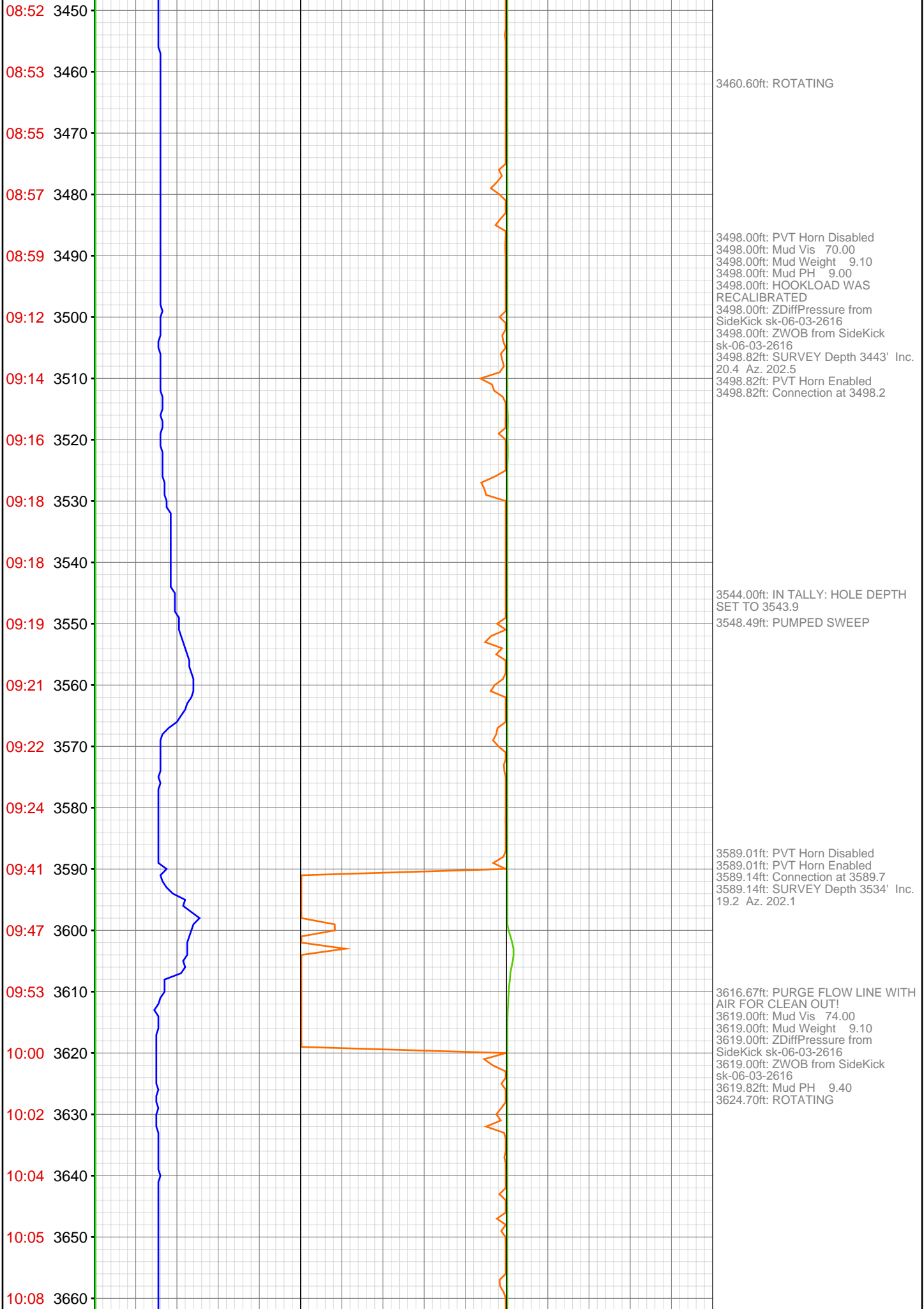
2930.00ft: Transferred 50.00
BARRELS

2947.47ft: Connection at 2949.5
2949.52ft: SURVEY DEPTH 2894'
INC. 21.8 AZ. 205.7
2952.00ft: IN TALLY: HOLE DEPTH
SET TO 2949.5
2952.00ft: Mud Vis 77.00
2952.00ft: Mud Weight 9.05
2953.46ft: Mud PH 9.10

2965.03ft: PUMPED SWEEP







10:10 3670
10:12 3680
10:24 3690
10:25 3700
10:27 3710
10:29 3720
10:31 3730
10:32 3740
10:34 3750
10:35 3760
10:37 3770
10:58 3780
11:04 3790
11:09 3800
11:11 3810
11:13 3820
11:15 3830
11:17 3840
11:19 3850
11:21 3860
11:34 3870
11:35 3880

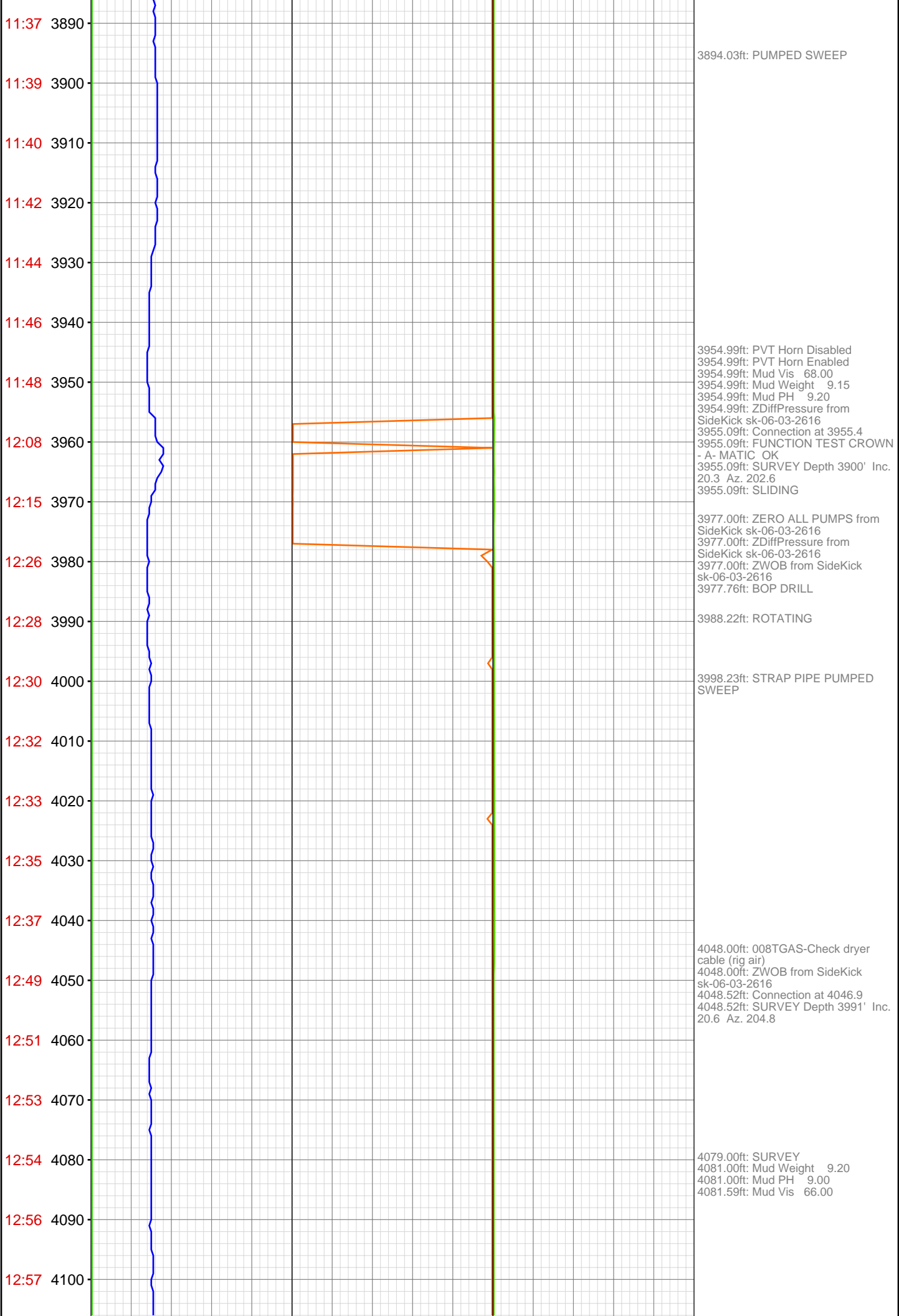
3681.00ft: PVT Horn Disabled
3681.00ft: ZWOB from SideKick
sk-06-03-2616
3681.00ft: ZDiffPressure from
SideKick sk-06-03-2616
3681.59ft: Connection at 3681.1
21.4 Az. 203.6
3689.01ft: PVT Horn Enabled

3773.00ft: ZERO ALL PUMPS from
SideKick sk-06-03-2616
3773.00ft: ZDiffPressure from
SideKick sk-06-03-2616
3773.00ft: ZDiffPressure from
SideKick sk-06-03-2616
3773.00ft: Mud Vis 68.00
3773.00ft: Mud Weight 9.10
3773.98ft: Connection at 3772.6
3773.98ft: SURVEY Depth 3717' Inc.
20.5 Az. 203.5
3773.98ft: Mud PH 9.00

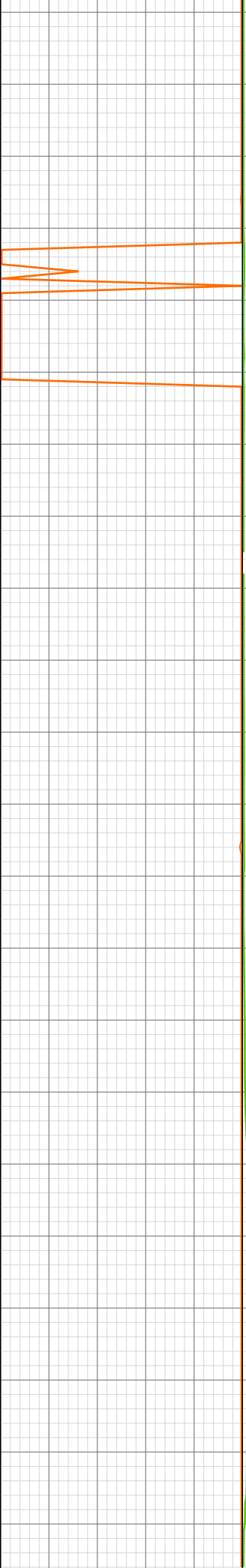
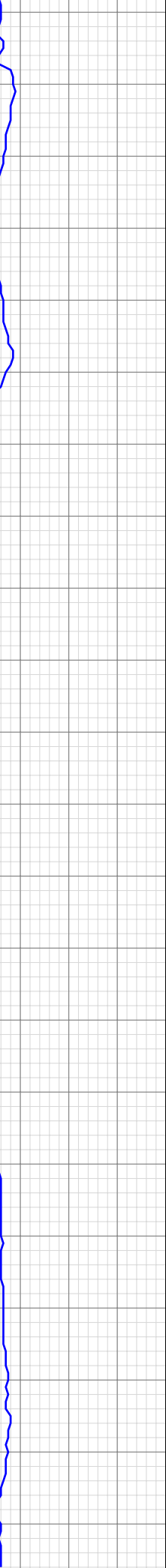
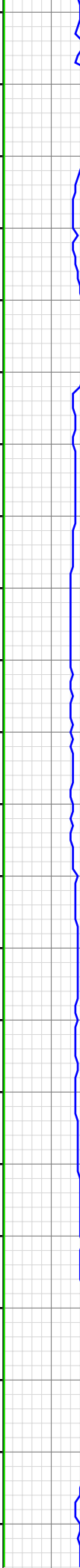
3797.01ft: ZDiffPressure from
SideKick sk-06-03-2616
3797.01ft: ZWOB from SideKick
sk-06-03-2616

3819.00ft: IN TALLY: HOLE DEPTH
SET TO 3818.4

3862.01ft: PVT Horn Disabled
3862.01ft: PVT Horn Enabled
3862.01ft: ZWOB from SideKick
sk-06-03-2616
3862.70ft: Connection at 3864.1
3862.70ft: SURVEY Depth 3809' Inc.
22.2 Az. 202.2



12:59 4110
13:01 4120
13:02 4130
13:20 4140
13:27 4150
13:31 4160
13:34 4170
13:36 4180
13:39 4190
13:40 4200
13:42 4210
13:44 4220
13:55 4230
13:57 4240
13:59 4250
14:00 4260
14:02 4270
14:04 4280
14:06 4290
14:08 4300
14:10 4310
14:24 4320



4140.35ft: Connection at 4138.3
4140.35ft: SLIDING
4140.35ft: SURVEY Depth 4083' Inc.
18.9 Az. 205.6

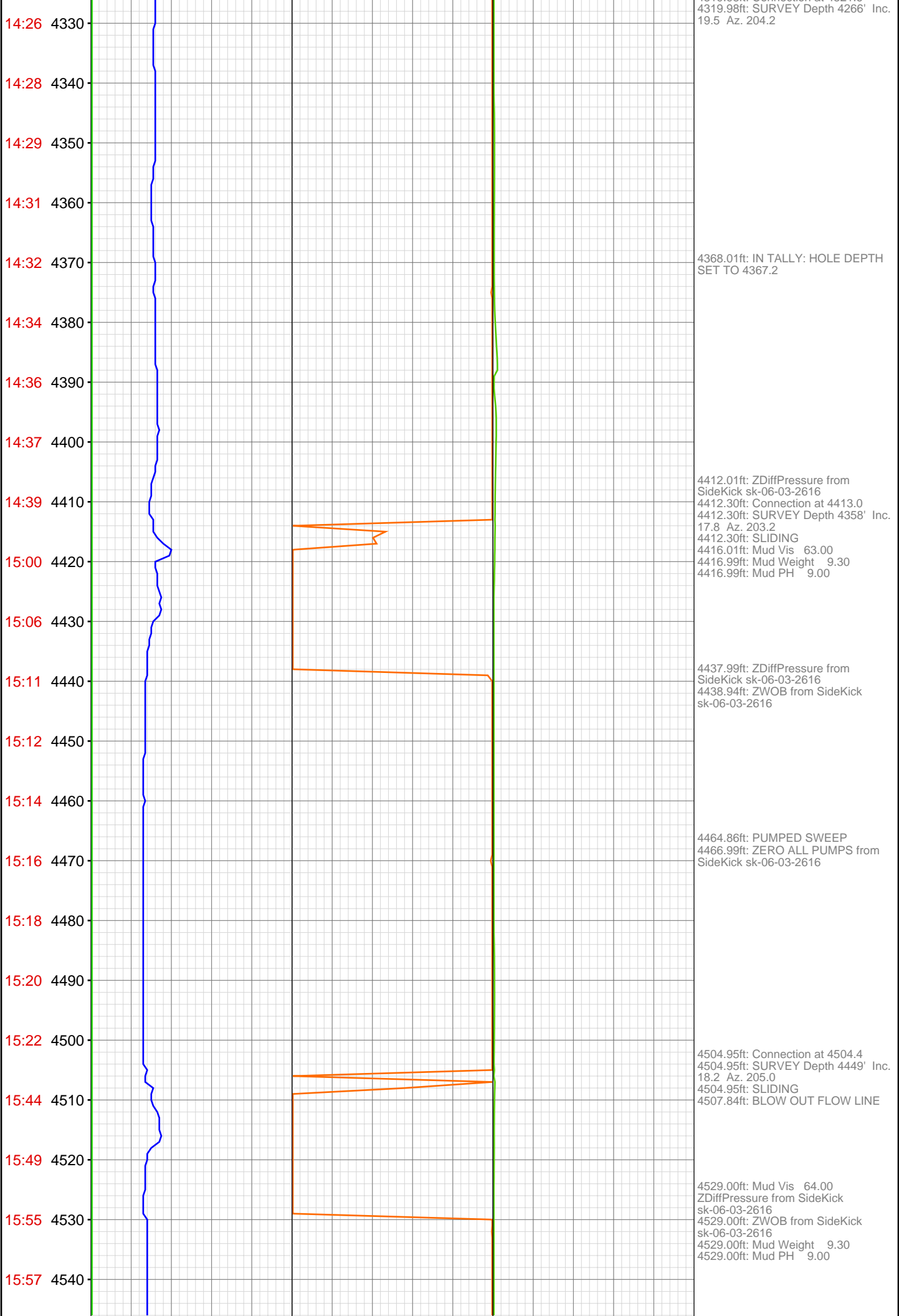
4160.99ft: ZDiffPressure from
SideKick sk-06-03-2616
4160.99ft: ZWOB from SideKick
sk-06-03-2616
4161.61ft: Transferring Mud FROM
ACTIVE TO UP RIGHT TANKS

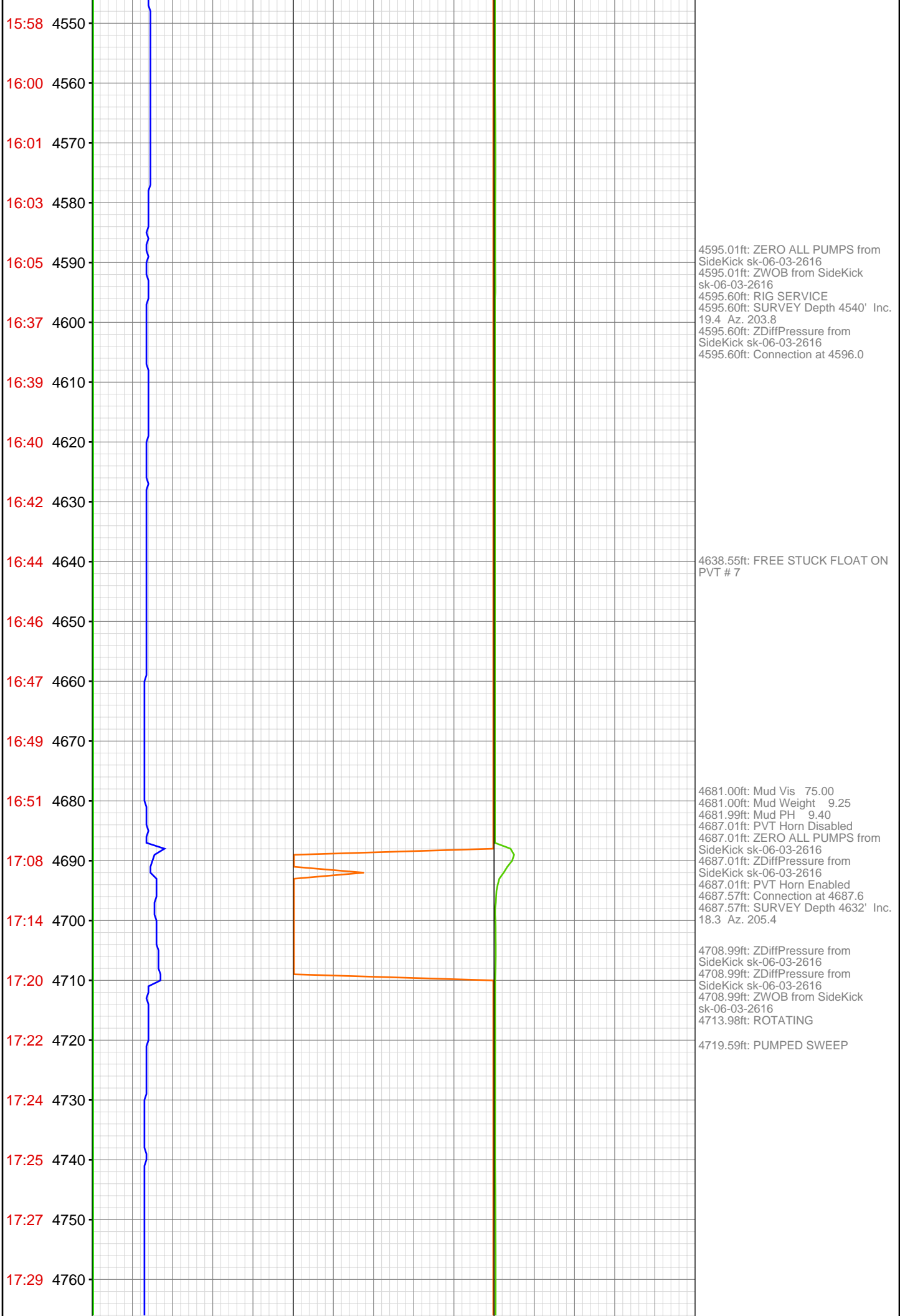
4187.01ft: IN TALLY: HOLE DEPTH
SET TO 4184.1

4229.00ft: Mud Vis 68.00
4229.00ft: Mud Weight 9.30
4229.00ft: Mud PH 9.20
4229.00ft: ZWOB from SideKick
sk-06-03-2616
4229.07ft: Connection at 4229.9
4229.07ft: ZDiffPressure from
SideKick sk-06-03-2616
4229.07ft: SURVEY Depth 4174' Inc.
20.4 Az. 203.7

4287.86ft: STOPPED TRANSFERING
PUMPED SWEEP

4319.00ft: ZWOB from SideKick
sk-06-03-2616
4319.00ft: ZDiffPressure from
SideKick sk-06-03-2616
4319.00ft: ZWOB from SideKick
sk-06-03-2616
4319.98ft: Connection at 4321.6





17:31 4770

17:44 4780

17:46 4790

17:48 4800

17:50 4810

17:52 4820

17:54 4830

17:56 4840

17:57 4850

17:59 4860

18:01 4870

18:19 4880

18:24 4890

18:28 4900

18:30 4910

18:31 4920

18:33 4930

18:35 4940

18:37 4950

18:39 4960

18:51 4970

18:53 4980

4779.99ft: ZDiffPressure from
SideKick sk-06-03-2616
4780.32ft: Connection at 4779.4
4780.32ft: SURVEY DEPTH 4724'
INC. 19.2 AZ. 204.8
4780.32ft: ZWOB from SideKick
sk-06-03-2616

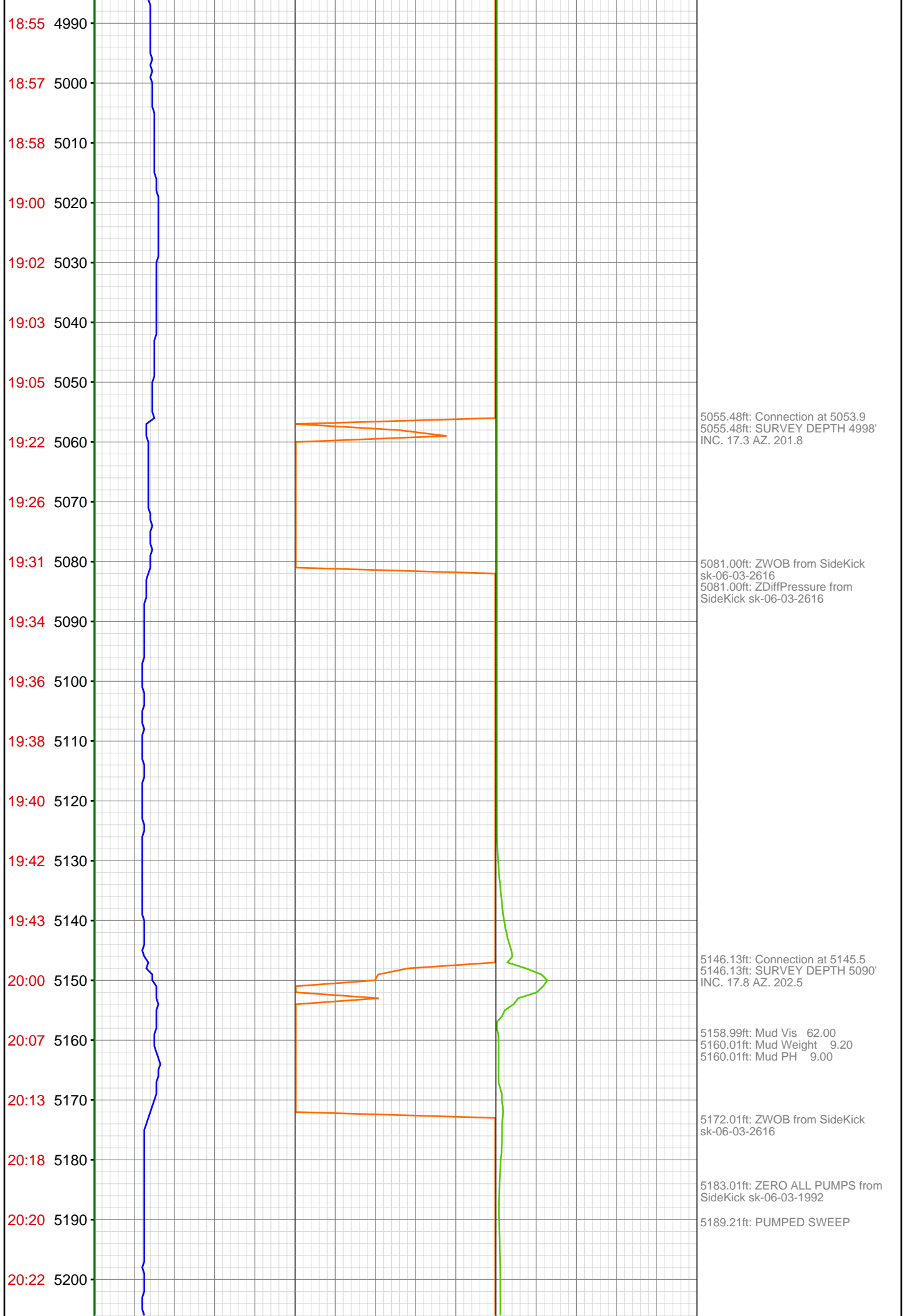
4848.00ft: Mud Vis 60.00
4848.00ft: Mud Weight 9.20
4849.02ft: Mud PH 8.80

4870.01ft: IN TALLY: HOLE DEPTH
SET TO 4871.0
4870.01ft: HOOK LOAD HIGH
RECALIBRATED
4870.96ft: SURVEY DEPTH 4815'
INC. 18.2 AZ. 205.8
4870.96ft: Connection at 4870.9

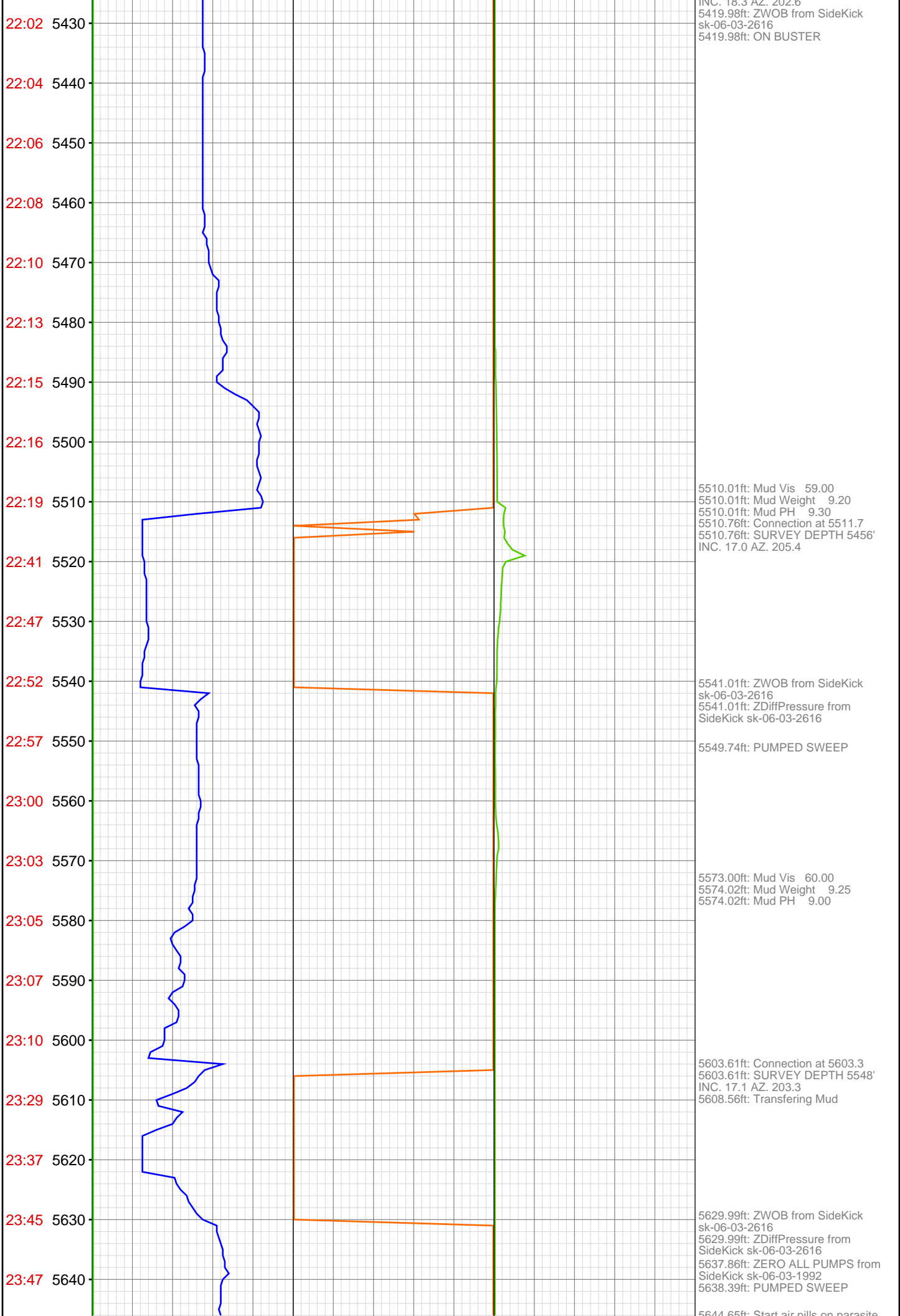
4895.01ft: ZWOB from SideKick
sk-06-03-2616
4895.01ft: ZDiffPressure from
SideKick sk-06-03-2616
4895.31ft: PUMPED SWEEP

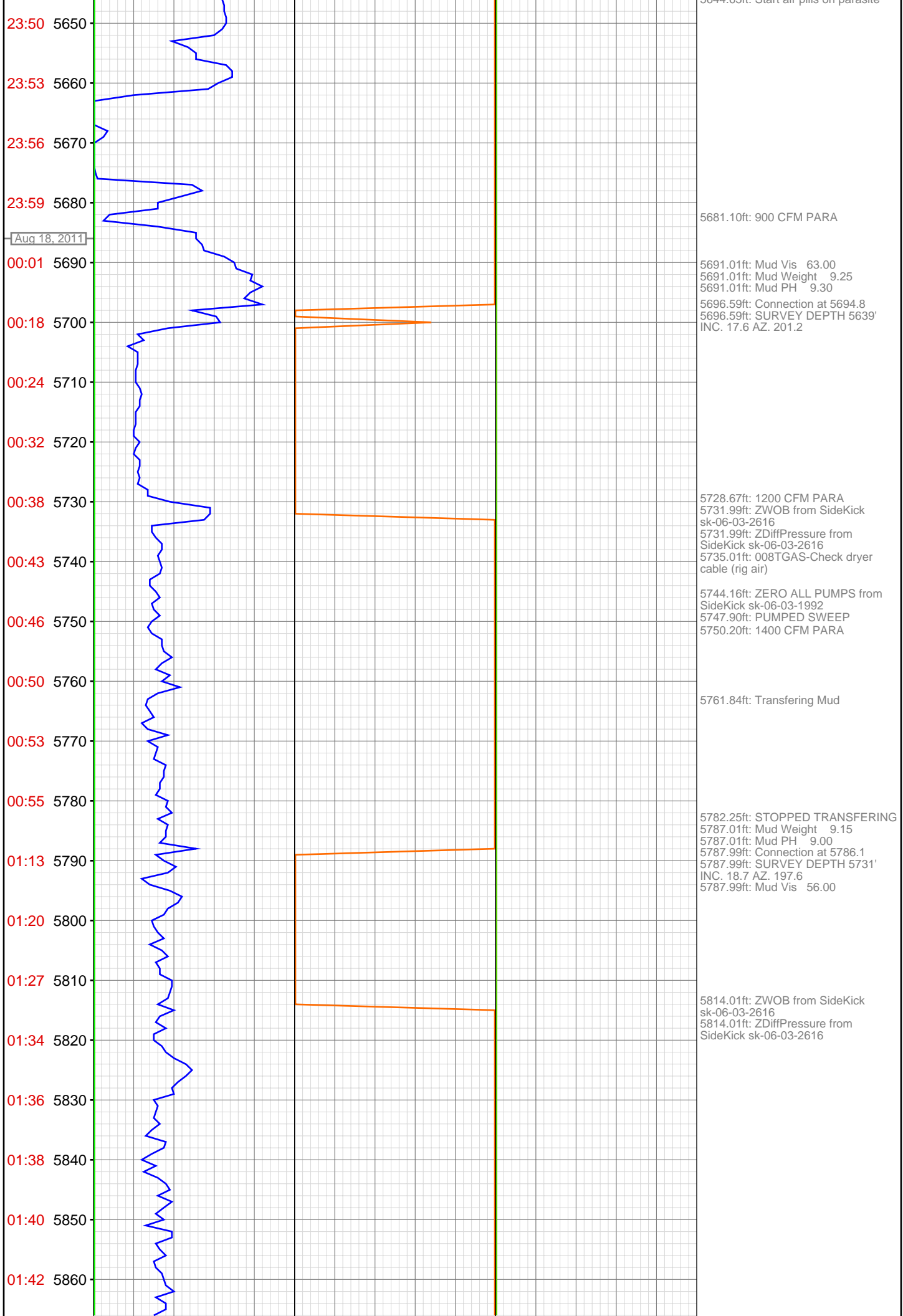
4910.01ft: ZERO ALL PUMPS from
SideKick sk-06-03-1992

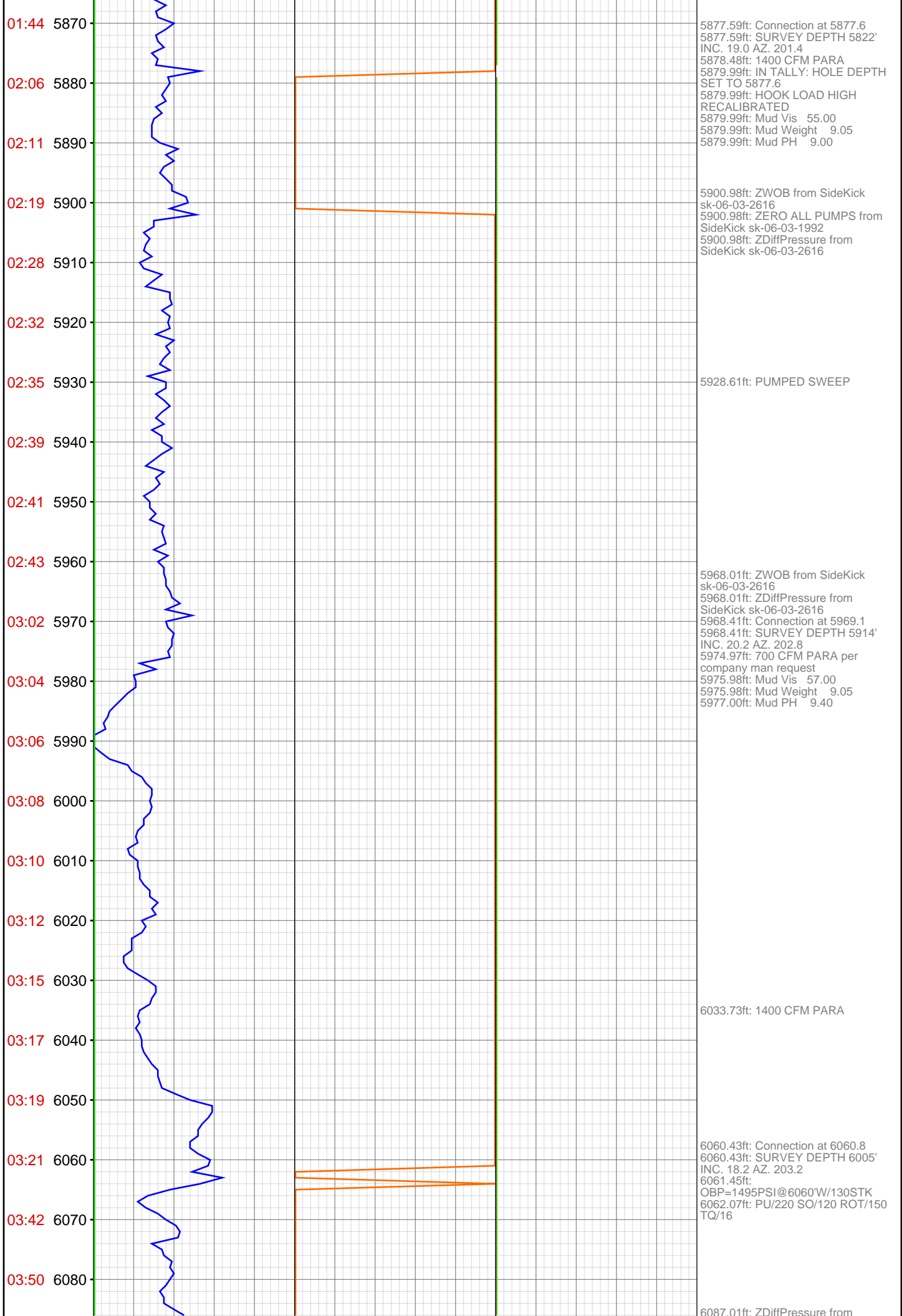
4962.01ft: 021TGAS 05121549
SW0.30 HW30.00 - 16 days on
4962.01ft: 008TGAS-Check dryer
cable (rig air)
4962.66ft: Connection at 4962.6
4962.66ft: SURVEY DEPTH 4907'
INC. 18.7 AZ. 201.5

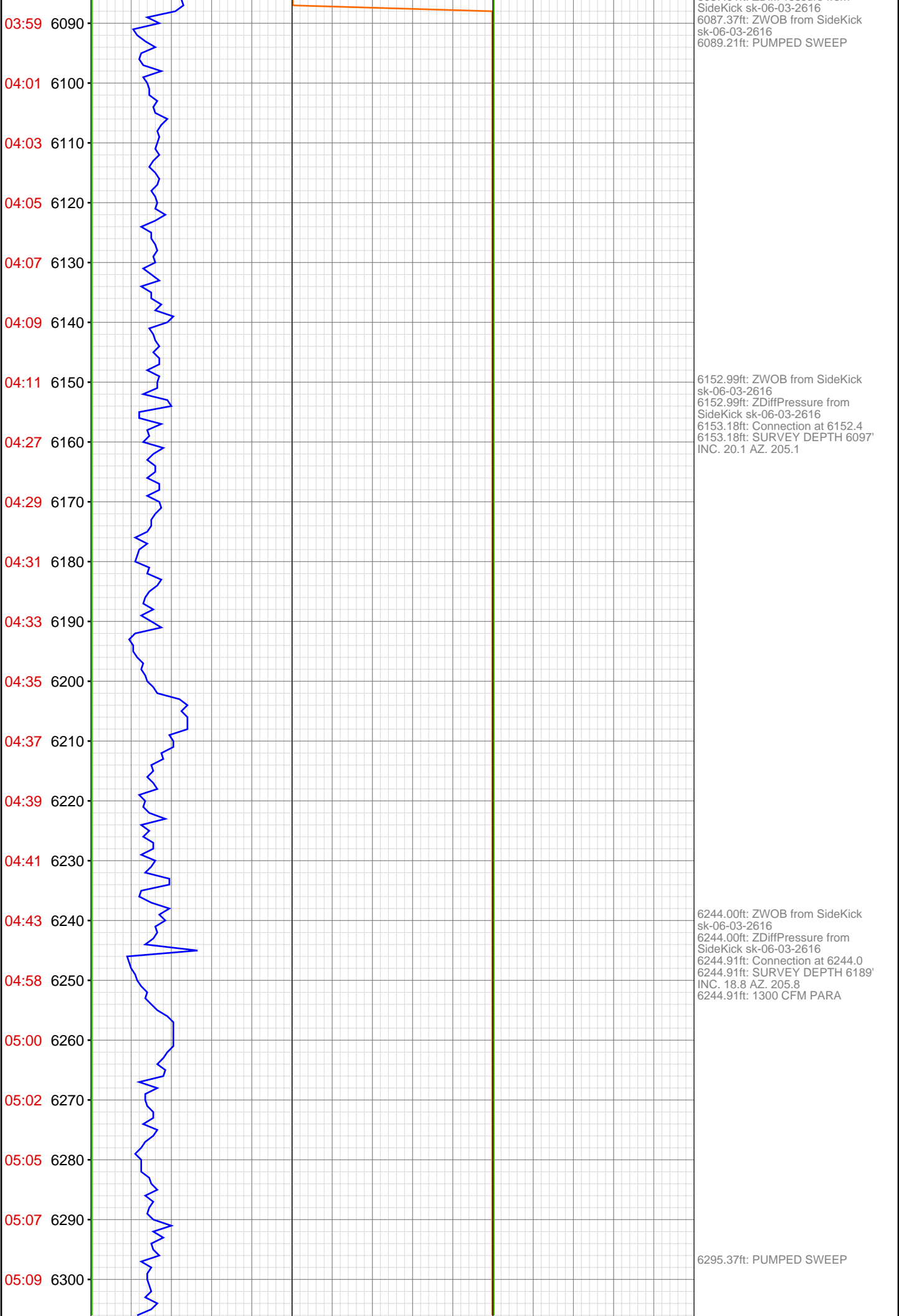


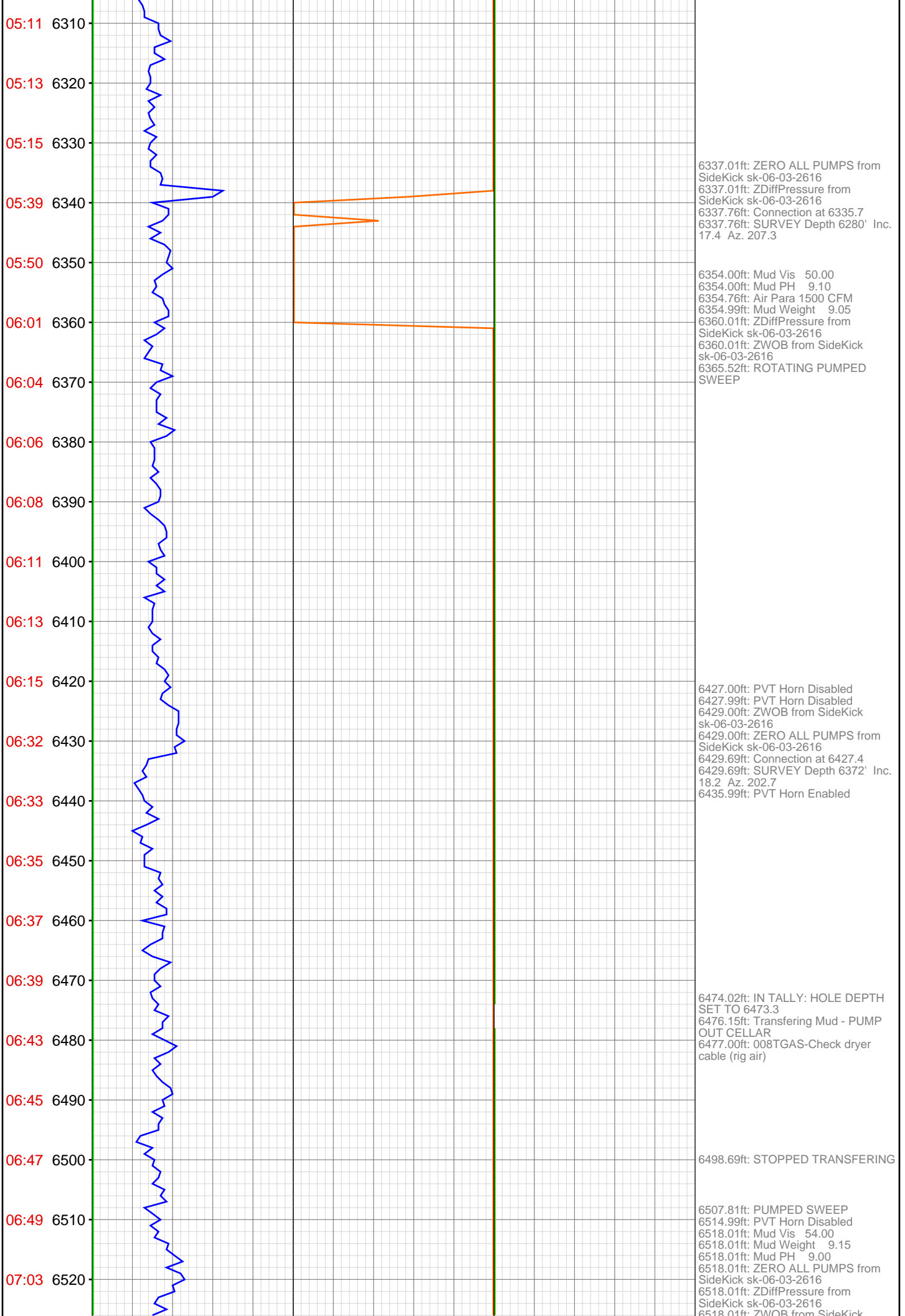


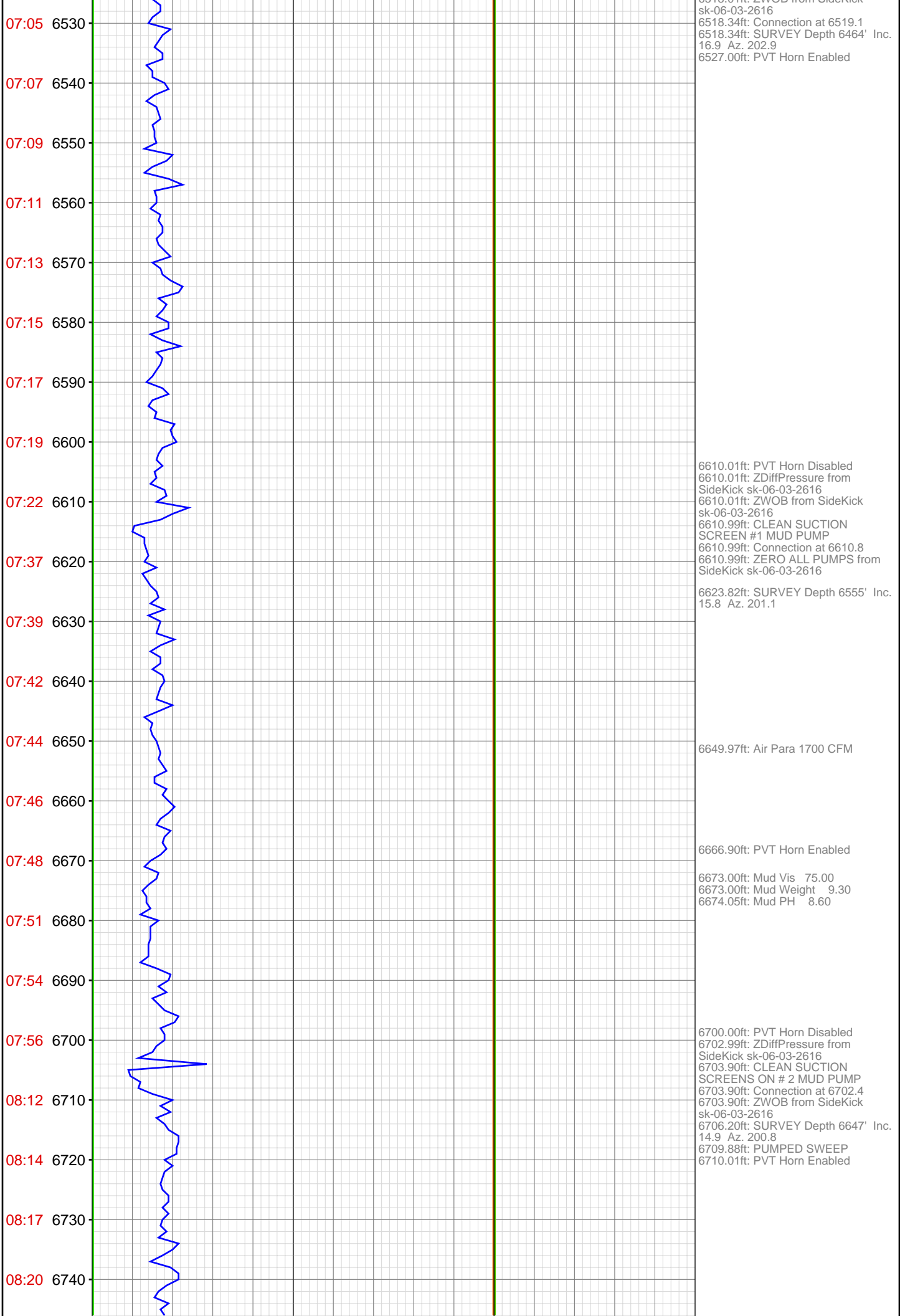


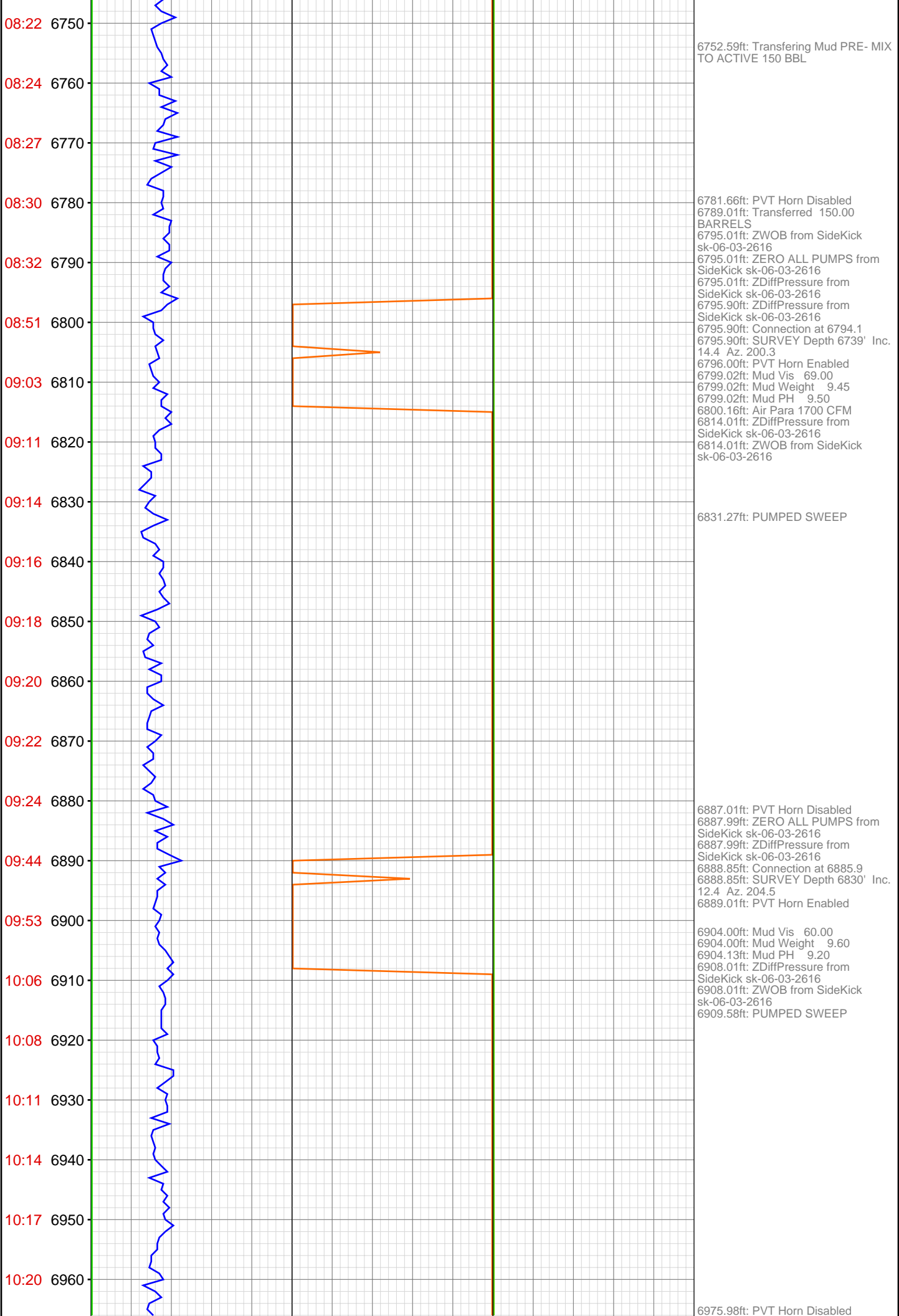


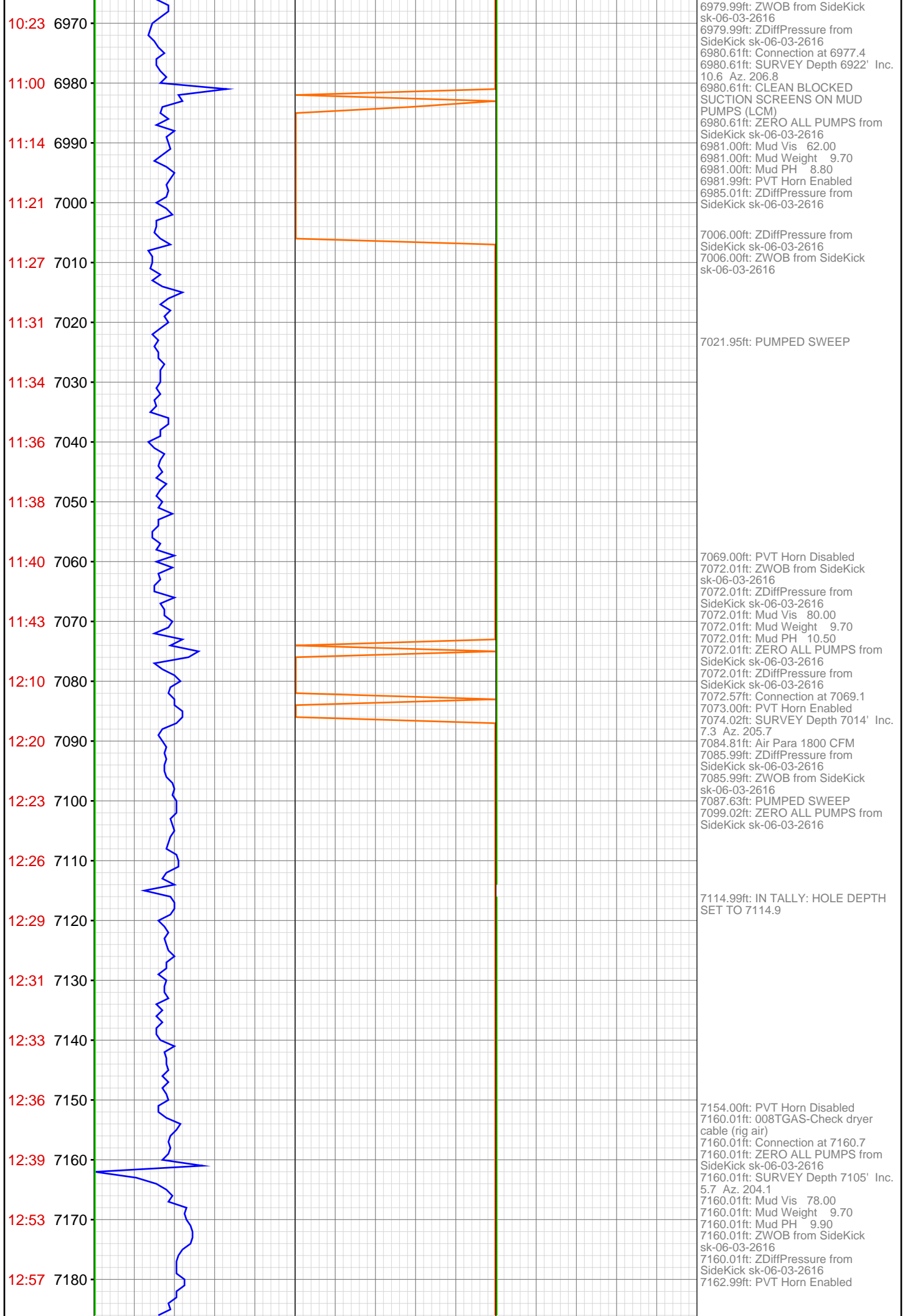


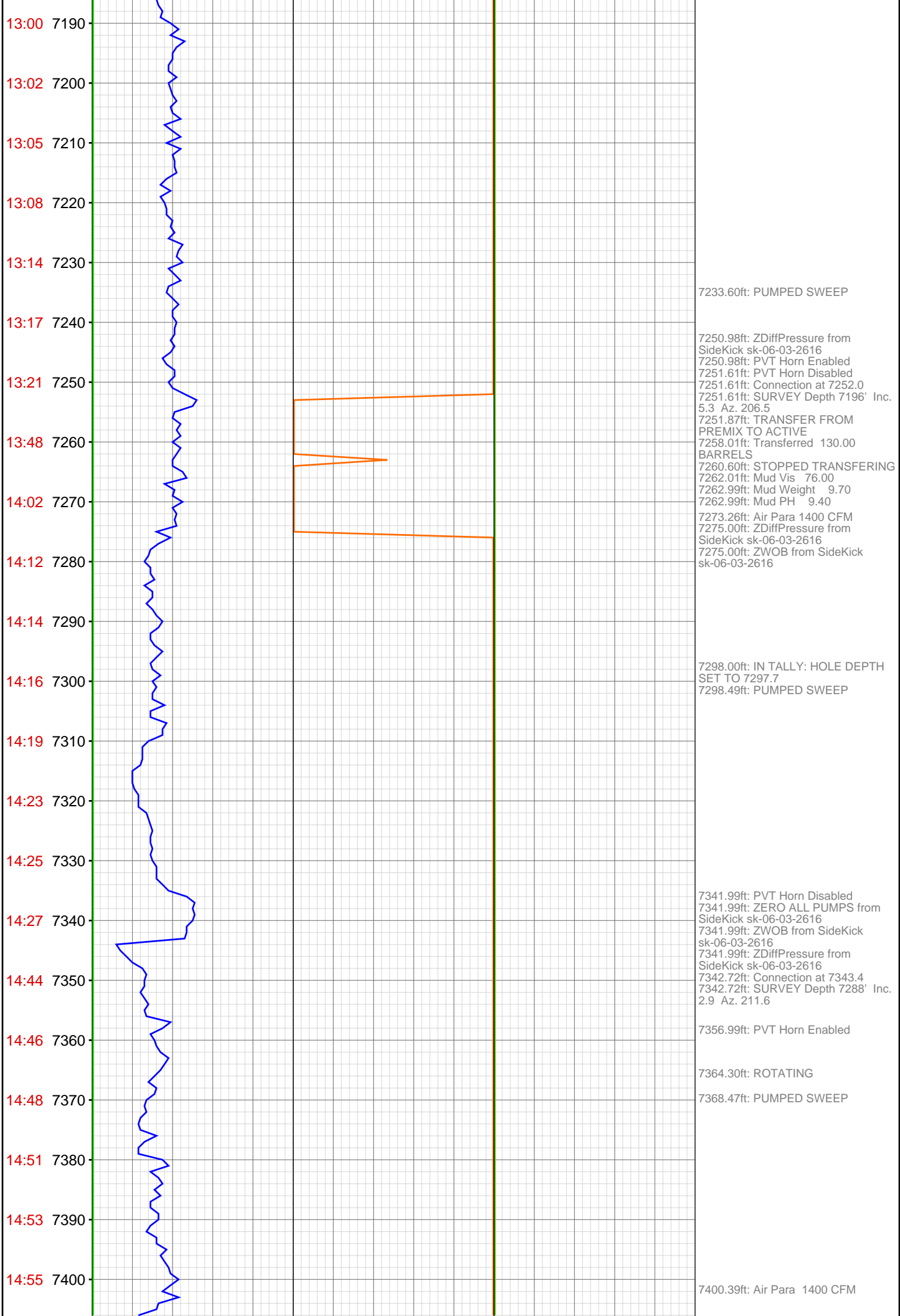


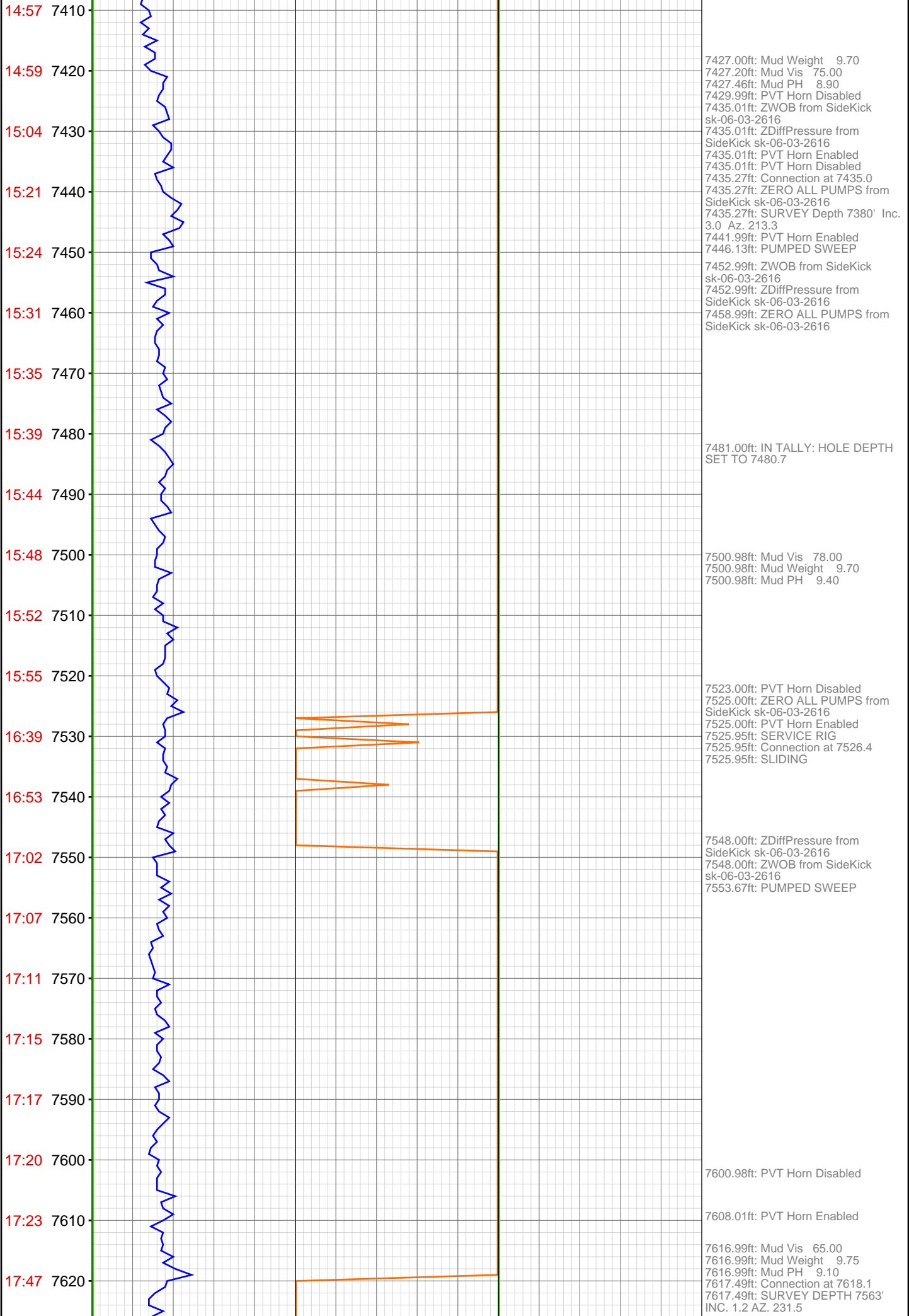


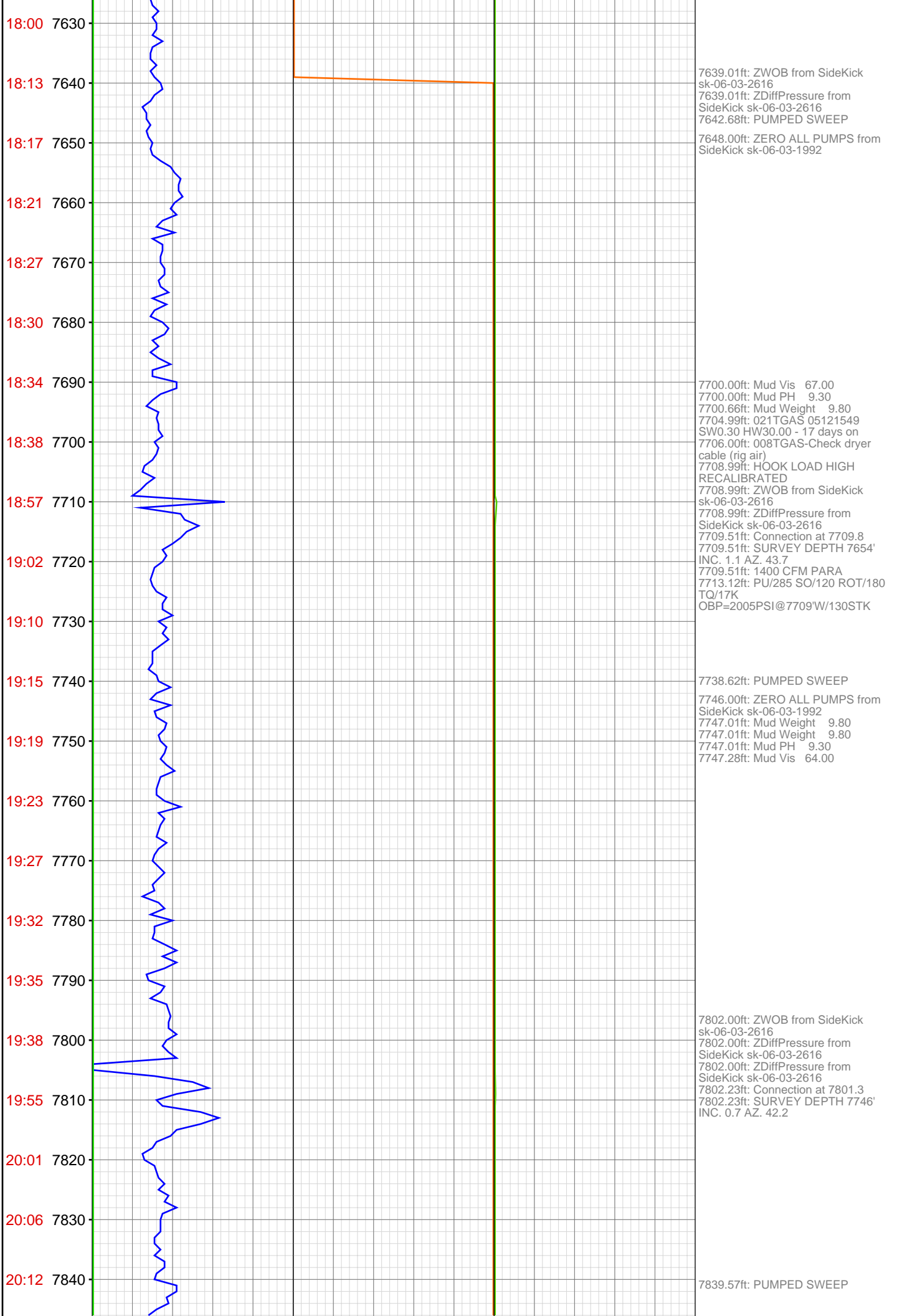


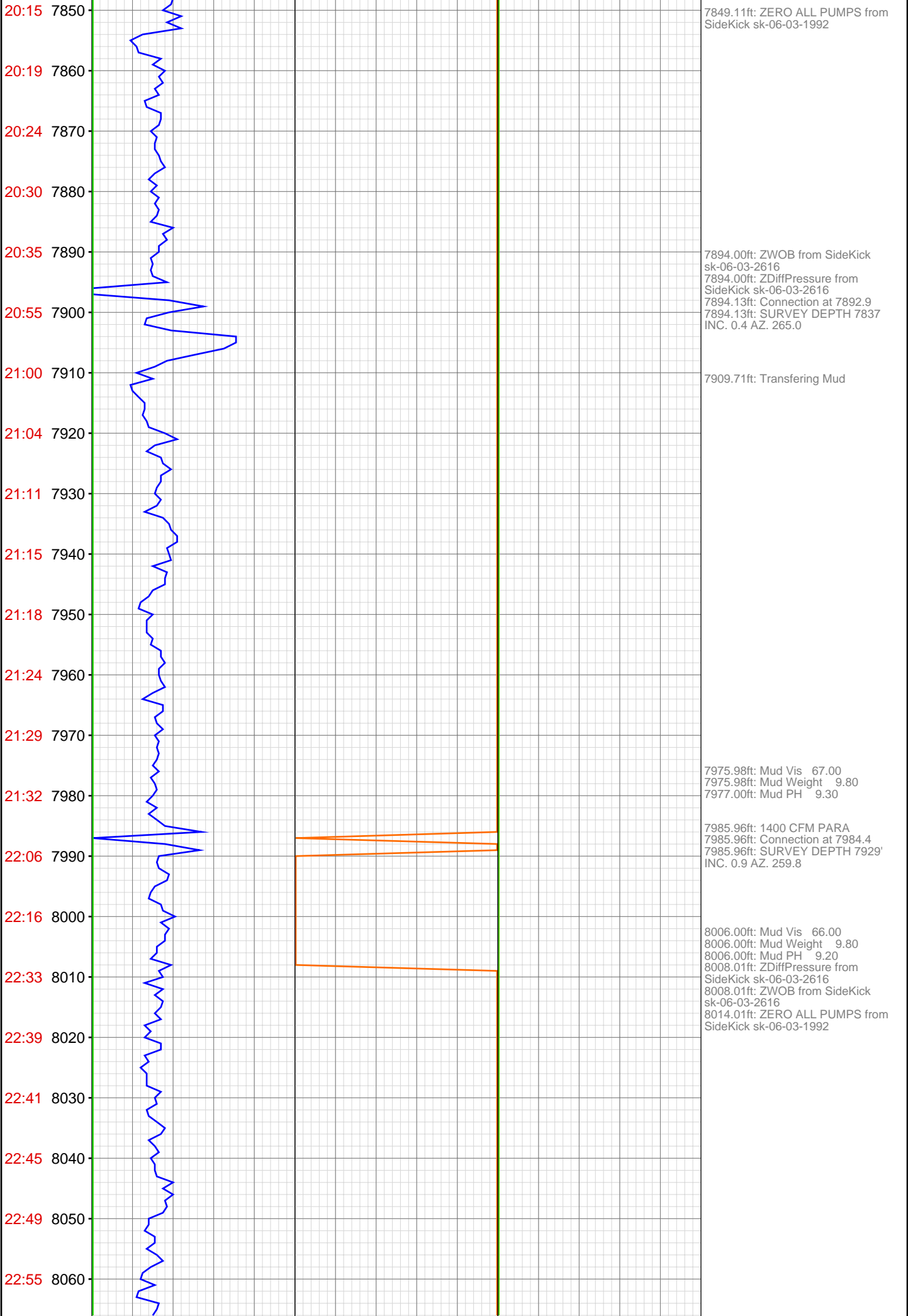


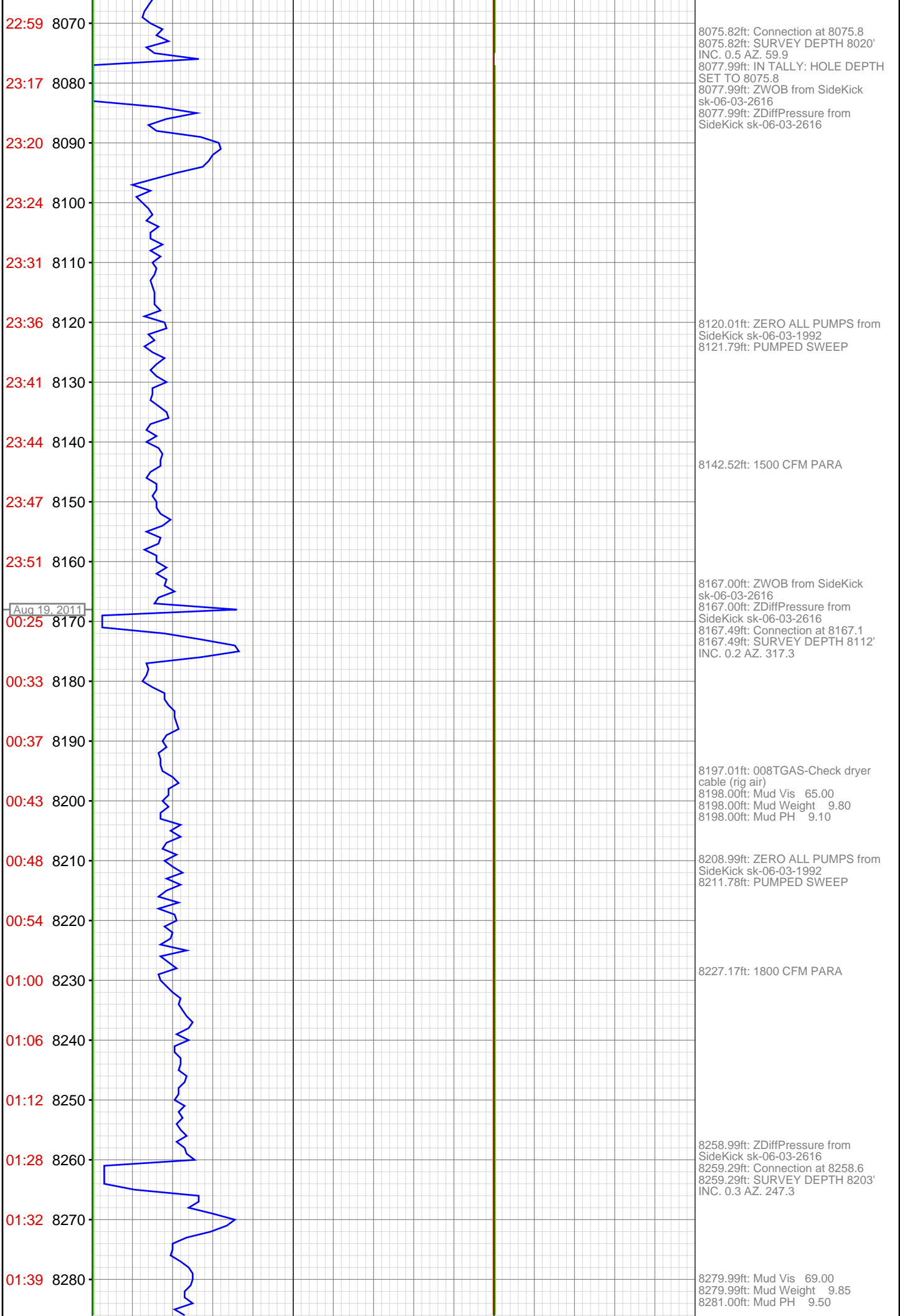


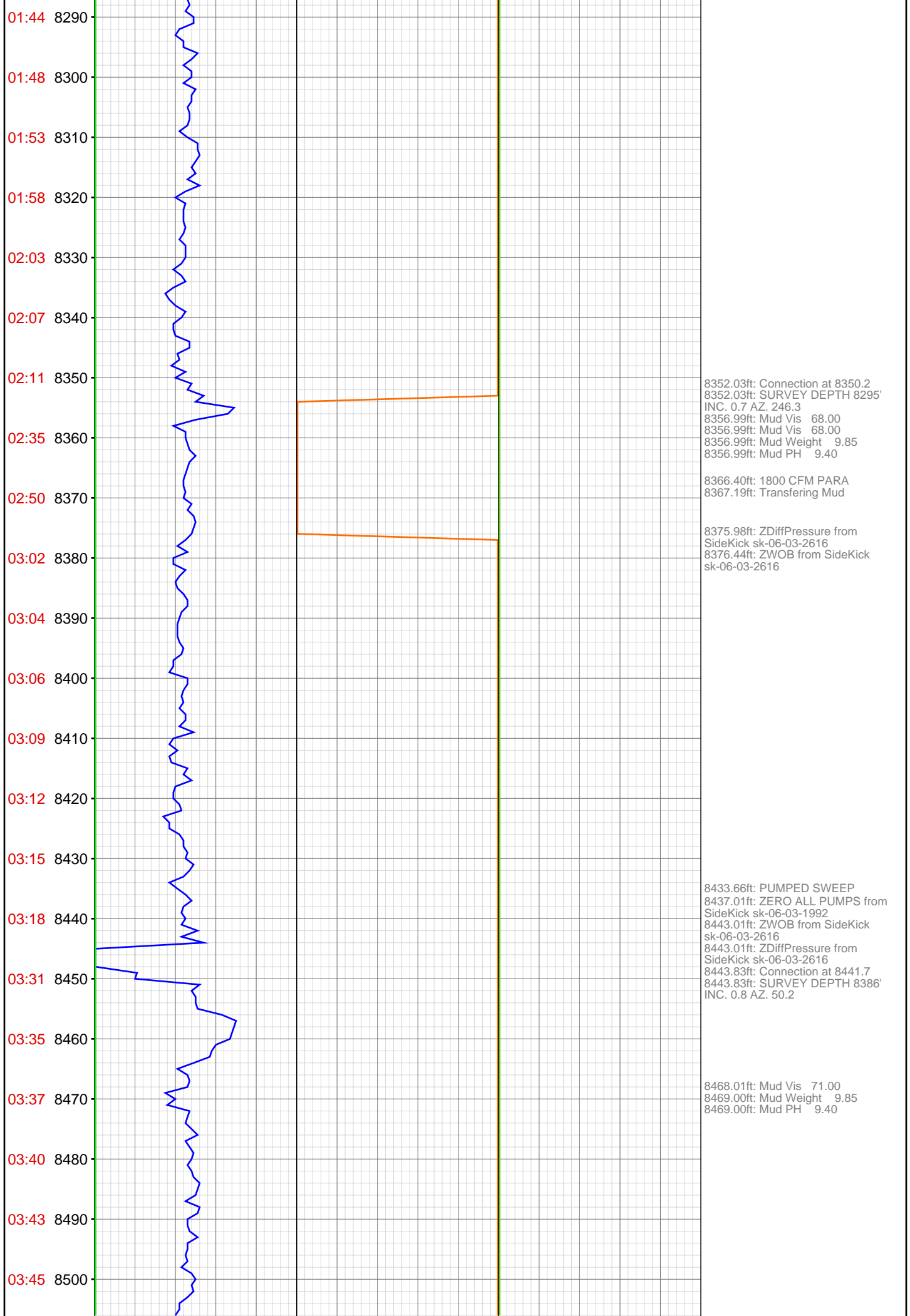












03:48 8510
03:51 8520
03:54 8530
04:12 8540
04:16 8550
04:19 8560
04:22 8570
04:25 8580
04:29 8590
04:33 8600
04:37 8610
04:40 8620
05:02 8630
05:06 8640
05:11 8650
05:16 8660
05:21 8670
05:25 8680
05:28 8690
05:33 8700
05:39 8710
06:04 8720



8535.99ft: ZWOB from SideKick
sk-06-03-2616
8535.99ft: ZDiffPressure from
SideKick sk-06-03-2616
8536.32ft: Connection at 8533.0
8536.32ft: SURVEY DEPTH 8478'
INC. 0.2 AZ. 128.1

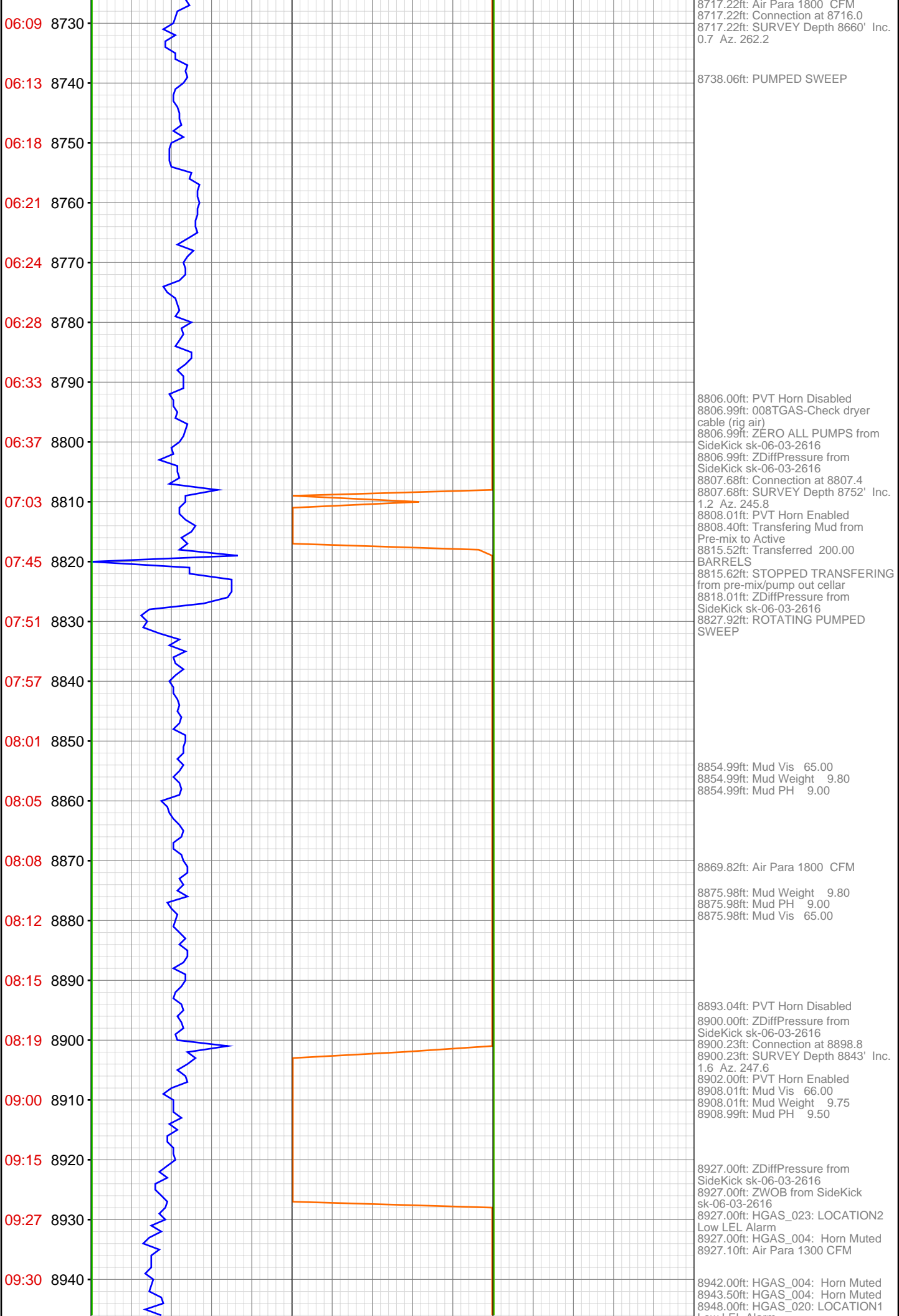
8597.90ft: PUMPED SWEEP
8602.99ft: Mud Vis 73.00
8602.99ft: Mud Weight 9.90
8602.99ft: Mud PH 9.30
8606.00ft: ZERO ALL PUMPS from
SideKick sk-06-03-1992

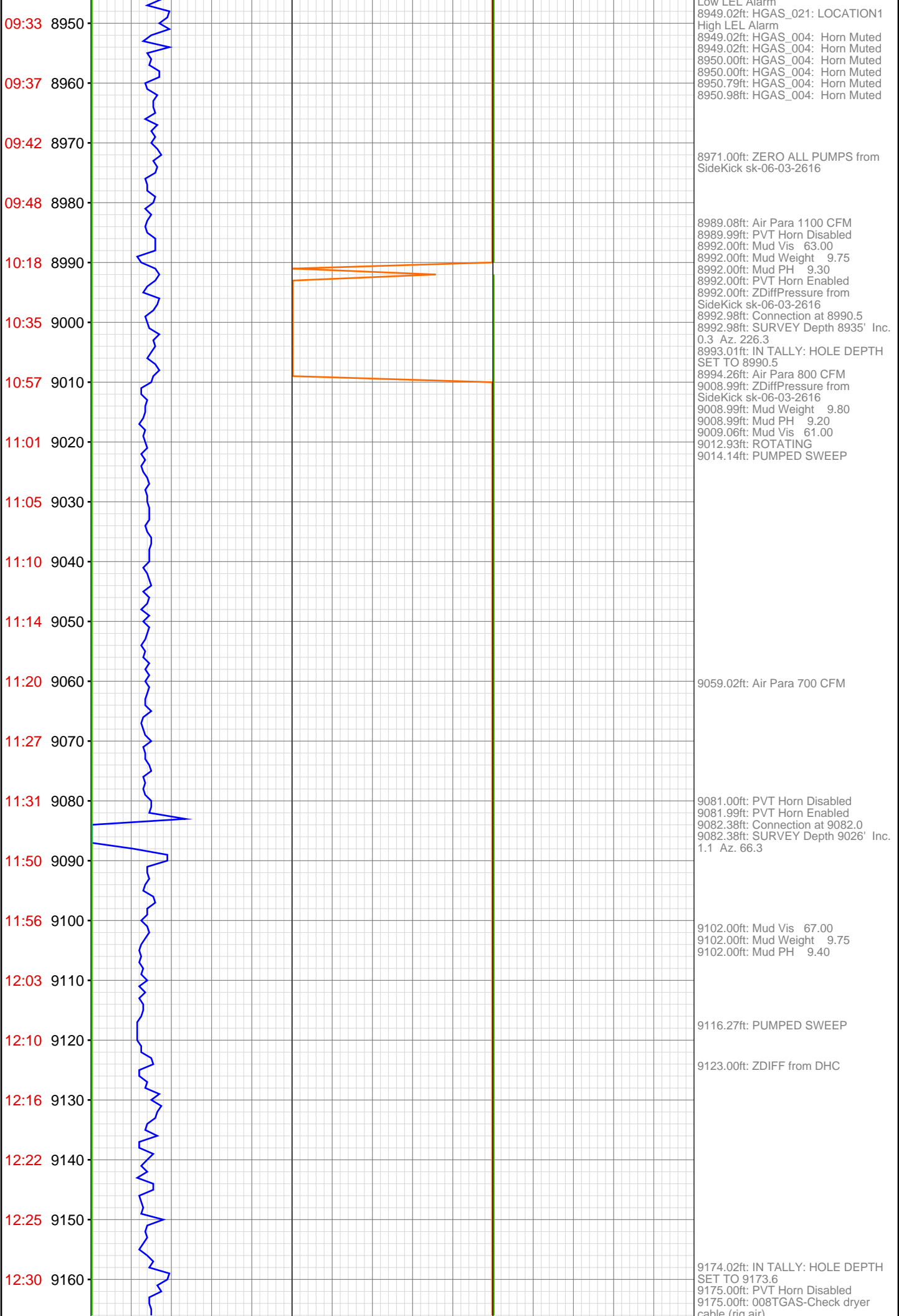
8624.44ft: Connection at 8624.4
8624.44ft: SURVEY DEPTH 8569'
INC. 0.5 AZ. 227.3
8627.82ft: PU/320 SO/145 ROT/190
TQ/22K
8627.99ft: IN TALLY: HOLE DEPTH
SET TO 8624.4
8627.99ft: ZWOB from SideKick
sk-06-03-2616
8627.99ft: ZDiffPressure from
SideKick sk-06-03-2616

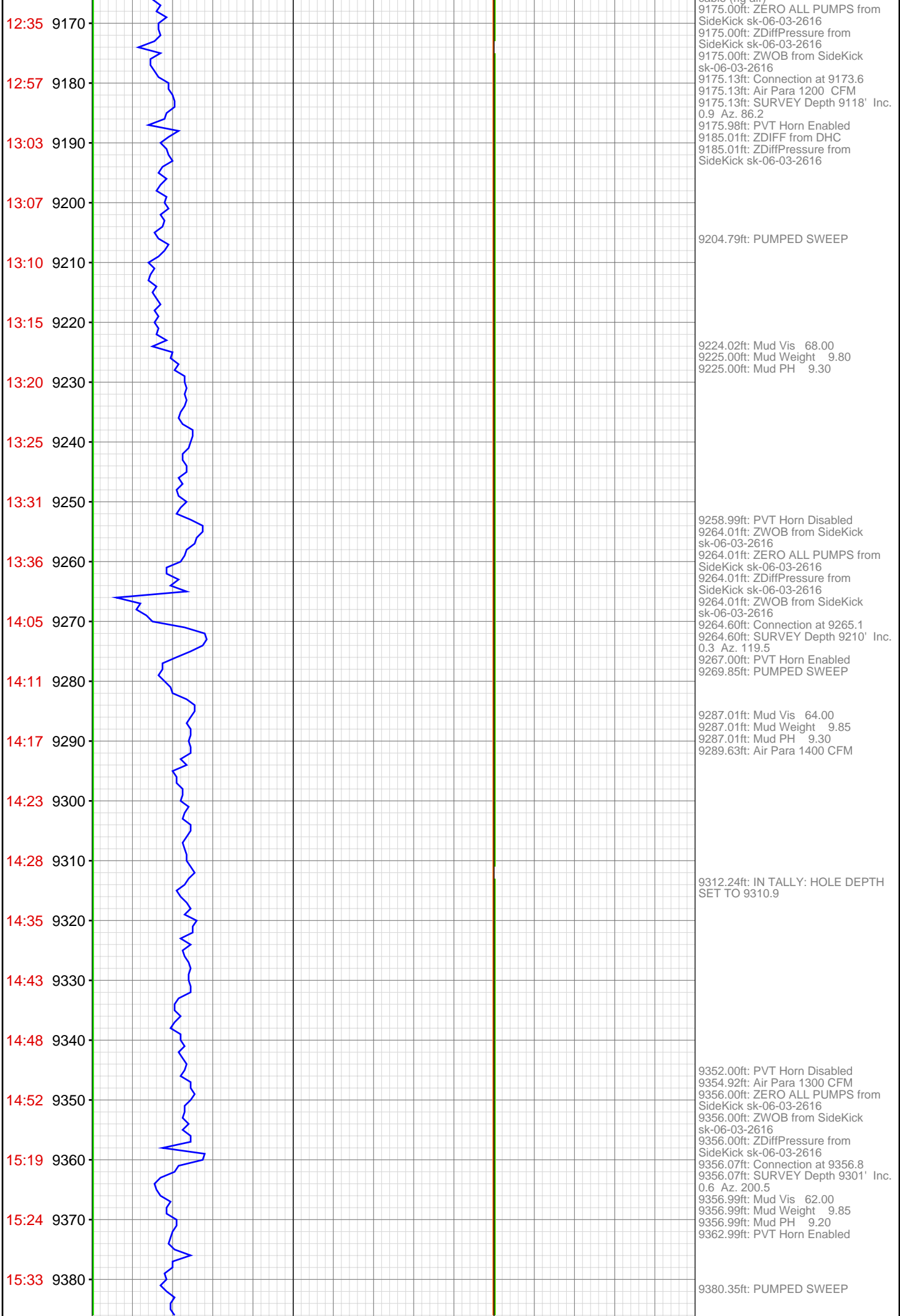
8660.99ft: Mud Vis 67.00
8662.01ft: Mud Weight 9.95
8662.01ft: Mud PH 9.30

8668.57ft: PUMPED SWEEP
8672.01ft: ZERO ALL PUMPS from
SideKick sk-06-03-1992
8674.08ft: 1800 CFM PARA

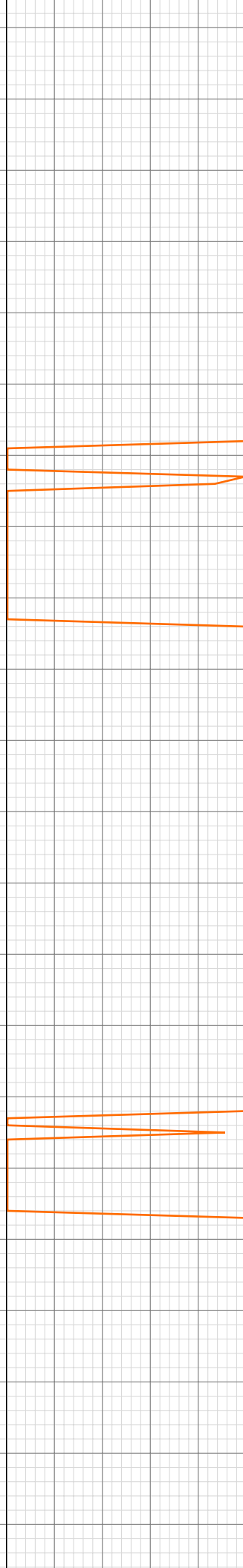
8710.99ft: PVT Horn Disabled
8716.01ft: IN TALLY: HOLE DEPTH
SET TO 8716.0
8717.00ft: Mud Vis 63.00
8717.00ft: Mud Weight 9.85
8717.00ft: Mud PH 9.30
8717.00ft: PVT Horn Enabled
8717.22ft: ZWOB from SideKick
sk-06-03-2616







15:38 9390
15:45 9400
15:52 9410
15:58 9420
16:04 9430
16:09 9440
17:15 9450
17:40 9460
17:53 9470
18:06 9480
18:11 9490
18:22 9500
18:29 9510
18:35 9520
18:41 9530
18:45 9540
19:29 9550
19:44 9560
19:47 9570
19:50 9580
19:53 9590
19:56 9600



9404.07ft: IN TALLY: HOLE DEPTH
SET TO 9402.5

9447.01ft: ZERO ALL PUMPS from
SideKick sk-06-03-2616
9447.01ft: ZDiffPressure from
SideKick sk-06-03-2616
9447.01ft: Mud Weight 9.75
9447.01ft: Mud PH 9.60
9447.64ft: PVT Horn Disabled
9447.64ft: RIG SERVICE
9447.64ft: SURVEY Depth 9493' Inc.
1.2 Az. 235.4
9447.64ft: SURVEY DEPTH
CORRECTION 9393' INC. 1.2 AZ.
235.4
9447.64ft: LAYED DOWN ONE
JOINT DRILL PIPE DUE TO
WASHED BOX
9447.64ft: Mud Vis 64.00
9447.64ft: Connection at 9448.2
9448.00ft: PVT Horn Enabled
9453.94ft: Air Para 1400 CFM

9473.00ft: ZDiffPressure from
SideKick sk-06-03-2616
9473.43ft: ZWOB from SideKick
sk-06-03-2616
9473.43ft: ZDiffPressure from
SideKick sk-06-03-2616

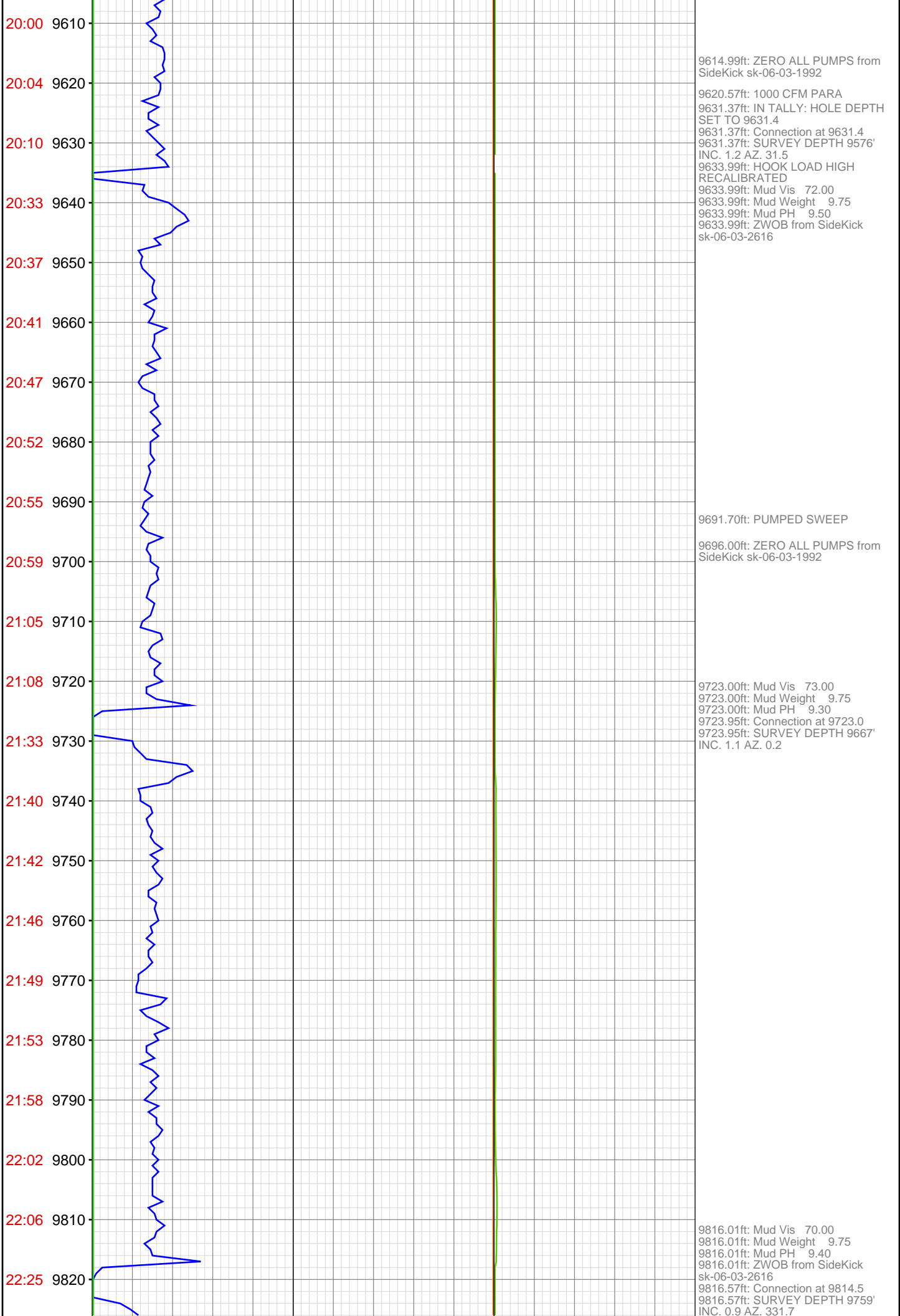
9495.01ft: Mud Vis 71.00
9495.01ft: Mud PH 9.60
9495.01ft: ZDiffPressure from
SideKick sk-06-03-2616
9495.41ft: Mud Weight 9.80
9495.41ft: Connection at 9494.0
9502.00ft: ZERO ALL PUMPS from
SideKick sk-06-03-1992
9503.38ft: PUMPED SWEEP

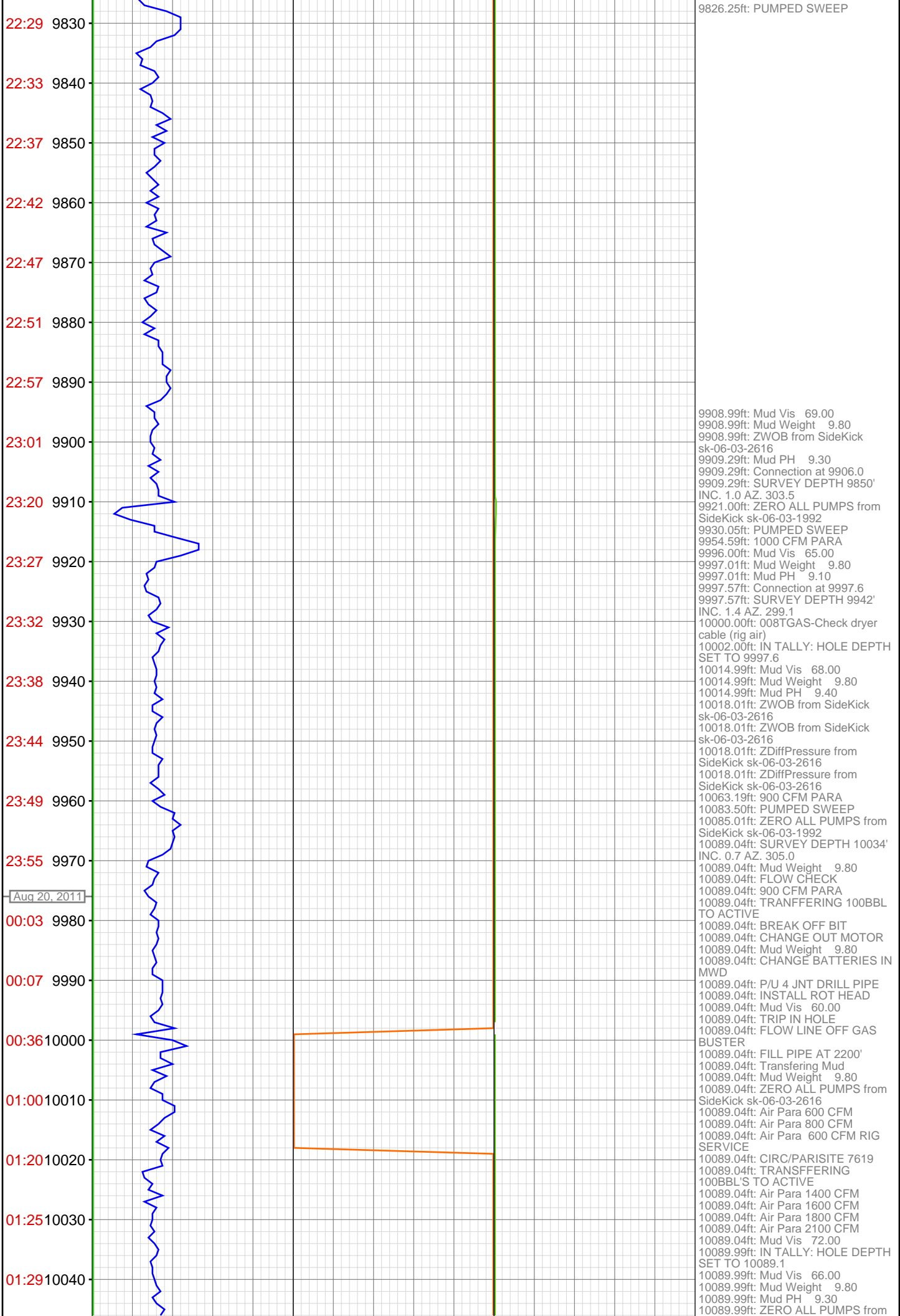
9531.00ft: 021TGAS 05121549
SW0.30 HW30.00 - 18 days on
9531.00ft: 008TGAS-Check dryer
cable (rig air)
9541.86ft: Connection at 9539.8
9541.86ft: SURVEY DEPTH 9484'
INC. 0.8 AZ. 38.6
9543.70ft: PU/350 SO/150 ROT/195
TQ/20K
9545.01ft: Mud Vis 67.00
9545.01ft: Mud Weight 9.75
9545.87ft: Mud PH 9.50

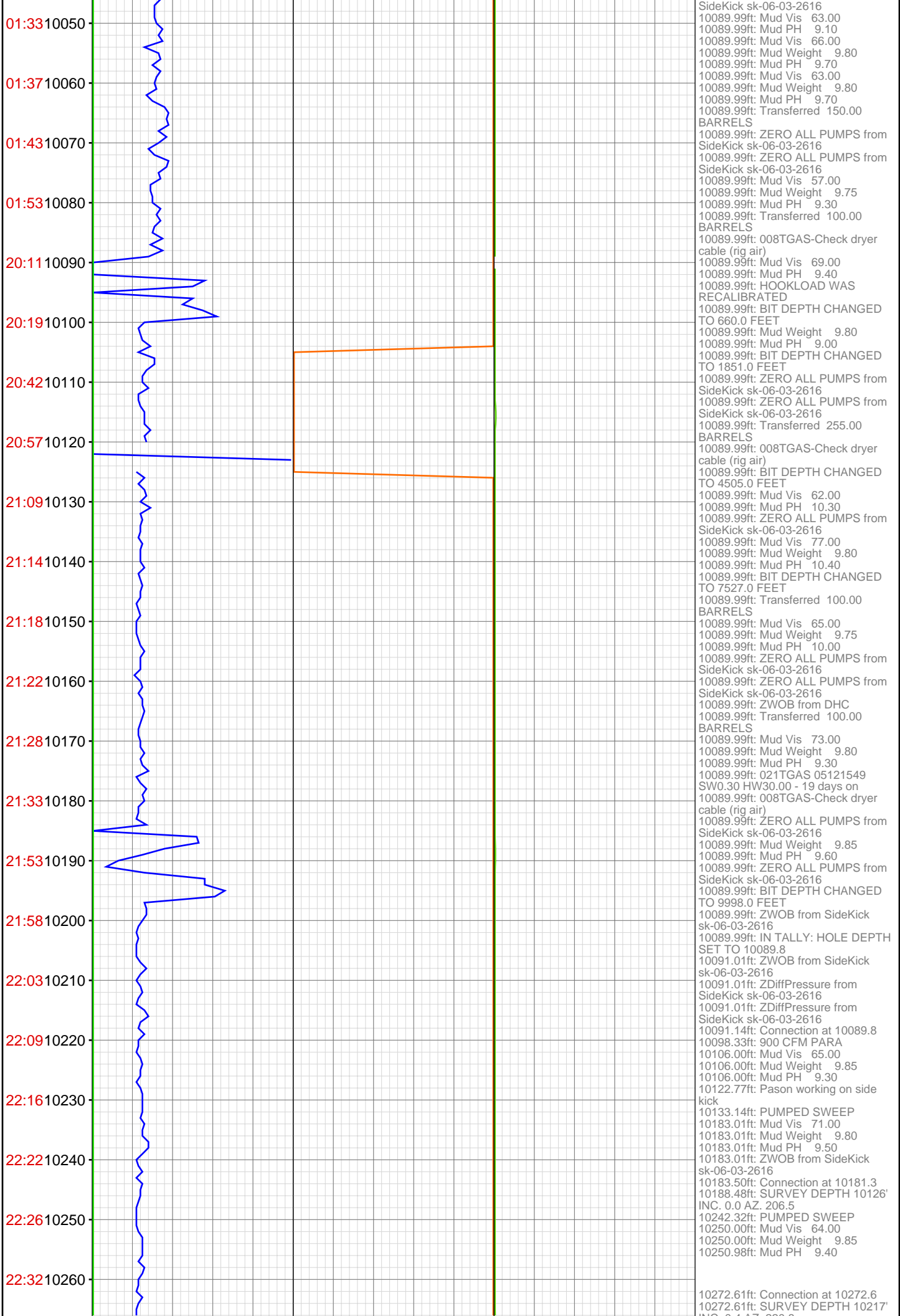
9554.76ft: 1200 CFM PARA
9556.00ft: ZDiffPressure from
SideKick sk-06-03-2616

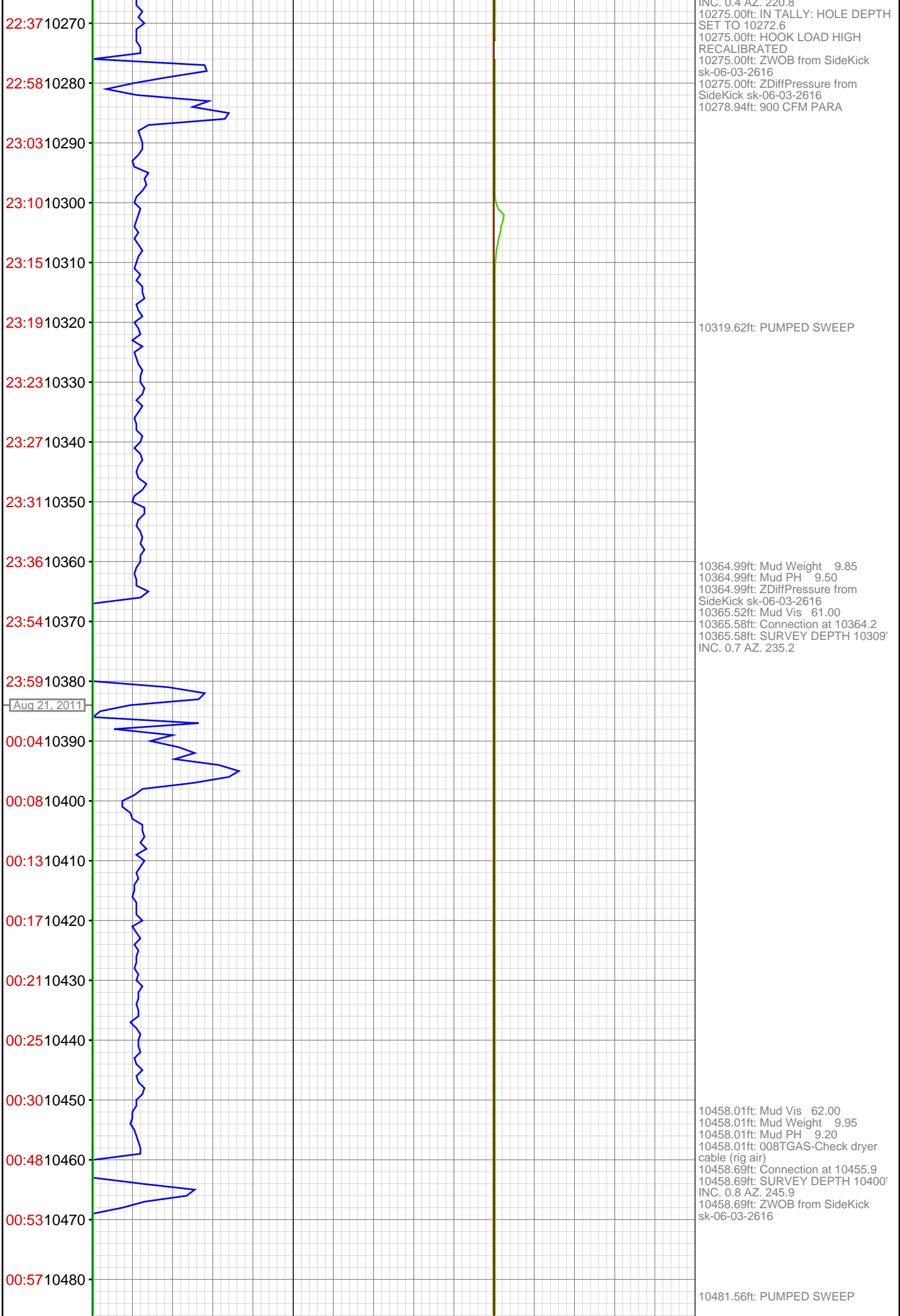
9582.42ft:
OBP=2451PSI@9570'W/130STK

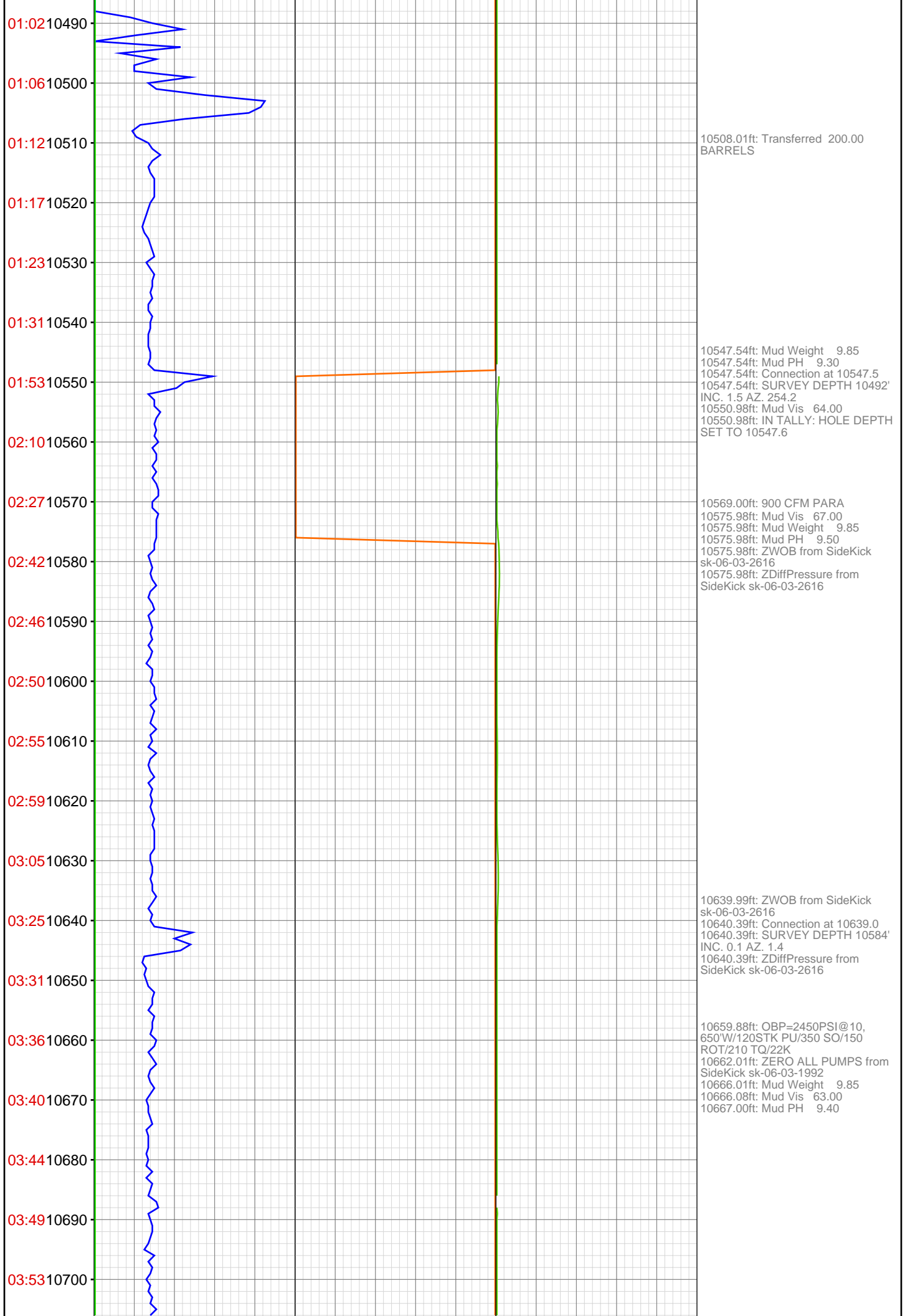
9604.13ft: PUMPED SWEEP



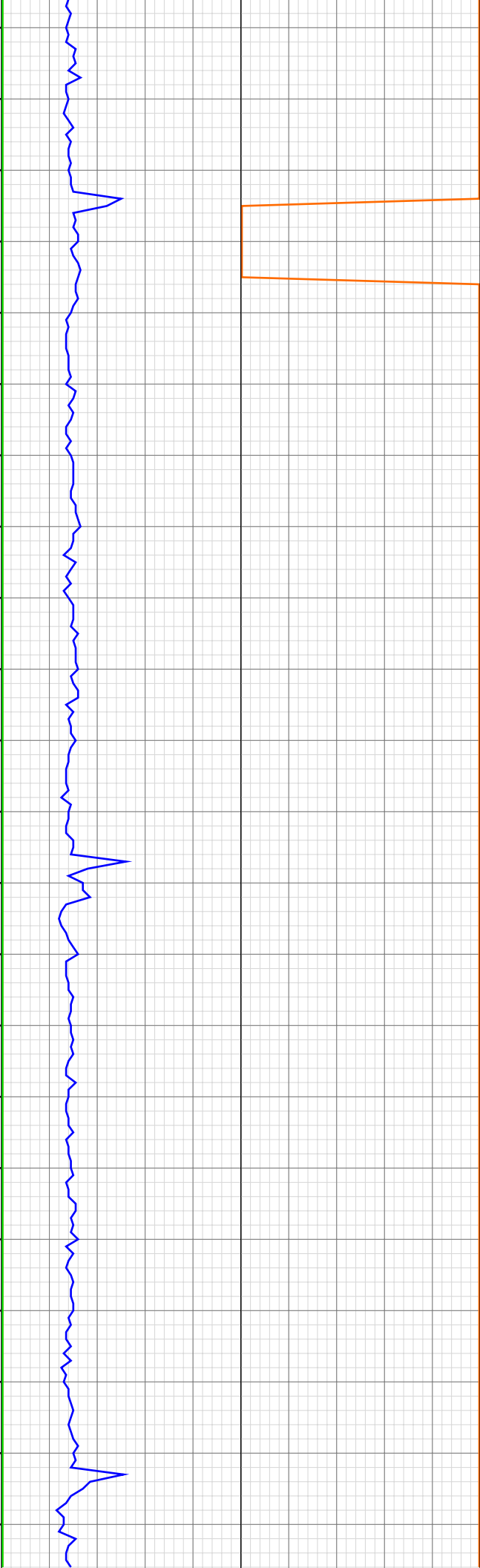








03:57 10710
04:01 10720
04:06 10730
04:45 10740
05:00 10750
05:04 10760
05:09 10770
05:15 10780
05:19 10790
05:24 10800
05:31 10810
05:36 10820
05:59 10830
06:05 10840
06:09 10850
06:13 10860
06:18 10870
06:26 10880
06:30 10890
06:33 10900
06:38 10910
07:05 10920



10733.33ft: Connection at 10730.6
10733.33ft: SURVEY DEPTH 10675'
INC. 0.6 AZ. 313.2
10743.01ft: Mud Weight 9.75
10743.01ft: Mud PH 9.50
10743.31ft: Mud Vis 67.00
10744.65ft: Air Para 900 CFM
10745.01ft: ZWOB from SideKick
sk-06-03-2616
10745.01ft: ZDiffPressure from
SideKick sk-06-03-2616
10749.02ft: ZERO ALL PUMPS from
SideKick sk-06-03-1992
10752.63ft: PUMPED SWEEP

10825.00ft: PVT Horn Disabled
10825.98ft: ZERO ALL PUMPS from
SideKick sk-06-03-2616
10825.98ft: ZWOB from SideKick
sk-06-03-2616
10825.98ft: ZDiffPressure from
SideKick sk-06-03-2616
10825.98ft: ZDiffPressure from
SideKick sk-06-03-2616
10825.98ft: ZWOB from SideKick
sk-06-03-2616
10826.18ft: Connection at 10822.0
10826.18ft: SURVEY Depth 10,767'
Inc. 1.6 Az. 265.1
10831.00ft: PVT Horn Enabled
10831.20ft: ROTATING

10846.00ft: ZERO ALL PUMPS from
SideKick sk-06-03-2616
10846.49ft: PUMPED SWEEP

10868.01ft: IN TALLY: HOLE DEPTH
SET TO 10867.8

10908.99ft: PVT Horn Disabled
10912.01ft: 008TGAS-Check dryer
cable (rig air)
10912.01ft: ZWOB from SideKick
sk-06-03-2616
10912.01ft: ZDiffPressure from
SideKick sk-06-03-2616
10912.01ft: PVT Horn Enabled
10912.86ft: Connection at 10913.5
10912.86ft: SURVEY Depth 10,858'

