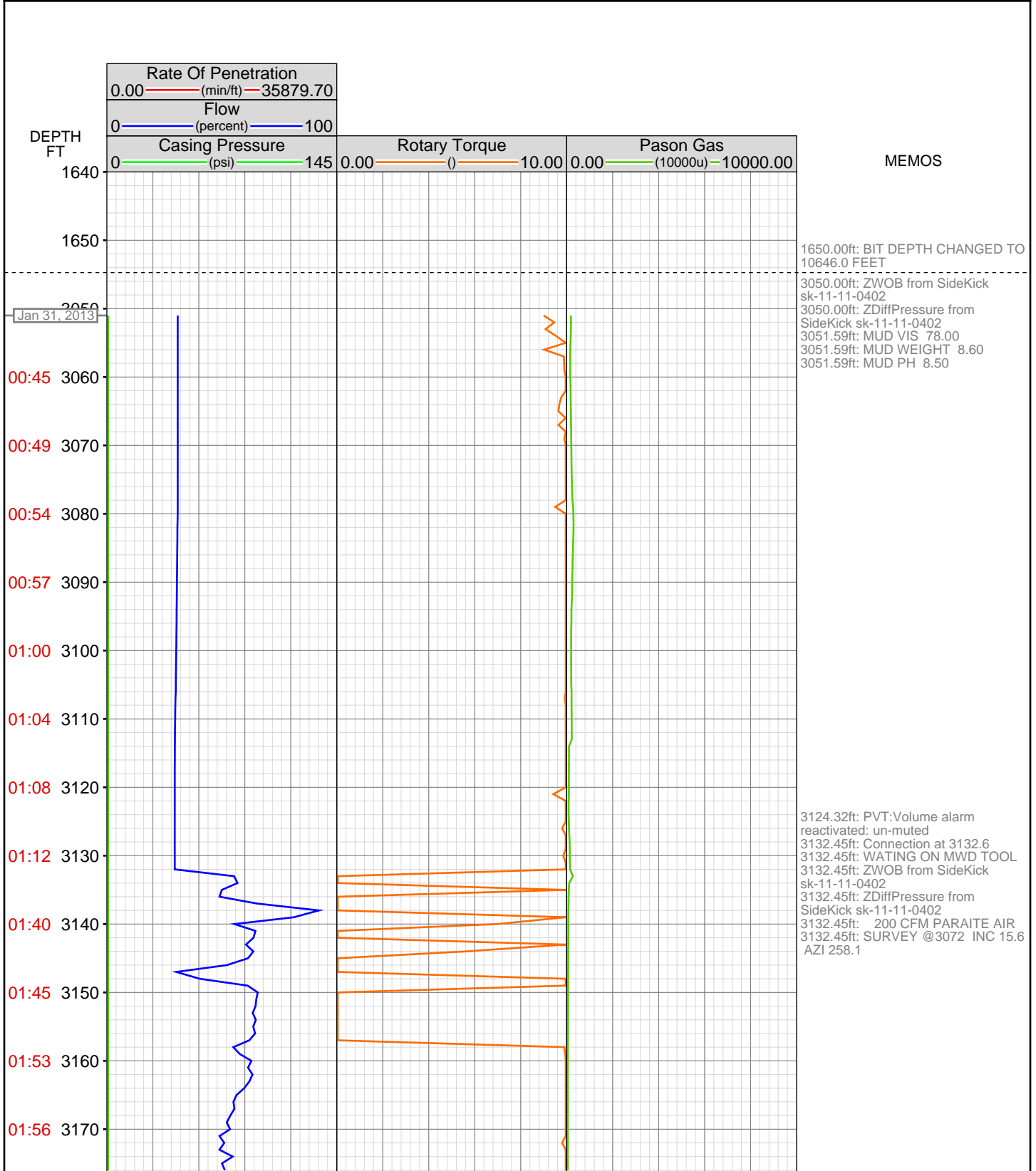


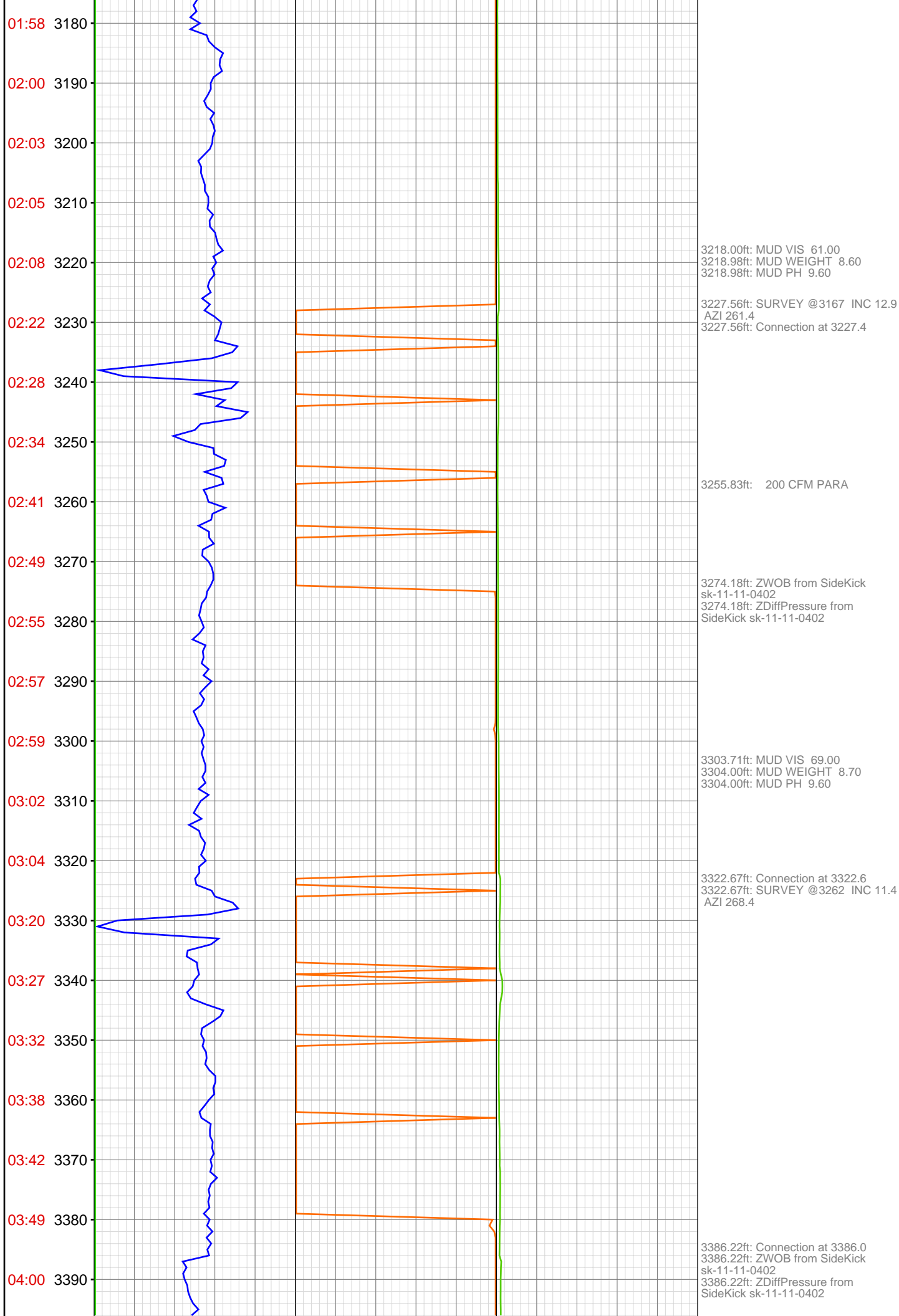
DataHub EDR Log

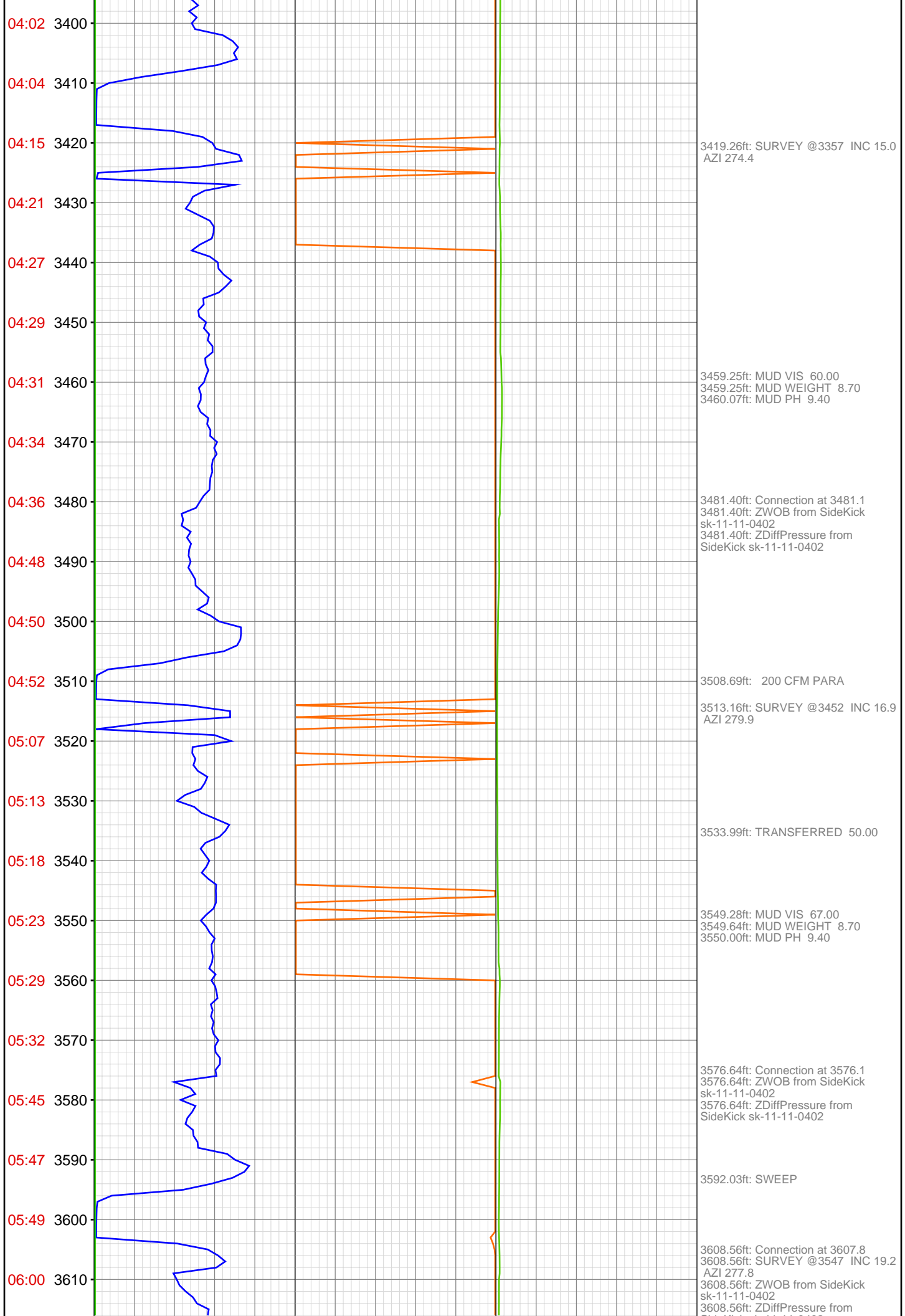
Tue Feb 12, 2013 08:04:13
Well Dossier 1359508879
Marilyn Tucker

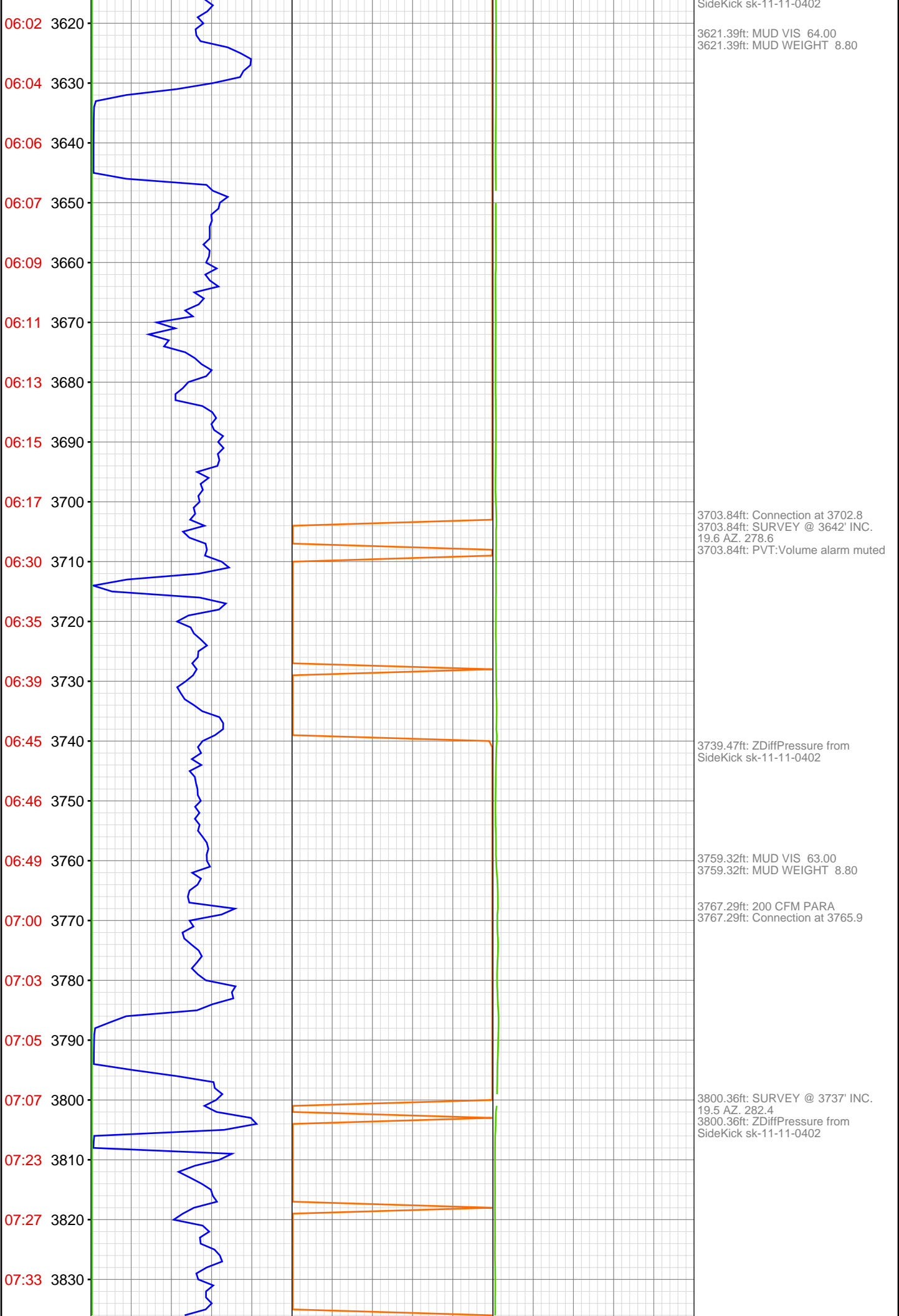
OPERATOR: EnCana Oil & Gas (USA), Inc.
WELL: SG 8510D-23 L24 496
FIELD:
LOCATION: SEC24 T4S R6W
COUNTRY: USA
RIG: Pat-UTI 330

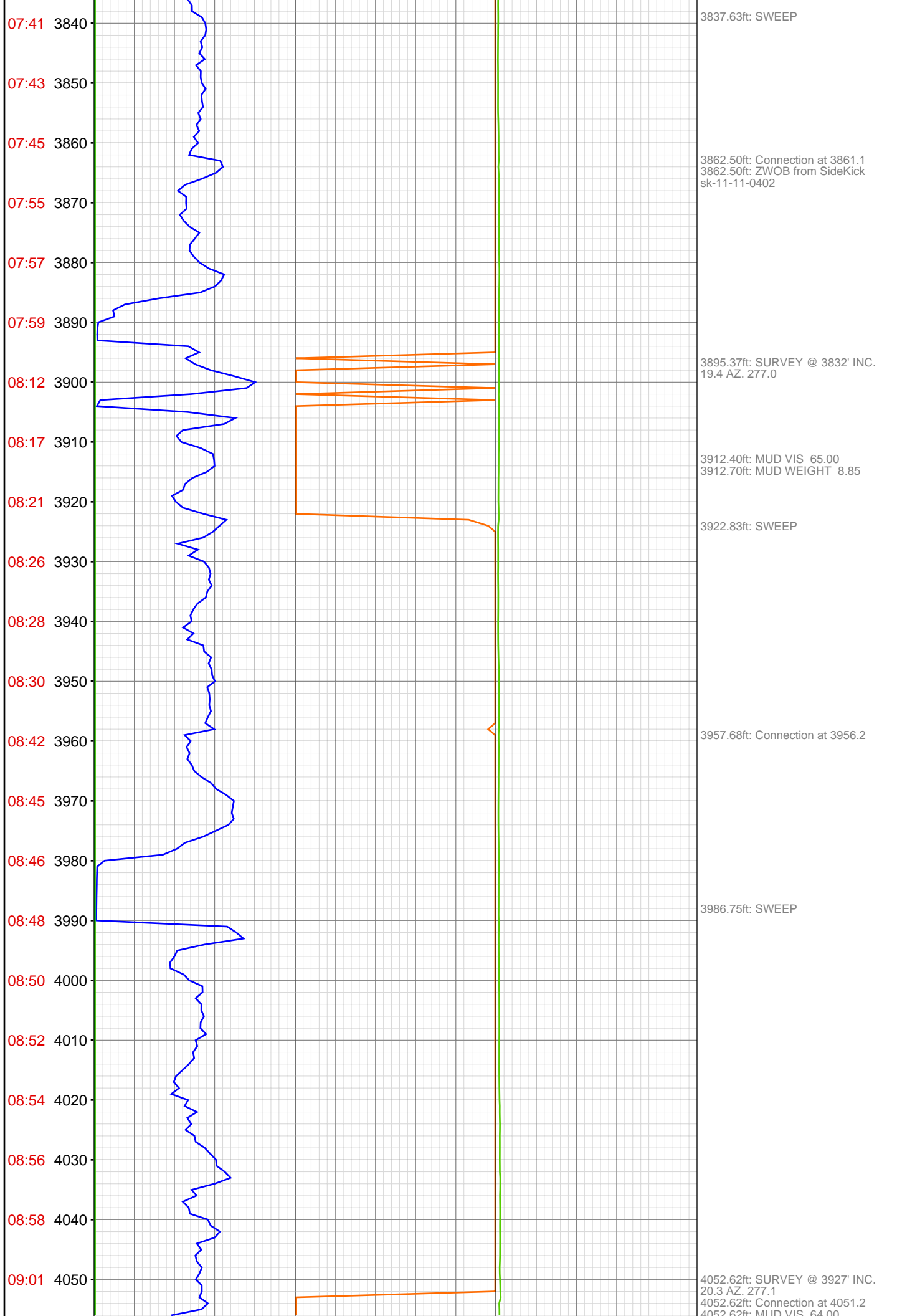
CONTRACTOR: Patterson-UTI Drilling Company
UNIQUE WELL ID:
SPUD DATE: Jan 31, 2013 00:30
RELEASE DATE: Feb 09, 2013 01:30

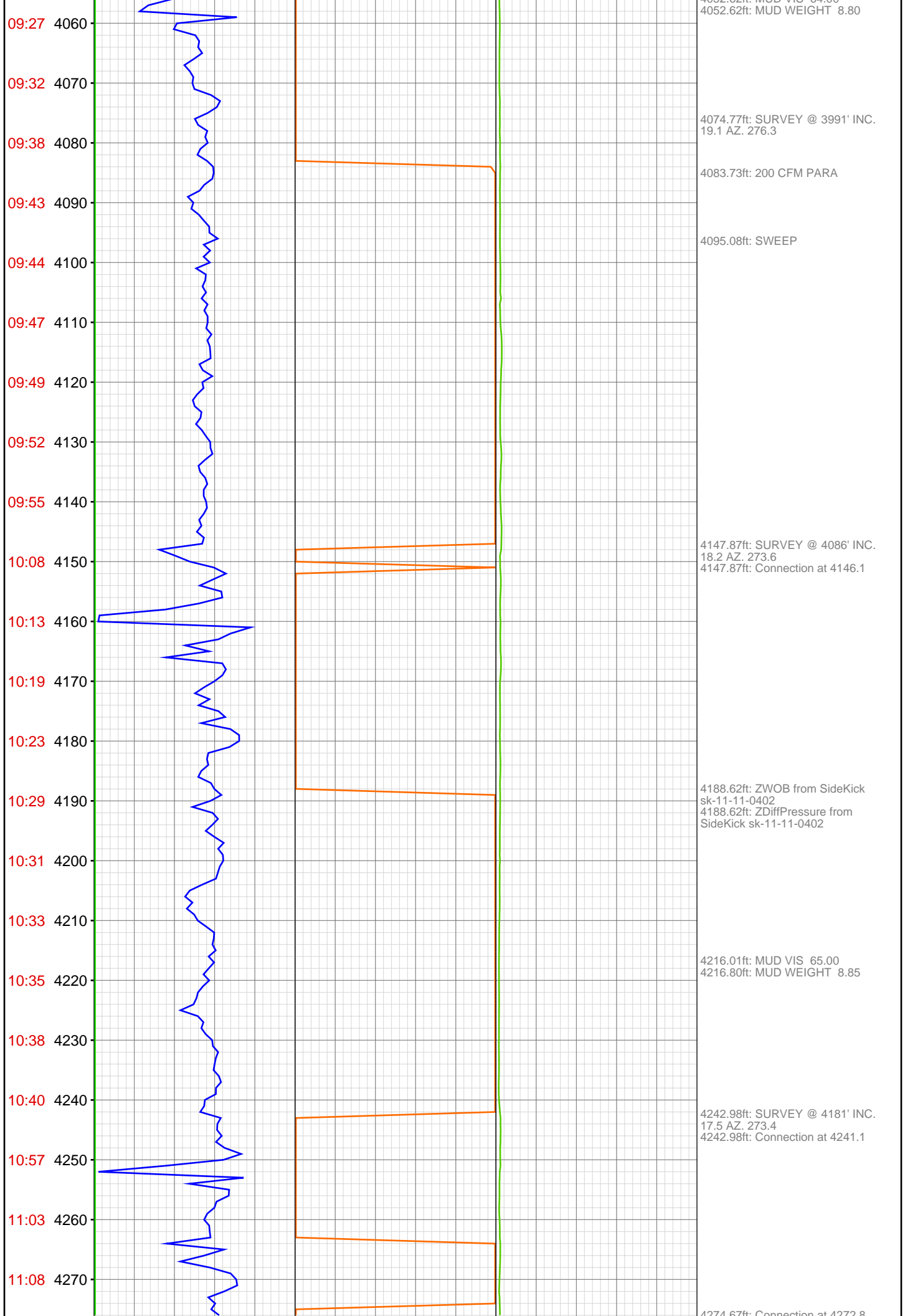


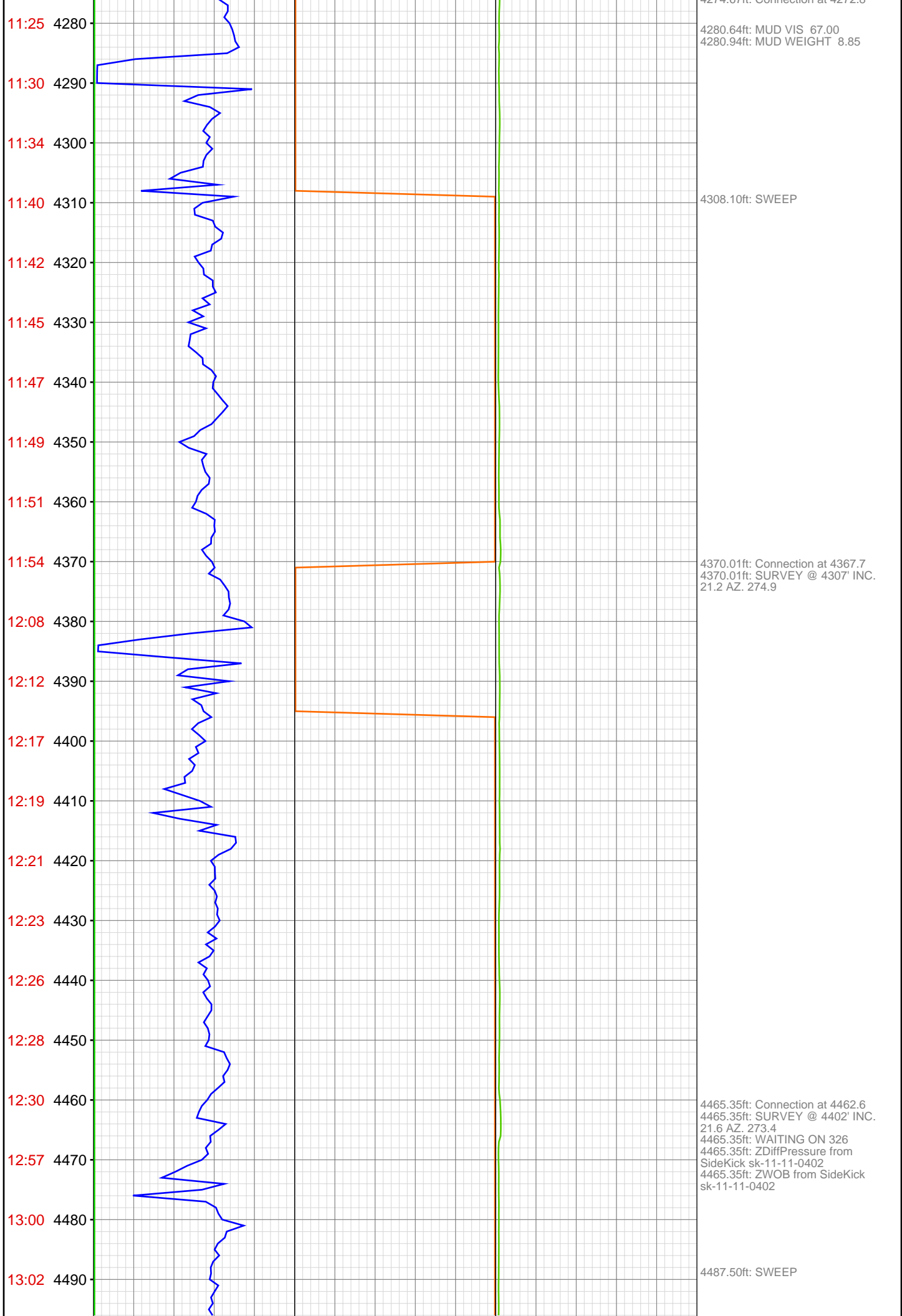


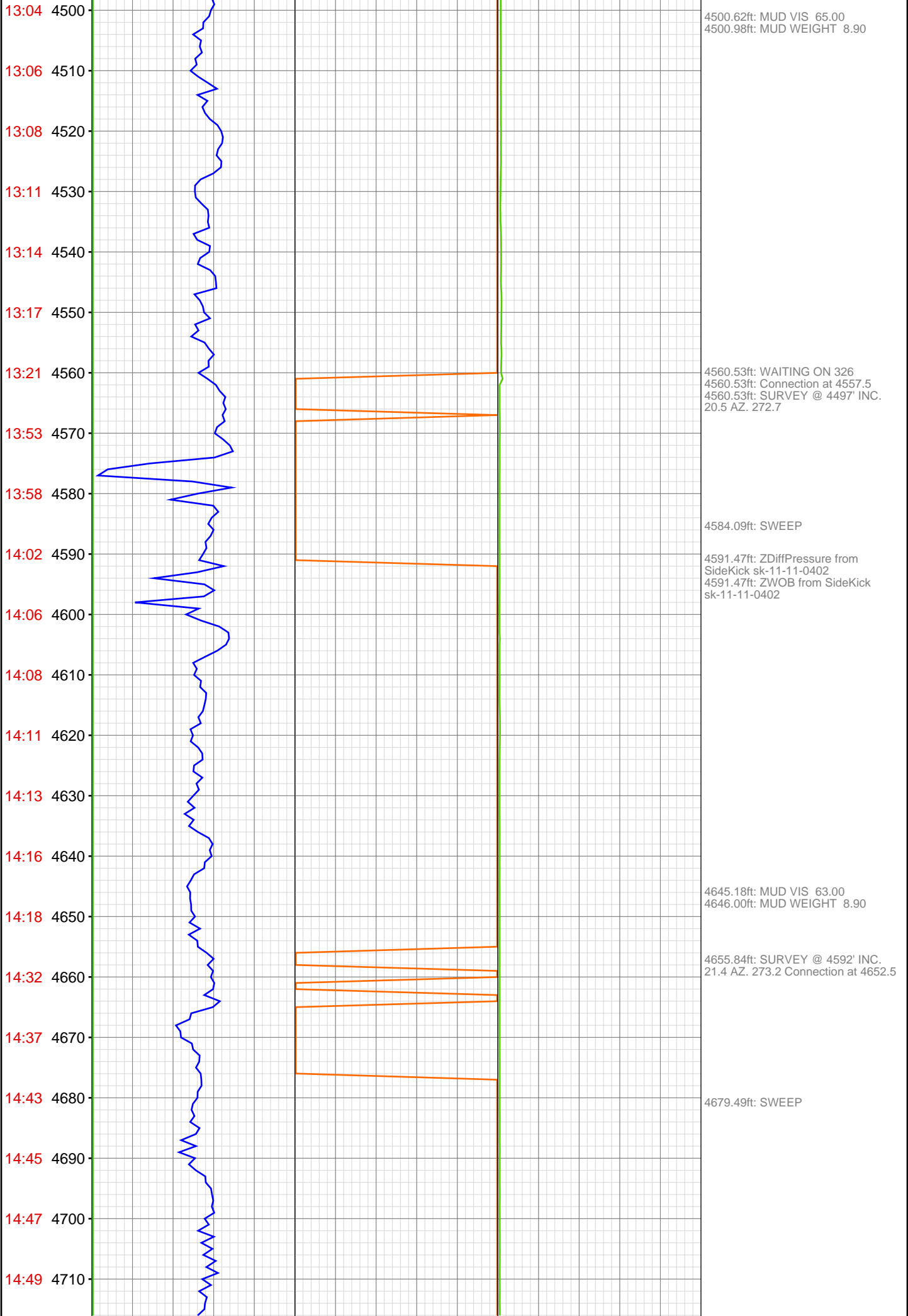


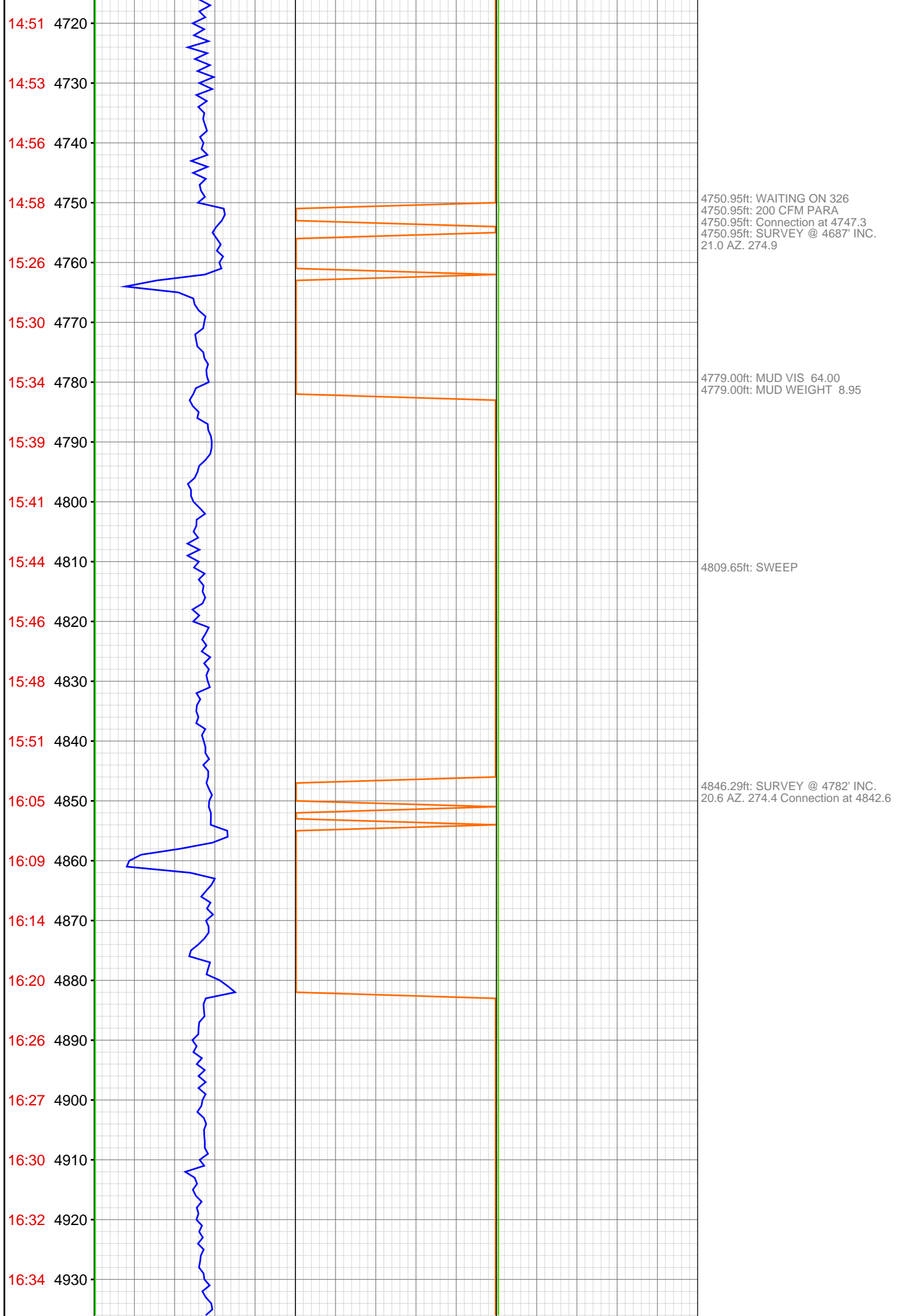


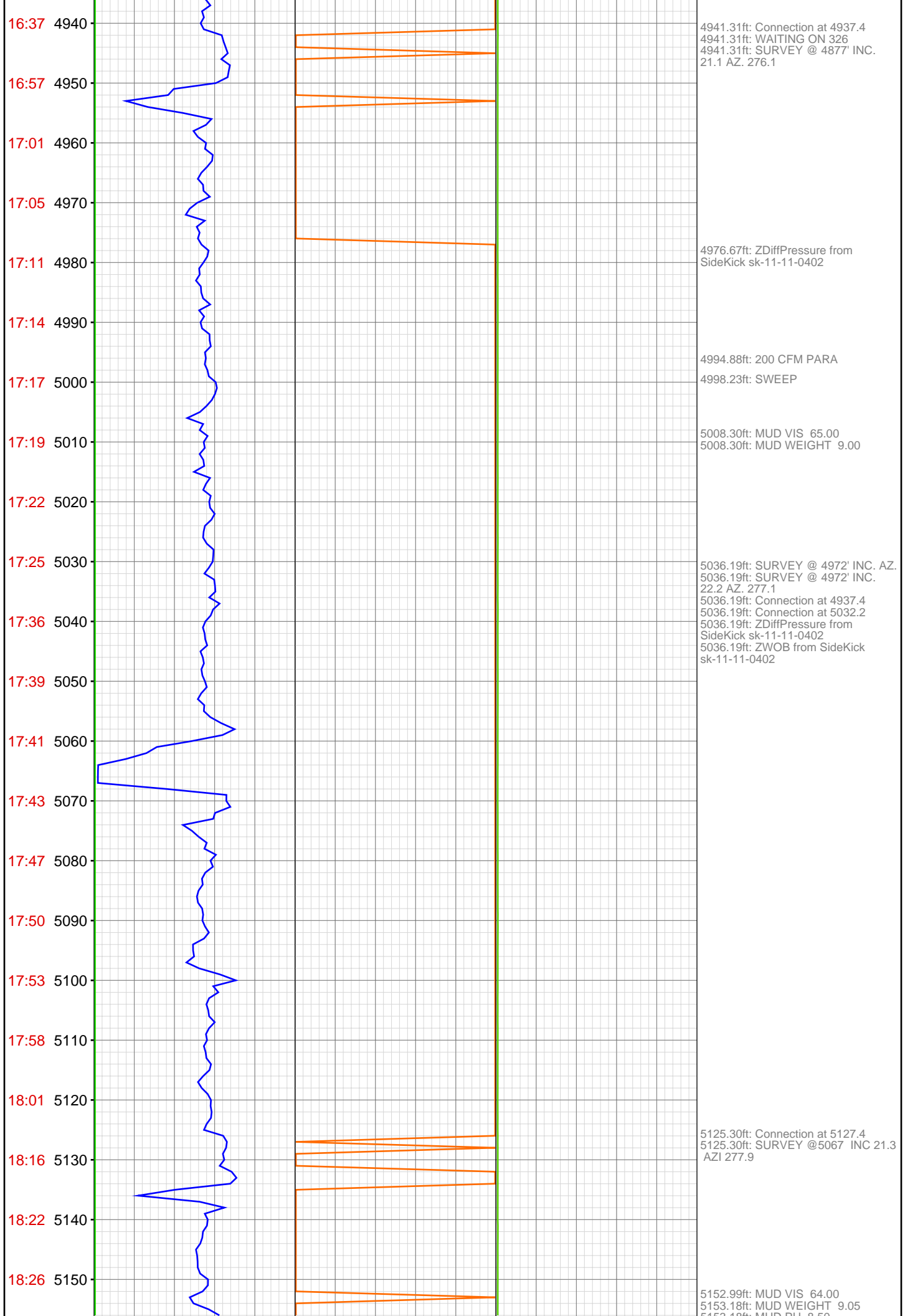


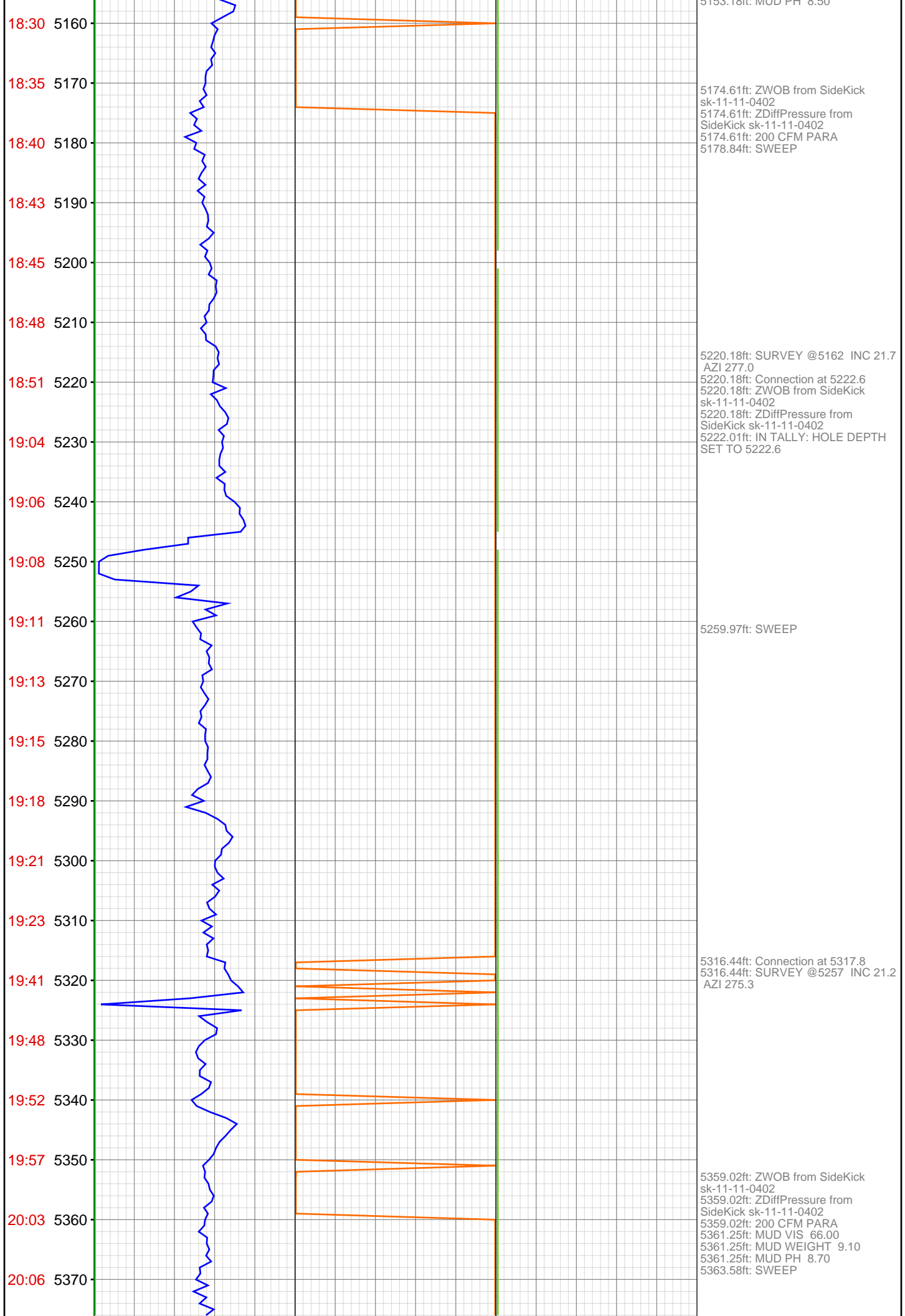


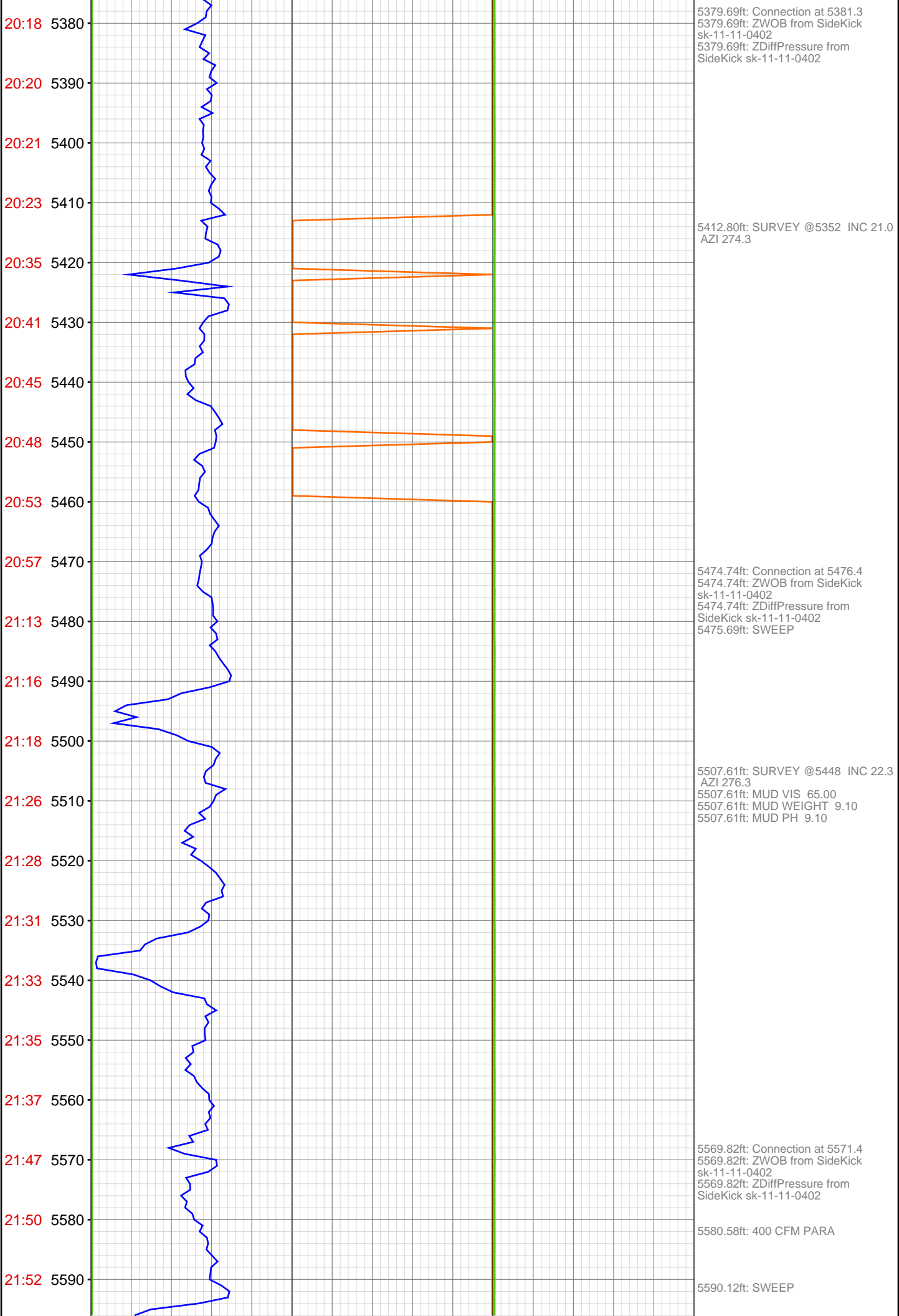


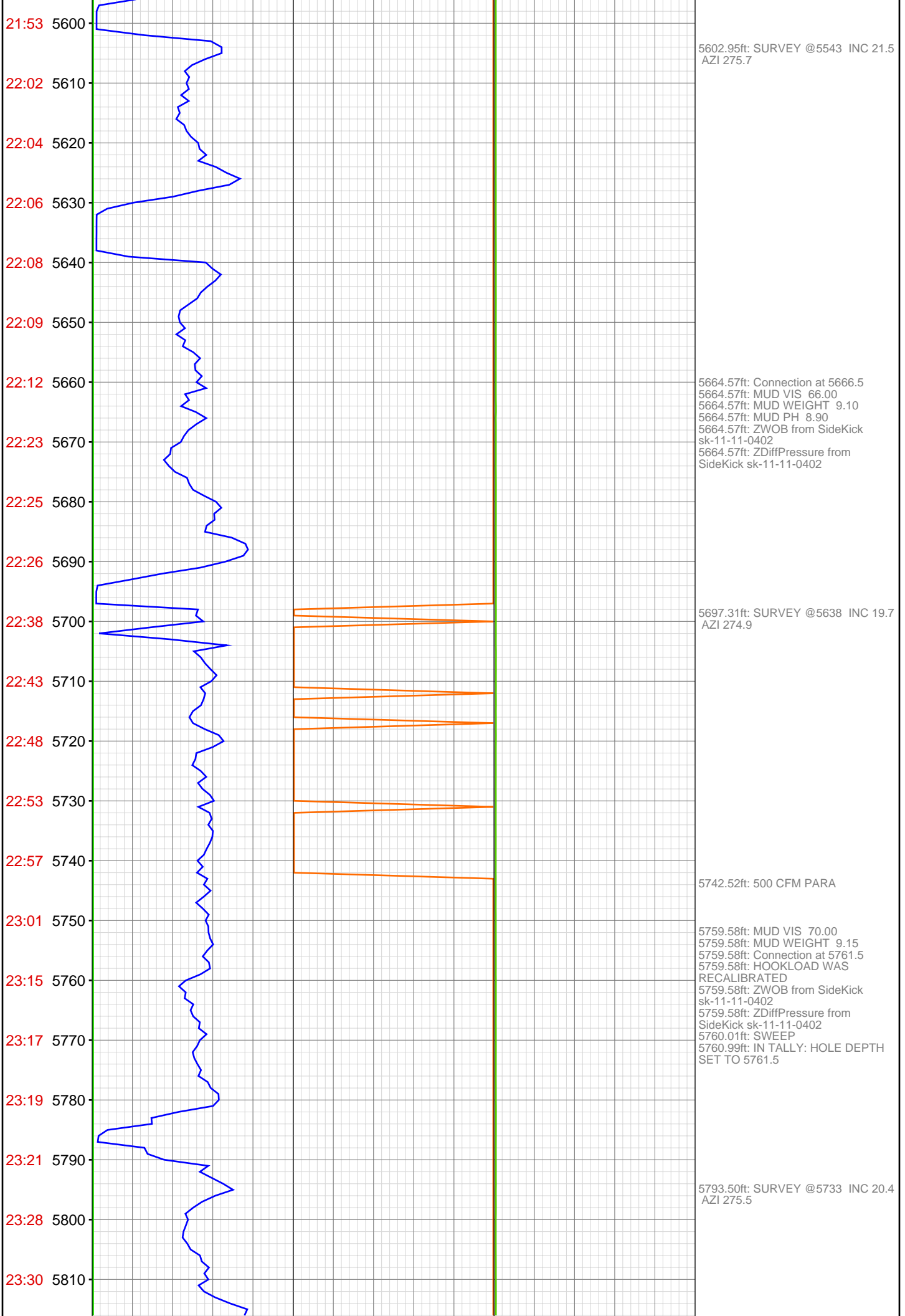


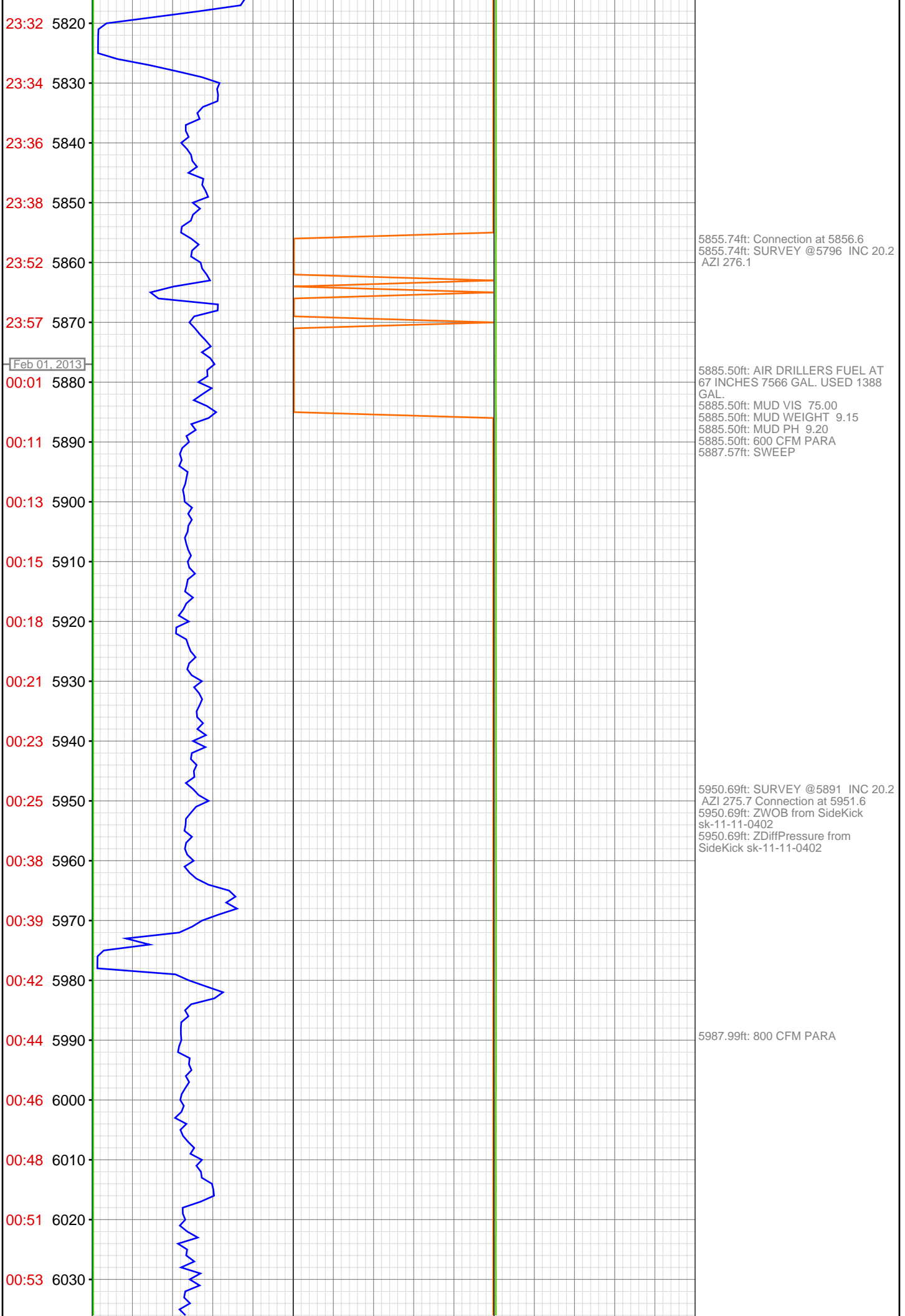


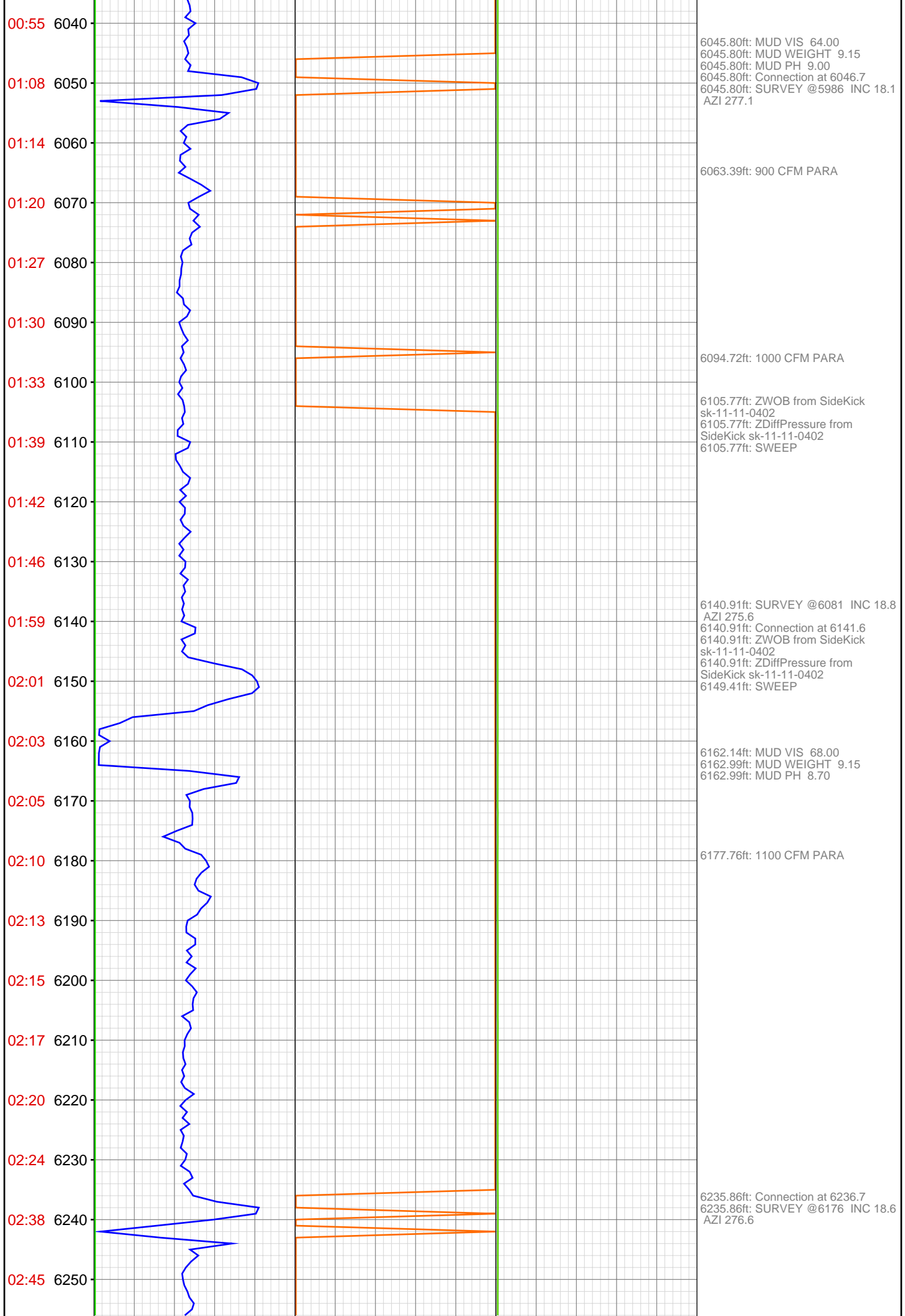


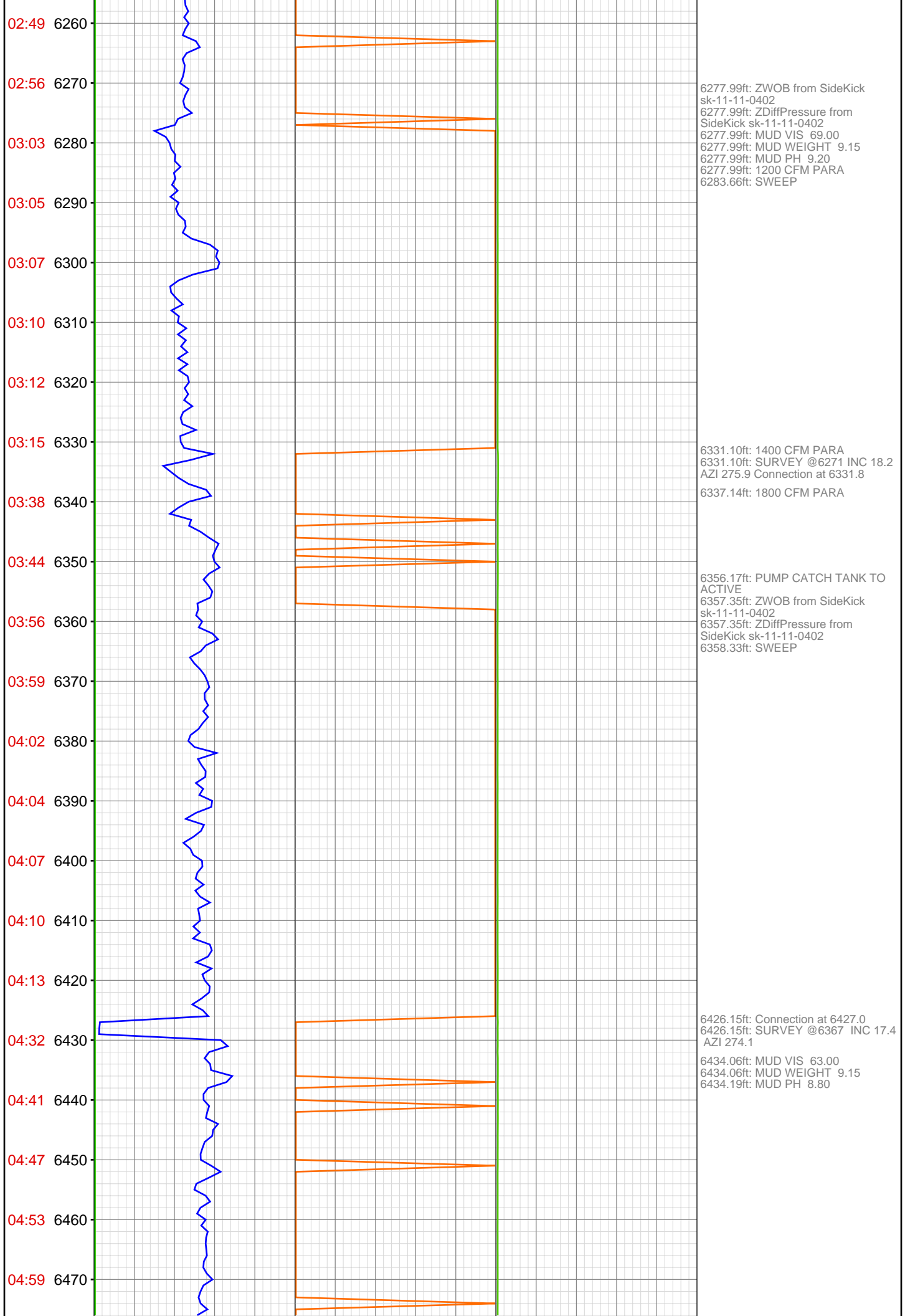


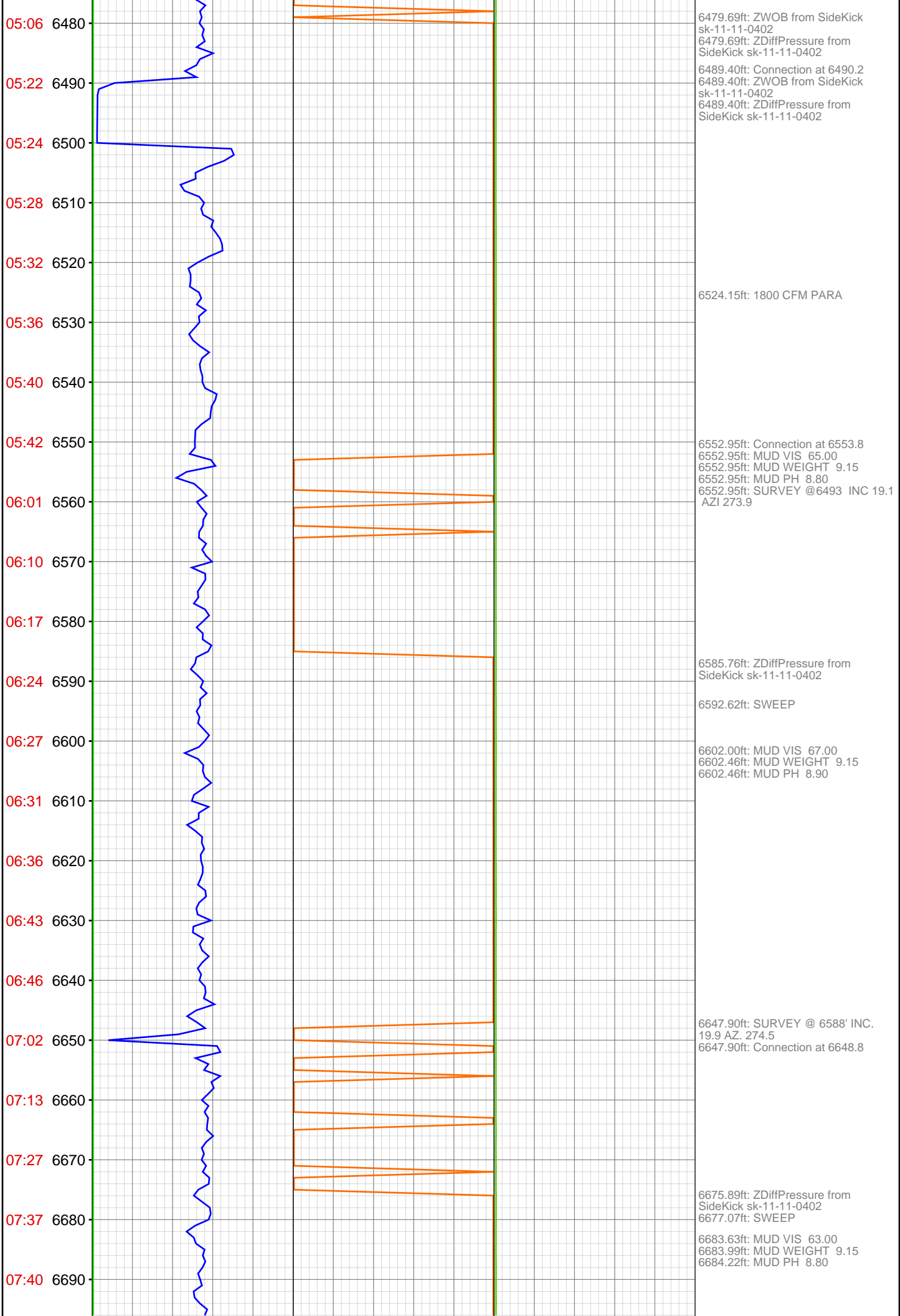


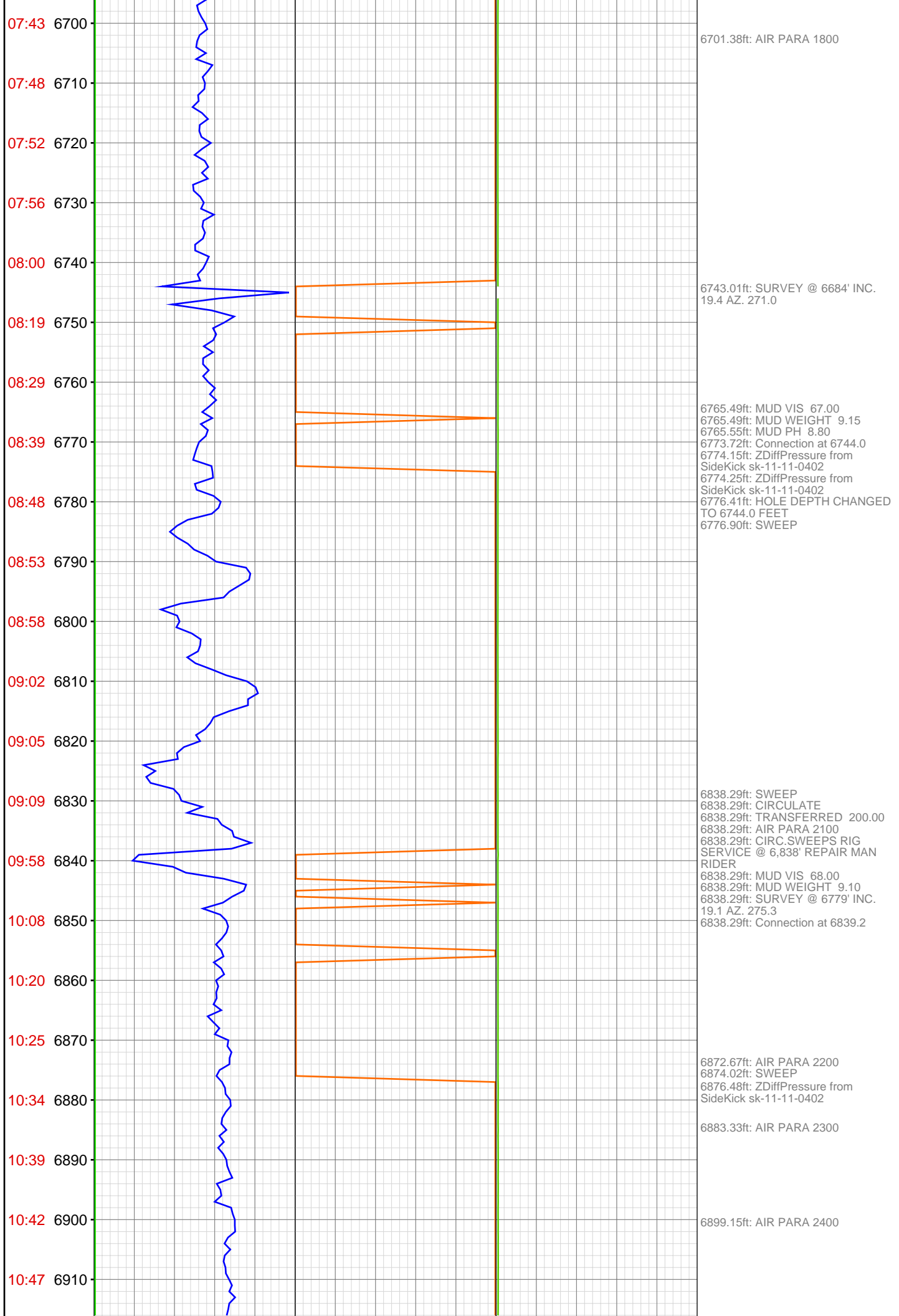


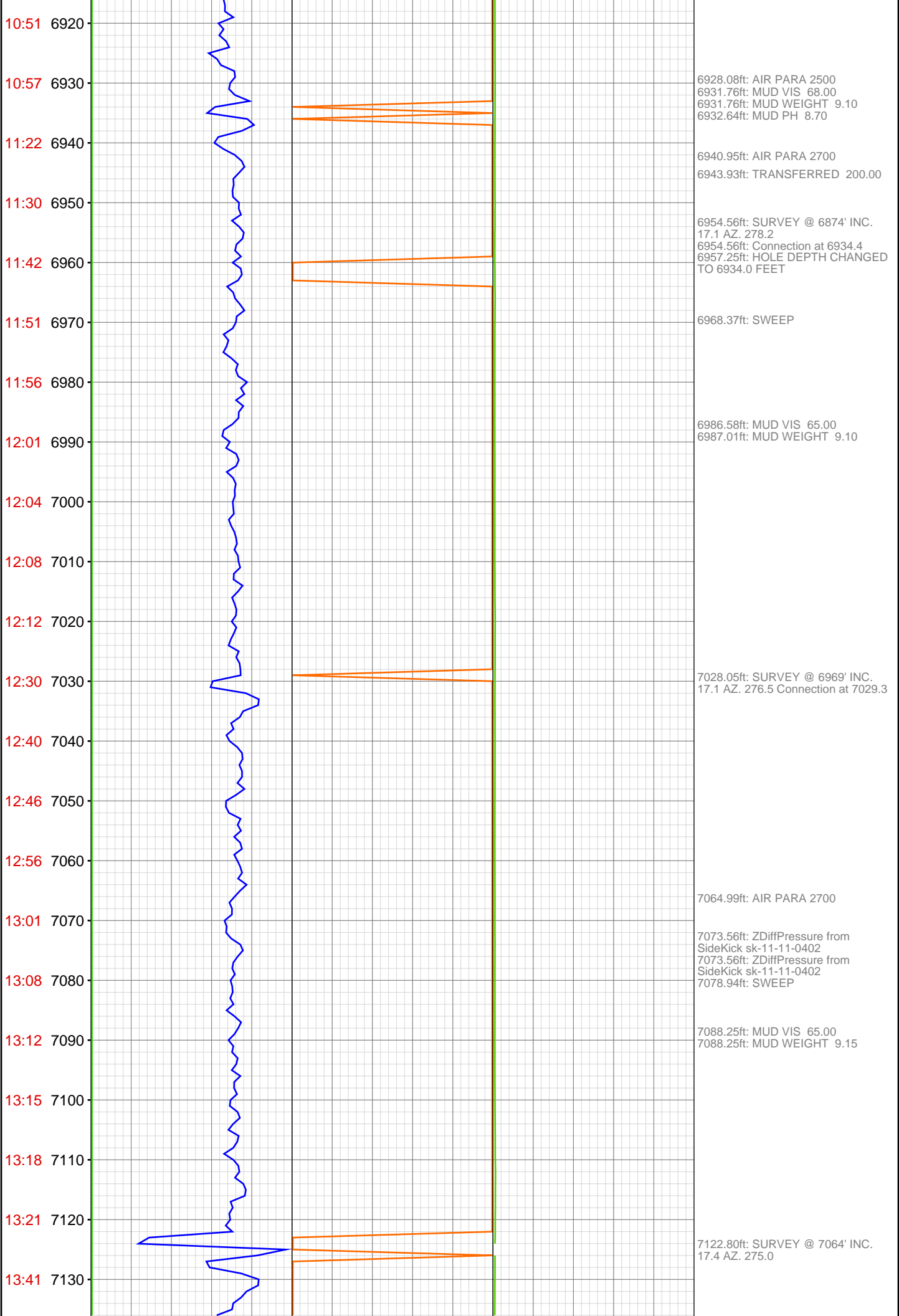


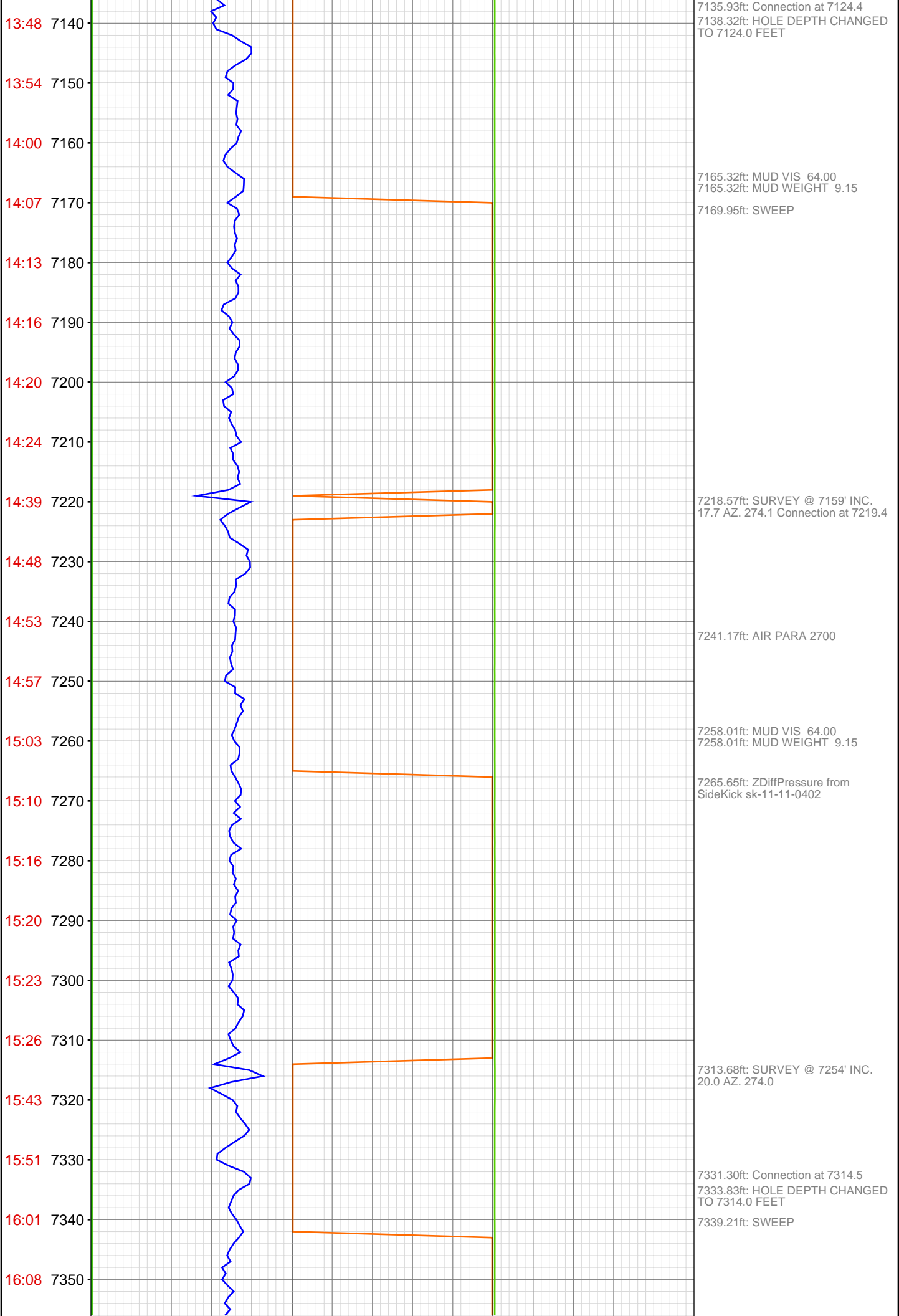


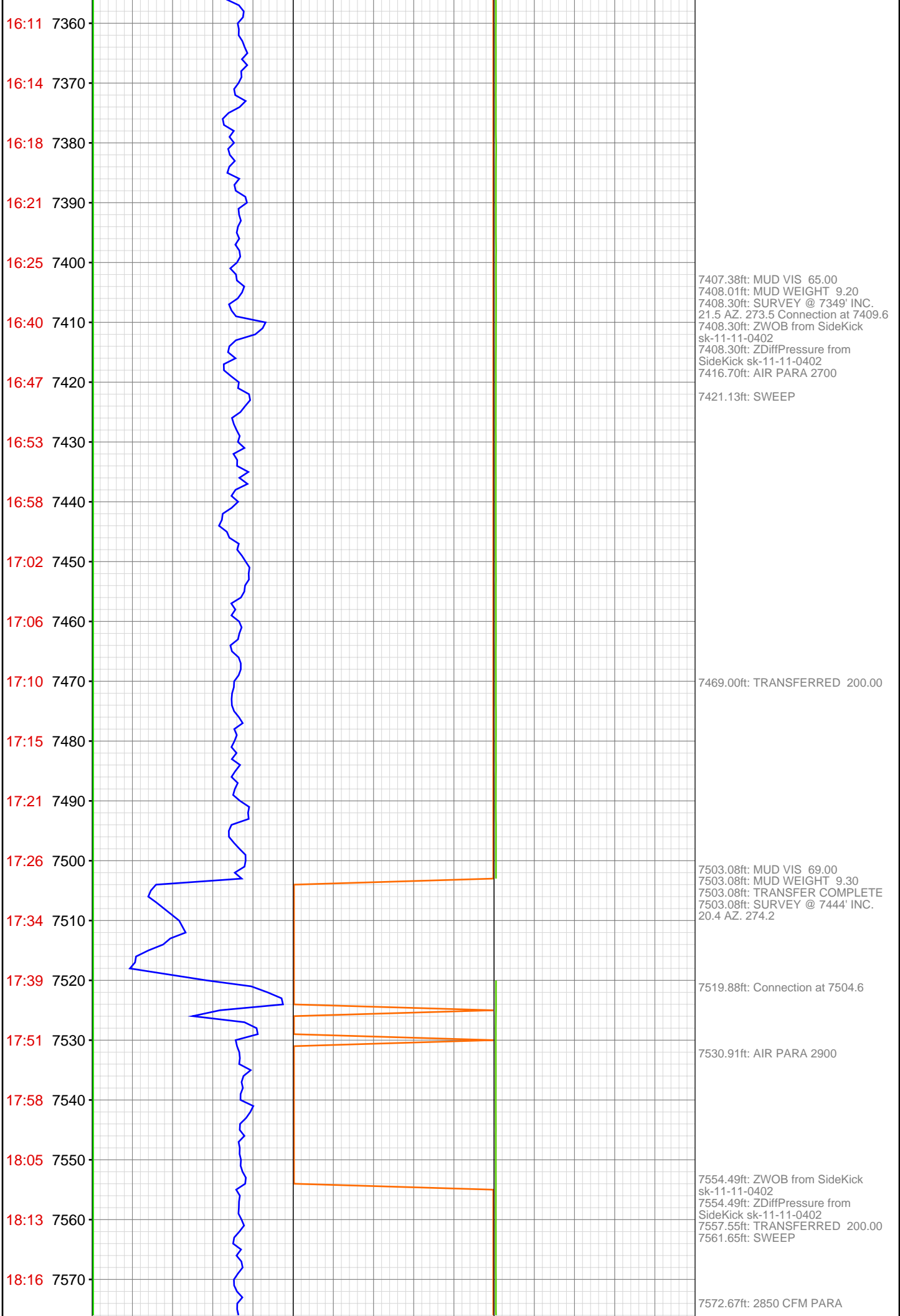


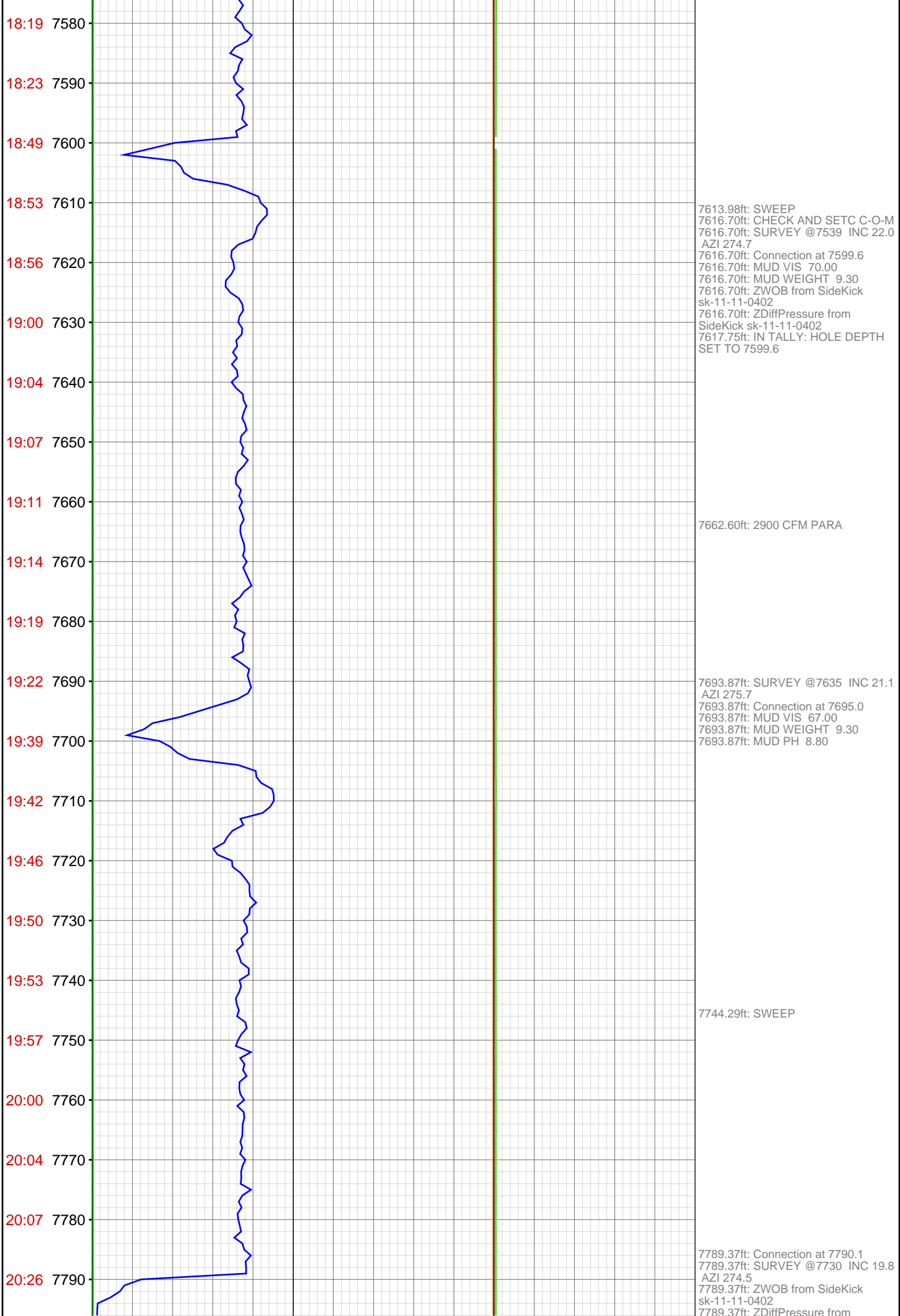


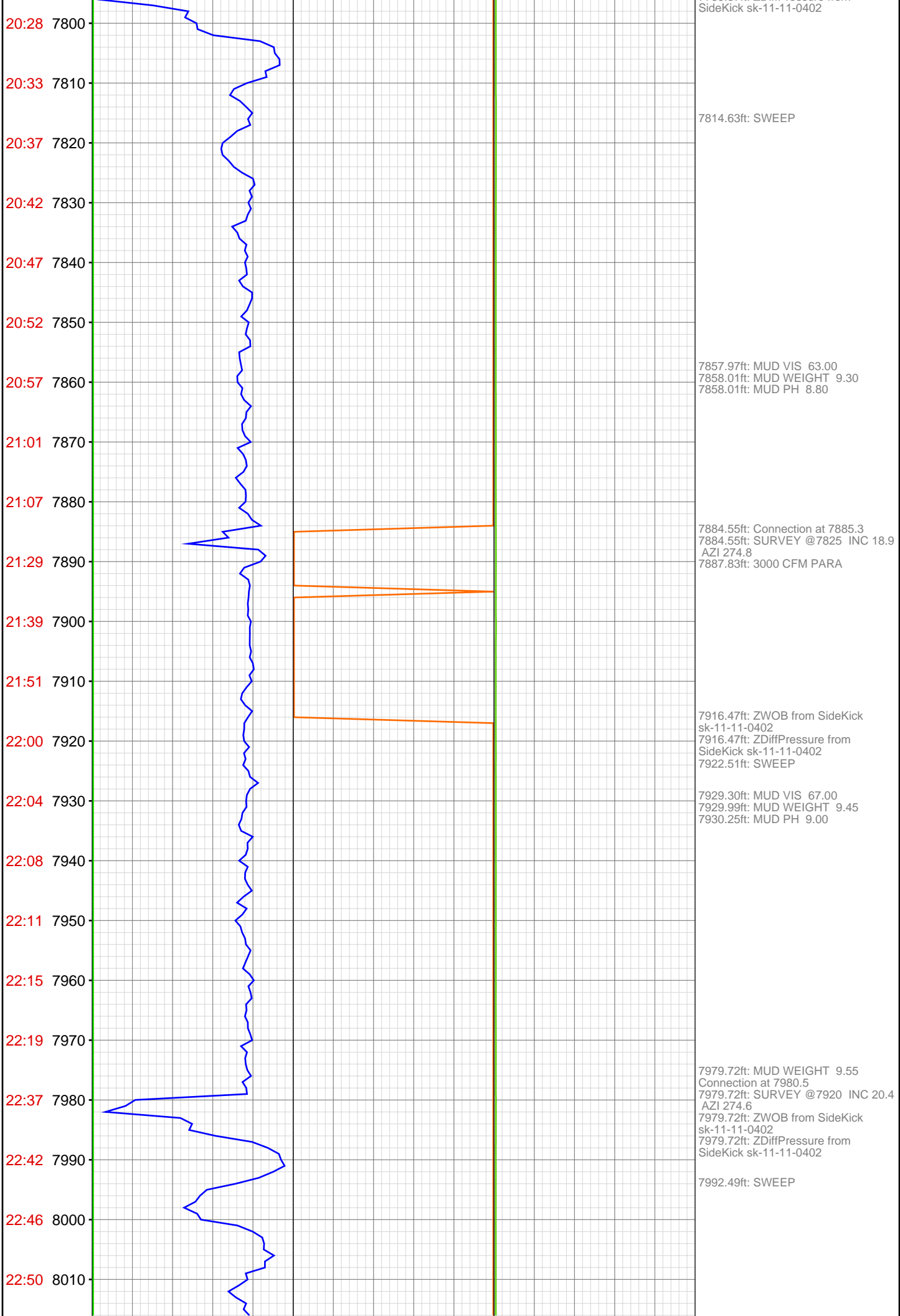




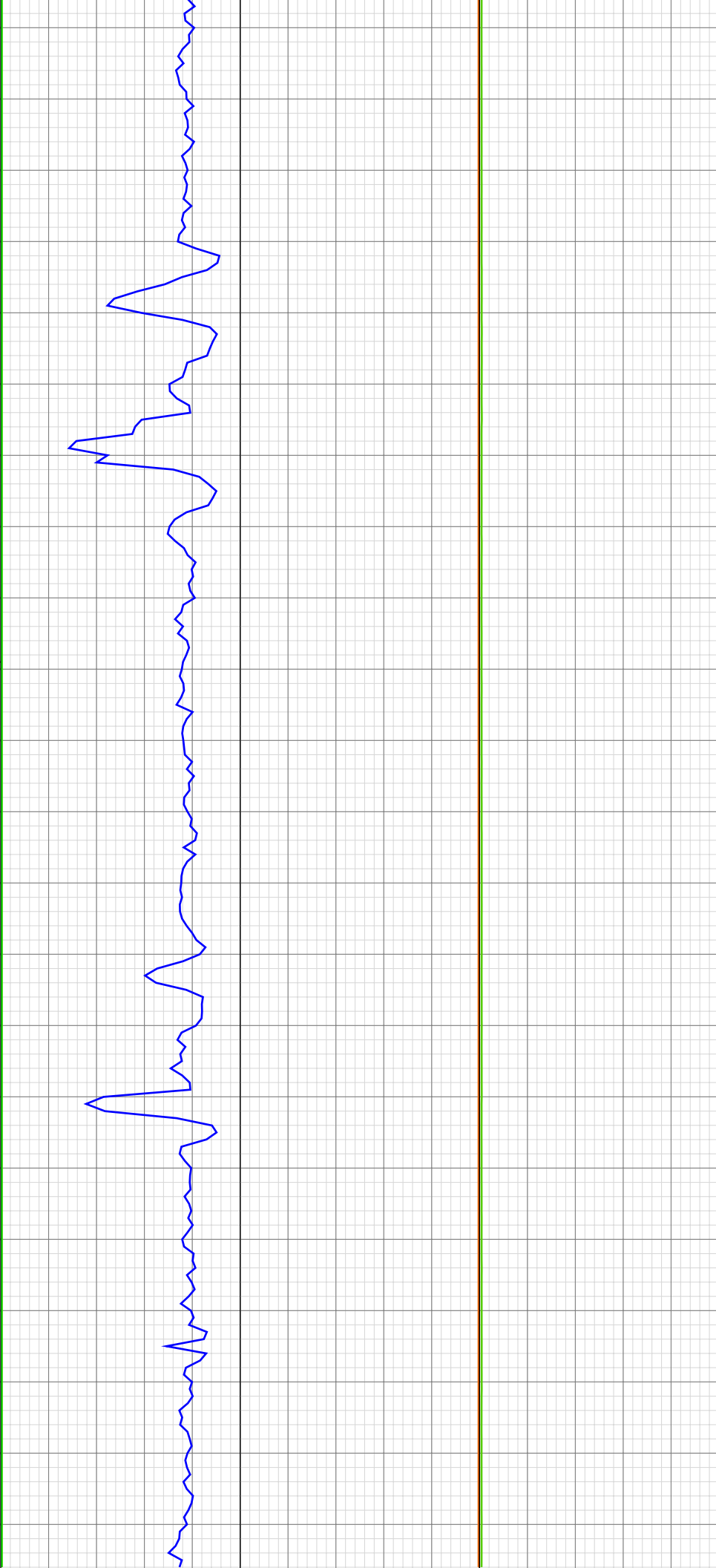




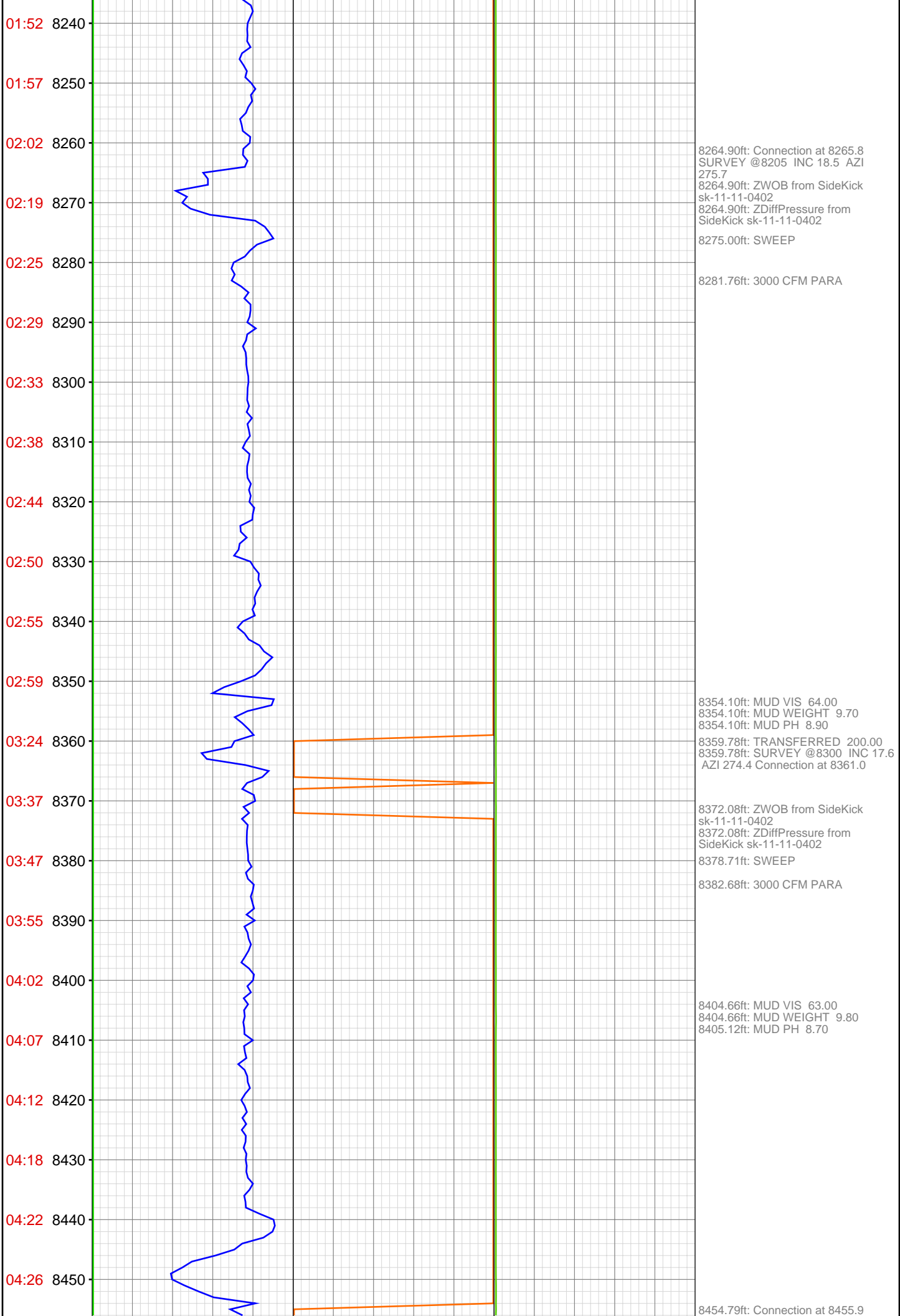


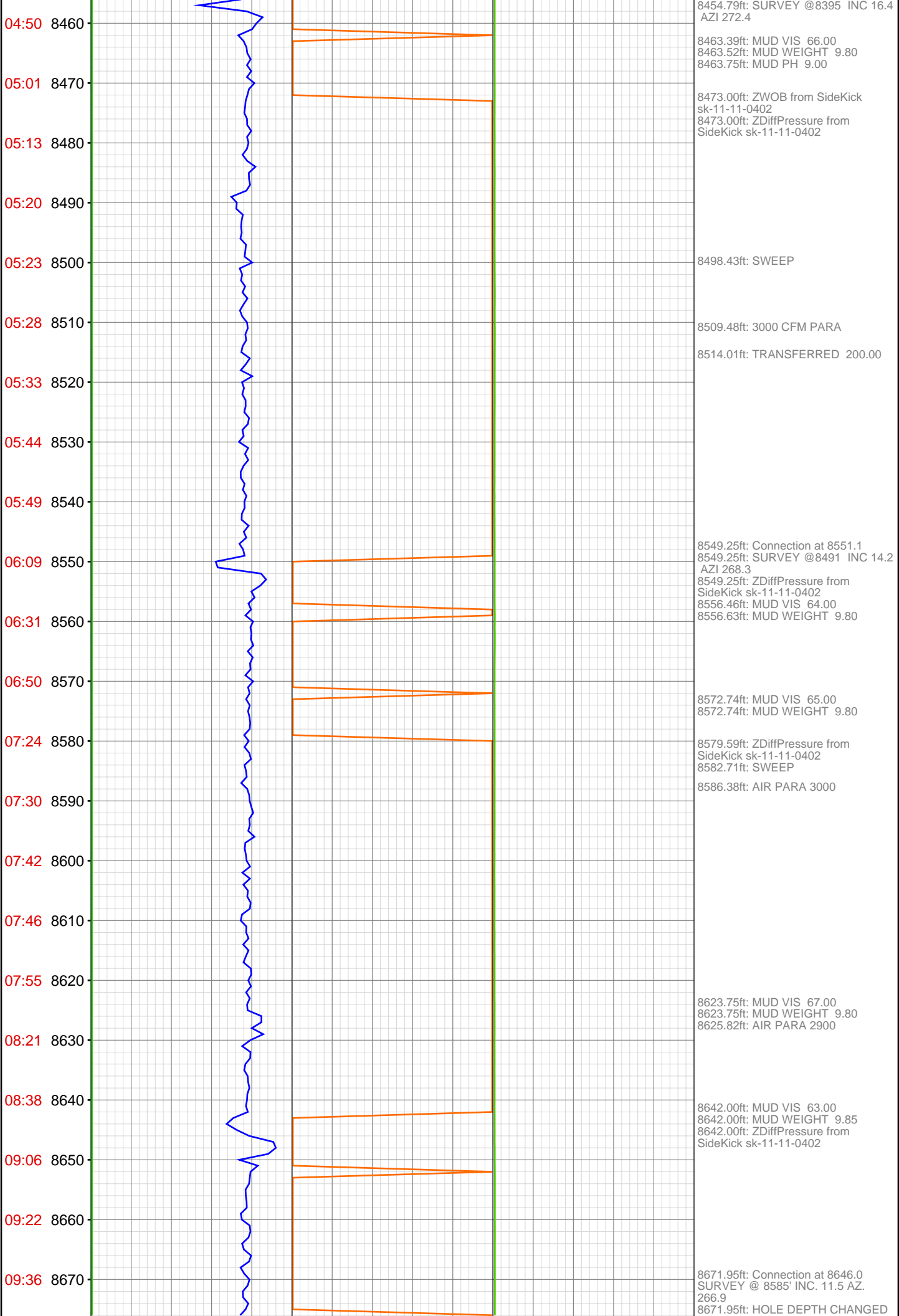


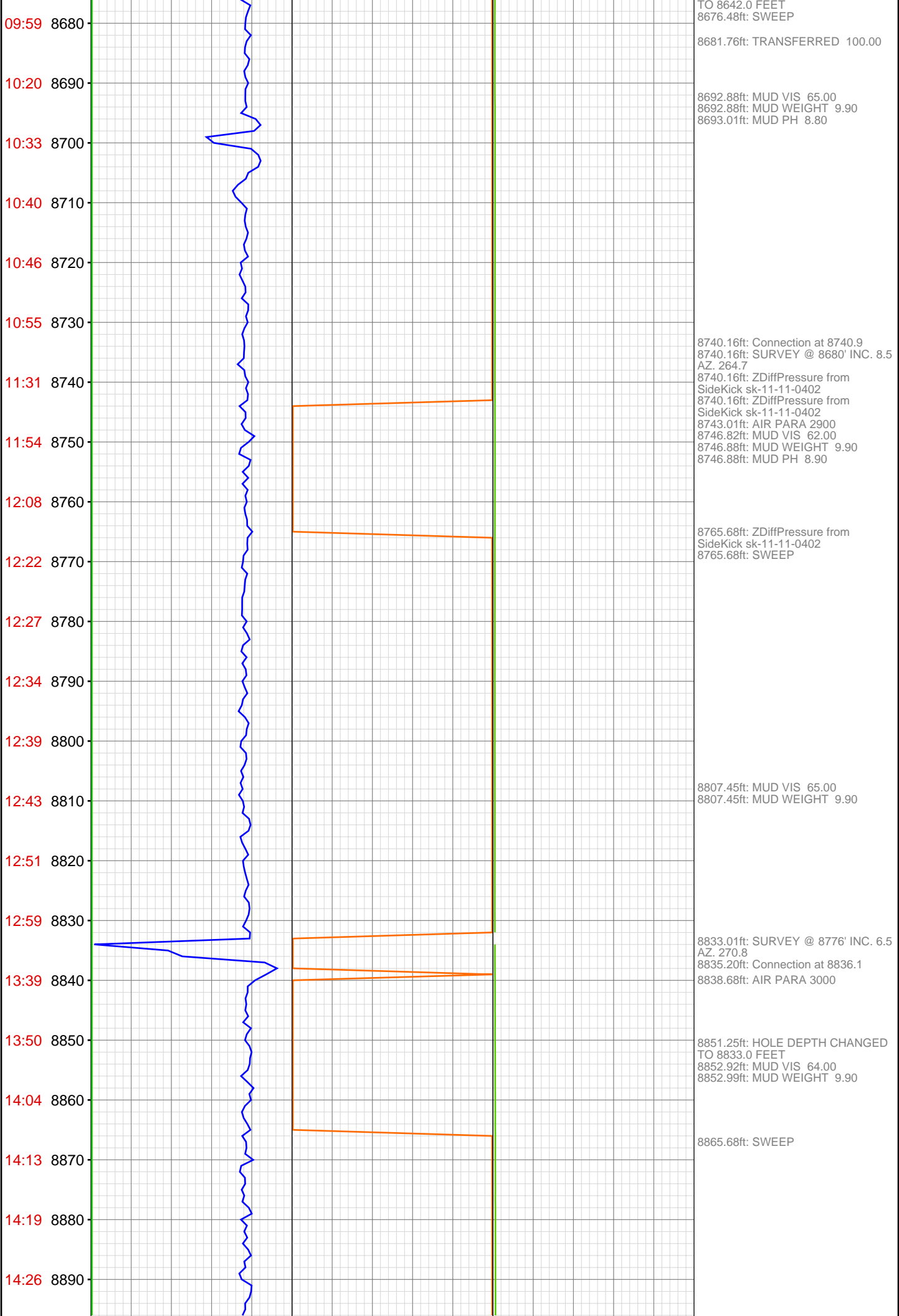
22:55 8020
23:01 8030
23:11 8040
23:15 8050
23:21 8060
23:26 8070
23:44 8080
23:50 8090
23:55 8100
Feb 02, 2013
00:00 8110
00:05 8120
00:10 8130
00:15 8140
00:20 8150
00:27 8160
00:47 8170
00:59 8180
01:09 8190
01:21 8200
01:37 8210
01:42 8220
01:49 8230



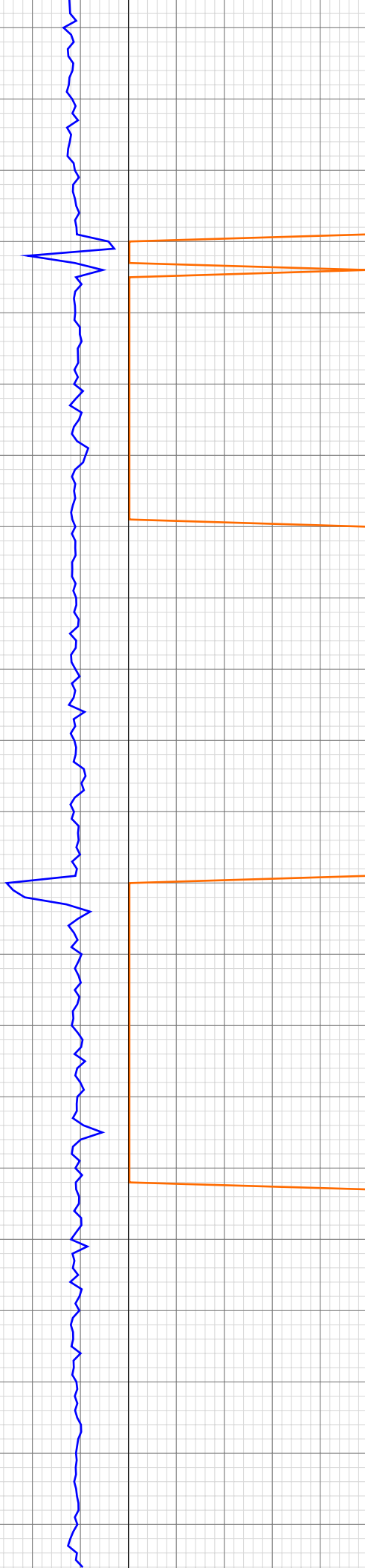
8032.97ft: PUMPING CATCH TANK INTO PITS
8039.01ft: 3000 CFM PARA
8055.12ft: MUD VIS 65.00
8055.12ft: MUD WEIGHT 9.55
8055.41ft: MUD PH 9.10
8074.84ft: Connection at 8075.5
8074.84ft: SURVEY @8015 INC 19.9 AZI 274.5
8074.84ft: ZWOB from SideKick sk-11-11-0402
8074.84ft: ZDiffPressure from SideKick sk-11-11-0402
8081.30ft: SWEEP
8104.95ft: AIR DRILLERS FUEL AT 71 INCHES 8050 GAL. USED 1961 GAL. 3000 CFM PARA
8159.84ft: MUD VIS 65.00
8160.01ft: MUD WEIGHT 9.60
8160.07ft: MUD PH 9.00
8169.72ft: SURVEY @8110 INC 19.0 AZI 274.6
8169.72ft: Connection at 8170.8
8169.72ft: ZWOB from SideKick sk-11-11-0402
8169.72ft: ZDiffPressure from SideKick sk-11-11-0402
8173.29ft: SWEEP
8180.15ft: MUD VIS 69.00
8180.15ft: MUD WEIGHT 9.60
8180.38ft: MUD PH 8.80







14:29 8900
14:33 8910
14:36 8920
15:03 8930
15:20 8940
15:29 8950
15:42 8960
15:54 8970
16:05 8980
16:14 8990
16:20 9000
16:28 9010
17:20 9020
17:34 9030
17:51 9040
18:07 9050
18:22 9060
18:34 9070
18:44 9080
18:52 9090
19:00 9100
19:08 9110



8926.08ft: MUD VIS 65.00
8926.08ft: MUD WEIGHT 9.90
8926.25ft: MUD PH 8.90
8929.76ft: SURVEY @ 8871' INC. 5.2
AZ. 269.1 Connection at 8931.1

8972.93ft: SWEEP

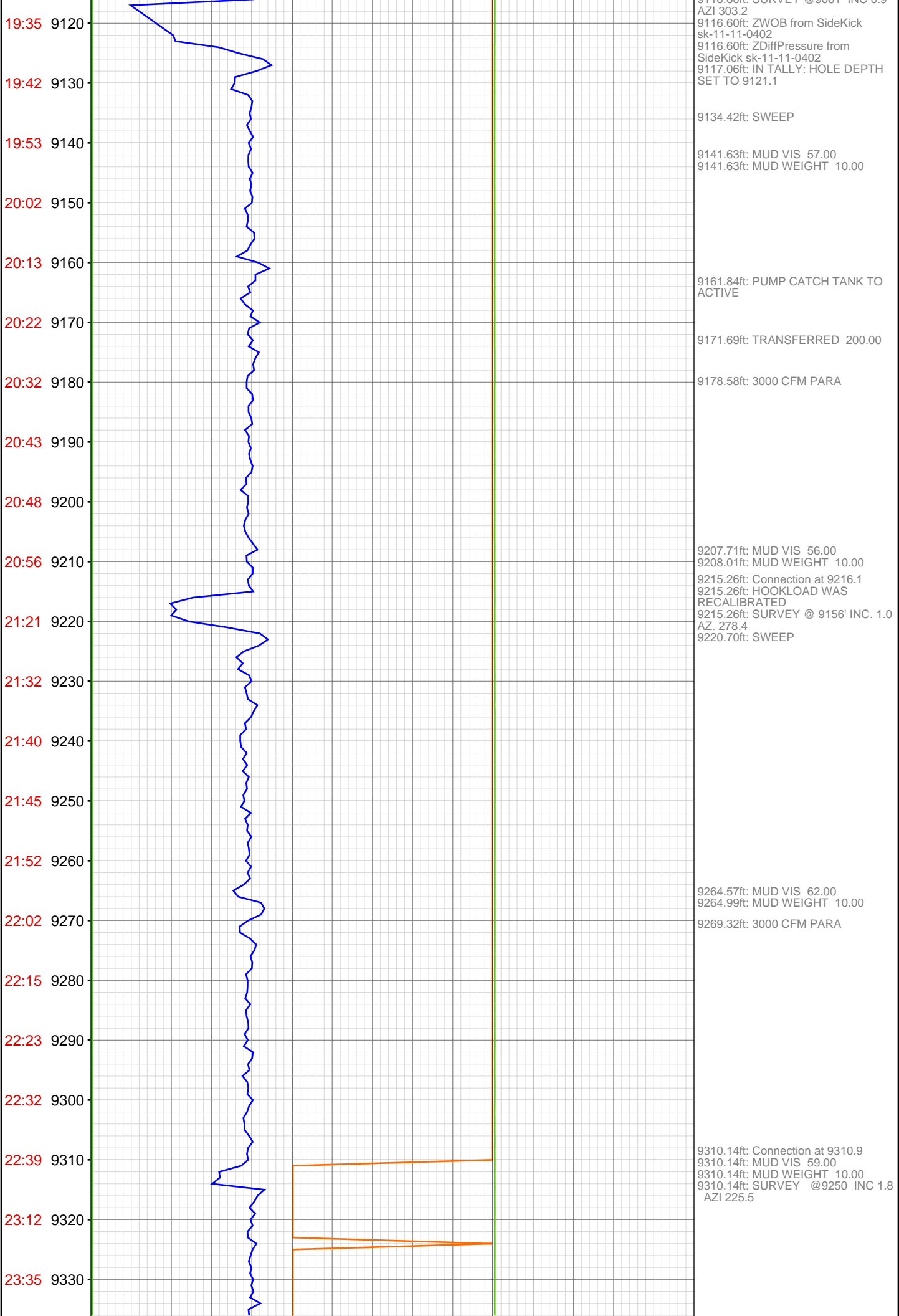
8993.21ft: MUD VIS 62.00
8993.21ft: MUD WEIGHT 9.90
8993.54ft: MUD PH 8.90

9020.37ft: AIR PARA 3000
9024.84ft: B.O.P DRILL@9025' RIG
SERVICE
9035.43ft: MUD VIS 68.00
9036.48ft: SURVEY @ 8965' INC. 3.3
AZ. 270.1
9036.48ft: Connection at 9025.9
9036.48ft: HOLE DEPTH CHANGED
TO 9020.0 FEET
9036.48ft: ZDiffPressure from
SideKick sk-11-11-0402
9037.01ft: MUD WEIGHT 9.95
9037.30ft: MUD PH 8.80

9057.22ft: MUD VIS 55.00
9057.45ft: MUD WEIGHT 10.00
9057.45ft: MUD PH 8.80
9062.30ft: ZDiffPressure from
SideKick sk-11-11-0402
9062.30ft: ZWOB from SideKick
sk-11-11-0402
9064.37ft: SWEEP

9089.14ft: 3000 CFM PARA

9112.43ft: MUD VIS 58.00
9112.73ft: MUD WEIGHT 10.00
9116.60ft: Connection at 9121.0
9116.60ft: SURVEY @ 9061' INC 0.9



23:55 9340

Feb 03, 2013

00:08 9350

00:19 9360

00:30 9370

00:43 9380

00:52 9390

01:03 9400

01:37 9410

01:52 9420

02:14 9430

02:23 9440

02:35 9450

02:40 9460

02:45 9470

02:50 9480

03:01 9490

03:37 9500

04:15 9510

04:45 9520

04:57 9530

05:03 9540

05:07 9550

9340.65ft: MUD VIS 65.00
9340.95ft: MUD WEIGHT 10.05
9340.95ft: AIR DRILLERS FUEL AT 52 INCHES 5614 GAL. USED 2436 GAL.
9341.83ft: 3000 CFM PARA
9352.59ft: ZWOB from SideKick sk-11-11-0402
9352.59ft: ZDiffPressure from SideKick sk-11-11-0402
9353.18ft: SWEEP

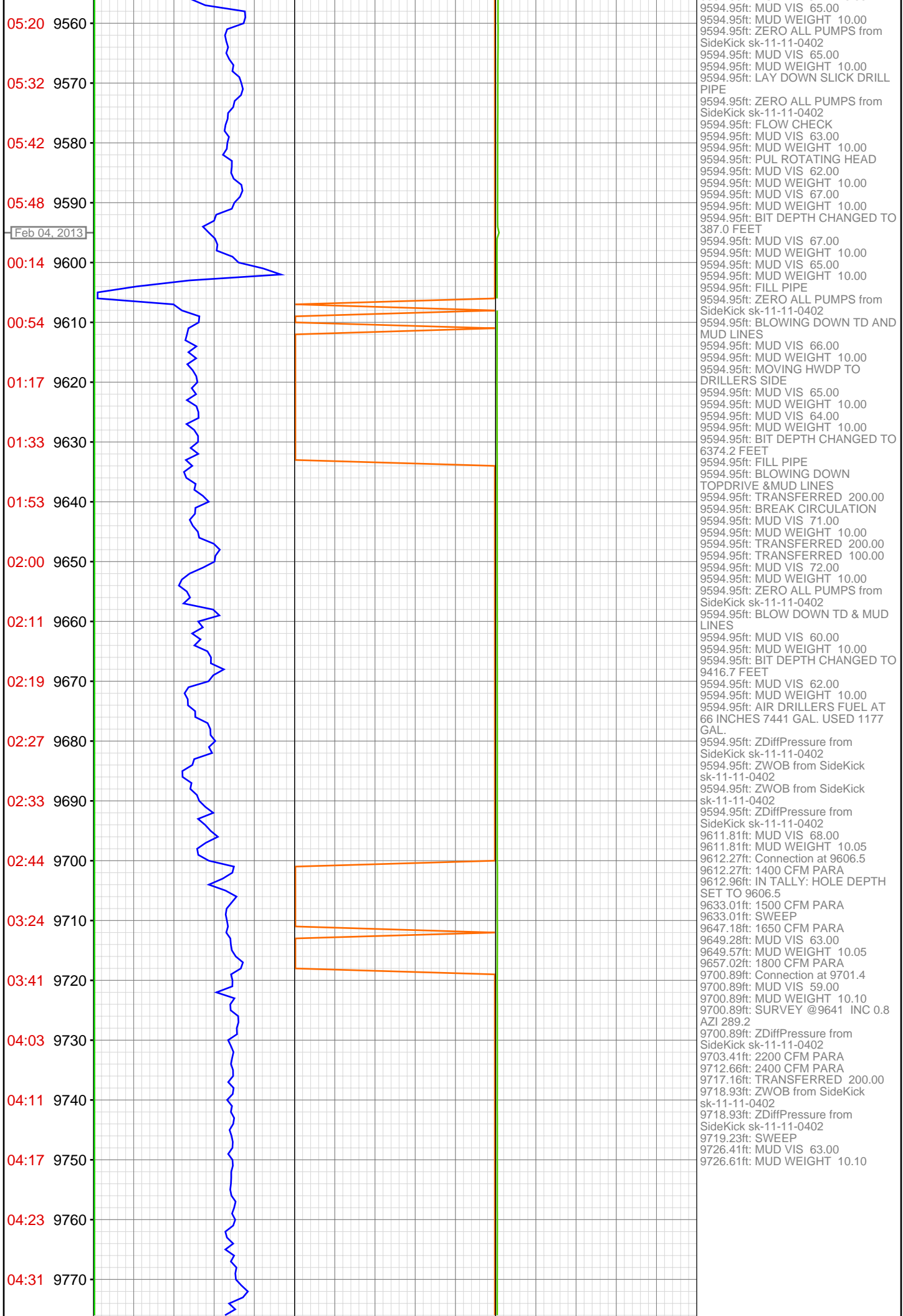
9390.78ft: MUD VIS 61.00
9390.78ft: MUD WEIGHT 10.00

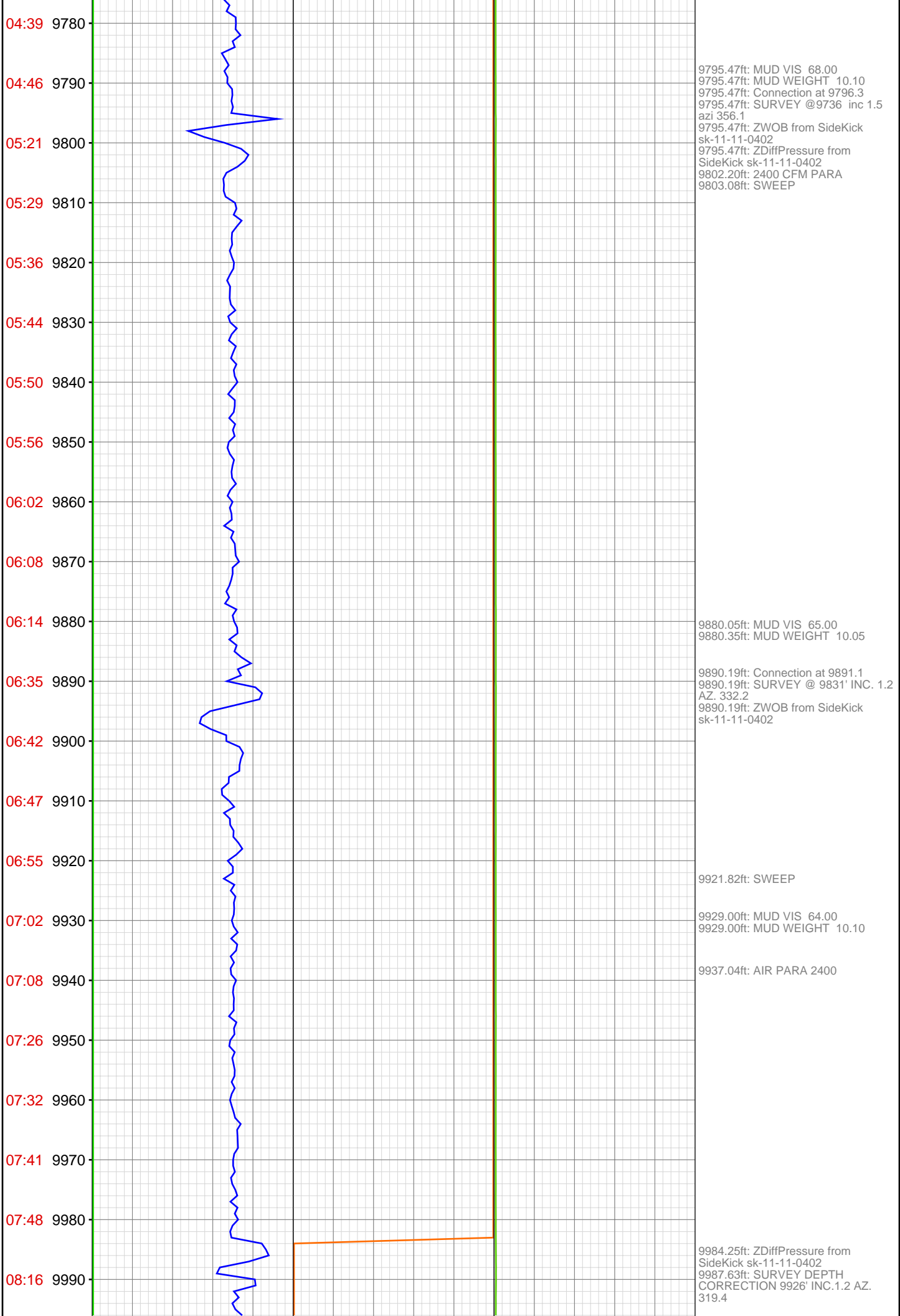
9405.02ft: Connection at 9405.9
9405.02ft: SURVEY @9345 INC 1.1 AZI 218.1
9408.30ft: 3000 CFM PARA

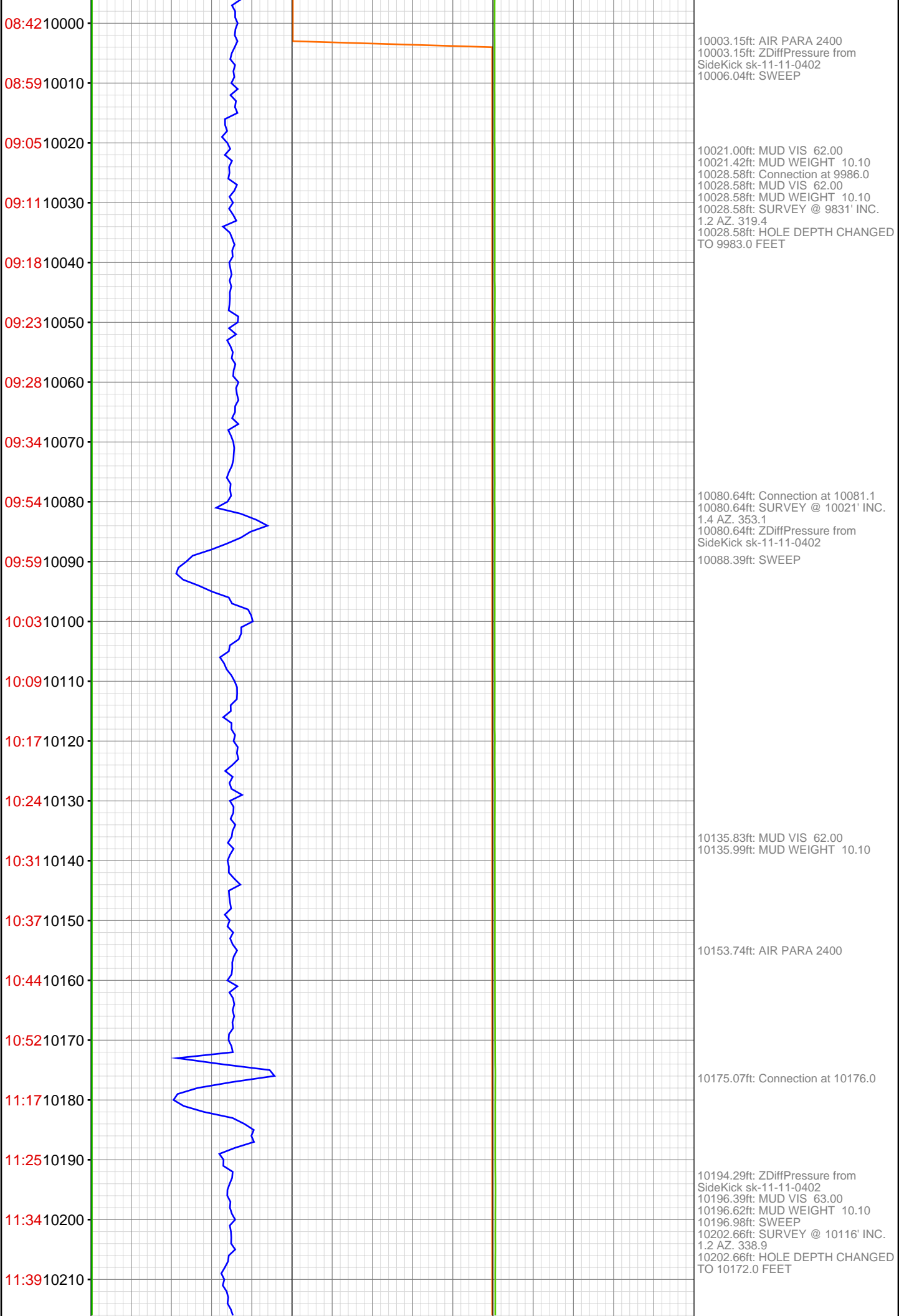
9420.60ft: 10 FOOT FLARE
9421.88ft: MUD VIS 64.00
9421.88ft: MUD WEIGHT 10.05
9424.28ft: 2400 CFM PARA

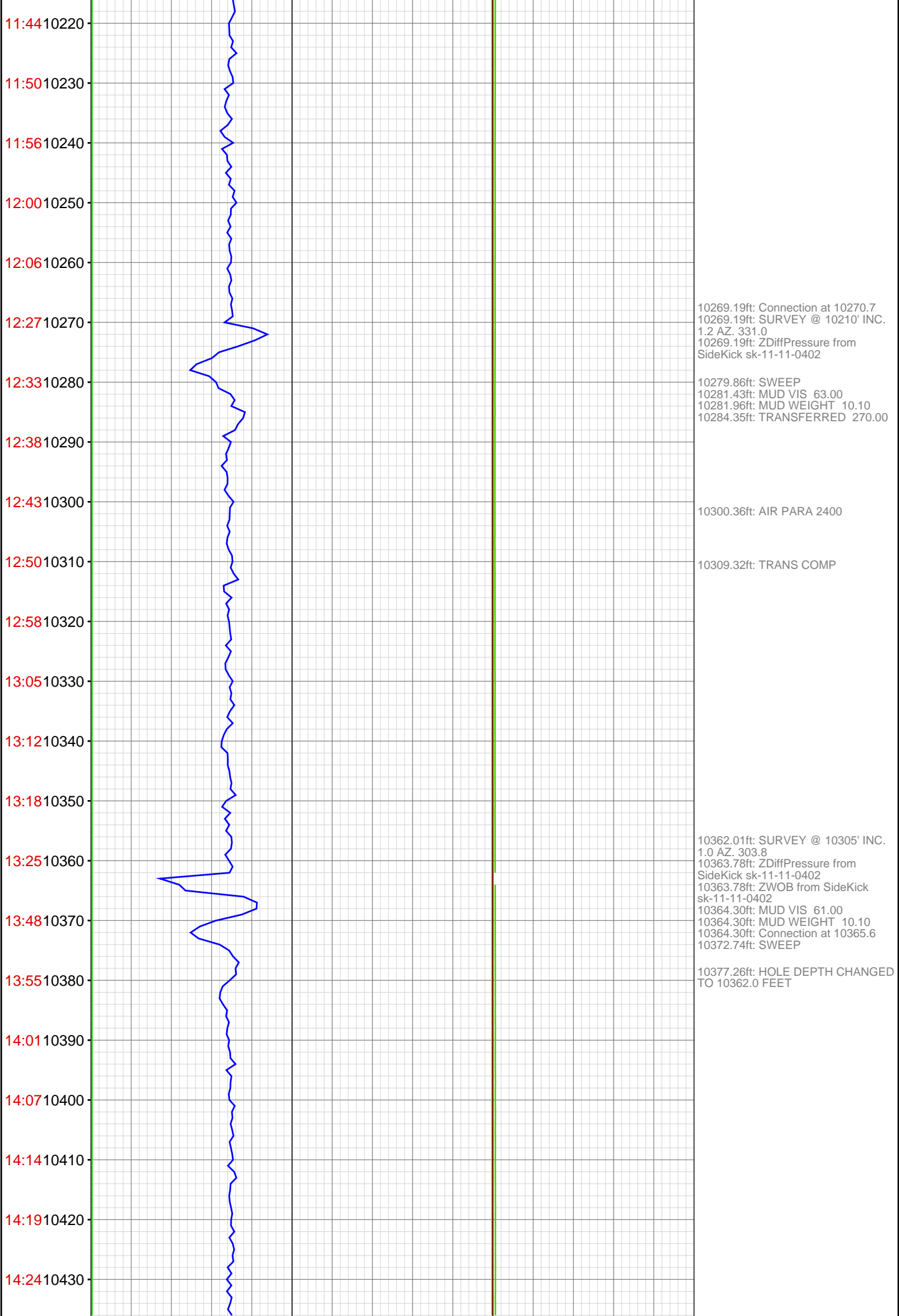
9430.61ft: SWEEP

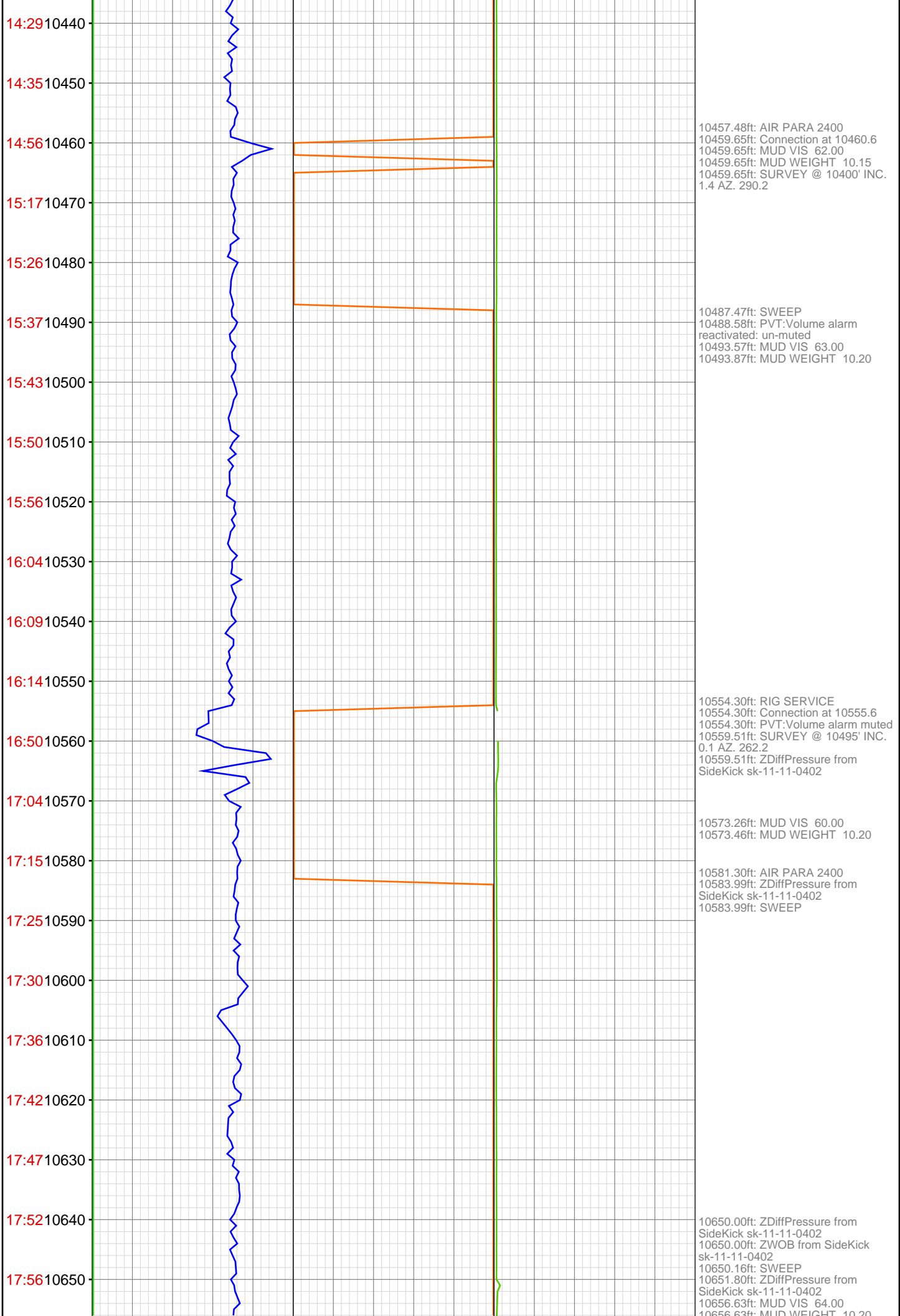
9483.96ft: ZWOB from DHC
9483.96ft: MUD VIS 64.00
9483.96ft: MUD WEIGHT 10.05
9499.84ft: 2000 CFM PARA
9499.84ft: CIRCULATING GAS OUT
9499.84ft: Connection at 9501.2
9504.23ft: SURVEY @9441 INC 0.8 AZI 254.4 SURVEY CORRECTION @9441 INC 0.7 AZI 268.4
9511.09ft: 2000 CFM PARA
9526.02ft: ZWOB from SideKick sk-11-11-0402
9526.02ft: ZDiffPressure from SideKick sk-11-11-0402
9531.23ft: SWEEP
9541.24ft: MUD WEIGHT 10.05
9541.24ft: MUD VIS 74.00
9556.82ft: 2300 CFM PARA
9594.95ft: SWEEP
9594.95ft: MUD VIS 69.00
9594.95ft: MUD WEIGHT 10.05
9594.95ft: TRANSFERRED 300.00
9594.95ft: AIR BYPASSED
9594.95ft: MUD VIS 68.00
9594.95ft: MUD WEIGHT 10.05
9594.95ft: SURVEY @ 9536' INC. 0.5 AZ. 213.7
9594.95ft: ZDIFF from DHC
9594.95ft: TRIP OUT FOR BIT & MOTOR
9594.95ft: FLOW CHECK
9594.95ft: NO FLOW
9594.95ft: MUD VIS 65.00
9594.95ft: MUD WEIGHT 10.05
9594.95ft: ZERO ALL PUMPS from SideKick sk-11-11-0402
9594.95ft: ZERO ALL PUMPS from SideKick sk-11-11-0402
9594.95ft: MUD VIS 64.00
9594.95ft: MUD WEIGHT 10.00

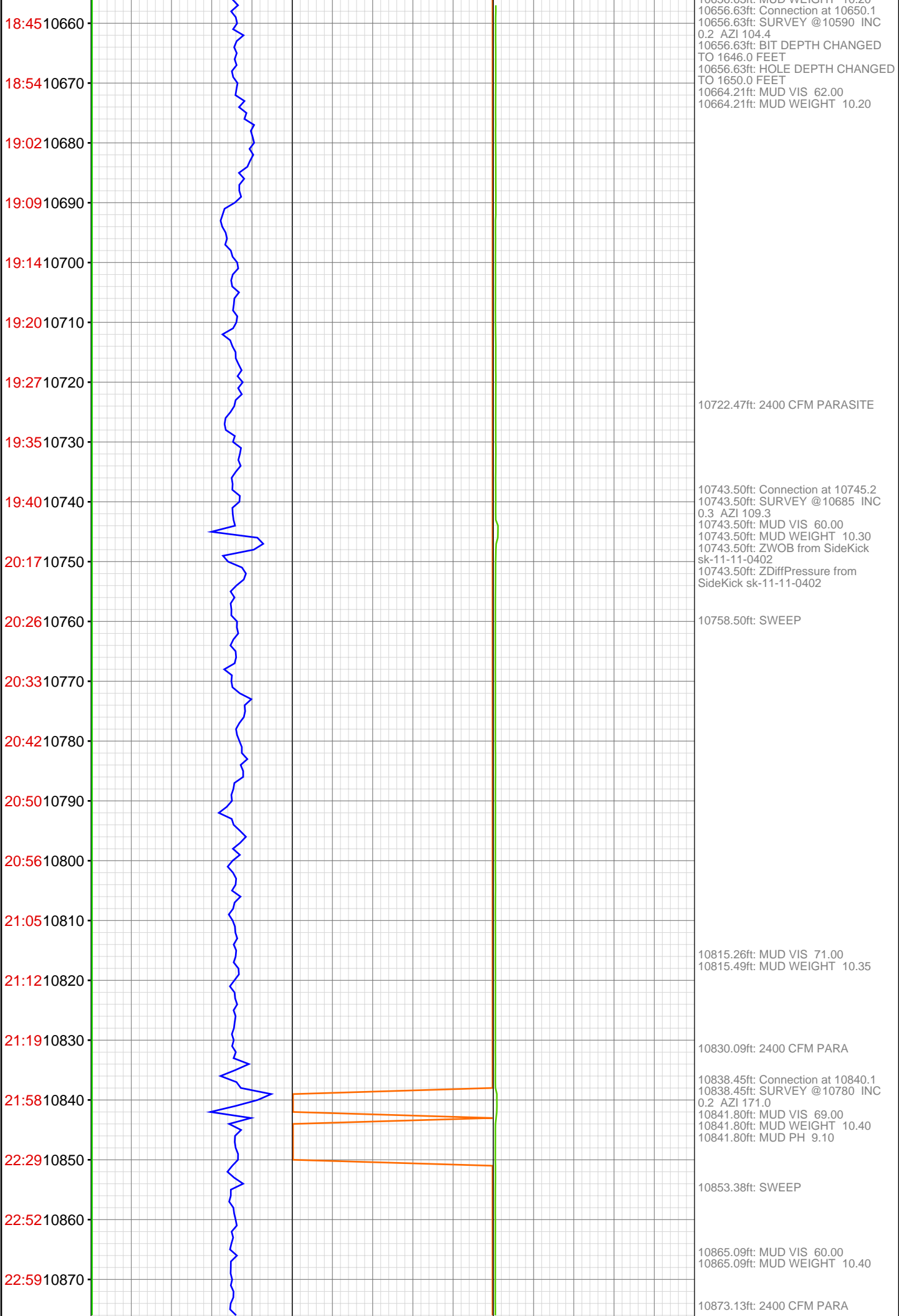


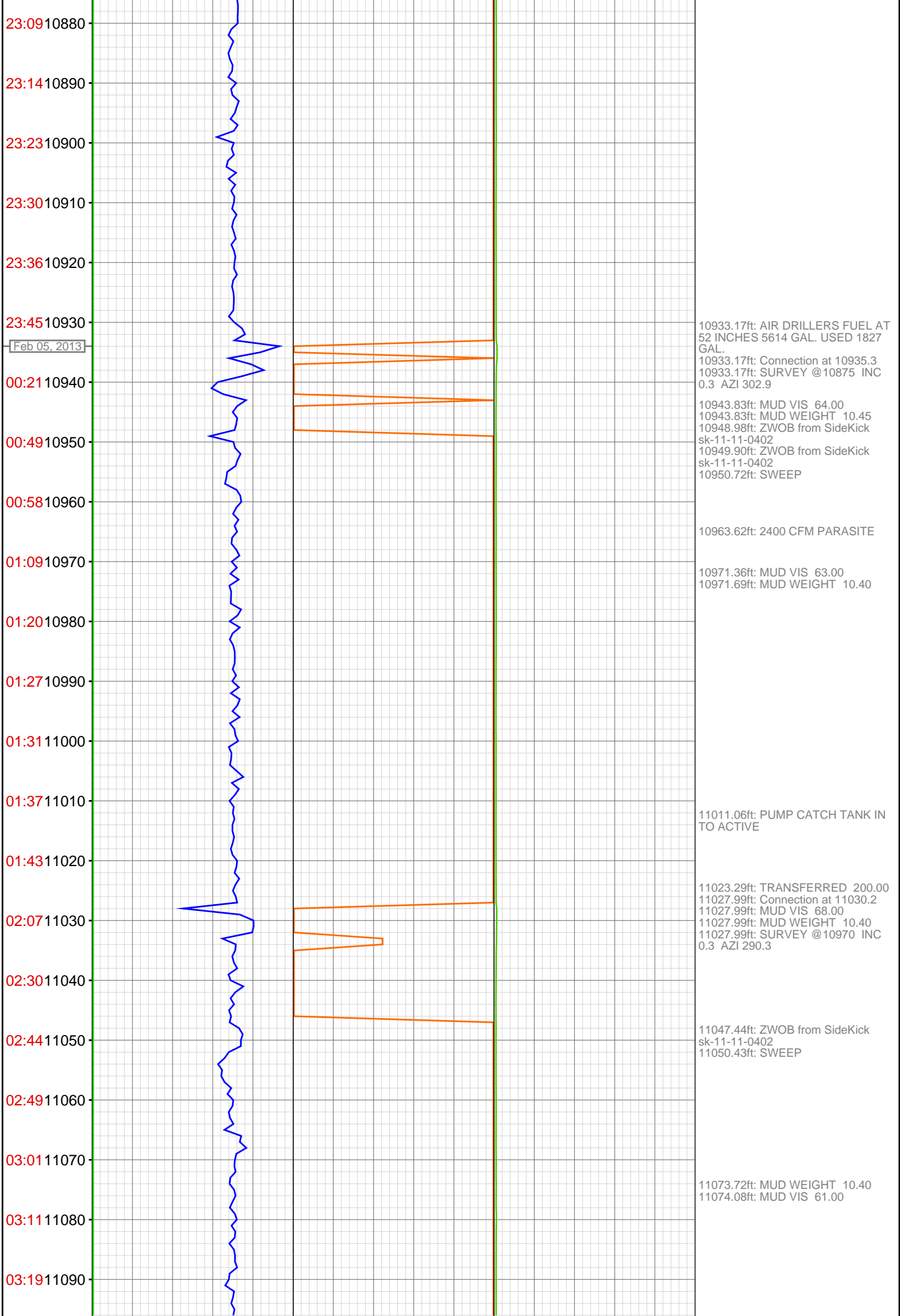


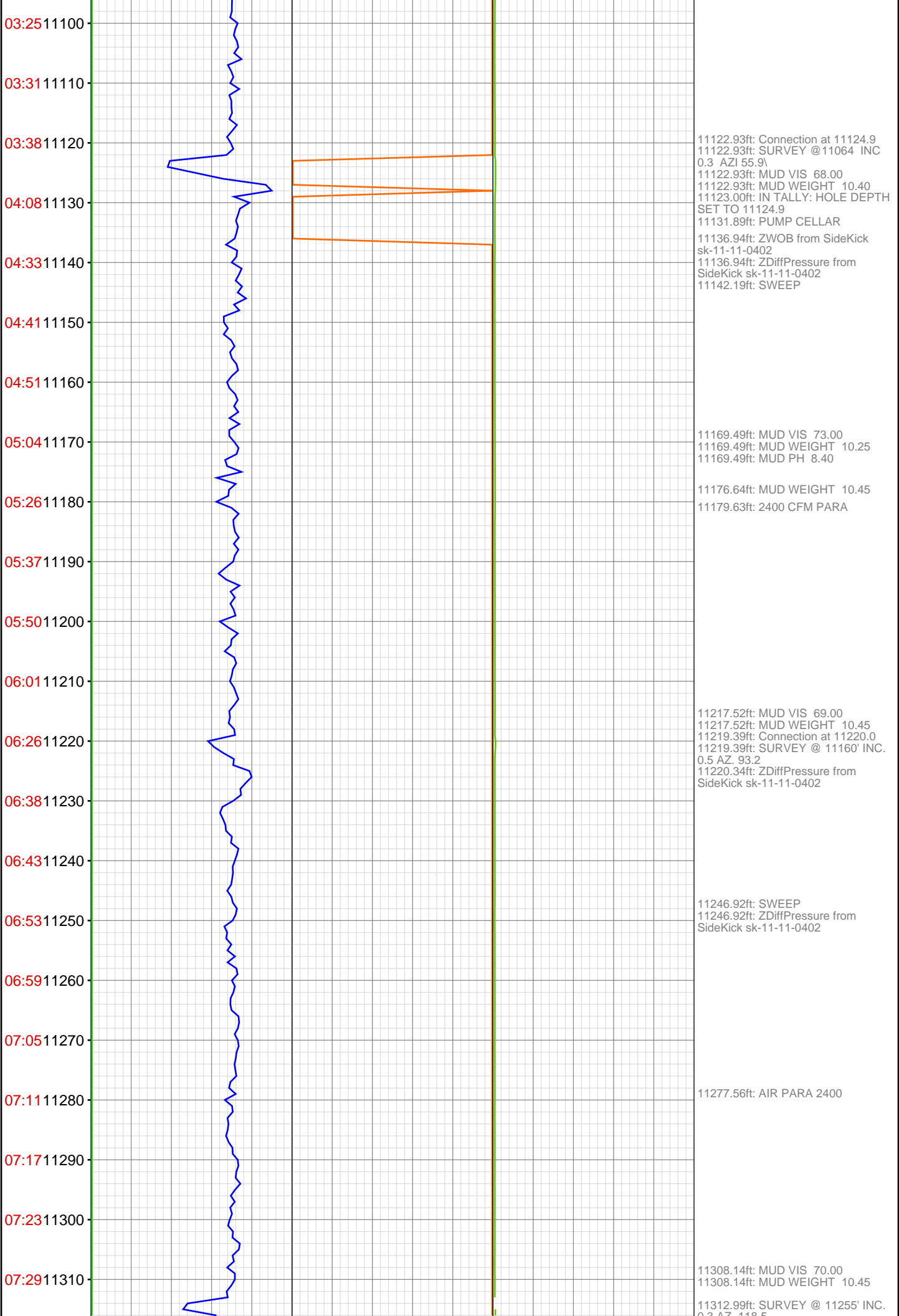


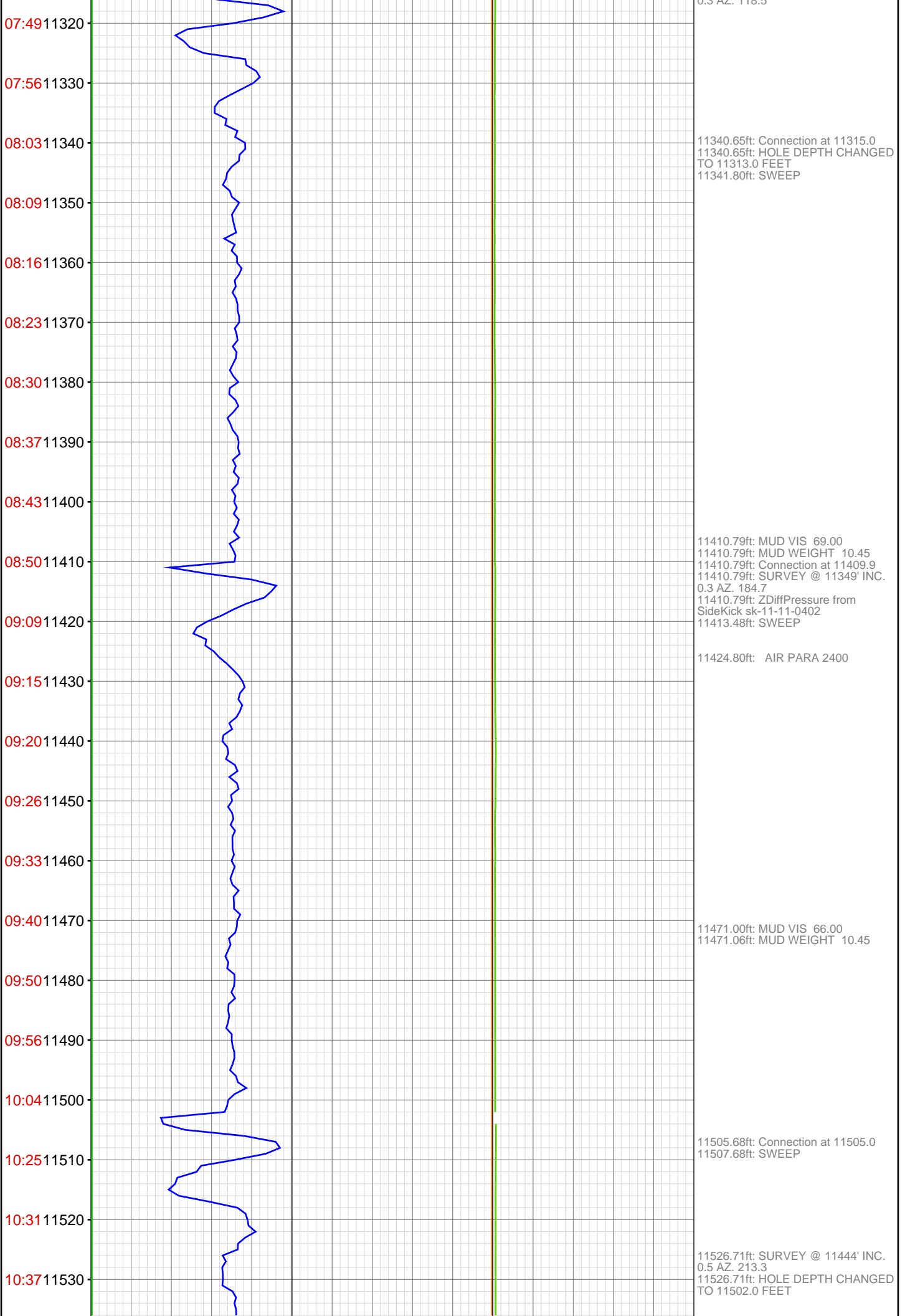


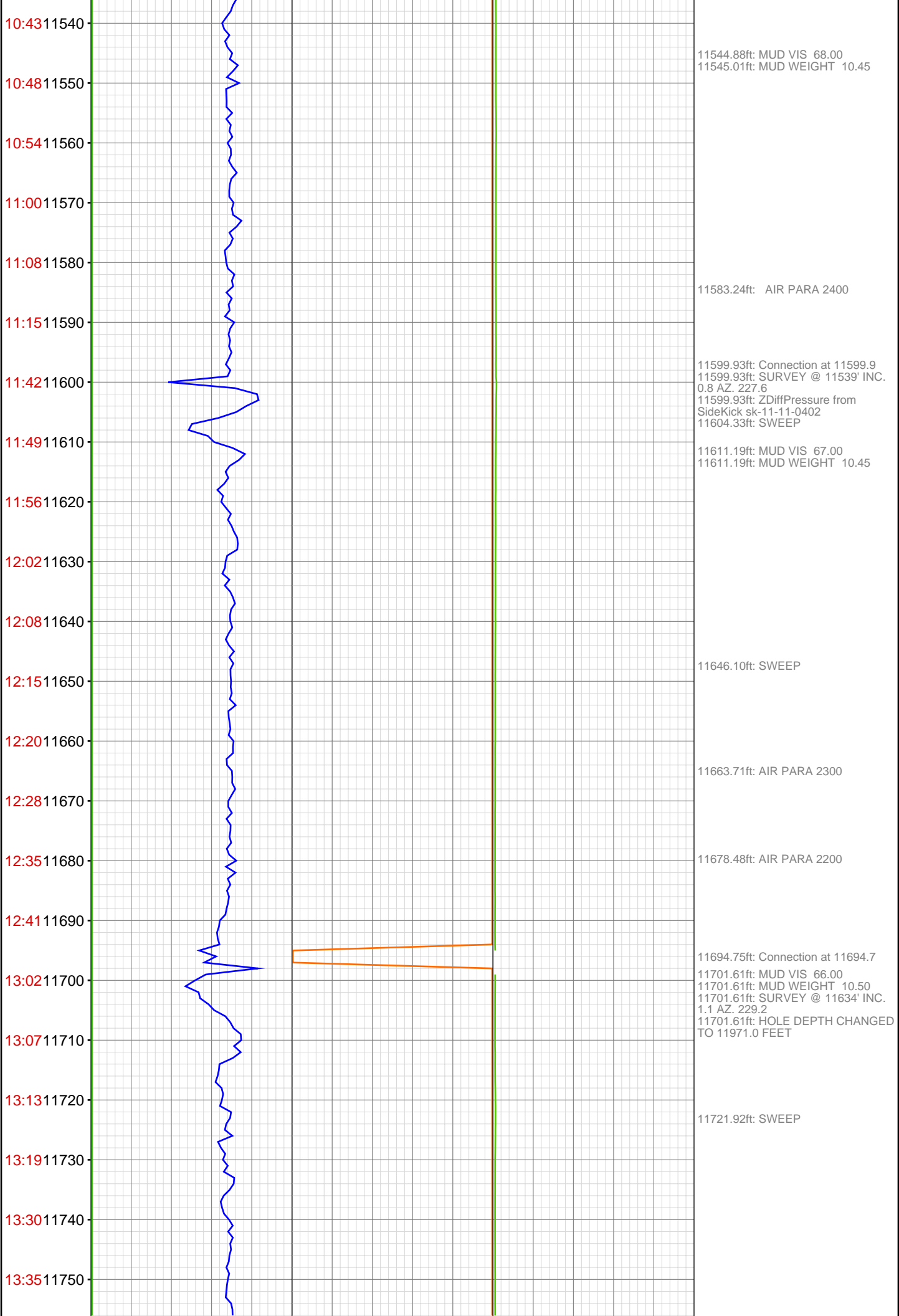


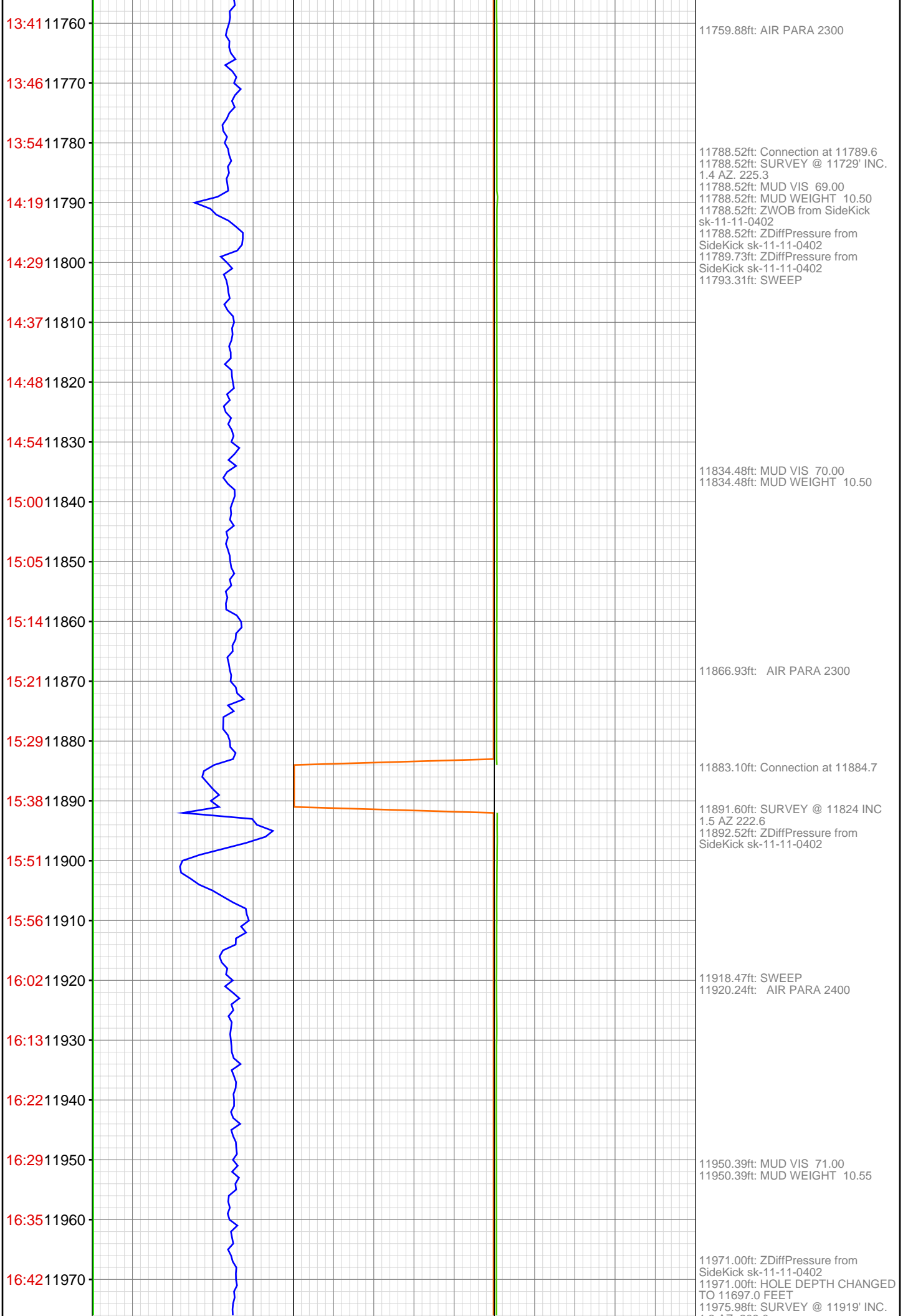


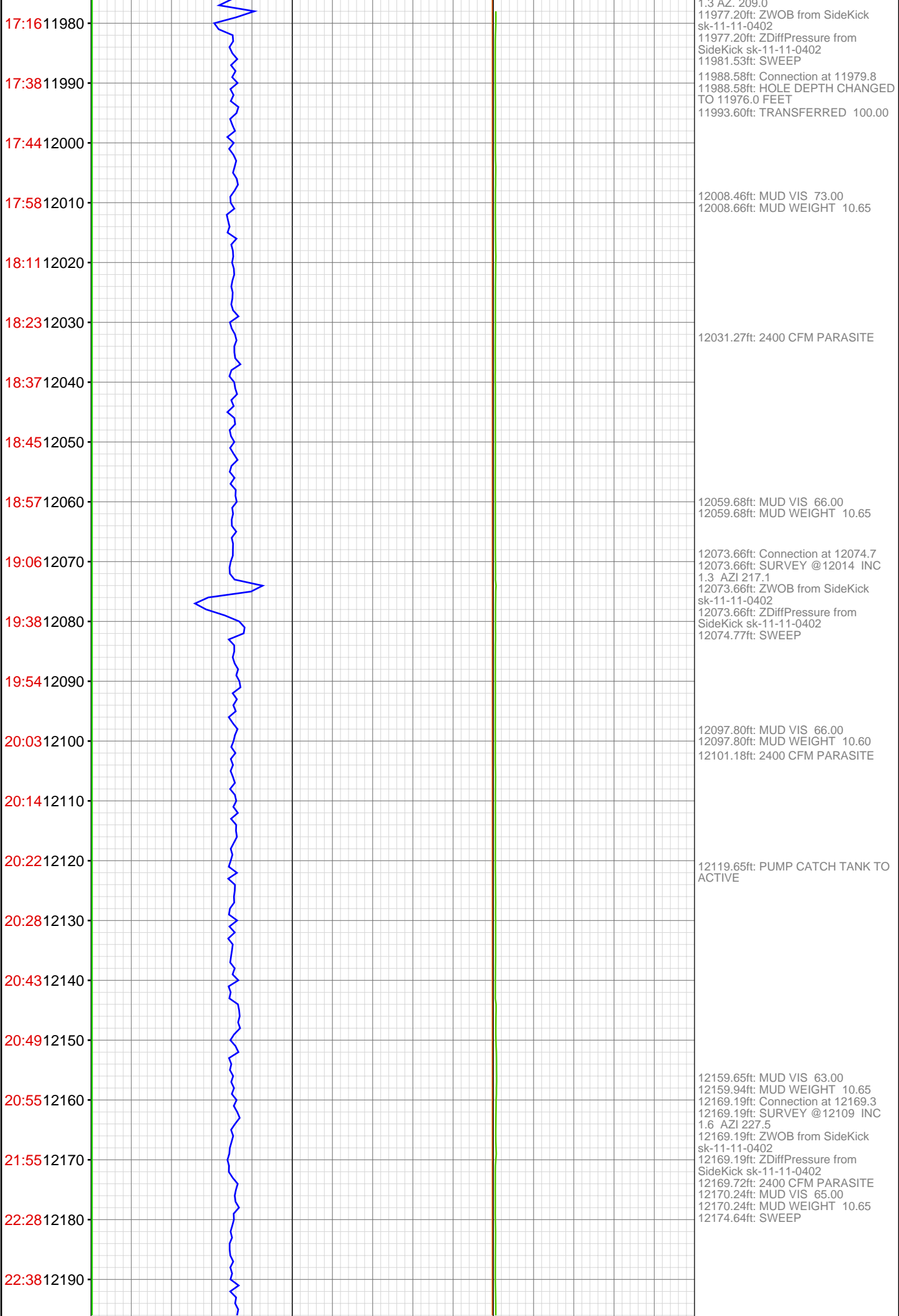


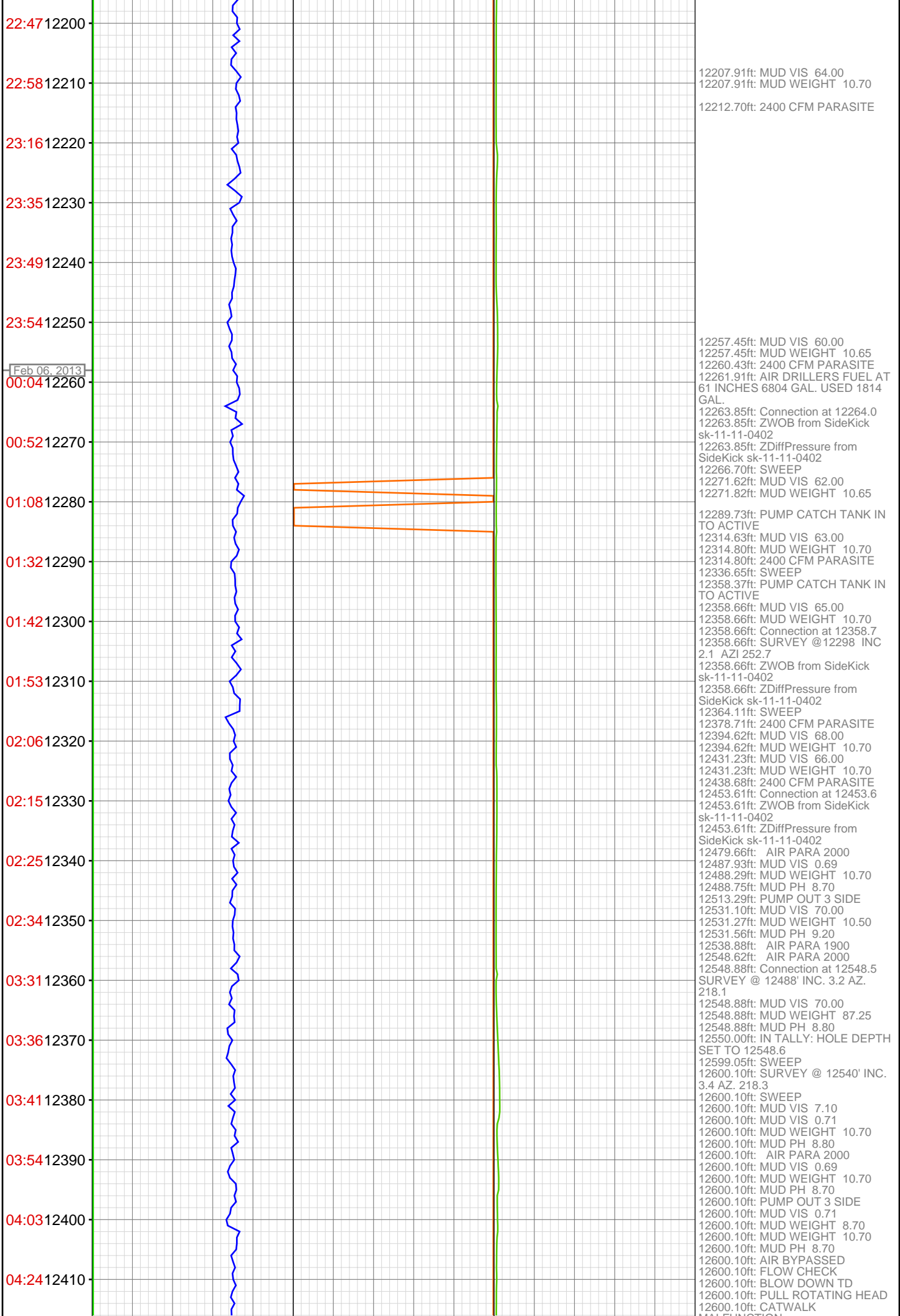


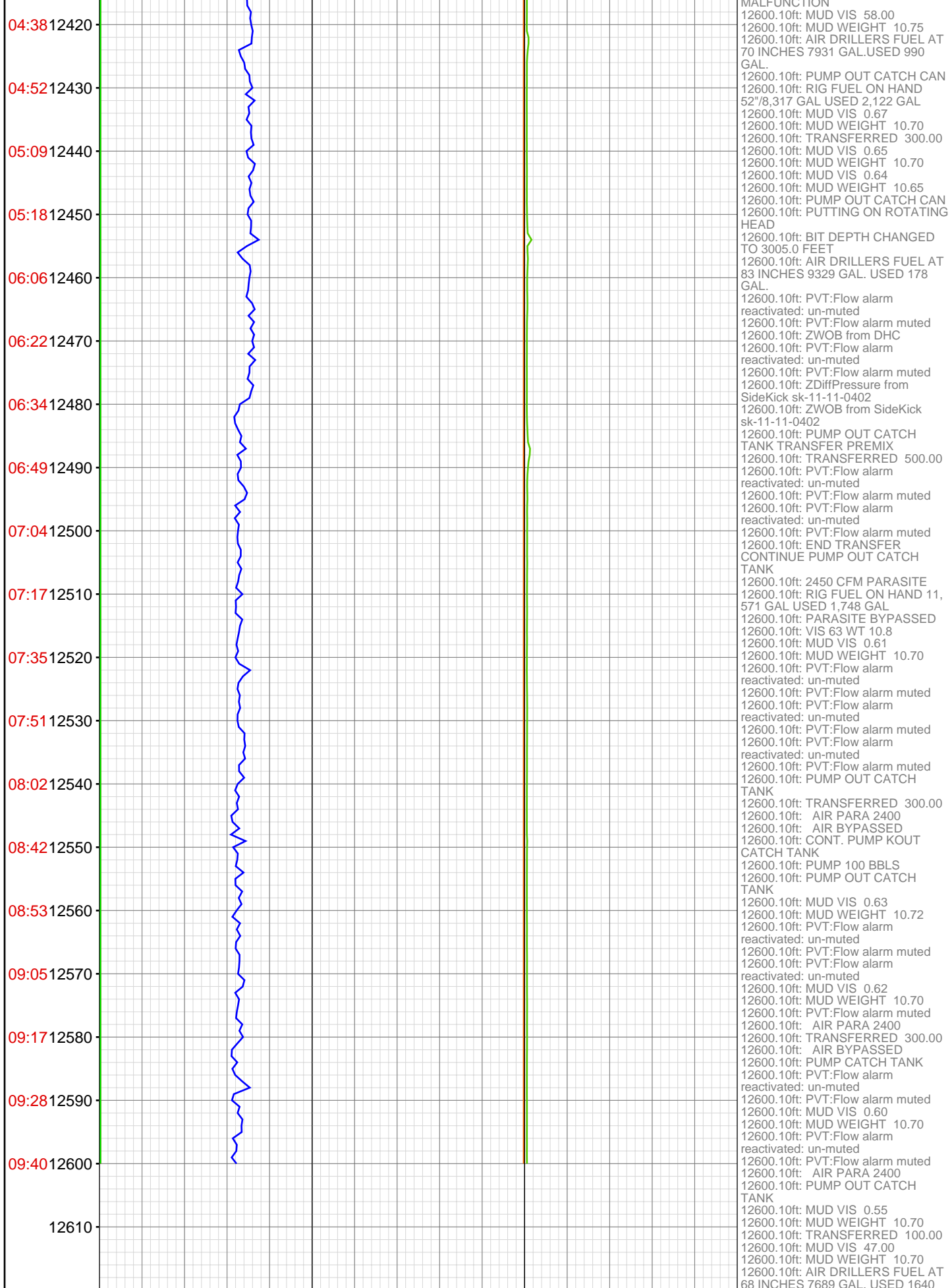












MALFUNCTION
12600.10ft: MUD VIS 58.00
12600.10ft: MUD WEIGHT 10.75
12600.10ft: AIR DRILLERS FUEL AT 70 INCHES 7931 GAL. USED 990 GAL.
12600.10ft: PUMP OUT CATCH CAN
12600.10ft: RIG FUEL ON HAND 52"/8.317 GAL USED 2,122 GAL
12600.10ft: MUD VIS 0.67
12600.10ft: MUD WEIGHT 10.70
12600.10ft: TRANSFERRED 300.00
12600.10ft: MUD VIS 0.65
12600.10ft: MUD WEIGHT 10.70
12600.10ft: MUD VIS 0.64
12600.10ft: MUD WEIGHT 10.65
12600.10ft: PUMP OUT CATCH CAN
12600.10ft: PUTTING ON ROTATING HEAD
12600.10ft: BIT DEPTH CHANGED TO 3005.0 FEET
12600.10ft: AIR DRILLERS FUEL AT 83 INCHES 9329 GAL. USED 178 GAL.
12600.10ft: PVT:Flow alarm reactivated: un-muted
12600.10ft: PVT:Flow alarm muted
12600.10ft: ZWOB from DHC
12600.10ft: PVT:Flow alarm reactivated: un-muted
12600.10ft: PVT:Flow alarm muted
12600.10ft: ZDiffPressure from SideKick sk-11-11-0402
12600.10ft: ZWOB from SideKick sk-11-11-0402
12600.10ft: PUMP OUT CATCH TANK TRANSFER PREMIX
12600.10ft: TRANSFERRED 500.00
12600.10ft: PVT:Flow alarm reactivated: un-muted
12600.10ft: PVT:Flow alarm muted
12600.10ft: PVT:Flow alarm reactivated: un-muted
12600.10ft: PVT:Flow alarm muted
12600.10ft: END TRANSFER CONTINUE PUMP OUT CATCH TANK
12600.10ft: 2450 CFM PARASITE
12600.10ft: RIG FUEL ON HAND 11, 571 GAL USED 1,748 GAL
12600.10ft: PARASITE BYPASSED
12600.10ft: VIS 63 WT 10.8
12600.10ft: MUD VIS 0.61
12600.10ft: MUD WEIGHT 10.70
12600.10ft: PVT:Flow alarm reactivated: un-muted
12600.10ft: PVT:Flow alarm muted
12600.10ft: PVT:Flow alarm reactivated: un-muted
12600.10ft: PVT:Flow alarm muted
12600.10ft: PVT:Flow alarm reactivated: un-muted
12600.10ft: PVT:Flow alarm muted
12600.10ft: PUMP OUT CATCH TANK
12600.10ft: TRANSFERRED 300.00
12600.10ft: AIR PARA 2400
12600.10ft: AIR BYPASSED
12600.10ft: CONT. PUMP KOUT CATCH TANK
12600.10ft: PUMP 100 BBLS
12600.10ft: PUMP OUT CATCH TANK
12600.10ft: MUD VIS 0.63
12600.10ft: MUD WEIGHT 10.72
12600.10ft: PVT:Flow alarm reactivated: un-muted
12600.10ft: PVT:Flow alarm muted
12600.10ft: PVT:Flow alarm reactivated: un-muted
12600.10ft: MUD VIS 0.62
12600.10ft: MUD WEIGHT 10.70
12600.10ft: PVT:Flow alarm muted
12600.10ft: AIR PARA 2400
12600.10ft: TRANSFERRED 300.00
12600.10ft: AIR BYPASSED
12600.10ft: PUMP CATCH TANK
12600.10ft: PVT:Flow alarm reactivated: un-muted
12600.10ft: PVT:Flow alarm muted
12600.10ft: MUD VIS 0.60
12600.10ft: MUD WEIGHT 10.70
12600.10ft: PVT:Flow alarm reactivated: un-muted
12600.10ft: PVT:Flow alarm muted
12600.10ft: AIR PARA 2400
12600.10ft: PUMP OUT CATCH TANK
12600.10ft: MUD VIS 0.55
12600.10ft: MUD WEIGHT 10.70
12600.10ft: TRANSFERRED 100.00
12600.10ft: MUD VIS 47.00
12600.10ft: MUD WEIGHT 10.70
12600.10ft: AIR DRILLERS FUEL AT 68 INCHES 7689 GAL. USED 1640