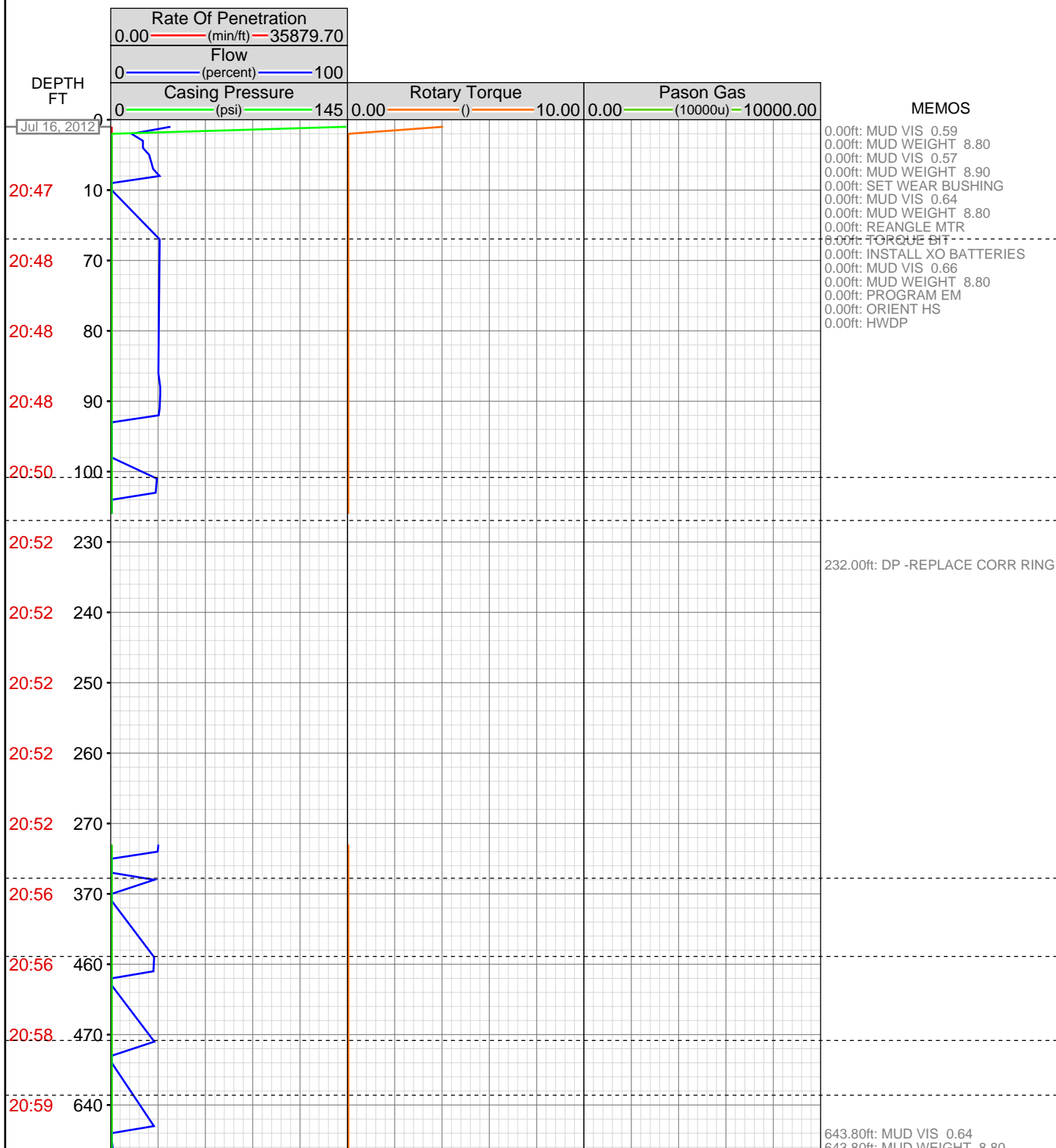


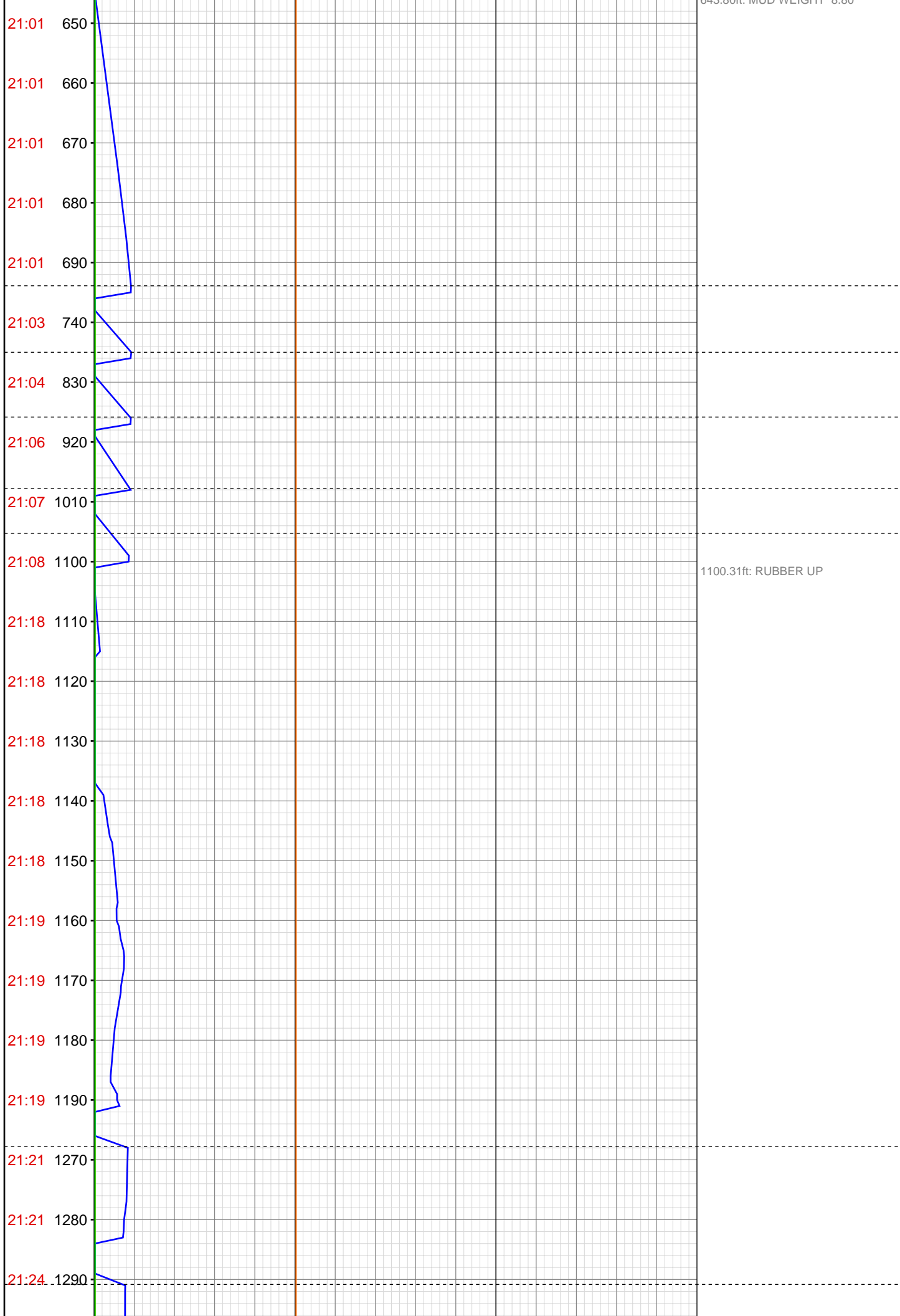
DataHub EDR Log

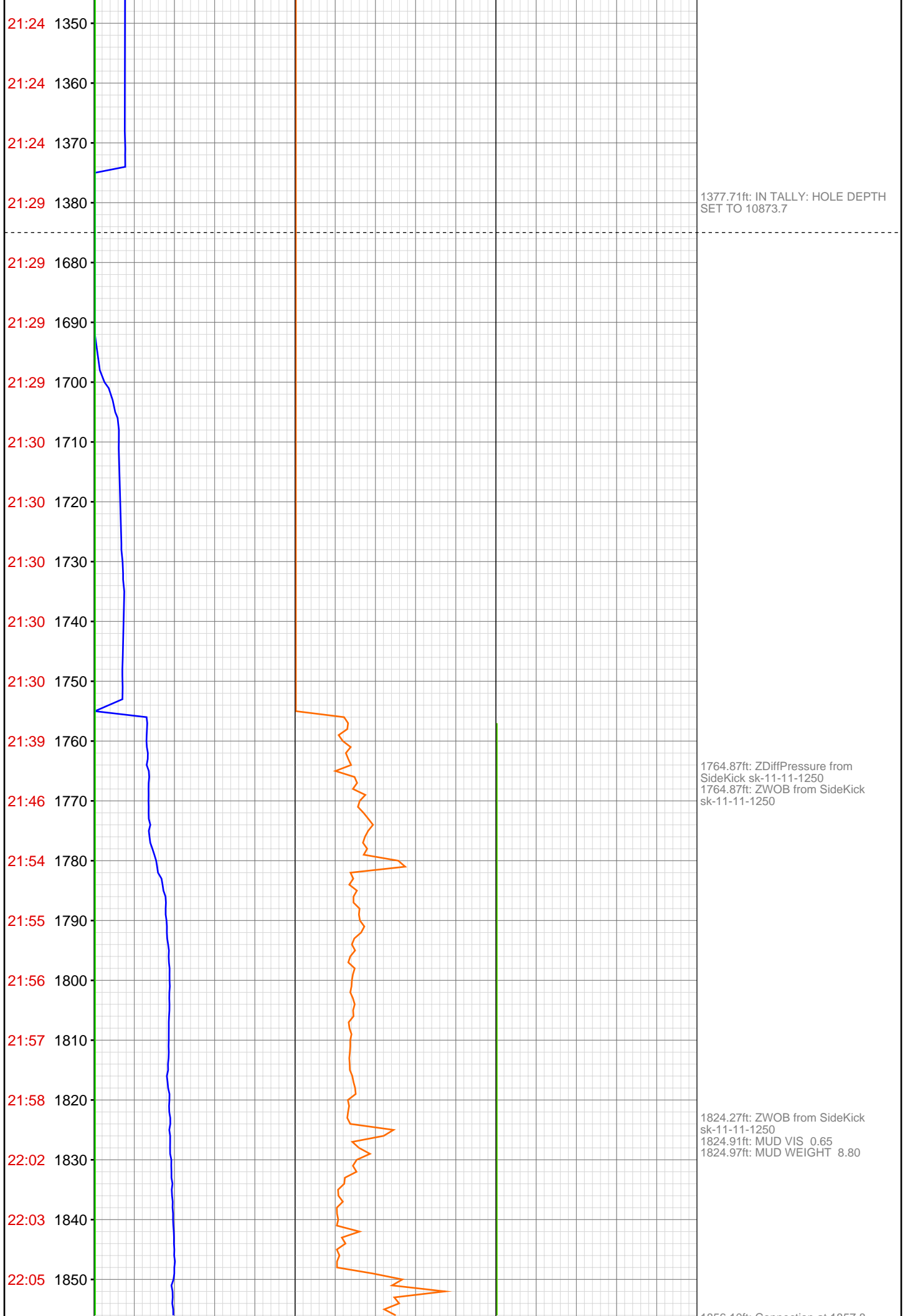
Mon Jul 23, 2012 08:54:34
Well Dossier 1342458582
Marilyn Tucker

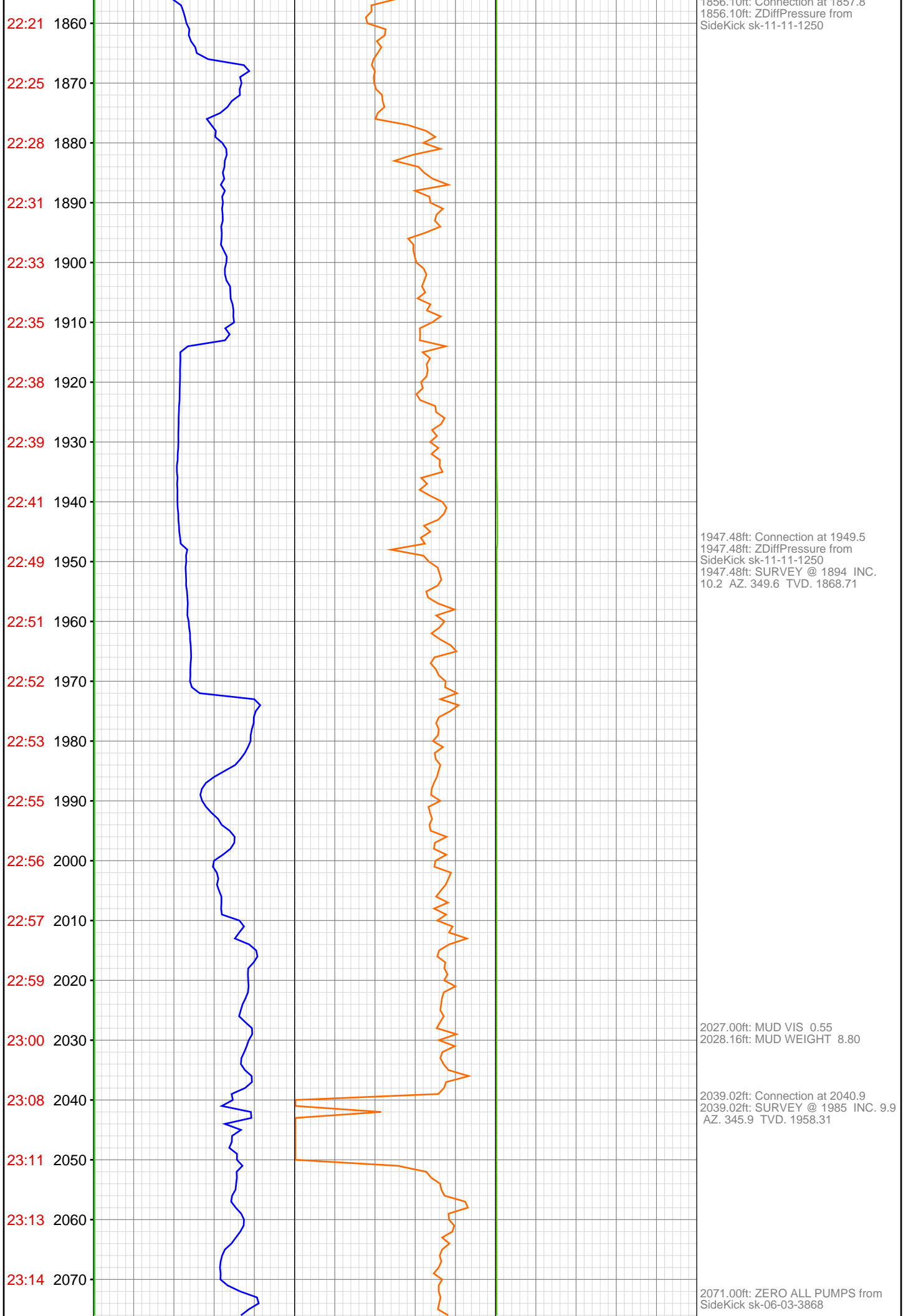
OPERATOR: EnCana Oil & Gas (USA), Inc.
WELL: NP EF 09E-27 P27 595
FIELD:
LOCATION: SE SE SEC 27, T005S, R95W
COUNTRY: USA
RIG: Pat-UTI 303

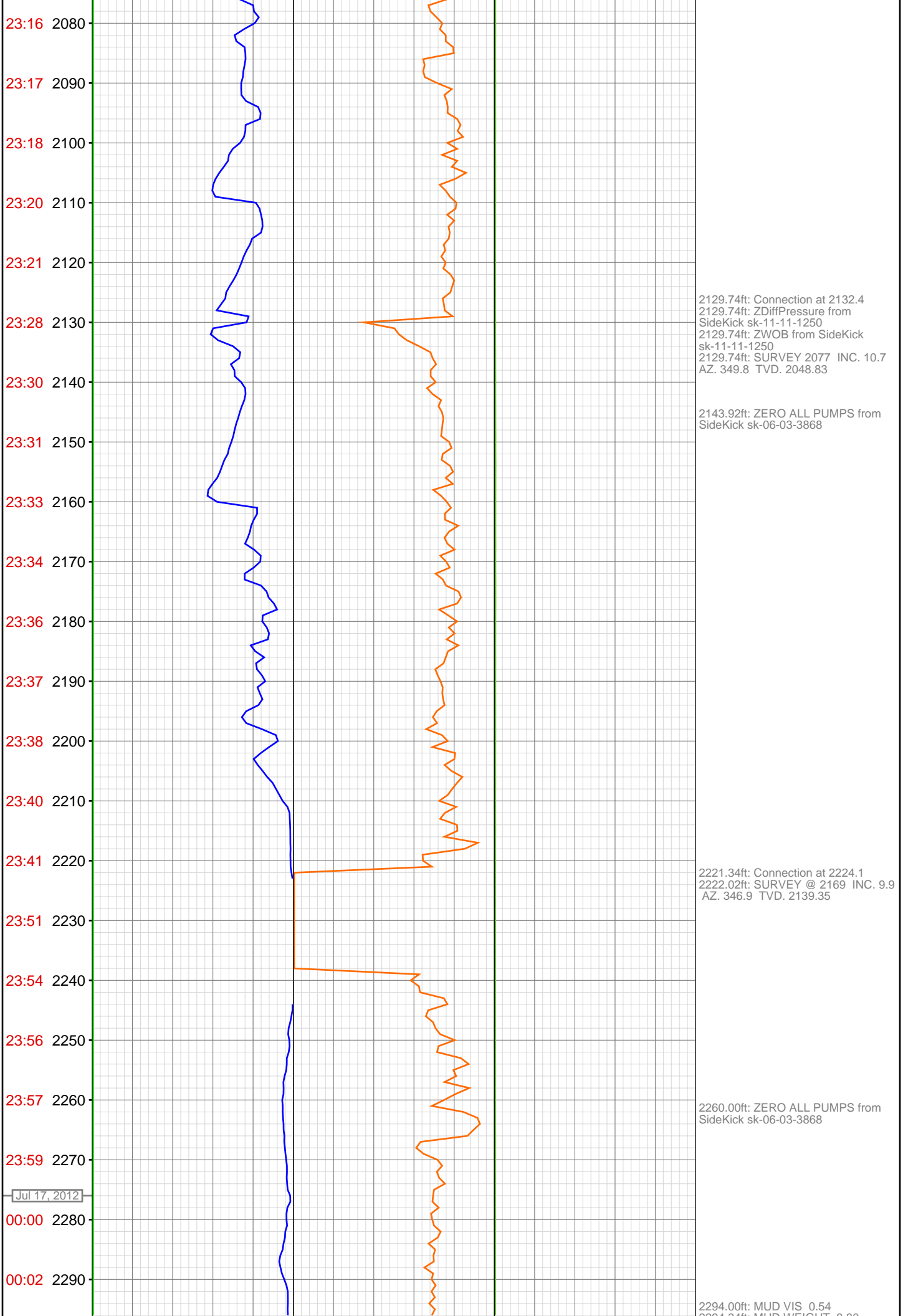
CONTRACTOR: Patterson-UTI Drilling Company
UNIQUE WELL ID: 05045202990000
SPUD DATE: Jul 16, 2012 22:30
RELEASE DATE:

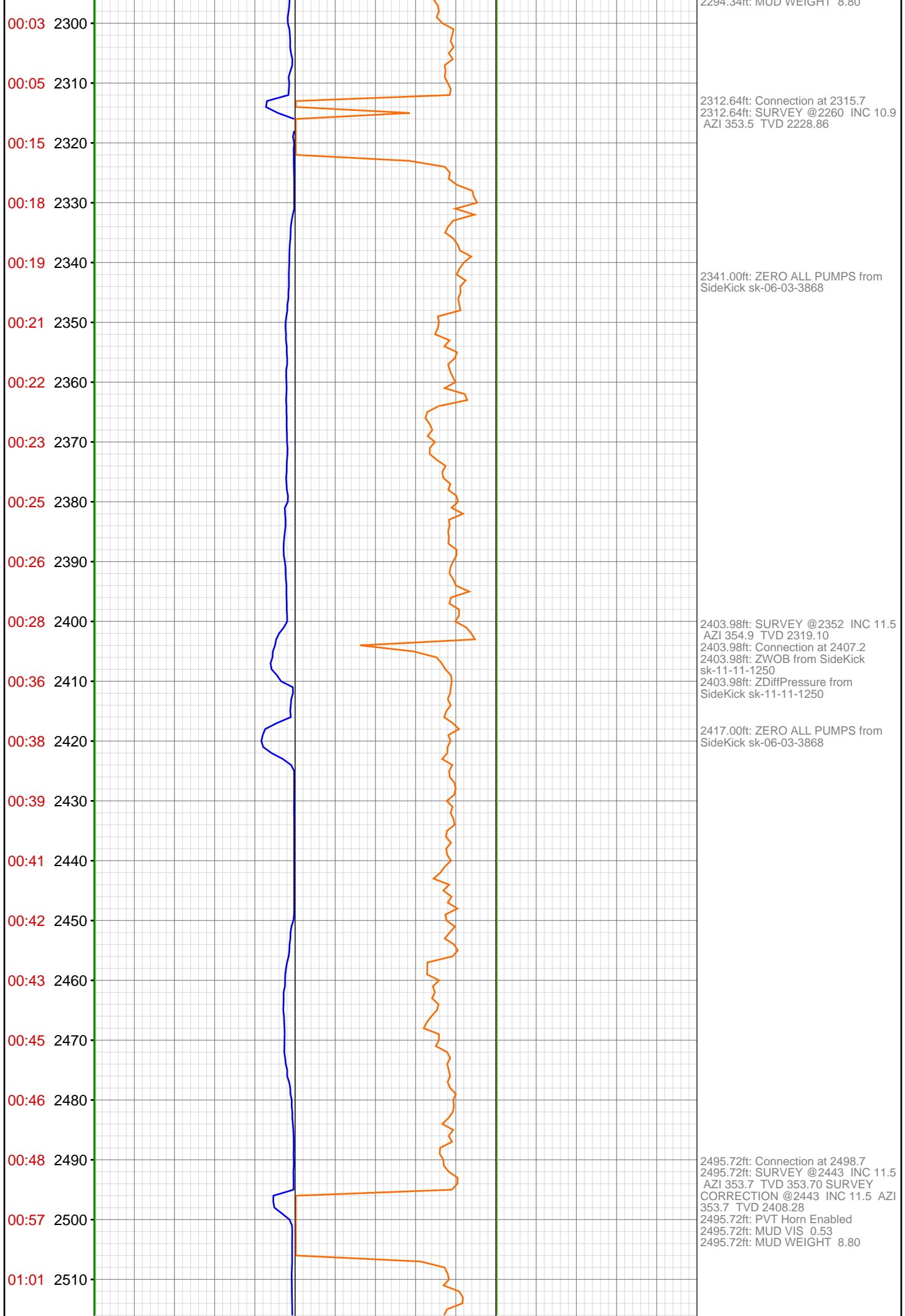


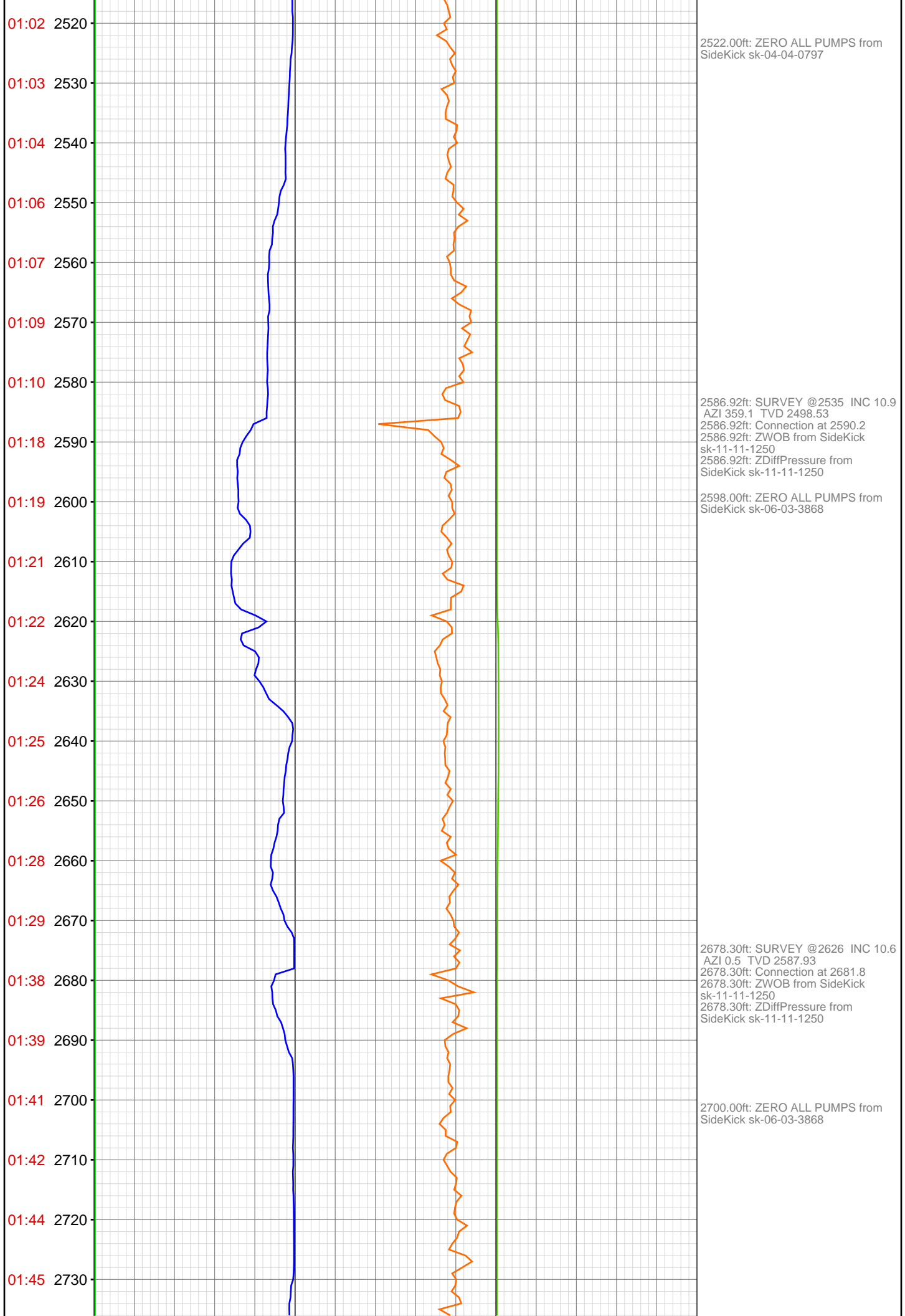


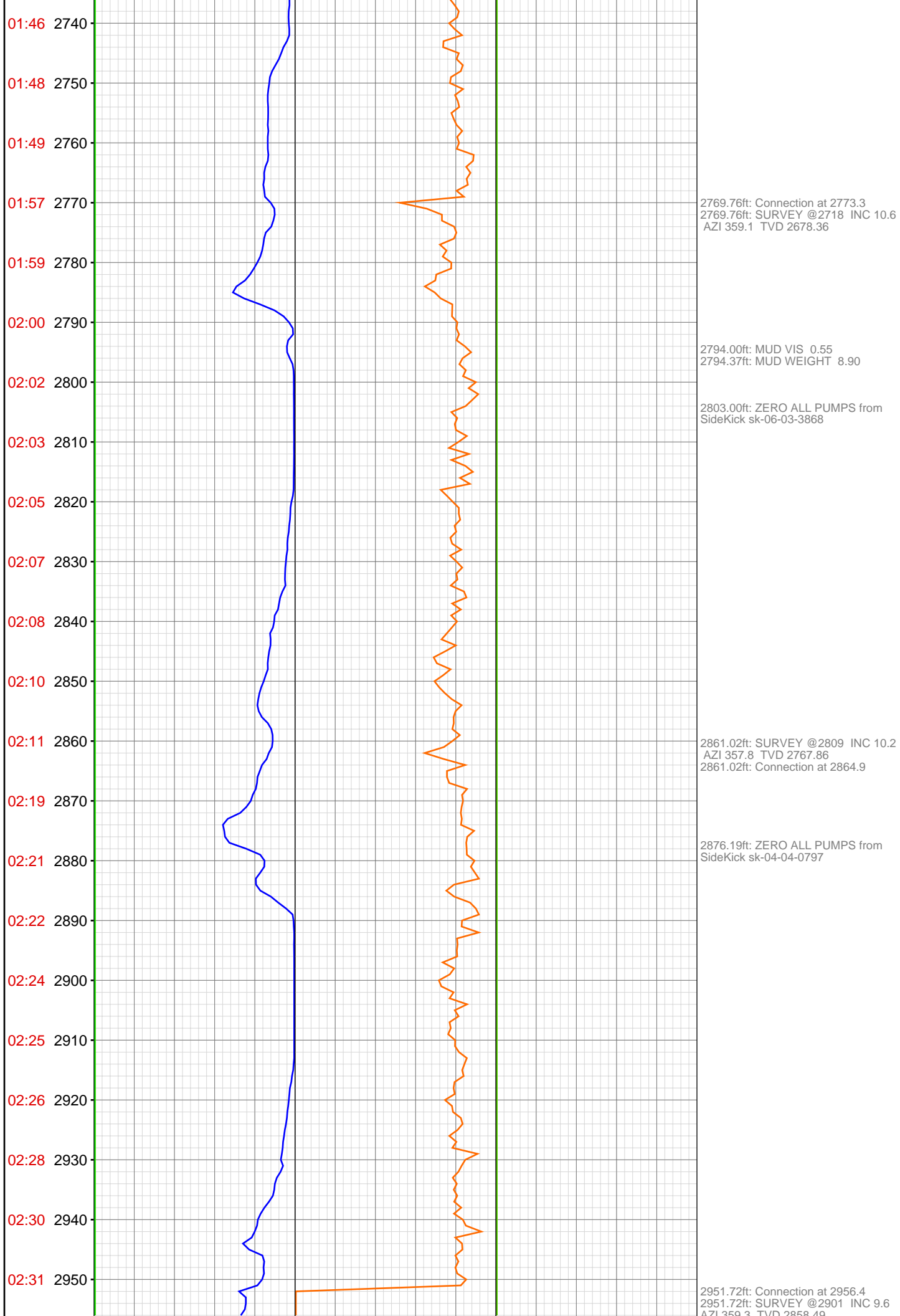


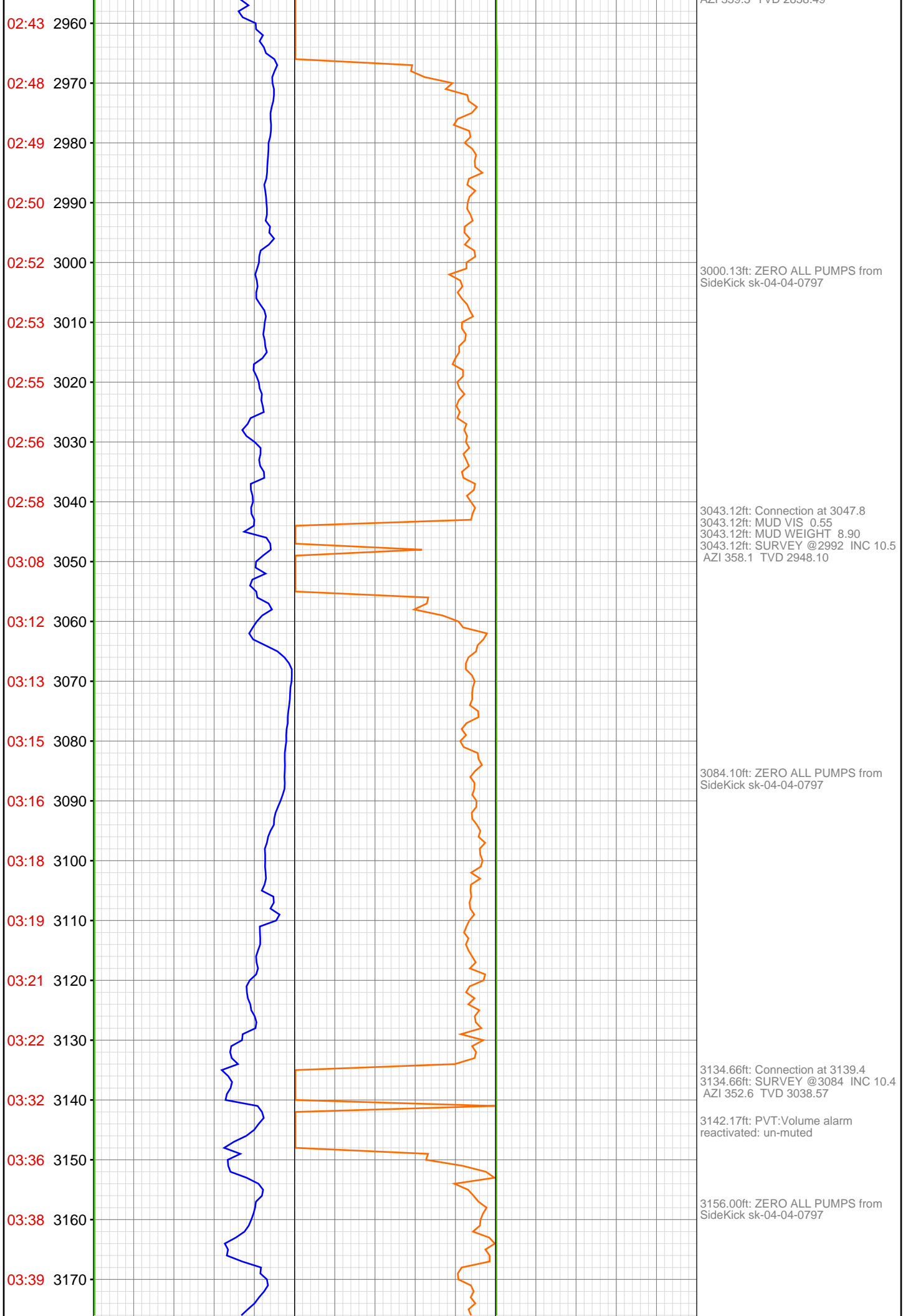


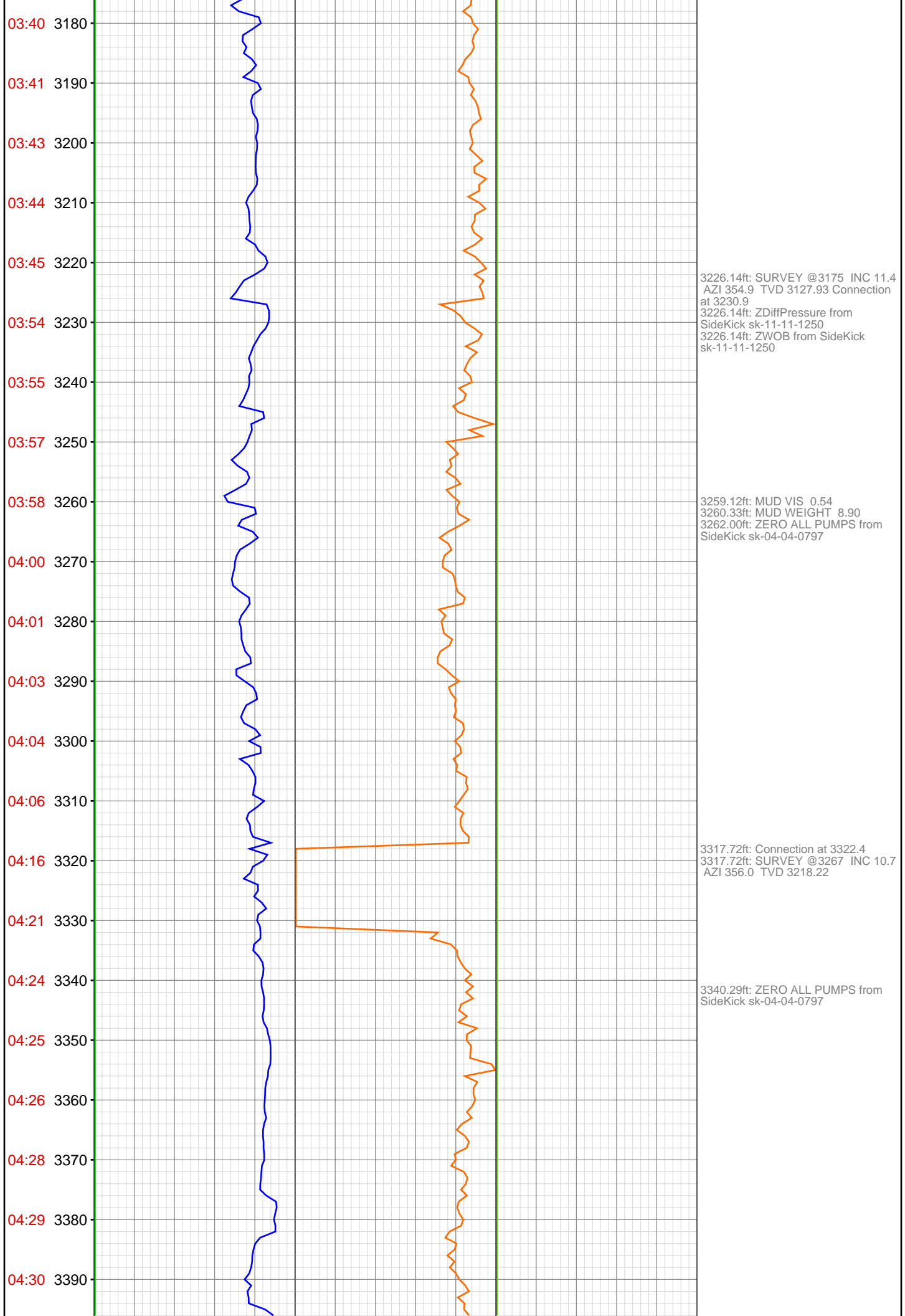




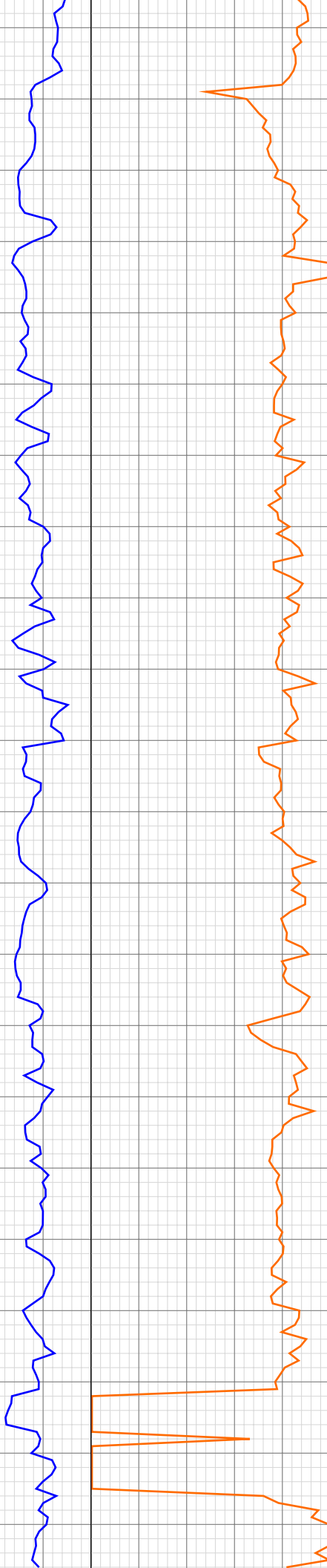








04:32 3400
04:40 3410
04:41 3420
04:43 3430
04:44 3440
04:46 3450
04:47 3460
04:48 3470
04:50 3480
04:51 3490
04:53 3500
05:01 3510
05:03 3520
05:04 3530
05:06 3540
05:08 3550
05:09 3560
05:11 3570
05:12 3580
05:14 3590
05:25 3600
05:29 3610



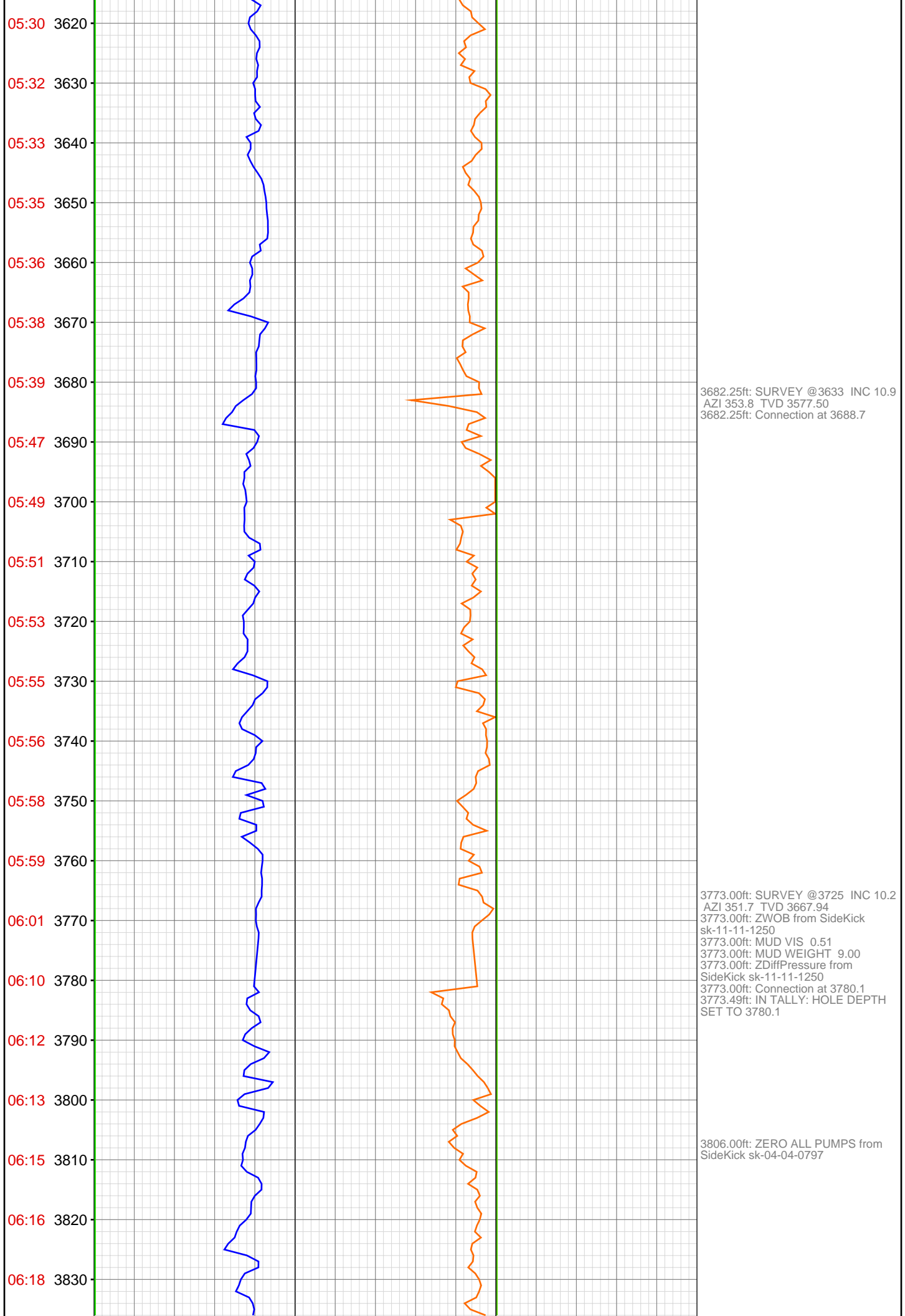
3408.92ft: SURVEY @3359 INC 11.4
AZI 355.6 TVD 3308.52
3408.92ft: Connection at 3414.0
3408.92ft: ZWOB from SideKick
sk-11-11-1250

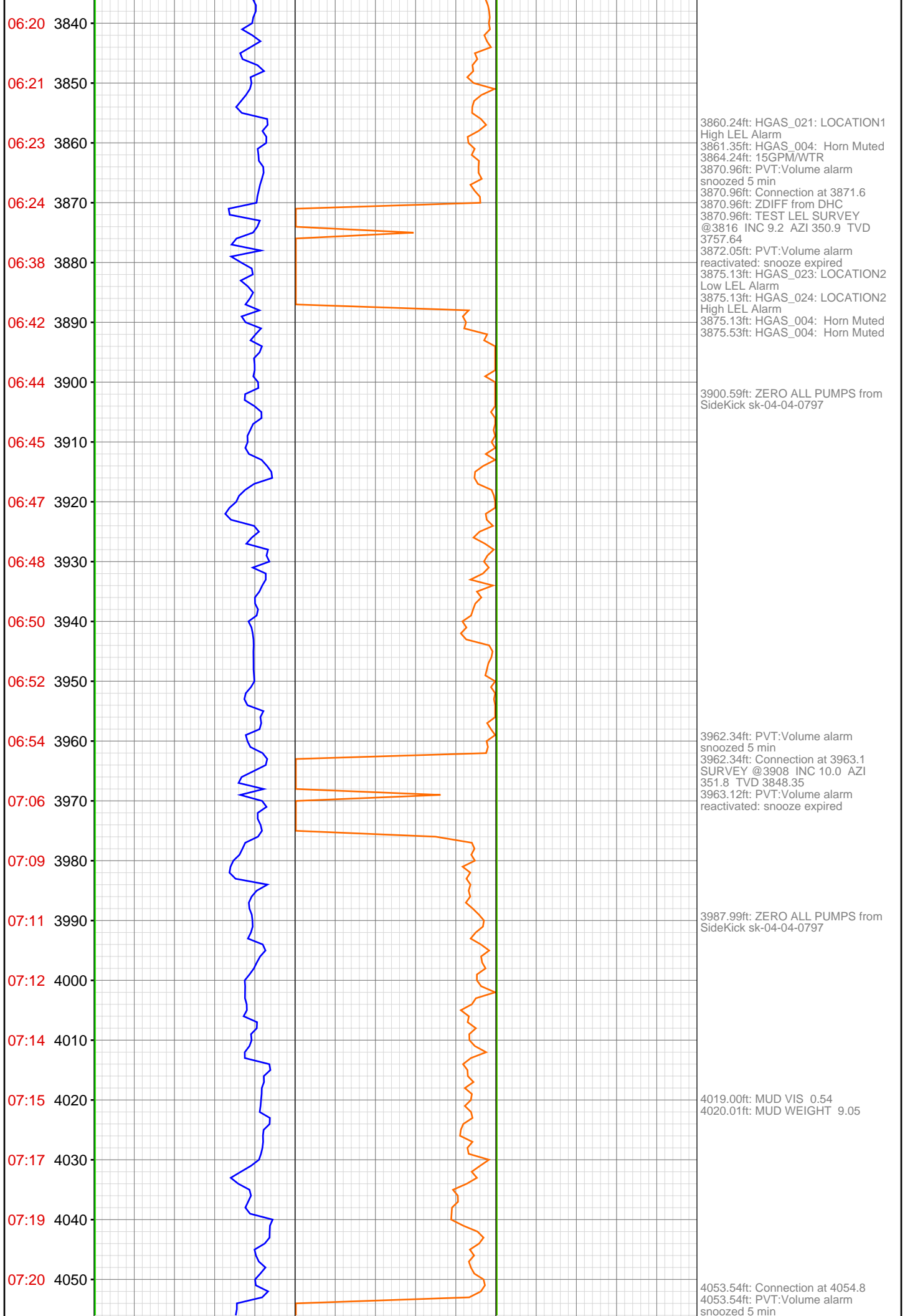
3417.68ft: ZERO ALL PUMPS from
SideKick sk-04-04-0797

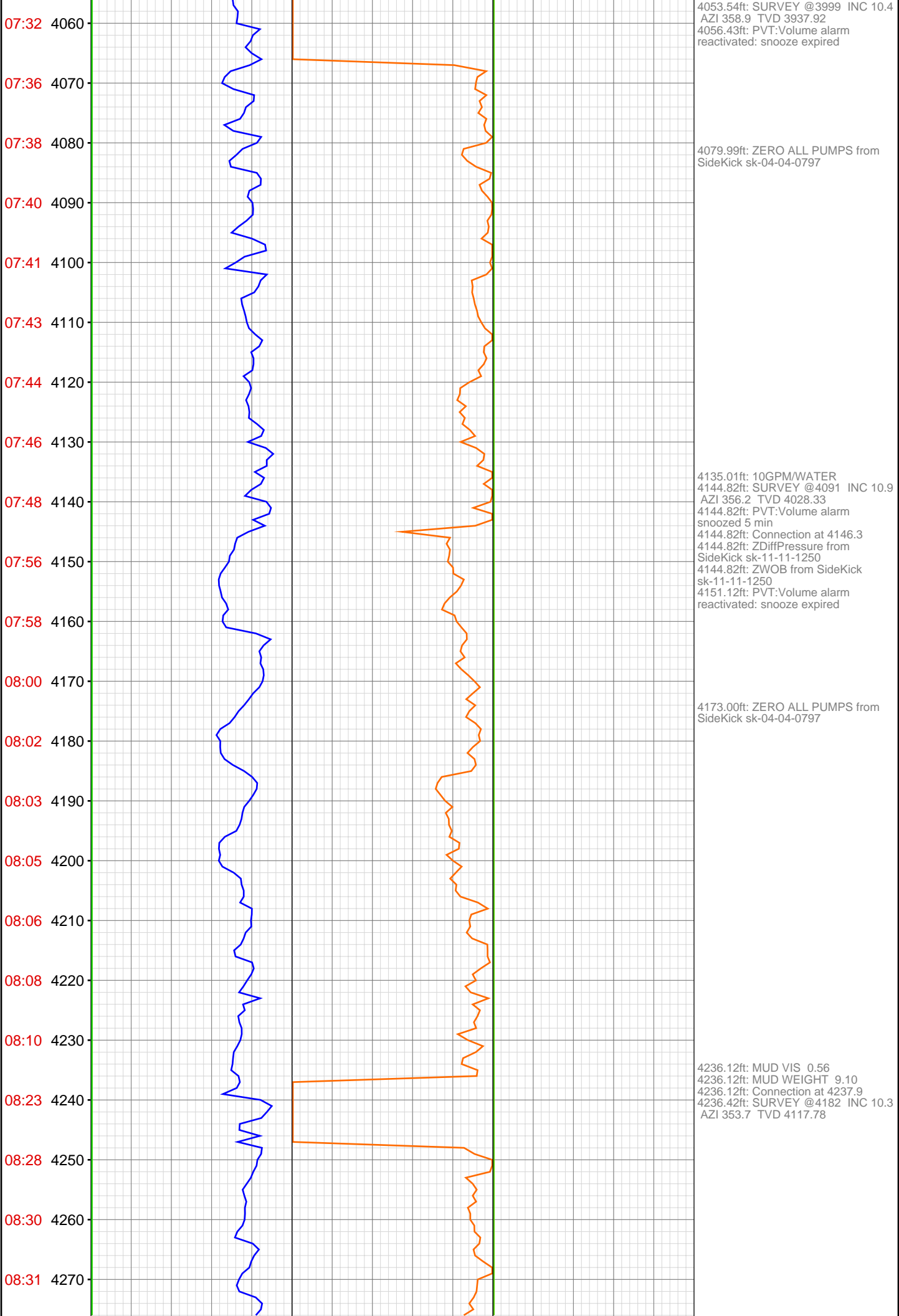
3500.03ft: Connection at 3505.7
3500.03ft: MUD VIS 0.55
3500.03ft: MUD WEIGHT 8.90
3500.03ft: SURVEY @3450 INC 11.2
AZI 355.8 TVD 3397.75

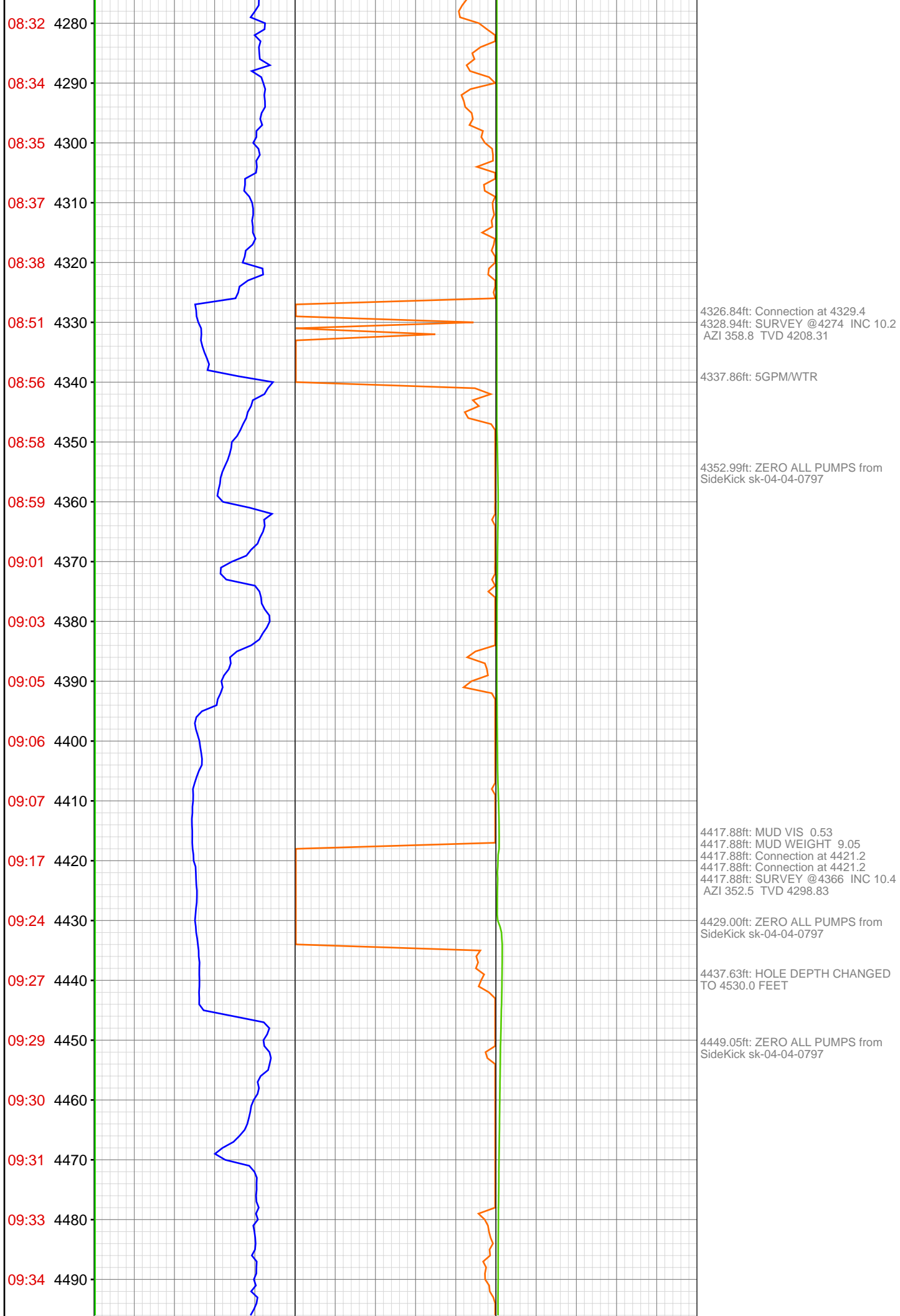
3513.35ft: ZERO ALL PUMPS from
SideKick sk-06-03-3868

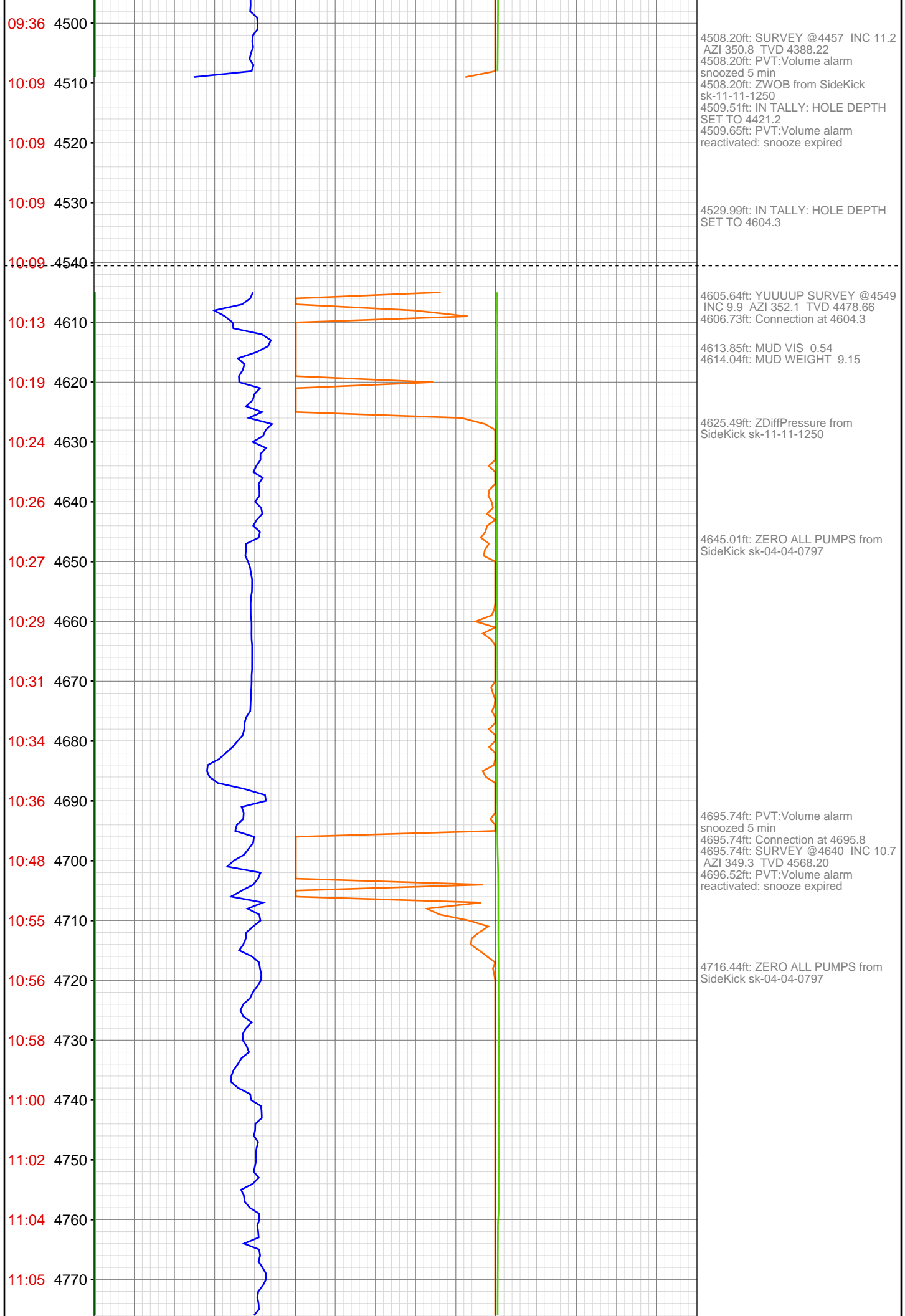
3591.27ft: Connection at 3597.2
3591.27ft: SURVEY @3542 INC 10.6
AZI 355.1 TVD 3488.09

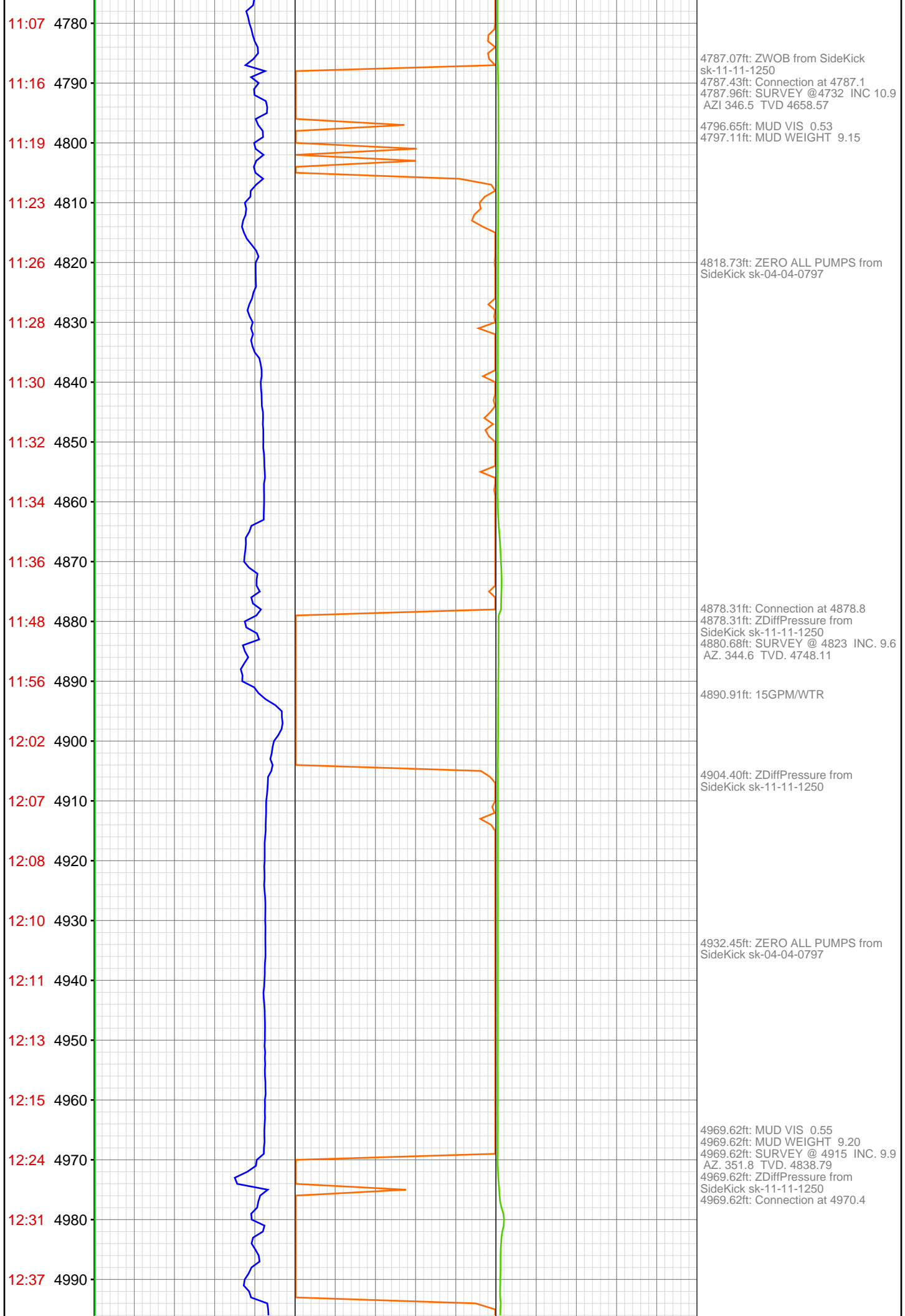




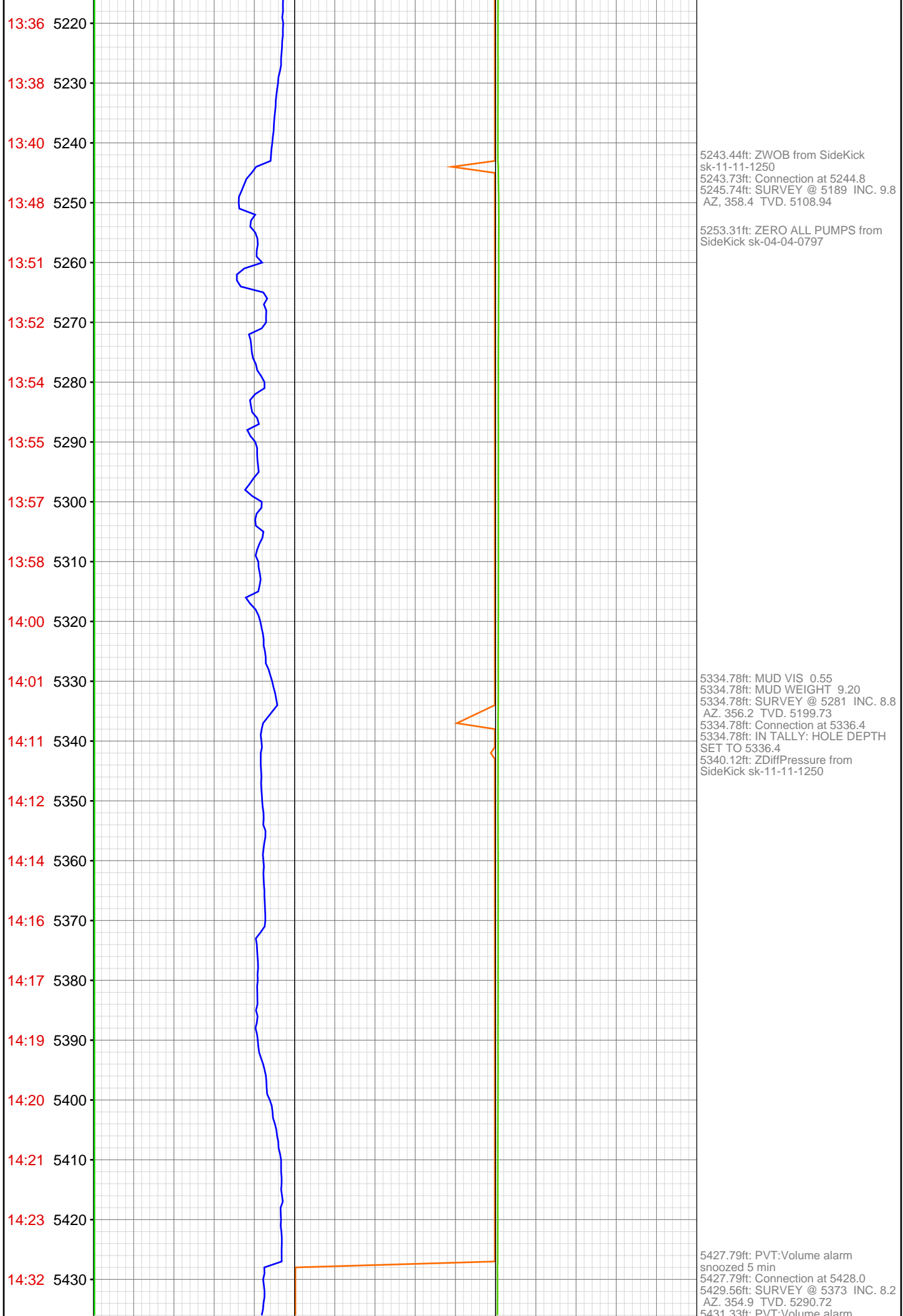


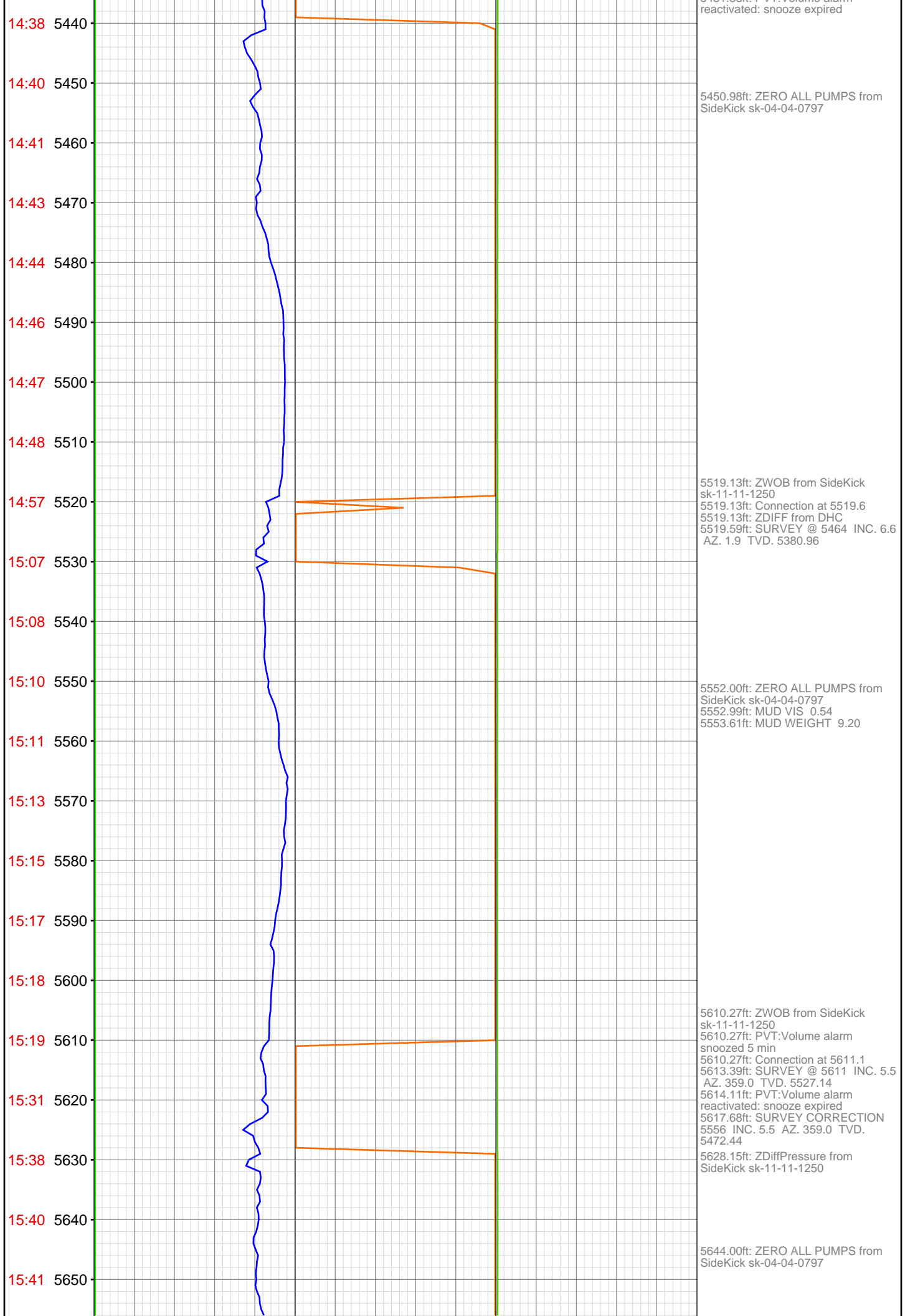


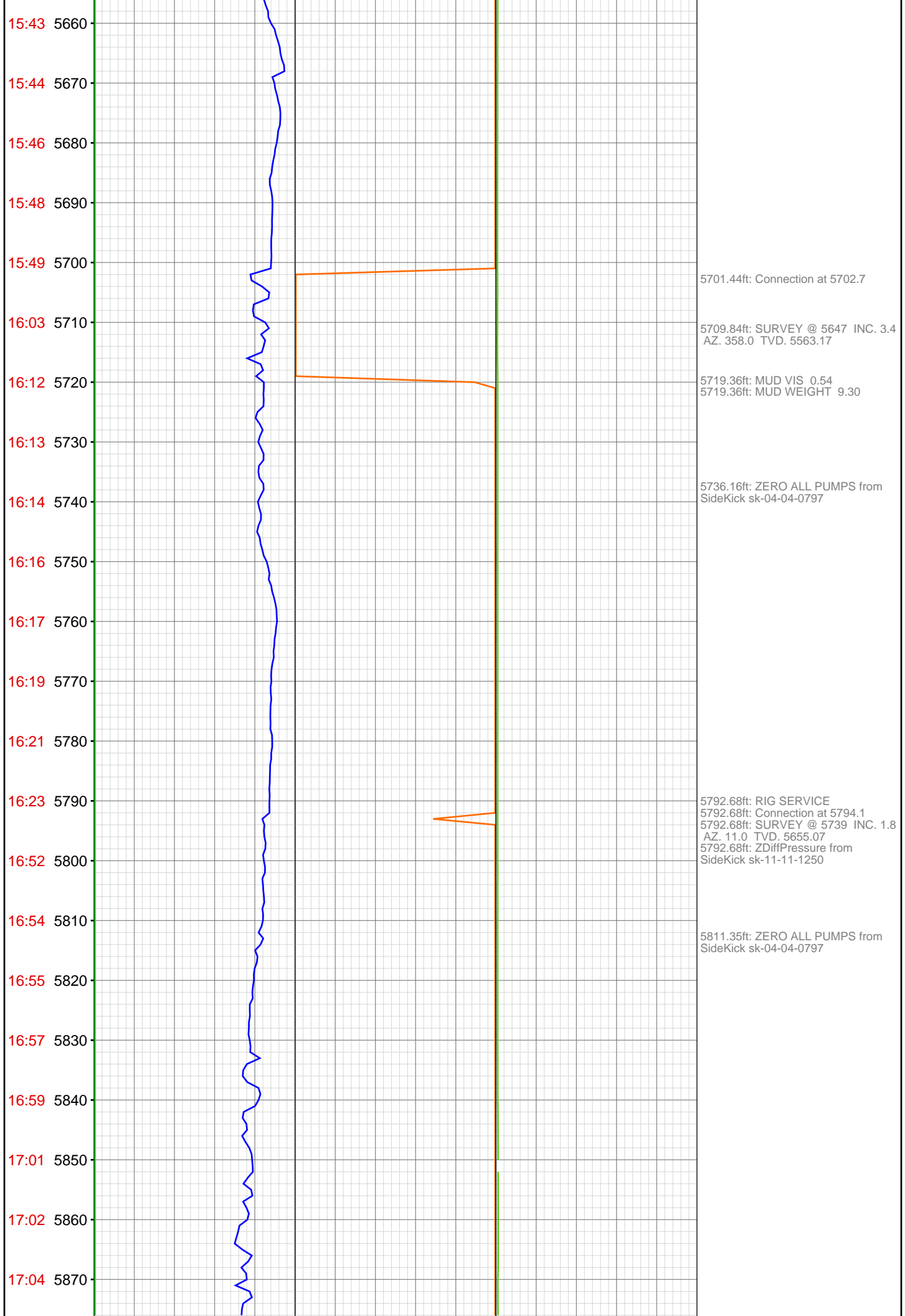












17:05 5880
17:14 5890
17:16 5900
17:17 5910
17:19 5920
17:20 5930
17:22 5940
17:23 5950
17:25 5960
17:26 5970
17:39 5980
17:41 5990
17:43 6000
17:45 6010
17:46 6020
17:48 6030
17:50 6040
17:52 6050
17:54 6060
18:05 6070
18:09 6080
18:12 6090



5883.96ft: SURVEY @ 5830 INC. 1.4
AZ. 344.4 TVD. 5746.03
5883.96ft: Connection at 5885.7
5883.96ft: ZDiffPressure from
SideKick sk-11-11-1250 MUD VIS
0.54
5883.96ft: MUD VIS 9.30

5904.17ft: ZERO ALL PUMPS from
SideKick sk-04-04-0797

5975.49ft: ZWOB from SideKick
sk-11-11-1250
5975.49ft: SURVEY @ 5922 INC. 1.0
AZ. 355.3 TVD. 5838.01 Connection
at 5977.3
5975.49ft: ZDiffPressure from
SideKick sk-11-11-1250

5988.22ft: ZERO ALL PUMPS from
SideKick sk-04-04-0797

6066.70ft: ZWOB from SideKick
sk-11-11-1250
6066.70ft: Connection at 6068.9
6066.70ft: MUD VIS 0.53
6066.70ft: ZDiffPressure from
SideKick sk-11-11-1250
6066.70ft: MUD WEIGHT 9.30
6066.70ft: SURVEY @ 6013 INC. 0.6
AZ. 355.7 TVD. 5929.0

6079.53ft: ZERO ALL PUMPS from
SideKick sk-04-04-0797

18:14 6100
18:19 6110
18:25 6120
18:28 6130
18:29 6140
18:31 6150
18:44 6160
18:48 6170
18:58 6180
19:01 6190
19:02 6200
19:04 6210
19:06 6220
19:07 6230
19:09 6240
19:19 6250
19:21 6260
19:23 6270
19:25 6280
19:27 6290
19:28 6300
19:30 6310



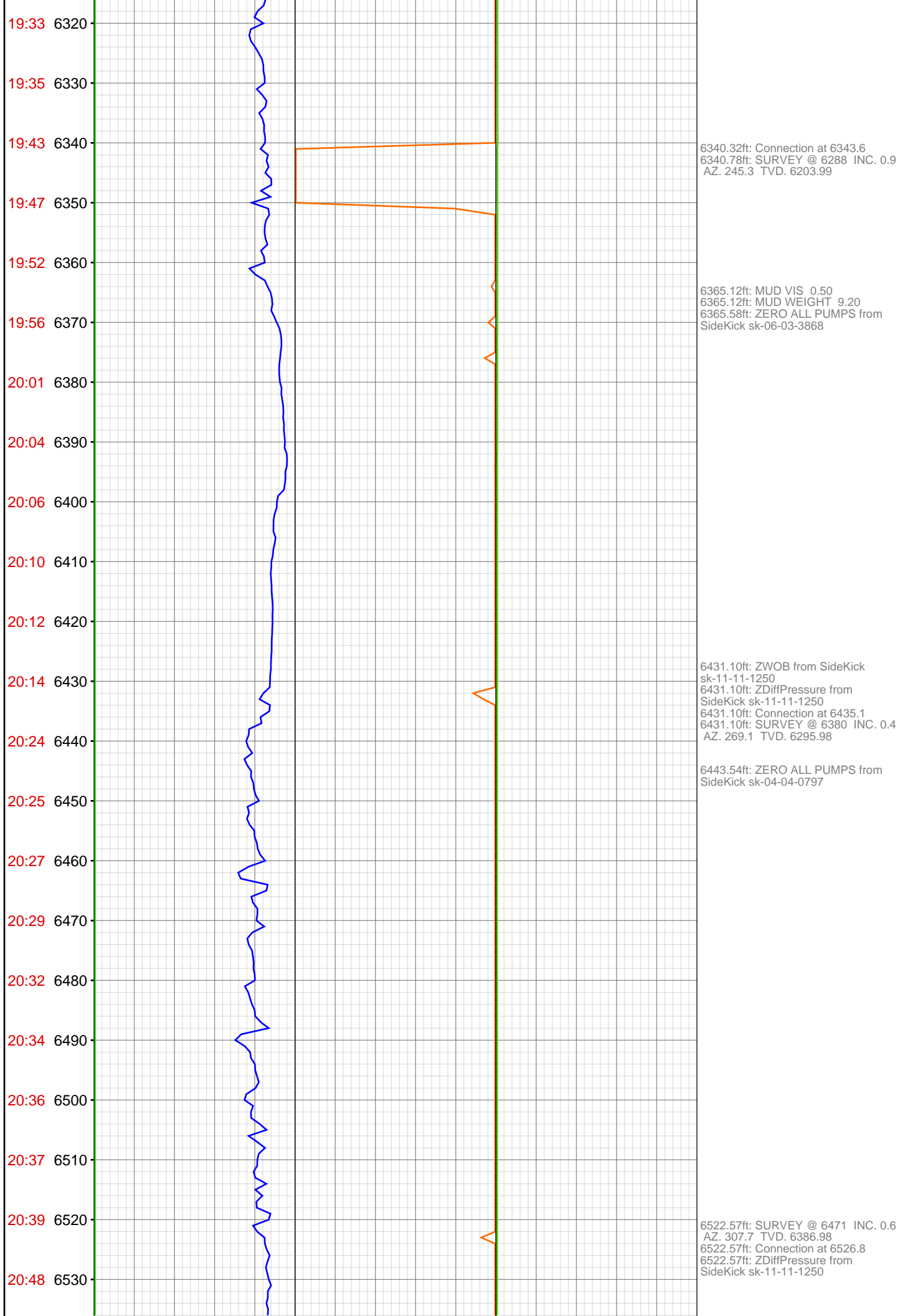
6117.29ft: ZDiffPressure from SideKick sk-11-11-1250

6157.87ft: SURVEY @ 6105 INC. 0.4
AZ. 317.8 TVD. 6021.0
6157.87ft: Connection at 6160.5
6157.87ft: ZDiffPressure from SideKick sk-11-11-1250

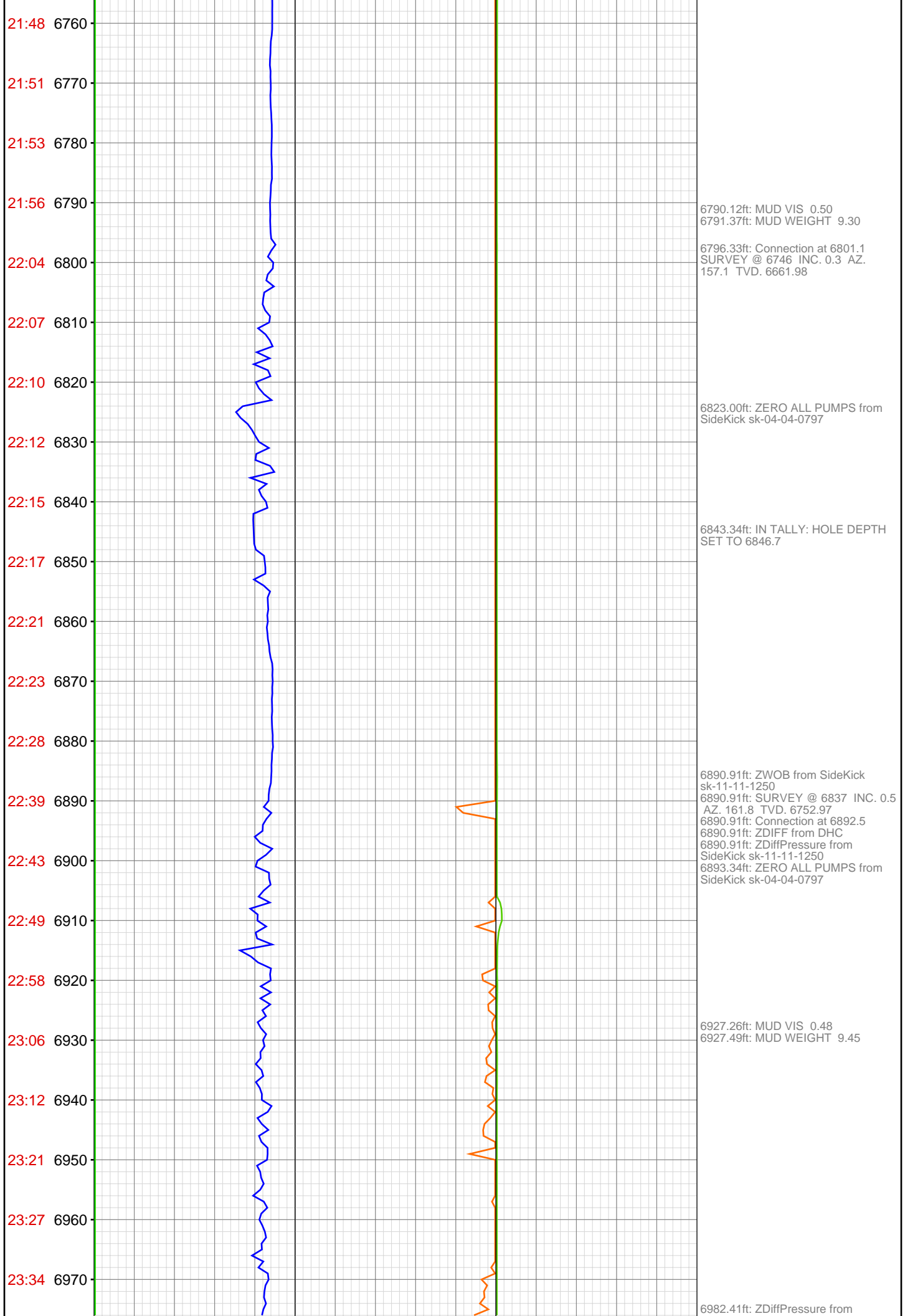
6172.90ft: ZWOB from SideKick sk-11-11-1250
6172.90ft: ZDiffPressure from SideKick sk-11-11-1250
6172.90ft: ZDiffPressure from SideKick sk-11-11-1250

6184.42ft: PVT:Volume alarm reactivated: un-muted

6249.18ft: Connection at 6252.0
6249.18ft: ZDiffPressure from SideKick sk-11-11-1250
6249.18ft: SURVEY @ 6197 INC. 0.6
AZ. 253.1 TVD. 6113.0
6256.99ft: MUD VIS 0.50
6258.01ft: MUD WEIGHT 9.20







23:45 6980

Jul 18, 2012

00:14 6990

00:24 7000

00:33 7010

00:40 7020

00:50 7030

00:58 7040

01:11 7050

01:18 7060

01:26 7070

01:47 7080

02:03 7090

02:12 7100

02:23 7110

02:30 7120

02:41 7130

02:45 7140

02:51 7150

02:59 7160

03:23 7170

03:46 7180

03:52 7190

SideKick sk-11-11-1250
6982.41ft: MUD VIS 0.50
6982.41ft: MUD WEIGHT 9.60
6982.41ft: SURVEY @6929 INC 0.7
AZI 175.0 TVD 6844.97
6982.41ft: Connection at 6984.1
6982.41ft: ZDiffPressure from
SideKick sk-11-11-1250
6982.41ft: ZWOB from SideKick
sk-11-11-1250

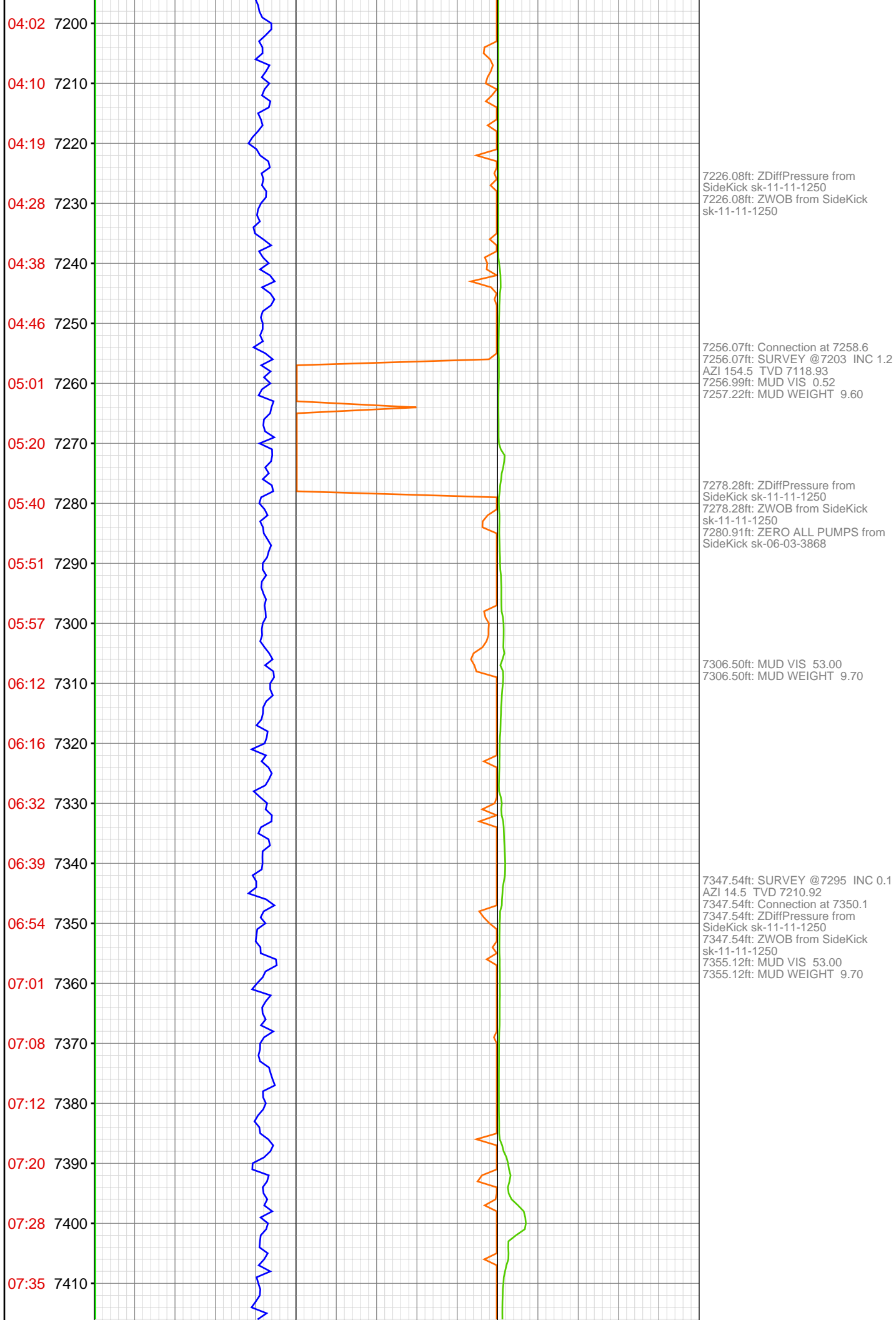
7013.35ft: ZERO ALL PUMPS from
SideKick sk-06-03-3868

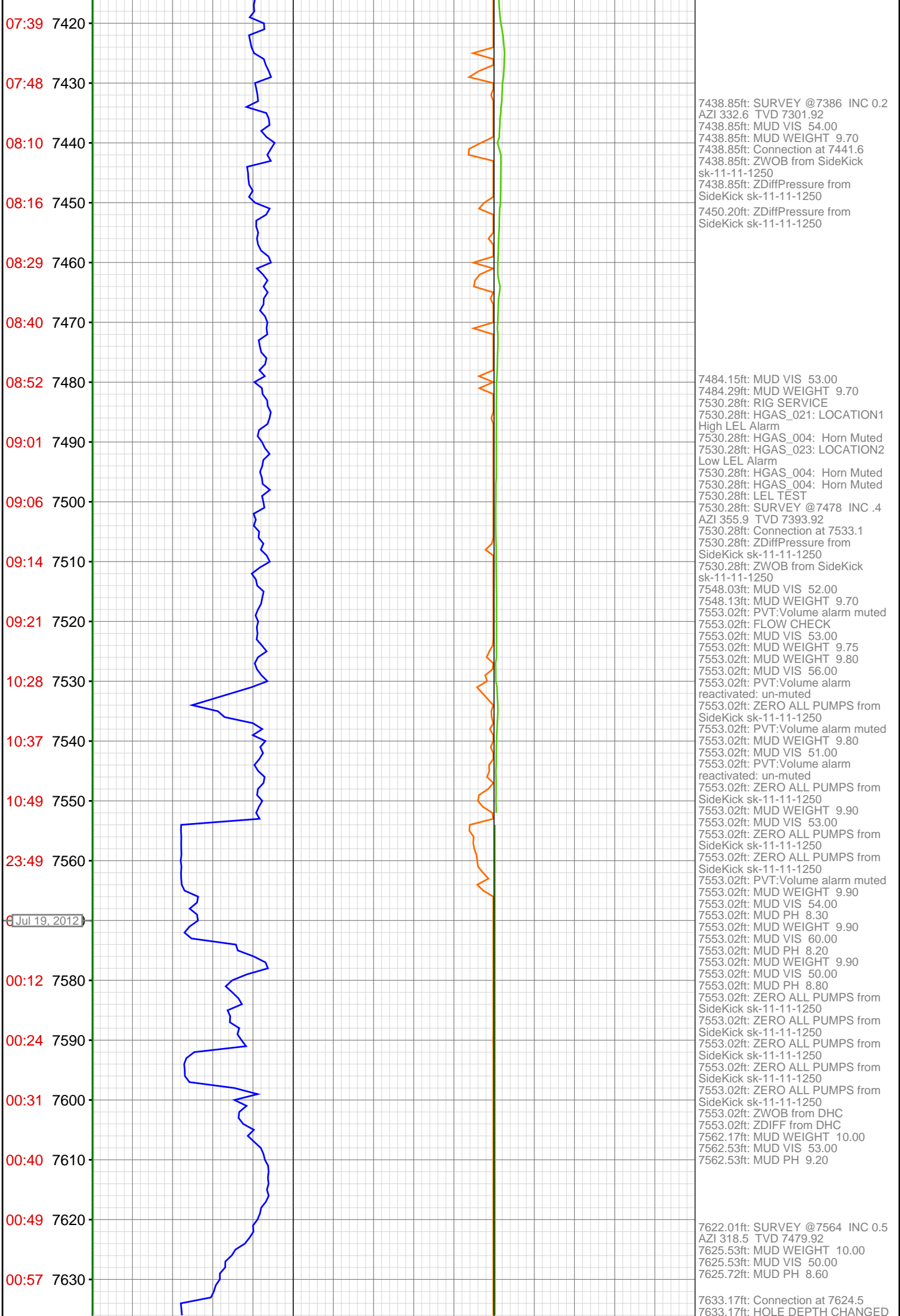
7039.27ft: MUD VIS 0.52
7039.27ft: MUD WEIGHT 9.60

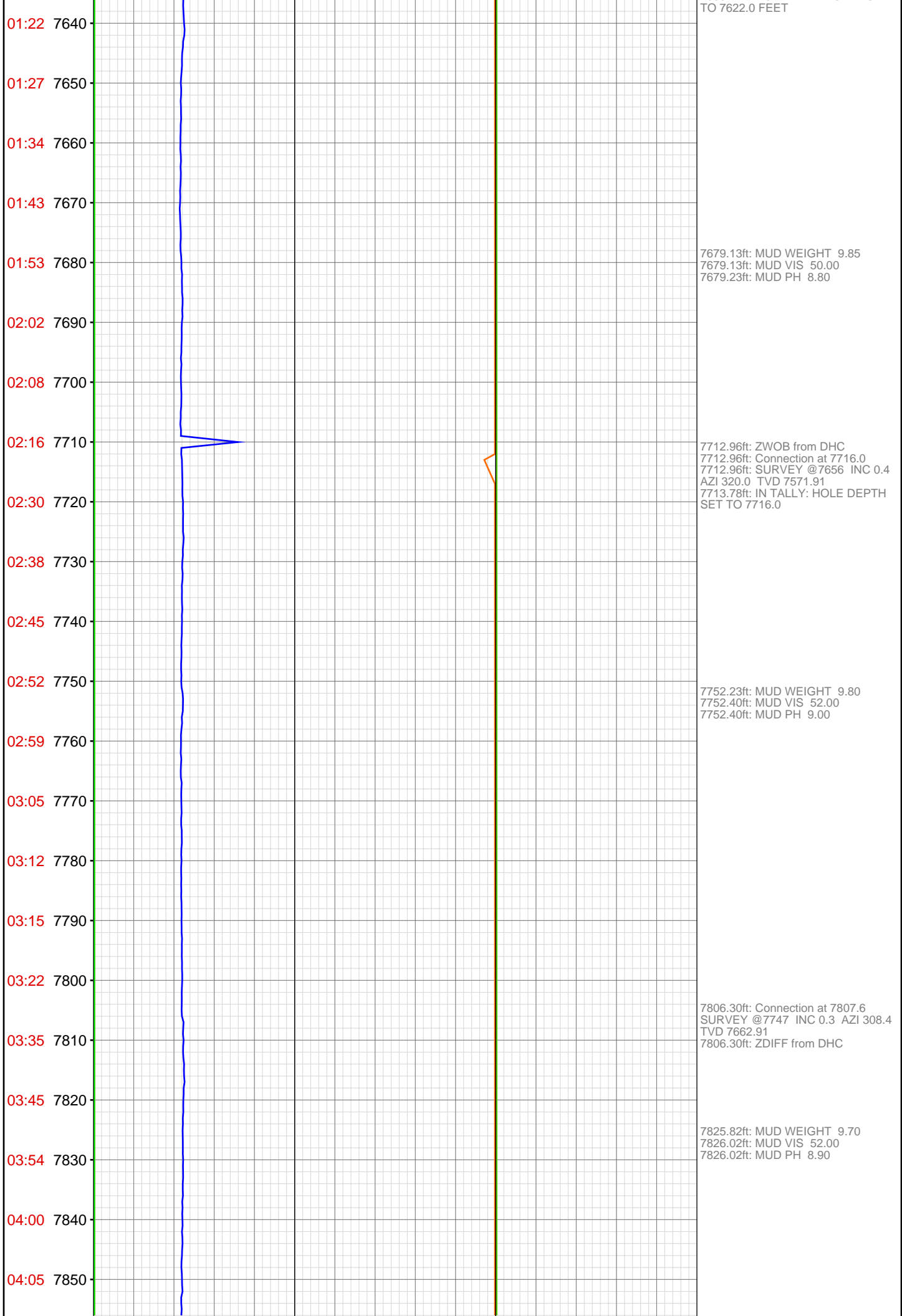
7073.46ft: Connection at 7075.6
7073.46ft: SURVEY @7020 INC 1.1
AZI 194.5 TVD 6935.96

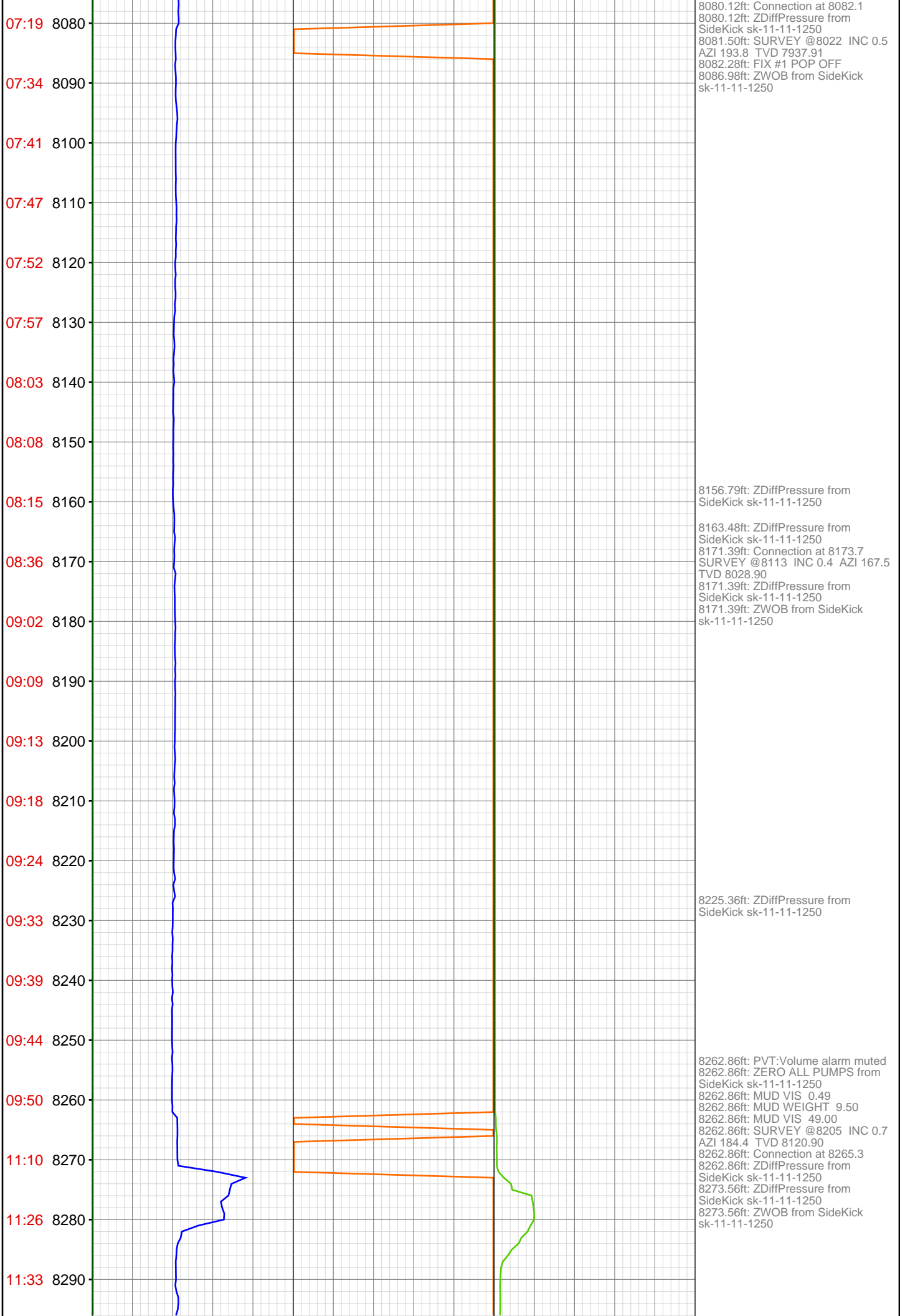
7086.55ft: MUD VIS 0.51
7086.55ft: MUD WEIGHT 9.60
7086.81ft: ZWOB from SideKick
sk-11-11-1250
7086.81ft: ZDiffPressure from
SideKick sk-11-11-1250
7092.03ft: ZERO ALL PUMPS from
SideKick sk-06-03-3868

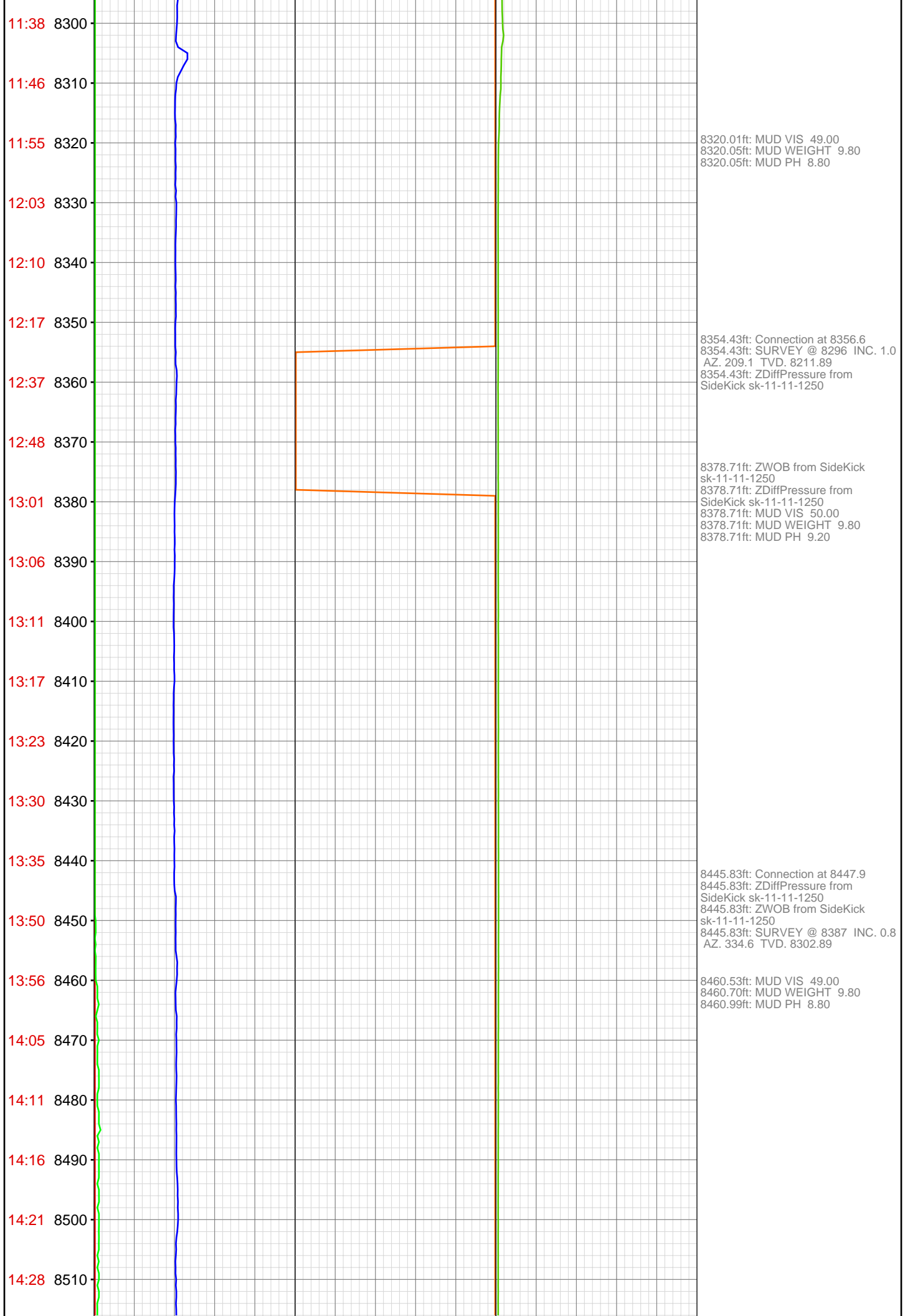
7164.37ft: MUD VIS 0.53
7164.53ft: MUD WEIGHT 9.60
7164.96ft: S-P-R
7164.96ft: Connection at 7167.1
7164.96ft: SURVEY @7112 INC 1.1
AZI 130.7 TVD 7027.94
7180.28ft: ZDiffPressure from
SideKick sk-11-11-1250
7180.28ft: ZWOB from SideKick
sk-11-11-1250
7180.28ft: ZDiffPressure from
SideKick sk-11-11-1250
7184.22ft: ZERO ALL PUMPS from
SideKick sk-06-03-3868
7192.62ft: MUD VIS 0.52
7192.68ft: MUD WEIGHT 9.60



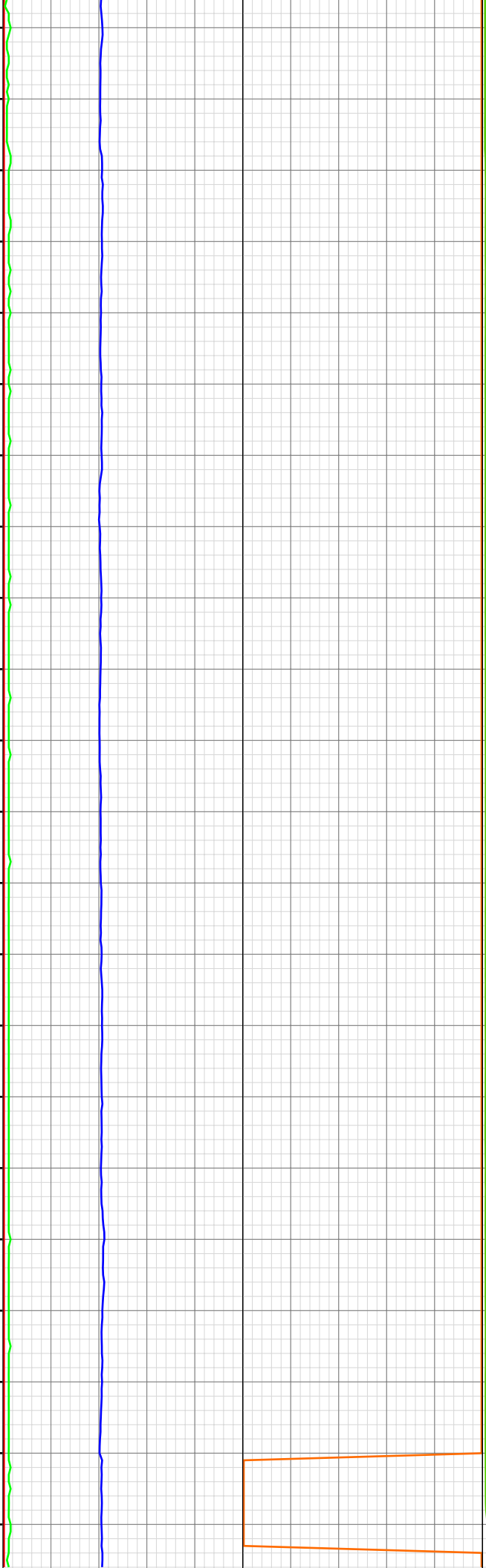








14:34 8520
14:39 8530
14:58 8540
15:06 8550
15:14 8560
15:22 8570
15:27 8580
15:33 8590
15:39 8600
15:46 8610
15:53 8620
16:36 8630
16:41 8640
16:45 8650
16:52 8660
17:01 8670
17:10 8680
17:20 8690
17:25 8700
17:33 8710
17:38 8720
18:02 8730



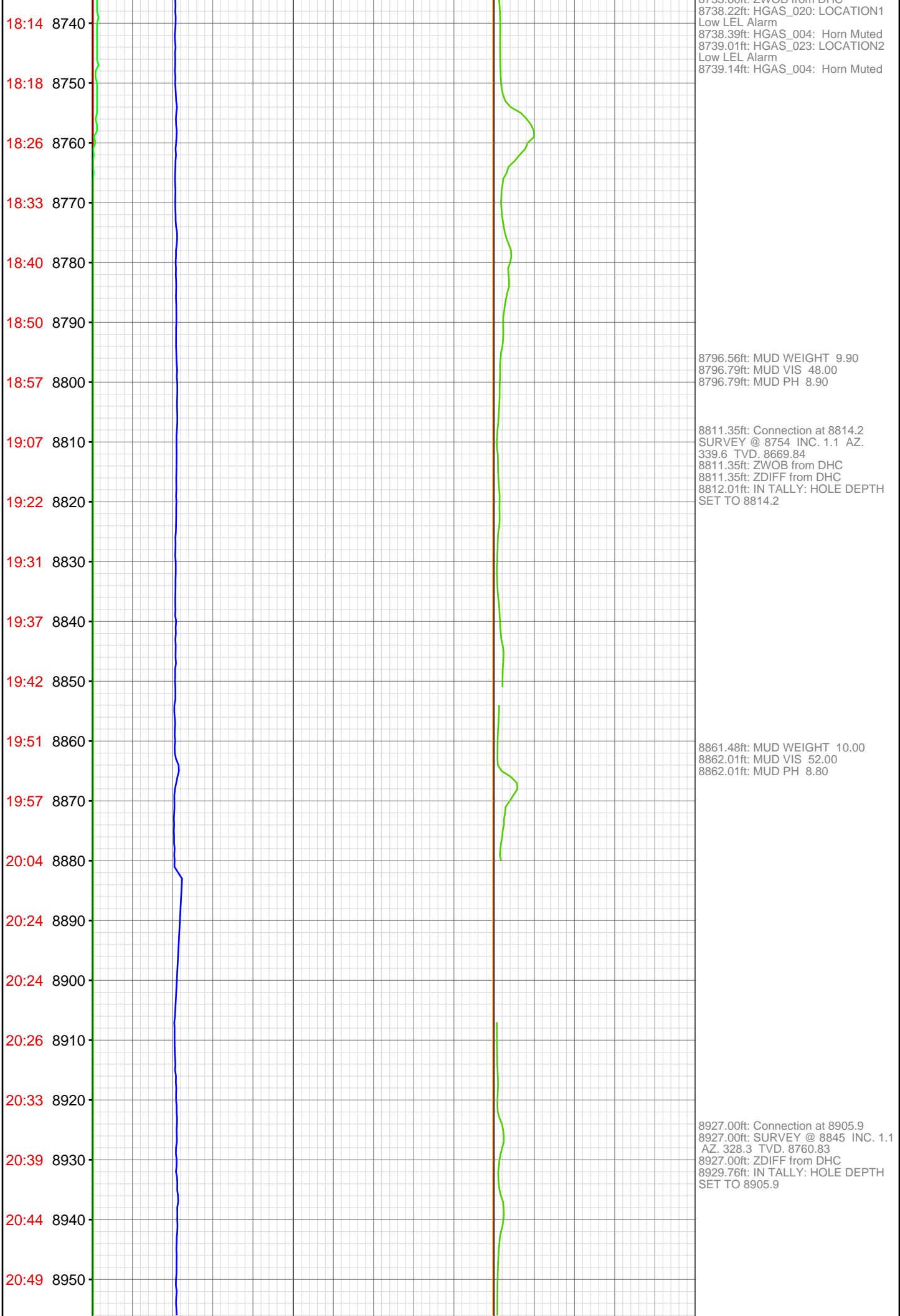
8537.07ft: Connection at 8539.4
8537.07ft: MUD VIS 50.00
8537.07ft: MUD WEIGHT 9.80
8537.07ft: MUD PH 8.60
8537.07ft: ZWOB from SideKick
sk-11-11-1250
8537.07ft: ZDiffPressure from
SideKick sk-11-11-1250
8537.07ft: SURVEY @ 8479 INC. 1.0
AZ. 347.6 TVD. 8394.87

8612.24ft: MUD VIS 49.00
8612.24ft: MUD WEIGHT 9.80
8612.47ft: MUD PH 8.90

8628.54ft: BOP DRILL
8628.54ft: RIG SERVICE
8628.54ft: SURVEY @ 8571 INC. 0.8
AZ. 345.9 TVD. 8486.86
8628.54ft: MUD VIS 56.00
8628.54ft: MUD WEIGHT 9.80
8628.54ft: MUD PH 9.10
8628.54ft: Connection at 8631.0
8628.54ft: ZDiffPressure from
SideKick sk-11-11-1250

8668.01ft: MUD VIS 51.00
8668.04ft: MUD WEIGHT 9.80
8668.14ft: MUD PH 9.10

8720.01ft: ZDIFF from DHC
8720.01ft: Connection at 8722.6
8722.21ft: SURVEY @ 8662 INC. 0.8
AZ. 293.4 TVD. 8577.85
8724.11ft: TEST LEL
8729.53ft: MUD WEIGHT 9.90
8729.53ft: MUD VIS 49.00
8729.66ft: MUD PH 9.00
8733.60ft: ZDIFF from DHC
8733.60ft: ZWOB from DHC



20:54 8960
21:00 8970
21:05 8980
21:11 8990
21:25 9000
21:31 9010
21:36 9020
21:40 9030
21:45 9040
21:49 9050
21:54 9060
22:01 9070
22:08 9080
22:23 9090
22:38 9100
22:46 9110
22:52 9120
23:01 9130
23:08 9140
23:11 9150
23:17 9160
23:24 9170

8962.01ft: MUD WEIGHT 10.00
8962.01ft: MUD VIS 48.00
8962.17ft: MUD PH 8.80

8996.39ft: Connection at 8997.4
8996.39ft: ZDIFF from DHC
8996.62ft: SURVEY @ 8937 INC. 1.0
AZ. 304.0 TVD. 8852.81

9065.39ft: MUD WEIGHT 10.00
9065.49ft: MUD VIS 52.00
9065.49ft: MUD PH 9.20

9087.83ft: Connection at 9089.0
9087.83ft: ZDIFF from DHC
9089.34ft: SURVEY @ 9029 INC. 1.1
AZ. 266.4 TVD. 8944.80

9100.89ft: ZWOB from SideKick
sk-11-11-1250

9120.21ft: MUD WEIGHT 9.95
9120.24ft: MUD VIS 52.00
9120.24ft: MUD PH 9.00

23:44 9180

23:56 9190

Jul 20, 2012

00:05 9200

00:09 9210

00:15 9220

00:23 9230

00:29 9240

00:35 9250

00:40 9260

00:44 9270

01:17 9280

01:27 9290

01:35 9300

01:41 9310

01:47 9320

01:55 9330

02:01 9340

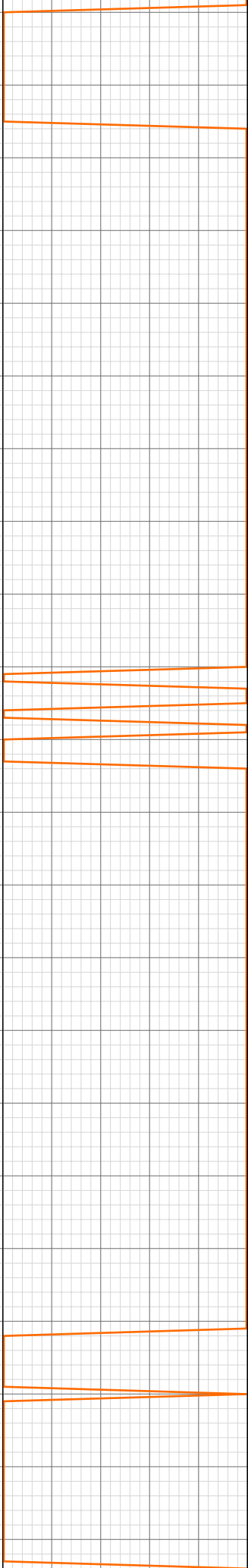
02:06 9350

02:11 9360

02:36 9370

02:51 9380

03:04 9390



9179.10ft: Connection at 9180.5
9179.10ft: ZDIFF from DHC
9182.19ft: SURVEY @9120 INC 0.7
AZI 289.6 TVD 9035.79
9188.48ft: MUD WEIGHT 9.95
9188.48ft: MUD VIS 51.00
9188.65ft: MUD PH 9.00

9270.24ft: HOOKLOAD WAS
RECALIBRATED
9270.24ft: Connection at 9272.1
9270.24ft: MUD WEIGHT 10.00
9270.24ft: MUD VIS 52.00
9270.24ft: MUD PH 8.90
9270.24ft: ZDIFF from DHC
9271.03ft: SURVEY @9212 INC 0.7
AZI 243.5 TVD 9127.78

9299.34ft: ZDIFF from DHC
9299.34ft: ZWOB from DHC

9325.10ft: MUD WEIGHT 10.00
9325.10ft: MUD VIS 52.00
9325.56ft: MUD PH 8.90

9361.45ft: Connection at 9363.7
SURVEY @9303 INC 1.4 AZI 269.3
TVD 9218.76
9361.45ft: ZDIFF from DHC

9382.81ft: MUD WEIGHT 10.00
9382.81ft: MUD VIS 51.00
9382.81ft: MUD PH 8.80

03:12 9400

03:17 9410

03:22 9420

03:28 9430

03:33 9440

03:41 9450

04:11 9460

04:30 9470

04:53 9480

05:00 9490

05:03 9500

05:08 9510

05:14 9520

05:21 9530

05:26 9540

05:45 9550

06:03 9560

06:19 9570

06:31 9580

06:36 9590

06:40 9600

06:44 9610

9452.69ft: Connection at 9455.3
9452.69ft: MUD WEIGHT 10.00
9452.69ft: MUD VIS 52.00
9452.69ft: MUD PH 9.00
9452.69ft: ZDIFF from DHC
9454.23ft: SURVEY @9395 INC 1.1
AZI 249.8 TVD 9310.74

9481.43ft: ZDIFF from DHC
9486.16ft: MUD WEIGHT 10.10
9486.65ft: MUD VIS 51.00
9486.65ft: MUD PH 8.90

9543.93ft: Connection at 9546.8
9546.92ft: SURVEY @9486 INC 0.8
AZI 297.0 TVD 9401.73
9551.48ft: HGAS_021: LOCATION1
High LEL Alarm
9551.48ft: HGAS_004: Horn Muted
9551.64ft: HGAS_023: LOCATION2
Low LEL Alarm
9551.64ft: HGAS_024: LOCATION2
High LEL Alarm
9551.64ft: HGAS_004: Horn Muted
9557.58ft: MUD VIS 50.00
9557.58ft: MUD WEIGHT 10.10
9557.58ft: MUD PH 8.90

9576.08ft: ZWOB from SideKick
sk-11-11-1250
9576.08ft: ZDiffPressure from
SideKick sk-11-11-1250
9576.15ft: PUMP OUT CELLAR

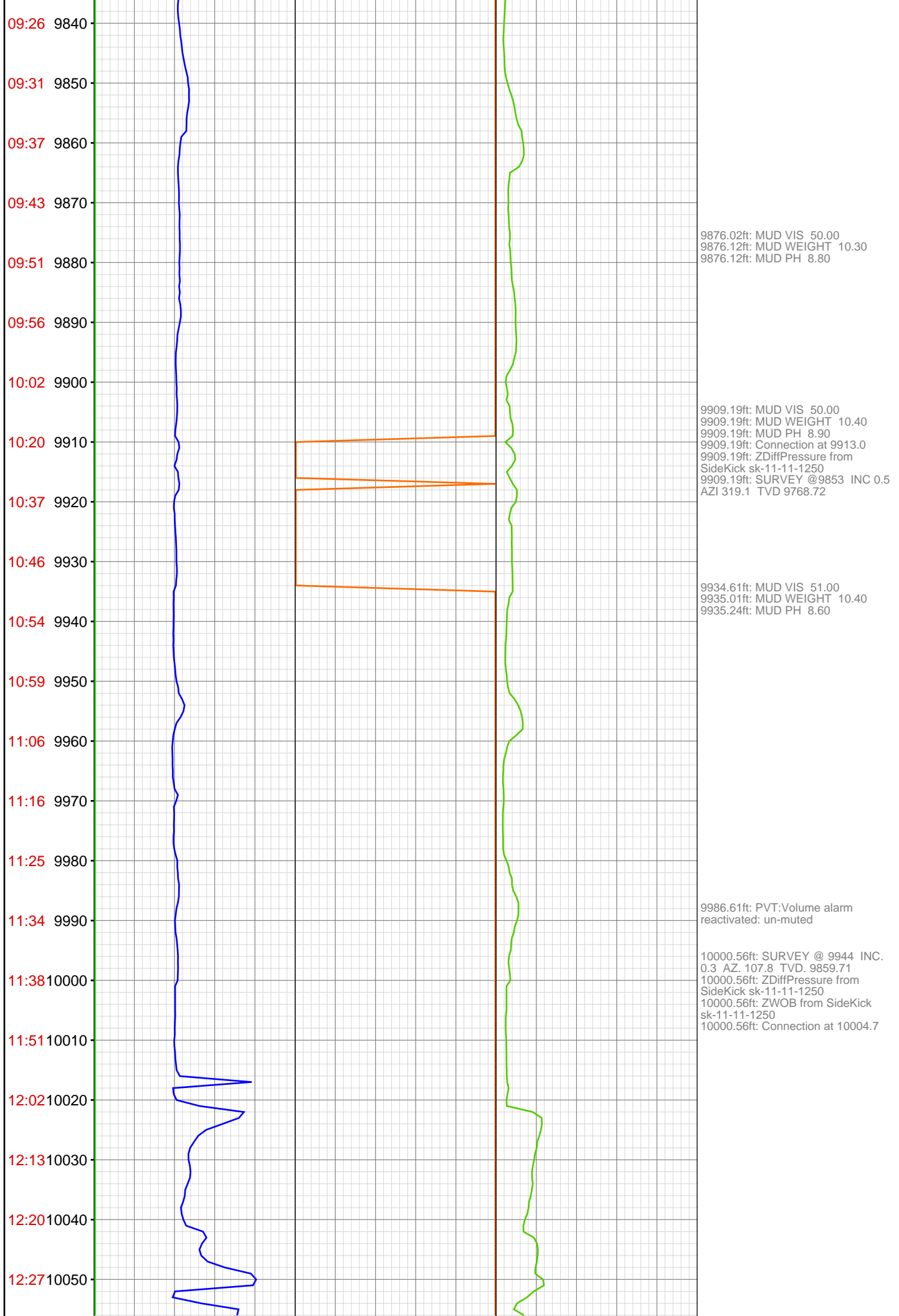
06:48 9620
06:55 9630
07:15 9640
07:19 9650
07:25 9660
07:31 9670
07:40 9680
07:44 9690
07:48 9700
07:54 9710
08:04 9720
08:18 9730
08:22 9740
08:27 9750
08:31 9760
08:38 9770
08:43 9780
08:46 9790
08:51 9800
08:57 9810
09:15 9820
09:21 9830

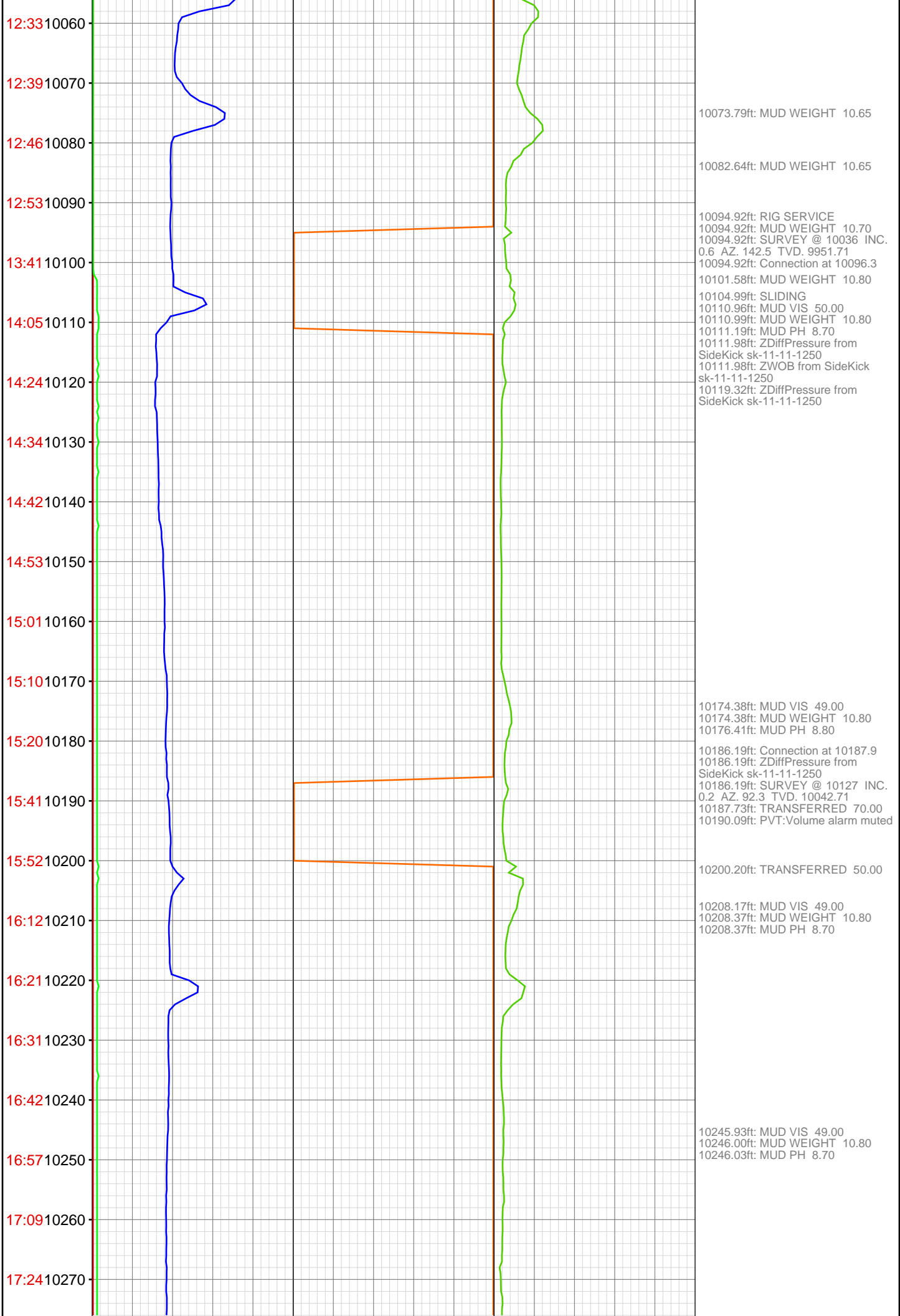
9635.17ft: MUD VIS 50.00
9635.17ft: MUD WEIGHT 10.50
9635.17ft: MUD WEIGHT 10.05
9635.17ft: MUD PH 8.60
9635.17ft: Connection at 9638.4
9635.17ft: Connection at 9638.4
9635.17ft: SURVEY @9578 INC 0.6
AZI 347.7 TVD 9493.73
9635.17ft: ZDiffPressure from
SideKick sk-11-11-1250
9635.17ft: ZWOB from SideKick
sk-11-11-1250

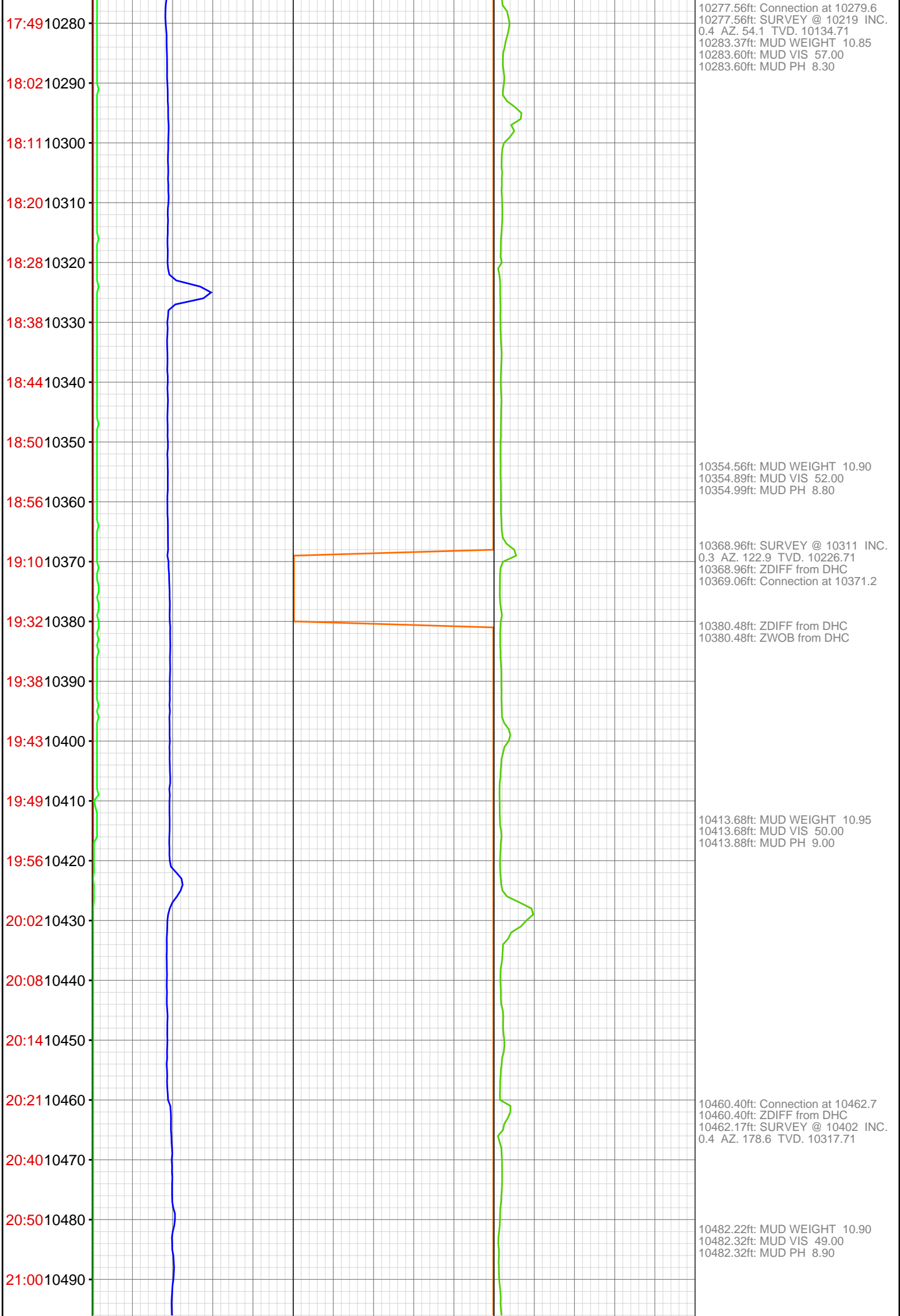
9726.05ft: TRANSFERRED 80.00
9726.54ft: Connection at 9730.0
9726.54ft: ZDiffPressure from
SideKick sk-11-11-1250

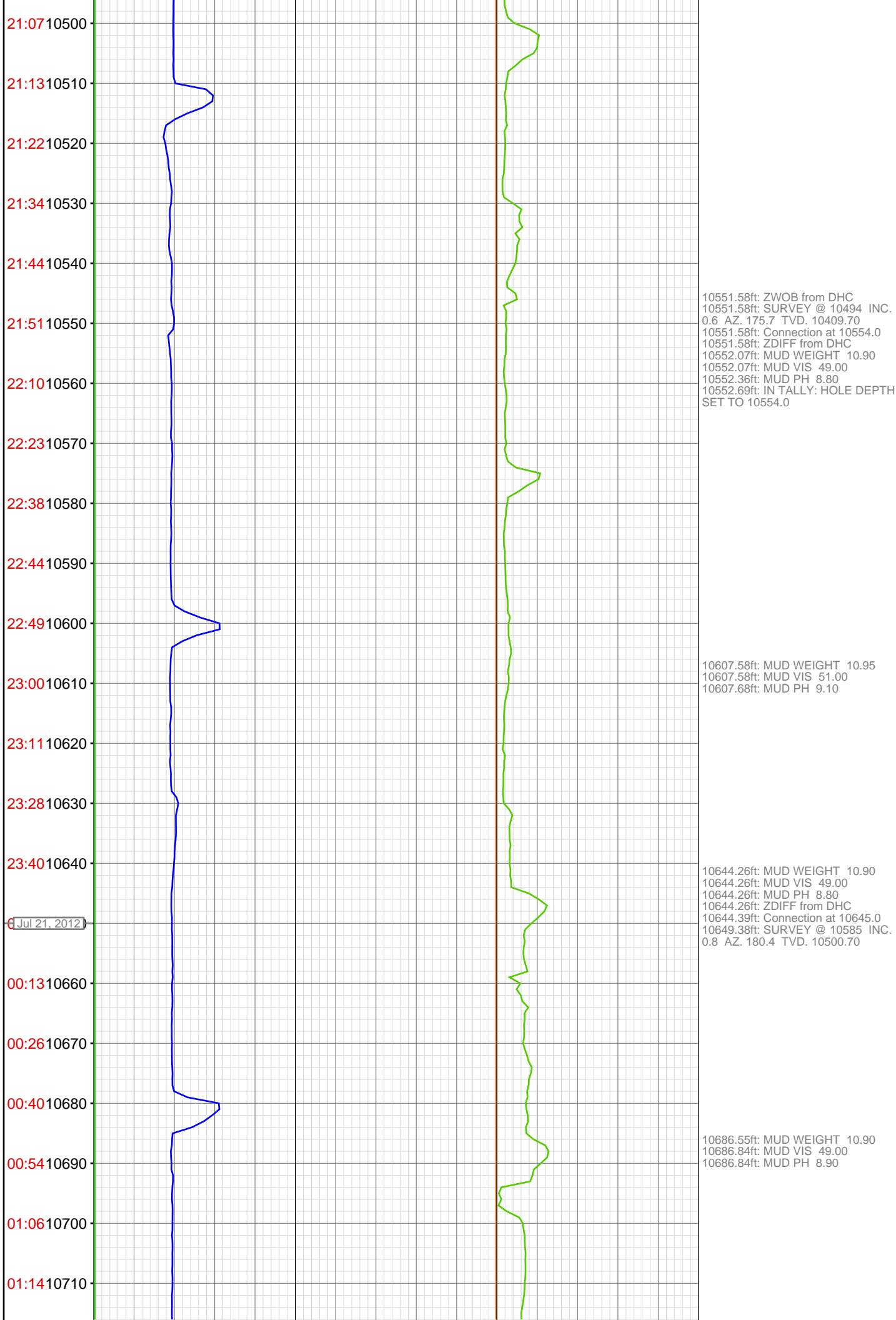
9752.76ft: PVT:Flow and volume
alarm reactivated: un-muted
9756.00ft: MUD VIS 50.00
9757.28ft: MUD WEIGHT 10.05
9757.55ft: MUD PH 8.60

9817.88ft: PVT:Flow and volume
alarm muted
9817.88ft: Connection at 9821.5
9817.88ft: ZDiffPressure from
SideKick sk-11-11-1250
9817.88ft: ZWOB from SideKick
sk-11-11-1250
9817.88ft: SURVEY @9761 INC 0.5
AZI 348.8 TVD 9676.72









01:22 10720
01:31 10730
01:46 10740
01:52 10750
01:59 10760
02:07 10770
02:14 10780
02:23 10790
02:30 10800
02:36 10810
02:45 10820
03:00 10830
03:06 10840
03:14 10850
03:23 10860
03:36 10870
03:45 10880
05:27 10890
05:37 10900
05:48 10910
06:13 10920
06:28 10930



10735.56ft: Connection at 10736.5
10735.56ft: SURVEY @10676 INC
0.7 AZI 181.4 TVD 10591.69

10751.35ft: MUD WEIGHT 10.90
10751.35ft: MUD VIS 51.00
10751.77ft: MUD PH 8.90

10826.77ft: SURVEY @10767 INC
1.1 AZI 188.3 TVD 10682.68
10826.77ft: Connection at 10827.9
10826.77ft: MUD WEIGHT 10.90
10826.77ft: MUD VIS 49.00
10826.77ft: MUD PH 8.70

10835.07ft: ATTEMPTED TO ZERO
TOTAL STROKES ATTEMPTED TO
SET HOLE DEPTH TO 0.00 feet

10869.59ft: ZDIFF from DHC
10869.59ft: ZWOB from DHC
10873.66ft: IN TALLY: HOLE DEPTH
SET TO 1674.8

10888.48ft: MUD WEIGHT 10.90
10888.48ft: MUD VIS 48.00
10888.48ft: MUD PH 8.80
10888.48ft: MUD WEIGHT 10.95
10888.48ft: MUD VIS 49.00
10888.48ft: MUD PH 8.80
10888.48ft: ZDIFF from DHC

10917.62ft: SURVEY @10858 INC
1.2 AZI 218.3 TVD 10773.66
10917.62ft: MUD VIS 49.00
10917.62ft: MUD WEIGHT 10.80
10917.62ft: MUD PH 8.70
10917.62ft: ZDiffPressure from
SideKick sk-11-11-1250
10917.62ft: ZWOB from SideKick
sk-11-11-1250
10917.62ft: Connection at 10919.0
10925.13ft: HGAS_021: LOCATION1
High LEL Alarm
10925.30ft: HGAS_004: Horn Muted
10925.59ft: HGAS_023: LOCATION2
Low LEL Alarm
10925.59ft: HGAS_024: LOCATION2

