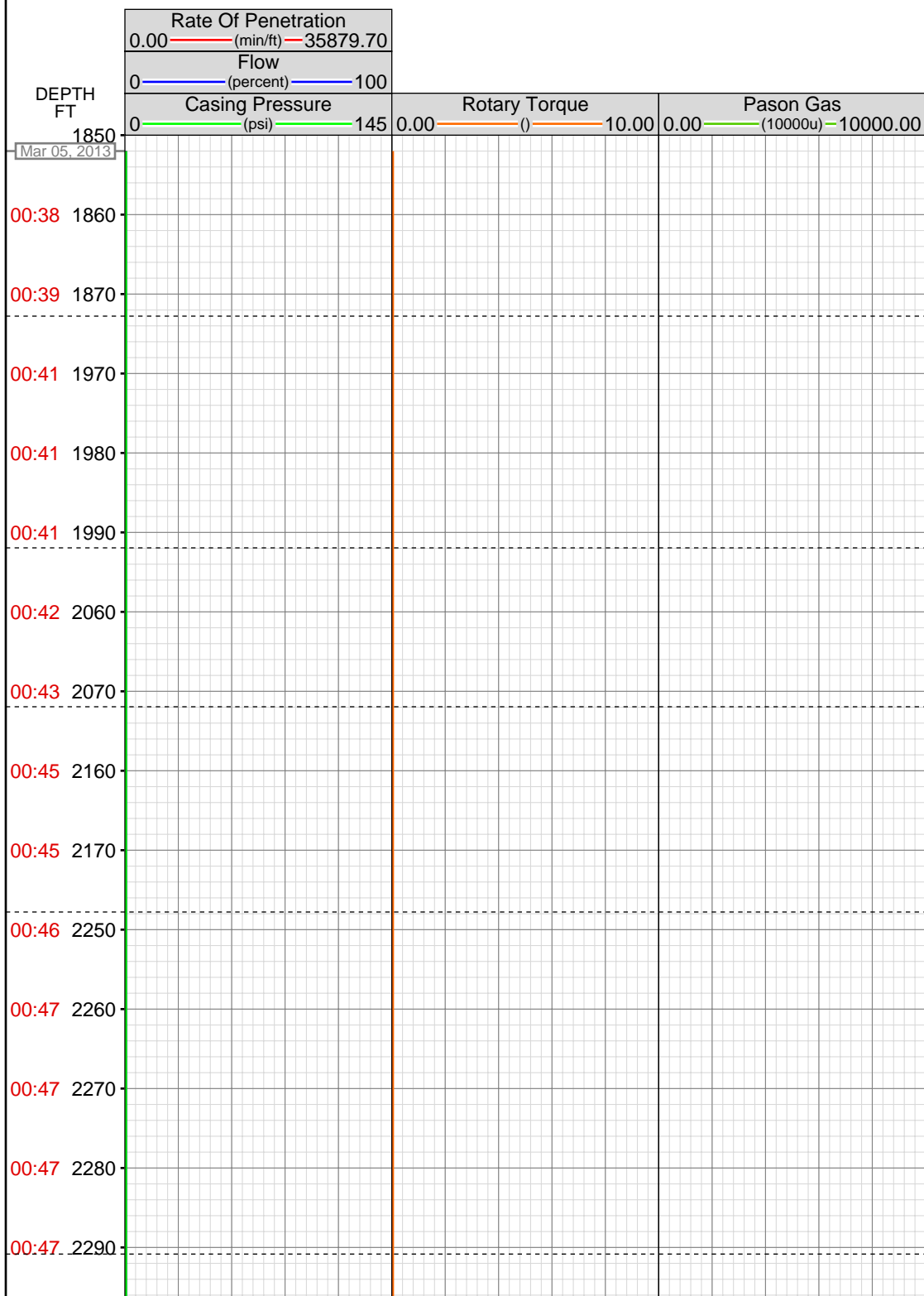


DataHub EDR Log

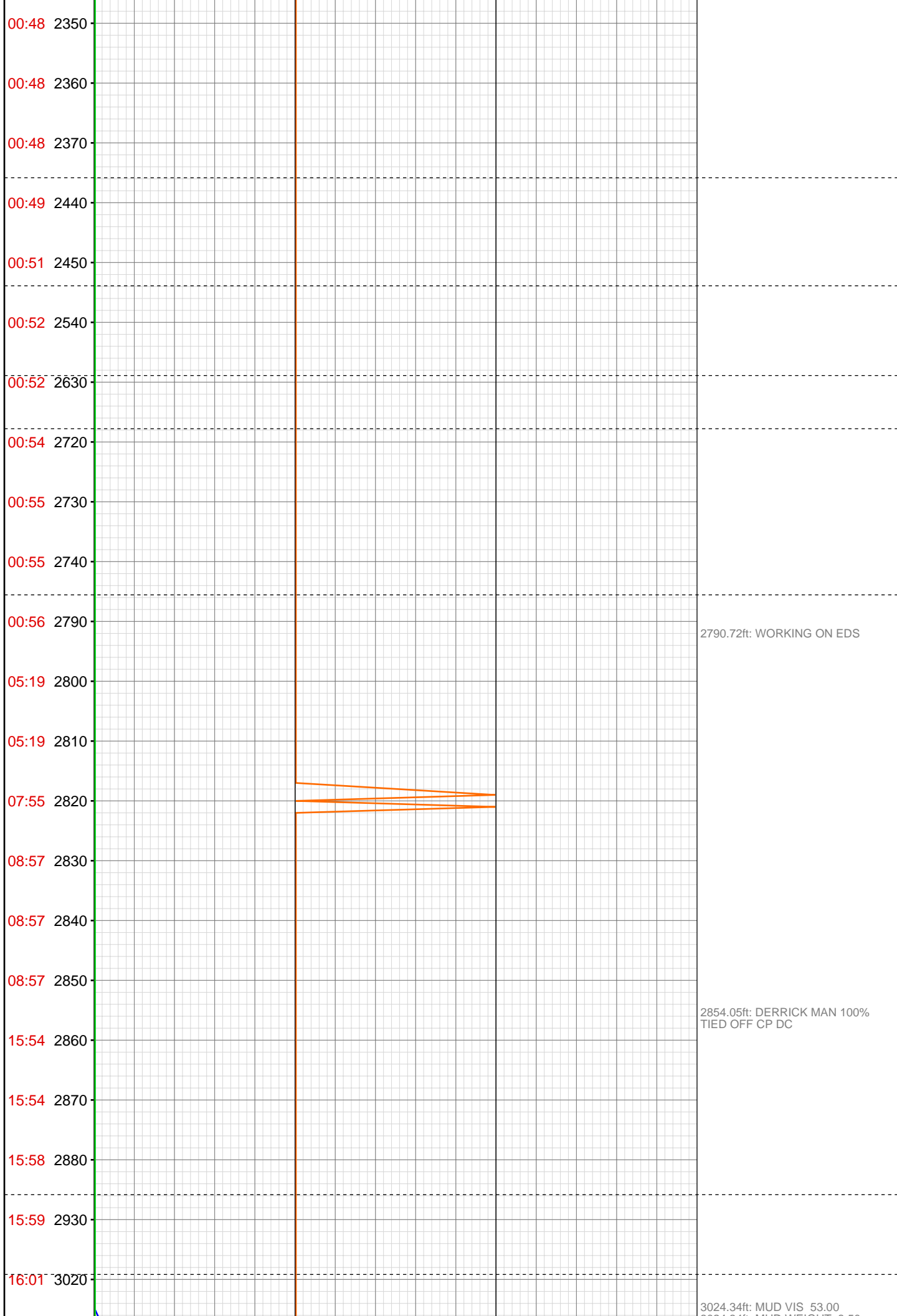
Thu Mar 14, 2013 08:14:07
Well Dossier 1362406444
Marilyn Tucker

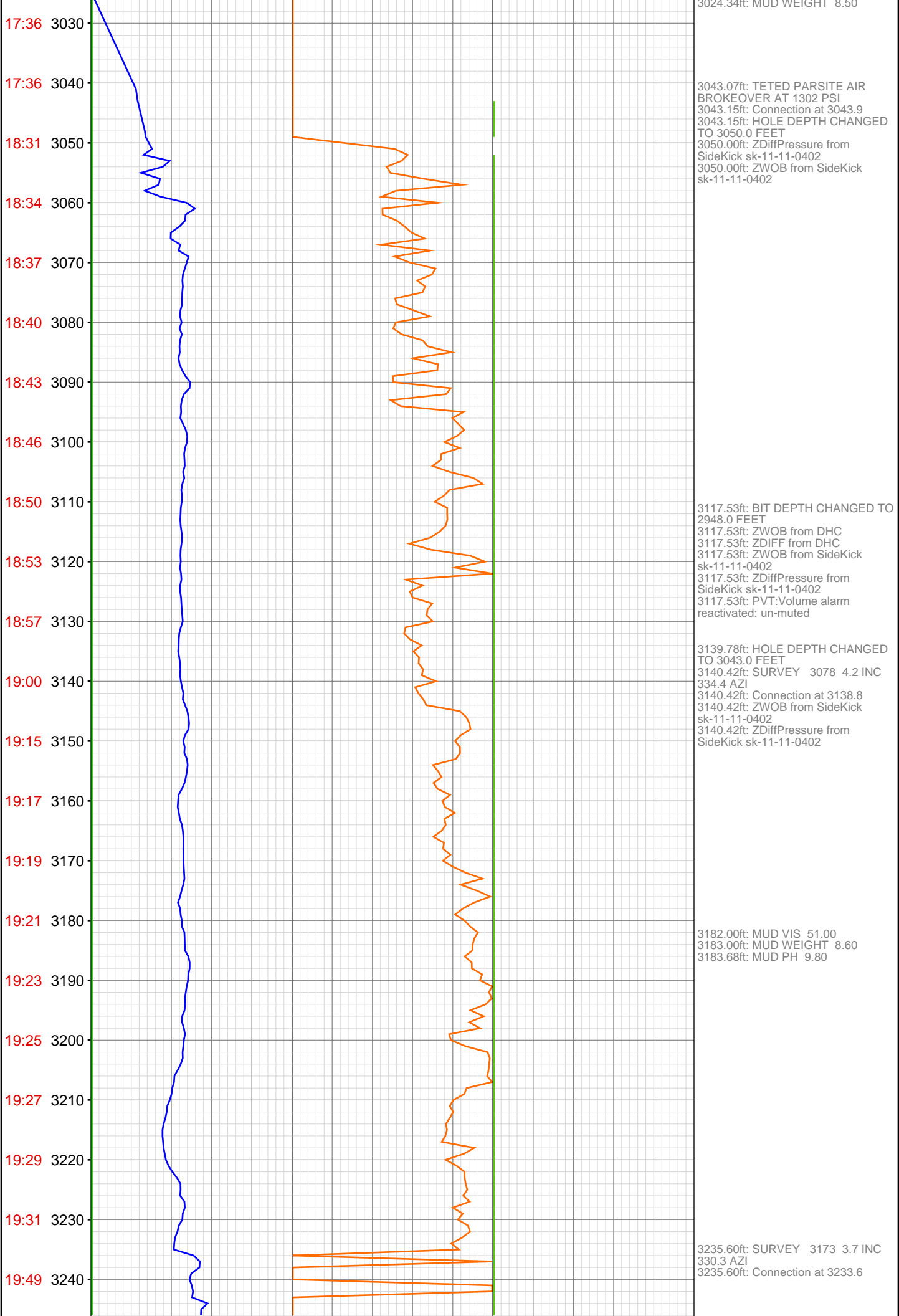
OPERATOR: EnCana Oil & Gas (USA), Inc.
WELL: SG 8512C-24 L24 496
FIELD:
LOCATION: SEC 24 TWP 4S RNG 96W
COUNTRY: USA
RIG: Pat-UTI 330

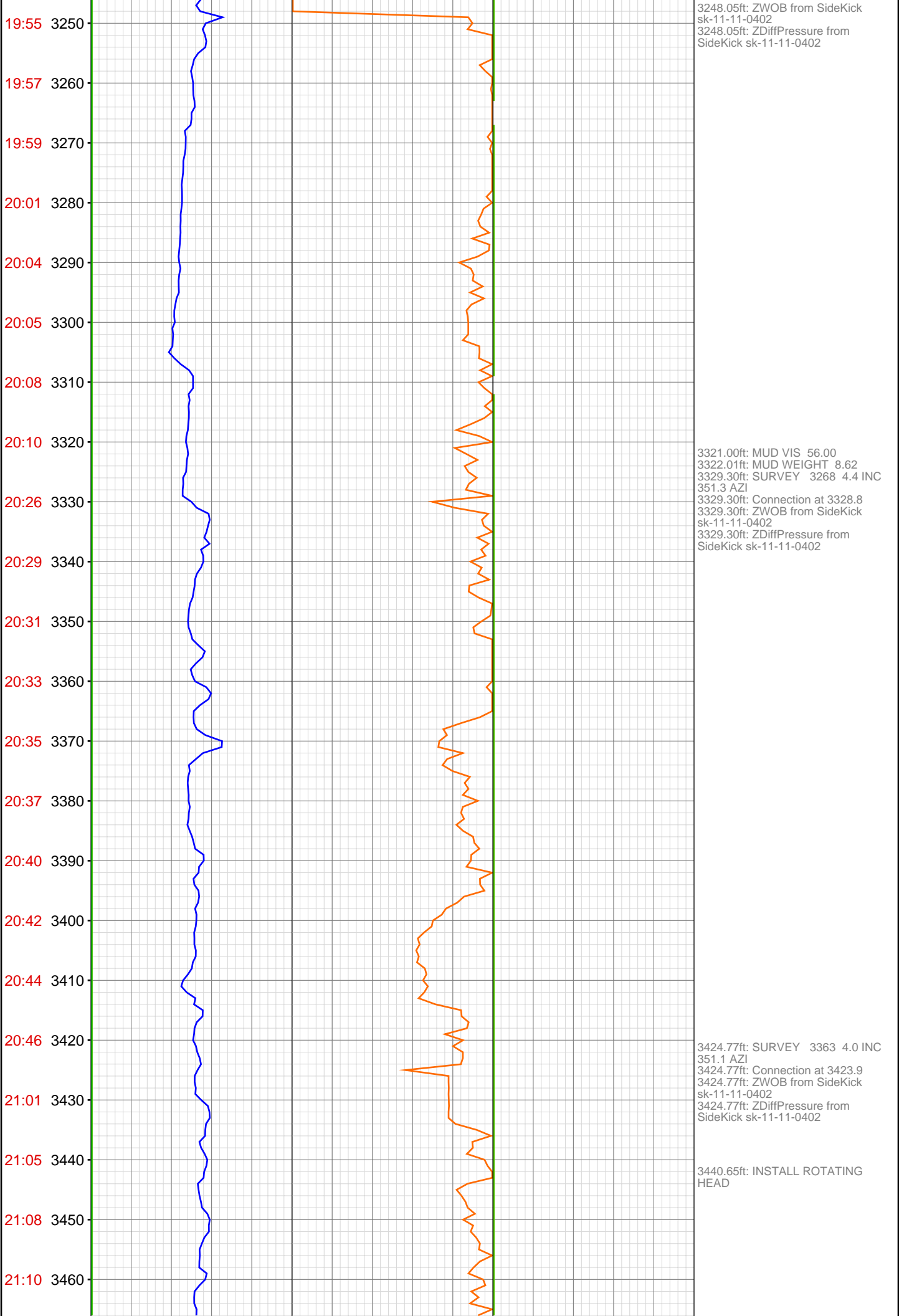
CONTRACTOR: Patterson-UTI Drilling Company
UNIQUE WELL ID: 0504521152
SPUD DATE: Mar 05, 2013 18:30
RELEASE DATE: Mar 13, 2013 09:00

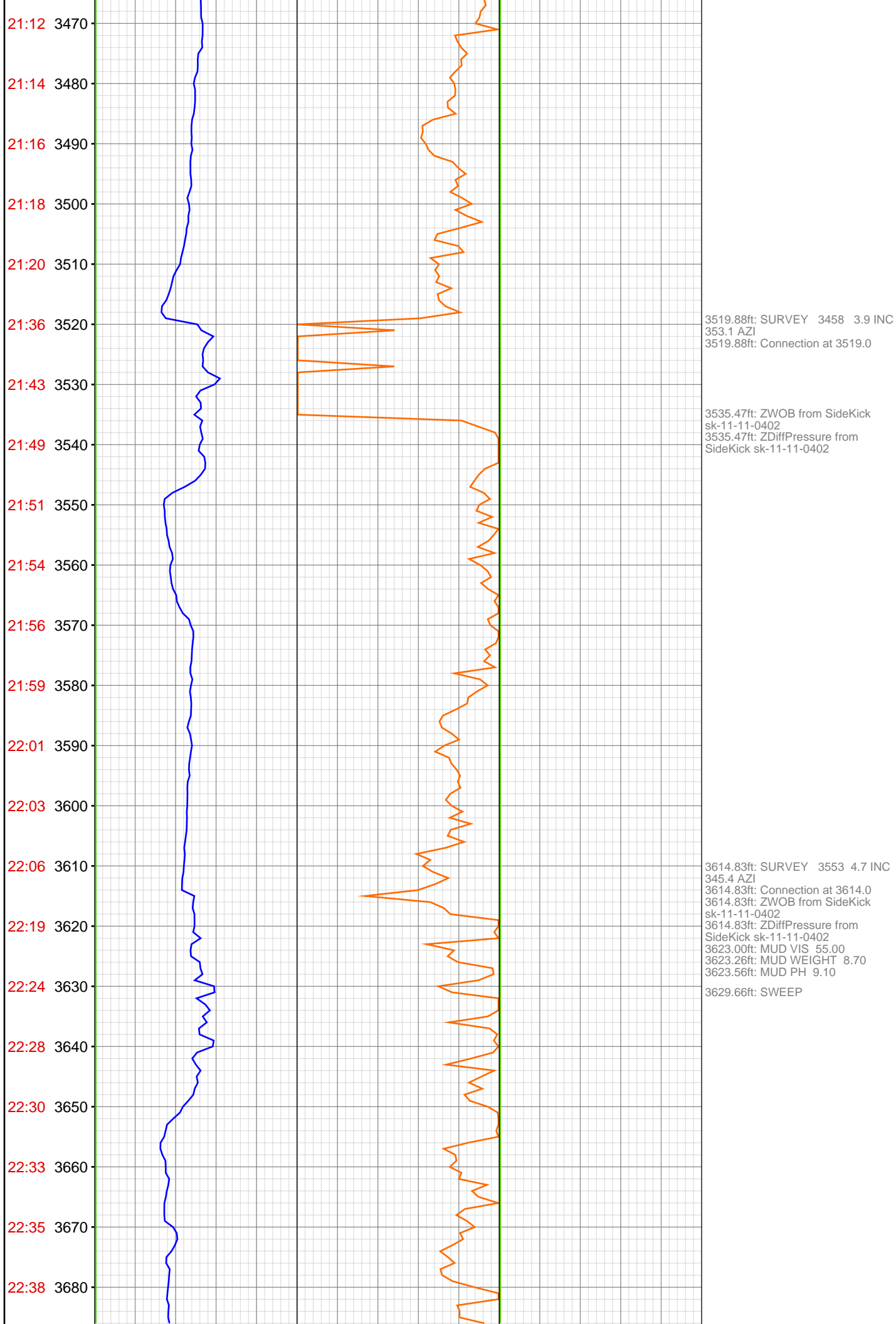


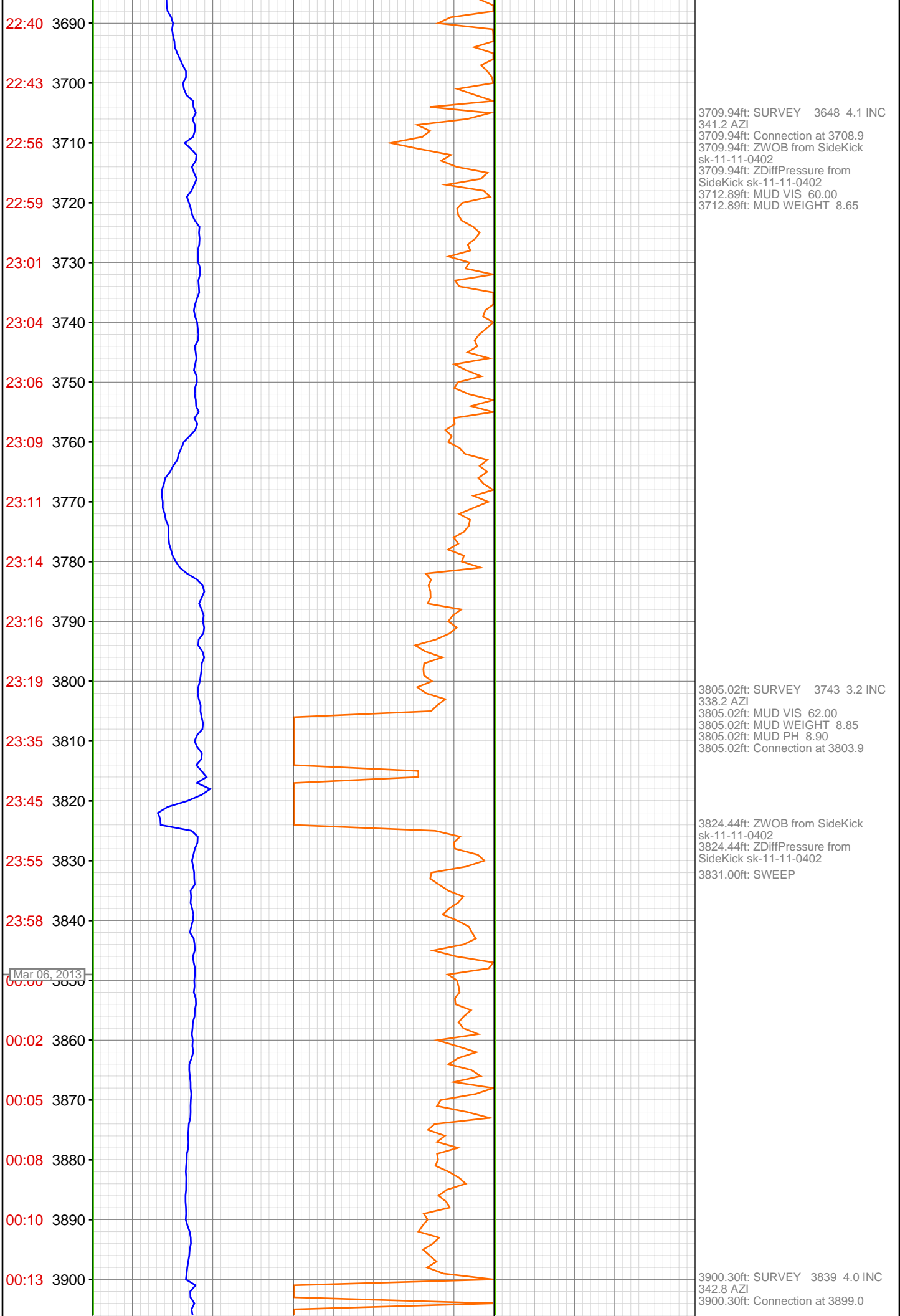
MEMOS

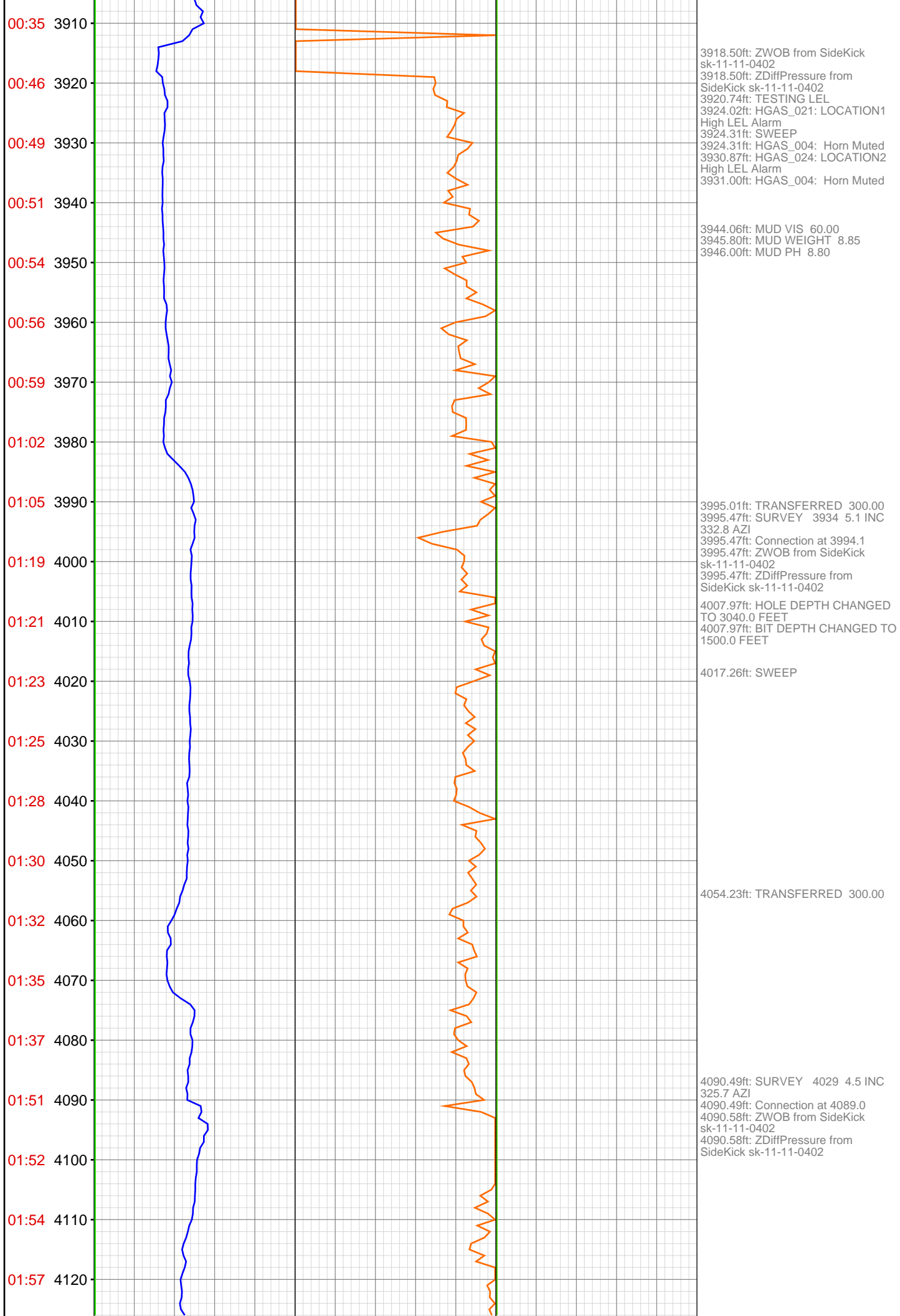


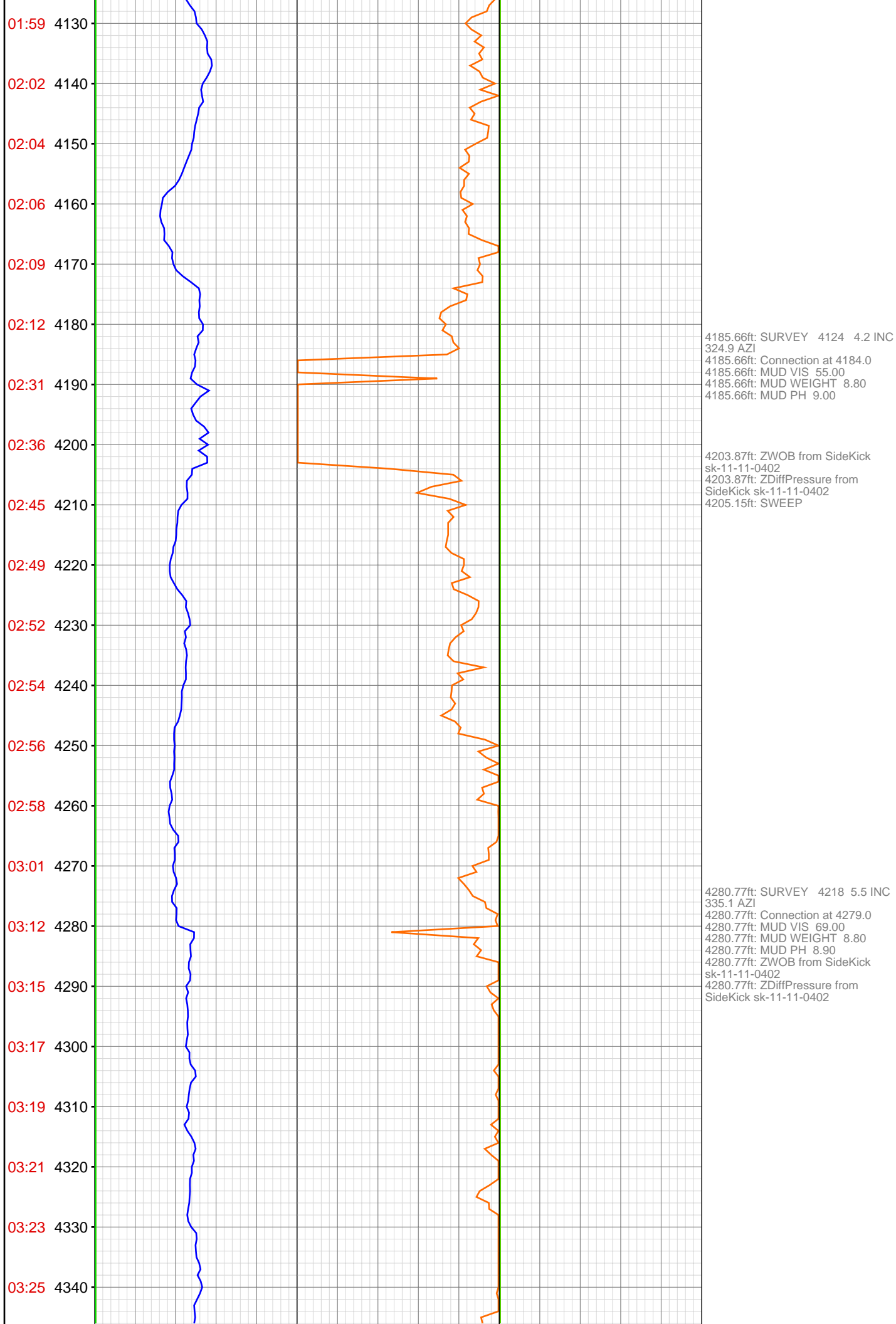




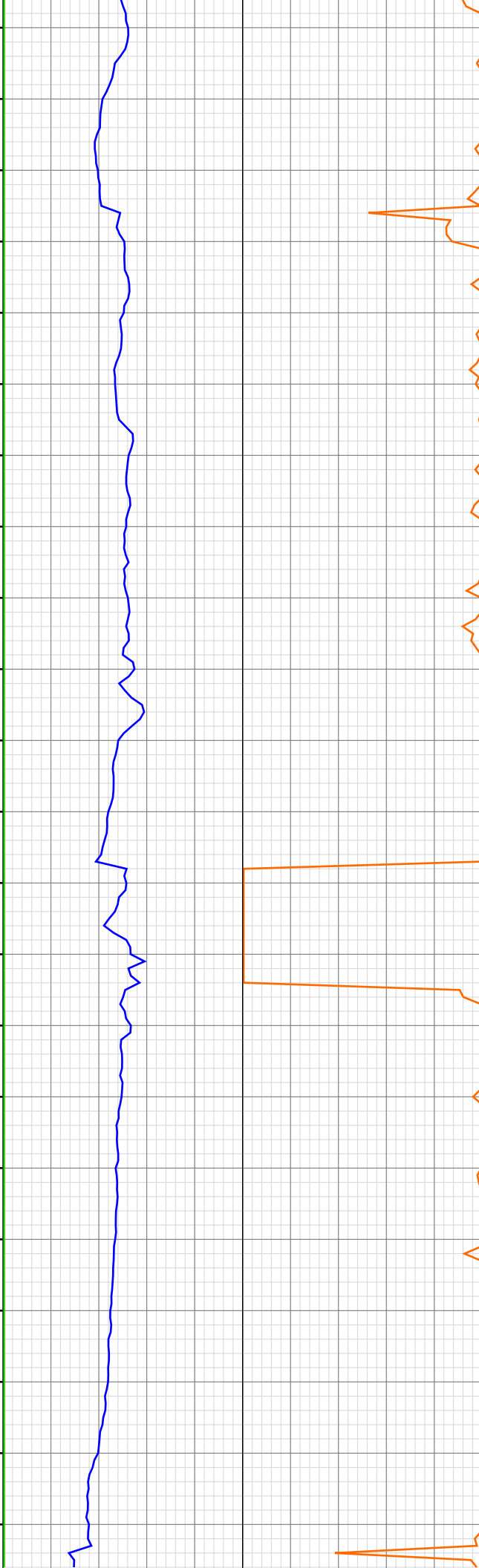








03:27 4350
03:29 4360
03:31 4370
03:43 4380
03:46 4390
03:48 4400
03:50 4410
03:51 4420
03:53 4430
03:55 4440
03:57 4450
03:59 4460
04:13 4470
04:20 4480
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04:41 4560

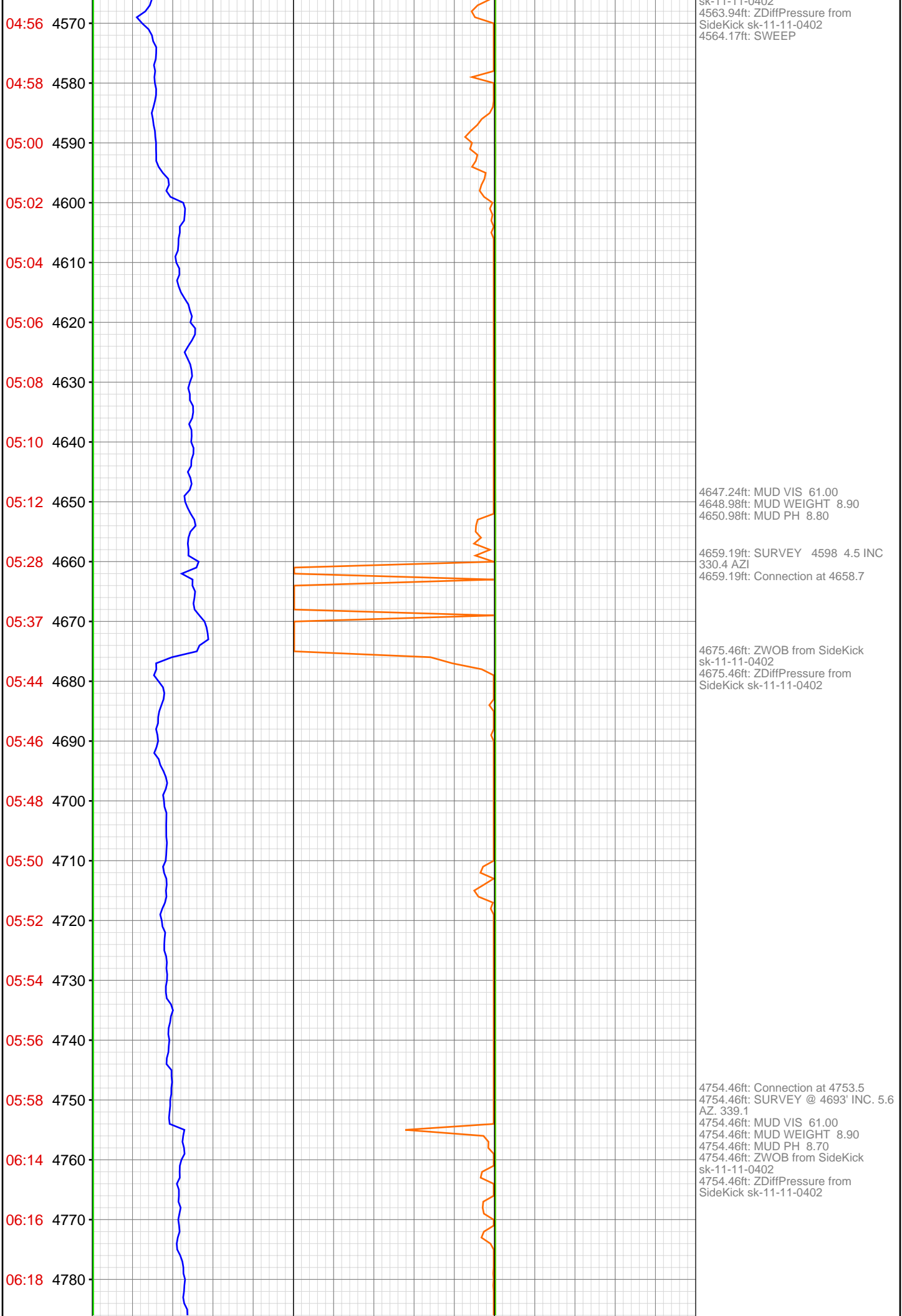


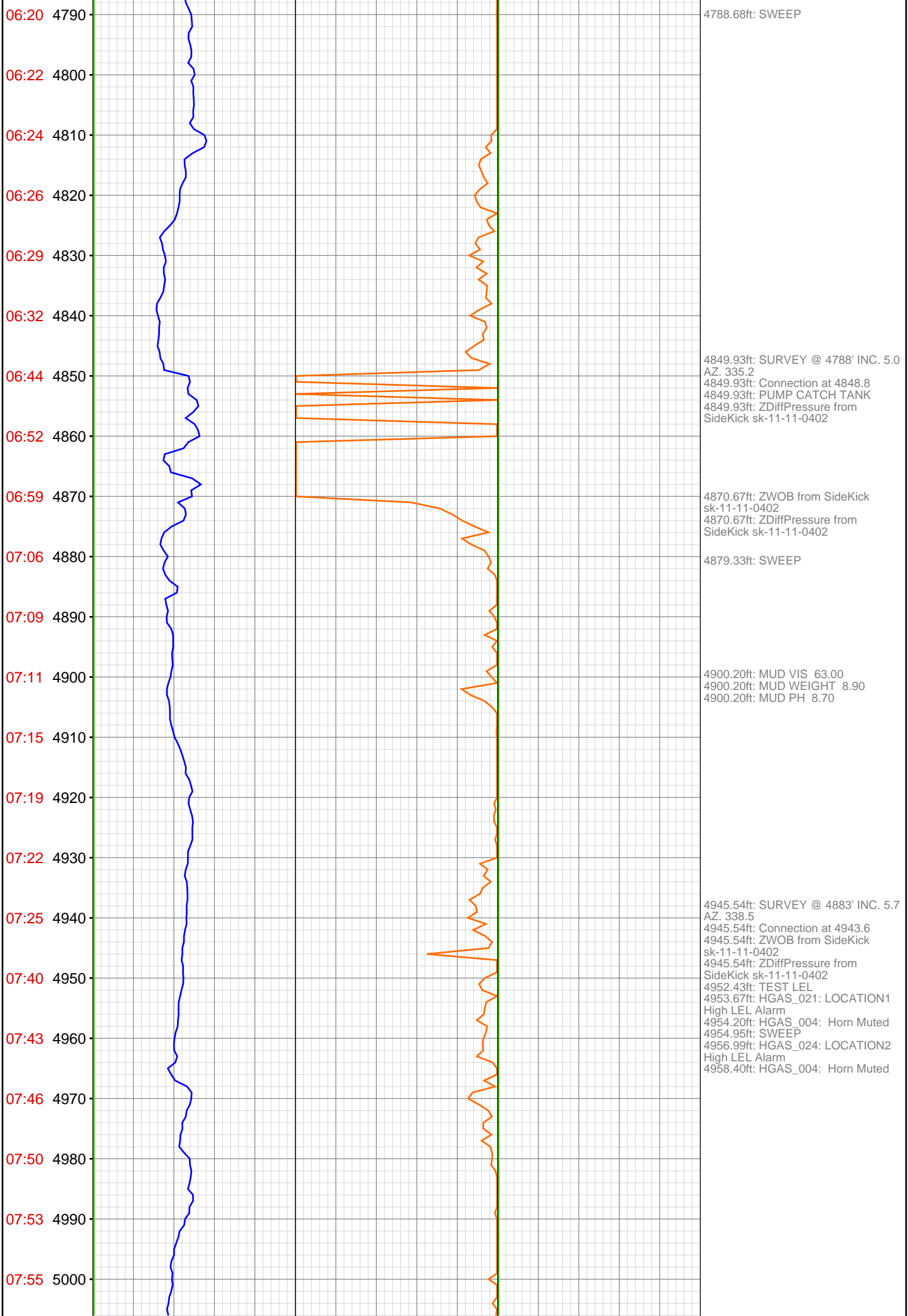
4375.95ft: SURVEY 4313 5.1 INC
332 AZI
4375.95ft: Connection at 4373.9
4375.95ft: ZWOB from SideKick
sk-11-11-0402
4375.95ft: ZDiffPressure from
SideKick sk-11-11-0402

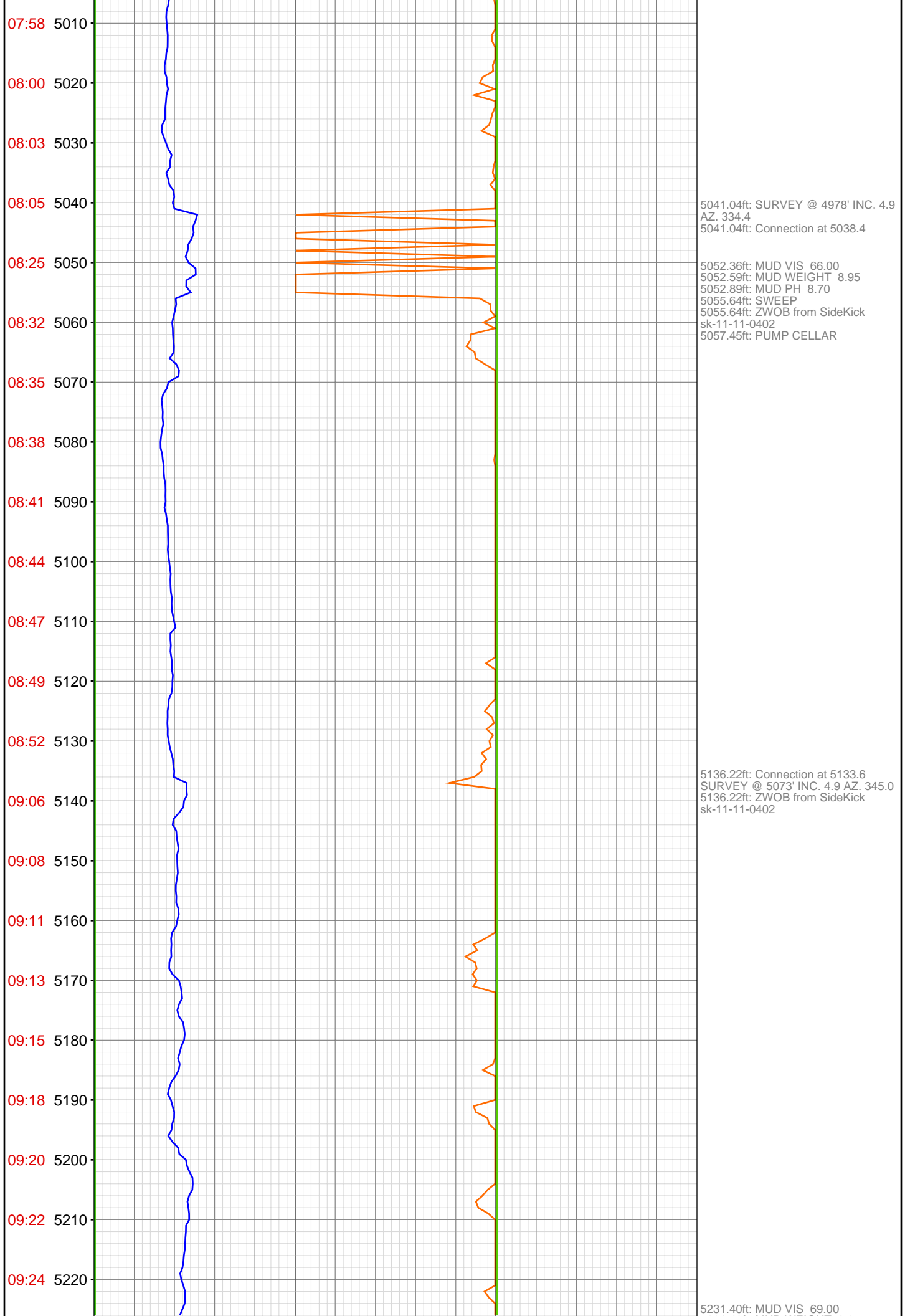
4468.01ft: IN TALLY: HOLE DEPTH
SET TO 4468.8
4470.83ft: SURVEY 4408 4.6 INC
327.5 AZI
4470.83ft: Connection at 4468.8
4470.83ft: MUD VIS 55.00
4470.83ft: MUD WEIGHT 8.85
4470.83ft: MUD PH 8.90

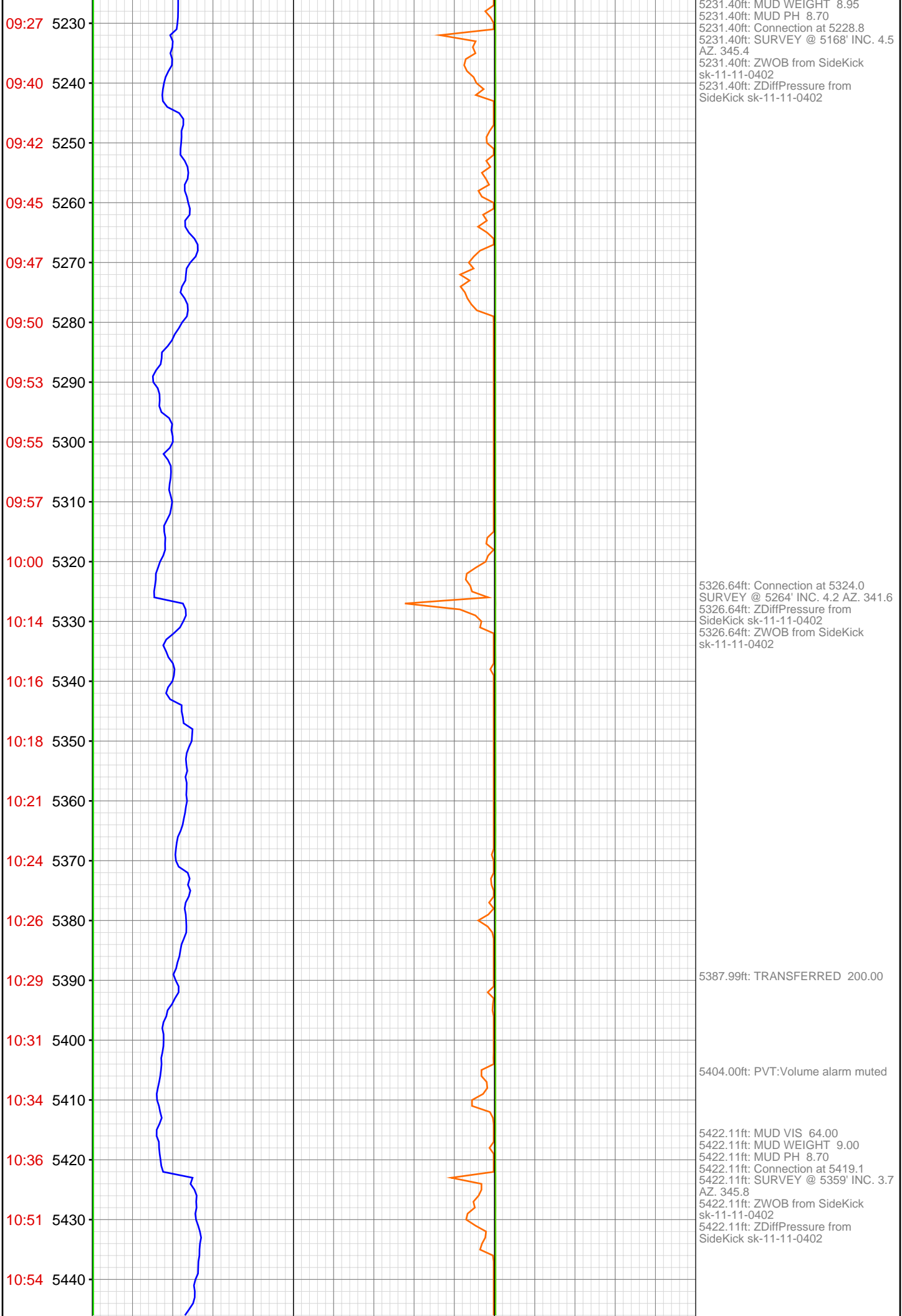
4484.58ft: ZWOB from SideKick
sk-11-11-0402
4484.58ft: ZDiffPressure from
SideKick sk-11-11-0402

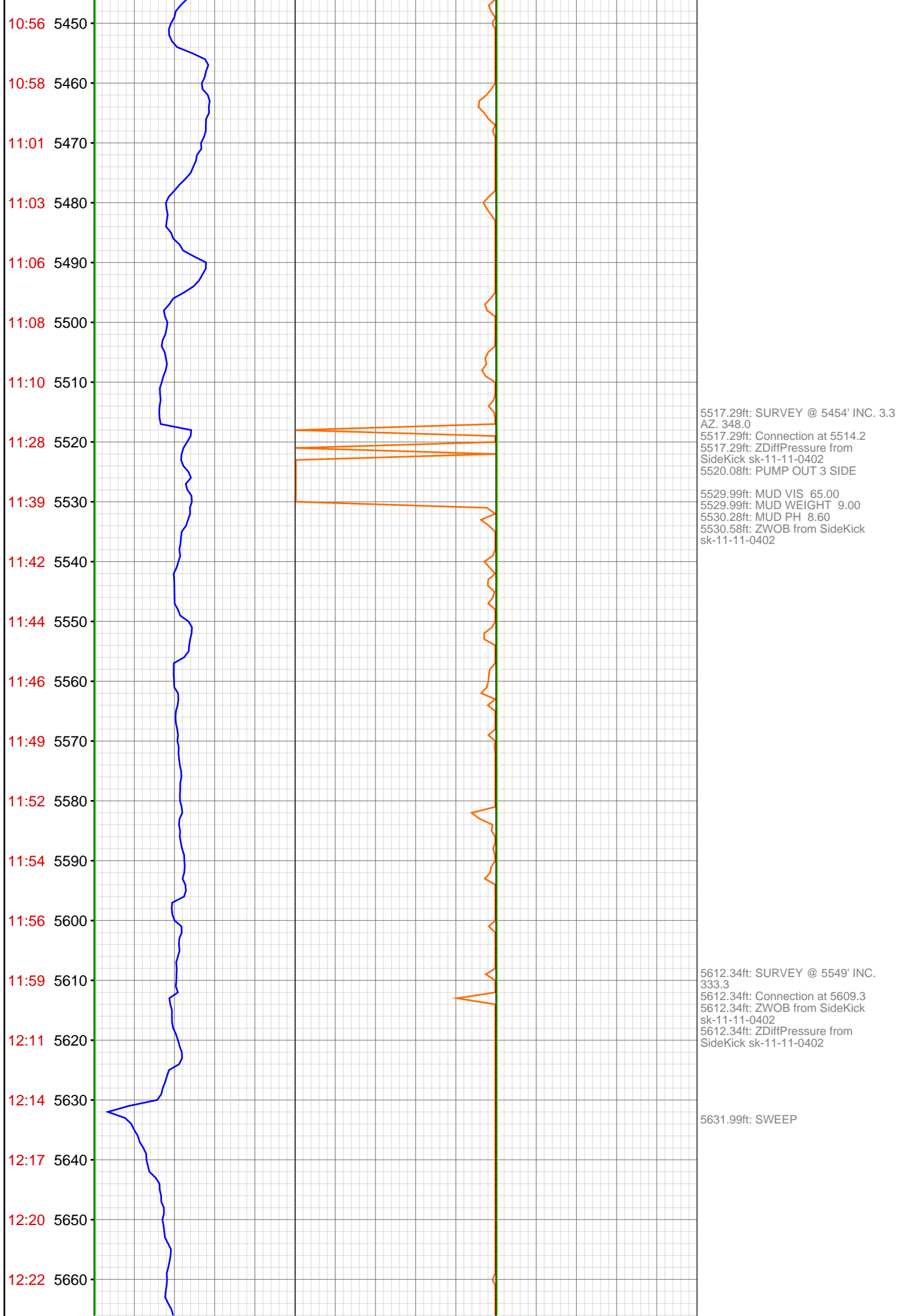
4563.94ft: SURVEY 4503 5.1 INC
345.3 AZI
4563.94ft: Connection at 4563.7
4563.94ft: ZWOB from SideKick
sk-11-11-0402



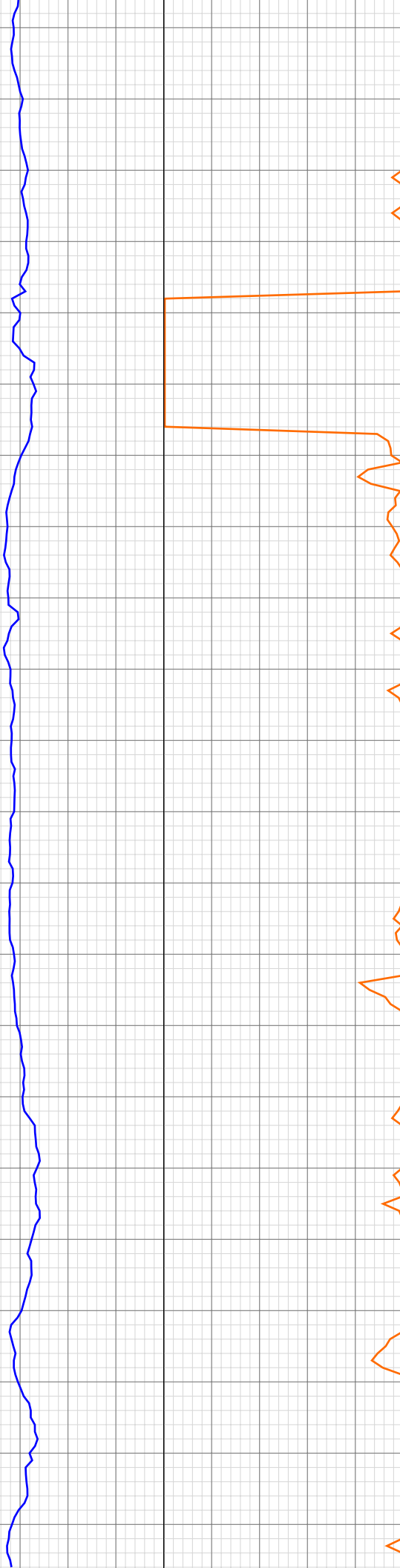








12:24 5670
12:27 5680
12:29 5690
12:31 5700
12:51 5710
12:58 5720
13:06 5730
13:09 5740
13:11 5750
13:14 5760
13:16 5770
13:19 5780
13:22 5790
13:24 5800
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13:48 5840
13:51 5850
13:53 5860
13:56 5870
14:00 5880



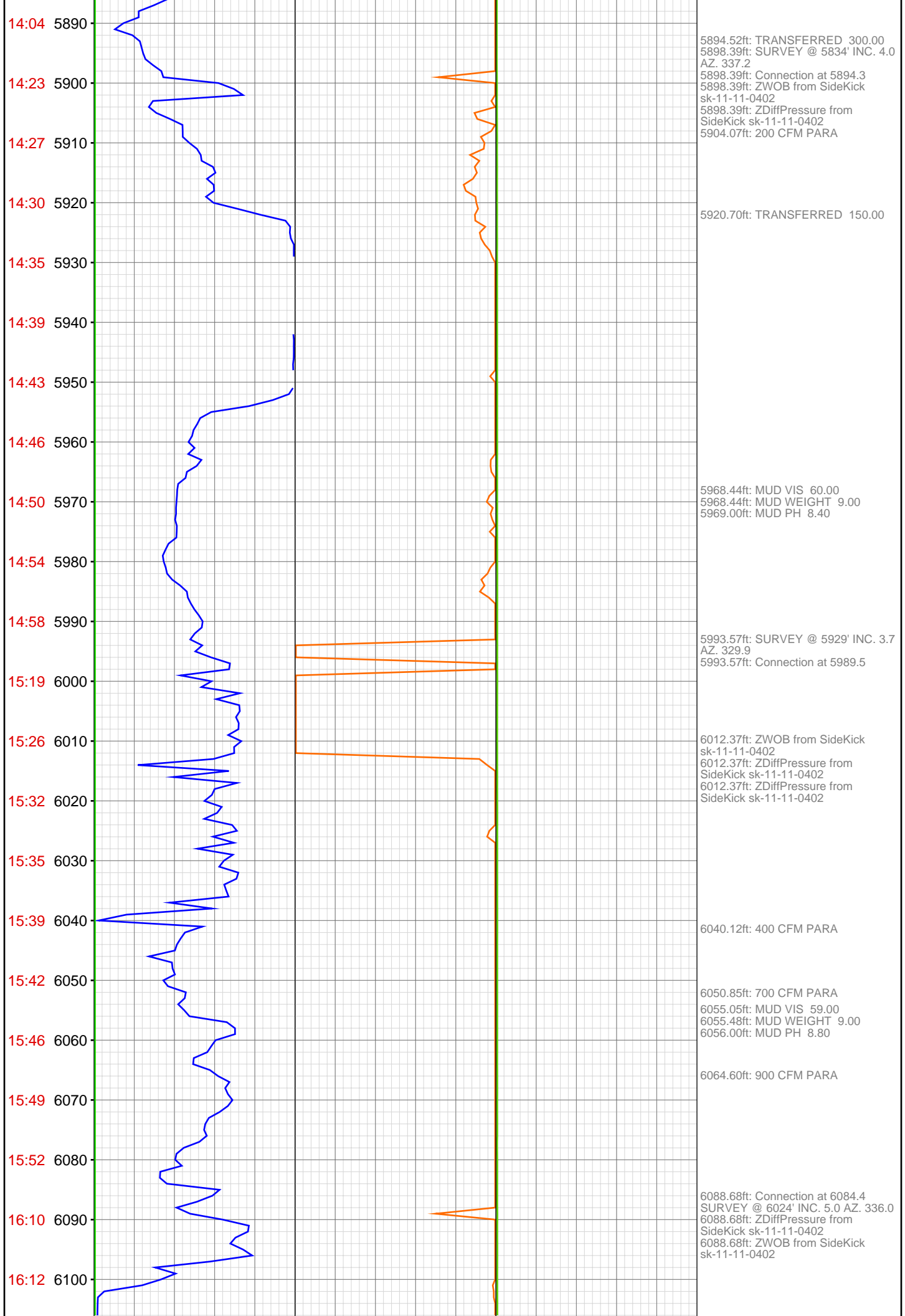
5707.58ft: MUD VIS 66.00
5707.58ft: MUD WEIGHT 9.00
5707.58ft: MUD PH 8.50
5707.58ft: SURVEY @ 5644' INC. 3.5
AZ. 324.6
5707.58ft: Connection at 5704.3
5707.58ft: ZDiffPressure from
SideKick sk-11-11-0402

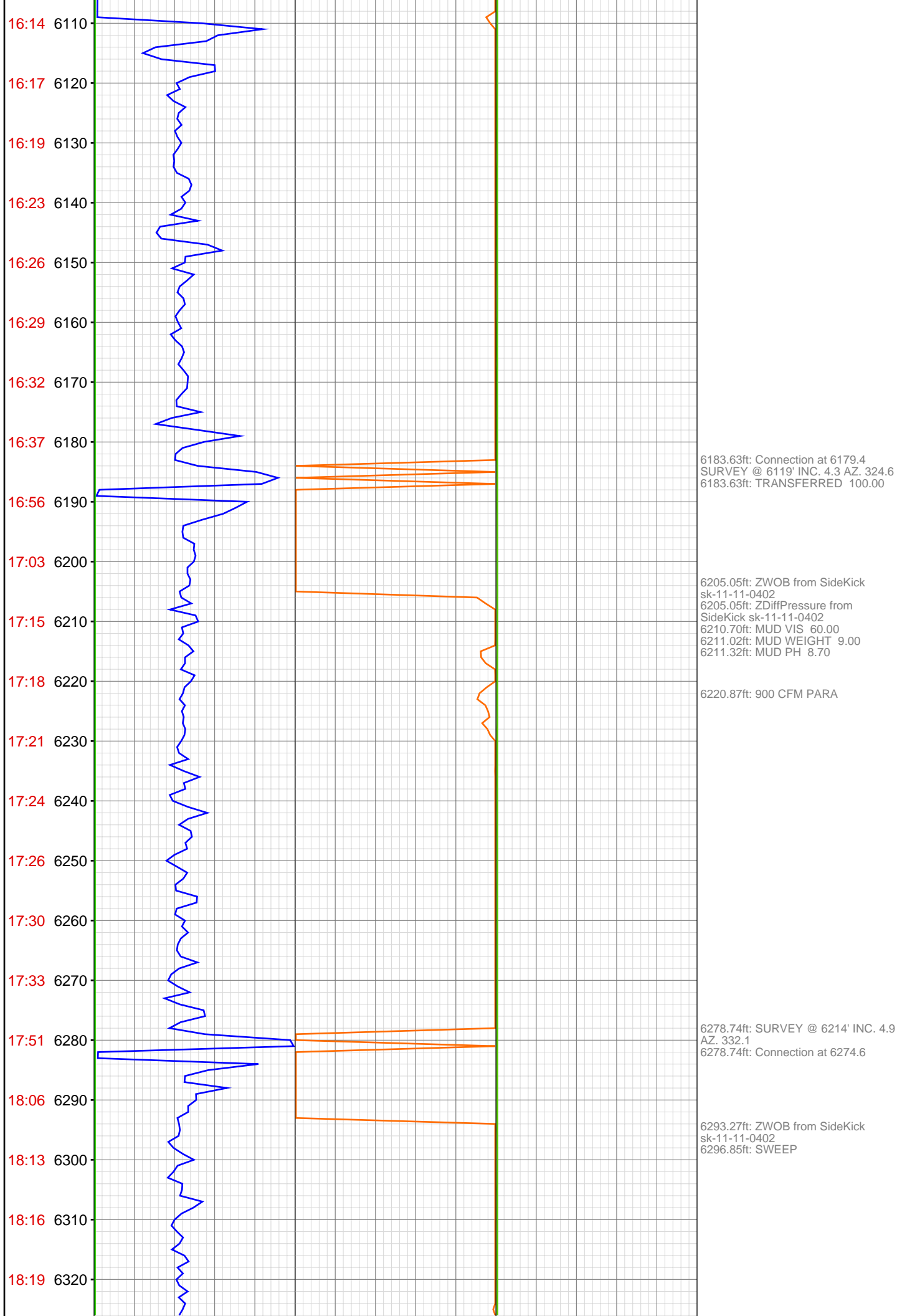
5726.77ft: ZDiffPressure from
SideKick sk-11-11-0402
5726.77ft: ZWOB from SideKick
sk-11-11-0402

5738.39ft: SWEEP

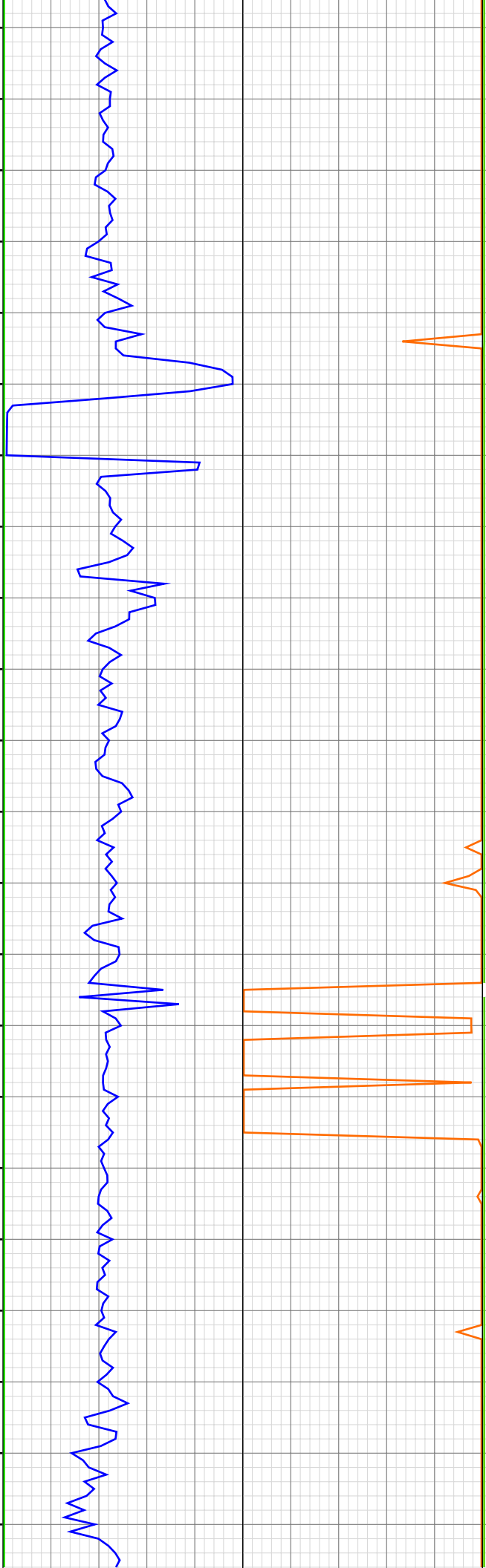
5803.15ft: SURVEY @ 5739' INC. 4.3
AZ. 340.9
5803.15ft: Connection at 5799.3
5803.15ft: ZWOB from SideKick
sk-11-11-0402
5803.15ft: ZDiffPressure from
SideKick sk-11-11-0402

5841.40ft: MUD VIS 63.00
5841.99ft: MUD WEIGHT 9.05
5842.29ft: MUD PH 8.40





18:23 6330
18:26 6340
18:29 6350
18:33 6360
18:37 6370
18:56 6380
18:59 6390
19:02 6400
19:06 6410
19:10 6420
19:14 6430
19:18 6440
19:21 6450
19:24 6460
19:57 6470
20:11 6480
20:18 6490
20:21 6500
20:25 6510
20:29 6520
20:33 6530
20:36 6540



6347.01ft: MUD VIS 46.00
6347.21ft: MUD WEIGHT 9.00

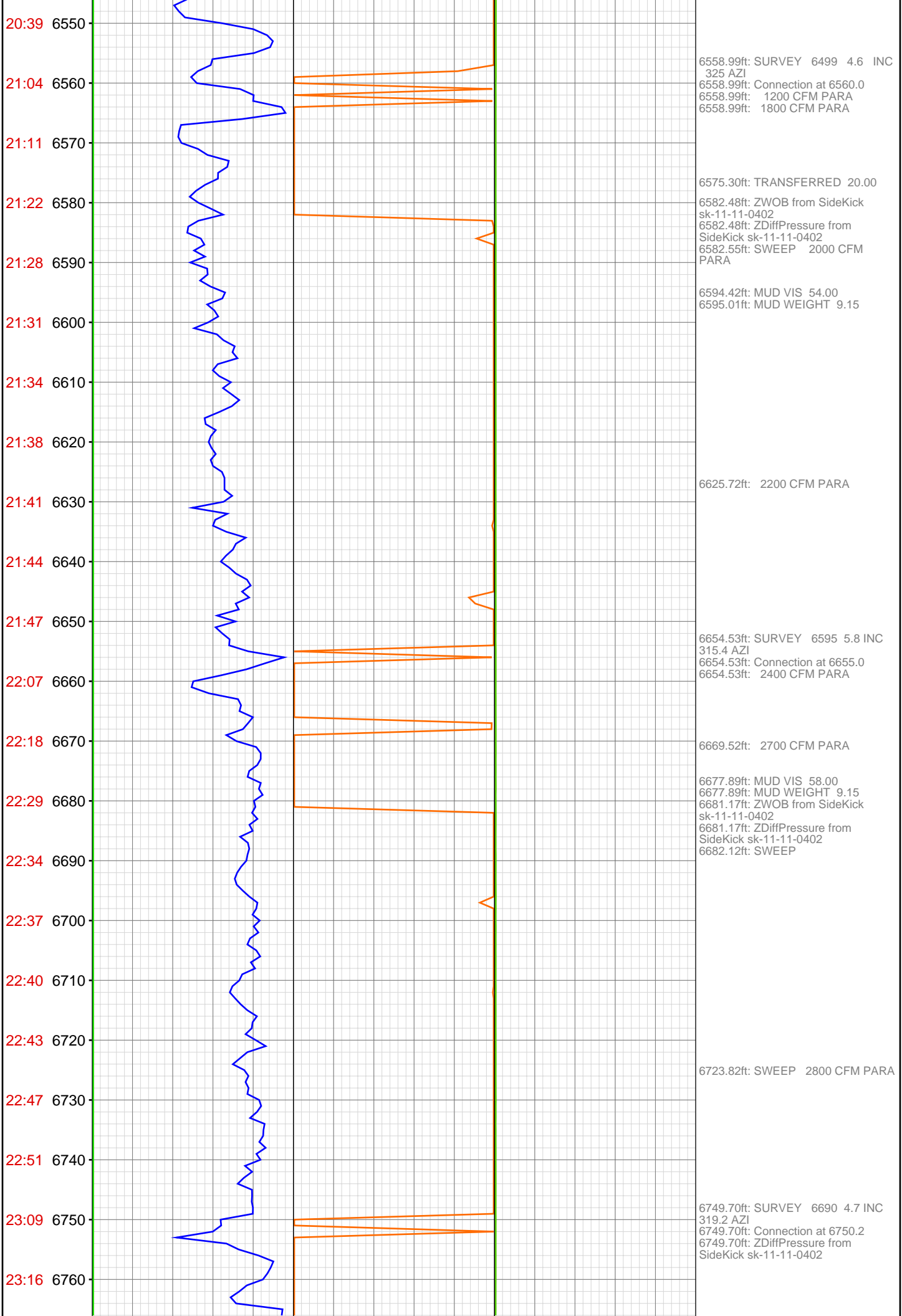
6354.99ft: MUD PH 8.70

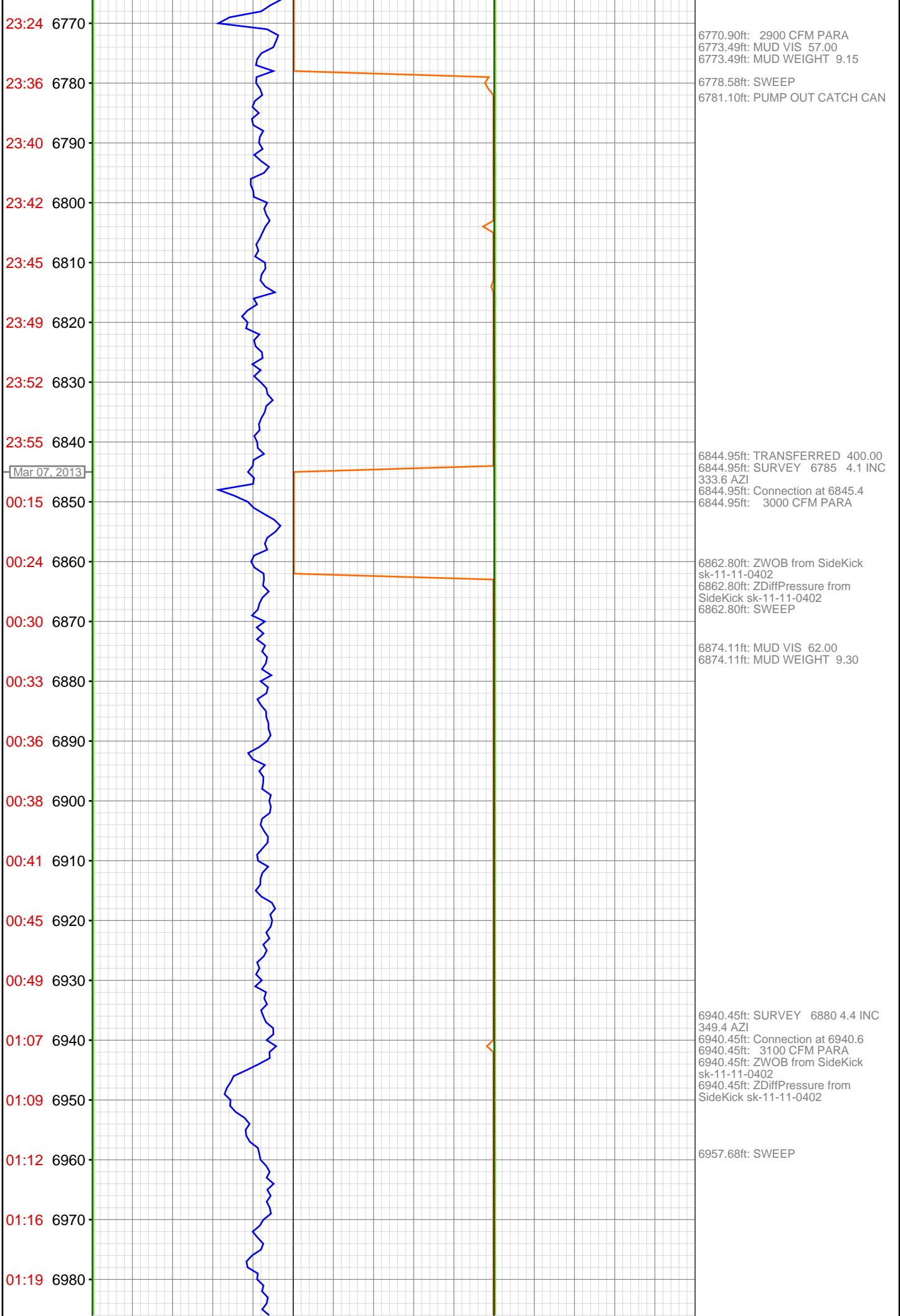
6373.85ft: SURVEY 6309 5.4 INC
341 AZI
6373.85ft: Connection at 6369.7
6373.85ft: ZWOB from SideKick
sk-11-11-0402
6373.85ft: ZDiffPressure from
SideKick sk-11-11-0402
6380.12ft: TEST LELS
6380.12ft: HGAS_021: LOCATION1
High LEL Alarm
6380.71ft: HGAS_004: Horn Muted
6383.40ft: SWEEP
6383.40ft: HGAS_024: LOCATION2
High LEL Alarm
6383.40ft: HGAS_004: Horn Muted
6391.14ft: 900 CFM PARA

6469.03ft: 1000 CFM PARA
6469.03ft: SURVEY 6404 4.7 INC
331.5 AZI
6469.03ft: MUD VIS 50.00
6469.03ft: MUD WEIGHT 9.10
6469.03ft: Connection at 6464.8
6469.03ft: ZDiffPressure from
SideKick sk-11-11-0402
6470.14ft: IN TALLY: HOLE DEPTH
SET TO 6464.8

6489.37ft: SWEEP

6506.69ft: TRANSFERRED 60.00





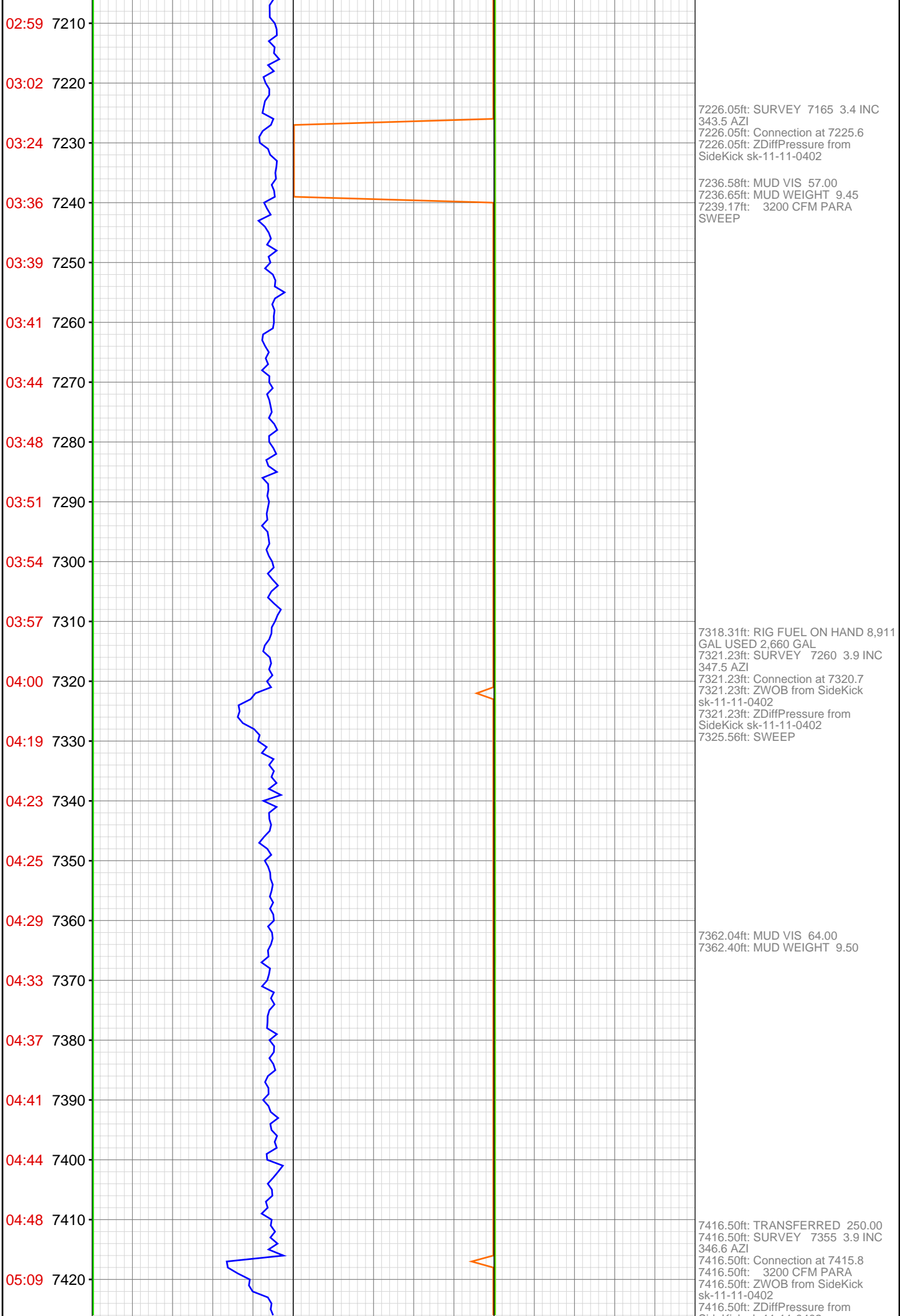
01:22 6990
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01:32 7030
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01:53 7050
01:56 7060
01:59 7070
02:03 7080
02:05 7090
02:08 7100
02:11 7110
02:13 7120
02:32 7130
02:36 7140
02:39 7150
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02:49 7180
02:52 7190
02:55 7200

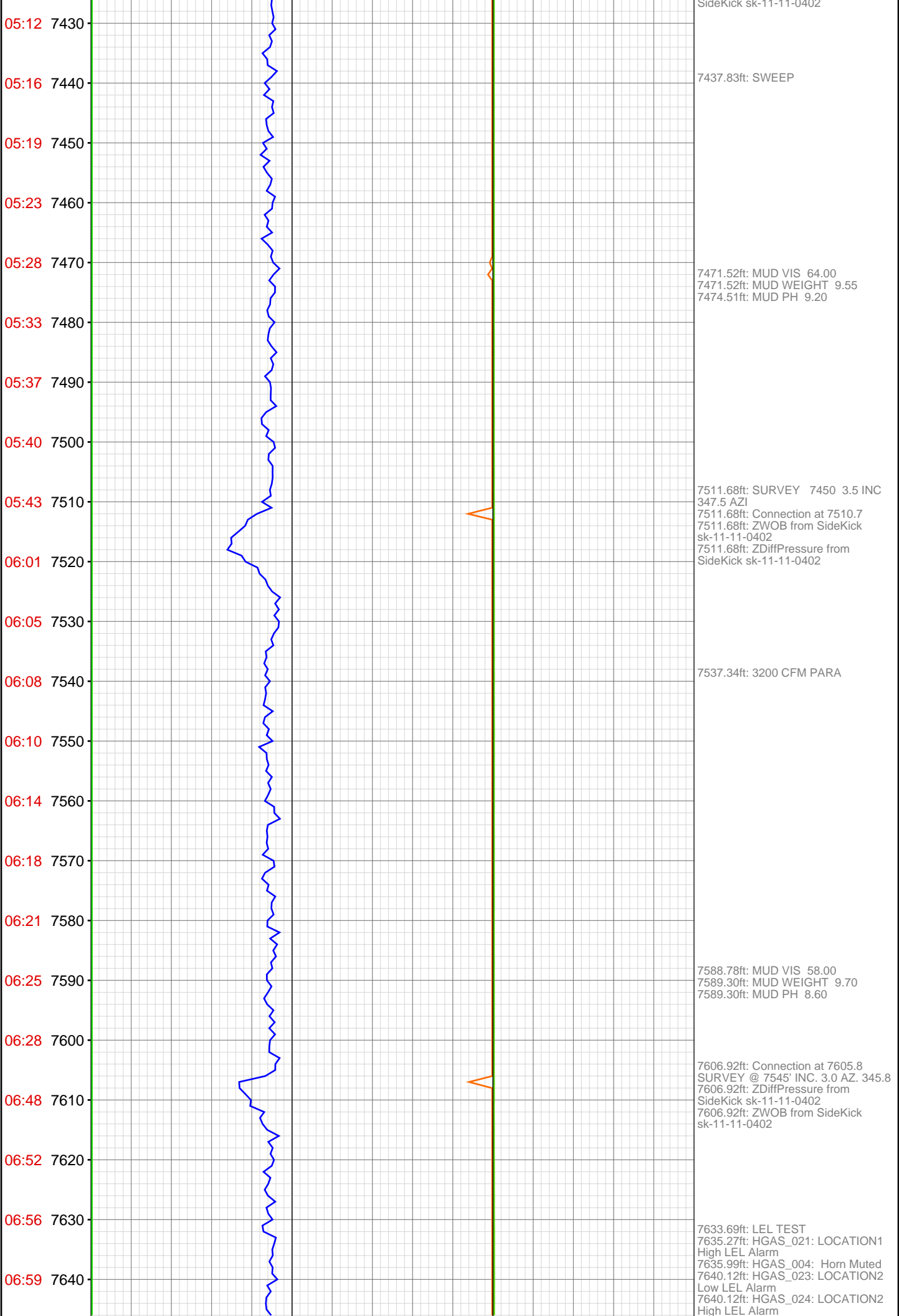


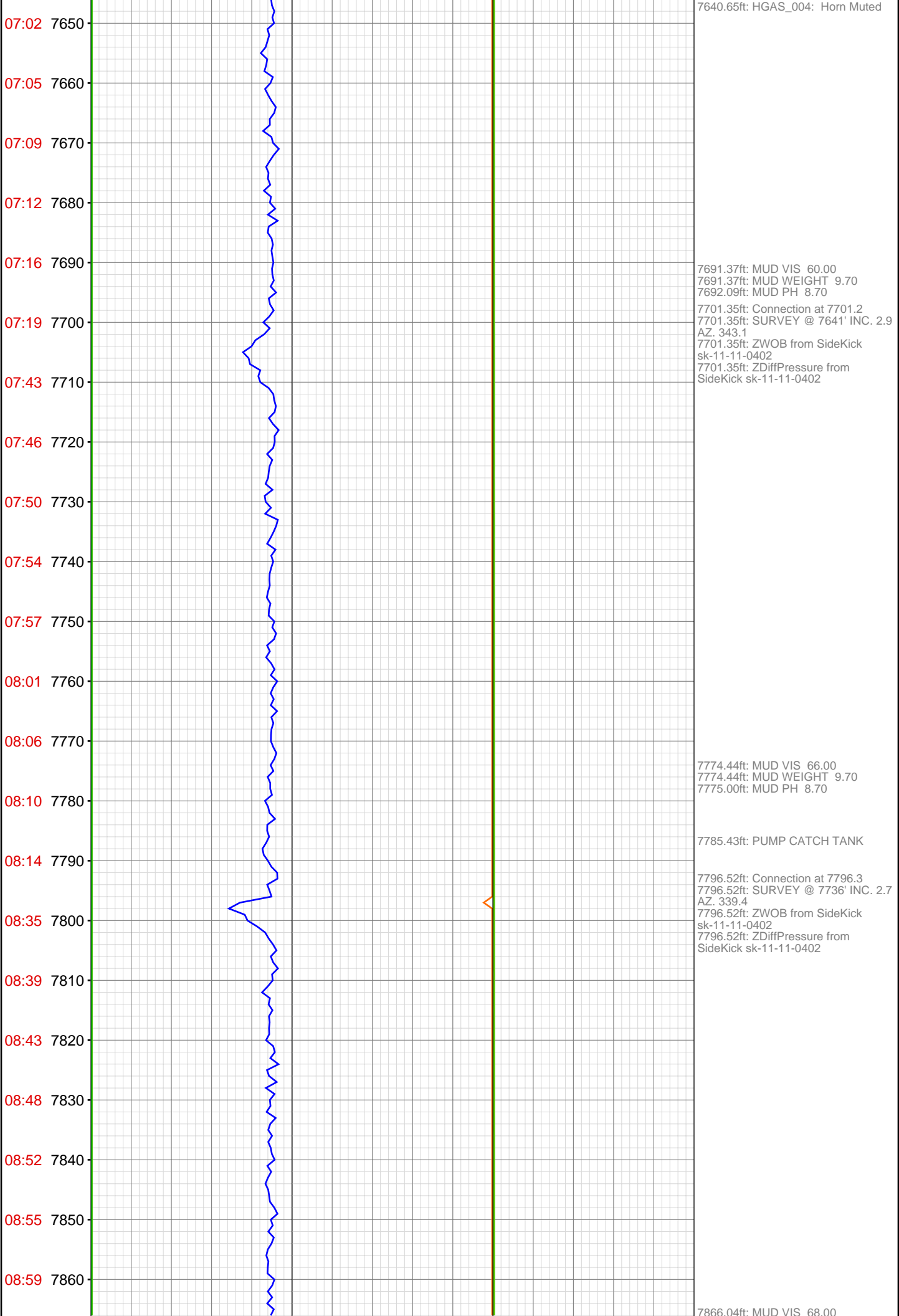
7023.62ft: MUD WEIGHT 58.00
7024.02ft: MUD WEIGHT 9.30
7035.53ft: SURVEY 6880 4.2 INC
347.5 AZI
7035.53ft: Connection at 7035.5
7035.53ft: 3200 CFM PARA
7035.53ft: ZWOB from SideKick
sk-11-11-0402
7035.53ft: ZDiffPressure from
SideKick sk-11-11-0402
7035.53ft: SWEEP

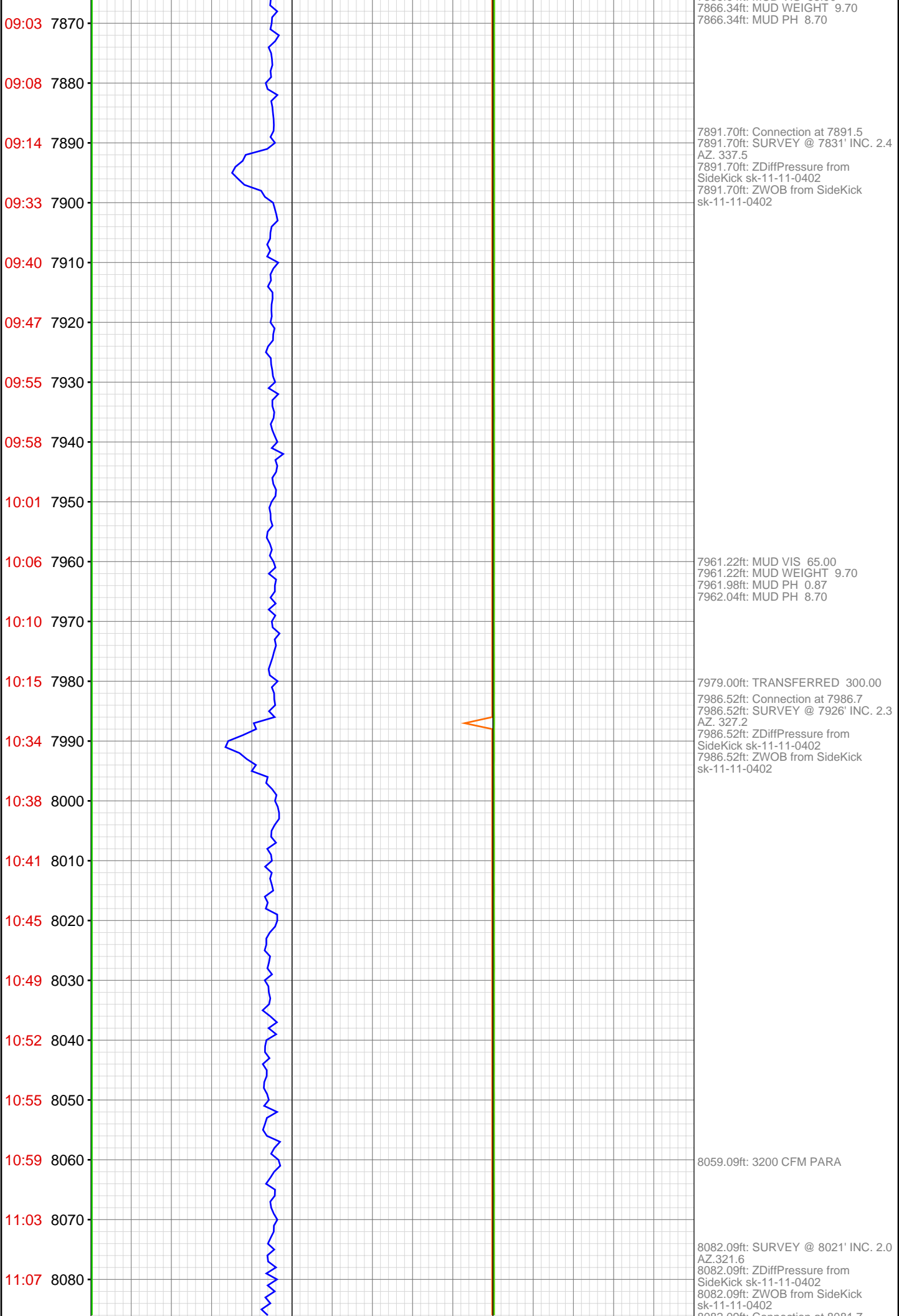
7130.71ft: SURVEY 7070 3.9 INC
347.1 AZI
7130.71ft: Connection at 7130.6
7130.71ft: ZWOB from SideKick
sk-11-11-0402
7130.71ft: ZDiffPressure from
SideKick sk-11-11-0402
7133.01ft: MUD VIS 61.00
7133.27ft: MUD WEIGHT 8.35
7143.11ft: SWEEP

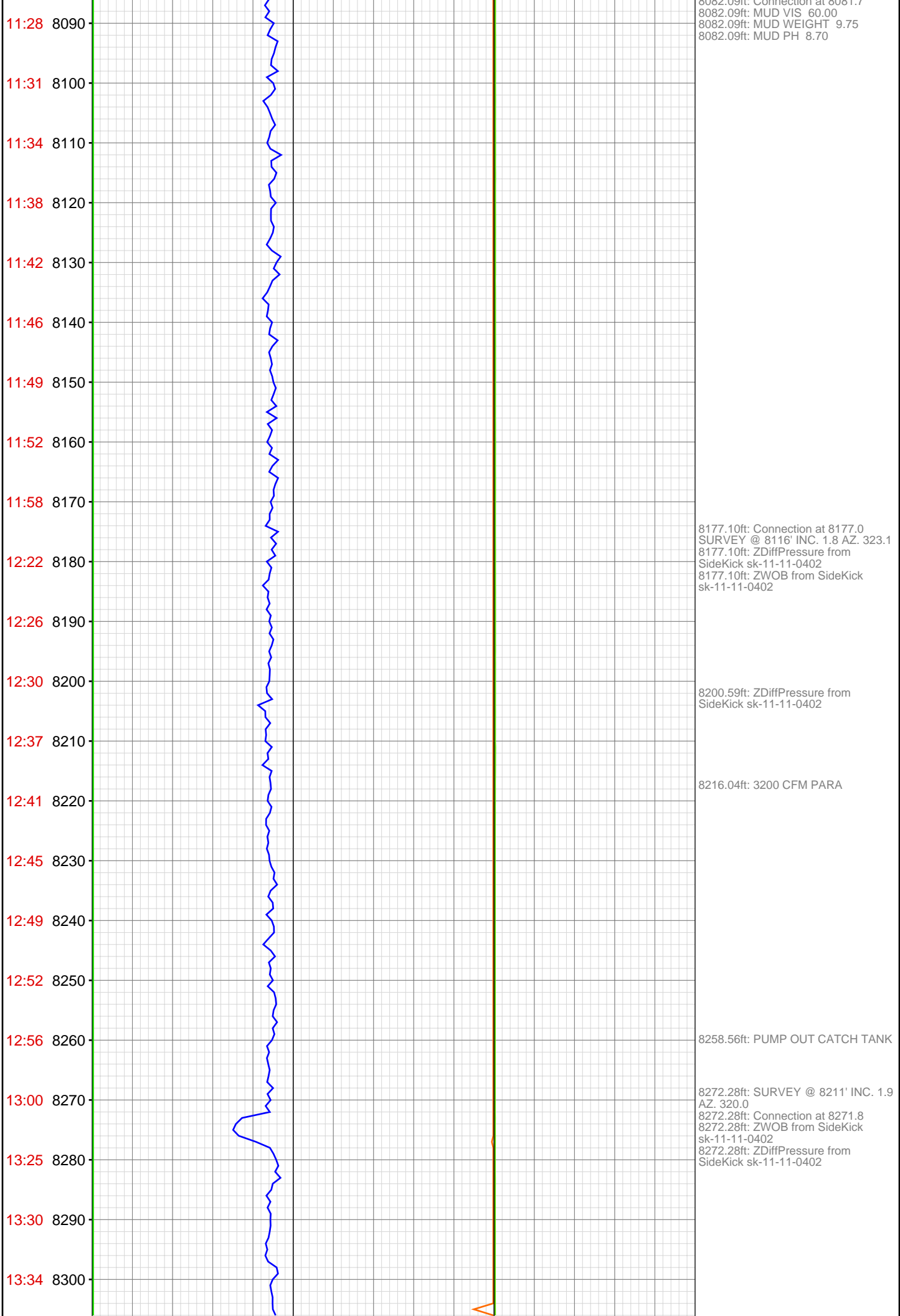
7189.73ft: CORRECTION MW 9.35



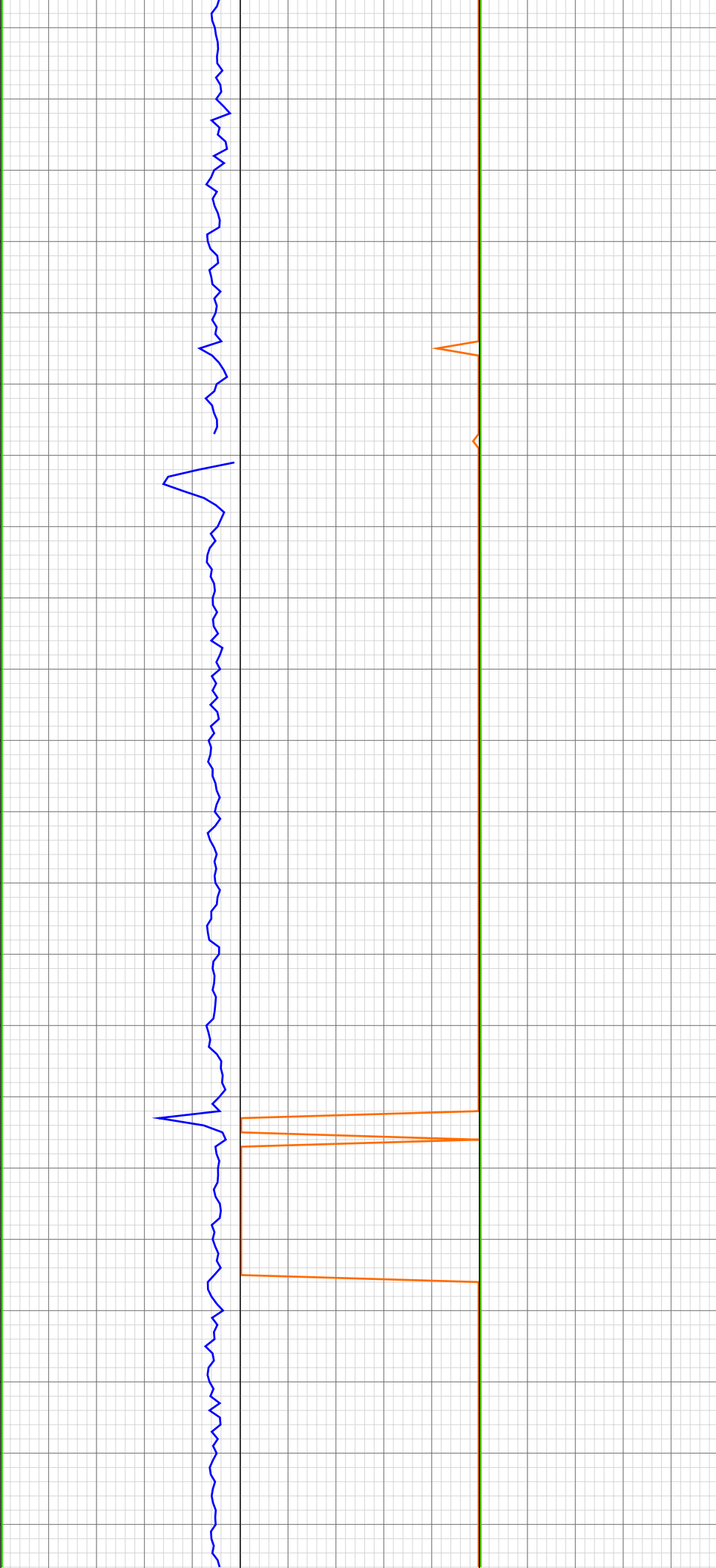








13:46 8310
13:55 8320
14:06 8330
14:11 8340
14:15 8350
14:24 8360
14:53 8370
15:02 8380
15:10 8390
15:16 8400
15:20 8410
15:26 8420
15:30 8430
15:35 8440
15:40 8450
15:45 8460
16:53 8470
17:07 8480
17:18 8490
17:21 8500
17:25 8510
17:30 8520



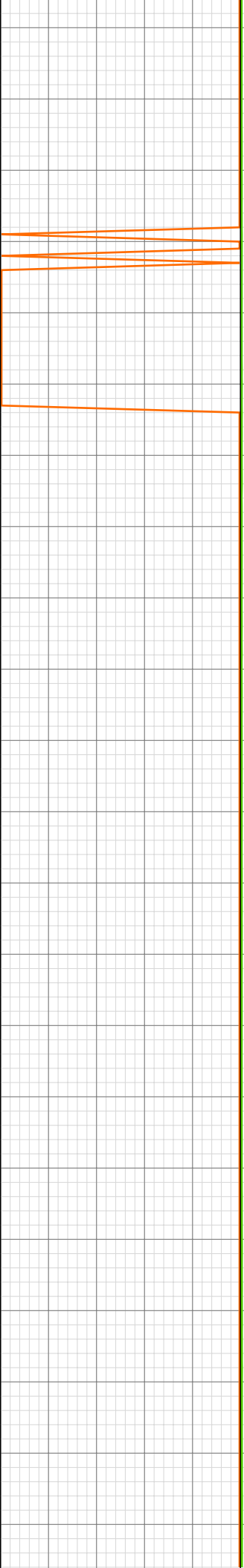
8354.92ft: ZDiffPressure from
SideKick sk-11-11-0402
8367.68ft: Connection at 8366.9
8367.68ft: SURVEY @ 8306' INC. 1.5
AZ. 326.0
8367.68ft: MUD VIS 62.00
8367.68ft: MUD WEIGHT 9.75
8367.68ft: MUD PH 8.70
8367.68ft: ZDiffPressure from
SideKick sk-11-11-0402
8367.68ft: ZWOB from SideKick
sk-11-11-0402

8393.04ft: 3200 CFM PARA

8462.93ft: RIG SERVICE
8462.93ft: MUD VIS 61.00
8462.93ft: MUD WEIGHT 9.80
8462.93ft: MUD PH 8.60
8462.93ft: TRANSFERRED 250.00
8462.93ft: Connection at 8366.9
8462.93ft: SURVEY @ 8401' INC. 2.0
AZ. 297.3
8468.54ft: MUD VIS 66.00
8468.67ft: MUD WEIGHT 9.80
8468.67ft: MUD PH 8.60

8480.48ft: 3200 CFM PARA
8485.99ft: ZWOB from SideKick
sk-11-11-0402
8485.99ft: ZDiffPressure from
SideKick sk-11-11-0402

17:35 8530
17:40 8540
17:44 8550
18:07 8560
18:20 8570
18:31 8580
18:38 8590
18:41 8600
18:45 8610
18:48 8620
18:54 8630
18:59 8640
19:04 8650
19:28 8660
19:33 8670
19:40 8680
19:47 8690
19:54 8700
20:00 8710
20:05 8720
20:11 8730
20:17 8740



8554.33ft: MUD VIS 63.00
8554.69ft: MUD WEIGHT 9.85
8554.99ft: MUD PH 8.50
8558.20ft: SURVEY 8496 1.7 INC
321.8 AZI
8558.20ft: Connection at 8556.9
8558.20ft: ZDiffPressure from
SideKick sk-11-11-0402

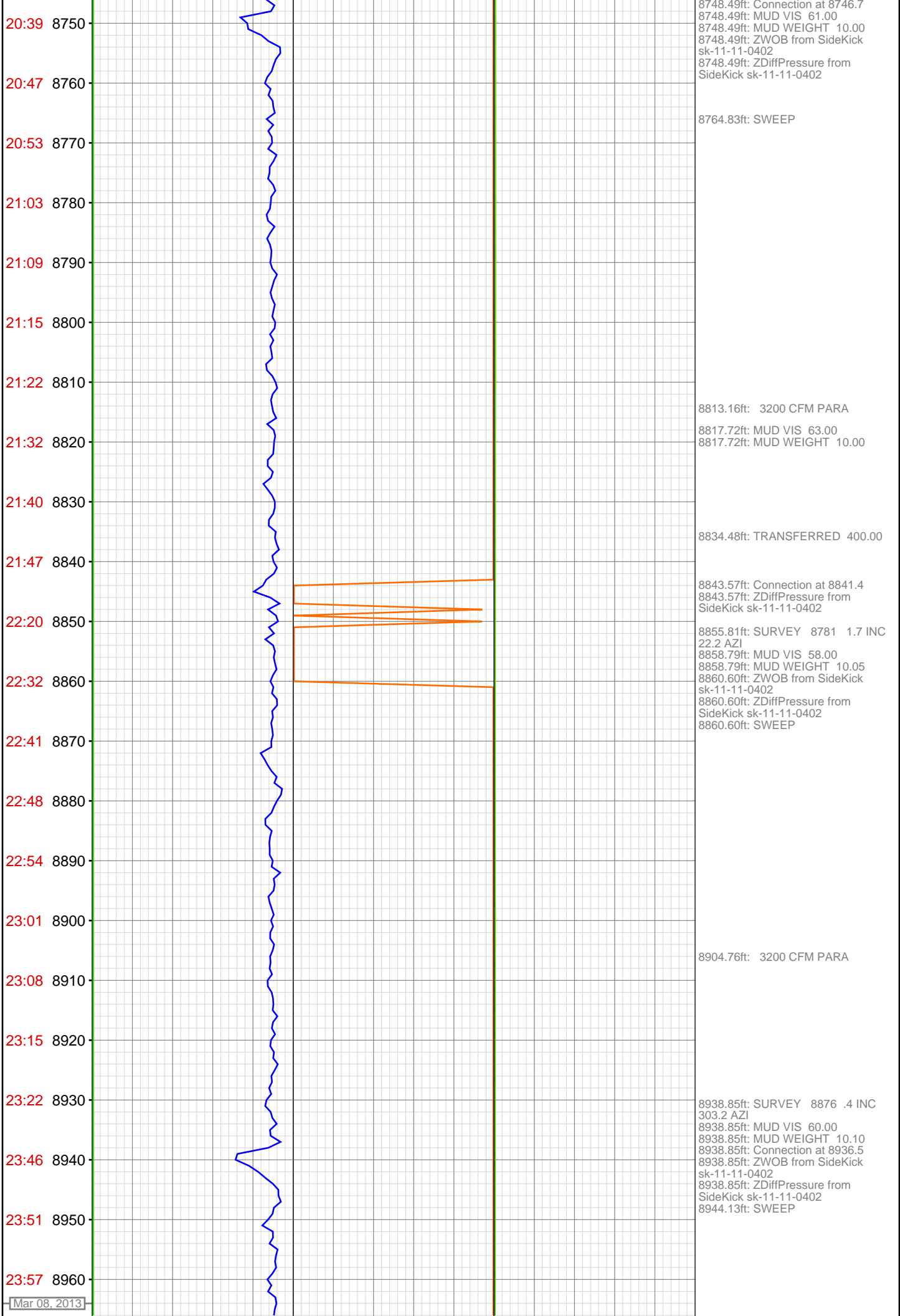
8583.50ft: MUD VIS 60.00
8583.50ft: ZWOB from SideKick
sk-11-11-0402
8583.50ft: MUD WEIGHT 9.95
8584.15ft: SWEEP

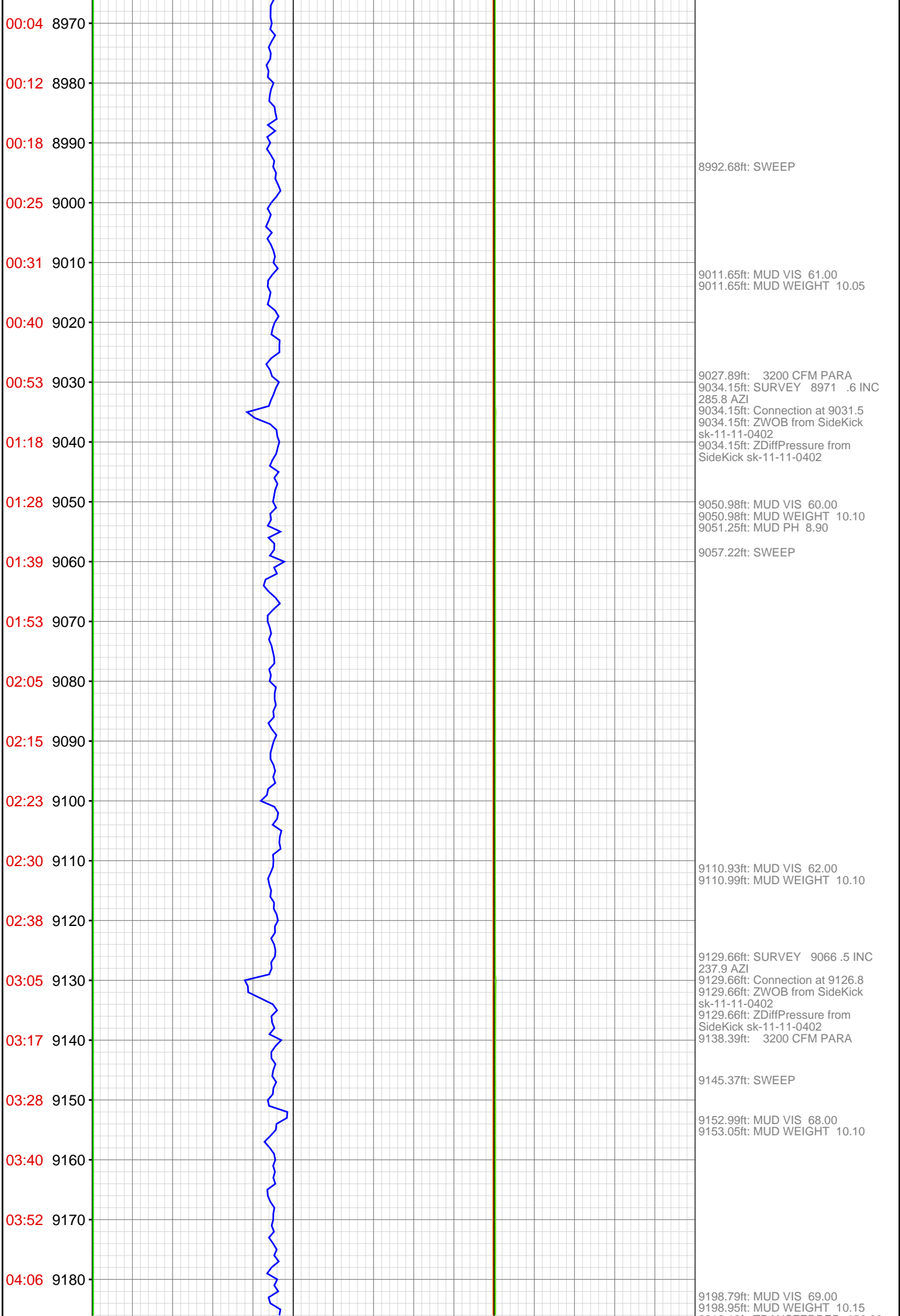
8591.90ft: 3200 CFM PARA

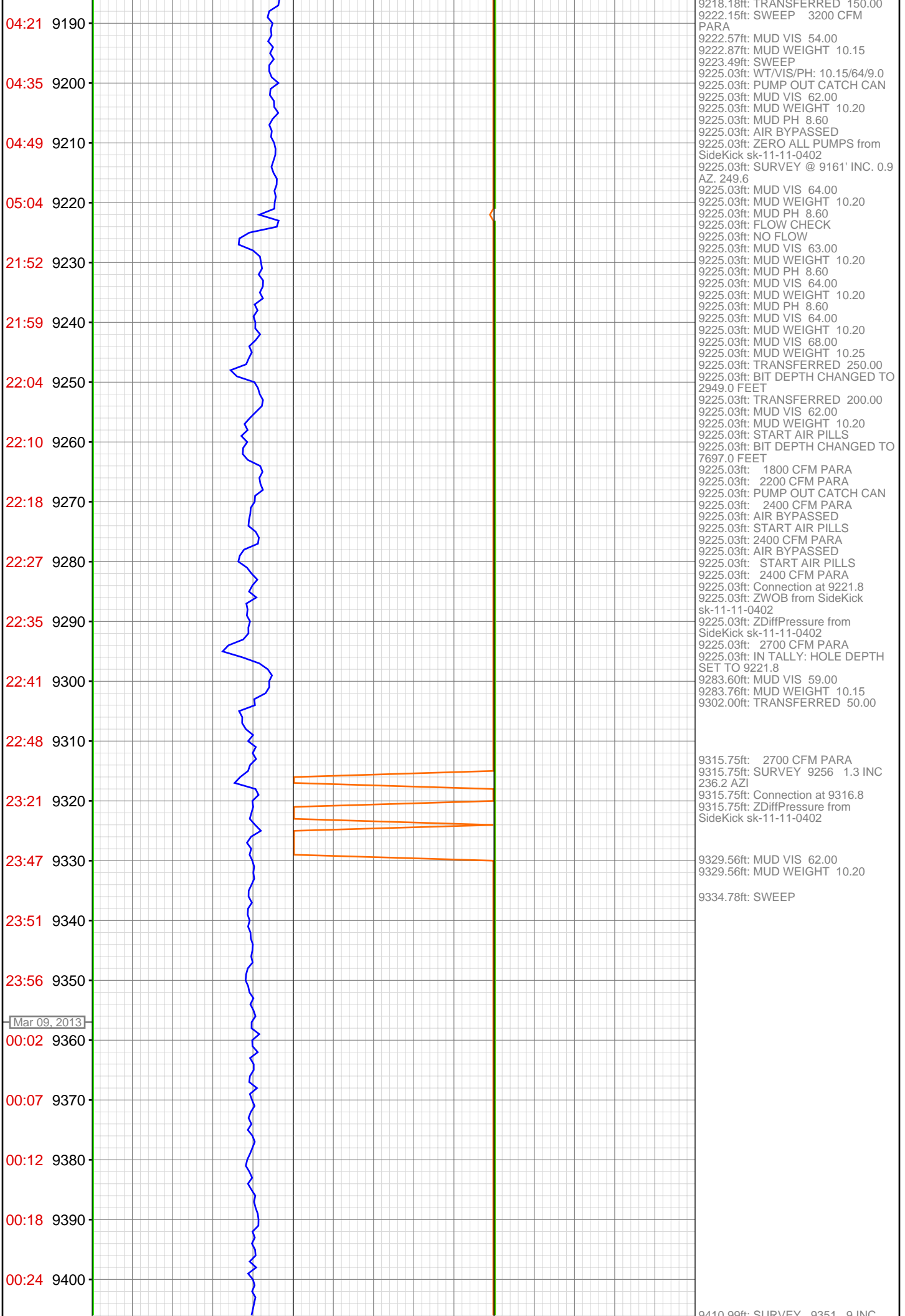
8614.90ft: TEST LELS
8615.49ft: HGAS_020: LOCATION1
Low LEL Alarm
8615.49ft: HGAS_021: LOCATION1
High LEL Alarm
8616.01ft: HGAS_004: Horn Muted
8622.34ft: HGAS_023: LOCATION2
Low LEL Alarm
8622.34ft: HGAS_024: LOCATION2
High LEL Alarm
8622.64ft: HGAS_004: Horn Muted

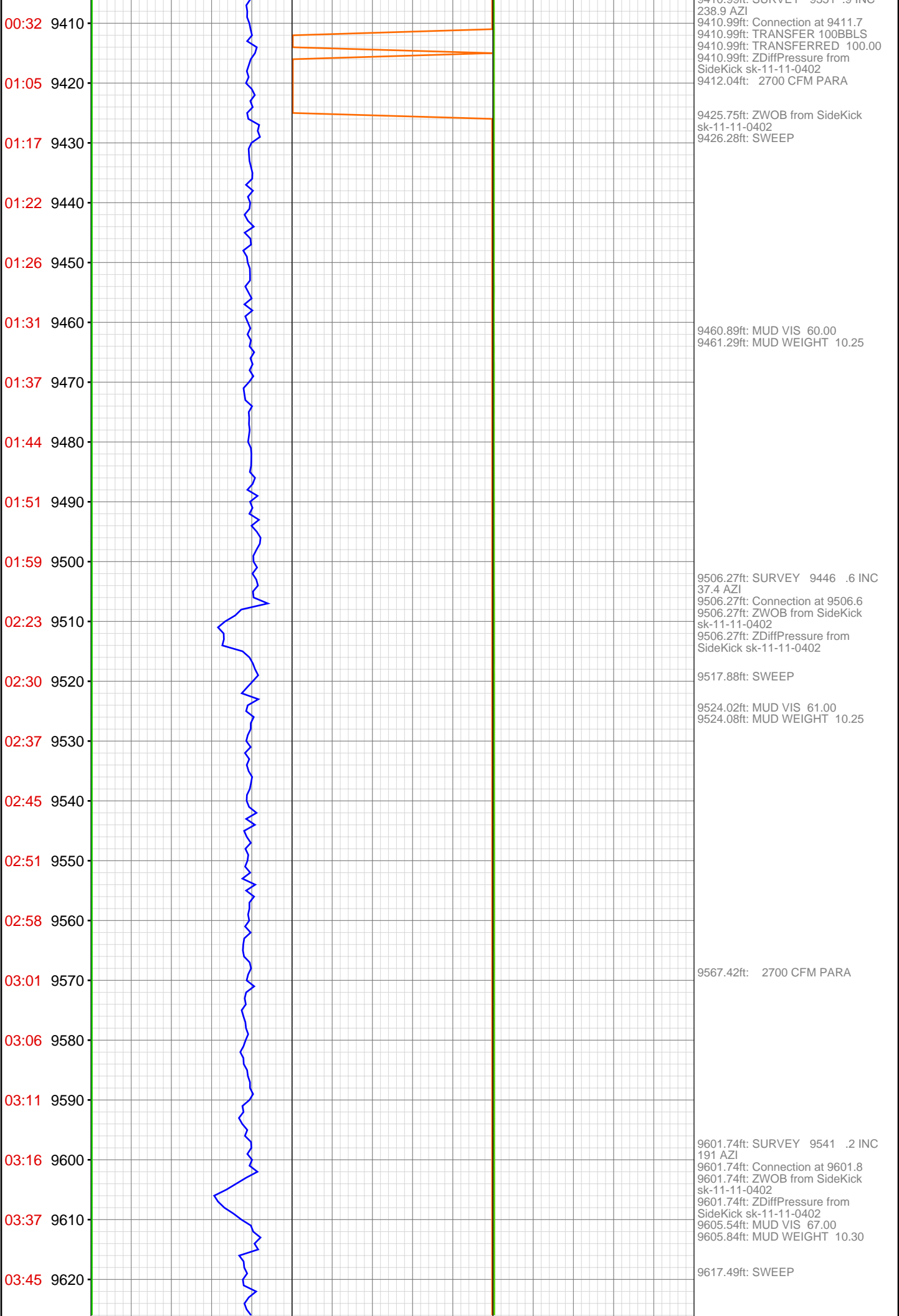
8653.38ft: SURVEY 8591 2.3 INC
23.7 AZI
8653.38ft: Connection at 8651.8
8653.38ft: ZWOB from SideKick
sk-11-11-0402
8653.38ft: ZDiffPressure from
SideKick sk-11-11-0402
8657.19ft: SWEEP
8662.53ft: WT/VIS: 10.0/58

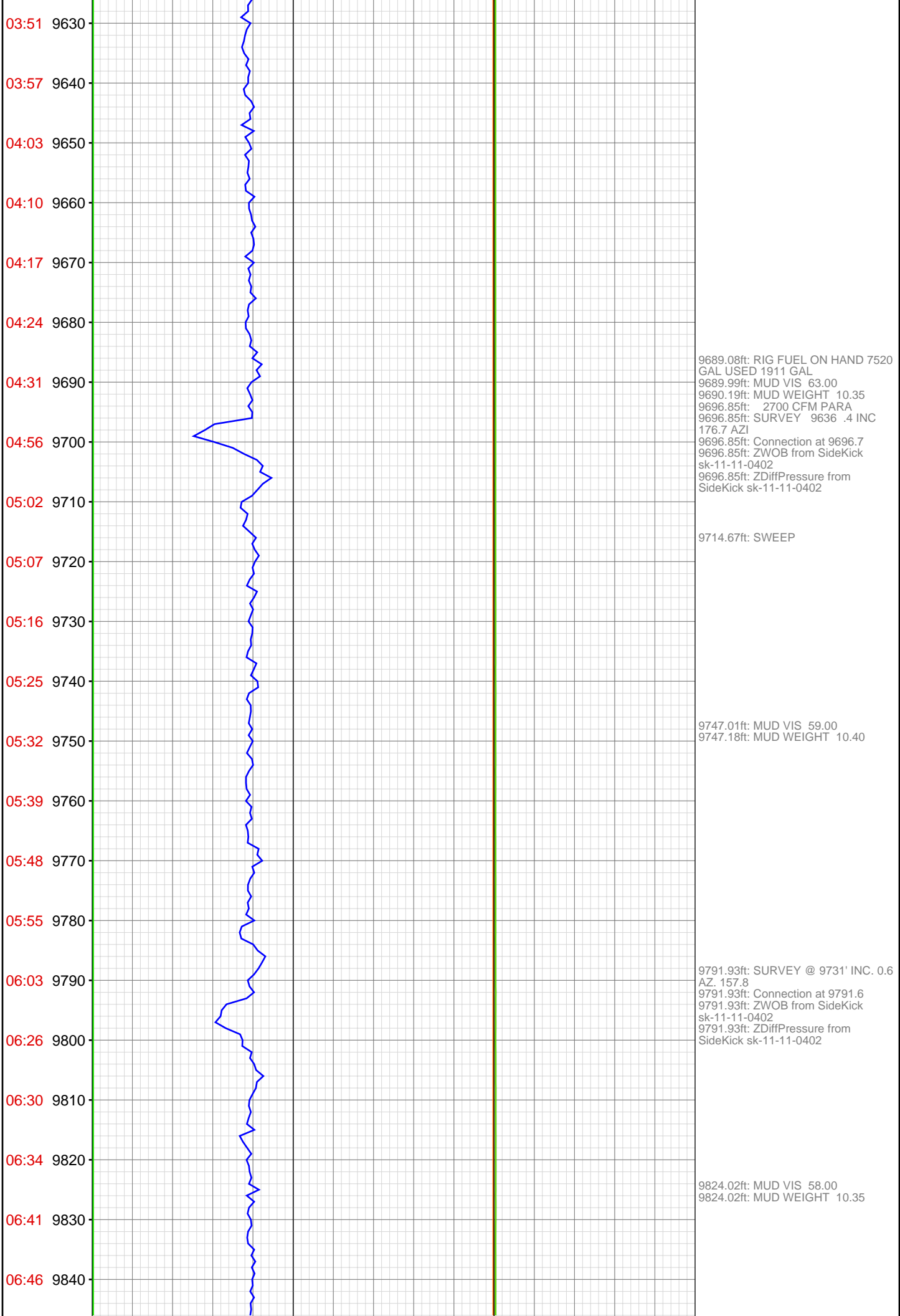
8748.49ft: SURVEY 8686 1.8 INC
24.9 AZI

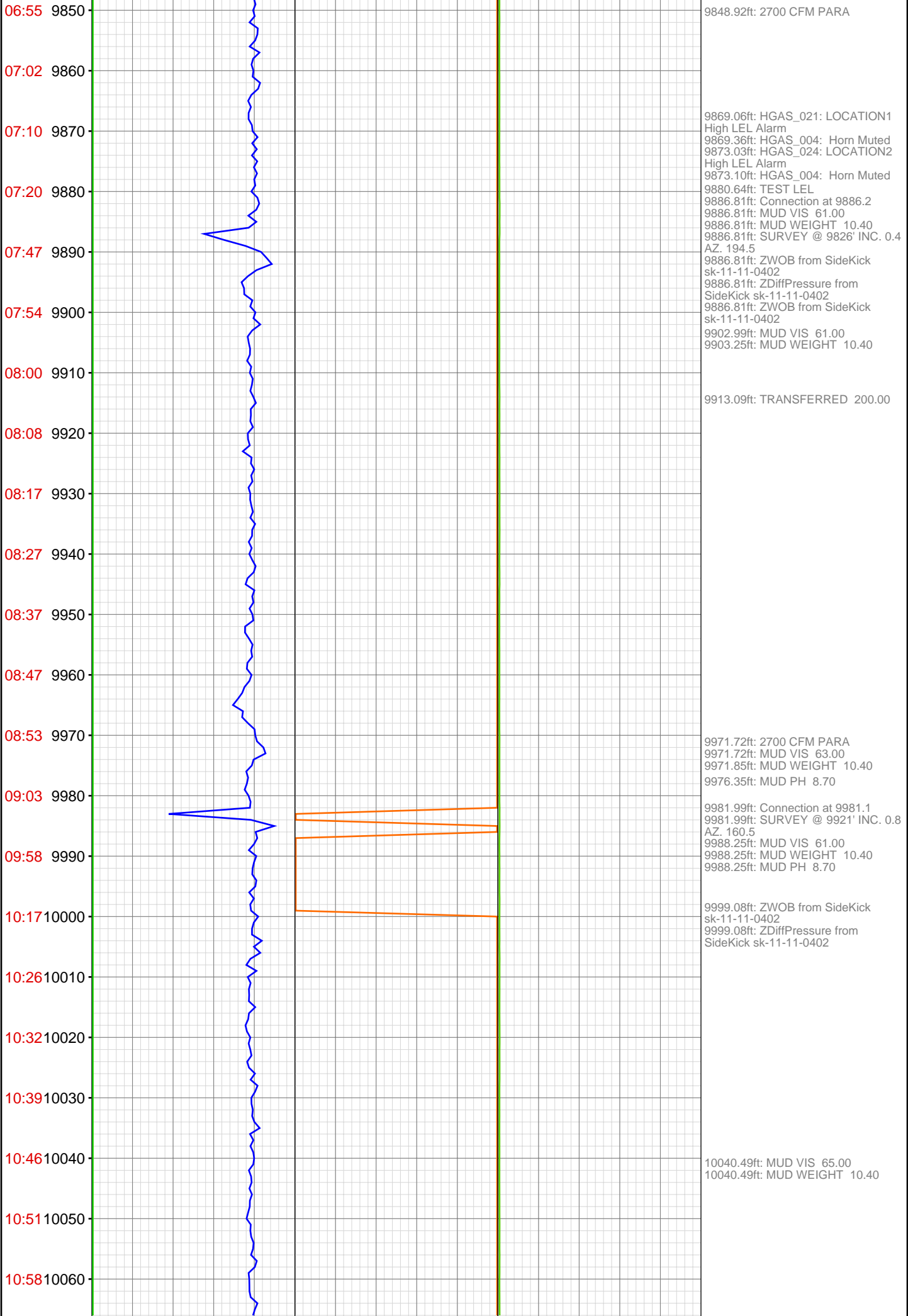


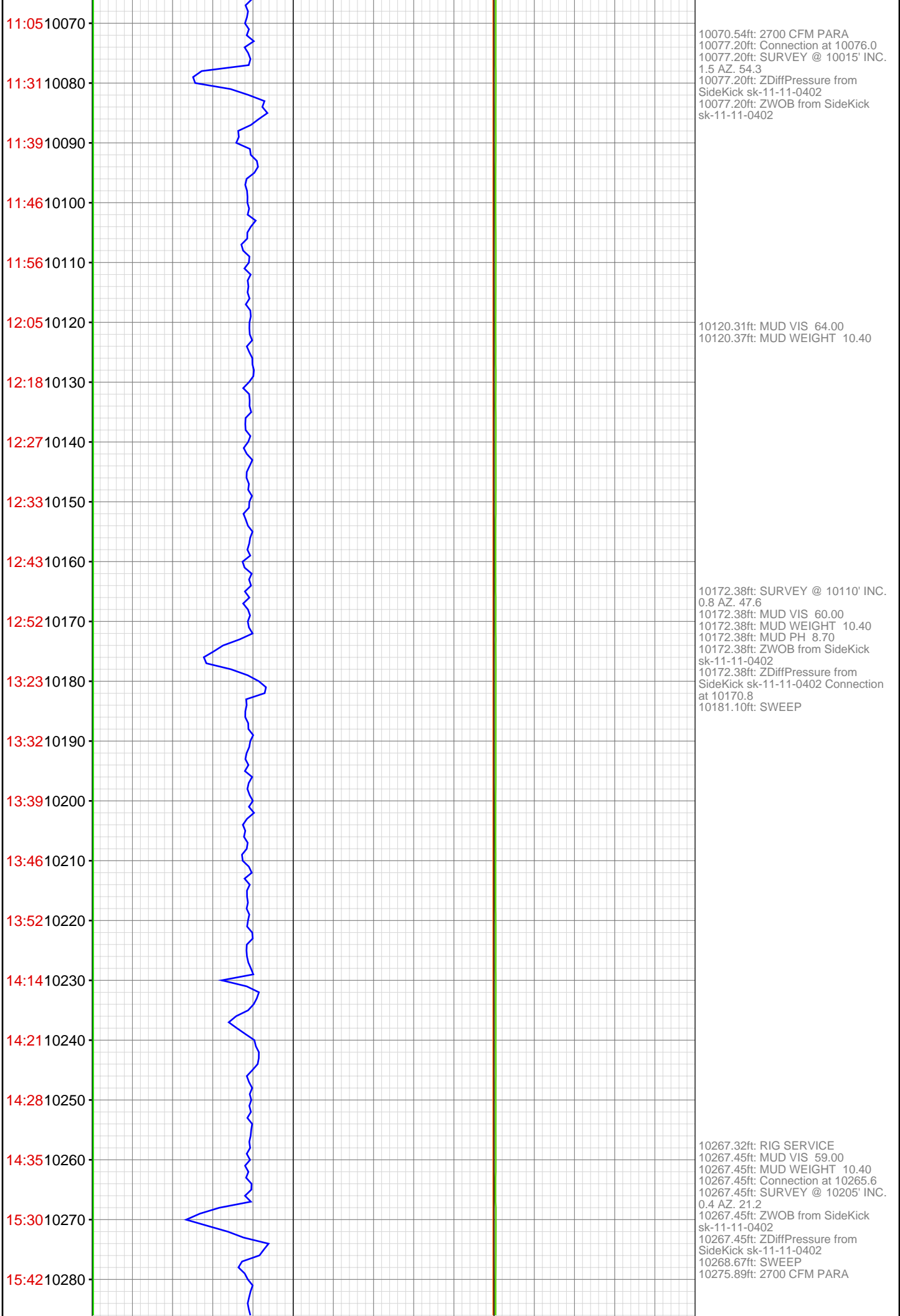


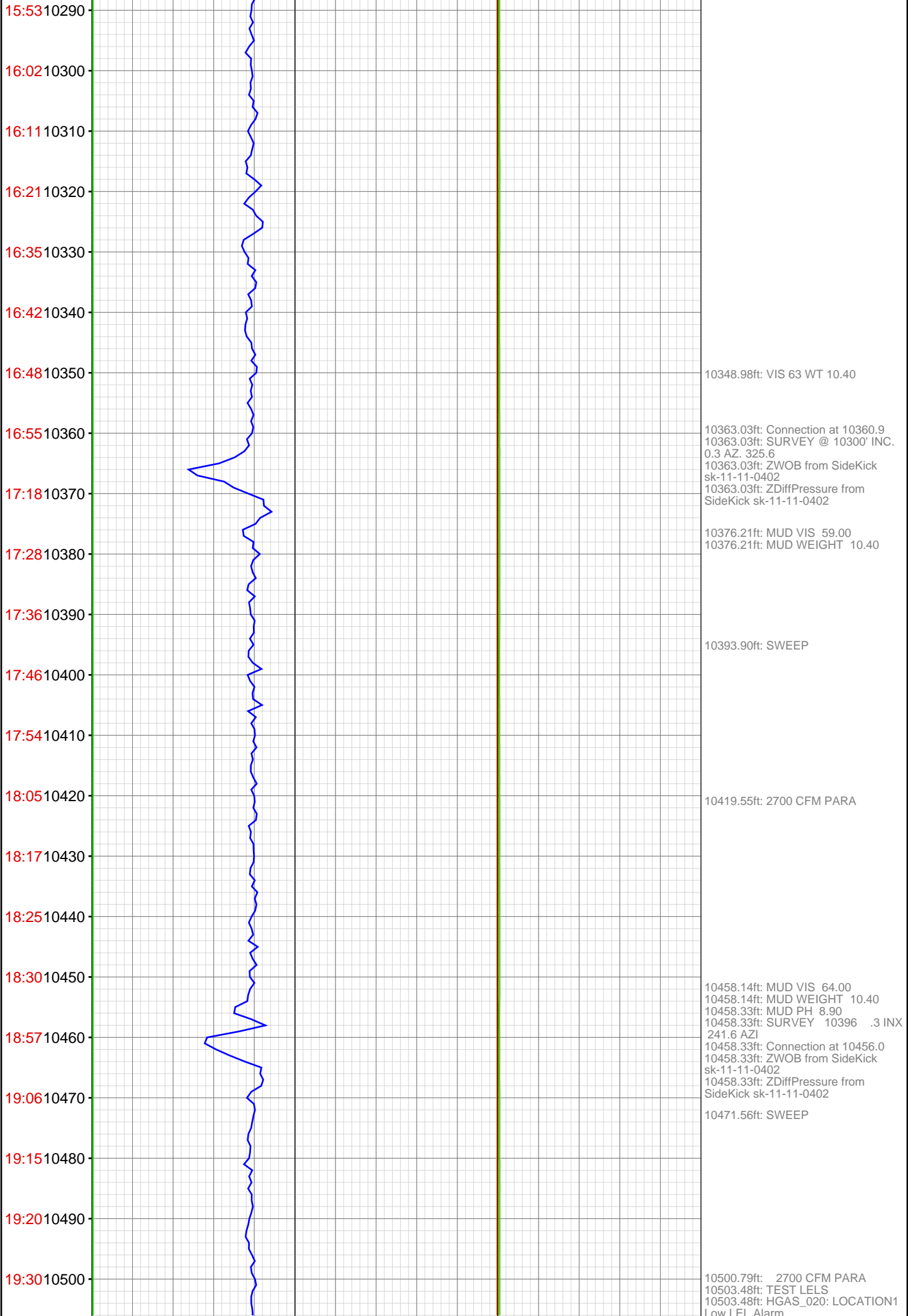


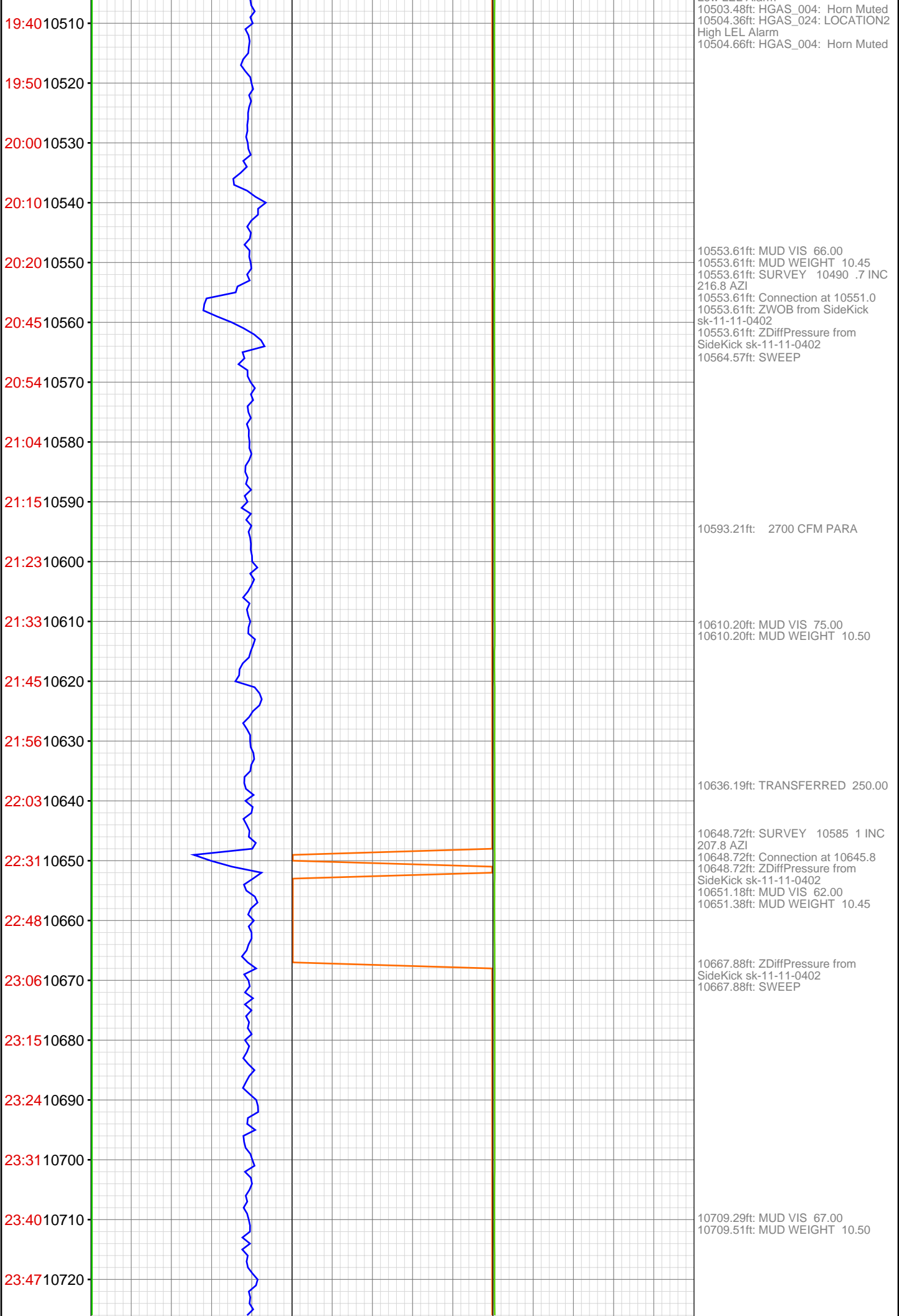


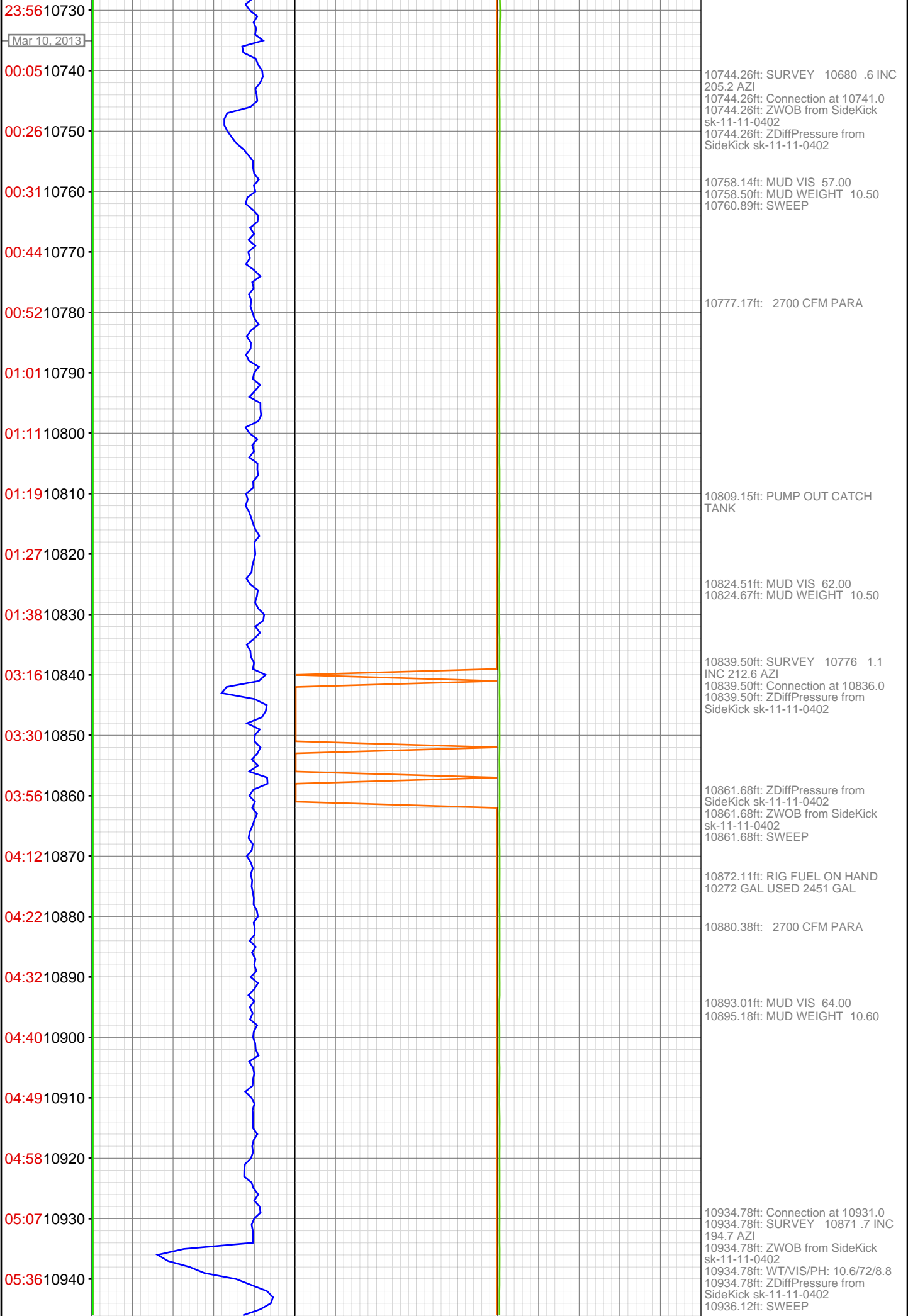


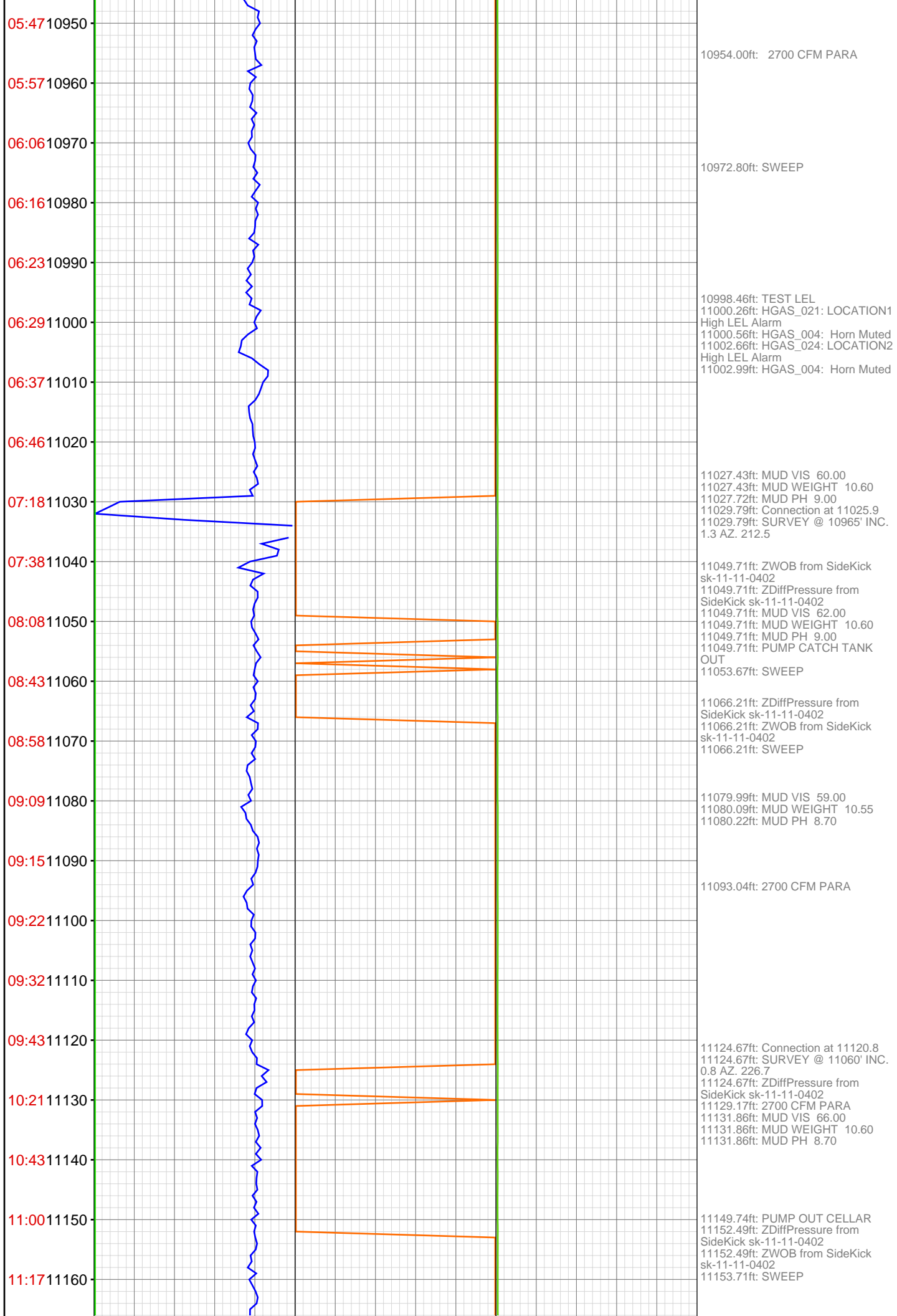




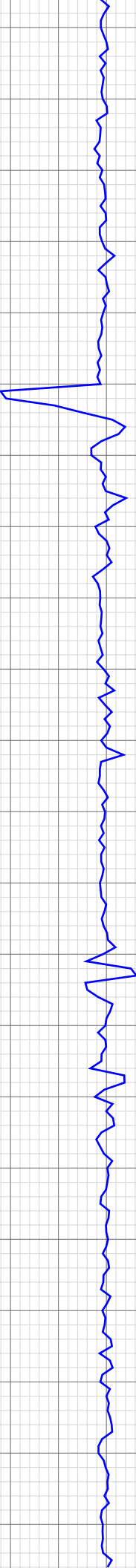








11:29 11170
11:43 11180
11:54 11190
12:06 11200
12:23 11210
12:33 11220
13:01 11230
13:18 11240
13:27 11250
13:38 11260
13:56 11270
14:12 11280
14:27 11290
14:39 11300
14:54 11310
16:21 11320
16:39 11330
16:55 11340
17:08 11350
17:29 11360
17:42 11370
17:55 11380



11182.58ft: 2700 CFM PARA
11183.17ft: MUD VIS 62.00
11183.24ft: MUD WEIGHT 10.60

11199.87ft: SWEEP

11220.24ft: Connection at 11215.9
11220.24ft: SURVEY @ 11155' INC.
1.8 AZ. 51.6
11220.24ft: ZWOB from SideKick
sk-11-11-0402
11220.24ft: ZDiffPressure from
SideKick sk-11-11-0402
11222.31ft: MUD VIS 61.00
11222.41ft: MUD WEIGHT 10.60
11227.99ft: SWEEP

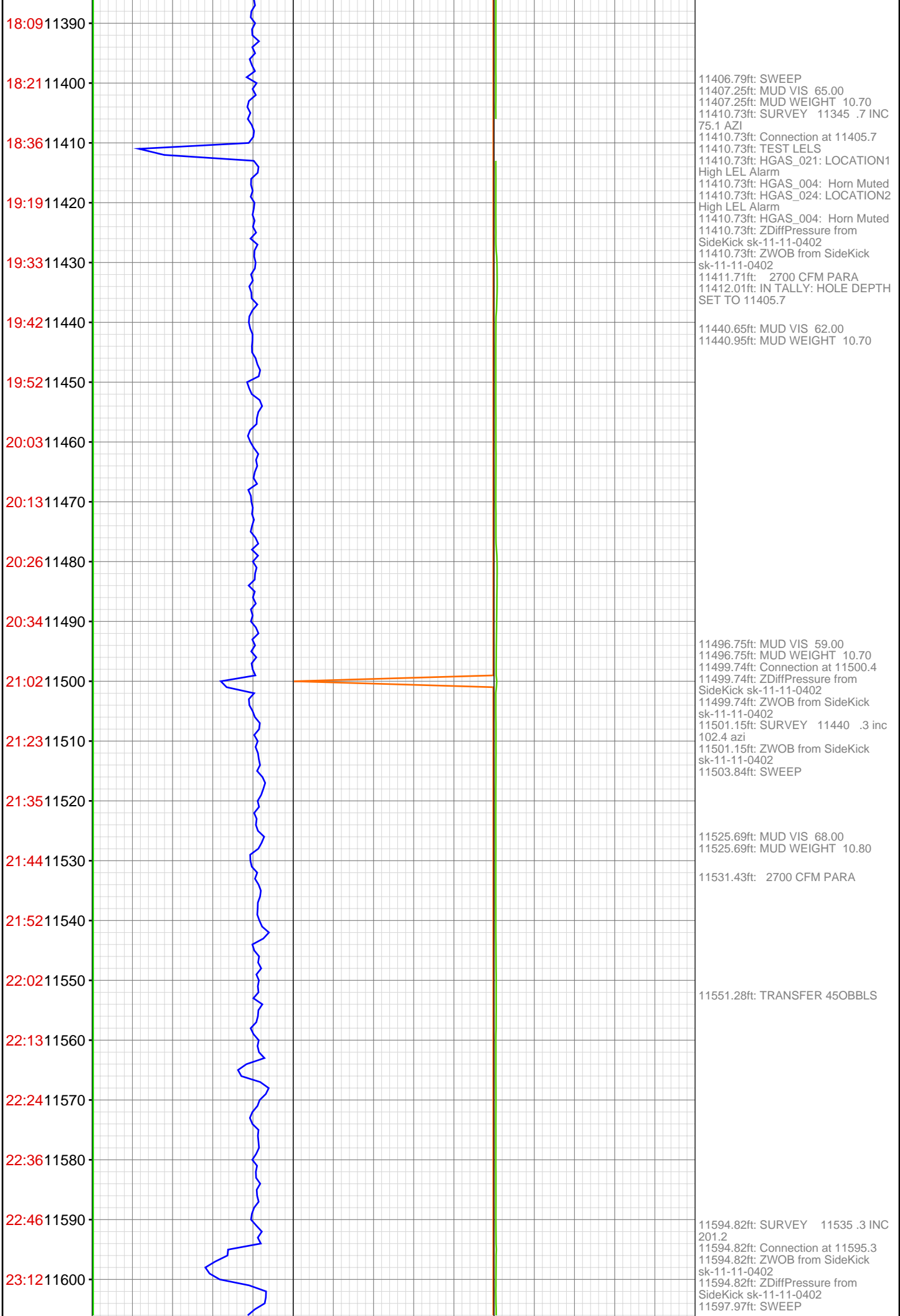
11296.23ft: MUD VIS 67.00
11296.23ft: MUD WEIGHT 10.70

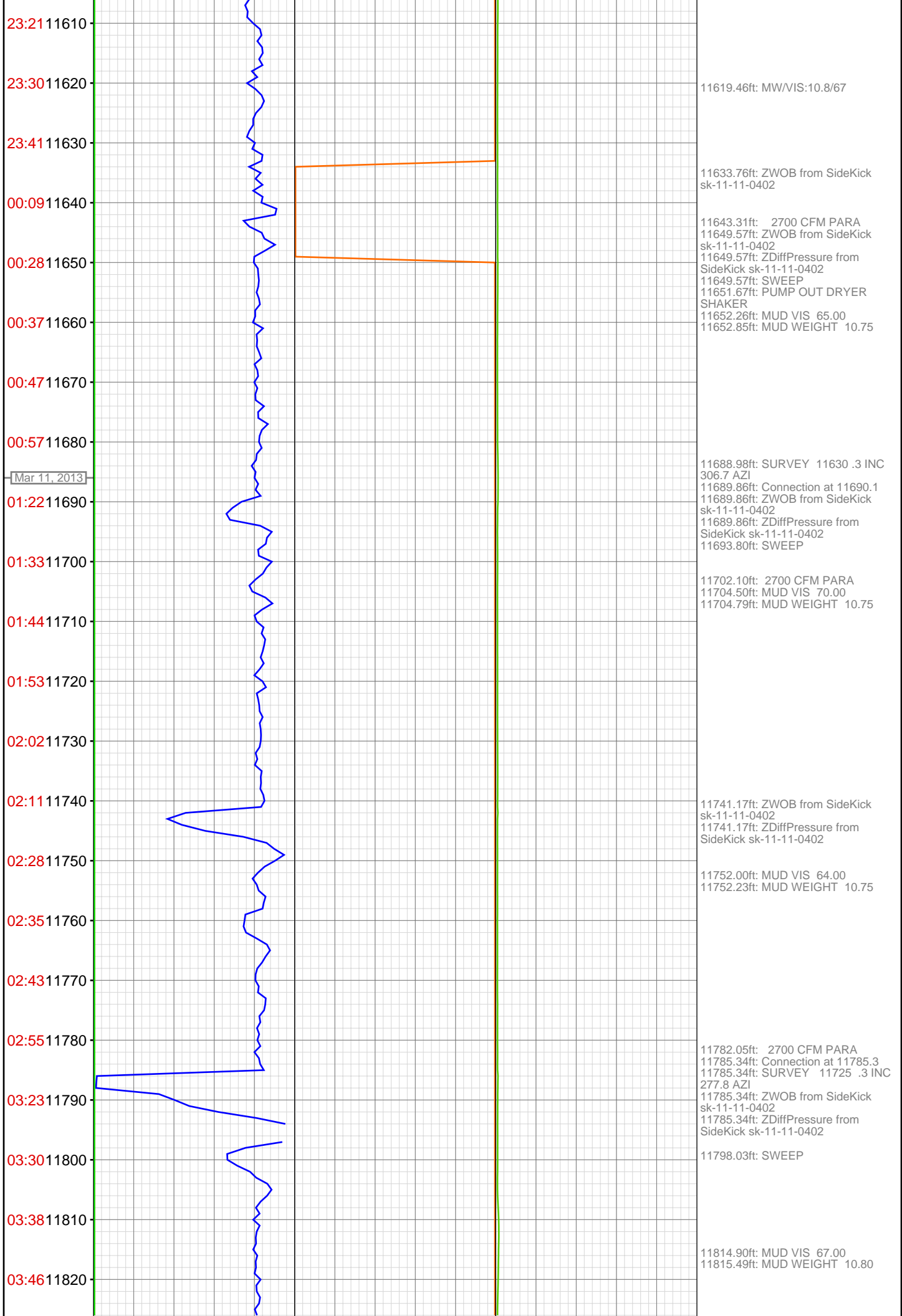
11313.39ft: SWEEP
11315.35ft: RIG SERVICE
11315.35ft: MUD VIS 60.00
11315.35ft: MUD WEIGHT 10.65
11315.35ft: 2700 CFM PARA
11315.35ft: Connection at 11310.7
11315.35ft: ZDiffPressure from
SideKick sk-11-11-0402
11315.35ft: ZWOB from SideKick
sk-11-11-0402
11318.64ft: SWEEP
11320.05ft: MUD VIS 62.00
11320.11ft: MUD WEIGHT 10.65

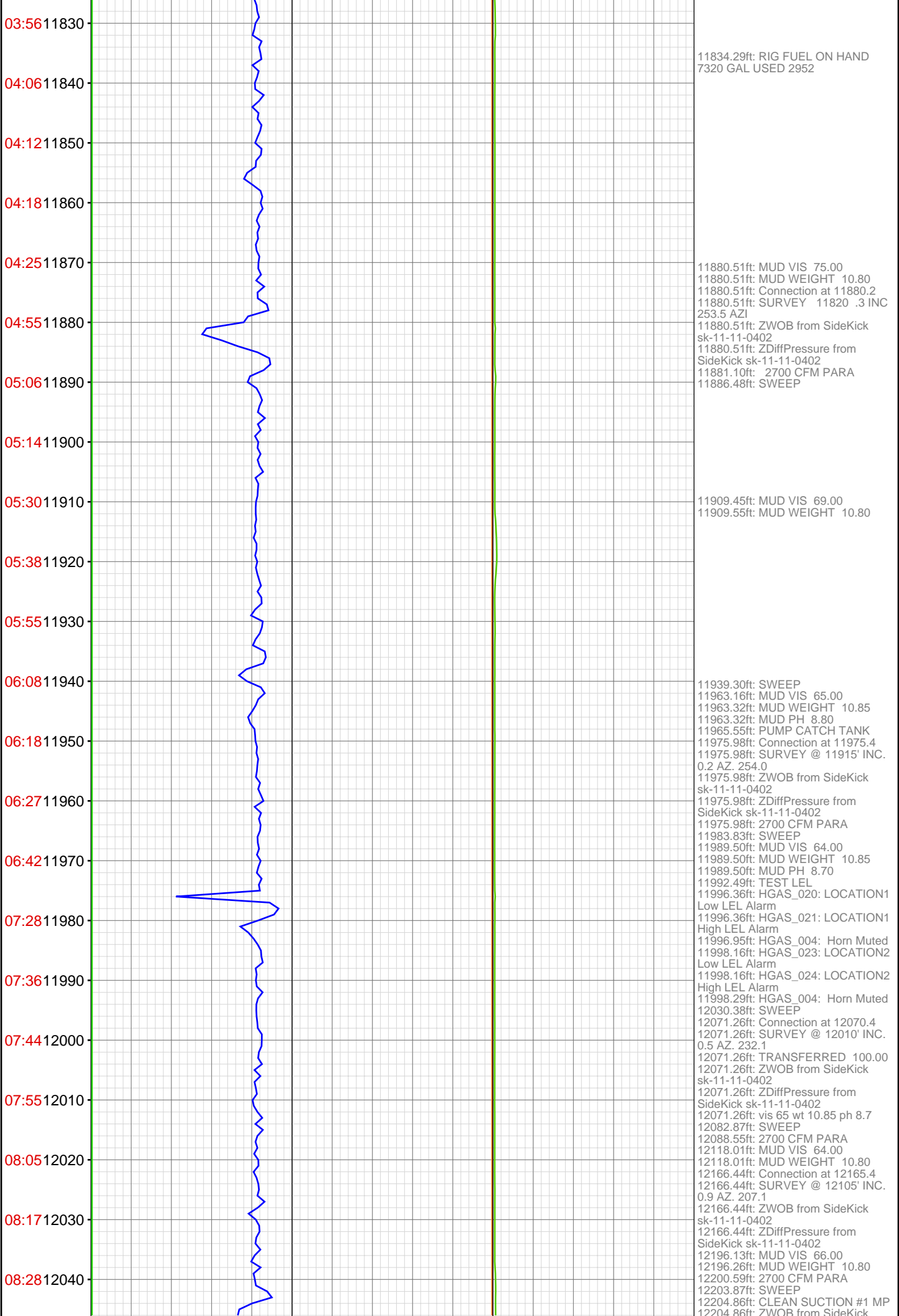
11356.37ft: VIS 62 WT 10.7 PH 8.7

11370.83ft: SWEEP

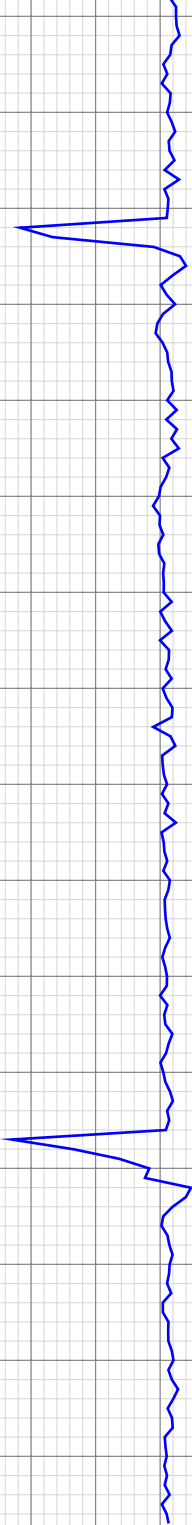
11380.09ft: 2700 CFM PARA







08:36 12050
08:43 12060
08:51 12070
09:24 12080
09:44 12090
09:53 12100
10:06 12110
10:20 12120
10:40 12130
11:02 12140
11:15 12150
11:26 12160
12:02 12170
12:15 12180
12:27 12190
12:45 12200
12210



sk-11-11-0402
12204.86ft: ZDiffPressure from
SideKick sk-11-11-0402
12207.09ft: START AIR PILLS
12207.09ft: SURVEY AT TD 12147
1.0 INC 208.5 AZI
12207.09ft: 2700 CFM PARA
12207.09ft: SWEEP
12207.09ft: 2700 CFM PARA
12207.09ft: AIR BYPASSED
12207.09ft: FLOW CHECK
12207.09ft: BLOW DOWN
TOPDRIVE
12207.09ft: TRANSFERRED 250.00
12207.09ft: PULL ROTATING HEAD
12207.09ft: TURN MWD OFF
12207.09ft: FLOW F/PIPE RAMS
CLOSED
12207.09ft: RIG FUEL ON HAND
9304 GAL USED 1970 GAL
12207.09ft: MUD VIS 50.00
12207.09ft: MUD WEIGHT 10.70
12207.09ft: BIT DEPTH CHANGED
TO 2932.0 FEET
12207.09ft: TEST LEL
12207.09ft: HGAS_020: LOCATION1
Low LEL Alarm
12207.09ft: HGAS_021: LOCATION1
High LEL Alarm
12207.09ft: HGAS_004: Horn Muted
12207.09ft: HGAS_023: LOCATION2
Low LEL Alarm
12207.09ft: HGAS_024: LOCATION2
High LEL Alarm
12207.09ft: HGAS_004: Horn Muted
12207.09ft: FILL PIPE
12207.09ft: TRANSFERRED 300.00
12207.09ft: PVT:Flow alarm
reactivated: un-muted
12207.09ft: PVT:Flow alarm muted
12207.09ft: AIR PARA 1800
12207.09ft: AIR BYPASSED
12207.09ft: AIR PARA 1800
12207.09ft: GA - Manual purge
12207.09ft: AIR BYPASSED
12207.09ft: GA - Zeroed
12207.09ft: START AIR PILLS
12207.09ft: TRANSFERRED 400.00
12207.09ft: 1800 CFM PARA
12207.09ft: AIR BYPASSED
12207.09ft: MUD VIS 50.00
12207.09ft: MUD WEIGHT 10.70
12207.09ft: PUMP OUT CATCH
TANK
12207.09ft: START AIR PILLS
12207.09ft: PVT:Flow alarm
reactivated: un-muted
12207.09ft: PVT:Flow alarm muted
12207.09ft: ADS TEST FLOW LINE
POP OFFS
12207.09ft: 1800 CFM PARA
12207.09ft: PUMP OUT CATCH CAN
12207.09ft: 1800 CFM PARA
12207.09ft: MUD VIS 47.00
12207.09ft: MUD WEIGHT 10.70
12207.09ft: PVT:Flow alarm
reactivated: un-muted
12207.09ft: PVT:Flow alarm muted
12207.09ft: 1800 CFM PARA
12207.09ft: AIR BYPASSED
12207.09ft: START AIR PILLS
12207.09ft: 1800 CFM PARA
12207.09ft: 2000 CFM PARA
12207.09ft: RIG FUEL ON HAND 7,
320 USED 1984 GAL
12207.09ft: PUMP OUT CATCH CAN
12207.09ft: 1900 CFM PARA
12207.09ft: AIR BYPASSED
12207.09ft: START AIR PILLS
12207.09ft: PVT:Flow alarm
reactivated: un-muted
12207.09ft: PVT:Flow alarm muted
12207.09ft: 1800 CFM PARA
12207.09ft: AIR PARA 1700
12207.09ft: CEMENT CASING
12207.09ft: AIR PARA 1800
12207.09ft: PUMP CELLAR
12207.09ft: DROP PLUG
12207.09ft: AIR BYPASSED