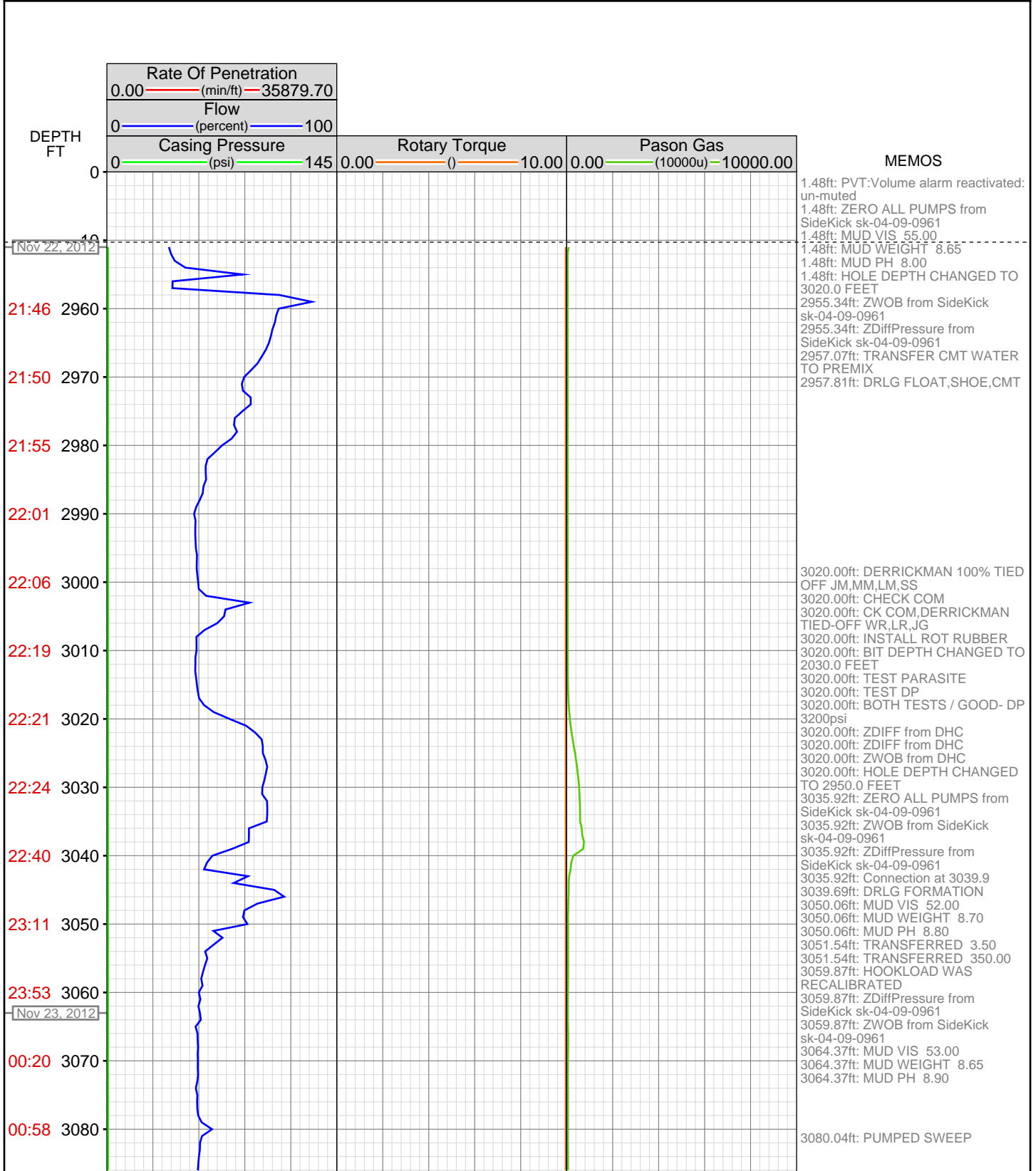


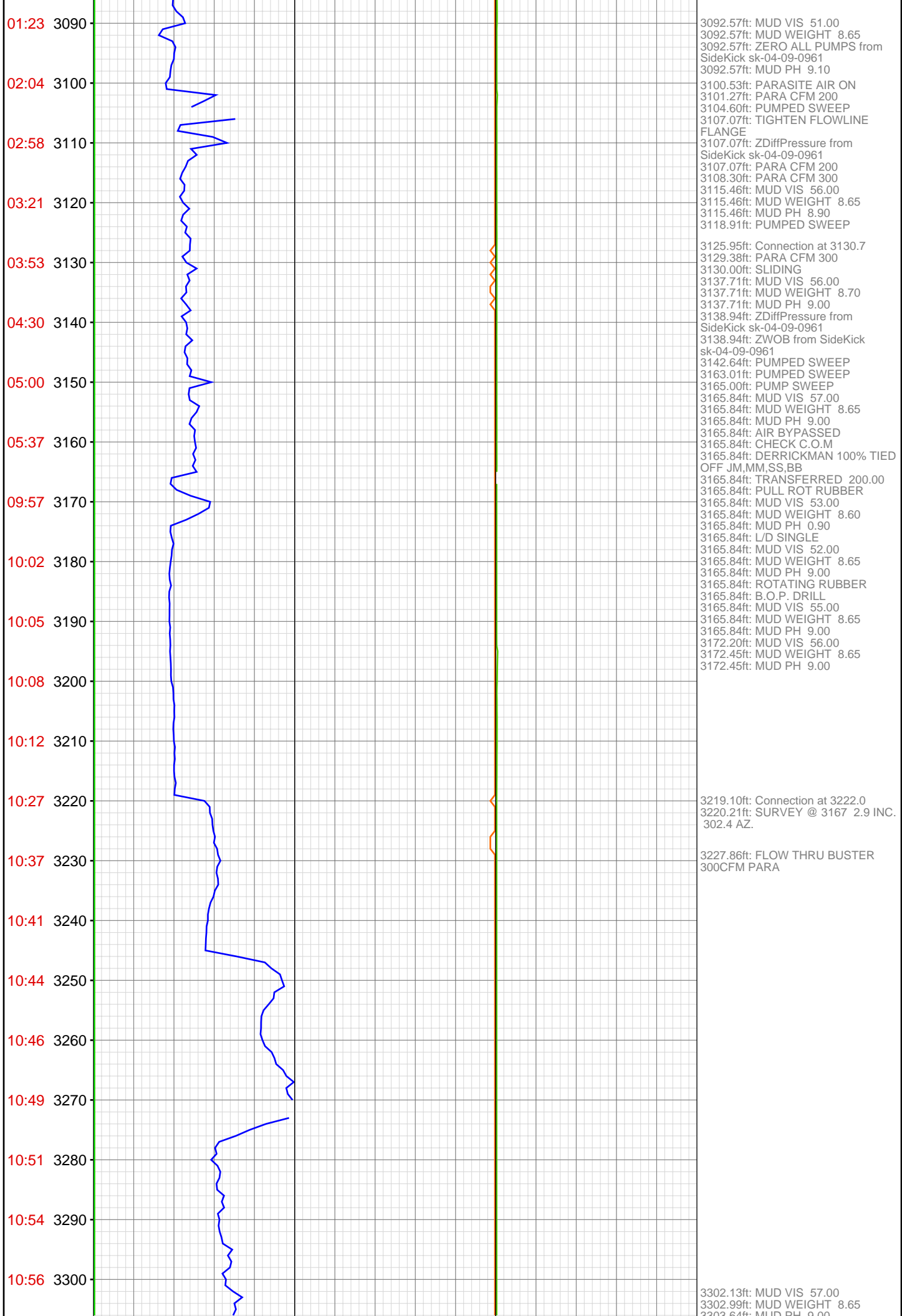
# DataHub EDR Log

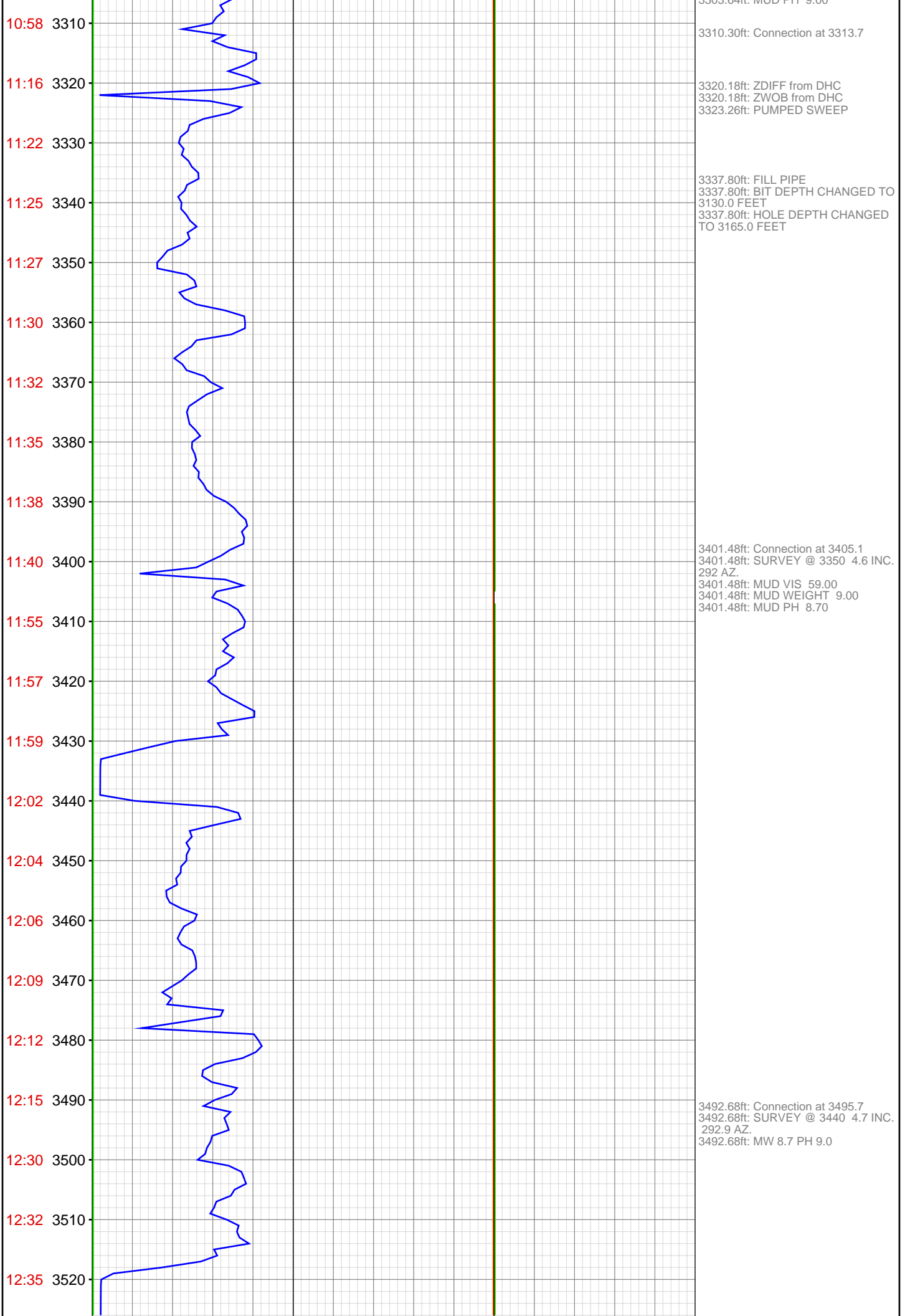
Thu Nov 29, 2012 10:07:24  
Well Dossier 1353542666  
Marilyn Tucker

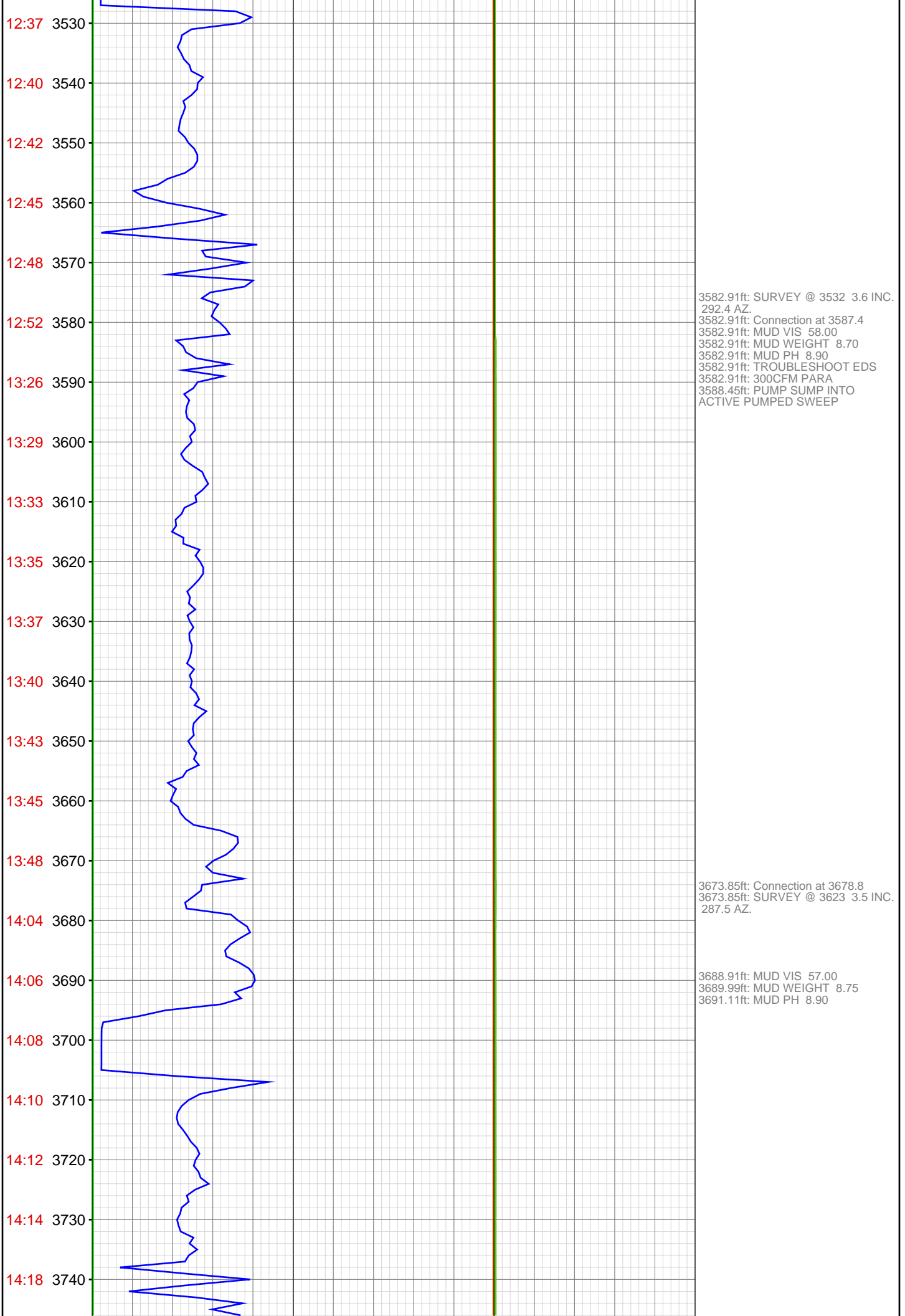
**OPERATOR:** EnCana Oil & Gas (USA), Inc.  
**WELL:** SGU 8504A-36 D36 496  
**FIELD:**  
**LOCATION:**  
**COUNTRY:** USA  
**RIG:** Pat-UTI 326

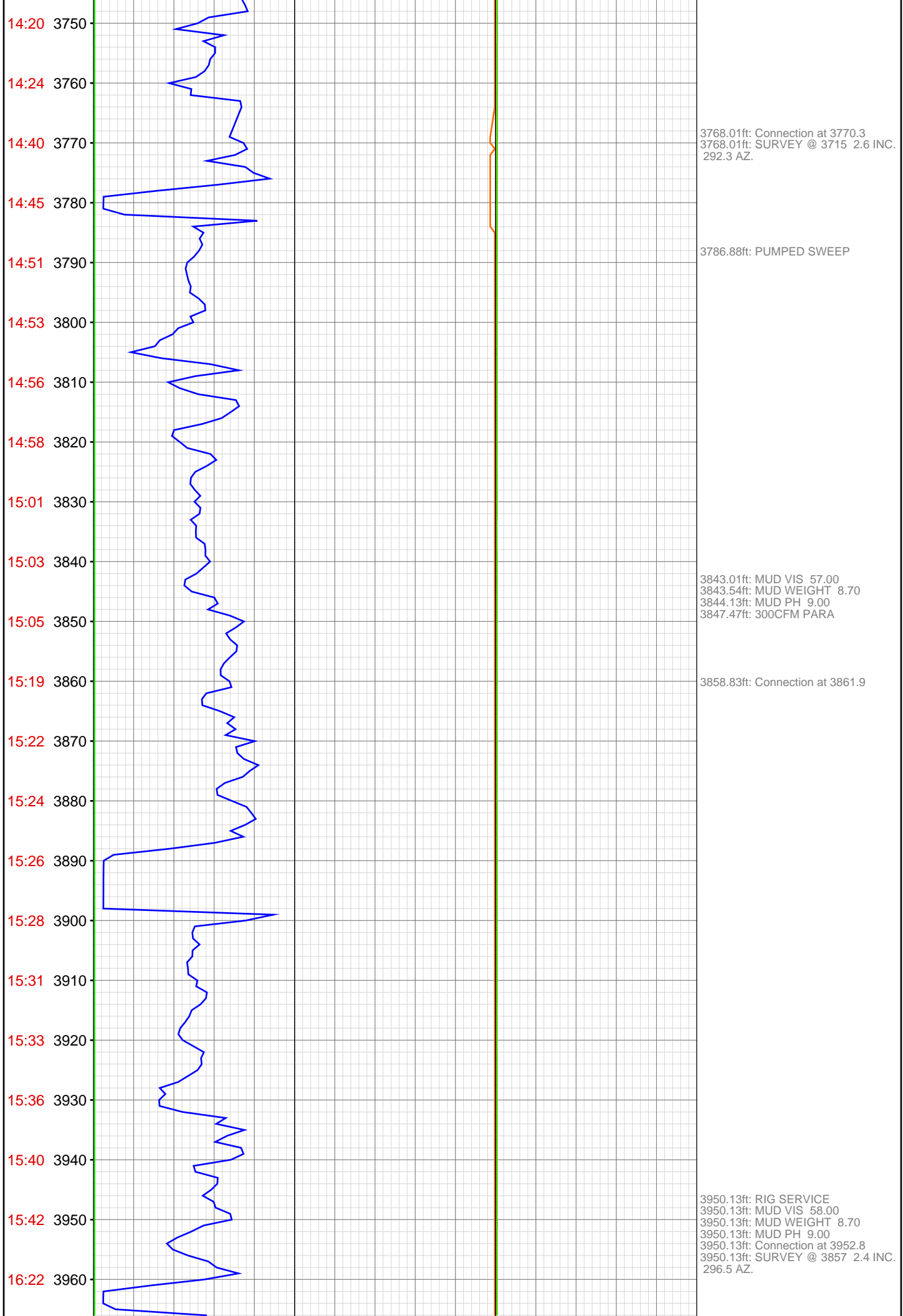
**CONTRACTOR:** Patterson-UTI Drilling Company  
**UNIQUE WELL ID:** 05045209150000  
**SPUD DATE:** Nov 22, 2012 21:00  
**RELEASE DATE:**

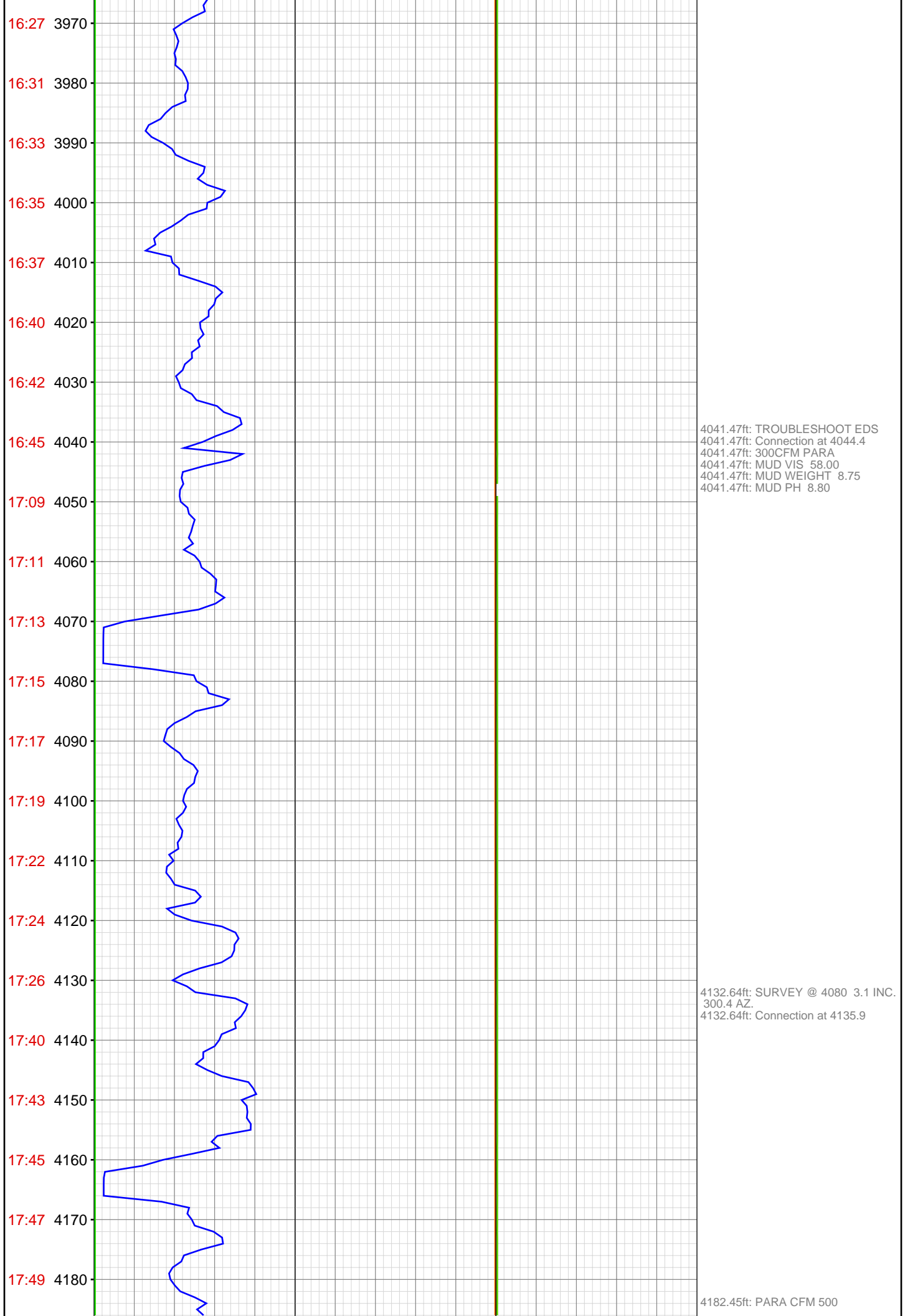




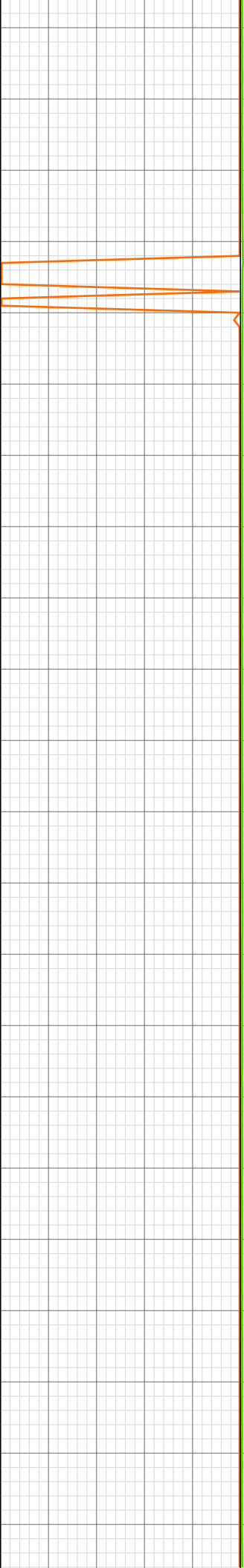
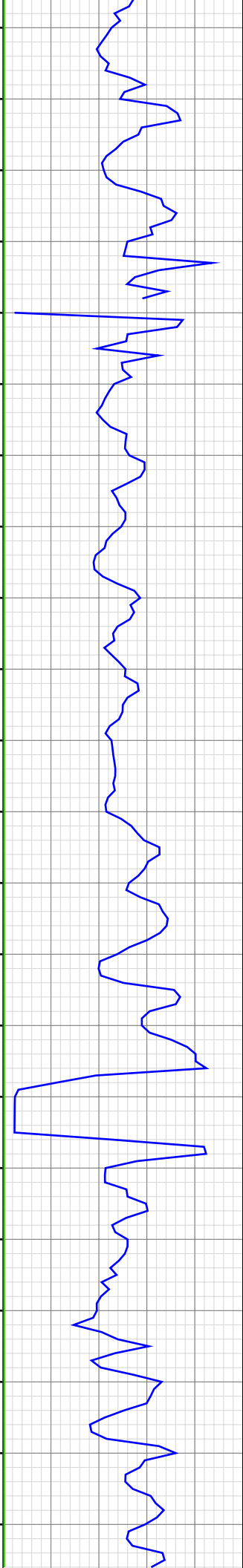








17:51 4190  
17:55 4200  
17:58 4210  
18:00 4220  
18:25 4230  
18:37 4240  
18:40 4250  
18:42 4260  
18:45 4270  
18:47 4280  
18:50 4290  
18:52 4300  
18:55 4310  
19:08 4320  
19:11 4330  
19:13 4340  
19:15 4350  
19:18 4360  
19:20 4370  
19:23 4380  
19:26 4390  
19:28 4400

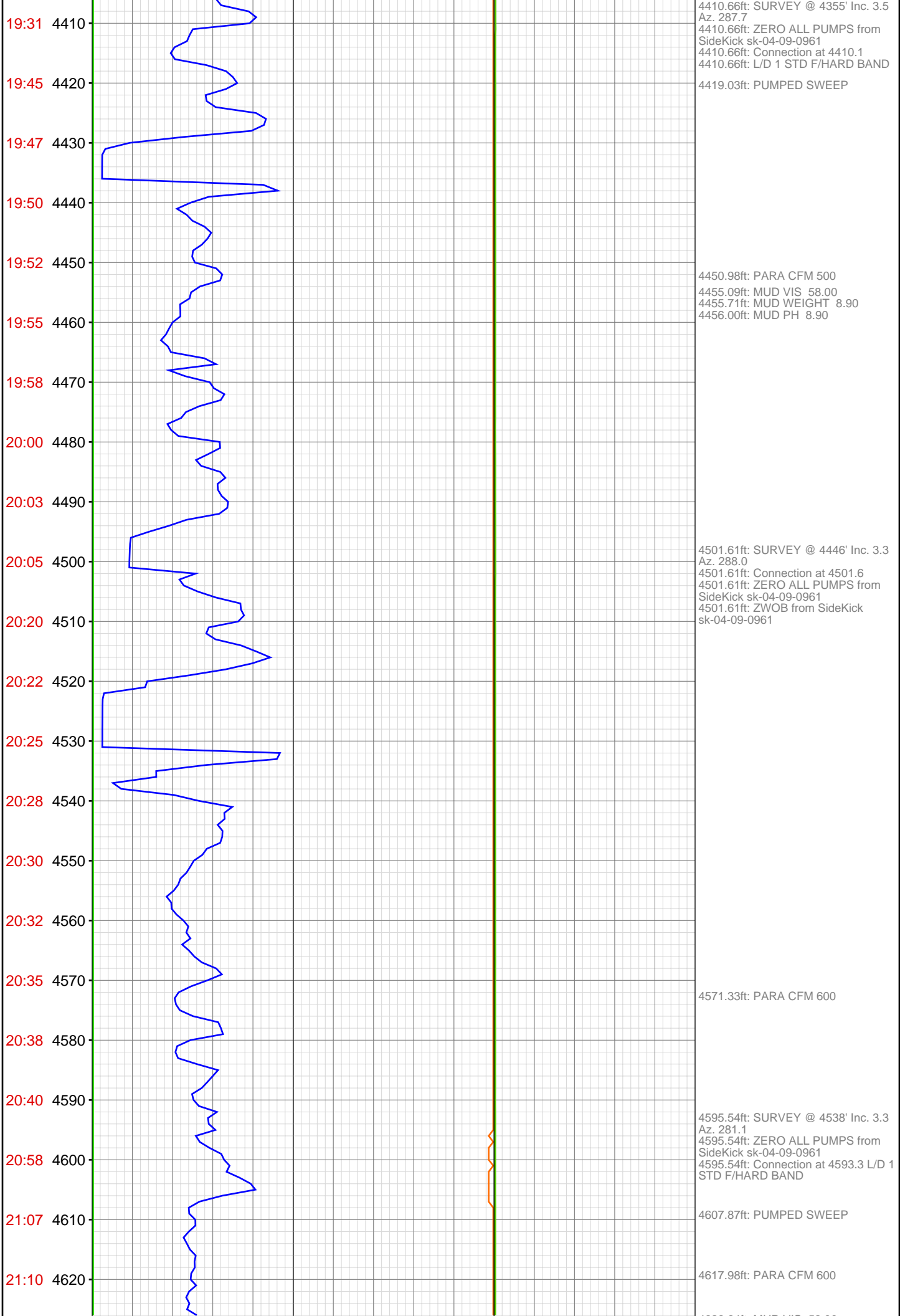


4222.87ft: ZERO ALL PUMPS from SideKick sk-04-09-0961  
4222.87ft: SURVEY @ 4172' Inc. 2.9 Az. 303.1  
4222.87ft: Connection at 4227.2  
4223.00ft: MUD VIS 58.00  
4223.16ft: MUD WEIGHT 8.80  
4223.16ft: MUD PH 9.00  
4229.07ft: ZDIFF from DHC

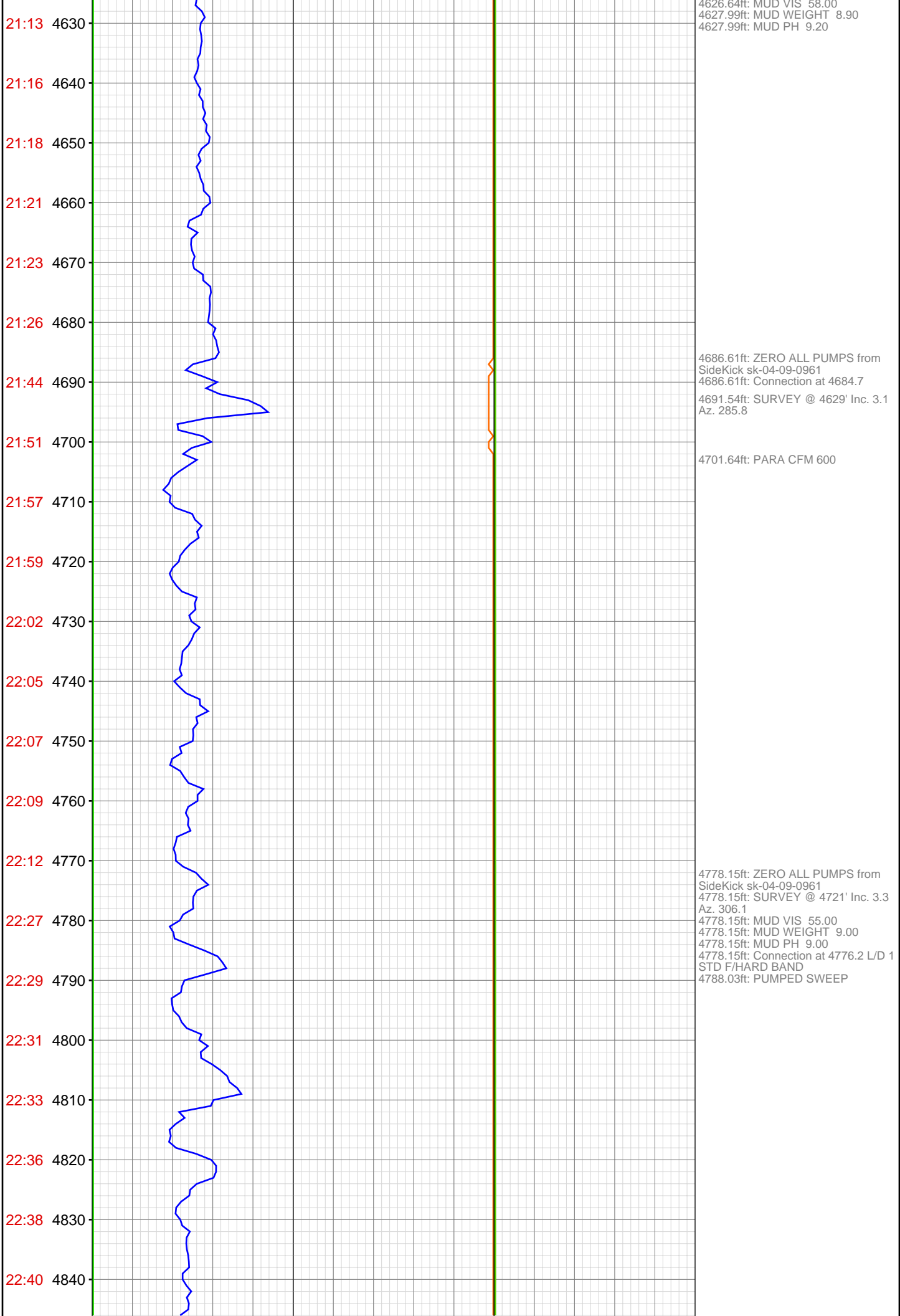
4237.96ft: ZWOB from SideKick sk-04-09-0961  
4237.96ft: ZDiffPressure from SideKick sk-04-09-0961

4293.86ft: PARA CFM 500

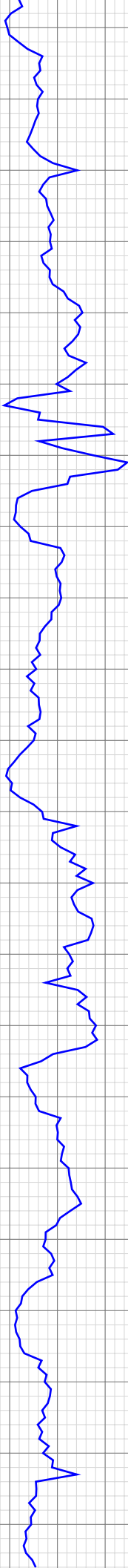
4316.31ft: SURVEY @ 4263' Inc. 3.5 Az. 293.6  
4316.31ft: ZERO ALL PUMPS from SideKick sk-04-09-0961  
4316.31ft: Connection at 4318.6  
4316.31ft: ZDiffPressure from SideKick sk-04-09-0961  
4316.31ft: ZWOB from SideKick sk-04-09-0961







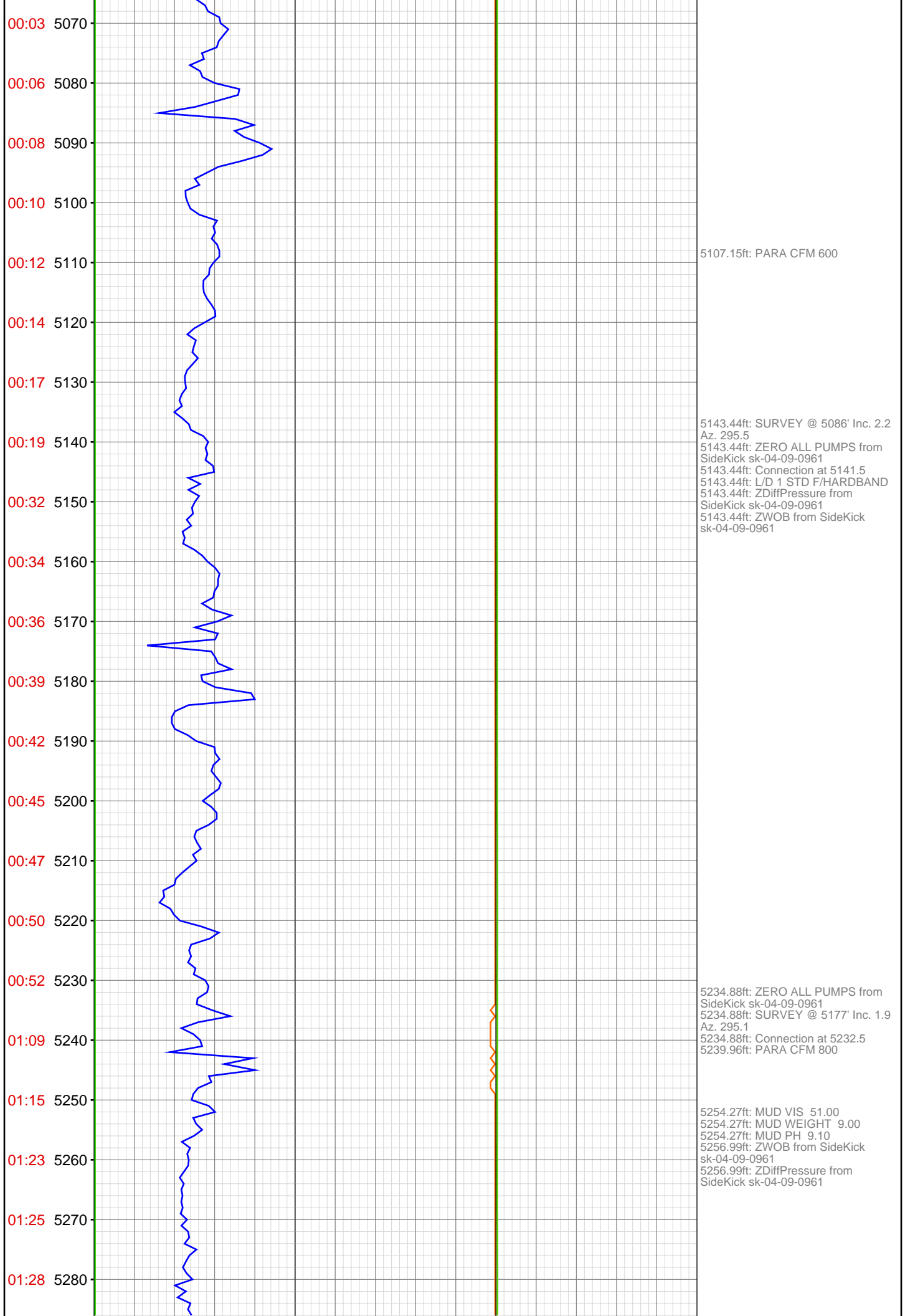
22:42 4850  
22:45 4860  
22:57 4870  
22:59 4880  
23:01 4890  
23:03 4900  
23:05 4910  
23:07 4920  
23:10 4930  
23:12 4940  
23:14 4950  
23:16 4960  
23:29 4970  
23:32 4980  
23:34 4990  
23:36 5000  
23:38 5010  
23:40 5020  
23:43 5030  
23:45 5040  
23:47 5050  
Nov 24, 2012  
00:01 5060

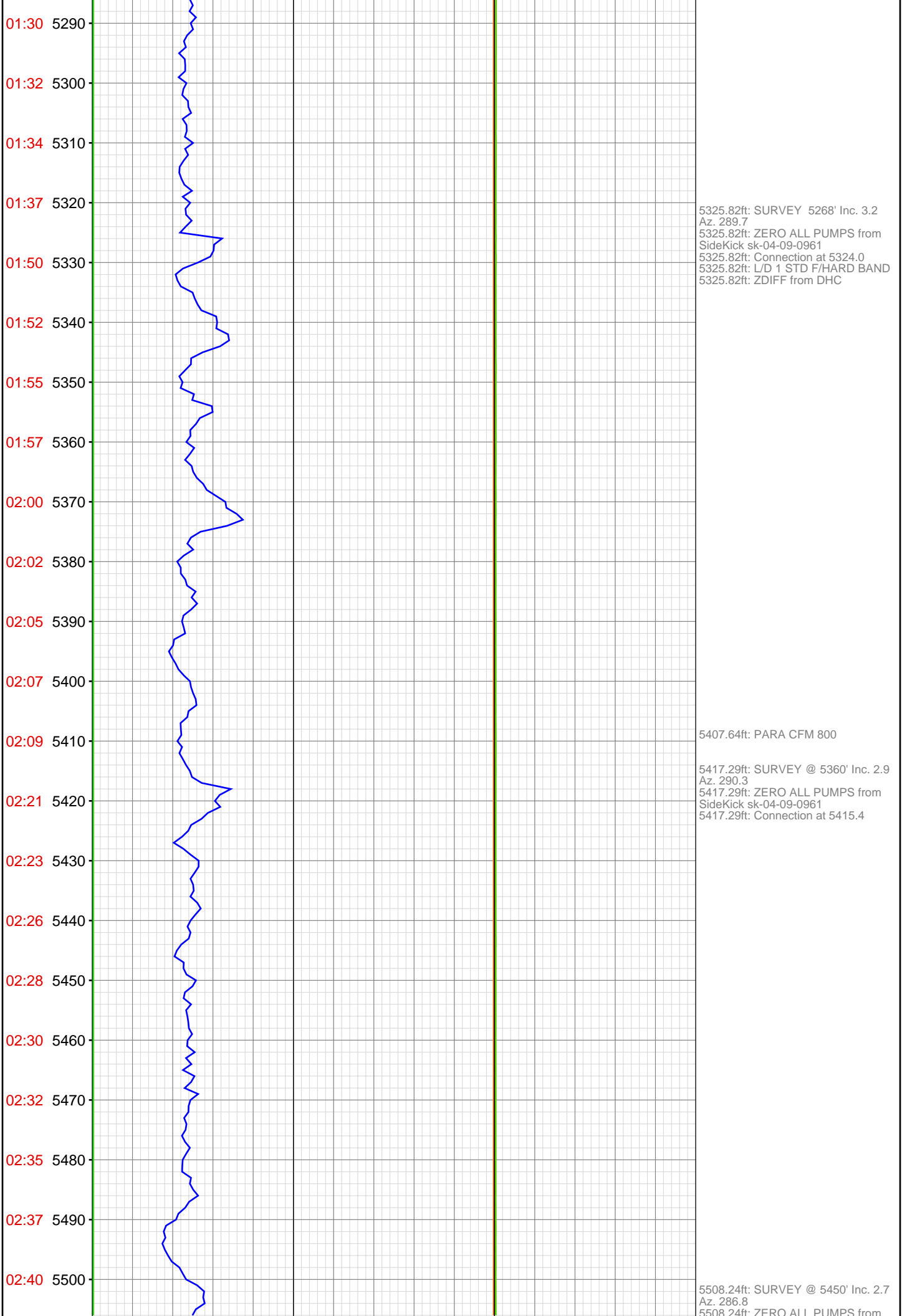


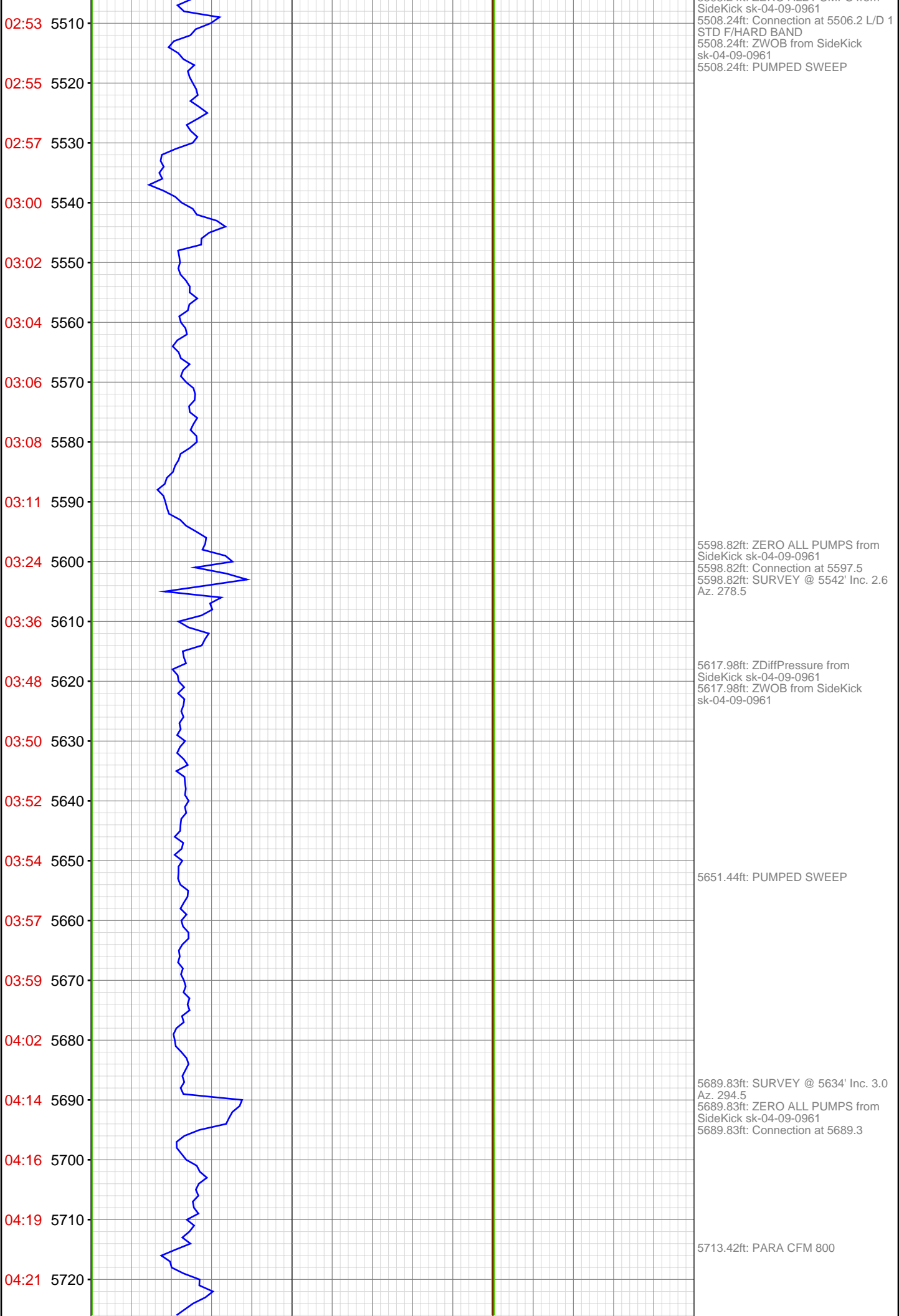
4868.50ft: PARA CFM 600  
4869.49ft: SURVEY @ 4812' Inc. 3.0  
Az. 303.8  
4869.49ft: ZERO ALL PUMPS from  
SideKick sk-04-09-0961  
4869.49ft: Connection at 4867.5  
4869.49ft: ZDiffPressure from  
SideKick sk-04-09-0961  
4869.49ft: ZWOB from SideKick  
sk-04-09-0961

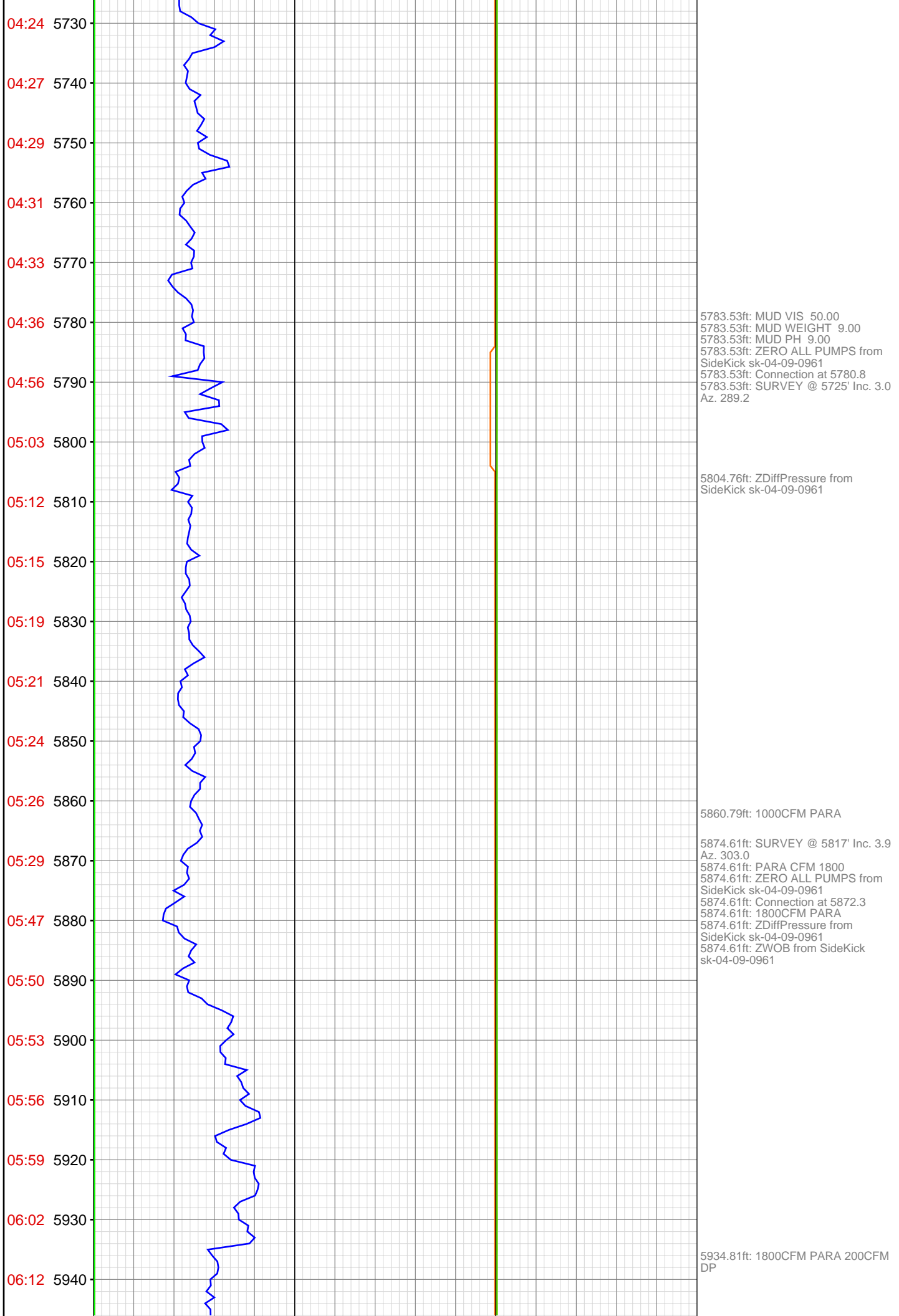
4961.06ft: ZERO ALL PUMPS from  
SideKick sk-04-09-0961  
4961.06ft: SURVEY @ 4903' Inc. 2.8  
Az. 304.2  
4961.06ft: Connection at 4958.8 L/D 1  
STD F/HARD BAND  
4961.06ft: ZWOB from SideKick  
sk-04-09-0961  
4961.06ft: ZDiffPressure from  
SideKick sk-04-09-0961  
4961.06ft: PUMPED SWEEP

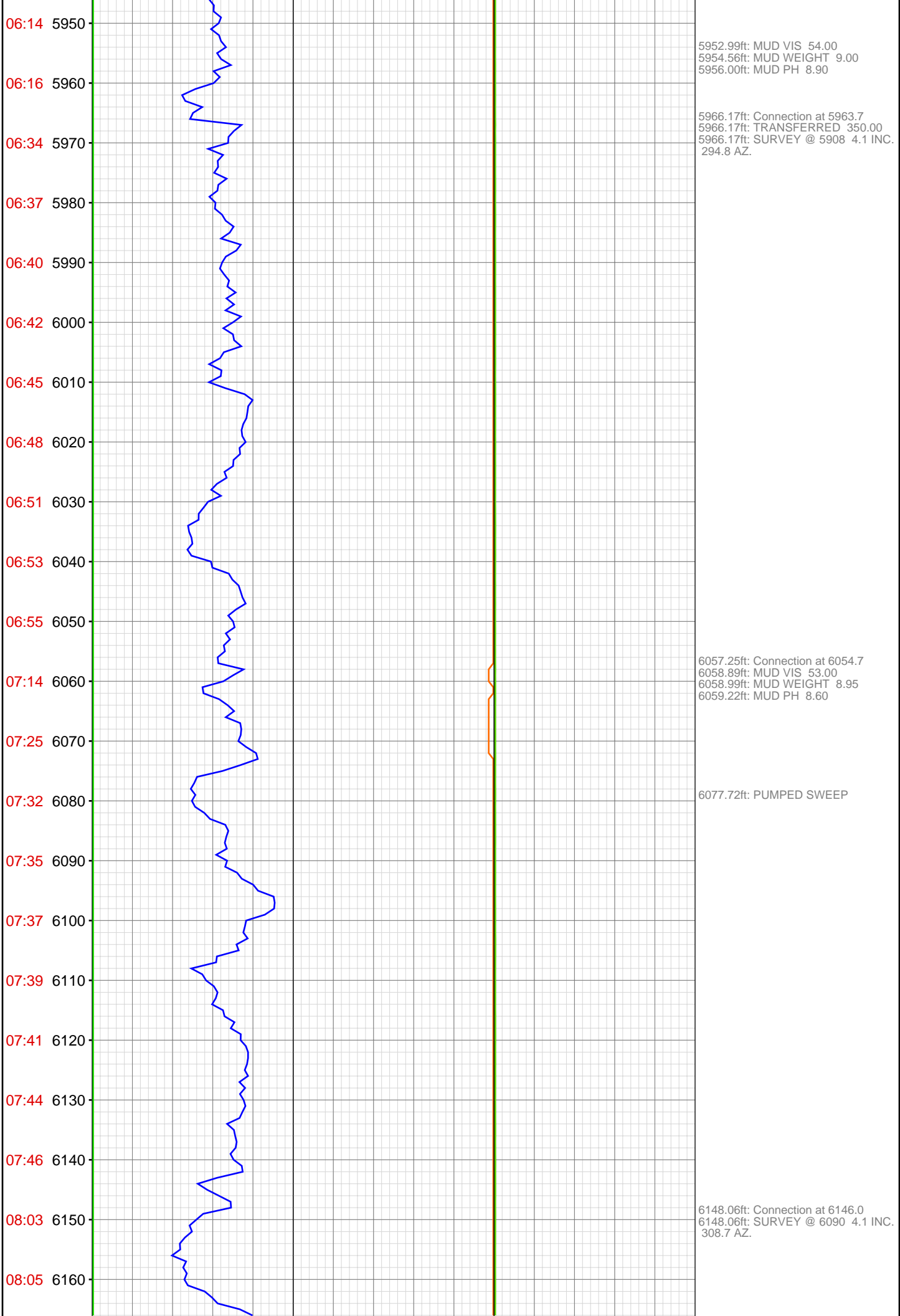
5052.13ft: MUD VIS 59.00  
5052.13ft: MUD WEIGHT 9.00  
5052.13ft: MUD PH 9.20  
5052.13ft: ZERO ALL PUMPS from  
SideKick sk-04-09-0961  
5052.13ft: Connection at 5050.2

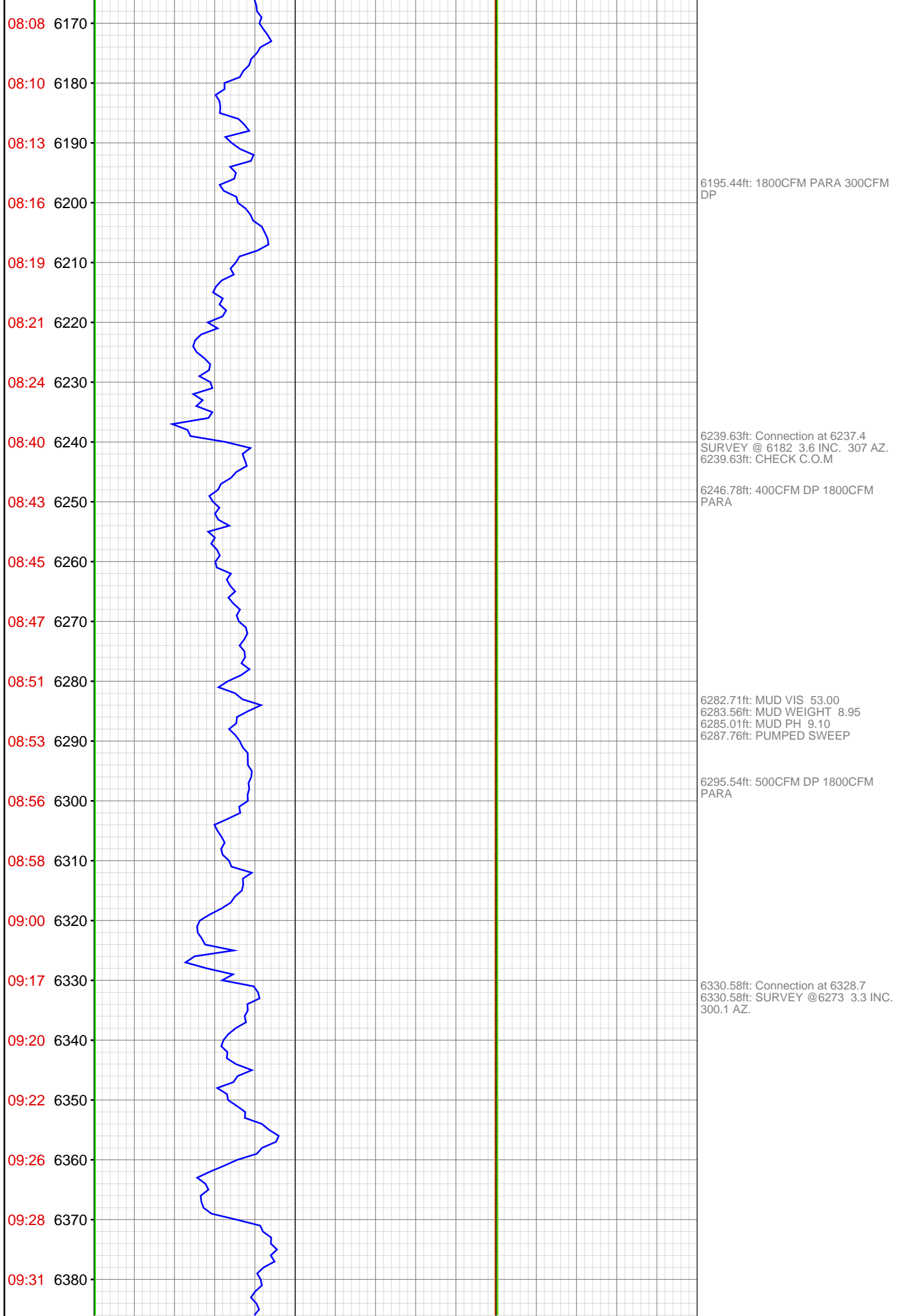




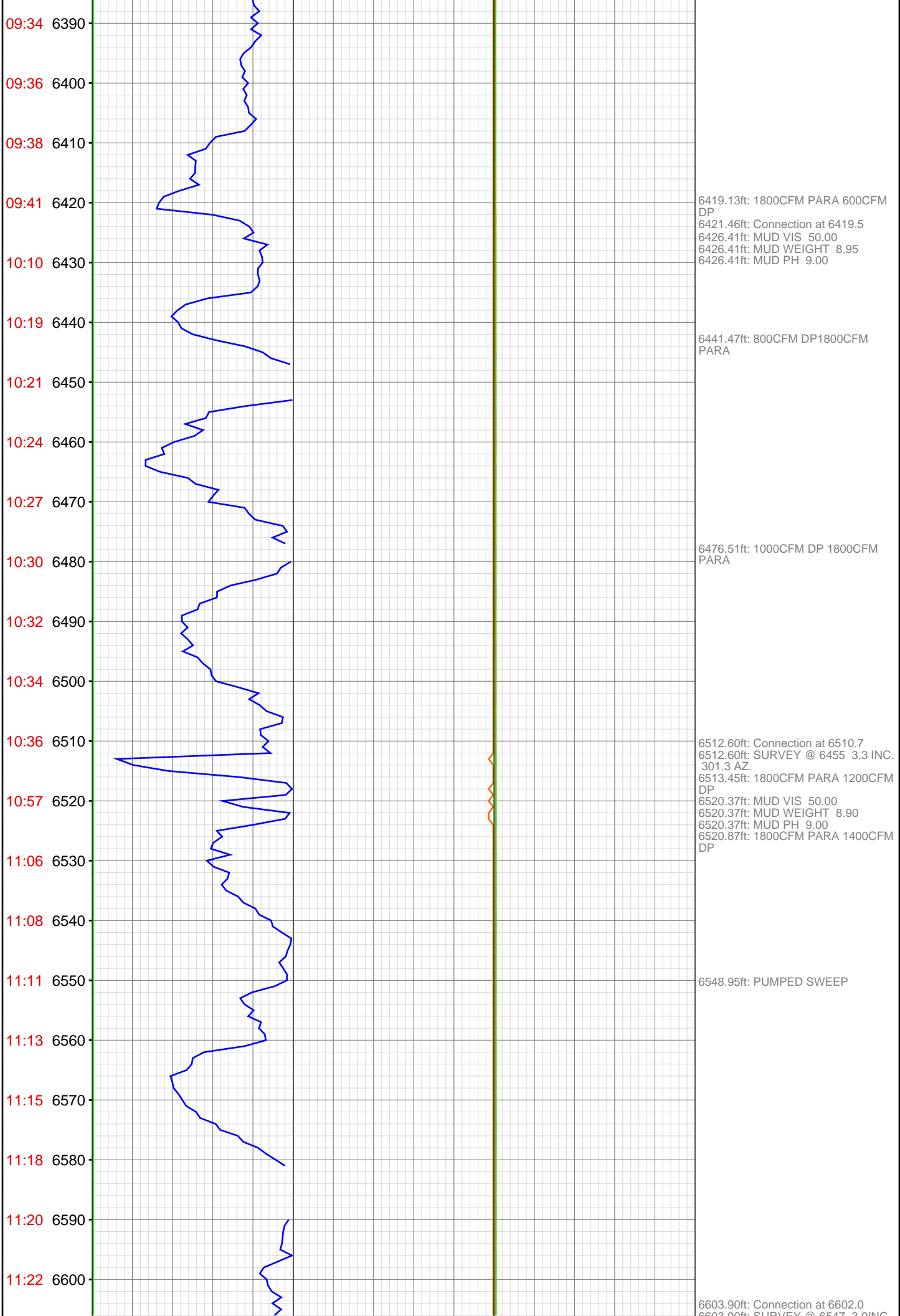


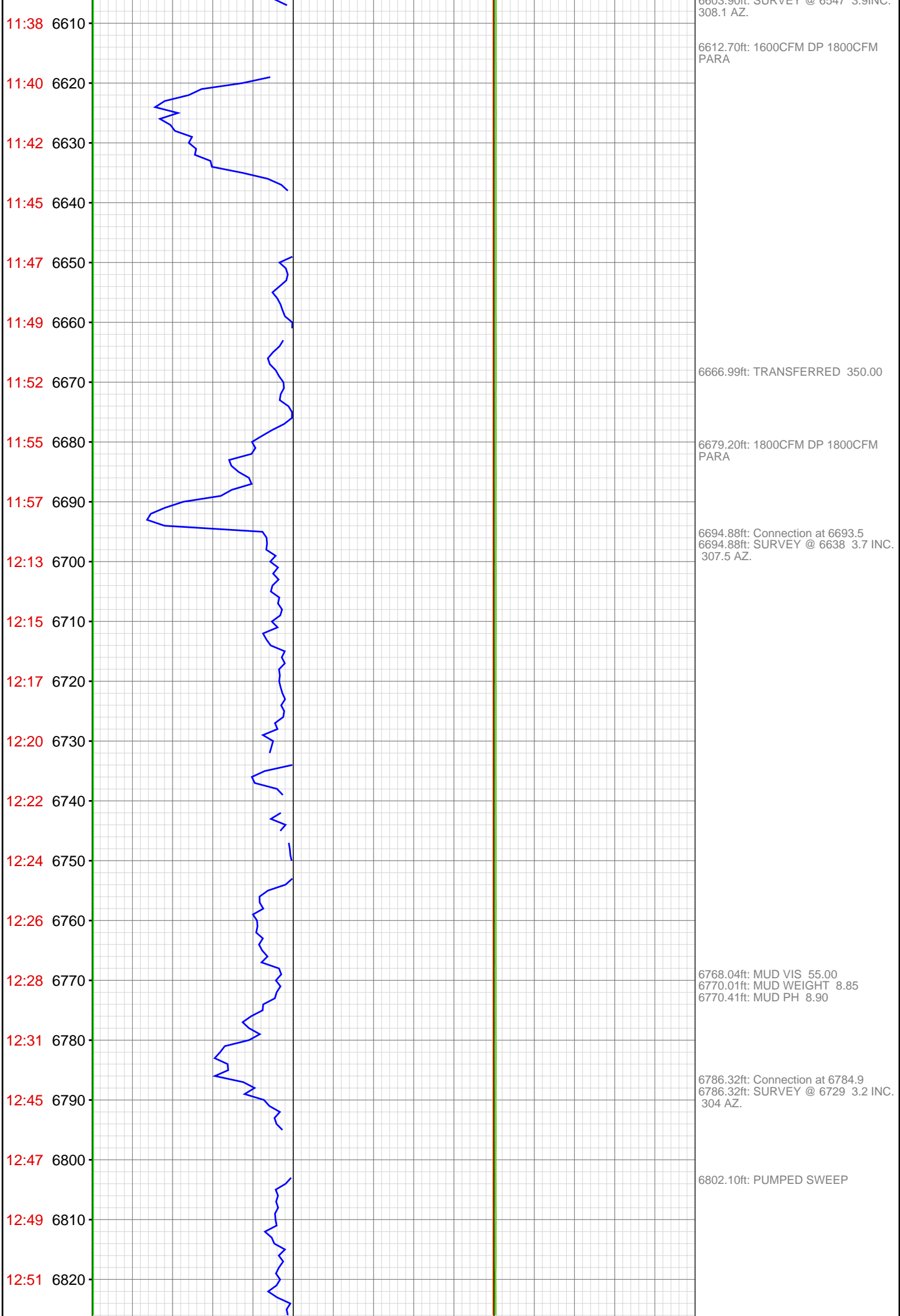




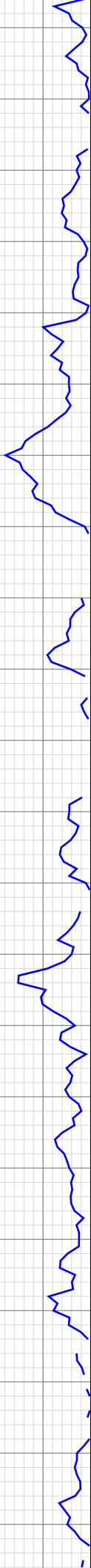






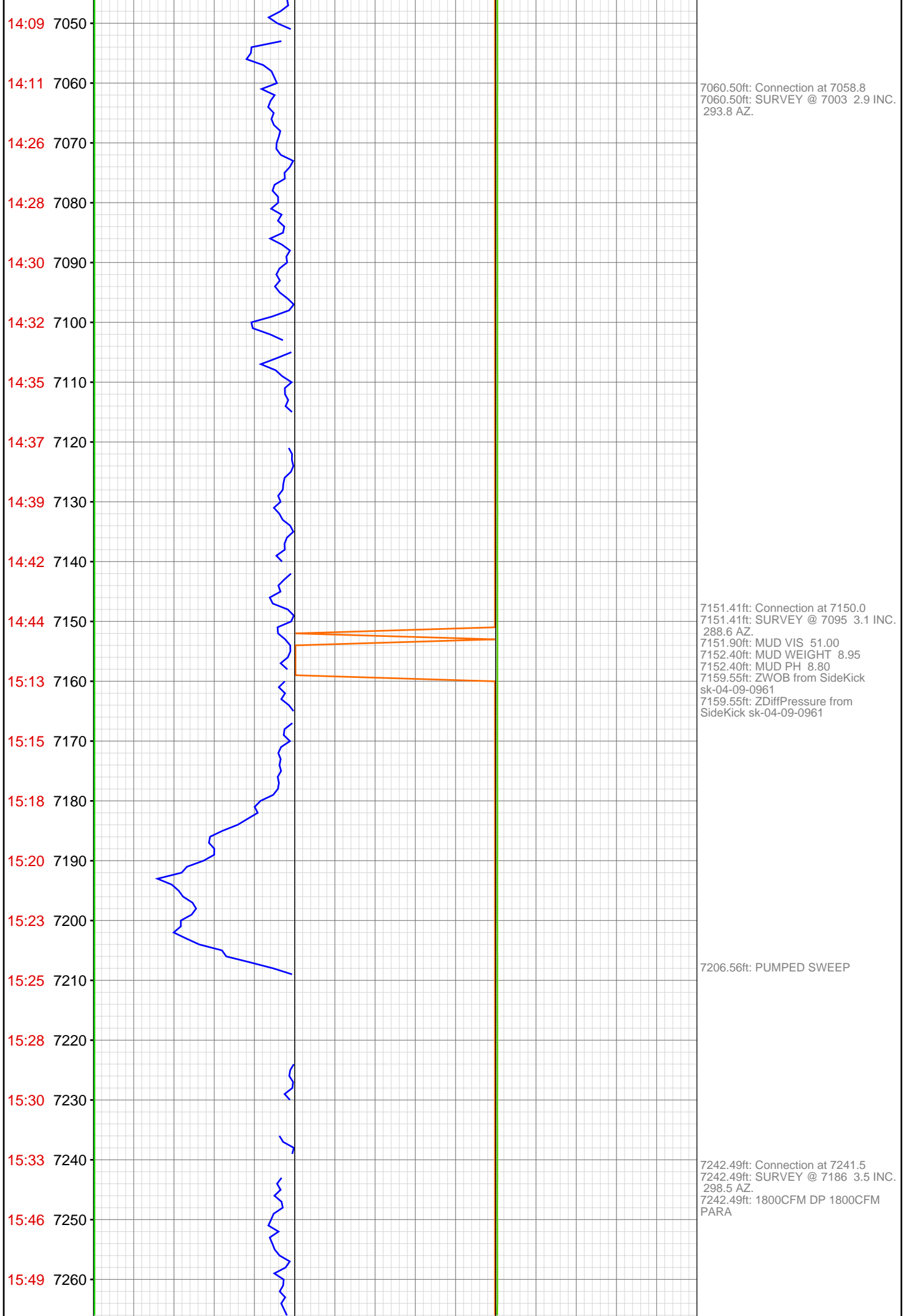


12:54 6830  
12:56 6840  
12:58 6850  
13:00 6860  
13:02 6870  
13:18 6880  
13:20 6890  
13:22 6900  
13:24 6910  
13:27 6920  
13:29 6930  
13:31 6940  
13:33 6950  
13:35 6960  
13:51 6970  
13:53 6980  
13:56 6990  
13:58 7000  
14:00 7010  
14:02 7020  
14:05 7030  
14:07 7040



6877.62ft: Connection at 6876.1  
6877.62ft: SURVEY @ 6821 2.9 INC.  
304.6 AZ.  
6882.09ft: 1800CFM DP 1800CFM  
PARA

6968.96ft: Connection at 6967.7  
SURVEY @ 6912 2.7 INC. 298.3  
AZ.  
6968.96ft: MUD VIS 51.00  
6968.96ft: MUD WEIGHT 8.85  
6968.96ft: MUD PH 9.00

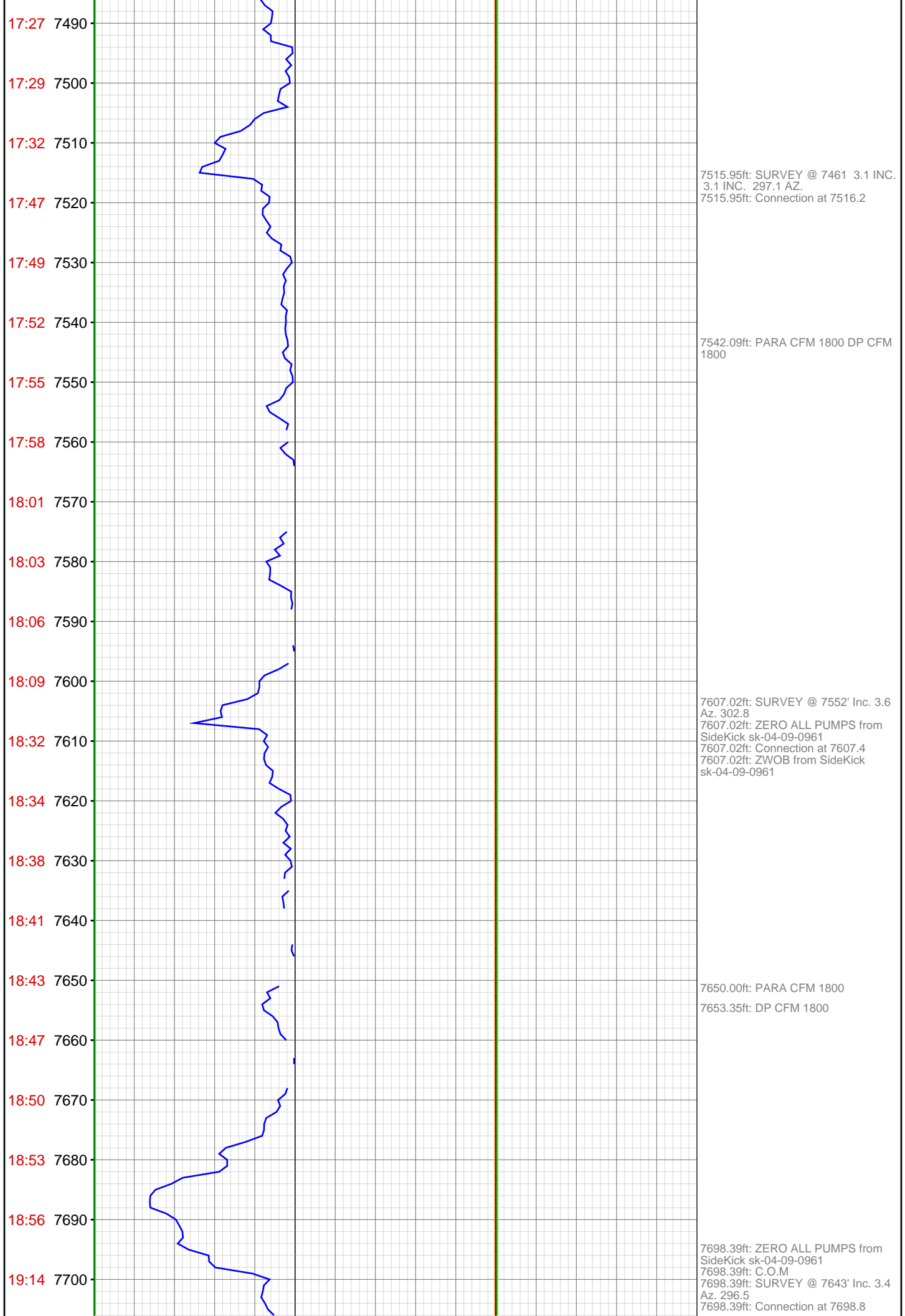


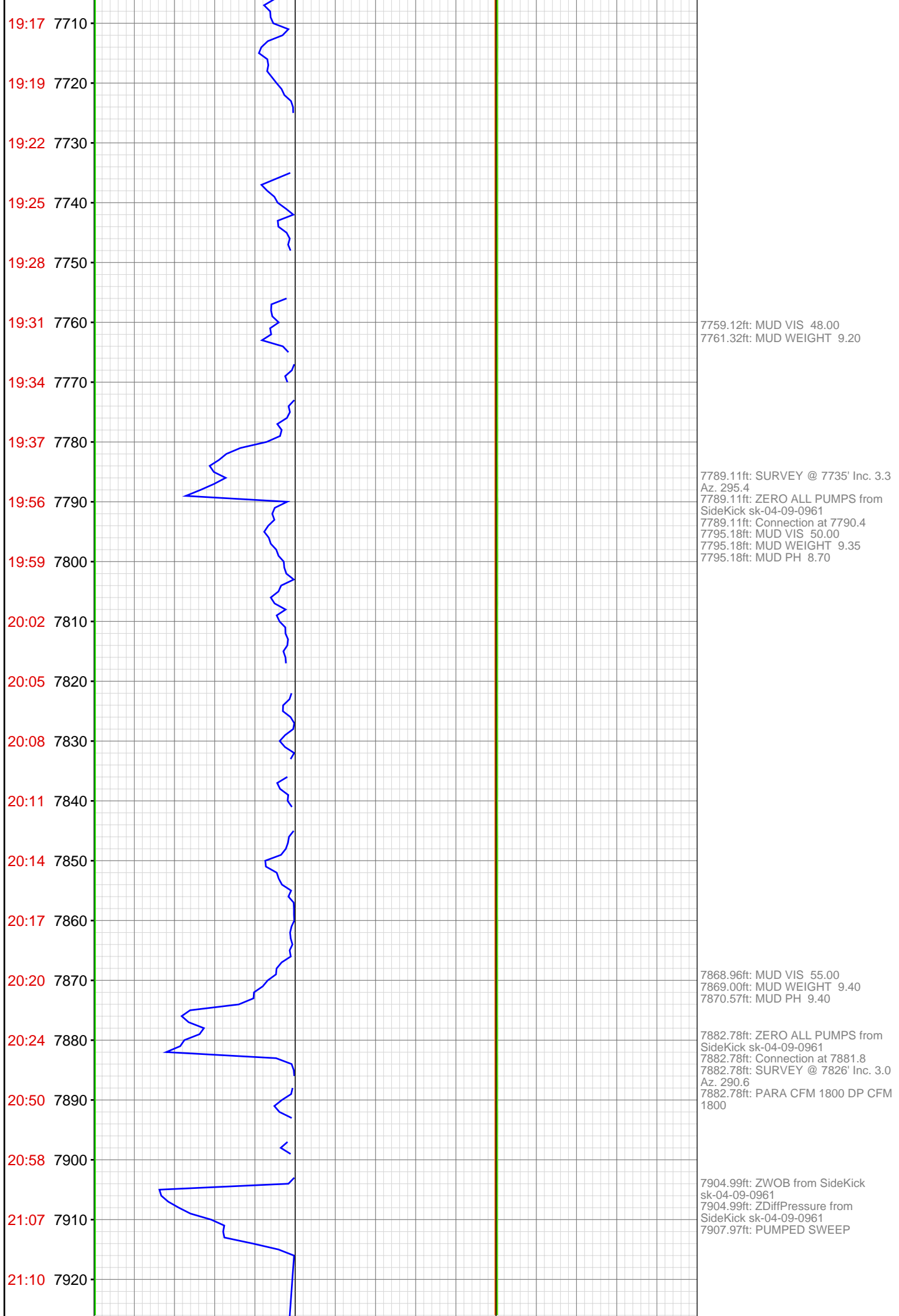
15:51 7270  
15:54 7280  
15:56 7290  
15:58 7300  
16:00 7310  
16:02 7320  
16:05 7330  
16:19 7340  
16:21 7350  
16:24 7360  
16:27 7370  
16:29 7380  
16:31 7390  
16:33 7400  
16:35 7410  
16:38 7420  
17:12 7430  
17:14 7440  
17:16 7450  
17:19 7460  
17:21 7470  
17:24 7480



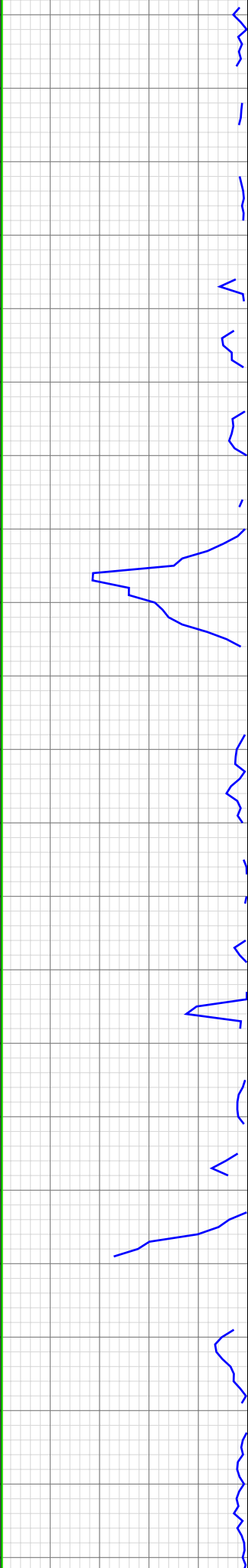
7331.33ft: MUD VIS 49.00  
7333.43ft: MUD WEIGHT 8.95  
7333.43ft: MUD PH 9.10  
7333.43ft: Connection at 7333.1  
7333.43ft: SURVEY @ 7278 3.1 INC.  
300.5 AZ.

7424.38ft: RIG SERVICE  
7424.38ft: MUD VIS 49.00  
7424.38ft: MUD WEIGHT 8.95  
7424.38ft: MUD PH 9.00  
7424.38ft: Connection at 7424.6  
7424.38ft: SURVEY @ 7369 3.4 INC.  
299.8 AZ.  
7426.54ft: 1800CFM DP 1800CFM  
PARA





21:13 7930  
21:16 7940  
21:18 7950  
21:21 7960  
21:24 7970  
21:46 7980  
21:54 7990  
22:02 8000  
22:09 8010  
22:12 8020  
22:14 8030  
22:17 8040  
22:20 8050  
22:23 8060  
22:45 8070  
22:54 8080  
23:02 8090  
23:12 8100  
23:15 8110  
23:18 8120  
23:21 8130  
23:24 8140



7973.85ft: ZERO ALL PUMPS from  
SideKick sk-04-09-0961  
7973.85ft: Connection at 7973.1  
SURVEY @ 7918' Inc. 2.7 Az. 263.8  
7973.85ft: MUD VIS 53.00  
7973.85ft: MUD WEIGHT 9.50  
7973.85ft: MUD PH 9.20

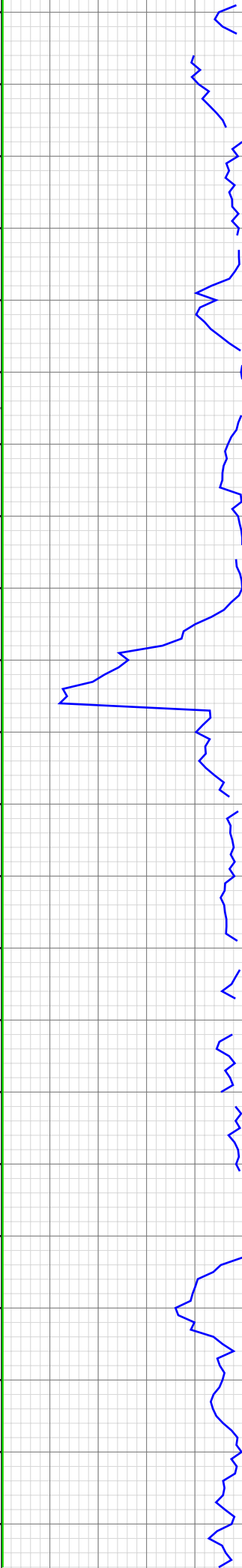
8005.15ft: ZDiffPressure from  
SideKick sk-04-09-0961  
8005.15ft: ZWOB from SideKick  
sk-04-09-0961

8064.73ft: ZERO ALL PUMPS from  
SideKick sk-04-09-0961  
8064.73ft: Connection at 8064.3  
SURVEY @ 8009' Inc. 1.9 Az. 229.0  
8067.45ft: PARA CFM 1800 DP CFM  
1800

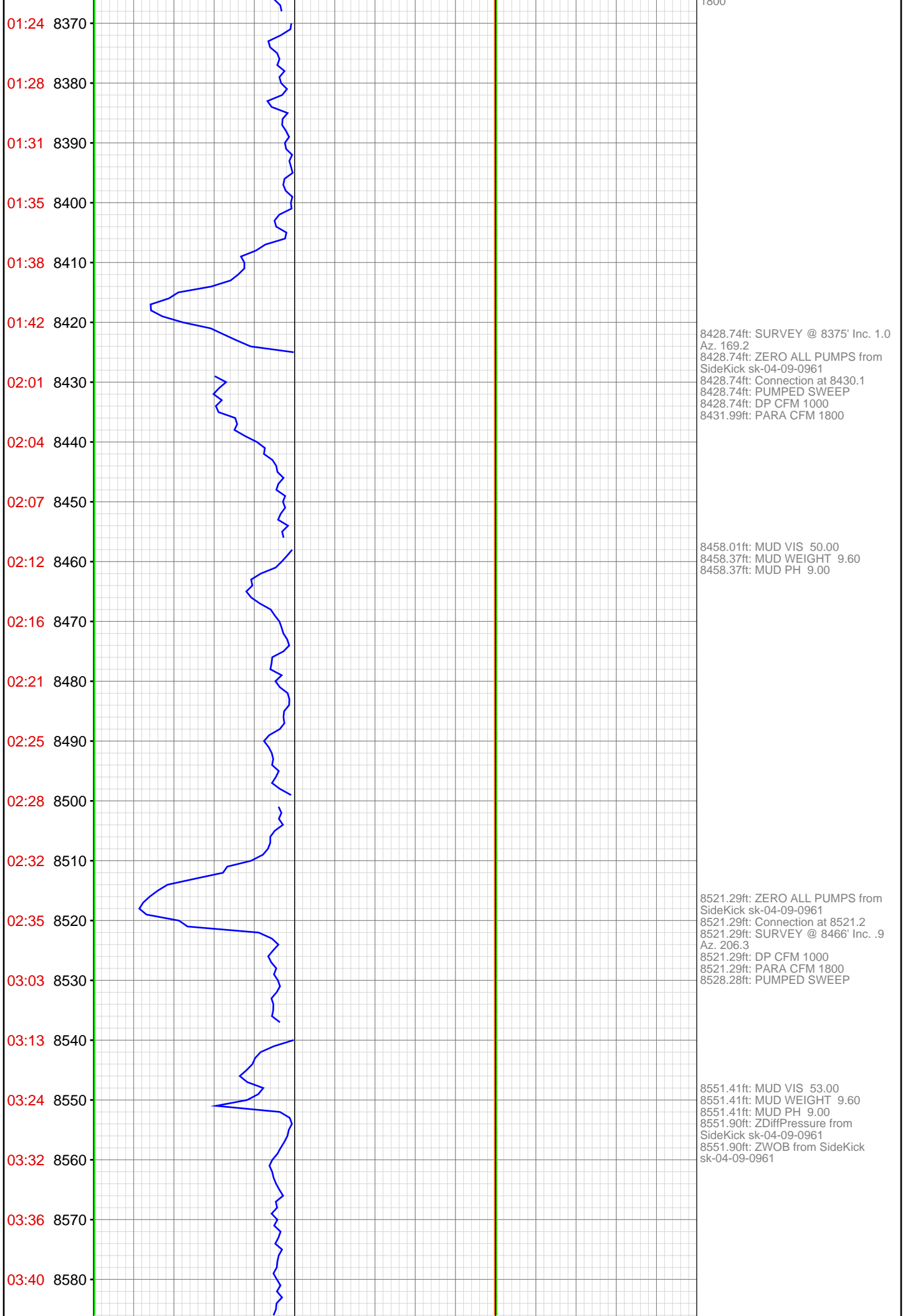
8099.05ft: ZDiffPressure from  
SideKick sk-04-09-0961

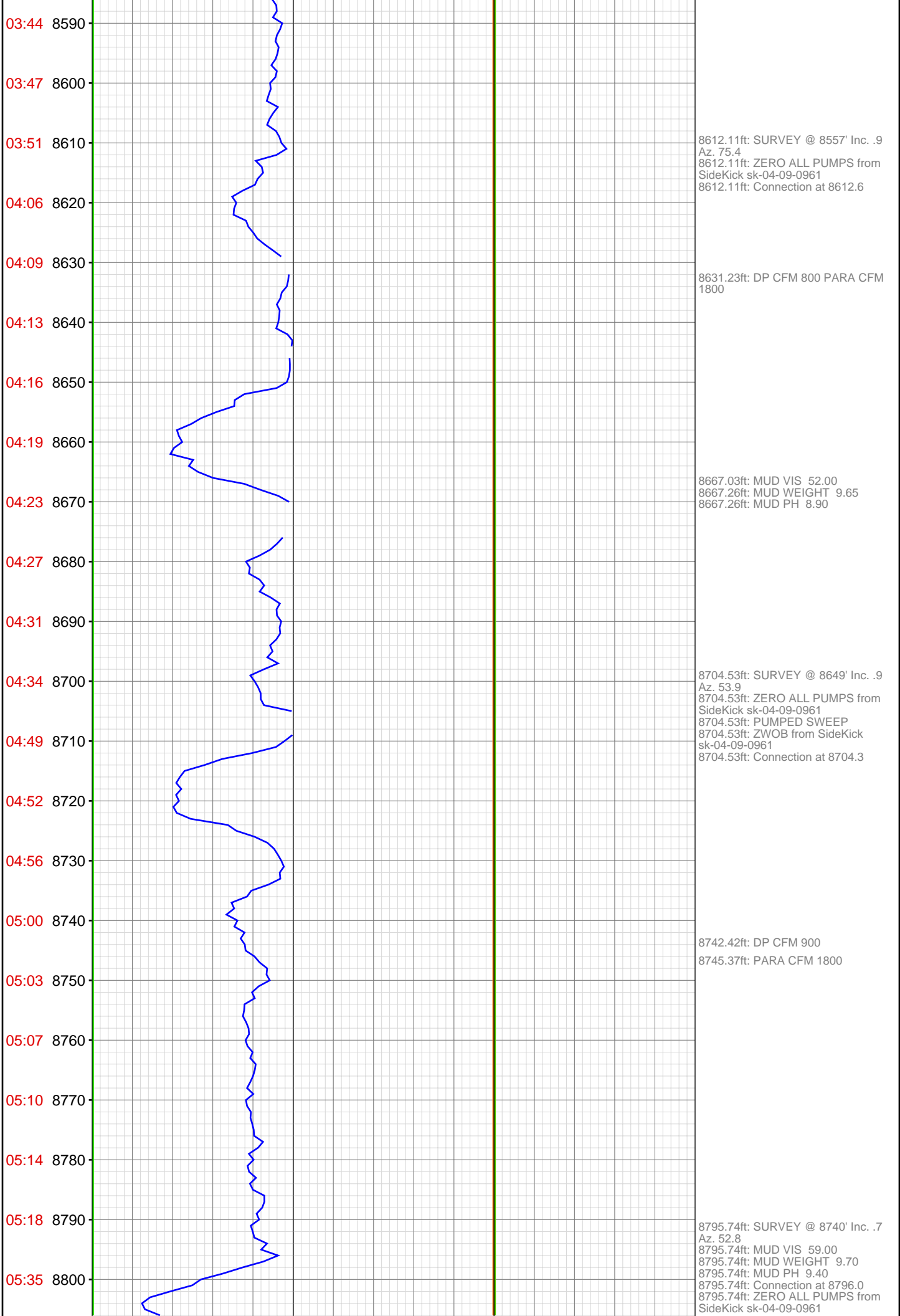


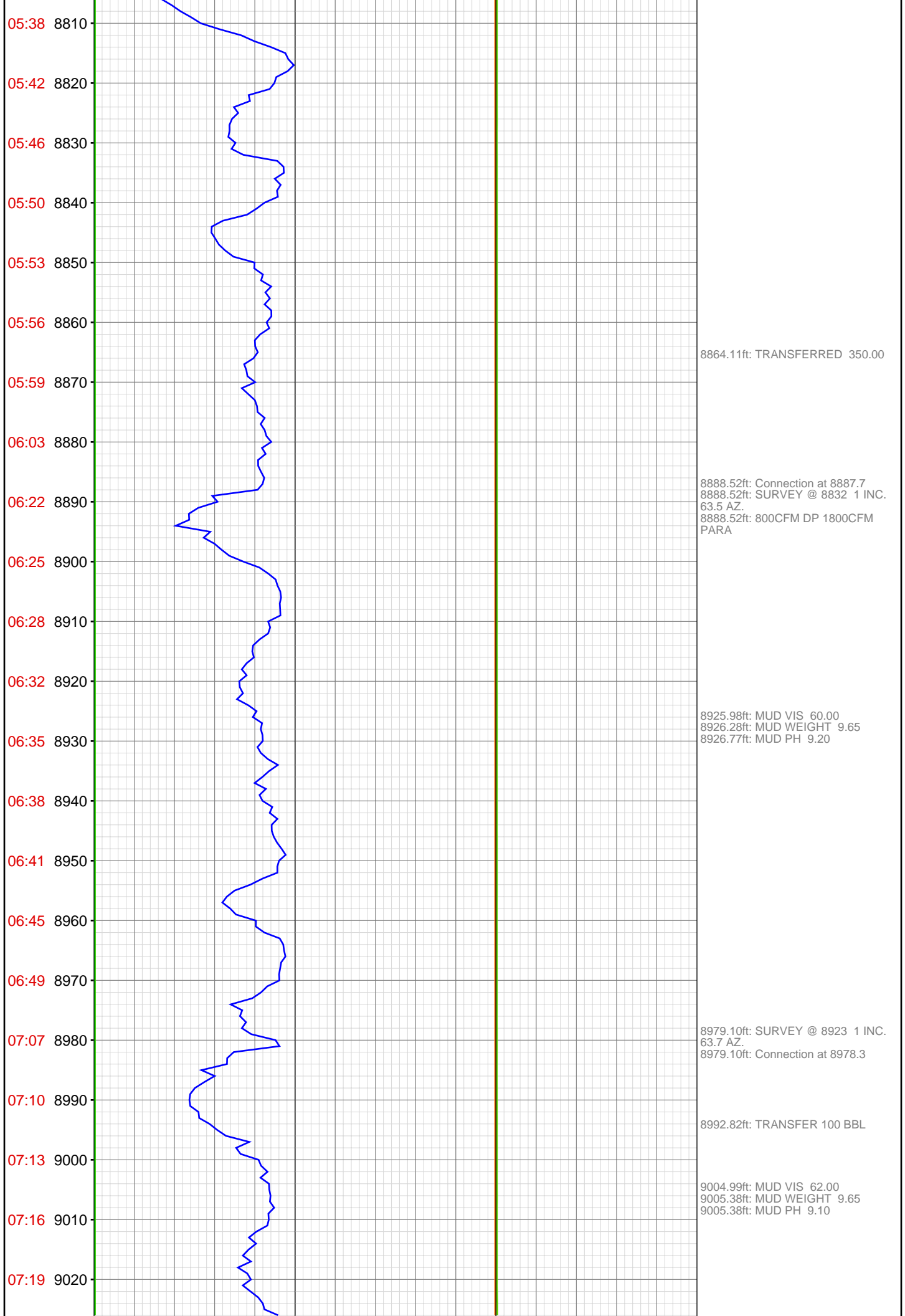
23:26 8150  
23:43 8160  
23:47 8170  
23:51 8180  
23:54 8190  
23:58 8200  
Nov 25, 2012  
00:01 8210  
00:04 8220  
00:08 8230  
00:11 8240  
00:27 8250  
00:30 8260  
00:33 8270  
00:36 8280  
00:40 8290  
00:42 8300  
00:46 8310  
00:49 8320  
00:52 8330  
01:12 8340  
01:16 8350  
01:19 8360

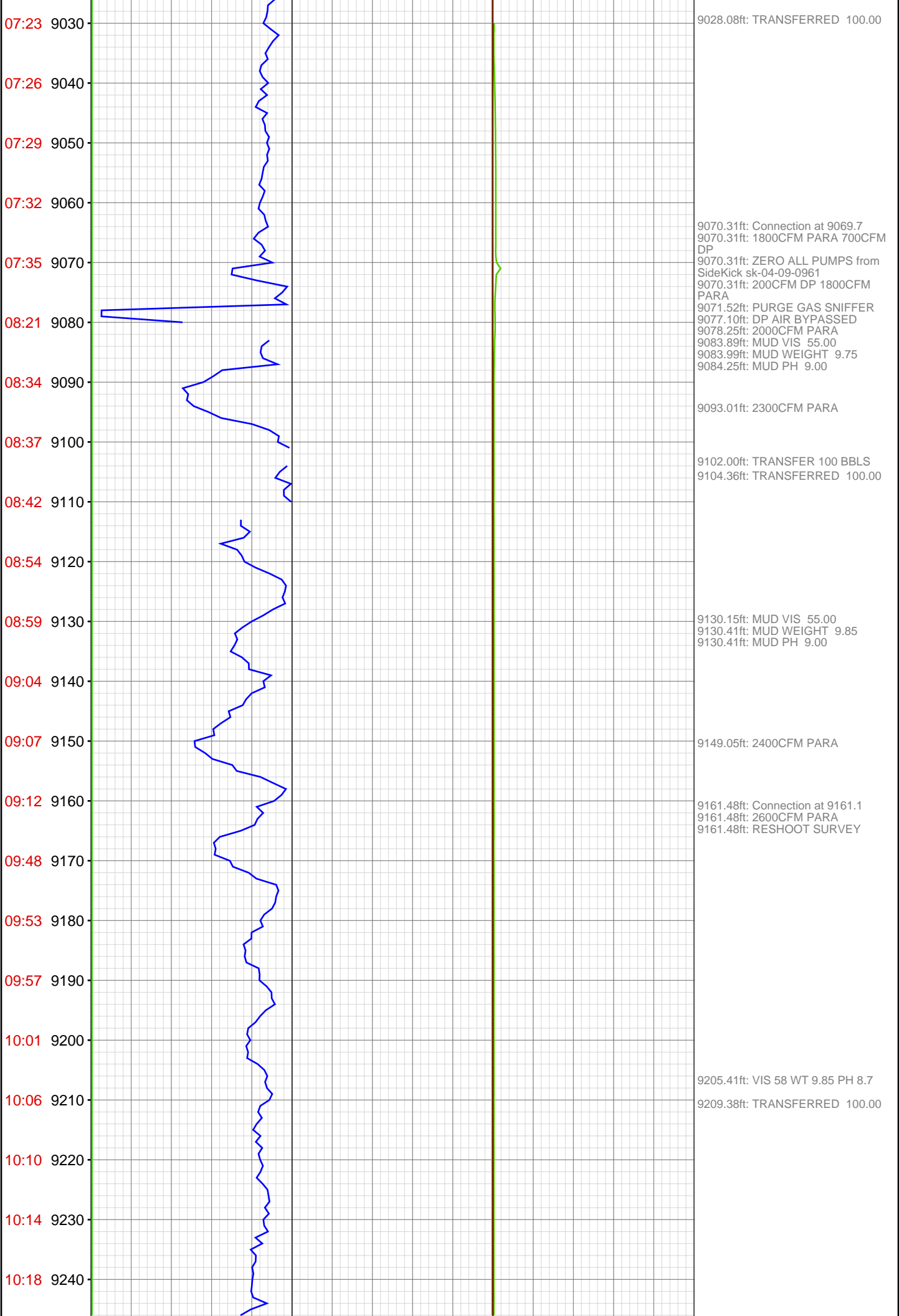


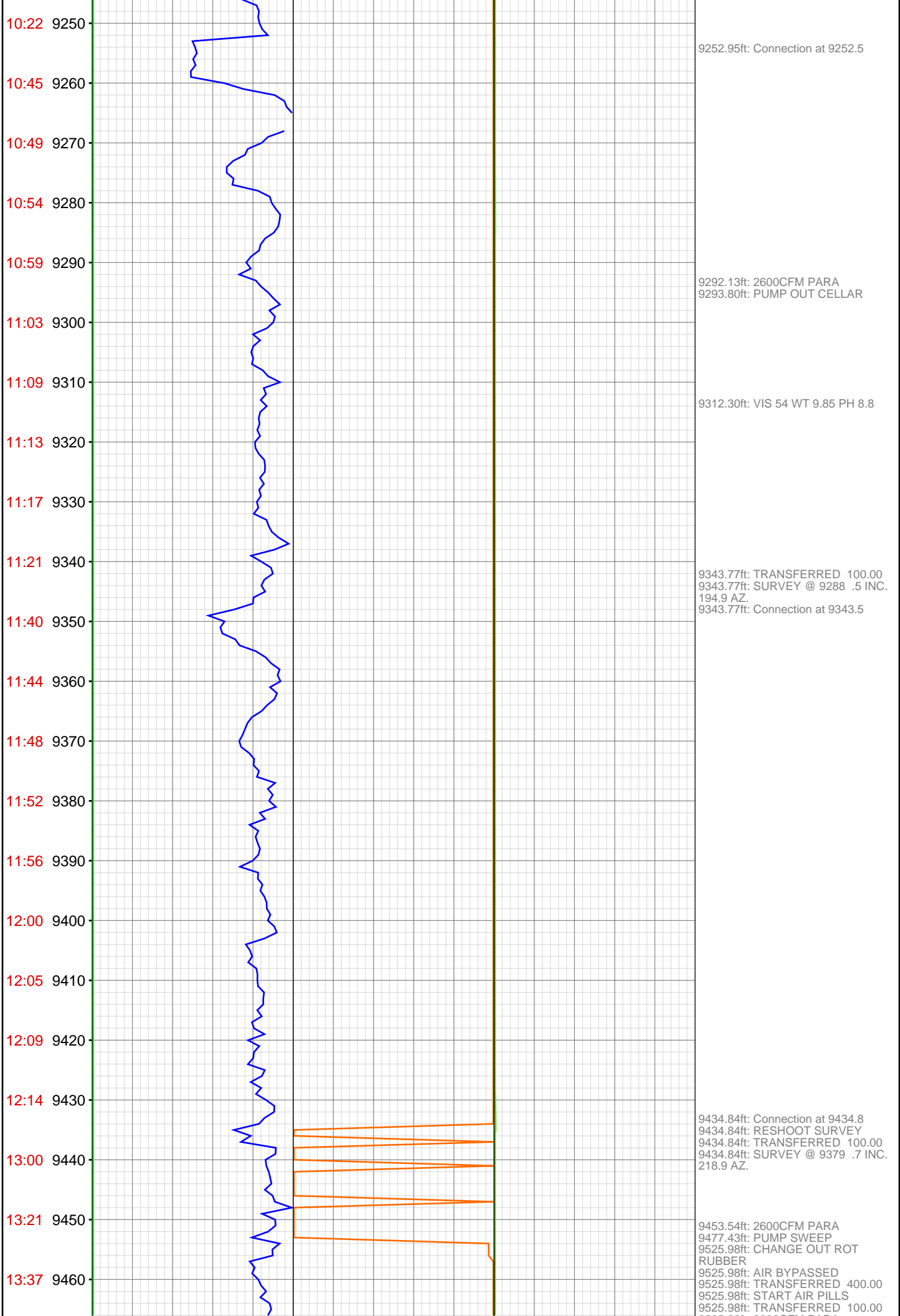
8155.32ft: SURVEY @ 8100' Inc. .7  
Az. 154.0  
8155.32ft: ZERO ALL PUMPS from  
SideKick sk-04-09-0961  
8155.32ft: Connection at 8155.6  
8155.32ft: ZWOB from SideKick  
sk-04-09-0961  
8155.32ft: PUMPED SWEEP  
8160.40ft: TRANSFER PREMIX  
T/ACTIVE  
  
8182.61ft: MUD VIS 54.00  
8183.69ft: MUD WEIGHT 9.55  
  
8188.71ft: MUD PH 9.30  
  
8230.97ft: DP CFM 1600 PARA CFM  
1800  
  
8246.39ft: SURVEY @ 8191' Inc. .4  
Az. 122.5  
8246.39ft: ZERO ALL PUMPS from  
SideKick sk-04-09-0961  
8246.39ft: Connection at 8247.0  
  
8258.01ft: DP CFM 1400 PARA CFM  
1800  
  
8337.47ft: SURVEY @ 8283' Inc. .6  
Az. 151.0  
8337.47ft: ZERO ALL PUMPS from  
SideKick sk-04-09-0961  
8337.47ft: Connection at 8338.4  
8337.47ft: PUMPED SWEEP  
8343.64ft: MUD VIS 51.00  
8343.64ft: MUD WEIGHT 9.60  
8343.64ft: MUD PH 9.20  
  
8363.09ft: DP CFM 1200 PARA CFM  
4900

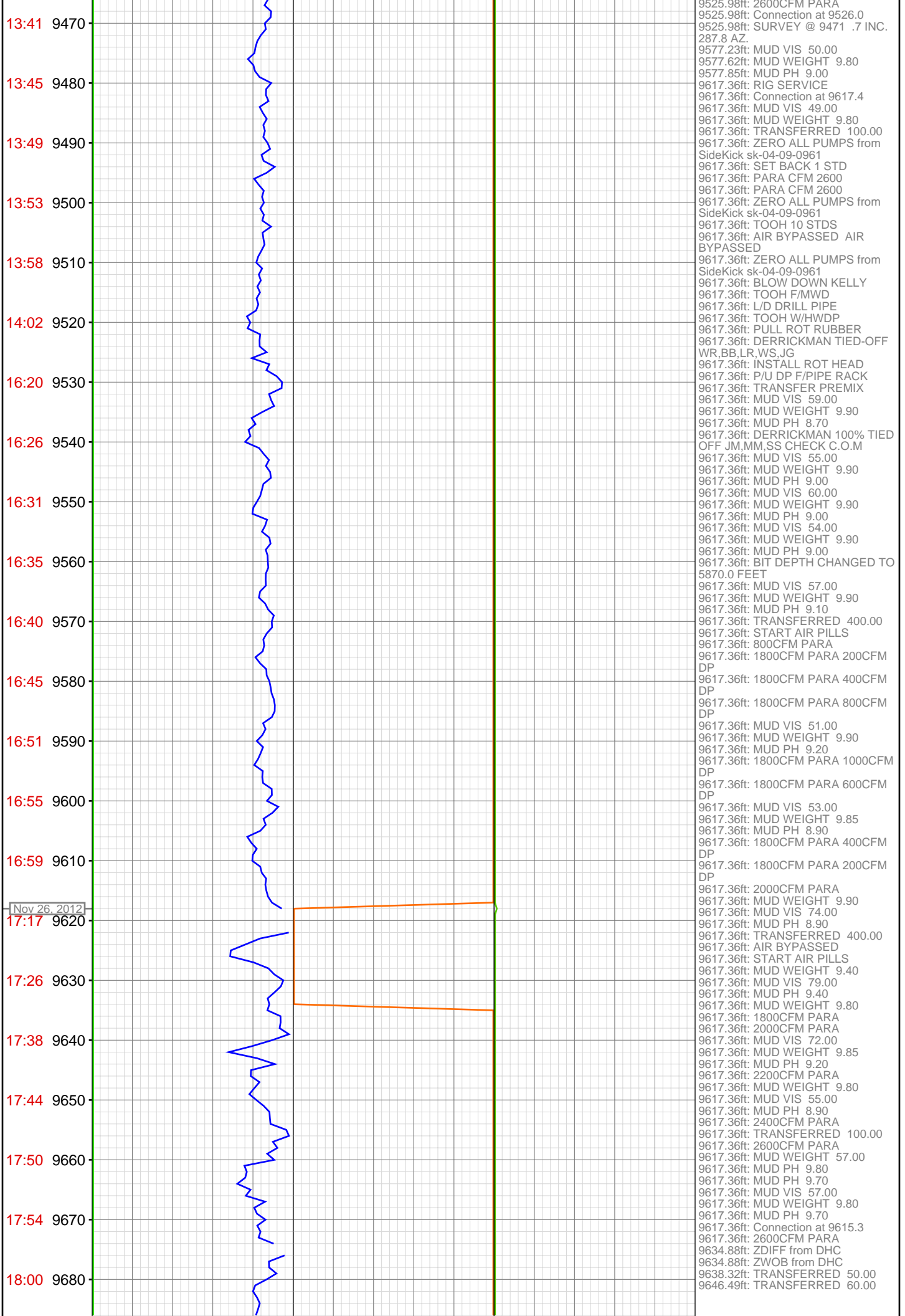


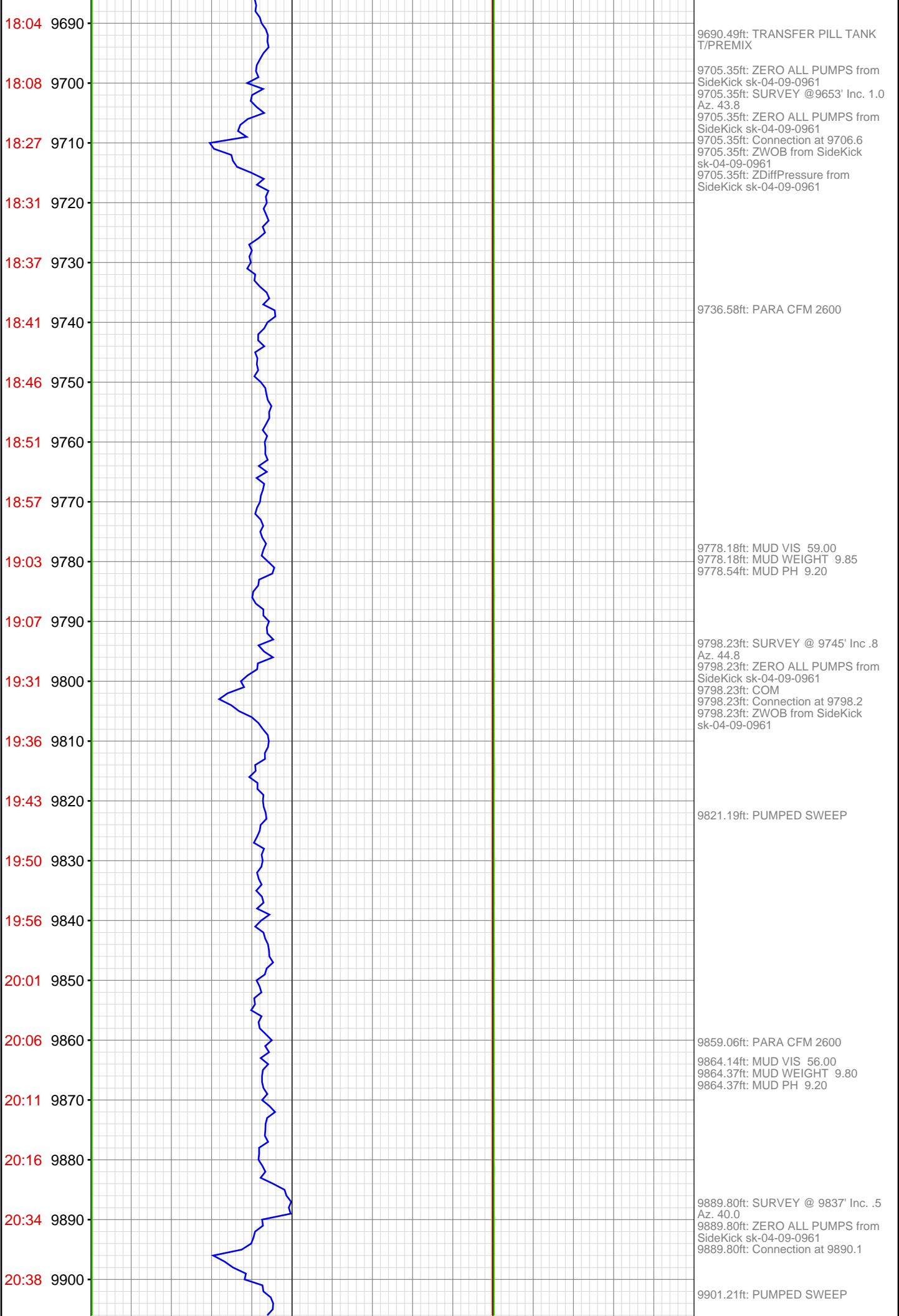














20:42 9910  
20:47 9920  
20:52 9930  
20:57 9940  
21:01 9950  
21:07 9960  
21:12 9970  
21:17 9980  
21:47 9990  
21:59 10000  
22:08 10010  
22:16 10020  
22:22 10030  
22:26 10040  
22:32 10050  
22:37 10060  
22:42 10070  
23:04 10080  
23:09 10090  
23:13 10100  
23:18 10110  
23:23 10120

9953.54ft: PARA CFM 2600

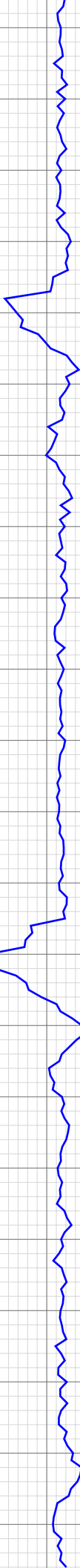
9978.48ft: MUD VIS 70.00  
9978.48ft: MUD WEIGHT 9.90  
9978.48ft: MUD PH 9.10  
9982.19ft: ZERO ALL PUMPS from  
SideKick sk-04-09-0961  
9982.19ft: Connection at 9980.8  
9982.19ft: SLIDING SURVEY @  
9925' Inc. .7 Az. 308.6

10011.78ft: PUMPED SWEEP

10043.64ft: MUD VIS 60.00  
10043.87ft: MUD WEIGHT 10.00  
10043.87ft: MUD PH 9.50

10073.49ft: ZERO ALL PUMPS from  
SideKick sk-04-09-0961  
10073.49ft: Connection at 10072.5  
10073.49ft: SURVEY @ 10017' Inc.  
1.4 Az. 38.2  
10073.49ft: PARA CFM 2600  
10073.49ft: ZWOB from SideKick  
sk-04-09-0961  
10073.49ft: PUMPED SWEEP

23:28 10130  
23:33 10140  
23:37 10150  
23:42 10160  
Nov 27, 2012  
00:01 10170  
00:06 10180  
00:11 10190  
00:17 10200  
00:22 10210  
00:27 10220  
00:33 10230  
00:38 10240  
00:42 10250  
01:02 10260  
01:07 10270  
01:14 10280  
01:19 10290  
01:25 10300  
01:30 10310  
01:35 10320  
01:42 10330  
01:46 10340



10149.15ft: MUD VIS 60.00  
10149.64ft: MUD WEIGHT 10.00  
10149.64ft: MUD PH 9.40

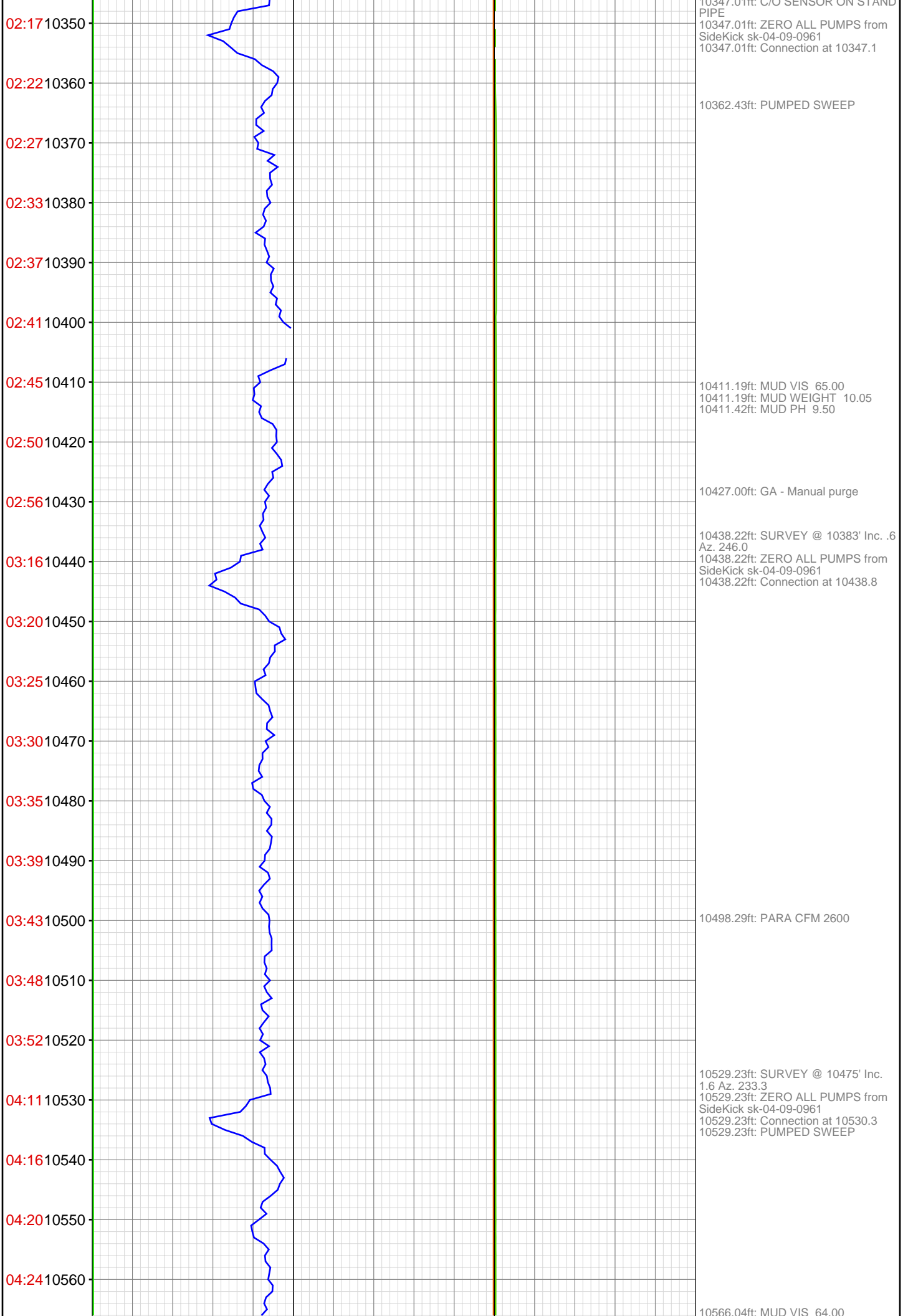
10164.70ft: SURVEY @ 10109' Inc. .9  
Az. 79.2  
10164.70ft: ZERO ALL PUMPS from  
SideKick sk-04-09-0961  
10164.70ft: Connection at 10164.1  
10164.70ft: ZWOB from SideKick  
sk-04-09-0961  
10164.70ft: PUMPED SWEEP

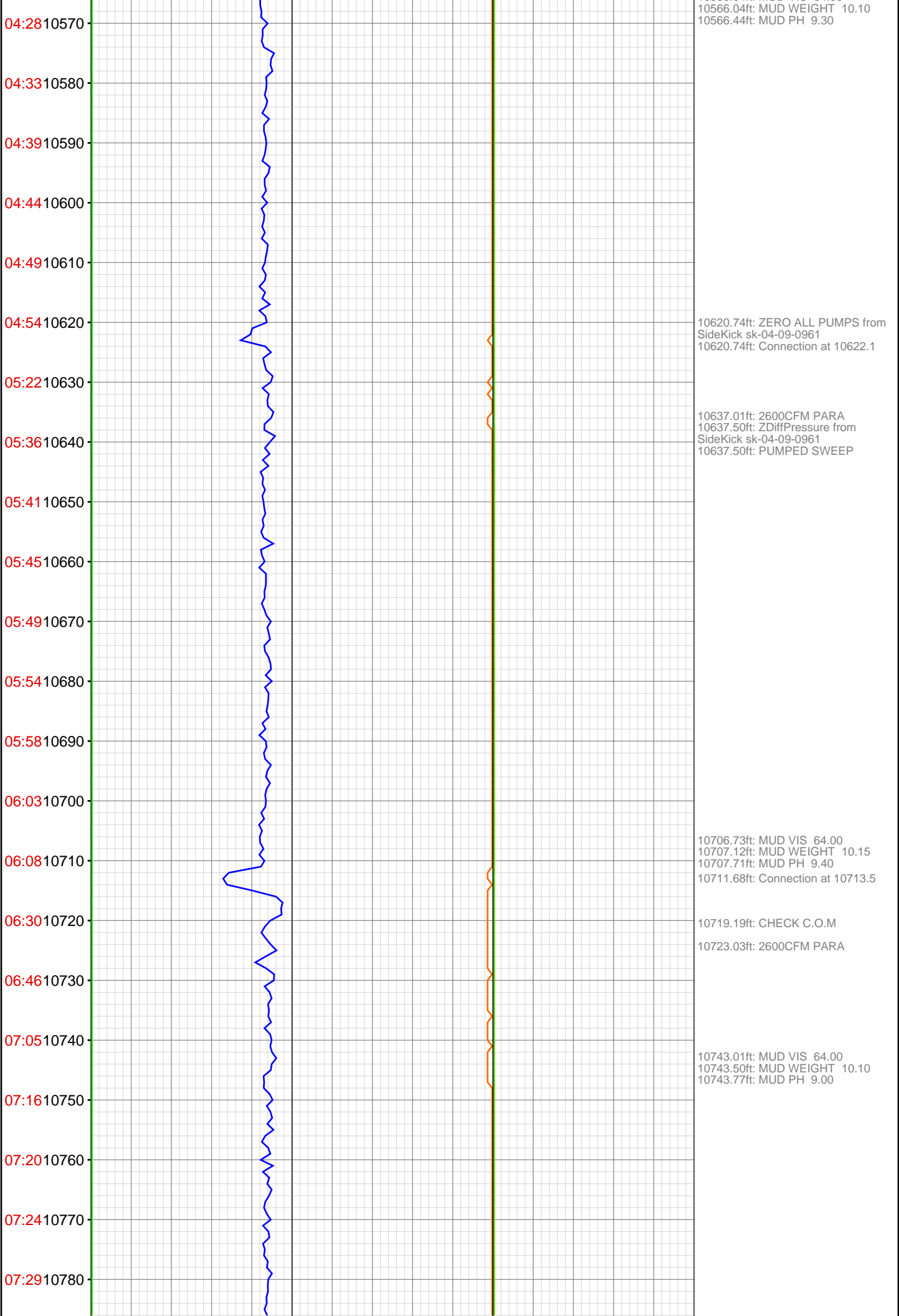
10191.27ft: PARA CFM 2600

10255.71ft: SURVEY @ 10200' Inc. .5  
Az. 4.3  
10255.71ft: ZERO ALL PUMPS from  
SideKick sk-04-09-0961  
10255.71ft: Connection at 10255.5  
PUMPED SWEEP

10269.52ft: MUD VIS 71.00  
10269.52ft: MUD WEIGHT 10.00  
10269.52ft: MUD PH 9.30

10347.01ft: SURVEY @ 10292' Inc. .7  
Az. 196.5  
10255.71ft: C/O SENSOR ON STAND





07:34 10790  
07:38 10800  
08:05 10810  
08:19 10820  
08:24 10830  
08:28 10840  
08:33 10850  
08:37 10860  
08:42 10870  
08:46 10880  
08:51 10890  
09:11 10900  
09:18 10910  
09:25 10920  
09:31 10930  
09:36 10940  
09:40 10950  
09:45 10960  
10:20 10970  
10:26 10980  
10:31 10990  
10:36 11000



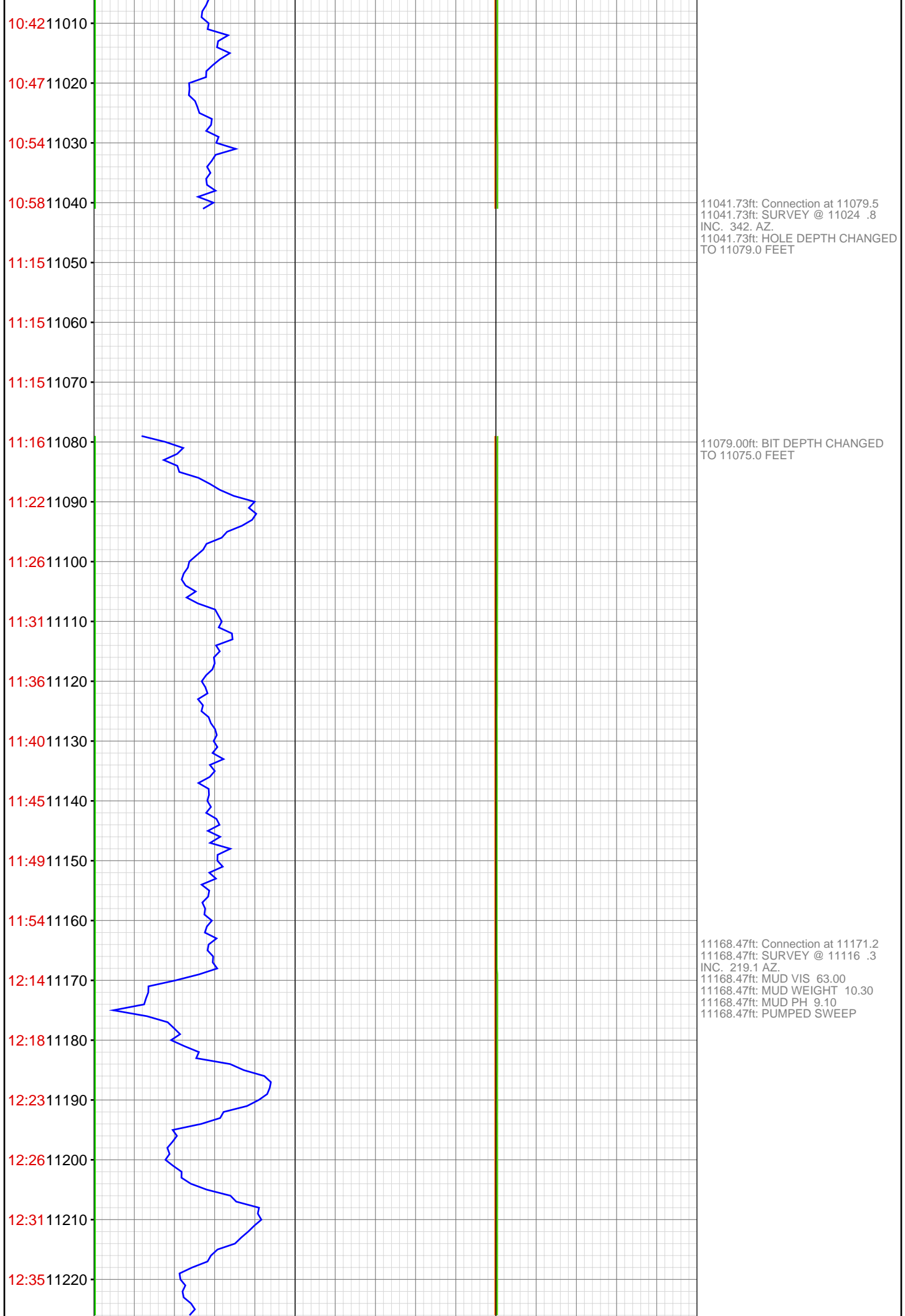
10802.26ft: Connection at 10804.4  
10802.26ft: 2300CFM PARA  
SURVEY 10749 INC .2 AZ 125.2

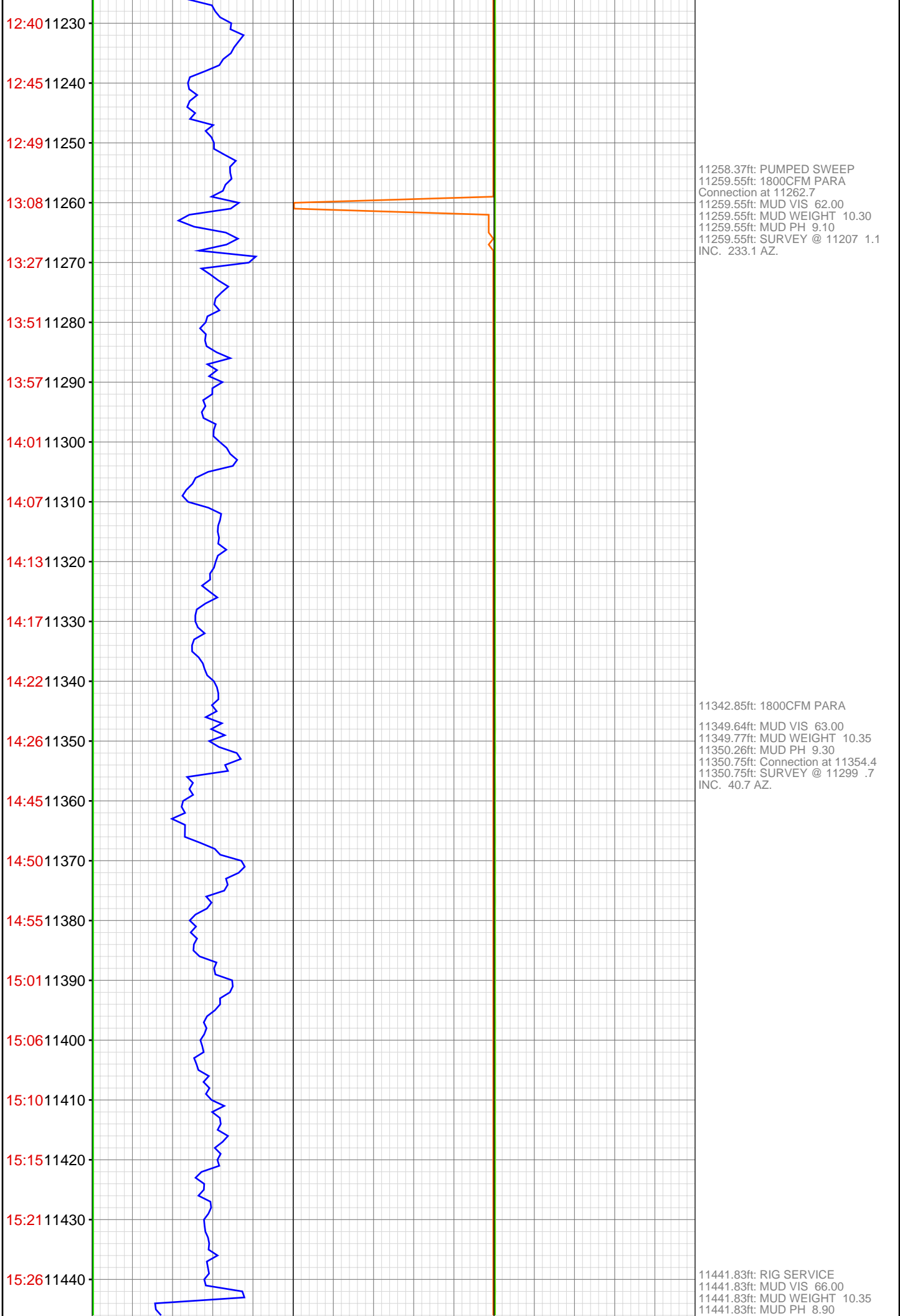
10893.57ft: TRANSFERRED 400.00  
10893.57ft: Connection at 10896.1  
10893.57ft: SURVEY @ 10841 1.5  
INC. 19.6 AZ.  
10893.57ft: 2000CFM PARA  
10896.79ft: MUD VIS 57.00  
10897.01ft: MUD WEIGHT 10.15  
10898.00ft: MUD PH 9.00

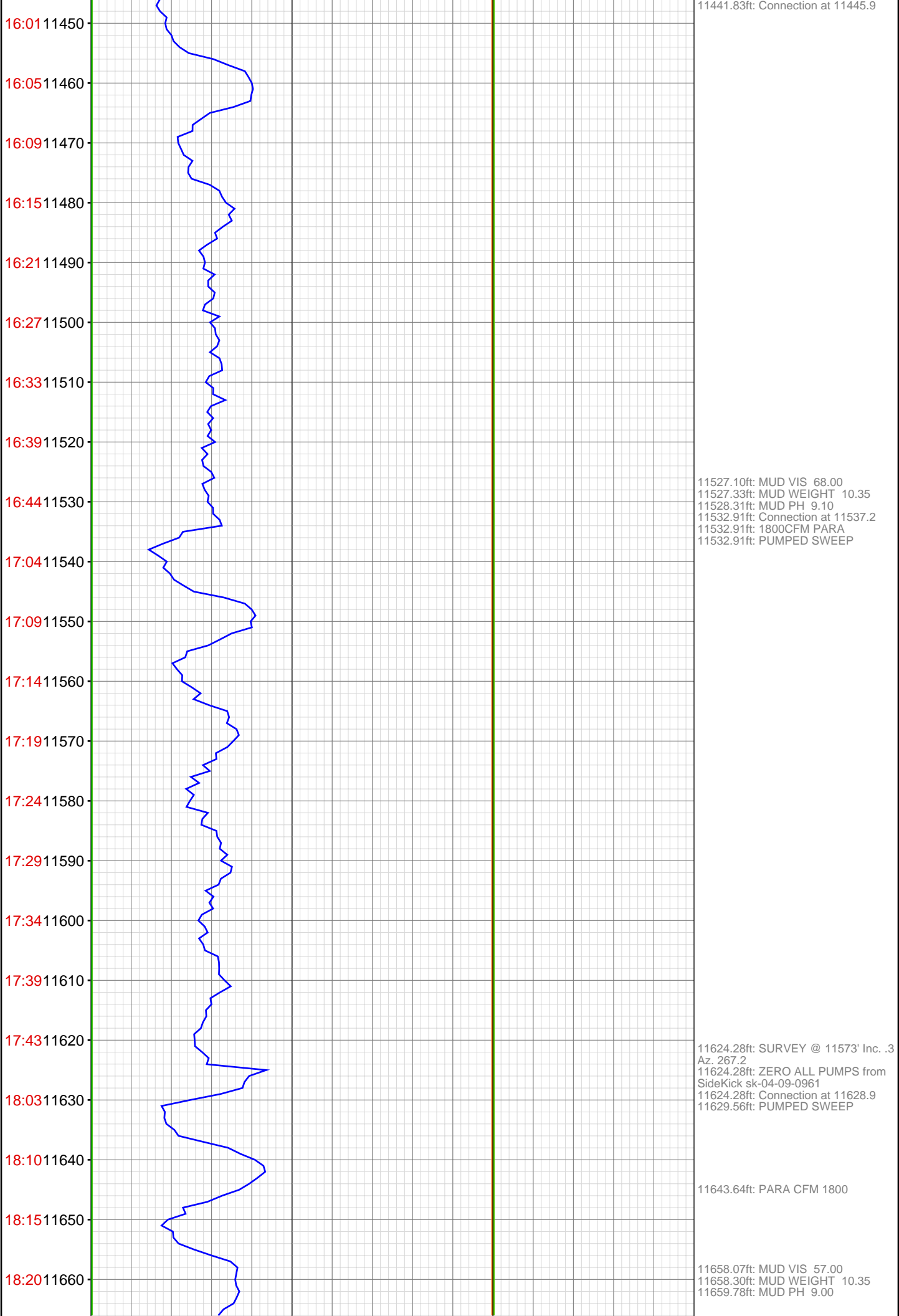
10907.45ft: PUMPED SWEEP

10960.20ft: SURVEY @ 10932 1.1  
INC. 29 AZ.  
10965.22ft: 1800CFM PARA

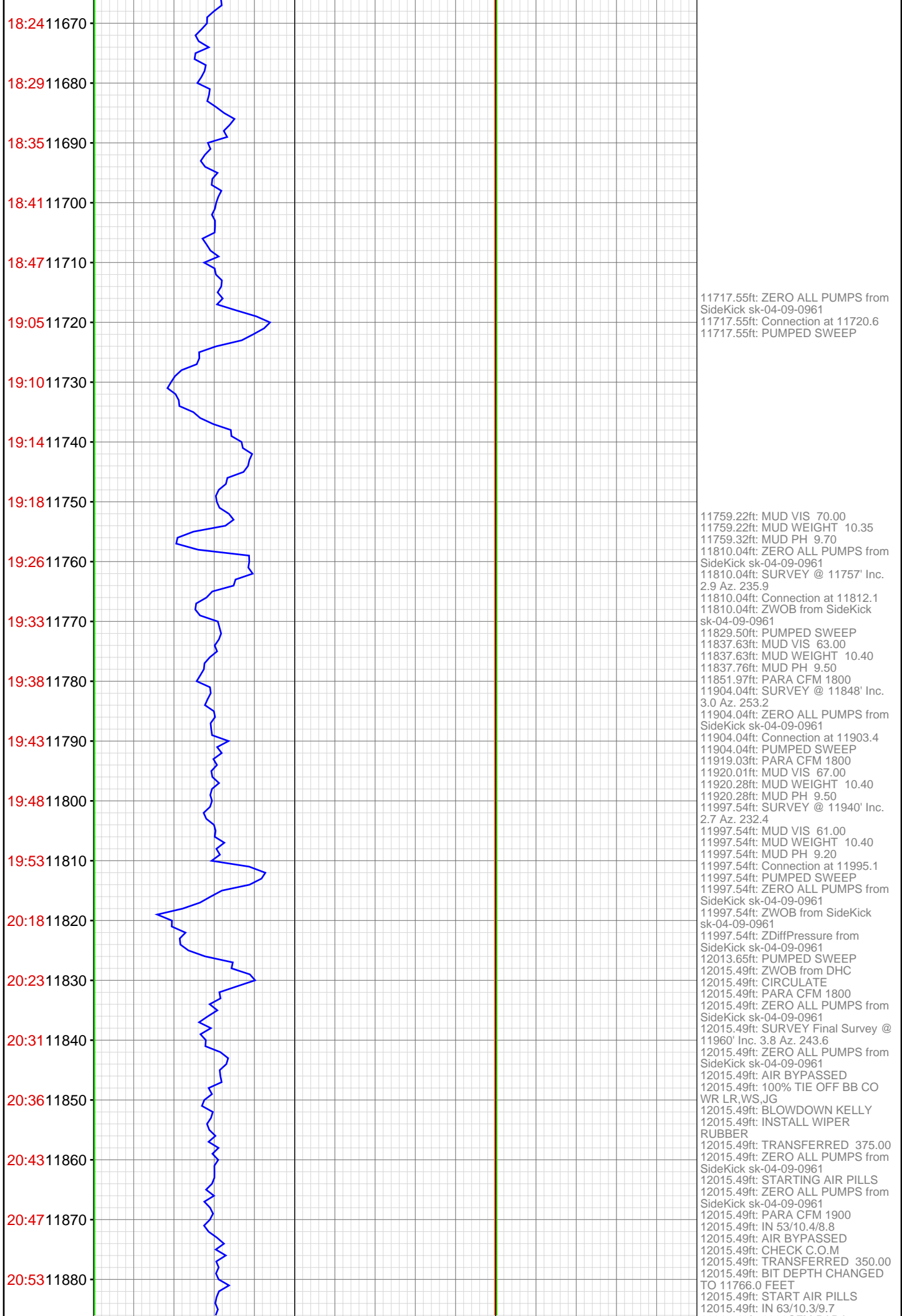
10988.42ft: MUD VIS 56.00  
10989.27ft: MUD WEIGHT 10.15

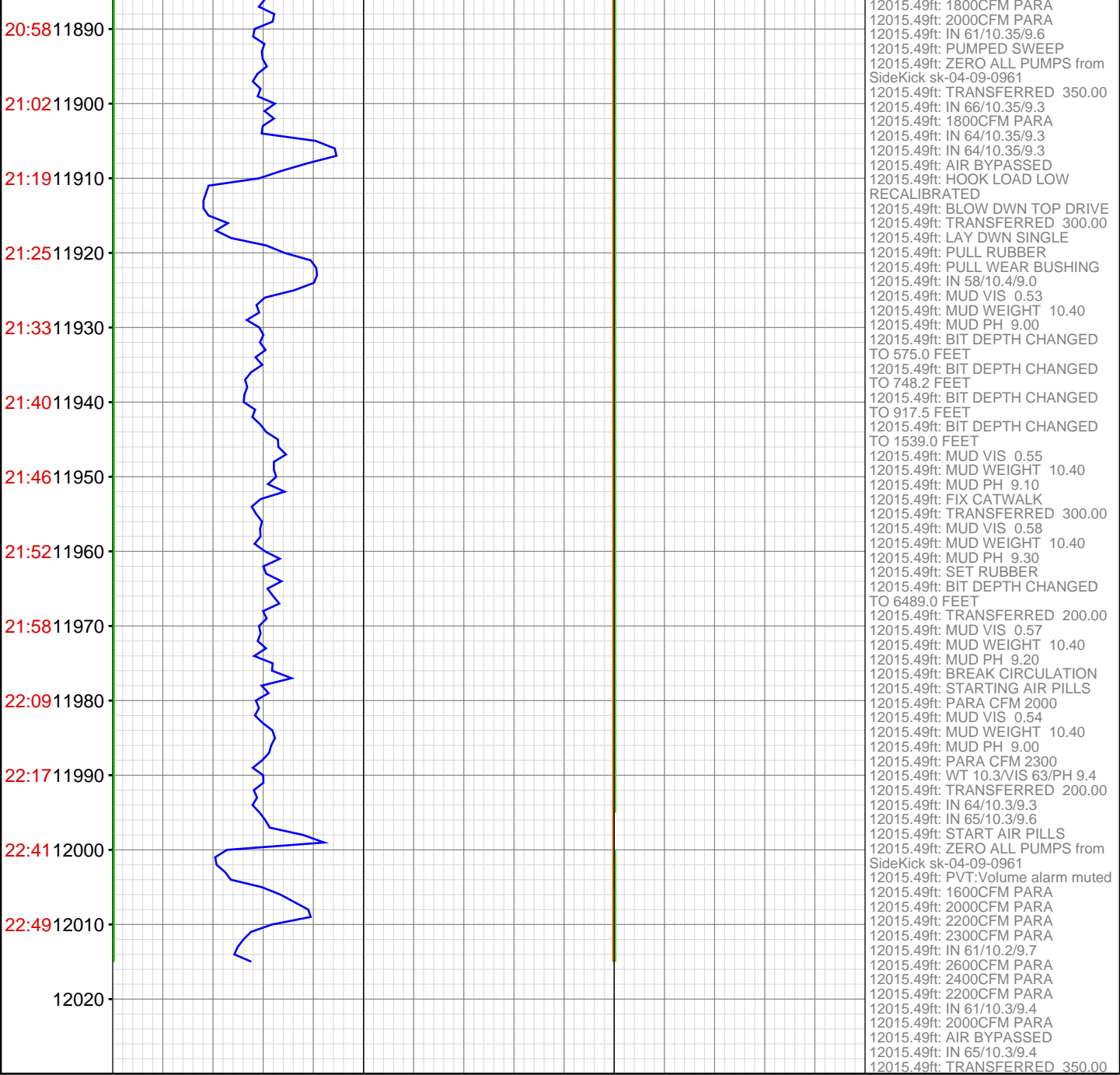












12015.49ft: 1800CFM PARA  
12015.49ft: 2000CFM PARA  
12015.49ft: IN 61/10.35/9.6  
12015.49ft: PUMPED SWEEP  
12015.49ft: ZERO ALL PUMPS from  
SideKick sk-04-09-0961  
12015.49ft: TRANSFERRED 350.00  
12015.49ft: IN 66/10.35/9.3  
12015.49ft: 1800CFM PARA  
12015.49ft: IN 64/10.35/9.3  
12015.49ft: IN 64/10.35/9.3  
12015.49ft: AIR BYPASSED  
12015.49ft: HOOK LOAD LOW  
RECALIBRATED  
12015.49ft: BLOW DWN TOP DRIVE  
12015.49ft: TRANSFERRED 300.00  
12015.49ft: LAY DWN SINGLE  
12015.49ft: PULL RUBBER  
12015.49ft: PULL WEAR BUSHING  
12015.49ft: IN 58/10.4/9.0  
12015.49ft: MUD VIS 0.53  
12015.49ft: MUD WEIGHT 10.40  
12015.49ft: MUD PH 9.00  
12015.49ft: BIT DEPTH CHANGED  
TO 575.0 FEET  
12015.49ft: BIT DEPTH CHANGED  
TO 748.2 FEET  
12015.49ft: BIT DEPTH CHANGED  
TO 917.5 FEET  
12015.49ft: BIT DEPTH CHANGED  
TO 1539.0 FEET  
12015.49ft: MUD VIS 0.55  
12015.49ft: MUD WEIGHT 10.40  
12015.49ft: MUD PH 9.10  
12015.49ft: FIX CATWALK  
12015.49ft: TRANSFERRED 300.00  
12015.49ft: MUD VIS 0.58  
12015.49ft: MUD WEIGHT 10.40  
12015.49ft: MUD PH 9.30  
12015.49ft: SET RUBBER  
12015.49ft: BIT DEPTH CHANGED  
TO 6489.0 FEET  
12015.49ft: TRANSFERRED 200.00  
12015.49ft: MUD VIS 0.57  
12015.49ft: MUD WEIGHT 10.40  
12015.49ft: MUD PH 9.20  
12015.49ft: BREAK CIRCULATION  
12015.49ft: STARTING AIR PILLS  
12015.49ft: PARA CFM 2000  
12015.49ft: MUD VIS 0.54  
12015.49ft: MUD WEIGHT 10.40  
12015.49ft: MUD PH 9.00  
12015.49ft: PARA CFM 2300  
12015.49ft: WT 10.3/VIS 63/PH 9.4  
12015.49ft: TRANSFERRED 200.00  
12015.49ft: IN 64/10.3/9.3  
12015.49ft: IN 65/10.3/9.6  
12015.49ft: START AIR PILLS  
12015.49ft: ZERO ALL PUMPS from  
SideKick sk-04-09-0961  
12015.49ft: PVT:Volume alarm muted  
12015.49ft: 1600CFM PARA  
12015.49ft: 2000CFM PARA  
12015.49ft: 2200CFM PARA  
12015.49ft: 2300CFM PARA  
12015.49ft: IN 61/10.2/9.7  
12015.49ft: 2600CFM PARA  
12015.49ft: 2400CFM PARA  
12015.49ft: 2200CFM PARA  
12015.49ft: IN 61/10.3/9.4  
12015.49ft: 2000CFM PARA  
12015.49ft: AIR BYPASSED  
12015.49ft: IN 65/10.3/9.4  
12015.49ft: TRANSFERRED 350.00