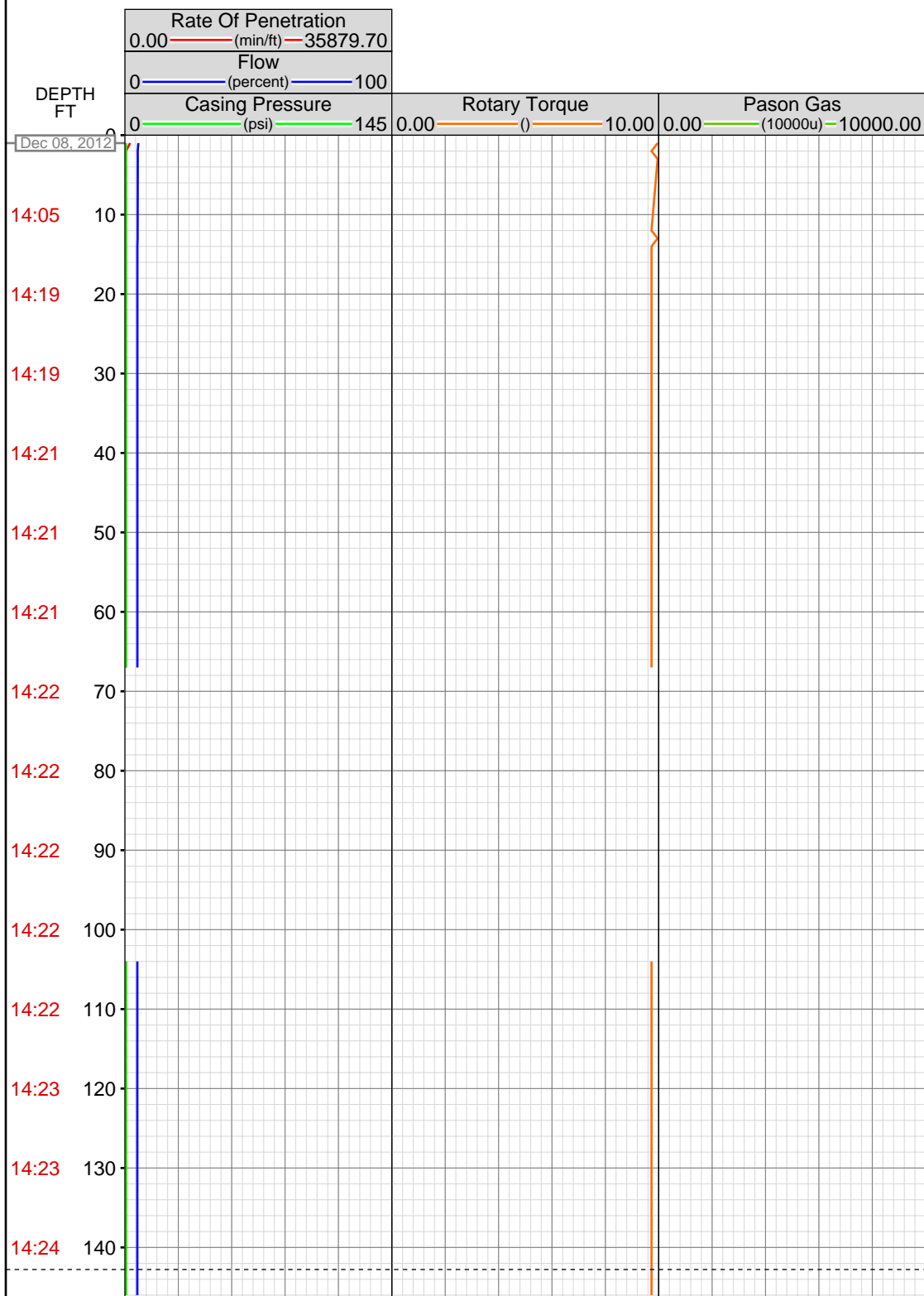


# DataHub EDR Log

Thu Dec 27, 2012 08:36:31  
Well Dossier 1354936516  
Marilyn Tucker

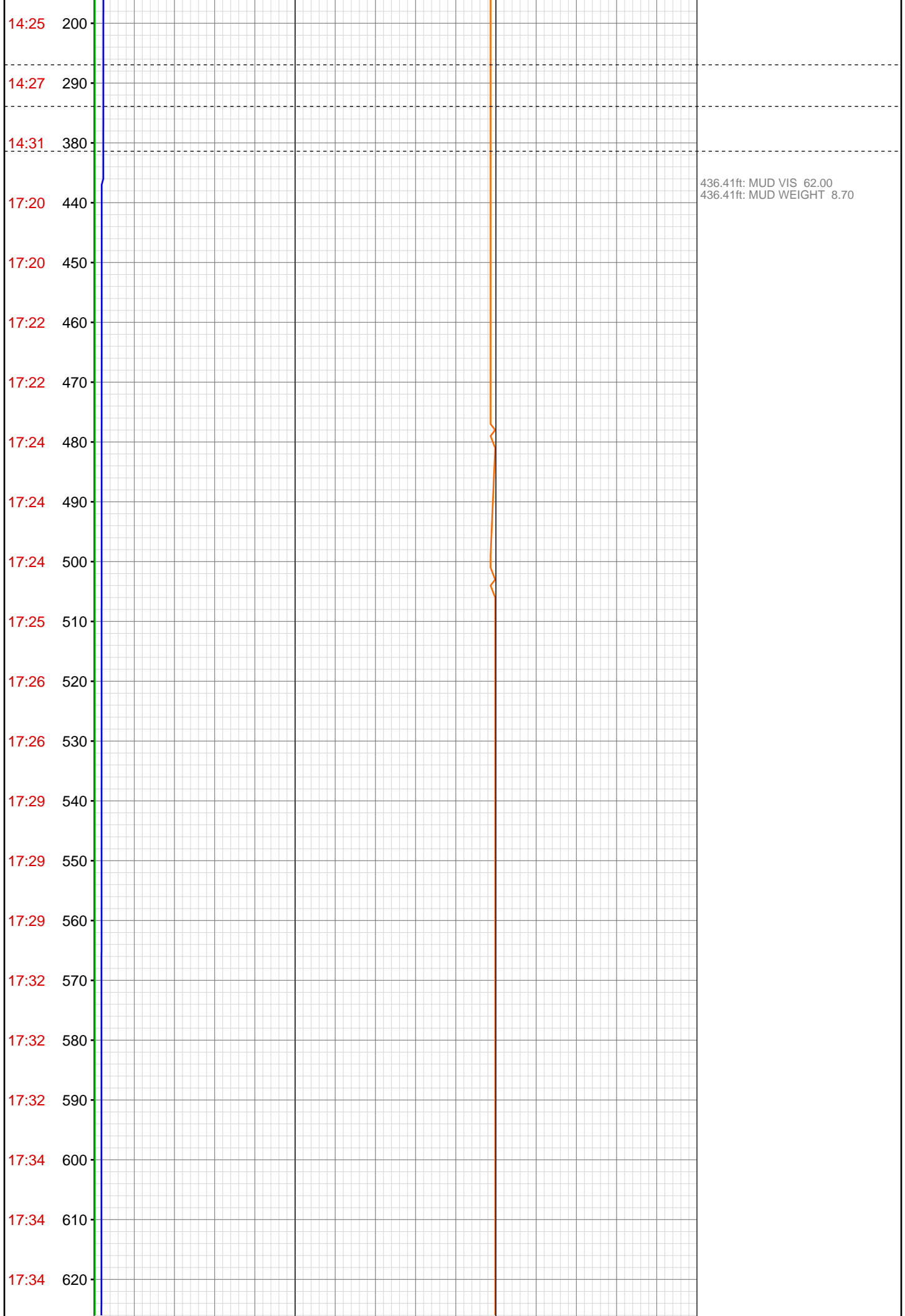
**OPERATOR:** EnCana Oil & Gas (USA), Inc.  
**WELL:** SG 8502A-35 D36 496  
**FIELD:**  
**LOCATION:**  
**COUNTRY:** USA  
**RIG:** Pat-UTI 326

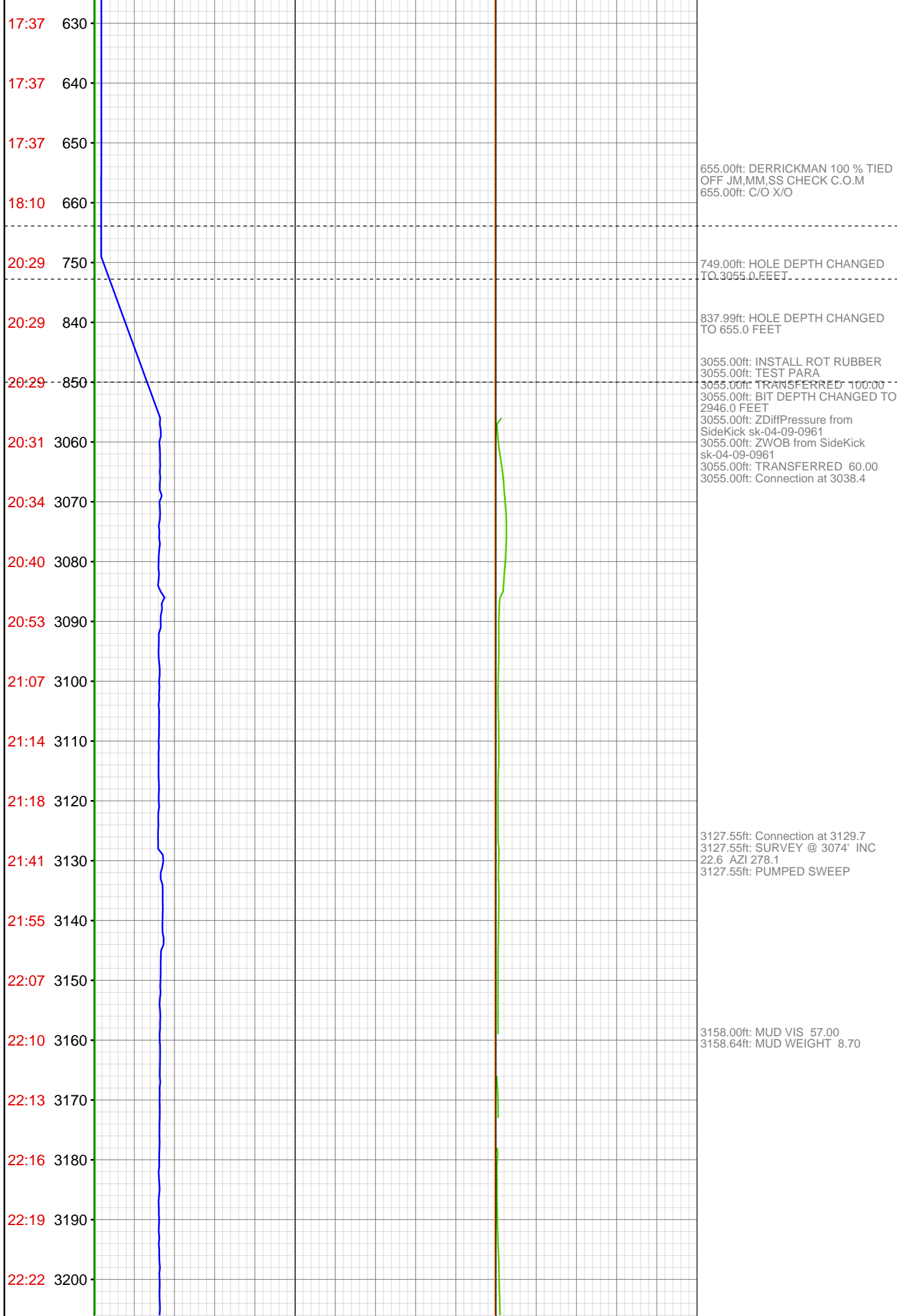
**CONTRACTOR:** Patterson-UTI Drilling Company  
**UNIQUE WELL ID:** 05-045-20927-00  
**SPUD DATE:** Dec 08, 2012 20:30  
**RELEASE DATE:** Dec 16, 2012 10:00

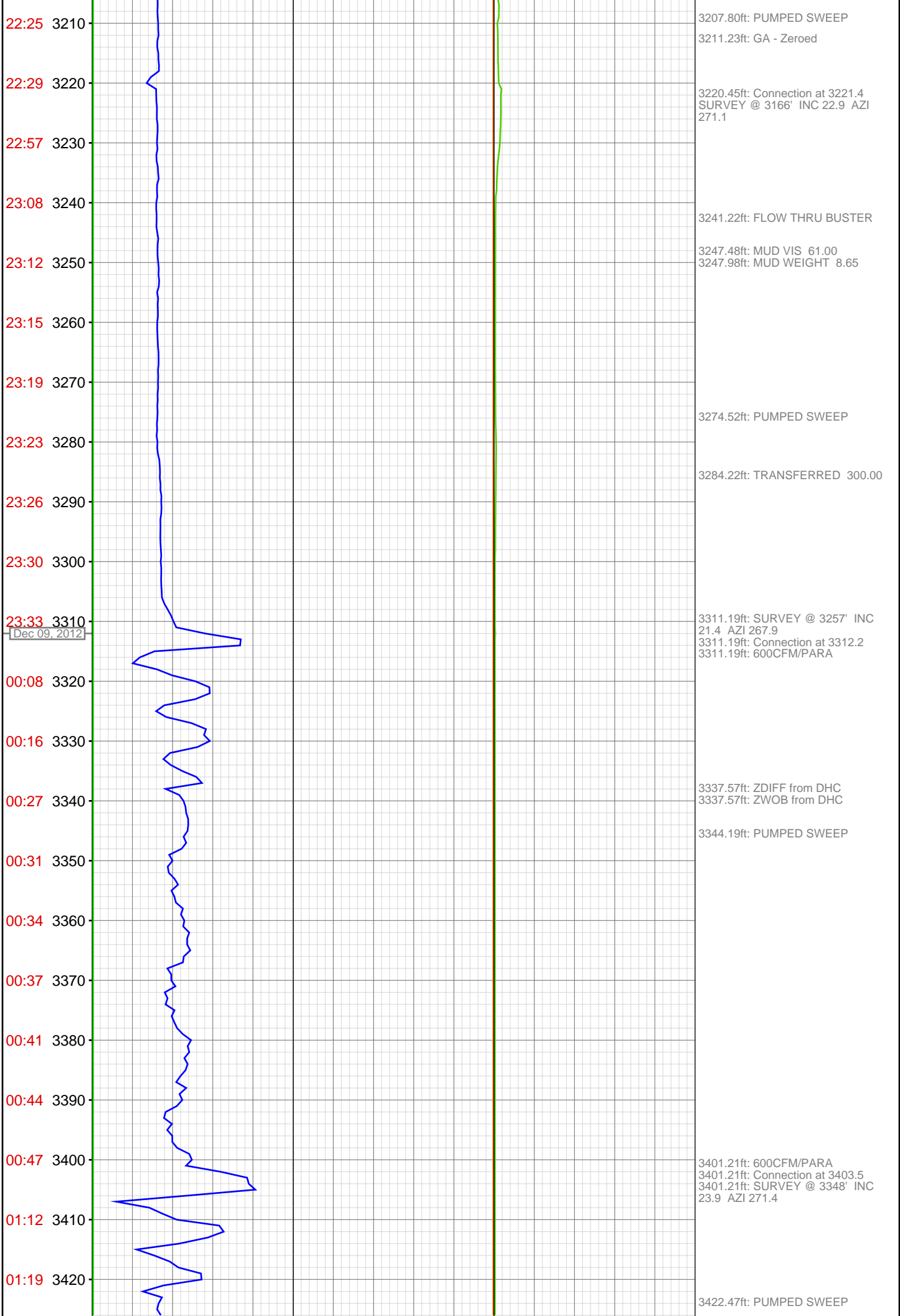


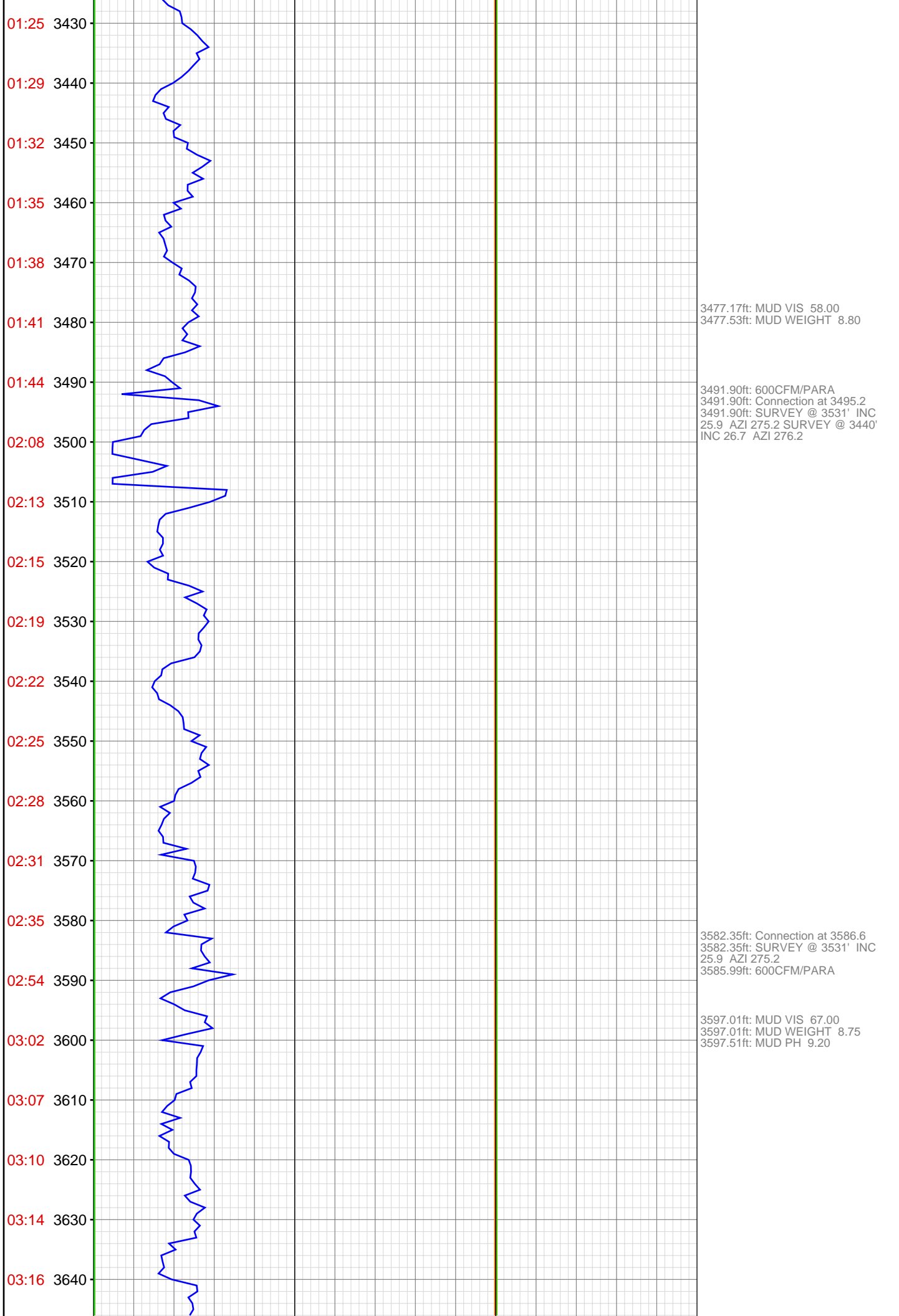
## MEMOS

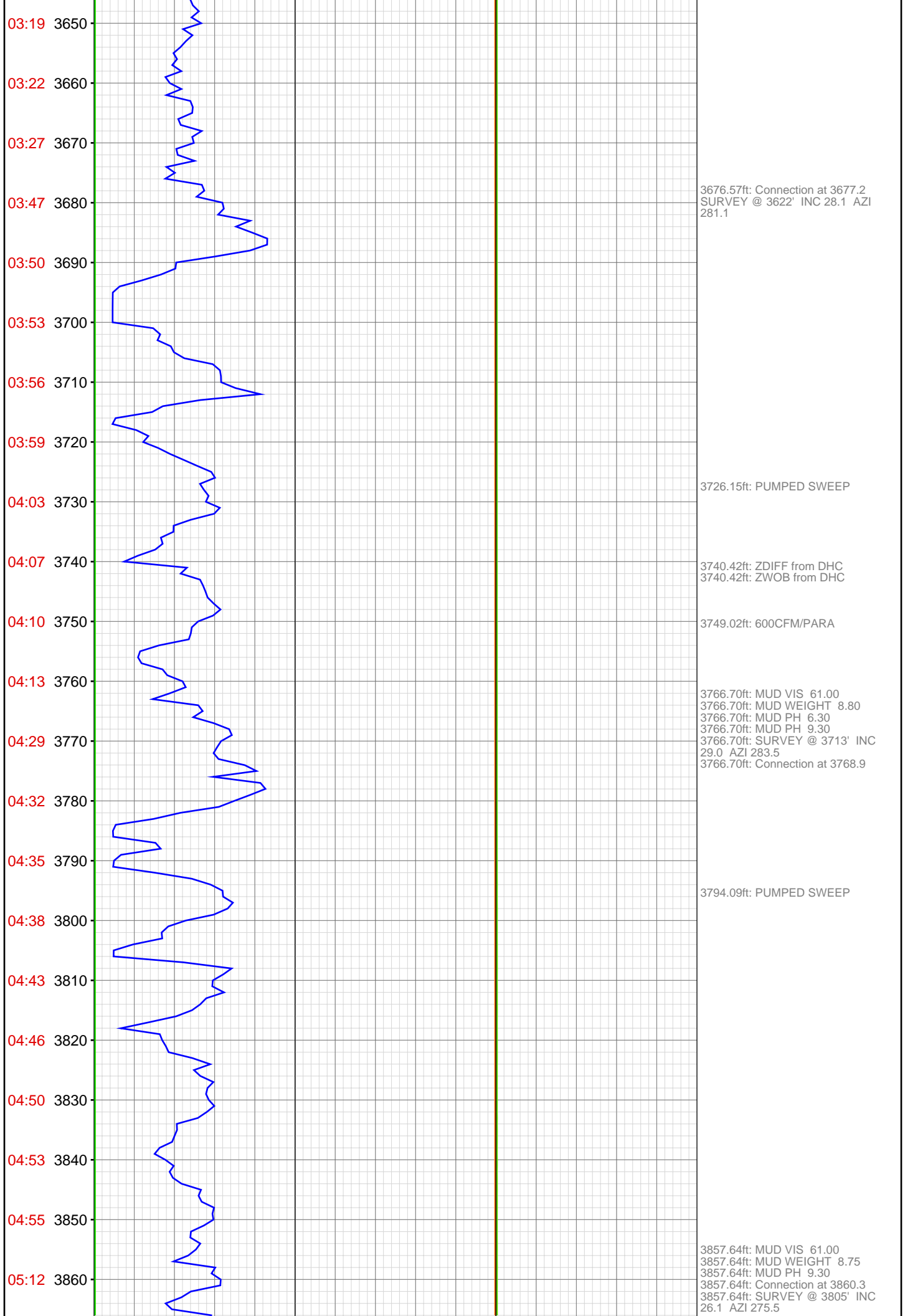
0.25ft: ZERO ALL PUMPS from  
SideKick sk-04-09-0961











05:23 3870  
05:30 3880  
05:33 3890  
05:35 3900  
05:38 3910  
05:41 3920  
05:44 3930  
05:47 3940  
06:03 3950  
06:08 3960  
06:17 3970  
06:21 3980  
06:24 3990  
06:26 4000  
06:28 4010  
06:31 4020  
06:34 4030  
06:36 4040  
06:54 4050  
07:01 4060  
07:05 4070  
07:08 4080



3948.46ft: 600 CFM PARA SURVEY  
3896 24.4 INC 277.1 AZ  
3948.46ft: ZERO ALL PUMPS from  
SideKick sk-04-09-0961  
3948.46ft: MUD VIS 57.00  
3948.46ft: MUD WEIGHT 8.90  
3948.46ft: MUD PH 9.40  
3948.46ft: Connection at 3951.8

3976.80ft: PUMPED SWEEP

4044.88ft: SURVEY 3988 23.5 INC  
276.7 AZ  
4044.88ft: ZERO ALL PUMPS from  
SideKick sk-04-09-0961  
4044.88ft: Connection at 4043.4

4075.36ft: PUMPED SWEEP

07:10 4090  
07:12 4100  
07:14 4110  
07:16 4120  
07:18 4130  
07:36 4140  
07:39 4150  
07:42 4160  
07:45 4170  
07:48 4180  
07:50 4190  
07:52 4200  
07:54 4210  
07:57 4220  
08:16 4230  
08:27 4240  
08:36 4250  
08:38 4260  
08:41 4270  
08:43 4280  
08:46 4290  
08:49 4300



4113.45ft: MUD VIS 56.00  
4113.45ft: MUD WEIGHT 8.90

4135.83ft: SURVEY 4079 27.1 INC  
288.4 AZ  
4135.83ft: ZWOB from SideKick  
sk-04-09-0961  
4135.83ft: ZERO ALL PUMPS from  
SideKick sk-04-09-0961  
4135.83ft: ZWOB from SideKick  
sk-04-09-0961  
4135.83ft: ZDiffPressure from  
SideKick sk-04-09-0961  
4137.89ft: Connection at 4134.4  
4138.65ft: PUMPED SWEEP

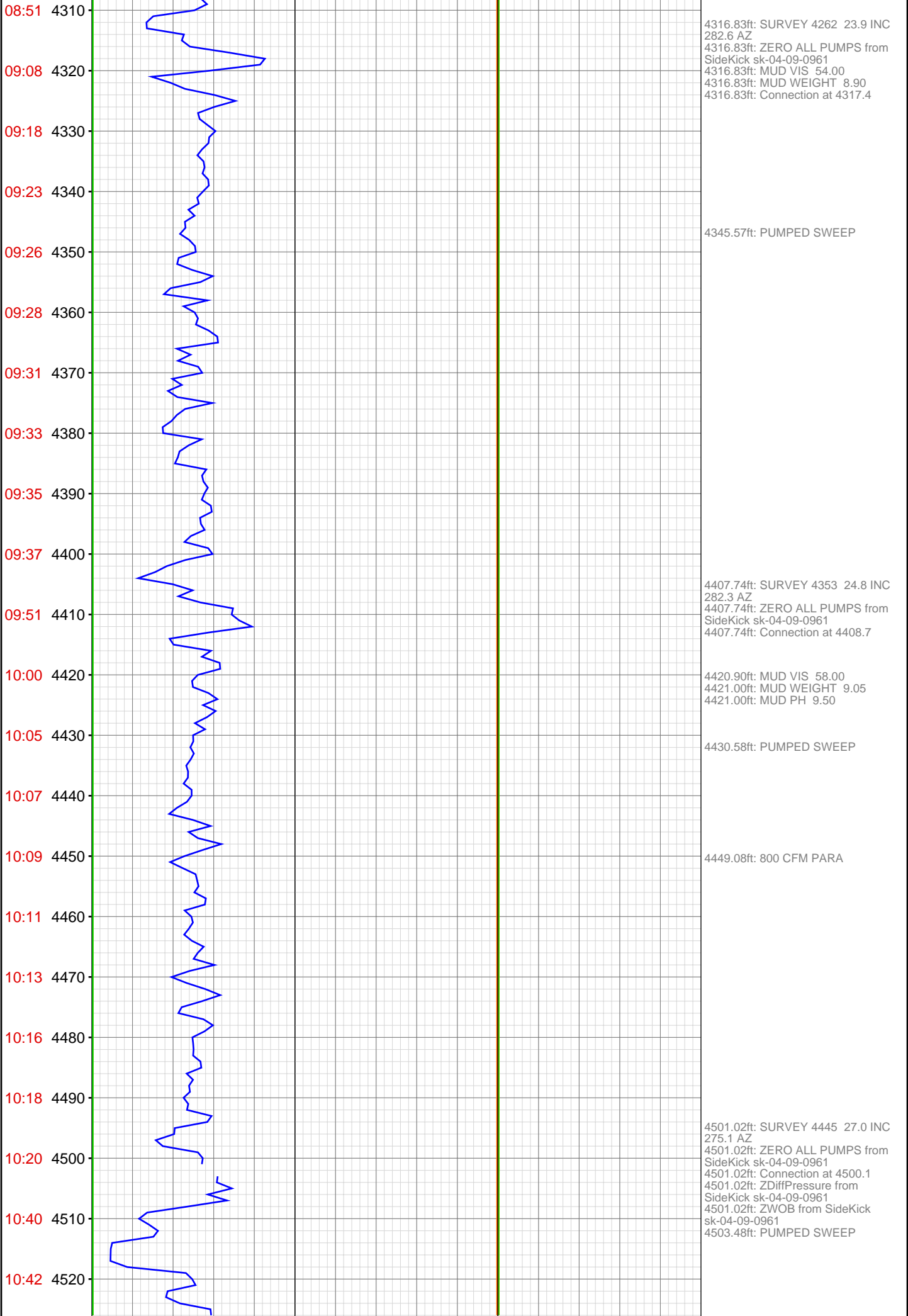
4192.59ft: 600 CFM PARA

4219.49ft: MUD VIS 59.00  
4220.01ft: MUD WEIGHT 9.00  
4226.12ft: SURVEY 4170 23.4 INC  
284.0 AZ  
4226.12ft: ZERO ALL PUMPS from  
SideKick sk-04-09-0961  
4226.12ft: Connection at 4225.9  
4226.12ft: ZDIFF from DHC

4239.14ft: 800 CFM PARA

4249.74ft: PUMPED SWEEP





10:45 4530  
10:48 4540  
10:50 4550  
10:52 4560  
10:54 4570  
10:57 4580  
10:59 4590  
11:21 4600  
11:27 4610  
11:29 4620  
11:31 4630  
11:34 4640  
11:36 4650  
11:39 4660  
11:41 4670  
11:43 4680  
11:59 4690  
12:07 4700  
12:10 4710  
12:12 4720  
12:15 4730  
12:17 4740



4579.00ft: 900 CFM PARA  
  
4591.21ft: SURVEY 4536 26.0 INC  
281.4 AZ  
4591.21ft: MUD VIS 62.00  
4591.21ft: MUD WEIGHT 9.05  
4591.21ft: MUD PH 9.30  
4591.21ft: ZERO ALL PUMPS from  
SideKick sk-04-09-0961  
4591.21ft: Connection at 4591.6

4682.02ft: SURVEY 4628 25.7 INC  
269.5 AZ  
4682.02ft: Connection at 4683.1  
4682.02ft: ZERO ALL PUMPS from  
SideKick sk-04-09-0961  
4683.10ft: PUMPED SWEEP

4696.52ft: ZDiffPressure from  
SideKick sk-04-09-0961  
4696.52ft: ZDiffPressure from  
SideKick sk-04-09-0961

12:19 4750  
12:21 4760  
12:23 4770  
12:43 4780  
12:50 4790  
12:53 4800  
12:55 4810  
12:58 4820  
13:01 4830  
13:03 4840  
13:05 4850  
13:07 4860  
13:21 4870  
13:32 4880  
13:40 4890  
13:41 4900  
13:43 4910  
13:45 4920  
13:48 4930  
13:51 4940  
13:53 4950  
23:10 4960



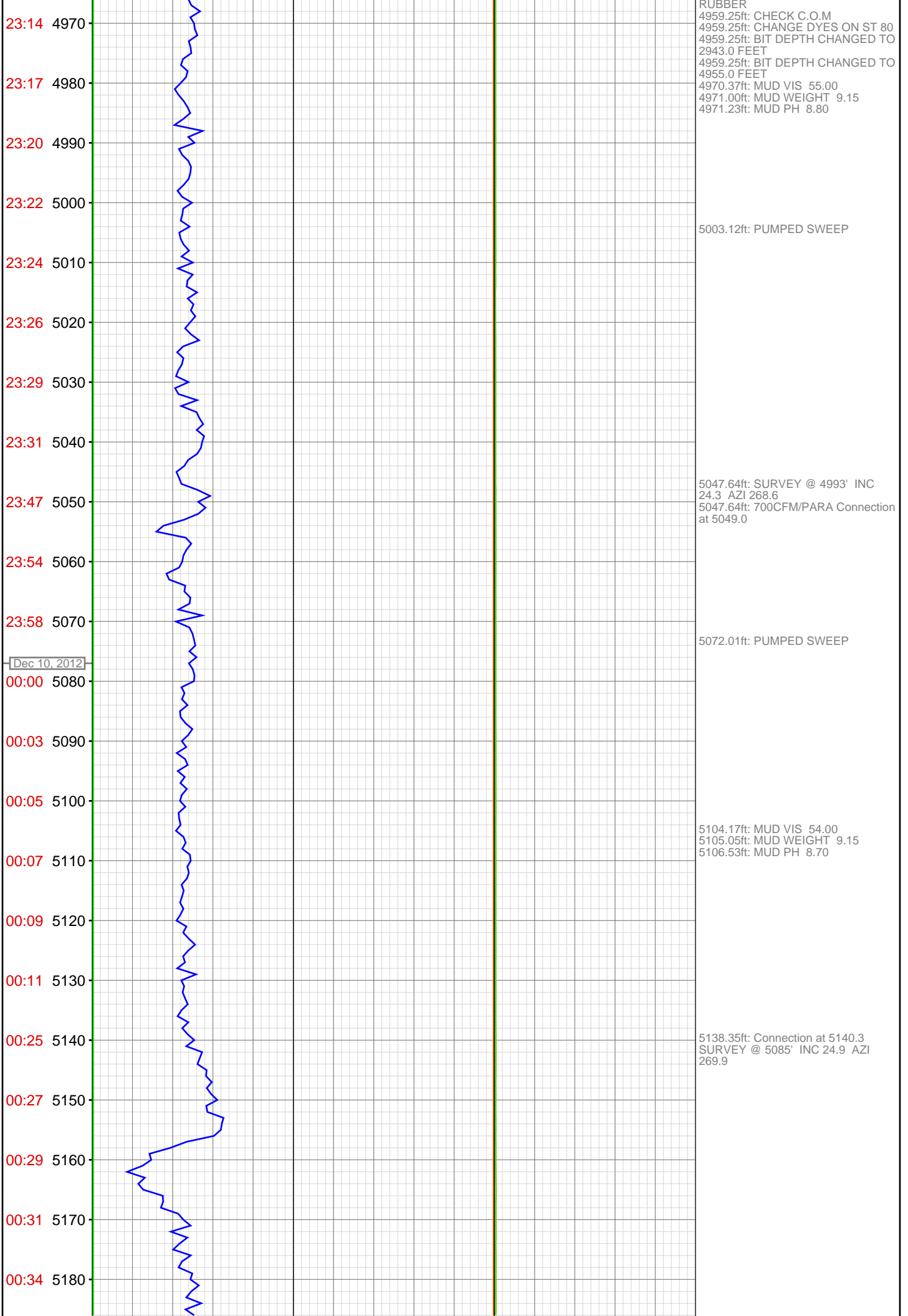
4772.31ft: MUD VIS 57.00  
4772.44ft: MUD WEIGHT 9.10  
4772.44ft: MUD PH 9.20  
4772.44ft: SURVEY 4719 28.4 INC  
278.6 AZ  
4772.44ft: ZERO ALL PUMPS from  
SideKick sk-04-09-0961  
4772.44ft: Connection at 4774.9

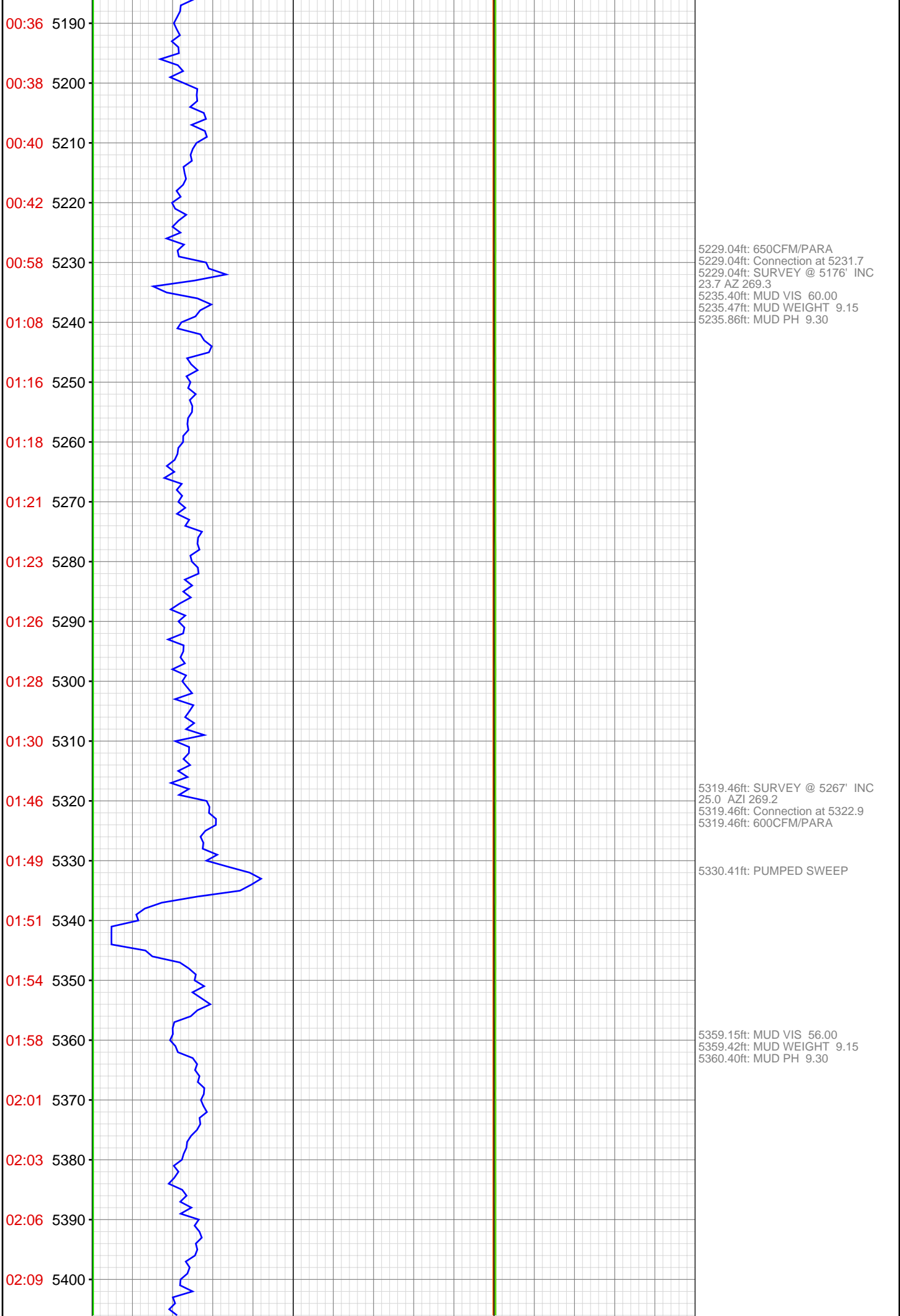
4811.58ft: PUMPED SWEEP

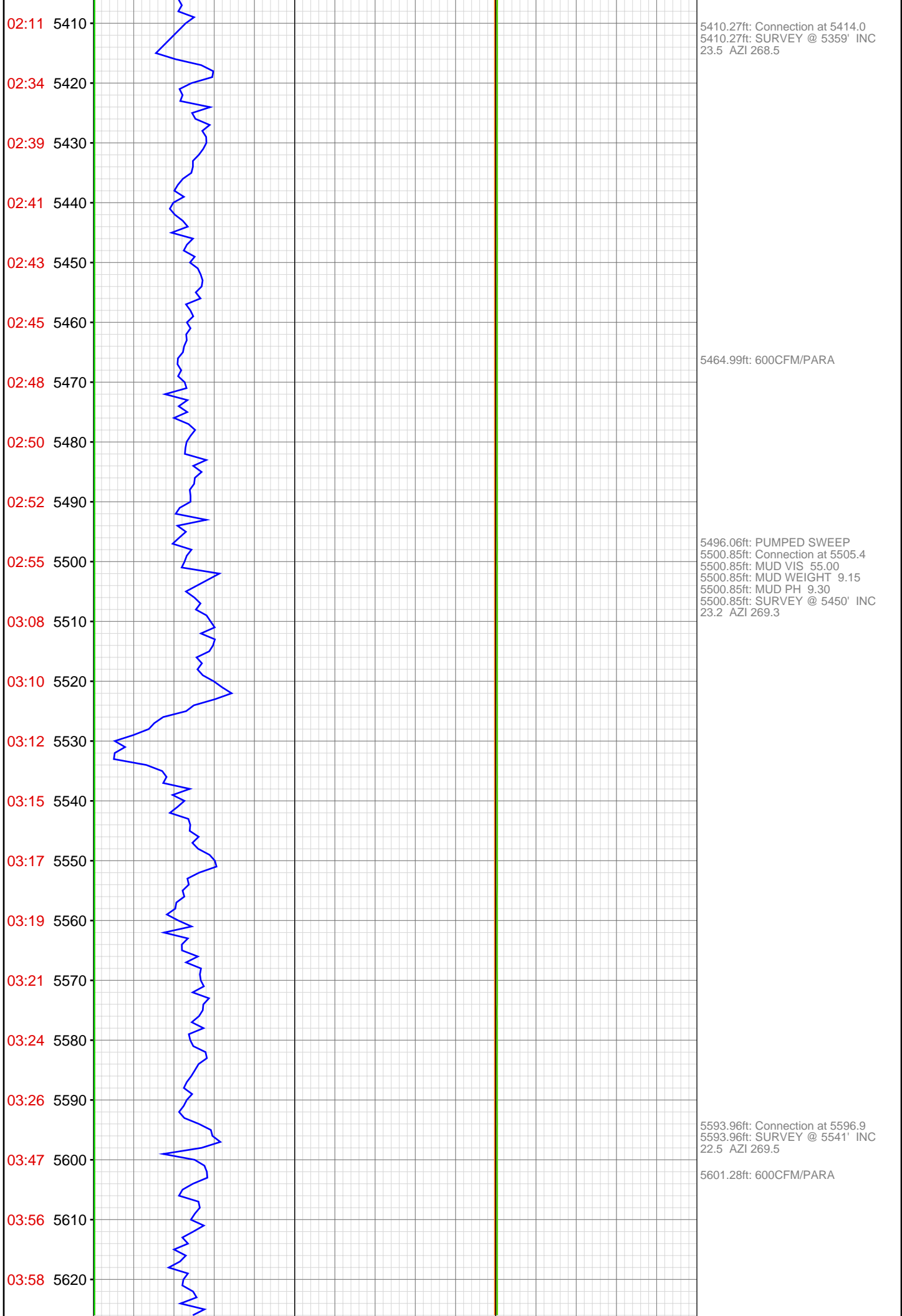
4865.65ft: 900 CFM PARA  
4865.65ft: SURVEY 4811 22.6 INC  
264.6 AZ  
4865.65ft: MUD VIS 56.00  
4865.65ft: MUD WEIGHT 9.15  
4865.65ft: MUD PH 9.20  
4865.65ft: ZERO ALL PUMPS from  
SideKick sk-04-09-0961  
4865.65ft: Connection at 4866.2

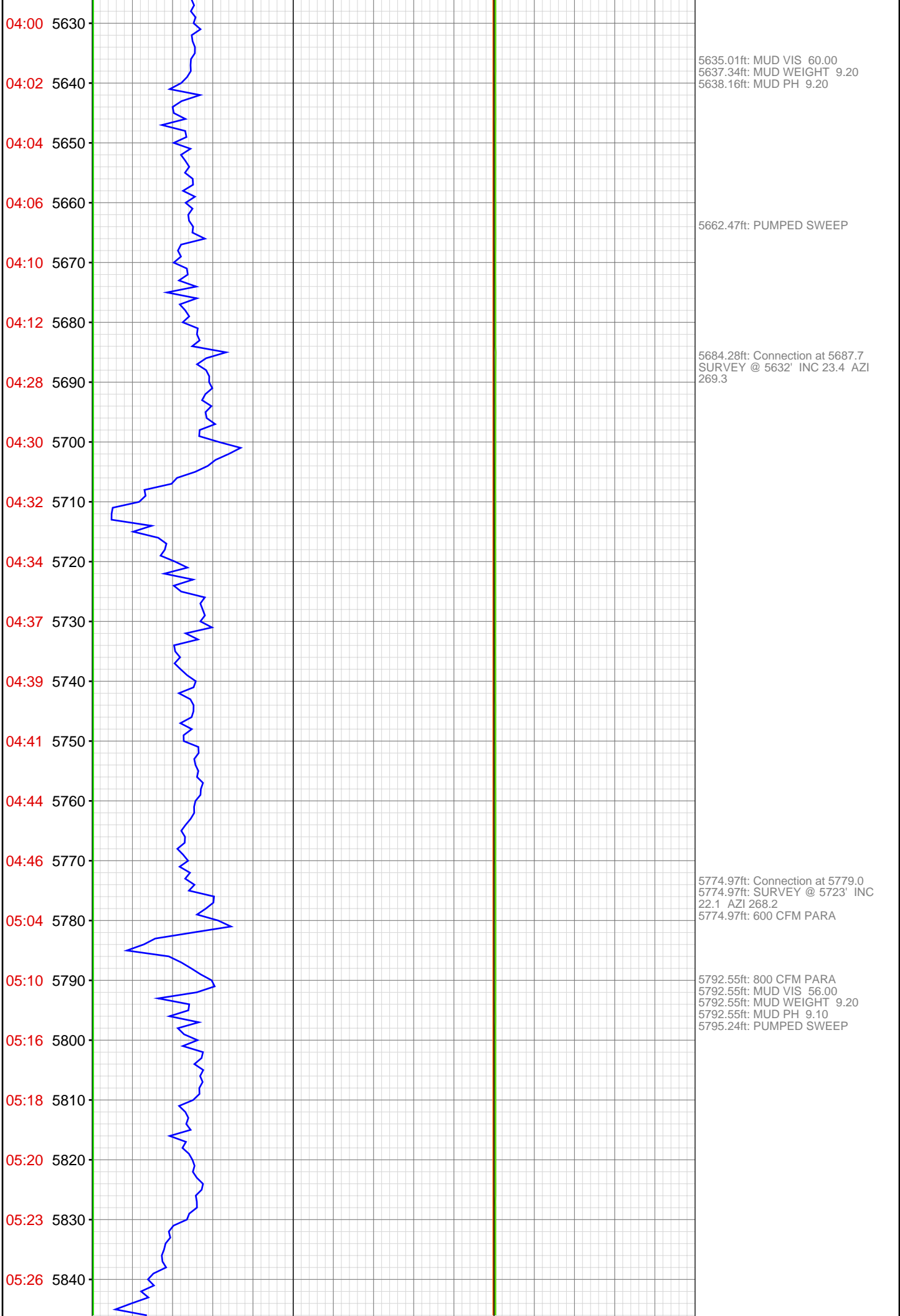
4888.22ft: PUMPED SWEEP

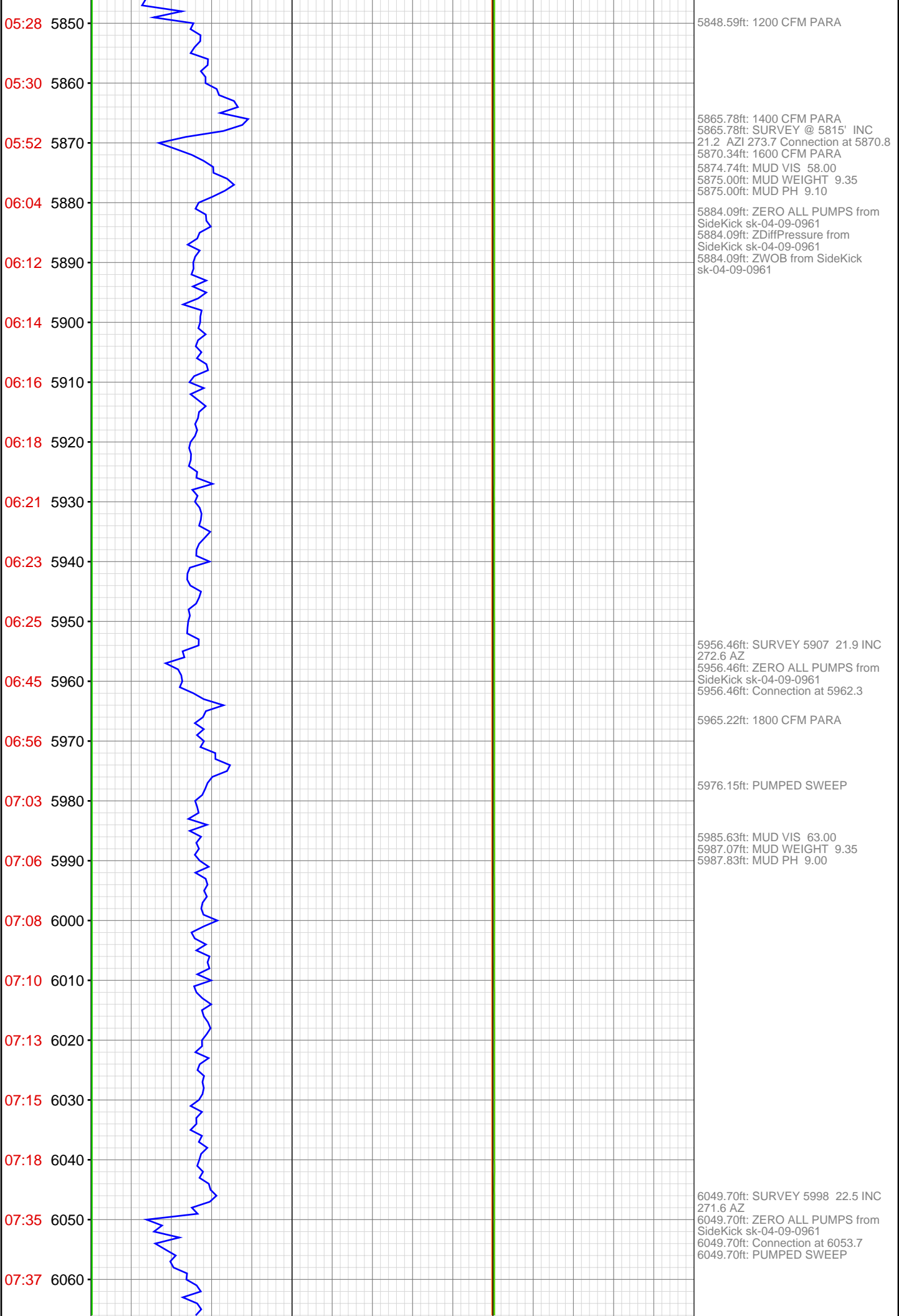
4959.25ft: MUD VIS 61.00  
4959.25ft: MUD WEIGHT 9.20  
4959.25ft: MUD PH 9.10  
4959.25ft: SURVEY 4902 27.1 INC  
270.1 AZ  
4959.25ft: AIR IS BYPASSED  
4959.25ft: ZERO ALL PUMPS from  
SideKick sk-04-09-0961  
4959.25ft: ZERO ALL PUMPS from  
SideKick sk-04-09-0961  
4959.25ft: BLOWDOWN KELLY  
4959.25ft: SURVEY  
4959.25ft: BLOWDOWN KELLY  
4959.25ft: L/D MWD. GAP SUB  
4959.25ft: MUD VIS 54.00  
4959.25ft: MUD WEIGHT 9.15  
4959.25ft: MUD PH 8.90  
4959.25ft: MUD VIS 53.00  
4959.25ft: MUD WEIGHT 9.15  
4959.25ft: MUD PH 9.10  
4959.25ft: DERRICKMAN 100%  
TIED OFF JM,MM,SS INSTALL ROT



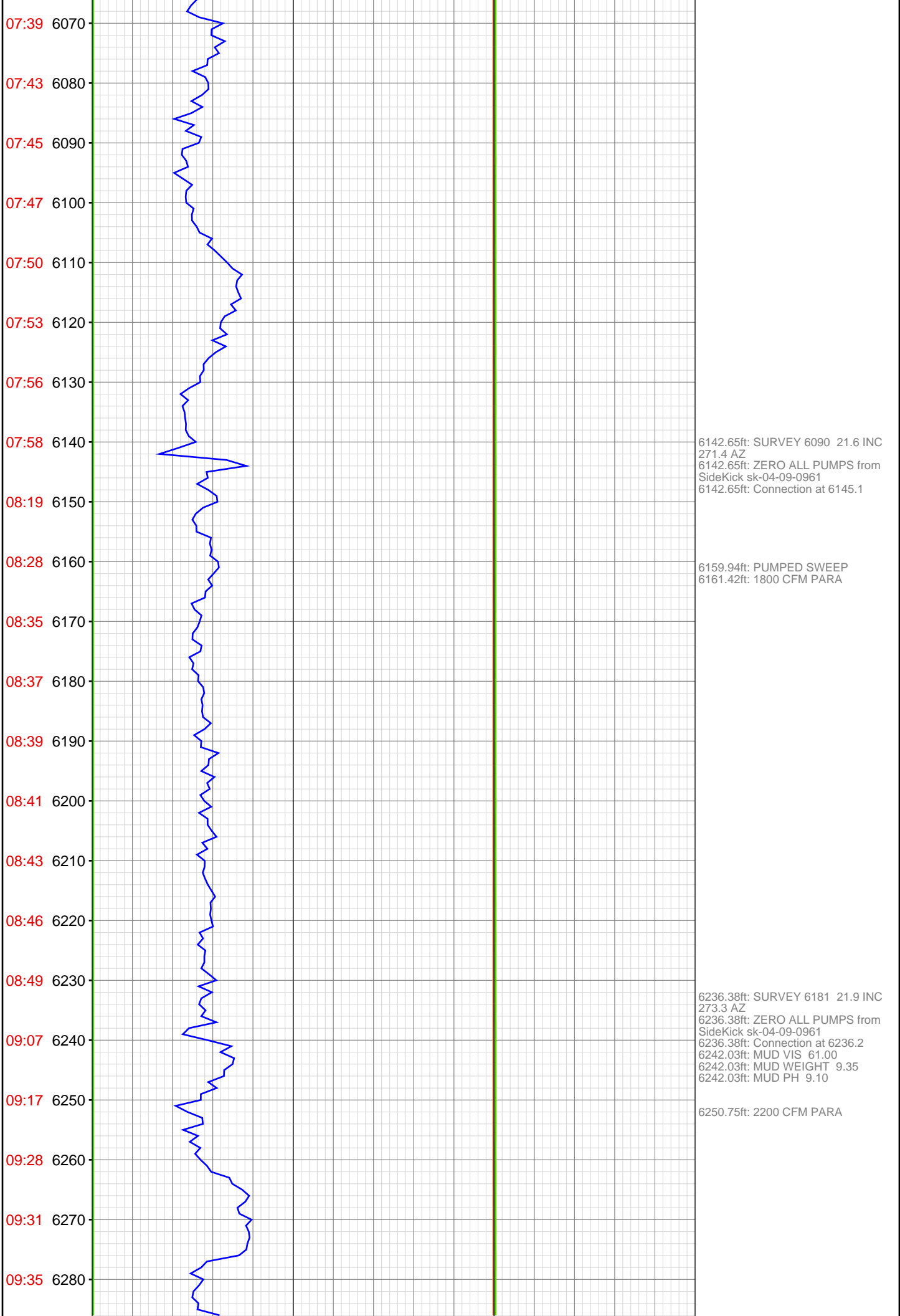


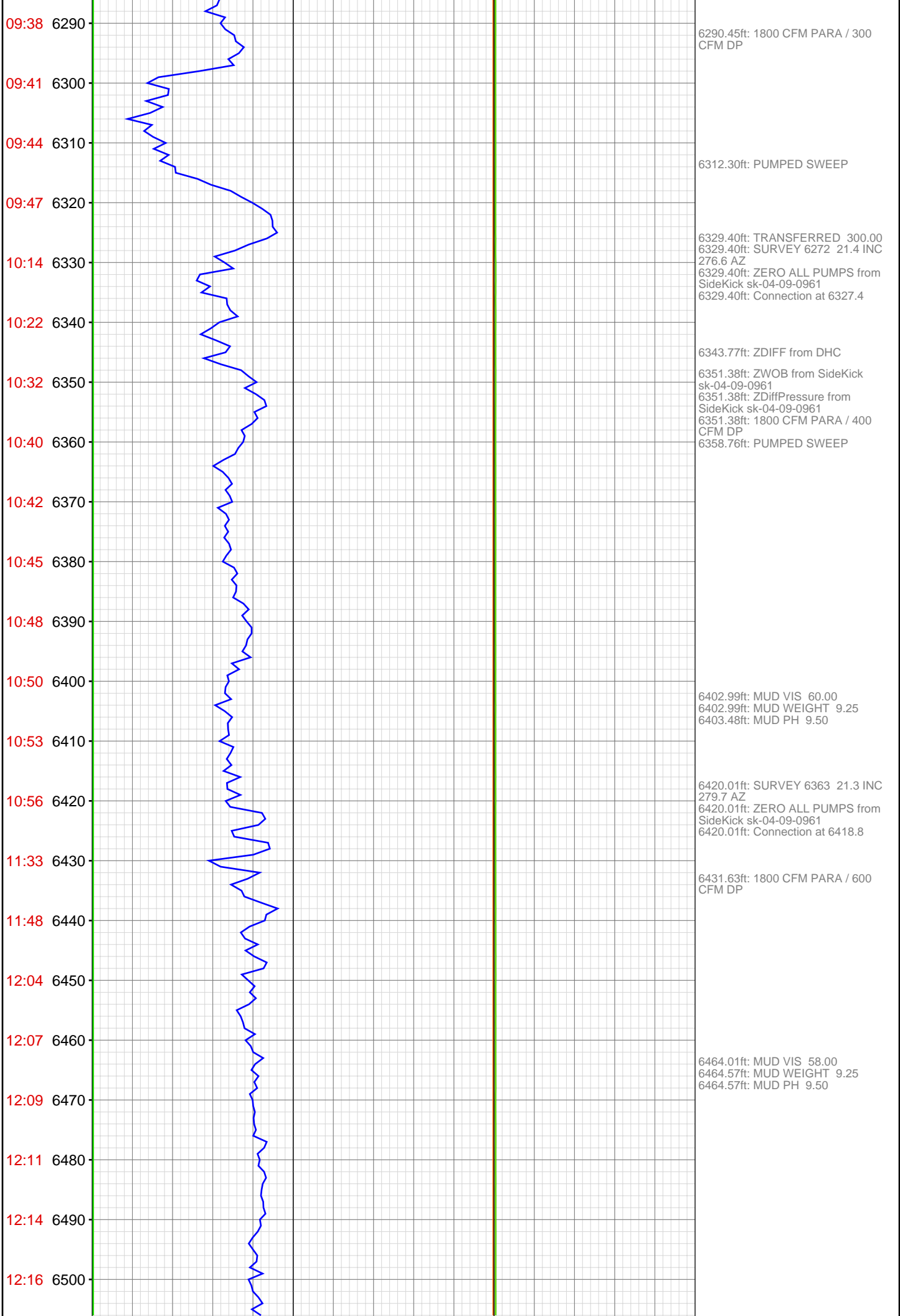


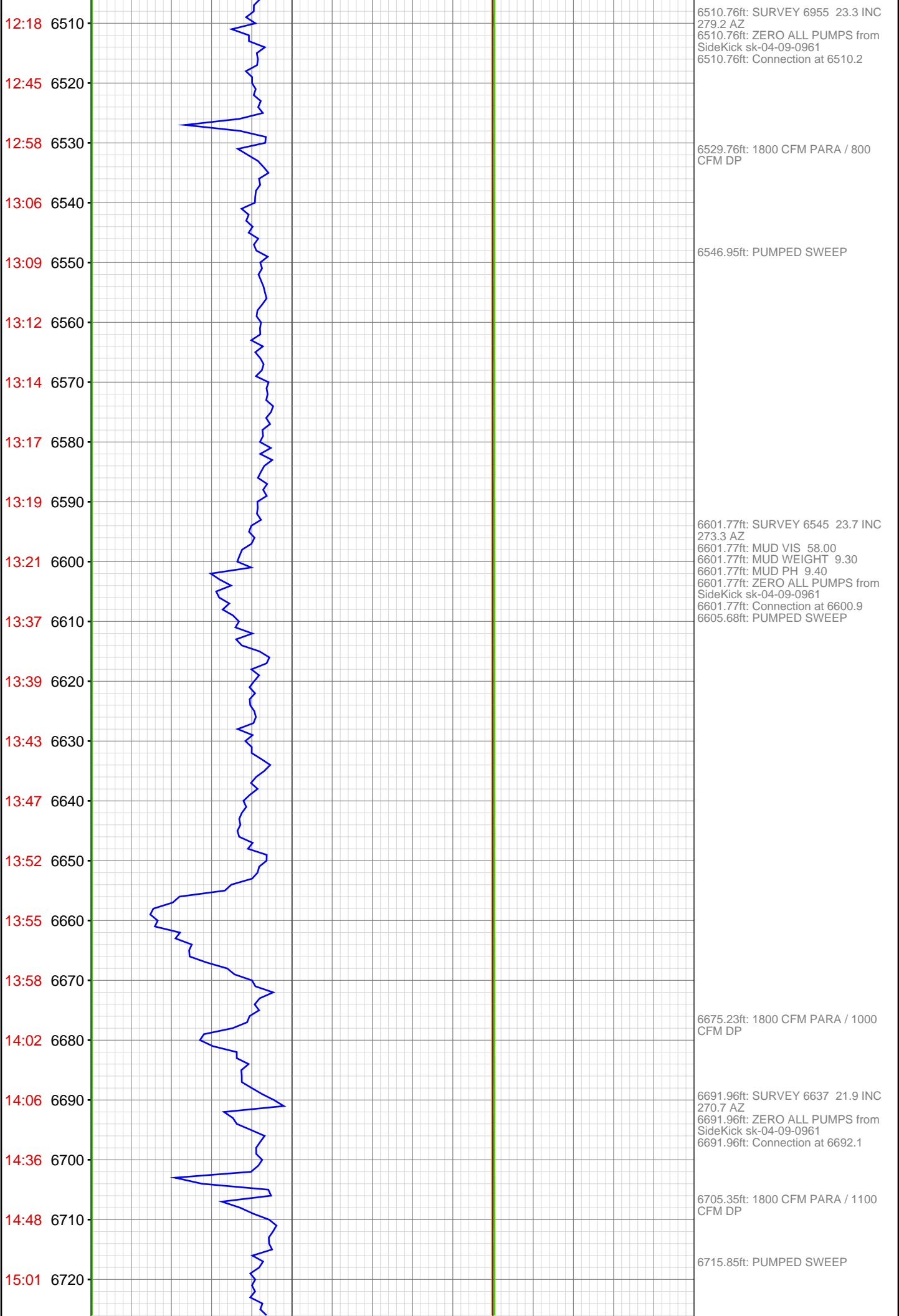












15:05 6730  
15:08 6740  
15:10 6750  
15:13 6760  
15:16 6770  
15:20 6780  
15:51 6790  
16:10 6800  
16:23 6810  
16:31 6820  
16:34 6830  
16:36 6840  
16:39 6850  
16:42 6860  
16:45 6870  
17:10 6880  
17:25 6890  
17:41 6900  
17:44 6910  
17:46 6920  
17:49 6930  
17:53 6940

6735.01ft: MUD VIS 57.00  
6735.20ft: MUD WEIGHT 9.30  
6735.20ft: MUD PH 9.10

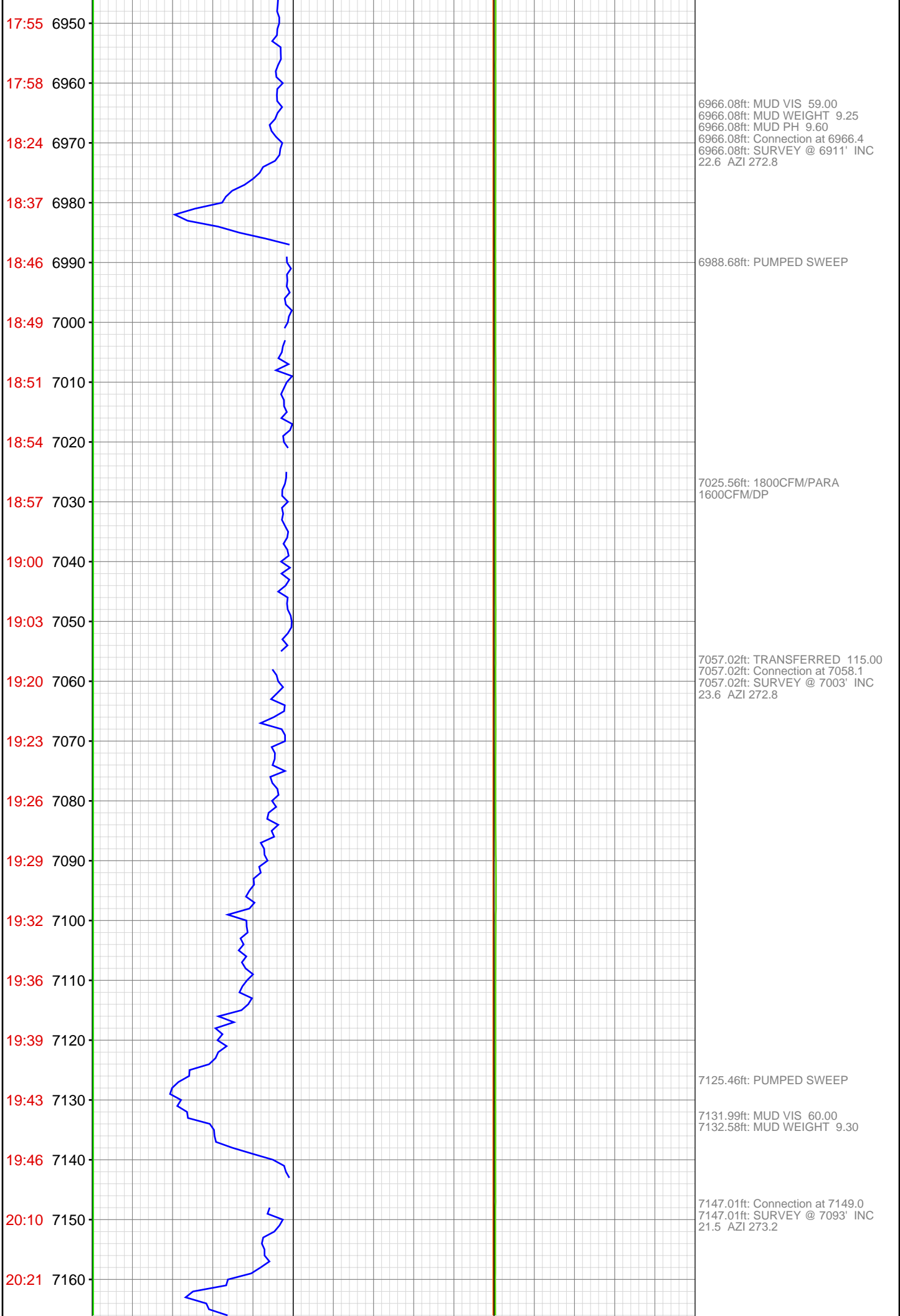
6782.64ft: SURVEY 6728 21.2 INC  
273.6 AZ  
6782.64ft: ZERO ALL PUMPS from  
SideKick sk-04-09-0961  
6782.64ft: Connection at 6783.5

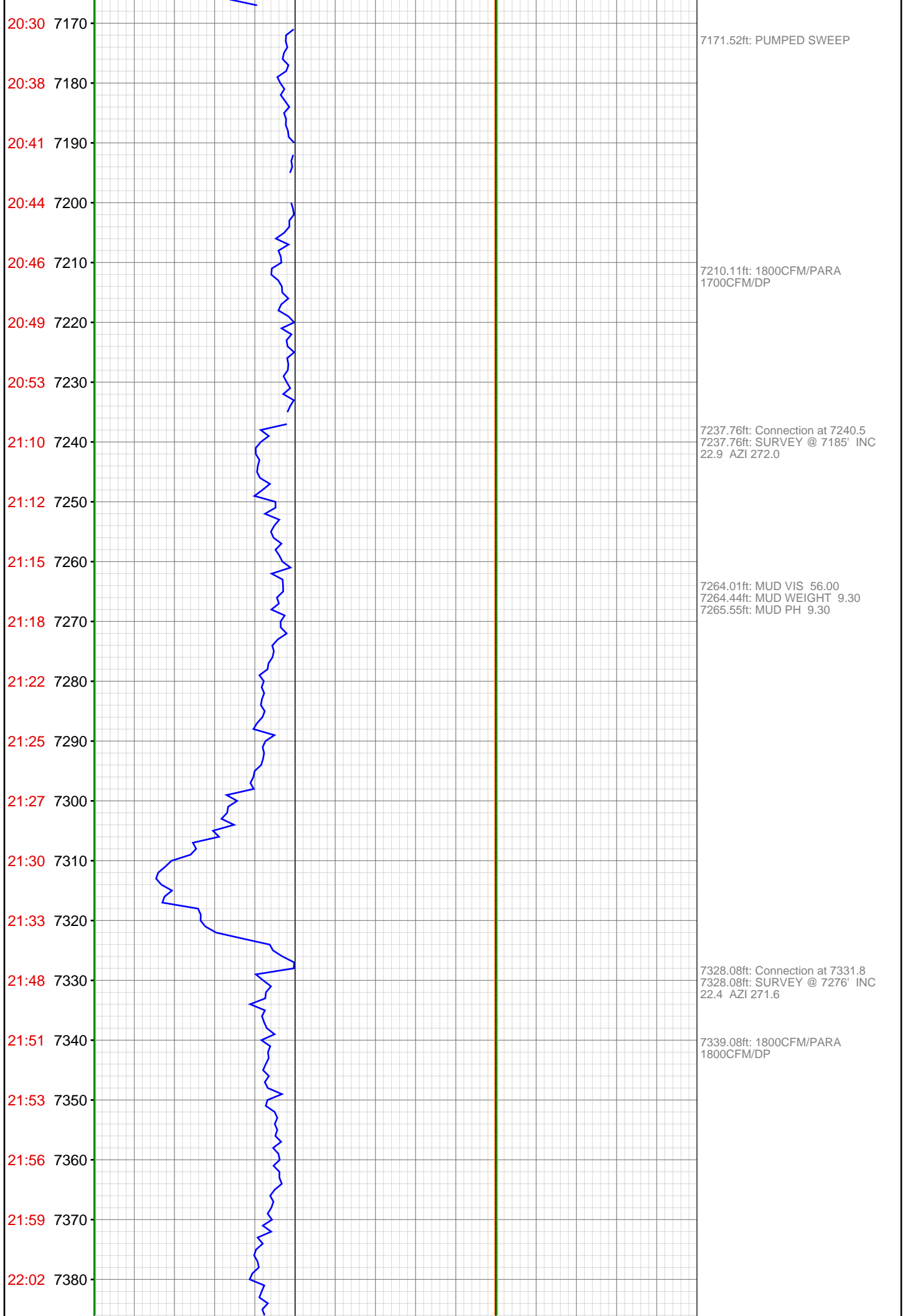
6795.01ft: 1800 CFM PARA / 1300  
CFM DP  
6800.92ft: MUD VIS 54.00  
6801.05ft: MUD WEIGHT 9.30  
6801.18ft: MUD PH 9.30

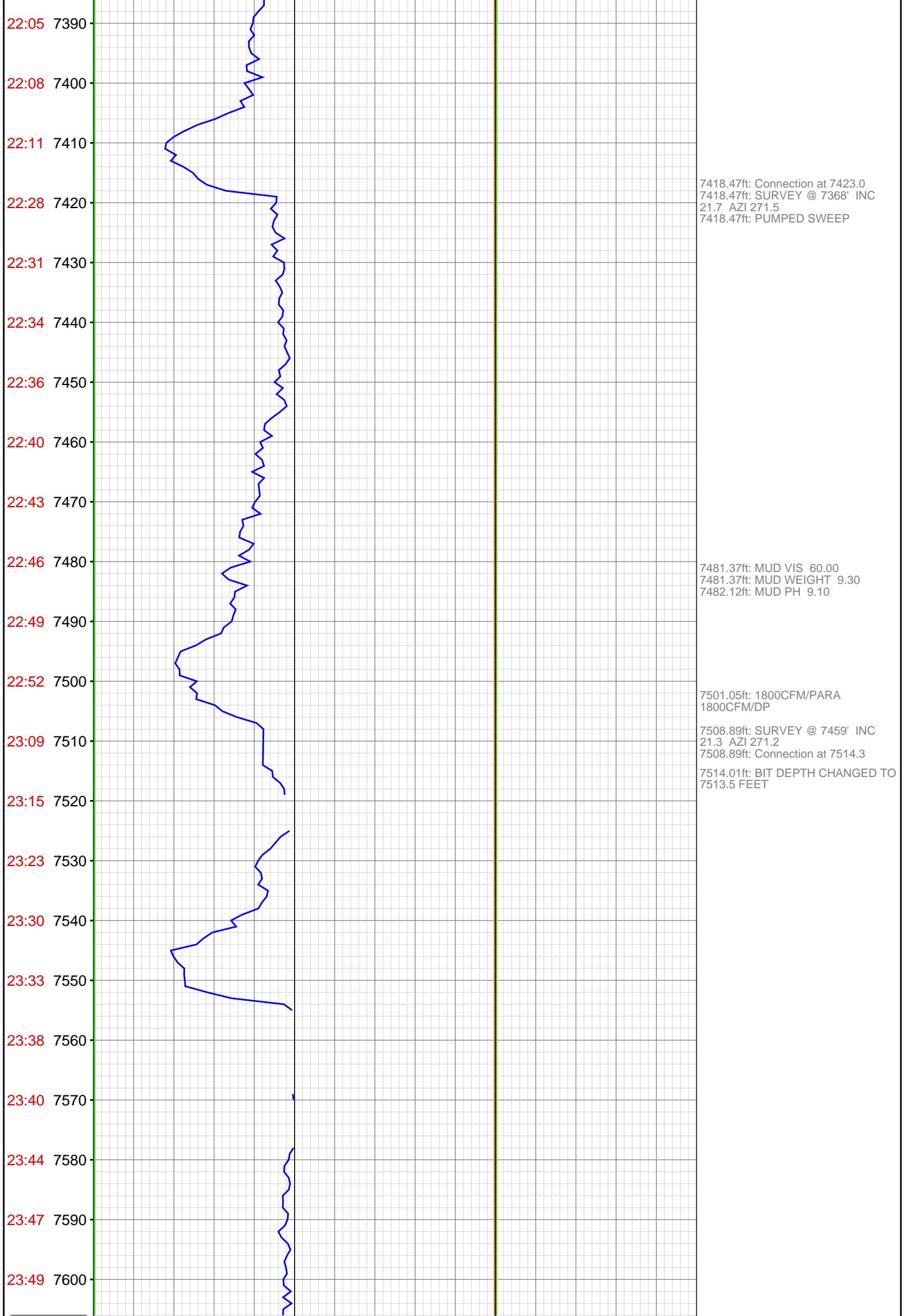
6813.22ft: PUMPED SWEEP

6875.39ft: SURVEY 6819 22.6 INC  
273.6 AZ  
6875.39ft: ZERO ALL PUMPS from  
SideKick sk-04-09-0961  
6875.39ft: Connection at 6875.0  
6878.08ft: MUD VIS 63.00  
6878.35ft: MUD WEIGHT 9.30  
6878.35ft: MUD PH 9.60

6885.60ft: 1800CFM/PARA  
1800CFM/DP







Dec 11, 2012

00:06 7610

00:08 7620

00:11 7630

00:14 7640

00:17 7650

00:20 7660

00:23 7670

00:26 7680

00:29 7690

00:49 7700

00:57 7710

01:04 7720

01:07 7730

01:09 7740

01:13 7750

01:16 7760

01:18 7770

01:22 7780

01:44 7790

01:53 7800

01:56 7810

01:59 7820

7606.76ft: Connection at 7605.9  
7606.76ft: SURVEY @ 7550' INC  
19.5 AZI 275.9

7681.96ft: 1800CFM/PARA  
1800CFM/DP

7697.28ft: Connection at 7697.3  
7697.28ft: SURVEY @ 7642' INC  
18.8 AZI 277.1

7713.35ft: PUMPED SWEEP

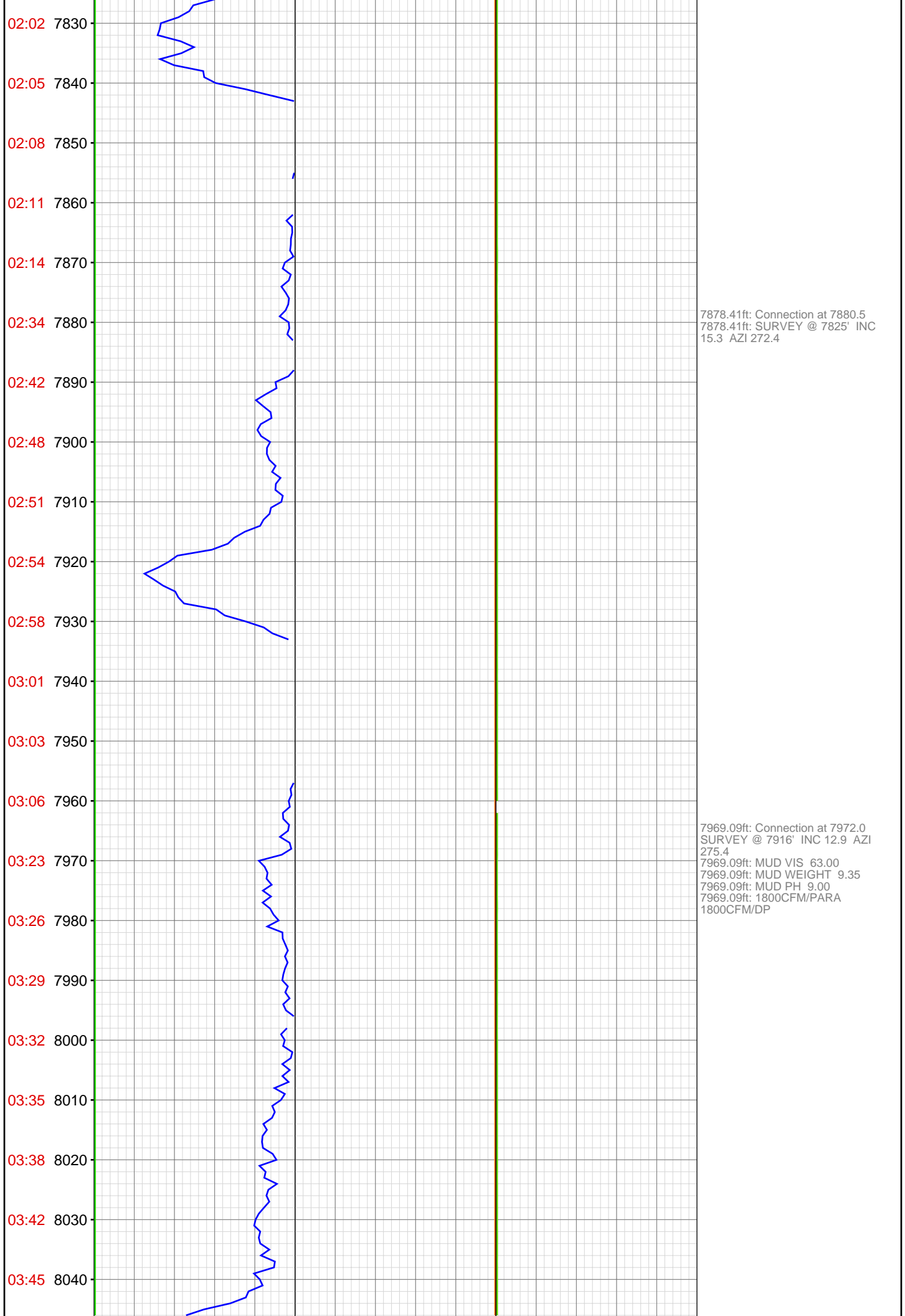
7764.01ft: MUD VIS 60.00  
7764.01ft: MUD WEIGHT 9.30  
7764.60ft: MUD PH 9.00

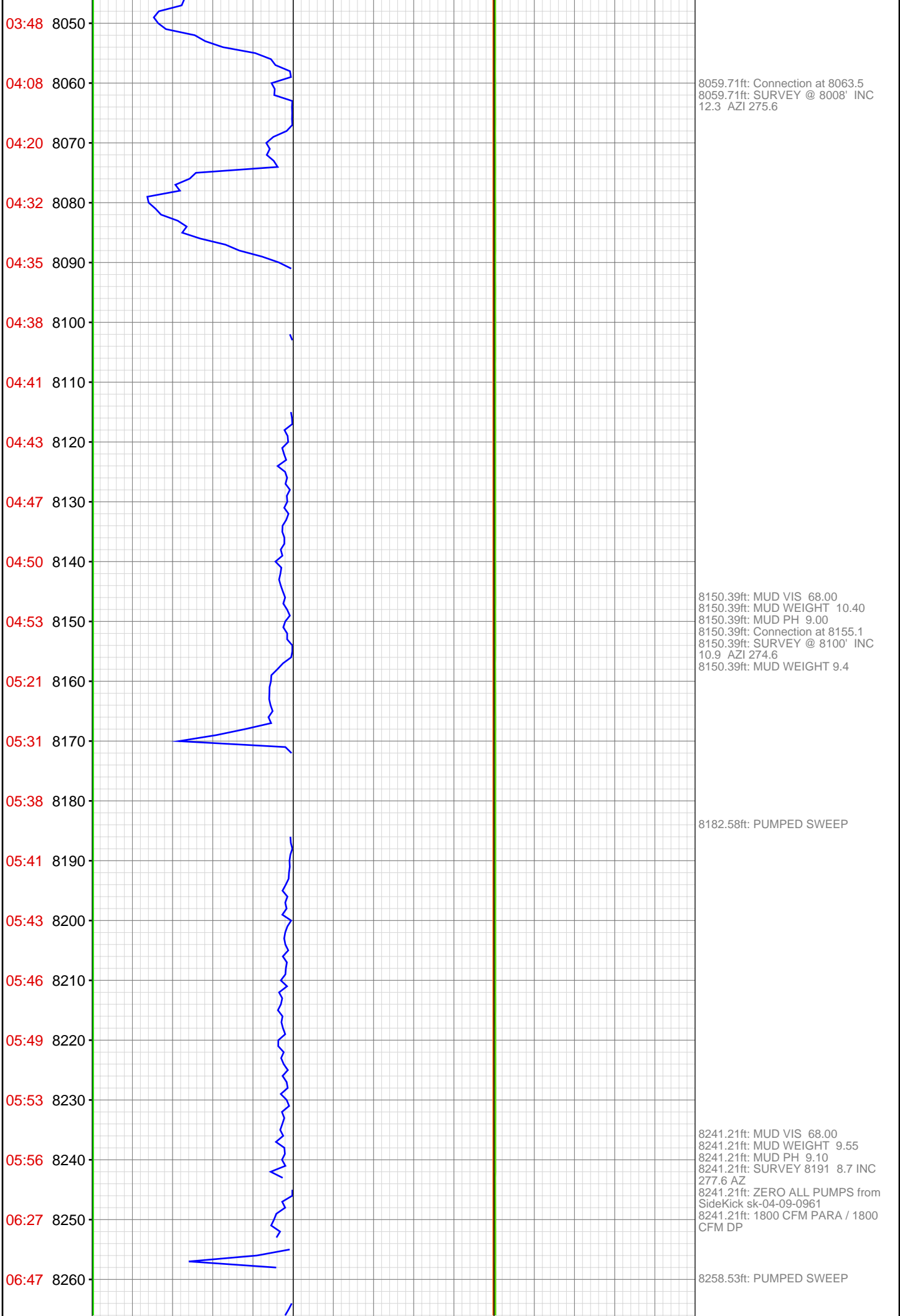
7787.76ft: Connection at 7788.8  
7787.76ft: SURVEY @ 7733' INC  
16.8 AZI 272.7

7800.98ft: PUMPED SWEEP

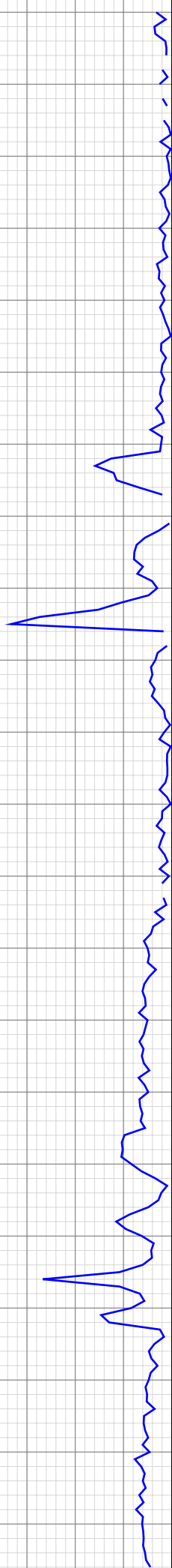
7804.66ft: 1800CFM/PARA  
1800CFM/DP







06:50 8270  
06:53 8280  
06:56 8290  
06:58 8300  
07:01 8310  
07:03 8320  
07:07 8330  
07:33 8340  
07:44 8350  
07:53 8360  
07:56 8370  
07:58 8380  
08:01 8390  
08:04 8400  
08:06 8410  
08:09 8420  
08:28 8430  
08:44 8440  
08:57 8450  
09:04 8460  
09:07 8470  
09:09 8480



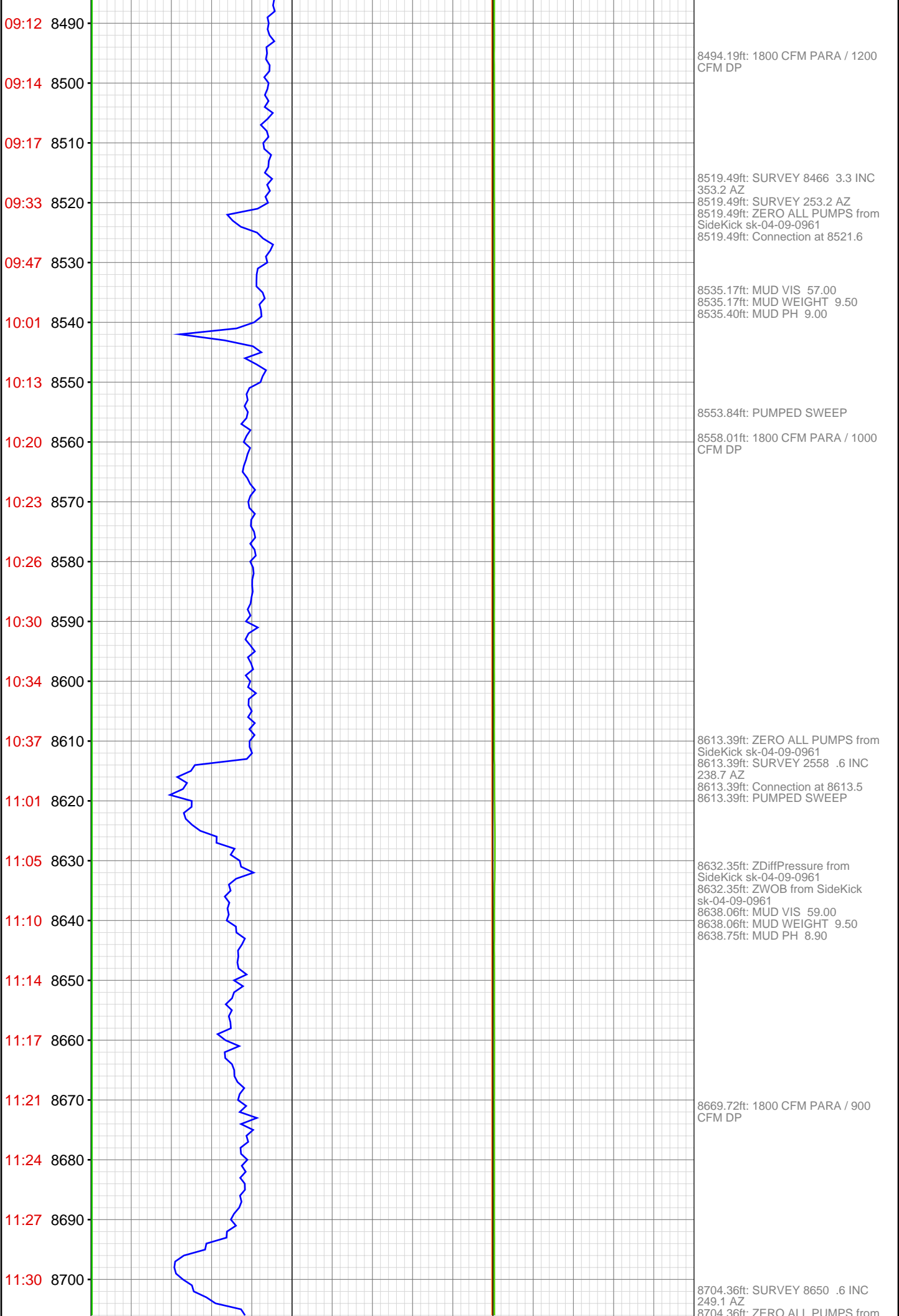
8331.27ft: SURVEY 8282 7.0 INC  
274.5 AZ  
8331.27ft: ZERO ALL PUMPS from  
SideKick sk-04-09-0961  
8331.27ft: Connection at 8337.8  
8331.27ft: 1800 CFM PARA / 1600  
CFM DP

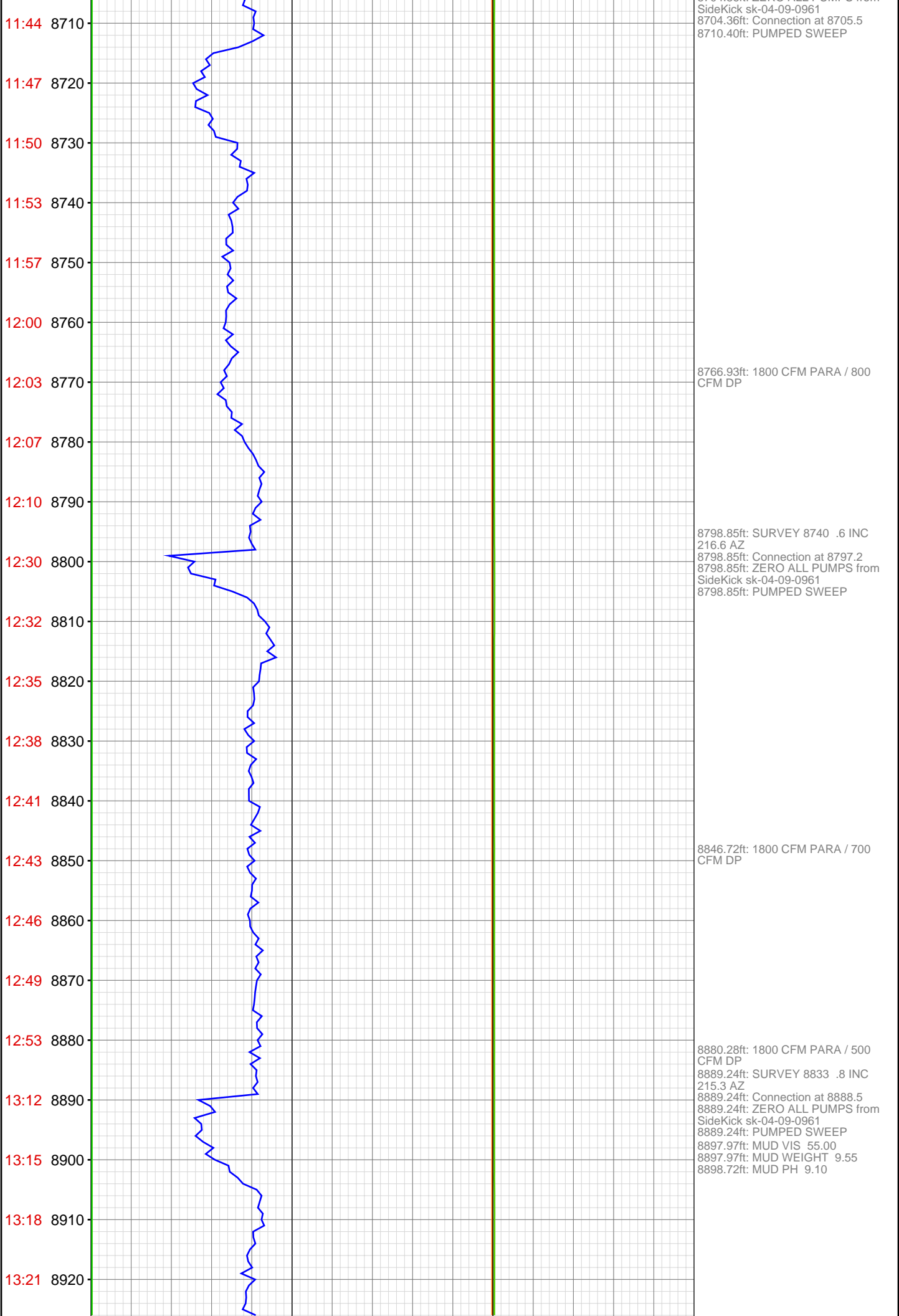
8348.88ft: 1800 CFM PARA / 1400  
CFM DP  
8353.87ft: MUD VIS 66.00  
8353.87ft: MUD WEIGHT 9.50  
8354.59ft: MUD PH 9.10  
8355.58ft: 1800 CFM PARA / 1600  
CFM DP  
8355.58ft: PUMPED SWEEP

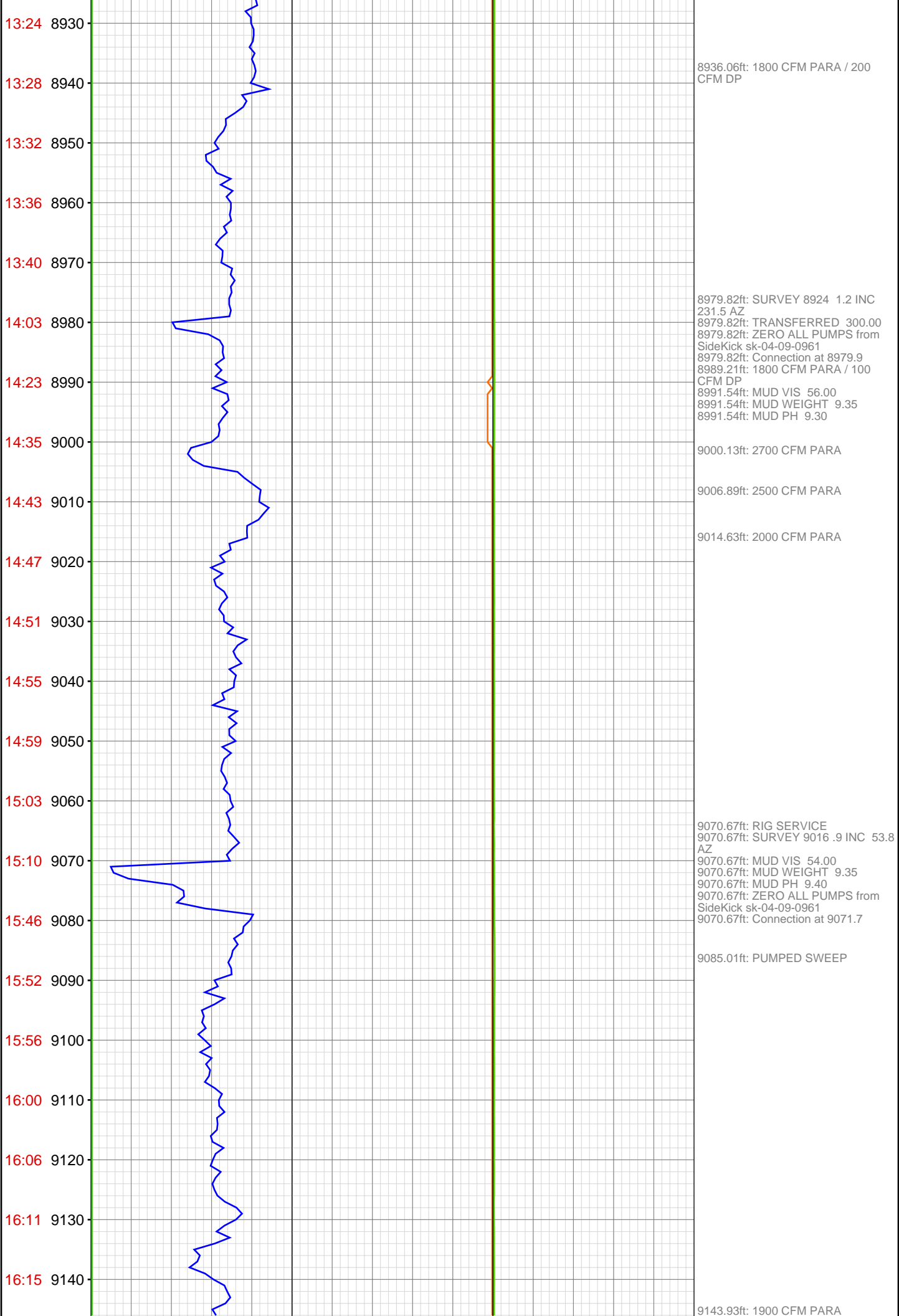
8425.36ft: SURVEY 8374 5.4 INC  
262.1 AZ  
8425.36ft: ZERO ALL PUMPS from  
SideKick sk-04-09-0961  
8425.36ft: Connection at 8429.8

8443.57ft: 1800 CFM PARA / 1400  
CFM DP

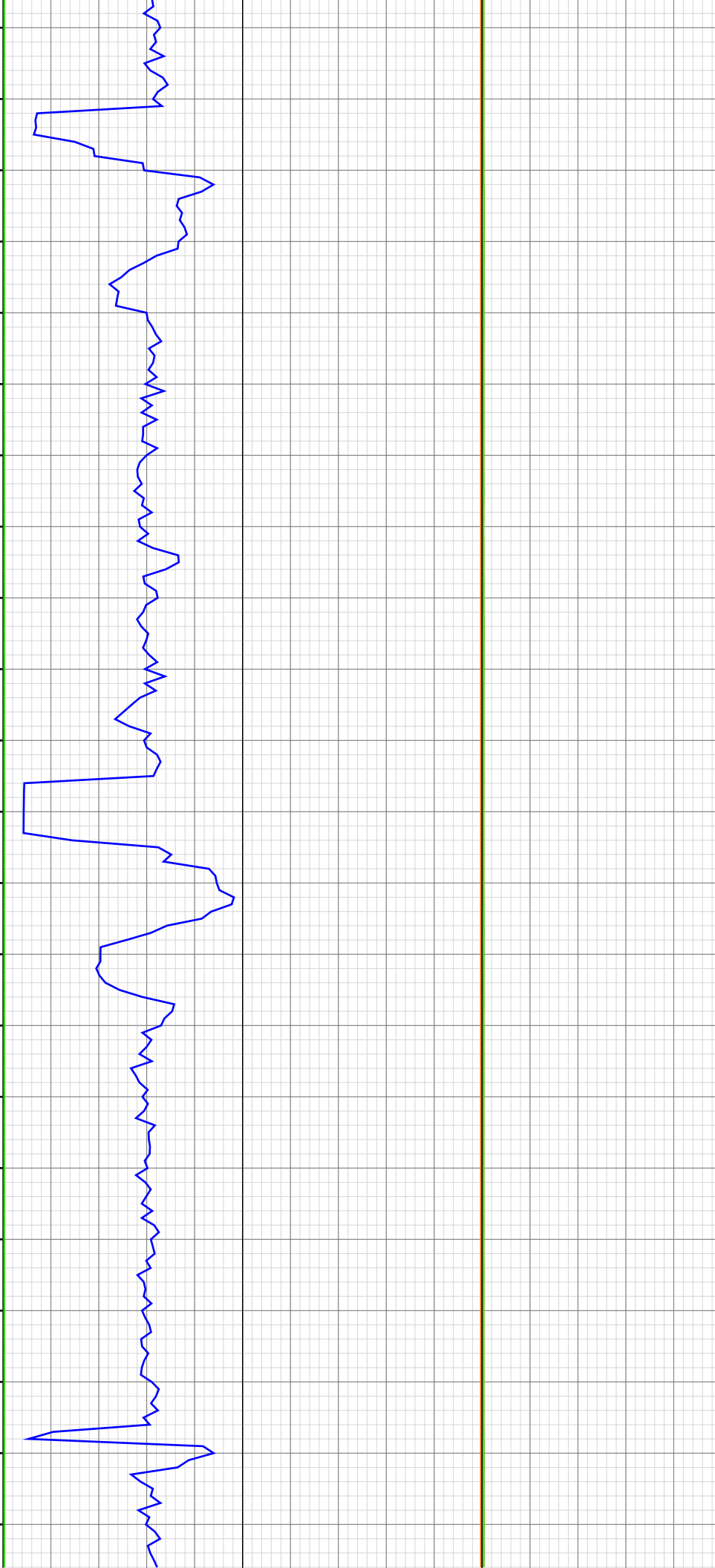
8477.95ft: PUMPED SWEEP







16:20 9150  
16:25 9160  
16:48 9170  
16:53 9180  
16:57 9190  
17:01 9200  
17:05 9210  
17:09 9220  
17:21 9230  
17:25 9240  
17:29 9250  
17:52 9260  
17:56 9270  
18:01 9280  
18:07 9290  
18:12 9300  
18:17 9310  
18:22 9320  
18:27 9330  
18:31 9340  
18:59 9350  
19:18 9360



9161.32ft: SURVEY 9108 1.1 INC  
52.9 AZ  
9161.32ft: ZERO ALL PUMPS from  
SideKick sk-04-09-0961  
9161.32ft: Connection at 9163.2  
PUMPED SWEEP  
9166.27ft: MUD VIS 57.00  
9166.67ft: MUD WEIGHT 9.40  
9167.00ft: MUD PH 9.20

9205.25ft: 1800CFM/PARA

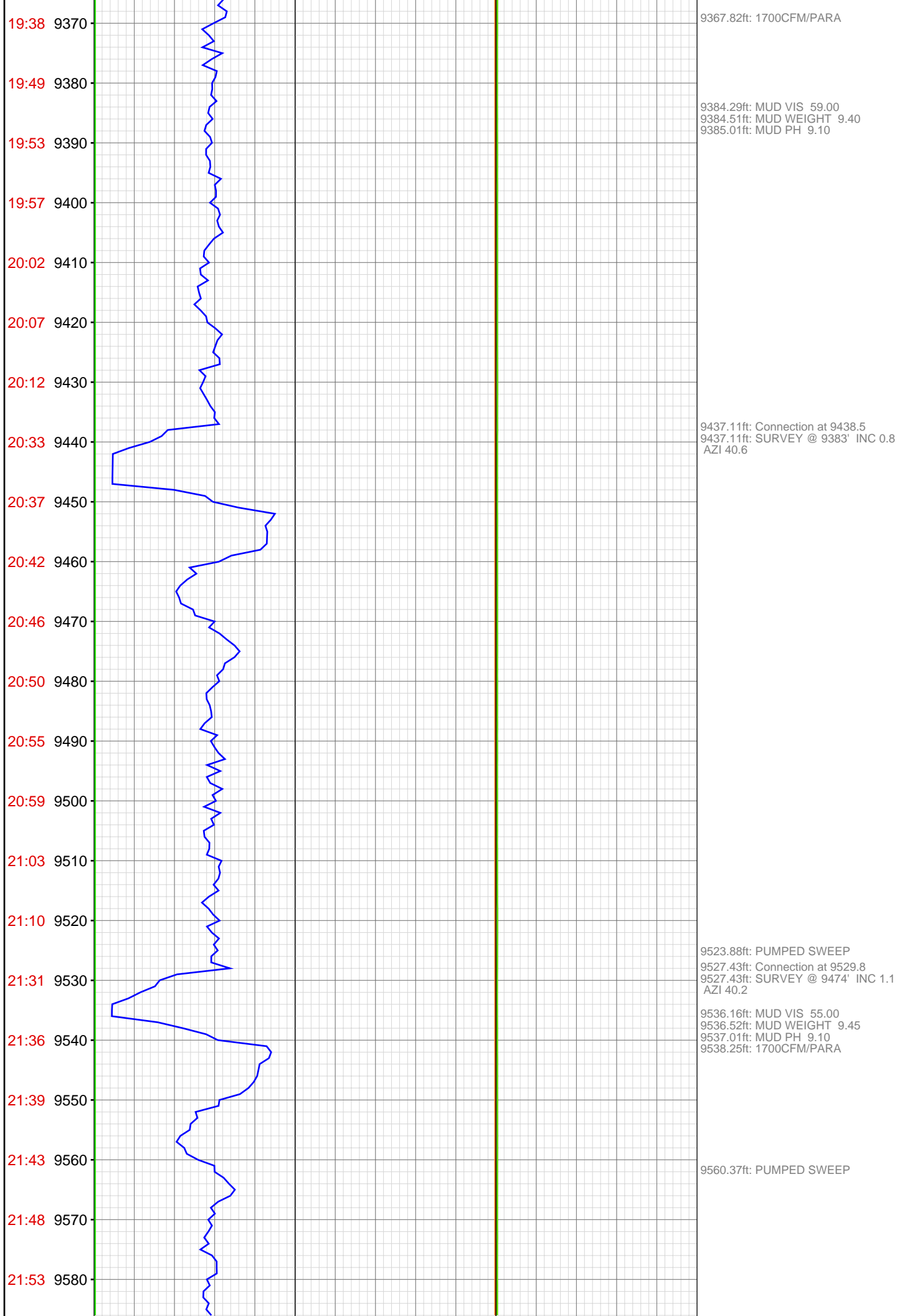
9255.38ft: ZERO ALL PUMPS from  
SideKick sk-04-09-0961  
9255.38ft: Connection at 9255.0  
9255.38ft: SURVEY @ 9200' INC 0.4  
AZI 38.5

9263.98ft: PUMPED SWEEP

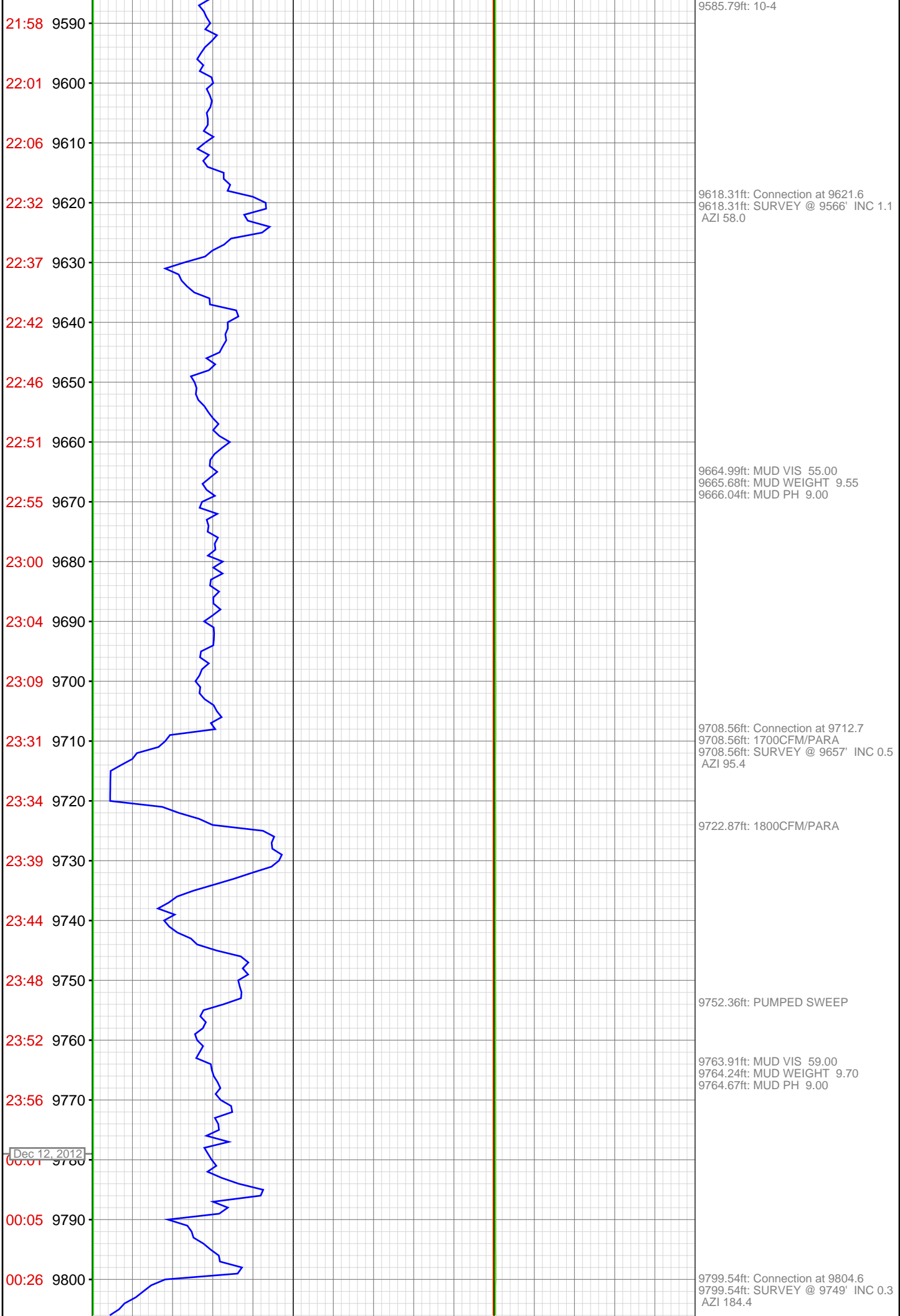
9292.00ft: 1800CFM/PARA

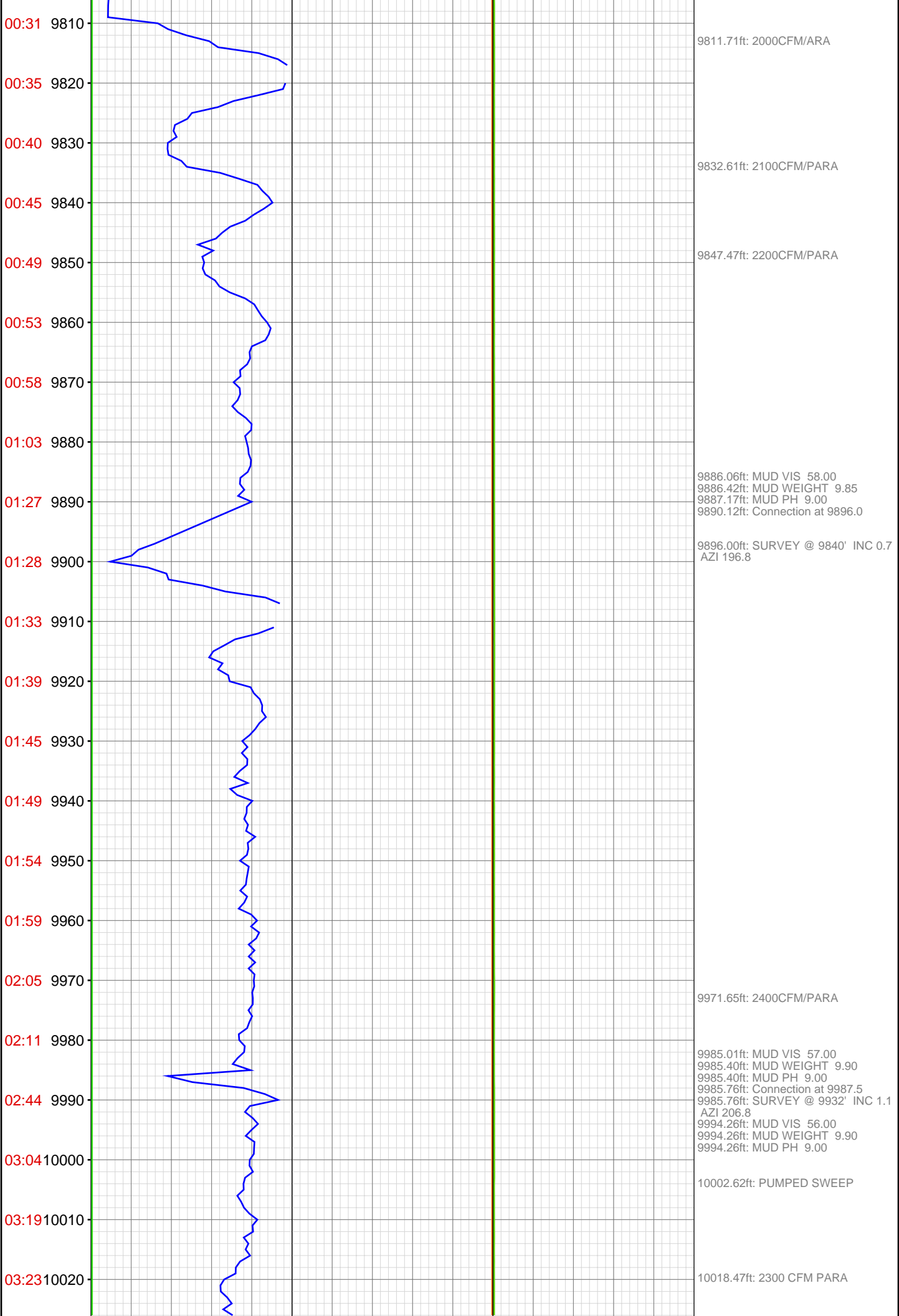
9326.28ft: MUD VIS 57.00  
9326.77ft: MUD WEIGHT 9.40  
9326.94ft: MUD PH 9.10

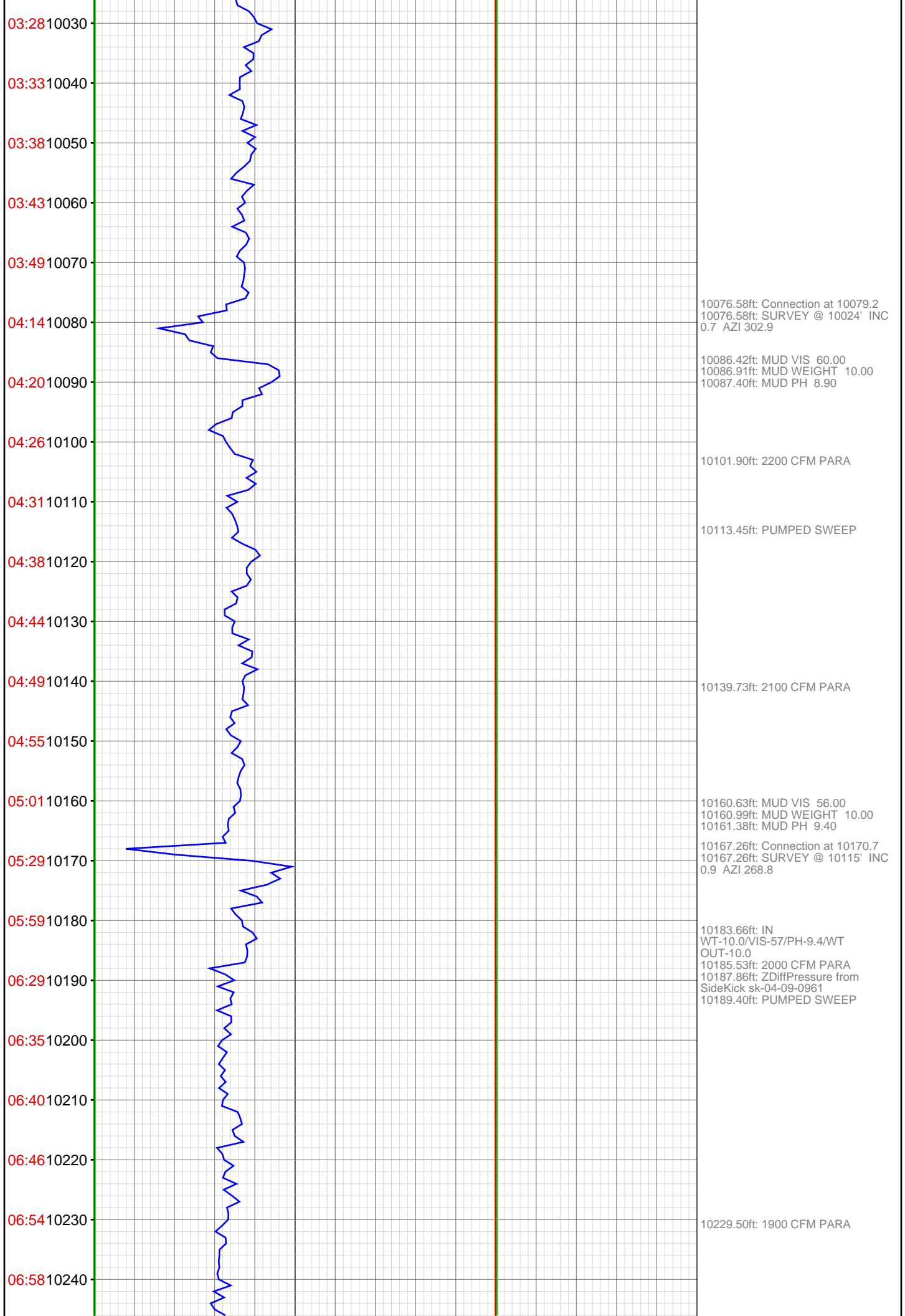
9346.29ft: Connection at 9346.9  
9346.29ft: SURVEY @ 9291' INC 0.4  
AZI 228.4

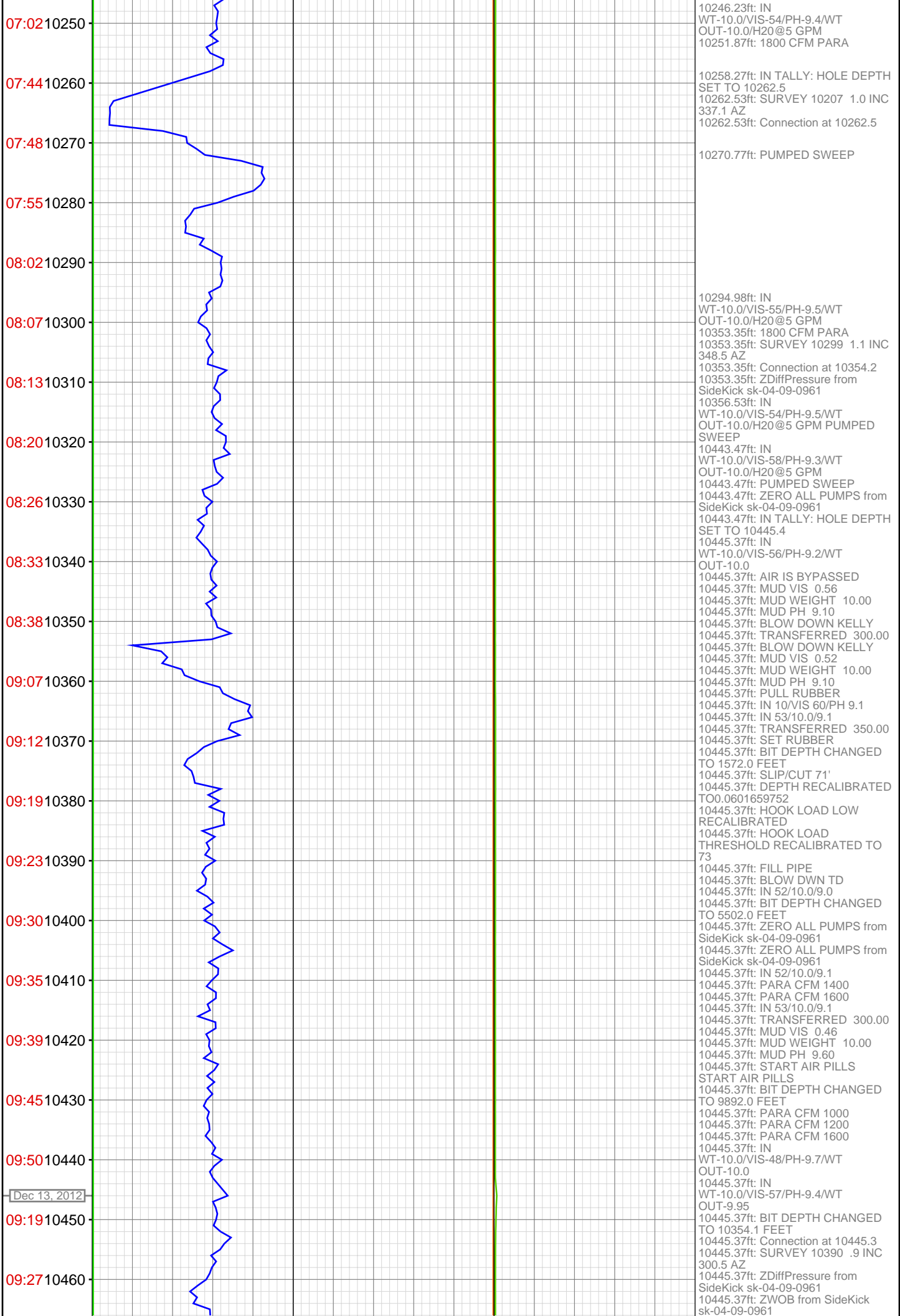


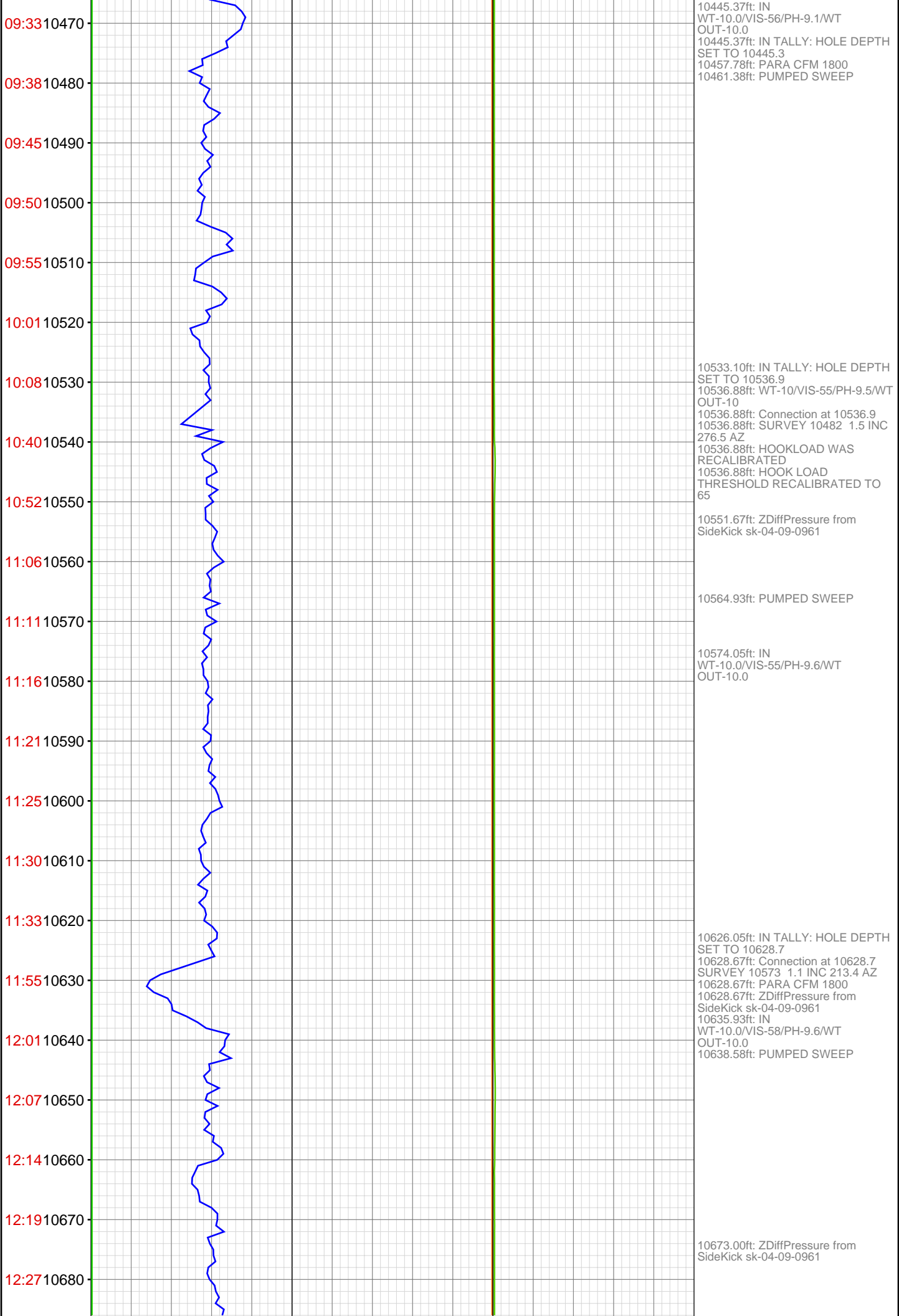


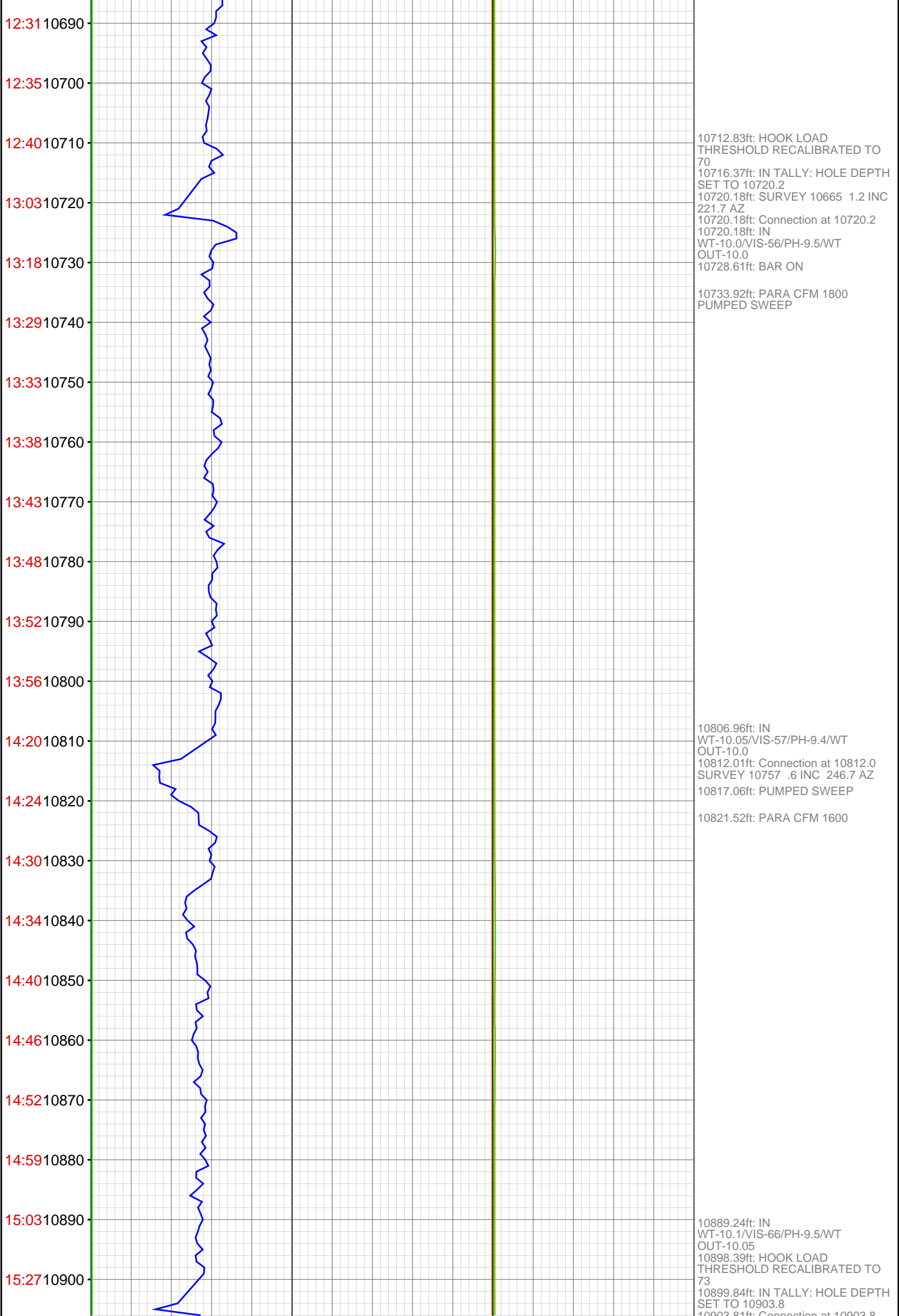








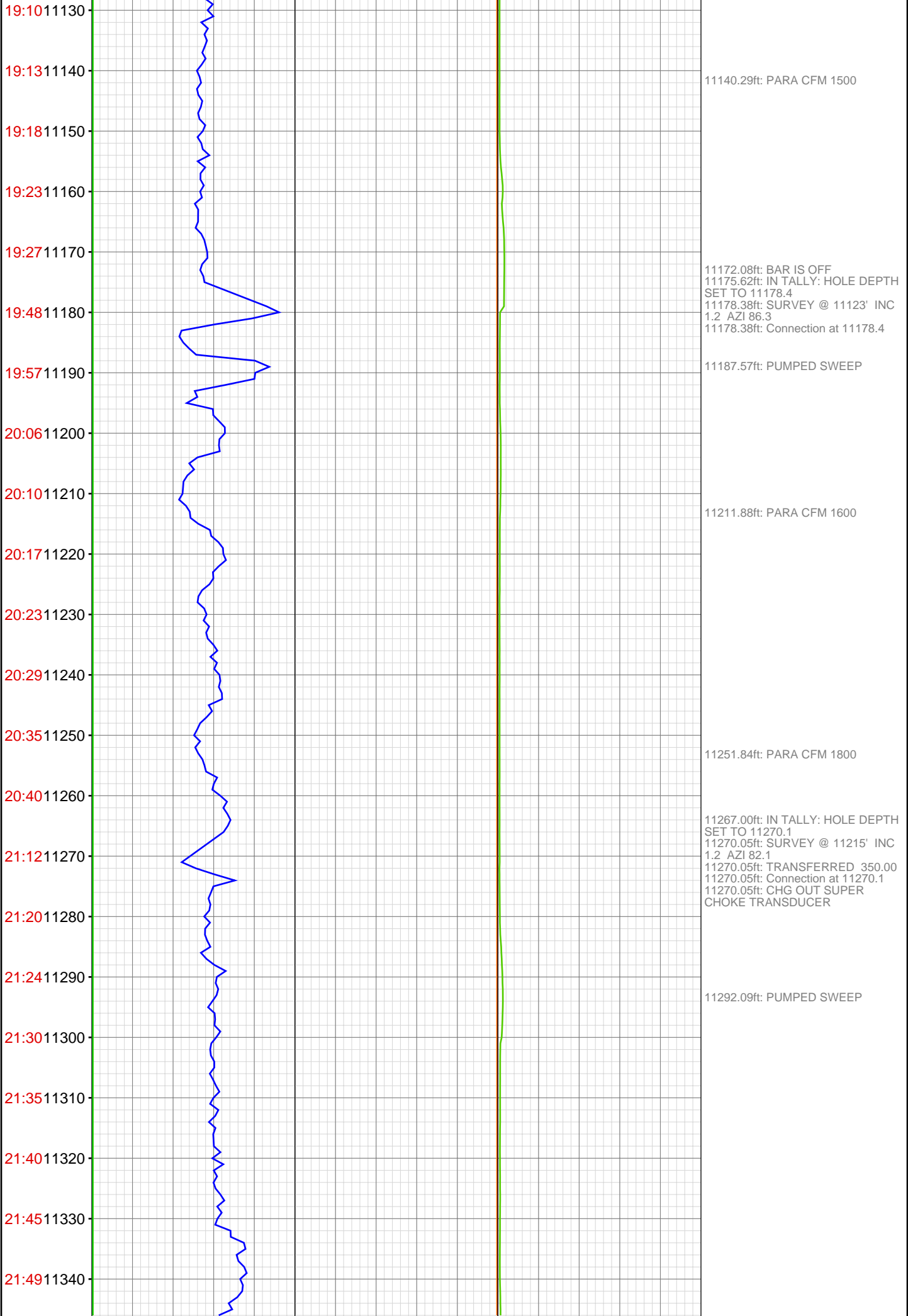




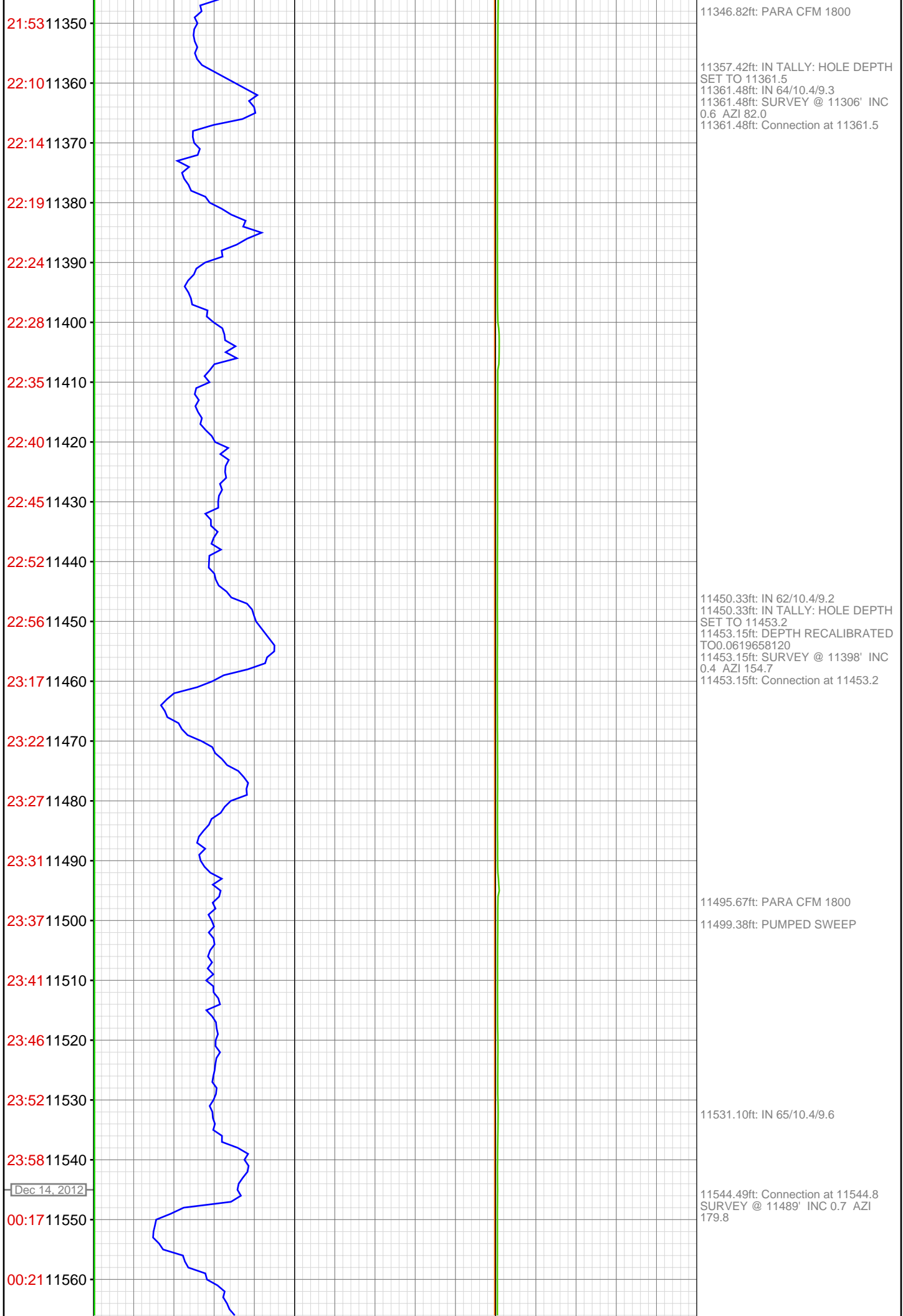
15:44 10910  
16:16 10920  
16:21 10930  
16:25 10940  
16:31 10950  
16:35 10960  
16:42 10970  
16:48 10980  
16:54 10990  
17:27 11000  
17:33 11010  
17:37 11020  
17:43 11030  
17:48 11040  
17:53 11050  
17:59 11060  
18:04 11070  
18:09 11080  
18:32 11090  
18:49 11100  
19:01 11110  
19:05 11120

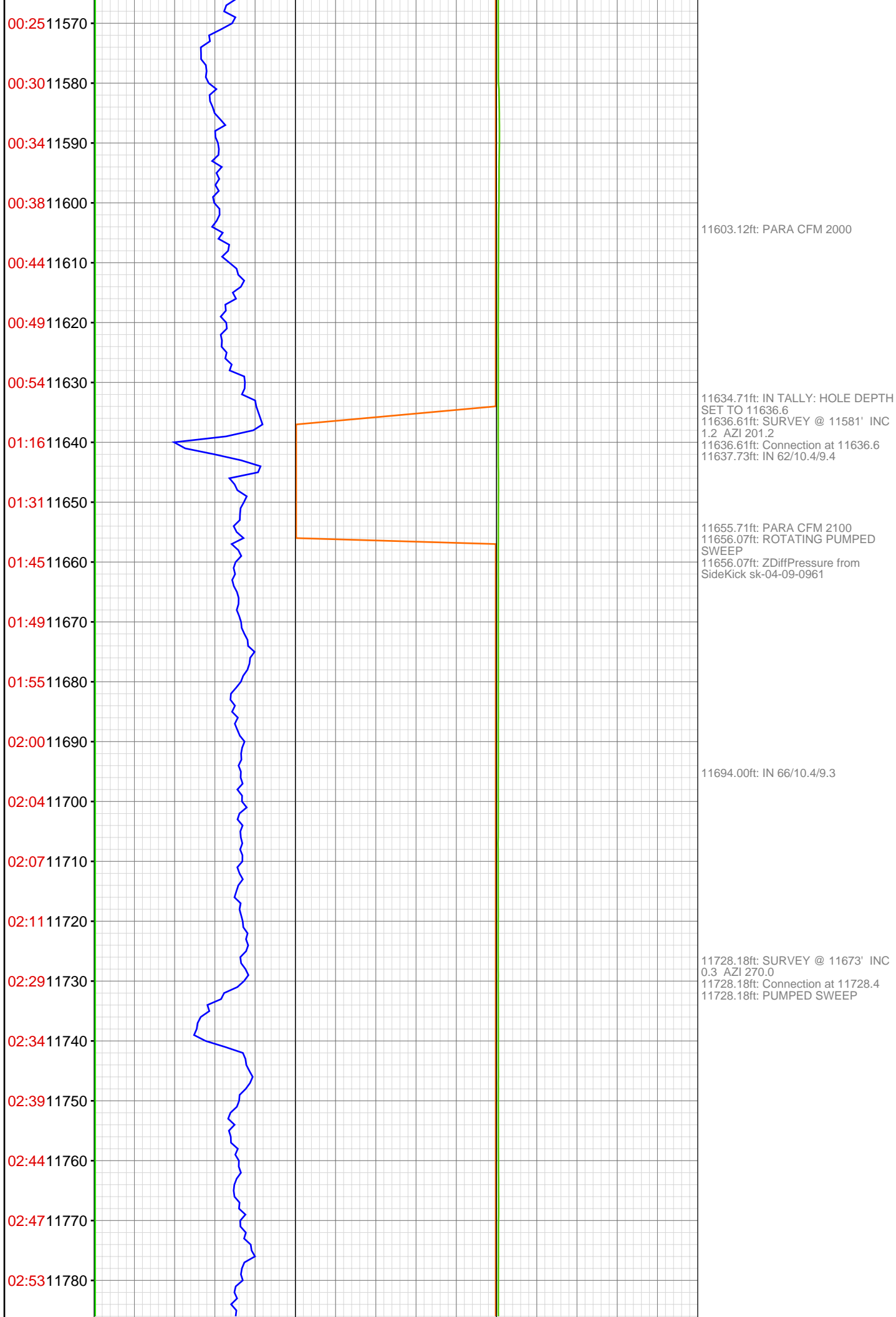


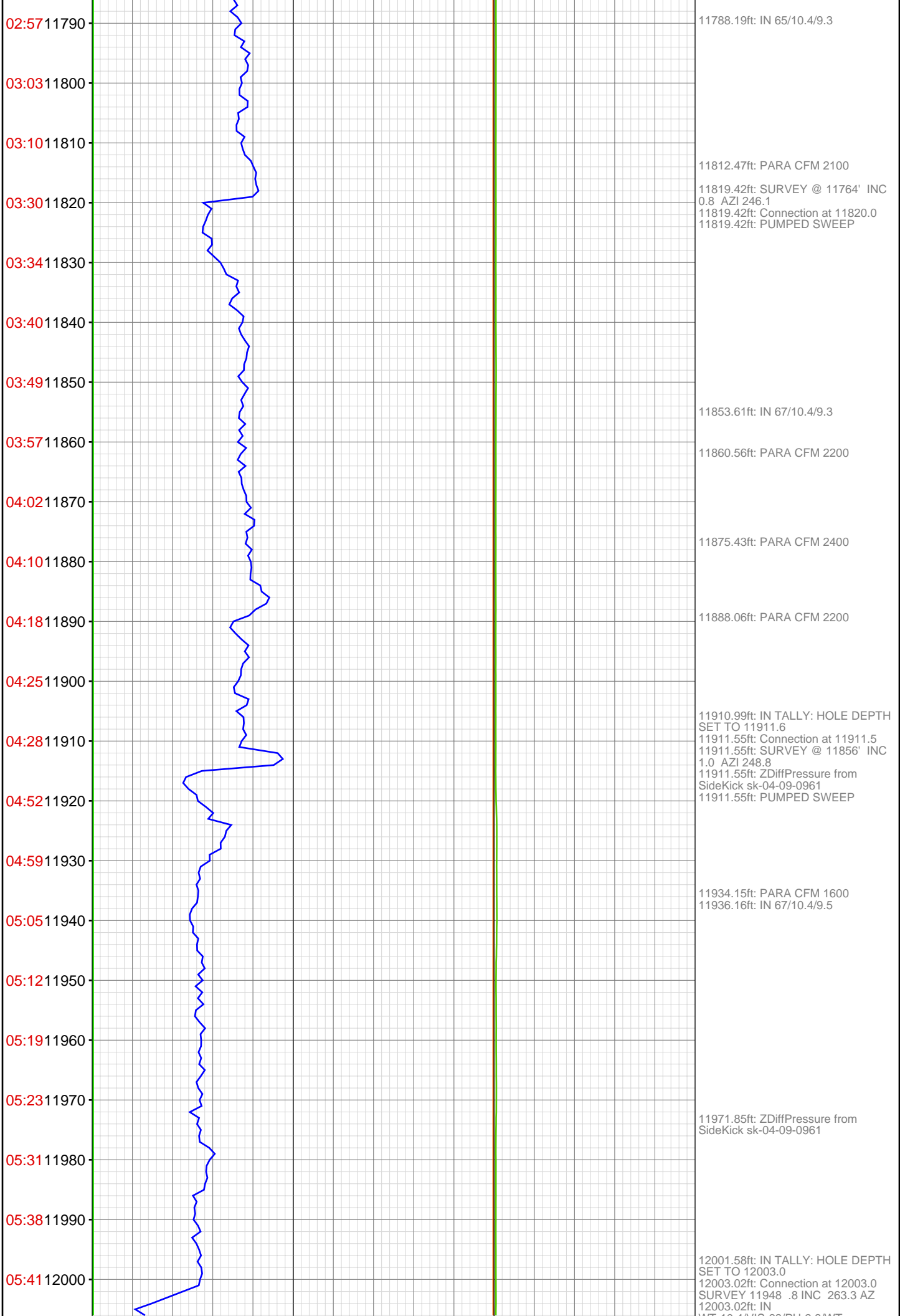
10903.81ft: Connection at 10903.8  
SURVEY 10848 .8 INC 243.8 AZ  
10907.28ft: PARA CFM 1500  
10914.99ft: WT  
IN-10.15/VIS-64/PH-9.4/WT  
OUT-10.1  
10915.45ft: BAR OFF  
10918.34ft: ZDiffPressure from  
SideKick sk-04-09-0961  
10925.10ft: PUMPED SWEEP  
  
10992.22ft: HOOK LOAD  
THRESHOLD RECALIBRATED TO  
68  
10995.51ft: IN 10.1/VIS 65/PH  
9.6/OUT 10.05/VIS 68  
10995.51ft: RIG SERVICE BAR ON  
10995.51ft: Connection at 10995.5  
SURVEY @ 10940' INC 0.4 AZI  
302.8  
10995.51ft: ZDiffPressure from  
SideKick sk-04-09-0961  
10999.48ft: PUMPED SWEEP  
  
11083.96ft: IN TALLY: HOLE DEPTH  
SET TO 11087.1  
11087.11ft: HOOK LOAD HIGH  
RECALIBRATED  
11087.11ft: SURVEY @ 11032' INC  
0.4 AZI 263.7  
11087.11ft: IN 57/10.3/9.4 OUT 10.1  
Connection at 11087.1  
  
11105.81ft: ZDiffPressure from  
SideKick sk-04-09-0961  
11105.81ft: ZWOB from SideKick  
sk-04-09-0961  
11105.81ft: ROTATING IN 61/10.3/9.4  
OUT 10.25  
11105.81ft: PUMPED SWEEP

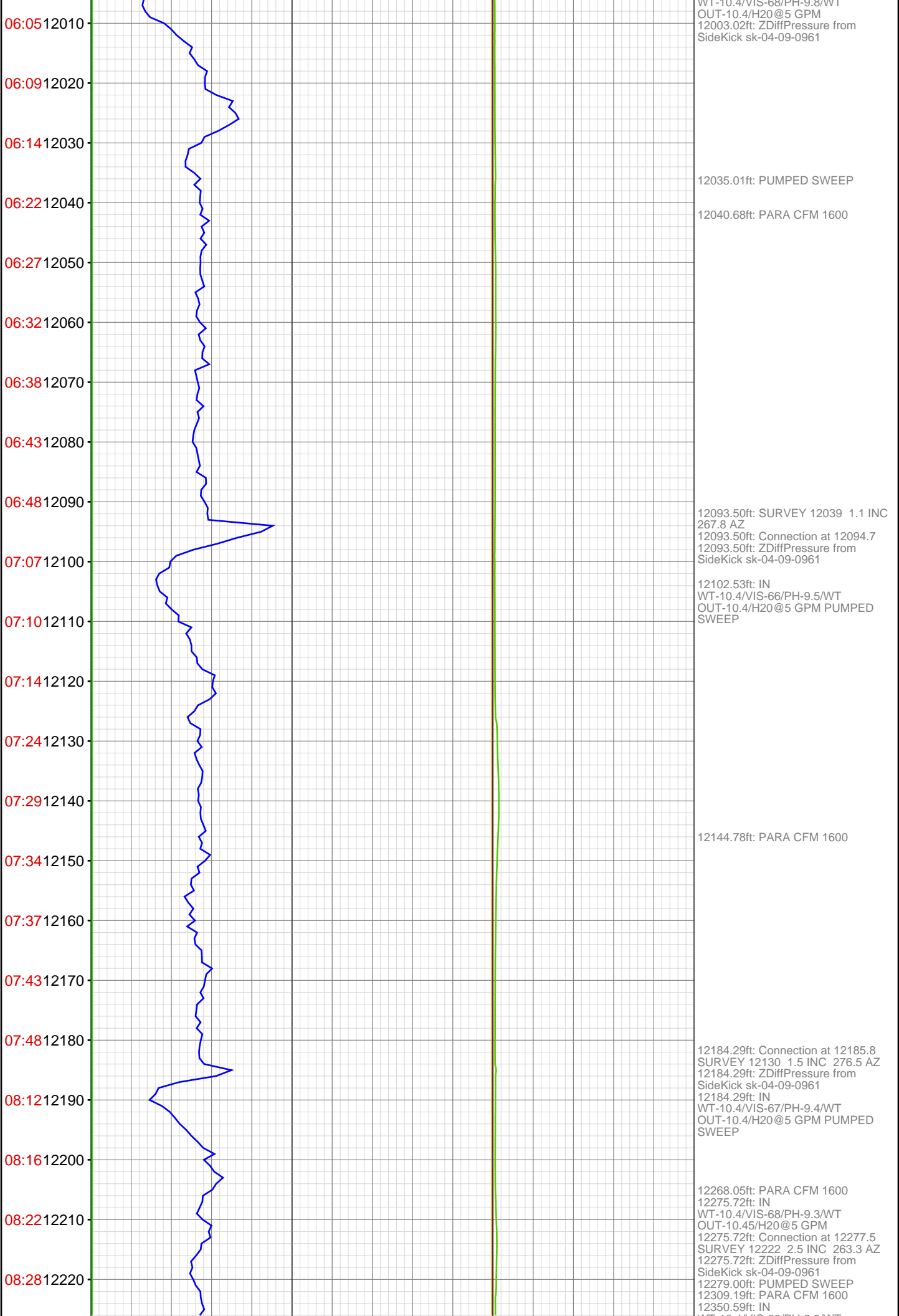


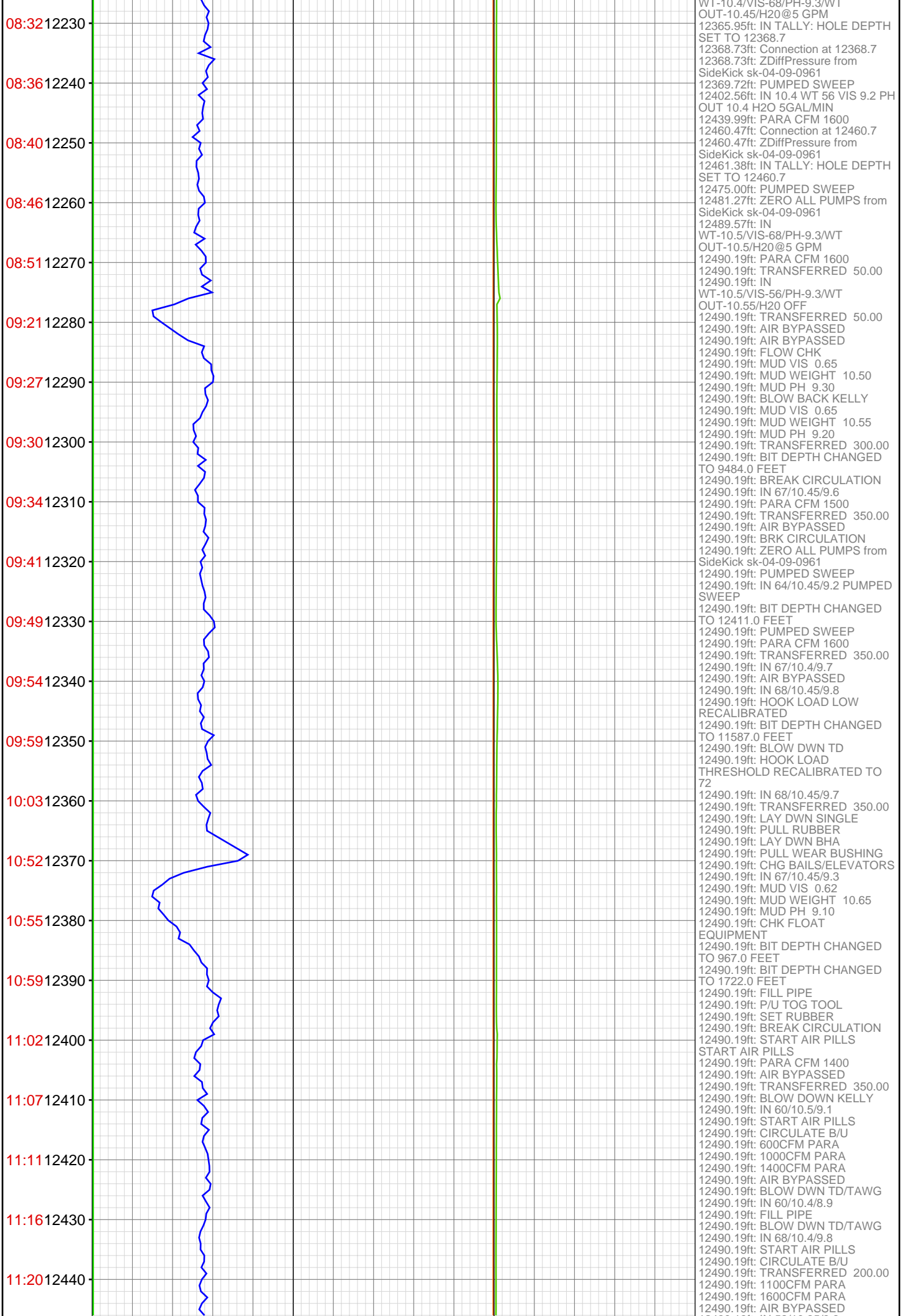












11:24 12450

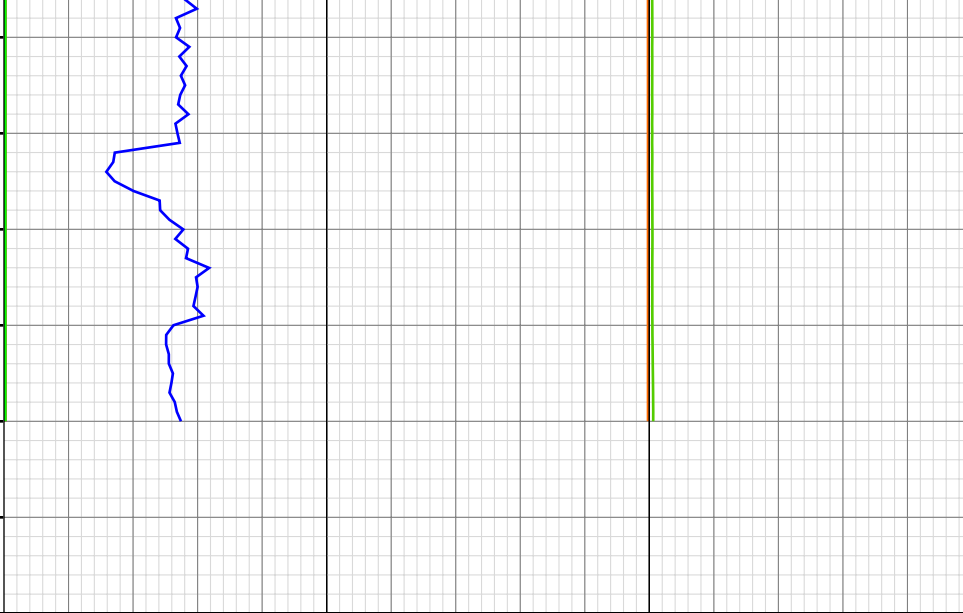
11:28 12460

11:54 12470

12:00 12480

12490

12500



12490.19ft: IN 58/10.35/9.3  
12490.19ft: ZERO ALL PUMPS from  
SideKick sk-04-09-0961  
12490.19ft: START AIR PILLS  
12490.19ft: 1200CFM PARA  
12490.19ft: 1600CFM PARA  
12490.19ft: IN 56/10.3/9.4  
12490.19ft: BIT DEPTH CHANGED  
TO 12044.0 FEET  
12490.19ft: 1500CFM PARA  
12490.19ft: ZERO ALL PUMPS from  
SideKick sk-04-09-0961  
12490.19ft: IN 45/10.3/9.2  
12490.19ft: AIR BYPASSED  
12490.19ft: START AIR PILLS  
12490.19ft: PVT:Flow alarm  
reactivated: un-muted  
12490.19ft: PVT:Flow alarm muted  
12490.19ft: PARA CFM 1000  
12490.19ft: PARA CFM 1400  
12490.19ft: TEST LEL  
12490.19ft: HGAS\_020: SUB Low  
LEL Alarm  
12490.19ft: HGAS\_021: SUB High  
LEL Alarm  
12490.19ft: HGAS\_004: Horn Muted  
12490.19ft: PARA CFM 1300  
12490.19ft: PVT:Volume alarm muted  
12490.19ft: PARA CFM 1100  
12490.19ft: PARA CFM 900  
12490.19ft: AIR BYPASSED  
12490.19ft: PVT:Volume alarm  
reactivated: un-muted