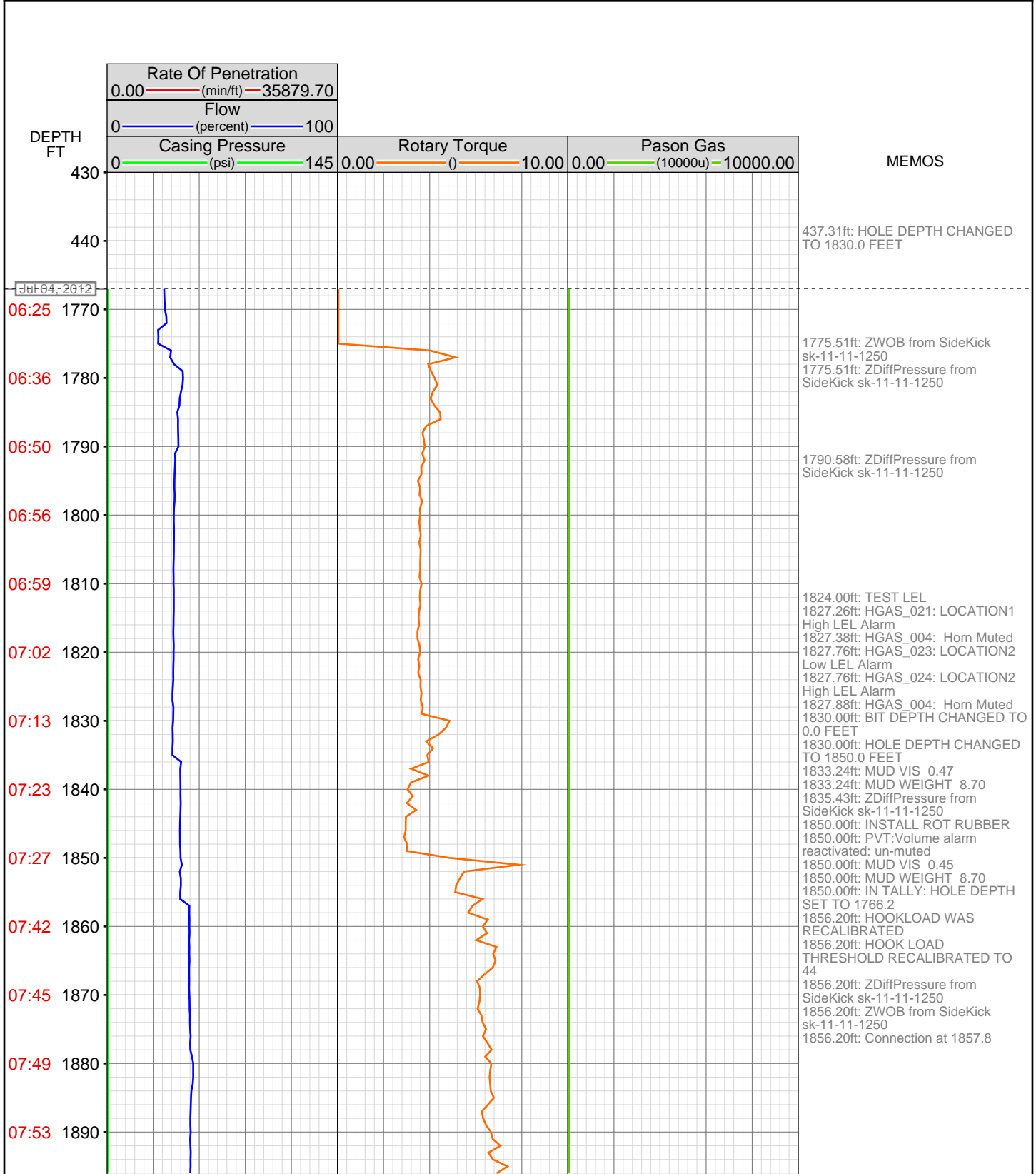


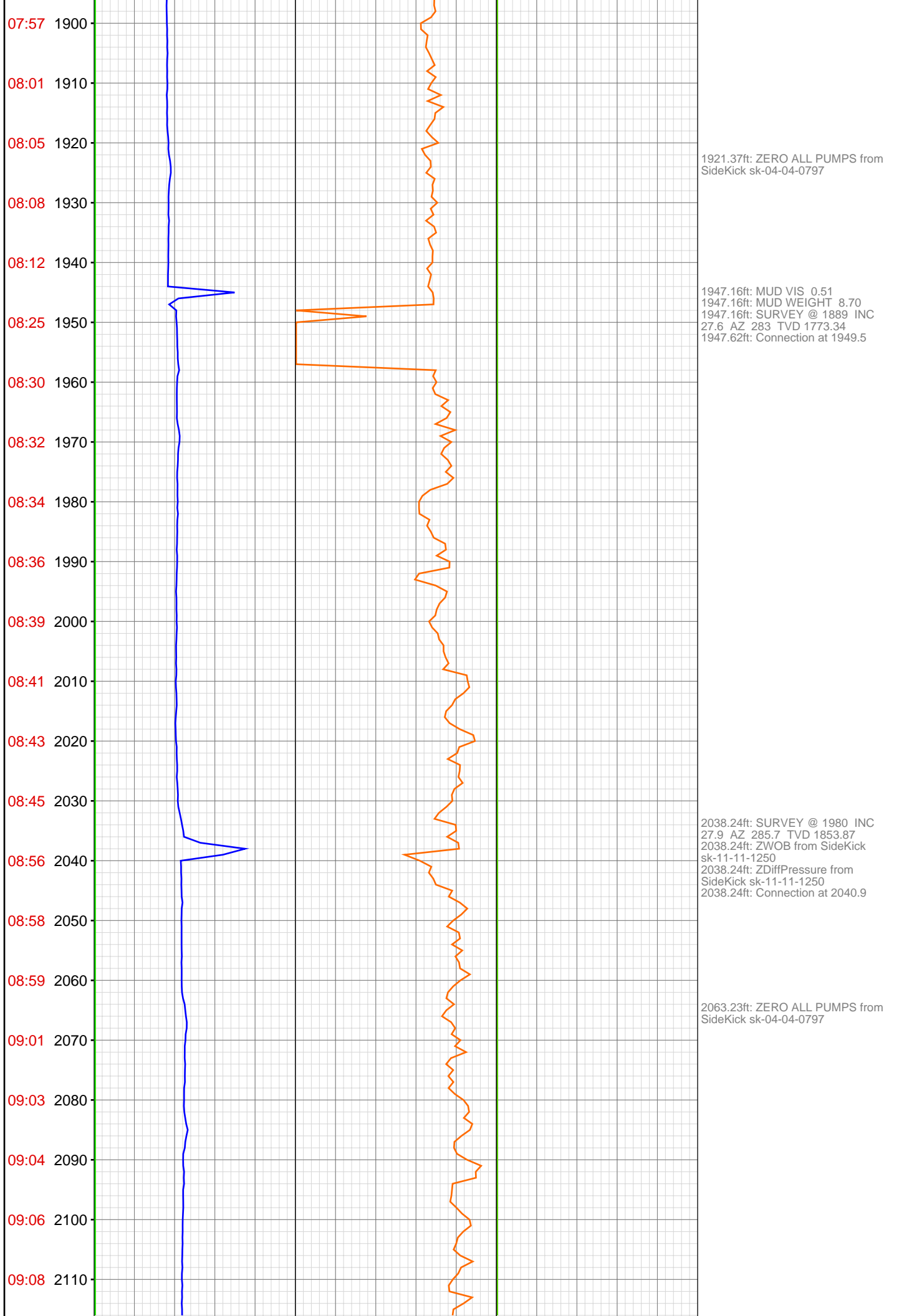
# DataHub EDR Log

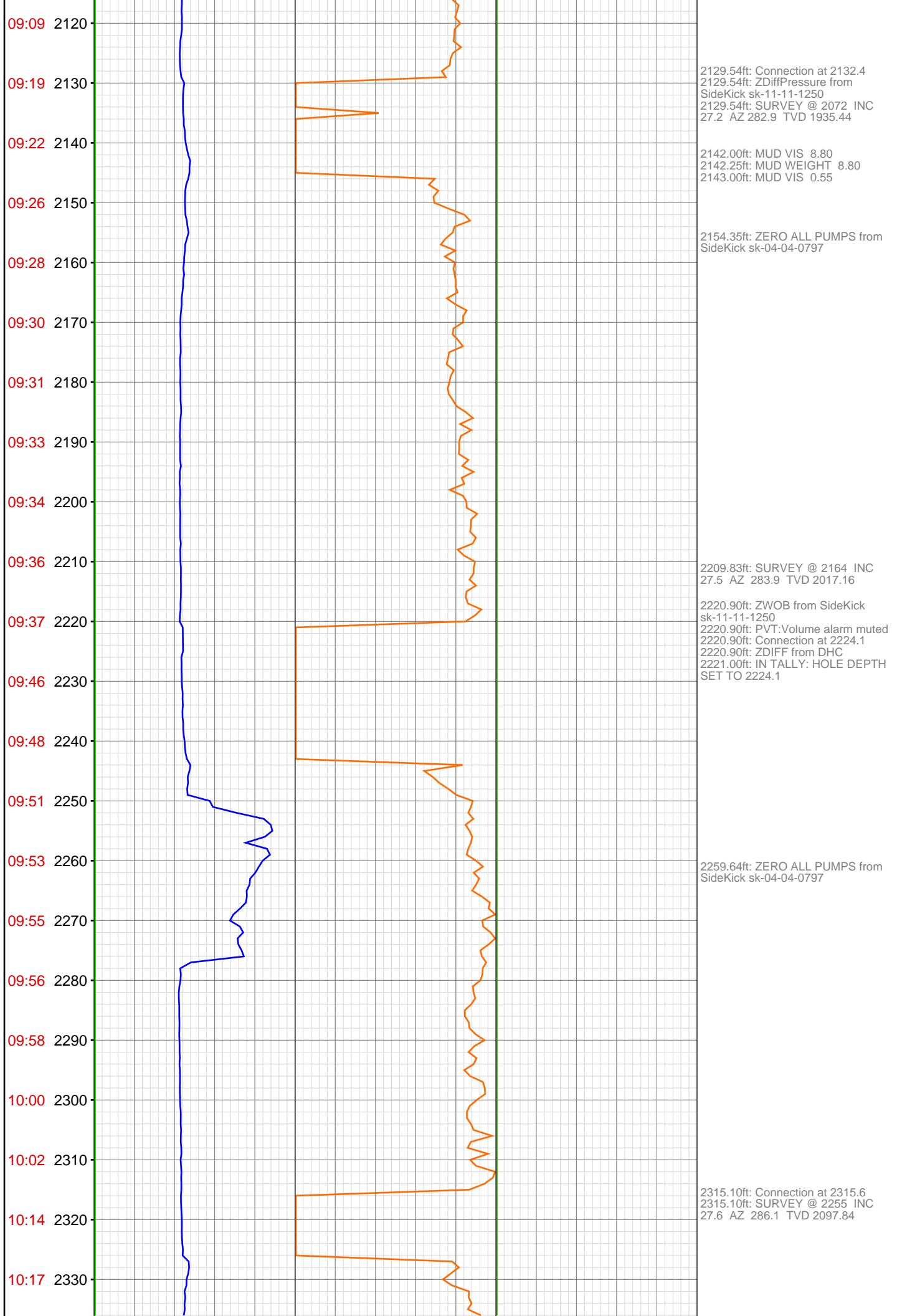
Mon Jul 09, 2012 11:38:16  
Well Dossier 1341232499  
Marilyn Tucker

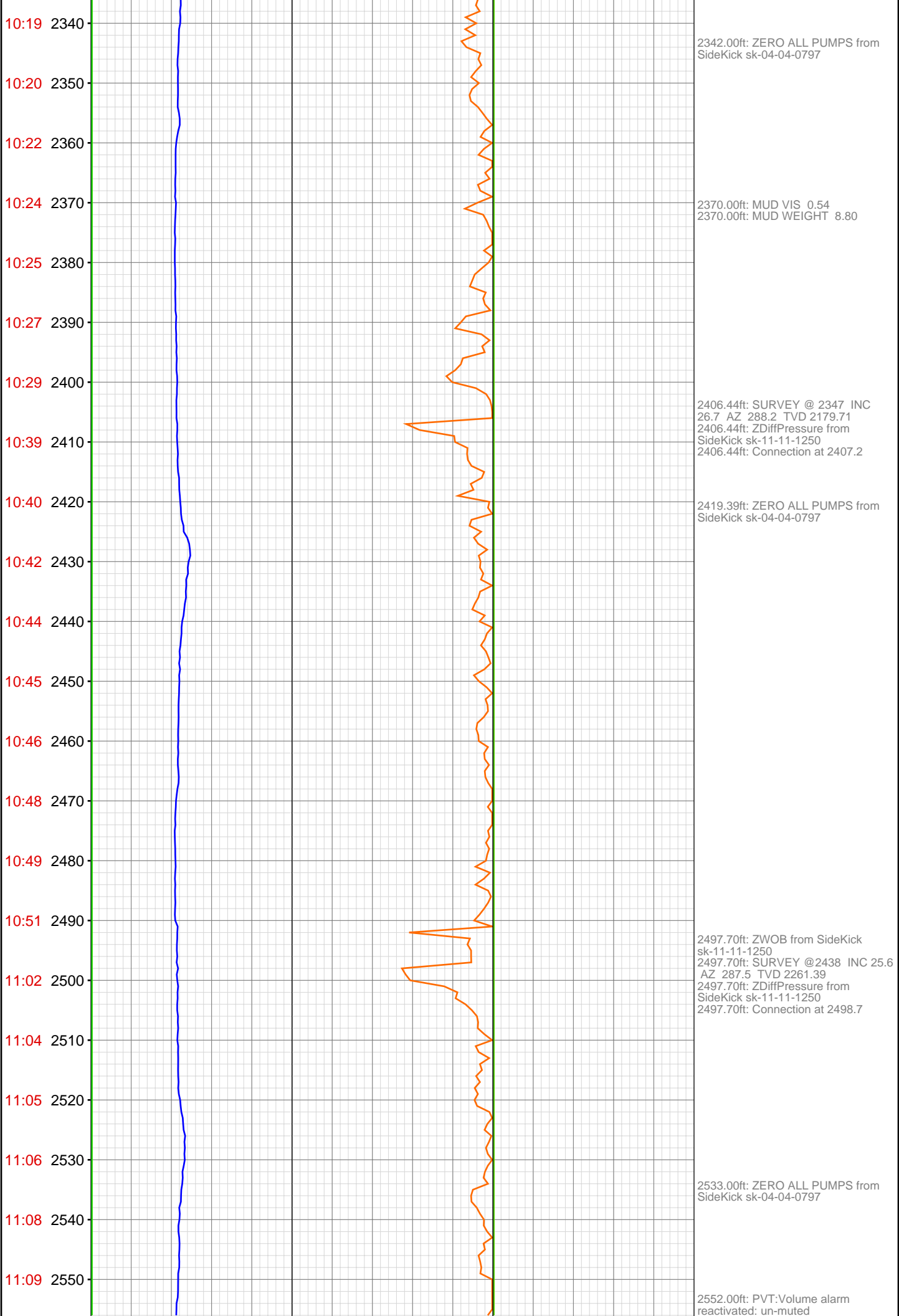
**OPERATOR:** EnCana Oil & Gas (USA), Inc.  
**WELL:** NP EF 11F-27 P27 595  
**FIELD:**  
**LOCATION:**  
**COUNTRY:** USA  
**RIG:** Pat-UTI 303

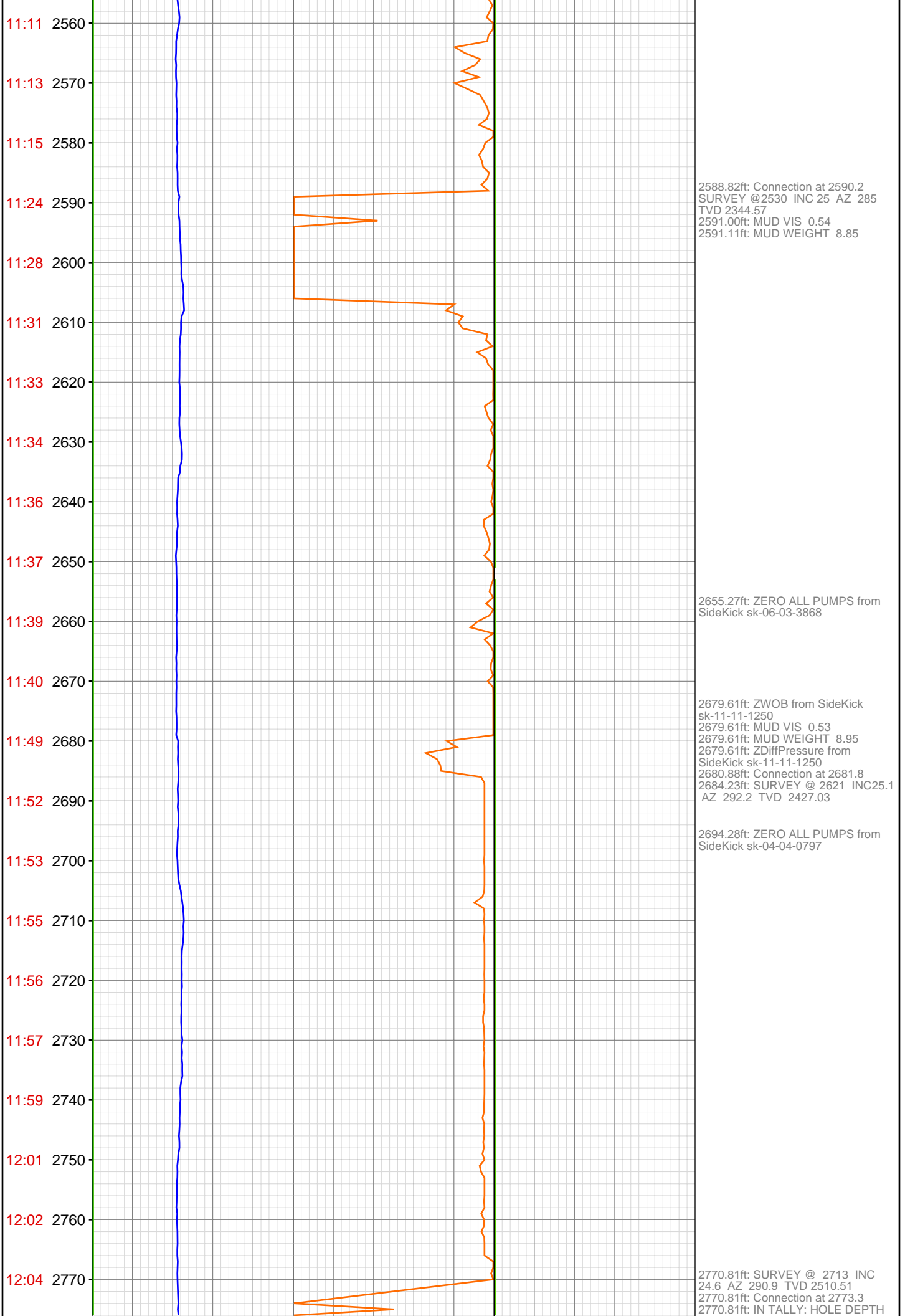
**CONTRACTOR:** Patterson-UTI Drilling Company  
**UNIQUE WELL ID:** 05 045 20286 00  
**SPUD DATE:** Jul 04, 2012 07:30  
**RELEASE DATE:**











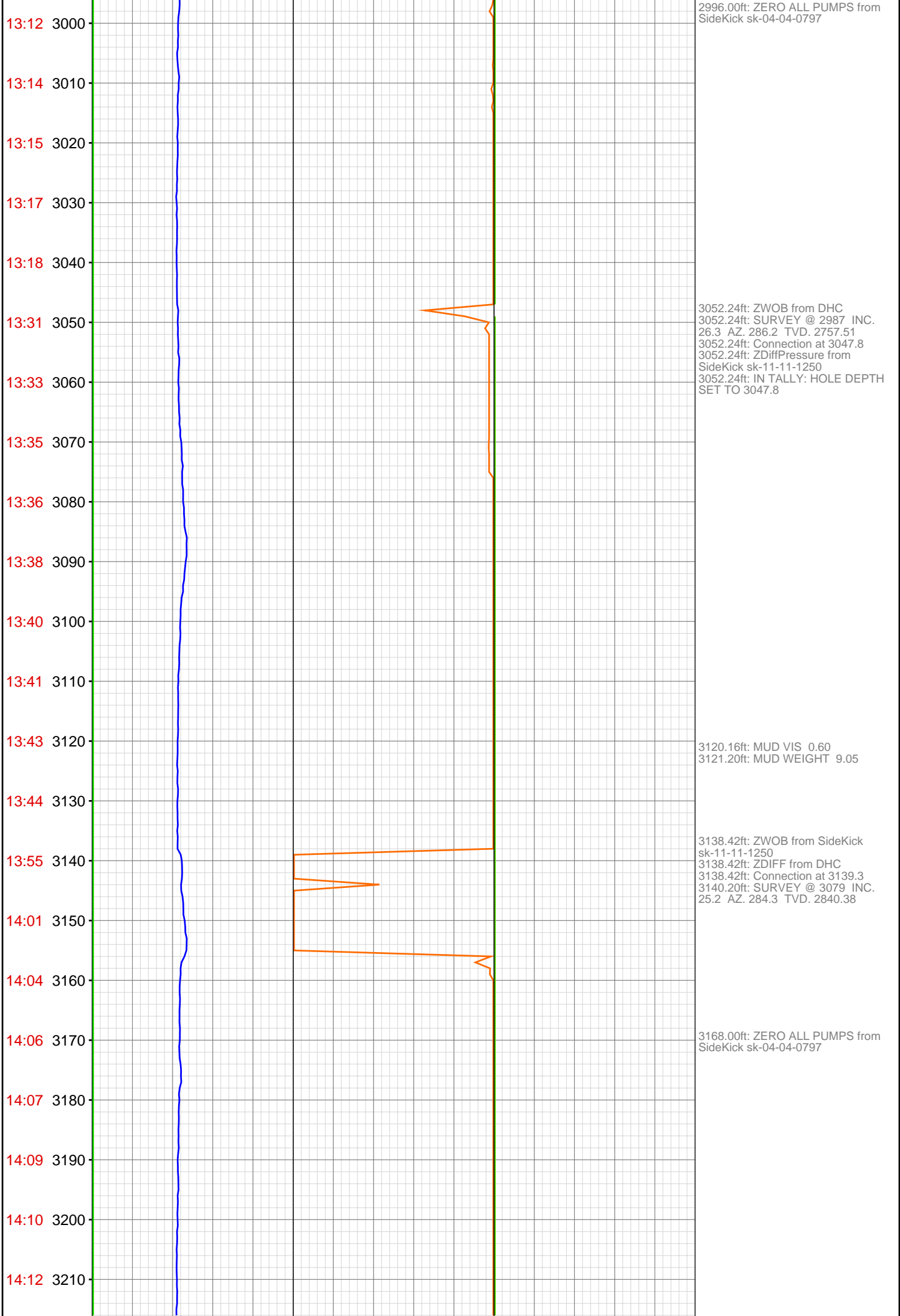
SET TO 2773.3

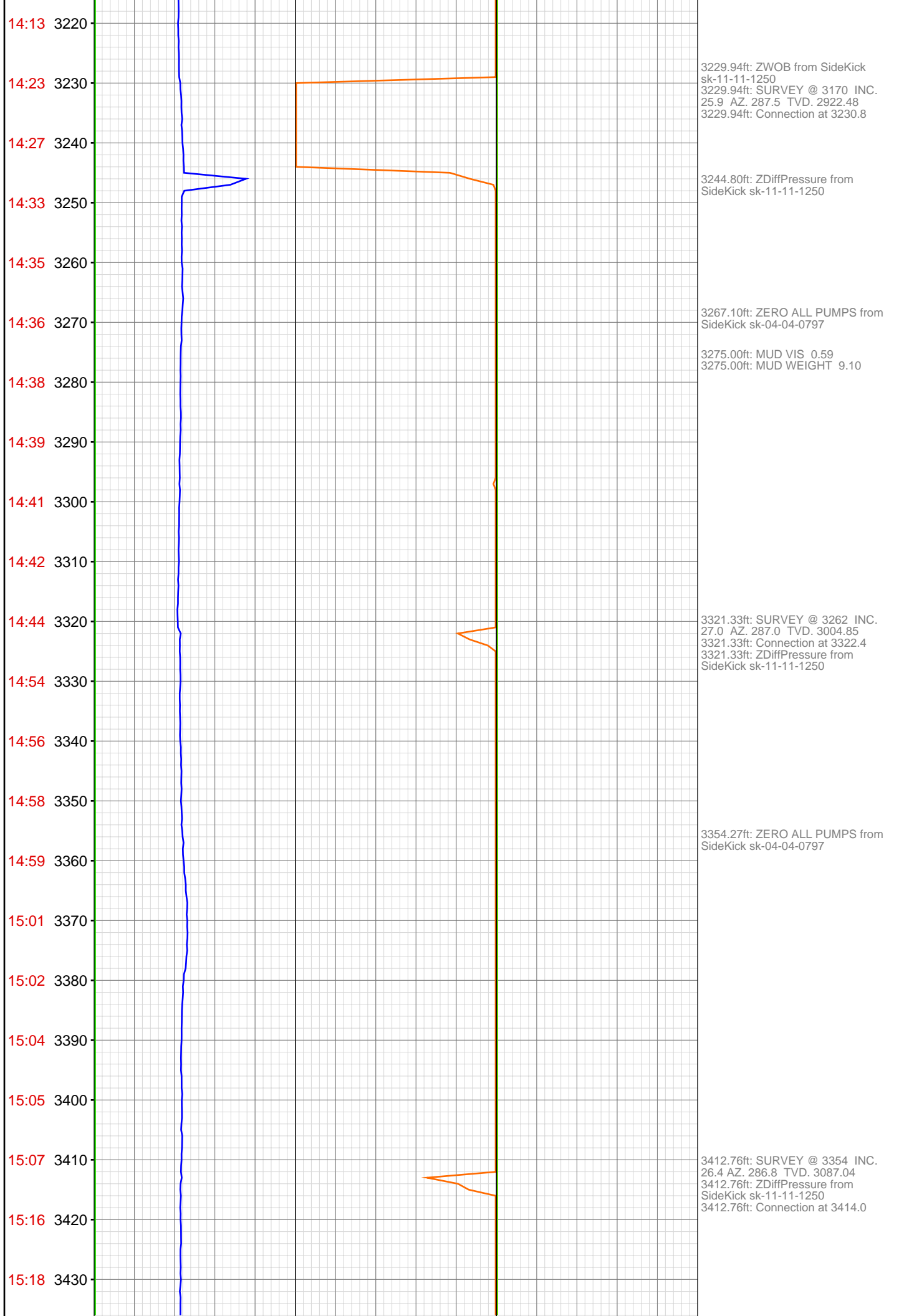
12:14 2780  
12:18 2790  
12:19 2800  
12:21 2810  
12:22 2820  
12:24 2830  
12:26 2840  
12:27 2850  
12:29 2860  
12:39 2870  
12:41 2880  
12:42 2890  
12:44 2900  
12:45 2910  
12:47 2920  
12:48 2930  
12:50 2940  
12:51 2950  
13:01 2960  
13:06 2970  
13:09 2980  
13:11 2990

2816.25ft: ZERO ALL PUMPS from  
SideKick sk-04-04-0797

2864.68ft: SURVEY @ 2804 INC  
25.8 AZ 289 TVD 2592.85  
2864.68ft: Connection at 2864.8  
2866.37ft: ZERO ALL PUMPS from  
SideKick sk-04-04-0797

2956.24ft: ZWOB from DHC  
2958.81ft: MUD VIS 0.55  
2958.81ft: Connection at 2956.3  
2958.81ft: MUD WEIGHT 9.00  
2958.81ft: ZDiffPressure from  
SideKick sk-11-11-1250  
2962.43ft: SURVEY @ 2896 INC  
25.7 AZ 290.5 TVD 2675.72







15:20 3440  
15:21 3450  
15:23 3460  
15:24 3470  
15:26 3480  
15:27 3490  
15:28 3500  
15:40 3510  
15:43 3520  
15:46 3530  
15:47 3540  
15:49 3550  
15:50 3560  
15:52 3570  
15:54 3580  
15:56 3590  
16:05 3600  
16:07 3610  
16:08 3620  
16:10 3630  
16:11 3640  
16:12 3650

3446.06ft: ZERO ALL PUMPS from SideKick sk-04-04-0797

3504.33ft: ZWOB from SideKick sk-11-11-1250  
3504.33ft: Connection at 3505.6 SURVEY @ 3445 INC. 25.8 AZ. 286.1 TVD. 3168.76  
3507.35ft: MUD VIS 0.58  
3507.35ft: MUD WEIGHT 9.20

3541.99ft: ZERO ALL PUMPS from SideKick sk-04-04-0797

3595.83ft: ZWOB from SideKick sk-11-11-1250  
3595.83ft: SURVEY @ 3537 INC. 27.5 AZ. 289.3 TVD. 3250.99  
3595.83ft: ZDiffPressure from SideKick sk-11-11-1250  
3595.83ft: Connection at 3597.1

3618.93ft: ZERO ALL PUMPS from SideKick sk-04-04-0797

16:14 3660  
16:15 3670  
16:17 3680  
16:28 3690  
16:33 3700  
16:36 3710  
16:38 3720  
16:40 3730  
16:41 3740  
16:42 3750  
16:44 3760  
16:45 3770  
16:55 3780  
16:56 3790  
16:57 3800  
16:59 3810  
17:00 3820  
17:02 3830  
17:03 3840  
17:04 3850  
17:06 3860  
17:15 3870

3686.88ft: ZWOB from SideKick  
sk-11-11-1250  
3686.88ft: SURVEY @ 3628 INC.  
26.1 AZ. 288.6 TVD. 3332.21  
3686.88ft: Connection at 3688.7  
3686.88ft: ZDIFF from DHC

3737.99ft: ZERO ALL PUMPS from  
SideKick sk-04-04-0797

3778.02ft: MUD VIS 0.60  
3778.02ft: MUD WEIGHT 9.20  
3778.02ft: PVT:Volume alarm muted  
3778.02ft: SURVEY @ 3720 INC.  
28.2 AZ. 288.5 TVD. 3414.07  
3778.02ft: Connection at 3780.1  
3778.02ft: ZDiffPressure from  
SideKick sk-11-11-1250

3869.23ft: SURVEY @ 3811 INC.  
27.2 AZ. 286.7 TVD. 3494.64  
Connection at 3871.5  
3869.23ft: ZDiffPressure from  
SideKick sk-11-11-1250

17:17 3880  
17:18 3890  
17:19 3900  
17:21 3910  
17:22 3920  
17:24 3930  
17:25 3940  
17:26 3950  
17:28 3960  
17:44 3970  
17:48 3980  
17:50 3990  
17:51 4000  
17:52 4010  
17:54 4020  
17:55 4030  
17:57 4040  
17:58 4050  
18:09 4060  
18:11 4070  
18:13 4080  
18:14 4090

3904.00ft: ZERO ALL PUMPS from  
SideKick sk-04-04-0797

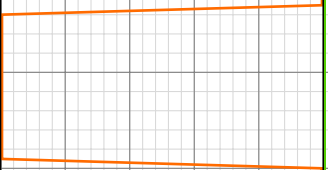
3960.63ft: BOP DRILL  
3960.63ft: Connection at 3963.0  
3961.45ft: SURVEY @ 3903 INC.  
26.1 AZ. 287.6 TVD. 3576.87  
3963.78ft: MUD VIS 0.60  
3964.07ft: MUD WEIGHT 9.30

4029.00ft: PVT:Flow and volume  
alarm reactivated: un-muted

4051.90ft: ZWOB from SideKick  
sk-11-11-1250  
4051.90ft: Connection at 4054.8  
4051.90ft: SURVEY @ 3994 INC.  
27.8 AZ. 285.5 TVD. 3657.98  
4051.90ft: PVT:Flow alarm muted  
4051.90ft: ZDiffPressure from  
SideKick sk-11-11-1250  
4054.99ft: MUD VIS 0.59  
4056.00ft: MUD WEIGHT 9.30

4071.19ft: ZERO ALL PUMPS from  
SideKick sk-06-03-3868

18:16 4100  
18:18 4110  
18:19 4120  
18:21 4130  
18:23 4140  
18:37 4150  
18:39 4160  
18:41 4170  
18:43 4180  
18:44 4190  
18:46 4200  
18:48 4210  
18:49 4220  
18:51 4230  
19:03 4240  
19:08 4250  
19:10 4260  
19:12 4270  
19:14 4280  
19:15 4290  
19:17 4300  
19:19 4310



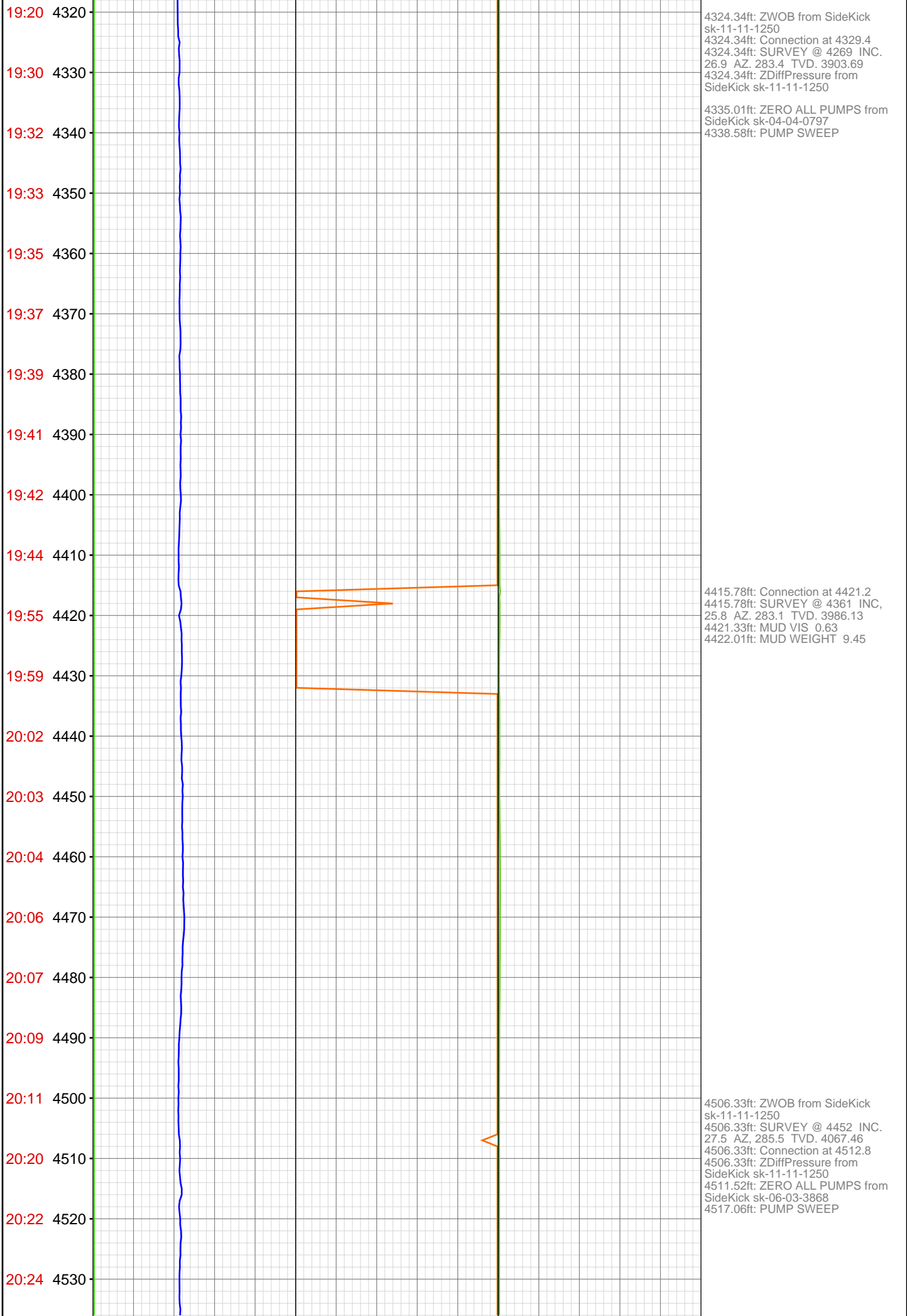
4143.31ft: Connection at 4146.3  
4143.31ft: SURVEY @ 086 INC. 26.9  
AZ. 283.0 TVD. 3739.70  
4143.31ft: SURVEY 4086

4156.14ft: PUMP SWEEP

4162.01ft: ZERO ALL PUMPS from  
SideKick sk-06-03-3868

4233.40ft: C/ C-O-M  
4233.40ft: Connection at 4237.9  
4235.63ft: SURVEY @ 4177 INC.  
25.8 AZ. 285.2 TVD. 3821.25  
4236.52ft: MUD VIS 0.60  
4236.81ft: MUD WEIGHT 9.40  
4241.99ft: PUMP SWEEP

4265.81ft: ZERO ALL PUMPS from  
SideKick sk-06-03-3868



20:25 4540

20:27 4550

20:29 4560

20:31 4570

20:32 4580

20:34 4590

20:42 4600

20:45 4610

20:52 4620

20:57 4630

20:58 4640

21:00 4650

21:02 4660

21:04 4670

21:06 4680

21:08 4690

21:18 4700

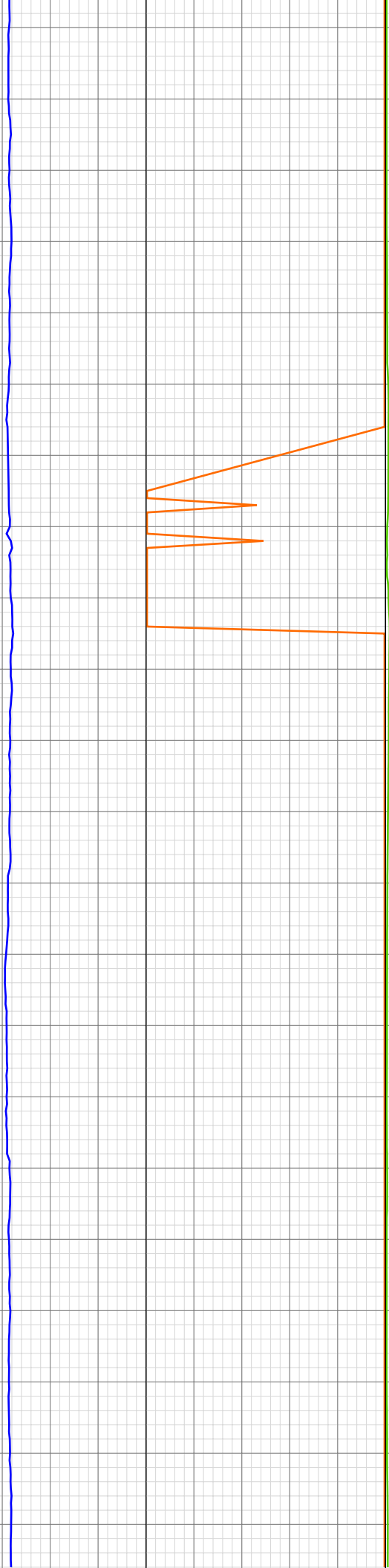
21:21 4710

21:23 4720

21:25 4730

21:27 4740

21:28 4750



4596.42ft: Connection at 4604.3  
4596.42ft: IN TALLY: HOLE DEPTH  
SET TO 4604.3

4609.48ft: SURVEY @ 4544 INC.  
26.1 AZ. 285.5 TVD. 4149.58

4631.99ft: ZERO ALL PUMPS from  
SideKick sk-06-03-3868  
4635.96ft: PUMP SWEEP

4698.03ft: MUD VIS 0.64  
4698.03ft: MUD WEIGHT 9.50  
4698.03ft: ZWOB from DHC  
4698.03ft: Connection at 4695.8  
4698.03ft: SURVEY @ 4635 INC.  
27.2 AZ. 289.3 TVD. 4230.91  
4698.03ft: ZDiffPressure from  
SideKick sk-11-11-1250  
4704.99ft: ZERO ALL PUMPS from  
SideKick sk-04-04-0797  
4705.32ft: PUMP SWEEP

21:30 4760  
21:32 4770  
21:34 4780  
21:45 4790  
21:50 4800  
21:55 4810  
21:57 4820  
21:59 4830  
22:00 4840  
22:02 4850  
22:03 4860  
22:05 4870  
22:15 4880  
22:17 4890  
22:19 4900  
22:20 4910  
22:22 4920  
22:25 4930  
22:26 4940  
22:28 4950  
22:30 4960  
22:31 4970

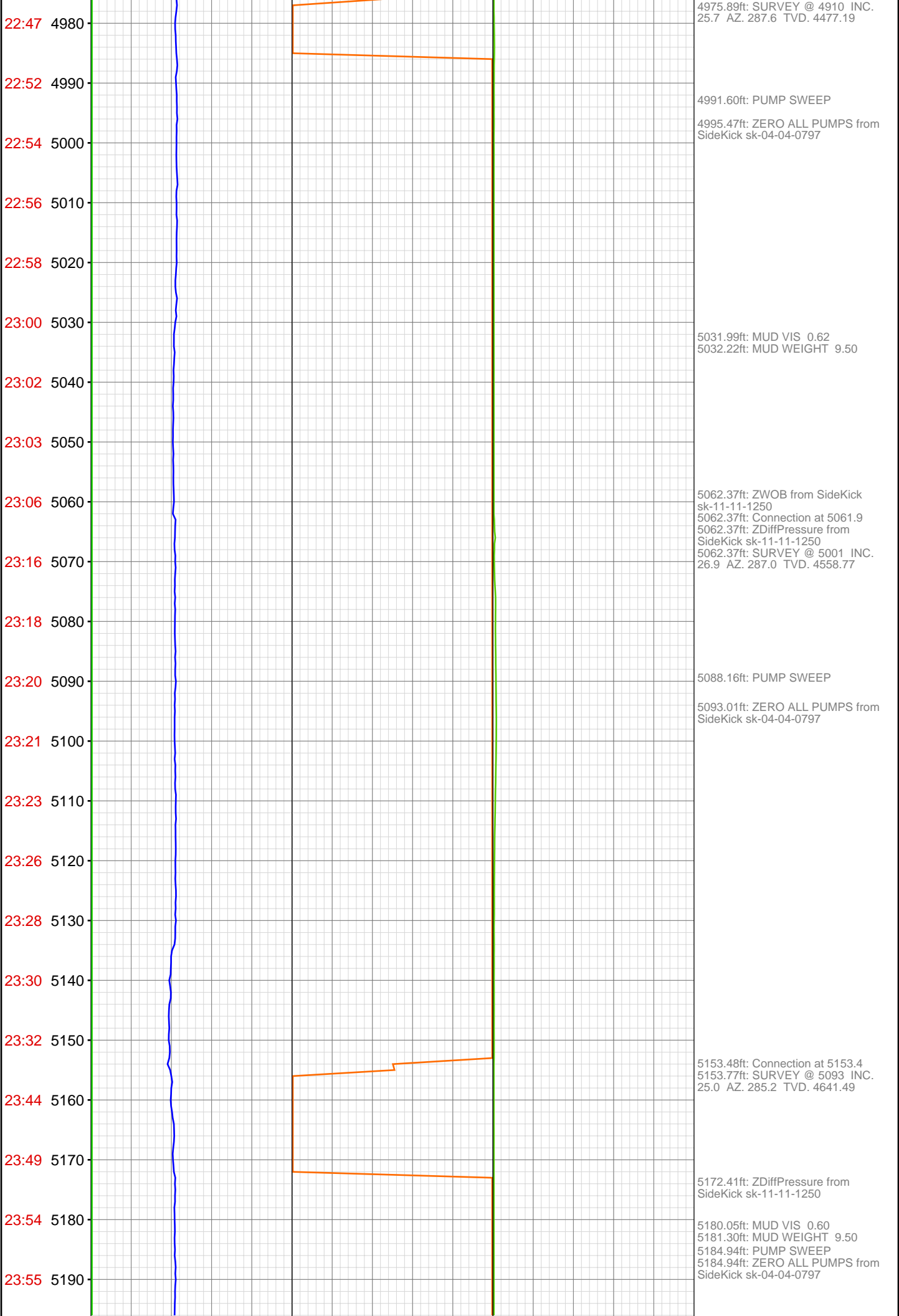
4789.21ft: Connection at 4787.1  
SURVEY @ 4727 INC. 25.7 AZ,  
288.1 TVD. 4313.79

4824.70ft: PUMP SWEEP  
4825.59ft: ZERO ALL PUMPS from  
SideKick sk-04-04-0797

4839.01ft: MUD VIS 0.65  
4839.50ft: MUD WEIGHT 9.60

4880.09ft: Connection at 4878.7  
4880.09ft: ZDiffPressure from  
SideKick sk-11-11-1250  
4880.09ft: SURVEY @ 4818 INC.  
27.1 AZ. 288.9 TVD. 4394.79  
4883.69ft: PUMP SWEEP  
4884.42ft: ZERO ALL PUMPS from  
SideKick sk-04-04-0797

4971.13ft: ZWOB from SideKick  
sk-11-11-1250  
4971.13ft: Connection at 4970.4





23:57 5200

23:59 5210

Jul 05, 2012

00:01 5220

00:03 5230

00:05 5240

00:17 5250

00:26 5260

00:28 5270

00:30 5280

00:31 5290

00:33 5300

00:35 5310

00:36 5320

00:39 5330

00:51 5340

00:59 5350

01:06 5360

01:08 5370

01:09 5380

01:11 5390

01:13 5400

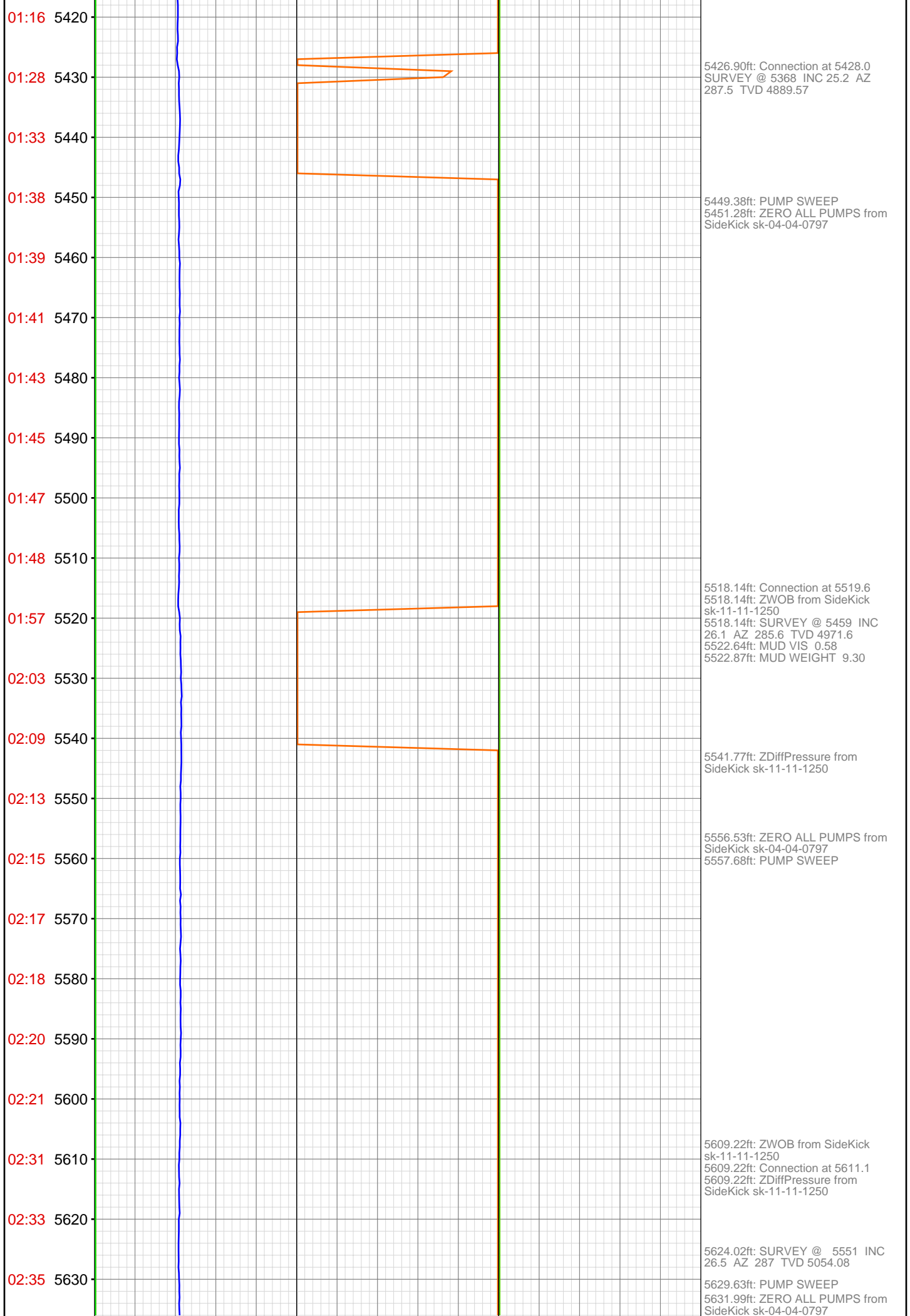
01:14 5410

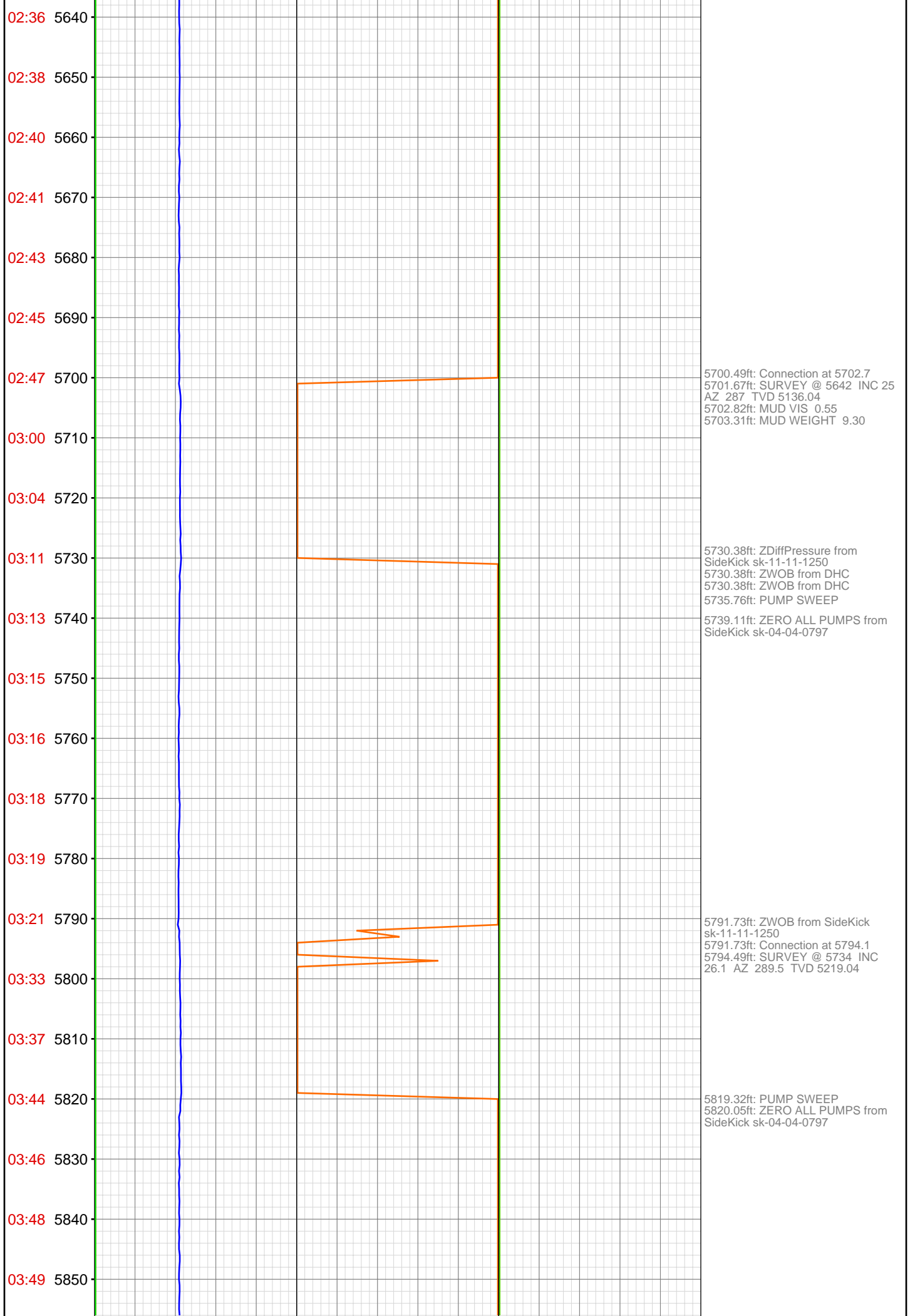
5244.65ft: ZWOB from SideKick  
sk-11-11-1250  
5244.65ft: Connection at 5244.8  
5245.05ft: SURVEY @ 5184 INC  
25.8 AZ 286.8 TVD 4723.7  
5250.33ft: SLIDING

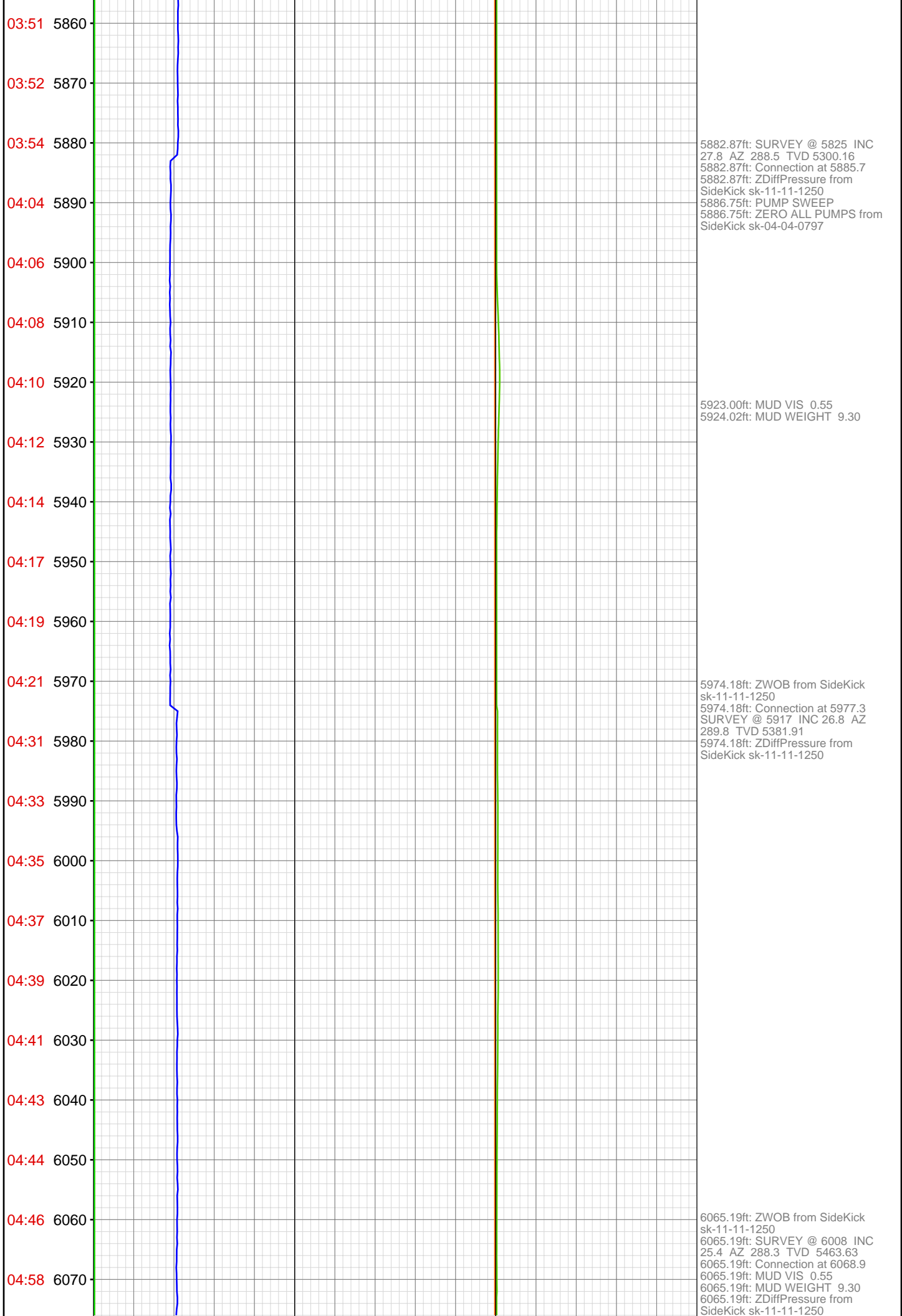
5256.50ft: ROTATING  
5257.12ft: ZDiffPressure from  
SideKick sk-11-11-1250

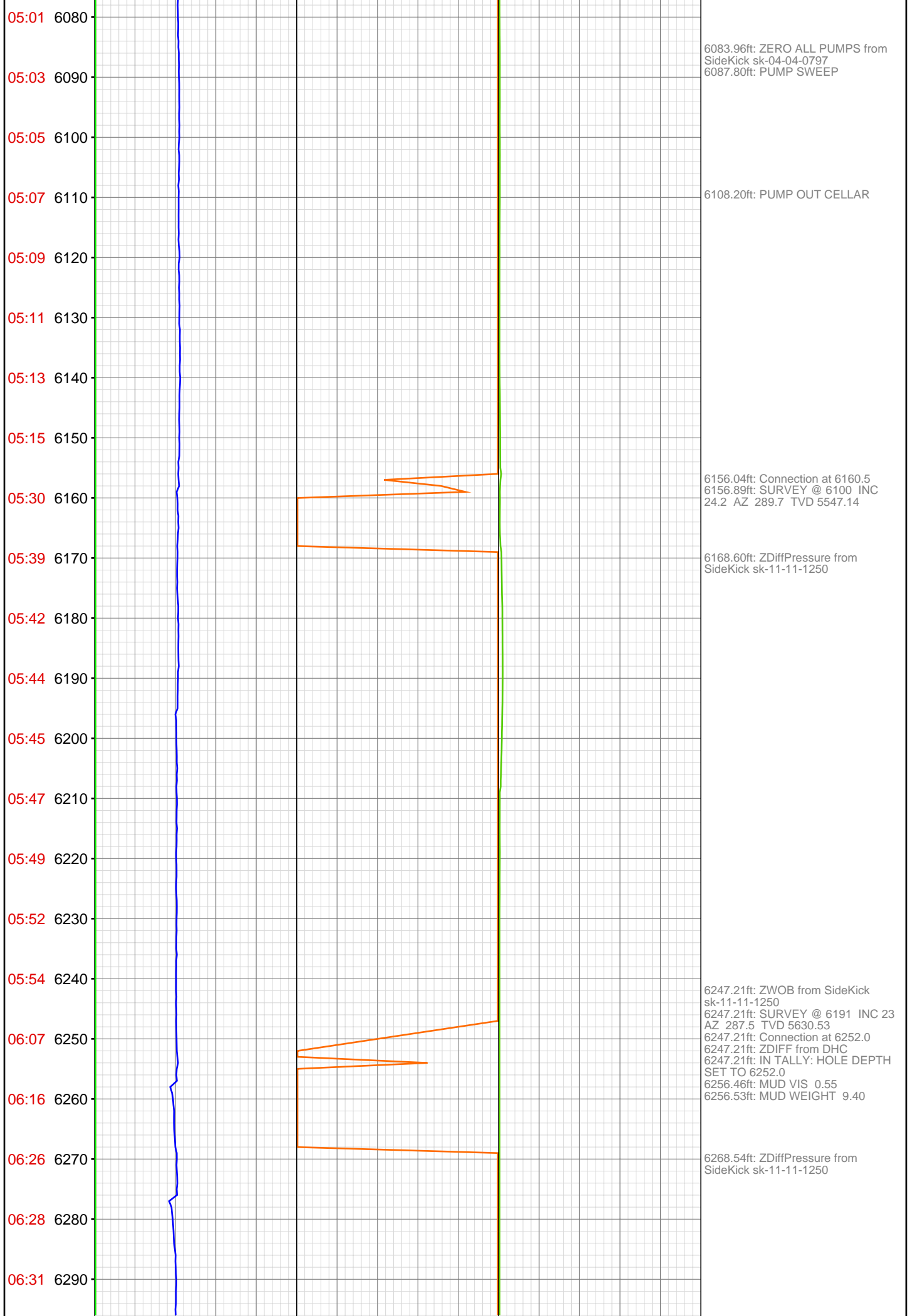
5335.83ft: Connection at 5336.4  
SURVEY @ 5276 INC 25.8 AZ  
288.2 TVD 4806.53

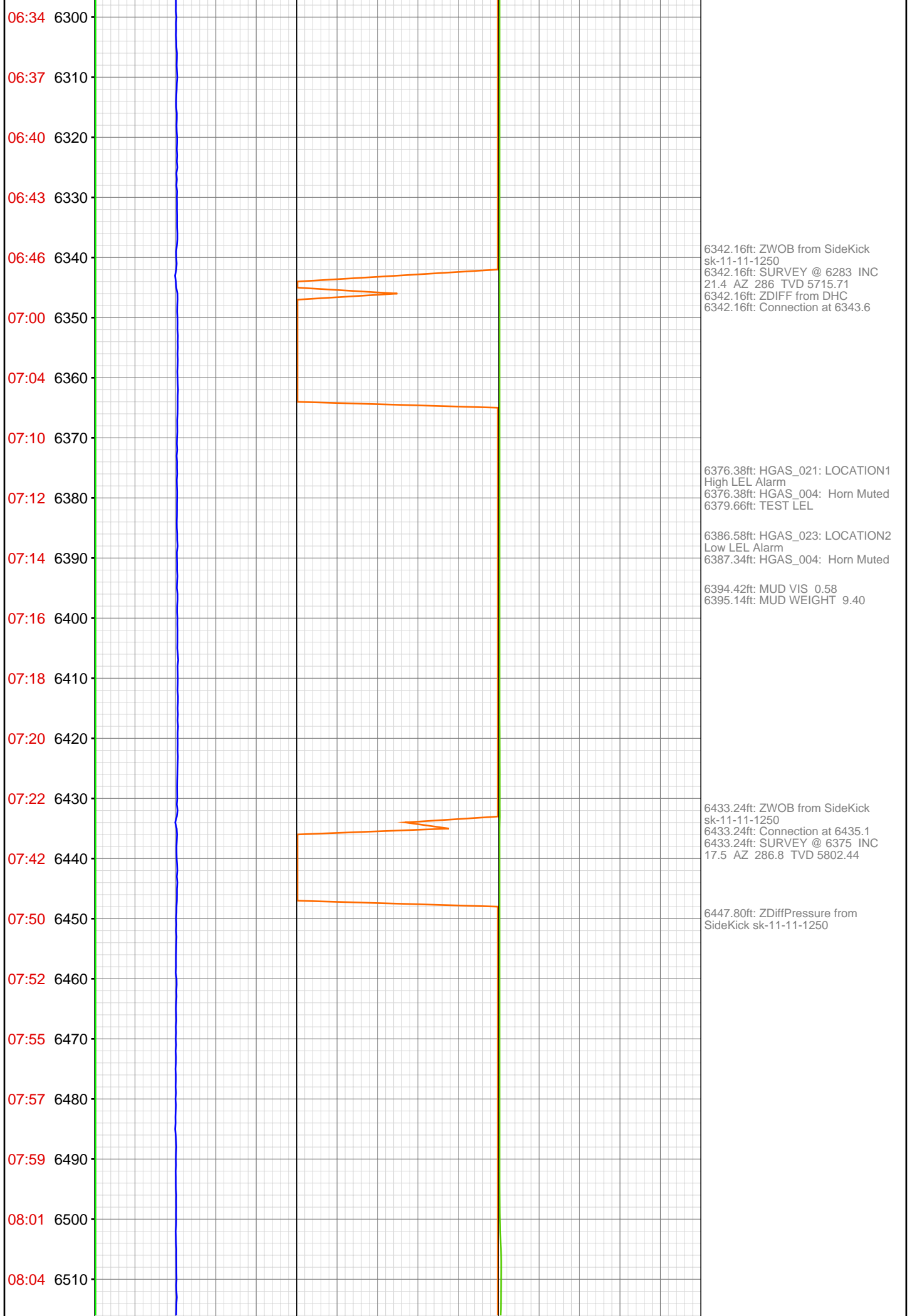
5356.43ft: ZDiffPressure from  
SideKick sk-11-11-1250  
5356.43ft: MUD VIS 0.58  
5356.43ft: MUD WEIGHT 9.30  
5356.82ft: PUMP SWEEP  
5357.25ft: ZERO ALL PUMPS from  
SideKick sk-04-04-0797











6342.16ft: ZWOB from SideKick  
sk-11-11-1250  
6342.16ft: SURVEY @ 6283 INC  
21.4 AZ 286 TVD 5715.71  
6342.16ft: ZDIFF from DHC  
6342.16ft: Connection at 6343.6

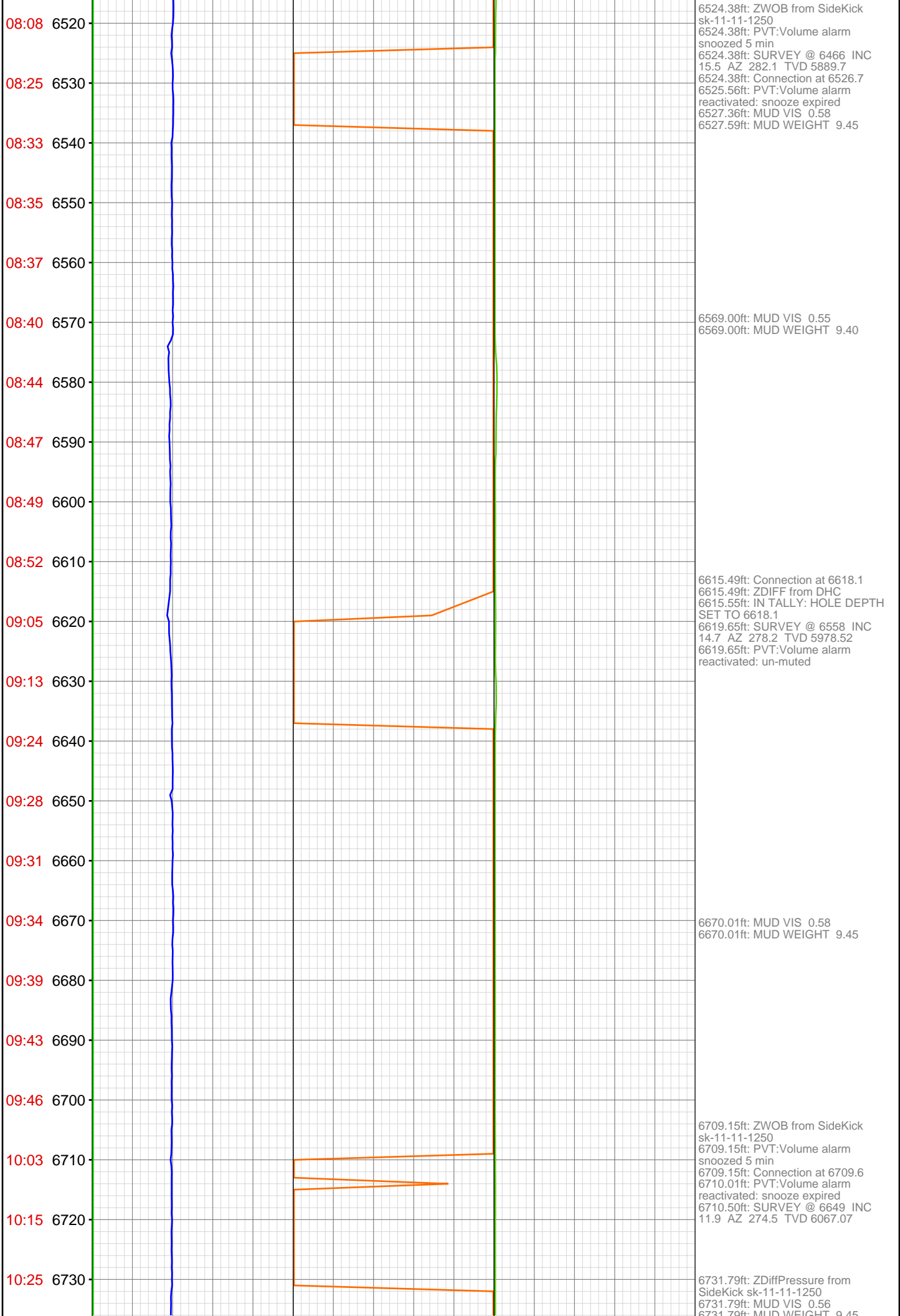
6376.38ft: HGAS\_021: LOCATION1  
High LEL Alarm  
6376.38ft: HGAS\_004: Horn Muted  
6379.66ft: TEST LEL

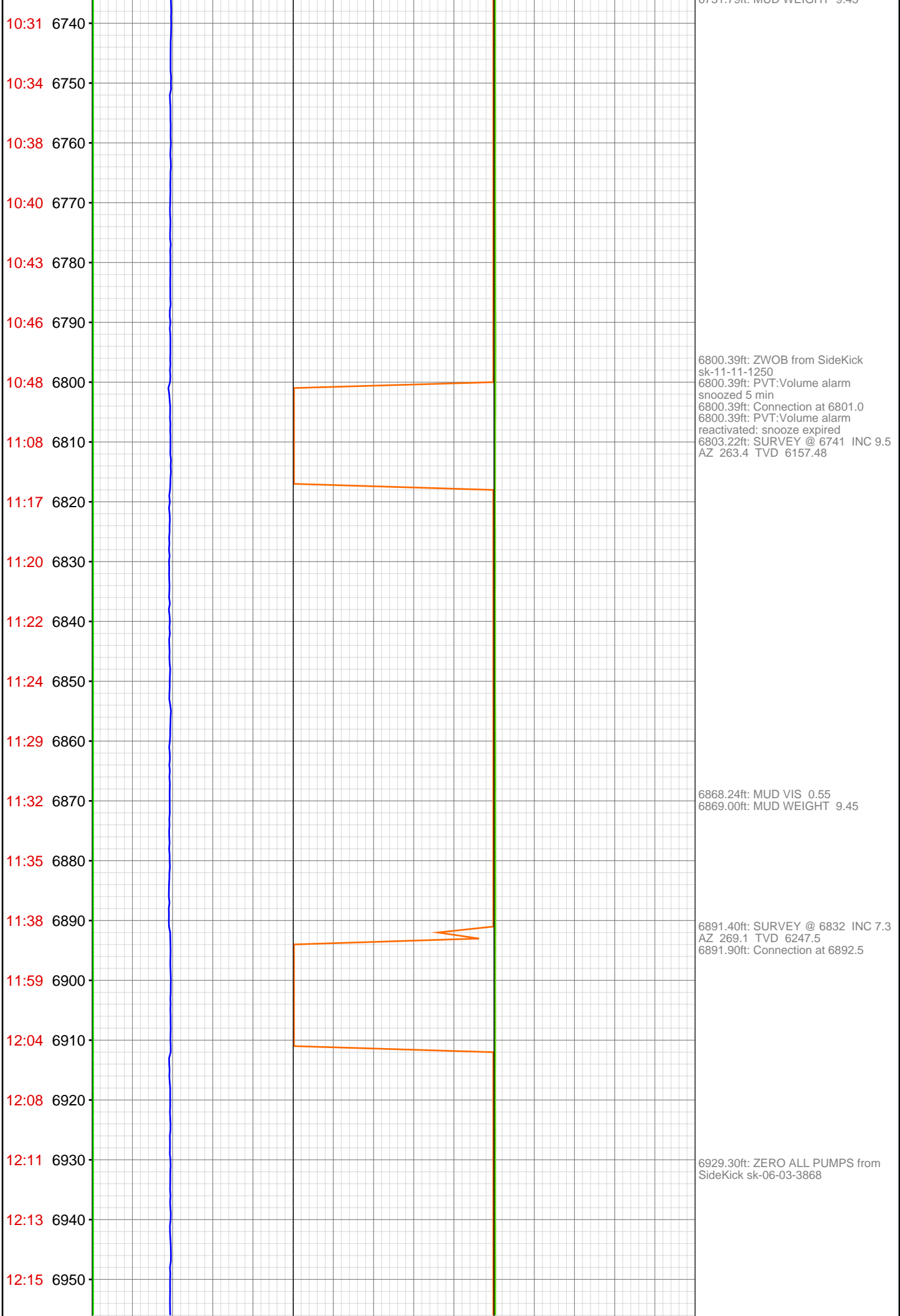
6386.58ft: HGAS\_023: LOCATION2  
Low LEL Alarm  
6387.34ft: HGAS\_004: Horn Muted

6394.42ft: MUD VIS 0.58  
6395.14ft: MUD WEIGHT 9.40

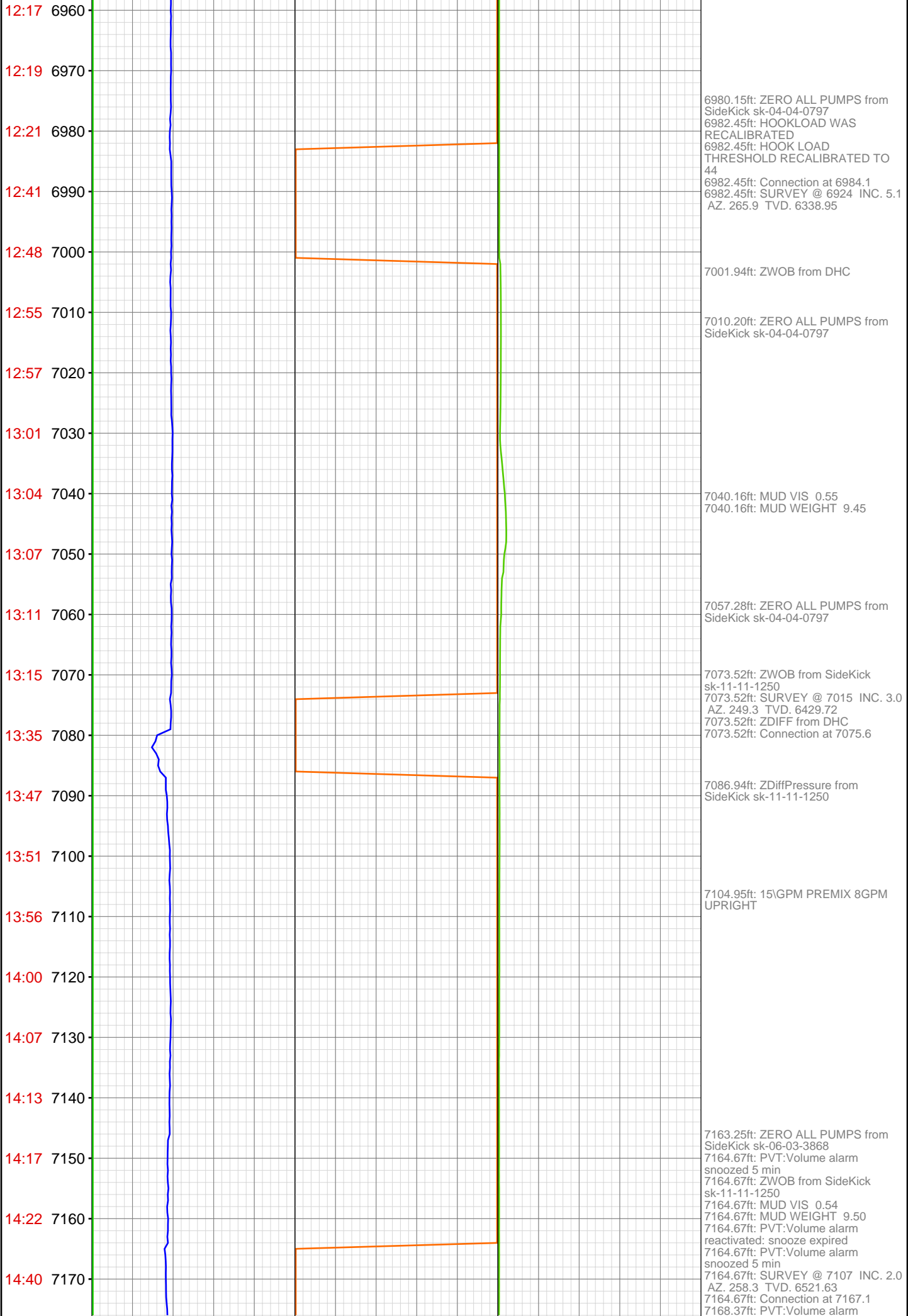
6433.24ft: ZWOB from SideKick  
sk-11-11-1250  
6433.24ft: Connection at 6435.1  
6433.24ft: SURVEY @ 6375 INC  
17.5 AZ 286.8 TVD 5802.44

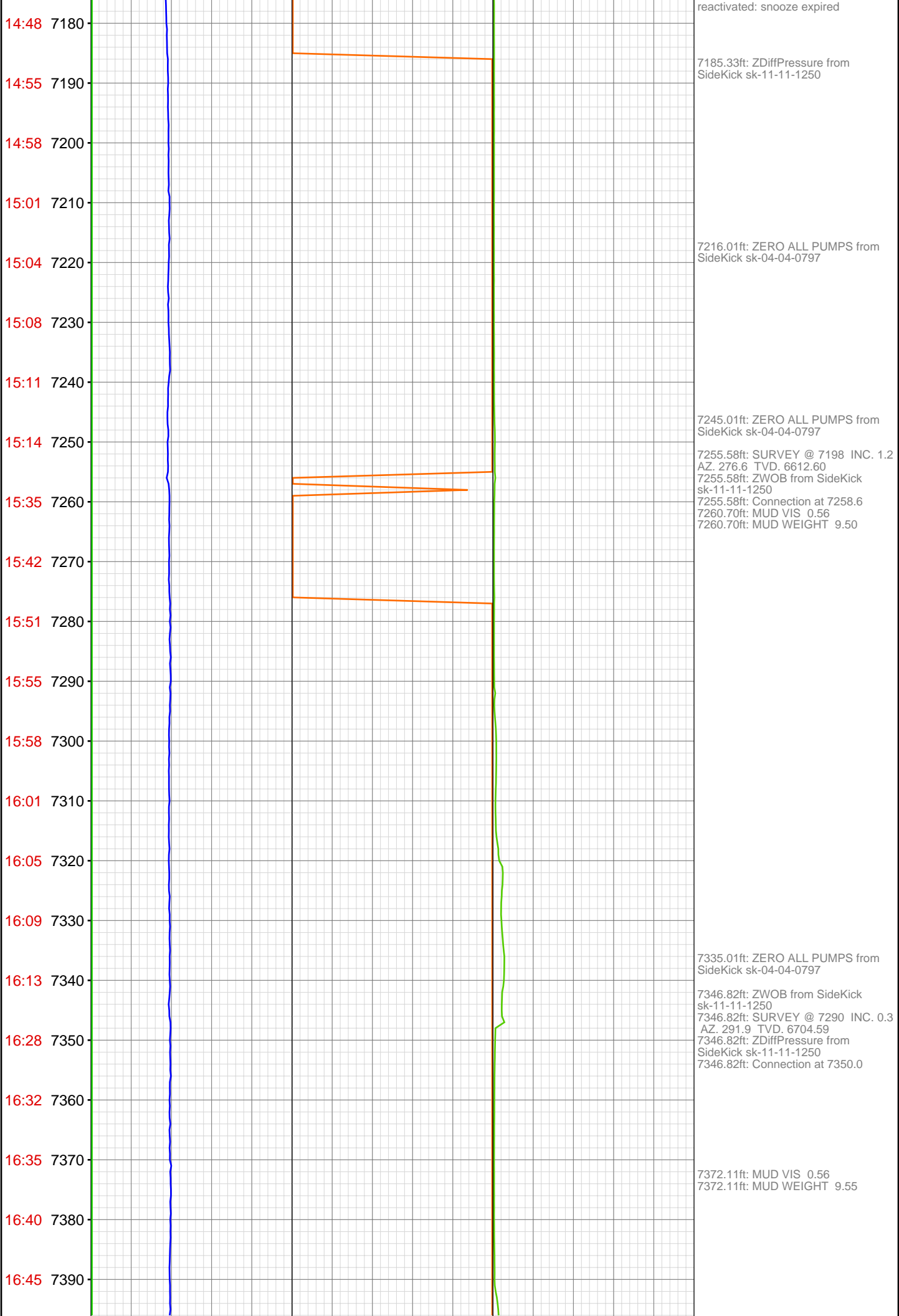
6447.80ft: ZDiffPressure from  
SideKick sk-11-11-1250











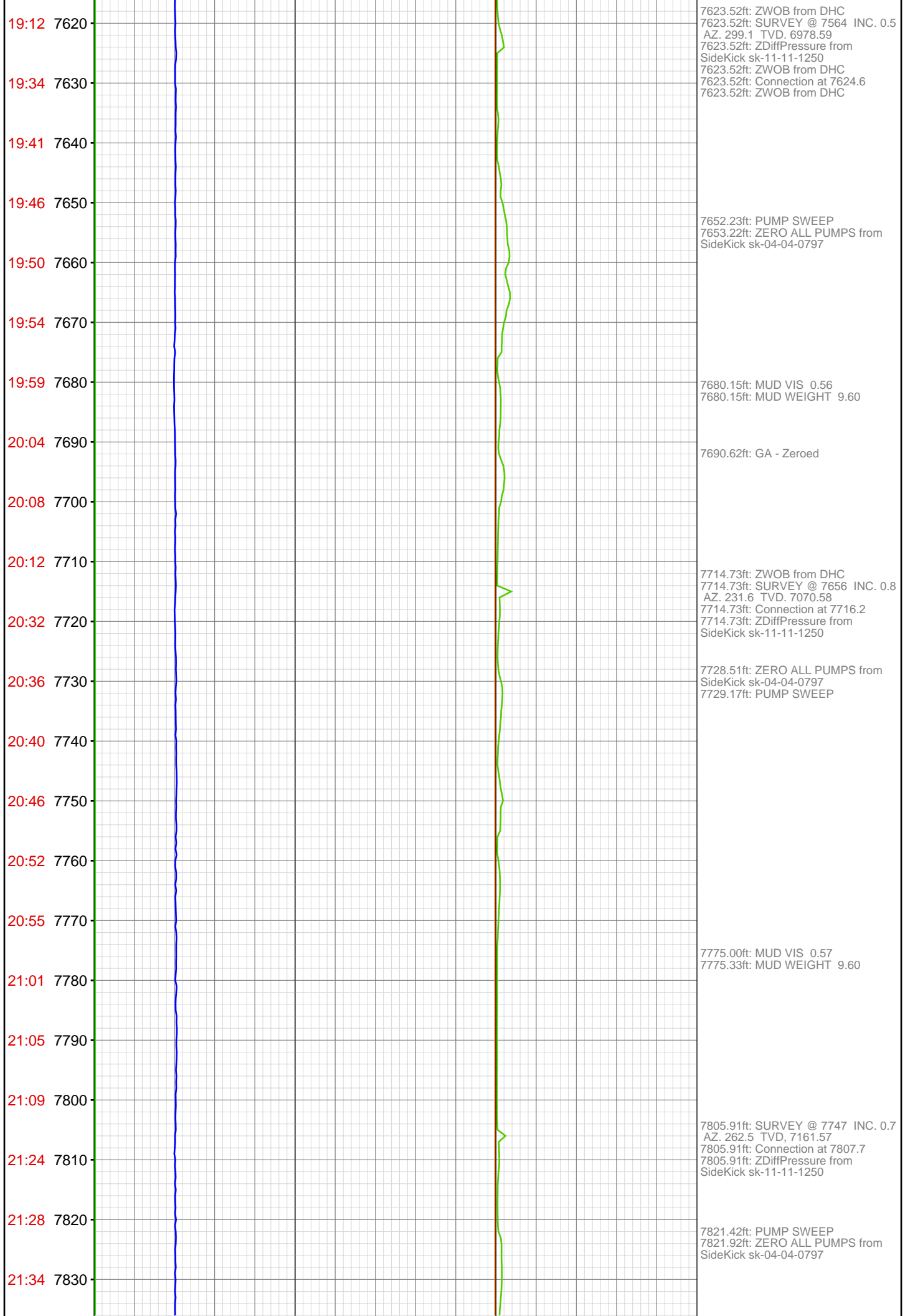
16:50 7400-  
16:54 7410-  
16:59 7420-  
17:04 7430-  
17:17 7440-  
17:22 7450-  
17:30 7460-  
17:36 7470-  
17:43 7480-  
17:50 7490-  
17:56 7500-  
18:01 7510-  
18:05 7520-  
18:12 7530-  
18:31 7540-  
18:36 7550-  
18:41 7560-  
18:47 7570-  
18:52 7580-  
18:57 7590-  
19:04 7600-  
19:08 7610-

7423.56ft: ZERO ALL PUMPS from  
SideKick sk-04-04-0797  
7437.93ft: ZWOB from SideKick  
sk-11-11-1250  
7437.93ft: PVT:Volume alarm  
snoozed 5 min  
7437.93ft: SURVEY @ 7381 INC. 0.0  
AZ. 280.2 TVD. 6795.59  
7437.93ft: ZDiffPressure from  
SideKick sk-11-11-1250  
7437.93ft: Connection at 7441.6  
7437.93ft: IN TALLY: HOLE DEPTH  
SET TO 7441.6  
7444.98ft: PVT:Volume alarm  
reactivated: snooze expired  
7451.25ft: ZERO ALL PUMPS from  
SideKick sk-04-04-0797

7461.22ft: MUD VIS 0.54  
7461.22ft: MUD WEIGHT 9.55

7523.00ft: MUD VIS 0.53  
7523.33ft: MUD WEIGHT 9.60  
7532.58ft: ZWOB from SideKick  
sk-11-11-1250  
7532.58ft: SURVEY @ 7473 INC. 0.4  
AZ. 301.8 TVD. 6887.59  
7532.58ft: Connection at 7533.0  
7532.58ft: ZDiffPressure from  
SideKick sk-11-11-1250  
7542.85ft: ZERO ALL PUMPS from  
SideKick sk-04-04-0797  
7543.14ft: PUMP SWEEP

7584.29ft: MUD VIS 0.55  
7584.71ft: MUD WEIGHT 9.60



21:39 7840  
21:42 7850  
21:46 7860  
21:53 7870  
21:59 7880  
22:02 7890  
22:17 7900  
22:27 7910  
22:37 7920  
22:41 7930  
22:47 7940  
22:51 7950  
22:58 7960  
23:06 7970  
23:13 7980  
23:33 7990  
23:37 8000  
23:42 8010  
23:48 8020  
23:55 8030  
6 Jul 06, 2012  
00:09 8050

7896.82ft: MUD VIS 0.55  
7896.82ft: MUD WEIGHT 9.60  
7896.82ft: ZWOB from SideKick  
sk-11-11-1250  
7896.82ft: Connection at 7899.2  
7897.01ft: SURVEY @ 7839 INC. 1.7  
AZ. 214.7 TVD. 7253.55

7913.58ft: ZDiffPressure from  
SideKick sk-11-11-1250  
7915.22ft: ZERO ALL PUMPS from  
SideKick sk-04-04-0797  
7915.55ft: PUMP SWEEP

7969.00ft: MUD VIS 0.56  
7969.00ft: MUD WEIGHT 9.60

7987.93ft: S-P-R  
7987.93ft: SURVEY @ 7930 INC. 1.0  
AZ. 236.7 TVD. 7344.53  
7987.93ft: Connection at 7990.8  
7987.93ft: ZDiffPressure from  
SideKick sk-11-11-1250

8008.92ft: PUMP SWEEP  
8010.99ft: ZERO ALL PUMPS from  
SideKick sk-04-04-0797

8031.59ft: MUD VIS 0.56  
8031.63ft: MUD WEIGHT 9.60



03:22 8280  
03:28 8290  
03:32 8300  
03:38 8310  
03:42 8320  
03:53 8330  
03:56 8340  
04:00 8350  
04:25 8360  
04:35 8370  
04:41 8380  
04:48 8390  
04:53 8400  
04:59 8410  
05:03 8420  
05:07 8430  
05:12 8440  
05:31 8450  
05:38 8460  
05:46 8470  
05:52 8480  
06:18 8490



8283.20ft: PUMP SWEEP  
8283.37ft: ZERO ALL PUMPS from  
SideKick sk-04-04-0797

8352.46ft: MUD VIS 0.58  
8352.46ft: MUD WEIGHT 9.65  
8352.46ft: SURVEY @ 8296 INC .4  
AZ 339.8 TVD 7710.47  
8352.46ft: Connection at 8356.7  
8352.46ft: ZDiffPressure from  
SideKick sk-11-11-1250

8400.89ft: PUMP OUT CELLAR

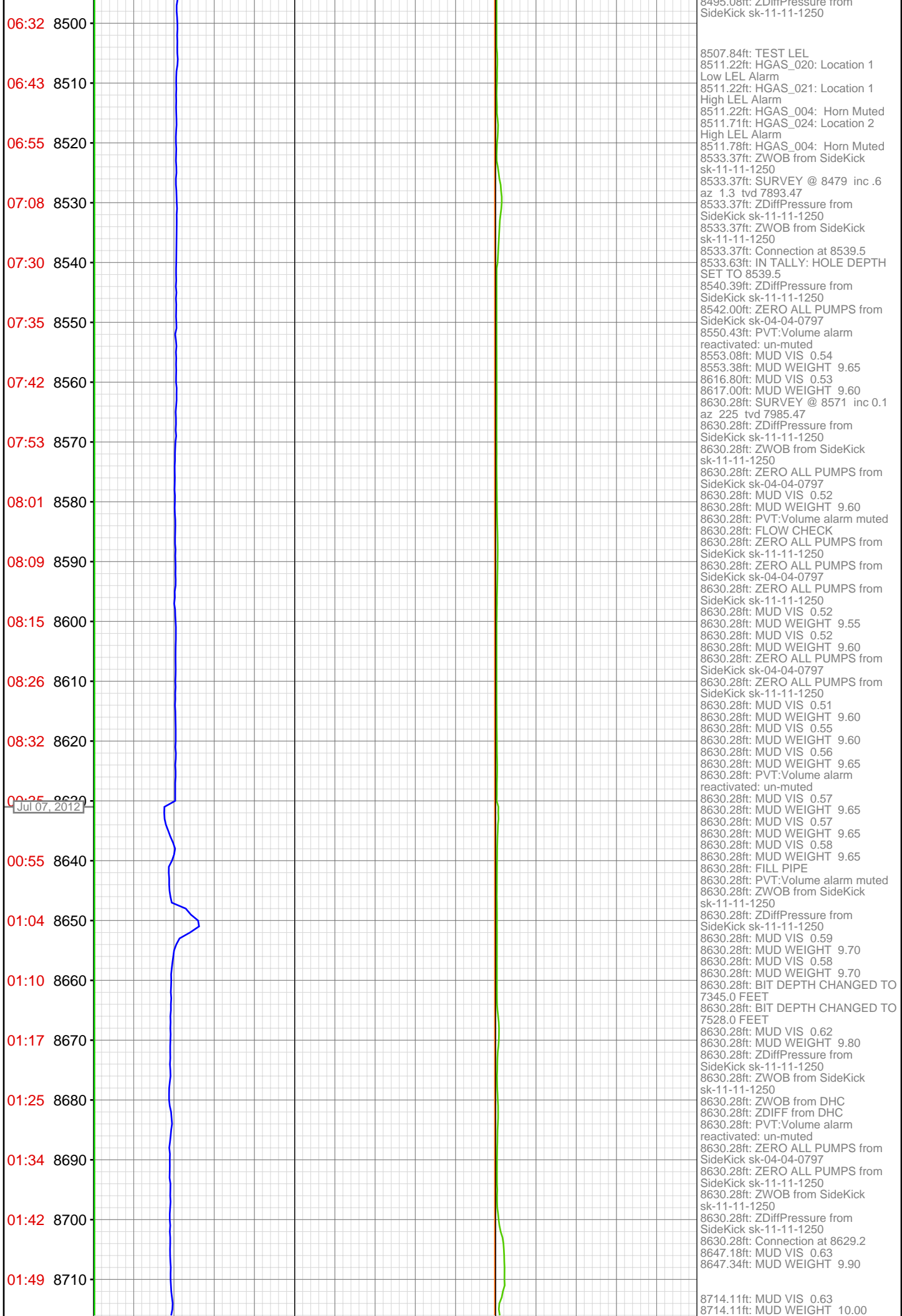
8420.05ft: MUD VIS 0.58  
8420.64ft: MUD WEIGHT 9.65

8443.34ft: ZWOB from SideKick  
sk-11-11-1250  
8443.34ft: SURVEY @ 8388 INC .2  
AZ 64.8 TVD 7802.47 Connection at  
8448.1

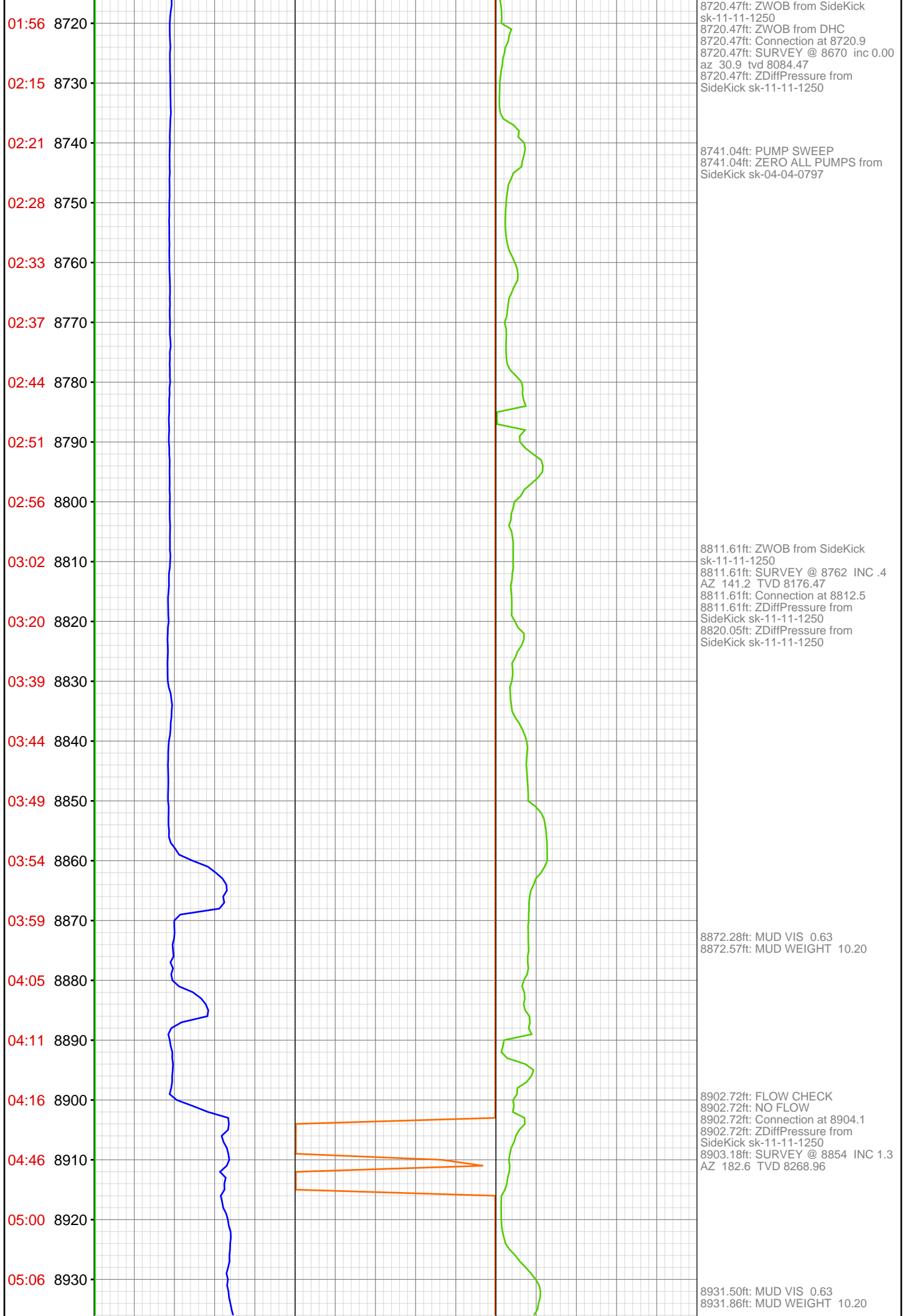
8458.27ft: ZERO ALL PUMPS from  
SideKick sk-04-04-0797  
8458.33ft: PUMP SWEEP

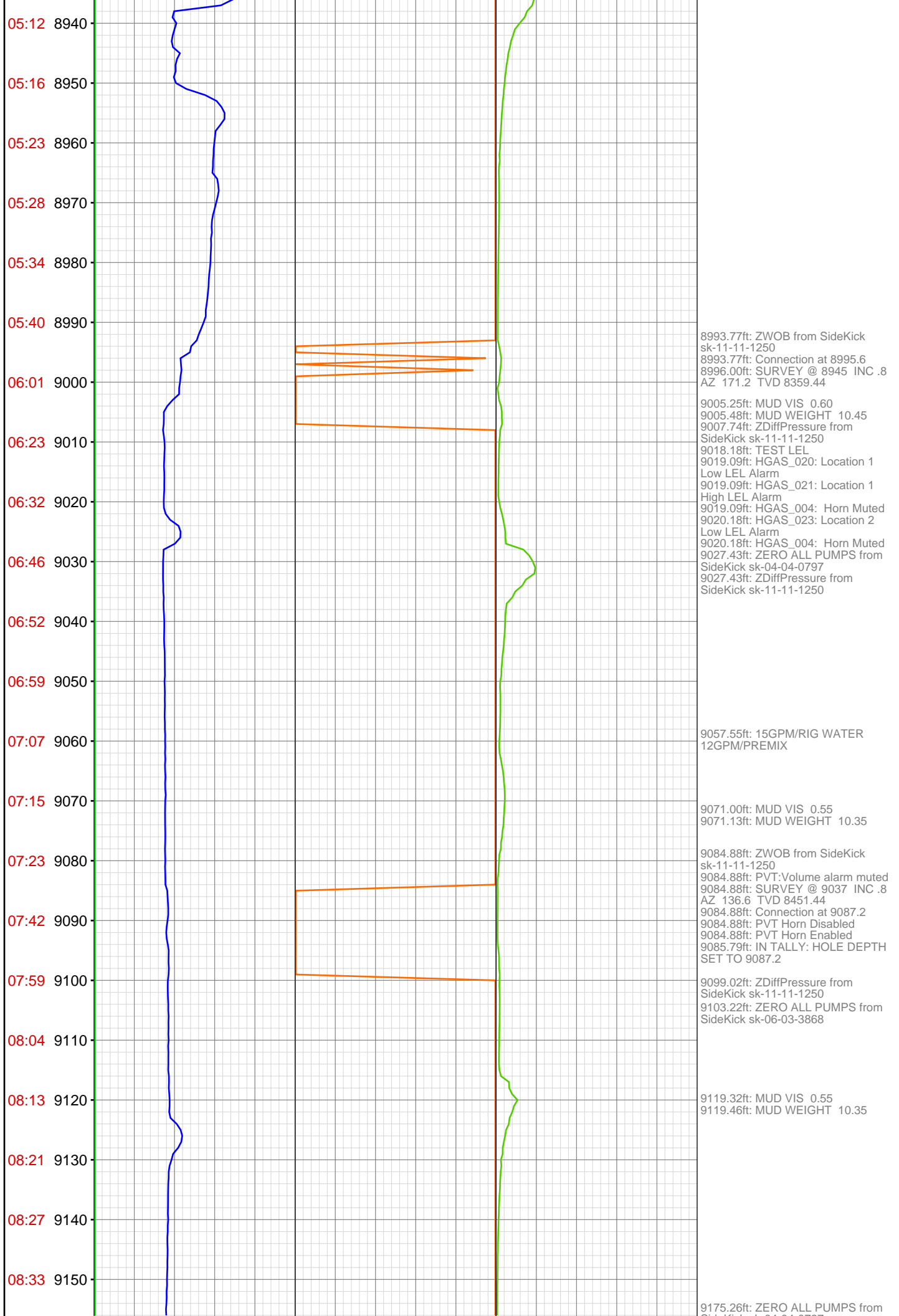
8481.59ft: MUD VIS 0.57  
8481.59ft: MUD WEIGHT 9.65  
8481.59ft: ZDiffPressure from  
SideKick sk-11-11-1250  
8481.63ft: PVT:Volume alarm muted

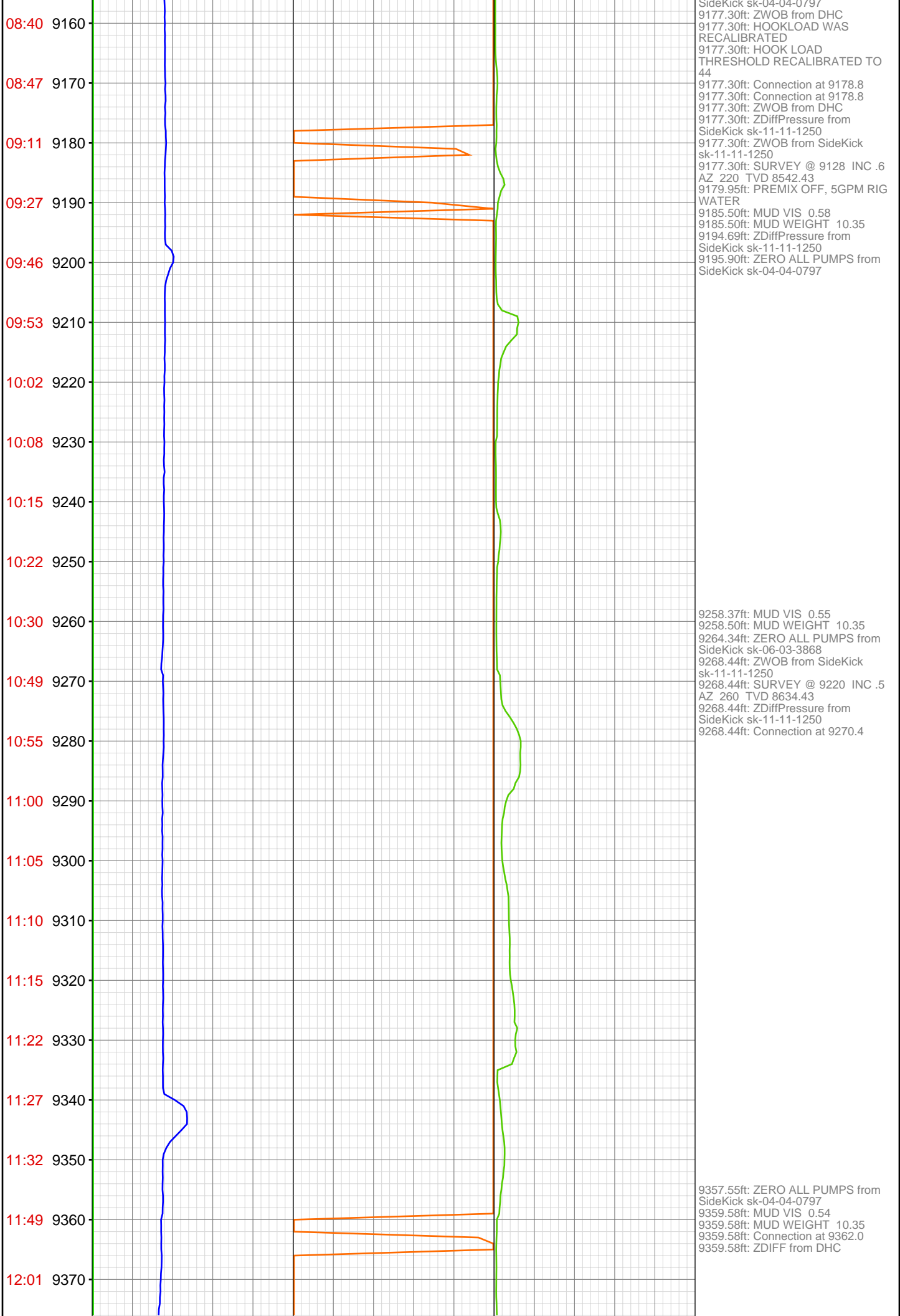
8495.08ft: ZDiffPressure from

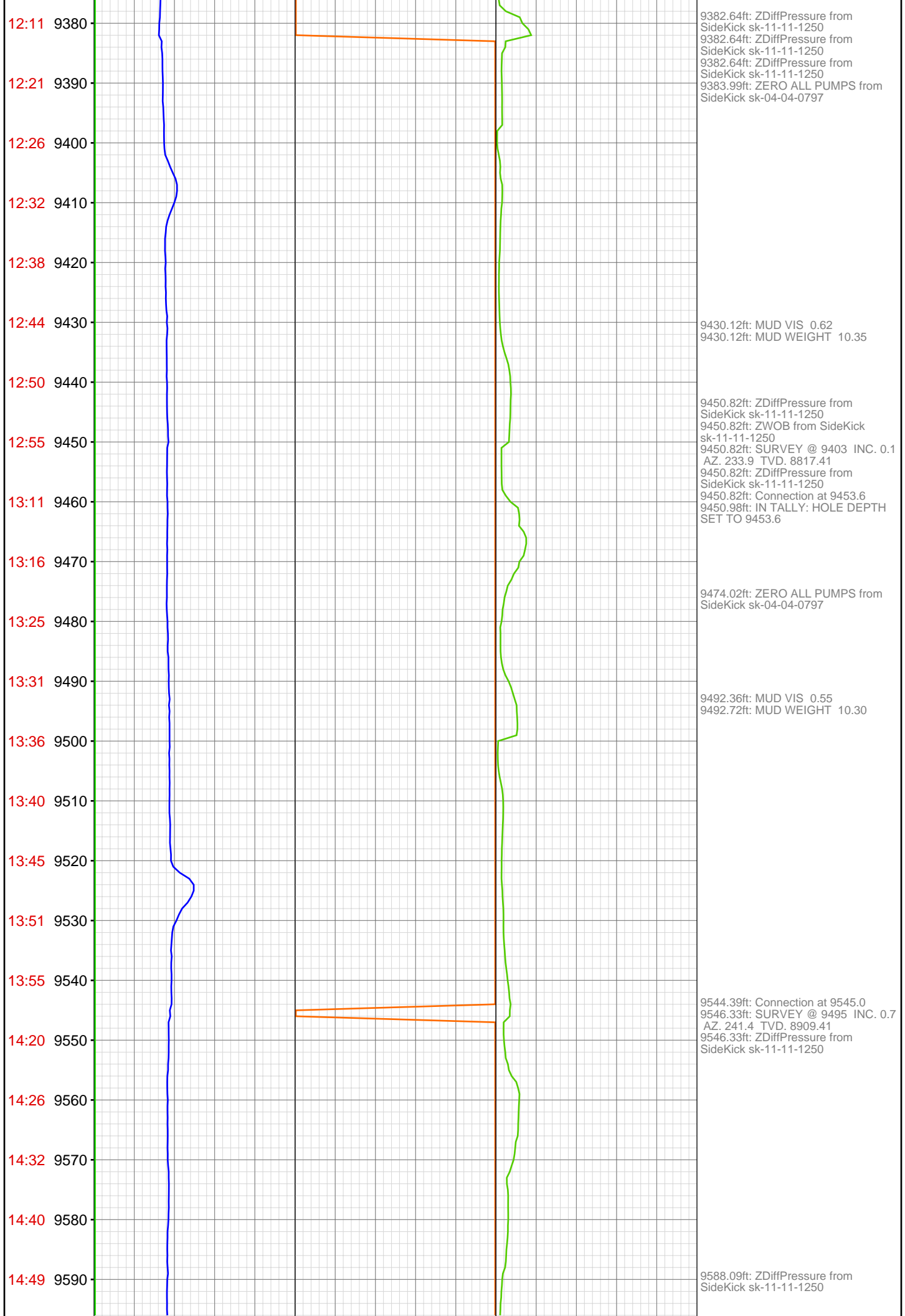


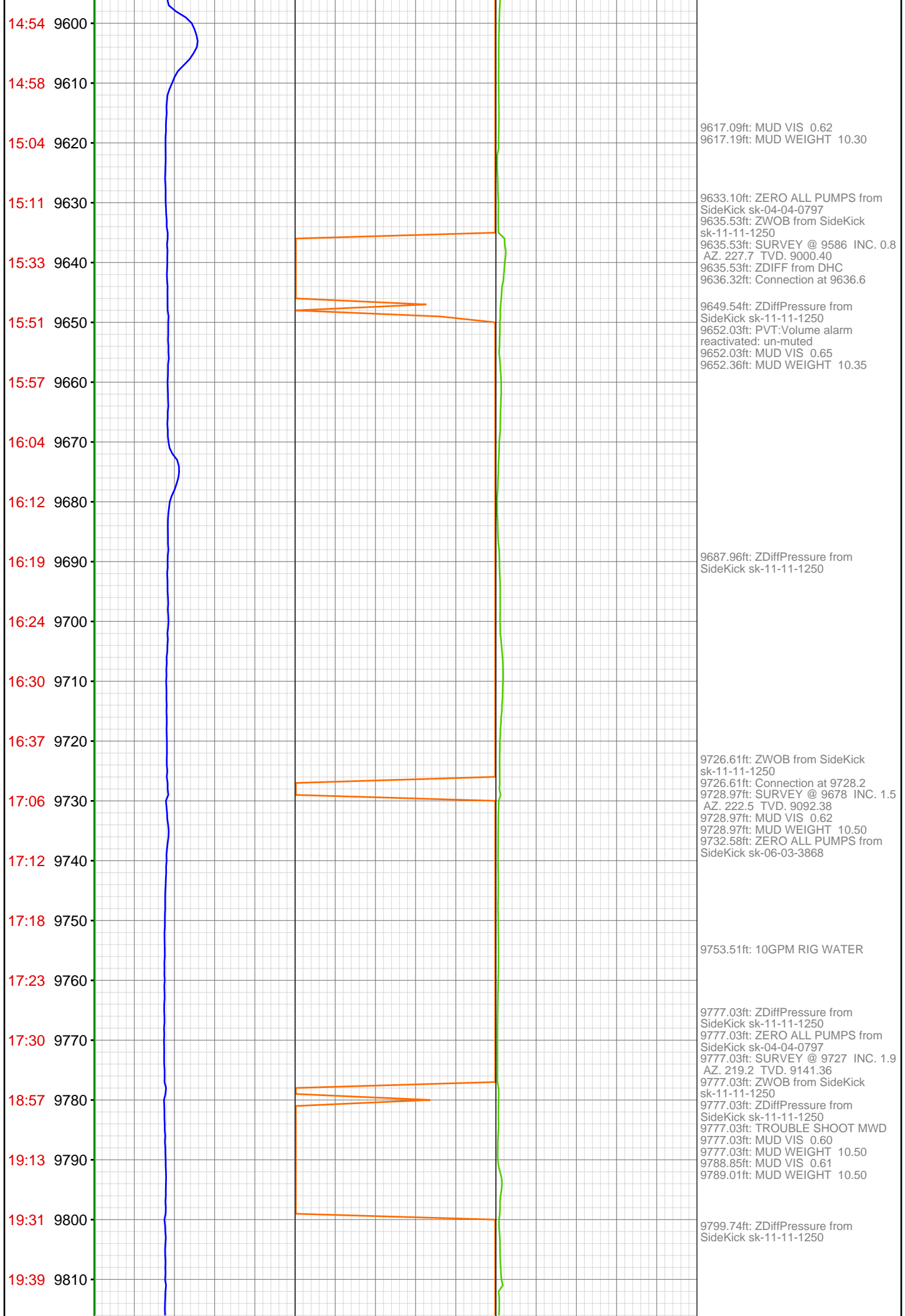


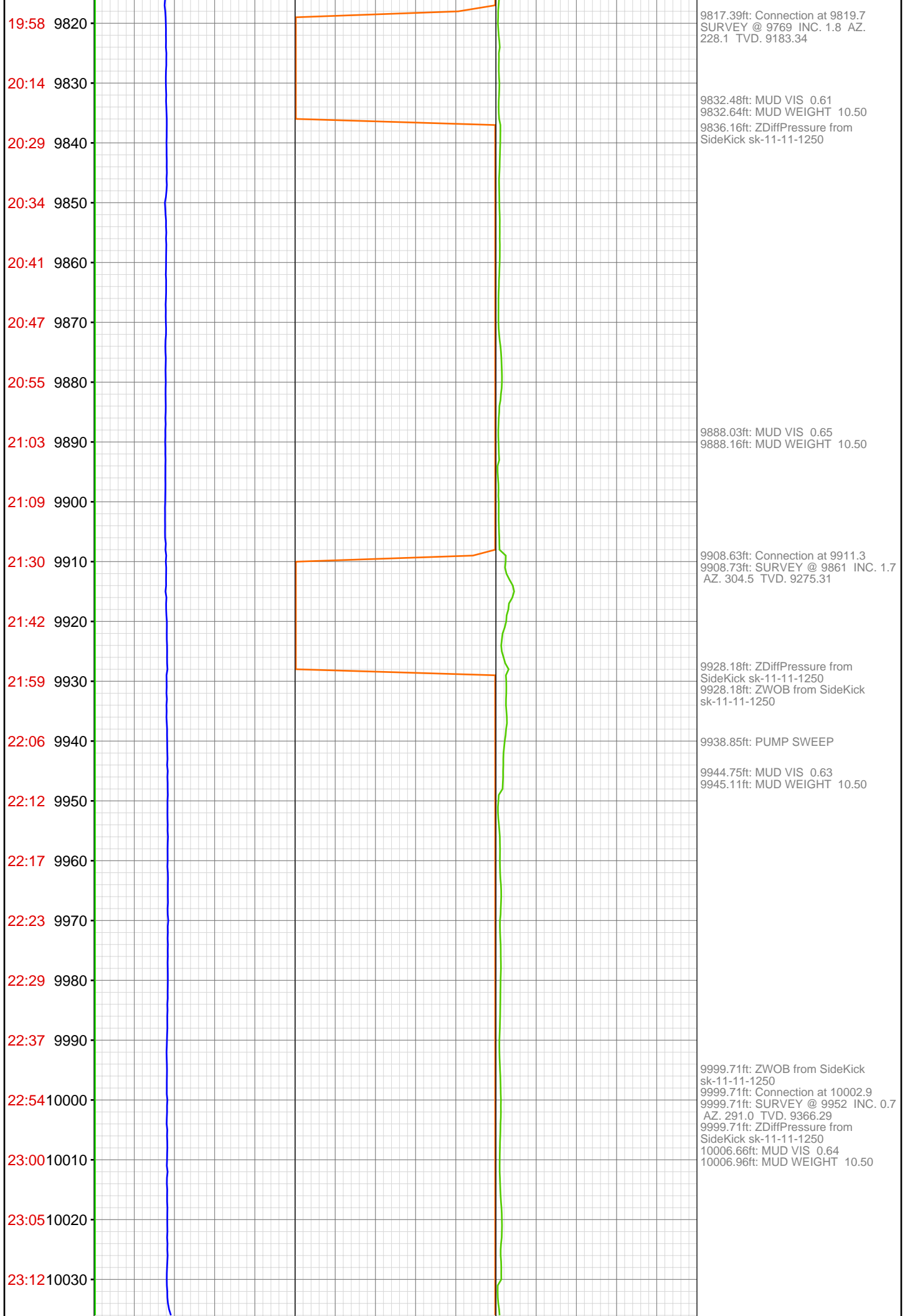












23:18 10040  
23:23 10050  
23:30 10060  
23:35 10070  
23:41 10080  
00:01 10090  
00:05 10100  
00:11 10110  
00:17 10120  
00:24 10130  
00:28 10140  
00:32 10150  
00:37 10160  
00:43 10170  
00:49 10180  
01:09 10190  
01:20 10200  
01:31 10210  
01:37 10220  
01:44 10230  
01:50 10240  
01:54 10250

Jul 08, 2012

10044.78ft: PUMP SWEEP  
10046.16ft: ZERO ALL PUMPS from  
SideKick sk-06-03-3868

10090.95ft: ZWOB from SideKick  
sk-11-11-1250  
10090.95ft: SURVEY @ 10044 INC.  
0.6 AZ. 255.5 TVD. 9458.28  
10090.95ft: Connection at 10094.5  
10090.95ft: ZDiffPressure from  
SideKick sk-11-11-1250  
10092.00ft: MUD VIS 0.63  
10092.29ft: MUD WEIGHT 10.50

10182.28ft: Connection at 10186.2  
10185.66ft: MUD VIS 0.65  
10185.83ft: MUD WEIGHT 10.50  
10188.45ft: SURVEY @ 10136 INC.  
0.9 AZ. 226.6 TVD. 9550.27

10204.00ft: ZDiffPressure from  
SideKick sk-11-11-1250

01:58 10260  
02:04 10270  
02:21 10280  
02:26 10290  
02:30 10300  
02:36 10310  
02:42 10320  
02:48 10330  
02:53 10340  
02:57 10350  
03:03 10360  
03:25 10370  
03:30 10380  
03:37 10390  
03:44 10400  
03:49 10410  
03:55 10420  
04:01 10430  
04:08 10440  
04:13 10450  
04:32 10460  
04:38 10470

10273.36ft: MUD VIS 0.64  
10273.36ft: MUD WEIGHT 10.50  
10273.36ft: SURVEY @ 10227 INC.  
1.8 AZ. 262.4 TVD. 9641.25  
10273.36ft: ZDiffPressure from  
SideKick sk-11-11-1250  
10273.36ft: Connection at 10277.9

10352.26ft: MUD VIS 0.67  
10352.26ft: MUD WEIGHT 10.50

10364.57ft: Connection at 10369.4  
10364.57ft: SURVEY @ 10319 INC.  
2.2 AZ. 254.1 TVD. 9733.19  
10364.57ft: ZDiffPressure from  
SideKick sk-11-11-1250

10420.28ft: MUD VIS 0.66  
10420.28ft: MUD WEIGHT 10.50

10455.64ft: ZWOB from SideKick  
sk-11-11-1250  
10455.64ft: Connection at 10461.0  
10455.64ft: SURVEY @ 10410 INC.  
2.5 AZ. 237.5 TVD. 9824.12  
10455.64ft: ZDiffPressure from  
SideKick sk-11-11-1250



