



# Electronic Drilling Recorder

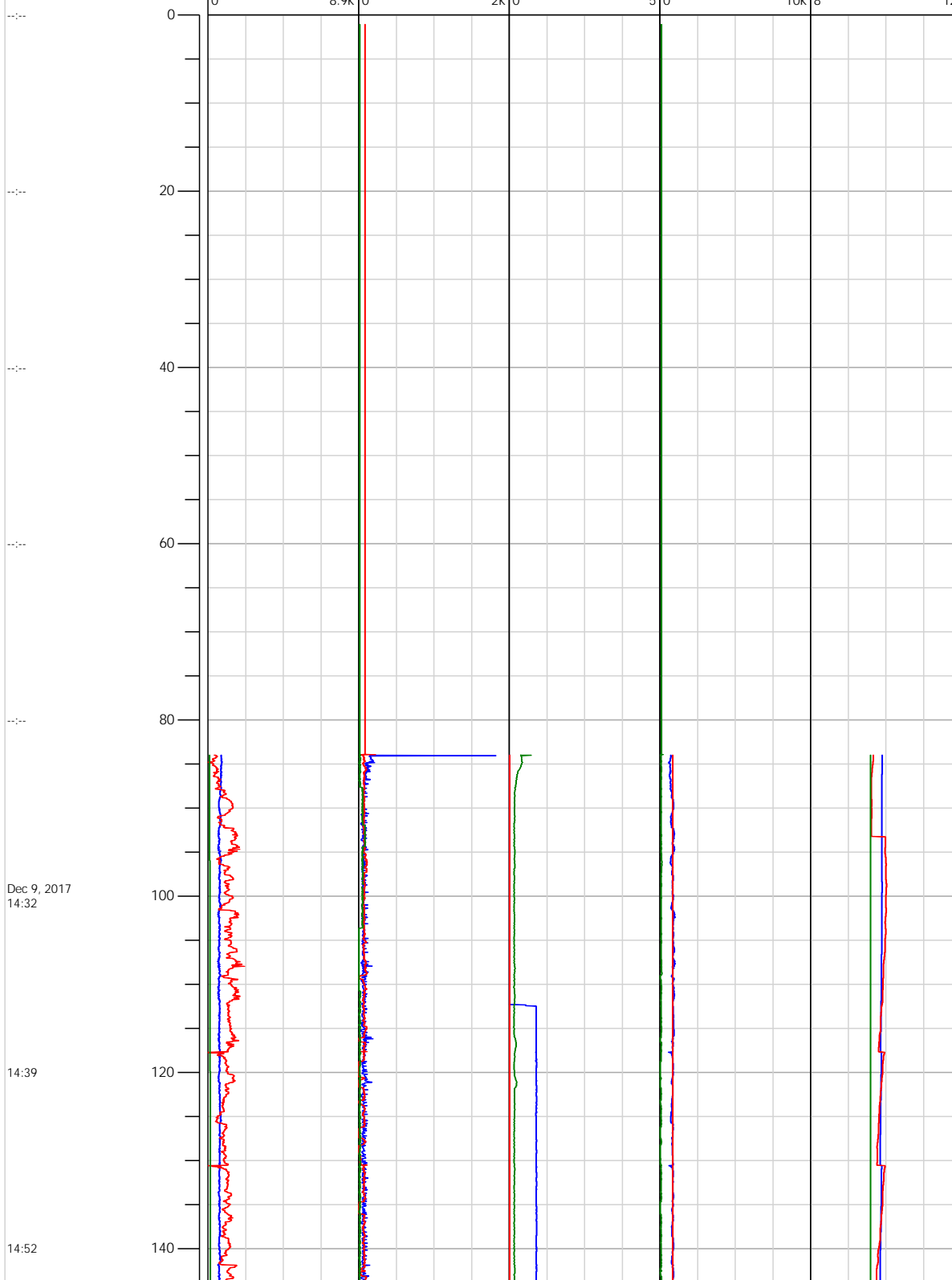
**Operator:** Laramie Energy  
**Contractor:** Helmerich & Payne Drlg Co

**Well Name:** Nichols 24-06W  
**Rig:** 290

**Location:** SW/4 of NE/4

Depth in ft (1:200)

Notes



0.00: Deviation Survey  
 0.00 ft, Deviation 0 deg,  
 Direction 0 deg  
 1.00: Rig Floor set Hole  
 Depth from 1.00 ft to  
 84.00 ft  
 1.00: Rig Floor set Bit  
 Position from 1.00 ft to  
 84.00 ft  
  
 84.00: Rig Floor set Bit  
 Position from 69.55 ft to  
 84.00 ft  
 84.00: Rig Floor set Bit  
 Position from 84.00 ft to  
 0.00 ft

Dec 9, 2017  
 14:32

14:39

14:52



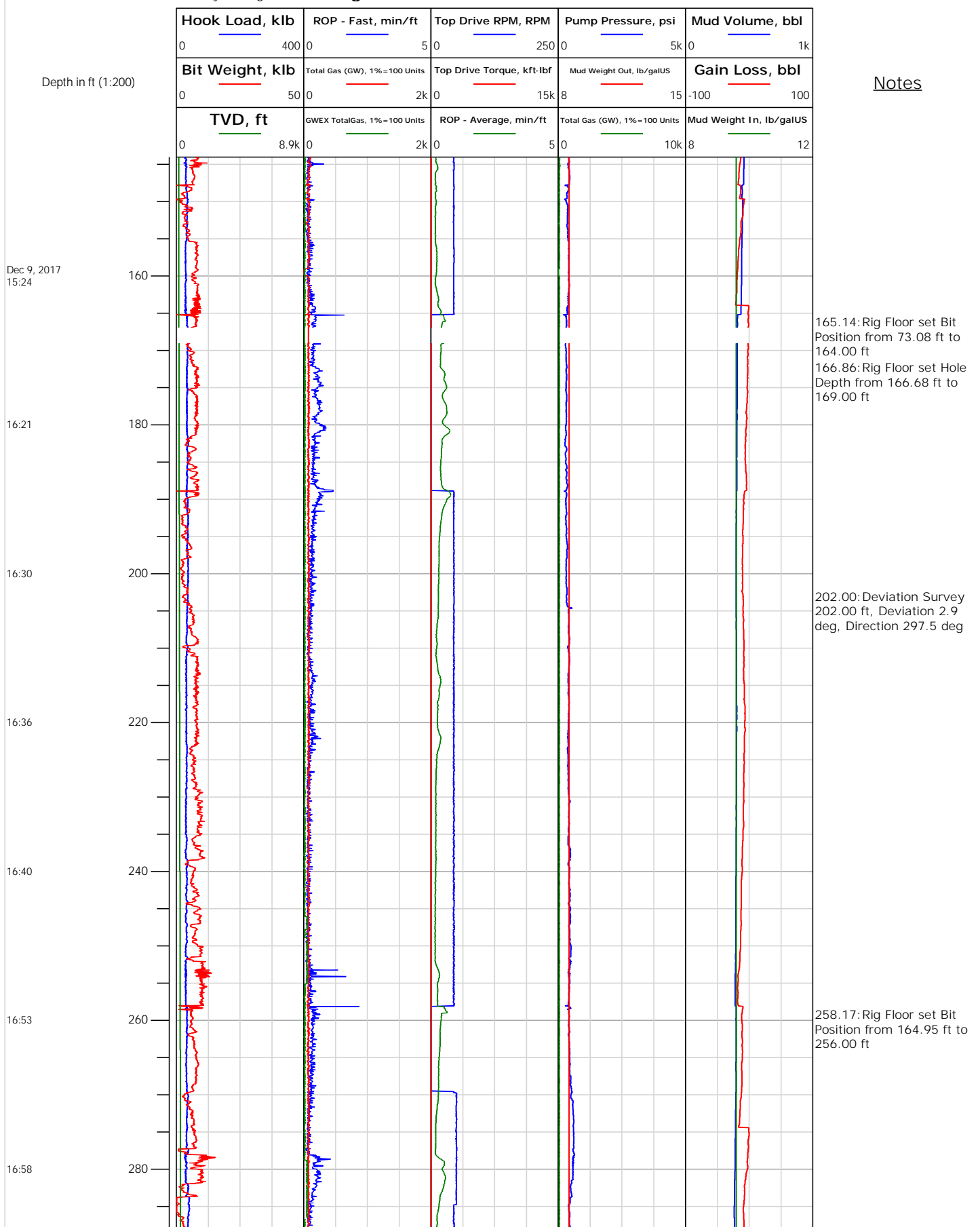
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**Rig:** 290

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## Notes







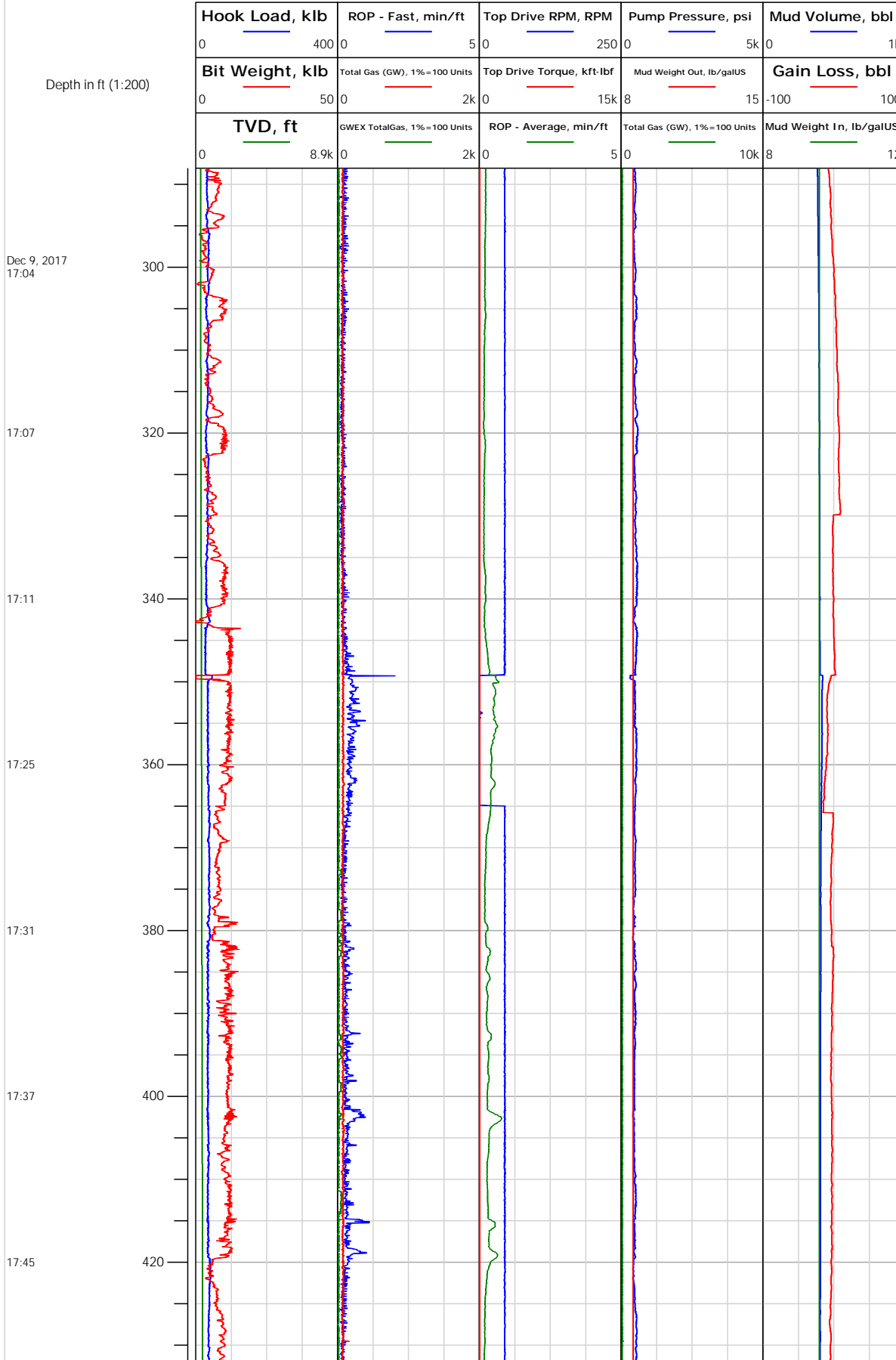
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**Rig:** 290

**Location:** SW/4 of NE/4

## Notes



293.00: Deviation Survey  
293.00 ft, Deviation 3.5 deg, Direction 300.5 deg

384.00: Deviation Survey  
384.00 ft, Deviation 3.7 deg, Direction 289.4 deg



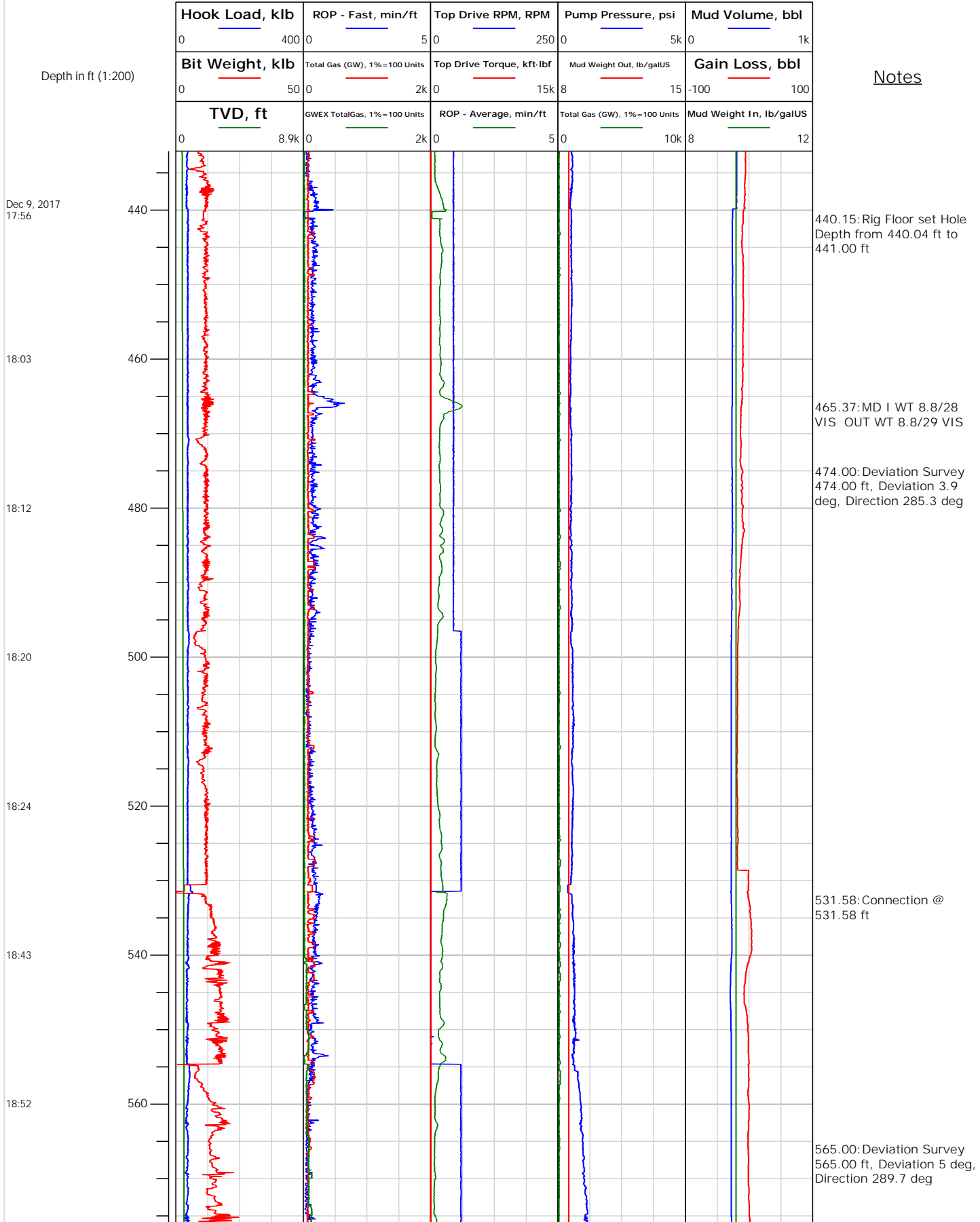
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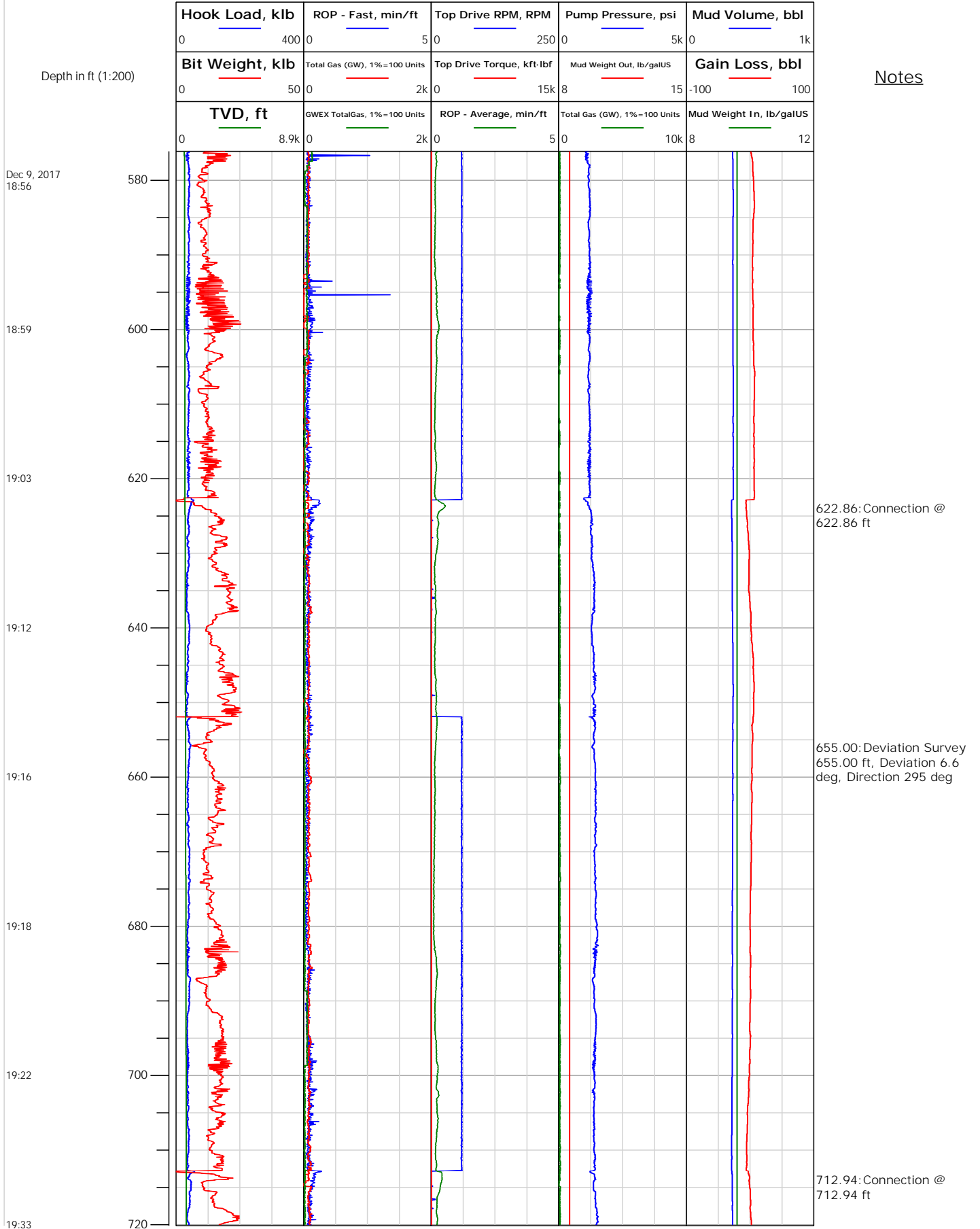
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**Well Name:** Nichols 24-06W  
**Rig:** 290

**Location:** SW/4 of NE/4

Depth in ft (1:200)

Notes

Dec 9, 2017  
19:36

19:39

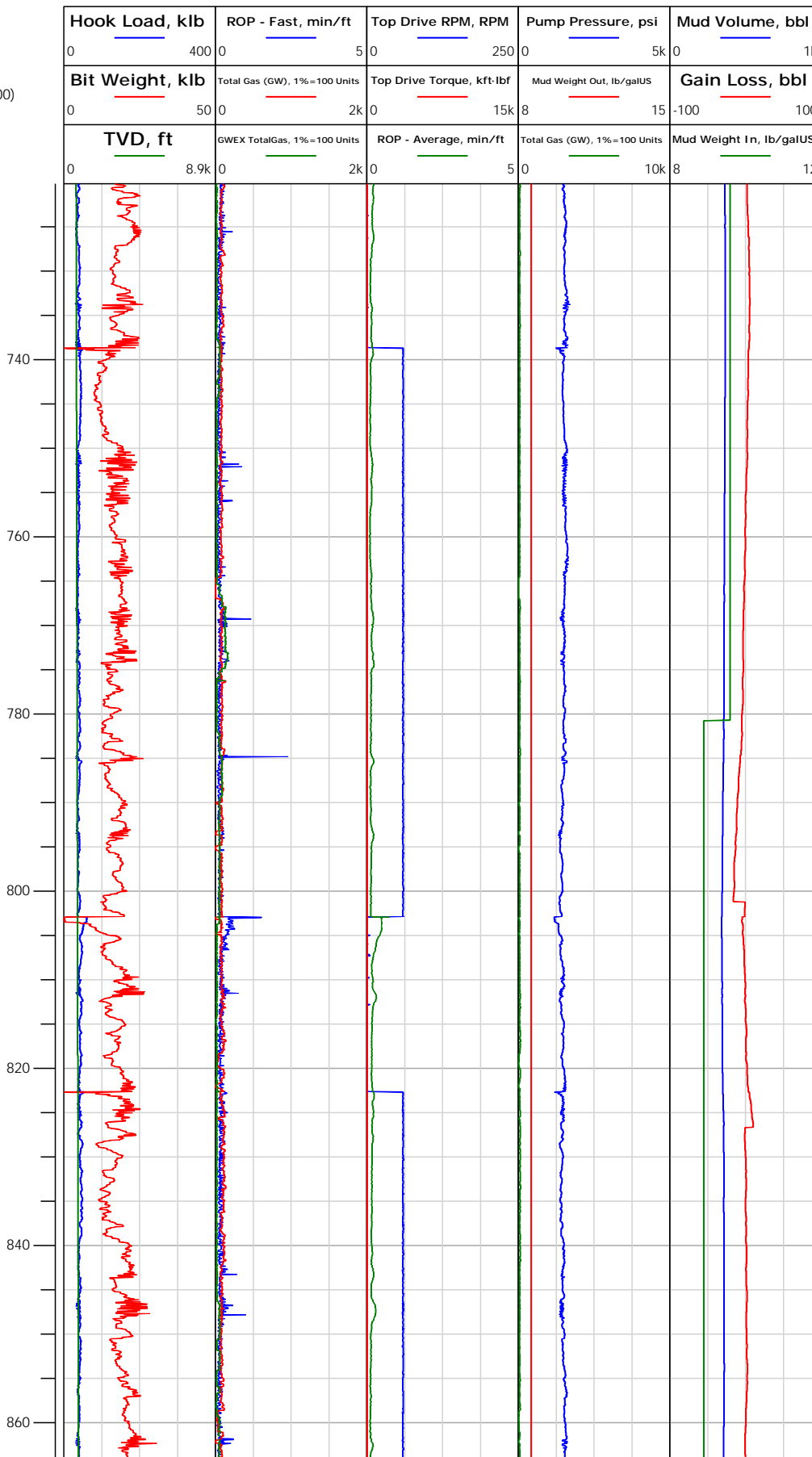
19:42

19:44

19:53

19:57

20:00



745.00: Deviation Survey  
 745.00 ft, Deviation 8.3  
 deg, Direction 293.9 deg

802.96: Connection @  
 802.96 ft

837.00: Deviation Survey  
 837.00 ft, Deviation 9.8  
 deg, Direction 289 deg



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Well Name: Nichols 24-06W  
Rig: 290

Location: SW/4 of NE/4

## Notes

Depth in ft (1:200)

Dec 9, 2017  
20:03

20:13

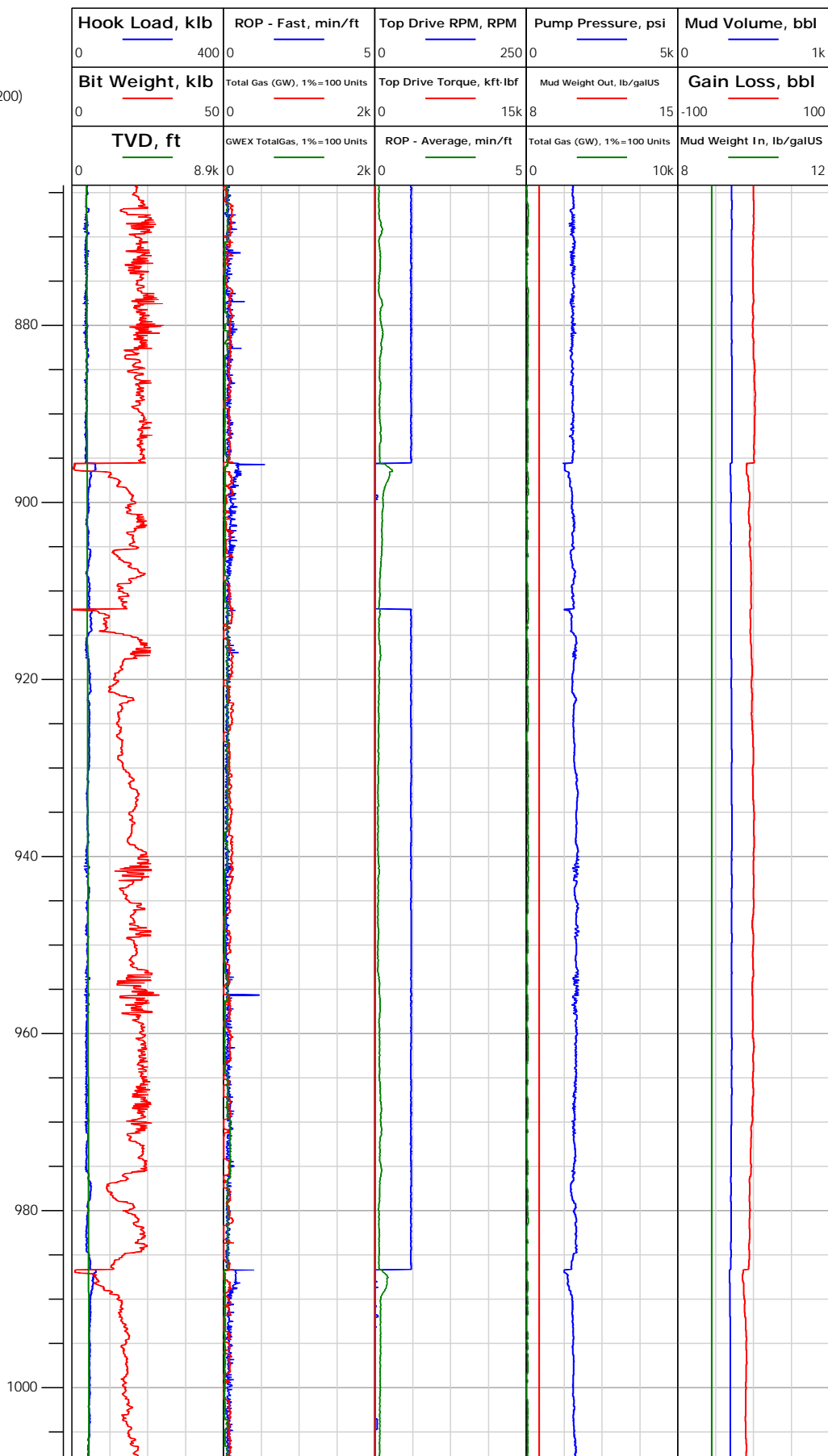
20:17

20:19

20:21

20:25

20:34





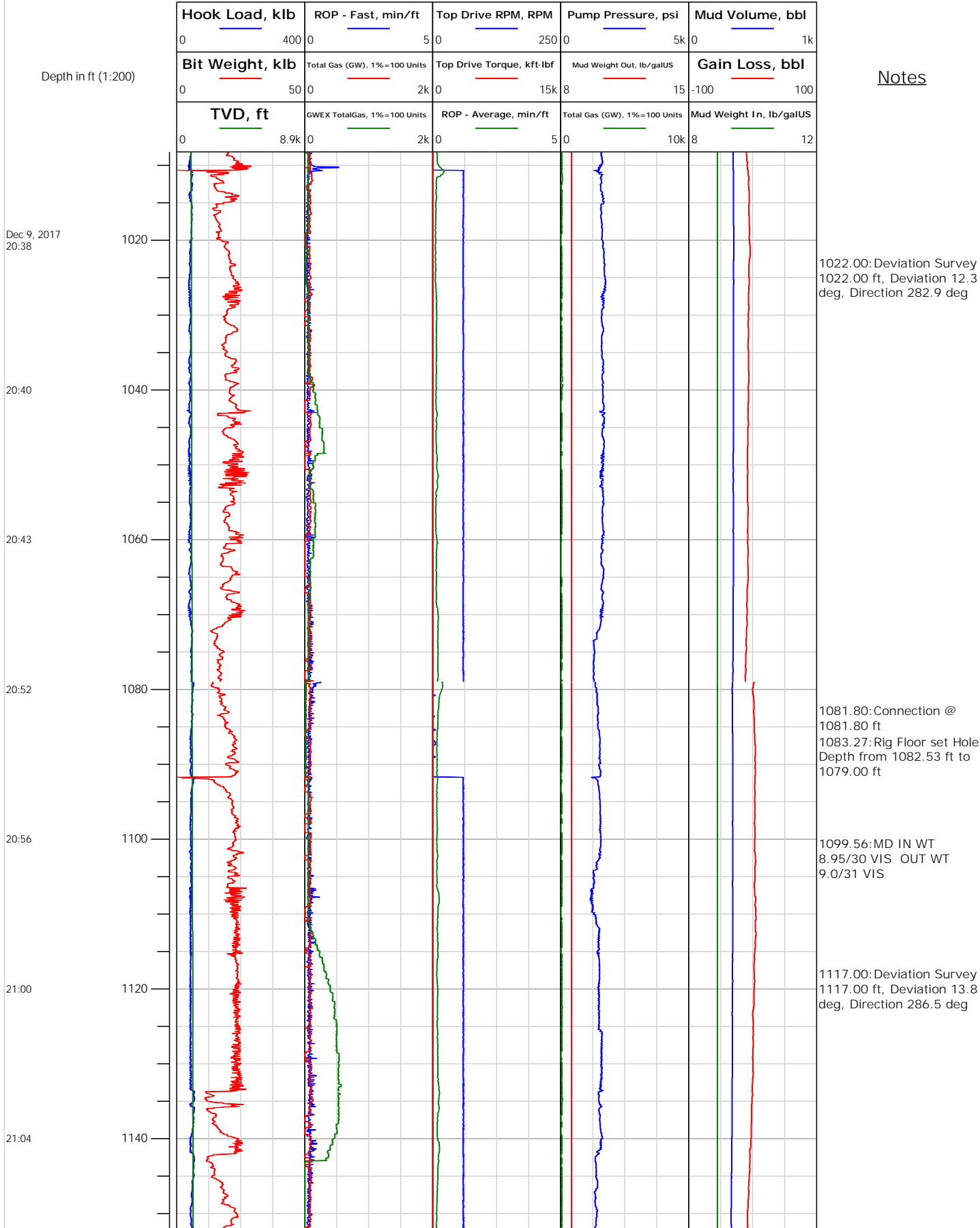
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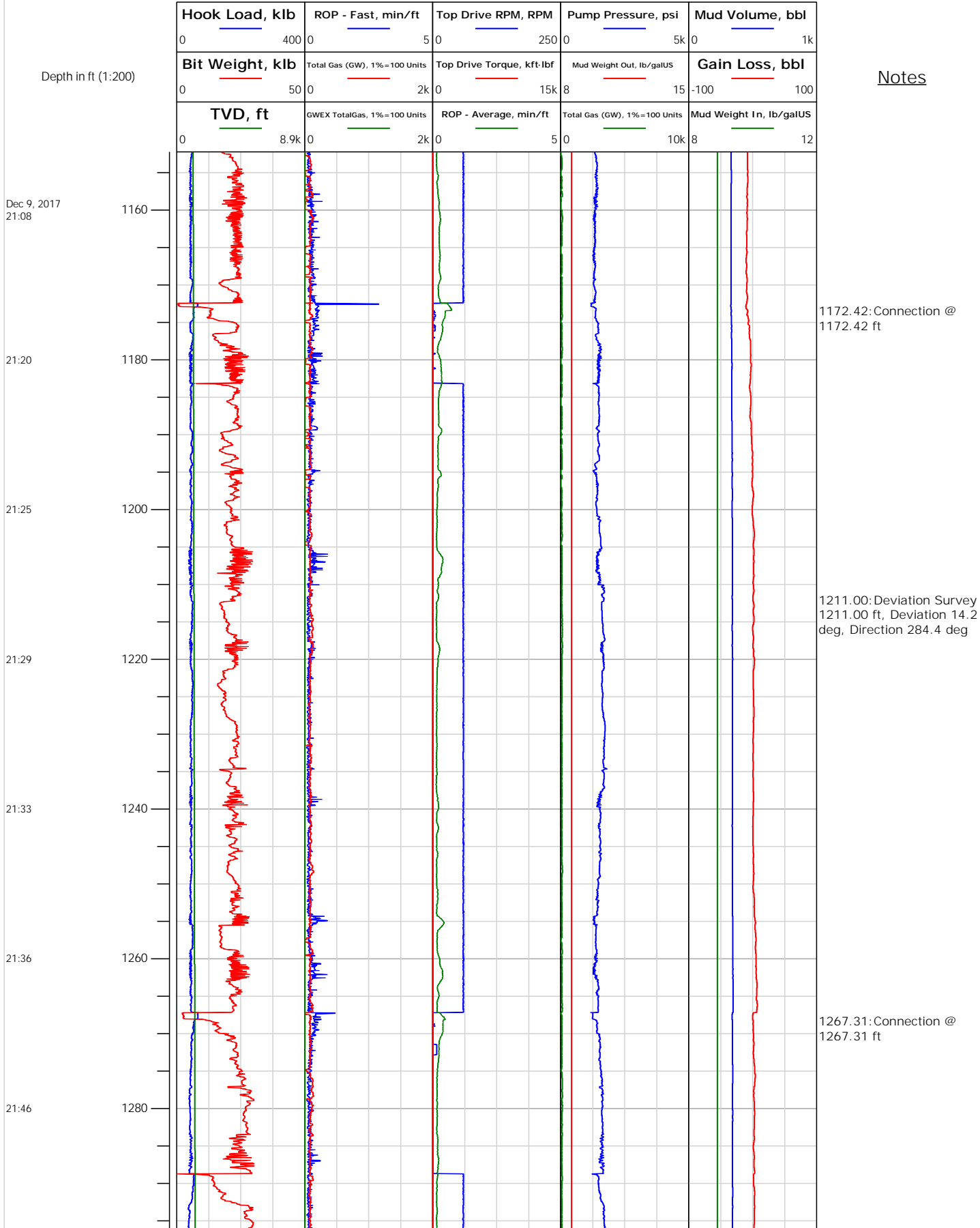
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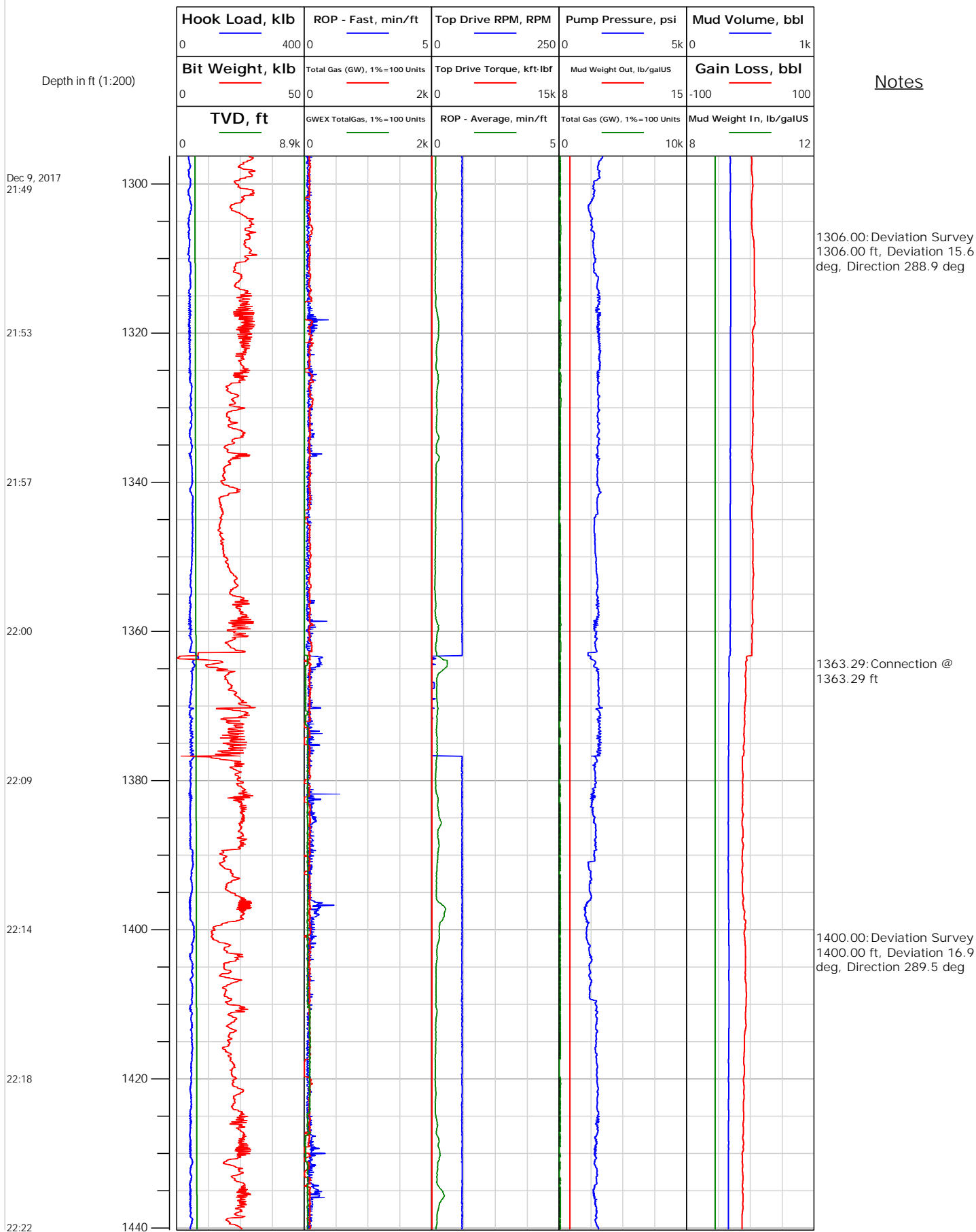
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**Rig:** 290

**Location:** SW/4 of NE/4

## Notes

Depth in ft (1:200)

Dec 9, 2017  
22:34

22:40

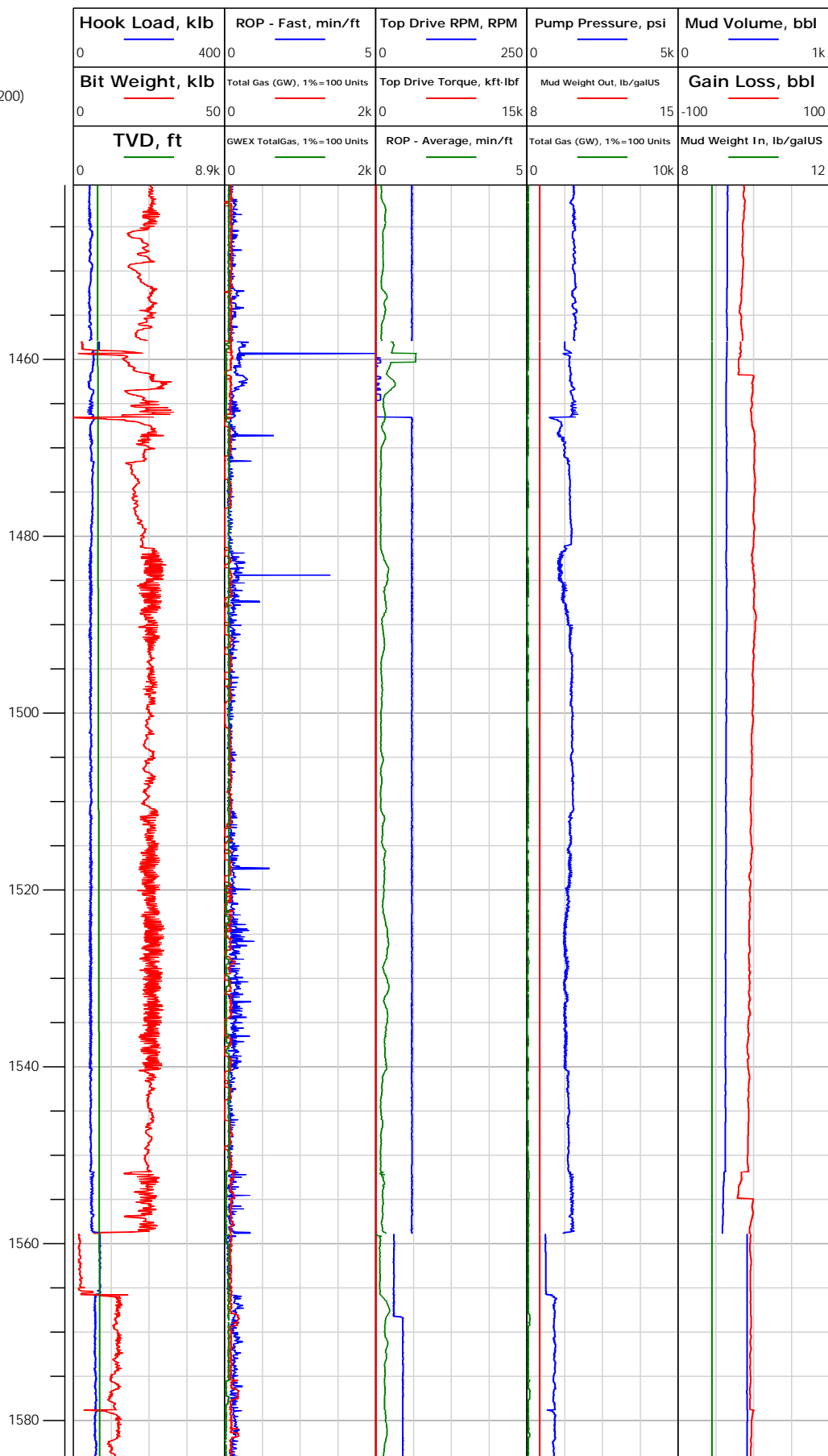
22:45

22:49

22:56

Dec 10, 2017  
17:48

17:56





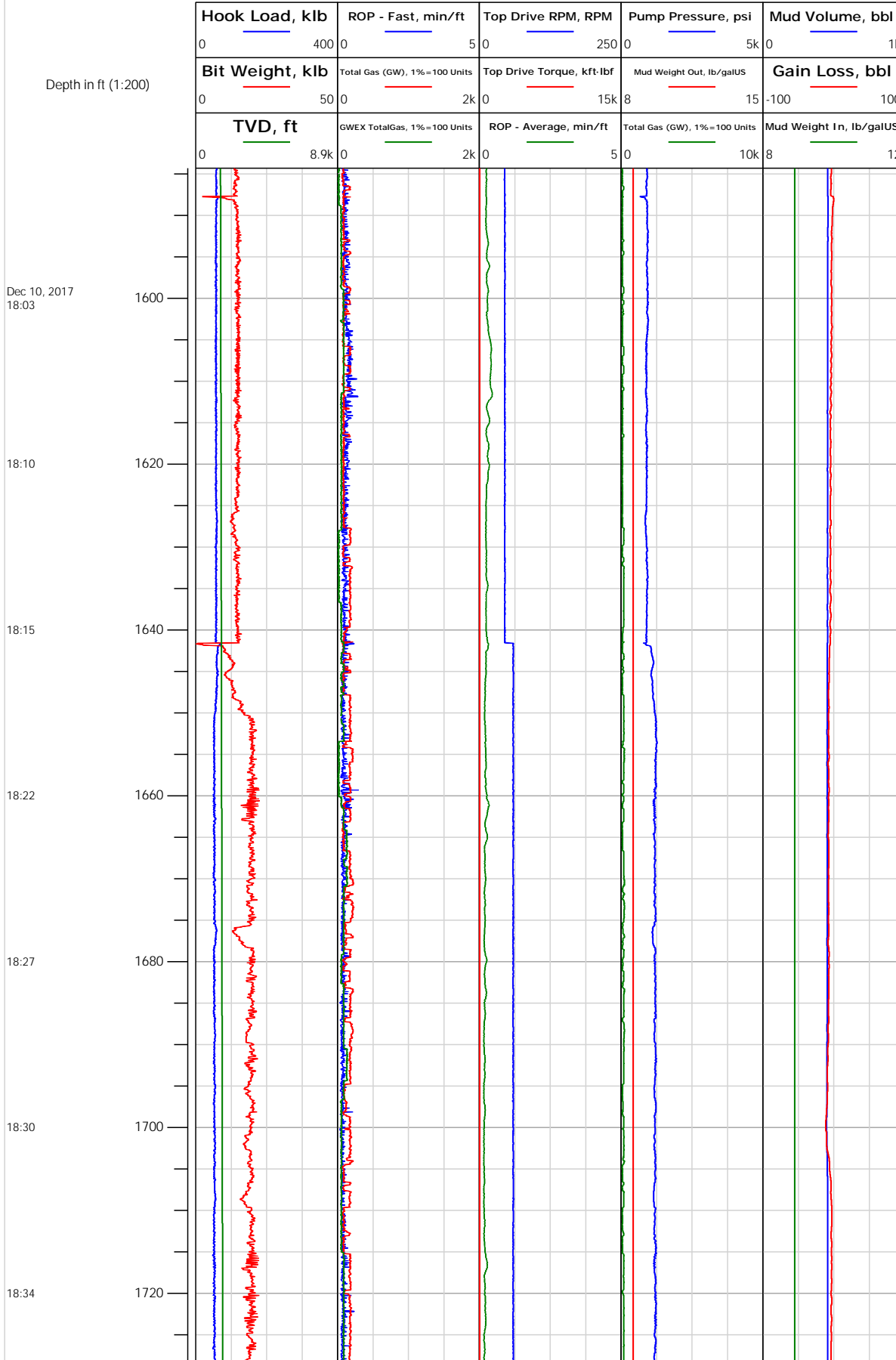
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**Rig:** 290

**Location:** SW/4 of NE/4

## Notes



1584.45: Connection @  
1584.45 ft  
1587.00: Deviation Survey  
1587.00 ft, Deviation 17  
deg, Direction 289.7 deg

1613.90: MD IN WT 8.5/27  
VIS OUT WT 8.6/27 VIS

1674.73: Connection @  
1674.73 ft  
1674.73: Rig Floor set Bit  
Position from 1674.47 ft to  
0.00 ft  
1674.73: Rig Floor set Bit  
Position from 0.00 ft to  
0.00 ft  
1674.73: Rig Floor set Hole  
Depth from 1674.73 ft to  
1559.00 ft  
1680.99: Deviation Survey  
1681.00 ft, Deviation 16.9  
deg, Direction 289 deg



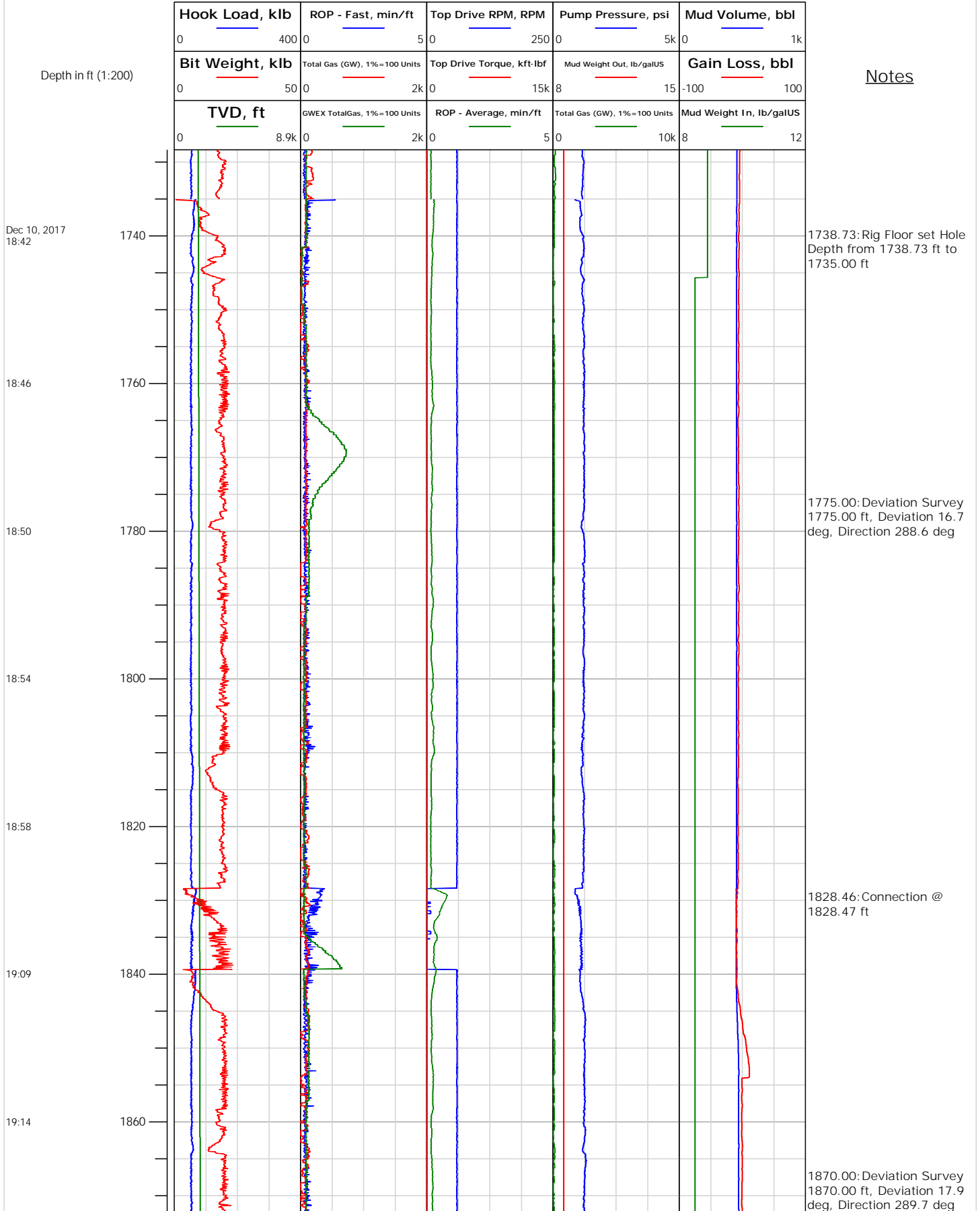
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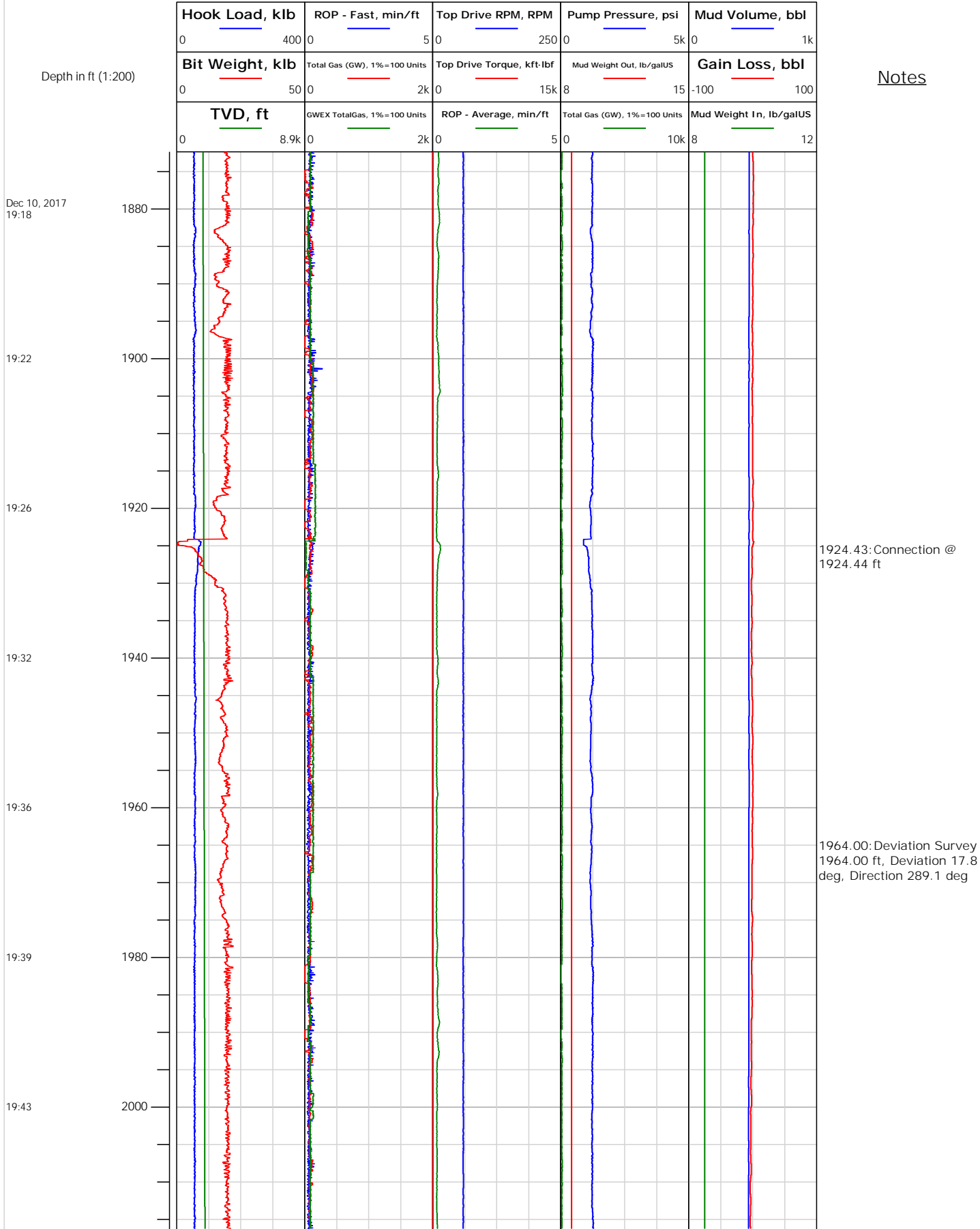
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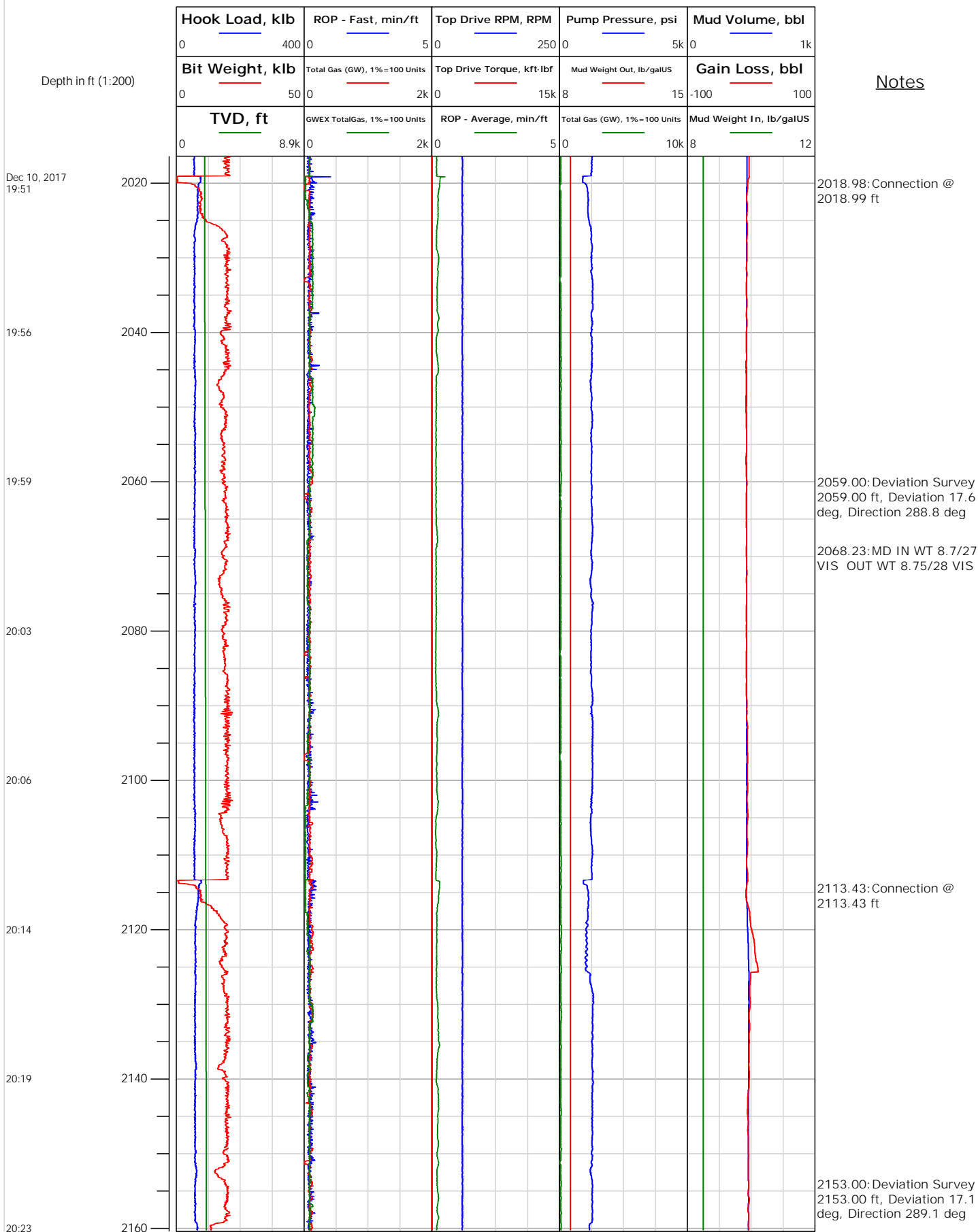
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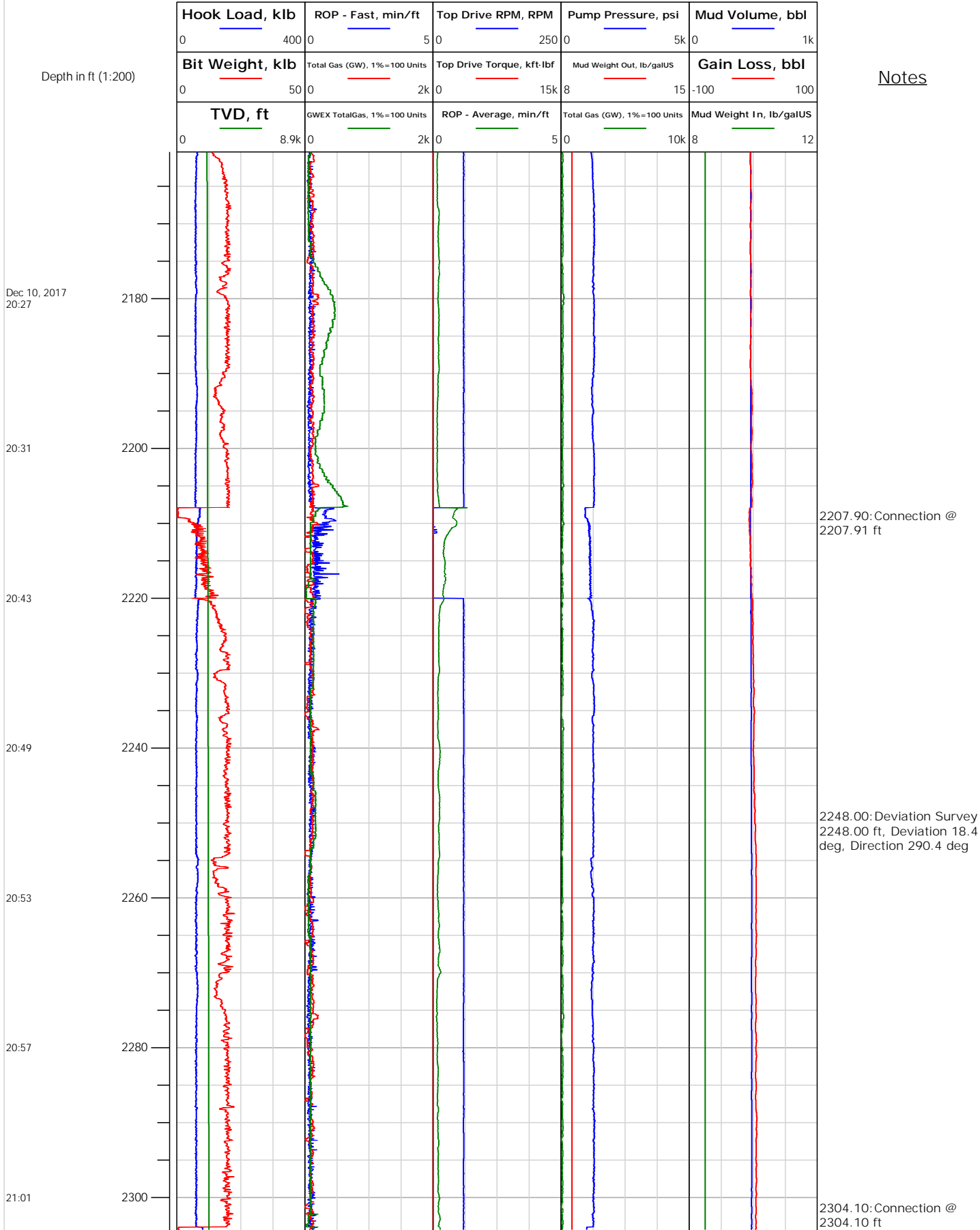
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**Rig:** 290

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## Notes

Depth in ft (1:200)

Dec 10, 2017  
21:10

21:13

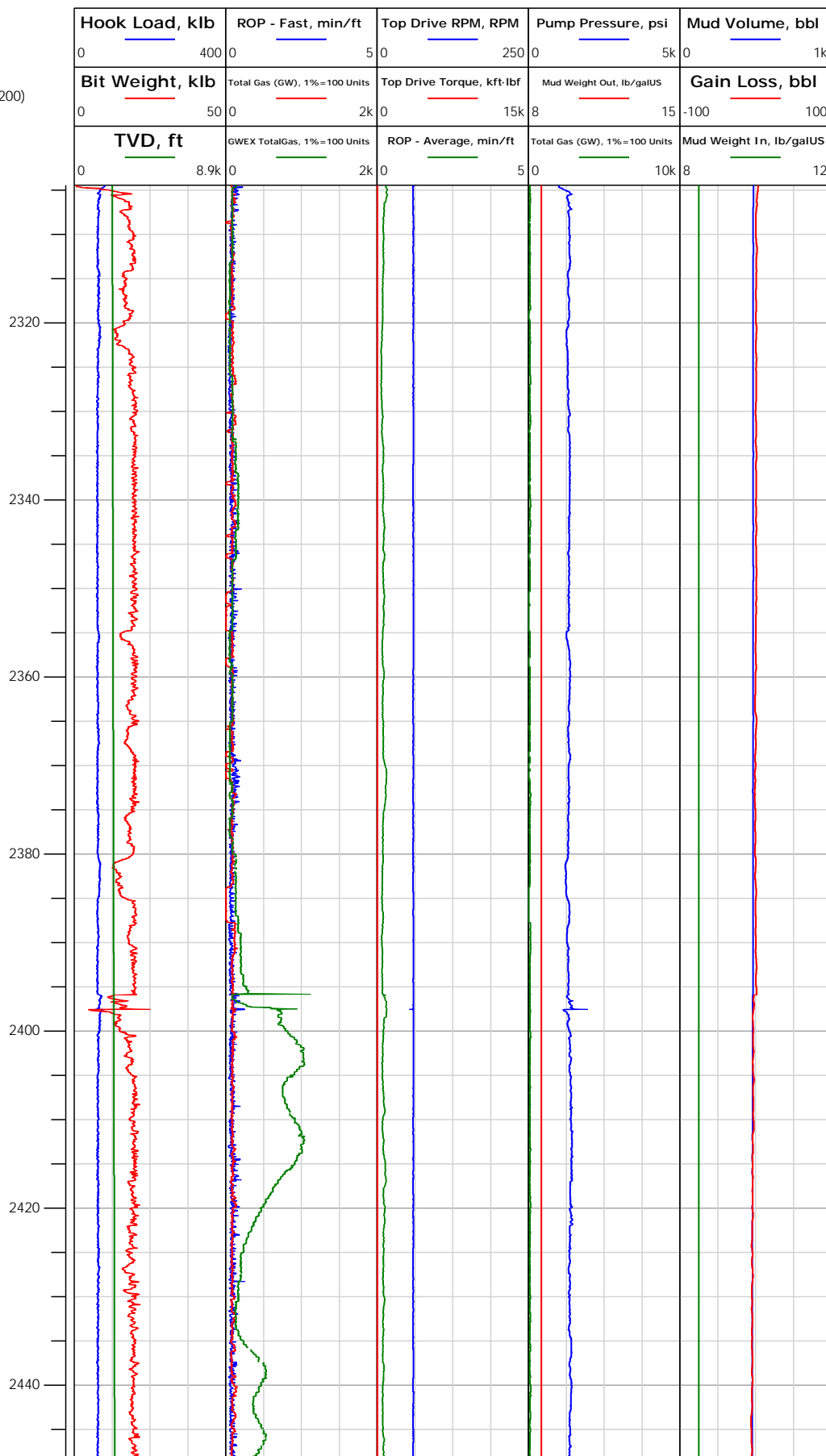
21:17

21:21

21:30

21:35

21:39



2305.78: MD IN WT 8.8/28  
VIS OUT WT 8.8/28 VIS

2342.00: Deviation Survey  
2342.00 ft, Deviation 17.8  
deg, Direction 290.2 deg

2401.64: Rig Floor set Hole  
Depth from 2400.49 ft to  
2396.00 ft

2437.00: Deviation Survey  
2437.00 ft, Deviation 17.6  
deg, Direction 289.4 deg



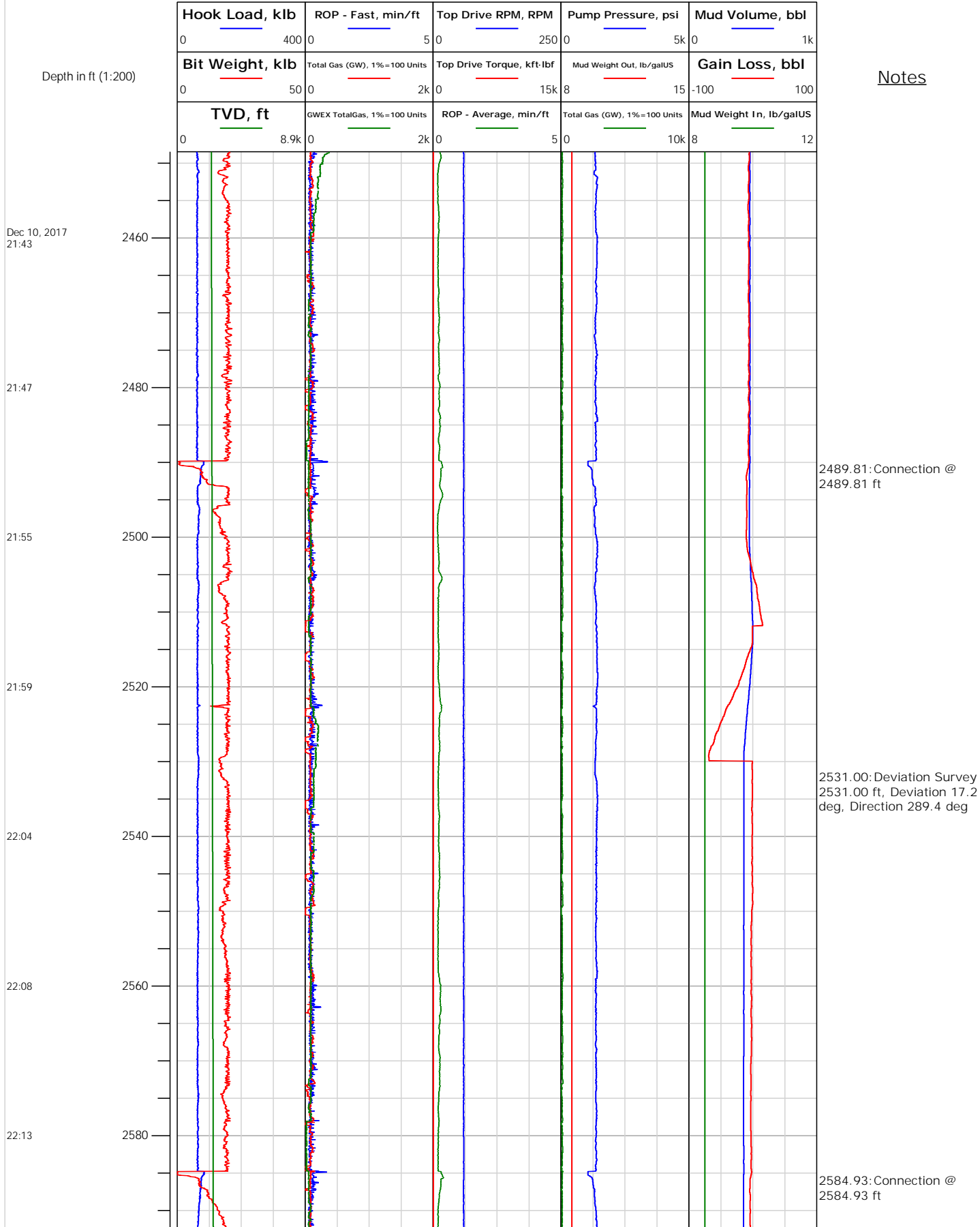
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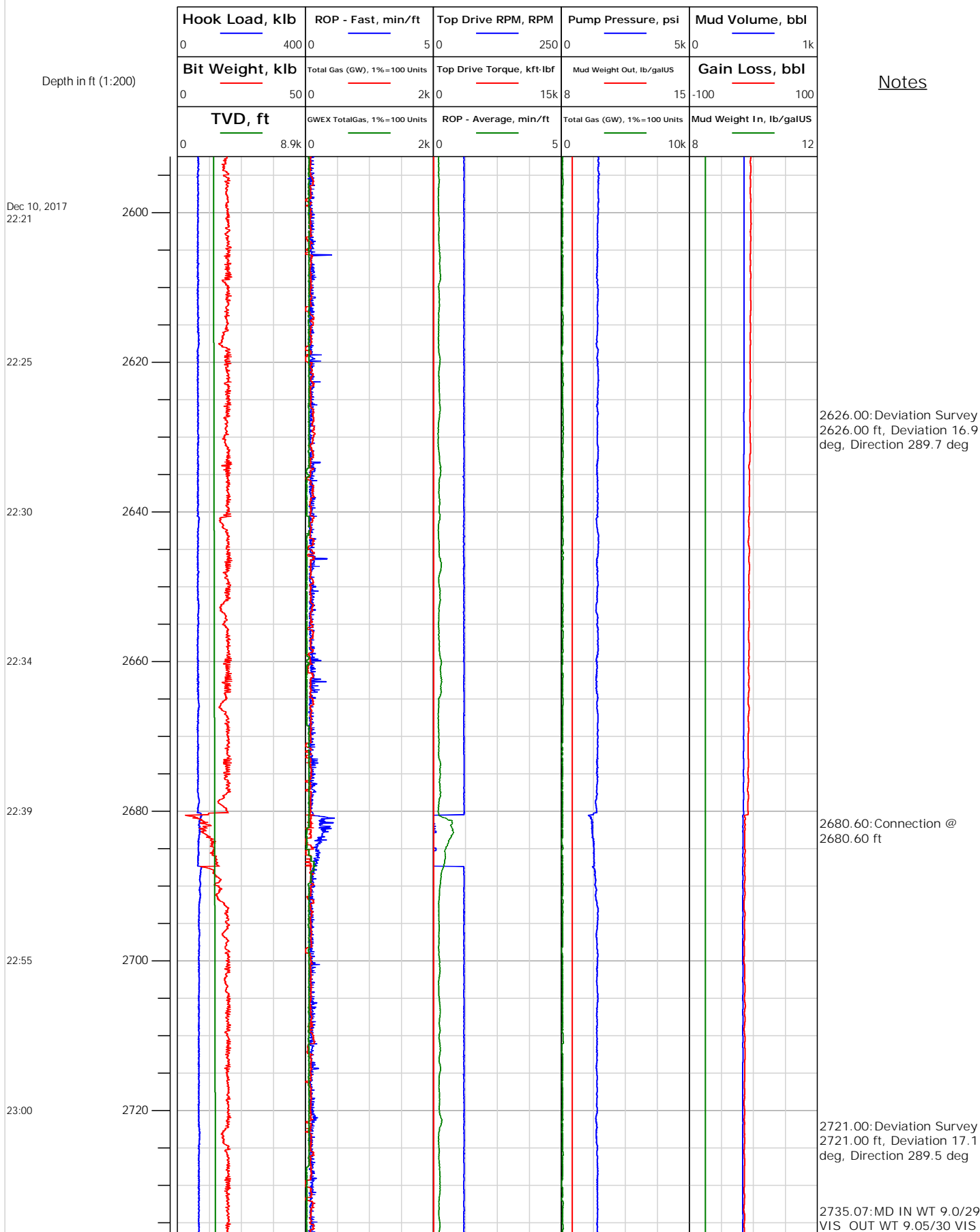
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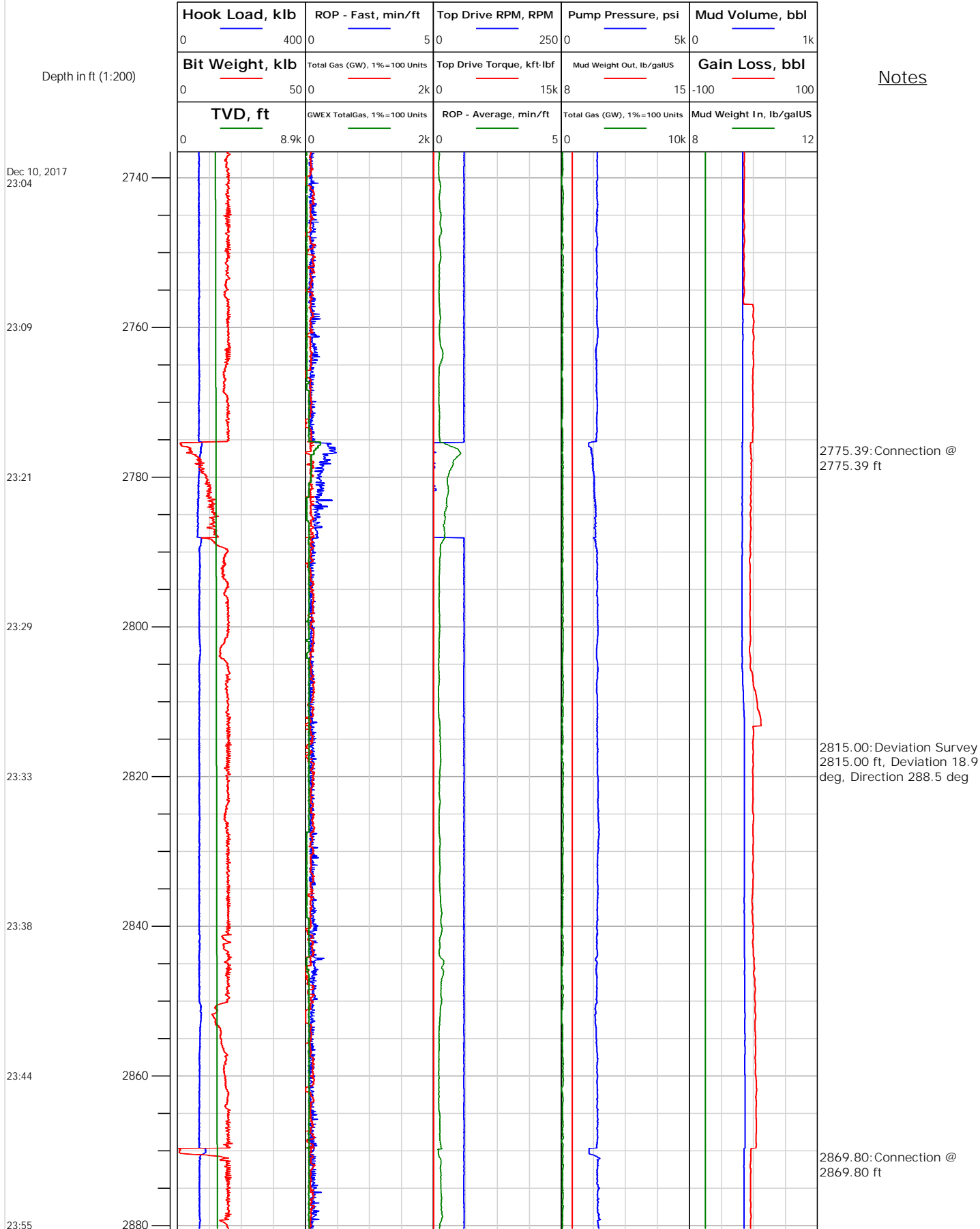
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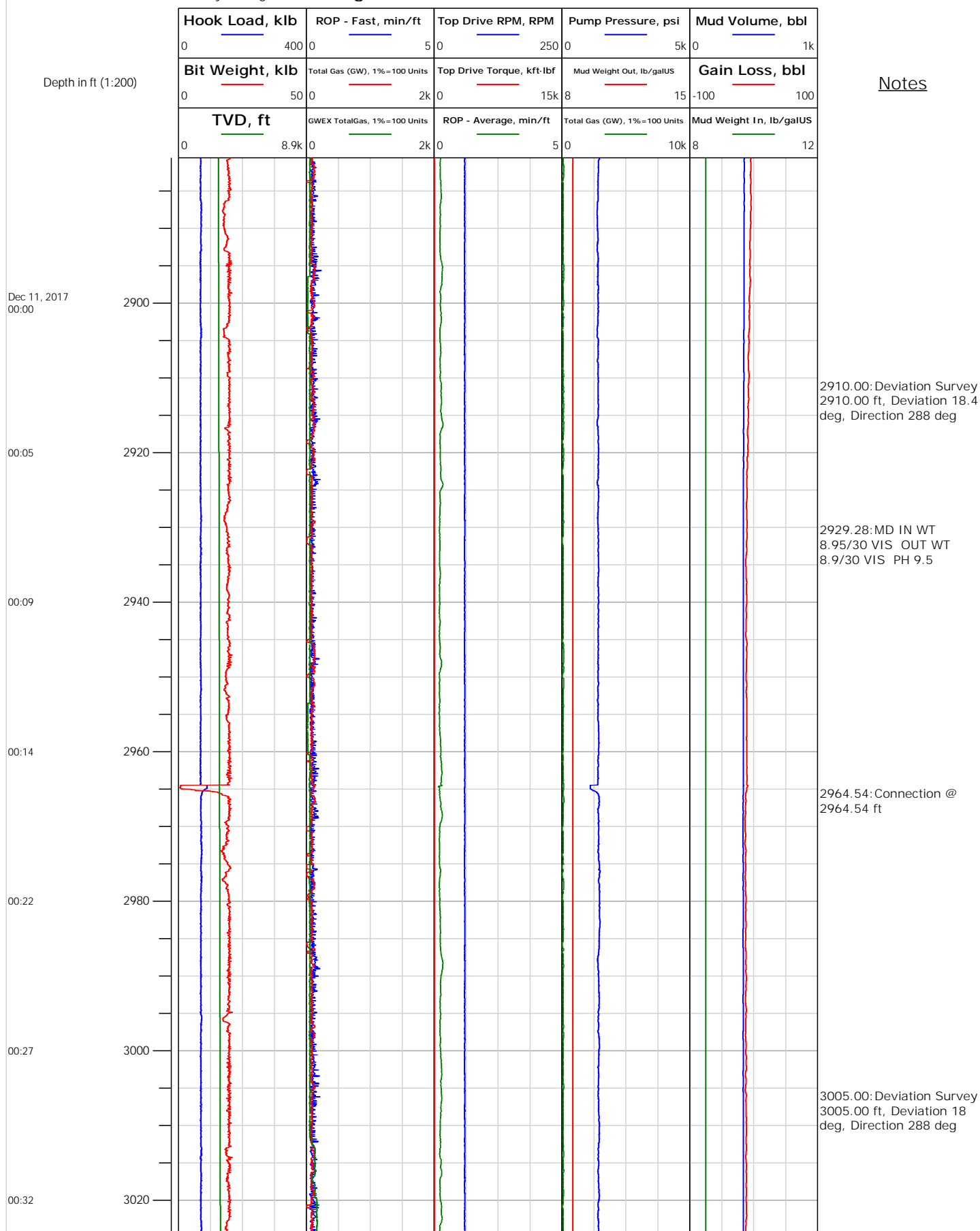
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Rig: 290

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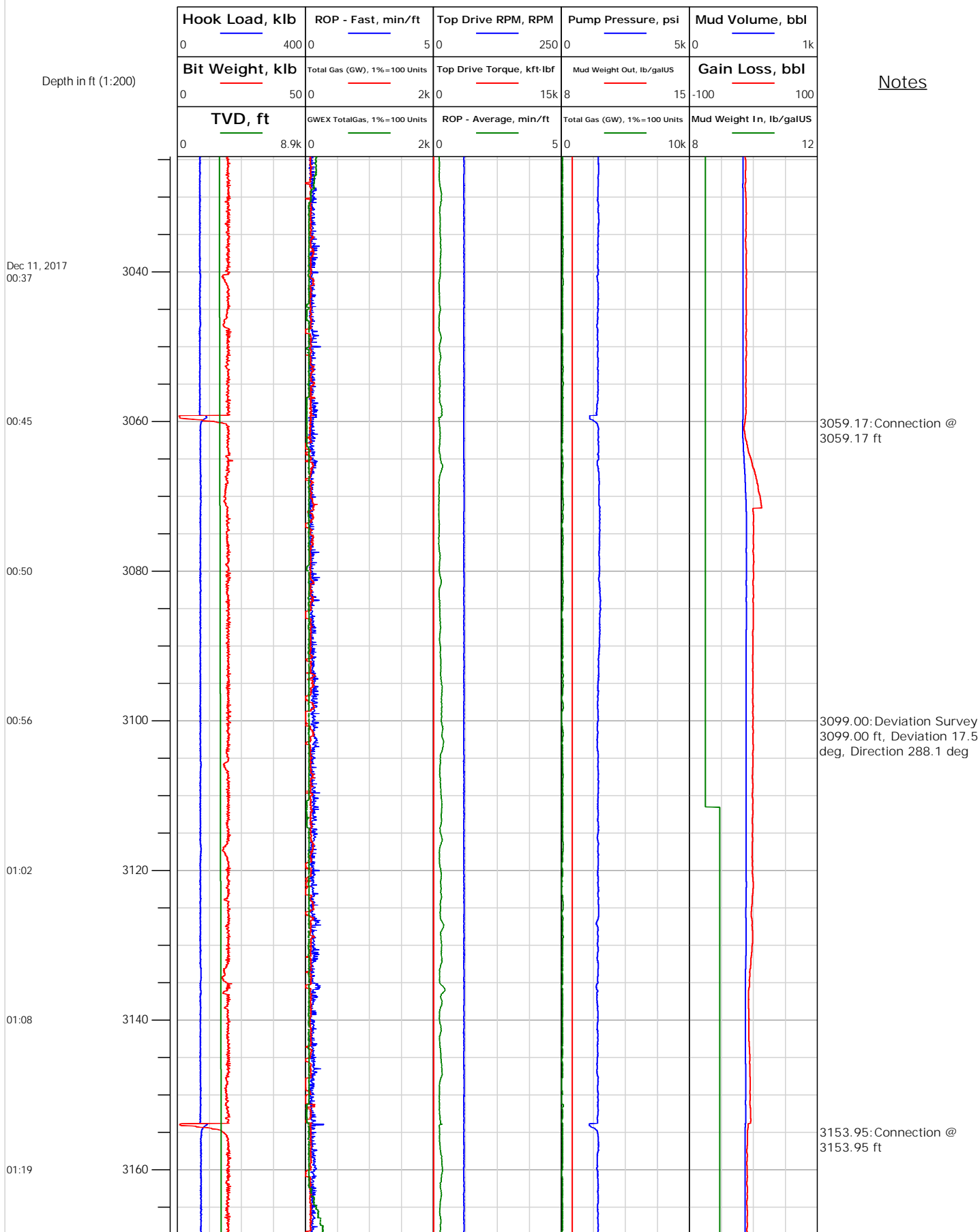
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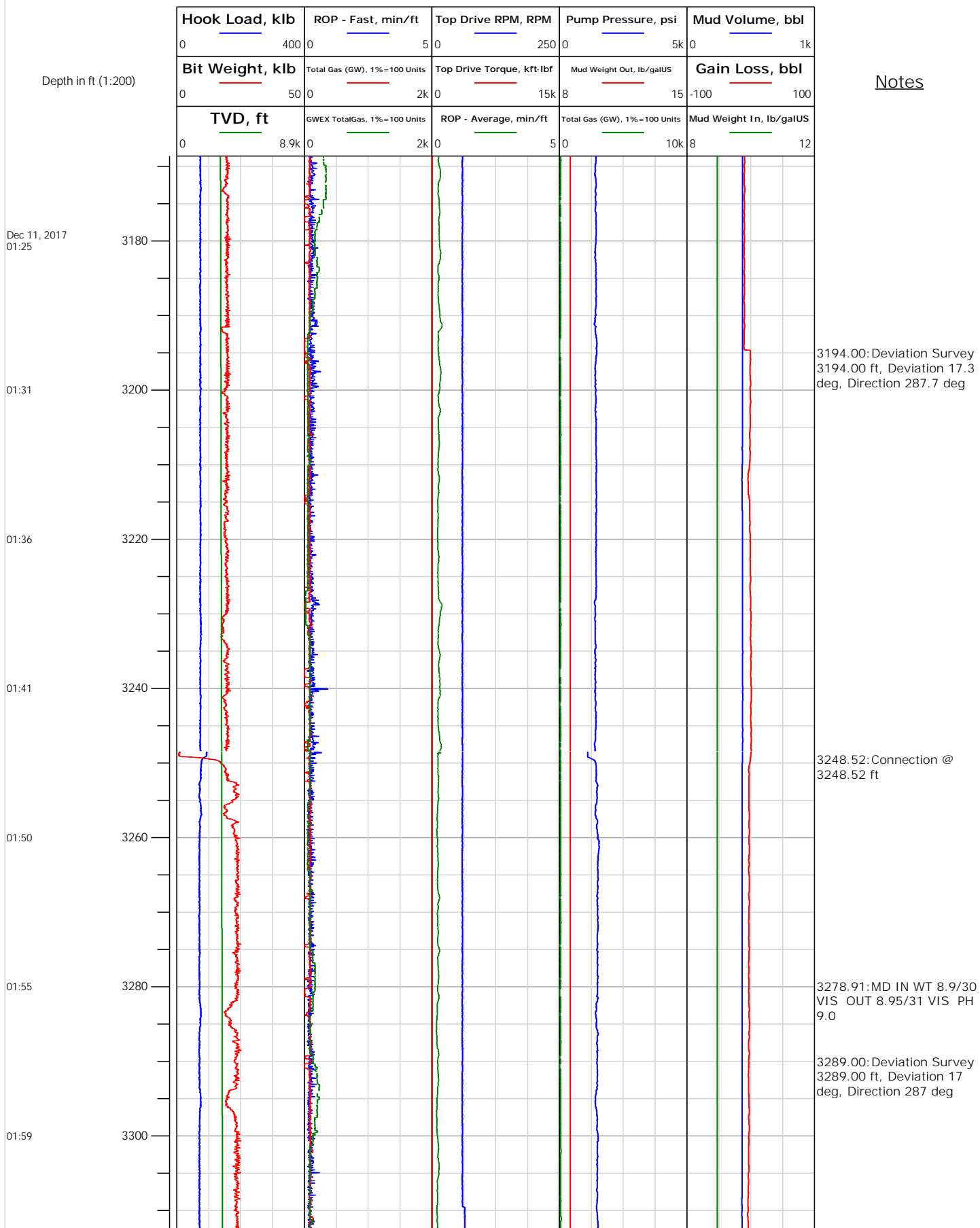
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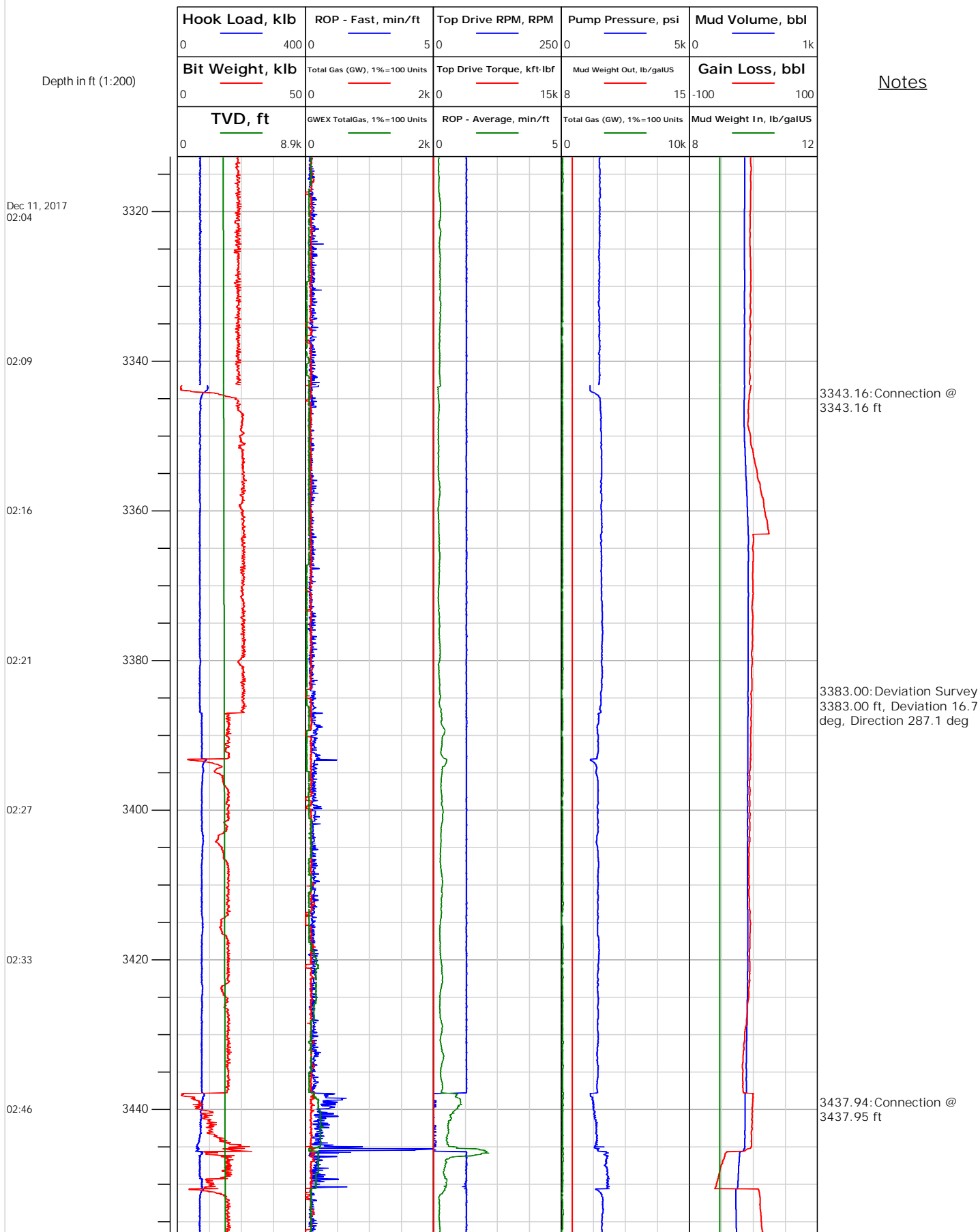
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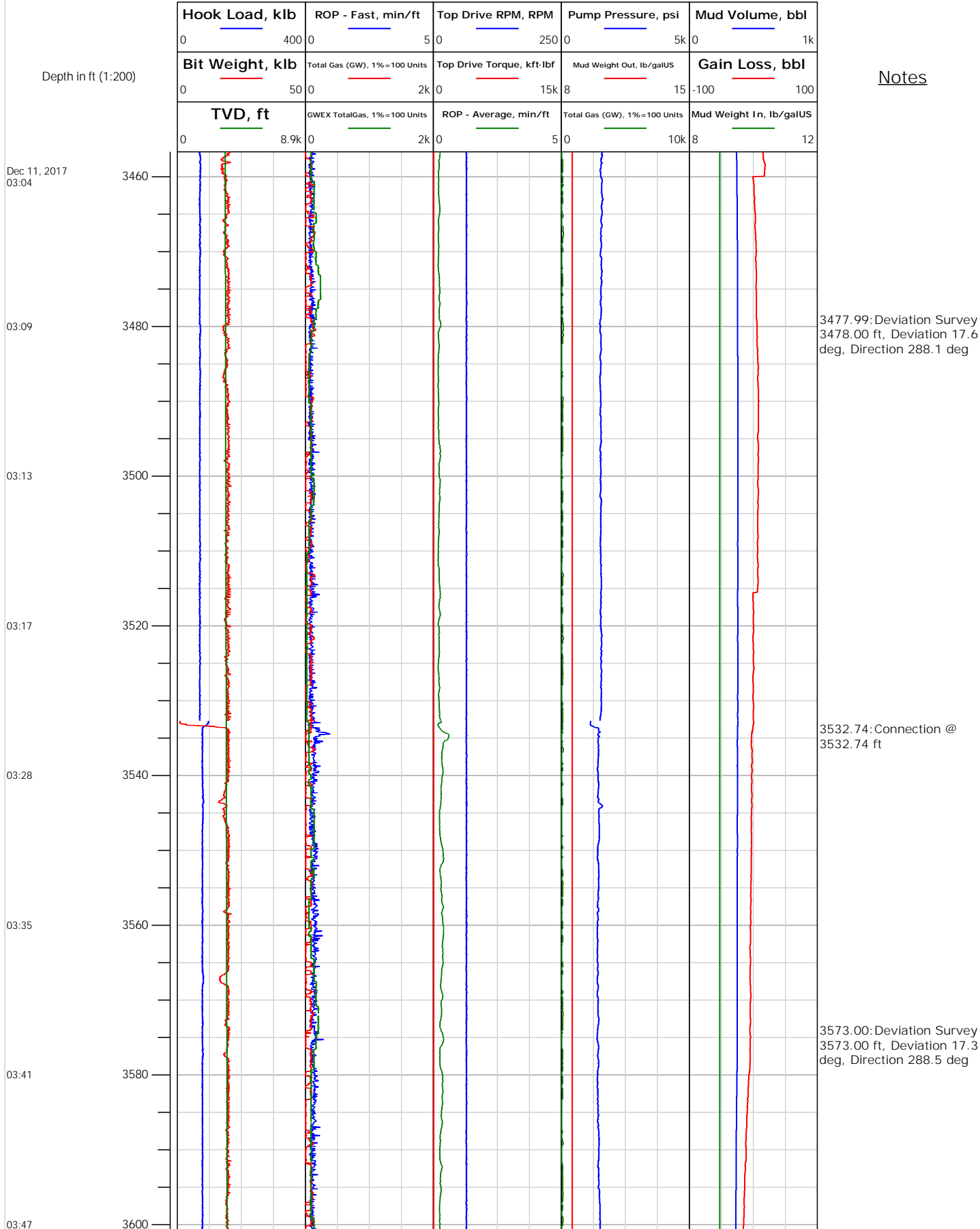
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Well Name: Nichols 24-06W  
Rig: 290

Location: SW/4 of NE/4

## Notes

Depth in ft (1:200)

Dec 11, 2017  
03:53

04:02

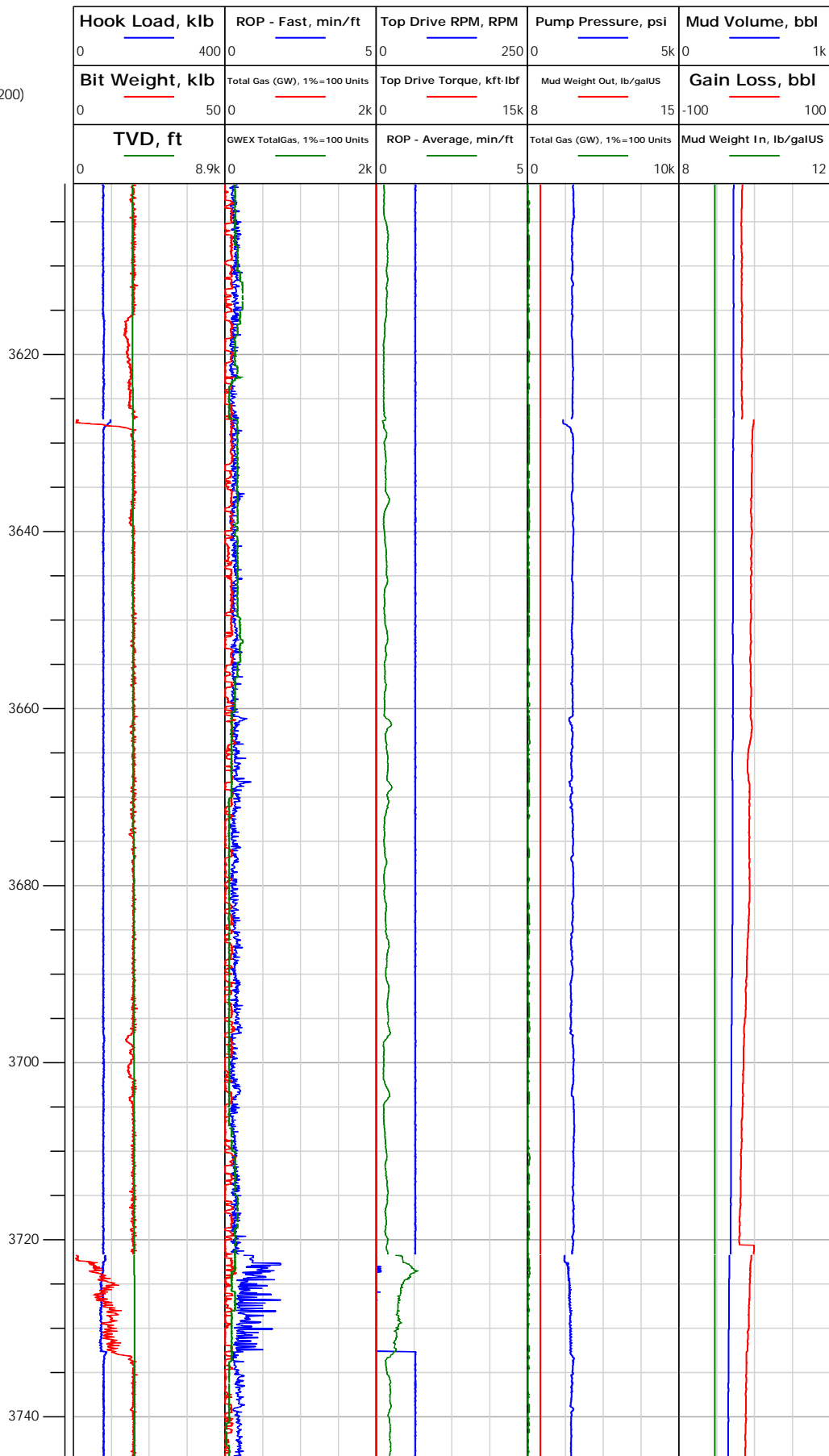
04:08

04:15

04:22

04:28

04:46



3627.27: Connection @  
3627.27 ft  
3628.21: MD IN WT 9.2/34  
VIS OUT 9.0/34 VIS PH  
9.2

3667.00: Deviation Survey  
3667.00 ft, Deviation 16.9  
deg, Direction 288.4 deg

3721.83: Connection @  
3721.83 ft





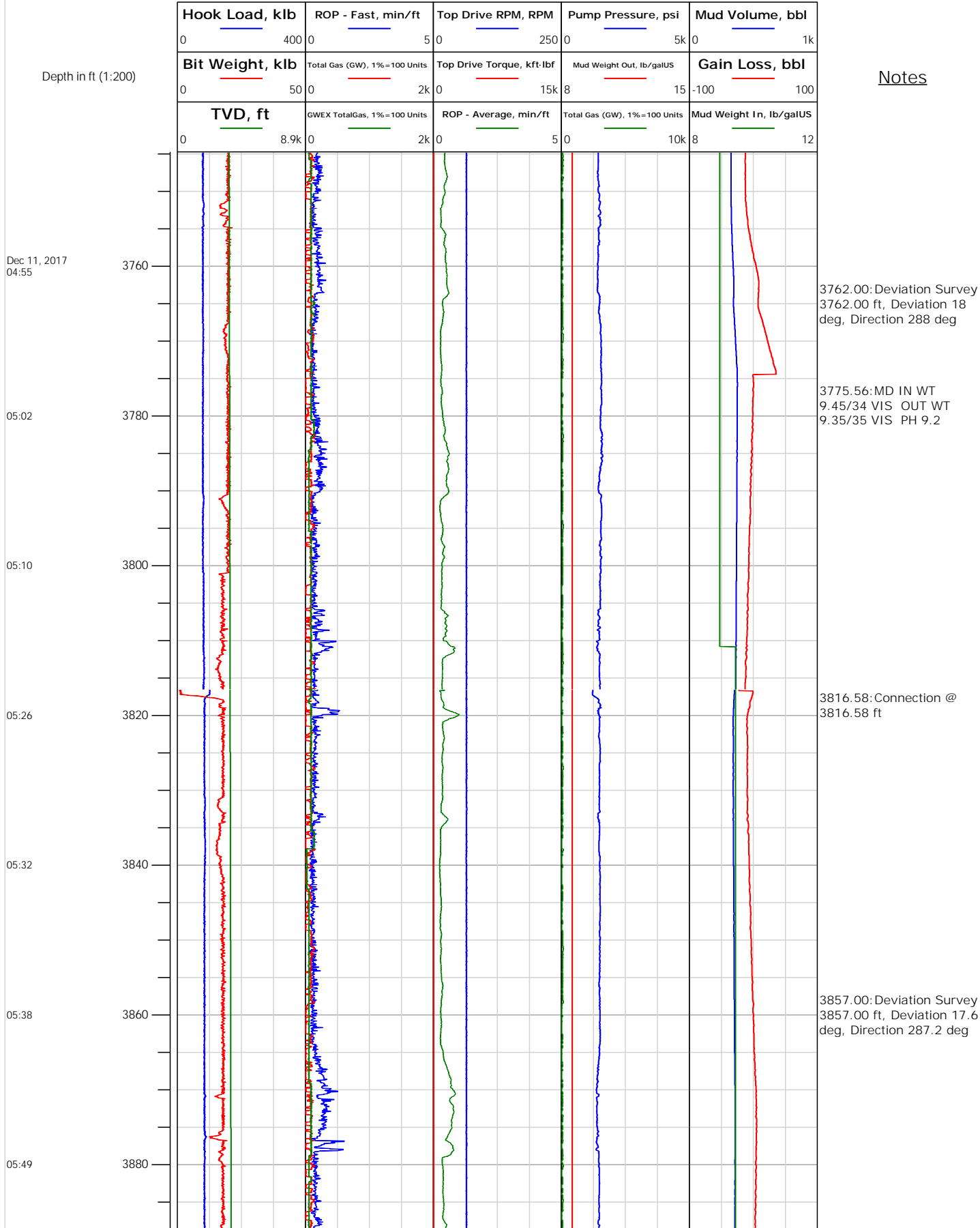
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**Rig:** 290

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## Notes





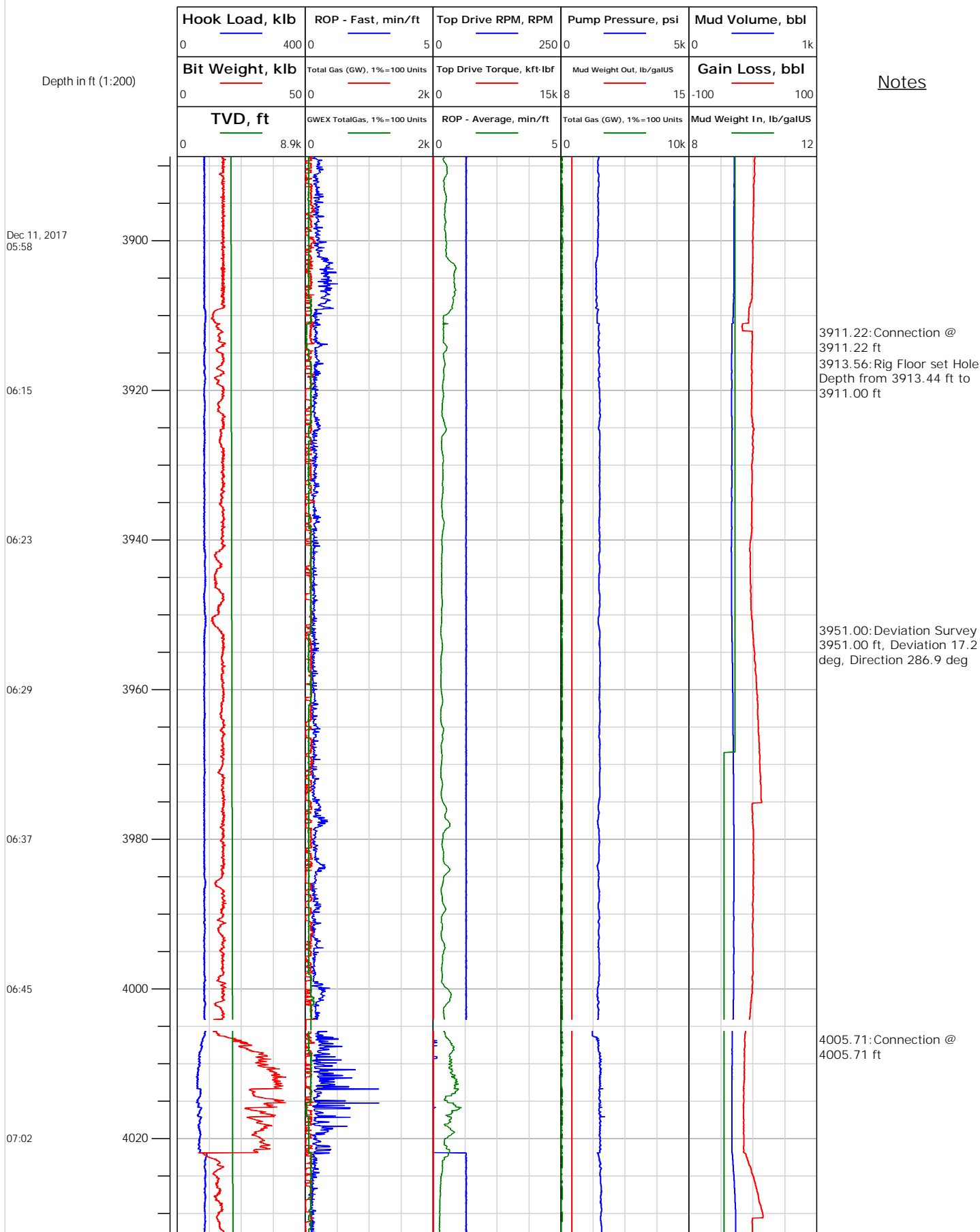
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**Rig:** 290

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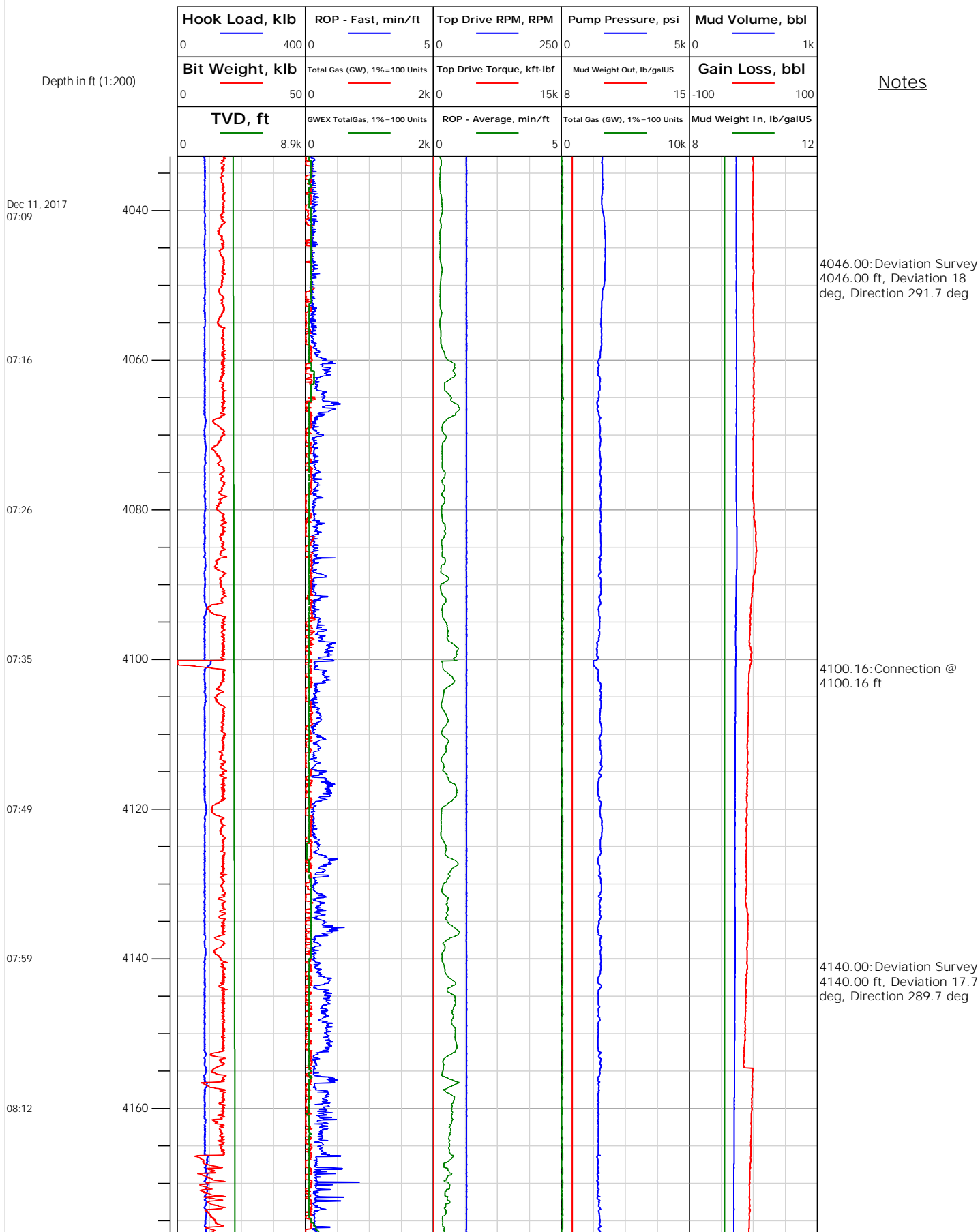
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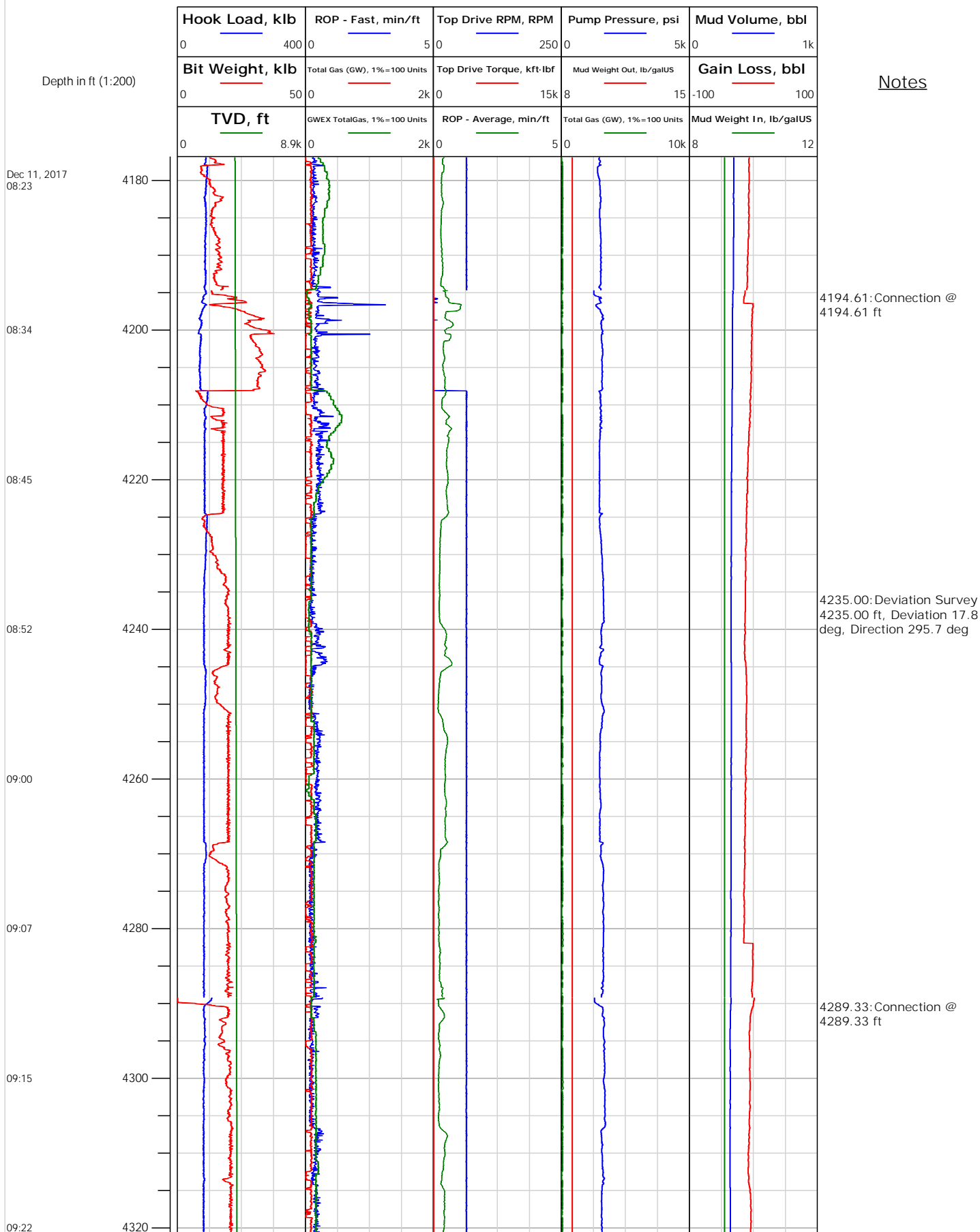
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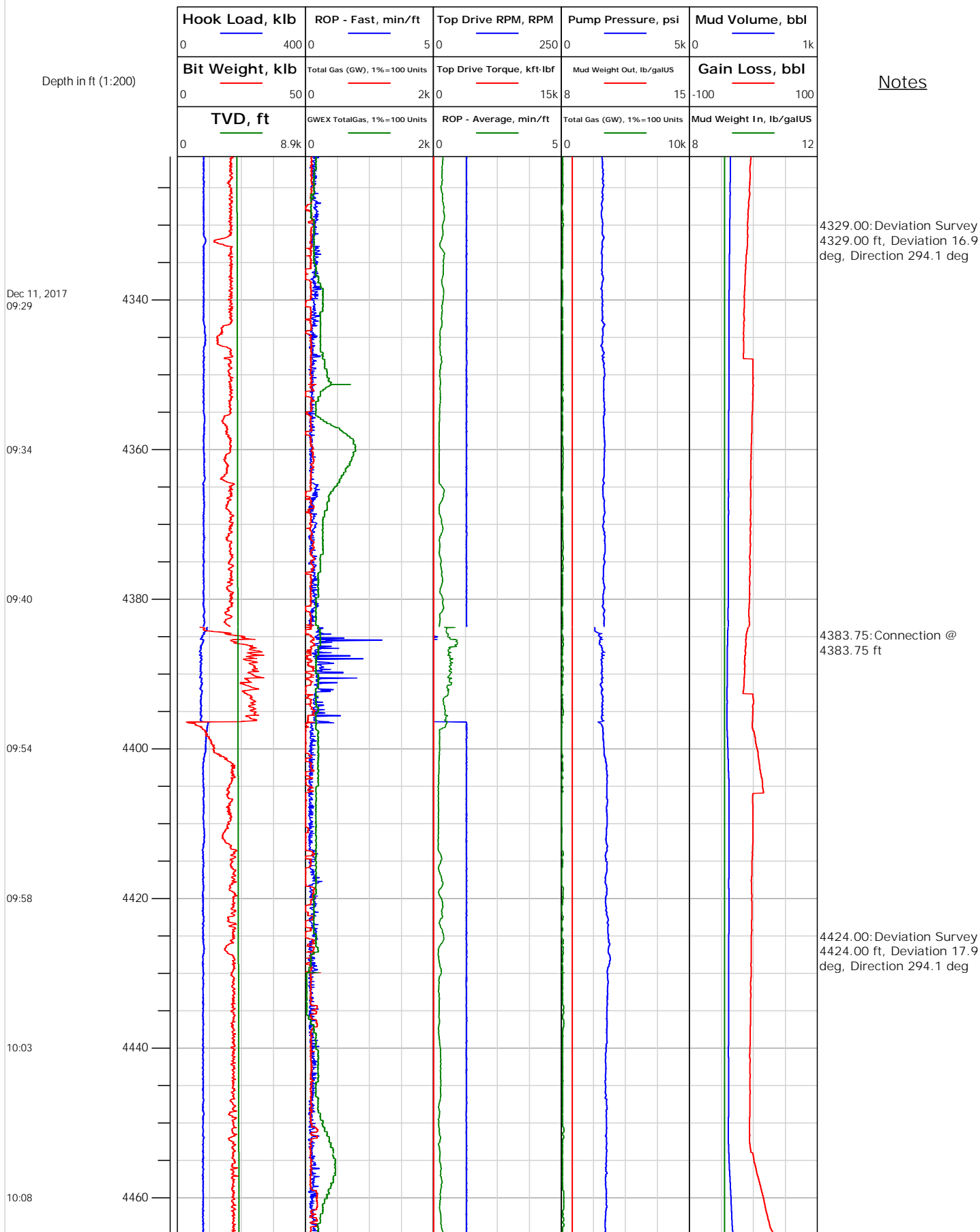
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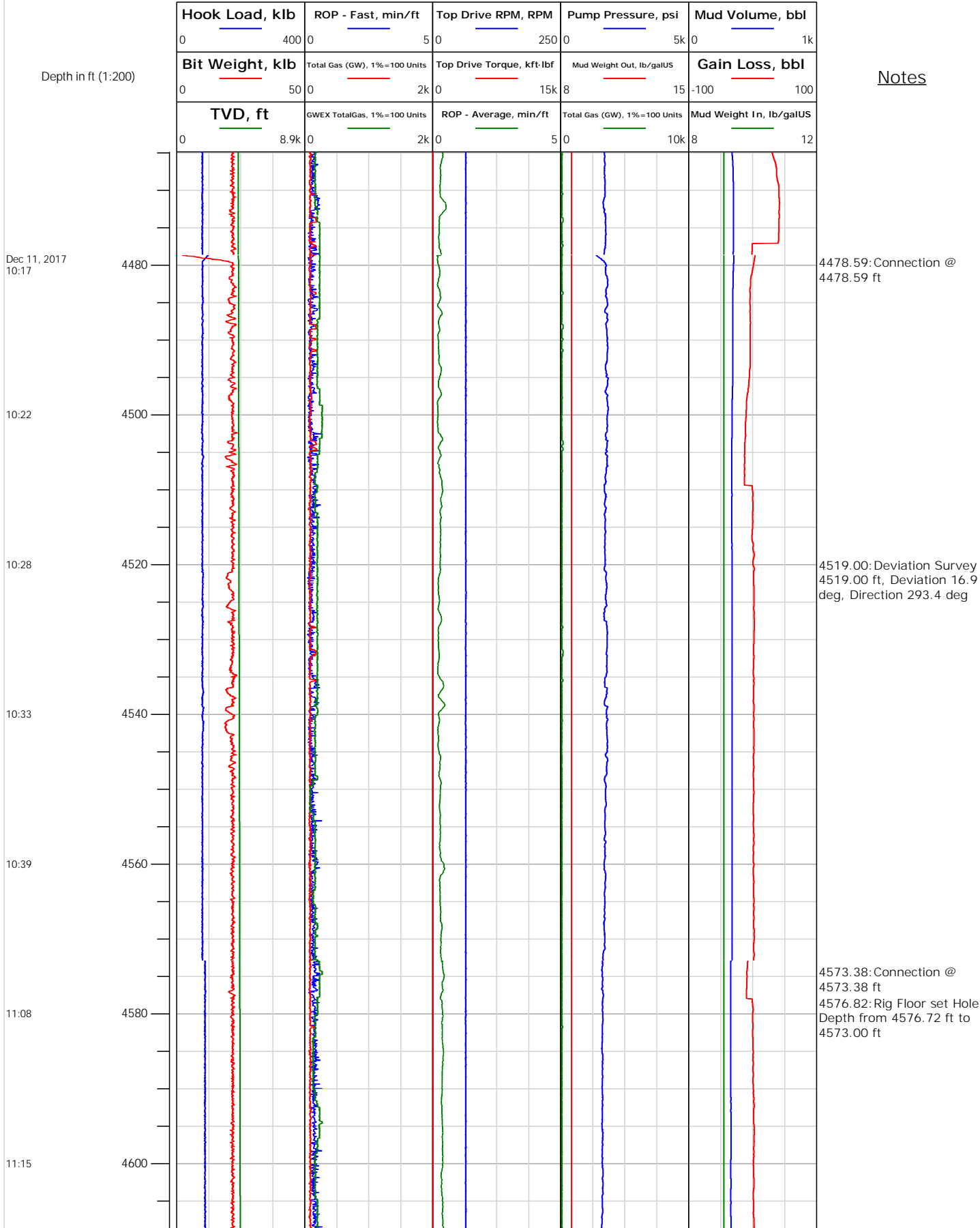
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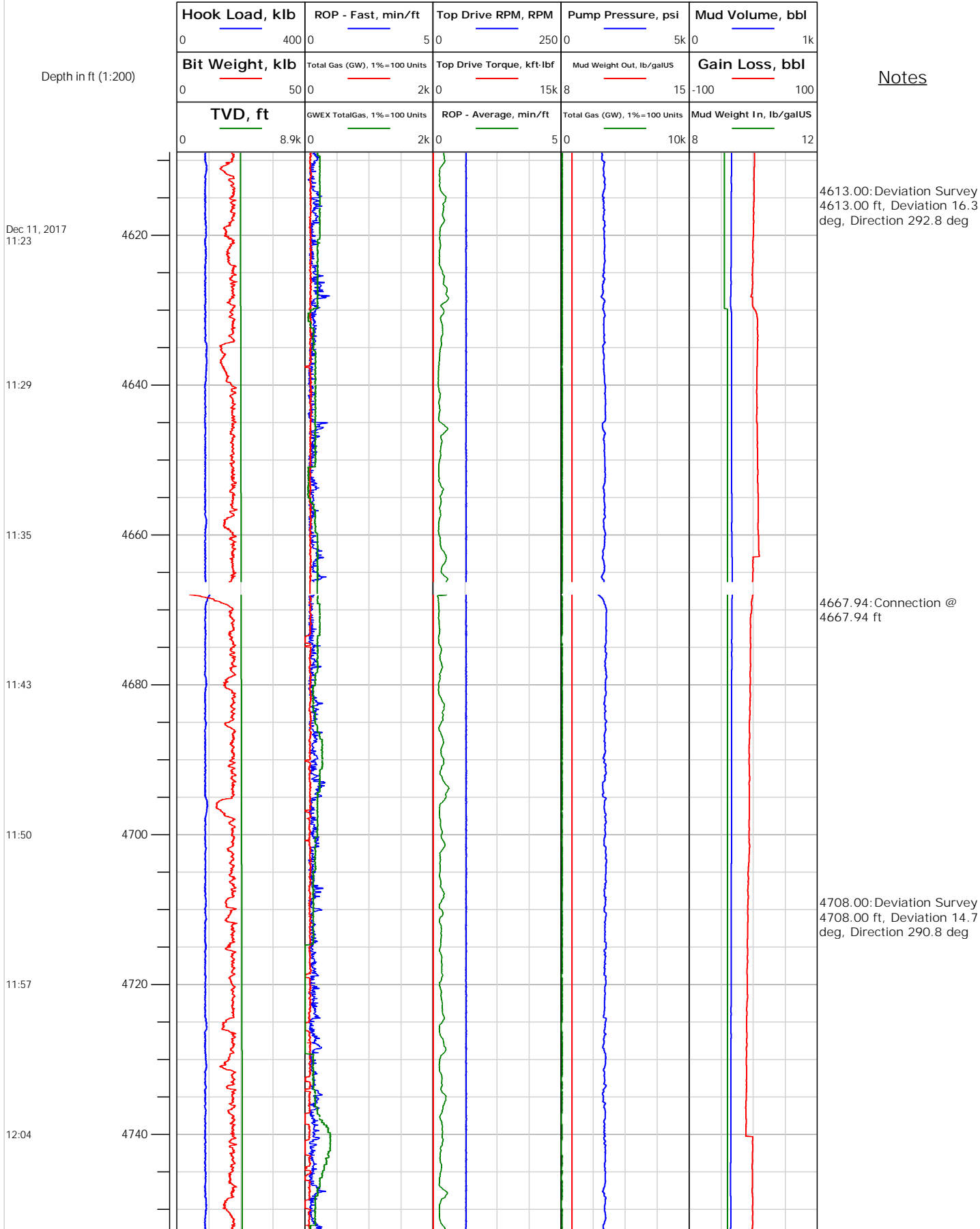
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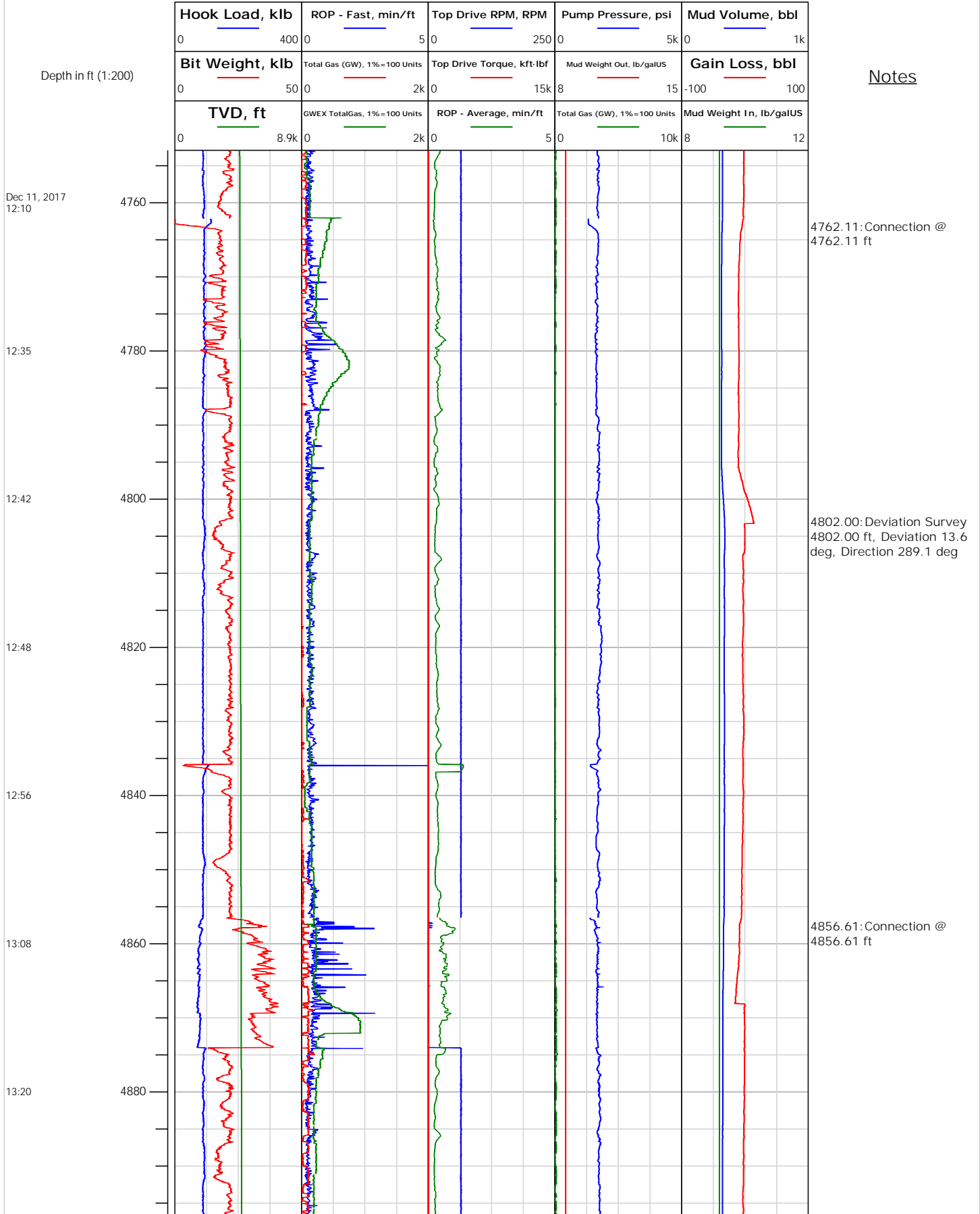
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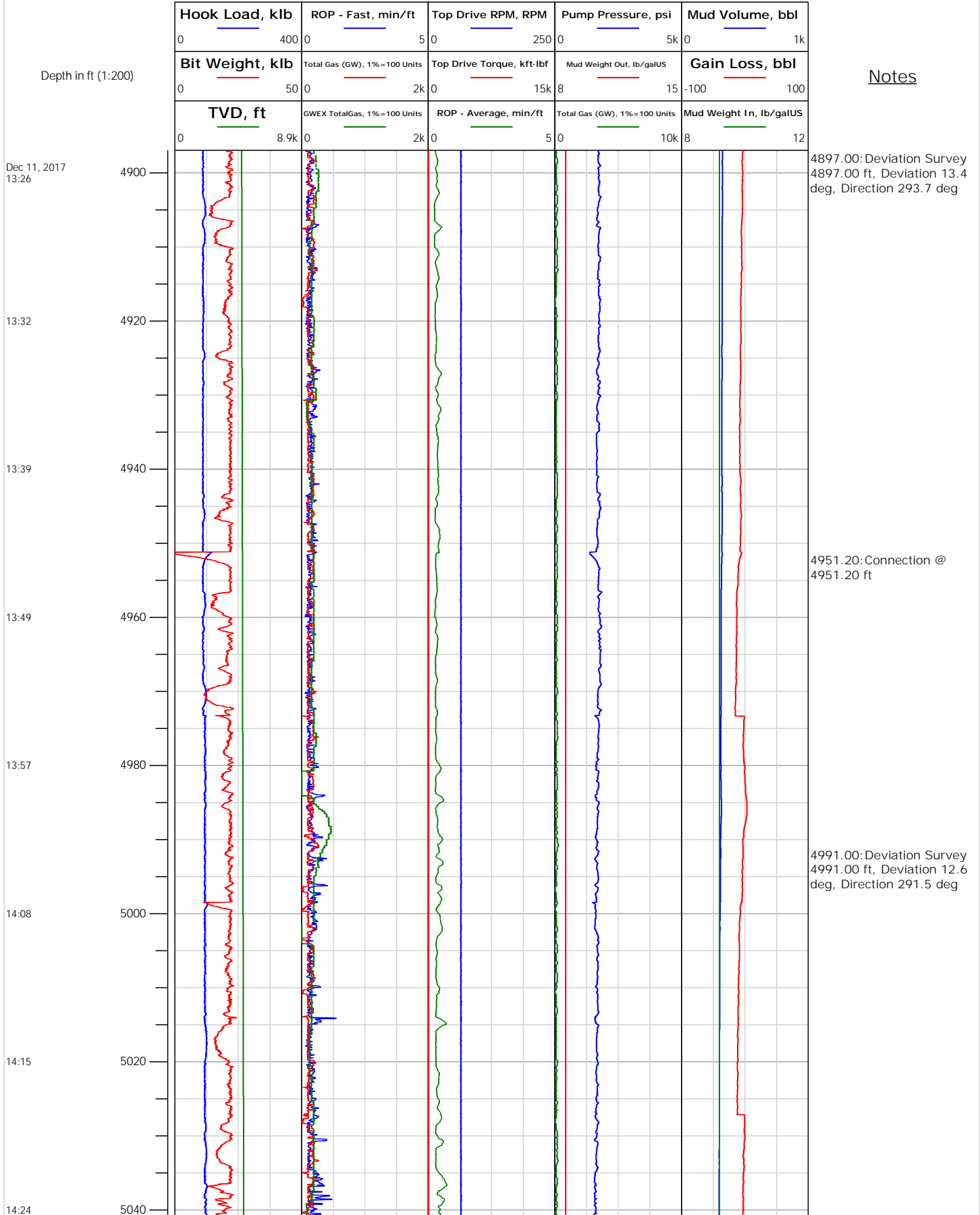
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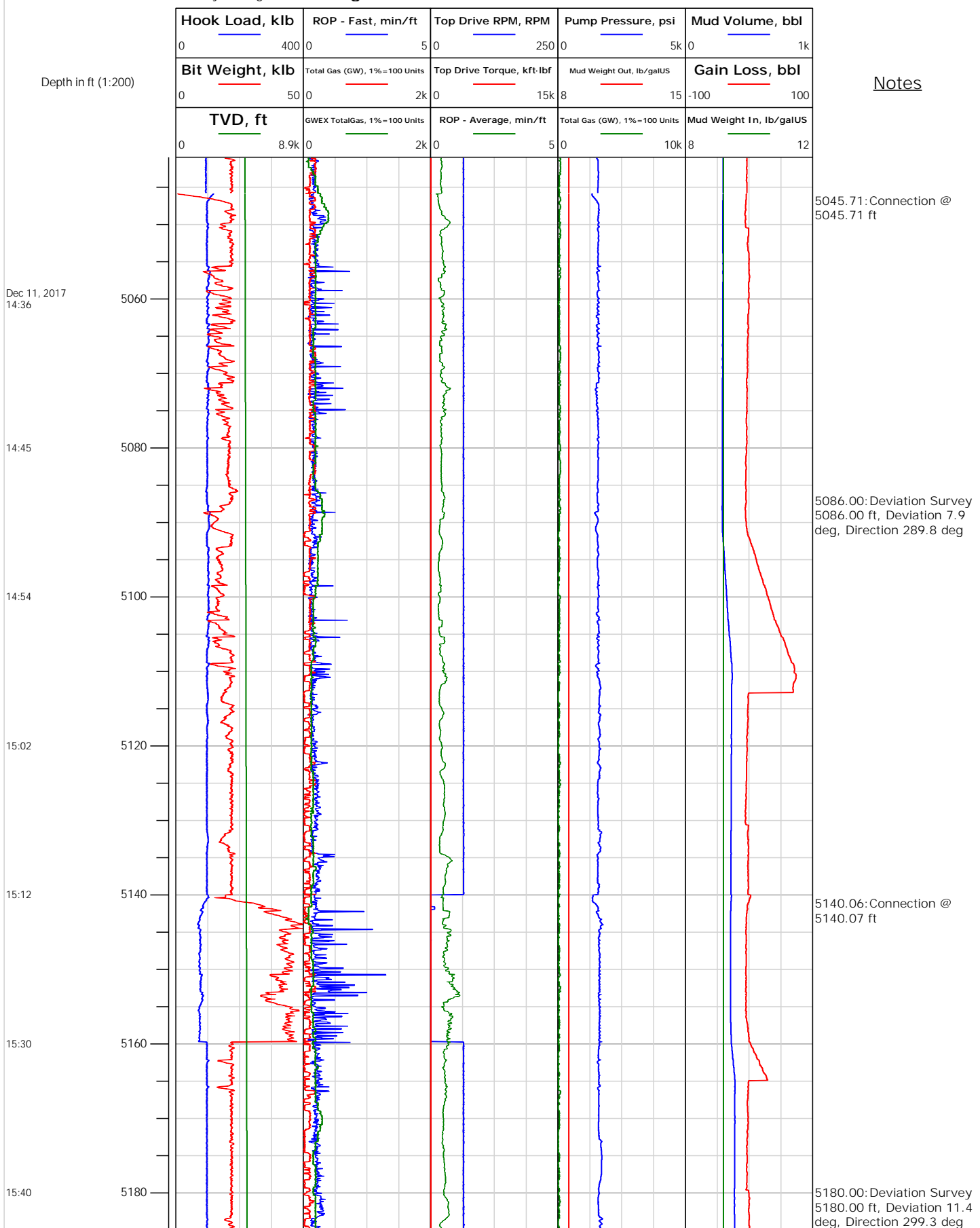
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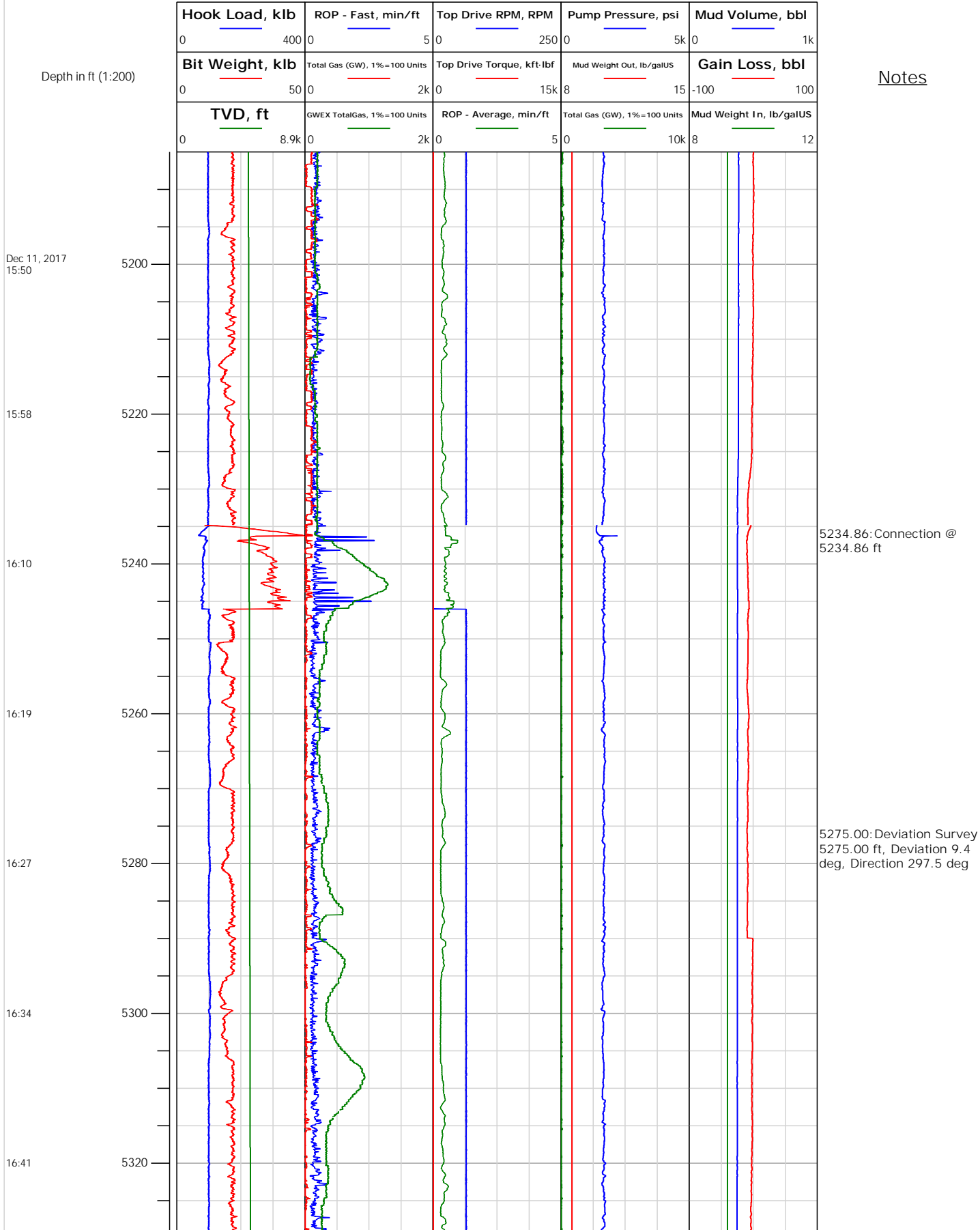
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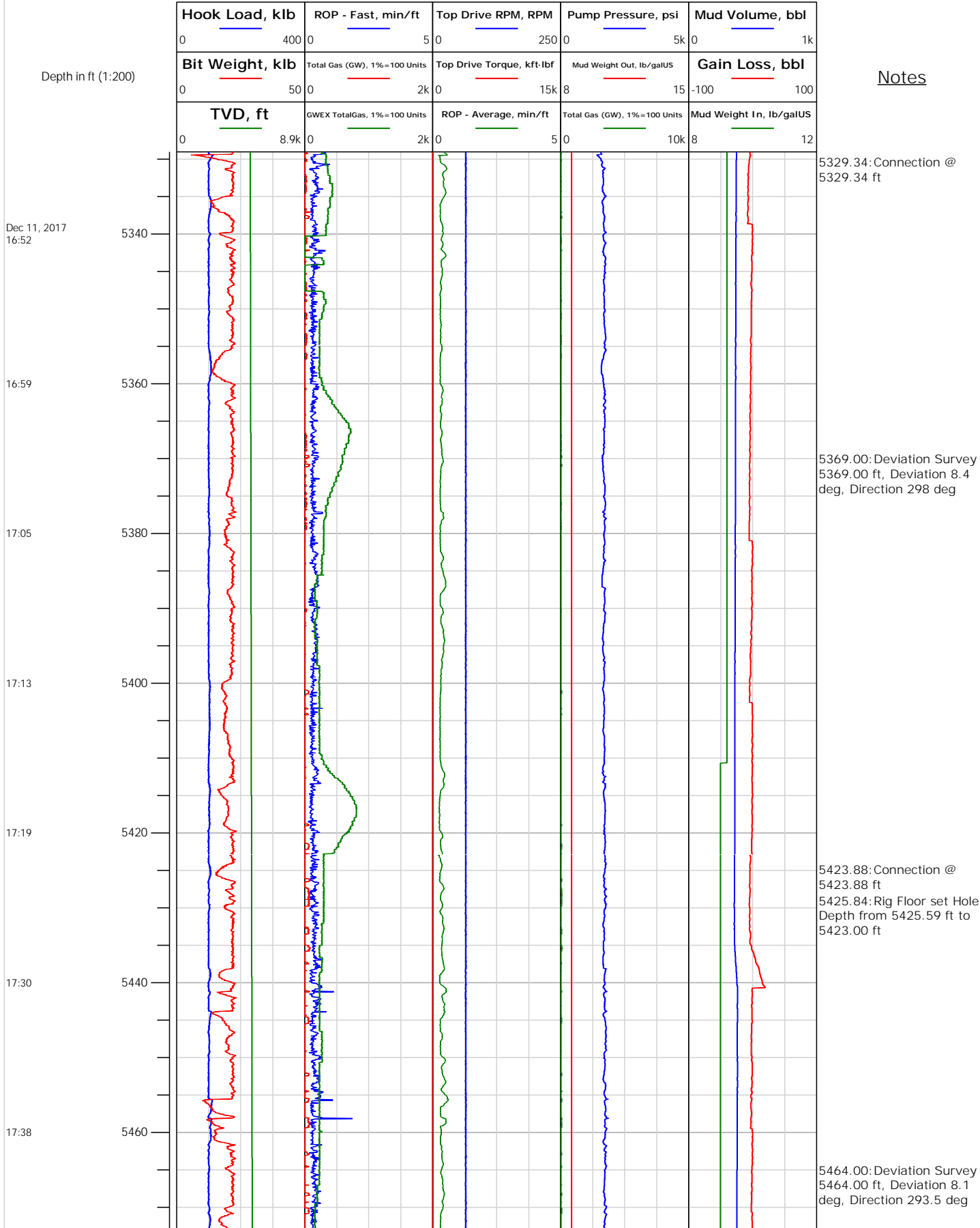
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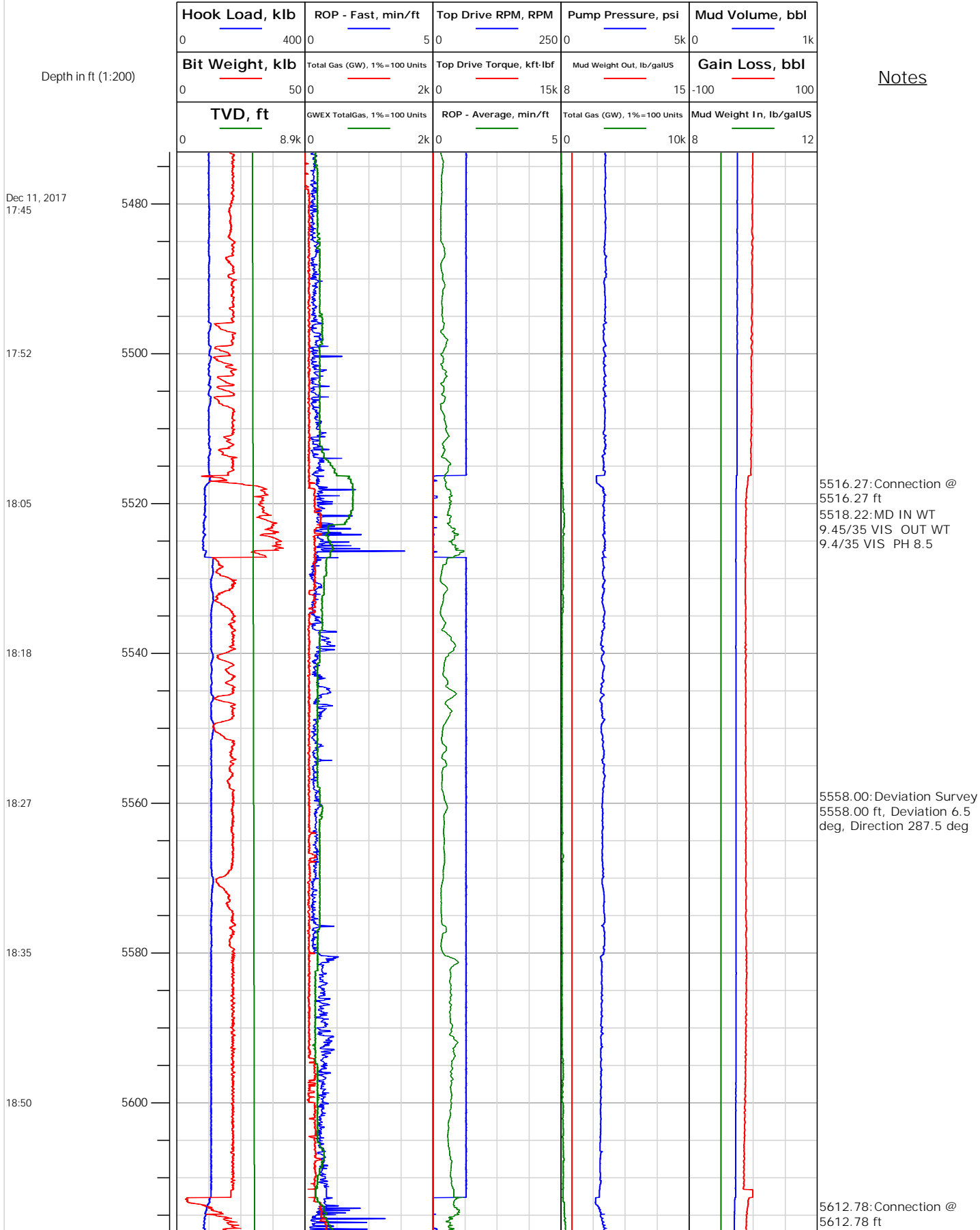
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Rig: 290

Location: SW/4 of NE/4

## Notes

Depth in ft (1:200)

Dec 11, 2017  
19:07

19:19

19:30

19:42

19:54

20:16

20:27

20:40

5620

5640

5660

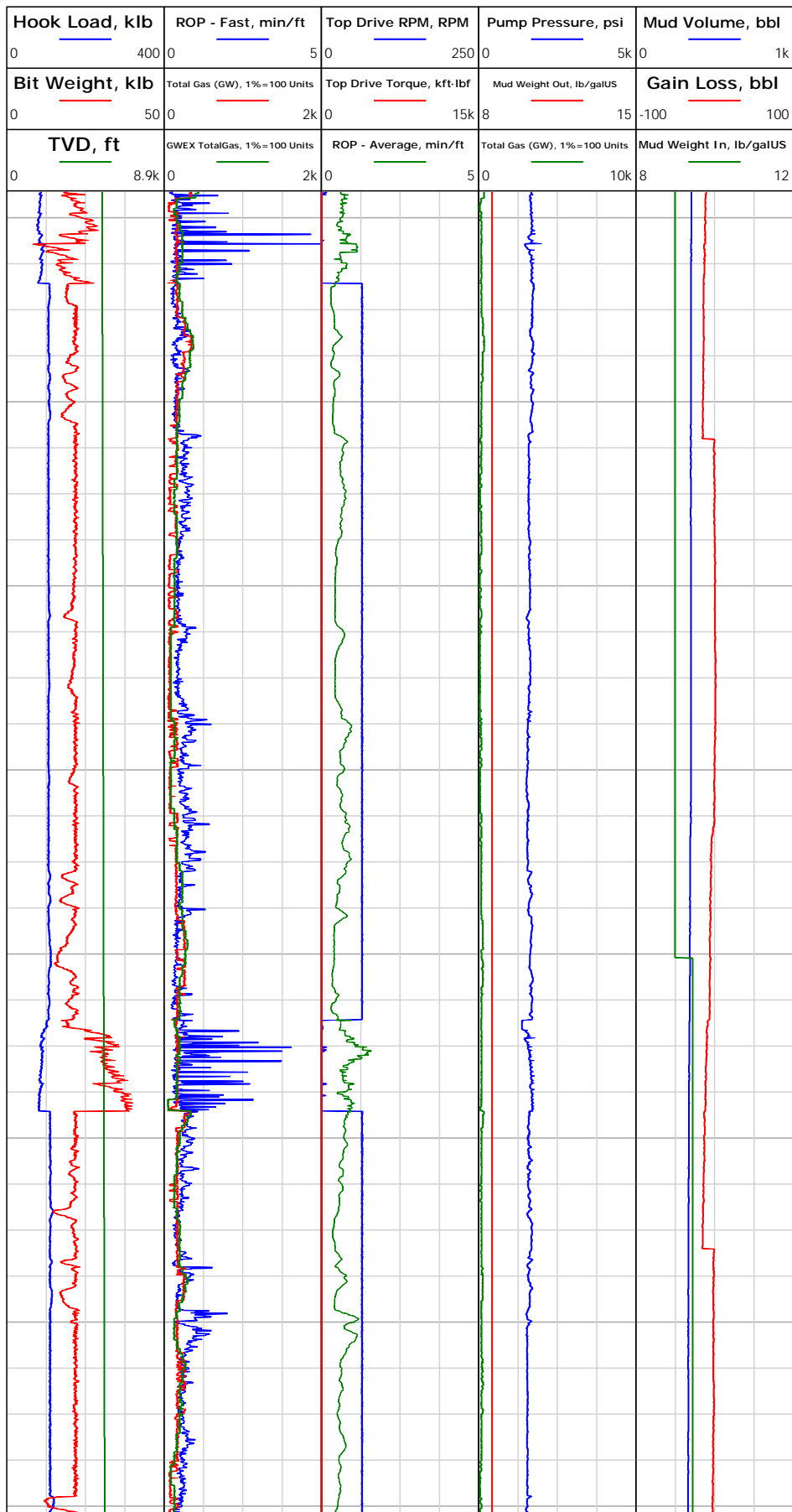
5680

5700

5720

5740

5760



5653.00: Deviation Survey  
5653.00 ft, Deviation 3.9  
deg, Direction 291.4 deg

5703.91: MD IN WT  
9.45/35 VIS OUT WT  
9.4/35 VIS PH 8.5  
5707.23: Connection @  
5707.23 ft  
5709.25: MD IN WT 9.4/35  
VIS OUT WT 9.45/35 VIS  
PH 8.5

5747.00: Deviation Survey  
5747.00 ft, Deviation 3  
deg, Direction 301.2 deg



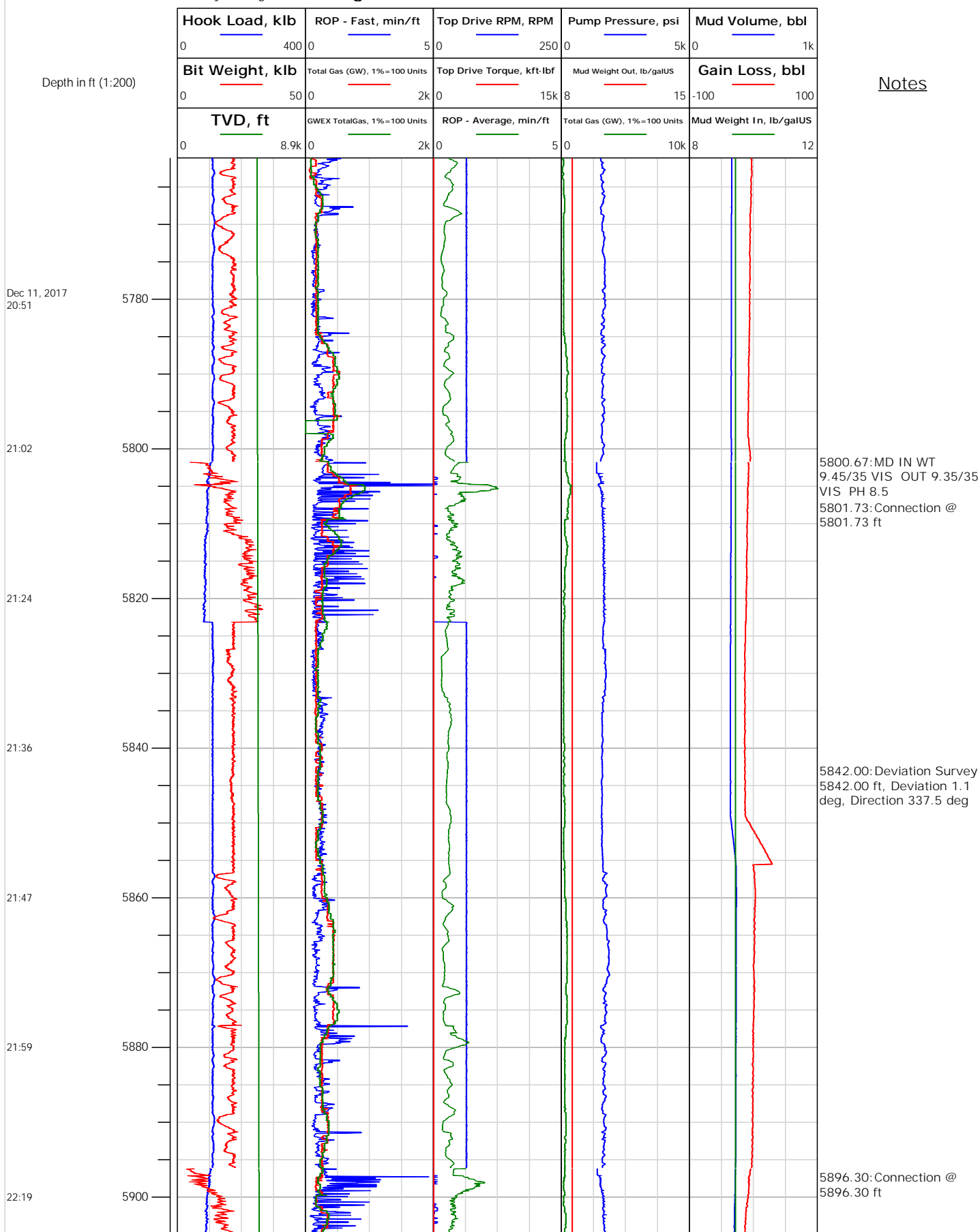
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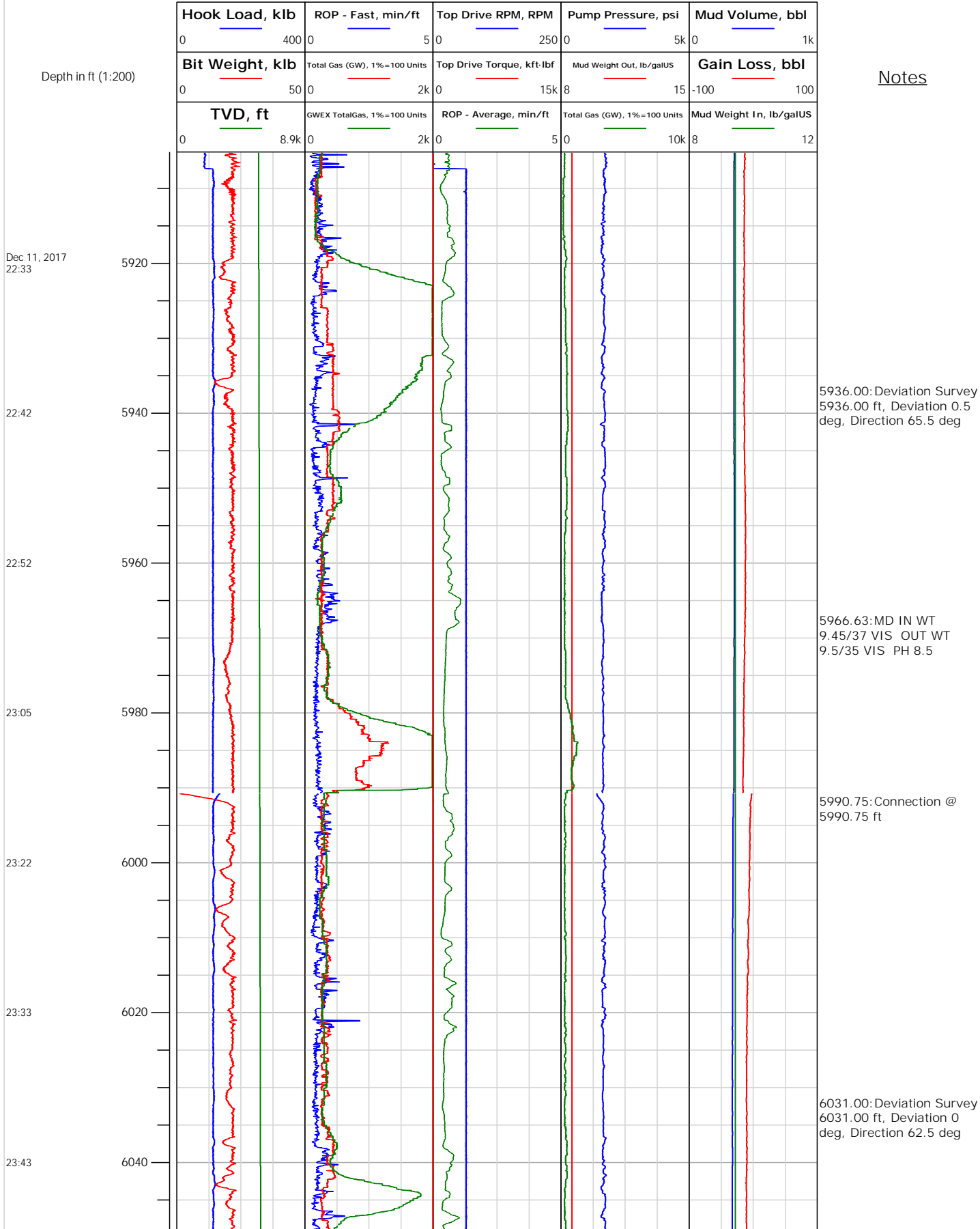
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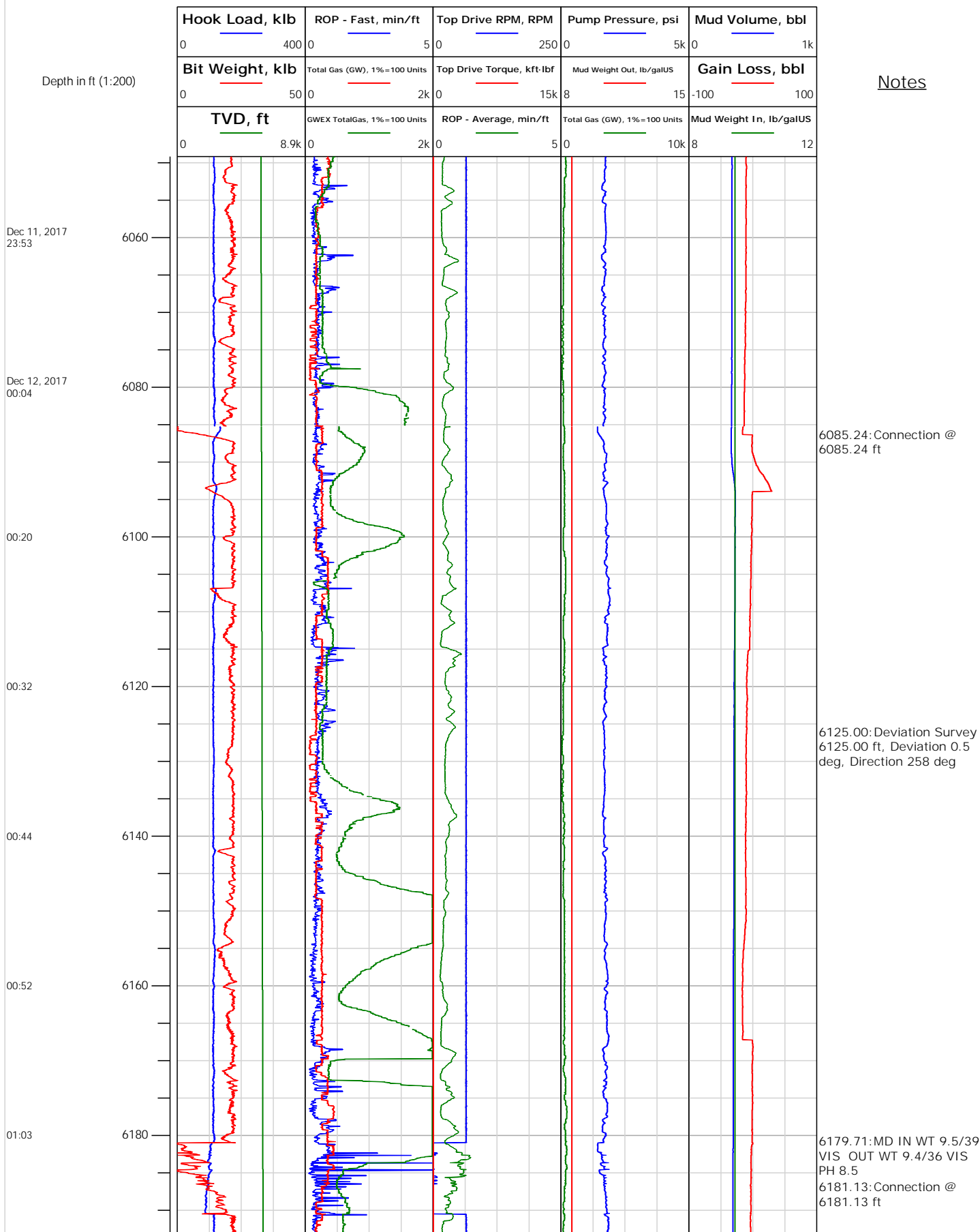
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**Rig:** 290

**Location:** SW/4 of NE/4

## Notes

Depth in ft (1:200)

Dec 12, 2017  
01:20

01:29

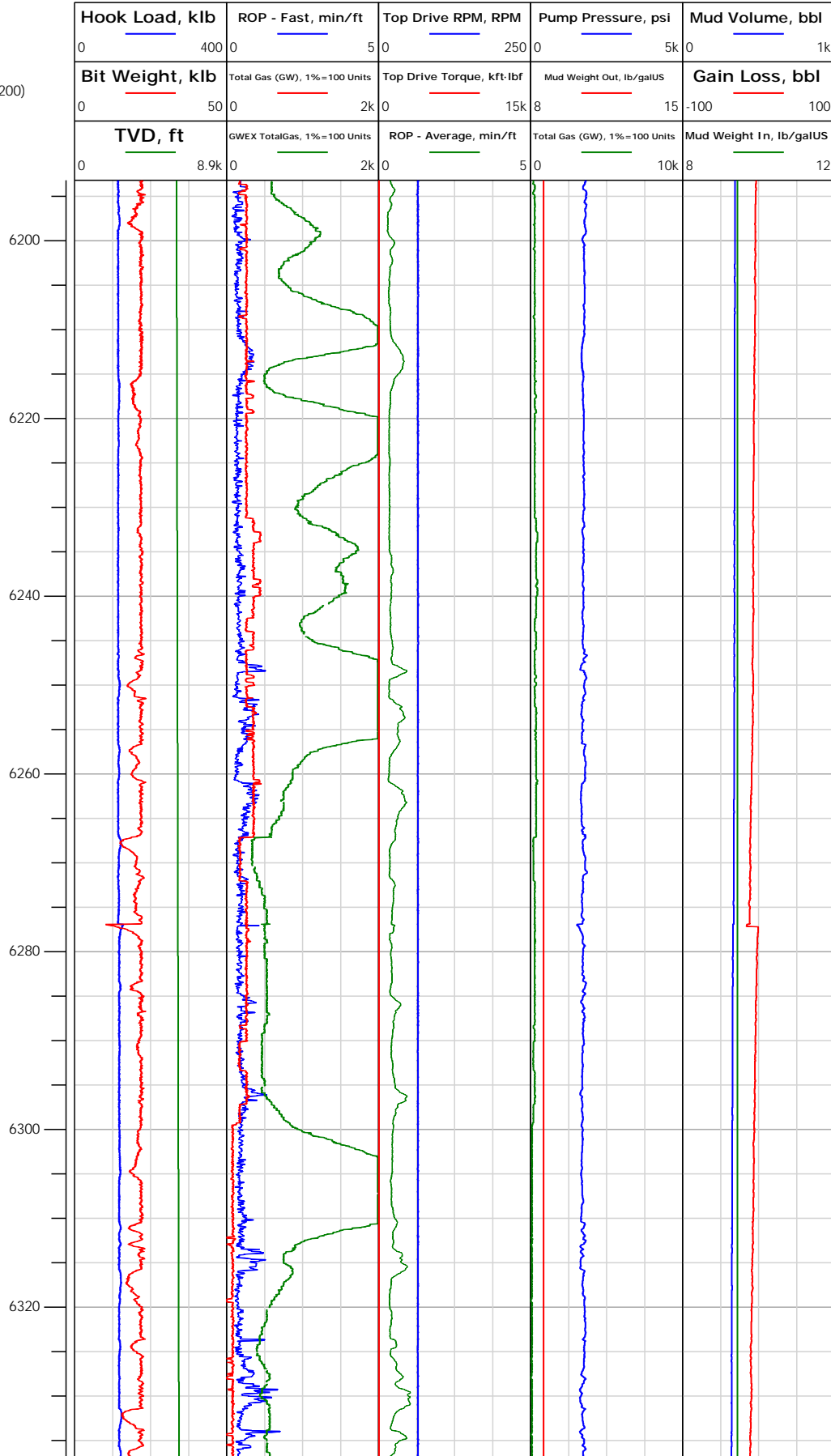
01:36

01:46

02:02

02:12

02:22



6220.00: Deviation Survey  
6220.00 ft, Deviation 0.1  
deg, Direction 21.9 deg

6277.01: Connection @  
6277.01 ft  
6280.92: MD IN WT 9.5/37  
VIS OUT 9.45/36 VIS PH  
8.3

6314.00: Deviation Survey  
6314.00 ft, Deviation 0.1  
deg, Direction 34.5 deg



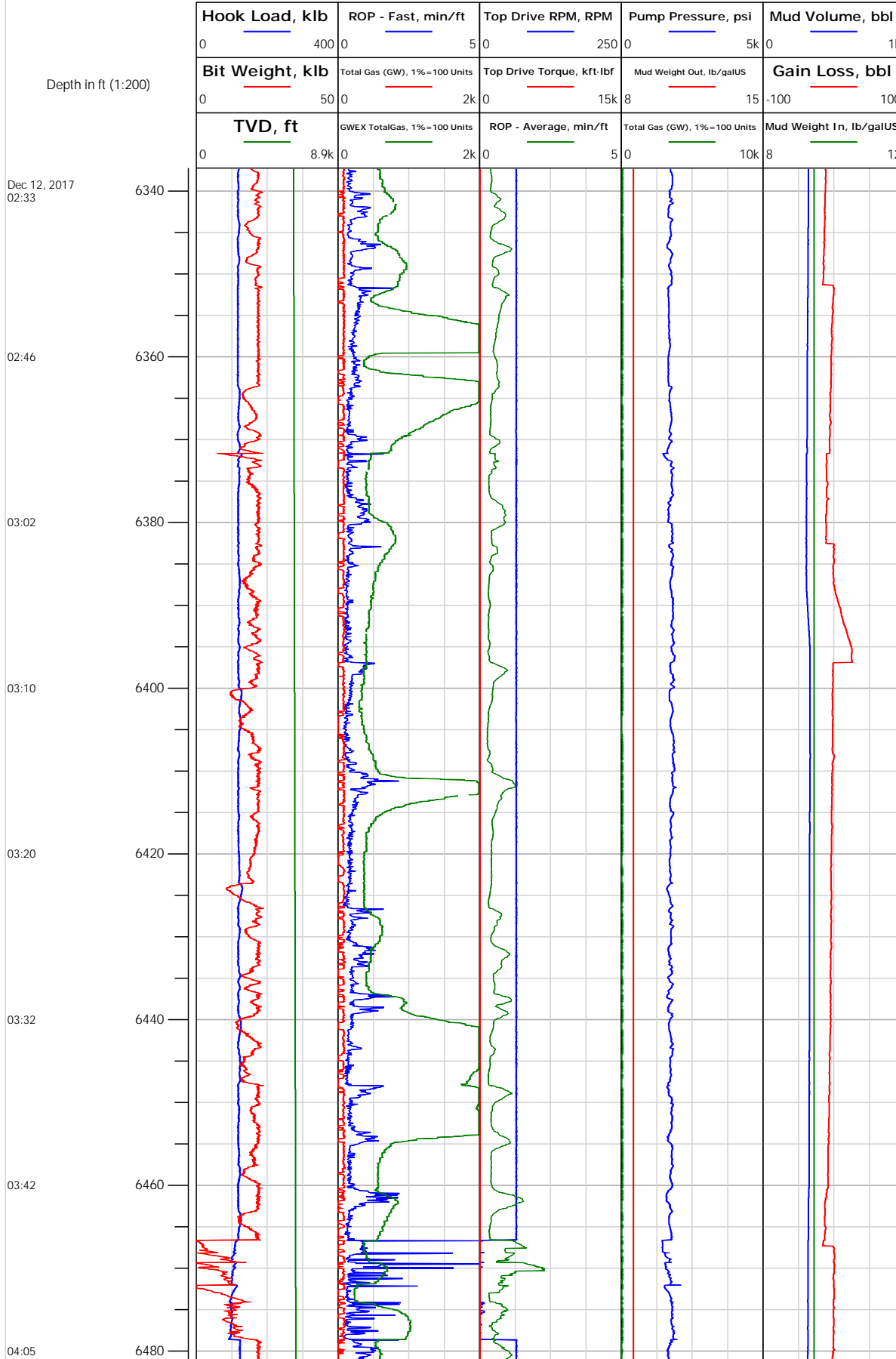
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**Rig:** 290

**Location:** SW/4 of NE/4

## Notes



6371.63: Connection @  
6371.63 ft

6393.76: MD IN WT 9.5/36  
VIS OUT WT 9.45/36 VIS  
PH 8.3

6409.00: Deviation Survey  
6409.00 ft, Deviation 0.6  
deg, Direction 264.1 deg



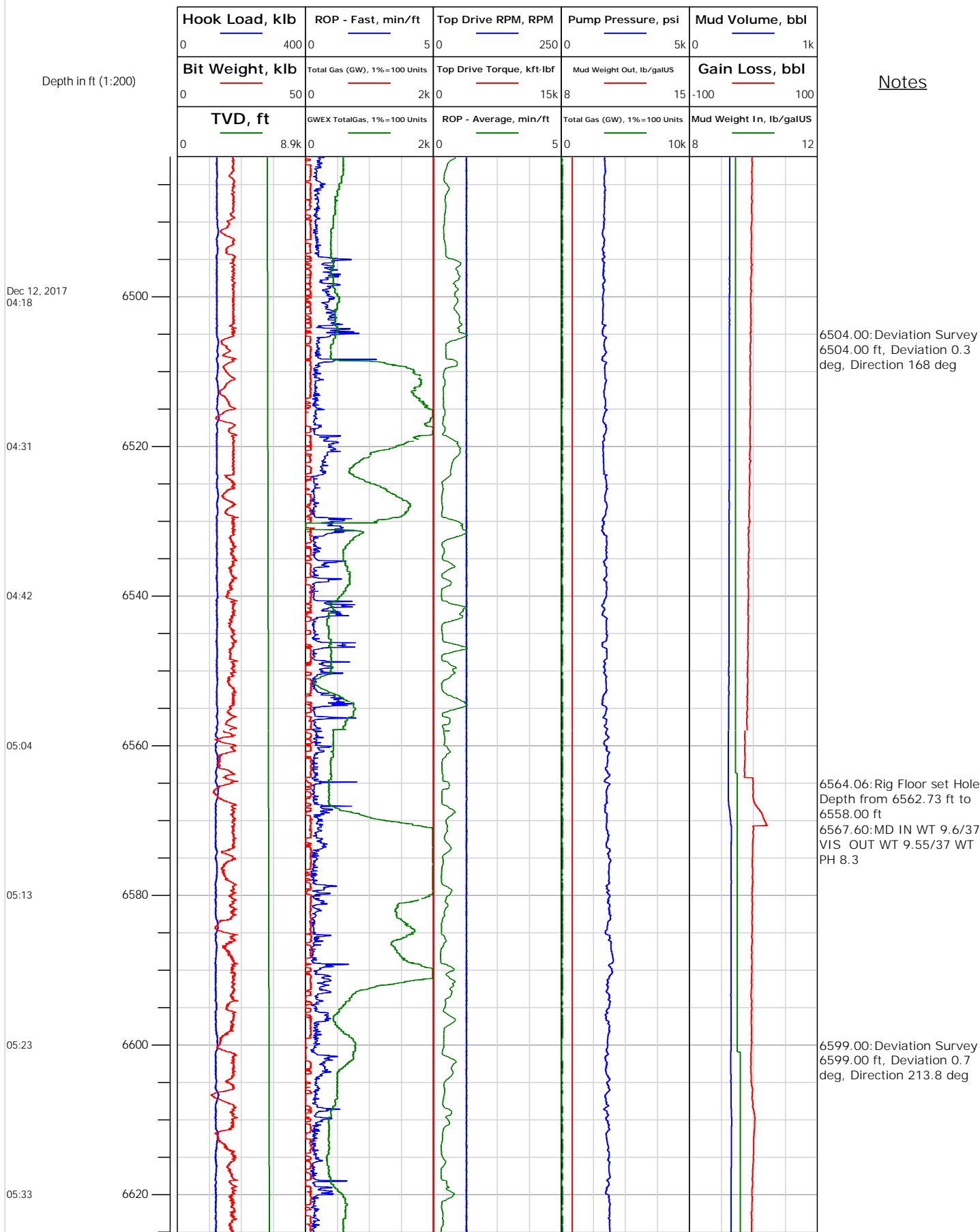
# Electronic Drilling Recorder

**Operator:** Laramie Energy  
**Contractor:** Helmerich & Payne Drlg Co

**Well Name:** Nichols 24-06W  
**Rig:** 290

**Location:** SW/4 of NE/4

## Notes





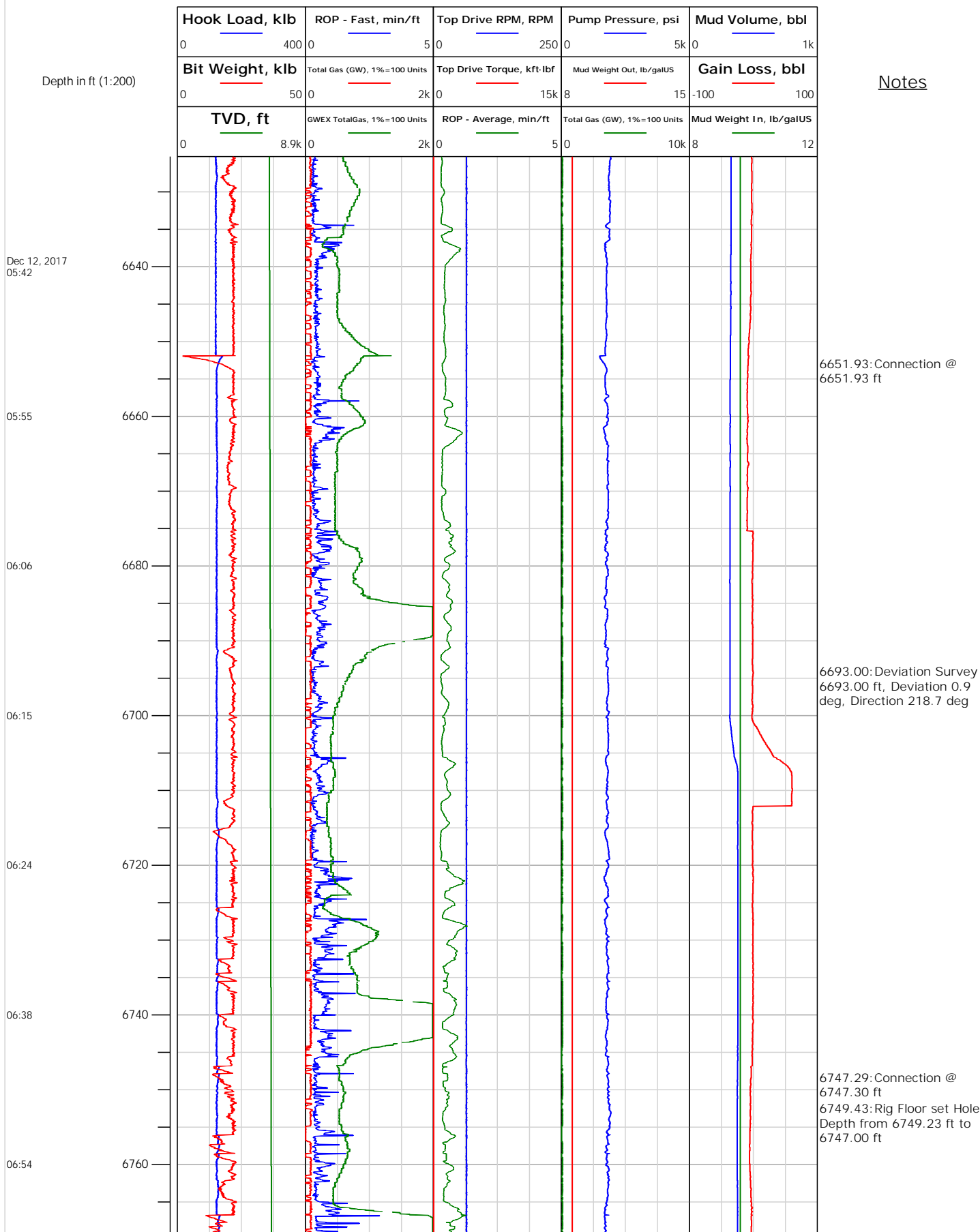
# Electronic Drilling Recorder

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**Contractor:** Helmerich & Payne Drlg Co

**Well Name:** Nichols 24-06W  
**Rig:** 290

**Location:** SW/4 of NE/4

## Notes





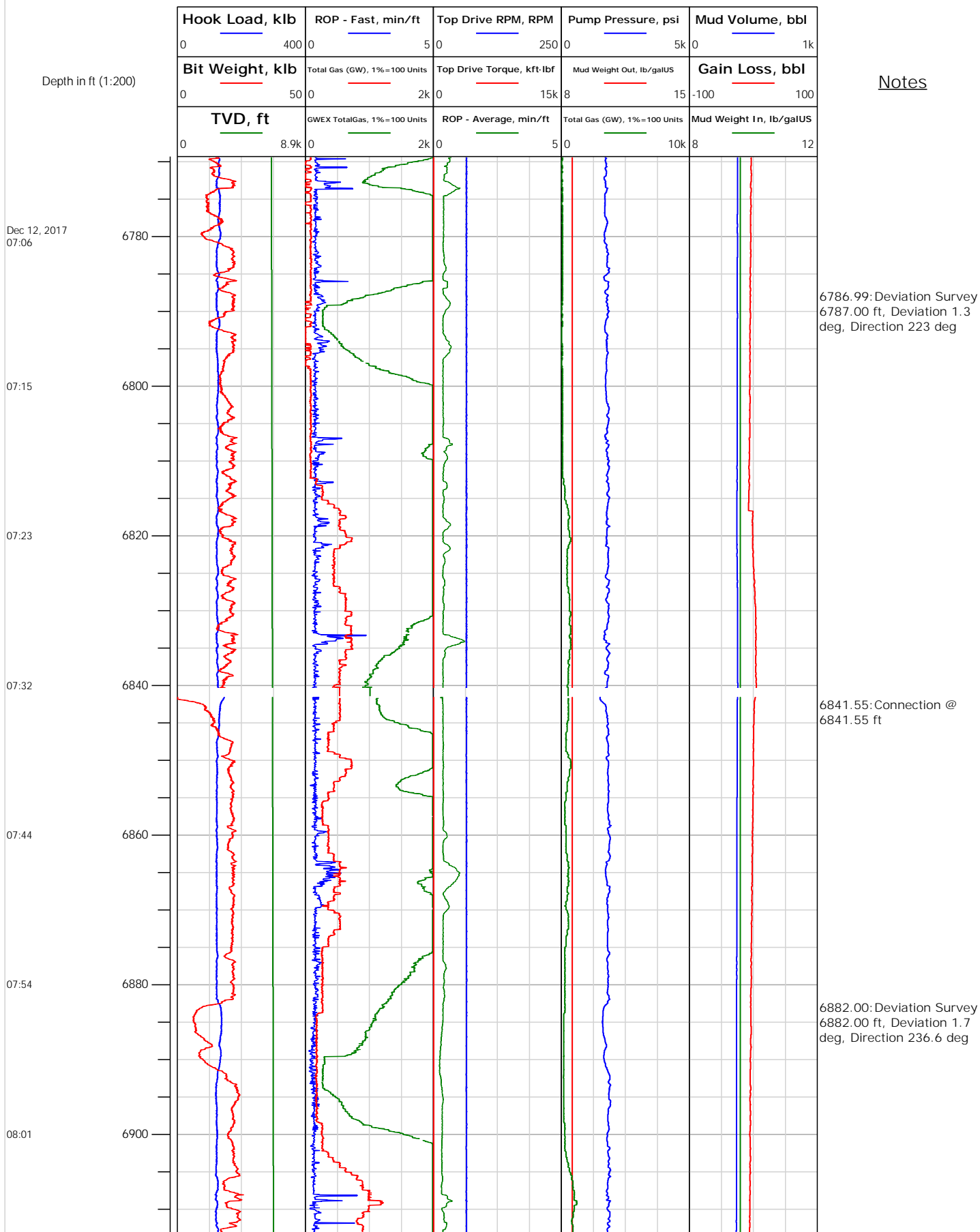
# Electronic Drilling Recorder

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**Well Name:** Nichols 24-06W  
**Rig:** 290

**Location:** SW/4 of NE/4

## Notes





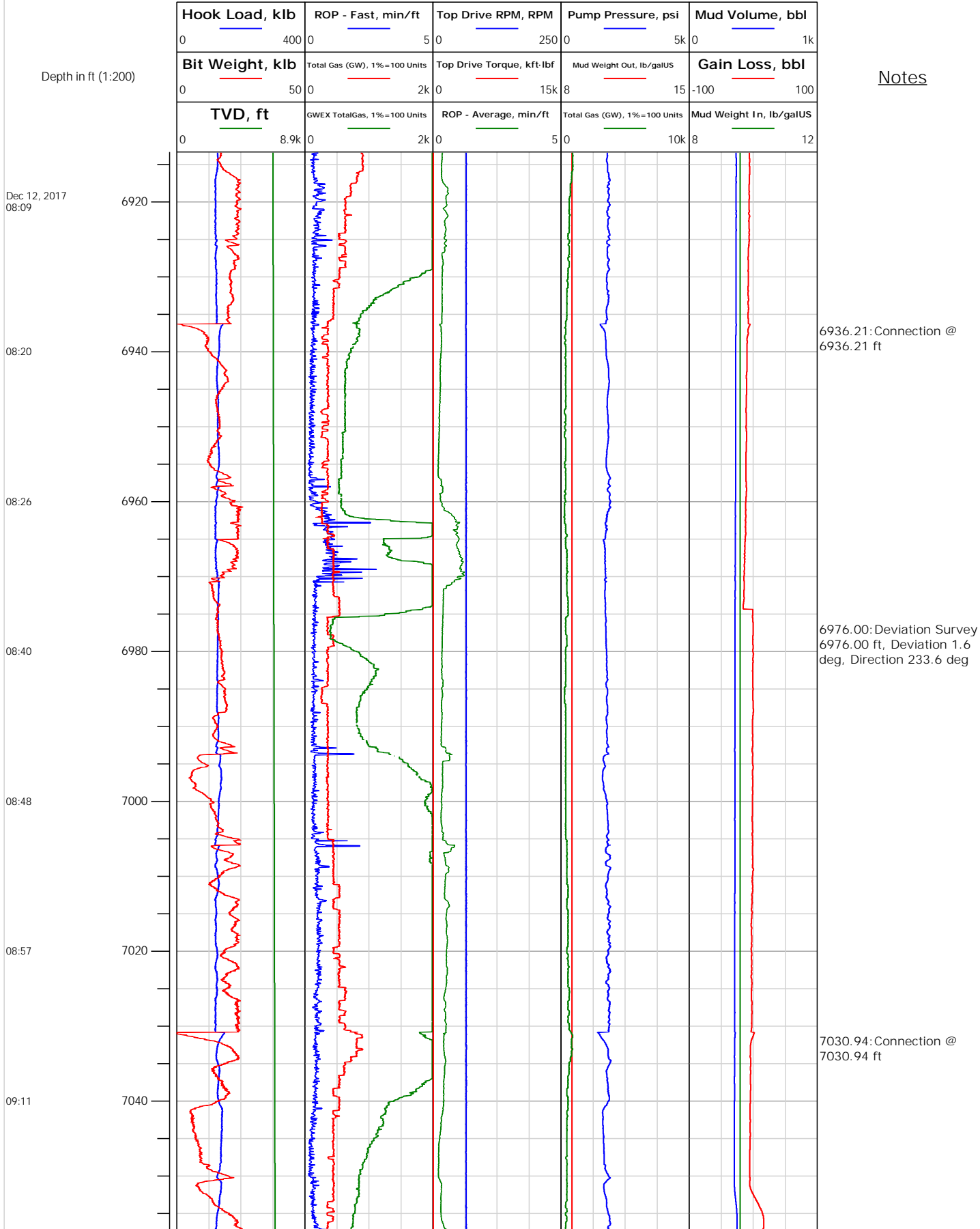
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**Well Name:** Nichols 24-06W  
**Rig:** 290

**Location:** SW/4 of NE/4

## Notes





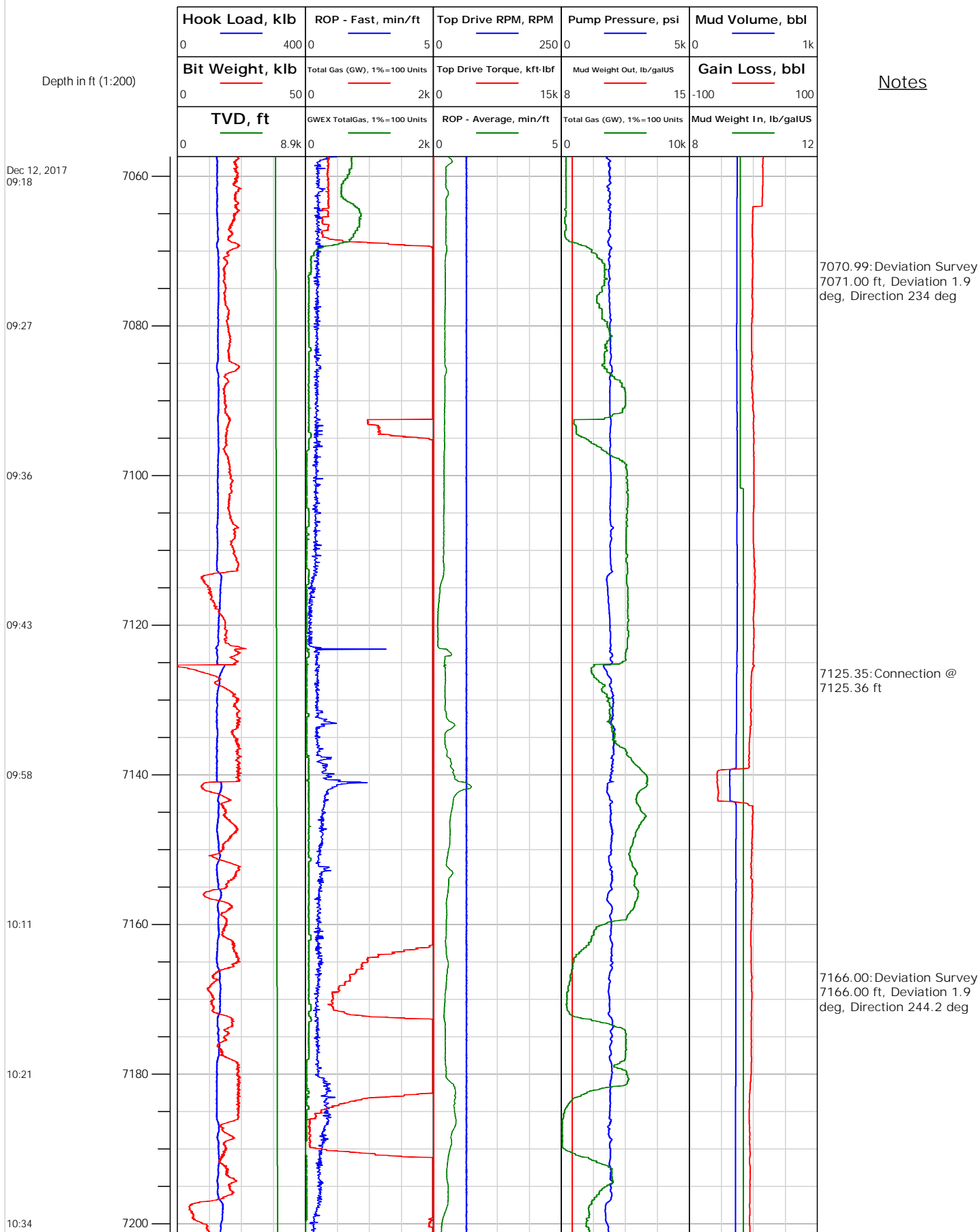
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**Well Name:** Nichols 24-06W  
**Rig:** 290

**Location:** SW/4 of NE/4

## Notes







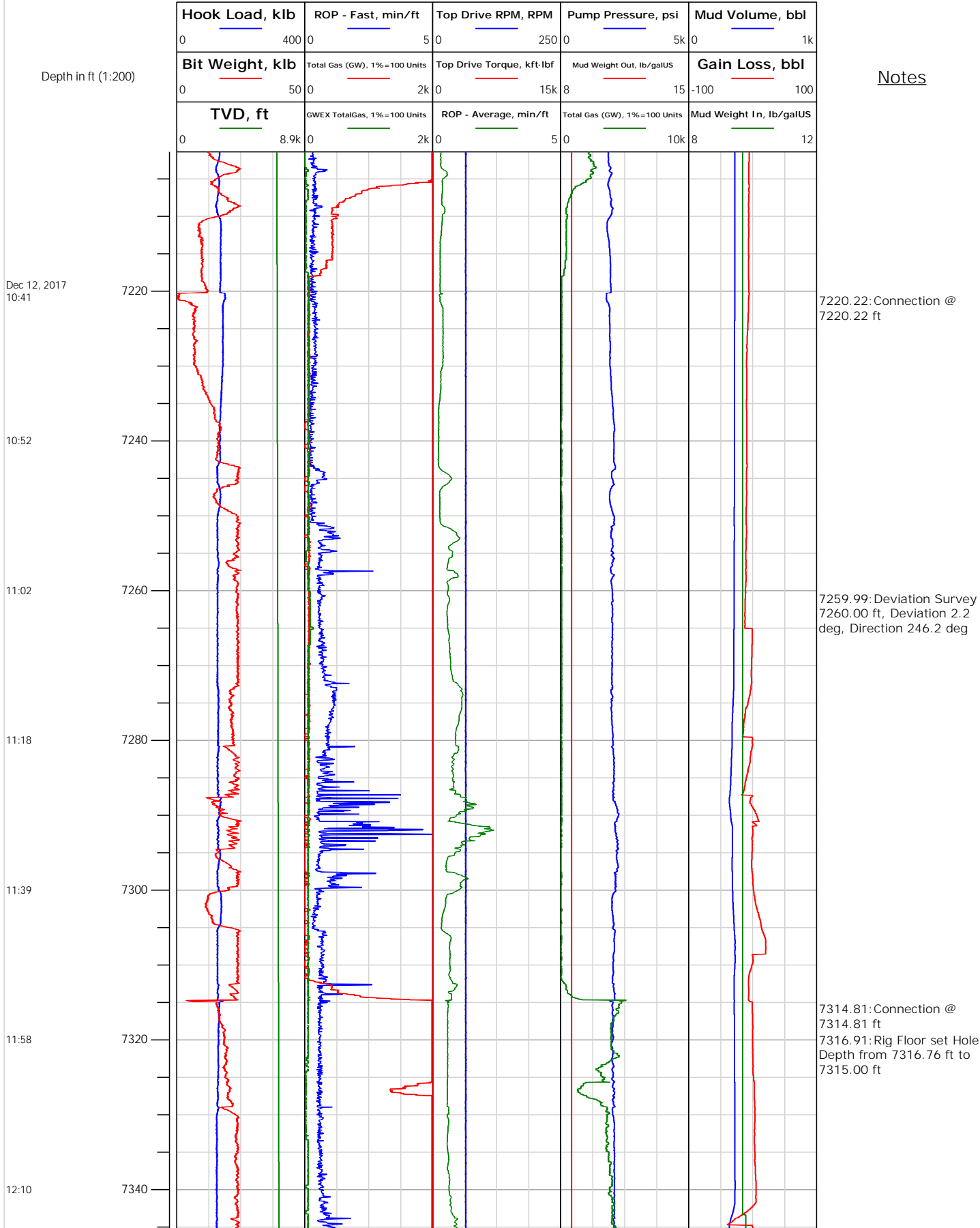
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**Rig:** 290

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## Notes





# Electronic Drilling Recorder

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**Rig:** 290

**Location:** SW/4 of NE/4

## Notes

Depth in ft (1:200)

Dec 12, 2017  
12:26

12:44

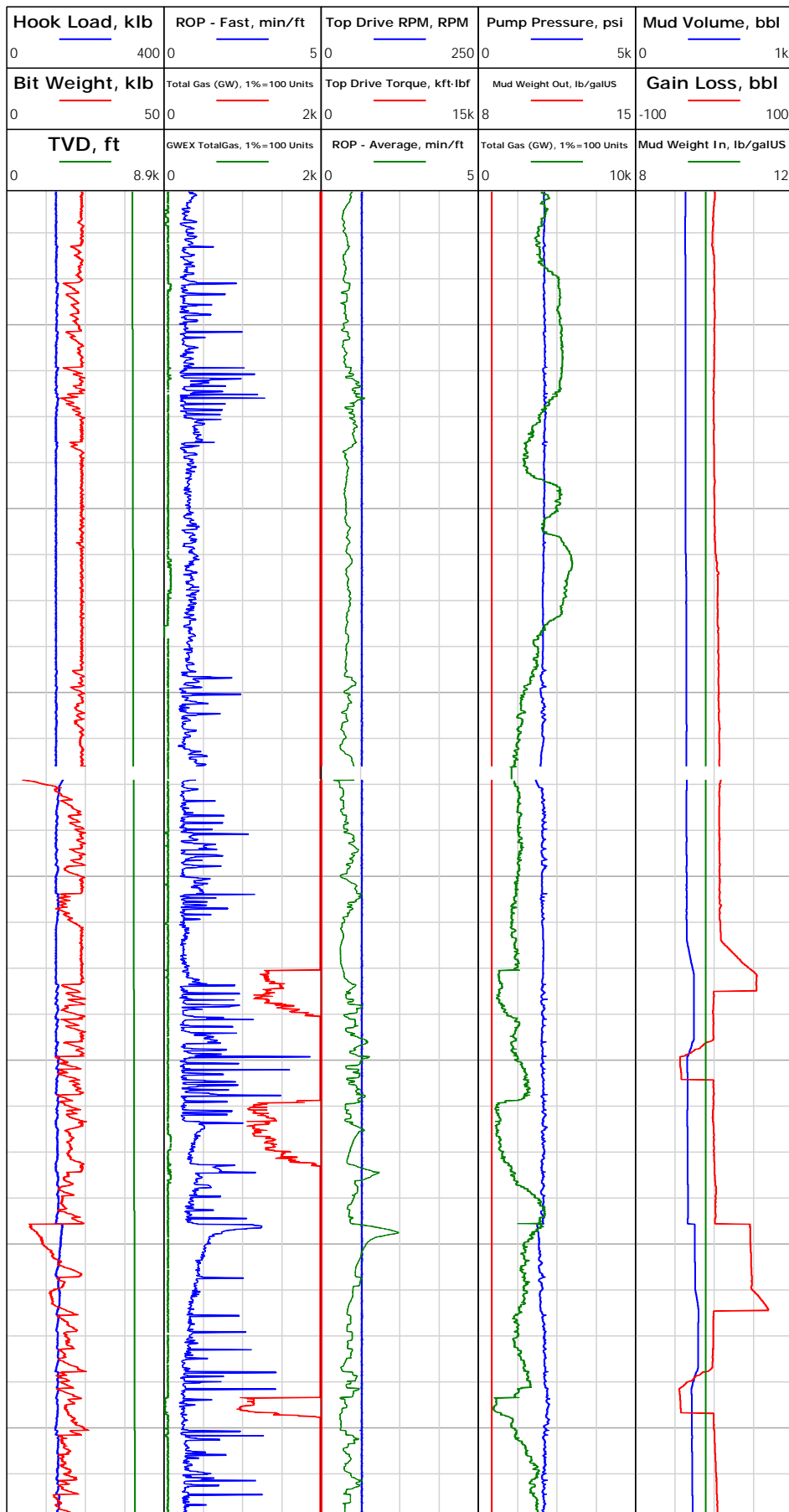
13:01

13:24

13:42

14:11

14:29



7355.00: Deviation Survey  
7355.00 ft, Deviation 2.4  
deg, Direction 245.4 deg

7409.50: Connection @  
7409.51 ft

7454.00: Deviation Survey  
7454.00 ft, Deviation 2.5  
deg, Direction 242.7 deg



# Electronic Drilling Recorder

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**Contractor:** Helmerich & Payne Drlg Co

**Well Name:** Nichols 24-06W  
**Rig:** 290

**Location:** SW/4 of NE/4

