



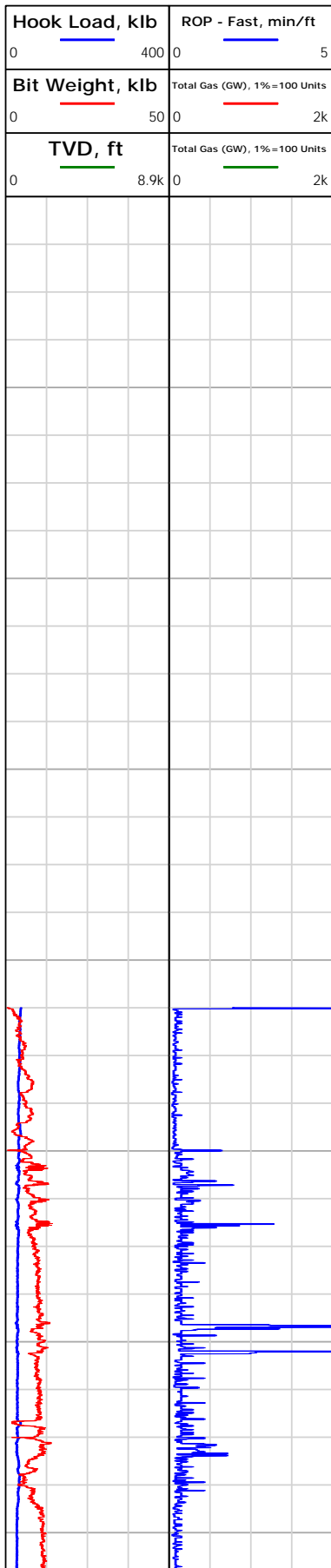
# Electronic Drilling Recorder

Operator: Laramie Energy  
Contractor: Helmerich & Payne Drlg Co

Well Name: Bruton 19-04E  
Rig: 290

Location: SE/4 of NW/4

Depth in ft (1:200)



Sep 9, 2017  
07:11

07:26

07:34



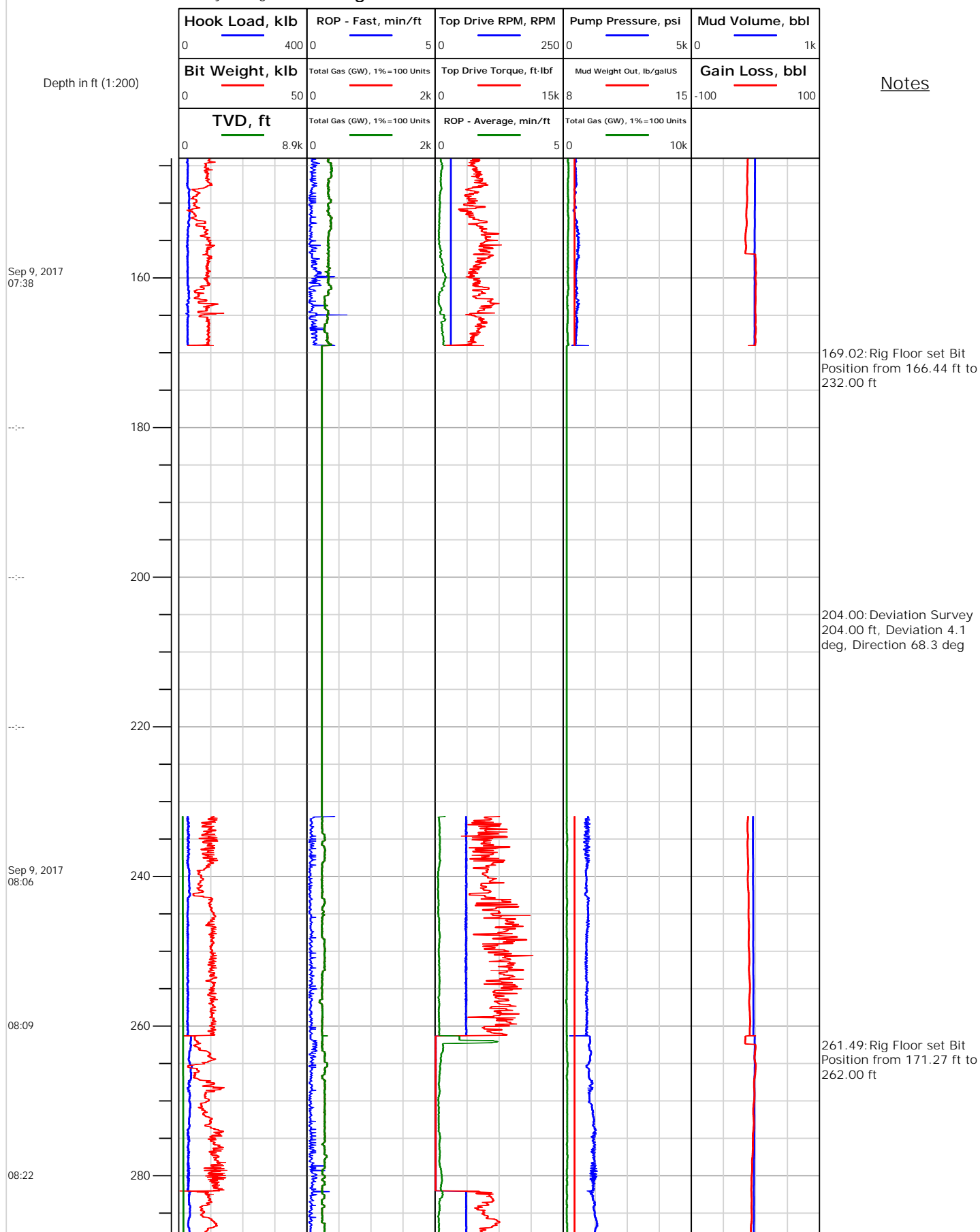
## Electronic Drilling Recorder

Operator: Laramie Energy  
Contractor: Helmerich & Payne Drlg Co

Well Name: Bruton 19-04E  
Rig: 290

Location: SE/4 of NW/4

## Notes





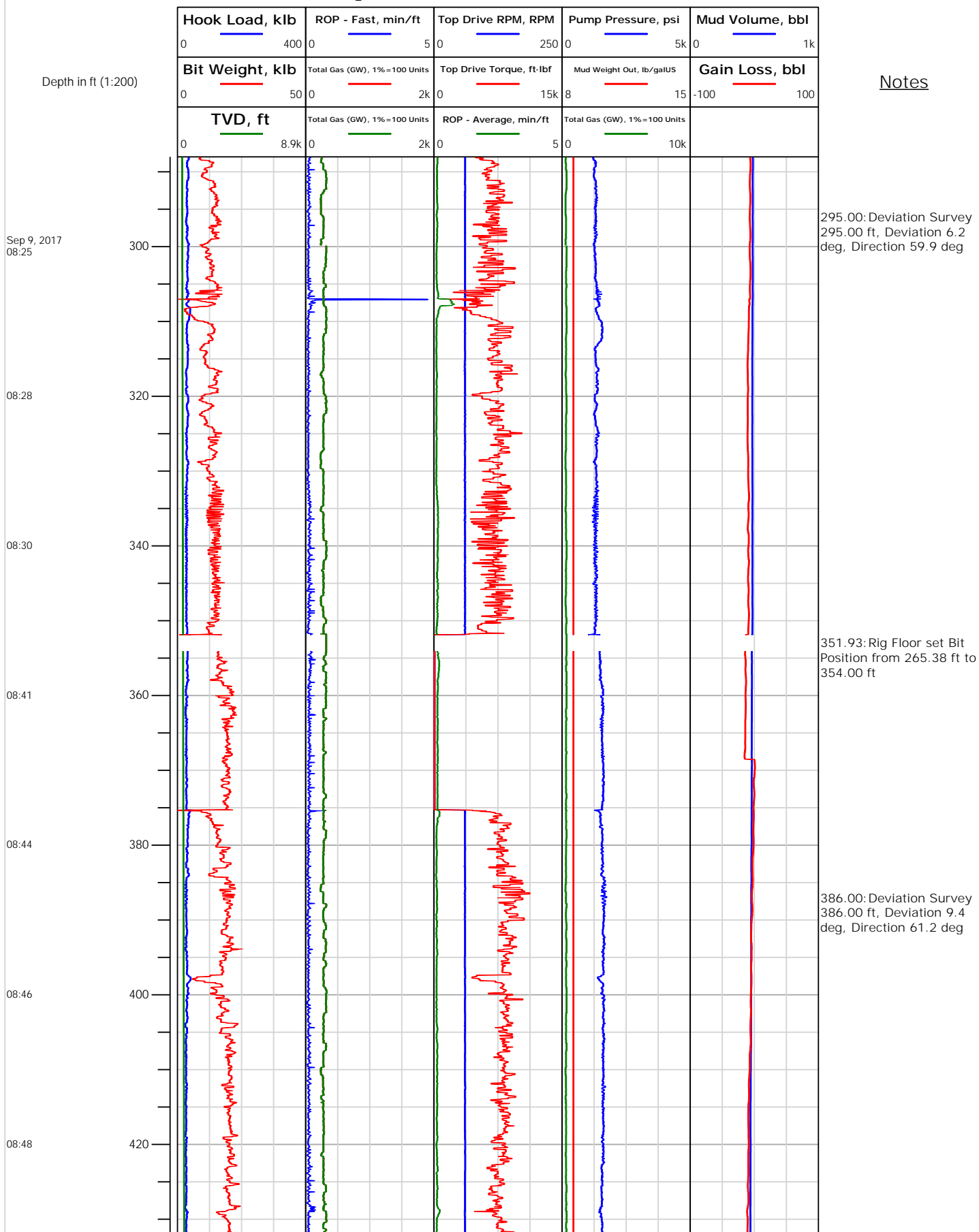


# Electronic Drilling Recorder

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

**Well Name:** Bruton 19-04E  
**Rig:** 290

**Location:** SE/4 of NW/4





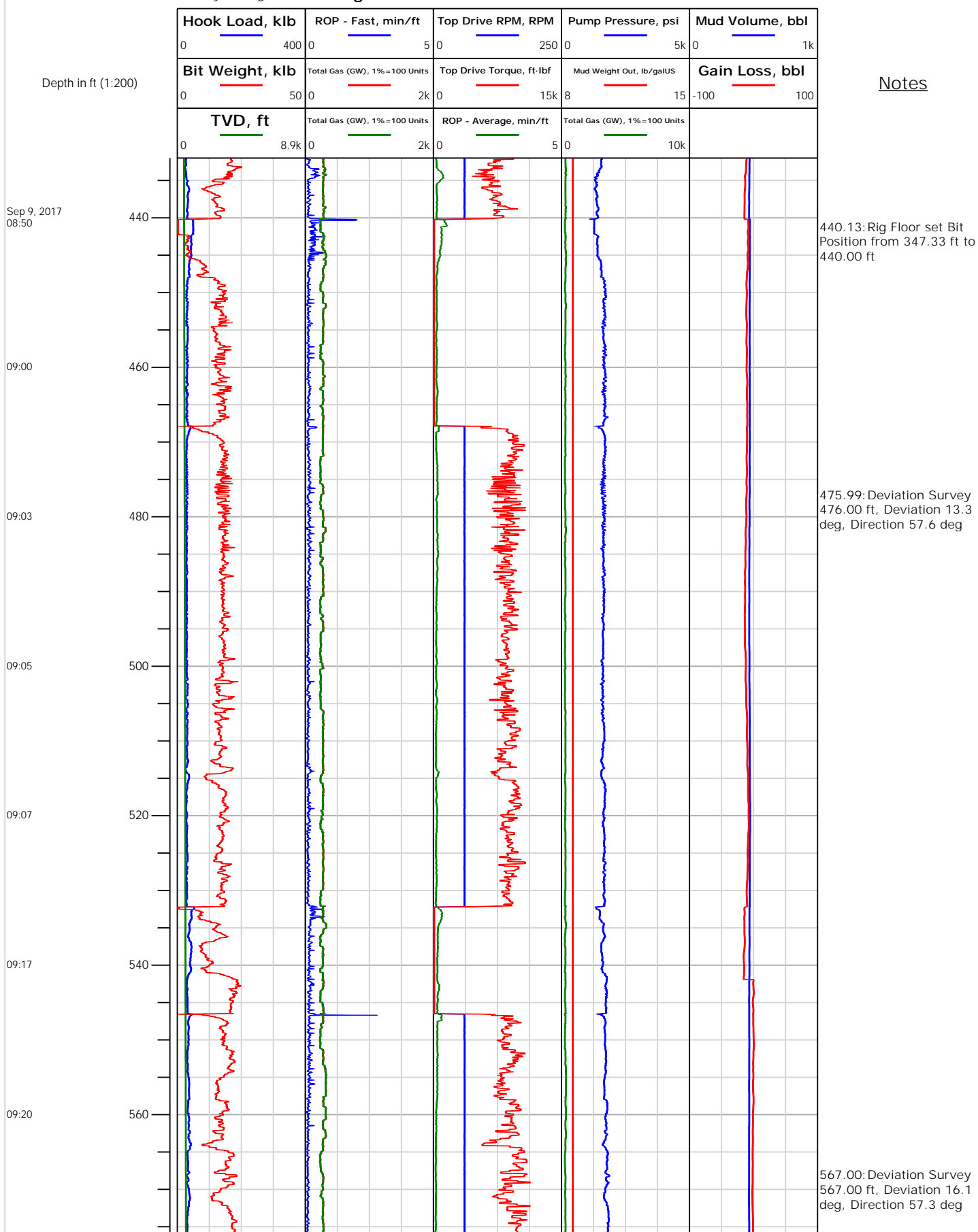
# Electronic Drilling Recorder

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

**Well Name:** Bruton 19-04E  
**Rig:** 290

**Location:** SE/4 of NW/4

## Notes





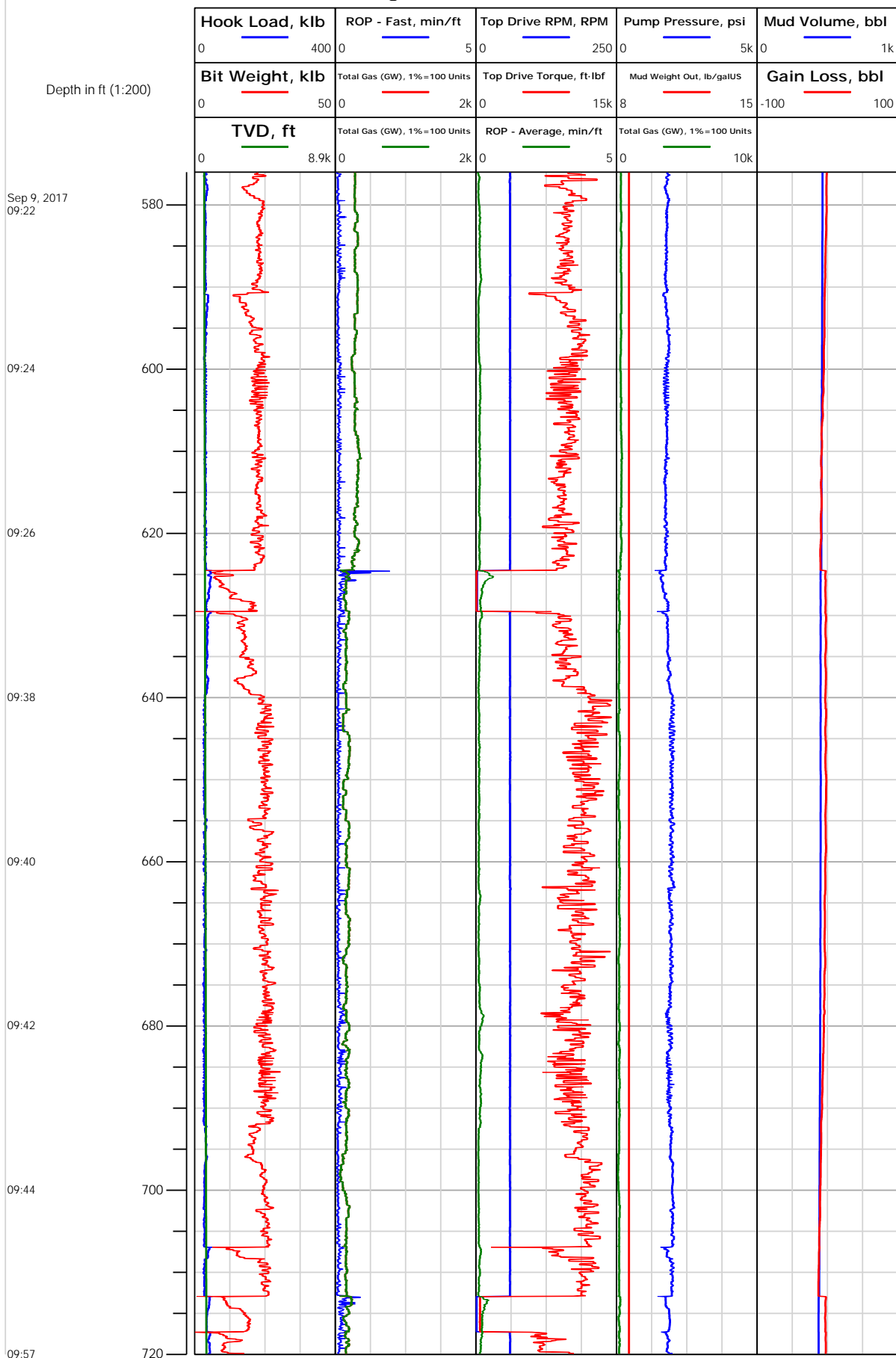
# Electronic Drilling Recorder

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

**Well Name:** Bruton 19-04E  
**Rig:** 290

**Location:** SE/4 of NW/4

Notes





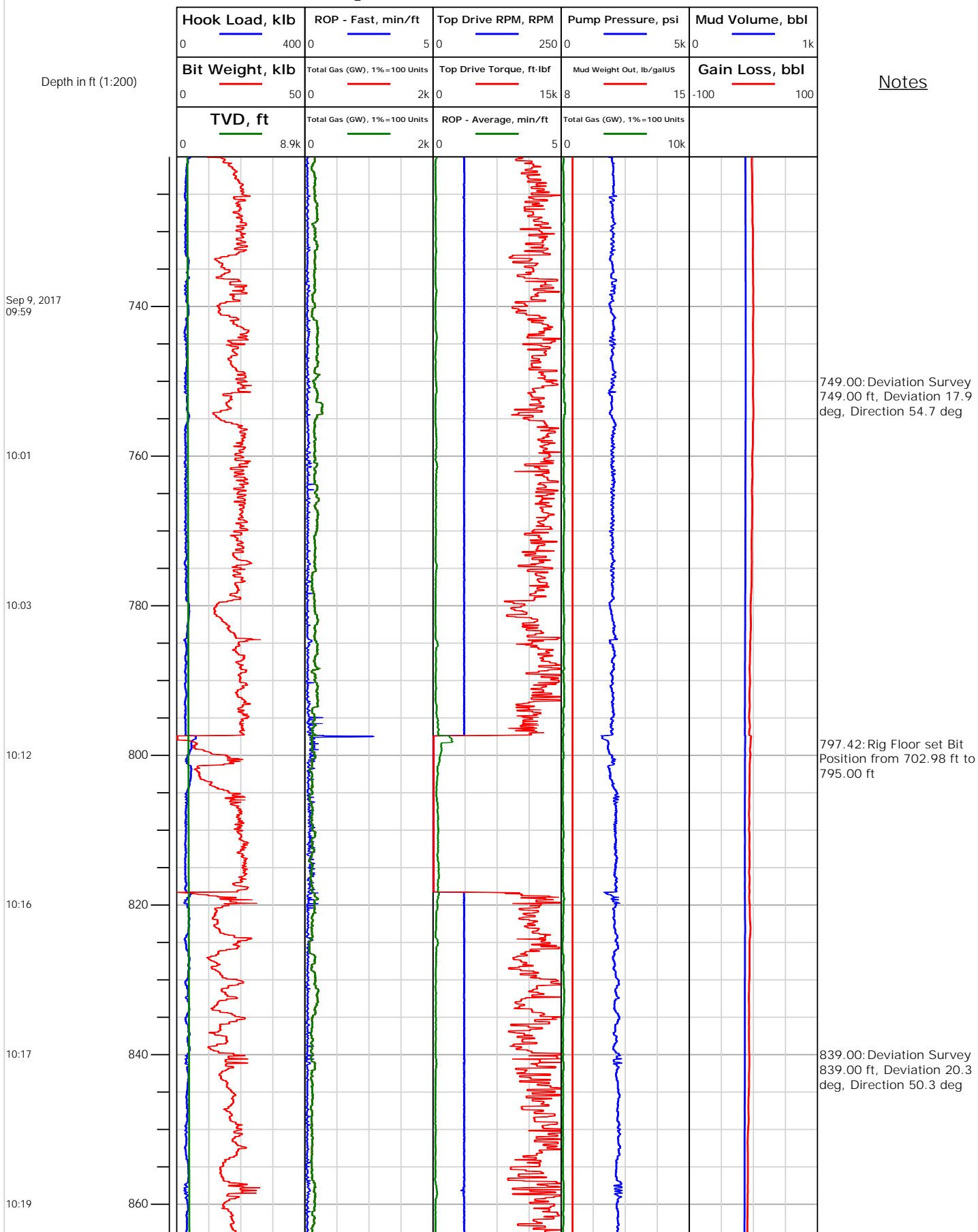
# Electronic Drilling Recorder

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

**Well Name:** Bruton 19-04E  
**Rig:** 290

**Location:** SE/4 of NW/4

## Notes





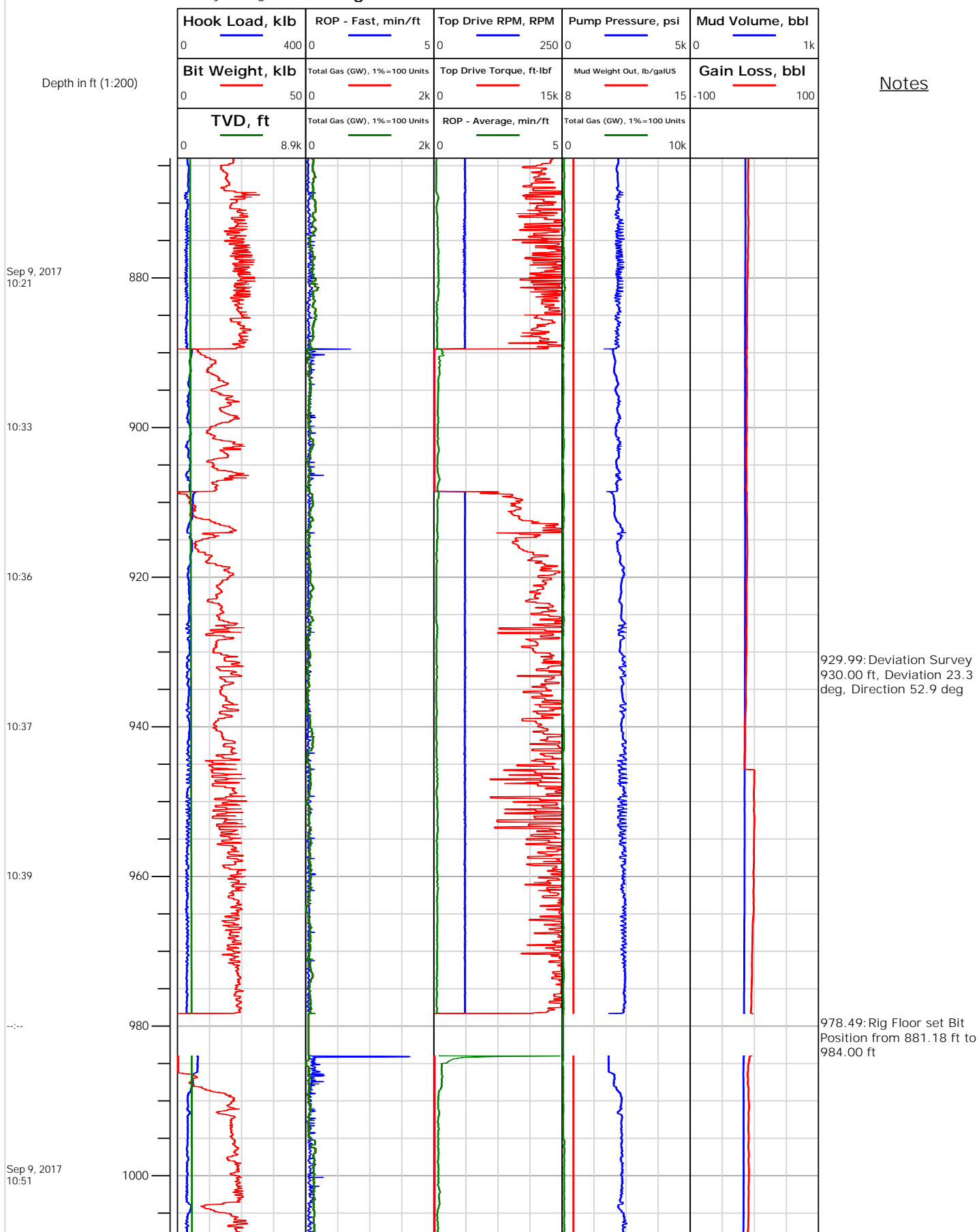
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Operator: Laramie Energy  
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Well Name: Bruton 19-04E  
Rig: 290

Location: SE/4 of NW/4

Notes





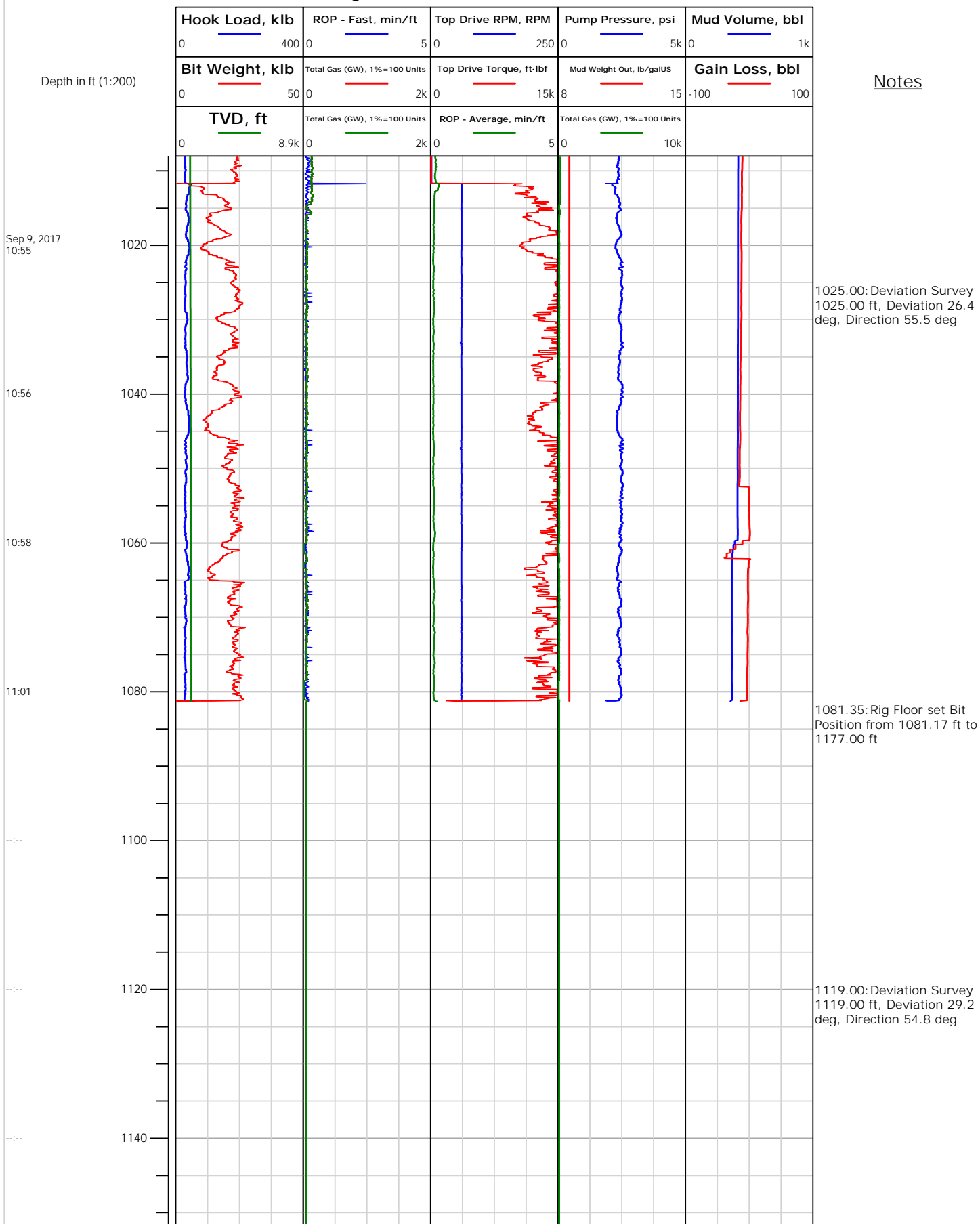
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**Contractor:** Helmerich & Payne Drlg Co

**Well Name:** Bruton 19-04E  
**Rig:** 290

**Location:** SE/4 of NW/4

## Notes





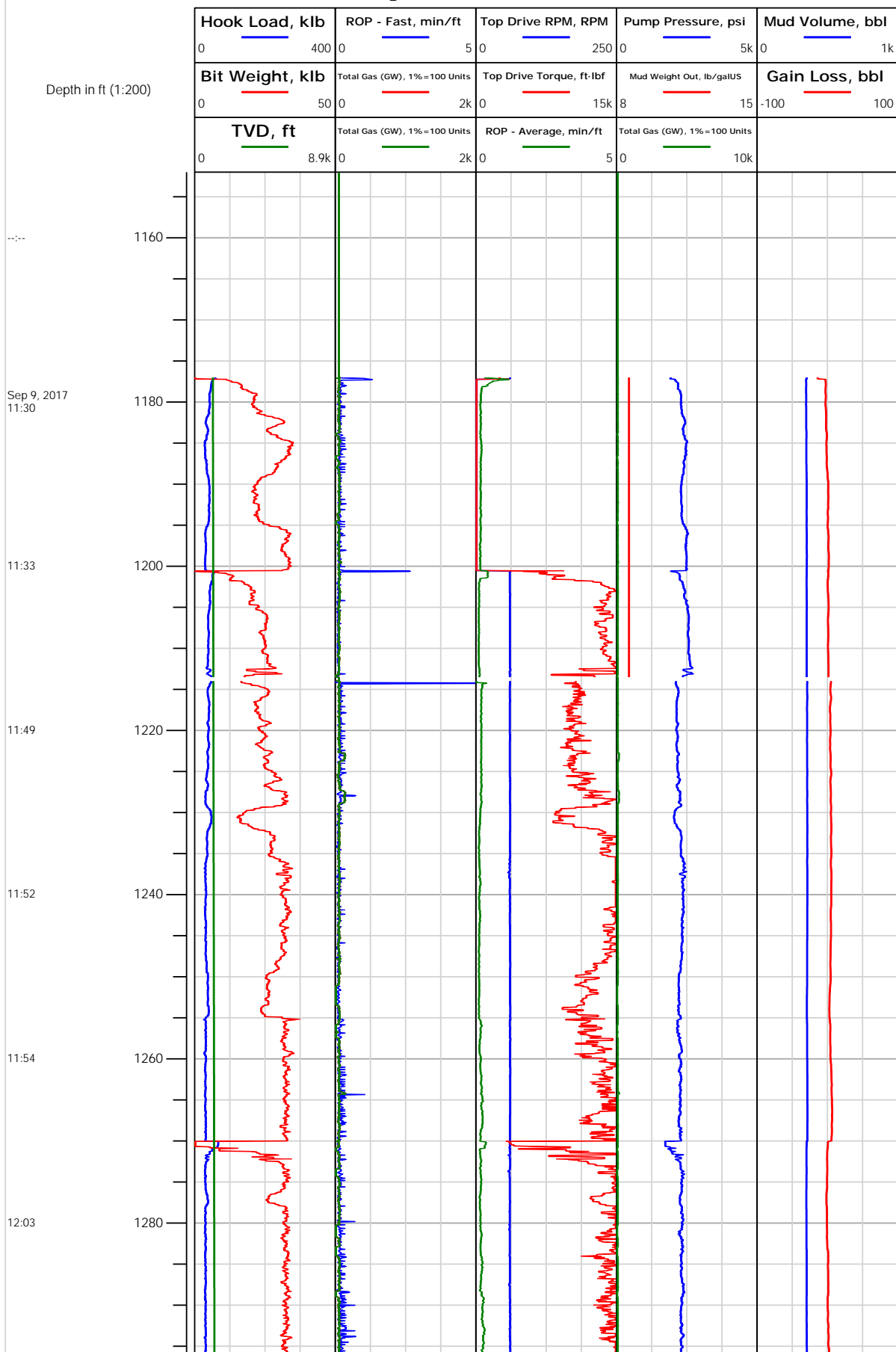
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**Operator:** Laramie Energy  
**Contractor:** Helmerich & Payne Drlg Co

**Well Name:** Bruton 19-04E  
**Rig:** 290

**Location:** SE/4 of NW/4

Notes



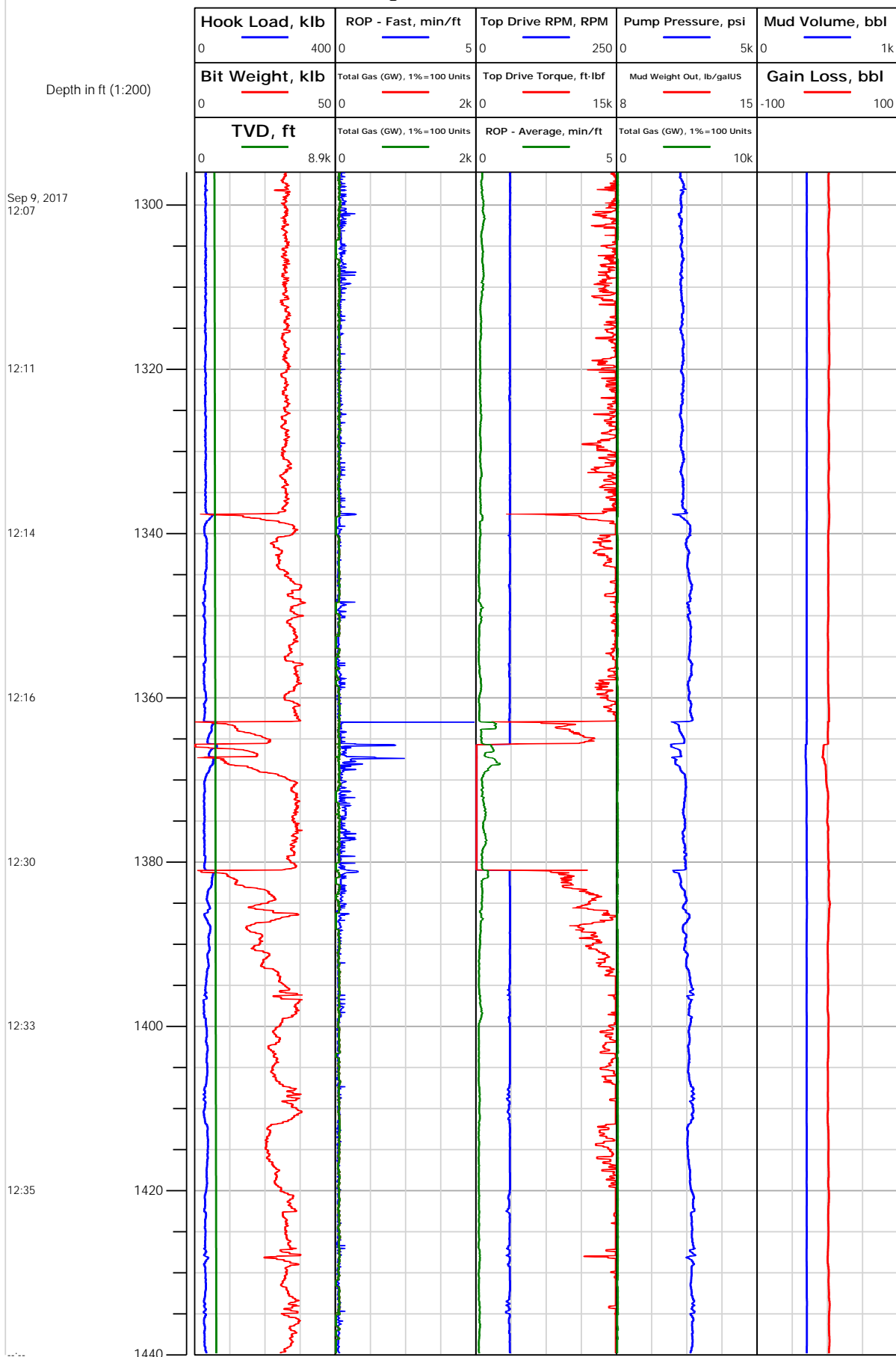


# Electronic Drilling Recorder

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

**Well Name:** Bruton 19-04E  
**Rig:** 290

**Location:** SE/4 of NW/4



Notes

1309.00: Deviation Survey  
 1309.00 ft, Deviation 34.4 deg, Direction 52.5 deg

1404.00: Deviation Survey  
 1404.00 ft, Deviation 33.6 deg, Direction 53.4 deg





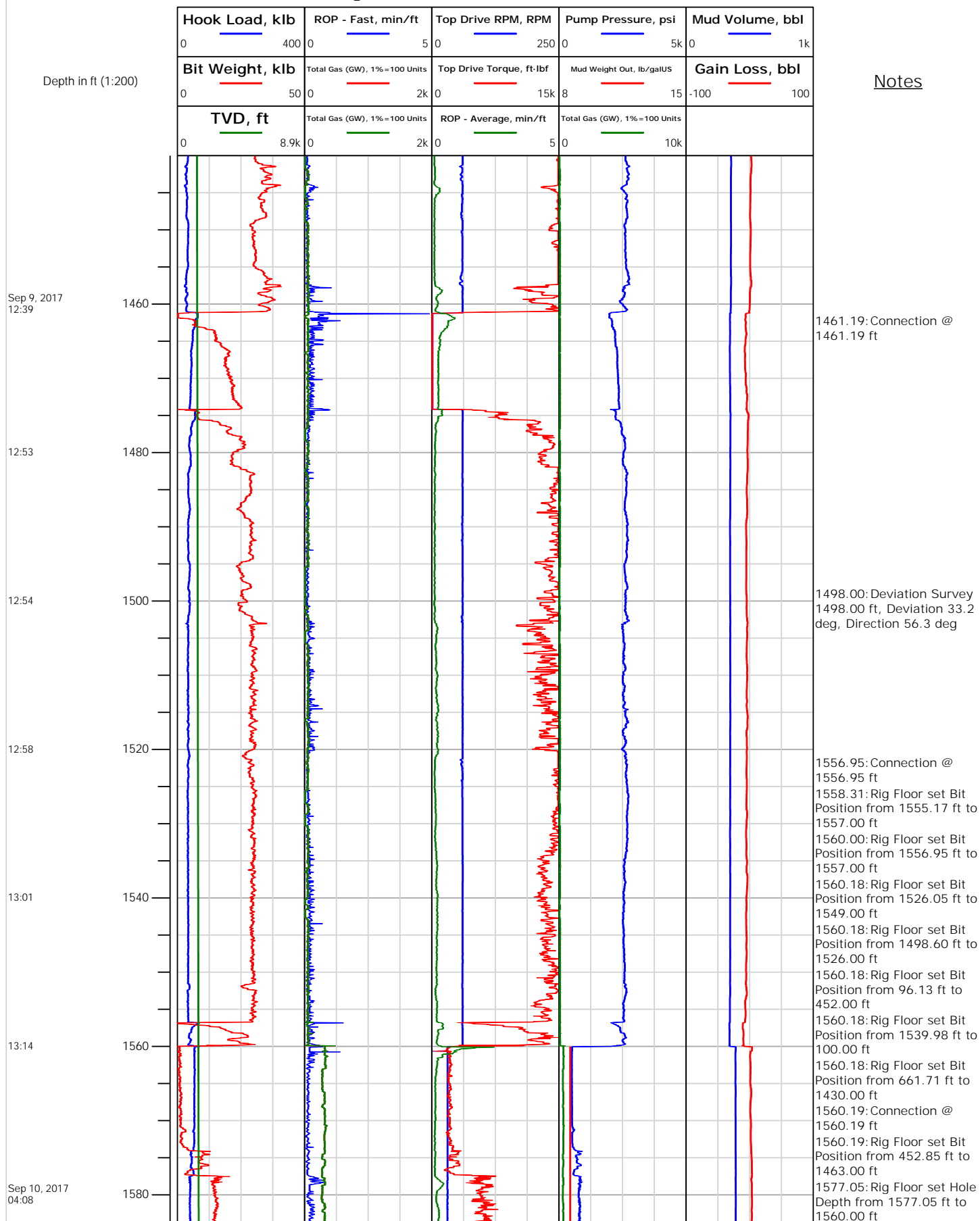
## Electronic Drilling Recorder

Operator: Laramie Energy  
Contractor: Helmerich & Payne Drlg Co

Well Name: Bruton 19-04E  
Rig: 290

Location: SE/4 of NW/4

## Notes





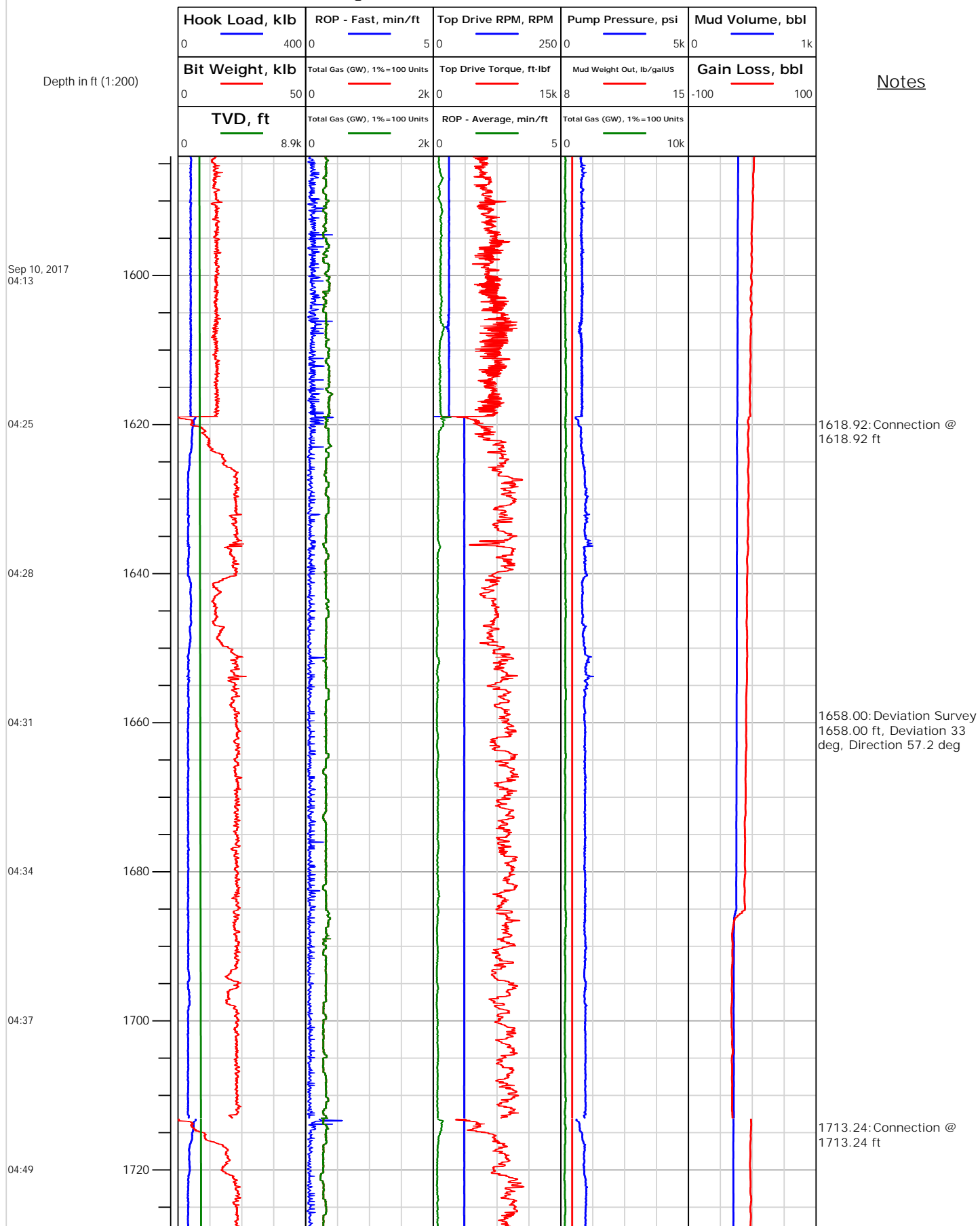
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Operator: Laramie Energy  
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Well Name: Bruton 19-04E  
Rig: 290

Location: SE/4 of NW/4

Notes





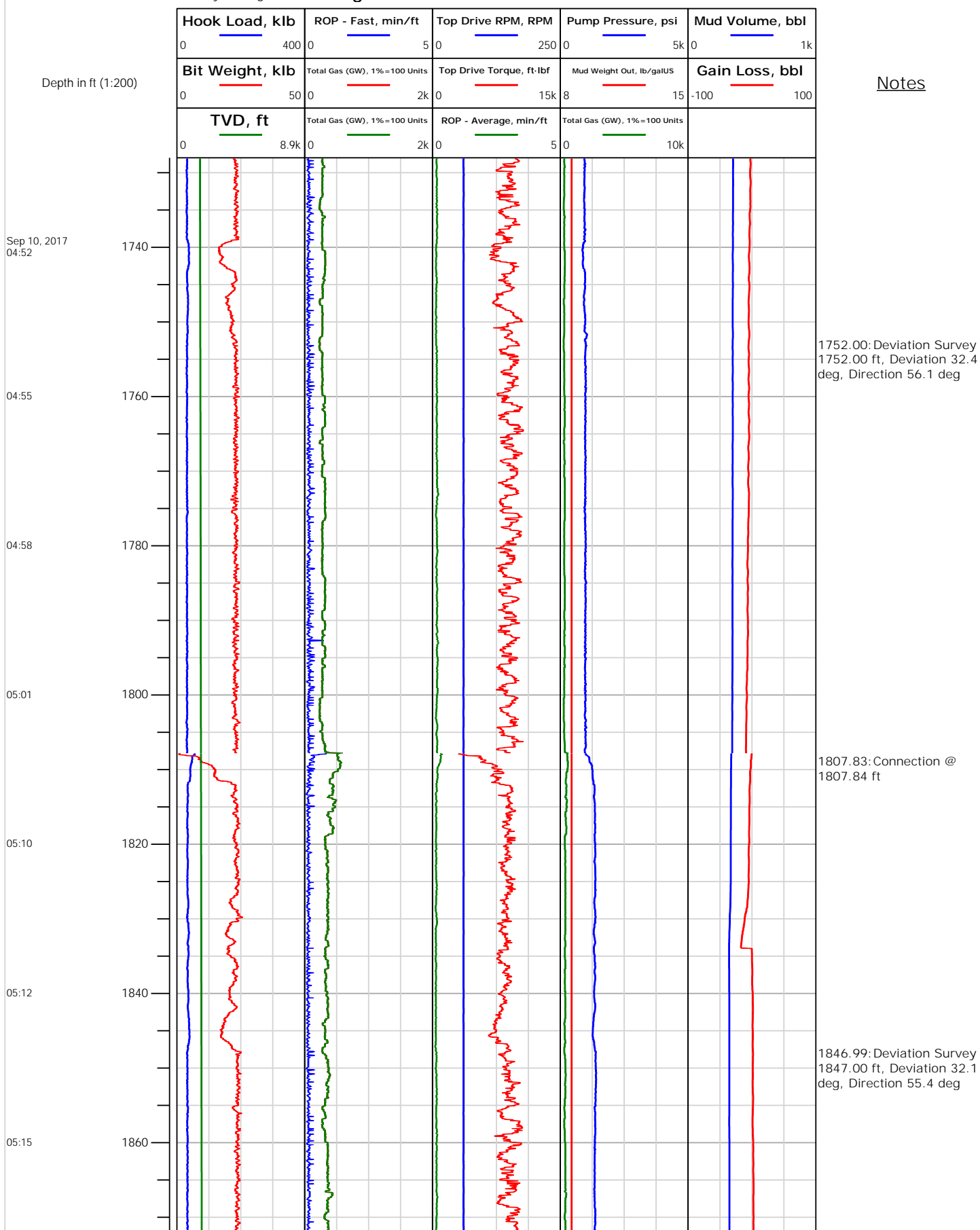
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**Operator:** Laramie Energy  
**Contractor:** Helmerich & Payne Drlg Co

**Well Name:** Bruton 19-04E  
**Rig:** 290

**Location:** SE/4 of NW/4

Notes





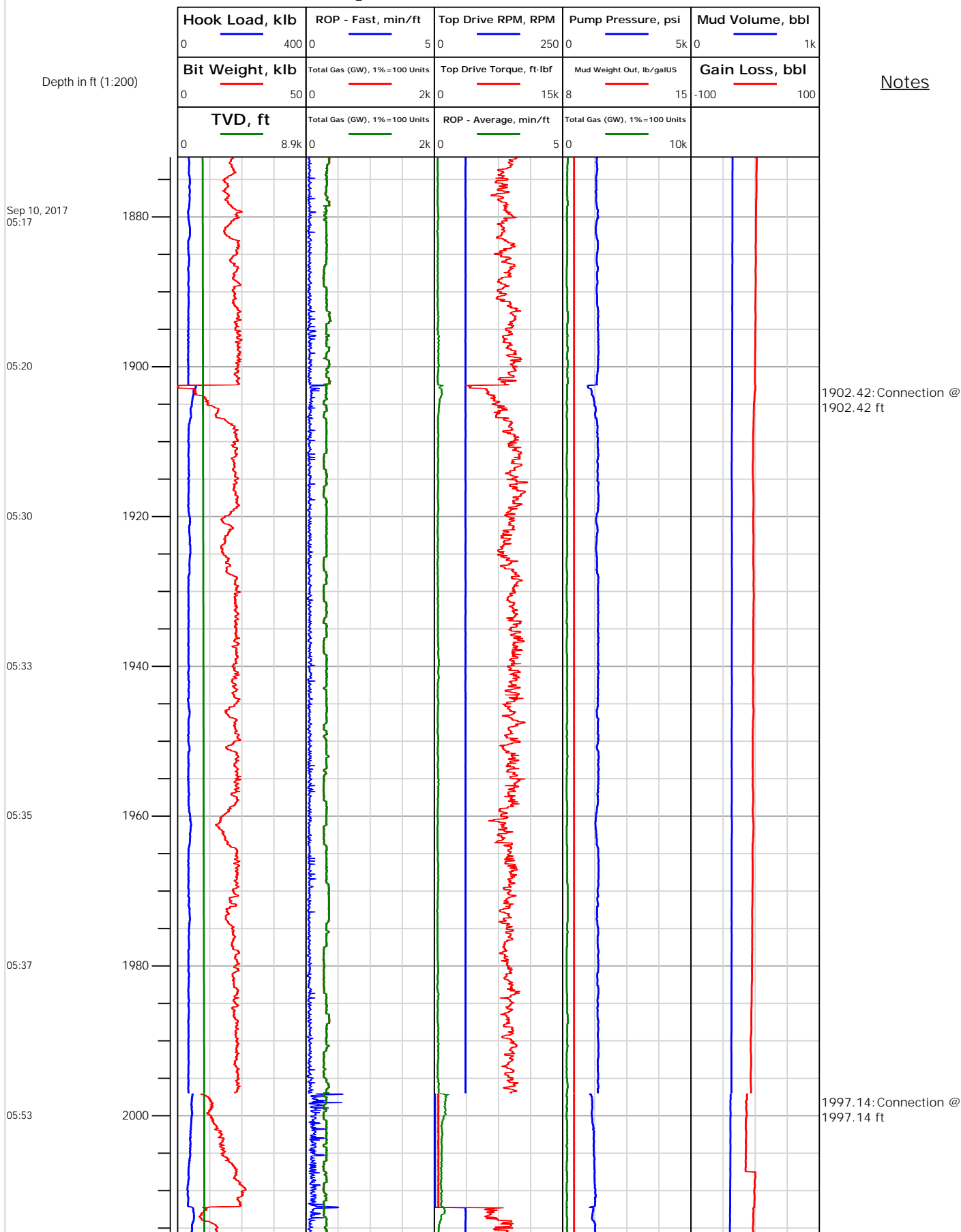
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**Well Name:** Bruton 19-04E  
**Rig:** 290

**Location:** SE/4 of NW/4

Notes





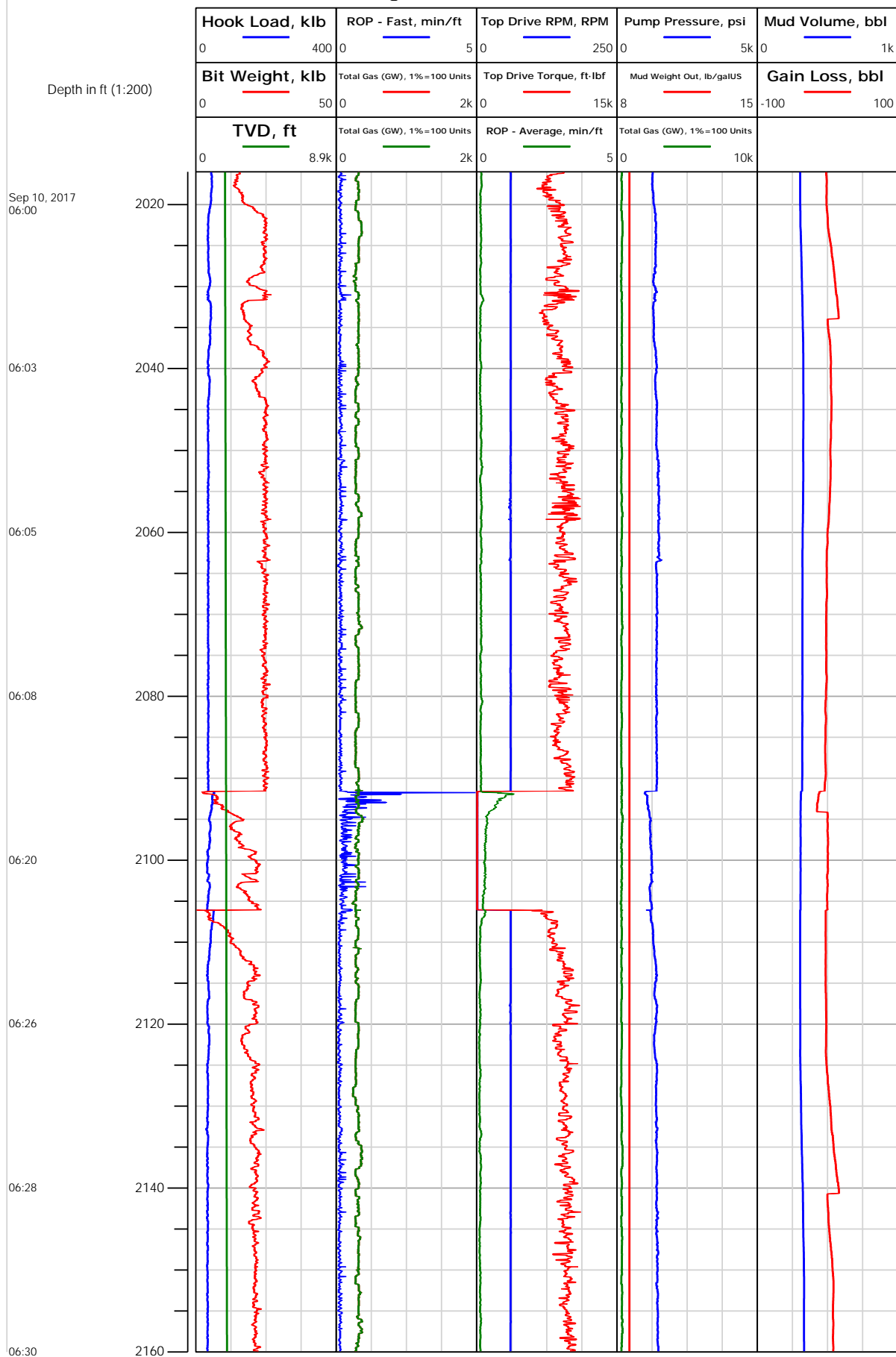
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Well Name: Bruton 19-04E  
Rig: 290

Location: SE/4 of NW/4

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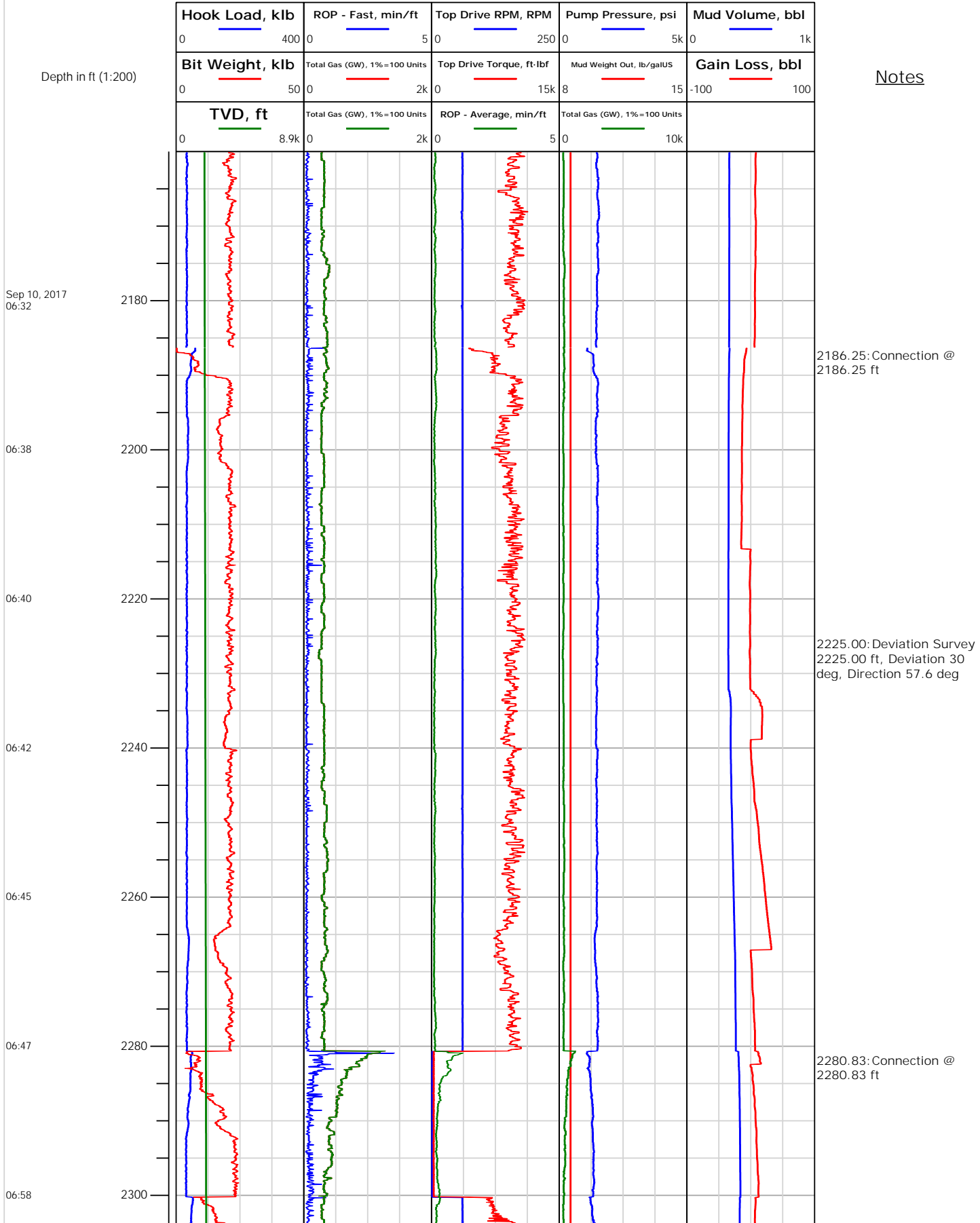
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**Well Name:** Bruton 19-04E  
**Rig:** 290

**Location:** SE/4 of NW/4

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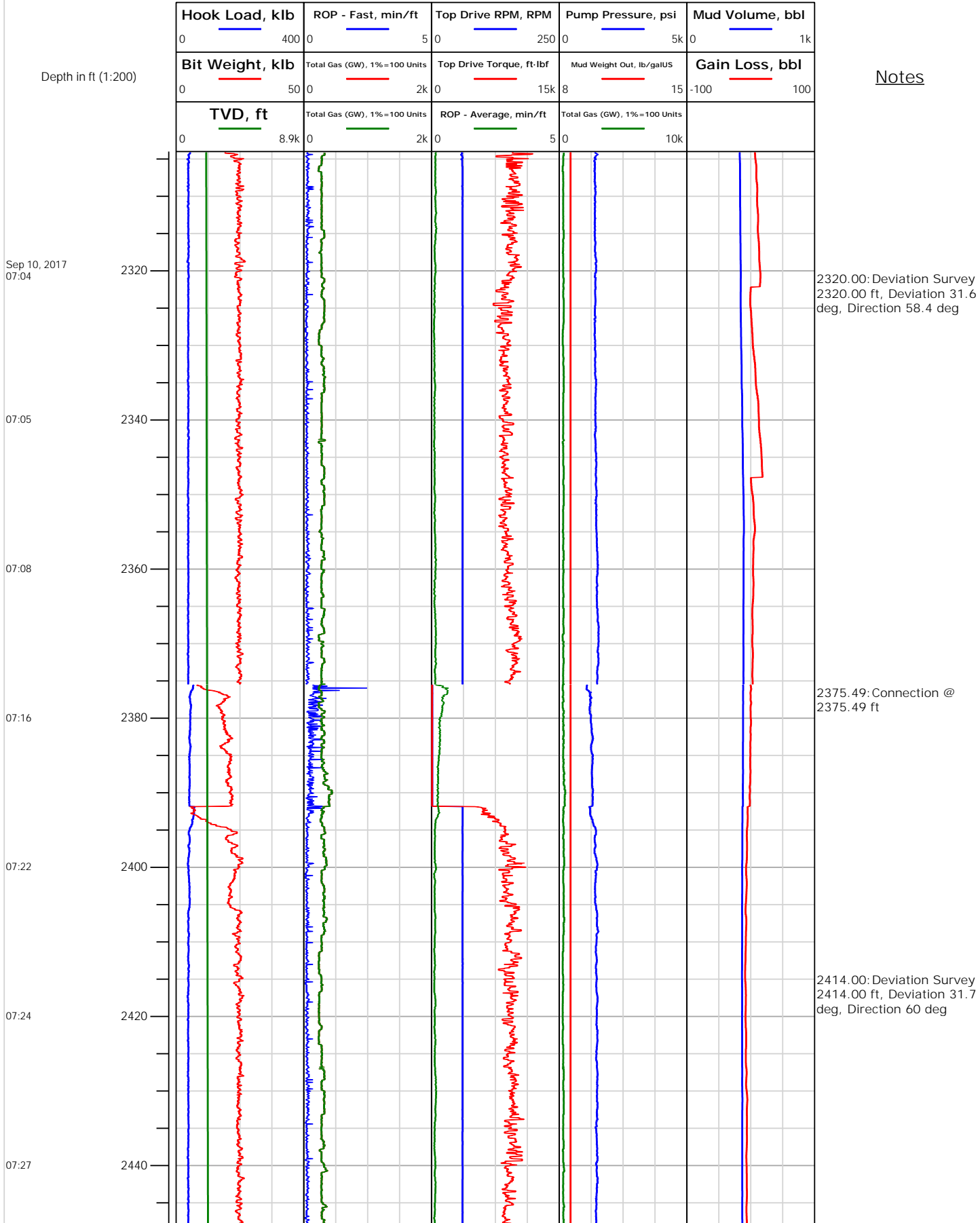
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**Contractor:** Helmerich & Payne Drlg Co

**Well Name:** Bruton 19-04E  
**Rig:** 290

**Location:** SE/4 of NW/4

## Notes





# Electronic Drilling Recorder

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

**Well Name:** Bruton 19-04E  
**Rig:** 290

**Location:** SE/4 of NW/4

Notes

Depth in ft (1:200)

Sep 10, 2017  
07:29

07:38

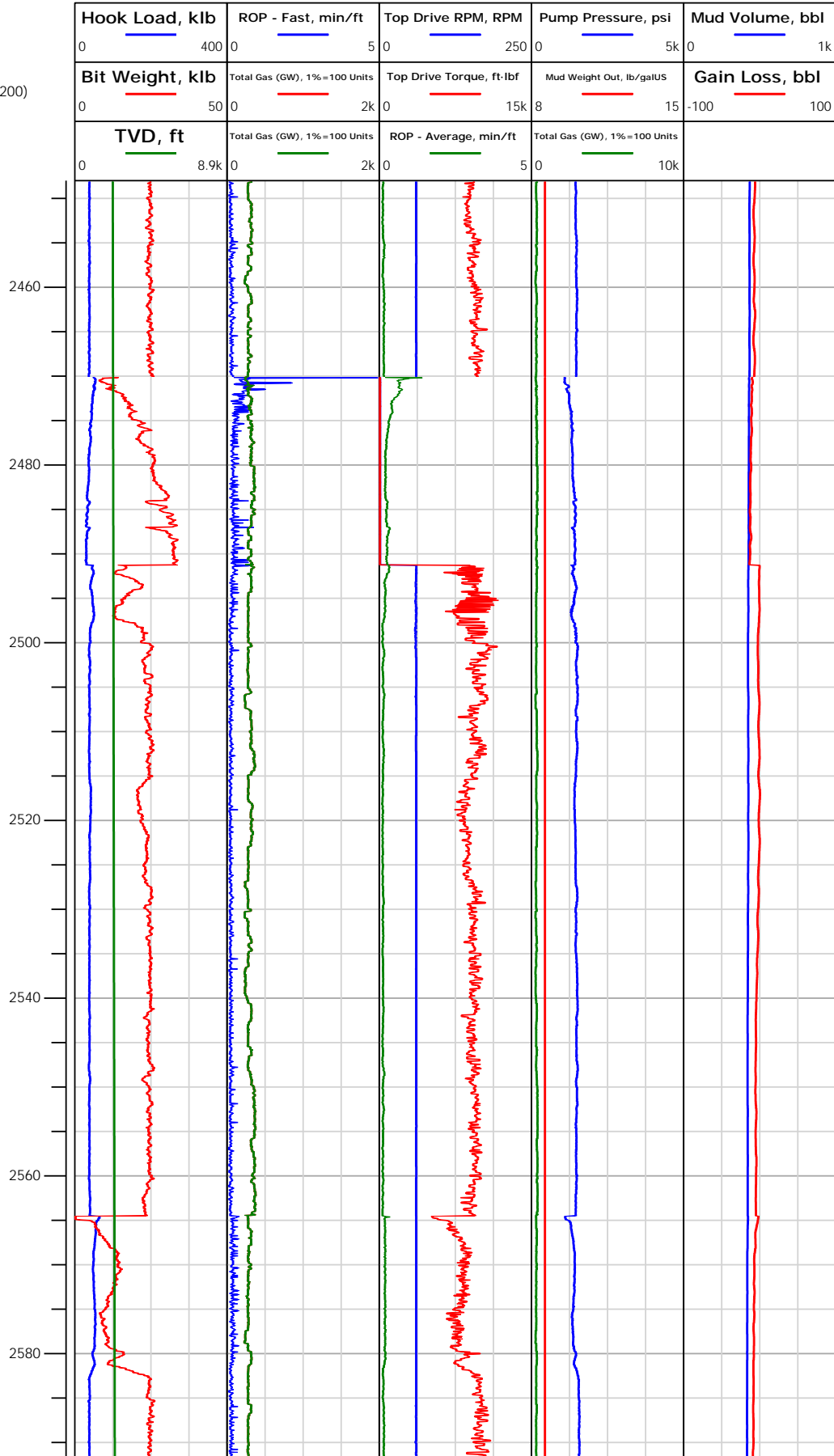
07:44

07:46

07:48

07:50

07:56







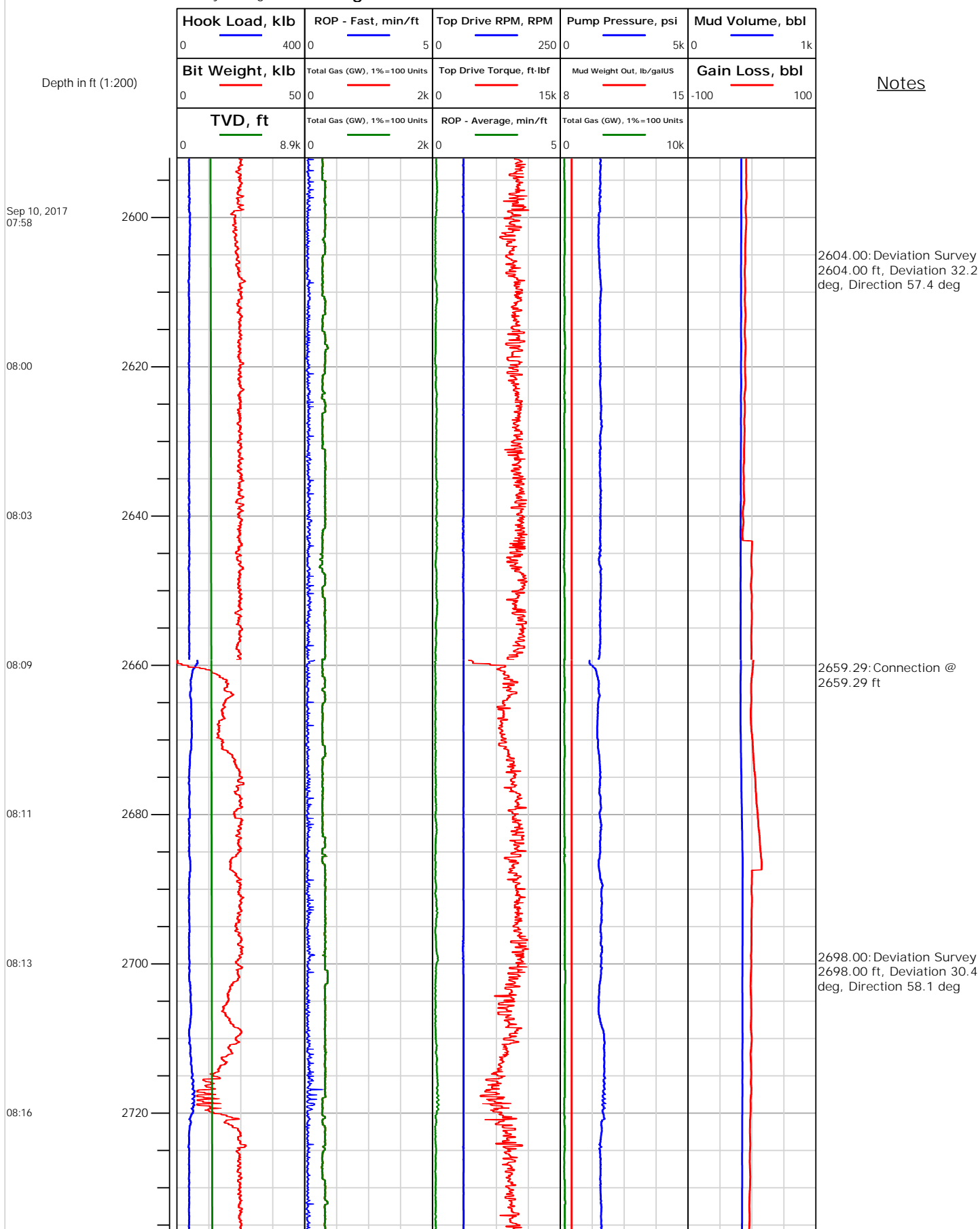
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**Operator:** Laramie Energy  
**Contractor:** Helmerich & Payne Drlg Co

**Well Name:** Bruton 19-04E  
**Rig:** 290

**Location:** SE/4 of NW/4

## Notes





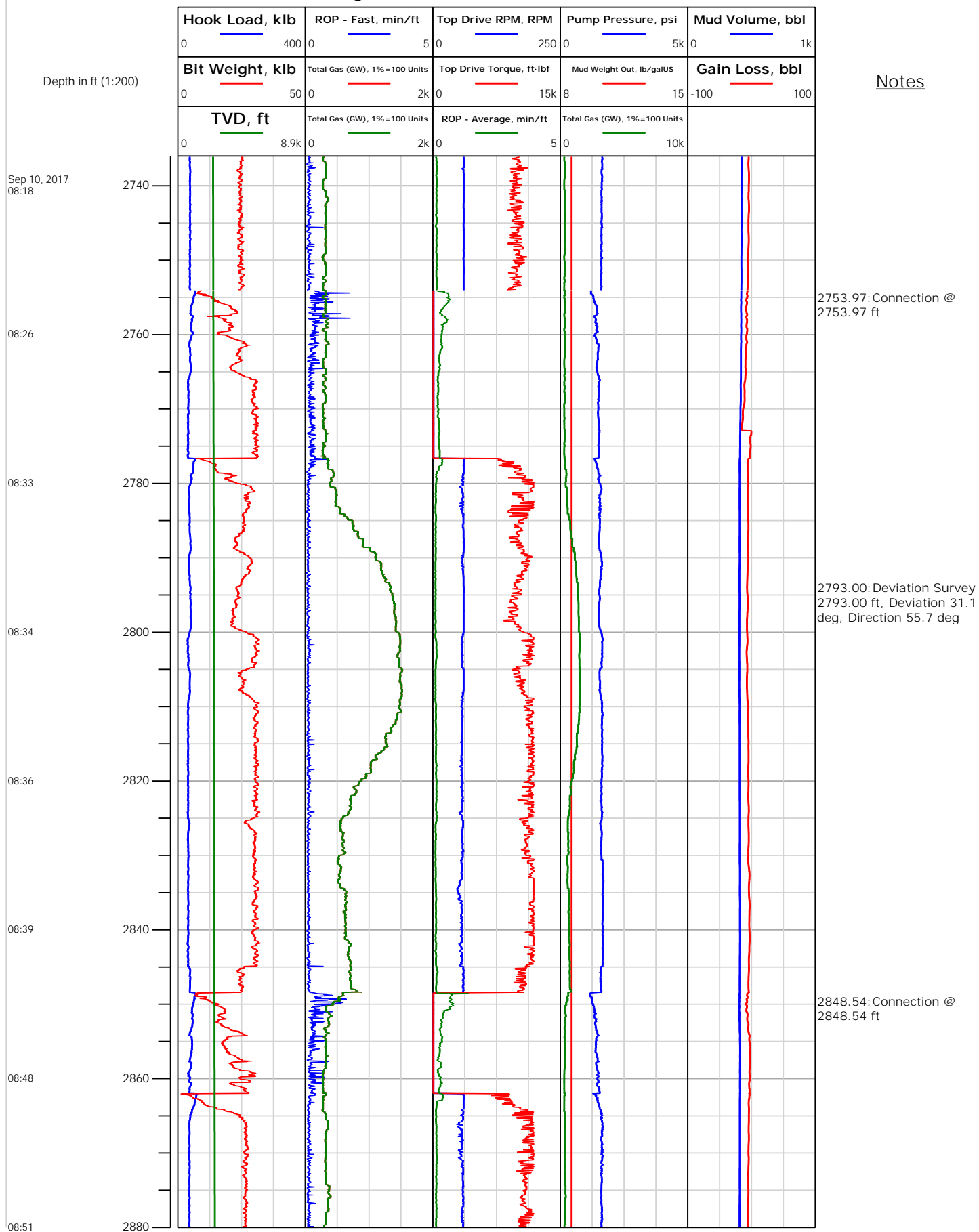
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Operator: Laramie Energy  
Contractor: Helmerich & Payne Drlg Co

Well Name: Bruton 19-04E  
Rig: 290

Location: SE/4 of NW/4

Notes





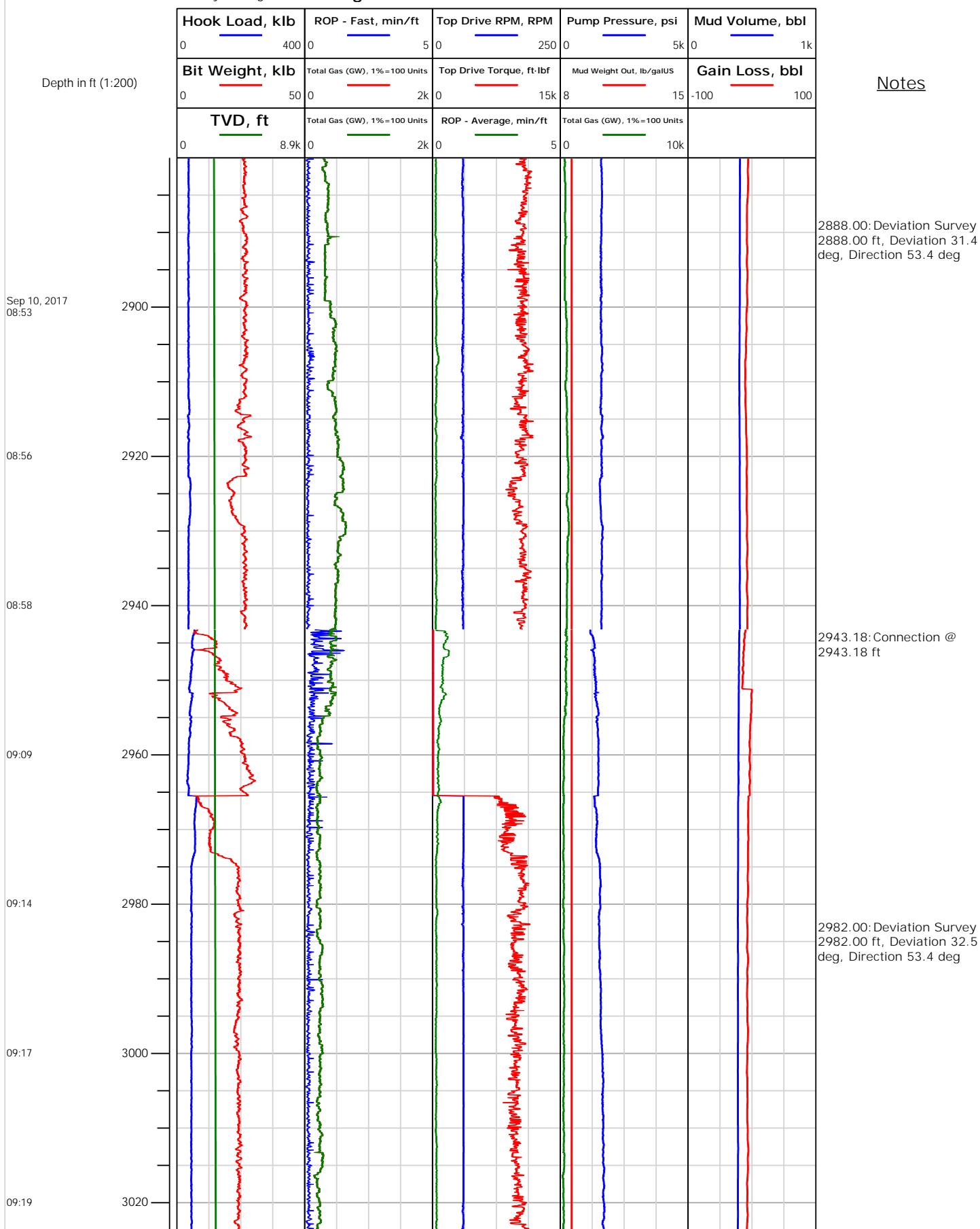
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**Operator:** Laramie Energy  
**Contractor:** Helmerich & Payne Drlg Co

**Well Name:** Bruton 19-04E  
**Rig:** 290

**Location:** SE/4 of NW/4

## Notes





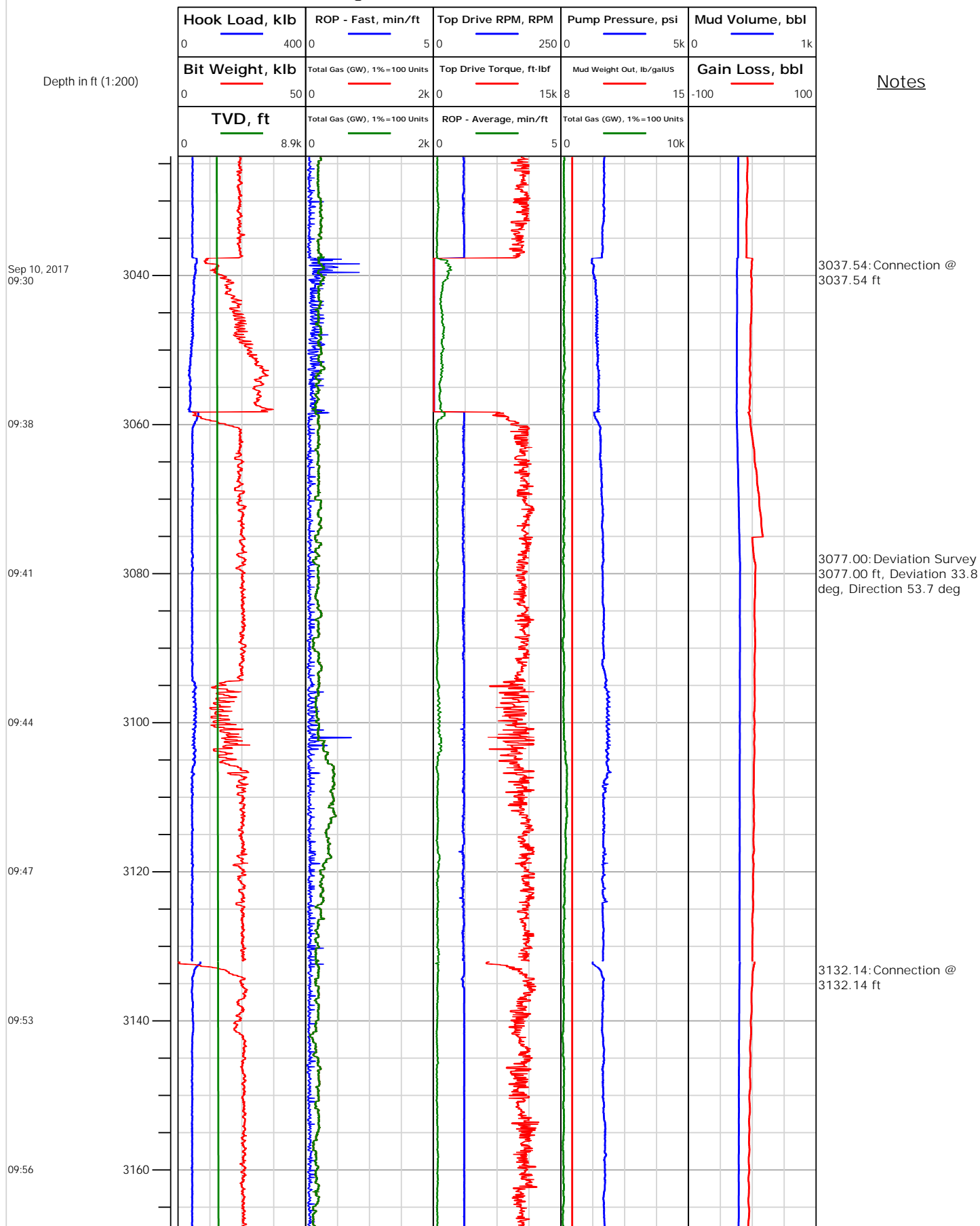
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Operator: Laramie Energy  
Contractor: Helmerich & Payne Drlg Co

Well Name: Bruton 19-04E  
Rig: 290

Location: SE/4 of NW/4

## Notes





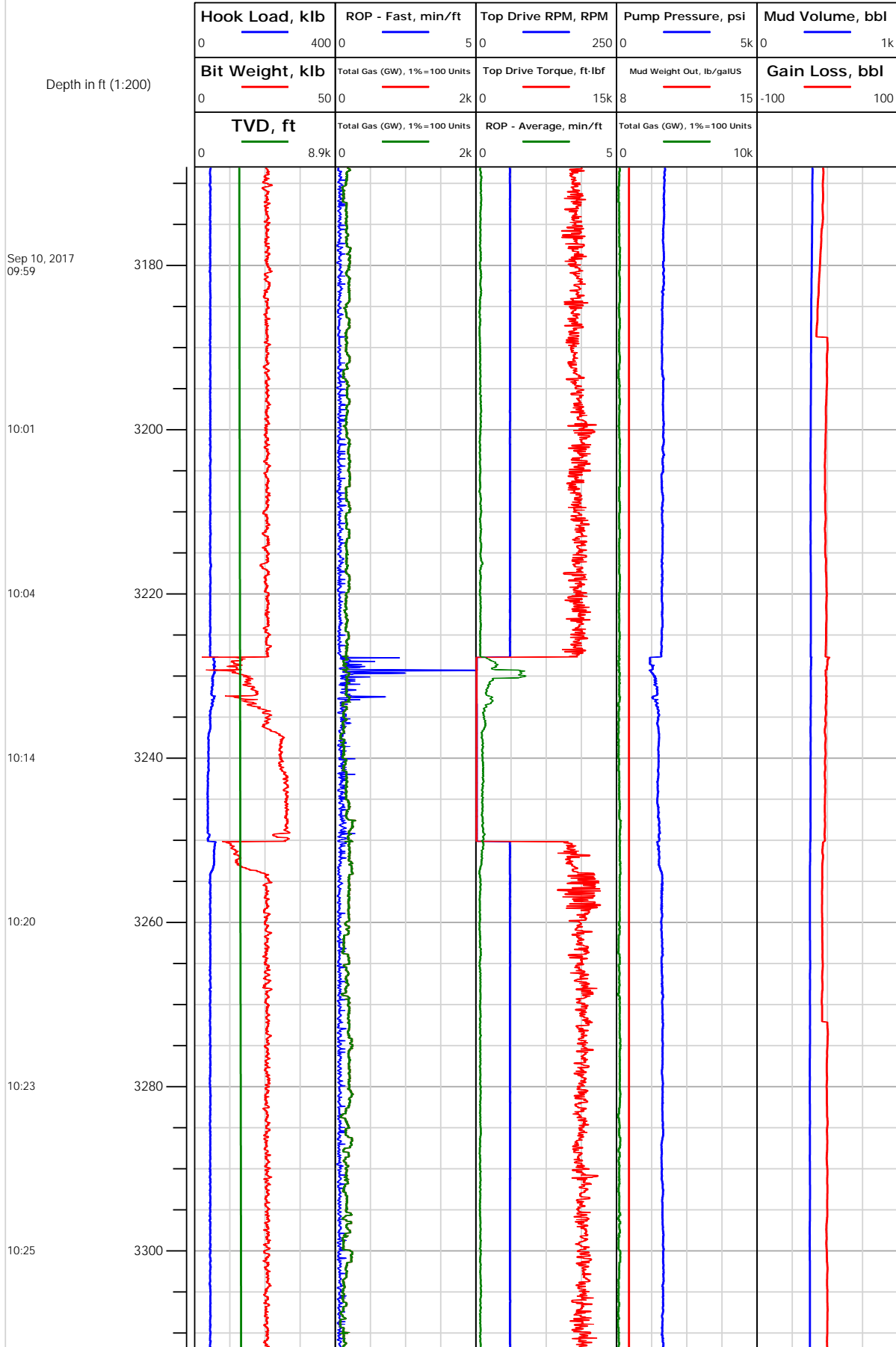
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**Operator:** Laramie Energy  
**Contractor:** Helmerich & Payne Drlg Co

**Well Name:** Bruton 19-04E  
**Rig:** 290

**Location:** SE/4 of NW/4

## Notes





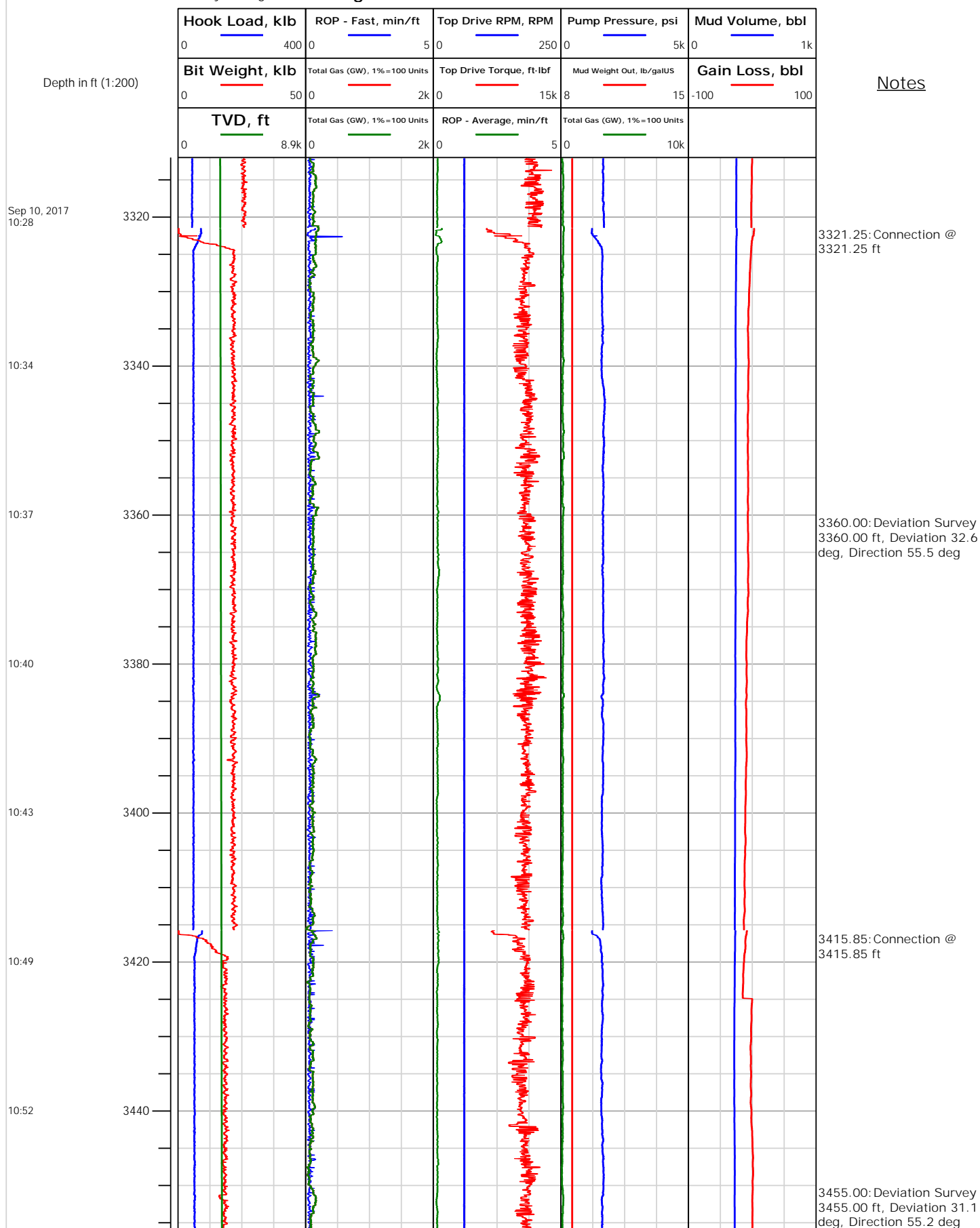
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Operator: Laramie Energy  
Contractor: Helmerich & Payne Drlg Co

Well Name: Bruton 19-04E  
Rig: 290

Location: SE/4 of NW/4

Notes





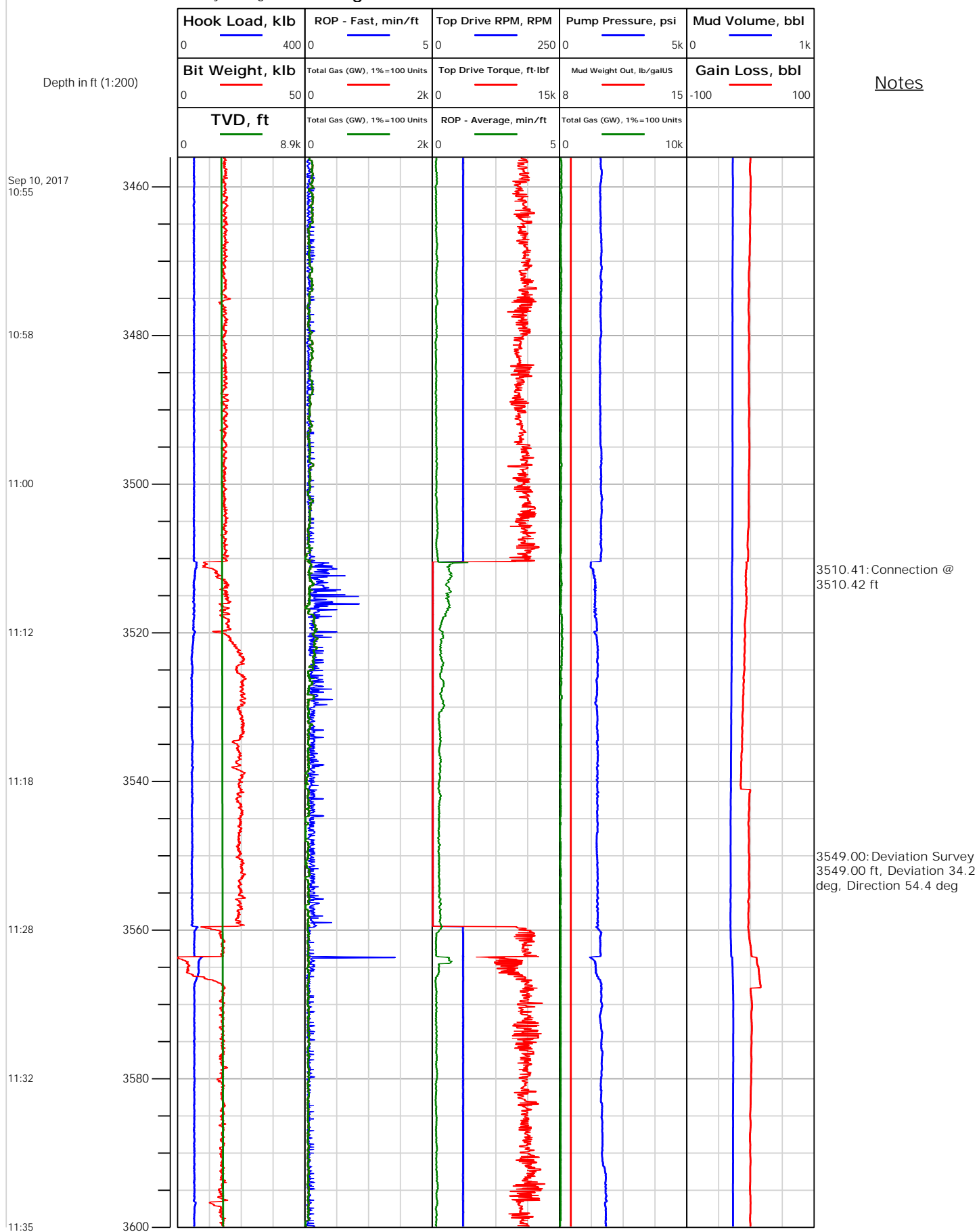
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Contractor: Helmerich & Payne Drlg Co

Well Name: Bruton 19-04E  
Rig: 290

Location: SE/4 of NW/4

Notes





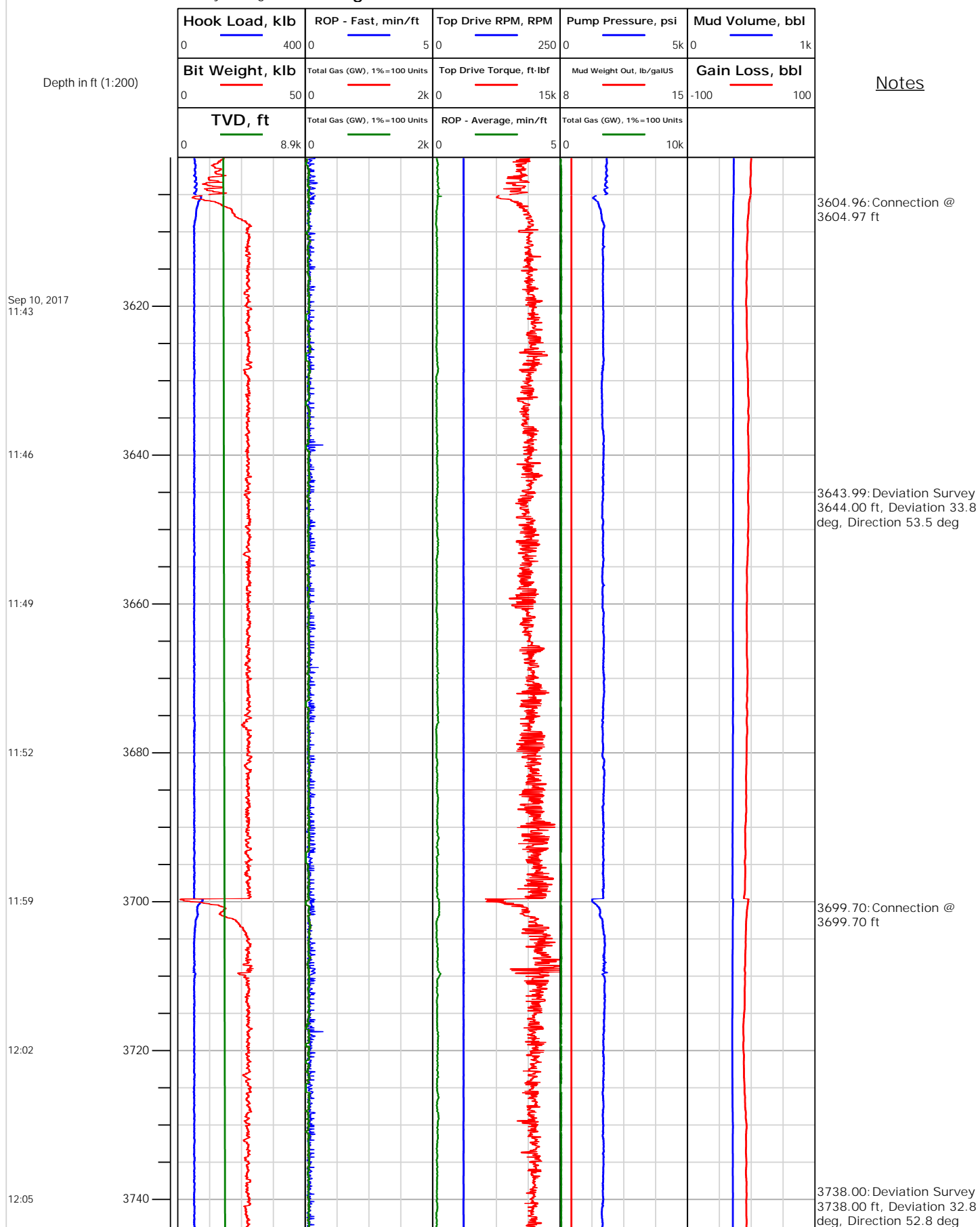
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Operator: Laramie Energy  
Contractor: Helmerich & Payne Drlg Co

Well Name: Bruton 19-04E  
Rig: 290

Location: SE/4 of NW/4

## Notes







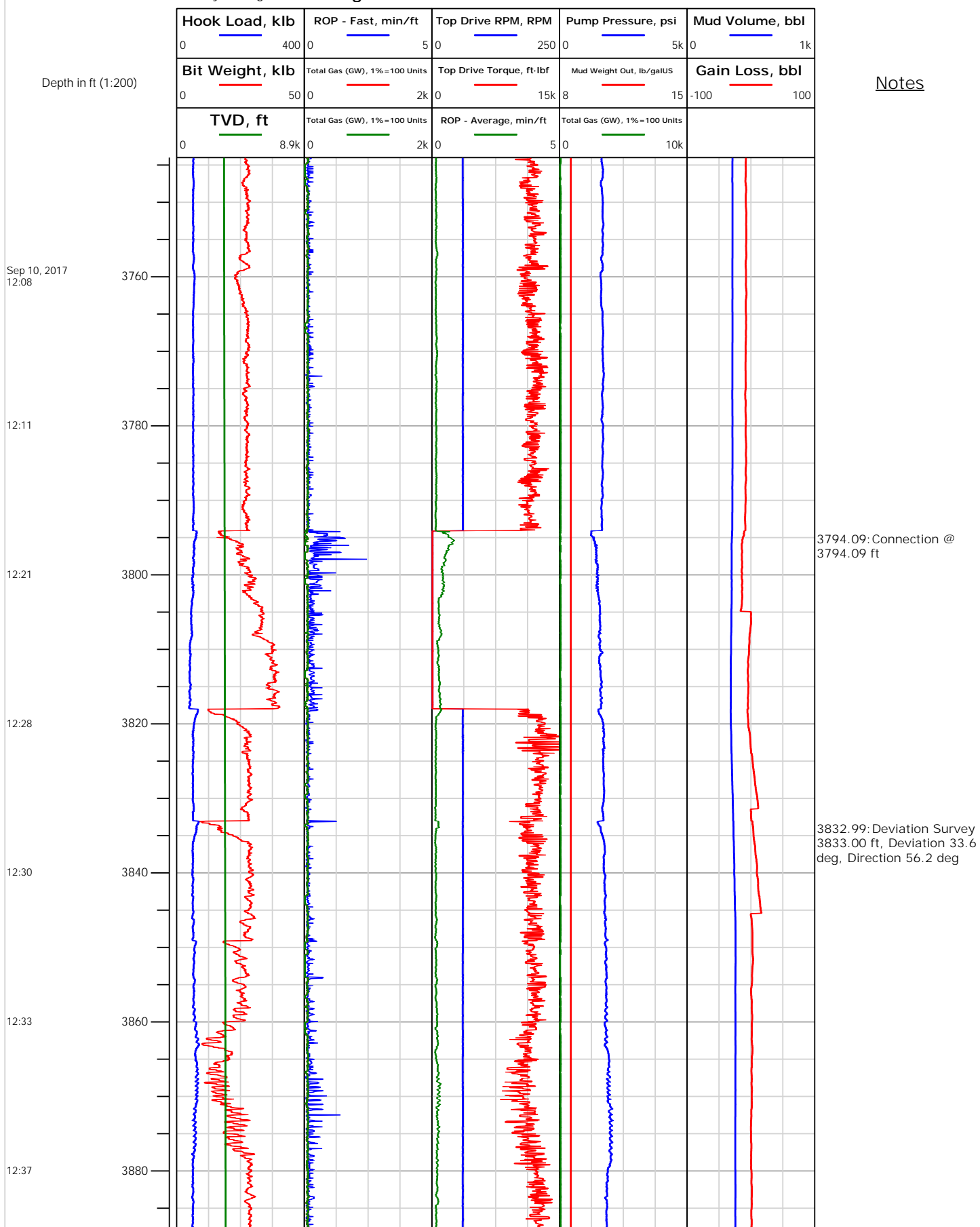
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**Operator:** Laramie Energy  
**Contractor:** Helmerich & Payne Drlg Co

**Well Name:** Bruton 19-04E  
**Rig:** 290

**Location:** SE/4 of NW/4

Notes





# Electronic Drilling Recorder

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

**Well Name:** Bruton 19-04E  
**Rig:** 290

**Location:** SE/4 of NW/4

## Notes

Depth in ft (1:200)

Sep 10, 2017  
12:57

13:00

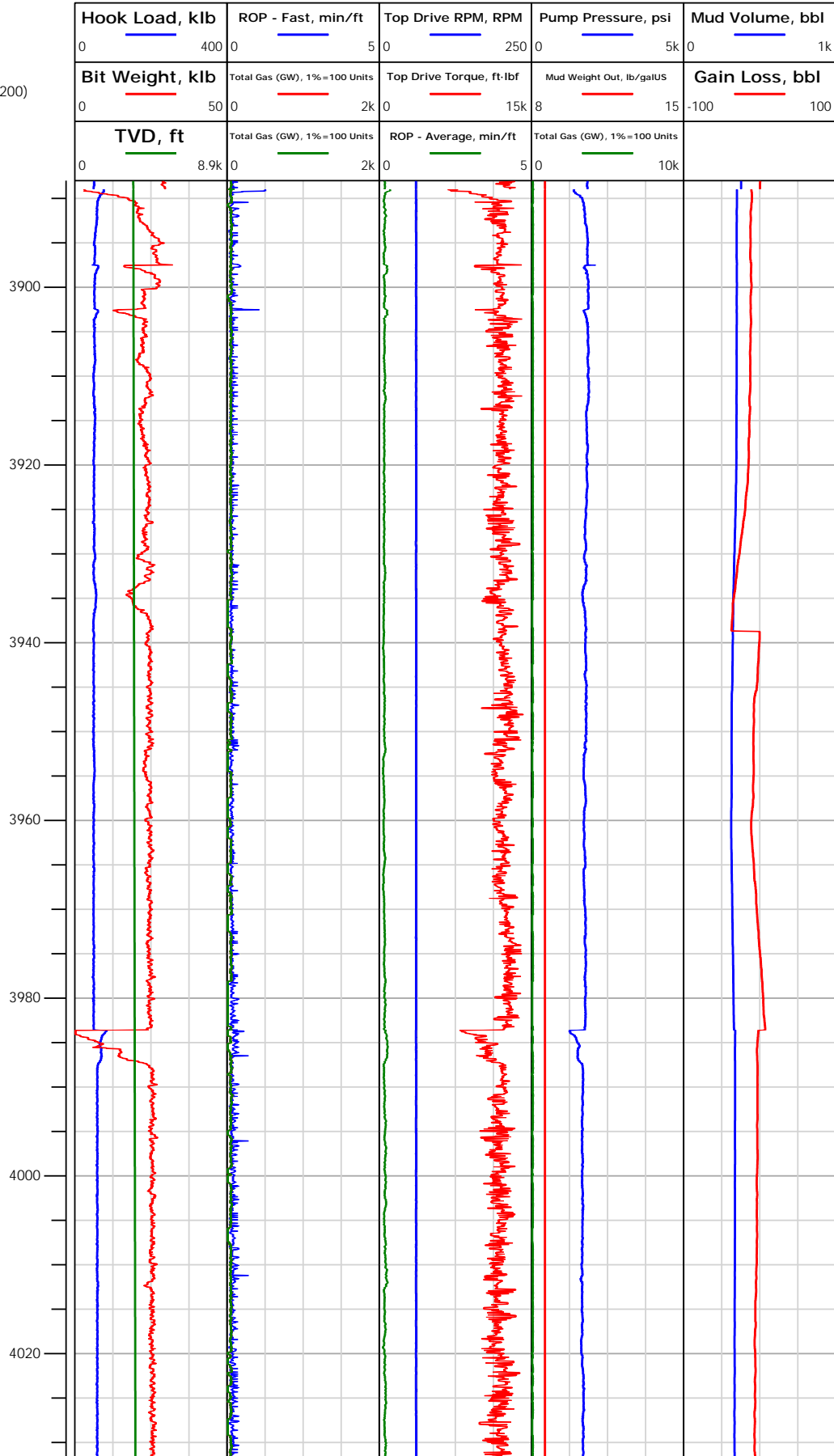
13:03

13:05

13:08

13:16

13:20





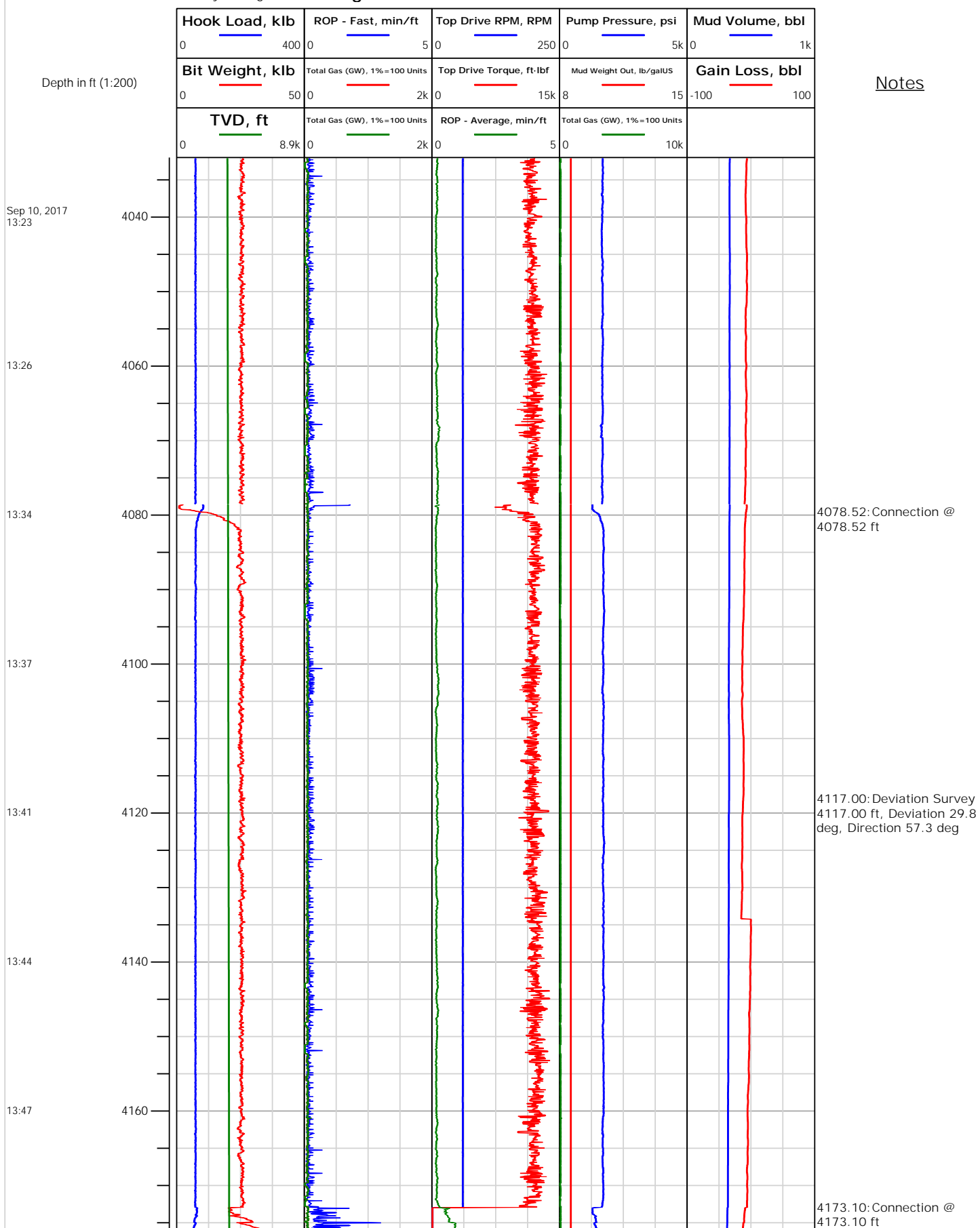
# Electronic Drilling Recorder

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

**Well Name:** Bruton 19-04E  
**Rig:** 290

**Location:** SE/4 of NW/4

## Notes



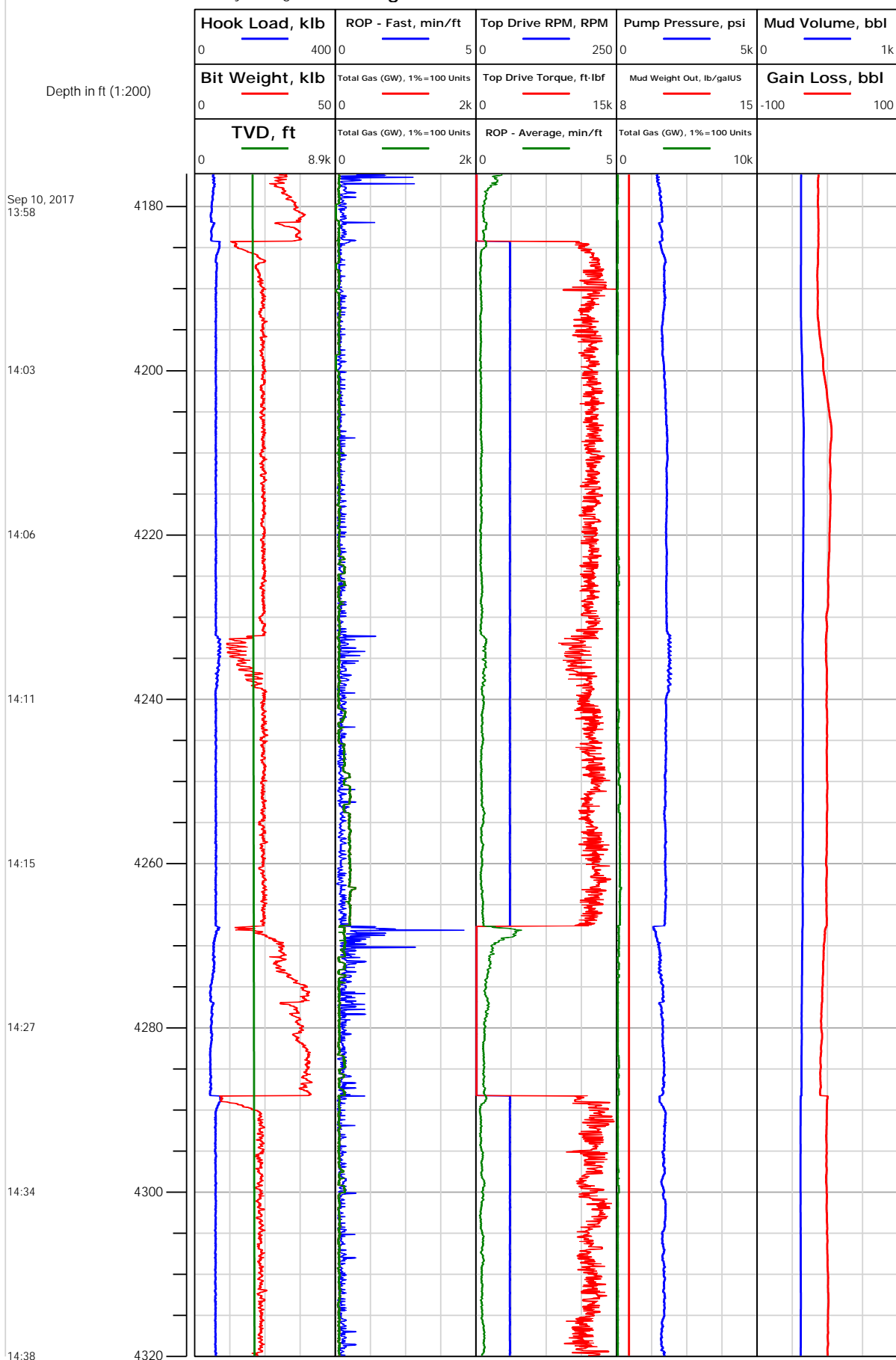


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Operator: Laramie Energy  
Contractor: Helmerich & Payne Drlg Co

Well Name: Bruton 19-04E  
Rig: 290

Location: SE/4 of NW/4



Notes



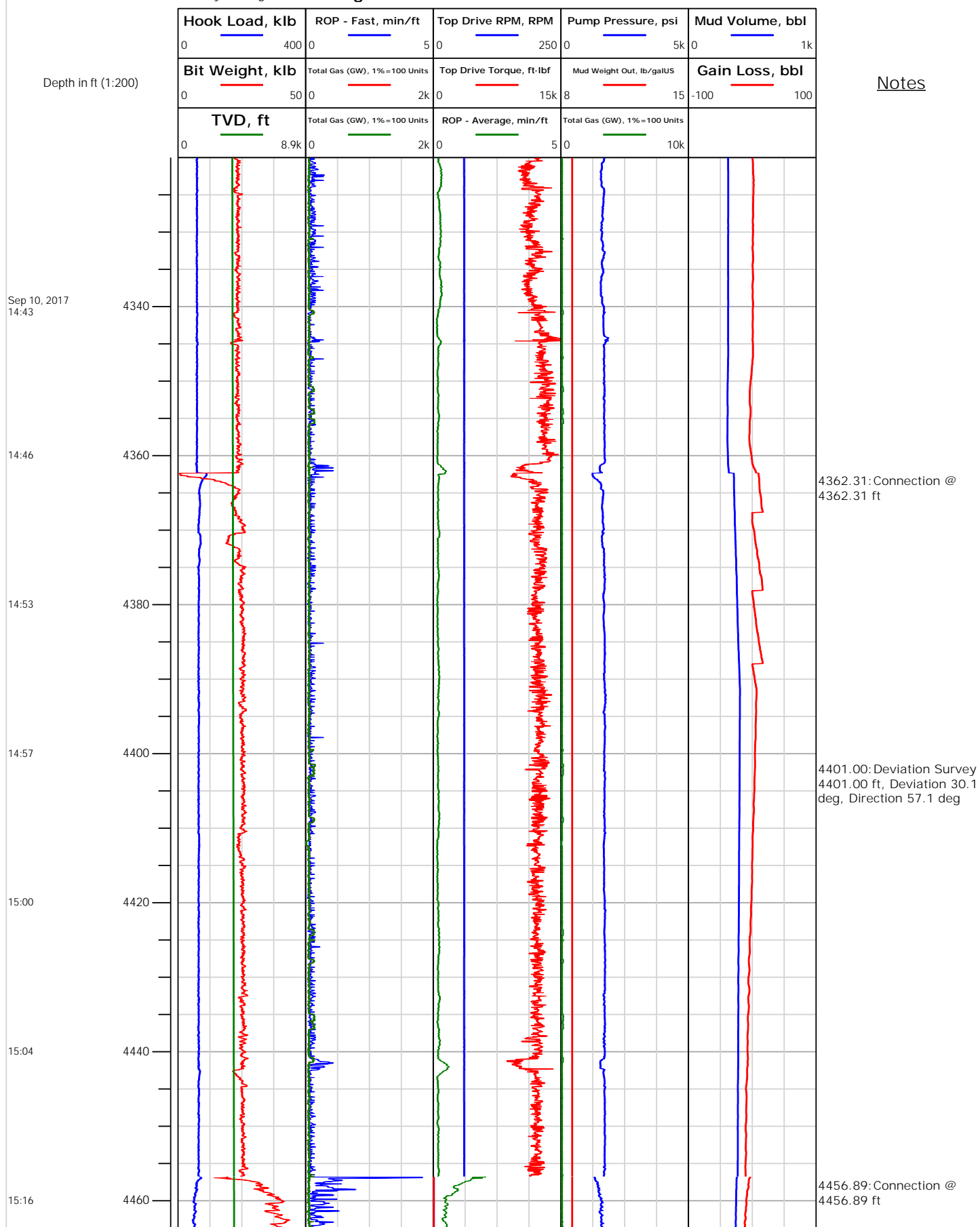
Operator: Laramie Energy  
Contractor: Helmerich & Payne Drlg Co

# Electronic Drilling Recorder

Well Name: Bruton 19-04E  
Rig: 290

Location: SE/4 of NW/4

Notes





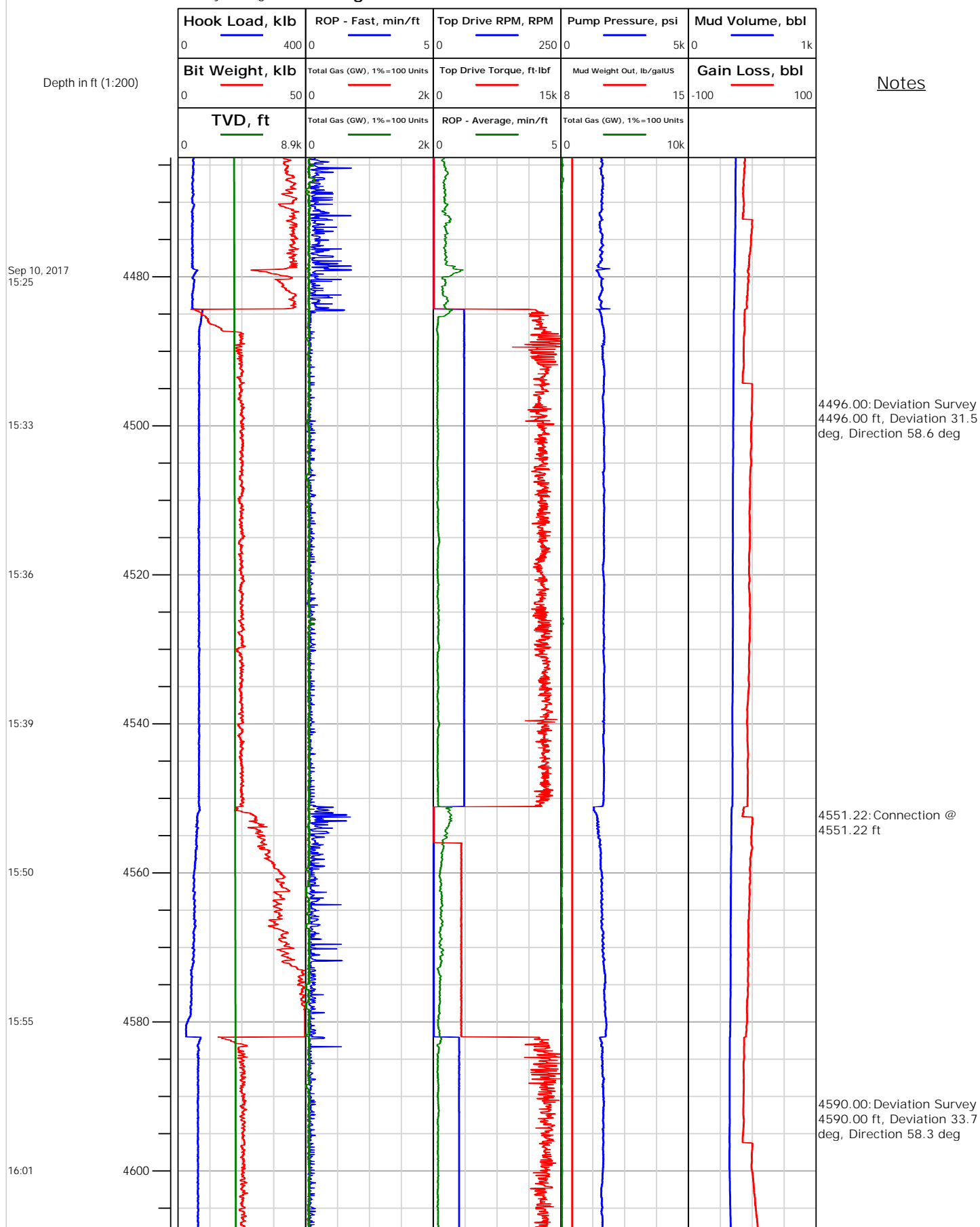
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Operator: Laramie Energy  
Contractor: Helmerich & Payne Drlg Co

Well Name: Bruton 19-04E  
Rig: 290

Location: SE/4 of NW/4

## Notes





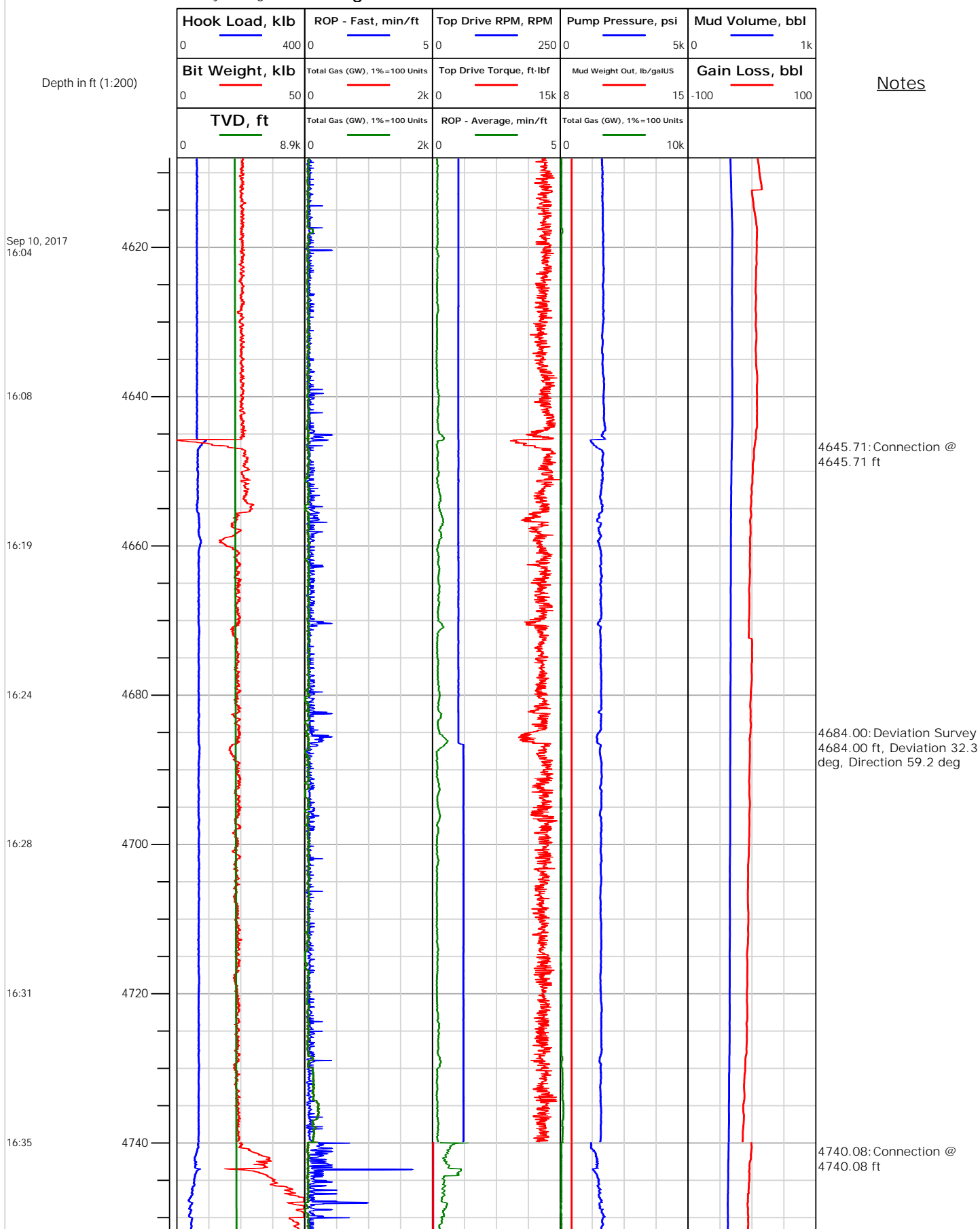
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**Operator:** Laramie Energy  
**Contractor:** Helmerich & Payne Drlg Co

**Well Name:** Bruton 19-04E  
**Rig:** 290

**Location:** SE/4 of NW/4

Notes





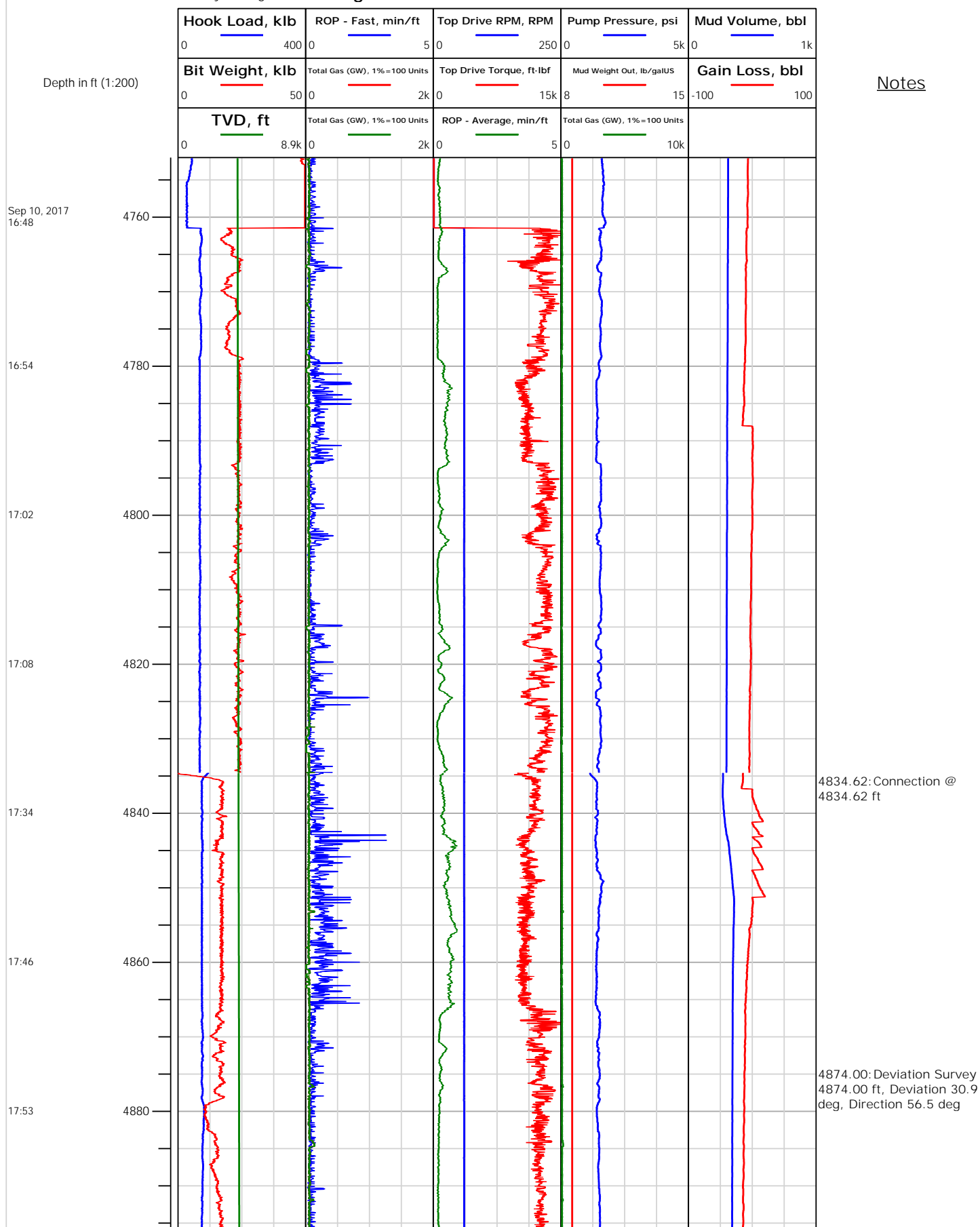
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Operator: Laramie Energy  
Contractor: Helmerich & Payne Drlg Co

Well Name: Bruton 19-04E  
Rig: 290

Location: SE/4 of NW/4

Notes







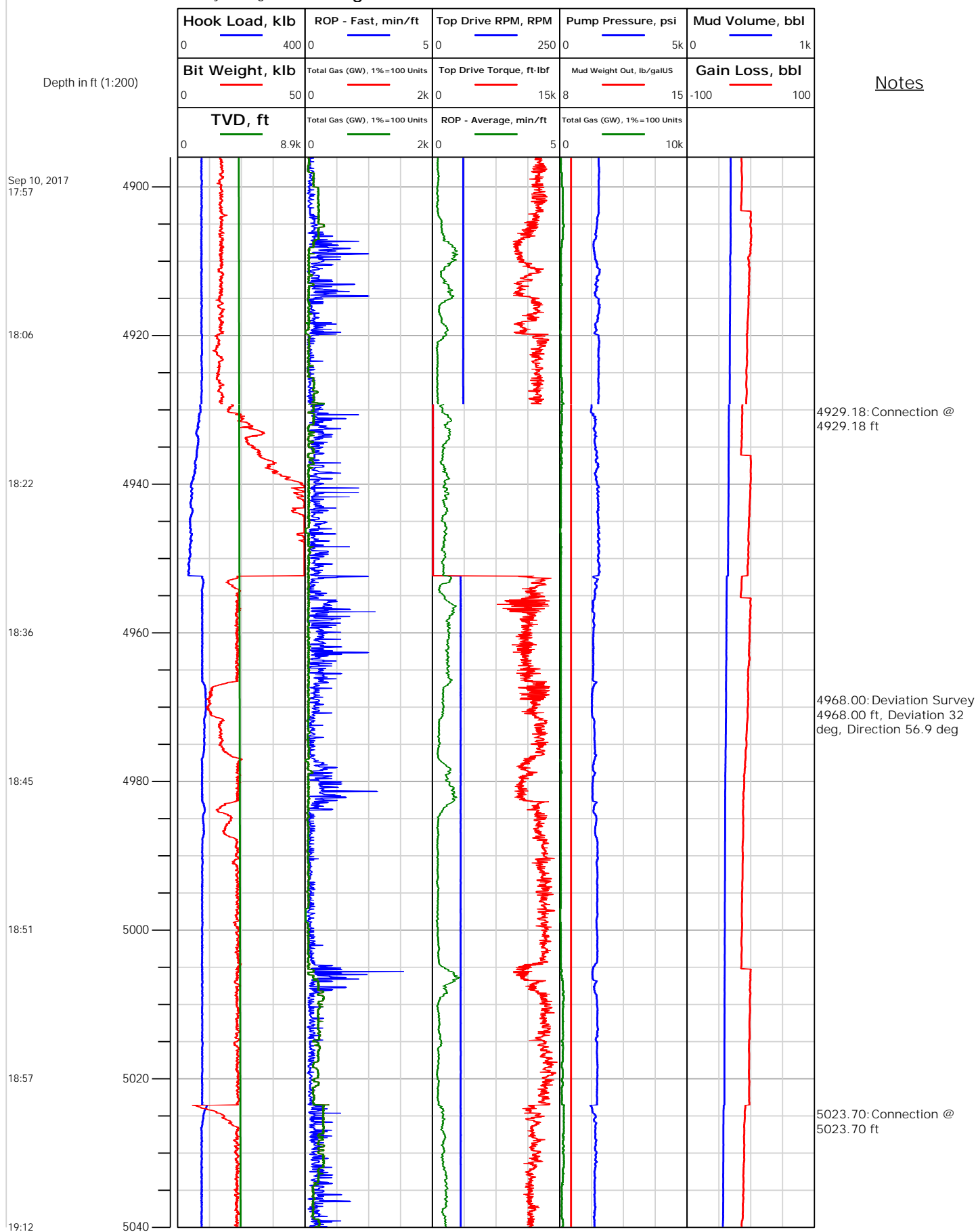
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Operator: Laramie Energy  
Contractor: Helmerich & Payne Drlg Co

Well Name: Bruton 19-04E  
Rig: 290

Location: SE/4 of NW/4

Notes





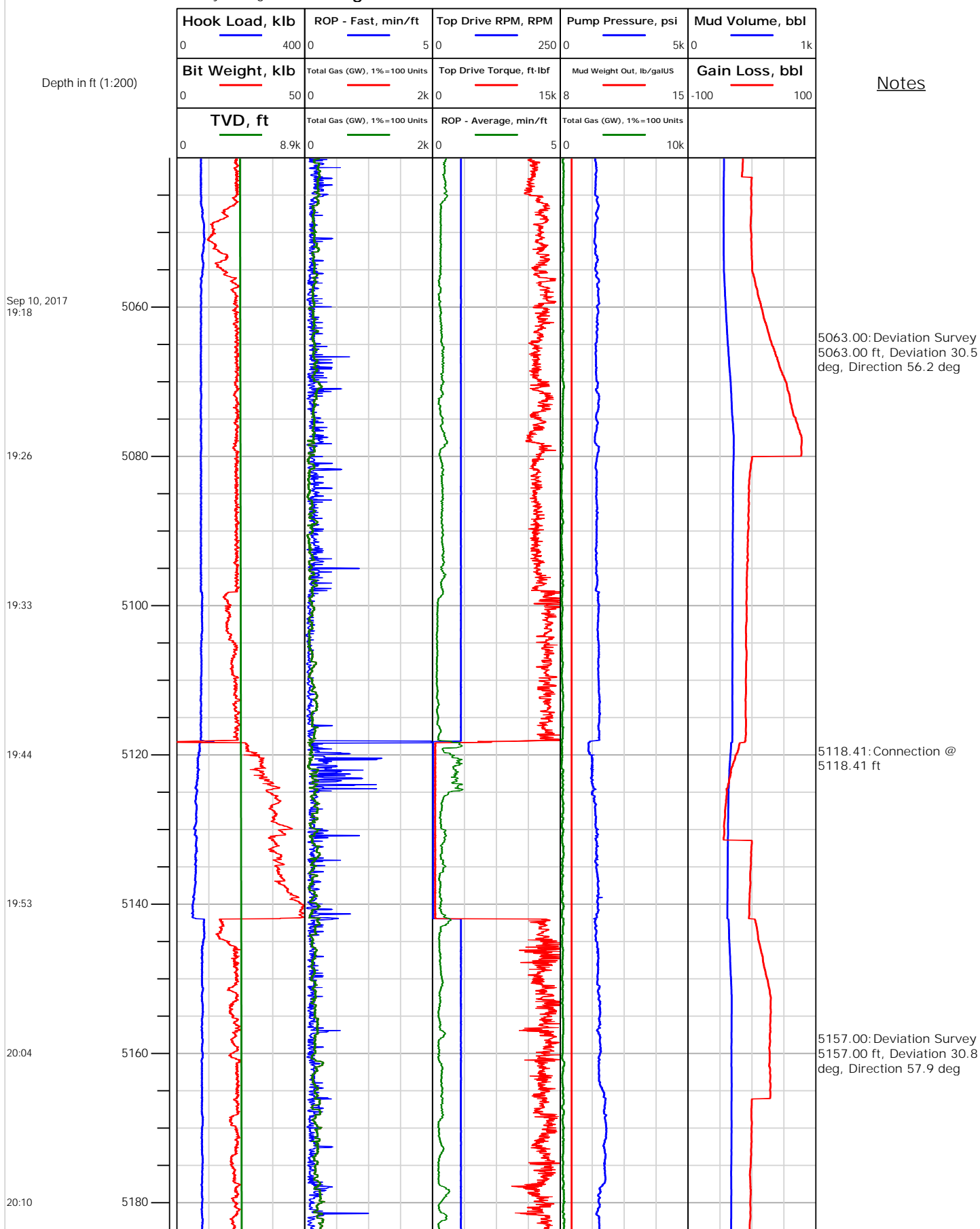
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**Operator:** Laramie Energy  
**Contractor:** Helmerich & Payne Drlg Co

**Well Name:** Bruton 19-04E  
**Rig:** 290

**Location:** SE/4 of NW/4

## Notes



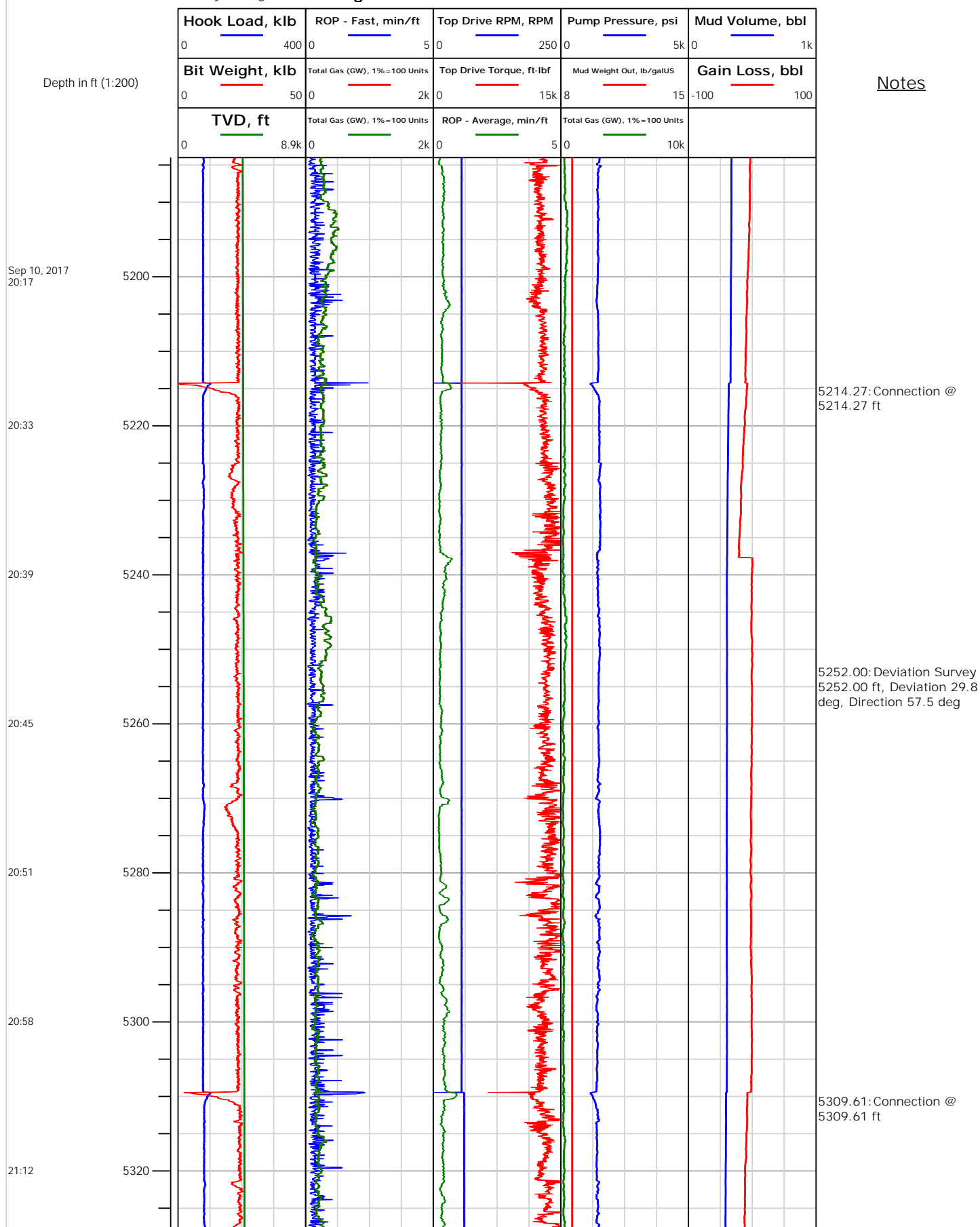


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Operator: Laramie Energy  
Contractor: Helmerich & Payne Drlg Co

Well Name: Bruton 19-04E  
Rig: 290

Location: SE/4 of NW/4





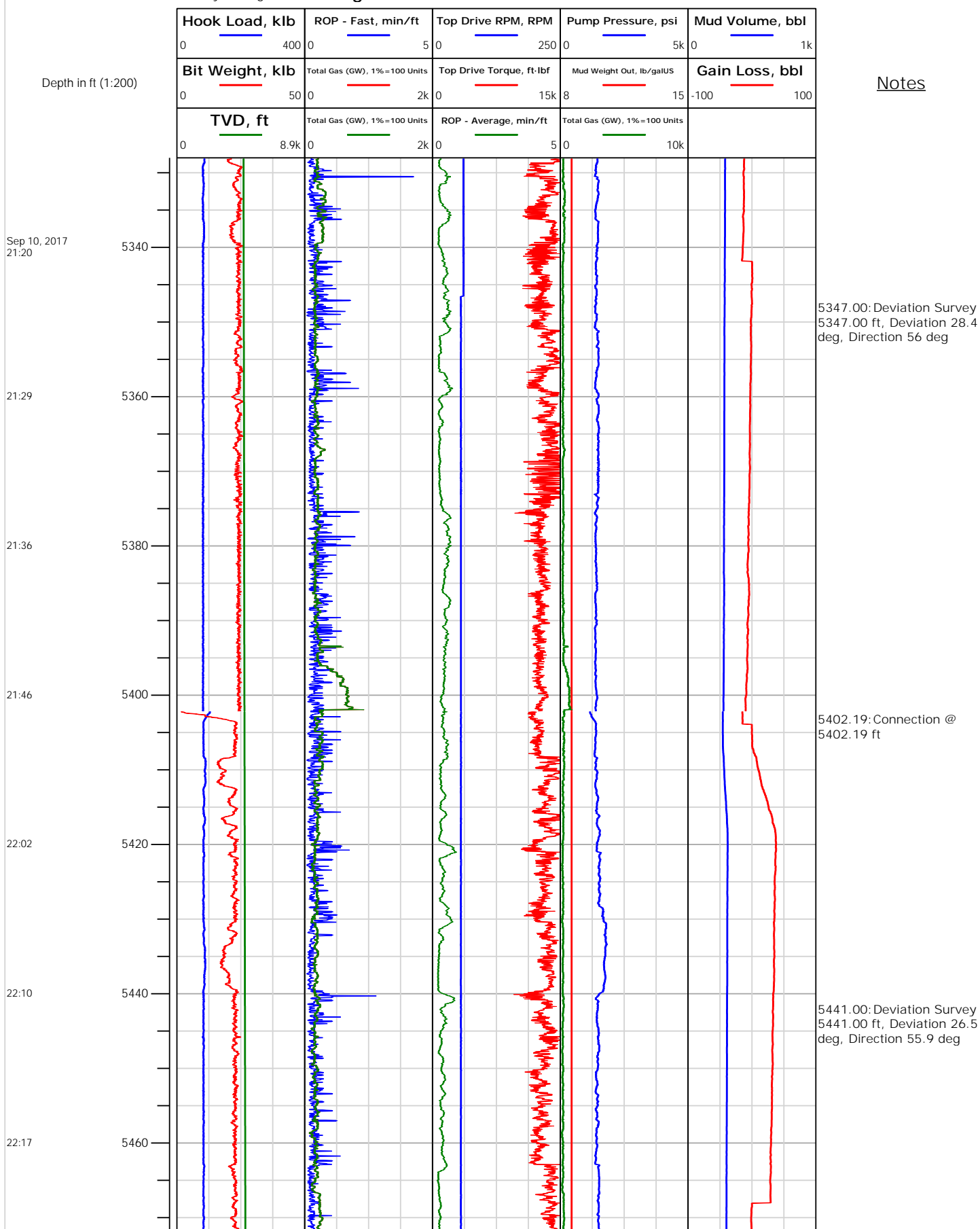
# Electronic Drilling Recorder

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

**Well Name:** Bruton 19-04E  
**Rig:** 290

**Location:** SE/4 of NW/4

## Notes





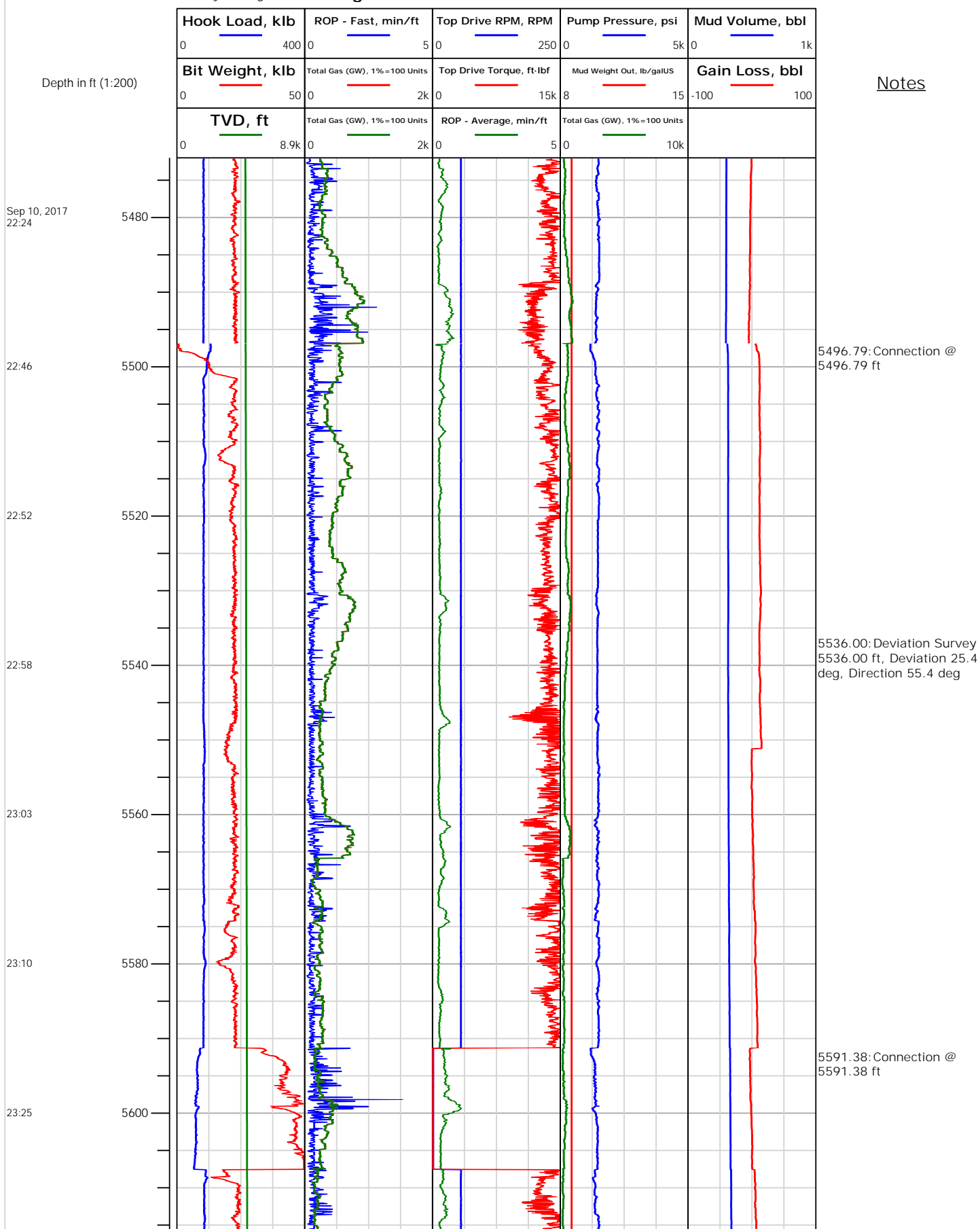
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**Operator:** Laramie Energy  
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**Well Name:** Bruton 19-04E  
**Rig:** 290

**Location:** SE/4 of NW/4

## Notes





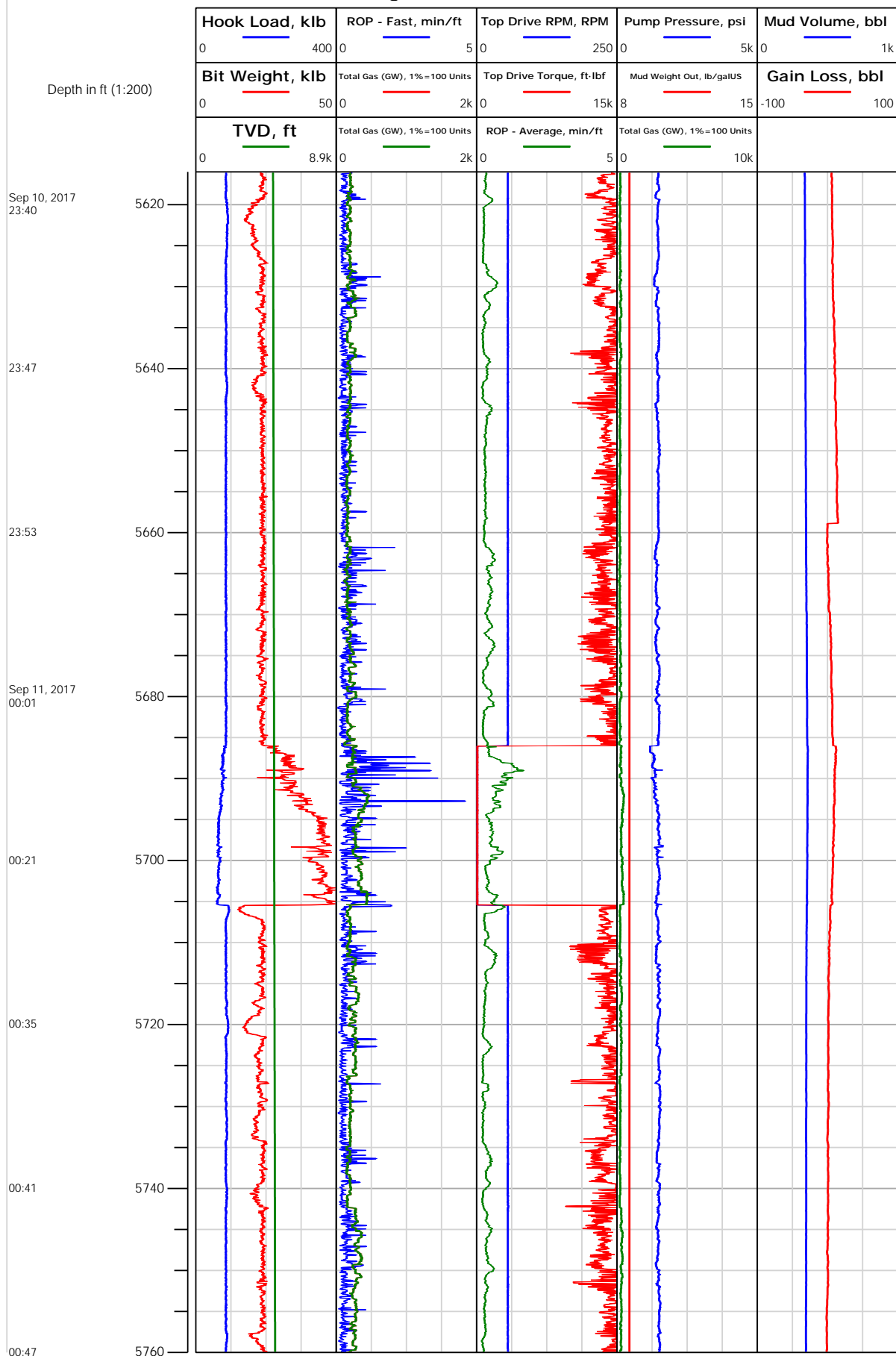
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**Well Name:** Bruton 19-04E  
**Rig:** 290

**Location:** SE/4 of NW/4

Notes





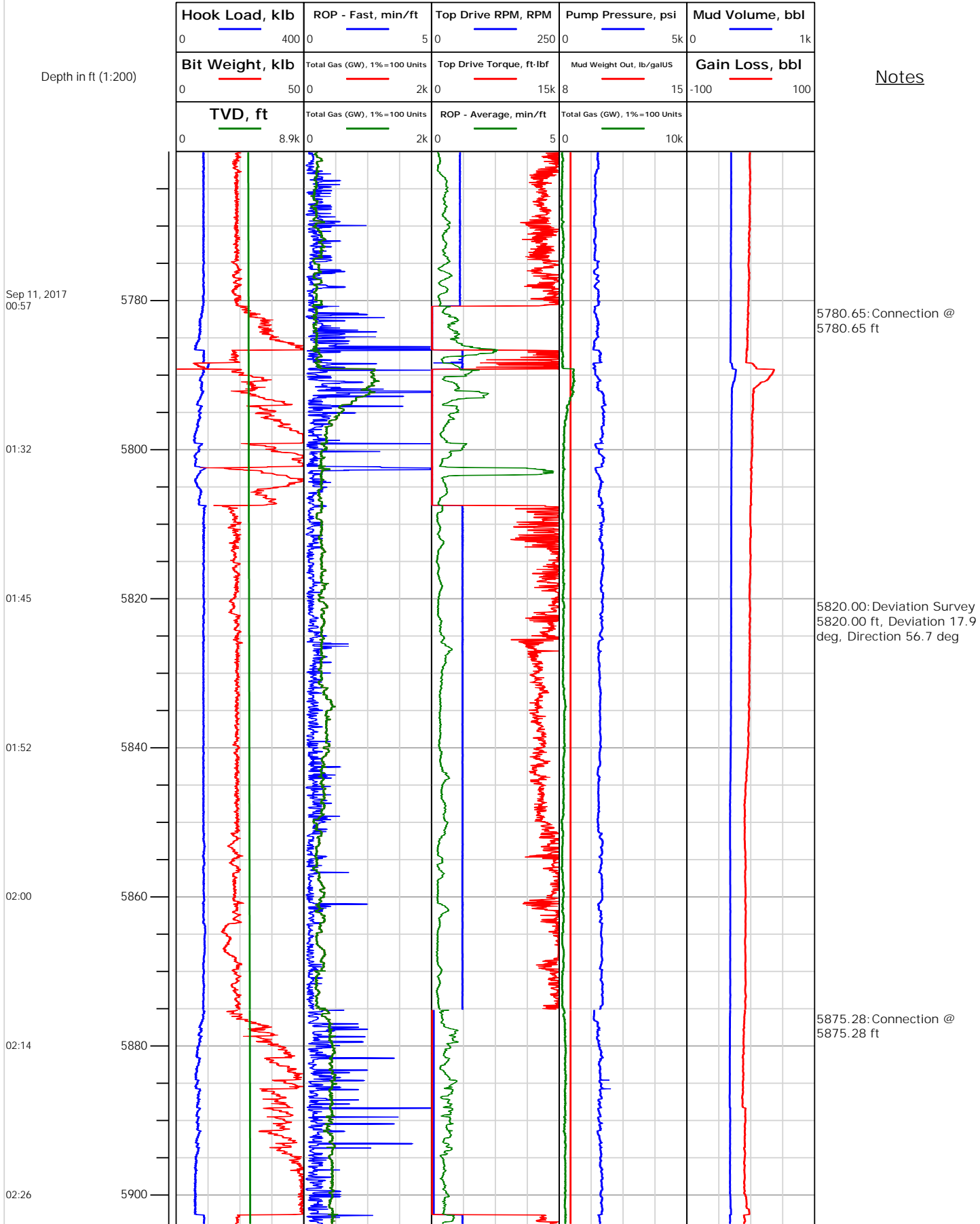
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**Contractor:** Helmerich & Payne Drlg Co

**Well Name:** Bruton 19-04E  
**Rig:** 290

**Location:** SE/4 of NW/4

Notes





# Electronic Drilling Recorder

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

**Well Name:** Bruton 19-04E  
**Rig:** 290

**Location:** SE/4 of NW/4

## Notes

Depth in ft (1:200)

Sep 11, 2017  
02:39

02:48

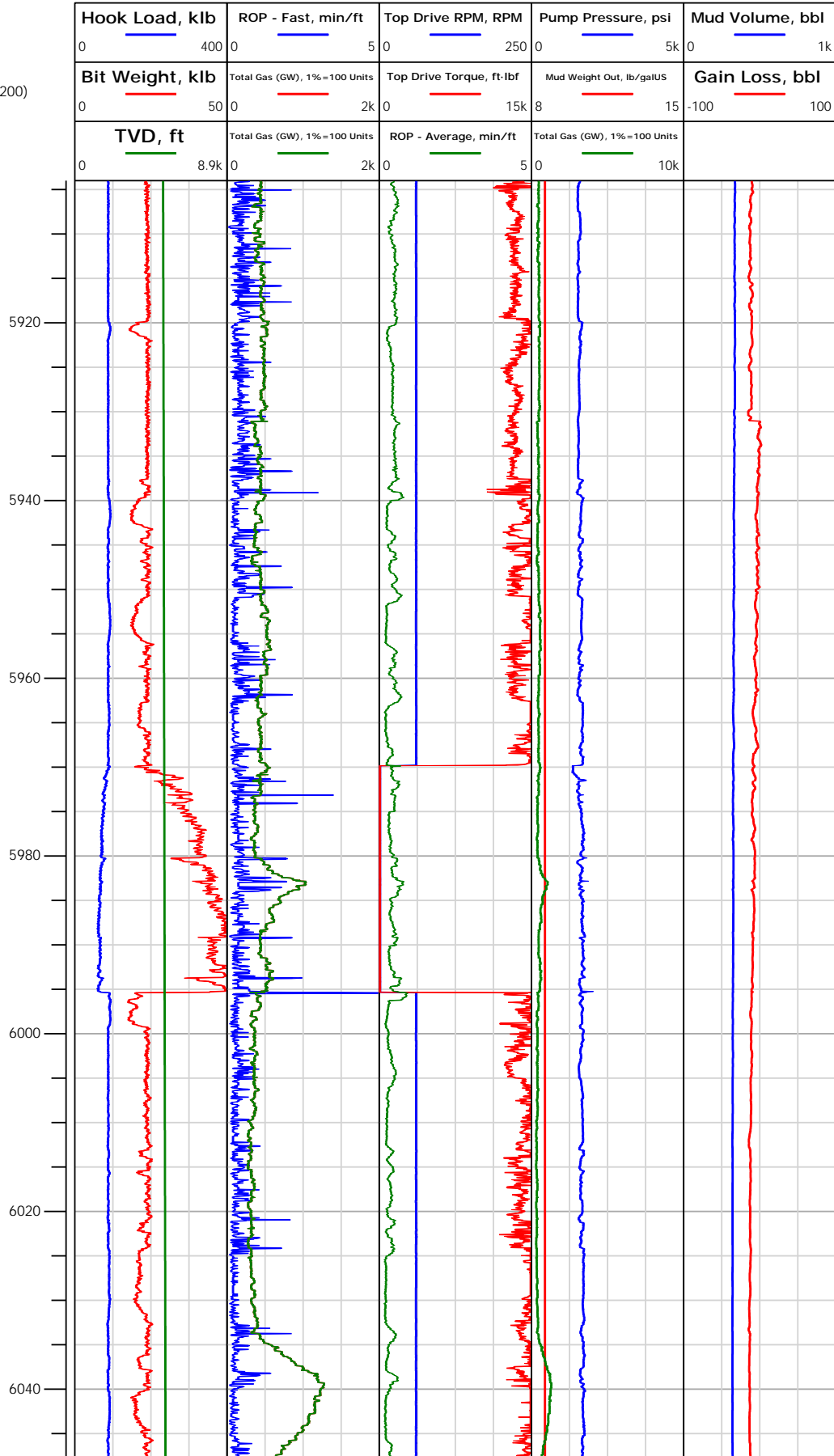
02:55

03:10

03:22

03:28

03:34



5914.00: Deviation Survey  
5914.00 ft, Deviation 14.6  
deg, Direction 54.8 deg

5969.88: Connection @  
5969.88 ft

6009.00: Deviation Survey  
6009.00 ft, Deviation 11.6  
deg, Direction 50.1 deg





# Electronic Drilling Recorder

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

**Well Name:** Bruton 19-04E  
**Rig:** 290

**Location:** SE/4 of NW/4

## Notes

Depth in ft (1:200)

Sep 11, 2017  
 03:40

03:56

04:07

04:13

04:20

04:35

04:50

6060

6080

6100

6120

6140

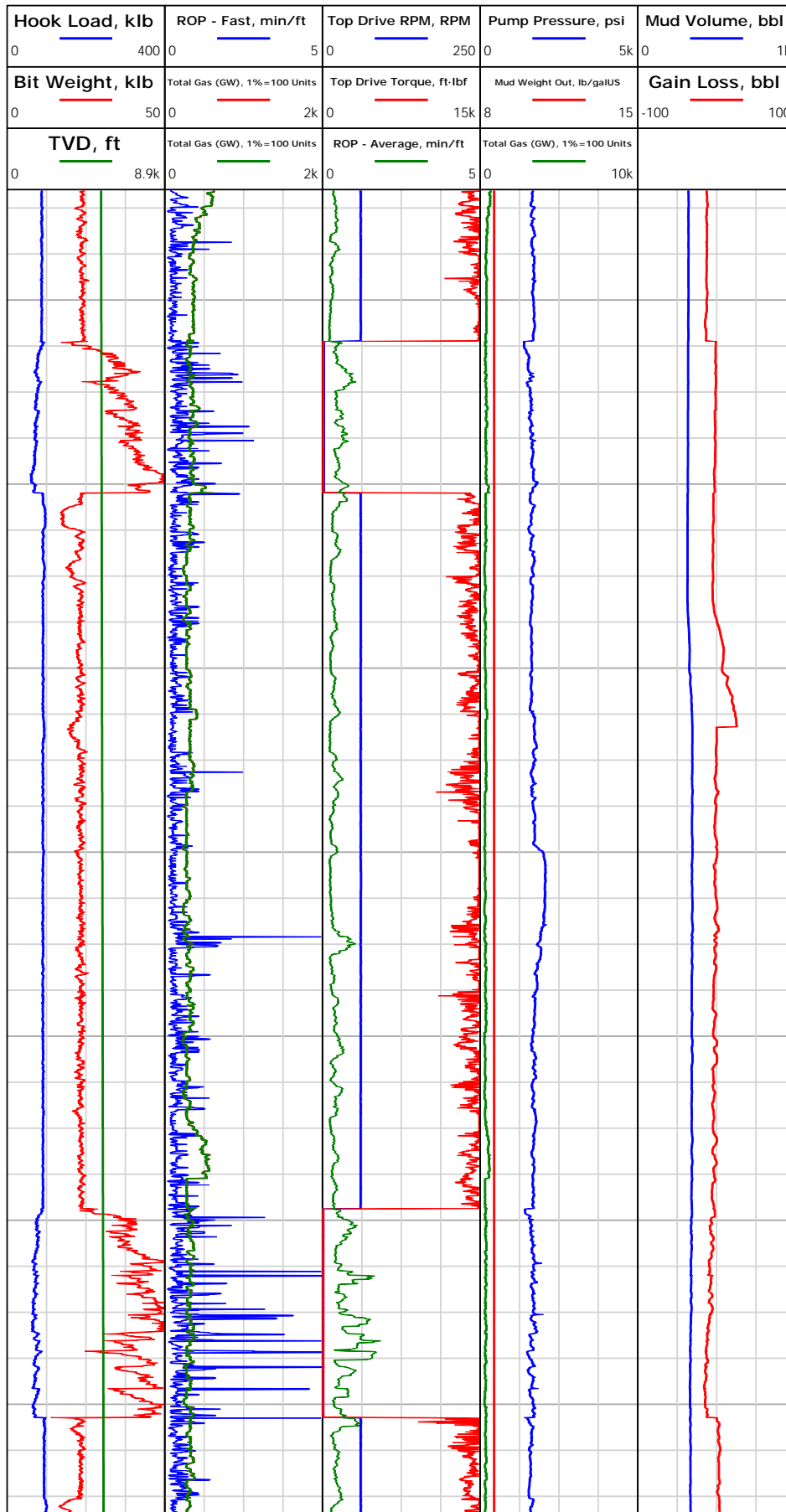
6160

6180

6064.37: Connection @  
 6064.37 ft

6103.00: Deviation Survey  
 6103.00 ft, Deviation 9.4  
 deg, Direction 50.6 deg

6158.89: Connection @  
 6158.89 ft





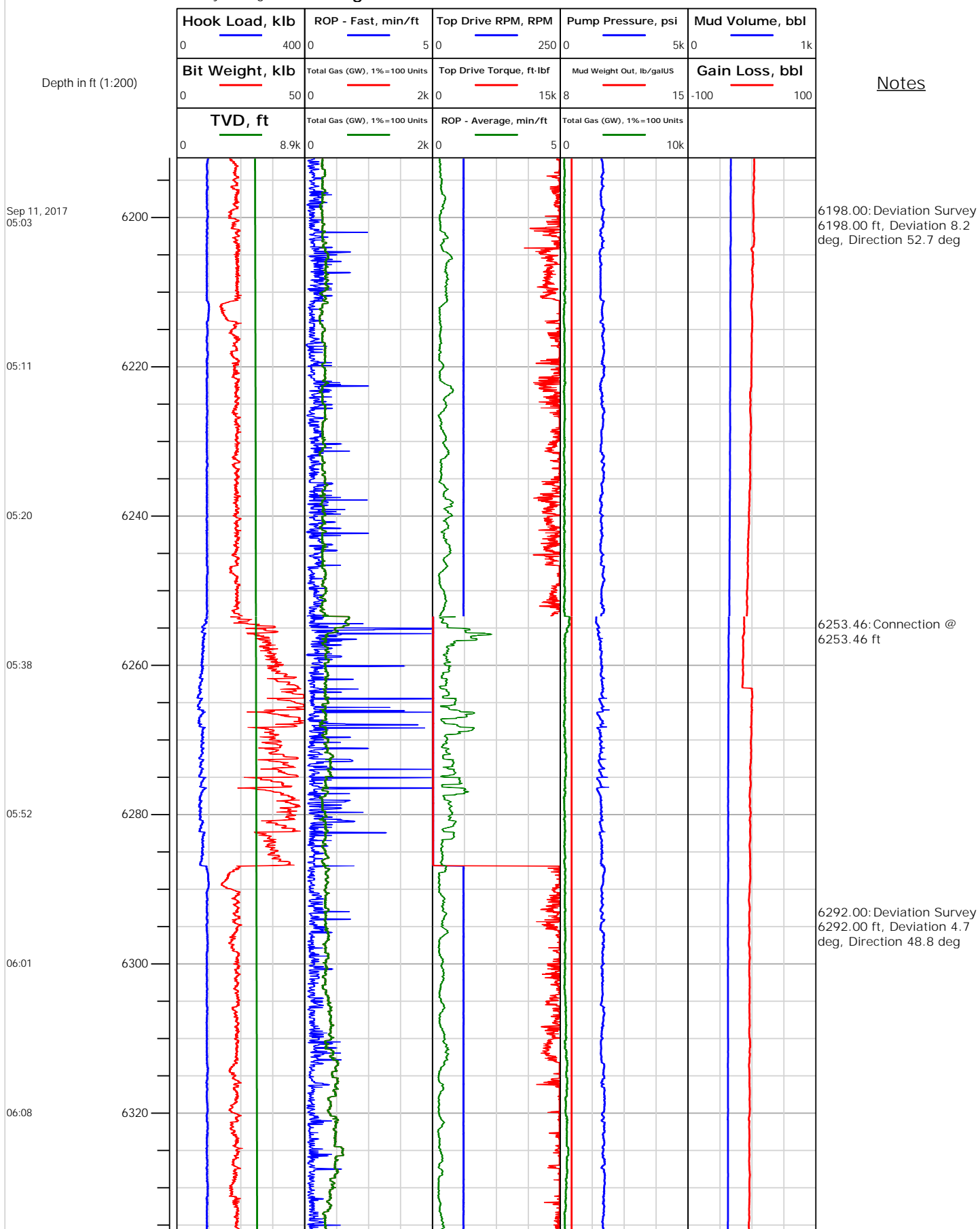
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**Operator:** Laramie Energy  
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**Well Name:** Bruton 19-04E  
**Rig:** 290

**Location:** SE/4 of NW/4

## Notes





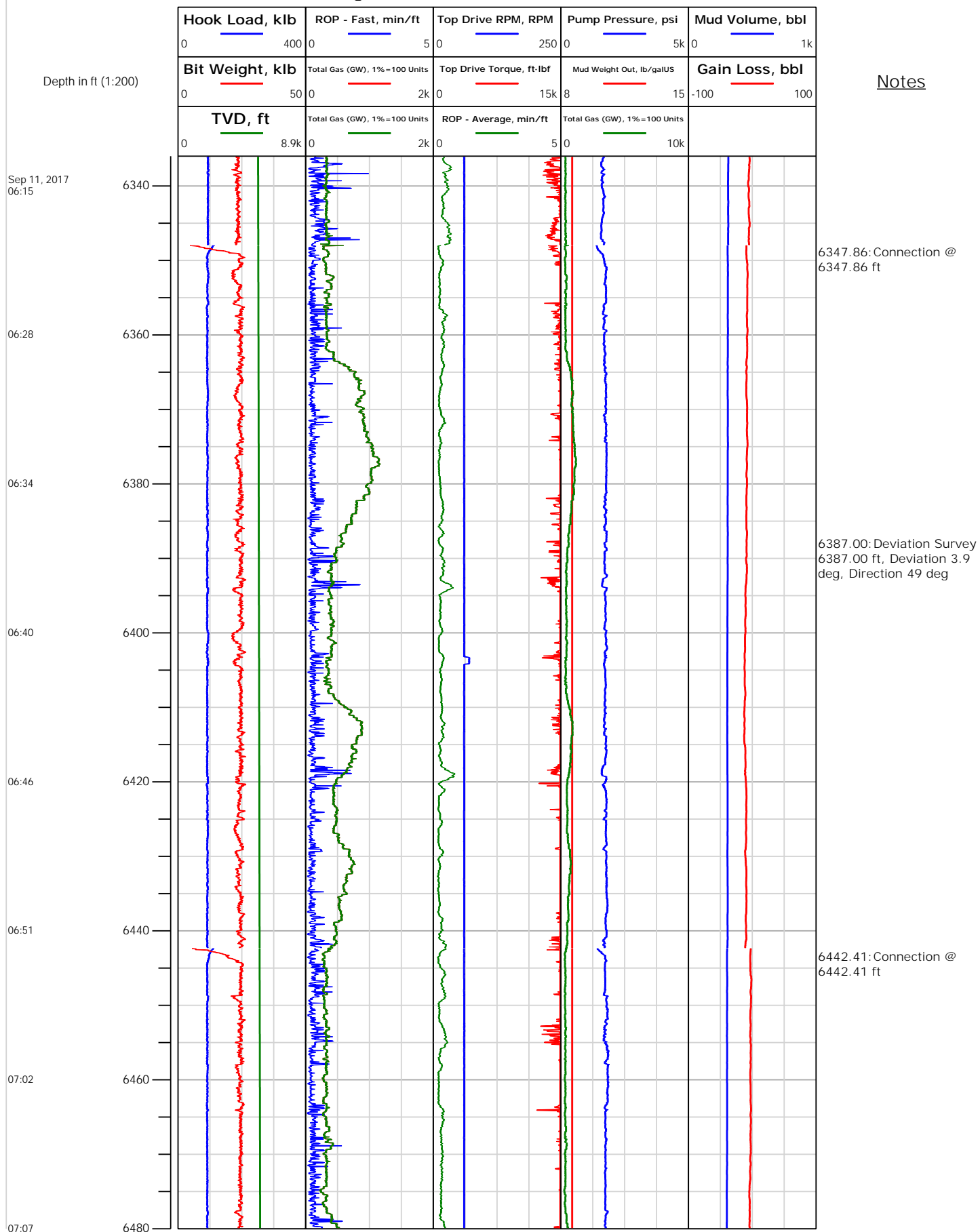
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**Rig:** 290

**Location:** SE/4 of NW/4

## Notes





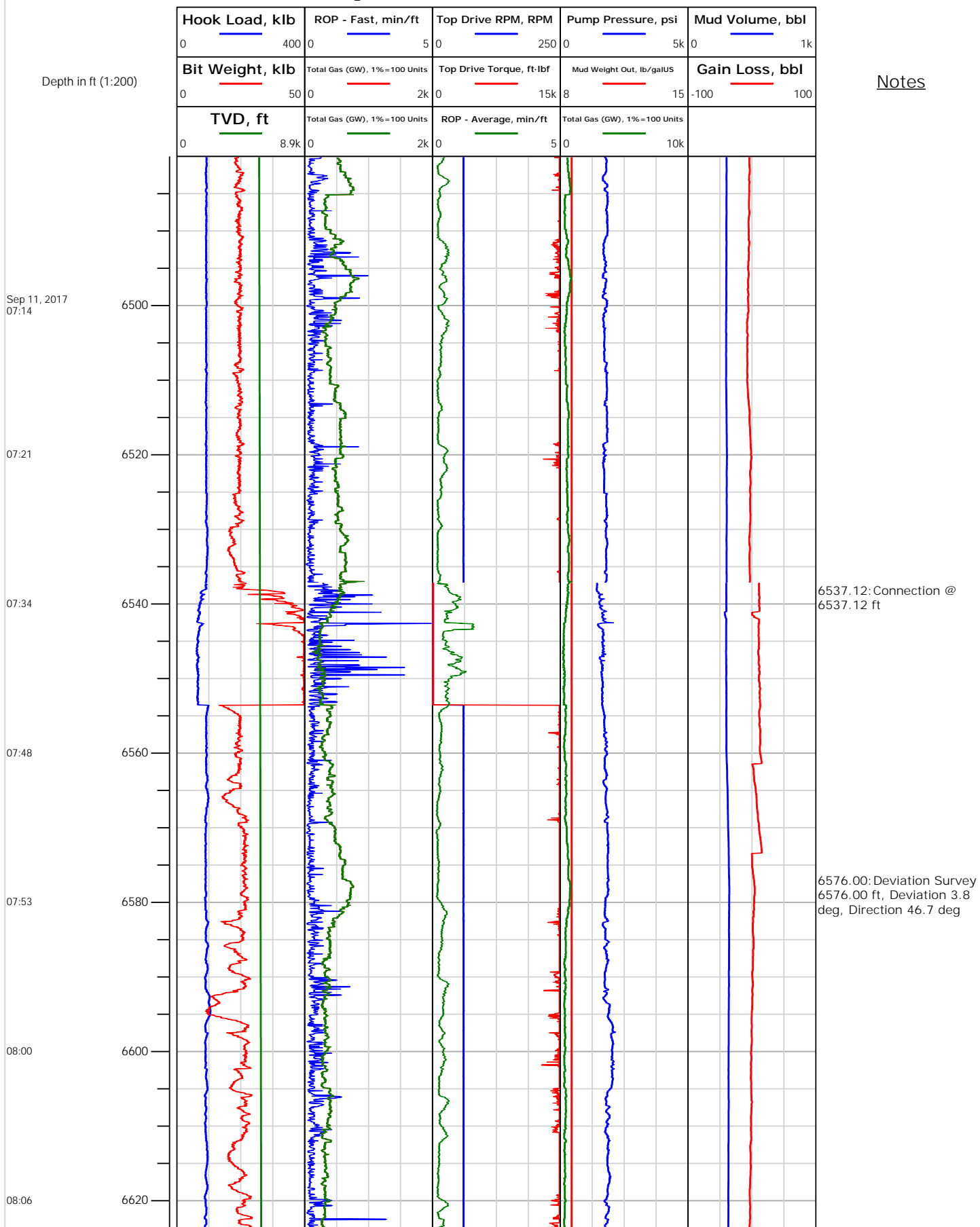
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**Well Name:** Bruton 19-04E  
**Rig:** 290

**Location:** SE/4 of NW/4

Notes





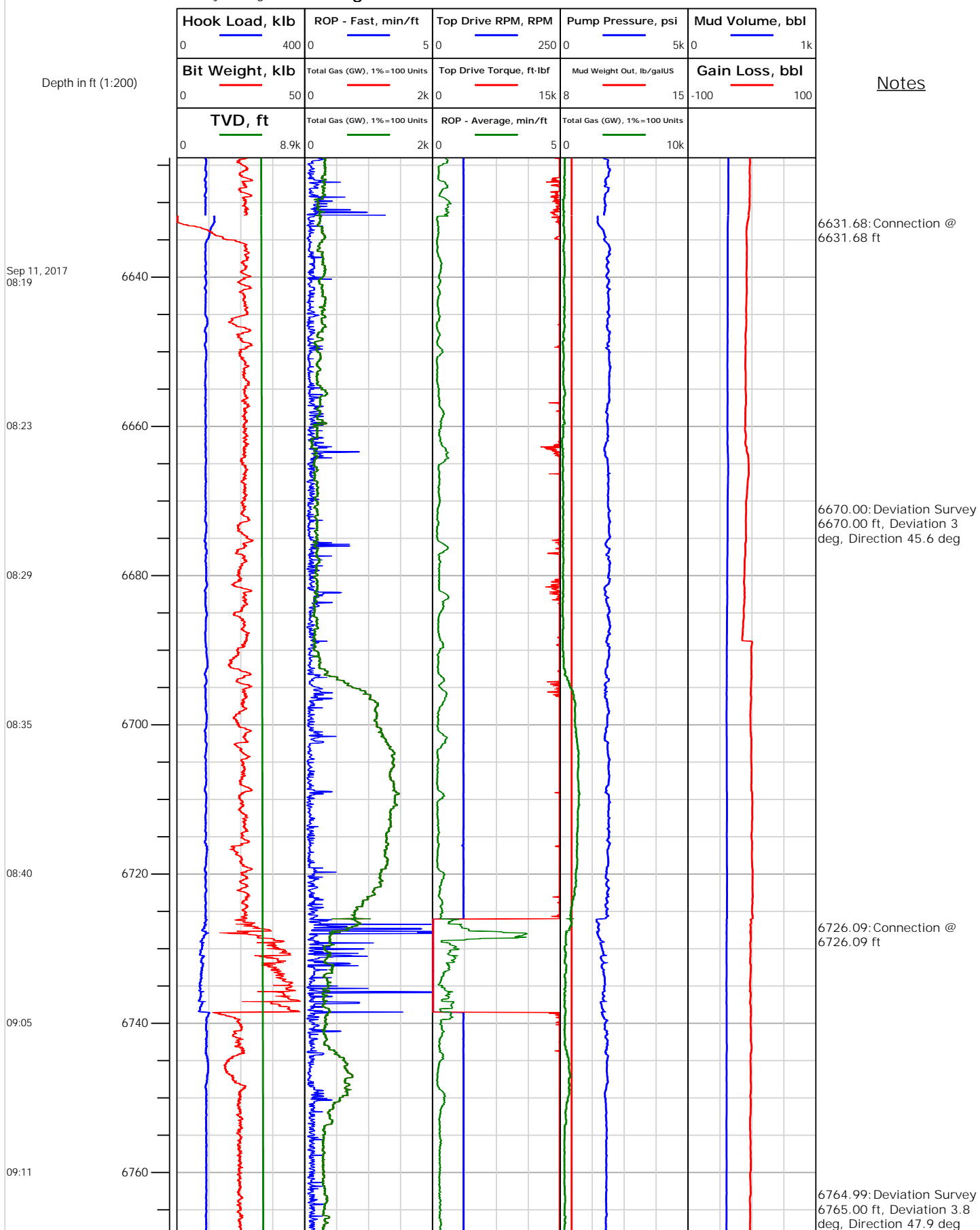
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**Well Name:** Bruton 19-04E  
**Rig:** 290

**Location:** SE/4 of NW/4

## Notes





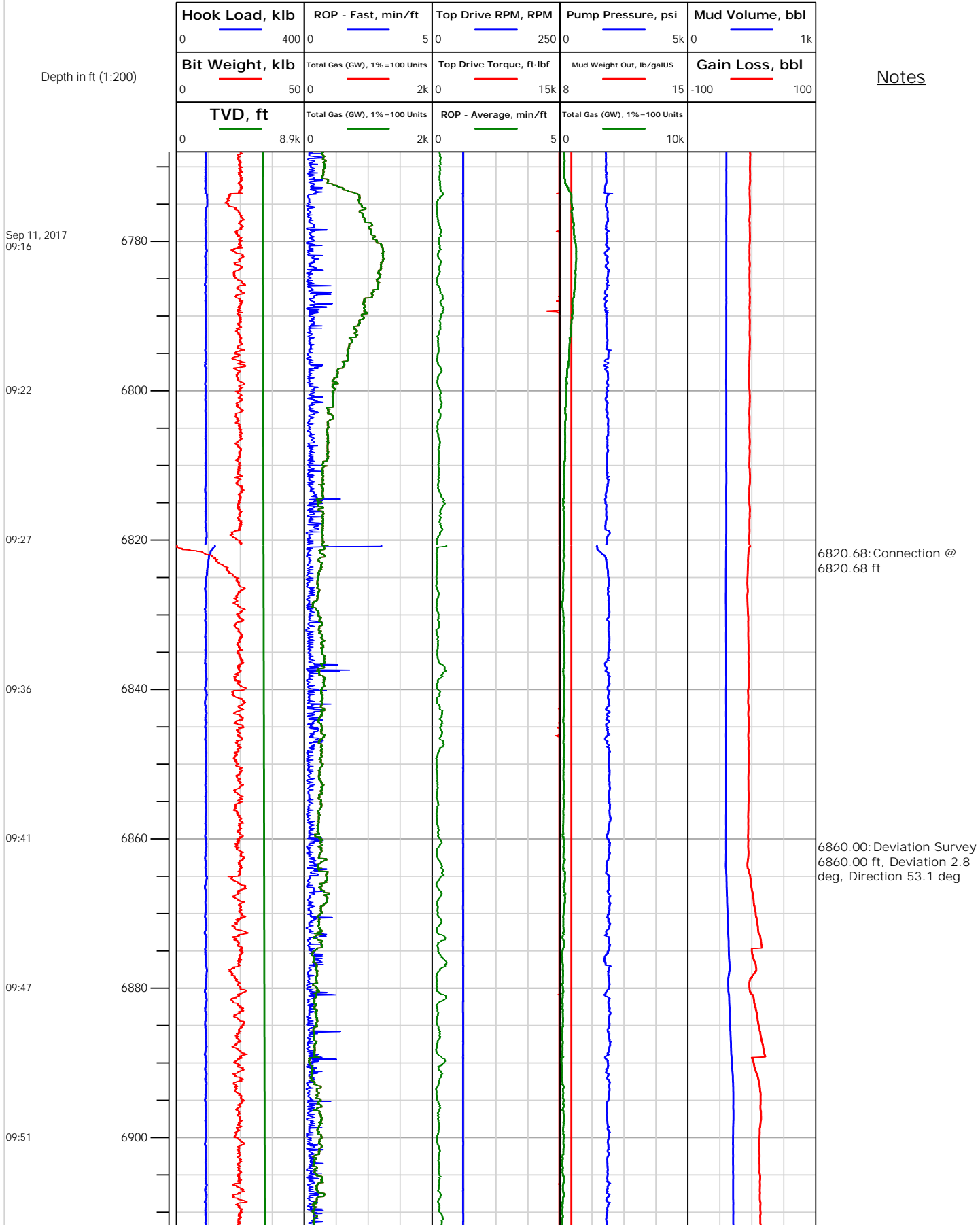
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**Operator:** Laramie Energy  
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**Well Name:** Bruton 19-04E  
**Rig:** 290

**Location:** SE/4 of NW/4

Notes





# Electronic Drilling Recorder

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

**Well Name:** Bruton 19-04E  
**Rig:** 290

**Location:** SE/4 of NW/4

## Notes

Depth in ft (1:200)

Sep 11, 2017  
10:16

10:39

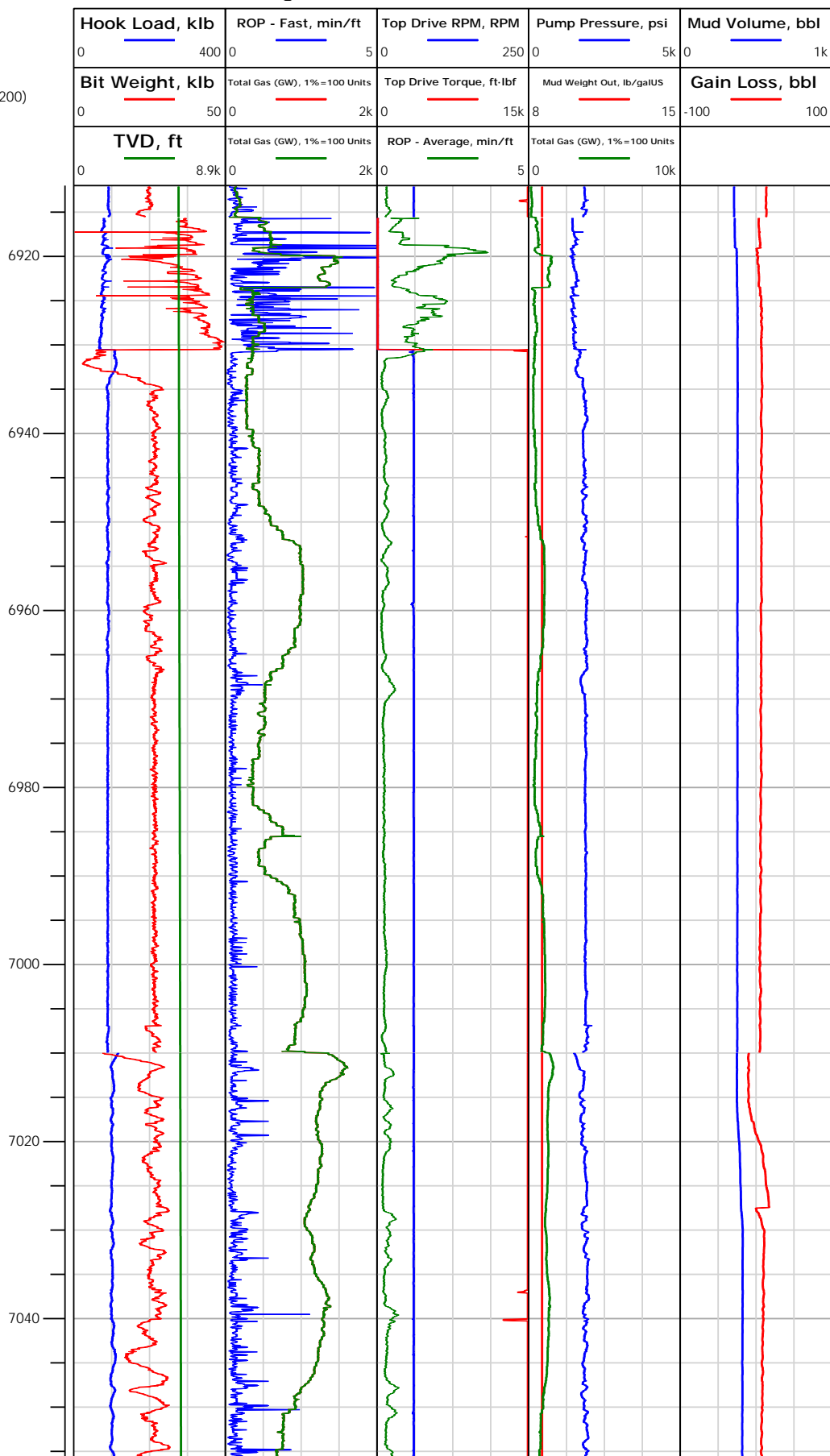
10:44

10:49

10:54

11:04

11:10





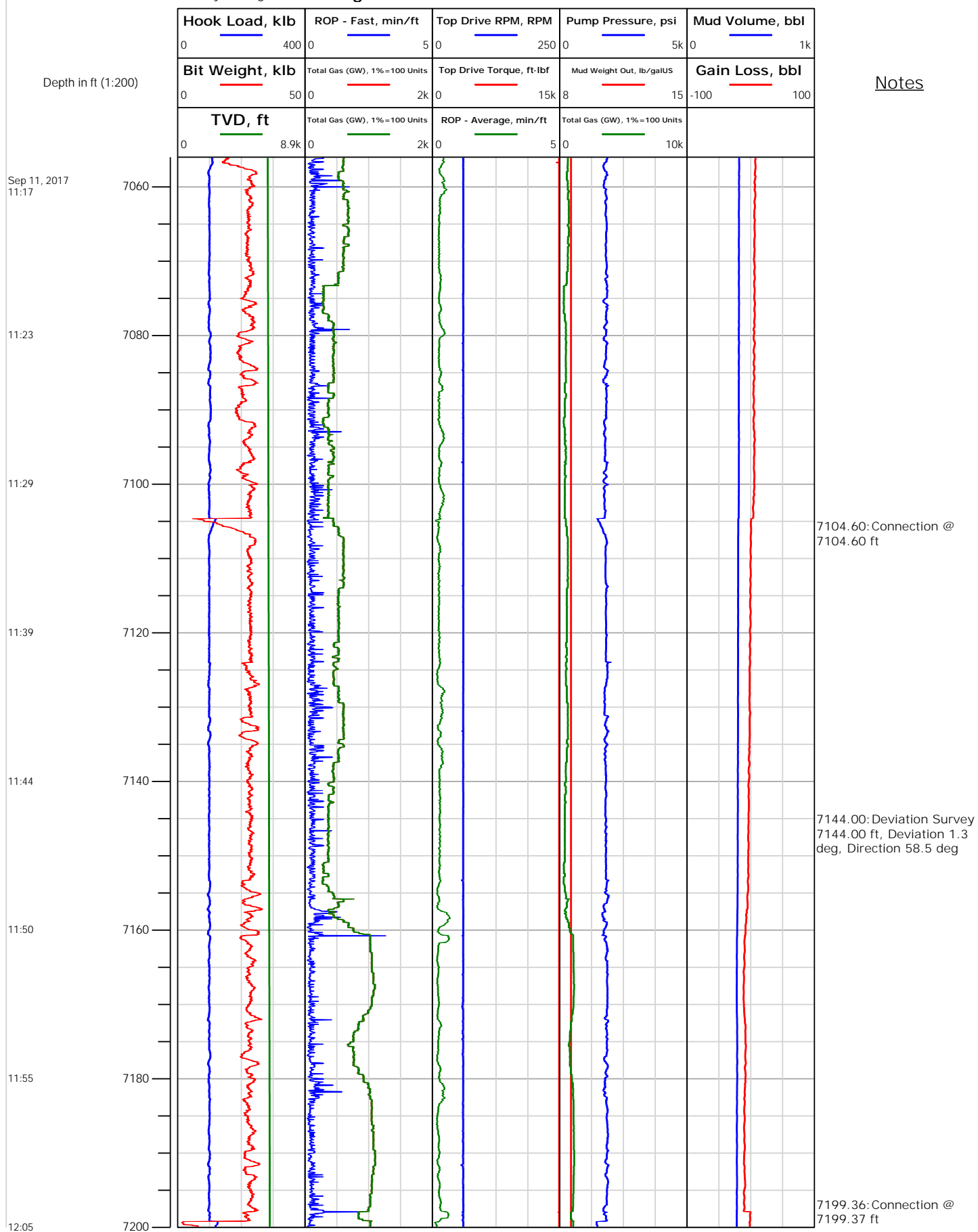
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Operator: Laramie Energy  
Contractor: Helmerich & Payne Drlg Co

Well Name: Bruton 19-04E  
Rig: 290

Location: SE/4 of NW/4

Notes







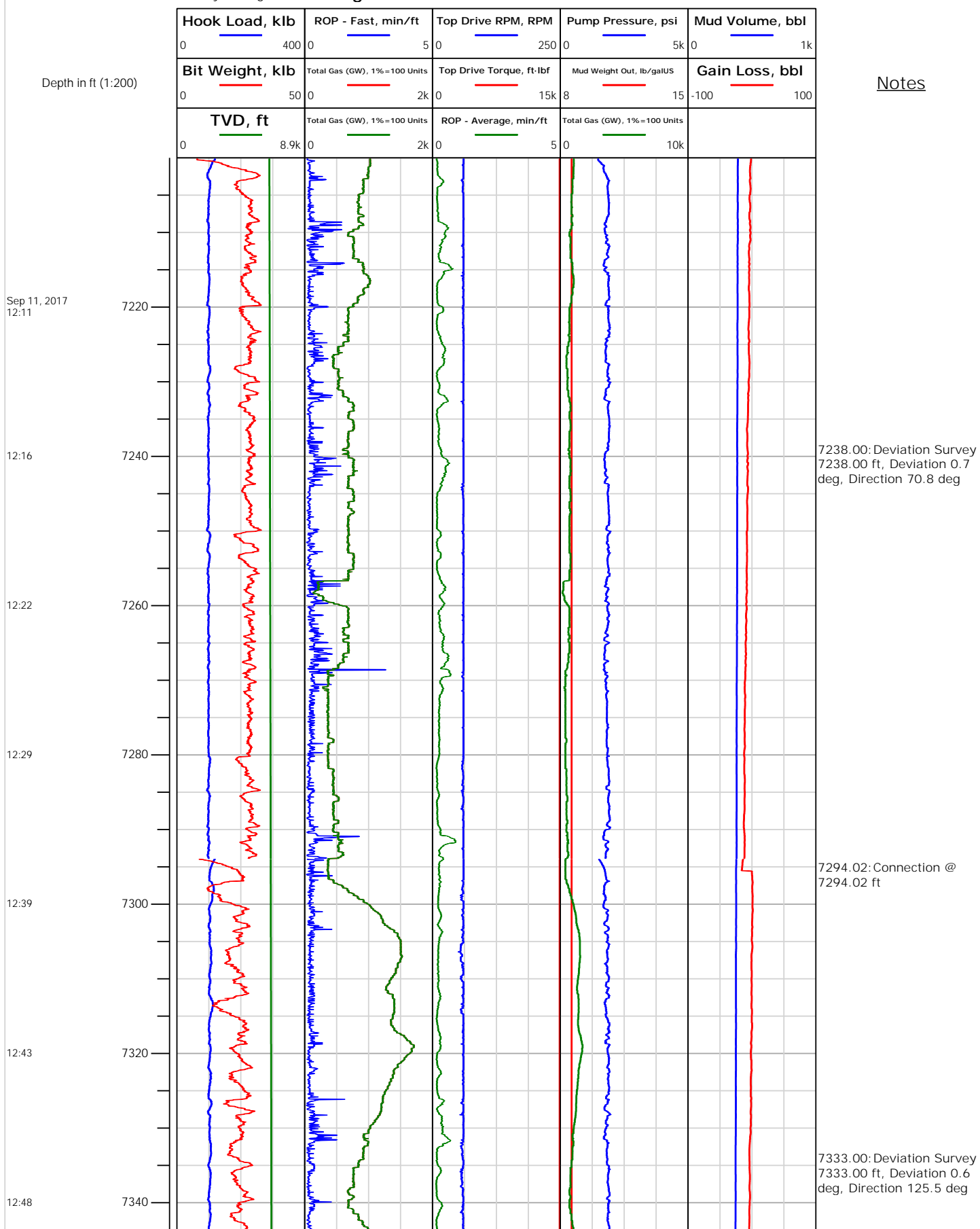
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**Rig:** 290

**Location:** SE/4 of NW/4

Notes





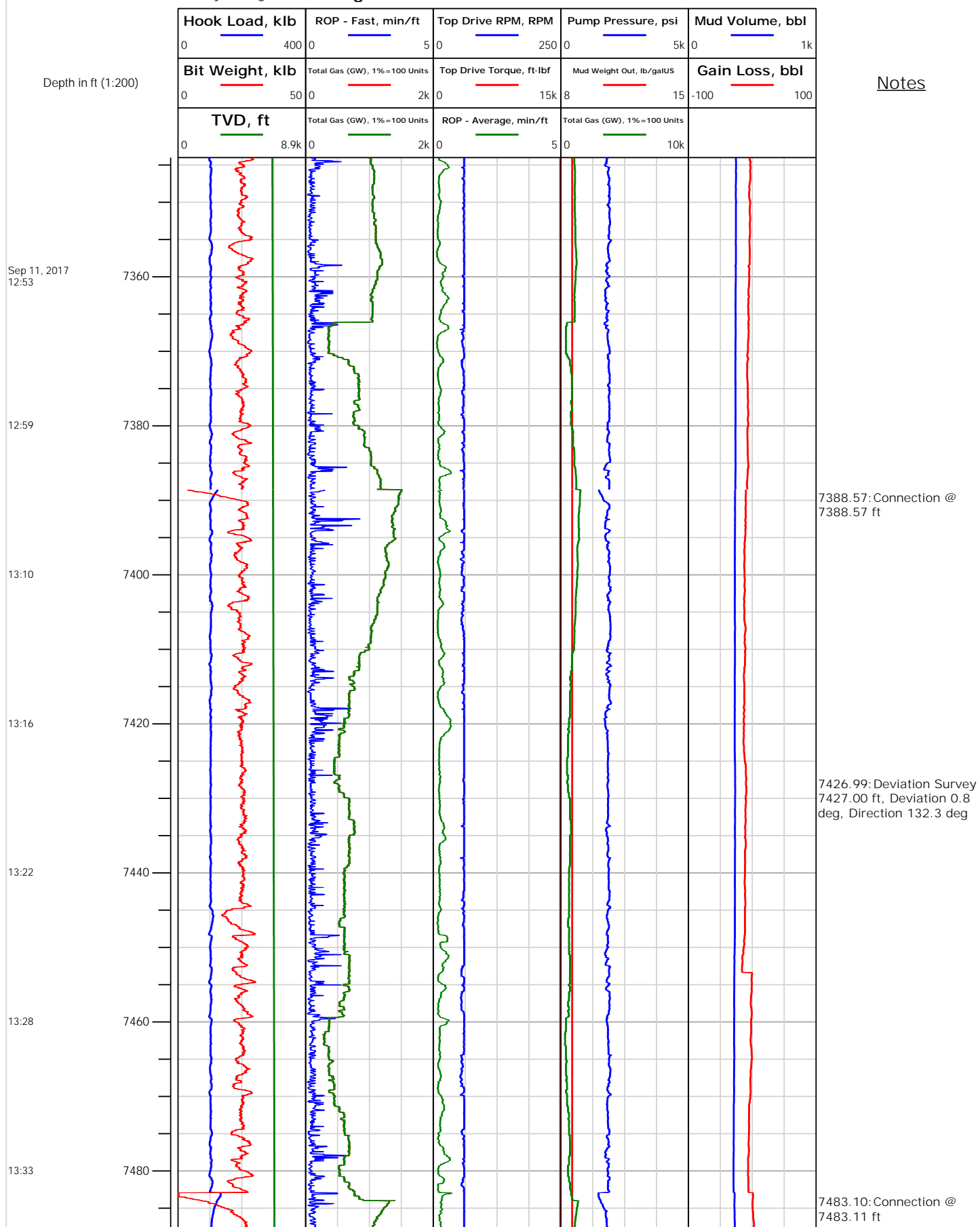
## Electronic Drilling Recorder

Operator: Laramie Energy  
Contractor: Helmerich & Payne Drlg Co

Well Name: Bruton 19-04E  
Rig: 290

Location: SE/4 of NW/4

Notes





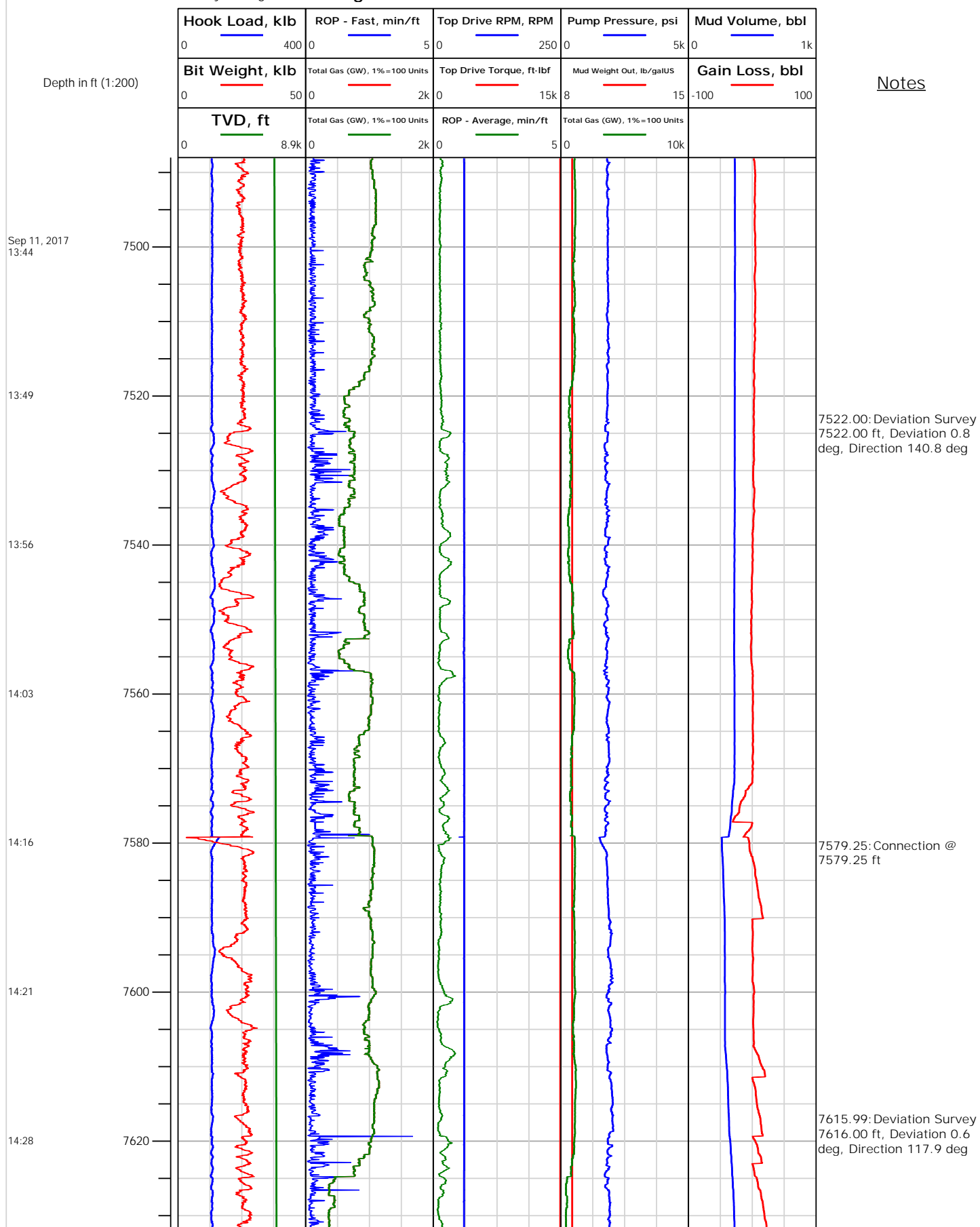
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Well Name: Bruton 19-04E  
Rig: 290

Location: SE/4 of NW/4

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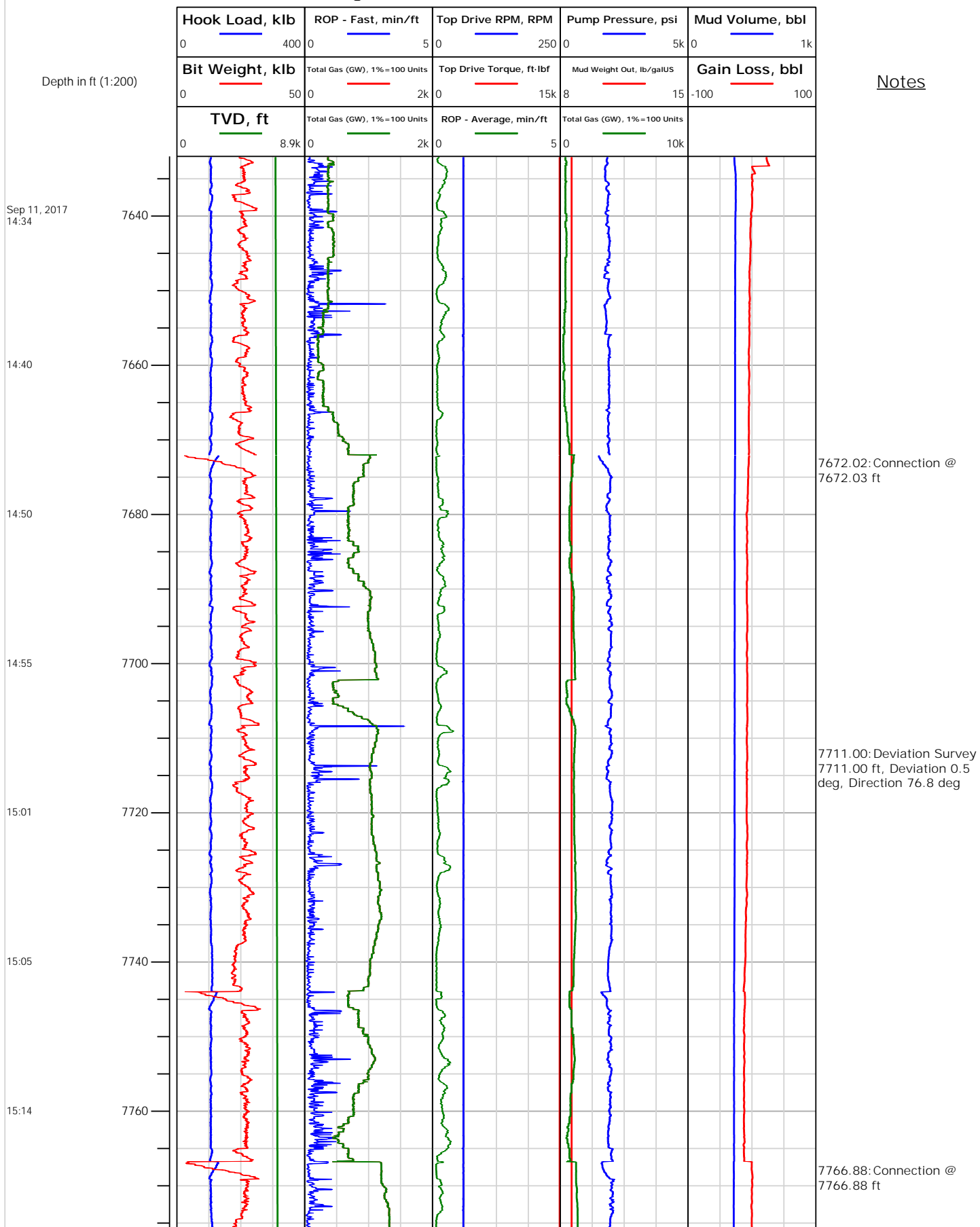
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Location: SE/4 of NW/4

## Notes





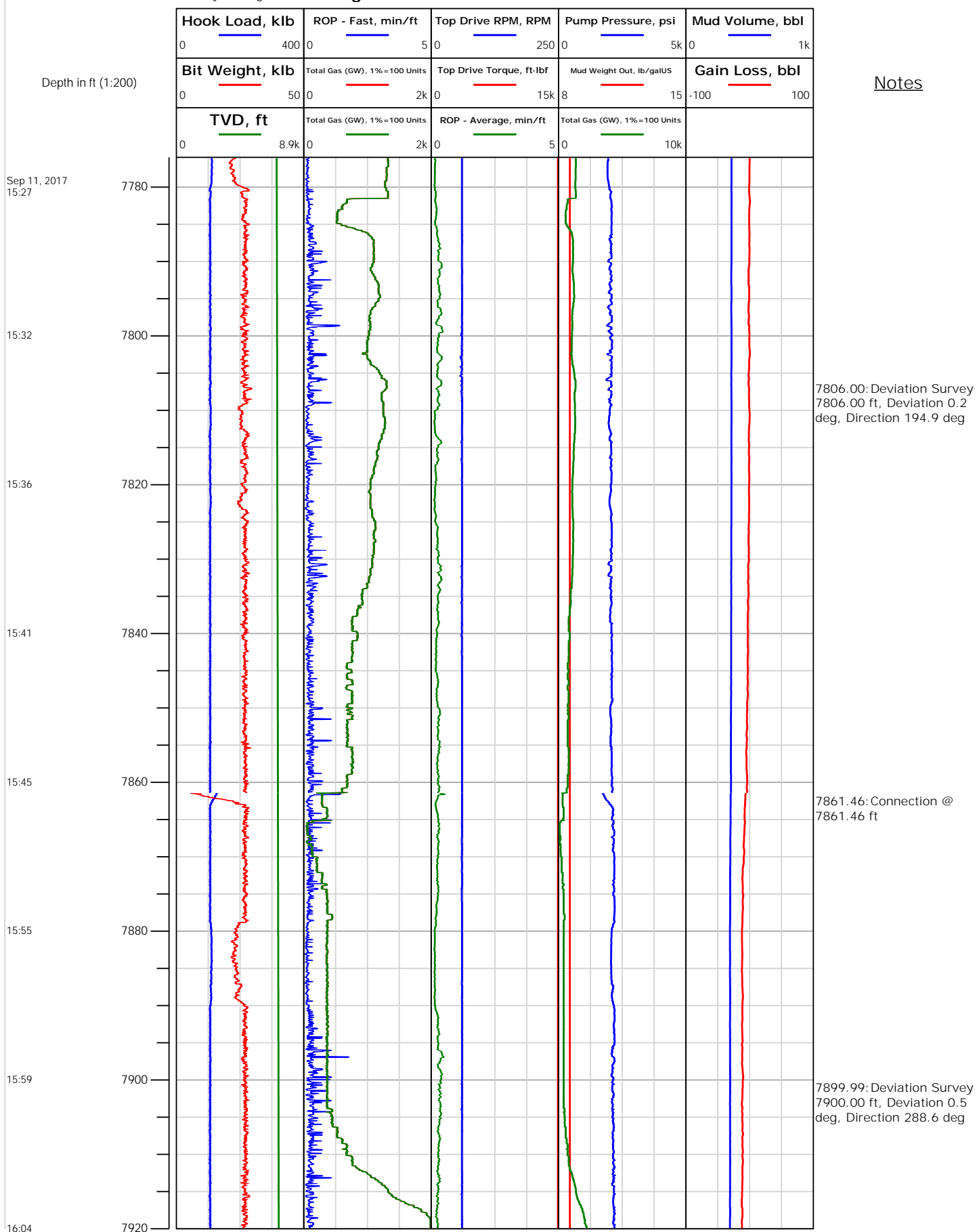
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**Rig:** 290

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Notes





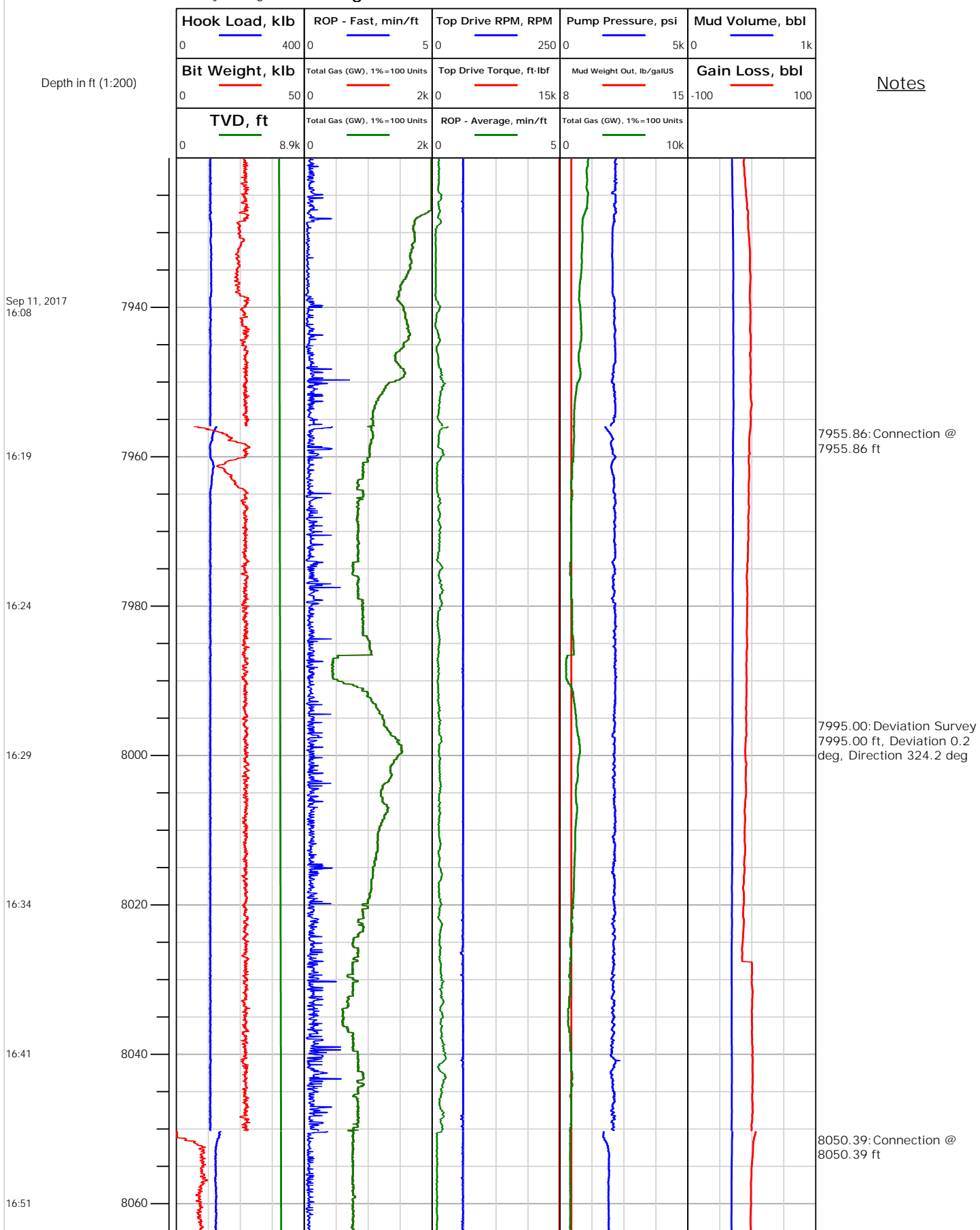
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**Rig:** 290

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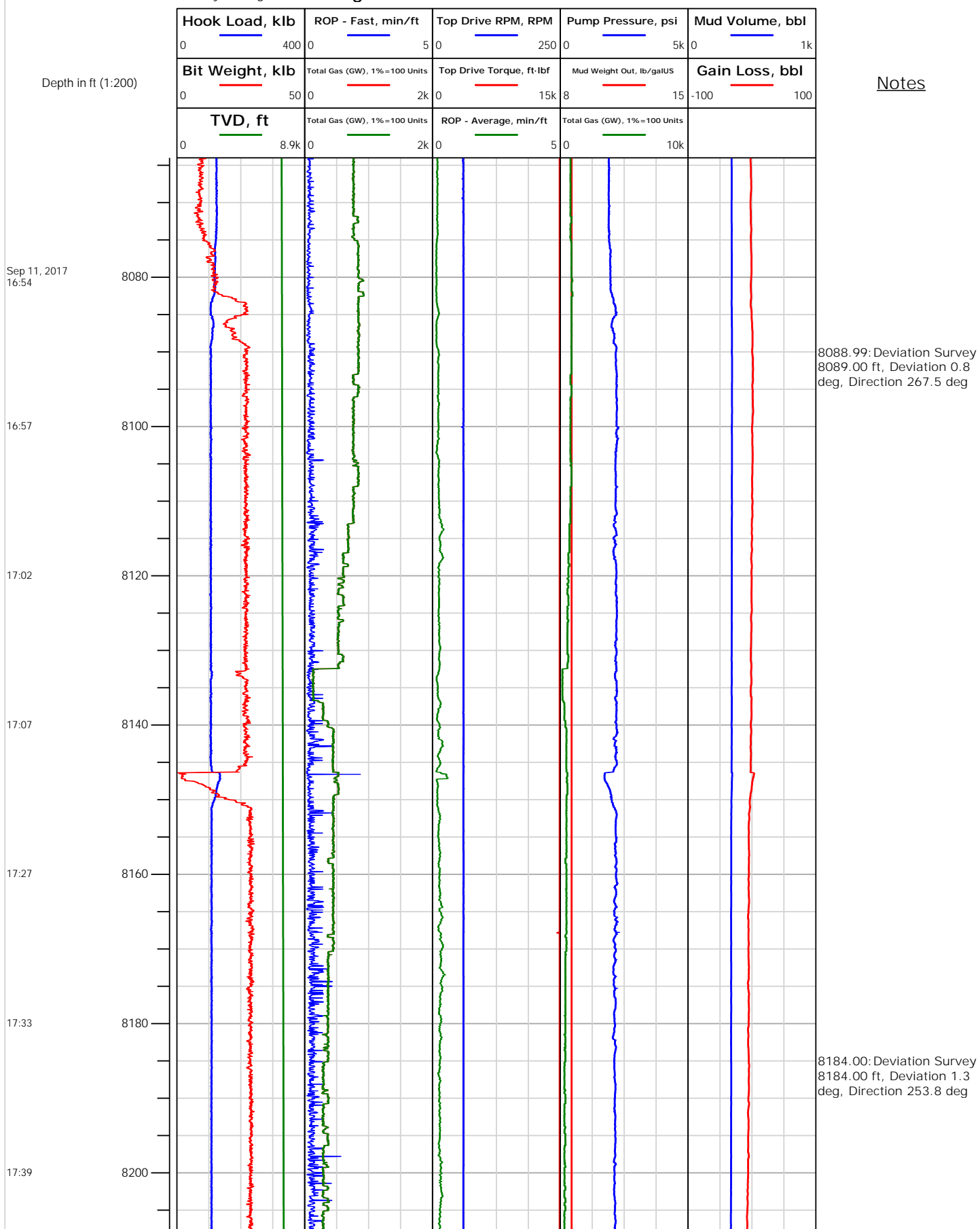
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## Notes





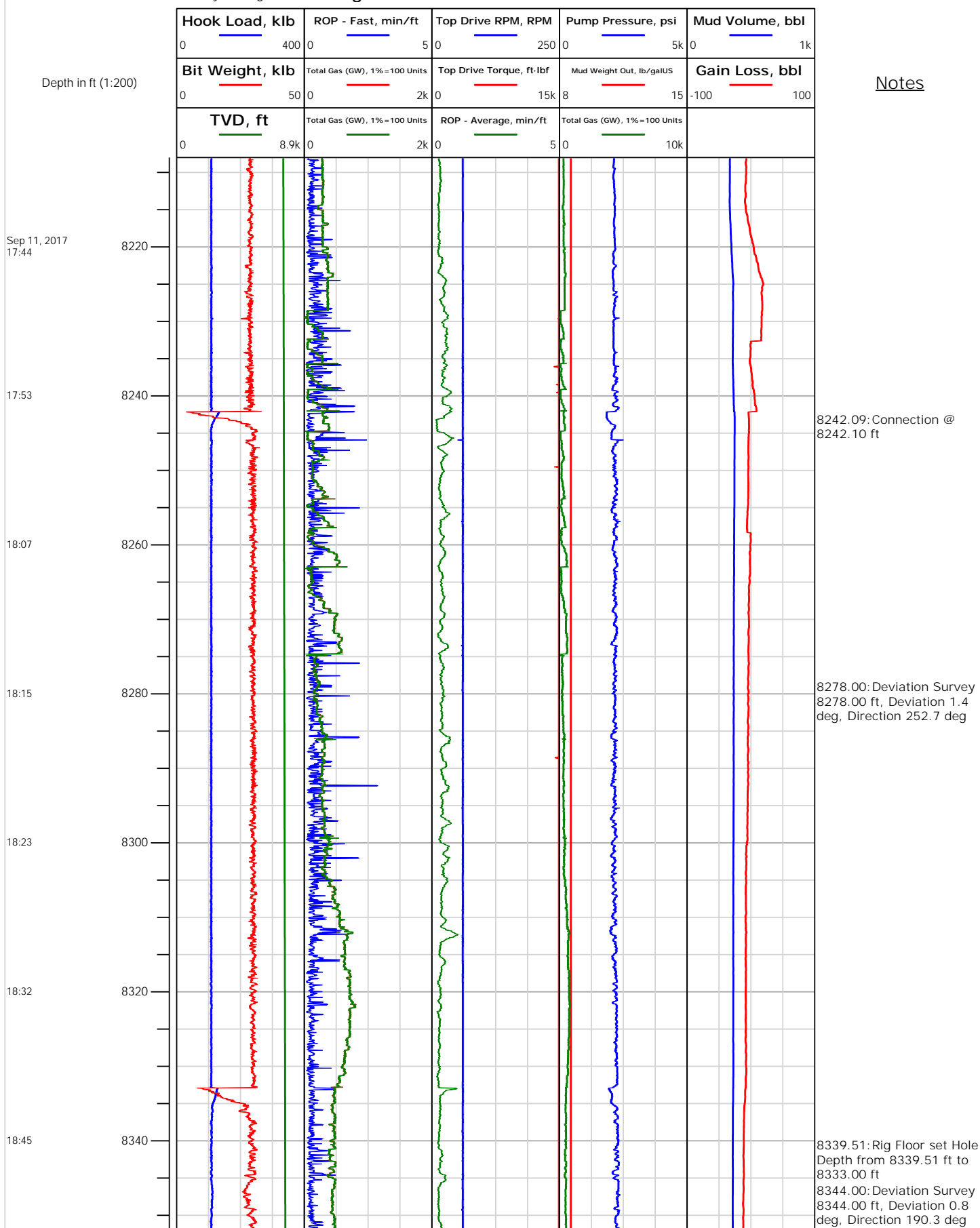
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**Rig:** 290

**Location:** SE/4 of NW/4

Depth in ft (1:200)

Notes

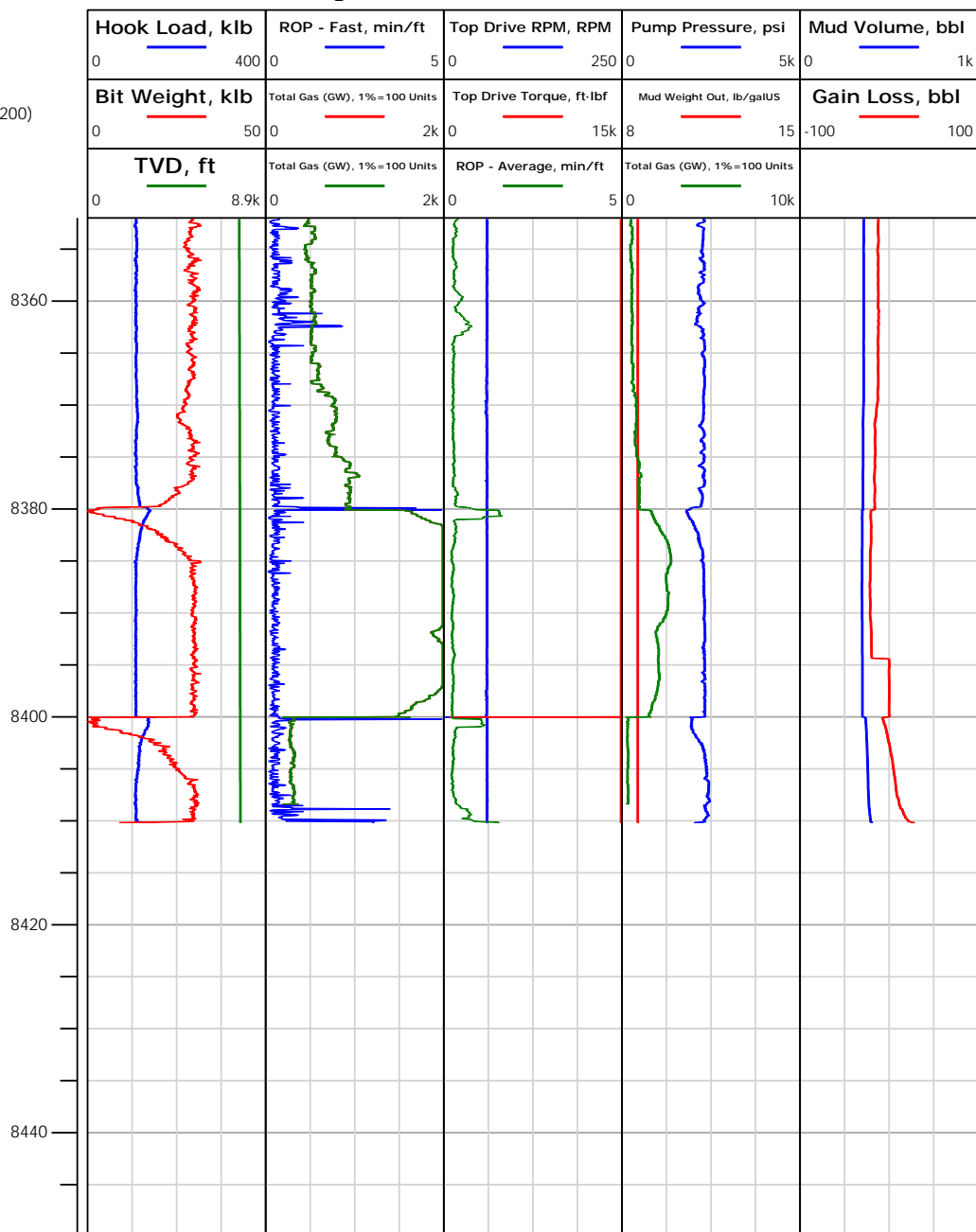
Sep 11, 2017  
18:51

18:58

19:06

Sep 12, 2017  
06:57

06:57



8400.11: Rig Floor set Bit  
 Position from 6685.95 ft to  
 6631.00 ft  
 8400.11: Rig Floor set Bit  
 Position from 8260.09 ft to  
 8333.75 ft  
 8400.11: Rig Floor set Bit  
 Position from 2885.81 ft to  
 2754.00 ft