



# Electronic Drilling Recorder

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

**Well Name:** GUNDERSON 0994-13-16E  
**Rig:** 522

**Location:**

Depth in ft (1:200)

Notes

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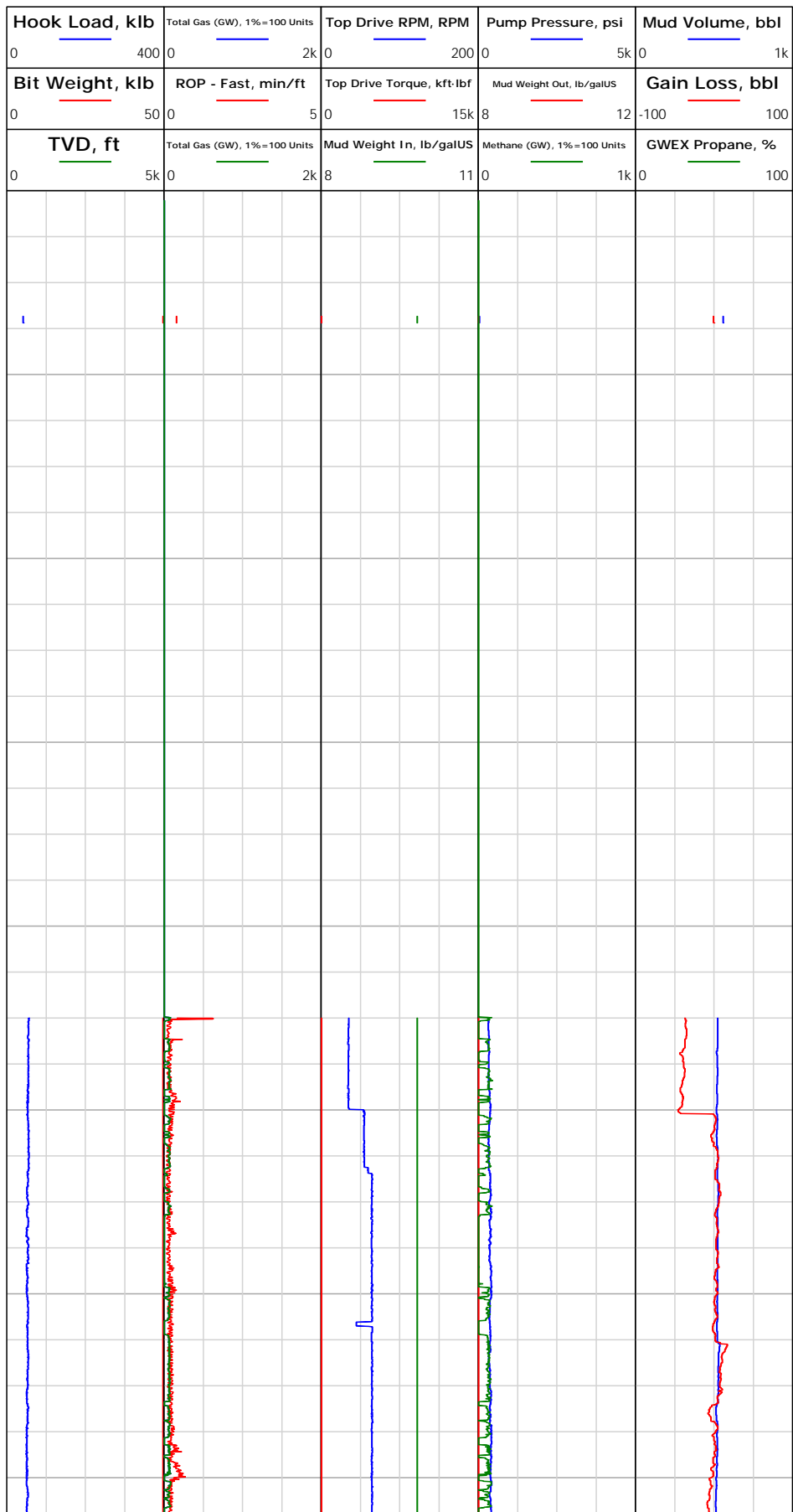
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Apr 15, 2018  
08:20

08:23

08:28



0.00: Rig Floor set Bit  
Position from 0.00 ft to  
7126.10 ft  
0.00: Deviation Survey  
0.00 ft, Deviation 0 deg,  
Direction 0 deg  
  
14.39: Rig Floor set Bit  
Position from 12.04 ft to  
90.00 ft  
14.39: Rig Floor set Hole  
Depth from 12.04 ft to  
90.00 ft

90.00: Rig Floor set Bit  
Position from 90.00 ft to  
0.00 ft



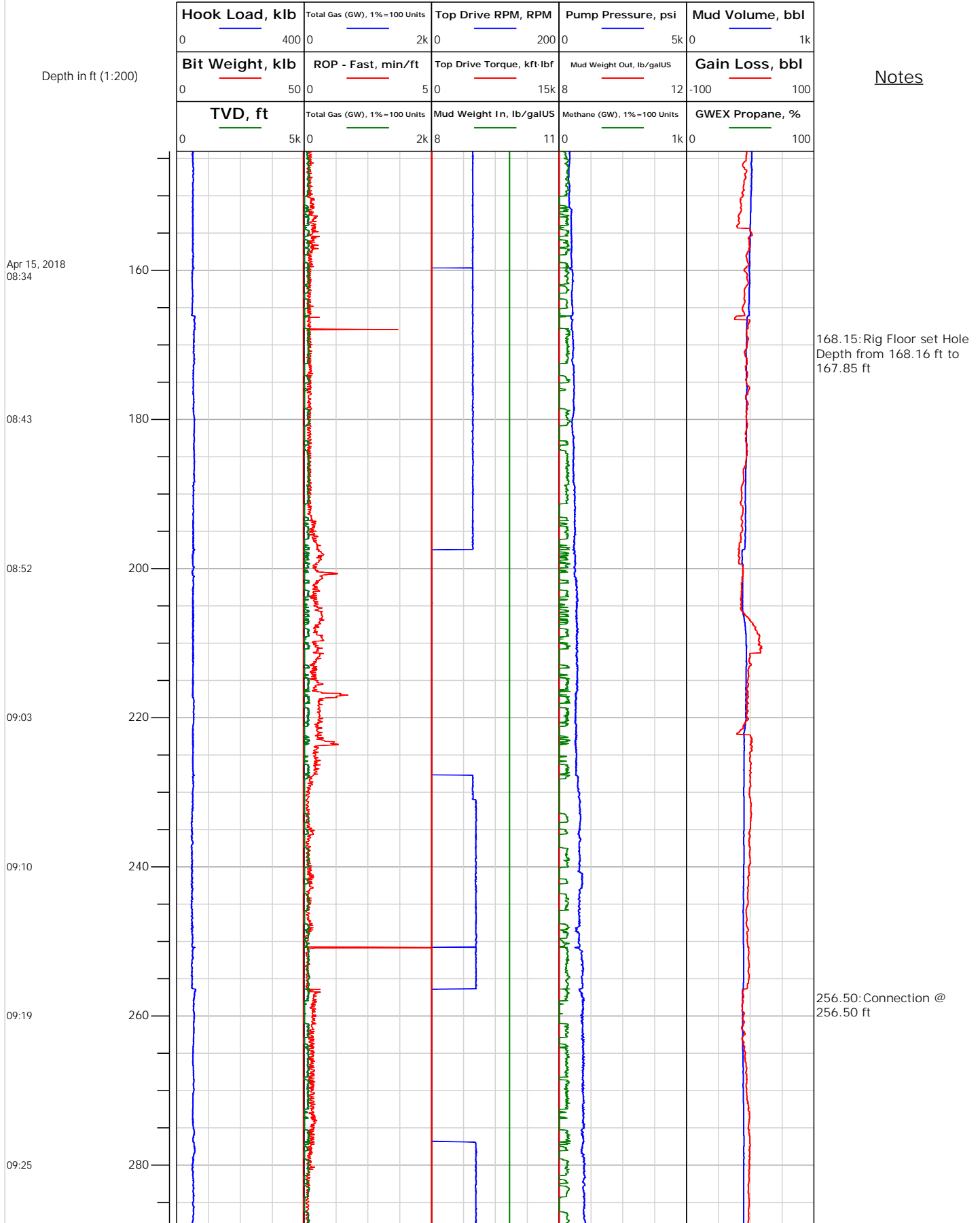
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**Rig:** 522

**Location:**

Notes







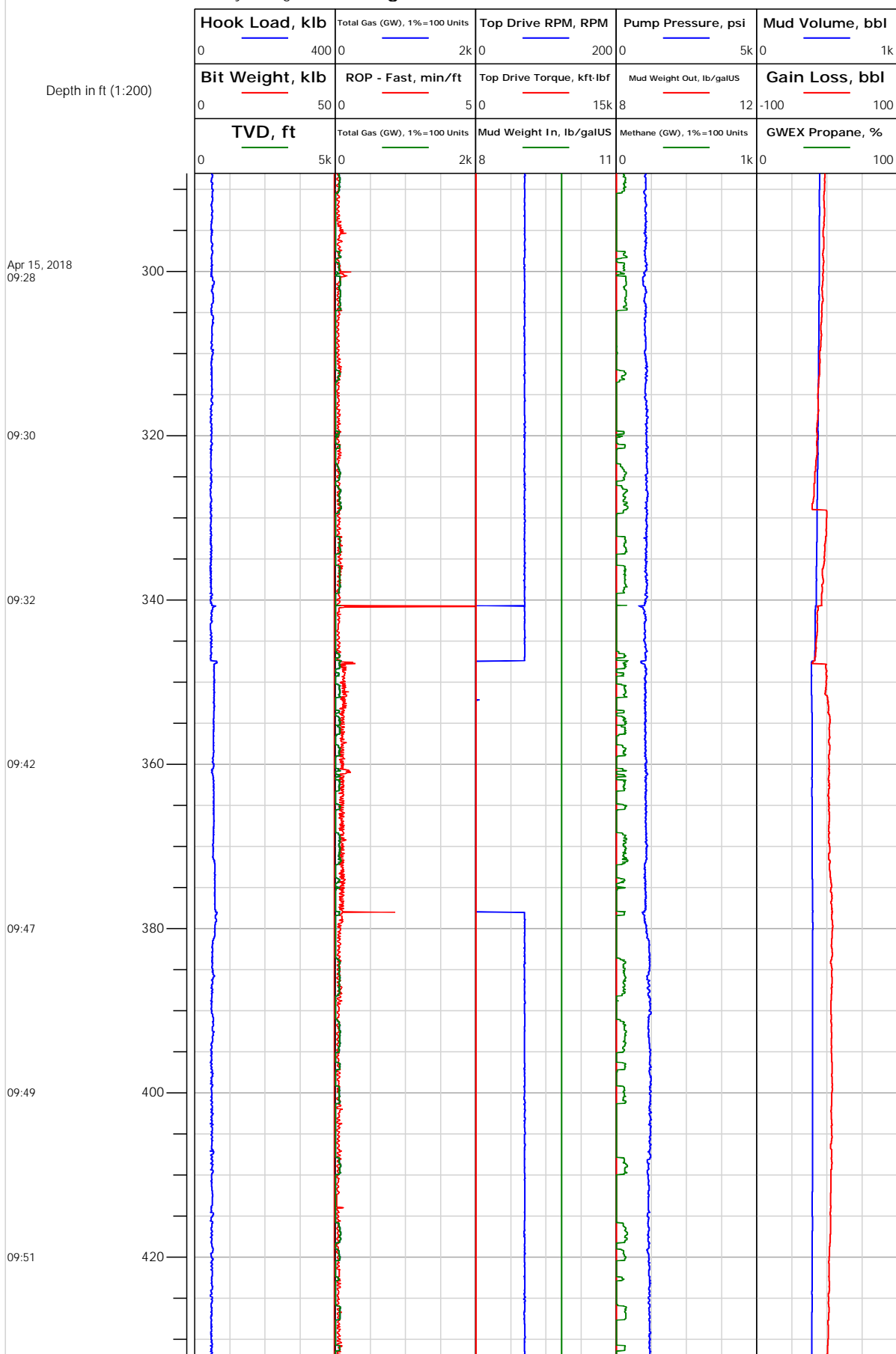
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**Rig:** 522

**Location:**

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Operator: Laramie Energy  
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Well Name: GUNDERSON 0994-13-16E  
Rig: 522

Location:

## Notes

Depth in ft (1:200)

Apr 15, 2018  
09:59

10:02

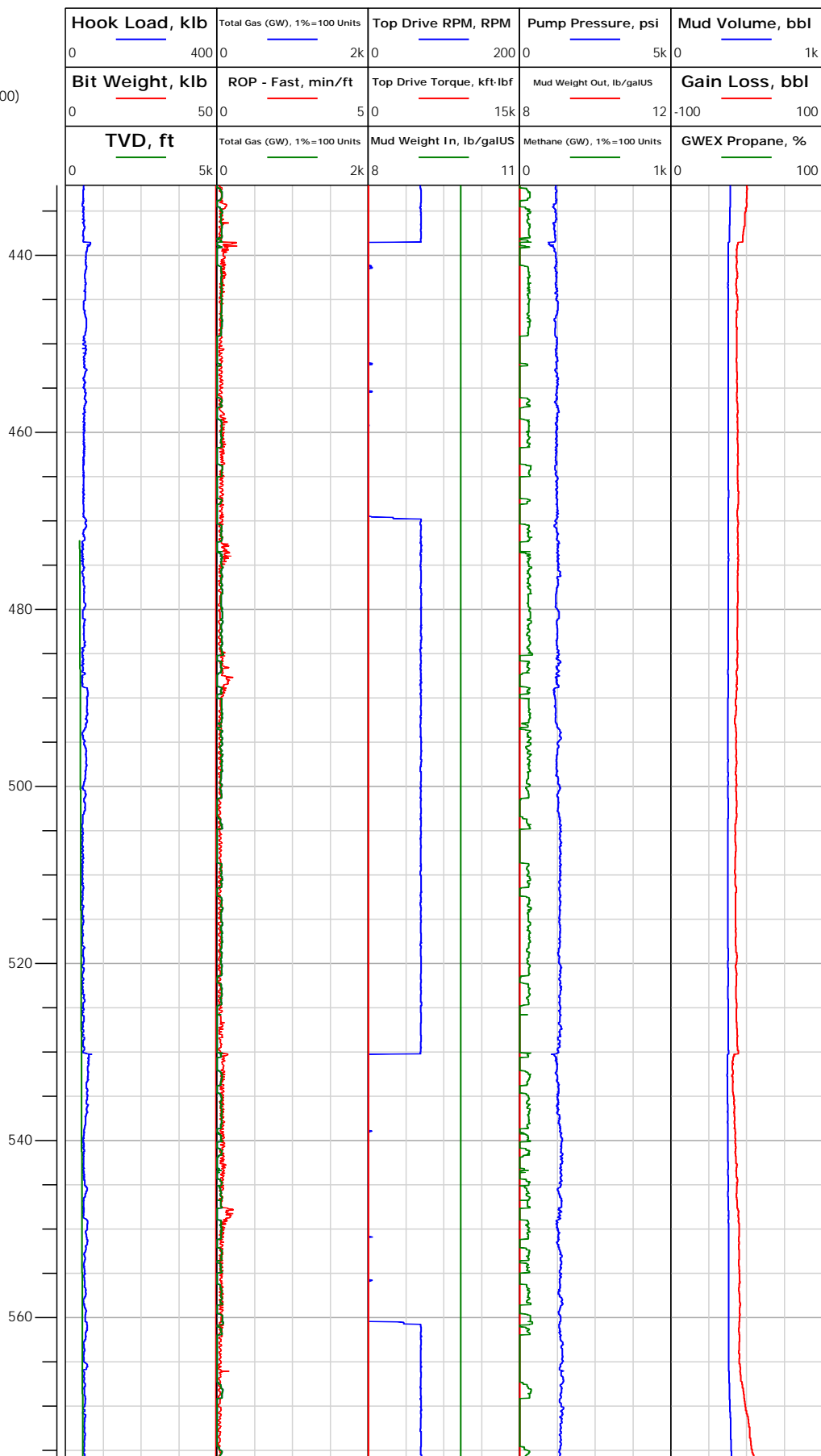
10:06

10:08

10:10

10:18

10:21





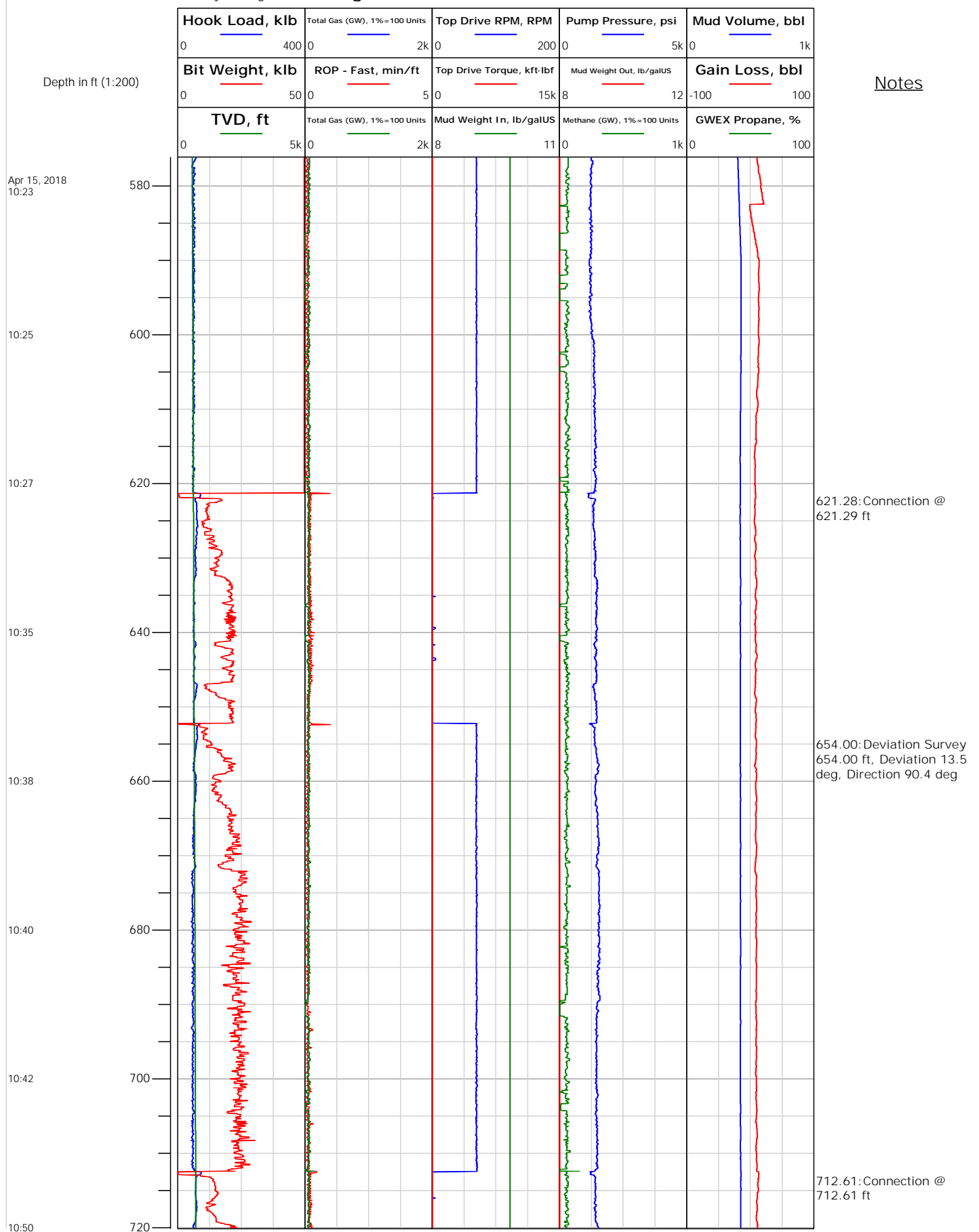
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Rig: 522

Location:

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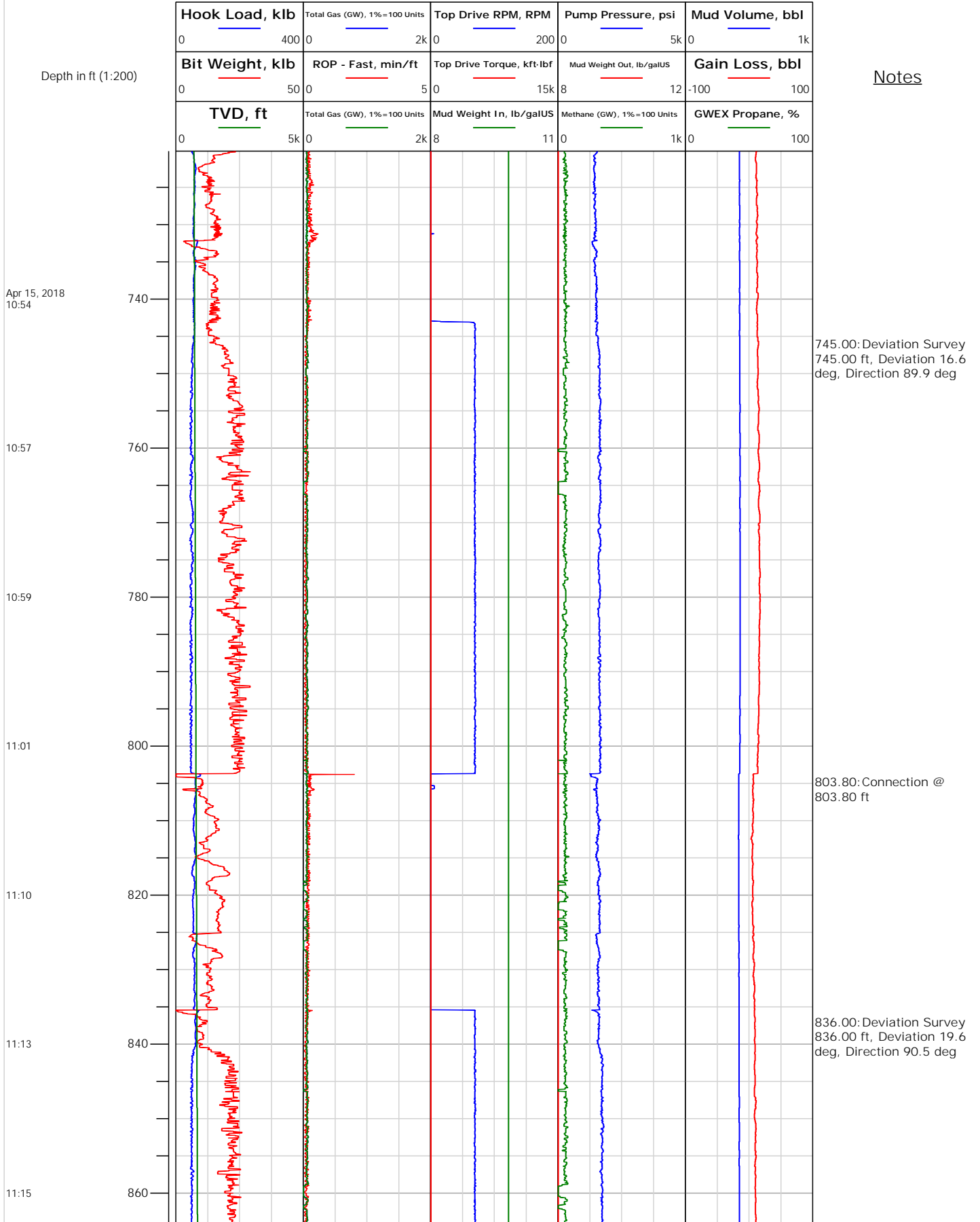
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**Well Name:** GUNDERSON 0994-13-16E  
**Rig:** 522

**Location:**

## Notes





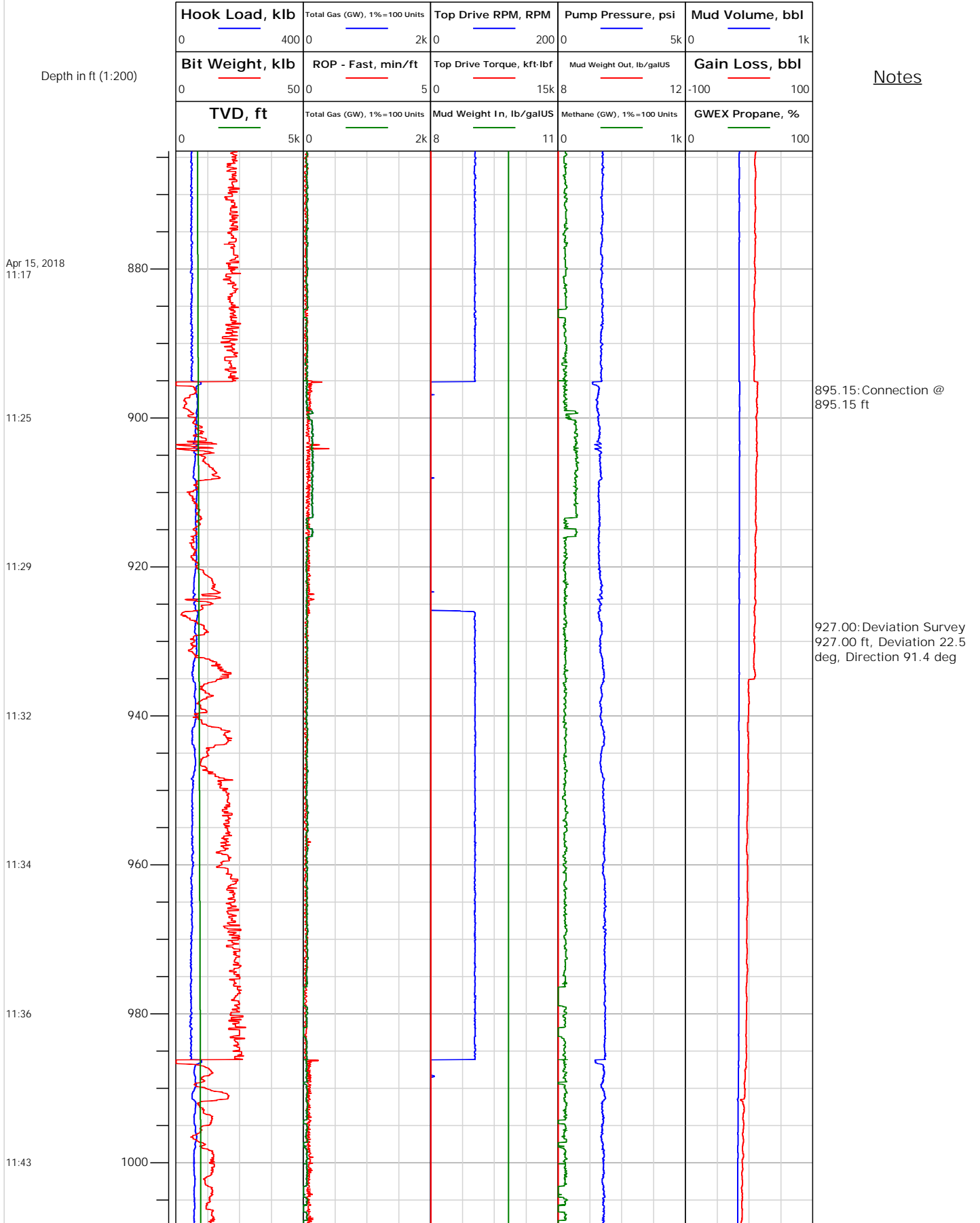
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**Rig:** 522

**Location:**

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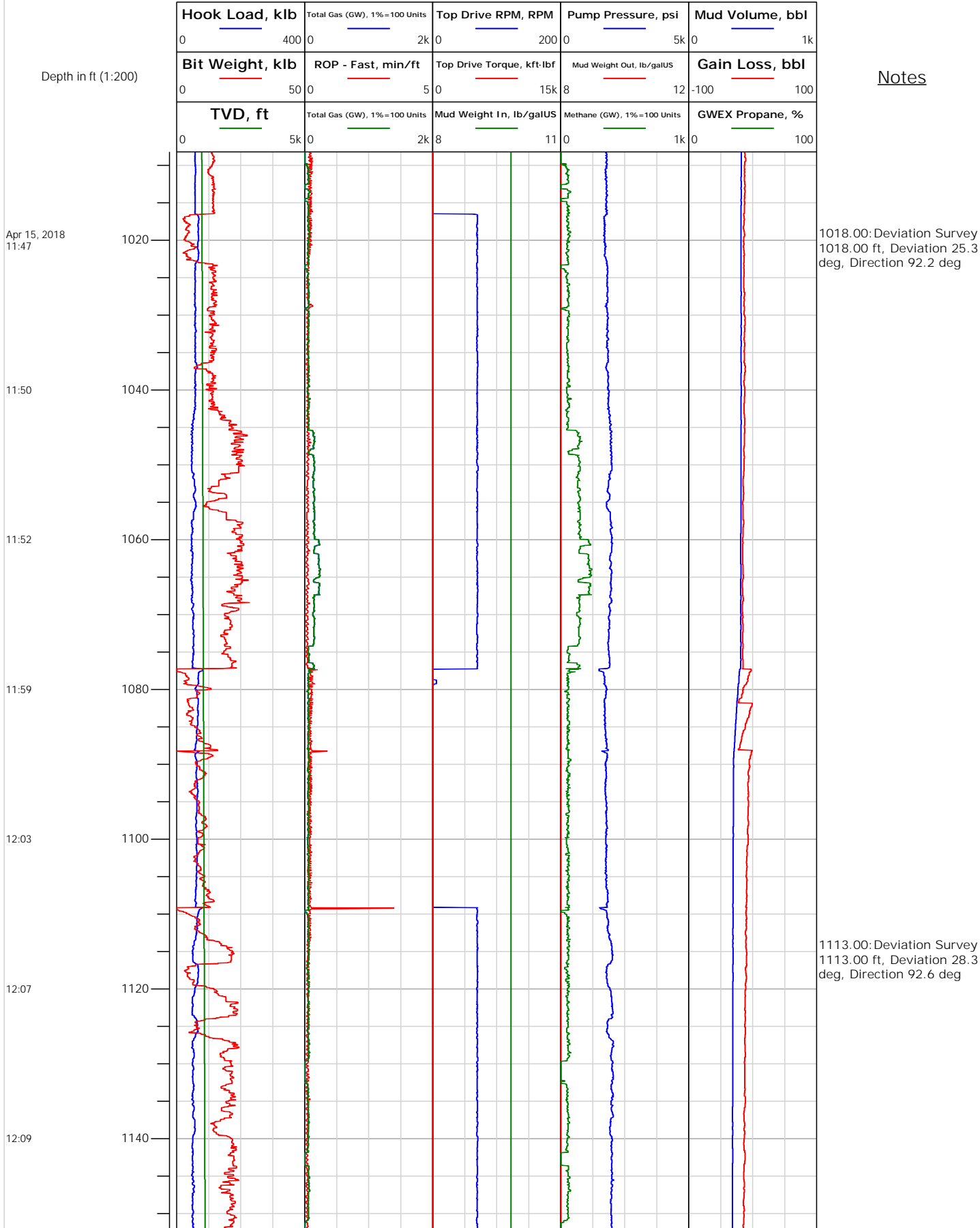
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**Rig:** 522

**Location:**

## Notes





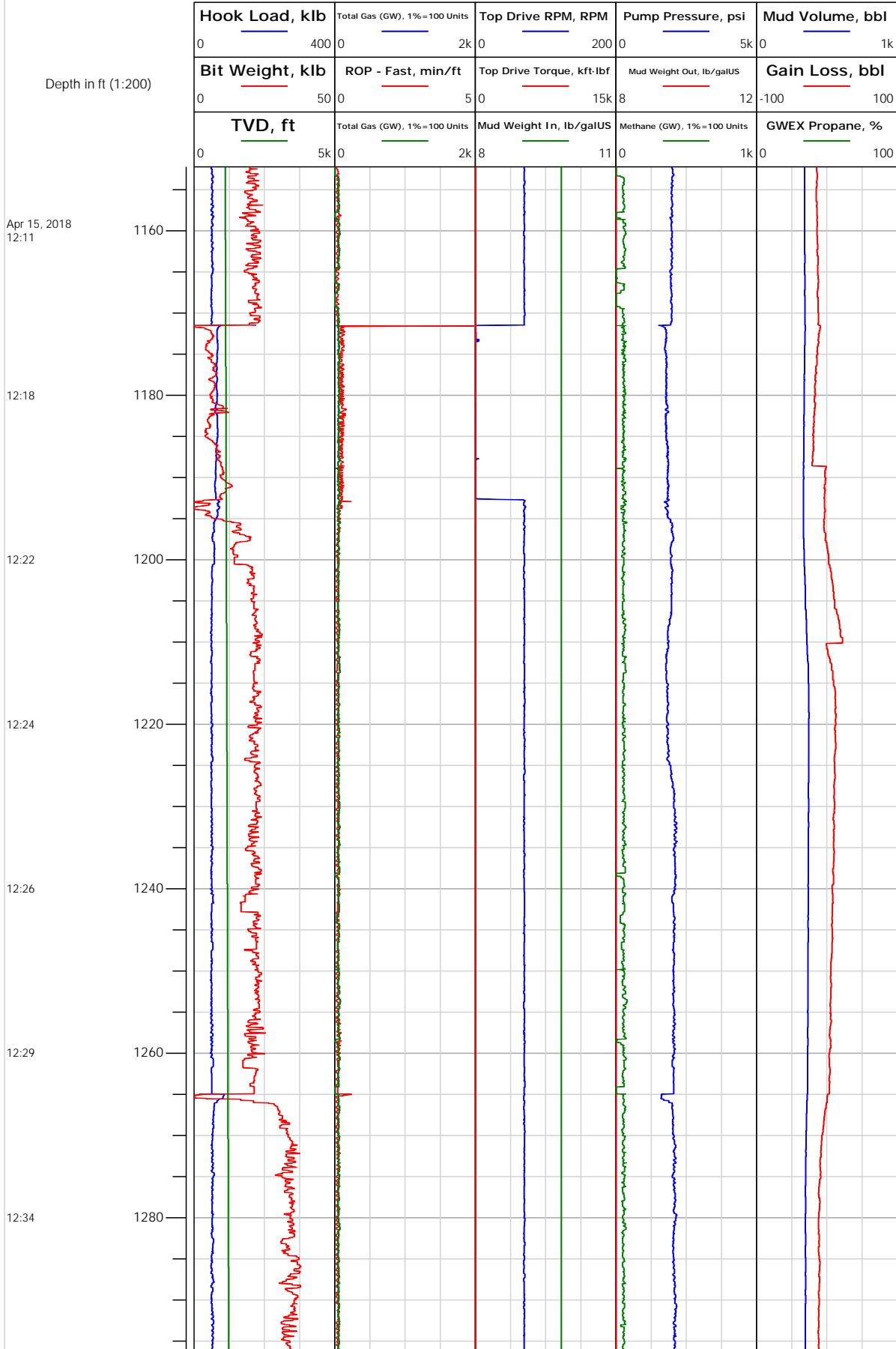
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**Rig:** 522

**Location:**

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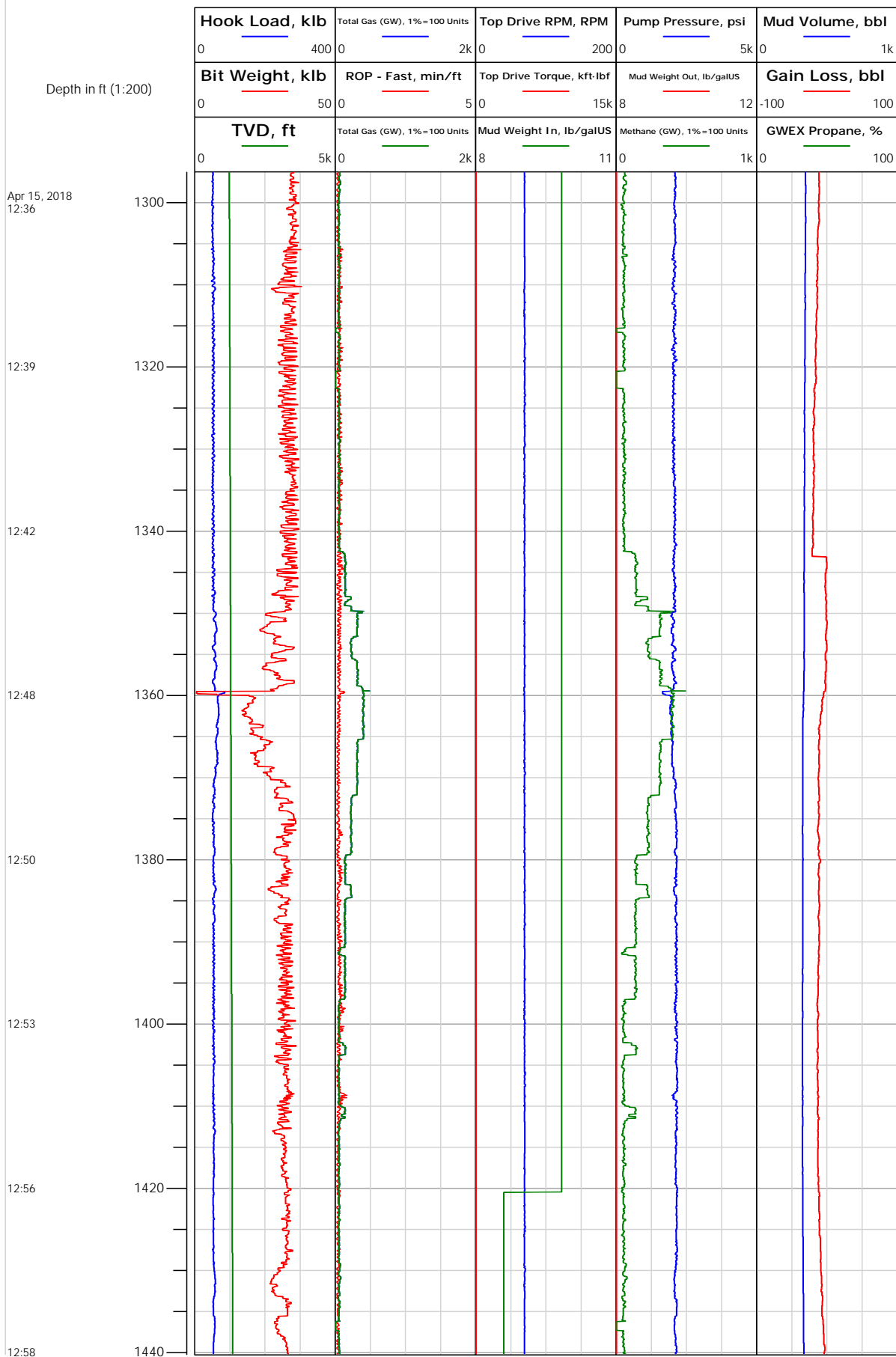


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**Operator:** Laramie Energy  
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**Well Name:** GUNDERSON 0994-13-16E  
**Rig:** 522

**Location:**



Notes

1301.00: Deviation Survey  
 1301.00 ft, Deviation 30.9 deg, Direction 91 deg

1395.00: Deviation Survey  
 1395.00 ft, Deviation 31.5 deg, Direction 90.1 deg





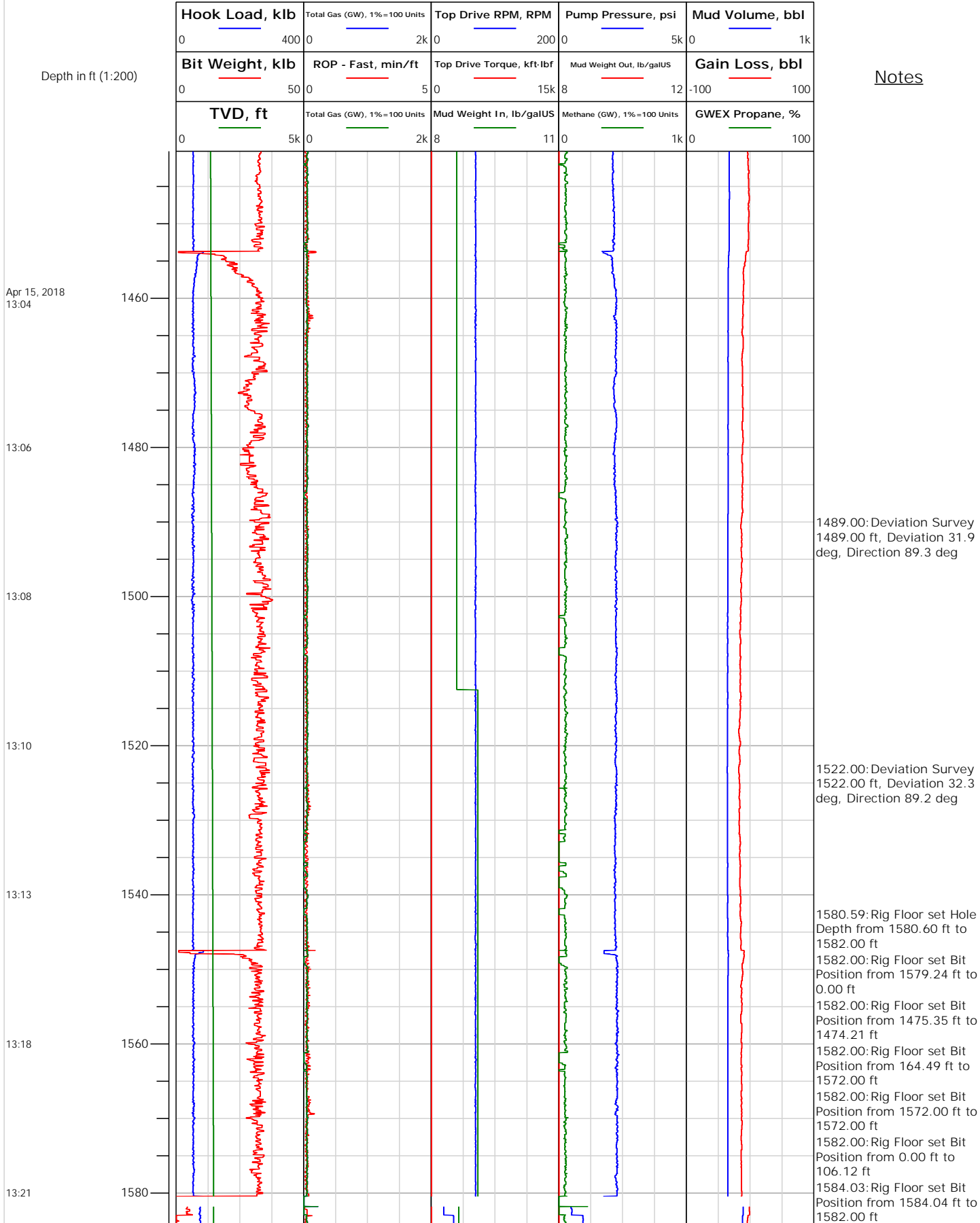
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Rig: 522

Location:

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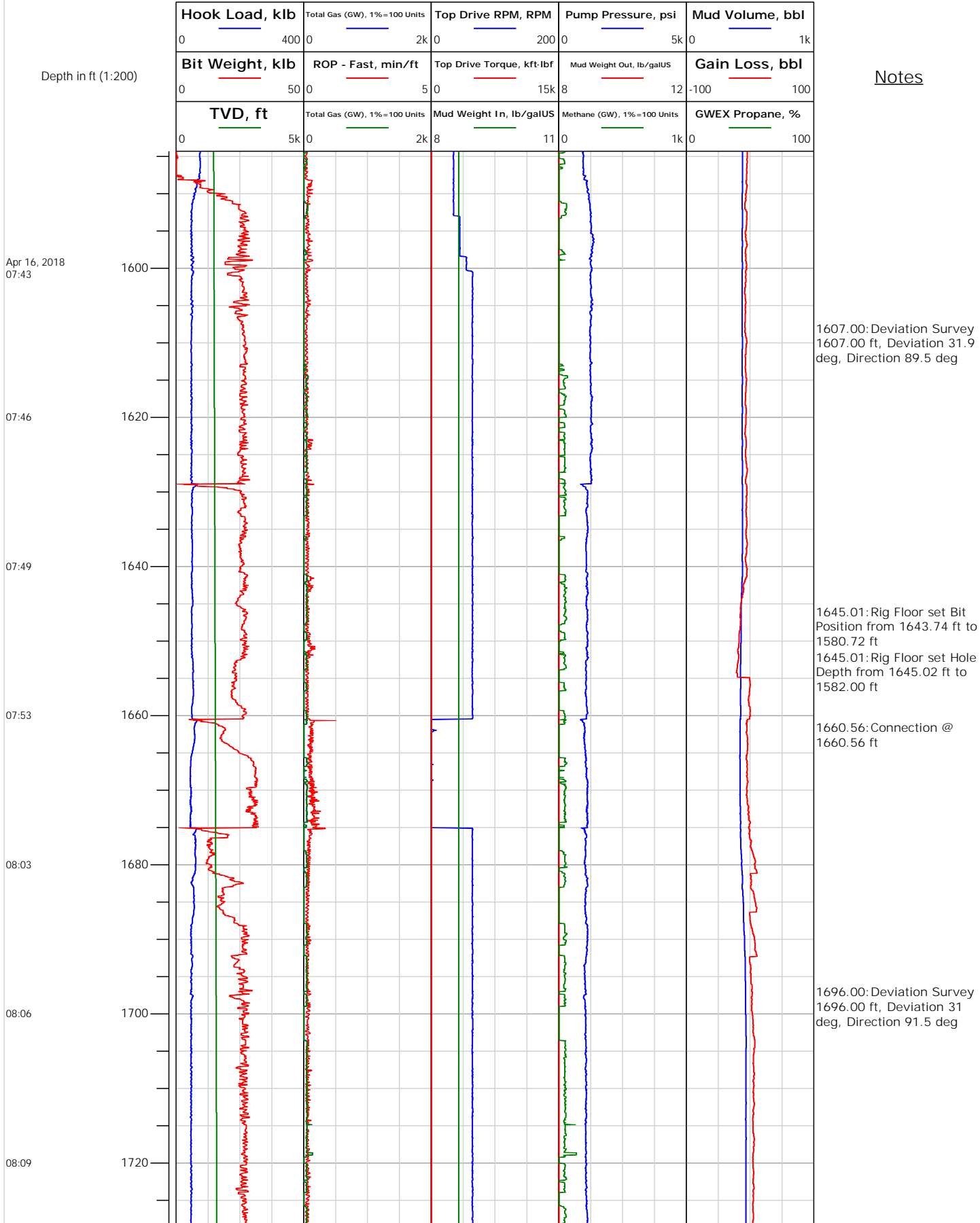
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**Rig:** 522

**Location:**

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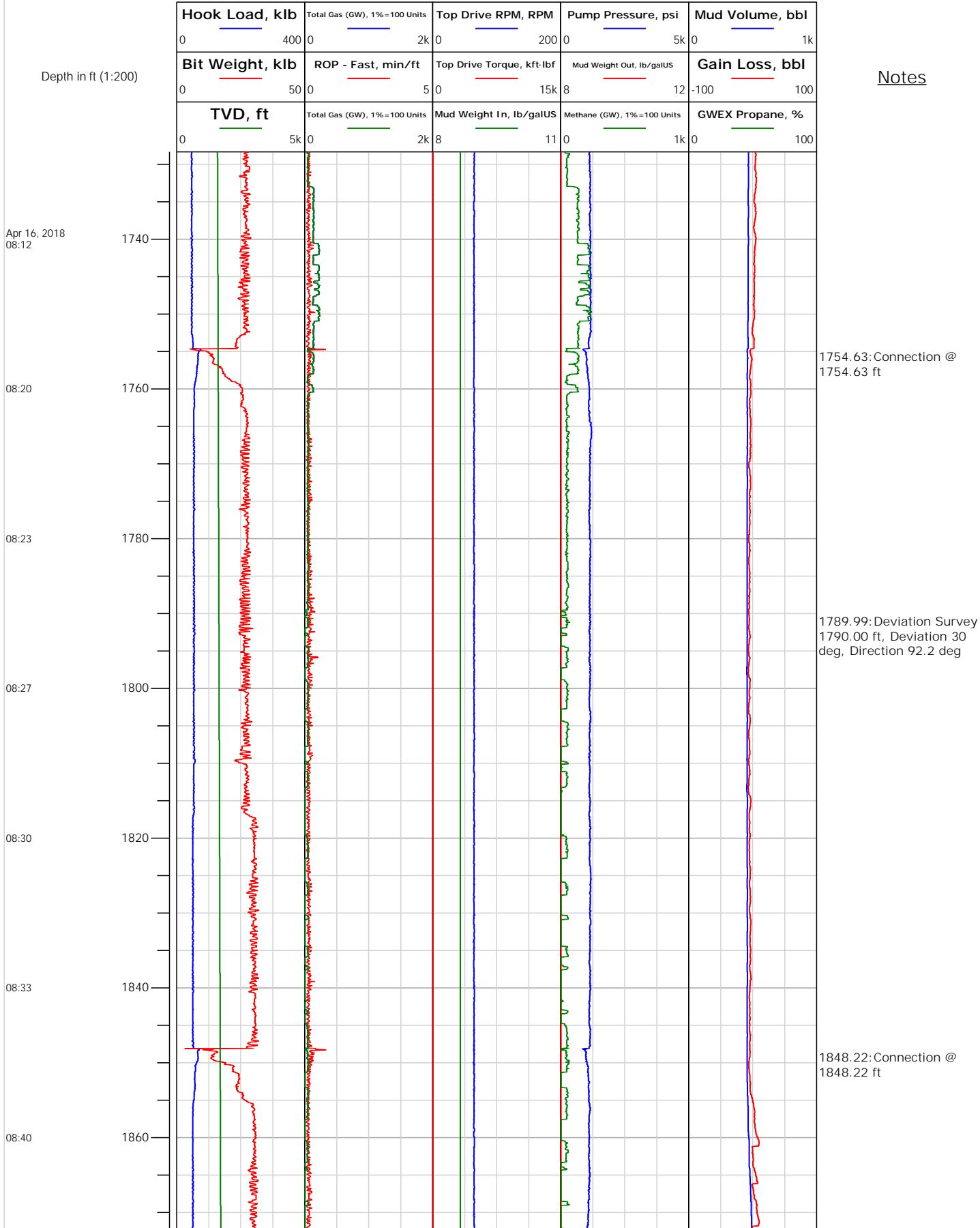
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**Rig:** 522

**Location:**

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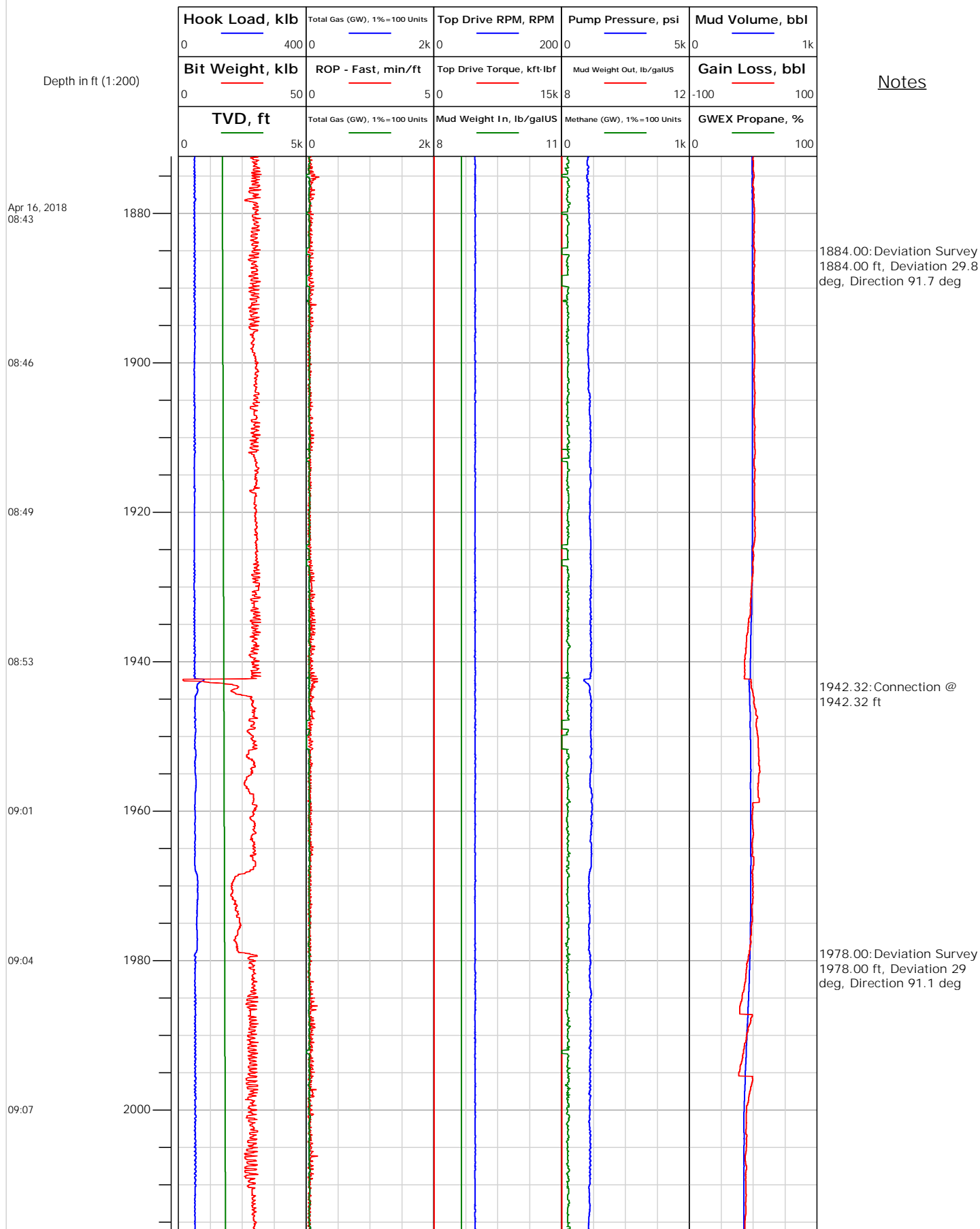
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Rig: 522

Location:

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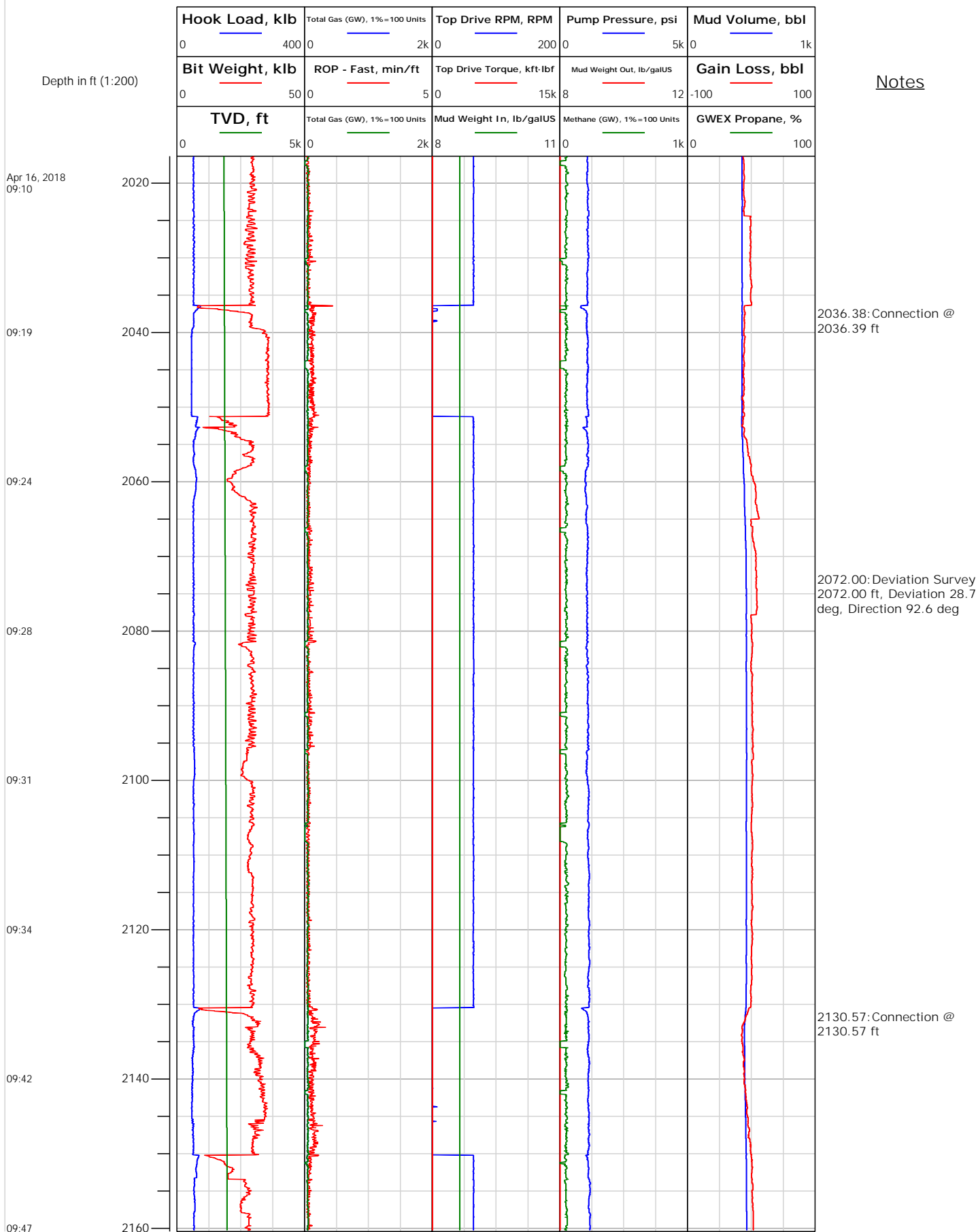
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**Rig:** 522

**Location:**

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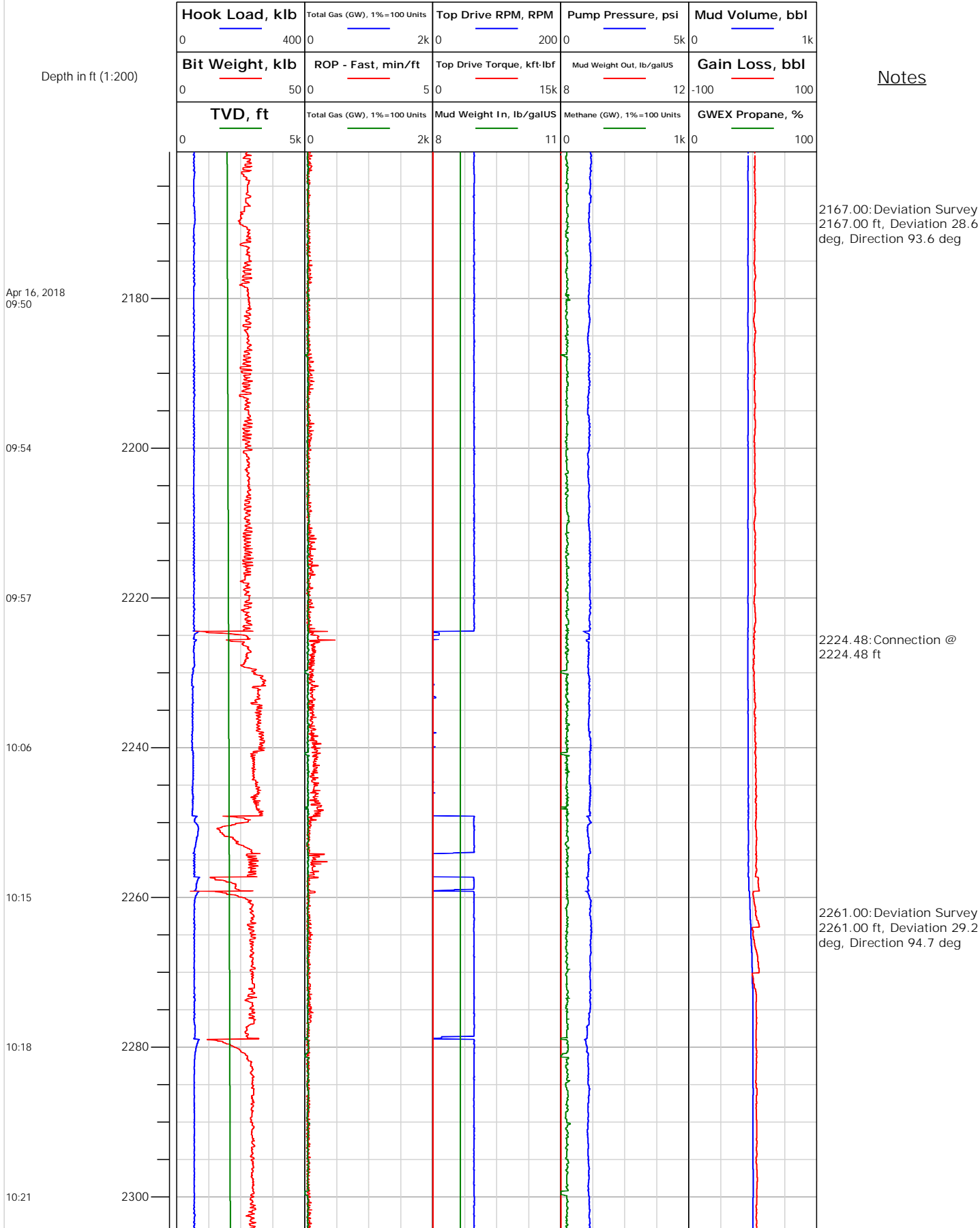
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**Rig:** 522

**Location:**

## Notes





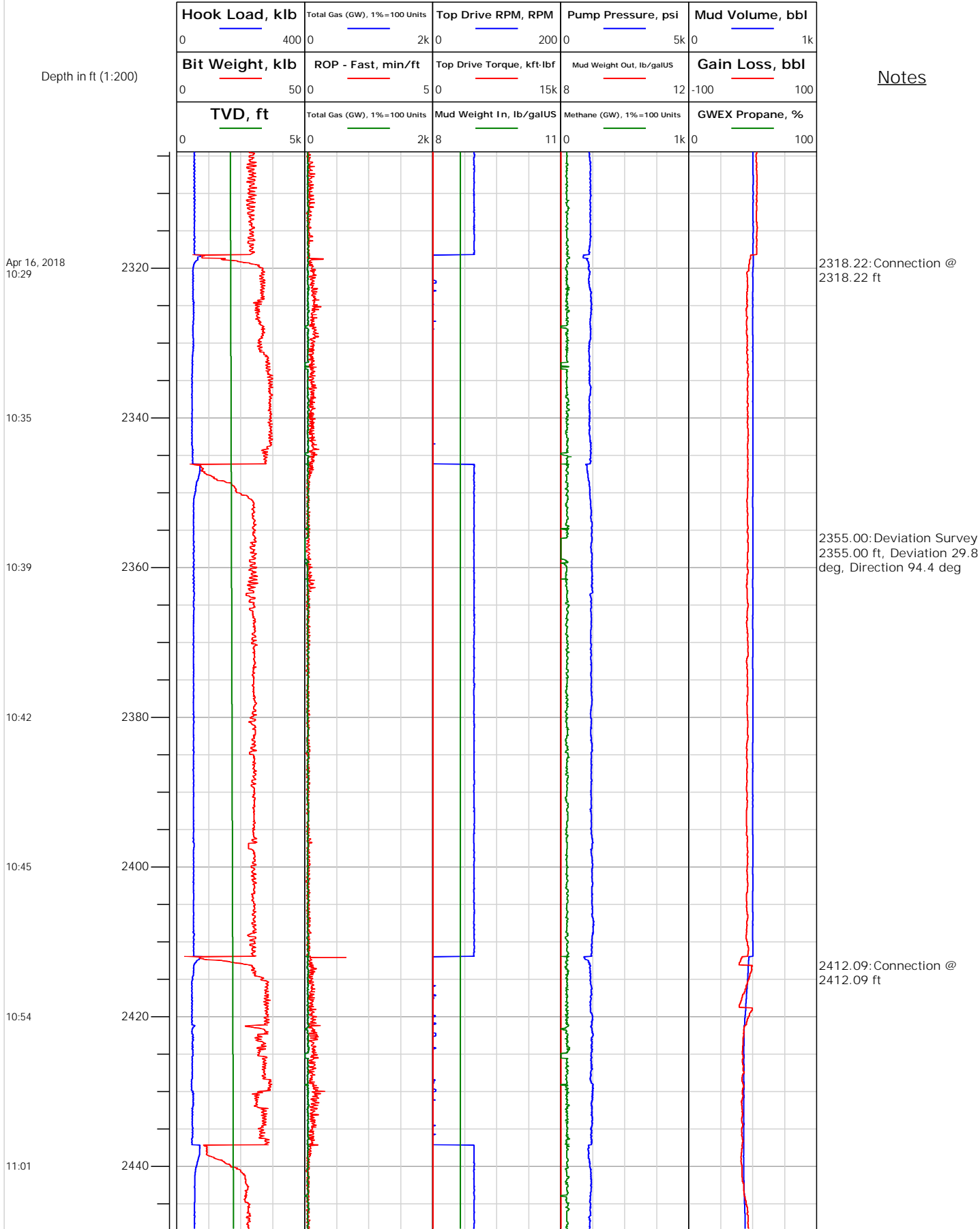
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**Rig:** 522

**Location:**

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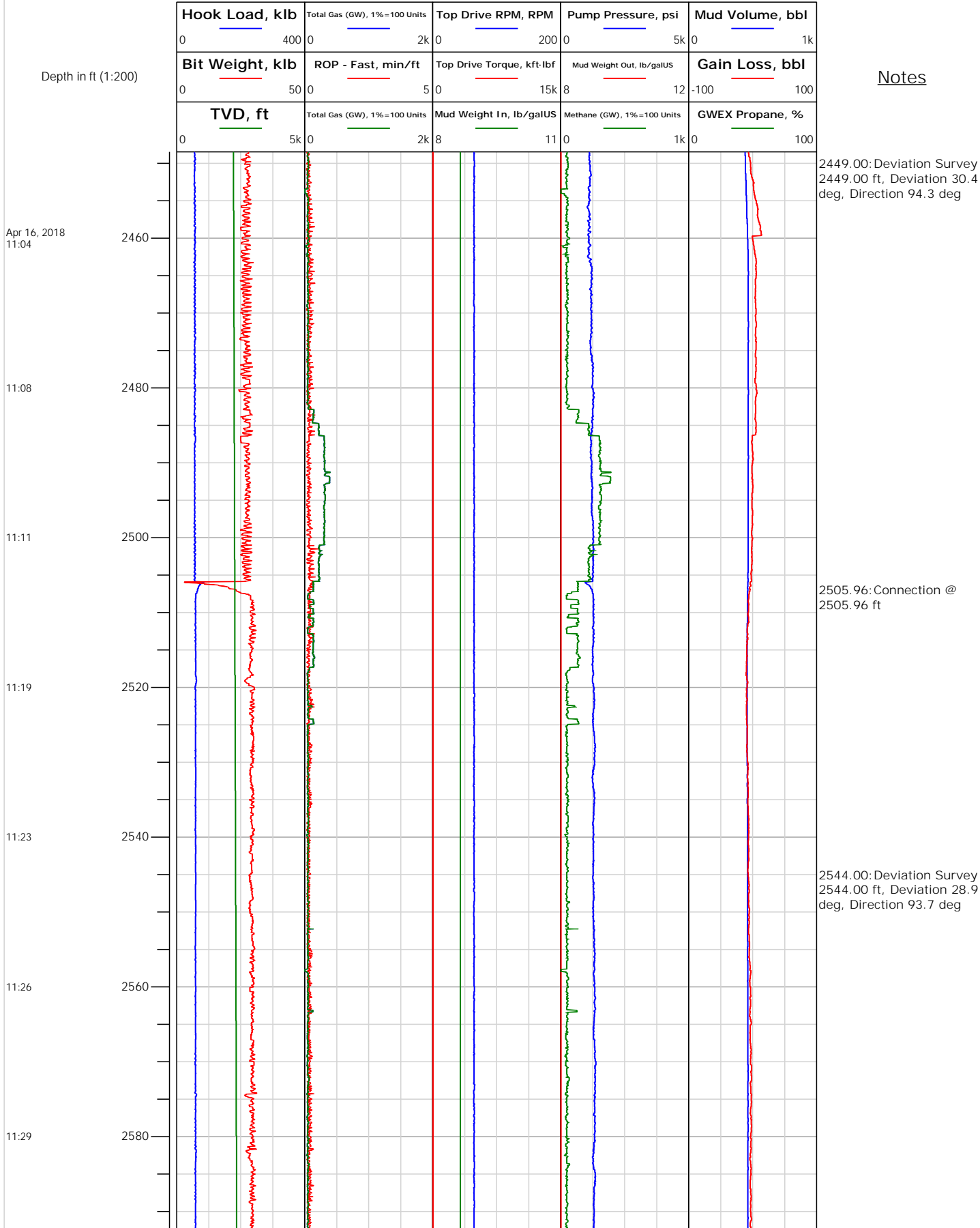
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**Rig:** 522

**Location:**

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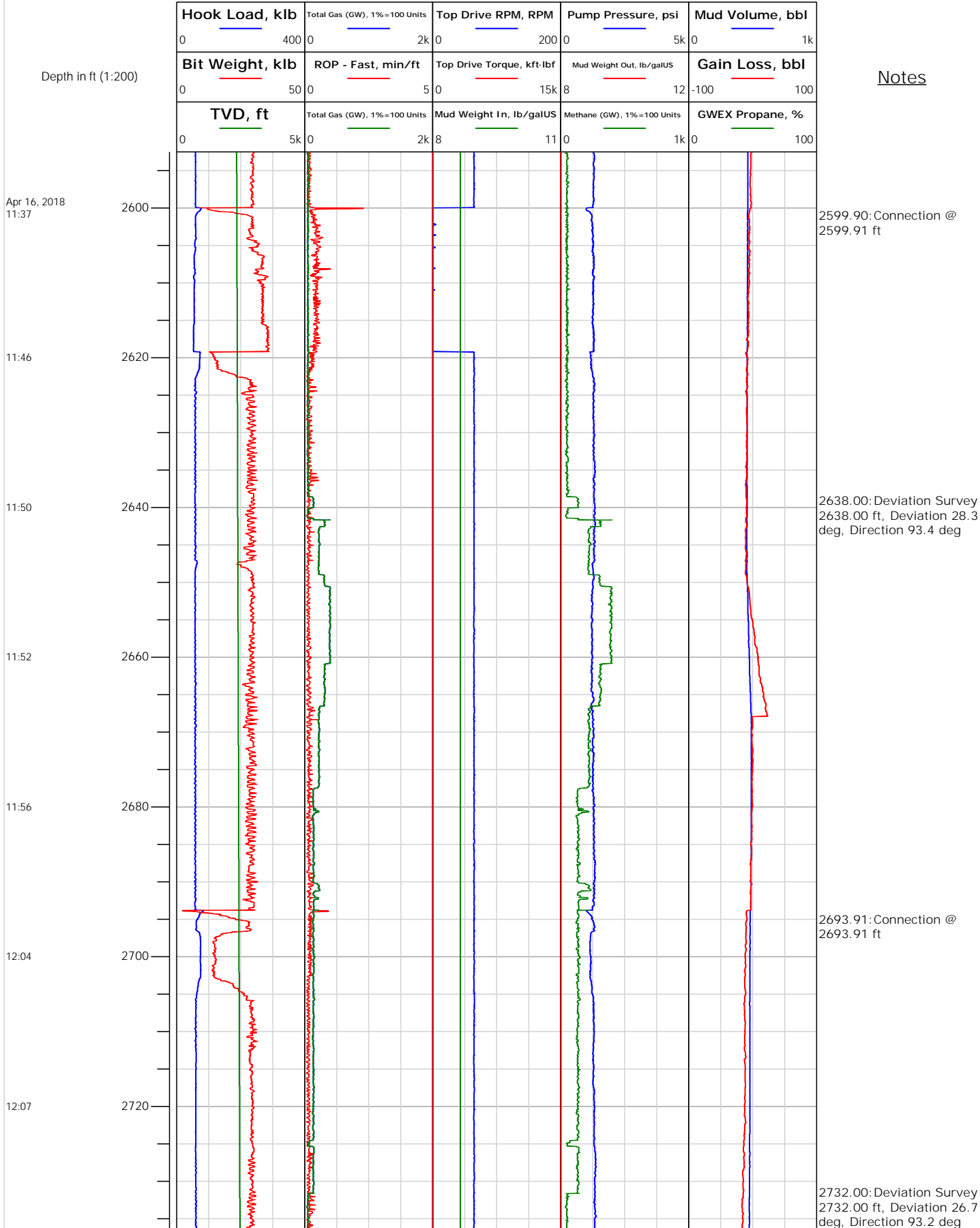
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**Rig:** 522

**Location:**

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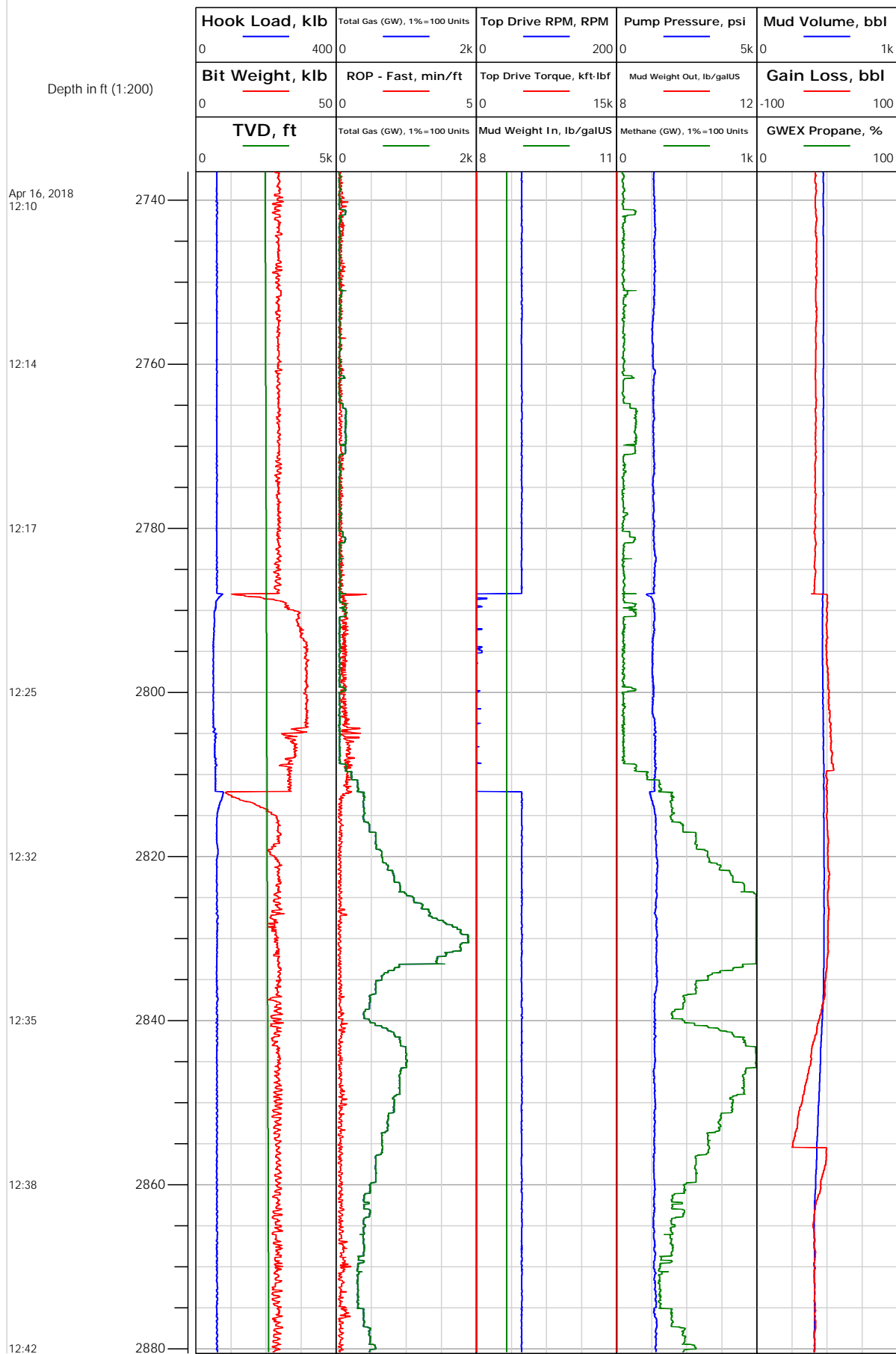
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Contractor: Helmerich & Payne Drlg Co

Well Name: GUNDERSON 0994-13-16E  
Rig: 522

Location:

Notes





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Operator: Laramie Energy  
Contractor: Helmerich & Payne Drlg Co

Well Name: GUNDERSON 0994-13-16E  
Rig: 522

Location:

## Notes

Depth in ft (1:200)

Apr 16, 2018  
12:52

12:56

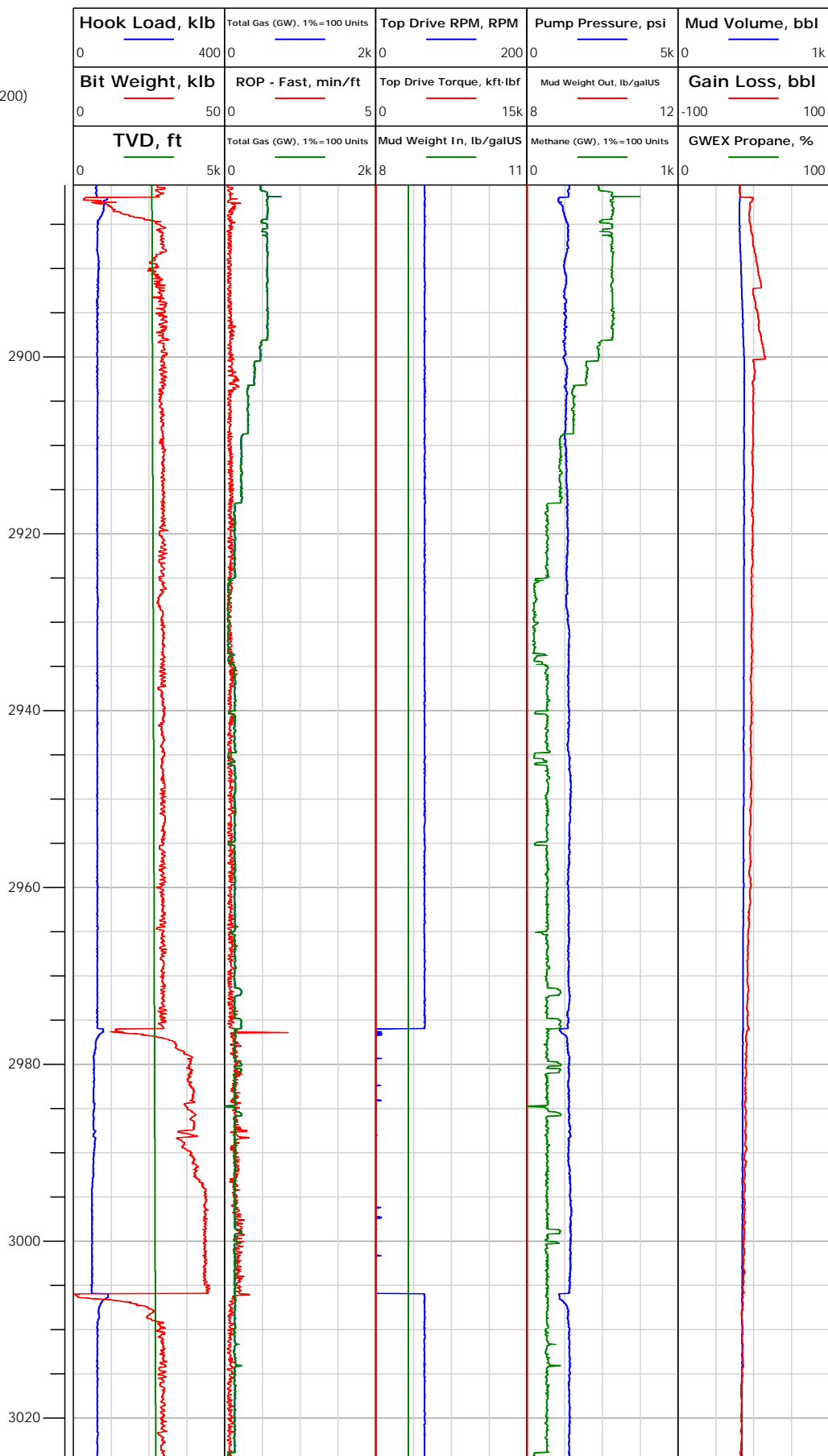
12:59

13:03

13:11

13:19

13:25





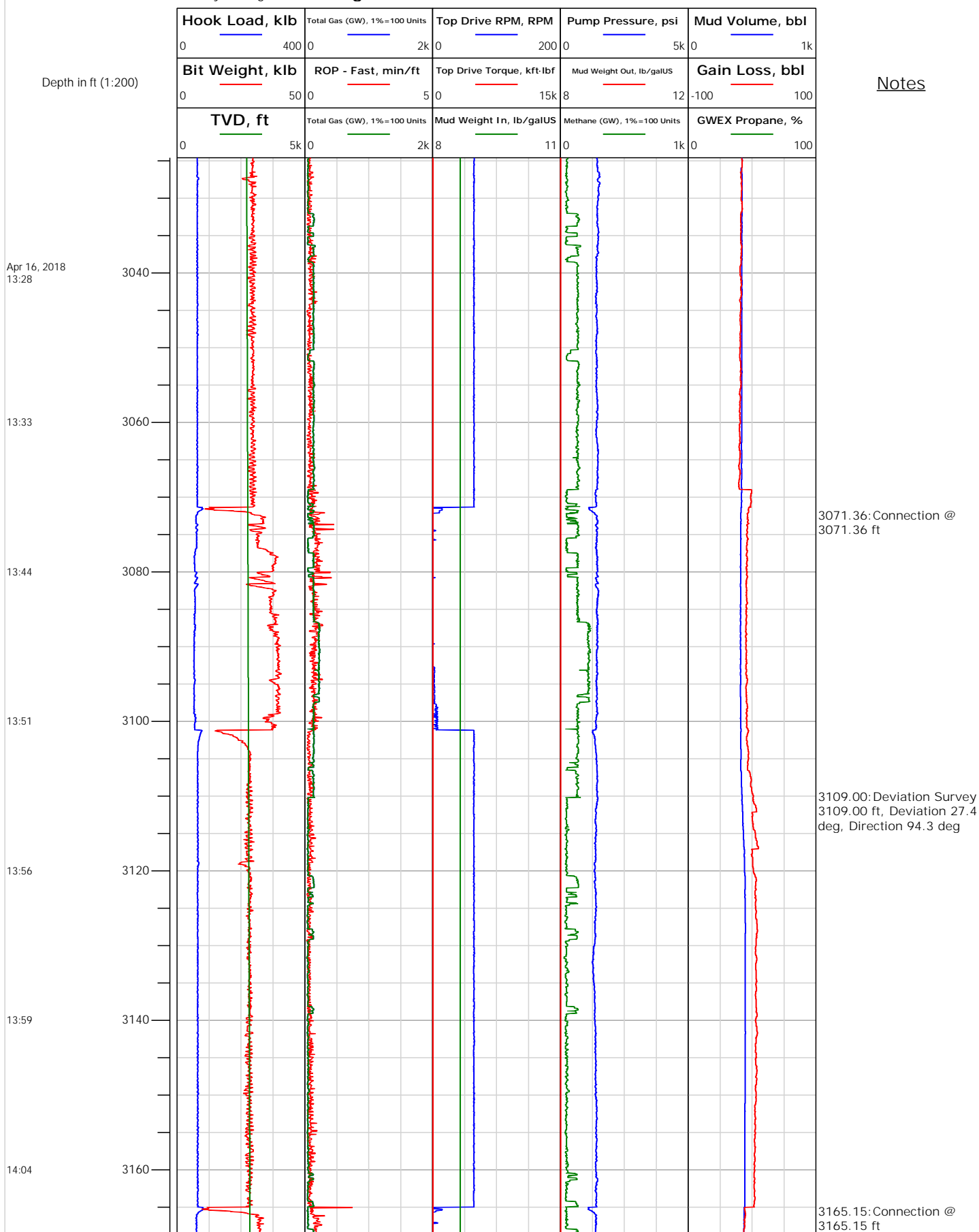
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Operator: Laramie Energy  
Contractor: Helmerich & Payne Drlg Co

Well Name: GUNDERSON 0994-13-16E  
Rig: 522

Location:

Notes





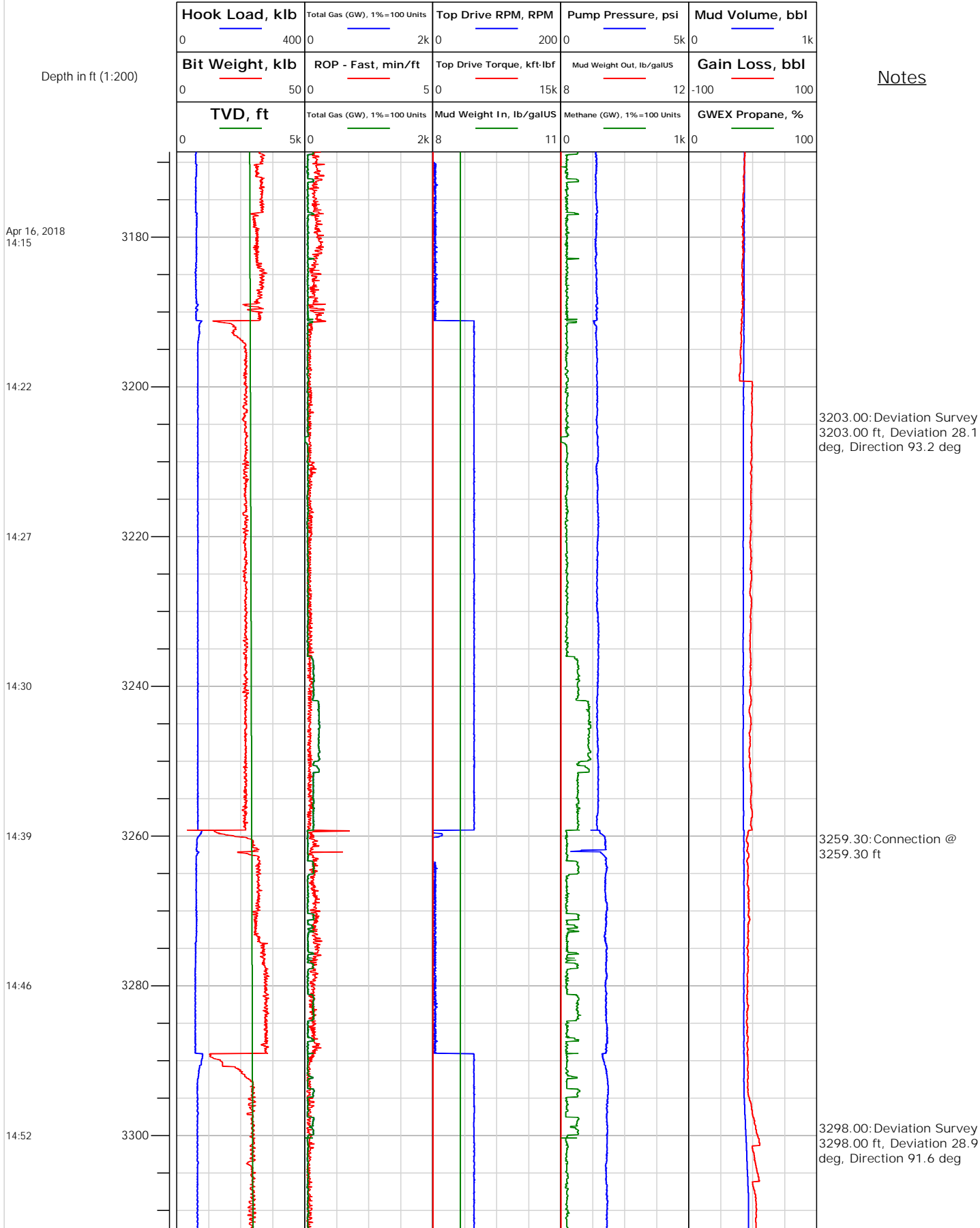
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**Operator:** Laramie Energy  
**Contractor:** Helmerich & Payne Drlg Co

**Well Name:** GUNDERSON 0994-13-16E  
**Rig:** 522

**Location:**

## Notes





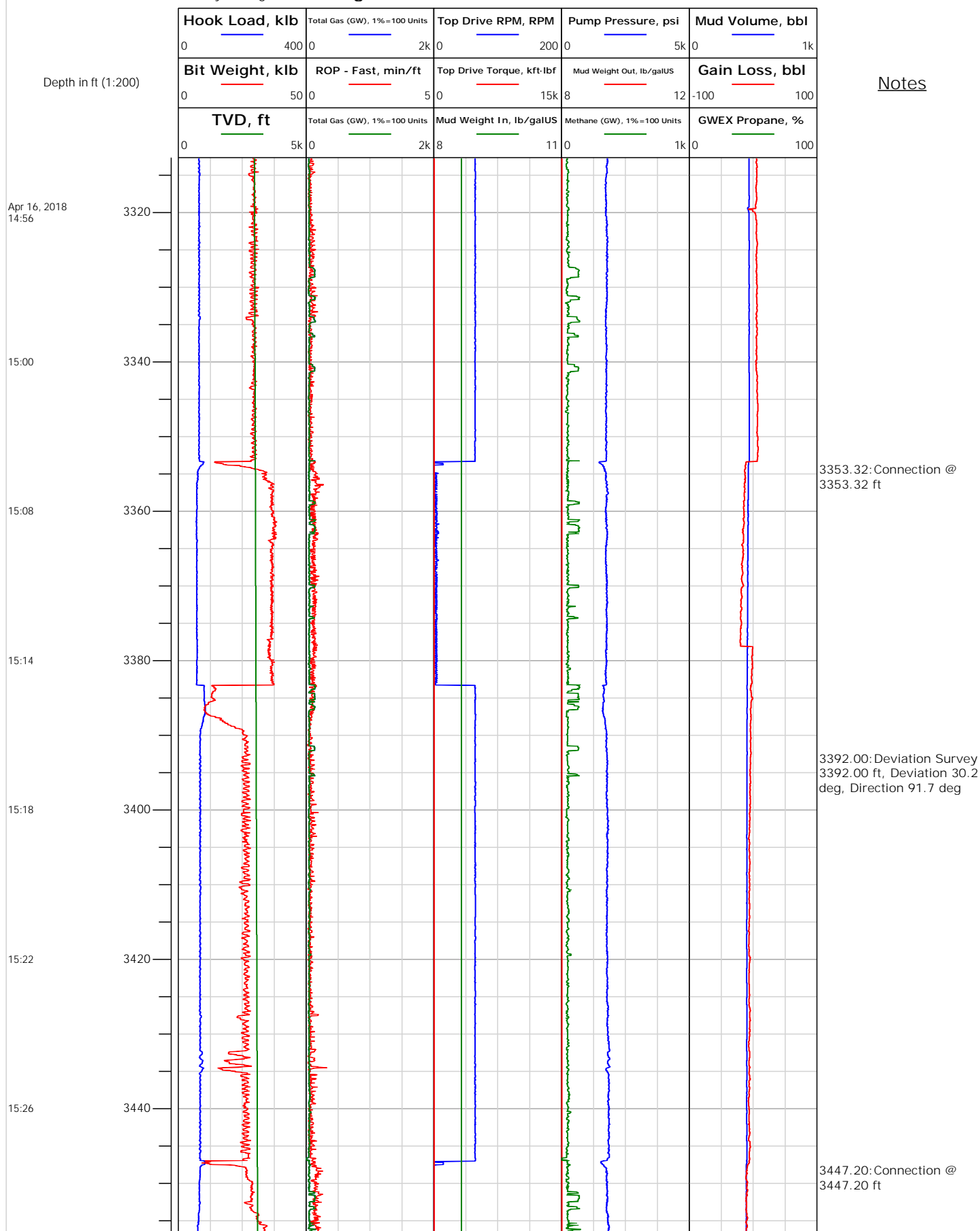
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Contractor: Helmerich & Payne Drlg Co

Well Name: GUNDERSON 0994-13-16E  
Rig: 522

Location:

Notes





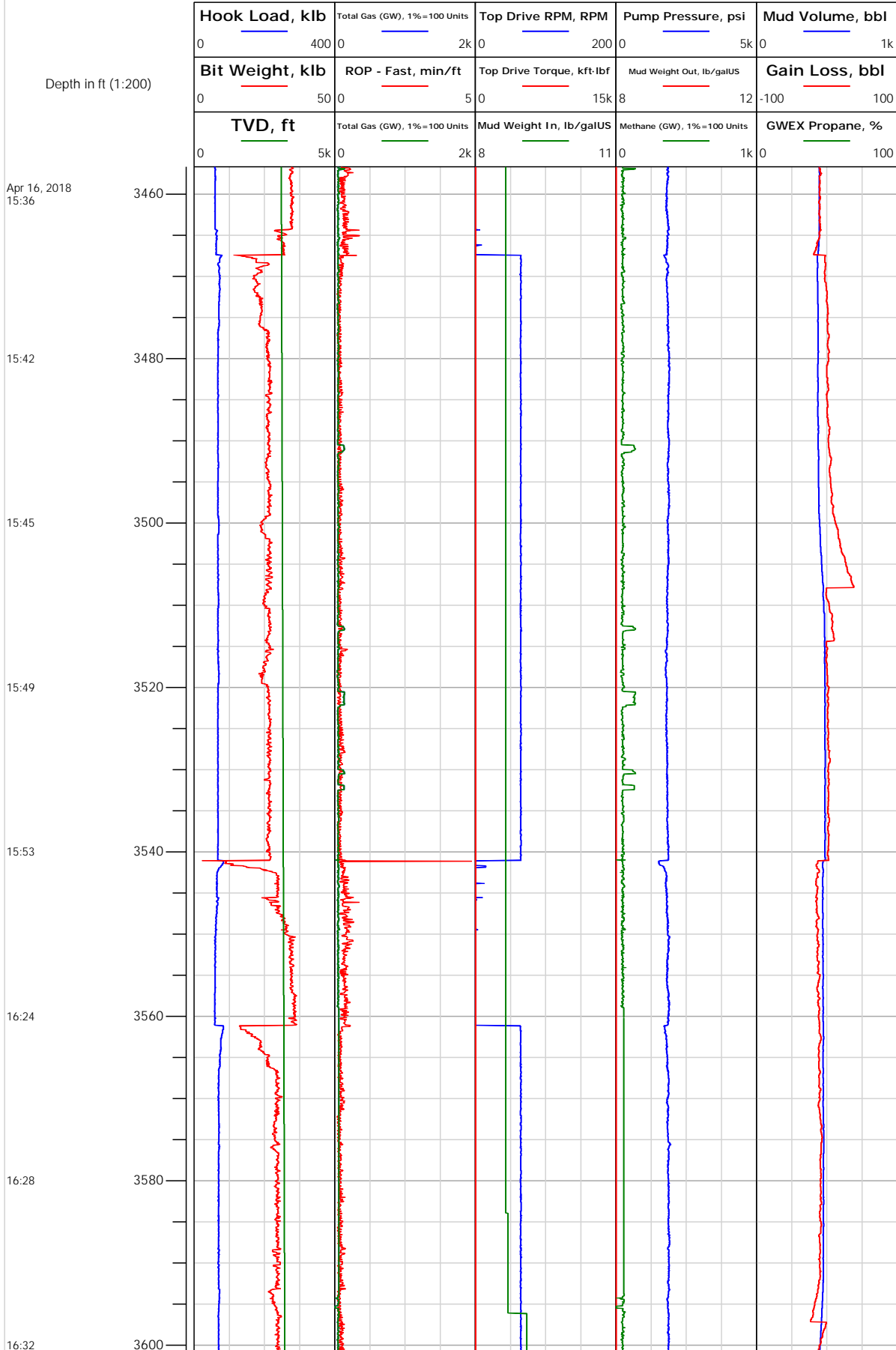
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**Rig:** 522

**Location:**

## Notes





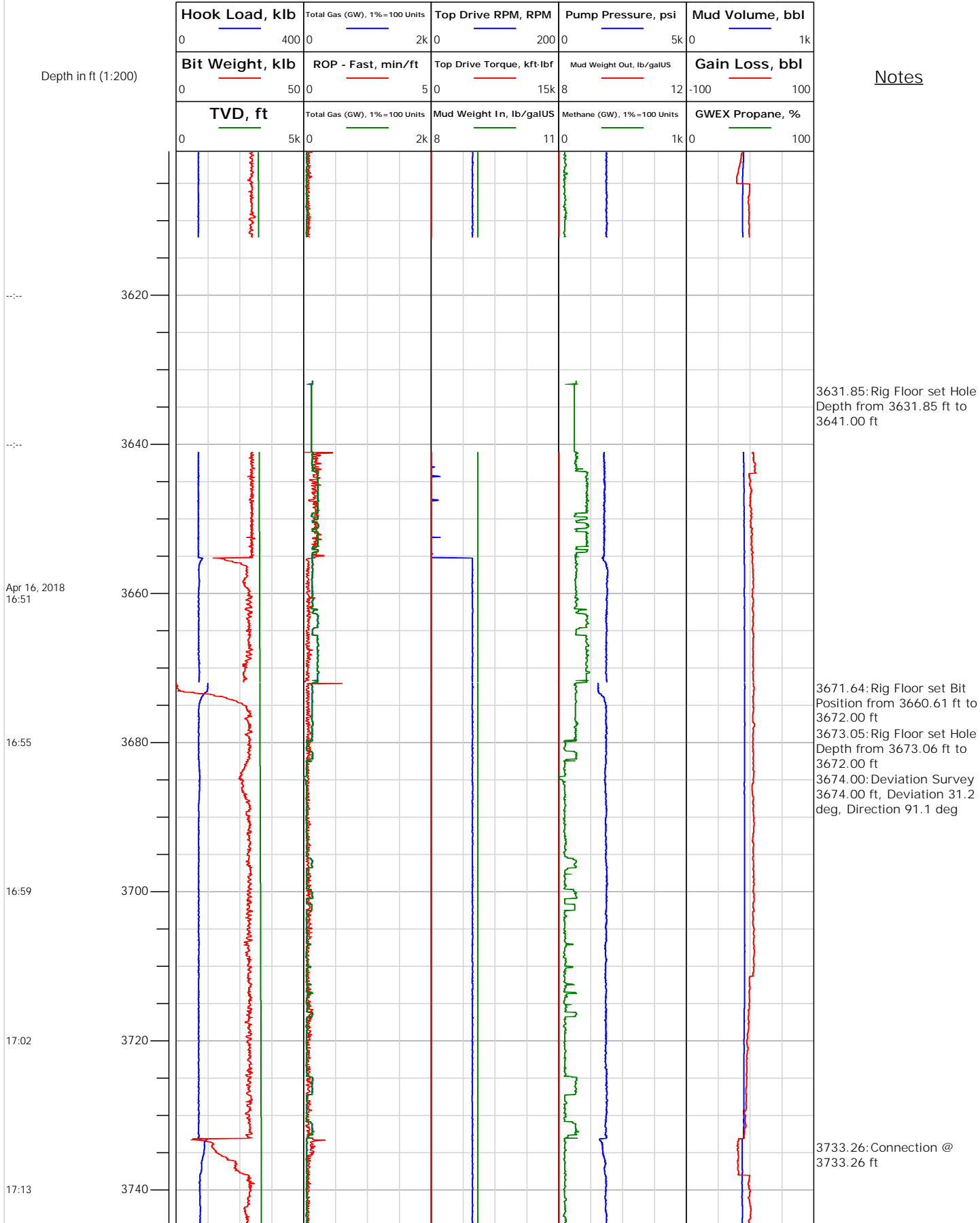
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Well Name: GUNDERSON 0994-13-16E  
Rig: 522

Location:

## Notes







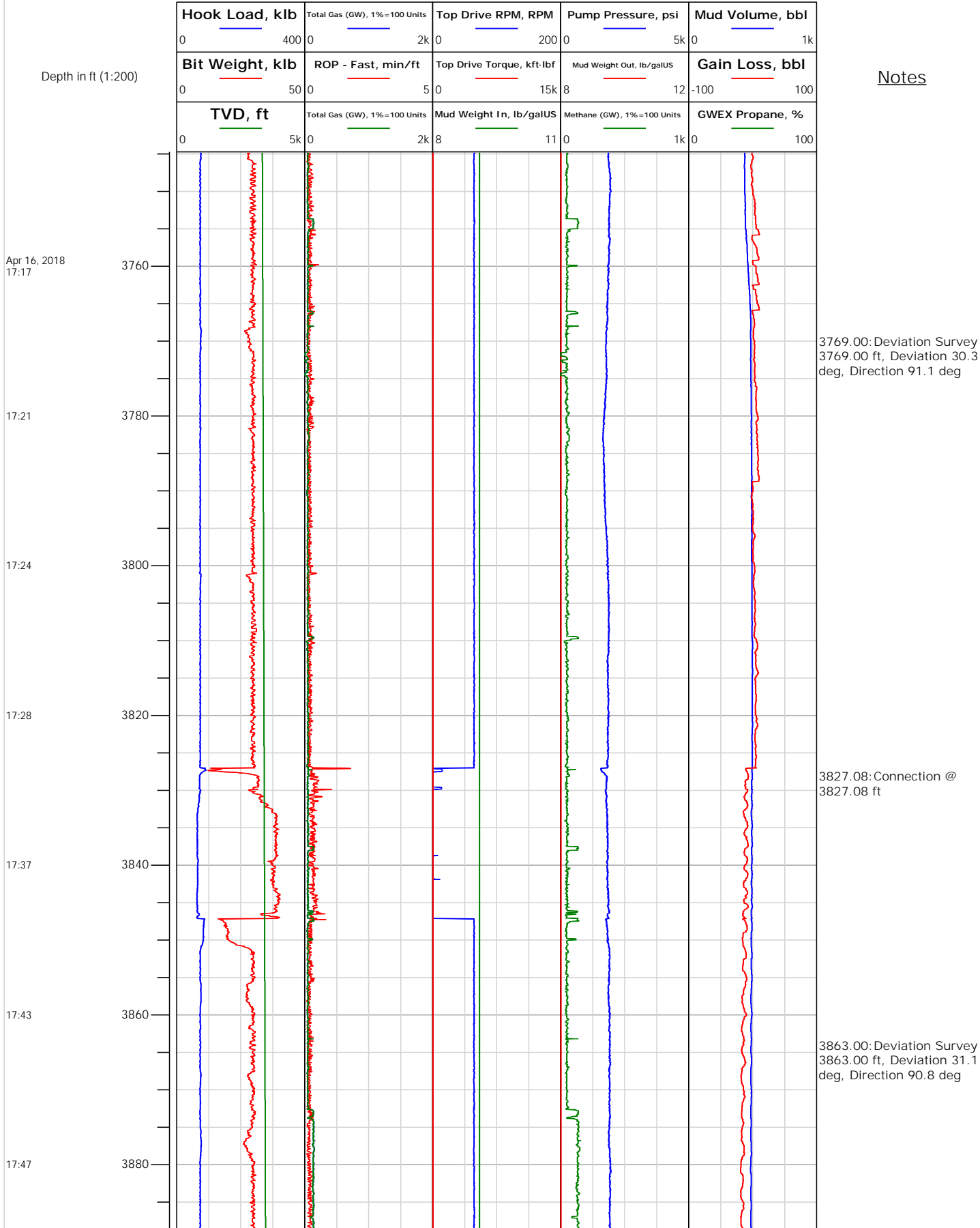
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**Well Name:** GUNDERSON 0994-13-16E  
**Rig:** 522

**Location:**

## Notes





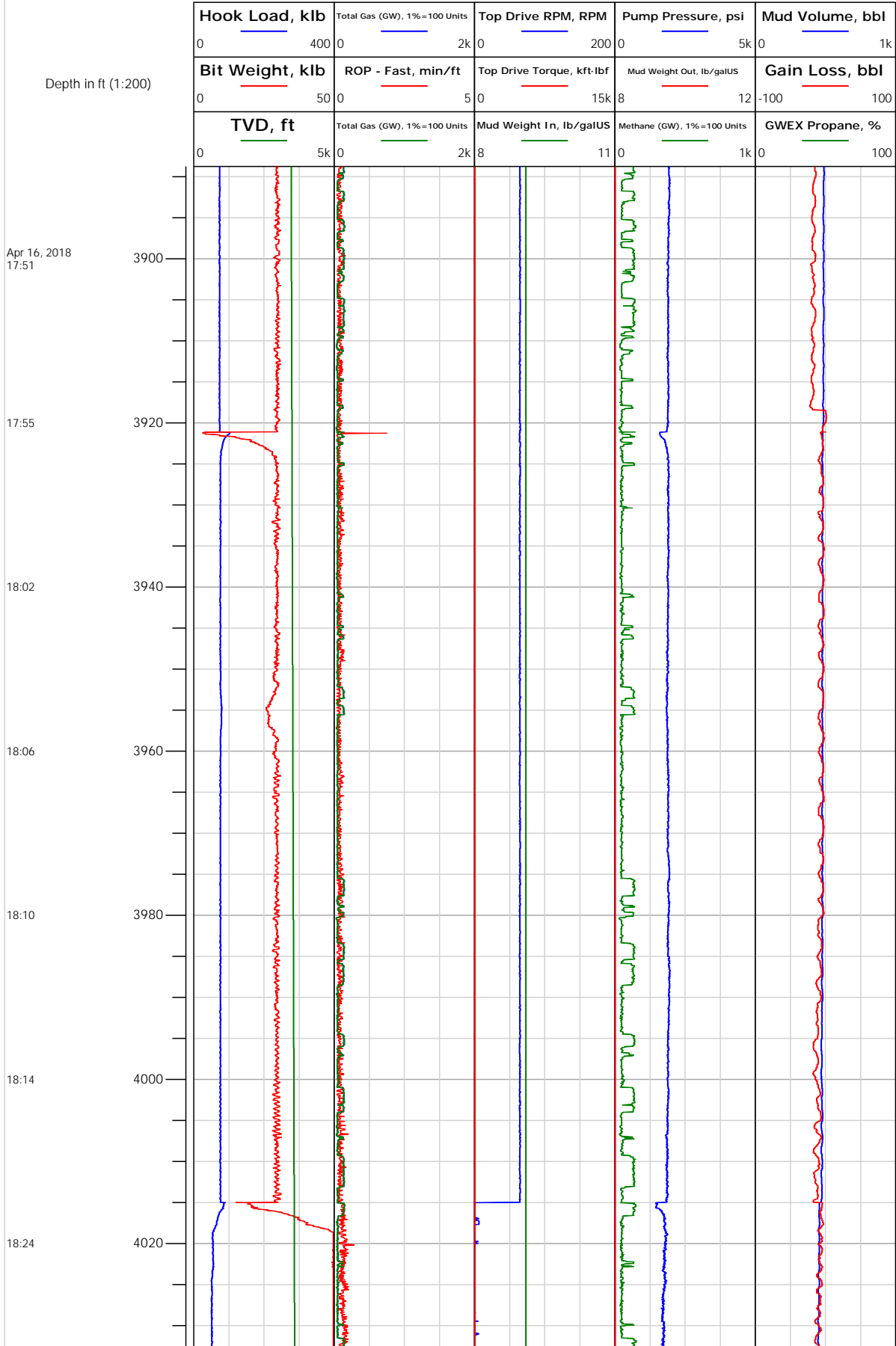
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**Well Name:** GUNDERSON 0994-13-16E  
**Rig:** 522

**Location:**

Notes





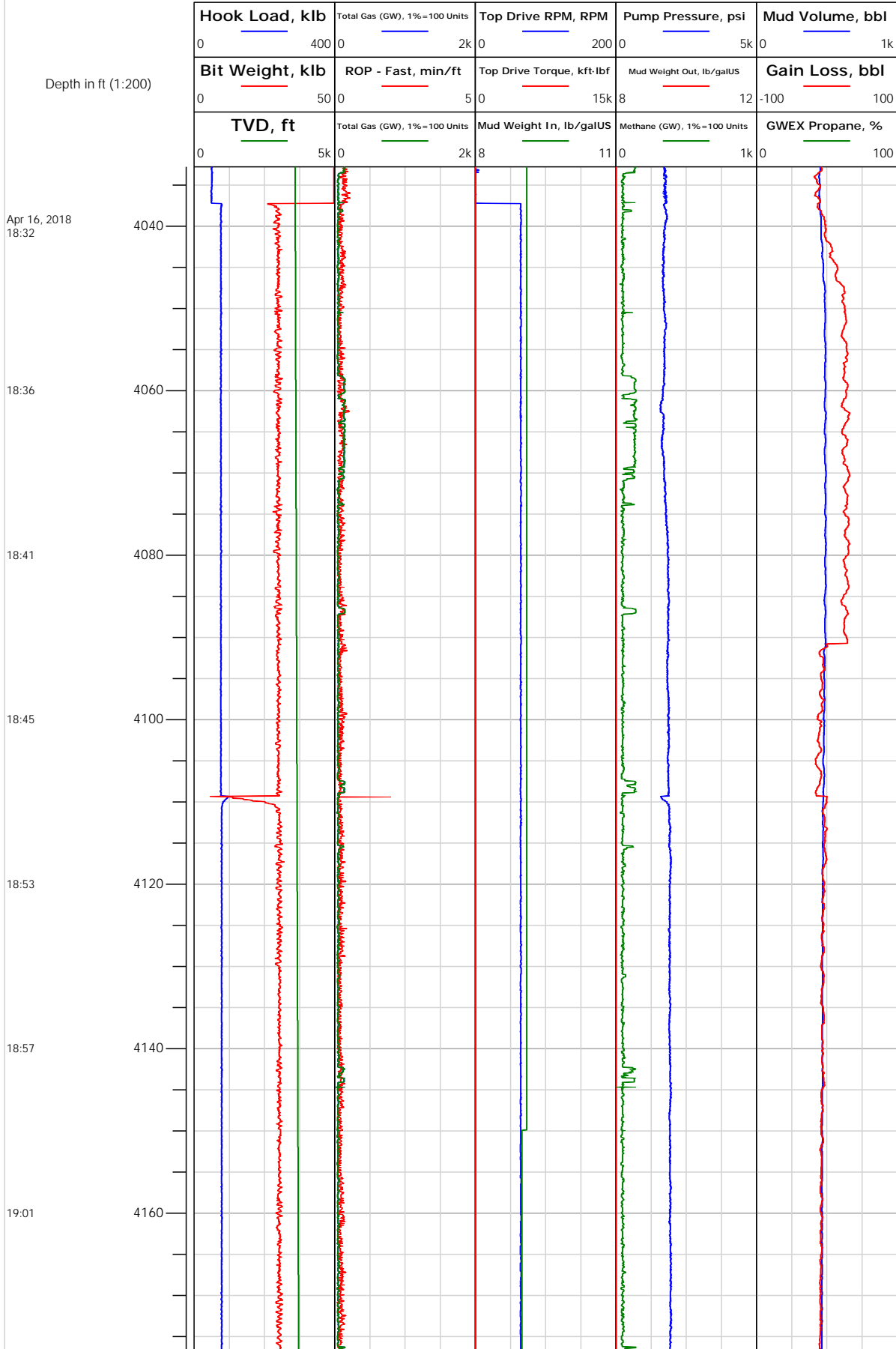
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**Rig:** 522

**Location:**

## Notes



4051.99: Deviation Survey  
4052.00 ft, Deviation 30.4 deg, Direction 91.9 deg

4109.36: Connection @  
4109.36 ft

4146.00: Deviation Survey  
4146.00 ft, Deviation 29.9 deg, Direction 92.1 deg



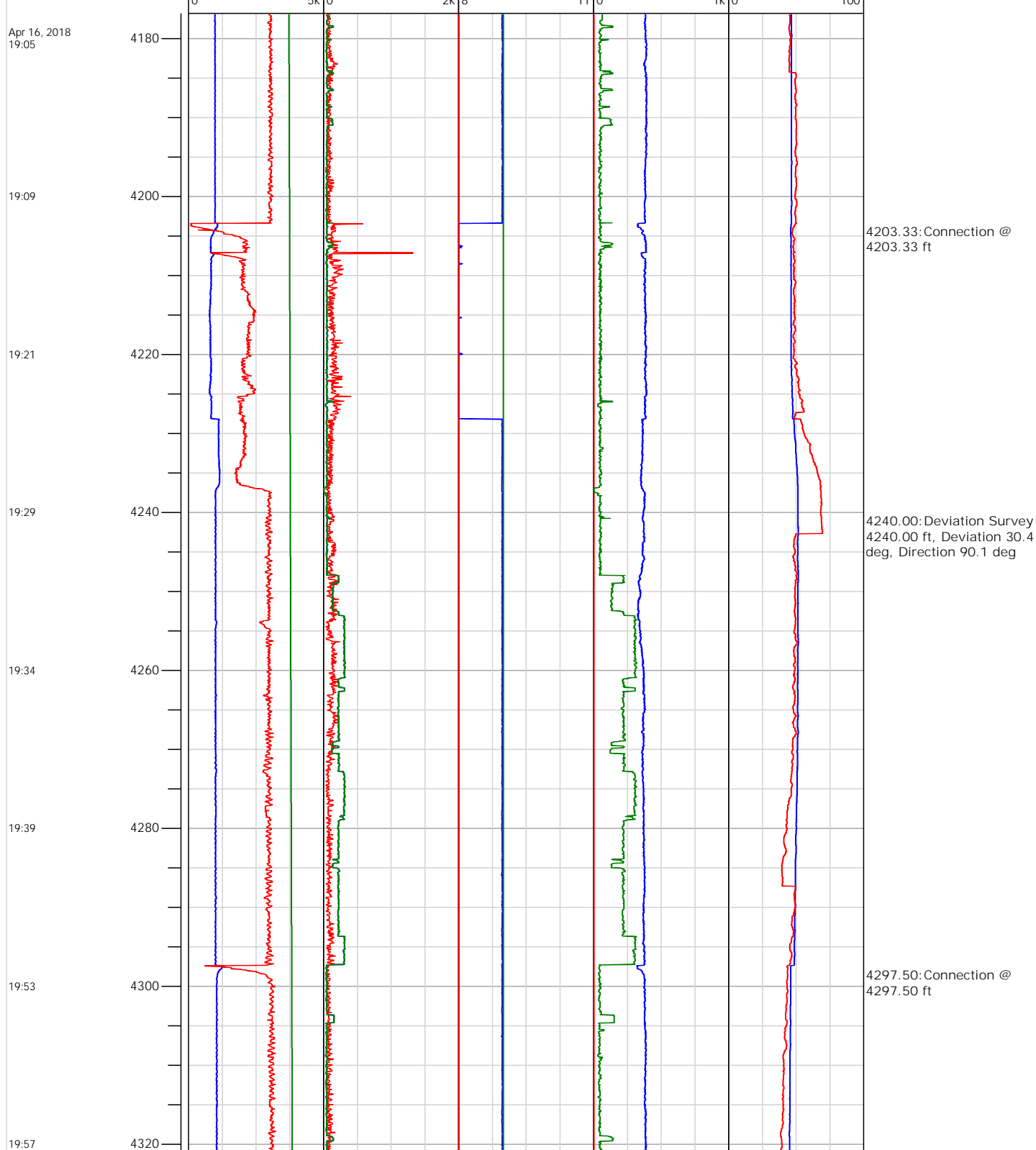
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Well Name: GUNDERSON 0994-13-16E  
Rig: 522

Location:

Notes





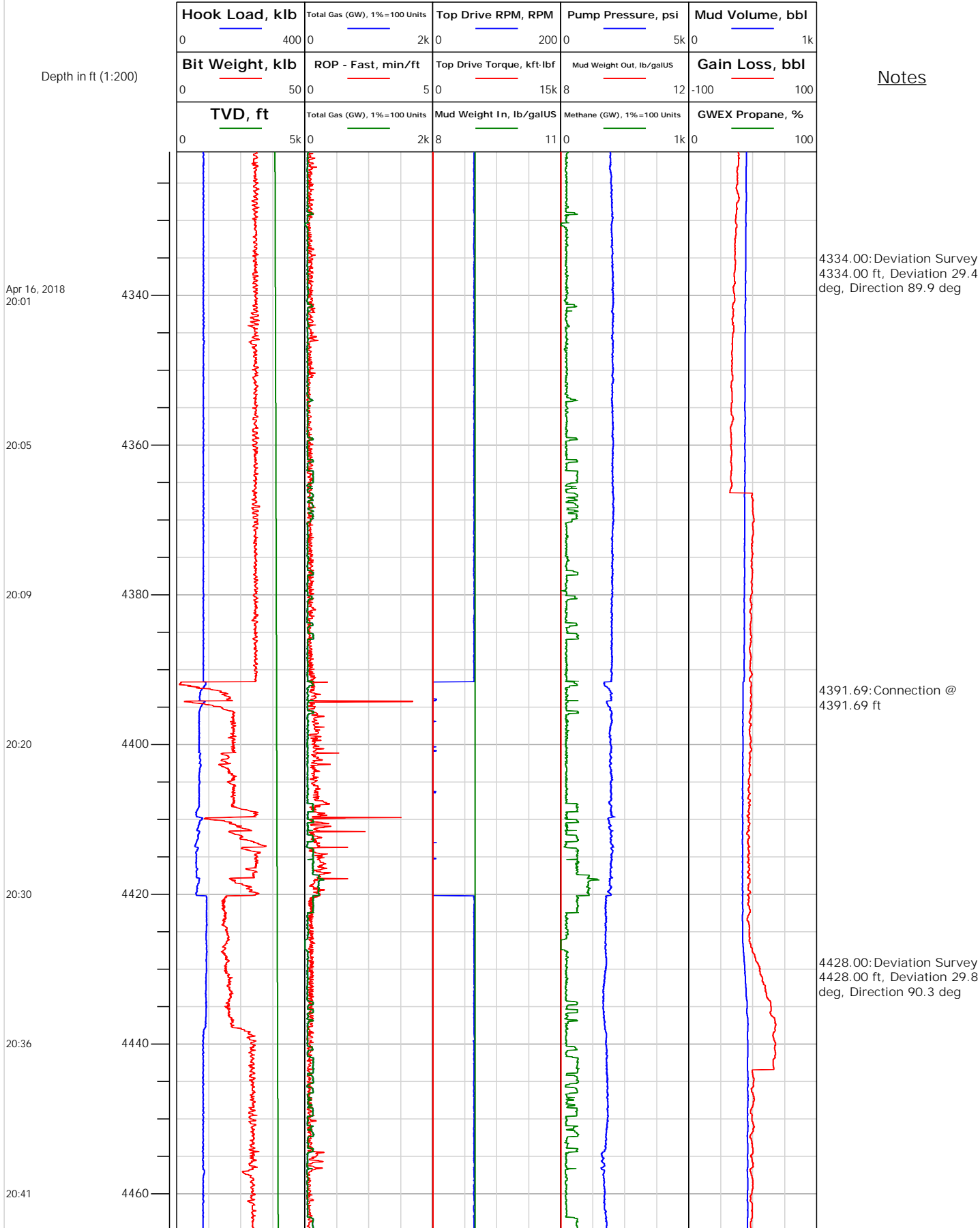
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**Well Name:** GUNDERSON 0994-13-16E  
**Rig:** 522

**Location:**

## Notes





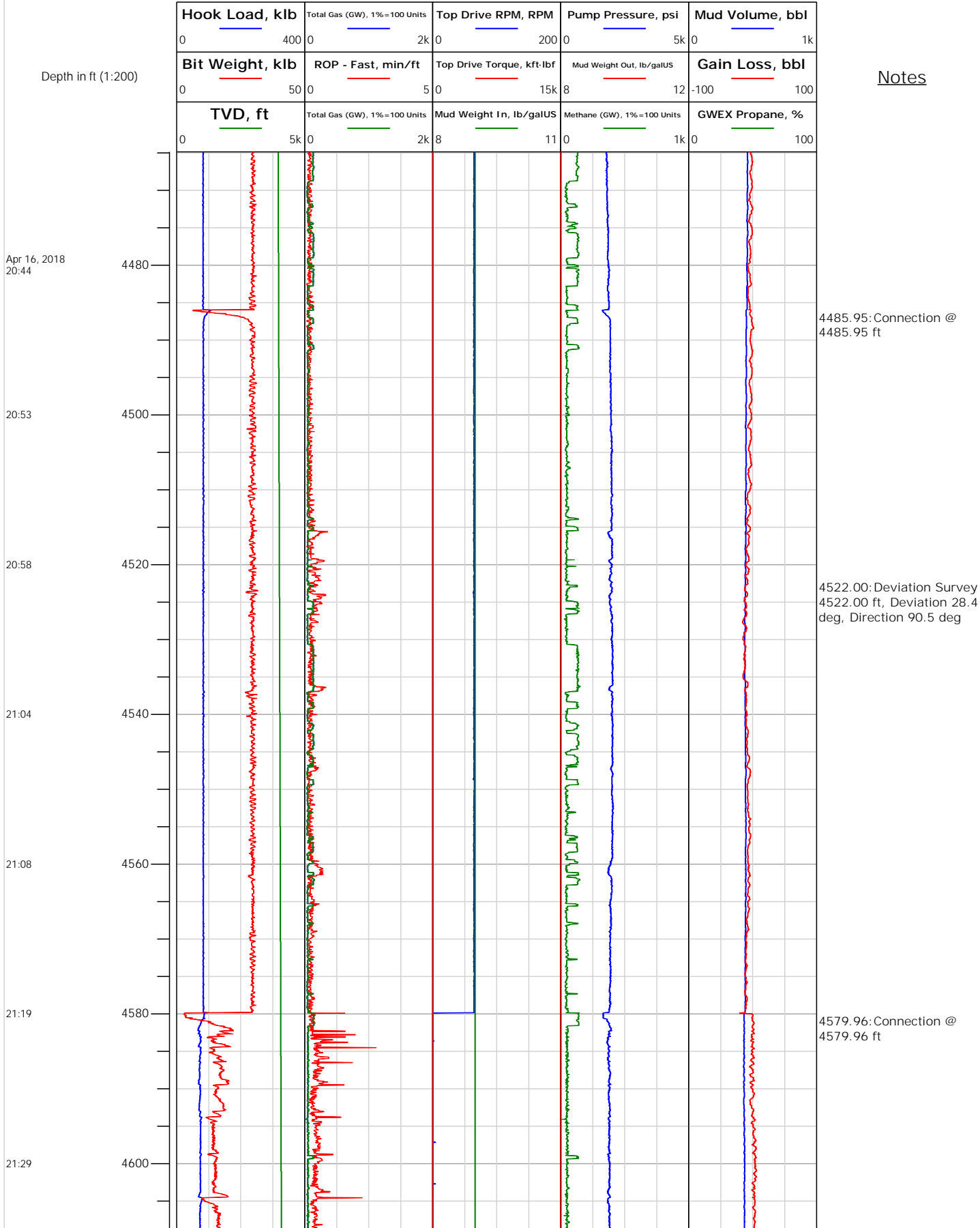
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**Rig:** 522

**Location:**

## Notes





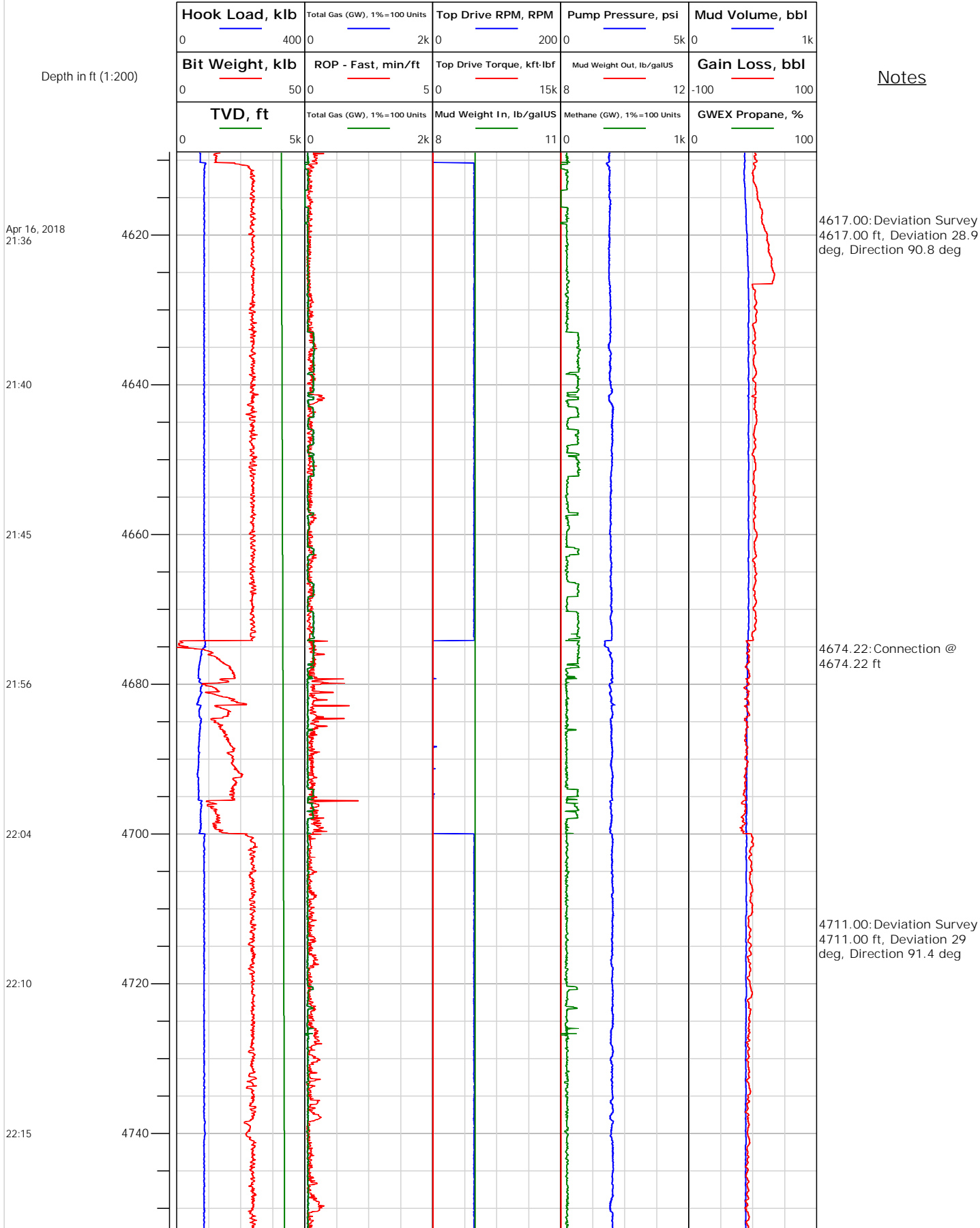
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**Rig:** 522

**Location:**

## Notes





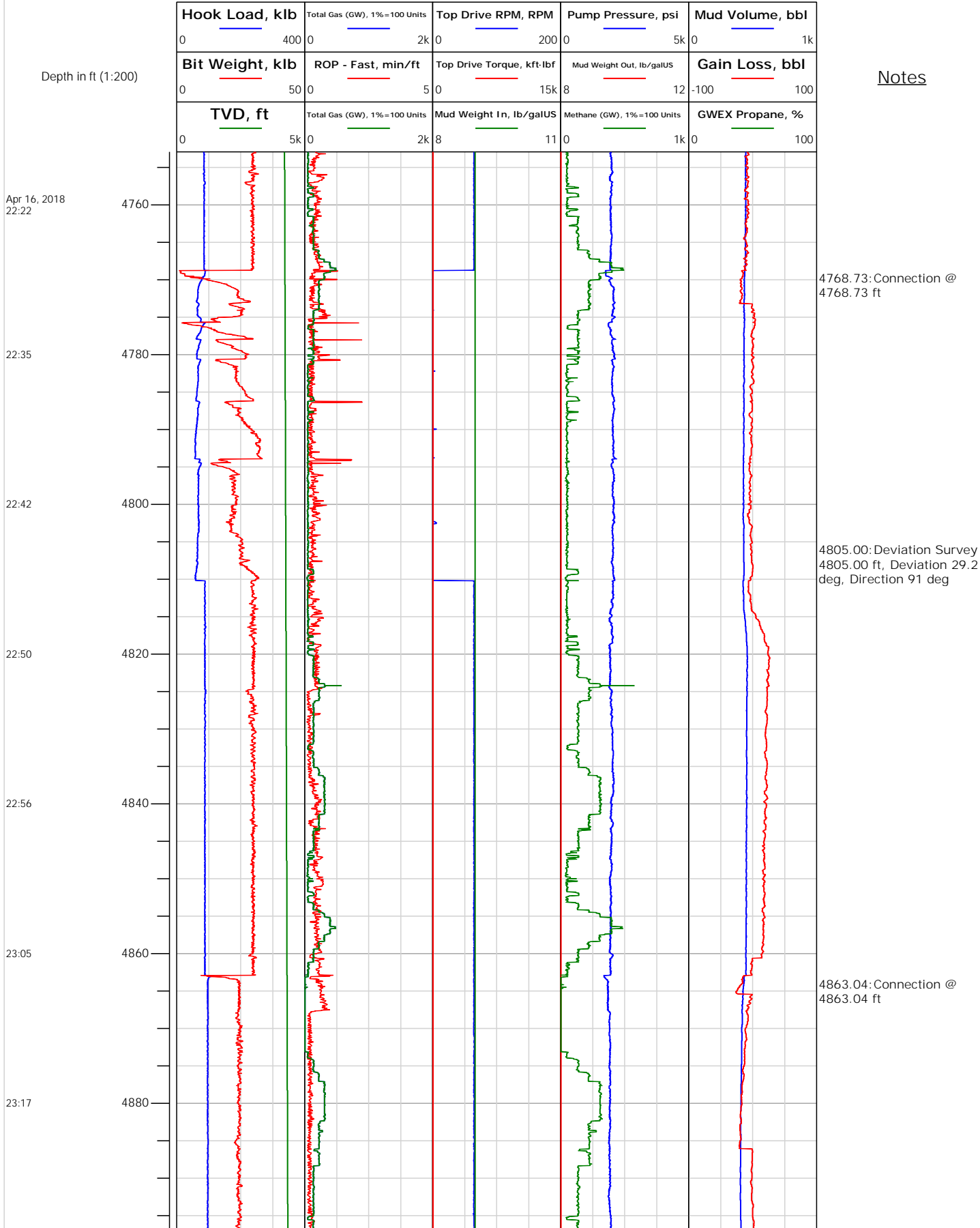
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**Contractor:** Helmerich & Payne Drlg Co

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**Rig:** 522

**Location:**

## Notes







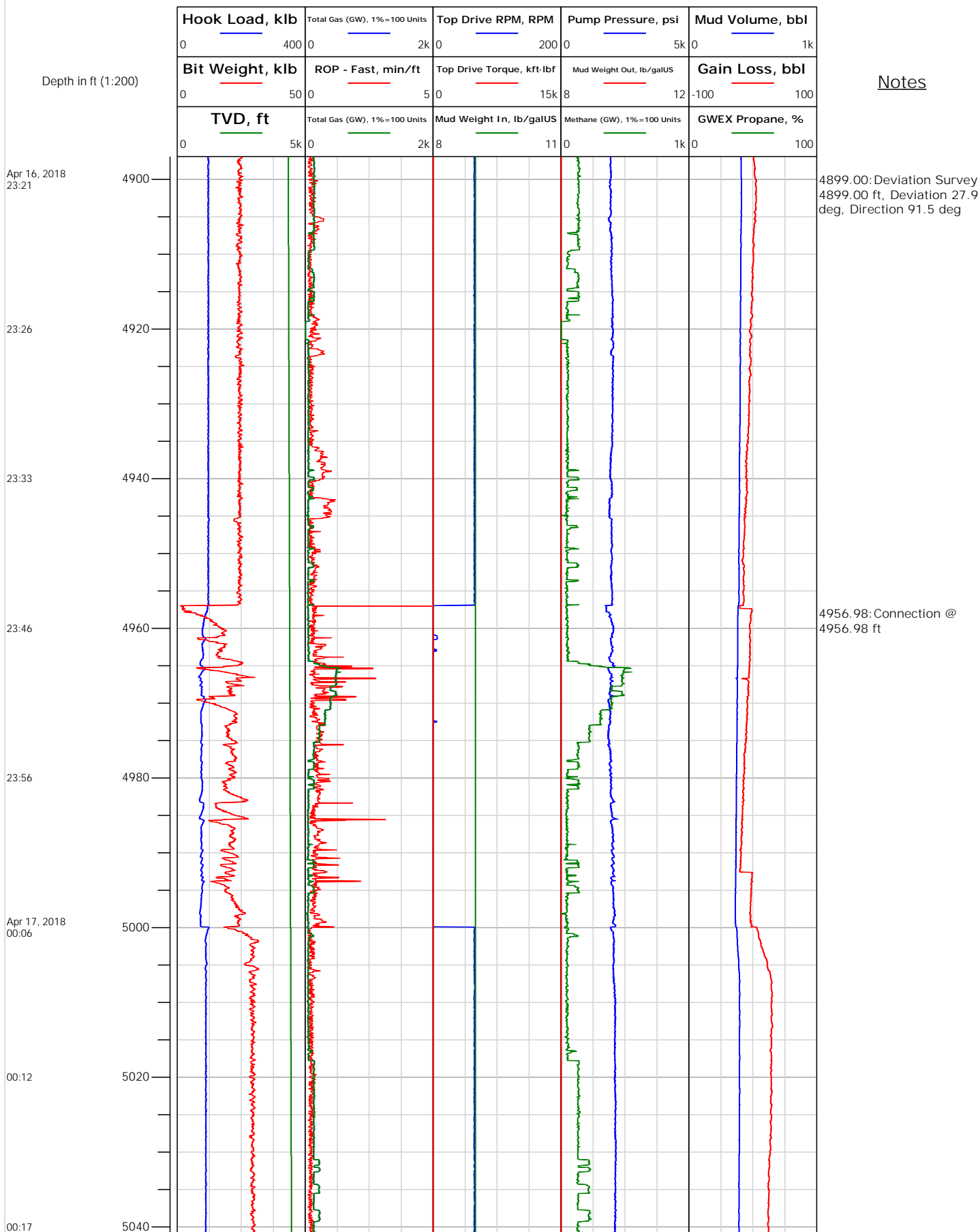
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Well Name: GUNDERSON 0994-13-16E  
Rig: 522

Location:

### Notes





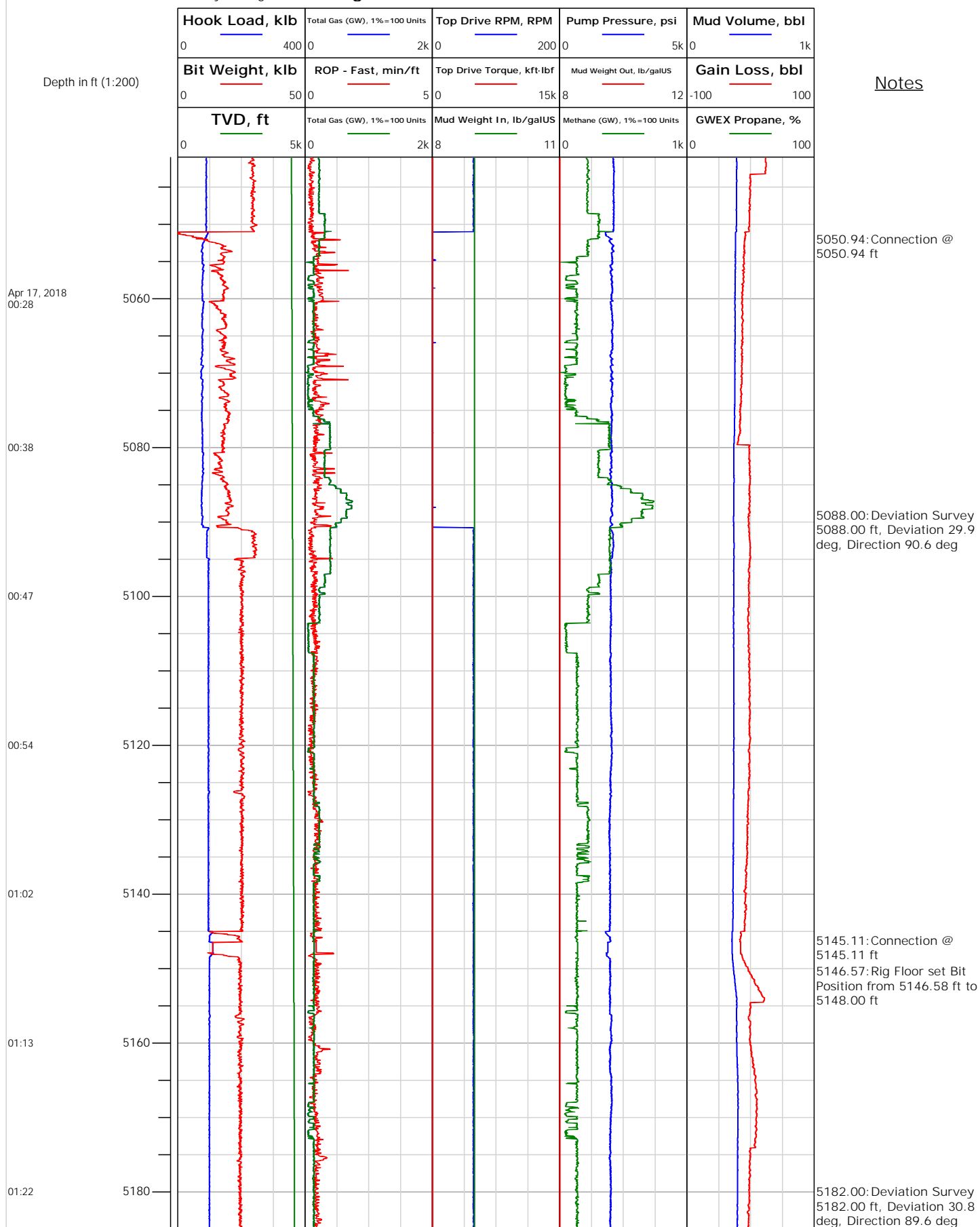
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Well Name: GUNDERSON 0994-13-16E  
Rig: 522

Location:

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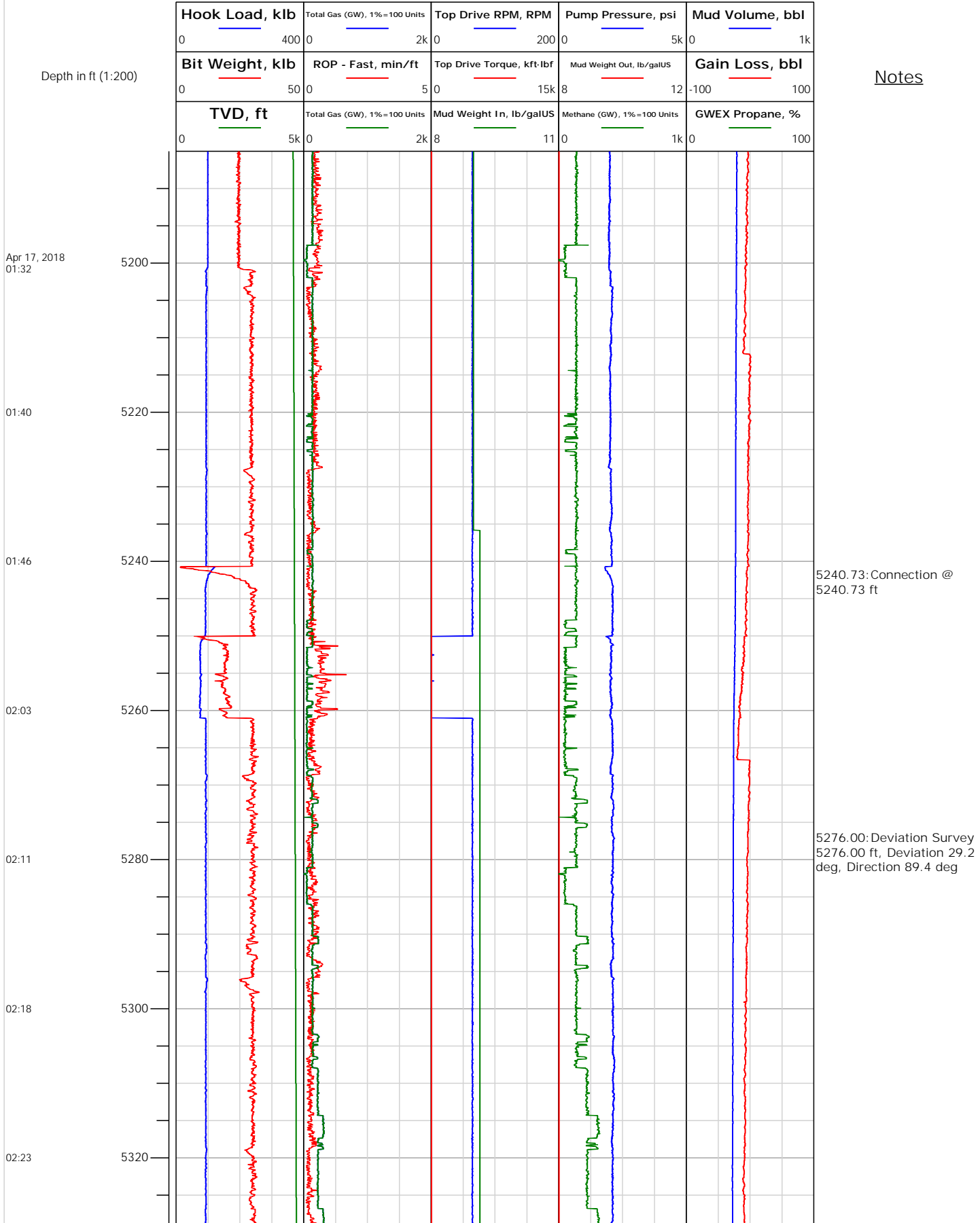
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**Rig:** 522

**Location:**

Notes





## Electronic Drilling Recorder

Operator: Laramie Energy  
Contractor: Helmerich & Payne Drlg Co

Well Name: GUNDERSON 0994-13-16E  
Rig: 522

Location:

## Notes

Depth in ft (1:200)

Apr 17, 2018  
02:33

02:39

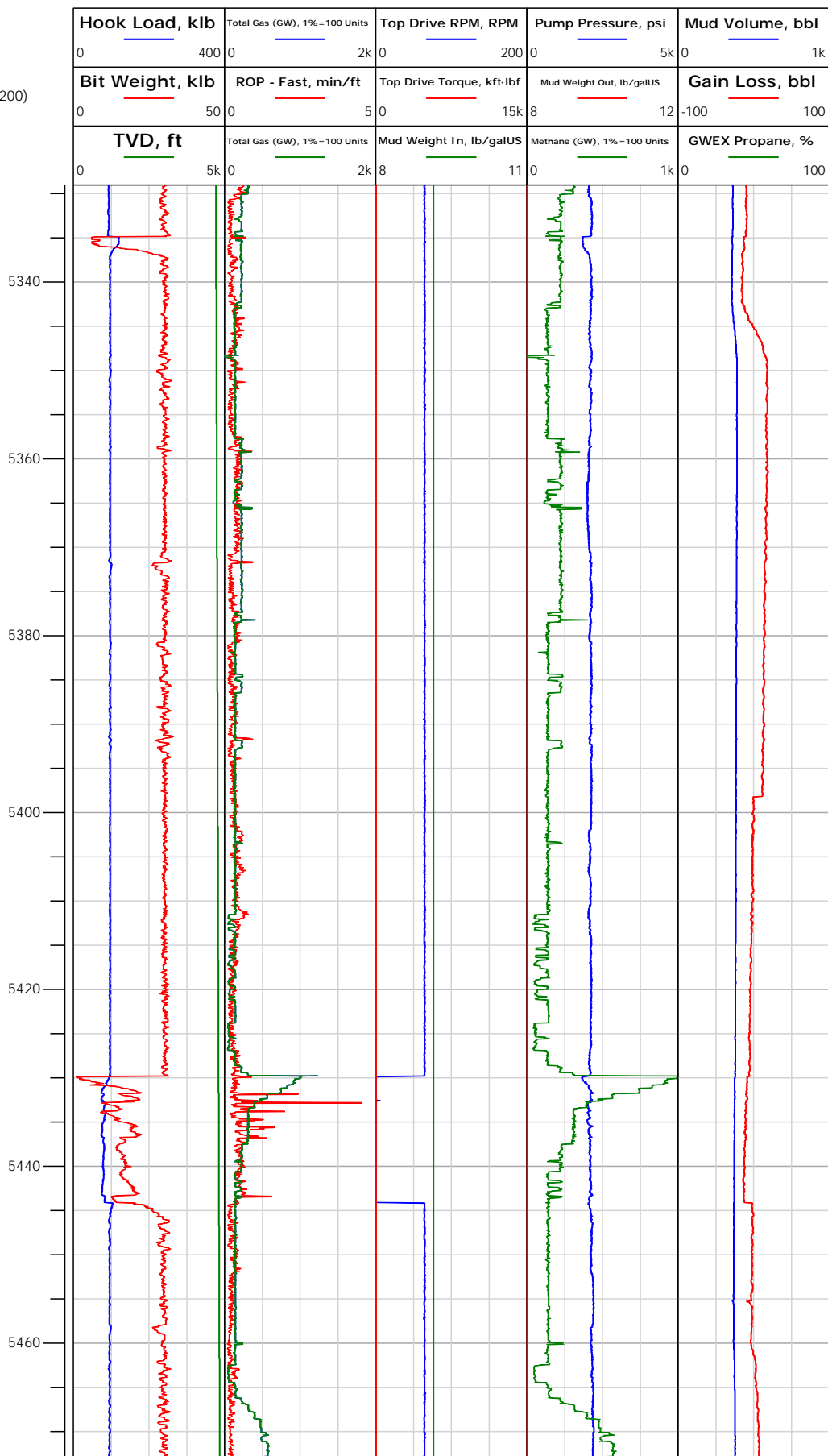
02:46

02:52

02:59

03:12

03:20



5334.84: Connection @  
5334.84 ft

5370.00: Deviation Survey  
5370.00 ft, Deviation 27.6  
deg, Direction 88.5 deg

5429.92: Connection @  
5429.92 ft

5464.00: Deviation Survey  
5464.00 ft, Deviation 26  
deg, Direction 90.6 deg



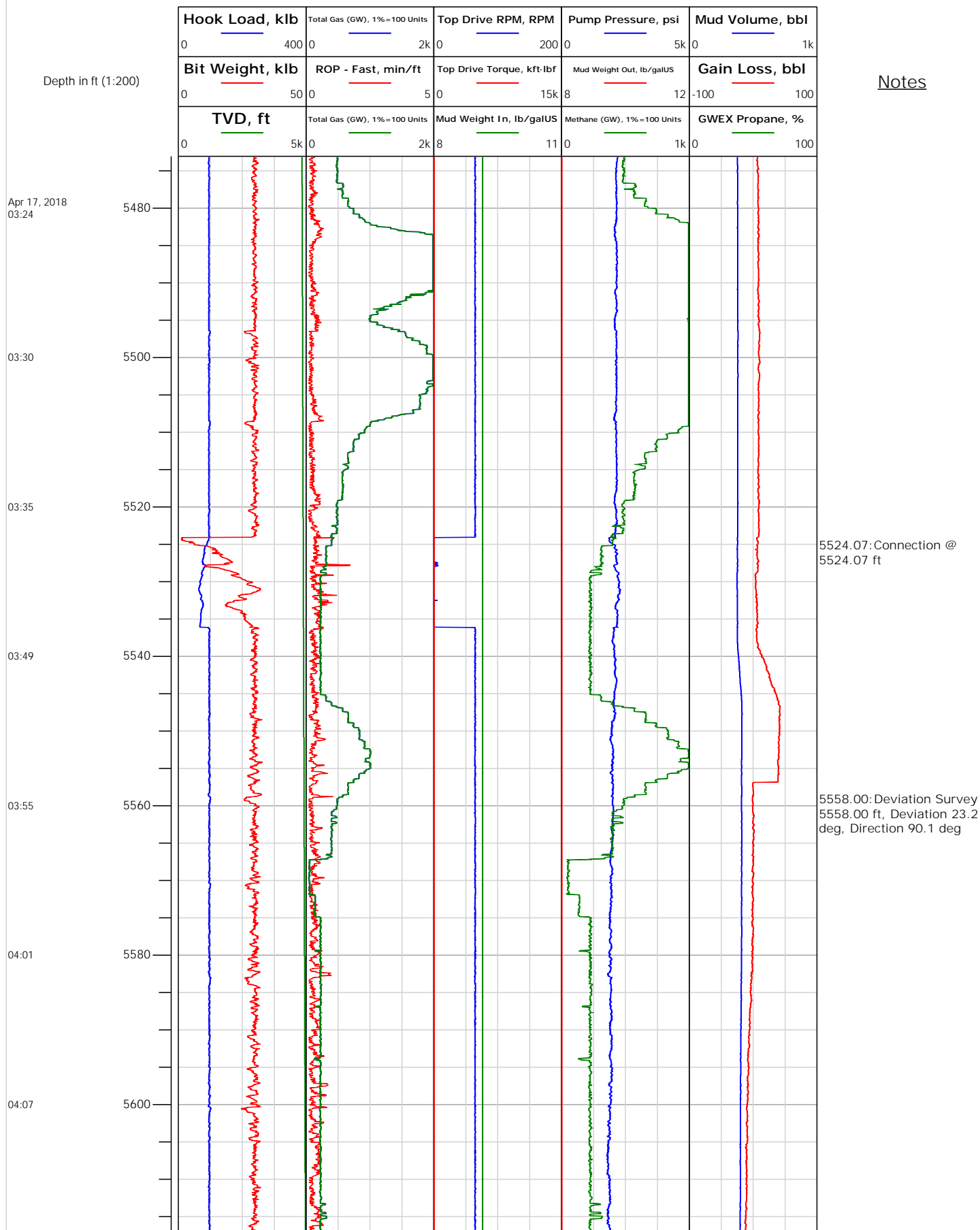
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**Rig:** 522

**Location:**

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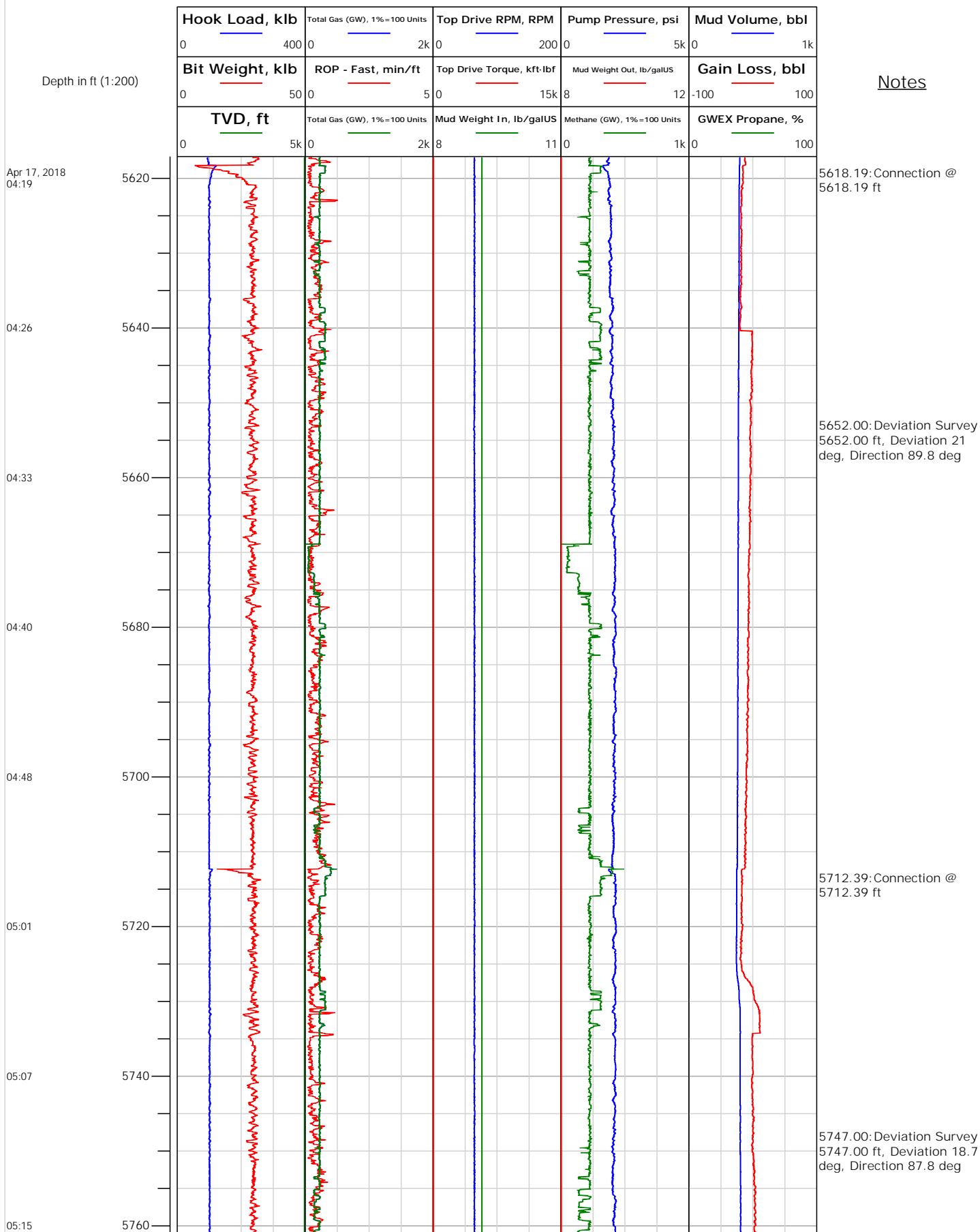
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**Rig:** 522

**Location:**

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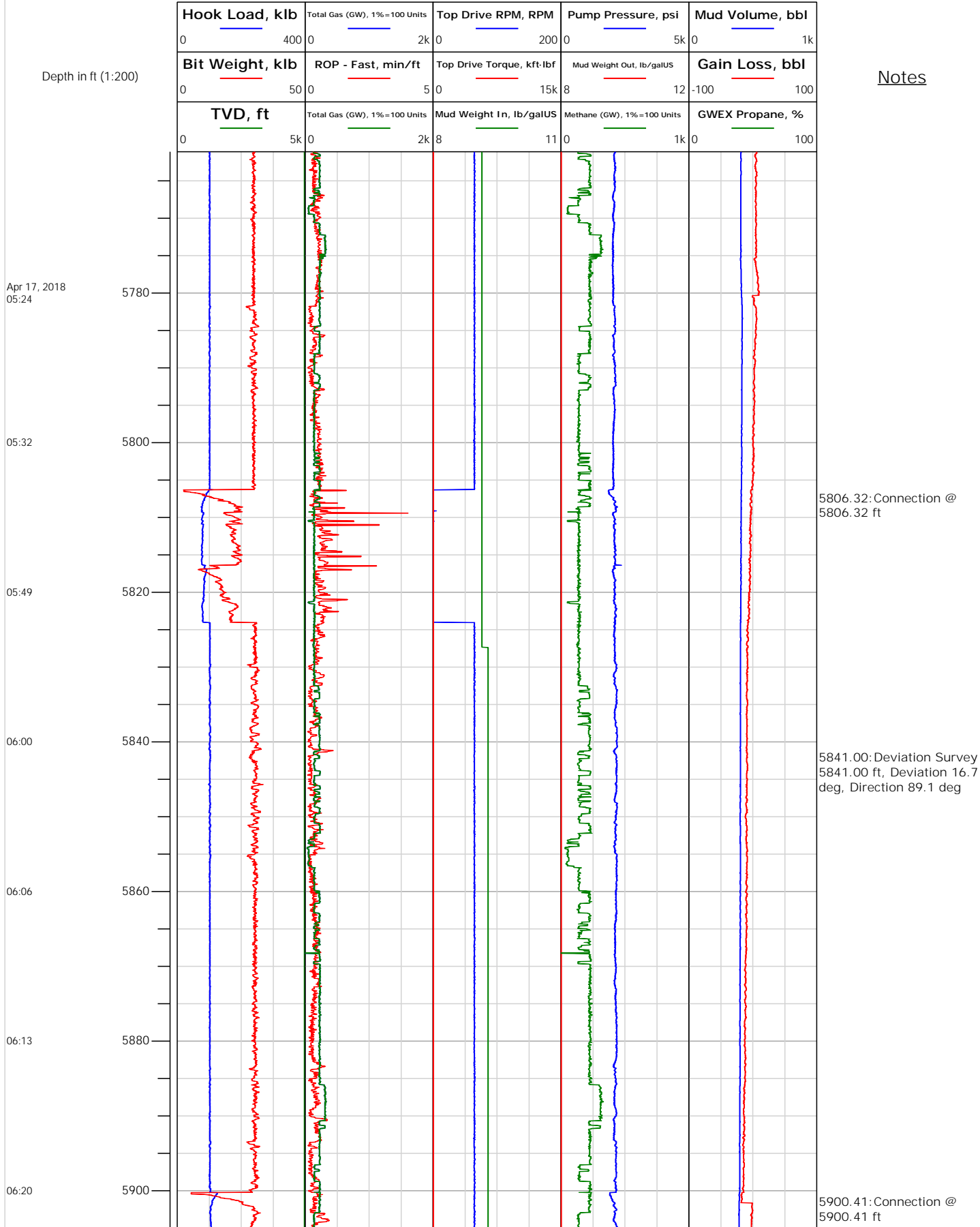
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**Rig:** 522

**Location:**

Notes





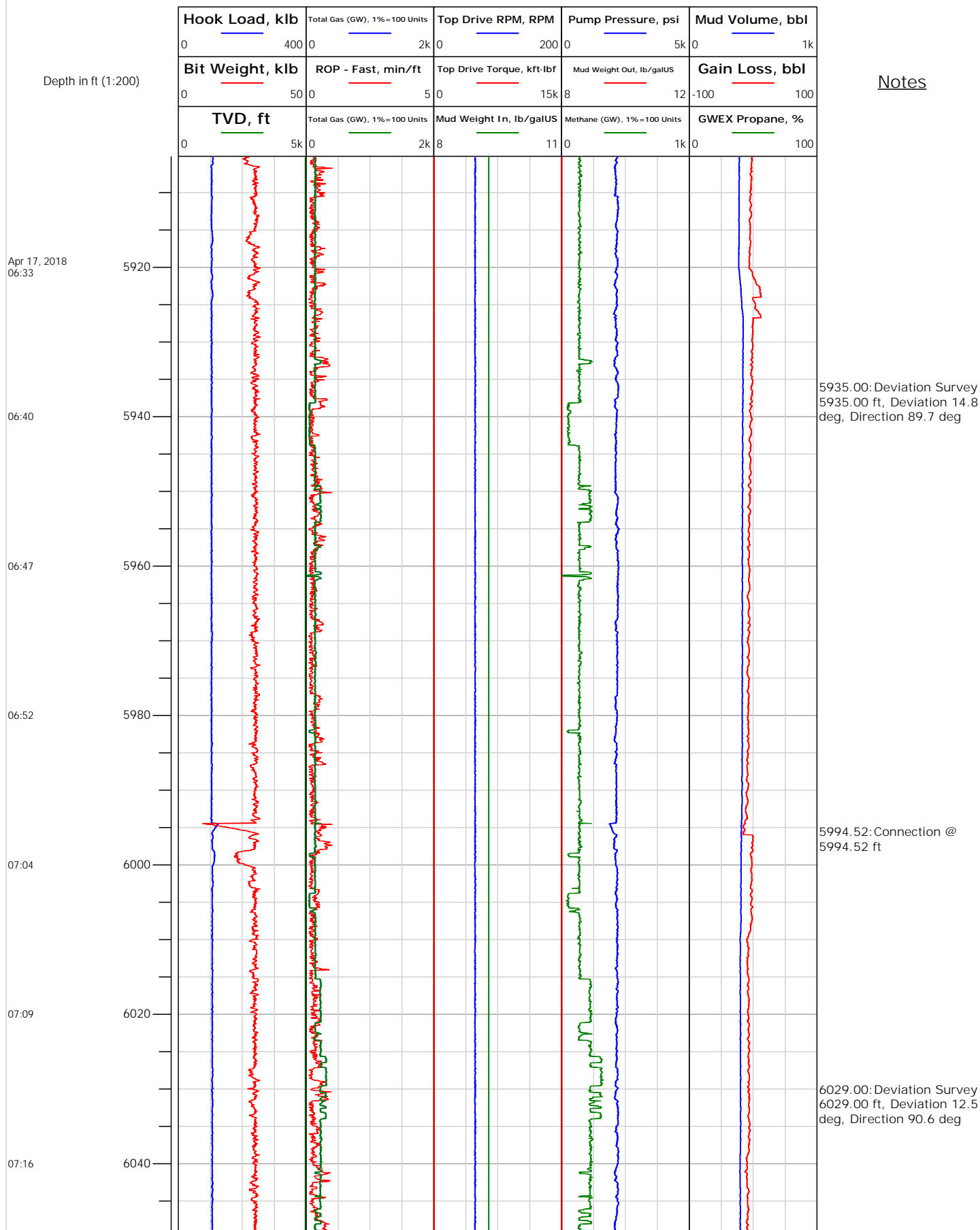
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Location:

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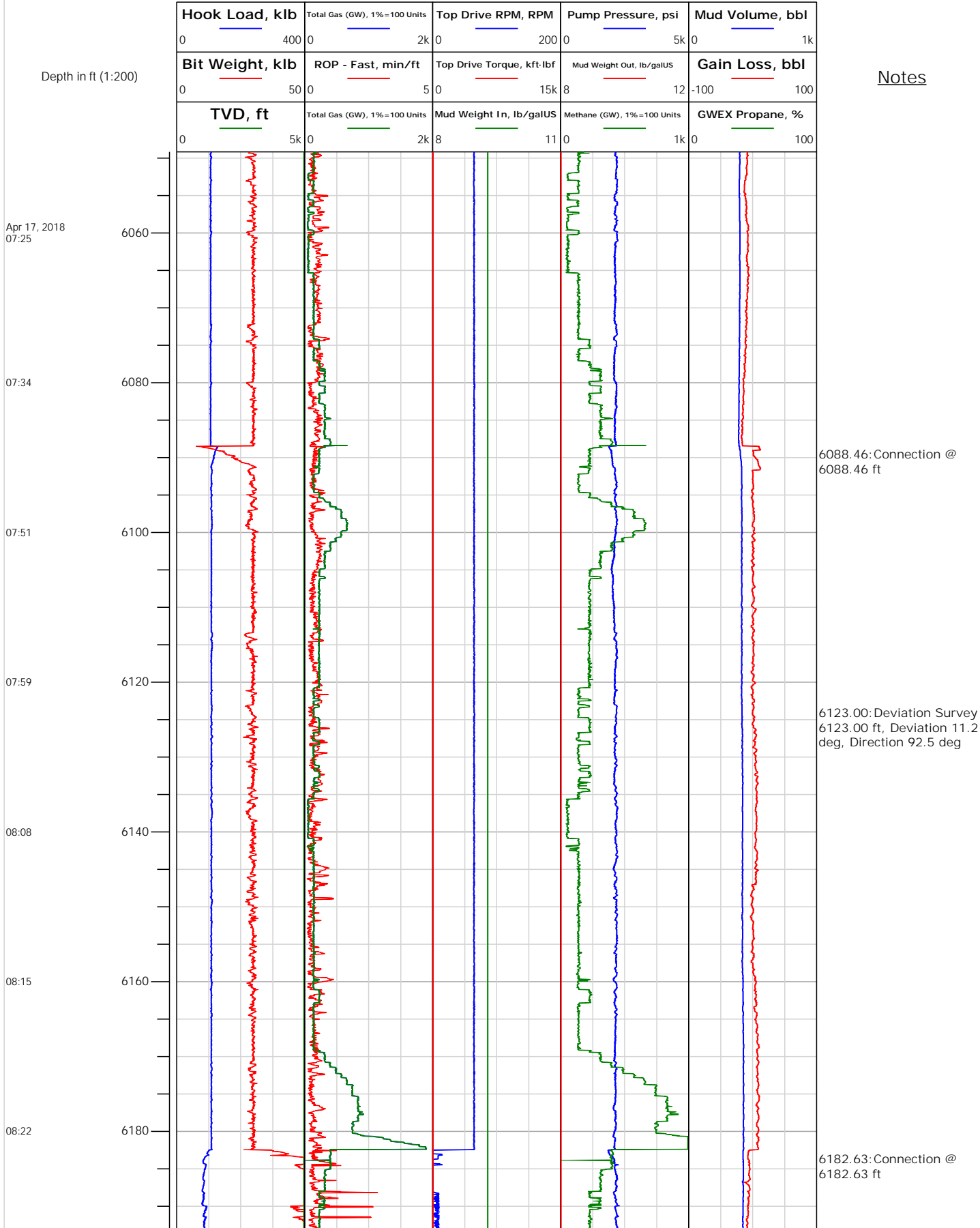
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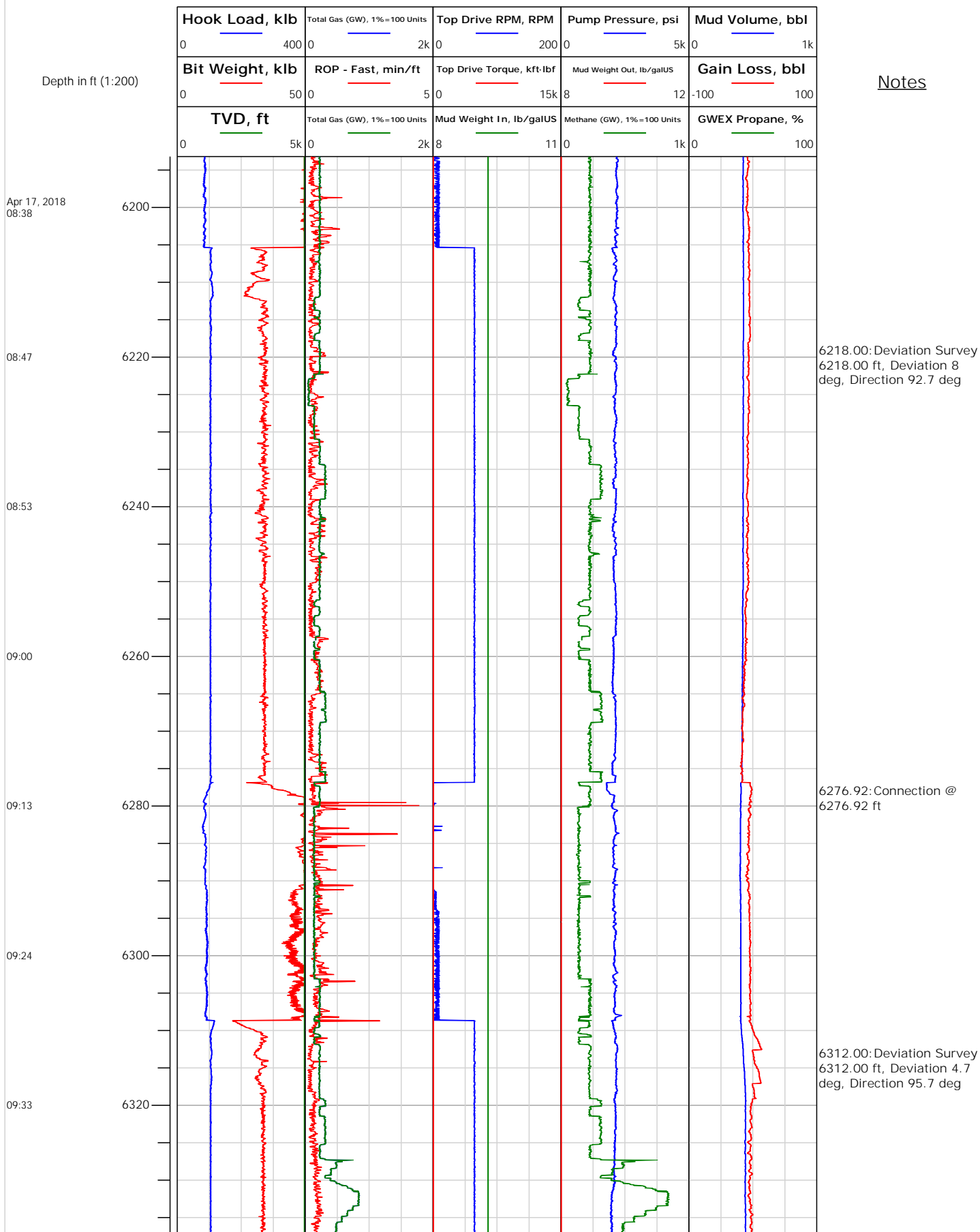
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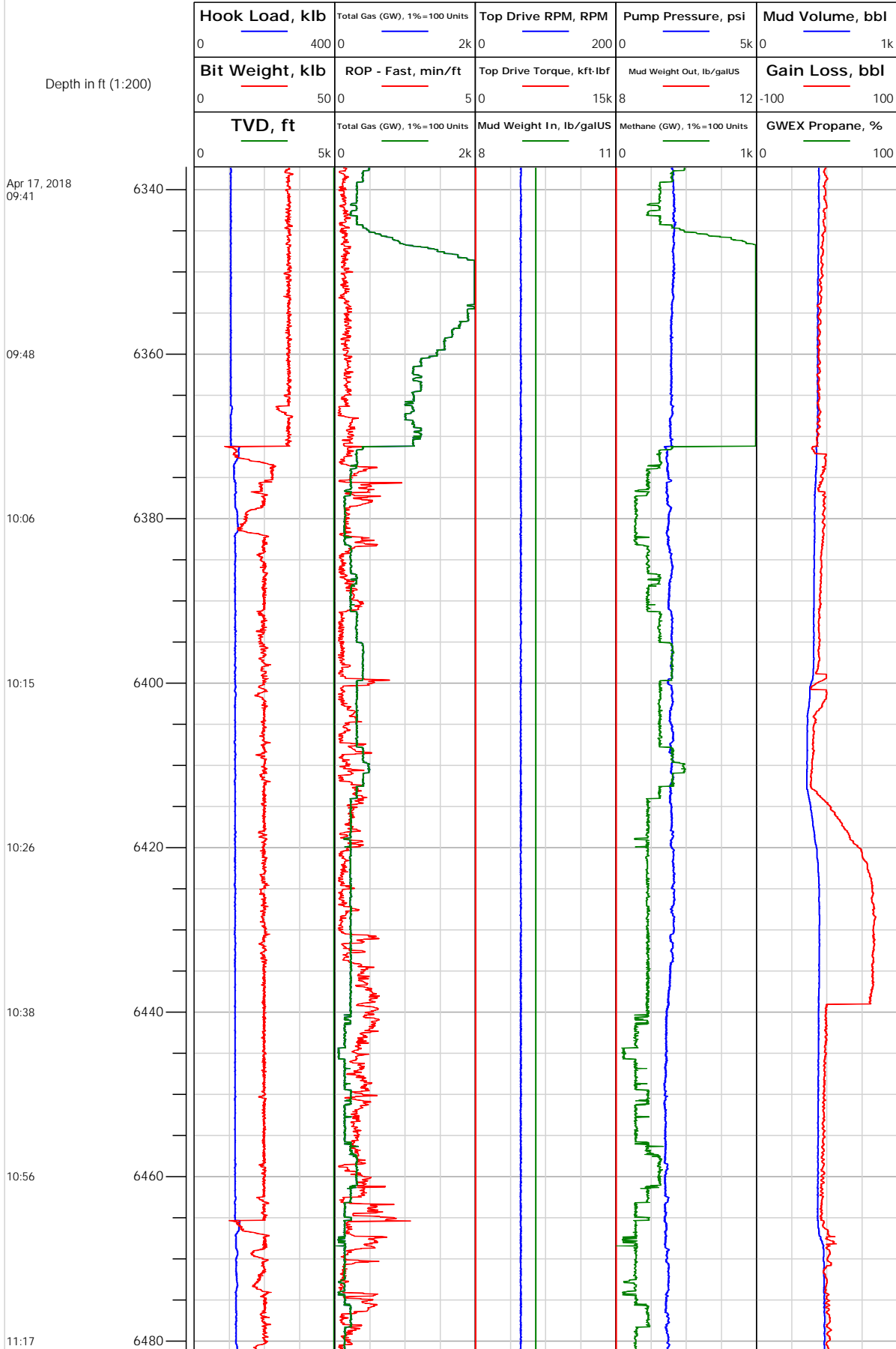
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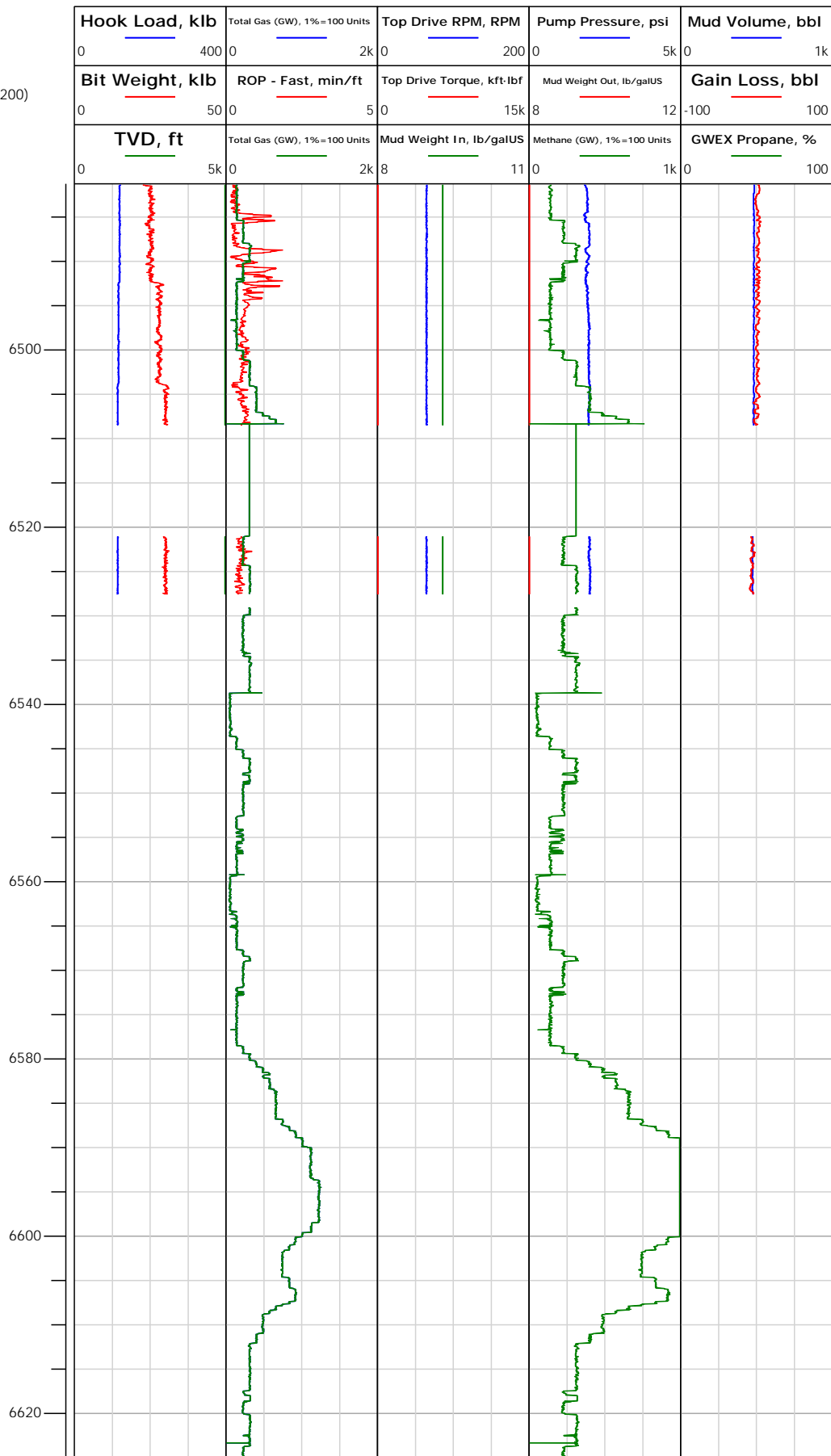
**Well Name:** GUNDERSON 0994-13-16E  
**Rig:** 522

**Location:**

## Notes

Depth in ft (1:200)

Apr 17, 2018  
 11:29



6500.00: Deviation Survey  
 6500.00 ft, Deviation 2.8  
 deg, Direction 95.5 deg

6527.54: Rig Floor set Hole  
 Depth from 6523.42 ft to  
 6529.00 ft

6556.13: Rig Floor set Bit  
 Position from 6522.07 ft to  
 6520.00 ft  
 6556.13: Rig Floor set Hole  
 Depth from 6556.13 ft to  
 6521.00 ft  
 6559.27: Connection @  
 6559.27 ft

6595.00: Deviation Survey  
 6595.00 ft, Deviation 1.9  
 deg, Direction 94.2 deg



## Electronic Drilling Recorder

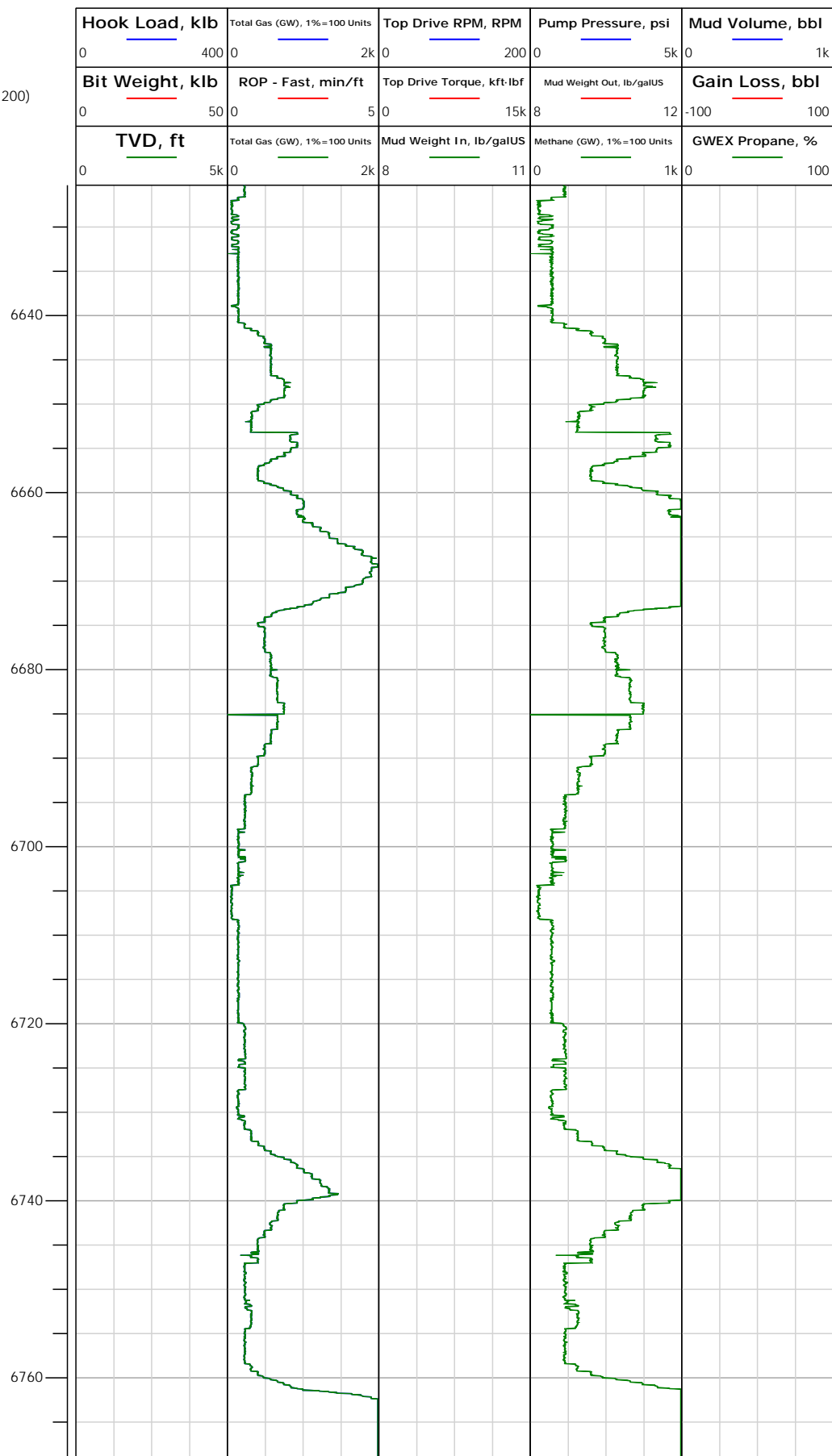
Operator: Laramie Energy  
Contractor: Helmerich & Payne Drlg Co

Well Name: GUNDERSON 0994-13-16E  
Rig: 522

Location:

Depth in ft (1:200)

Notes





## Electronic Drilling Recorder

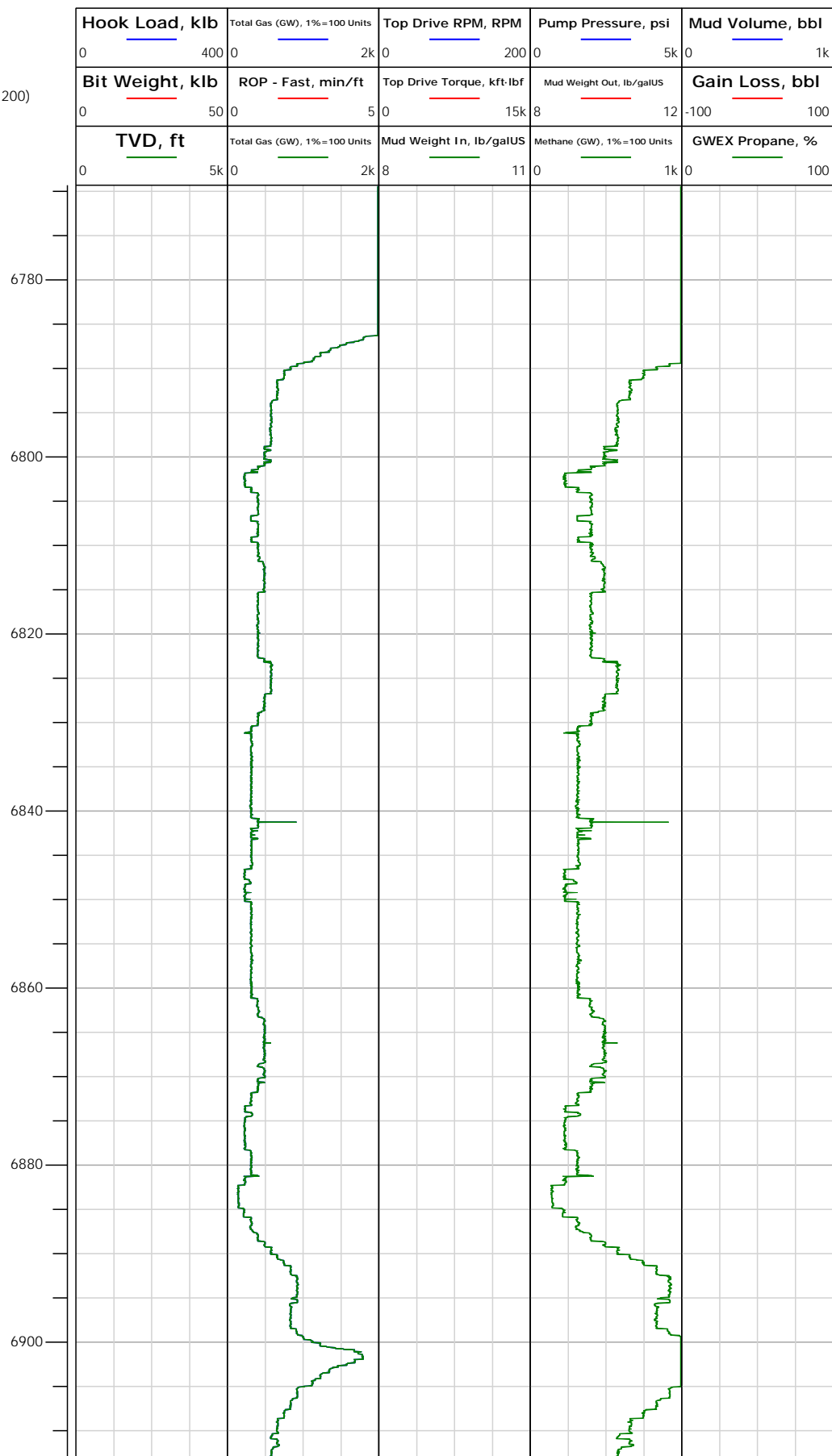
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Well Name: GUNDERSON 0994-13-16E  
Rig: 522

Location:

Depth in ft (1:200)

Notes





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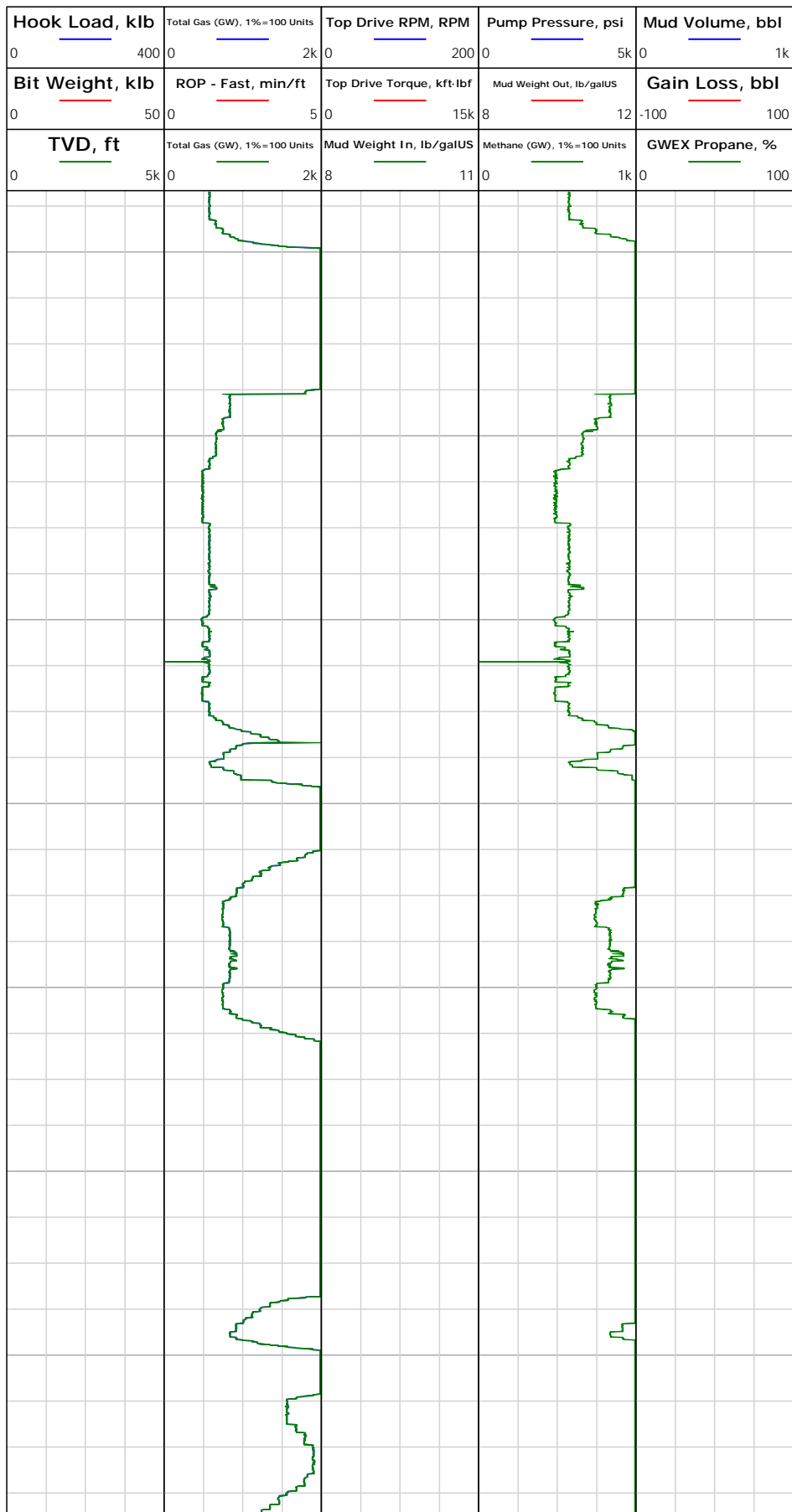
**Operator:** Laramie Energy  
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**Well Name:** GUNDERSON 0994-13-16E  
**Rig:** 522

**Location:**

## Notes

Depth in ft (1:200)



6935.45: Connection @  
6935.45 ft

6971.00: Deviation Survey  
6971.00 ft, Deviation 1.1  
deg, Direction 274.3 deg

7029.15: Connection @  
7029.15 ft



# Electronic Drilling Recorder

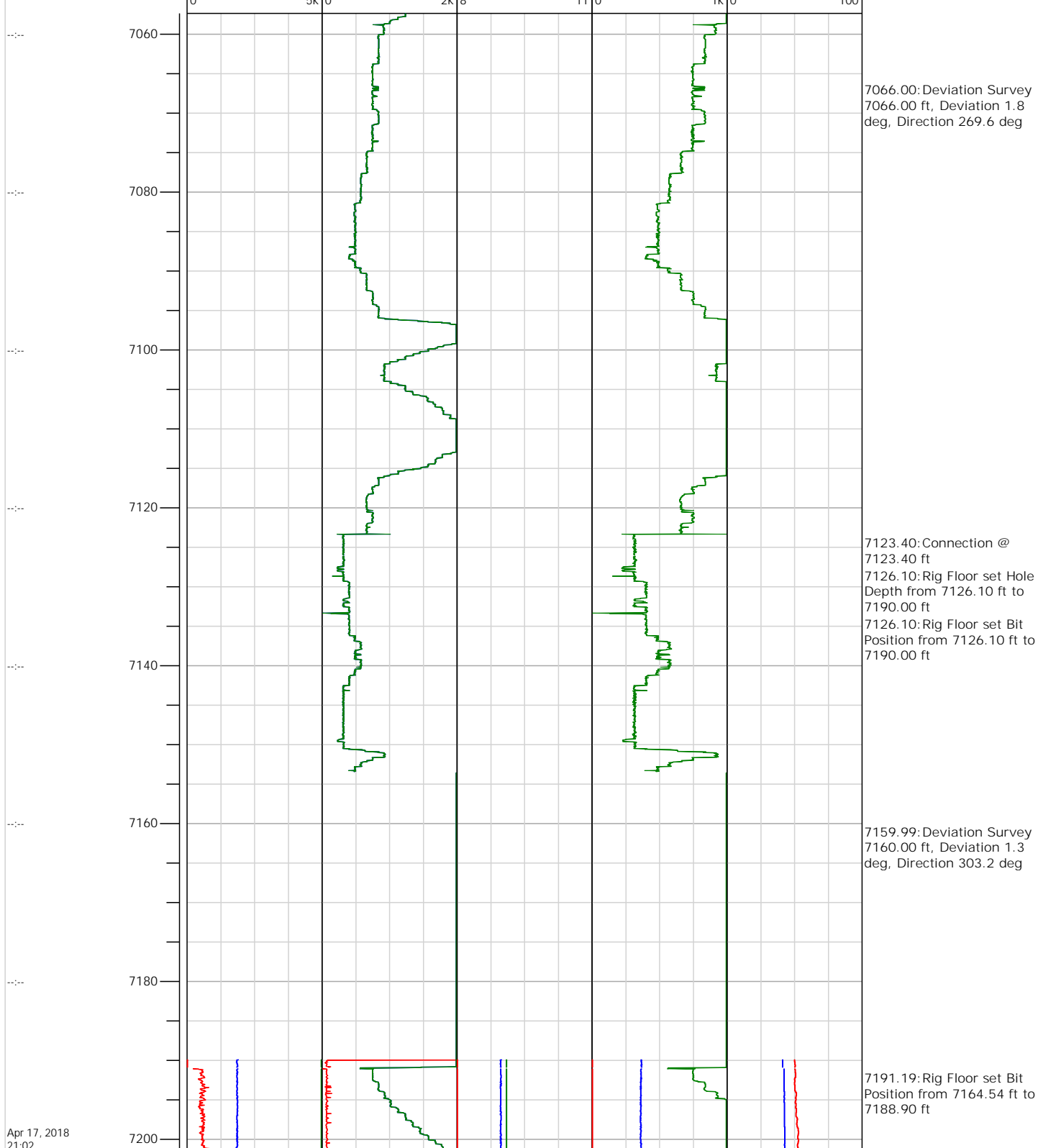
Operator: Laramie Energy  
Contractor: Helmerich & Payne Drlg Co

Well Name: GUNDERSON 0994-13-16E  
Rig: 522

Location:

Depth in ft (1:200)

Notes



Apr 17, 2018  
21:02





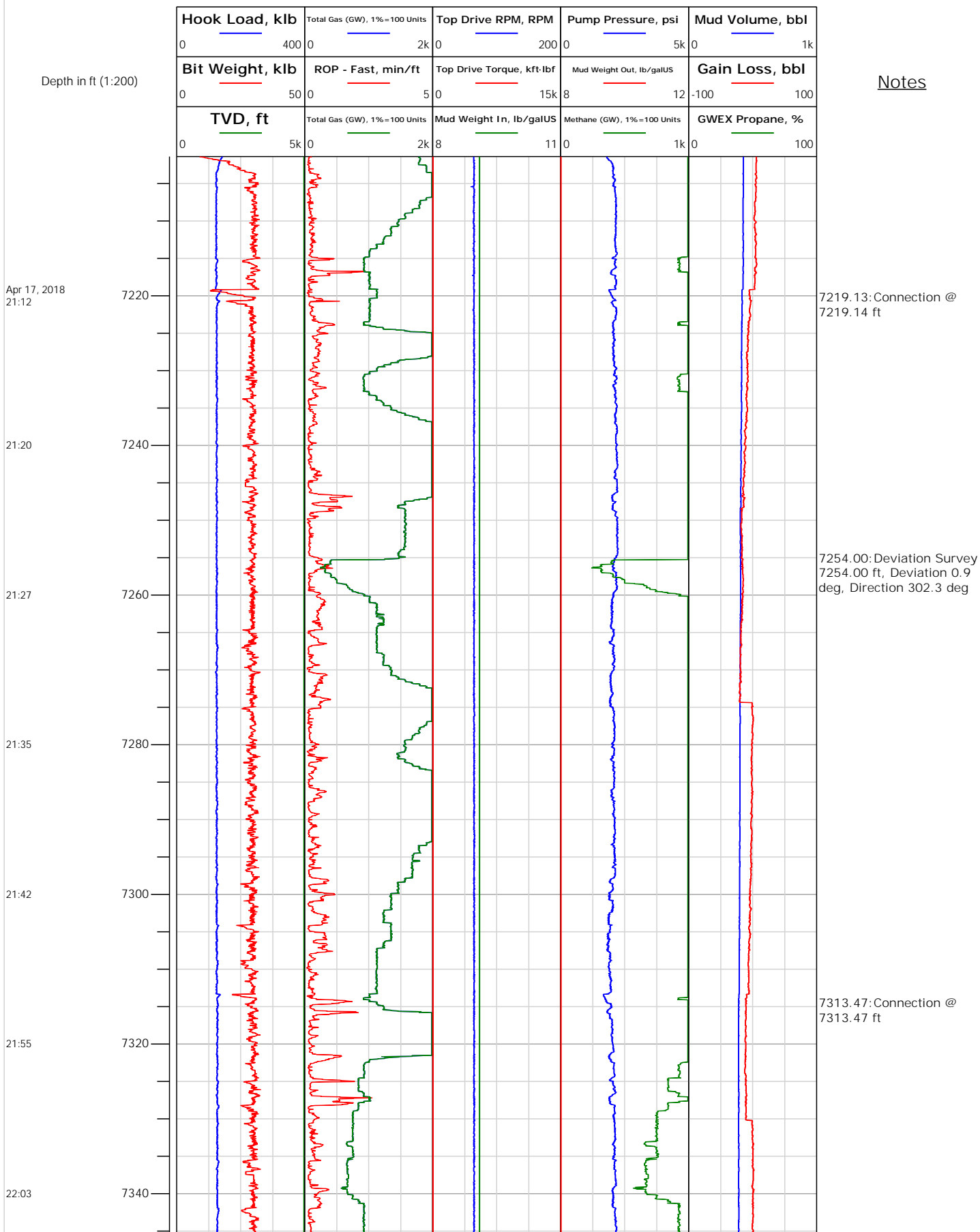
# Electronic Drilling Recorder

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

**Well Name:** GUNDERSON 0994-13-16E  
**Rig:** 522

**Location:**

## Notes





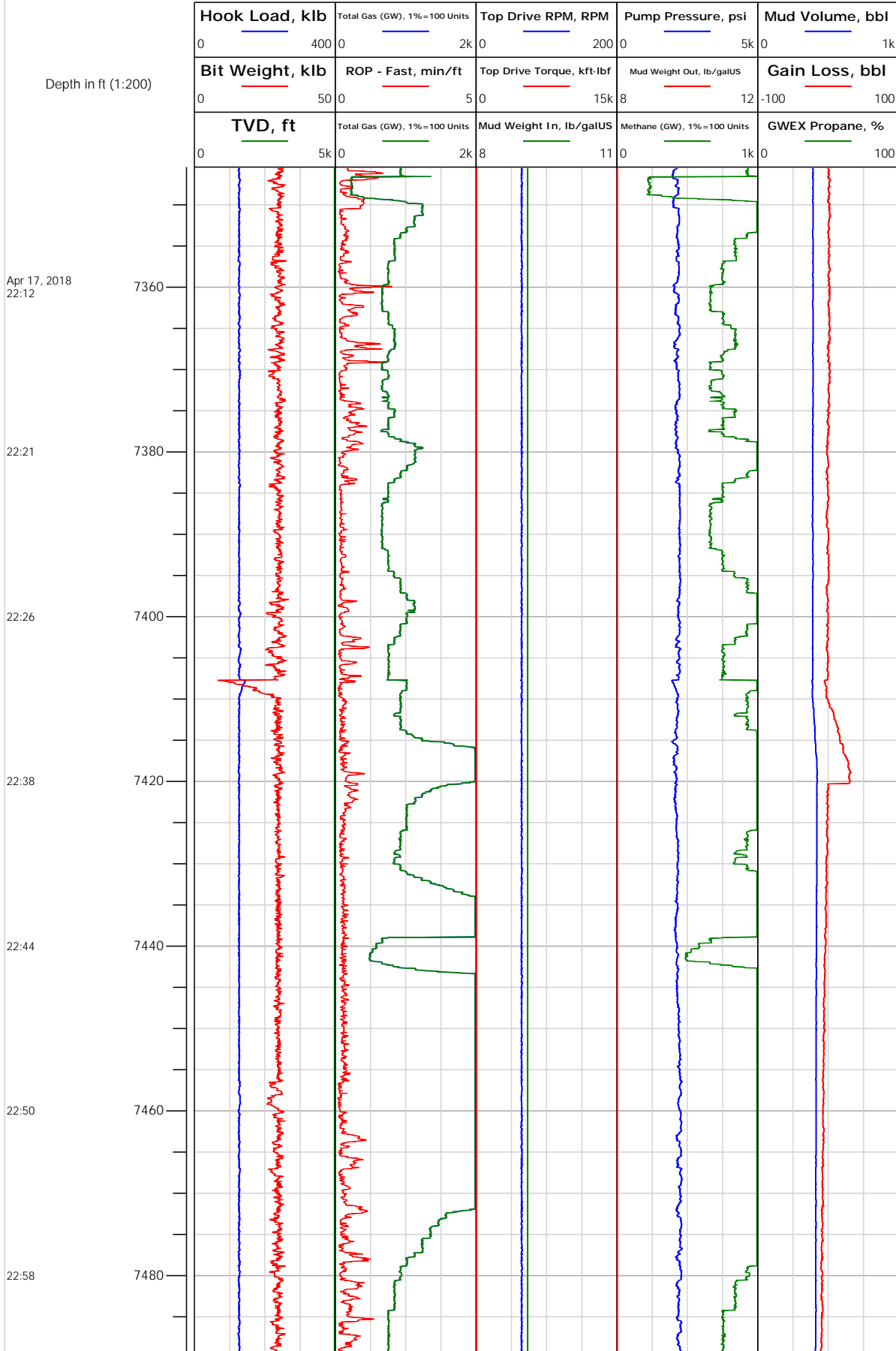
# Electronic Drilling Recorder

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

**Well Name:** GUNDERSON 0994-13-16E  
**Rig:** 522

**Location:**

## Notes



7348.00: Deviation Survey  
7348.00 ft, Deviation 1.2 deg, Direction 277.6 deg

7407.72: Connection @  
7407.73 ft

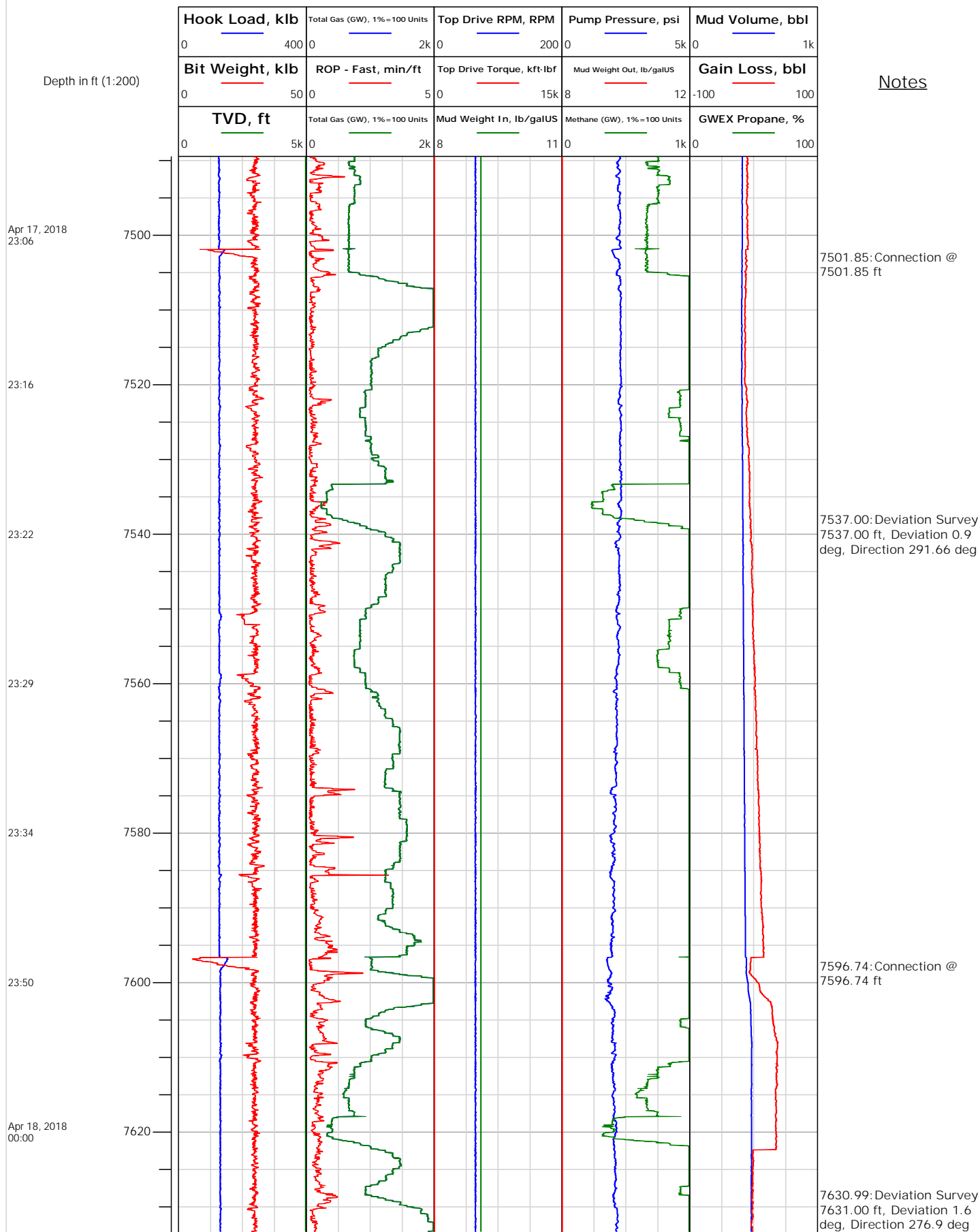
7442.00: Deviation Survey  
7442.00 ft, Deviation 1.2 deg, Direction 268.1 deg

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

**Well Name:** GUNDERSON 0994-13-16E  
**Rig:** 522

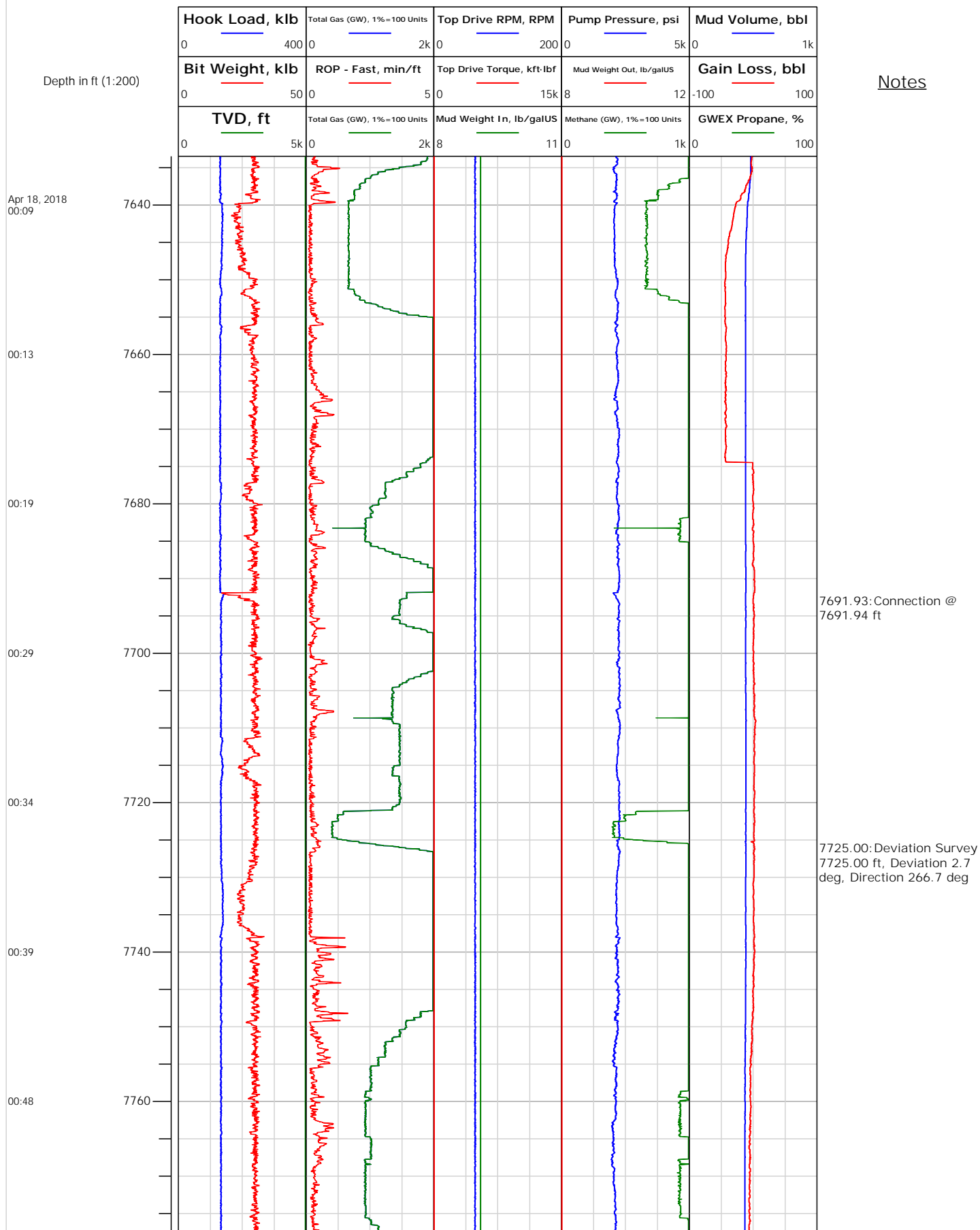
Depth in ft (1:200)

## Notes



**Location:**

# Electronic Drilling Recorder





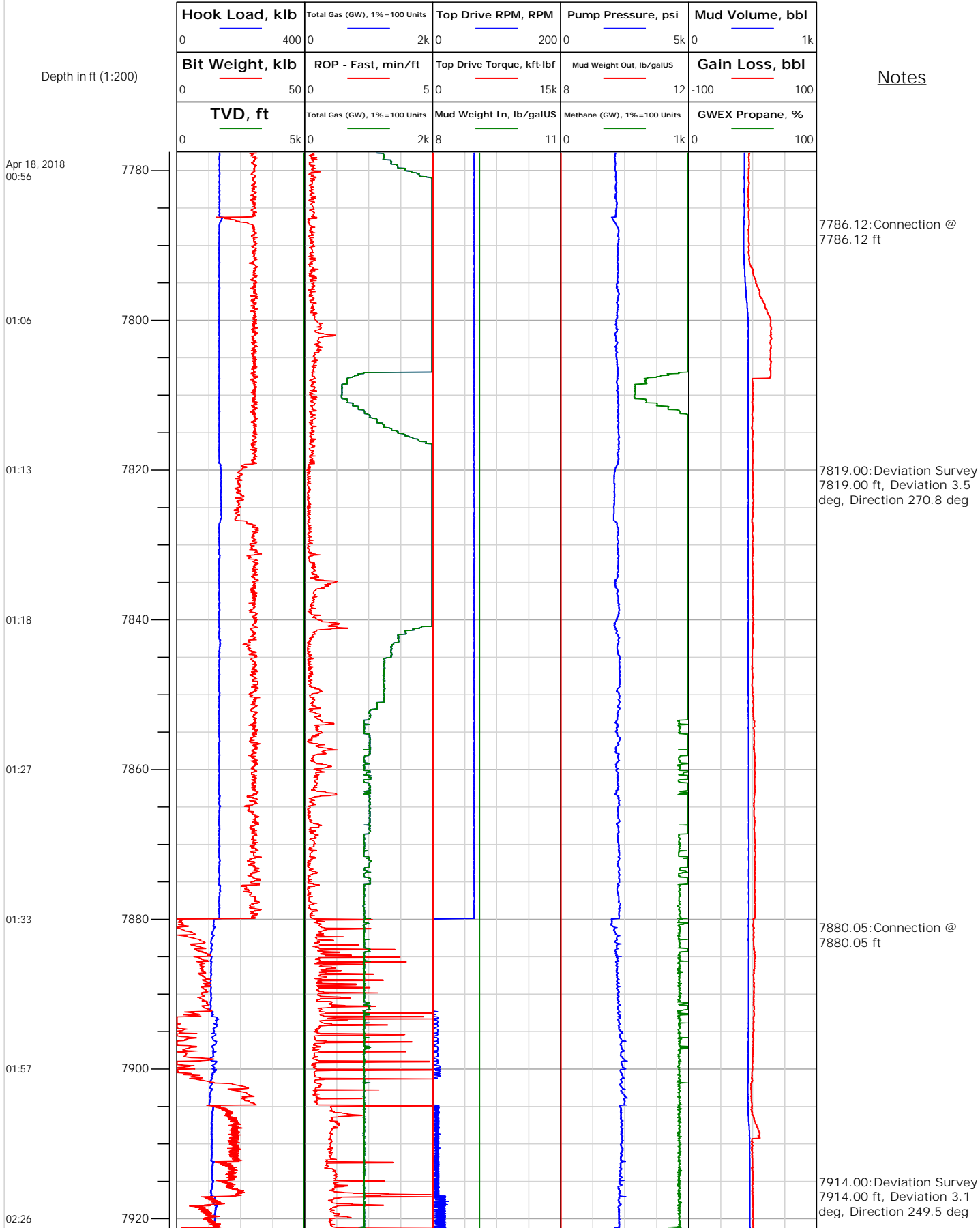
# Electronic Drilling Recorder

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

**Well Name:** GUNDERSON 0994-13-16E  
**Rig:** 522

**Location:**

## Notes





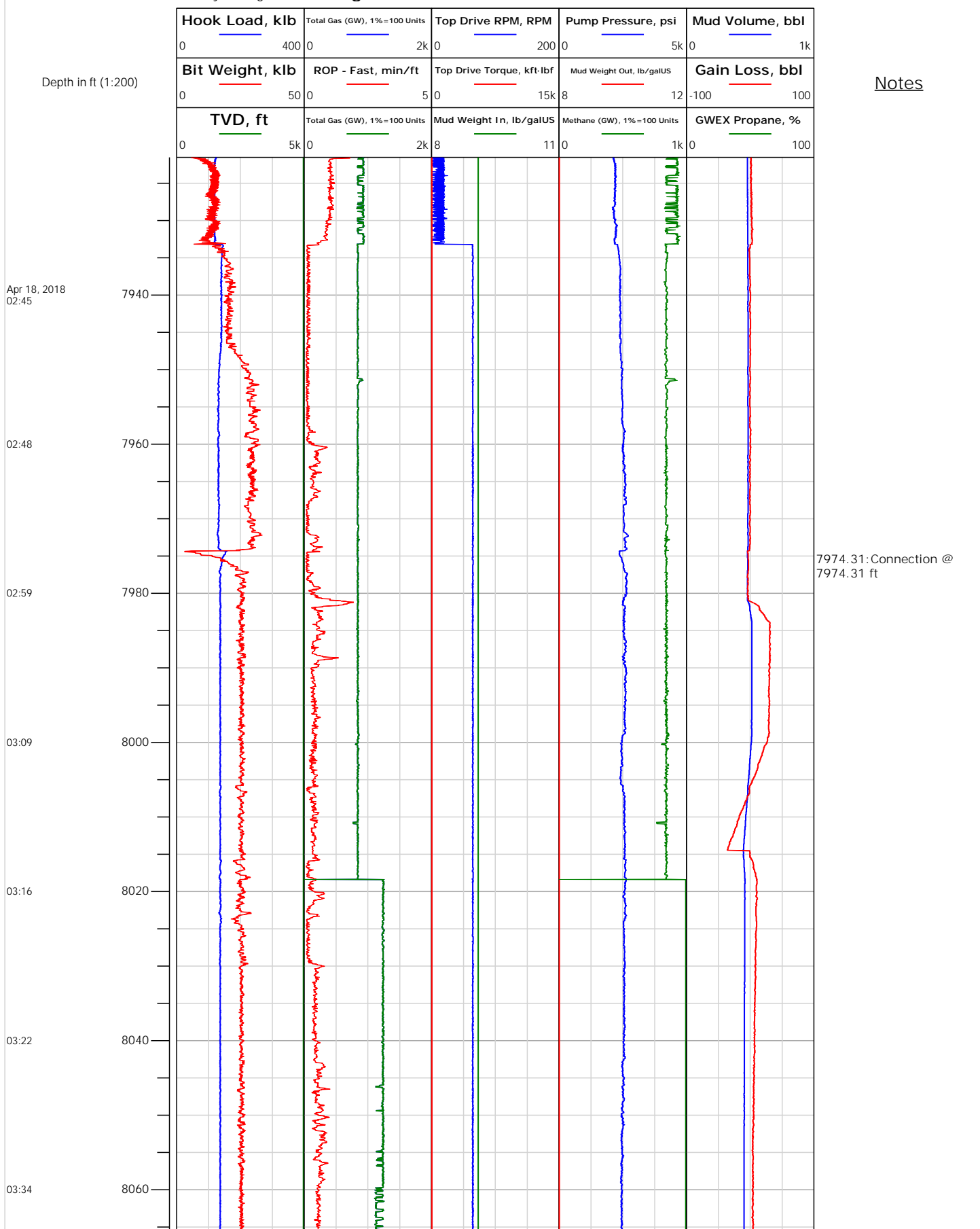
# Electronic Drilling Recorder

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

**Well Name:** GUNDERSON 0994-13-16E  
**Rig:** 522

**Location:**

Notes





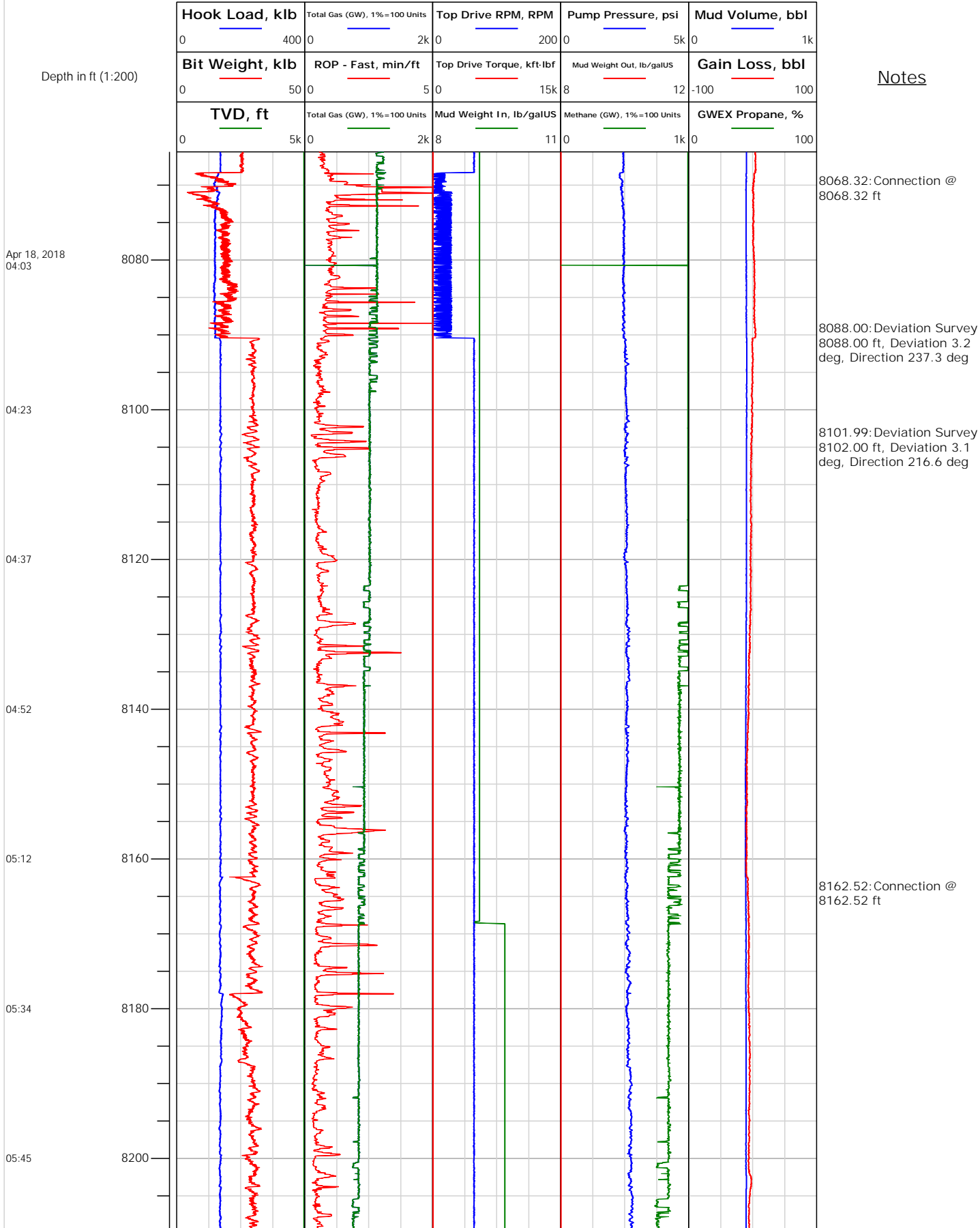
# Electronic Drilling Recorder

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

**Well Name:** GUNDERSON 0994-13-16E  
**Rig:** 522

**Location:**

## Notes





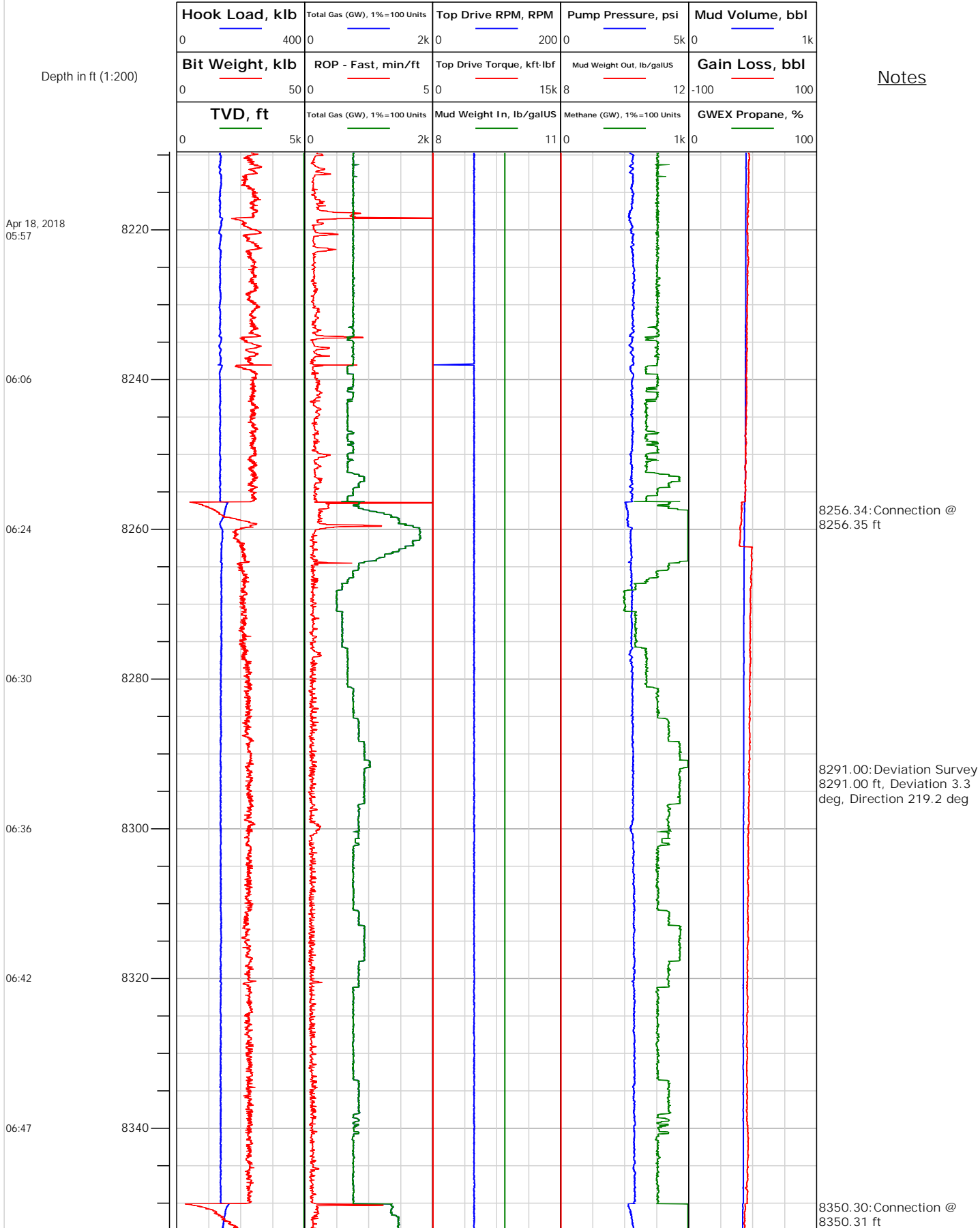
# Electronic Drilling Recorder

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

**Well Name:** GUNDERSON 0994-13-16E  
**Rig:** 522

**Location:**

Notes







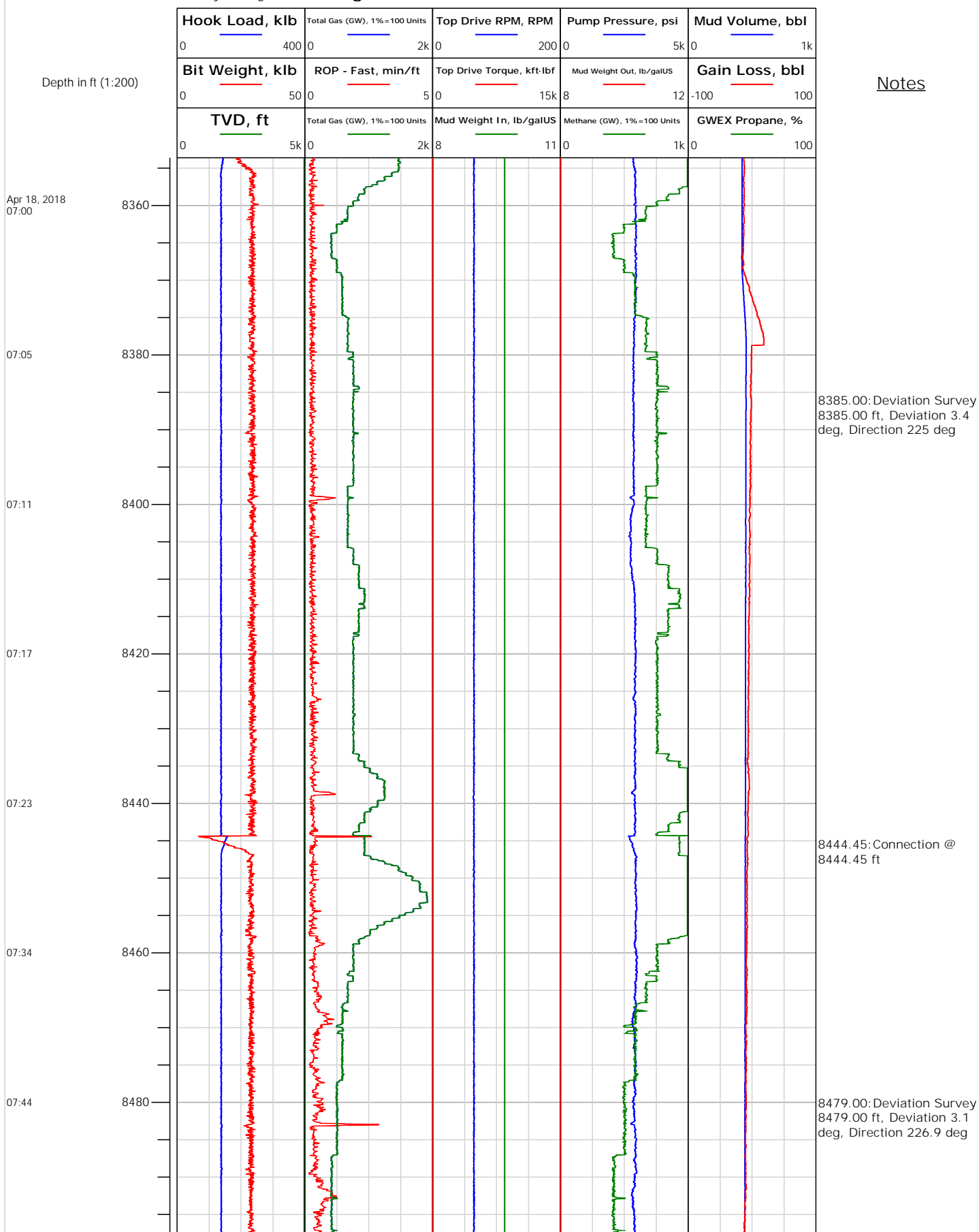
# Electronic Drilling Recorder

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

**Well Name:** GUNDERSON 0994-13-16E  
**Rig:** 522

**Location:**

## Notes





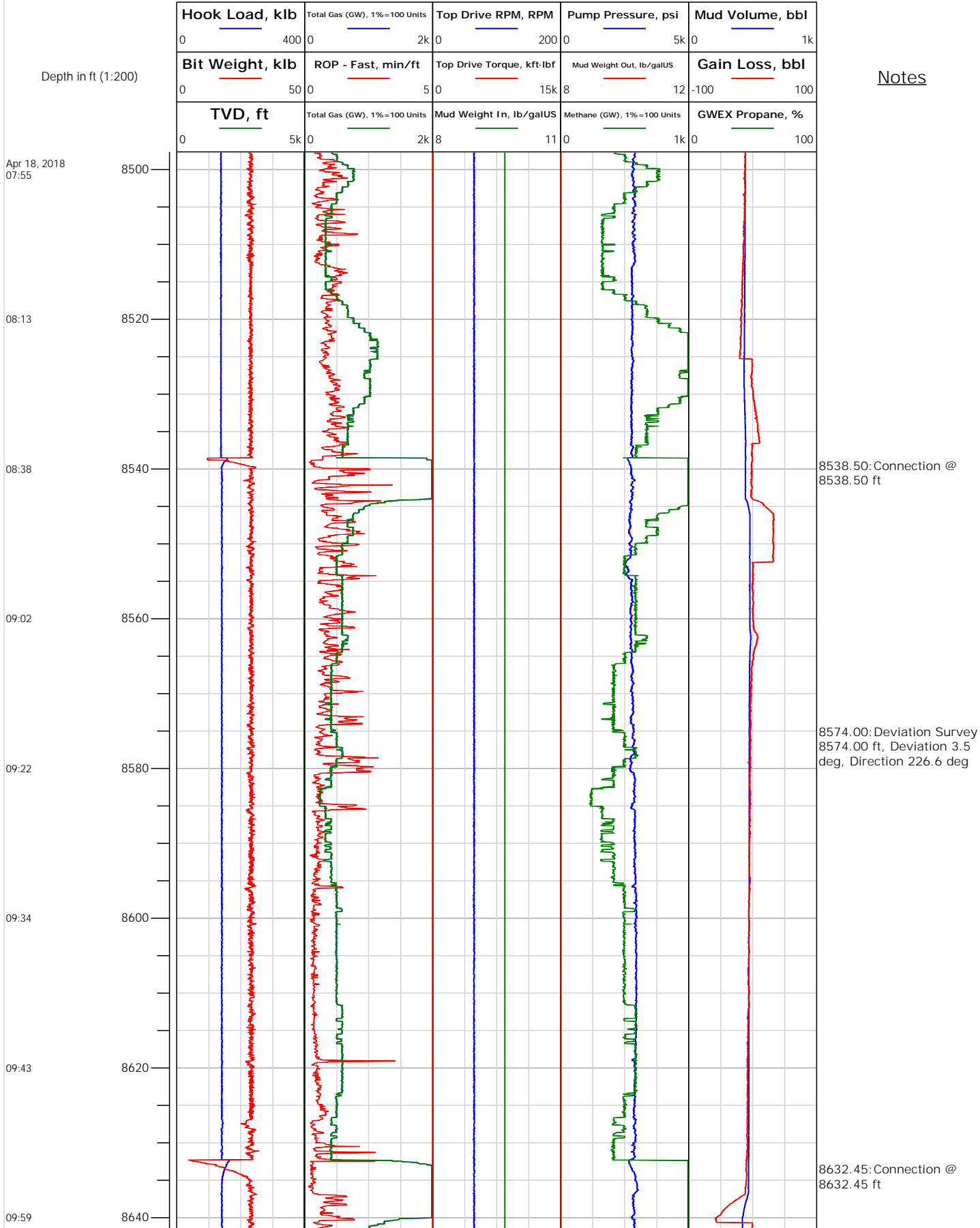
# Electronic Drilling Recorder

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

**Well Name:** GUNDERSON 0994-13-16E  
**Rig:** 522

**Location:**

Notes





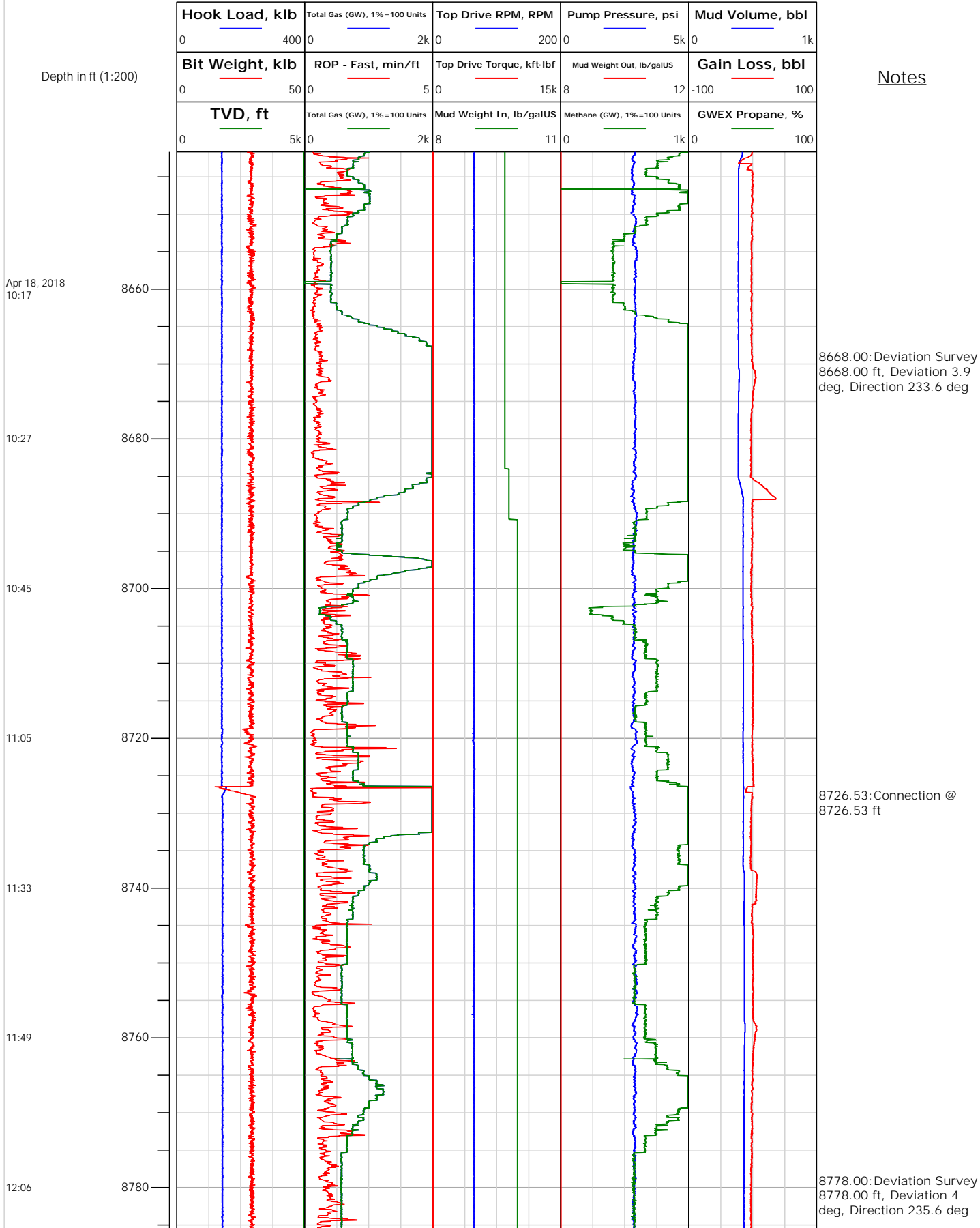
# Electronic Drilling Recorder

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

**Well Name:** GUNDERSON 0994-13-16E  
**Rig:** 522

**Location:**

Notes





# Electronic Drilling Recorder

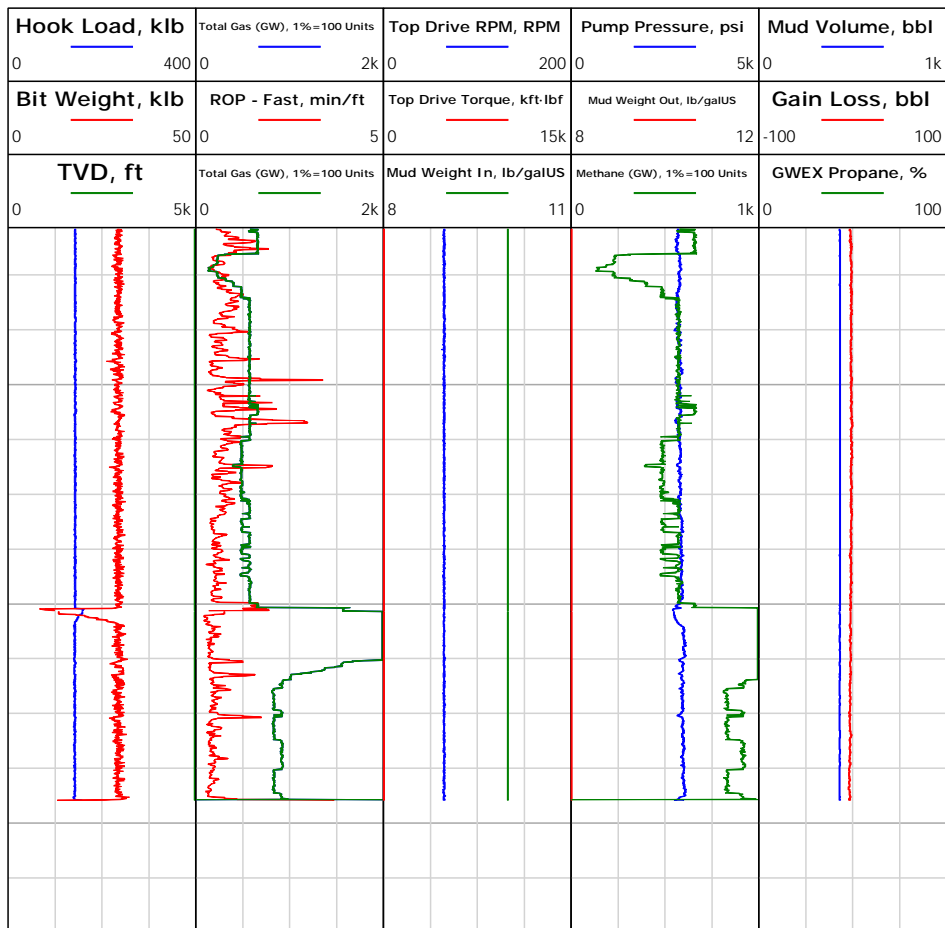
**Operator:** Laramie Energy  
**Contractor:** Helmerich & Payne Drlg Co

**Well Name:** GUNDERSON 0994-13-16E  
**Rig:** 522

**Location:**

## Notes

Depth in ft (1:200)



Apr 18, 2018  
12:23

12:38

Apr 19, 2018  
05:35

8820.51: Connection @  
8820.52 ft  
8821.71: Rig Floor set Hole  
Depth from 8821.71 ft to  
8820.71 ft  
8821.78: Rig Floor set Hole  
Depth from 8821.79 ft to  
8821.71 ft  
8838.04: Rig Floor set Bit  
Position from 8833.04 ft to  
8828.00 ft  
8838.04: Rig Floor set Bit  
Position from 5855.97 ft to  
6032.00 ft  
8838.04: Rig Floor set Bit  
Position from 247.20 ft to  
2915.00 ft