



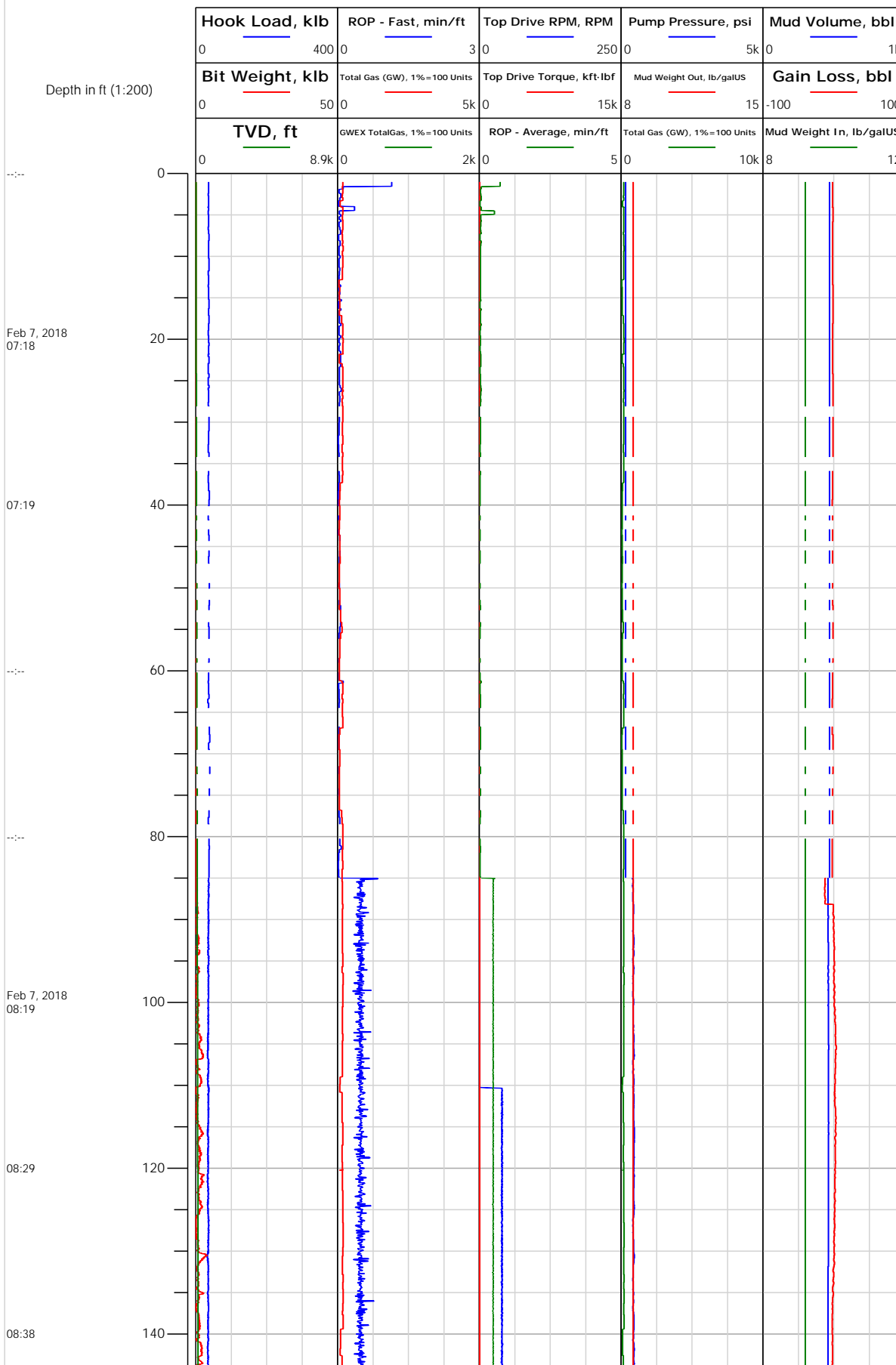
# Electronic Drilling Recorder

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

**Well Name:** Nichols 0994-13-18E  
**Rig:** 290

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

## Notes





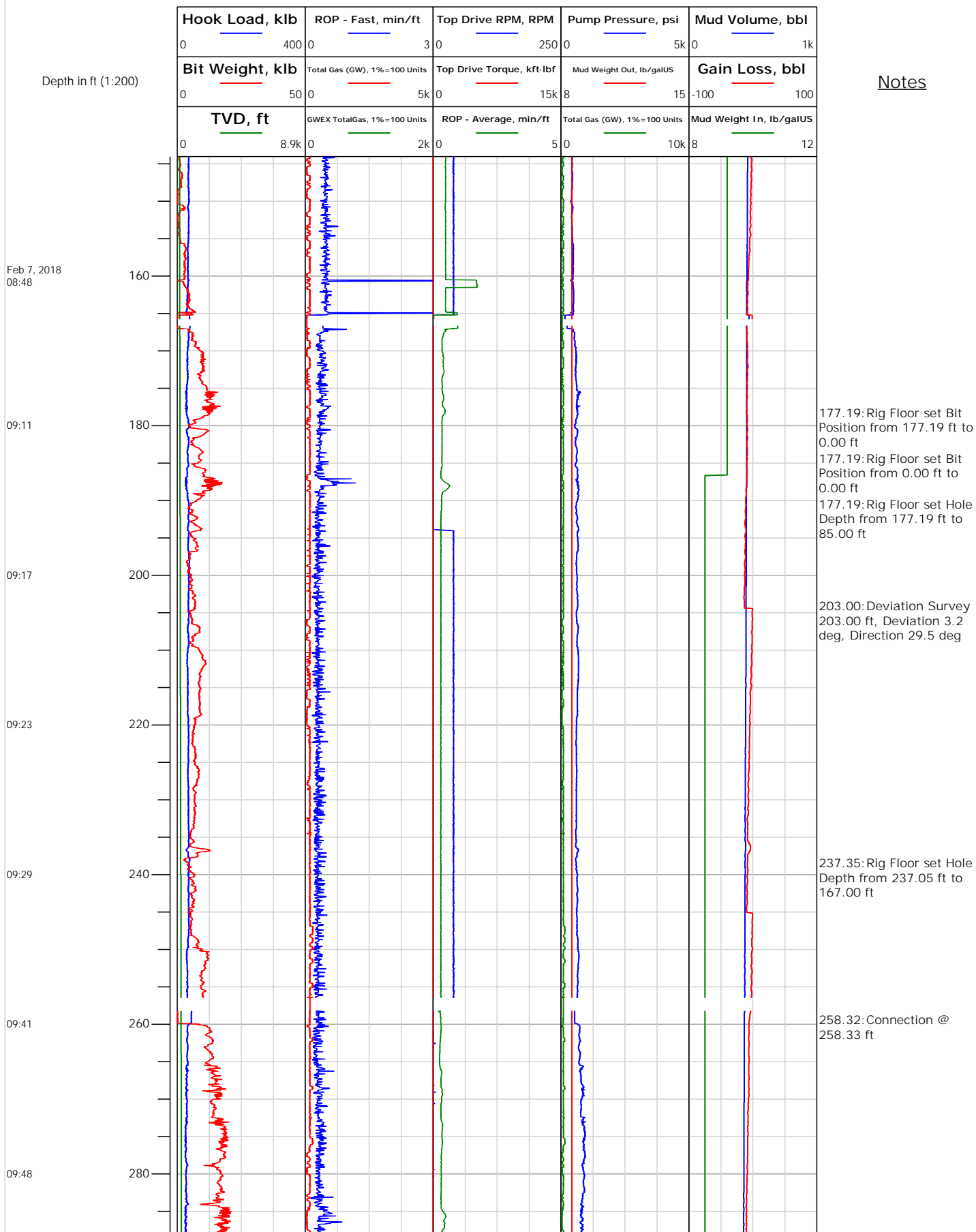
# Electronic Drilling Recorder

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

**Well Name:** Nichols 0994-13-18E  
**Rig:** 290

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

## Notes





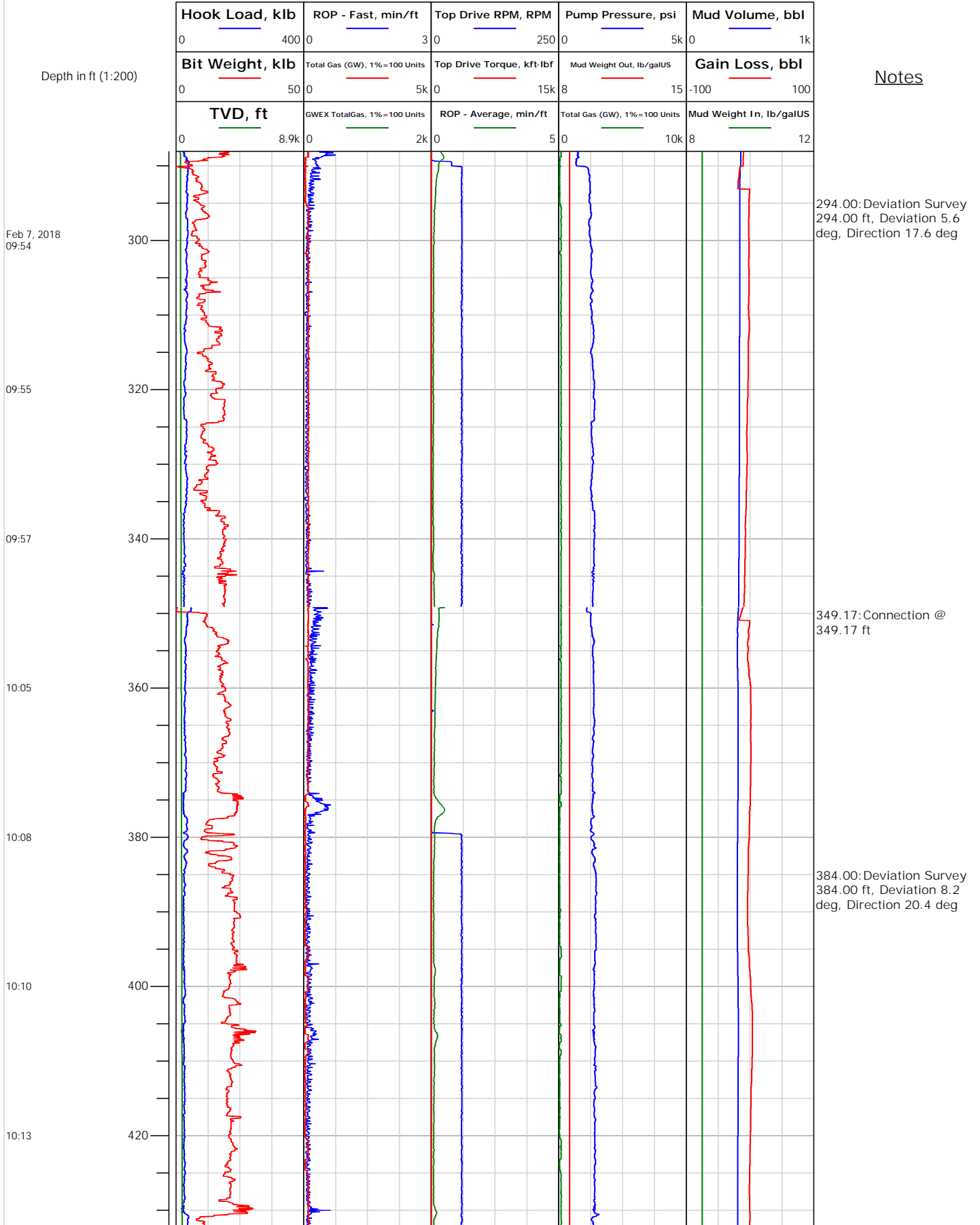
# Electronic Drilling Recorder

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

**Well Name:** Nichols 0994-13-18E  
**Rig:** 290

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

## Notes





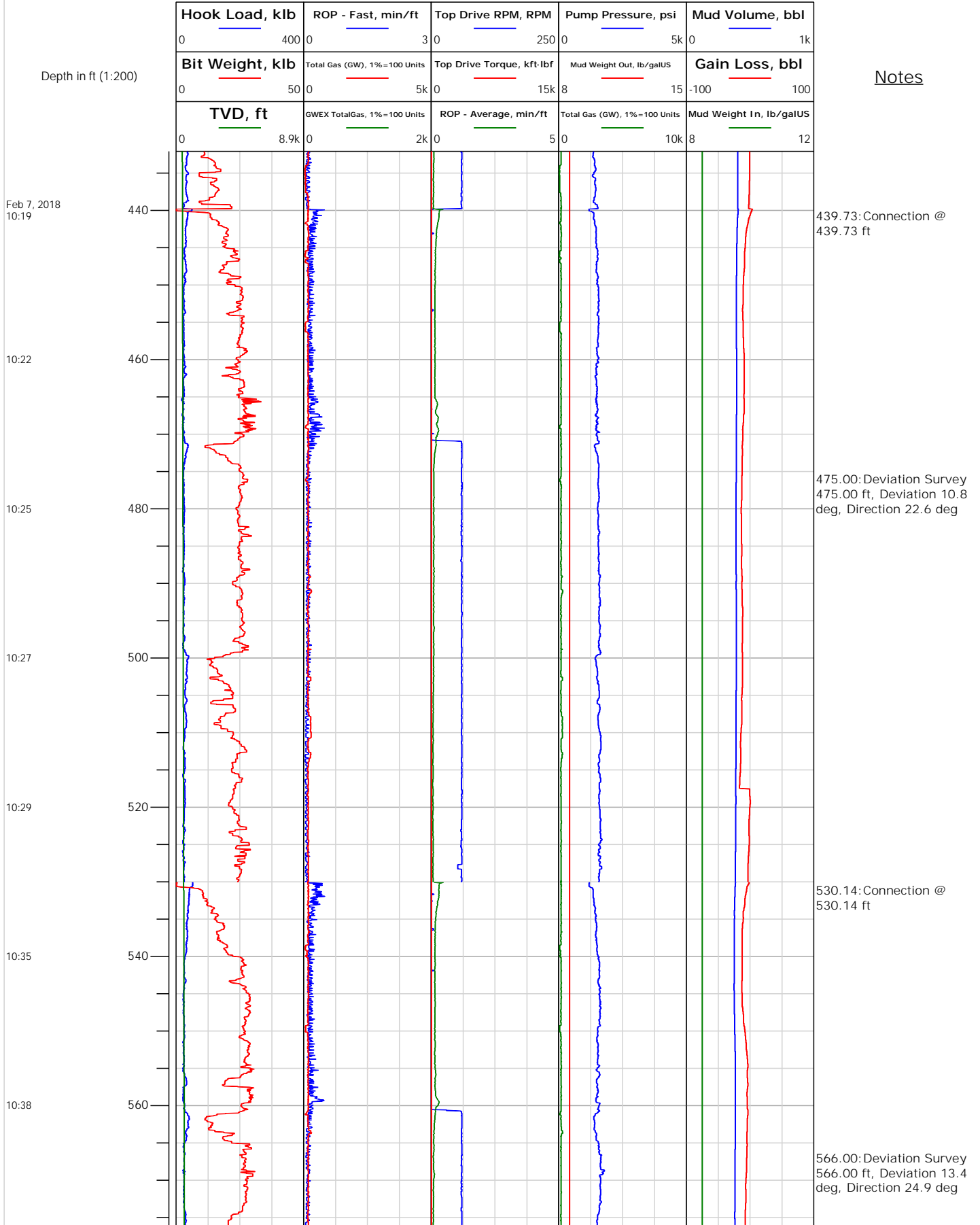
# Electronic Drilling Recorder

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

**Well Name:** Nichols 0994-13-18E  
**Rig:** 290

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

## Notes





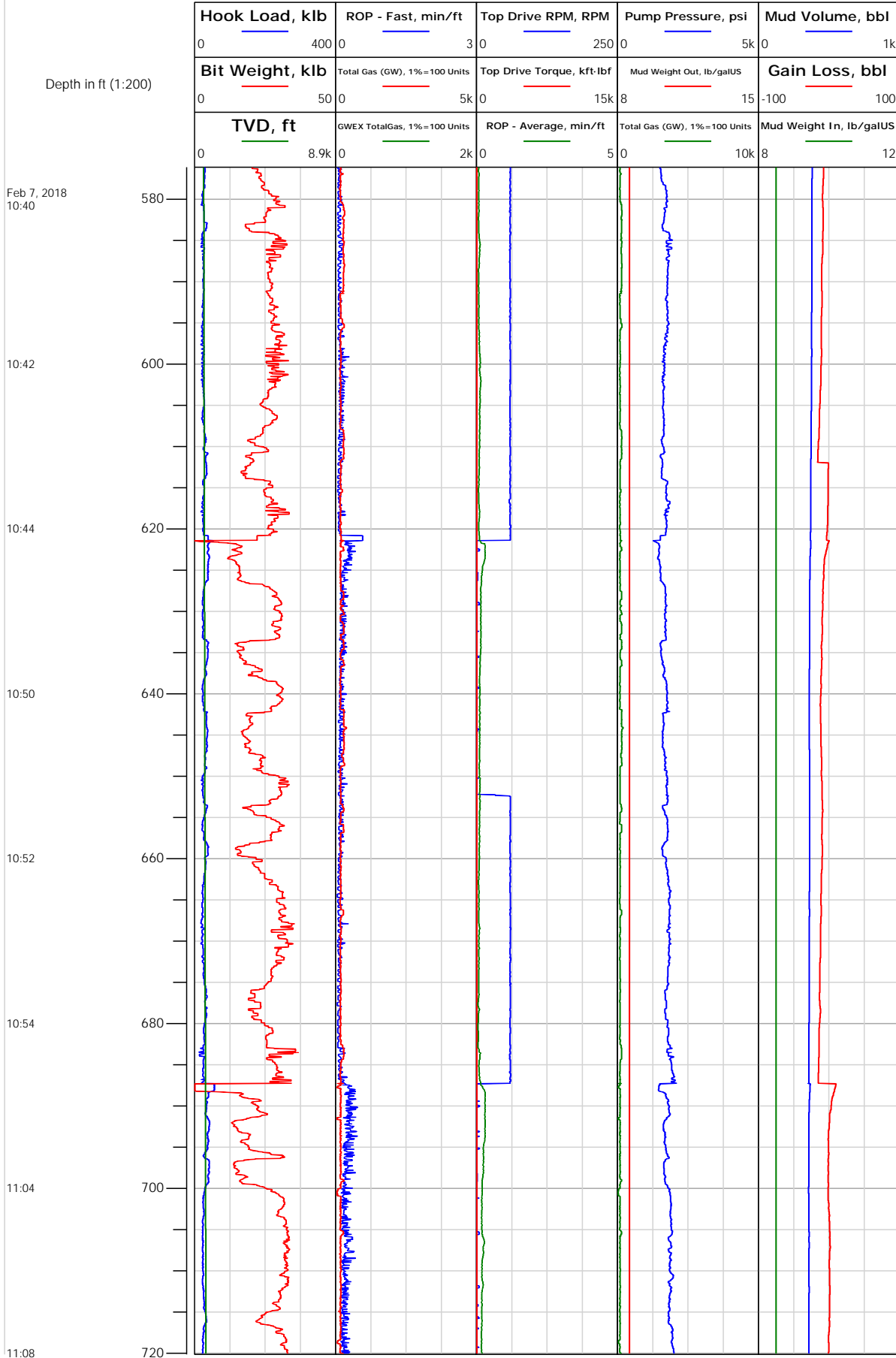
# Electronic Drilling Recorder

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

**Well Name:** Nichols 0994-13-18E  
**Rig:** 290

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

Notes





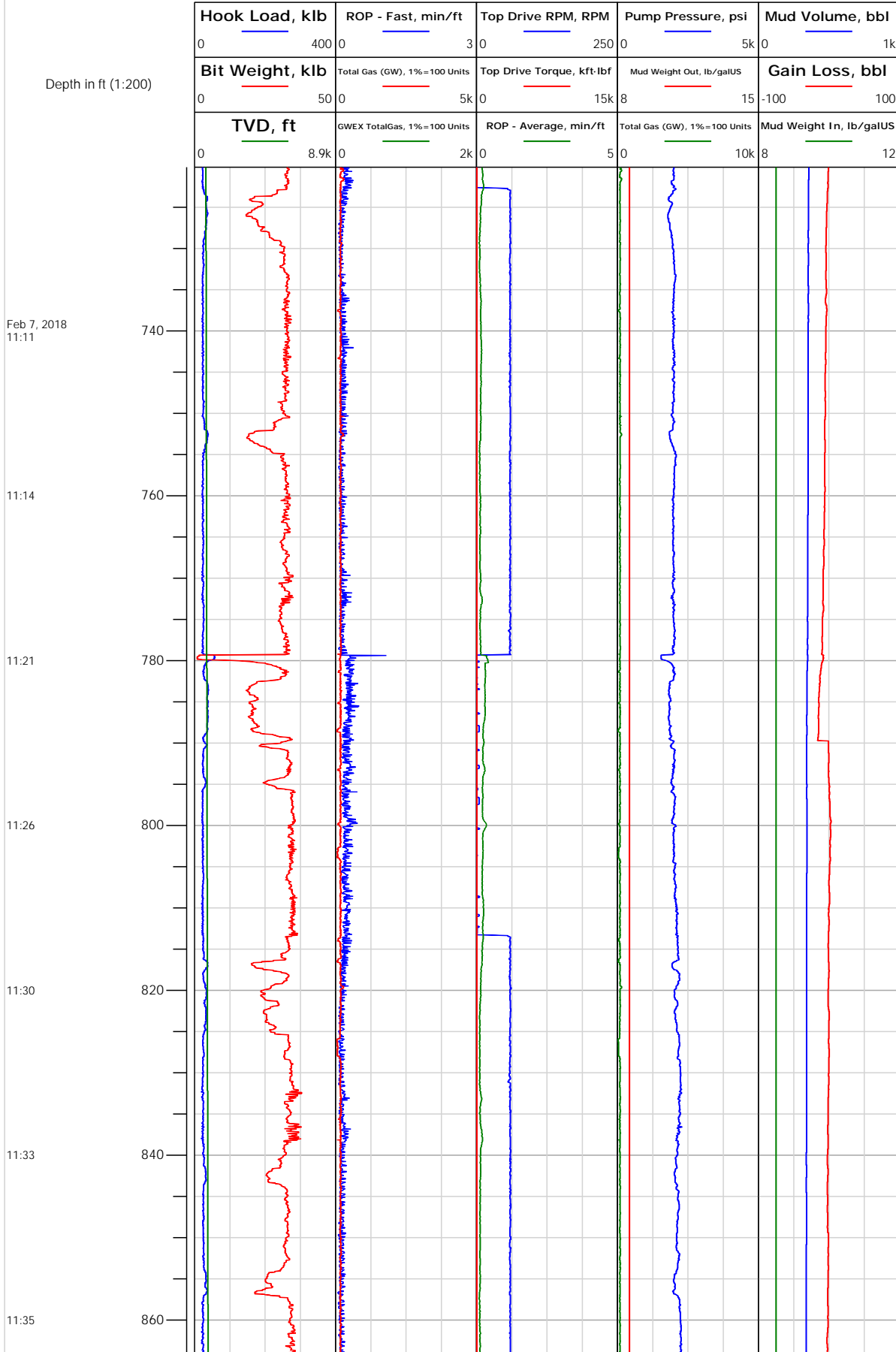
# Electronic Drilling Recorder

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

**Well Name:** Nichols 0994-13-18E  
**Rig:** 290

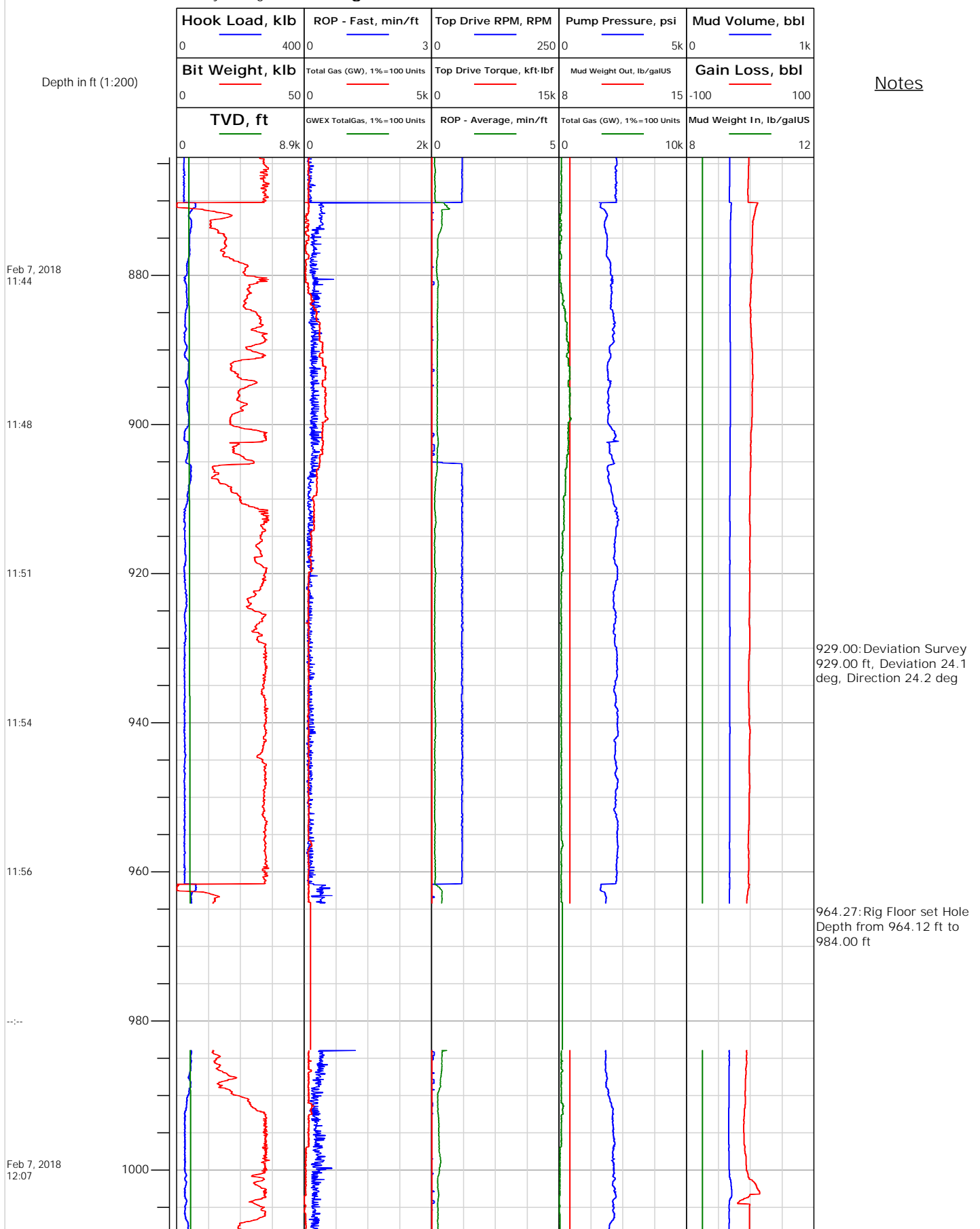
**Location:** SW/4 of NE/4

## Notes



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

# Electronic Drilling Recorder





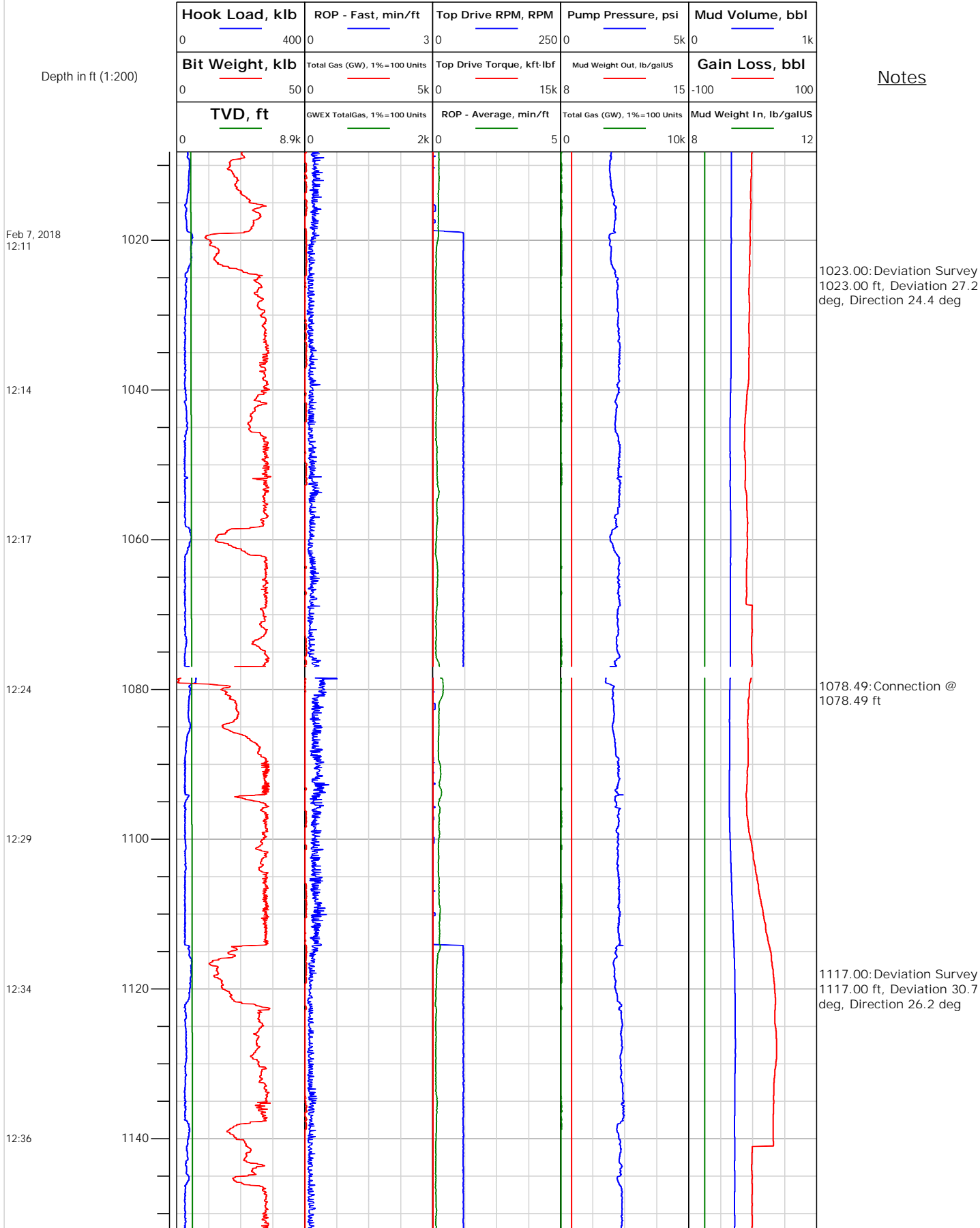
# Electronic Drilling Recorder

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

**Well Name:** Nichols 0994-13-18E  
**Rig:** 290

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

## Notes





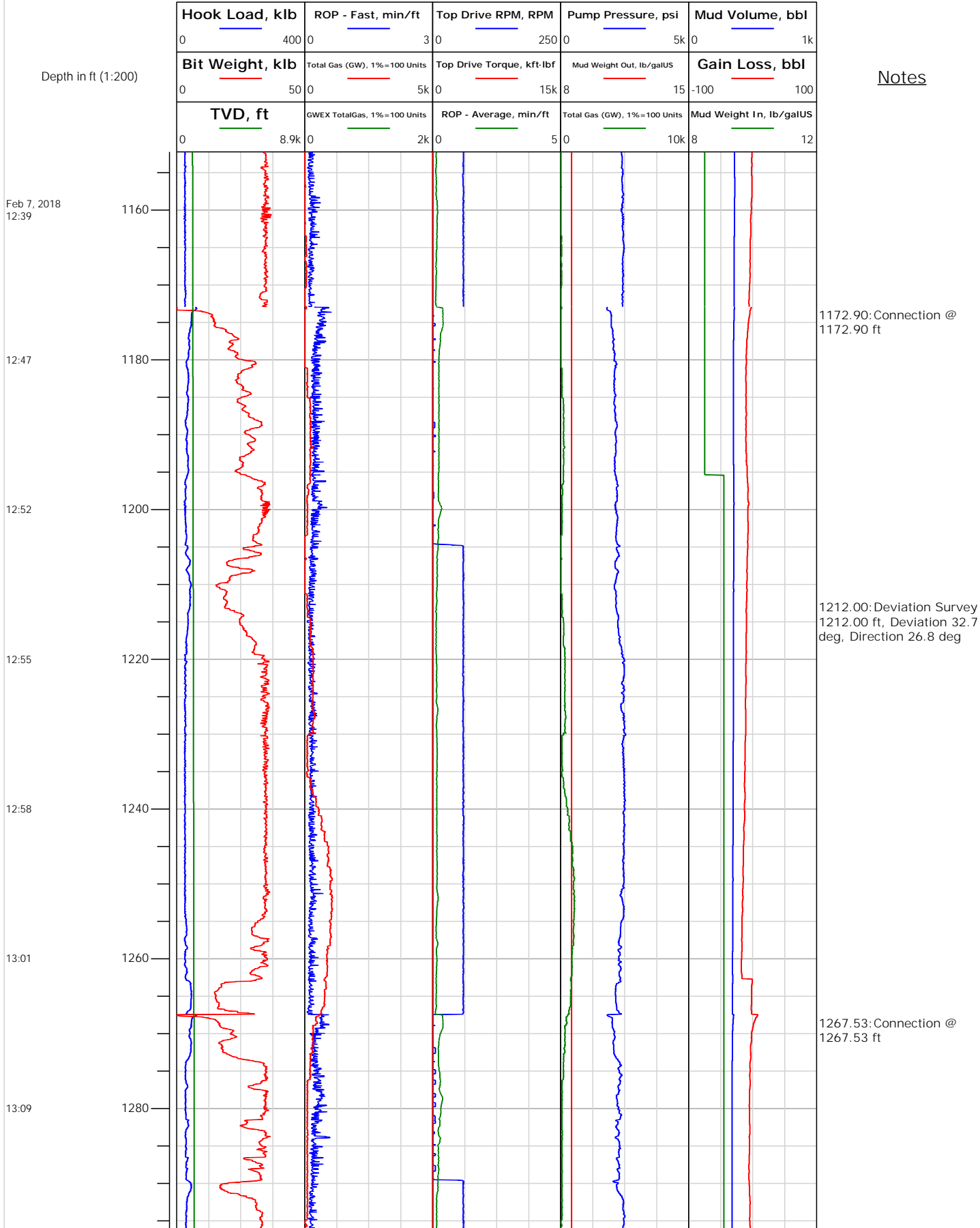
# Electronic Drilling Recorder

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

**Well Name:** Nichols 0994-13-18E  
**Rig:** 290

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

## Notes





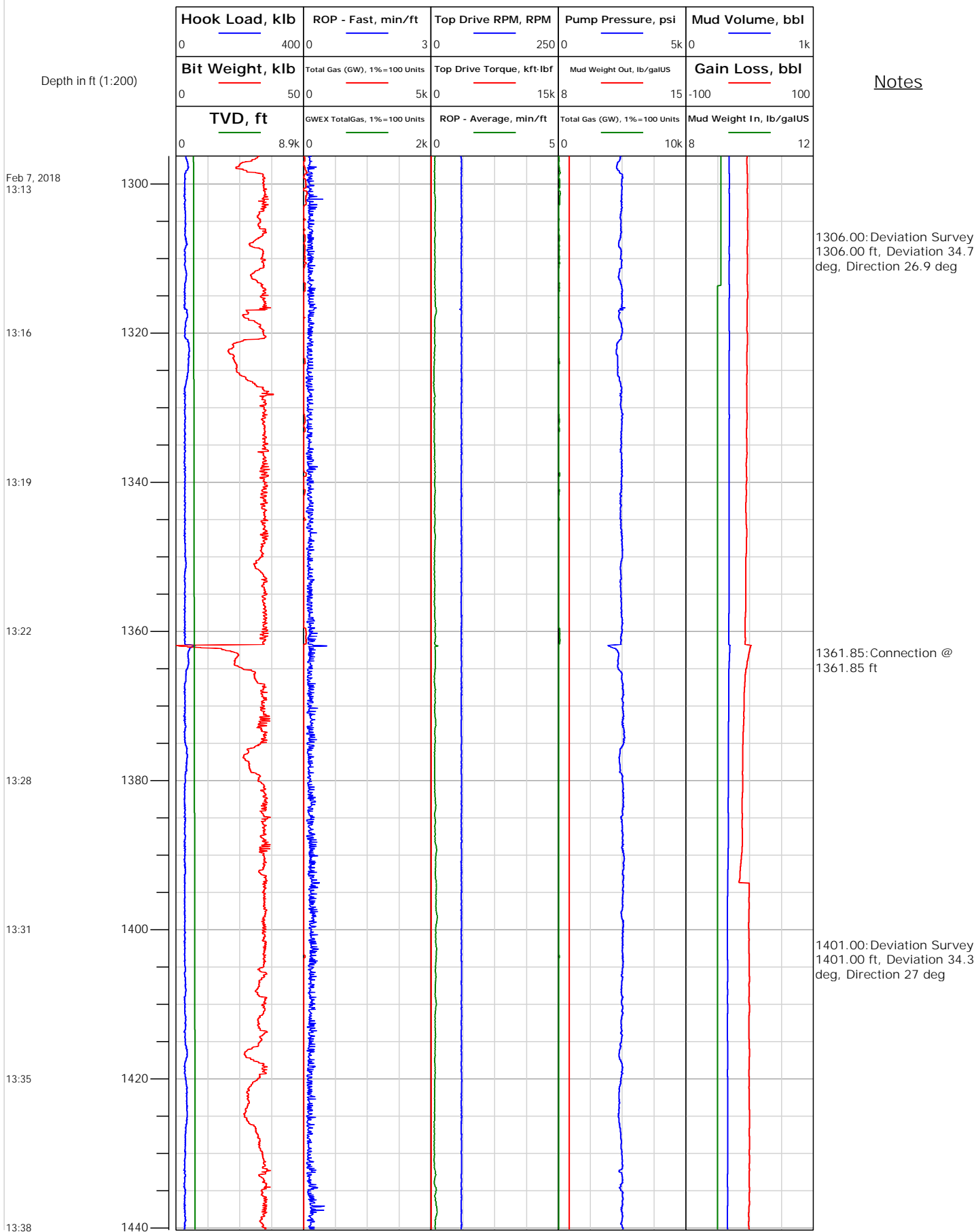
# Electronic Drilling Recorder

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

**Well Name:** Nichols 0994-13-18E  
**Rig:** 290

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

## Notes





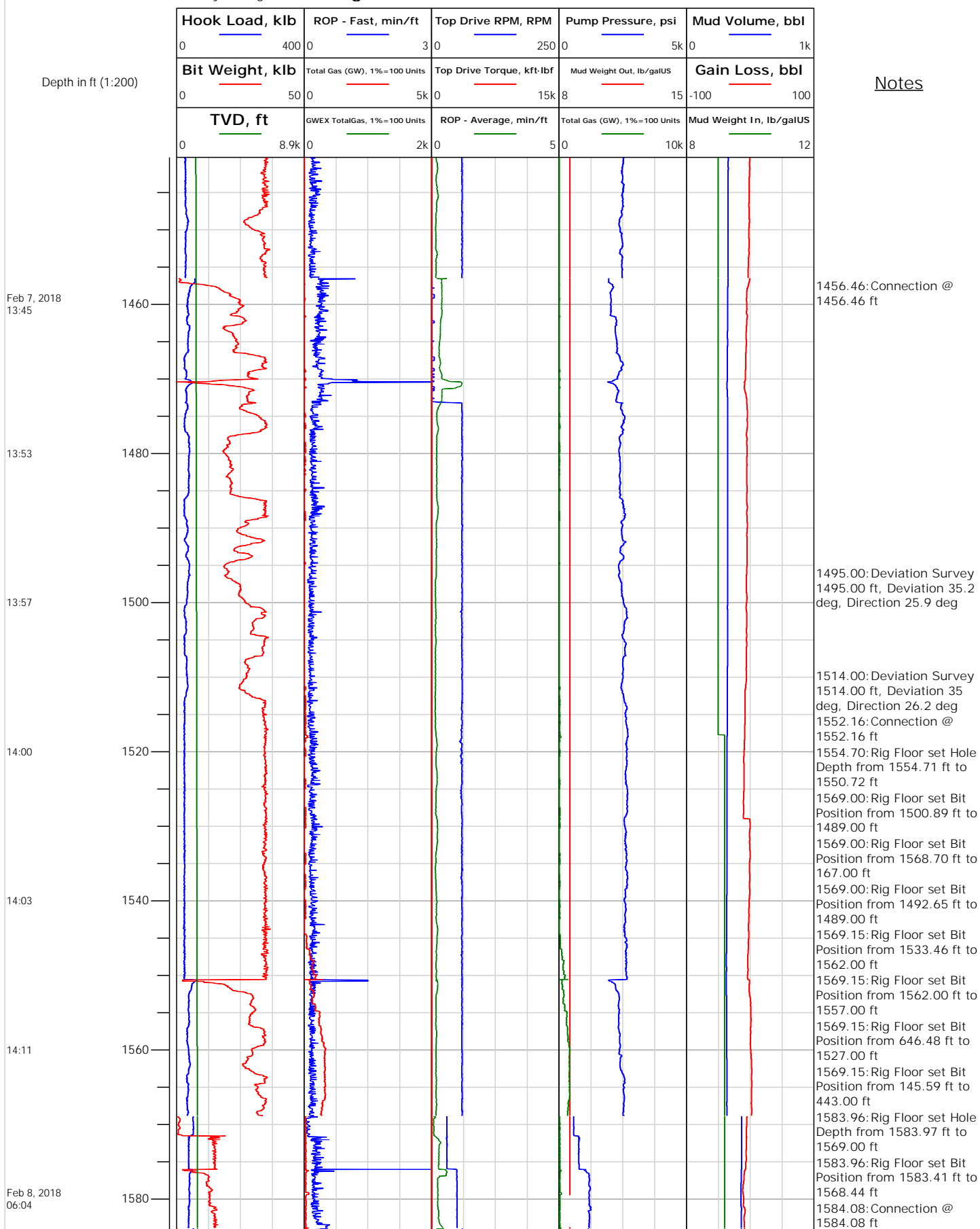
# Electronic Drilling Recorder

Operator: Laramie Energy  
Contractor: Helmerich & Payne Drlg Co

Well Name: Nichols 0994-13-18E  
Rig: 290

Location: SW/4 of NE/4

## Notes





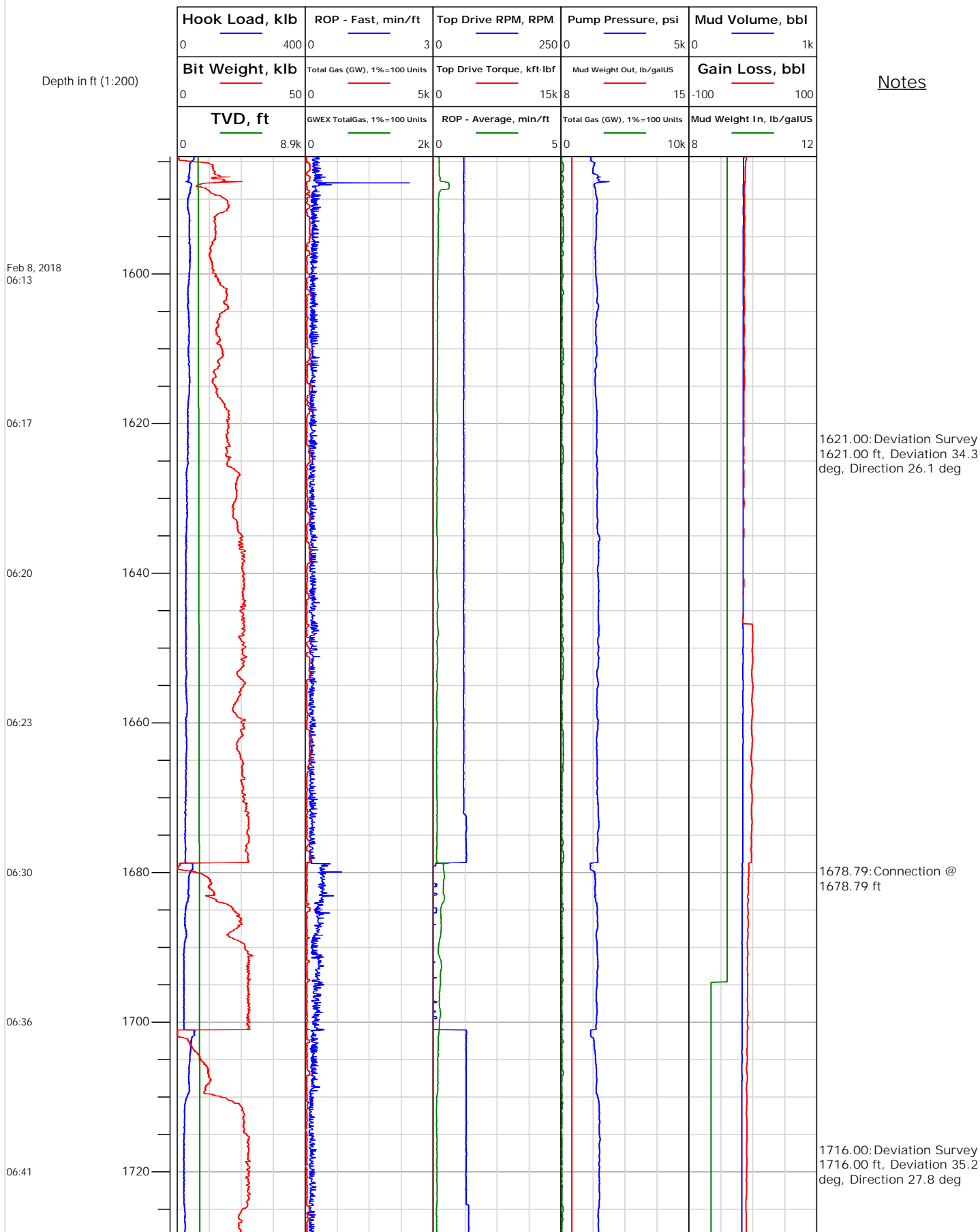
# Electronic Drilling Recorder

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

**Well Name:** Nichols 0994-13-18E  
**Rig:** 290

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

## Notes





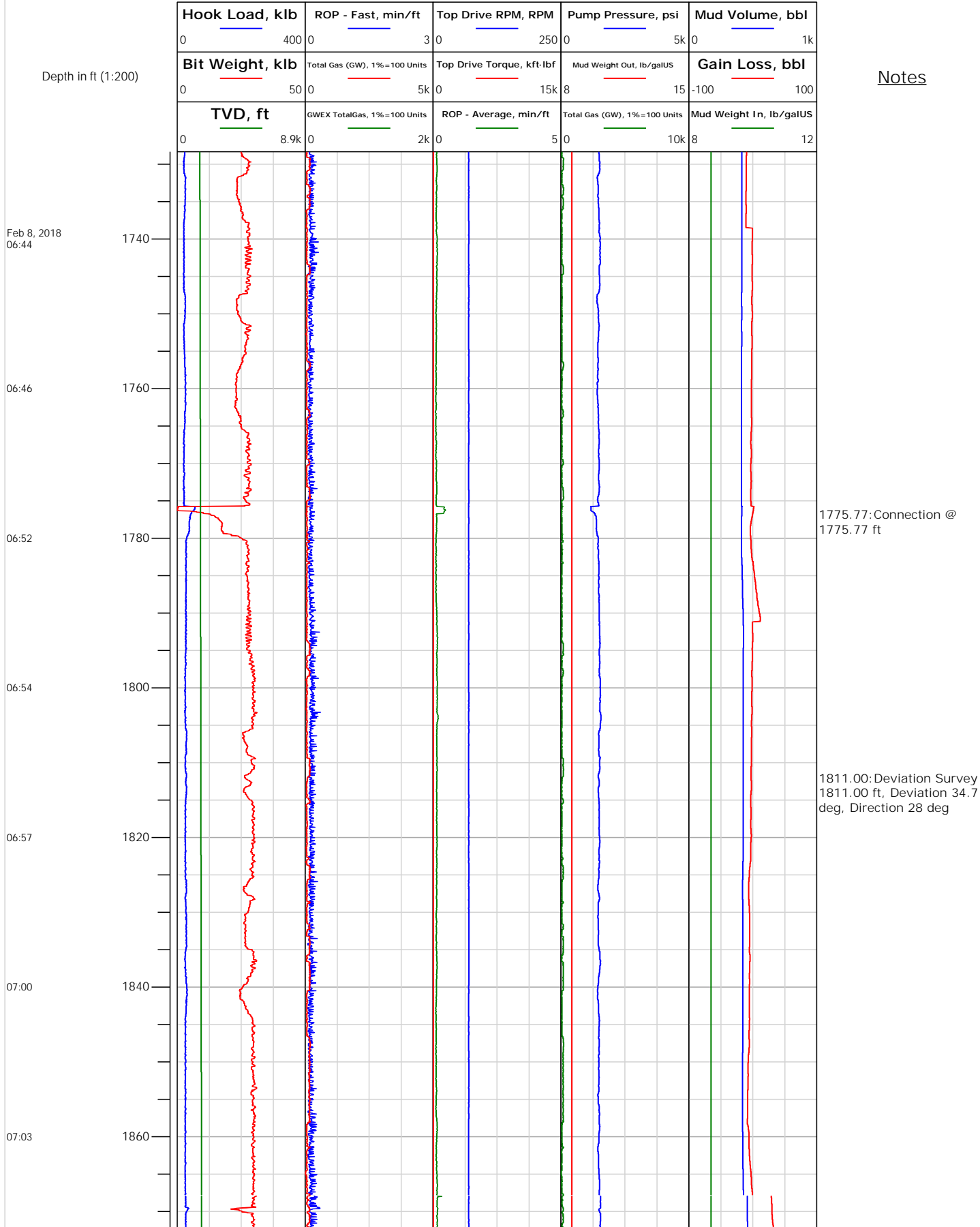
# Electronic Drilling Recorder

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

**Well Name:** Nichols 0994-13-18E  
**Rig:** 290

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

Notes





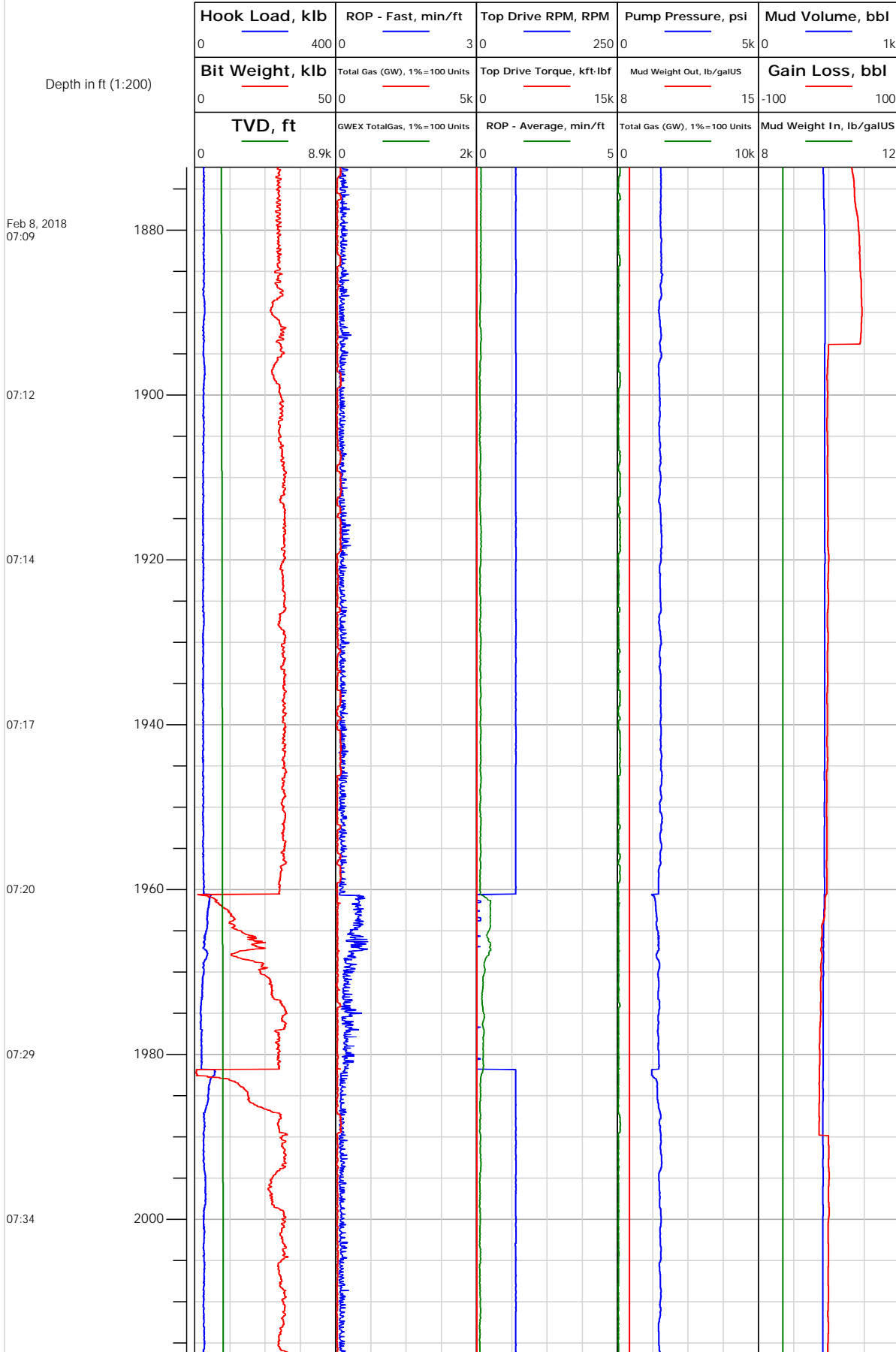
# Electronic Drilling Recorder

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

**Well Name:** Nichols 0994-13-18E  
**Rig:** 290

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

## Notes



1873.57: Rig Floor set Hole Depth from 1873.23 ft to 1868.00 ft

1905.00: Deviation Survey 1905.00 ft, Deviation 33.4 deg, Direction 27.7 deg

1999.99: Deviation Survey 2000.00 ft, Deviation 33.8 deg, Direction 29.5 deg

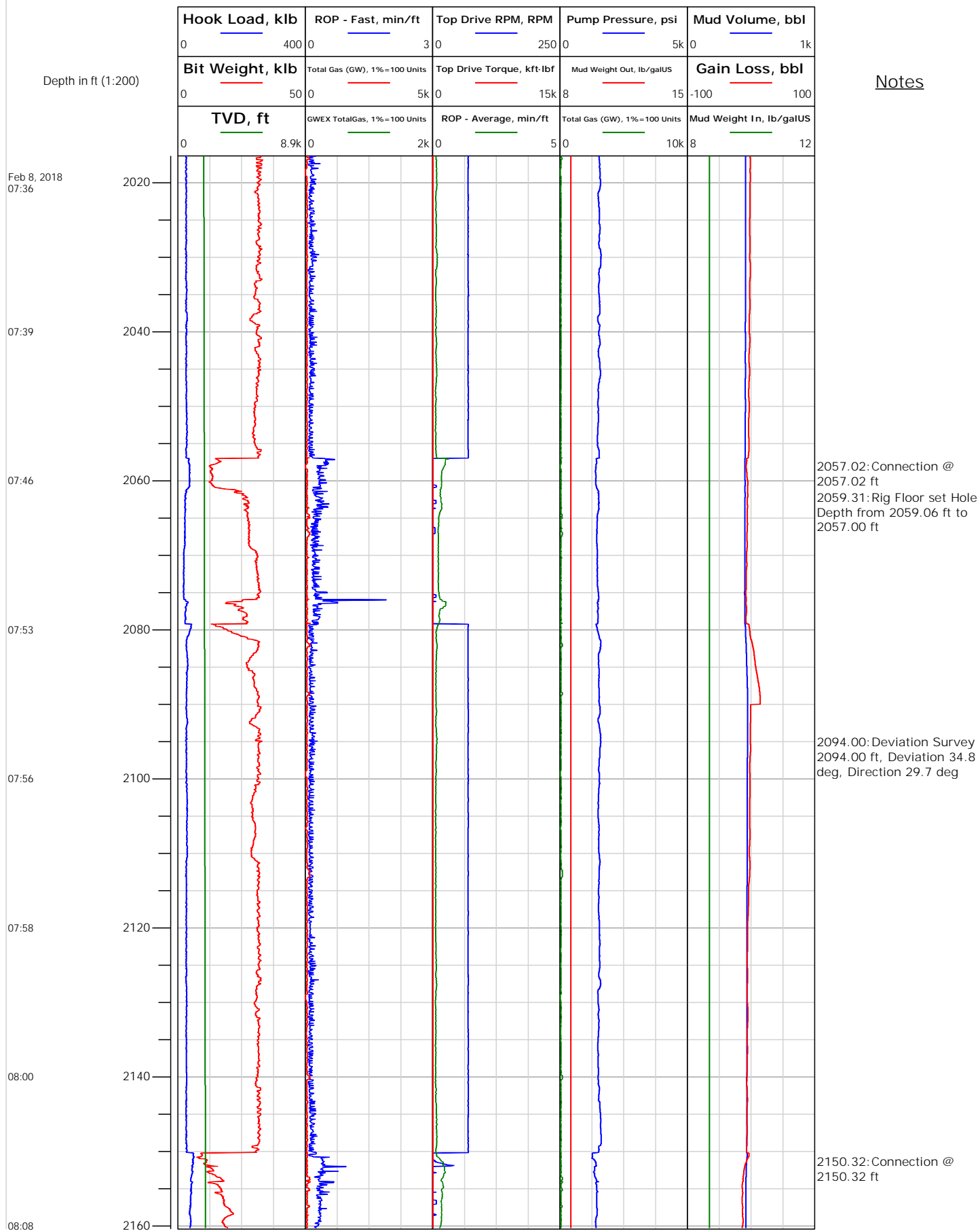


## Electronic Drilling Recorder

Operator: Laramie Energy  
Contractor: Helmerich & Payne Drlg Co

Well Name: Nichols 0994-13-18E  
Rig: 290

Location: SW/4 of NE/4





# Electronic Drilling Recorder

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

**Well Name:** Nichols 0994-13-18E  
**Rig:** 290

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

Notes

Depth in ft (1:200)

Feb 8, 2018  
08:14

08:16

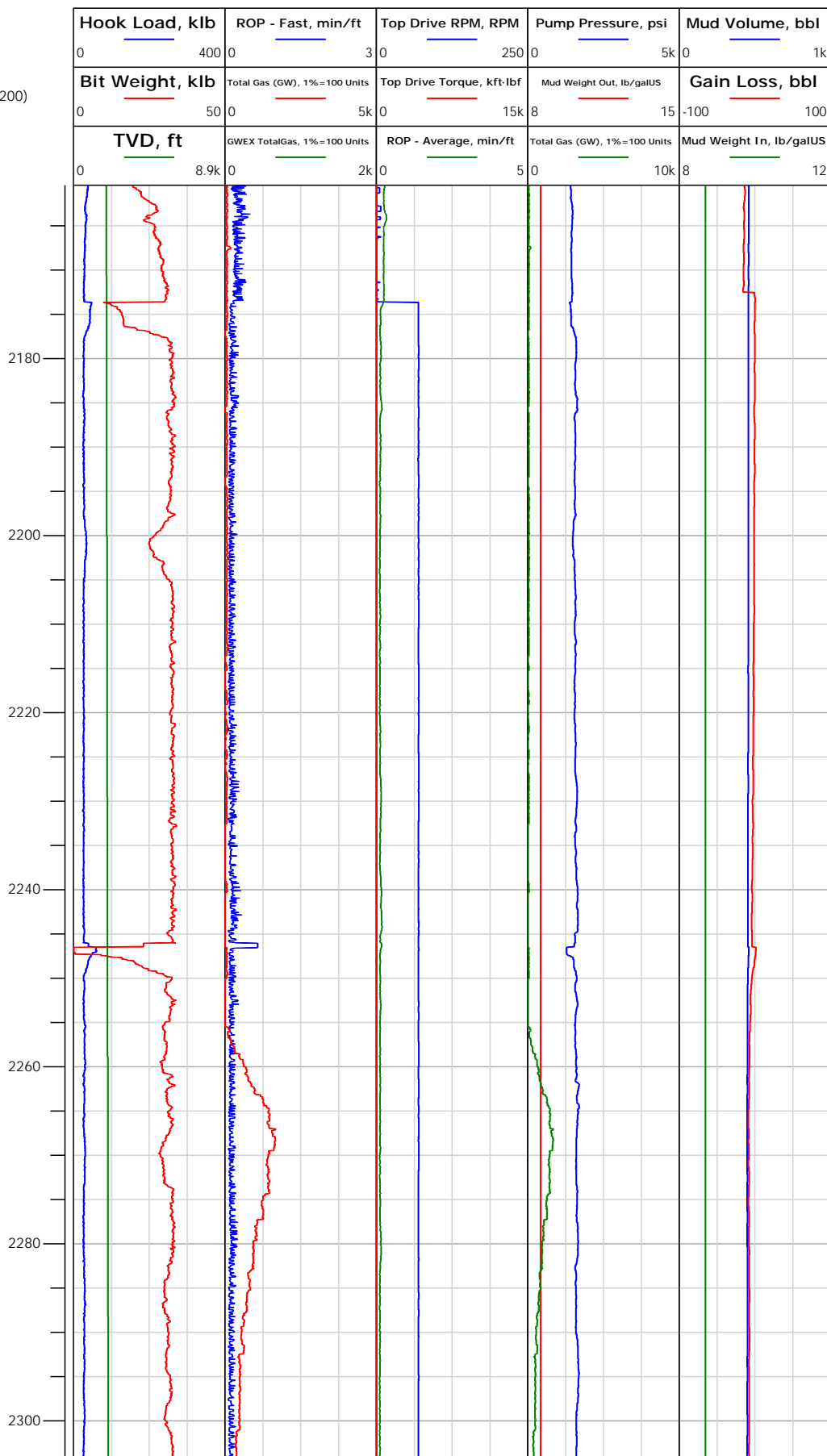
08:19

08:21

08:26

08:29

08:31



2189.00: Deviation Survey  
2189.00 ft, Deviation 35.7 deg, Direction 29.2 deg

2246.57: Connection @  
2246.57 ft

2284.00: Deviation Survey  
2284.00 ft, Deviation 34.9 deg, Direction 28.9 deg



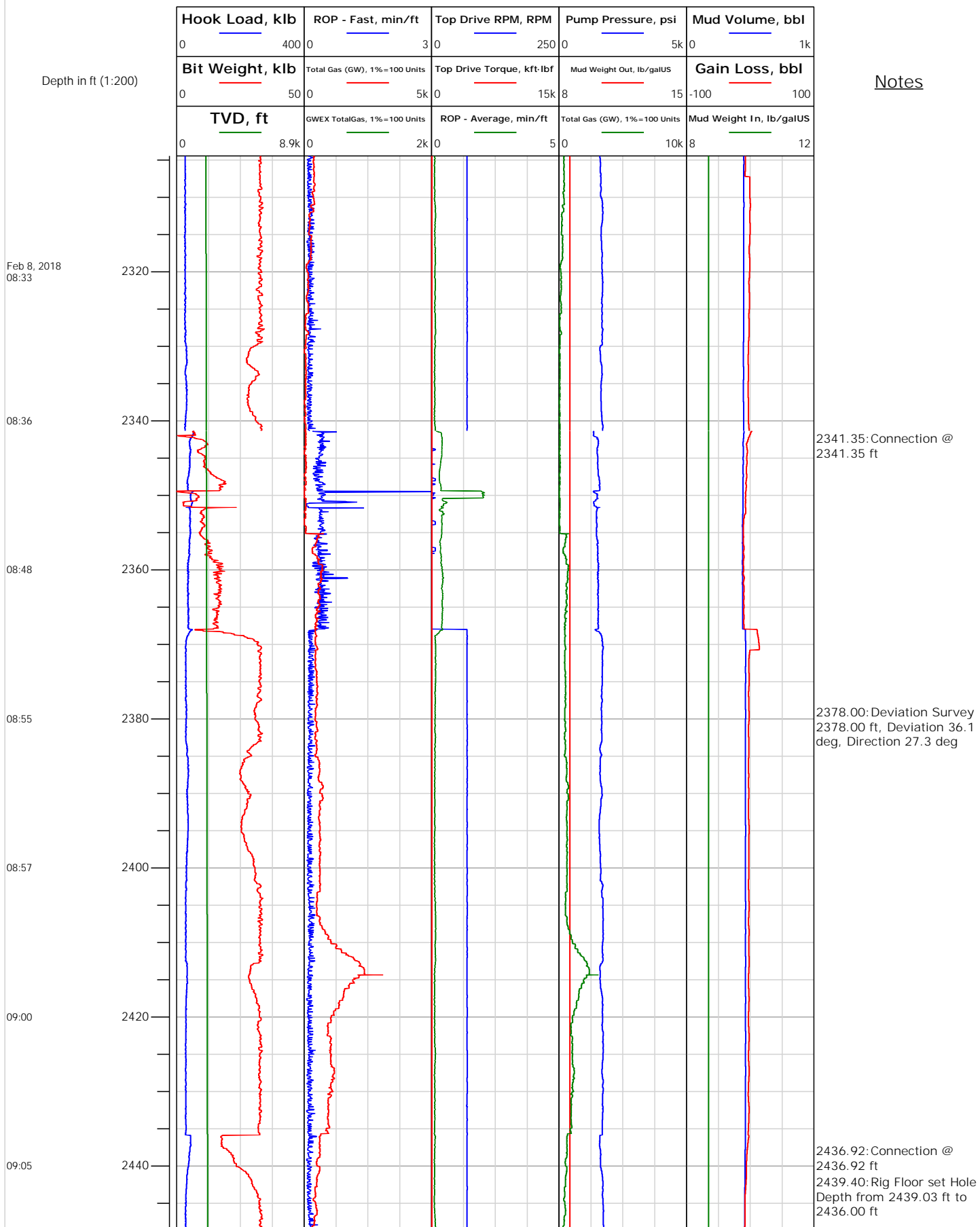
# Electronic Drilling Recorder

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

**Well Name:** Nichols 0994-13-18E  
**Rig:** 290

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

## Notes





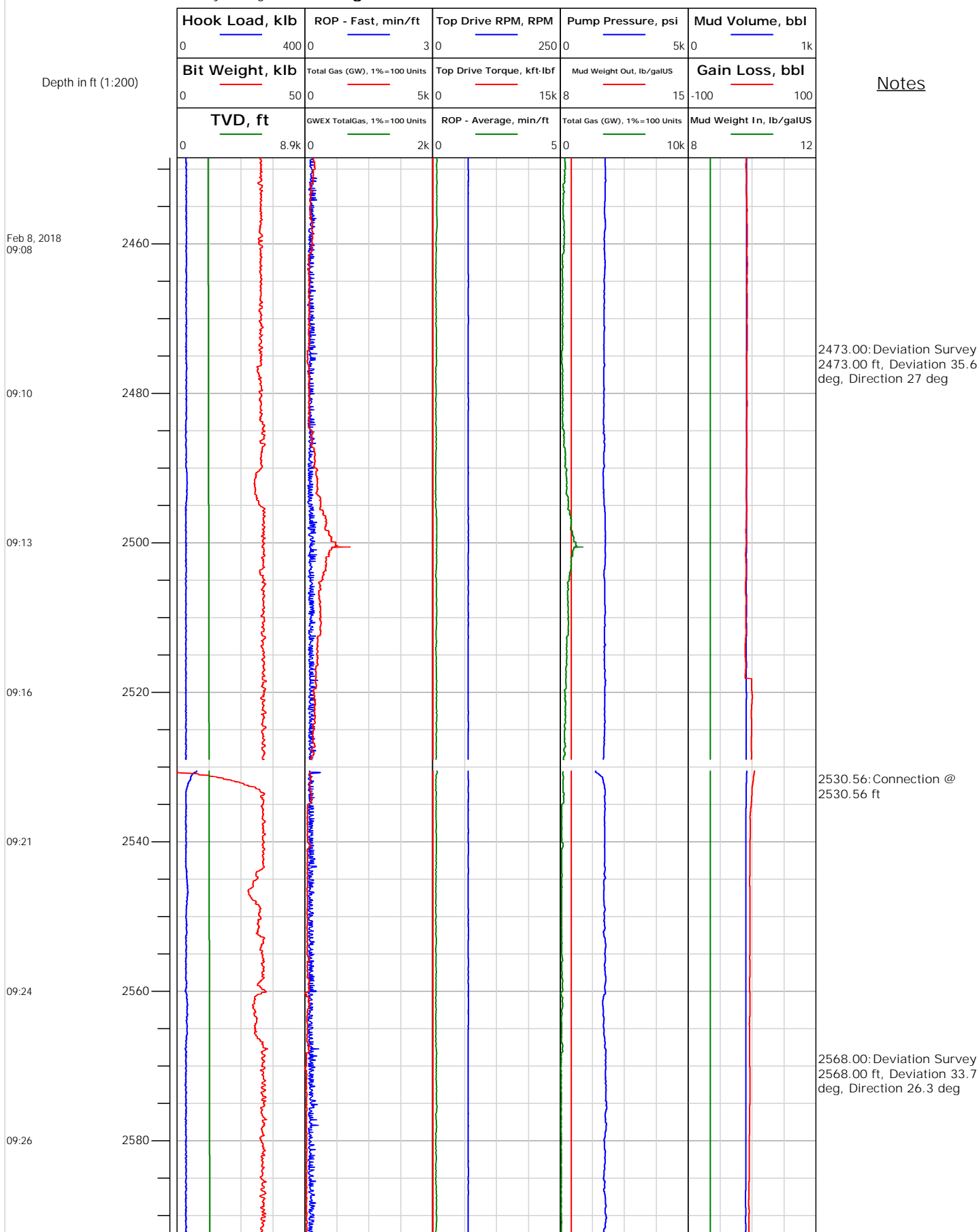
# Electronic Drilling Recorder

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

**Well Name:** Nichols 0994-13-18E  
**Rig:** 290

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

## Notes





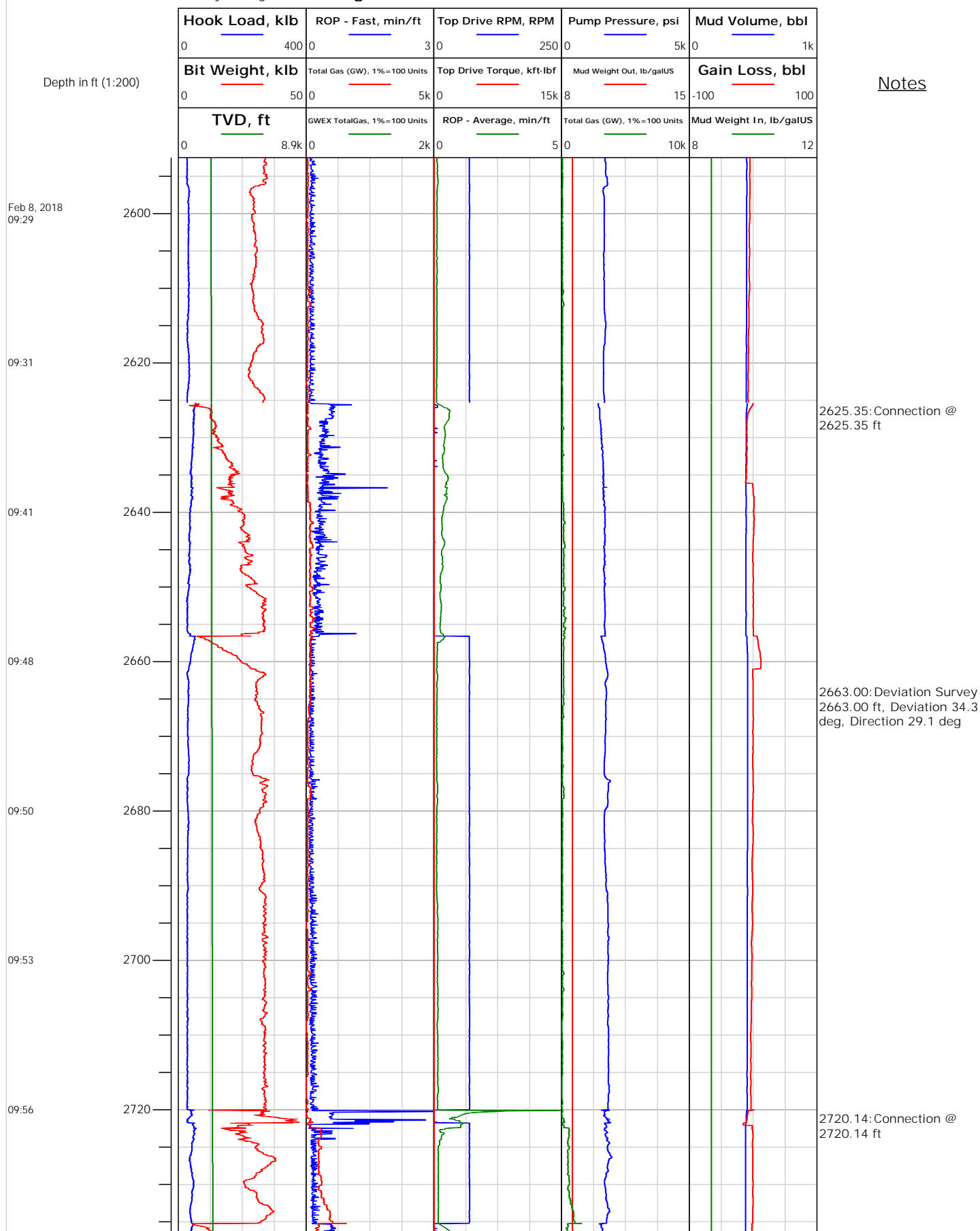
# Electronic Drilling Recorder

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

**Well Name:** Nichols 0994-13-18E  
**Rig:** 290

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

## Notes



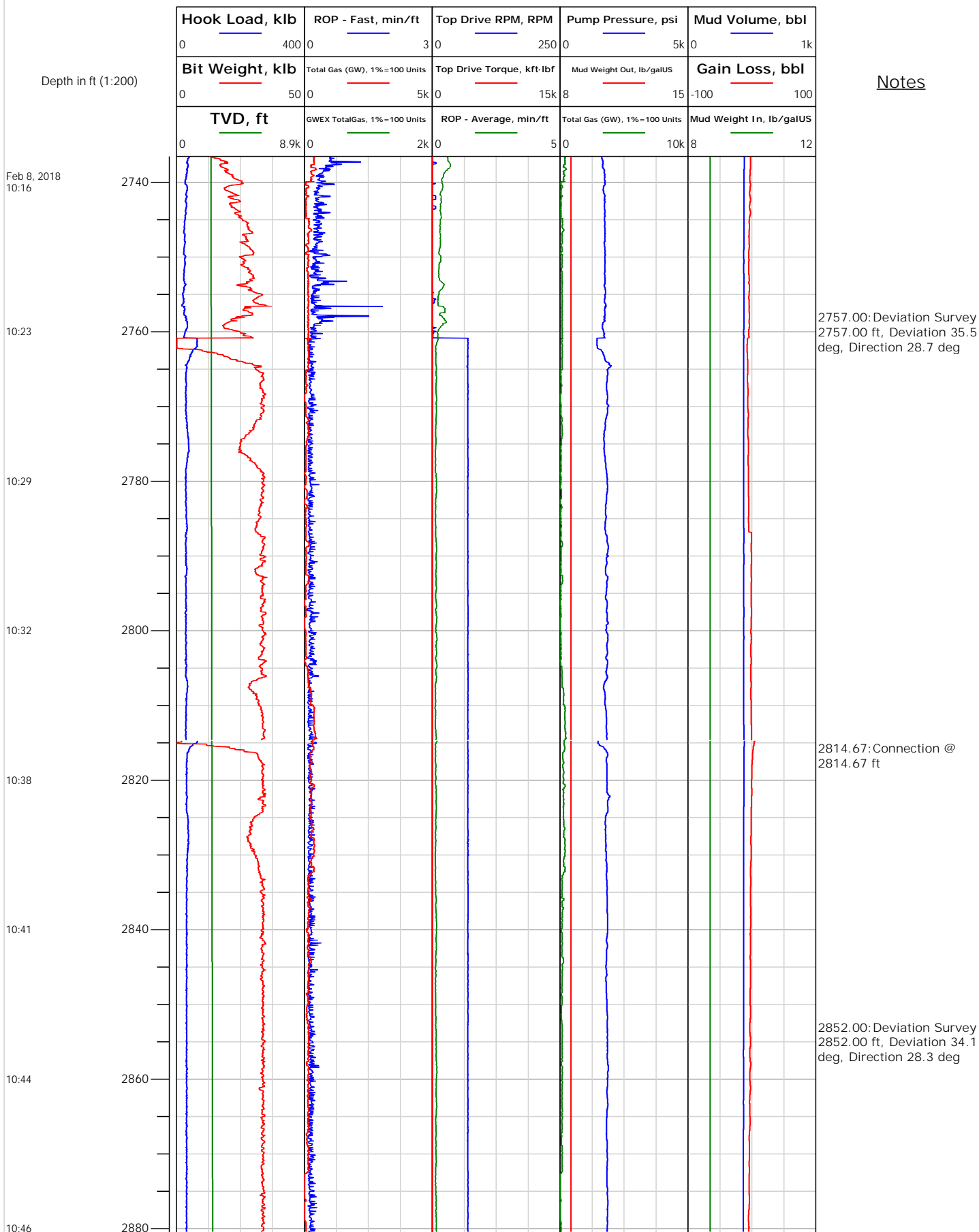


# Electronic Drilling Recorder

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

**Well Name:** Nichols 0994-13-18E  
**Rig:** 290

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





## Electronic Drilling Recorder

Operator: Laramie Energy  
Contractor: Helmerich & Payne Drlg Co

Well Name: Nichols 0994-13-18E  
Rig: 290

Location: SW/4 of NE/4

Depth in ft (1:200)

Notes

Feb 8, 2018  
10:49

10:58

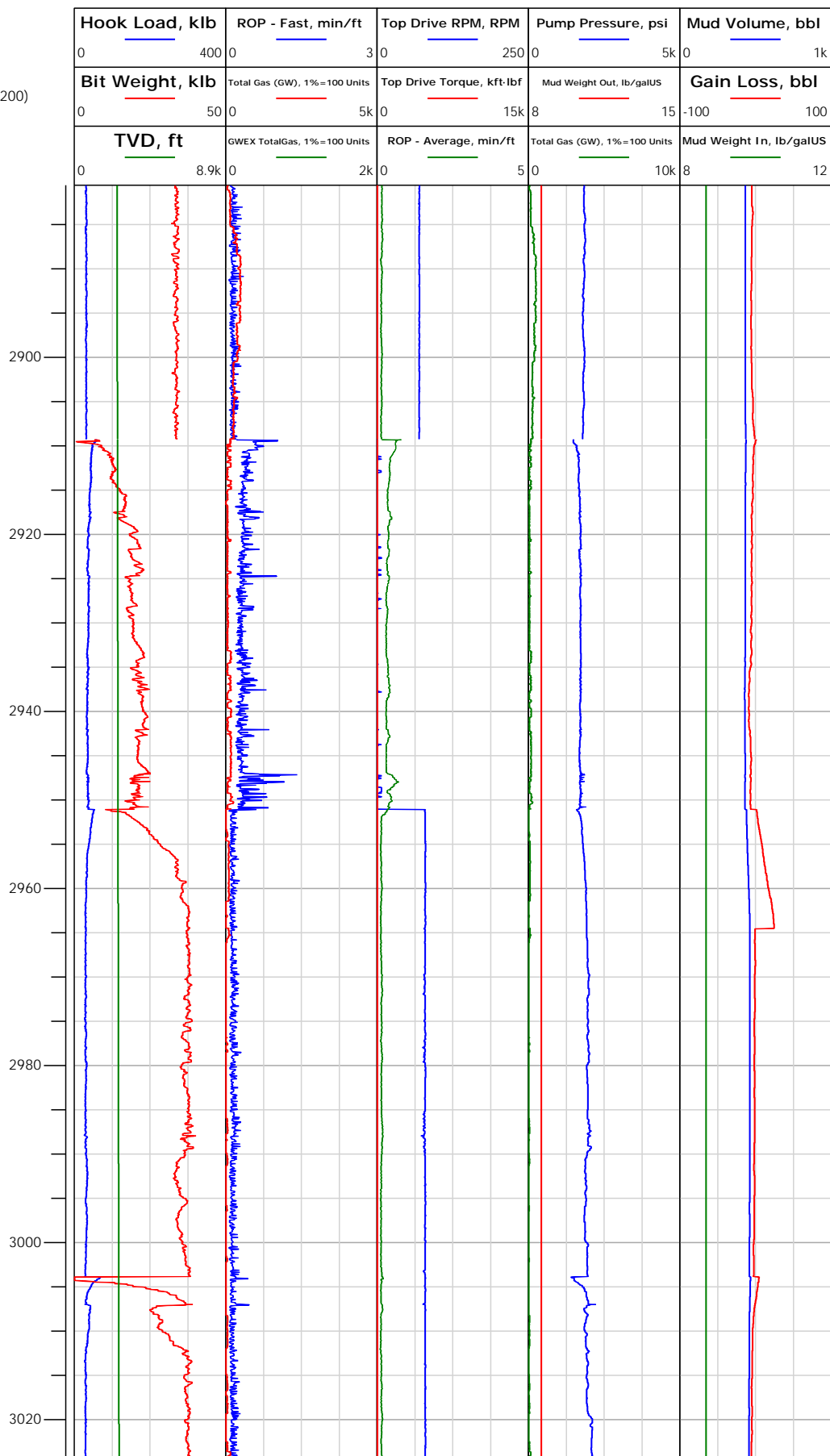
11:05

11:11

11:14

11:17

11:22





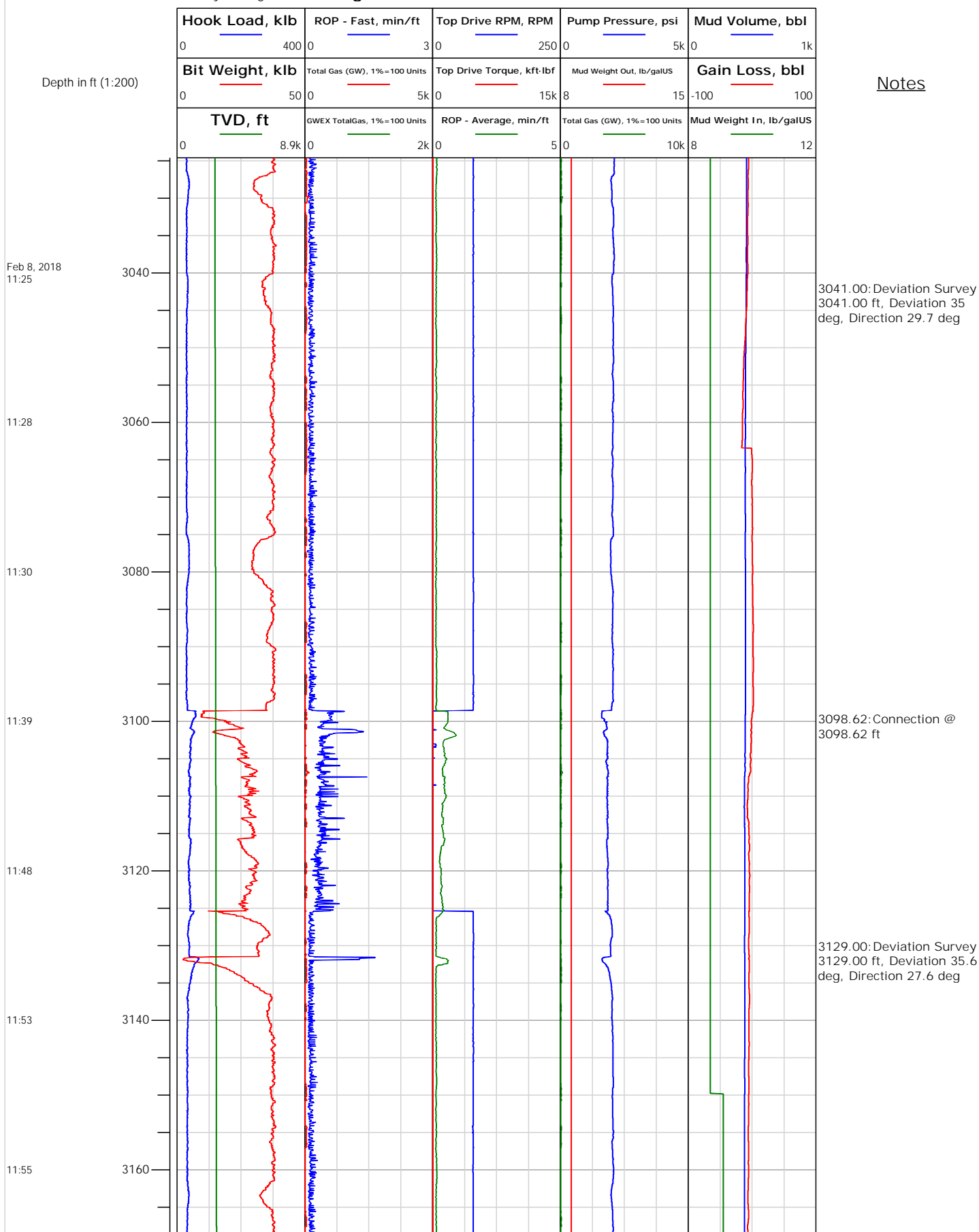
# Electronic Drilling Recorder

Operator: Laramie Energy  
Contractor: Helmerich & Payne Drlg Co

Well Name: Nichols 0994-13-18E  
Rig: 290

Location: SW/4 of NE/4

## Notes





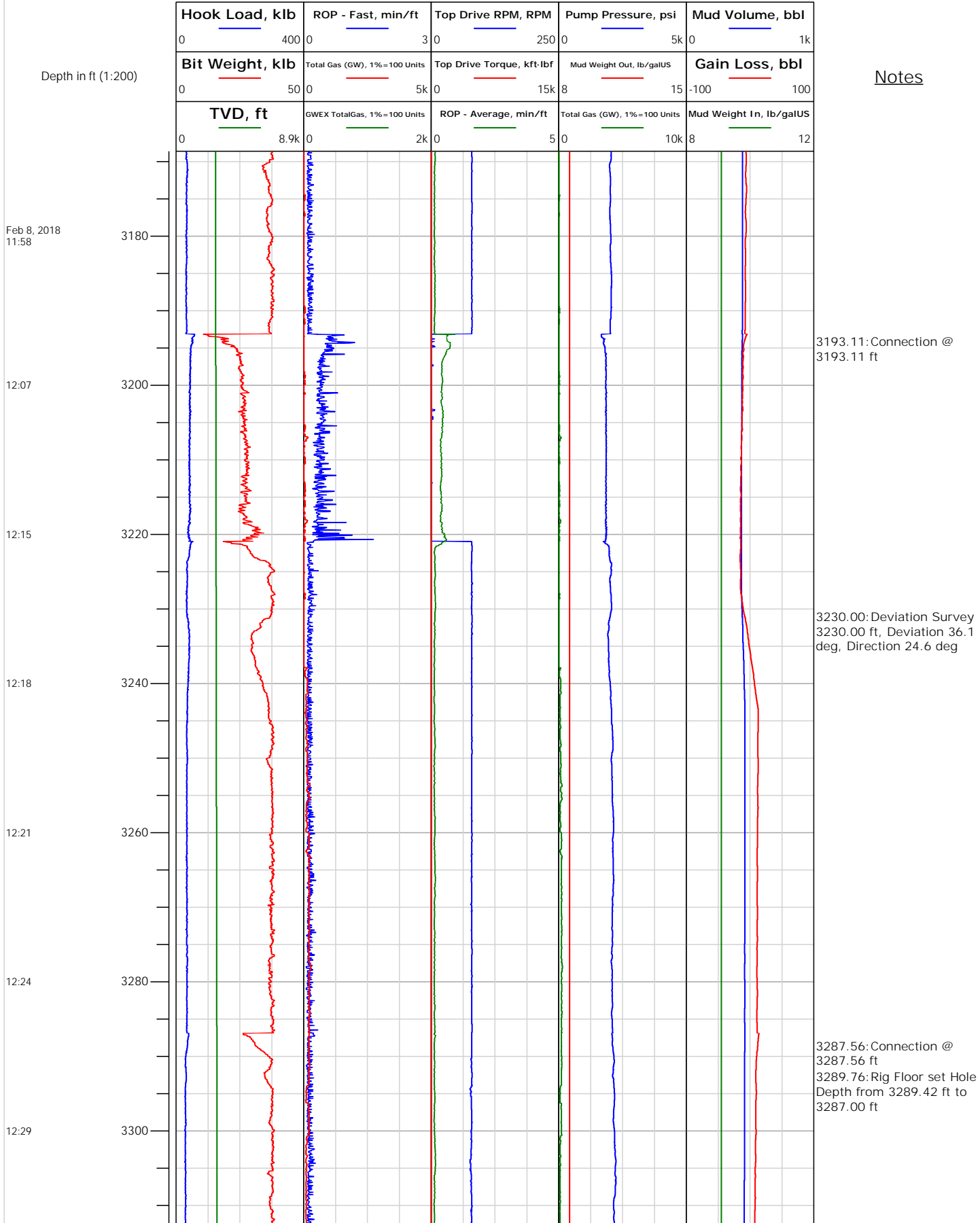
# Electronic Drilling Recorder

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

**Well Name:** Nichols 0994-13-18E  
**Rig:** 290

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

## Notes





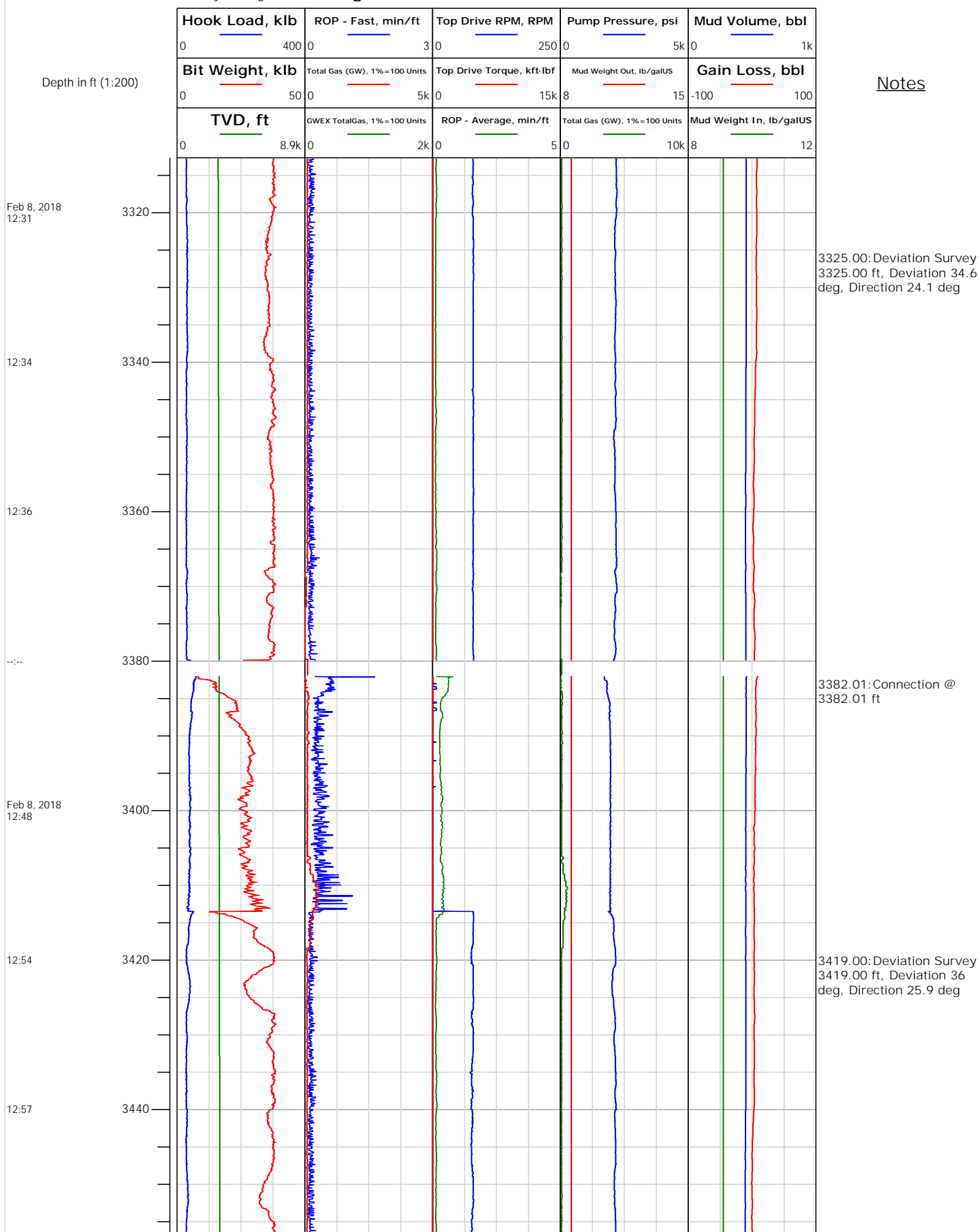
## Electronic Drilling Recorder

Operator: Laramie Energy  
Contractor: Helmerich & Payne Drlg Co

Well Name: Nichols 0994-13-18E  
Rig: 290

Location: SW/4 of NE/4

## Notes



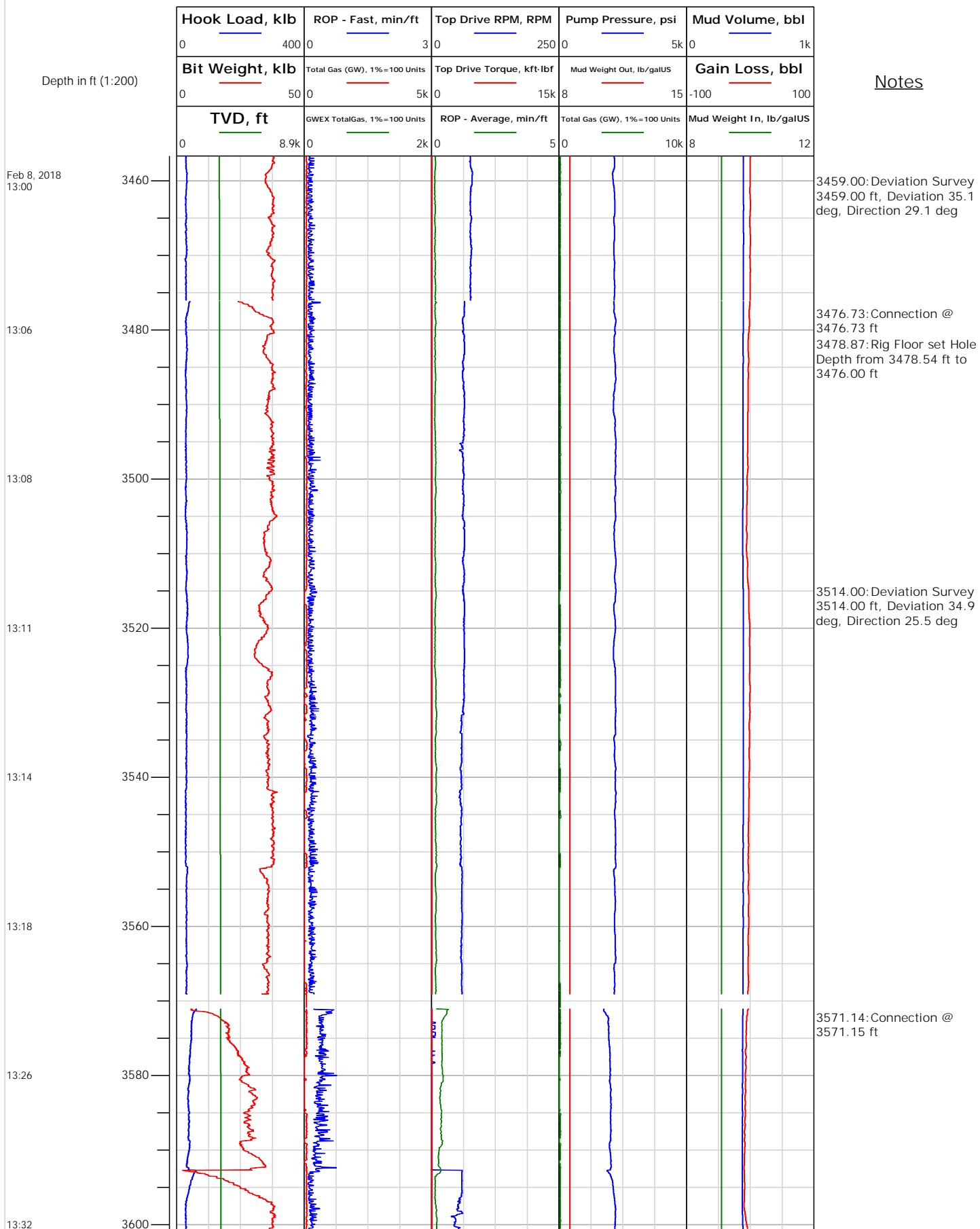


## Electronic Drilling Recorder

Operator: Laramie Energy  
Contractor: Helmerich & Payne Drlg Co

Well Name: Nichols 0994-13-18E  
Rig: 290

Location: SW/4 of NE/4





## Electronic Drilling Recorder

Operator: Laramie Energy  
Contractor: Helmerich & Payne Drlg Co

Well Name: Nichols 0994-13-18E  
Rig: 290

Location: SW/4 of NE/4

Depth in ft (1:200)

Notes

Feb 8, 2018  
13:35

13:38

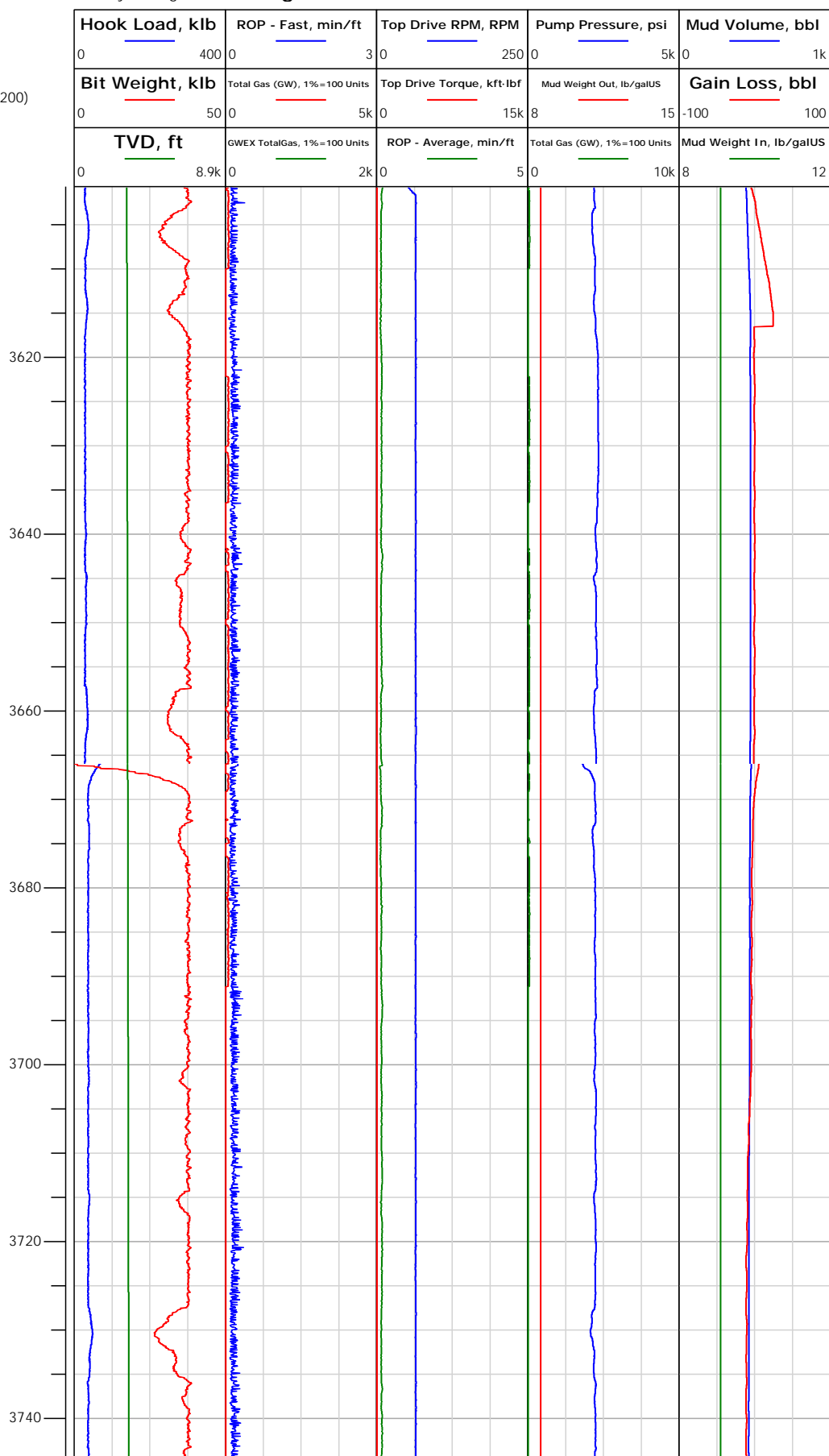
13:42

13:47

13:50

13:53

13:56



3608.00: Deviation Survey  
3608.00 ft, Deviation 35.4  
deg, Direction 26.7 deg

3665.99: Connection @  
3665.99 ft

3703.00: Deviation Survey  
3703.00 ft, Deviation 34.2  
deg, Direction 26.4 deg



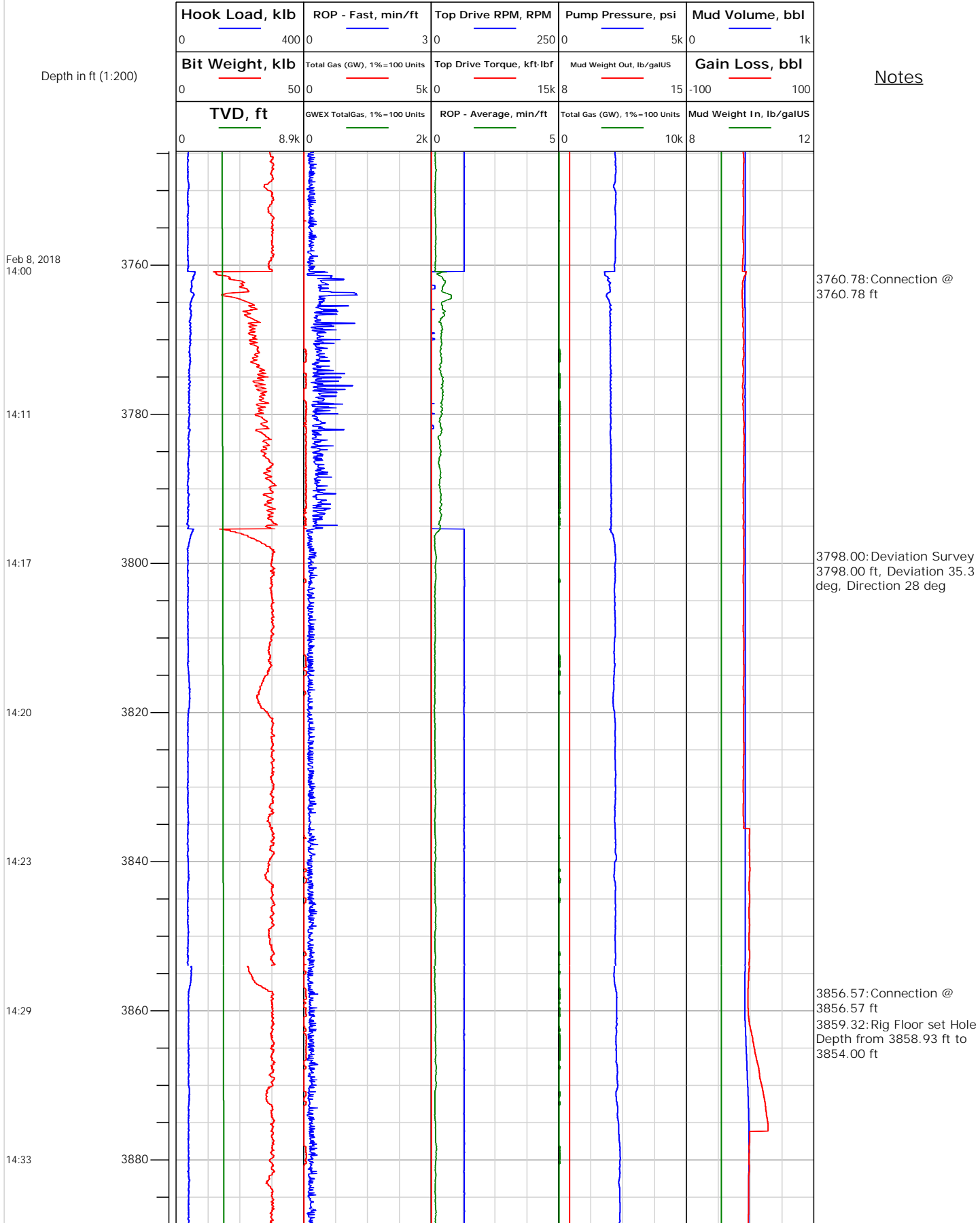
# Electronic Drilling Recorder

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

**Well Name:** Nichols 0994-13-18E  
**Rig:** 290

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

## Notes



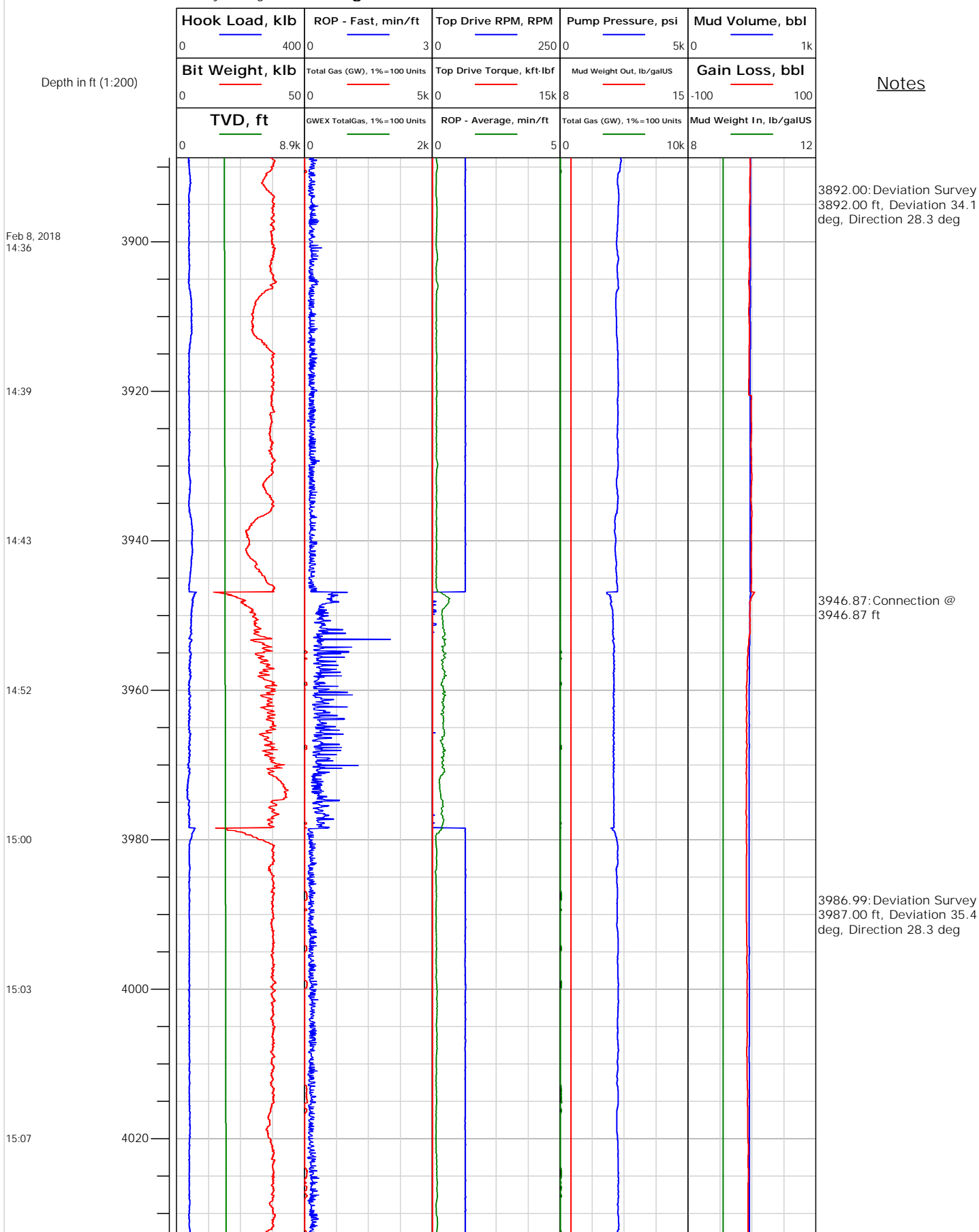


# Electronic Drilling Recorder

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

**Well Name:** Nichols 0994-13-18E  
**Rig:** 290

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





## Electronic Drilling Recorder

Operator: Laramie Energy  
Contractor: Helmerich & Payne Drlg Co

Well Name: Nichols 0994-13-18E  
Rig: 290

Location: SW/4 of NE/4

## Notes

Depth in ft (1:200)

Feb 8, 2018  
15:10

15:16

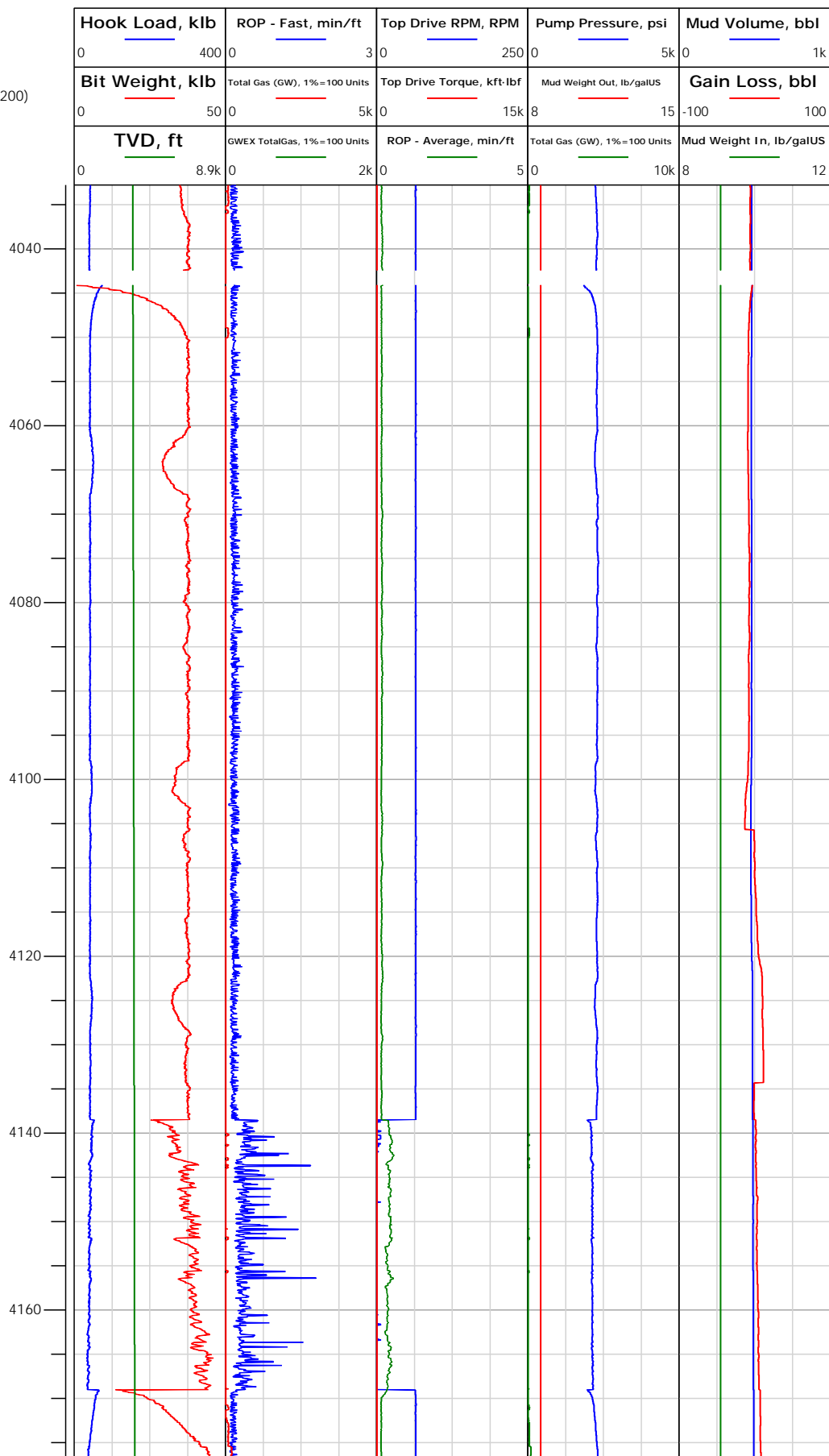
15:19

15:23

15:26

15:34

15:42





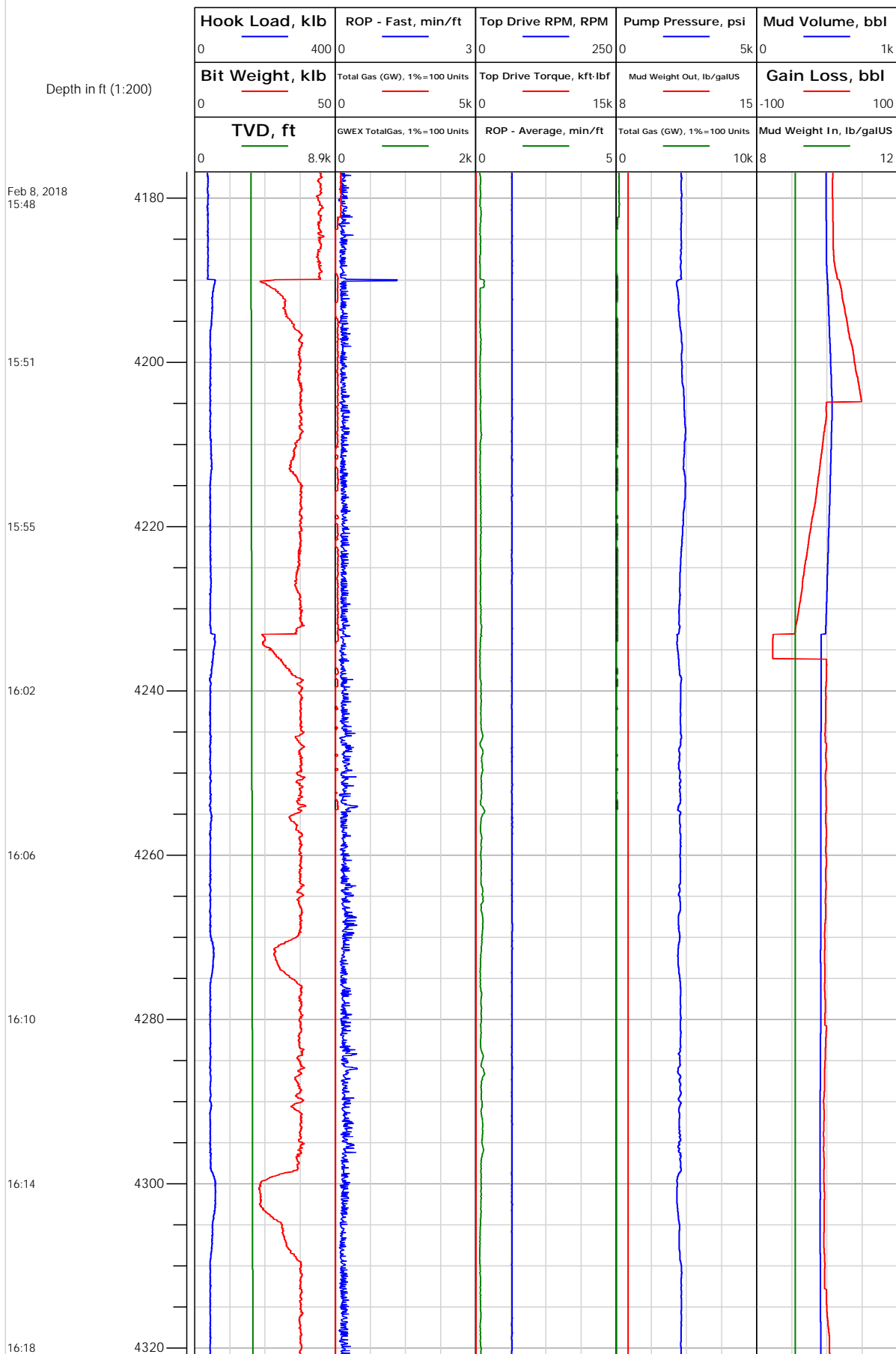
# Electronic Drilling Recorder

Operator: Laramie Energy  
Contractor: Helmerich & Payne Drlg Co

Well Name: Nichols 0994-13-18E  
Rig: 290

Location: SW/4 of NE/4

## Notes





# Electronic Drilling Recorder

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

**Well Name:** Nichols 0994-13-18E  
**Rig:** 290

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

## Notes

Depth in ft (1:200)

Feb 8, 2018  
16:27

16:36

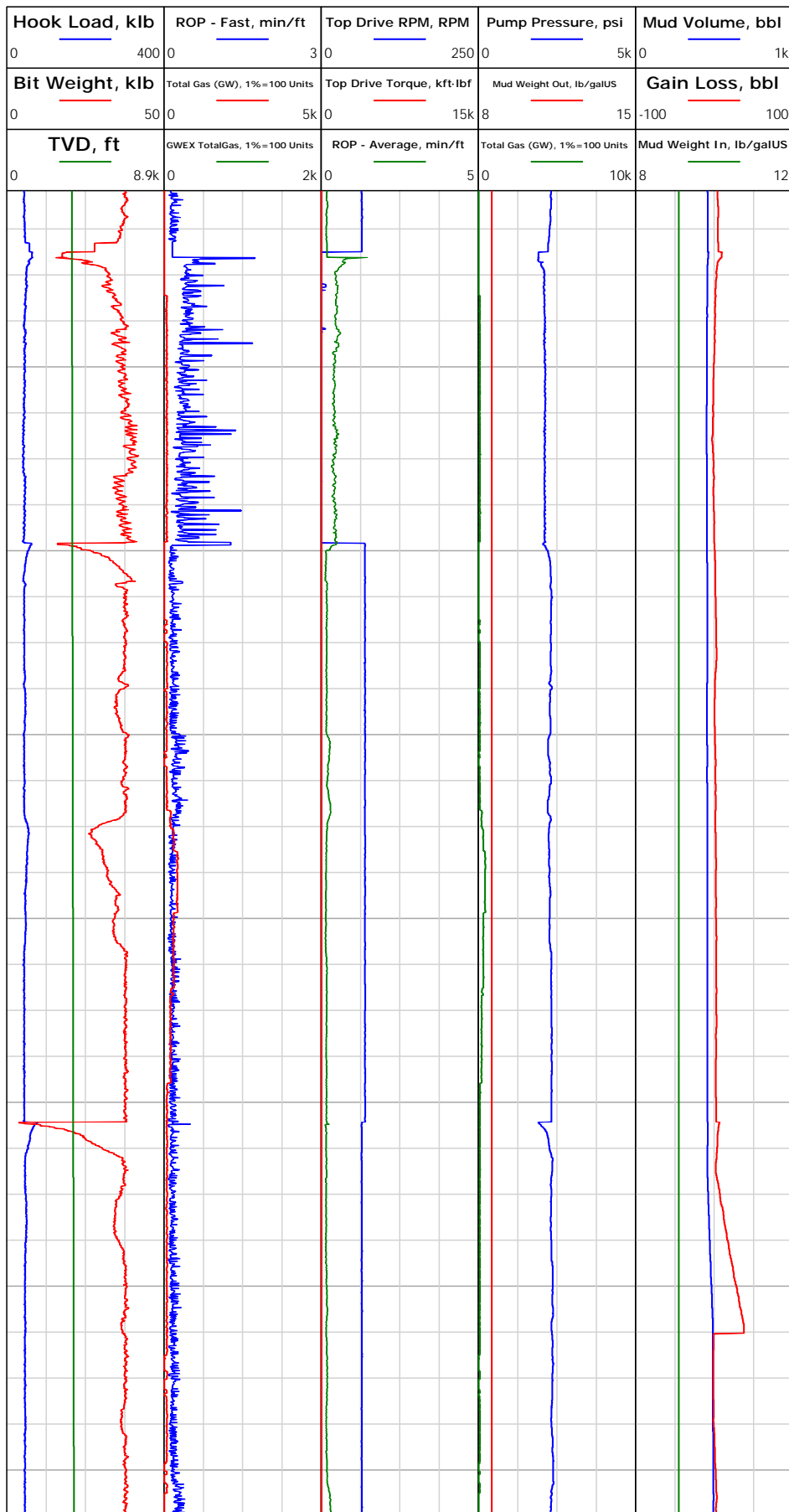
16:39

16:43

16:46

16:52

16:56





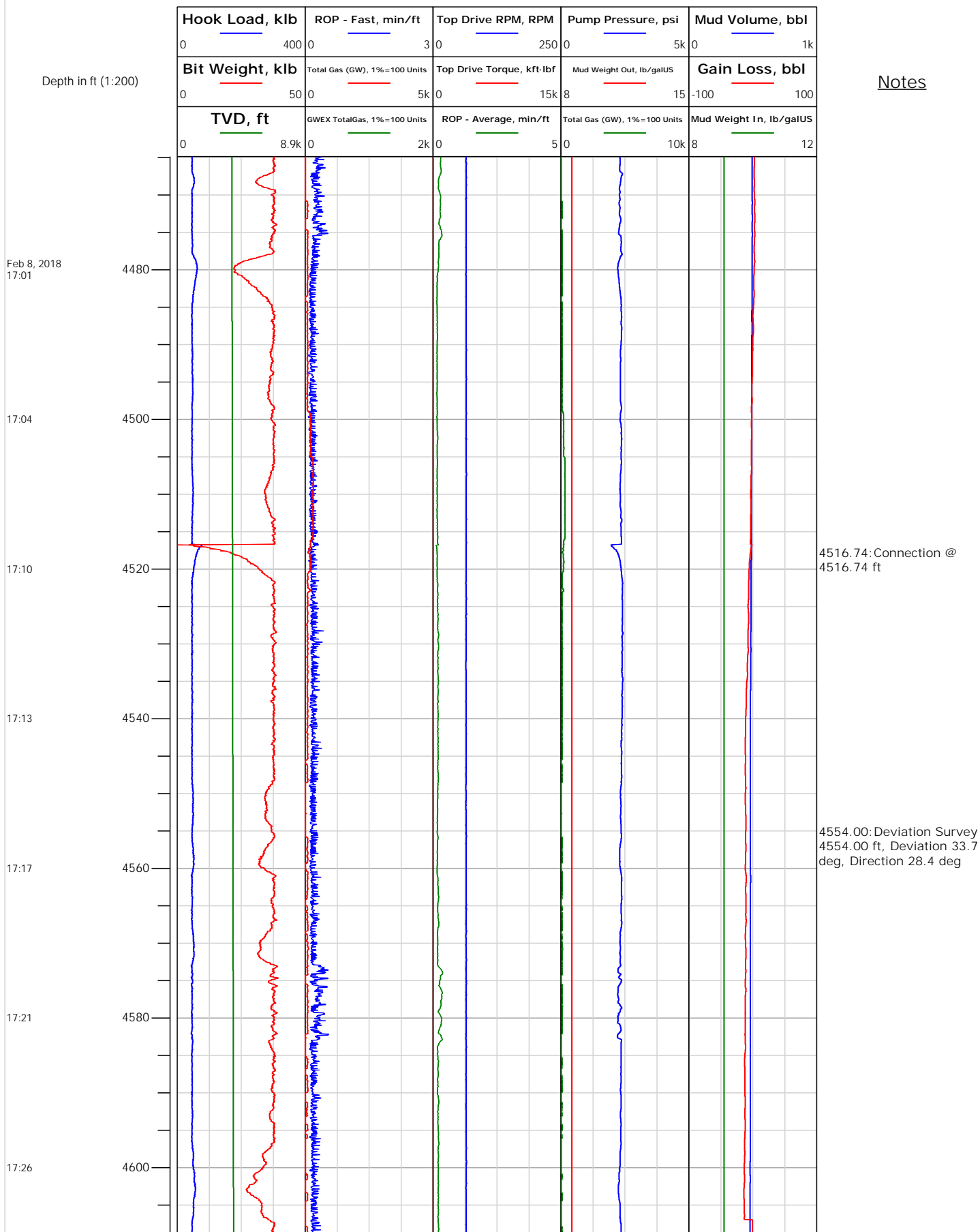
## Electronic Drilling Recorder

Operator: Laramie Energy  
Contractor: Helmerich & Payne Drlg Co

Well Name: Nichols 0994-13-18E  
Rig: 290

Location: SW/4 of NE/4

## Notes





## Electronic Drilling Recorder

Operator: Laramie Energy  
Contractor: Helmerich & Payne Drlg Co

Well Name: Nichols 0994-13-18E  
Rig: 290

Location: SW/4 of NE/4

## Notes

Depth in ft (1:200)

Feb 8, 2018  
17:35

17:44

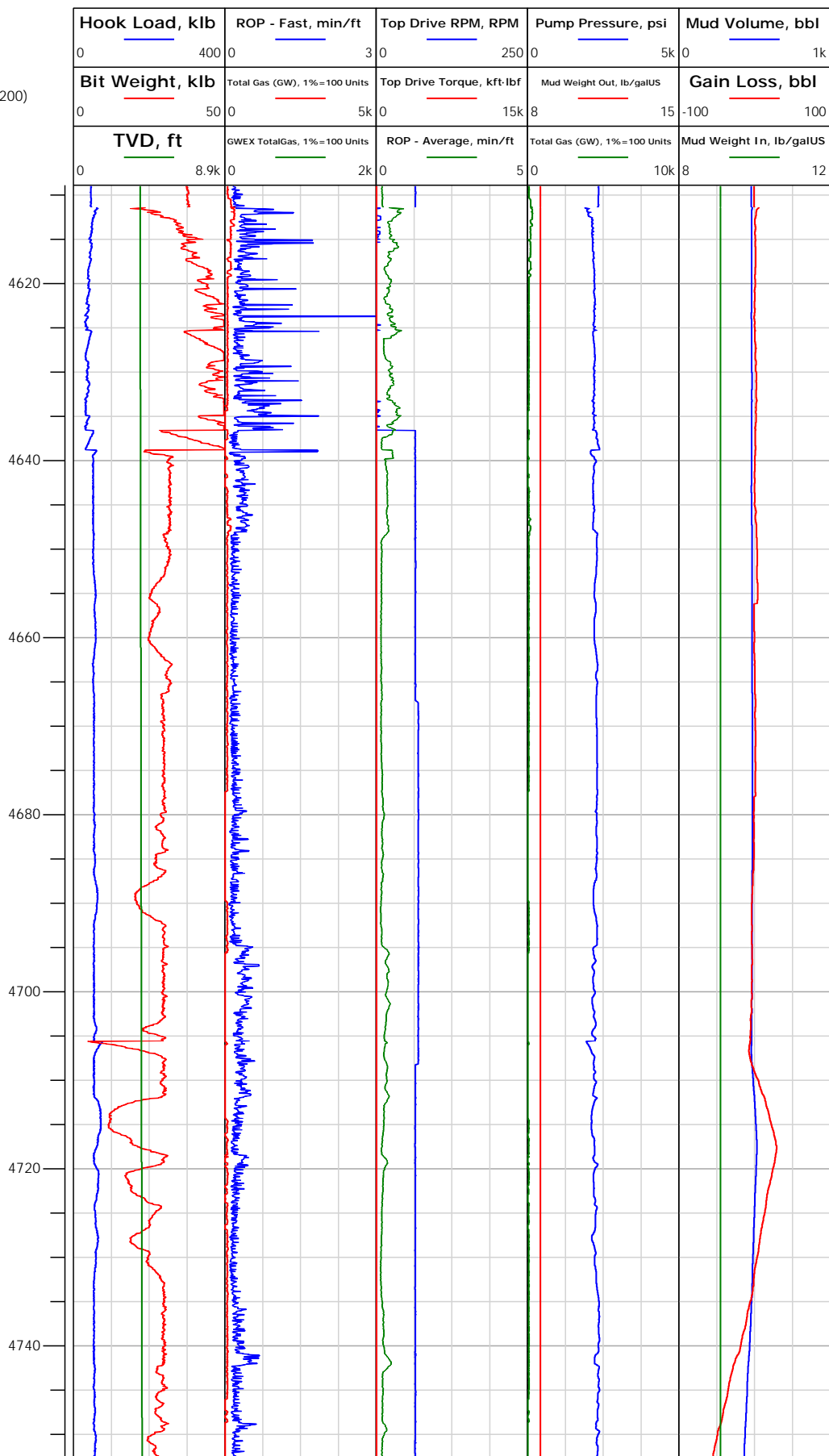
17:49

17:53

17:57

18:06

18:10



4611.27: Connection @  
4611.28 ft

4648.00: Deviation Survey  
4648.00 ft, Deviation 35  
deg, Direction 29.8 deg

4705.66: Connection @  
4705.66 ft

4743.00: Deviation Survey  
4743.00 ft, Deviation 33.9  
deg, Direction 28.4 deg

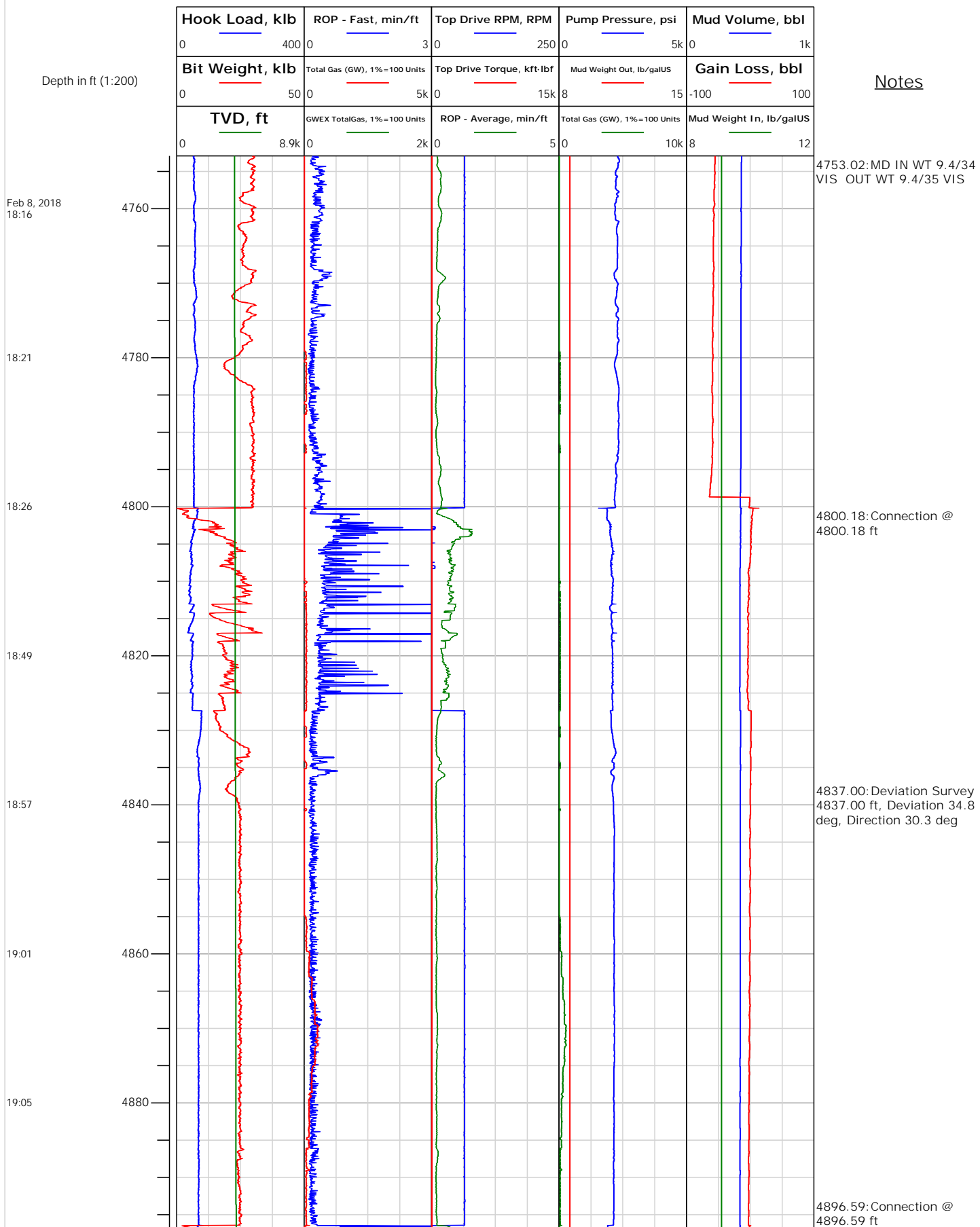


## Electronic Drilling Recorder

Operator: Laramie Energy  
Contractor: Helmerich & Payne Drlg Co

Well Name: Nichols 0994-13-18E  
Rig: 290

Location: SW/4 of NE/4





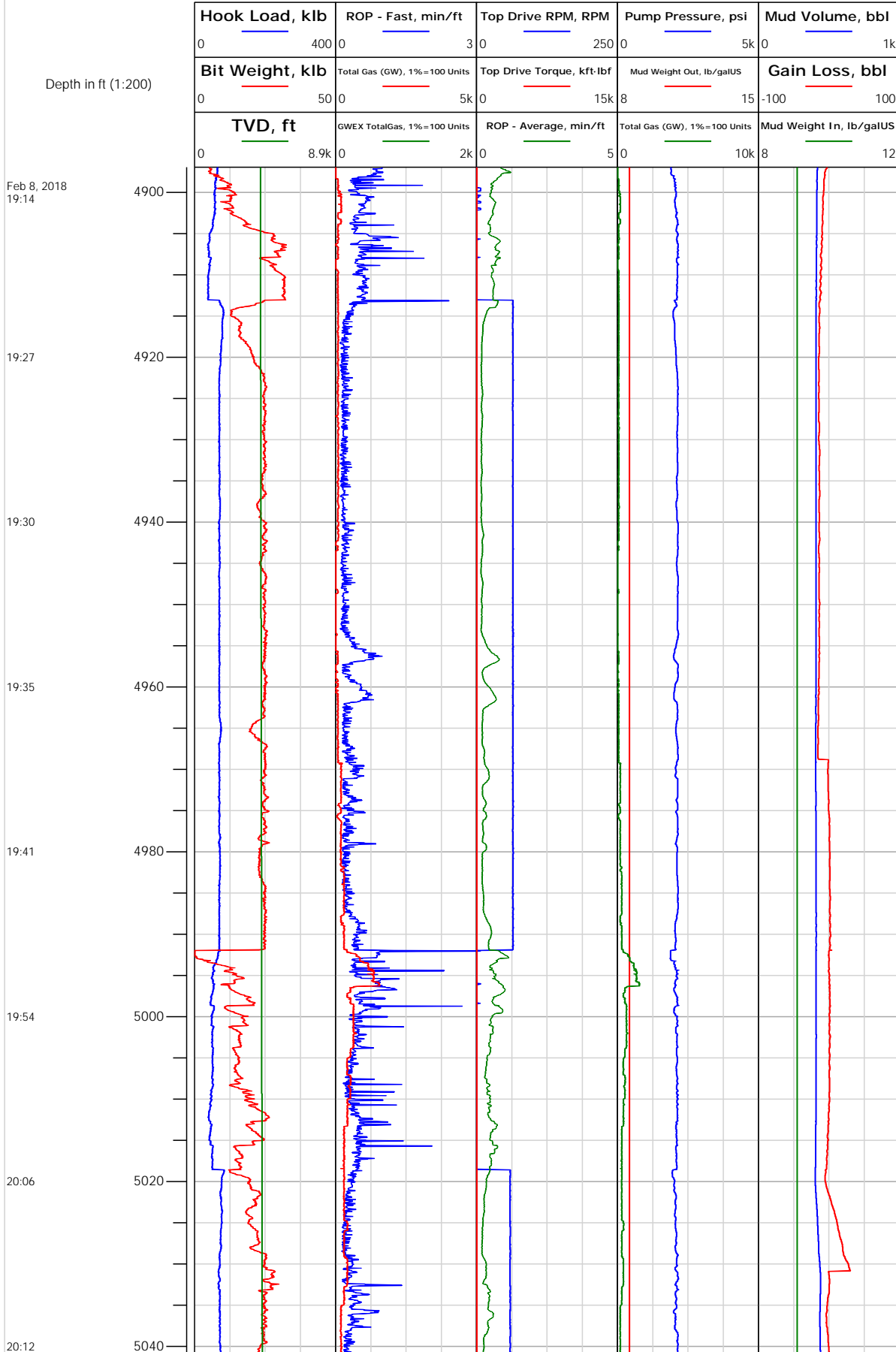
# Electronic Drilling Recorder

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

**Well Name:** Nichols 0994-13-18E  
**Rig:** 290

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

## Notes



4932.00: Deviation Survey  
4932.00 ft, Deviation 34  
deg, Direction 30.3 deg

4992.00: Connection @  
4992.00 ft

5010.79: MD IN WT 9.3/32  
VIS OUT WT 9.3/33 VIS

5026.00: Deviation Survey  
5026.00 ft, Deviation 33.7  
deg, Direction 27.9 deg



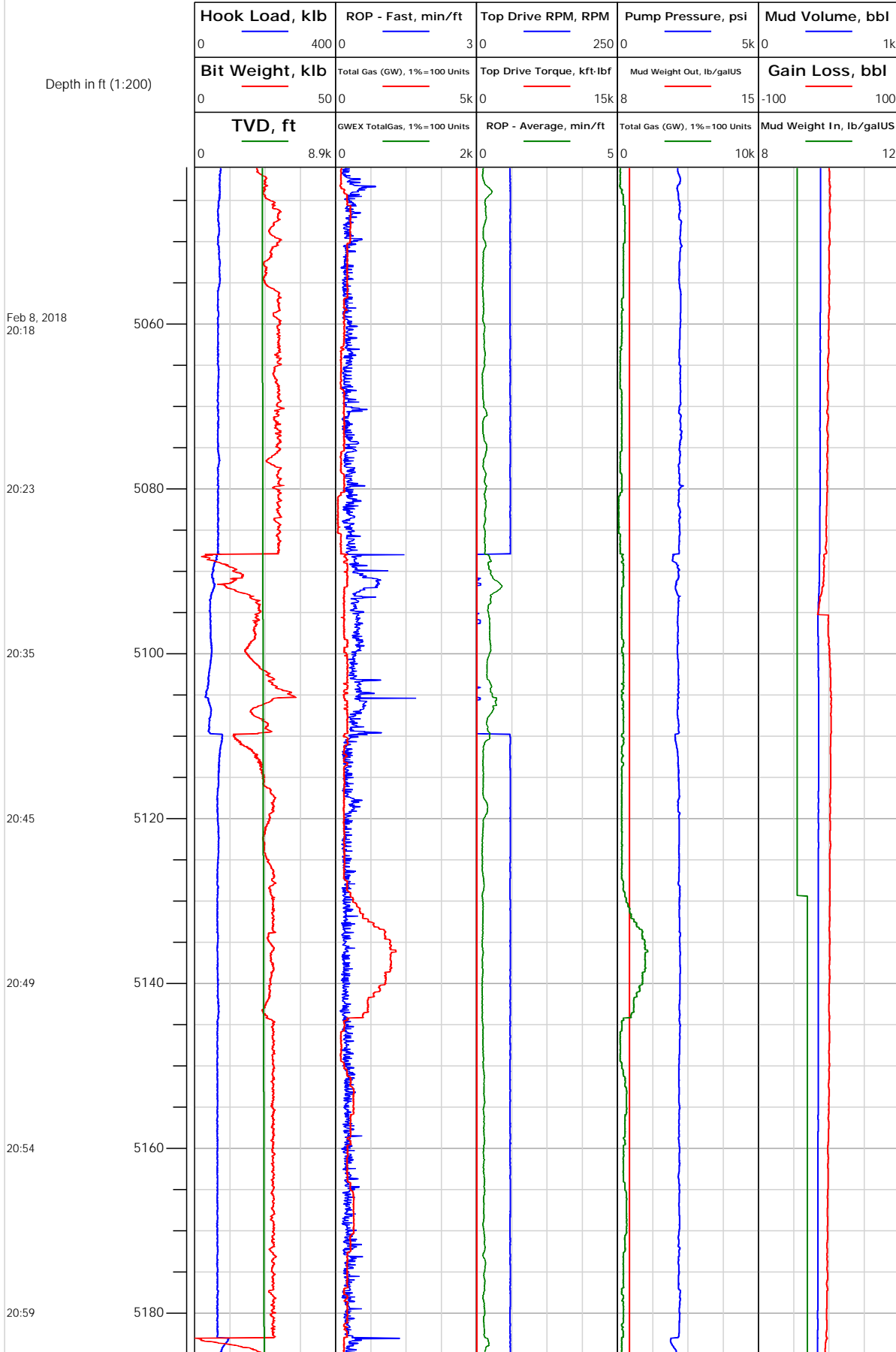
# Electronic Drilling Recorder

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

**Well Name:** Nichols 0994-13-18E  
**Rig:** 290

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

Notes





# Electronic Drilling Recorder

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

**Well Name:** Nichols 0994-13-18E  
**Rig:** 290

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

## Notes

Depth in ft (1:200)

Feb 8, 2018  
21:06

21:11

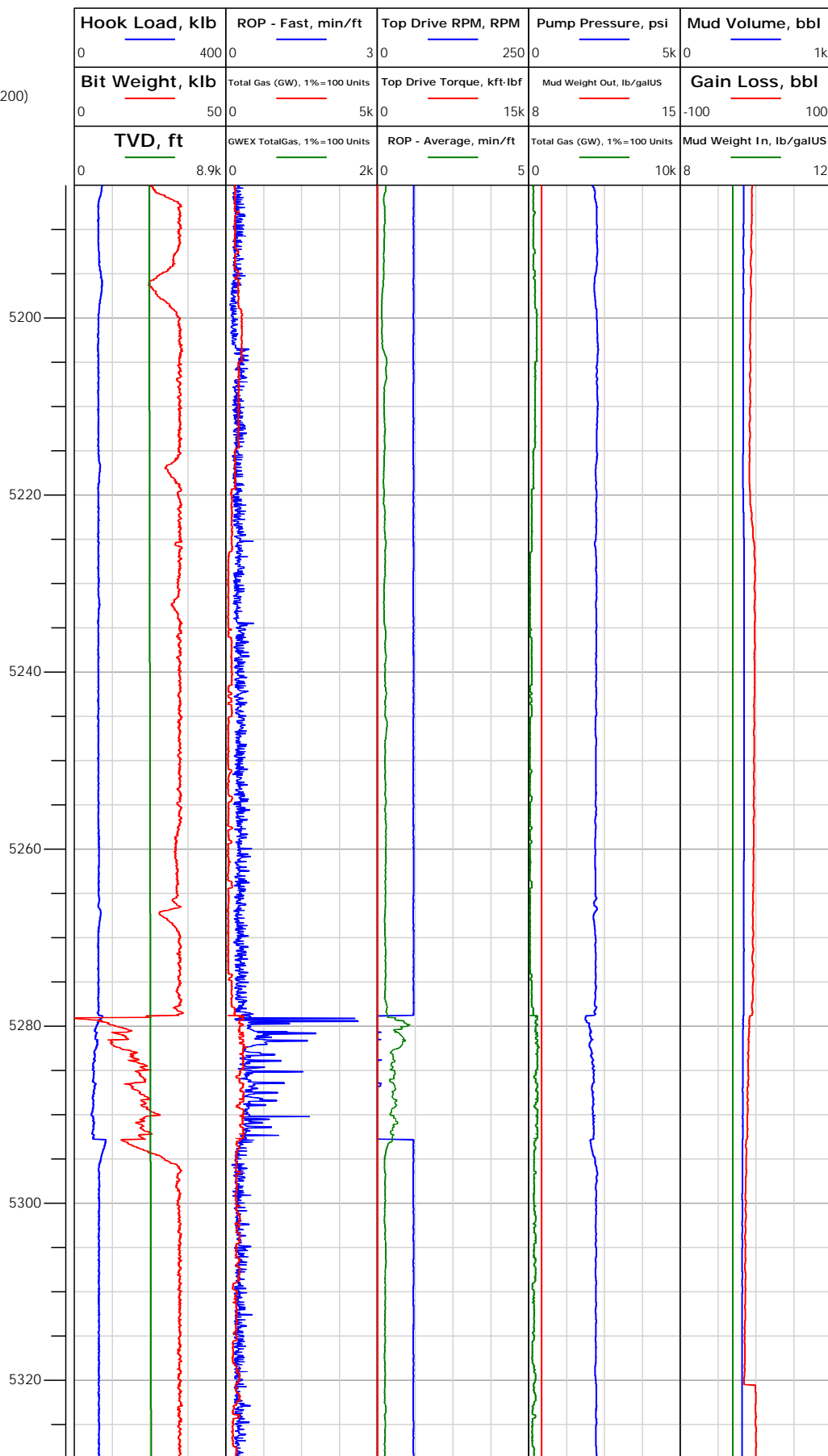
21:16

21:21

21:34

21:45

21:50



5195.52:MD IN WT 9.2/32  
VIS OUT WT 9.3/32 VIS

5215.00: Deviation Survey  
5215.00 ft, Deviation 32.9  
deg, Direction 24.1 deg

5310.00: Deviation Survey  
5310.00 ft, Deviation 31  
deg, Direction 22.3 deg



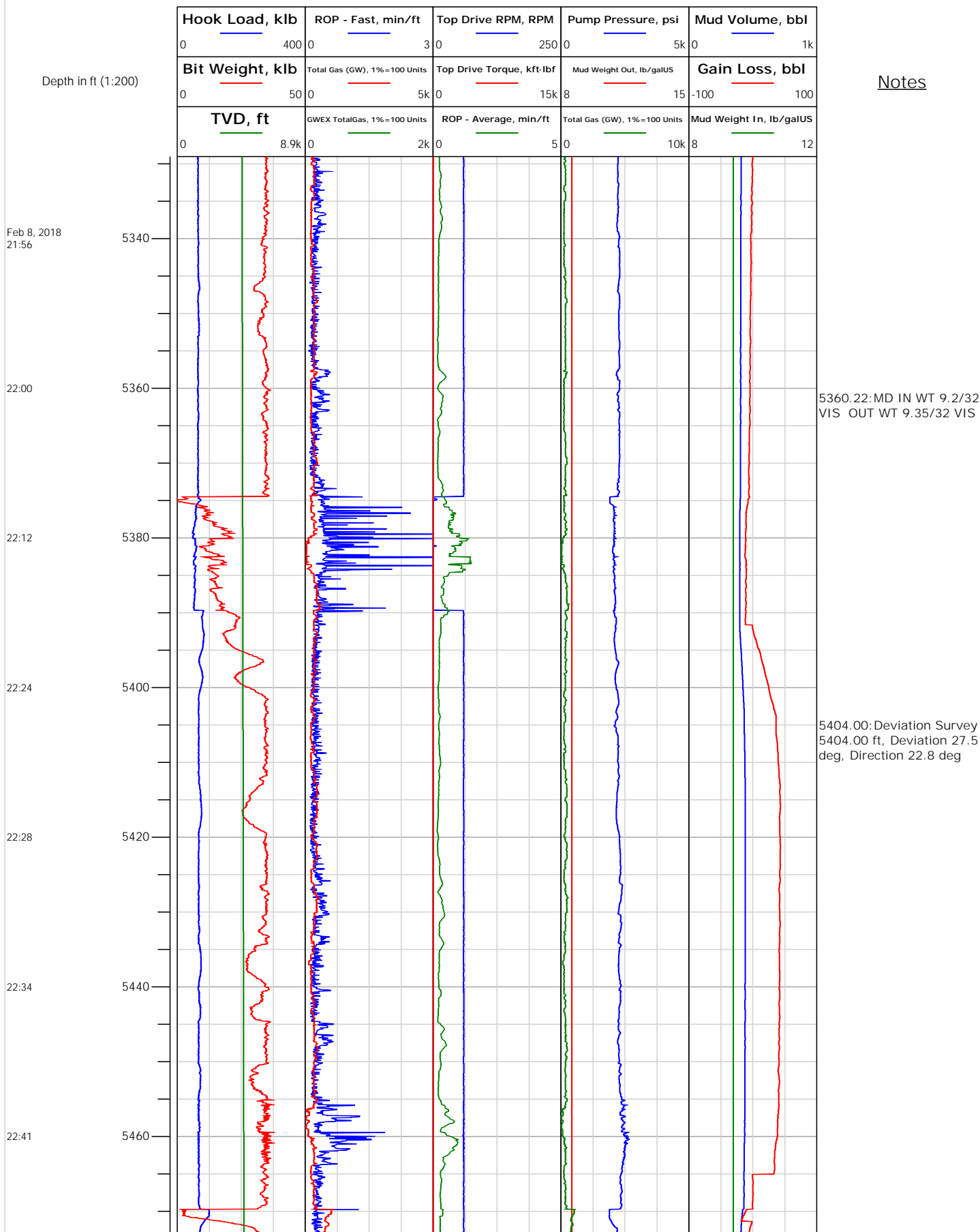
# Electronic Drilling Recorder

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

**Well Name:** Nichols 0994-13-18E  
**Rig:** 290

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

Notes





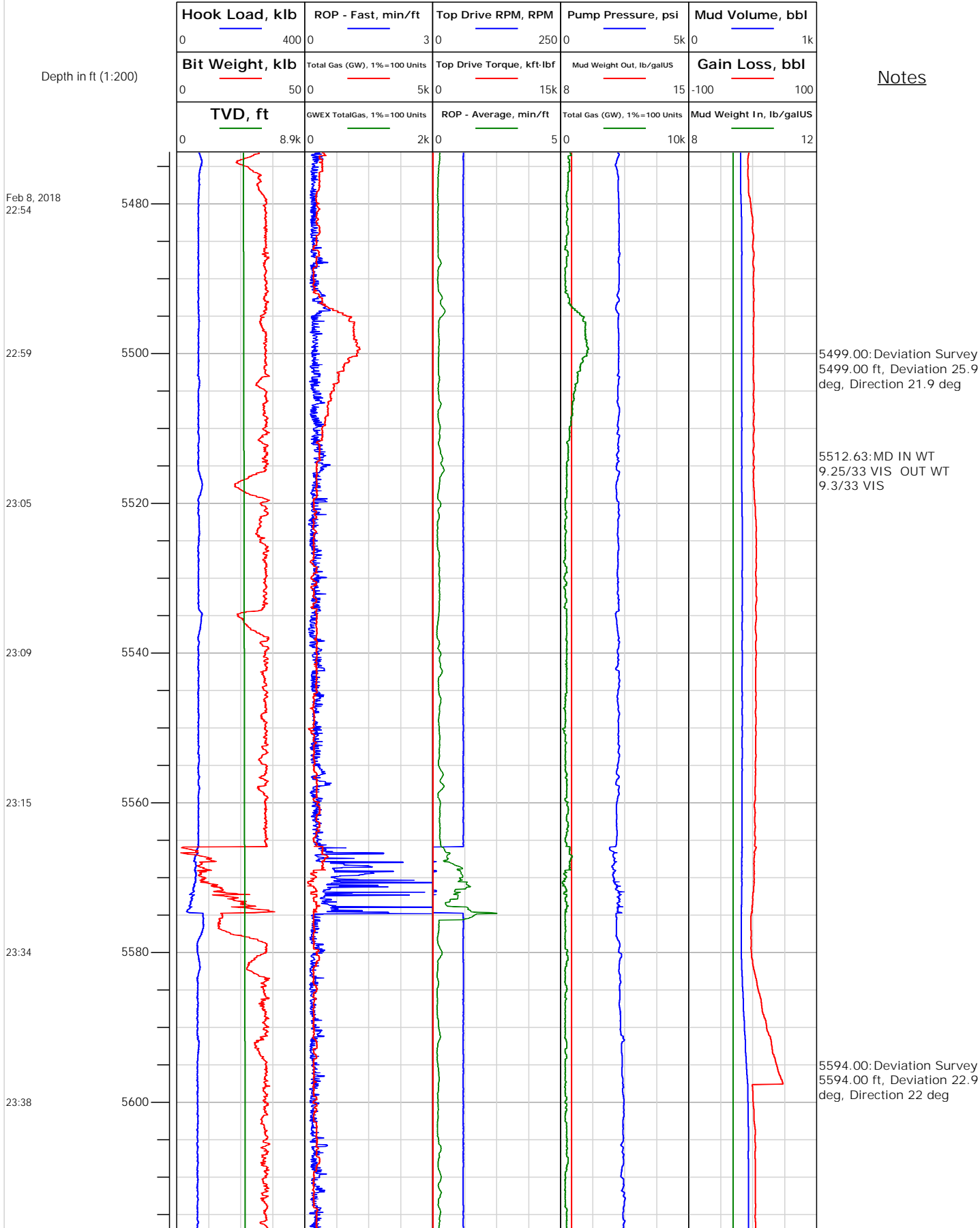
# Electronic Drilling Recorder

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

**Well Name:** Nichols 0994-13-18E  
**Rig:** 290

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

## Notes





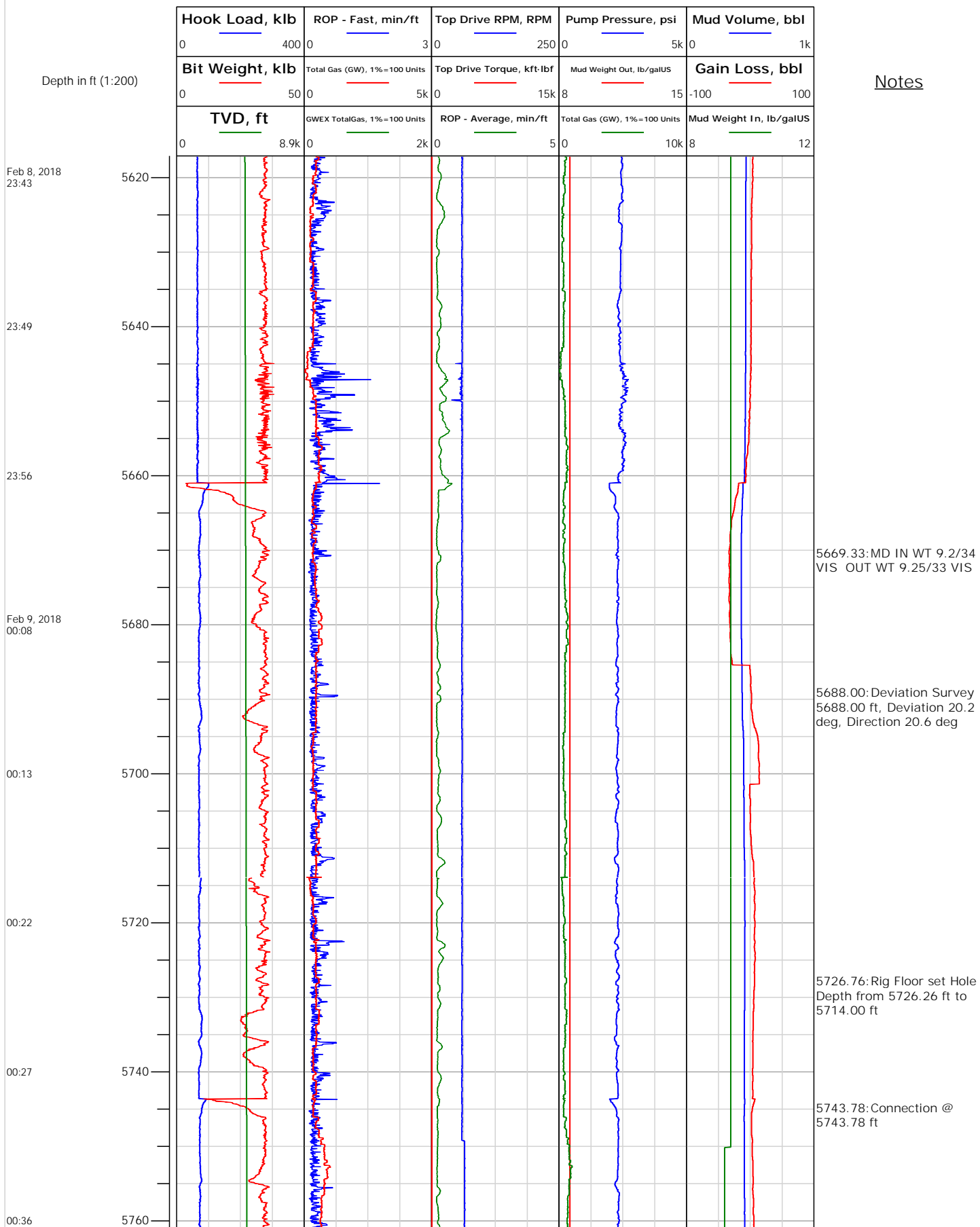
# Electronic Drilling Recorder

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

**Well Name:** Nichols 0994-13-18E  
**Rig:** 290

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

Notes





# Electronic Drilling Recorder

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

**Well Name:** Nichols 0994-13-18E  
**Rig:** 290

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

## Notes

Depth in ft (1:200)

Feb 9, 2018  
00:42

00:47

00:53

01:03

01:22

01:27

01:32

5780

5800

5820

5840

5860

5880

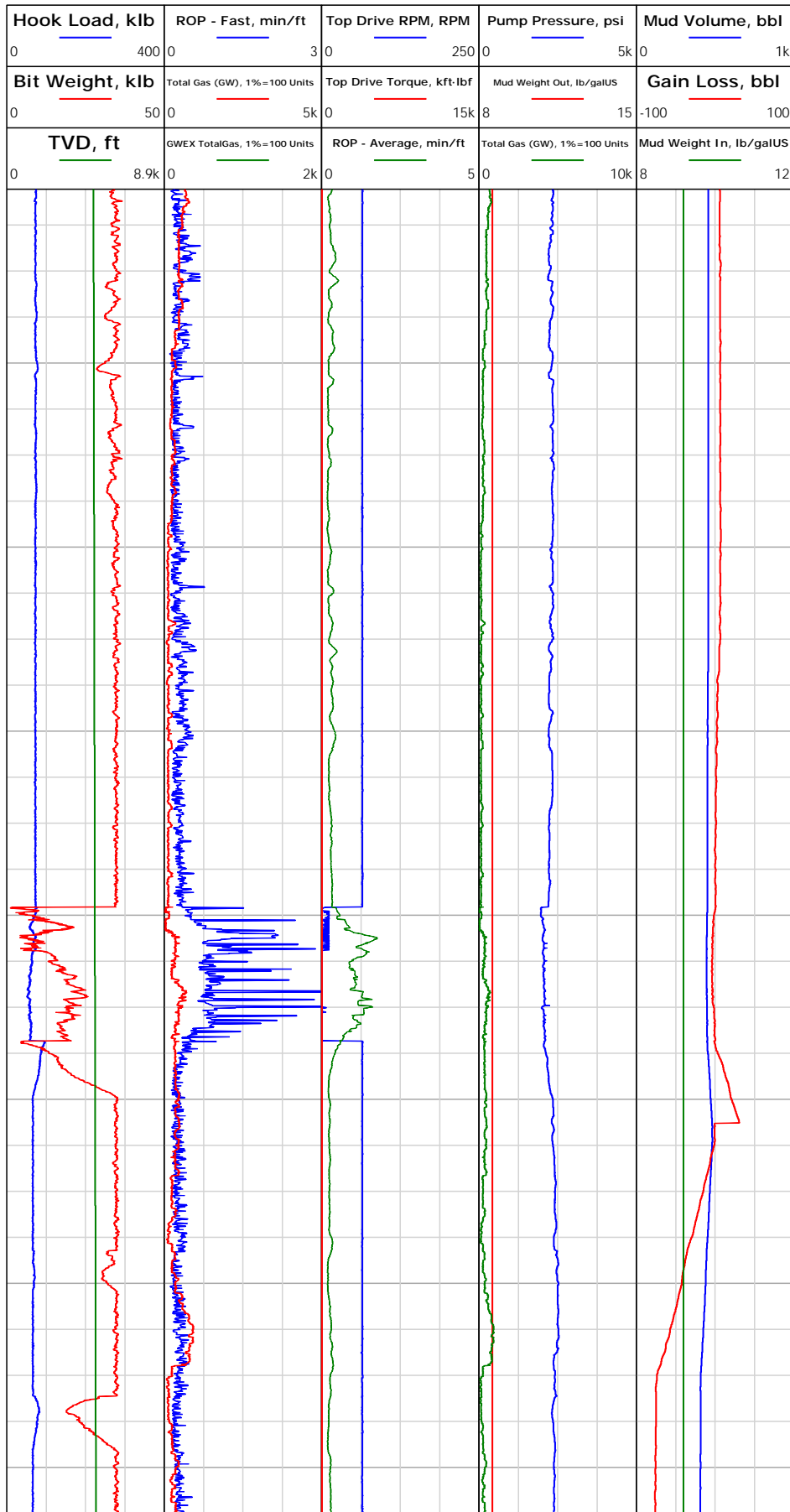
5900

5783.00: Deviation Survey  
5783.00 ft, Deviation 17.9  
deg, Direction 18.8 deg

5839.21: Connection @  
5839.21 ft

5849.78: MD IN WT  
9.25/34 VIS OUT WT  
9.3/34 VIS

5877.00: Deviation Survey  
5877.00 ft, Deviation 16.3  
deg, Direction 22.9 deg





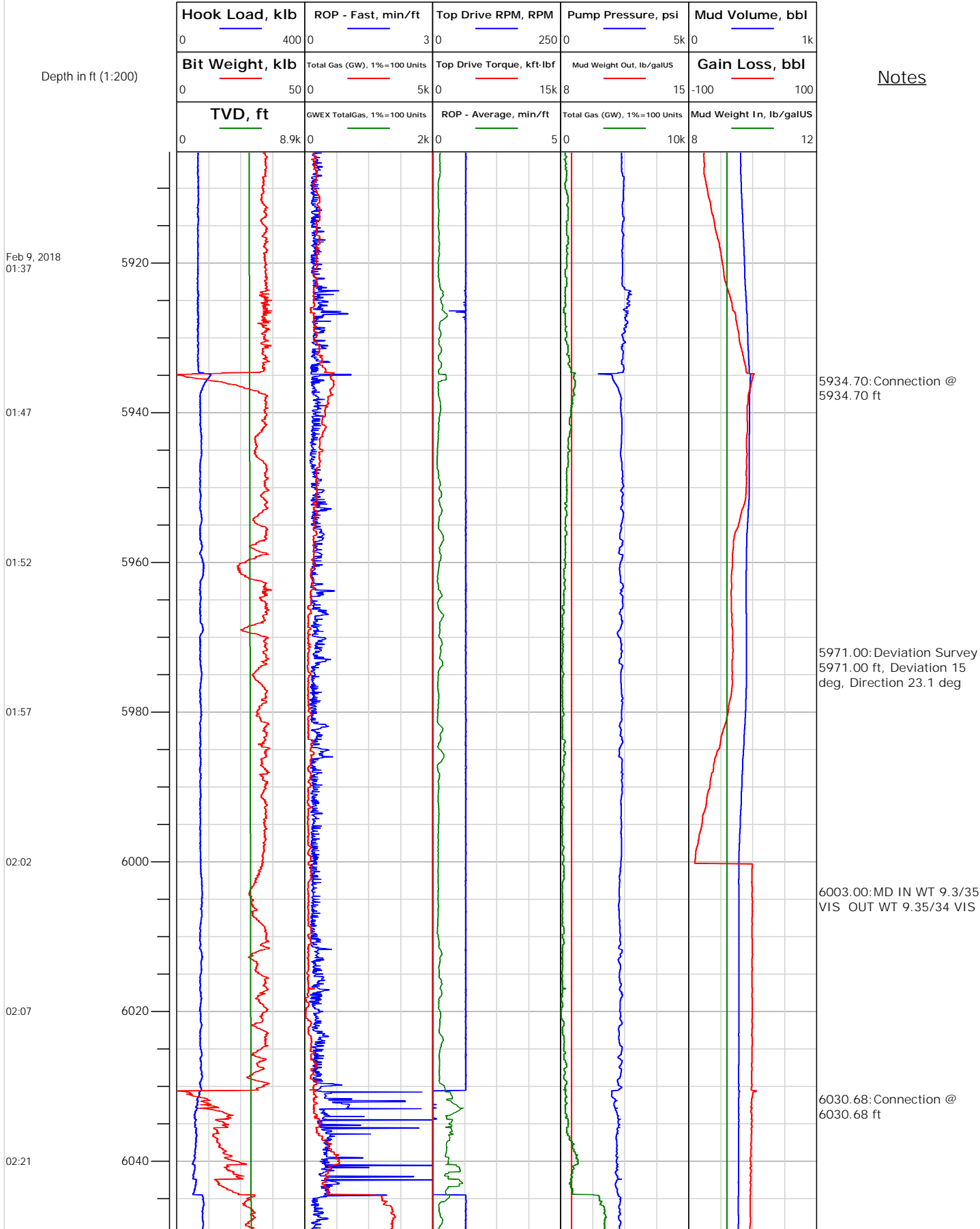
# Electronic Drilling Recorder

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

**Well Name:** Nichols 0994-13-18E  
**Rig:** 290

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

## Notes





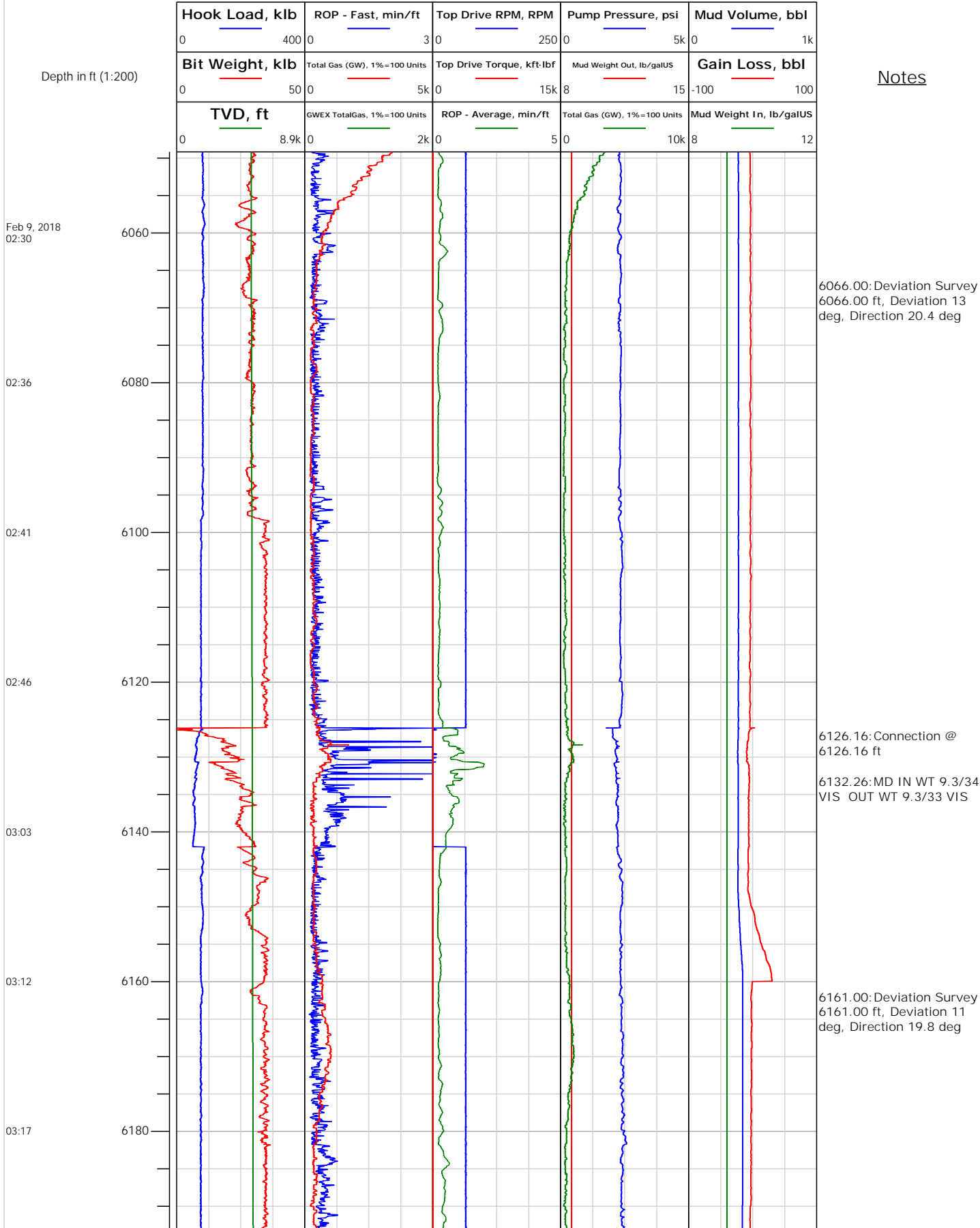
# Electronic Drilling Recorder

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

**Well Name:** Nichols 0994-13-18E  
**Rig:** 290

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

## Notes





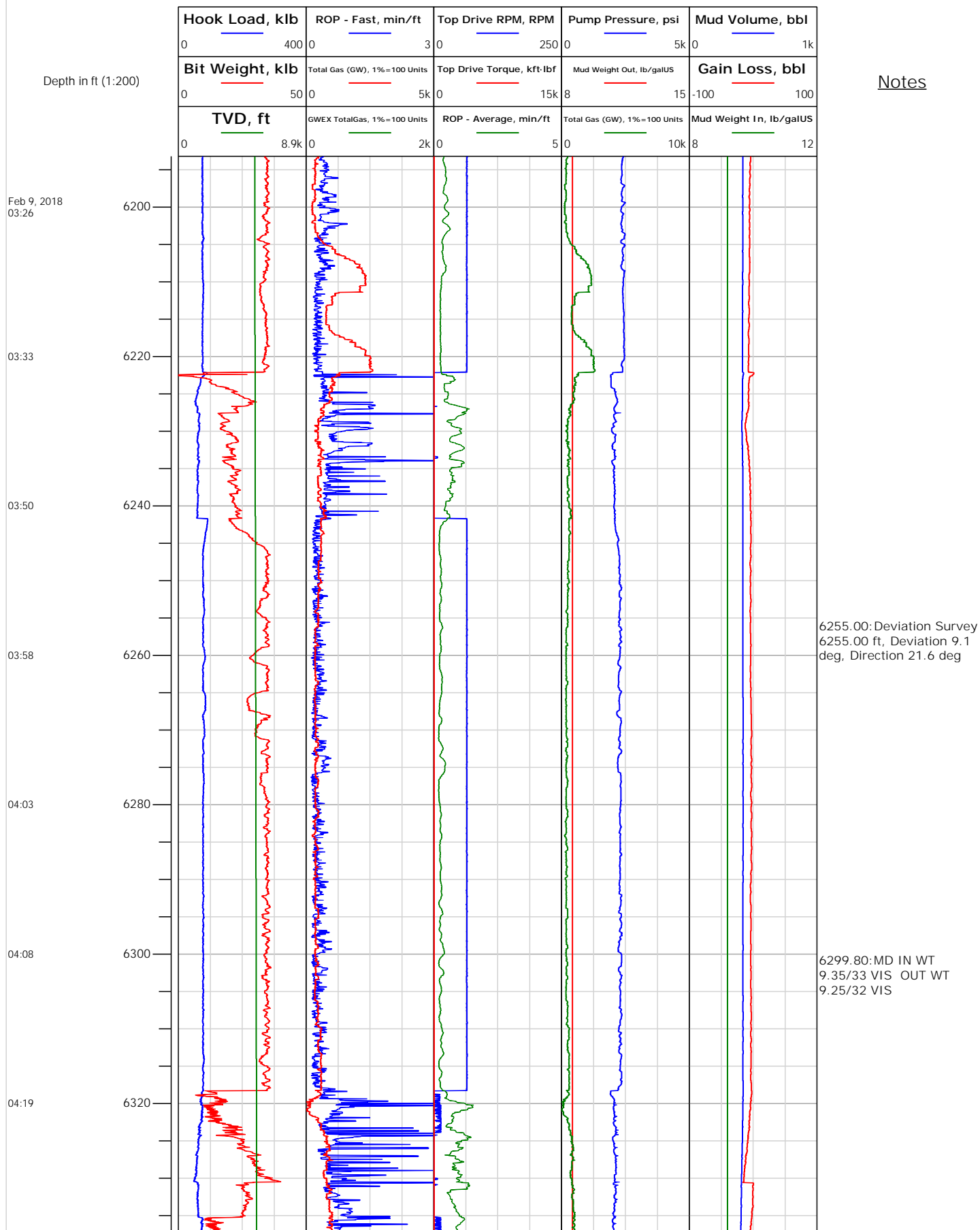
# Electronic Drilling Recorder

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

**Well Name:** Nichols 0994-13-18E  
**Rig:** 290

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

Notes





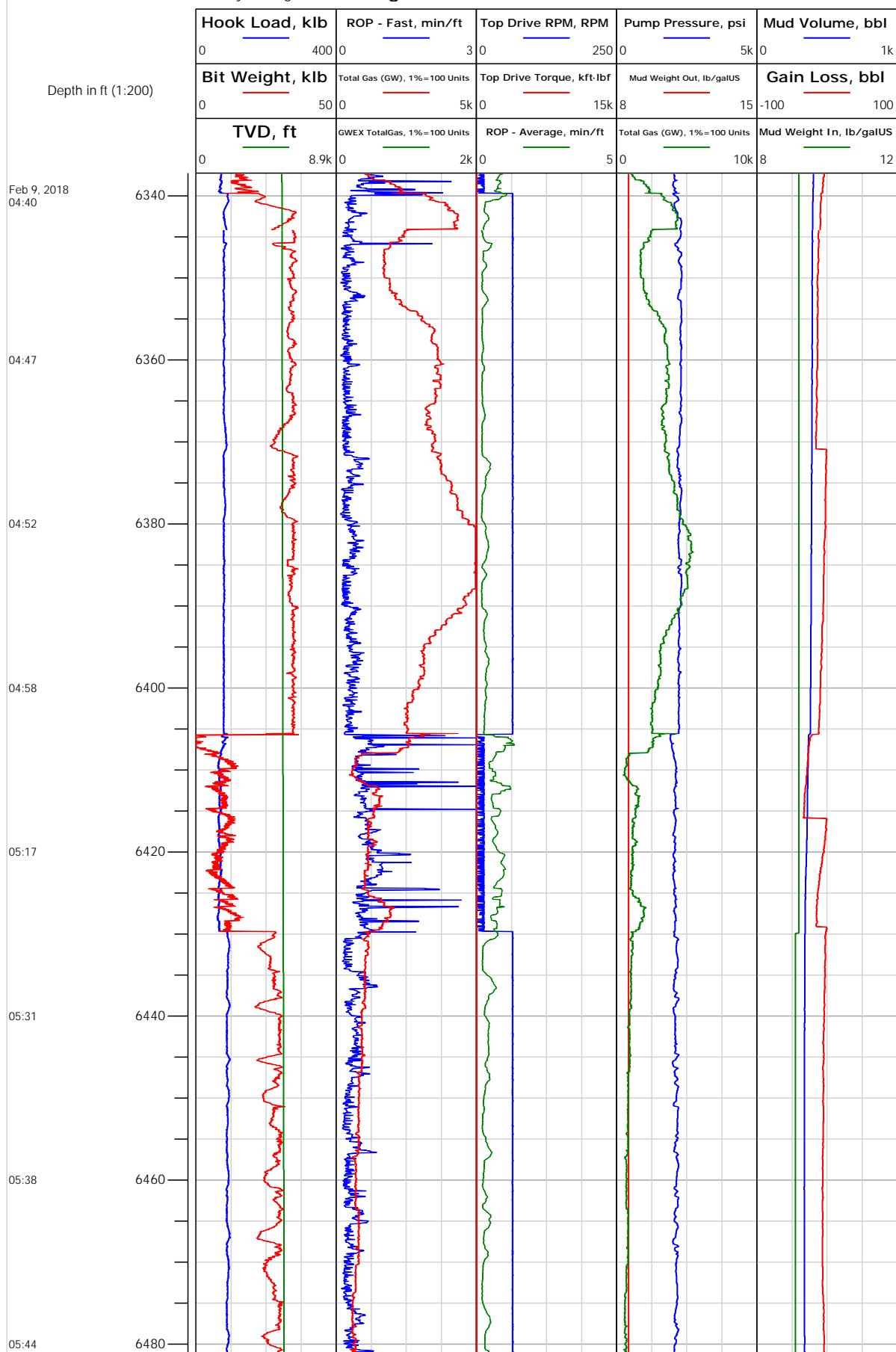
# Electronic Drilling Recorder

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

**Well Name:** Nichols 0994-13-18E  
**Rig:** 290

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

## Notes





# Electronic Drilling Recorder

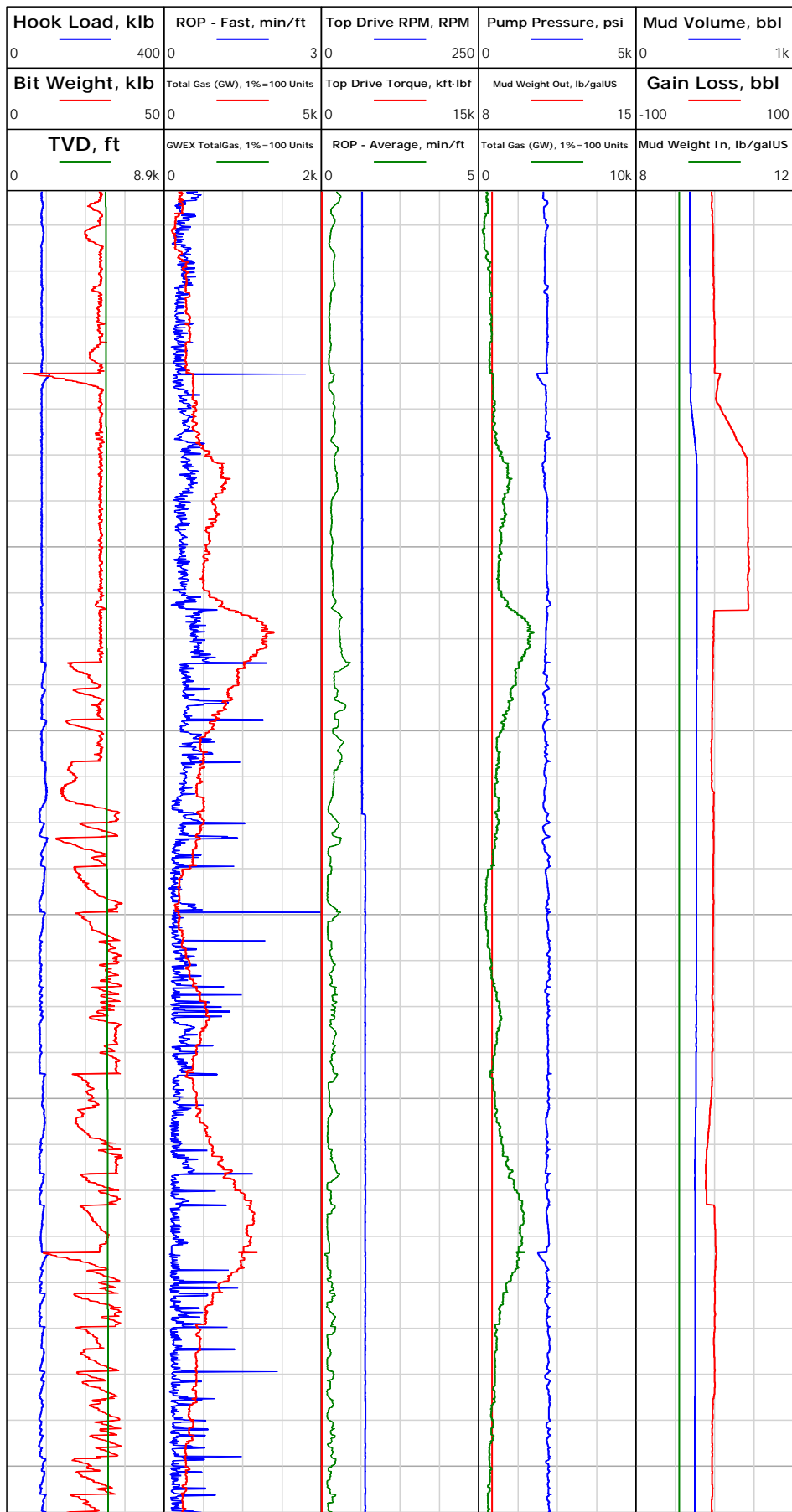
**Operator:** Laramie Energy  
**Contractor:** Helmerich & Payne Drlg Co

**Well Name:** Nichols 0994-13-18E  
**Rig:** 290

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

## Notes

Depth in ft (1:200)



Feb 9, 2018  
05:51

06:03

06:12

06:20

06:27

06:37

06:43

6501.08: Connection @  
6501.08 ft

6539.00: Deviation Survey  
6539.00 ft, Deviation 3.7  
deg, Direction 28.6 deg

6596.91: Connection @  
6596.91 ft



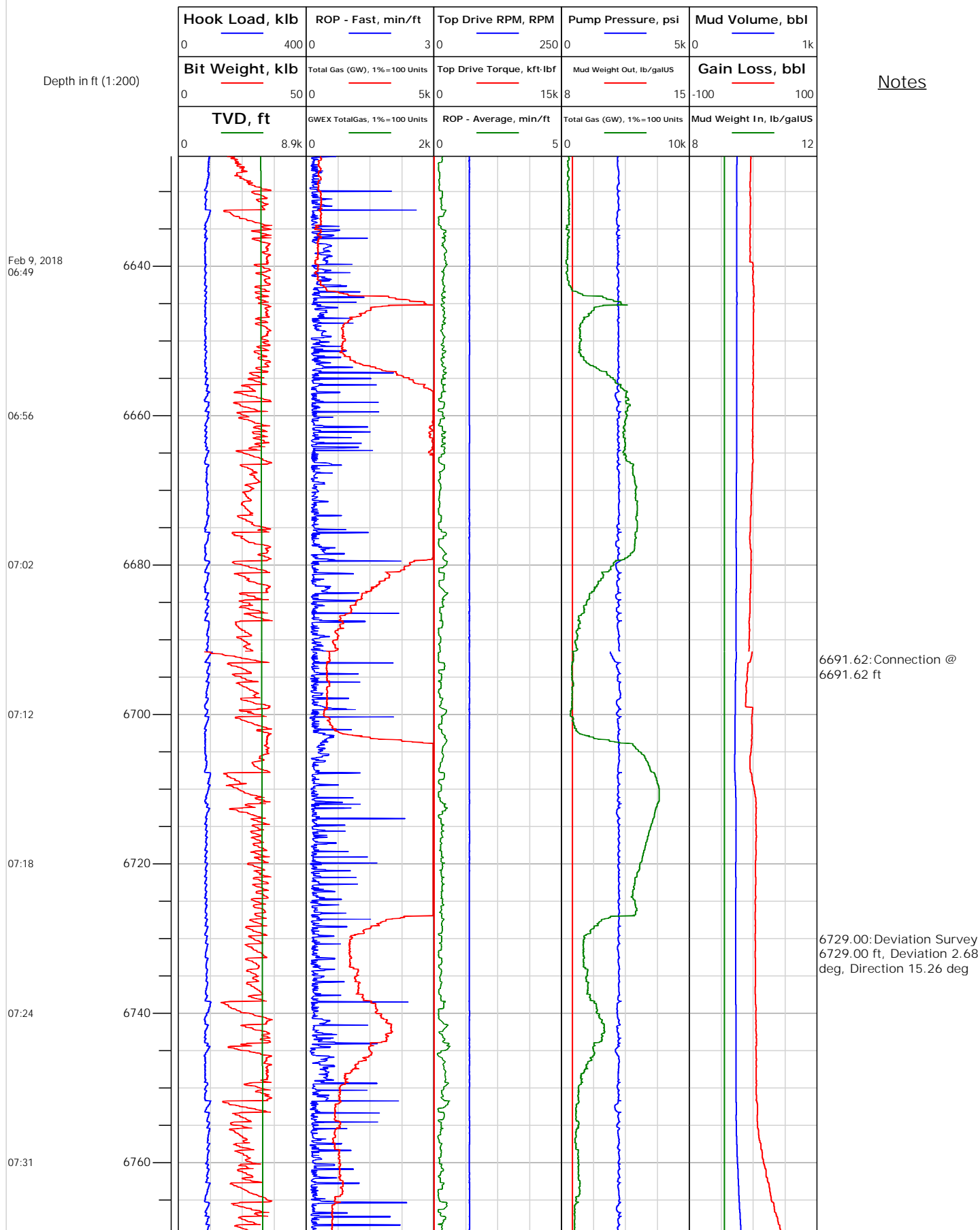
## Electronic Drilling Recorder

Operator: Laramie Energy  
Contractor: Helmerich & Payne Drlg Co

Well Name: Nichols 0994-13-18E  
Rig: 290

Location: SW/4 of NE/4

Notes





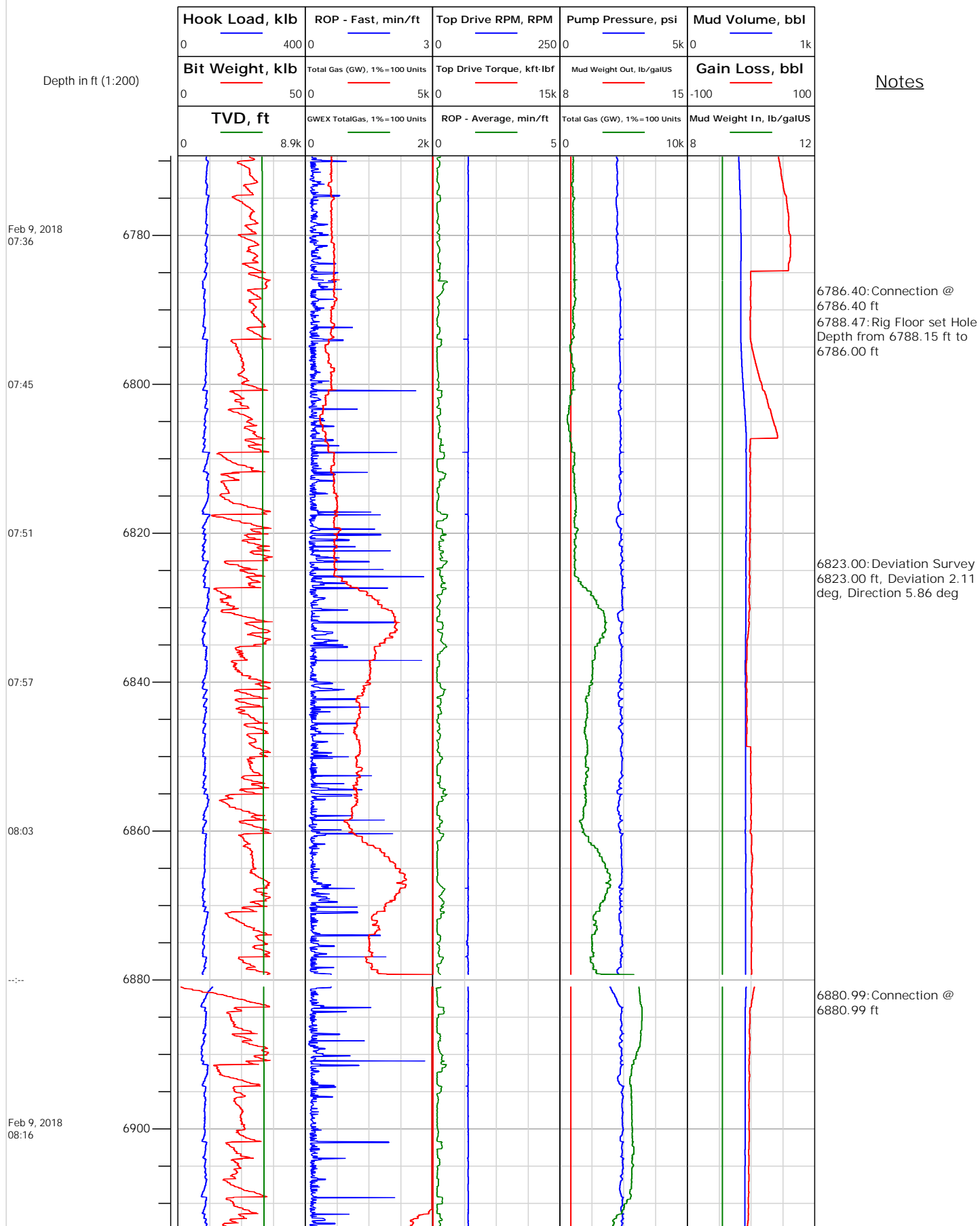
## Electronic Drilling Recorder

Operator: Laramie Energy  
Contractor: Helmerich & Payne Drlg Co

Well Name: Nichols 0994-13-18E  
Rig: 290

Location: SW/4 of NE/4

## Notes





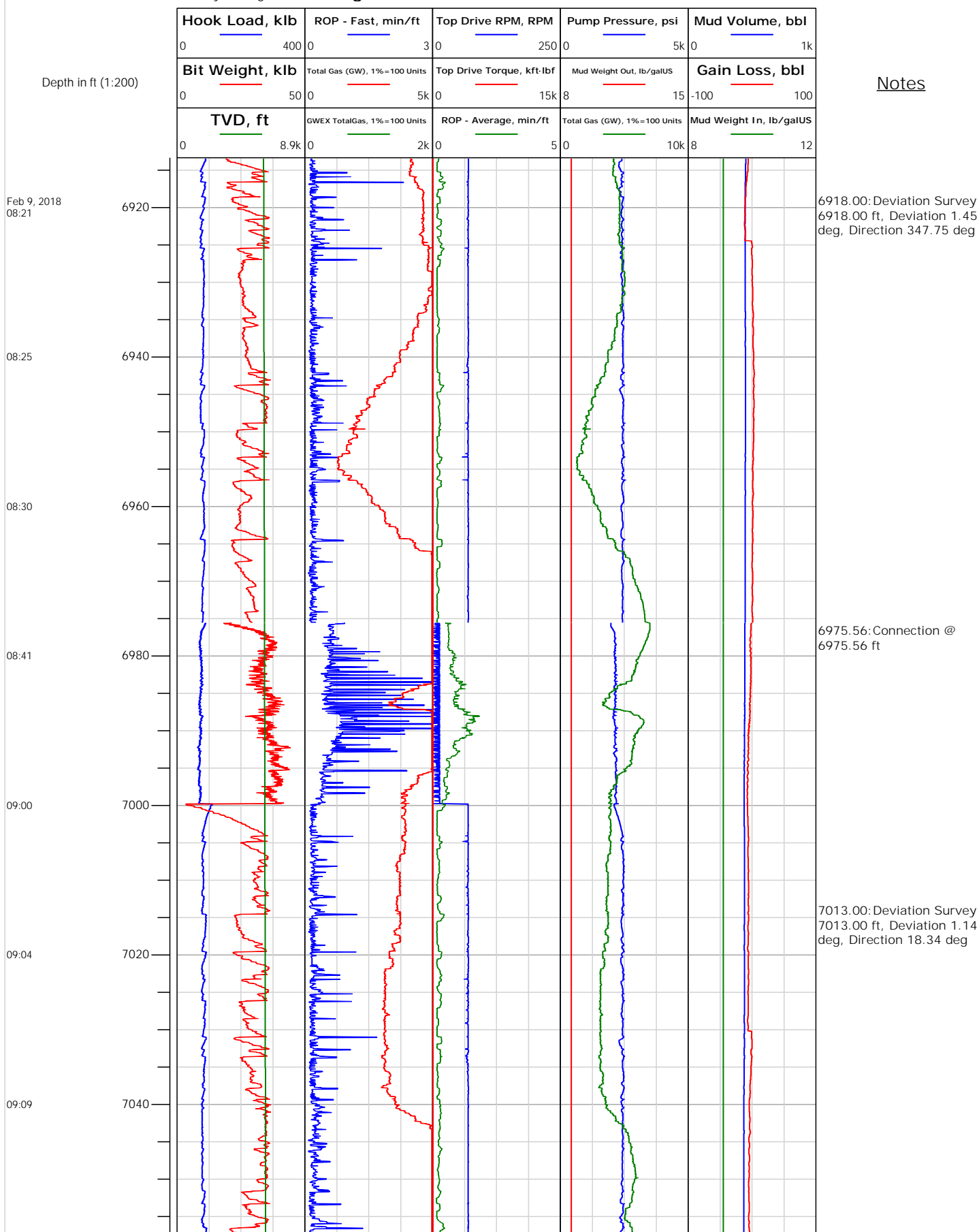
# Electronic Drilling Recorder

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

**Well Name:** Nichols 0994-13-18E  
**Rig:** 290

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

## Notes



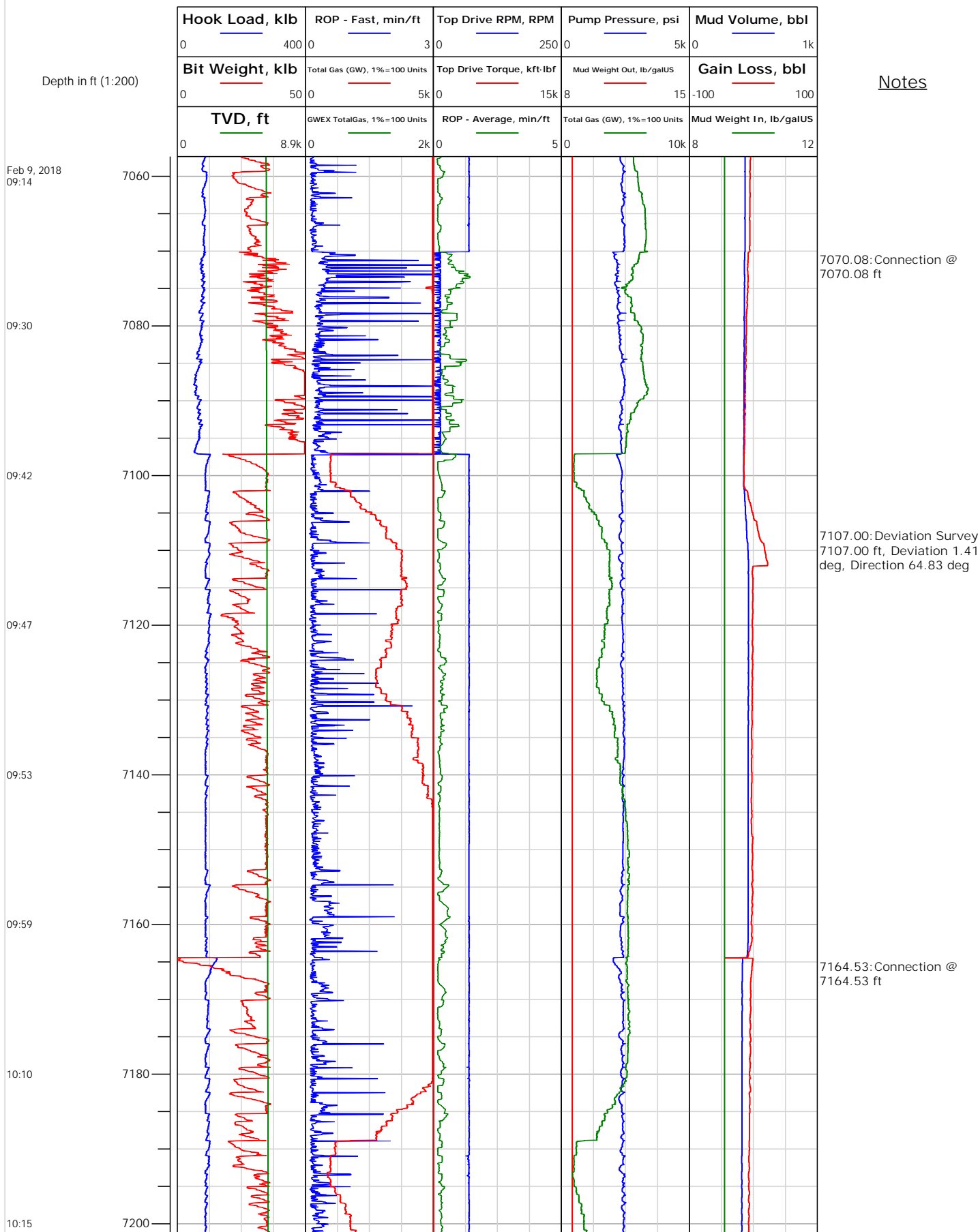


# Electronic Drilling Recorder

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

**Well Name:** Nichols 0994-13-18E  
**Rig:** 290

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





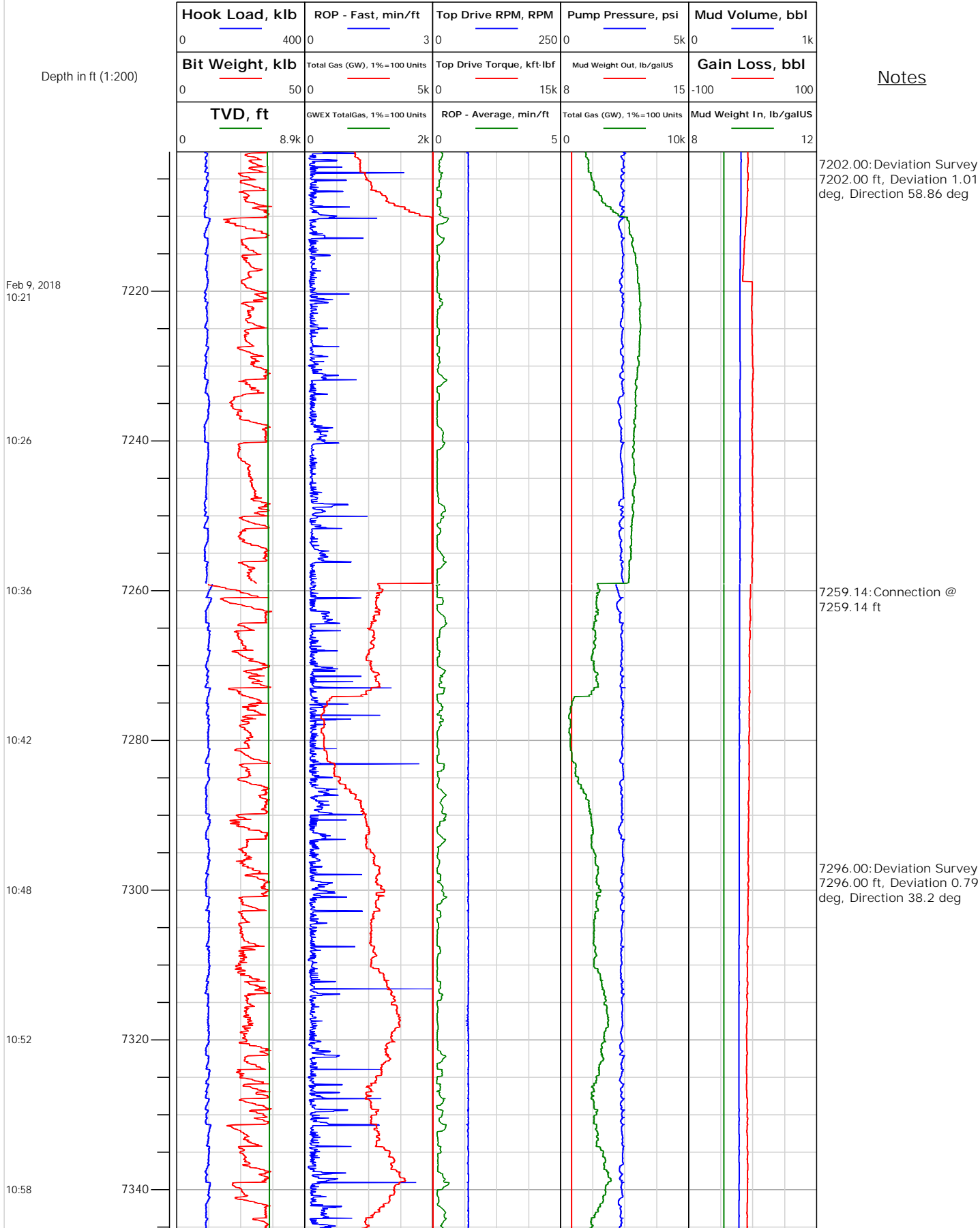
# Electronic Drilling Recorder

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

**Well Name:** Nichols 0994-13-18E  
**Rig:** 290

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

## Notes





# Electronic Drilling Recorder

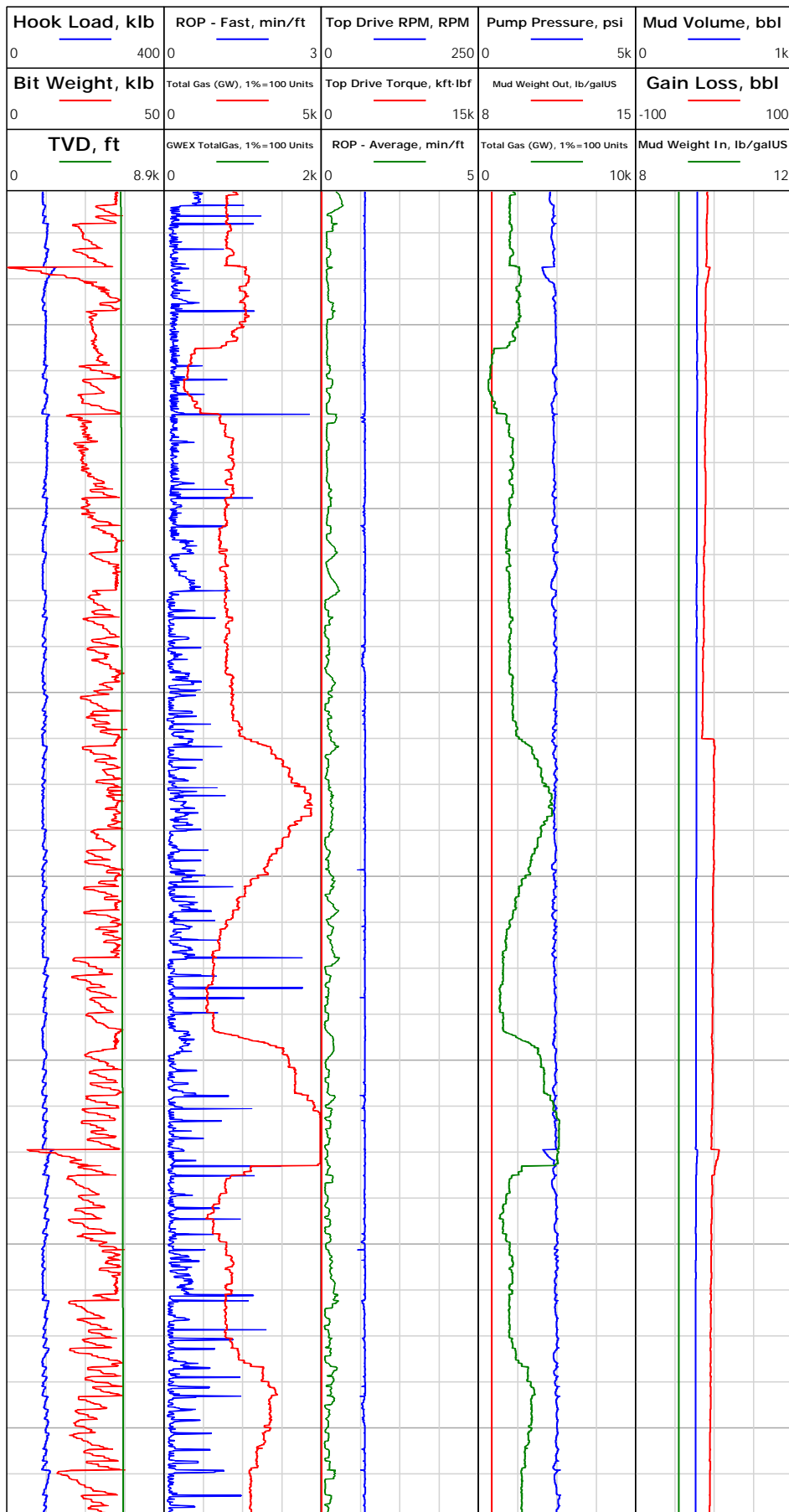
**Operator:** Laramie Energy  
**Contractor:** Helmerich & Payne Drlg Co

**Well Name:** Nichols 0994-13-18E  
**Rig:** 290

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

## Notes

Depth in ft (1:200)



Feb 9, 2018  
11:08

11:13

11:18

11:23

11:29

11:37

11:43



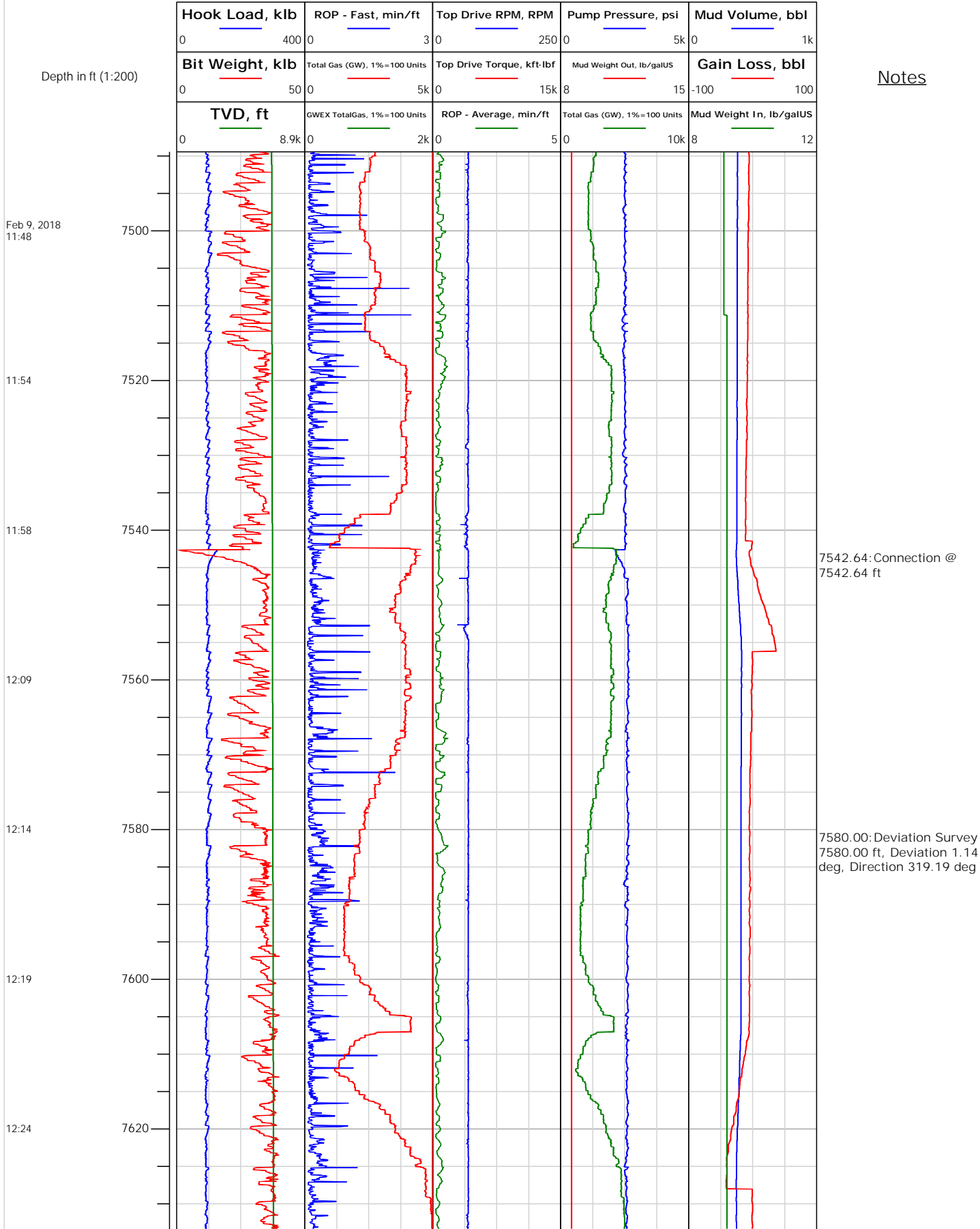
# Electronic Drilling Recorder

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

**Well Name:** Nichols 0994-13-18E  
**Rig:** 290

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

Notes





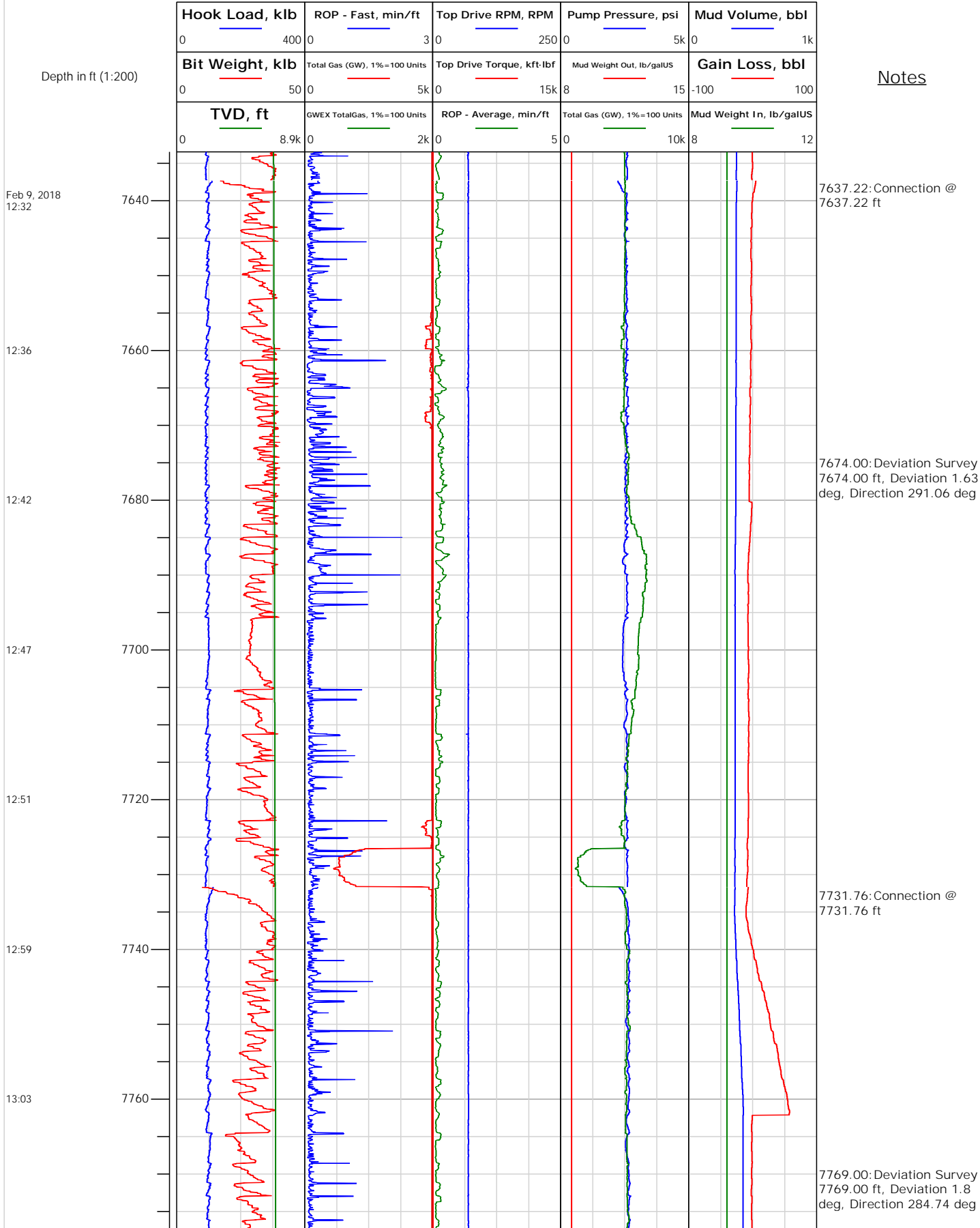
# Electronic Drilling Recorder

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

**Well Name:** Nichols 0994-13-18E  
**Rig:** 290

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

## Notes





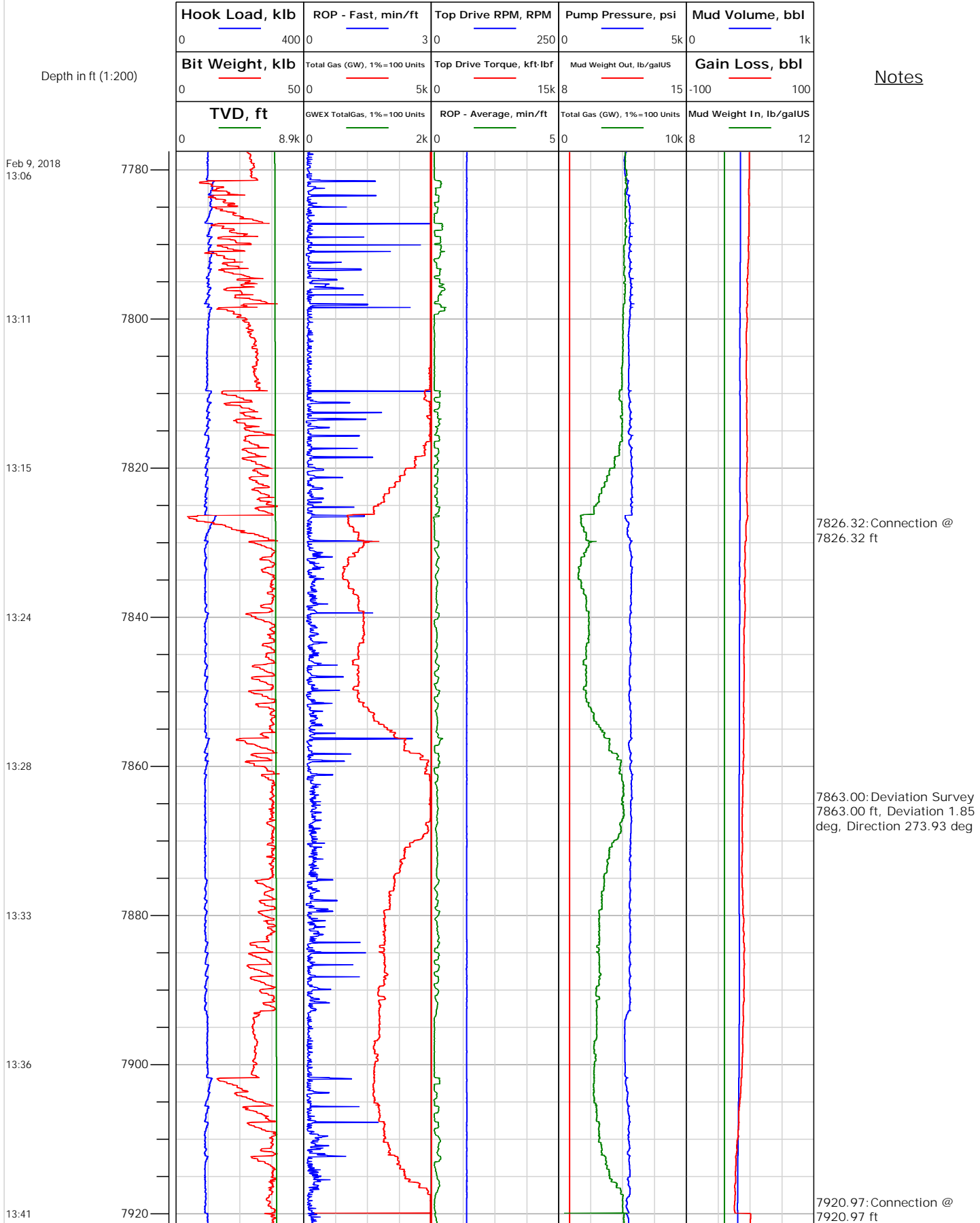
# Electronic Drilling Recorder

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

**Well Name:** Nichols 0994-13-18E  
**Rig:** 290

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

Notes





## Electronic Drilling Recorder

Operator: Laramie Energy  
Contractor: Helmerich & Payne Drlg Co

Well Name: Nichols 0994-13-18E  
Rig: 290

Location: SW/4 of NE/4

## Notes

Depth in ft (1:200)

Feb 9, 2018  
13:59

14:04

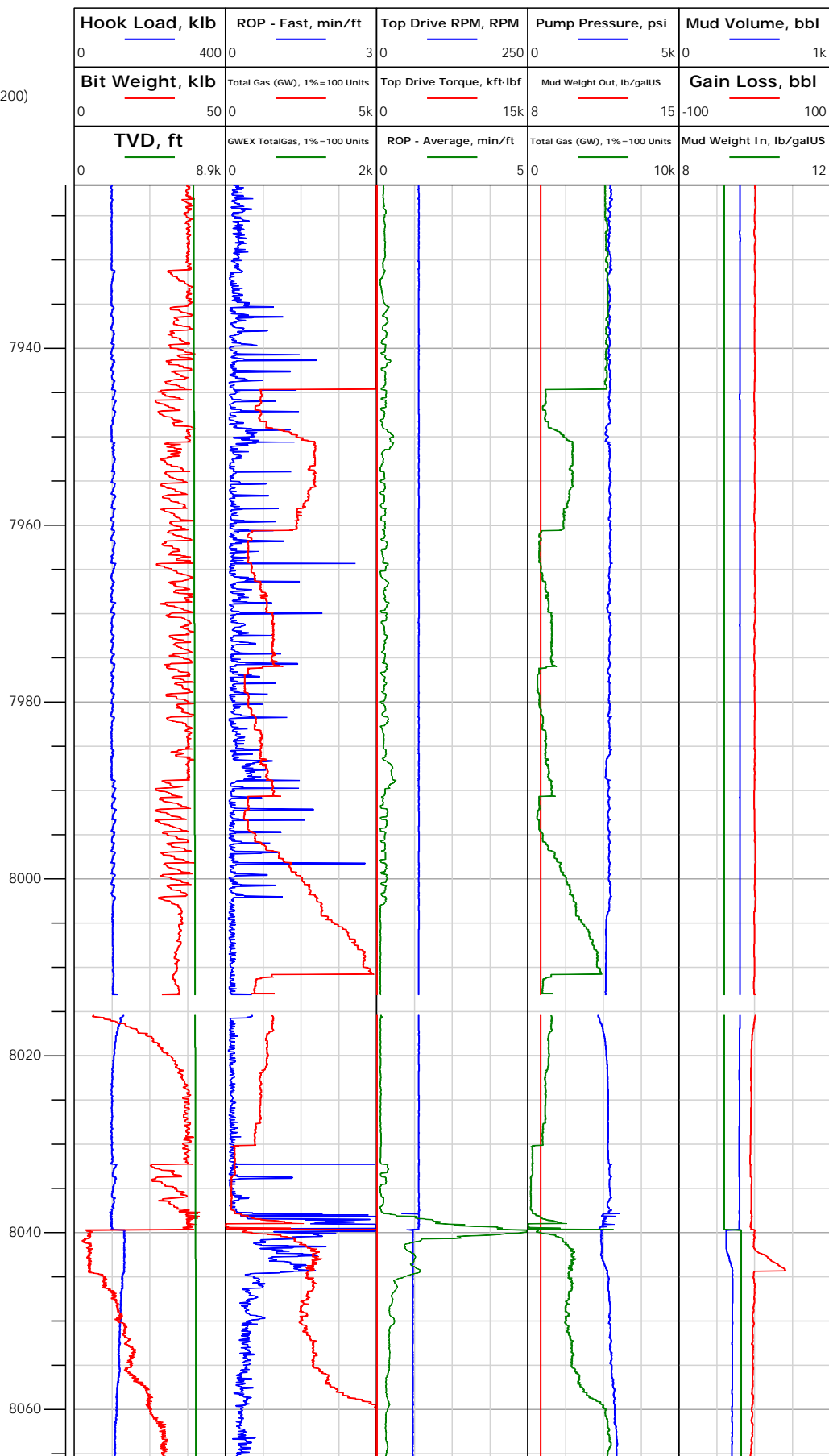
14:09

14:15

14:21

Feb 10, 2018  
01:39

01:51





# Electronic Drilling Recorder

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

**Well Name:** Nichols 0994-13-18E  
**Rig:** 290

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

## Notes

Depth in ft (1:200)

Feb 10, 2018  
01:57

02:02

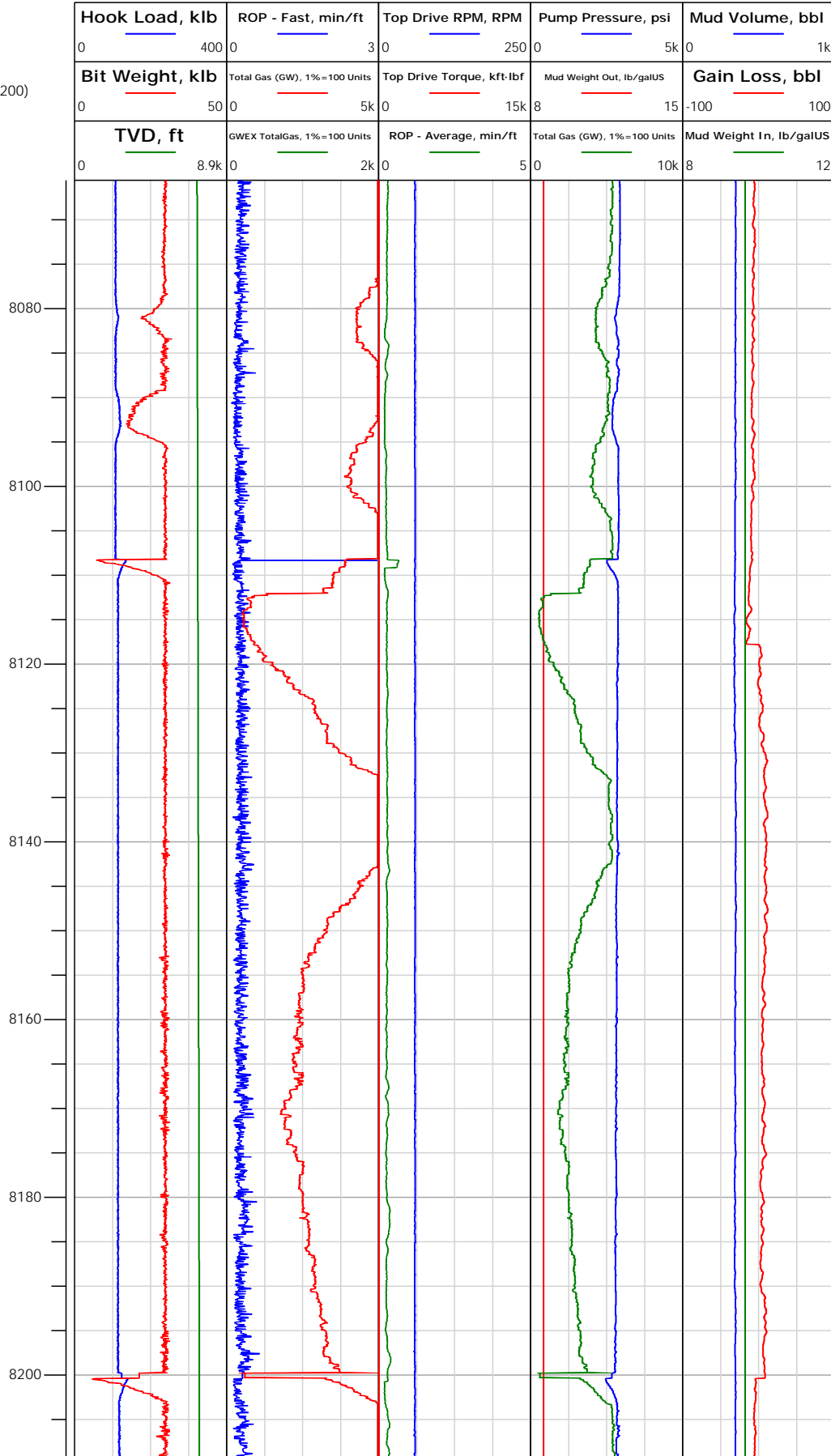
02:12

02:18

02:23

02:29

02:34



8108.27: Connection @  
8108.28 ft

8122.72: MD IN WT 9.6/49  
VIS OUT WT 9.6/48 VIS

8147.00: Deviation Survey  
8147.00 ft, Deviation 3.12  
deg, Direction 249.32 deg

8200.51: Connection @  
8200.52 ft



## Electronic Drilling Recorder

Operator: Laramie Energy  
Contractor: Helmerich & Payne Drlg Co

Well Name: Nichols 0994-13-18E  
Rig: 290

Location: SW/4 of NE/4

## Notes

