



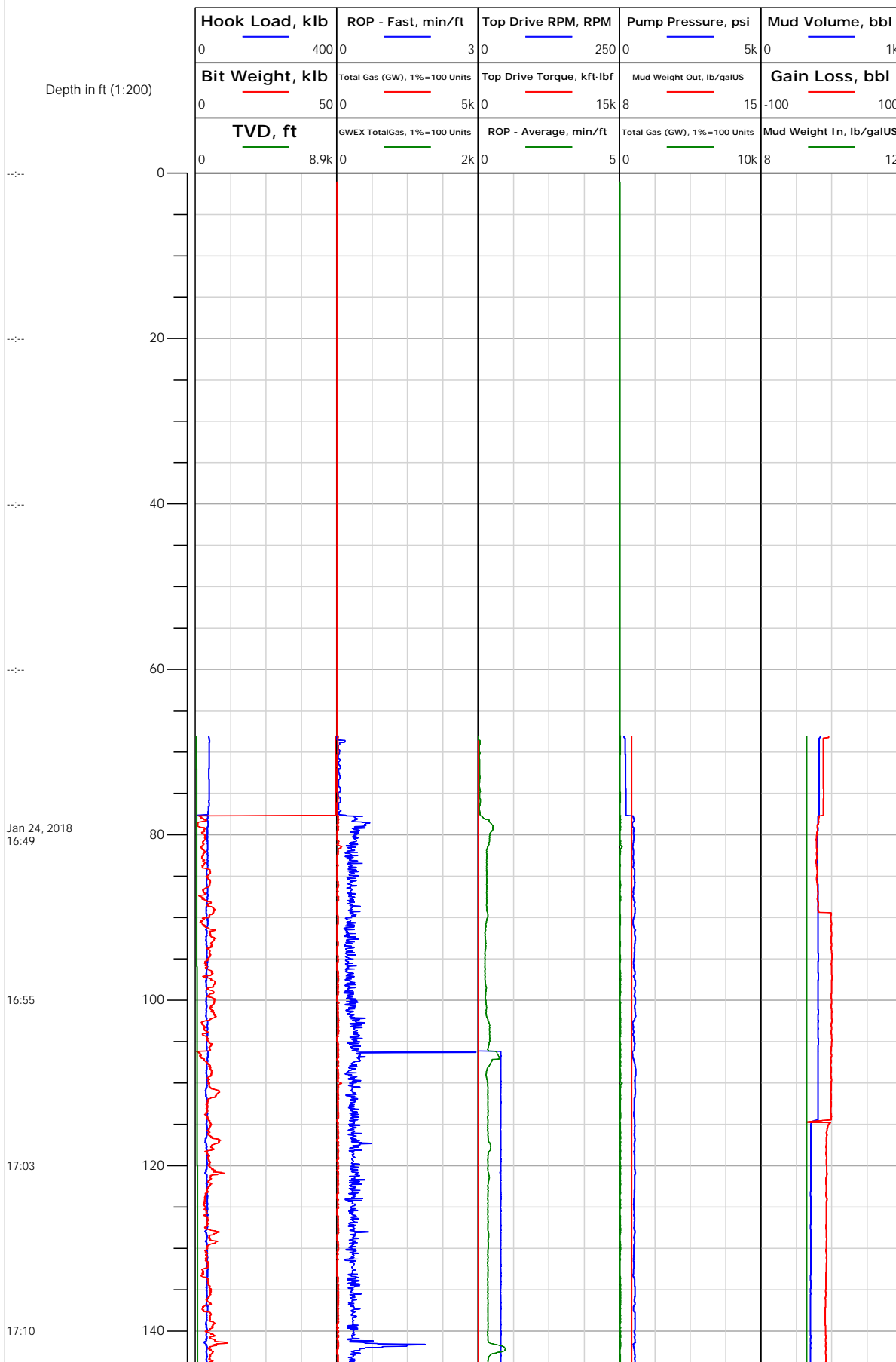
# Electronic Drilling Recorder

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

**Well Name:** Nichols 0994-13-21W  
**Rig:** 290

**Location:** SW/4 OF NE/4

## Notes





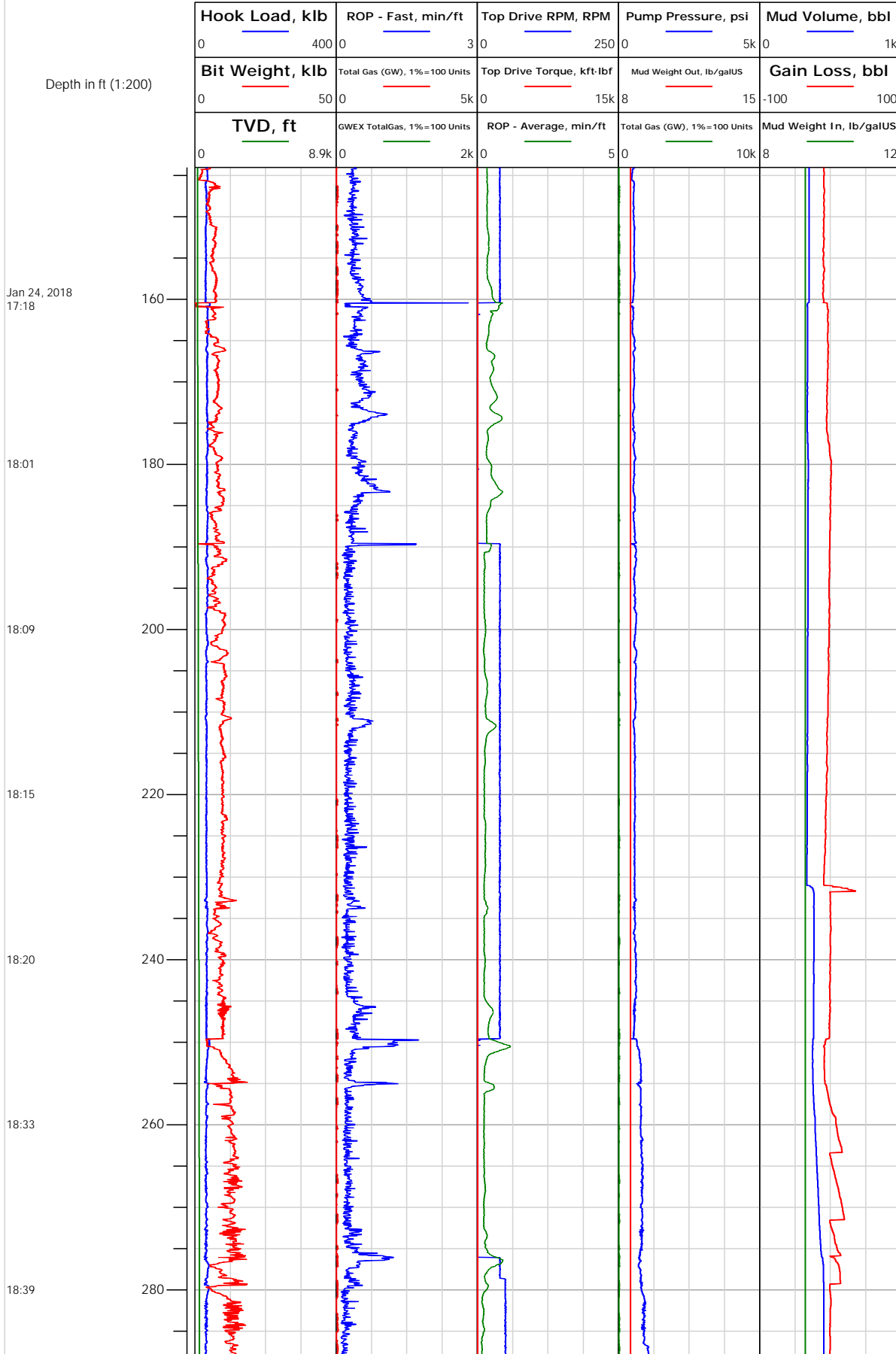
# Electronic Drilling Recorder

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

**Well Name:** Nichols 0994-13-21W  
**Rig:** 290

**Location:** SW/4 Of NE/4

## Notes



201.00: Deviation Survey  
201.00 ft, Deviation 3.2  
deg, Direction 300.3 deg





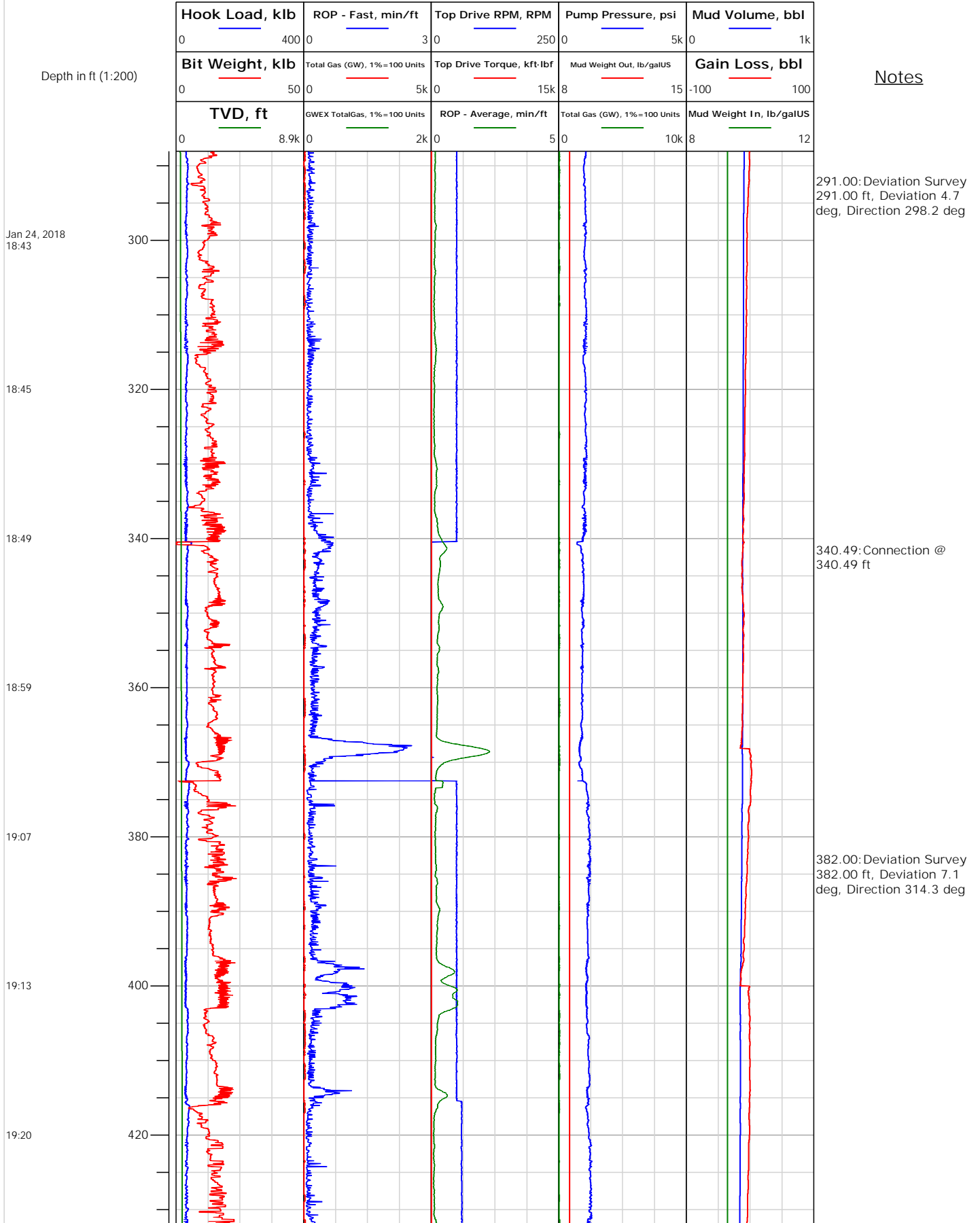
# Electronic Drilling Recorder

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

**Well Name:** Nichols 0994-13-21W  
**Rig:** 290

**Location:** SW/4 Of NE/4

## Notes





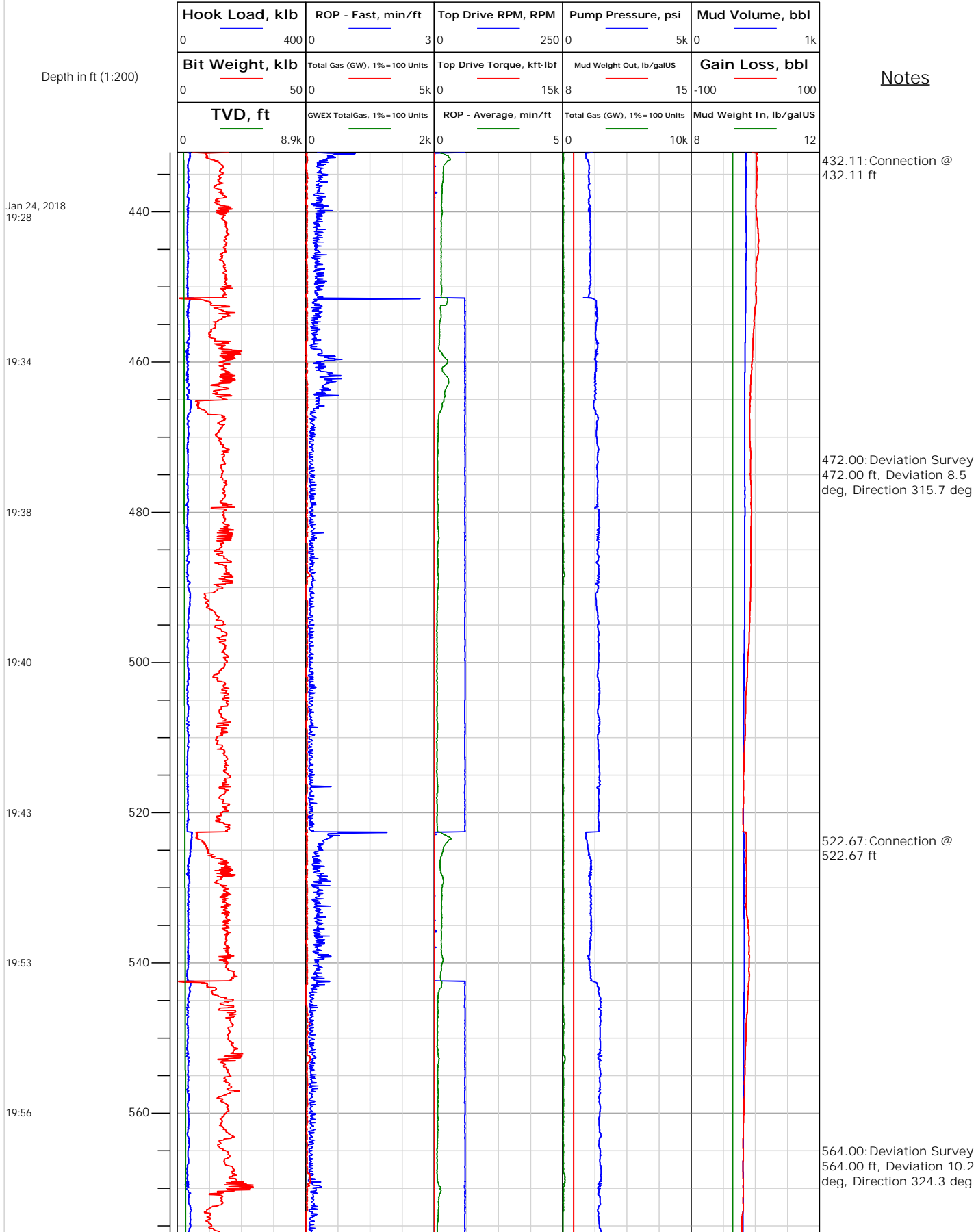
# Electronic Drilling Recorder

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

**Well Name:** Nichols 0994-13-21W  
**Rig:** 290

**Location:** SW/4 OF NE/4

## Notes





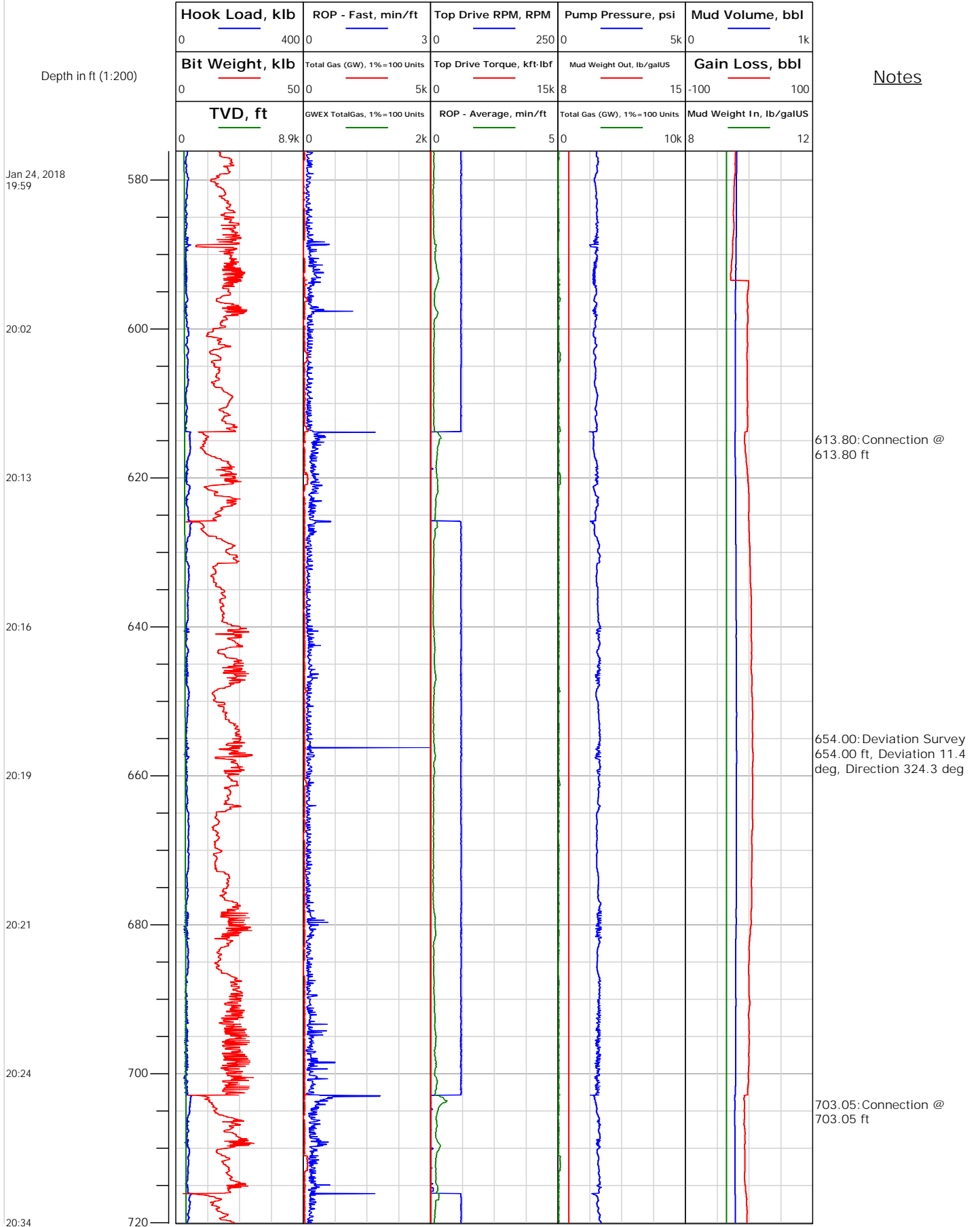
# Electronic Drilling Recorder

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

**Well Name:** Nichols 0994-13-21W  
**Rig:** 290

**Location:** SW/4 Of NE/4

## Notes





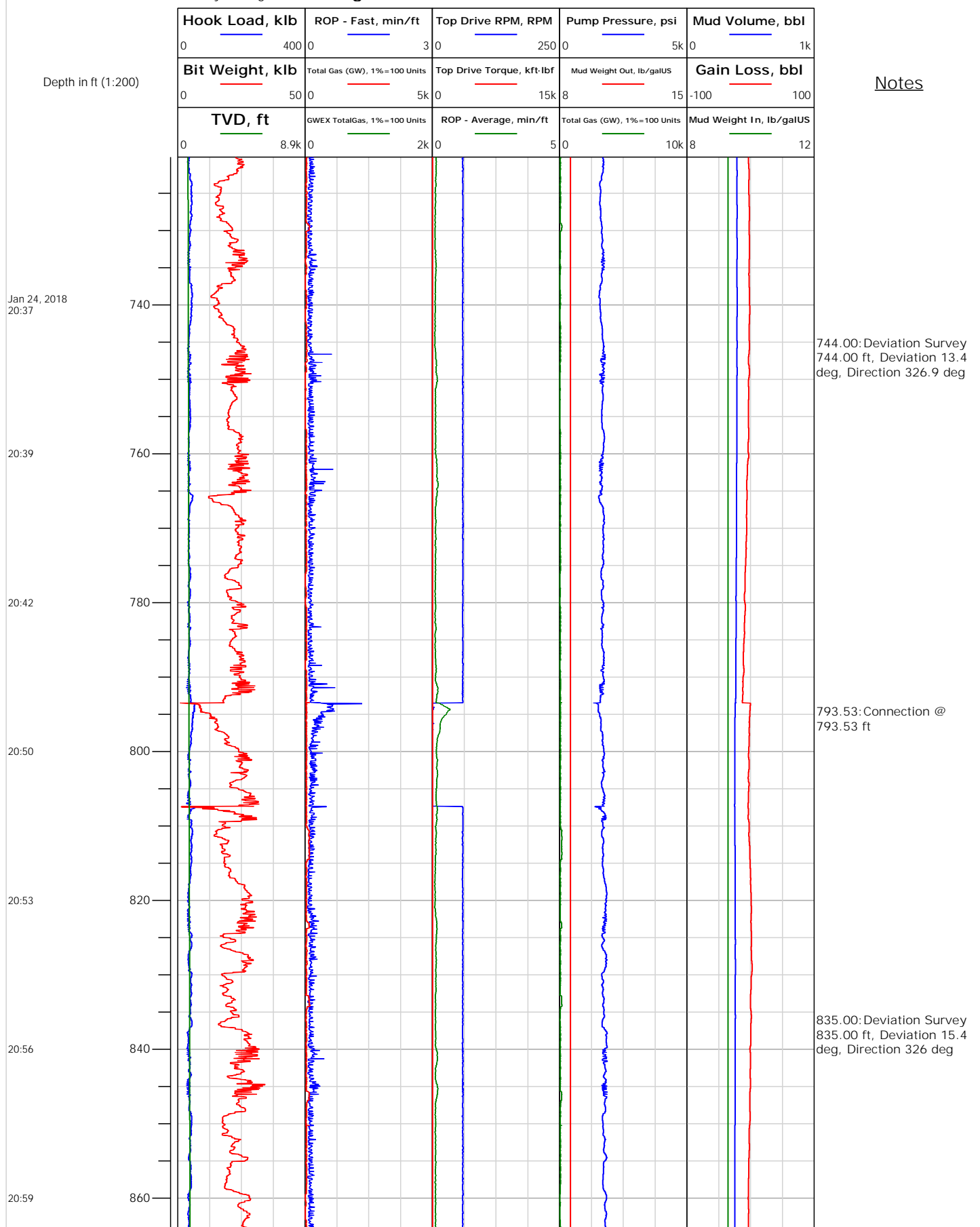
## Electronic Drilling Recorder

Operator: Laramie Energy  
Contractor: Helmerich & Payne Drlg Co

Well Name: Nichols 0994-13-21W  
Rig: 290

Location: SW/4 OF NE/4

## Notes





# Electronic Drilling Recorder

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

**Well Name:** Nichols 0994-13-21W  
**Rig:** 290

**Location:** SW/4 Of NE/4

## Notes

Depth in ft (1:200)

Jan 24, 2018  
21:01

21:07

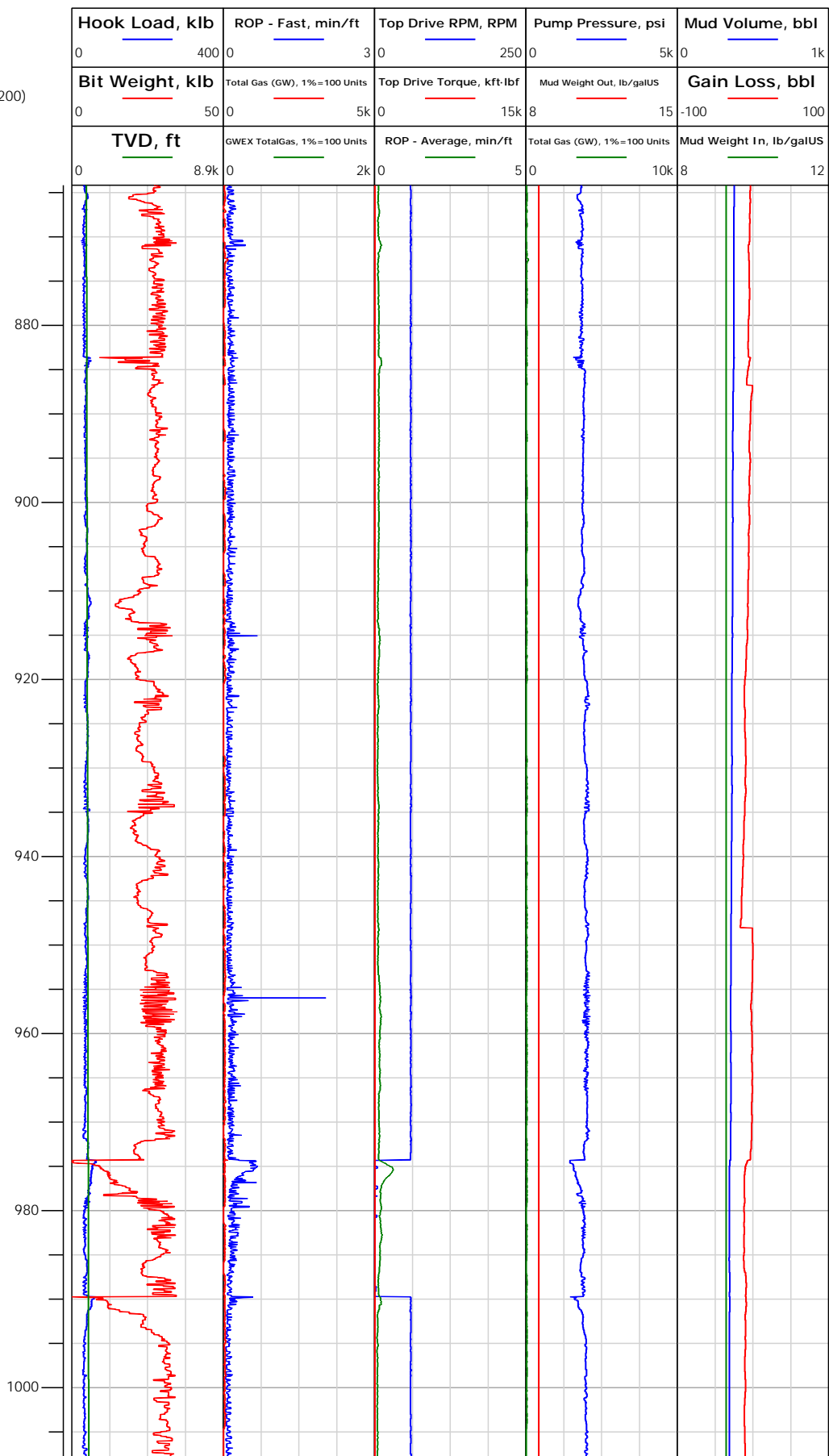
21:10

21:12

21:15

21:22

21:25





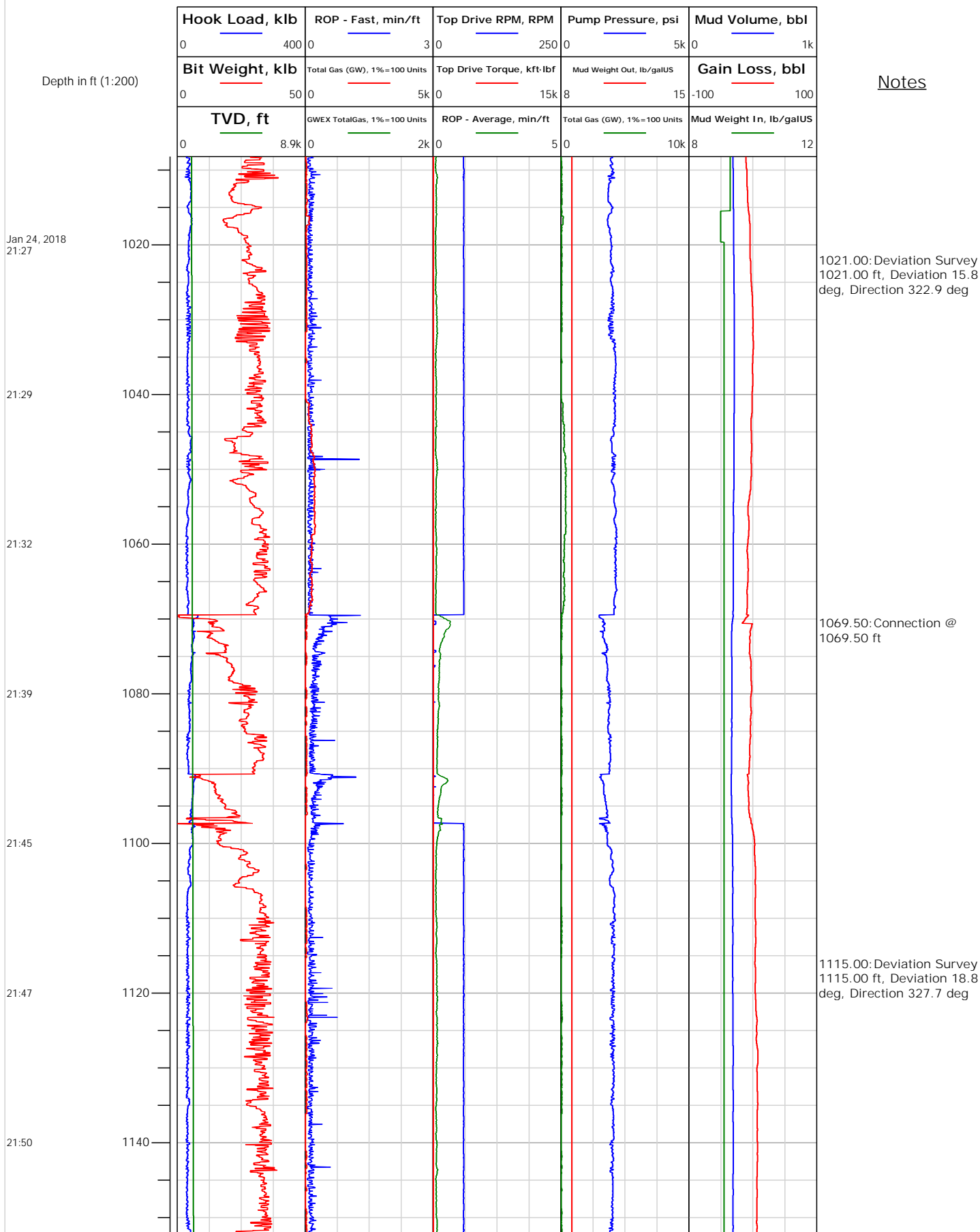
# Electronic Drilling Recorder

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

**Well Name:** Nichols 0994-13-21W  
**Rig:** 290

**Location:** SW/4 Of NE/4

## Notes





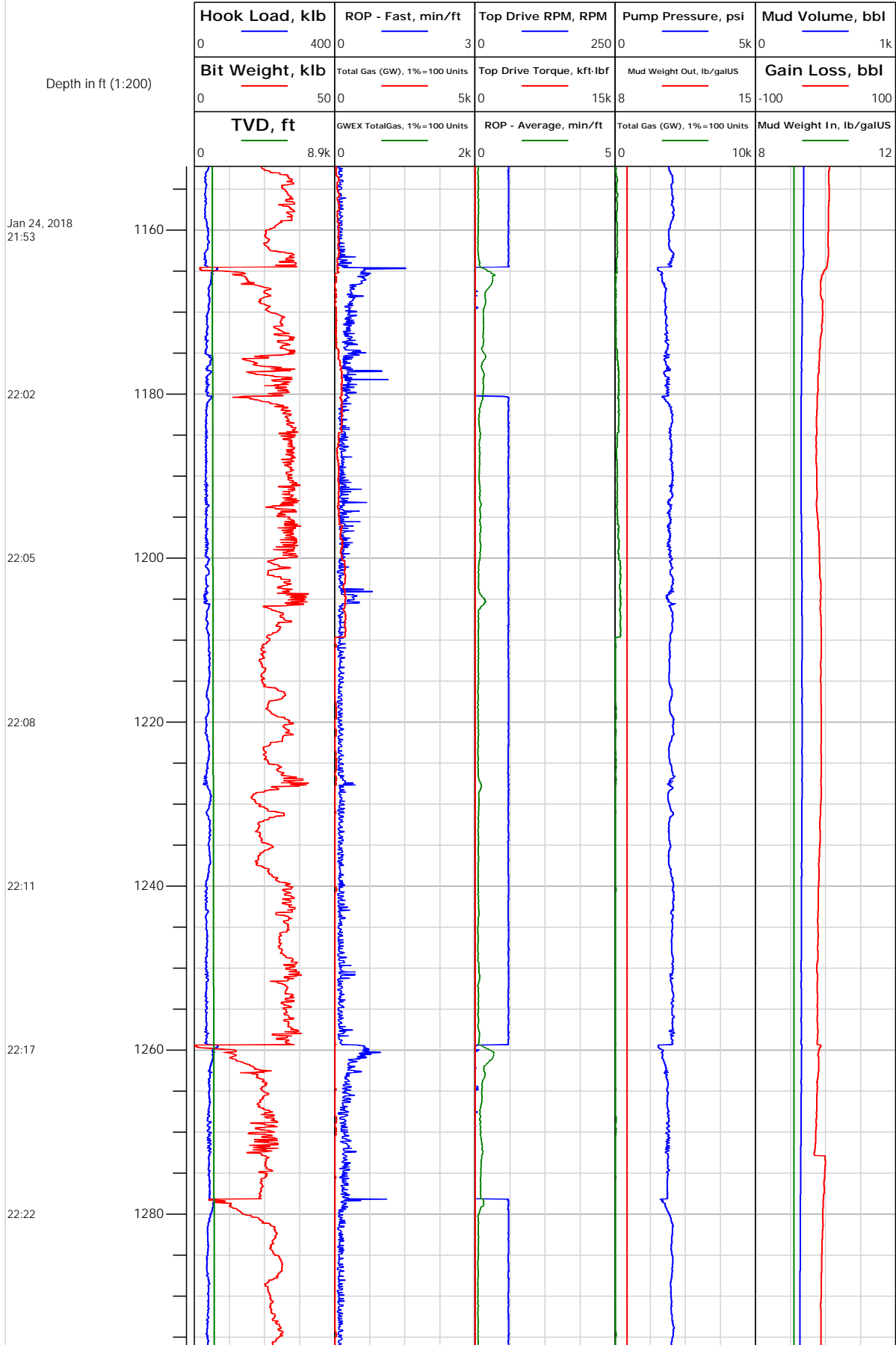
# Electronic Drilling Recorder

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

**Well Name:** Nichols 0994-13-21W  
**Rig:** 290

**Location:** SW/4 Of NE/4

Notes



1210.00: Deviation Survey  
1210.00 ft, Deviation 20.4 deg, Direction 326.7 deg



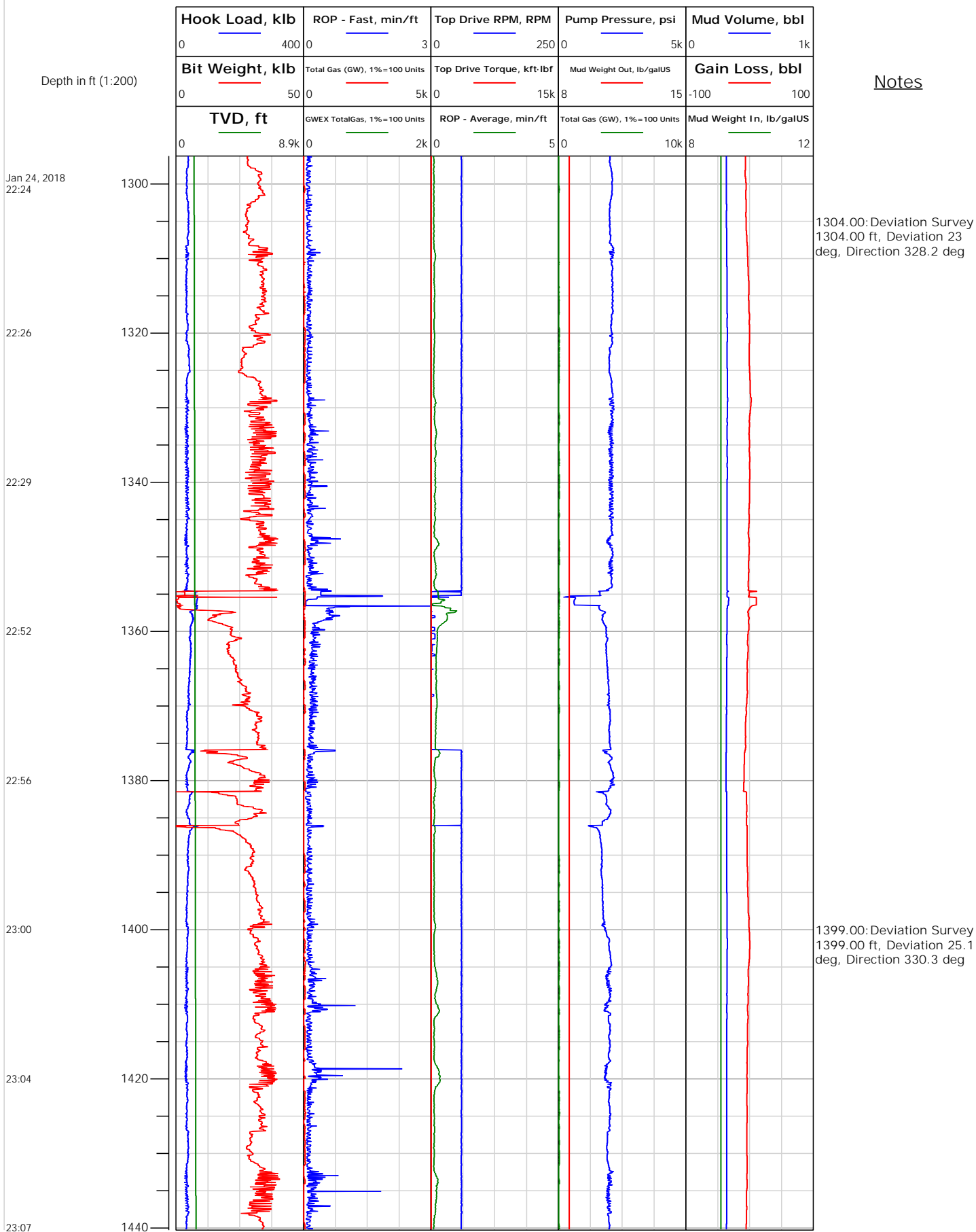
# Electronic Drilling Recorder

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

**Well Name:** Nichols 0994-13-21W  
**Rig:** 290

**Location:** SW/4 Of NE/4

## Notes







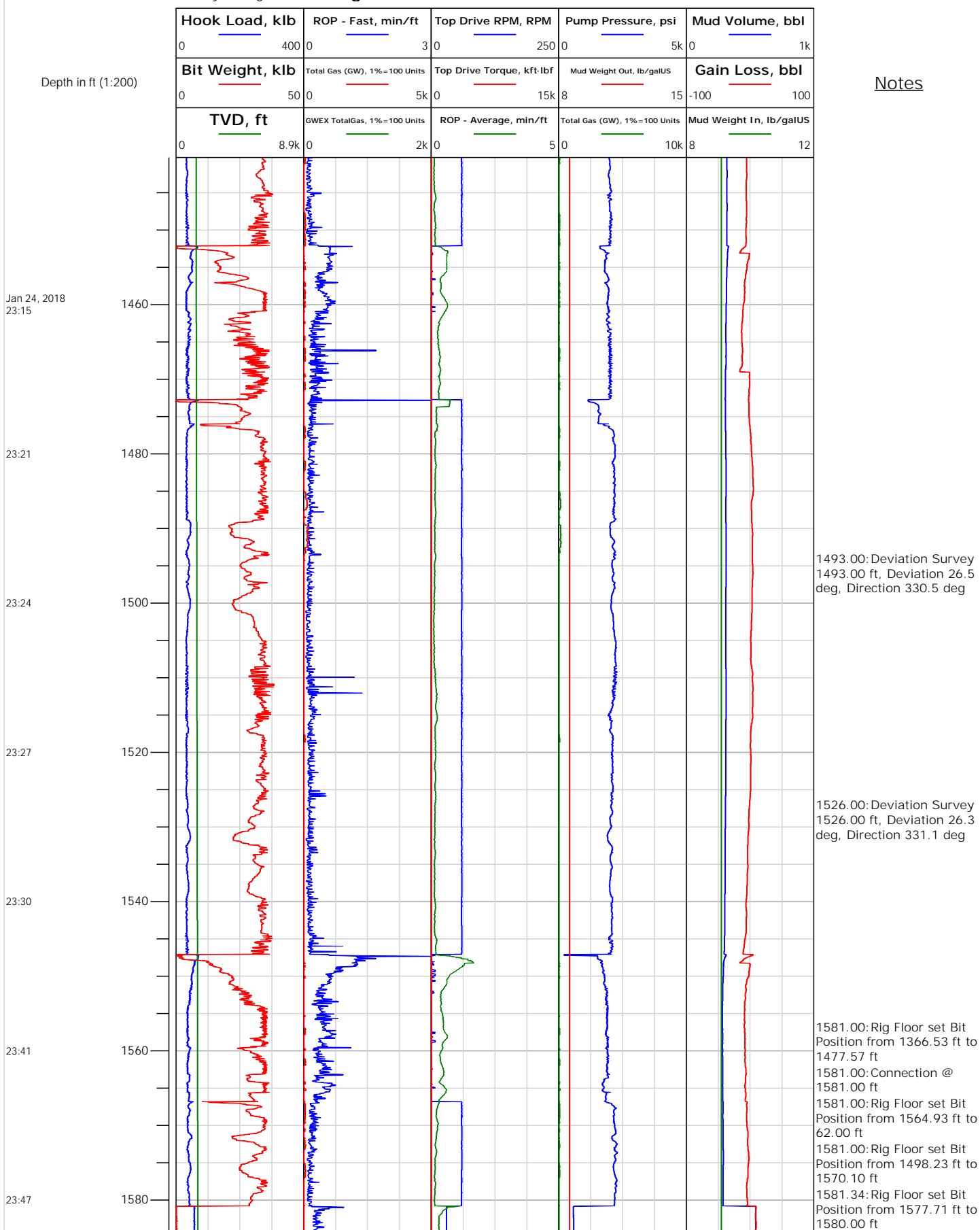
# Electronic Drilling Recorder

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

**Well Name:** Nichols 0994-13-21W  
**Rig:** 290

**Location:** SW/4 Of NE/4

## Notes





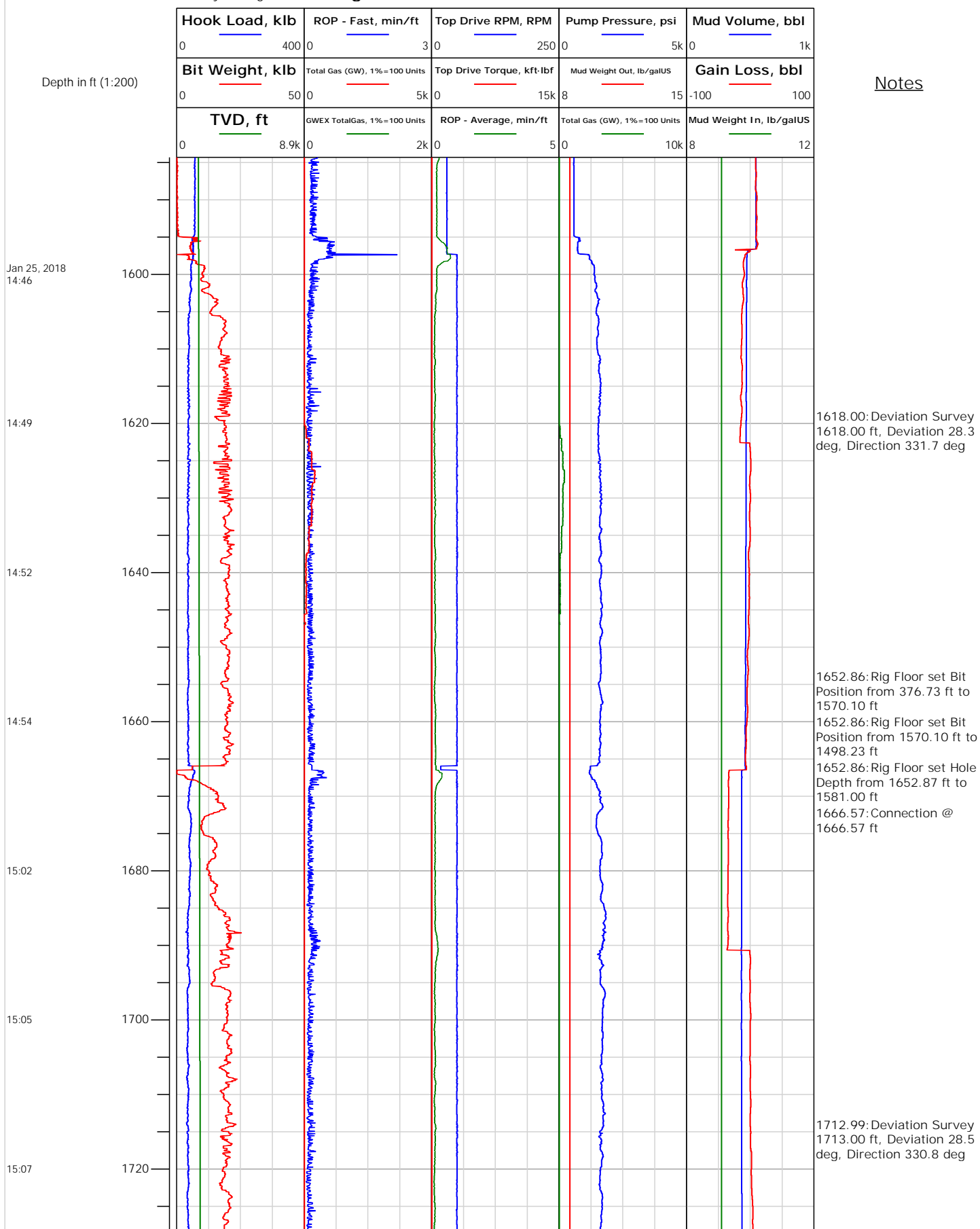
# Electronic Drilling Recorder

Operator: Laramie Energy  
Contractor: Helmerich & Payne Drlg Co

Well Name: Nichols 0994-13-21W  
Rig: 290

Location: SW/4 OF NE/4

## Notes





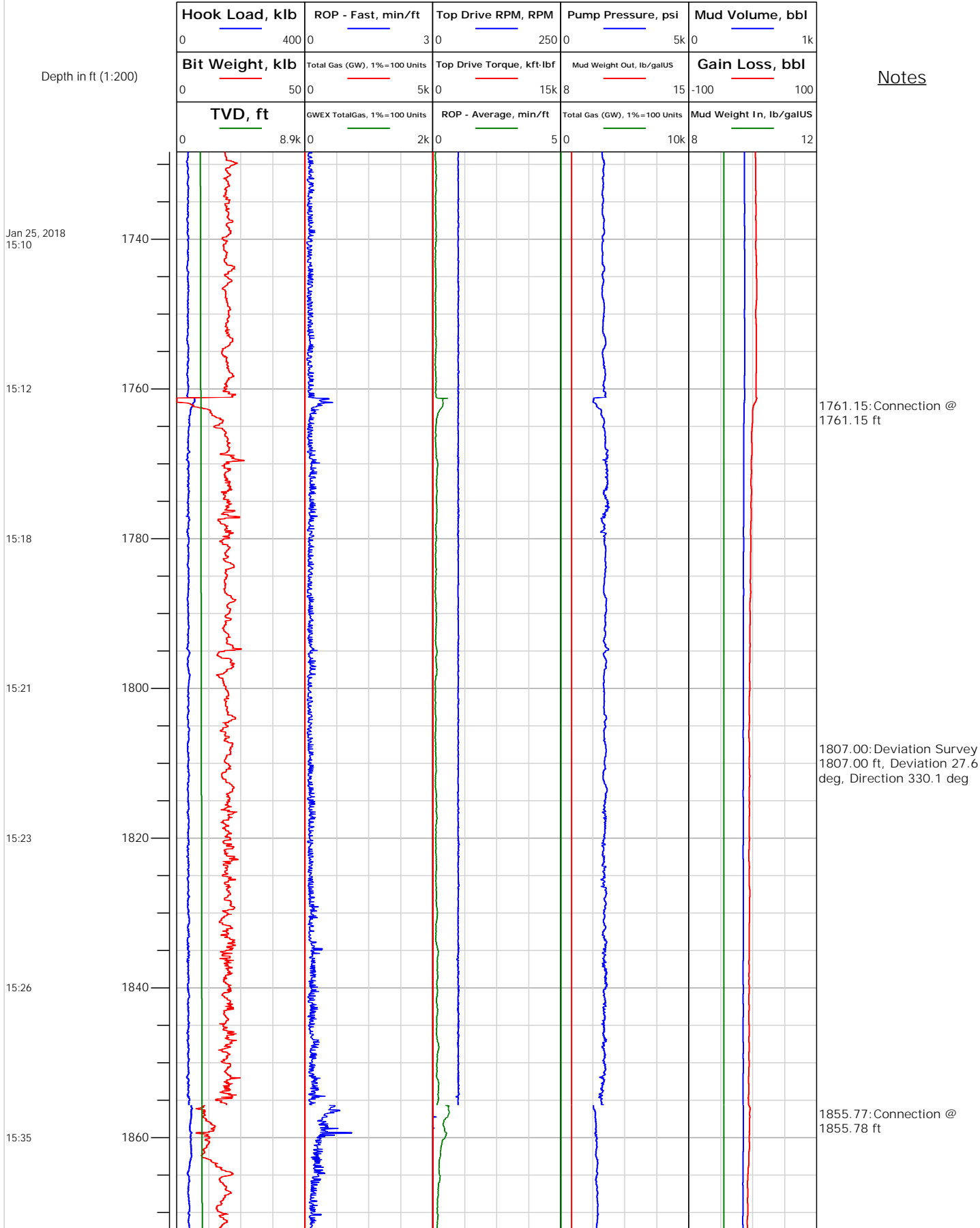
# Electronic Drilling Recorder

Operator: Laramie Energy  
Contractor: Helmerich & Payne Drlg Co

Well Name: Nichols 0994-13-21W  
Rig: 290

Location: SW/4 Of NE/4

## Notes





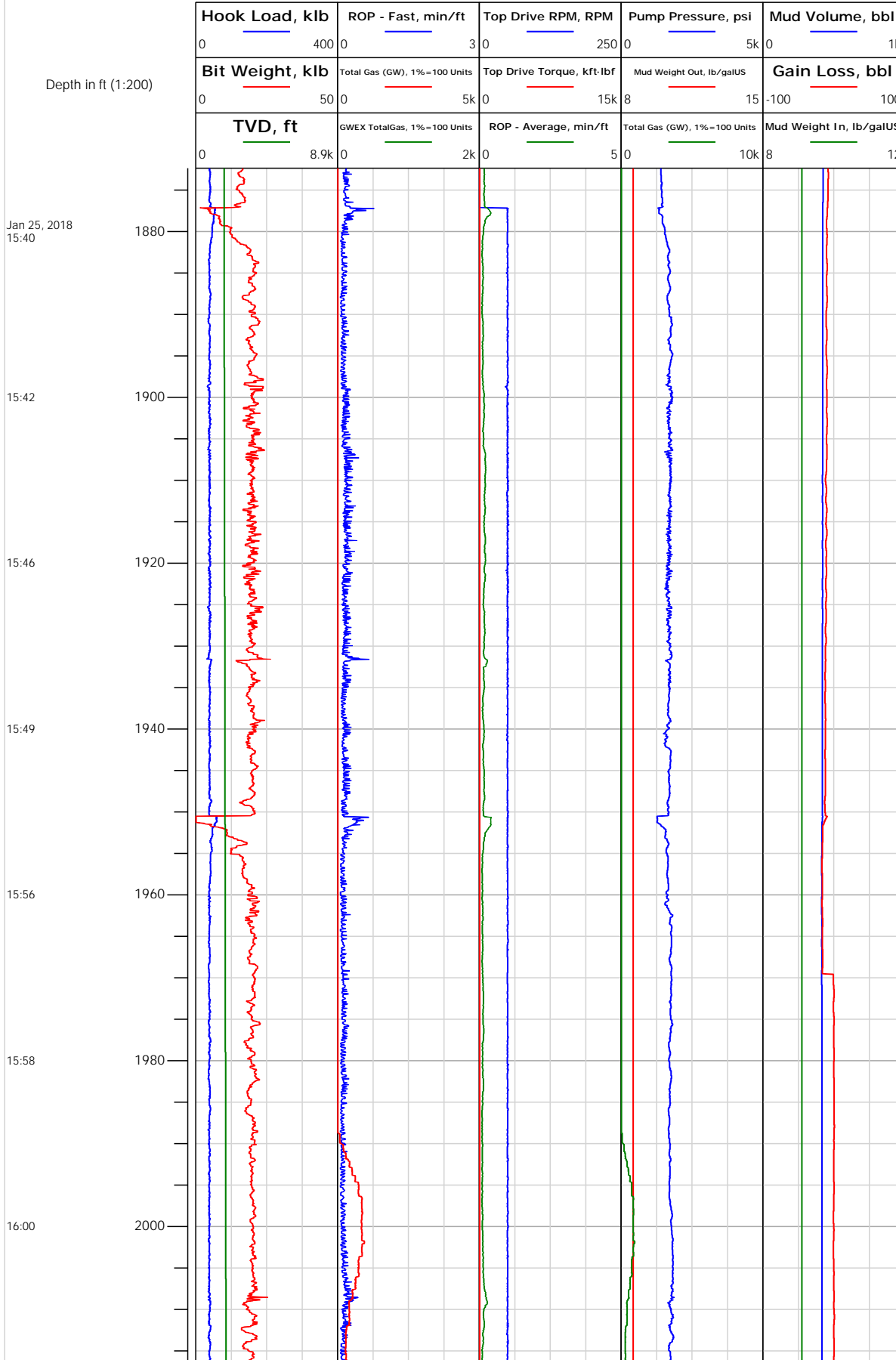
# Electronic Drilling Recorder

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

**Well Name:** Nichols 0994-13-21W  
**Rig:** 290

**Location:** SW/4 OF NE/4

## Notes



1902.00: Deviation Survey  
1902.00 ft, Deviation 29.8 deg, Direction 327.6 deg

1950.56: Connection @  
1950.57 ft

1996.00: Deviation Survey  
1996.00 ft, Deviation 28.9 deg, Direction 327 deg

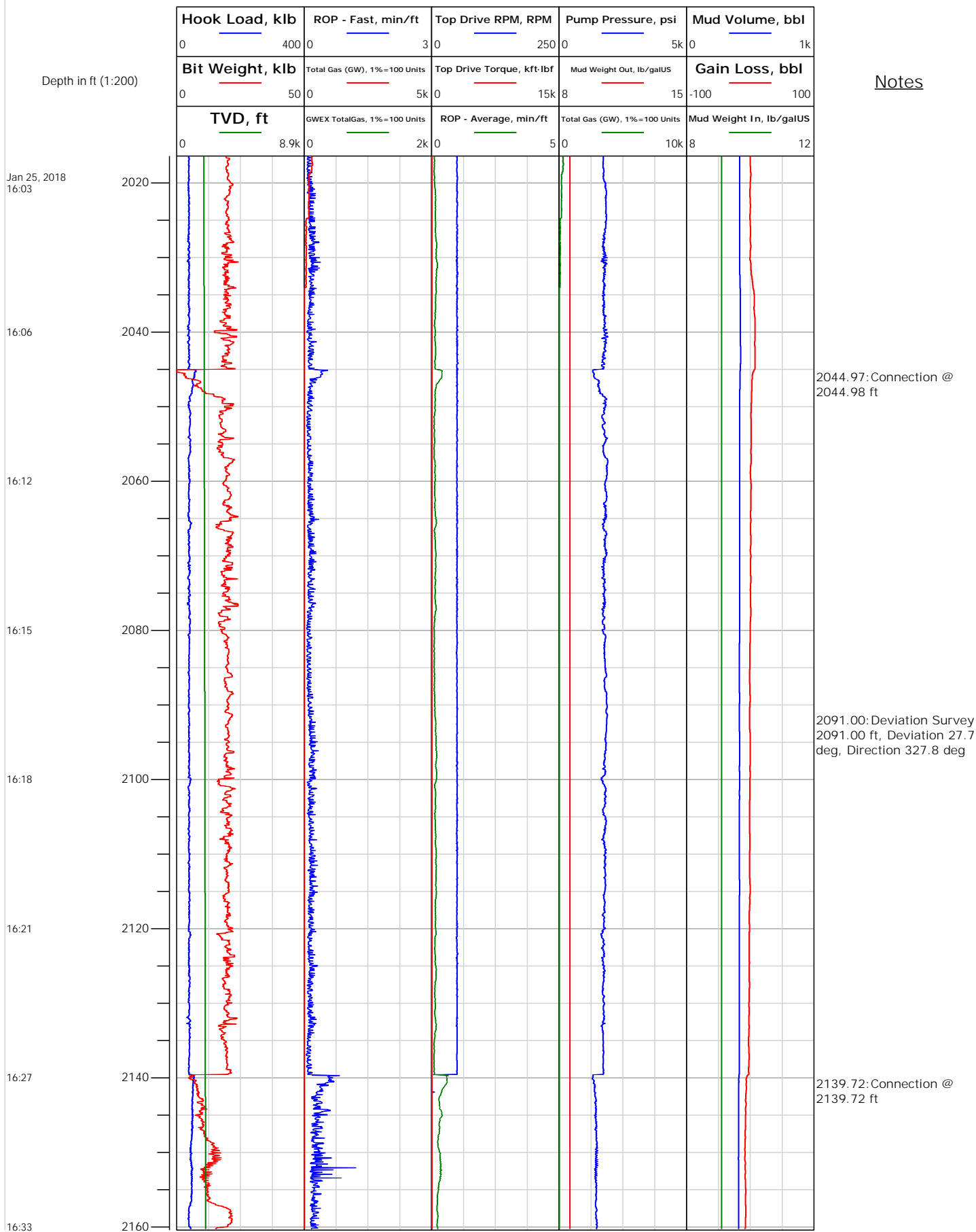


# Electronic Drilling Recorder

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

**Well Name:** Nichols 0994-13-21W  
**Rig:** 290

**Location:** SW/4 Of NE/4





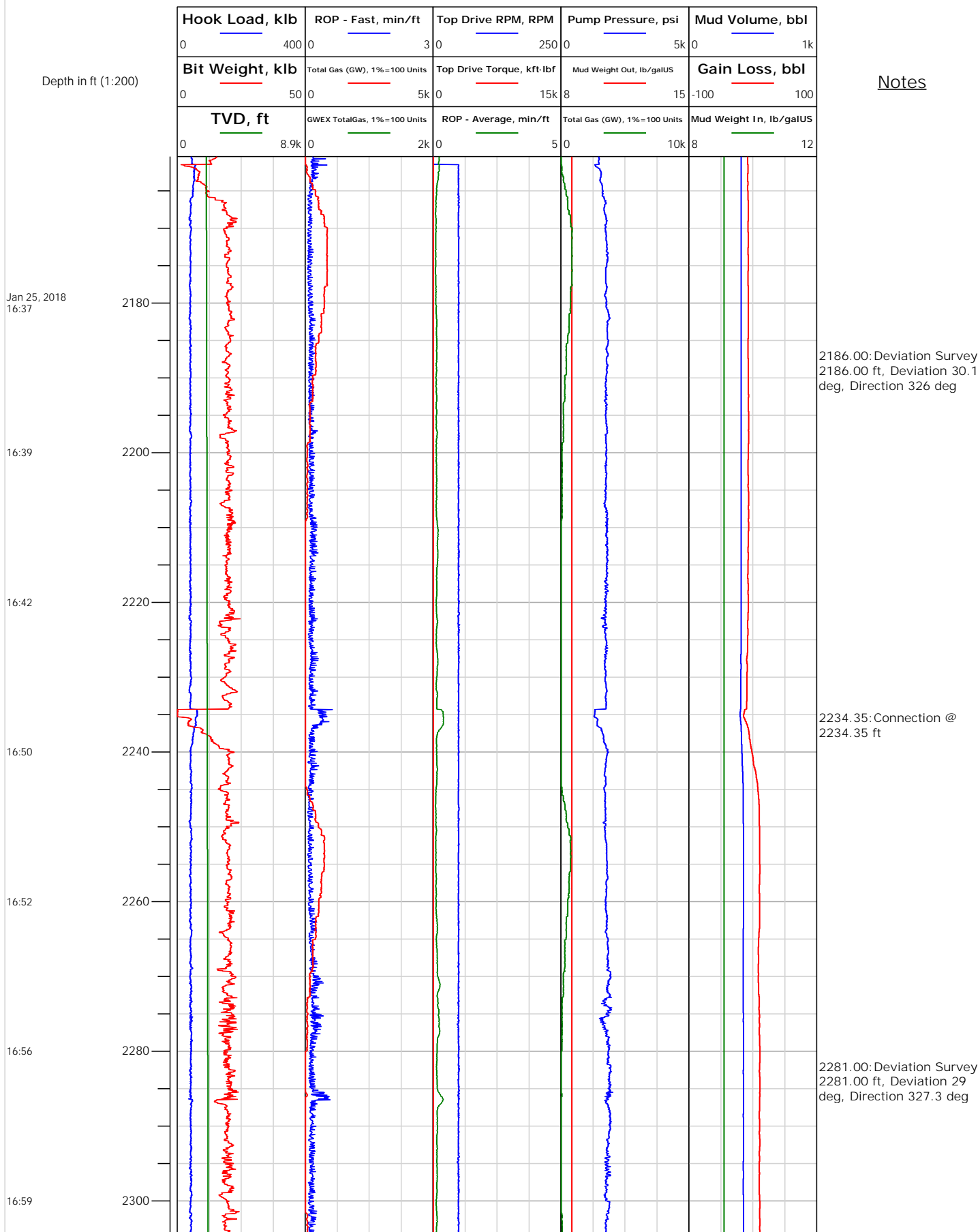
# Electronic Drilling Recorder

Operator: Laramie Energy  
Contractor: Helmerich & Payne Drlg Co

Well Name: Nichols 0994-13-21W  
Rig: 290

Location: SW/4 Of NE/4

## Notes





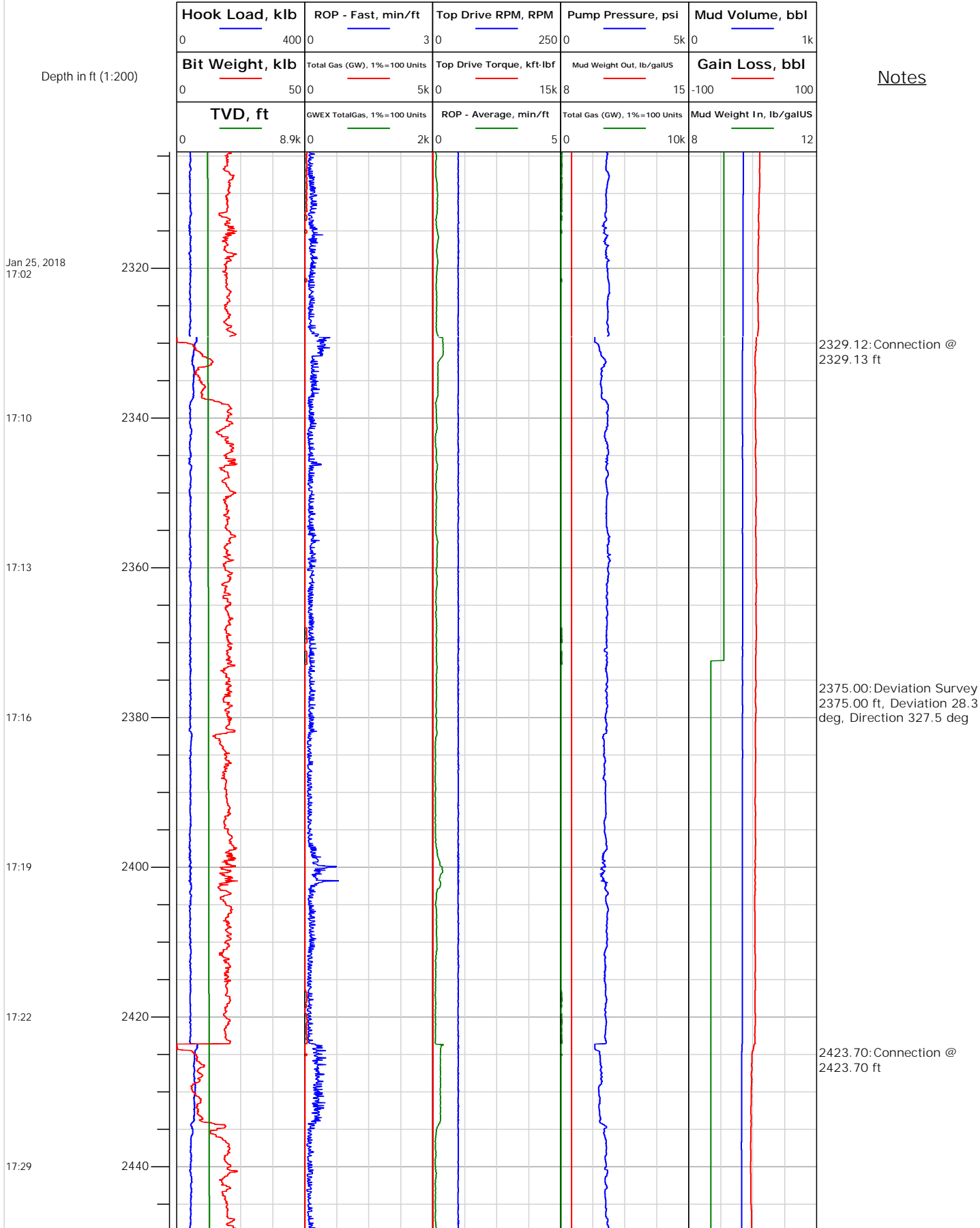
# Electronic Drilling Recorder

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

**Well Name:** Nichols 0994-13-21W  
**Rig:** 290

**Location:** SW/4 Of NE/4

## Notes





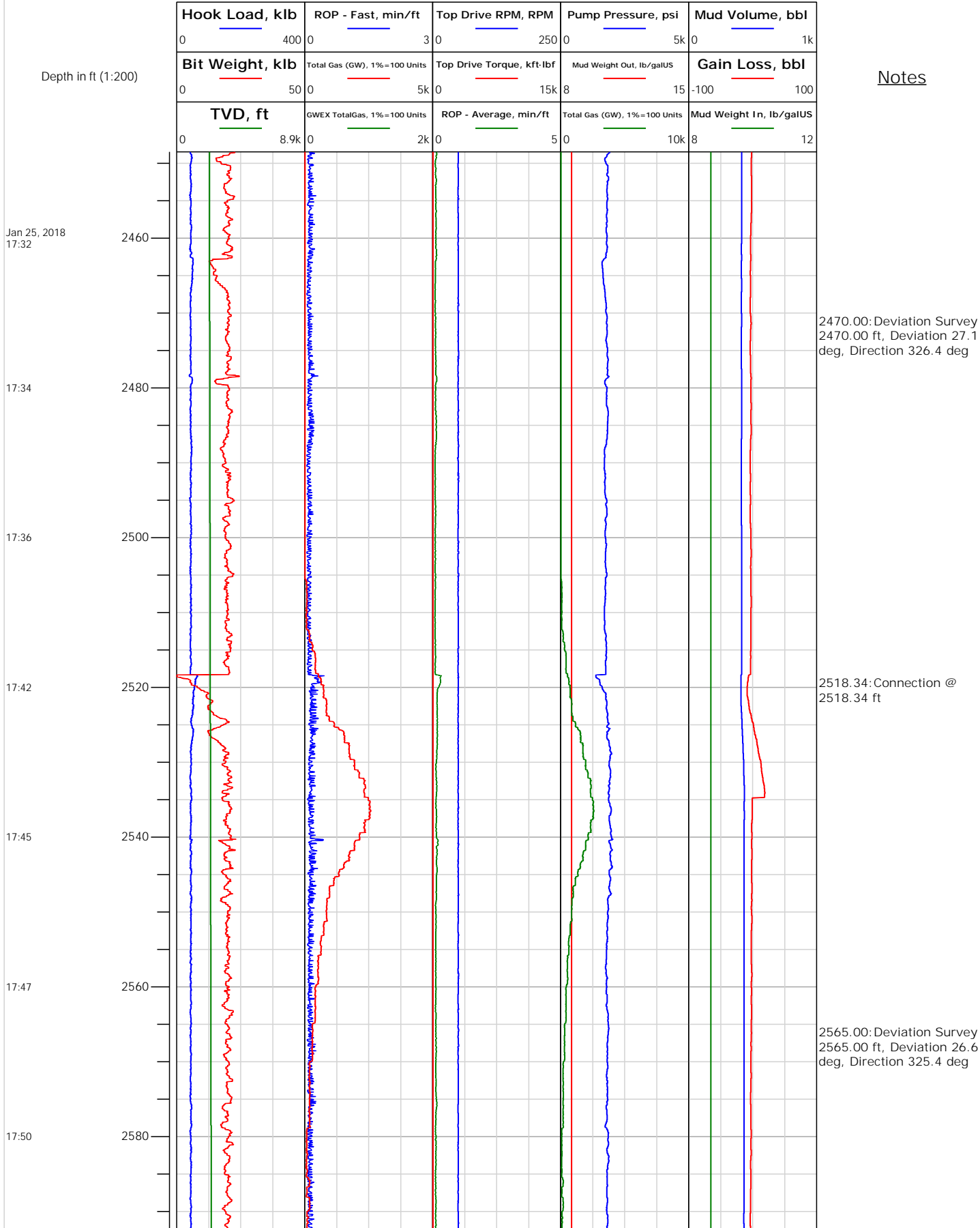
# Electronic Drilling Recorder

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

**Well Name:** Nichols 0994-13-21W  
**Rig:** 290

**Location:** SW/4 OF NE/4

## Notes







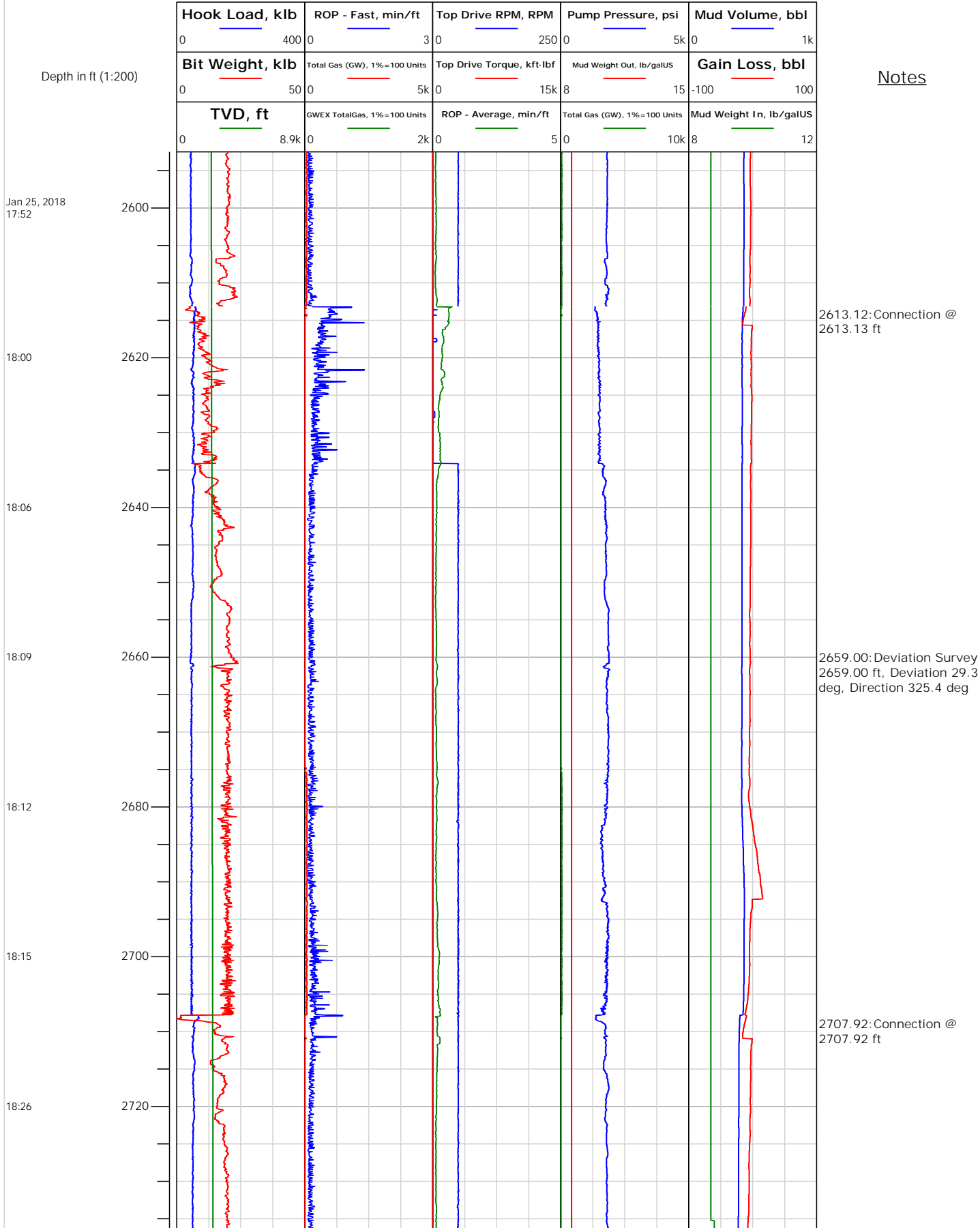
# Electronic Drilling Recorder

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

**Well Name:** Nichols 0994-13-21W  
**Rig:** 290

**Location:** SW/4 Of NE/4

## Notes



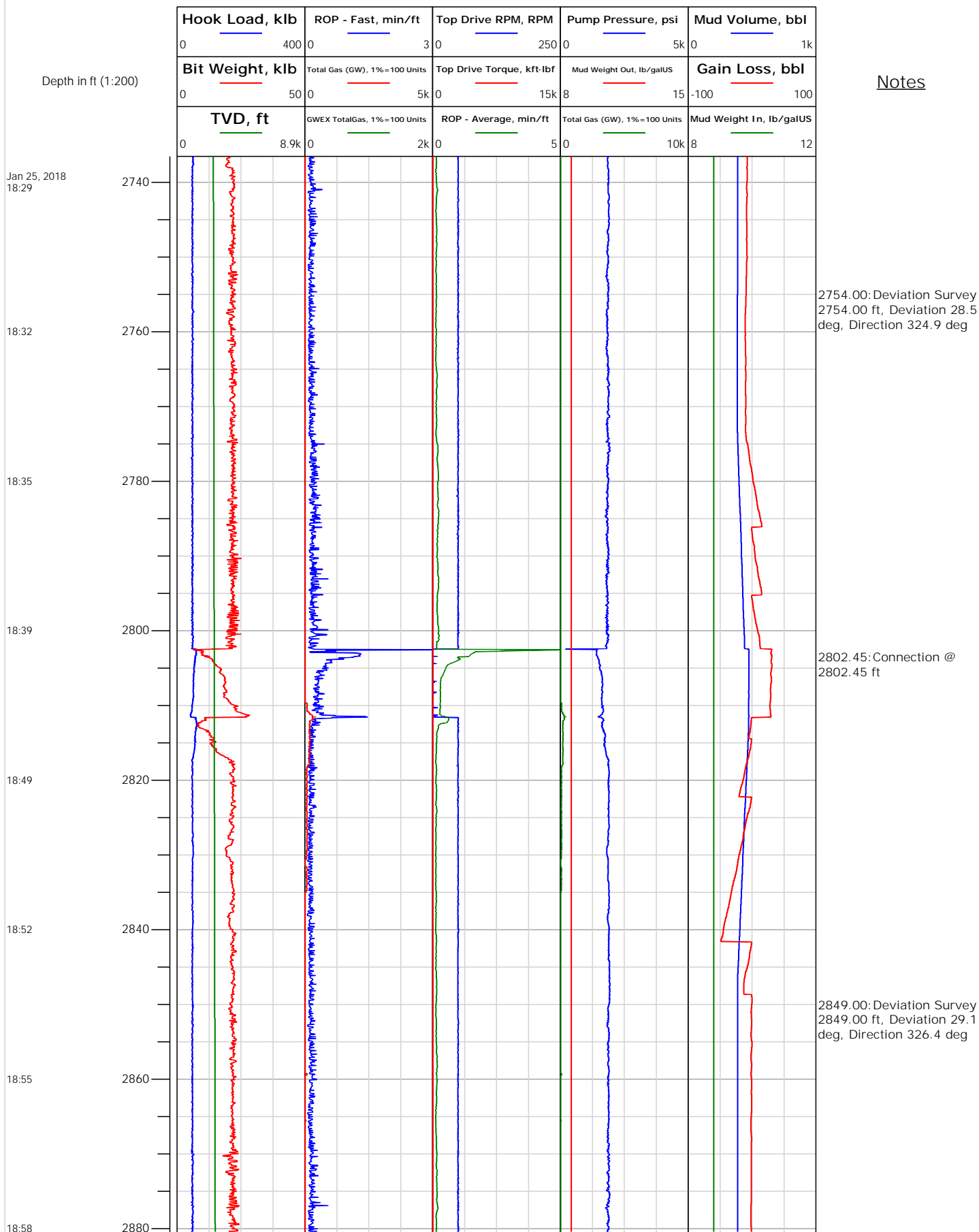


# Electronic Drilling Recorder

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

**Well Name:** Nichols 0994-13-21W  
**Rig:** 290

**Location:** SW/4 Of NE/4





# Electronic Drilling Recorder

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

**Well Name:** Nichols 0994-13-21W  
**Rig:** 290

**Location:** SW/4 Of NE/4

## Notes

Depth in ft (1:200)

Jan 25, 2018  
19:04

19:07

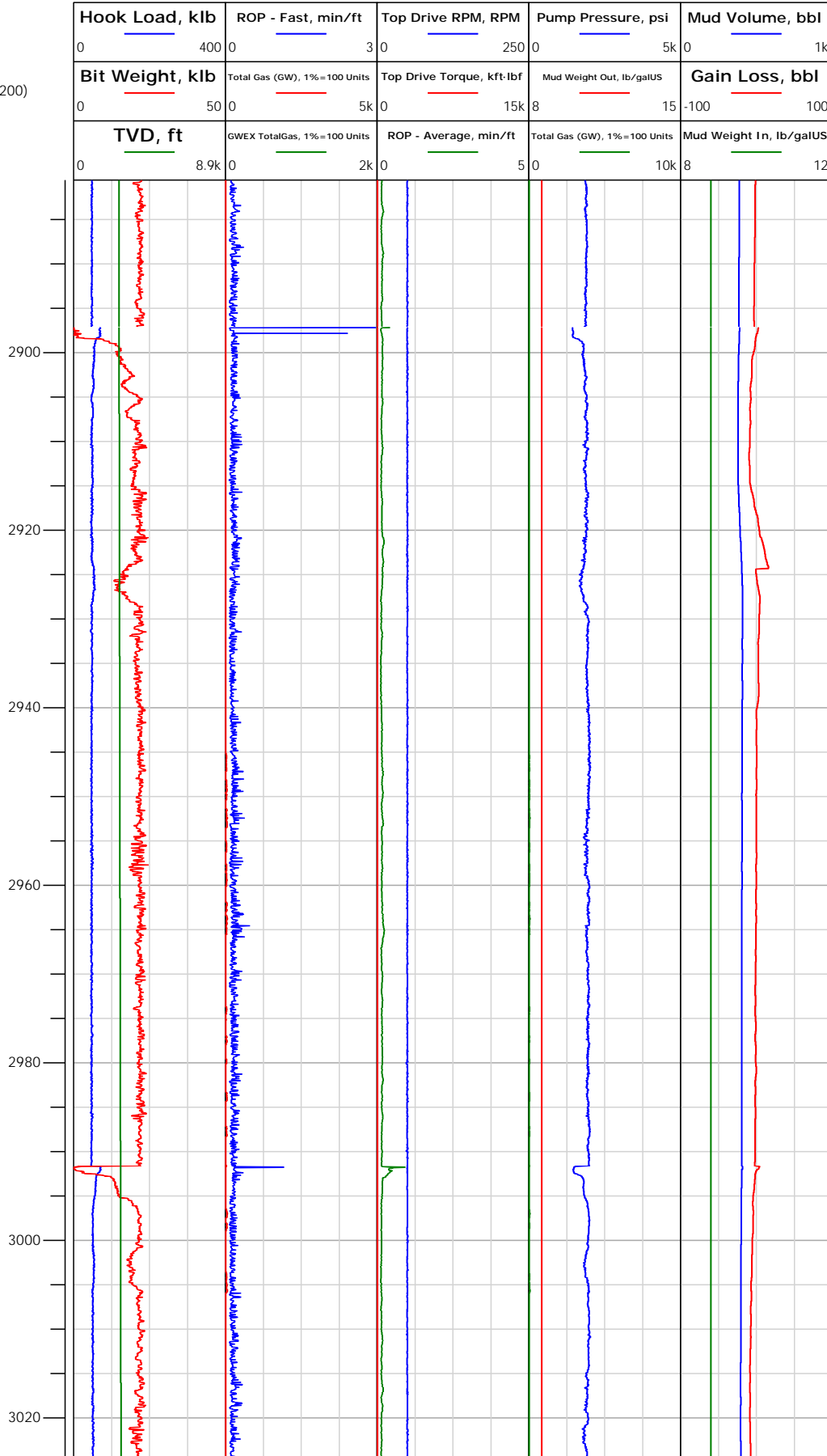
19:10

19:14

19:17

19:23

19:26





# Electronic Drilling Recorder

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

**Well Name:** Nichols 0994-13-21W  
**Rig:** 290

**Location:** SW/4 Of NE/4

## Notes

Depth in ft (1:200)

Jan 25, 2018  
19:29

19:32

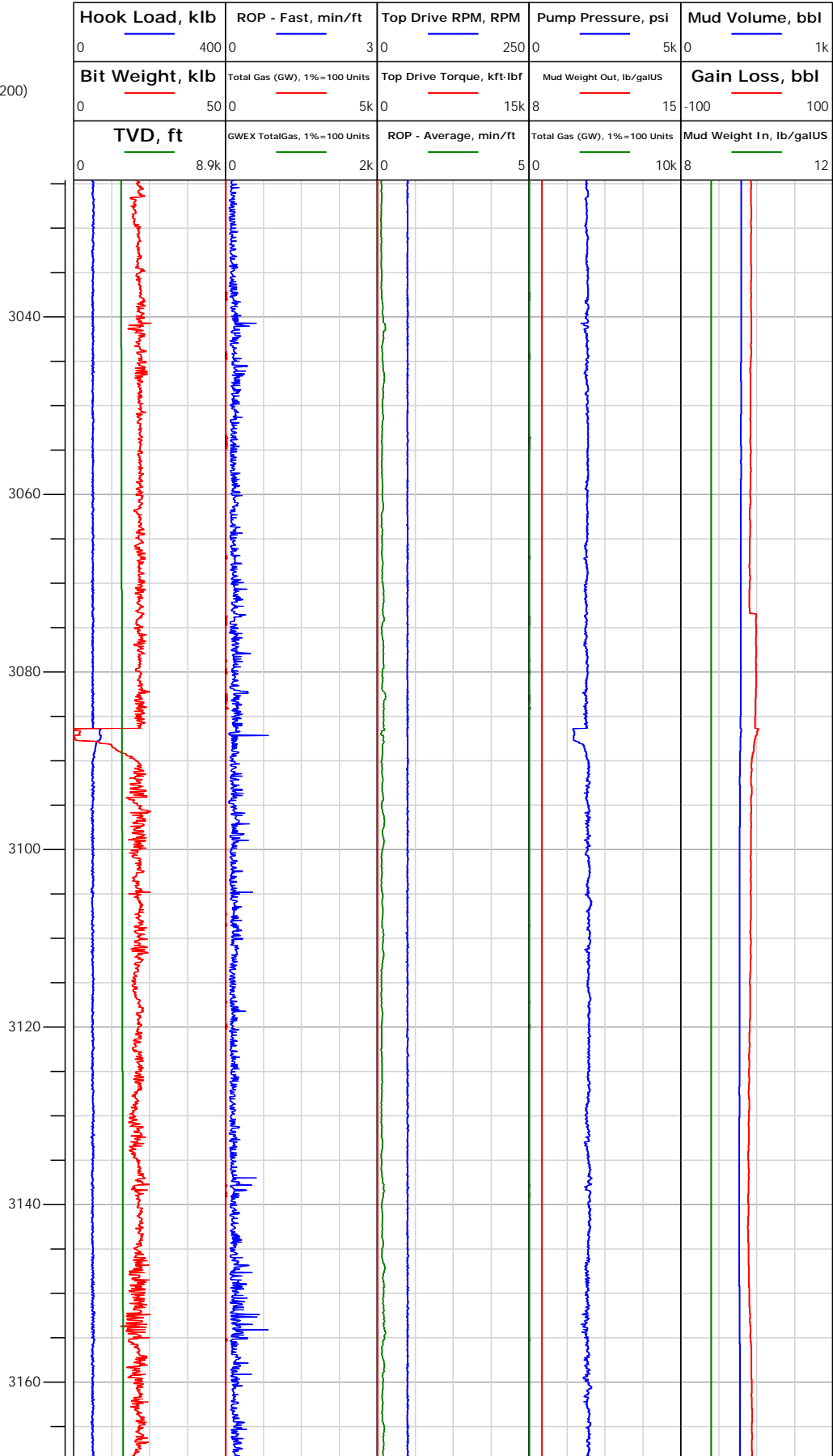
19:36

19:43

19:46

19:49

19:52



3038.00: Deviation Survey  
3038.00 ft, Deviation 28.4 deg, Direction 324.9 deg

3086.40: Connection @  
3086.40 ft

3132.00: Deviation Survey  
3132.00 ft, Deviation 27.5 deg, Direction 325.4 deg



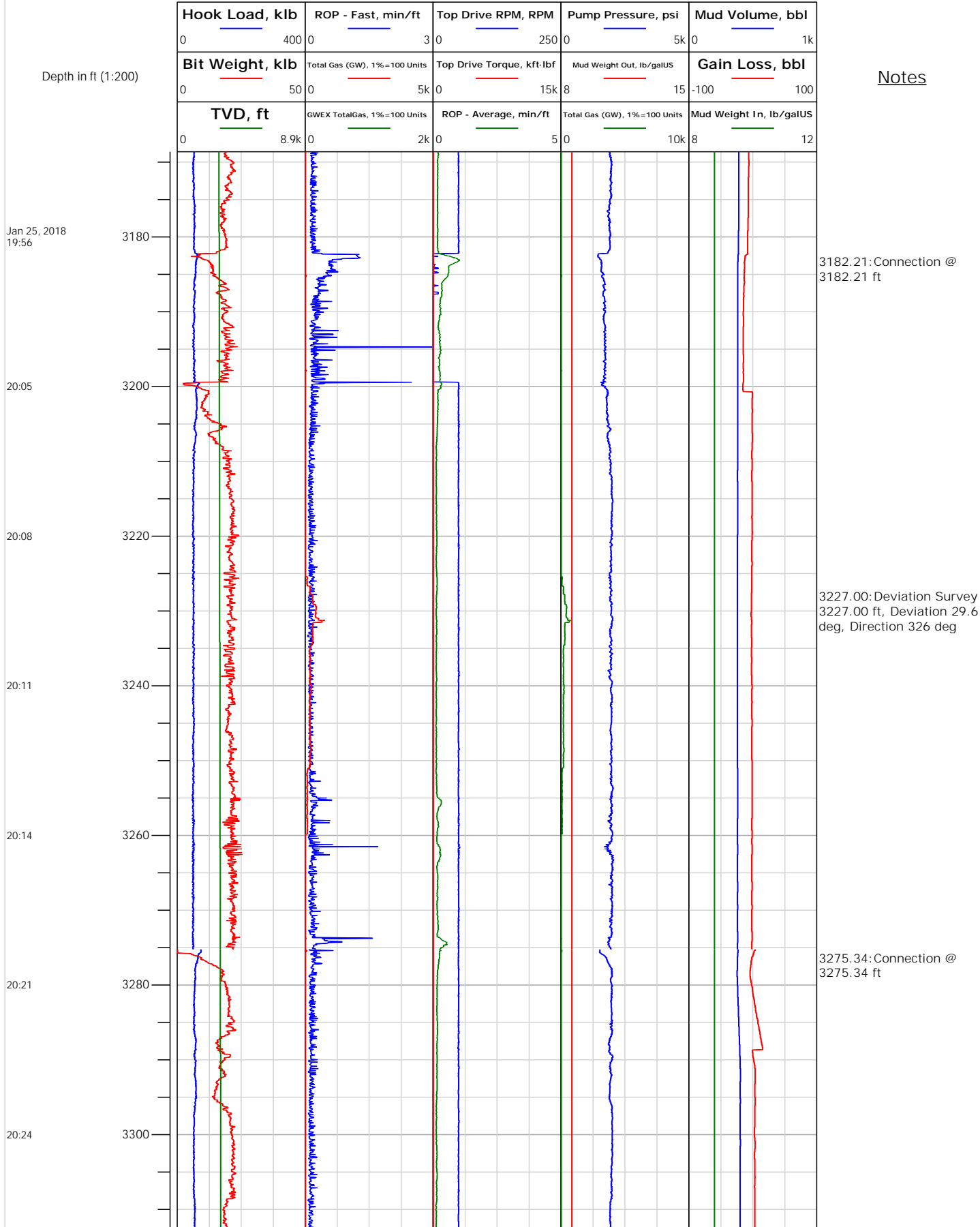
# Electronic Drilling Recorder

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

**Well Name:** Nichols 0994-13-21W  
**Rig:** 290

**Location:** SW/4 Of NE/4

## Notes



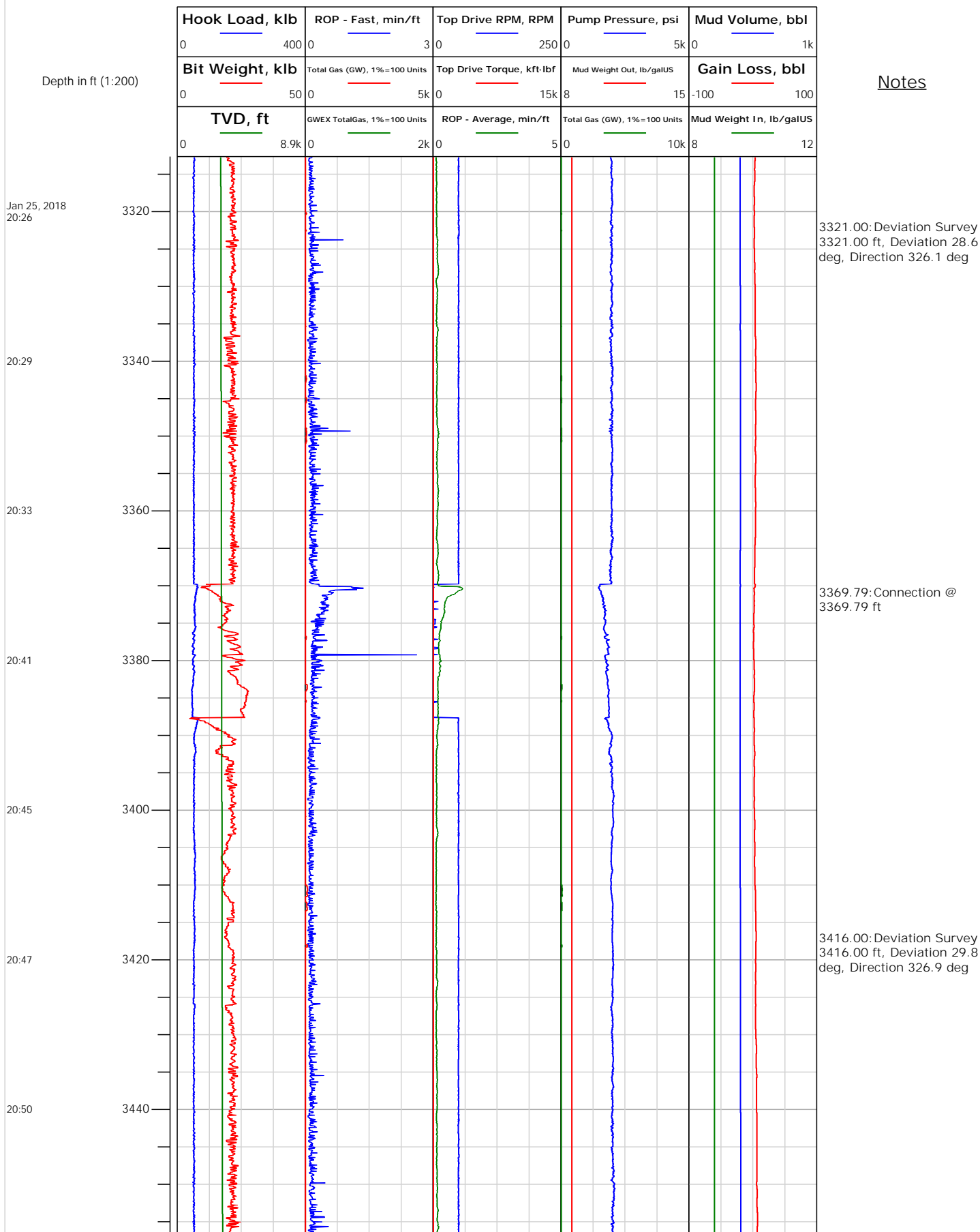


## Electronic Drilling Recorder

Operator: Laramie Energy  
Contractor: Helmerich & Payne Drlg Co

Well Name: Nichols 0994-13-21W  
Rig: 290

Location: SW/4 Of NE/4





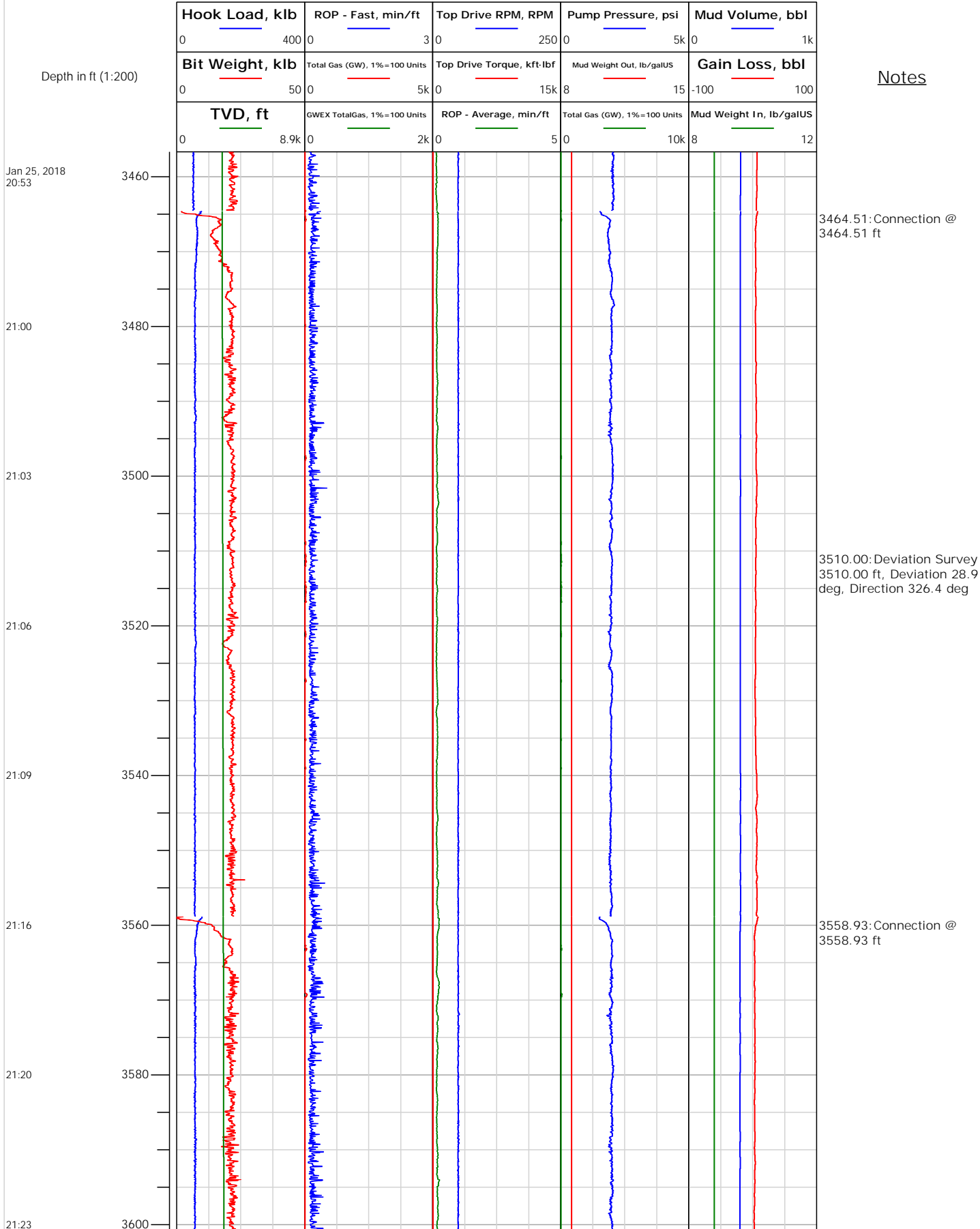
# Electronic Drilling Recorder

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

**Well Name:** Nichols 0994-13-21W  
**Rig:** 290

**Location:** SW/4 Of NE/4

## Notes





# Electronic Drilling Recorder

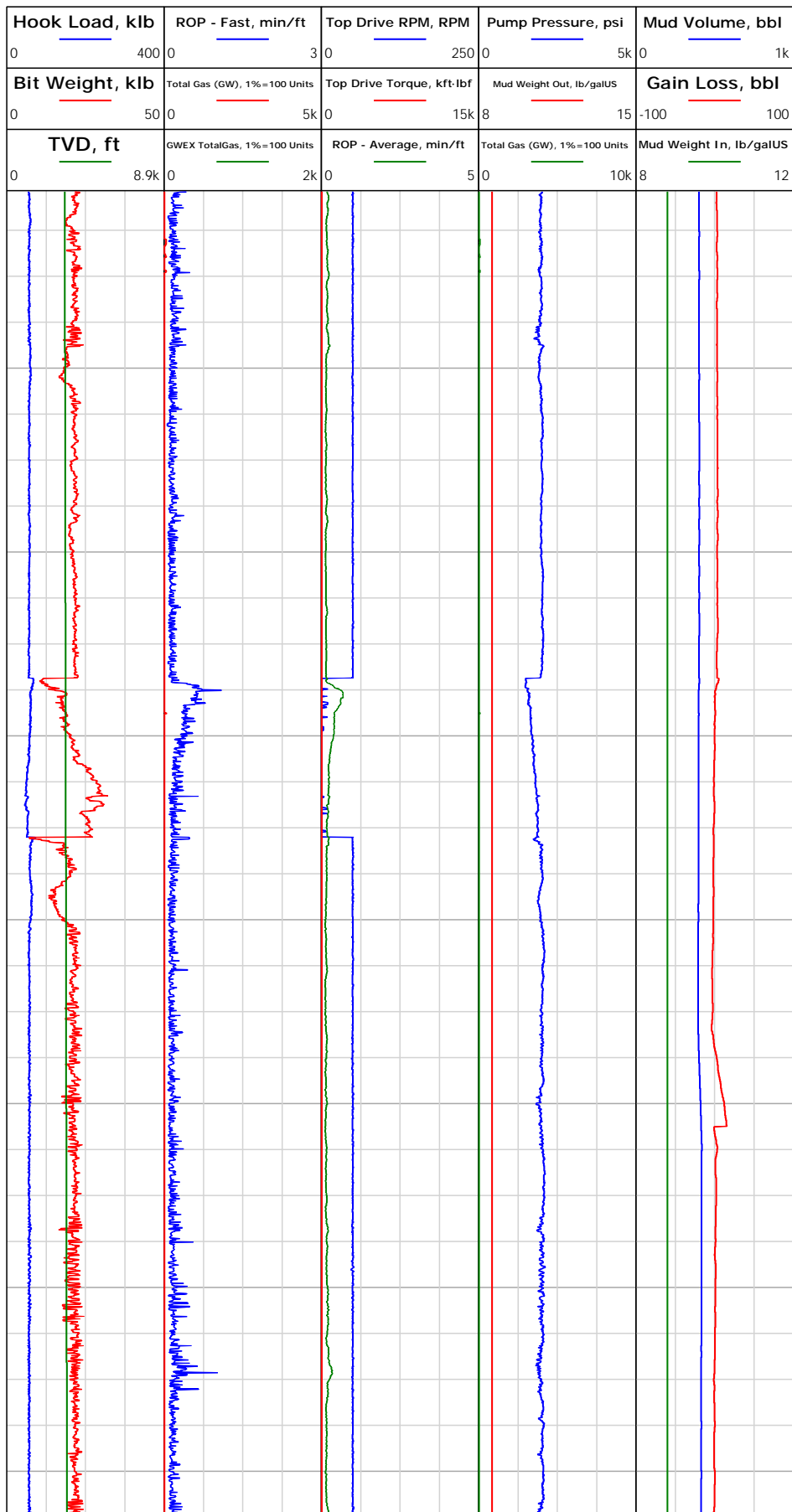
**Operator:** Laramie Energy  
**Contractor:** Helmerich & Payne Drlg Co

**Well Name:** Nichols 0994-13-21W  
**Rig:** 290

**Location:** SW/4 OF NE/4

## Notes

Depth in ft (1:200)



3604.99: Deviation Survey  
3605.00 ft, Deviation 2.1  
deg, Direction 326.4 deg

3653.77: Connection @  
3653.77 ft

3700.00: Deviation Survey  
3700.00 ft, Deviation 29.9  
deg, Direction 326 deg

Jan 25, 2018  
21:27

21:30

21:38

21:42

21:45

21:48

21:52





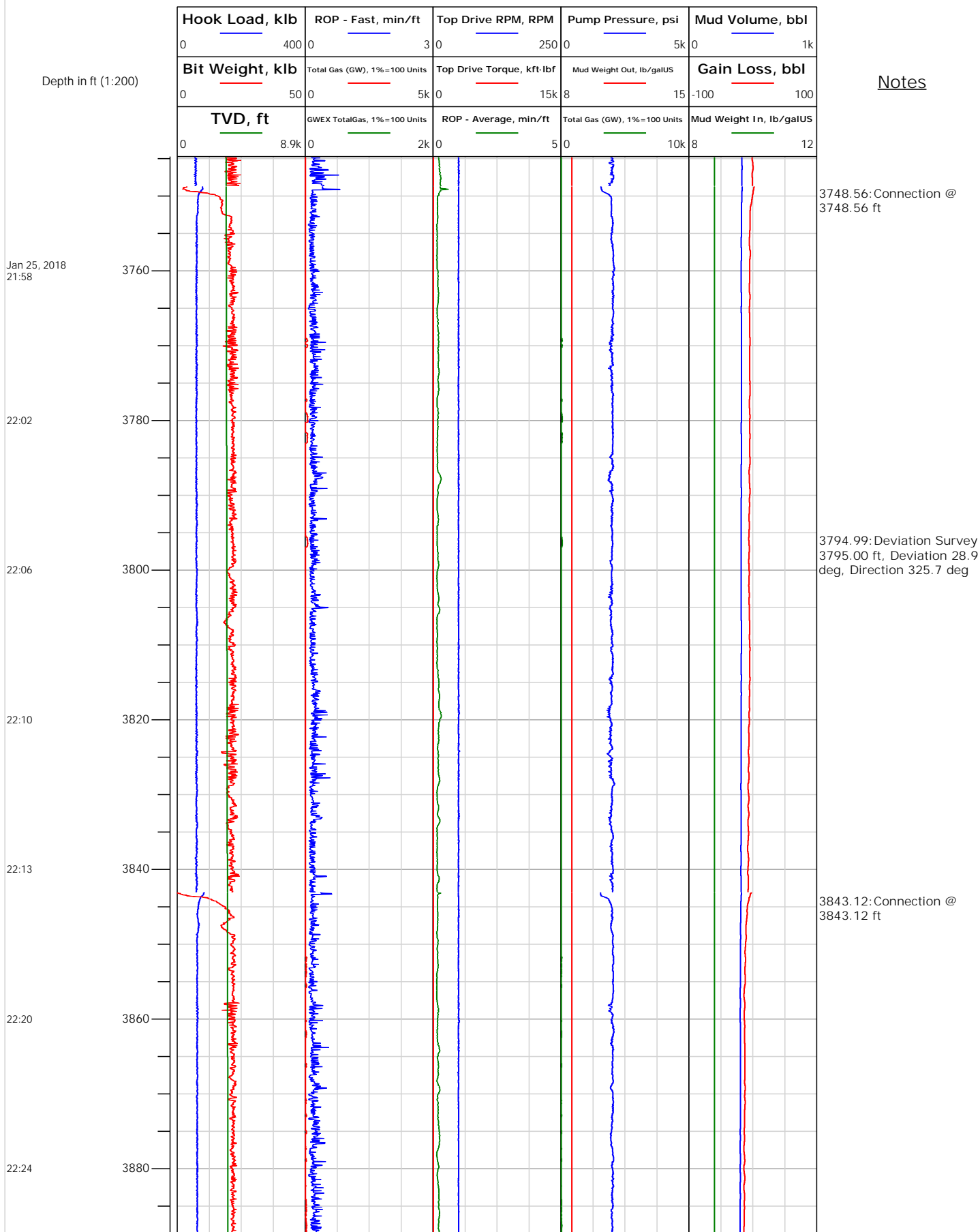
# Electronic Drilling Recorder

Operator: Laramie Energy  
Contractor: Helmerich & Payne Drlg Co

Well Name: Nichols 0994-13-21W  
Rig: 290

Location: SW/4 OF NE/4

## Notes





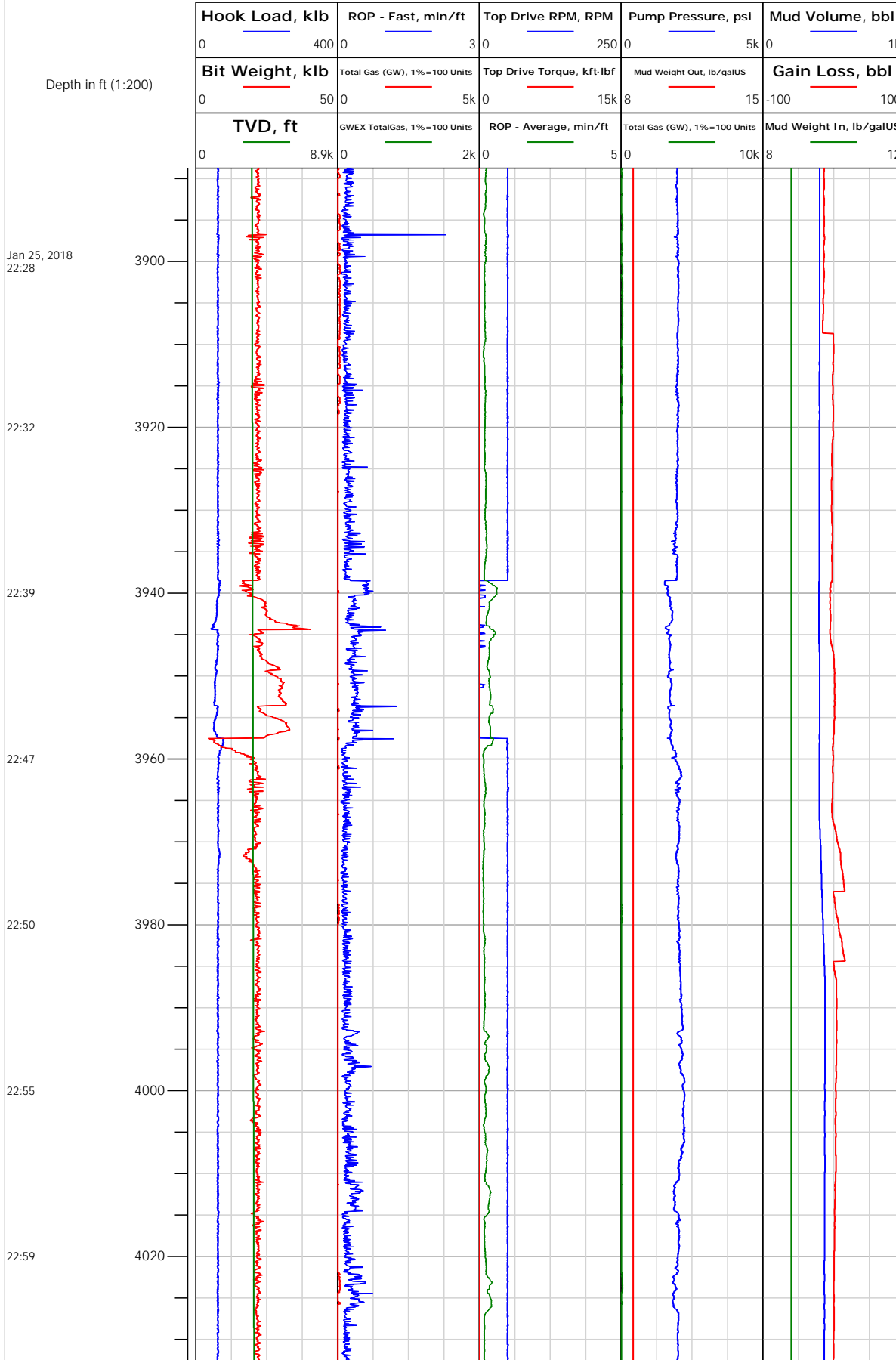
# Electronic Drilling Recorder

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

**Well Name:** Nichols 0994-13-21W  
**Rig:** 290

**Location:** SW/4 Of NE/4

## Notes



3889.00: Deviation Survey  
3889.00 ft, Deviation 27.7 deg, Direction 325.3 deg

3938.50: Connection @  
3938.50 ft

3983.00: Deviation Survey  
3983.00 ft, Deviation 28.9 deg, Direction 325.8 deg



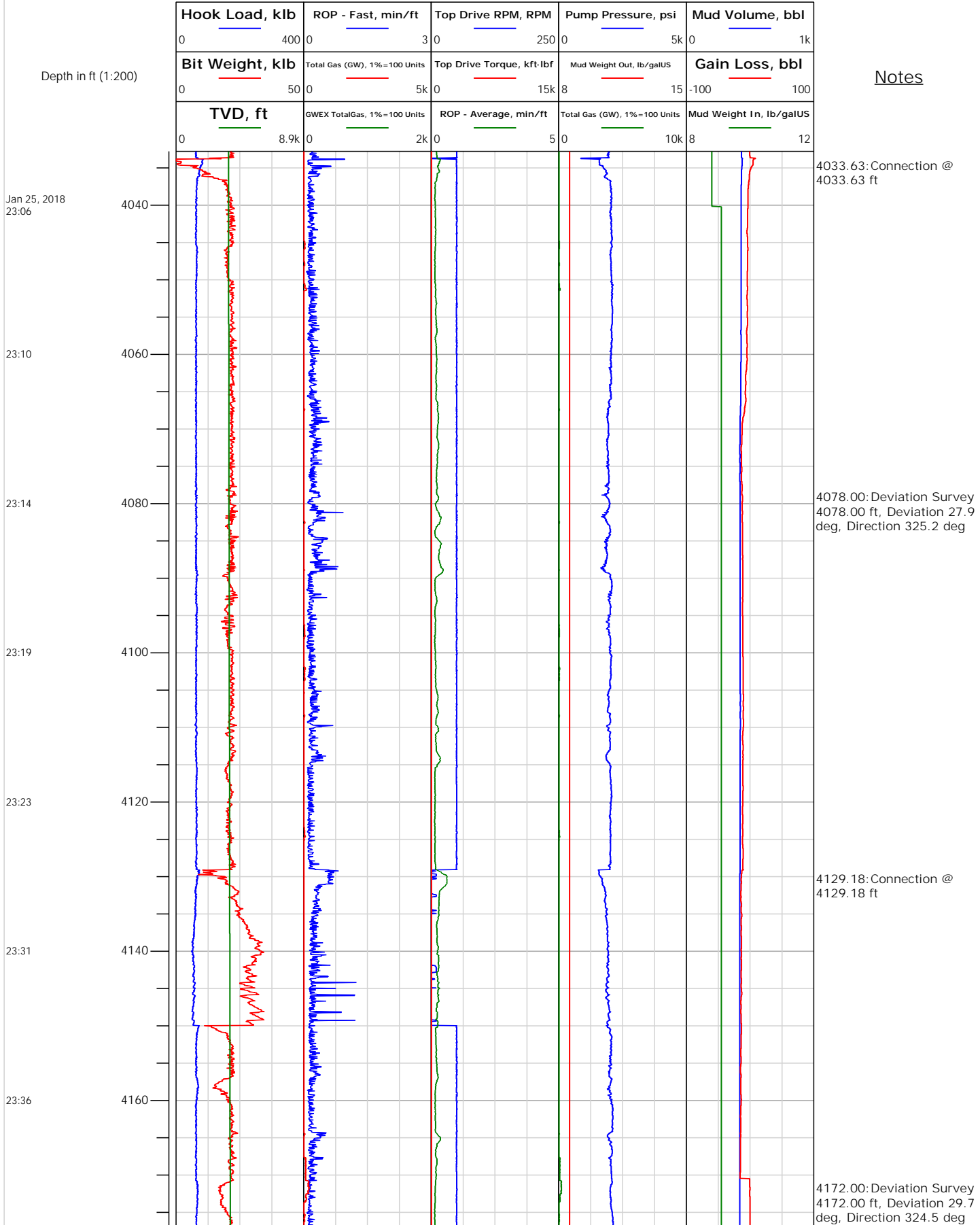
# Electronic Drilling Recorder

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

**Well Name:** Nichols 0994-13-21W  
**Rig:** 290

**Location:** SW/4 OF NE/4

## Notes



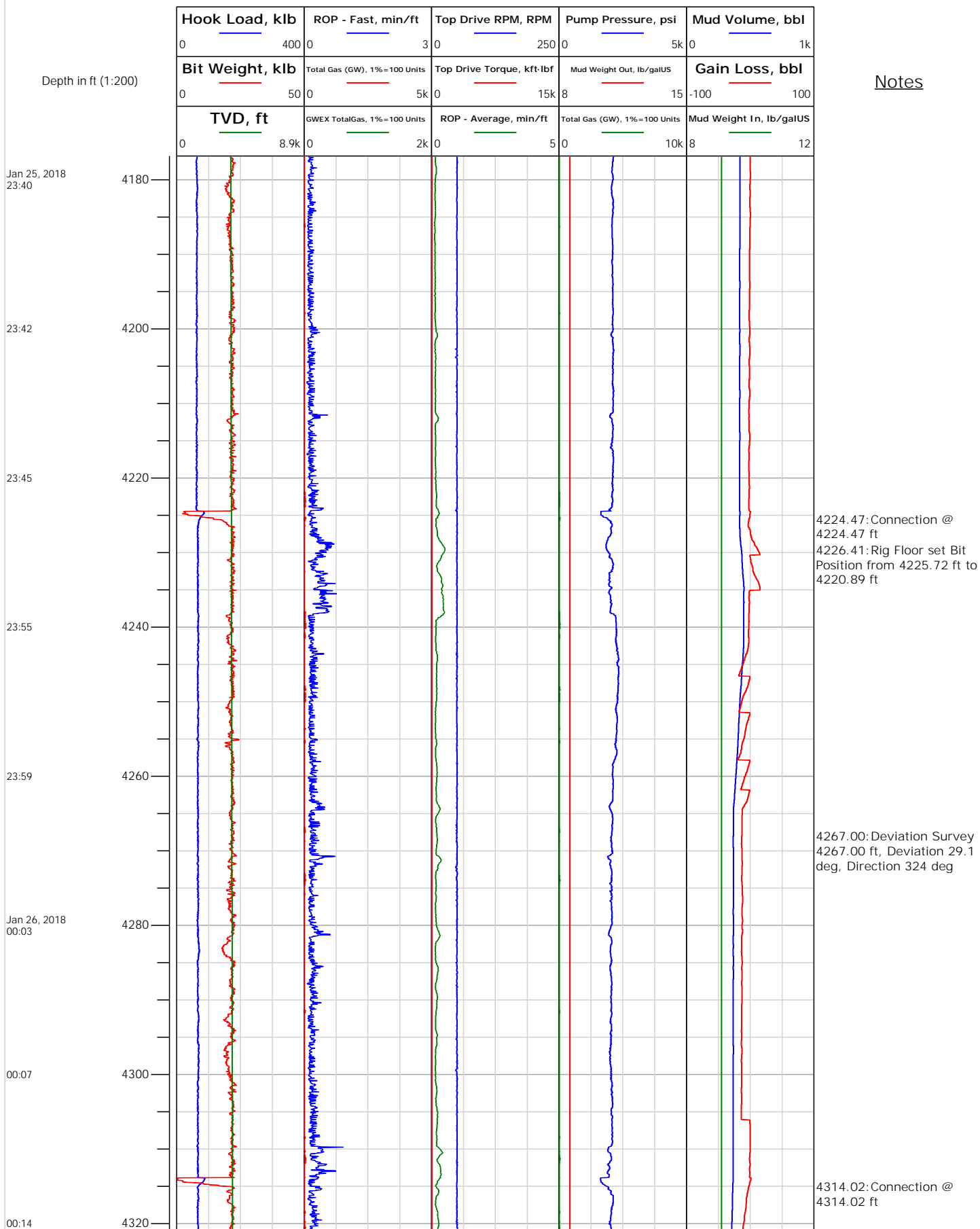


## Electronic Drilling Recorder

Operator: Laramie Energy  
Contractor: Helmerich & Payne Drlg Co

Well Name: Nichols 0994-13-21W  
Rig: 290

Location: SW/4 Of NE/4





# Electronic Drilling Recorder

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

**Well Name:** Nichols 0994-13-21W  
**Rig:** 290

**Location:** SW/4 Of NE/4

## Notes

Depth in ft (1:200)

Jan 26, 2018  
00:17

00:21

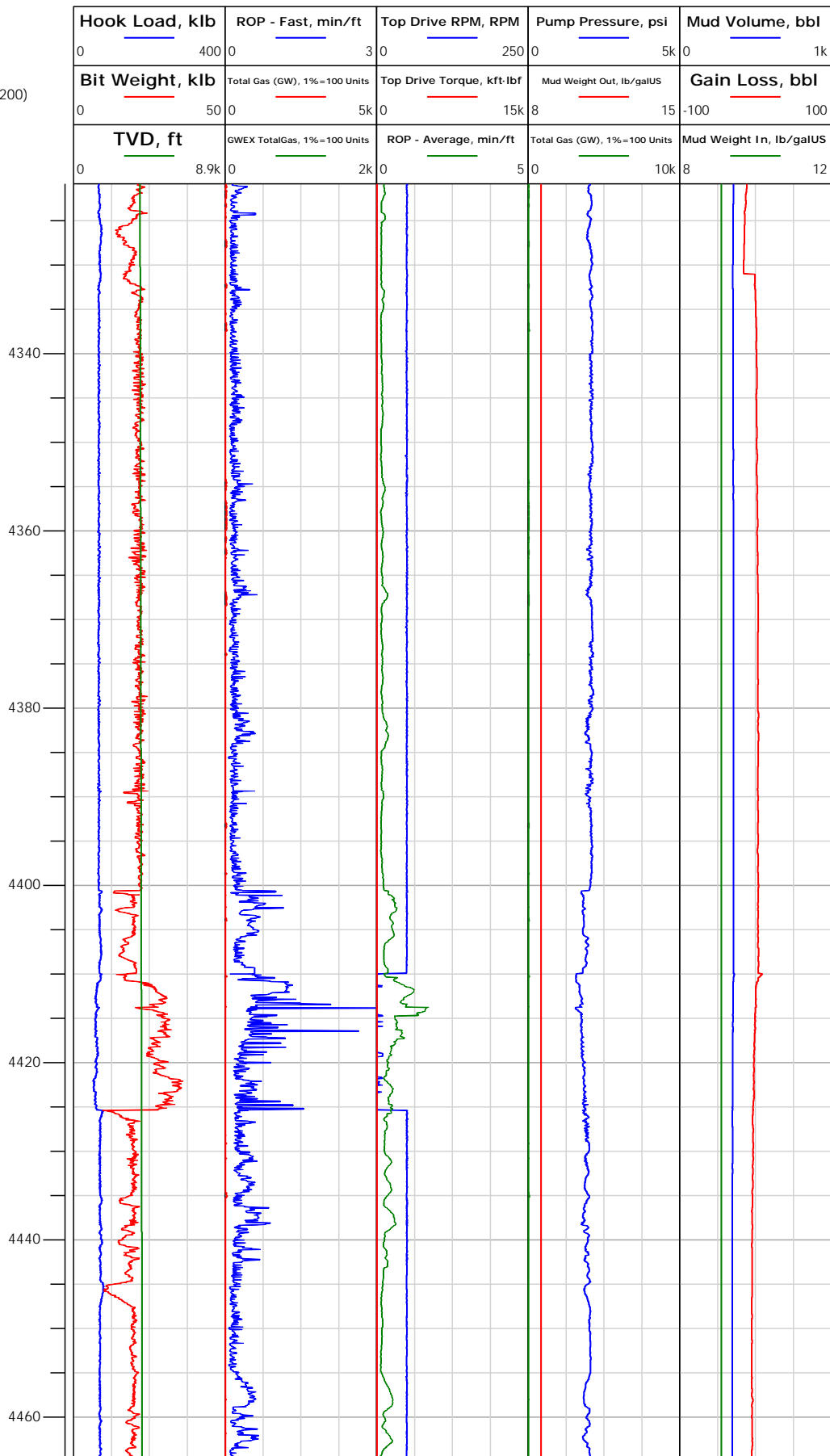
00:25

00:29

00:43

00:51

00:56



4362.00: Deviation Survey  
4362.00 ft, Deviation 28.1  
deg, Direction 323.7 deg

4410.04: Connection @  
4410.04 ft

4456.00: Deviation Survey  
4456.00 ft, Deviation 29.1  
deg, Direction 322.4 deg



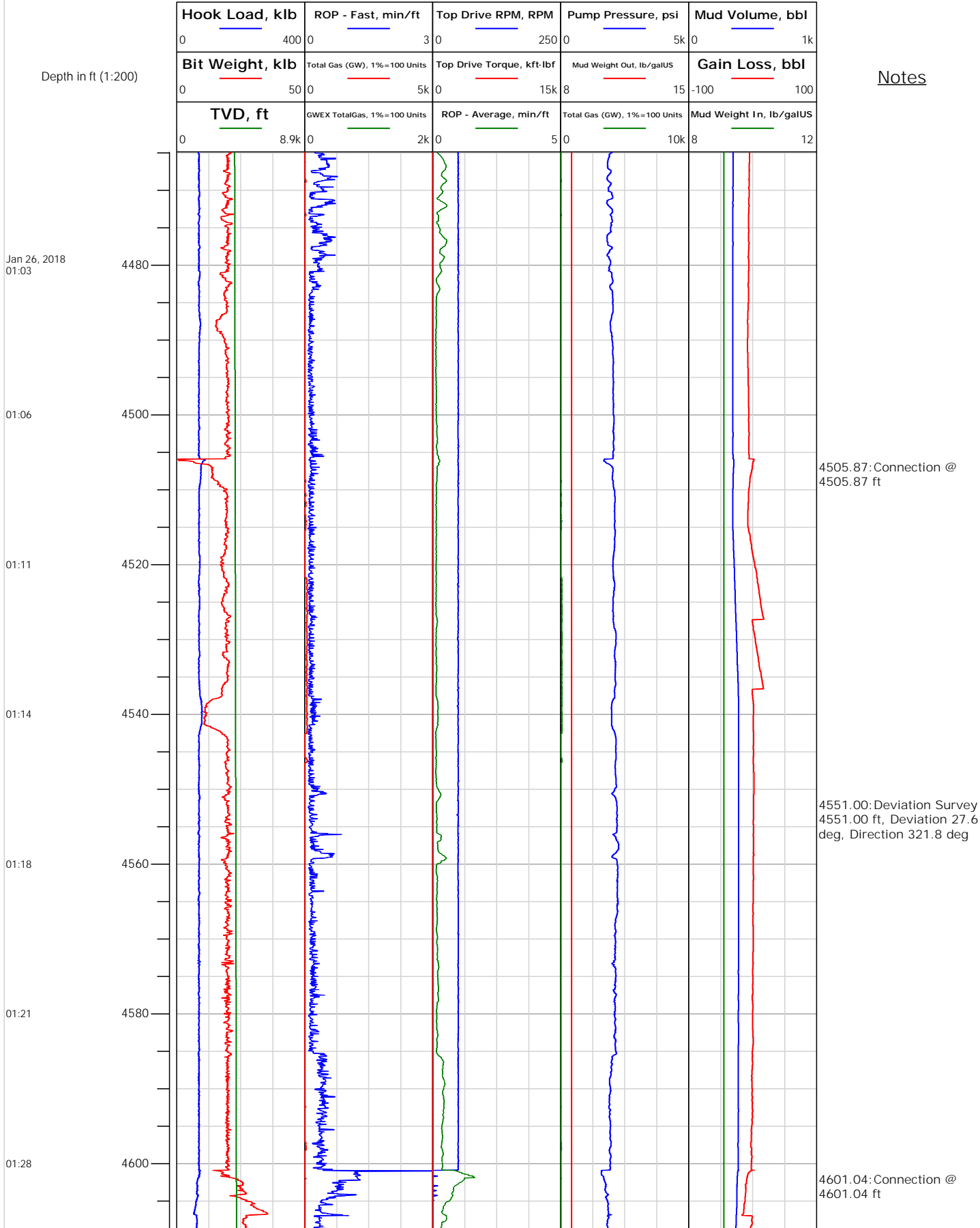
# Electronic Drilling Recorder

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

**Well Name:** Nichols 0994-13-21W  
**Rig:** 290

**Location:** SW/4 OF NE/4

## Notes





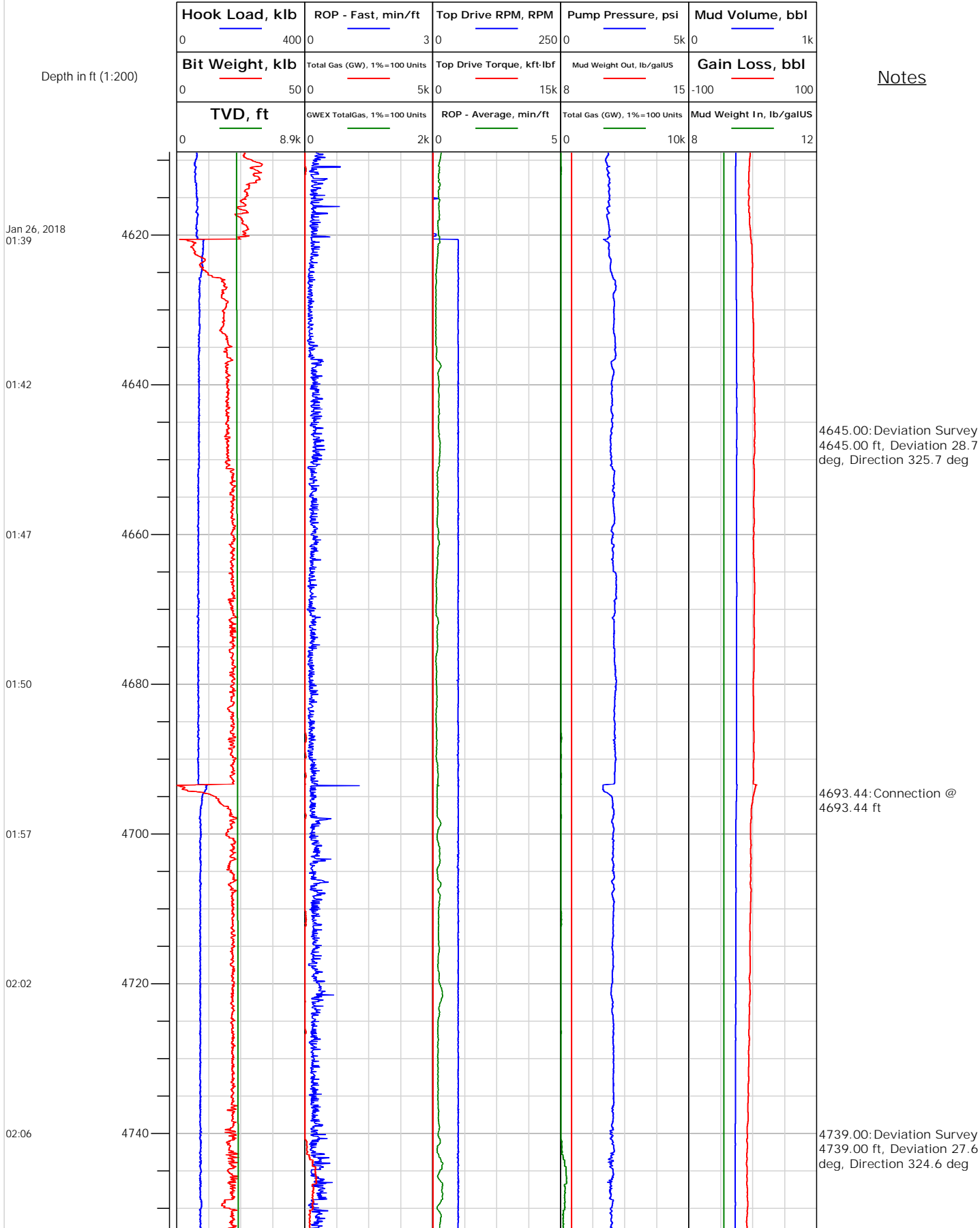
# Electronic Drilling Recorder

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

**Well Name:** Nichols 0994-13-21W  
**Rig:** 290

**Location:** SW/4 Of NE/4

## Notes





# Electronic Drilling Recorder

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

**Well Name:** Nichols 0994-13-21W  
**Rig:** 290

**Location:** SW/4 Of NE/4

## Notes

Depth in ft (1:200)

Jan 26, 2018  
02:11

02:16

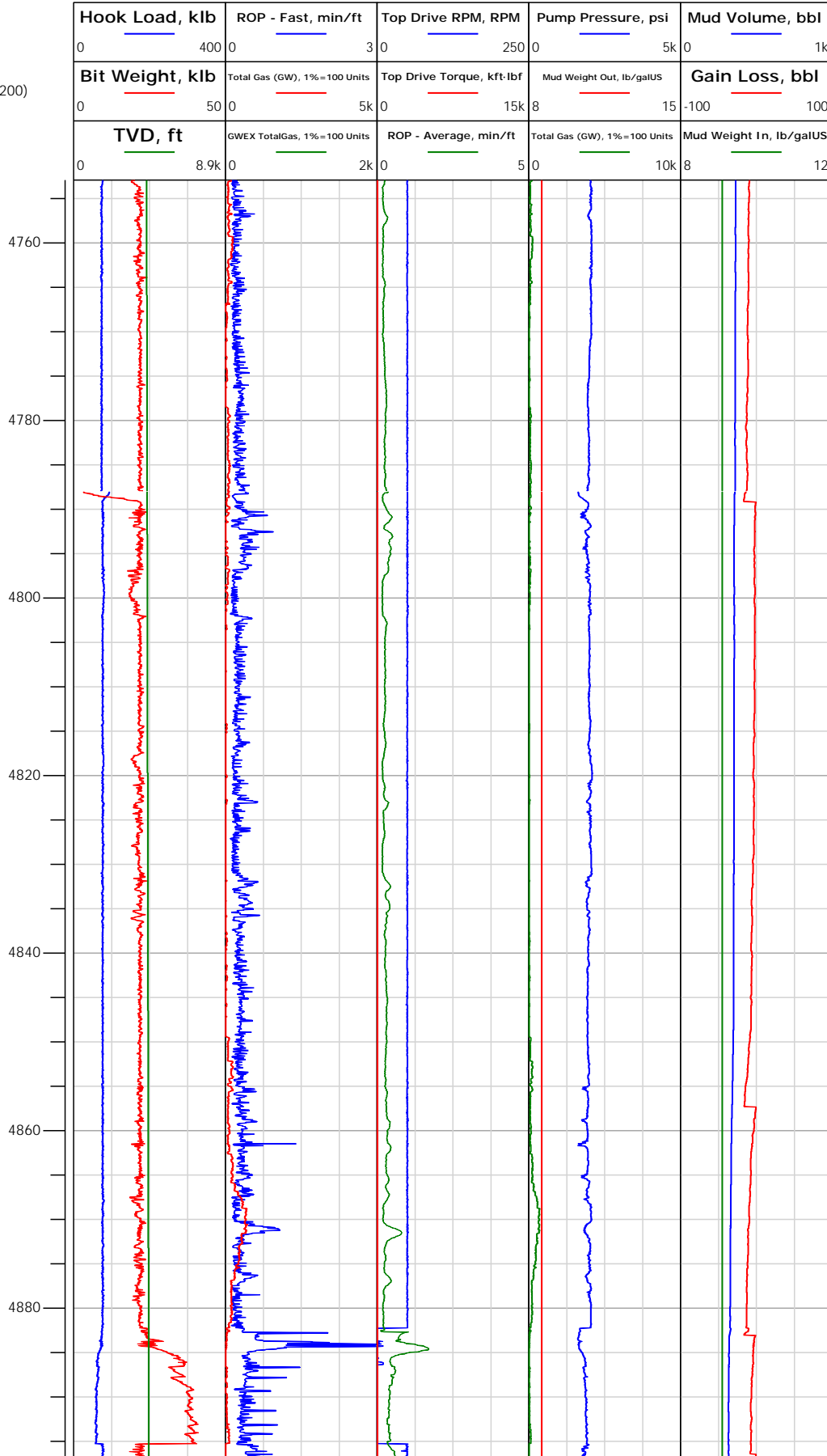
02:26

02:30

02:36

02:42

02:48





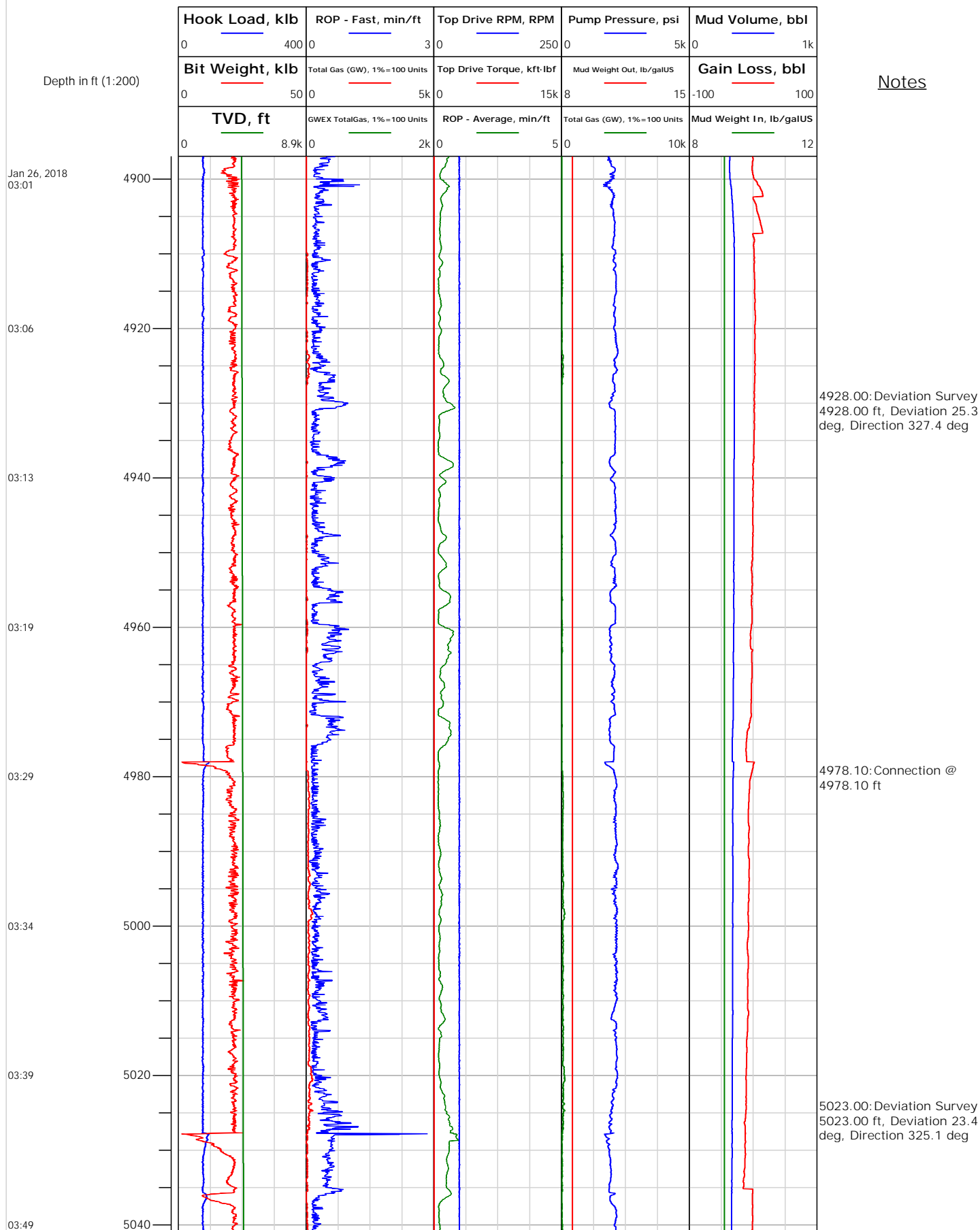


## Electronic Drilling Recorder

Operator: Laramie Energy  
Contractor: Helmerich & Payne Drlg Co

Well Name: Nichols 0994-13-21W  
Rig: 290

Location: SW/4 OF NE/4





# Electronic Drilling Recorder

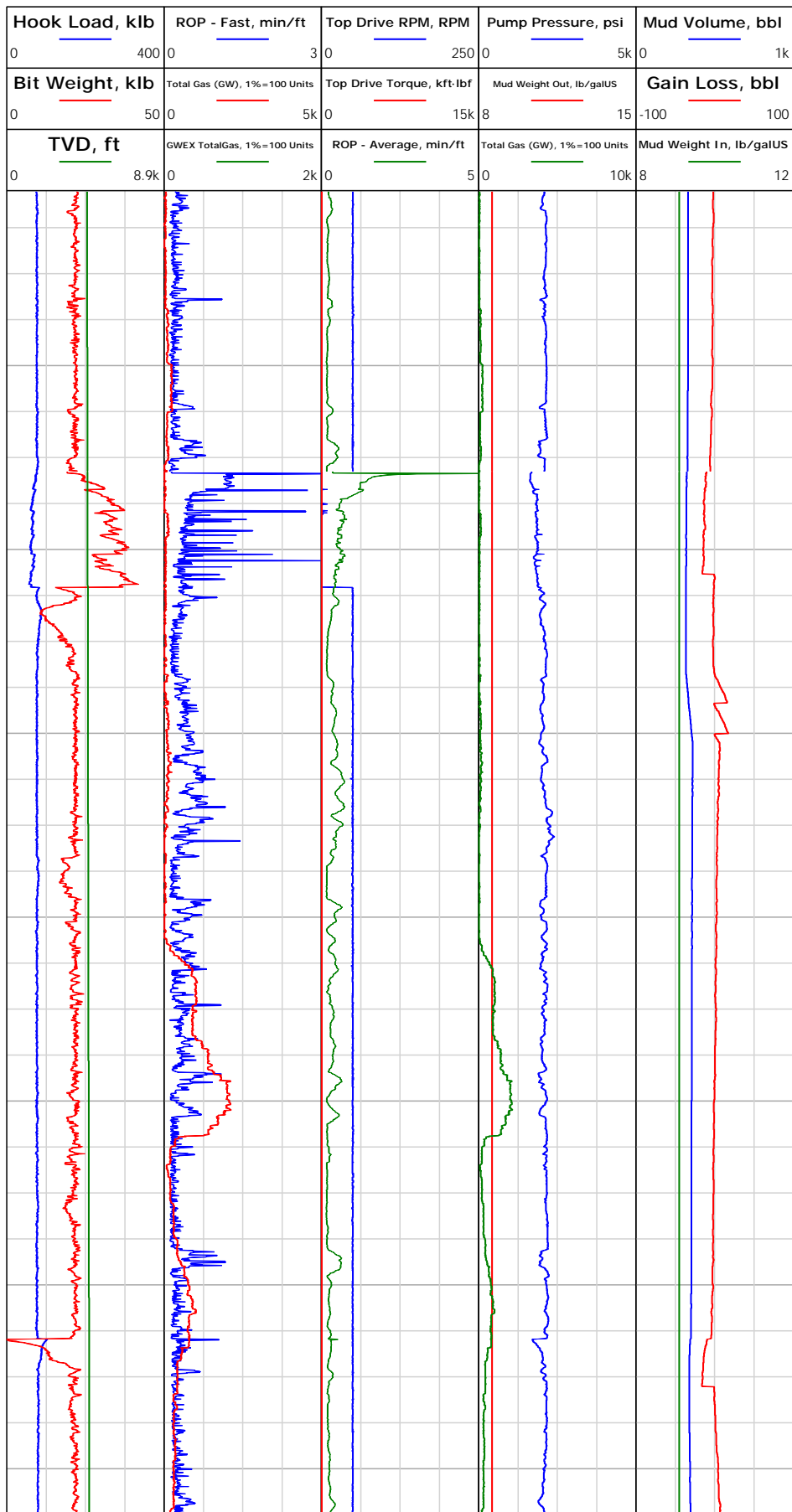
**Operator:** Laramie Energy  
**Contractor:** Helmerich & Payne Drlg Co

**Well Name:** Nichols 0994-13-21W  
**Rig:** 290

**Location:** SW/4 OF NE/4

## Notes

Depth in ft (1:200)



Jan 26, 2018  
03:53

04:07

04:15

04:23

04:30

04:35

04:43

5071.48: Connection @  
5071.48 ft

5117.00: Deviation Survey  
5117.00 ft, Deviation 22  
deg, Direction 327.9 deg

5165.93: Connection @  
5165.93 ft



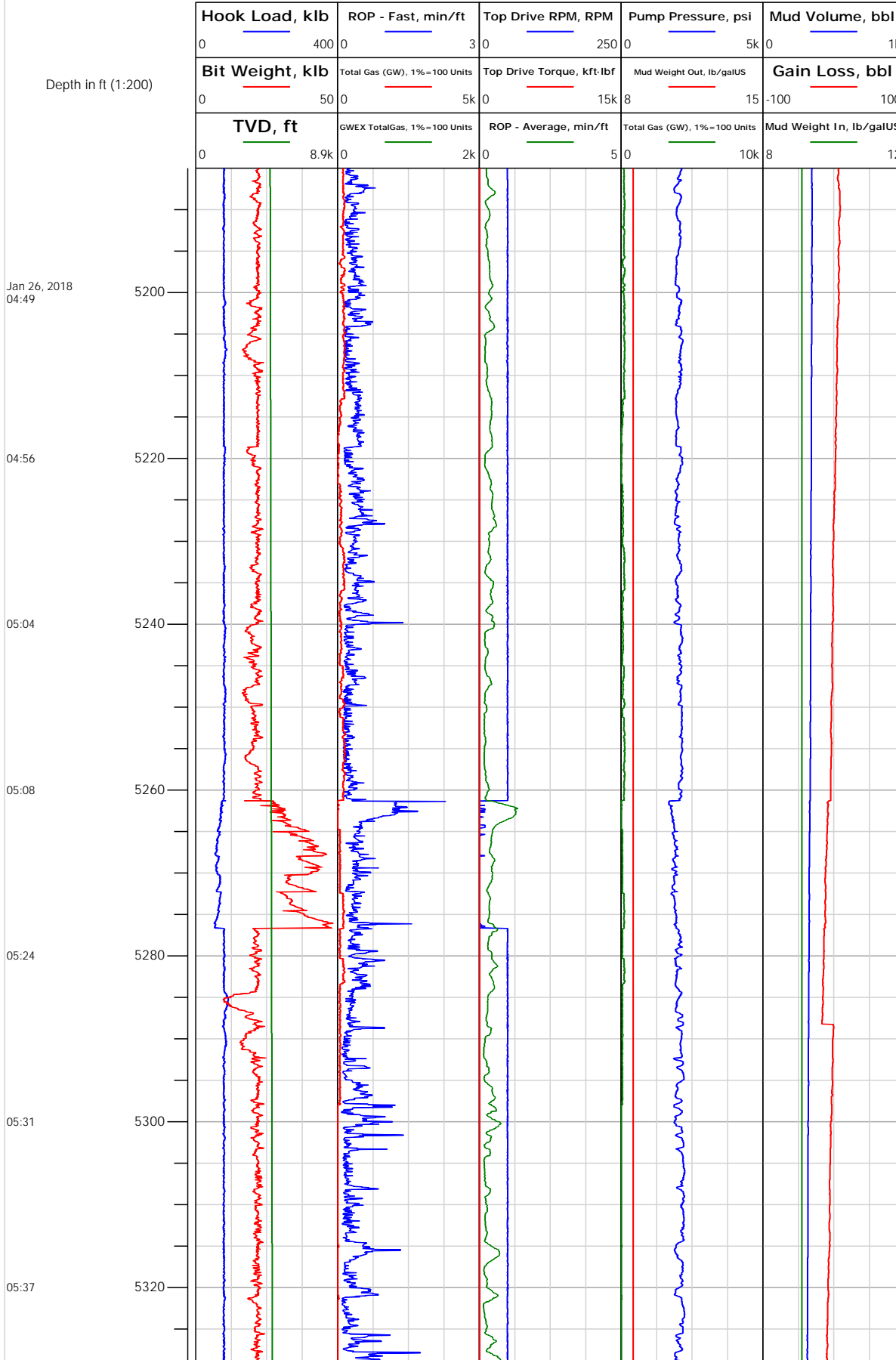
# Electronic Drilling Recorder

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

**Well Name:** Nichols 0994-13-21W  
**Rig:** 290

**Location:** SW/4 Of NE/4

## Notes





# Electronic Drilling Recorder

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

**Well Name:** Nichols 0994-13-21W  
**Rig:** 290

**Location:** SW/4 Of NE/4

## Notes

Depth in ft (1:200)

Jan 26, 2018  
05:43

05:53

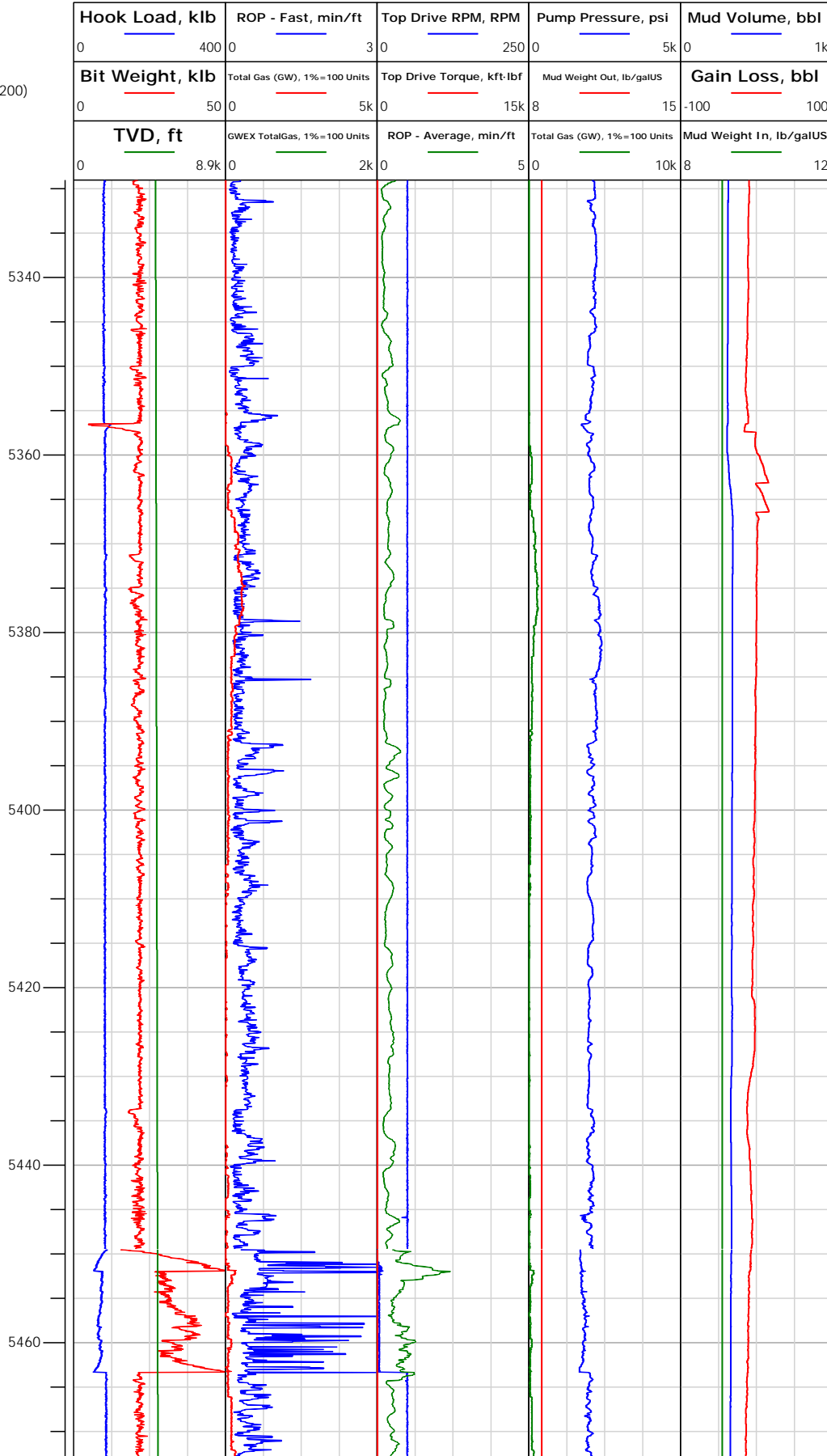
06:00

06:07

06:15

06:23

06:43





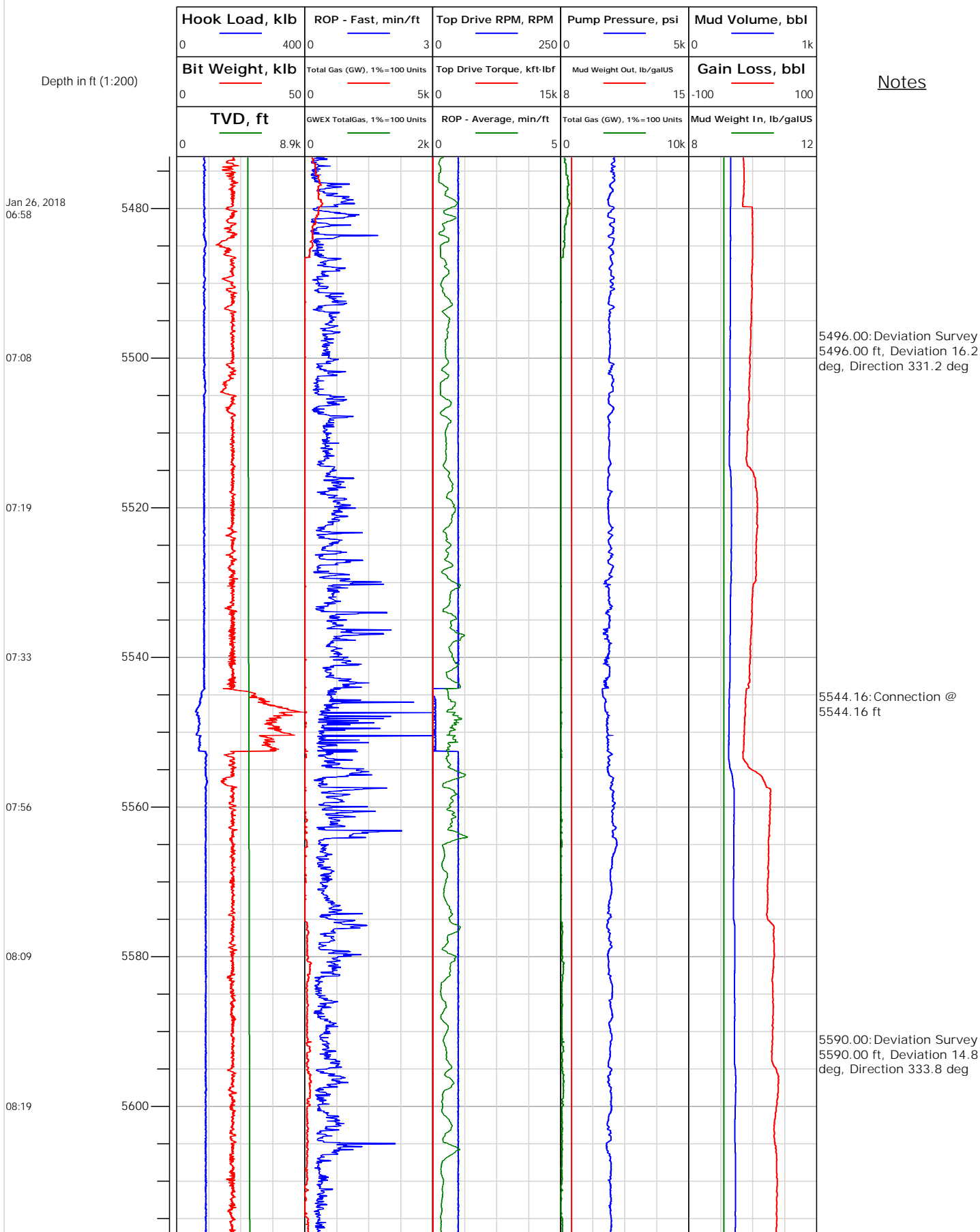
# Electronic Drilling Recorder

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

**Well Name:** Nichols 0994-13-21W  
**Rig:** 290

**Location:** SW/4 Of NE/4

## Notes





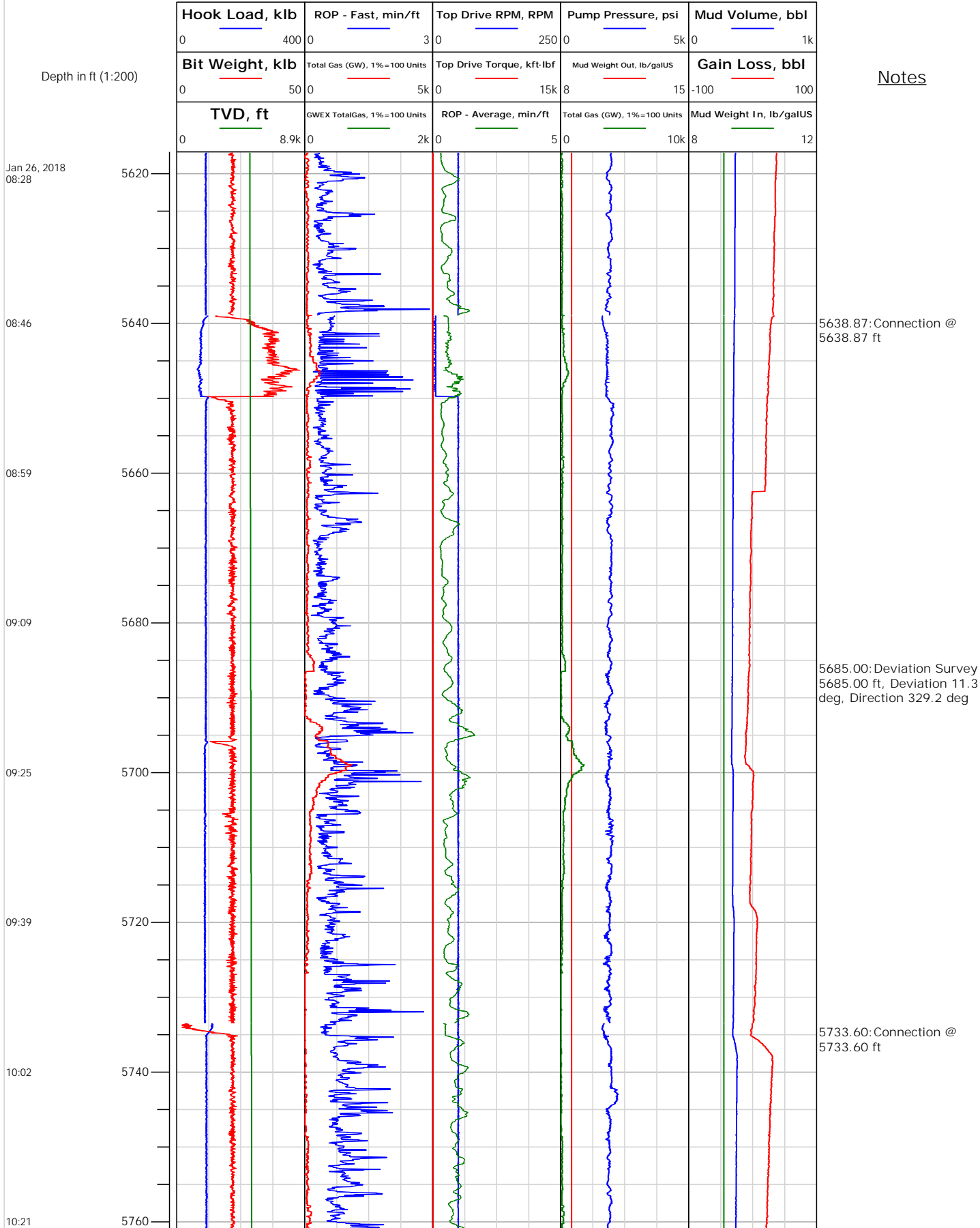
# Electronic Drilling Recorder

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

**Well Name:** Nichols 0994-13-21W  
**Rig:** 290

**Location:** SW/4 Of NE/4

## Notes





## Electronic Drilling Recorder

Operator: Laramie Energy  
Contractor: Helmerich & Payne Drlg Co

Well Name: Nichols 0994-13-21W  
Rig: 290

Location: SW/4 Of NE/4

## Notes

Depth in ft (1:200)

Jan 26, 2018  
10:37

10:51

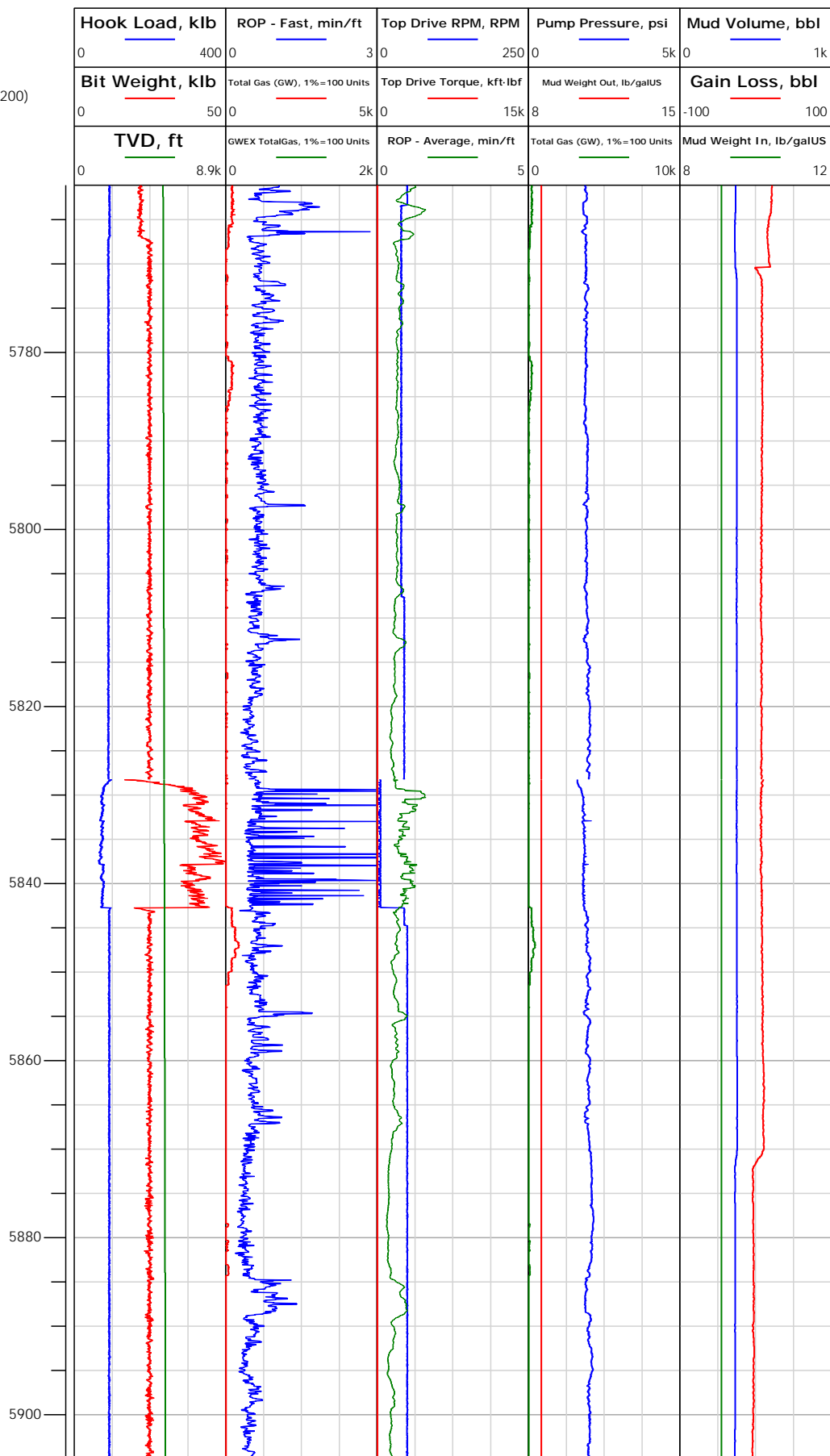
11:03

11:25

11:39

11:49

12:00





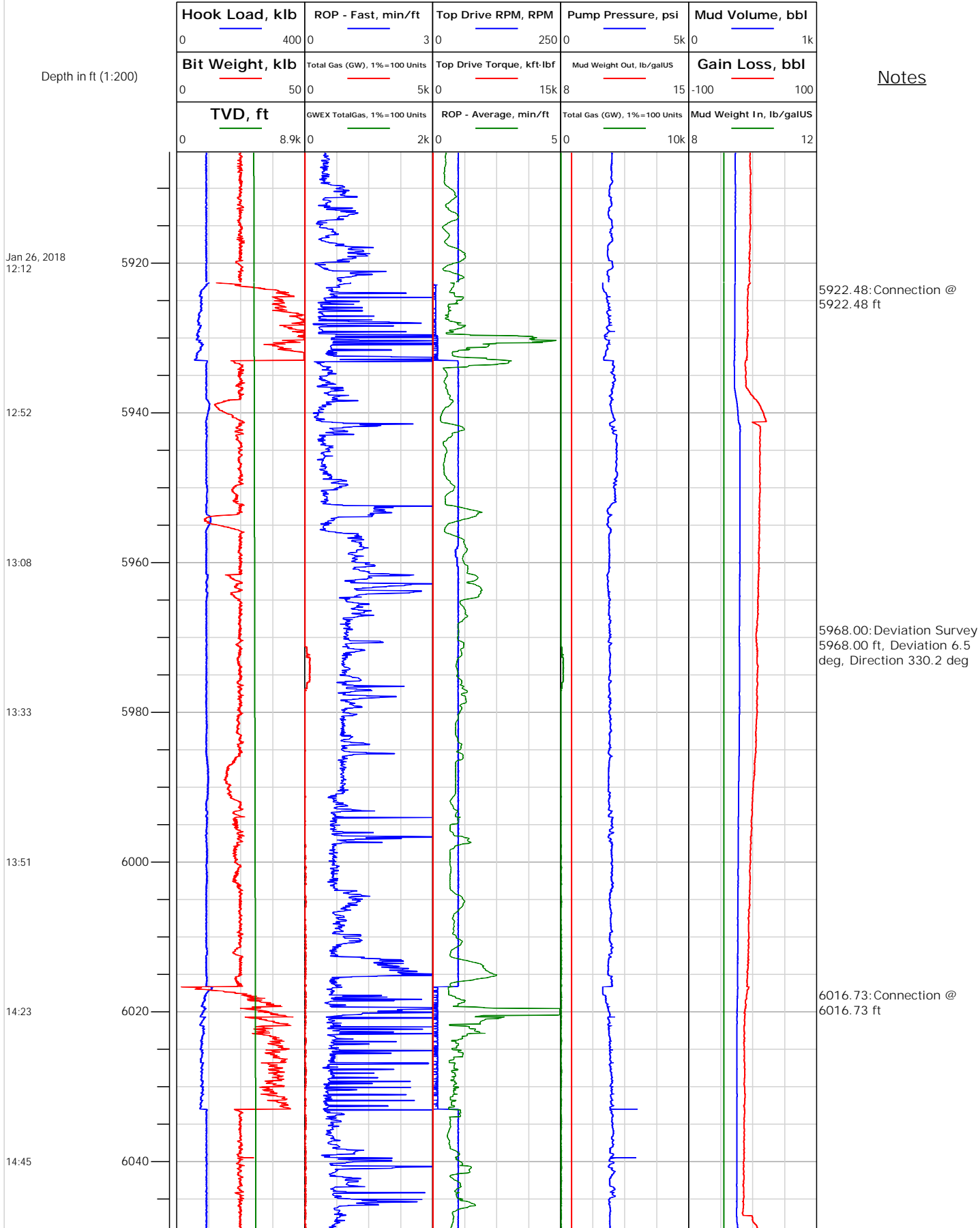
# Electronic Drilling Recorder

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

**Well Name:** Nichols 0994-13-21W  
**Rig:** 290

**Location:** SW/4 OF NE/4

## Notes







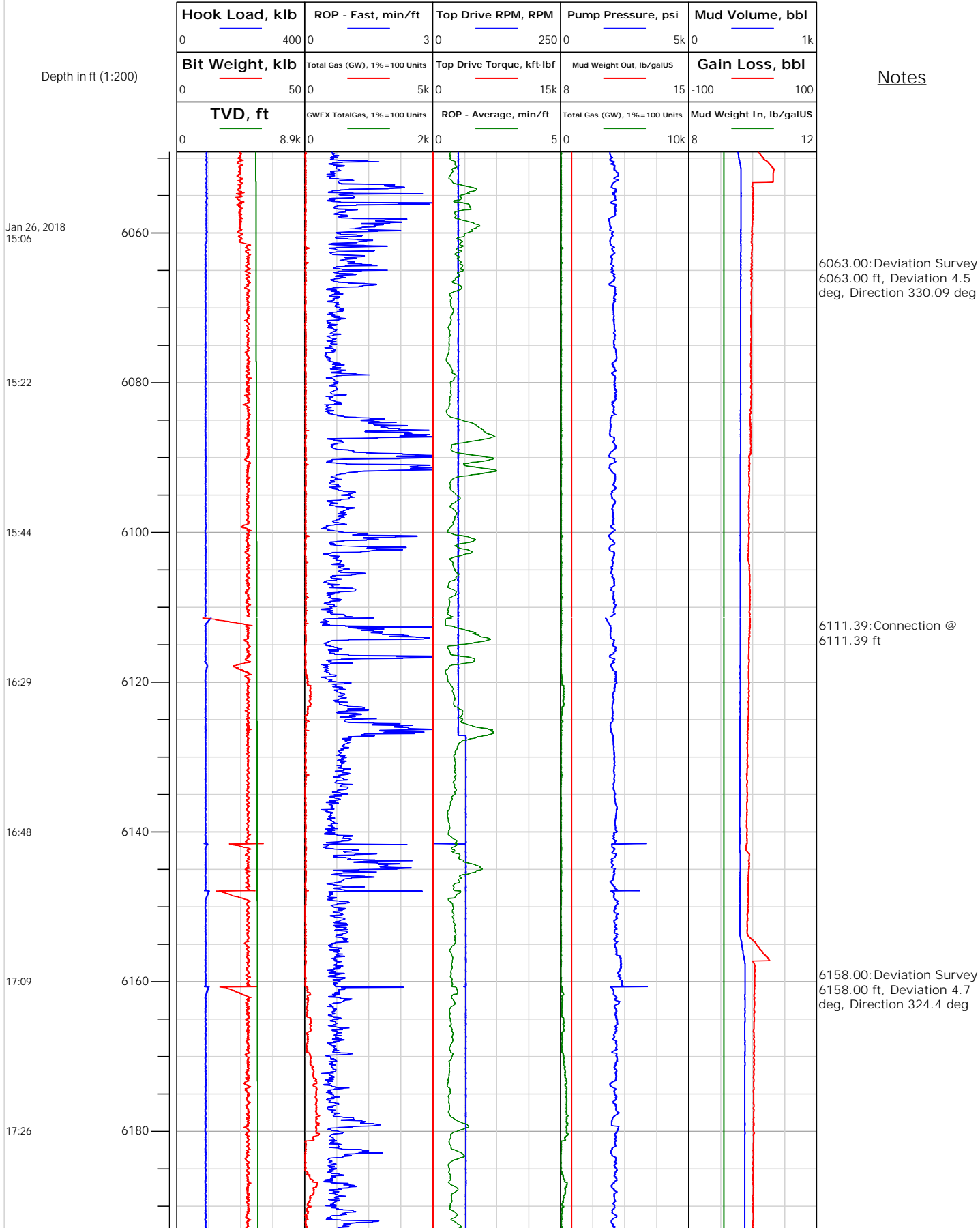
# Electronic Drilling Recorder

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

**Well Name:** Nichols 0994-13-21W  
**Rig:** 290

**Location:** SW/4 OF NE/4

## Notes





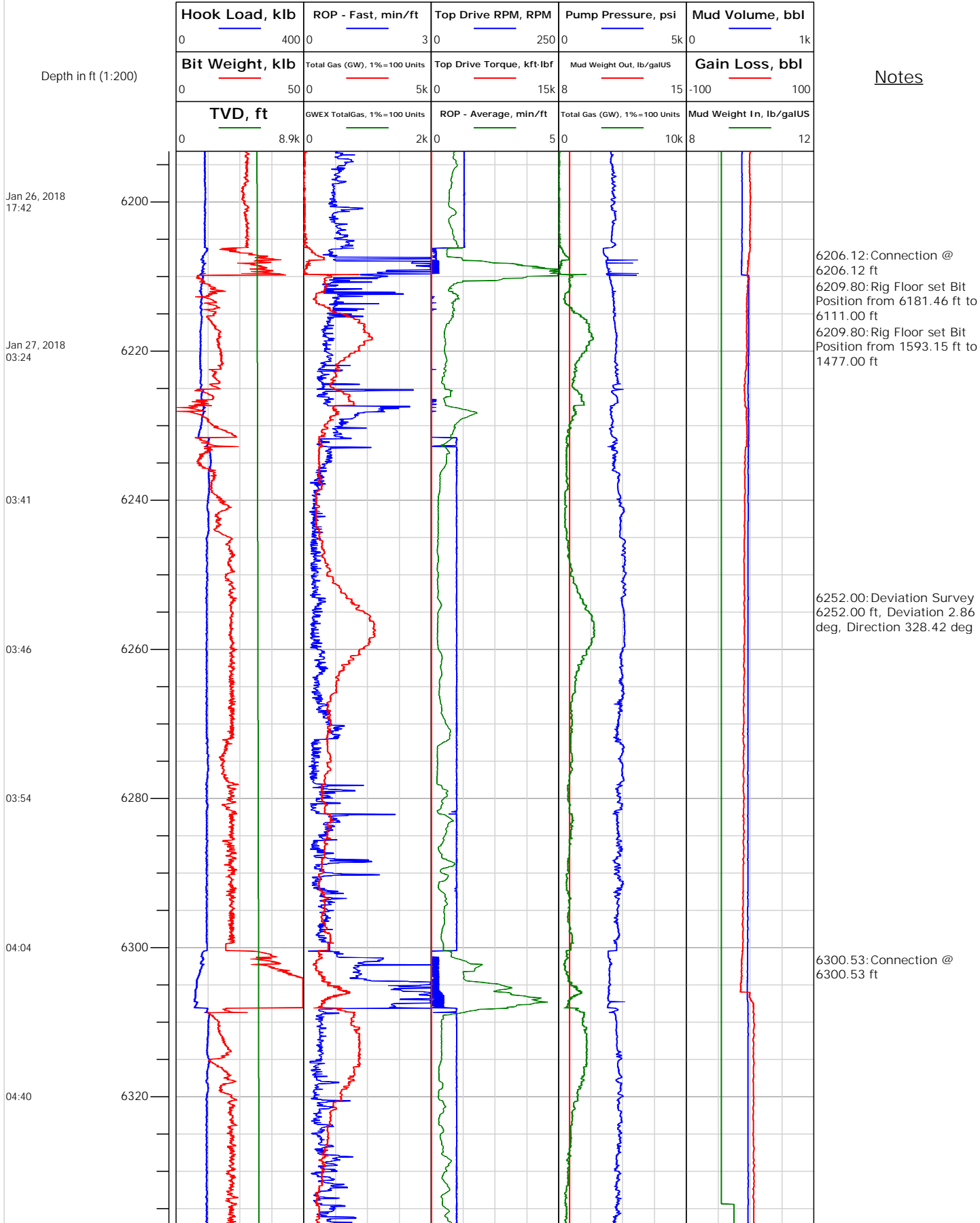
# Electronic Drilling Recorder

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

**Well Name:** Nichols 0994-13-21W  
**Rig:** 290

**Location:** SW/4 OF NE/4

## Notes





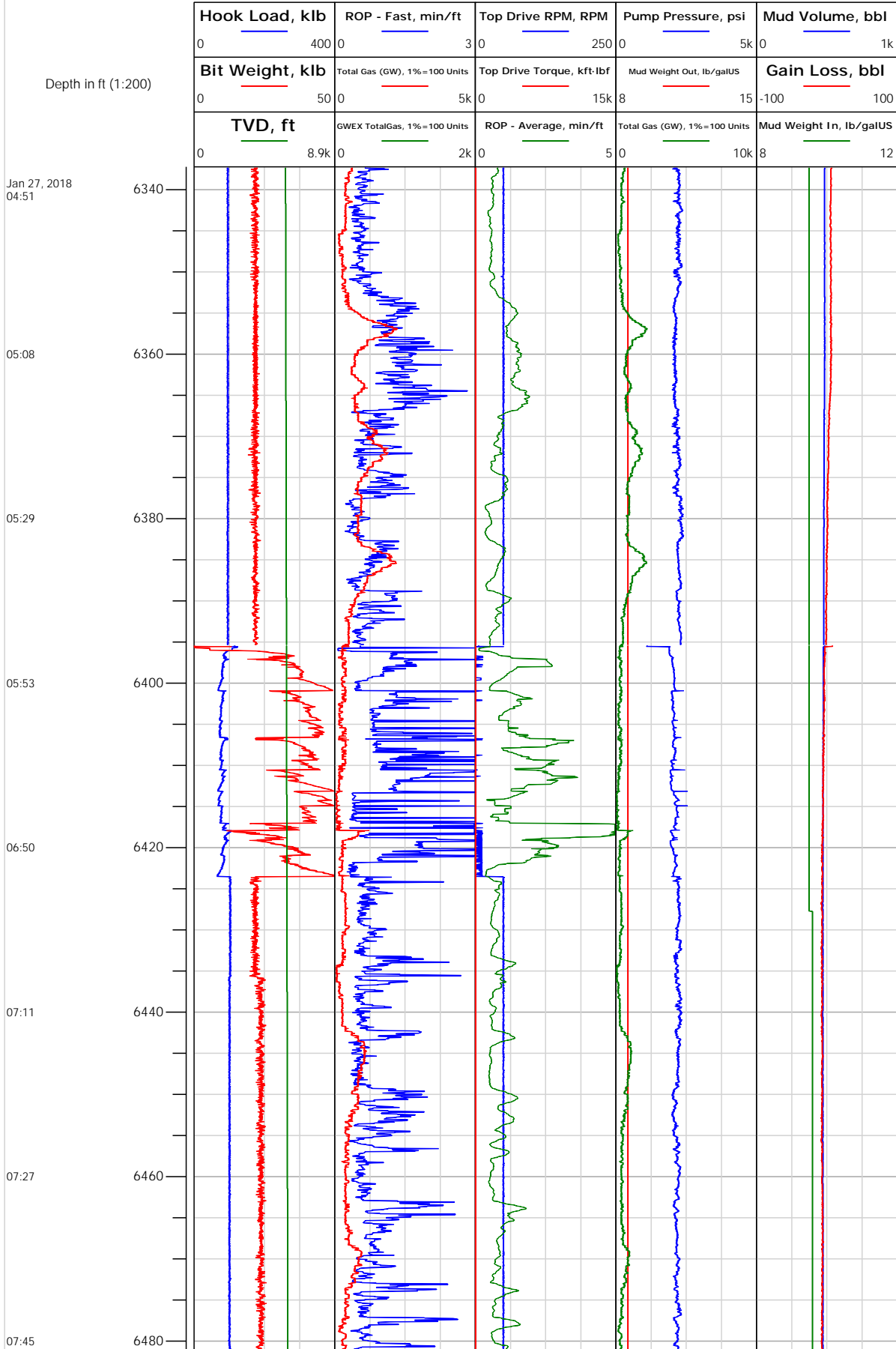
# Electronic Drilling Recorder

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

**Well Name:** Nichols 0994-13-21W  
**Rig:** 290

**Location:** SW/4 Of NE/4

Notes





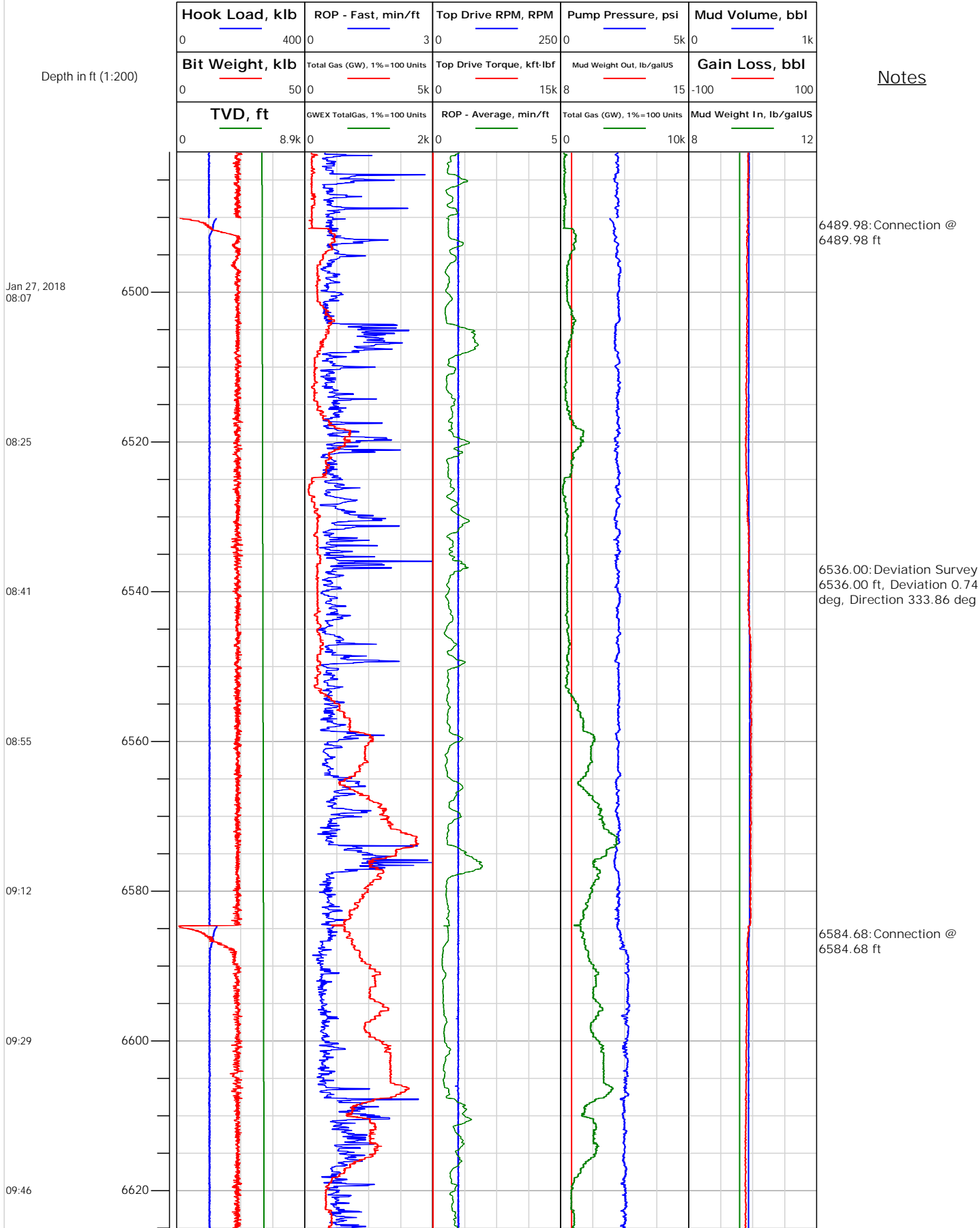
# Electronic Drilling Recorder

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

**Well Name:** Nichols 0994-13-21W  
**Rig:** 290

**Location:** SW/4 Of NE/4

## Notes





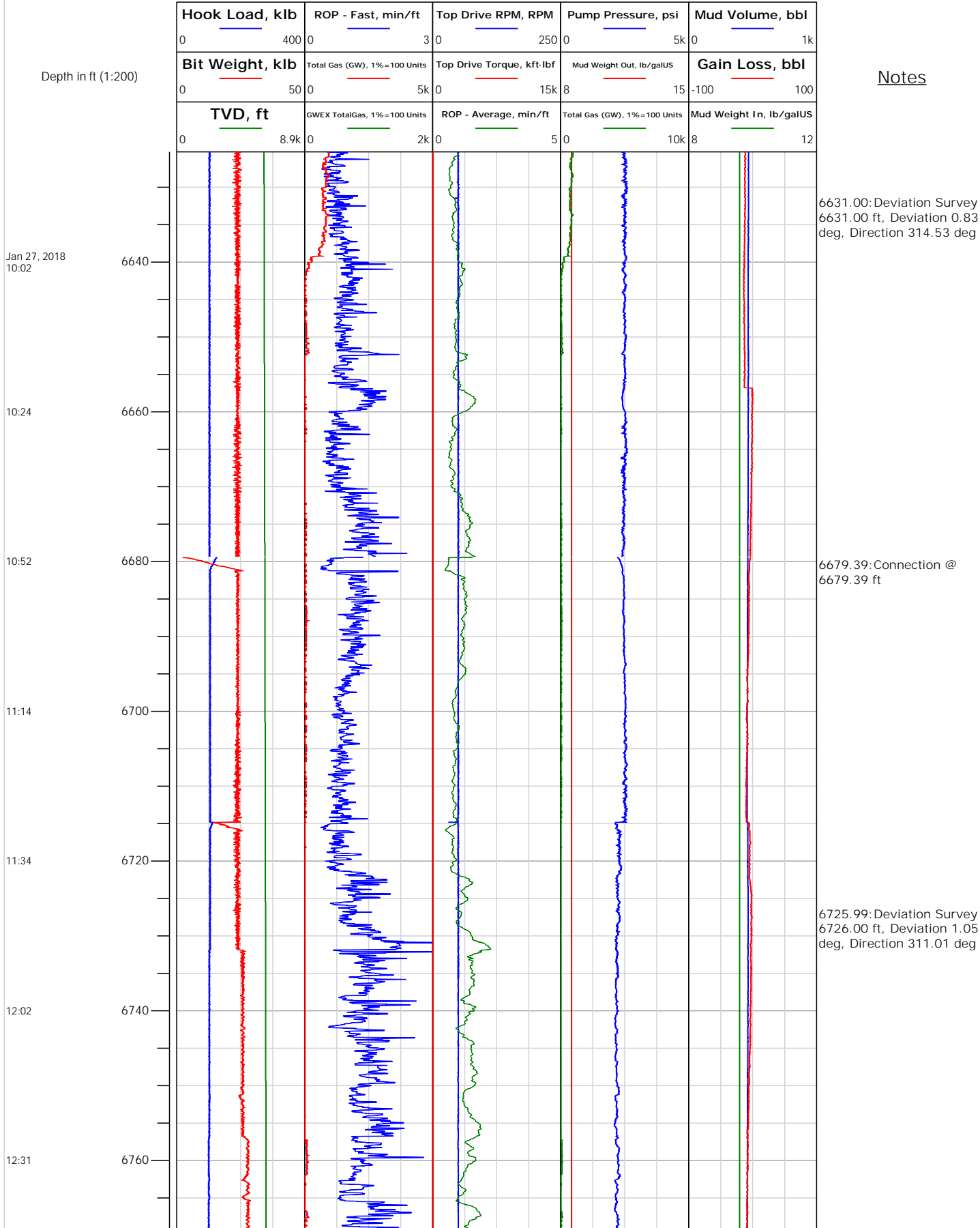
# Electronic Drilling Recorder

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

**Well Name:** Nichols 0994-13-21W  
**Rig:** 290

**Location:** SW/4 Of NE/4

## Notes





# Electronic Drilling Recorder

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

**Well Name:** Nichols 0994-13-21W  
**Rig:** 290

**Location:** SW/4 OF NE/4

## Notes

Depth in ft (1:200)

Jan 27, 2018  
13:05

13:29

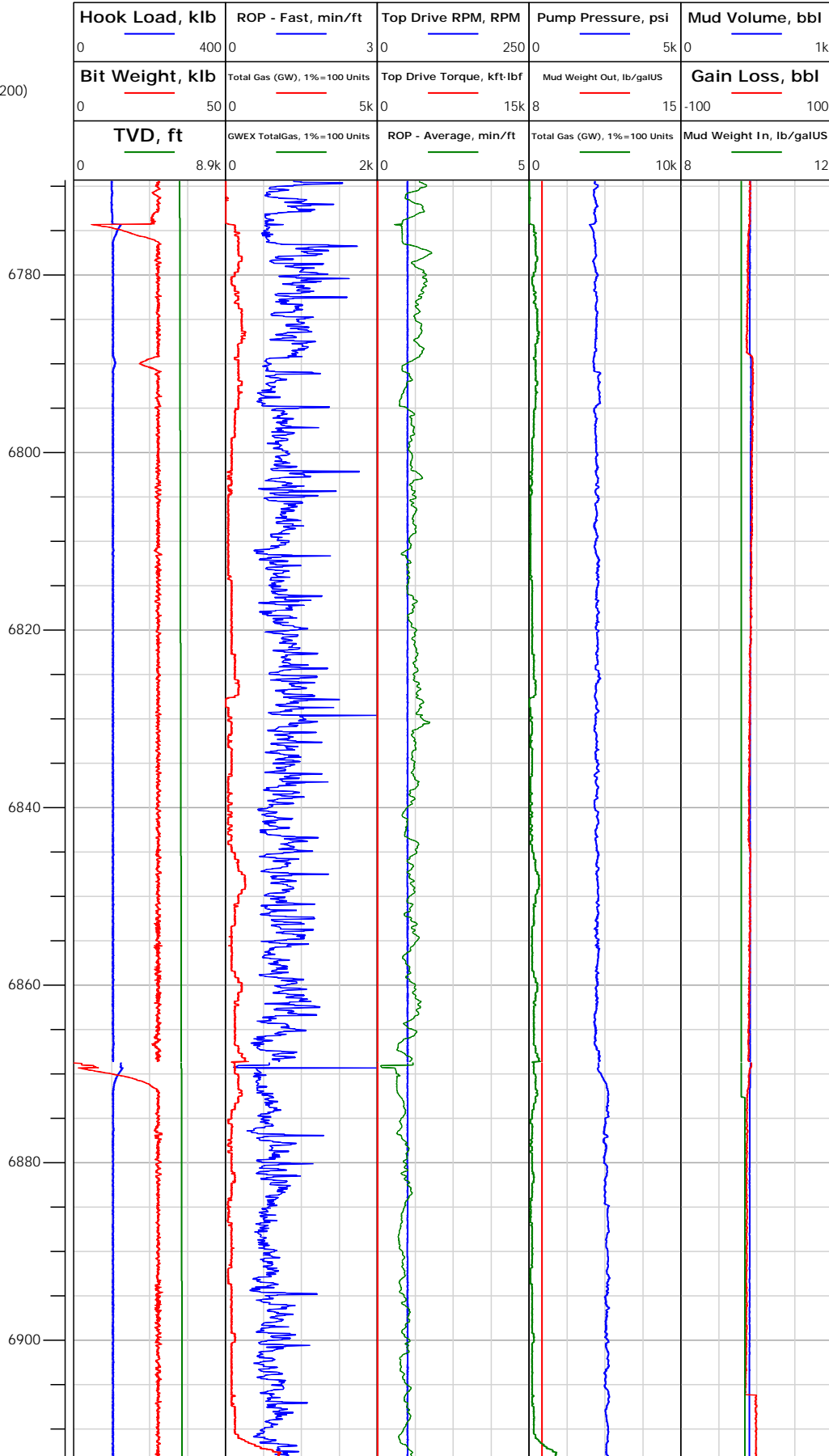
13:52

14:17

14:39

15:05

15:23



6774.17: Connection @  
6774.17 ft

6820.00: Deviation Survey  
6820.00 ft, Deviation 0.88  
deg, Direction 317.43 deg

6868.75: Connection @  
6868.76 ft



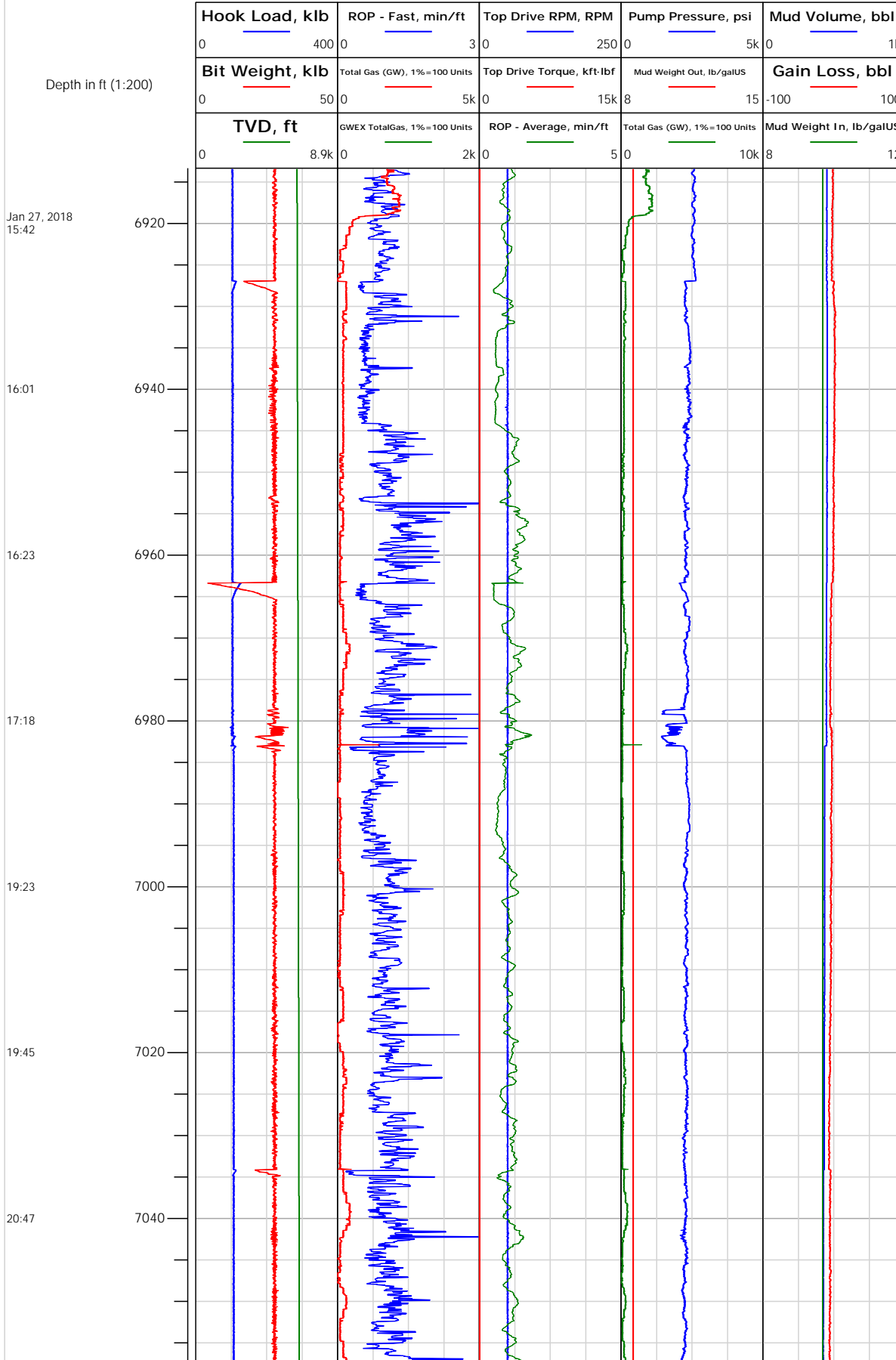
# Electronic Drilling Recorder

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

**Well Name:** Nichols 0994-13-21W  
**Rig:** 290

**Location:** SW/4 OF NE/4

## Notes



6914.99: Deviation Survey  
6915.00 ft, Deviation 1.36 deg, Direction 290.71 deg

6963.33: Connection @  
6963.33 ft

7009.00: Deviation Survey  
7009.00 ft, Deviation 1.6 deg, Direction 283.9 deg



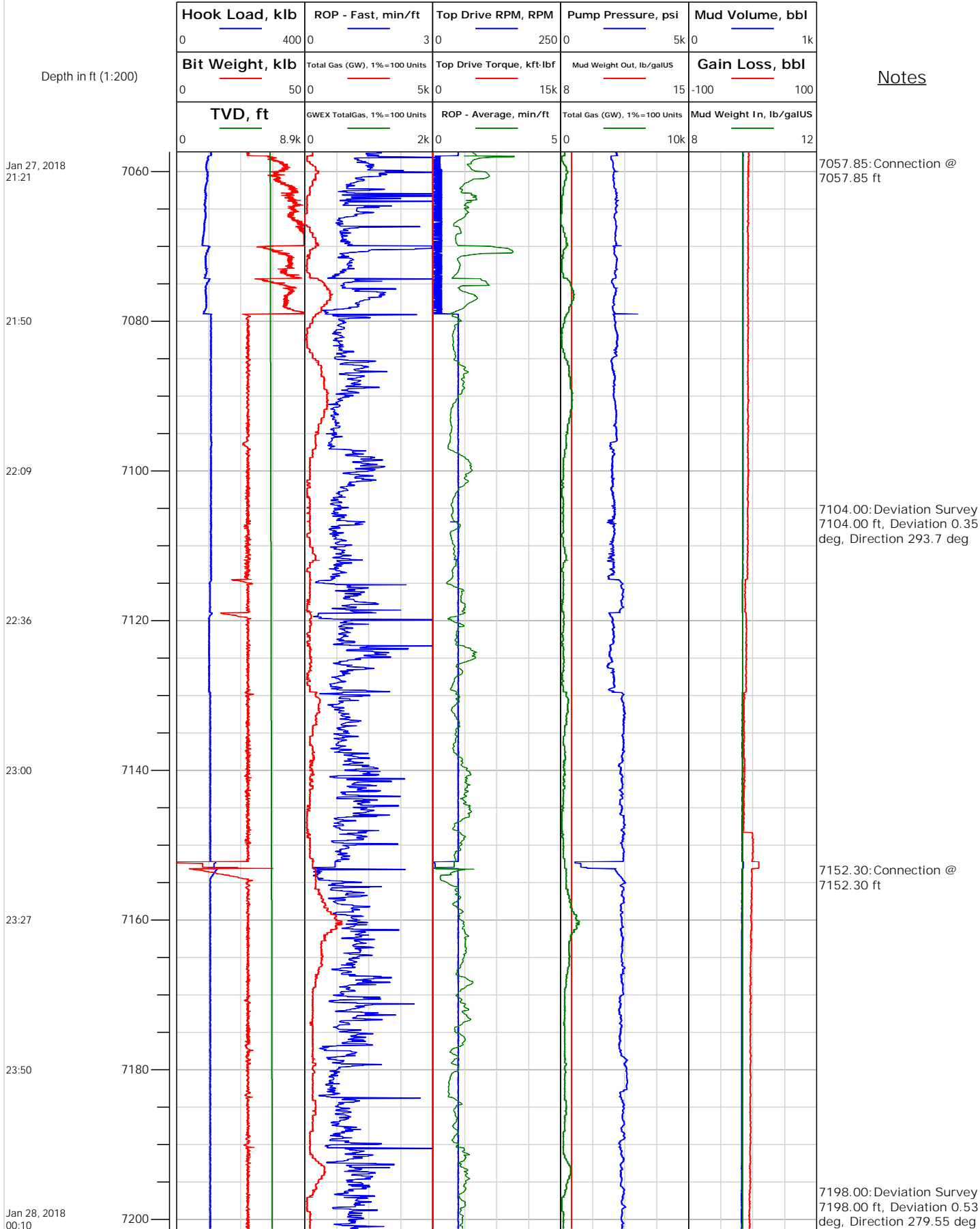
# Electronic Drilling Recorder

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

**Well Name:** Nichols 0994-13-21W  
**Rig:** 290

**Location:** SW/4 Of NE/4

## Notes







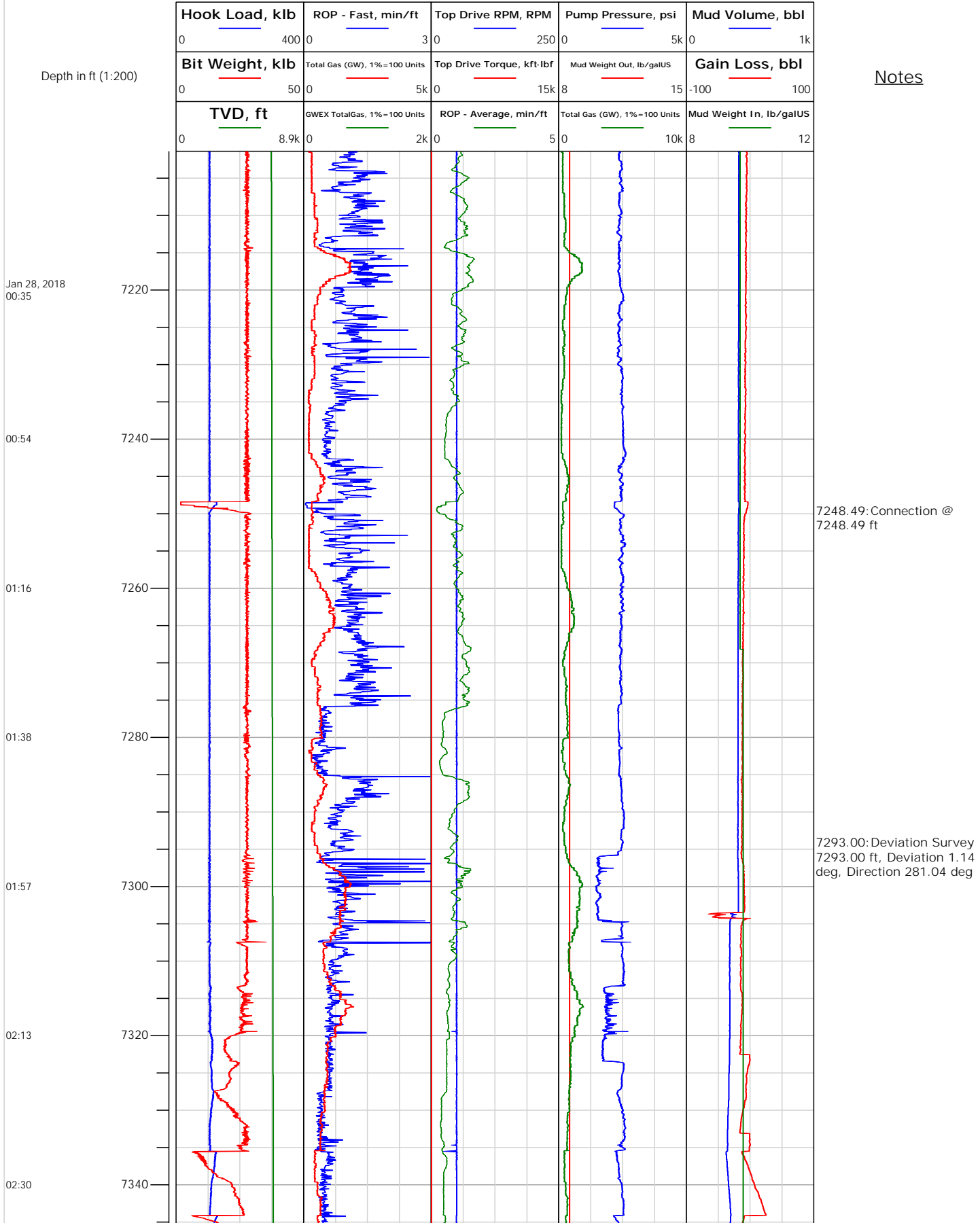
# Electronic Drilling Recorder

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

**Well Name:** Nichols 0994-13-21W  
**Rig:** 290

**Location:** SW/4 OF NE/4

Notes





# Electronic Drilling Recorder

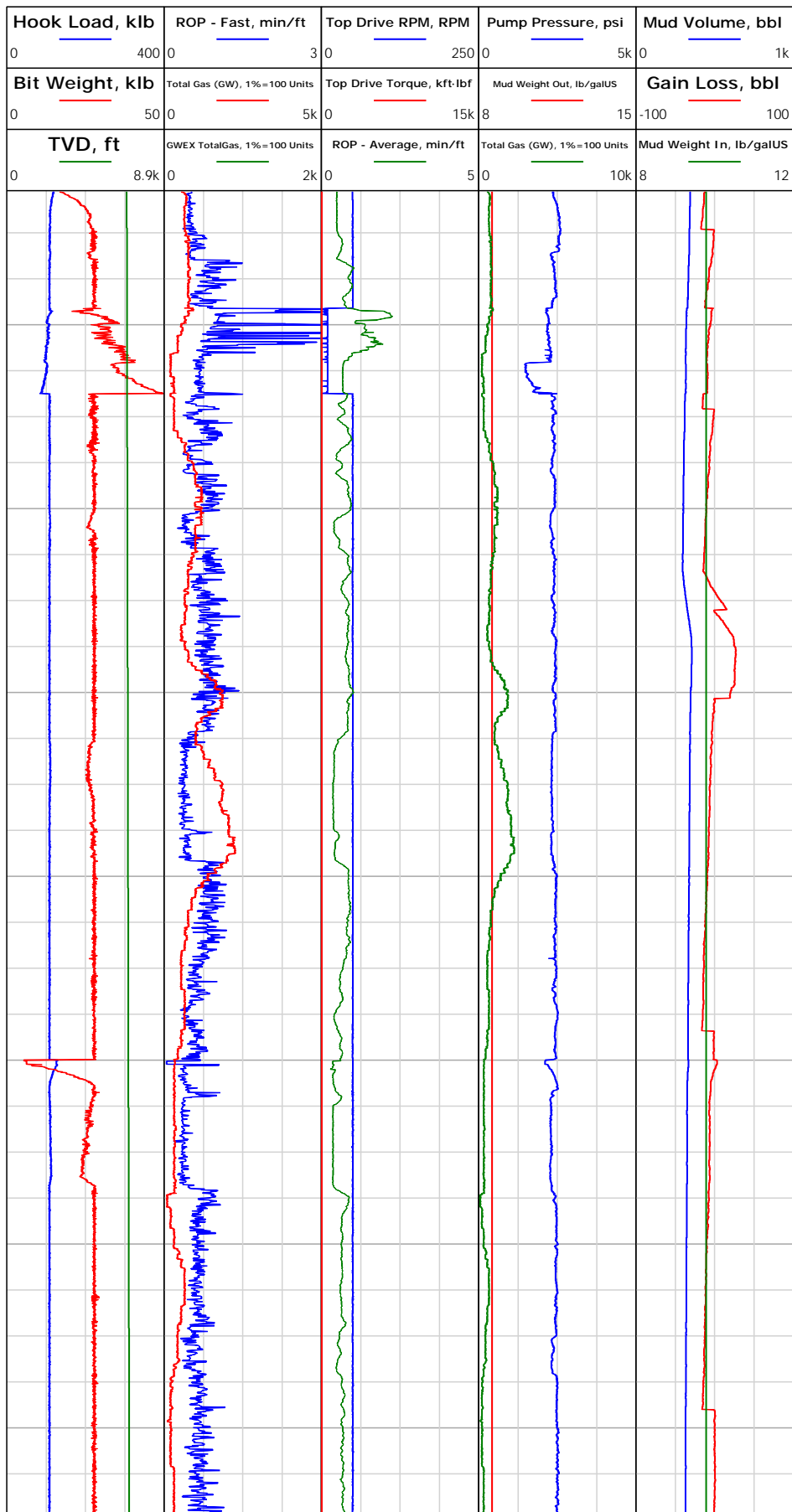
**Operator:** Laramie Energy  
**Contractor:** Helmerich & Payne Drlg Co

**Well Name:** Nichols 0994-13-21W  
**Rig:** 290

**Location:** SW/4 OF NE/4

Notes

Depth in ft (1:200)



7387.00: Deviation Survey  
 7387.00 ft, Deviation 0.4 deg, Direction 279.55 deg

7482.00: Deviation Survey  
 7482.00 ft, Deviation 1.19 deg, Direction 281.66 deg



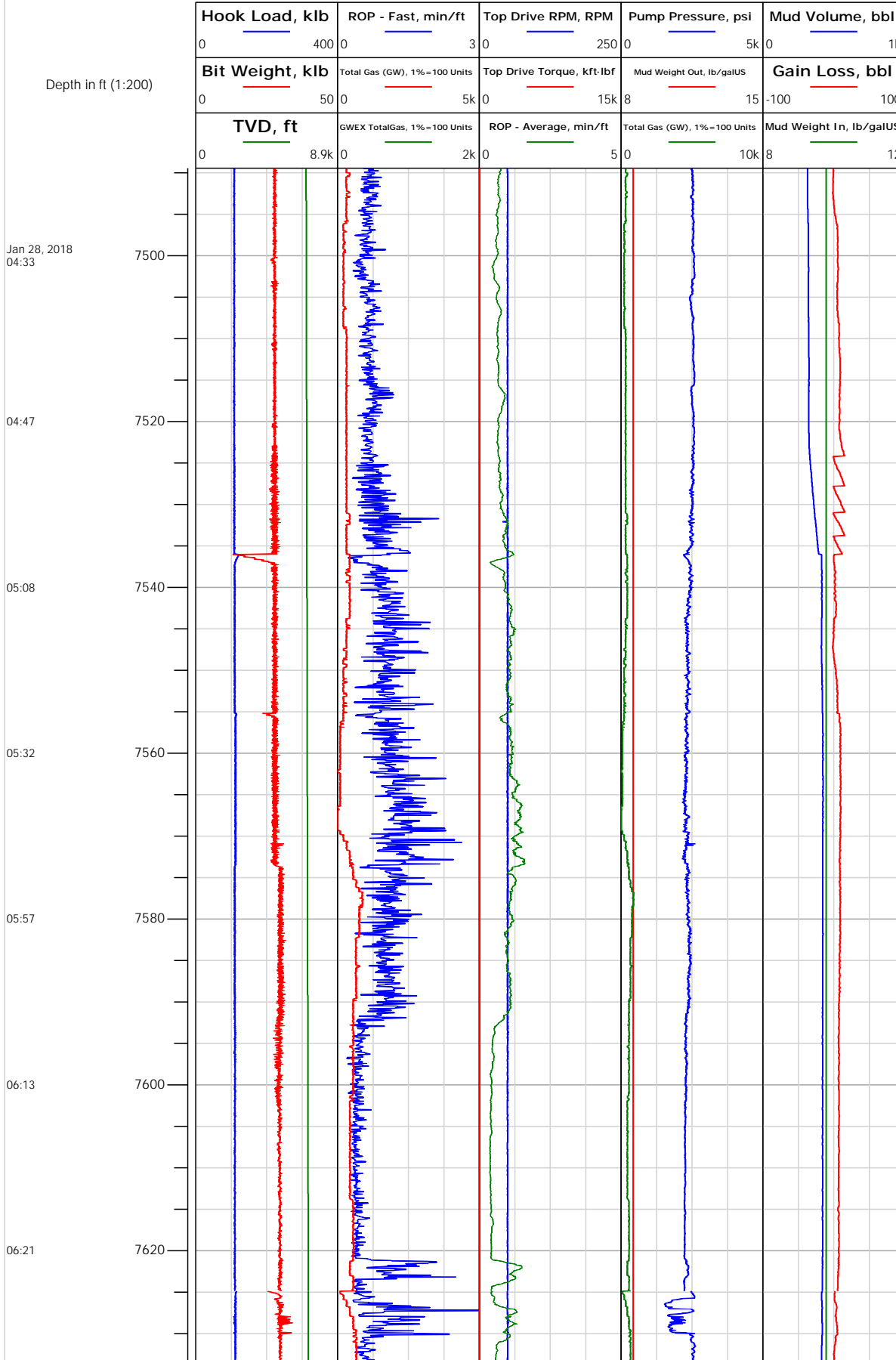
# Electronic Drilling Recorder

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

**Well Name:** Nichols 0994-13-21W  
**Rig:** 290

**Location:** SW/4 Of NE/4

Notes



7576.99: Deviation Survey  
7577.00 ft, Deviation 1.63  
deg, Direction 292.47 deg



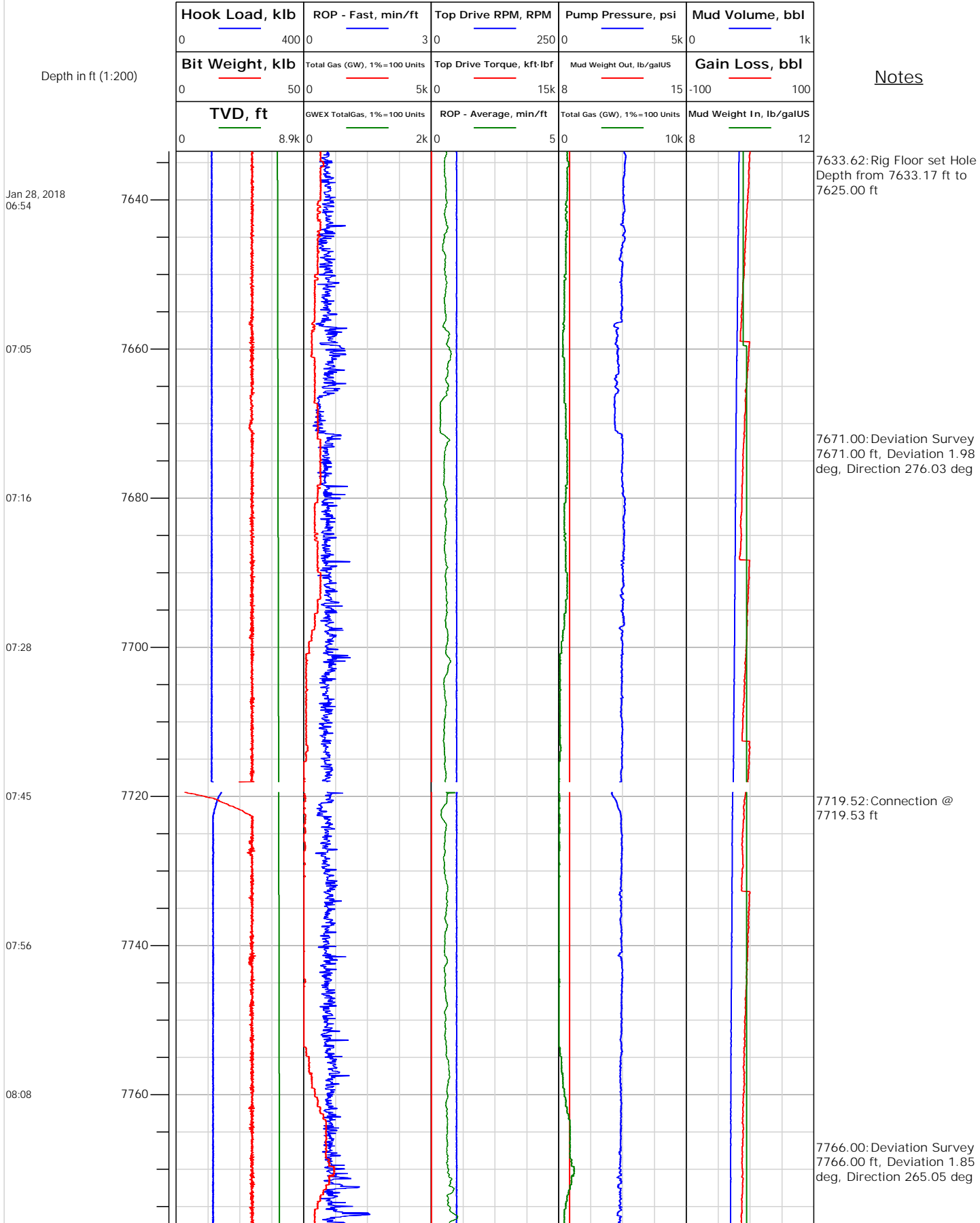
# Electronic Drilling Recorder

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

**Well Name:** Nichols 0994-13-21W  
**Rig:** 290

**Location:** SW/4 OF NE/4

## Notes





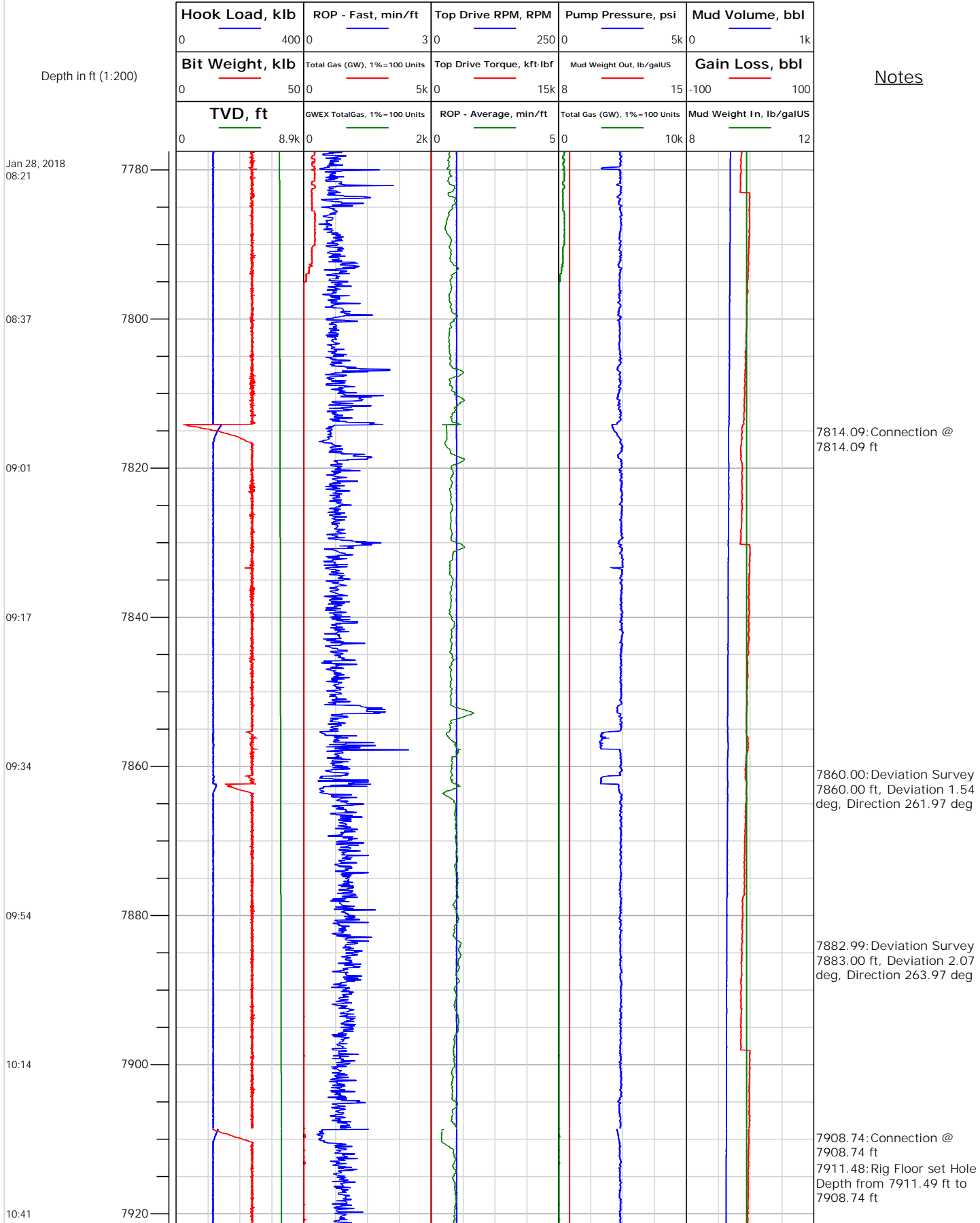
# Electronic Drilling Recorder

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

**Well Name:** Nichols 0994-13-21W  
**Rig:** 290

**Location:** SW/4 OF NE/4

## Notes





# Electronic Drilling Recorder

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

**Well Name:** Nichols 0994-13-21W  
**Rig:** 290

**Location:** SW/4 Of NE/4

Notes

Depth in ft (1:200)

Jan 28, 2018  
 20:22

7940

