

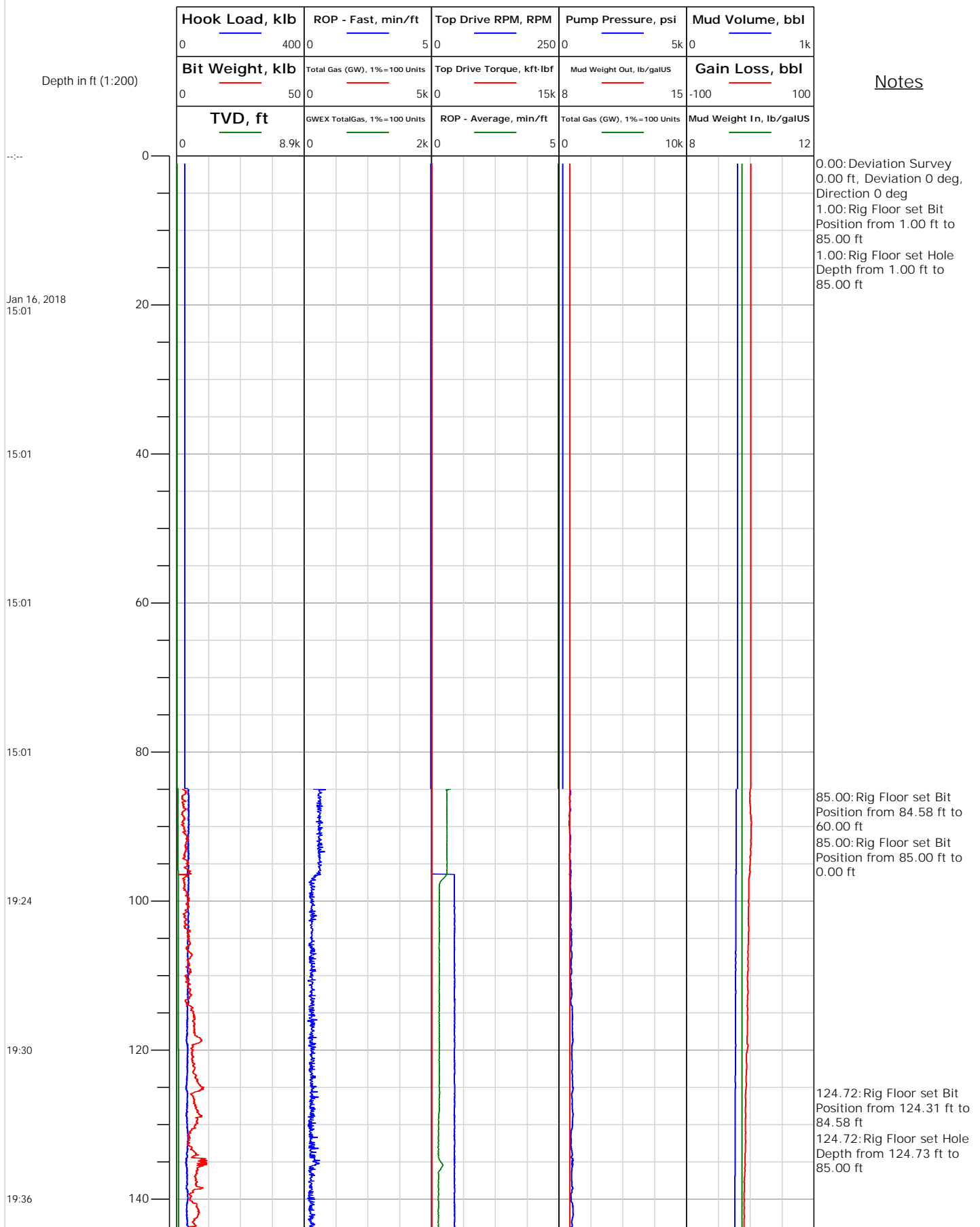


Electronic Drilling Recorder

Operator: Laramie Energy
Contractor: Helmerich & Payne Drlg Co

Well Name: Nichols 24-01E
Rig: 290

Location:





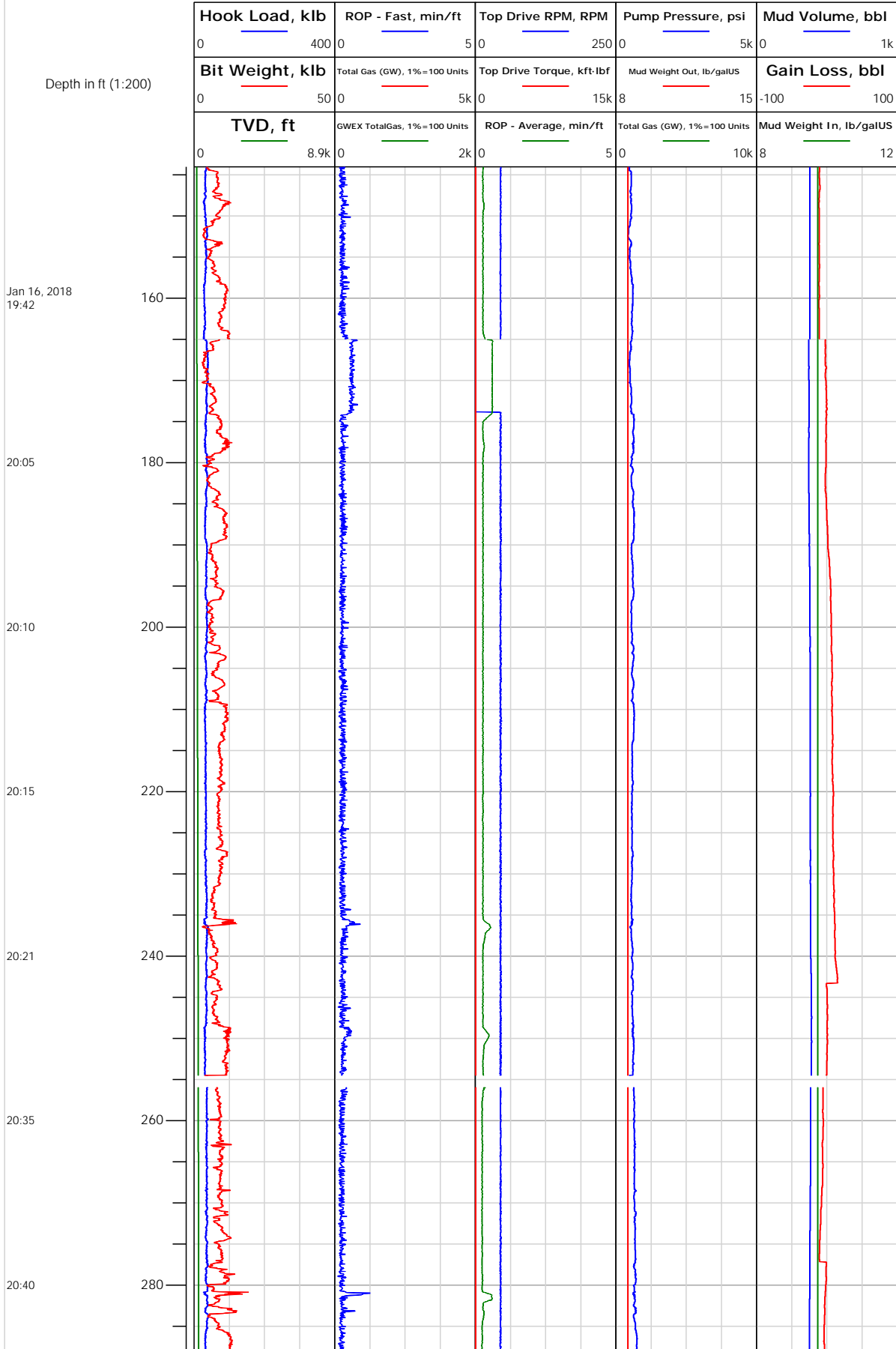
Electronic Drilling Recorder

Operator: Laramie Energy
Contractor: Helmerich & Payne Drlg Co

Well Name: Nichols 24-01E
Rig: 290

Location:

Notes



172.04: Connection @
 172.04 ft
 175.92: Rig Floor set Hole
 Depth from 175.84 ft to
 165.00 ft

256.10: Connection @
 256.11 ft
 258.20: Rig Floor set Hole
 Depth from 258.12 ft to
 256.00 ft



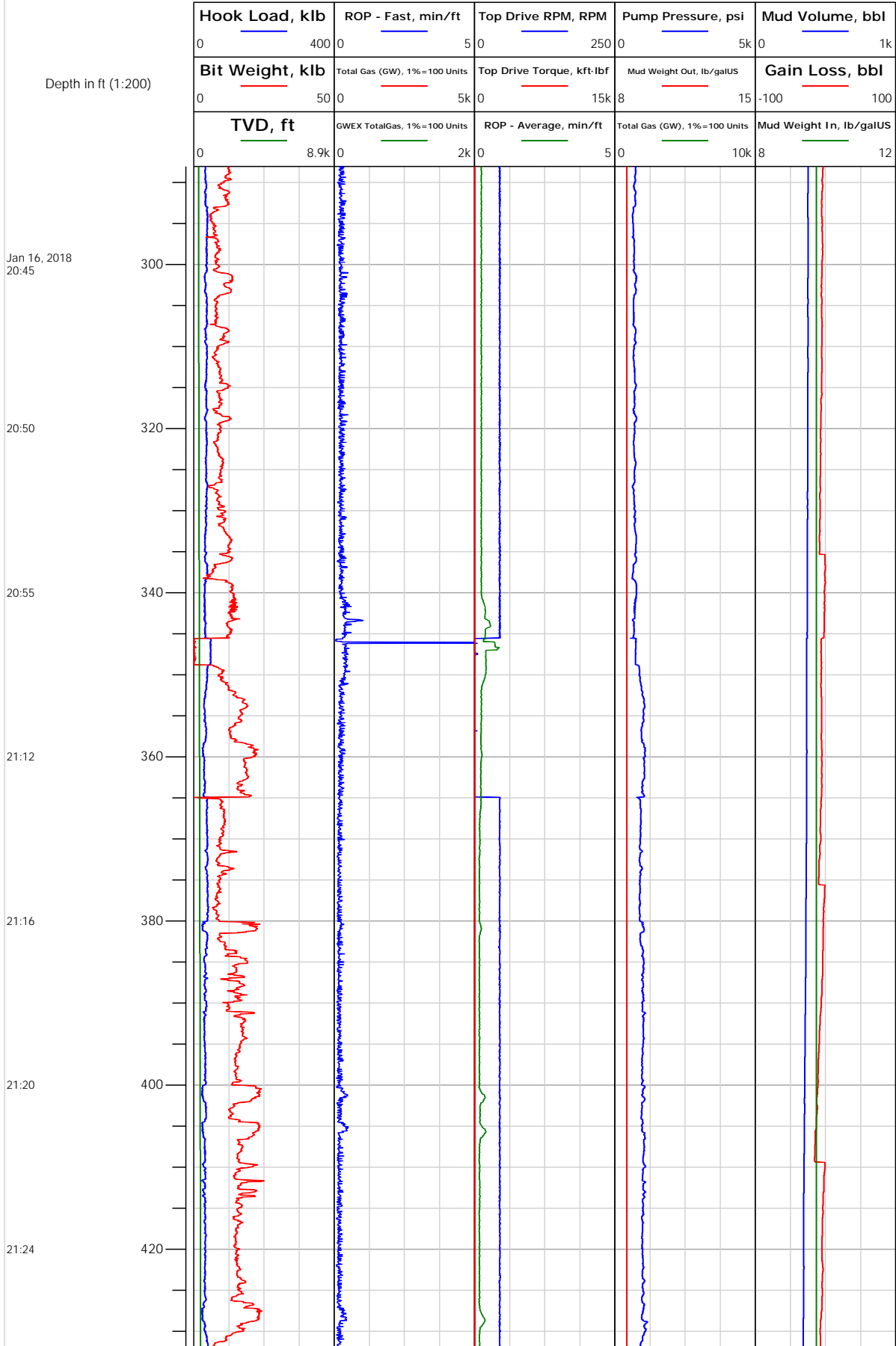
Electronic Drilling Recorder

Operator: Laramie Energy
Contractor: Helmerich & Payne Drlg Co

Well Name: Nichols 24-01E
Rig: 290

Location:

Notes





Electronic Drilling Recorder

Operator: Laramie Energy
Contractor: Helmerich & Payne Drlg Co

Well Name: Nichols 24-01E
Rig: 290

Location:

Notes

Depth in ft (1:200)

Jan 16, 2018
21:32

21:37

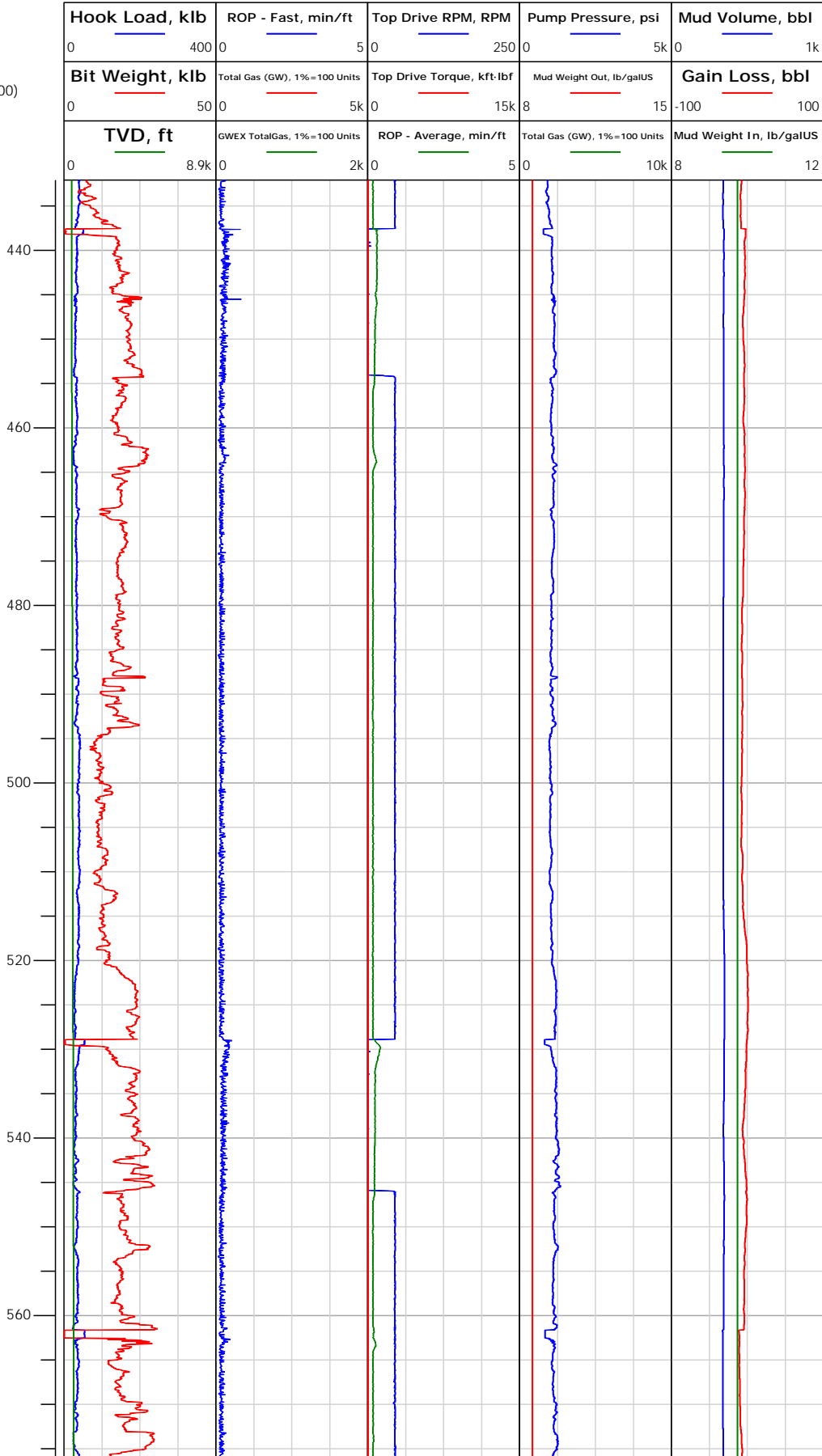
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21:44

21:48

21:56

22:00





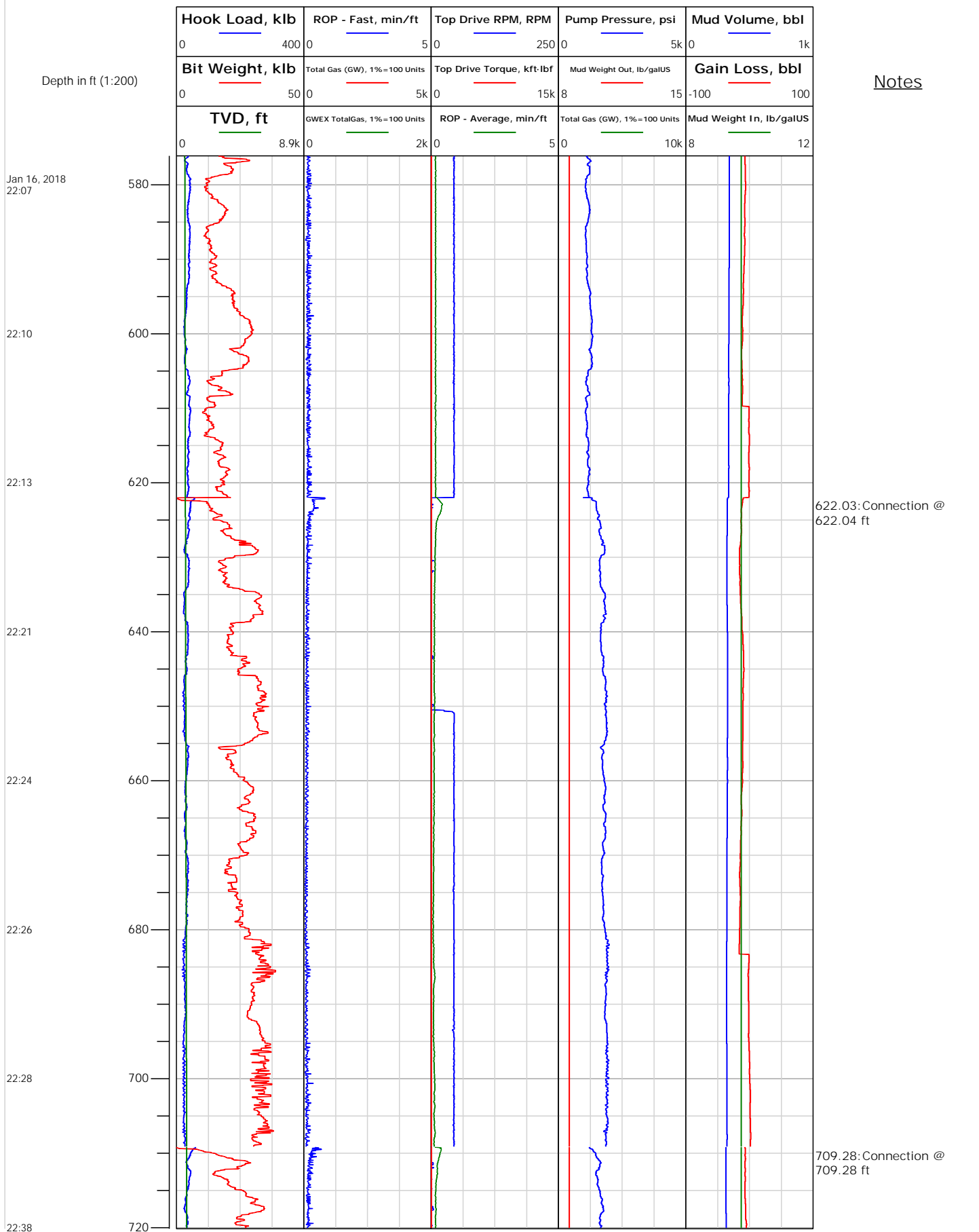
Electronic Drilling Recorder

Operator: Laramie Energy
Contractor: Helmerich & Payne Drlg Co

Well Name: Nichols 24-01E
Rig: 290

Location:

Notes





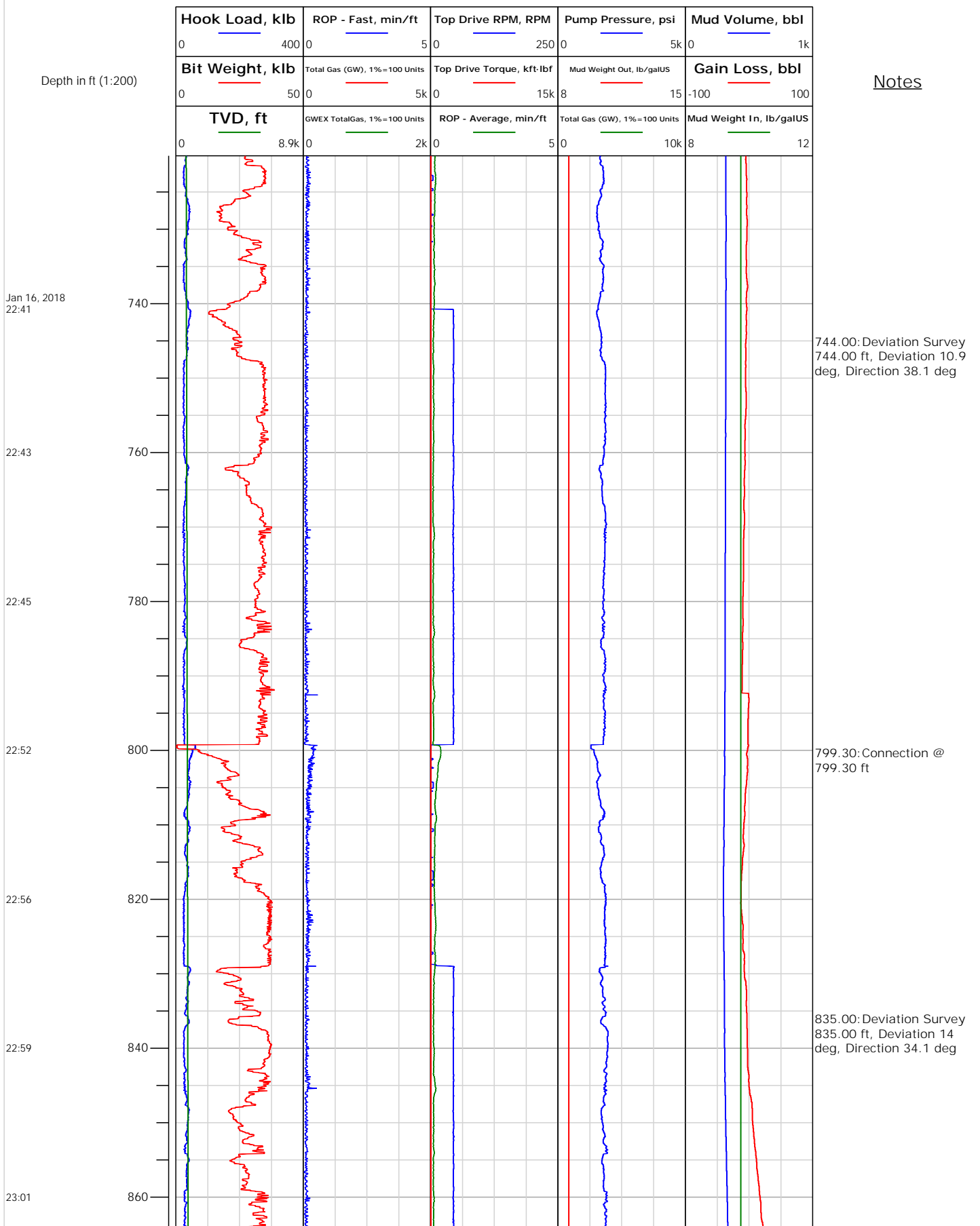
Electronic Drilling Recorder

Operator: Laramie Energy
Contractor: Helmerich & Payne Drlg Co

Well Name: Nichols 24-01E
Rig: 290

Location:

Notes





Electronic Drilling Recorder

Operator: Laramie Energy
Contractor: Helmerich & Payne Drlg Co

Well Name: Nichols 24-01E
Rig: 290

Location:

Notes

Depth in ft (1:200)

Jan 16, 2018
23:03

23:13

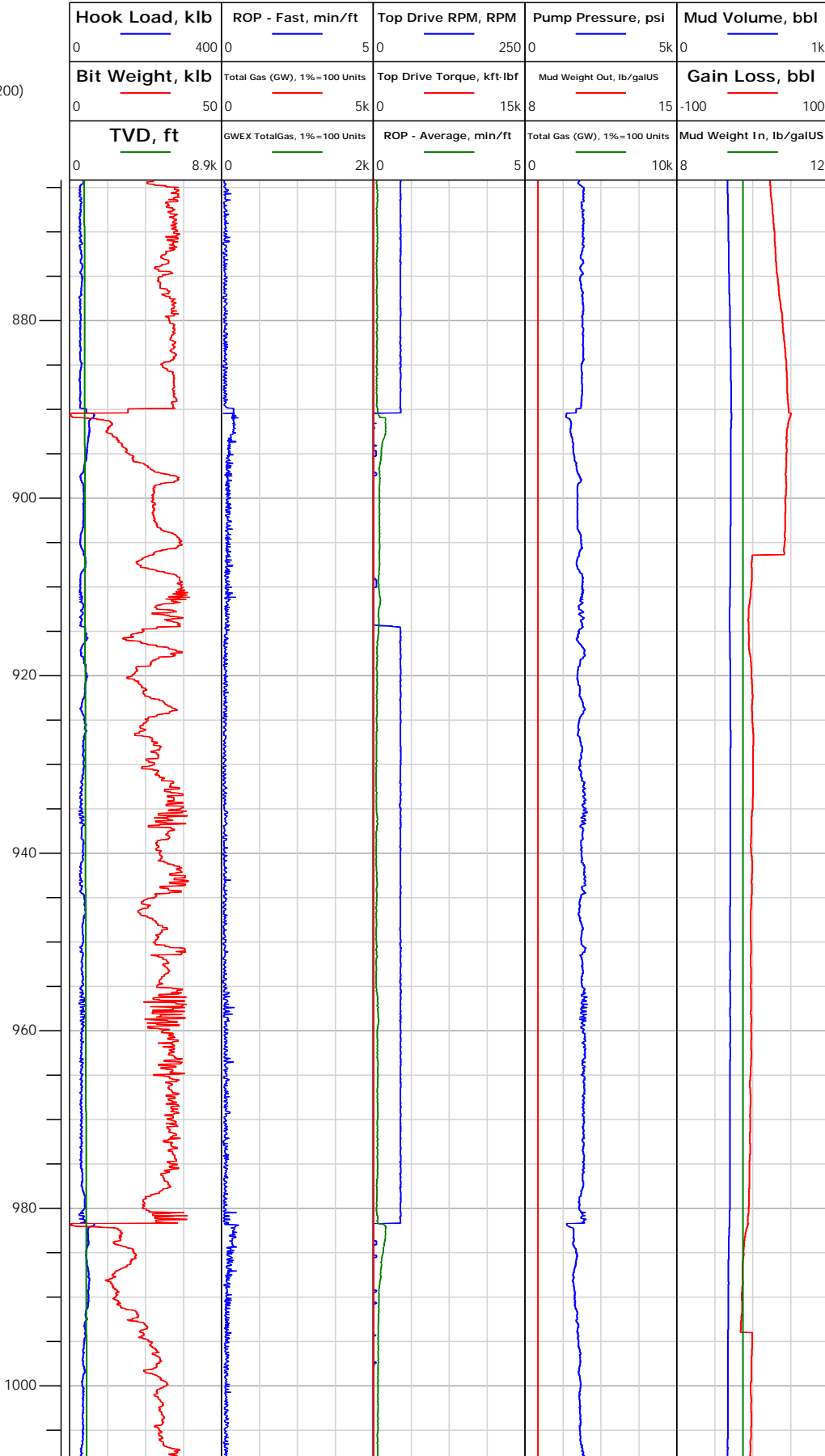
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23:19

23:21

23:23

23:31





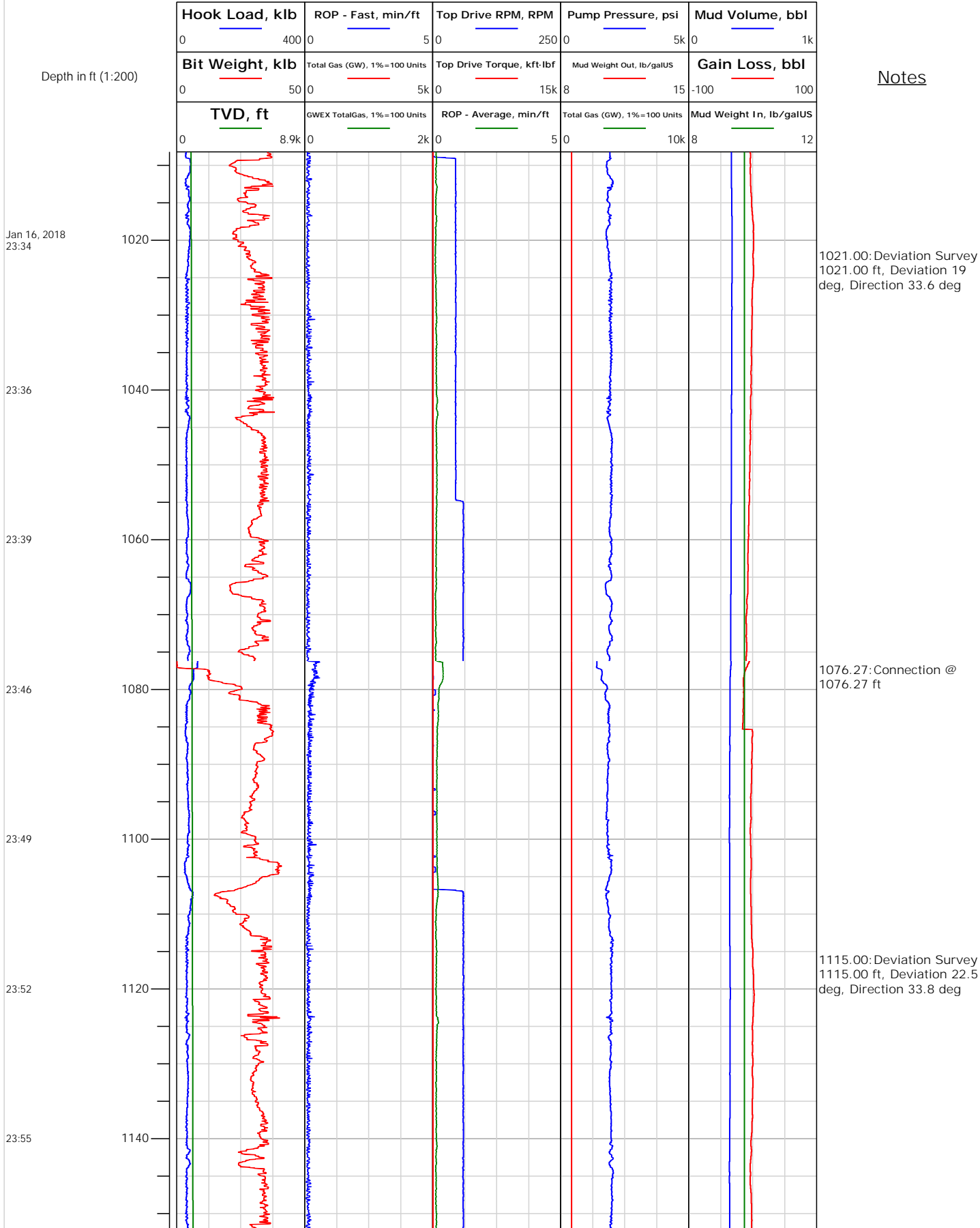
Electronic Drilling Recorder

Operator: Laramie Energy
Contractor: Helmerich & Payne Drlg Co

Well Name: Nichols 24-01E
Rig: 290

Location:

Notes





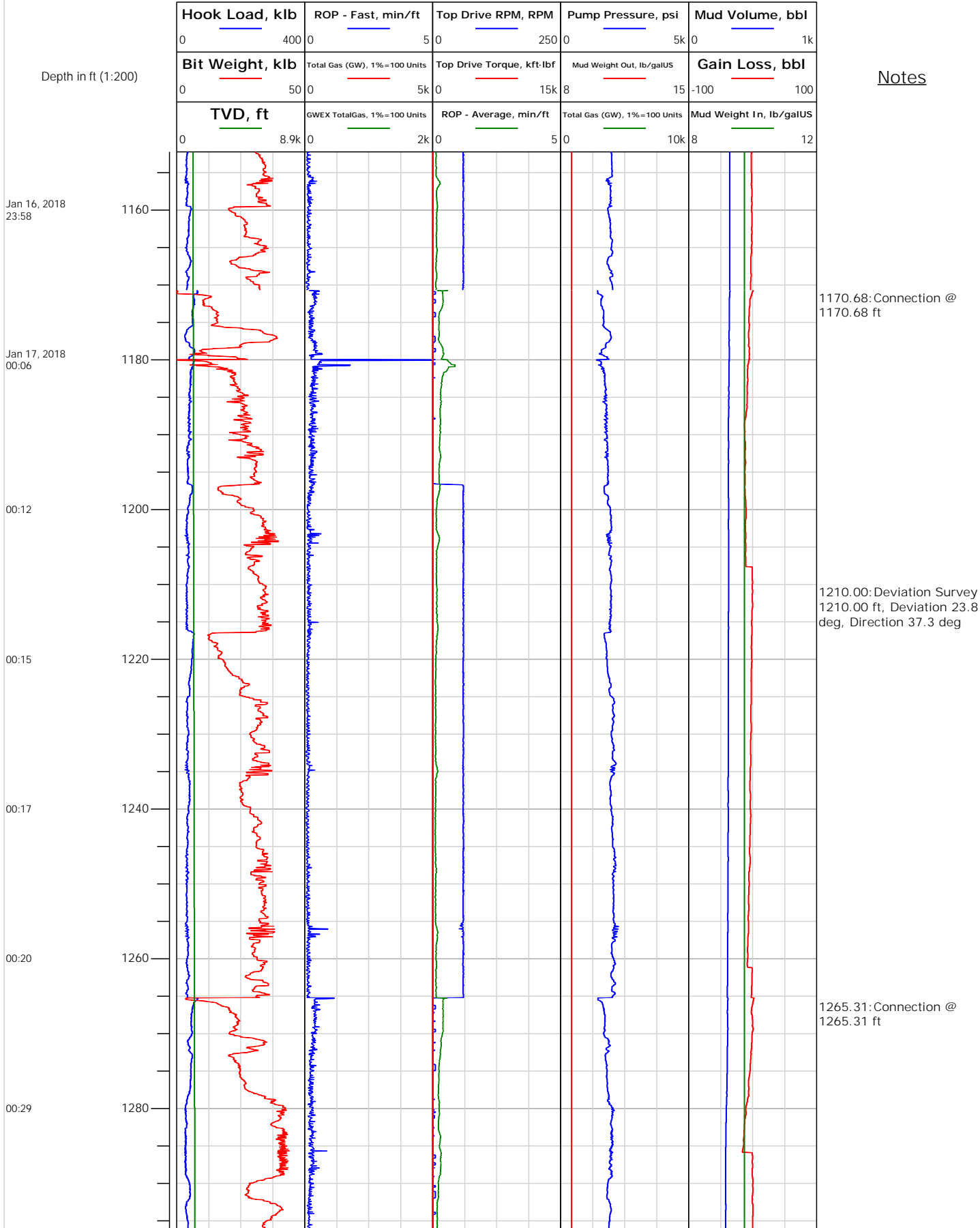
Electronic Drilling Recorder

Operator: Laramie Energy
Contractor: Helmerich & Payne Drlg Co

Well Name: Nichols 24-01E
Rig: 290

Location:

Notes



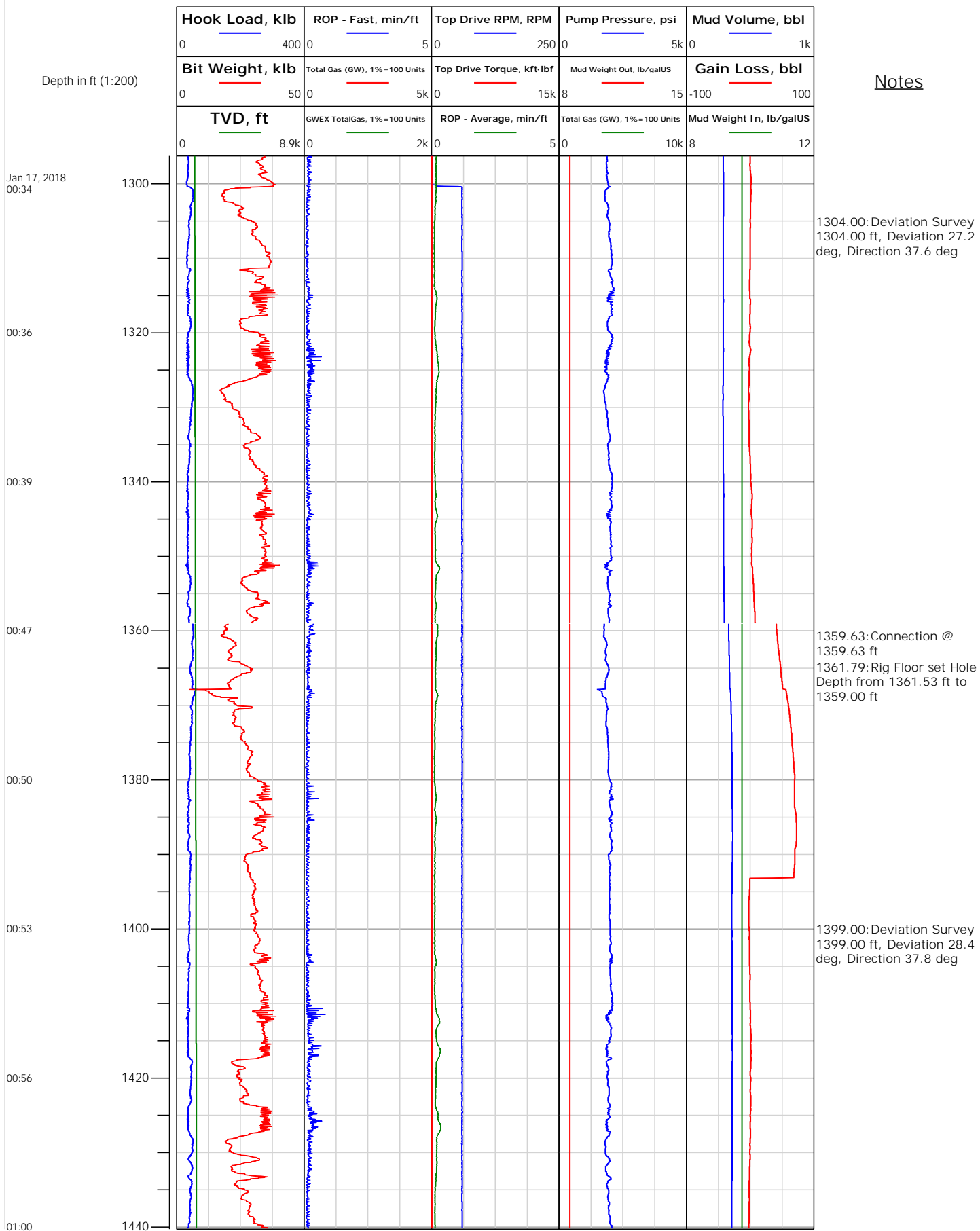


Electronic Drilling Recorder

Operator: Laramie Energy
Contractor: Helmerich & Payne Drlg Co

Well Name: Nichols 24-01E
Rig: 290

Location:





Electronic Drilling Recorder

Operator: Laramie Energy
Contractor: Helmerich & Payne Drlg Co

Well Name: Nichols 24-01E
Rig: 290

Location:

Notes

Depth in ft (1:200)

Jan 17, 2018
01:04

01:08

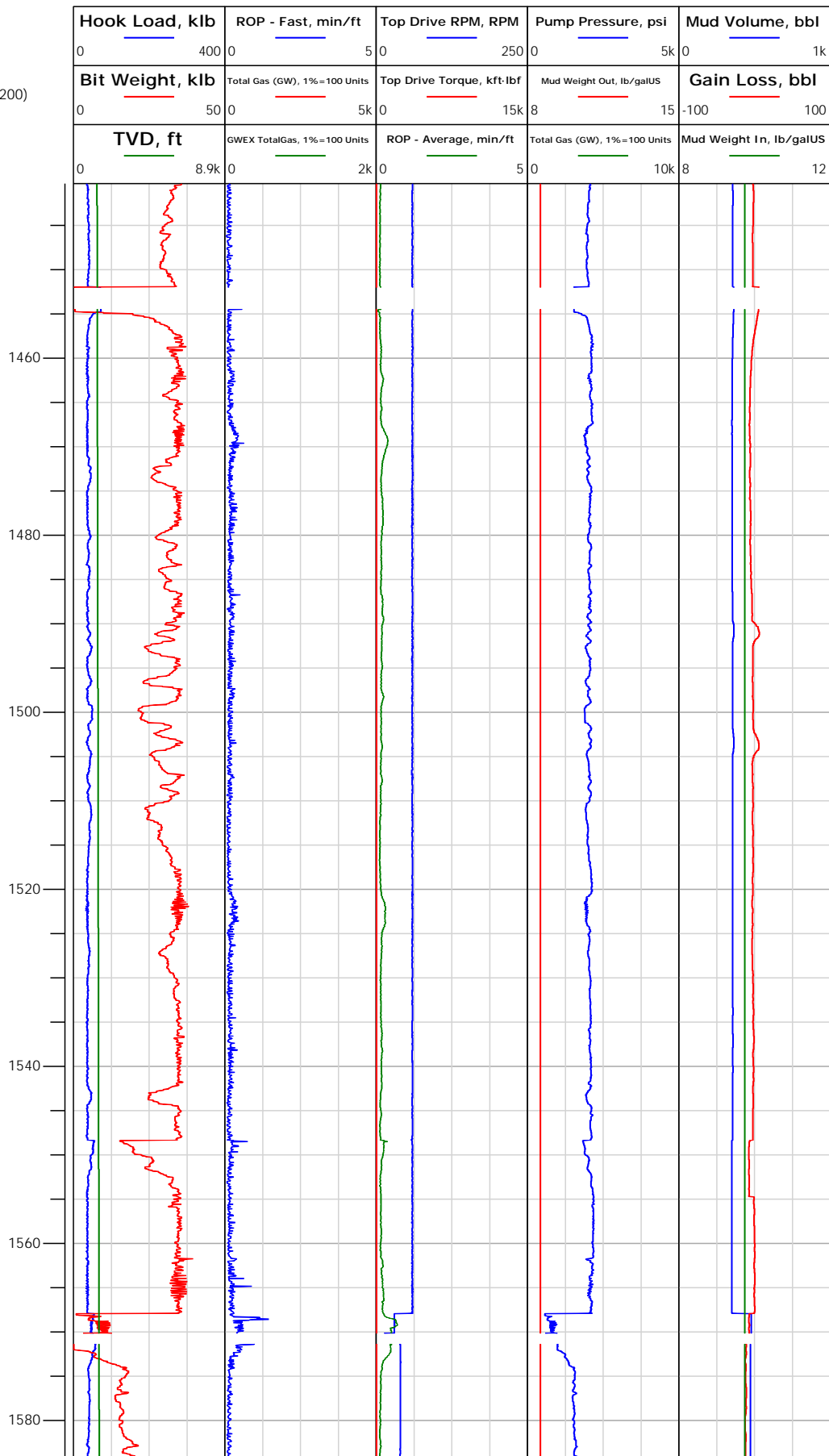
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01:15

01:19

01:25

15:35





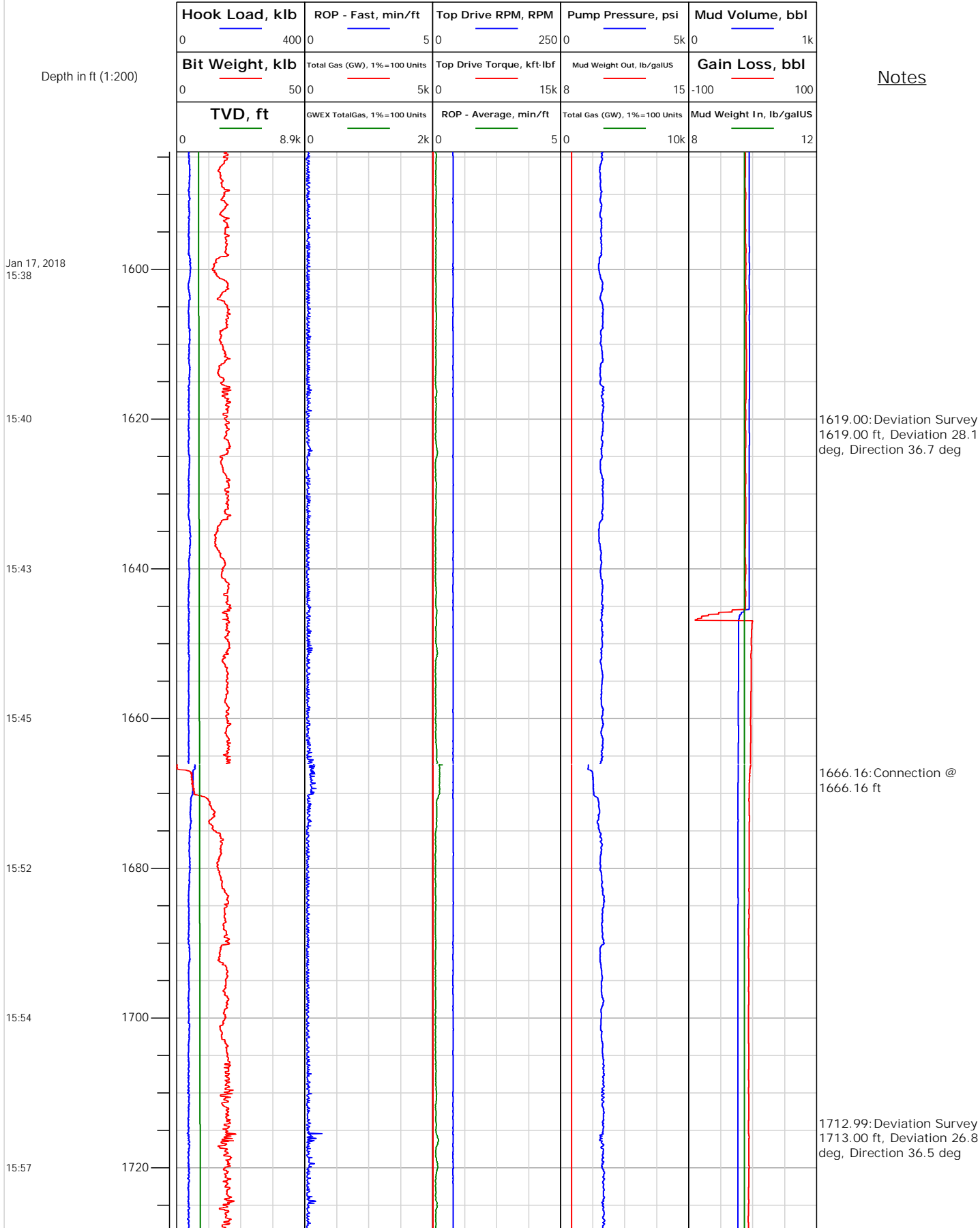
Electronic Drilling Recorder

Operator: Laramie Energy
Contractor: Helmerich & Payne Drlg Co

Well Name: Nichols 24-01E
Rig: 290

Location:

Notes





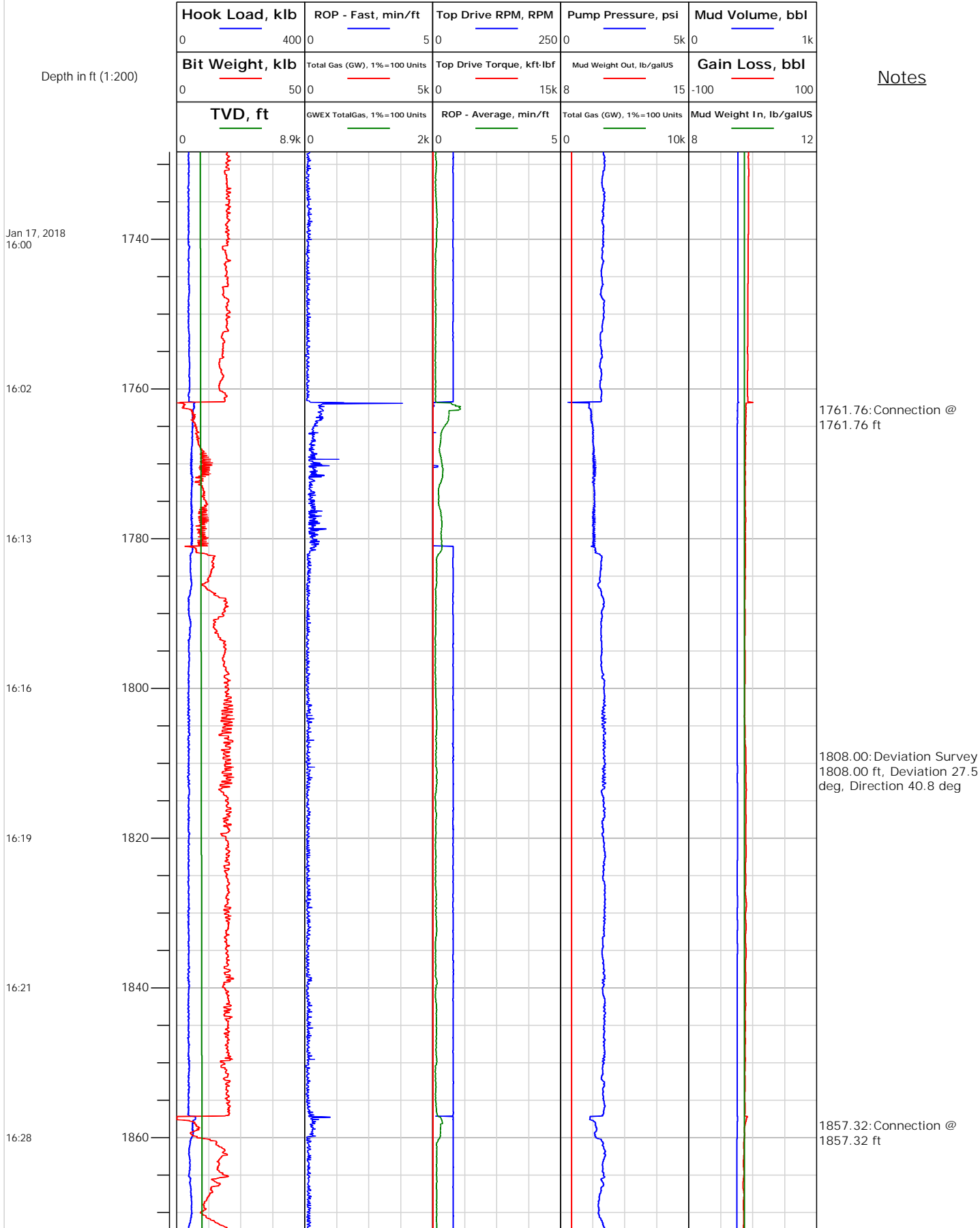
Electronic Drilling Recorder

Operator: Laramie Energy
Contractor: Helmerich & Payne Drlg Co

Well Name: Nichols 24-01E
Rig: 290

Location:

Notes





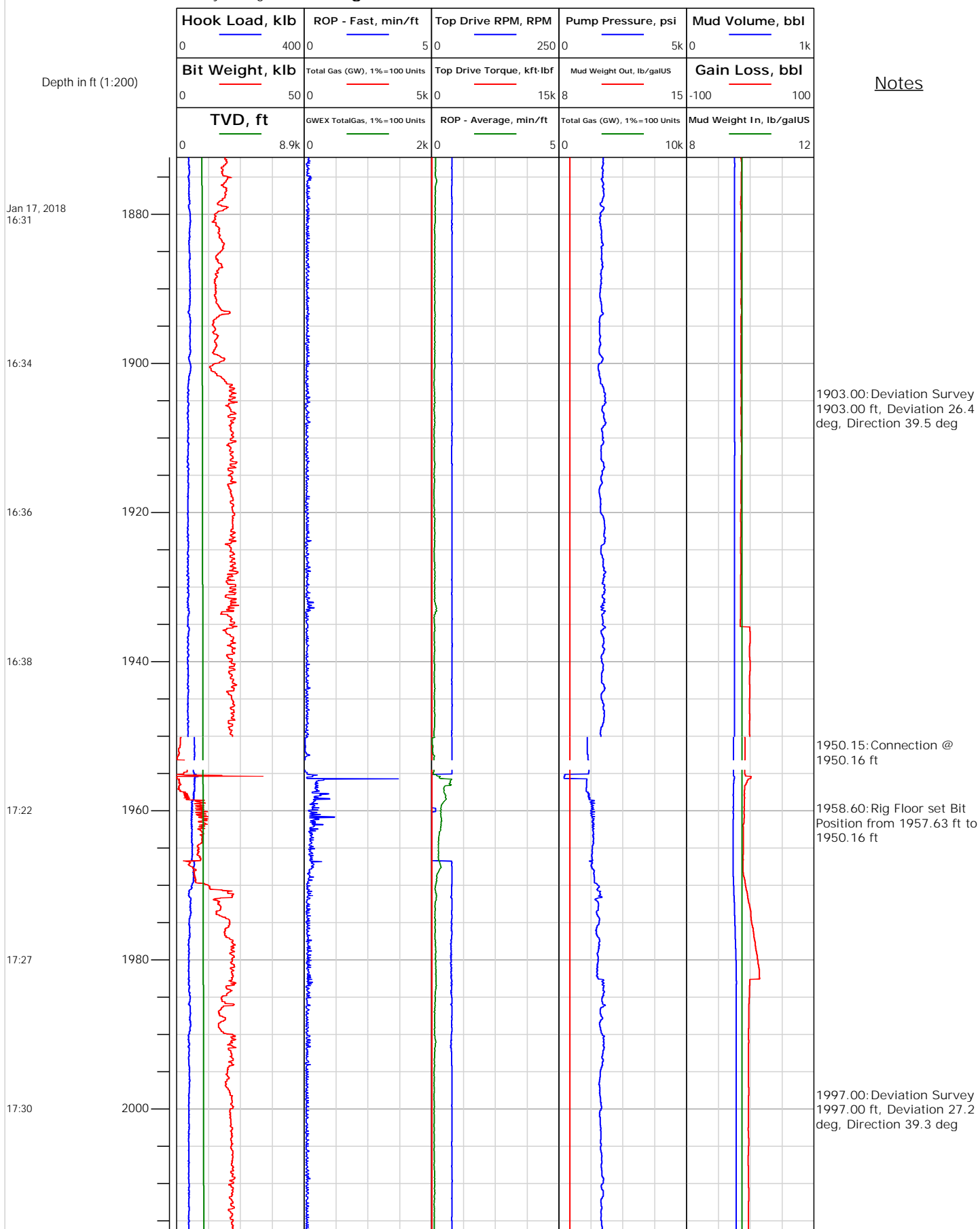
Electronic Drilling Recorder

Operator: Laramie Energy
Contractor: Helmerich & Payne Drlg Co

Well Name: Nichols 24-01E
Rig: 290

Location:

Notes





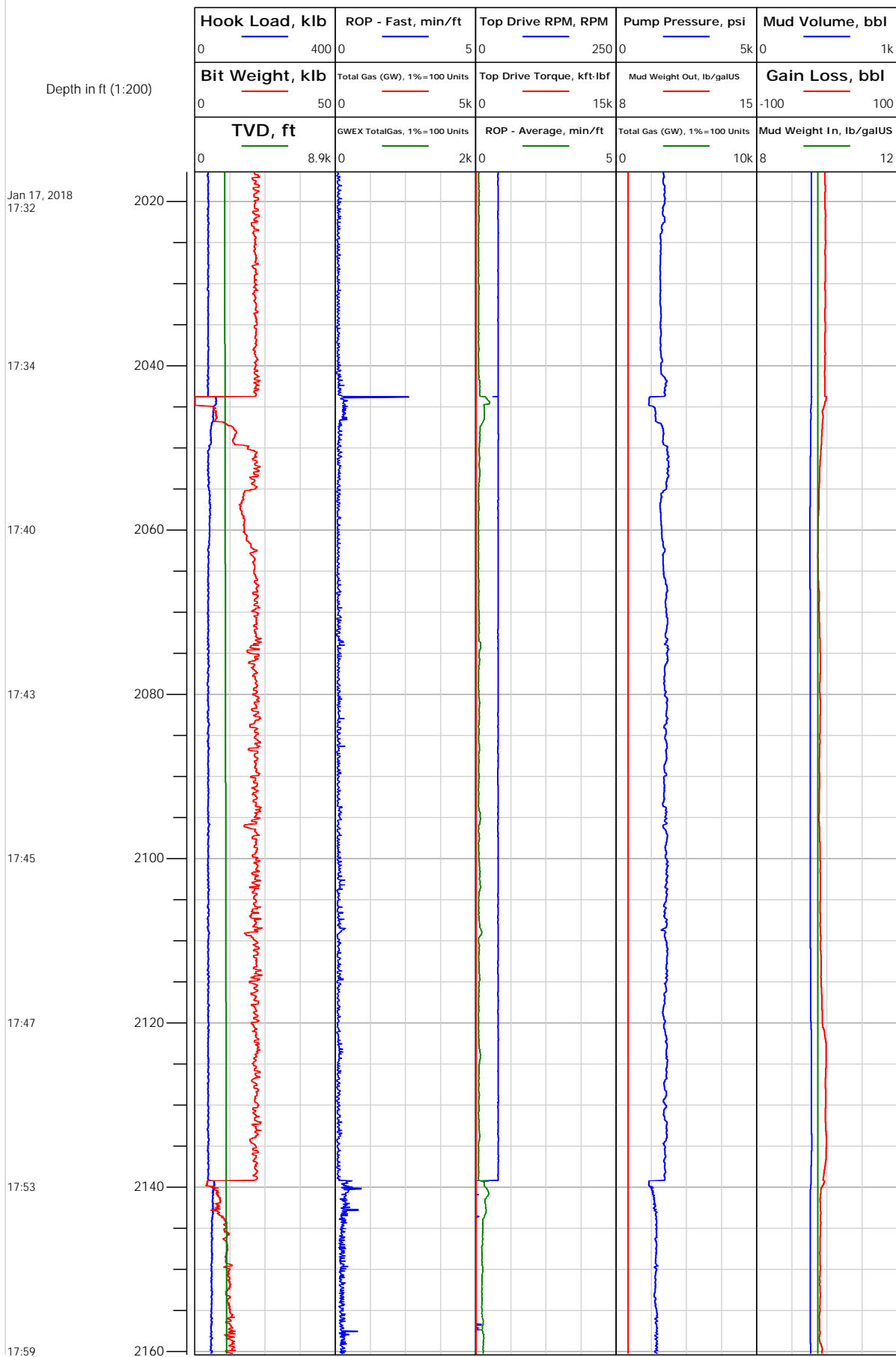
Electronic Drilling Recorder

Operator: Laramie Energy
Contractor: Helmerich & Payne Drlg Co

Well Name: Nichols 24-01E
Rig: 290

Location:

Notes





Electronic Drilling Recorder

Operator: Laramie Energy
Contractor: Helmerich & Payne Drlg Co

Well Name: Nichols 24-01E
Rig: 290

Location:

Notes

Depth in ft (1:200)

Jan 17, 2018
18:03

18:05

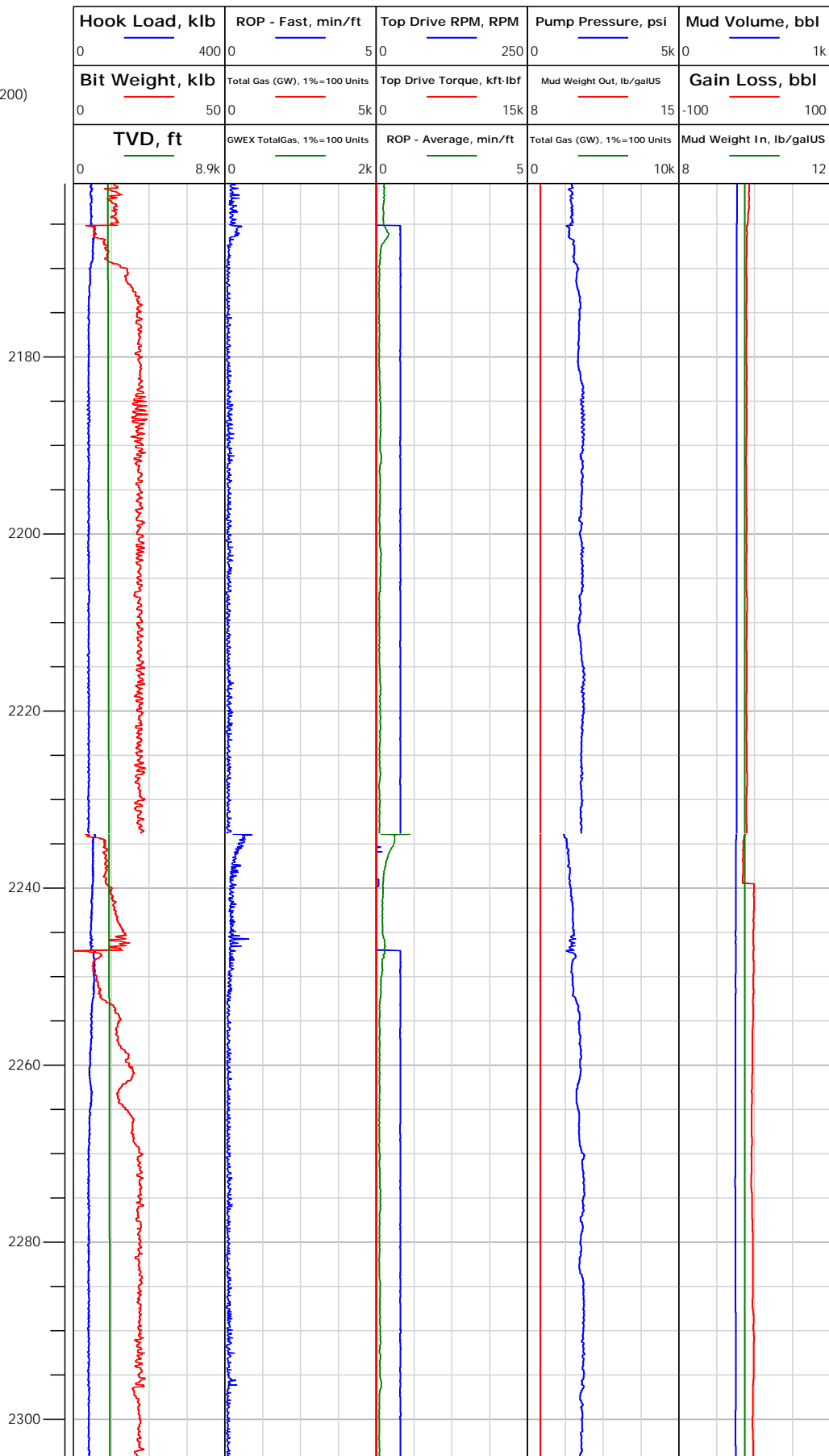
18:07

18:15

18:18

18:21

18:23



2186.00: Deviation Survey
2186.00 ft, Deviation 27.4
deg, Direction 38.4 deg

2233.94: Connection @
2233.94 ft

2281.00: Deviation Survey
2281.00 ft, Deviation 28.6
deg, Direction 38 deg



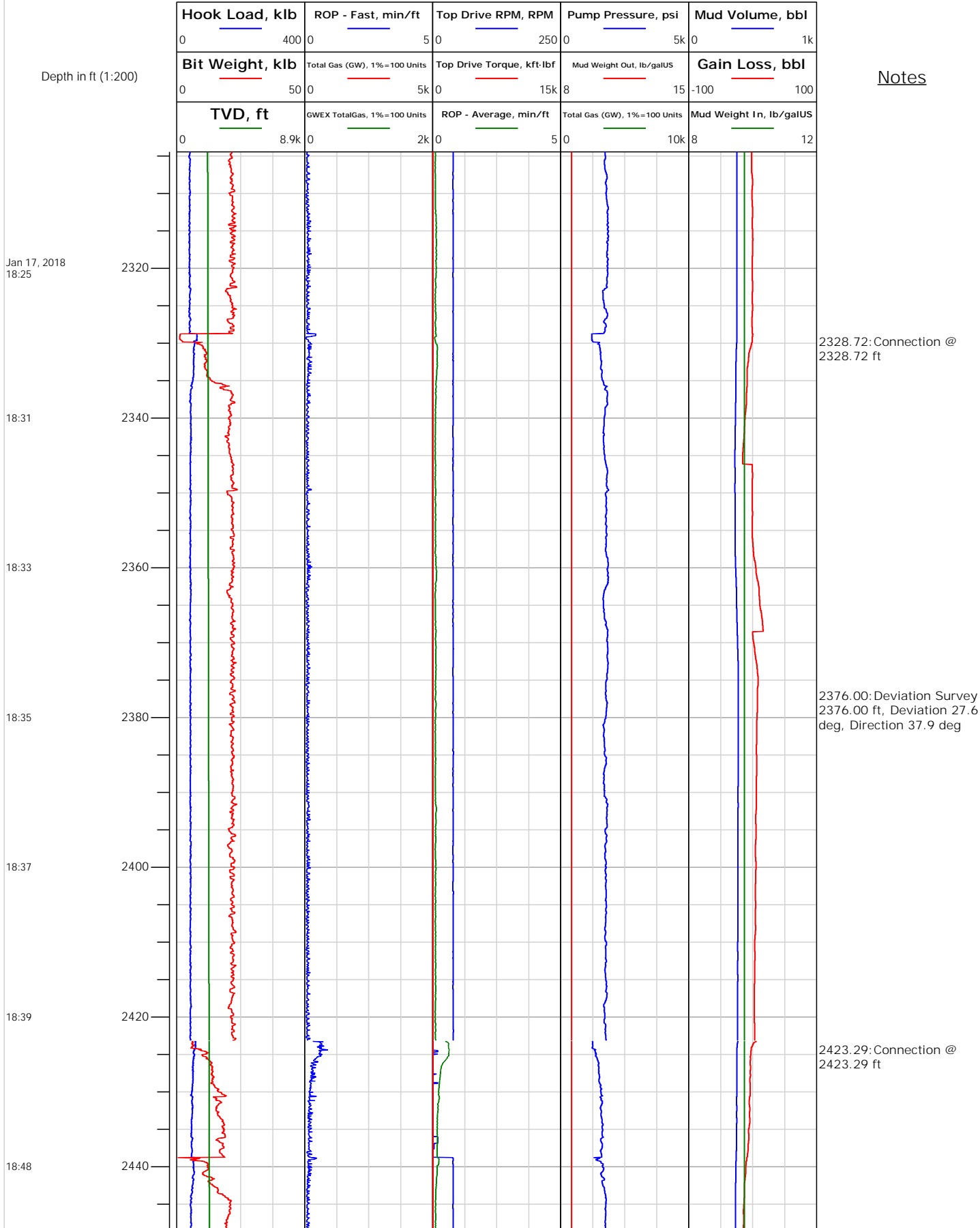
Electronic Drilling Recorder

Operator: Laramie Energy
Contractor: Helmerich & Payne Drlg Co

Well Name: Nichols 24-01E
Rig: 290

Location:

Notes





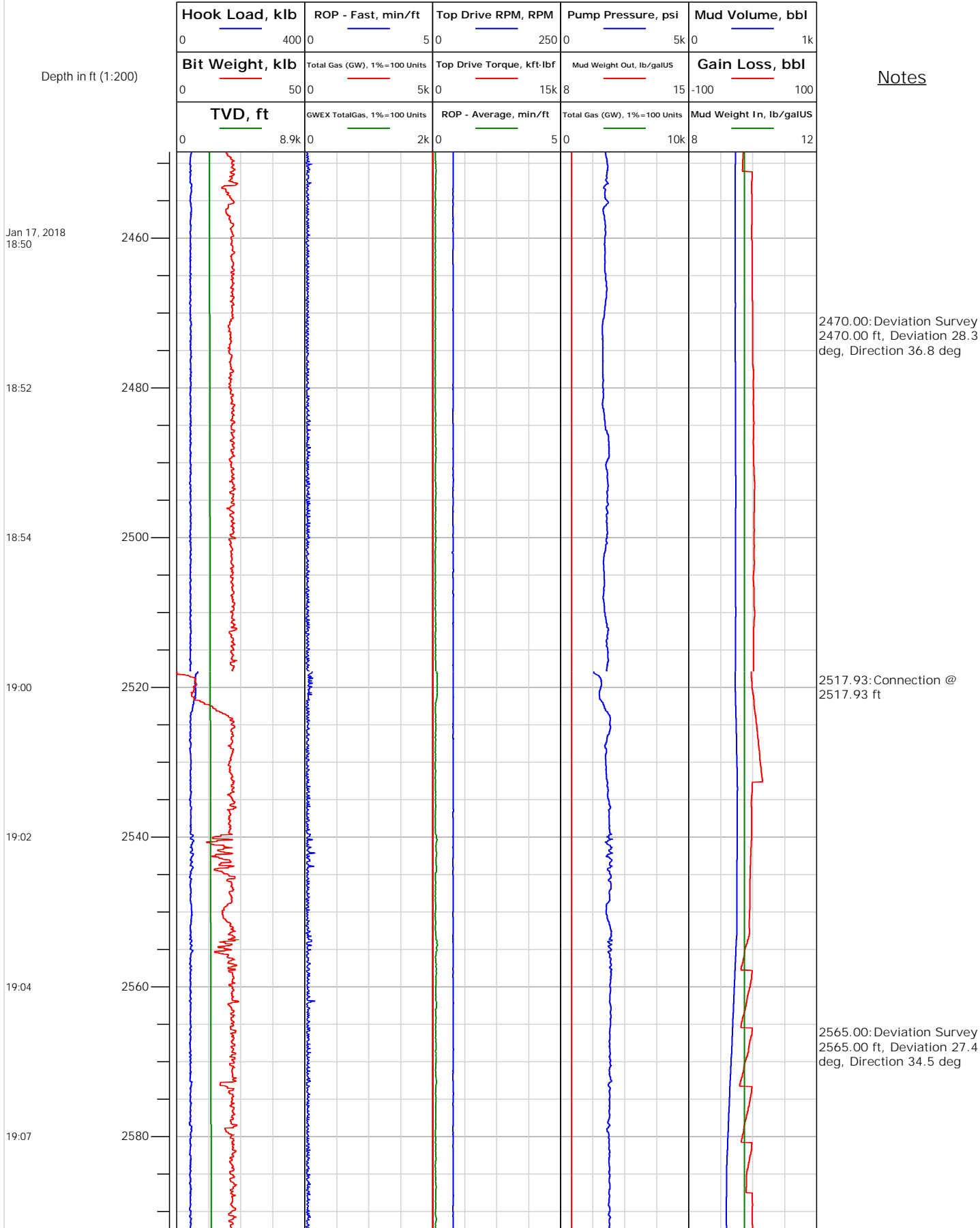
Electronic Drilling Recorder

Operator: Laramie Energy
Contractor: Helmerich & Payne Drlg Co

Well Name: Nichols 24-01E
Rig: 290

Location:

Notes





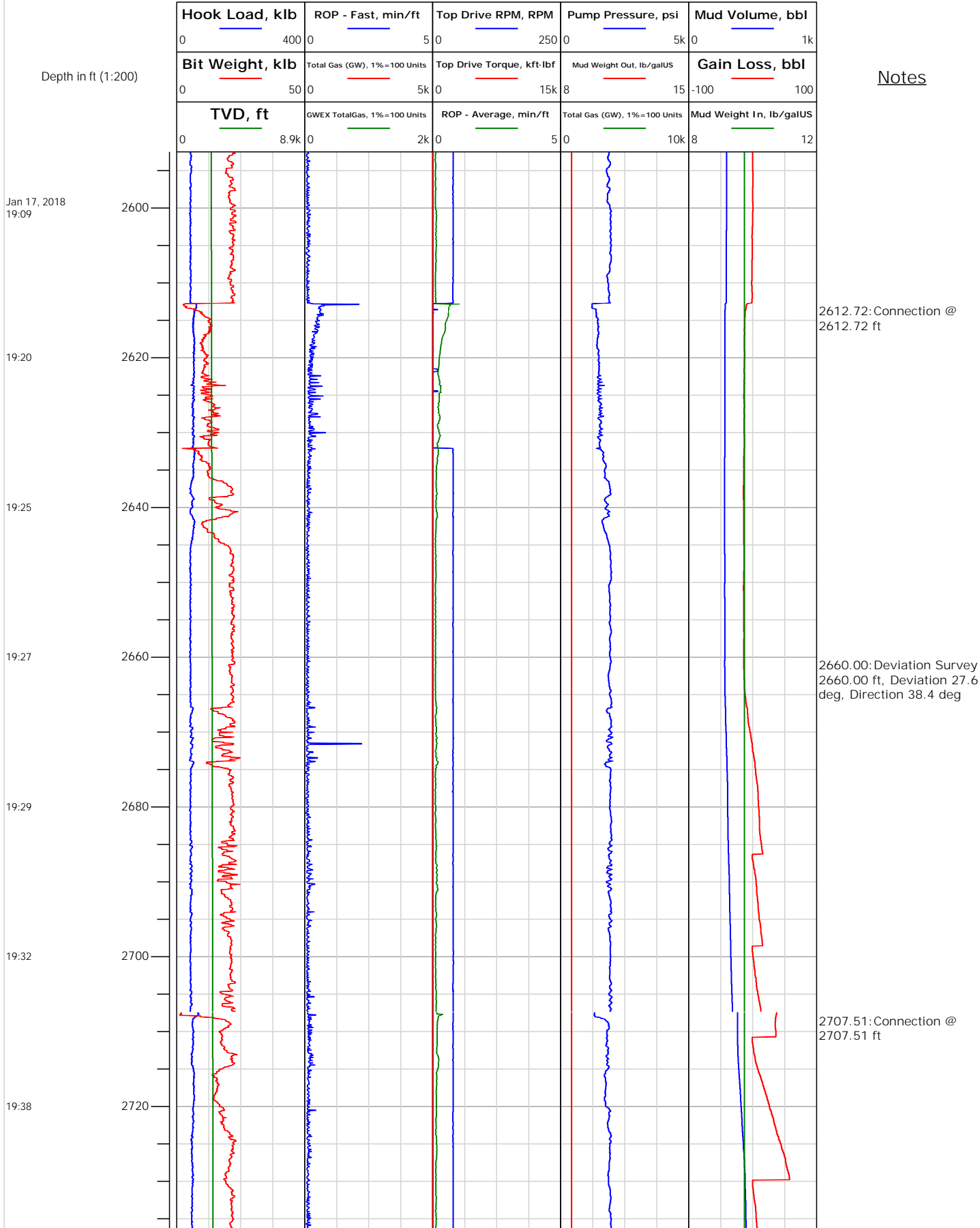
Electronic Drilling Recorder

Operator: Laramie Energy
Contractor: Helmerich & Payne Drlg Co

Well Name: Nichols 24-01E
Rig: 290

Location:

Notes



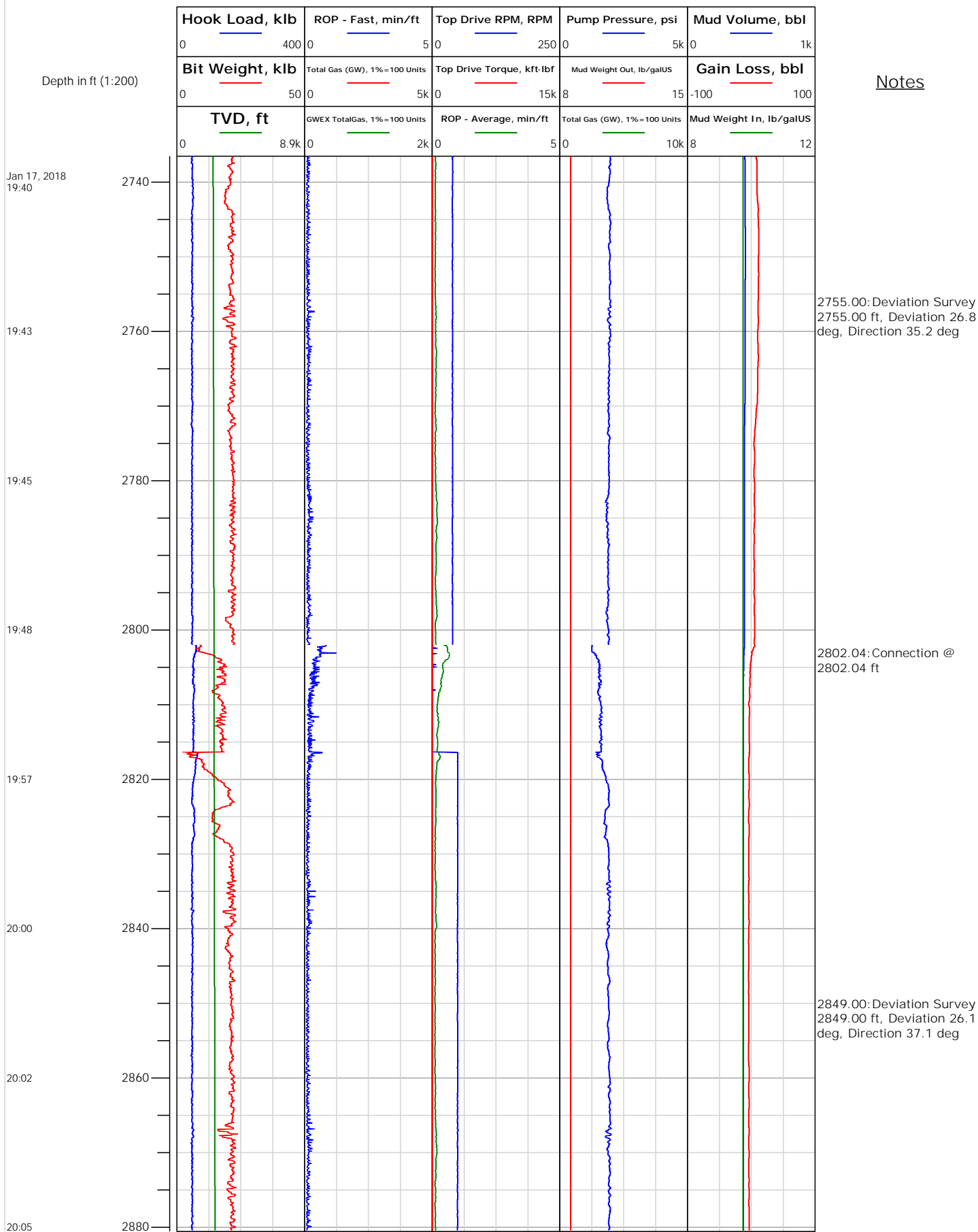


Electronic Drilling Recorder

Operator: Laramie Energy
Contractor: Helmerich & Payne Drlg Co

Well Name: Nichols 24-01E
Rig: 290

Location:





Electronic Drilling Recorder

Operator: Laramie Energy
Contractor: Helmerich & Payne Drlg Co

Well Name: Nichols 24-01E
Rig: 290

Location:

Depth in ft (1:200)

Notes

Jan 17, 2018
20:27

20:30

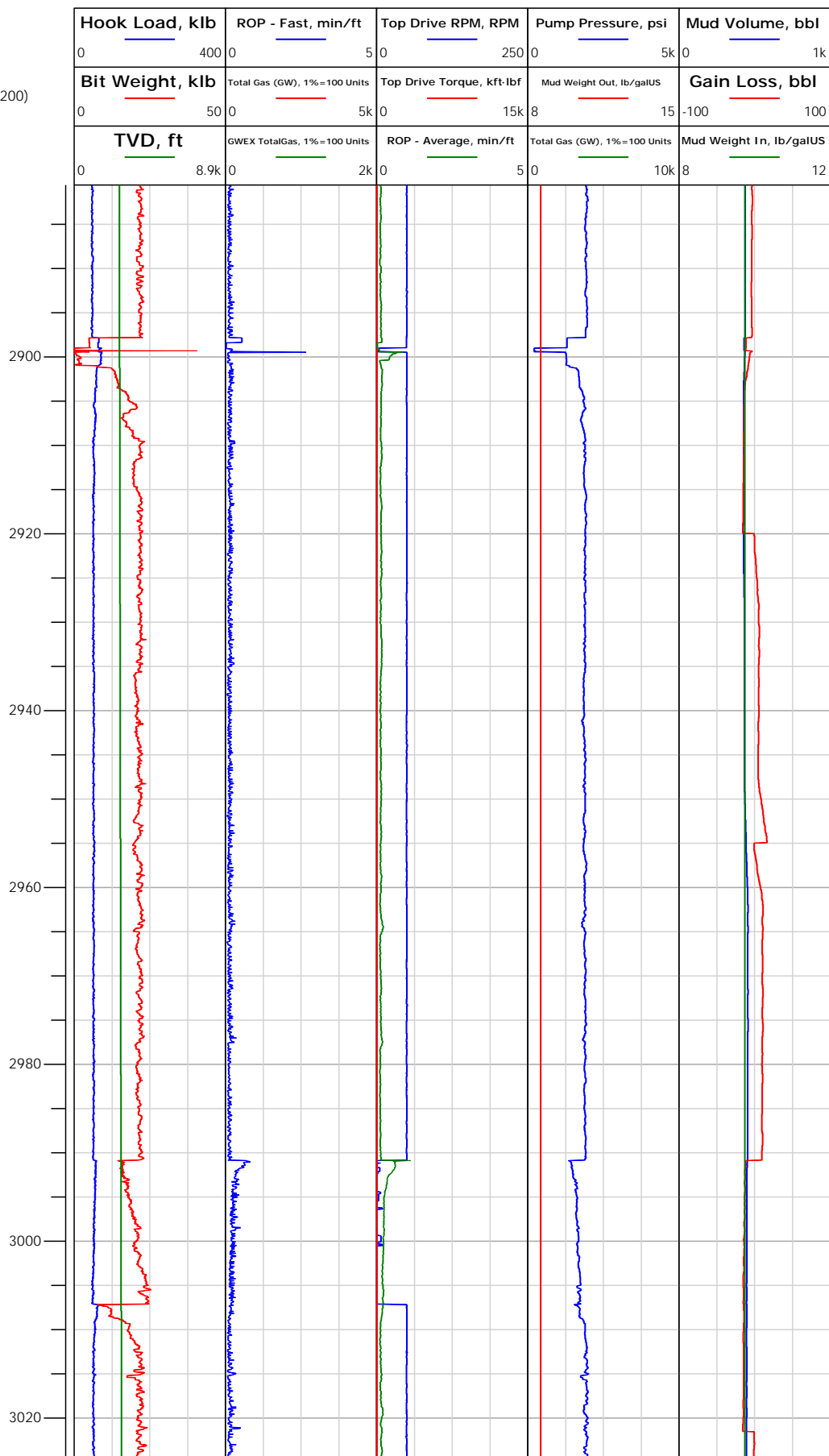
20:32

20:35

20:38

20:47

20:50



2897.83: Connection @
2897.83 ft

2944.00: Deviation Survey
2944.00 ft, Deviation 25.8
deg, Direction 36 deg

2995.60: Connection @
2995.60 ft
2996.23: Rig Floor set Hole
Depth from 2995.93 ft to
2991.00 ft



Electronic Drilling Recorder

Operator: Laramie Energy
Contractor: Helmerich & Payne Drlg Co

Well Name: Nichols 24-01E
Rig: 290

Location:

Notes

Depth in ft (1:200)

Jan 17, 2018
20:53

20:55

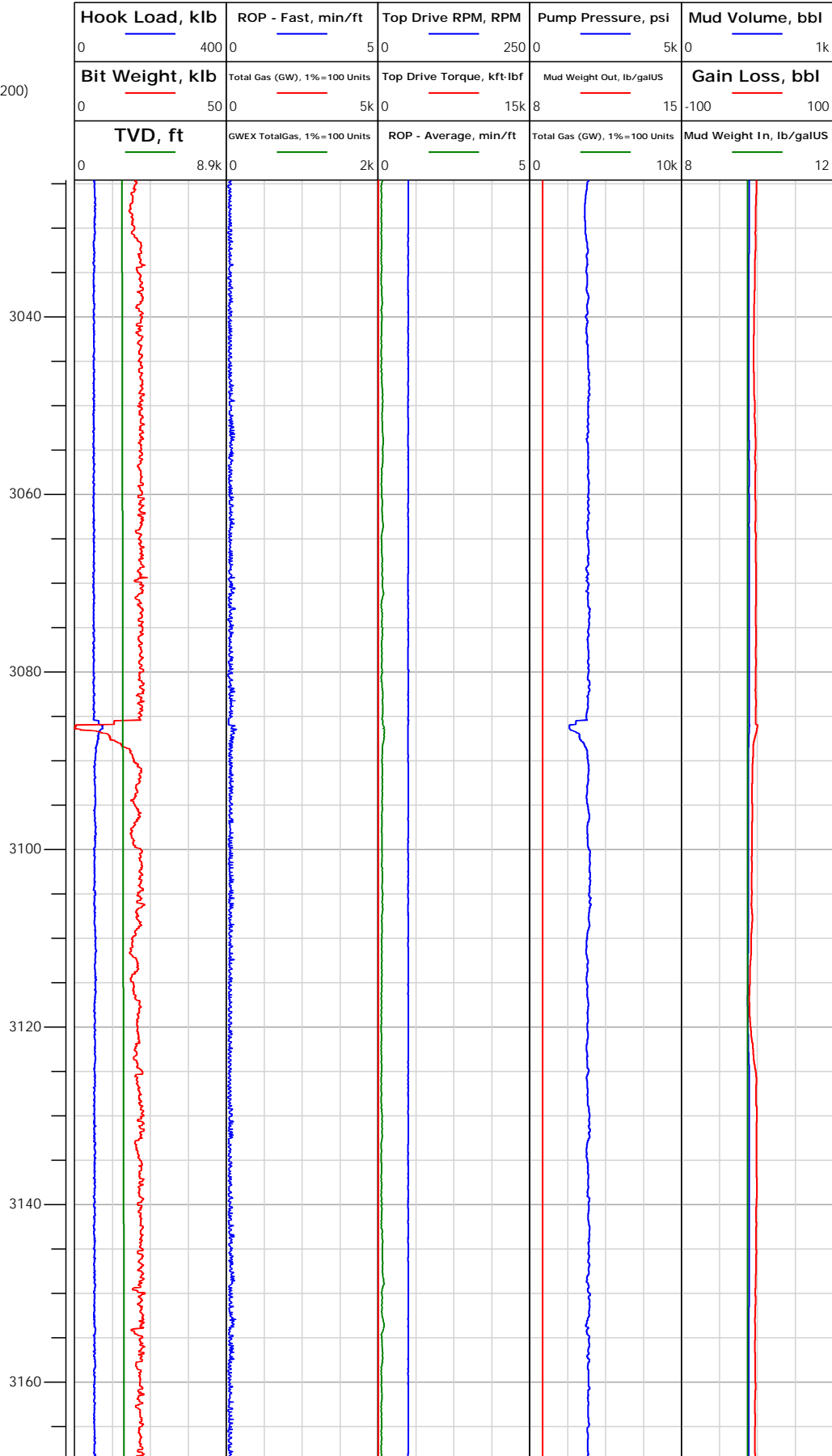
20:58

21:05

21:08

21:10

21:13



3038.00: Deviation Survey
 3038.00 ft, Deviation 27
 deg, Direction 37.2 deg

3085.99: Connection @
 3085.99 ft

3133.00: Deviation Survey
 3133.00 ft, Deviation 26.3
 deg, Direction 36.8 deg



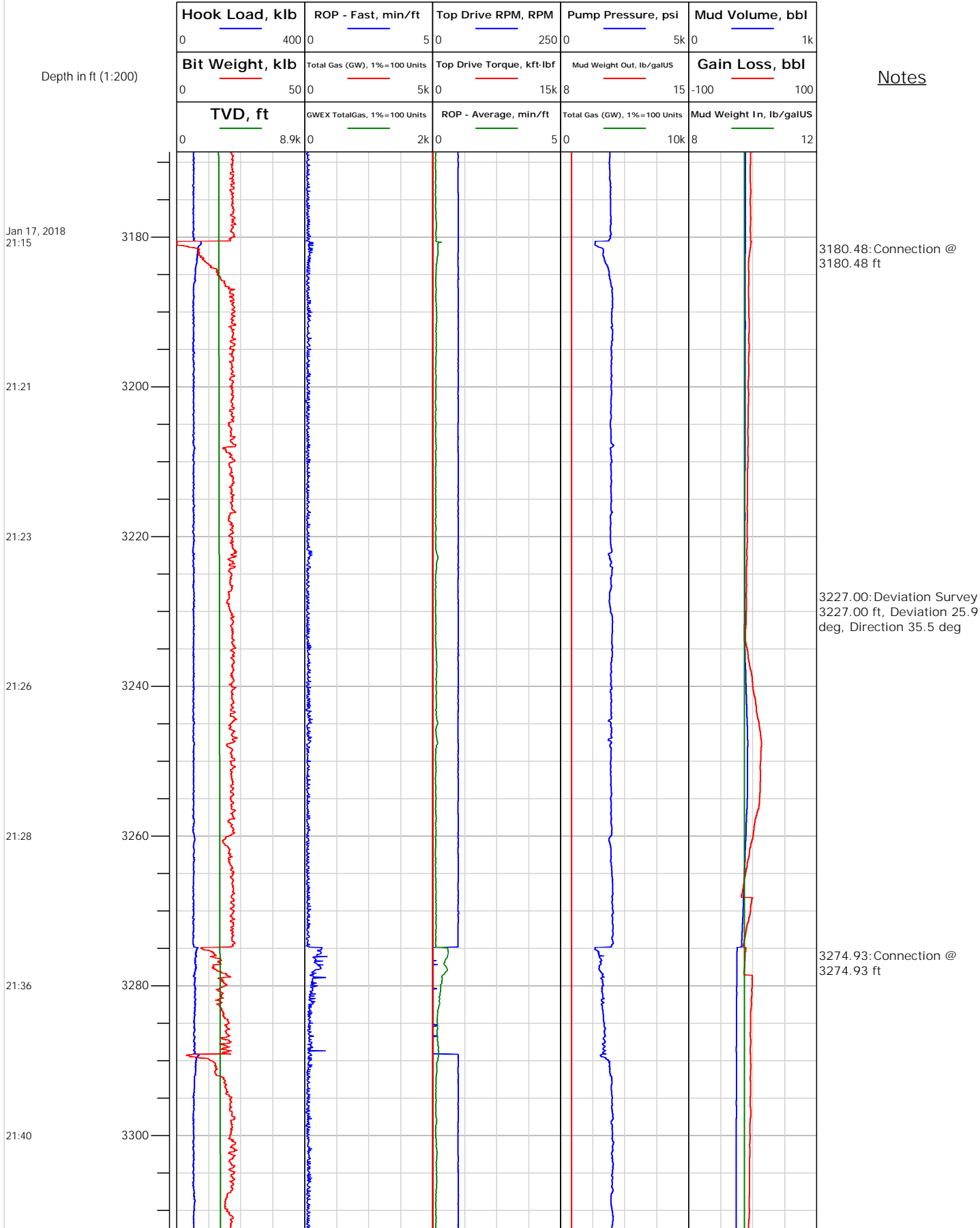
Electronic Drilling Recorder

Operator: Laramie Energy
Contractor: Helmerich & Payne Drlg Co

Well Name: Nichols 24-01E
Rig: 290

Location:

Notes





Electronic Drilling Recorder

Operator: Laramie Energy
Contractor: Helmerich & Payne Drlg Co

Well Name: Nichols 24-01E
Rig: 290

Location:

Depth in ft (1:200)

Notes

Jan 17, 2018
21:42

21:45

21:47

21:54

21:57

22:00

22:02

3320

3340

3360

3380

3400

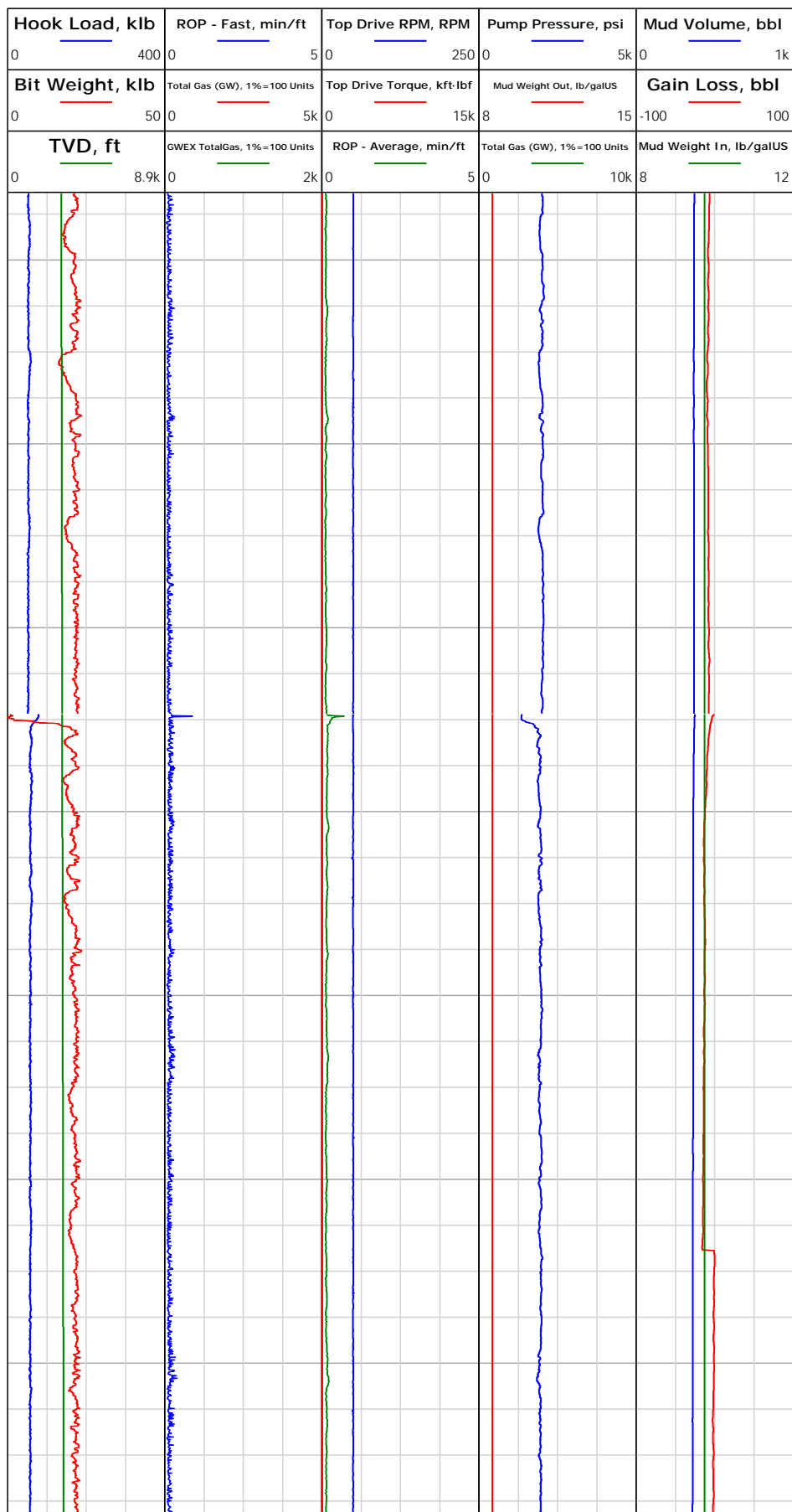
3420

3440

3322.00: Deviation Survey
3322.00 ft, Deviation 26.5
deg, Direction 37.3 deg

3369.37: Connection @
3369.38 ft

3417.00: Deviation Survey
3417.00 ft, Deviation 25.8
deg, Direction 36.4 deg





Electronic Drilling Recorder

Operator: Laramie Energy
Contractor: Helmerich & Payne Drlg Co

Well Name: Nichols 24-01E
Rig: 290

Location:

Depth in ft (1:200)

Notes

Jan 17, 2018
22:05

22:11

22:14

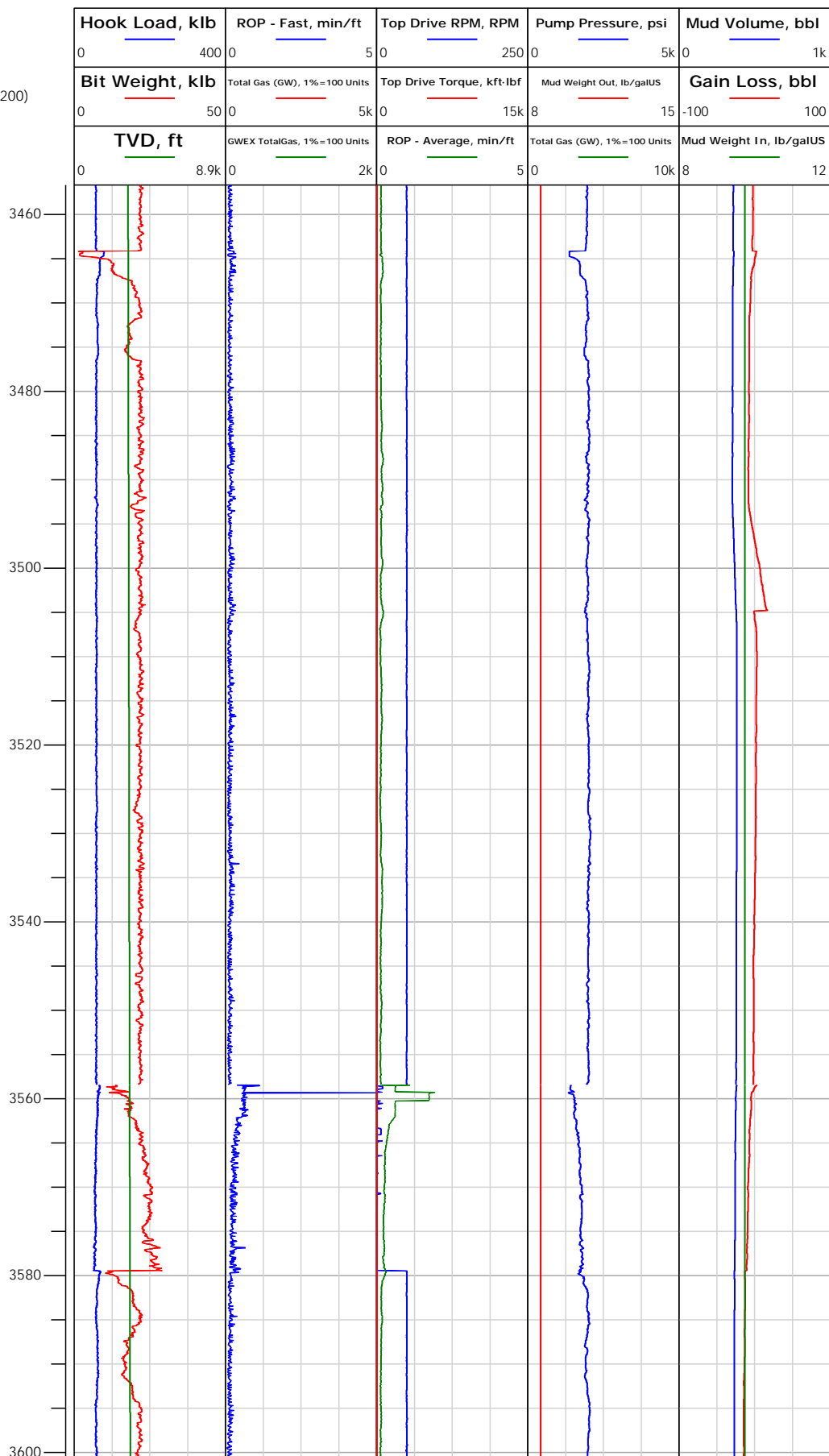
22:17

22:20

22:27

22:34

22:37



3464.10: Connection @
3464.10 ft

3511.00: Deviation Survey
3511.00 ft, Deviation 25
deg, Direction 35.7 deg

3558.52: Connection @
3558.52 ft



Electronic Drilling Recorder

Operator: Laramie Energy
Contractor: Helmerich & Payne Drlg Co

Well Name: Nichols 24-01E
Rig: 290

Location:

Depth in ft (1:200)

Notes

Jan 17, 2018
22:40

22:43

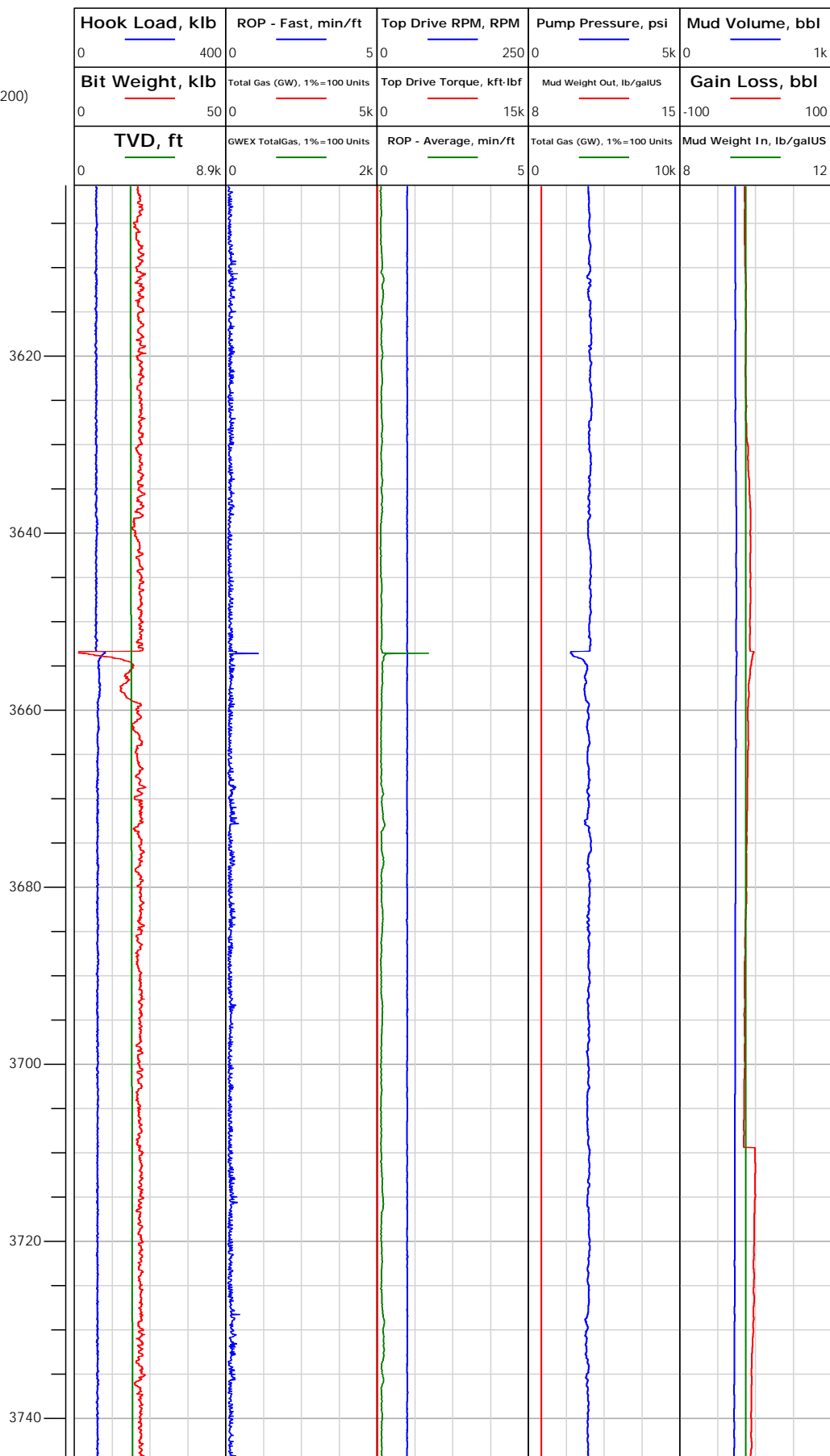
22:49

22:52

22:55

22:57

23:01





Electronic Drilling Recorder

Operator: Laramie Energy
Contractor: Helmerich & Payne Drlg Co

Well Name: Nichols 24-01E
Rig: 290

Location:

Depth in ft (1:200)

Notes

Jan 17, 2018
23:09

23:13

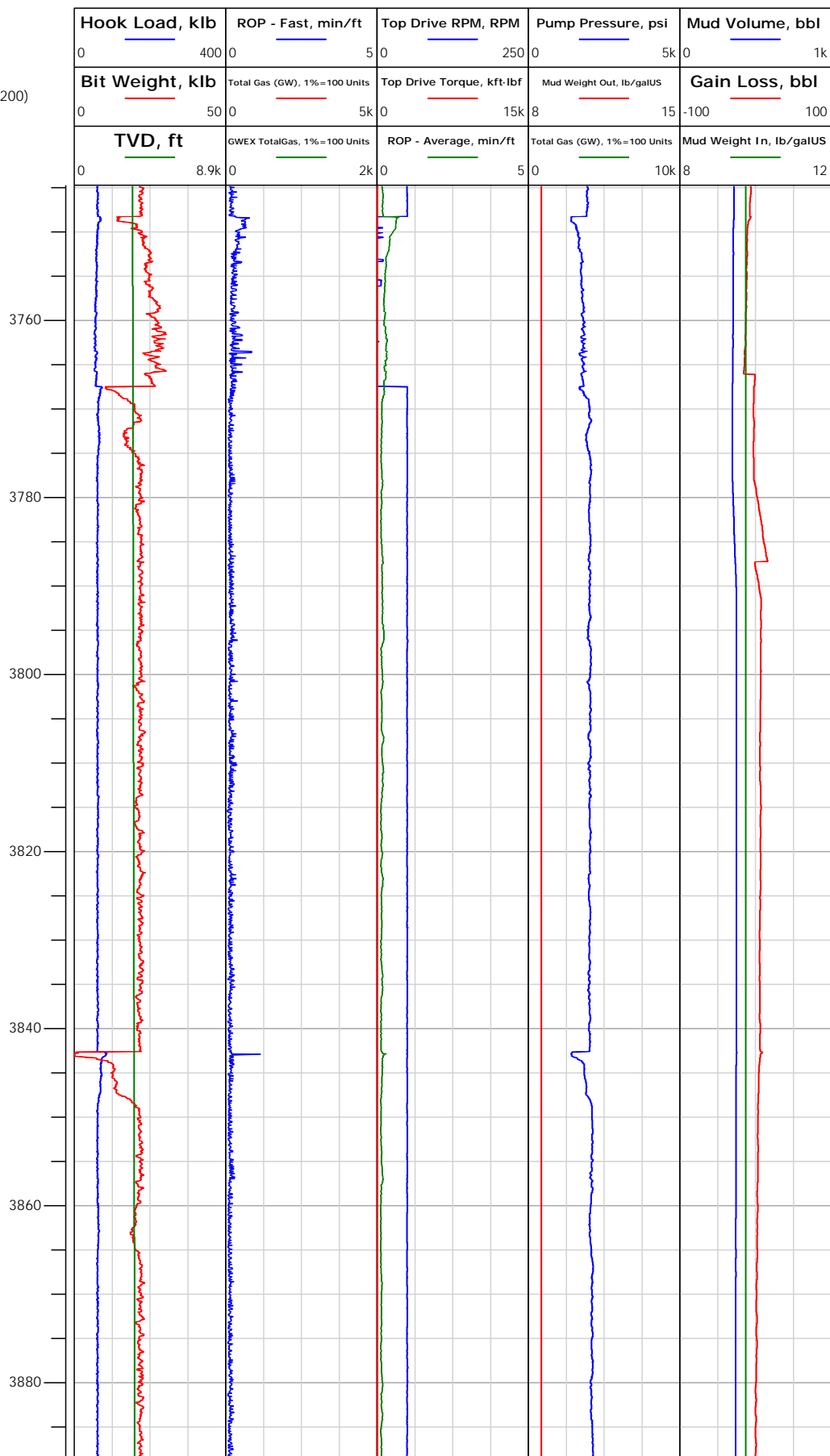
23:16

23:19

23:22

23:28

23:31



3748.14: Connection @
3748.15 ft

3794.99: Deviation Survey
3795.00 ft, Deviation 27.2
deg, Direction 39.2 deg

3842.71: Connection @
3842.71 ft



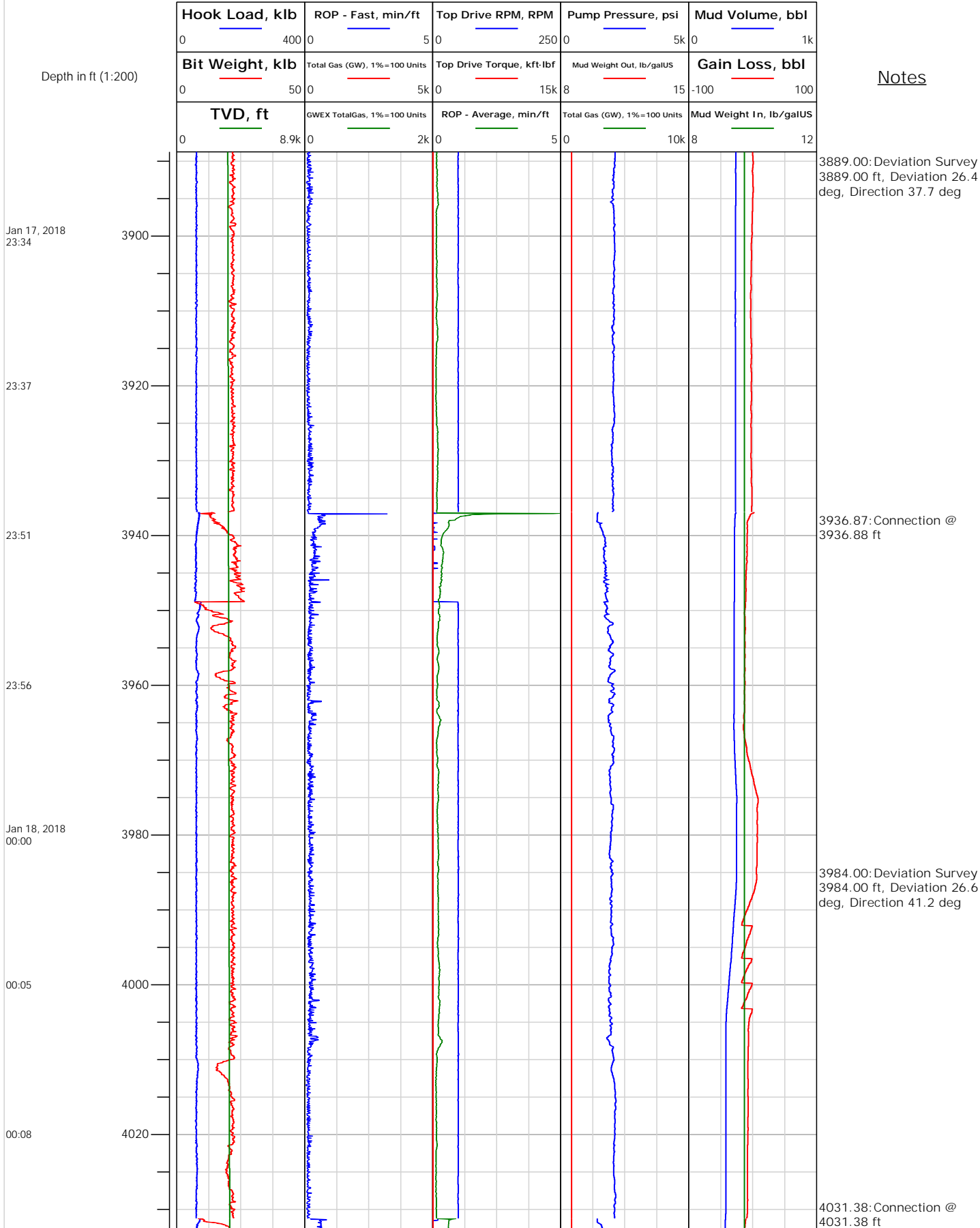
Electronic Drilling Recorder

Operator: Laramie Energy
Contractor: Helmerich & Payne Drlg Co

Well Name: Nichols 24-01E
Rig: 290

Location:

Notes





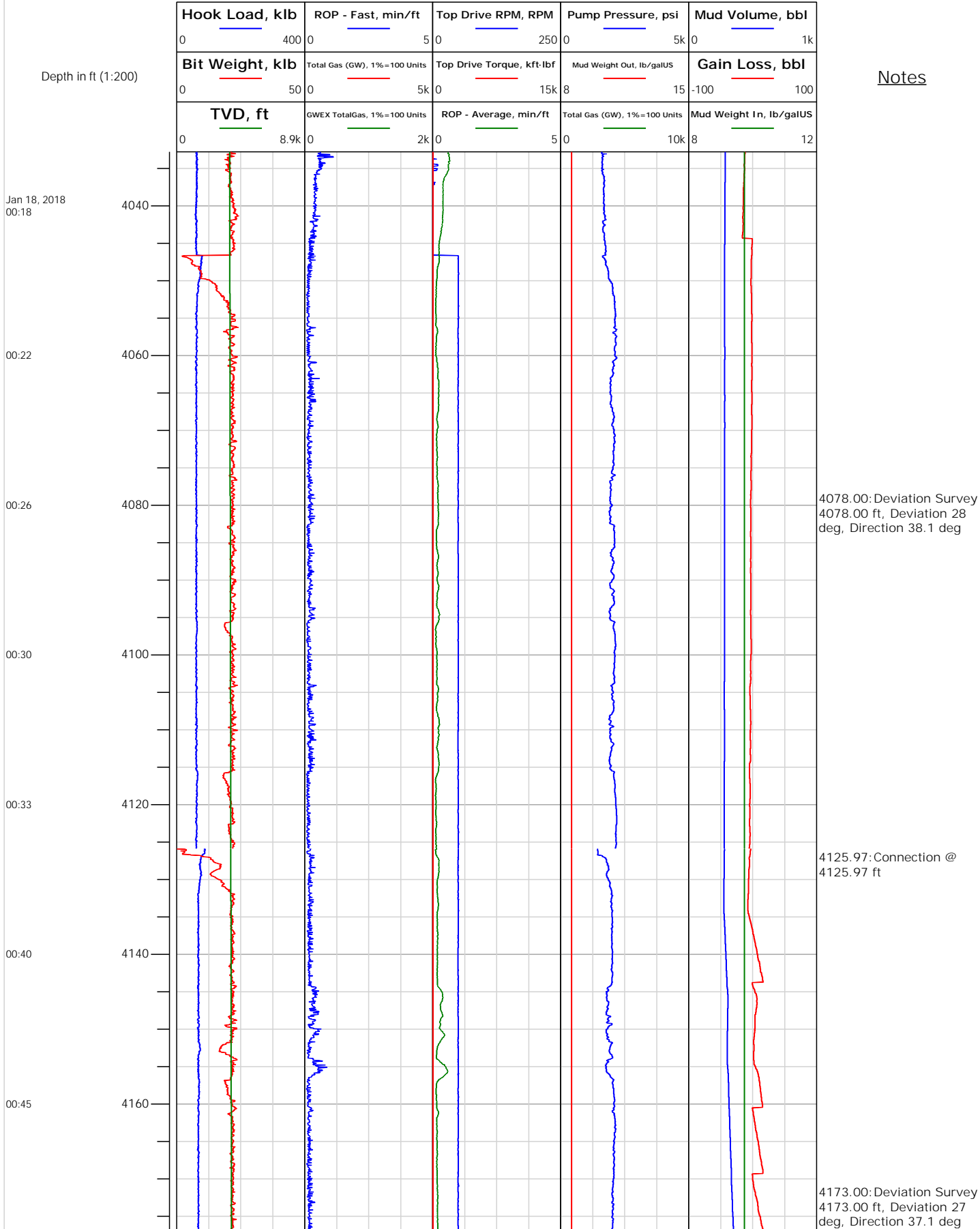
Electronic Drilling Recorder

Operator: Laramie Energy
Contractor: Helmerich & Payne Drlg Co

Well Name: Nichols 24-01E
Rig: 290

Location:

Notes





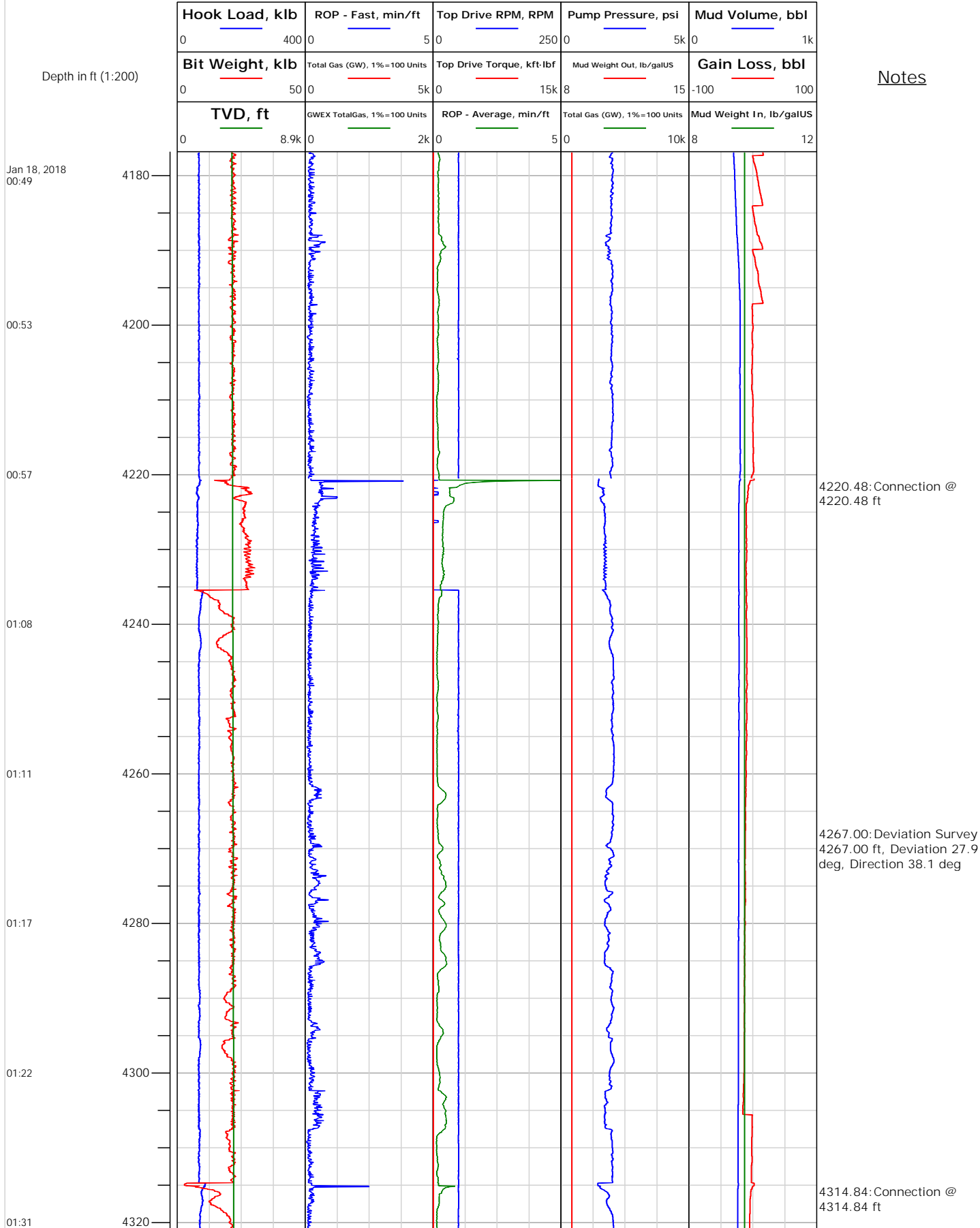
Electronic Drilling Recorder

Operator: Laramie Energy
Contractor: Helmerich & Payne Drlg Co

Well Name: Nichols 24-01E
Rig: 290

Location:

Notes





Electronic Drilling Recorder

Operator: Laramie Energy
Contractor: Helmerich & Payne Drlg Co

Well Name: Nichols 24-01E
Rig: 290

Location:

Notes

Depth in ft (1:200)

Jan 18, 2018
01:35

01:39

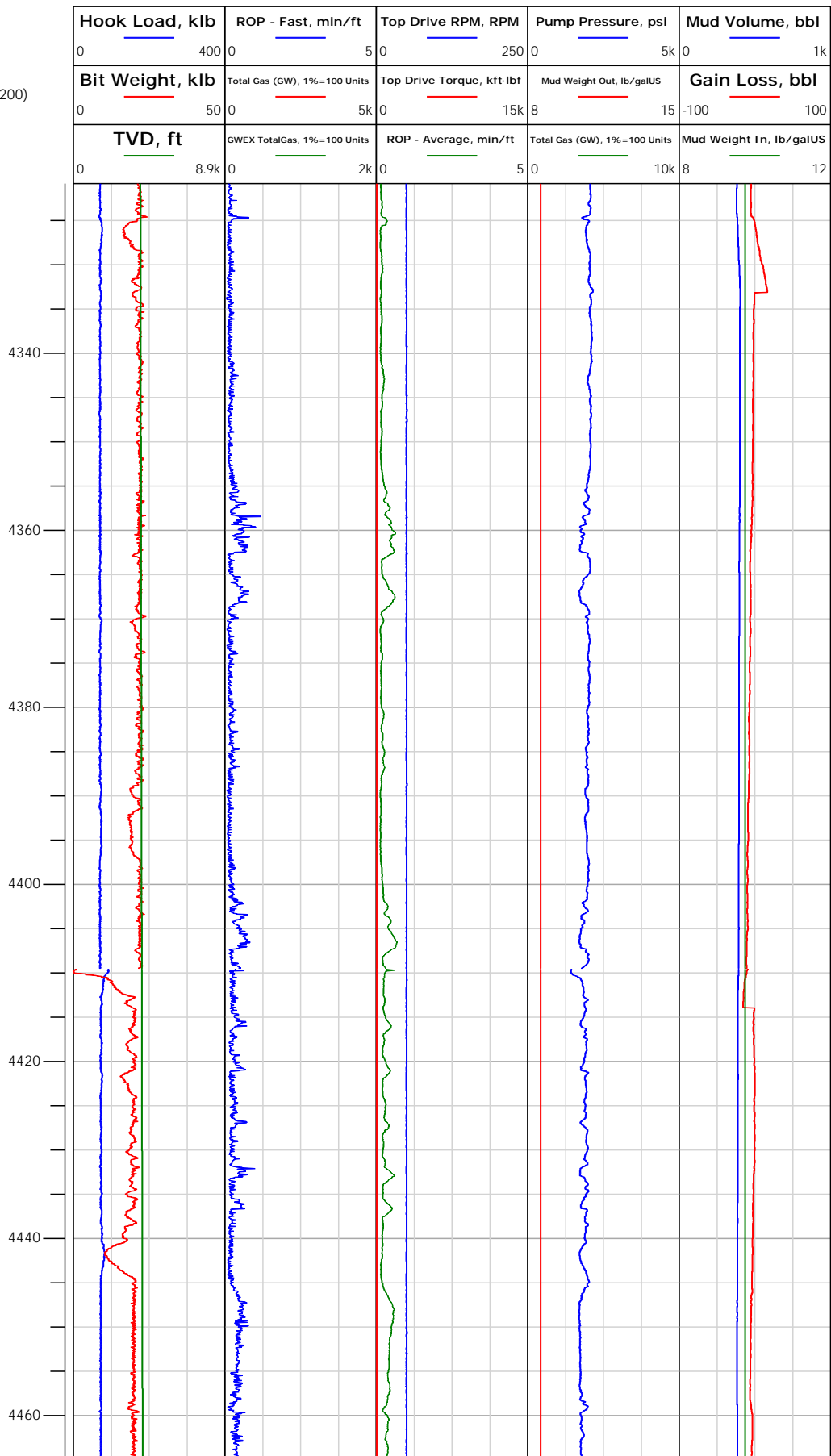
01:45

01:48

01:58

02:04

02:11



4362.00: Deviation Survey
 4362.00 ft, Deviation 27.4
 deg, Direction 37.2 deg

4409.63: Connection @
 4409.63 ft



Electronic Drilling Recorder

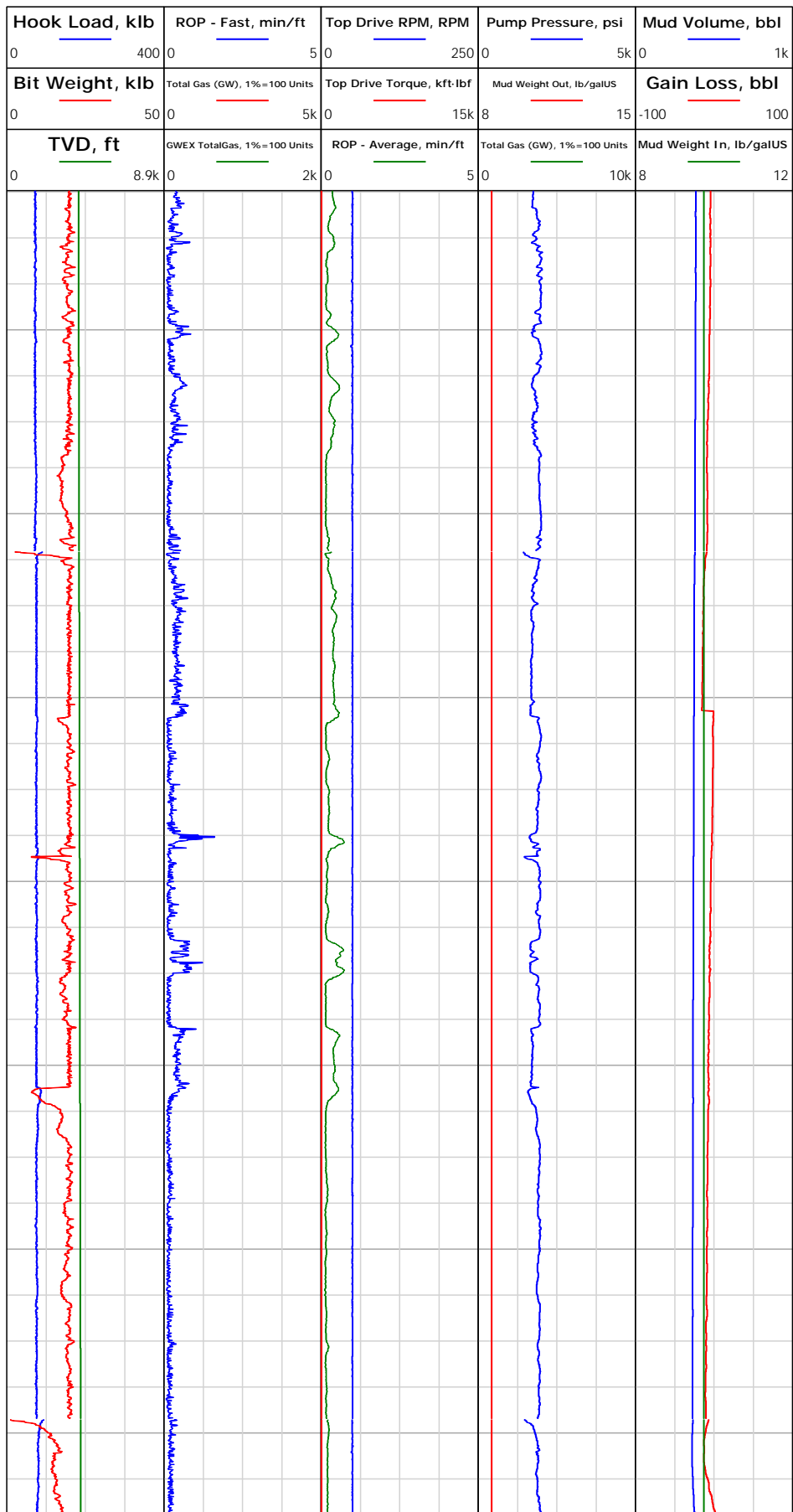
Operator: Laramie Energy
Contractor: Helmerich & Payne Drlg Co

Well Name: Nichols 24-01E
Rig: 290

Location:

Notes

Depth in ft (1:200)



Jan 18, 2018
02:17

02:22

02:33

02:40

02:46

02:50

02:56

4488.00: Deviation Survey
4488.00 ft, Deviation 26.5
deg, Direction 35.4 deg

4504.11: Connection @
4504.11 ft

4551.00: Deviation Survey
4551.00 ft, Deviation 26.2
deg, Direction 35.9 deg

4598.65: Connection @
4598.65 ft



Electronic Drilling Recorder

Operator: Laramie Energy
Contractor: Helmerich & Payne Drlg Co

Well Name: Nichols 24-01E
Rig: 290

Location:

Notes

Depth in ft (1:200)

Jan 18, 2018
03:00

03:05

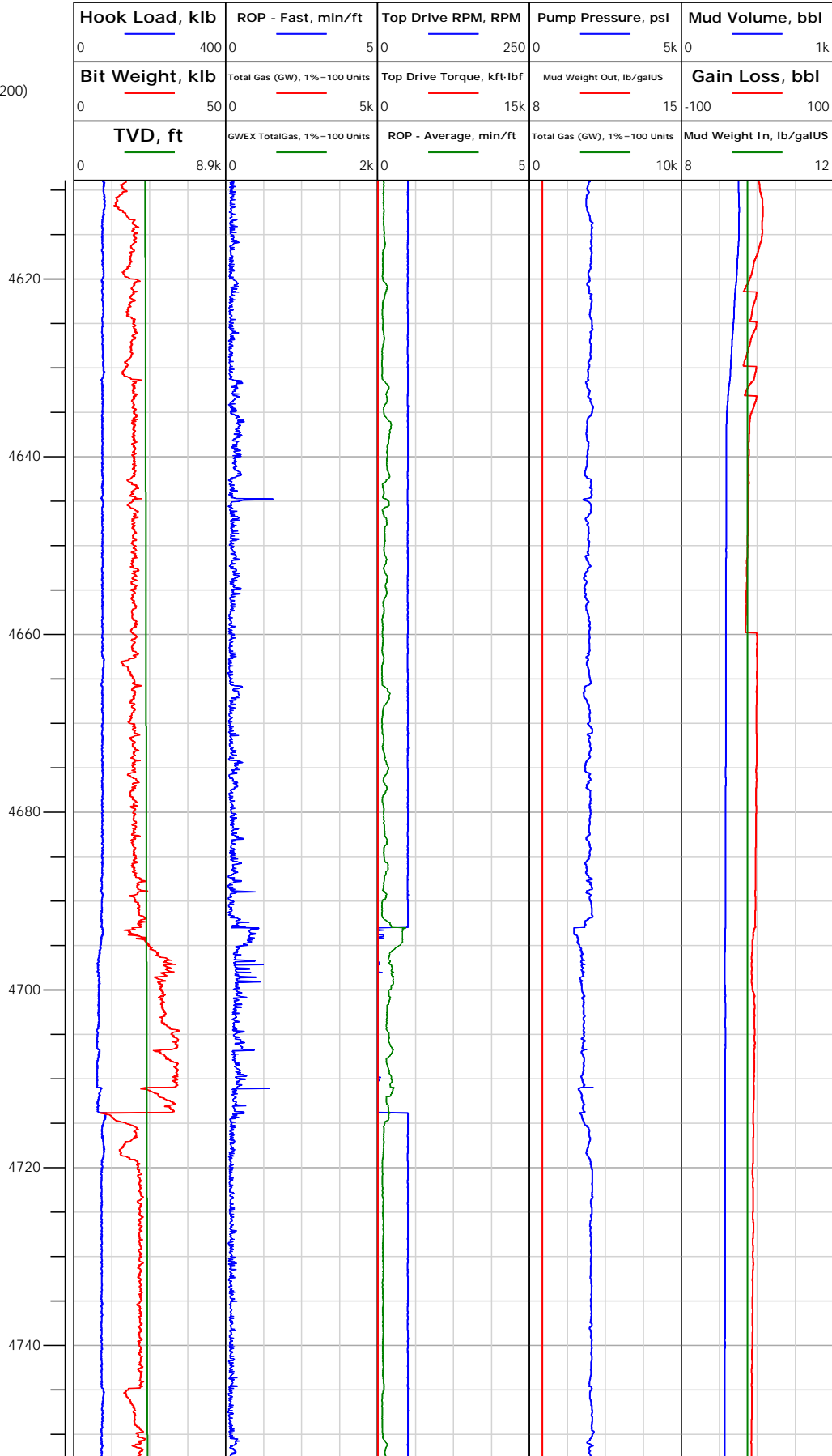
03:10

03:14

03:25

03:32

03:35



4646.00: Deviation Survey
4646.00 ft, Deviation 24.8 deg, Direction 35.8 deg

4693.02: Connection @
4693.03 ft

4740.00: Deviation Survey
4740.00 ft, Deviation 26 deg, Direction 35.1 deg



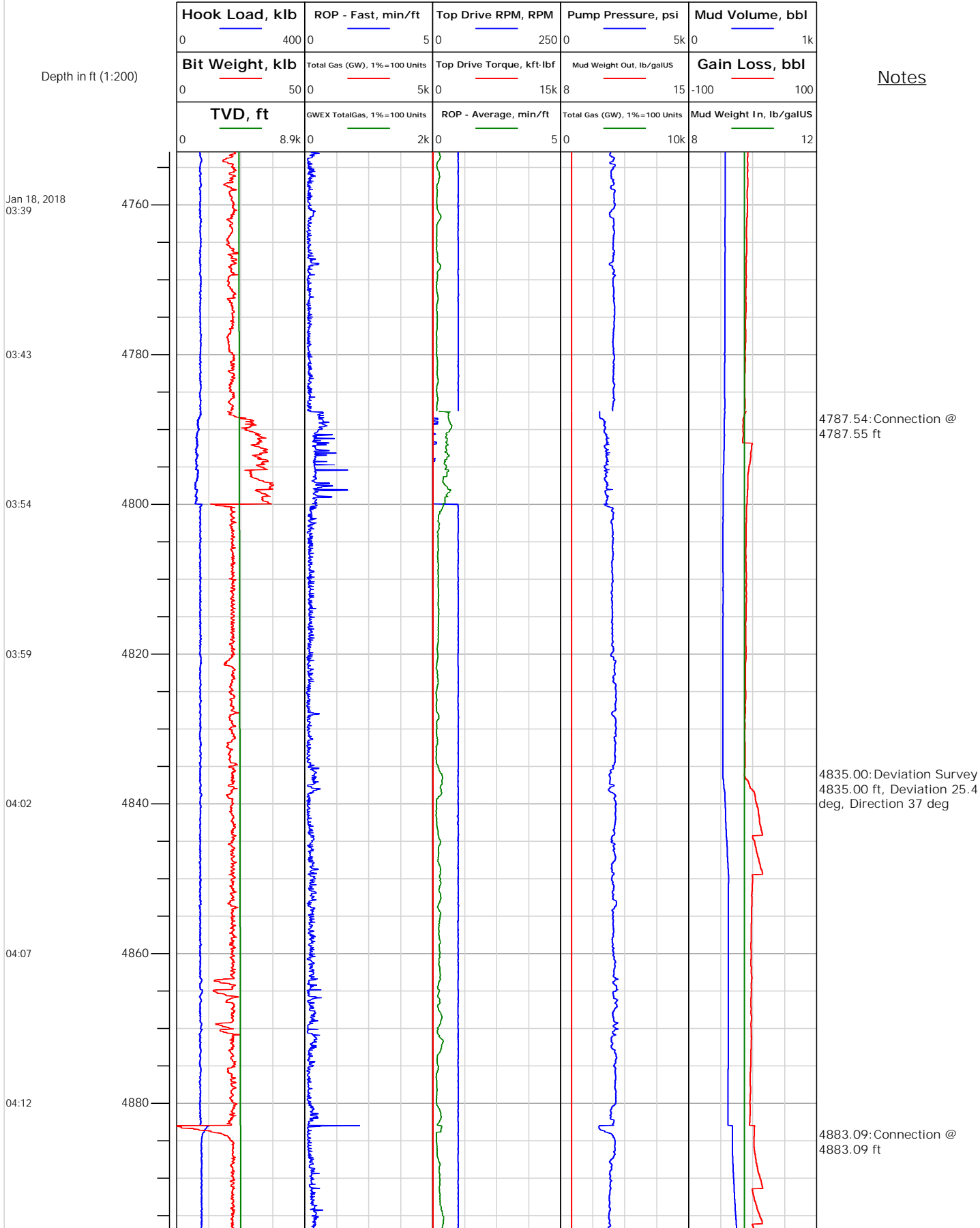
Electronic Drilling Recorder

Operator: Laramie Energy
Contractor: Helmerich & Payne Drlg Co

Well Name: Nichols 24-01E
Rig: 290

Location:

Notes





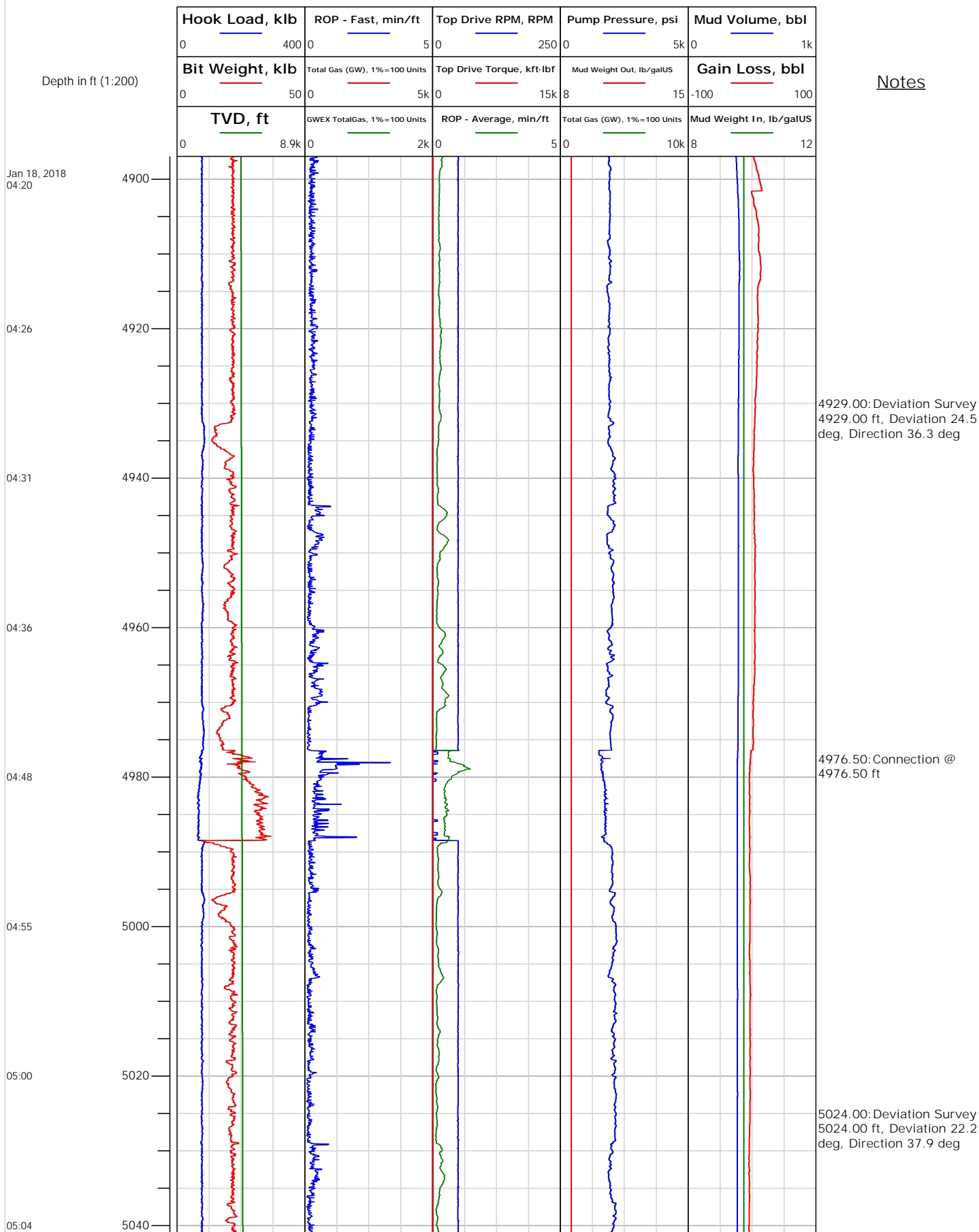
Electronic Drilling Recorder

Operator: Laramie Energy
Contractor: Helmerich & Payne Drlg Co

Well Name: Nichols 24-01E
Rig: 290

Location:

Notes





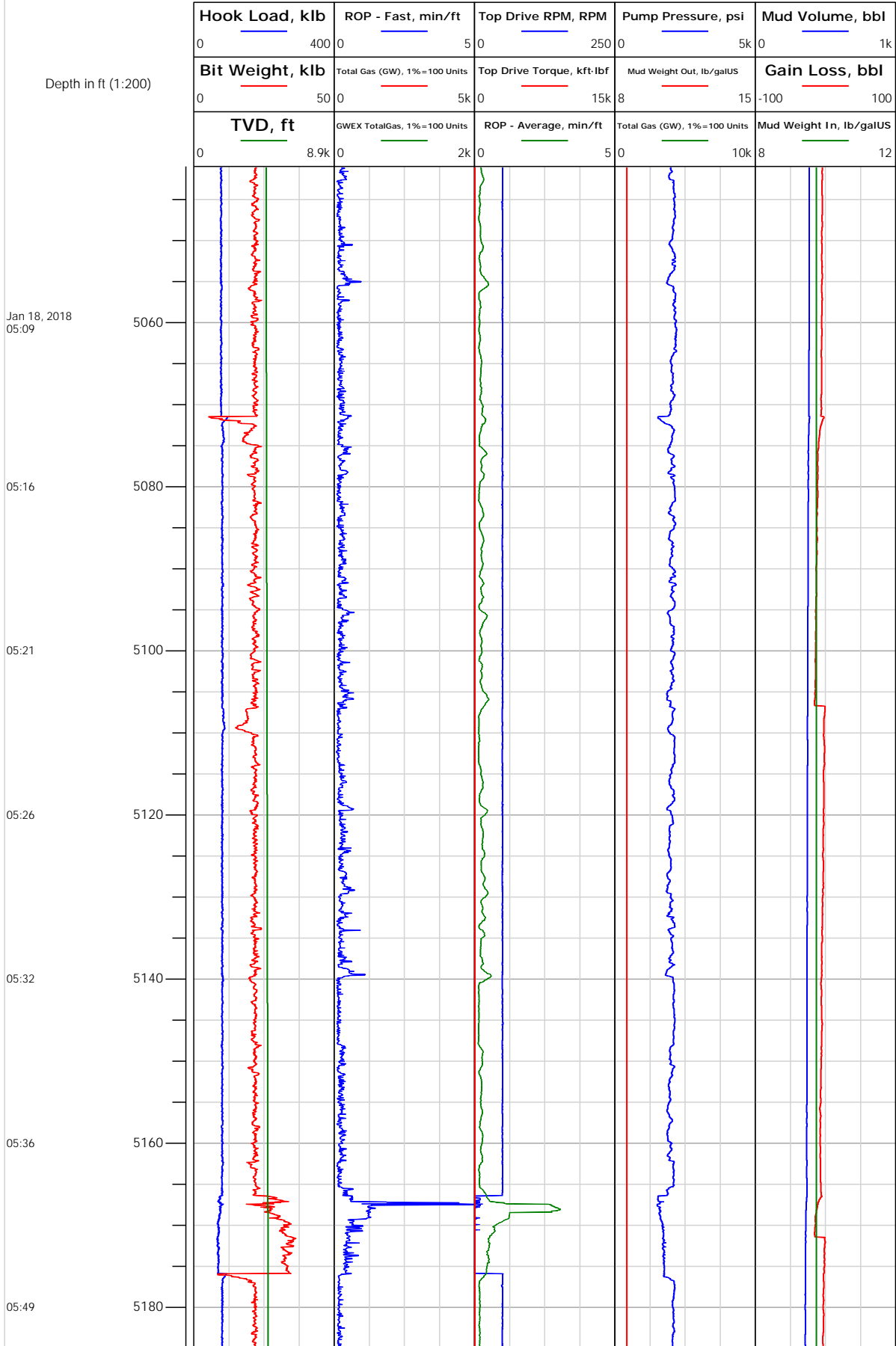
Electronic Drilling Recorder

Operator: Laramie Energy
Contractor: Helmerich & Payne Drlg Co

Well Name: Nichols 24-01E
Rig: 290

Location:

Notes





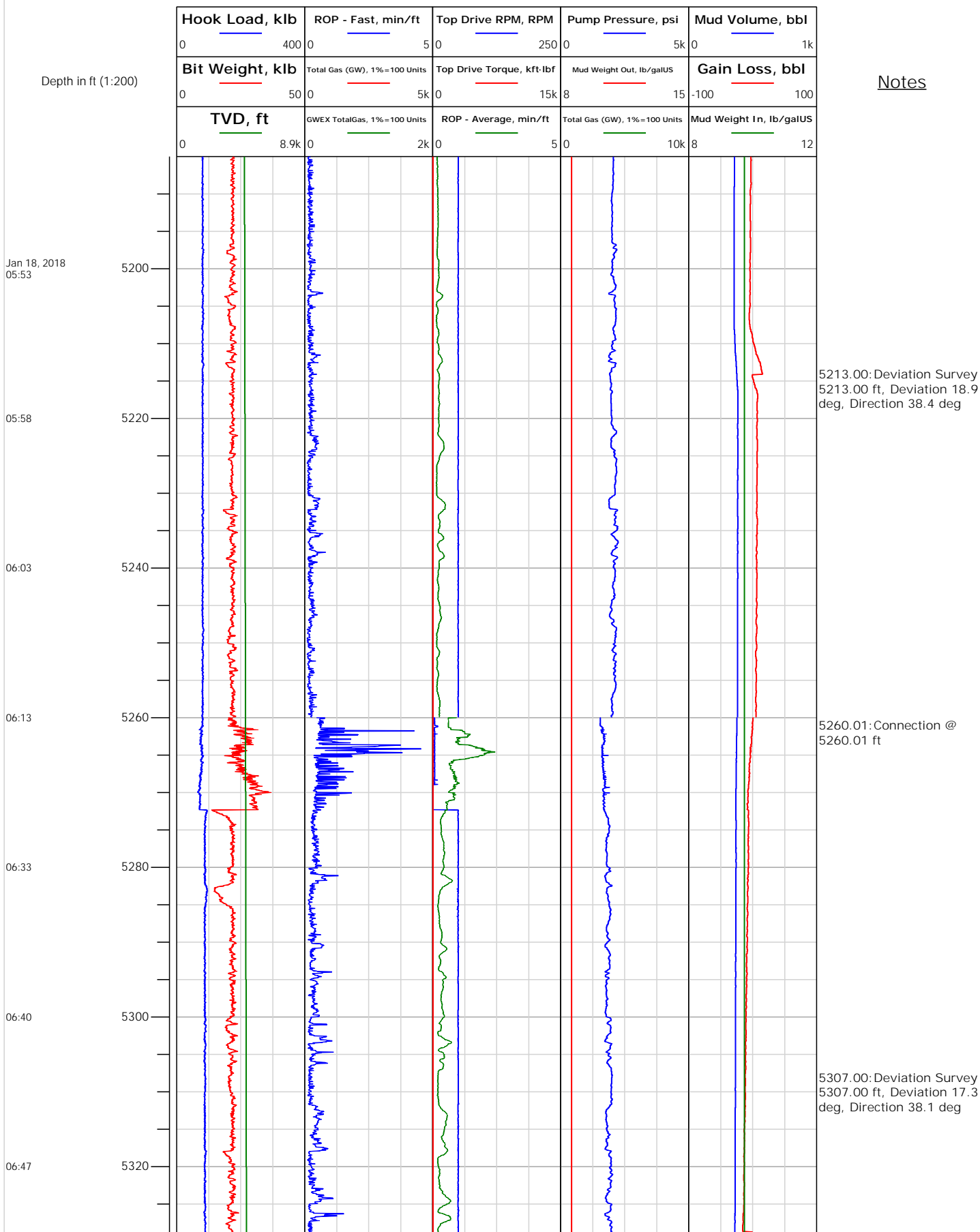
Electronic Drilling Recorder

Operator: Laramie Energy
Contractor: Helmerich & Payne Drlg Co

Well Name: Nichols 24-01E
Rig: 290

Location:

Notes





Electronic Drilling Recorder

Operator: Laramie Energy
Contractor: Helmerich & Payne Drlg Co

Well Name: Nichols 24-01E
Rig: 290

Location:

Notes

Depth in ft (1:200)

Jan 18, 2018
06:55

07:12

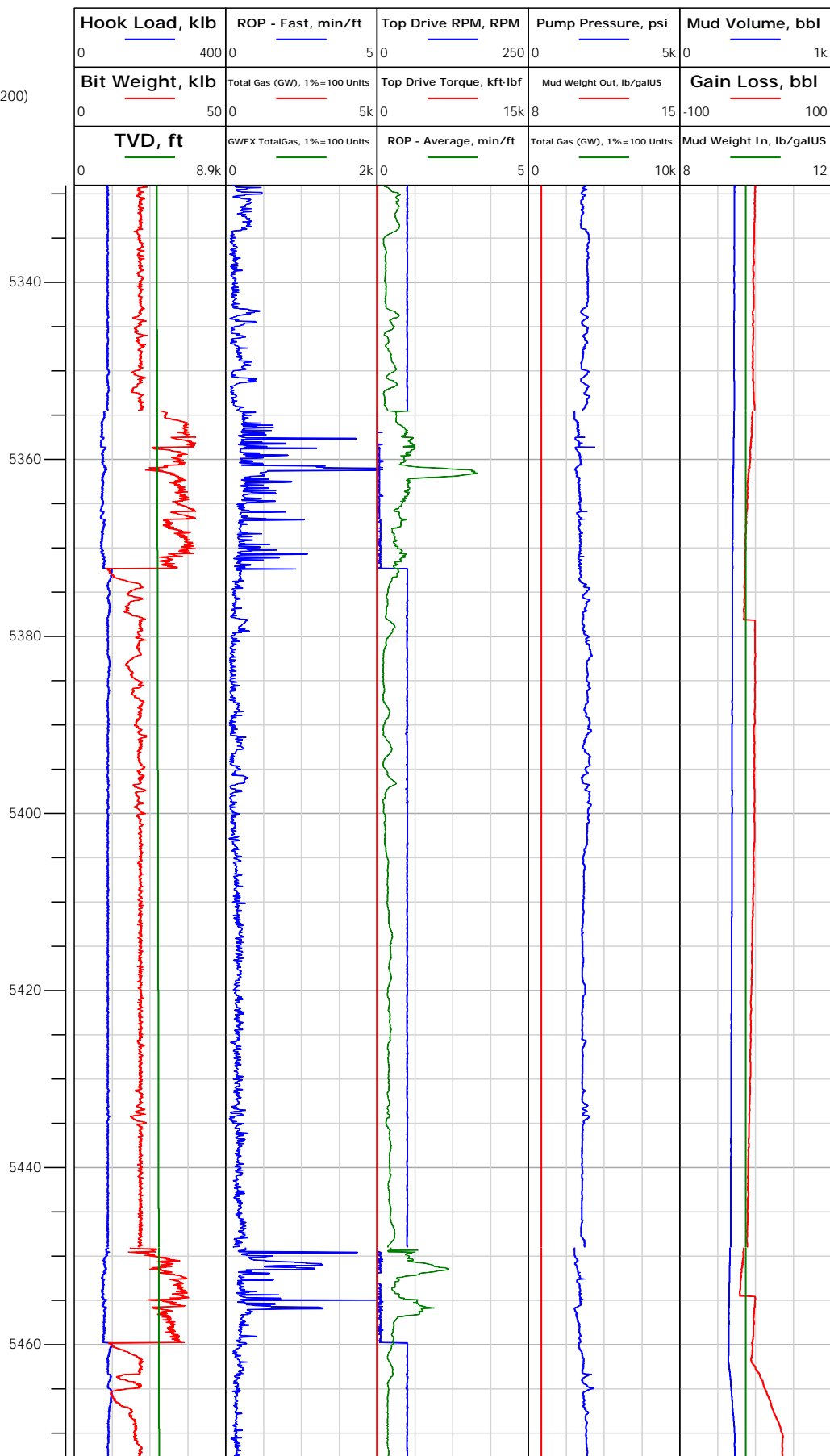
07:29

07:34

07:42

07:50

08:11





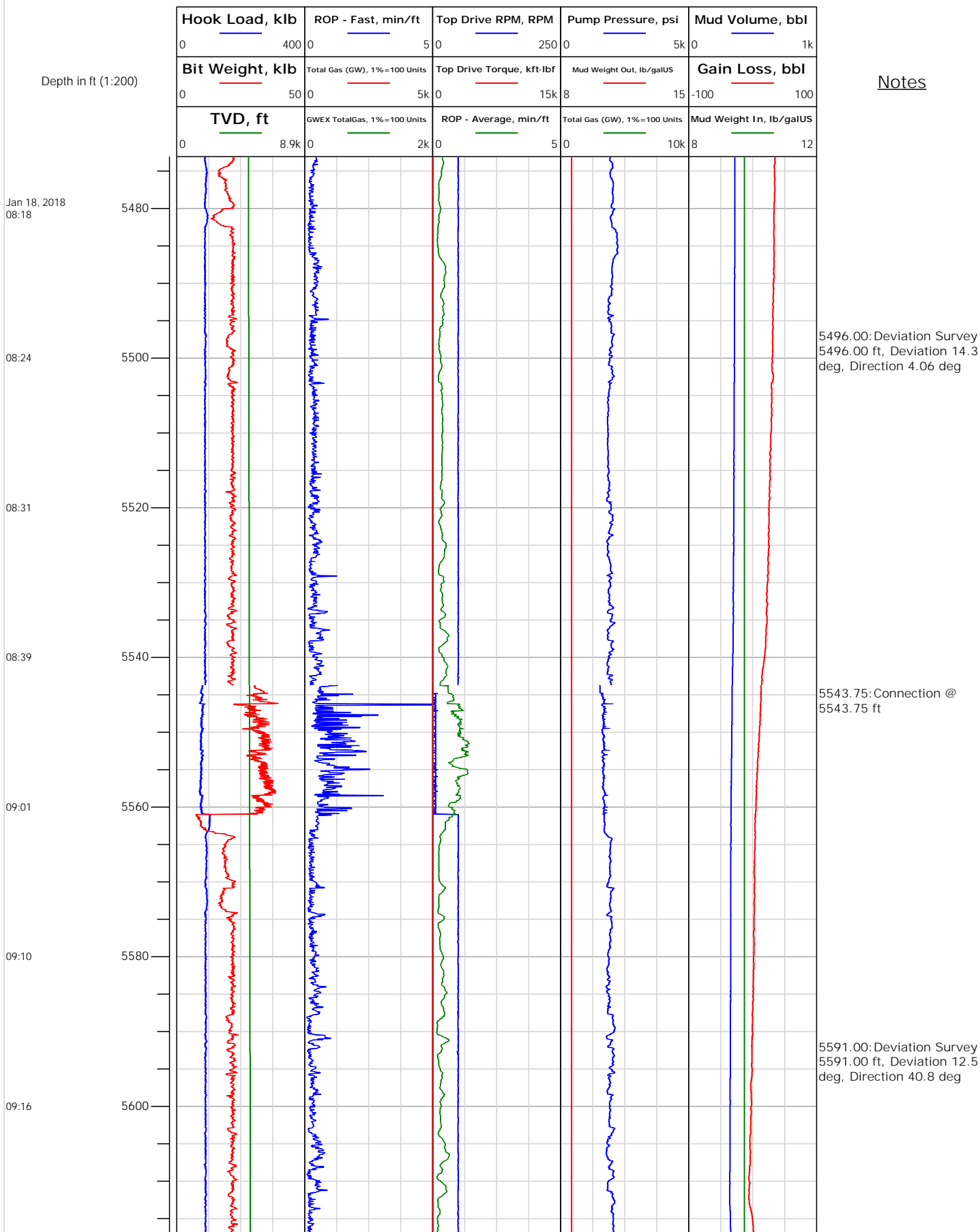
Electronic Drilling Recorder

Operator: Laramie Energy
Contractor: Helmerich & Payne Drlg Co

Well Name: Nichols 24-01E
Rig: 290

Location:

Notes





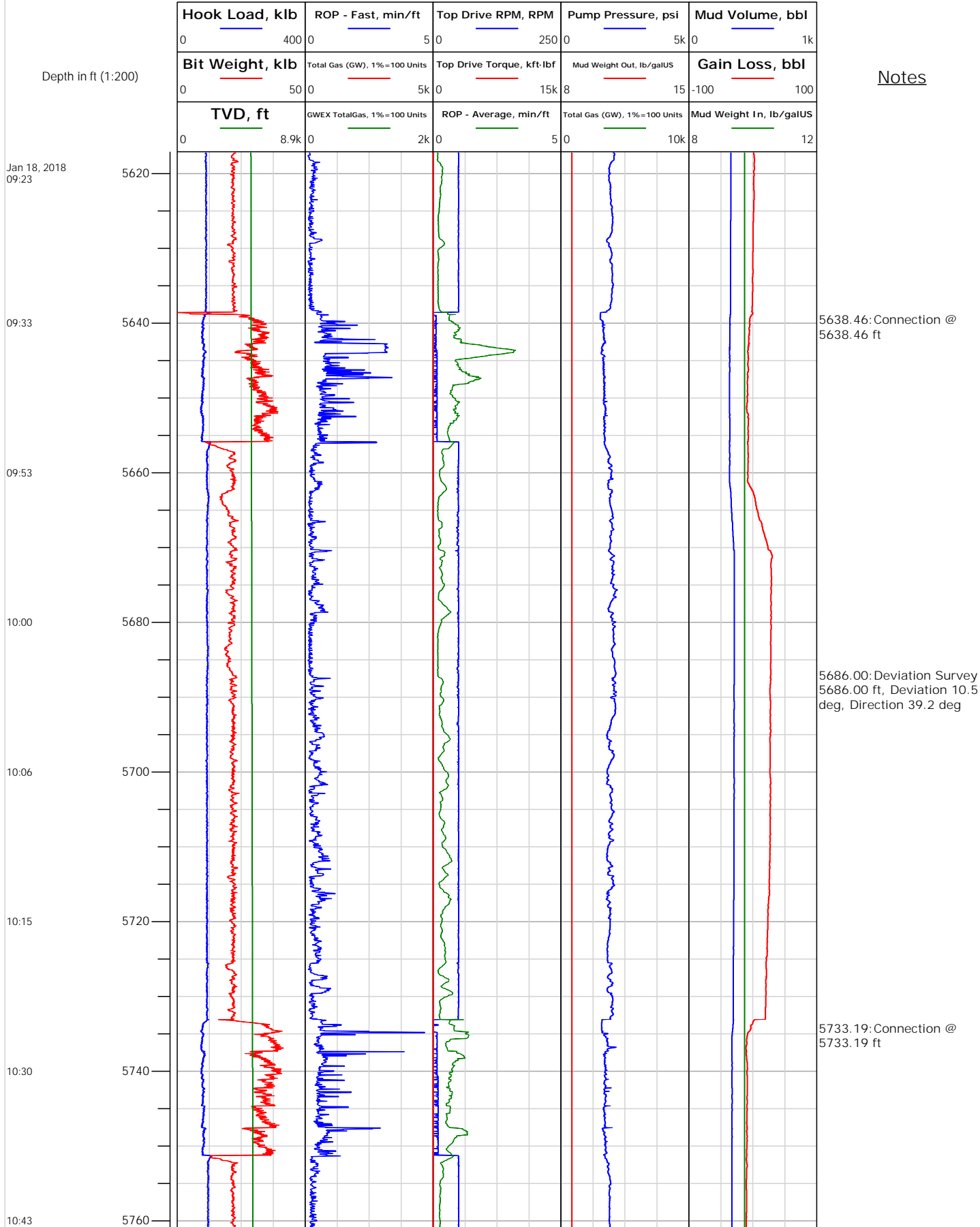
Electronic Drilling Recorder

Operator: Laramie Energy
Contractor: Helmerich & Payne Drlg Co

Well Name: Nichols 24-01E
Rig: 290

Location:

Notes





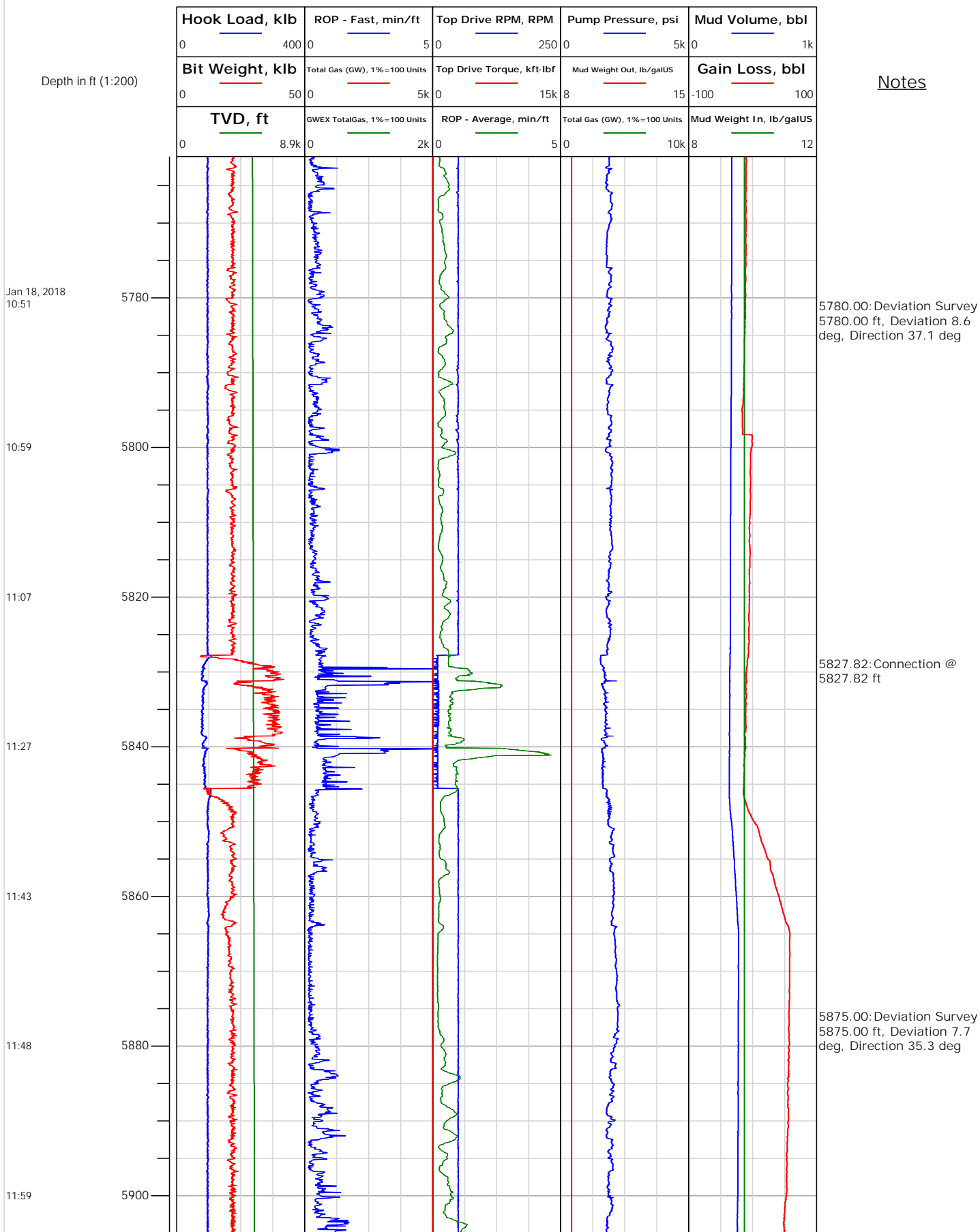
Electronic Drilling Recorder

Operator: Laramie Energy
Contractor: Helmerich & Payne Drlg Co

Well Name: Nichols 24-01E
Rig: 290

Location:

Notes





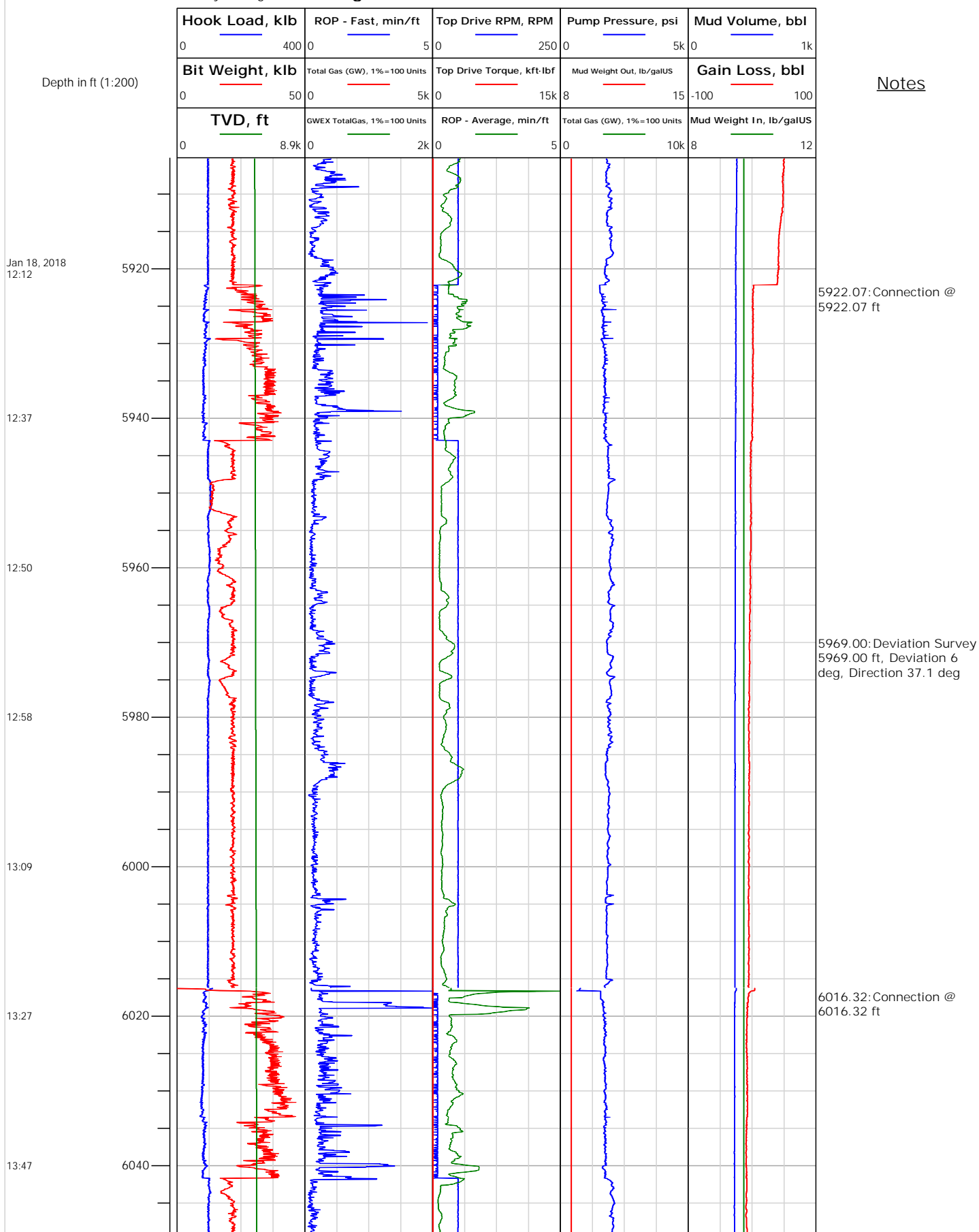
Electronic Drilling Recorder

Operator: Laramie Energy
Contractor: Helmerich & Payne Drlg Co

Well Name: Nichols 24-01E
Rig: 290

Location:

Notes





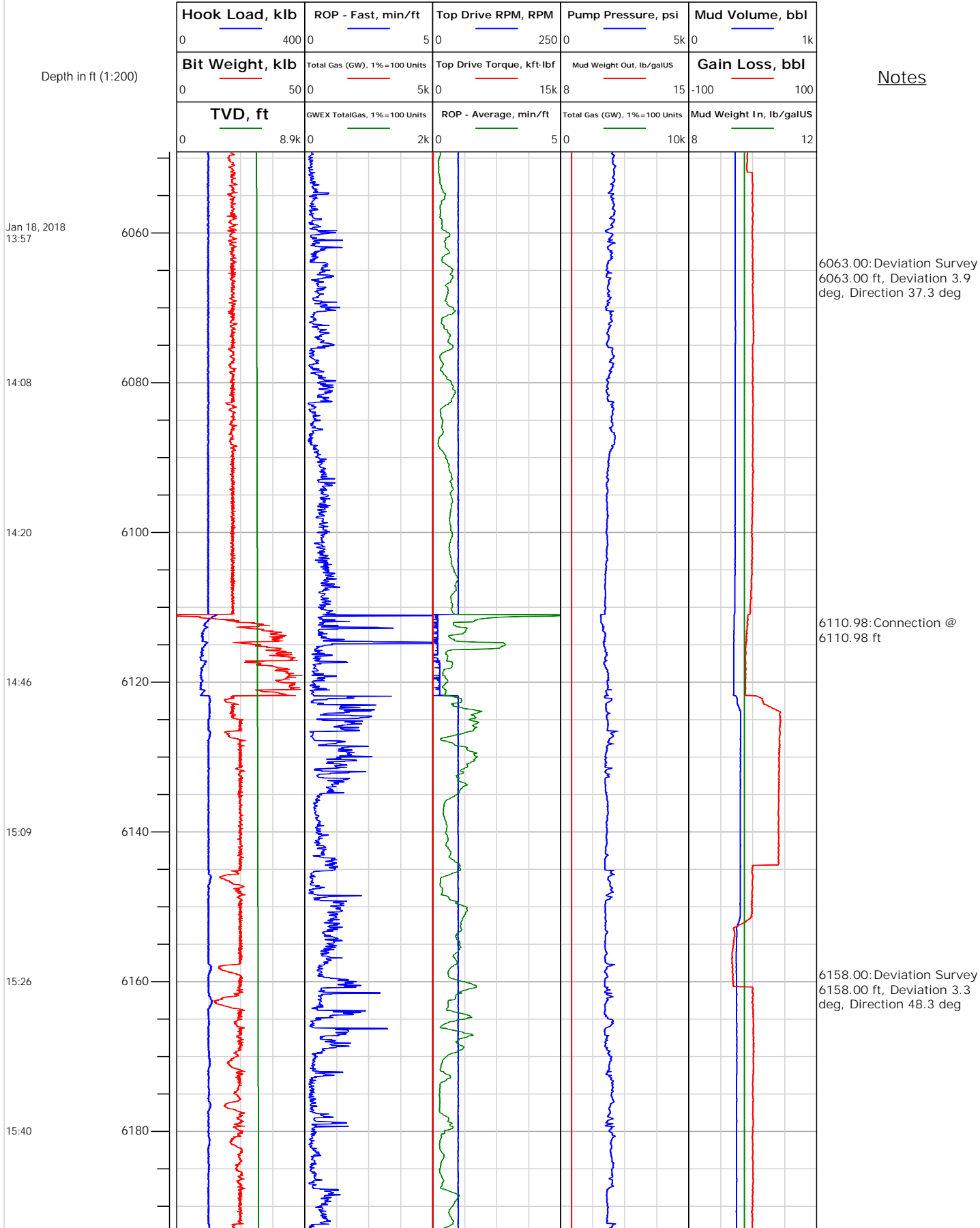
Electronic Drilling Recorder

Operator: Laramie Energy
Contractor: Helmerich & Payne Drlg Co

Well Name: Nichols 24-01E
Rig: 290

Location:

Notes





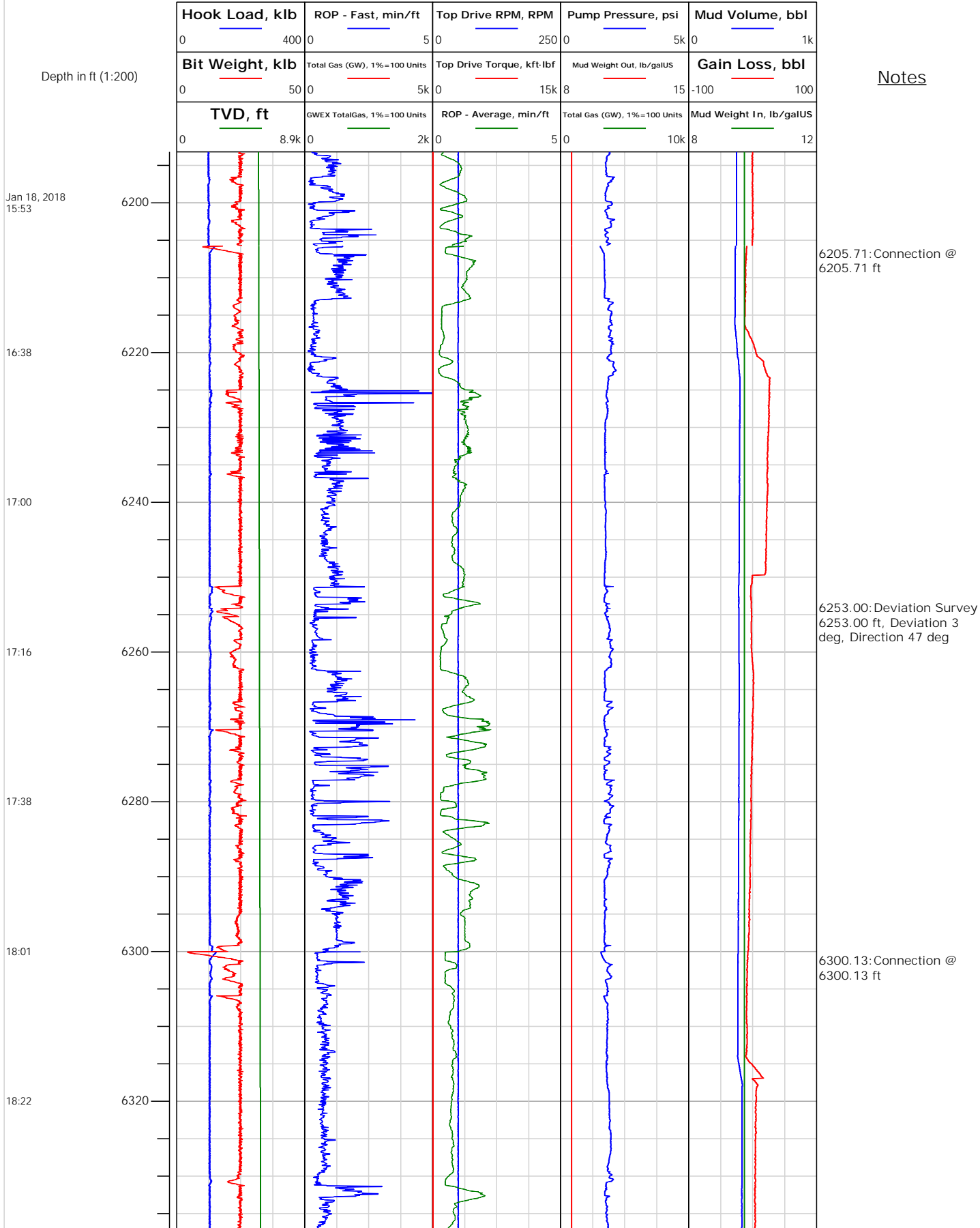
Electronic Drilling Recorder

Operator: Laramie Energy
Contractor: Helmerich & Payne Drlg Co

Well Name: Nichols 24-01E
Rig: 290

Location:

Notes





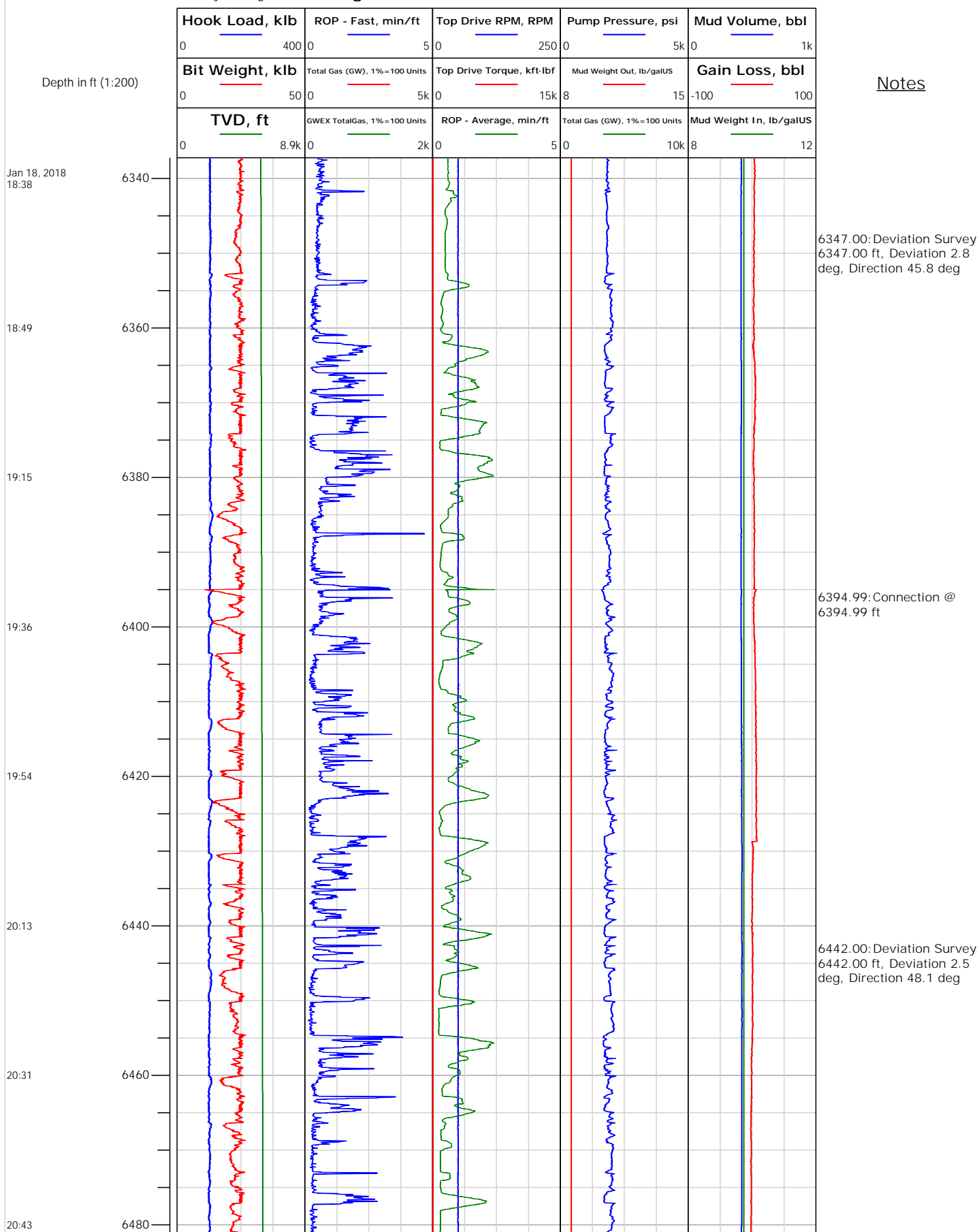
Electronic Drilling Recorder

Operator: Laramie Energy
Contractor: Helmerich & Payne Drlg Co

Well Name: Nichols 24-01E
Rig: 290

Location:

Notes





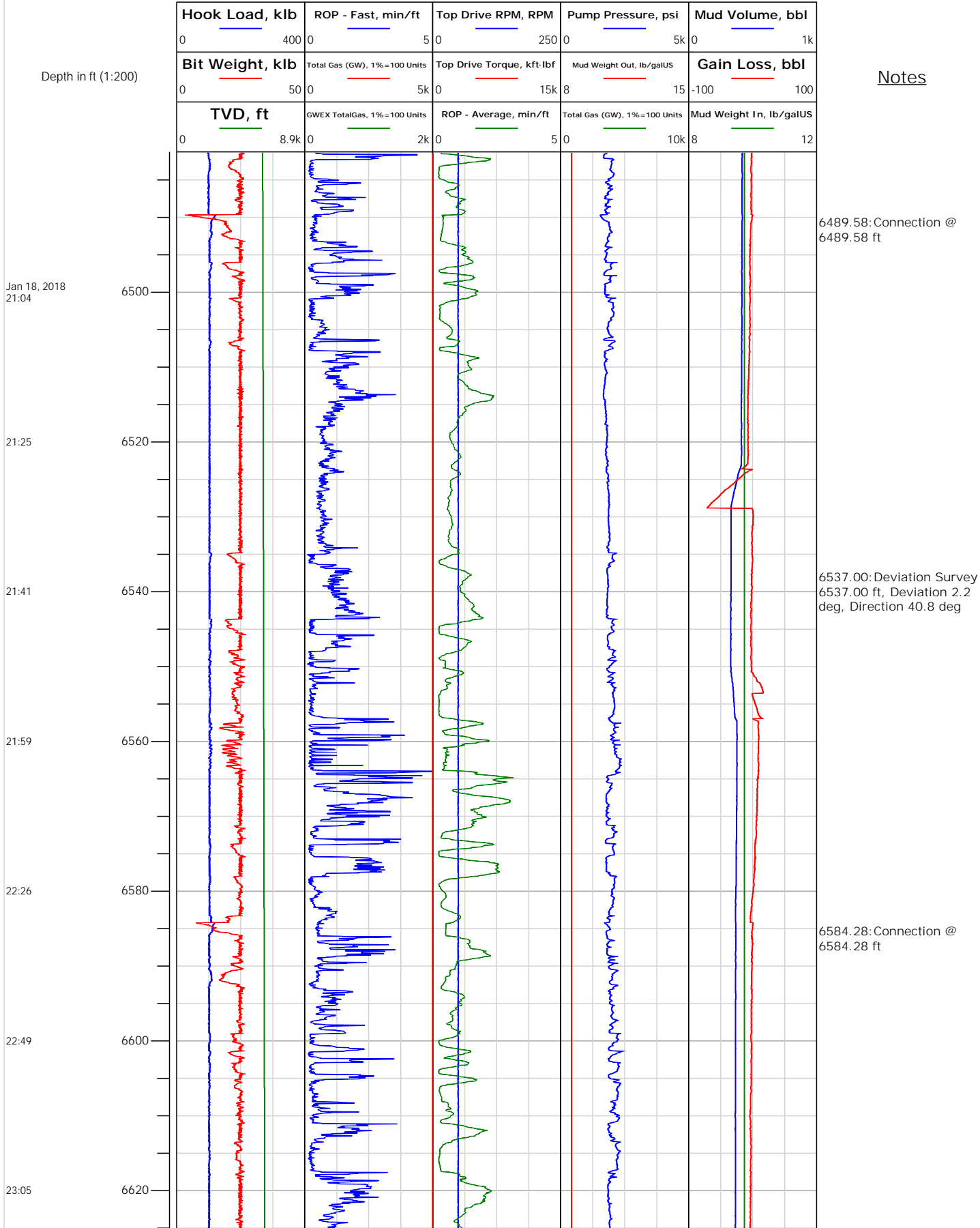
Electronic Drilling Recorder

Operator: Laramie Energy
Contractor: Helmerich & Payne Drlg Co

Well Name: Nichols 24-01E
Rig: 290

Location:

Notes





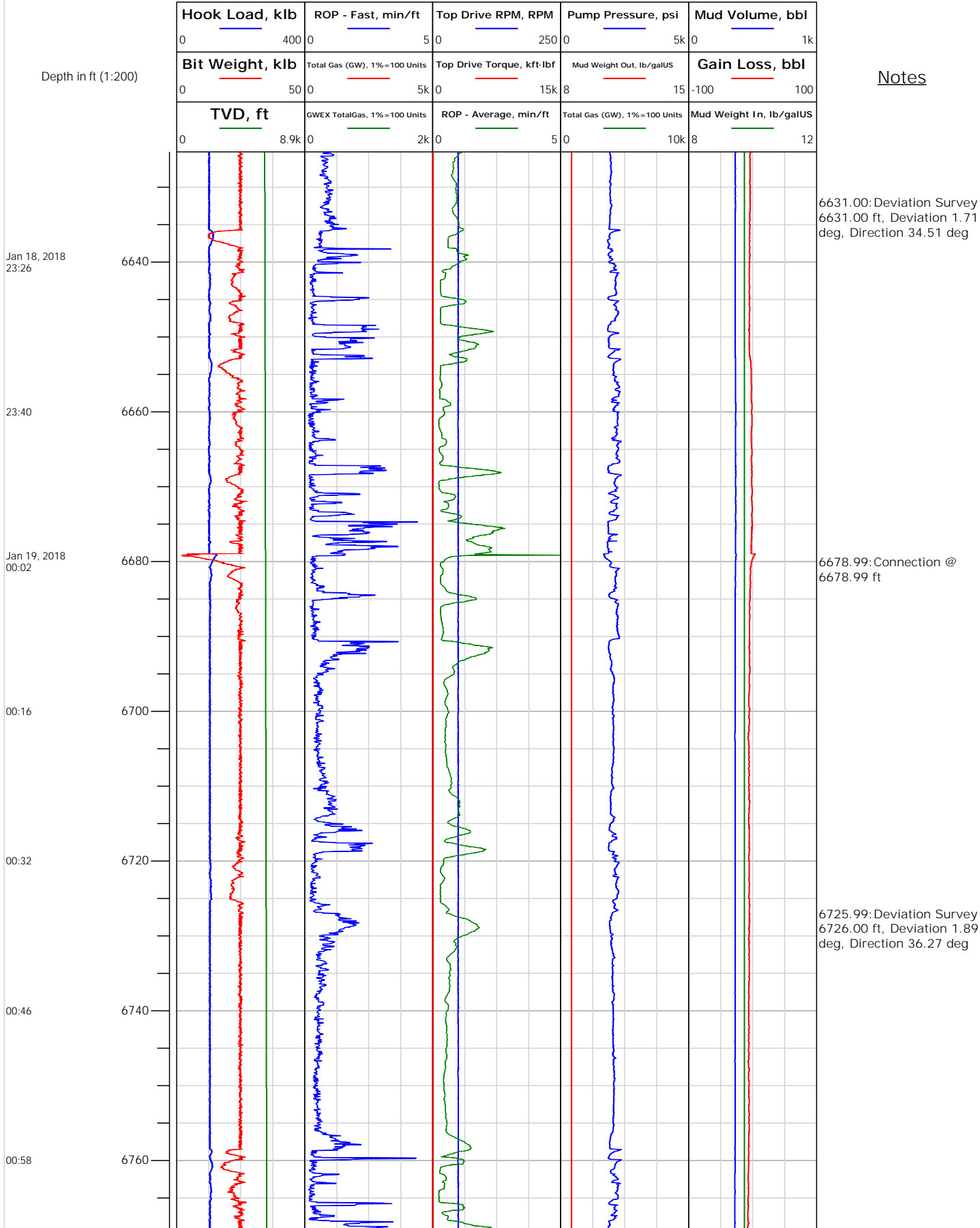
Electronic Drilling Recorder

Operator: Laramie Energy
Contractor: Helmerich & Payne Drlg Co

Well Name: Nichols 24-01E
Rig: 290

Location:

Notes





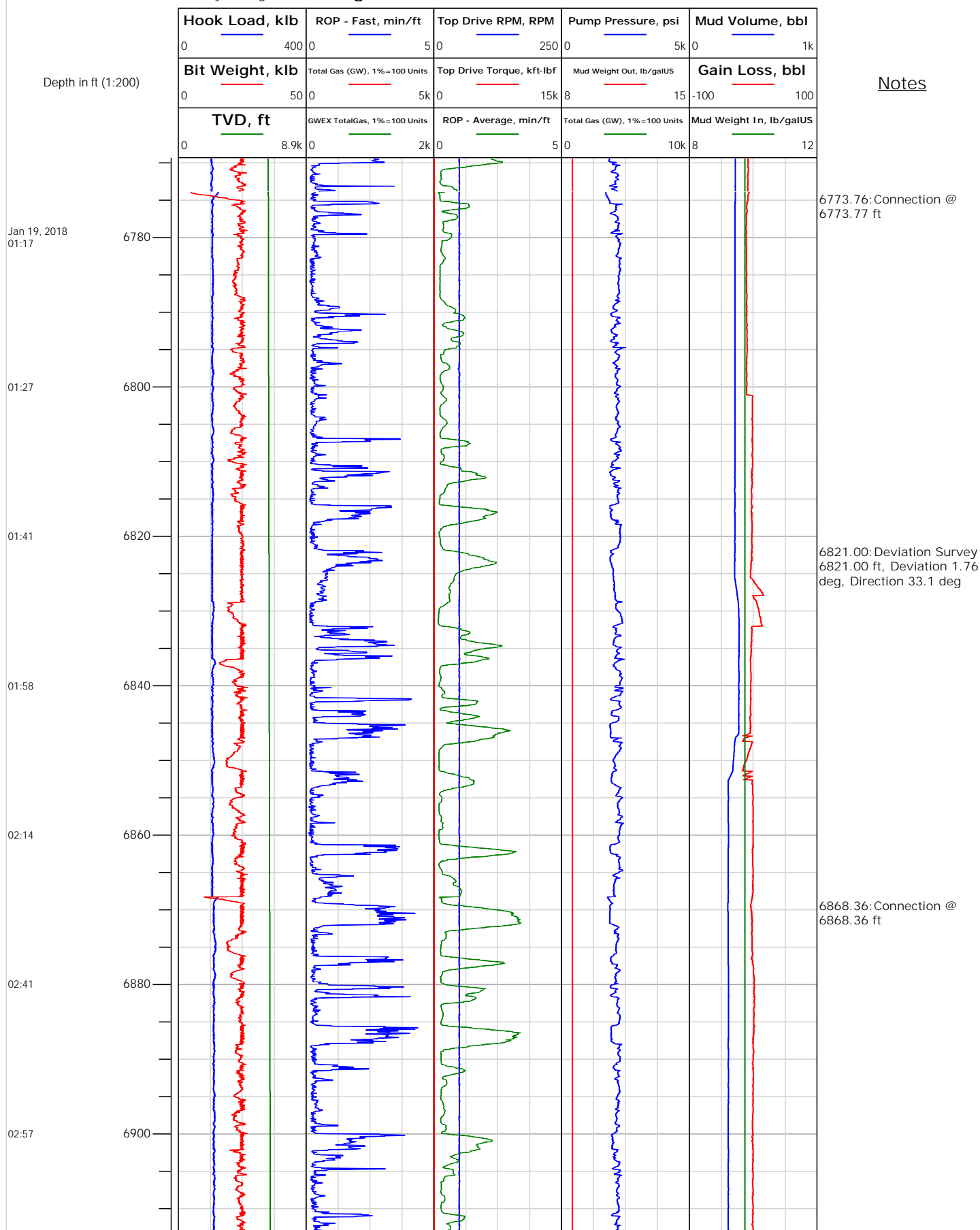
Electronic Drilling Recorder

Operator: Laramie Energy
Contractor: Helmerich & Payne Drlg Co

Well Name: Nichols 24-01E
Rig: 290

Location:

Notes





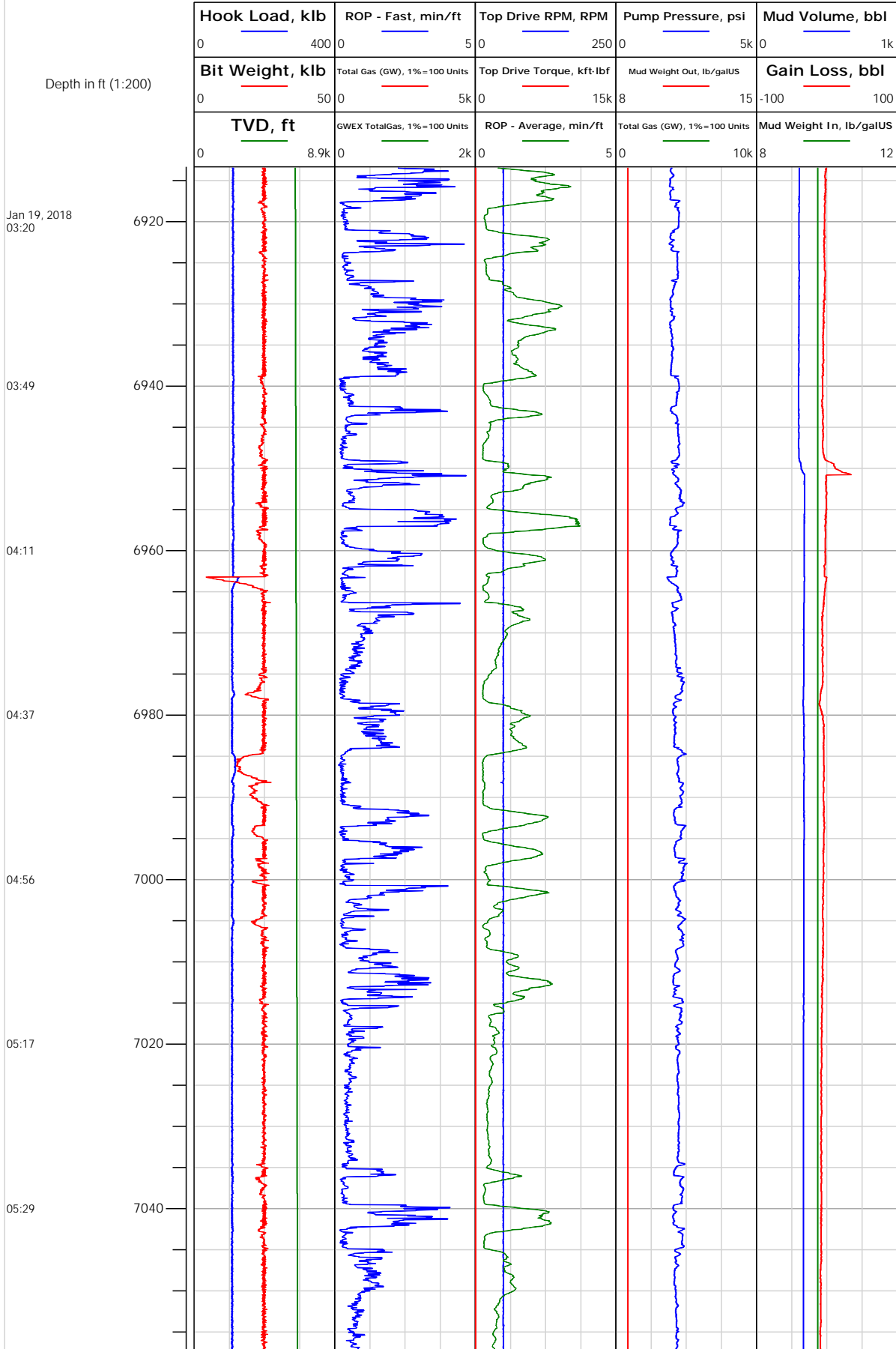
Electronic Drilling Recorder

Operator: Laramie Energy
Contractor: Helmerich & Payne Drlg Co

Well Name: Nichols 24-01E
Rig: 290

Location:

Notes



6914.99: Deviation Survey
6915.00 ft, Deviation 1.58 deg, Direction 23.17 deg

7010.00: Deviation Survey
7010.00 ft, Deviation 1.14 deg, Direction 10.25 deg



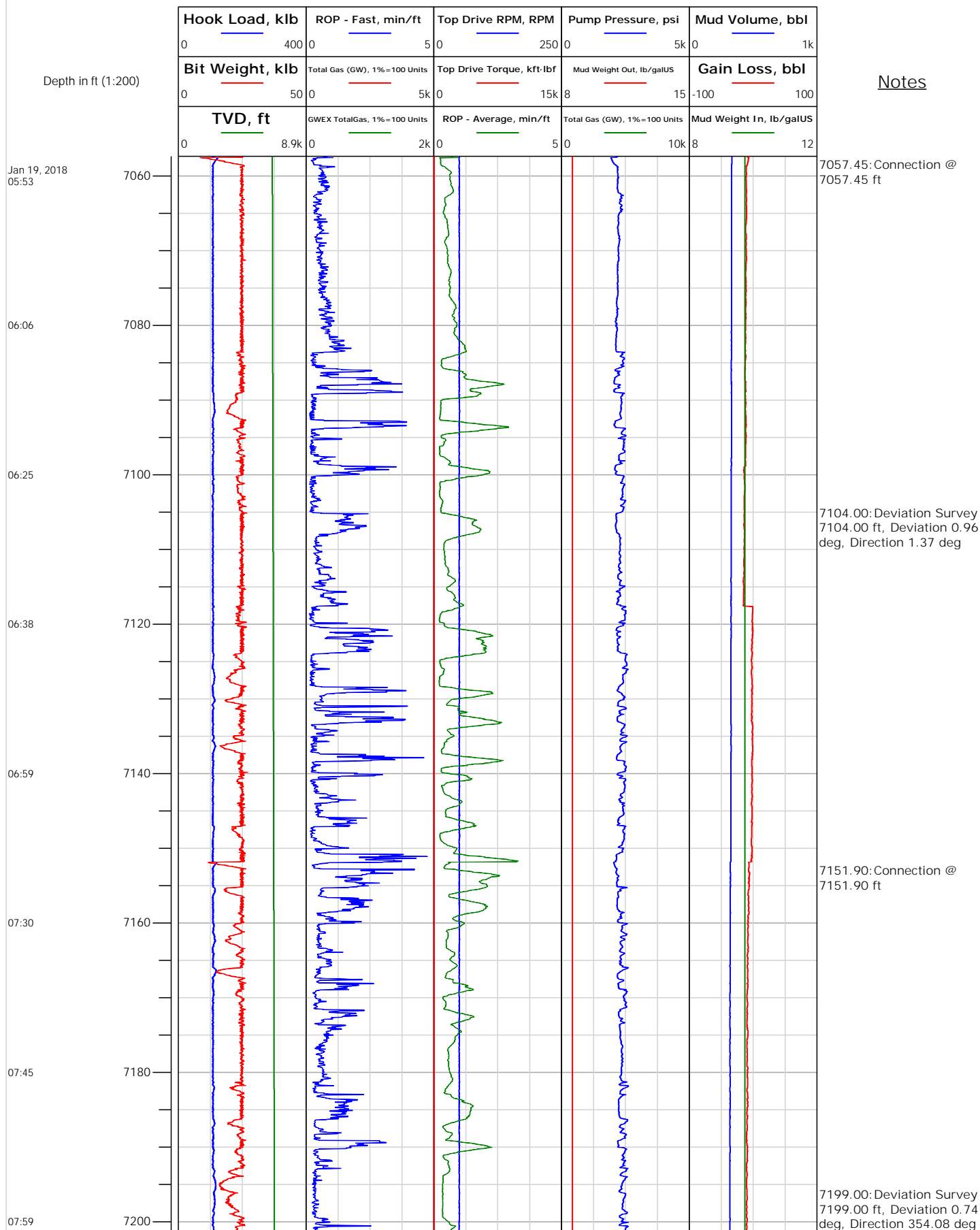
Electronic Drilling Recorder

Operator: Laramie Energy
Contractor: Helmerich & Payne Drlg Co

Well Name: Nichols 24-01E
Rig: 290

Location:

Notes





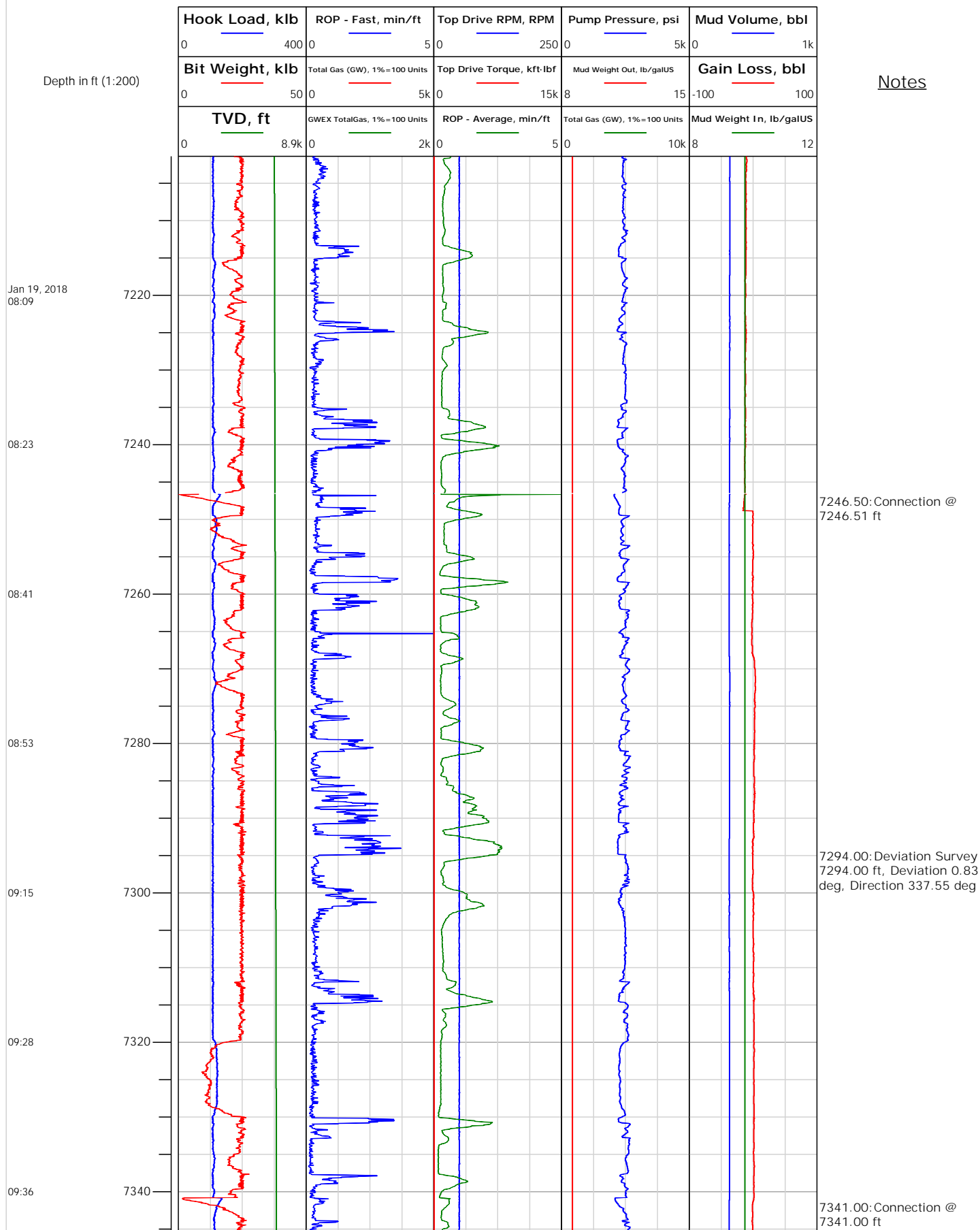
Electronic Drilling Recorder

Operator: Laramie Energy
Contractor: Helmerich & Payne Drlg Co

Well Name: Nichols 24-01E
Rig: 290

Location:

Notes





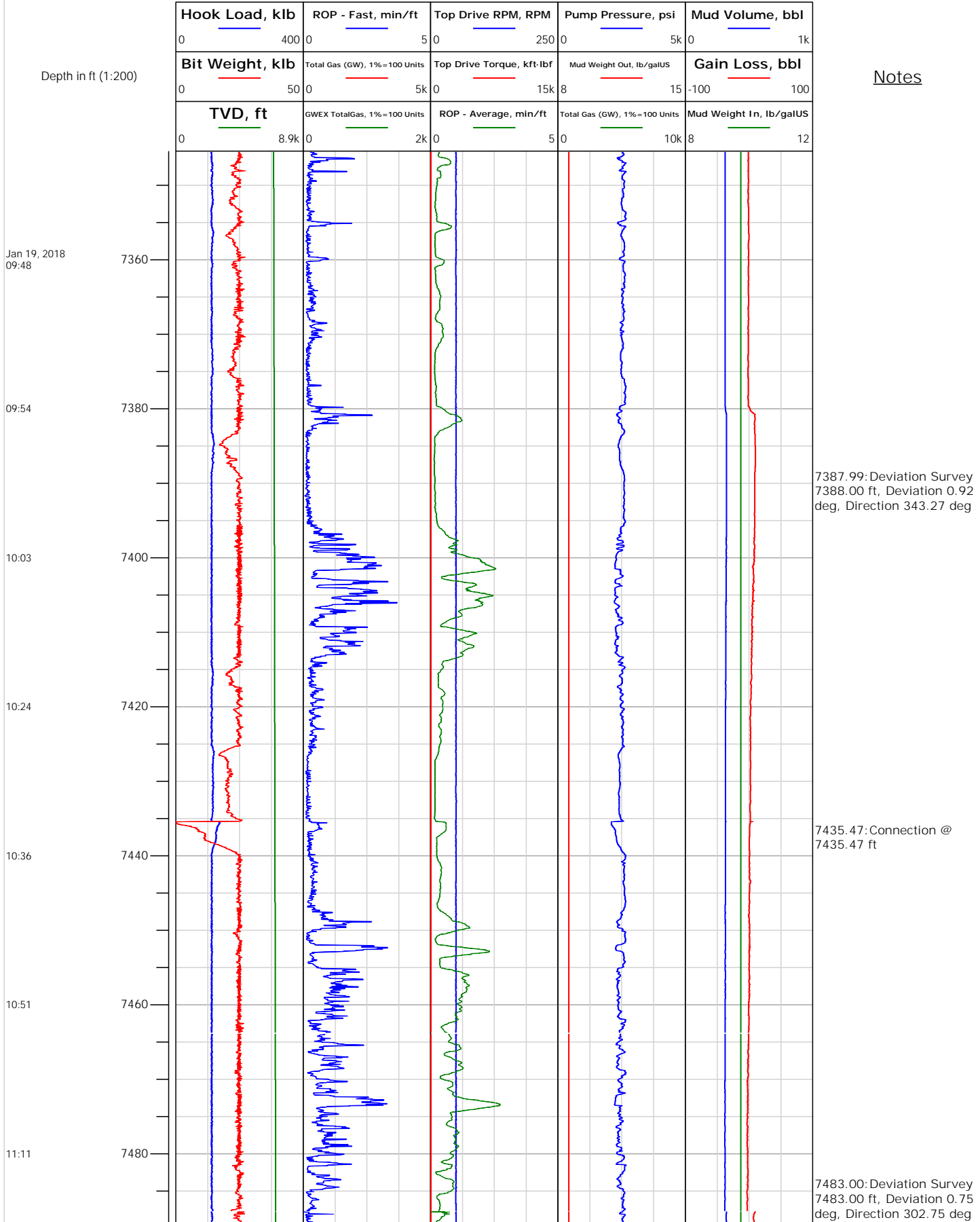
Electronic Drilling Recorder

Operator: Laramie Energy
Contractor: Helmerich & Payne Drlg Co

Well Name: Nichols 24-01E
Rig: 290

Location:

Notes





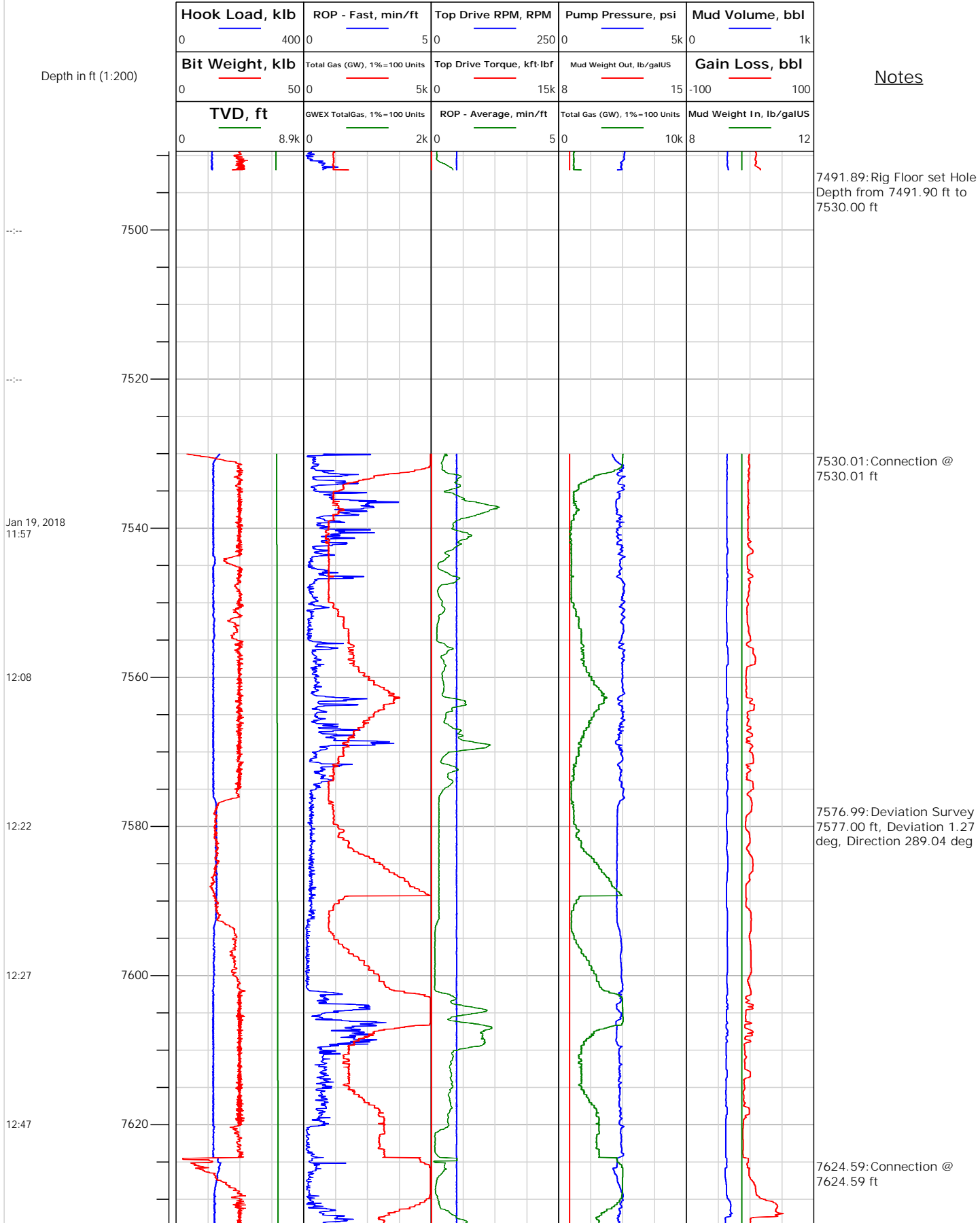
Electronic Drilling Recorder

Operator: Laramie Energy
Contractor: Helmerich & Payne Drlg Co

Well Name: Nichols 24-01E
Rig: 290

Location:

Notes





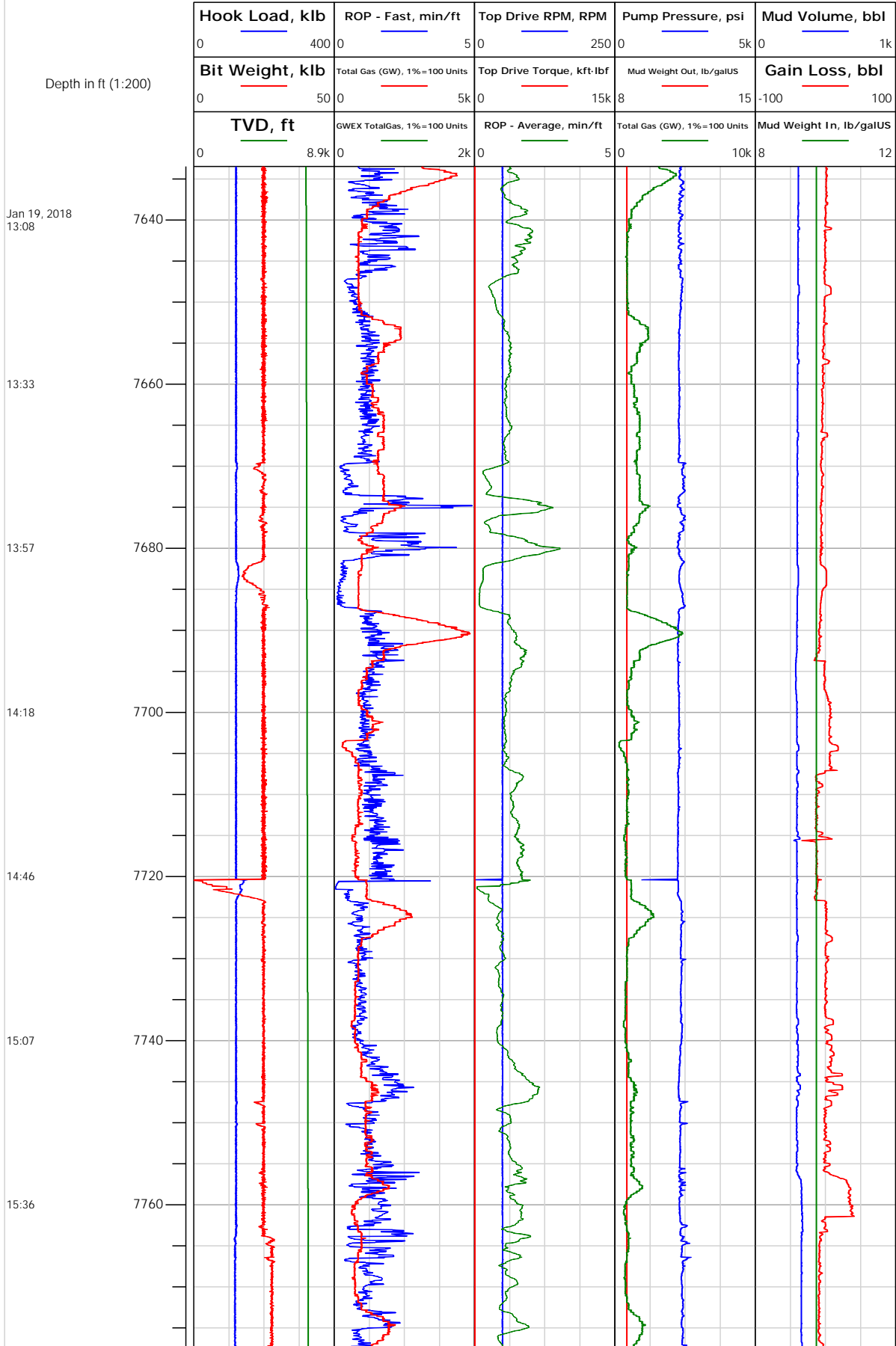
Electronic Drilling Recorder

Operator: Laramie Energy
Contractor: Helmerich & Payne Drlg Co

Well Name: Nichols 24-01E
Rig: 290

Location:

Notes





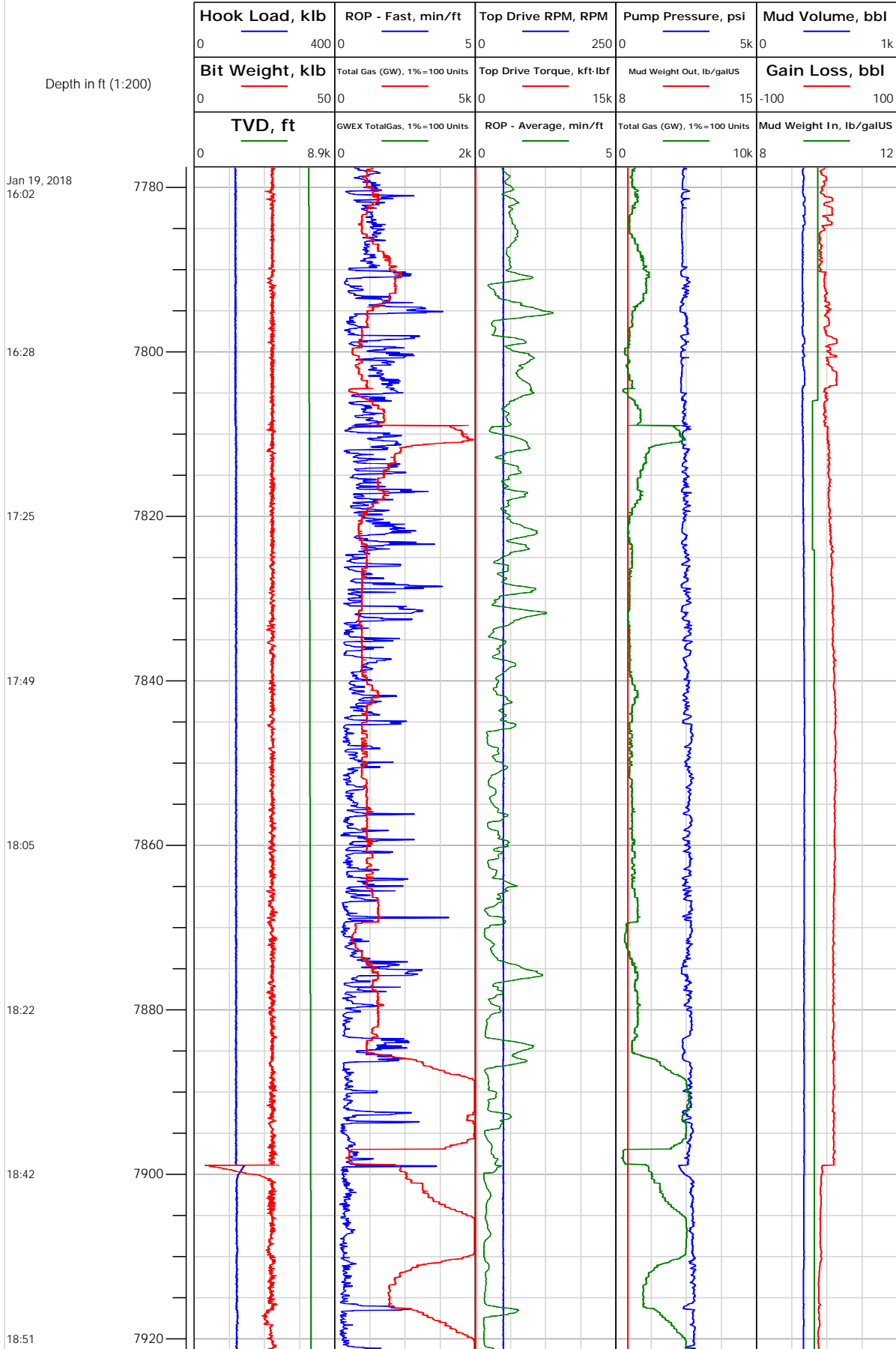
Electronic Drilling Recorder

Operator: Laramie Energy
Contractor: Helmerich & Payne Drlg Co

Well Name: Nichols 24-01E
Rig: 290

Location:

Notes





Electronic Drilling Recorder

Operator: Laramie Energy
Contractor: Helmerich & Payne Drlg Co

Well Name: Nichols 24-01E
Rig: 290

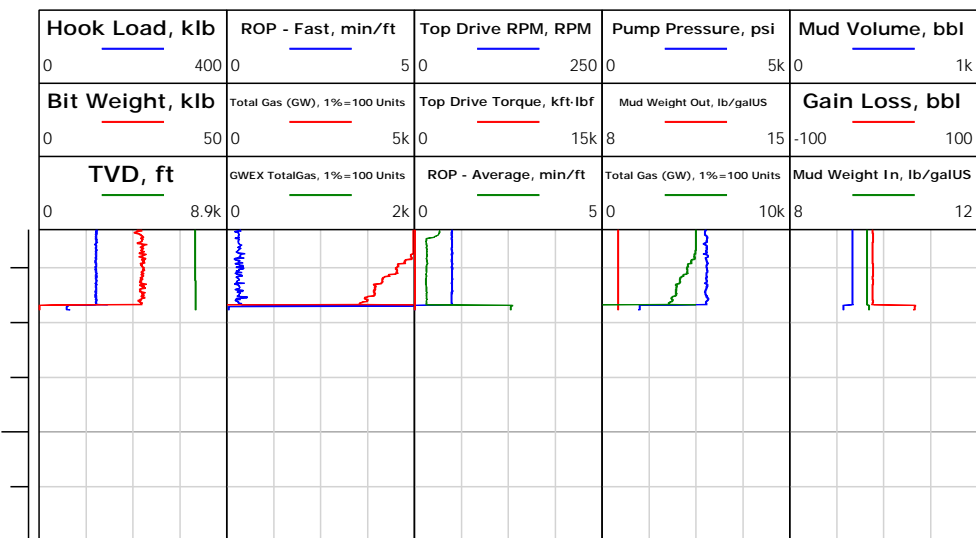
Location:

Depth in ft (1:200)

Notes

Jan 20, 2018
08:35

7940



7928.35: Connection @
 7928.36 ft
 7928.35: Connection @
 7928.36 ft
 7928.36: Rig Floor set Bit
 Position from 3118.45 ft to
 4025.00 ft
 7928.89: Rig Floor set Bit
 Position from 7928.90 ft to
 7887.67 ft