



Electronic Drilling Recorder

Operator: Laramie Energy
Contractor: Helmerich & Payne Drlg Co

Well Name: Rig Mob to BCU 13-01 pad
Rig: 290

Location:

Depth in ft (1:200)

Jun 1, 2018
18:02

18:02

18:02

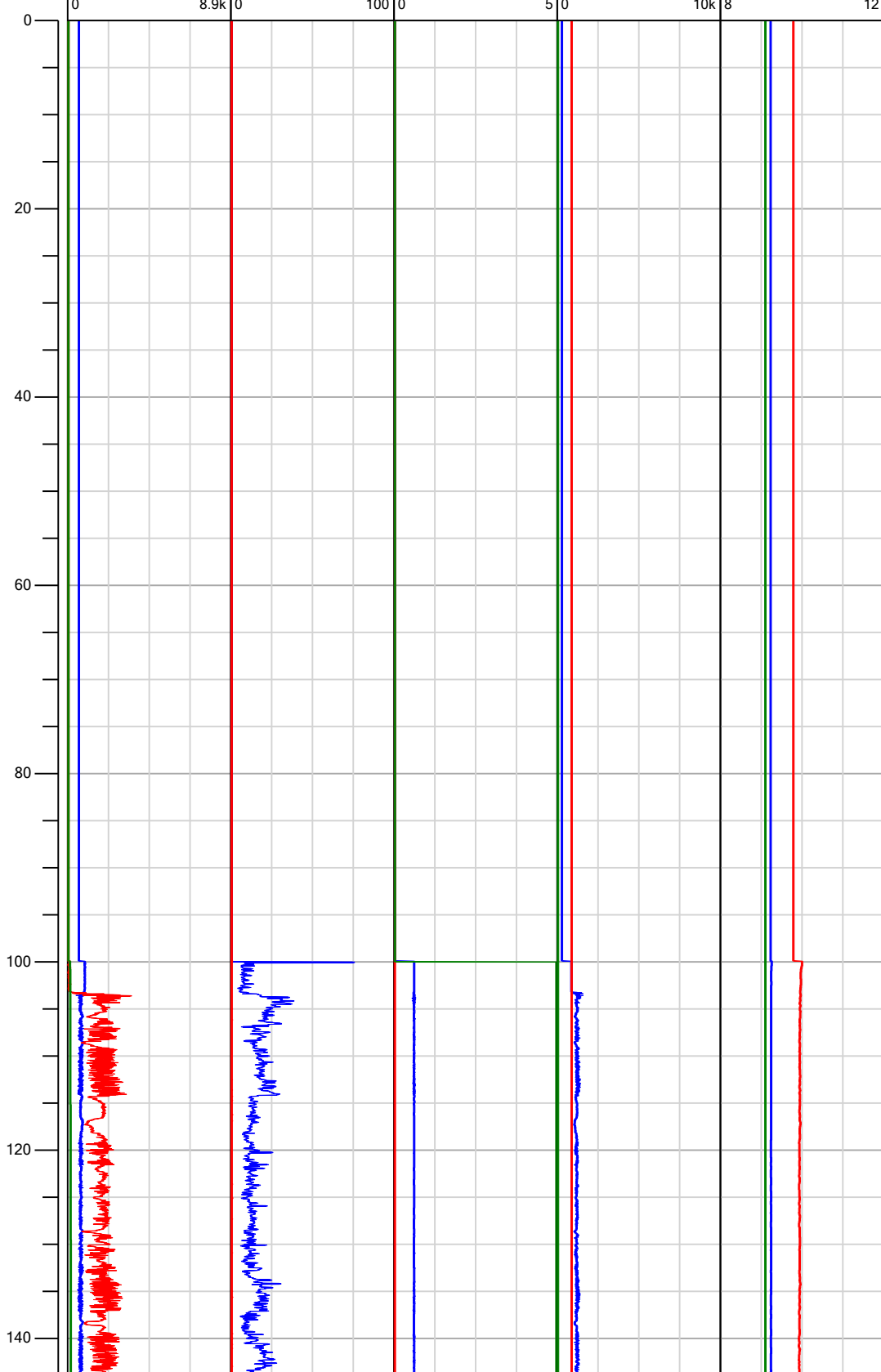
18:02

18:02

Jun 2, 2018
12:29

19:22

19:29



Notes

0.00:Rig Floor set Bit
Position from 0.00 ft to
100.00 ft
0.00:Rig Floor set Hole
Depth from 0.00 ft to
100.00 ft

100.00:Rig Floor set Bit
Position from 61.53 ft to
78.66 ft
100.00:Rig Floor set Bit
Position from 100.00 ft to
0.00 ft

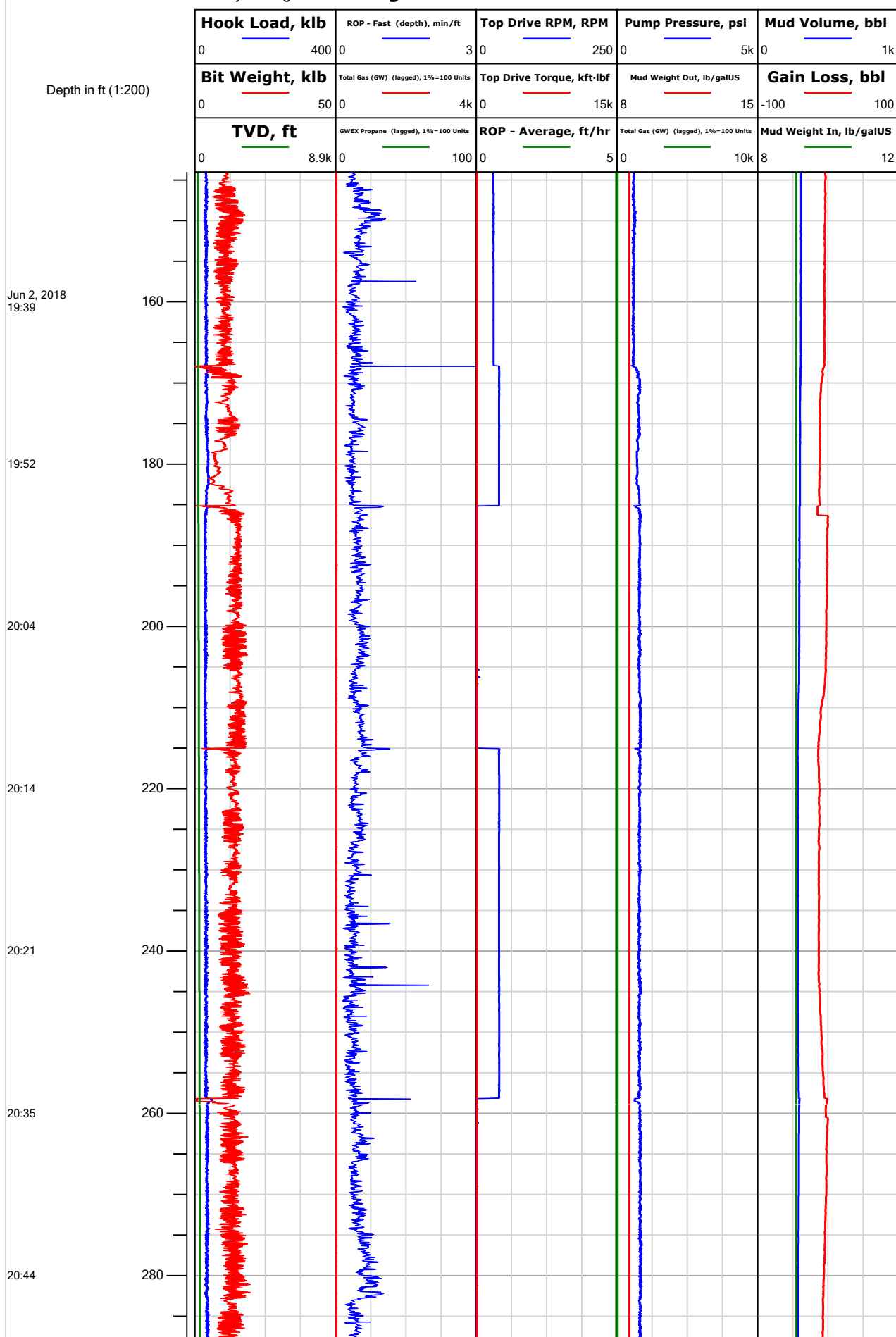


Electronic Drilling Recorder

Operator: Laramie Energy
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Well Name: Rig Mob to BCU 13-01 pad
Rig: 290

Location:



Notes

200.00: Deviation Survey
 200.00 ft, Deviation 1 deg,
 Direction 194.1 deg

259.85: Rig Floor set Hole
 Depth from 259.65 ft to
 259.00 ft

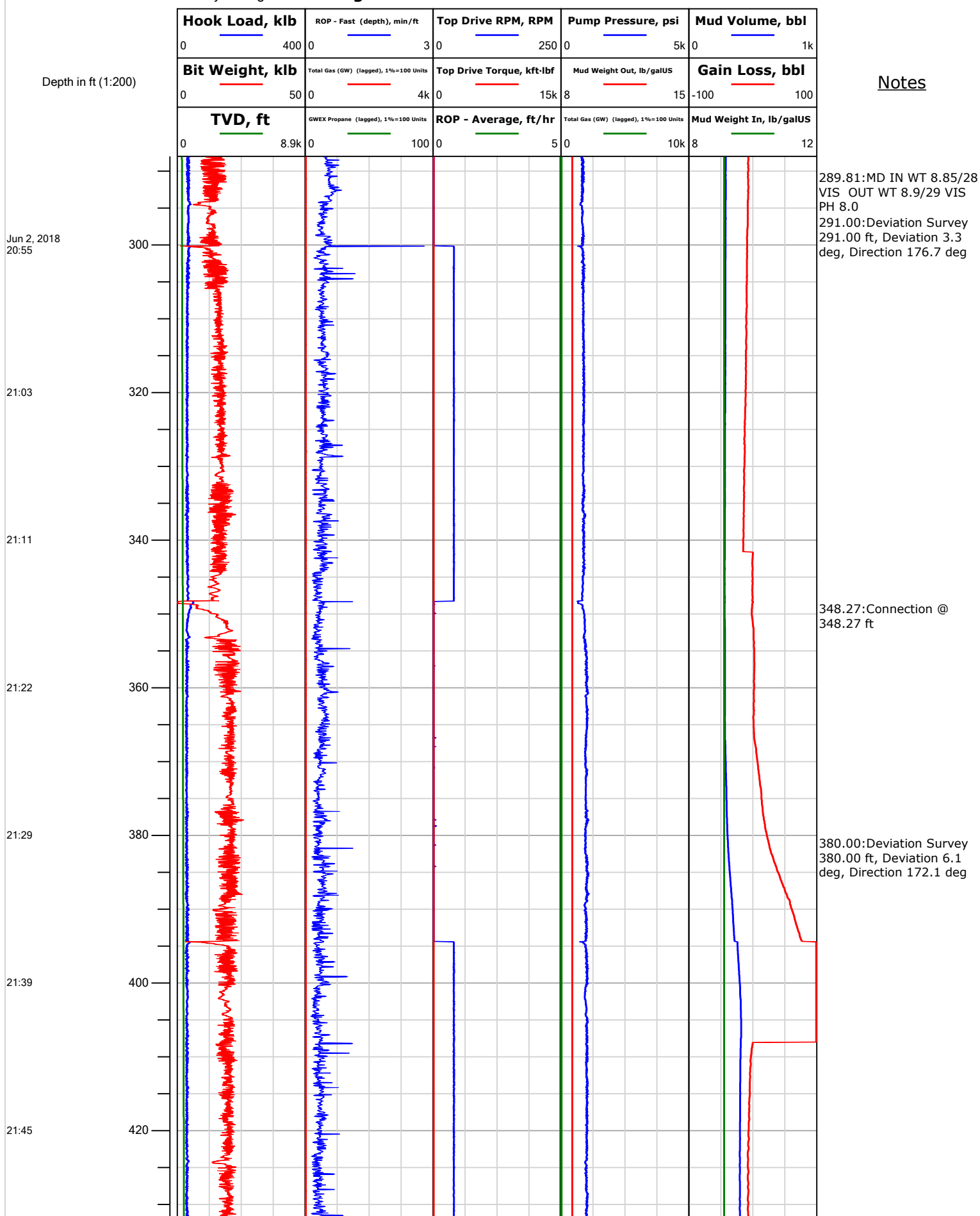


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Rig: 290

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Operator: Laramie Energy
Contractor: Helmerich & Payne Drlg Co

Well Name: Rig Mob to BCU 13-01 pad
Rig: 290

Location:

Depth in ft (1:200)

Notes

Jun 2, 2018
21:56

22:02

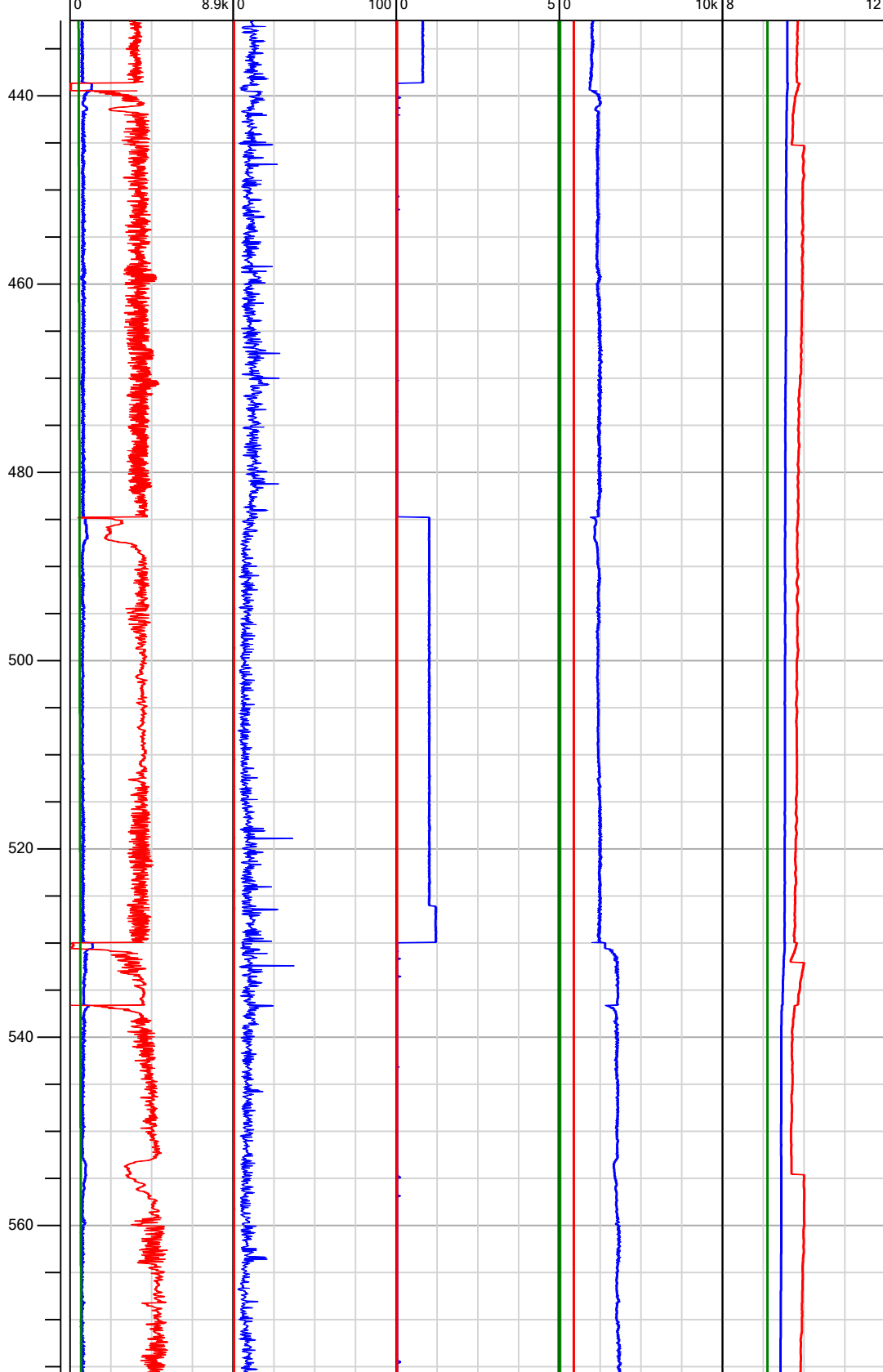
22:09

22:17

22:21

22:33

22:38



438.54:Connection @
438.54 ft

470.00:Deviation Survey
470.00 ft, Deviation 8.9
deg, Direction 164.6 deg

490.27:MD IN WT 9.25/31
VIS OUT WT 9.35/32 VIS
PH 8.0

560.00:Deviation Survey
560.00 ft, Deviation 12.1
deg, Direction 160 deg



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Rig: 290

Location:

Depth in ft (1:200)

Notes

Jun 2, 2018
22:44

22:48

22:52

23:01

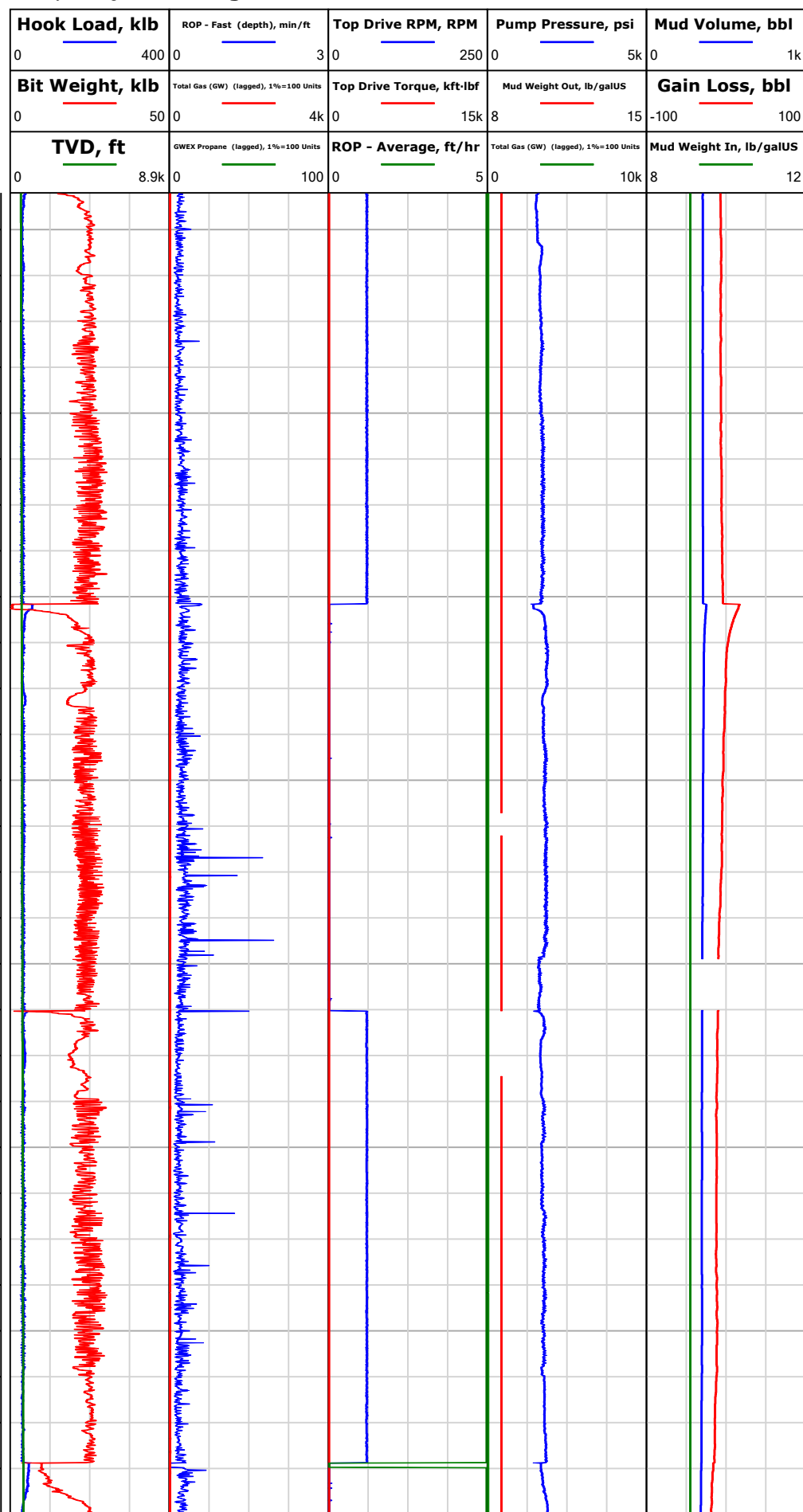
23:06

23:12

23:16

23:32

580
600
620
640
660
680
700
720



655.00: Deviation Survey
 655.00 ft, Deviation 16
 deg, Direction 156.5 deg

714.50: Rig Floor set Hole
 Depth from 714.50 ft to
 715.00 ft

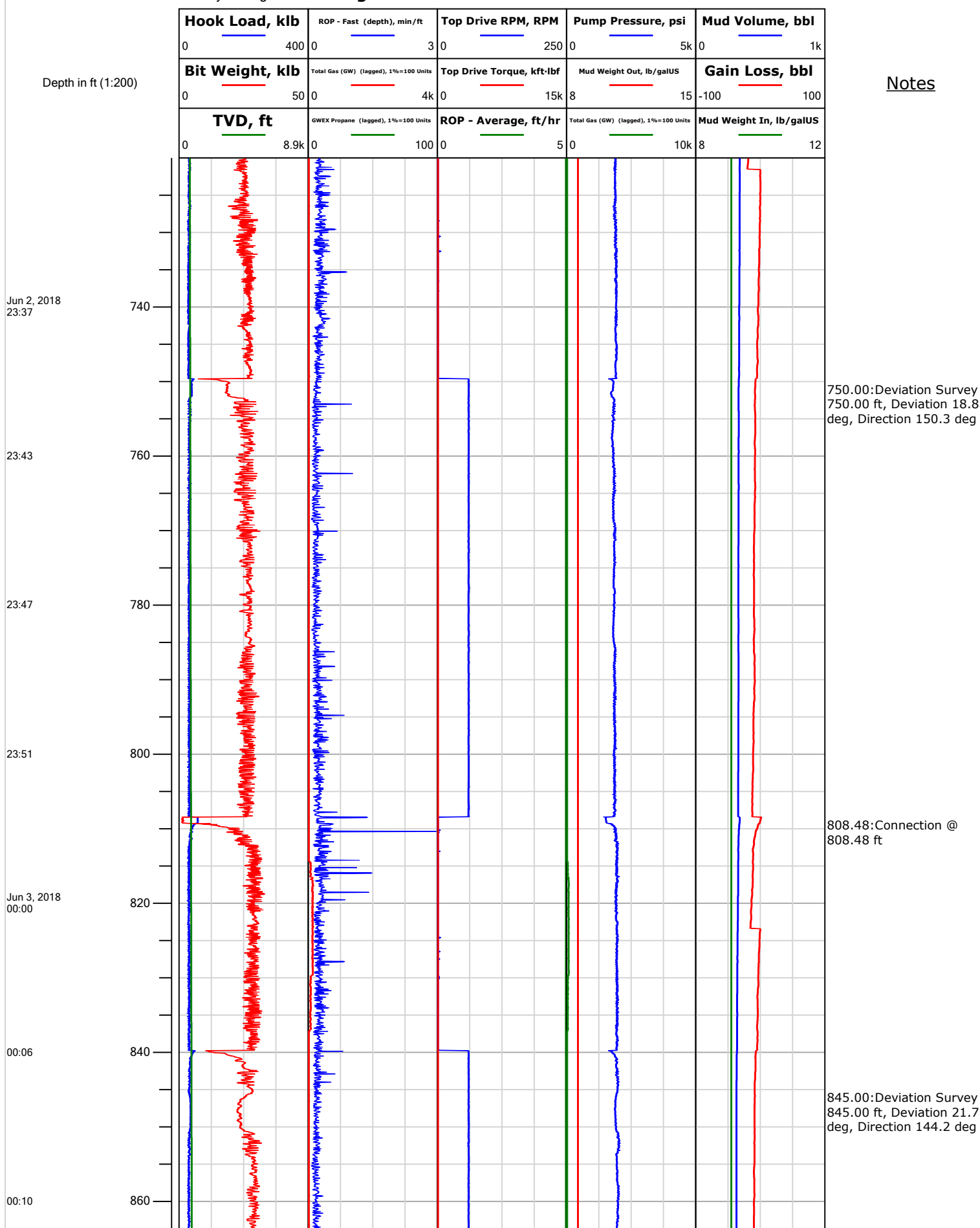


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Rig: 290

Location:



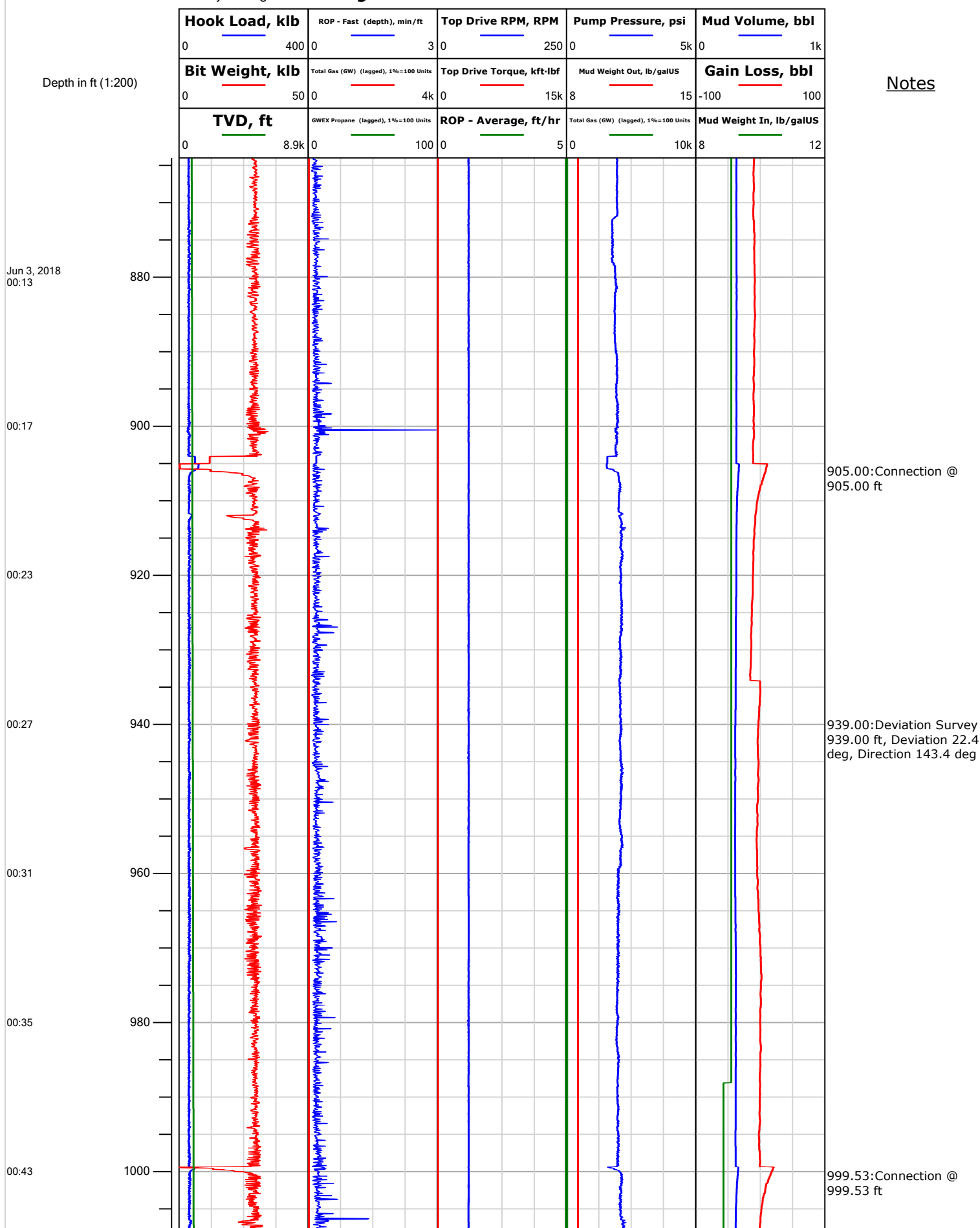


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Operator: Laramie Energy
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Well Name: Rig Mob to BCU 13-01 pad
Rig: 290

Location:



Notes

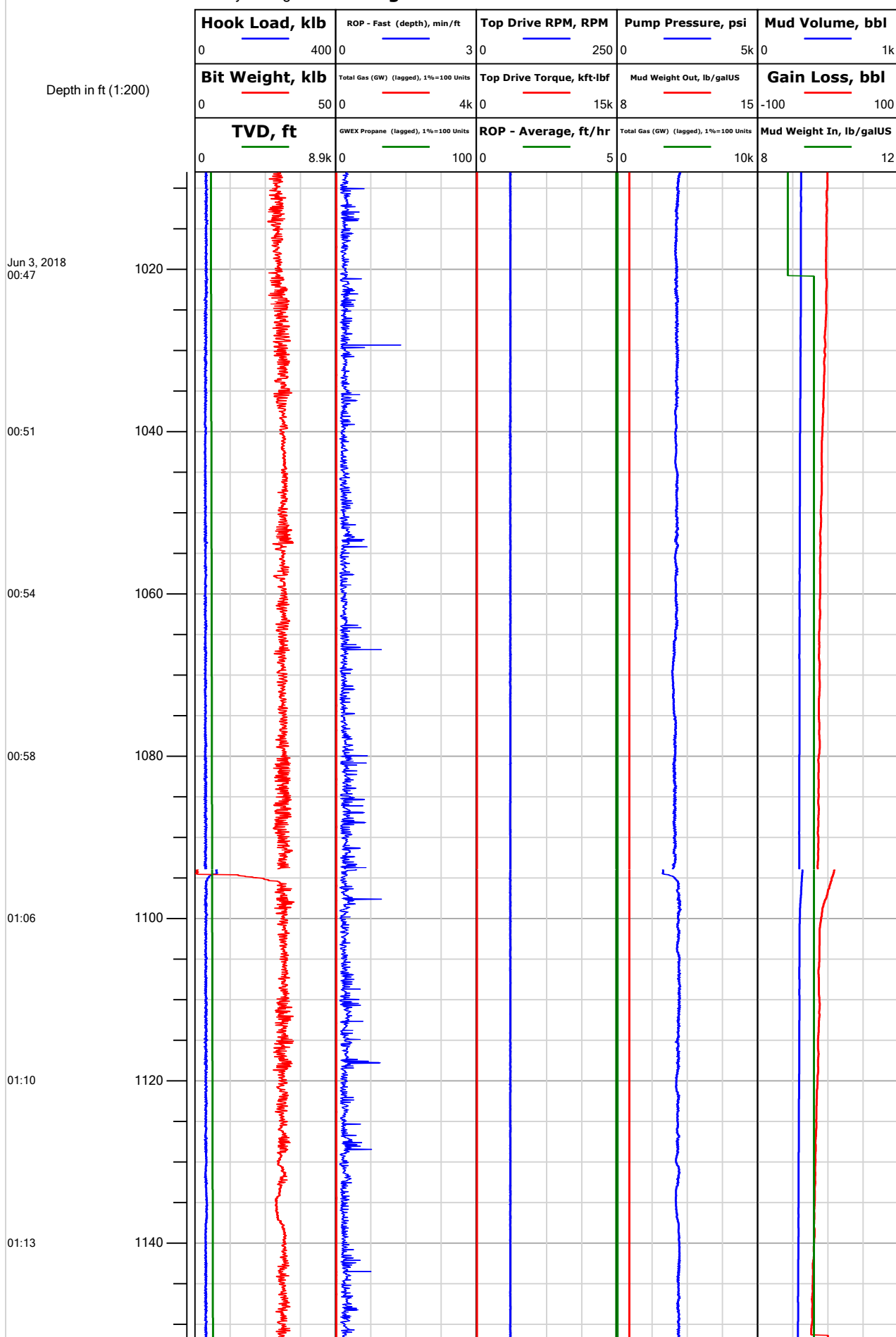


Electronic Drilling Recorder

Operator: Laramie Energy
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Well Name: Rig Mob to BCU 13-01 pad
Rig: 290

Location:



Notes

1034.00: Deviation Survey
 1034.00 ft, Deviation 23.6 deg, Direction 141.6 deg

1094.01: Connection @
 1094.01 ft

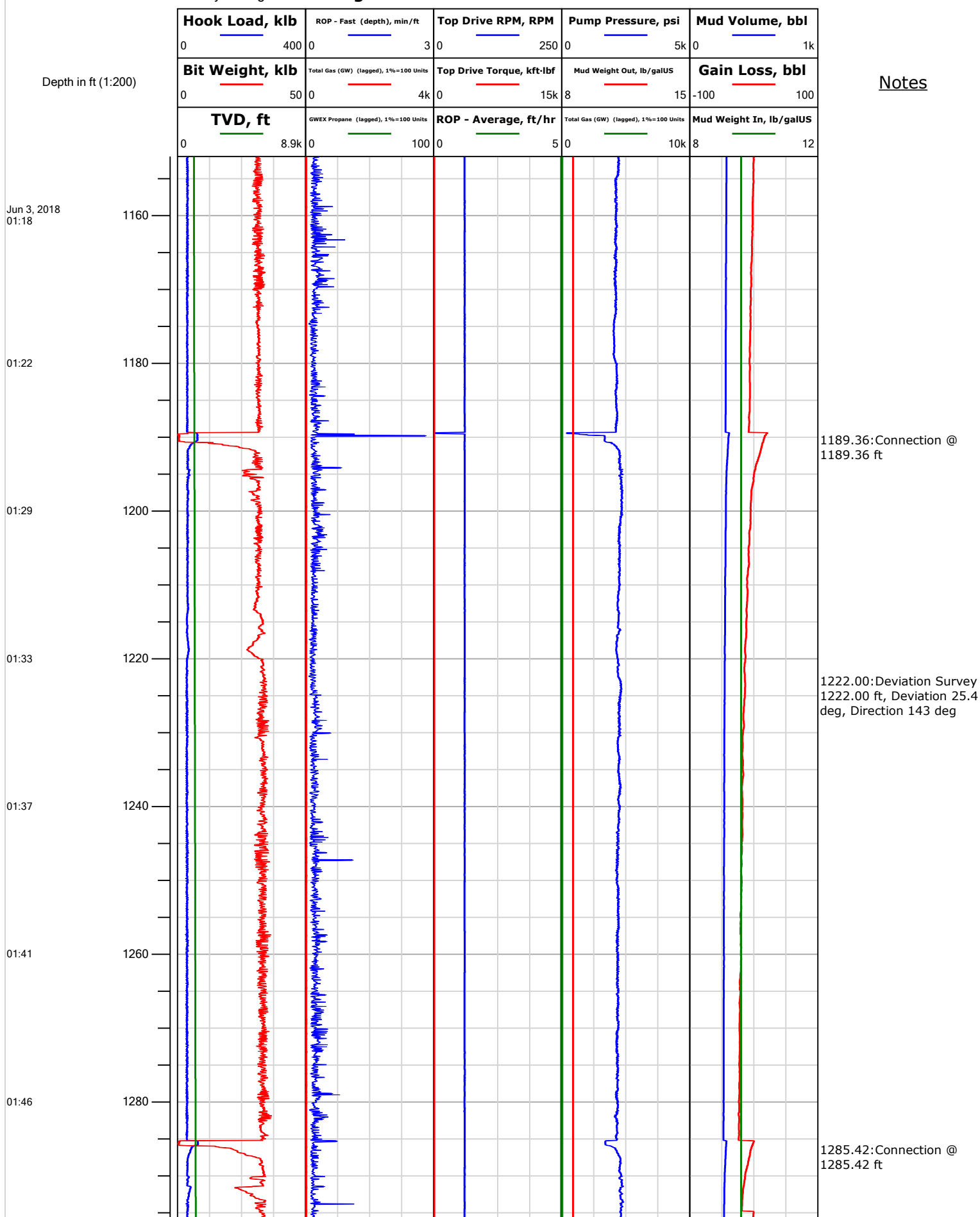


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Operator: Laramie Energy
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Well Name: Rig Mob to BCU 13-01 pad
Rig: 290

Location:



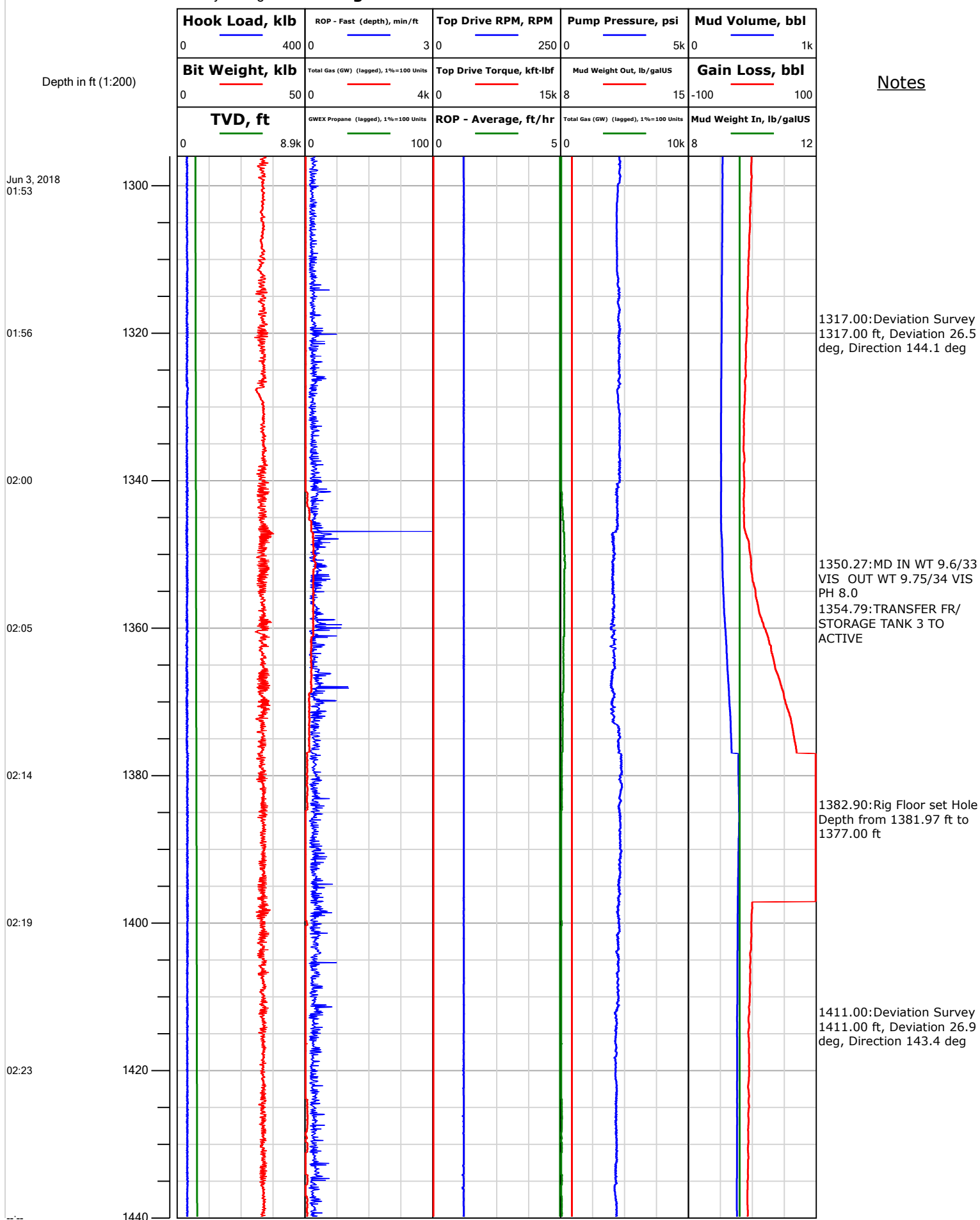


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Rig: 290

Location:



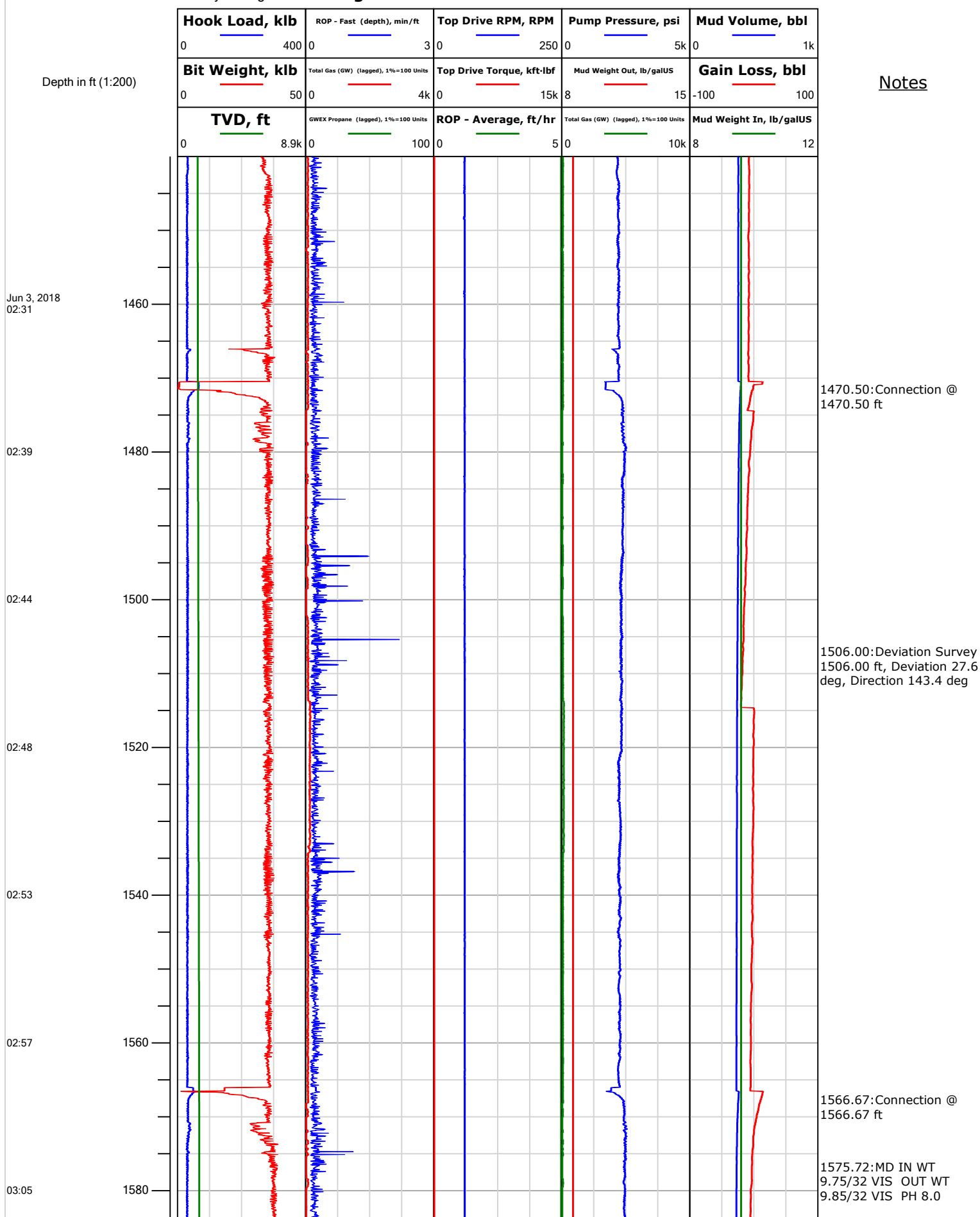


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Operator: Laramie Energy
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Rig: 290

Location:



Notes

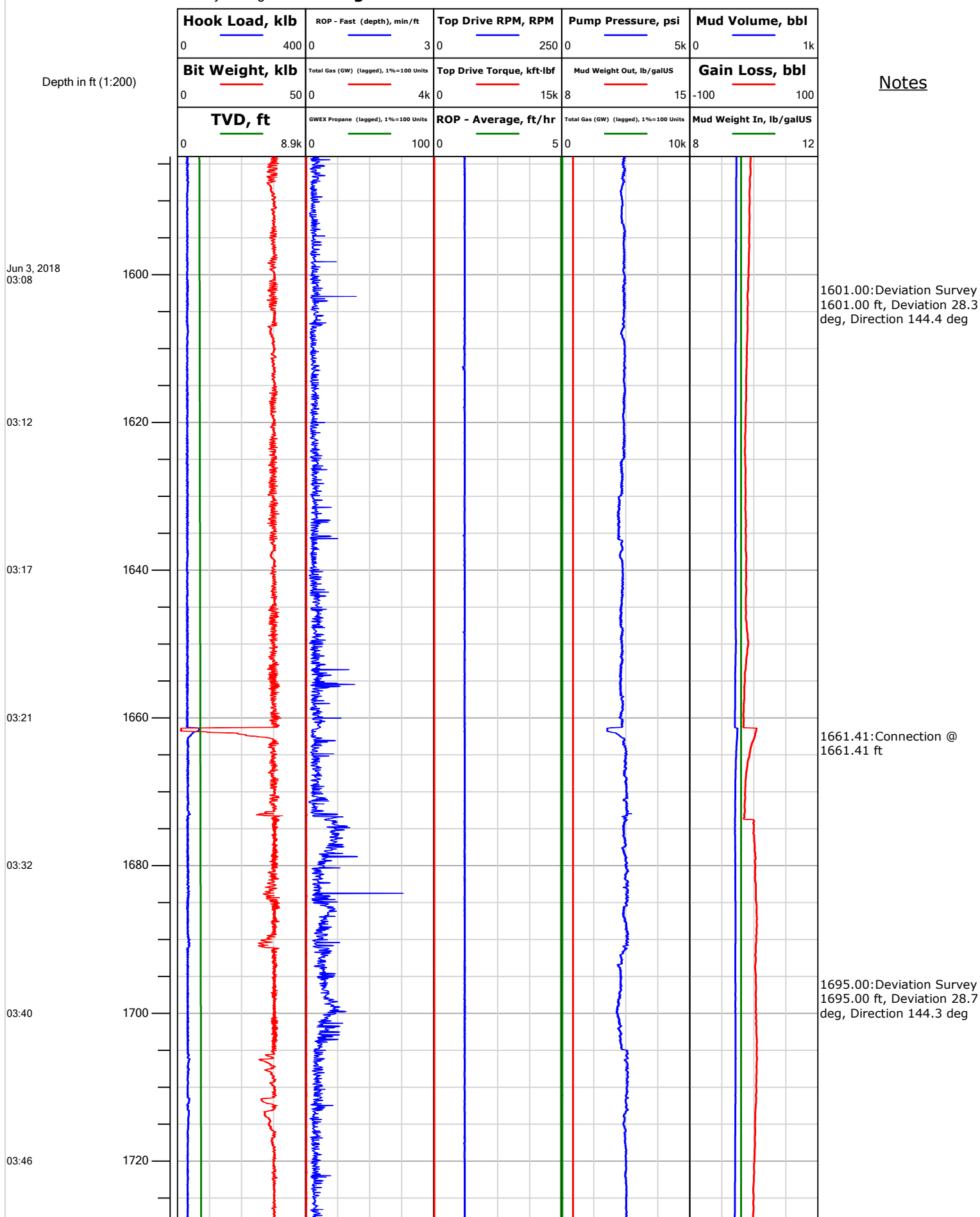


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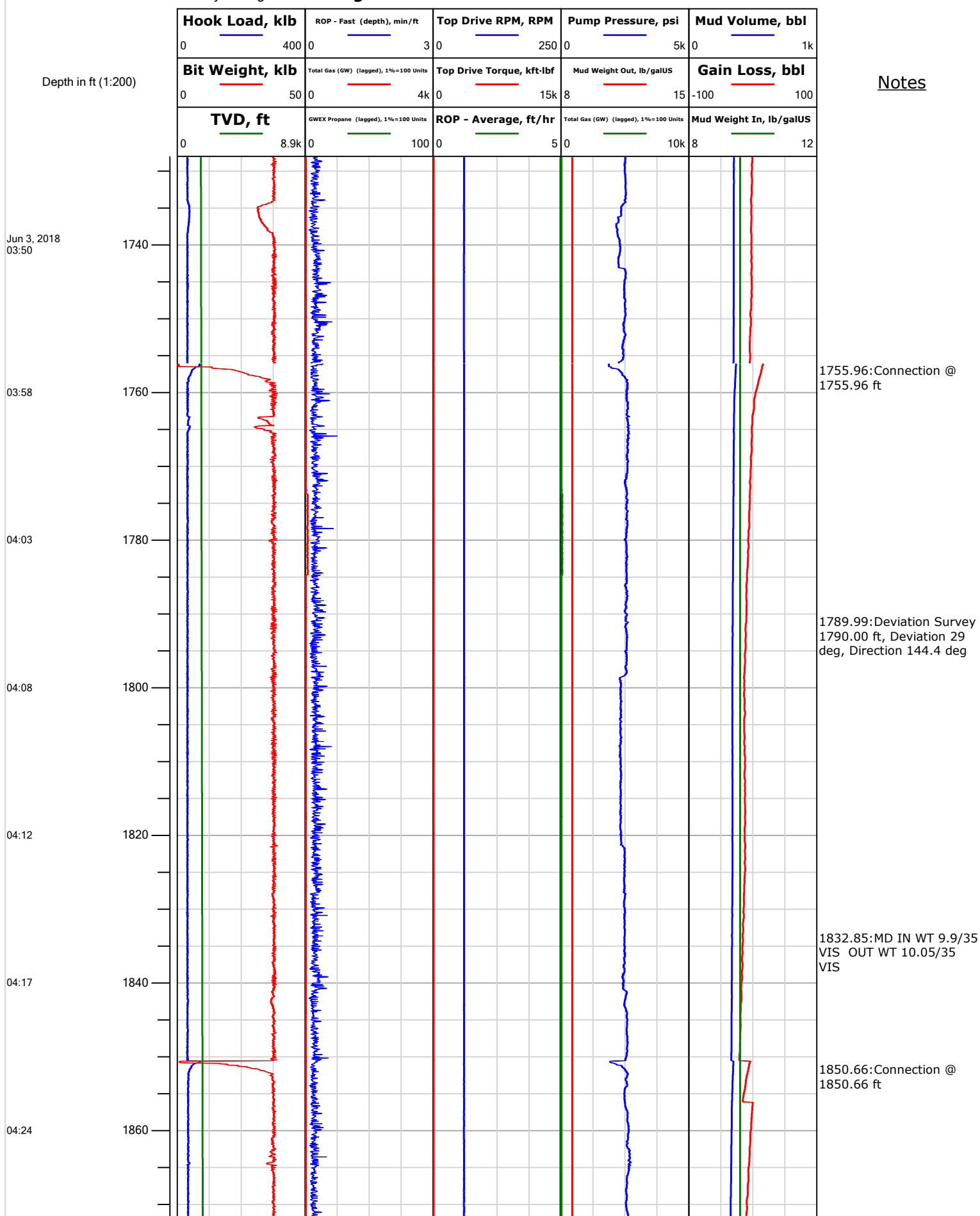


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Rig: 290

Location:



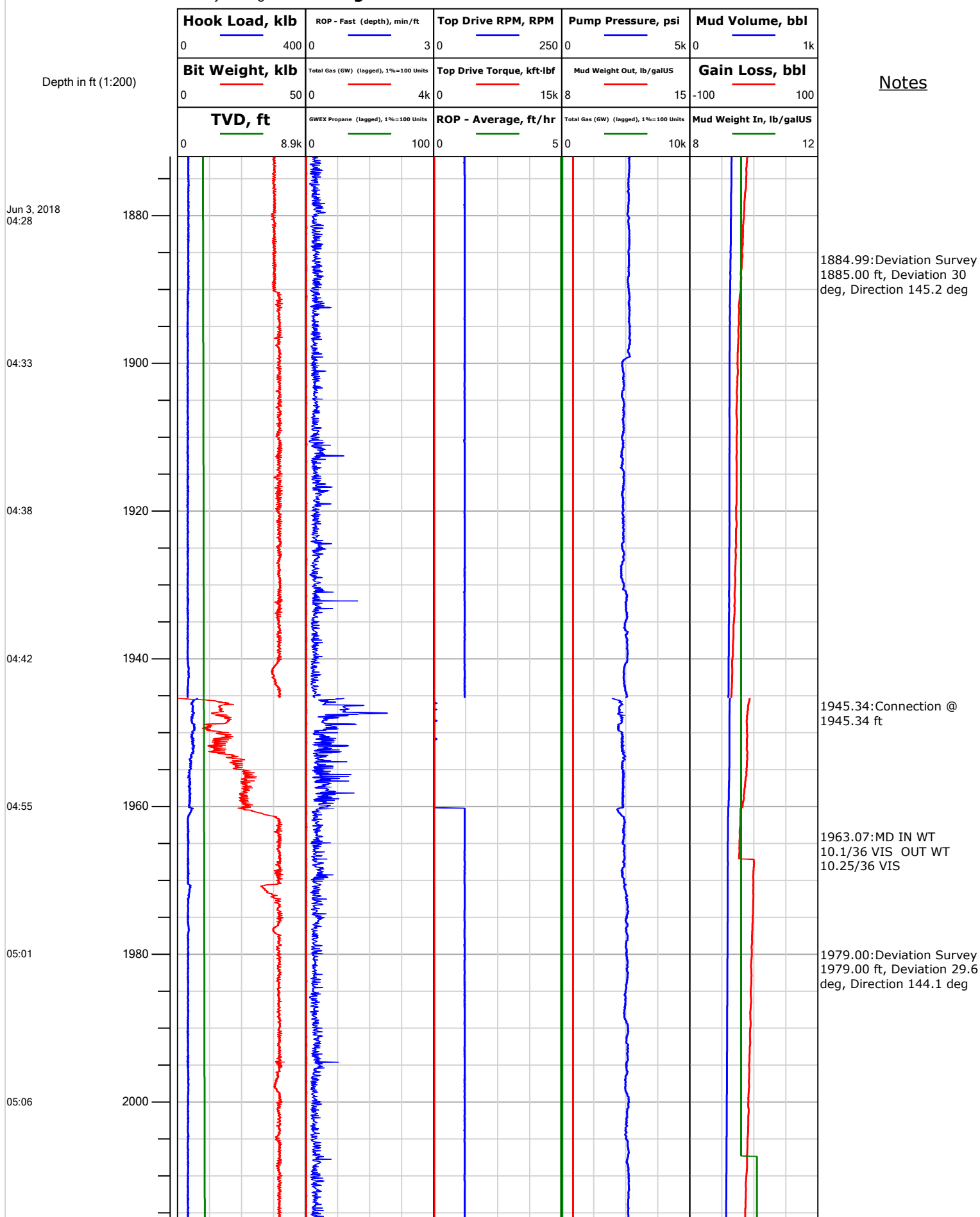


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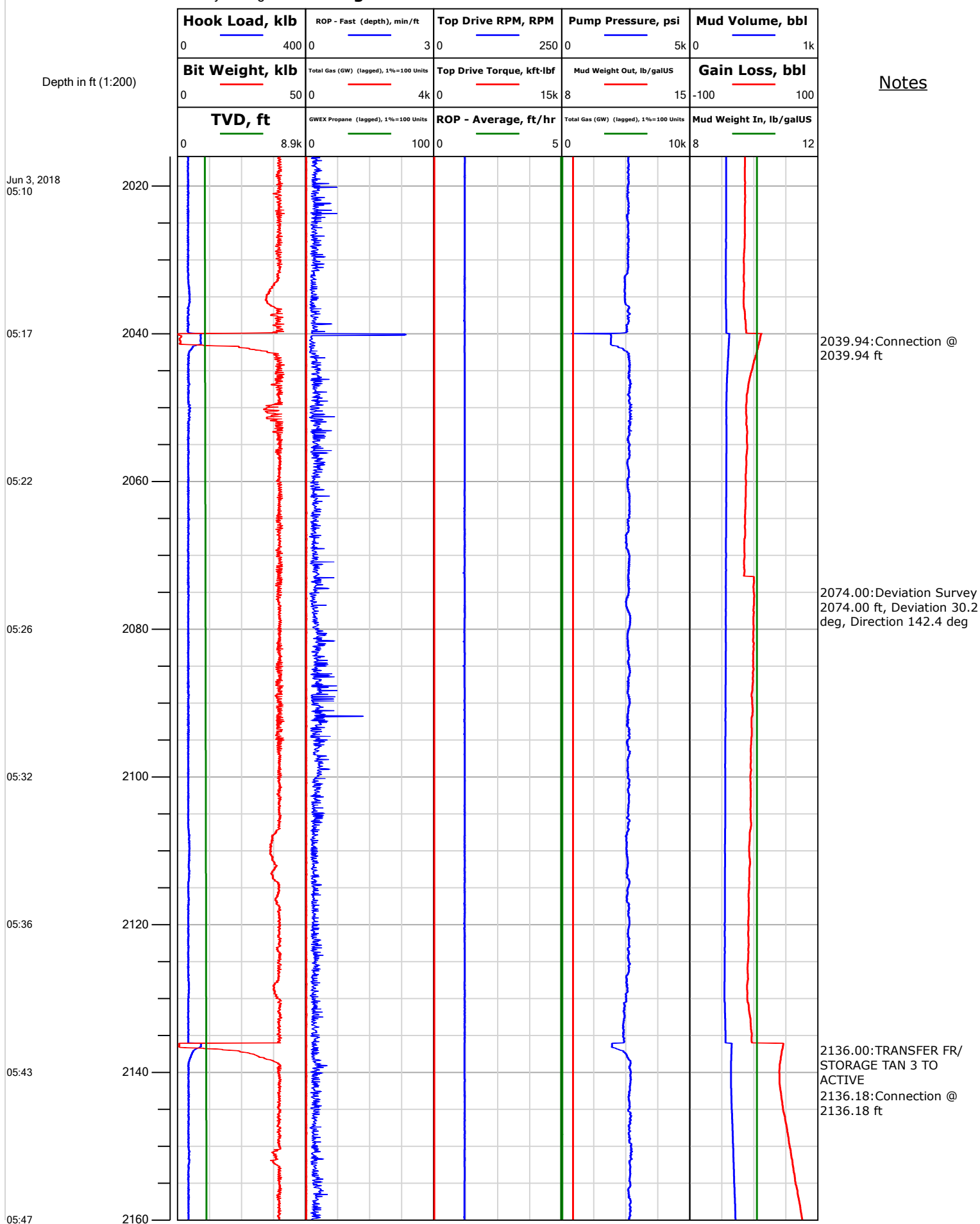


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Operator: Laramie Energy
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Well Name: Rig Mob to BCU 13-01 pad
Rig: 290

Location:





Electronic Drilling Recorder

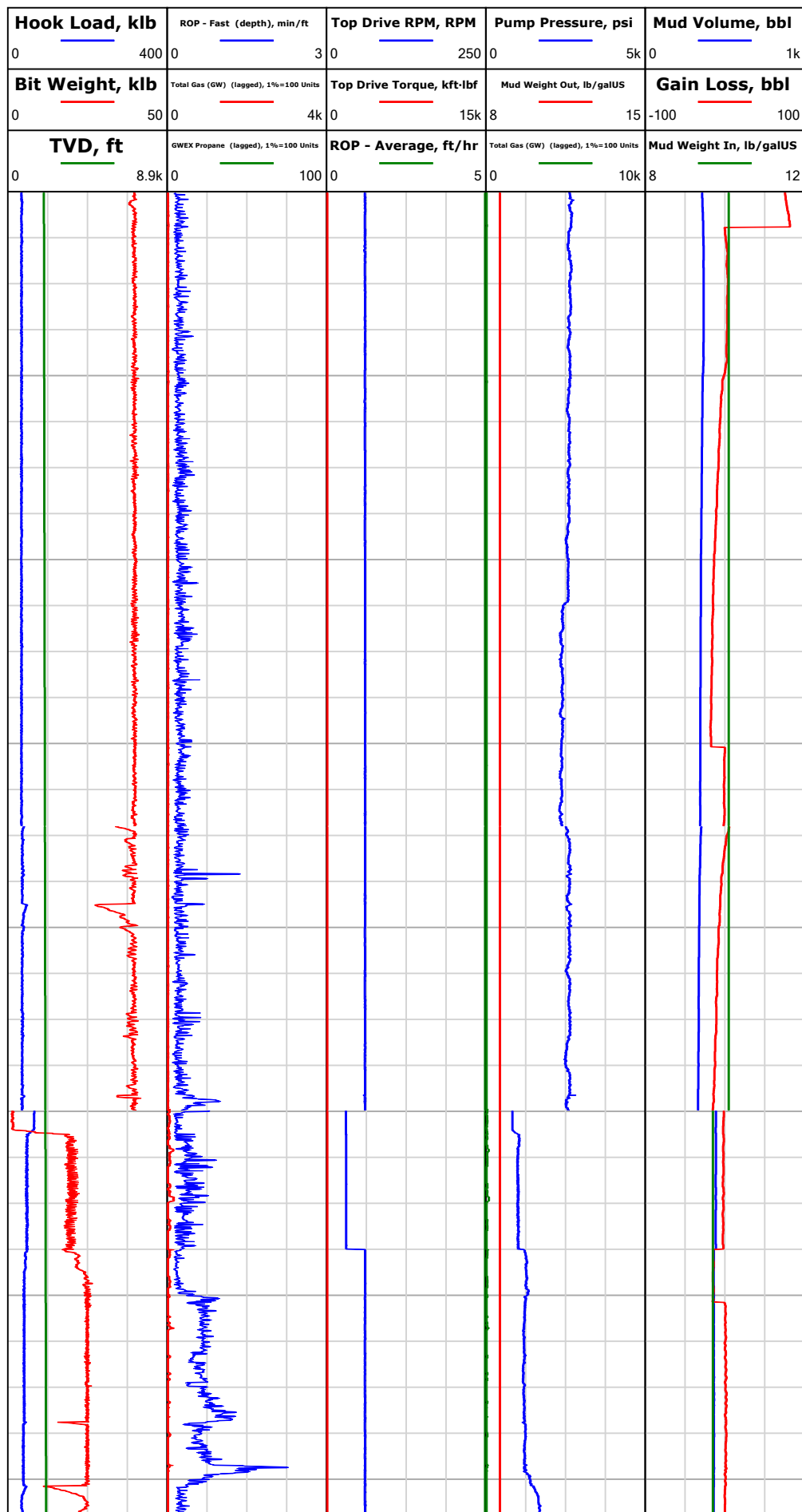
Operator: Laramie Energy
Contractor: Helmerich & Payne Drlg Co

Well Name: Rig Mob to BCU 13-01 pad
Rig: 290

Location:

Depth in ft (1:200)

Notes



Jun 3, 2018
05:51

05:56

06:01

06:09

Jun 4, 2018
18:58

22:34

22:49

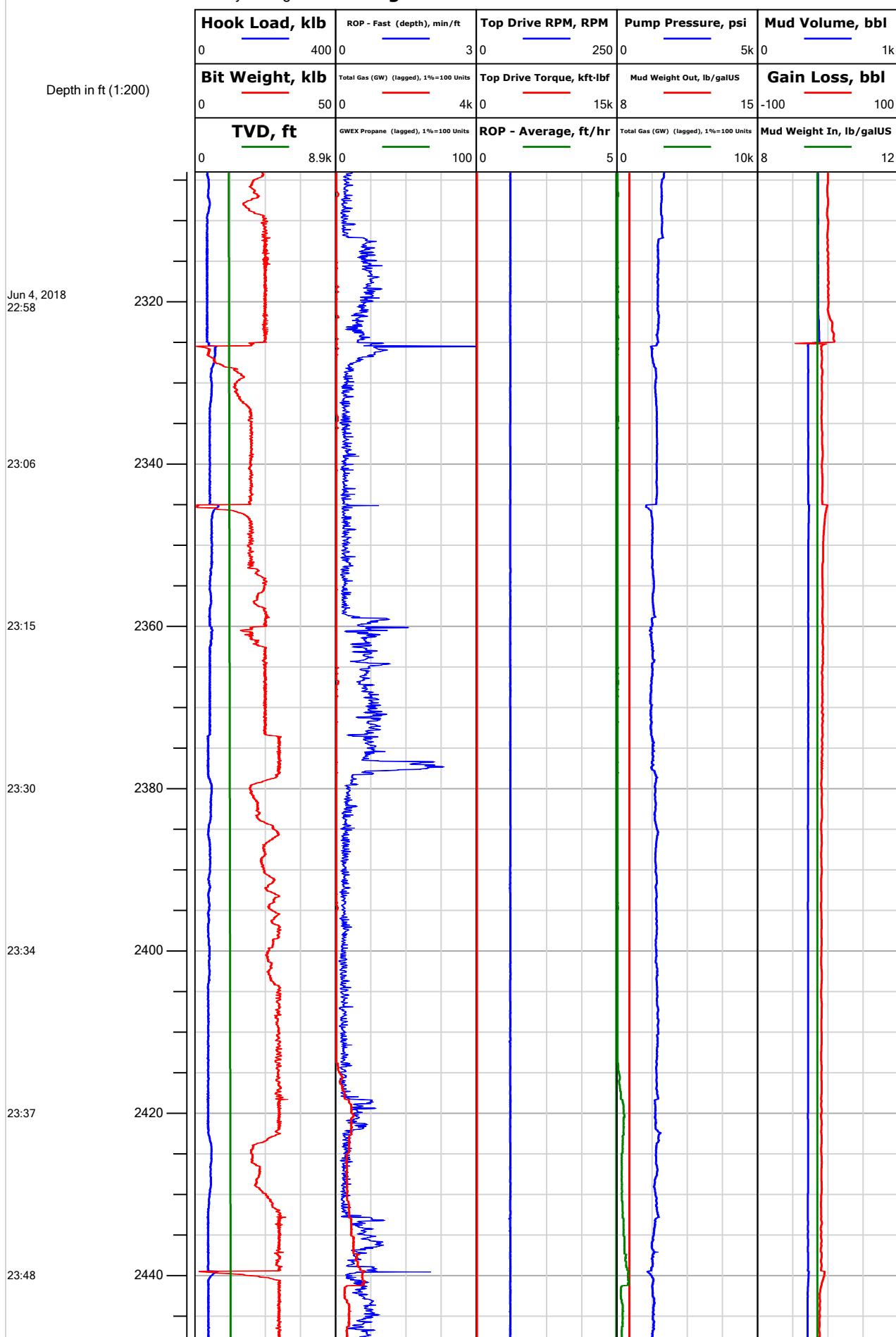


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Well Name: Rig Mob to BCU 13-01 pad
Rig: 290

Location:



Notes

2325.37:MD IN WT 9.3/31
 VIS OUT WT 9.3/32 VIS

2381.00:Deviation Survey
 2381.00 ft, Deviation 30.4
 deg, Direction 140.9 deg

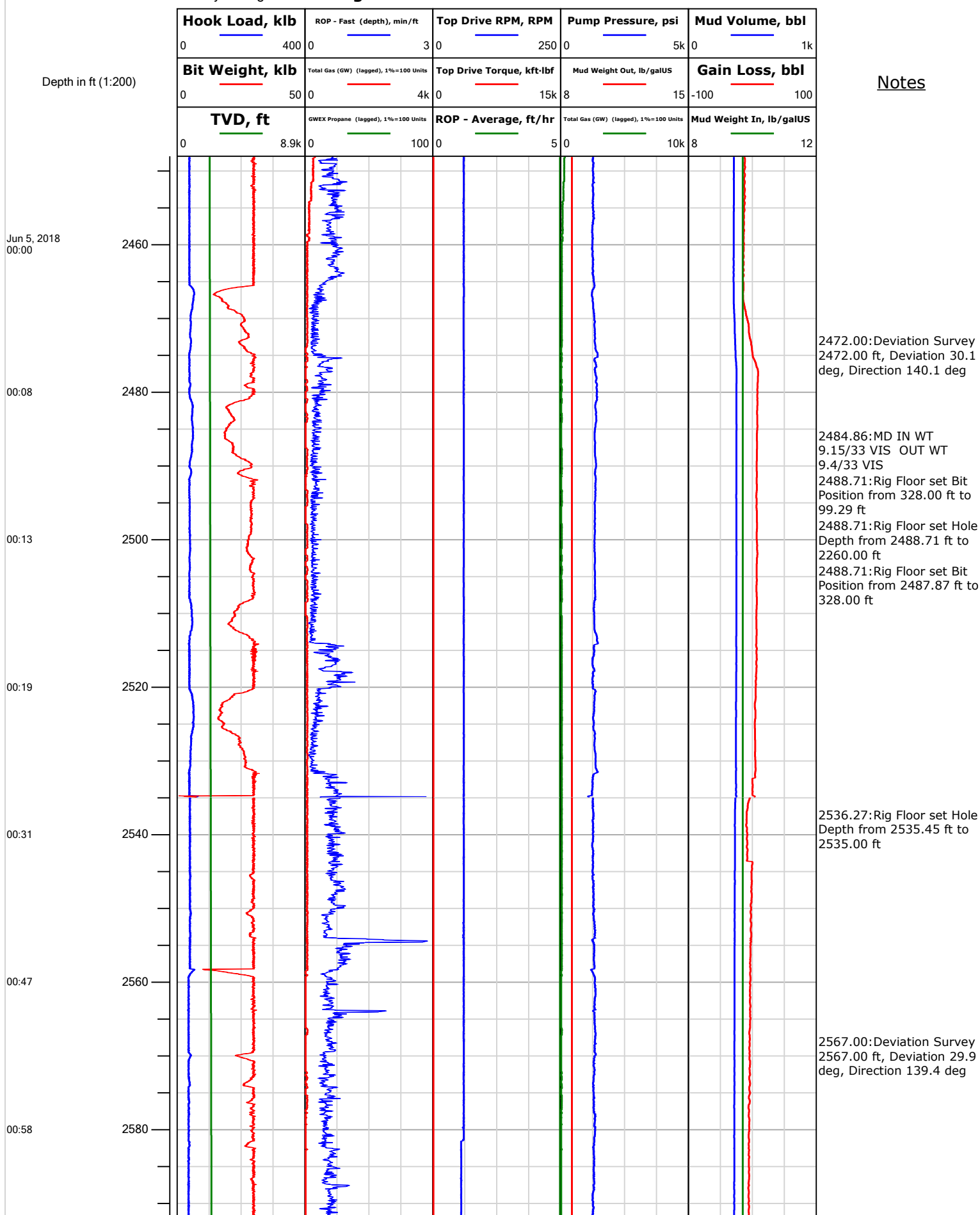


Electronic Drilling Recorder

Operator: Laramie Energy
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Well Name: Rig Mob to BCU 13-01 pad
Rig: 290

Location:



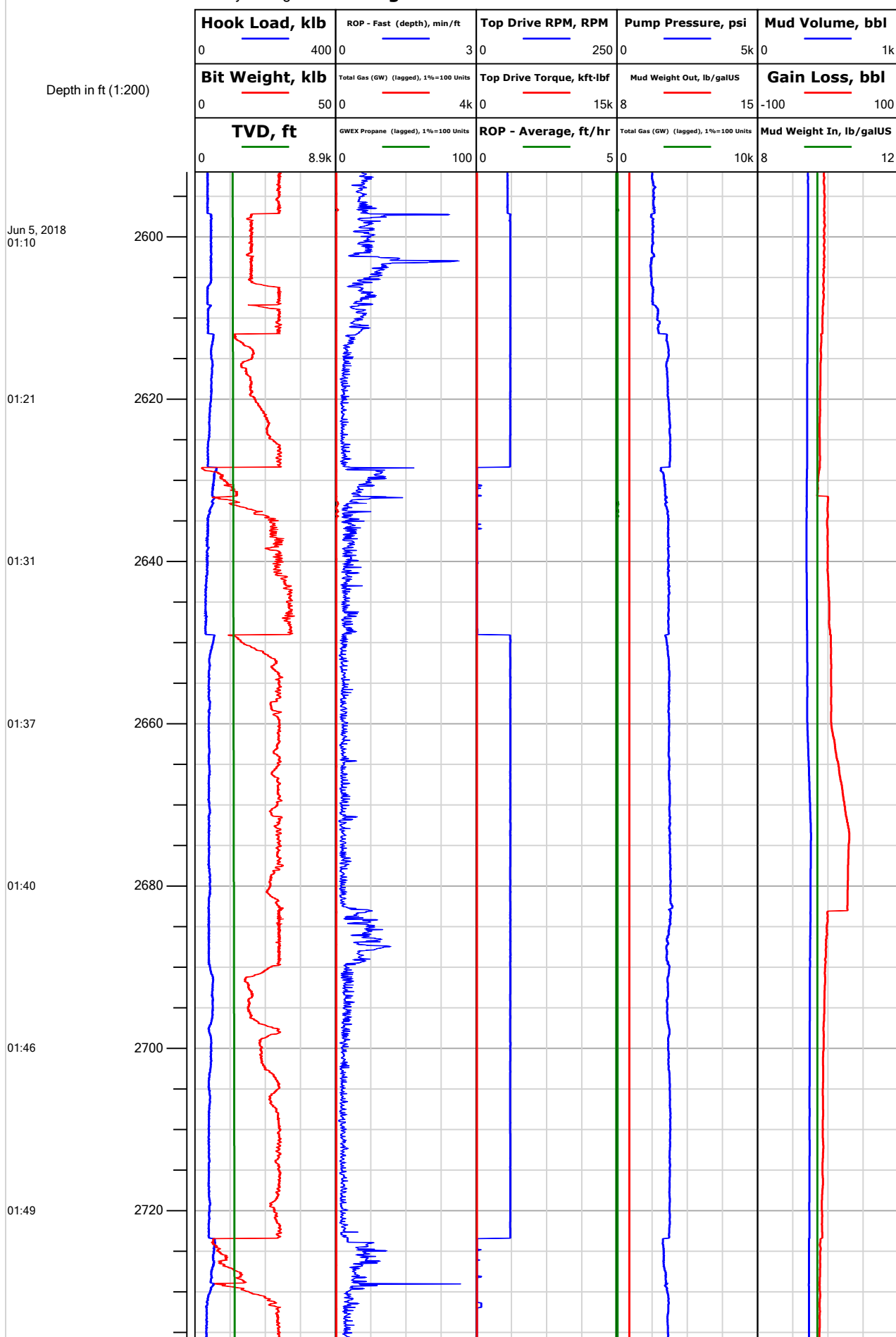


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Operator: Laramie Energy
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Well Name: Rig Mob to BCU 13-01 pad
Rig: 290

Location:



Notes

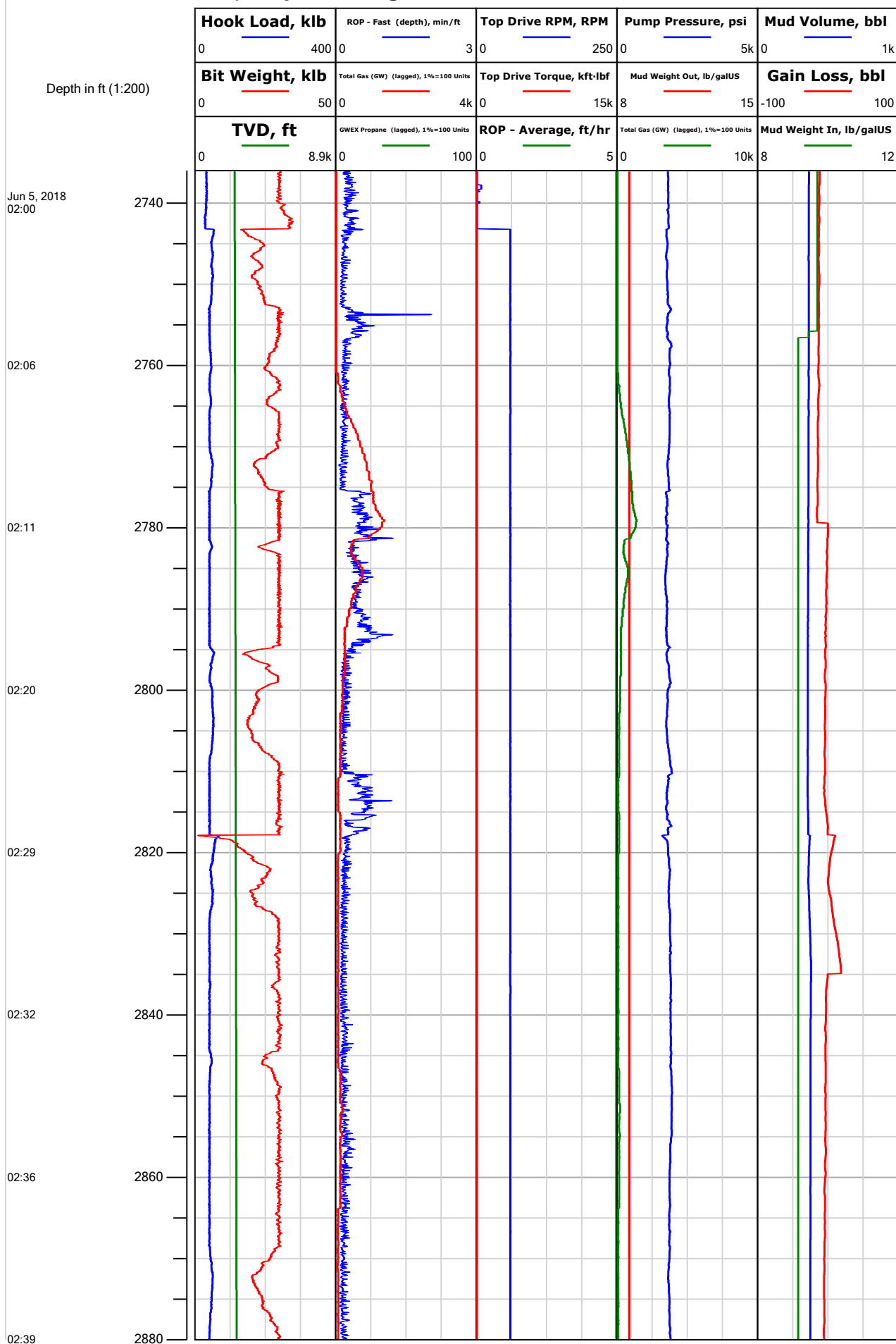


Electronic Drilling Recorder

Operator: Laramie Energy
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Well Name: Rig Mob to BCU 13-01 pad
Rig: 290

Location:



Notes

2756.00: Deviation Survey
 2756.00 ft, Deviation 27.3 deg, Direction 145 deg
 2760.93: MD IN WT
 9.15/33 VIS OUT WT
 9.25/31 VIS

2817.86: Connection @
 2817.86 ft

2843.75: TRANSFER FR/
 STORAGE TANK 2 TO
 SLUG TANK
 2850.00: Deviation Survey
 2850.00 ft, Deviation 26.8 deg, Direction 144.8 deg



Electronic Drilling Recorder

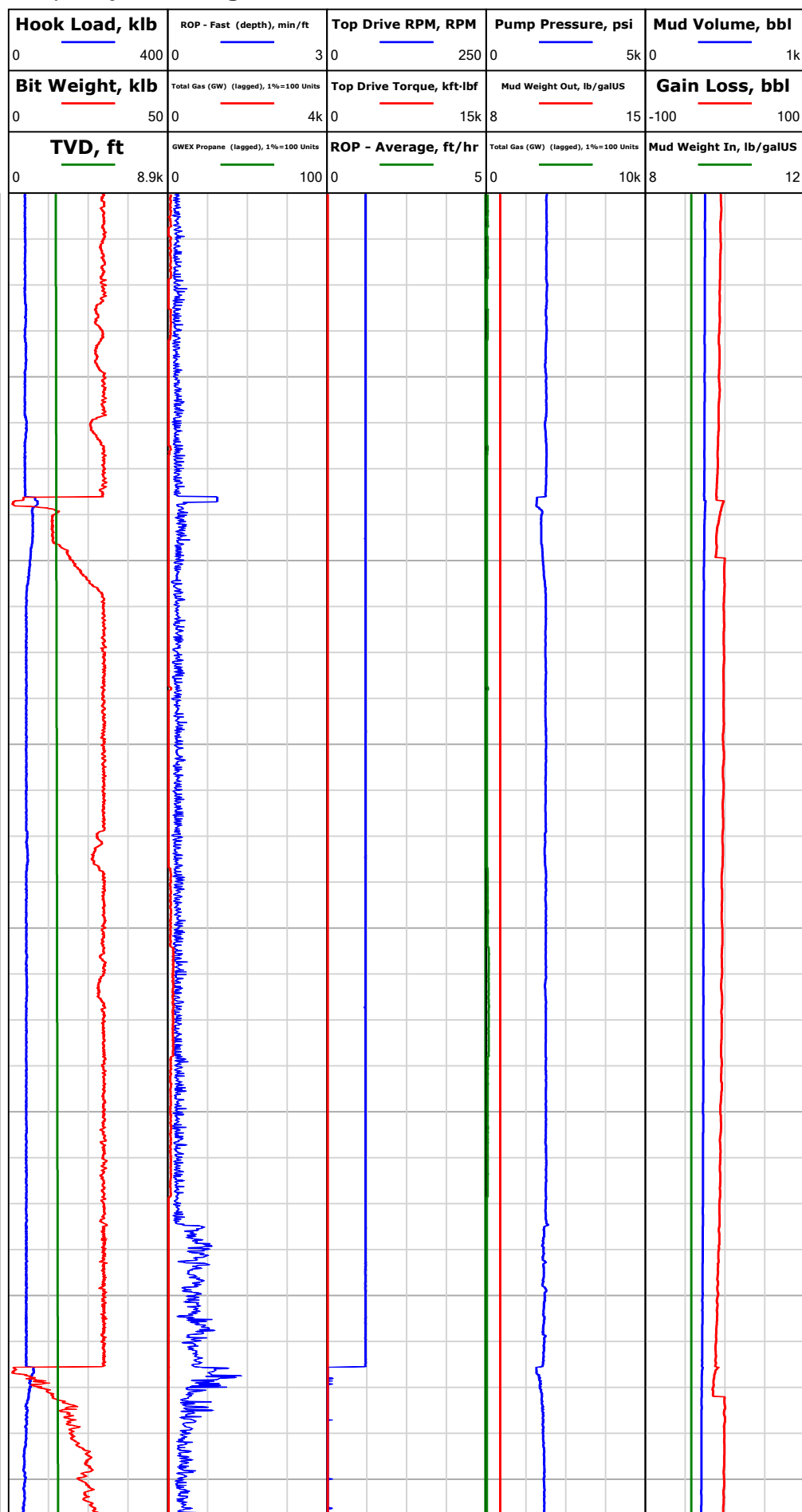
Operator: Laramie Energy
Contractor: Helmerich & Payne Drlg Co

Well Name: Rig Mob to BCU 13-01 pad
Rig: 290

Location:

Depth in ft (1:200)

Notes



Jun 5, 2018
02:42

02:50

02:53

02:57

03:00

03:06

03:19

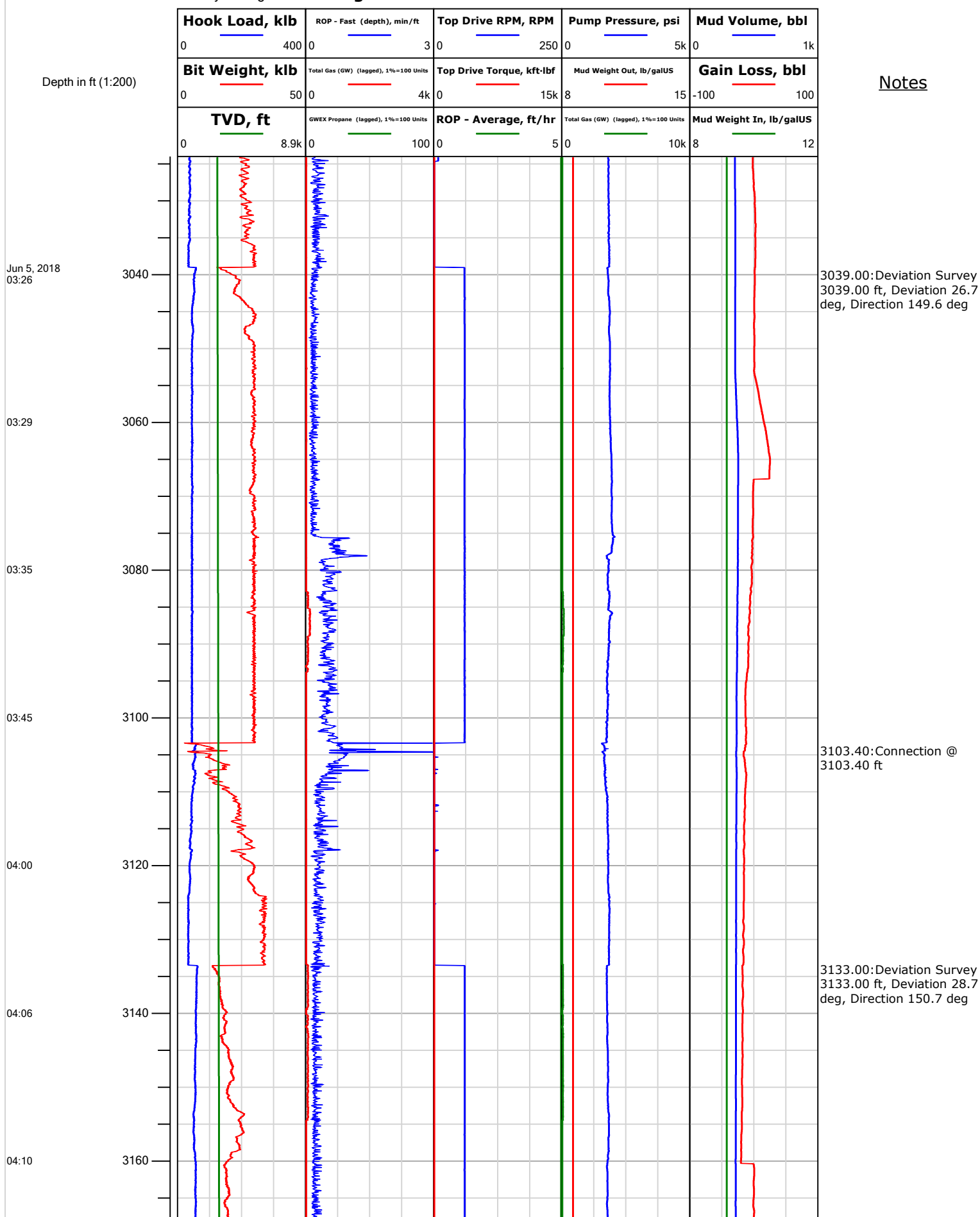


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Operator: Laramie Energy
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Well Name: Rig Mob to BCU 13-01 pad
Rig: 290

Location:





Electronic Drilling Recorder

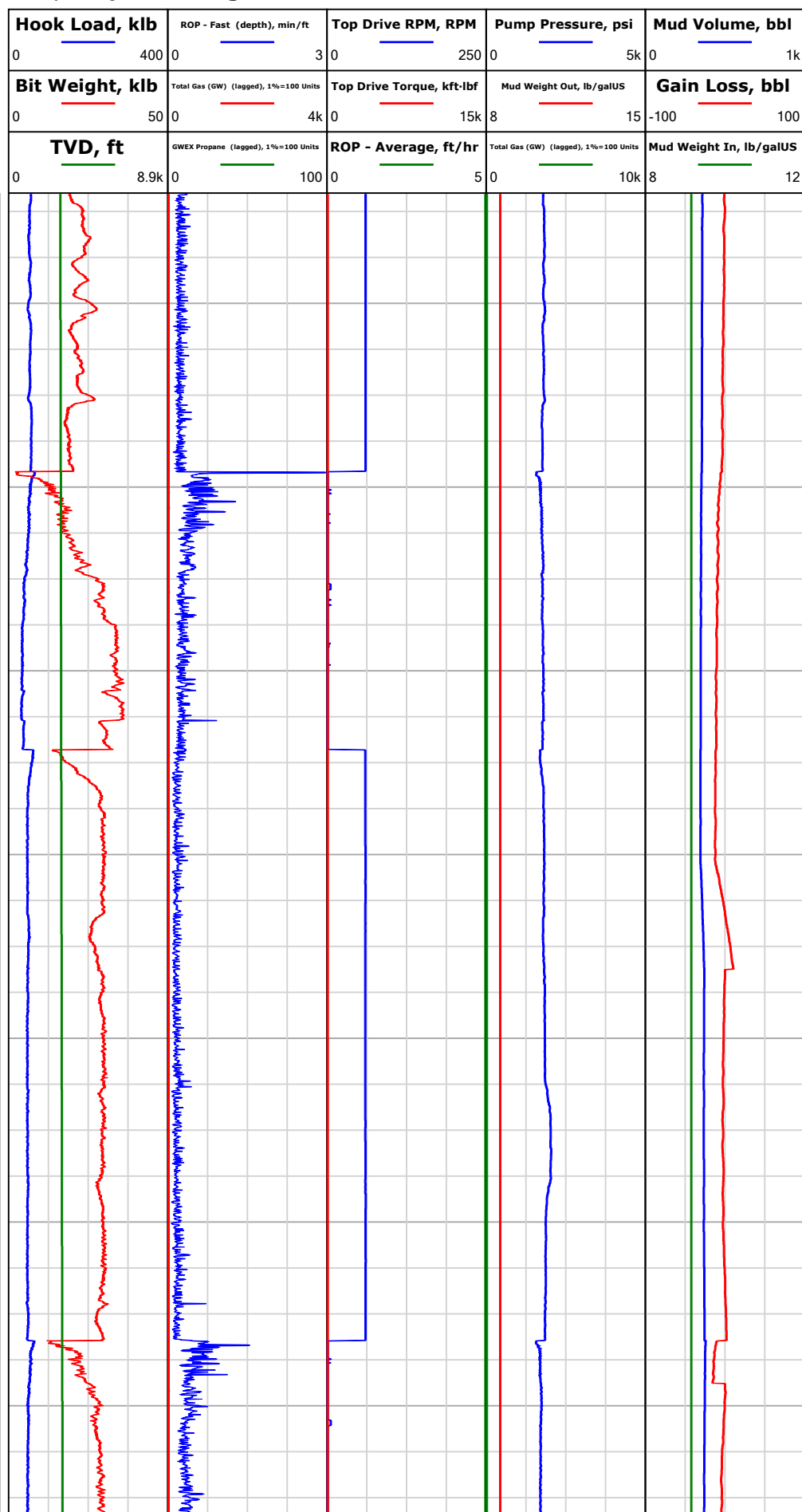
Operator: Laramie Energy
Contractor: Helmerich & Payne Drlg Co

Well Name: Rig Mob to BCU 13-01 pad
Rig: 290

Location:

Depth in ft (1:200)

Notes



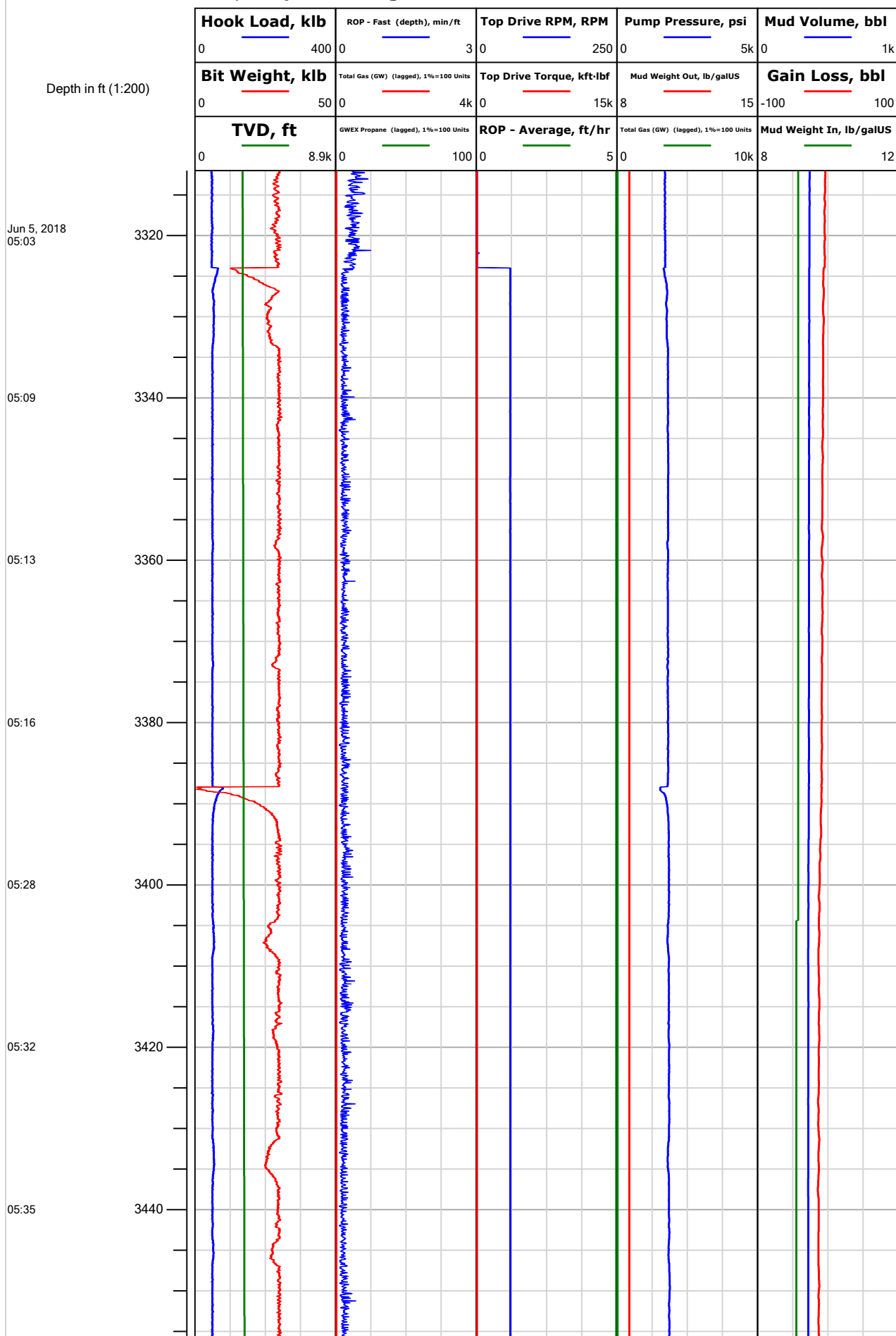


Electronic Drilling Recorder

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Rig: 290

Location:



Notes

3323.00: Deviation Survey
 3323.00 ft, Deviation 32.3 deg, Direction 145.8 deg
 3328.22: MD IN WT 9.1/31
 VIS OUT WT 9.05/31 VIS

3387.97: Connection @
 3387.98 ft

3417.00: Deviation Survey
 3417.00 ft, Deviation 32.6 deg, Direction 144.4 deg



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Rig: 290

Location:

Depth in ft (1:200)

Notes

Jun 5, 2018
05:38

05:42

05:53

06:01

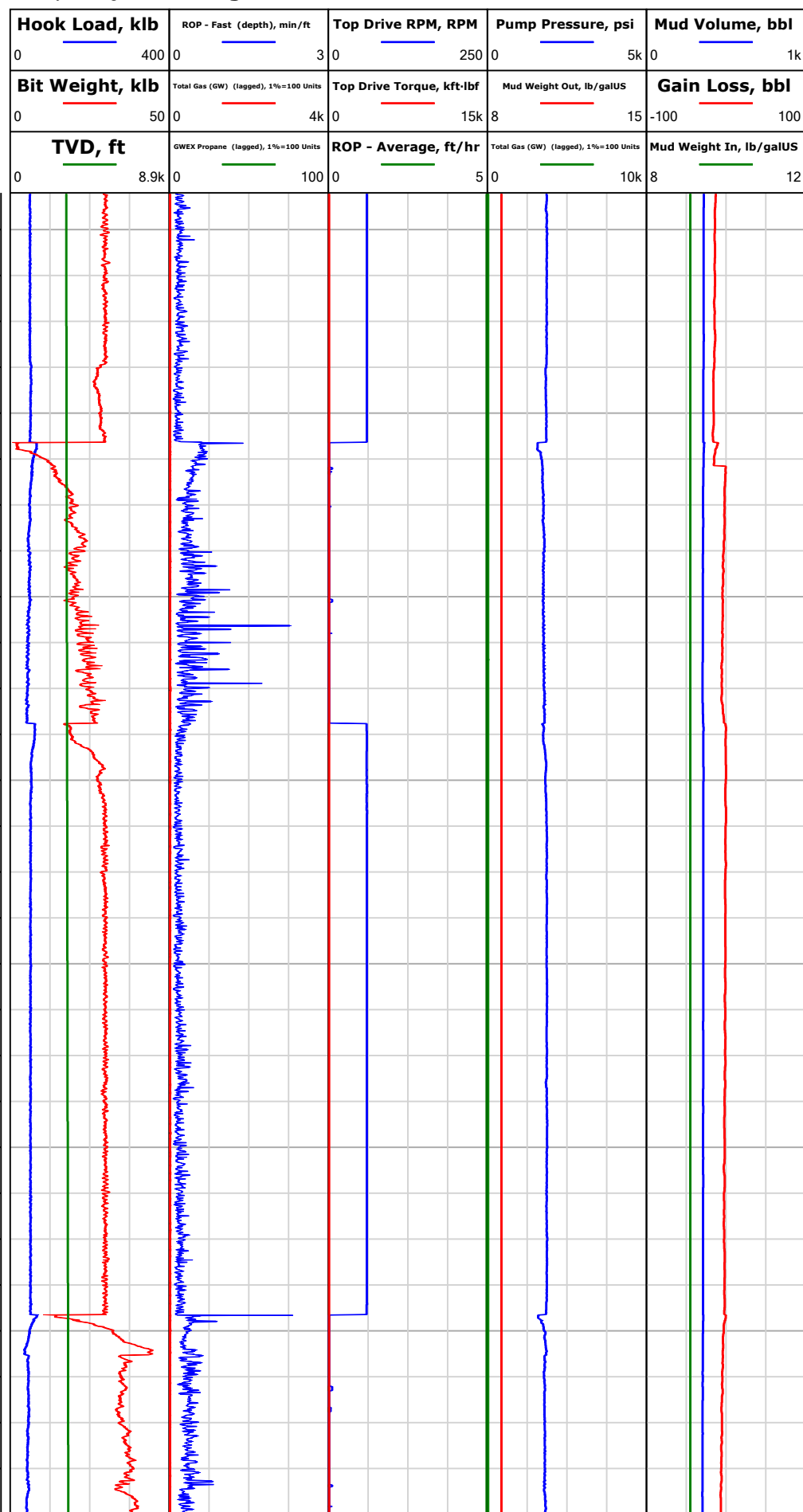
06:04

06:07

06:16

06:23

3460
3480
3500
3520
3540
3560
3580
3600



3483.12:Connection @
3483.12 ft

3512.00:Deviation Survey
3512.00 ft, Deviation 33.8
deg, Direction 145.9 deg

3578.39:Connection @
3578.39 ft



Electronic Drilling Recorder

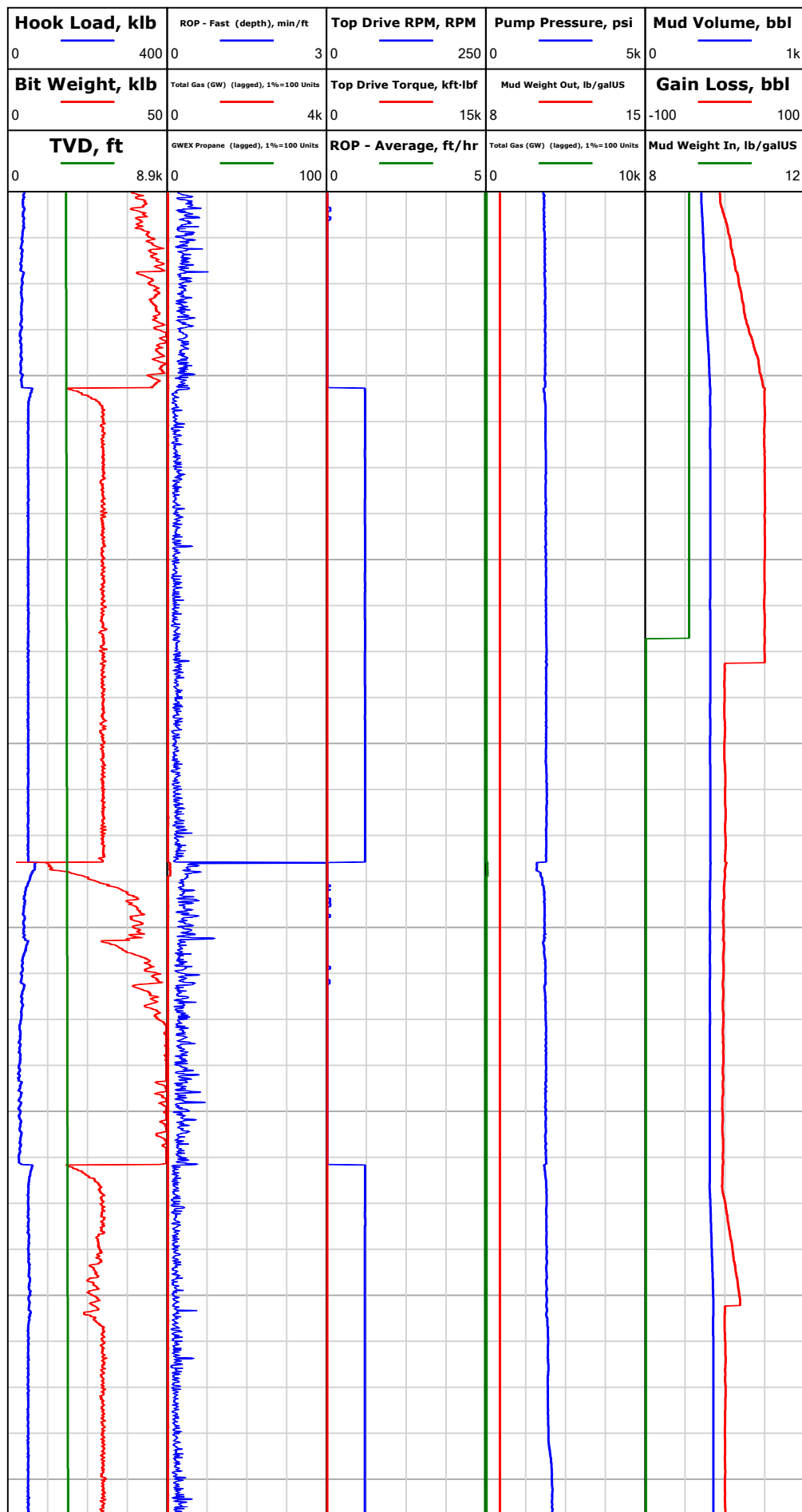
Operator: Laramie Energy
Contractor: Helmerich & Payne Drlg Co

Well Name: Rig Mob to BCU 13-01 pad
Rig: 290

Location:

Depth in ft (1:200)

Notes



3606.00: Deviation Survey
 3606.00 ft, Deviation 36.2 deg, Direction 146.2 deg

3672.96: Connection @
 3672.96 ft

3701.00: Deviation Survey
 3701.00 ft, Deviation 39.4 deg, Direction 147.6 deg

Jun 5, 2018
 06:29

06:35

06:38

06:50

06:56

07:00

07:03

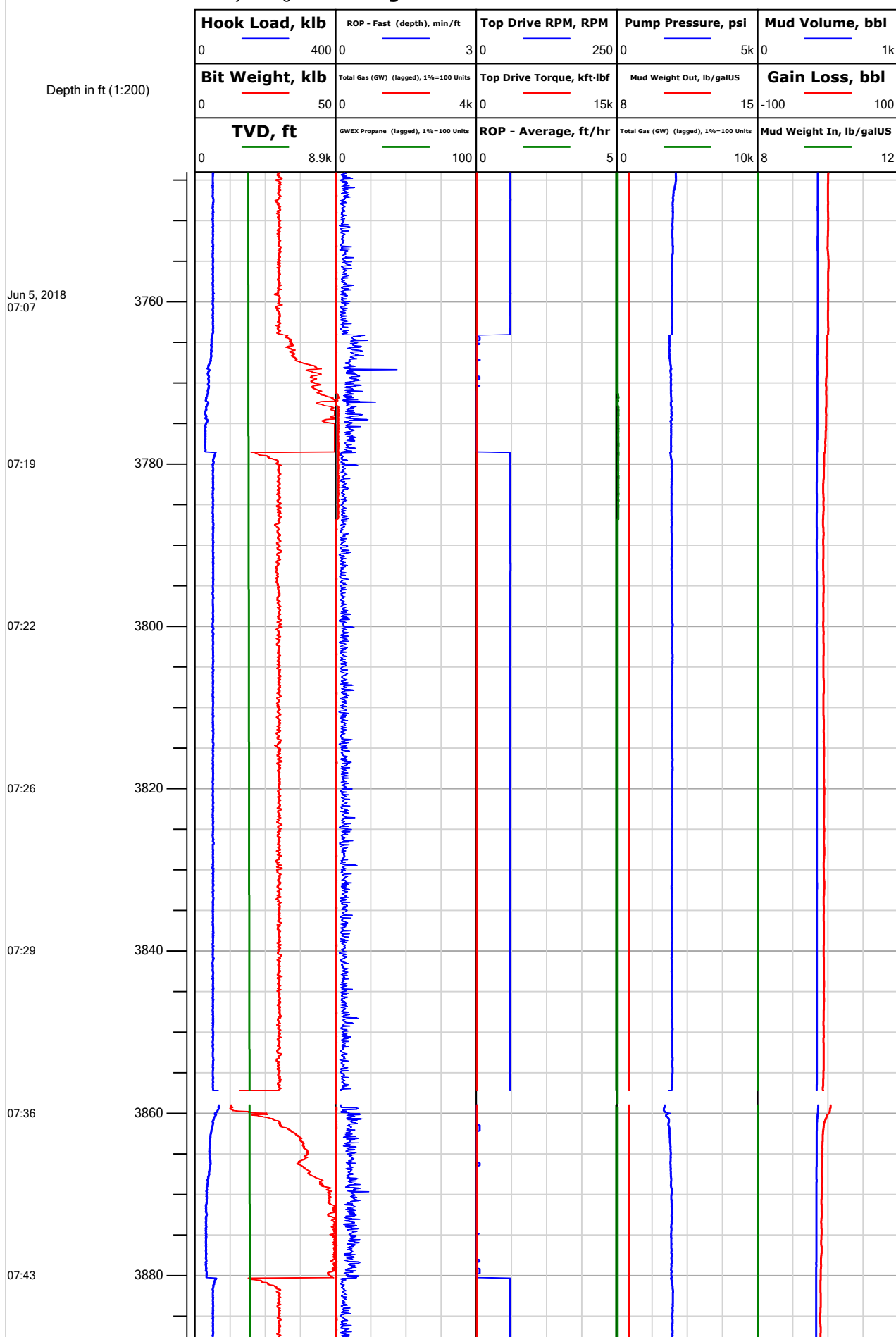


Electronic Drilling Recorder

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Rig: 290

Location:



Notes

3767.82:Connection @
 3767.83 ft
 3769.33:Rig Floor set Hole
 Depth from 3769.20 ft to
 3764.00 ft

3795.99:Deviation Survey
 3796.00 ft, Deviation 40.1
 deg, Direction 147.7 deg

3859.00:Connection @
 3859.01 ft



Electronic Drilling Recorder

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Well Name: Rig Mob to BCU 13-01 pad
Rig: 290

Location:

Depth in ft (1:200)

Notes



Jun 5, 2018
 07:47

07:50

07:53

08:02

08:05

08:08

08:12

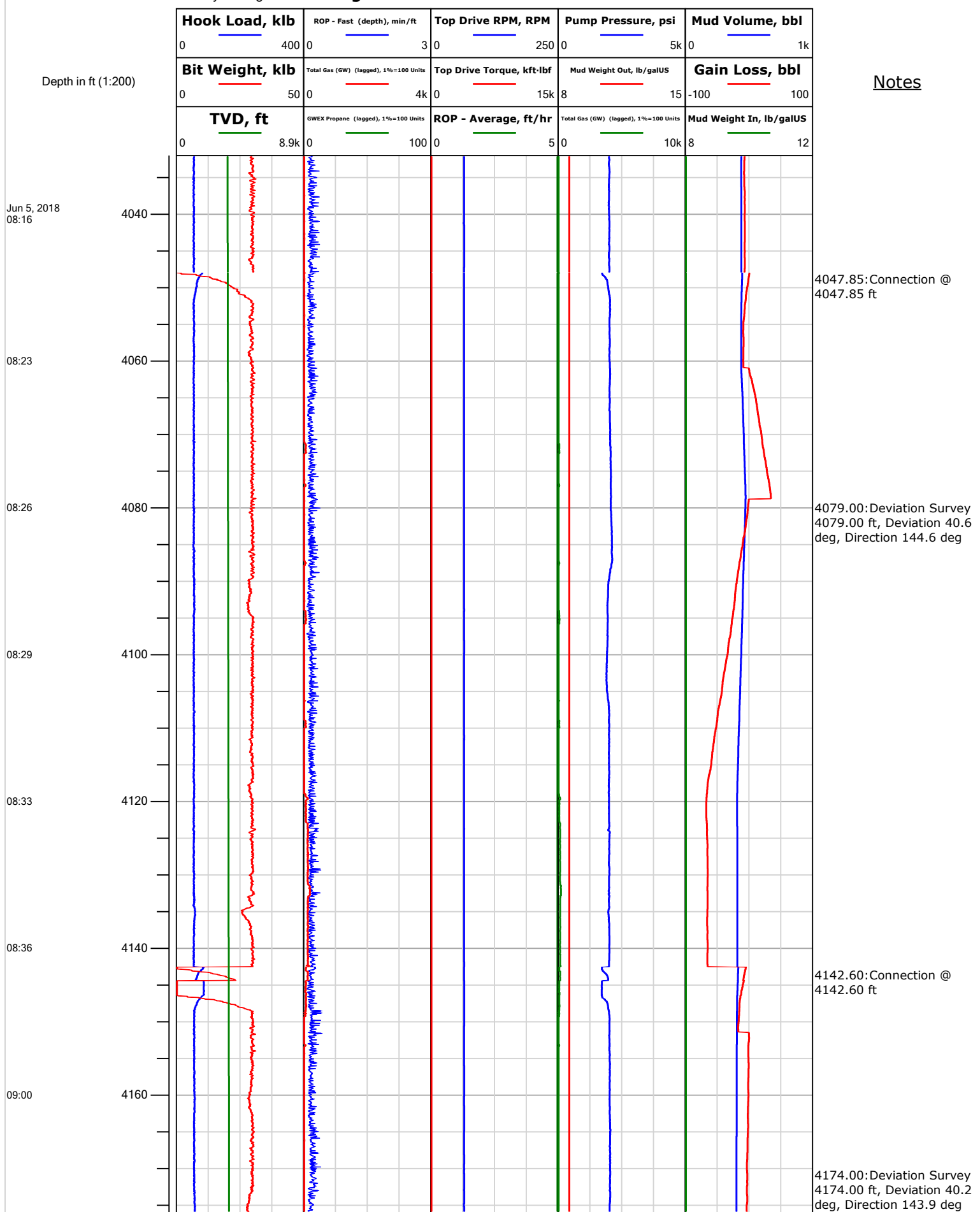


Electronic Drilling Recorder

Operator: Laramie Energy
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Well Name: Rig Mob to BCU 13-01 pad
Rig: 290

Location:



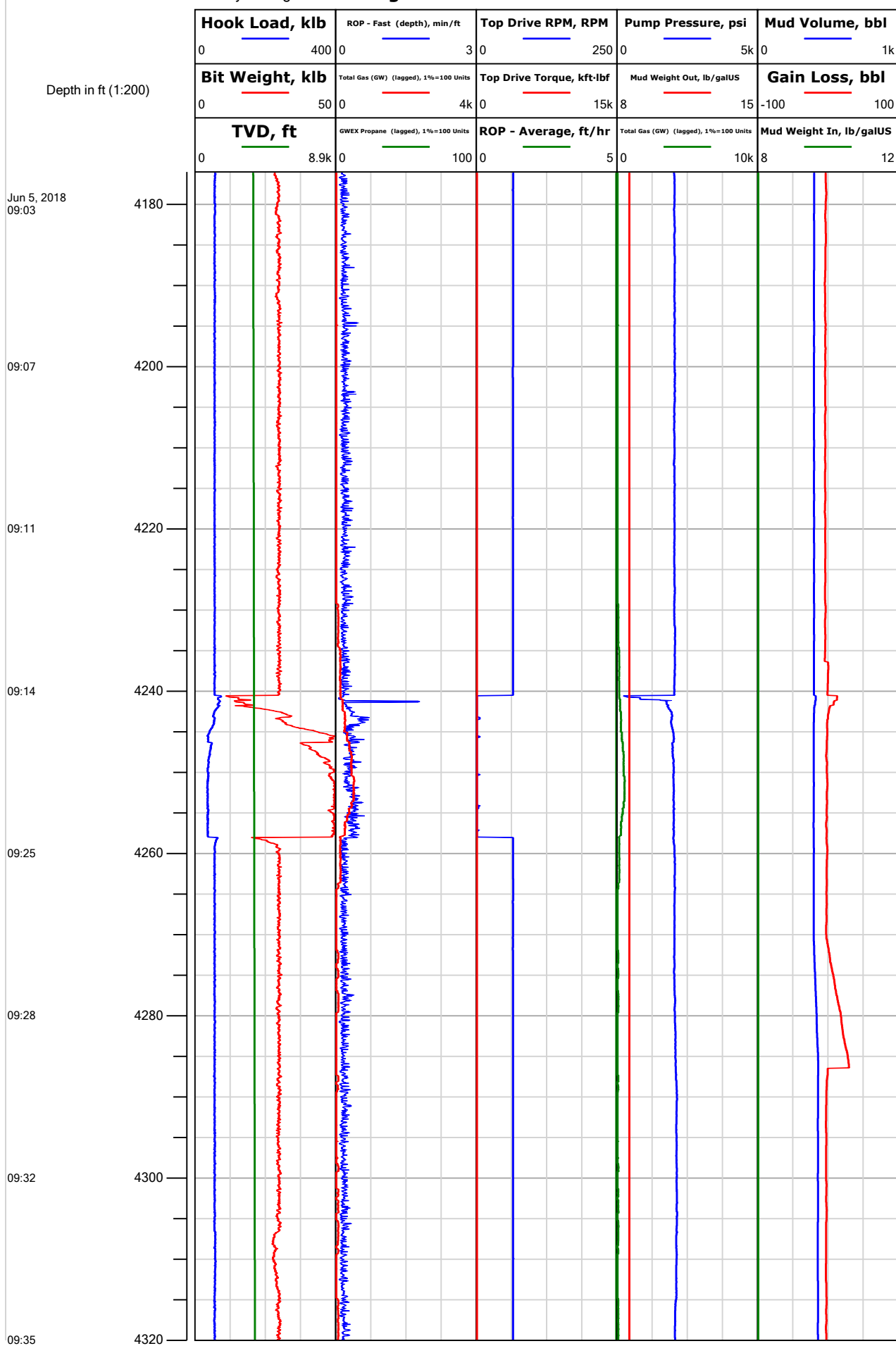


Electronic Drilling Recorder

Operator: Laramie Energy
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Well Name: Rig Mob to BCU 13-01 pad
Rig: 290

Location:



Notes



Electronic Drilling Recorder

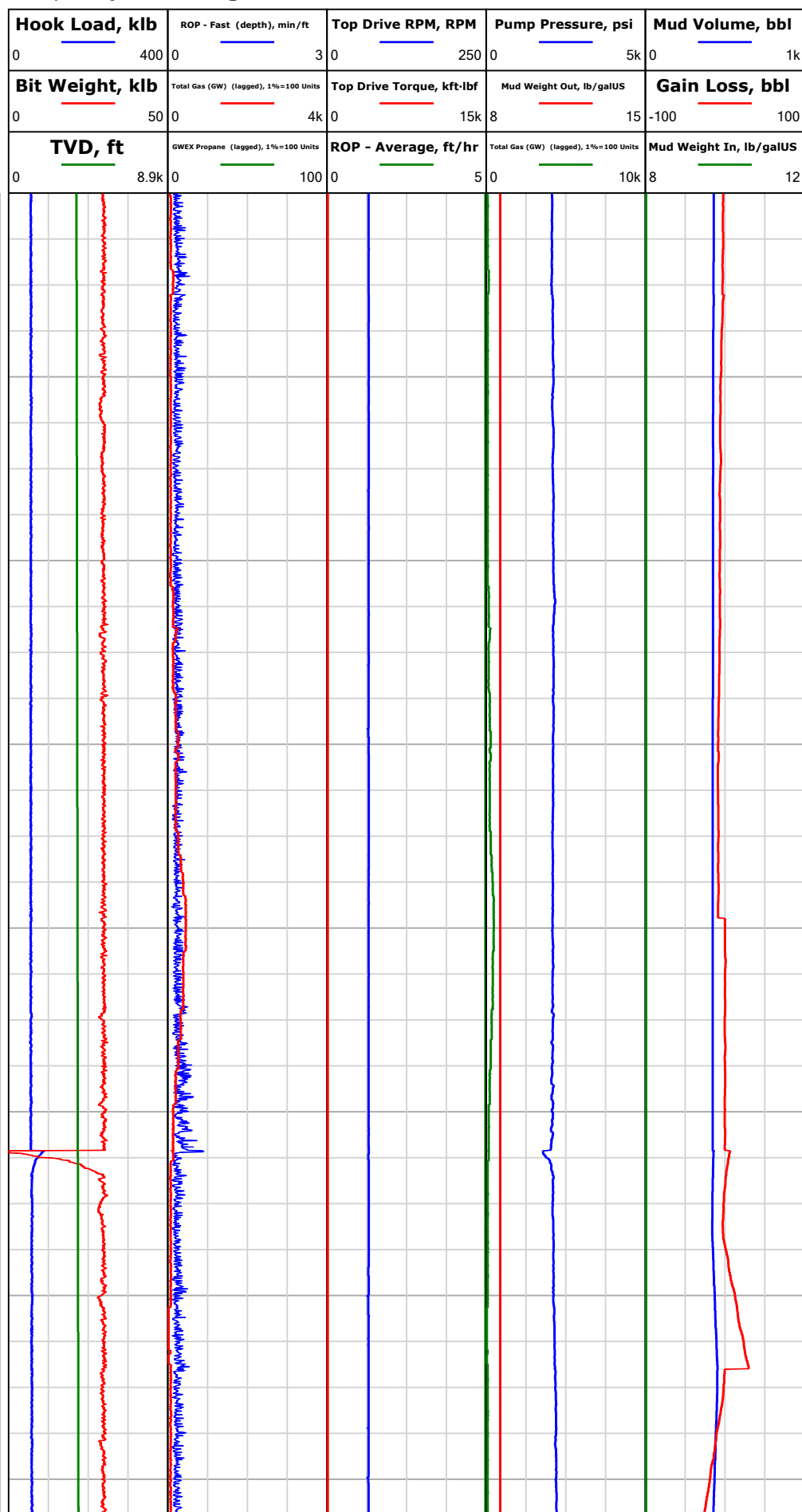
Operator: Laramie Energy
Contractor: Helmerich & Payne Drlg Co

Well Name: Rig Mob to BCU 13-01 pad
Rig: 290

Location:

Depth in ft (1:200)

Notes



Jun 5, 2018
09:43

09:46

09:49

09:53

09:57

10:03

10:07

4338.12: Rig Floor set Hole
Depth from 4337.68 ft to
4331.00 ft

4363.00: Deviation Survey
4363.00 ft, Deviation 41.2
deg, Direction 142.5 deg

4424.31: Connection @
4424.31 ft

4458.00: Deviation Survey
4458.00 ft, Deviation 40.7
deg, Direction 142 deg

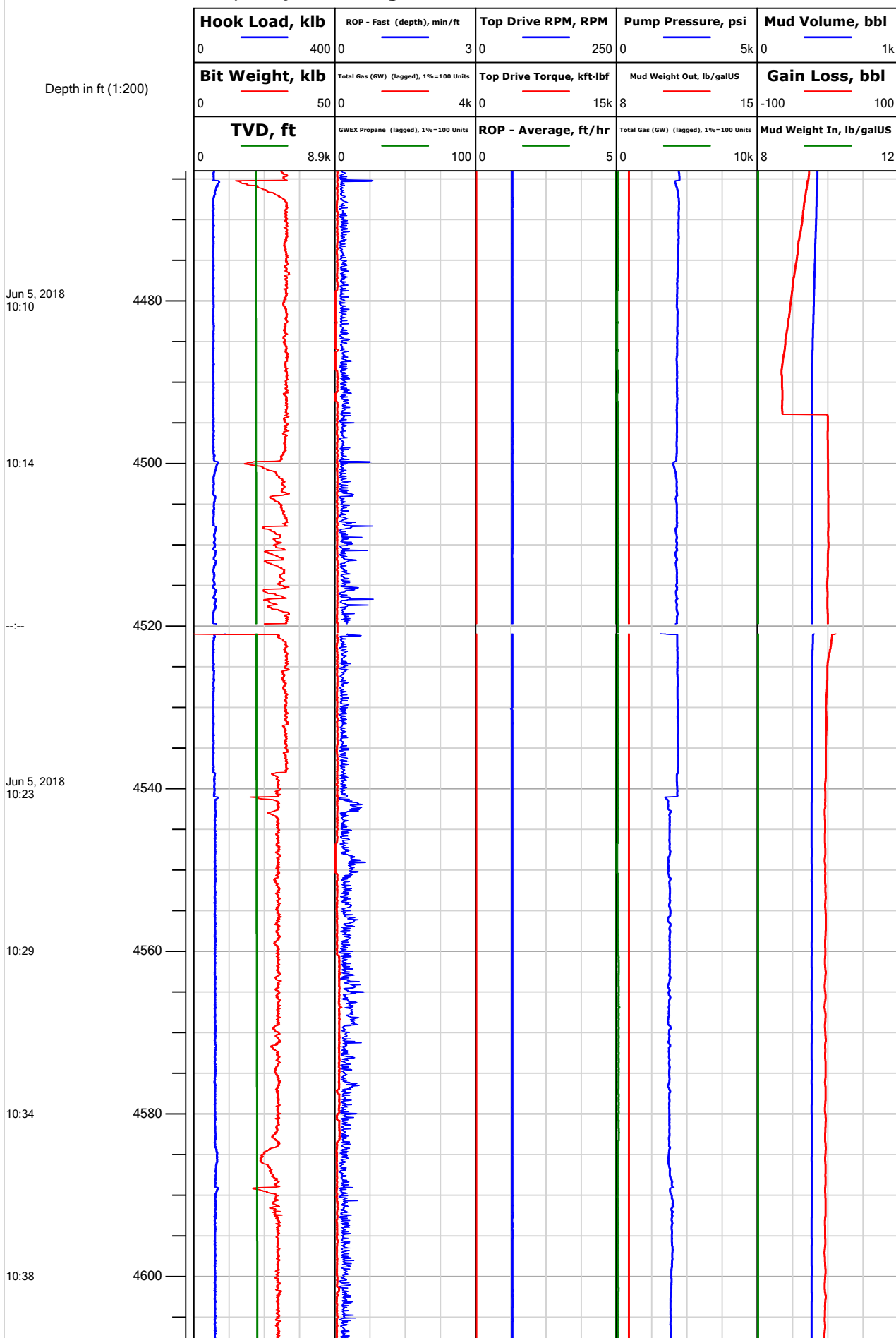


Electronic Drilling Recorder

Operator: Laramie Energy
Contractor: Helmerich & Payne Drlg Co

Well Name: Rig Mob to BCU 13-01 pad
Rig: 290

Location:



Notes

4520.92: Connection @
 4520.92 ft
 4523.04: Rig Floor set Hole
 Depth from 4522.68 ft to
 4521.00 ft

4552.00: Deviation Survey
 4552.00 ft, Deviation 40.6
 deg, Direction 141.5 deg

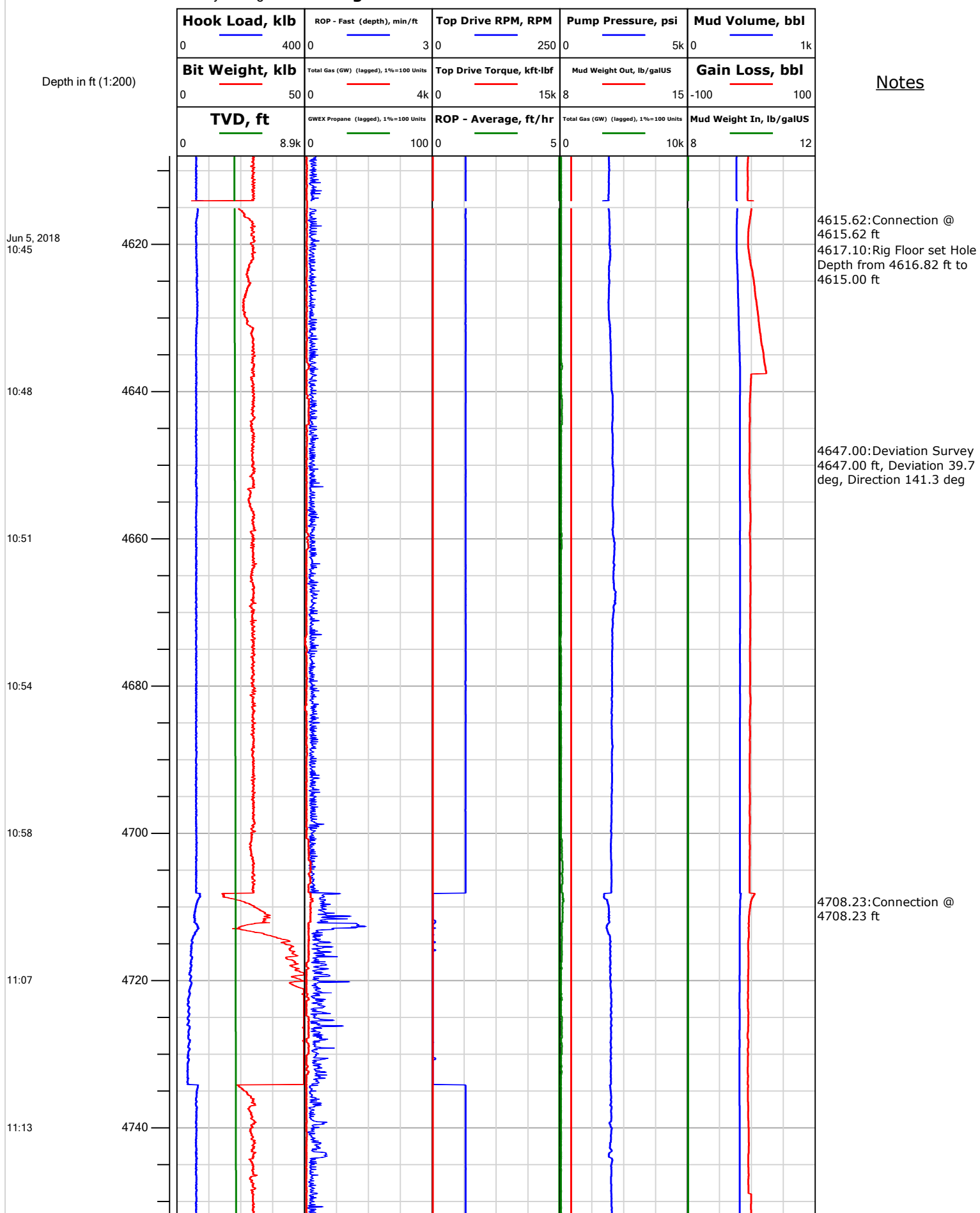


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Rig: 290

Location:





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Well Name: Rig Mob to BCU 13-01 pad
Rig: 290

Location:

Depth in ft (1:200)

Notes

Jun 5, 2018
11:17

11:20

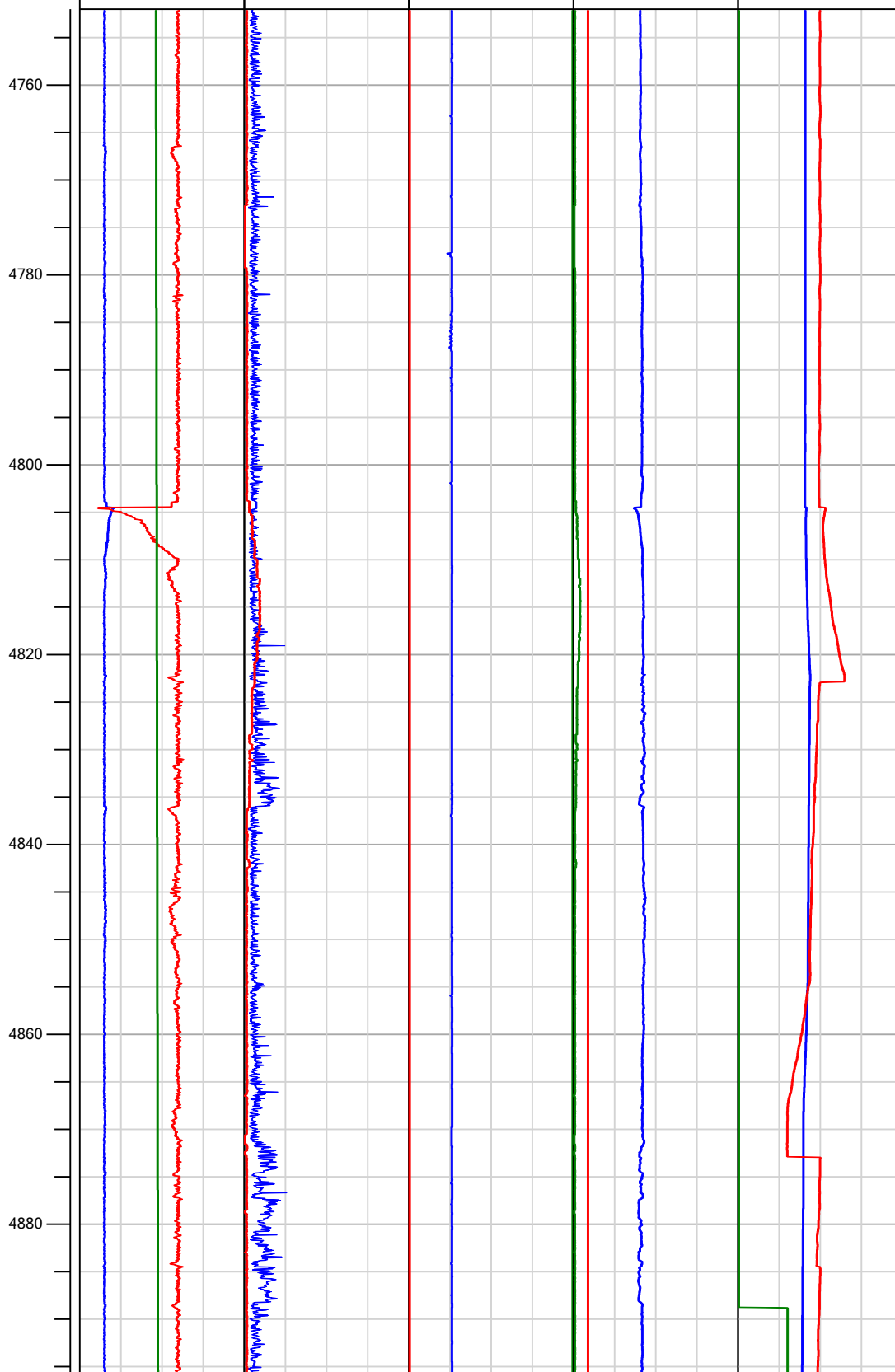
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11:29

11:34

11:38

11:43



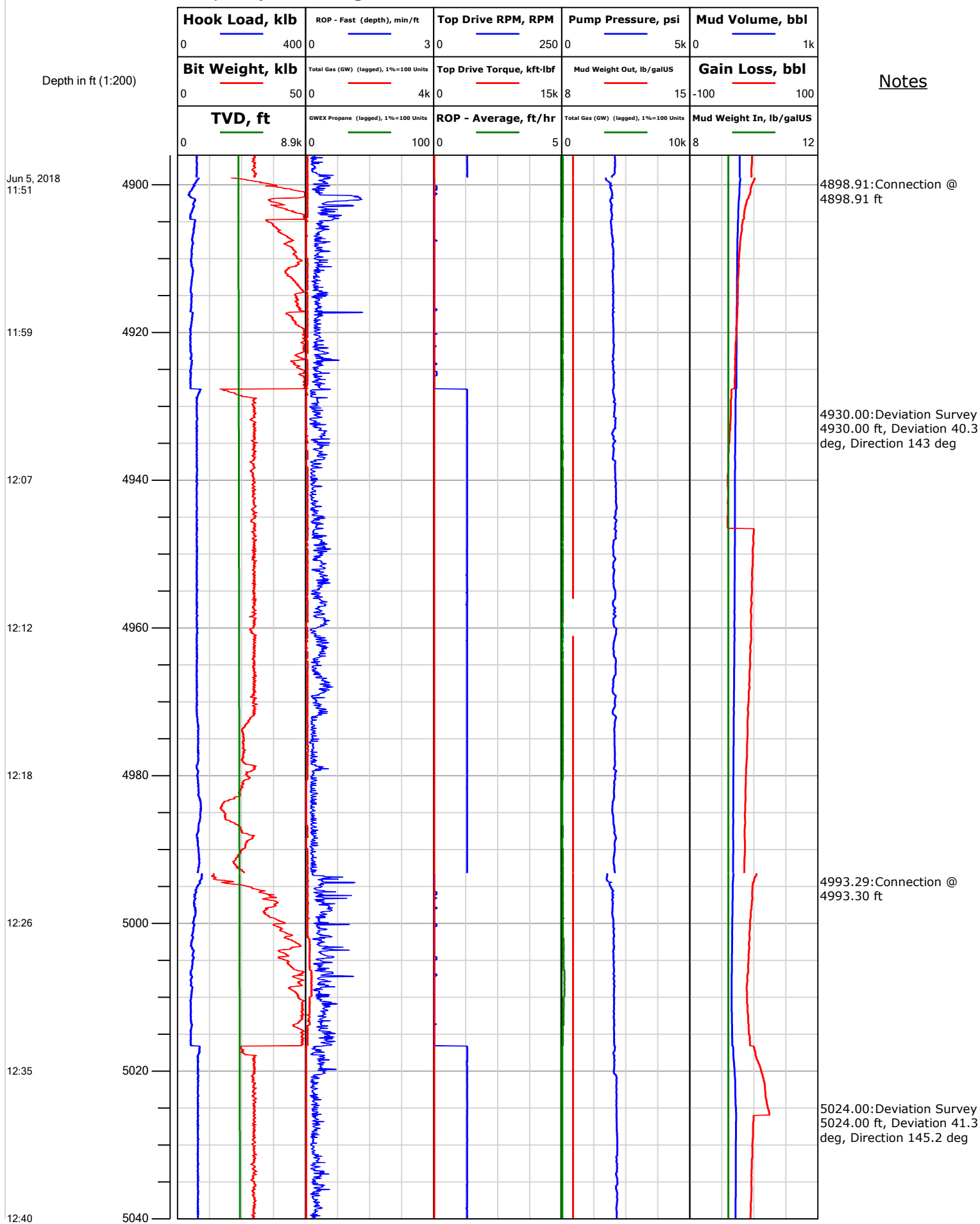


Electronic Drilling Recorder

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Well Name: Rig Mob to BCU 13-01 pad
Rig: 290

Location:





Electronic Drilling Recorder

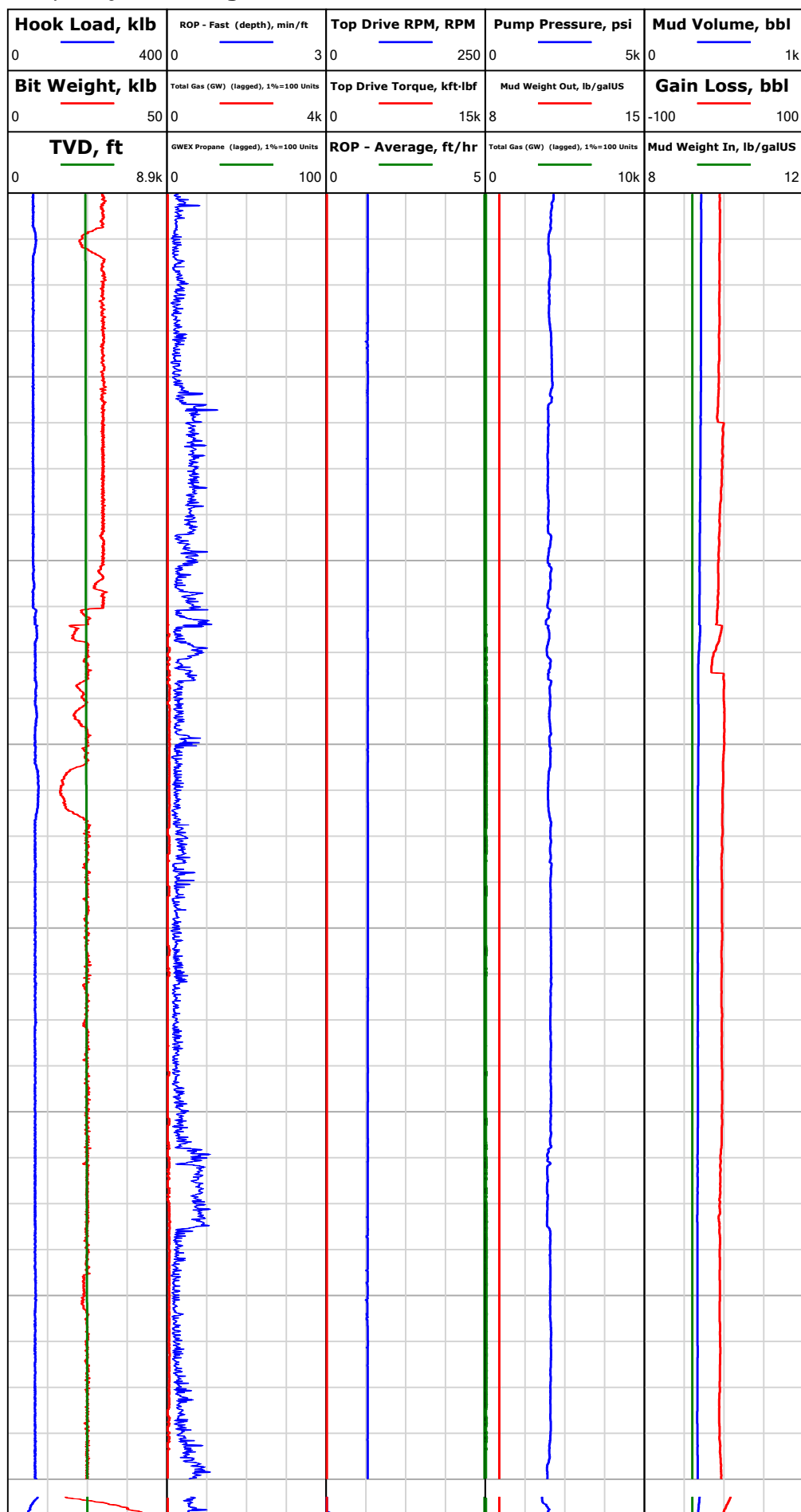
Operator: Laramie Energy
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Rig: 290

Location:

Depth in ft (1:200)

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Jun 5, 2018
12:43

12:52

13:01

13:05

13:09

13:16

13:21

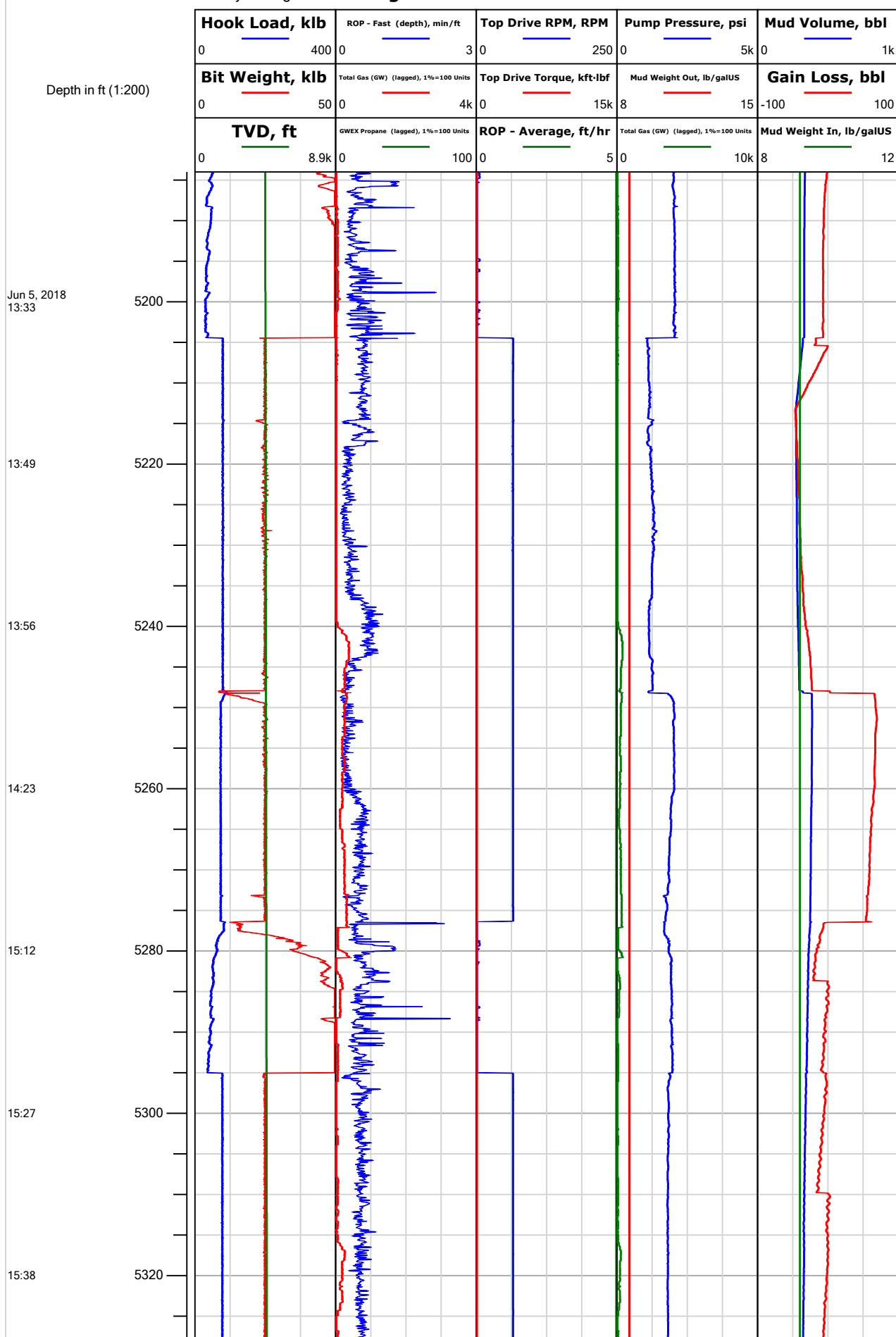


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Rig: 290

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Electronic Drilling Recorder

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Depth in ft (1:200)

Notes

Jun 5, 2018
15:48

15:57

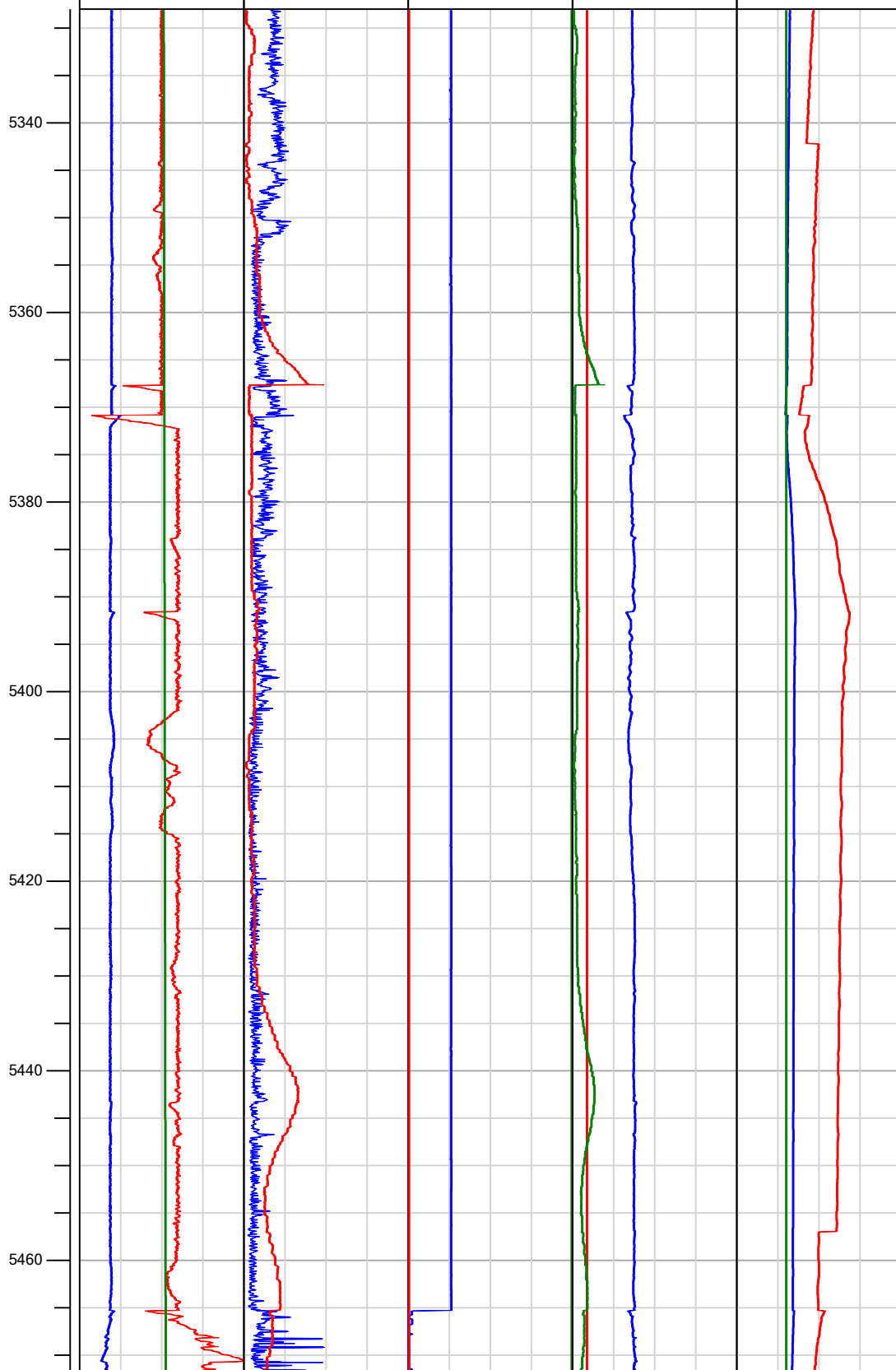
17:05

17:16

17:20

17:23

17:27



5370.76:Connection @
5370.76 ft

5402.00:Deviation Survey
5402.00 ft, Deviation 40.9
deg, Direction 145.2 deg

5465.43:Connection @
5465.43 ft



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Depth in ft (1:200)

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Jun 5, 2018
17:37

17:44

17:53

17:56

18:06

18:10

18:15

5480

5500

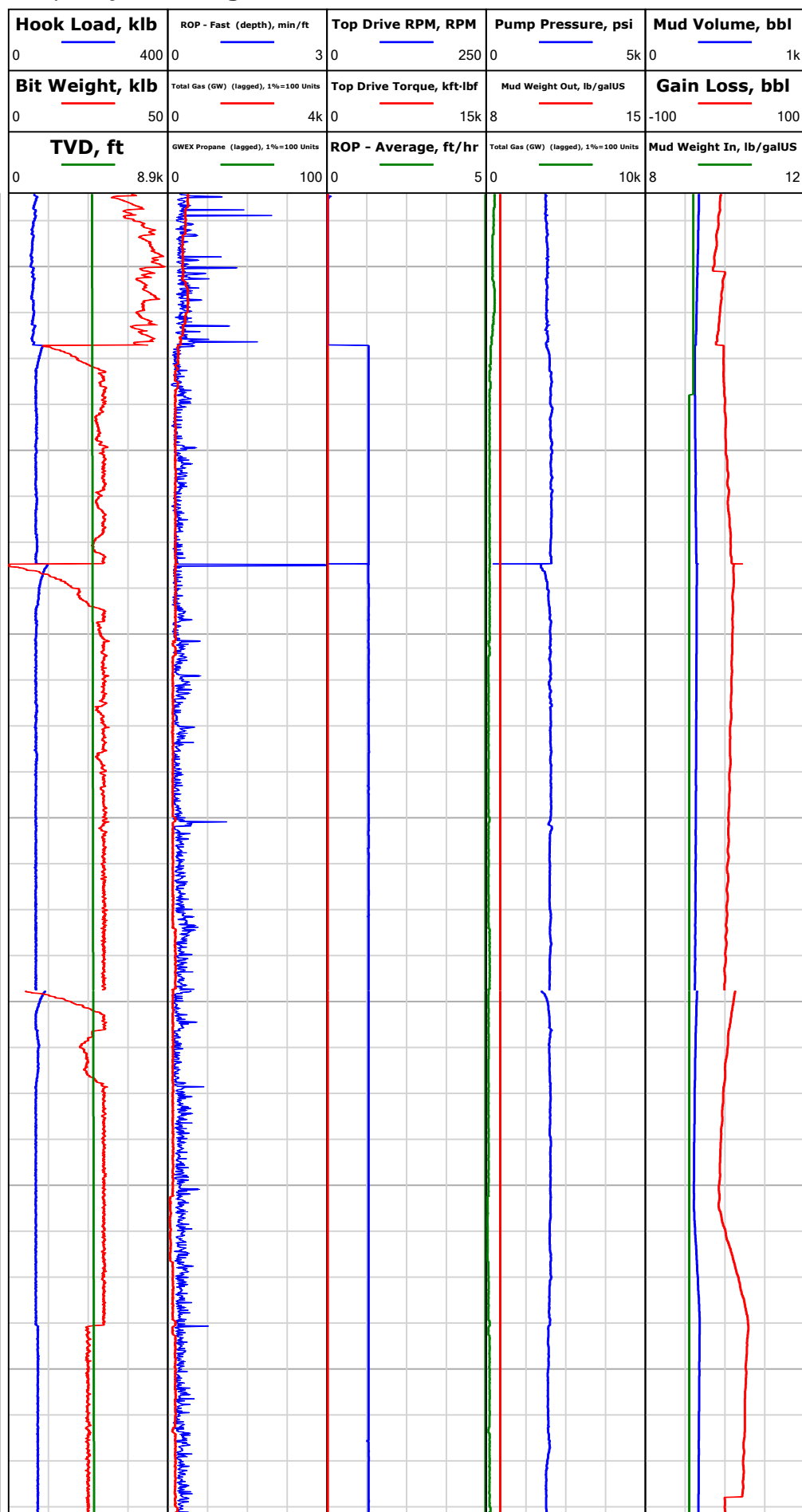
5520

5540

5560

5580

5600



5495.00: Deviation Survey
 5495.00 ft, Deviation 37.8 deg, Direction 143.3 deg

5558.84: Connection @
 5558.84 ft

5590.00: Deviation Survey
 5590.00 ft, Deviation 35.7 deg, Direction 141.9 deg
 5596.60: MD IN WT 8.8/33
 VIS OUT WT 9.2/32 VIS
 PH 9.2

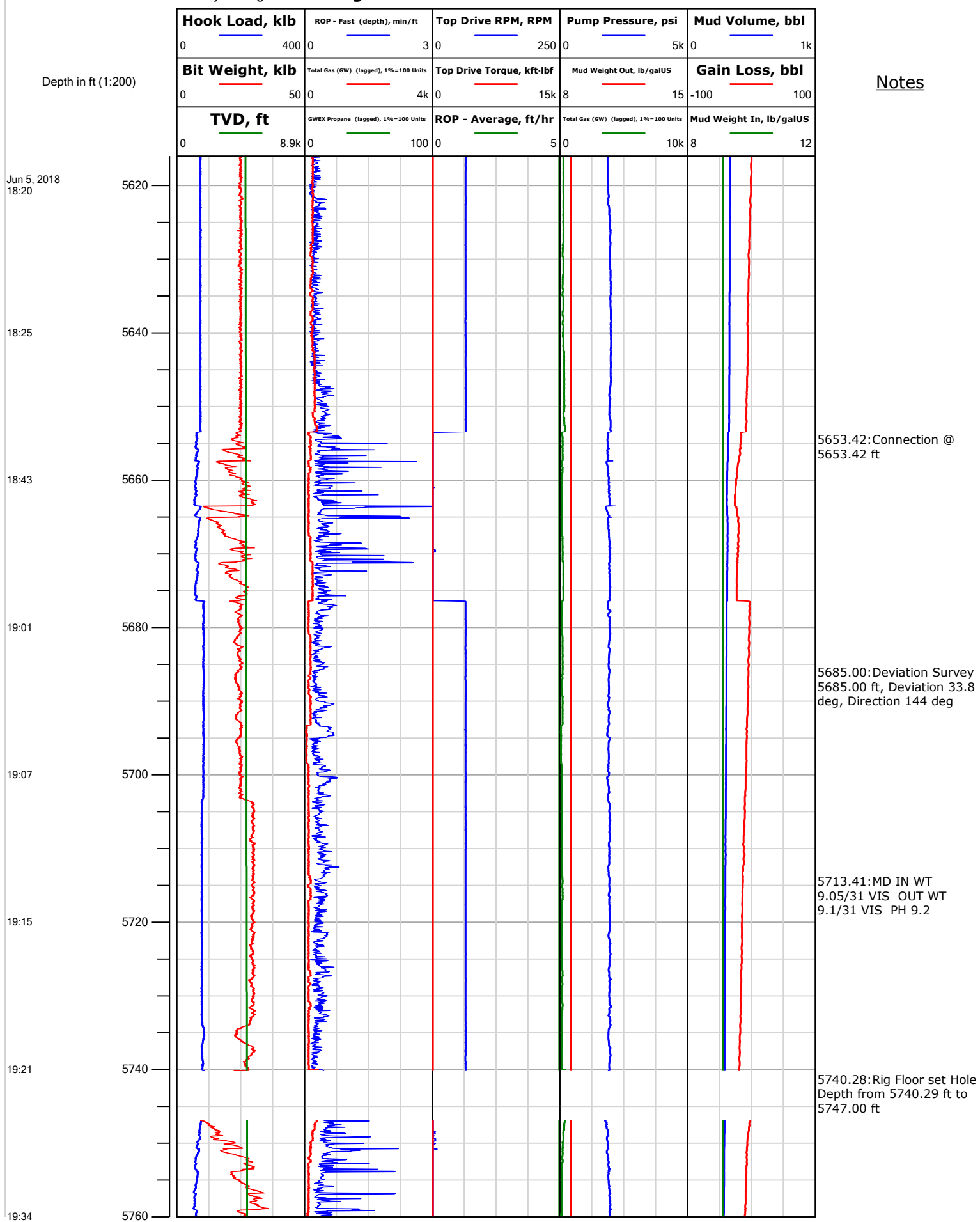


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Well Name: Rig Mob to BCU 13-01 pad
Rig: 290

Location:

Depth in ft (1:200)

Notes



Jun 5, 2018
 19:41

19:52

20:04

20:16

20:36

20:43

20:48

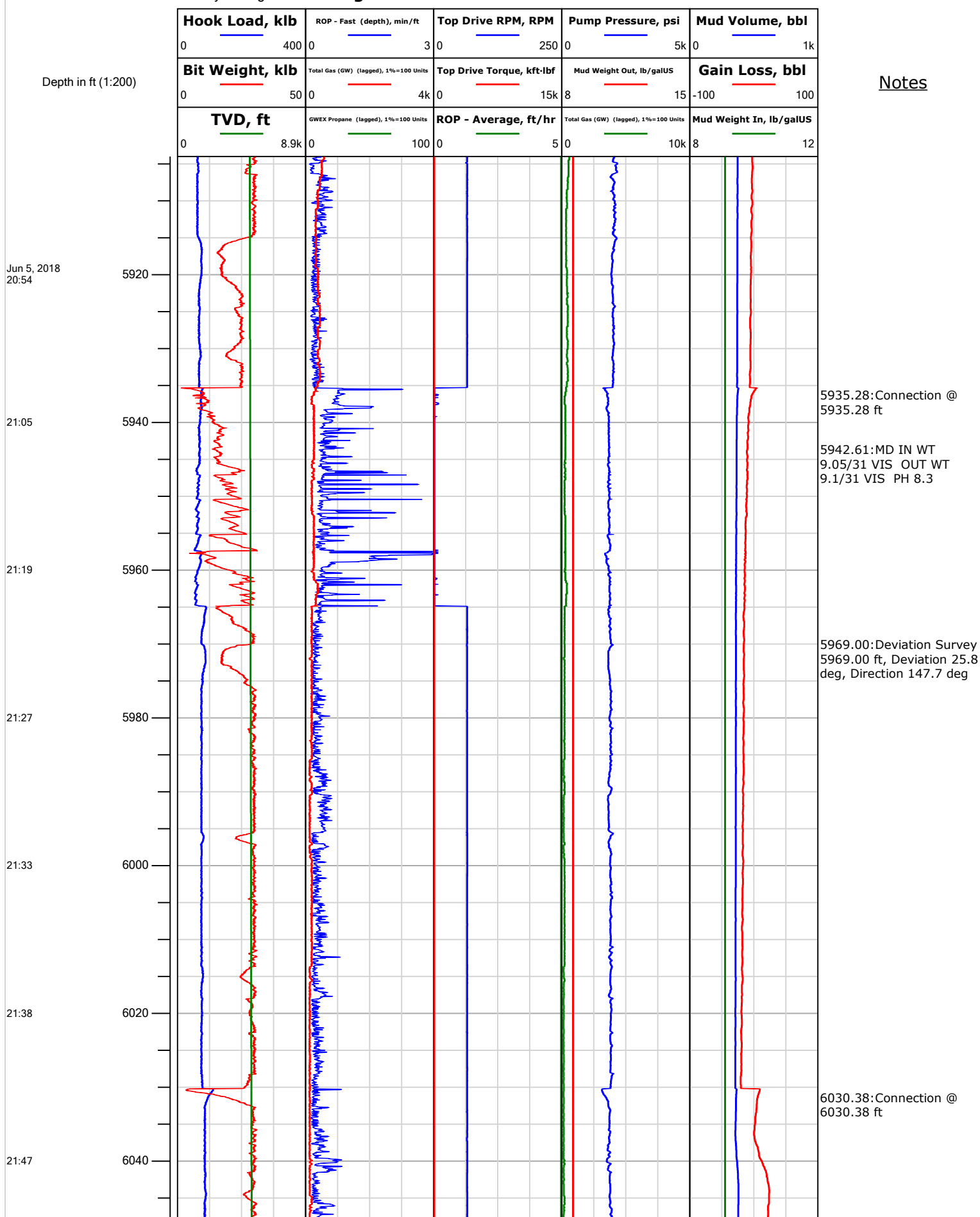


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Location:





Electronic Drilling Recorder

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Rig: 290

Location:

Depth in ft (1:200)

Notes

Jun 5, 2018
21:54

22:01

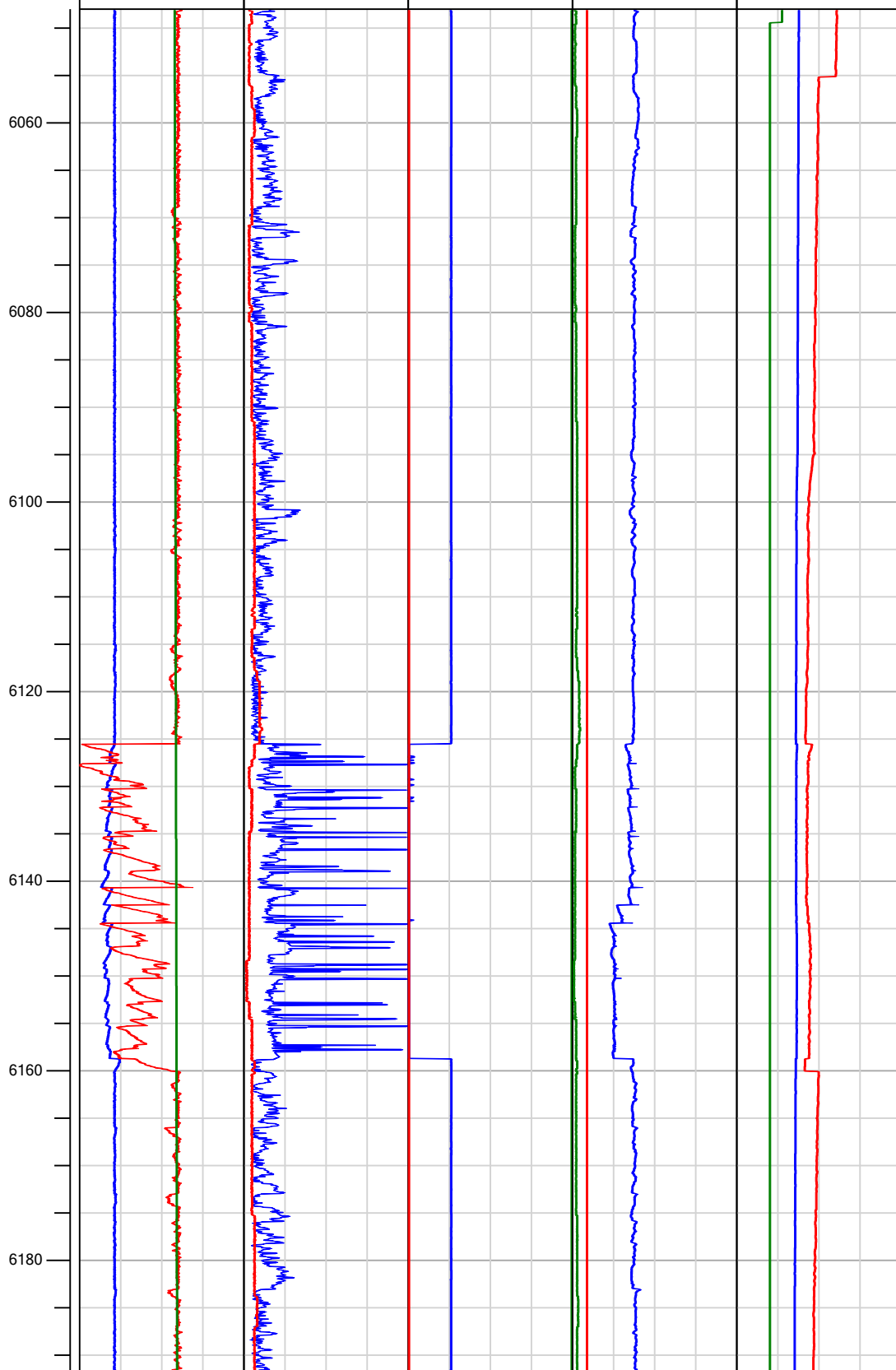
22:08

22:15

22:33

22:54

23:02



6063.00: Deviation Survey
 6063.00 ft, Deviation 25.2 deg, Direction 147.7 deg

6125.58: Connection @
 6125.58 ft

6158.00: Deviation Survey
 6158.00 ft, Deviation 22 deg, Direction 143.6 deg



Electronic Drilling Recorder

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Rig: 290

Location:

Depth in ft (1:200)

Notes

Jun 5, 2018
23:10

23:17

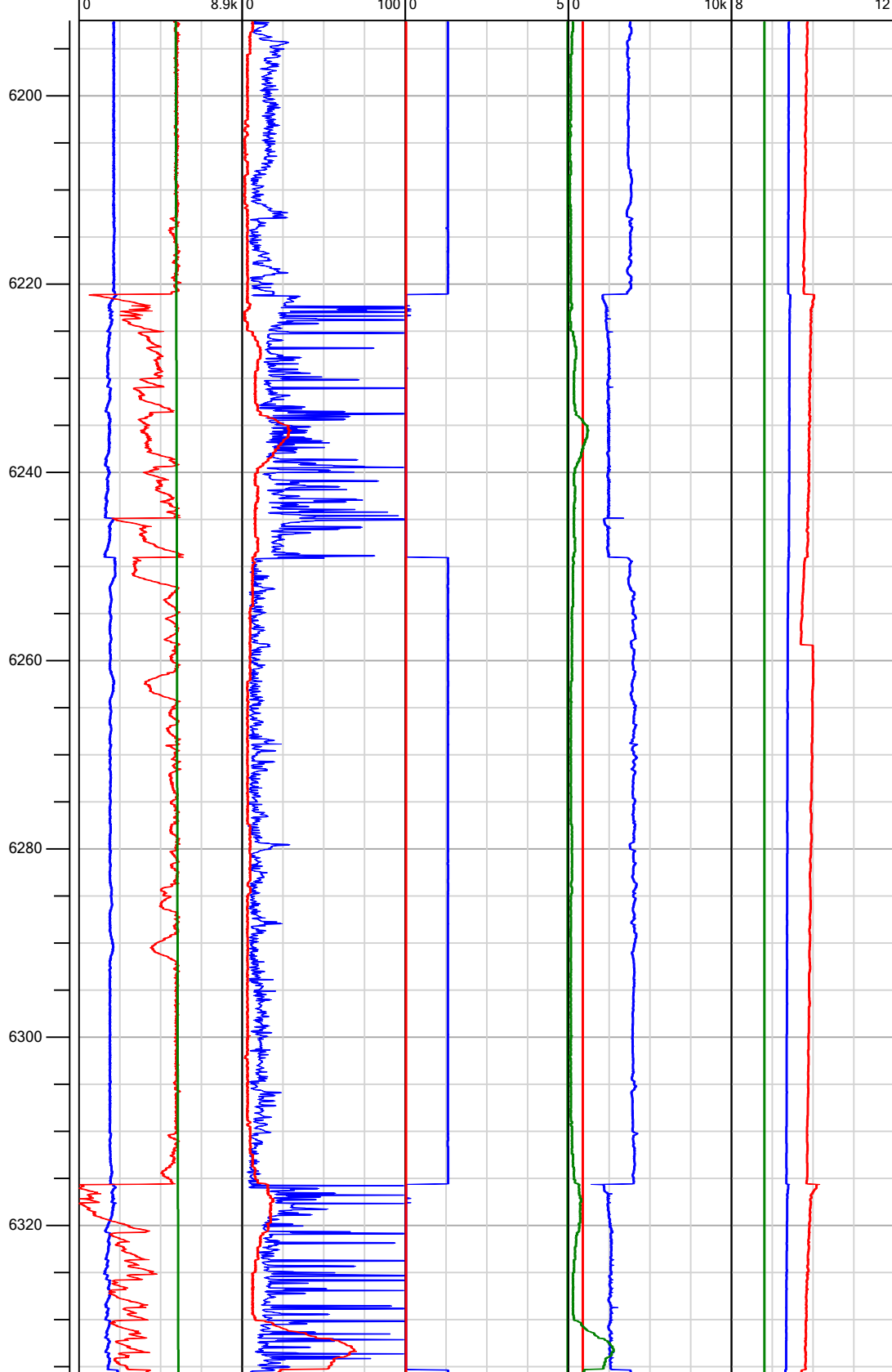
23:40

23:55

Jun 6, 2018
00:00

00:05

00:17



6221.05:Connection @
6221.05 ft

6252.00:Deviation Survey
6252.00 ft, Deviation 17.6
deg, Direction 142.6 deg

6287.14:MD IN WT
9.05/32 VIS OUT WT
9.2/32 VIS PH 8.9

6315.76:Connection @
6315.76 ft

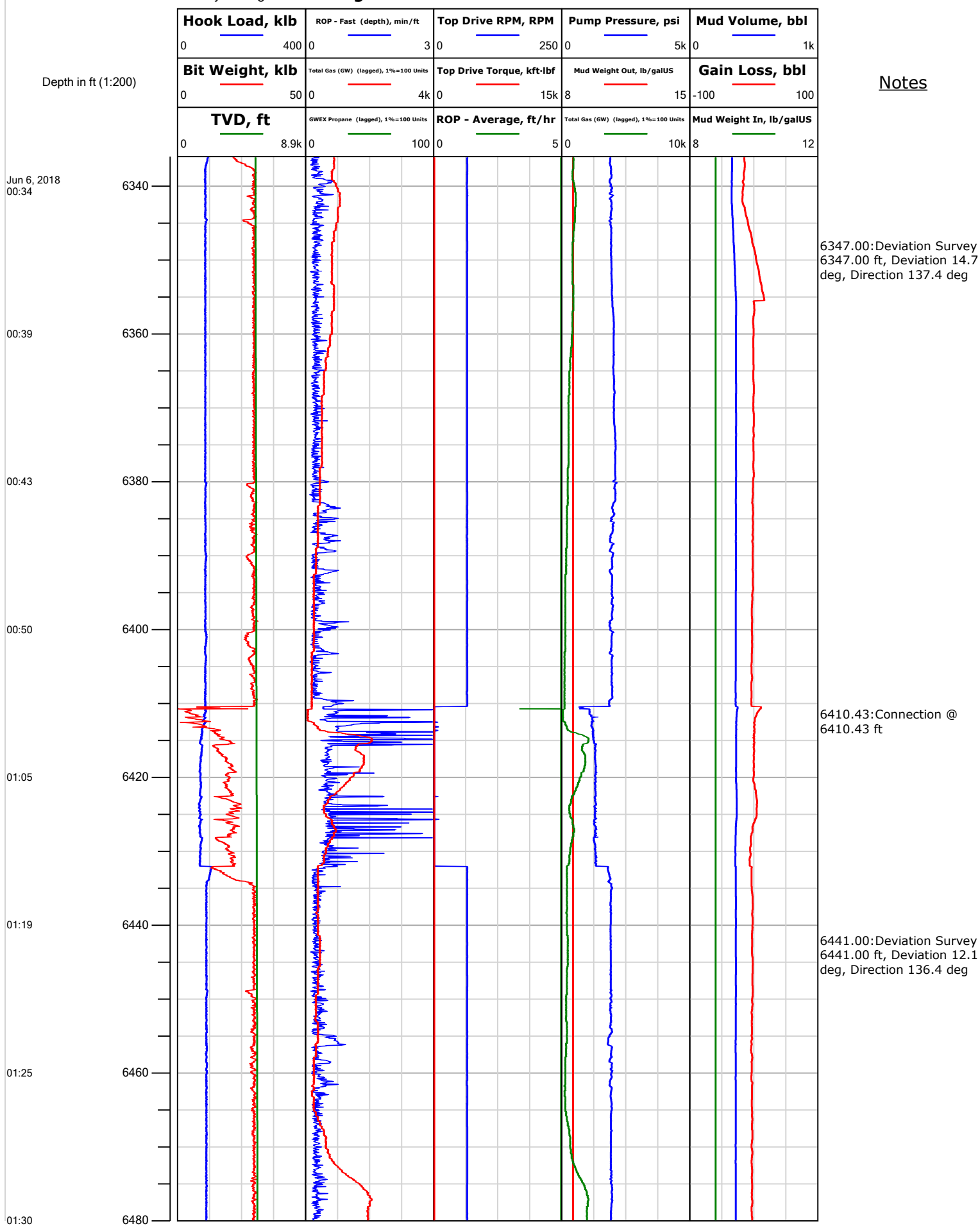


Electronic Drilling Recorder

Operator: Laramie Energy
Contractor: Helmerich & Payne Drlg Co

Well Name: Rig Mob to BCU 13-01 pad
Rig: 290

Location:





Electronic Drilling Recorder

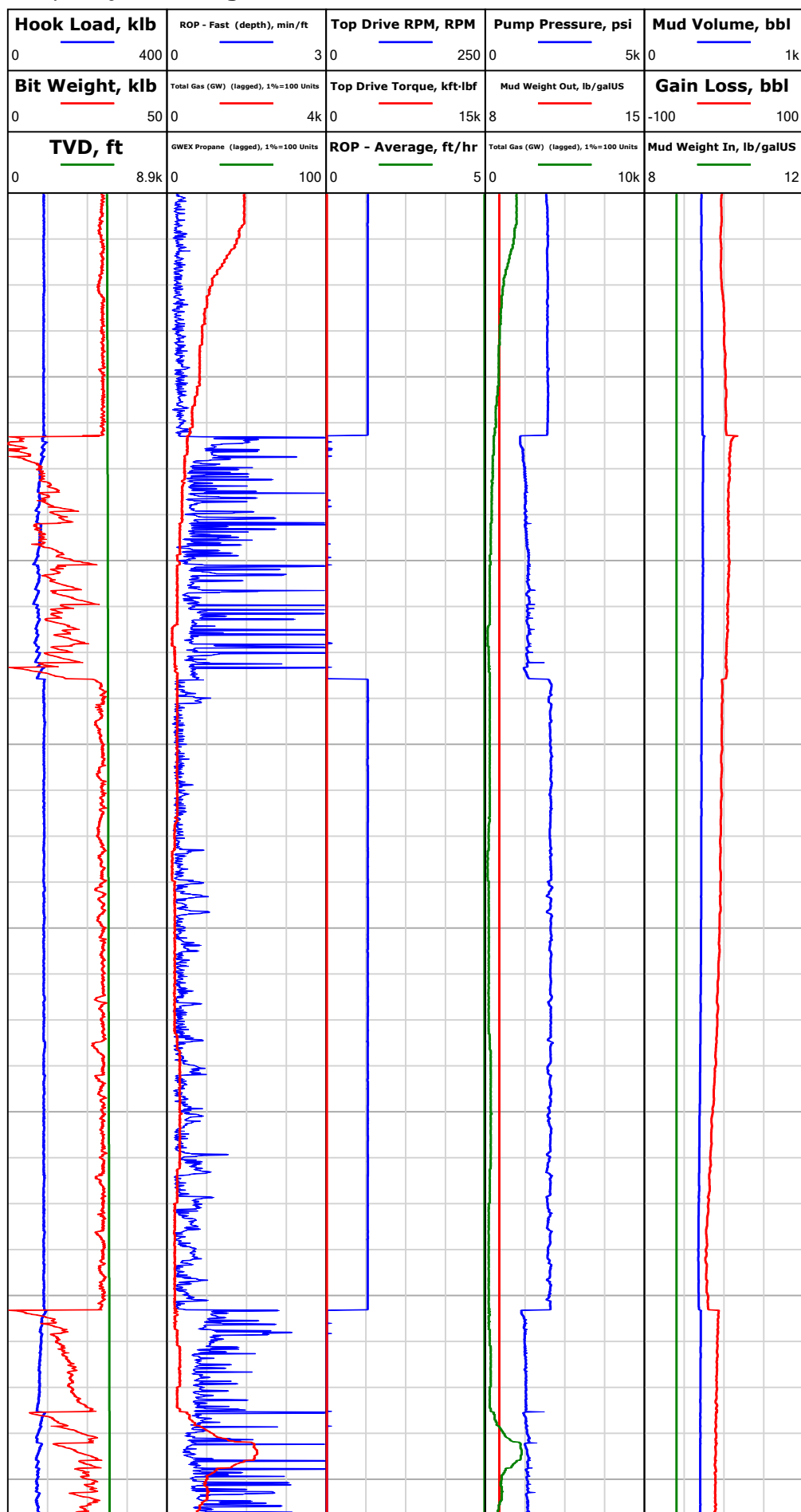
Operator: Laramie Energy
Contractor: Helmerich & Payne Drlg Co

Well Name: Rig Mob to BCU 13-01 pad
Rig: 290

Location:

Depth in ft (1:200)

Notes



Jun 6, 2018
01:34

01:52

02:11

02:16

02:21

02:28

02:50

6497.77:TRANSFER FR/
STORAGE TANK 3 TO
SLUG TANK

6506.28:Connection @
6506.28 ft

6536.00:Deviation Survey
6536.00 ft, Deviation 10
deg, Direction 134.7 deg

6601.67:Connection @
6601.67 ft

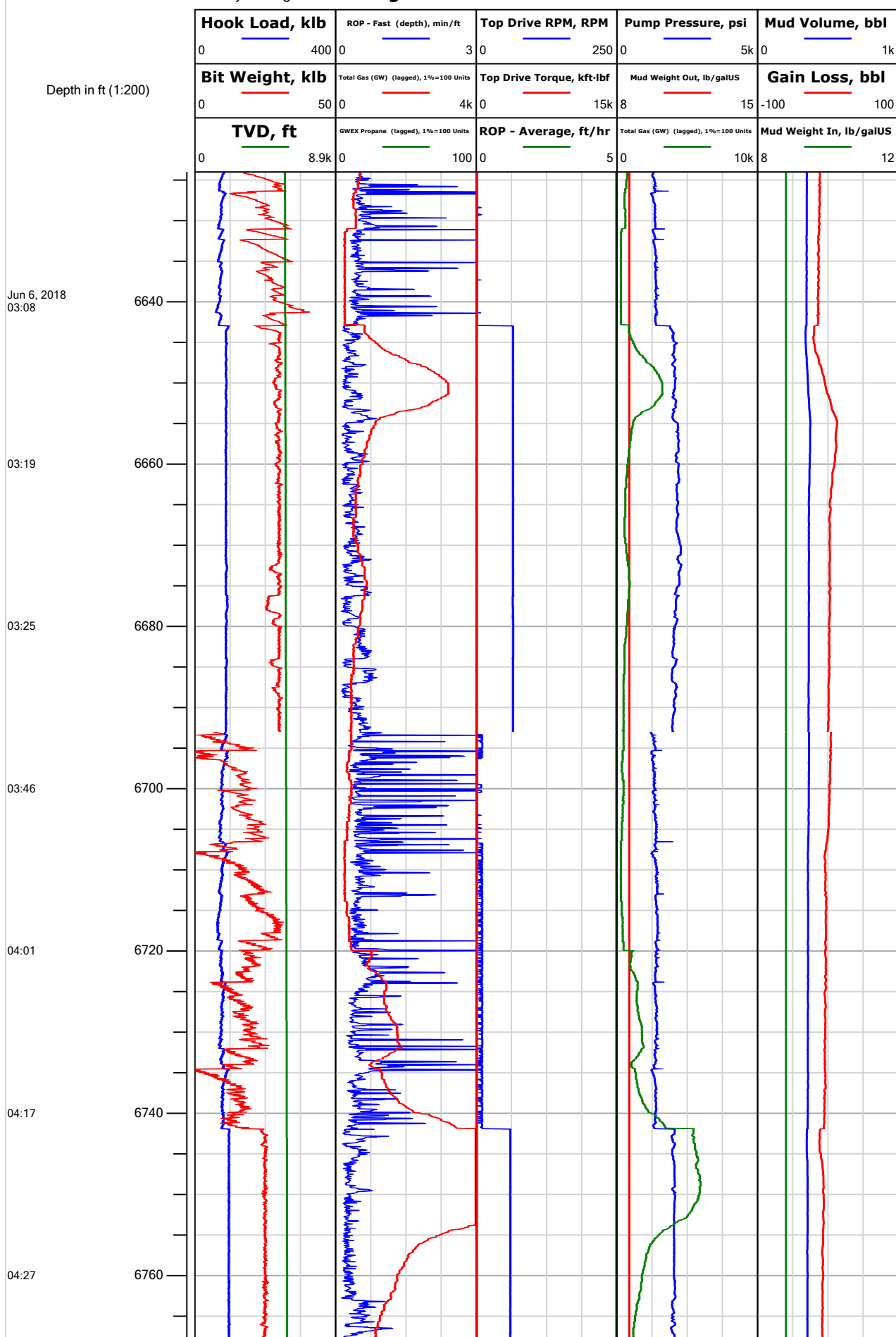


Electronic Drilling Recorder

Operator: Laramie Energy
Contractor: Helmerich & Payne Drlg Co

Well Name: Rig Mob to BCU 13-01 pad
Rig: 290

Location:



Notes

6630.00: Deviation Survey
 6630.00 ft, Deviation 7.5 deg, Direction 125.3 deg

6637.42: MD IN WT
 9.15/32 VIS OUT WT
 9.0/31 VIS PH 8.8

6698.92: Rig Floor set Hole
 Depth from 6698.71 ft to 6693.00 ft

6725.00: Deviation Survey
 6725.00 ft, Deviation 4.6 deg, Direction 114.3 deg
 6729.69: MD IN WT 9.1/32
 VIS OUT WT 9.15/31 VIS
 PH 8.7

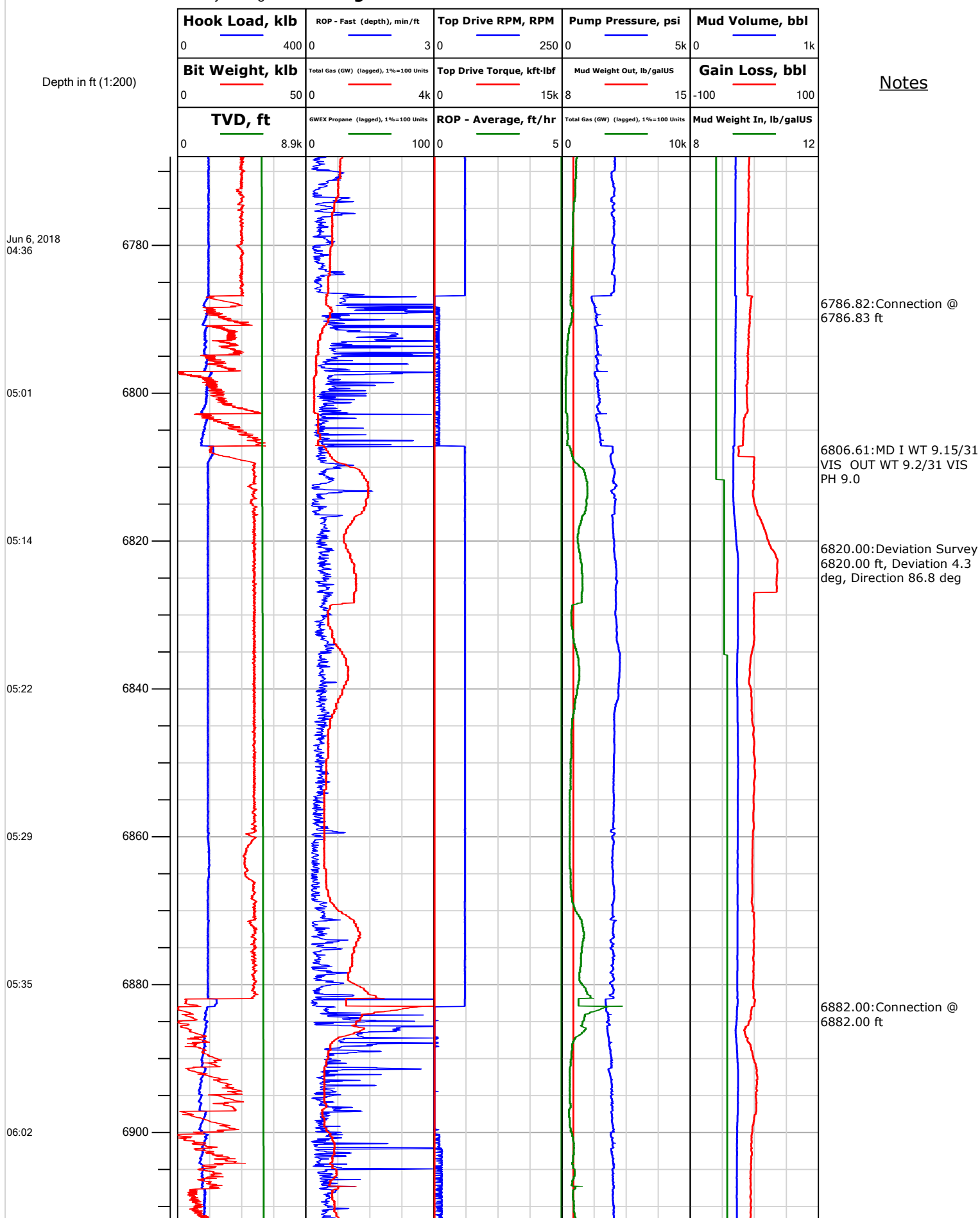


Electronic Drilling Recorder

Operator: Laramie Energy
Contractor: Helmerich & Payne Drlg Co

Well Name: Rig Mob to BCU 13-01 pad
Rig: 290

Location:



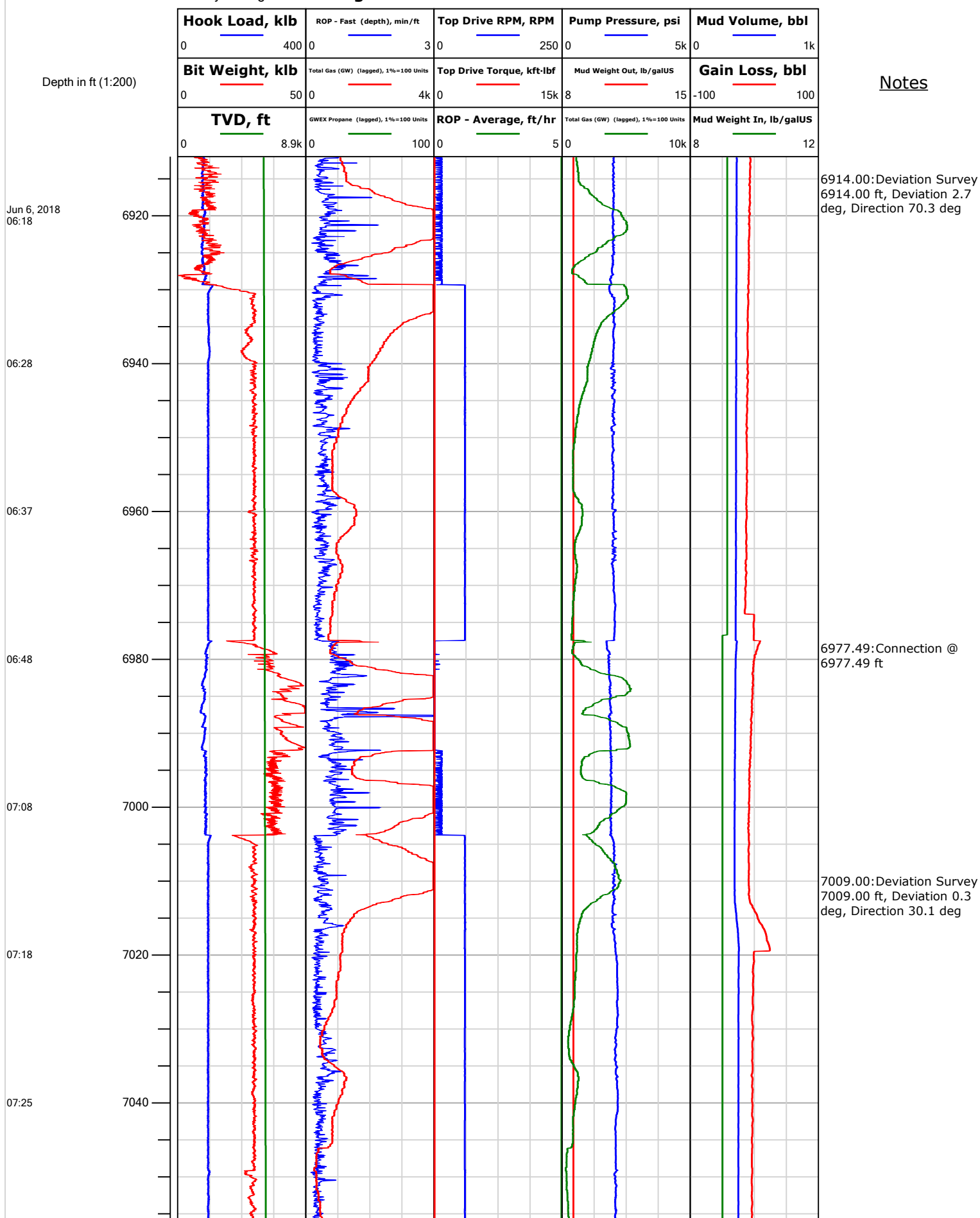


Electronic Drilling Recorder

Operator: Laramie Energy
Contractor: Helmerich & Payne Drlg Co

Well Name: Rig Mob to BCU 13-01 pad
Rig: 290

Location:





Electronic Drilling Recorder

Operator: Laramie Energy
Contractor: Helmerich & Payne Drlg Co

Well Name: Rig Mob to BCU 13-01 pad
Rig: 290

Location:

Depth in ft (1:200)

Notes

Jun 6, 2018
07:31

07:42

07:48

07:54

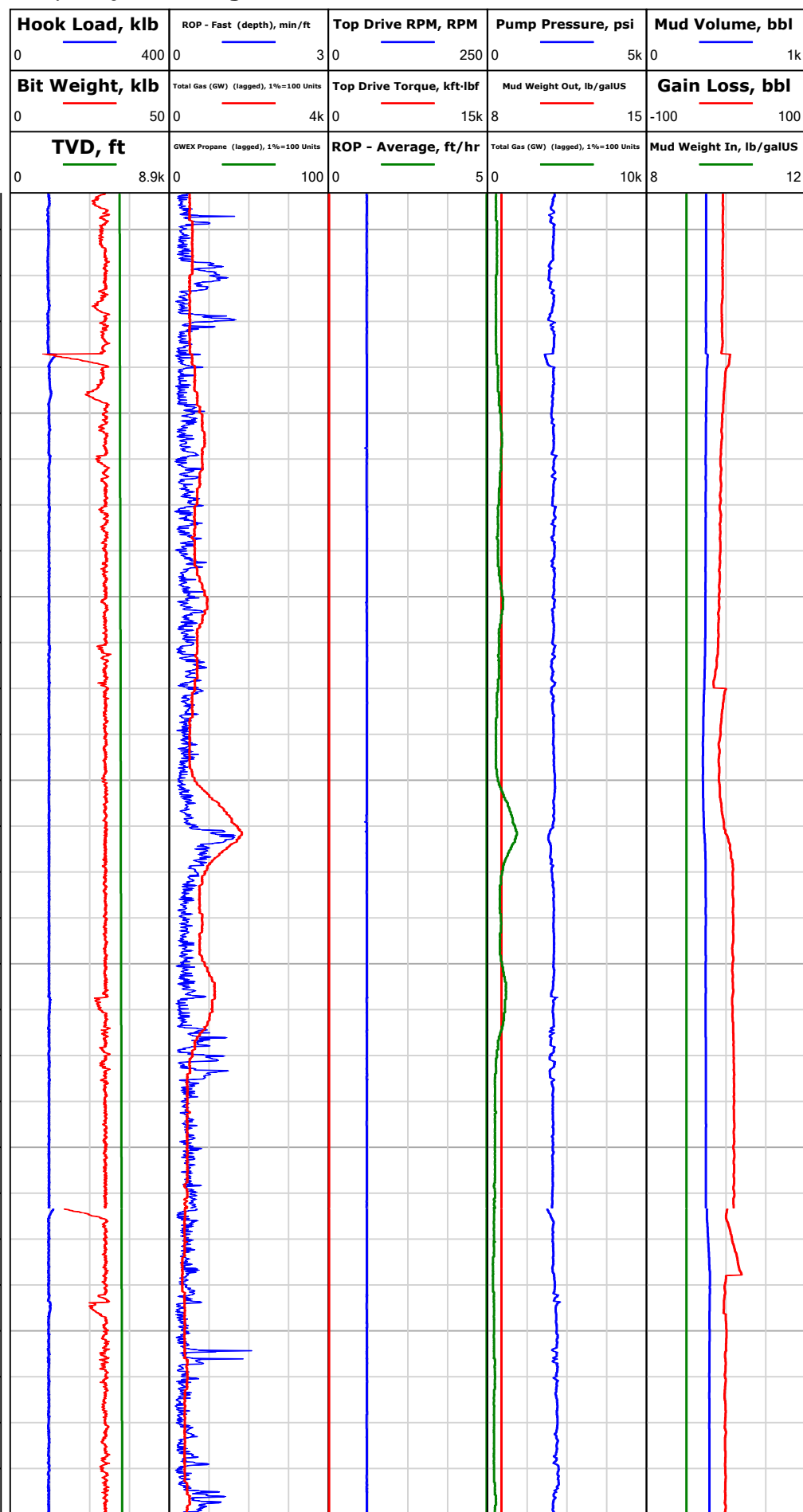
08:02

08:10

08:21

08:28

7060
7080
7100
7120
7140
7160
7180
7200



7073.45:Connection @
7073.45 ft

7103.00:Deviation Survey
7103.00 ft, Deviation 0.31
deg, Direction 222.98 deg

7166.80:Connection @
7166.81 ft



Electronic Drilling Recorder

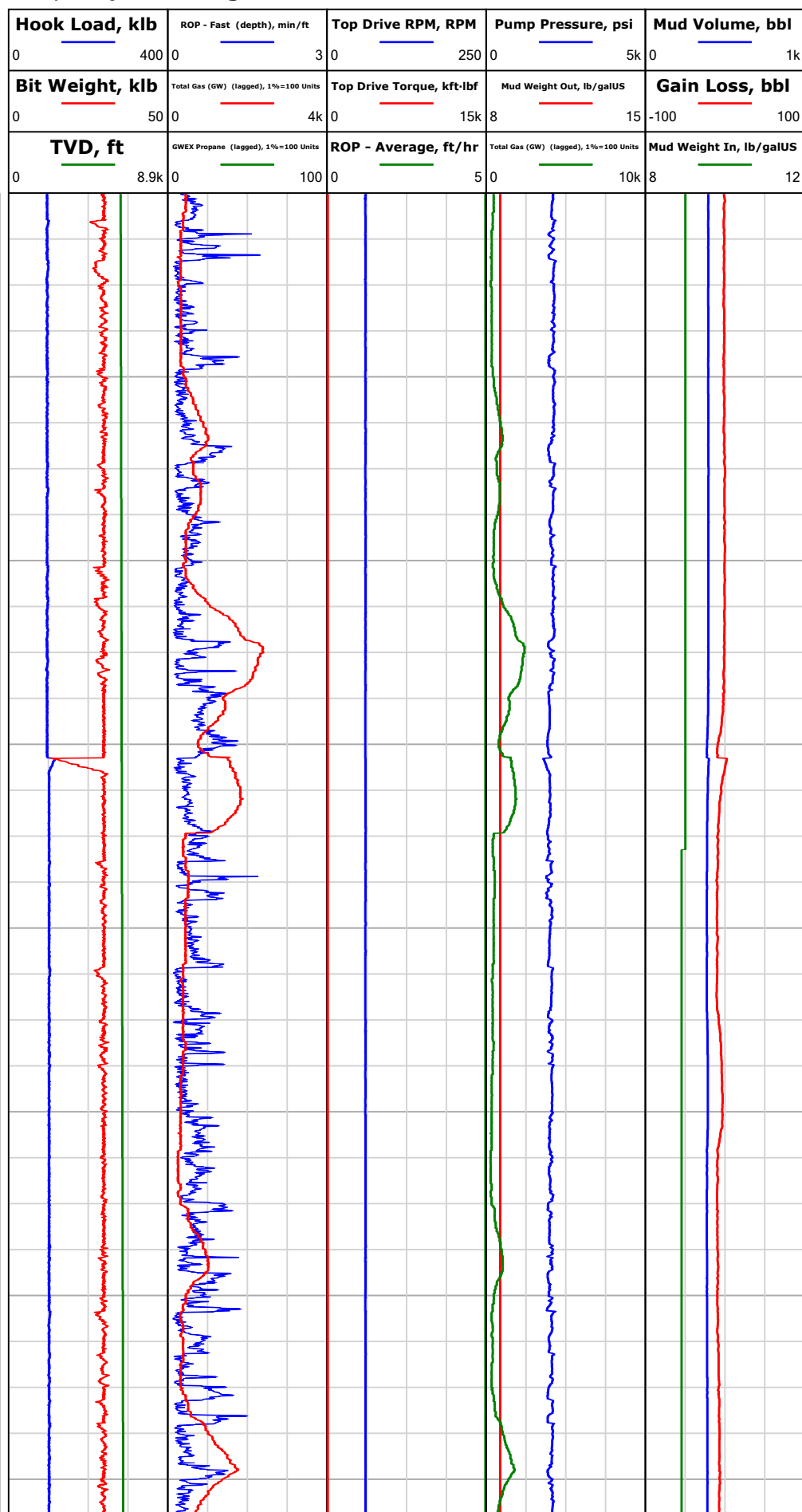
Operator: Laramie Energy
Contractor: Helmerich & Payne Drlg Co

Well Name: Rig Mob to BCU 13-01 pad
Rig: 290

Location:

Depth in ft (1:200)

Notes



Jun 6, 2018
08:36

08:43

08:53

09:09

09:16

09:27

09:37

7261.52: Connection @
7261.52 ft

7293.00: Deviation Survey
7293.00 ft, Deviation 0.18
deg, Direction 65.92 deg
7293.00: Deviation Survey
7293.00 ft, Deviation 0.18
deg, Direction 65.92 deg
7293.00: Deviation Survey
7293.00 ft, Deviation 0.48
deg, Direction 225.26 deg



Electronic Drilling Recorder

Operator: Laramie Energy
Contractor: Helmerich & Payne Drlg Co

Well Name: Rig Mob to BCU 13-01 pad
Rig: 290

Location:

Depth in ft (1:200)

Notes

Jun 6, 2018
09:52

10:00

10:08

10:14

10:26

10:42

10:51

7360

7380

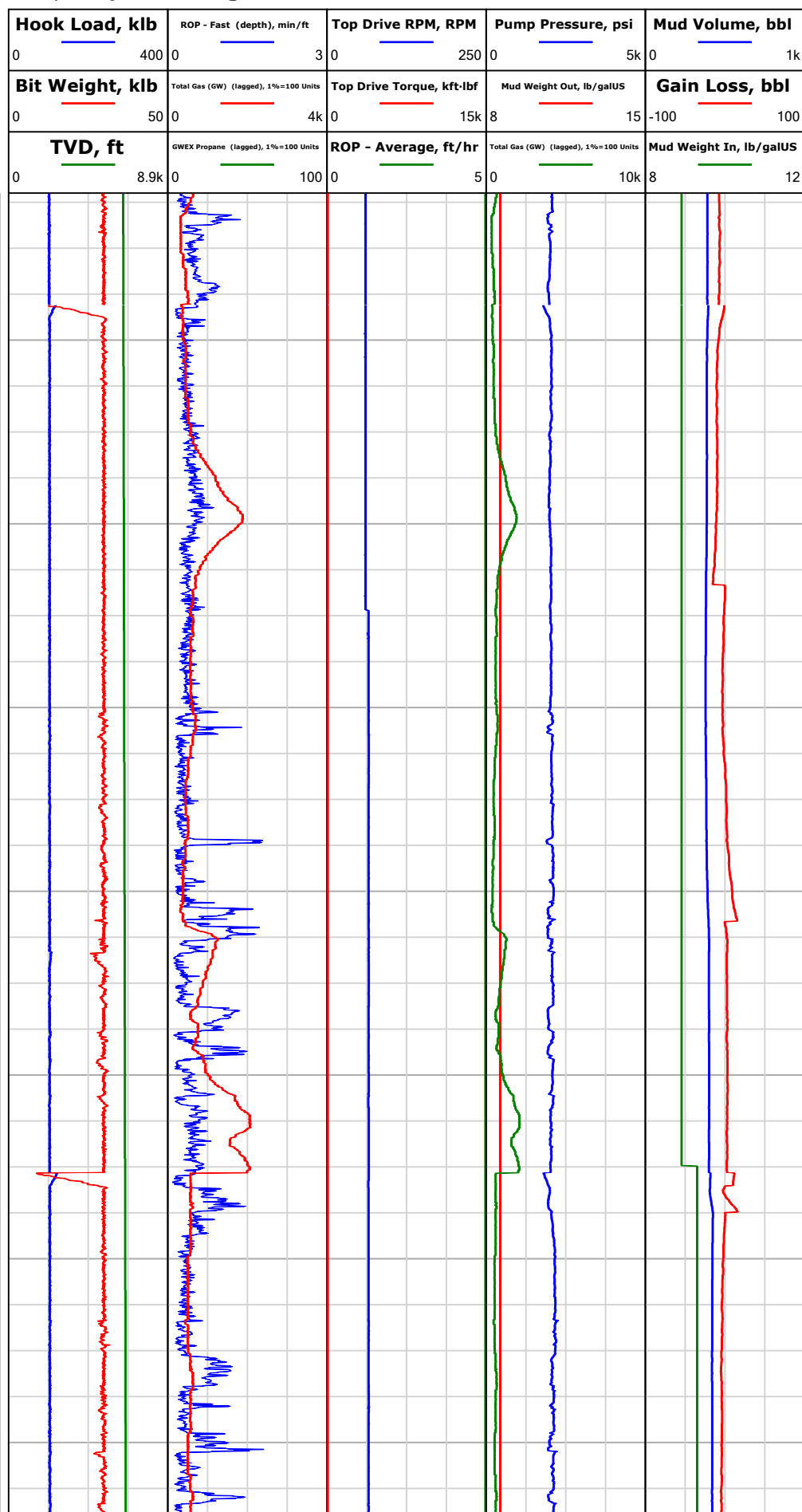
7400

7420

7440

7460

7480



7356.12:Connection @
7356.12 ft

7387.00:Deviation Survey
7387.00 ft, Deviation 0.31
deg, Direction 69.69 deg

7450.77:Connection @
7450.77 ft

7482.00:Deviation Survey
7482.00 ft, Deviation 0.57
deg, Direction 63.02 deg



Electronic Drilling Recorder

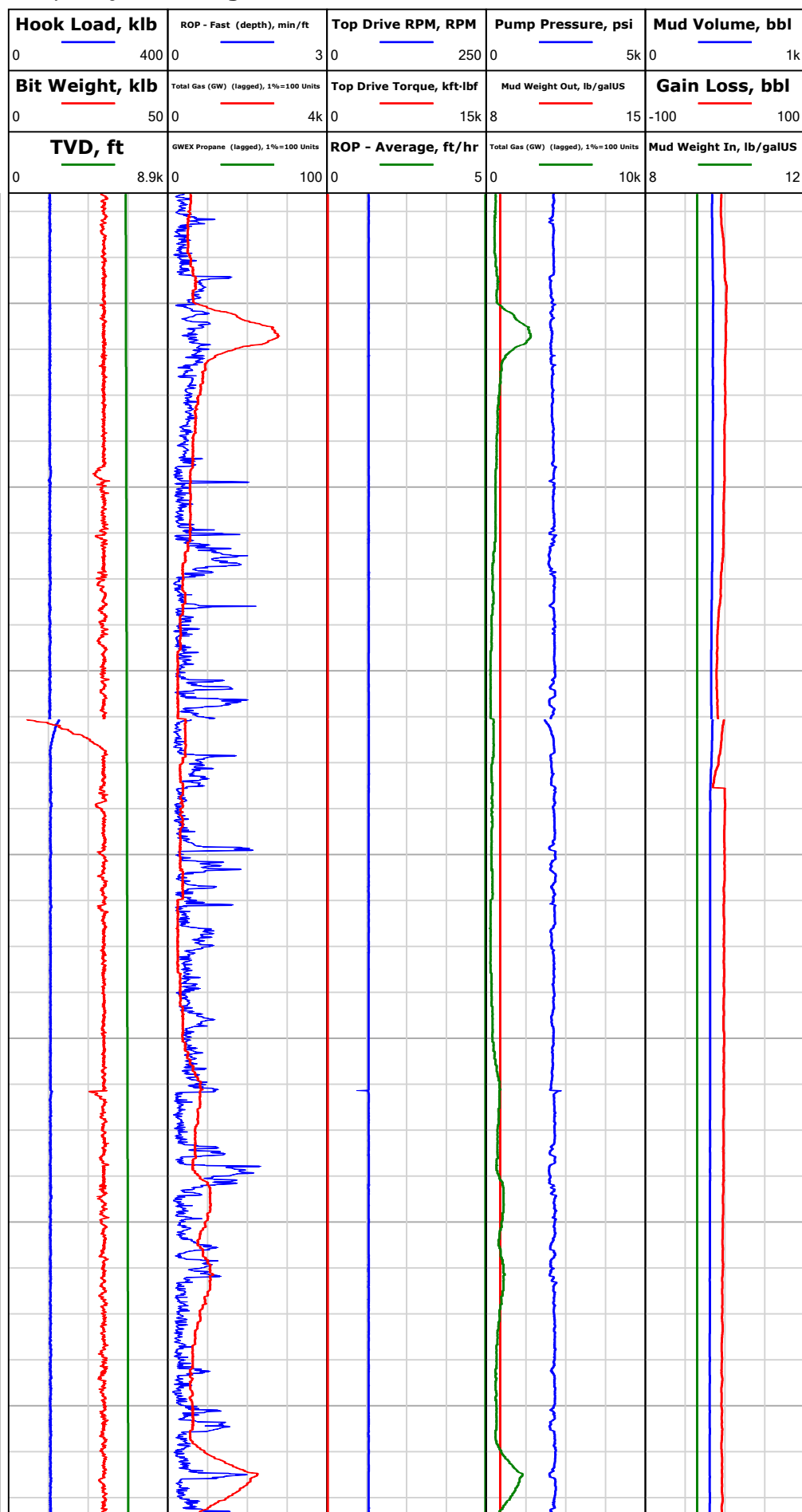
Operator: Laramie Energy
Contractor: Helmerich & Payne Drlg Co

Well Name: Rig Mob to BCU 13-01 pad
Rig: 290

Location:

Depth in ft (1:200)

Notes



Jun 6, 2018
10:59

11:07

11:14

11:30

11:38

11:47

11:54

7545.21: Connection @
7545.21 ft

7576.00: Deviation Survey
7576.00 ft, Deviation 0.92
deg, Direction 52.91 deg



Electronic Drilling Recorder

Operator: Laramie Energy
Contractor: Helmerich & Payne Drlg Co

Well Name: Rig Mob to BCU 13-01 pad
Rig: 290

Location:

Depth in ft (1:200)

Notes

Jun 6, 2018
12:10

12:29

12:39

12:47

12:57

13:13

13:39

7640

7660

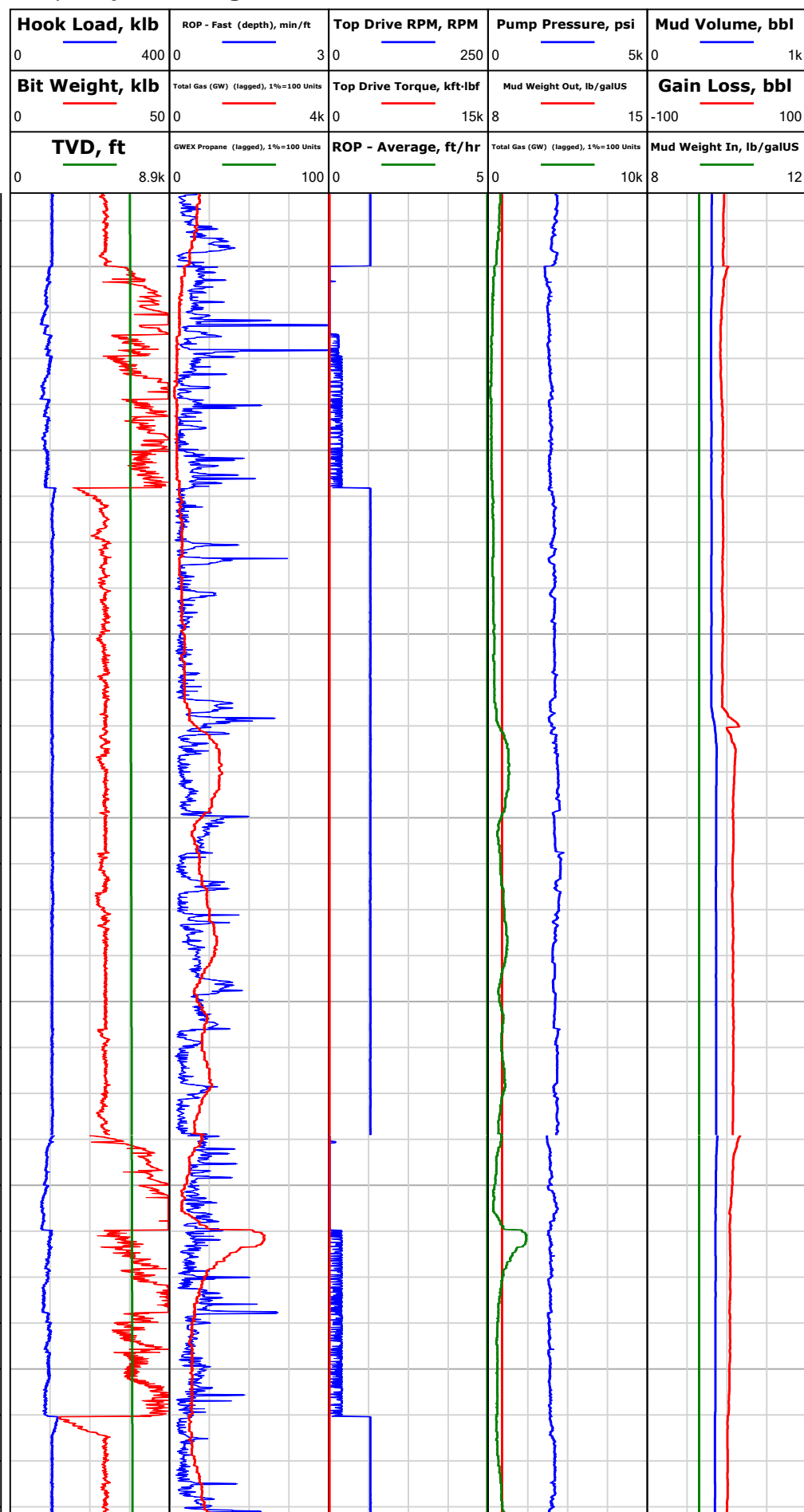
7680

7700

7720

7740

7760



7639.82:Connection @
7639.82 ft

7671.00:Deviation Survey
7671.00 ft, Deviation 0.5
deg, Direction 50.5 deg

7734.63:Connection @
7734.63 ft

7766.00:Deviation Survey
7766.00 ft, Deviation 1.6
deg, Direction 227.6 deg



Electronic Drilling Recorder

Operator: Laramie Energy
Contractor: Helmerich & Payne Drlg Co

Well Name: Rig Mob to BCU 13-01 pad
Rig: 290

Location:

Depth in ft (1:200)

Notes

Jun 6, 2018
13:50

13:59

14:05

14:25

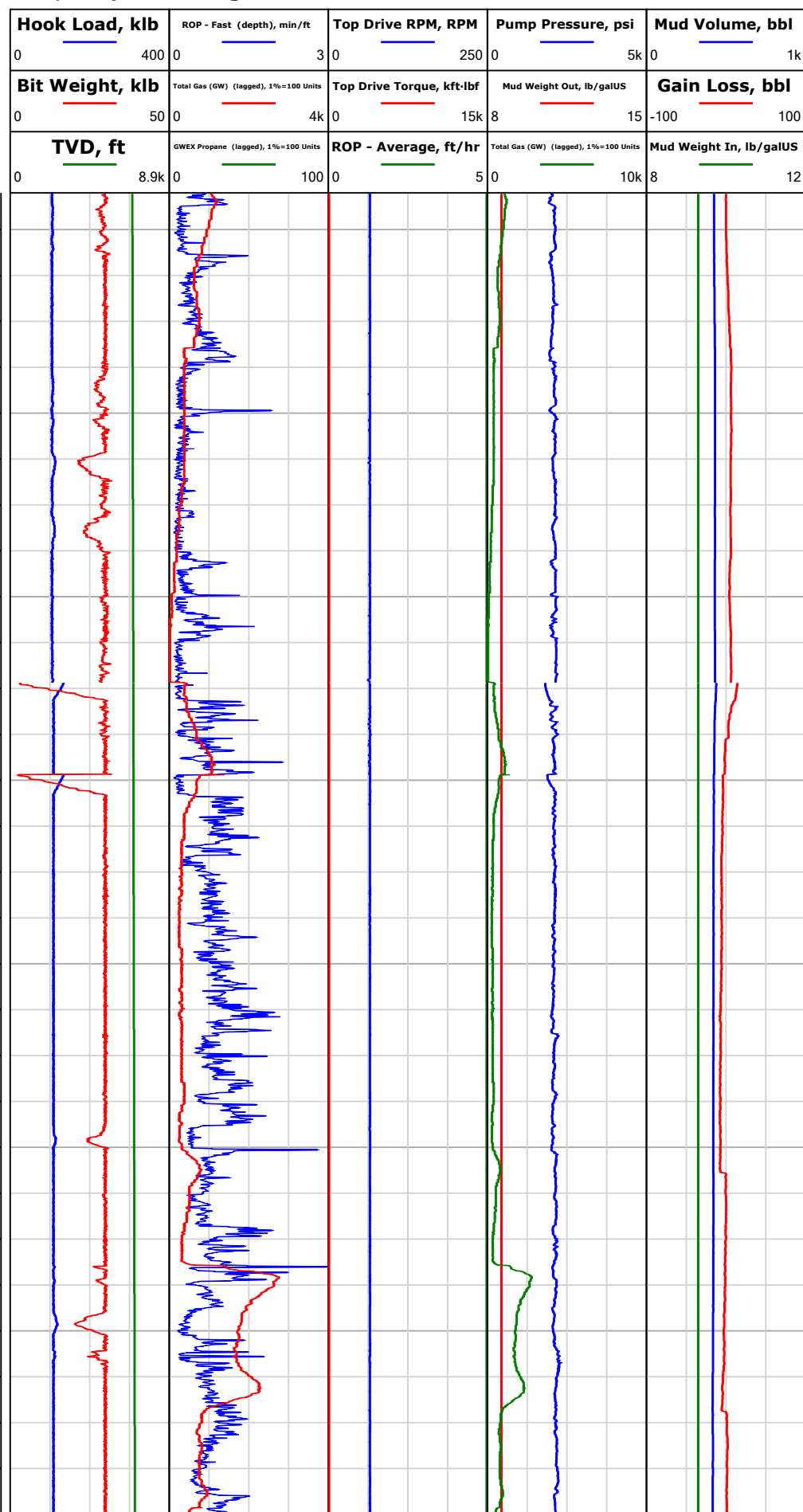
14:41

15:00

15:16

15:31

7780
7800
7820
7840
7860
7880
7900
7920



7829.35: Connection @
7829.35 ft

7860.99: Deviation Survey
7861.00 ft, Deviation 2.29
deg, Direction 213.4 deg

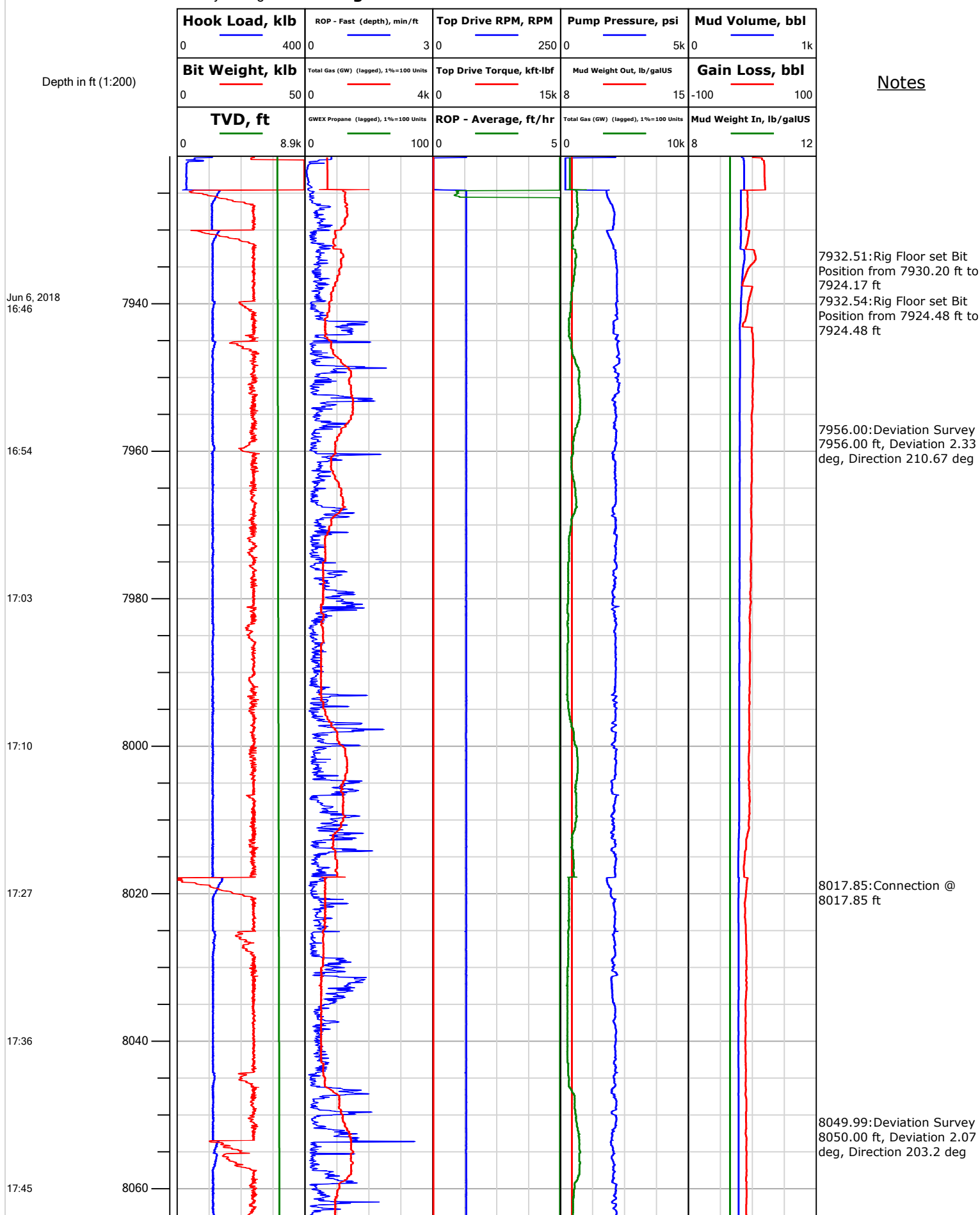


Electronic Drilling Recorder

Operator: Laramie Energy
Contractor: Helmerich & Payne Drlg Co

Well Name: Rig Mob to BCU 13-01 pad
Rig: 290

Location:





Electronic Drilling Recorder

Operator: Laramie Energy
Contractor: Helmerich & Payne Drlg Co

Well Name: Rig Mob to BCU 13-01 pad
Rig: 290

Location:

Depth in ft (1:200)

Notes

Jun 6, 2018
17:52

18:00

18:15

18:28

18:35

18:50

18:58

8080

8100

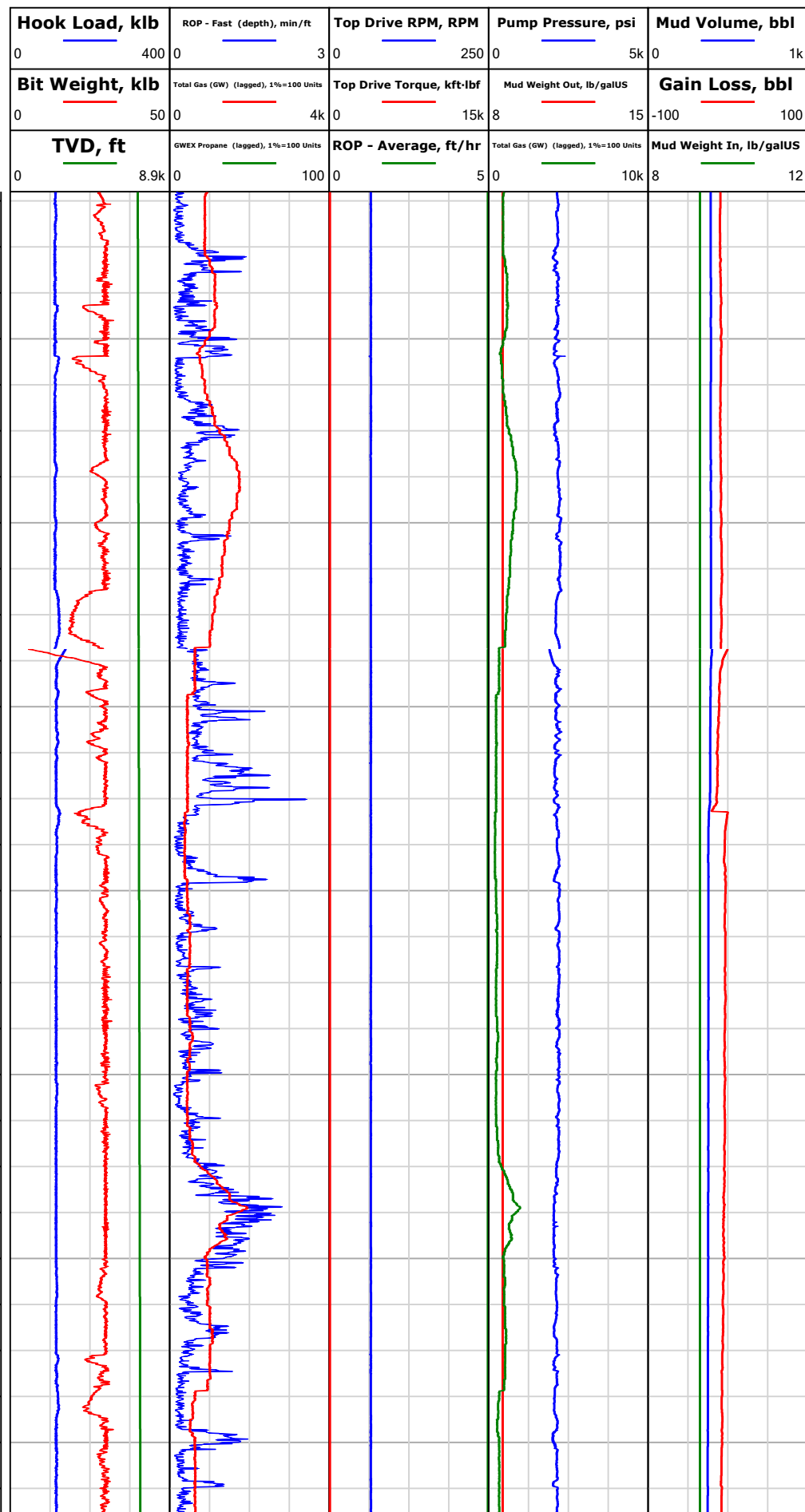
8120

8140

8160

8180

8200



8113.74:Connection @
8113.74 ft

8145.00:Deviation Survey
8145.00 ft, Deviation 2.02
deg, Direction 202.41 deg

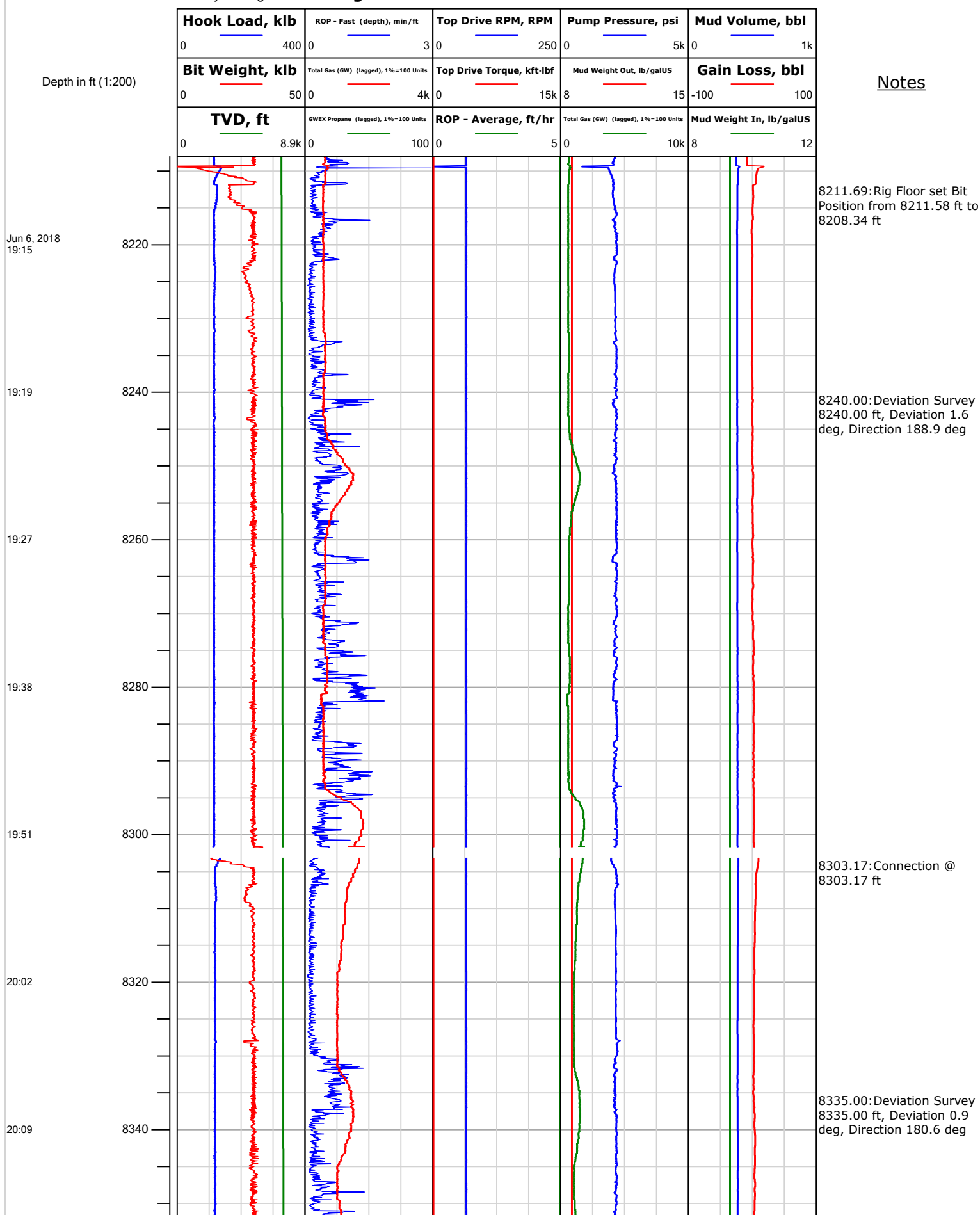


Electronic Drilling Recorder

Operator: Laramie Energy
Contractor: Helmerich & Payne Drlg Co

Well Name: Rig Mob to BCU 13-01 pad
Rig: 290

Location:





Electronic Drilling Recorder

Operator: Laramie Energy
Contractor: Helmerich & Payne Drlg Co

Well Name: Rig Mob to BCU 13-01 pad
Rig: 290

Location:

Depth in ft (1:200)

Notes

Jun 6, 2018
20:17

20:27

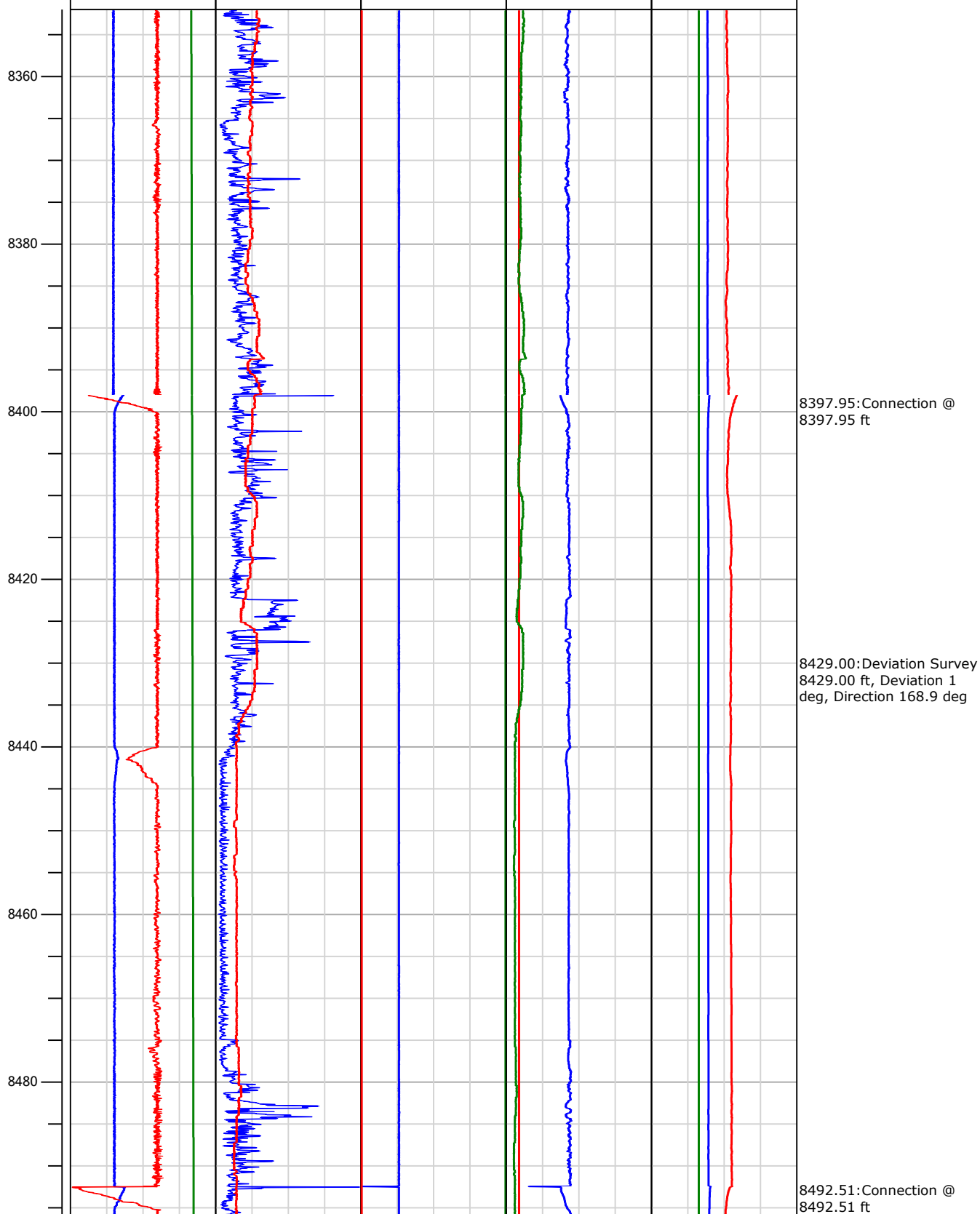
20:44

20:55

21:08

21:10

21:14



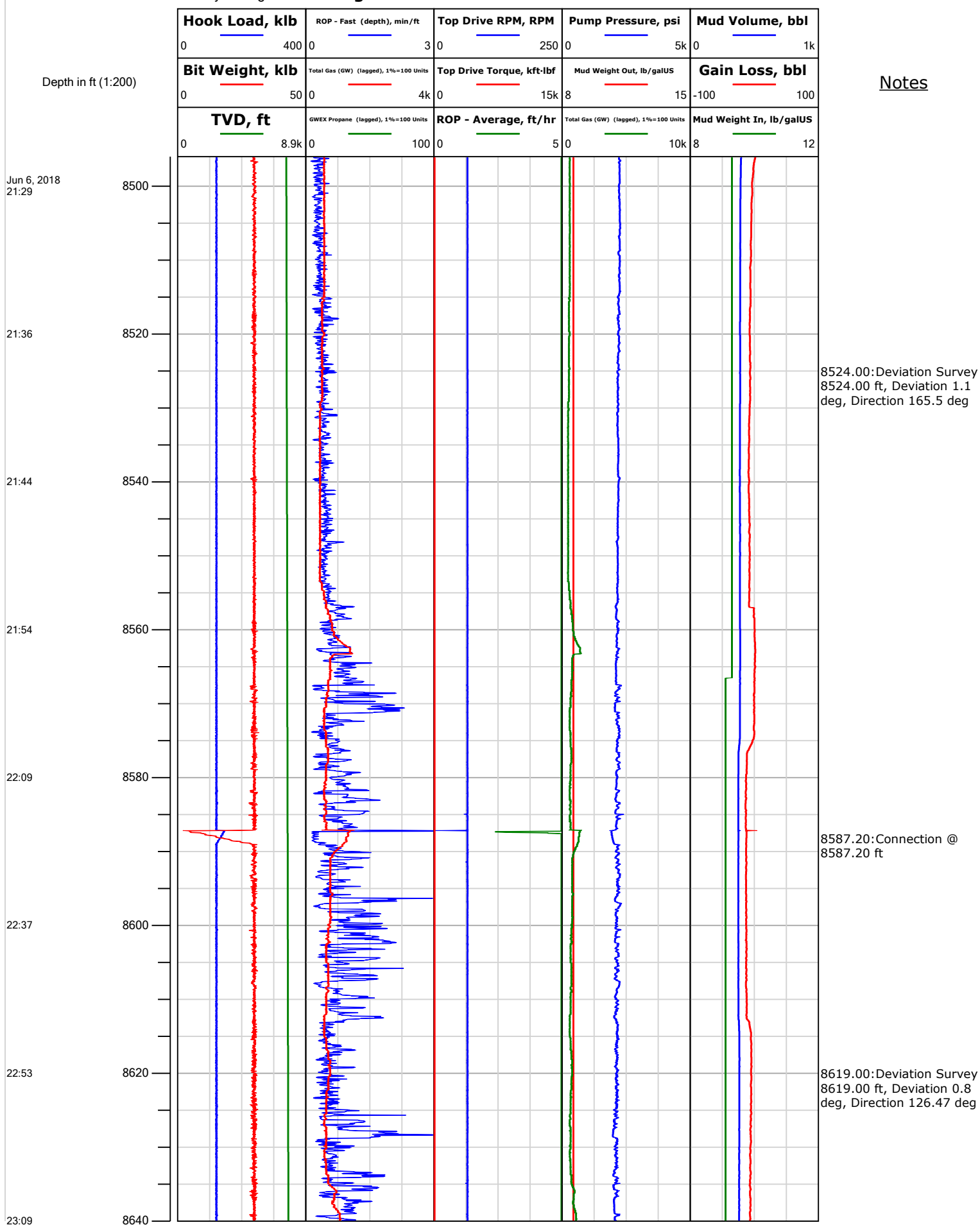


Electronic Drilling Recorder

Operator: Laramie Energy
Contractor: Helmerich & Payne Drlg Co

Well Name: Rig Mob to BCU 13-01 pad
Rig: 290

Location:



Notes

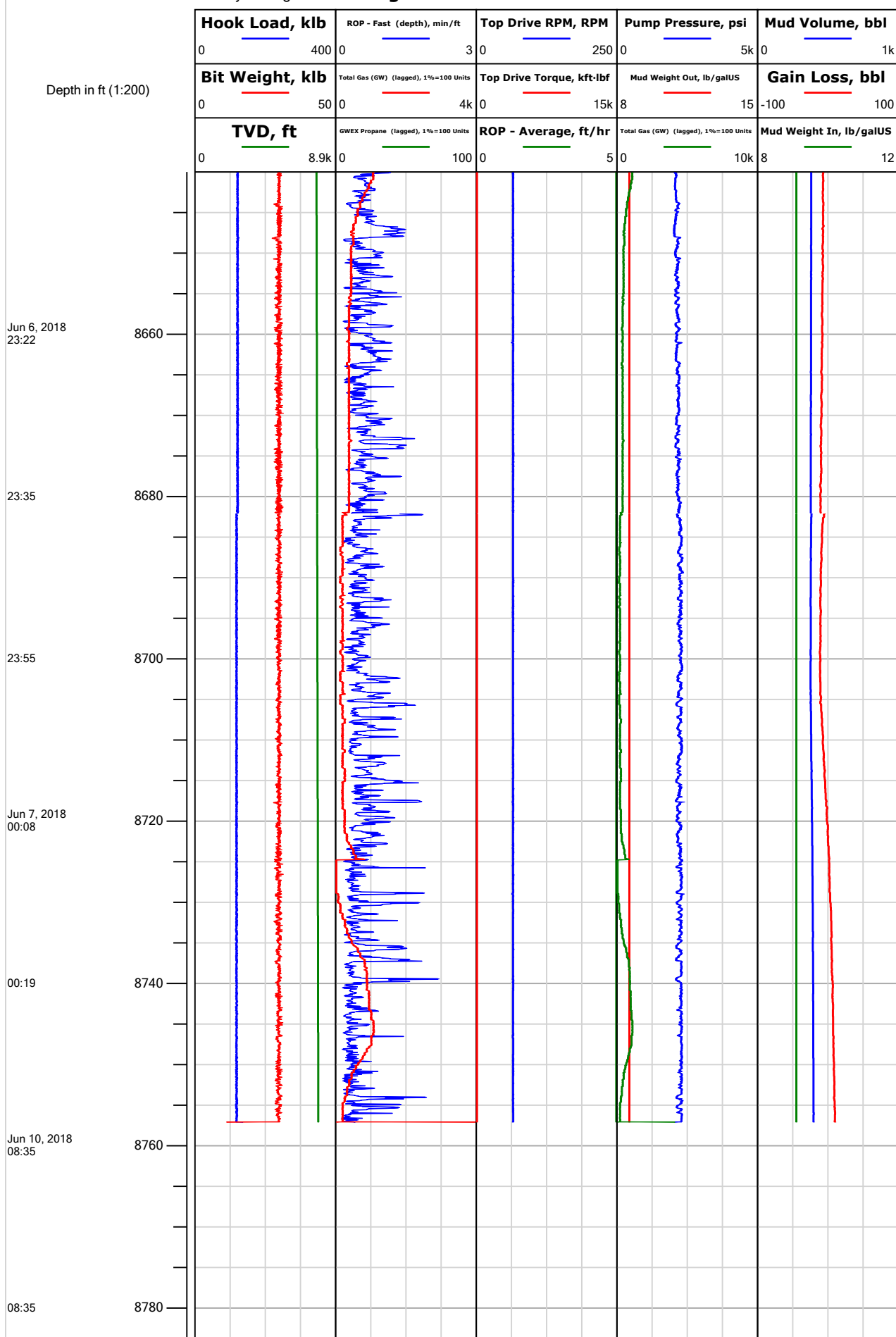


Electronic Drilling Recorder

Operator: Laramie Energy
Contractor: Helmerich & Payne Drlg Co

Well Name: Rig Mob to BCU 13-01 pad
Rig: 290

Location:



Notes

8683.08: Connection @
 8683.08 ft
 8685.02: Rig Floor set Hole
 Depth from 8684.61 ft to
 8682.04 ft
 8694.00: Deviation Survey
 8694.00 ft, Deviation 1.2
 deg, Direction 125.3 deg

8757.22: Rig Floor set Bit
 Position from 8578.89 ft to
 8746.00 ft
 8757.22: Rig Floor set Bit
 Position from 6789.89 ft to
 7080.00 ft
 8757.22: Rig Floor set Bit
 Position from 4395.77 ft to
 4462.26 ft

Operator: Laramie Energy
Contractor: Helmerich & Payne Drlg Co

Well Name: Rig Mob to BCU 13-01 pad
Rig: 290

Depth in ft (1:200)

Hook Load, klb	ROP - Fast (depth), min/ft	Top Drive RPM, RPM	Pump Pressure, psi	Mud Volume, bbl
0400	03	0250	05k	01k
Bit Weight, klb	Total Gas (GW) (lagged), 1%=100 Units	Top Drive Torque, kft-lbf	Mud Weight Out, lb/galUS	Gain Loss, bbl
050	04k	015k	815	-100100
TVD, ft	GWEX Propane (lagged), 1%=100 Units	ROP - Average, ft/hr	Total Gas (GW) (lagged), 1%=100 Units	Mud Weight In, lb/galUS
08.9k	0100	05	010k	812

Notes

8800