

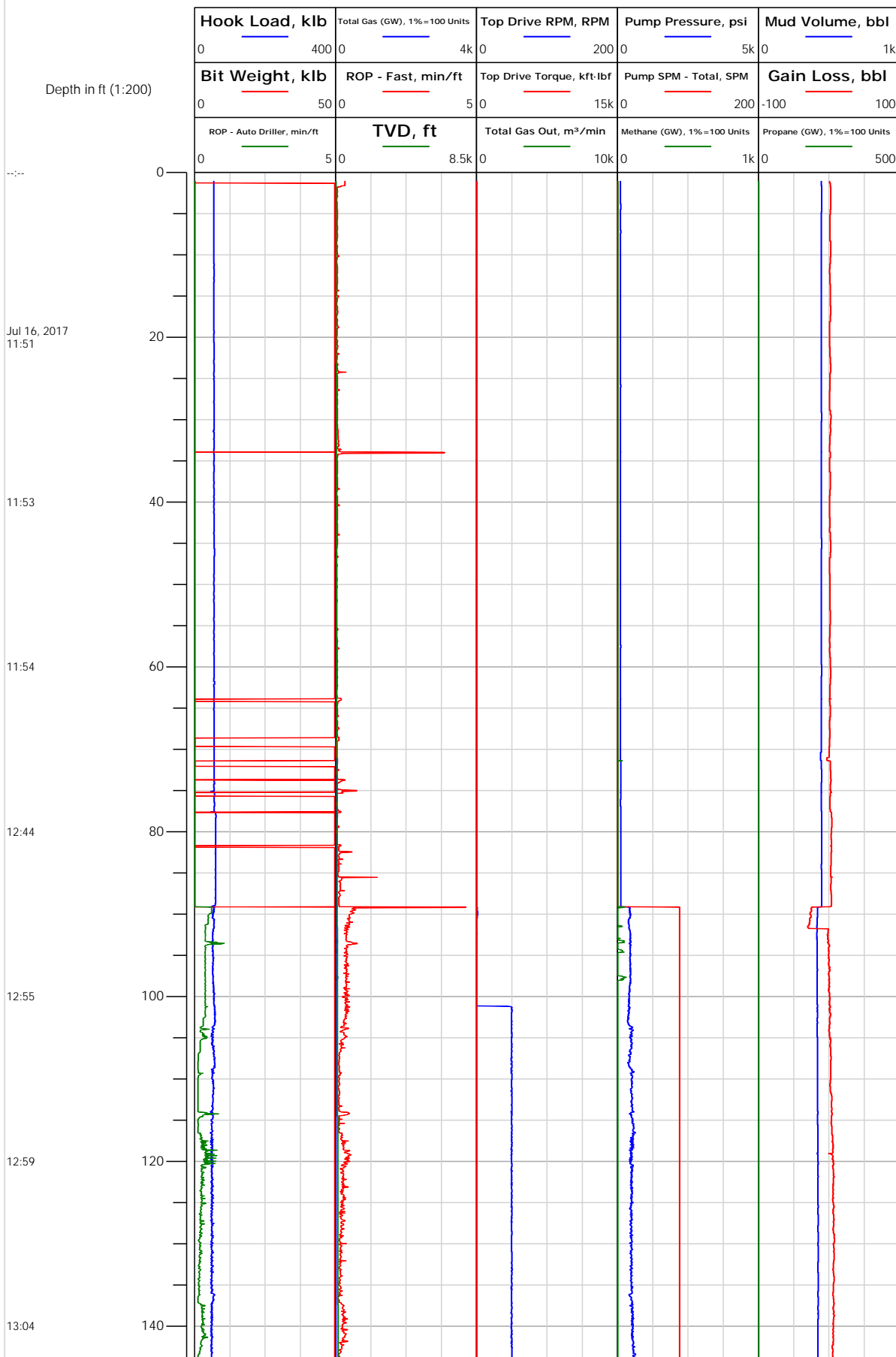


Electronic Drilling Recorder

Operator: Laramie Energy
Contractor: Helmerich & Payne Drlg Co

Well Name: Gunderson BCU 20-08E
Rig: 522

Location:





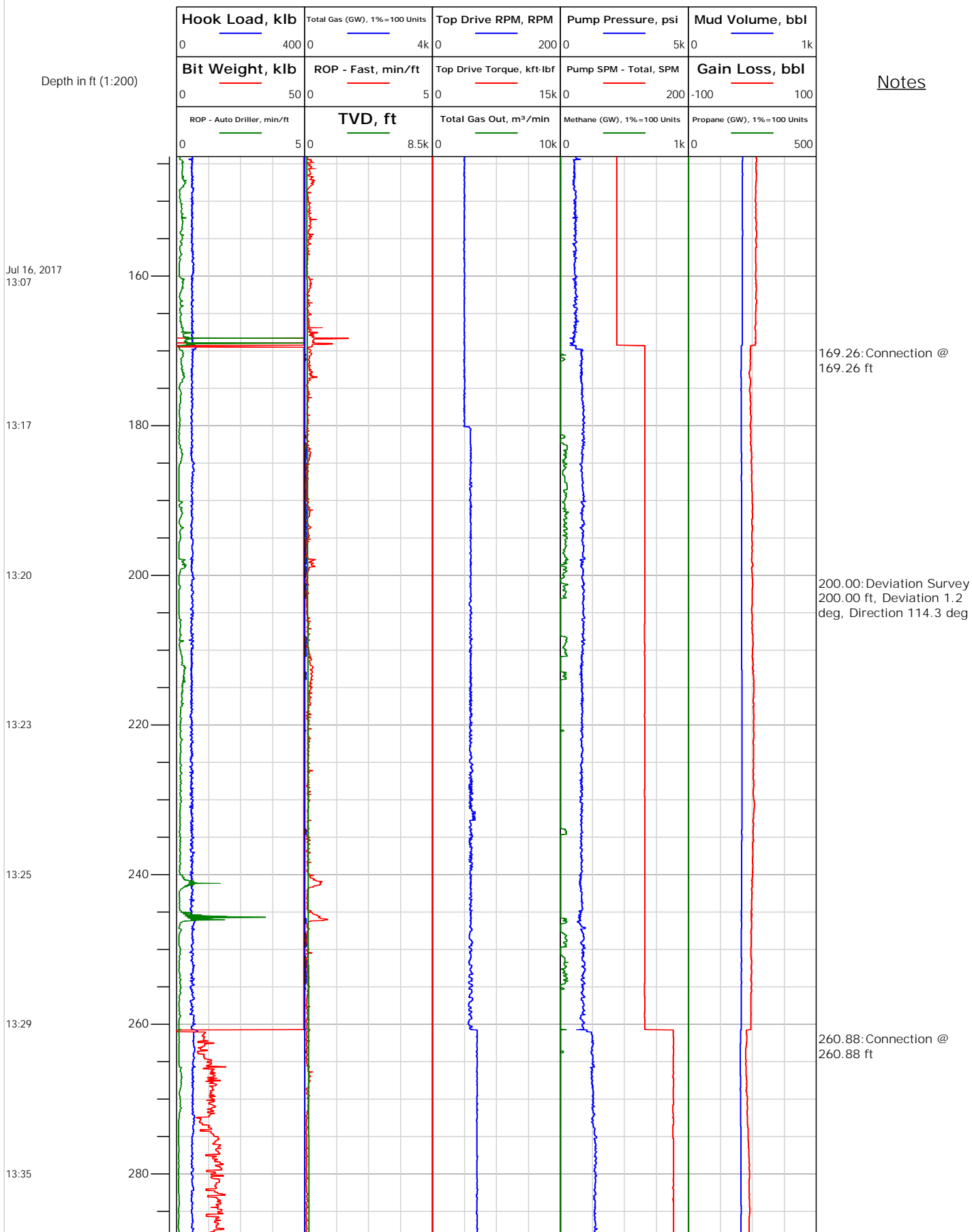
Electronic Drilling Recorder

Operator: Laramie Energy
Contractor: Helmerich & Payne Drlg Co

Well Name: Gunderson BCU 20-08E
Rig: 522

Location:

Notes





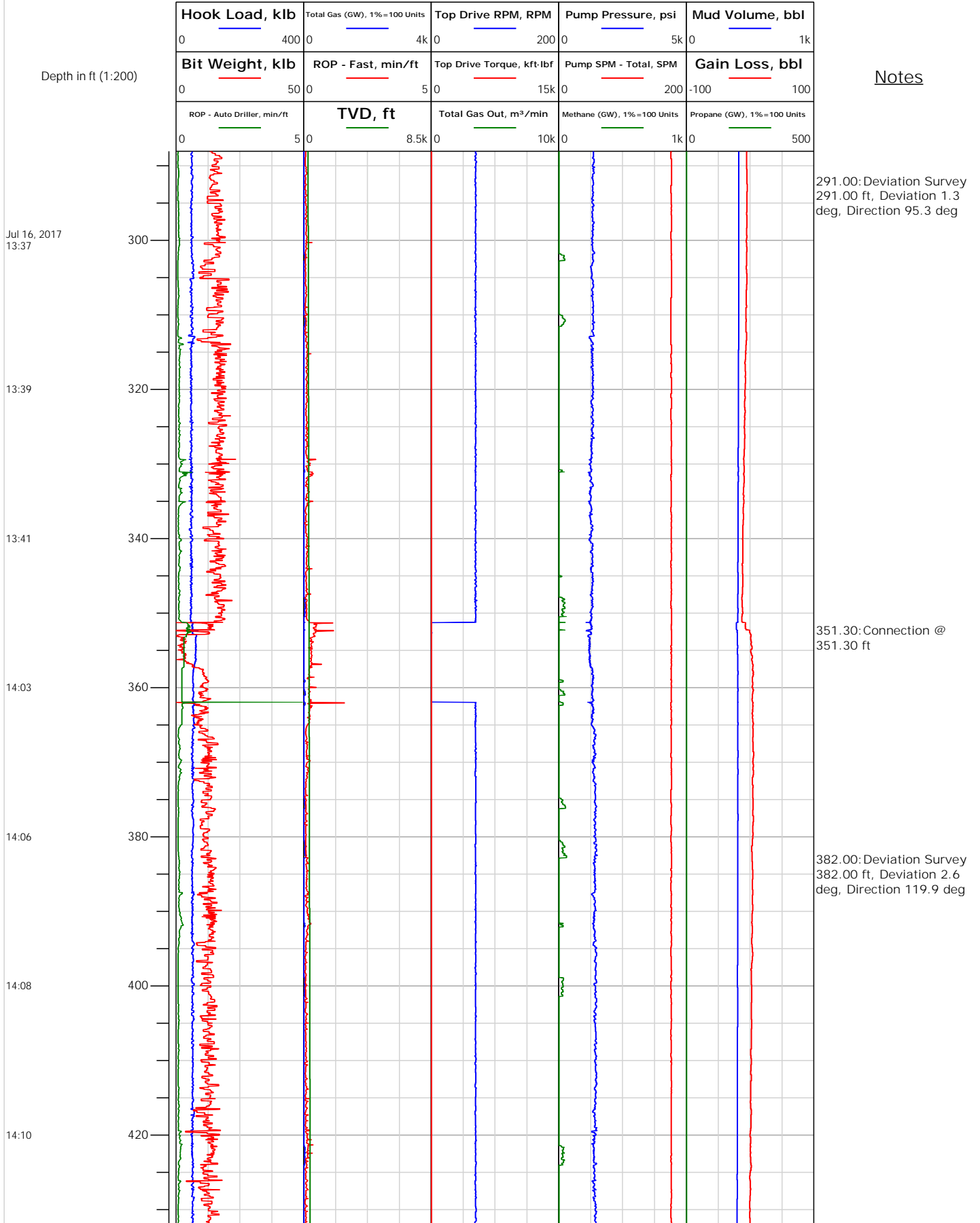
Electronic Drilling Recorder

Operator: Laramie Energy
Contractor: Helmerich & Payne Drlg Co

Well Name: Gunderson BCU 20-08E
Rig: 522

Location:

Notes





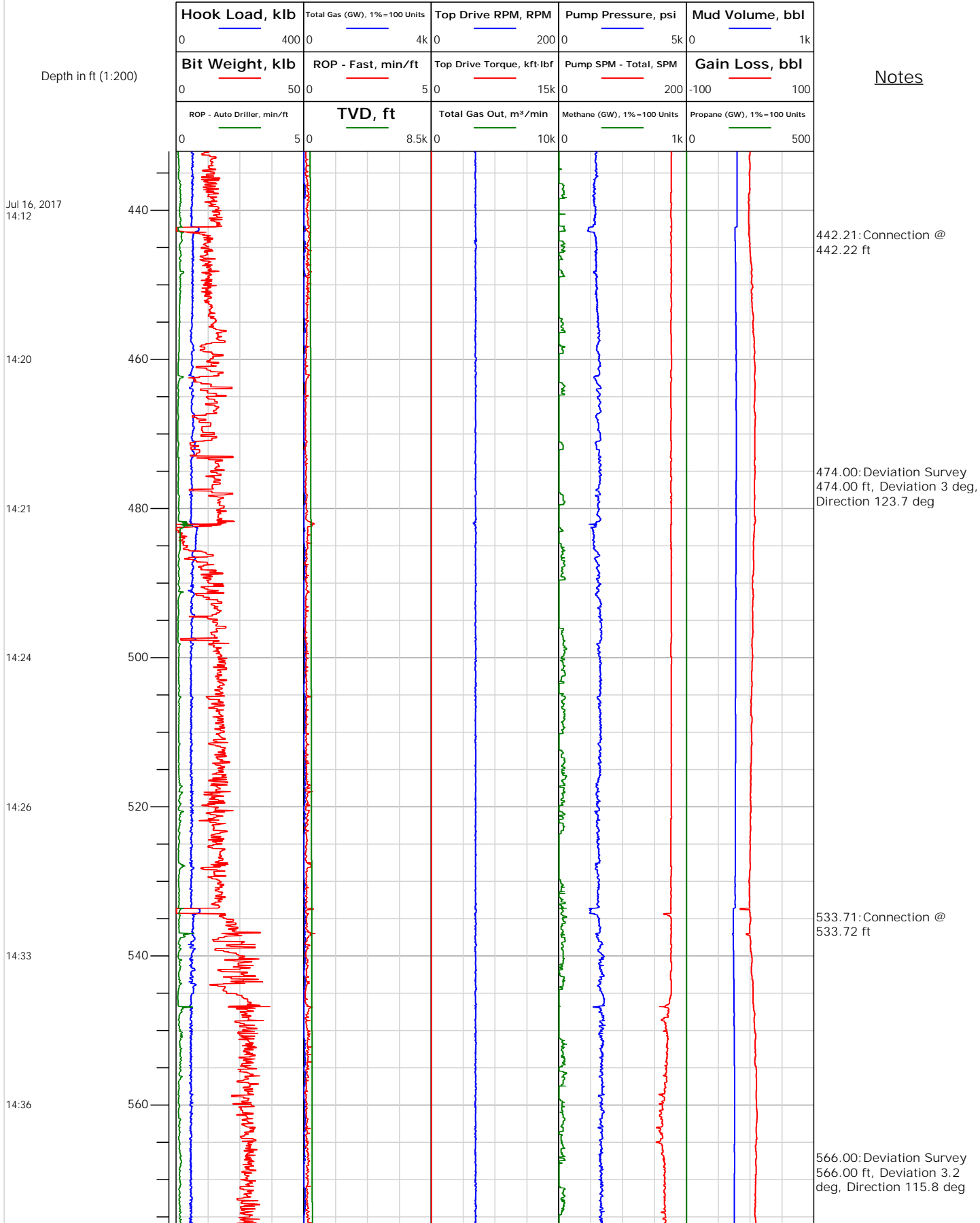
Electronic Drilling Recorder

Operator: Laramie Energy
Contractor: Helmerich & Payne Drlg Co

Well Name: Gunderson BCU 20-08E
Rig: 522

Location:

Notes





Electronic Drilling Recorder

Operator: Laramie Energy
Contractor: Helmerich & Payne Drlg Co

Well Name: Gunderson BCU 20-08E
Rig: 522

Location:

Notes

Jul 16, 2017
 14:38

14:41

14:43

14:51

14:53

14:55

14:57

15:06

580

600

620

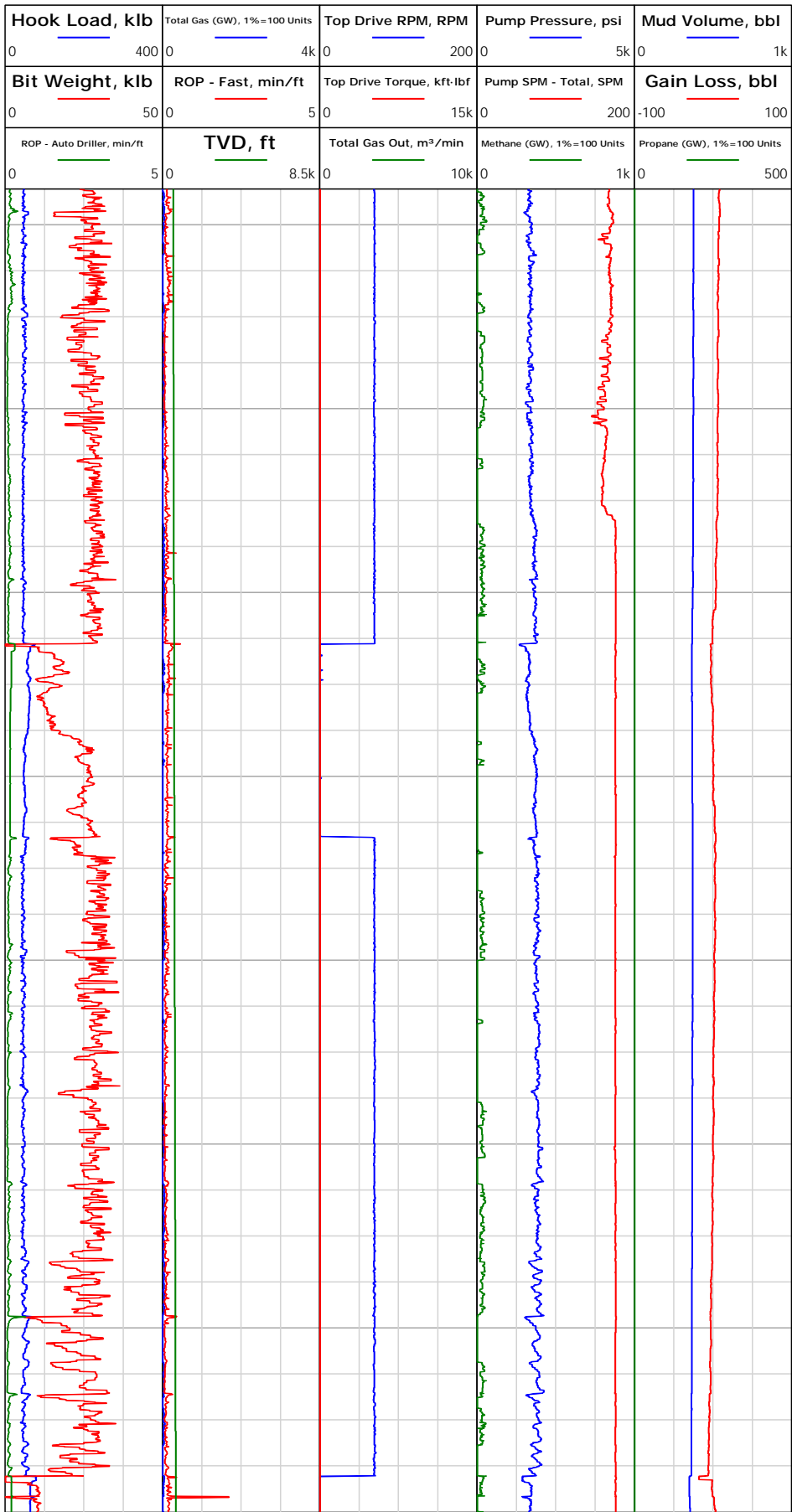
640

660

680

700

720



625.59: Connection @
 625.60 ft

658.00: Deviation Survey
 658.00 ft, Deviation 5.9
 deg, Direction 111.4 deg

716.32: Connection @
 716.32 ft



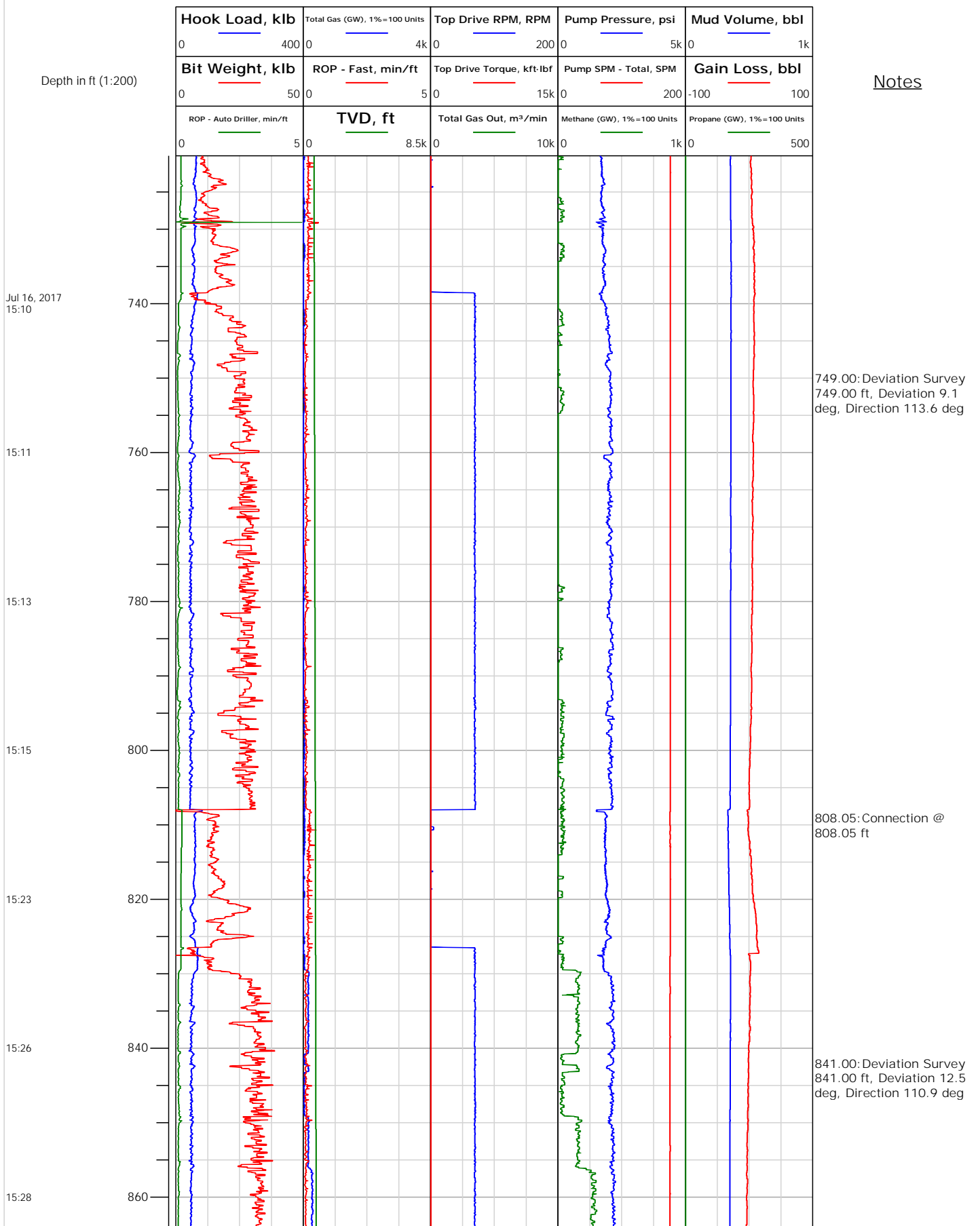
Electronic Drilling Recorder

Operator: Laramie Energy
Contractor: Helmerich & Payne Drlg Co

Well Name: Gunderson BCU 20-08E
Rig: 522

Location:

Notes





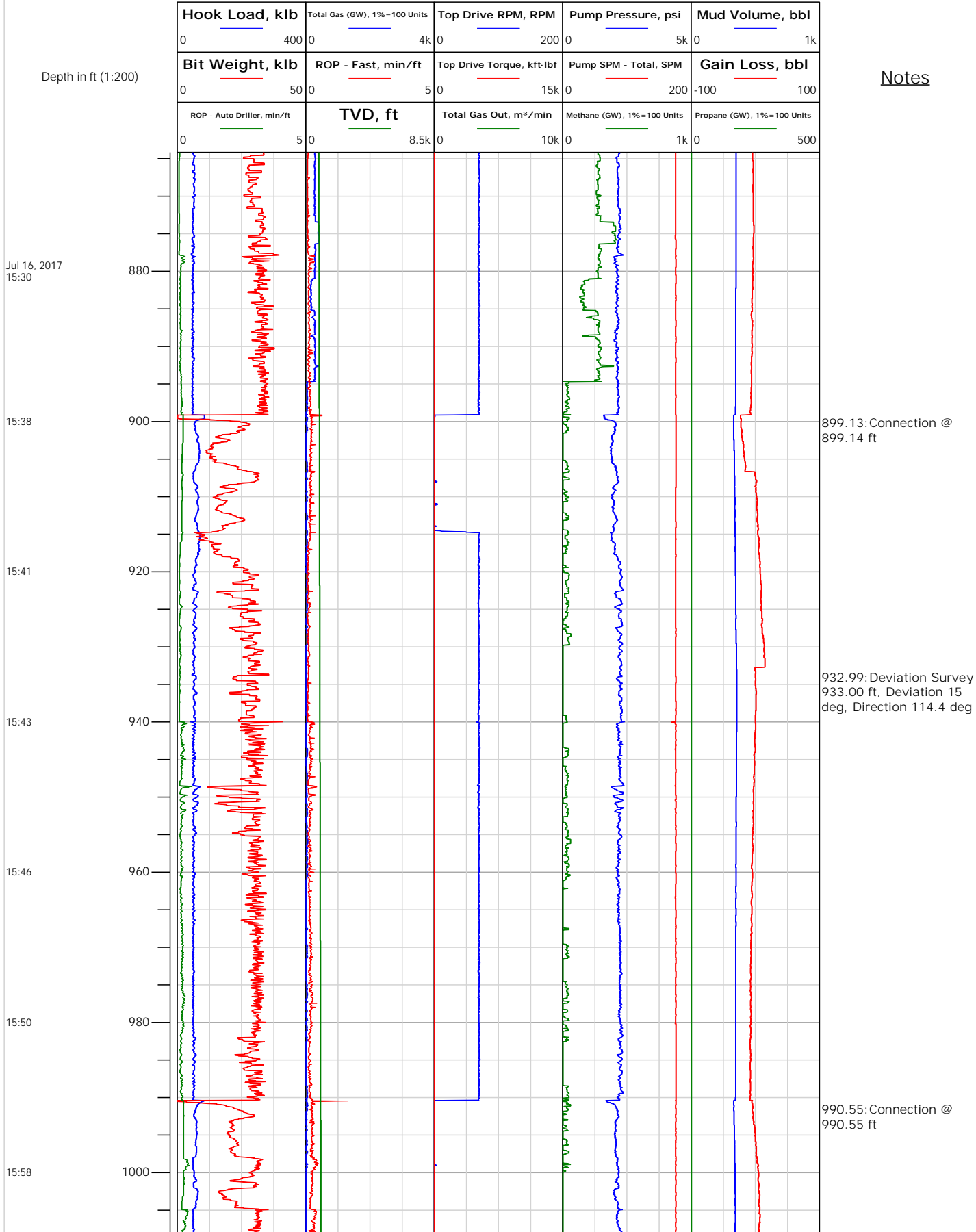
Electronic Drilling Recorder

Operator: Laramie Energy
Contractor: Helmerich & Payne Drlg Co

Well Name: Gunderson BCU 20-08E
Rig: 522

Location:

Notes





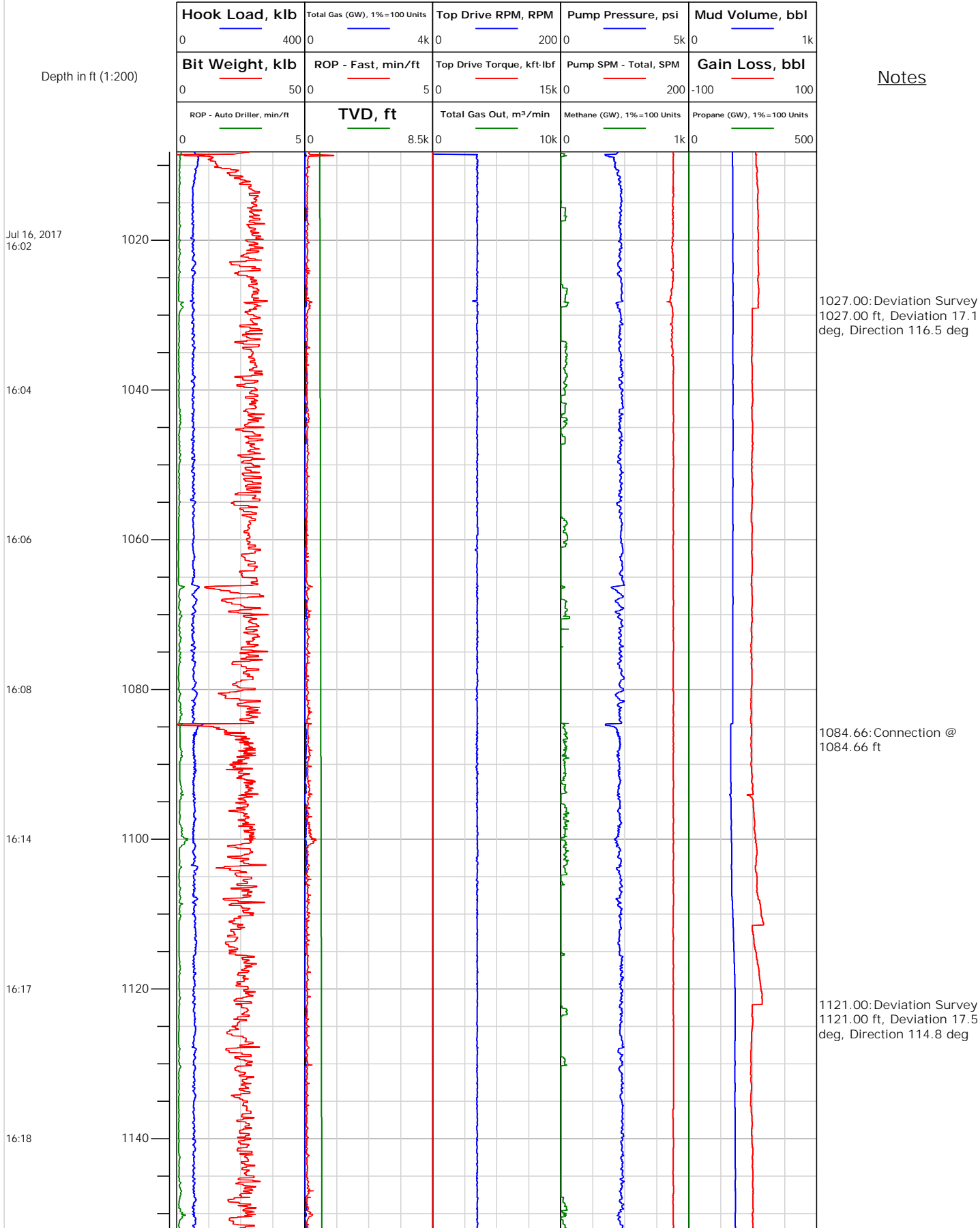
Electronic Drilling Recorder

Operator: Laramie Energy
Contractor: Helmerich & Payne Drlg Co

Well Name: Gunderson BCU 20-08E
Rig: 522

Location:

Notes





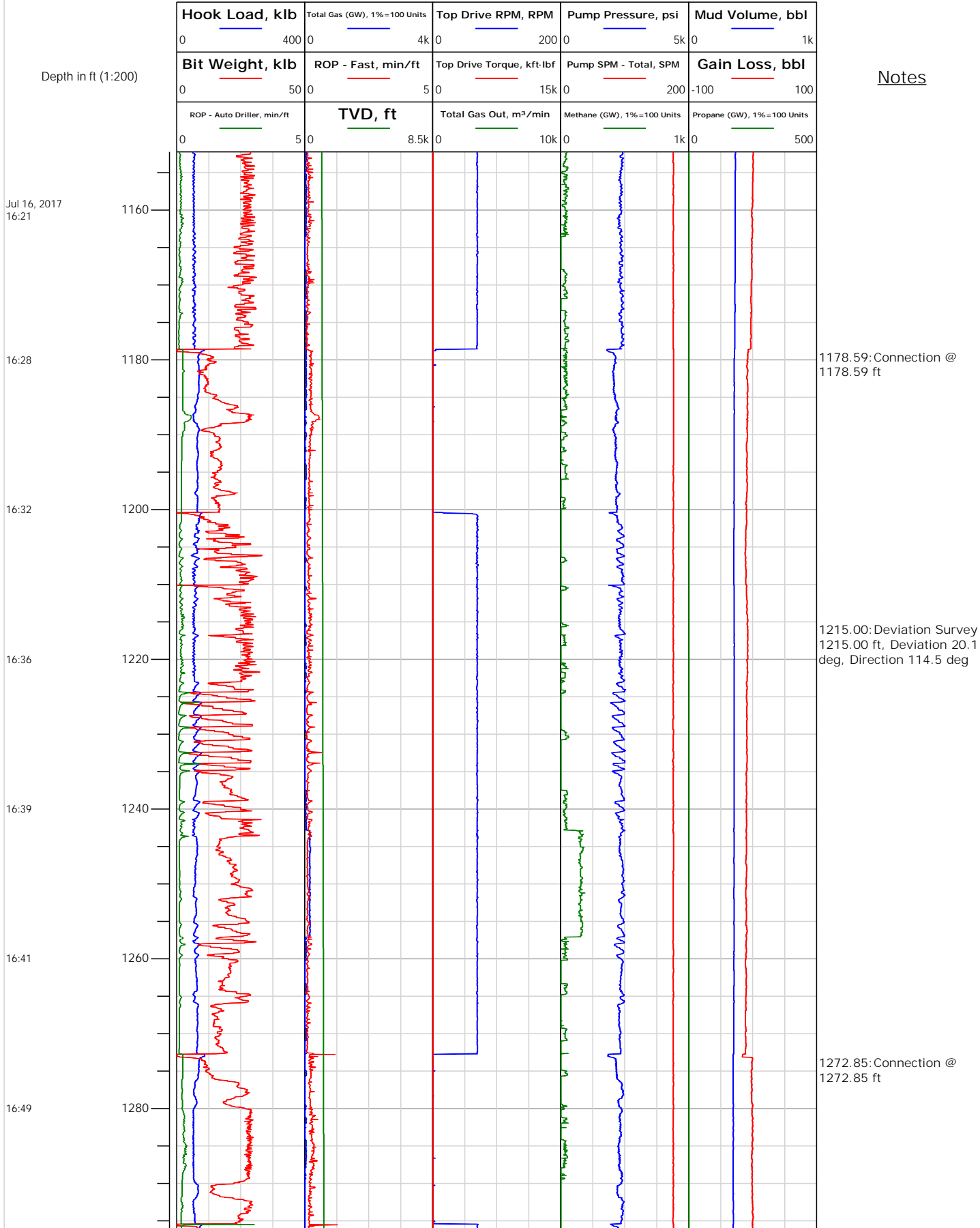
Electronic Drilling Recorder

Operator: Laramie Energy
Contractor: Helmerich & Payne Drlg Co

Well Name: Gunderson BCU 20-08E
Rig: 522

Location:

Notes





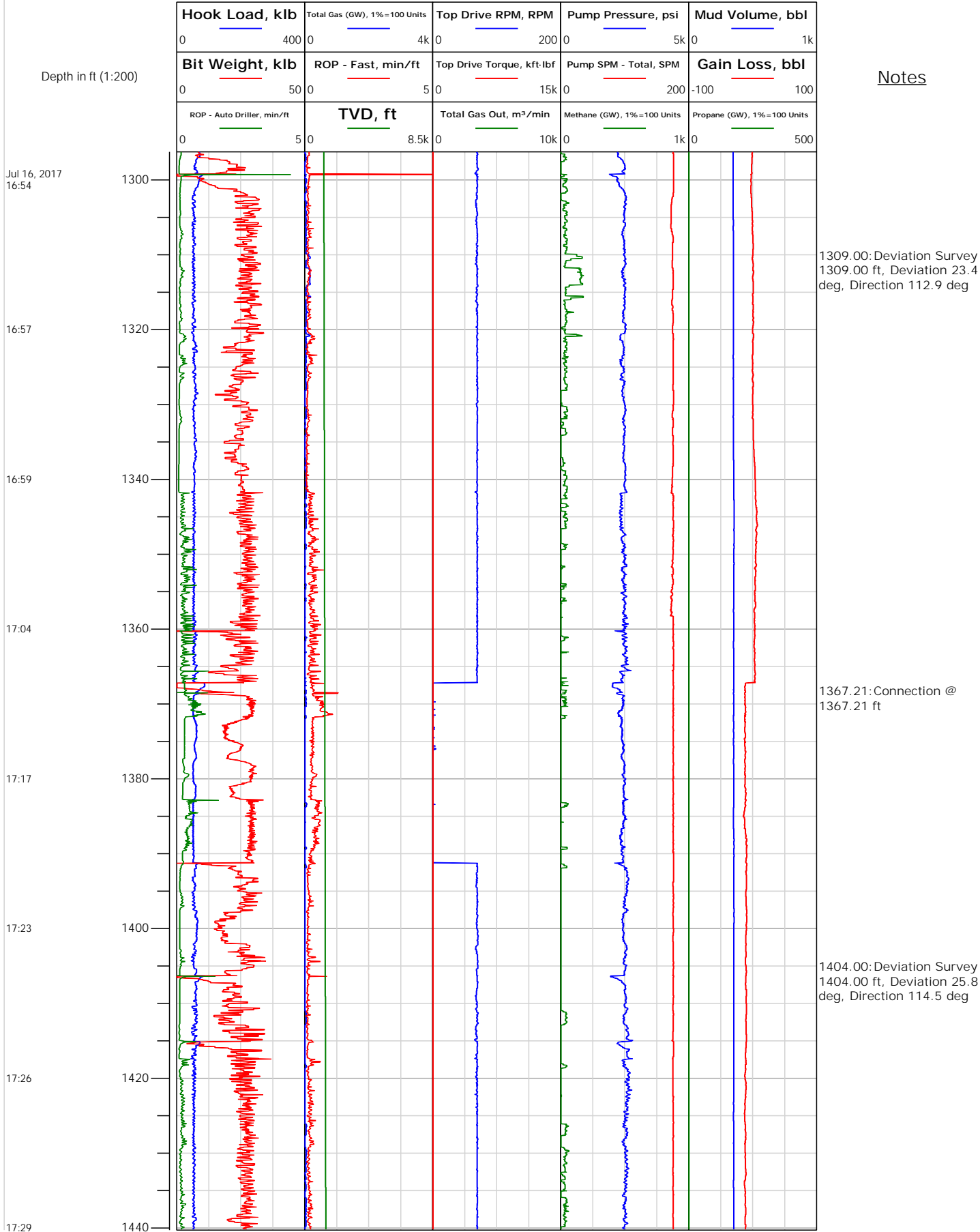
Electronic Drilling Recorder

Operator: Laramie Energy
Contractor: Helmerich & Payne Drlg Co

Well Name: Gunderson BCU 20-08E
Rig: 522

Location:

Notes





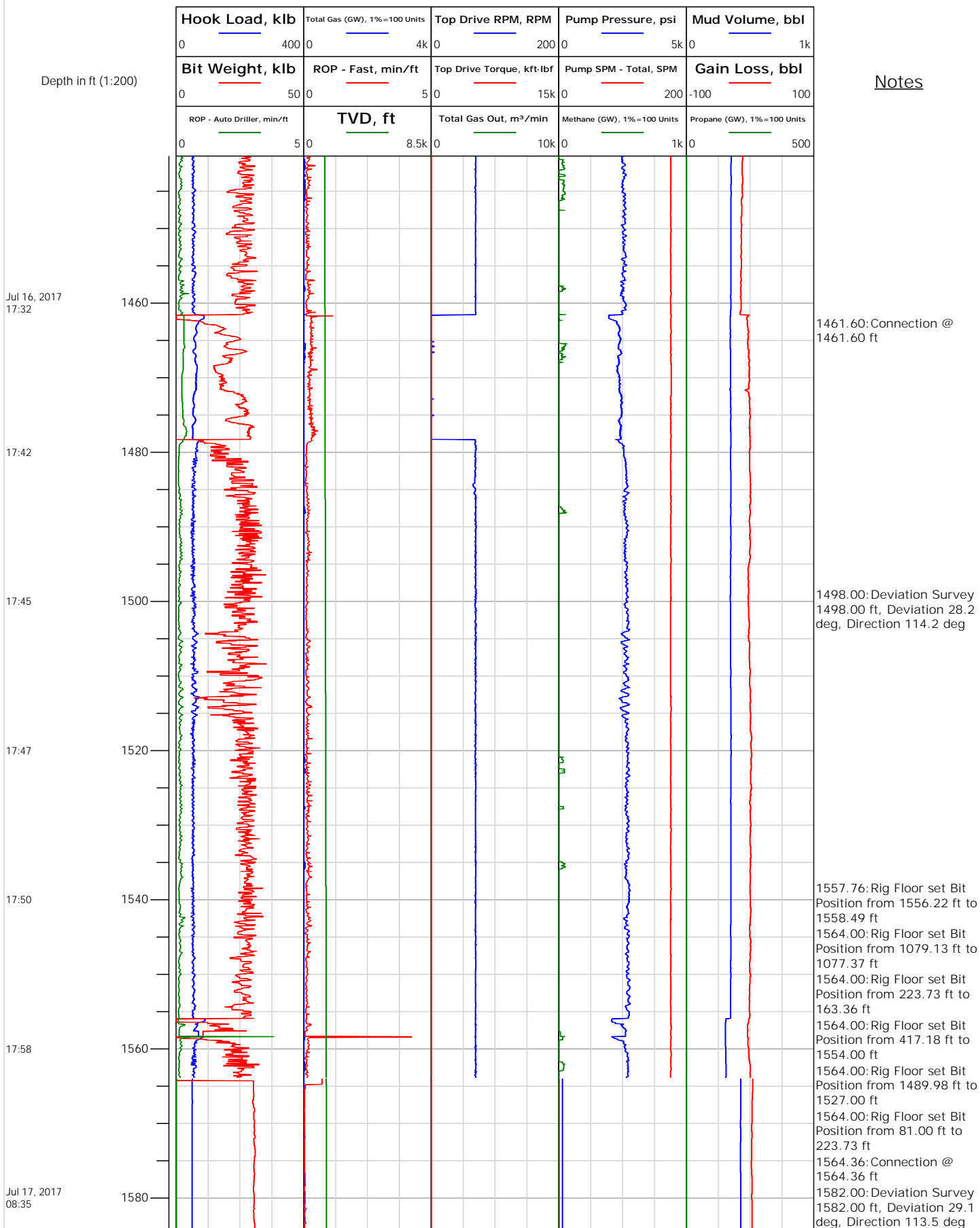
Electronic Drilling Recorder

Operator: Laramie Energy
Contractor: Helmerich & Payne Drlg Co

Well Name: Gunderson BCU 20-08E
Rig: 522

Location:

Notes





Electronic Drilling Recorder

Operator: Laramie Energy
Contractor: Helmerich & Payne Drlg Co

Well Name: Gunderson BCU 20-08E
Rig: 522

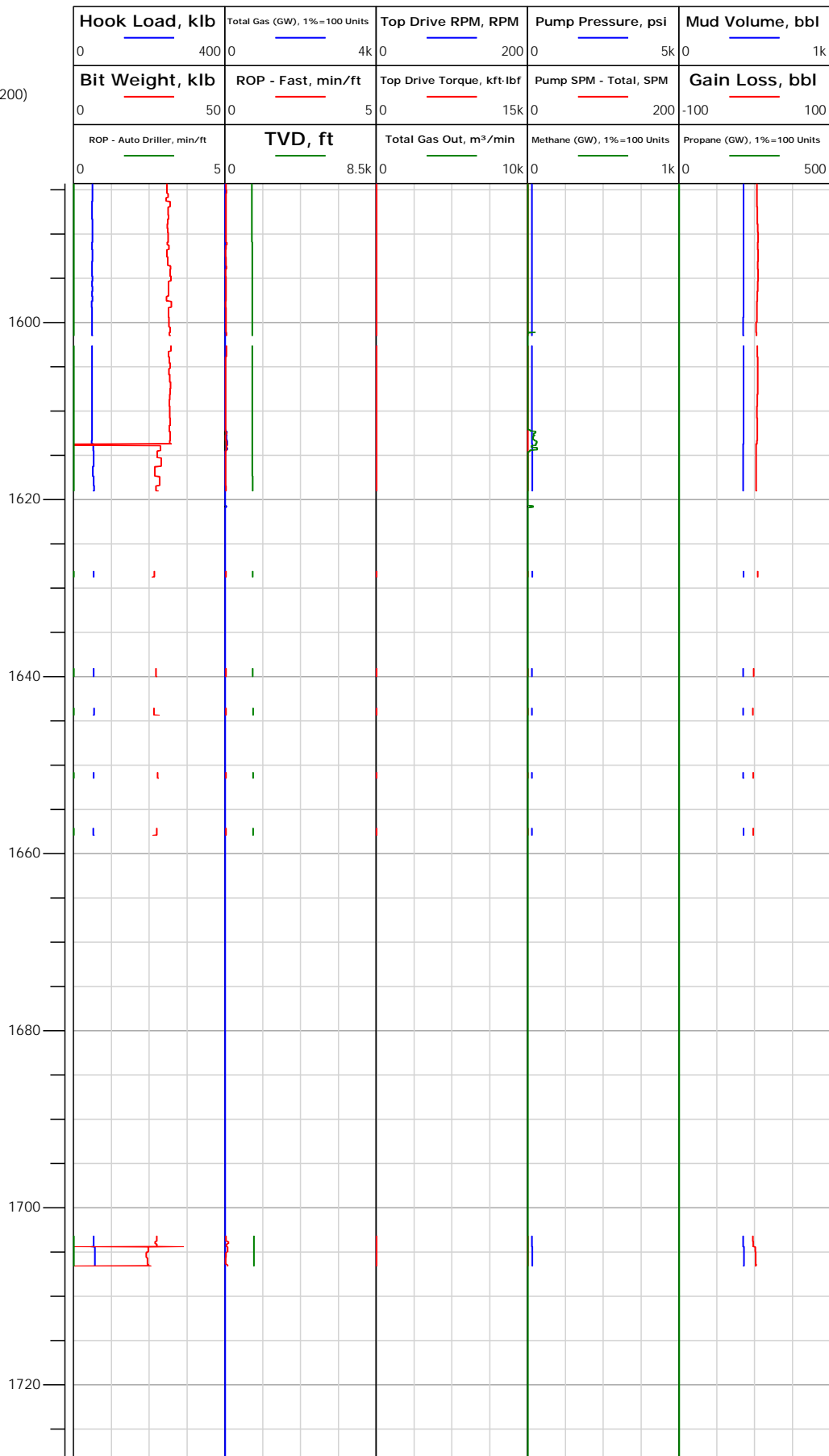
Location:

Depth in ft (1:200)

Notes

Jul 17, 2017
08:35

Jul 17, 2017
08:45



1601.20: Rig Floor set Bit
Position from 1565.24 ft to
1527.00 ft
1601.20: Rig Floor set Hole
Depth from 1601.20 ft to
1564.00 ft
1601.20: Rig Floor set Bit
Position from 1527.00 ft to
1489.80 ft

1677.00: Deviation Survey
1677.00 ft, Deviation 29.7
deg, Direction 113.2 deg

1704.55: Connection @
1704.55 ft
1706.73: Rig Floor set Bit
Position from 223.73 ft to
80.99 ft
1706.73: Rig Floor set Hole
Depth from 1706.74 ft to
1564.00 ft
1706.73: Rig Floor set Bit
Position from 1706.74 ft to
223.73 ft



Electronic Drilling Recorder

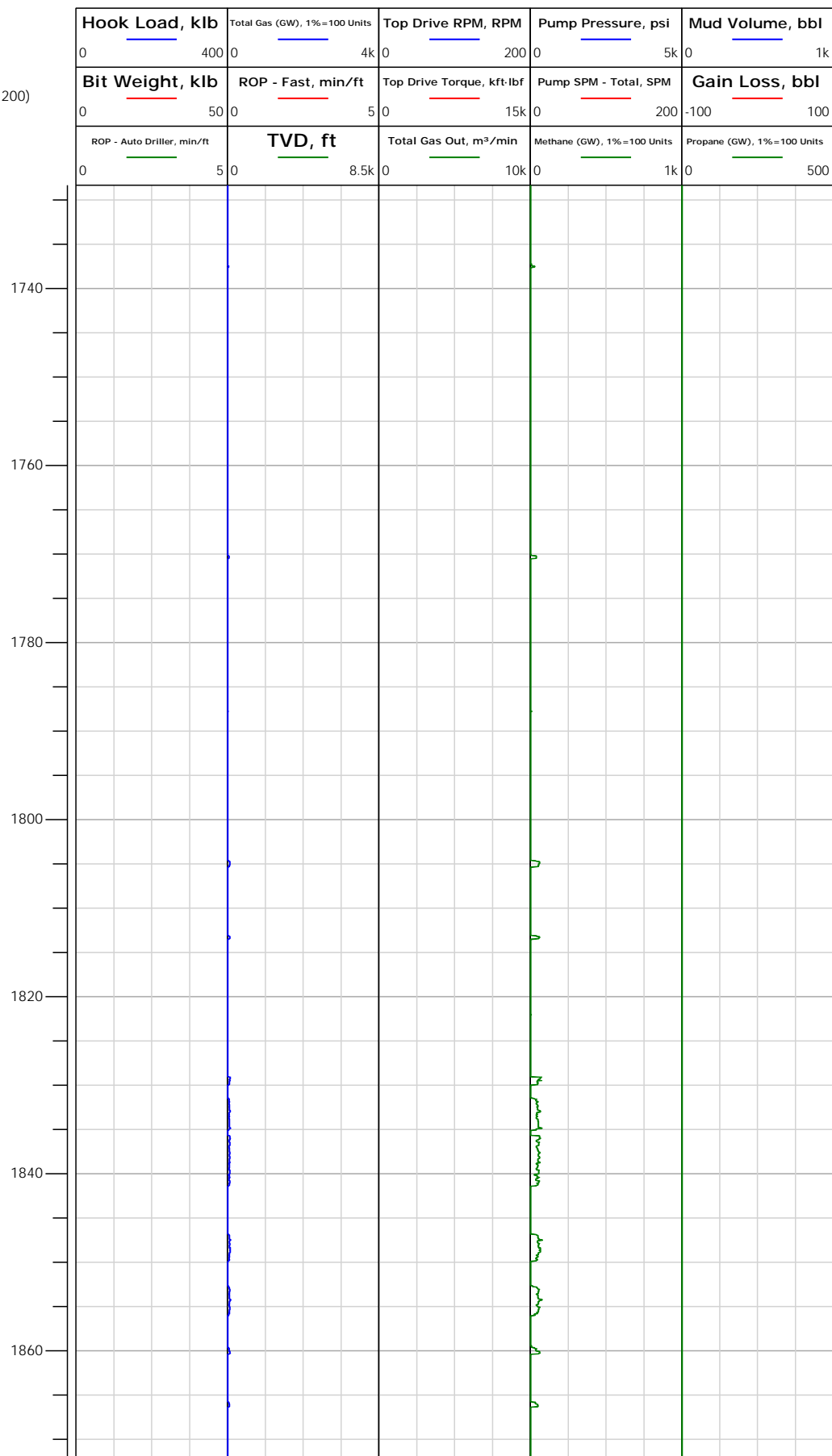
Operator: Laramie Energy
Contractor: Helmerich & Payne Drlg Co

Well Name: Gunderson BCU 20-08E
Rig: 522

Location:

Depth in ft (1:200)

Notes





Electronic Drilling Recorder

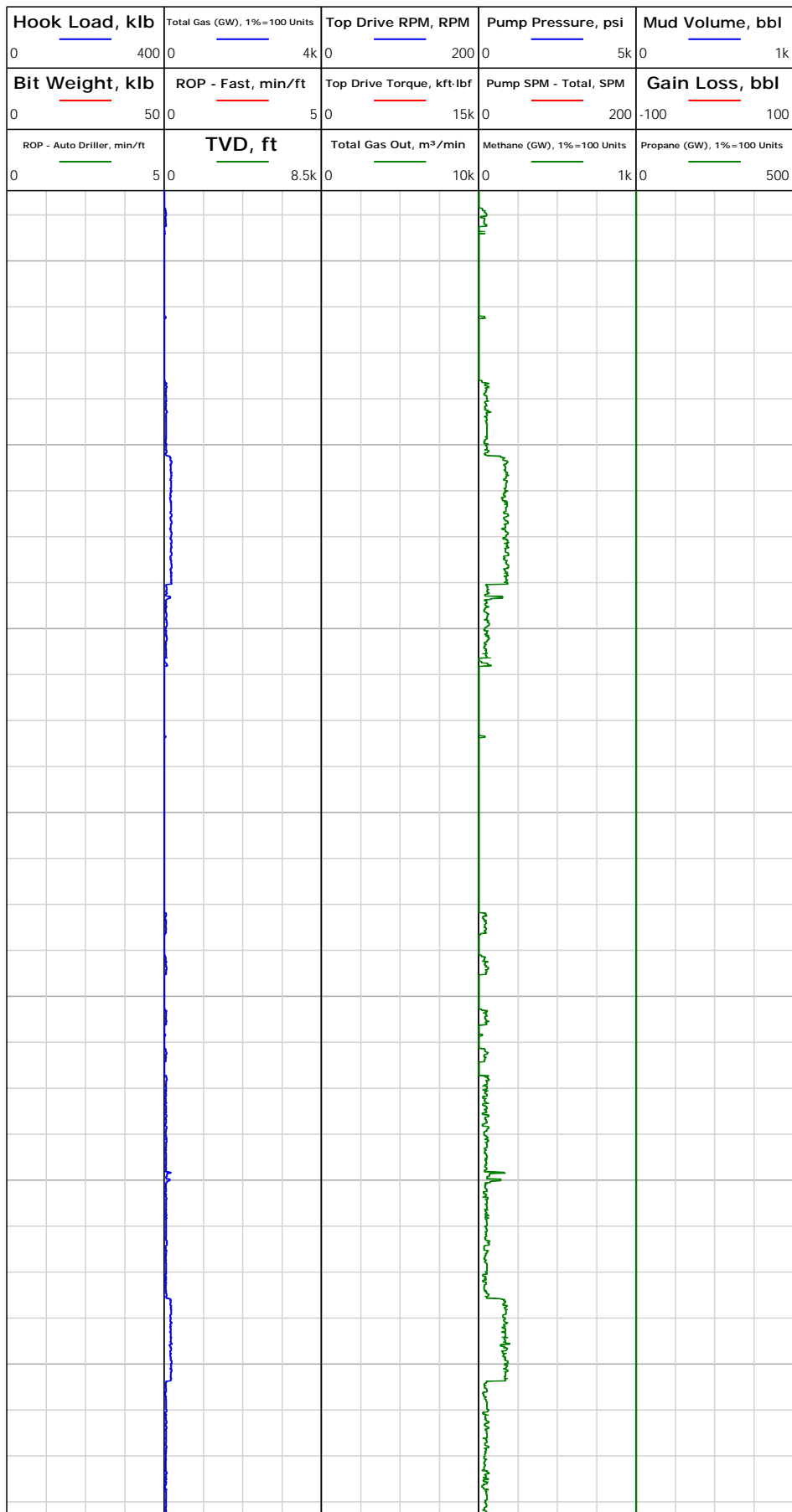
Operator: Laramie Energy
Contractor: Helmerich & Payne Drlg Co

Well Name: Gunderson BCU 20-08E
Rig: 522

Location:

Notes

Depth in ft (1:200)



1923.28: Connection @
 1923.28 ft

1959.00: Deviation Survey
 1959.00 ft, Deviation 30.2
 deg, Direction 112.6 deg



Electronic Drilling Recorder

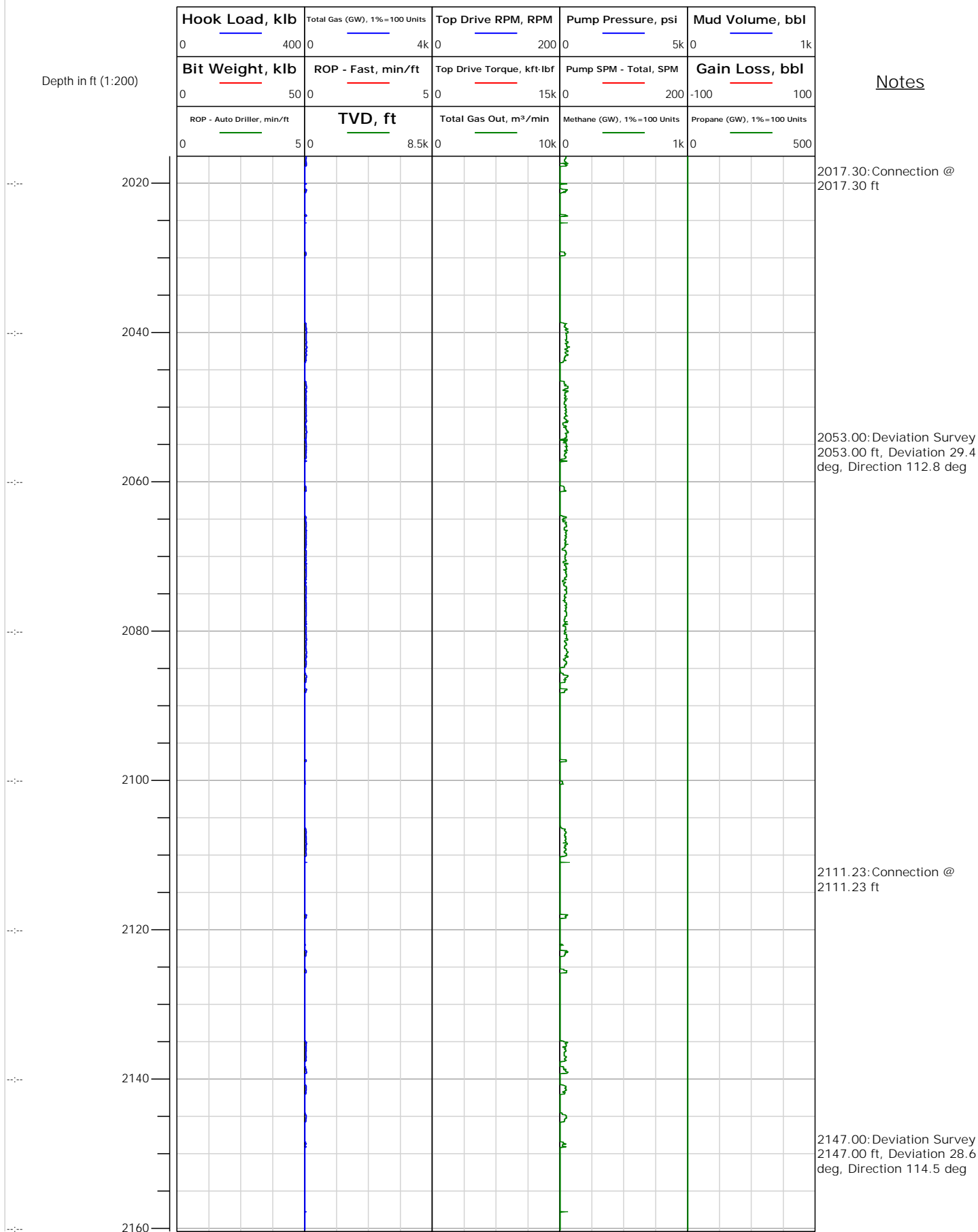
Operator: Laramie Energy
Contractor: Helmerich & Payne Drlg Co

Well Name: Gunderson BCU 20-08E
Rig: 522

Location:

Depth in ft (1:200)

Notes





Electronic Drilling Recorder

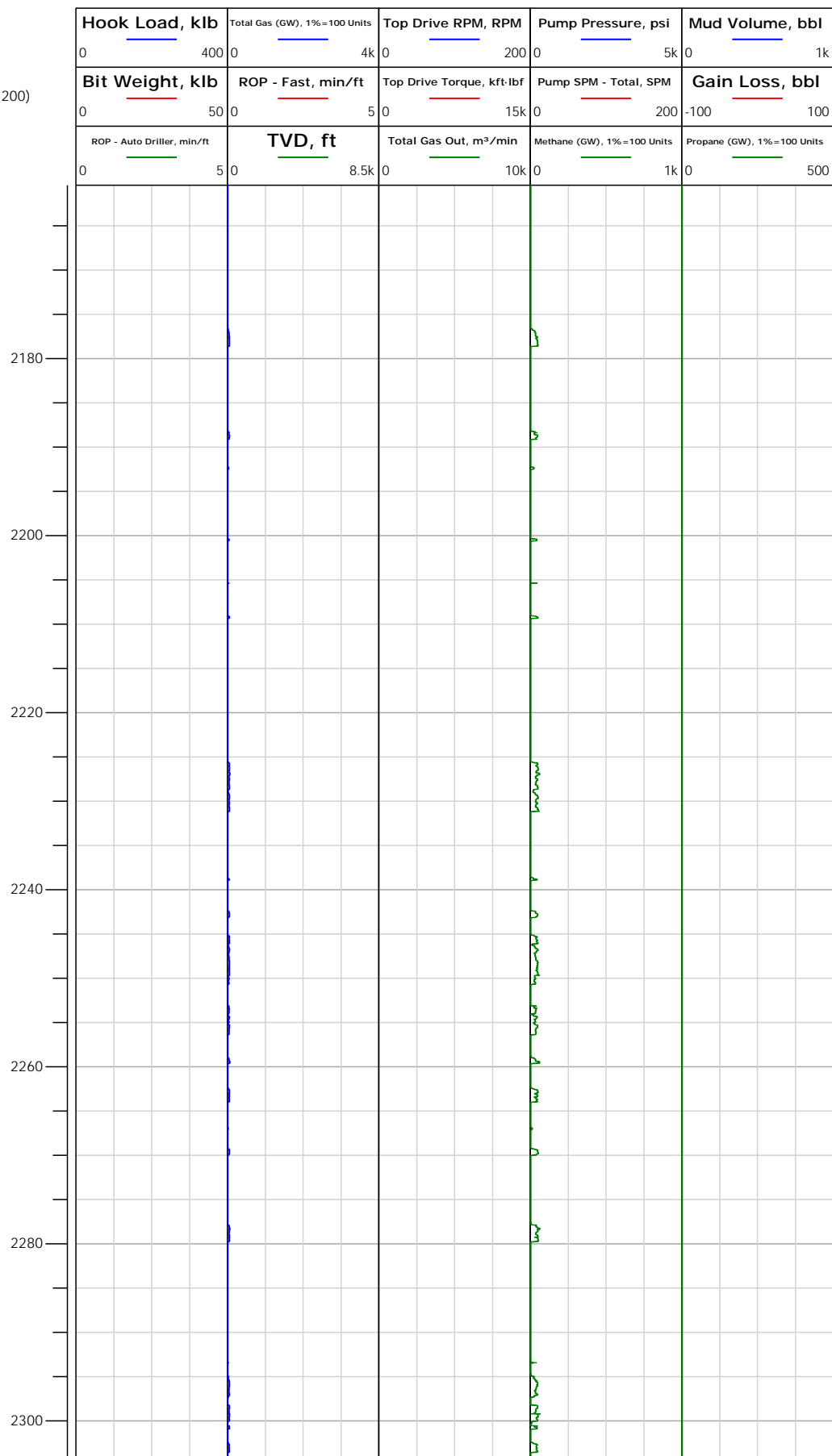
Operator: Laramie Energy
Contractor: Helmerich & Payne Drlg Co

Well Name: Gunderson BCU 20-08E
Rig: 522

Location:

Depth in ft (1:200)

Notes





Electronic Drilling Recorder

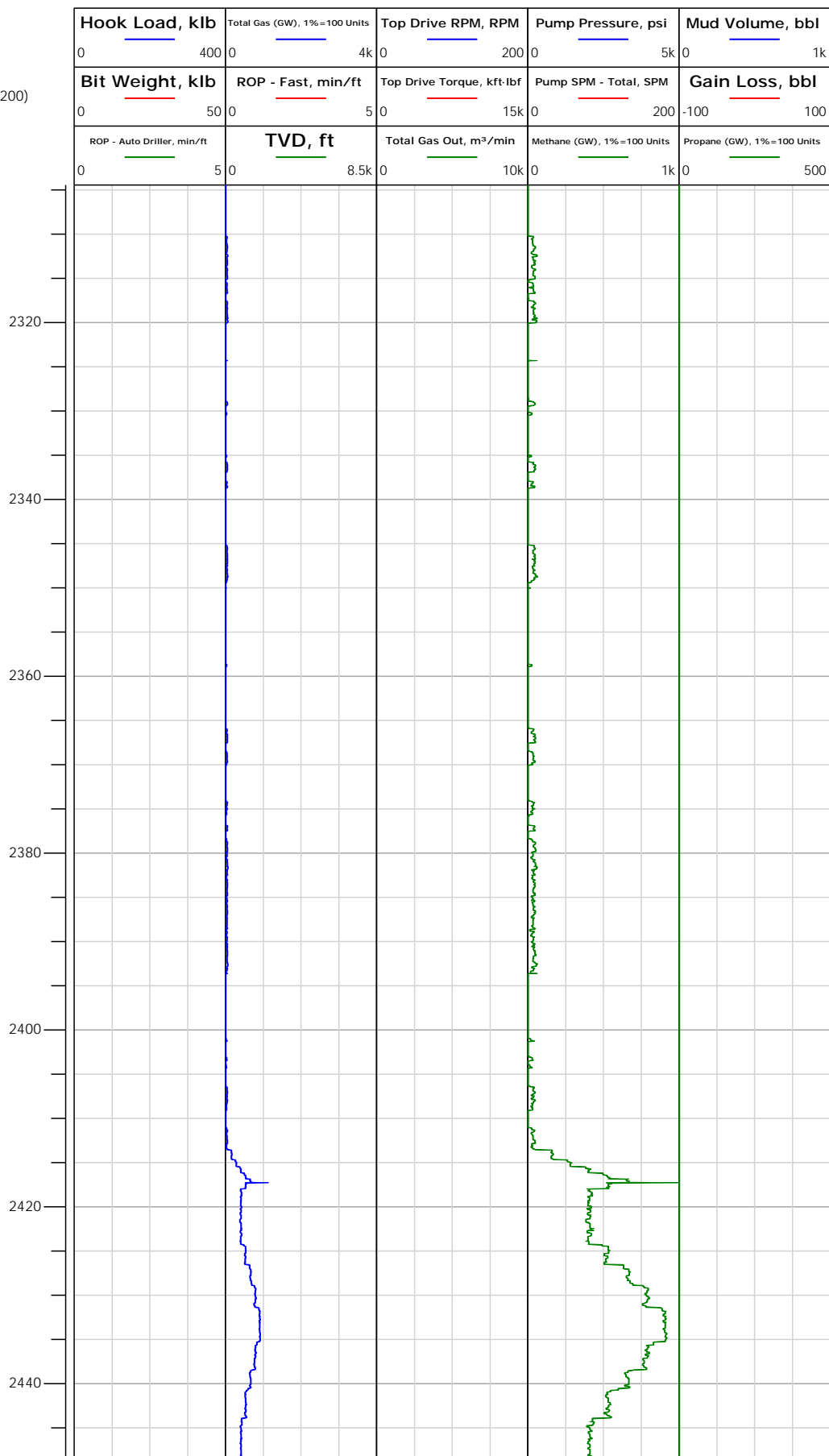
Operator: Laramie Energy
Contractor: Helmerich & Payne Drlg Co

Well Name: Gunderson BCU 20-08E
Rig: 522

Location:

Notes

Depth in ft (1:200)



2336.00: Deviation Survey
2336.00 ft, Deviation 27.4 deg, Direction 112.9 deg

2393.81: Connection @
2393.81 ft

2430.00: Deviation Survey
2430.00 ft, Deviation 26.9 deg, Direction 111.6 deg



Electronic Drilling Recorder

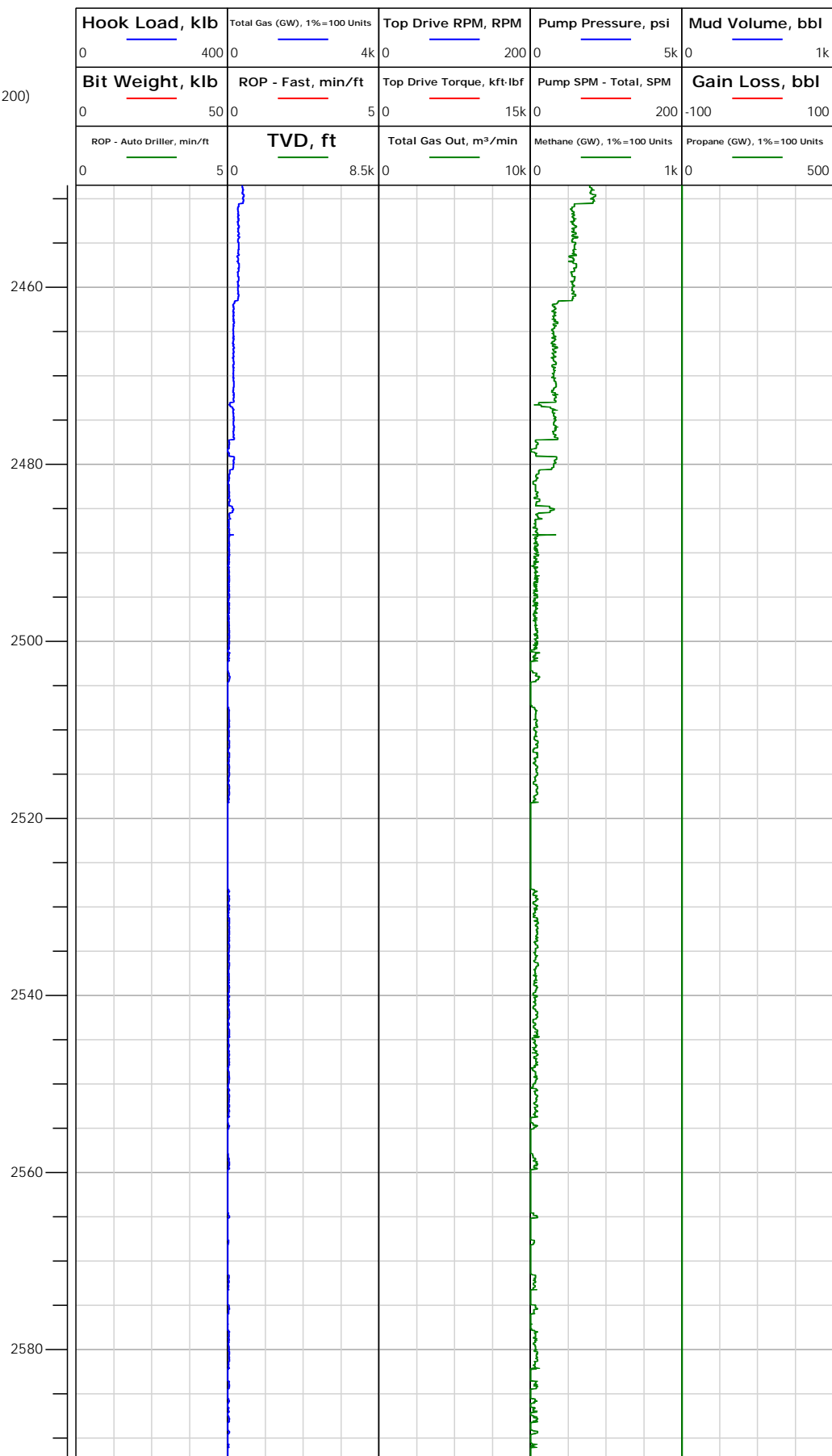
Operator: Laramie Energy
Contractor: Helmerich & Payne Drlg Co

Well Name: Gunderson BCU 20-08E
Rig: 522

Location:

Depth in ft (1:200)

Notes





Electronic Drilling Recorder

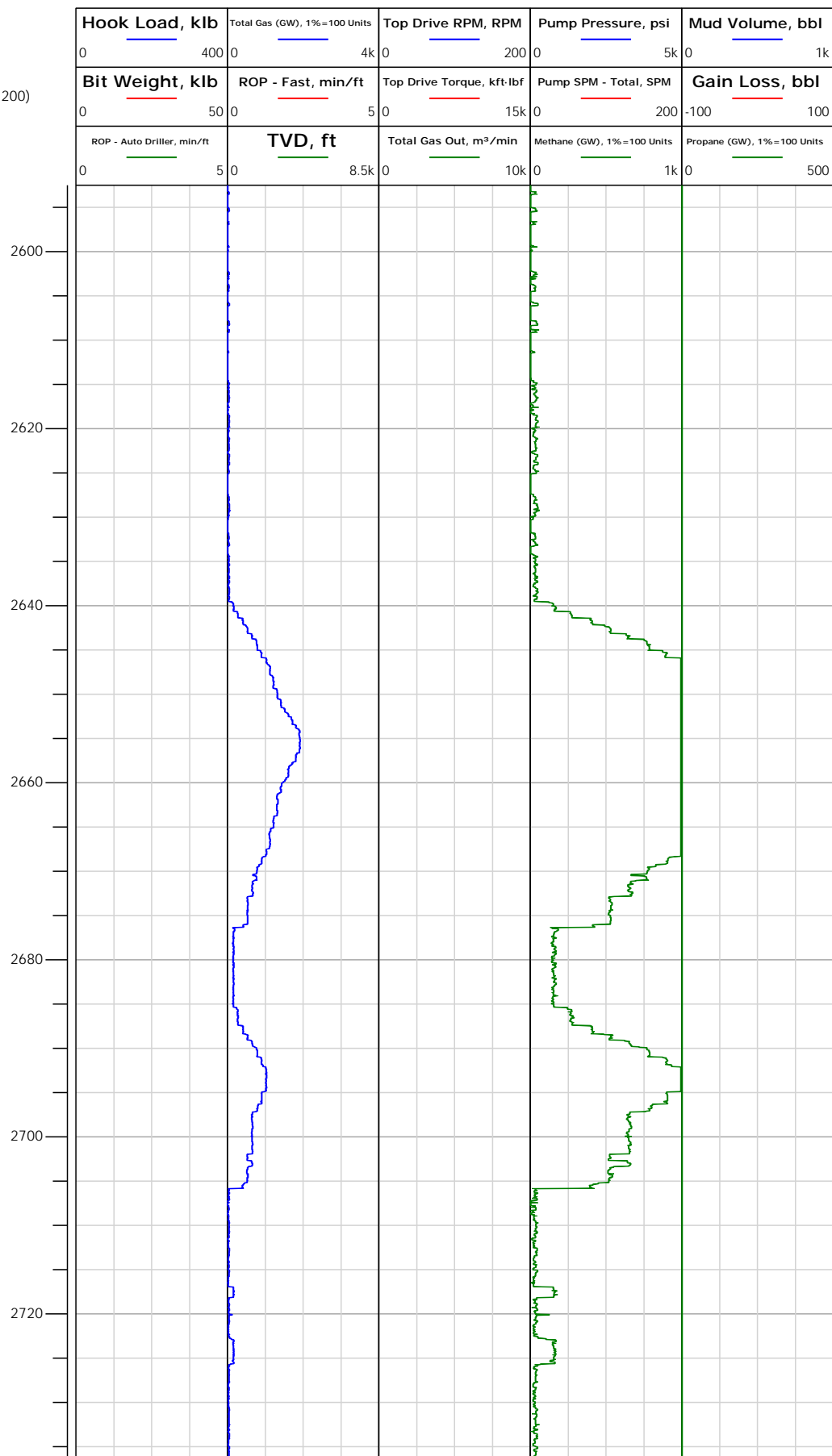
Operator: Laramie Energy
Contractor: Helmerich & Payne Drlg Co

Well Name: Gunderson BCU 20-08E
Rig: 522

Location:

Depth in ft (1:200)

Notes





Electronic Drilling Recorder

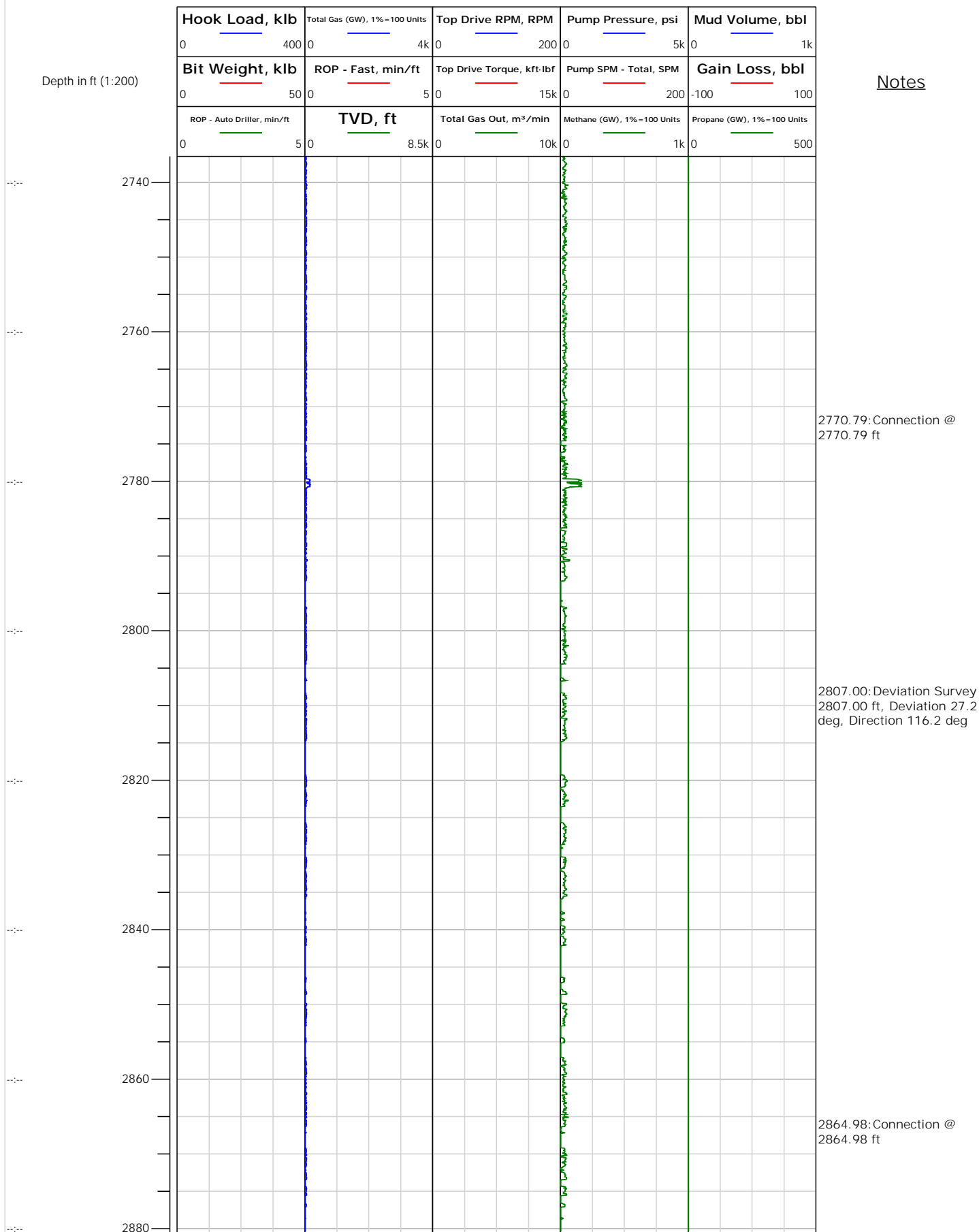
Operator: Laramie Energy
Contractor: Helmerich & Payne Drlg Co

Well Name: Gunderson BCU 20-08E
Rig: 522

Location:

Depth in ft (1:200)

Notes





Electronic Drilling Recorder

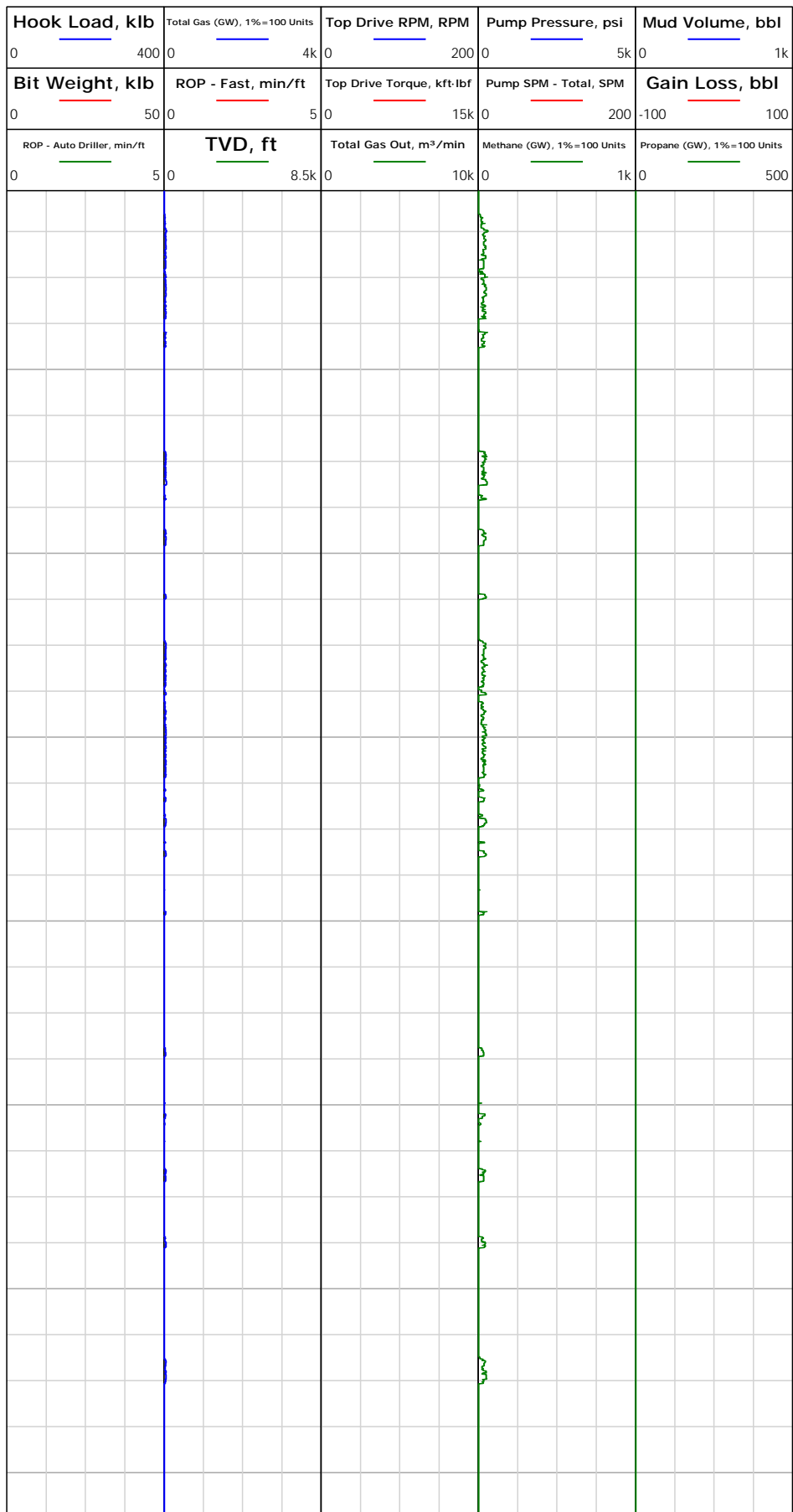
Operator: Laramie Energy
Contractor: Helmerich & Payne Drlg Co

Well Name: Gunderson BCU 20-08E
Rig: 522

Location:

Depth in ft (1:200)

Notes



2901.00: Deviation Survey
 2901.00 ft, Deviation 27.6 deg, Direction 115.6 deg

2959.10: Connection @
 2959.10 ft

2995.00: Deviation Survey
 2995.00 ft, Deviation 27.6 deg, Direction 114.5 deg



Electronic Drilling Recorder

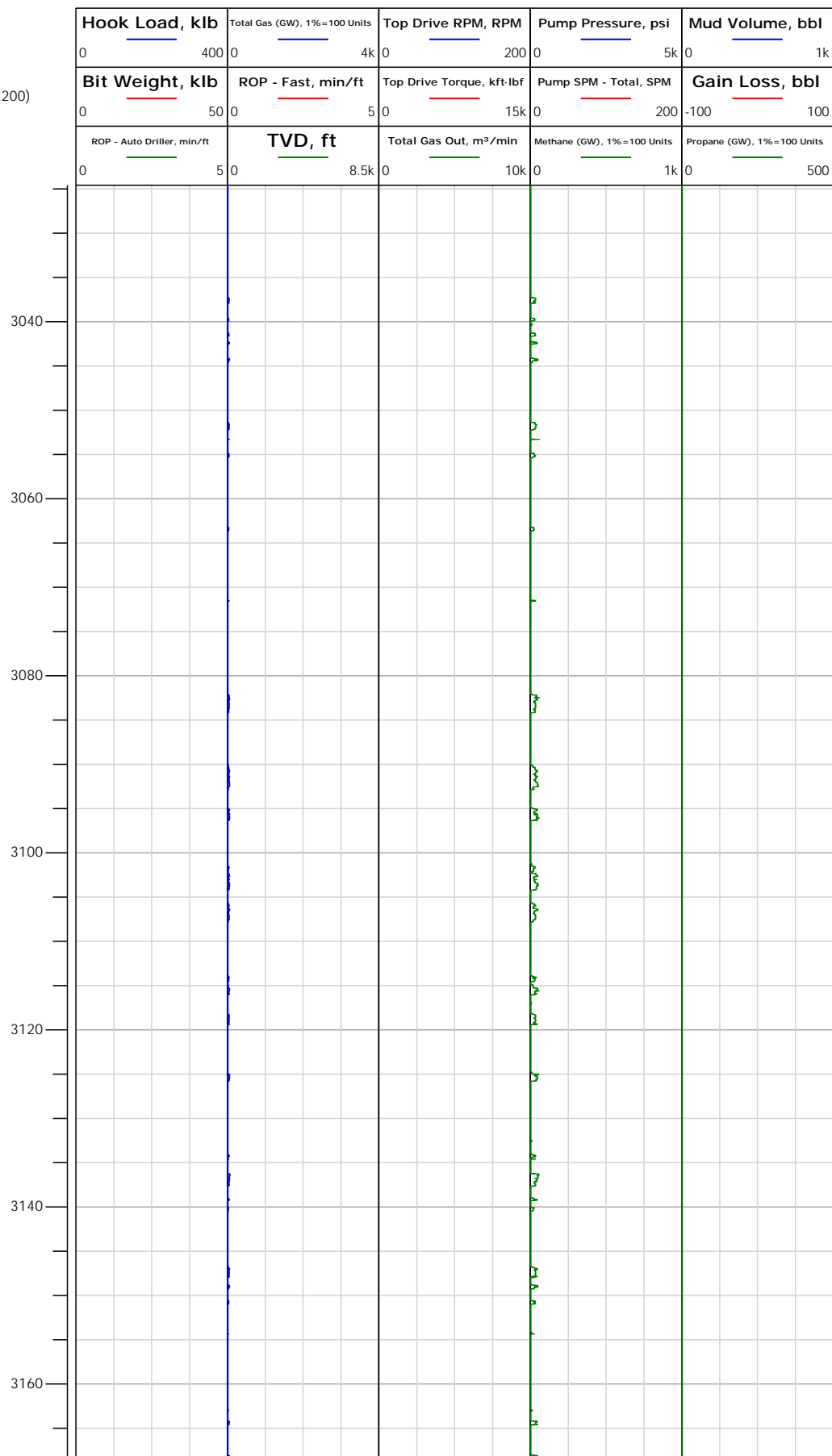
Operator: Laramie Energy
Contractor: Helmerich & Payne Drlg Co

Well Name: Gunderson BCU 20-08E
Rig: 522

Location:

Depth in ft (1:200)

Notes





Electronic Drilling Recorder

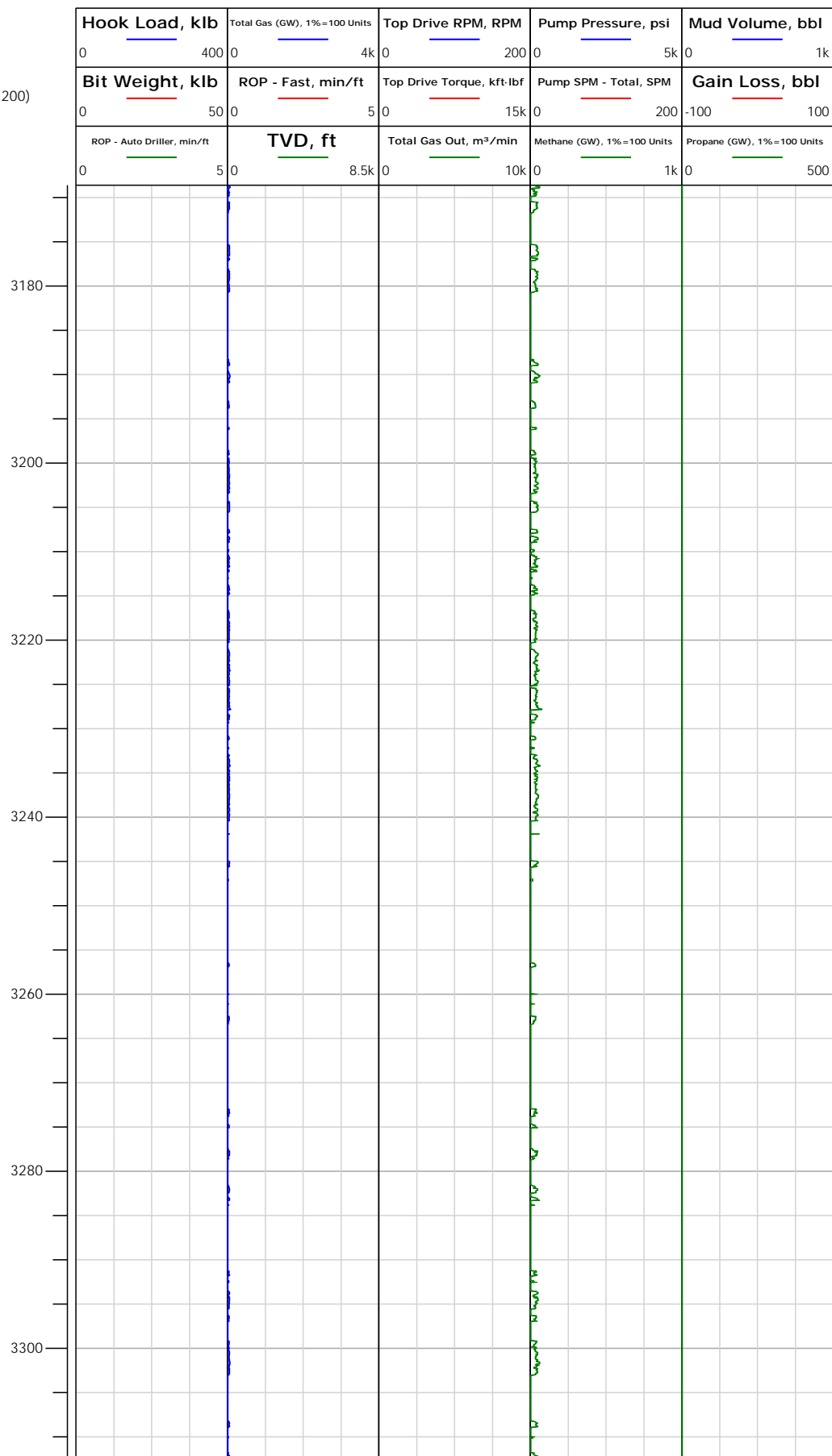
Operator: Laramie Energy
Contractor: Helmerich & Payne Drlg Co

Well Name: Gunderson BCU 20-08E
Rig: 522

Location:

Depth in ft (1:200)

Notes



3184.00: Deviation Survey
3184.00 ft, Deviation 27.5
deg, Direction 114.9 deg

3242.02: Connection @
3242.02 ft

3278.00: Deviation Survey
3278.00 ft, Deviation 27.6
deg, Direction 113.8 deg



Electronic Drilling Recorder

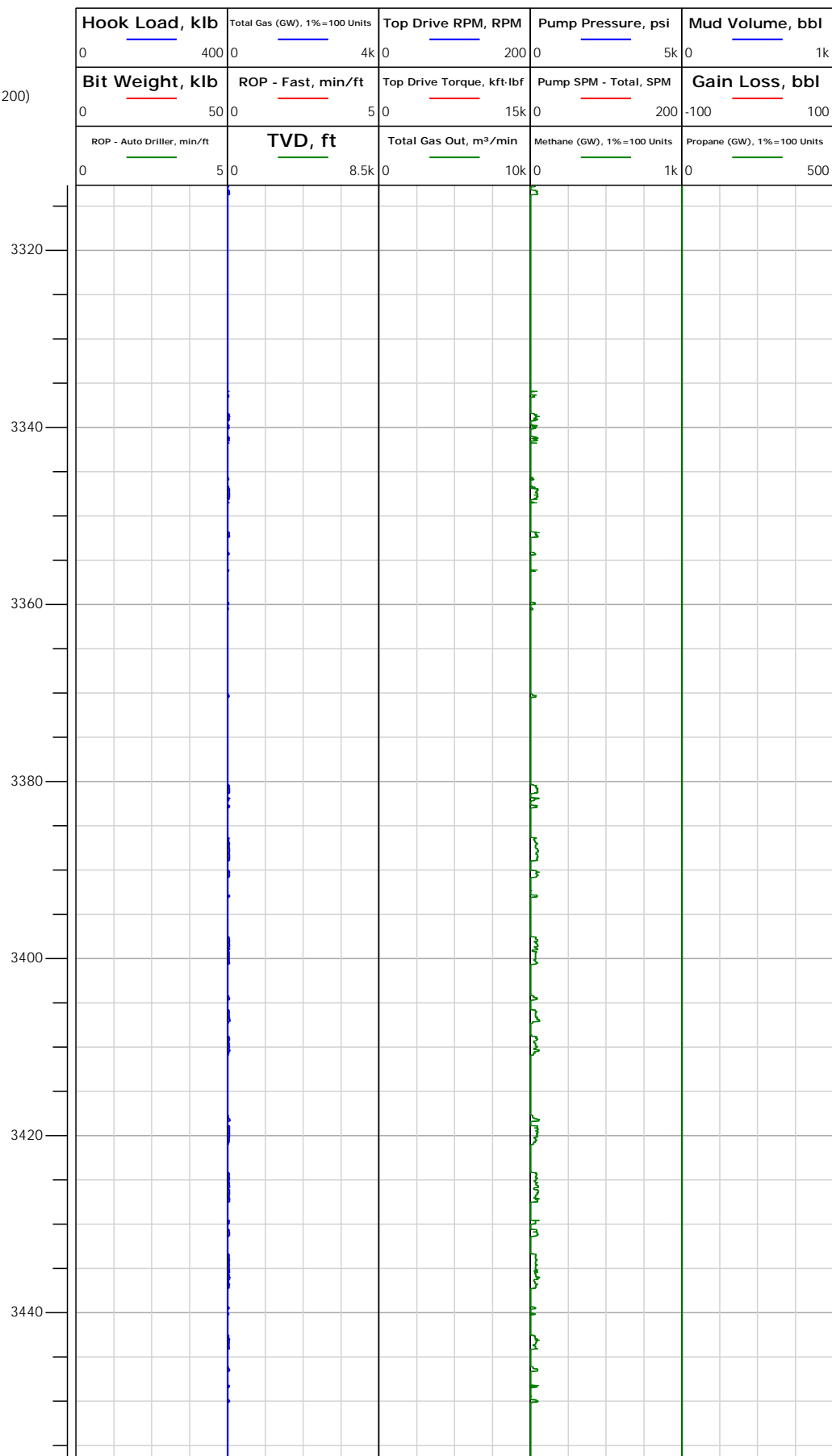
Operator: Laramie Energy
Contractor: Helmerich & Payne Drlg Co

Well Name: Gunderson BCU 20-08E
Rig: 522

Location:

Depth in ft (1:200)

Notes





Electronic Drilling Recorder

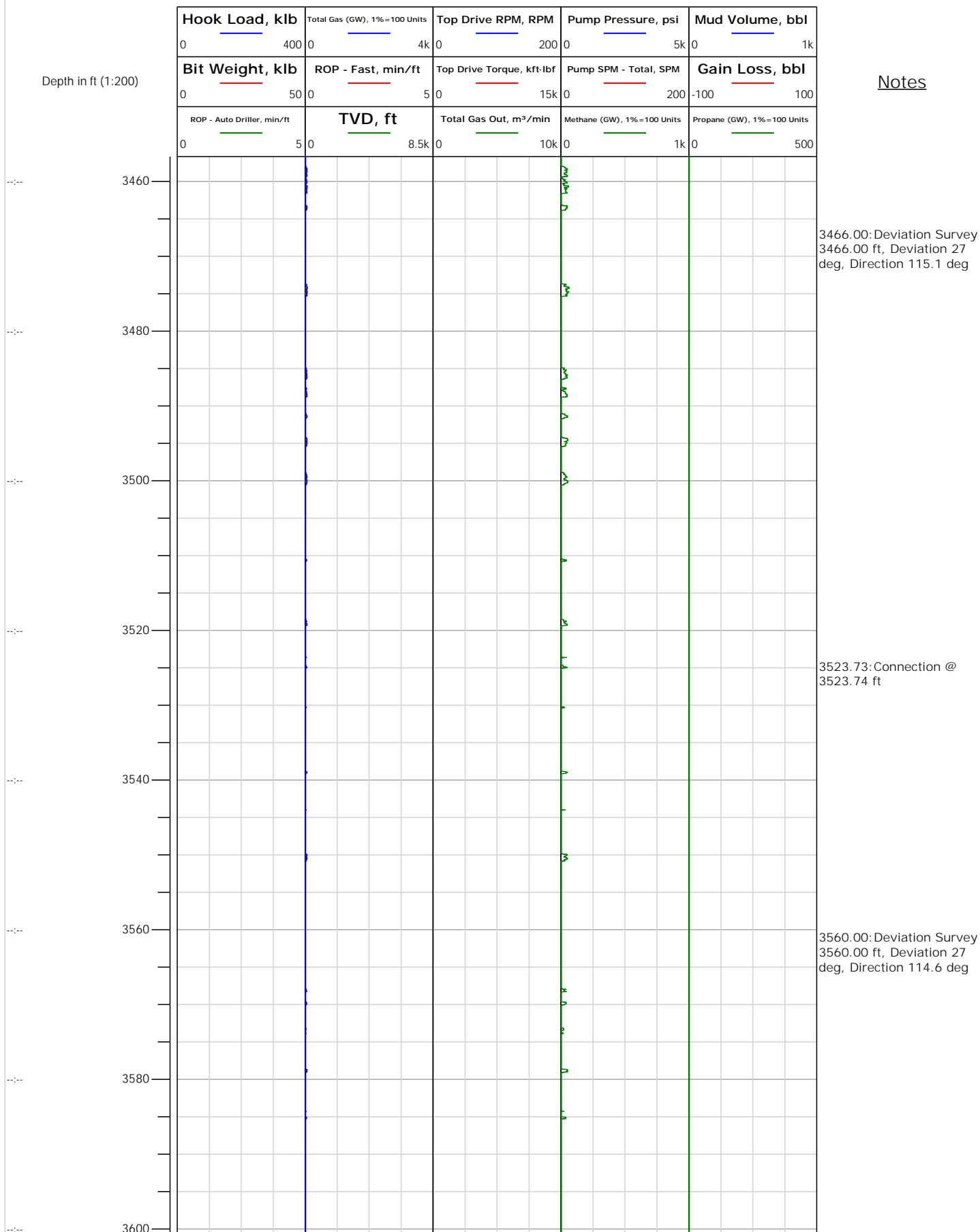
Operator: Laramie Energy
Contractor: Helmerich & Payne Drlg Co

Well Name: Gunderson BCU 20-08E
Rig: 522

Location:

Depth in ft (1:200)

Notes





Electronic Drilling Recorder

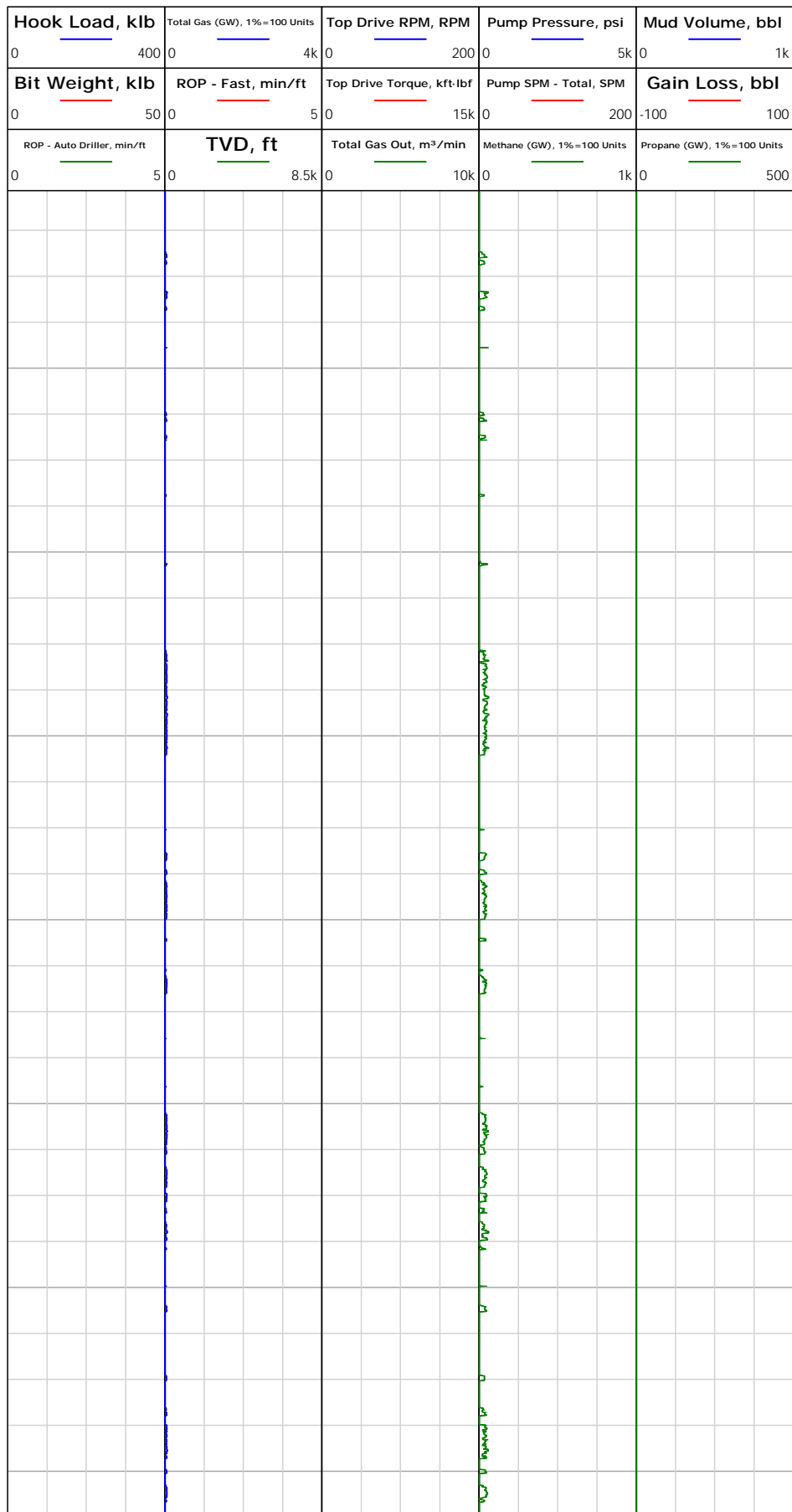
Operator: Laramie Energy
Contractor: Helmerich & Payne Drlg Co

Well Name: Gunderson BCU 20-08E
Rig: 522

Location:

Depth in ft (1:200)

Notes



3617.67: Connection @
3617.67 ft

3654.99: Deviation Survey
3655.00 ft, Deviation 27.2
deg, Direction 113.7 deg

3712.01: Connection @
3712.01 ft



Electronic Drilling Recorder

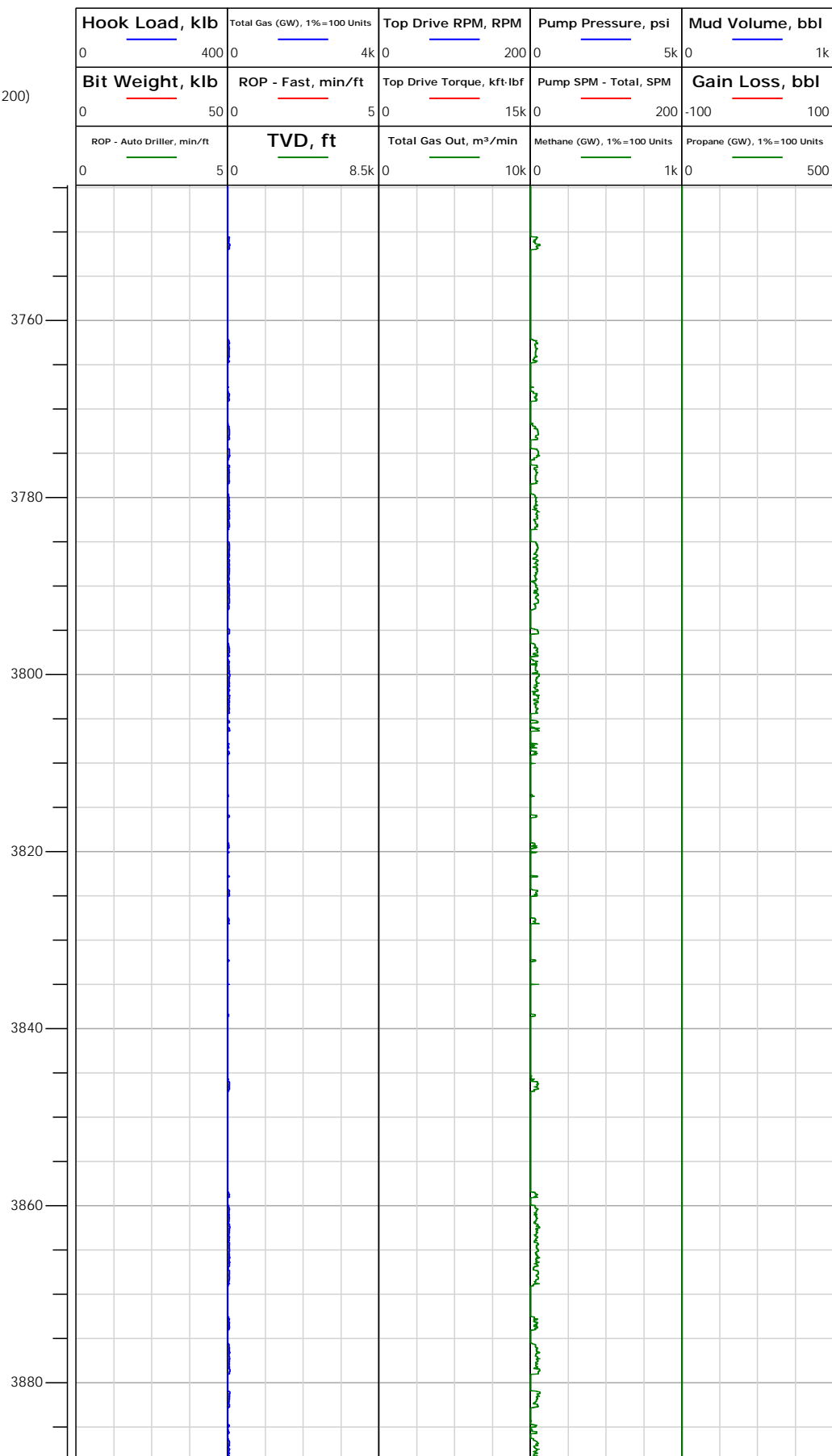
Operator: Laramie Energy
Contractor: Helmerich & Payne Drlg Co

Well Name: Gunderson BCU 20-08E
Rig: 522

Location:

Depth in ft (1:200)

Notes





Electronic Drilling Recorder

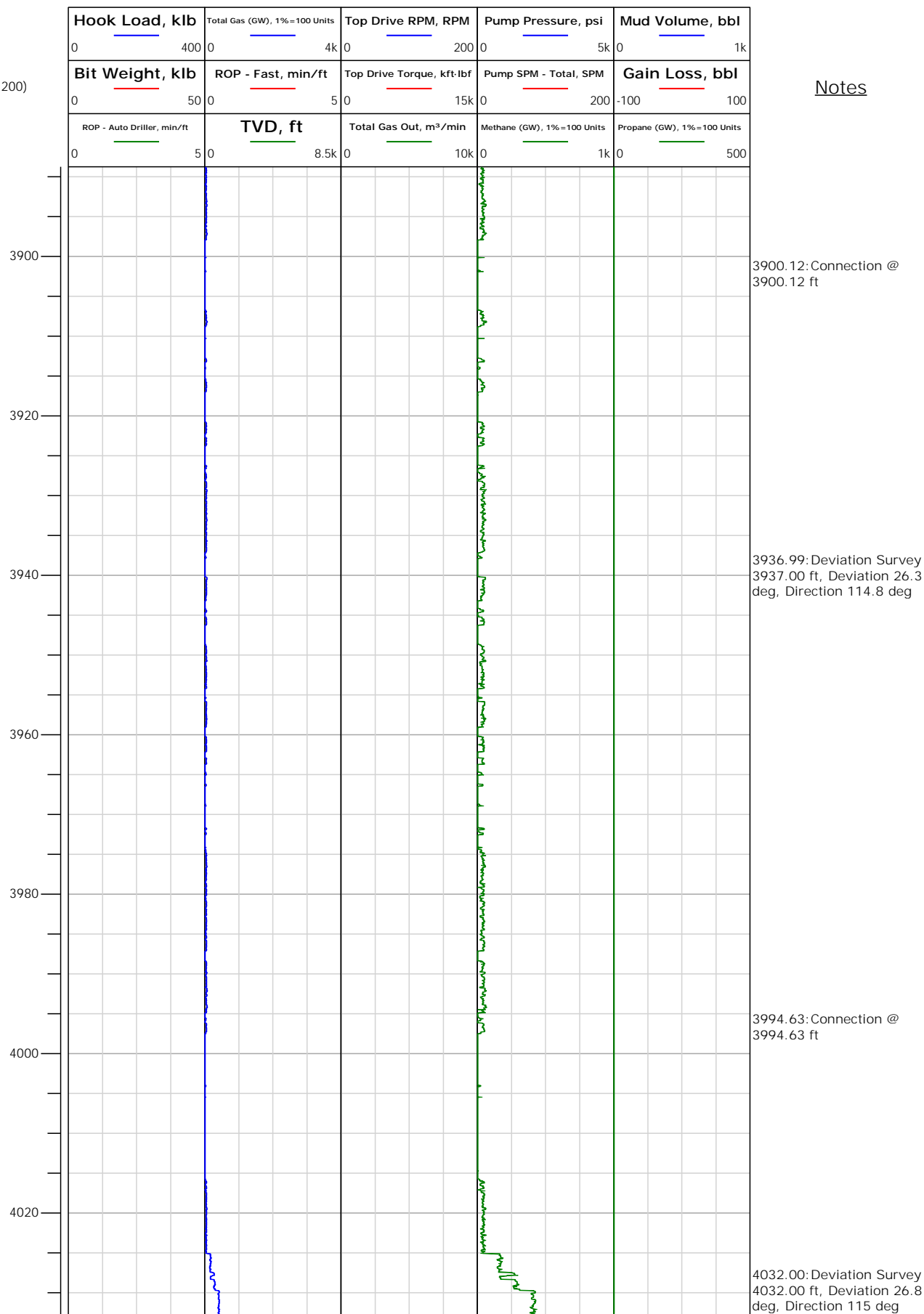
Operator: Laramie Energy
Contractor: Helmerich & Payne Drlg Co

Well Name: Gunderson BCU 20-08E
Rig: 522

Location:

Depth in ft (1:200)

Notes





Electronic Drilling Recorder

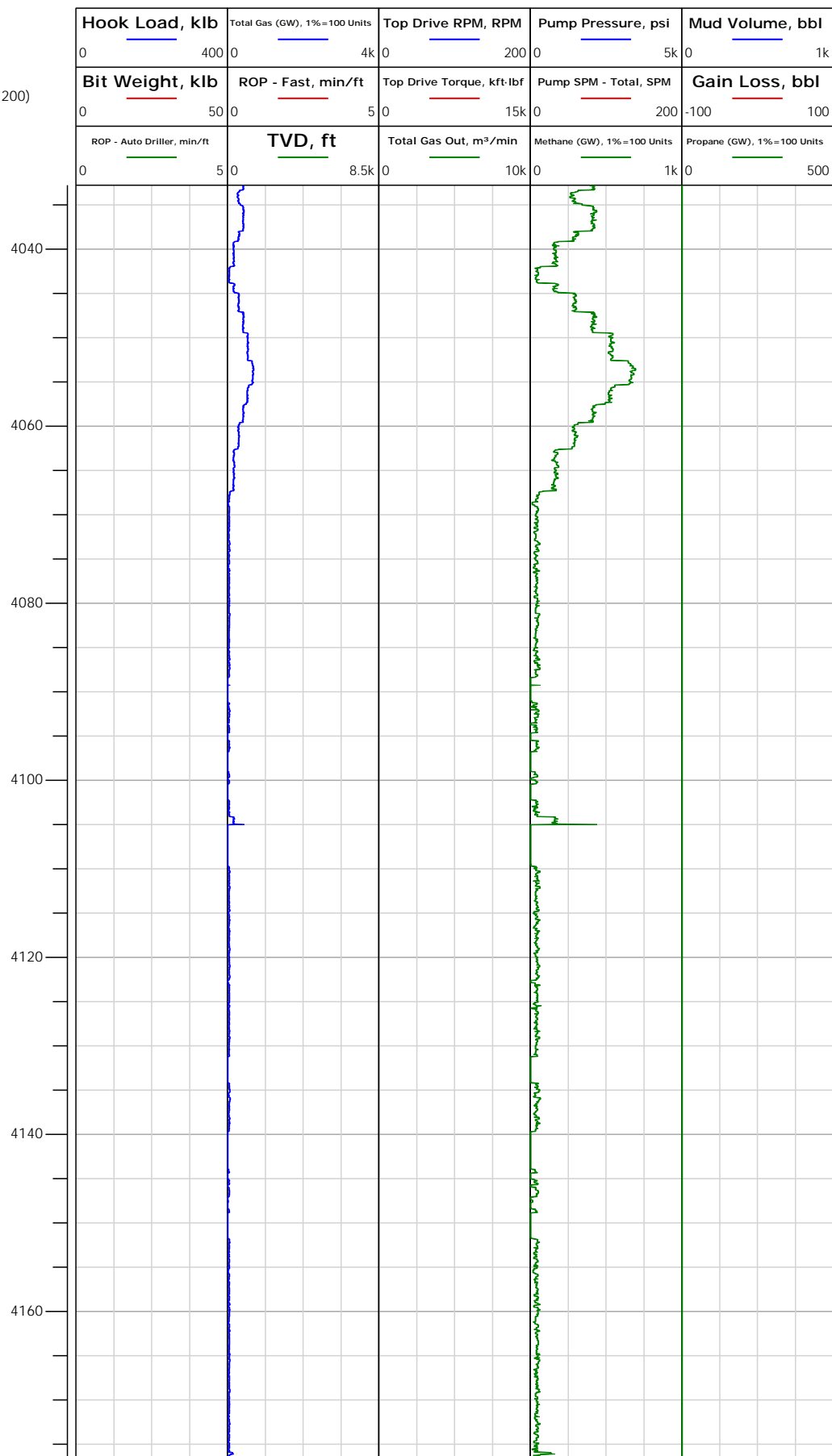
Operator: Laramie Energy
Contractor: Helmerich & Payne Drlg Co

Well Name: Gunderson BCU 20-08E
Rig: 522

Location:

Depth in ft (1:200)

Notes





Electronic Drilling Recorder

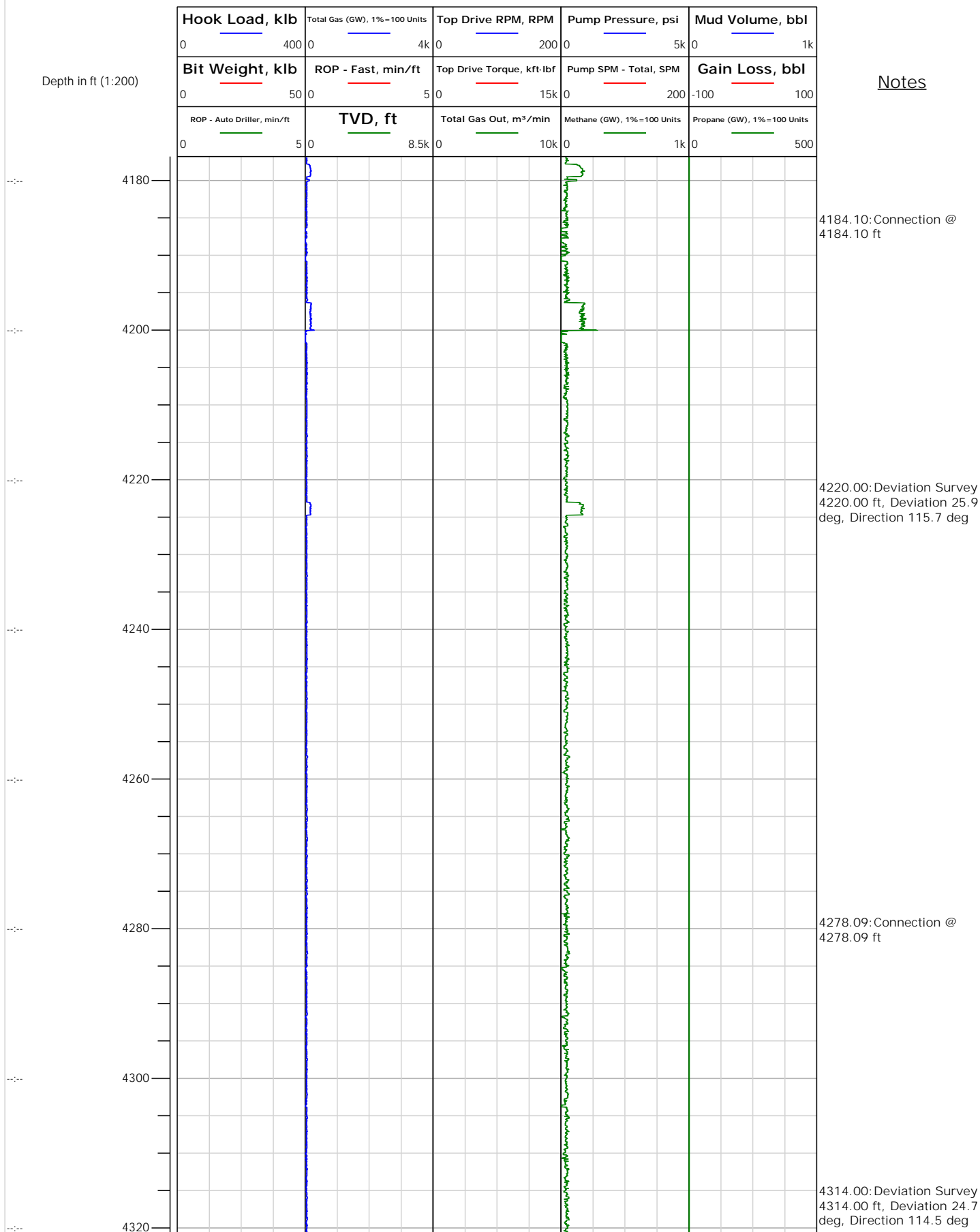
Operator: Laramie Energy
Contractor: Helmerich & Payne Drlg Co

Well Name: Gunderson BCU 20-08E
Rig: 522

Location:

Depth in ft (1:200)

Notes





Electronic Drilling Recorder

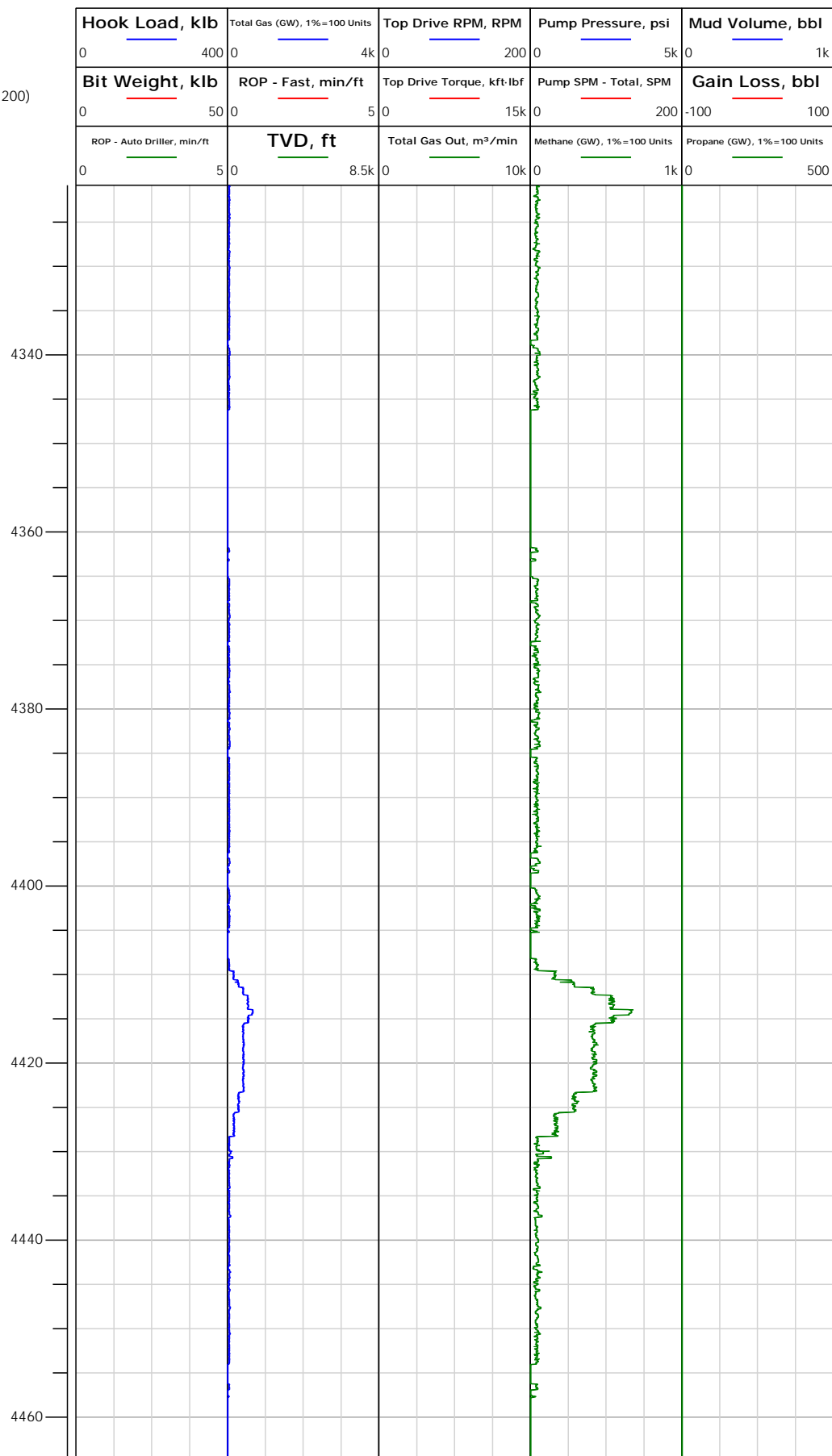
Operator: Laramie Energy
Contractor: Helmerich & Payne Drlg Co

Well Name: Gunderson BCU 20-08E
Rig: 522

Location:

Depth in ft (1:200)

Notes





Electronic Drilling Recorder

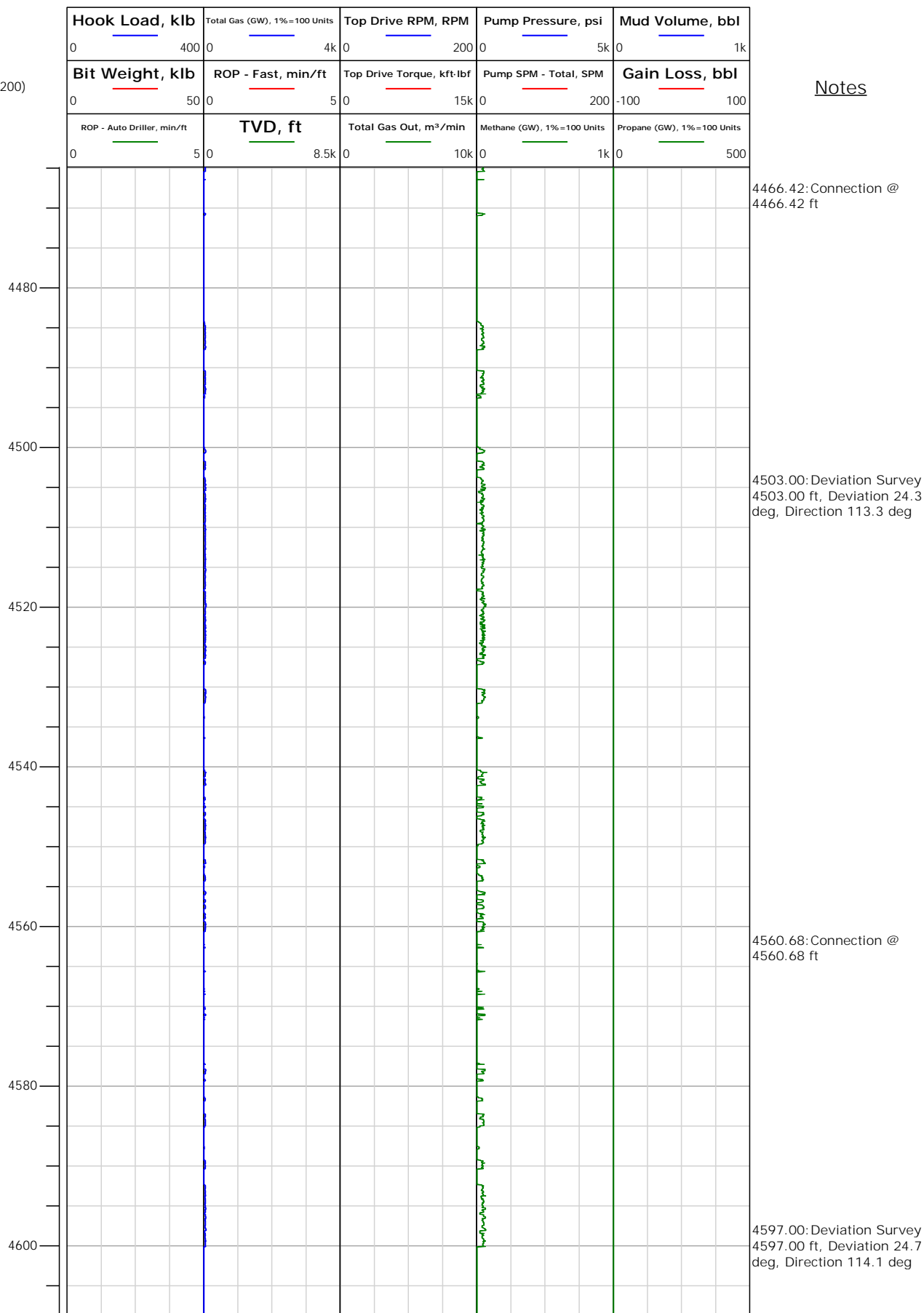
Operator: Laramie Energy
Contractor: Helmerich & Payne Drlg Co

Well Name: Gunderson BCU 20-08E
Rig: 522

Location:

Depth in ft (1:200)

Notes





Electronic Drilling Recorder

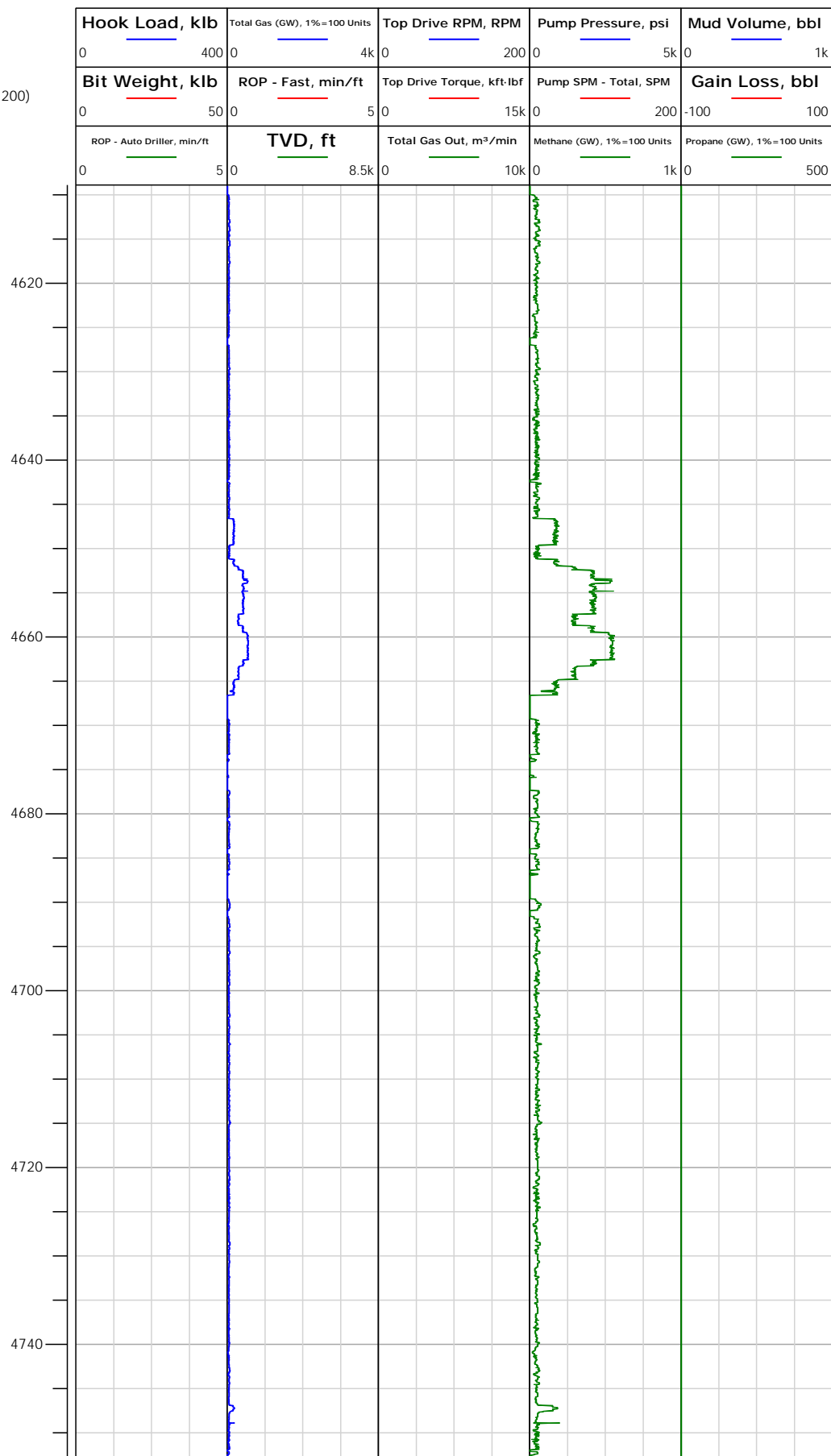
Operator: Laramie Energy
Contractor: Helmerich & Payne Drlg Co

Well Name: Gunderson BCU 20-08E
Rig: 522

Location:

Depth in ft (1:200)

Notes





Electronic Drilling Recorder

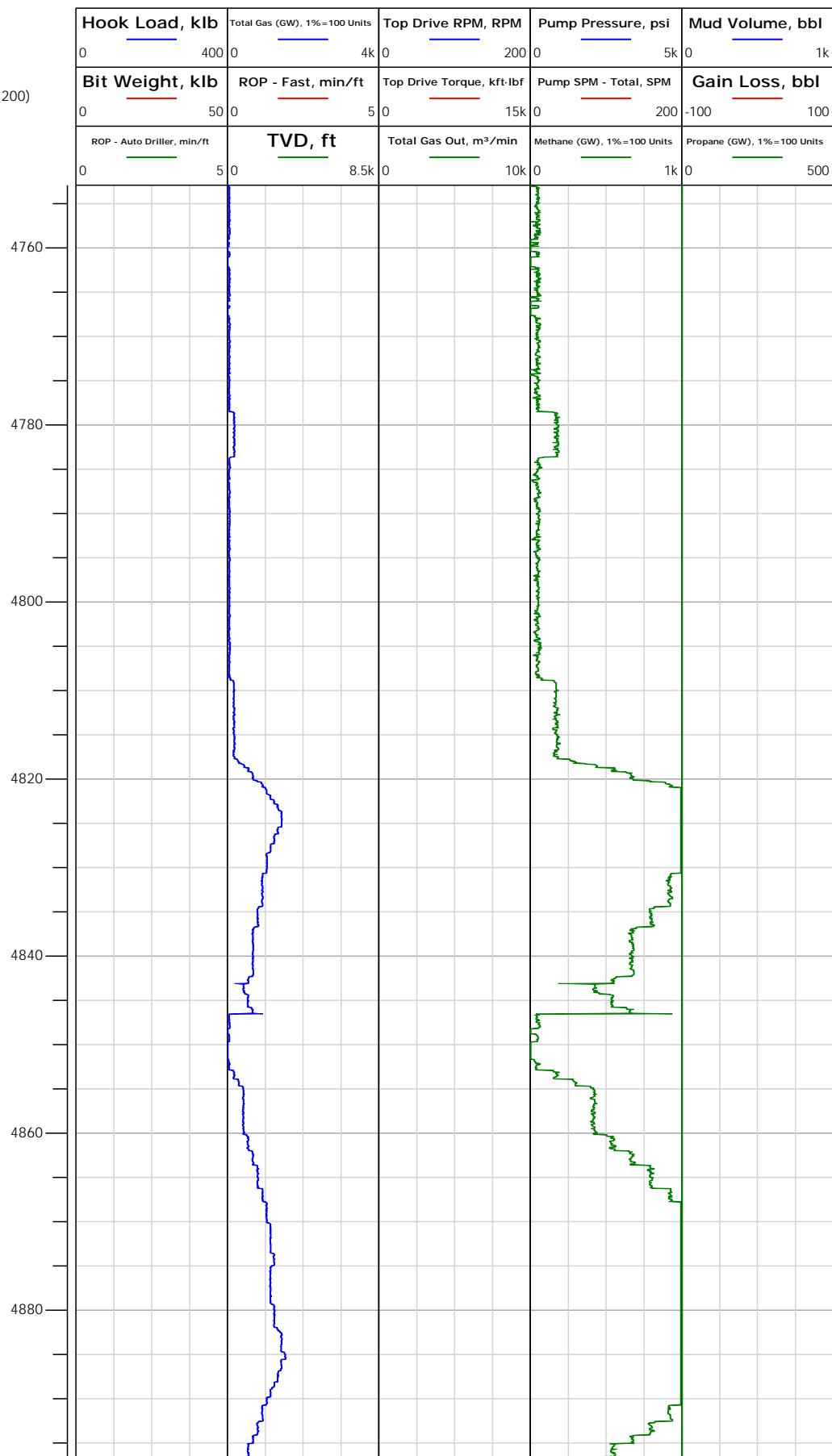
Operator: Laramie Energy
Contractor: Helmerich & Payne Drlg Co

Well Name: Gunderson BCU 20-08E
Rig: 522

Location:

Depth in ft (1:200)

Notes





Electronic Drilling Recorder

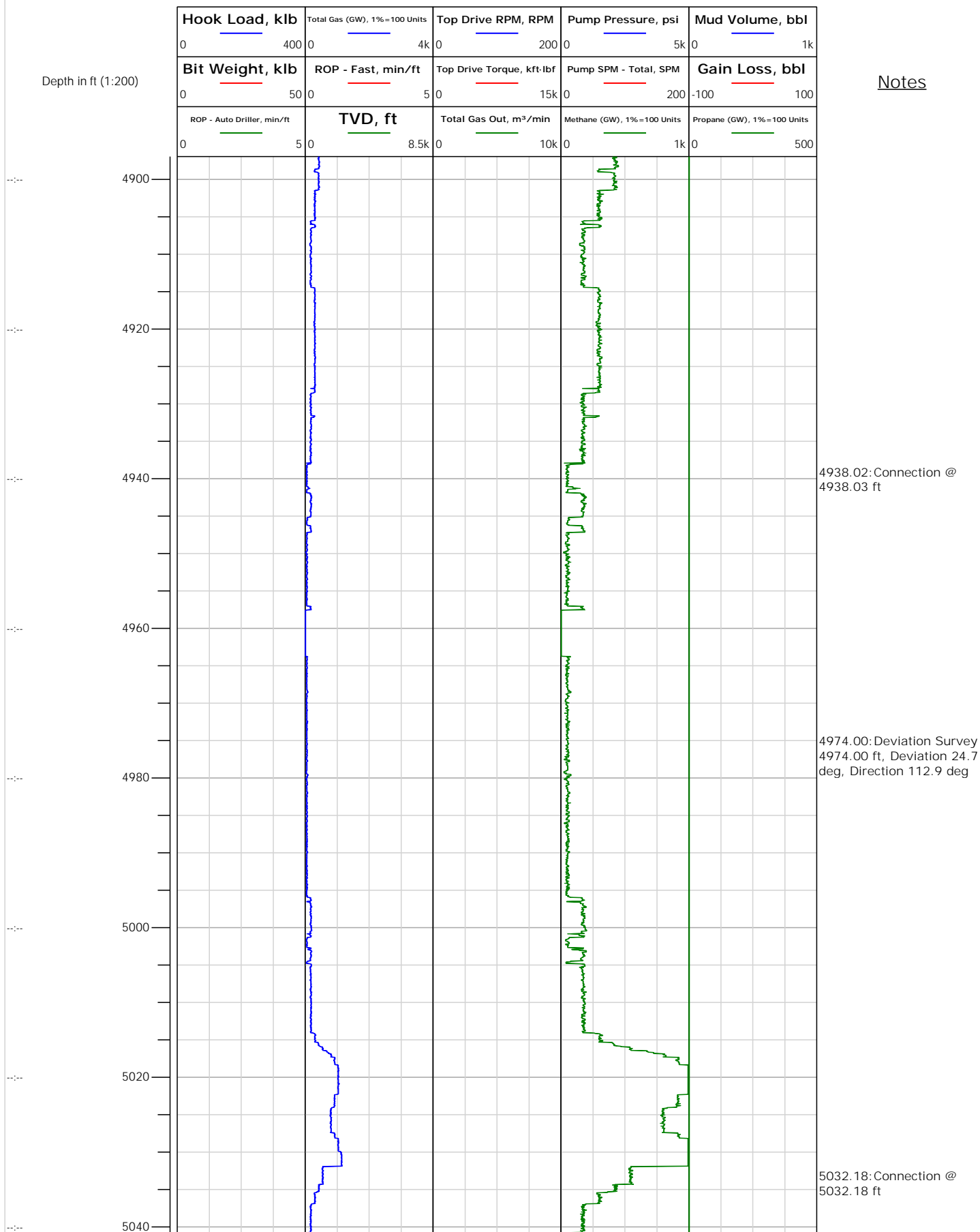
Operator: Laramie Energy
Contractor: Helmerich & Payne Drlg Co

Well Name: Gunderson BCU 20-08E
Rig: 522

Location:

Depth in ft (1:200)

Notes





Electronic Drilling Recorder

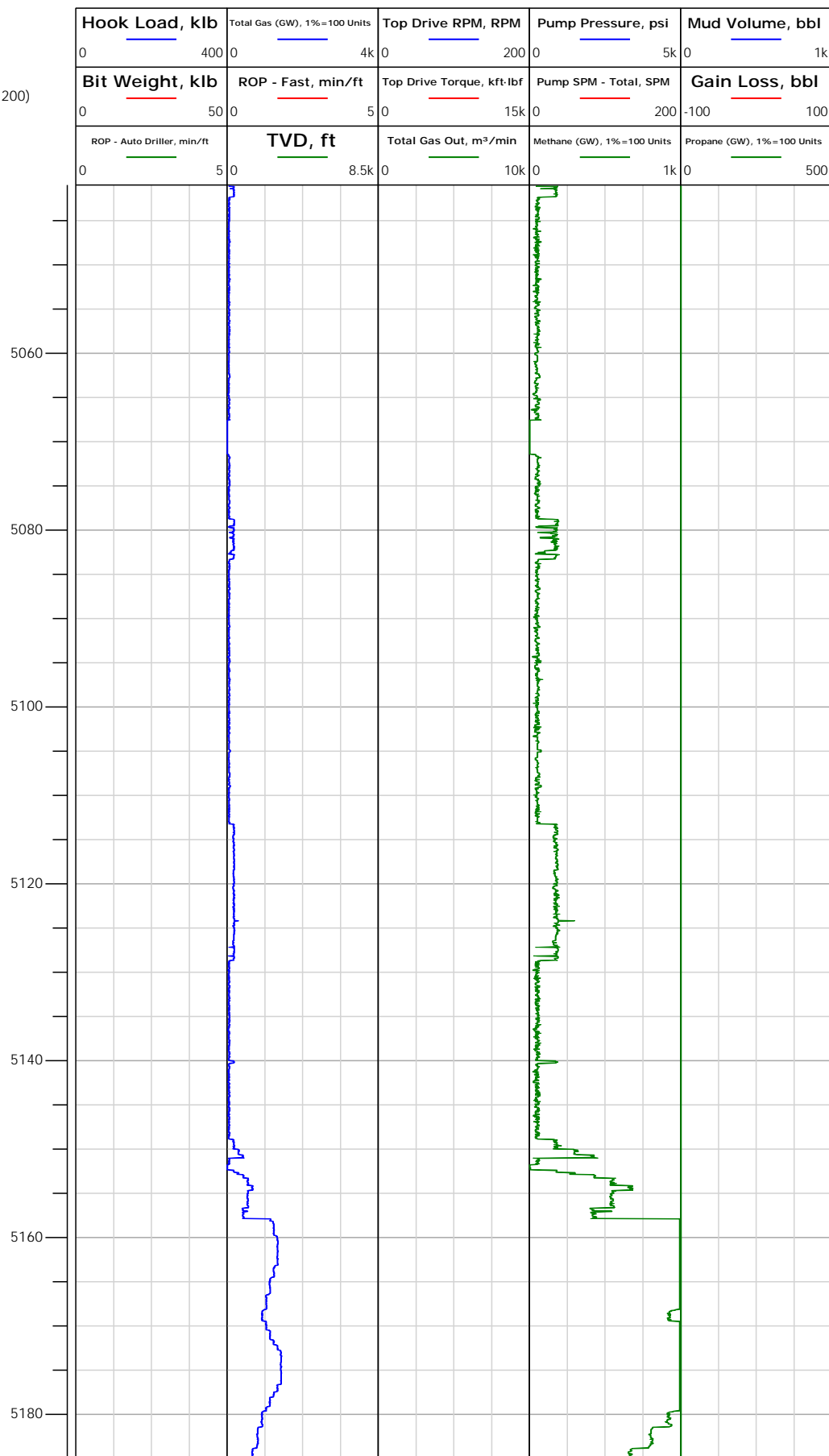
Operator: Laramie Energy
Contractor: Helmerich & Payne Drlg Co

Well Name: Gunderson BCU 20-08E
Rig: 522

Location:

Depth in ft (1:200)

Notes



5068.00: Deviation Survey
 5068.00 ft, Deviation 22.9
 deg, Direction 113.3 deg

5127.24: Connection @
 5127.24 ft

5162.00: Deviation Survey
 5162.00 ft, Deviation 19.6
 deg, Direction 113.2 deg



Electronic Drilling Recorder

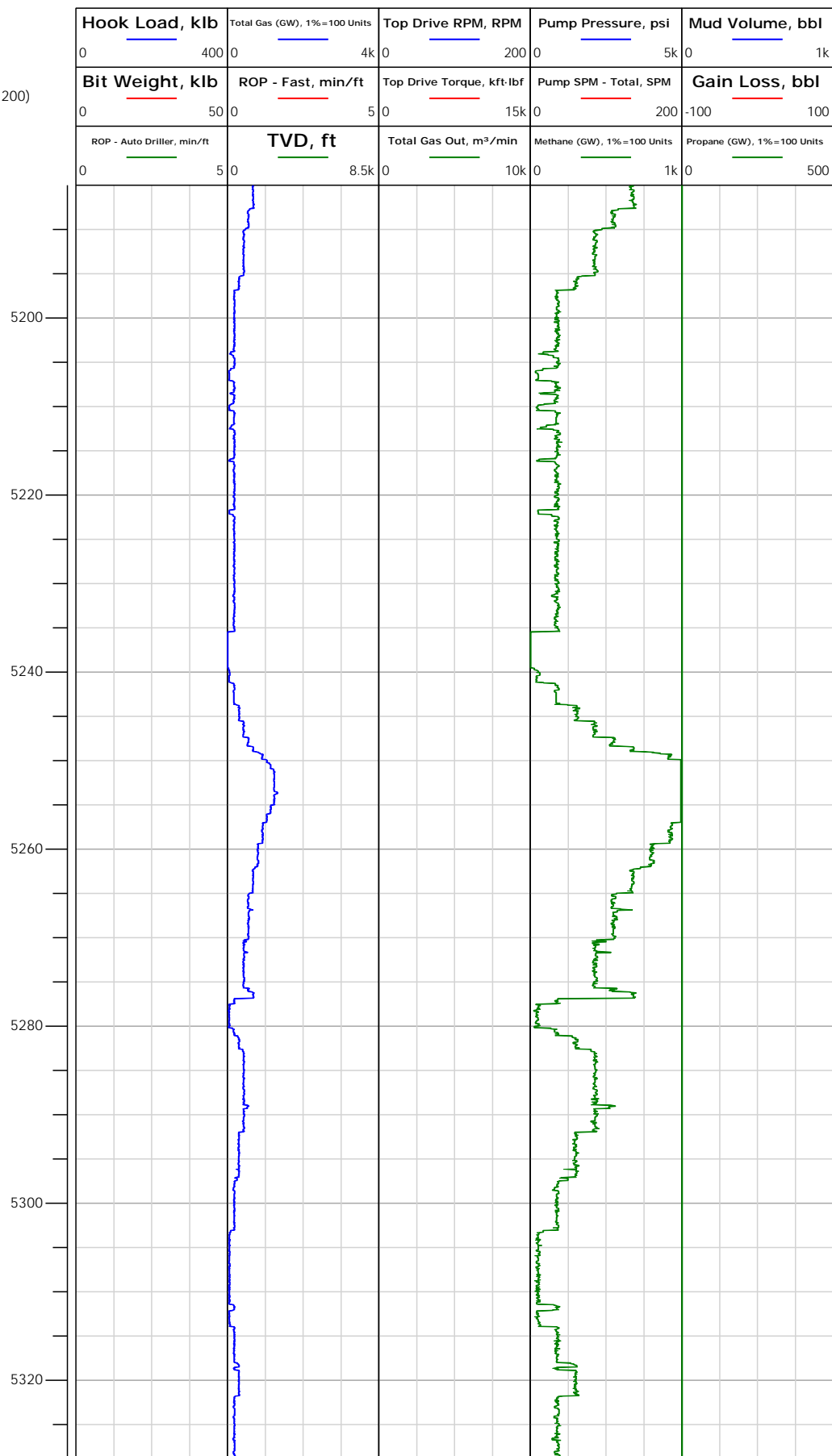
Operator: Laramie Energy
Contractor: Helmerich & Payne Drlg Co

Well Name: Gunderson BCU 20-08E
Rig: 522

Location:

Depth in ft (1:200)

Notes





Electronic Drilling Recorder

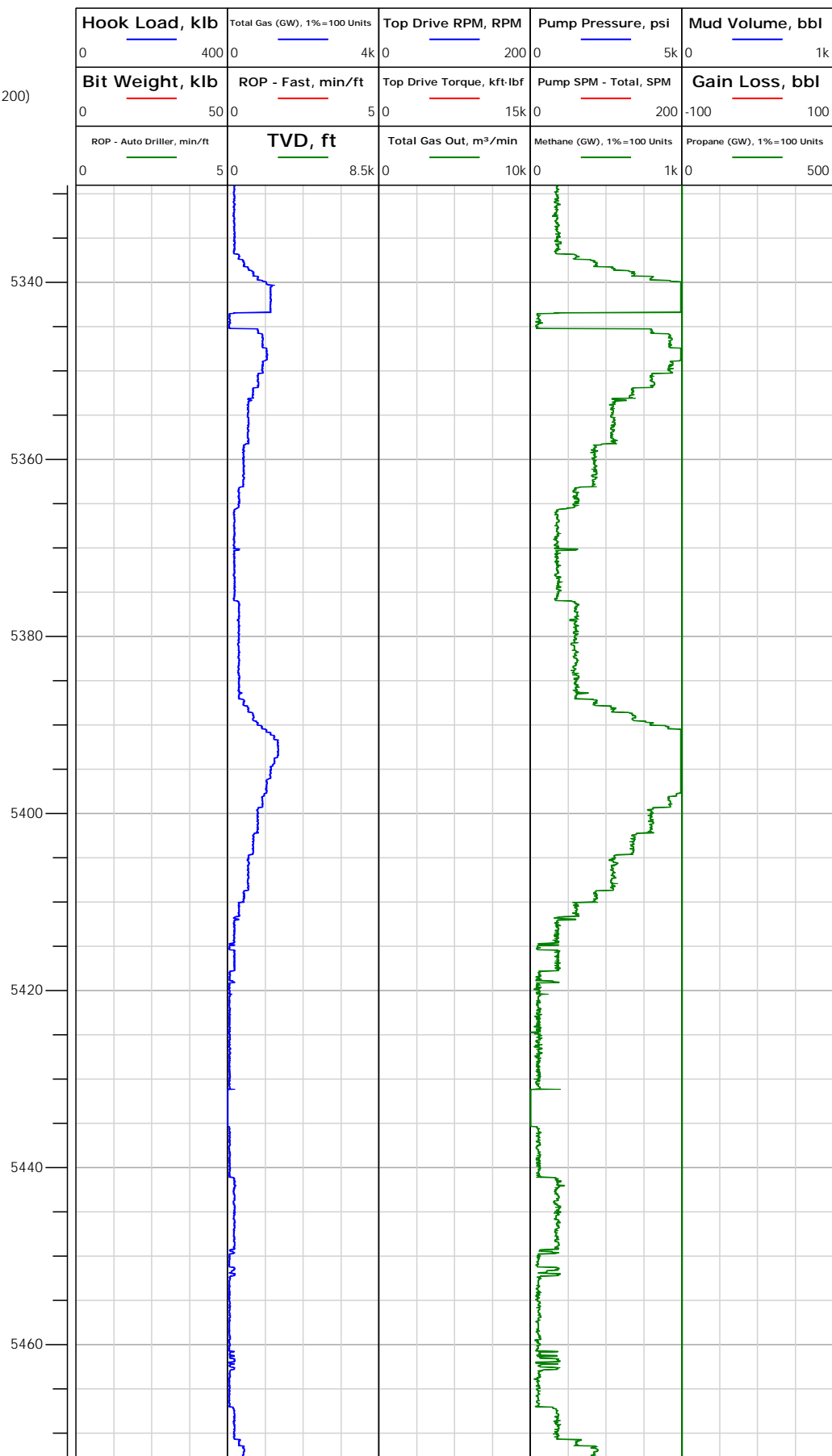
Operator: Laramie Energy
Contractor: Helmerich & Payne Drlg Co

Well Name: Gunderson BCU 20-08E
Rig: 522

Location:

Depth in ft (1:200)

Notes





Electronic Drilling Recorder

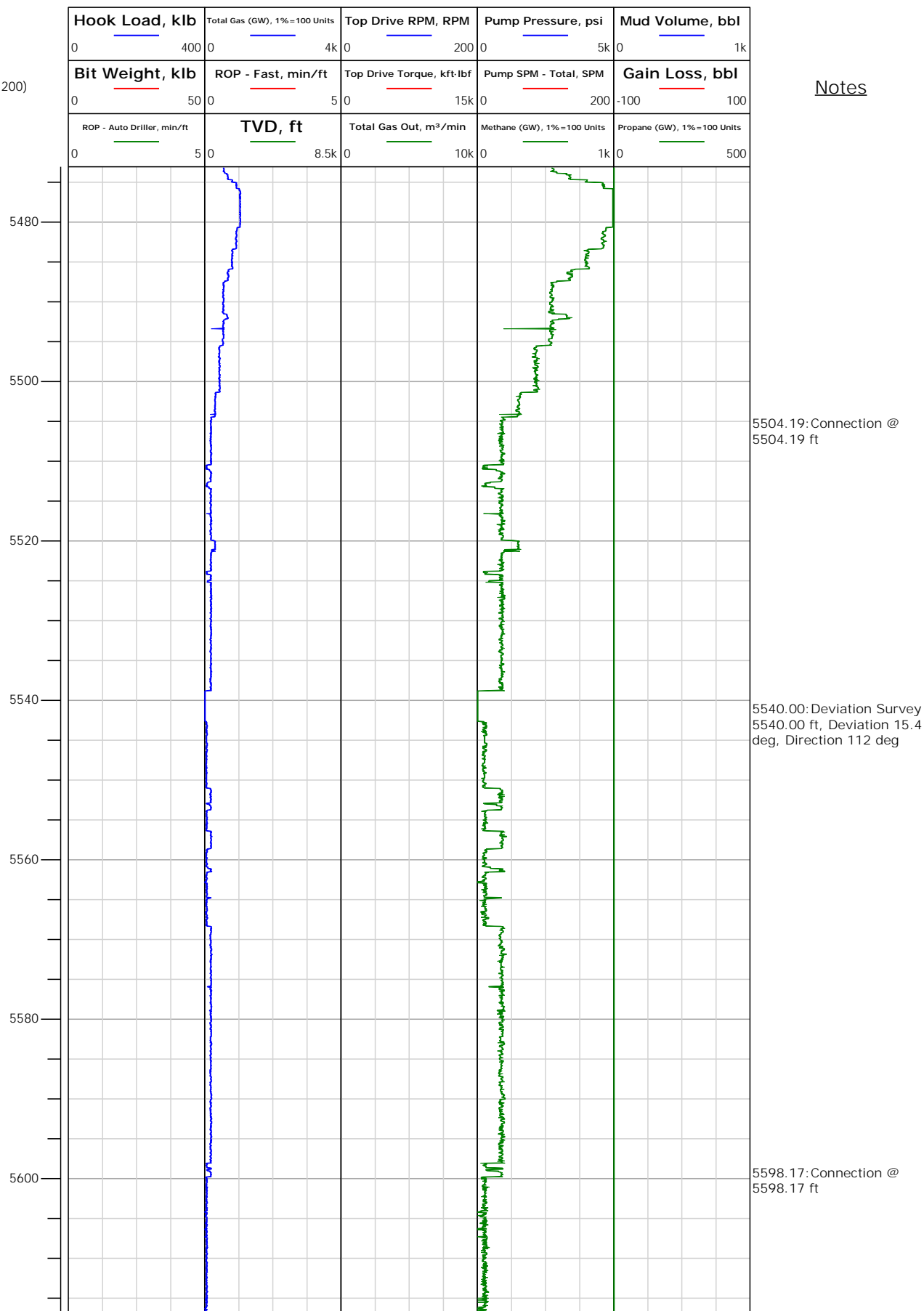
Operator: Laramie Energy
Contractor: Helmerich & Payne Drlg Co

Well Name: Gunderson BCU 20-08E
Rig: 522

Location:

Depth in ft (1:200)

Notes





Electronic Drilling Recorder

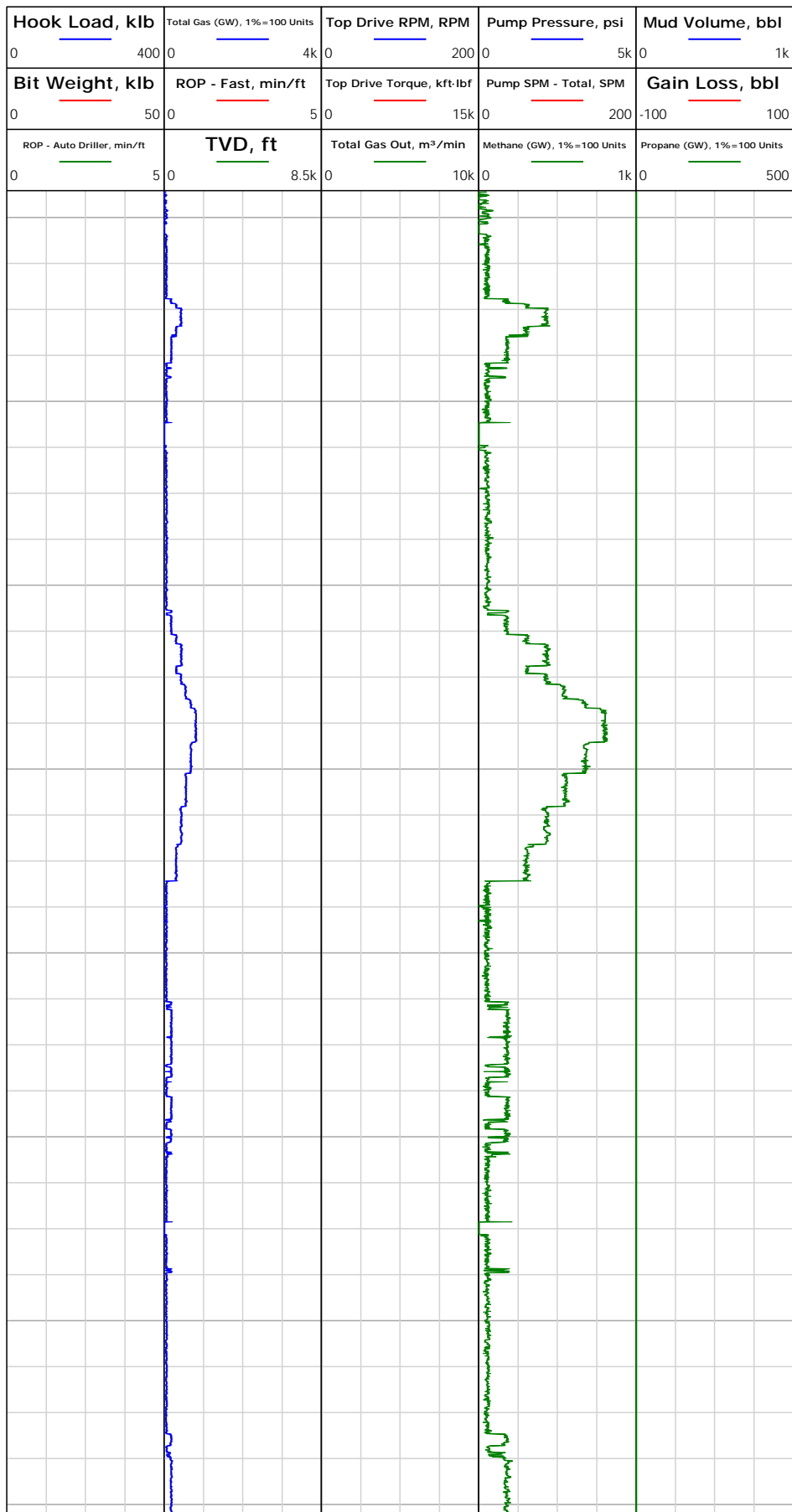
Operator: Laramie Energy
Contractor: Helmerich & Payne Drlg Co

Well Name: Gunderson BCU 20-08E
Rig: 522

Location:

Notes

Depth in ft (1:200)



5634.00: Deviation Survey
5634.00 ft, Deviation 13.2 deg, Direction 113.2 deg

5692.26: Connection @
5692.26 ft

5728.00: Deviation Survey
5728.00 ft, Deviation 9.9 deg, Direction 113.4 deg



Electronic Drilling Recorder

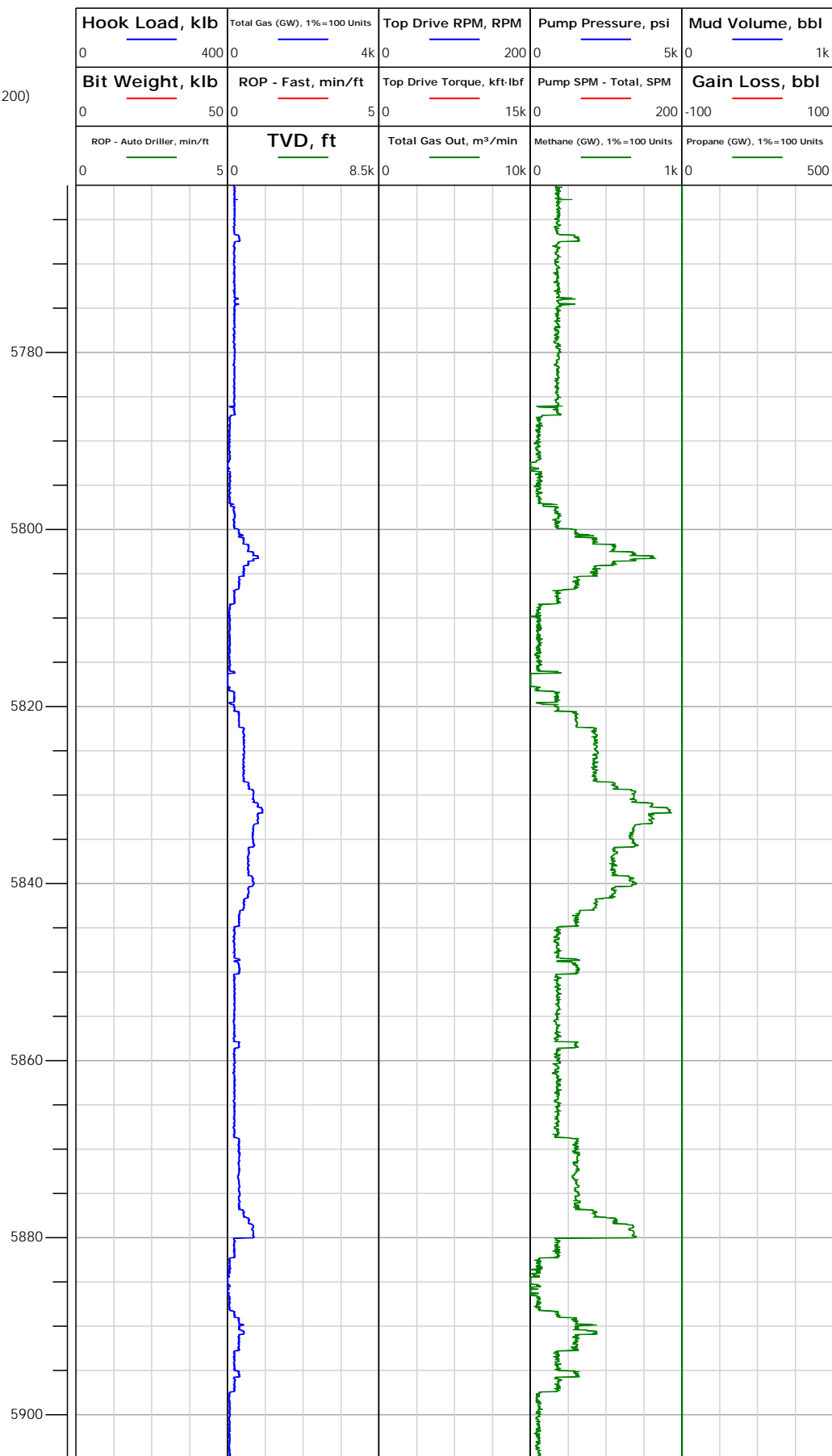
Operator: Laramie Energy
Contractor: Helmerich & Payne Drlg Co

Well Name: Gunderson BCU 20-08E
Rig: 522

Location:

Depth in ft (1:200)

Notes



5786.16: Connection @
5786.16 ft

5822.00: Deviation Survey
5822.00 ft, Deviation 7.9
deg, Direction 115.7 deg

5880.29: Connection @
5880.29 ft



Electronic Drilling Recorder

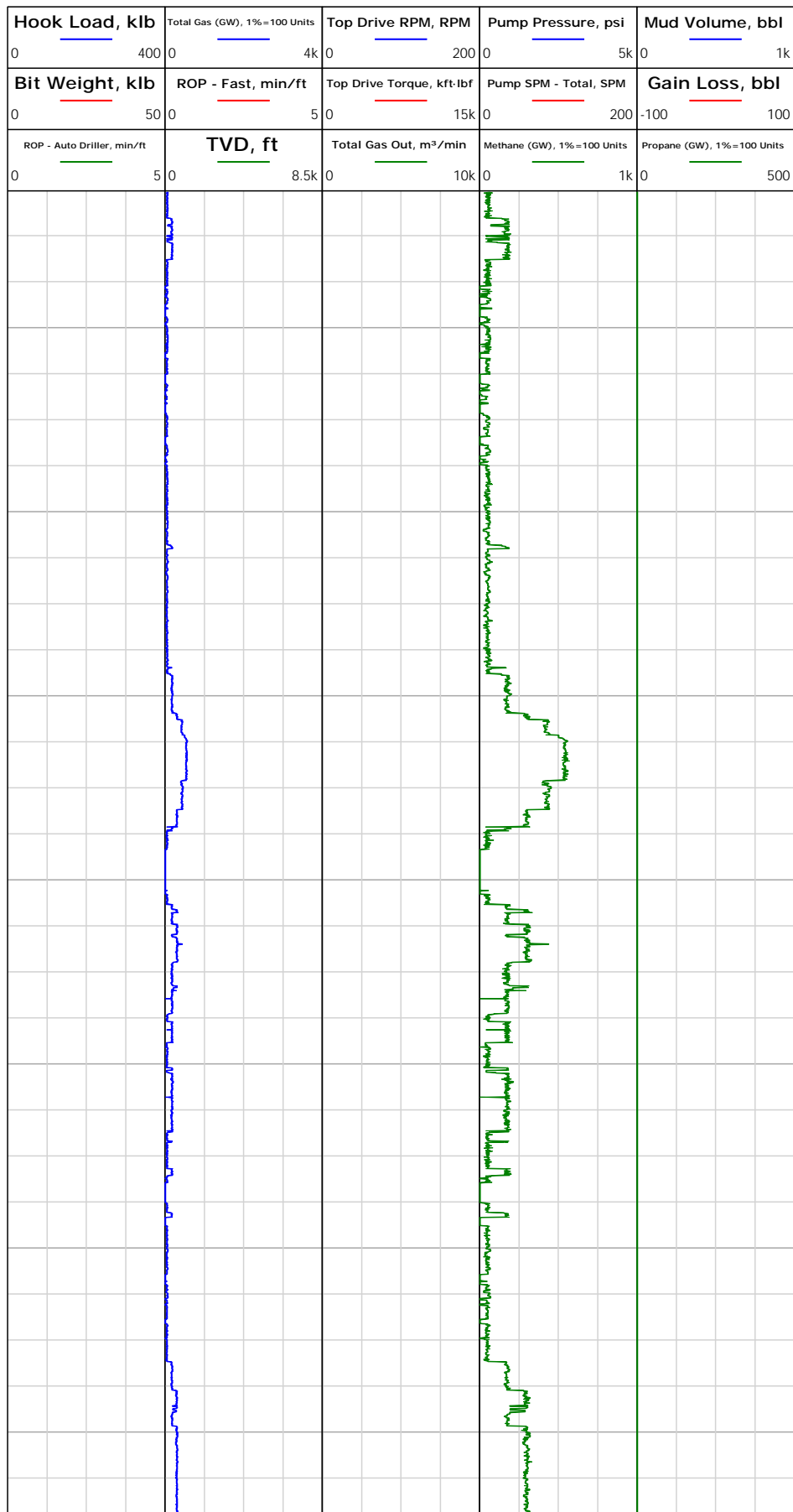
Operator: Laramie Energy
Contractor: Helmerich & Payne Drlg Co

Well Name: Gunderson BCU 20-08E
Rig: 522

Location:

Notes

Depth in ft (1:200)



5917.00: Deviation Survey
 5917.00 ft, Deviation 5.6
 deg, Direction 116.7 deg

5974.30: Connection @
 5974.30 ft

6011.00: Deviation Survey
 6011.00 ft, Deviation 3.3
 deg, Direction 118.1 deg



Electronic Drilling Recorder

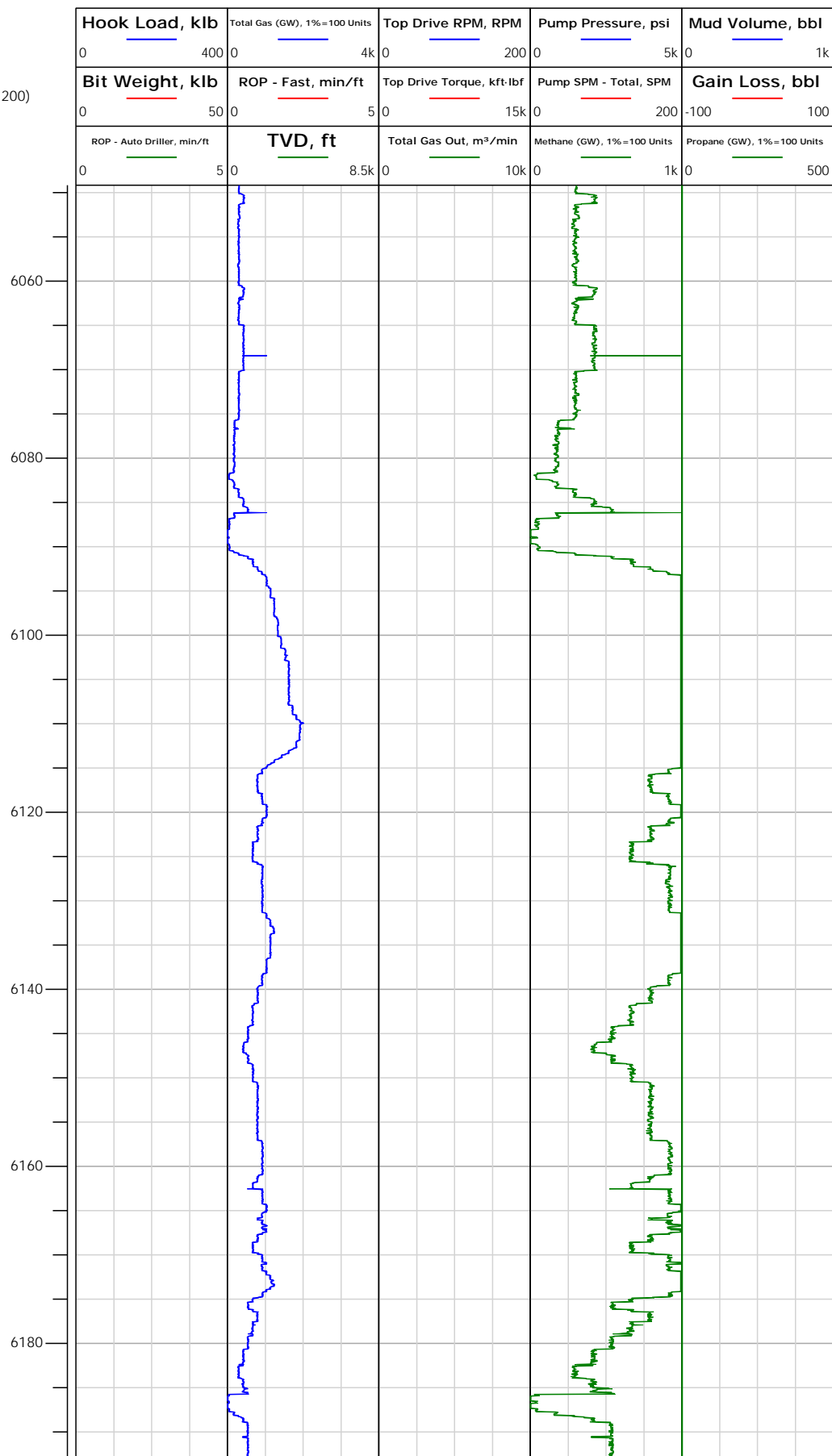
Operator: Laramie Energy
Contractor: Helmerich & Payne Drlg Co

Well Name: Gunderson BCU 20-08E
Rig: 522

Location:

Depth in ft (1:200)

Notes





Electronic Drilling Recorder

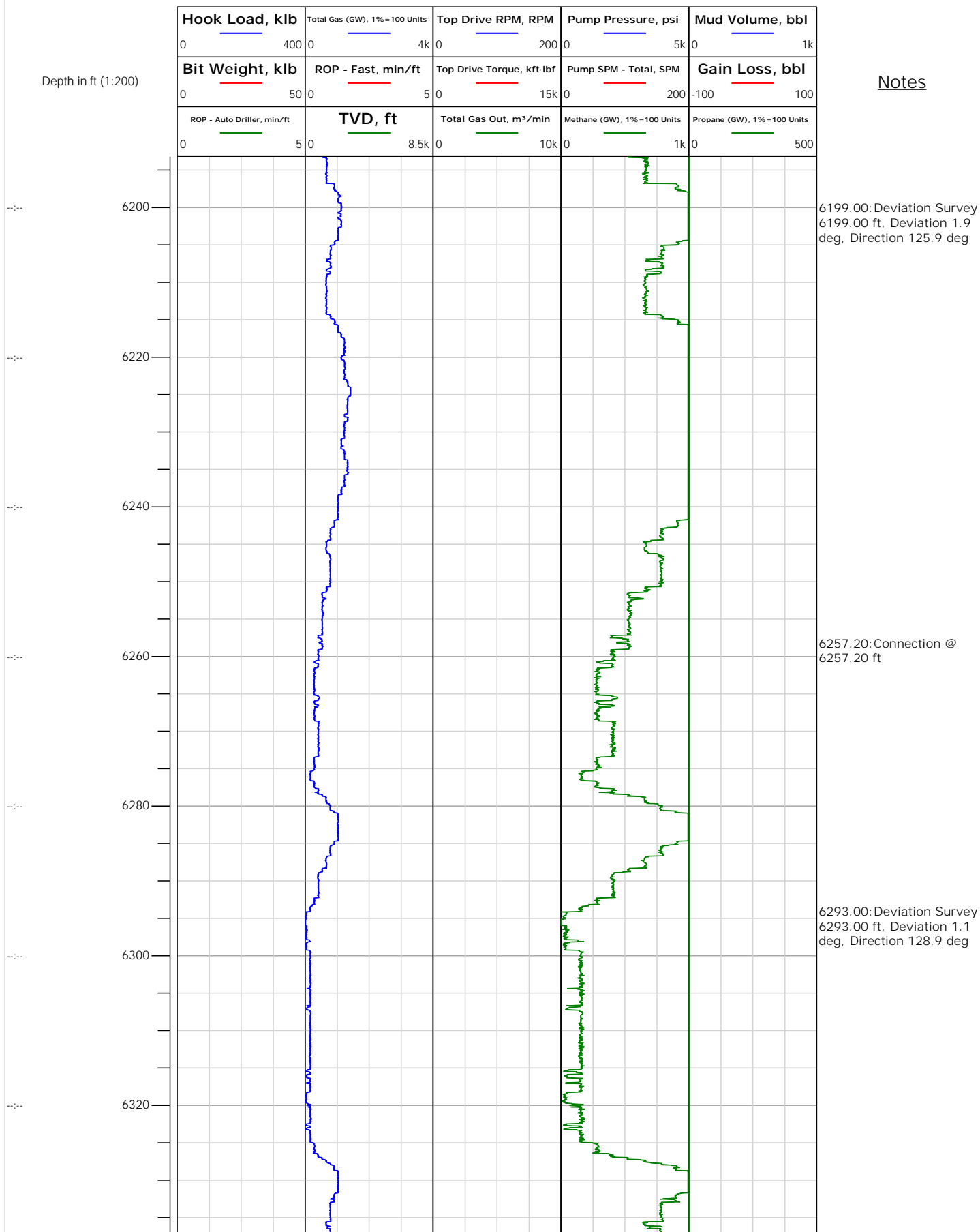
Operator: Laramie Energy
Contractor: Helmerich & Payne Drlg Co

Well Name: Gunderson BCU 20-08E
Rig: 522

Location:

Depth in ft (1:200)

Notes





Electronic Drilling Recorder

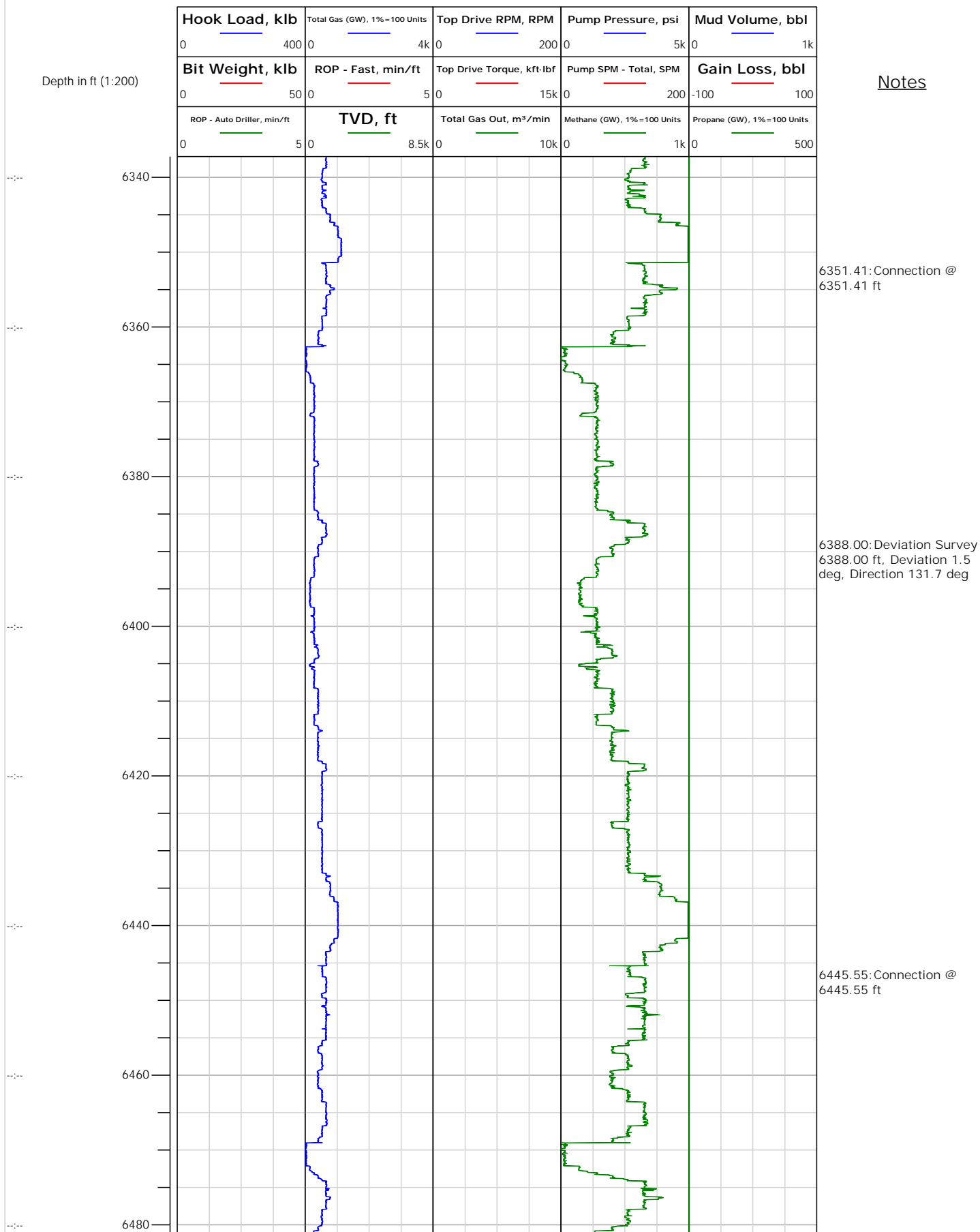
Operator: Laramie Energy
Contractor: Helmerich & Payne Drlg Co

Well Name: Gunderson BCU 20-08E
Rig: 522

Location:

Depth in ft (1:200)

Notes





Electronic Drilling Recorder

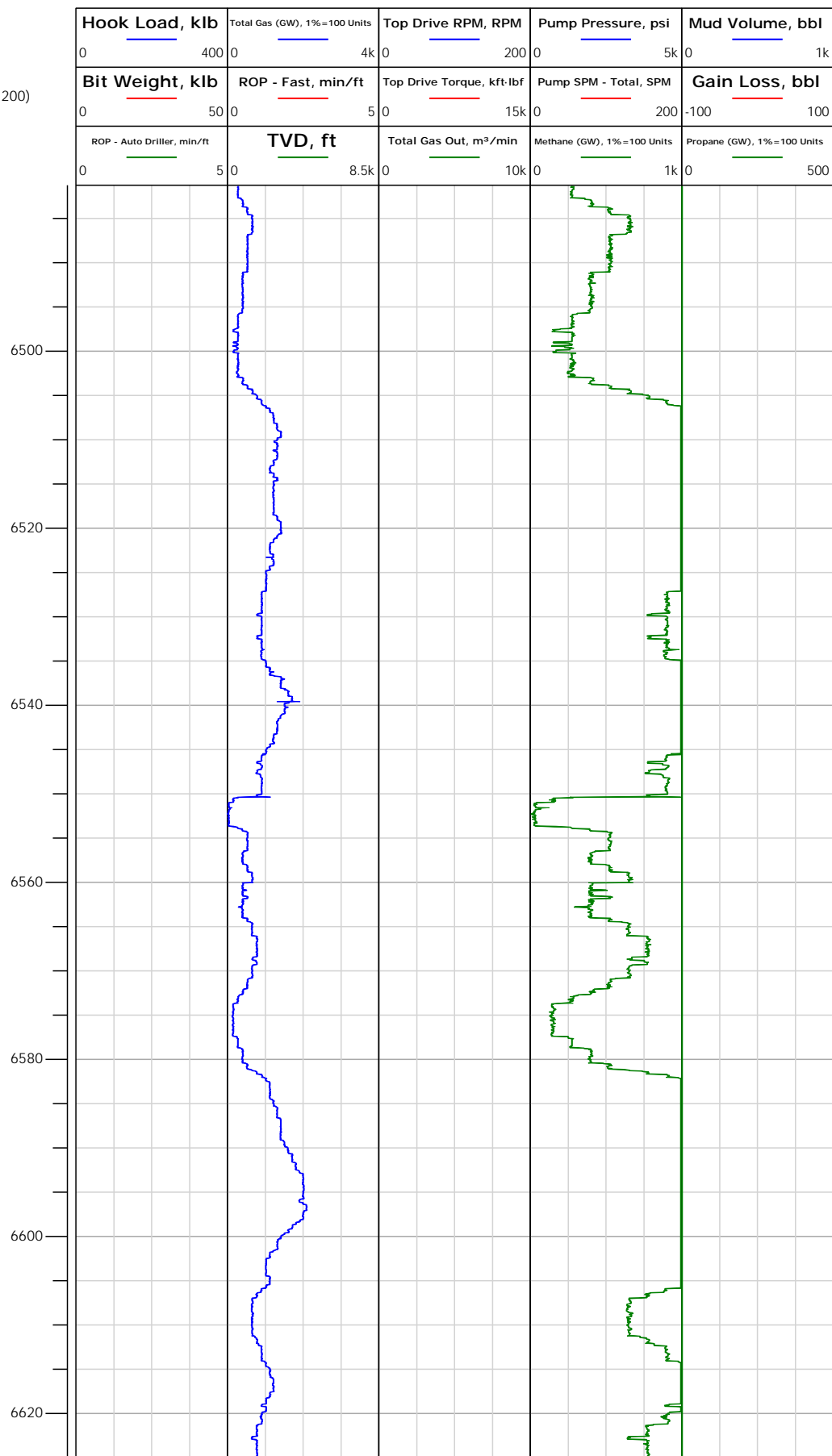
Operator: Laramie Energy
Contractor: Helmerich & Payne Drlg Co

Well Name: Gunderson BCU 20-08E
Rig: 522

Location:

Depth in ft (1:200)

Notes





Electronic Drilling Recorder

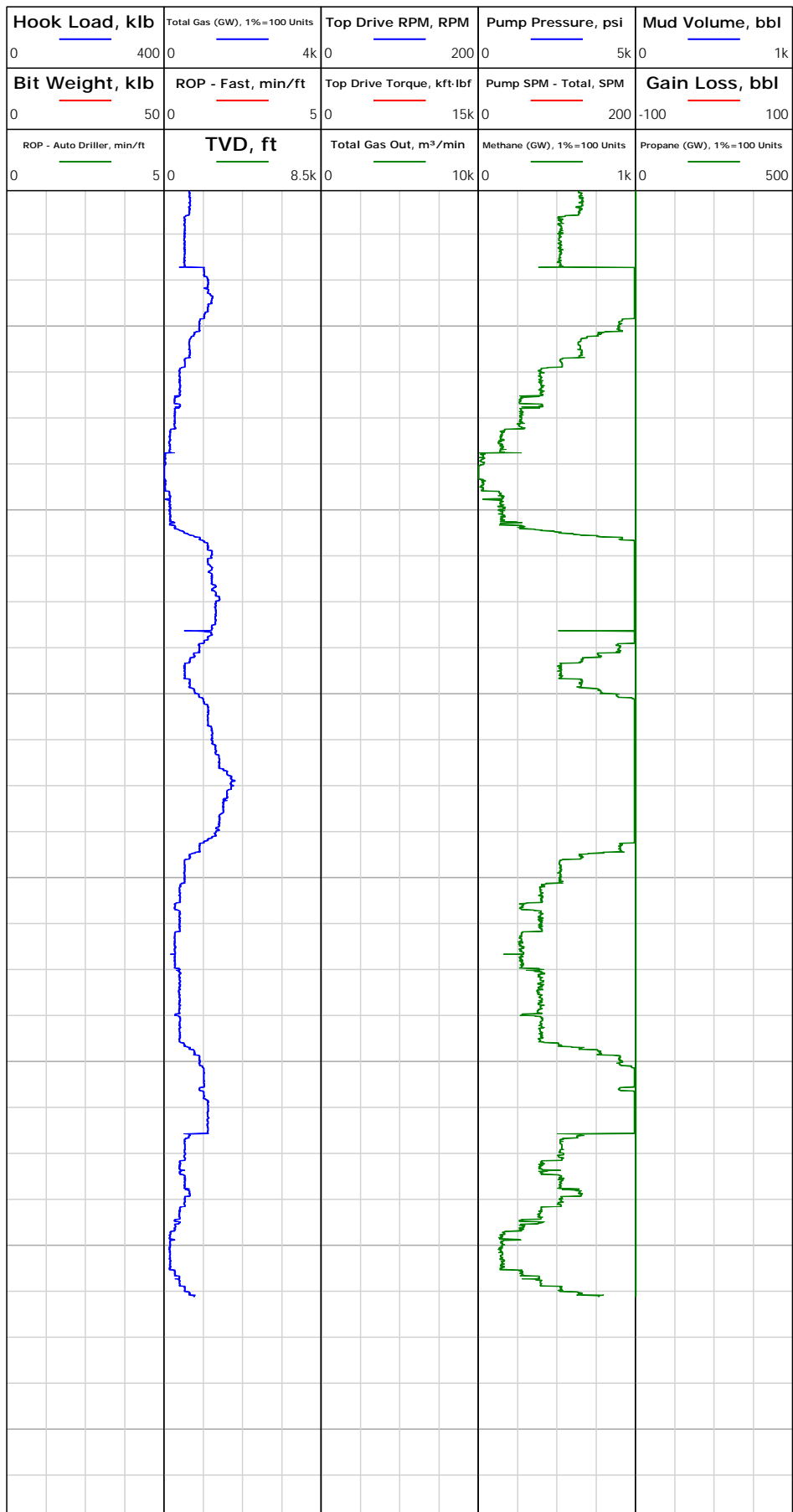
Operator: Laramie Energy
Contractor: Helmerich & Payne Drlg Co

Well Name: Gunderson BCU 20-08E
Rig: 522

Location:

Depth in ft (1:200)

Notes





Electronic Drilling Recorder

Operator: Laramie Energy
Contractor: Helmerich & Payne Drlg Co

Well Name: Gunderson BCU 20-08E
Rig: 522

Location:

Depth in ft (1:200)

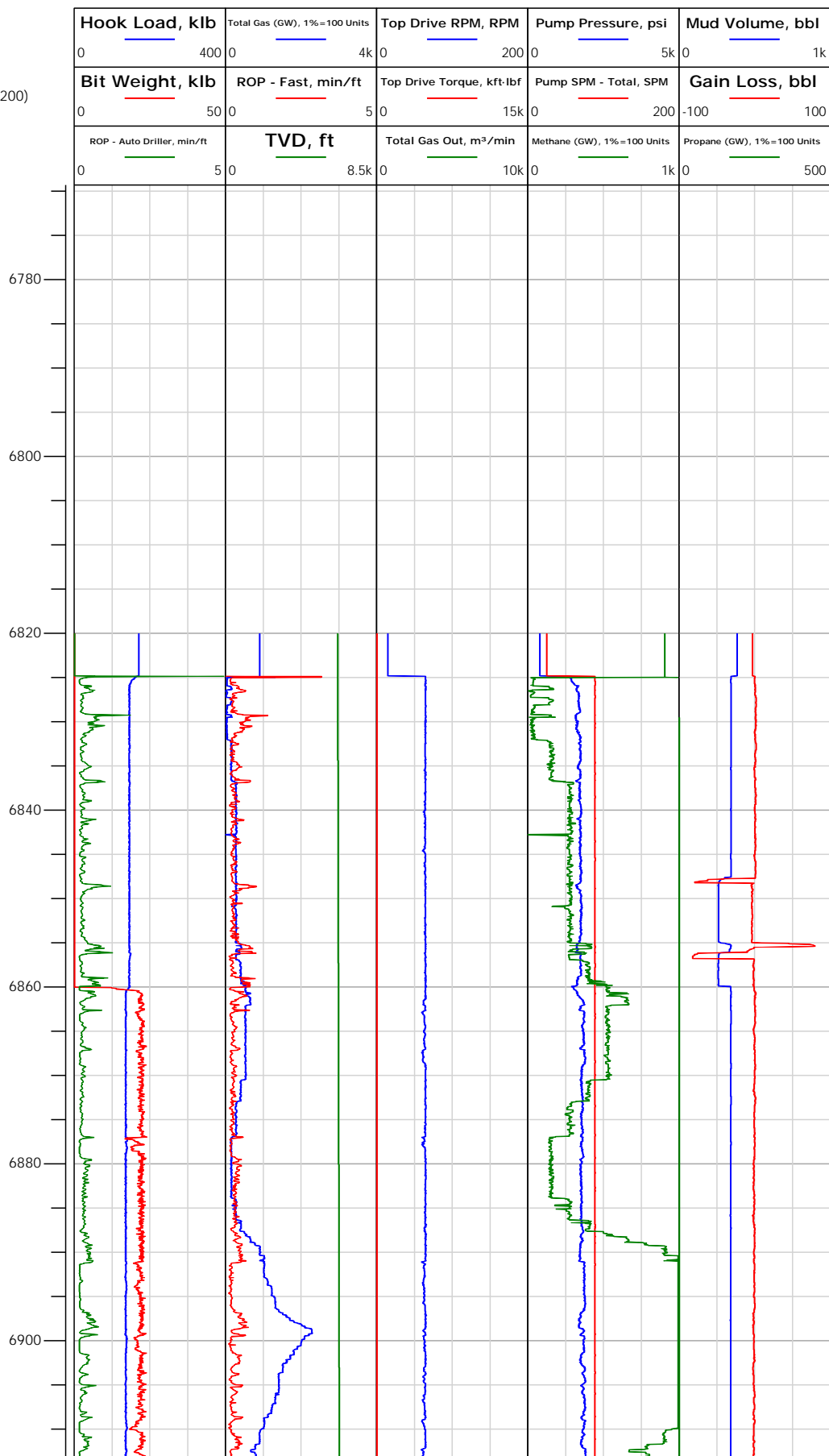
Notes

Jul 18, 2017
16:33

16:40

16:46

16:52



6820.00: Rig Floor set Bit
Position from 6820.00 ft to
6825.00 ft
6820.00: Rig Floor set Hole
Depth from 6820.00 ft to
6825.00 ft
6825.00: Rig Floor set Bit
Position from 6824.48 ft to
6820.00 ft
6825.00: Rig Floor set Hole
Depth from 6825.00 ft to
6824.84 ft

6859.00: Deviation Survey
6859.00 ft, Deviation 0.4
deg, Direction 99.6 deg



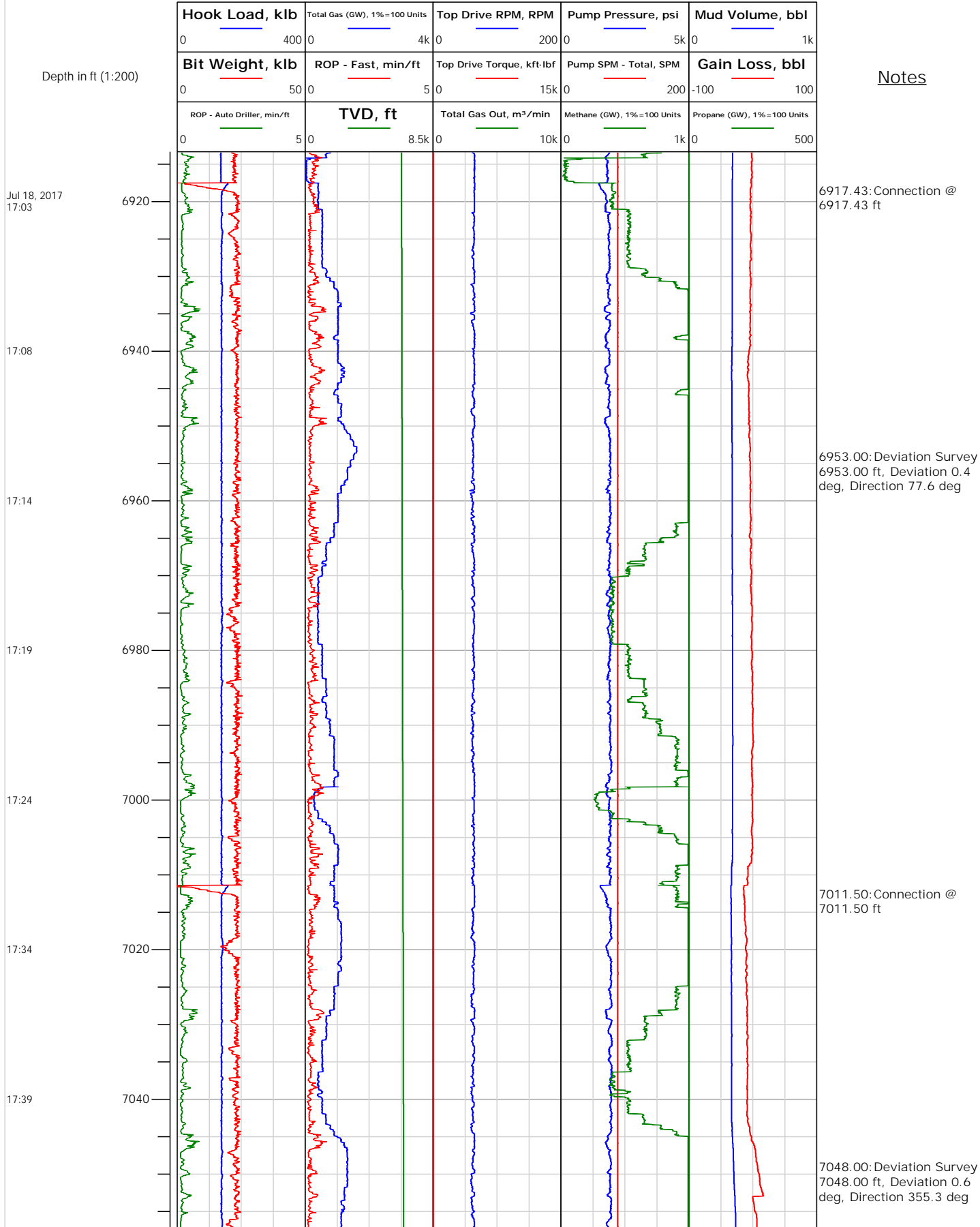
Electronic Drilling Recorder

Operator: Laramie Energy
Contractor: Helmerich & Payne Drlg Co

Well Name: Gunderson BCU 20-08E
Rig: 522

Location:

Notes





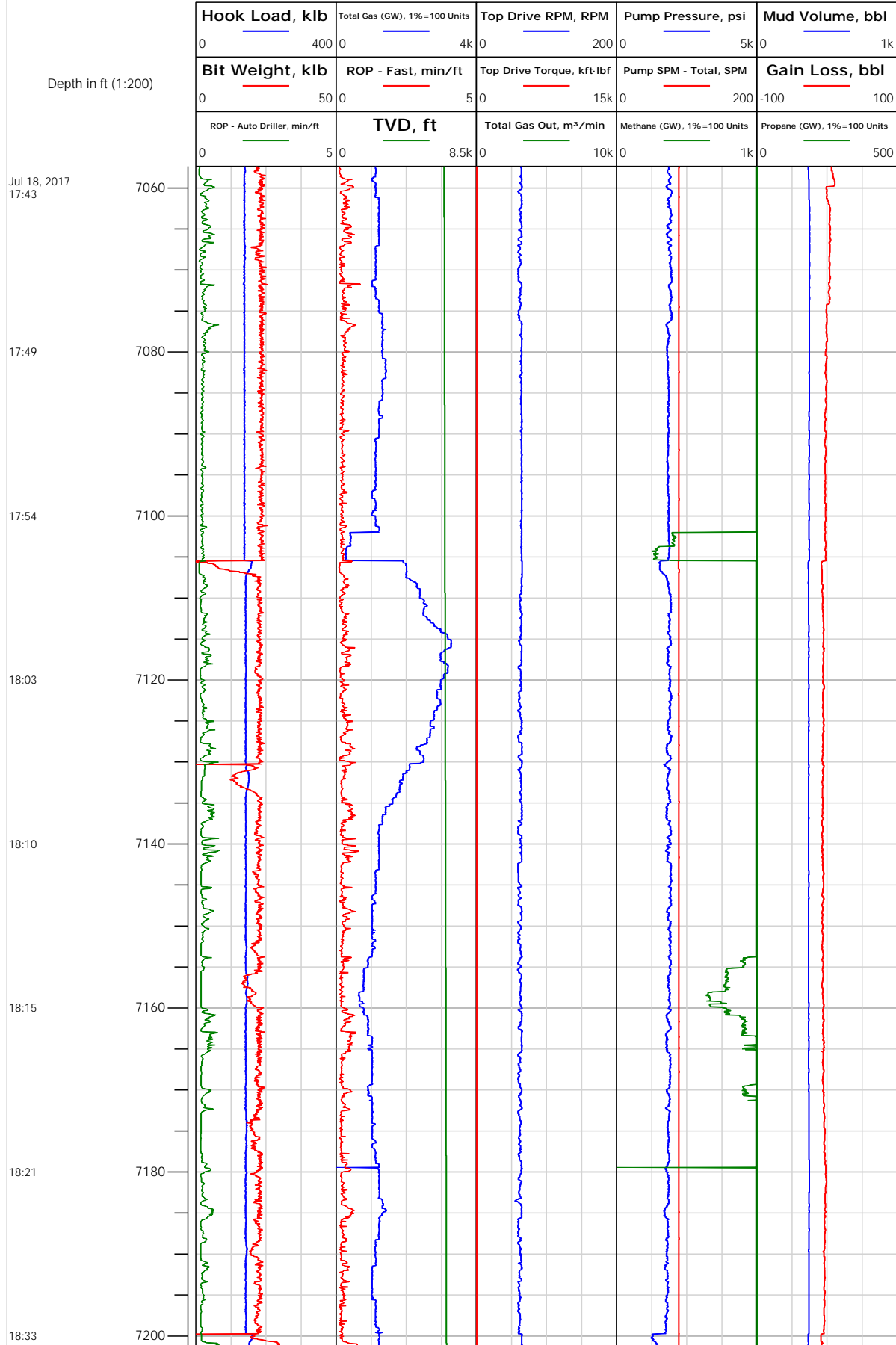
Electronic Drilling Recorder

Operator: Laramie Energy
Contractor: Helmerich & Payne Drlg Co

Well Name: Gunderson BCU 20-08E
Rig: 522

Location:

Notes





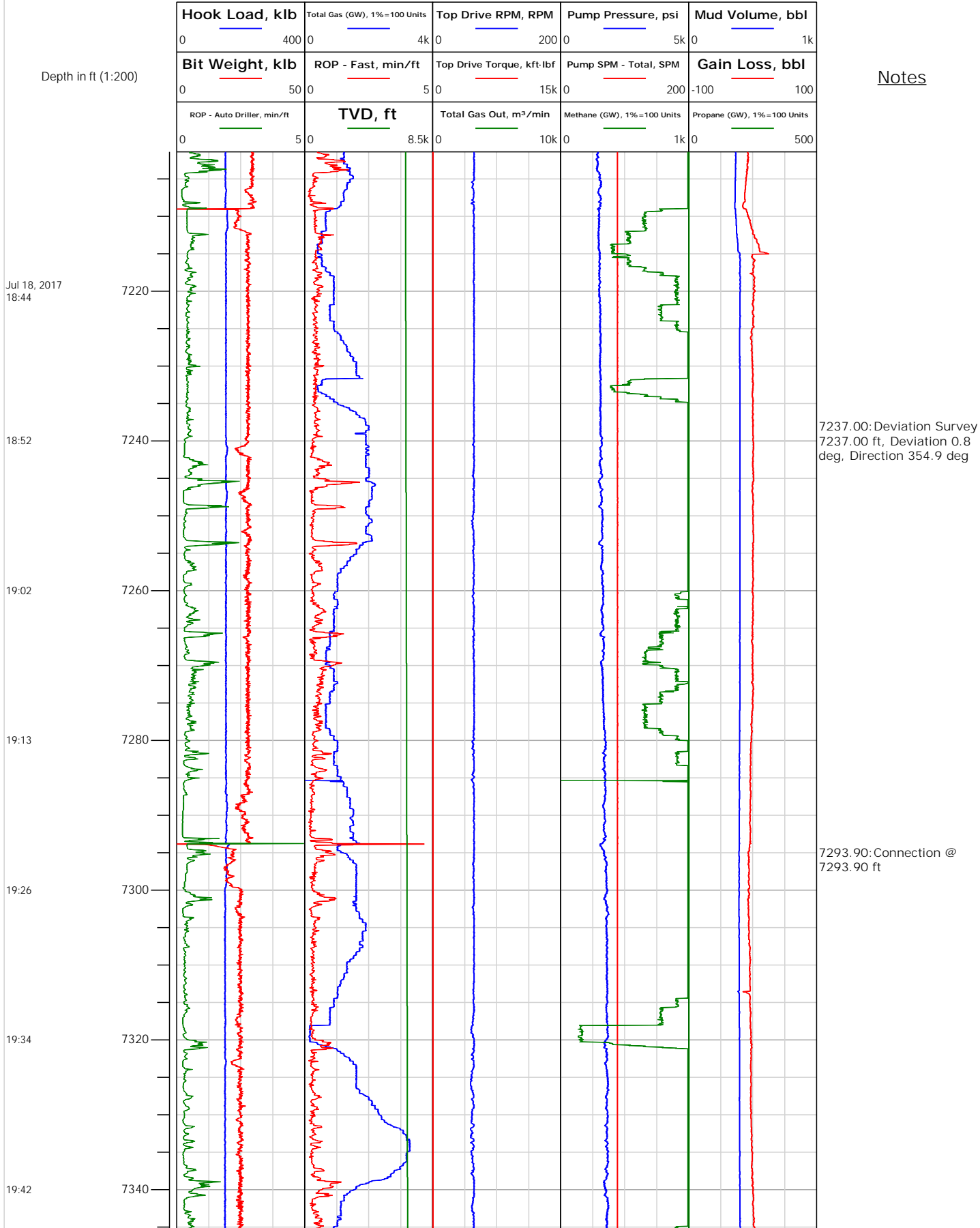
Electronic Drilling Recorder

Operator: Laramie Energy
Contractor: Helmerich & Payne Drlg Co

Well Name: Gunderson BCU 20-08E
Rig: 522

Location:

Notes





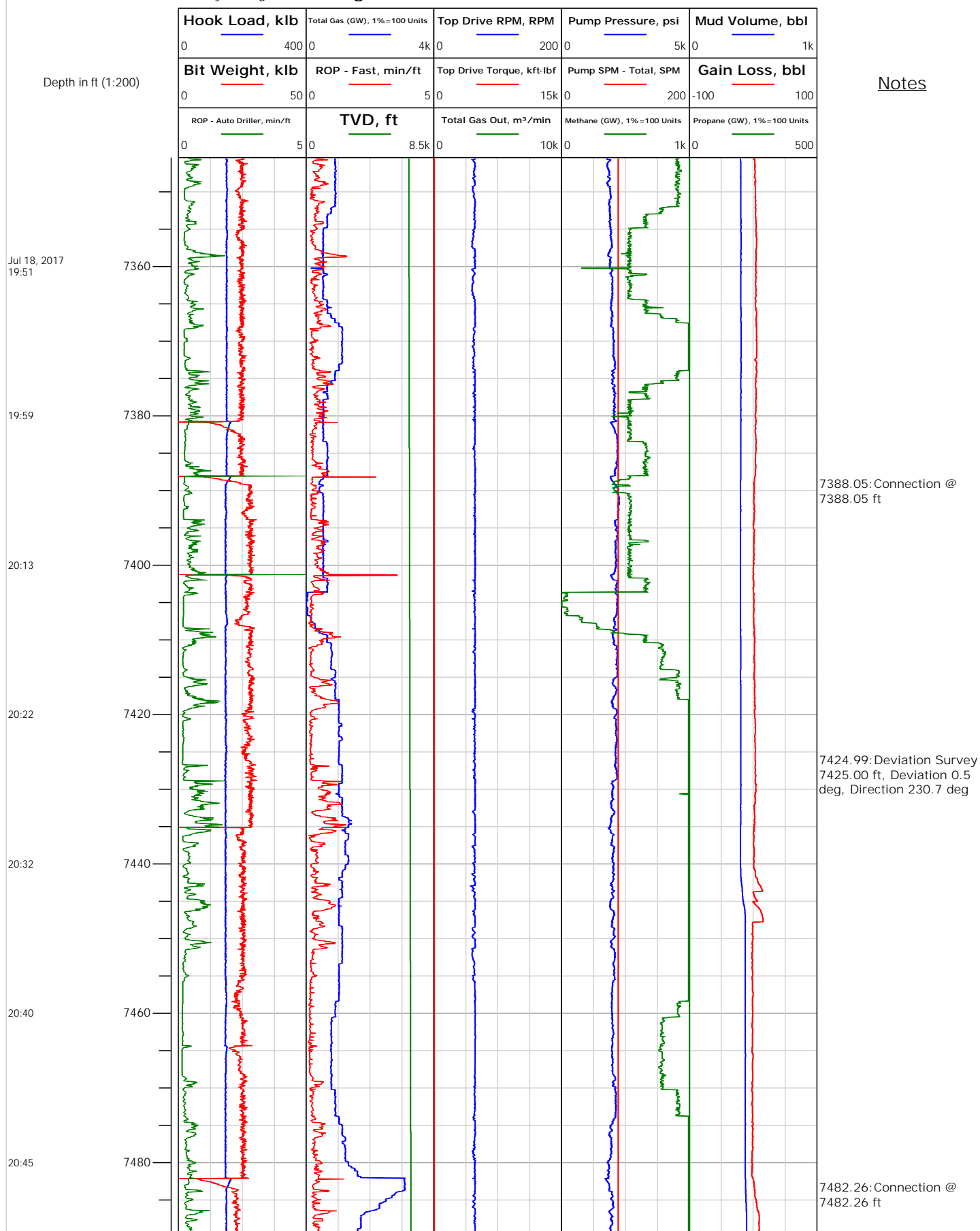
Electronic Drilling Recorder

Operator: Laramie Energy
Contractor: Helmerich & Payne Drlg Co

Well Name: Gunderson BCU 20-08E
Rig: 522

Location:

Notes





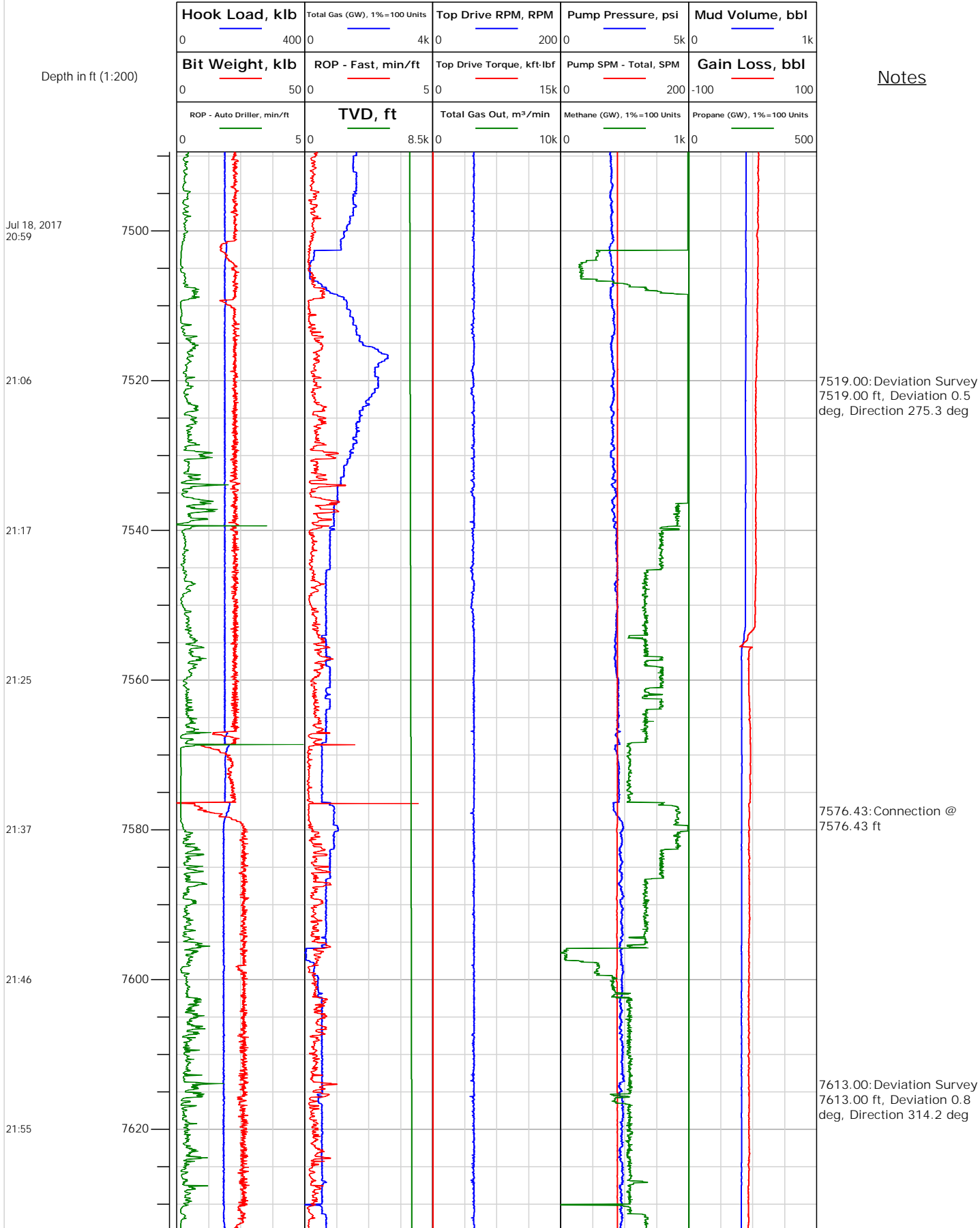
Electronic Drilling Recorder

Operator: Laramie Energy
Contractor: Helmerich & Payne Drlg Co

Well Name: Gunderson BCU 20-08E
Rig: 522

Location:

Notes





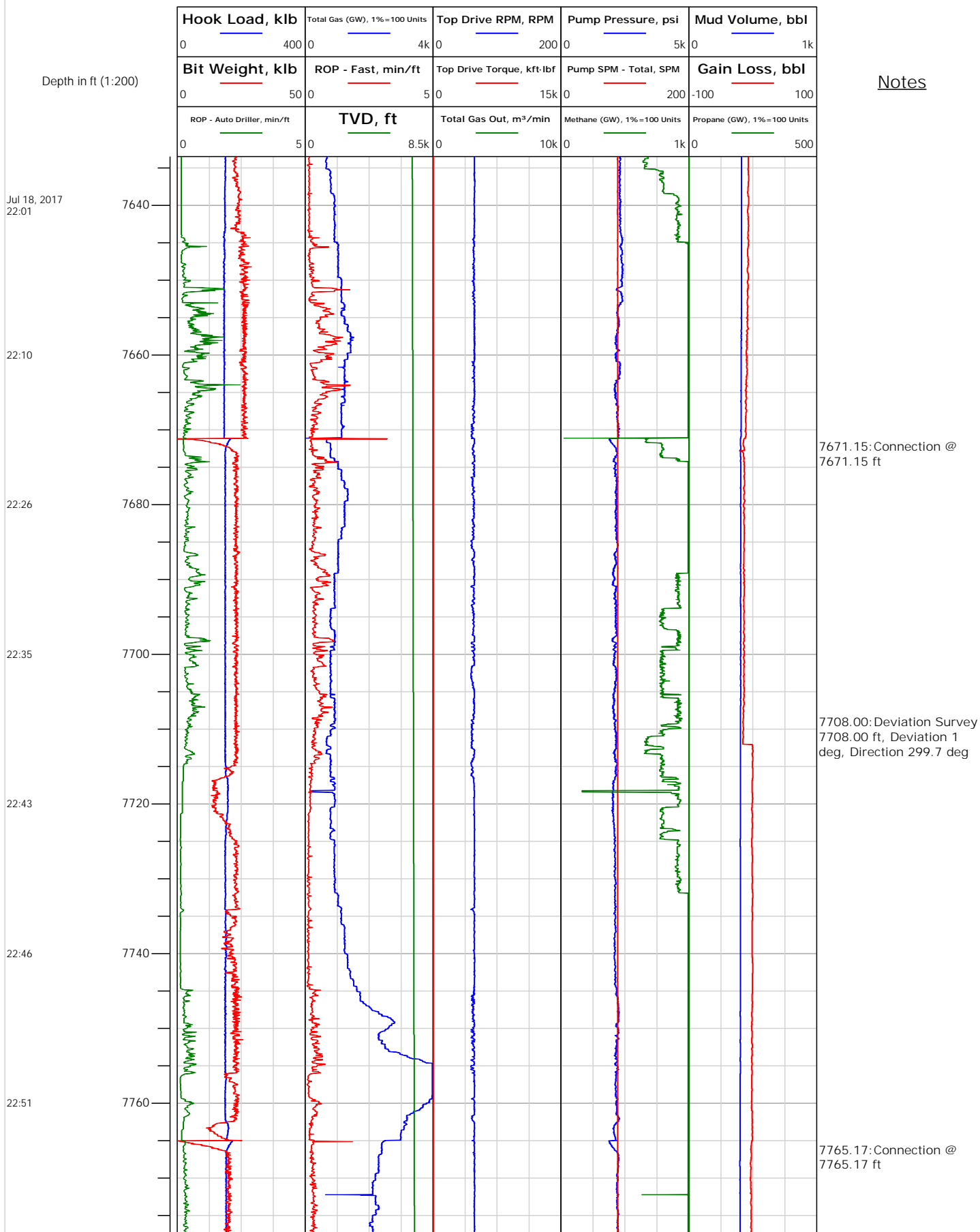
Electronic Drilling Recorder

Operator: Laramie Energy
Contractor: Helmerich & Payne Drlg Co

Well Name: Gunderson BCU 20-08E
Rig: 522

Location:

Notes





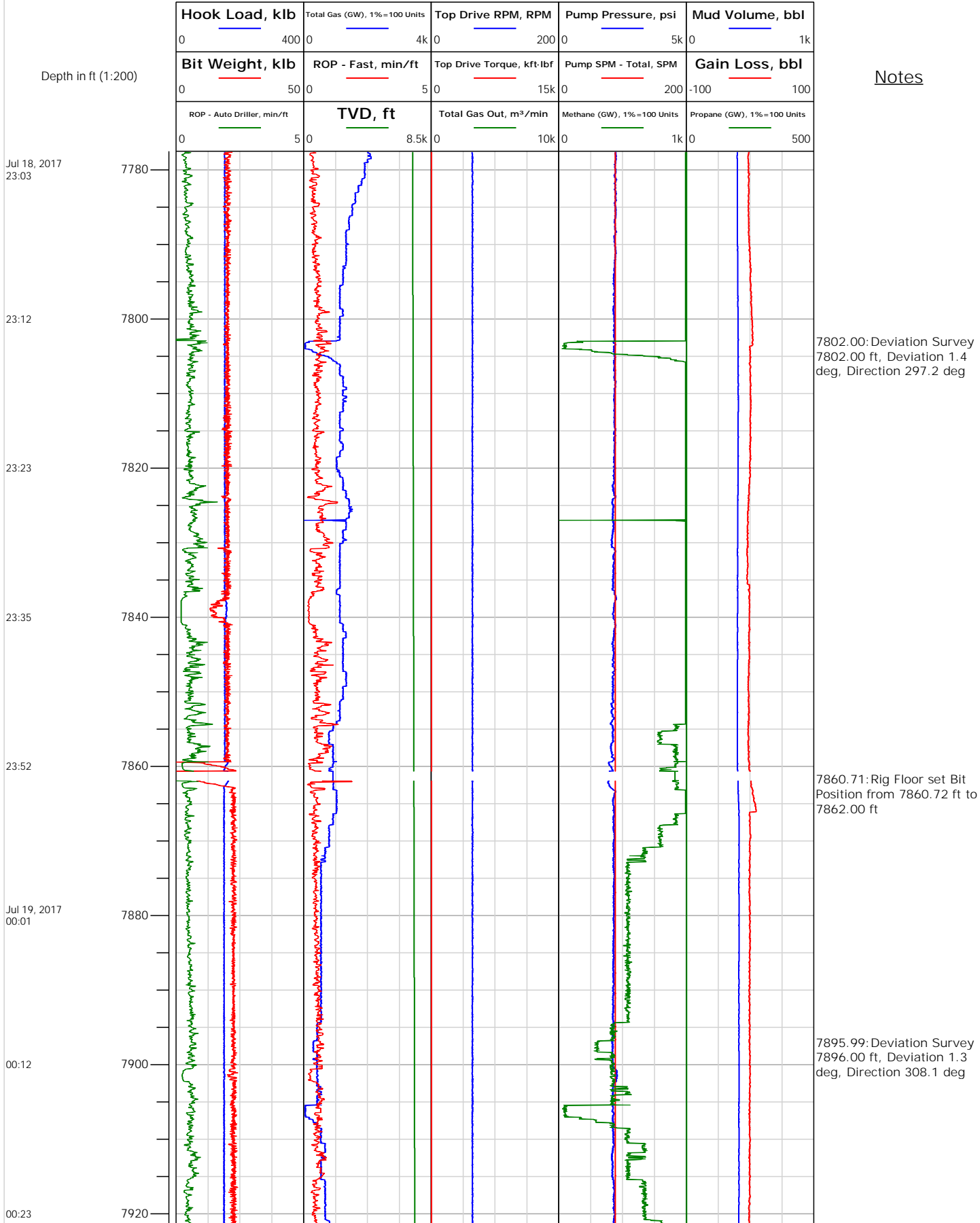
Electronic Drilling Recorder

Operator: Laramie Energy
Contractor: Helmerich & Payne Drlg Co

Well Name: Gunderson BCU 20-08E
Rig: 522

Location:

Notes





Electronic Drilling Recorder

Operator: Laramie Energy
Contractor: Helmerich & Payne Drlg Co

Well Name: Gunderson BCU 20-08E
Rig: 522

Location:

Notes

