

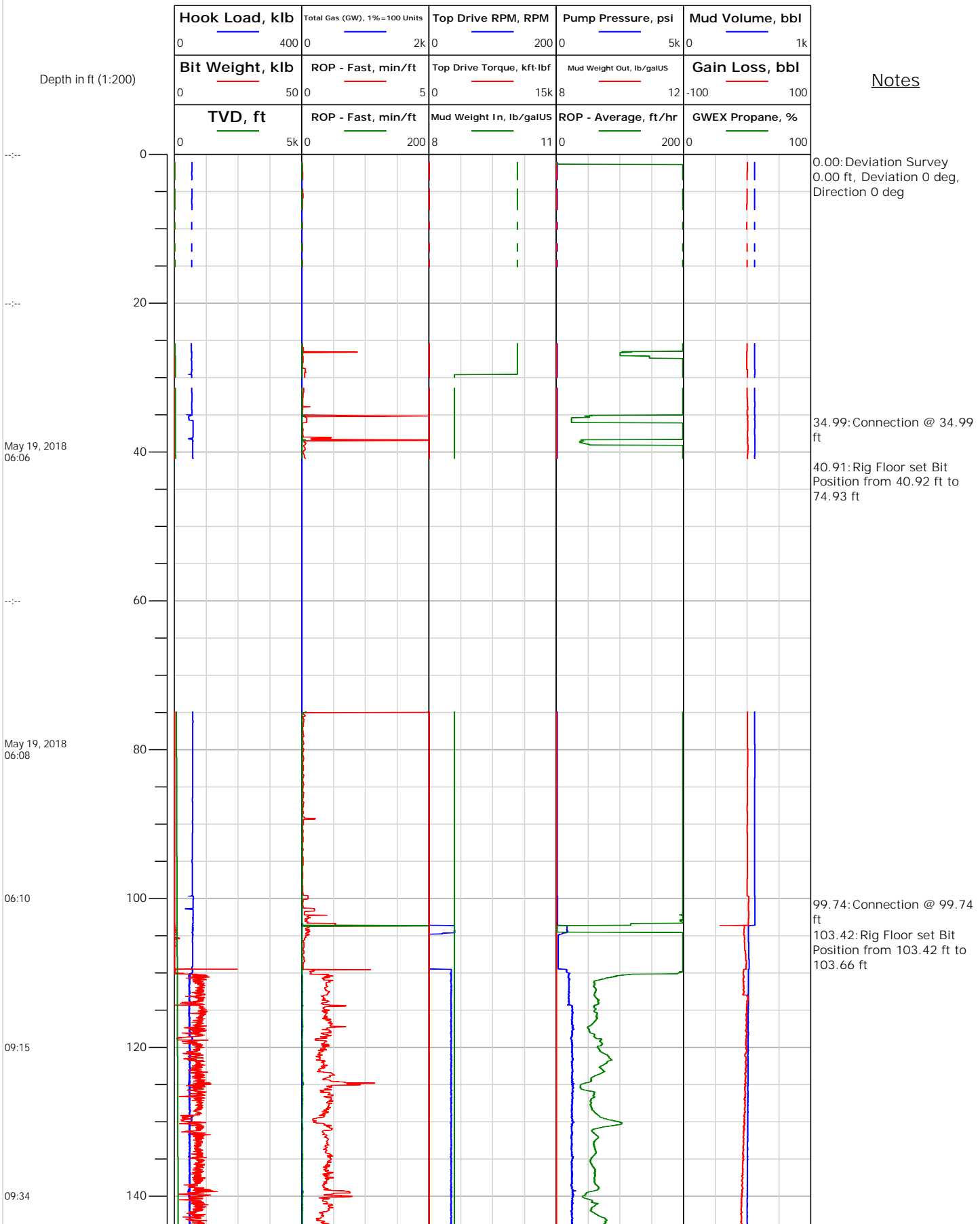


Electronic Drilling Recorder

Operator: Laramie Energy
 Contractor: Helmerich & Payne Drlg Co

Well Name: CC 0697-03-12W
 Rig: 522

Location:



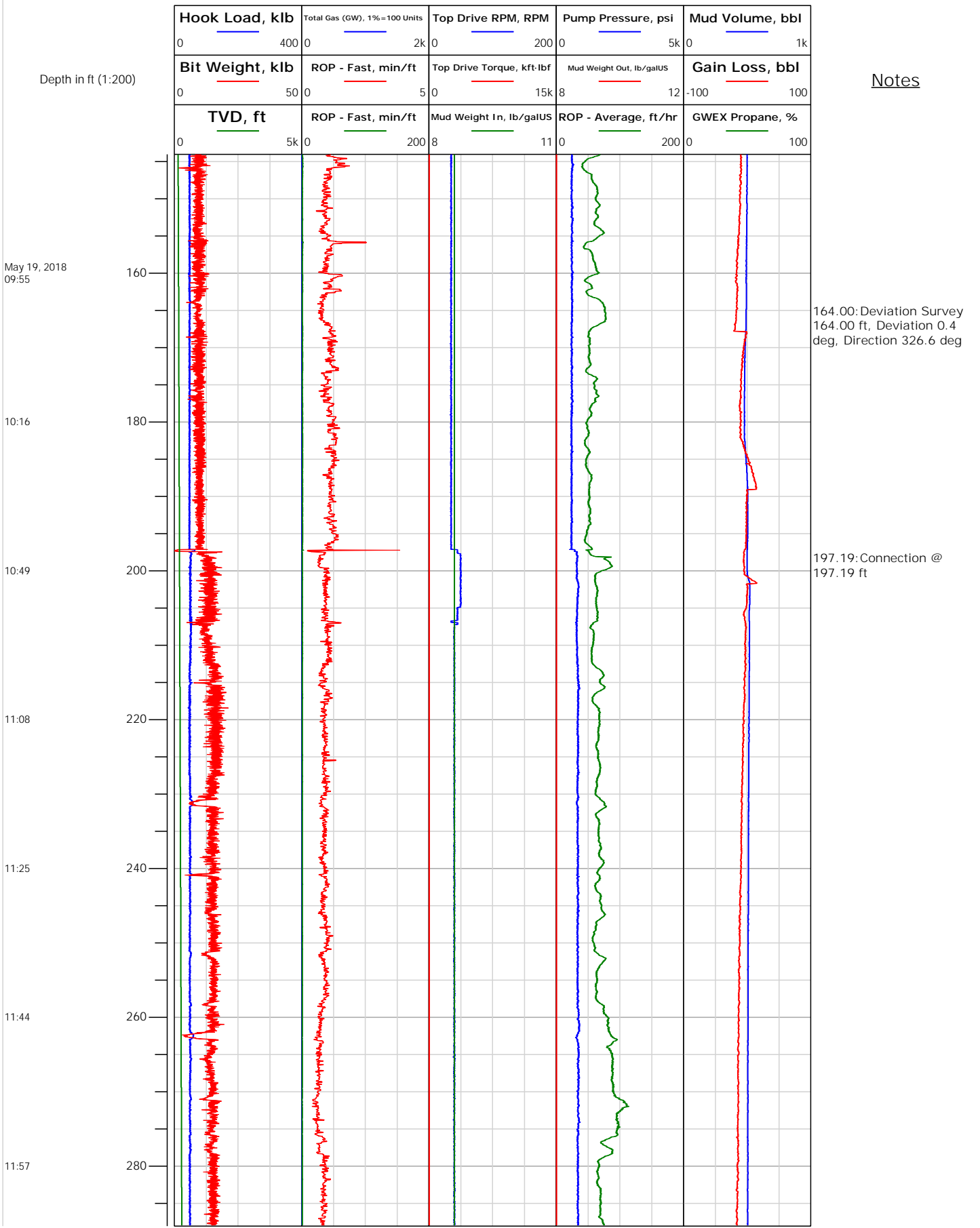


Electronic Drilling Recorder

Operator: Laramie Energy
 Contractor: Helmerich & Payne Drlg Co

Well Name: CC 0697-03-12W
 Rig: 522

Location:



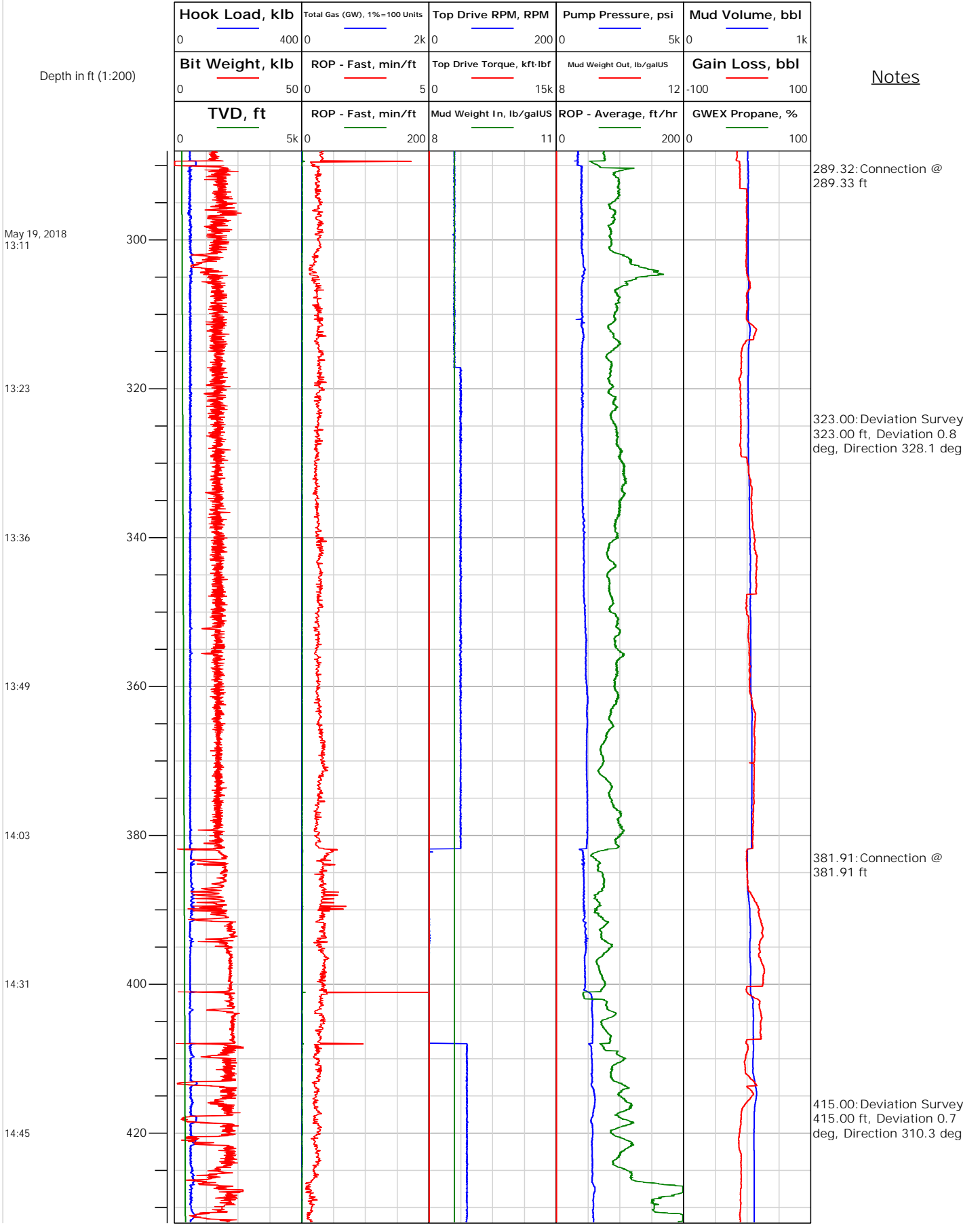


Electronic Drilling Recorder

Operator: Laramie Energy
 Contractor: Helmerich & Payne Drlg Co

Well Name: CC 0697-03-12W
 Rig: 522

Location:



May 19, 2018
13:11

13:23

13:36

13:49

14:03

14:31

14:45

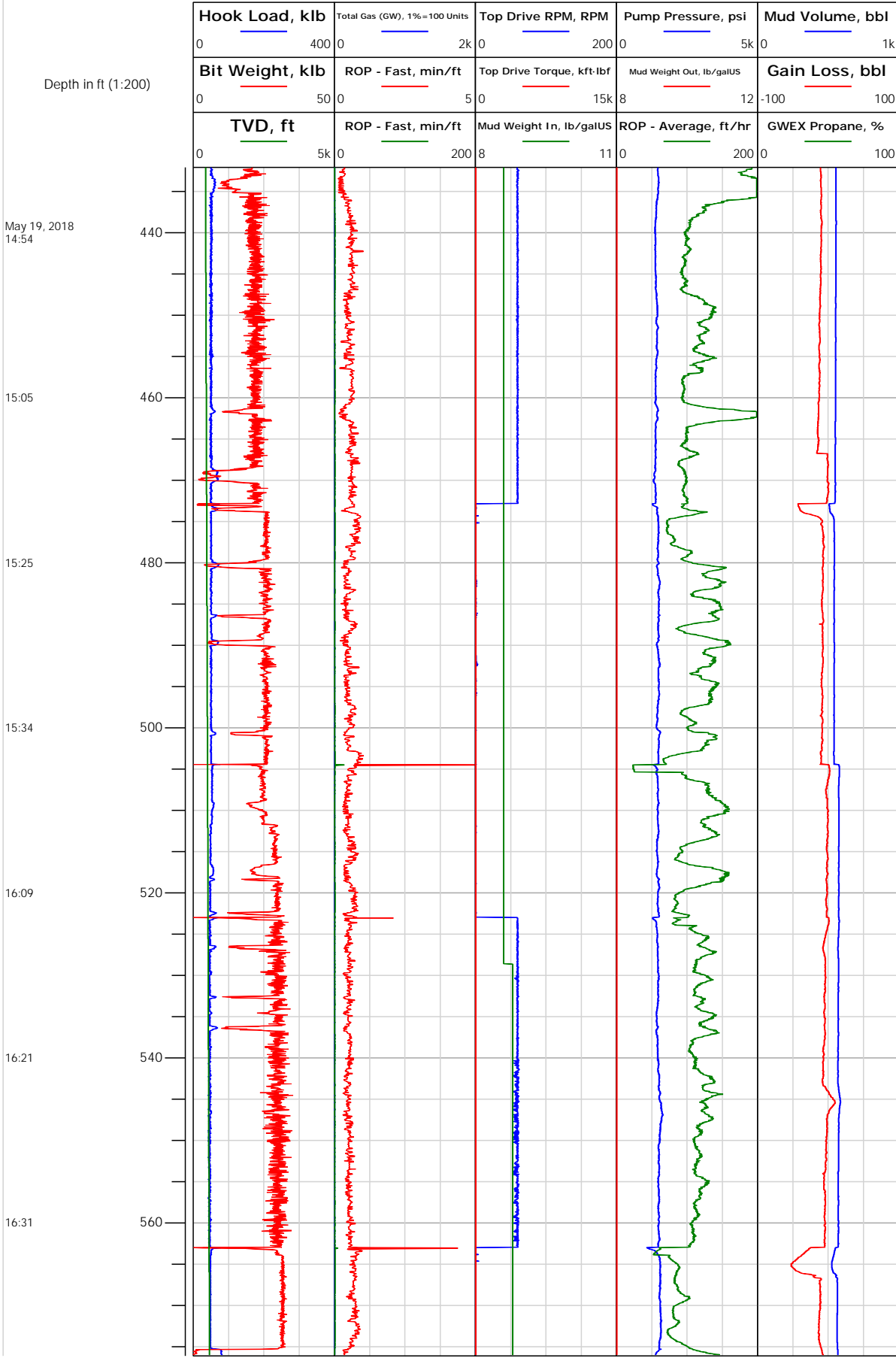


Electronic Drilling Recorder

Operator: Laramie Energy
Contractor: Helmerich & Payne Drlg Co

Well Name: CC 0697-03-12W
Rig: 522

Location:



Notes

472.85: Connection @
472.85 ft

505.00: Deviation Survey
505.00 ft, Deviation 1.5
deg, Direction 266.1 deg

563.09: Connection @
563.10 ft

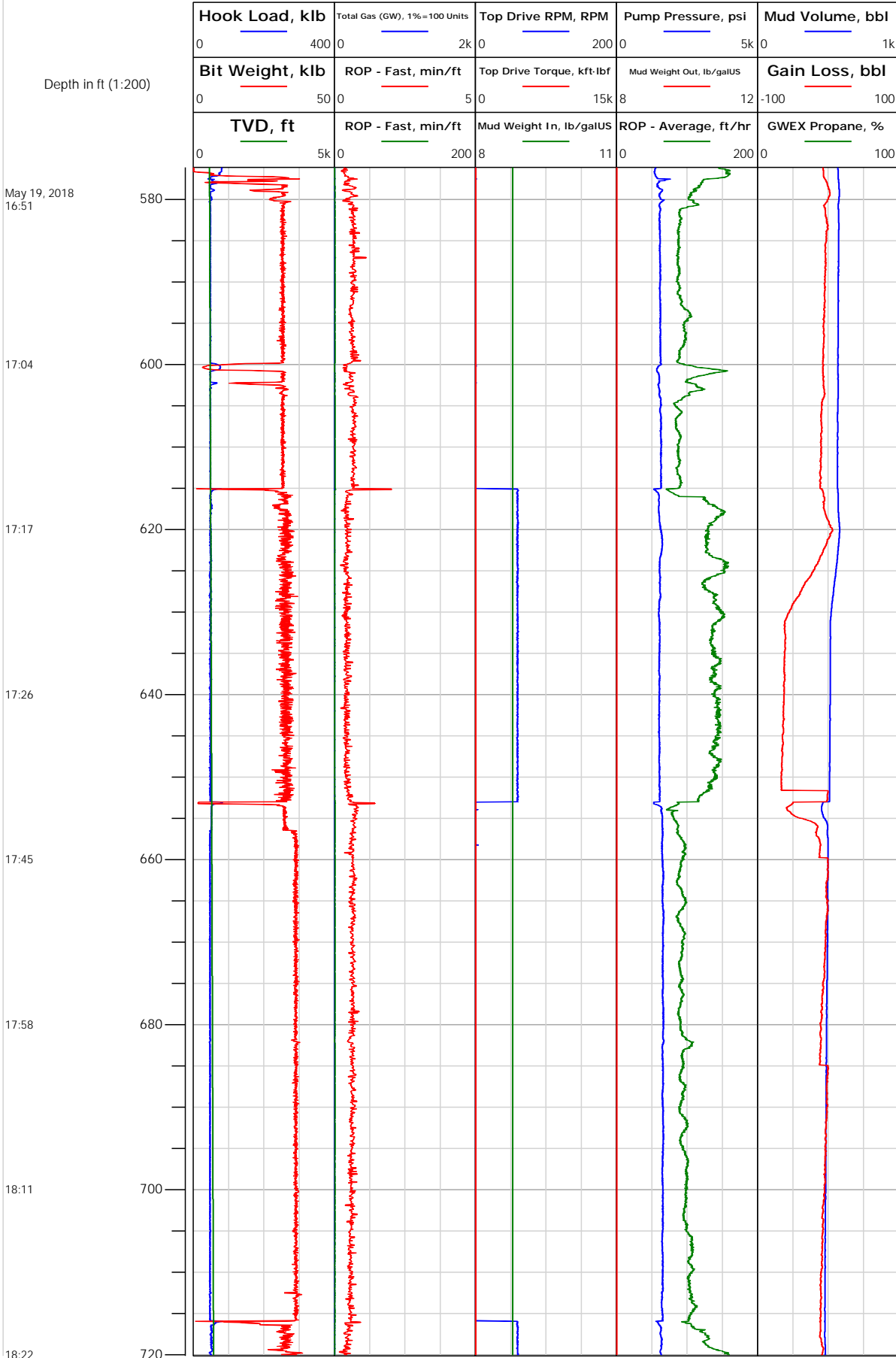


Electronic Drilling Recorder

Operator: Laramie Energy
 Contractor: Helmerich & Payne Drlg Co

Well Name: CC 0697-03-12W
 Rig: 522

Location:



Notes

596.00: Deviation Survey
 596.00 ft, Deviation 3.4 deg, Direction 262.7 deg

686.00: Deviation Survey
 686.00 ft, Deviation 5.4 deg, Direction 249.7 deg

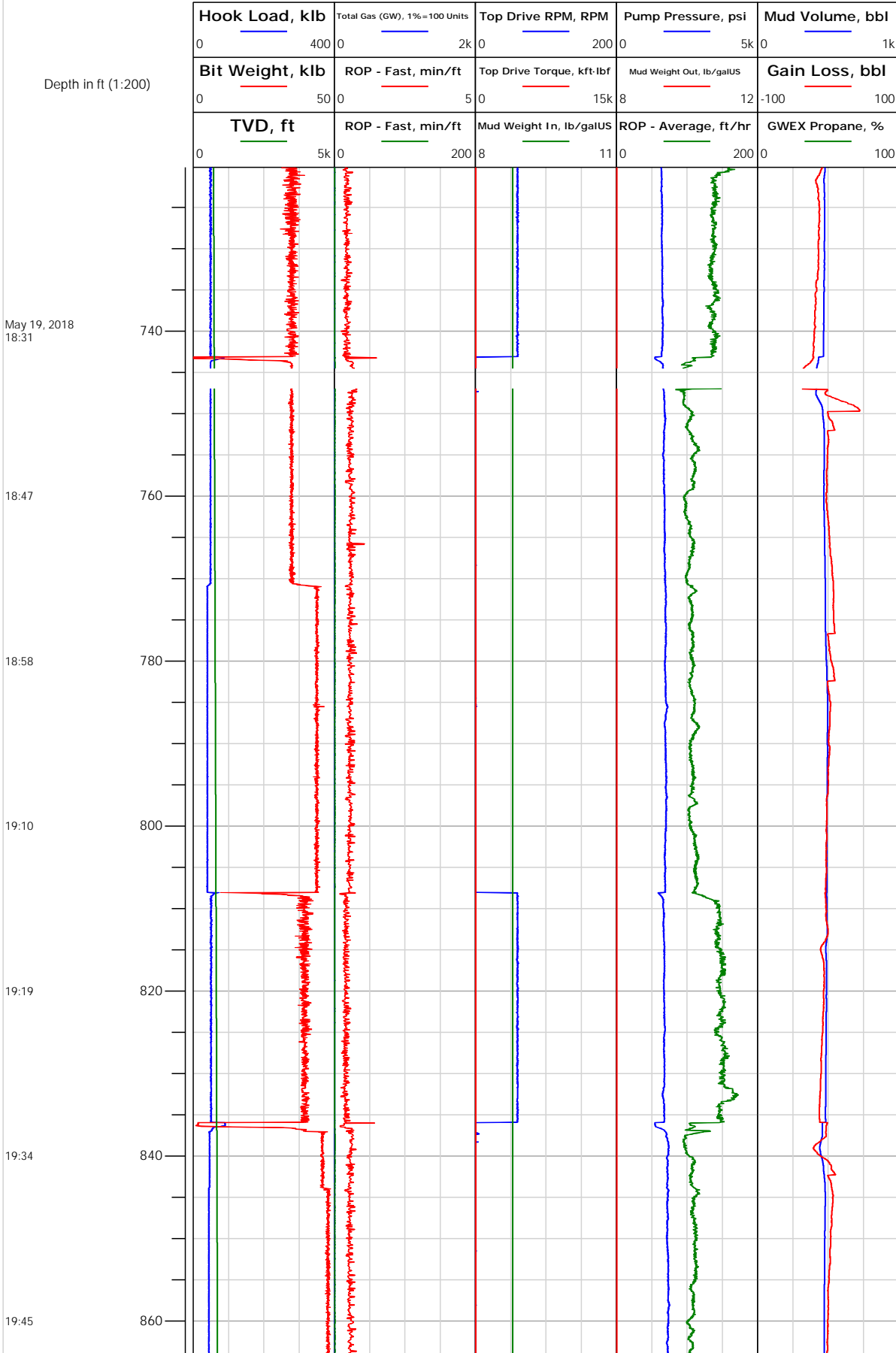


Electronic Drilling Recorder

Operator: Laramie Energy
 Contractor: Helmerich & Payne Drlg Co

Well Name: CC 0697-03-12W
 Rig: 522

Location:



Notes

744.50: Rig Floor set Hole
 Depth from 743.14 ft to
 746.94 ft

777.00: Deviation Survey
 777.00 ft, Deviation 7.1
 deg, Direction 246.4 deg

836.07: Connection @
 836.07 ft

May 19, 2018
 18:31

18:47

18:58

19:10

19:19

19:34

19:45

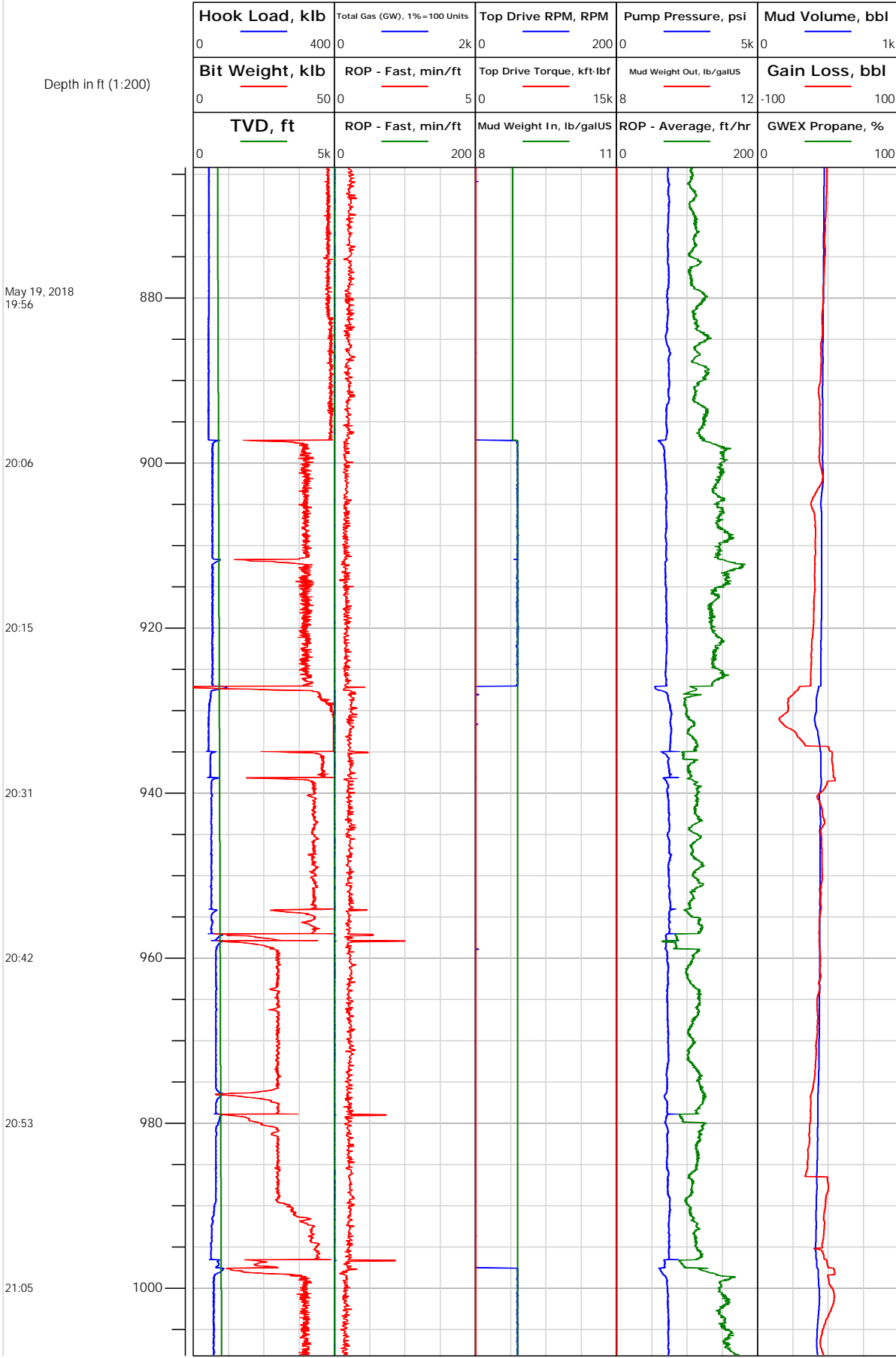


Electronic Drilling Recorder

Operator: Laramie Energy
 Contractor: Helmerich & Payne Drlg Co

Well Name: CC 0697-03-12W
 Rig: 522

Location:



Notes

868.99: Deviation Survey
 869.00 ft, Deviation 7.7 deg, Direction 252.1 deg

927.11: Connection @
 927.11 ft

959.00: Deviation Survey
 959.00 ft, Deviation 8.5 deg, Direction 257.6 deg

May 19, 2018
 19:56

20:06

20:15

20:31

20:42

20:53

21:05

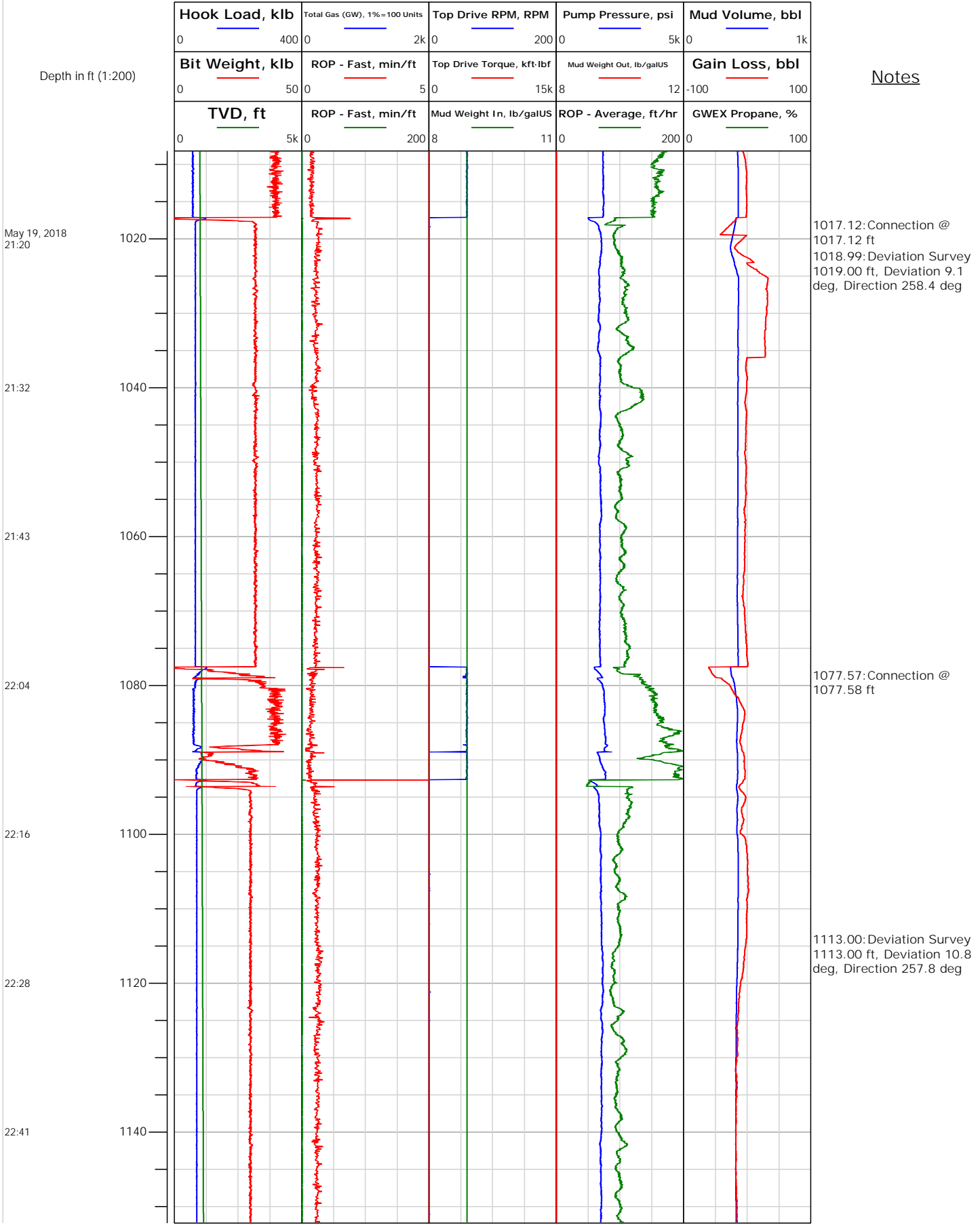


Electronic Drilling Recorder

Operator: Laramie Energy
 Contractor: Helmerich & Payne Drlg Co

Well Name: CC 0697-03-12W
 Rig: 522

Location:



Notes

1017.12: Connection @ 1017.12 ft
 1018.99: Deviation Survey
 1019.00 ft, Deviation 9.1 deg, Direction 258.4 deg

1077.57: Connection @ 1077.58 ft

1113.00: Deviation Survey
 1113.00 ft, Deviation 10.8 deg, Direction 257.8 deg

May 19, 2018
 21:20

21:32

21:43

22:04

22:16

22:28

22:41



Electronic Drilling Recorder

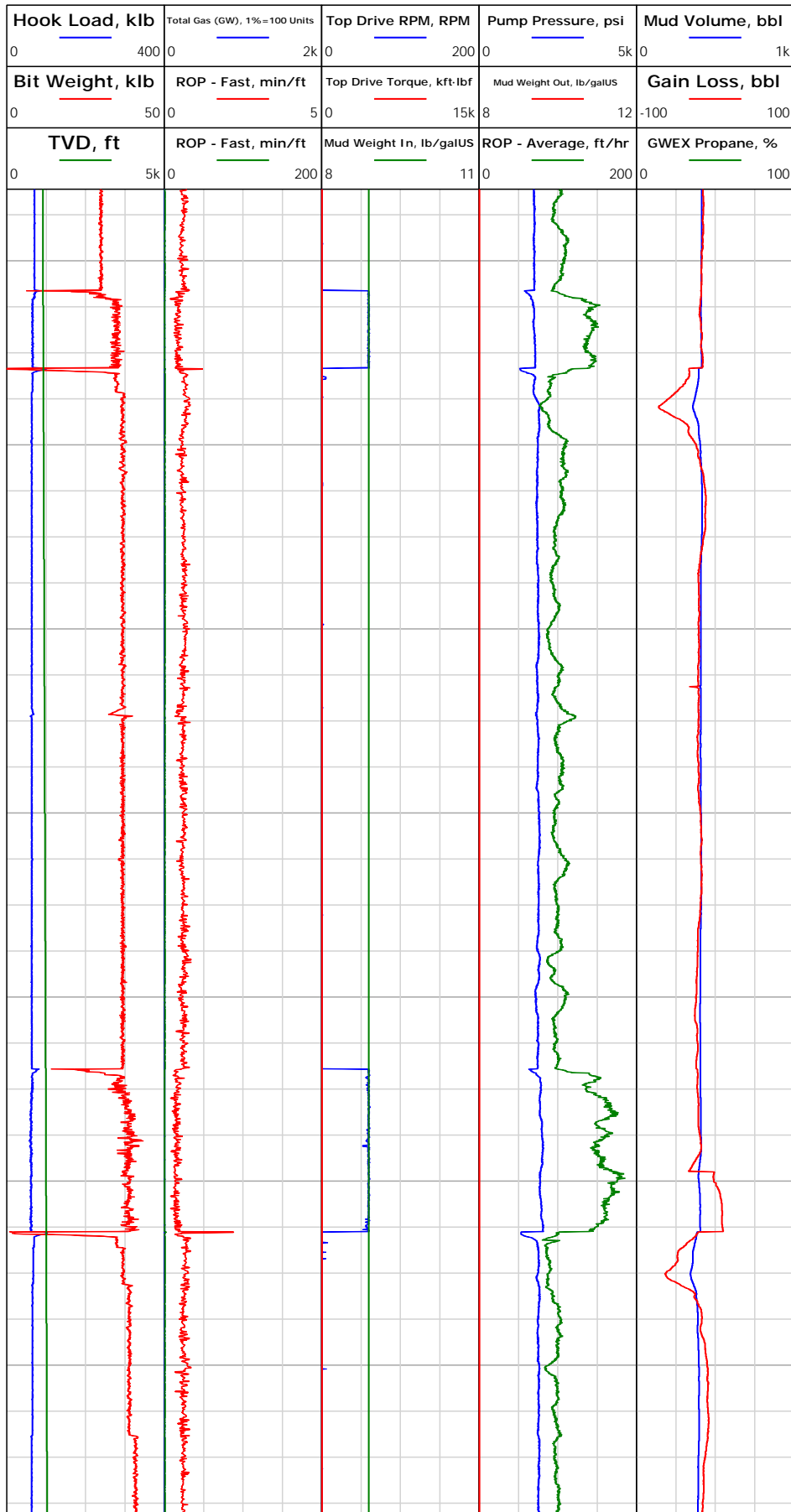
Operator: Laramie Energy
 Contractor: Helmerich & Payne Drlg Co

Well Name: CC 0697-03-12W
 Rig: 522

Location:

Depth in ft (1:200)

Notes



May 19, 2018
22:53

23:11

23:23

23:35

23:46

23:57

May 20, 2018
00:15

1171.67: Connection @
1171.67 ft

1208.00: Deviation Survey
1208.00 ft, Deviation 13.3
deg, Direction 259.1 deg

1265.63: Connection @
1265.63 ft

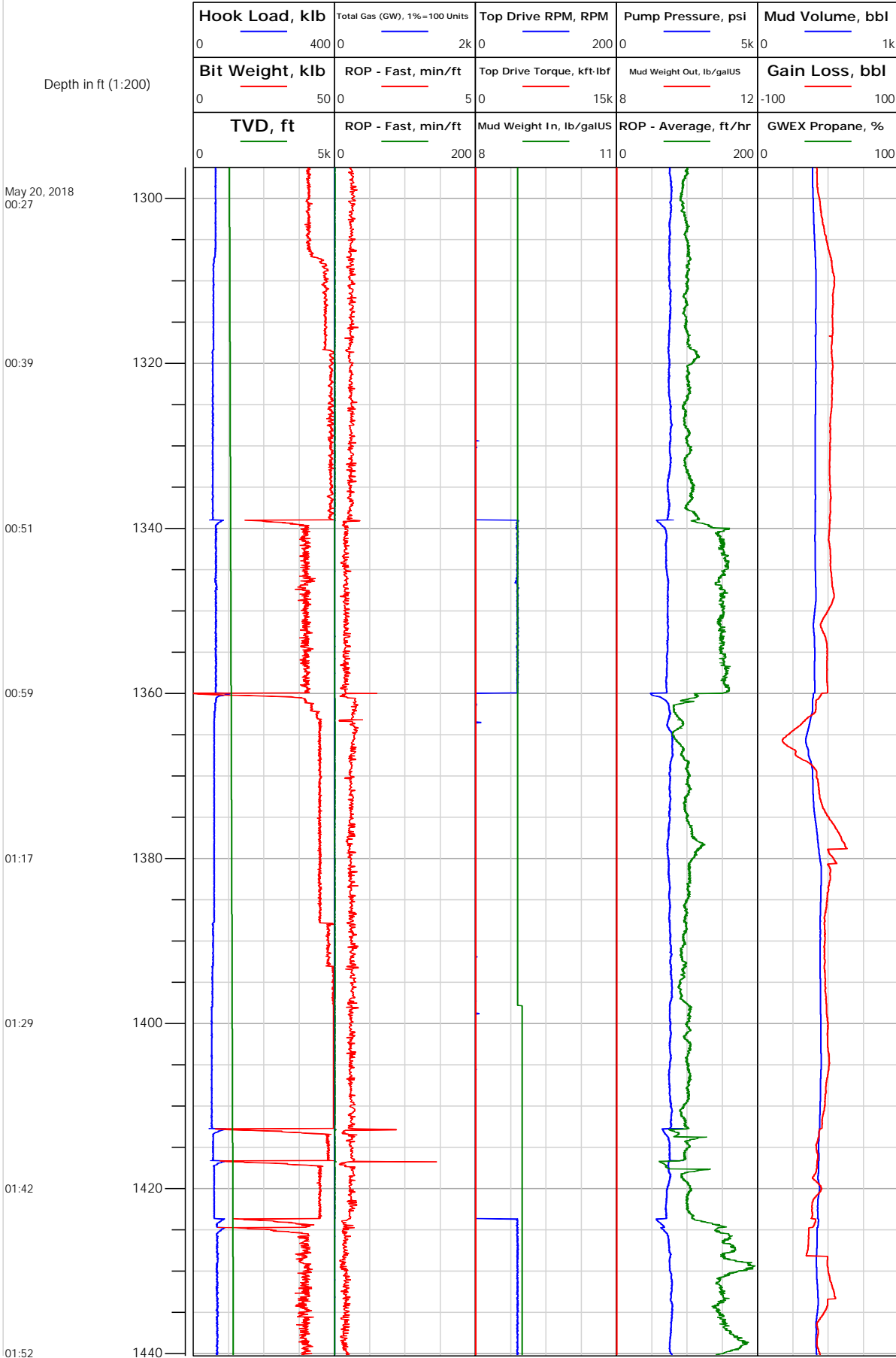


Electronic Drilling Recorder

Operator: Laramie Energy
 Contractor: Helmerich & Payne Drlg Co

Well Name: CC 0697-03-12W
 Rig: 522

Location:



Notes

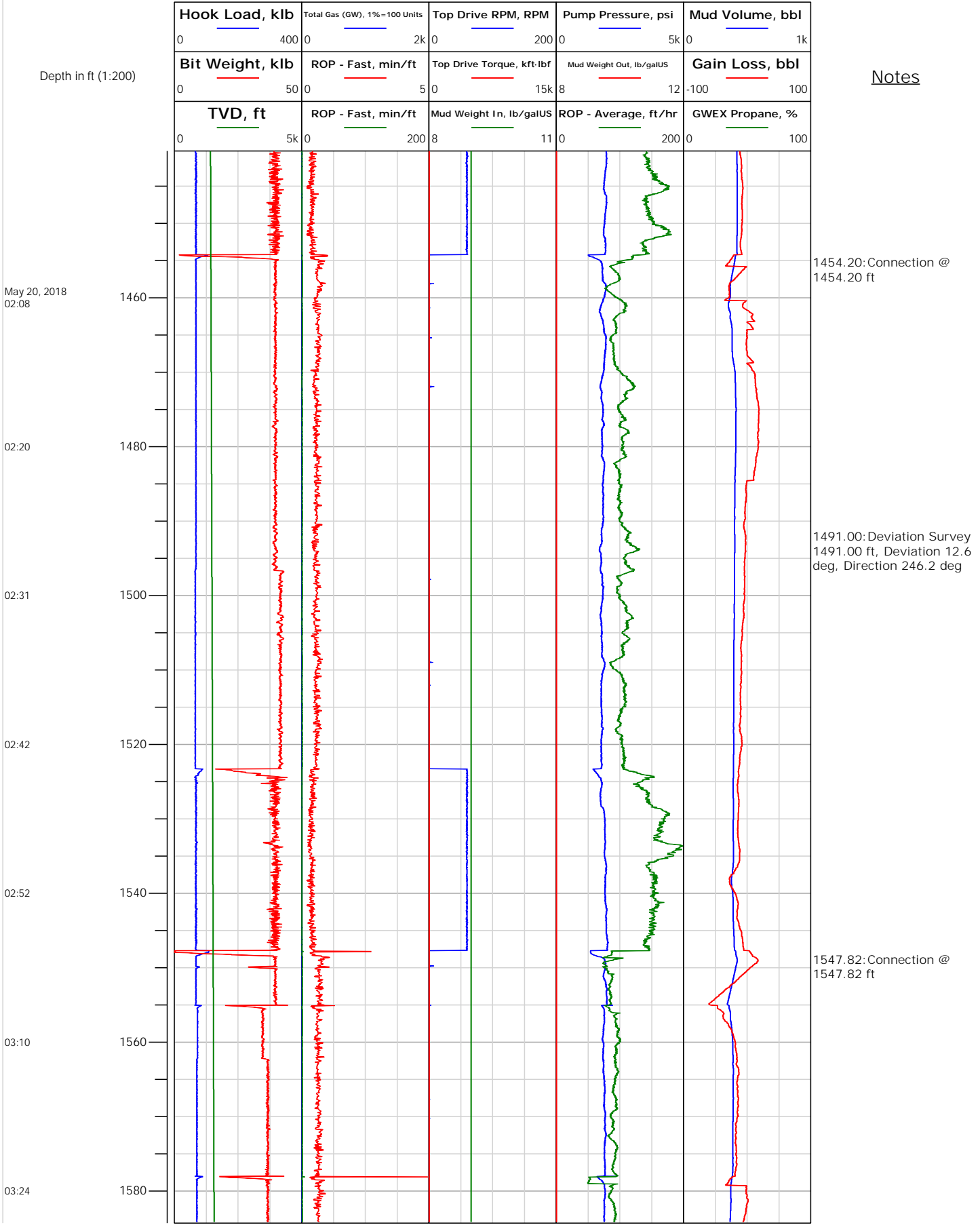


Electronic Drilling Recorder

Operator: Laramie Energy
Contractor: Helmerich & Payne Drlg Co

Well Name: CC 0697-03-12W
Rig: 522

Location:



May 20, 2018
02:08

02:20

02:31

02:42

02:52

03:10

03:24



Electronic Drilling Recorder

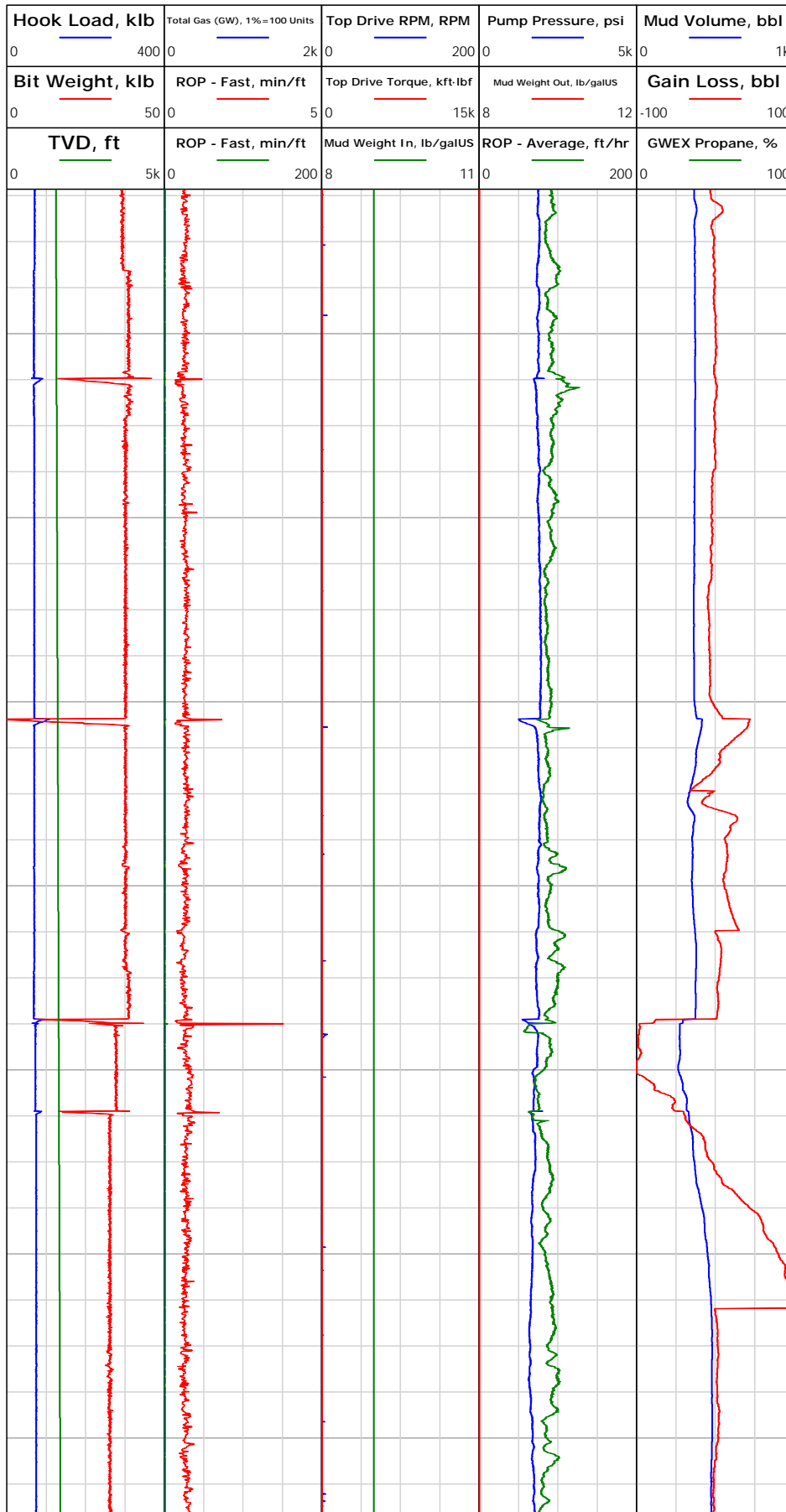
Operator: Laramie Energy
 Contractor: Helmerich & Payne Drlg Co

Well Name: CC 0697-03-12W
 Rig: 522

Location:

Depth in ft (1:200)

Notes



May 20, 2018
03:37

03:50

04:04

04:23

04:42

04:58

05:11

1600

1620

1640

1660

1680

1700

1720

1586.00: Deviation Survey
 1586.00 ft, Deviation 11.6 deg, Direction 242.8 deg

1641.91: Connection @
 1641.91 ft

1680.99: Deviation Survey
 1681.00 ft, Deviation 12.1 deg, Direction 248.4 deg

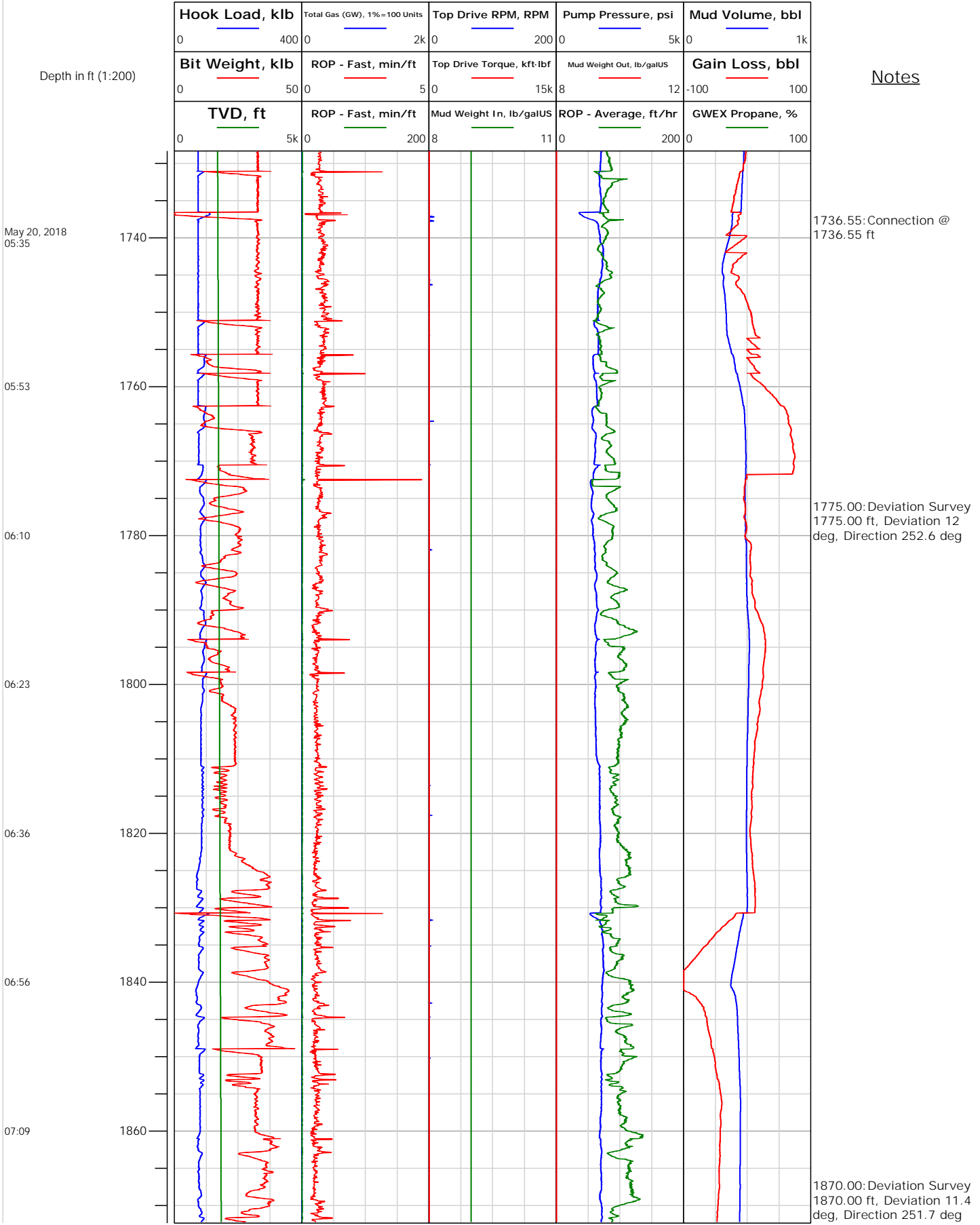


Electronic Drilling Recorder

Operator: Laramie Energy
 Contractor: Helmerich & Payne Drlg Co

Well Name: CC 0697-03-12W
 Rig: 522

Location:



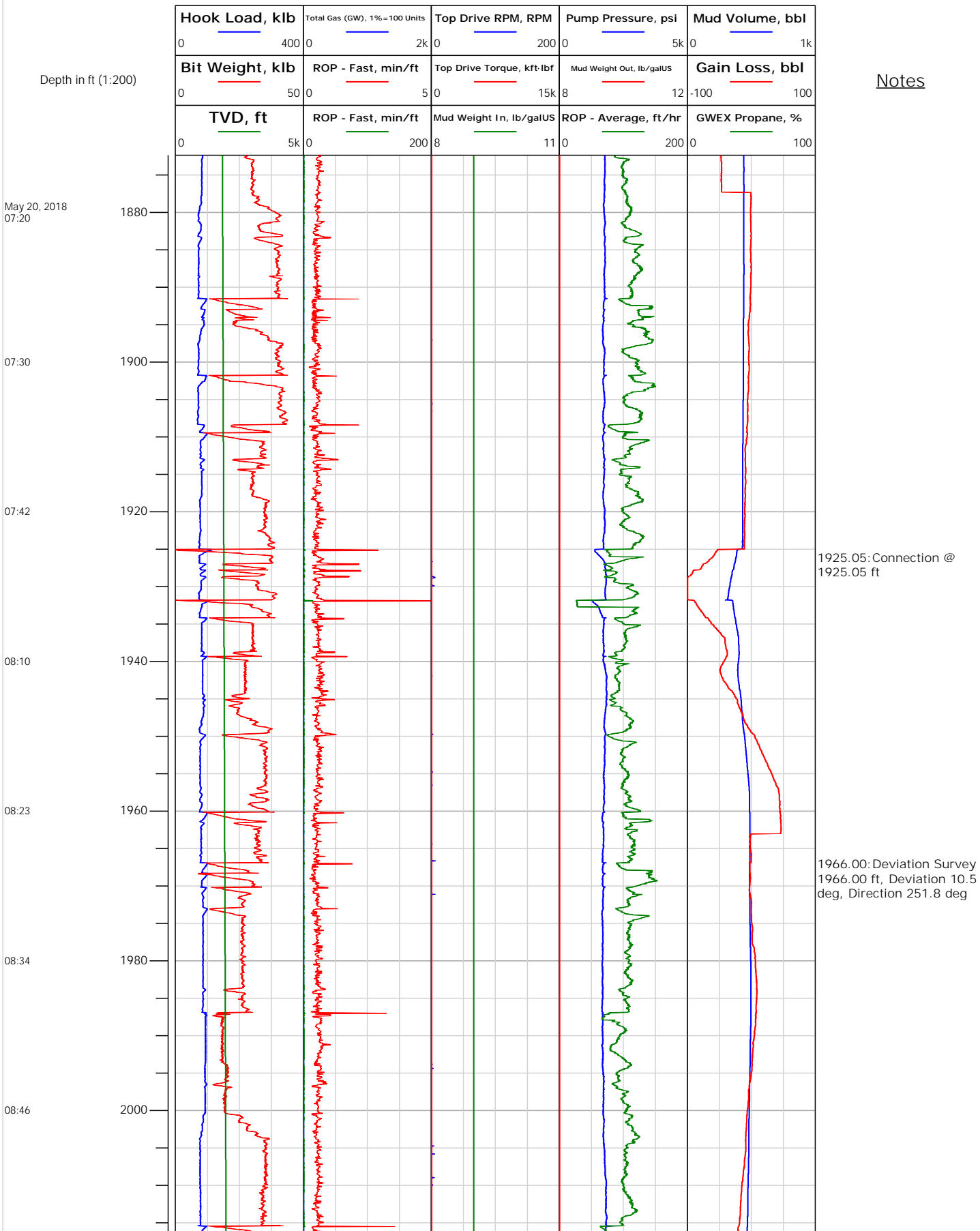


Electronic Drilling Recorder

Operator: Laramie Energy
 Contractor: Helmerich & Payne Drlg Co

Well Name: CC 0697-03-12W
 Rig: 522

Location:



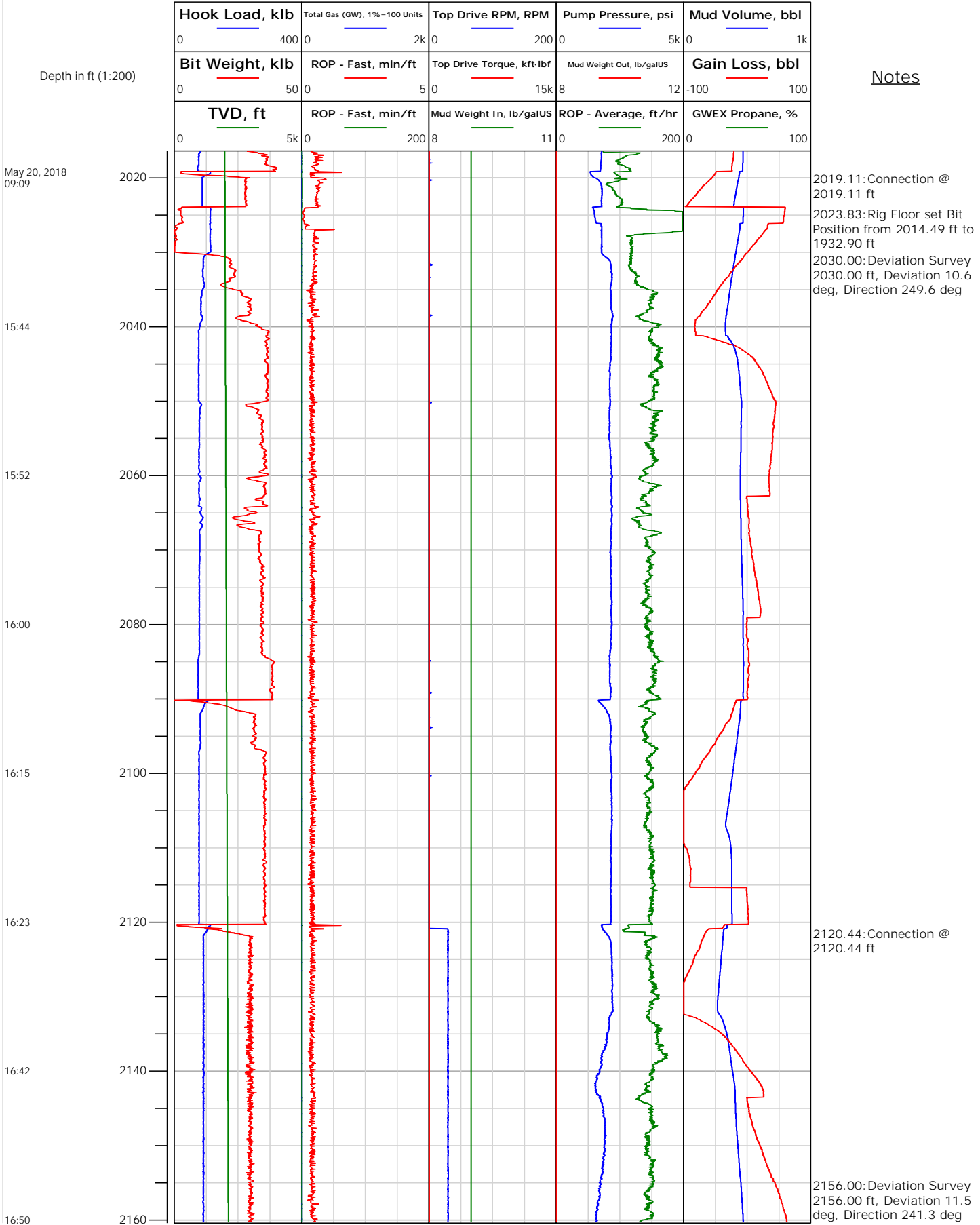


Electronic Drilling Recorder

Operator: Laramie Energy
 Contractor: Helmerich & Payne Drlg Co

Well Name: CC 0697-03-12W
 Rig: 522

Location:



Notes

2019.11: Connection @ 2019.11 ft
 2023.83: Rig Floor set Bit Position from 2014.49 ft to 1932.90 ft
 2030.00: Deviation Survey 2030.00 ft, Deviation 10.6 deg, Direction 249.6 deg

2120.44: Connection @ 2120.44 ft

2156.00: Deviation Survey 2156.00 ft, Deviation 11.5 deg, Direction 241.3 deg

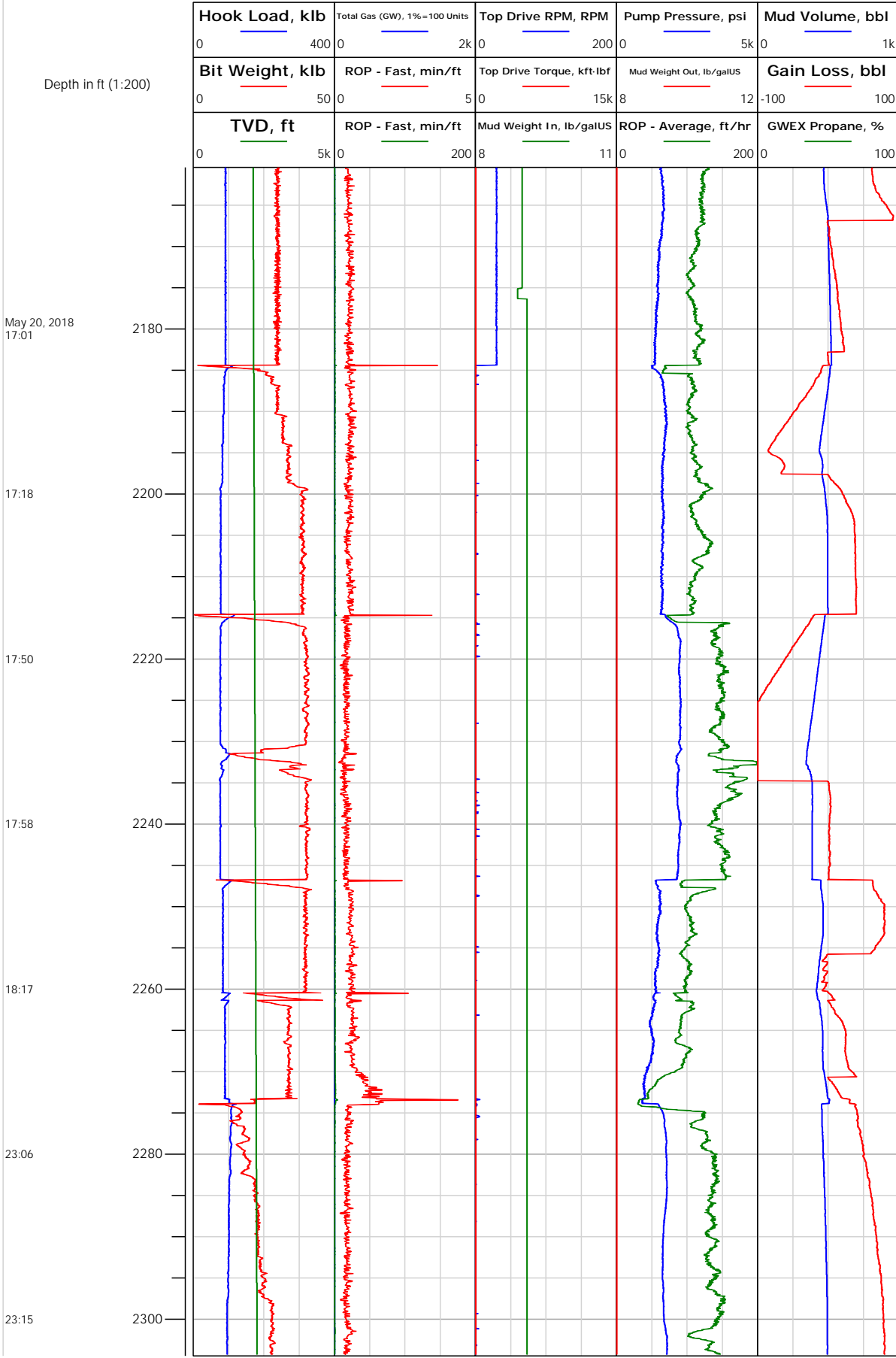


Electronic Drilling Recorder

Operator: Laramie Energy
Contractor: Helmerich & Payne Drlg Co

Well Name: CC 0697-03-12W
Rig: 522

Location:



Notes

2214.63: Connection @
2214.64 ft



Electronic Drilling Recorder

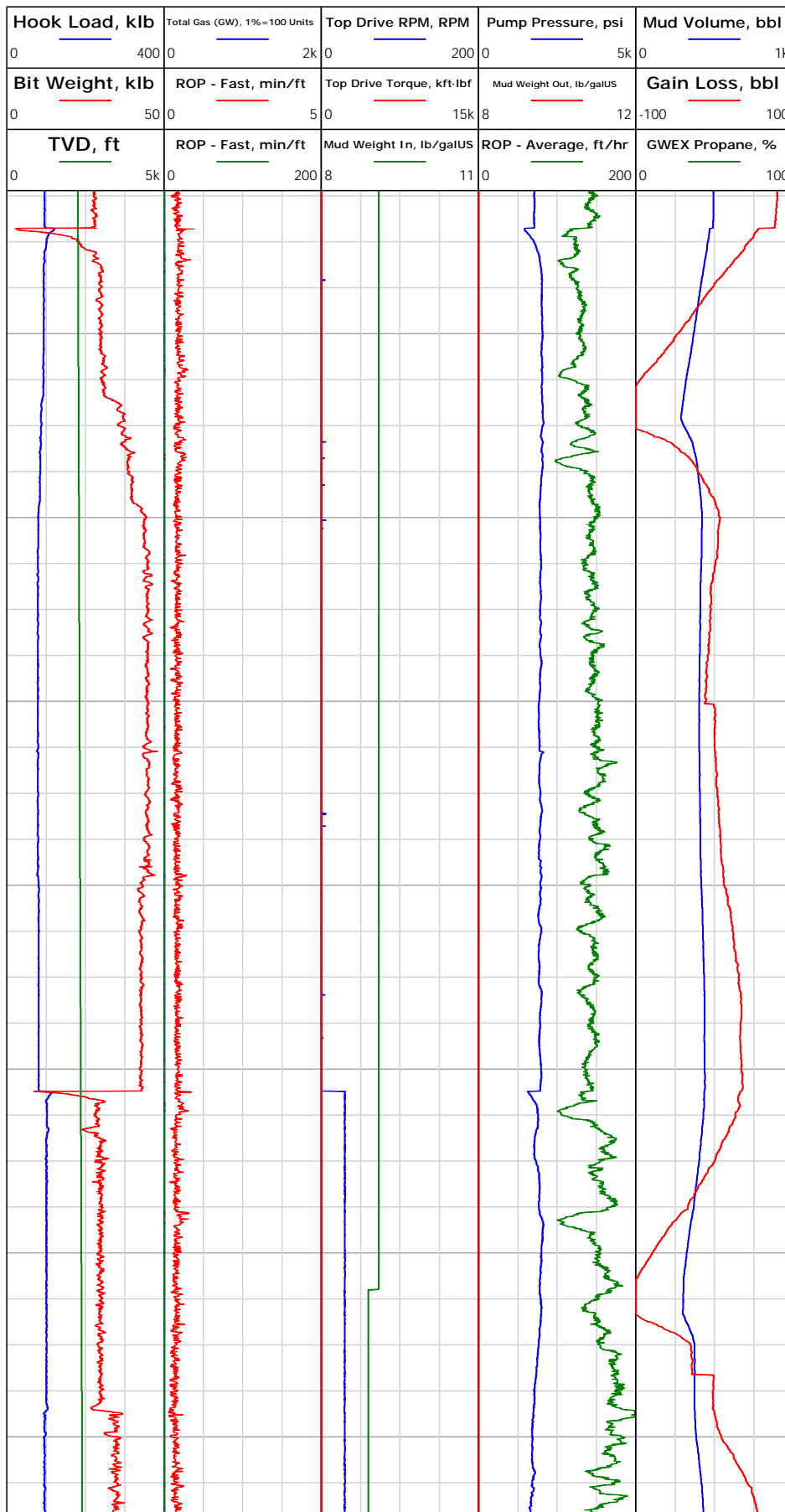
Operator: Laramie Energy
 Contractor: Helmerich & Payne Drlg Co

Well Name: CC 0697-03-12W
 Rig: 522

Location:

Depth in ft (1:200)

Notes



May 20, 2018
23:32

23:41

23:49

23:57

May 21, 2018
00:05

00:21

00:28

2308.49: Connection @
2308.49 ft

2345.00: Deviation Survey
2345.00 ft, Deviation 15.1
deg, Direction 244.5 deg

2402.54: Connection @
2402.54 ft

2439.00: Deviation Survey
2439.00 ft, Deviation 15.1
deg, Direction 245.4 deg

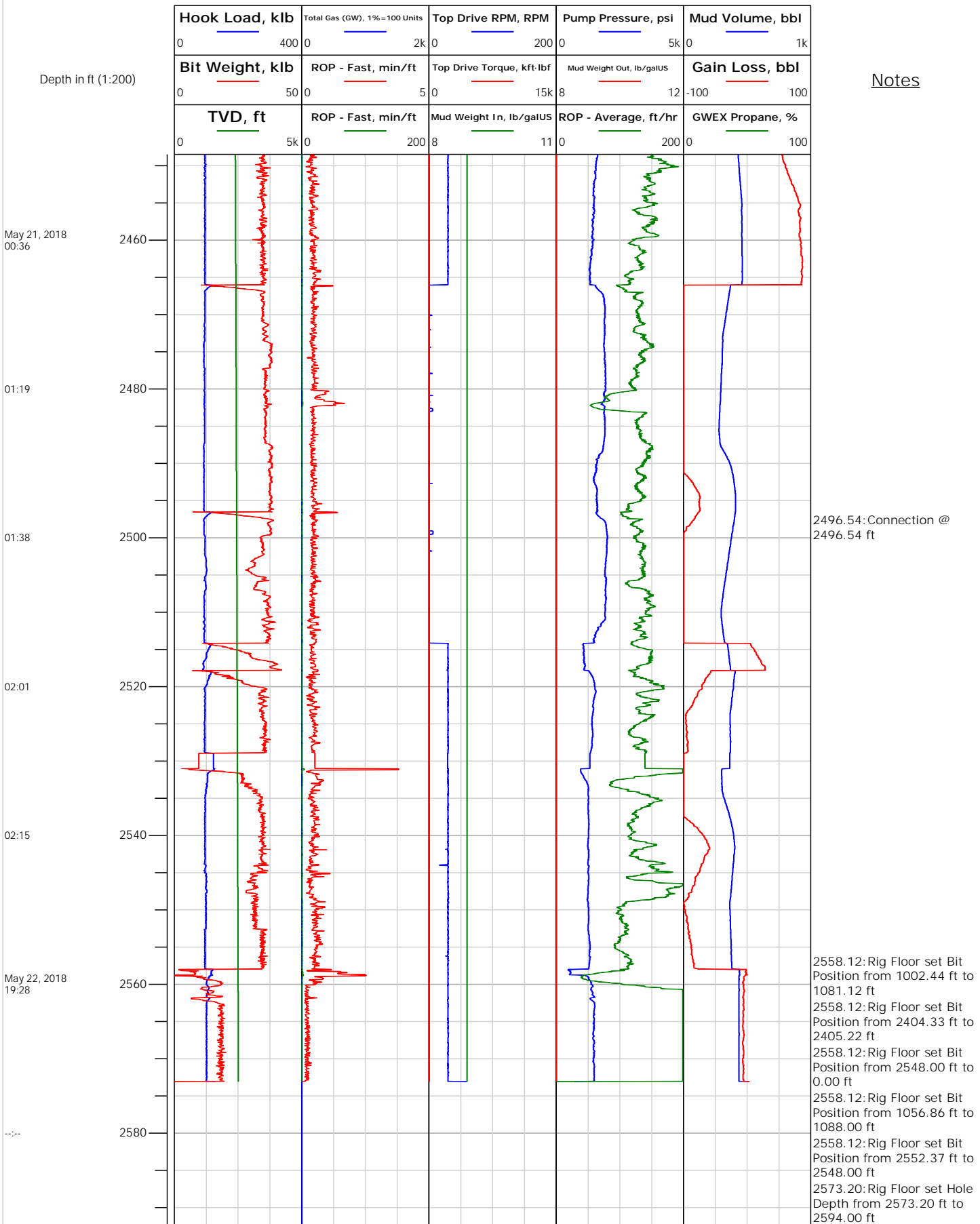


Electronic Drilling Recorder

Operator: Laramie Energy
 Contractor: Helmerich & Payne Drlg Co

Well Name: CC 0697-03-12W
 Rig: 522

Location:



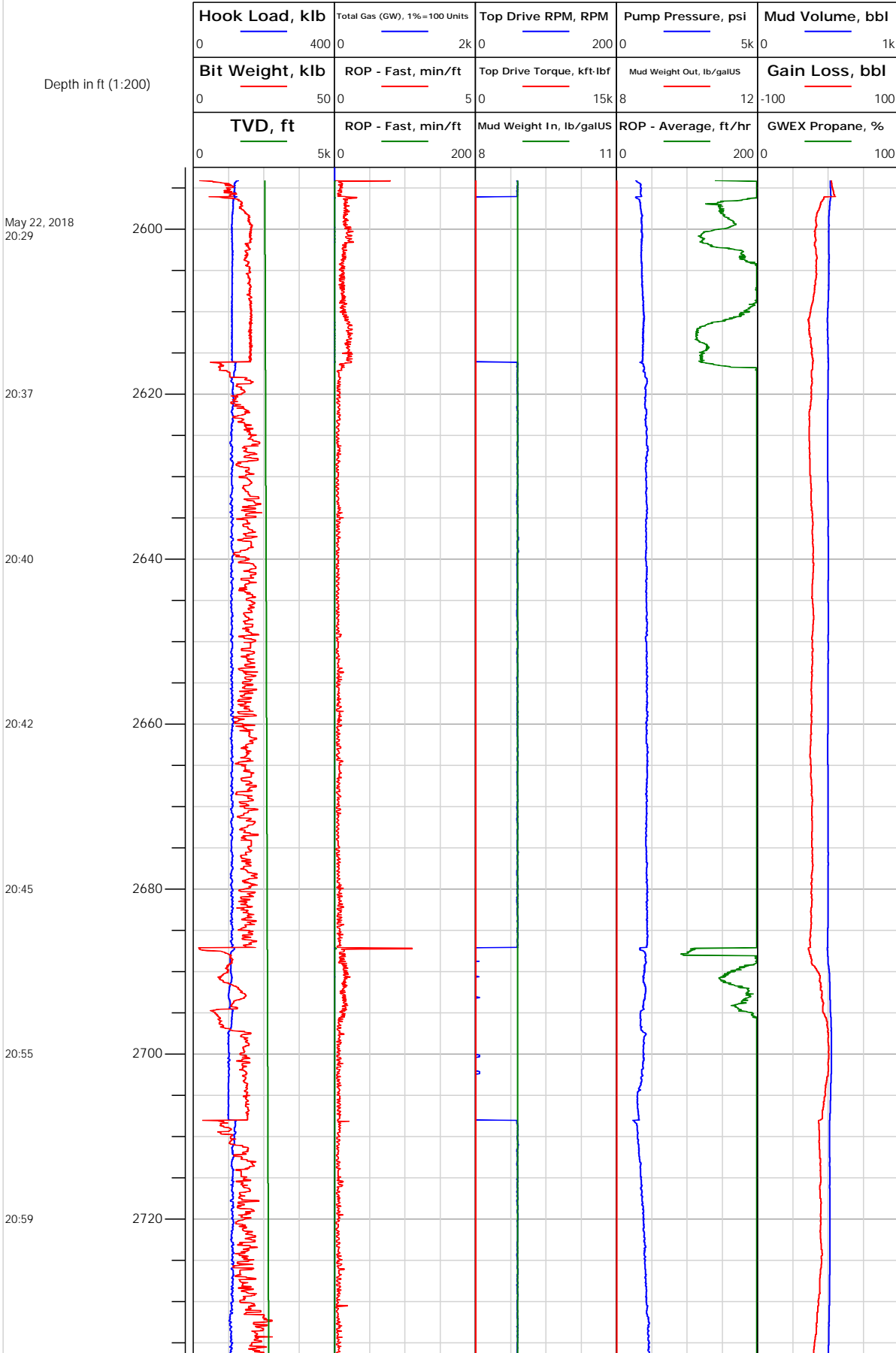


Electronic Drilling Recorder

Operator: Laramie Energy
Contractor: Helmerich & Payne Drlg Co

Well Name: CC 0697-03-12W
Rig: 522

Location:



Notes

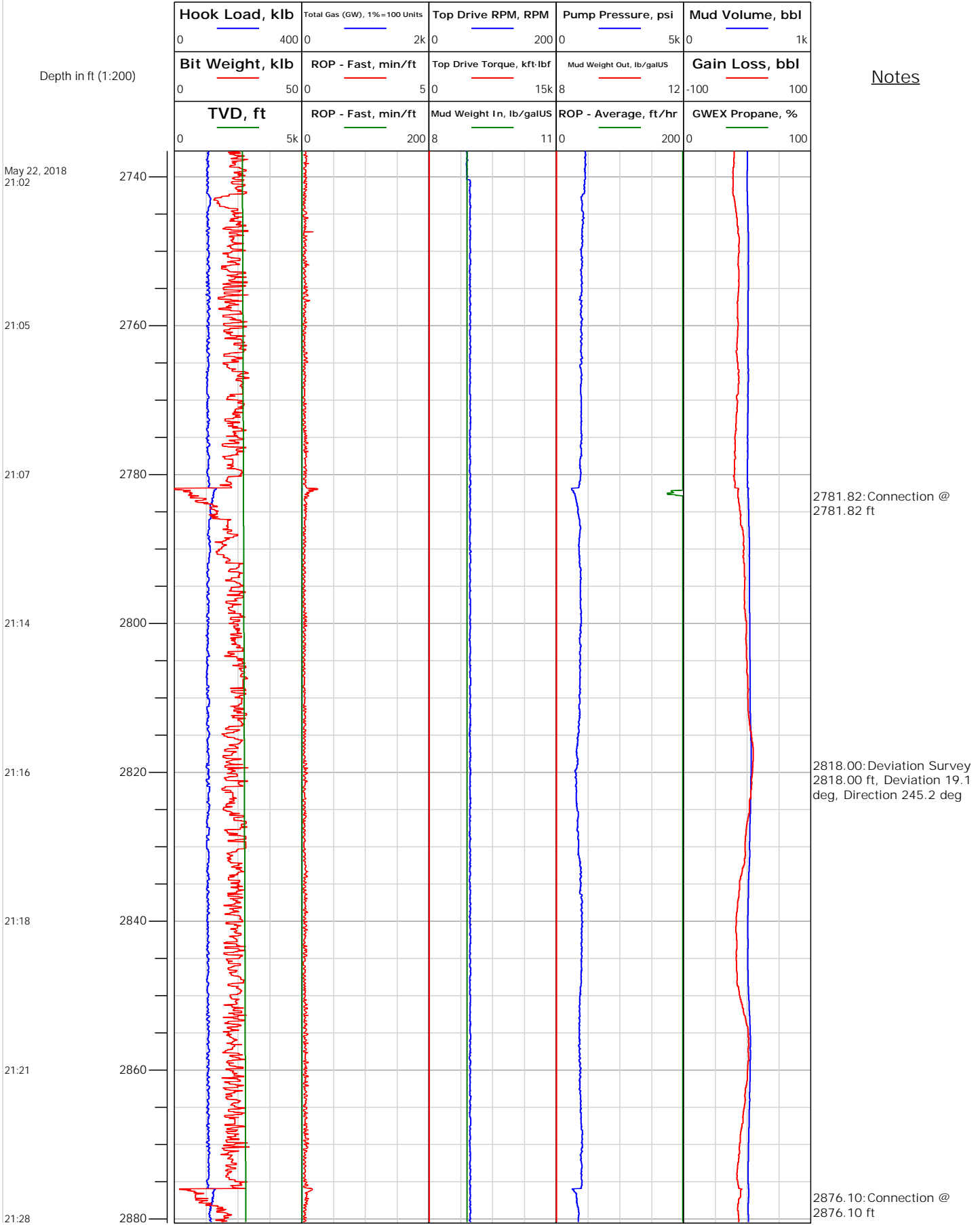


Electronic Drilling Recorder

Operator: Laramie Energy
Contractor: Helmerich & Payne Drlg Co

Well Name: CC 0697-03-12W
Rig: 522

Location:





Electronic Drilling Recorder

Operator: Laramie Energy
 Contractor: Helmerich & Payne Drlg Co

Well Name: CC 0697-03-12W
 Rig: 522

Location:

Depth in ft (1:200)

Notes

Hook Load, klb	Total Gas (GW), 1%=100 Units	Top Drive RPM, RPM	Pump Pressure, psi	Mud Volume, bbl
0 400	0 2k	0 200	0 5k	0 1k
Bit Weight, klb	ROP - Fast, min/ft	Top Drive Torque, kft-lbf	Mud Weight Out, lb/galUS	Gain Loss, bbl
0 50	0 5	0 15k	8 12	-100 100
TVD, ft	ROP - Fast, min/ft	Mud Weight In, lb/galUS	ROP - Average, ft/hr	GWEX Propane, %
0 5k	0 200	8 11	0 200	0 100

May 22, 2018
21:31

21:33

21:36

21:40

21:49

21:52

21:55

2900

2920

2940

2960

2980

3000

3020

2913.00: Deviation Survey
2913.00 ft, Deviation 18.1 deg, Direction 246 deg

2970.16: Connection @
2970.16 ft

3008.00: Deviation Survey
3008.00 ft, Deviation 17.4 deg, Direction 244.4 deg



Electronic Drilling Recorder

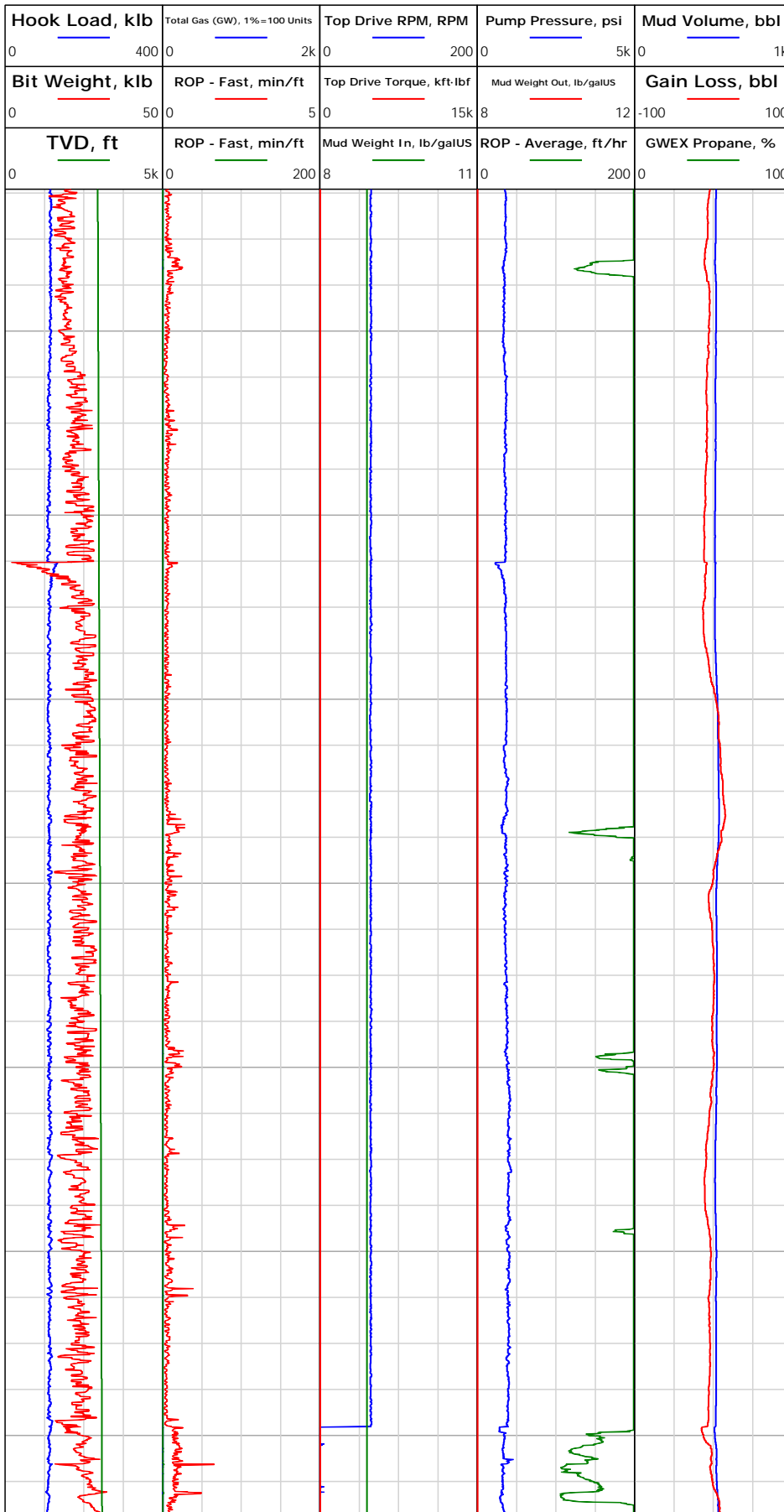
Operator: Laramie Energy
 Contractor: Helmerich & Payne Drlg Co

Well Name: CC 0697-03-12W
 Rig: 522

Location:

Depth in ft (1:200)

Notes



May 22, 2018
21:59

22:02

22:09

22:13

22:16

22:20

22:28

3040

3060

3080

3100

3120

3140

3160

3065.15: Connection @
3065.15 ft

3102.00: Deviation Survey
3102.00 ft, Deviation 15
deg, Direction 243.3 deg

3159.23: Connection @
3159.23 ft



Electronic Drilling Recorder

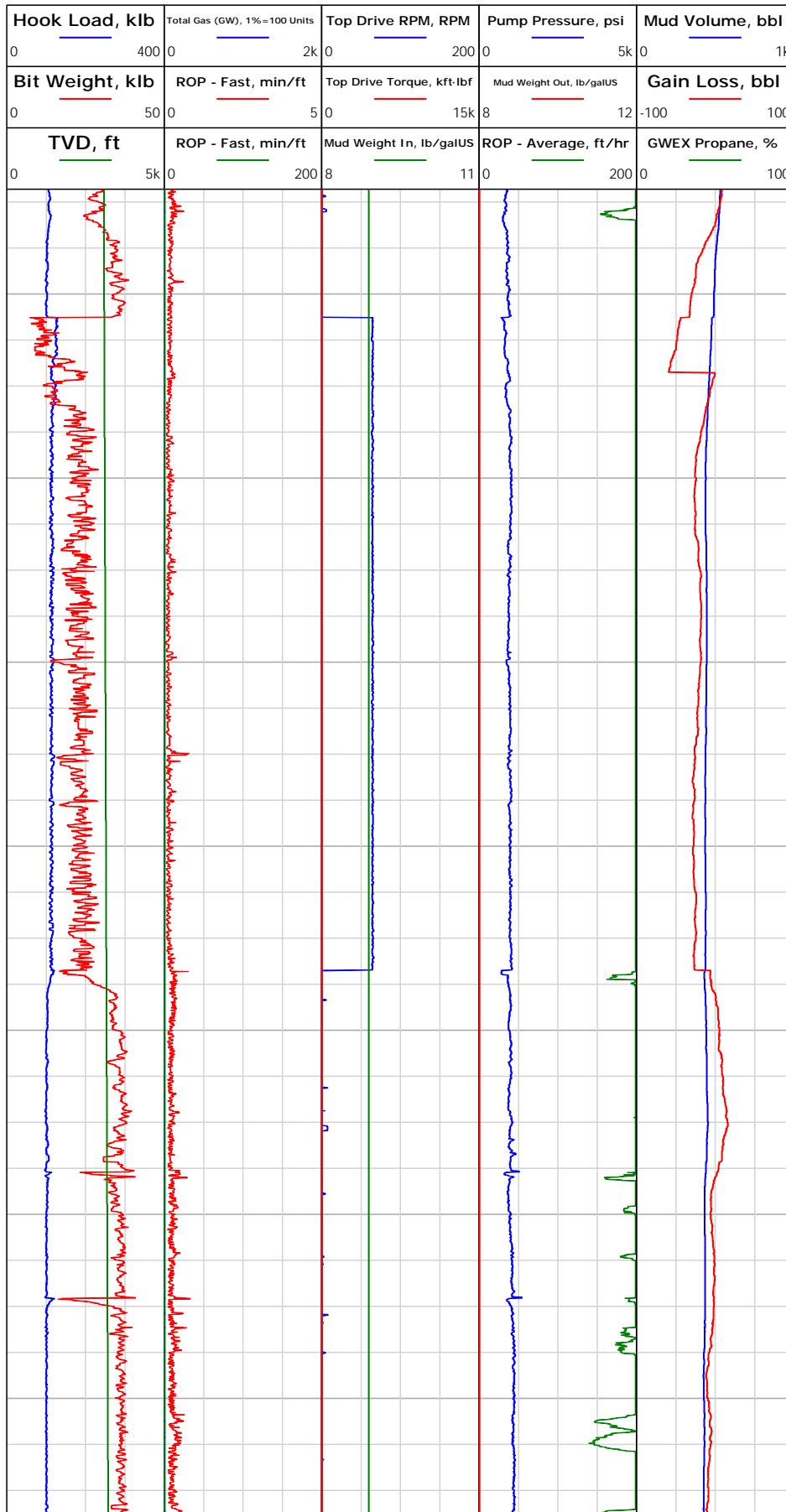
Operator: Laramie Energy
 Contractor: Helmerich & Payne Drlg Co

Well Name: CC 0697-03-12W
 Rig: 522

Location:

Depth in ft (1:200)

Notes



May 22, 2018
22:34

22:38

22:41

22:44

22:52

22:57

23:02

3197.00: Deviation Survey
 3197.00 ft, Deviation 13.8 deg, Direction 244.2 deg

3253.60: Connection @
 3253.60 ft

3291.00: Deviation Survey
 3291.00 ft, Deviation 14.6 deg, Direction 252.6 deg



Electronic Drilling Recorder

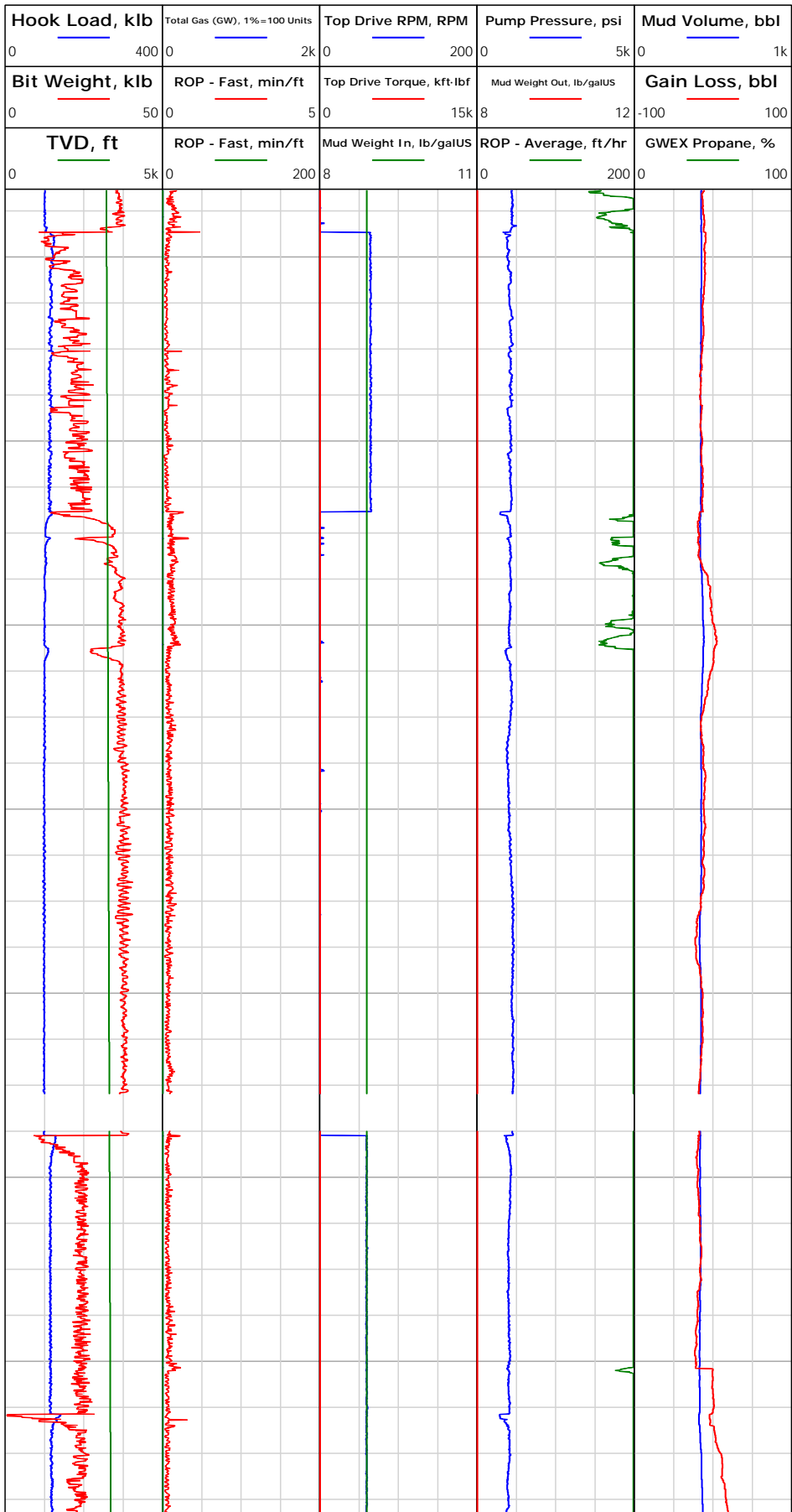
Operator: Laramie Energy
 Contractor: Helmerich & Payne Drlg Co

Well Name: CC 0697-03-12W
 Rig: 522

Location:

Depth in ft (1:200)

Notes



May 22, 2018
23:09

23:12

23:20

23:25

23:29

23:33

23:37

3347.65: Connection @
3347.65 ft

3386.00: Deviation Survey
3386.00 ft, Deviation 17.5
deg, Direction 248.6 deg

3410.90: Rig Floor set Hole
Depth from 3404.49 ft to
3415.00 ft

3447.11: Rig Floor set Hole
Depth from 3445.89 ft to
3446.65 ft

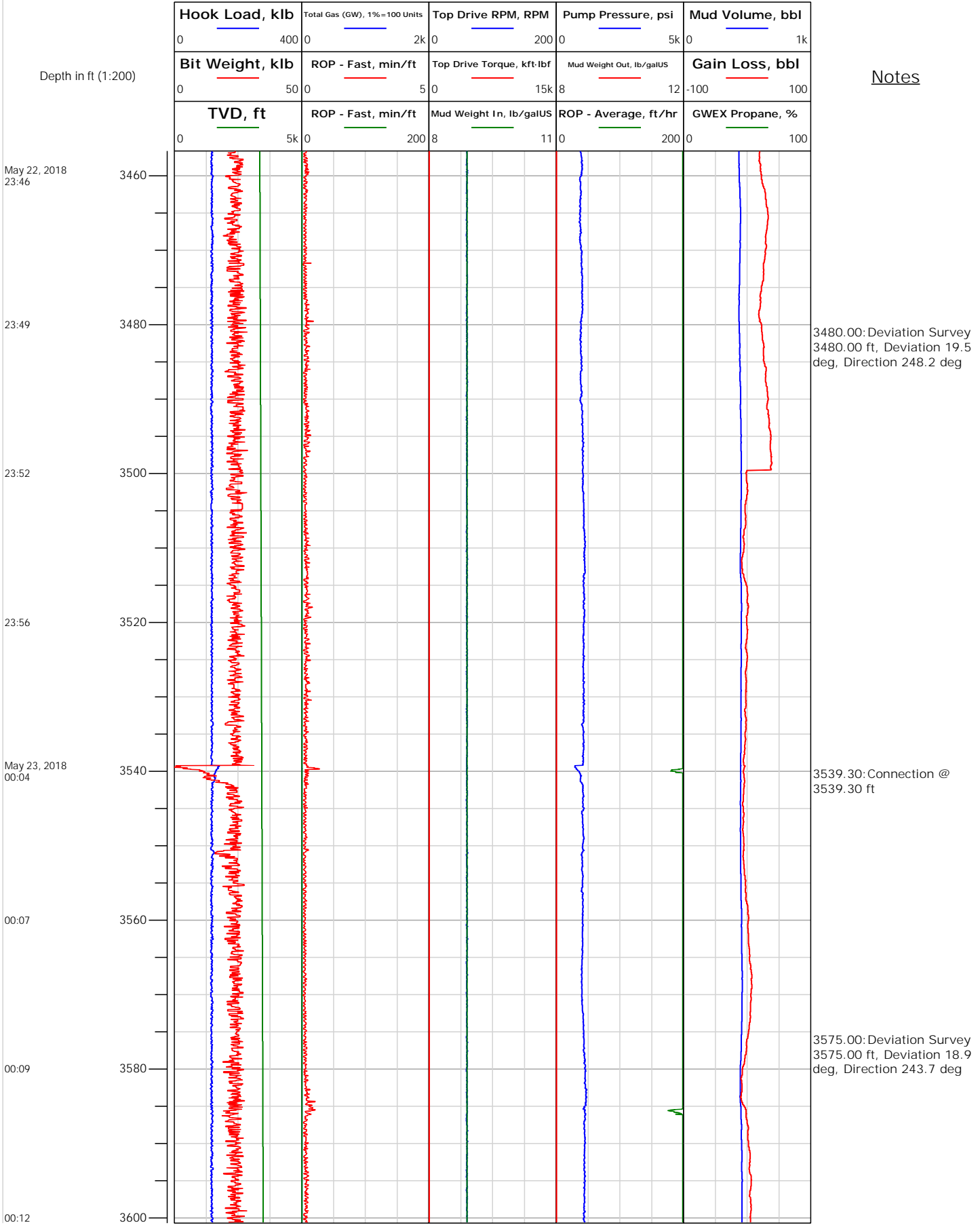


Electronic Drilling Recorder

Operator: Laramie Energy
 Contractor: Helmerich & Payne Drlg Co

Well Name: CC 0697-03-12W
 Rig: 522

Location:





Electronic Drilling Recorder

Operator: Laramie Energy
 Contractor: Helmerich & Payne Drlg Co

Well Name: CC 0697-03-12W
 Rig: 522

Location:

Depth in ft (1:200)

Notes

Hook Load, klb	Total Gas (GW), 1%=100 Units	Top Drive RPM, RPM	Pump Pressure, psi	Mud Volume, bbl
0 400	0 2k	0 200	0 5k	0 1k
Bit Weight, klb	ROP - Fast, min/ft	Top Drive Torque, kft-lbf	Mud Weight Out, lb/galUS	Gain Loss, bbl
0 50	0 5	0 15k	8 12	-100 100
TVD, ft	ROP - Fast, min/ft	Mud Weight In, lb/galUS	ROP - Average, ft/hr	GWEX Propane, %
0 5k	0 200	8 11	0 200	0 100

May 23, 2018
00:15

00:24

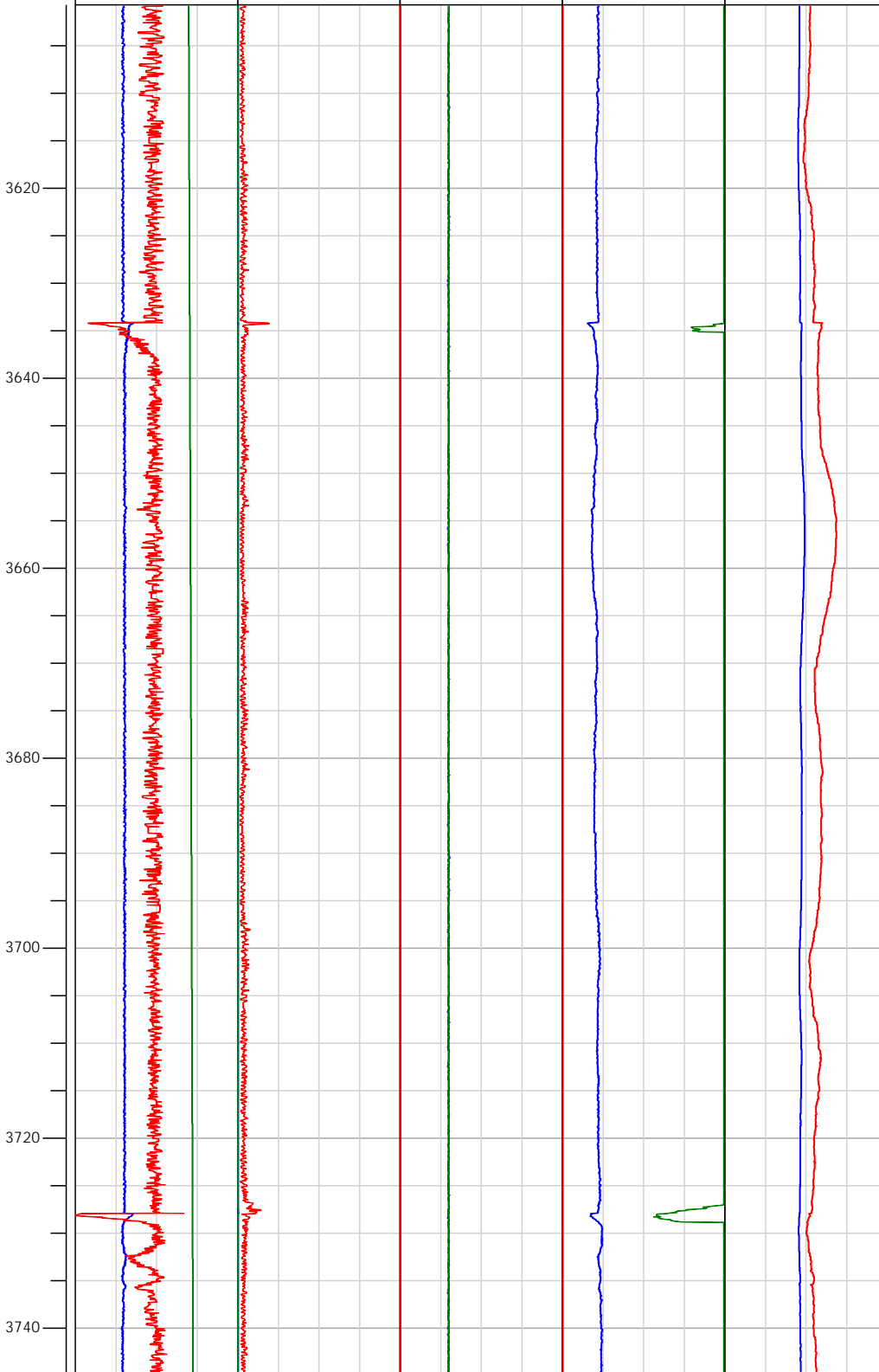
00:27

00:30

00:34

00:37

00:46



3634.11: Connection @
3634.11 ft

3670.00: Deviation Survey
3670.00 ft, Deviation 18.7
deg, Direction 249 deg

3728.06: Connection @
3728.06 ft



Electronic Drilling Recorder

Operator: Laramie Energy
 Contractor: Helmerich & Payne Drlg Co

Well Name: CC 0697-03-12W
 Rig: 522

Location:

Depth in ft (1:200)

Notes

Hook Load, klb	Total Gas (GW), 1%=100 Units	Top Drive RPM, RPM	Pump Pressure, psi	Mud Volume, bbl
0 400	0 2k	0 200	0 5k	0 1k
Bit Weight, klb	ROP - Fast, min/ft	Top Drive Torque, kft-lbf	Mud Weight Out, lb/galUS	Gain Loss, bbl
0 50	0 5	0 15k	8 12	-100 100
TVD, ft	ROP - Fast, min/ft	Mud Weight In, lb/galUS	ROP - Average, ft/hr	GWEX Propane, %
0 5k	0 200	8 11	0 200	0 100

May 23, 2018
00:50

00:53

00:56

00:59

01:10

01:15

01:18

3760

3780

3800

3820

3840

3860

3880

3764.00: Deviation Survey
3764.00 ft, Deviation 18.3 deg, Direction 29 deg

3821.81: Connection @
3821.81 ft

3858.00: Deviation Survey
3858.00 ft, Deviation 17.5 deg, Direction 244.1 deg

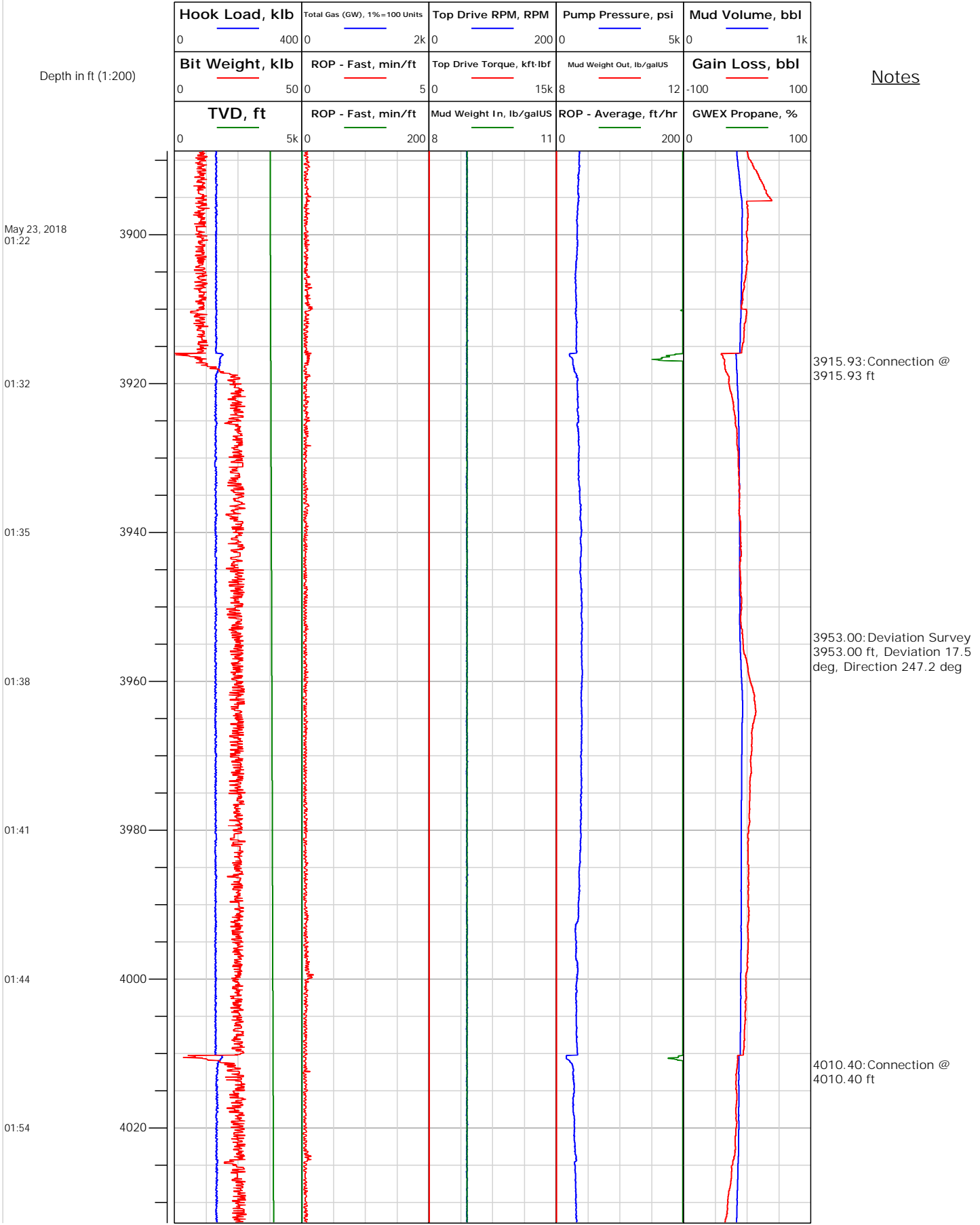


Electronic Drilling Recorder

Operator: Laramie Energy
 Contractor: Helmerich & Payne Drlg Co

Well Name: CC 0697-03-12W
 Rig: 522

Location:





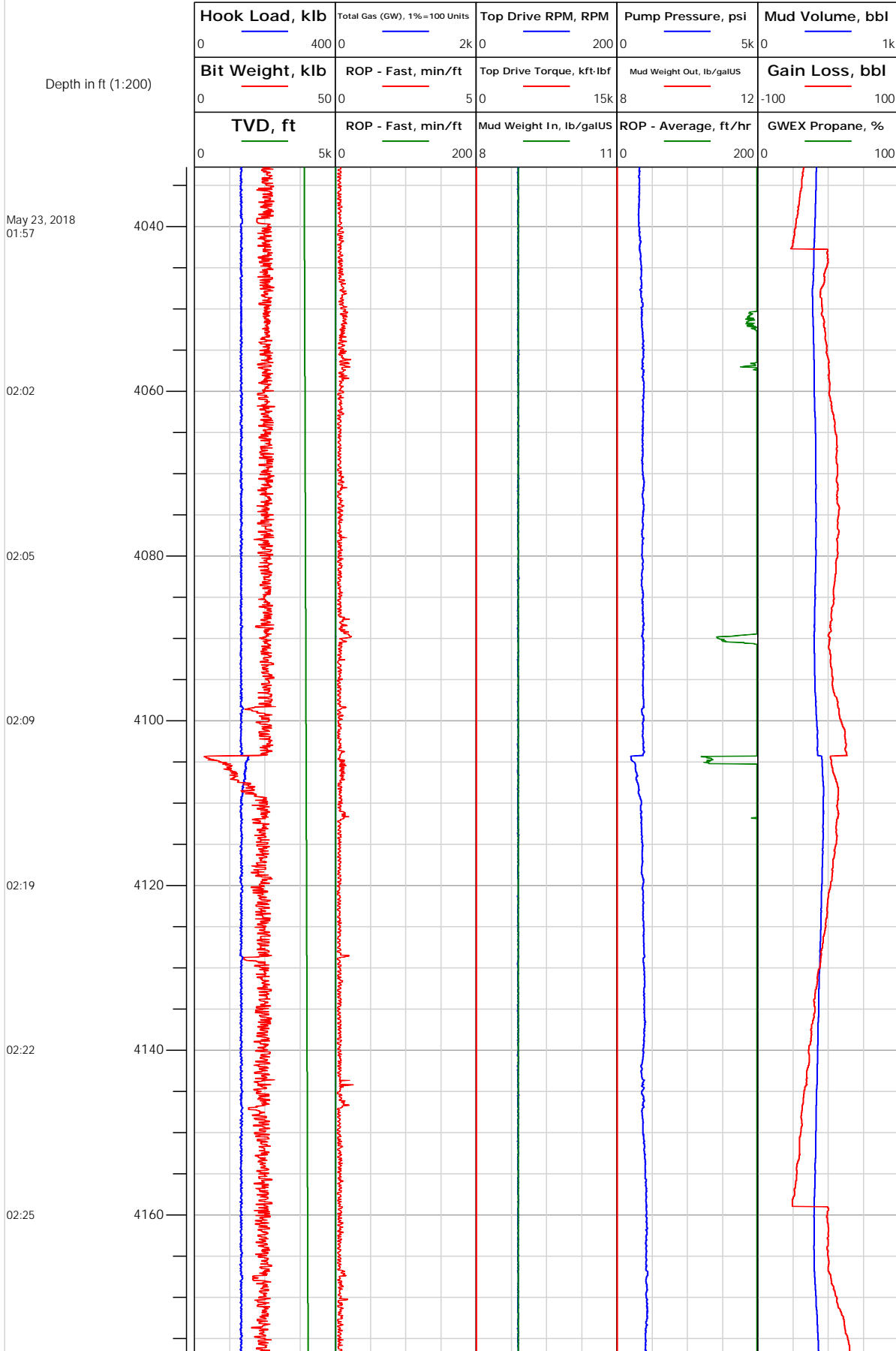
Electronic Drilling Recorder

Operator: Laramie Energy
 Contractor: Helmerich & Payne Drlg Co

Well Name: CC 0697-03-12W
 Rig: 522

Location:

Notes





Electronic Drilling Recorder

Operator: Laramie Energy
 Contractor: Helmerich & Payne Drlg Co

Well Name: CC 0697-03-12W
 Rig: 522

Location:

Depth in ft (1:200)

Notes

Hook Load, klb	Total Gas (GW), 1%=100 Units	Top Drive RPM, RPM	Pump Pressure, psi	Mud Volume, bbl
Bit Weight, klb	ROP - Fast, min/ft	Top Drive Torque, kft-lbf	Mud Weight Out, lb/galUS	Gain Loss, bbl
TVD, ft	ROP - Fast, min/ft	Mud Weight In, lb/galUS	ROP - Average, ft/hr	GWEX Propane, %
0 400	0 2k	0 200	0 5k	0 1k
0 50	0 5	0 15k	8 12	-100 100
0 5k	0 200	8 11	0 200	0 100

May 23, 2018
02:29

02:40

02:47

02:51

02:54

02:58

03:07

03:09

4180

4200

4220

4240

4260

4280

4300

4320

4198.56: Connection @
4198.57 ft

4235.00: Deviation Survey
4235.00 ft, Deviation 17.6
deg, Direction 249 deg

4292.16: Connection @
4292.16 ft



Electronic Drilling Recorder

Operator: Laramie Energy
 Contractor: Helmerich & Payne Drlg Co

Well Name: CC 0697-03-12W
 Rig: 522

Location:

Depth in ft (1:200)

Hook Load, Klb	Total Gas (GW), 1%=100 Units	Top Drive RPM, RPM	Pump Pressure, psi	Mud Volume, bbl
0 400	0 2k	0 200	0 5k	0 1k
Bit Weight, Klb	ROP - Fast, min/ft	Top Drive Torque, kft-lbf	Mud Weight Out, lb/galUS	Gain Loss, bbl
0 50	0 5	0 15k	8 12	-100 100
TVD, ft	ROP - Fast, min/ft	Mud Weight In, lb/galUS	ROP - Average, ft/hr	GWEX Propane, %
0 5k	0 200	8 11	0 200	0 100

Notes

May 23, 2018
03:12

03:15

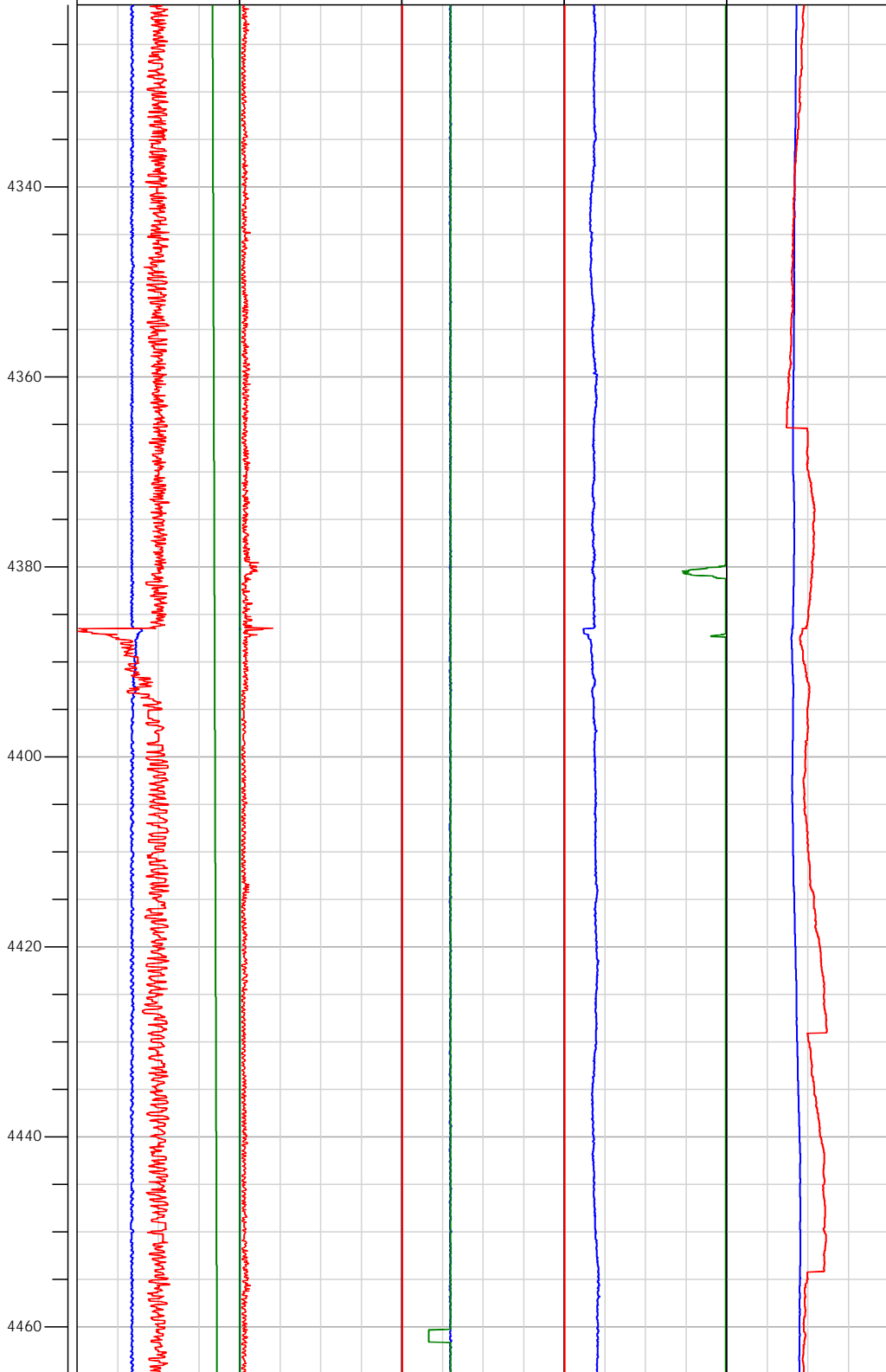
03:19

03:31

03:33

03:36

03:39



4330.00: Deviation Survey
 4330.00 ft, Deviation 18 deg, Direction 249.3 deg
 4330.00: Deviation Survey
 4330.00 ft, Deviation 18 deg, Direction 249.3 deg

4386.50: Connection @
 4386.50 ft

4424.00: Deviation Survey
 4424.00 ft, Deviation 17.3 deg, Direction 250.4 deg



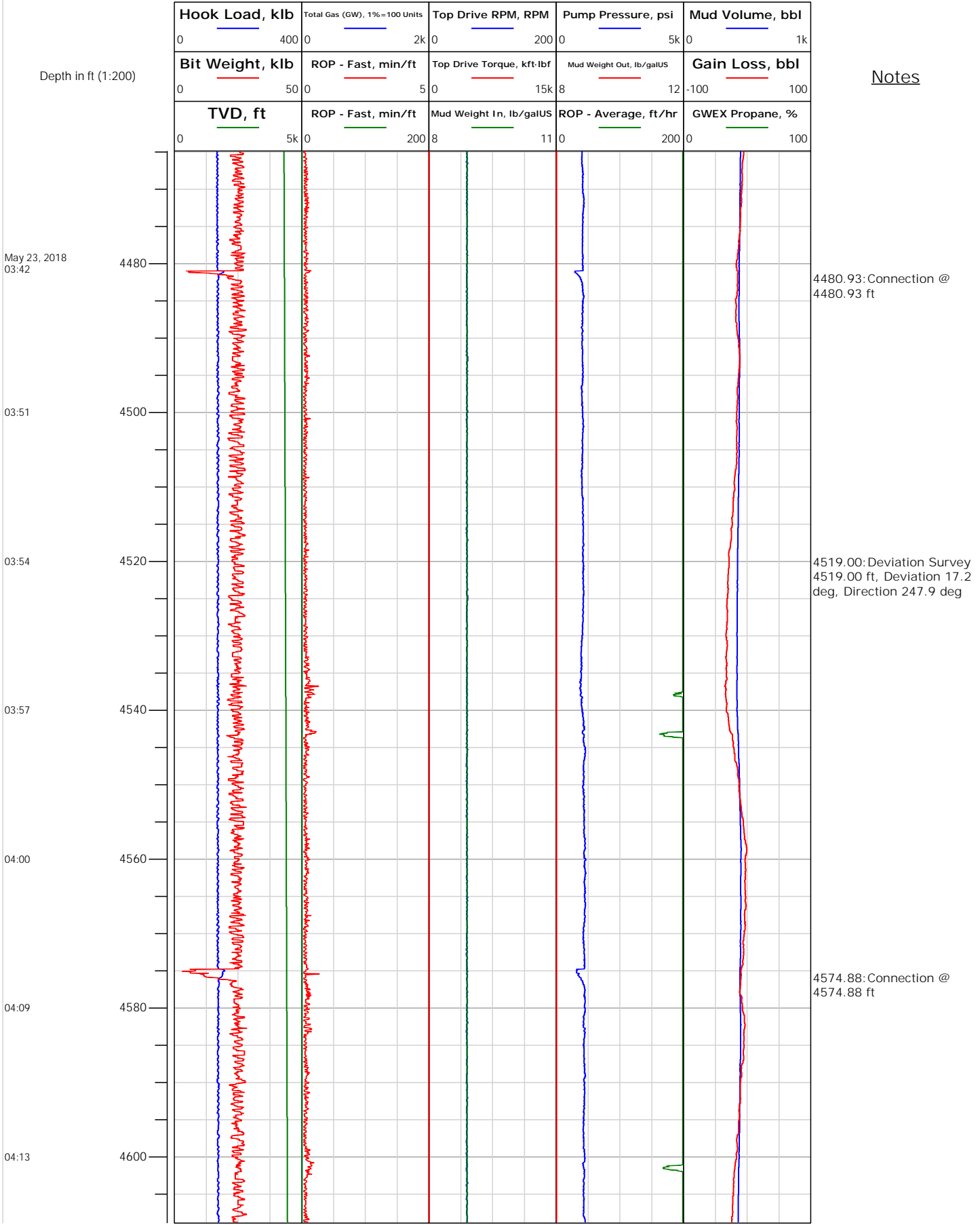
Electronic Drilling Recorder

Operator: Laramie Energy
 Contractor: Helmerich & Payne Drlg Co

Well Name: CC 0697-03-12W
 Rig: 522

Location:

Notes



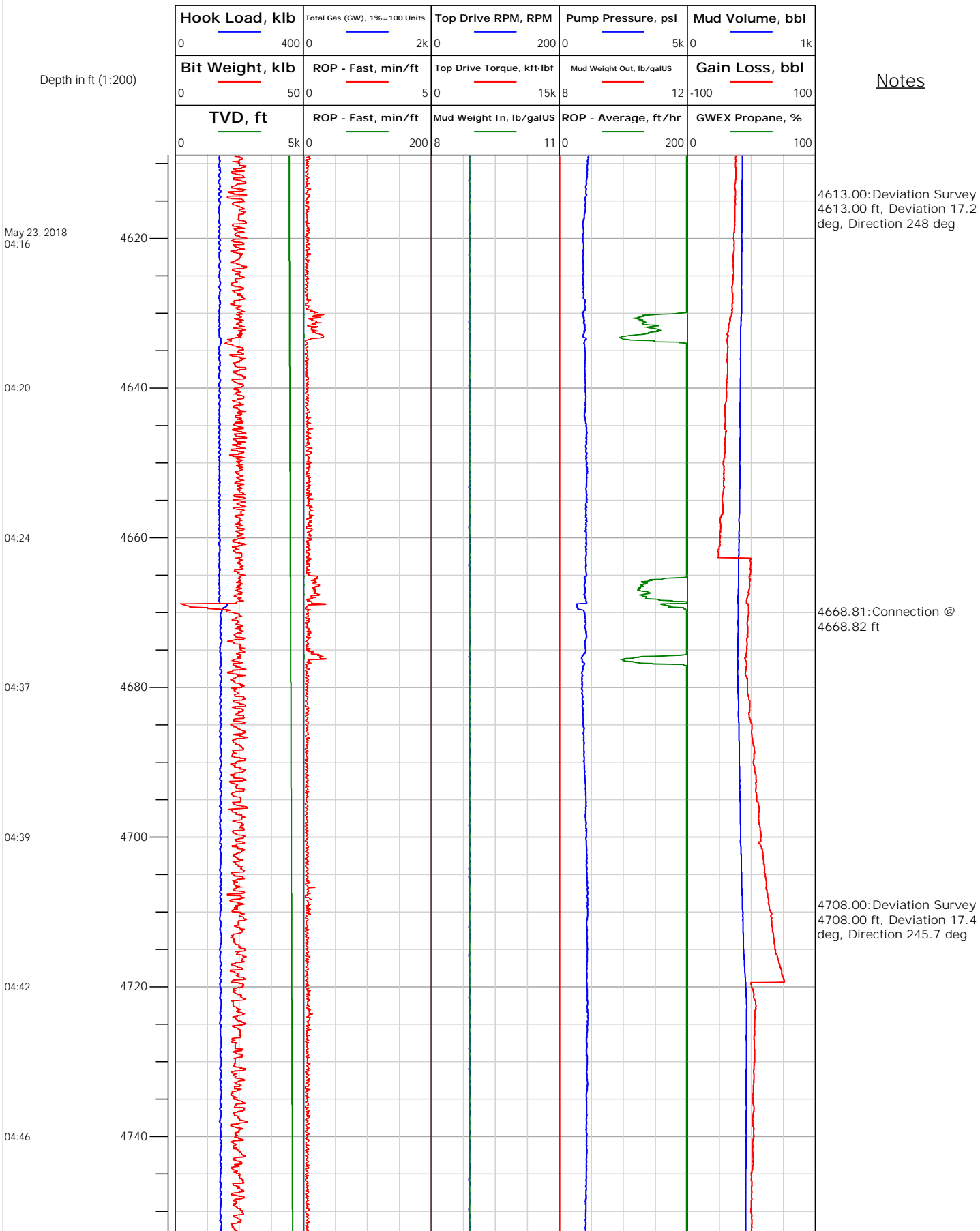


Electronic Drilling Recorder

Operator: Laramie Energy
 Contractor: Helmerich & Payne Drlg Co

Well Name: CC 0697-03-12W
 Rig: 522

Location:





Electronic Drilling Recorder

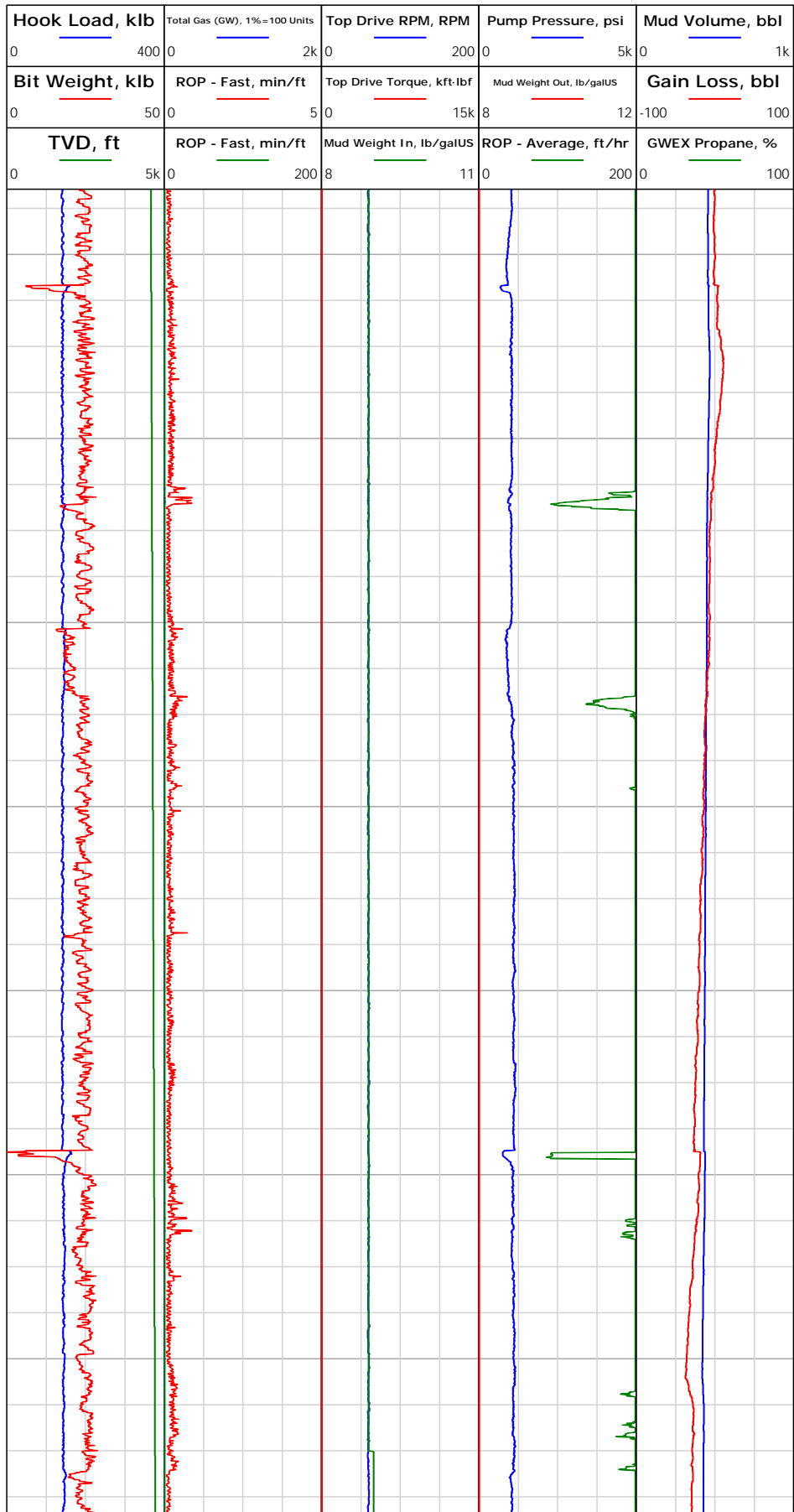
Operator: Laramie Energy
 Contractor: Helmerich & Payne Drlg Co

Well Name: CC 0697-03-12W
 Rig: 522

Location:

Depth in ft (1:200)

Notes



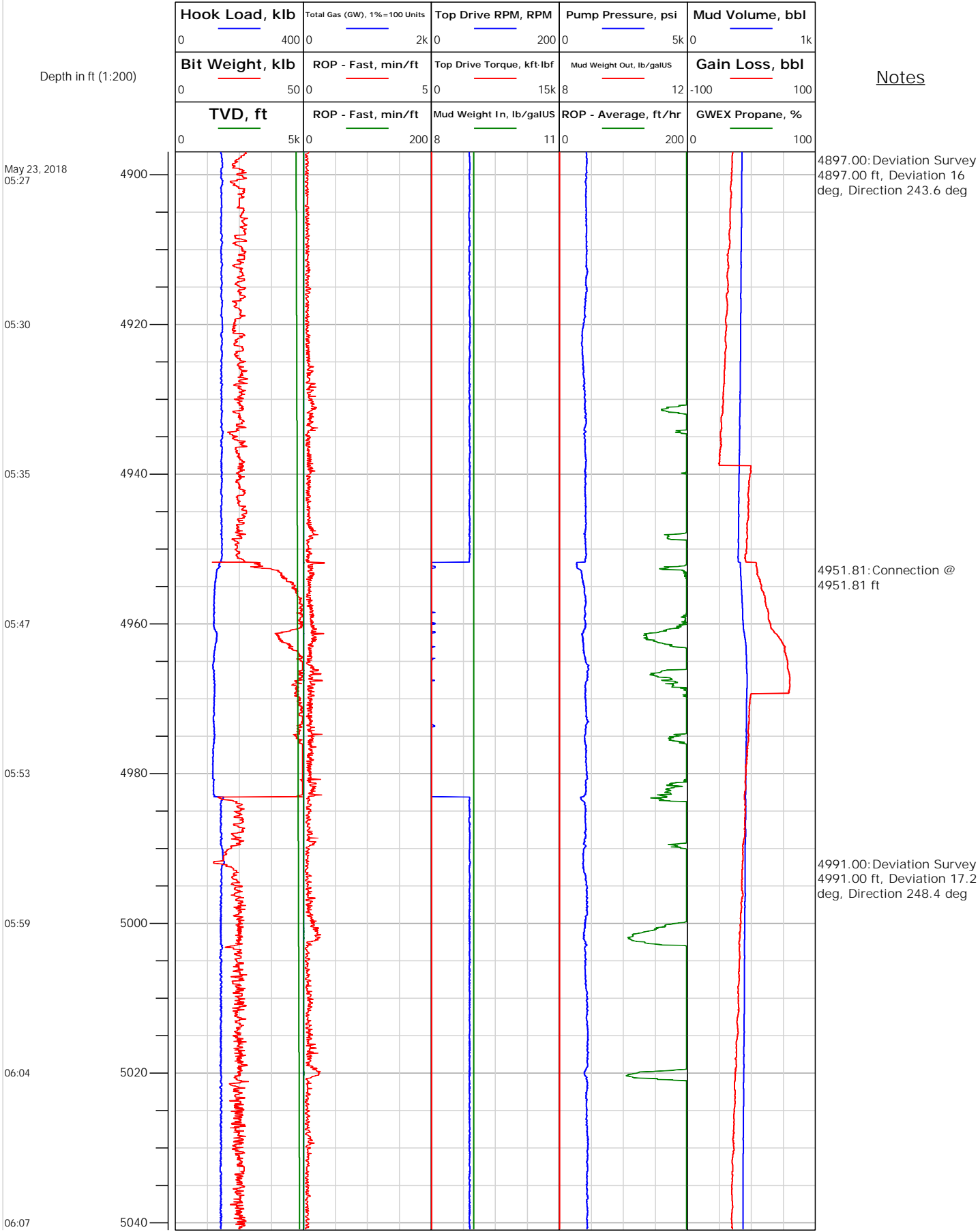


Electronic Drilling Recorder

Operator: Laramie Energy
 Contractor: Helmerich & Payne Drlg Co

Well Name: CC 0697-03-12W
 Rig: 522

Location:



Notes

4897.00: Deviation Survey
 4897.00 ft, Deviation 16 deg, Direction 243.6 deg

4951.81: Connection @
 4951.81 ft

4991.00: Deviation Survey
 4991.00 ft, Deviation 17.2 deg, Direction 248.4 deg

May 23, 2018
 05:27

05:30

05:35

05:47

05:53

05:59

06:04

06:07

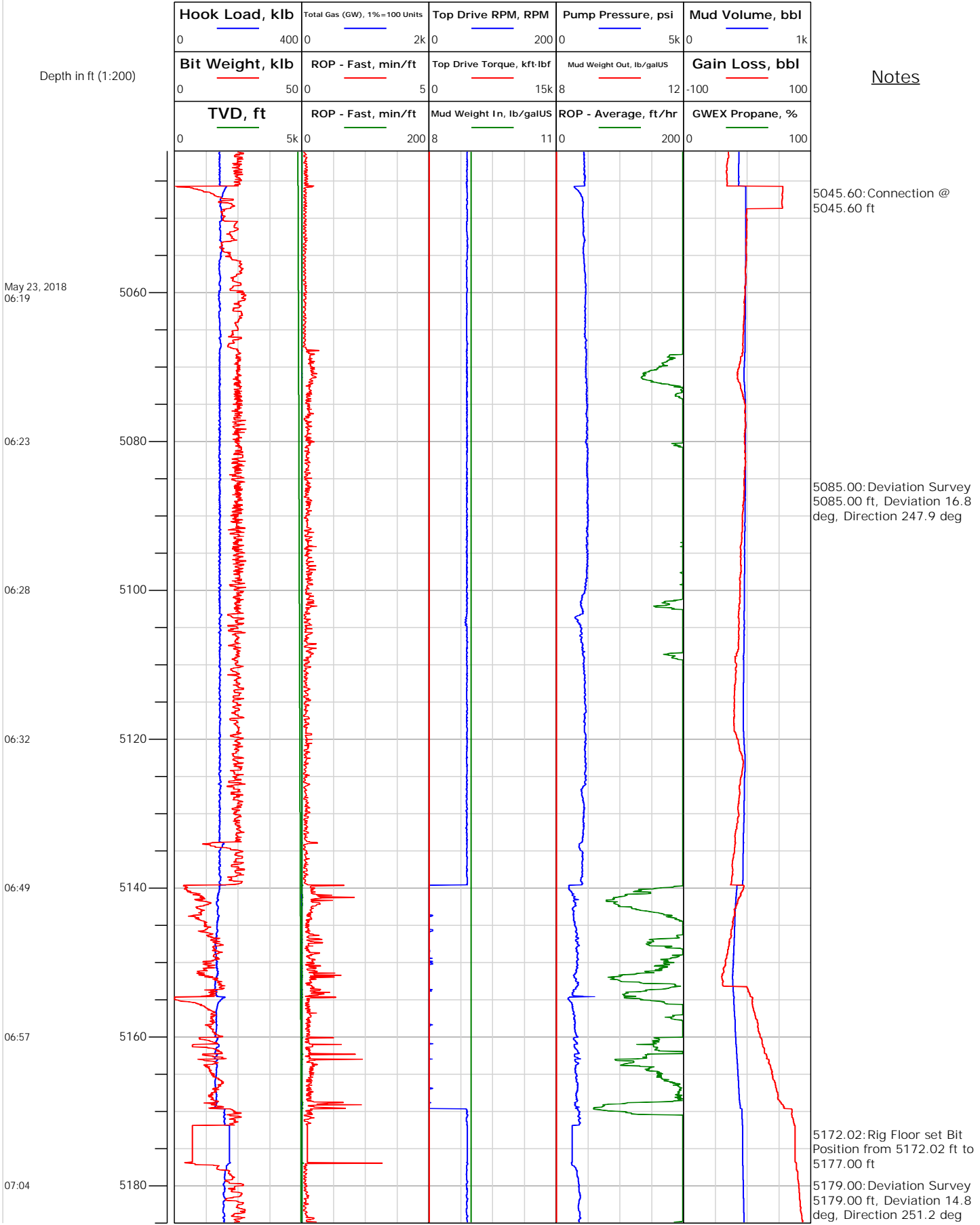


Electronic Drilling Recorder

Operator: Laramie Energy
Contractor: Helmerich & Payne Drlg Co

Well Name: CC 0697-03-12W
Rig: 522

Location:





Electronic Drilling Recorder

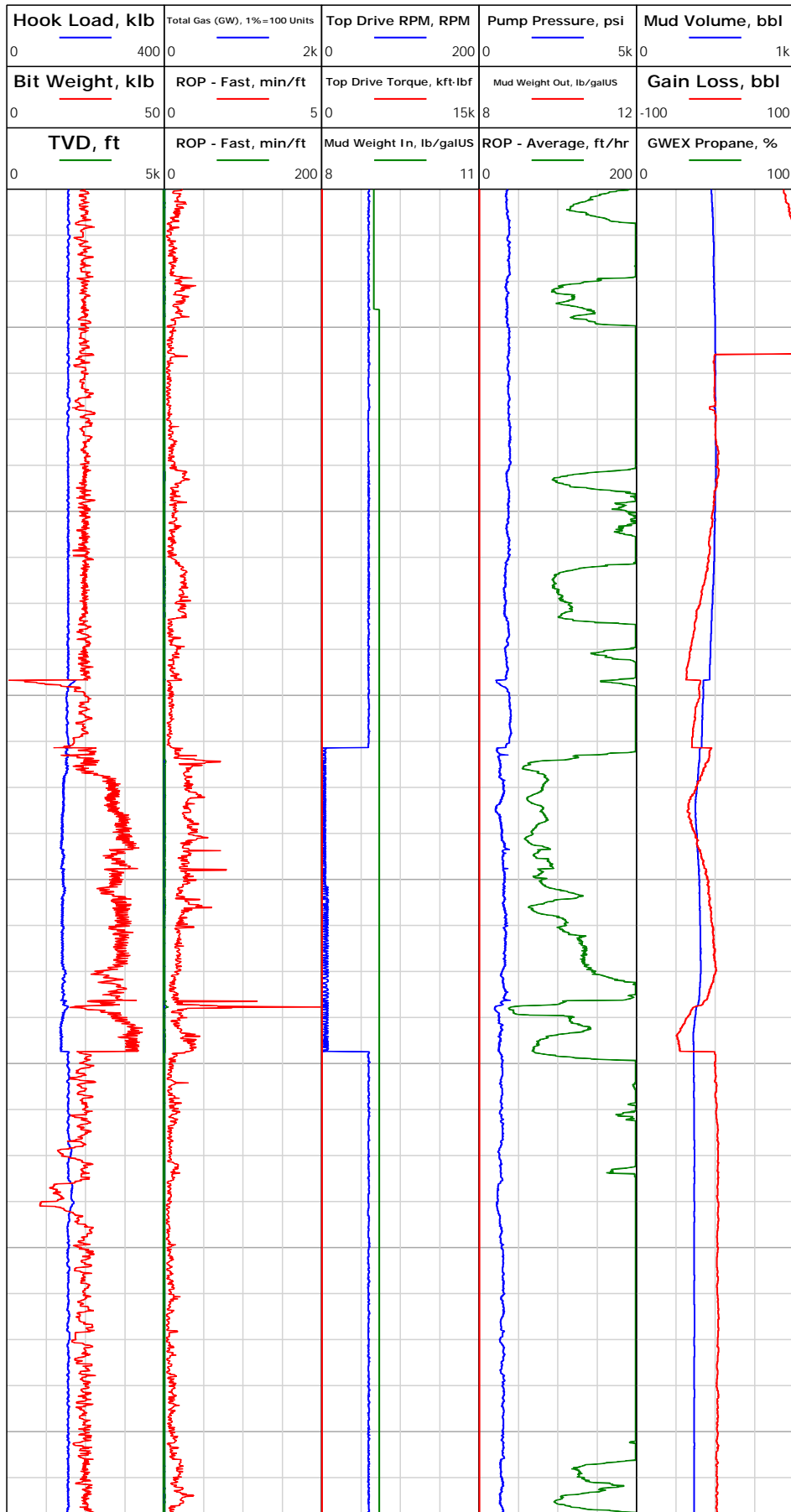
Operator: Laramie Energy
 Contractor: Helmerich & Payne Drlg Co

Well Name: CC 0697-03-12W
 Rig: 522

Location:

Depth in ft (1:200)

Notes



May 23, 2018
07:10

07:15

07:33

07:50

08:02

08:06

08:10

5200

5220

5240

5260

5280

5300

5320

5238.38: Connection @
5238.38 ft

5274.00: Deviation Survey
5274.00 ft, Deviation 14.4
deg, Direction 255.5 deg

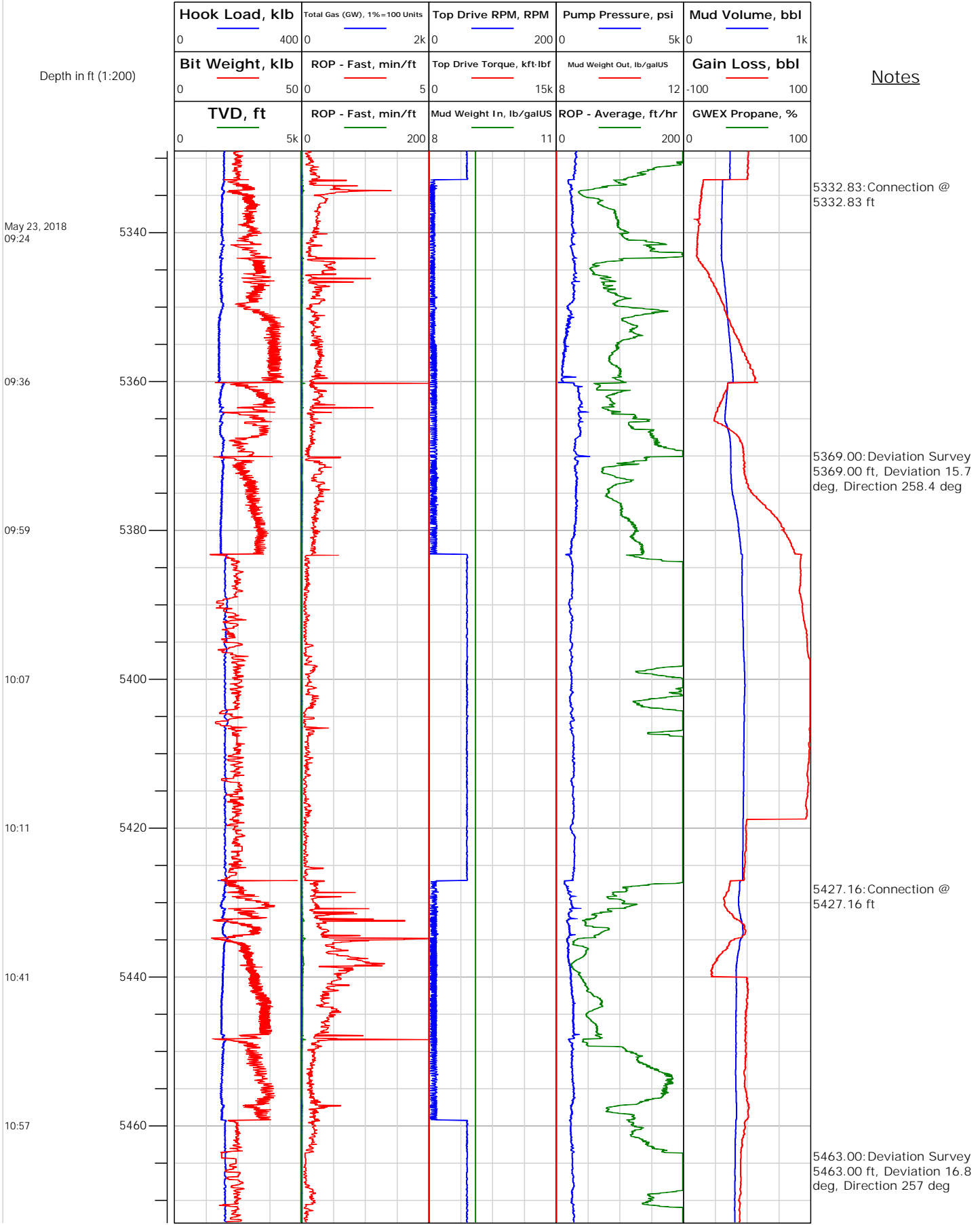


Electronic Drilling Recorder

Operator: Laramie Energy
 Contractor: Helmerich & Payne Drlg Co

Well Name: CC 0697-03-12W
 Rig: 522

Location:



May 23, 2018
09:24

09:36

09:59

10:07

10:11

10:41

10:57



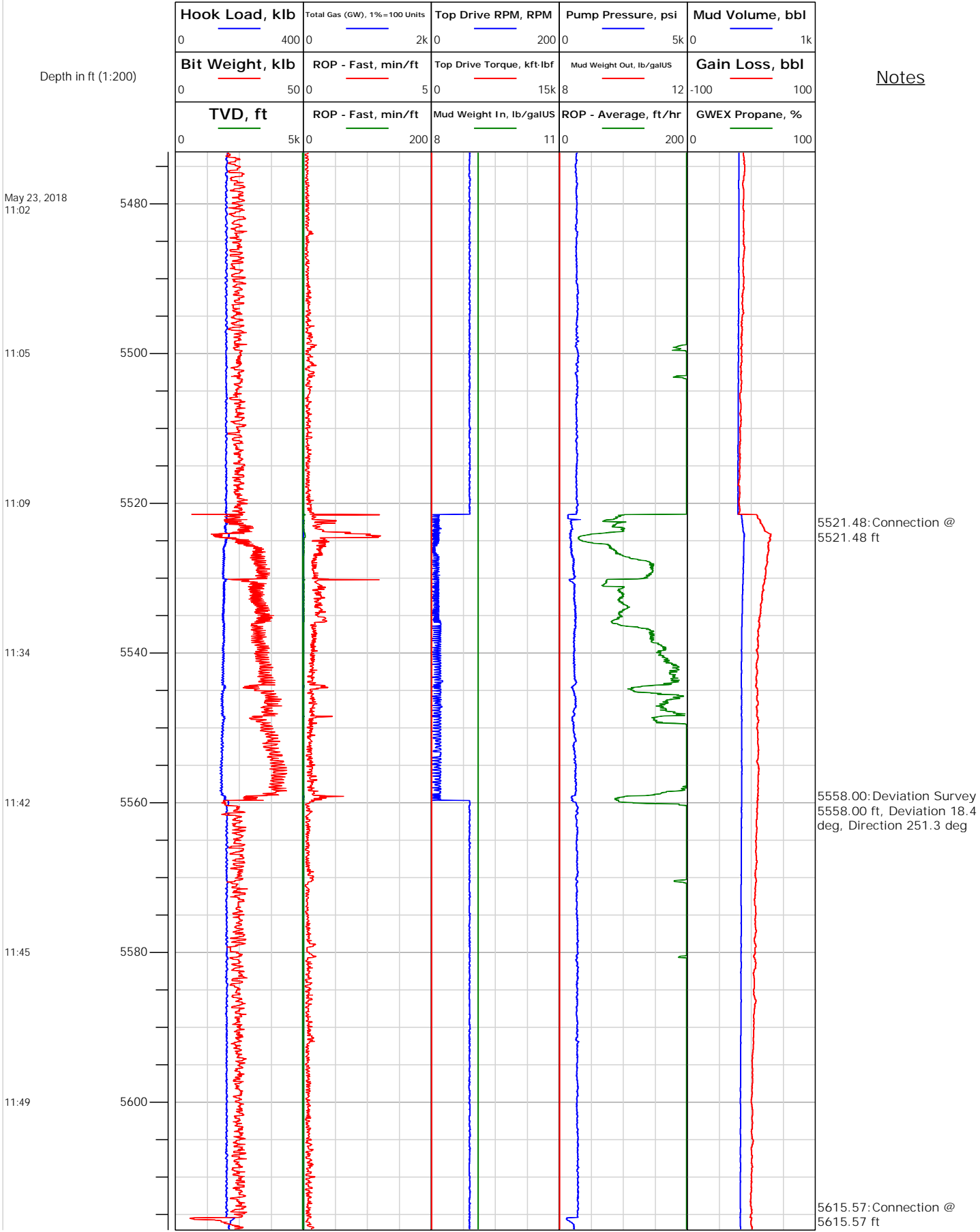
Electronic Drilling Recorder

Operator: Laramie Energy
 Contractor: Helmerich & Payne Drlg Co

Well Name: CC 0697-03-12W
 Rig: 522

Location:

Notes



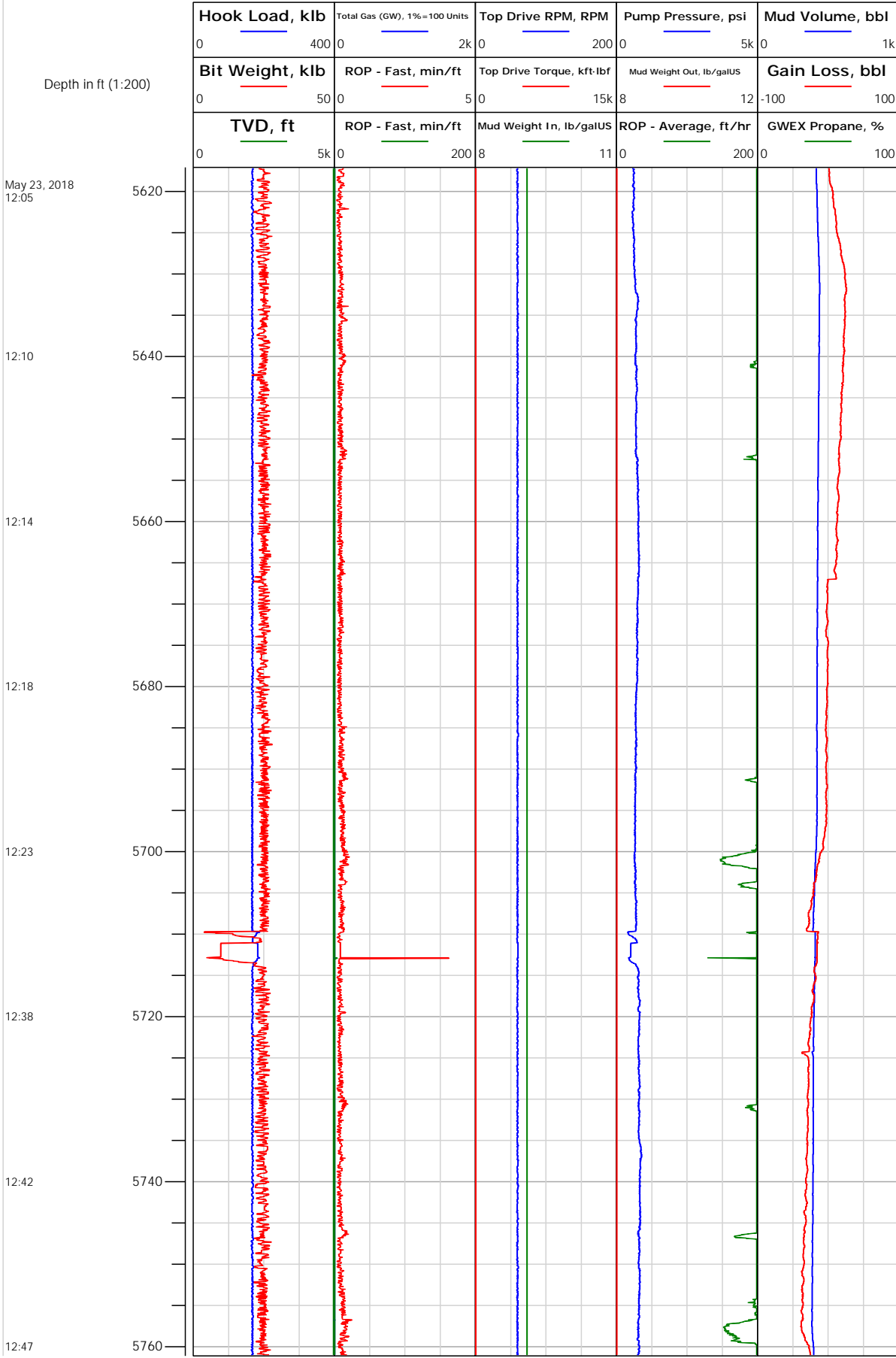


Electronic Drilling Recorder

Operator: Laramie Energy
 Contractor: Helmerich & Payne Drlg Co

Well Name: CC 0697-03-12W
 Rig: 522

Location:



Notes

5652.00: Deviation Survey
 5652.00 ft, Deviation 18.5 deg, Direction 248.4 deg

5709.78: Connection @
 5709.78 ft
 5711.15: Rig Floor set Bit
 Position from 5711.15 ft to
 5712.90 ft

5747.00: Deviation Survey
 5747.00 ft, Deviation 18.9 deg, Direction 246.4 deg

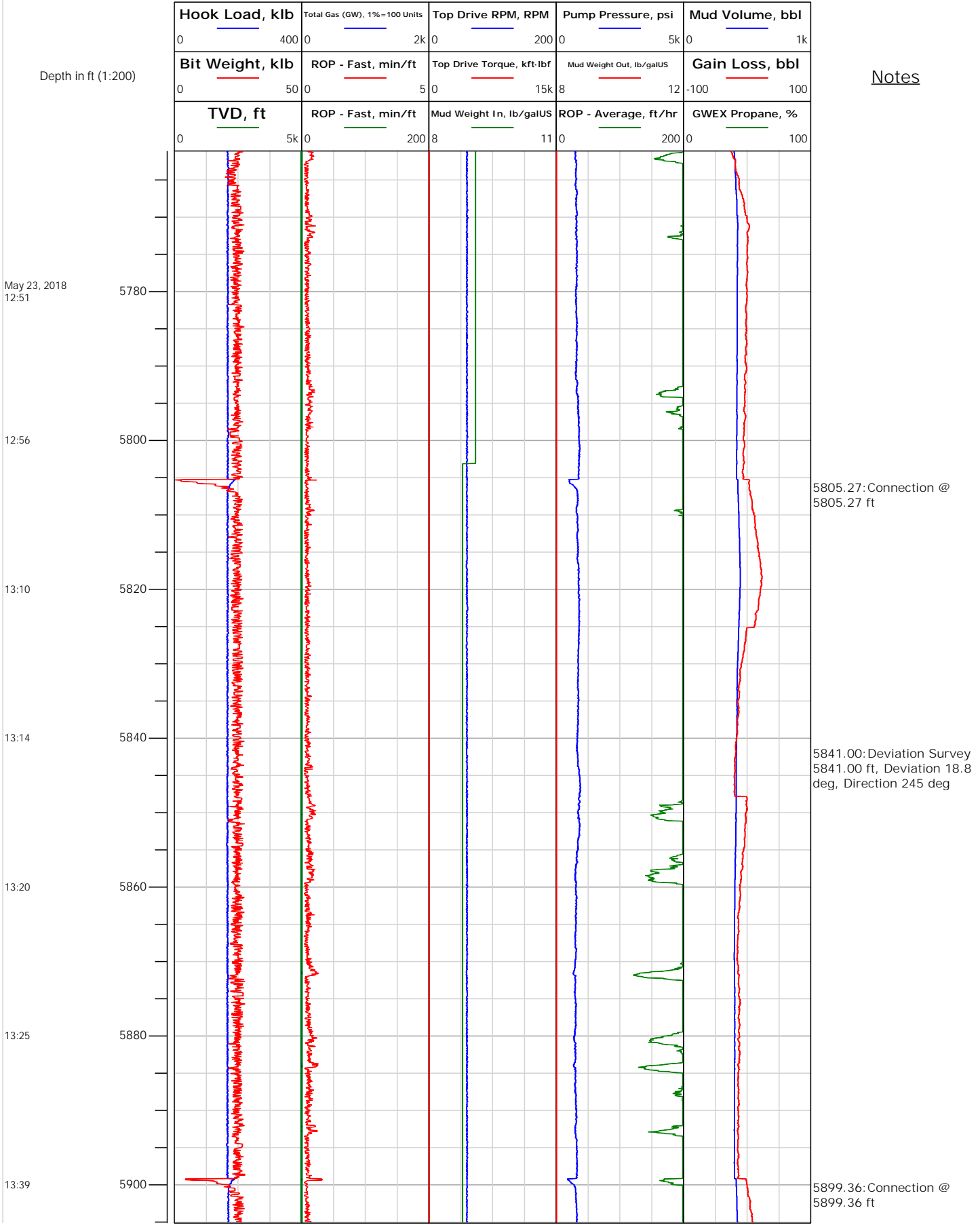


Electronic Drilling Recorder

Operator: Laramie Energy
 Contractor: Helmerich & Payne Drlg Co

Well Name: CC 0697-03-12W
 Rig: 522

Location:



Notes



Electronic Drilling Recorder

Operator: Laramie Energy
 Contractor: Helmerich & Payne Drlg Co

Well Name: CC 0697-03-12W
 Rig: 522

Location:

Depth in ft (1:200)

Notes

Hook Load, klb	Total Gas (GW), 1%=100 Units	Top Drive RPM, RPM	Pump Pressure, psi	Mud Volume, bbl
0 400	0 2k	0 200	0 5k	0 1k
Bit Weight, klb	ROP - Fast, min/ft	Top Drive Torque, kft-lbf	Mud Weight Out, lb/galUS	Gain Loss, bbl
0 50	0 5	0 15k	8 12	-100 100
TVD, ft	ROP - Fast, min/ft	Mud Weight In, lb/galUS	ROP - Average, ft/hr	GWEX Propane, %
0 5k	0 200	8 11	0 200	0 100

May 23, 2018
 13:44

13:49

13:54

13:59

14:11

14:15

14:19

5920
 5940
 5960
 5980
 6000
 6020
 6040

5935.00: Deviation Survey
 5935.00 ft, Deviation 19.2 deg, Direction 243.7 deg

5993.21: Connection @
 5993.21 ft

6029.00: Deviation Survey
 6029.00 ft, Deviation 19.8 deg, Direction 242.6 deg



Electronic Drilling Recorder

Operator: Laramie Energy
 Contractor: Helmerich & Payne Drlg Co

Well Name: CC 0697-03-12W
 Rig: 522

Location:

Depth in ft (1:200)

Notes

May 23, 2018
 14:23

14:28

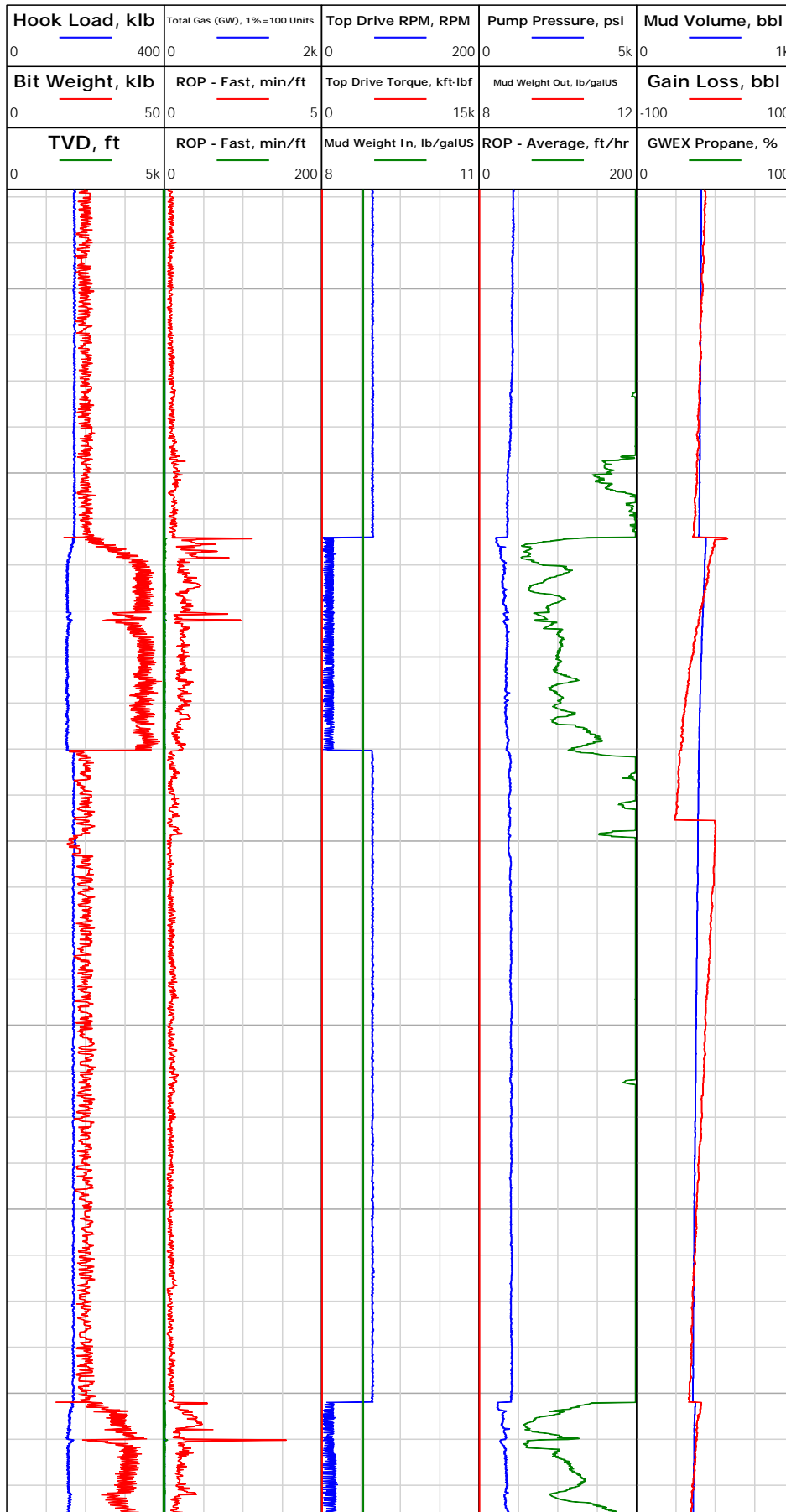
14:51

15:01

15:05

15:09

15:14



6087.06: Connection @
 6087.06 ft

6124.00: Deviation Survey
 6124.00 ft, Deviation 18.8
 deg, Direction 247.3 deg

6181.16: Connection @
 6181.16 ft

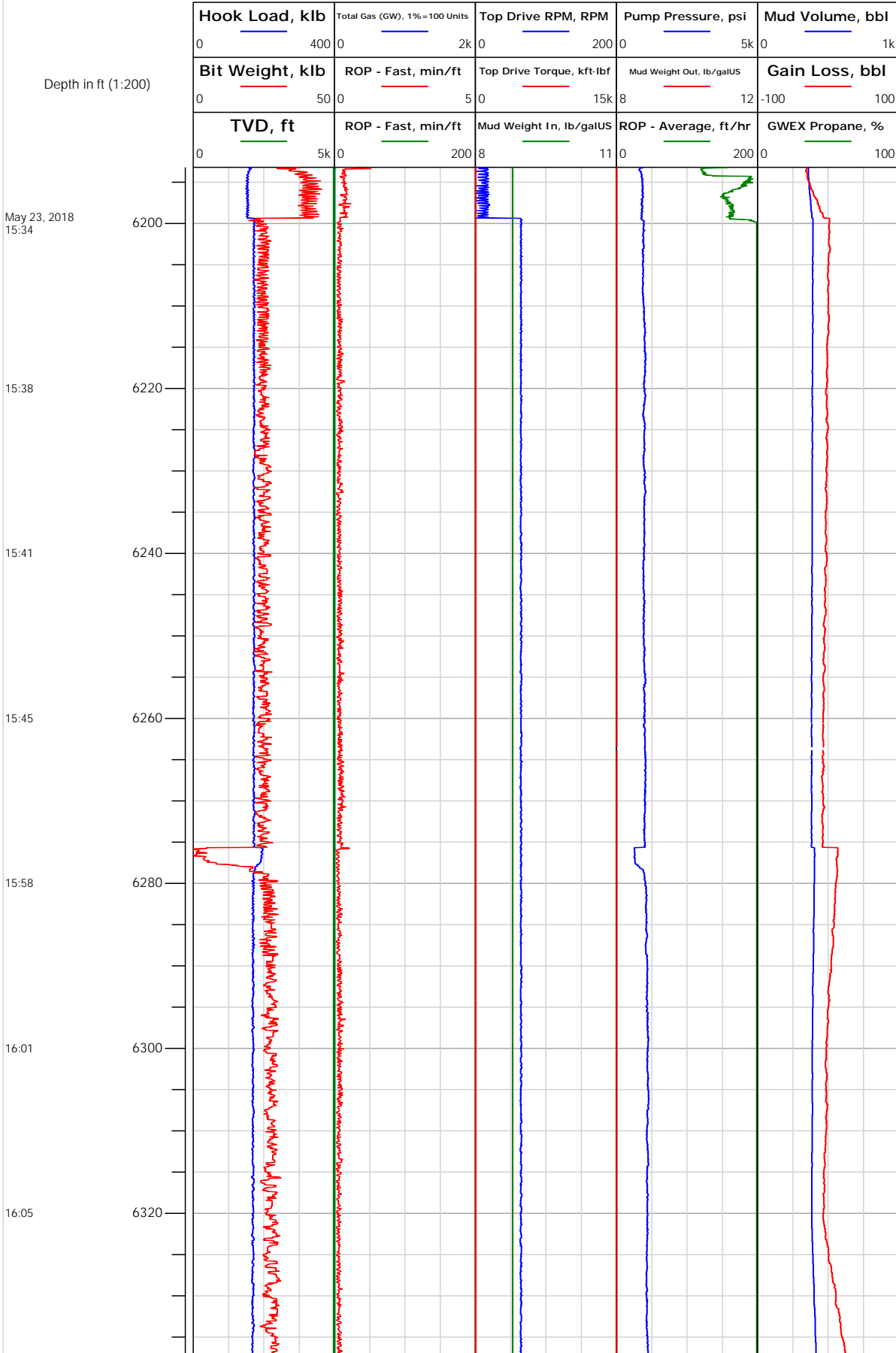


Electronic Drilling Recorder

Operator: Laramie Energy
 Contractor: Helmerich & Payne Drlg Co

Well Name: CC 0697-03-12W
 Rig: 522

Location:



Notes

6218.00: Deviation Survey
 6218.00 ft, Deviation 17.9 deg, Direction 253.4 deg

6275.72: Connection @
 6275.72 ft

6313.00: Deviation Survey
 6313.00 ft, Deviation 17.7 deg, Direction 252.6 deg

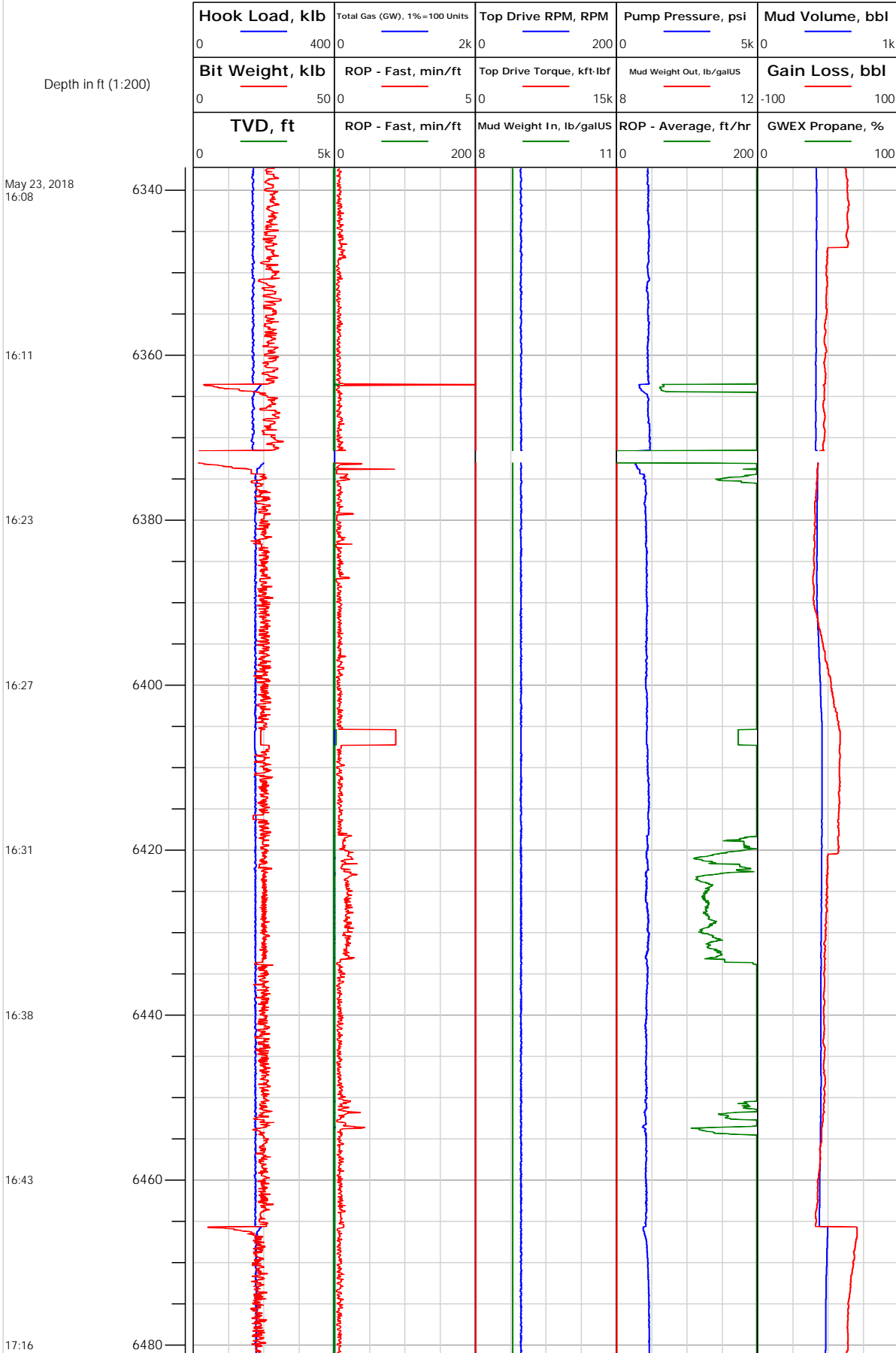


Electronic Drilling Recorder

Operator: Laramie Energy
 Contractor: Helmerich & Payne Drlg Co

Well Name: CC 0697-03-12W
 Rig: 522

Location:



Notes

6371.51: Rig Floor set Bit Position from 6280.00 ft to 6373.00 ft

6407.00: Deviation Survey
 6407.00 ft, Deviation 17.5 deg, Direction 251.9 deg

6465.78: Connection @ 6465.78 ft

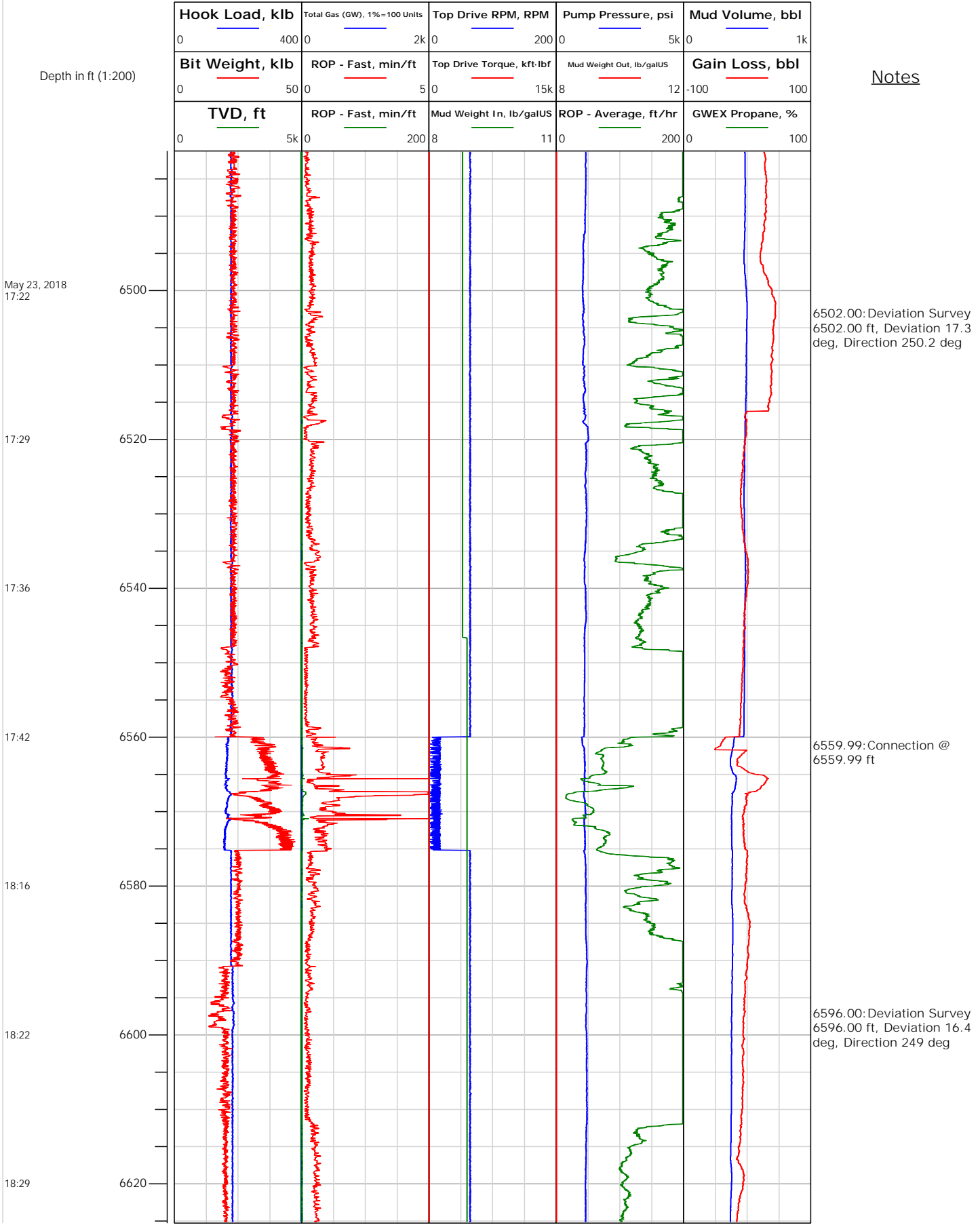


Electronic Drilling Recorder

Operator: Laramie Energy
 Contractor: Helmerich & Payne Drlg Co

Well Name: CC 0697-03-12W
 Rig: 522

Location:



Notes

6502.00: Deviation Survey
 6502.00 ft, Deviation 17.3 deg, Direction 250.2 deg

6559.99: Connection @
 6559.99 ft

6596.00: Deviation Survey
 6596.00 ft, Deviation 16.4 deg, Direction 249 deg



Electronic Drilling Recorder

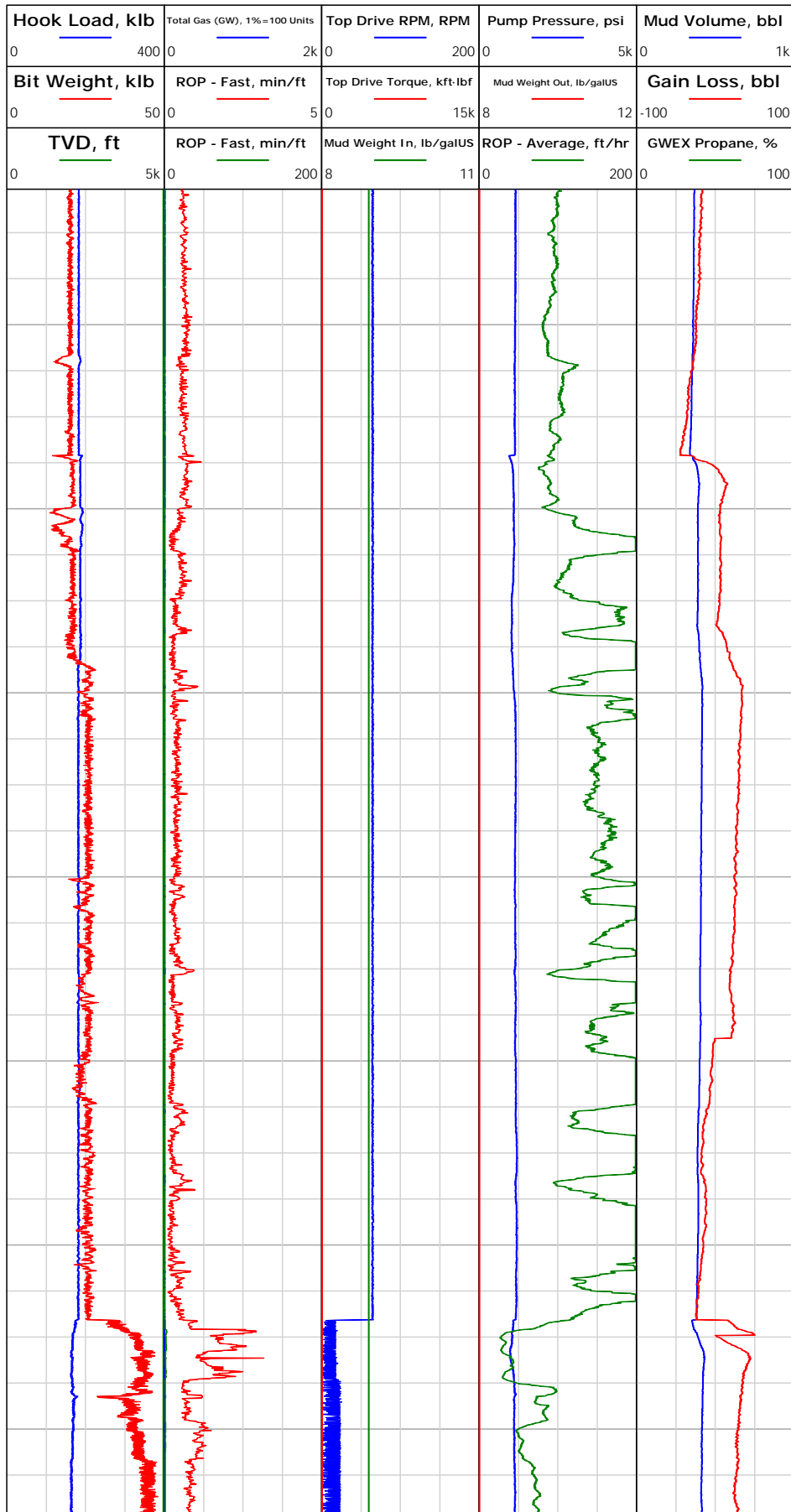
Operator: Laramie Energy
 Contractor: Helmerich & Payne Drlg Co

Well Name: CC 0697-03-12W
 Rig: 522

Location:

Depth in ft (1:200)

Notes



May 23, 2018
18:41

19:07

19:16

19:23

19:31

19:37

20:11

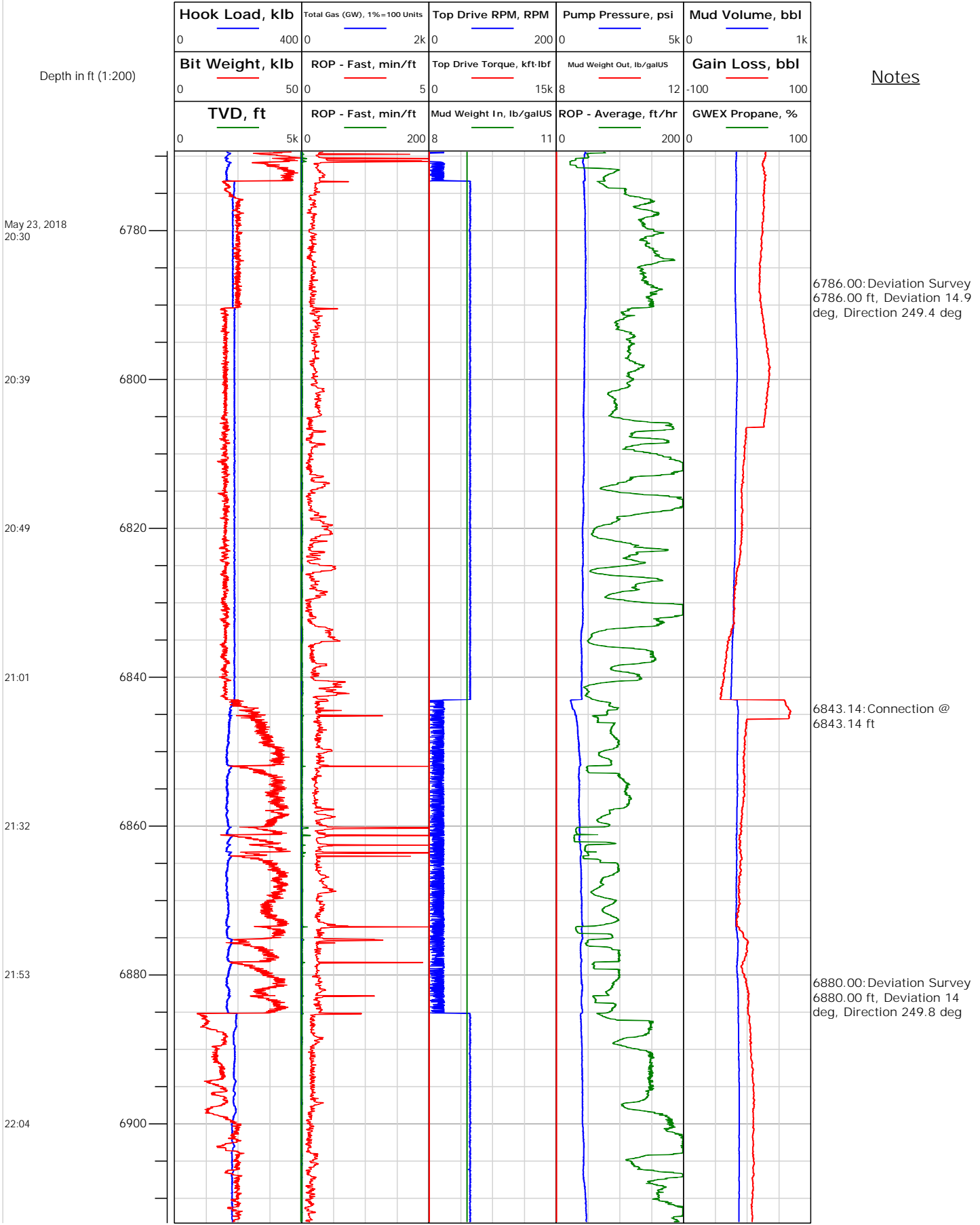


Electronic Drilling Recorder

Operator: Laramie Energy
 Contractor: Helmerich & Payne Drlg Co

Well Name: CC 0697-03-12W
 Rig: 522

Location:



Notes

6786.00: Deviation Survey
 6786.00 ft, Deviation 14.9 deg, Direction 249.4 deg

6843.14: Connection @
 6843.14 ft

6880.00: Deviation Survey
 6880.00 ft, Deviation 14 deg, Direction 249.8 deg



Electronic Drilling Recorder

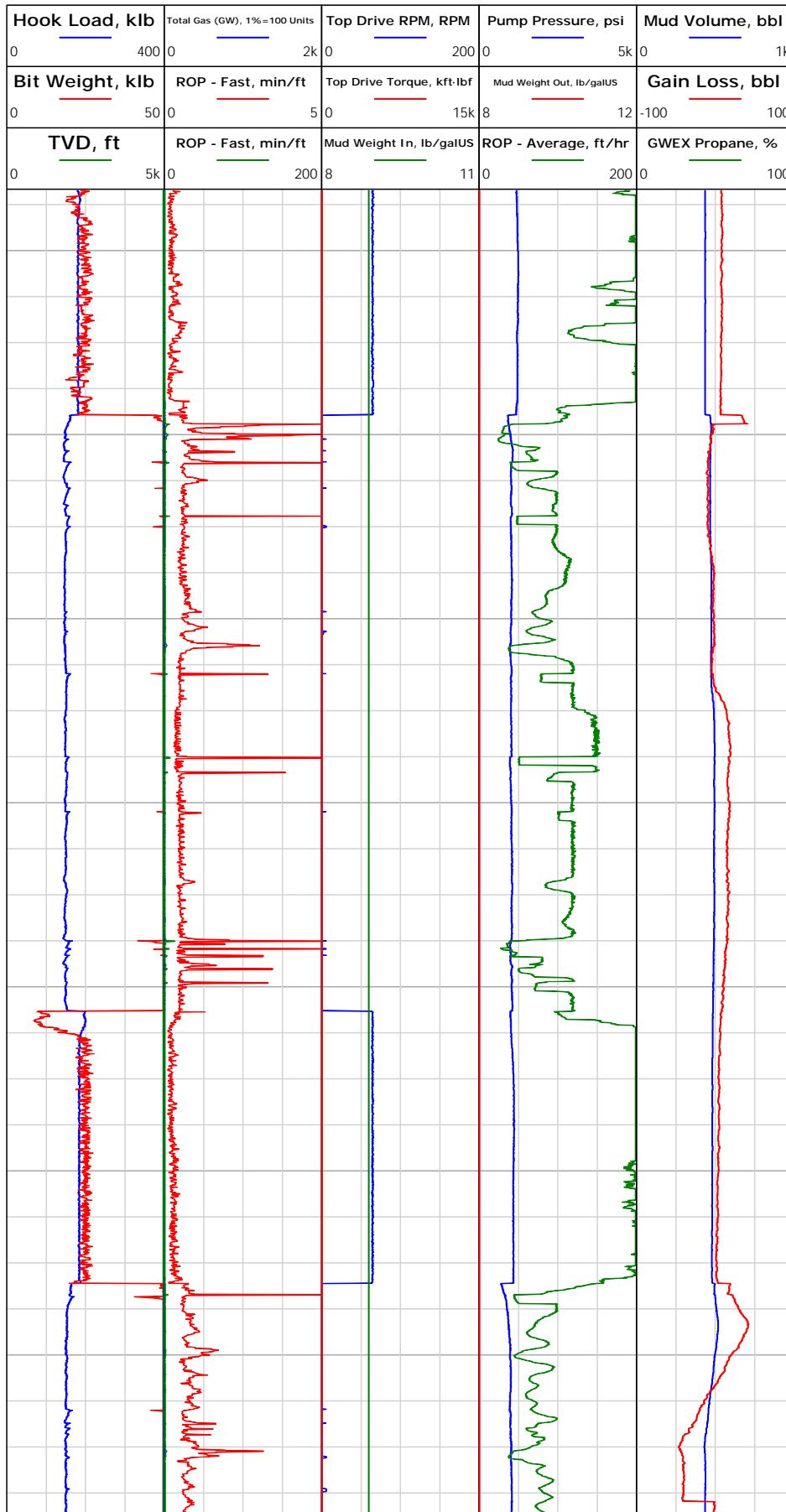
Operator: Laramie Energy
 Contractor: Helmerich & Payne Drlg Co

Well Name: CC 0697-03-12W
 Rig: 522

Location:

Depth in ft (1:200)

Notes



May 23, 2018
22:11

22:34

22:50

23:02

23:17

23:24

23:50

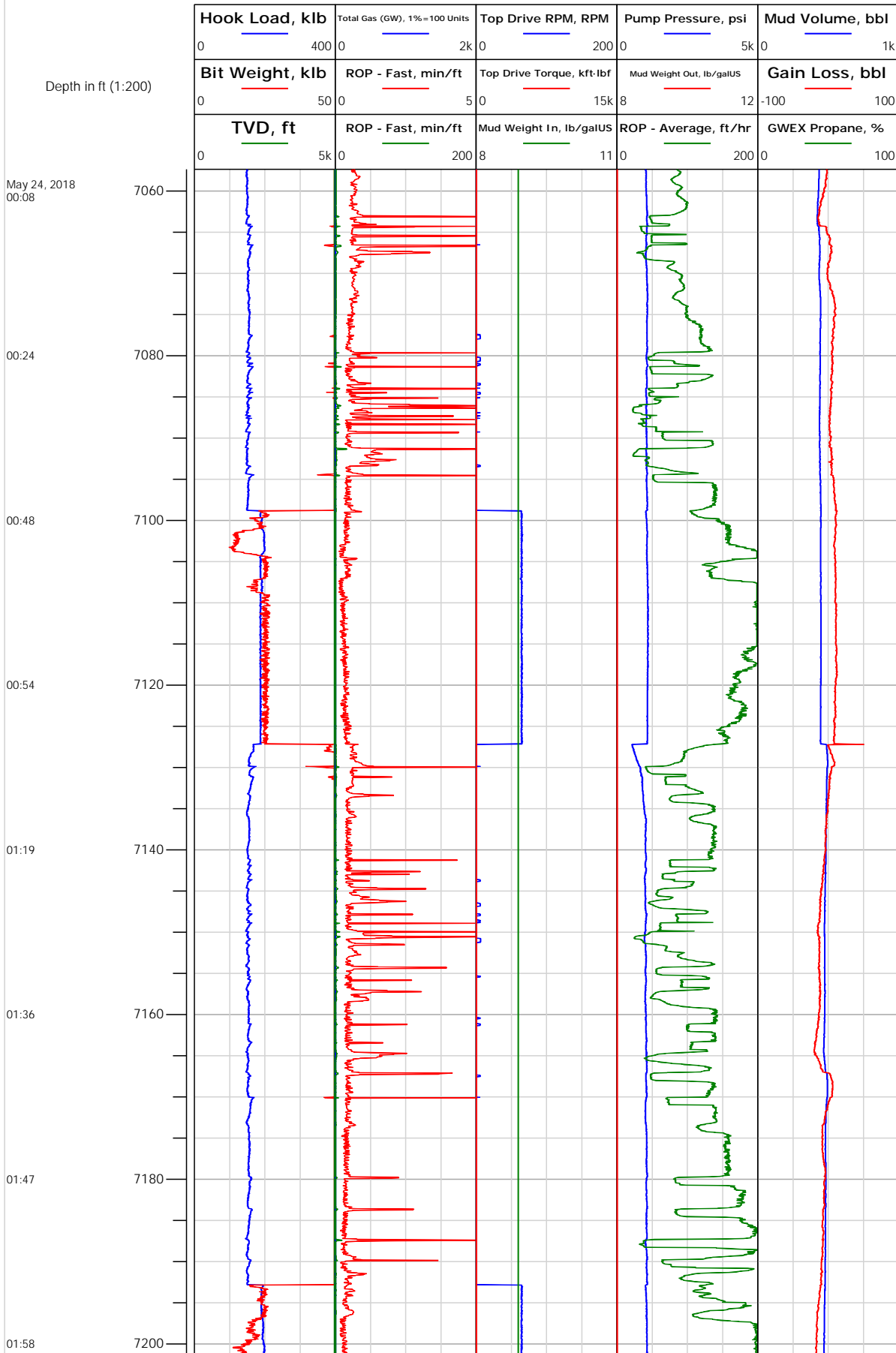


Electronic Drilling Recorder

Operator: Laramie Energy
Contractor: Helmerich & Payne Drlg Co

Well Name: CC 0697-03-12W
Rig: 522

Location:



Notes

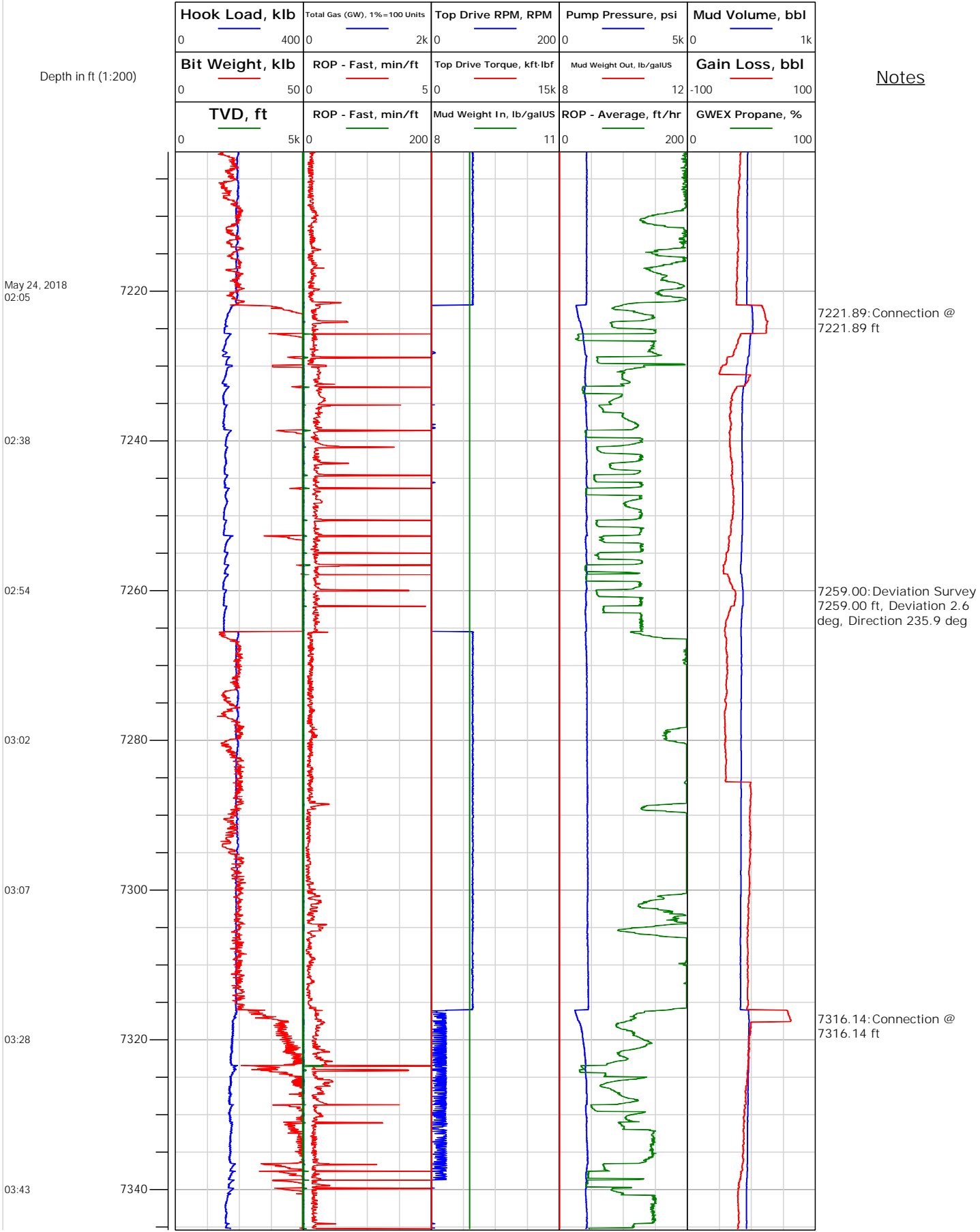


Electronic Drilling Recorder

Operator: Laramie Energy
 Contractor: Helmerich & Payne Drlg Co

Well Name: CC 0697-03-12W
 Rig: 522

Location:





Electronic Drilling Recorder

Operator: Laramie Energy
Contractor: Helmerich & Payne Drlg Co

Well Name: CC 0697-03-12W
Rig: 522

Location:

Depth in ft (1:200)

Hook Load, klb	Total Gas (GW), 1%=100 Units	Top Drive RPM, RPM	Pump Pressure, psi	Mud Volume, bbl
0 400	0 2k	0 200	0 5k	0 1k
Bit Weight, klb	ROP - Fast, min/ft	Top Drive Torque, kft-lbf	Mud Weight Out, lb/galUS	Gain Loss, bbl
0 50	0 5	0 15k	8 12	-100 100
TVD, ft	ROP - Fast, min/ft	Mud Weight In, lb/galUS	ROP - Average, ft/hr	GWEX Propane, %
0 5k	0 200	8 11	0 200	0 100

Notes

May 24, 2018
03:56

04:07

04:20

04:46

05:03

05:21

05:31

7360

7380

7400

7420

7440

7460

7480

7353.00: Deviation Survey
7353.00 ft, Deviation 2.5
deg, Direction 211.6 deg

7410.72: Connection @
7410.72 ft

7448.00: Deviation Survey
7448.00 ft, Deviation 1.6
deg, Direction 169.8 deg

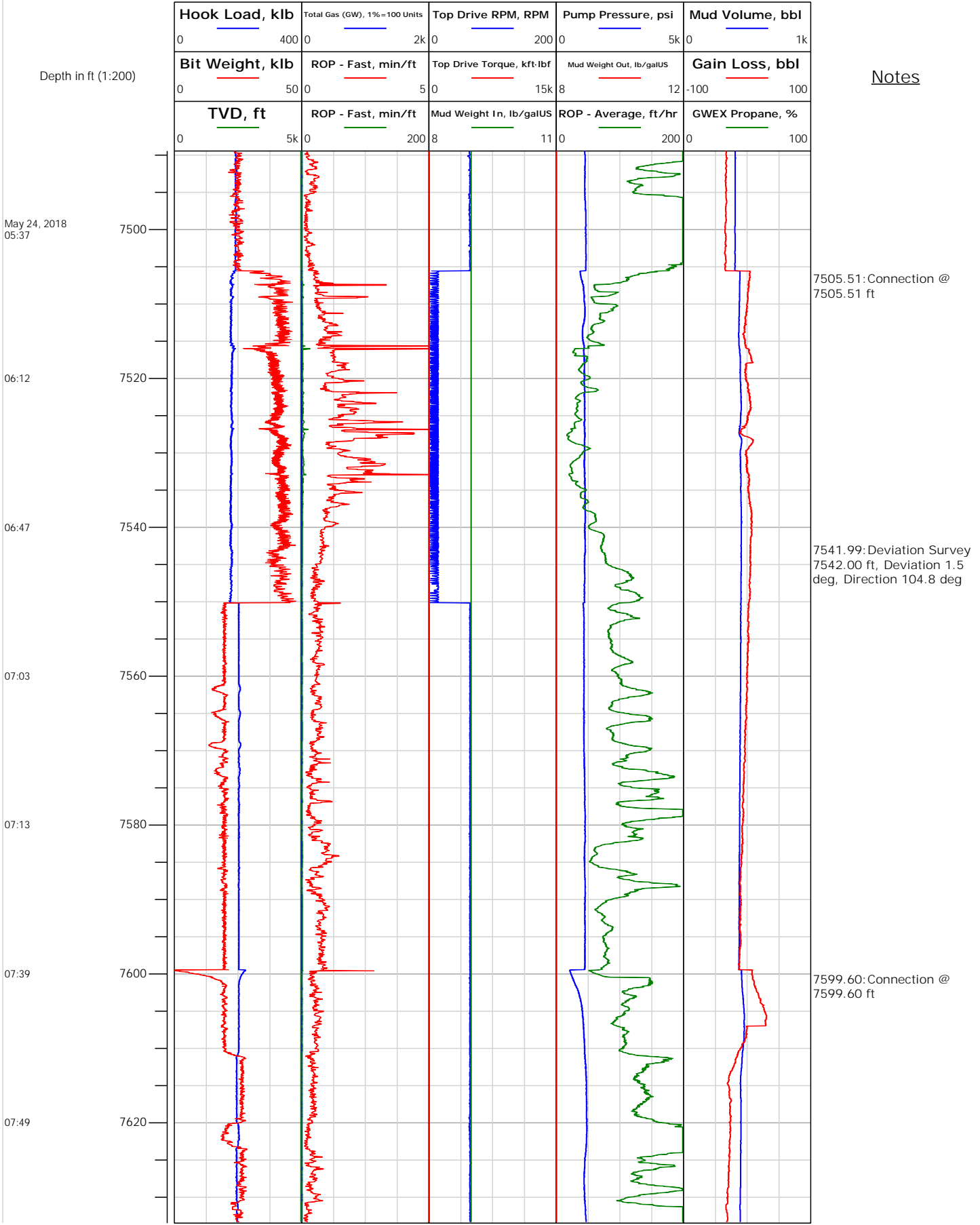


Electronic Drilling Recorder

Operator: Laramie Energy
 Contractor: Helmerich & Payne Drlg Co

Well Name: CC 0697-03-12W
 Rig: 522

Location:



Notes

May 24, 2018
05:37

06:12

06:47

07:03

07:13

07:39

07:49

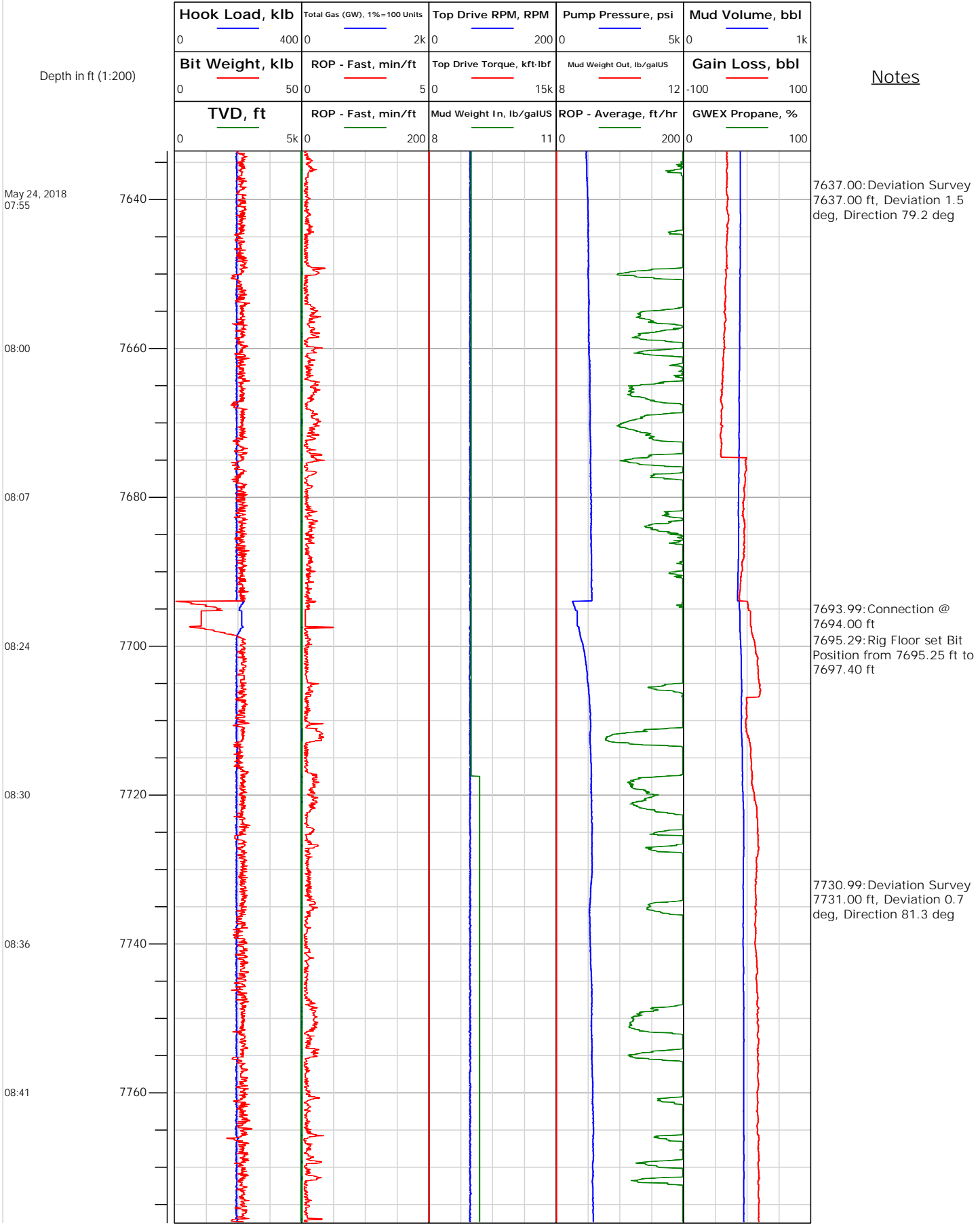


Electronic Drilling Recorder

Operator: Laramie Energy
 Contractor: Helmerich & Payne Drlg Co

Well Name: CC 0697-03-12W
 Rig: 522

Location:



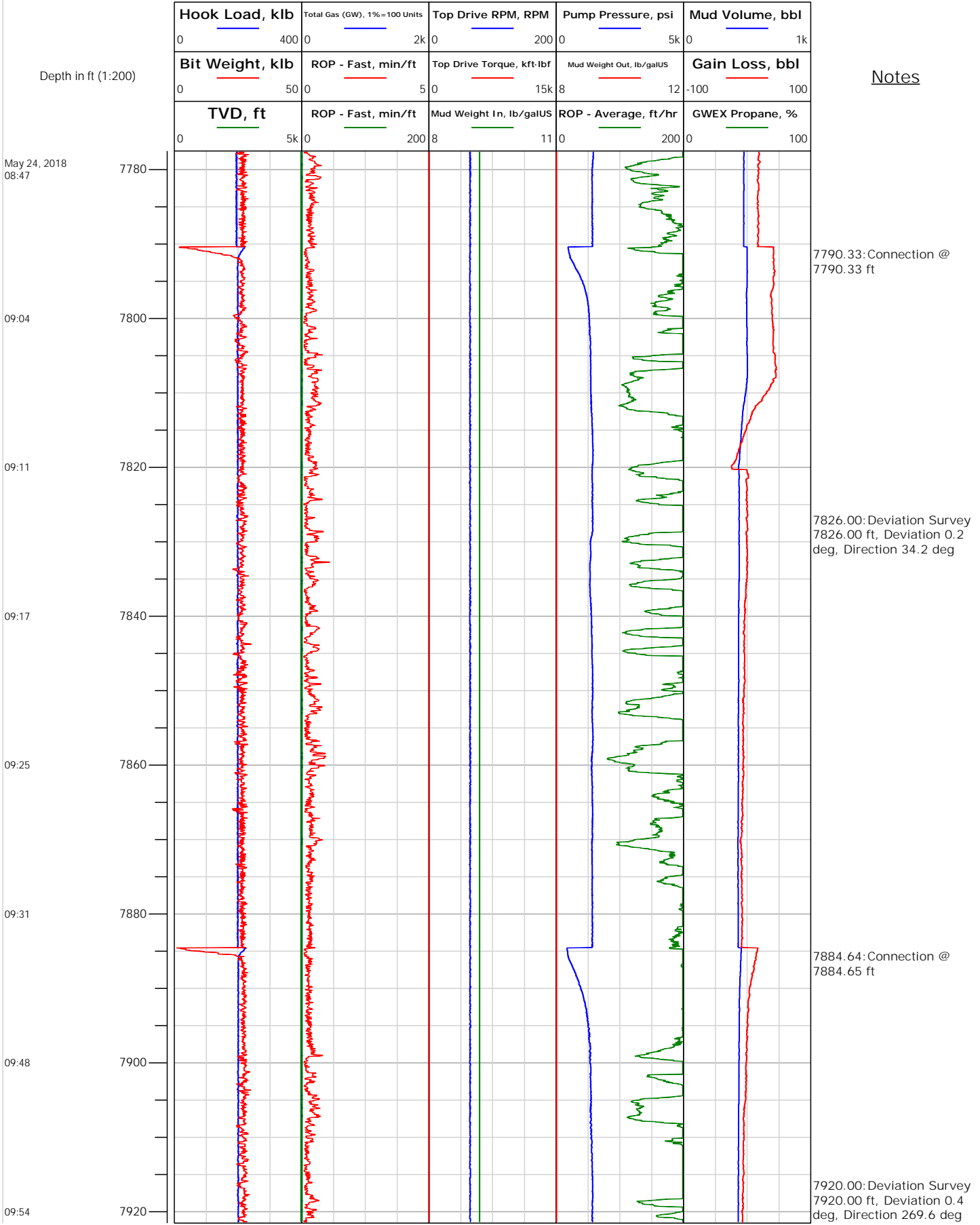


Electronic Drilling Recorder

Operator: Laramie Energy
 Contractor: Helmerich & Payne Drlg Co

Well Name: CC 0697-03-12W
 Rig: 522

Location:



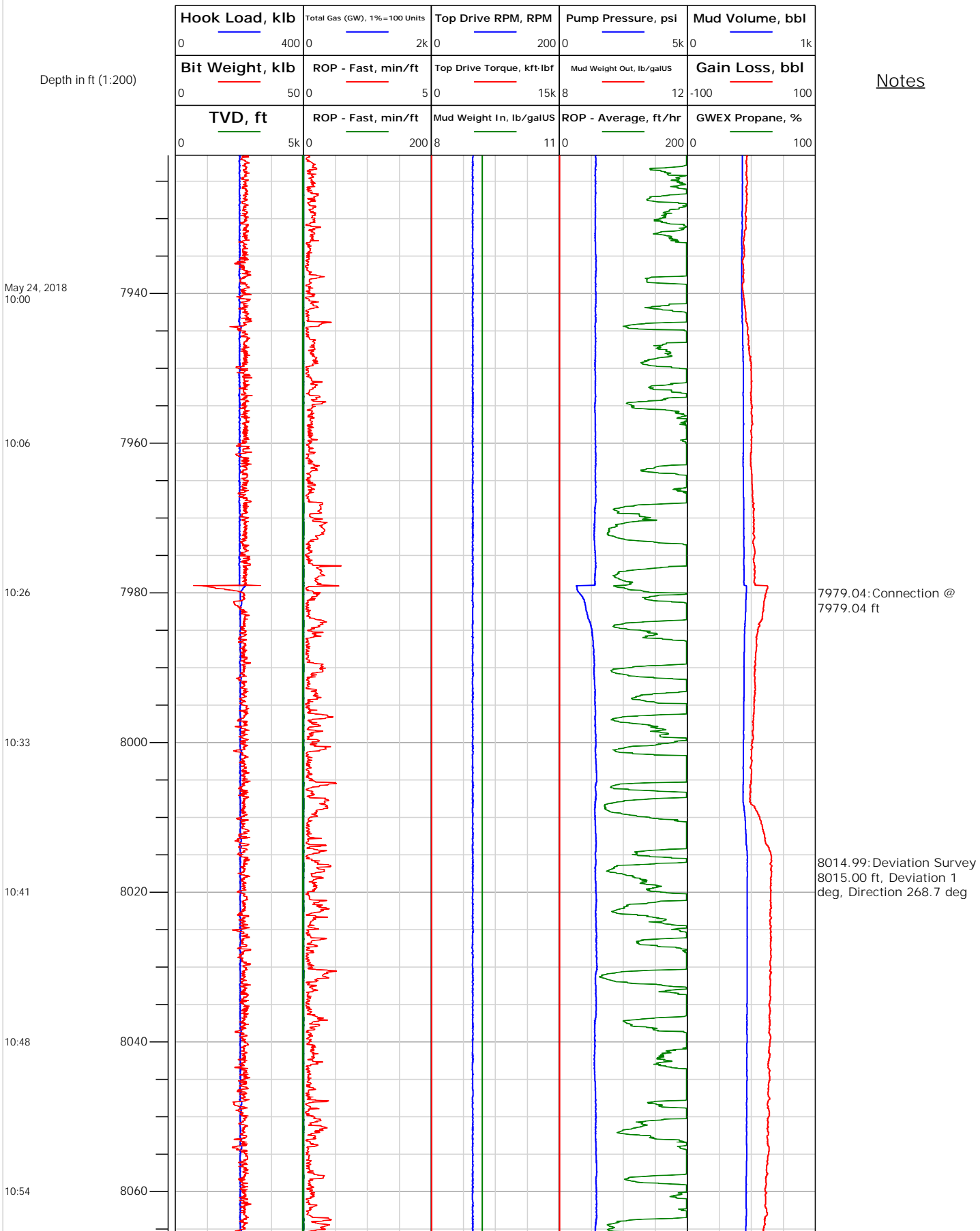


Electronic Drilling Recorder

Operator: Laramie Energy
 Contractor: Helmerich & Payne Drlg Co

Well Name: CC 0697-03-12W
 Rig: 522

Location:



Notes

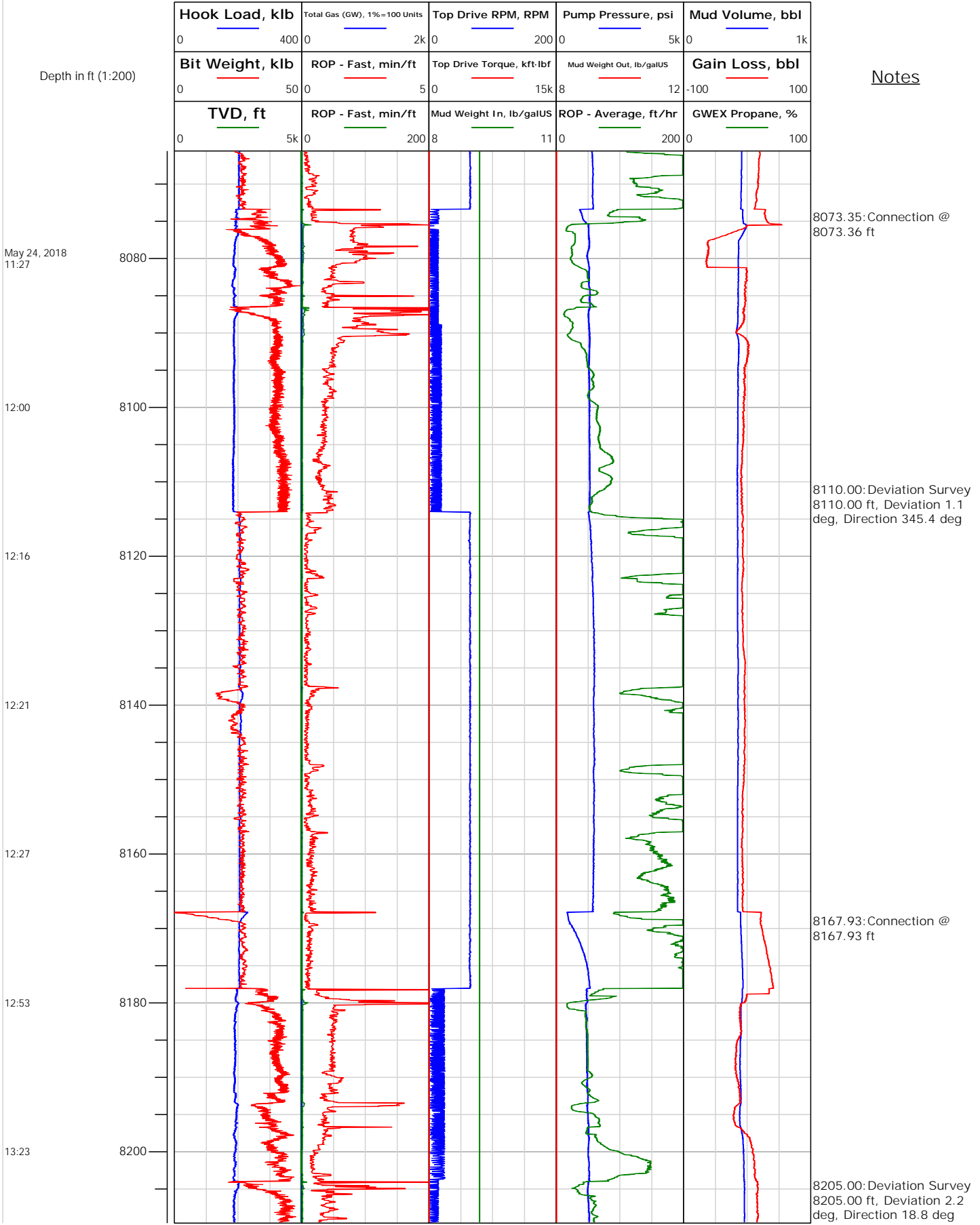


Electronic Drilling Recorder

Operator: Laramie Energy
Contractor: Helmerich & Payne Drlg Co

Well Name: CC 0697-03-12W
Rig: 522

Location:



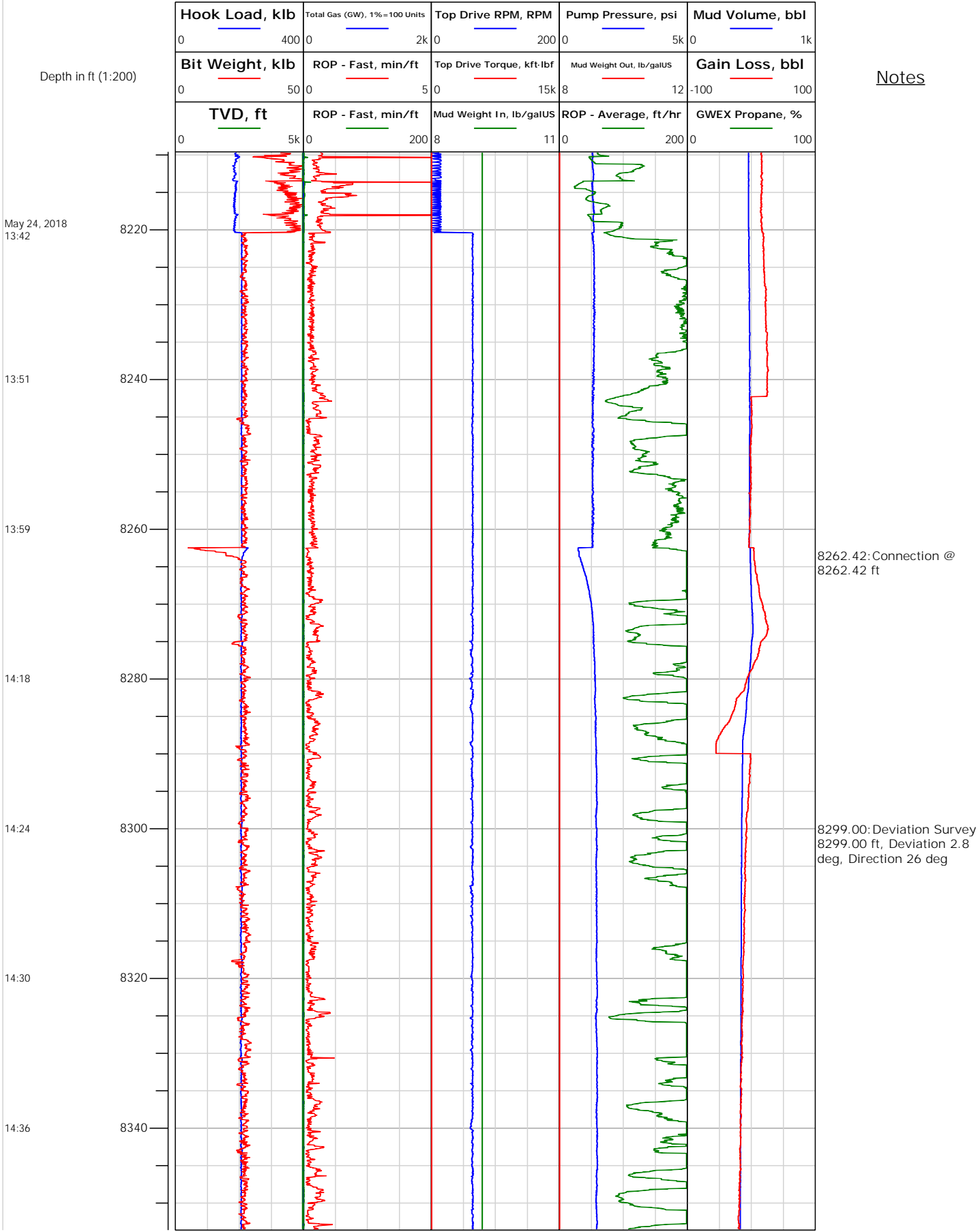


Electronic Drilling Recorder

Operator: Laramie Energy
 Contractor: Helmerich & Payne Drlg Co

Well Name: CC 0697-03-12W
 Rig: 522

Location:





Electronic Drilling Recorder

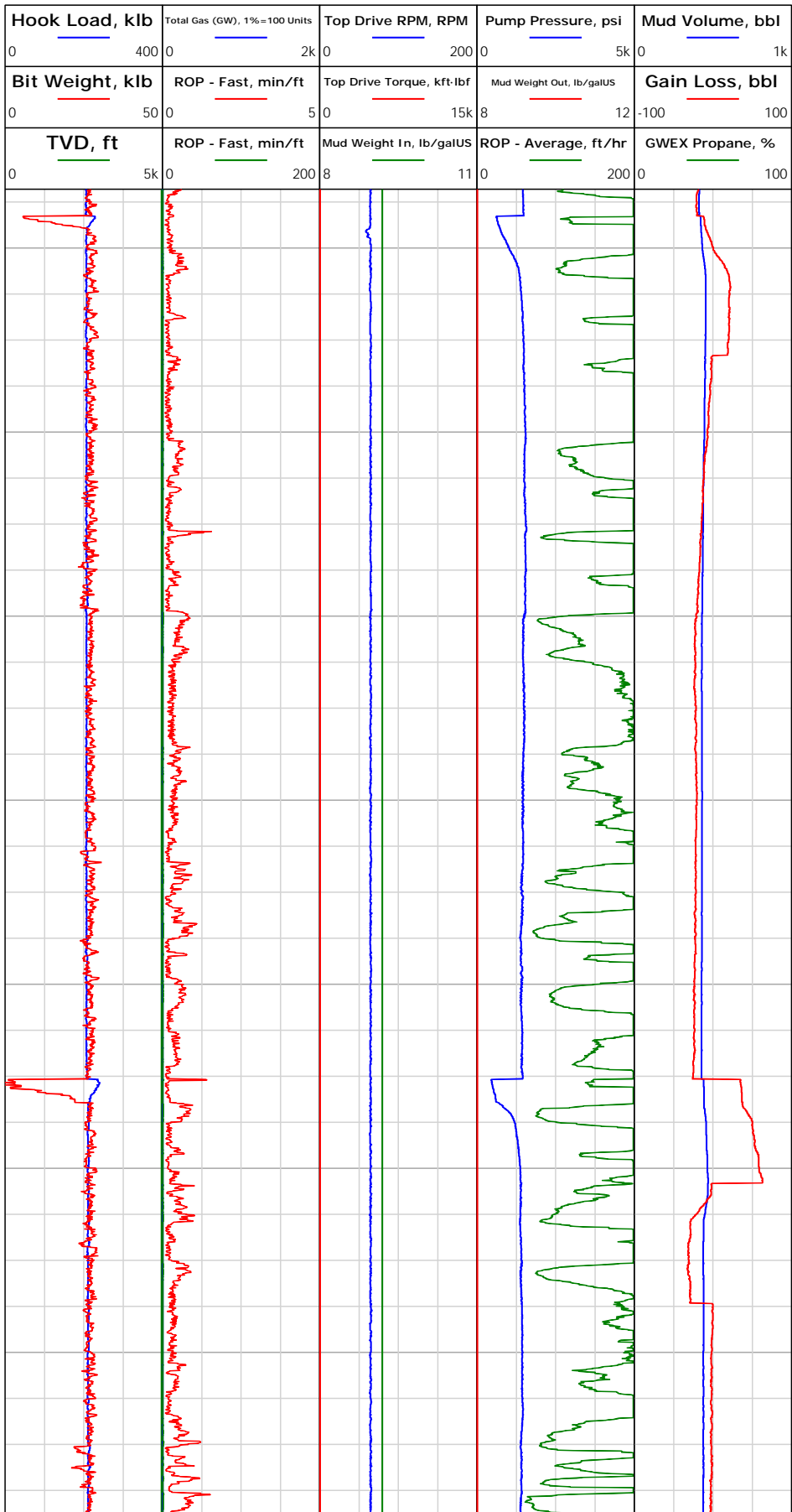
Operator: Laramie Energy
 Contractor: Helmerich & Payne Drlg Co

Well Name: CC 0697-03-12W
 Rig: 522

Location:

Depth in ft (1:200)

Notes



May 24, 2018
14:54

15:00

15:06

15:14

15:21

15:41

15:49

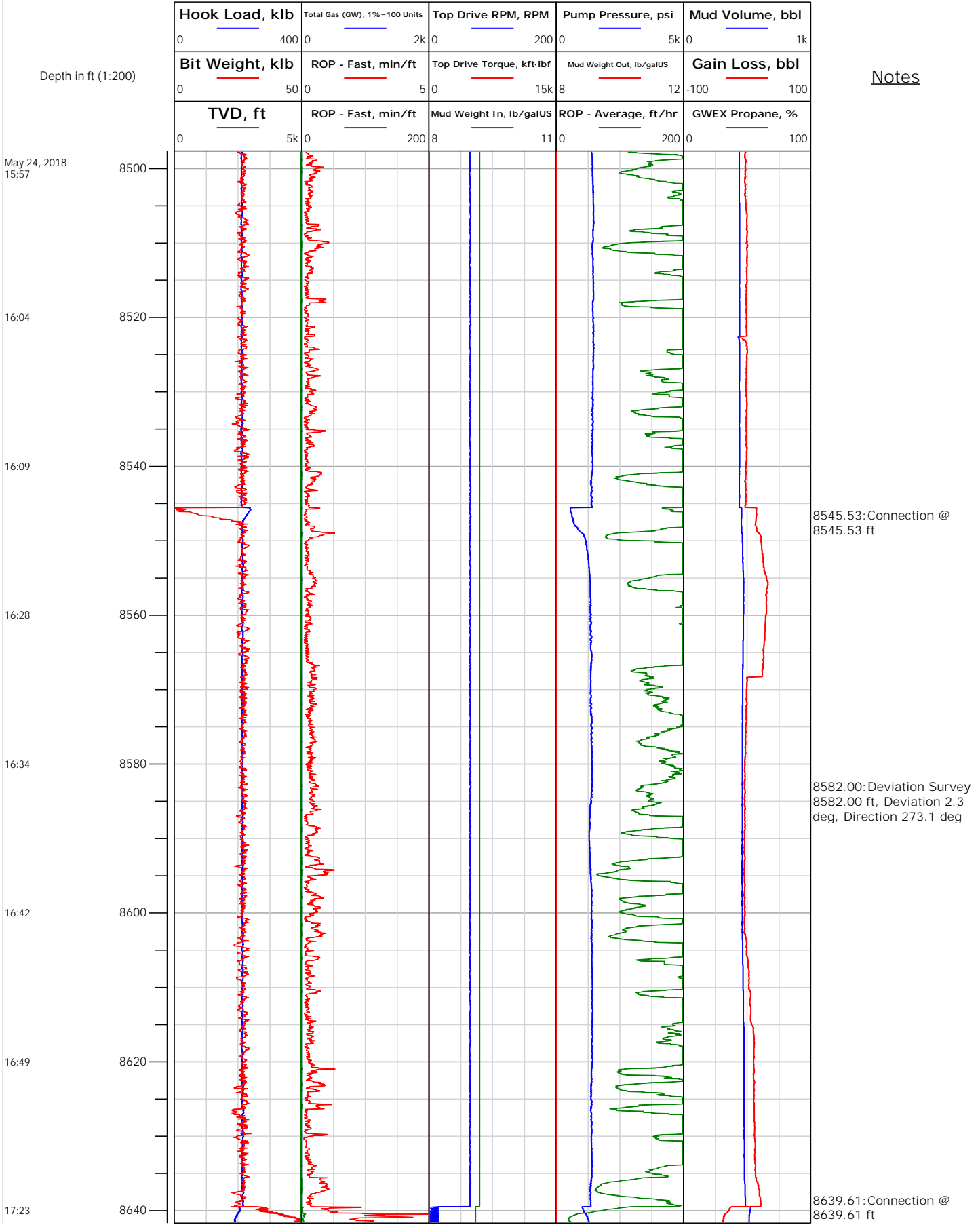


Electronic Drilling Recorder

Operator: Laramie Energy
 Contractor: Helmerich & Payne Drlg Co

Well Name: CC 0697-03-12W
 Rig: 522

Location:



Notes

8545.53: Connection @
8545.53 ft

8582.00: Deviation Survey
8582.00 ft, Deviation 2.3
deg, Direction 273.1 deg

8639.61: Connection @
8639.61 ft

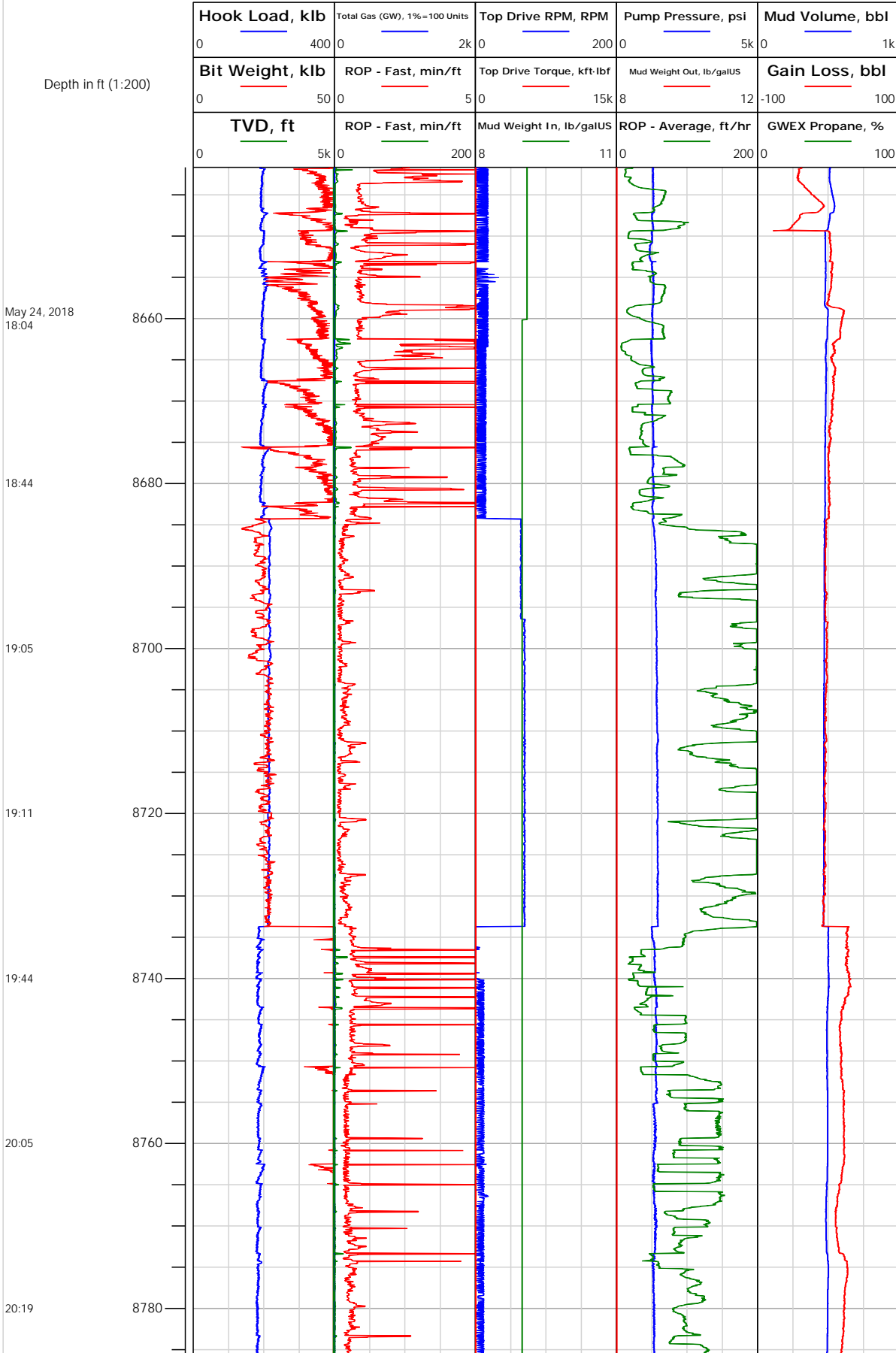


Electronic Drilling Recorder

Operator: Laramie Energy
 Contractor: Helmerich & Payne Drlg Co

Well Name: CC 0697-03-12W
 Rig: 522

Location:



Notes

8676.00: Deviation Survey
 8676.00 ft, Deviation 2.5 deg, Direction 255.2 deg

8733.80: Connection @
 8733.80 ft

8770.00: Deviation Survey
 8770.00 ft, Deviation 2.1 deg, Direction 223.1 deg
 8770.00: Deviation Survey
 8770.00 ft, Deviation 2.1 deg, Direction 223.1 deg

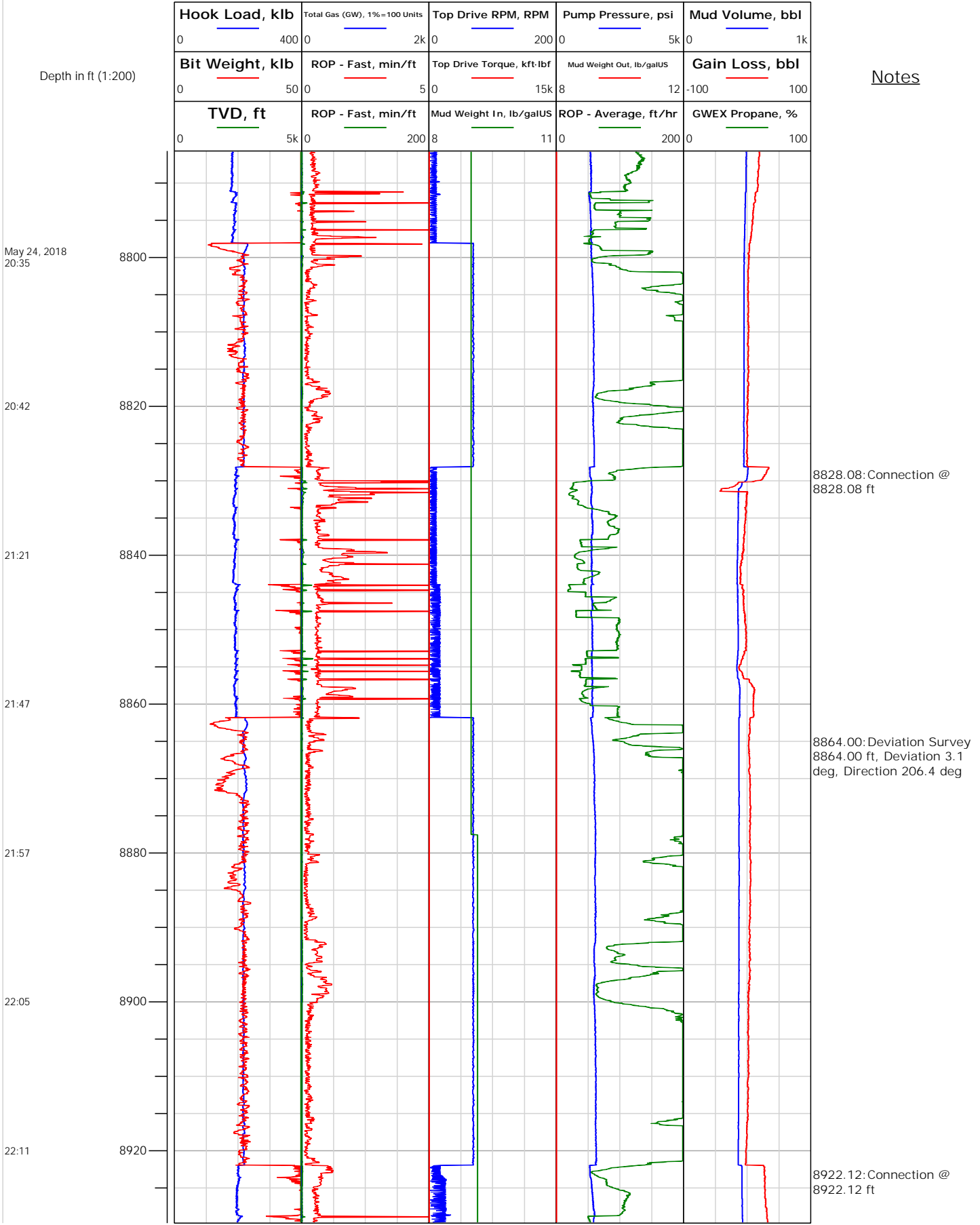


Electronic Drilling Recorder

Operator: Laramie Energy
Contractor: Helmerich & Payne Drlg Co

Well Name: CC 0697-03-12W
Rig: 522

Location:



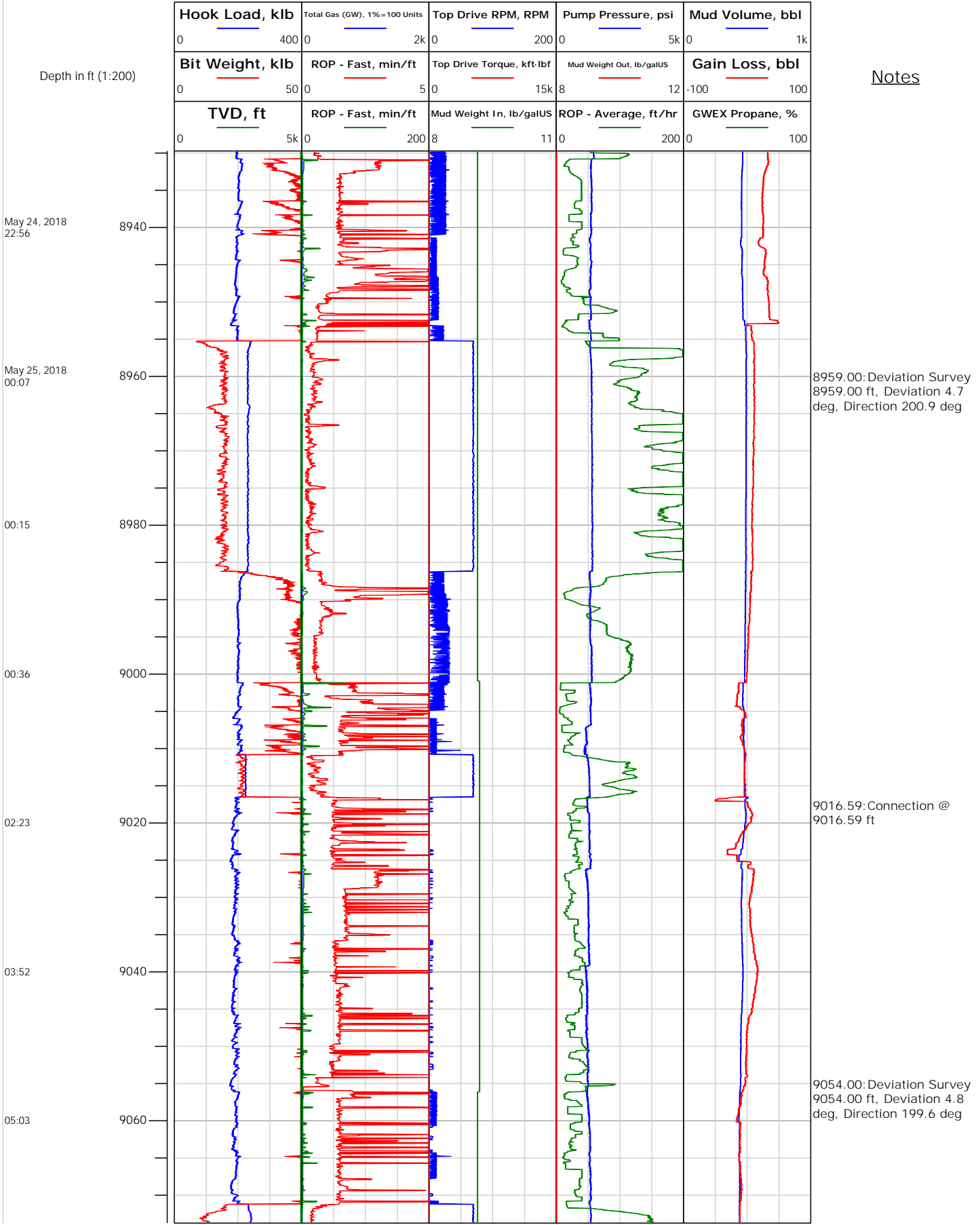


Electronic Drilling Recorder

Operator: Laramie Energy
Contractor: Helmerich & Payne Drlg Co

Well Name: CC 0697-03-12W
Rig: 522

Location:



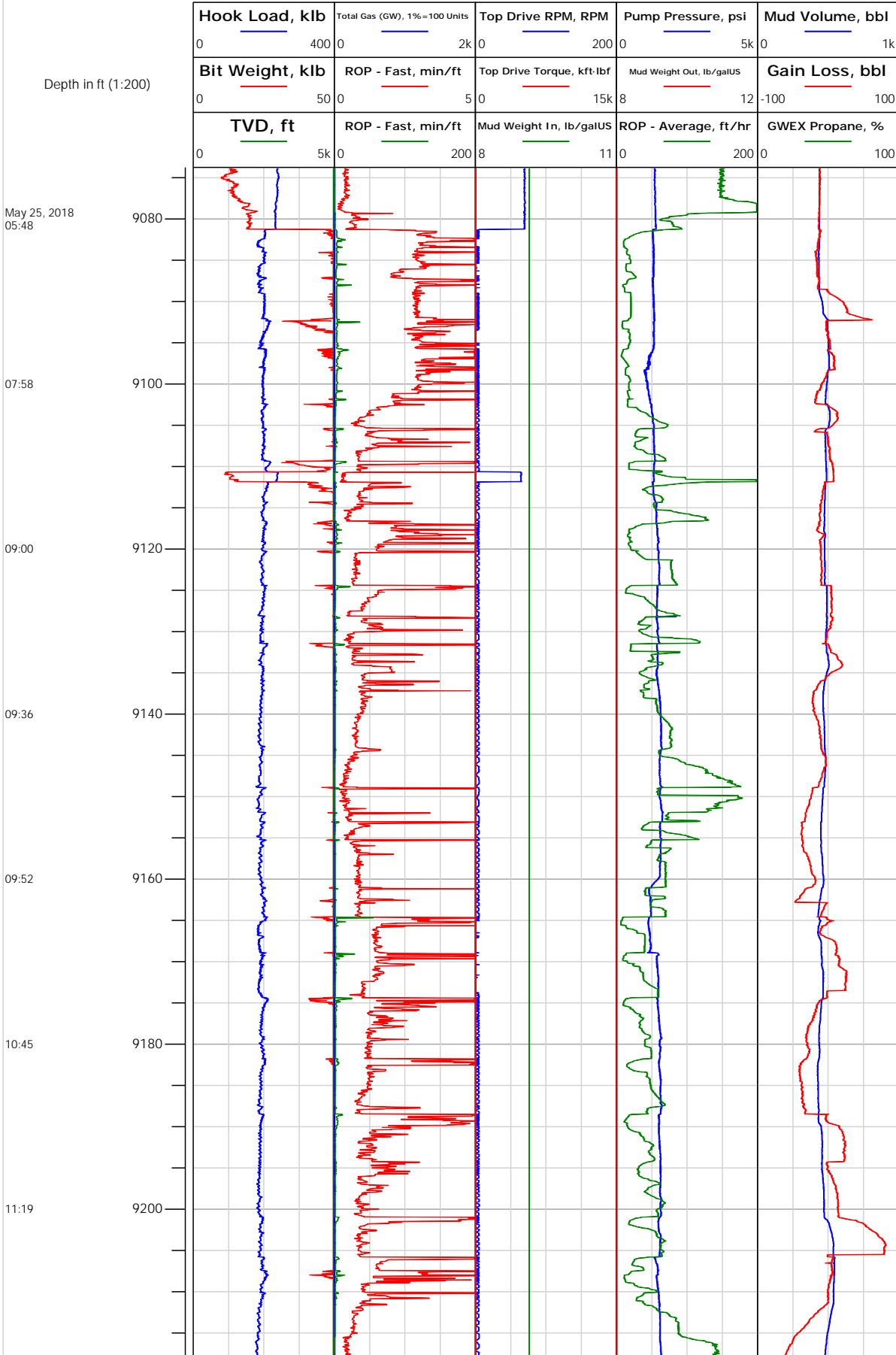


Electronic Drilling Recorder

Operator: Laramie Energy
 Contractor: Helmerich & Payne Drlg Co

Well Name: CC 0697-03-12W
 Rig: 522

Location:



Notes

9111.84: Connection @
 9111.85 ft

9148.00: Deviation Survey
 9148.00 ft, Deviation 3.9
 deg, Direction 198.3 deg

9205.96: Connection @
 9205.96 ft

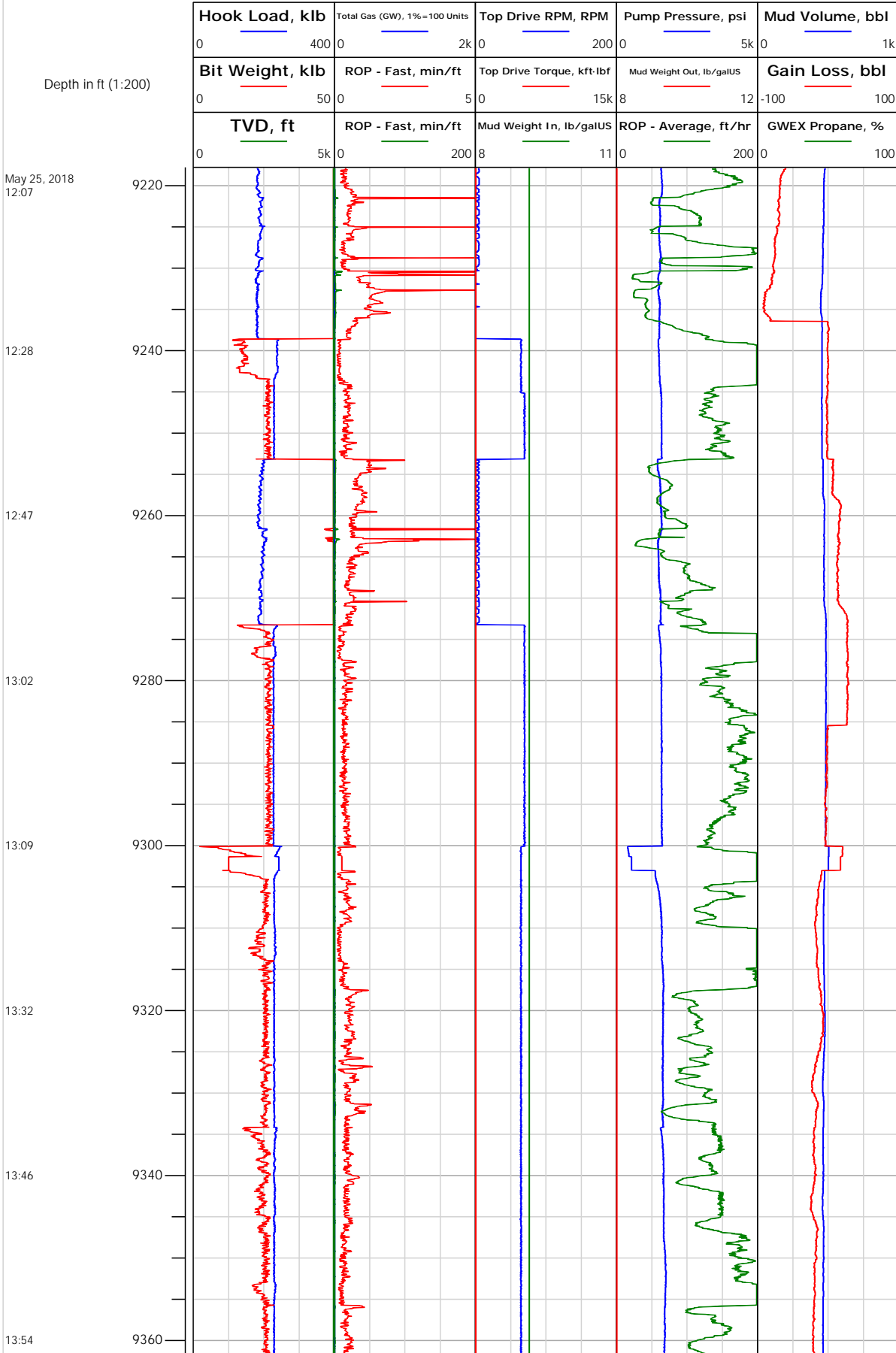


Electronic Drilling Recorder

Operator: Laramie Energy
 Contractor: Helmerich & Payne Drlg Co

Well Name: CC 0697-03-12W
 Rig: 522

Location:



Notes

9243.00: Deviation Survey
 9243.00 ft, Deviation 1.8 deg, Direction 210 deg

9300.13: Connection @
 9300.13 ft
 9301.42: Rig Floor set Bit
 Position from 9301.42 ft to
 9303.10 ft

9337.00: Deviation Survey
 9337.00 ft, Deviation 2 deg, Direction 206.5 deg



Electronic Drilling Recorder

Operator: Laramie Energy
 Contractor: Helmerich & Payne Drlg Co

Well Name: CC 0697-03-12W
 Rig: 522

Location:

Depth in ft (1:200)

Notes

Hook Load, klb	Total Gas (GW), 1%=100 Units	Top Drive RPM, RPM	Pump Pressure, psi	Mud Volume, bbl
0 400	0 2k	0 200	0 5k	0 1k
Bit Weight, klb	ROP - Fast, min/ft	Top Drive Torque, kft-lbf	Mud Weight Out, lb/galUS	Gain Loss, bbl
0 50	0 5	0 15k	8 12	-100 100
TVD, ft	ROP - Fast, min/ft	Mud Weight In, lb/galUS	ROP - Average, ft/hr	GWEX Propane, %
0 5k	0 200	8 11	0 200	0 100

May 25, 2018
 14:03

14:27

14:37

14:48

14:56

15:02

15:26

9380
 9400
 9420
 9440
 9460
 9480
 9500

9396.04: Connection @
 9396.04 ft

9431.00: Deviation Survey
 9431.00 ft, Deviation 2.5
 deg, Direction 223.2 deg

9490.08: Connection @
 9490.08 ft

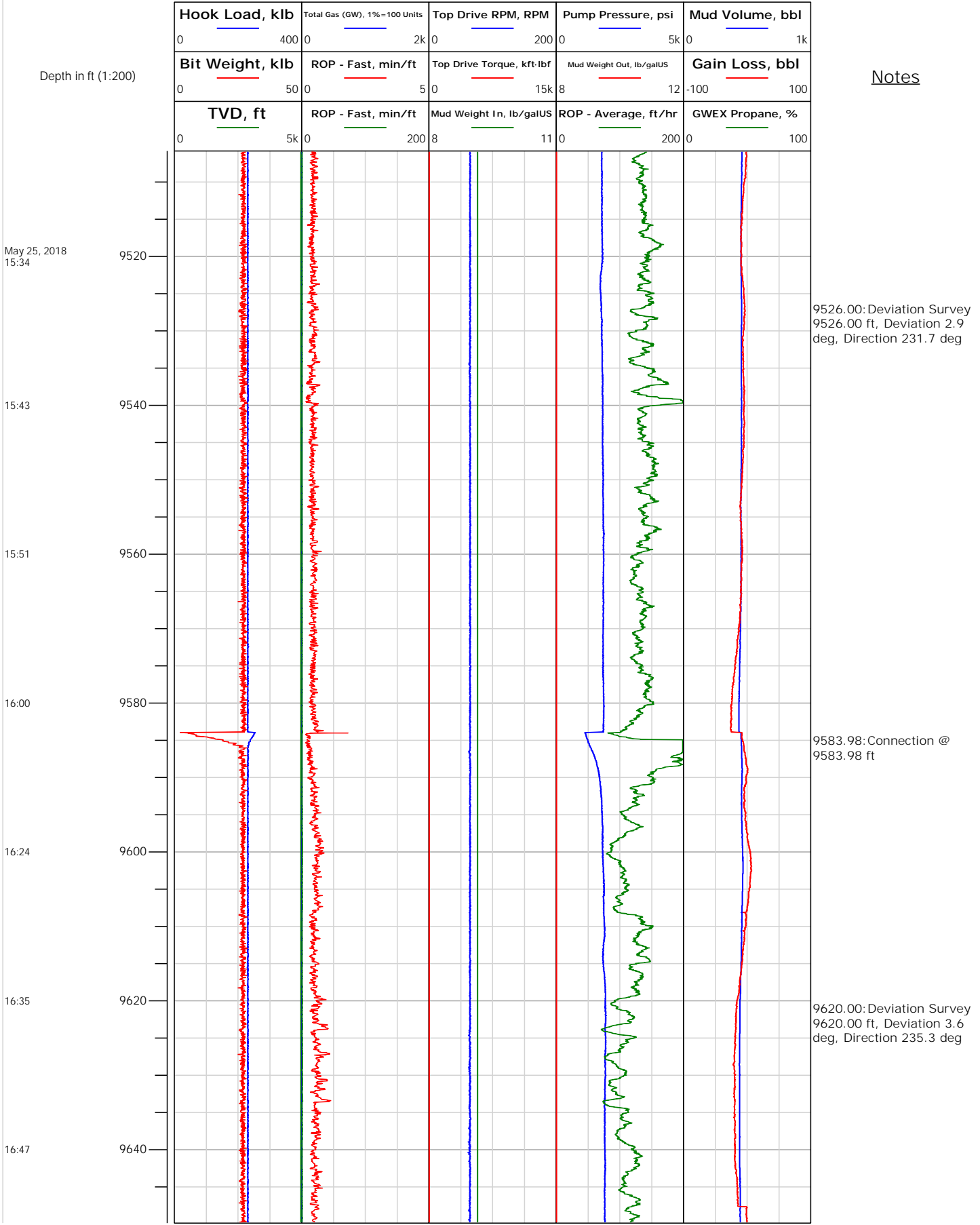


Electronic Drilling Recorder

Operator: Laramie Energy
 Contractor: Helmerich & Payne Drlg Co

Well Name: CC 0697-03-12W
 Rig: 522

Location:



Notes

9526.00: Deviation Survey
 9526.00 ft, Deviation 2.9 deg, Direction 231.7 deg

9583.98: Connection @
 9583.98 ft

9620.00: Deviation Survey
 9620.00 ft, Deviation 3.6 deg, Direction 235.3 deg



Electronic Drilling Recorder

Operator: Laramie Energy
 Contractor: Helmerich & Payne Drlg Co

Well Name: CC 0697-03-12W
 Rig: 522

Location:

