

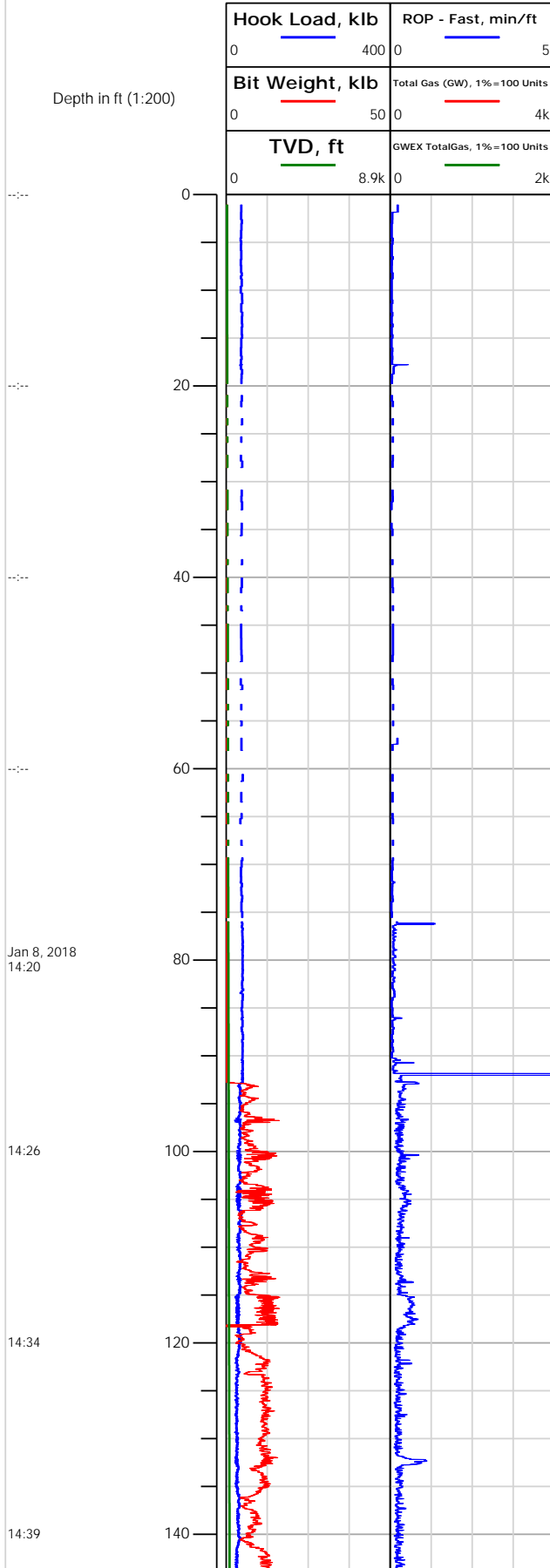


Electronic Drilling Recorder

Operator: Laramie Energy
Contractor: Helmerich & Payne Drlg Co

Well Name: Nichols 0994-24-02W
Rig: 290

Location: SW/4 Of NE/4



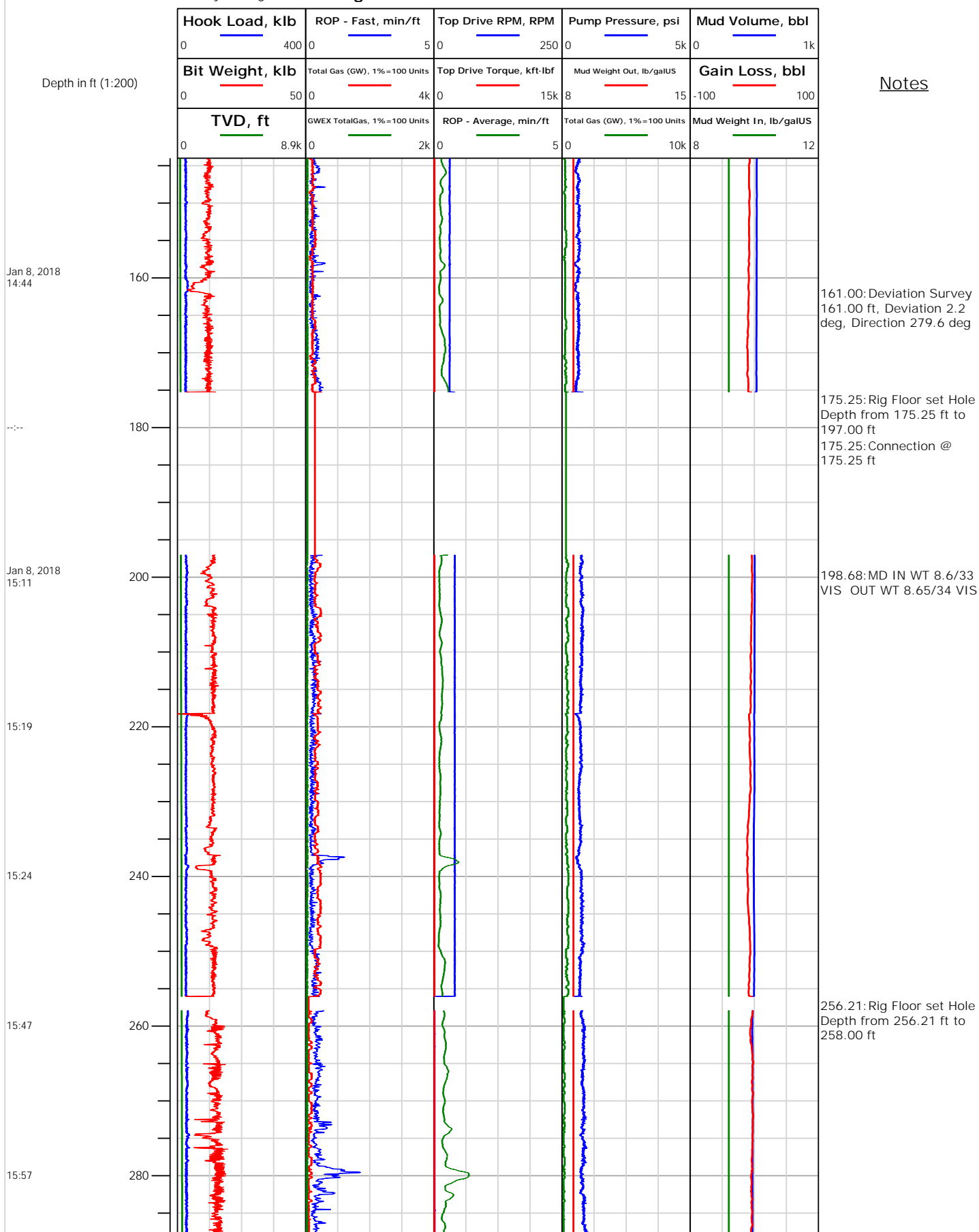


Electronic Drilling Recorder

Operator: Laramie Energy
Contractor: Helmerich & Payne Drlg Co

Well Name: Nichols 0994-24-02W
Rig: 290

Location: SW/4 Of NE/4





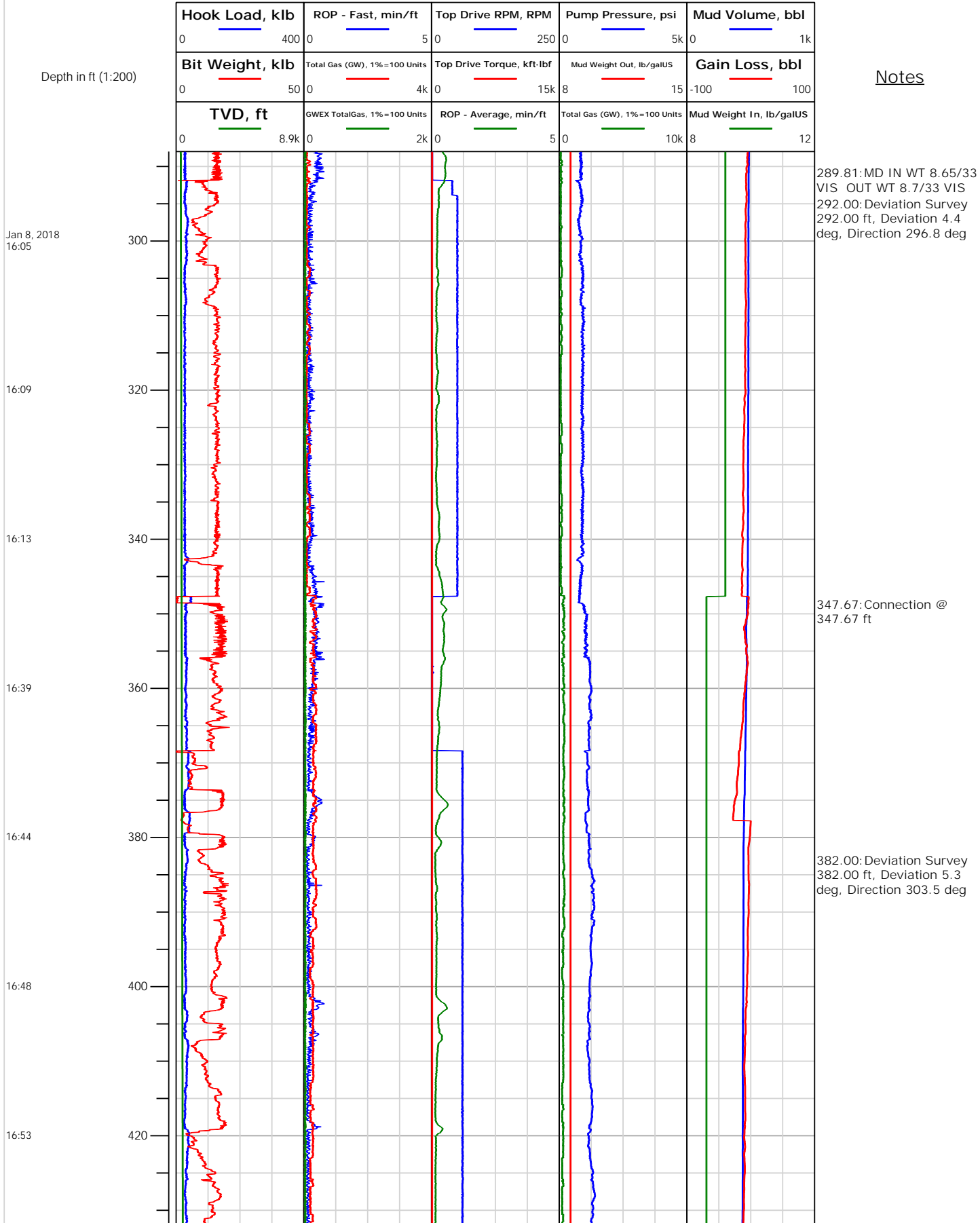
Electronic Drilling Recorder

Operator: Laramie Energy
Contractor: Helmerich & Payne Drlg Co

Well Name: Nichols 0994-24-02W
Rig: 290

Location: SW/4 Of NE/4

Notes





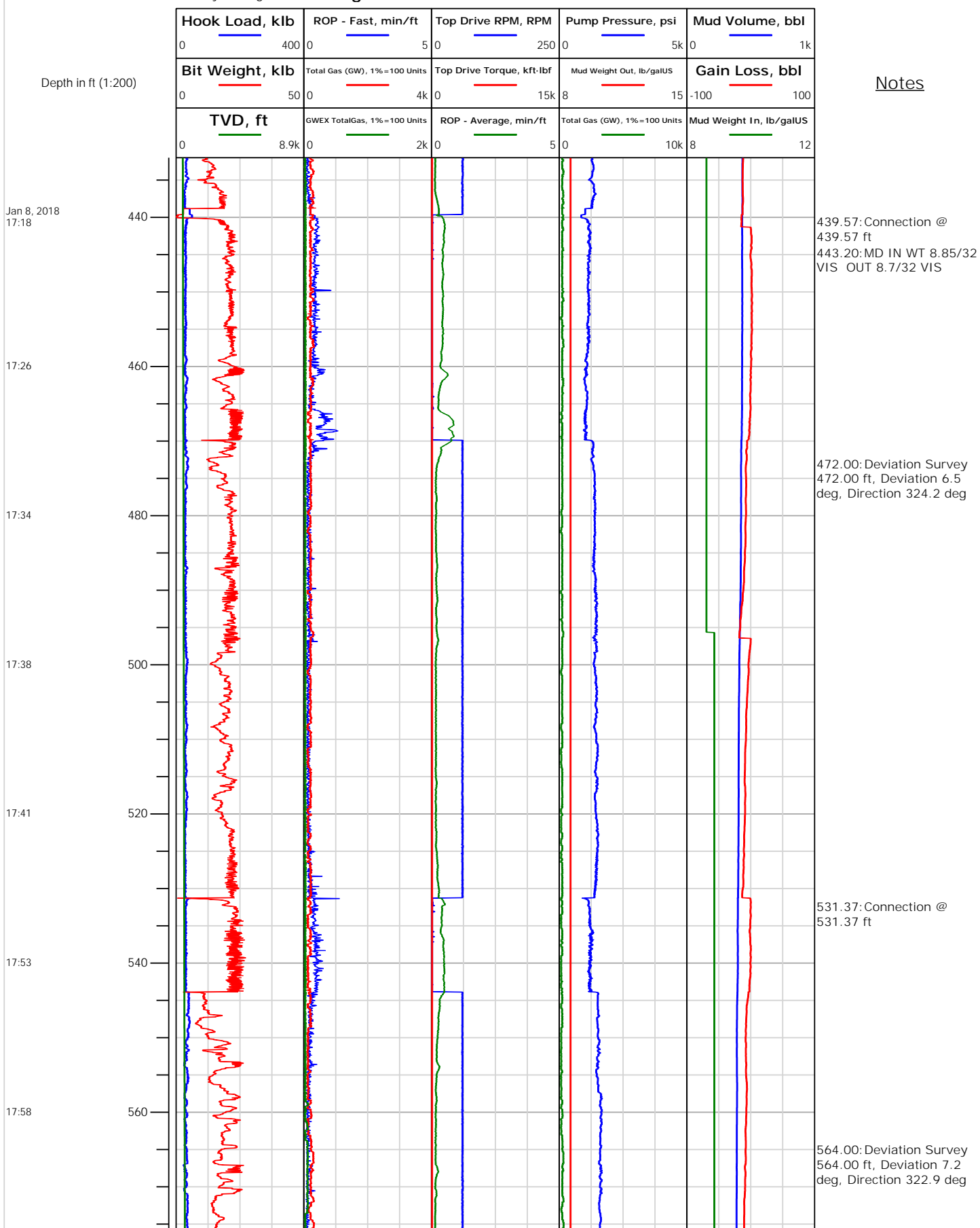
Electronic Drilling Recorder

Operator: Laramie Energy
Contractor: Helmerich & Payne Drlg Co

Well Name: Nichols 0994-24-02W
Rig: 290

Location: SW/4 Of NE/4

Notes





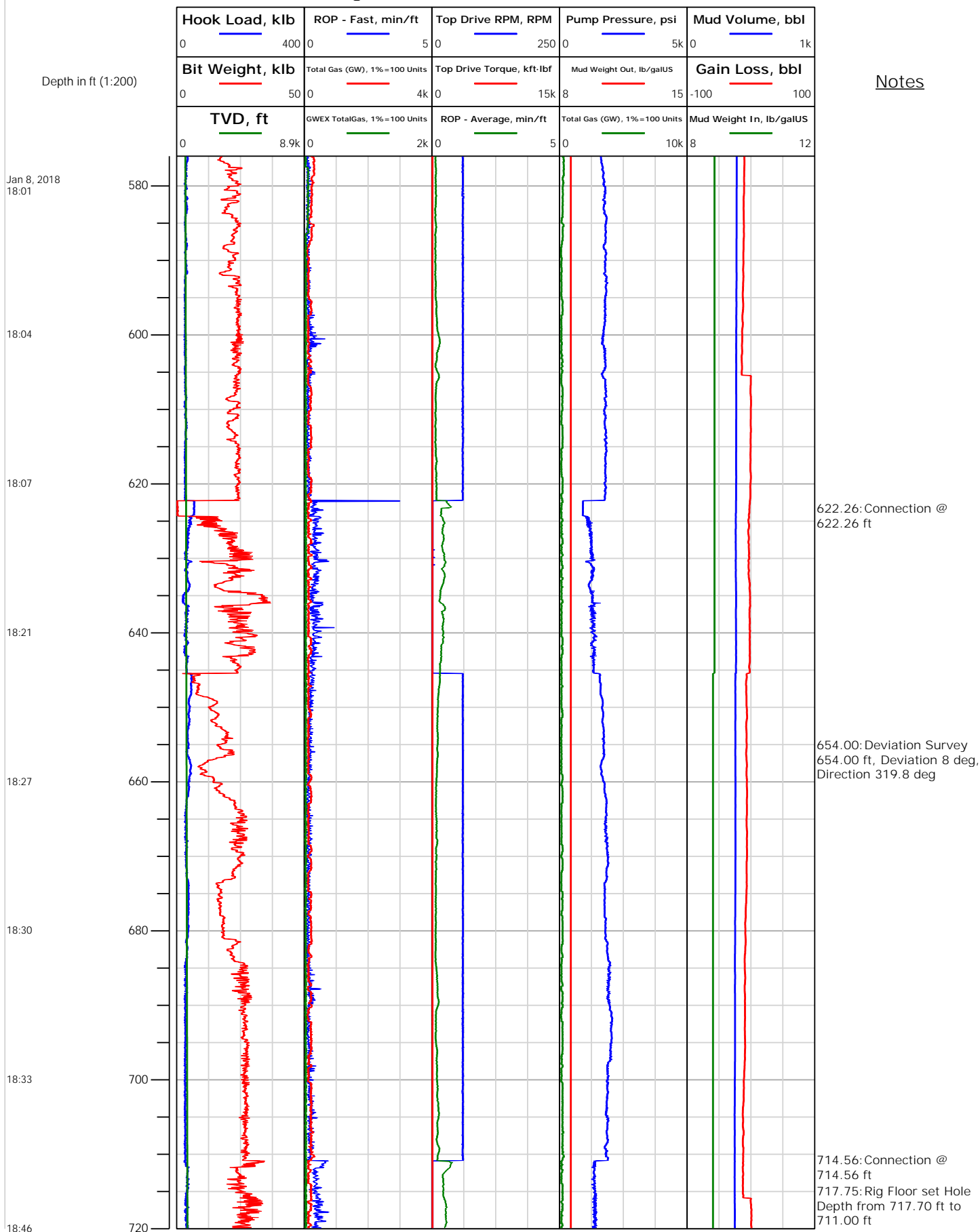
Electronic Drilling Recorder

Operator: Laramie Energy
Contractor: Helmerich & Payne Drlg Co

Well Name: Nichols 0994-24-02W
Rig: 290

Location: SW/4 Of NE/4

Notes





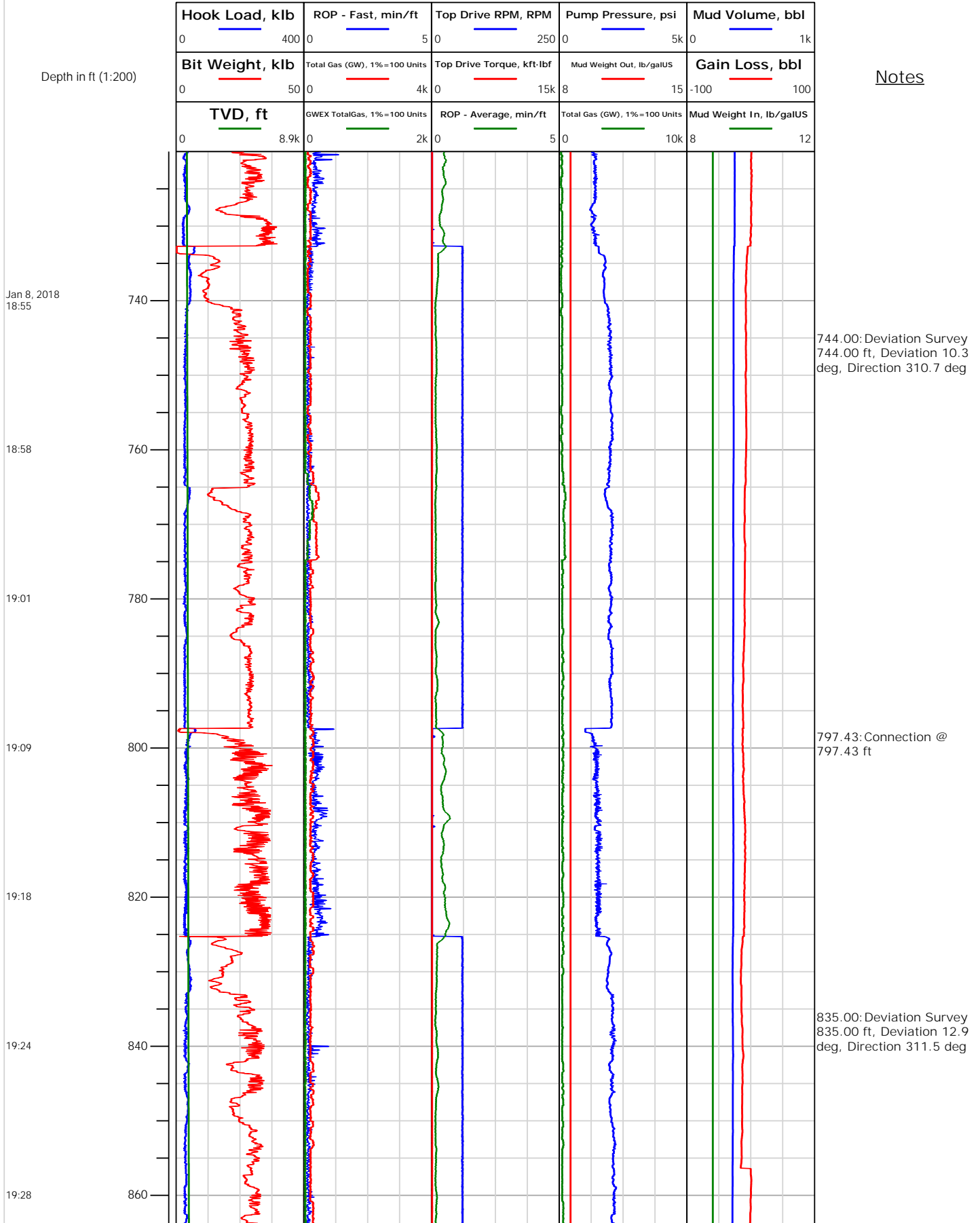
Electronic Drilling Recorder

Operator: Laramie Energy
Contractor: Helmerich & Payne Drlg Co

Well Name: Nichols 0994-24-02W
Rig: 290

Location: SW/4 Of NE/4

Notes





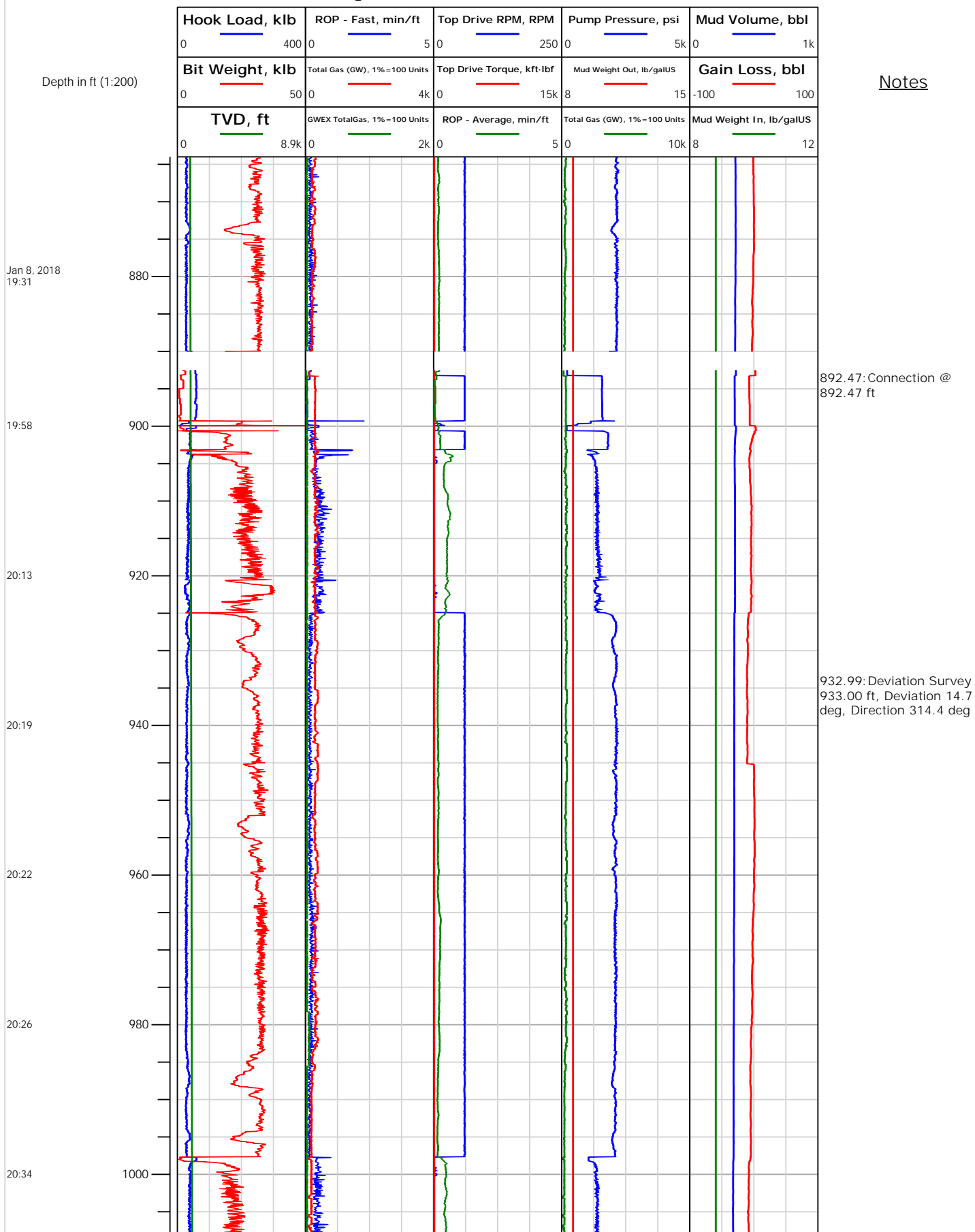
Electronic Drilling Recorder

Operator: Laramie Energy
Contractor: Helmerich & Payne Drlg Co

Well Name: Nichols 0994-24-02W
Rig: 290

Location: SW/4 Of NE/4

Notes



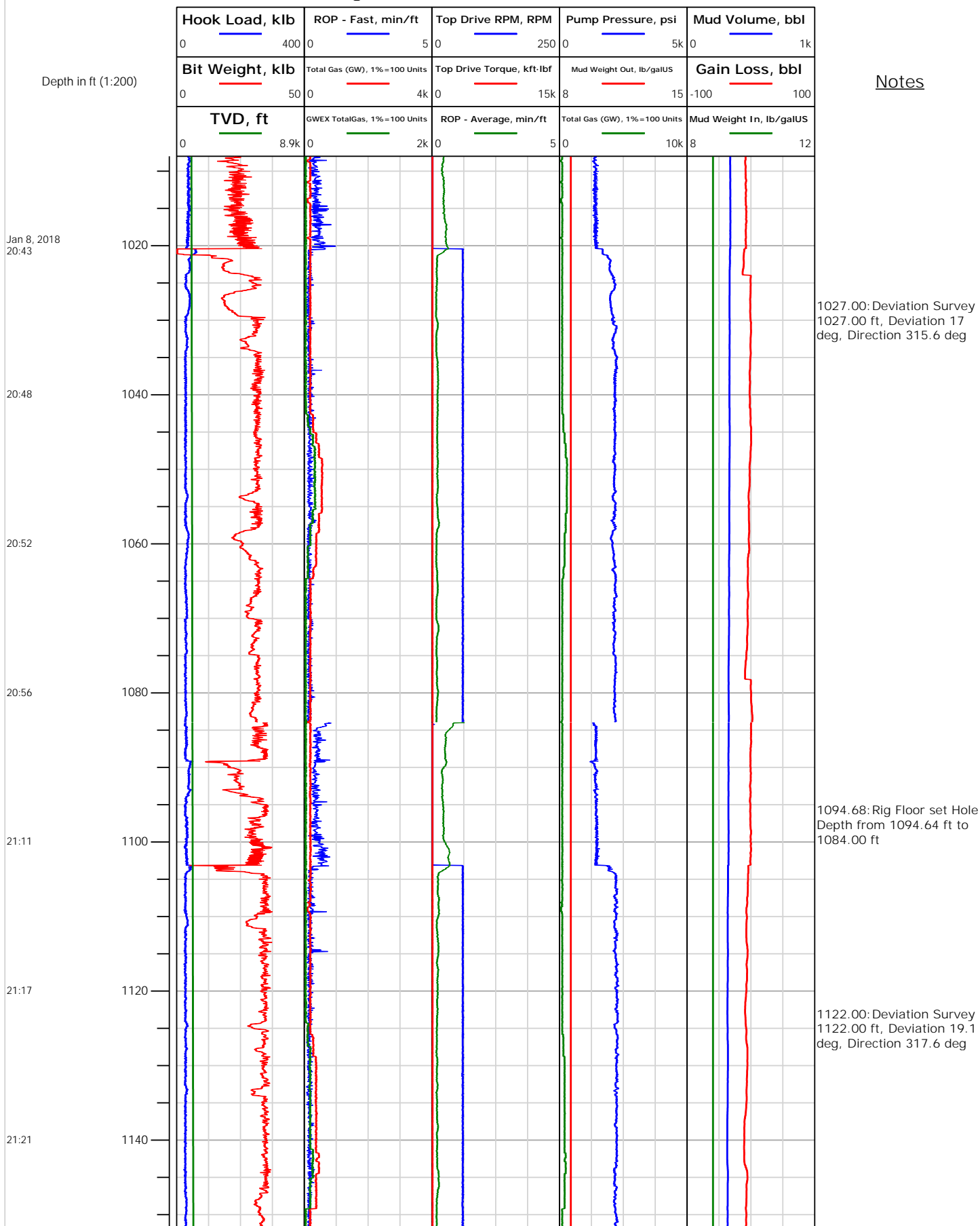


Electronic Drilling Recorder

Operator: Laramie Energy
Contractor: Helmerich & Payne Drlg Co

Well Name: Nichols 0994-24-02W
Rig: 290

Location: SW/4 Of NE/4





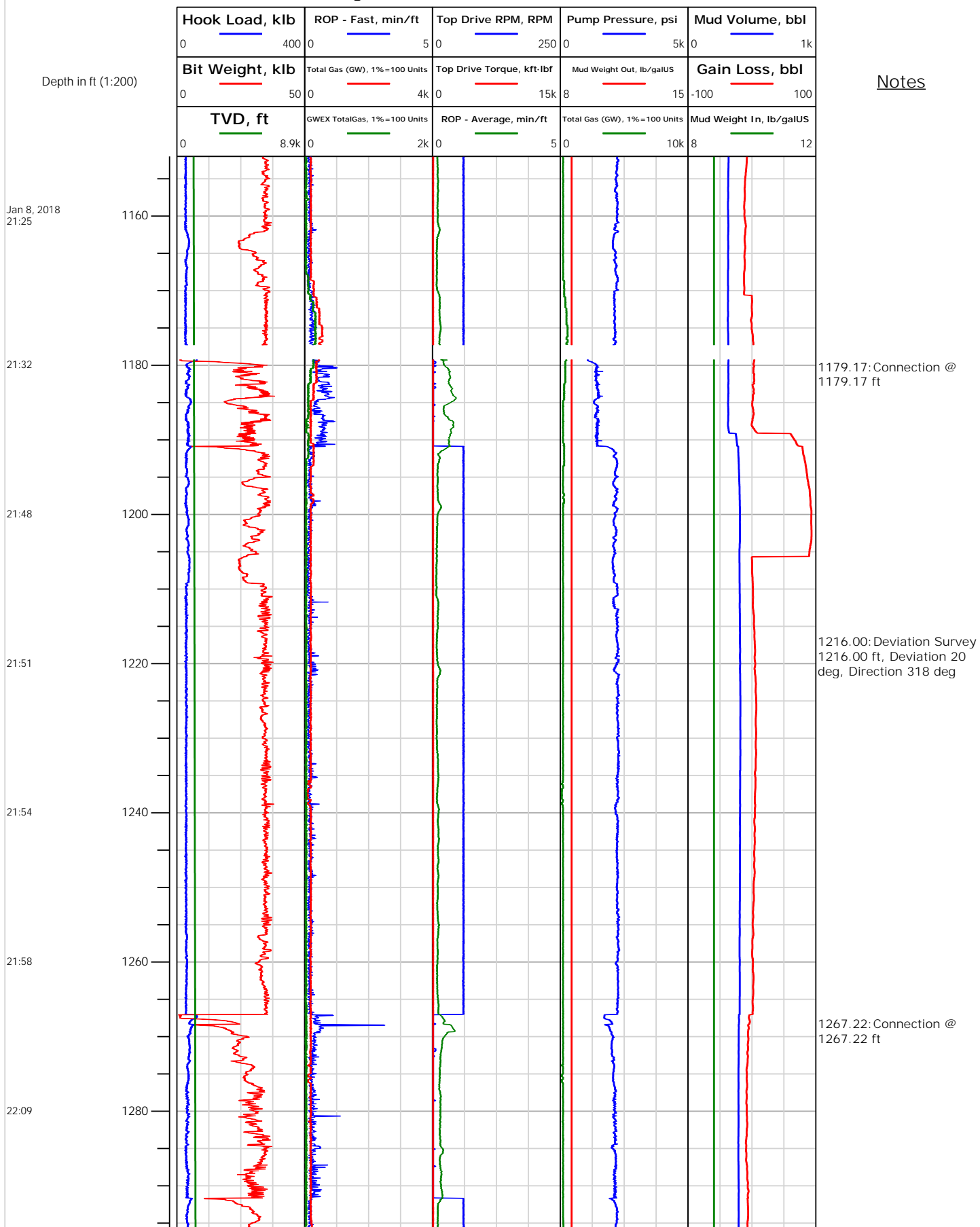
Electronic Drilling Recorder

Operator: Laramie Energy
Contractor: Helmerich & Payne Drlg Co

Well Name: Nichols 0994-24-02W
Rig: 290

Location: SW/4 Of NE/4

Notes





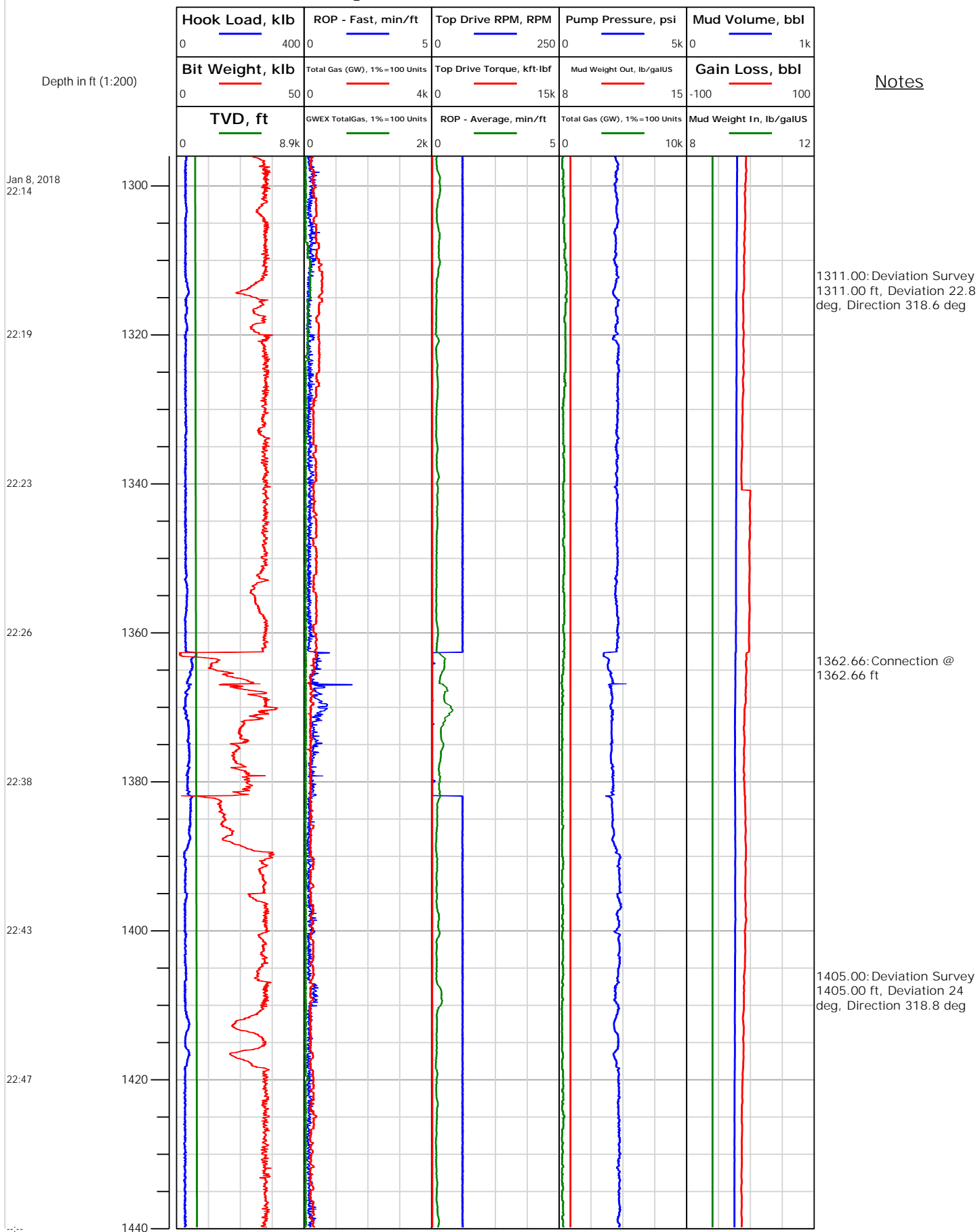
Electronic Drilling Recorder

Operator: Laramie Energy
Contractor: Helmerich & Payne Drlg Co

Well Name: Nichols 0994-24-02W
Rig: 290

Location: SW/4 Of NE/4

Notes



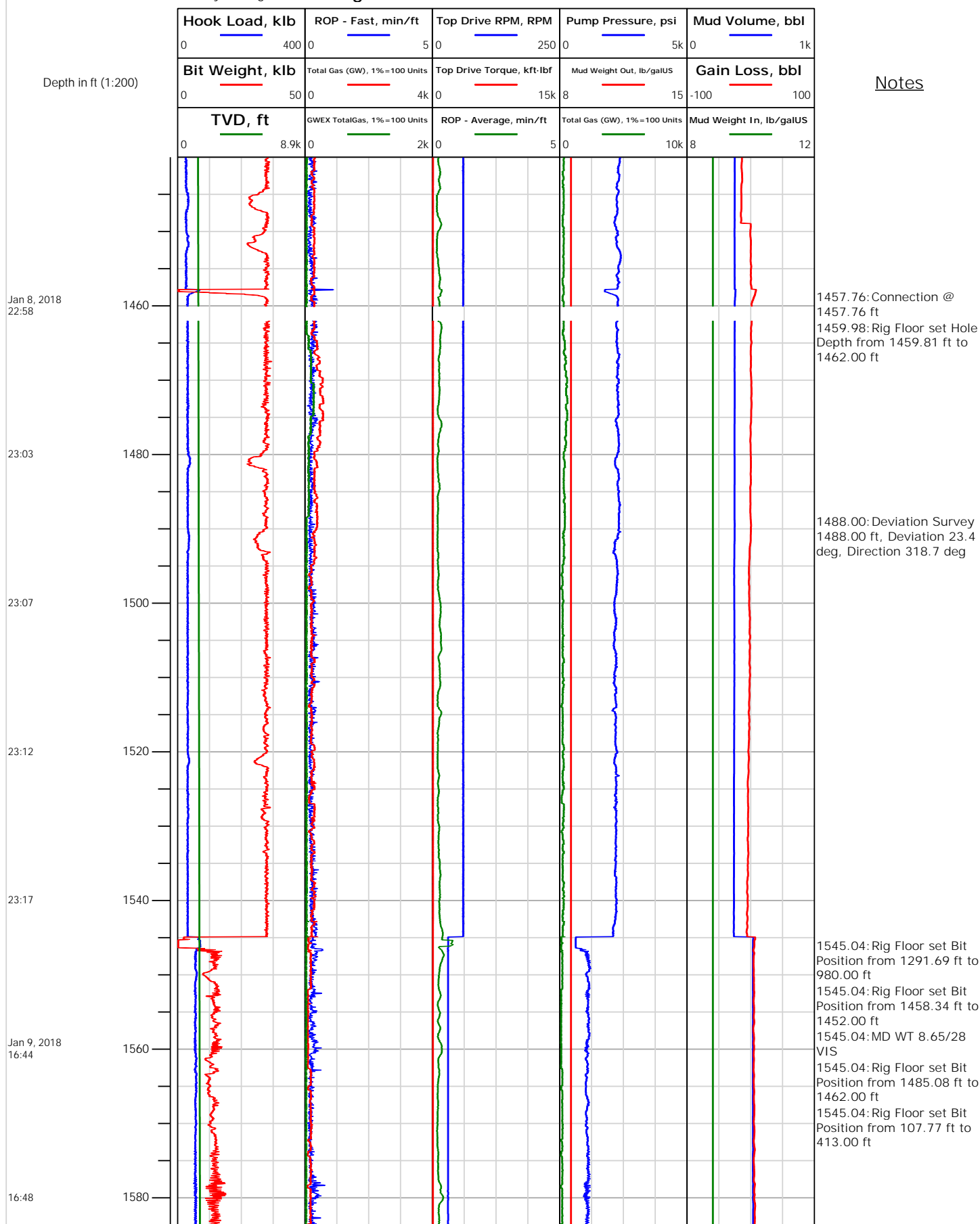


Electronic Drilling Recorder

Operator: Laramie Energy
Contractor: Helmerich & Payne Drlg Co

Well Name: Nichols 0994-24-02W
Rig: 290

Location: SW/4 Of NE/4





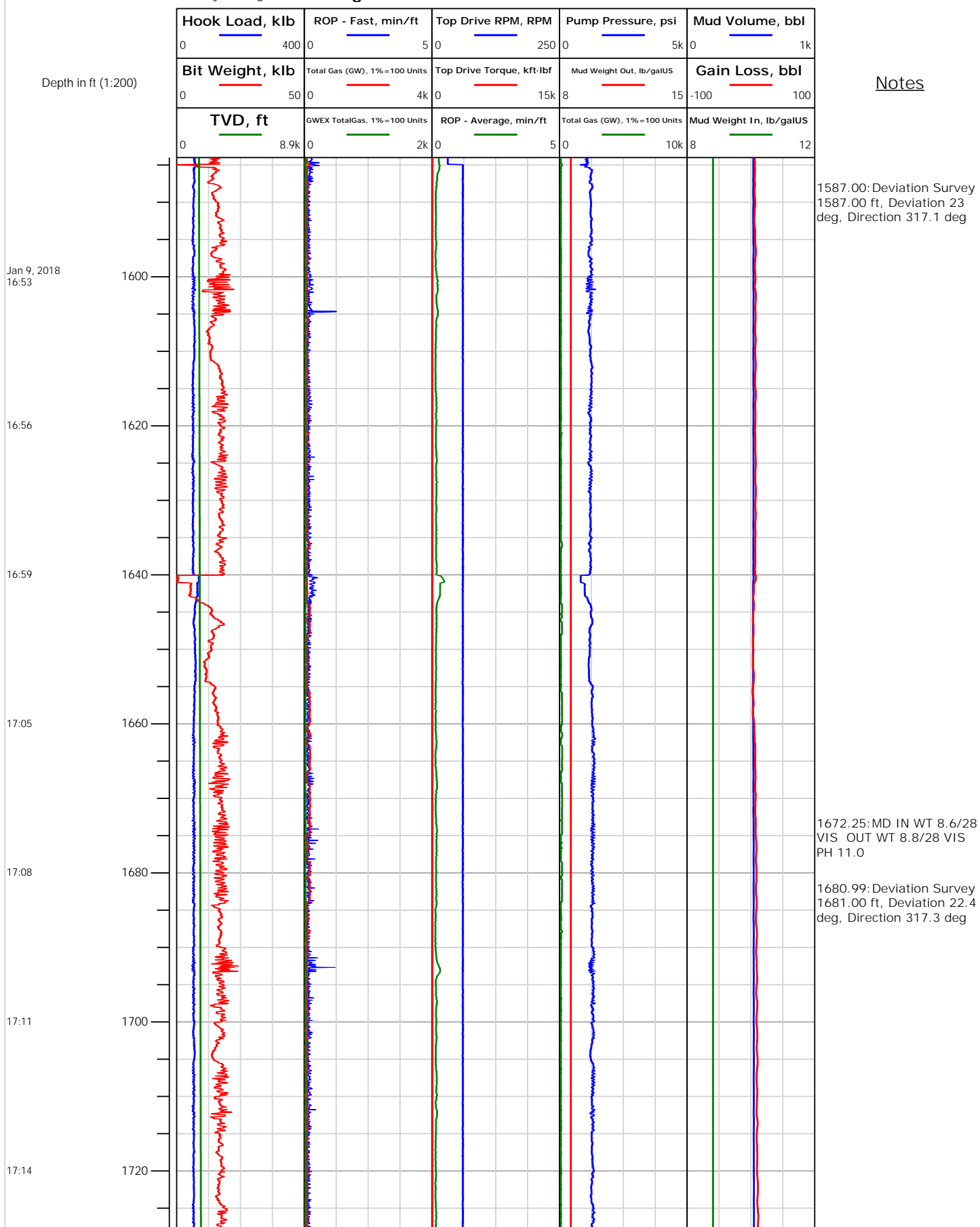
Operator: Laramie Energy
Contractor: Helmerich & Payne Drlg Co

Electronic Drilling Recorder

Well Name: Nichols 0994-24-02W
Rig: 290

Location: SW/4 Of NE/4

Notes



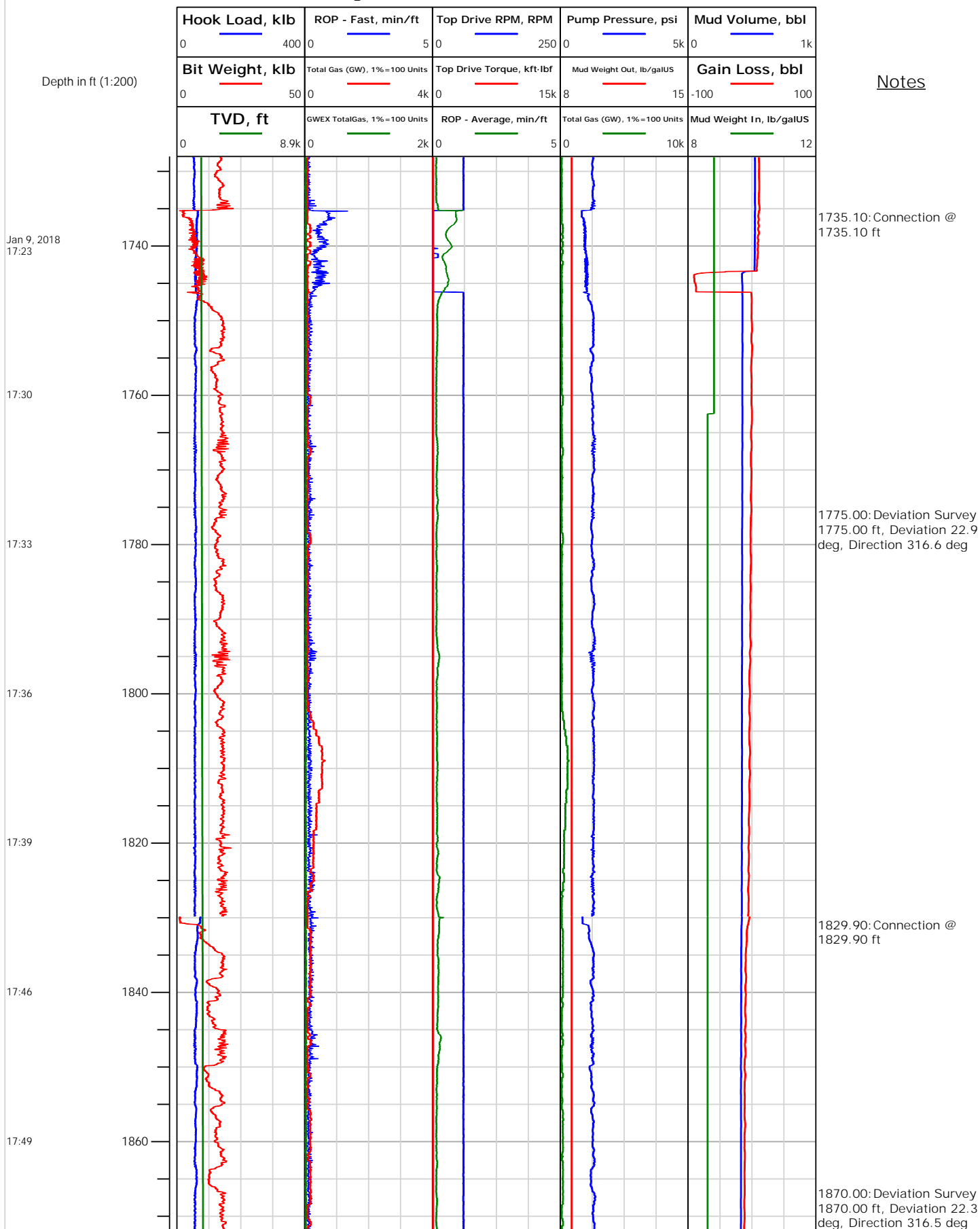


Electronic Drilling Recorder

Operator: Laramie Energy
Contractor: Helmerich & Payne Drlg Co

Well Name: Nichols 0994-24-02W
Rig: 290

Location: SW/4 Of NE/4





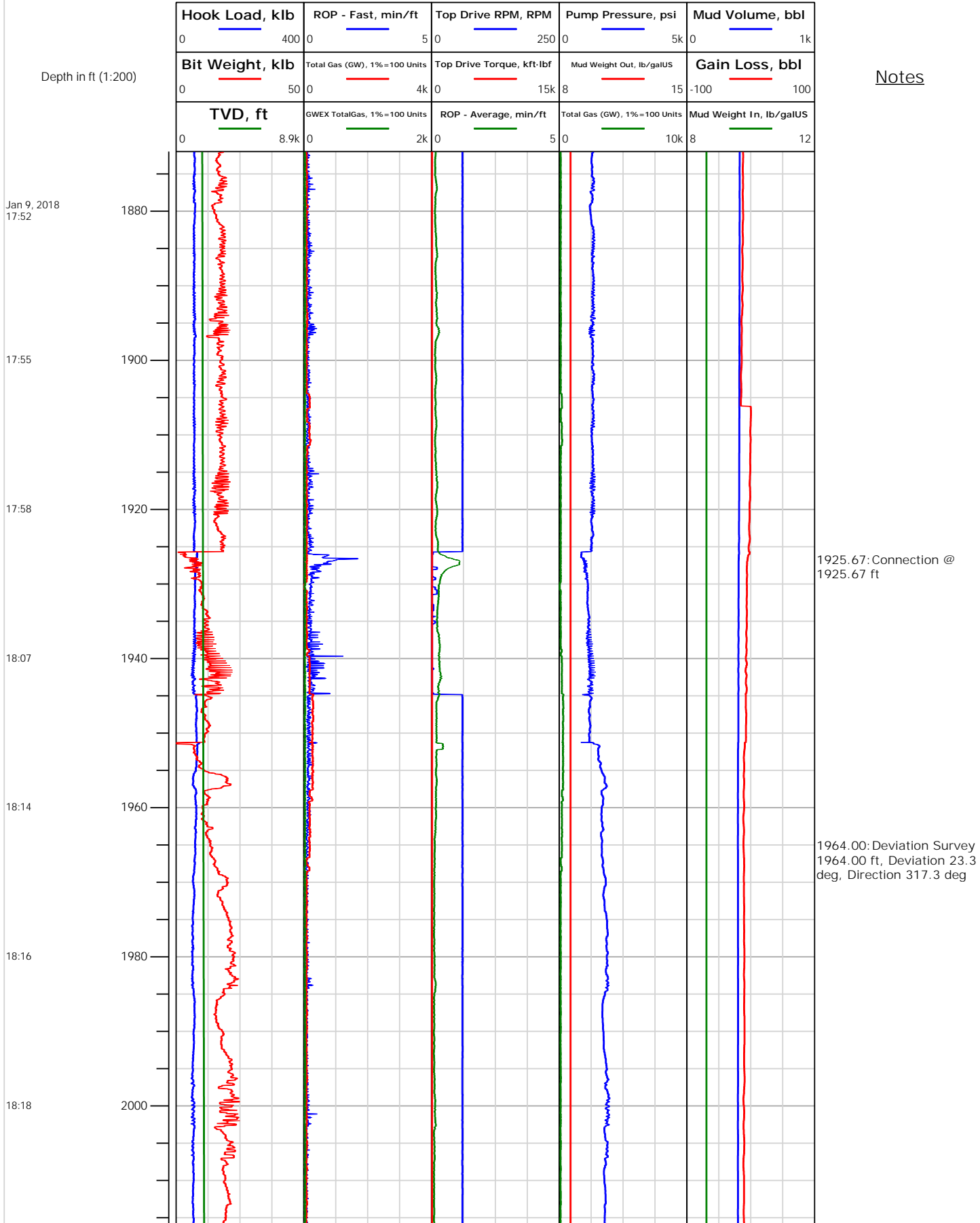
Electronic Drilling Recorder

Operator: Laramie Energy
Contractor: Helmerich & Payne Drlg Co

Well Name: Nichols 0994-24-02W
Rig: 290

Location: SW/4 Of NE/4

Notes





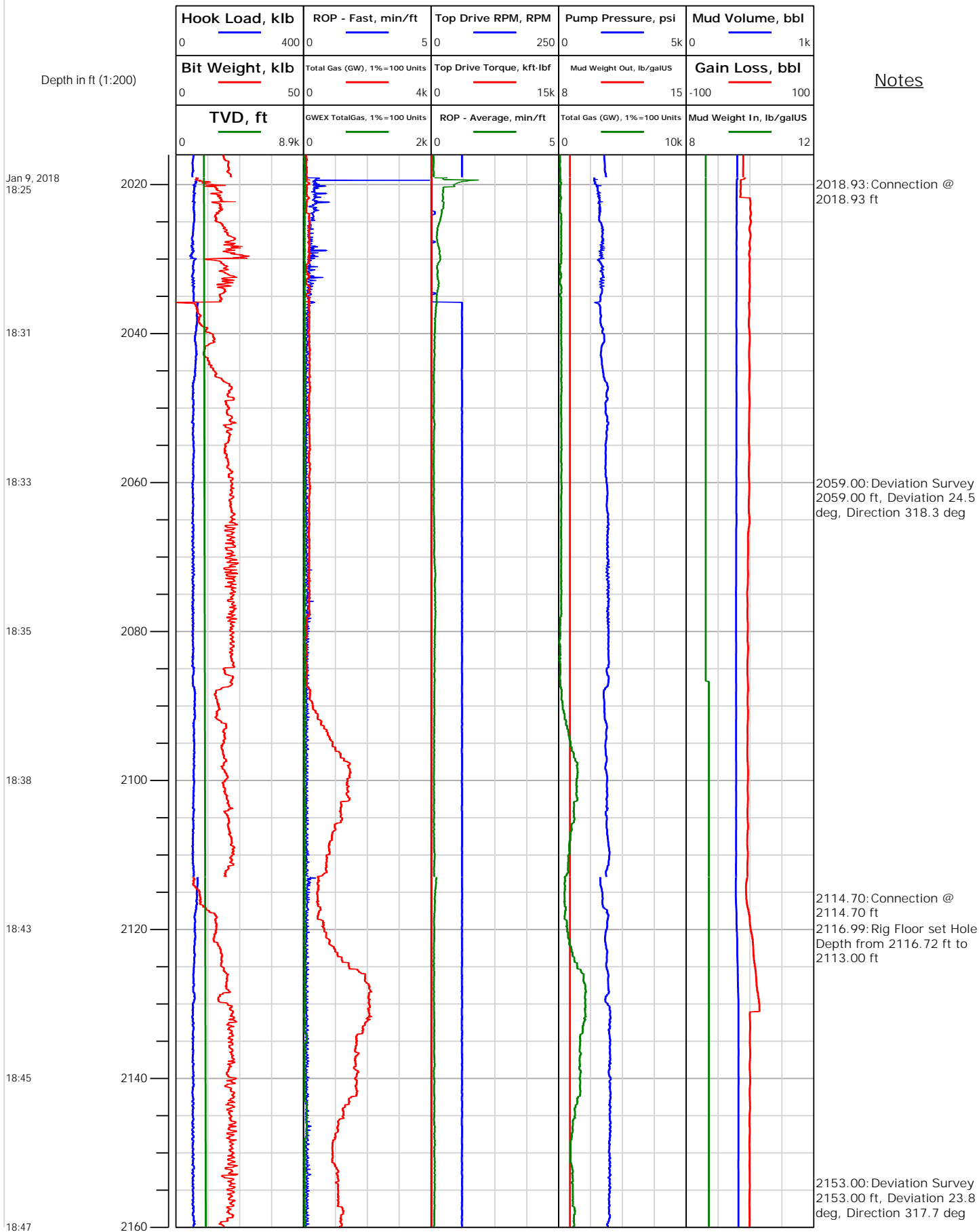
Electronic Drilling Recorder

Operator: Laramie Energy
Contractor: Helmerich & Payne Drlg Co

Well Name: Nichols 0994-24-02W
Rig: 290

Location: SW/4 Of NE/4

Notes





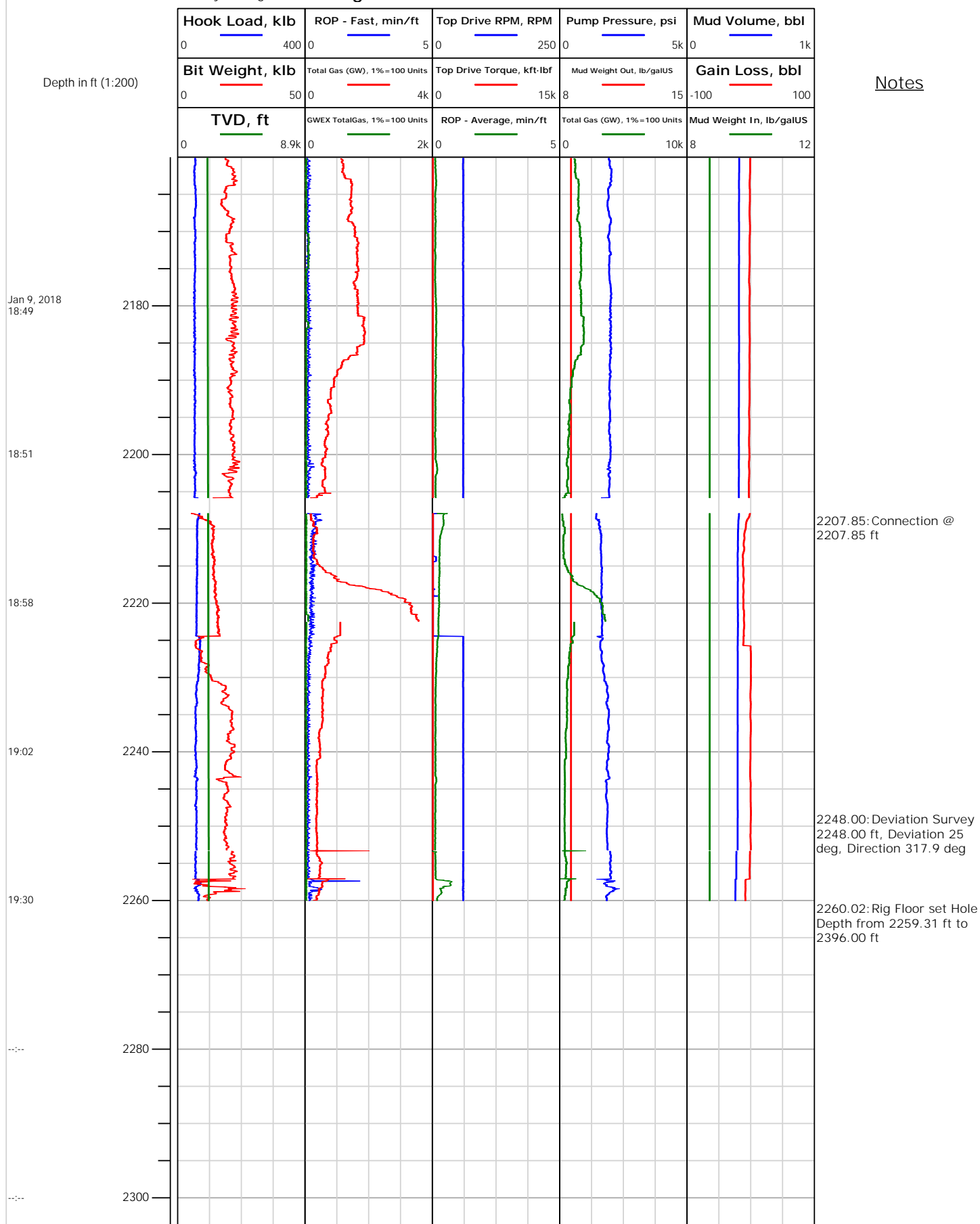
Electronic Drilling Recorder

Operator: Laramie Energy
Contractor: Helmerich & Payne Drlg Co

Well Name: Nichols 0994-24-02W
Rig: 290

Location: SW/4 Of NE/4

Notes





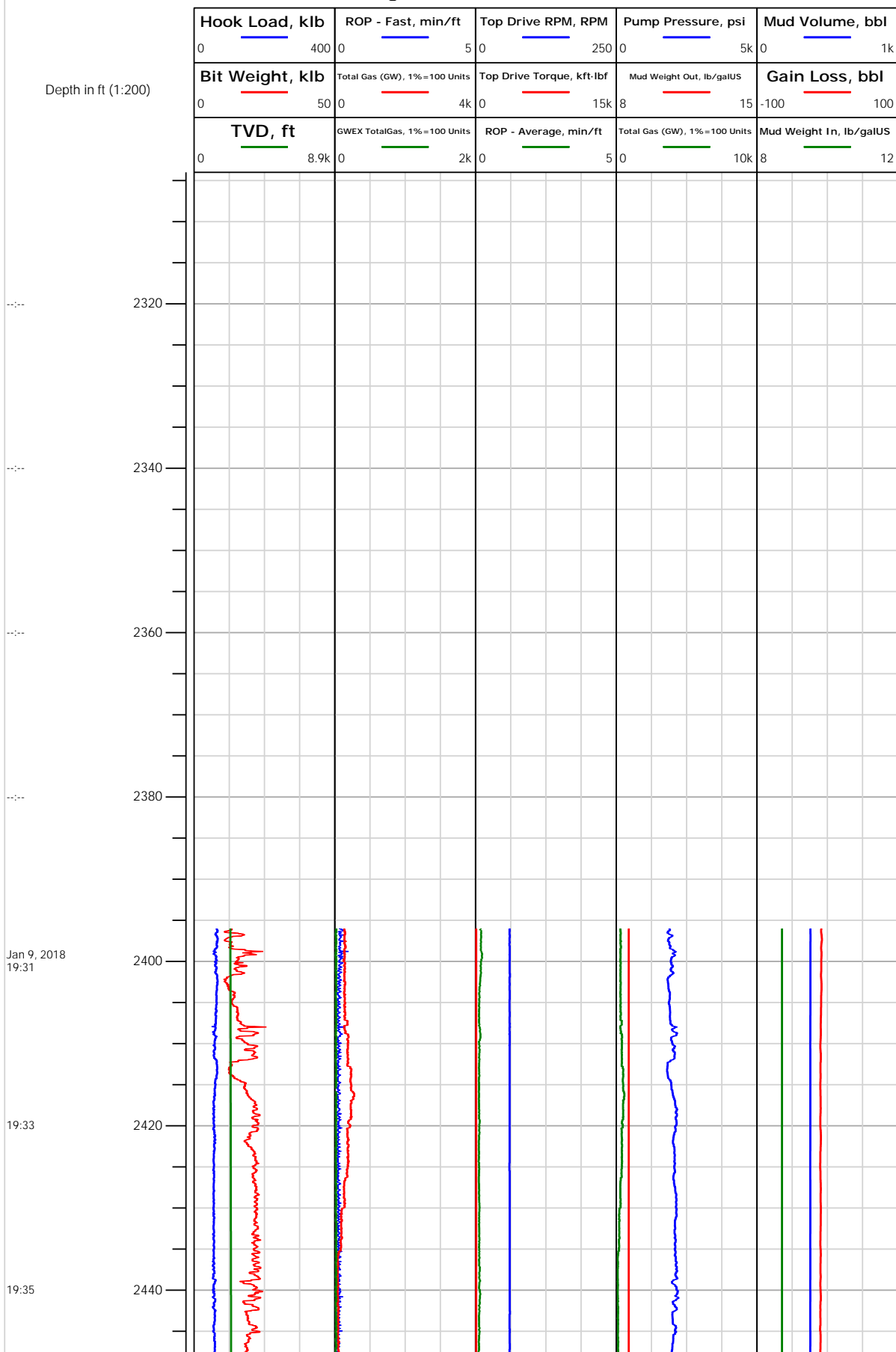
Electronic Drilling Recorder

Operator: Laramie Energy
Contractor: Helmerich & Payne Drlg Co

Well Name: Nichols 0994-24-02W
Rig: 290

Location: SW/4 Of NE/4

Notes



2342.00: Deviation Survey
 2342.00 ft, Deviation 24.2 deg, Direction 317.3 deg

2437.00: Deviation Survey
 2437.00 ft, Deviation 23 deg, Direction 317.3 deg



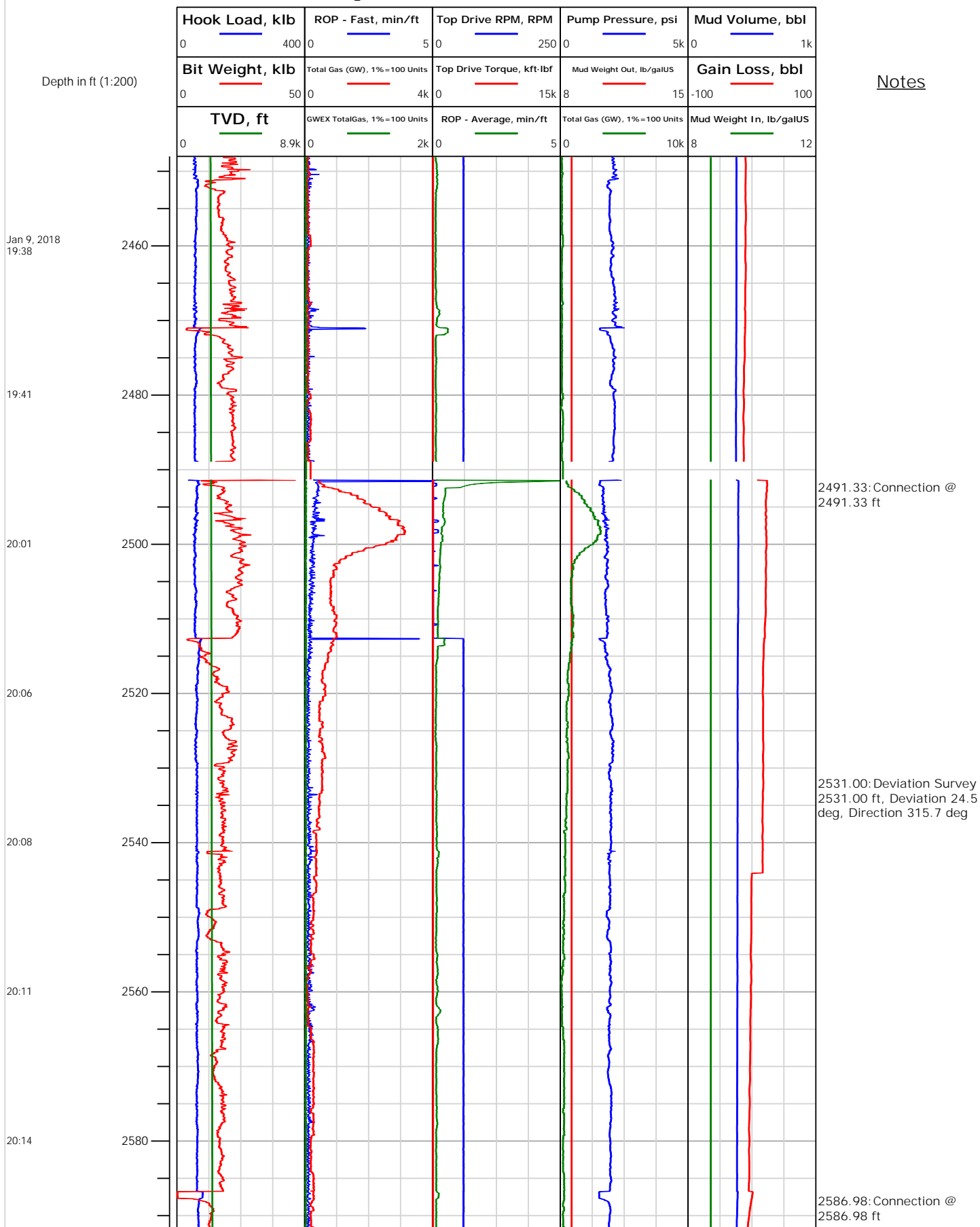
Electronic Drilling Recorder

Operator: Laramie Energy
Contractor: Helmerich & Payne Drlg Co

Well Name: Nichols 0994-24-02W
Rig: 290

Location: SW/4 Of NE/4

Notes





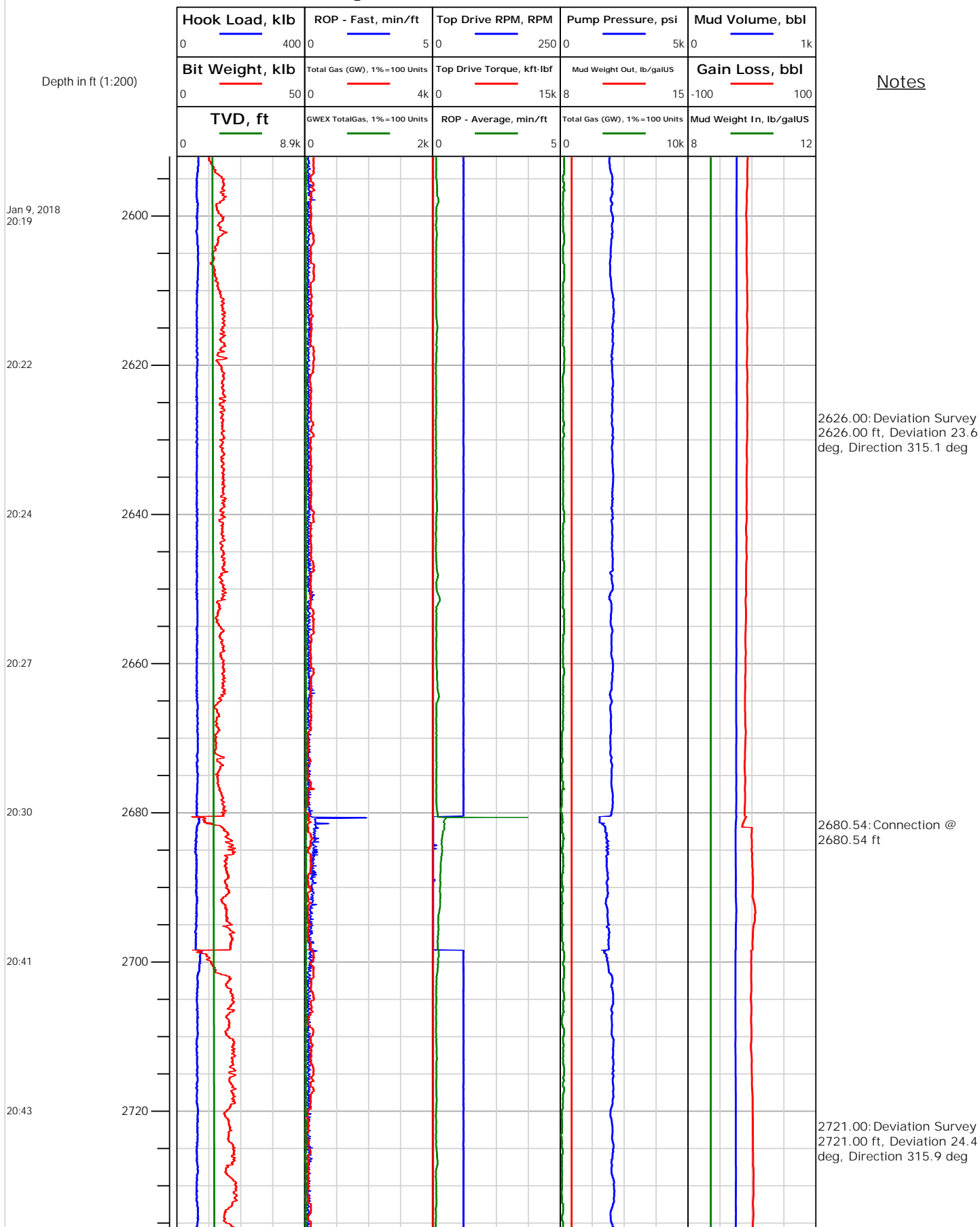
Electronic Drilling Recorder

Operator: Laramie Energy
Contractor: Helmerich & Payne Drlg Co

Well Name: Nichols 0994-24-02W
Rig: 290

Location: SW/4 Of NE/4

Notes





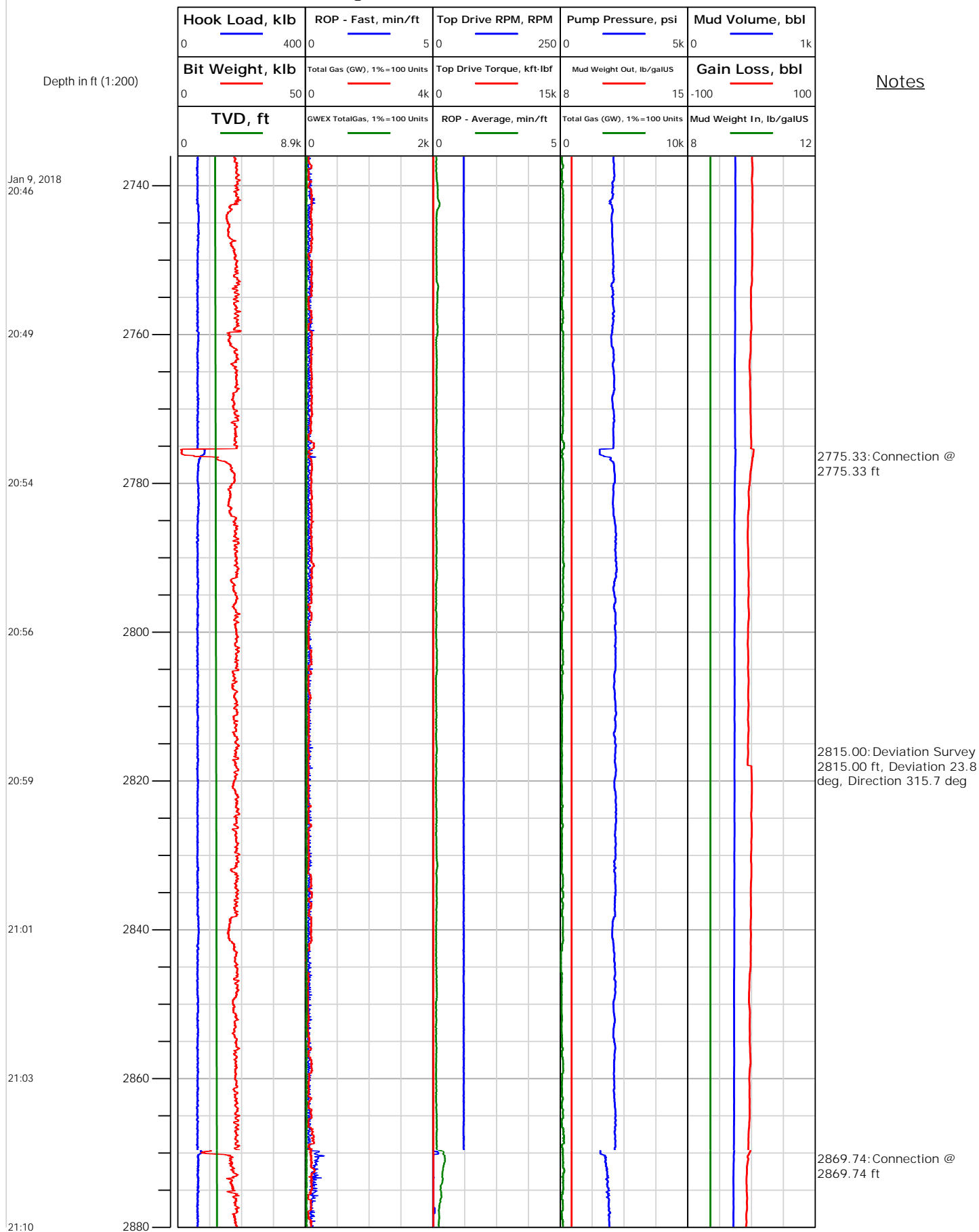
Electronic Drilling Recorder

Operator: Laramie Energy
Contractor: Helmerich & Payne Drlg Co

Well Name: Nichols 0994-24-02W
Rig: 290

Location: SW/4 Of NE/4

Notes





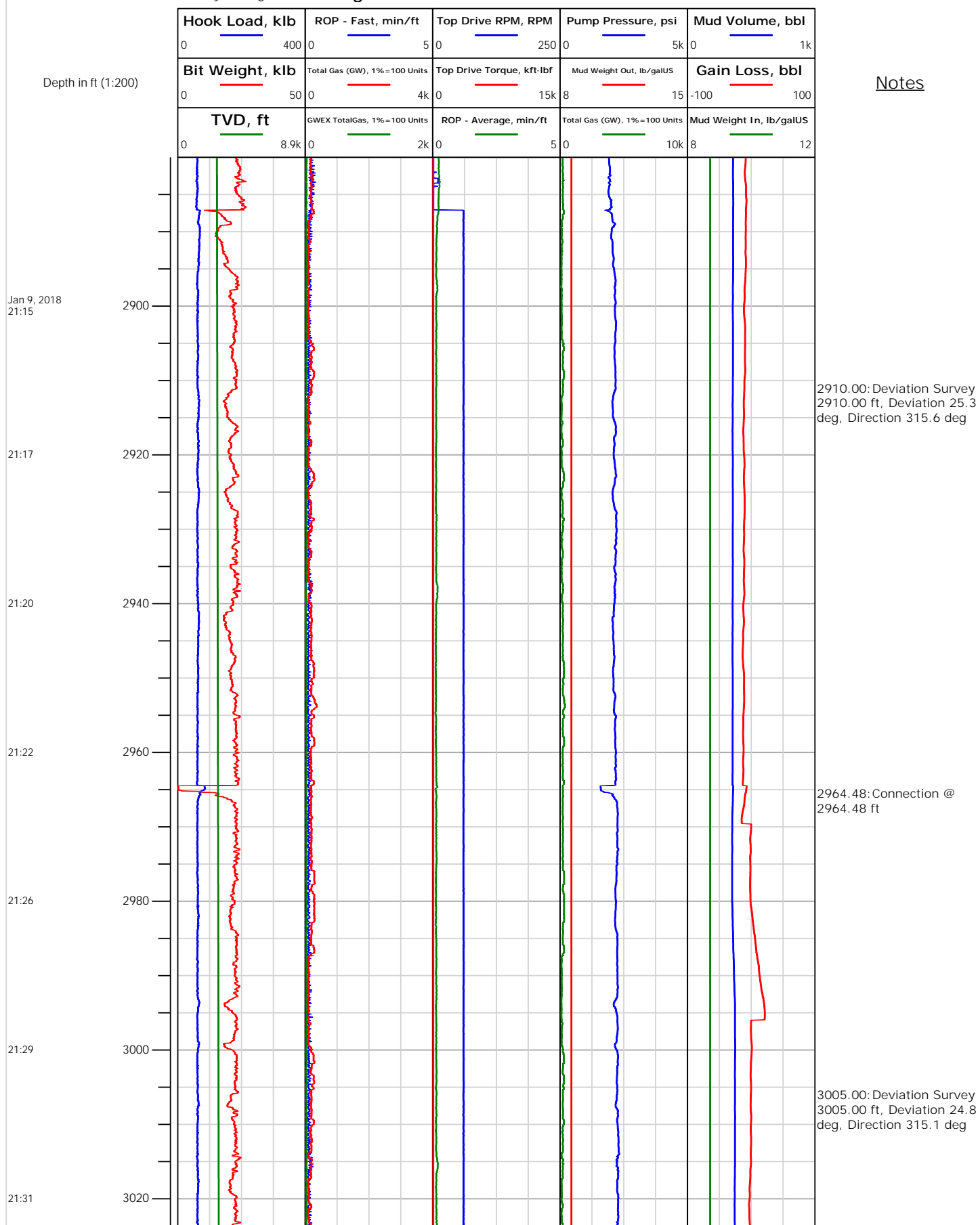
Electronic Drilling Recorder

Operator: Laramie Energy
Contractor: Helmerich & Payne Drlg Co

Well Name: Nichols 0994-24-02W
Rig: 290

Location: SW/4 Of NE/4

Notes





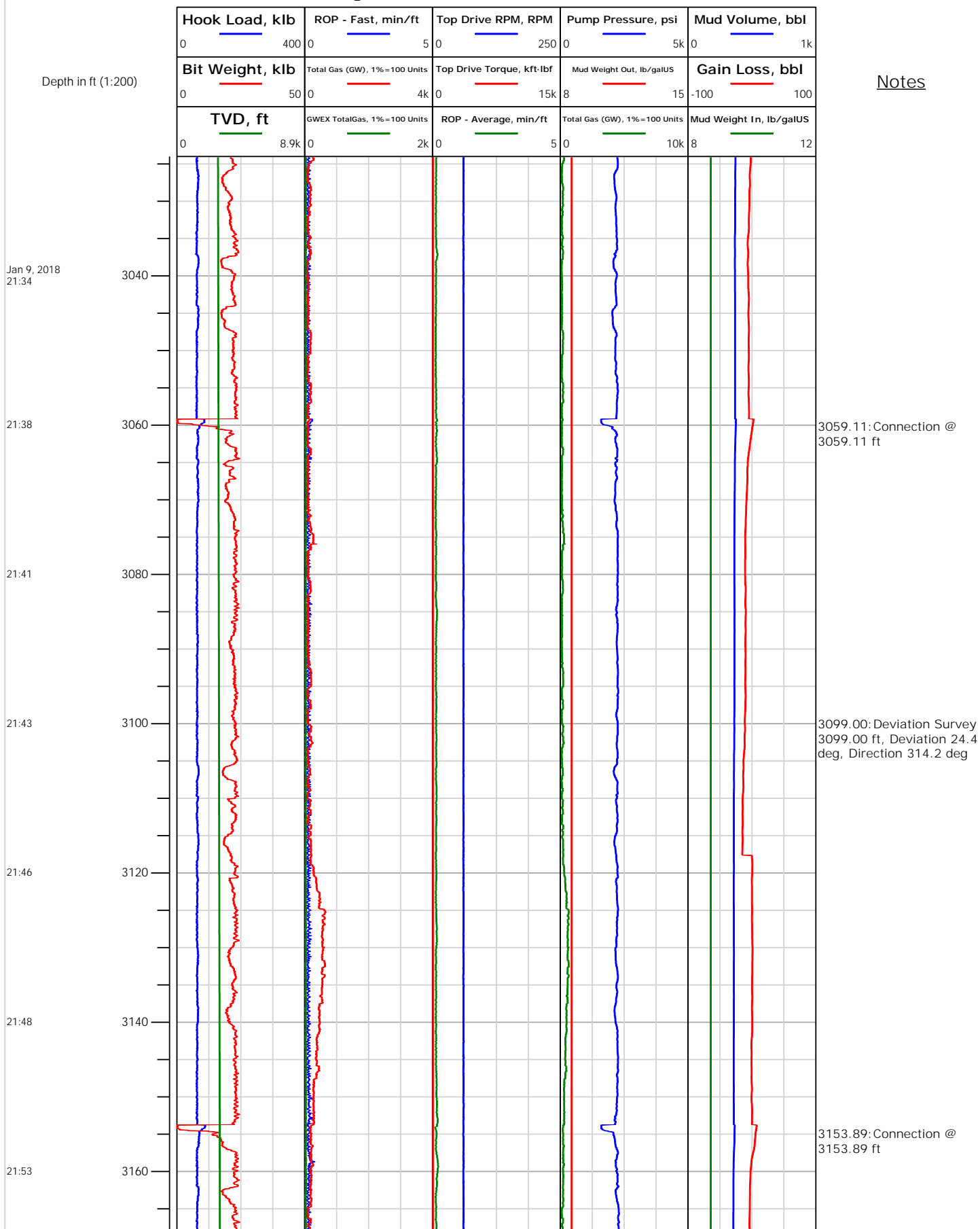
Electronic Drilling Recorder

Operator: Laramie Energy
Contractor: Helmerich & Payne Drlg Co

Well Name: Nichols 0994-24-02W
Rig: 290

Location: SW/4 Of NE/4

Notes





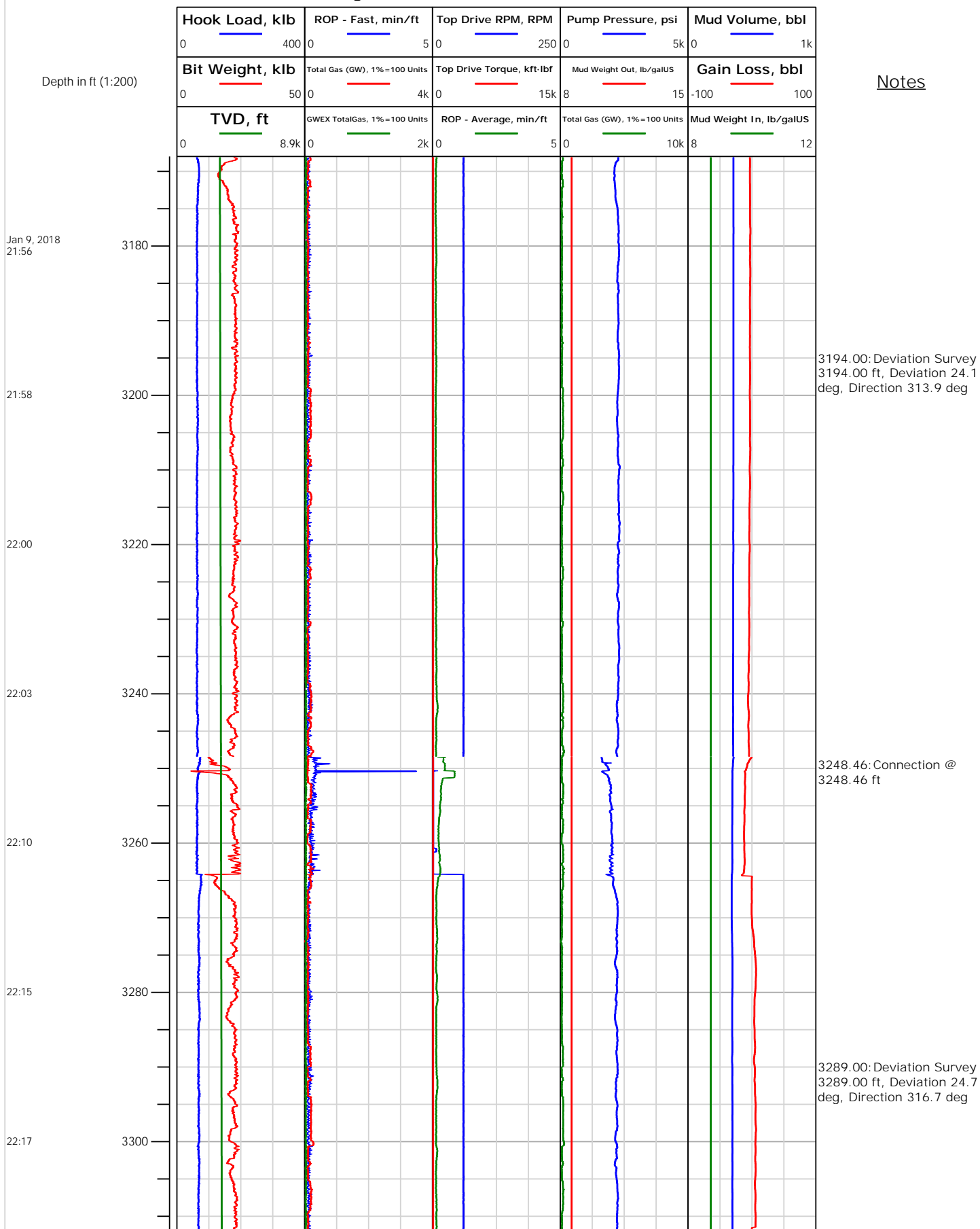
Electronic Drilling Recorder

Operator: Laramie Energy
Contractor: Helmerich & Payne Drlg Co

Well Name: Nichols 0994-24-02W
Rig: 290

Location: SW/4 Of NE/4

Notes





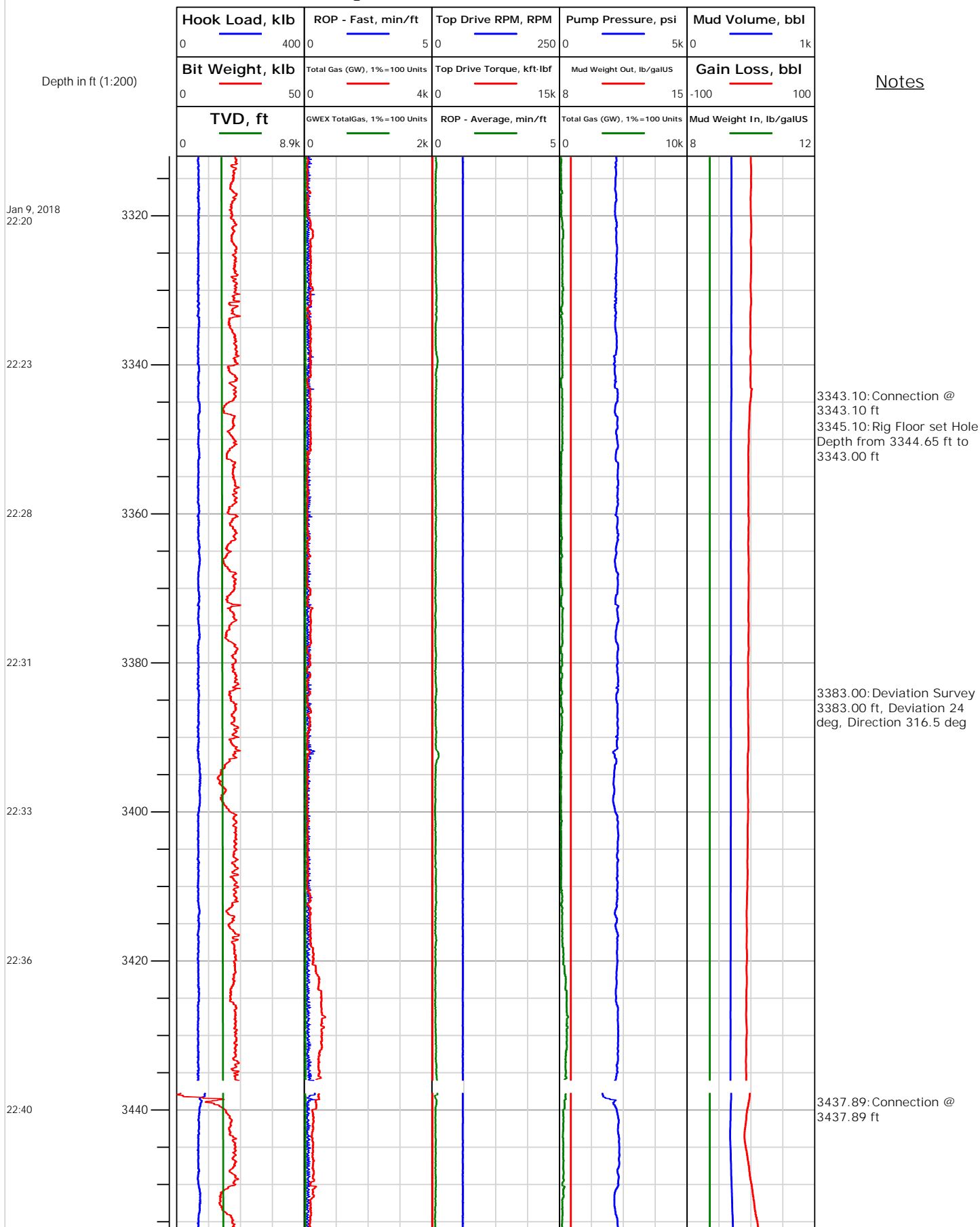
Electronic Drilling Recorder

Operator: Laramie Energy
Contractor: Helmerich & Payne Drlg Co

Well Name: Nichols 0994-24-02W
Rig: 290

Location: SW/4 Of NE/4

Notes





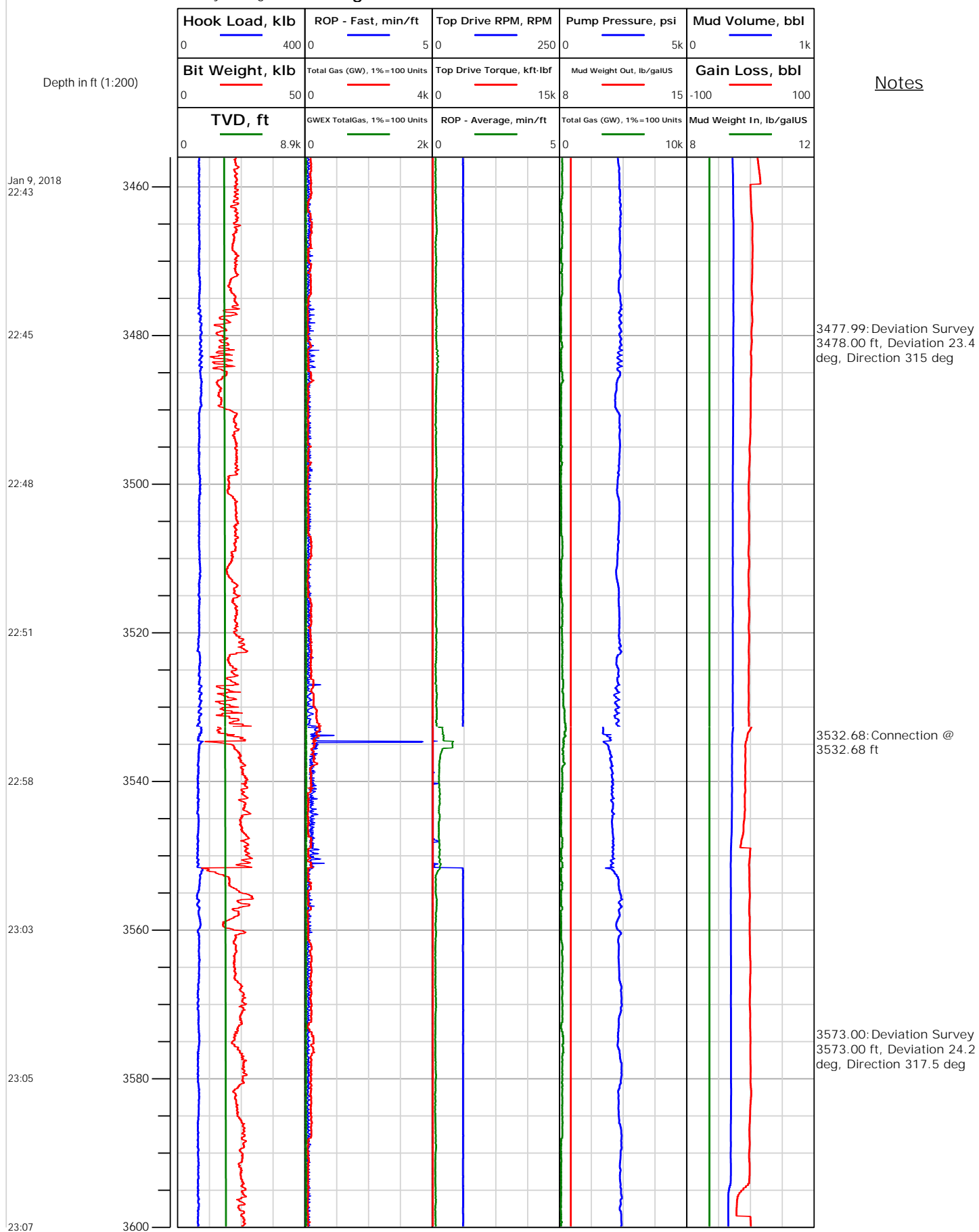
Electronic Drilling Recorder

Operator: Laramie Energy
Contractor: Helmerich & Payne Drlg Co

Well Name: Nichols 0994-24-02W
Rig: 290

Location: SW/4 Of NE/4

Notes





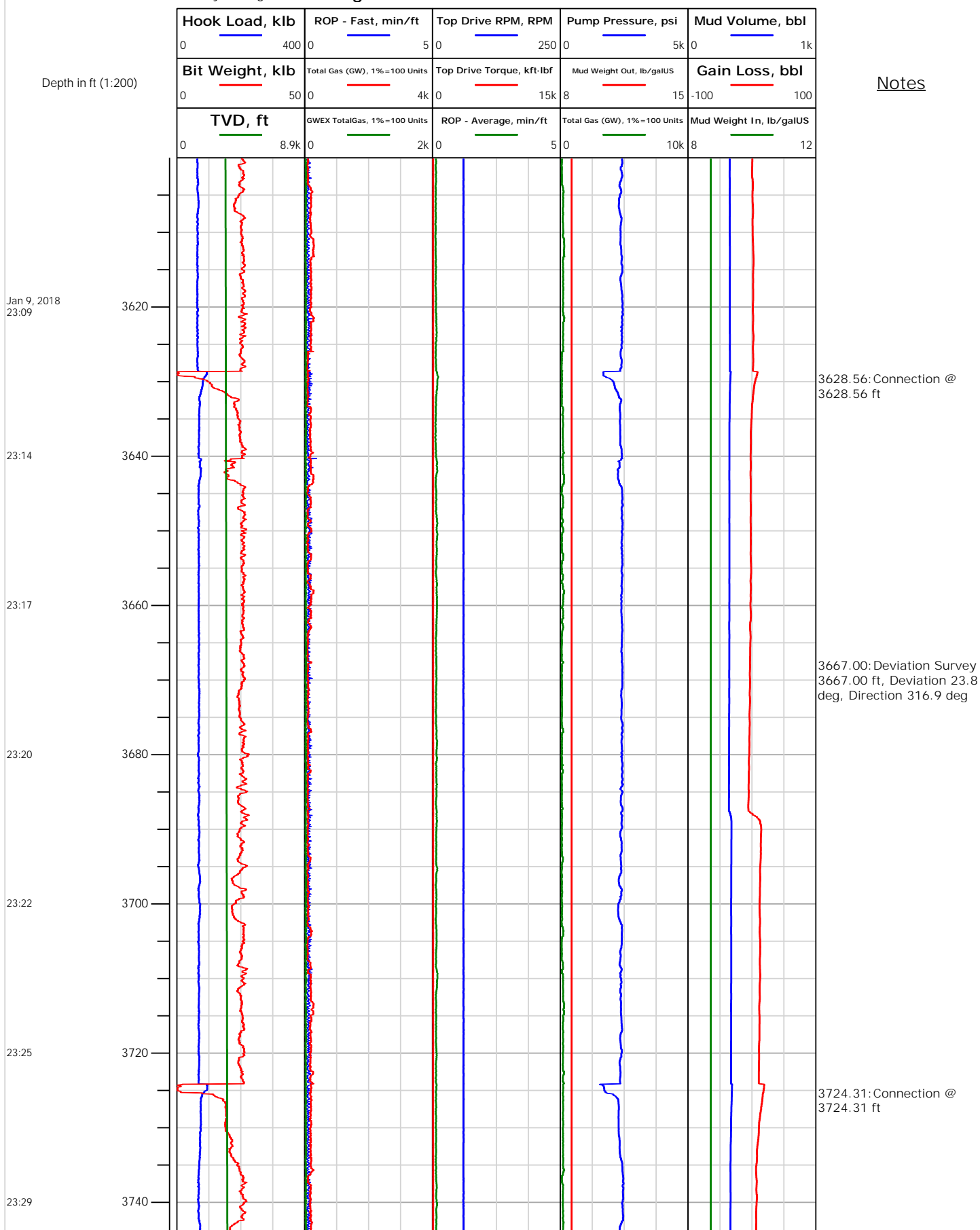
Electronic Drilling Recorder

Operator: Laramie Energy
Contractor: Helmerich & Payne Drlg Co

Well Name: Nichols 0994-24-02W
Rig: 290

Location: SW/4 Of NE/4

Notes





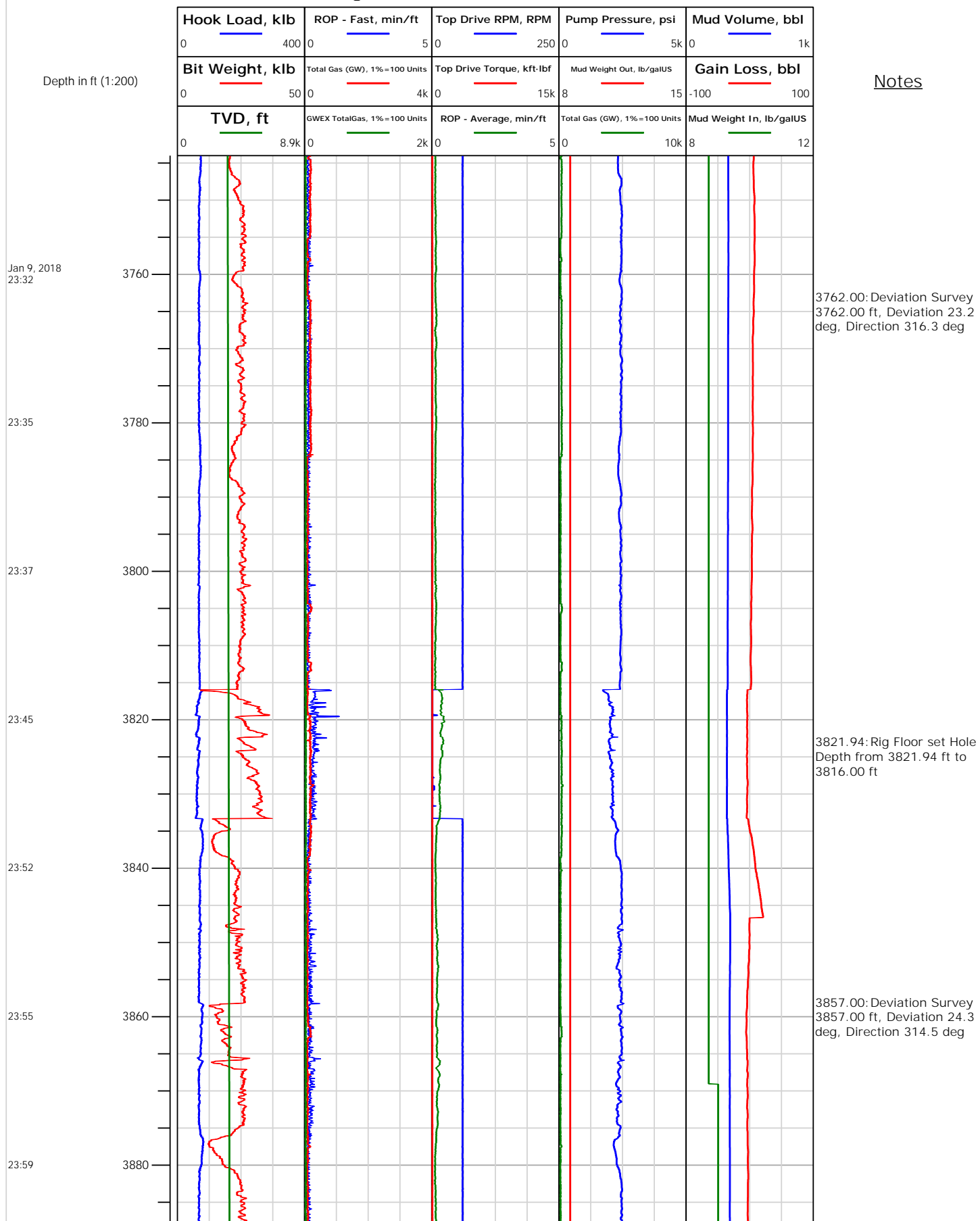
Electronic Drilling Recorder

Operator: Laramie Energy
Contractor: Helmerich & Payne Drlg Co

Well Name: Nichols 0994-24-02W
Rig: 290

Location: SW/4 Of NE/4

Notes





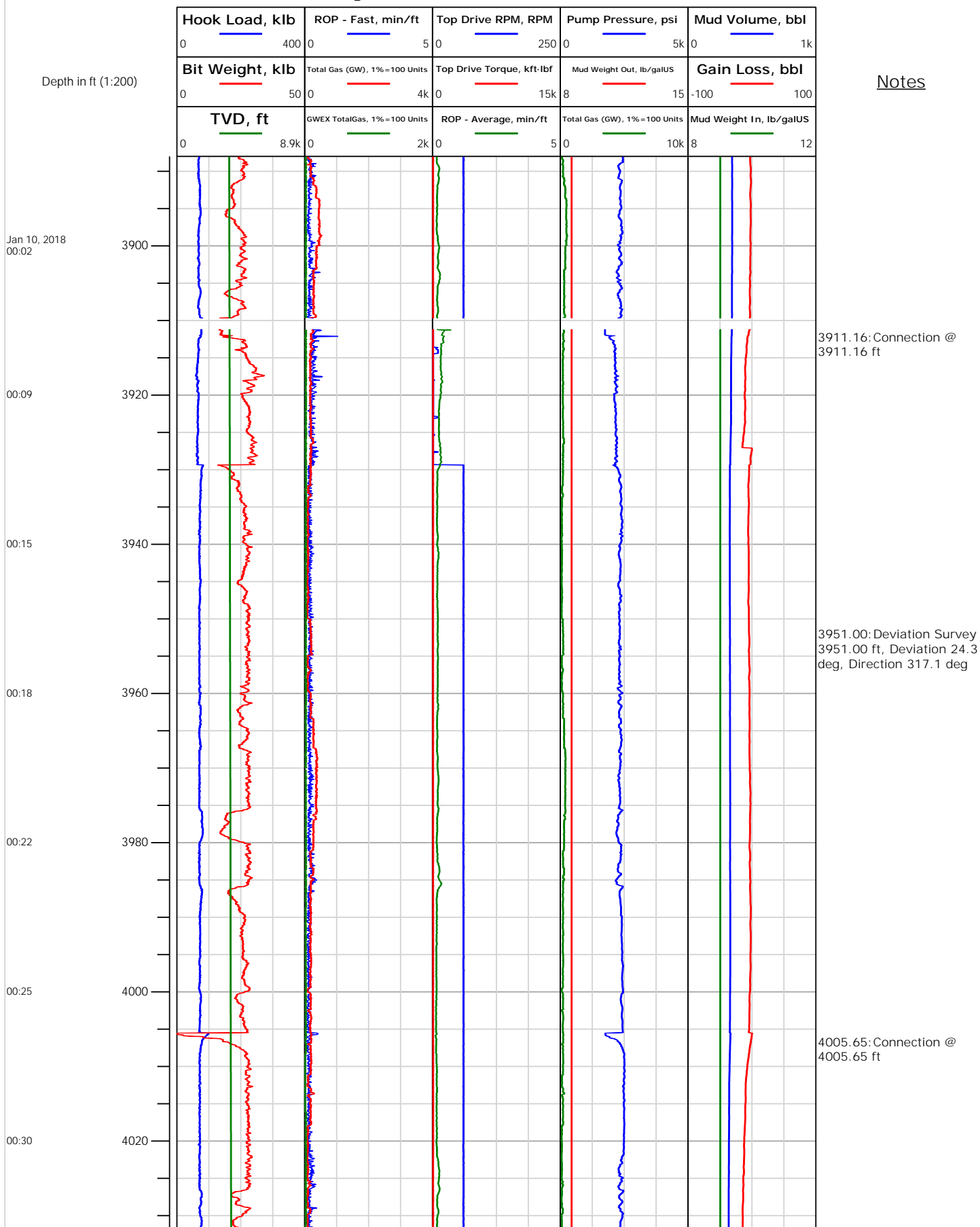
Electronic Drilling Recorder

Operator: Laramie Energy
Contractor: Helmerich & Payne Drlg Co

Well Name: Nichols 0994-24-02W
Rig: 290

Location: SW/4 Of NE/4

Notes





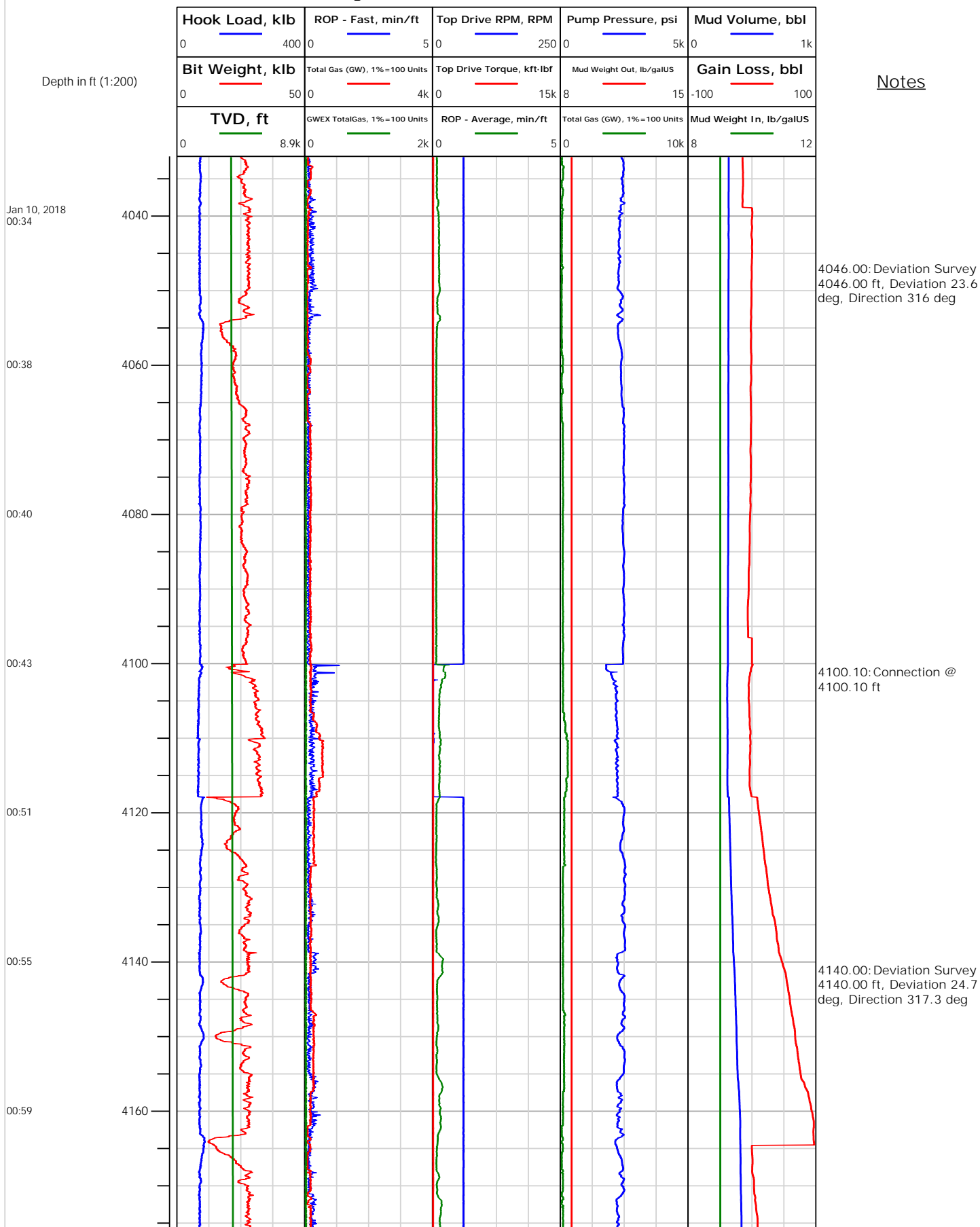
Electronic Drilling Recorder

Operator: Laramie Energy
Contractor: Helmerich & Payne Drlg Co

Well Name: Nichols 0994-24-02W
Rig: 290

Location: SW/4 Of NE/4

Notes





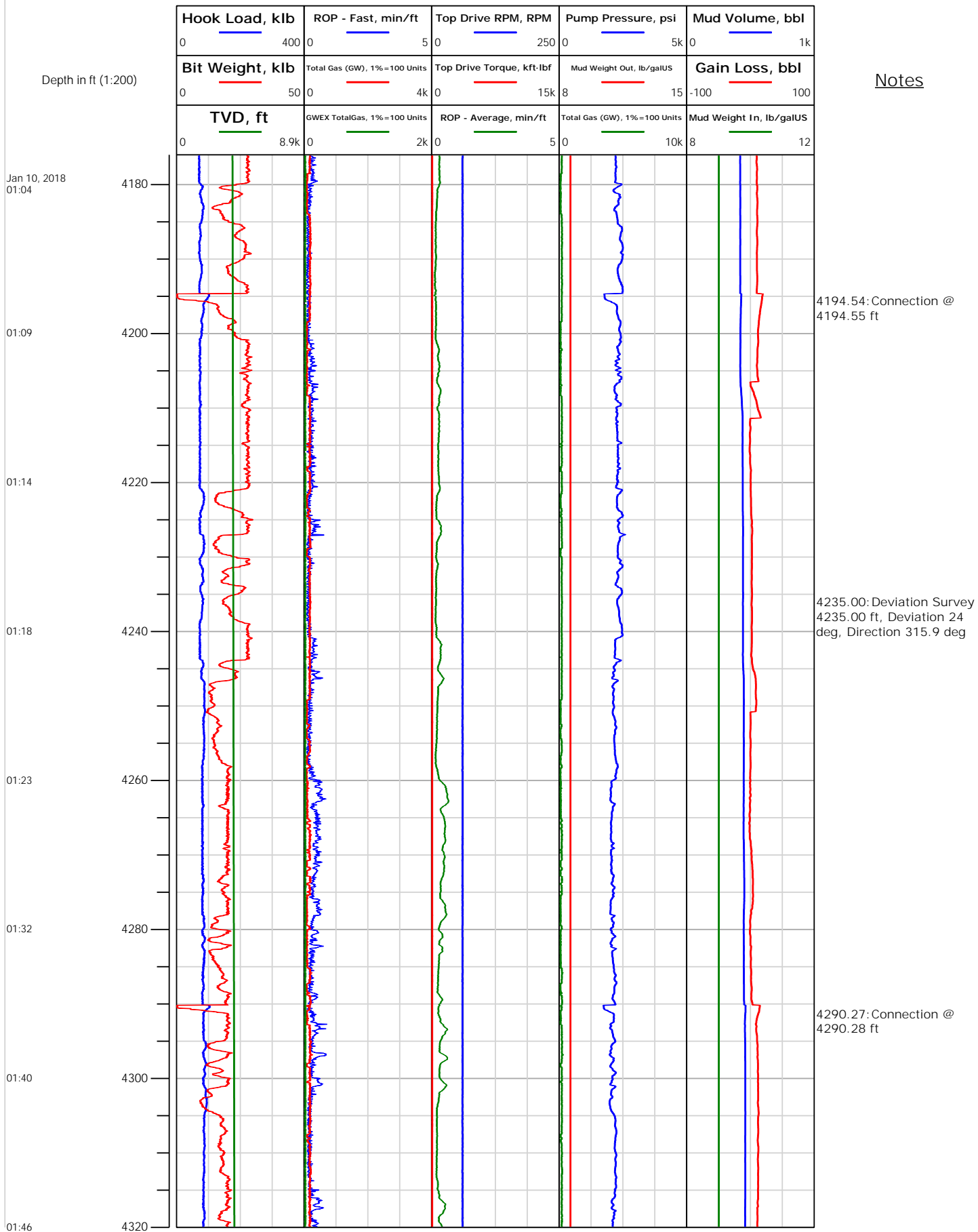
Electronic Drilling Recorder

Operator: Laramie Energy
Contractor: Helmerich & Payne Drlg Co

Well Name: Nichols 0994-24-02W
Rig: 290

Location: SW/4 Of NE/4

Notes





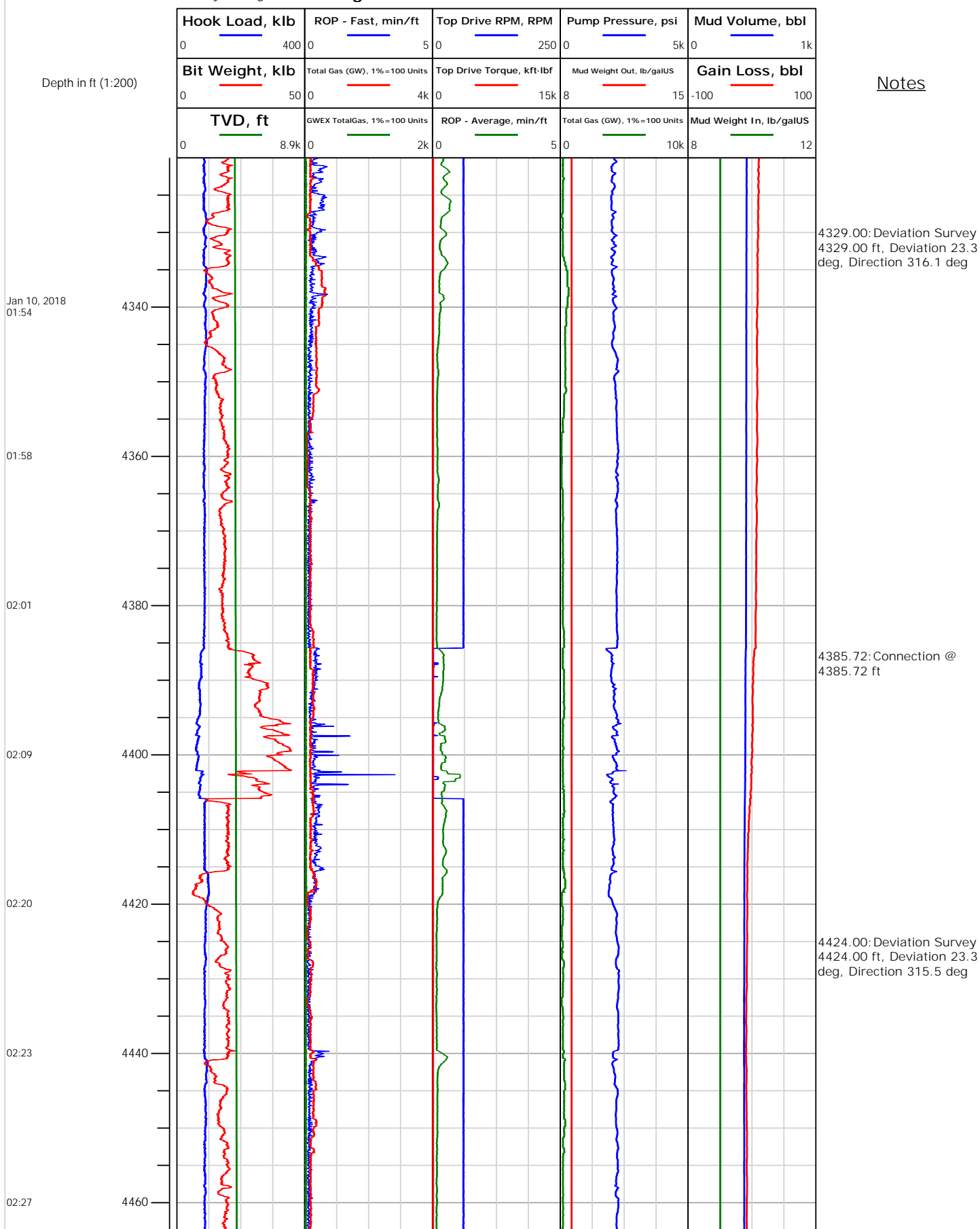
Electronic Drilling Recorder

Operator: Laramie Energy
Contractor: Helmerich & Payne Drlg Co

Well Name: Nichols 0994-24-02W
Rig: 290

Location: SW/4 Of NE/4

Notes



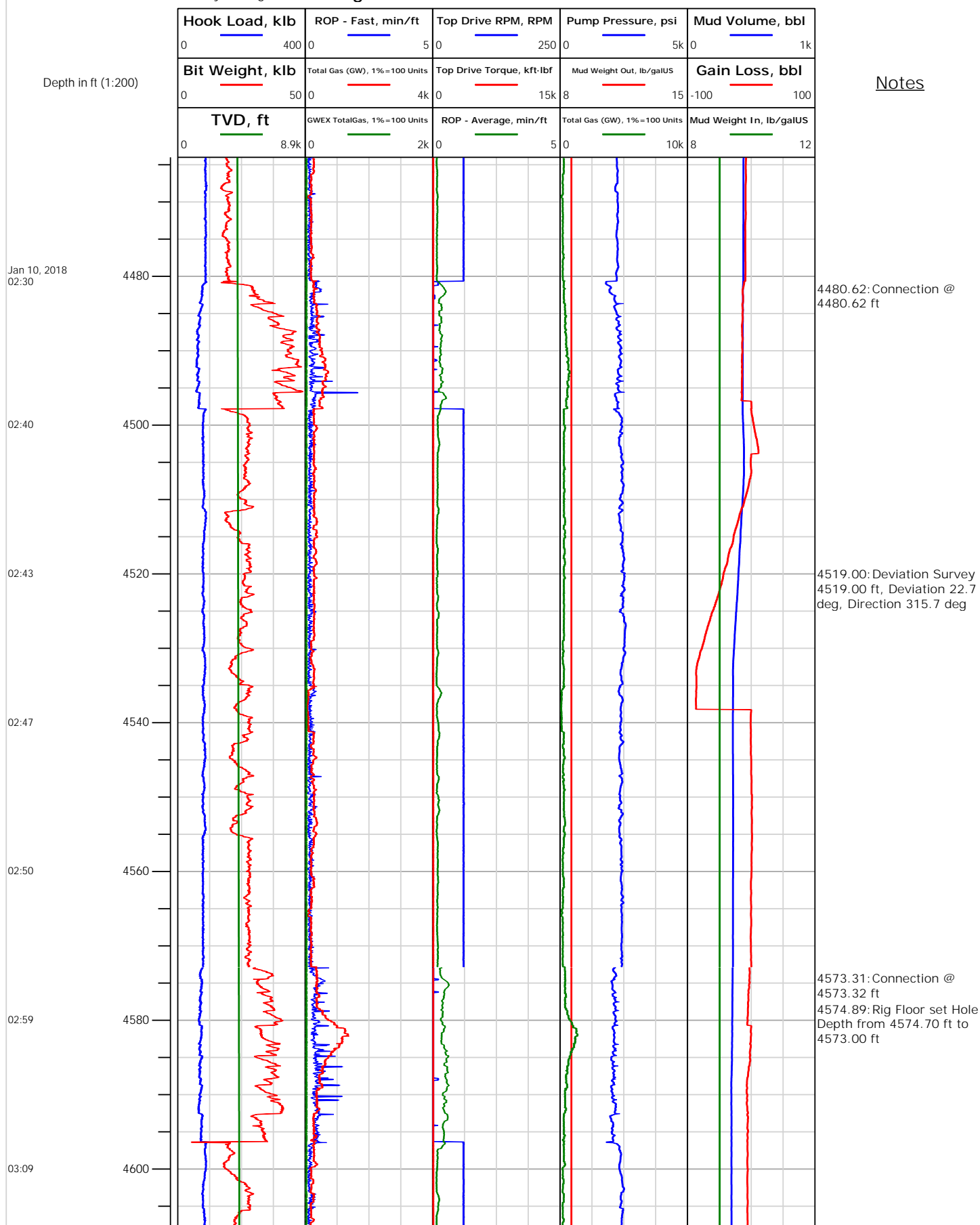


Electronic Drilling Recorder

Operator: Laramie Energy
Contractor: Helmerich & Payne Drlg Co

Well Name: Nichols 0994-24-02W
Rig: 290

Location: SW/4 Of NE/4





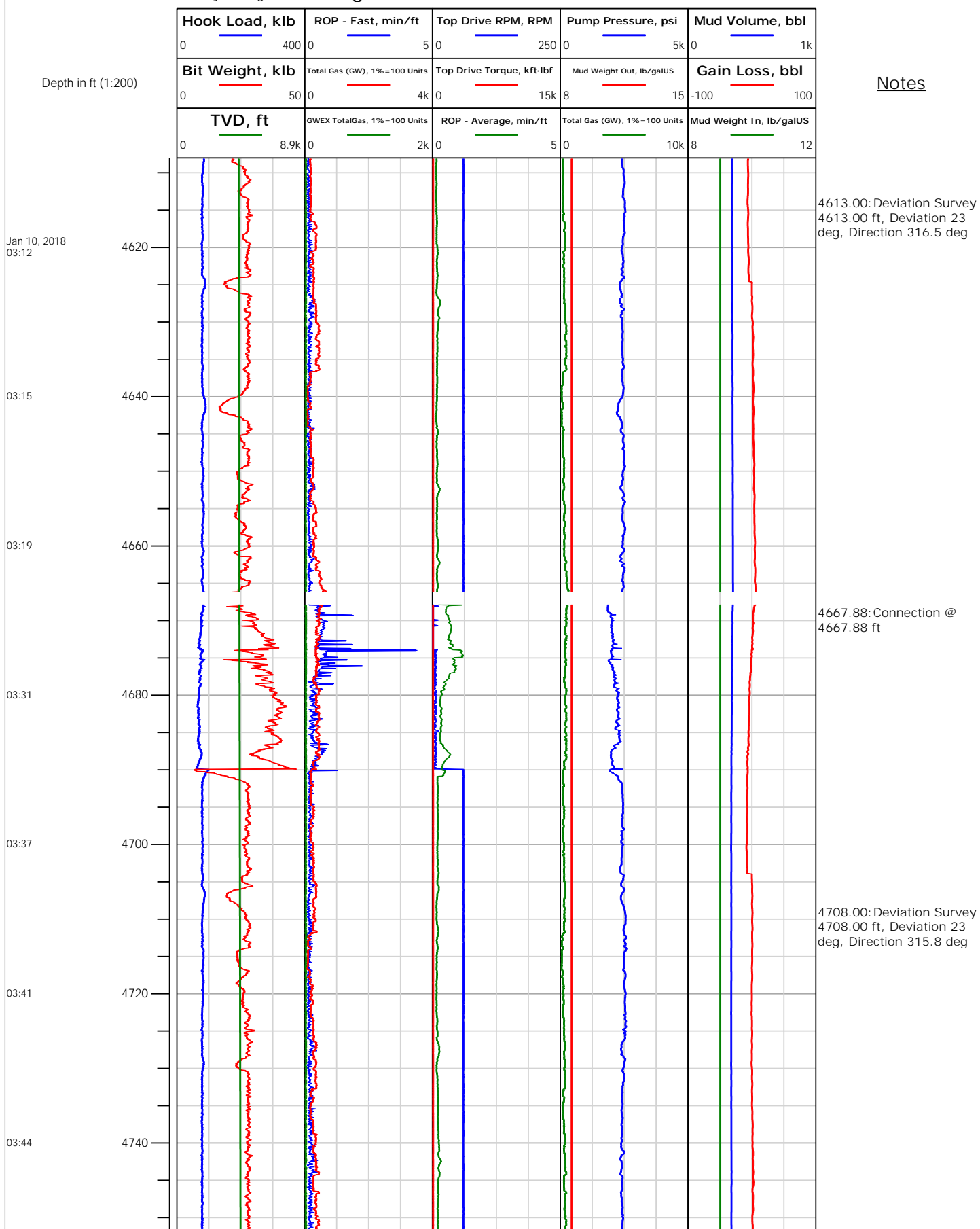
Electronic Drilling Recorder

Operator: Laramie Energy
Contractor: Helmerich & Payne Drlg Co

Well Name: Nichols 0994-24-02W
Rig: 290

Location: SW/4 Of NE/4

Notes





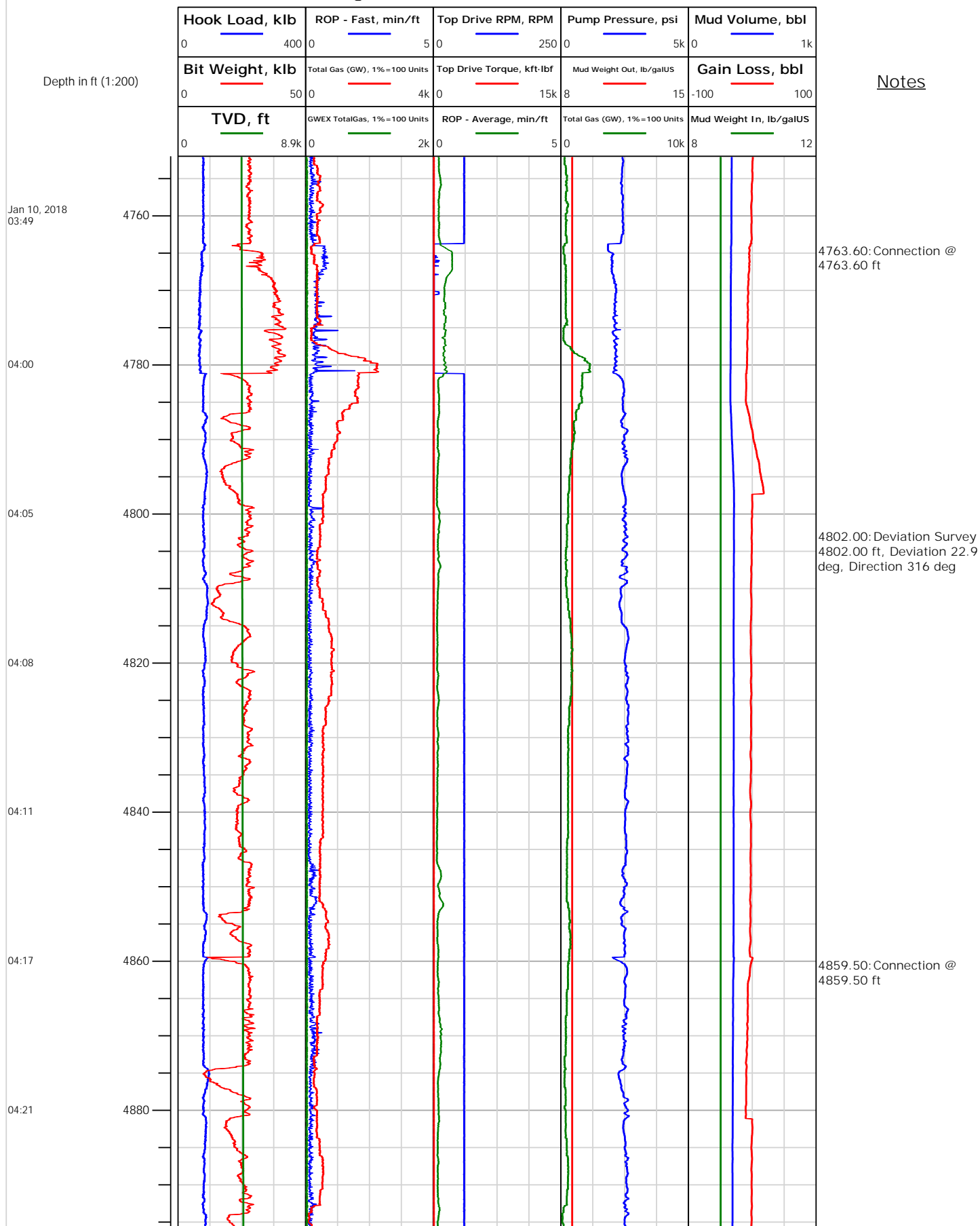
Electronic Drilling Recorder

Operator: Laramie Energy
Contractor: Helmerich & Payne Drlg Co

Well Name: Nichols 0994-24-02W
Rig: 290

Location: SW/4 Of NE/4

Notes



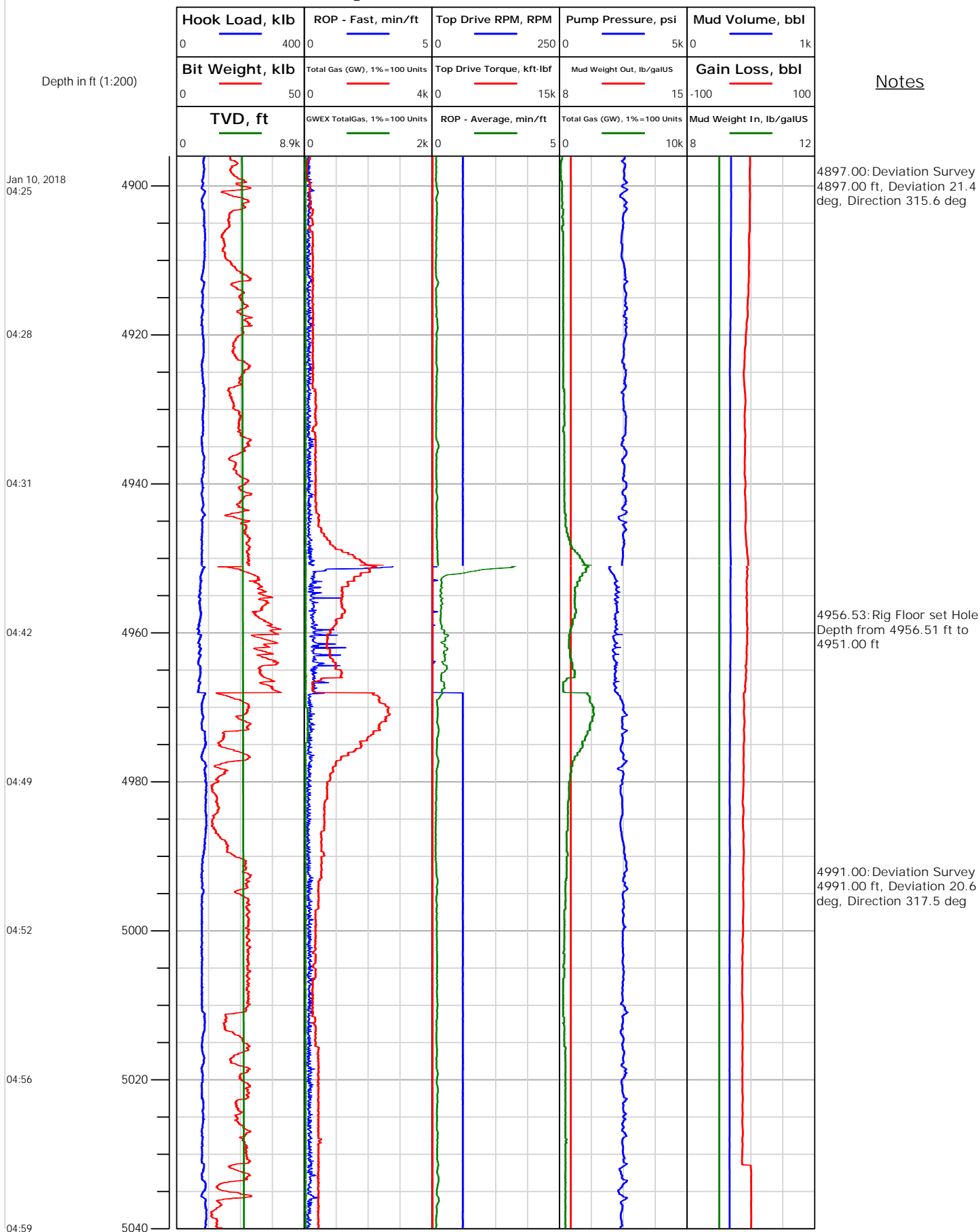


Electronic Drilling Recorder

Operator: Laramie Energy
Contractor: Helmerich & Payne Drlg Co

Well Name: Nichols 0994-24-02W
Rig: 290

Location: SW/4 Of NE/4



Notes



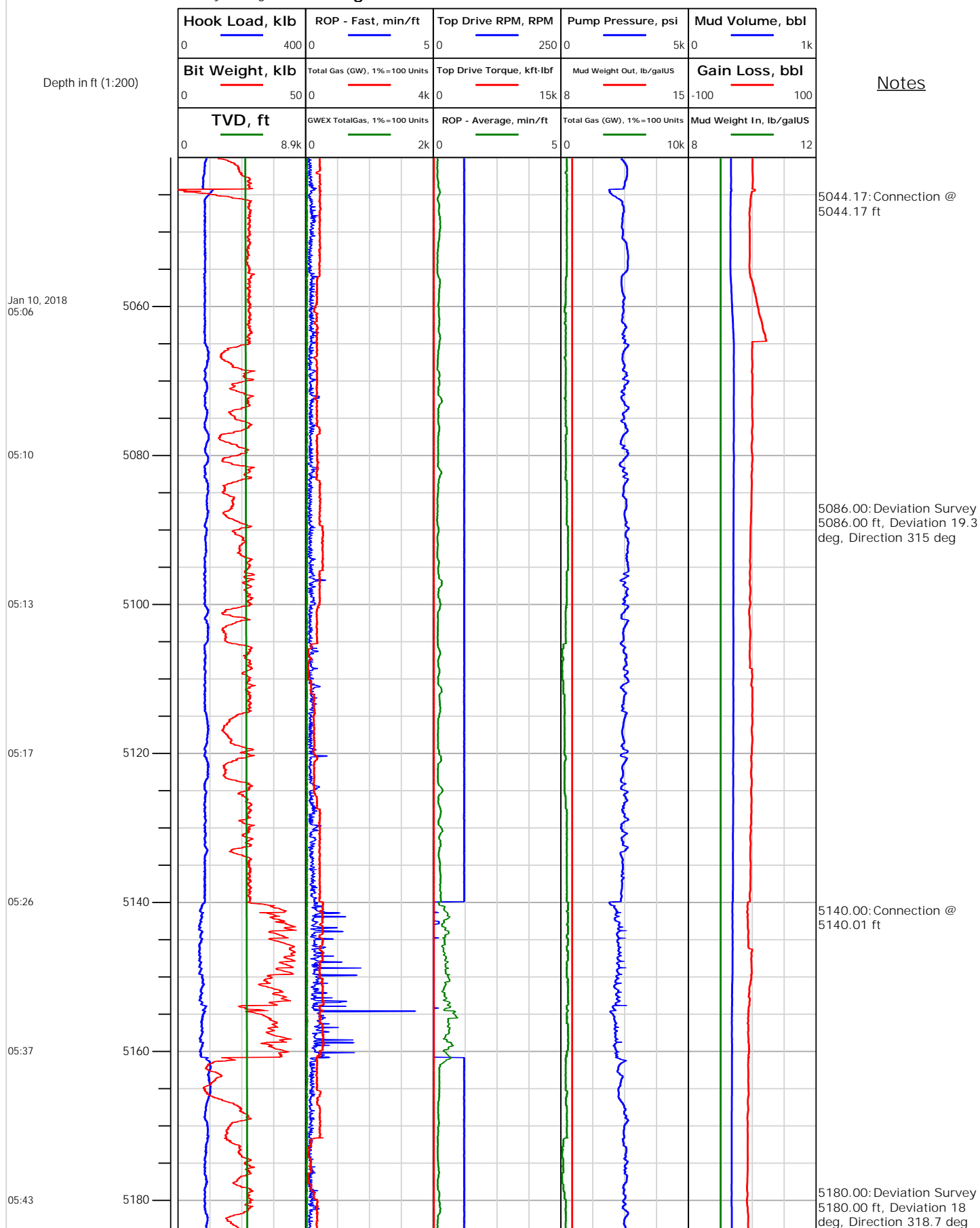
Electronic Drilling Recorder

Operator: Laramie Energy
Contractor: Helmerich & Payne Drlg Co

Well Name: Nichols 0994-24-02W
Rig: 290

Location: SW/4 Of NE/4

Notes





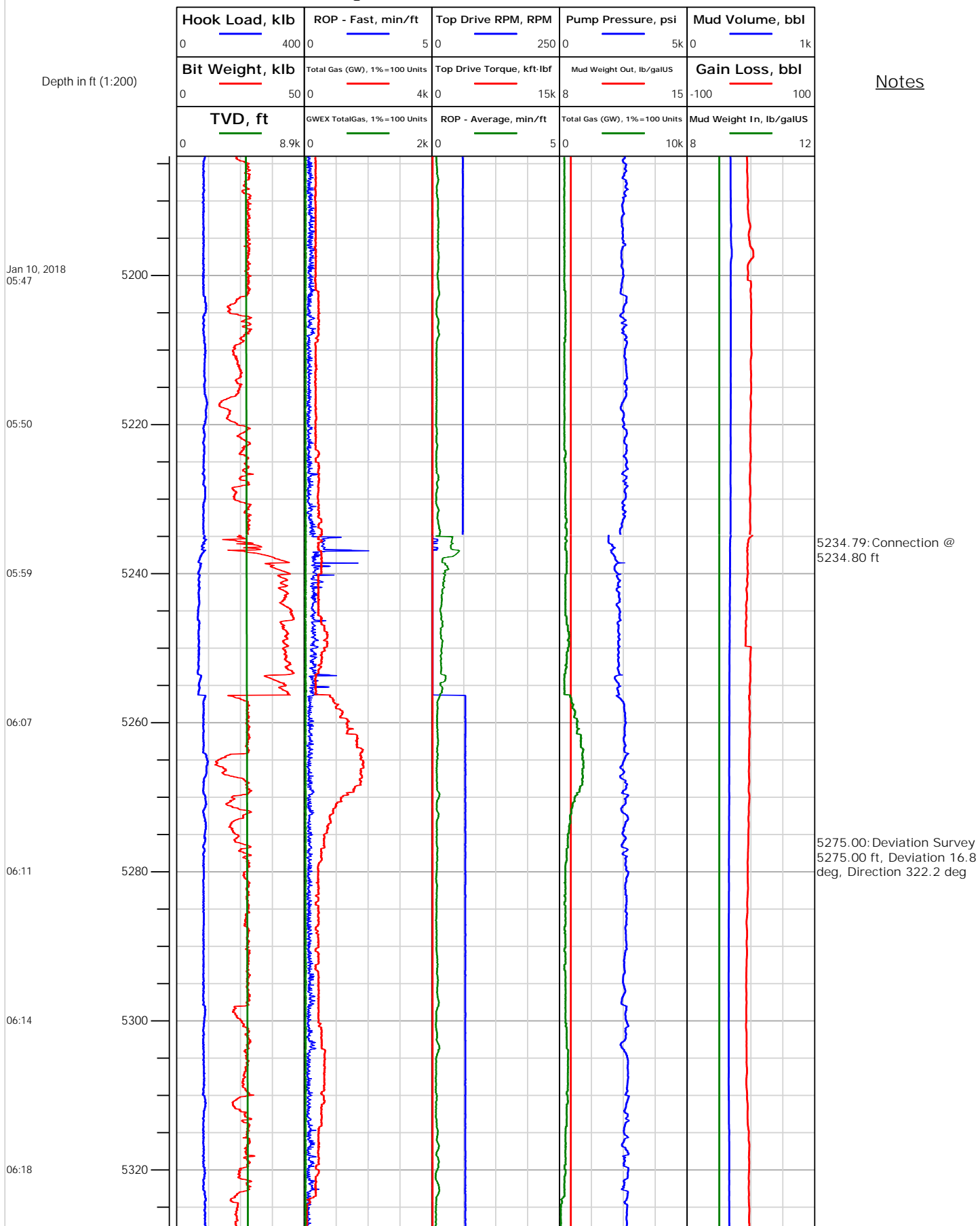
Electronic Drilling Recorder

Operator: Laramie Energy
Contractor: Helmerich & Payne Drlg Co

Well Name: Nichols 0994-24-02W
Rig: 290

Location: SW/4 Of NE/4

Notes





Electronic Drilling Recorder

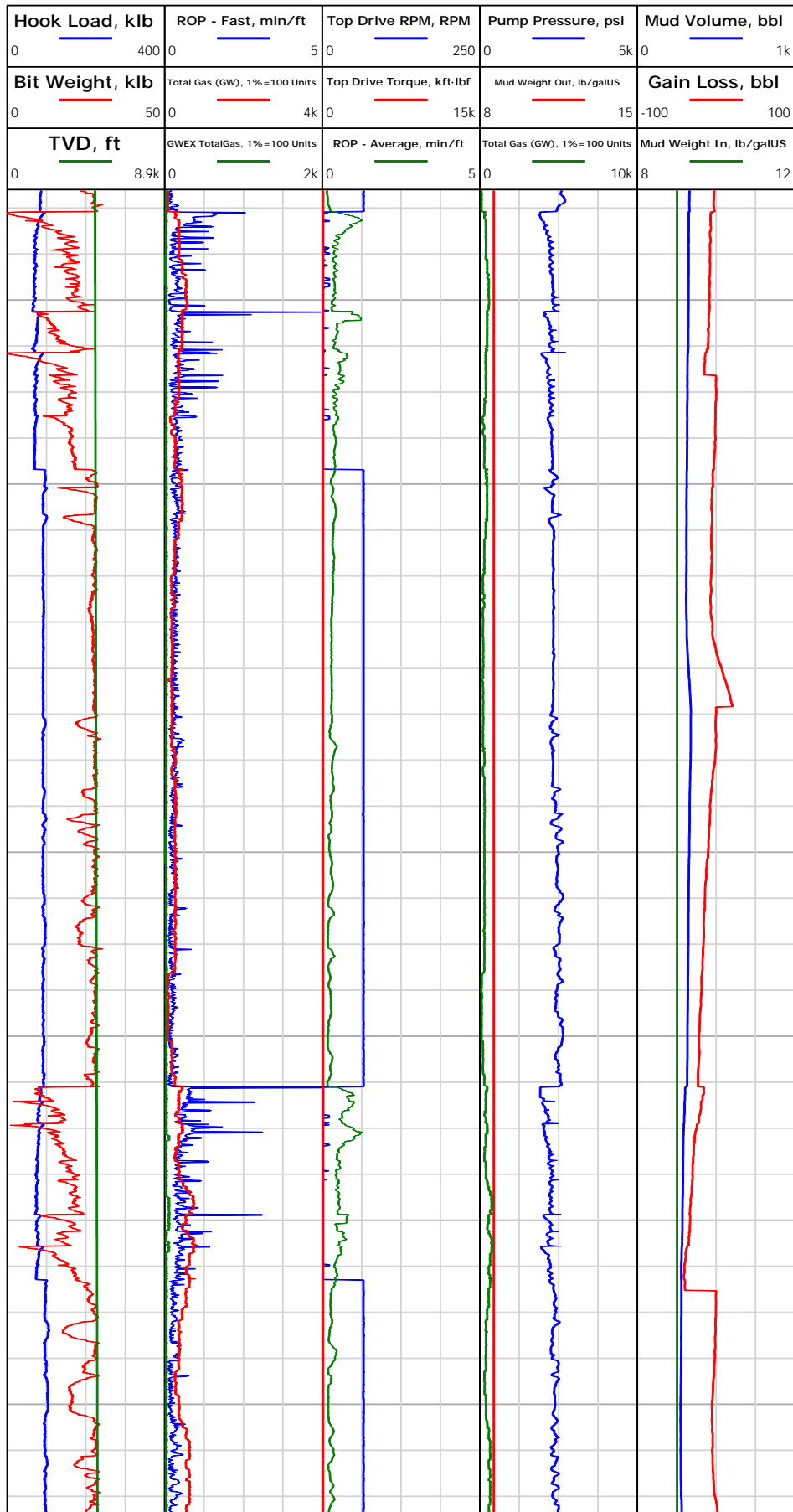
Operator: Laramie Energy
Contractor: Helmerich & Payne Drlg Co

Well Name: Nichols 0994-24-02W
Rig: 290

Location: SW/4 Of NE/4

Notes

Depth in ft (1:200)



Jan 10, 2018
06:29

06:41

06:48

06:53

06:58

07:14

07:22



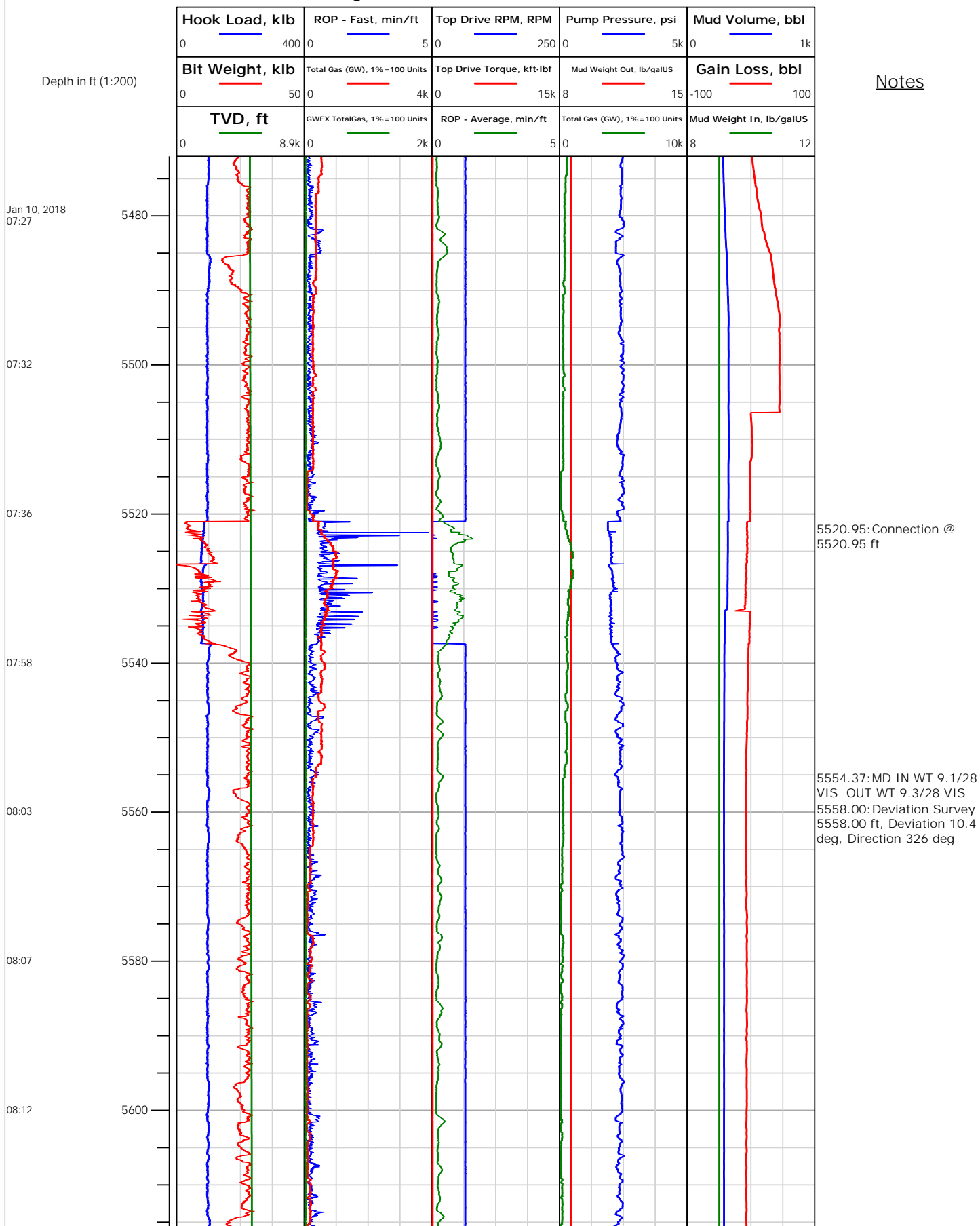
Electronic Drilling Recorder

Operator: Laramie Energy
Contractor: Helmerich & Payne Drlg Co

Well Name: Nichols 0994-24-02W
Rig: 290

Location: SW/4 Of NE/4

Notes





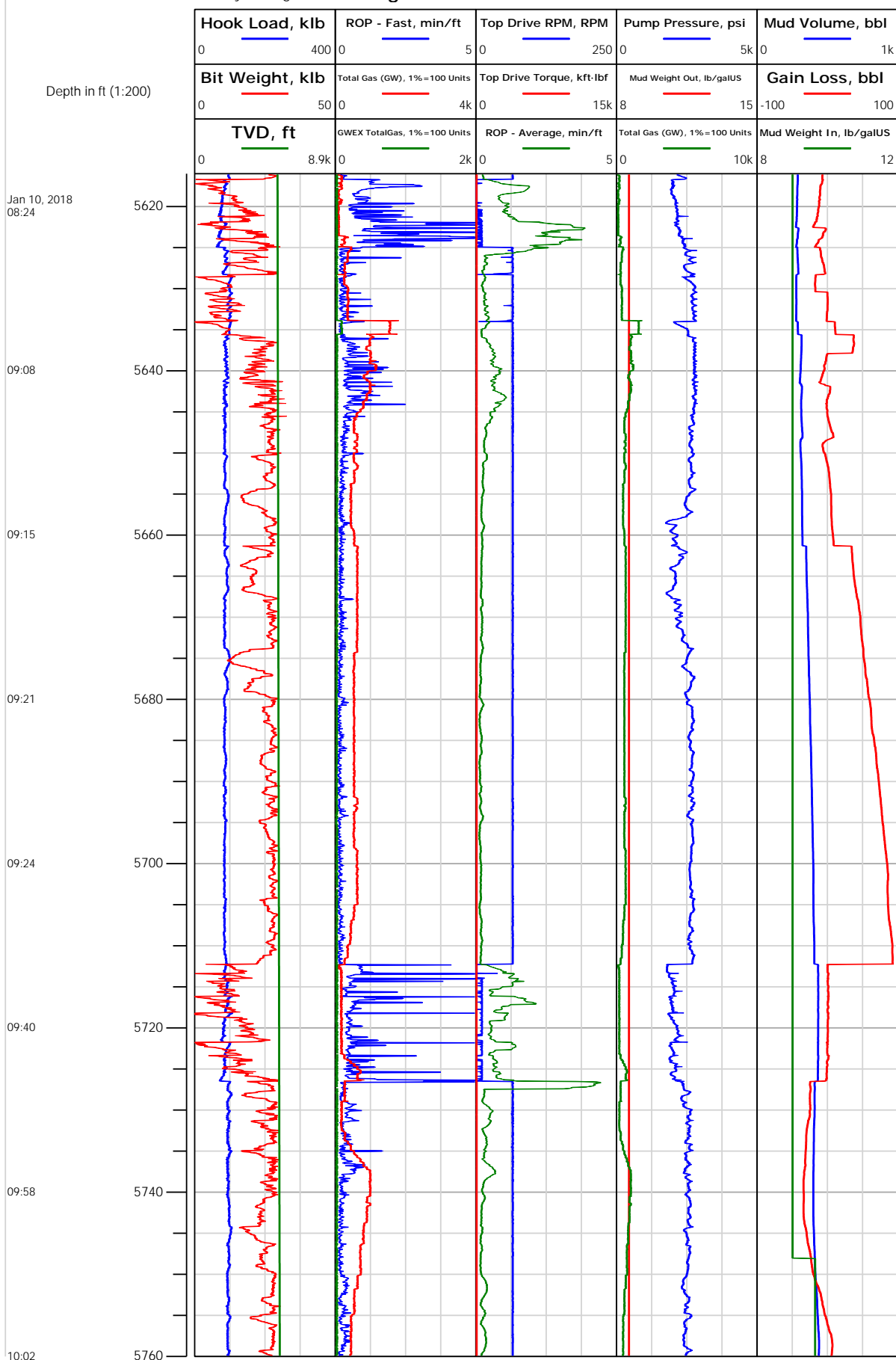
Electronic Drilling Recorder

Operator: Laramie Energy
Contractor: Helmerich & Payne Drlg Co

Well Name: Nichols 0994-24-02W
Rig: 290

Location: SW/4 Of NE/4

Notes





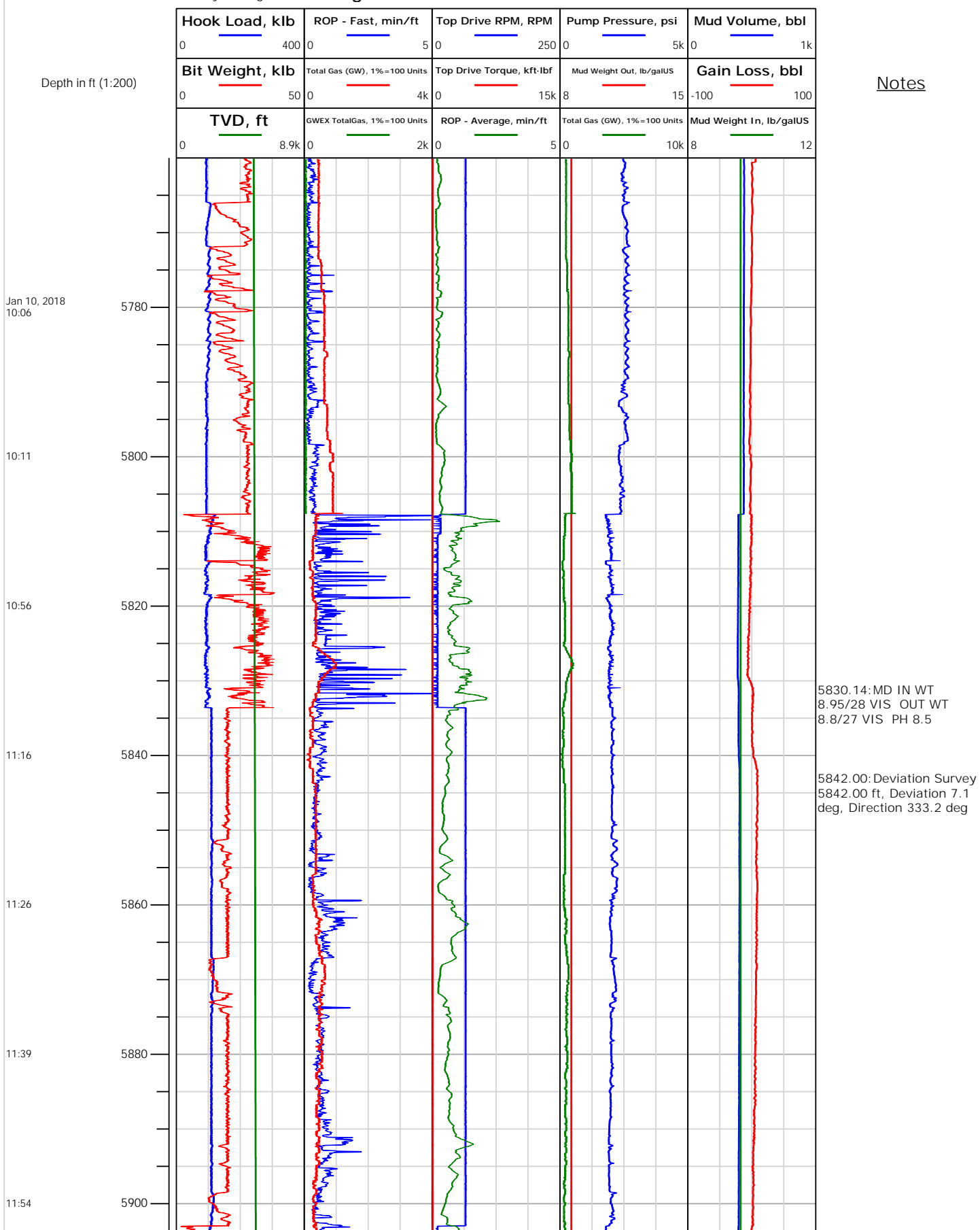
Electronic Drilling Recorder

Operator: Laramie Energy
Contractor: Helmerich & Payne Drlg Co

Well Name: Nichols 0994-24-02W
Rig: 290

Location: SW/4 Of NE/4

Notes





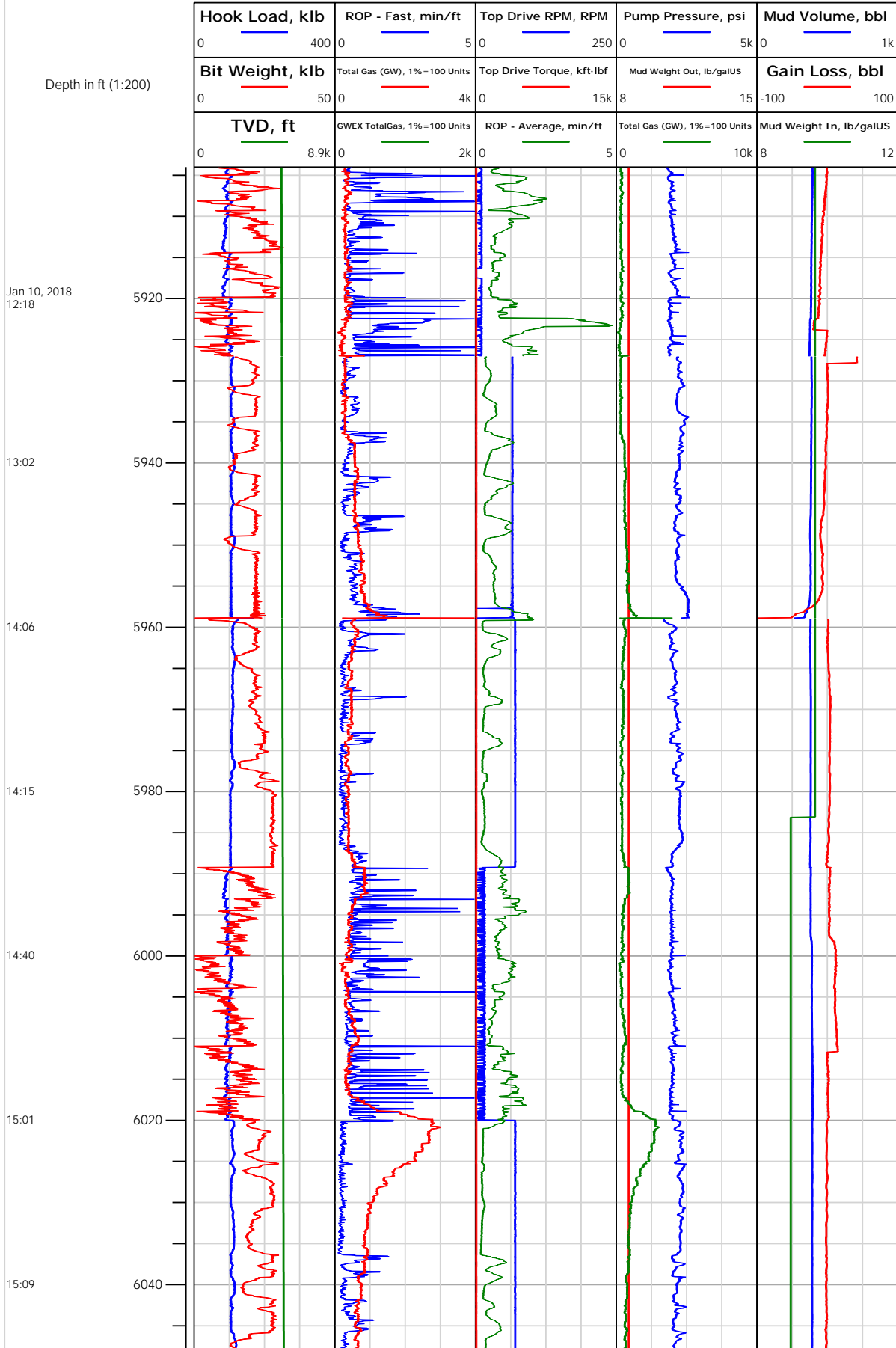
Electronic Drilling Recorder

Operator: Laramie Energy
Contractor: Helmerich & Payne Drlg Co

Well Name: Nichols 0994-24-02W
Rig: 290

Location: SW/4 Of NE/4

Notes



5904.91: MD IN WT
8.95/27 VIS OUT WT
8.95/27 VIS PH 9.0

5936.00: Deviation Survey
5936.00 ft, Deviation 6
deg, Direction 330.2 deg
5936.62: Rig Floor set Hole
Depth from 5935.60 ft to
5927.00 ft
5939.71: MD IN WT 8.9/28
VIS OUT WT 8.9/28 VIS
PH 9.0

5984.94: Rig Floor set Hole
Depth from 5984.94 ft to
5959.00 ft
5984.94: MD IN WT 9.0/40
VIS OUT WT 8.9/27 VIS
PH 9.0
5989.32: Connection @
5989.32 ft

6031.00: Deviation Survey
6031.00 ft, Deviation 4.1
deg, Direction 342.3 deg



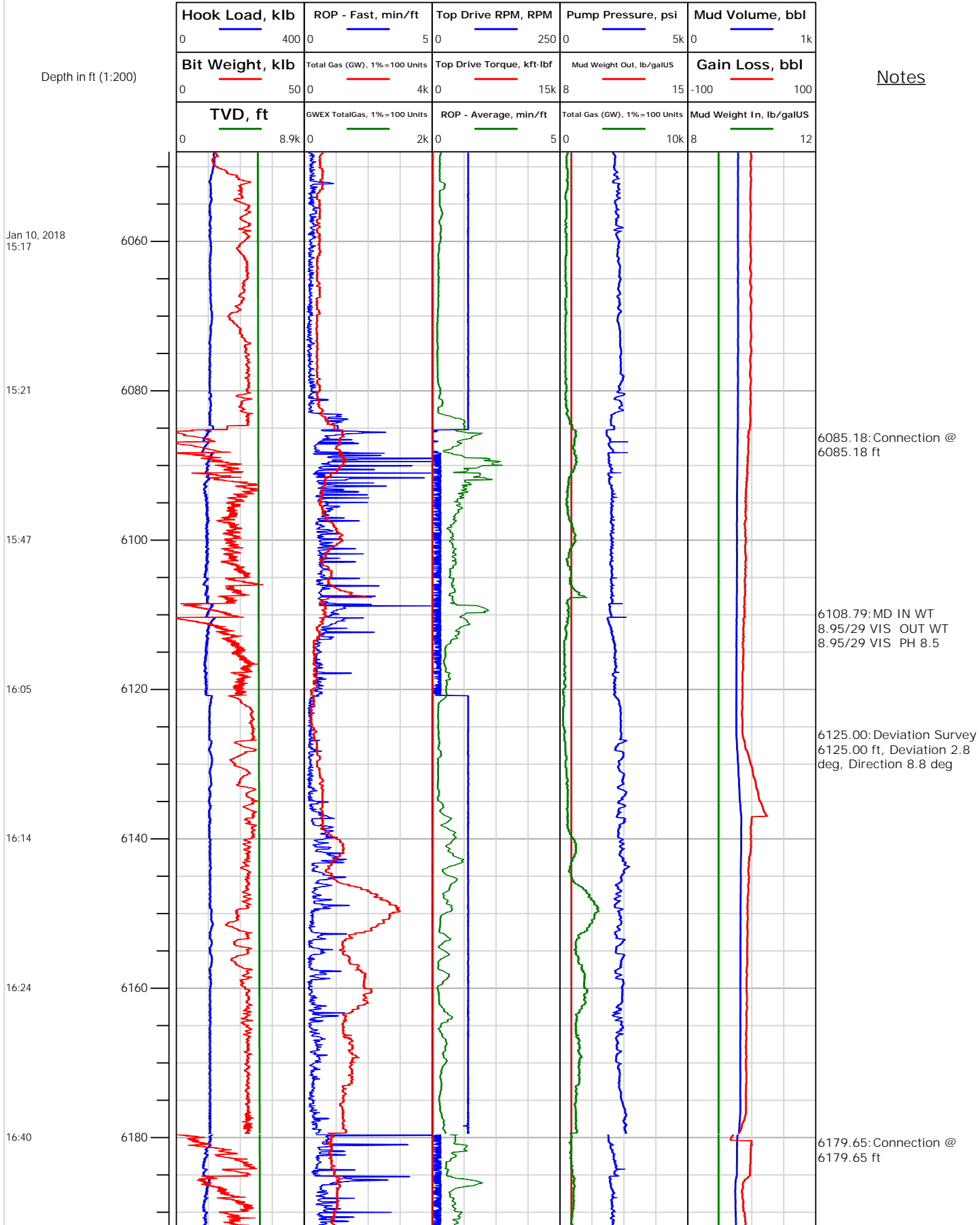
Electronic Drilling Recorder

Operator: Laramie Energy
Contractor: Helmerich & Payne Drlg Co

Well Name: Nichols 0994-24-02W
Rig: 290

Location: SW/4 Of NE/4

Notes





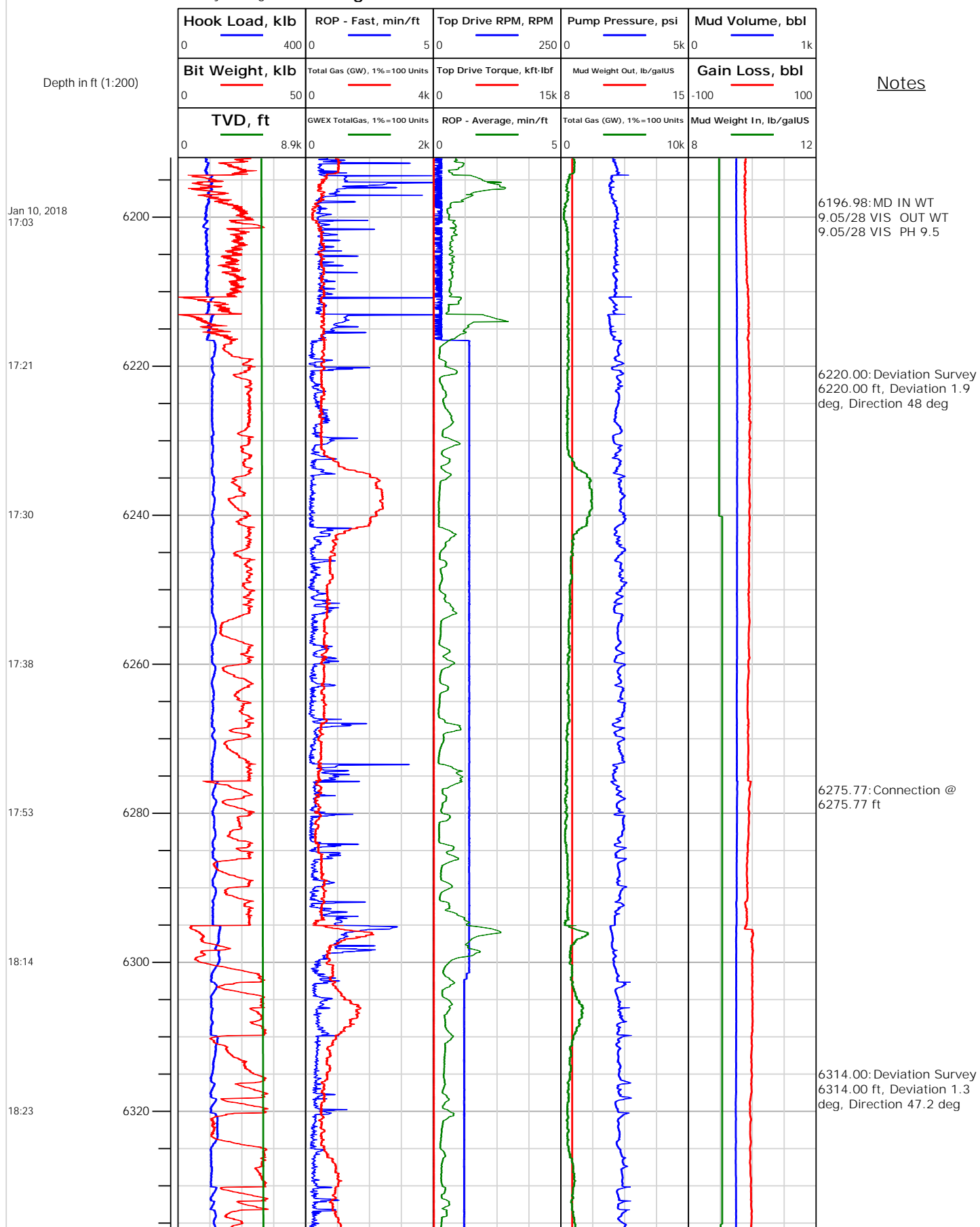
Electronic Drilling Recorder

Operator: Laramie Energy
Contractor: Helmerich & Payne Drlg Co

Well Name: Nichols 0994-24-02W
Rig: 290

Location: SW/4 Of NE/4

Notes





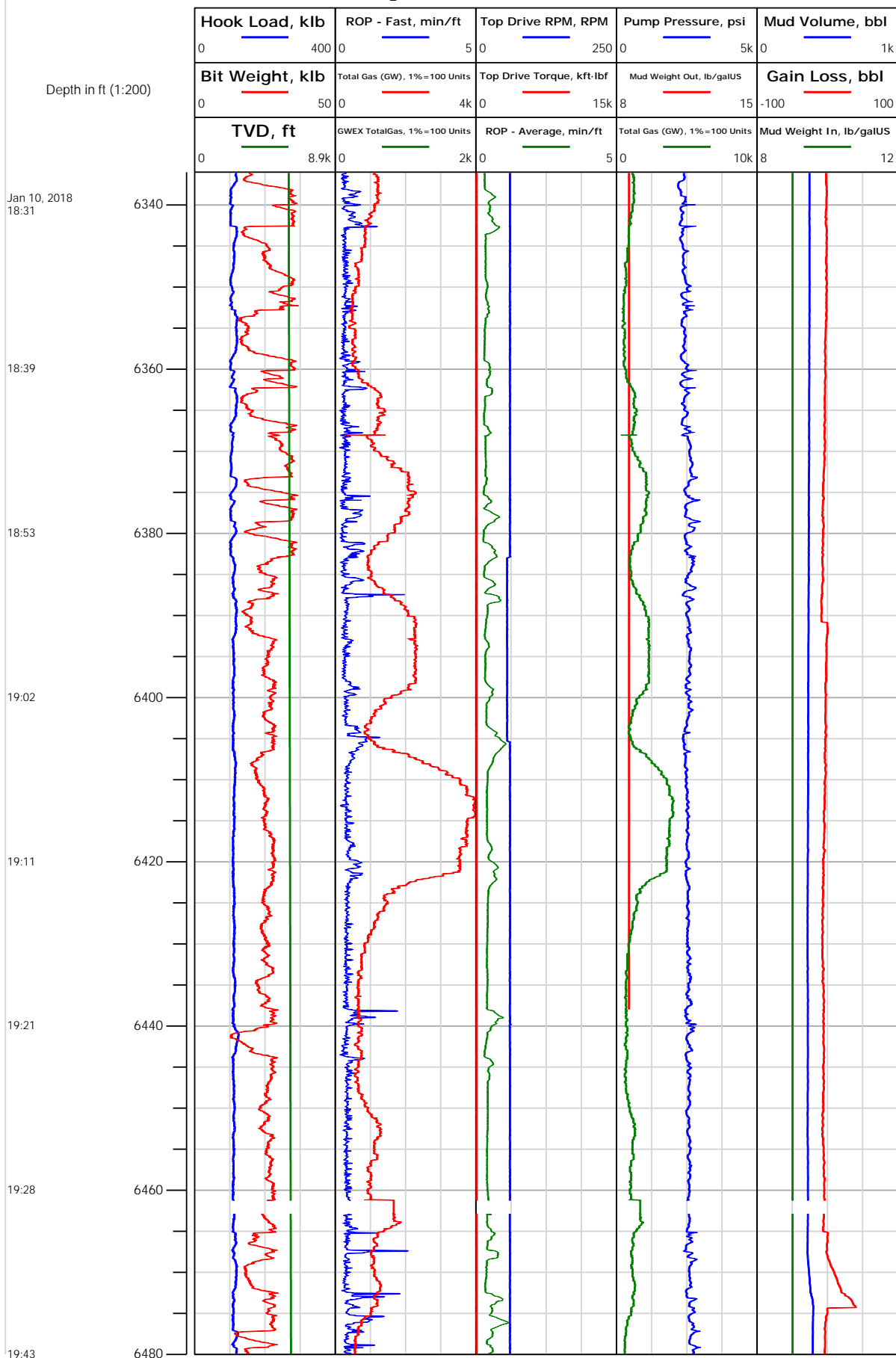
Electronic Drilling Recorder

Operator: Laramie Energy
Contractor: Helmerich & Payne Drlg Co

Well Name: Nichols 0994-24-02W
Rig: 290

Location: SW/4 Of NE/4

Notes





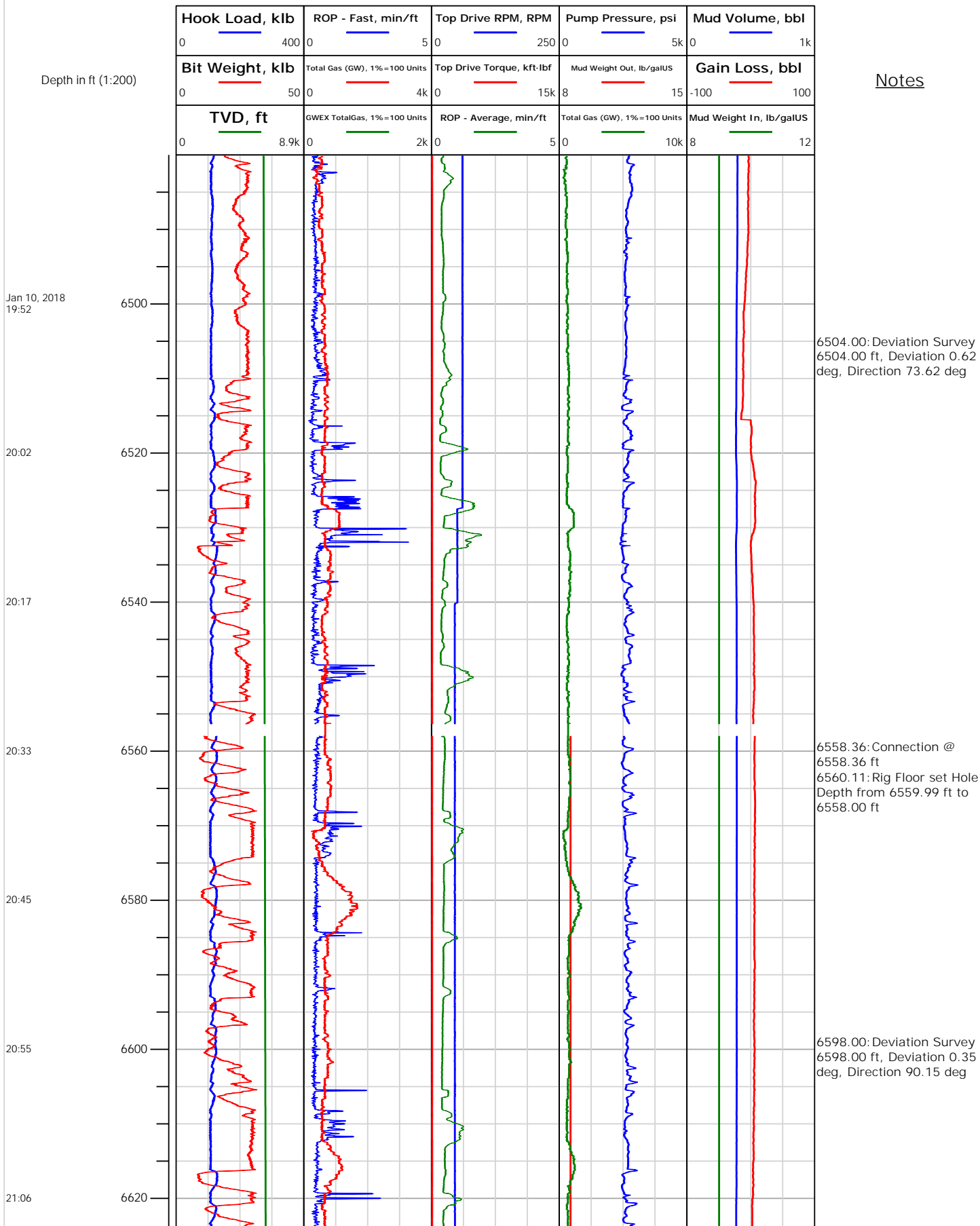
Electronic Drilling Recorder

Operator: Laramie Energy
Contractor: Helmerich & Payne Drlg Co

Well Name: Nichols 0994-24-02W
Rig: 290

Location: SW/4 Of NE/4

Notes





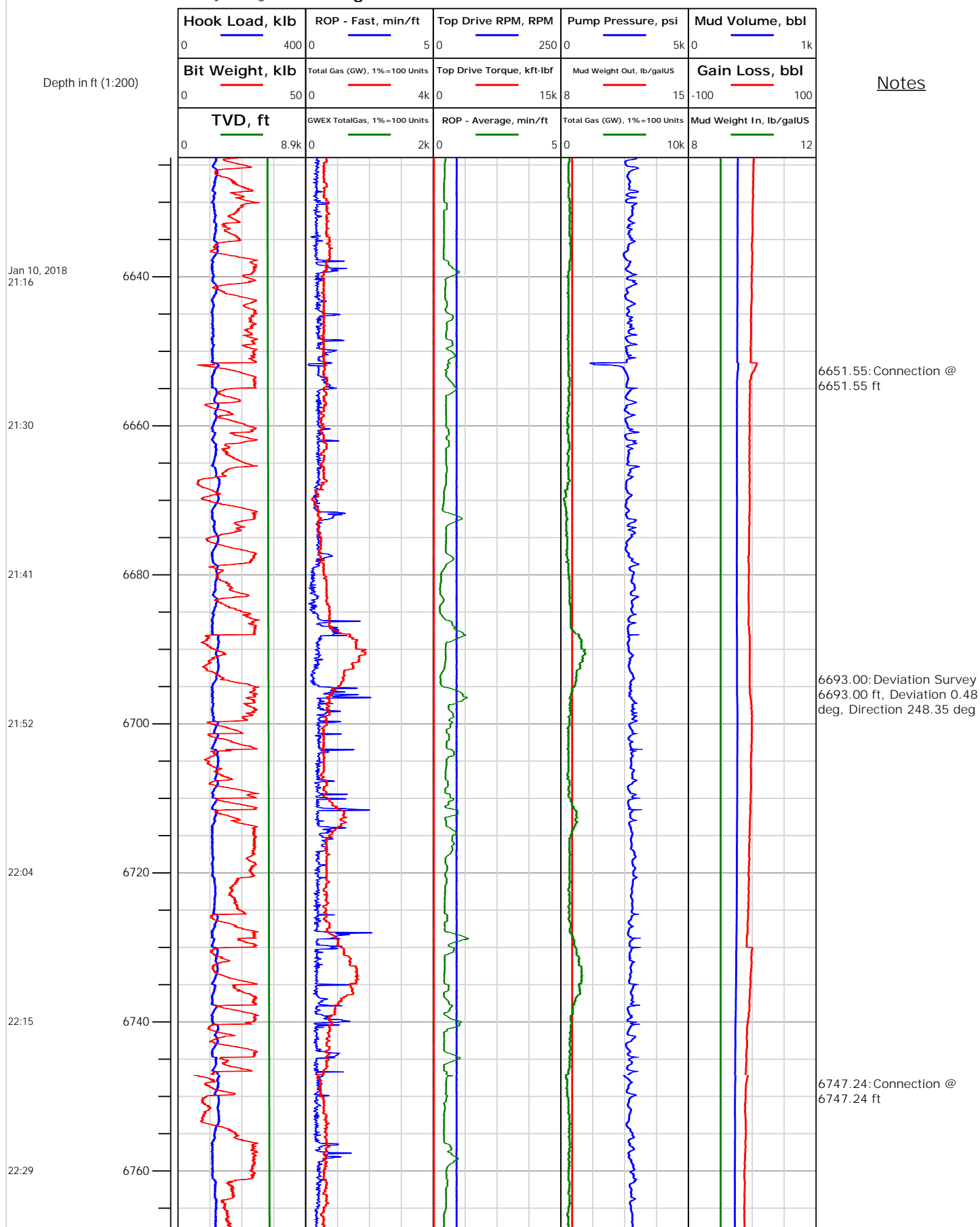
Electronic Drilling Recorder

Operator: Laramie Energy
Contractor: Helmerich & Payne Drlg Co

Well Name: Nichols 0994-24-02W
Rig: 290

Location: SW/4 Of NE/4

Notes





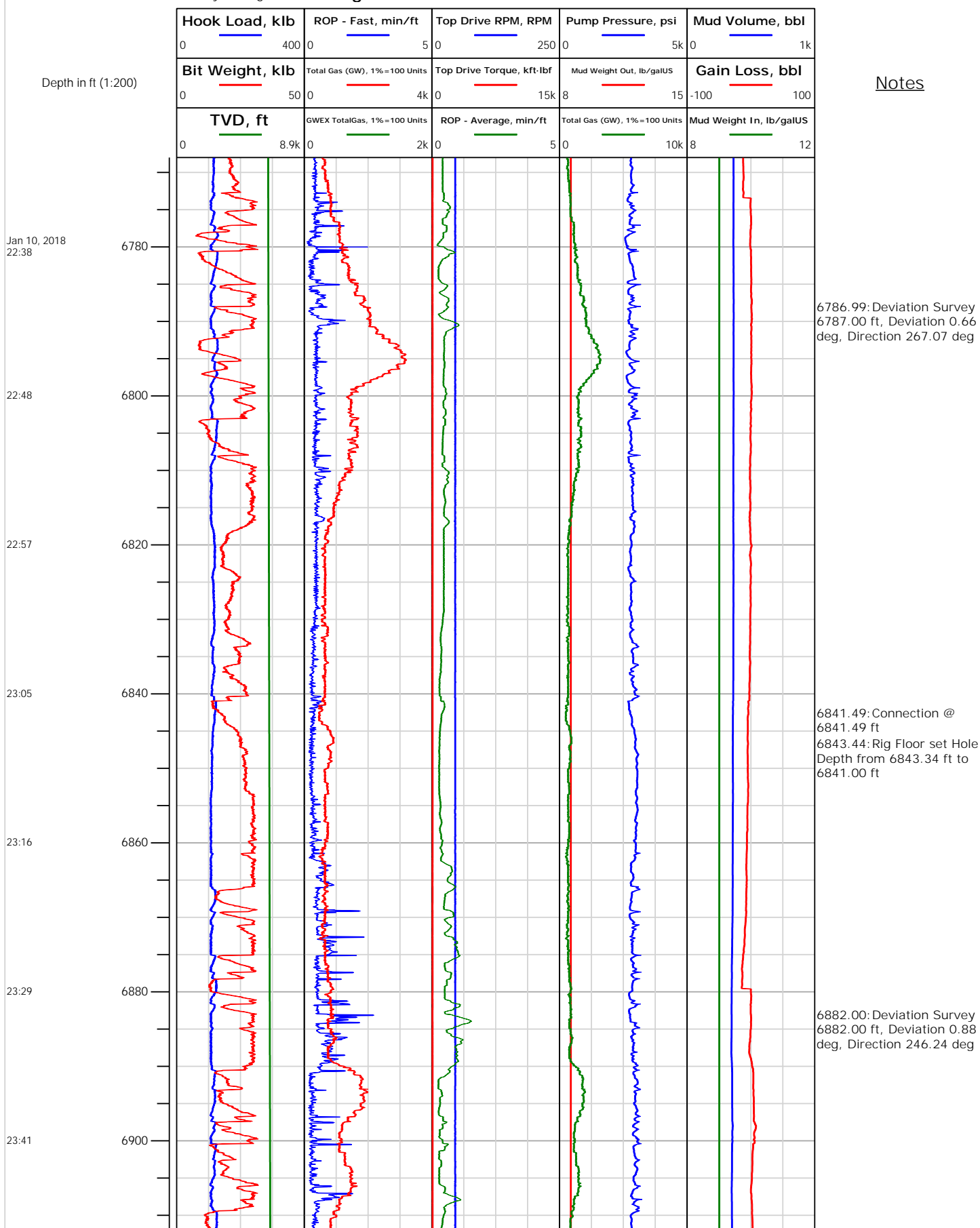
Electronic Drilling Recorder

Operator: Laramie Energy
Contractor: Helmerich & Payne Drlg Co

Well Name: Nichols 0994-24-02W
Rig: 290

Location: SW/4 Of NE/4

Notes



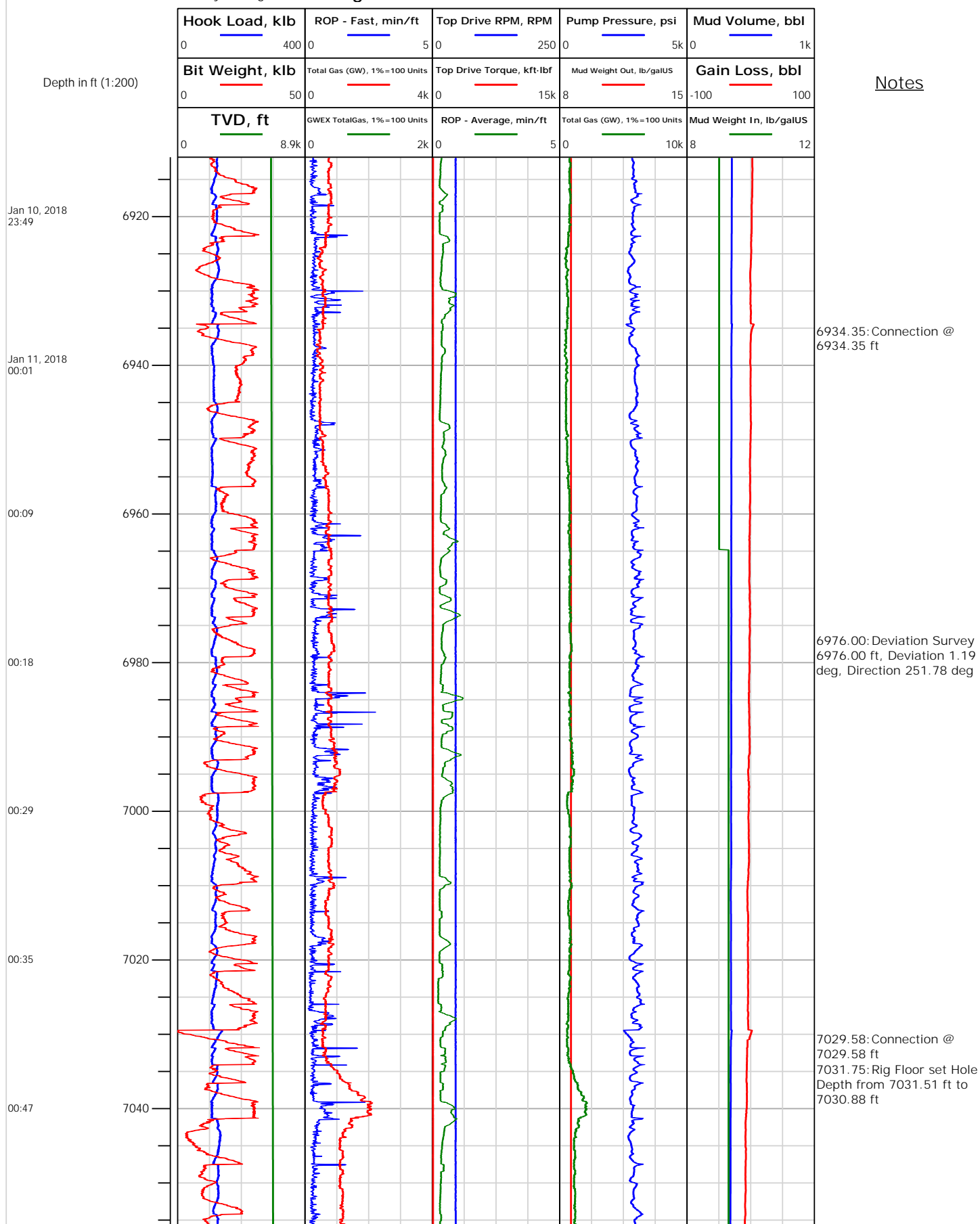


Electronic Drilling Recorder

Operator: Laramie Energy
Contractor: Helmerich & Payne Drlg Co

Well Name: Nichols 0994-24-02W
Rig: 290

Location: SW/4 Of NE/4





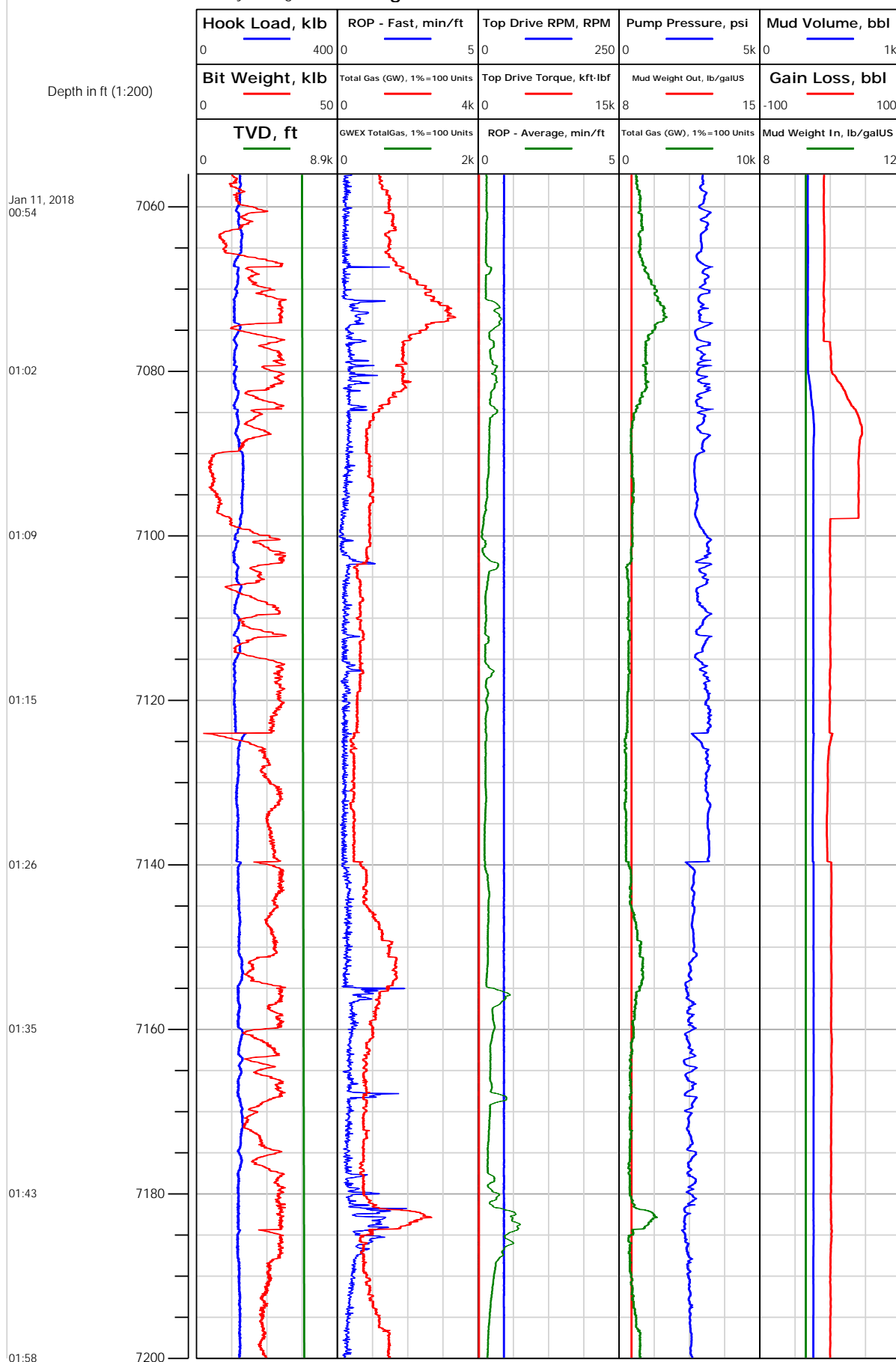
Electronic Drilling Recorder

Operator: Laramie Energy
Contractor: Helmerich & Payne Drlg Co

Well Name: Nichols 0994-24-02W
Rig: 290

Location: SW/4 Of NE/4

Notes





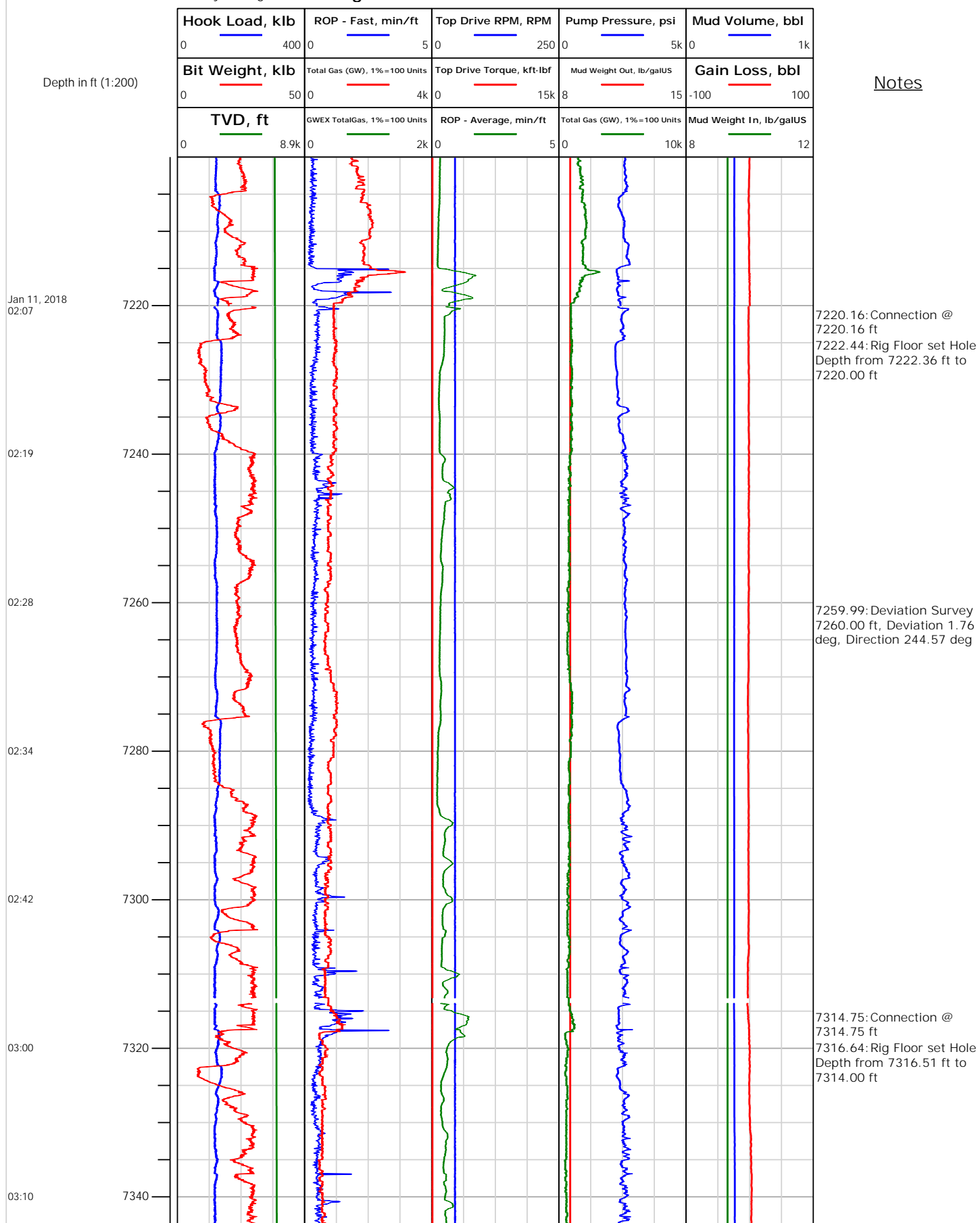
Electronic Drilling Recorder

Operator: Laramie Energy
Contractor: Helmerich & Payne Drlg Co

Well Name: Nichols 0994-24-02W
Rig: 290

Location: SW/4 Of NE/4

Notes





Electronic Drilling Recorder

Operator: Laramie Energy
Contractor: Helmerich & Payne Drlg Co

Well Name: Nichols 0994-24-02W
Rig: 290

Location: SW/4 Of NE/4

Notes

Depth in ft (1:200)

Jan 11, 2018
03:23

03:36

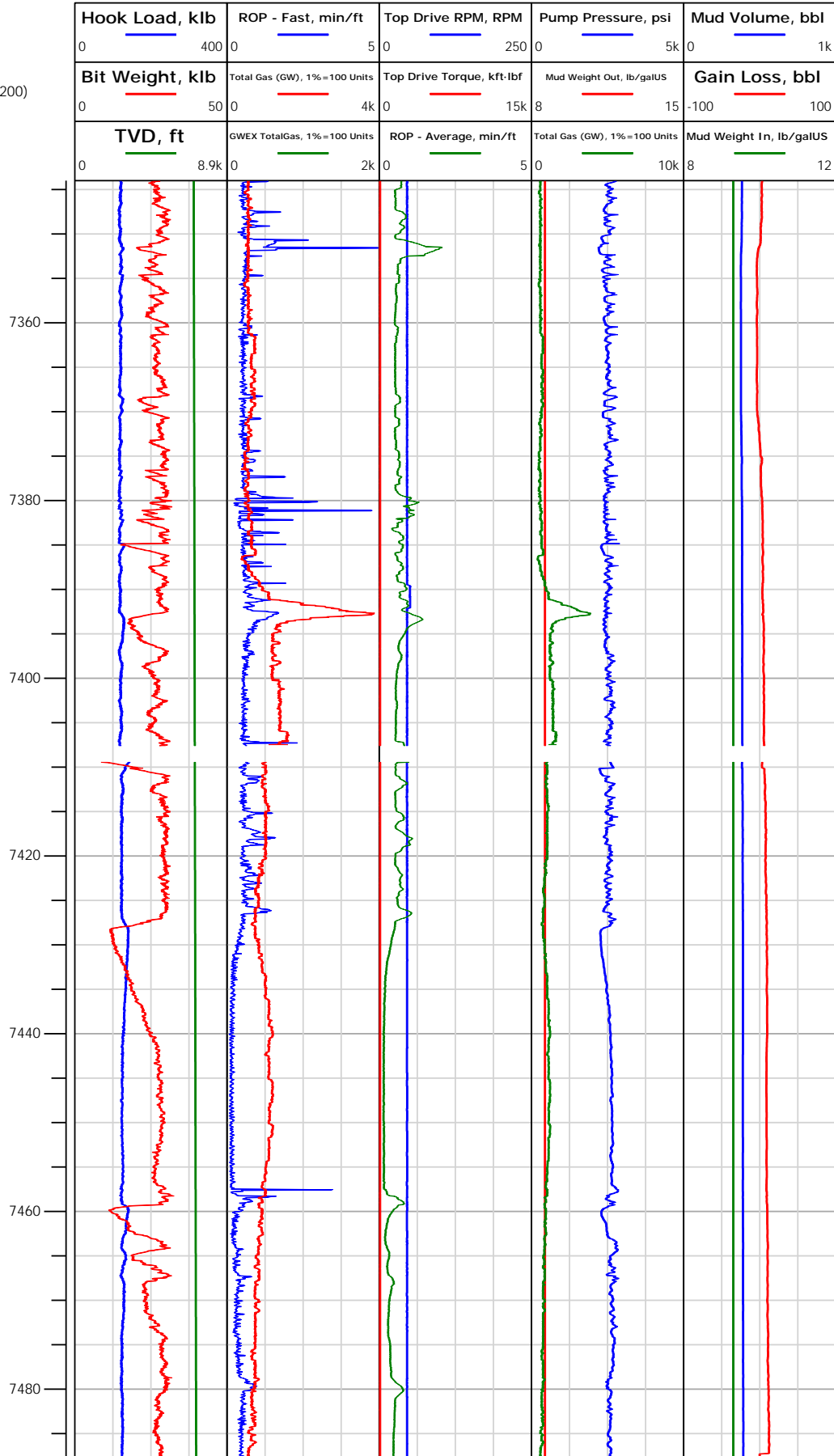
03:51

04:10

04:18

04:22

04:28



7355.00: Deviation Survey
7355.00 ft, Deviation 1.71
deg, Direction 237.45 deg

7409.45: Connection @
7409.45 ft

7450.00: Deviation Survey
7450.00 ft, Deviation 1.54
deg, Direction 243.6 deg



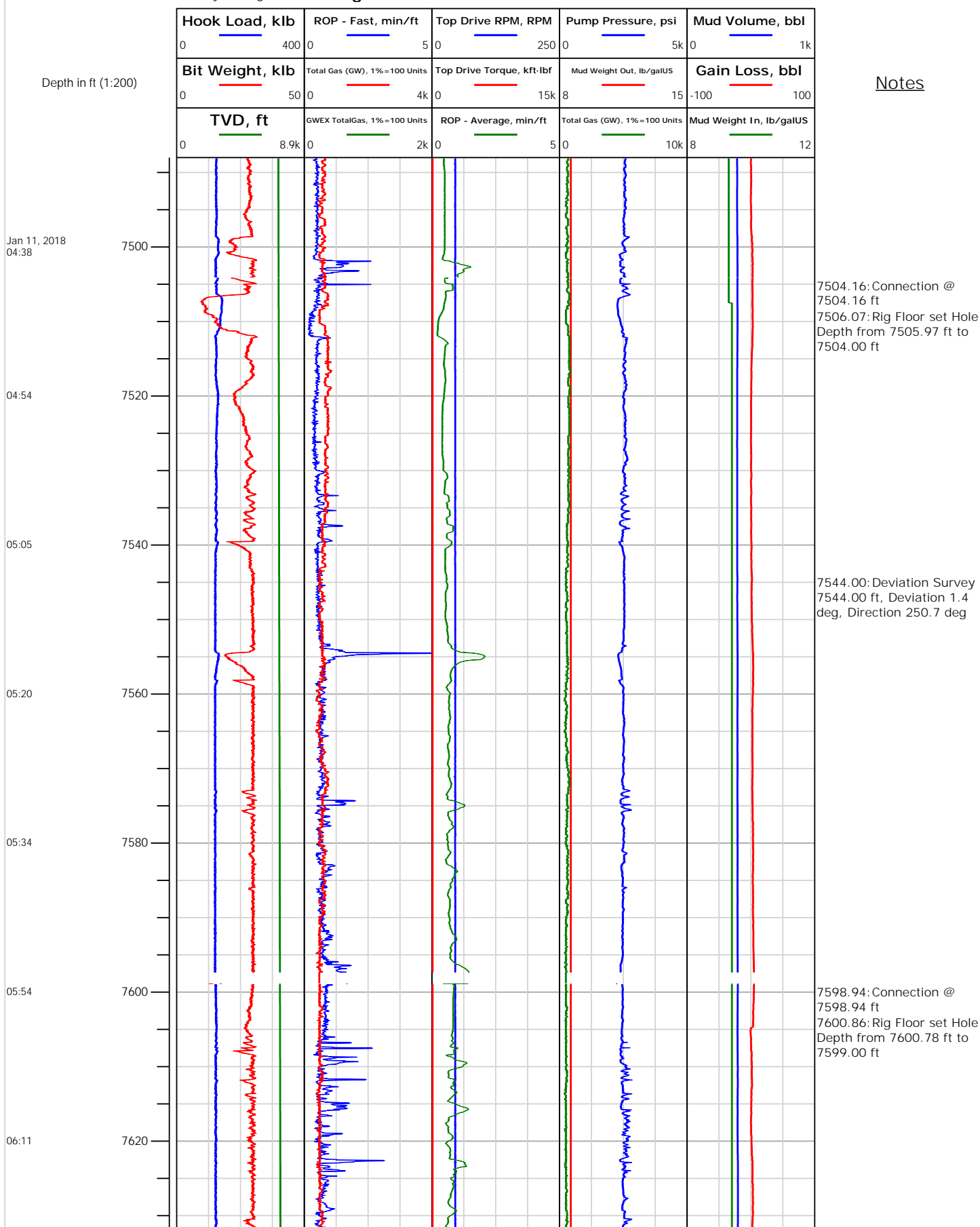
Electronic Drilling Recorder

Operator: Laramie Energy
Contractor: Helmerich & Payne Drlg Co

Well Name: Nichols 0994-24-02W
Rig: 290

Location: SW/4 Of NE/4

Notes





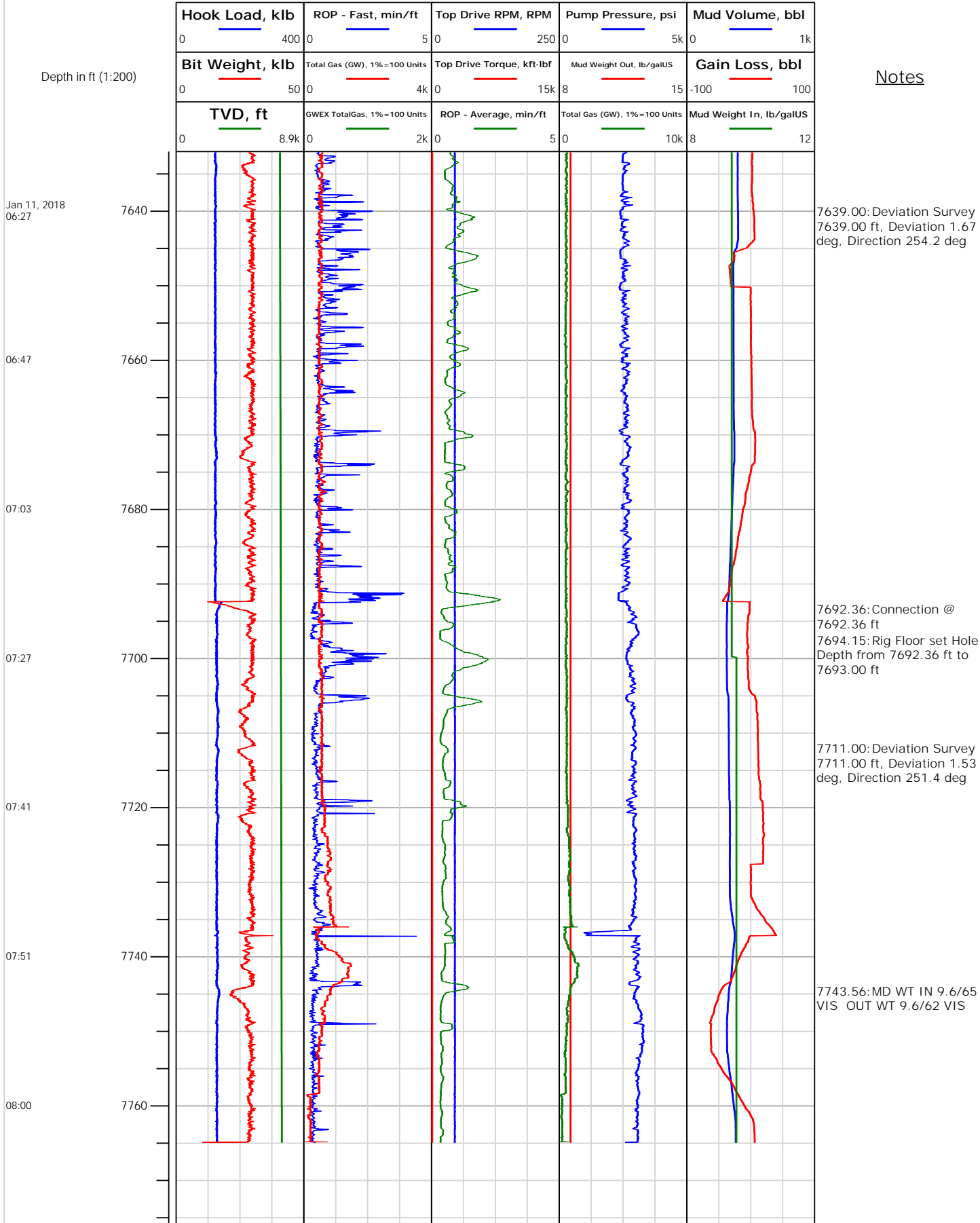
Electronic Drilling Recorder

Operator: Laramie Energy
Contractor: Helmerich & Payne Drlg Co

Well Name: Nichols 0994-24-02W
Rig: 290

Location: SW/4 Of NE/4

Notes





Electronic Drilling Recorder

Operator: Laramie Energy
Contractor: Helmerich & Payne Drlg Co

Well Name: Nichols 0994-24-02W
Rig: 290

Location: SW/4 Of NE/4

Notes

Depth in ft (1:200)

Hook Load, klb	ROP - Fast, min/ft	Top Drive RPM, RPM	Pump Pressure, psi	Mud Volume, bbl
0 400	0 5	0 250	0 5k	0 1k
Bit Weight, klb	Total Gas (GW), 1%=100 Units	Top Drive Torque, kft-lbf	Mud Weight Out, lb/galUS	Gain Loss, bbl
0 50	0 4k	0 15k	8 15	-100 100
TVD, ft	GWEX TotalGas, 1%=100 Units	ROP - Average, min/ft	Total Gas (GW), 1%=100 Units	Mud Weight In, lb/galUS
0 8.9k	0 2k	0 5	0 10k	8 12
7780				
7800				