

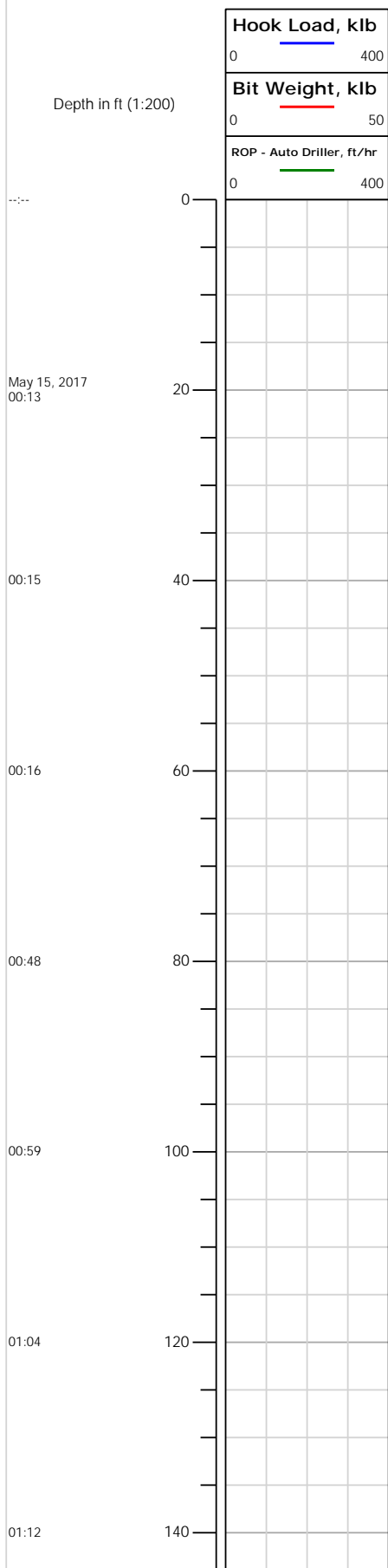


Operator: Laramie Energy
Contractor: Helmerich & Payne Drlg Co

Electronic Drilling Recorder

Well Name: Piceance Federal 29-18W
Rig: 522

Location:





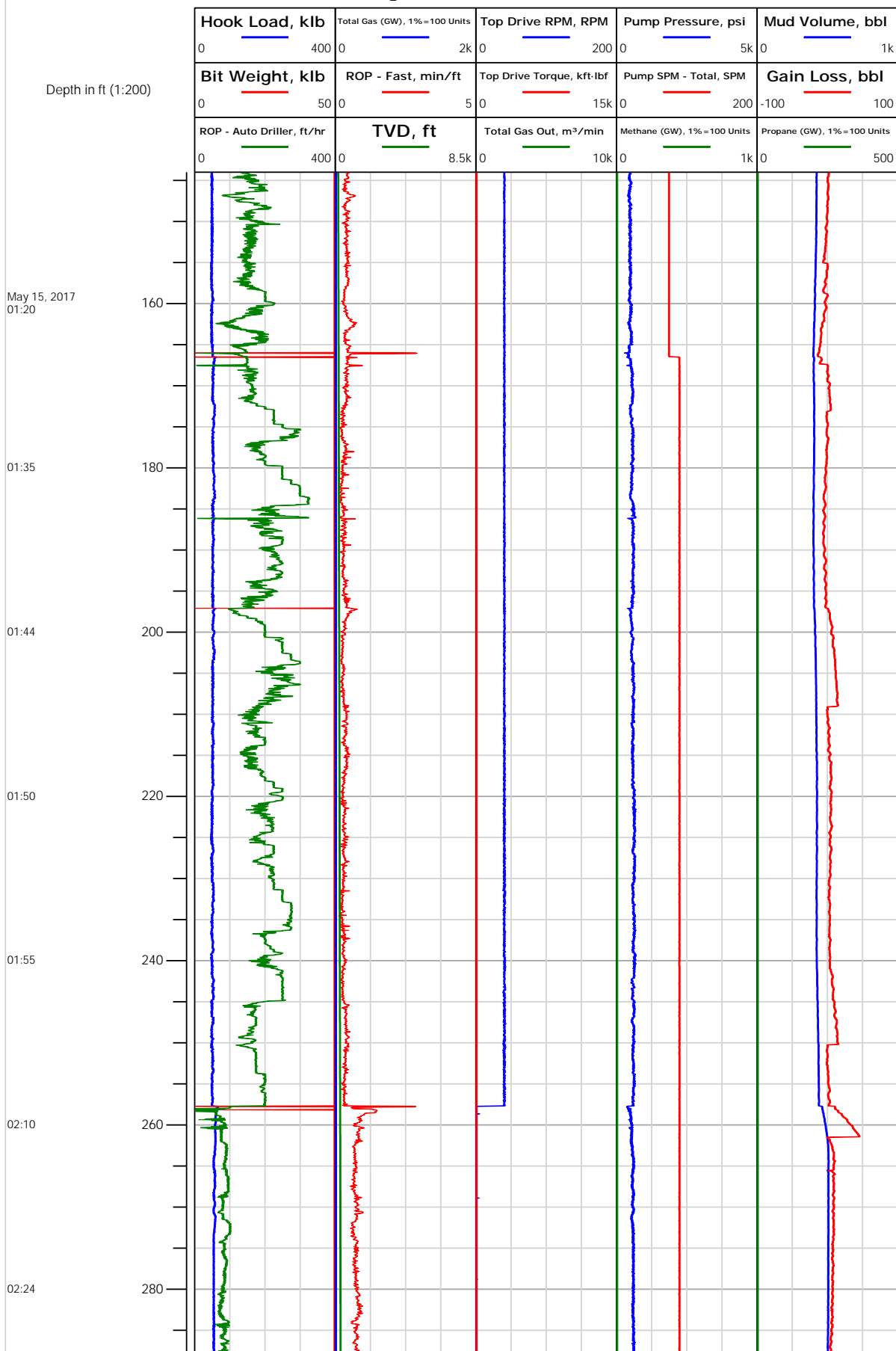
Electronic Drilling Recorder

Operator: Laramie Energy
Contractor: Helmerich & Payne Drlg Co

Well Name: Piceance Federal 29-18W
Rig: 522

Location:

Notes





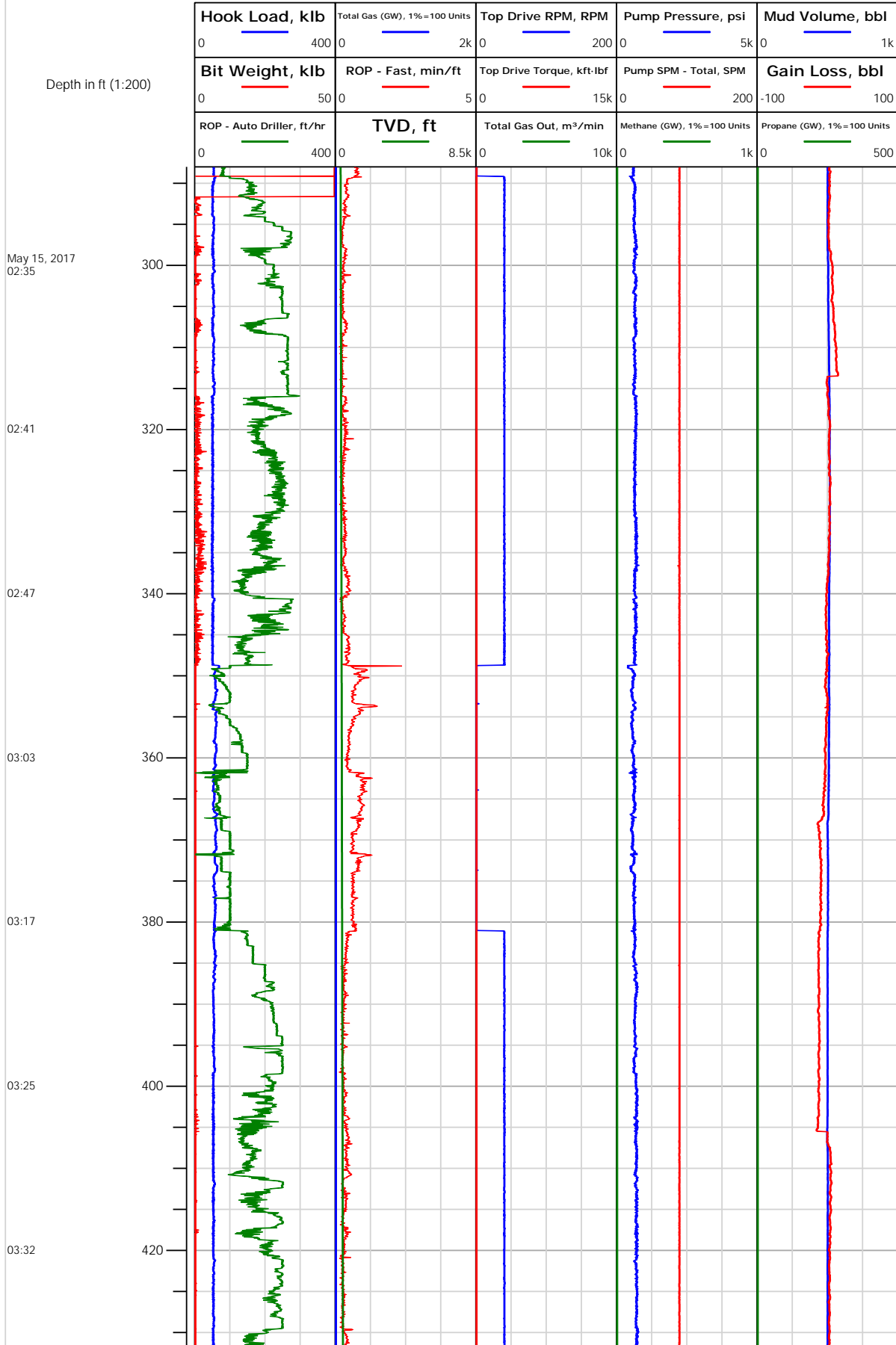
Electronic Drilling Recorder

Operator: Laramie Energy
Contractor: Helmerich & Payne Drlg Co

Well Name: Piceance Federal 29-18W
Rig: 522

Location:

Notes





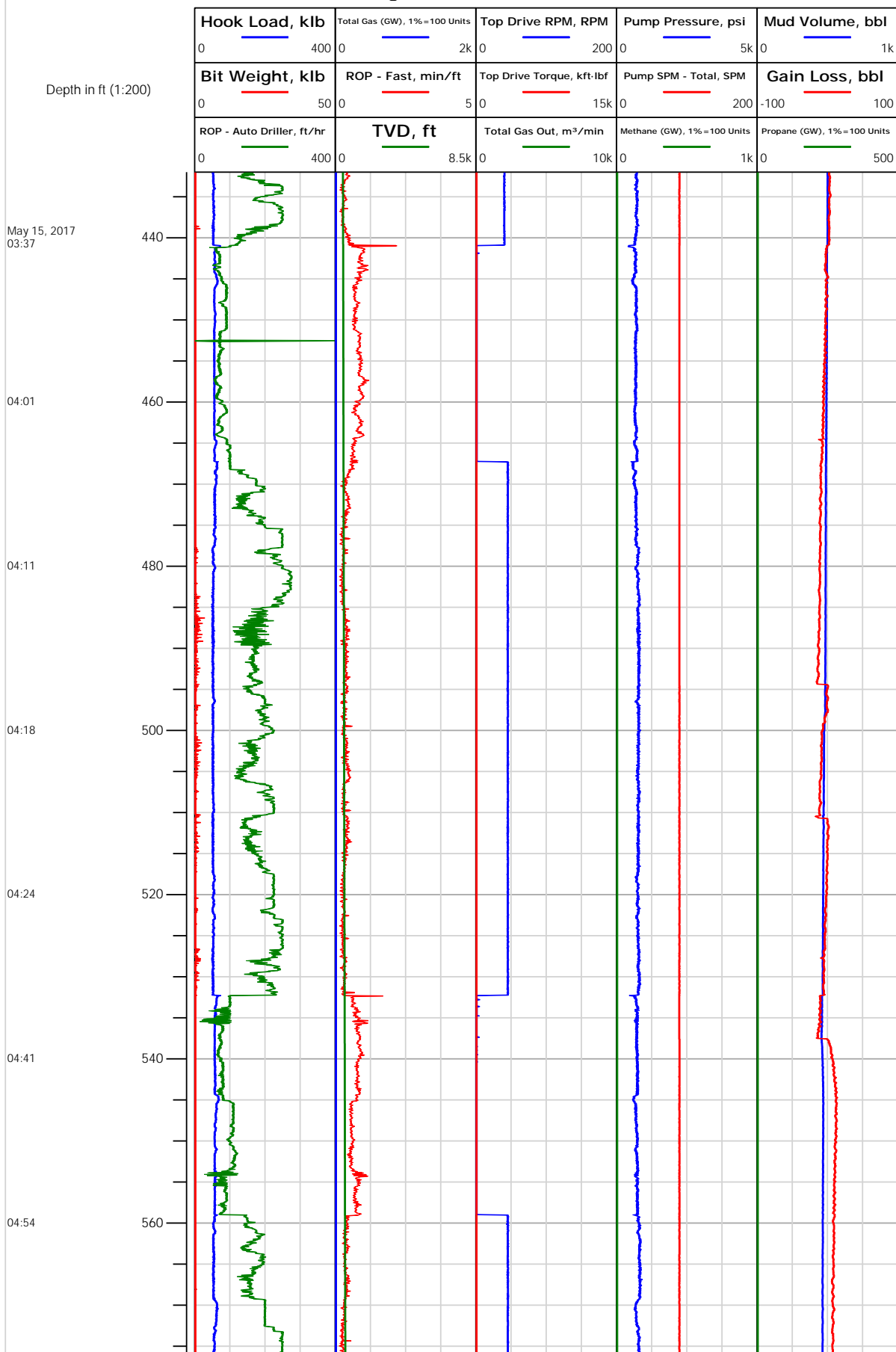
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Contractor: Helmerich & Payne Drlg Co

Well Name: Piceance Federal 29-18W
Rig: 522

Location:

Notes





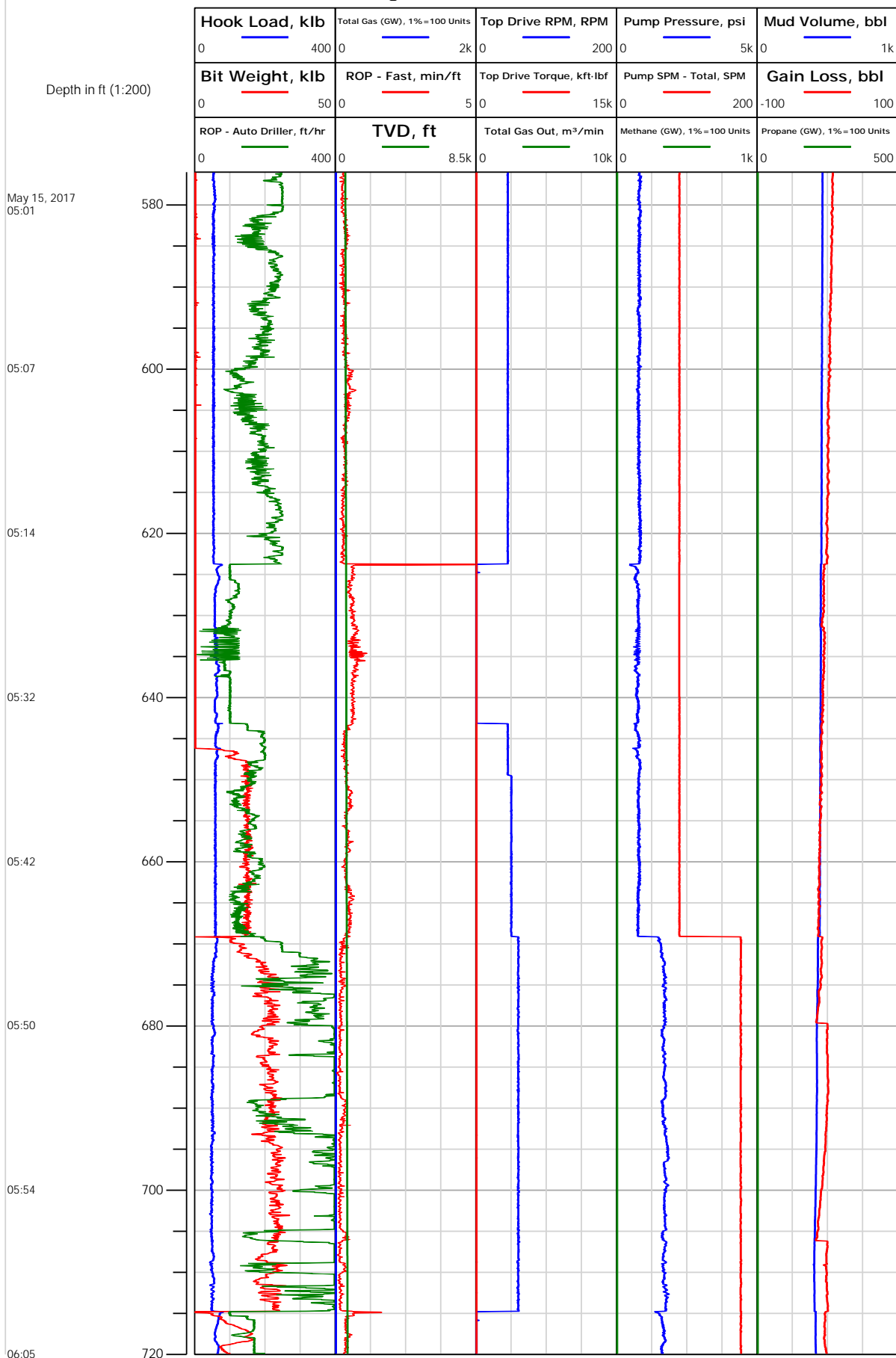
Electronic Drilling Recorder

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Contractor: Helmerich & Payne Drlg Co

Well Name: Piceance Federal 29-18W
Rig: 522

Location:

Notes





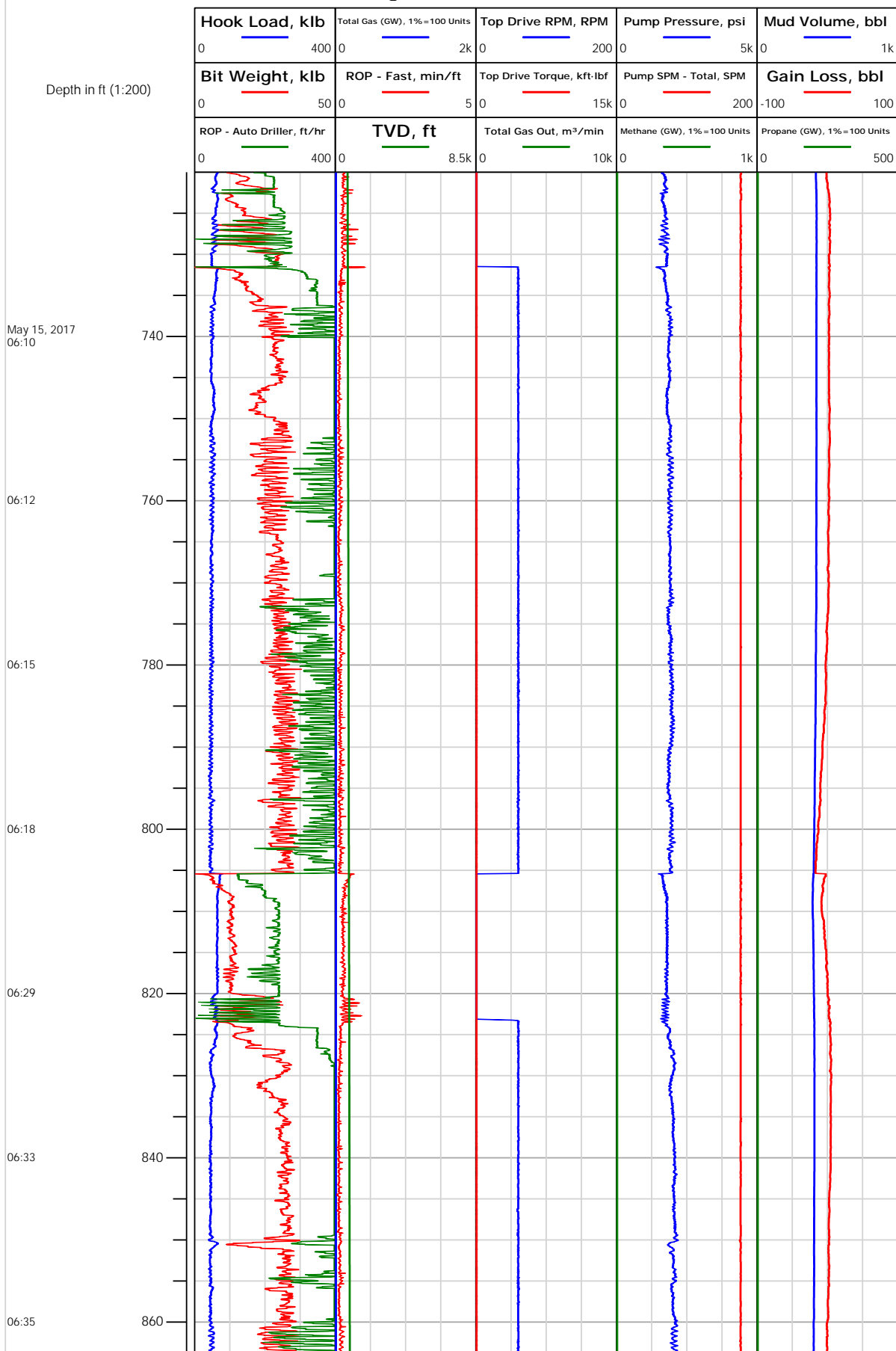
Electronic Drilling Recorder

Operator: Laramie Energy
Contractor: Helmerich & Payne Drlg Co

Well Name: Piceance Federal 29-18W
Rig: 522

Location:

Notes





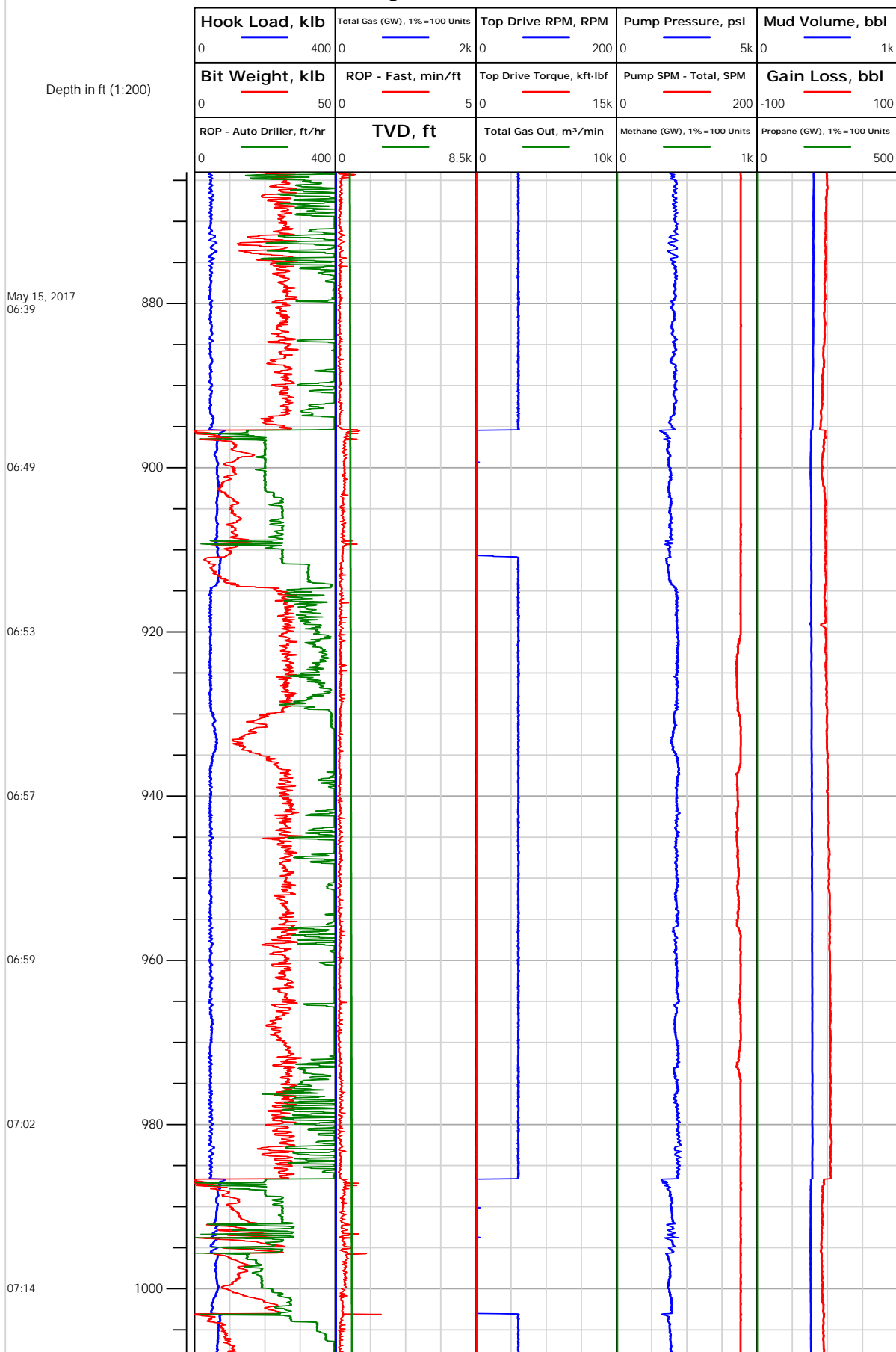
Electronic Drilling Recorder

Operator: Laramie Energy
Contractor: Helmerich & Payne Drlg Co

Well Name: Piceance Federal 29-18W
Rig: 522

Location:

Notes





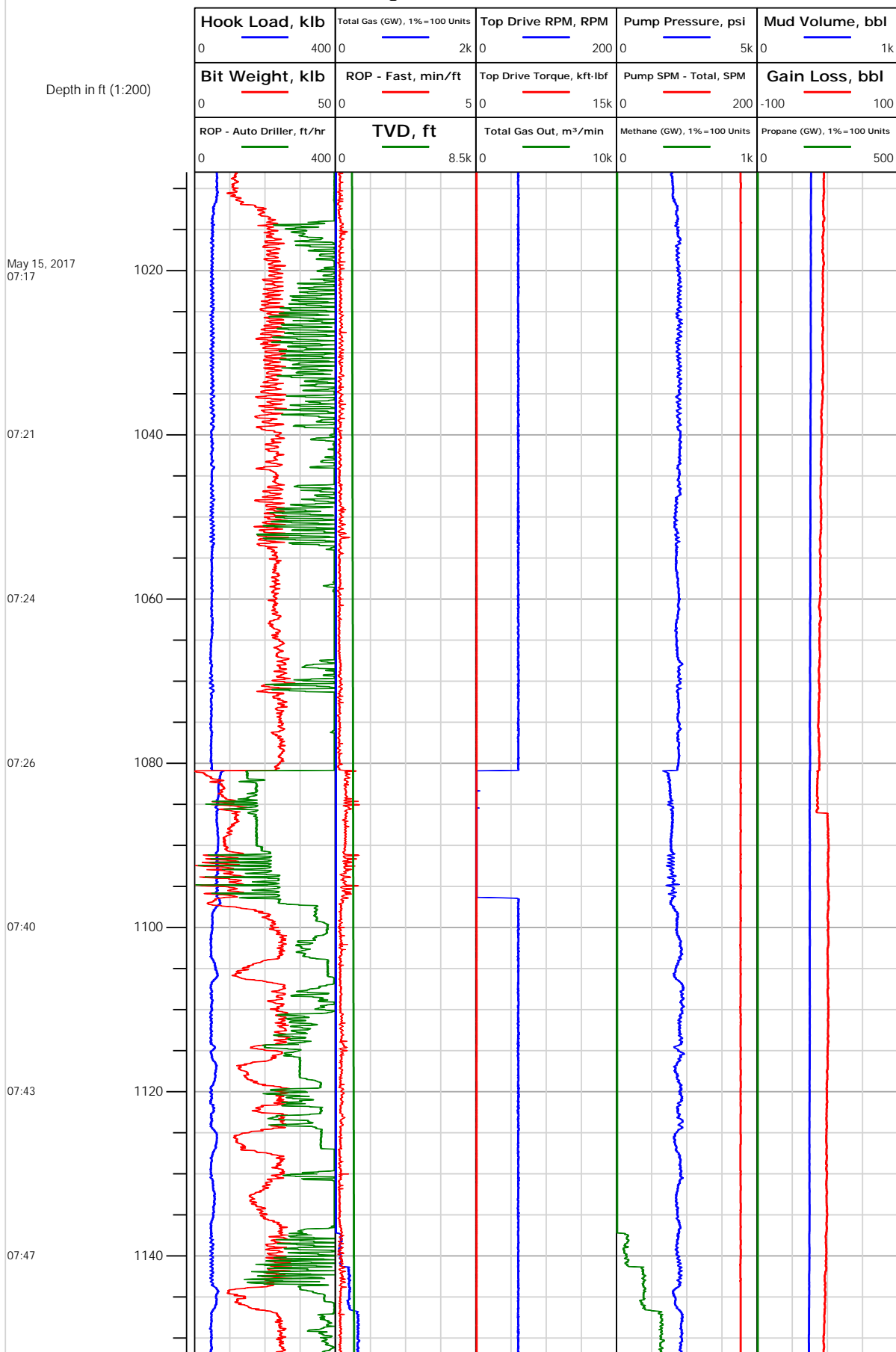
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Operator: Laramie Energy
Contractor: Helmerich & Payne Drlg Co

Well Name: Piceance Federal 29-18W
Rig: 522

Location:

Notes





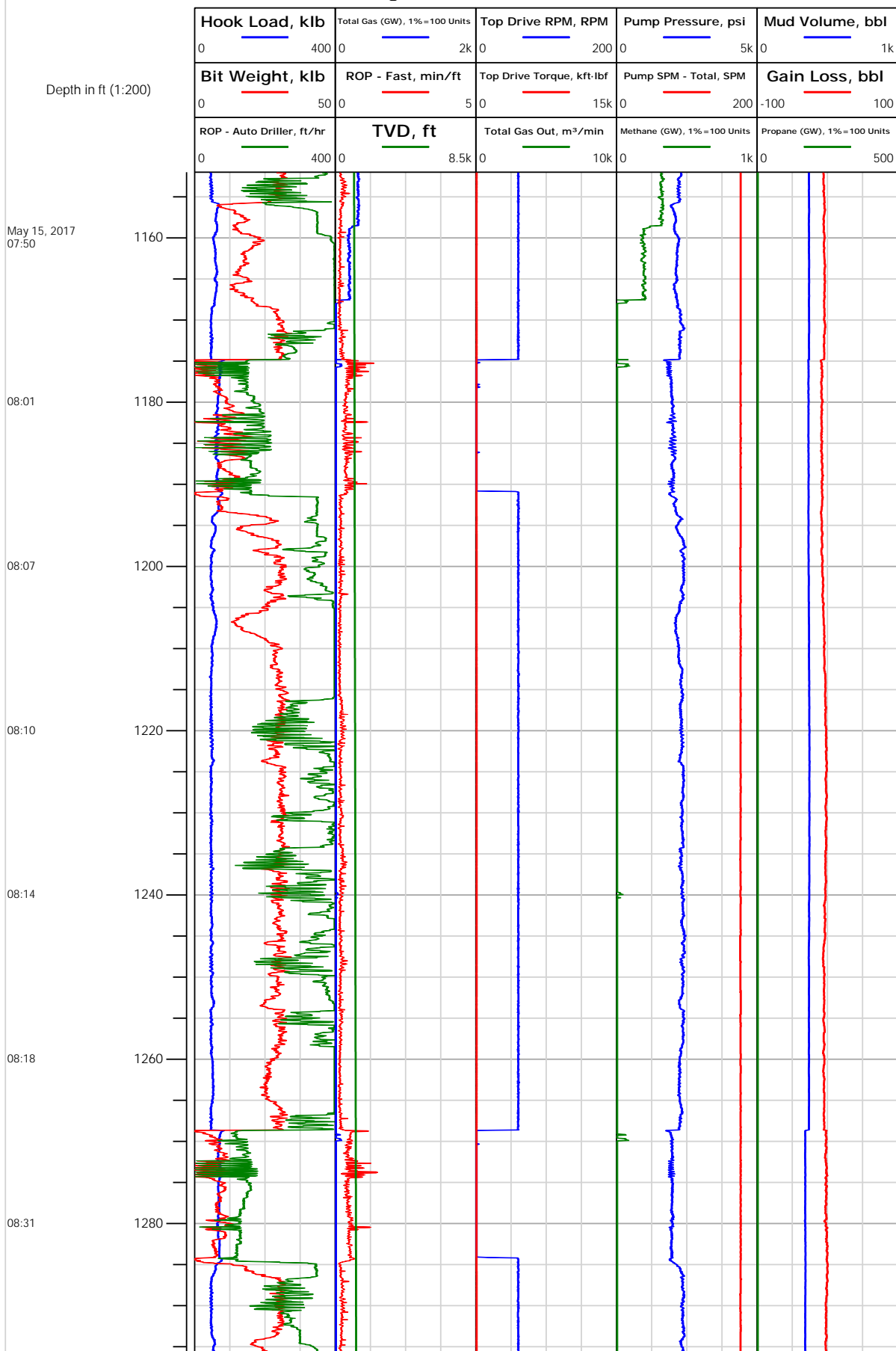
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Operator: Laramie Energy
Contractor: Helmerich & Payne Drlg Co

Well Name: Piceance Federal 29-18W
Rig: 522

Location:

Notes





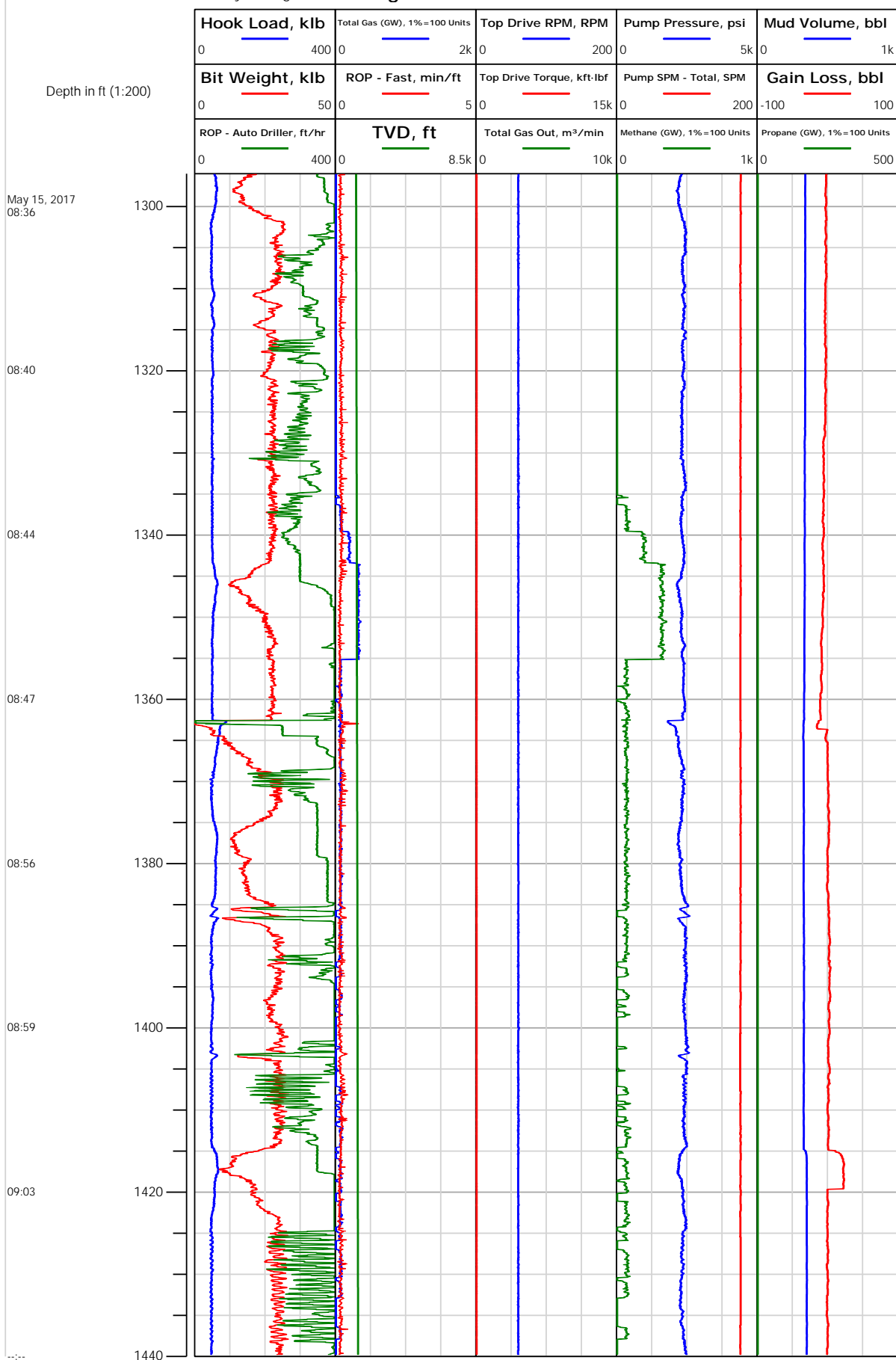
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Contractor: Helmerich & Payne Drlg Co

Well Name: Piceance Federal 29-18W
Rig: 522

Location:

Notes





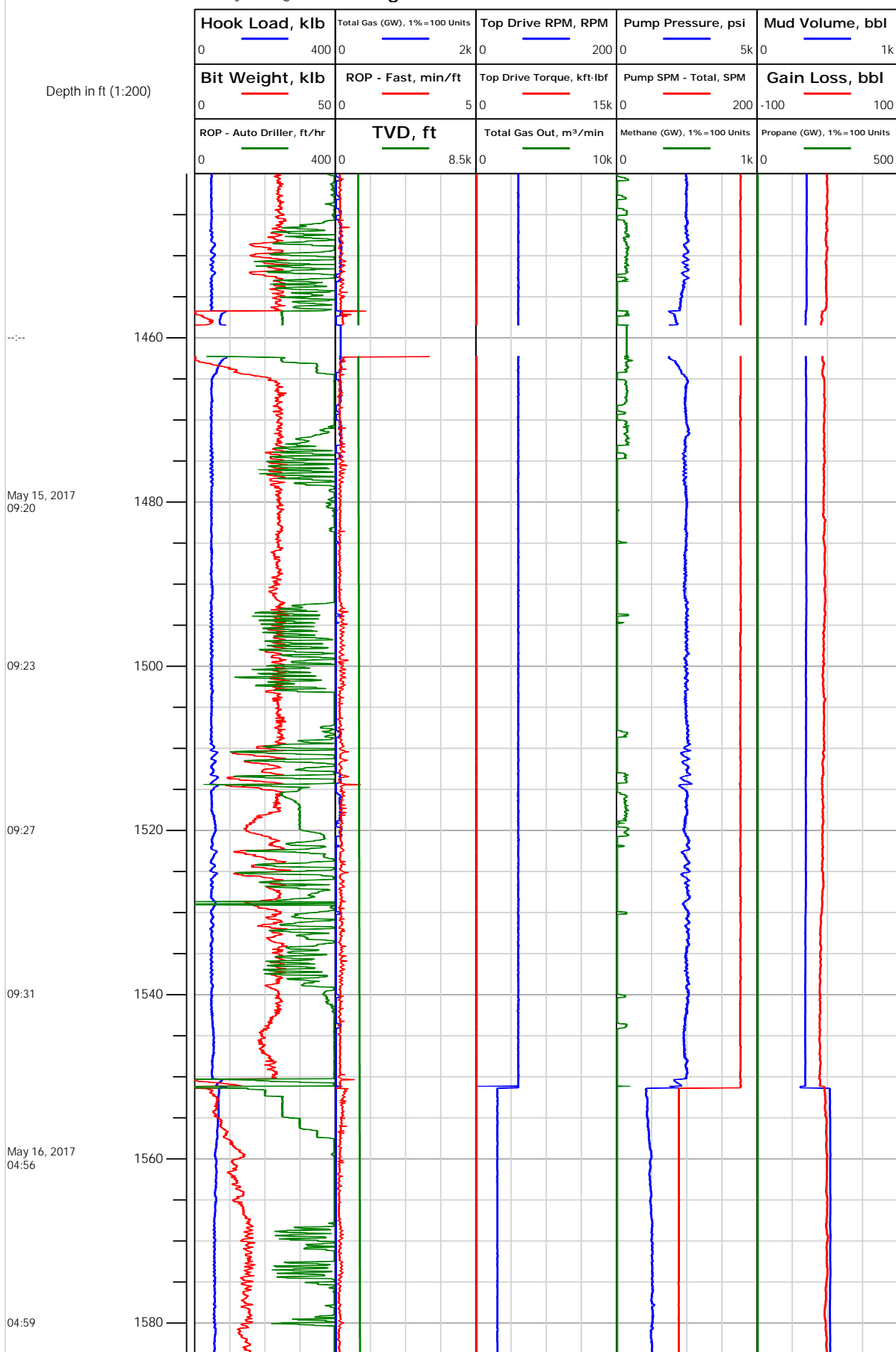
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Contractor: Helmerich & Payne Drlg Co

Well Name: Piceance Federal 29-18W
Rig: 522

Location:

Notes





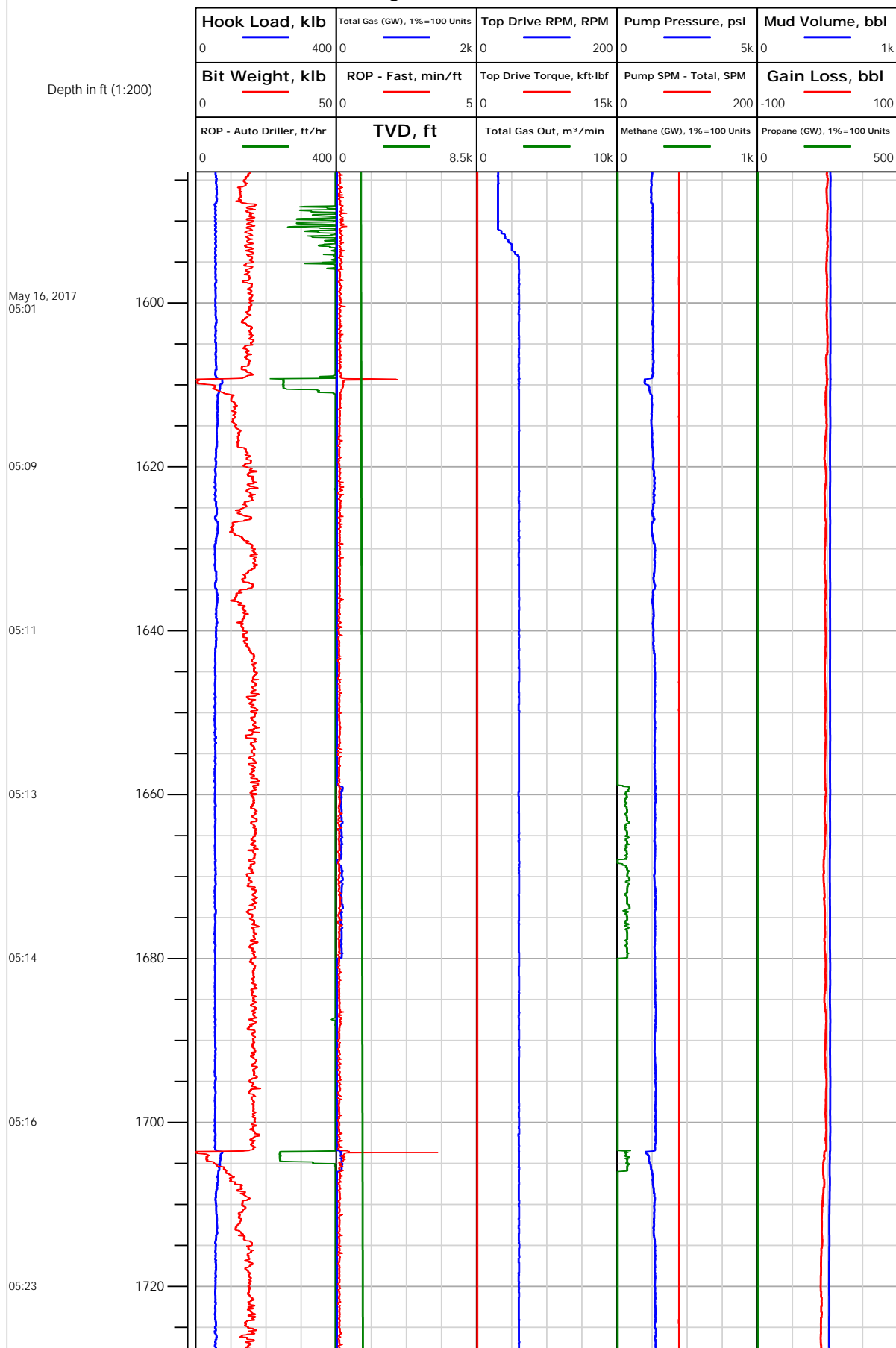
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Contractor: Helmerich & Payne Drlg Co

Well Name: Piceance Federal 29-18W
Rig: 522

Location:

Notes





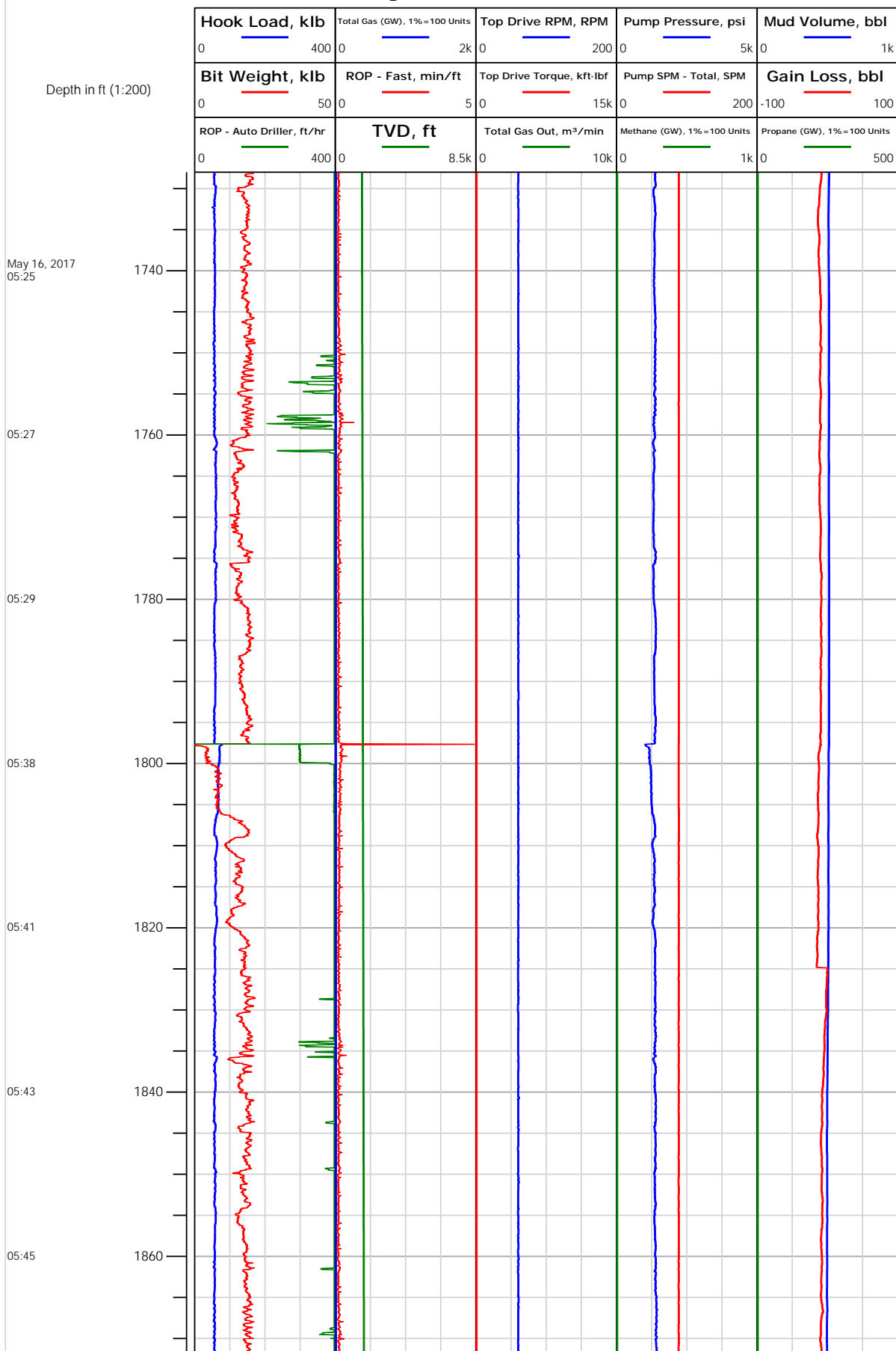
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Contractor: Helmerich & Payne Drlg Co

Well Name: Piceance Federal 29-18W
Rig: 522

Location:

Notes





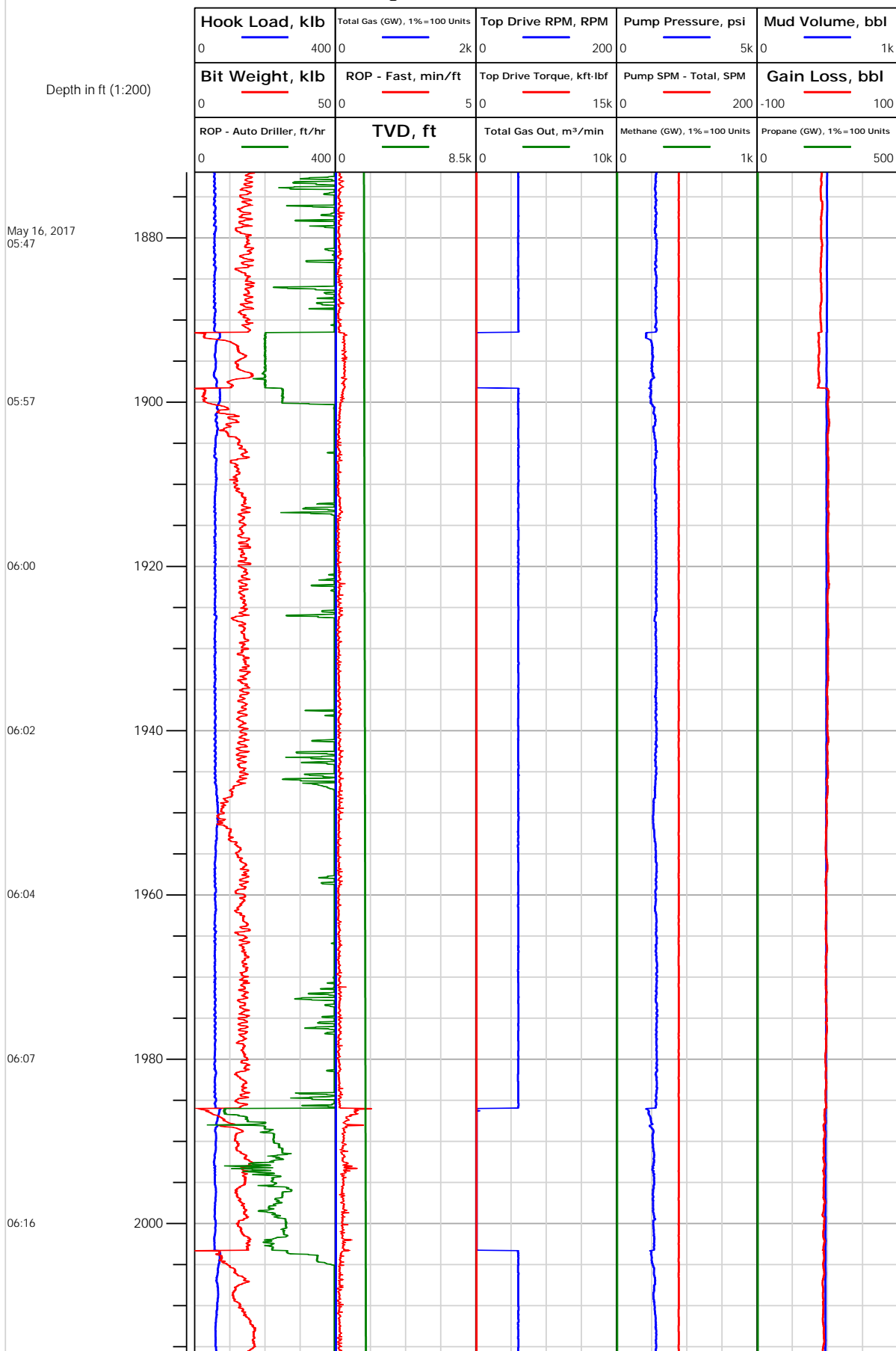
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Contractor: Helmerich & Payne Drlg Co

Well Name: Piceance Federal 29-18W
Rig: 522

Location:

Notes





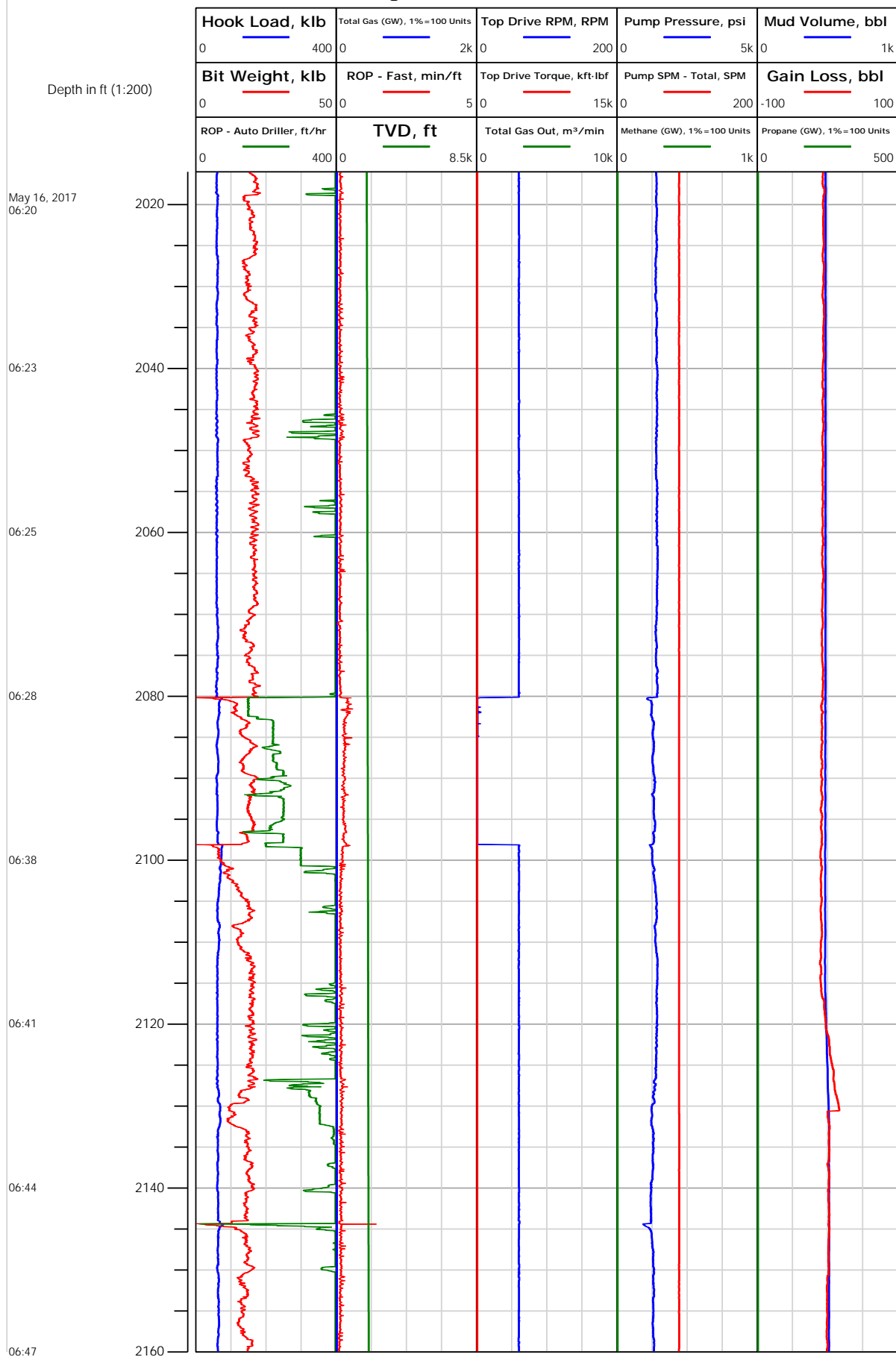
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Contractor: Helmerich & Payne Drlg Co

Well Name: Piceance Federal 29-18W
Rig: 522

Location:

Notes





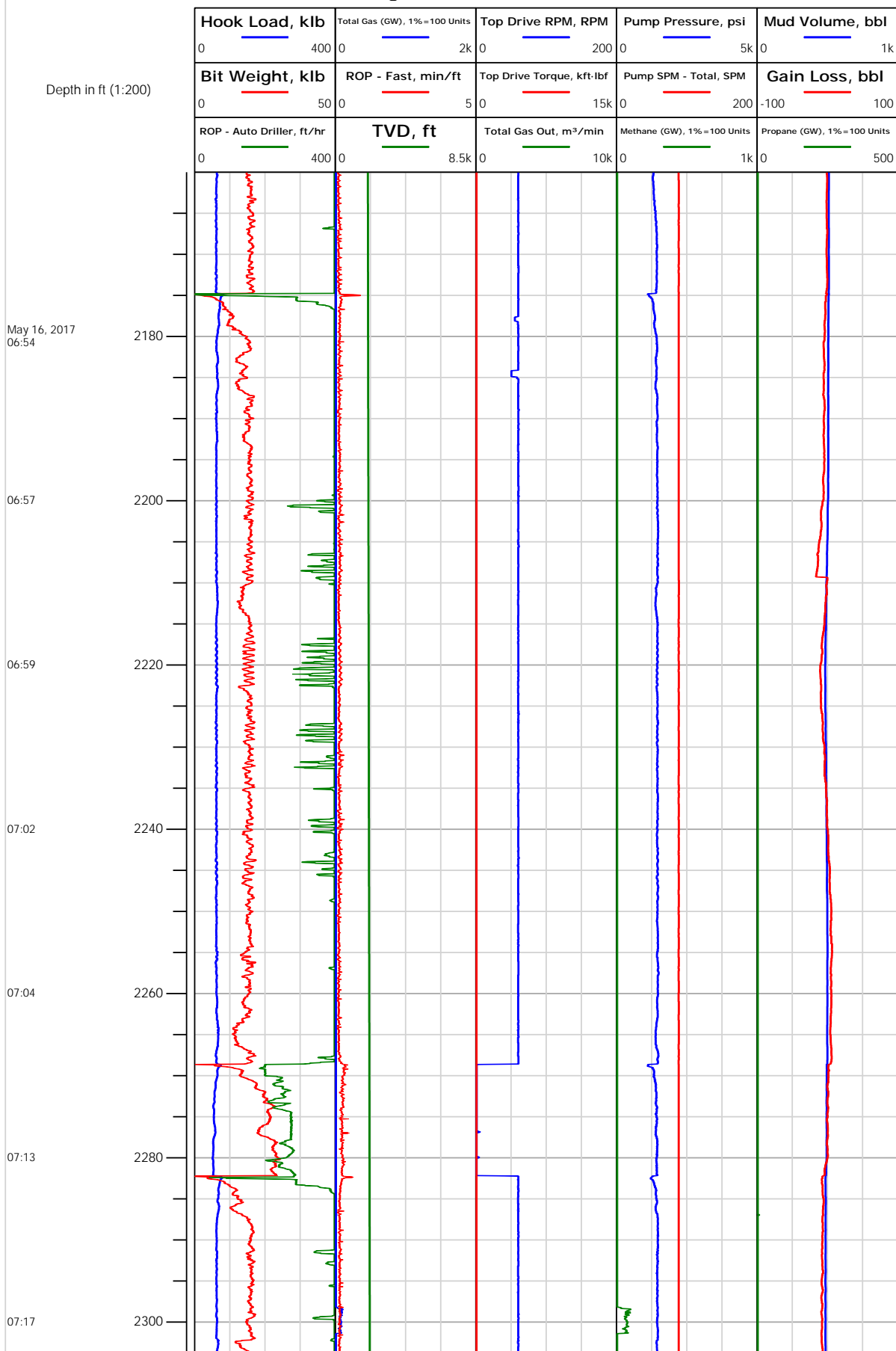
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Contractor: Helmerich & Payne Drlg Co

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Rig: 522

Location:

Notes





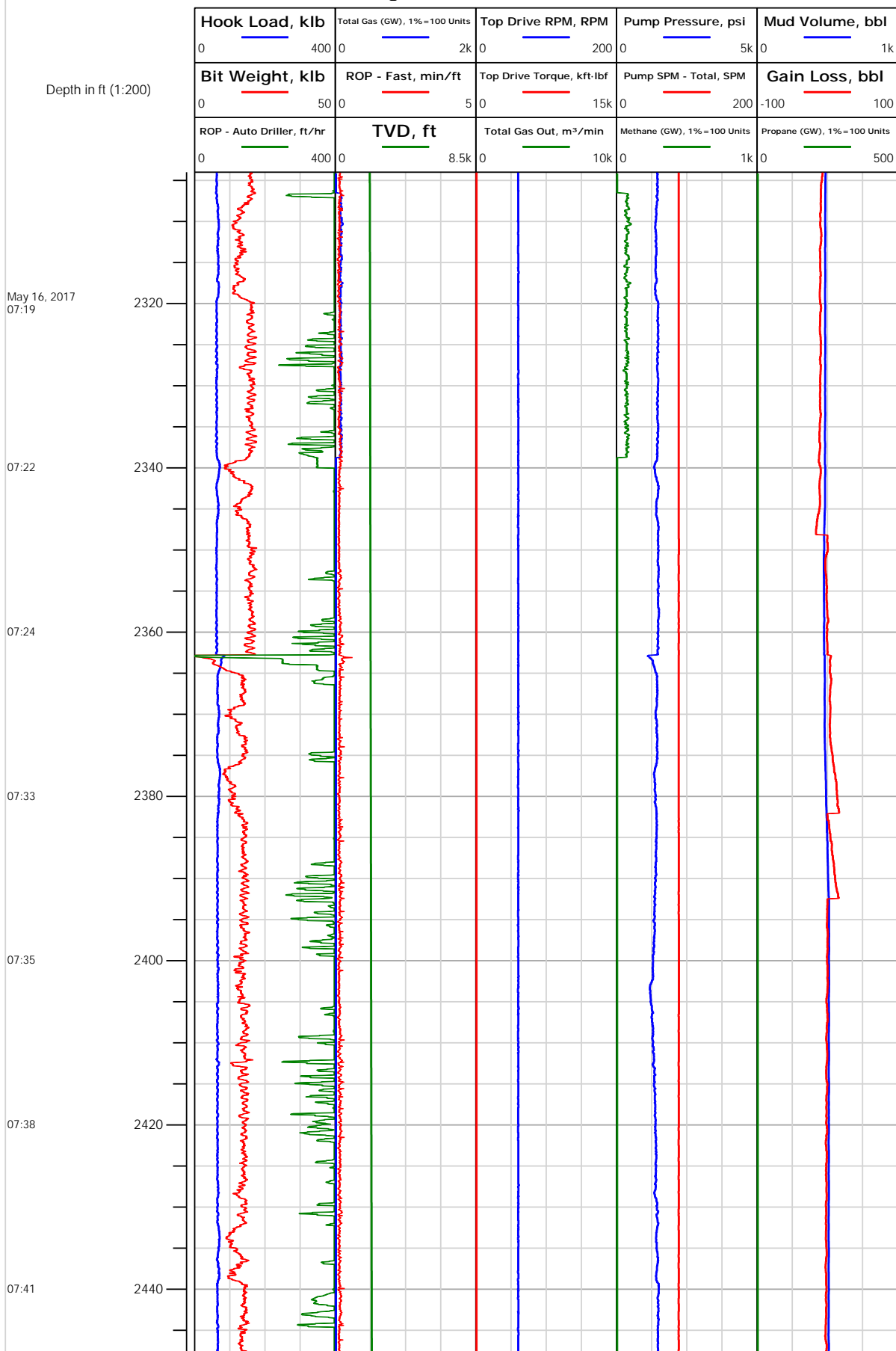
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Contractor: Helmerich & Payne Drlg Co

Well Name: Piceance Federal 29-18W
Rig: 522

Location:

Notes





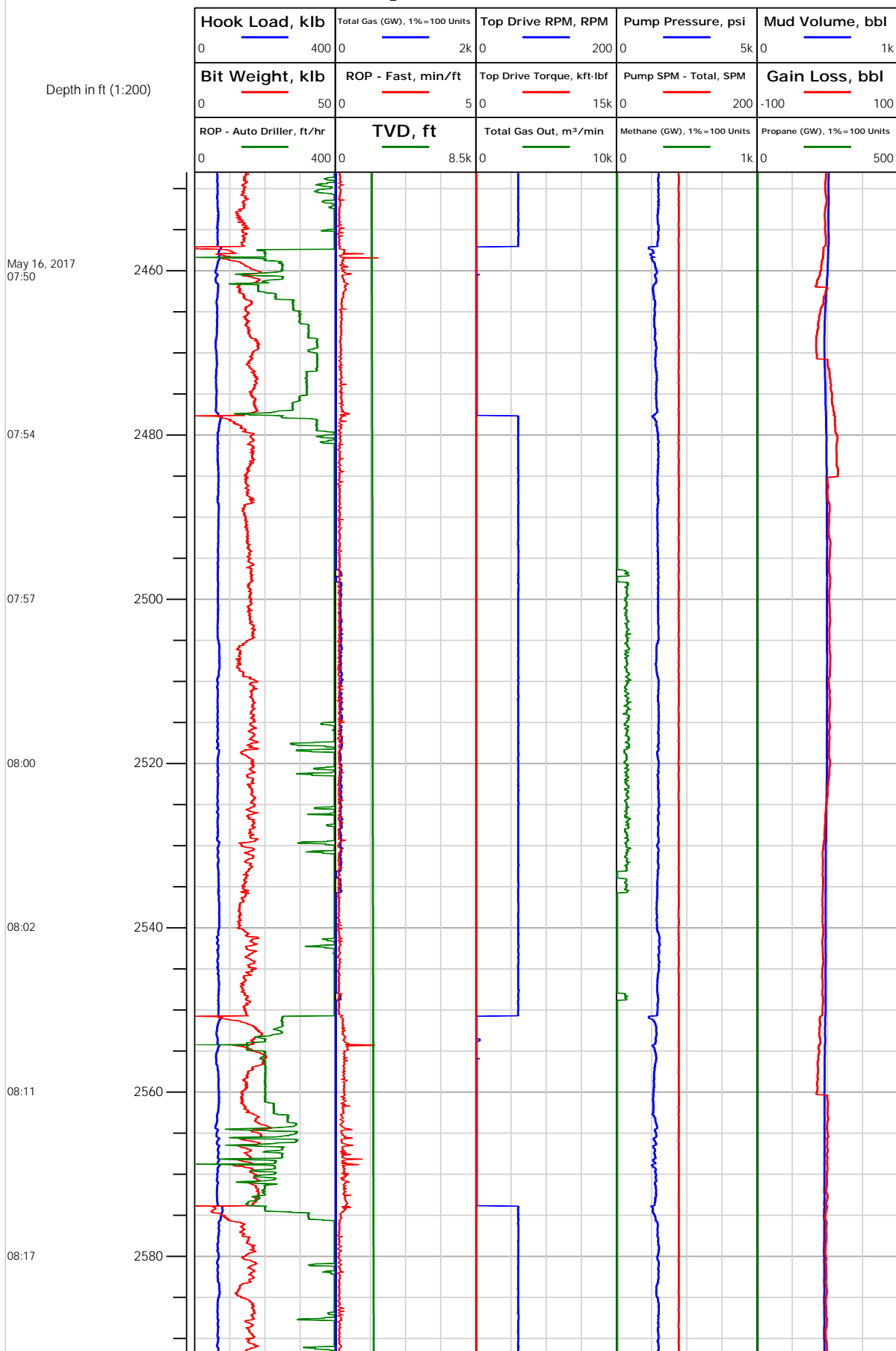
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Contractor: Helmerich & Payne Drlg Co

Well Name: Piceance Federal 29-18W
Rig: 522

Location:

Notes





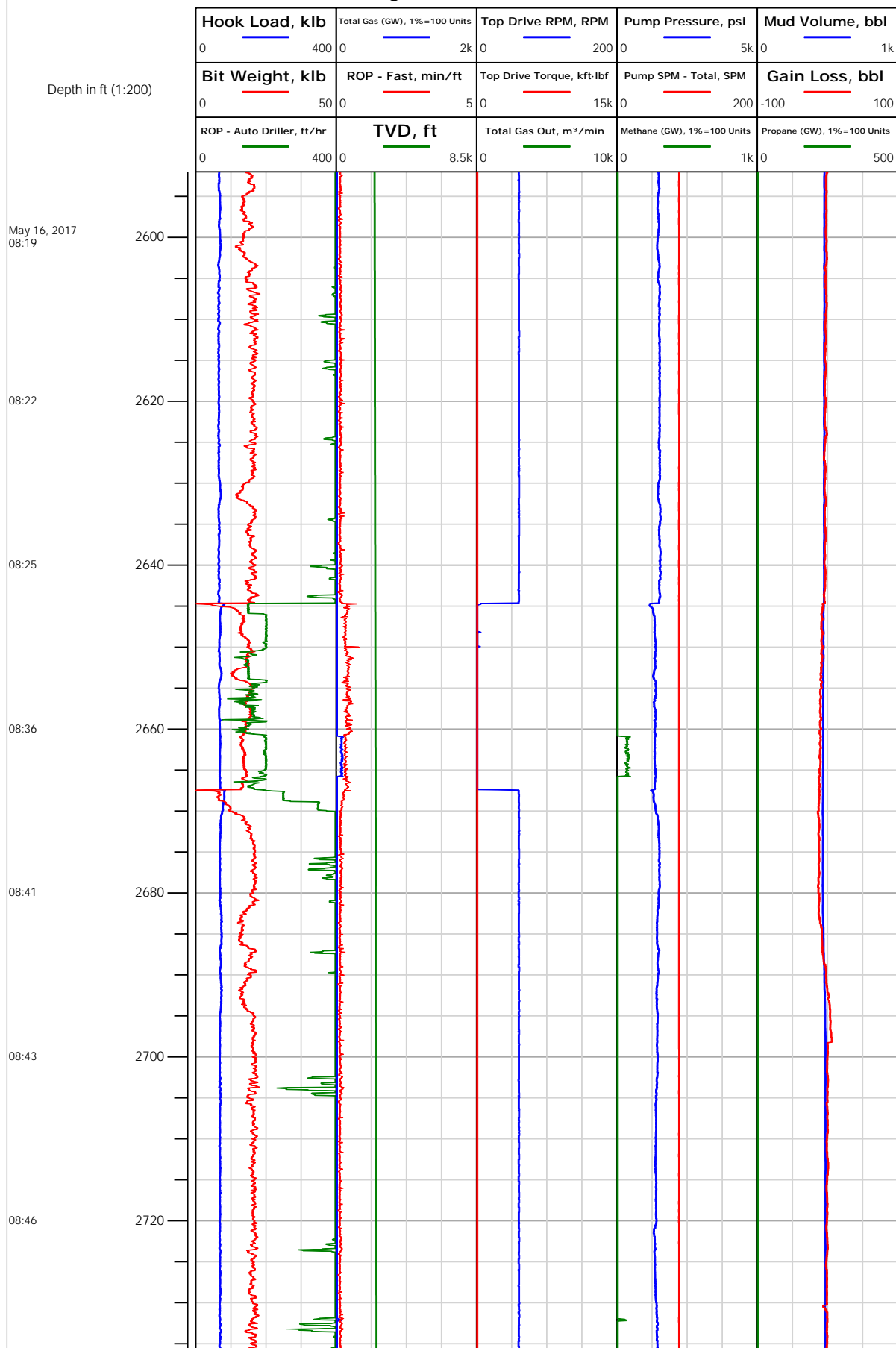
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Contractor: Helmerich & Payne Drlg Co

Well Name: Piceance Federal 29-18W
Rig: 522

Location:

Notes





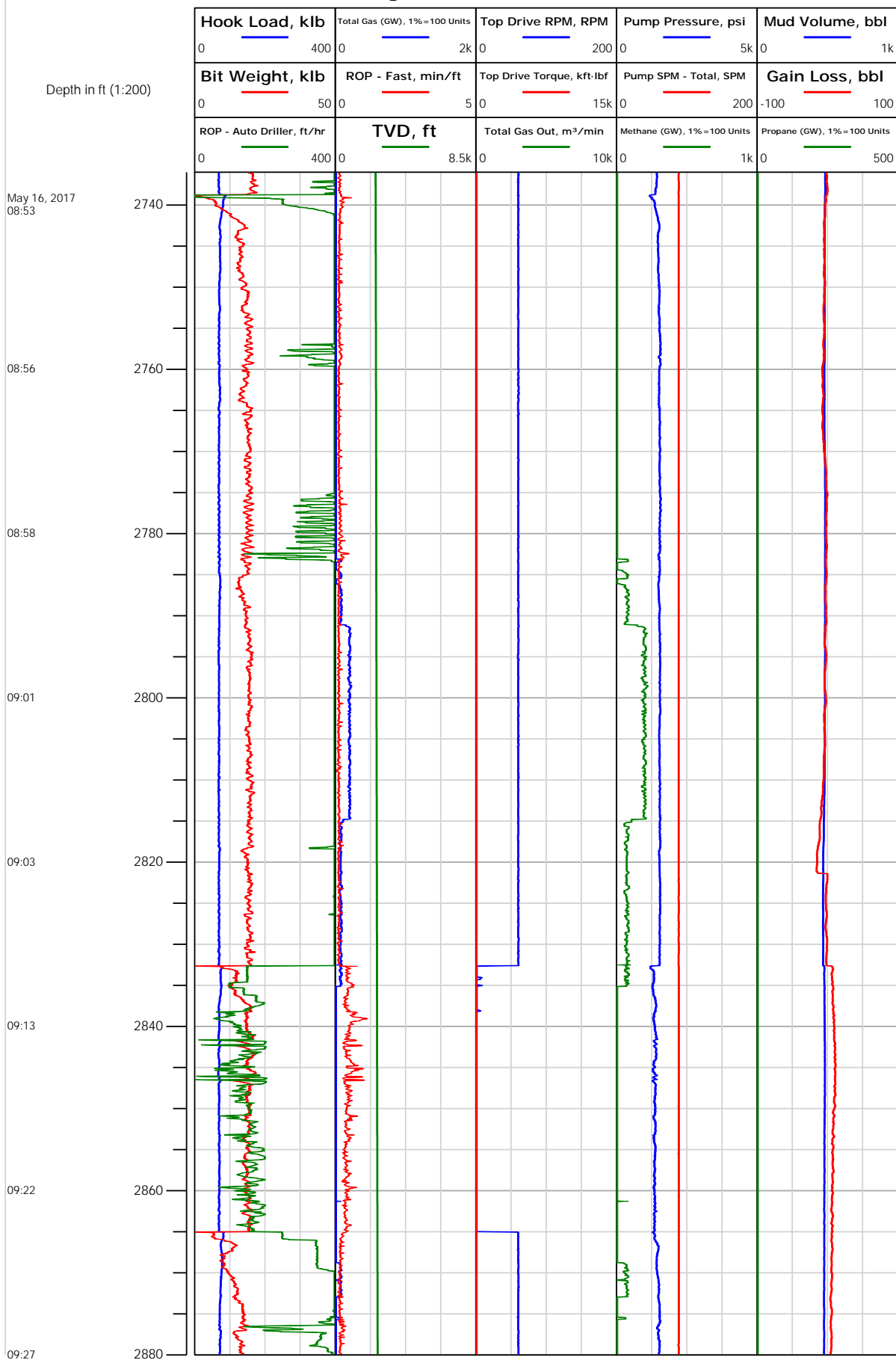
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Contractor: Helmerich & Payne Drlg Co

Well Name: Piceance Federal 29-18W
Rig: 522

Location:

Notes





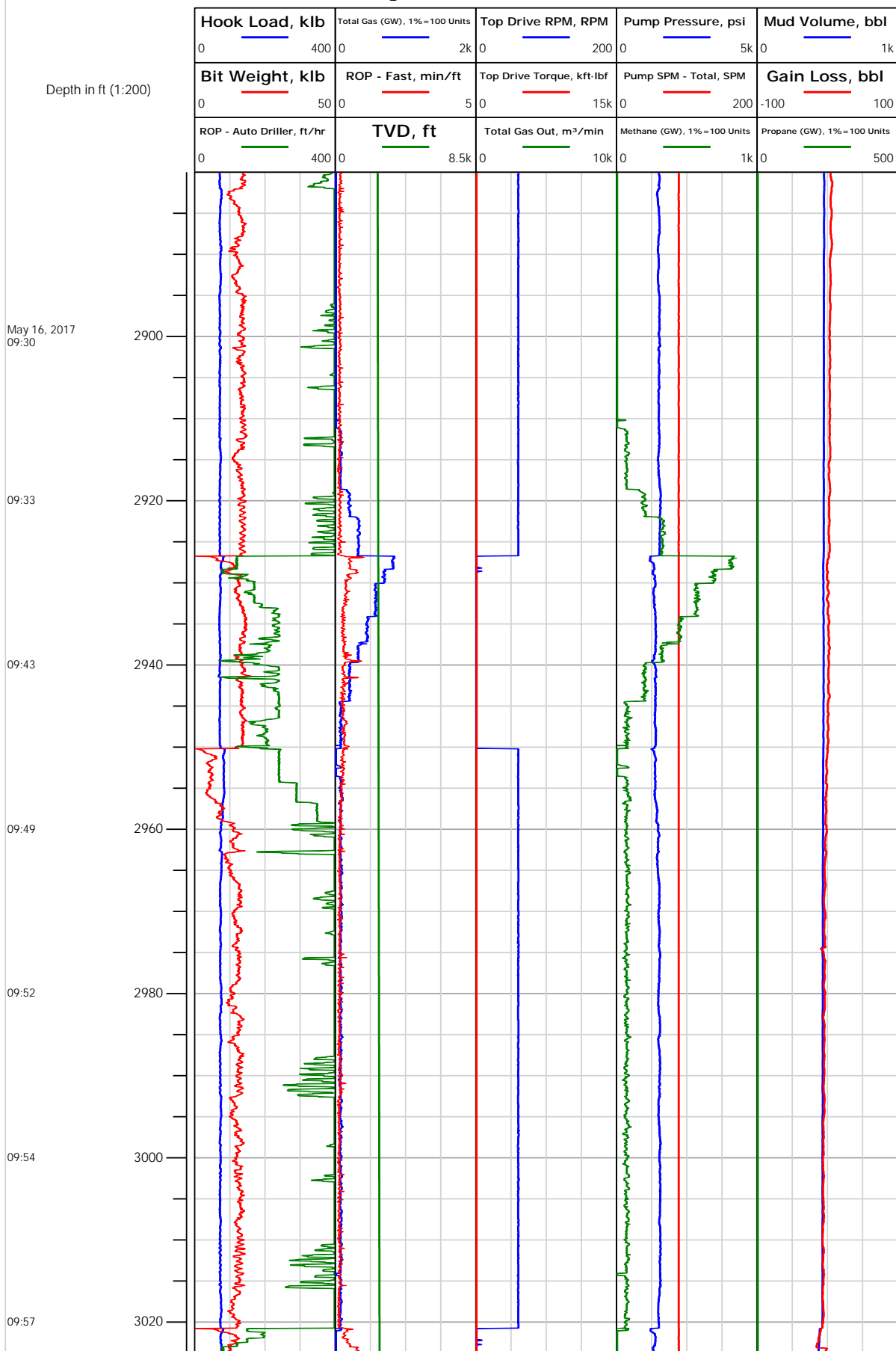
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Contractor: Helmerich & Payne Drlg Co

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Rig: 522

Location:

Notes





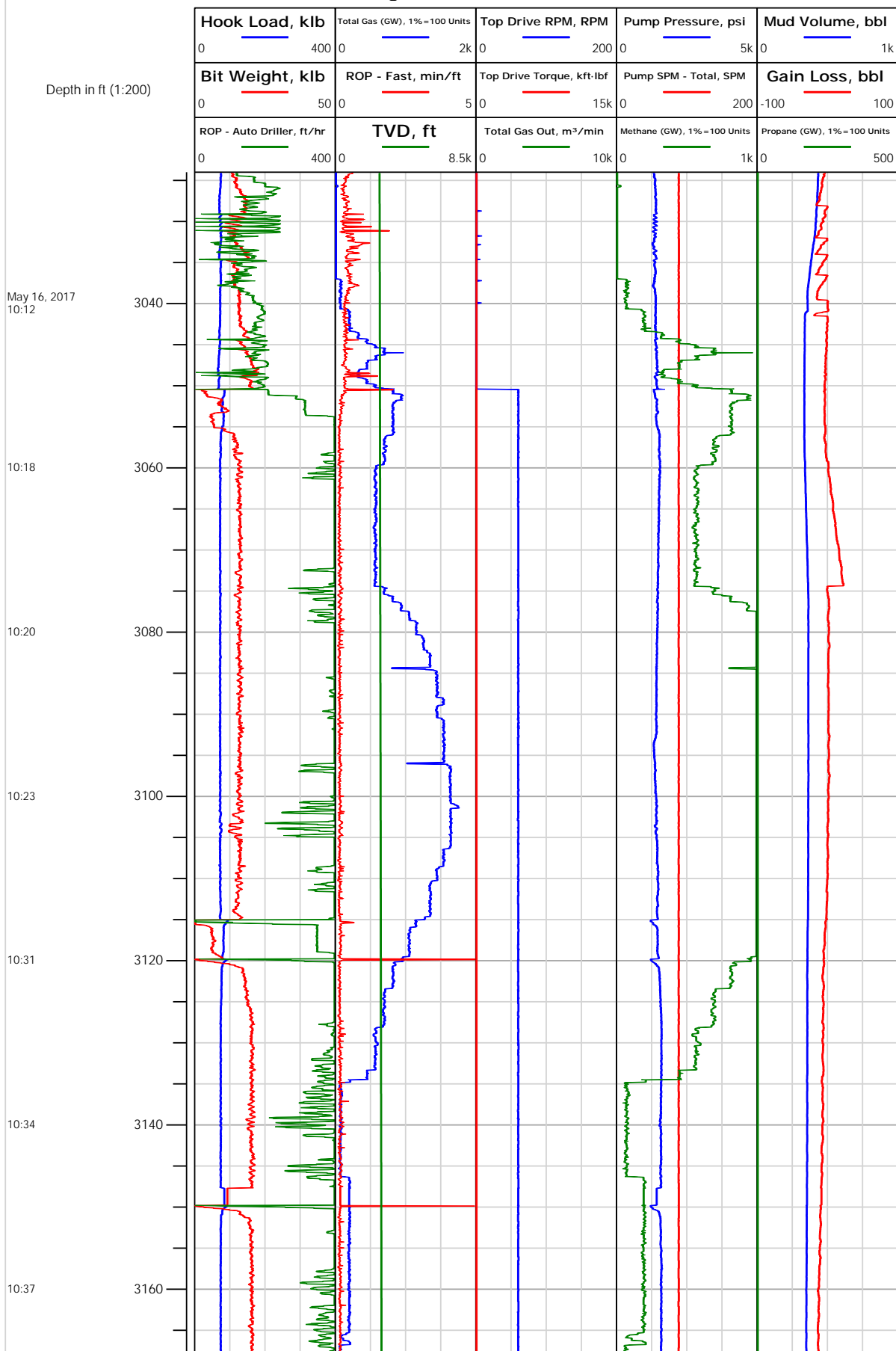
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Rig: 522

Location:

Notes





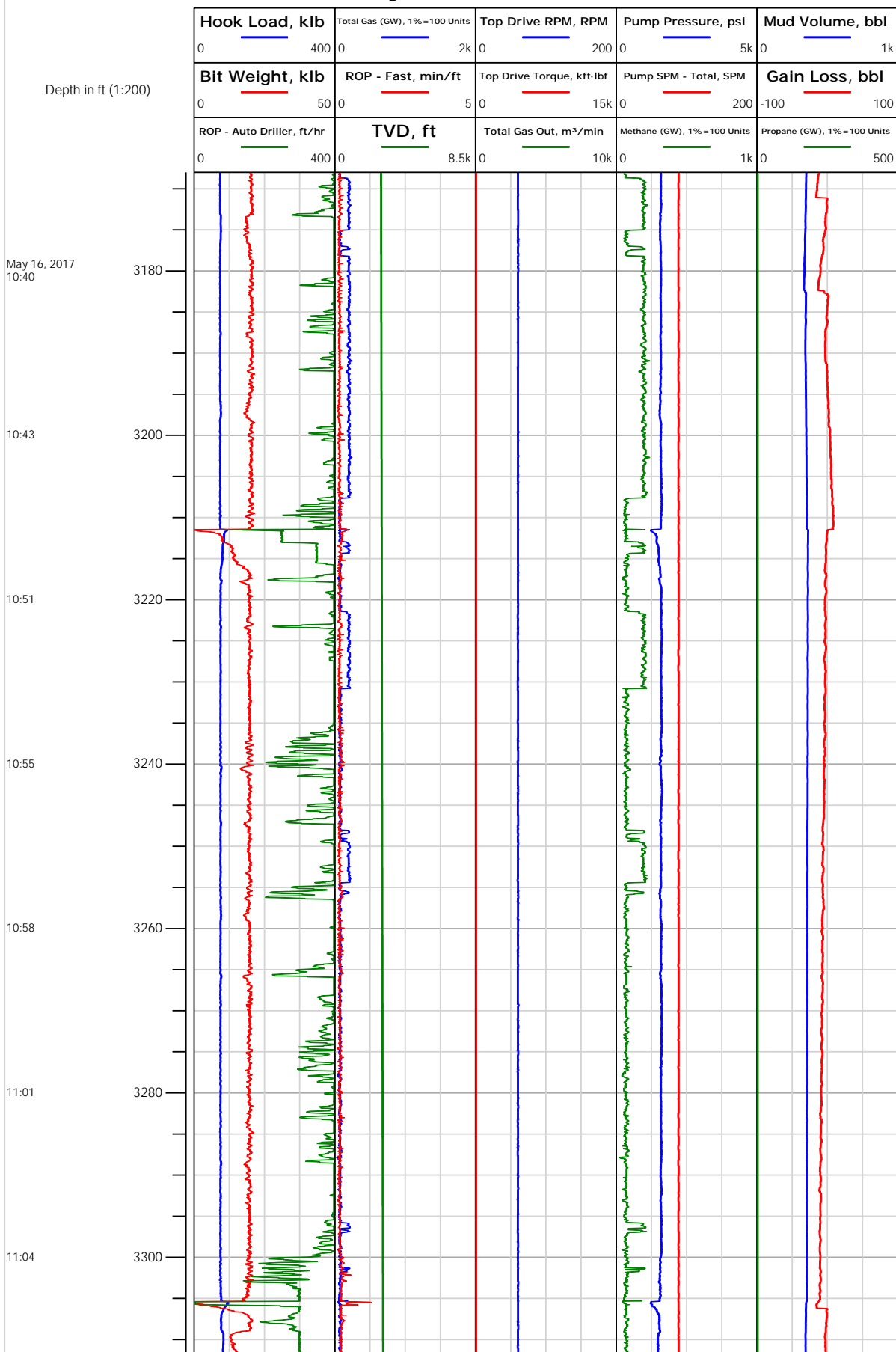
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Contractor: Helmerich & Payne Drlg Co

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Rig: 522

Location:

Notes





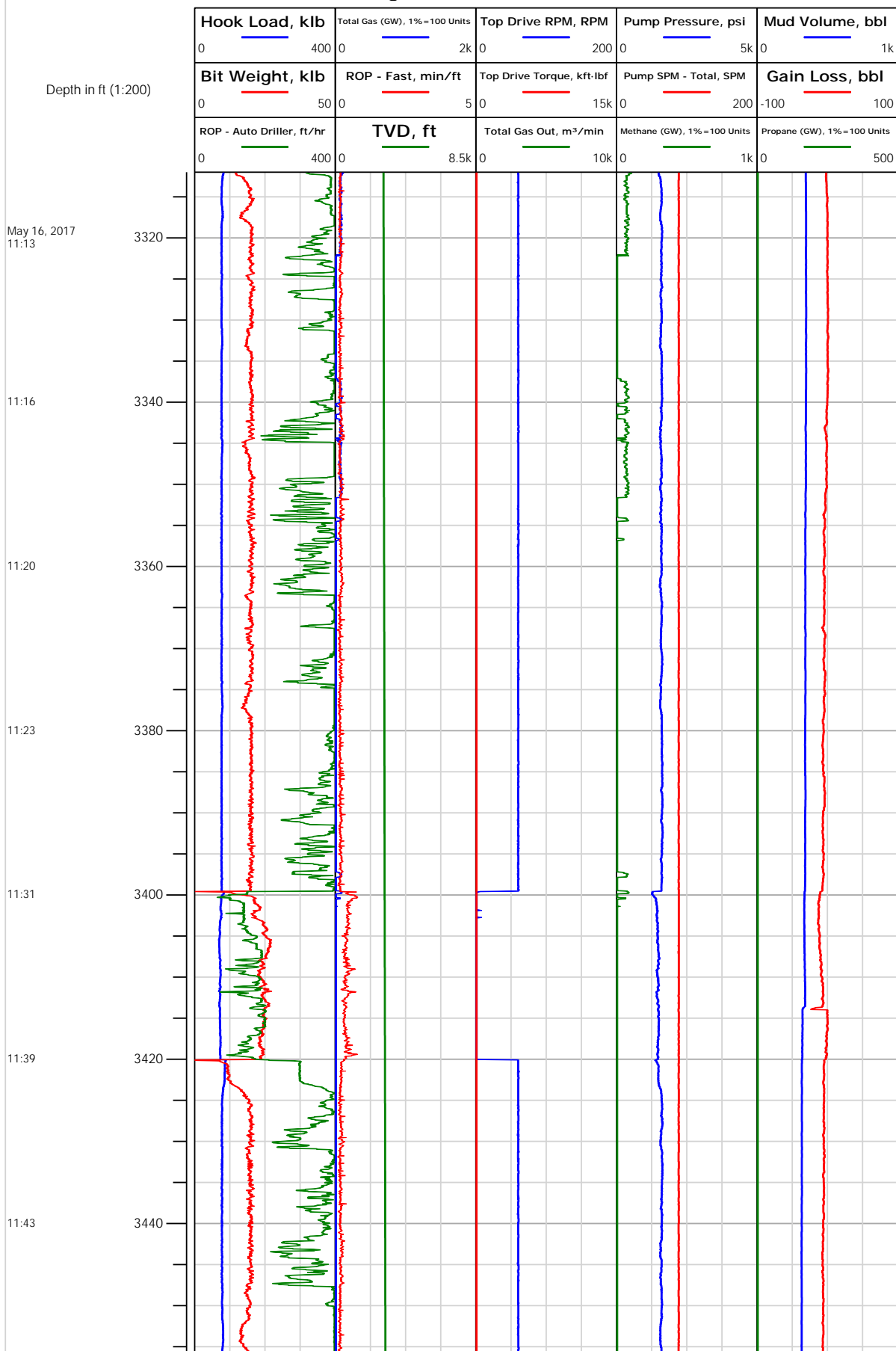
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Contractor: Helmerich & Payne Drlg Co

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Rig: 522

Location:

Notes





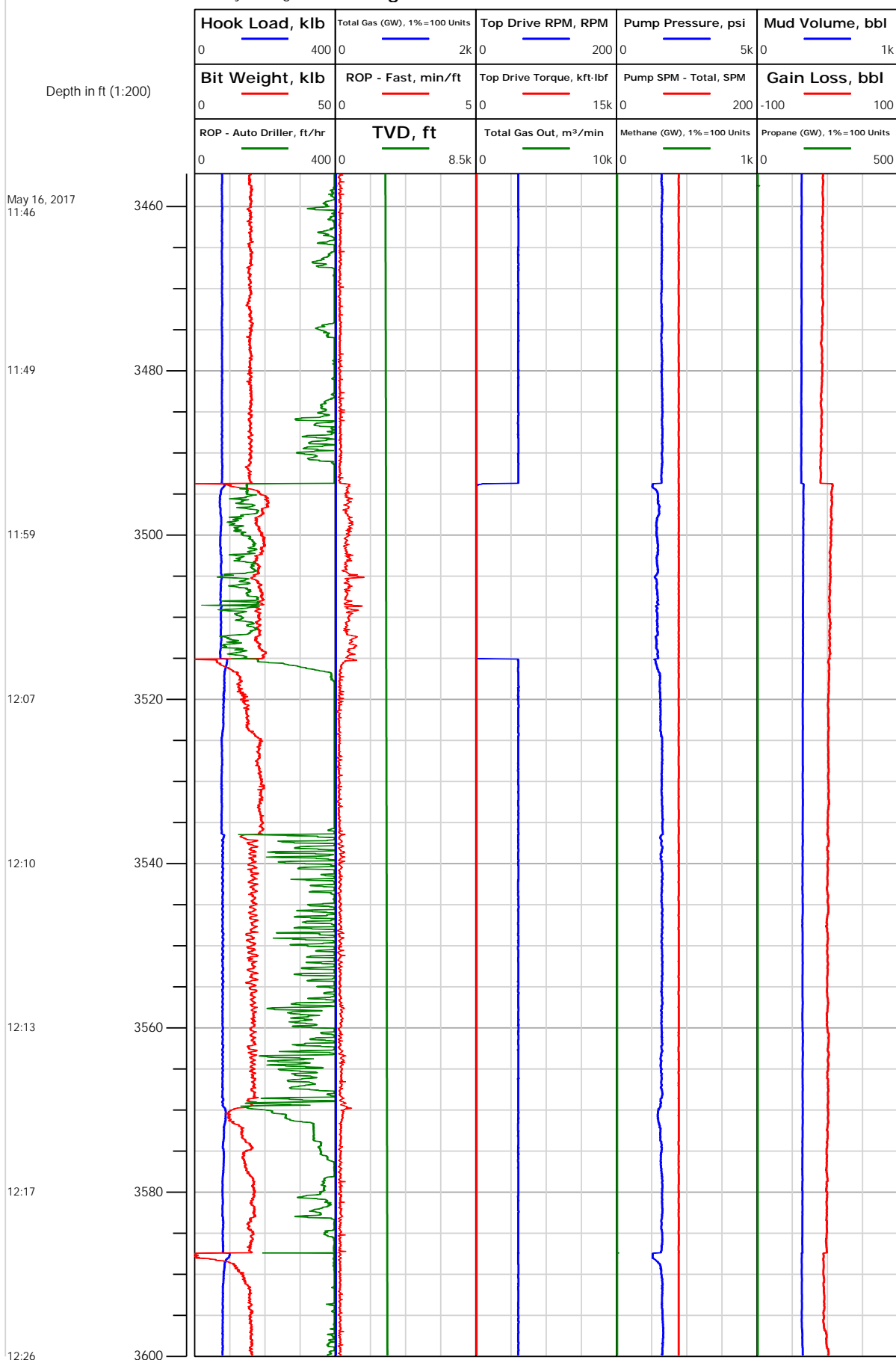
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Contractor: Helmerich & Payne Drlg Co

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Location:

Notes





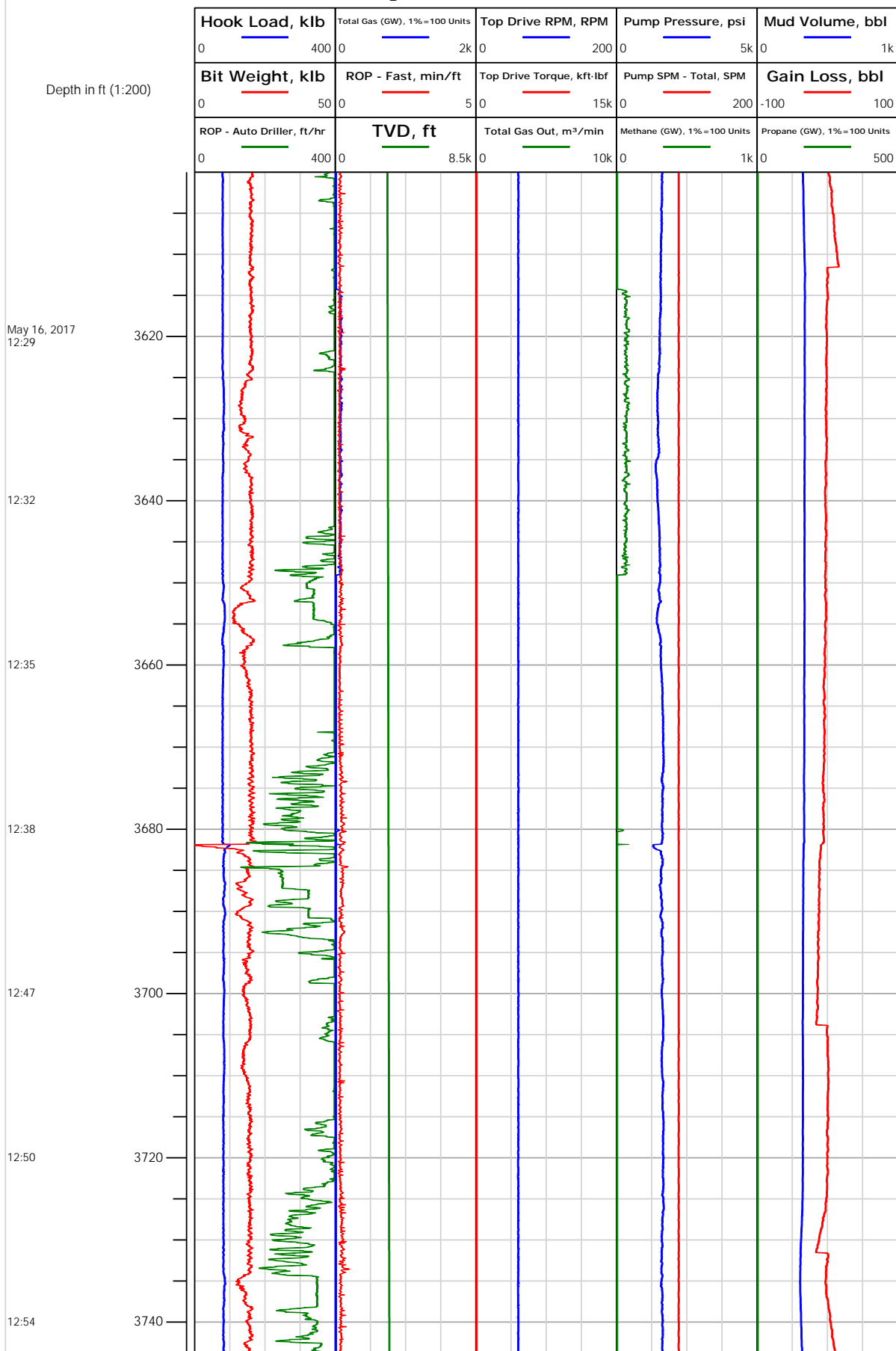
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Contractor: Helmerich & Payne Drlg Co

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Rig: 522

Location:

Notes





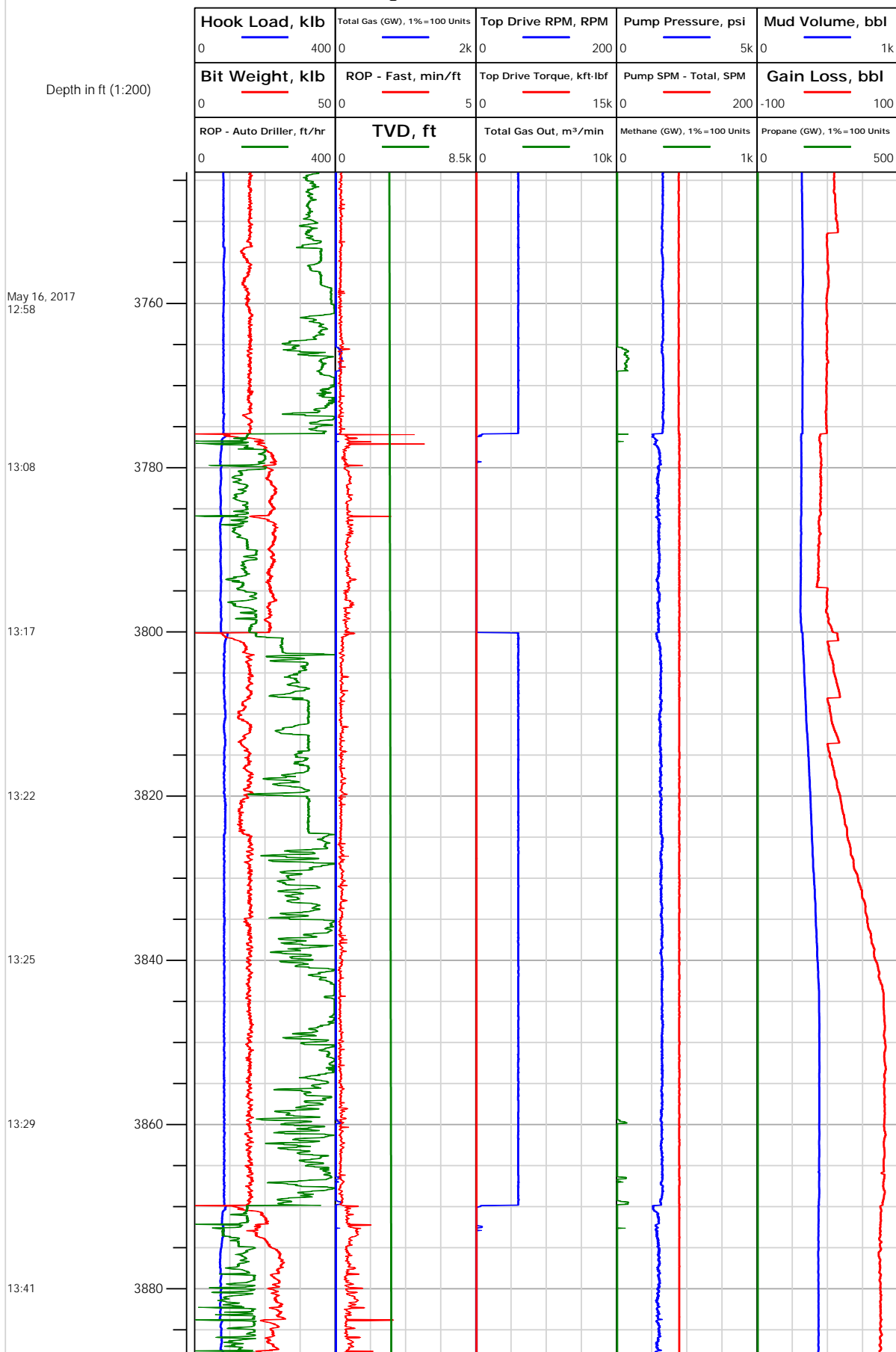
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Contractor: Helmerich & Payne Drlg Co

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Rig: 522

Location:

Notes





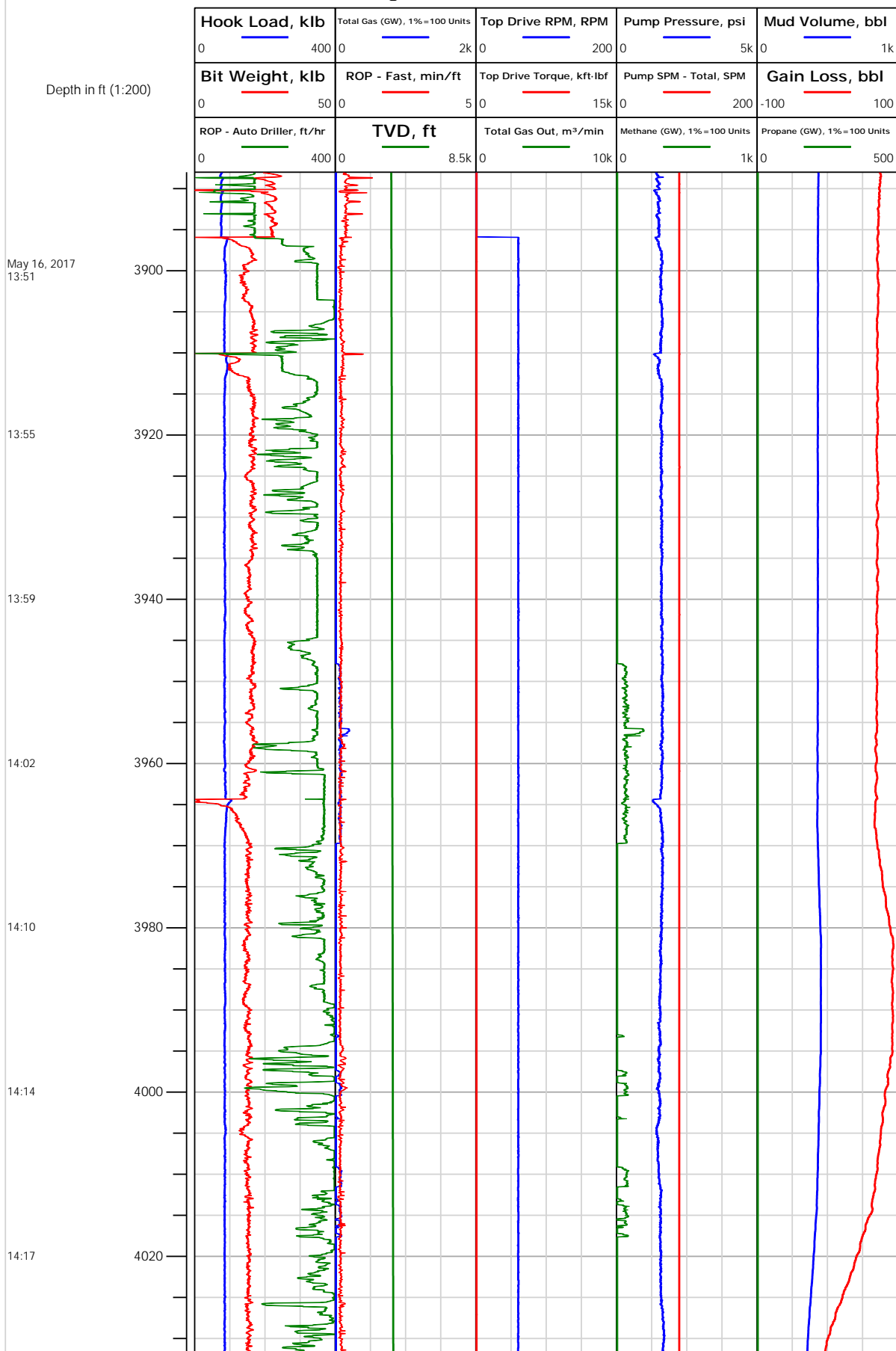
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Contractor: Helmerich & Payne Drlg Co

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Rig: 522

Location:

Notes





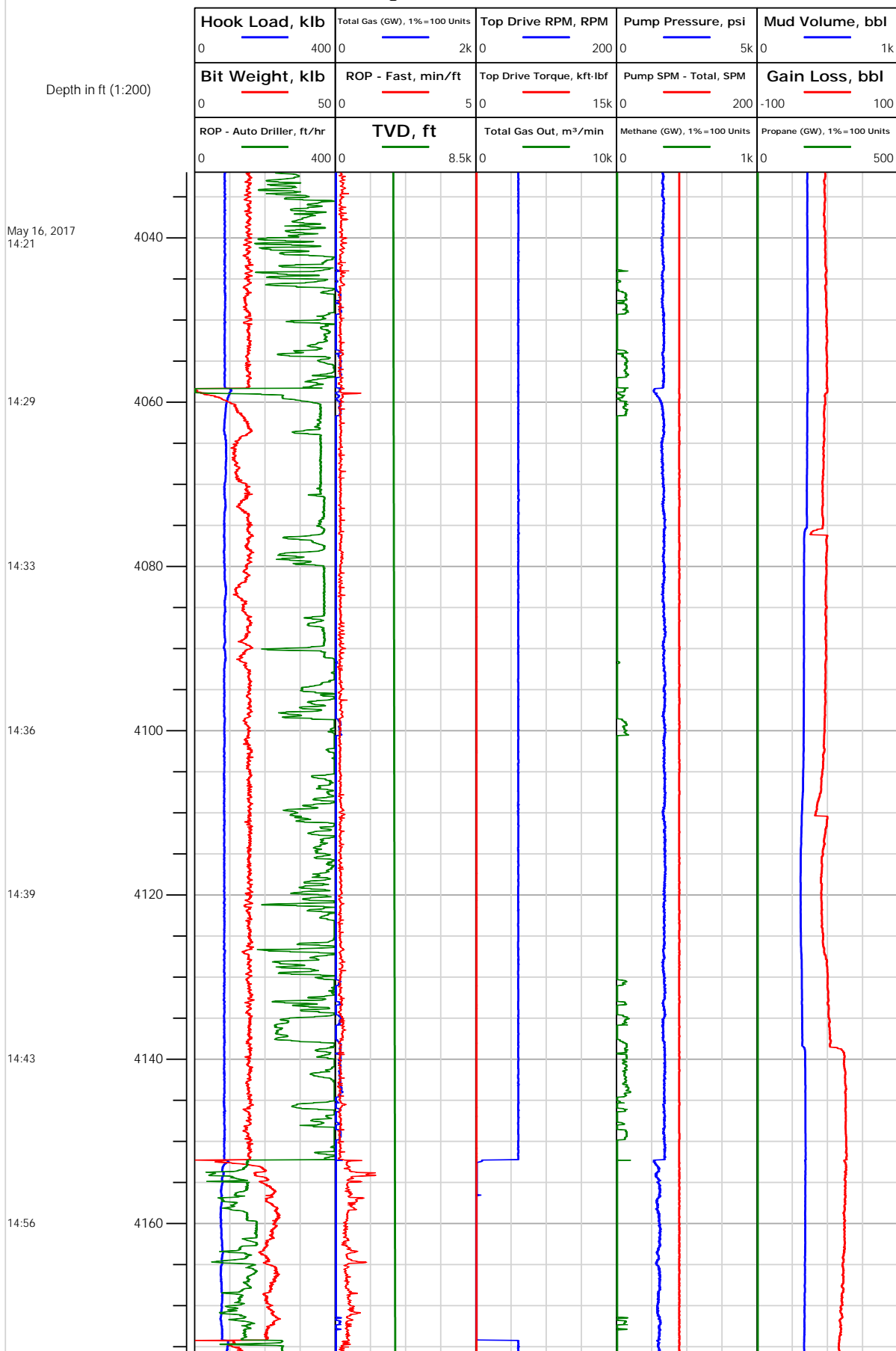
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Contractor: Helmerich & Payne Drlg Co

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Rig: 522

Location:

Notes





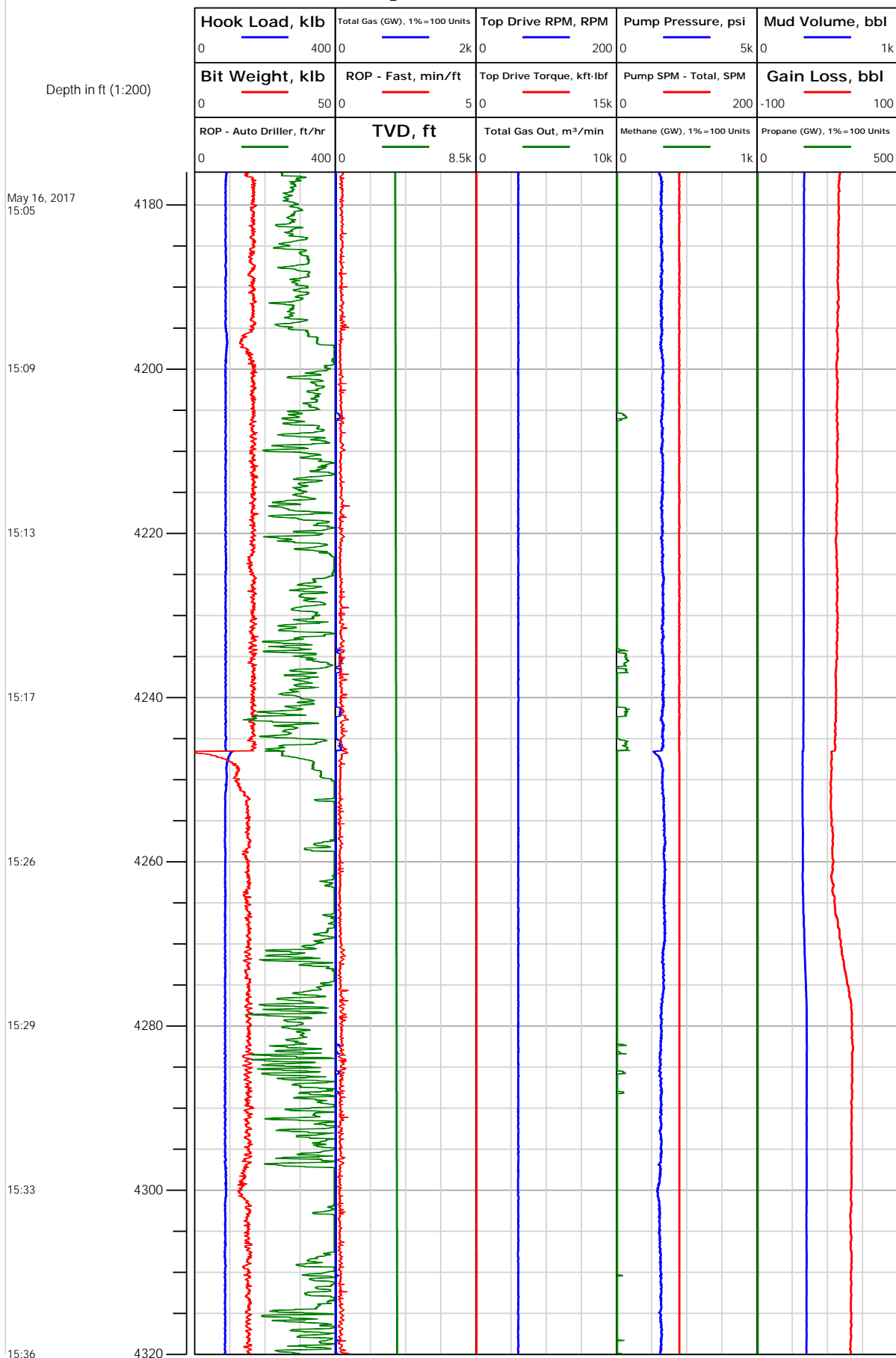
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Contractor: Helmerich & Payne Drlg Co

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Rig: 522

Location:

Notes





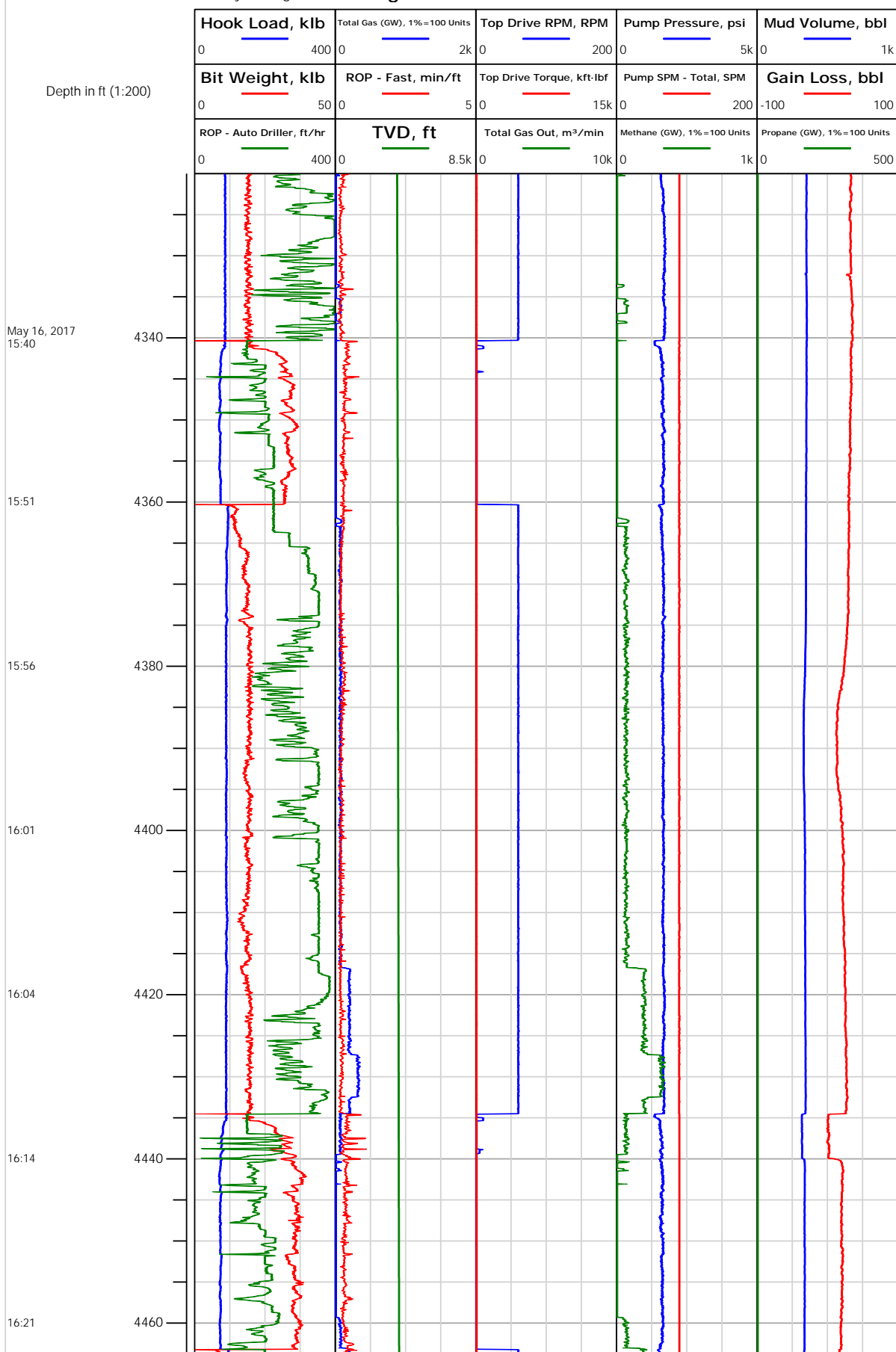
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Location:

Notes





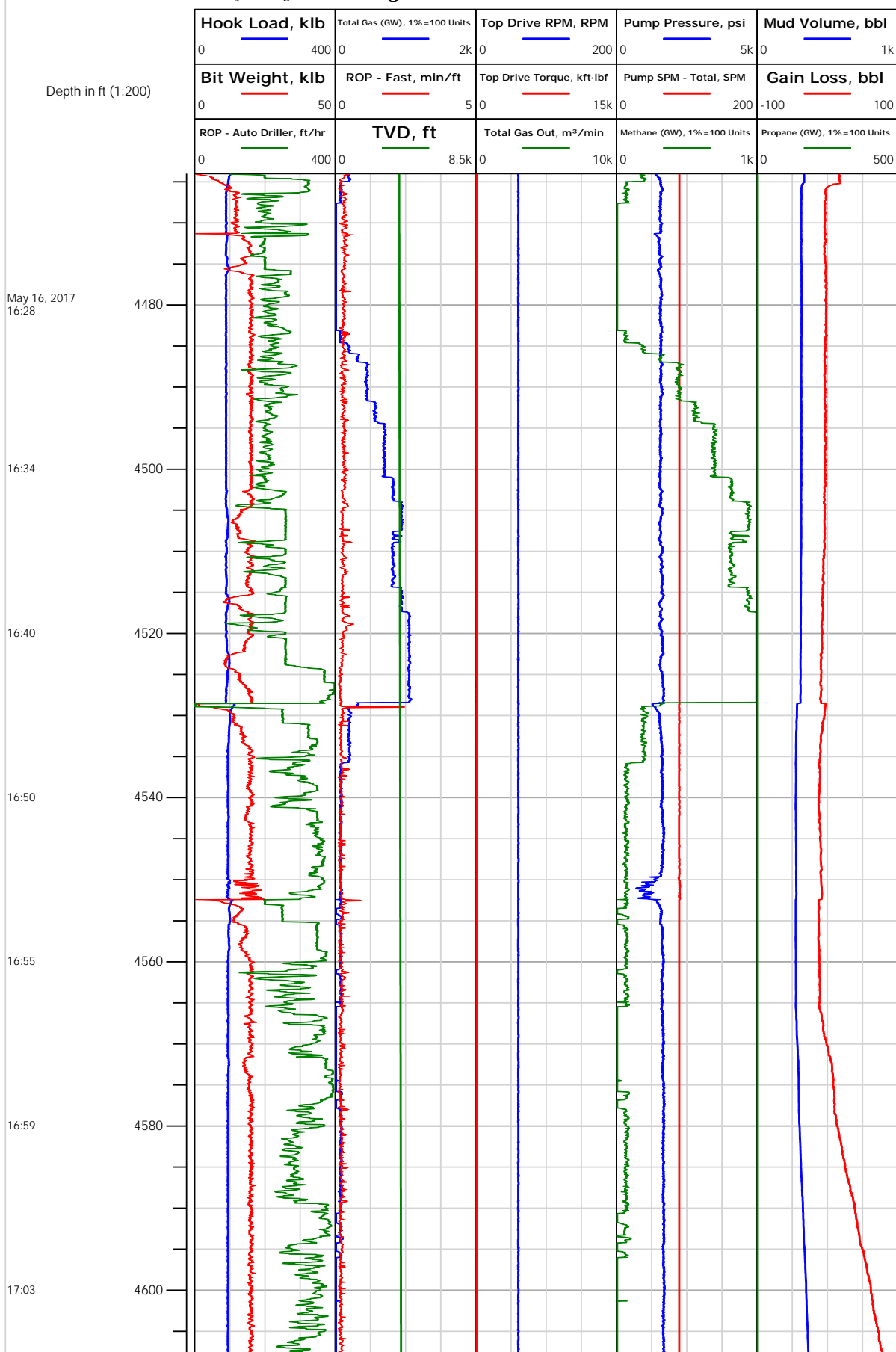
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Contractor: Helmerich & Payne Drlg Co

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Rig: 522

Location:

Notes





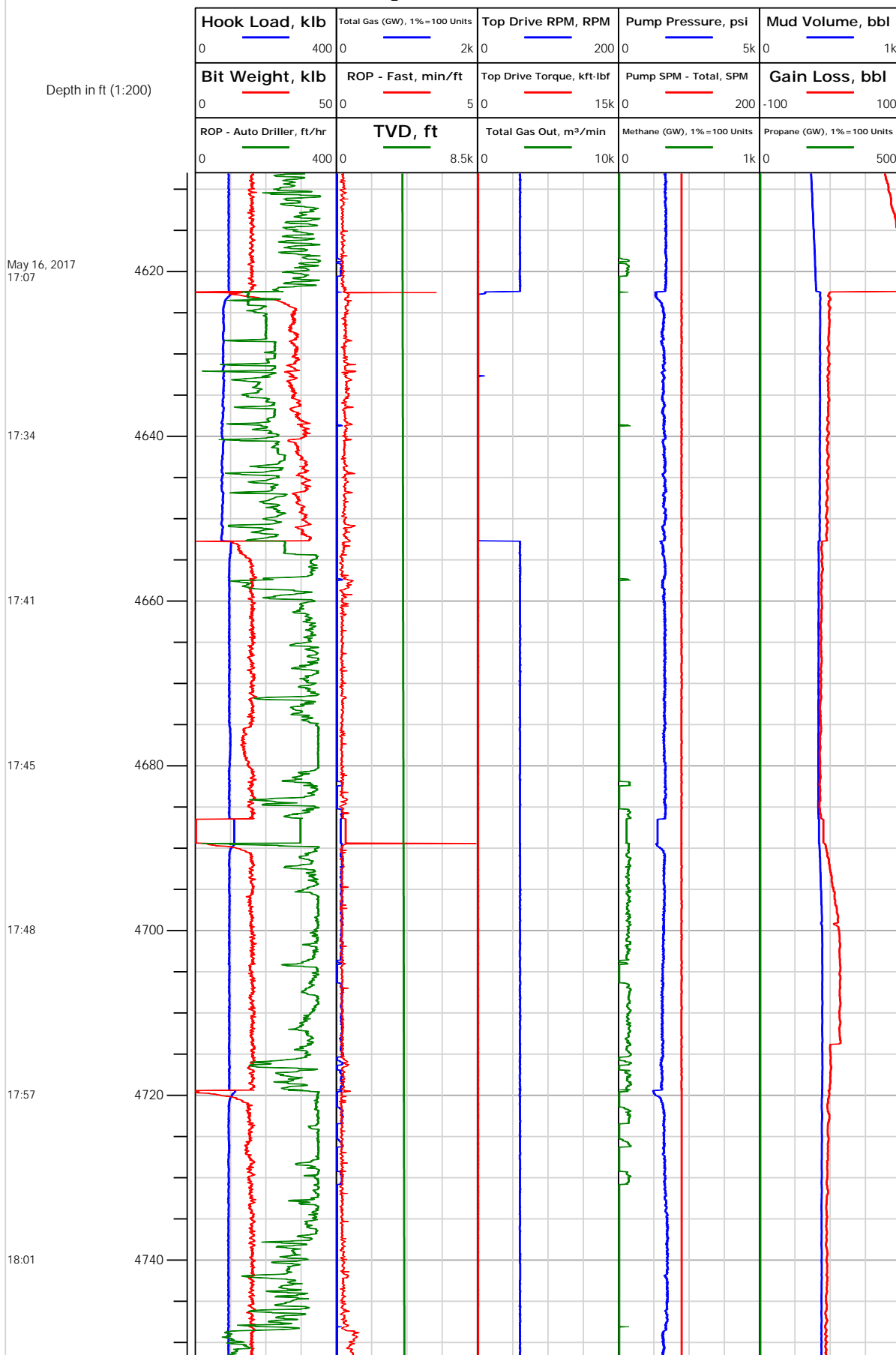
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Rig: 522

Location:

Notes





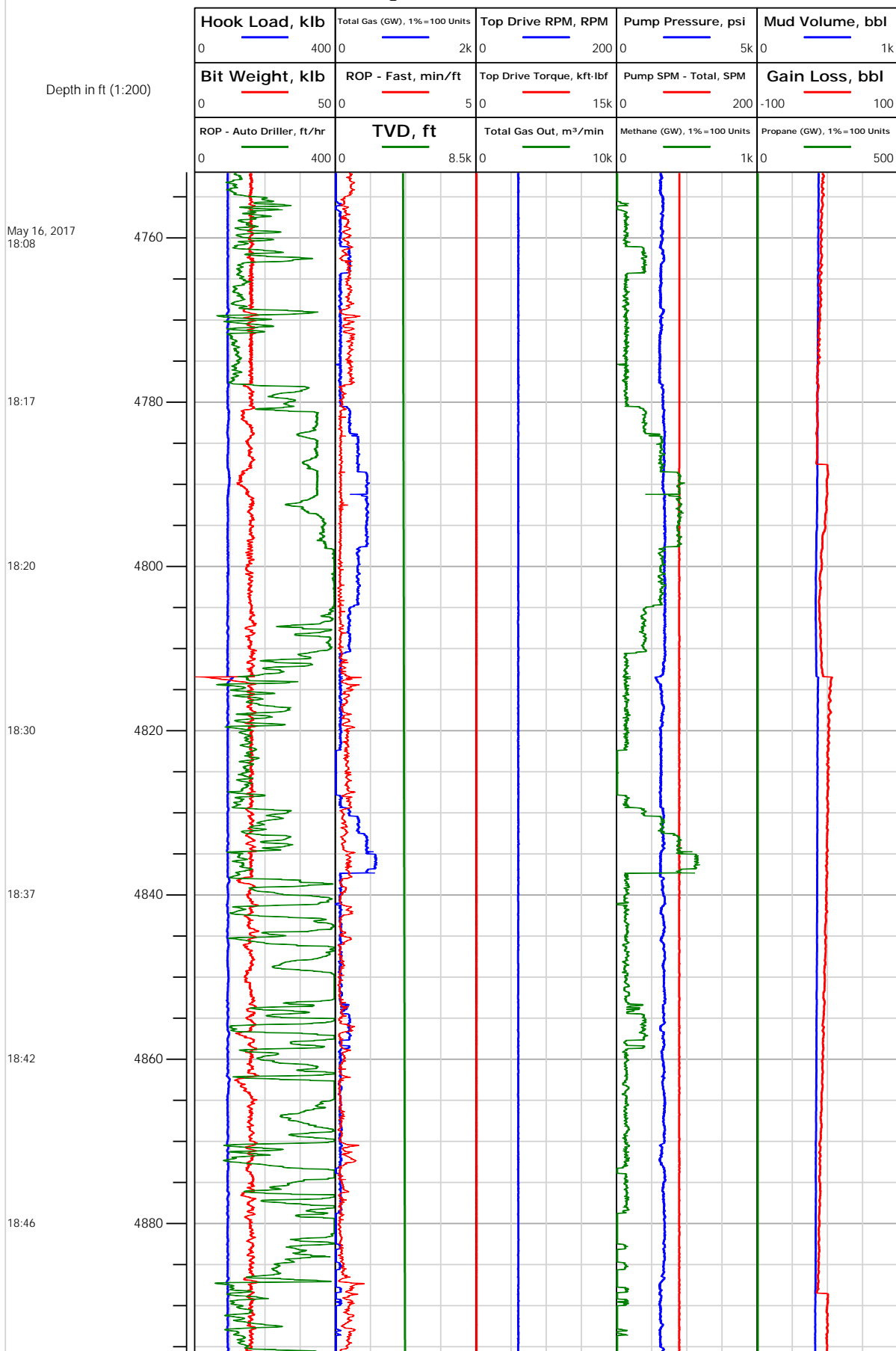
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Contractor: Helmerich & Payne Drlg Co

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Rig: 522

Location:

Notes





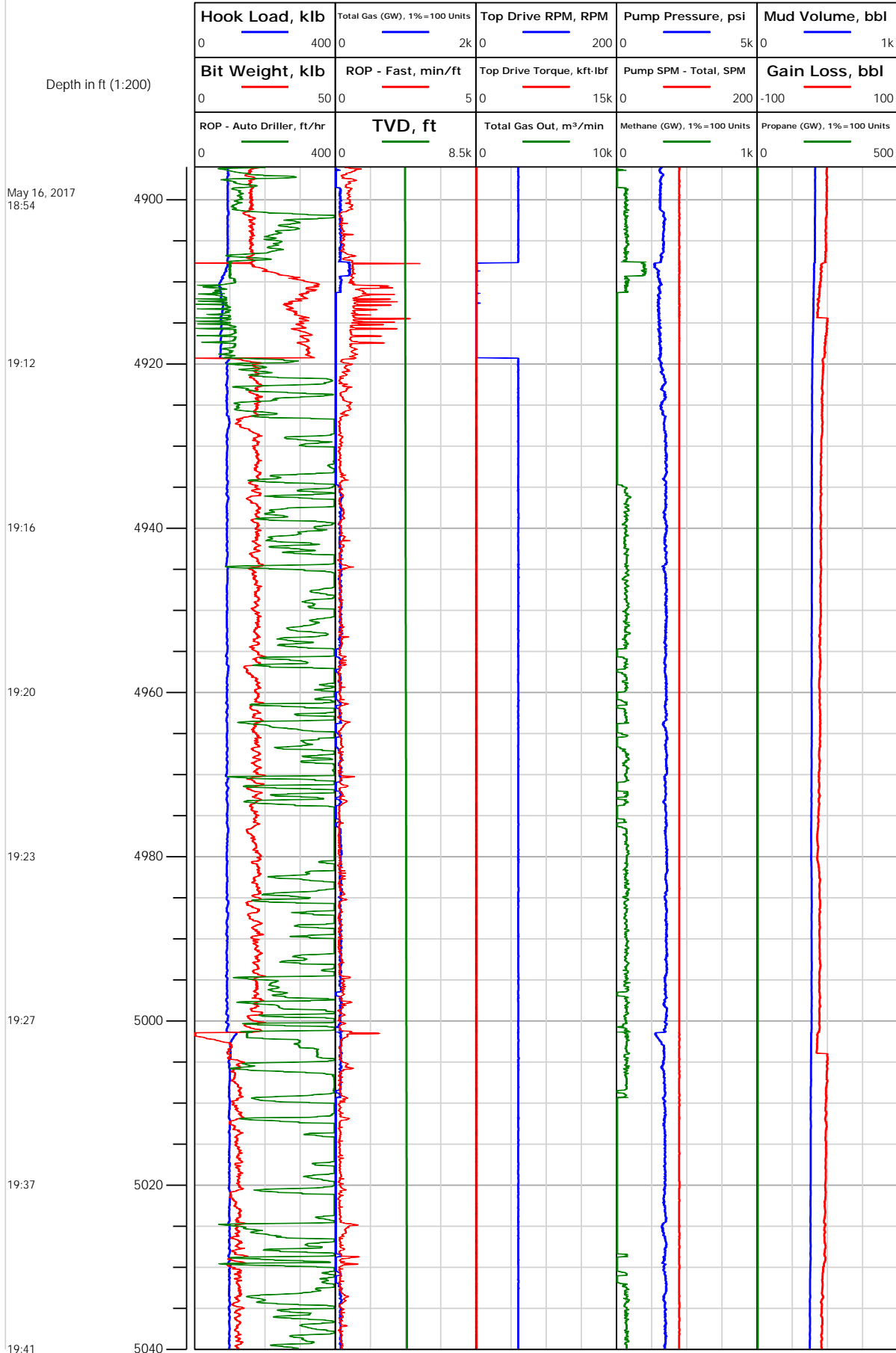
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Contractor: Helmerich & Payne Drlg Co

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Rig: 522

Location:

Notes





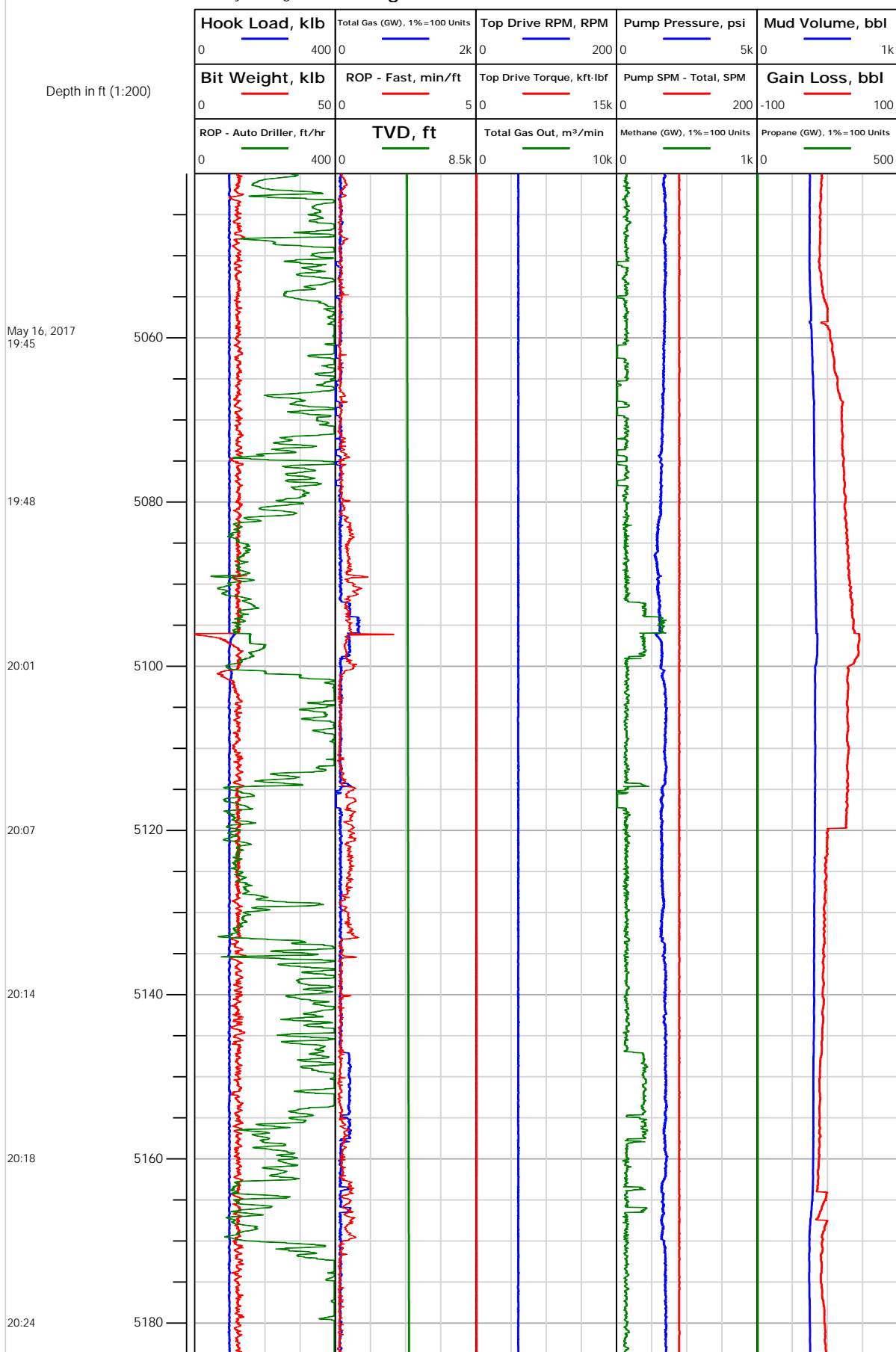
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Contractor: Helmerich & Payne Drlg Co

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Rig: 522

Location:

Notes





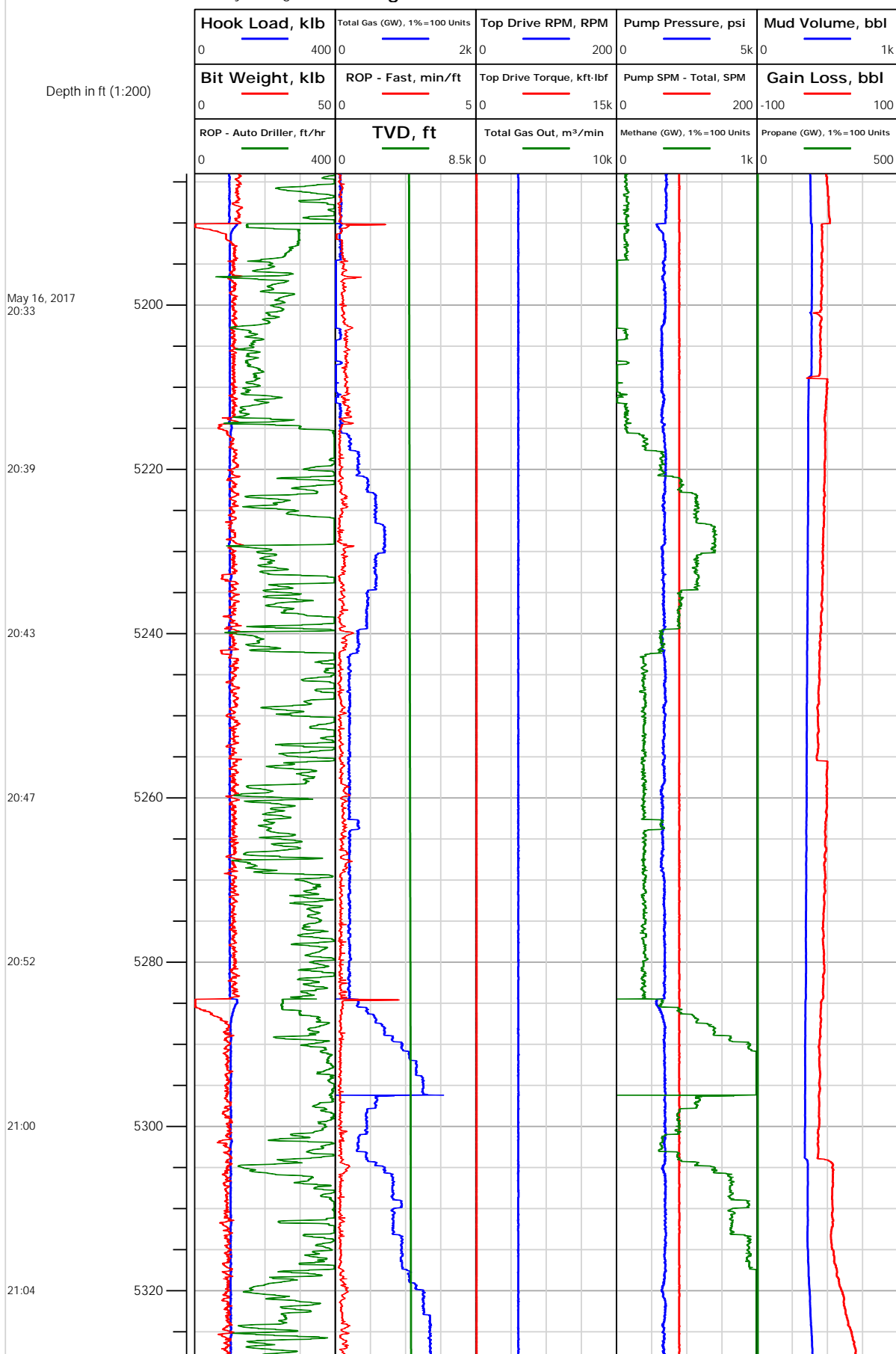
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Contractor: Helmerich & Payne Drlg Co

Well Name: Piceance Federal 29-18W
Rig: 522

Location:

Notes





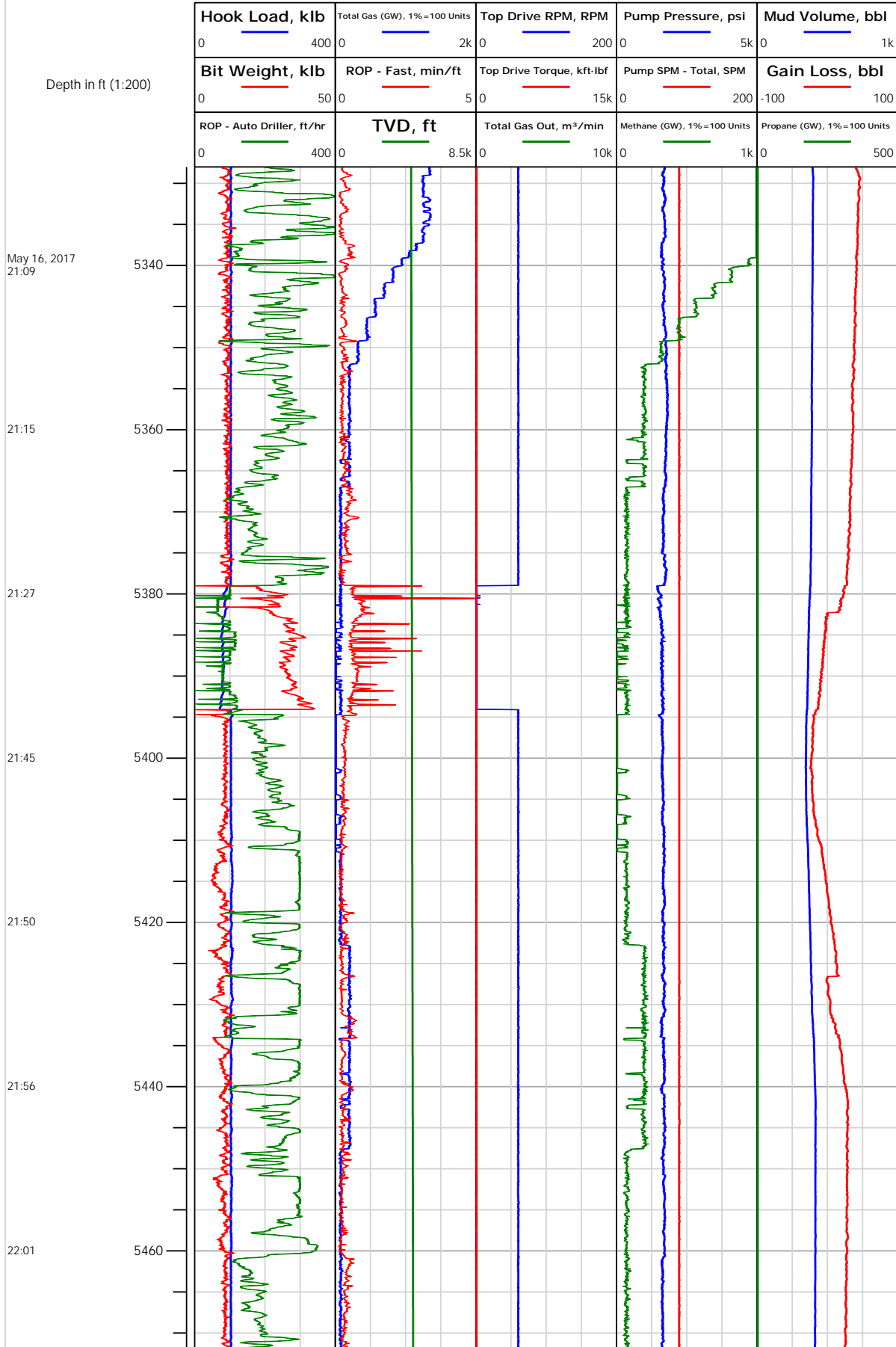
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Contractor: Helmerich & Payne Drlg Co

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Rig: 522

Location:

Notes





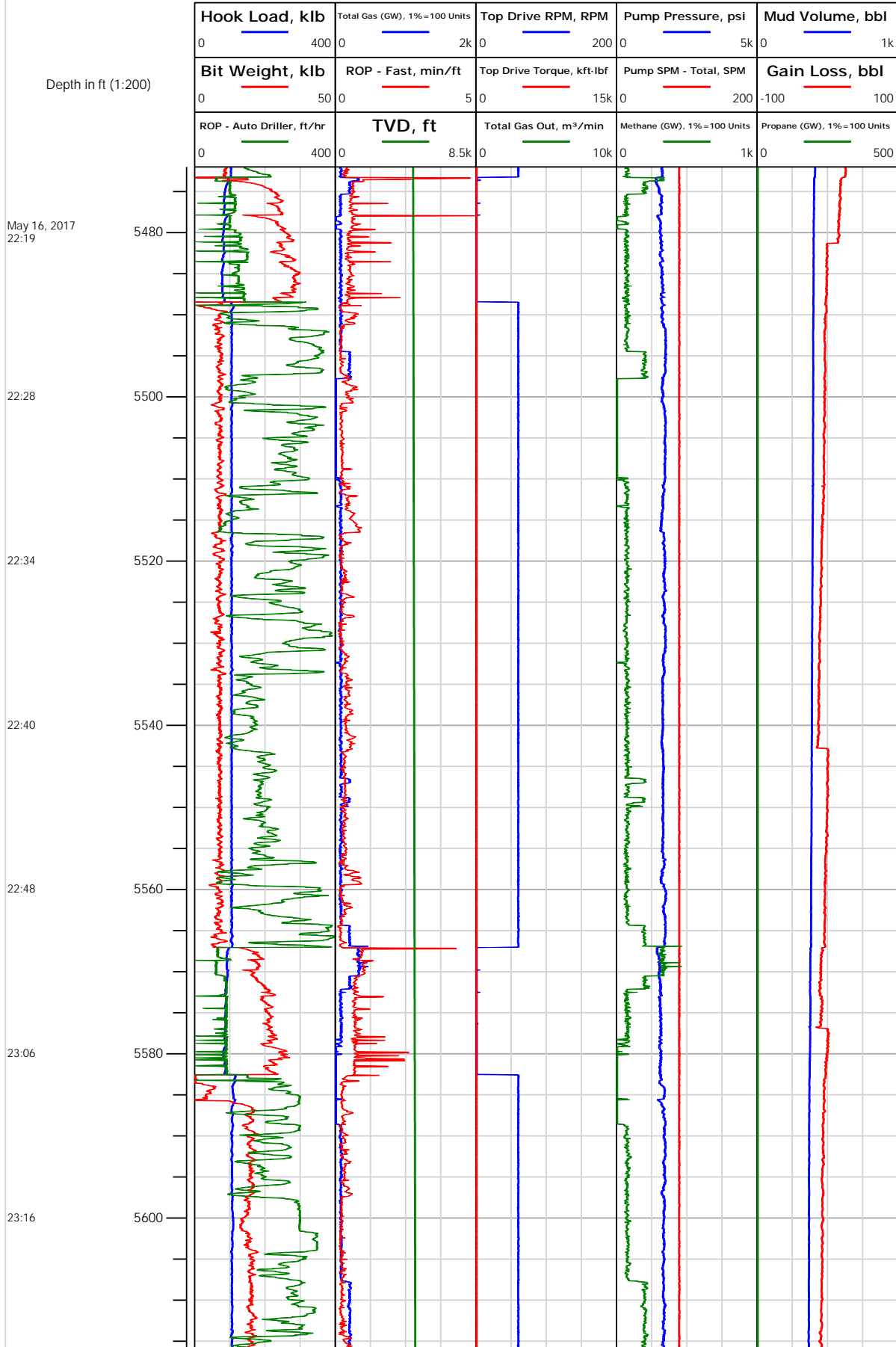
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Contractor: Helmerich & Payne Drlg Co

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Location:

Notes





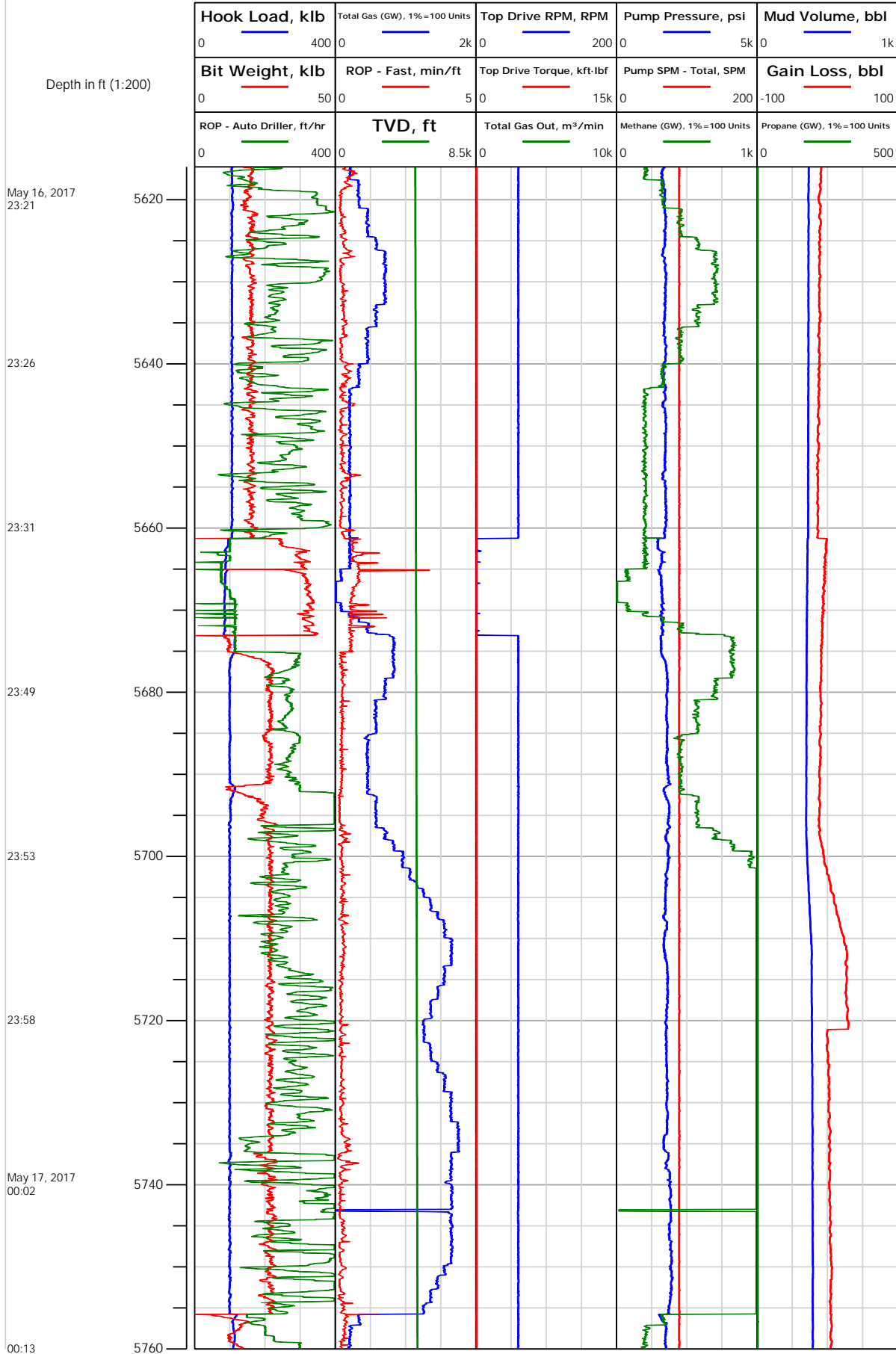
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Location:

Notes





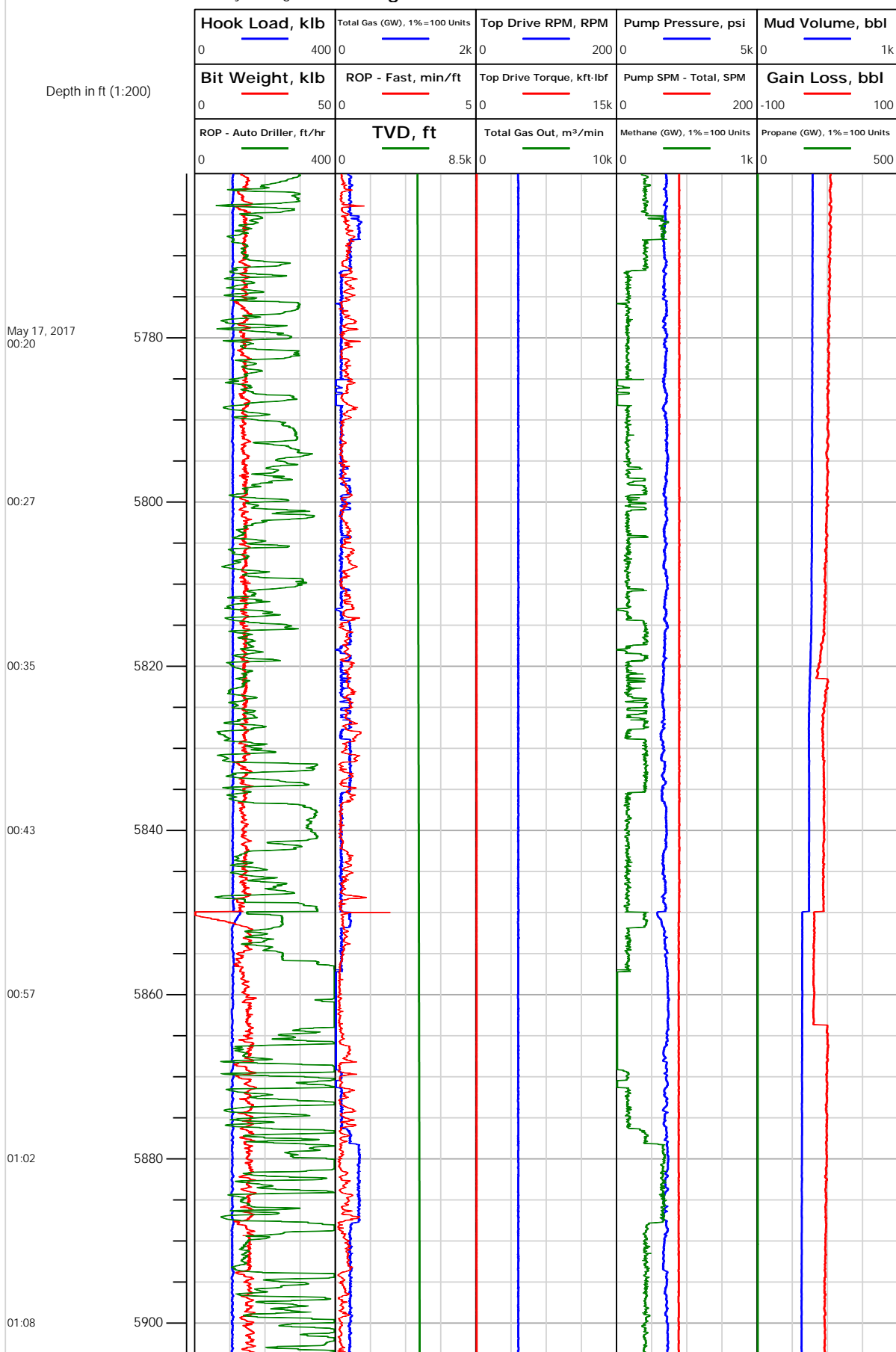
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Location:

Notes





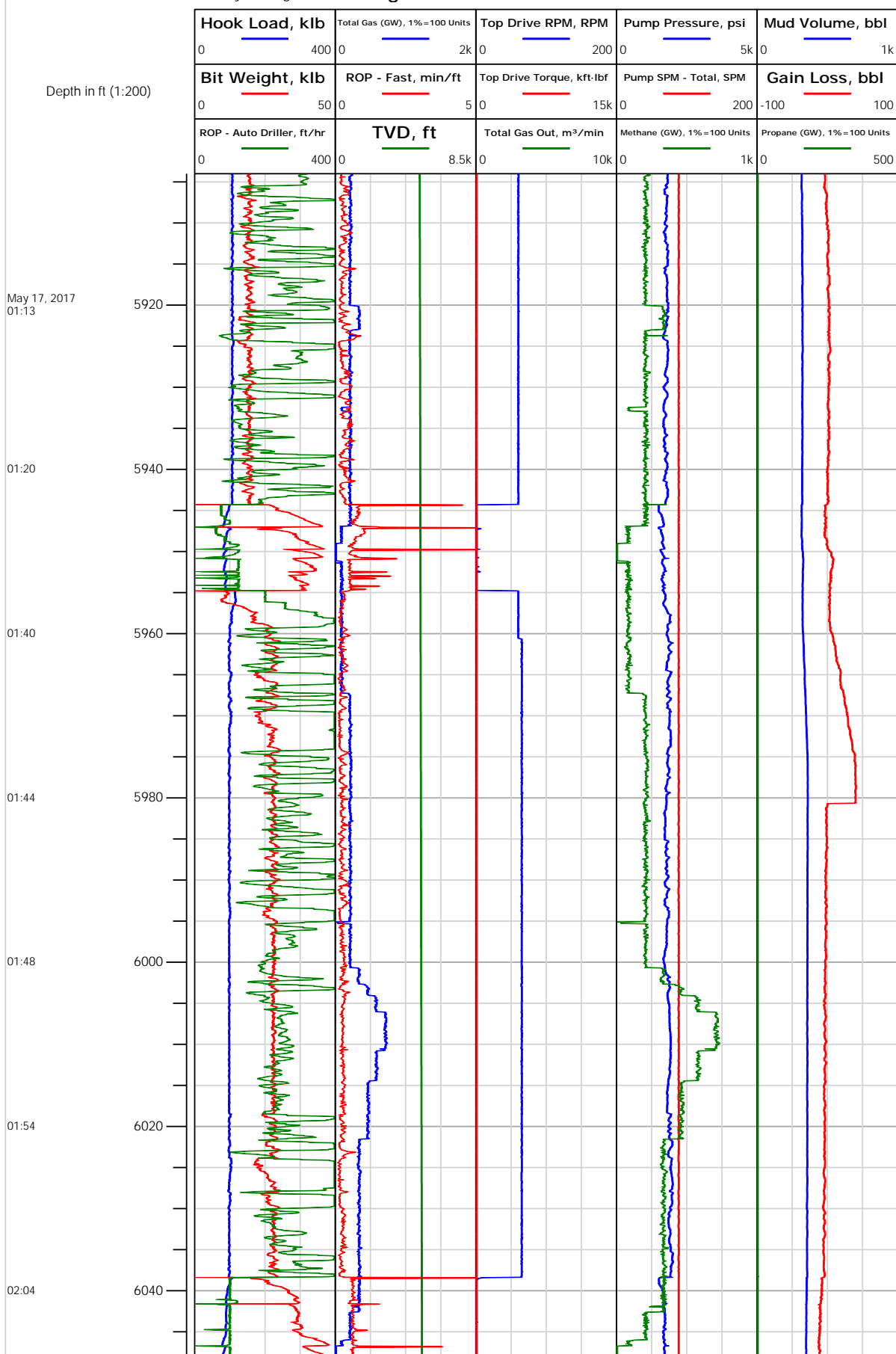
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Contractor: Helmerich & Payne Drlg Co

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Location:

Notes





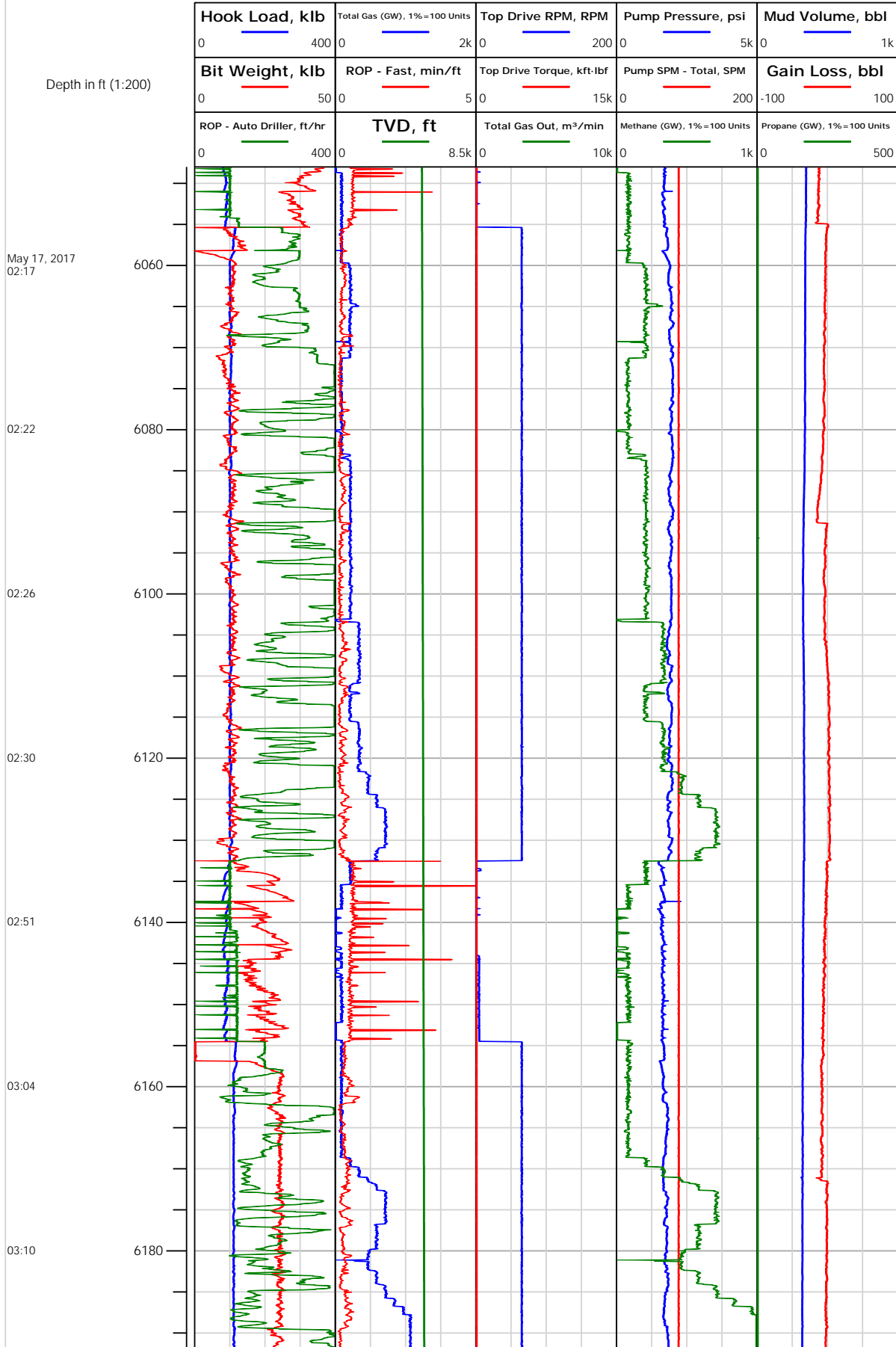
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Contractor: Helmerich & Payne Drlg Co

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Location:

Notes





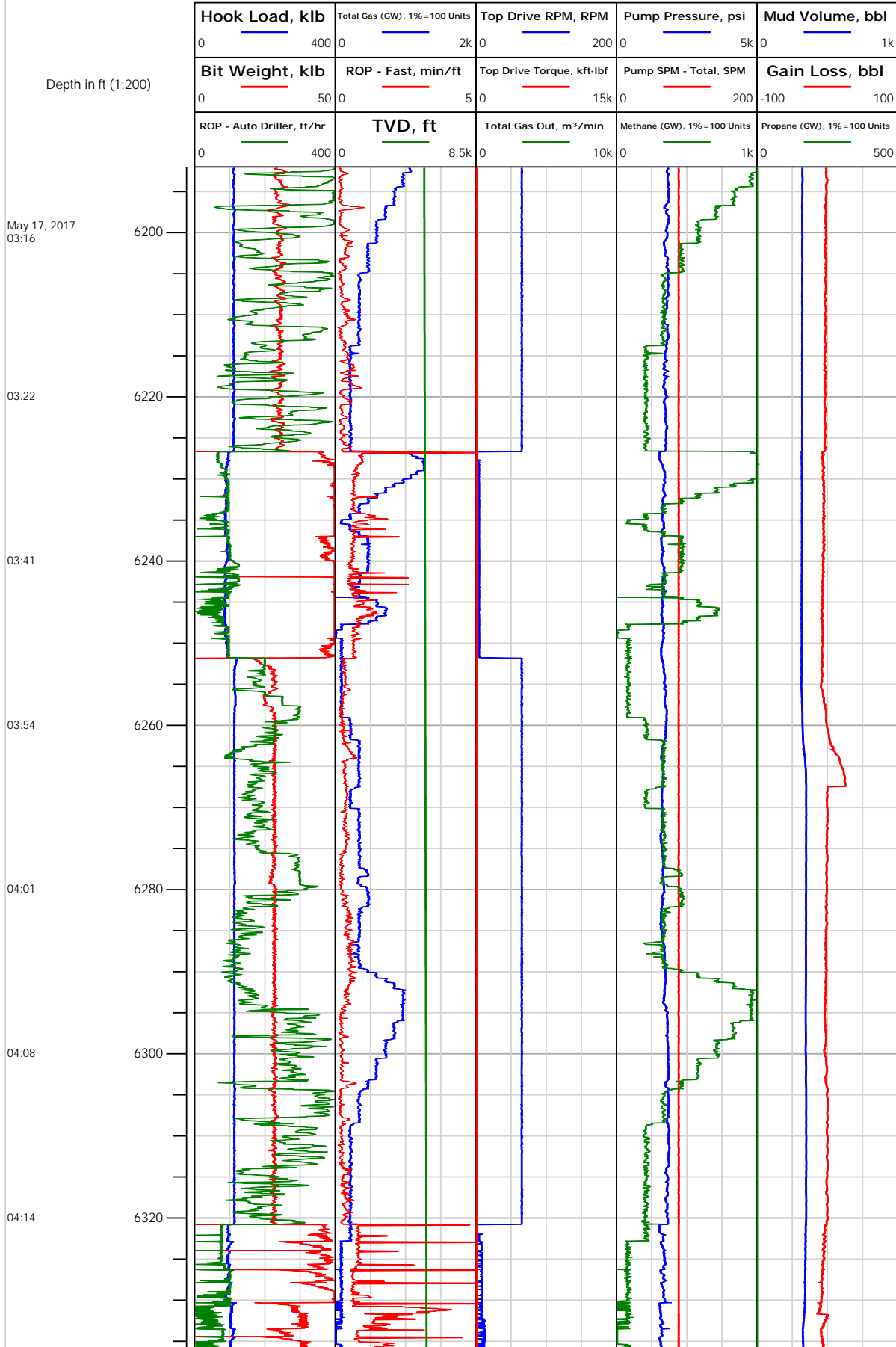
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Contractor: Helmerich & Payne Drlg Co

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Rig: 522

Location:

Notes





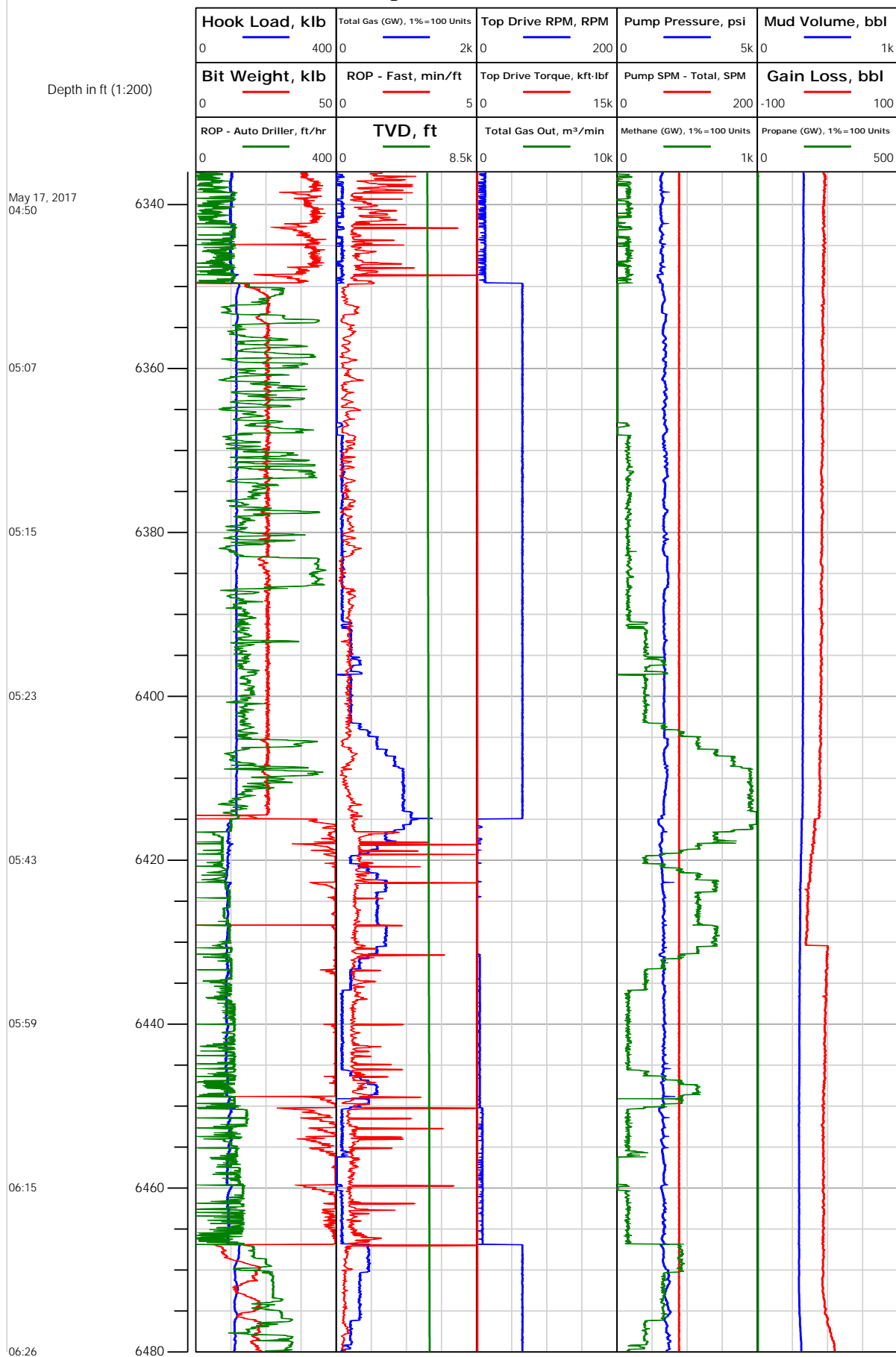
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Rig: 522

Location:

Notes





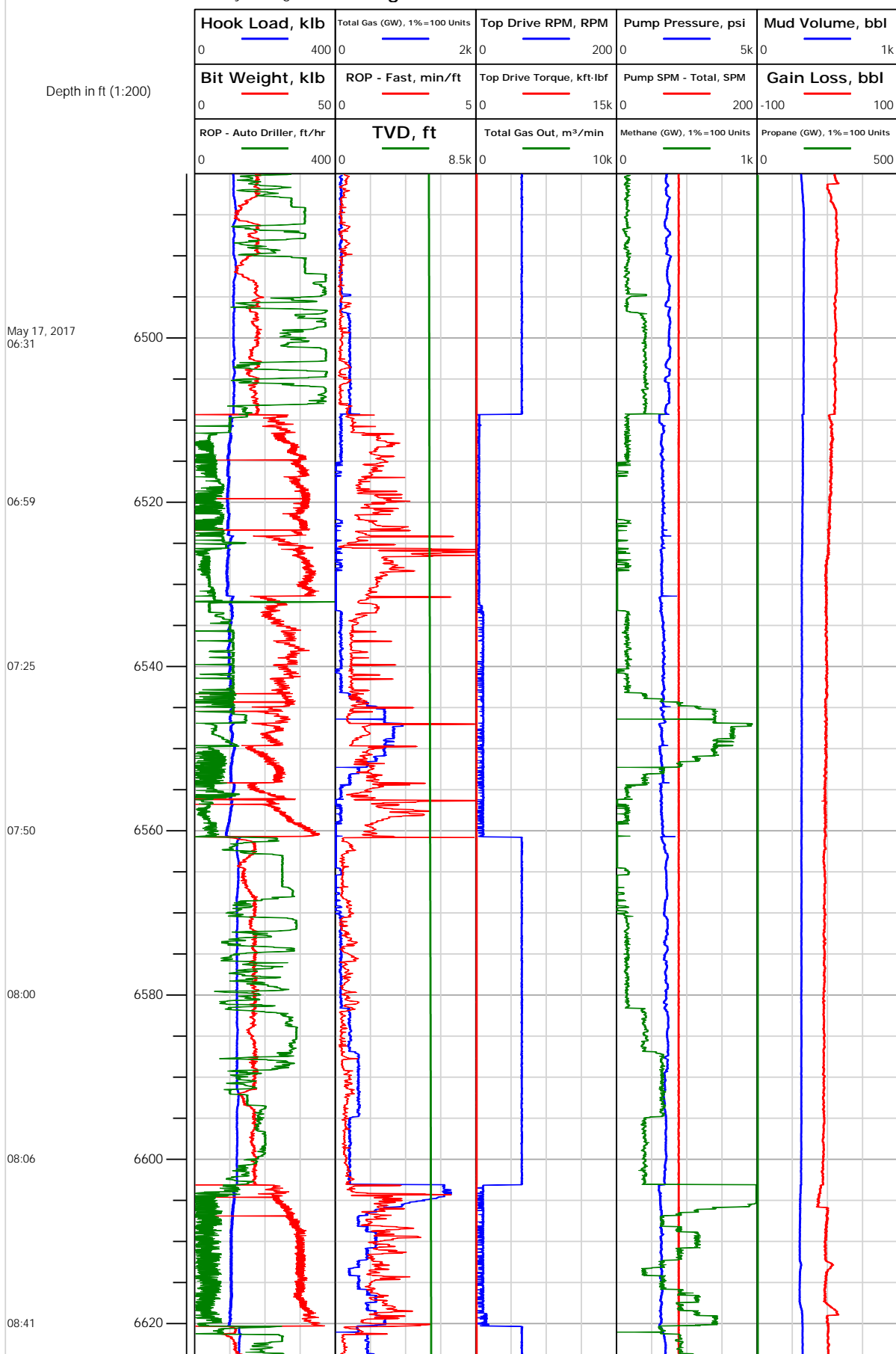
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Contractor: Helmerich & Payne Drlg Co

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Rig: 522

Location:

Notes





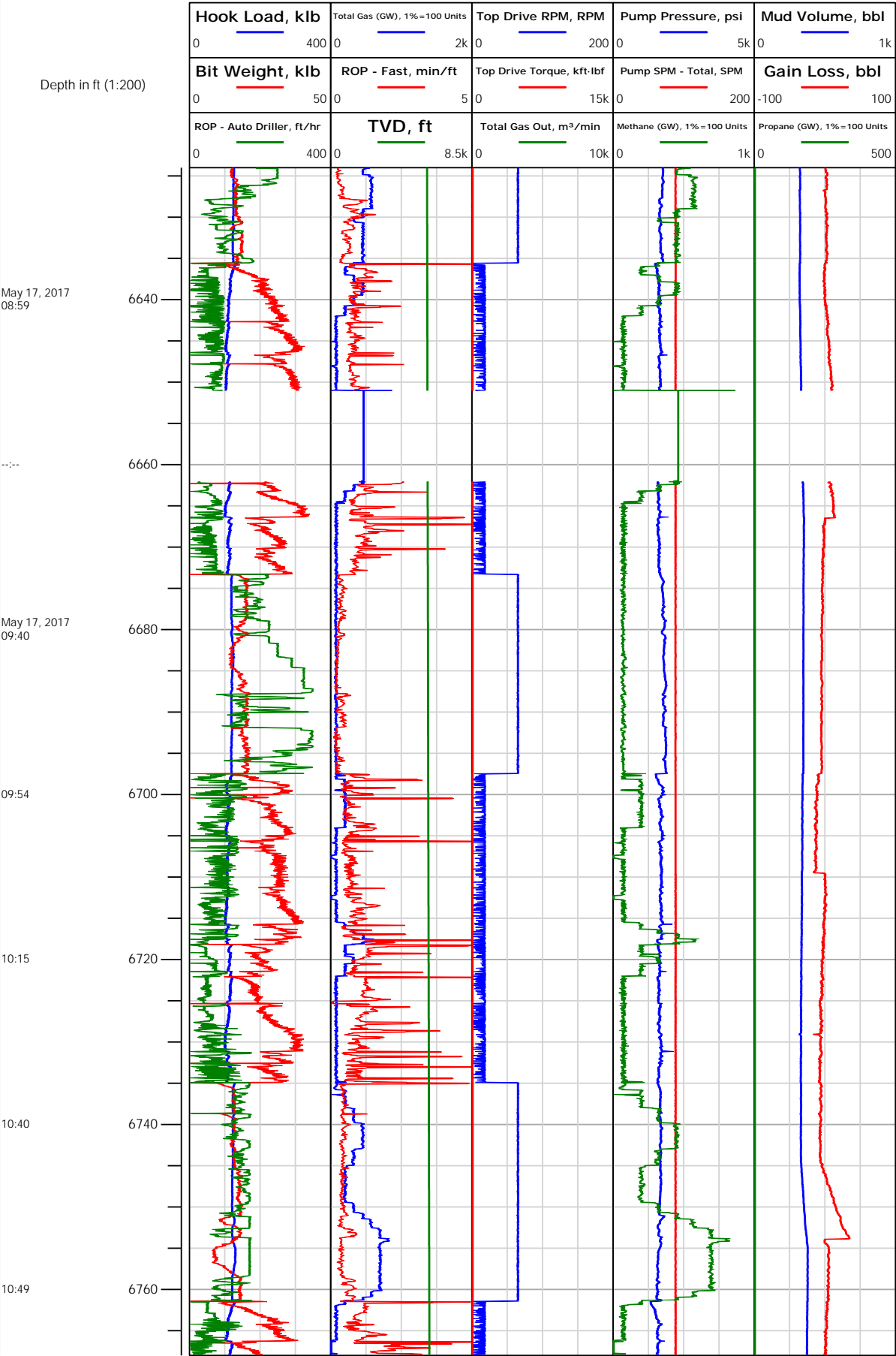
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Location:

Notes





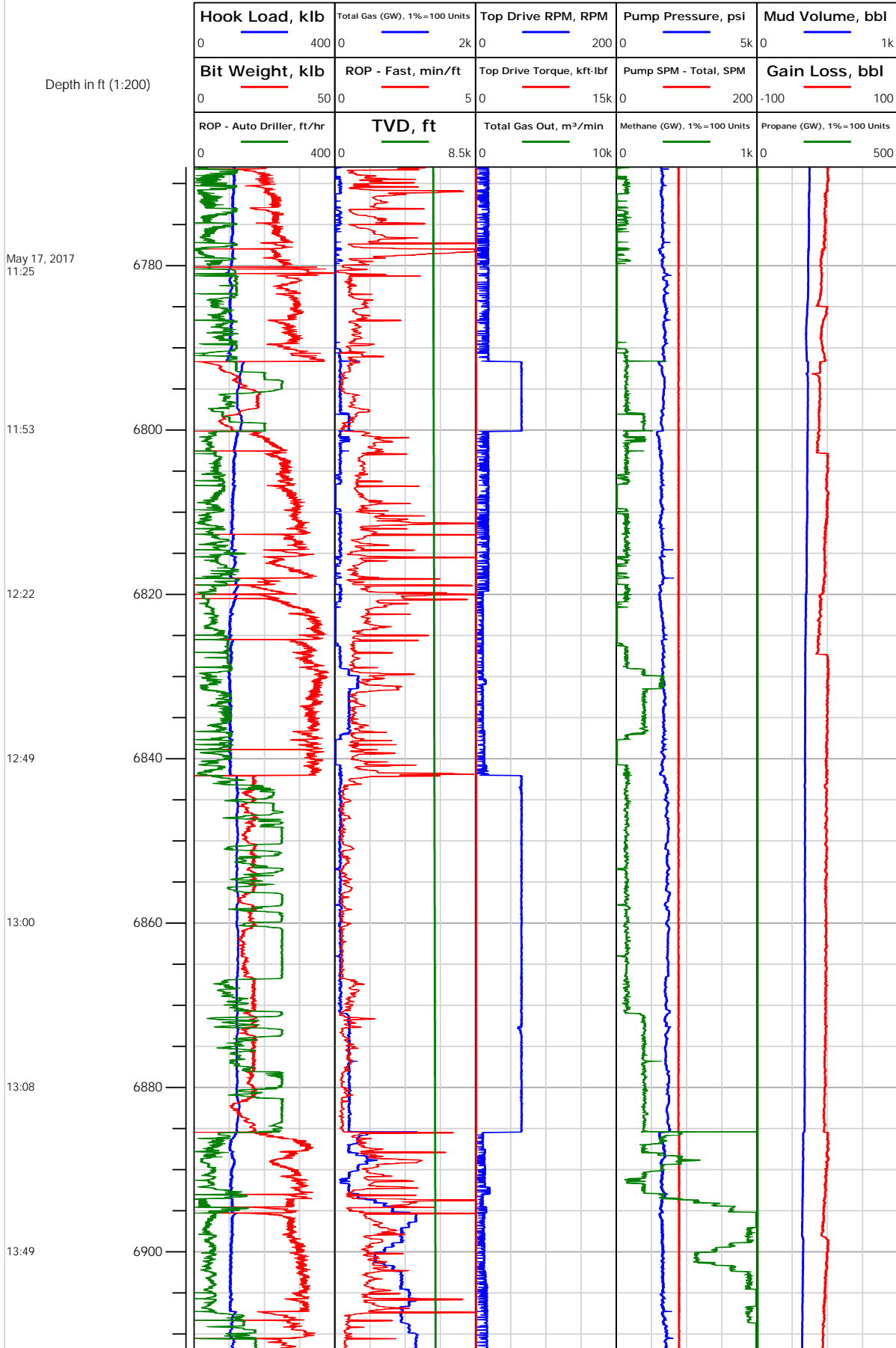
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Contractor: Helmerich & Payne Drlg Co

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Rig: 522

Location:

Notes





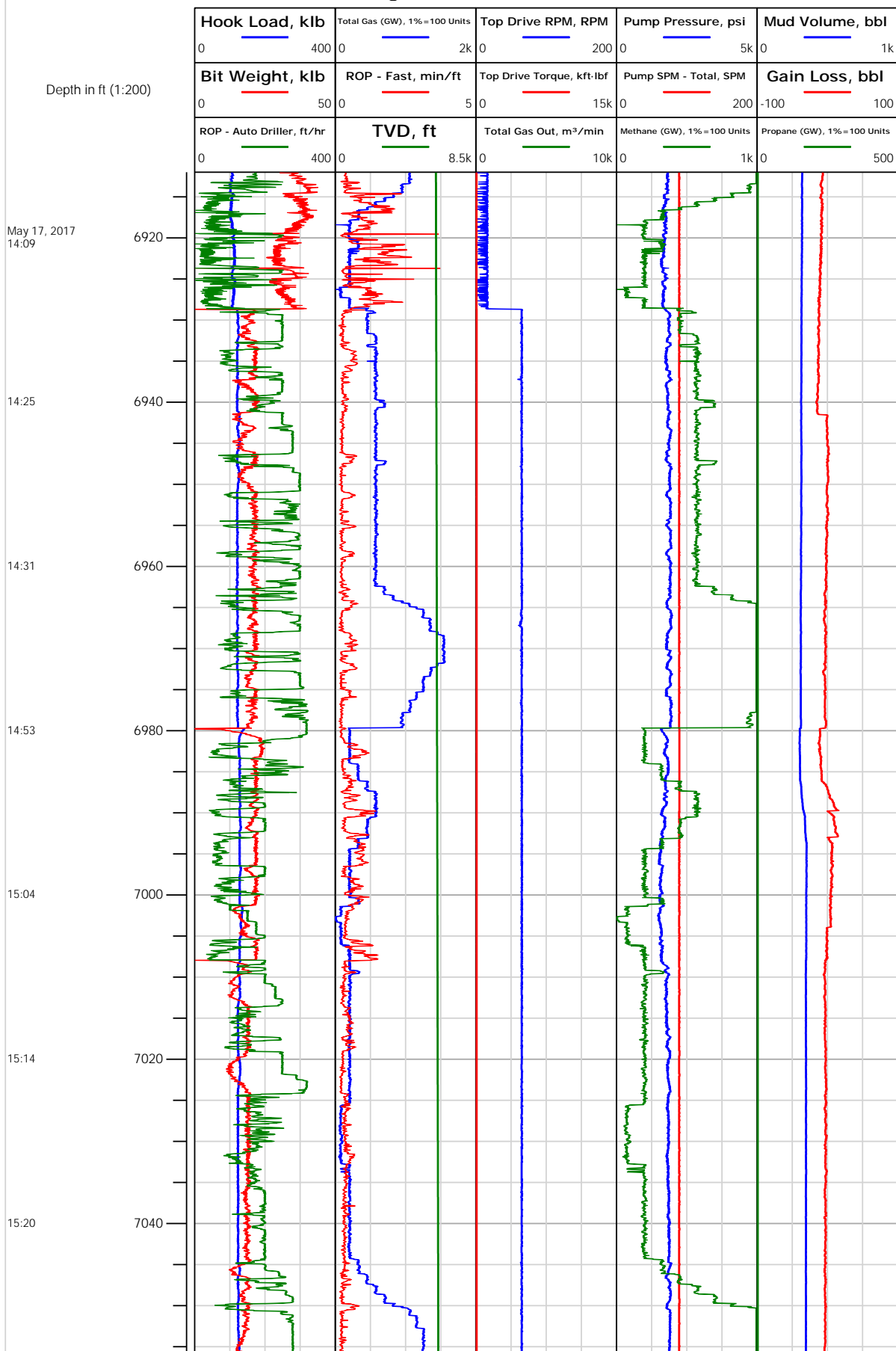
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Contractor: Helmerich & Payne Drlg Co

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Rig: 522

Location:

Notes





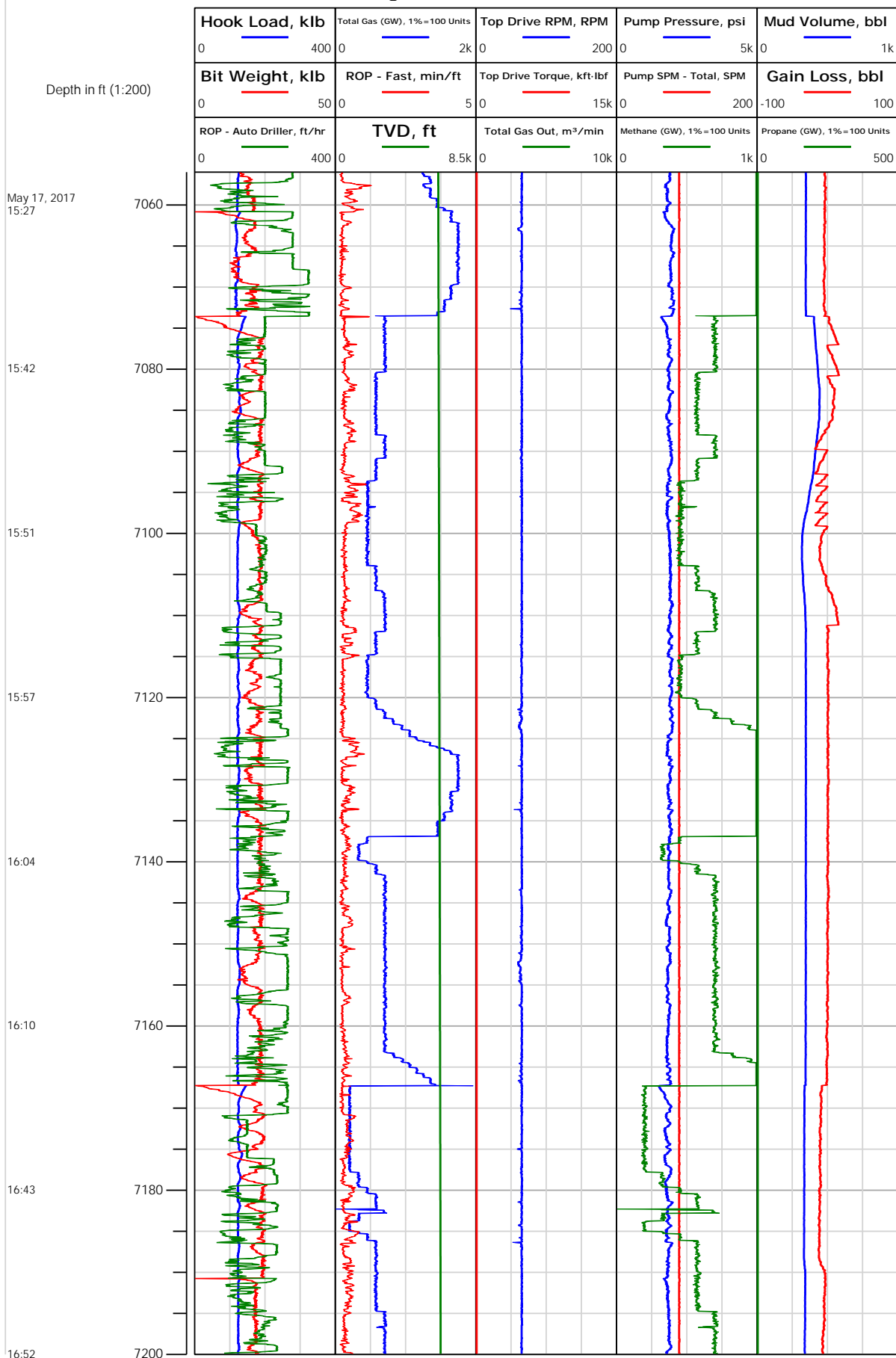
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Contractor: Helmerich & Payne Drlg Co

Well Name: Piceance Federal 29-18W
Rig: 522

Location:

Notes





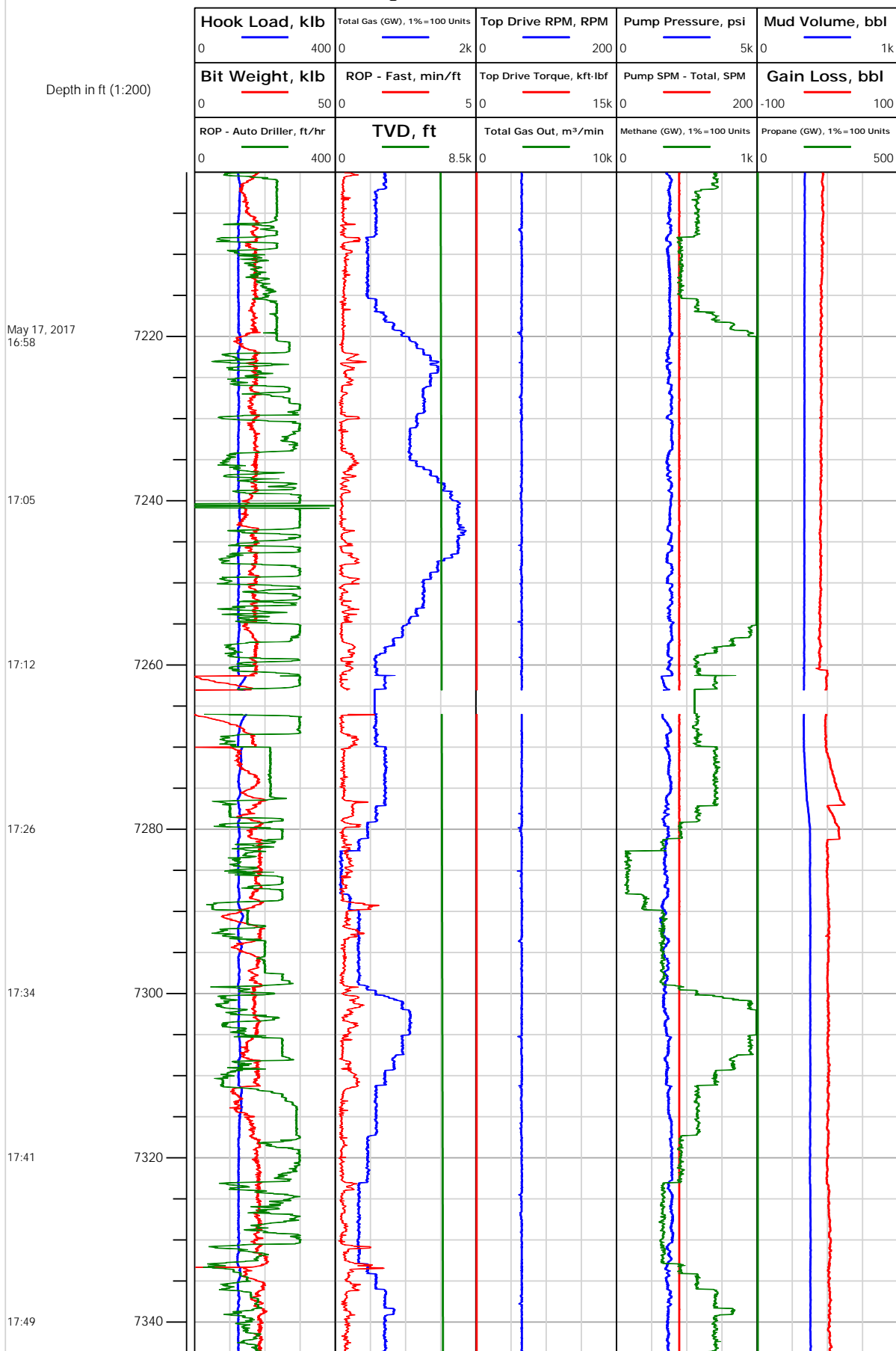
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Contractor: Helmerich & Payne Drlg Co

Well Name: Piceance Federal 29-18W
Rig: 522

Location:

Notes





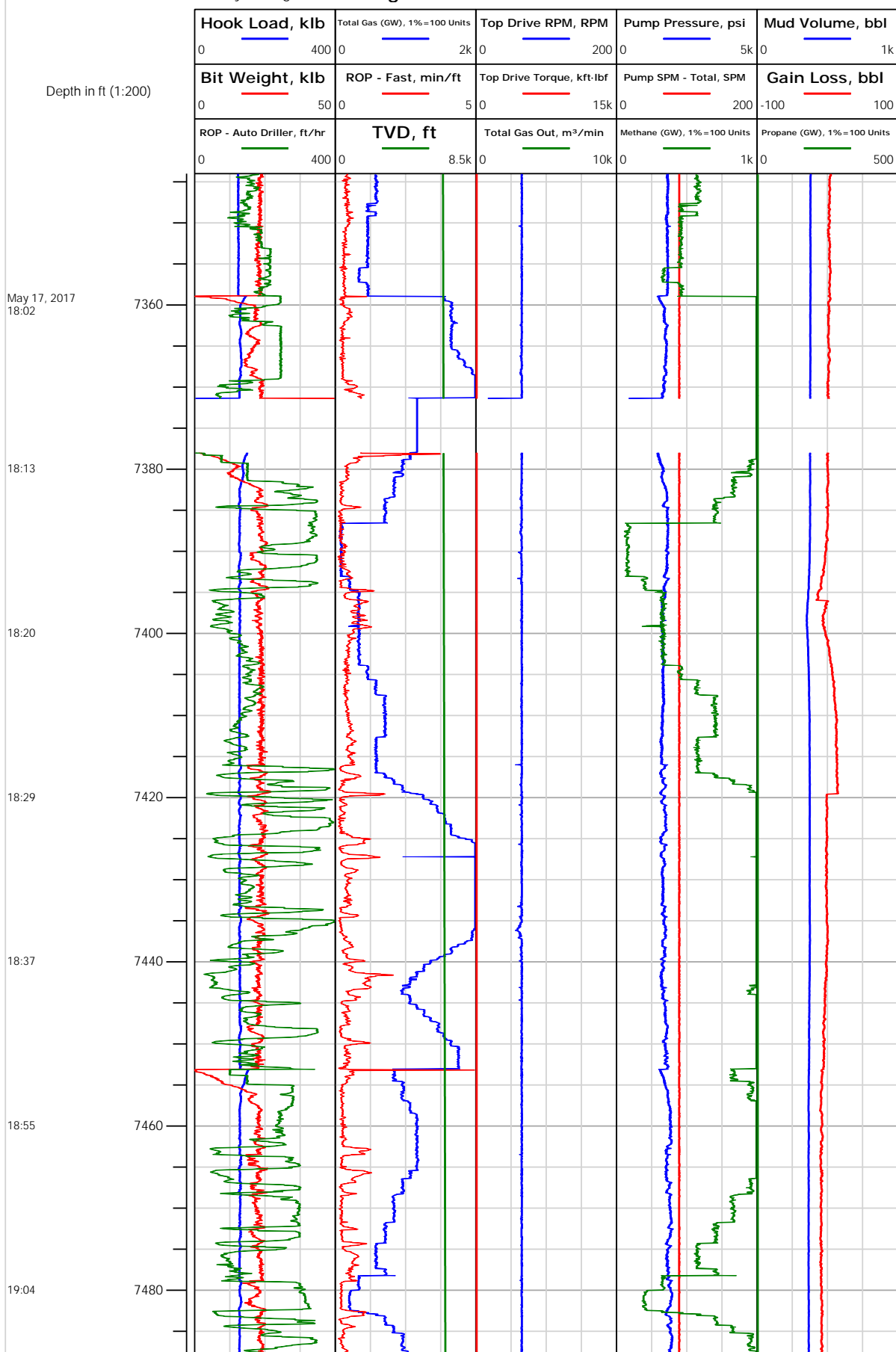
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Contractor: Helmerich & Payne Drlg Co

Well Name: Piceance Federal 29-18W
Rig: 522

Location:

Notes





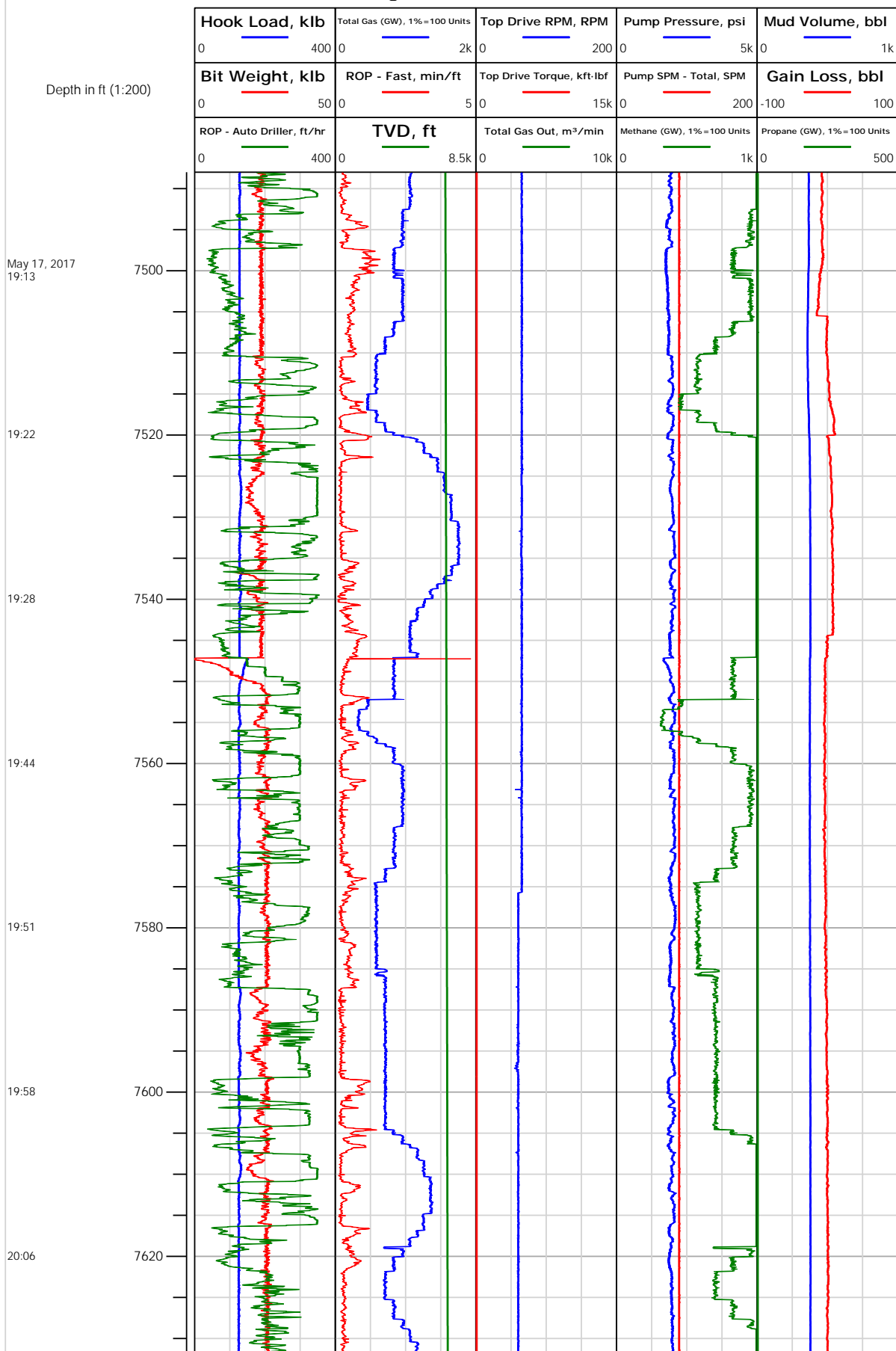
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Contractor: Helmerich & Payne Drlg Co

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Rig: 522

Location:

Notes





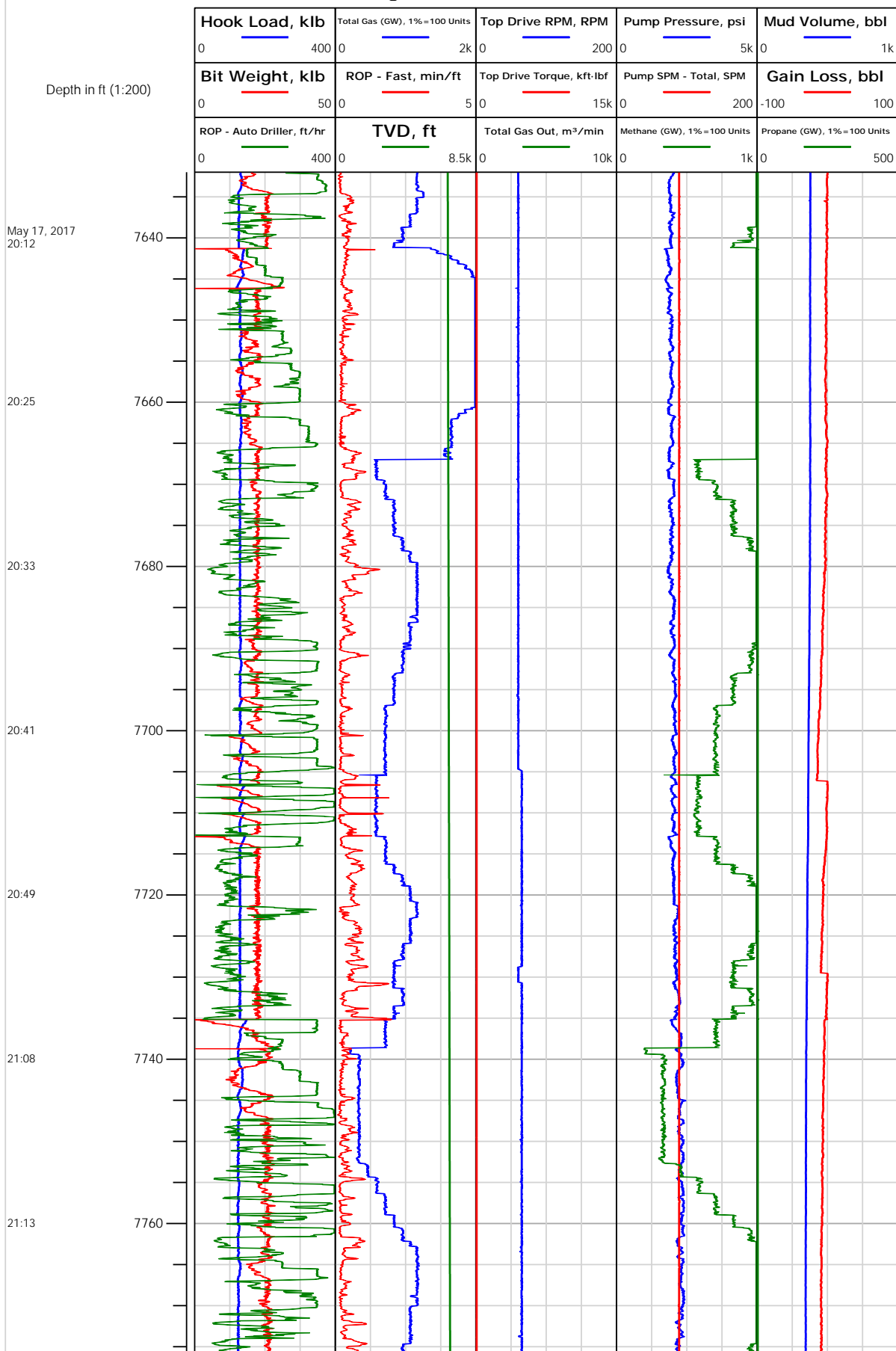
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Contractor: Helmerich & Payne Drlg Co

Well Name: Piceance Federal 29-18W
Rig: 522

Location:

Notes





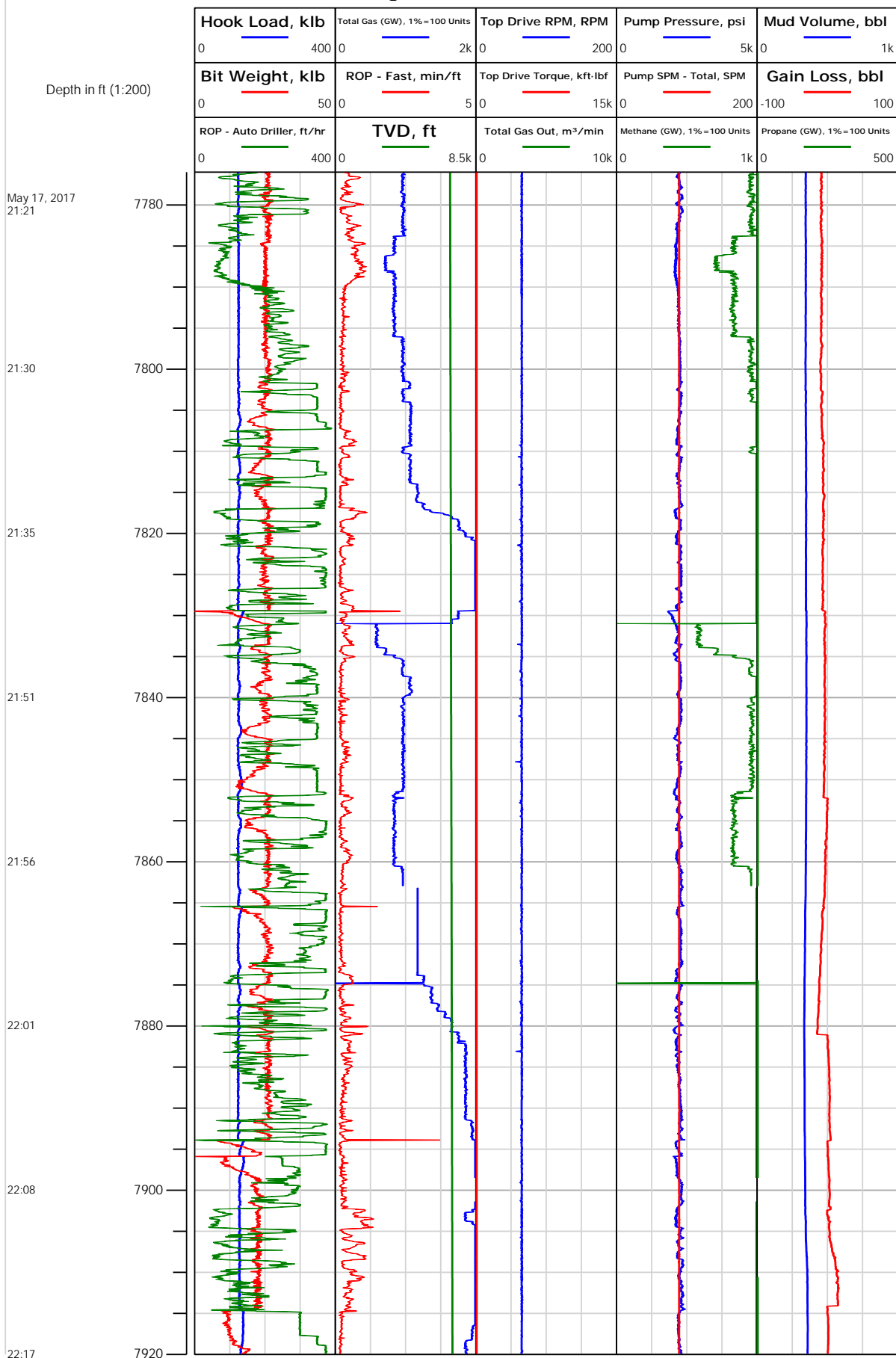
Electronic Drilling Recorder

Operator: Laramie Energy
Contractor: Helmerich & Payne Drlg Co

Well Name: Piceance Federal 29-18W
Rig: 522

Location:

Notes



7876.00: Deviation Survey
7876.00 ft, Deviation 3.3
deg, Direction 192.4 deg



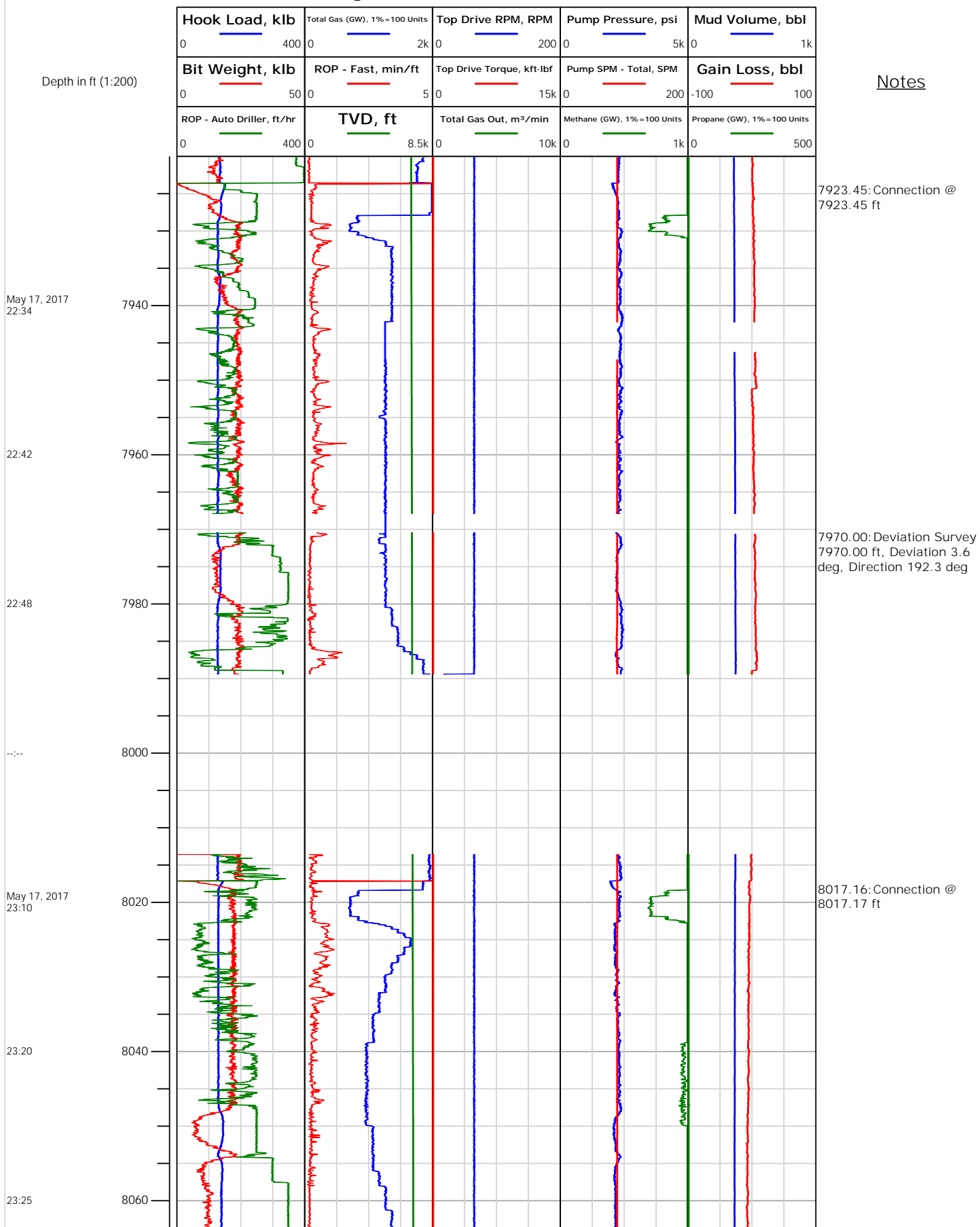
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Contractor: Helmerich & Payne Drlg Co

Well Name: Piceance Federal 29-18W
Rig: 522

Location:

Notes





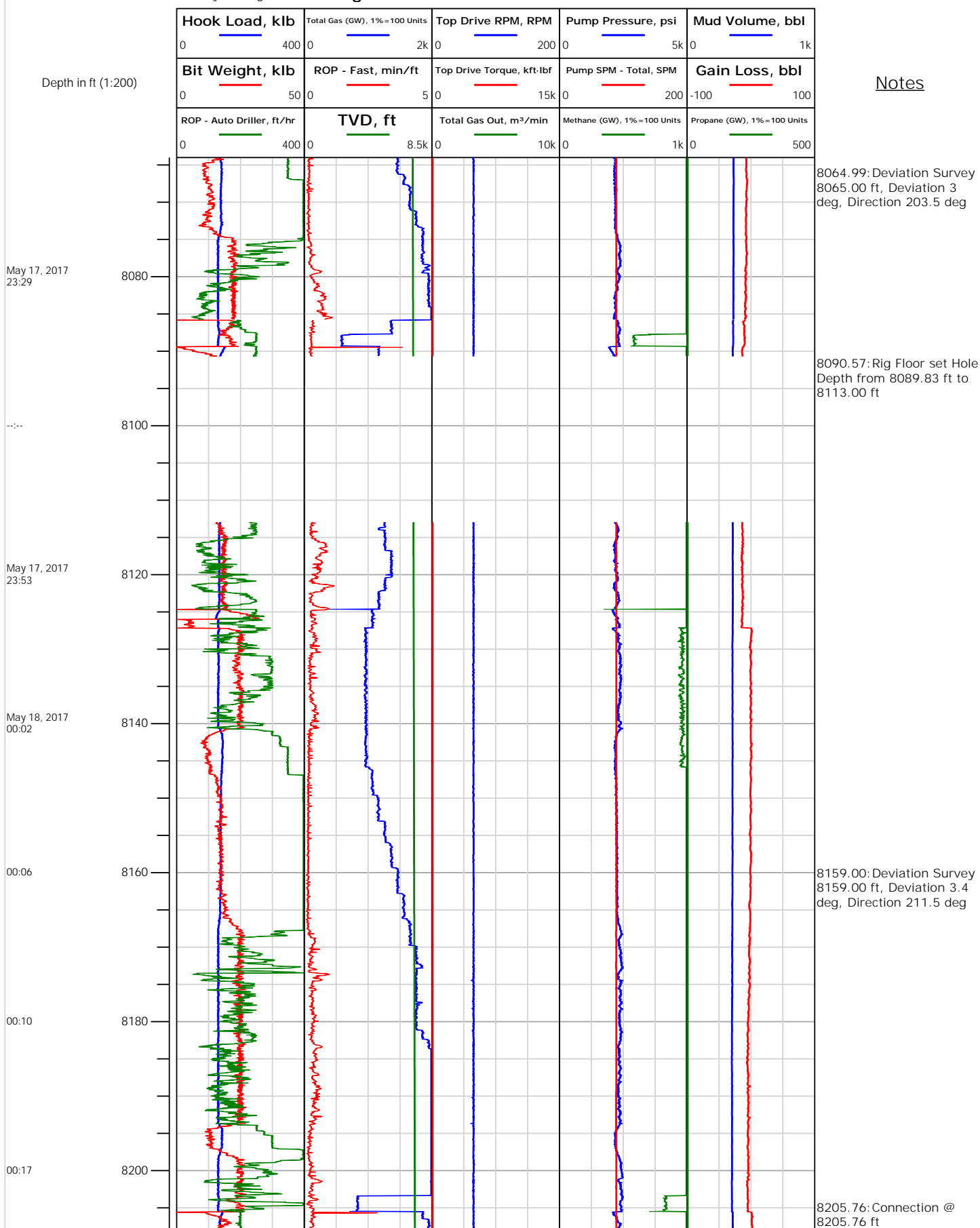
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Contractor: Helmerich & Payne Drlg Co

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Rig: 522

Location:

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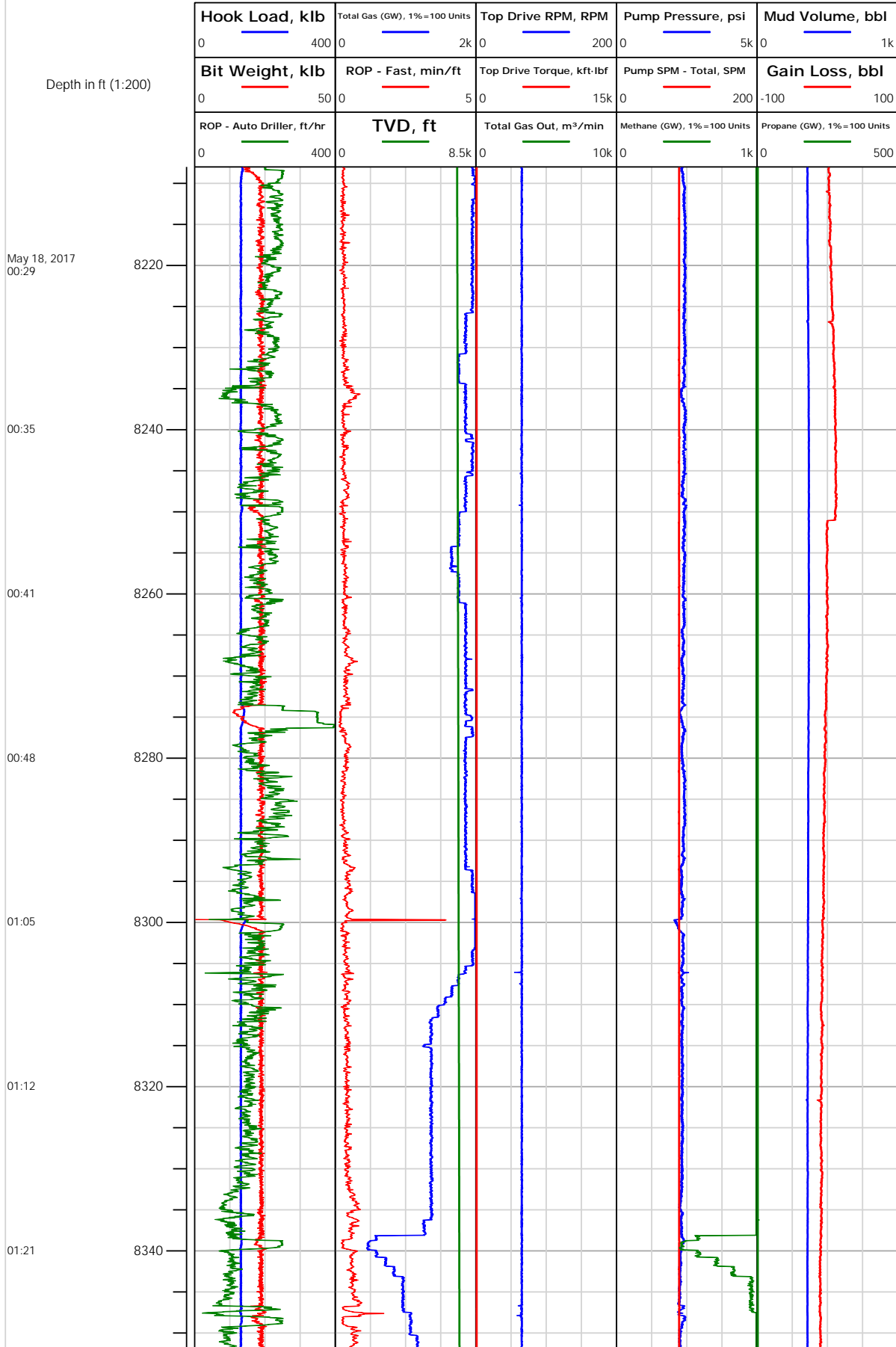
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Contractor: Helmerich & Payne Drlg Co

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Rig: 522

Location:

Notes





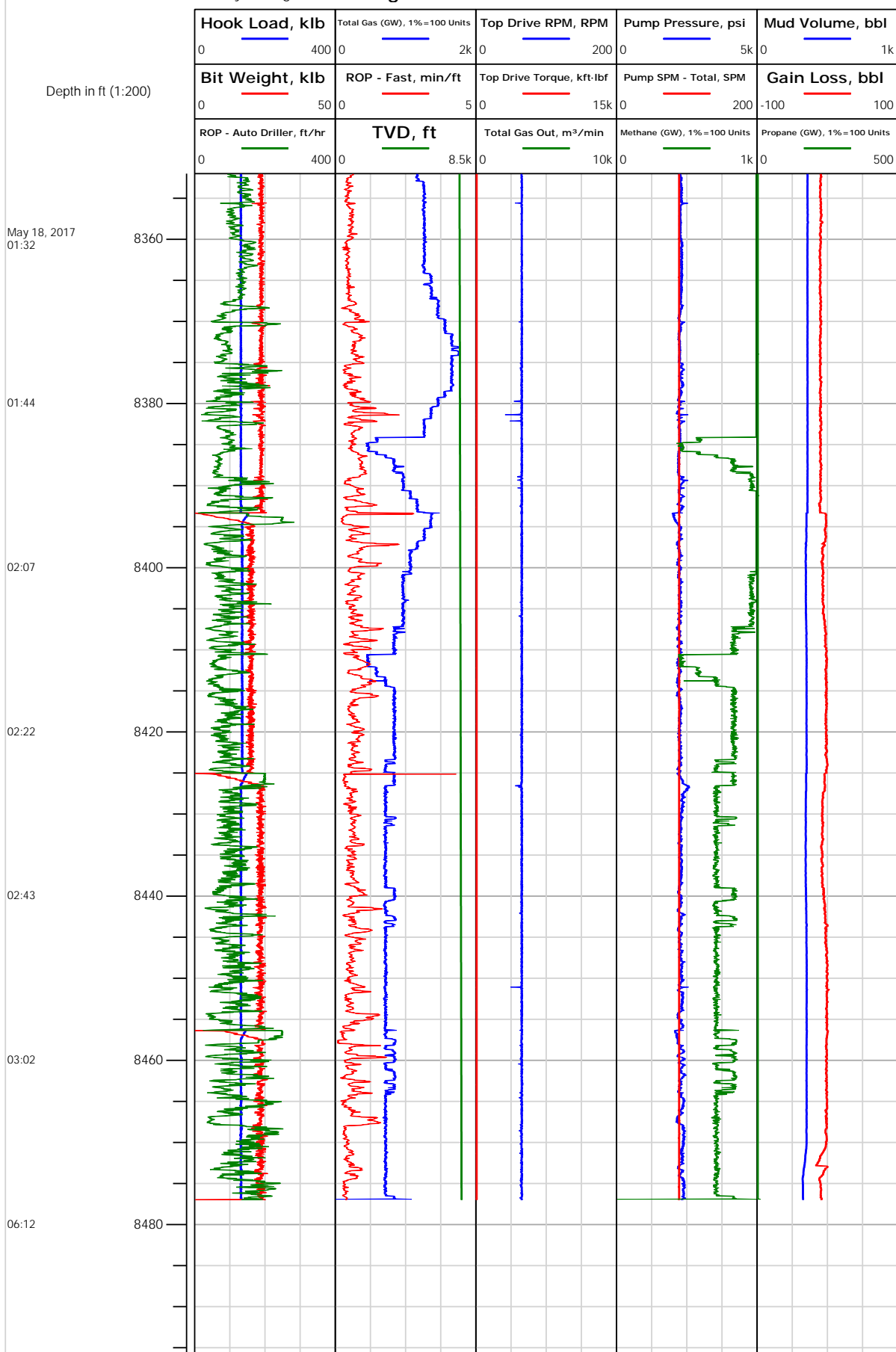
Electronic Drilling Recorder

Operator: Laramie Energy
Contractor: Helmerich & Payne Drlg Co

Well Name: Piceance Federal 29-18W
Rig: 522

Location:

Notes





Electronic Drilling Recorder

Operator: Laramie Energy
Contractor: Helmerich & Payne Drlg Co

Well Name: Piceance Federal 29-18W
Rig: 522

Location:

Notes

Depth in ft (1:200)

8500

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	Pump SPM - Total, SPM	Gain Loss, bbl
0 50	0 5	0 15k	0 200	-100 100
ROP - Auto Driller, ft/hr	TVD, ft	Total Gas Out, m ³ /min	Methane (GW), 1% = 100 Units	Propane (GW), 1% = 100 Units
0 400	0 8.5k	0 10k	0 1k	0 500