



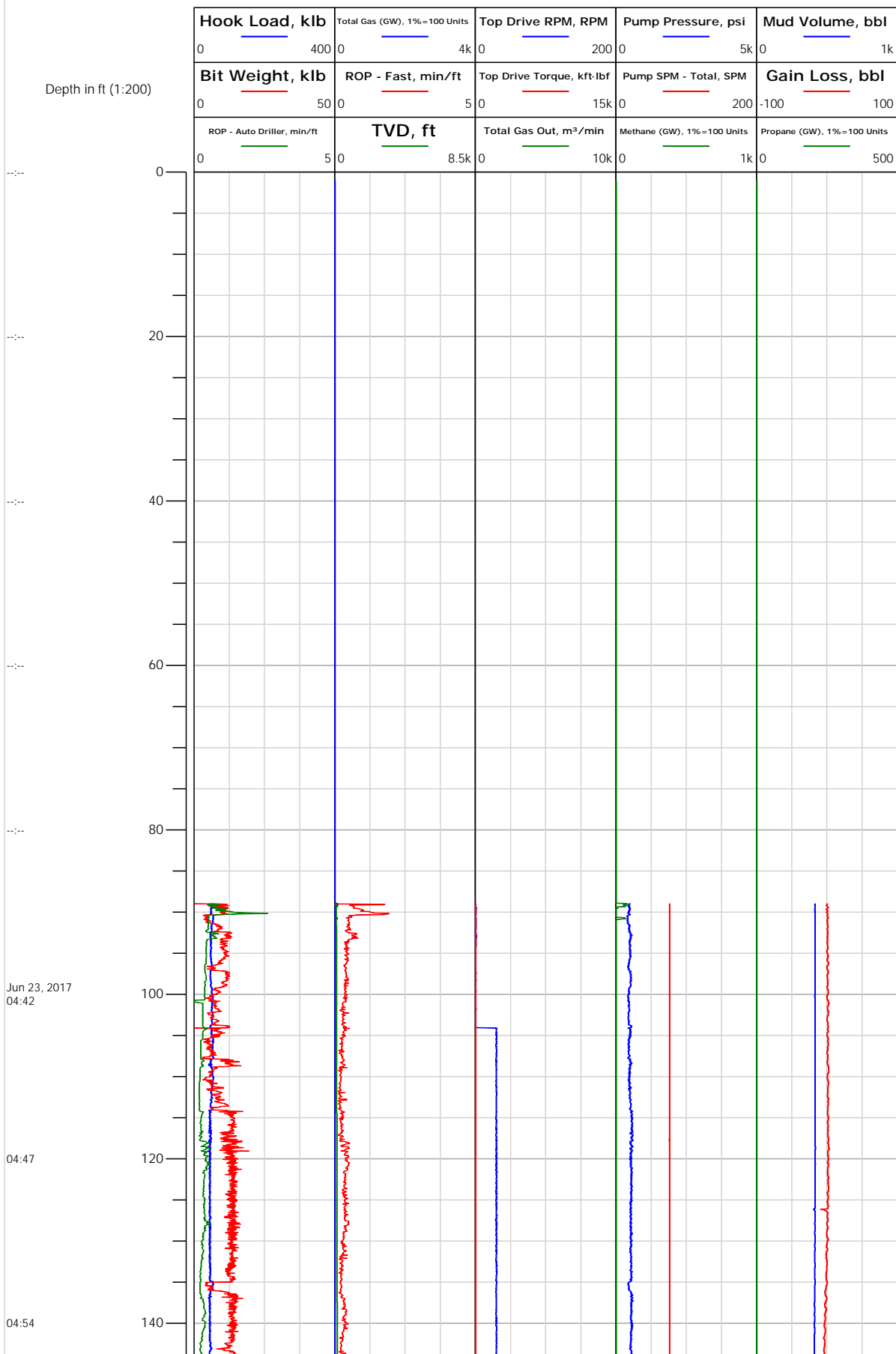
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Operator: Laramie Energy
Contractor: Helmerich & Payne Drlg Co

Well Name: Gunderson 20-05W
Rig: 522

Location:

Notes





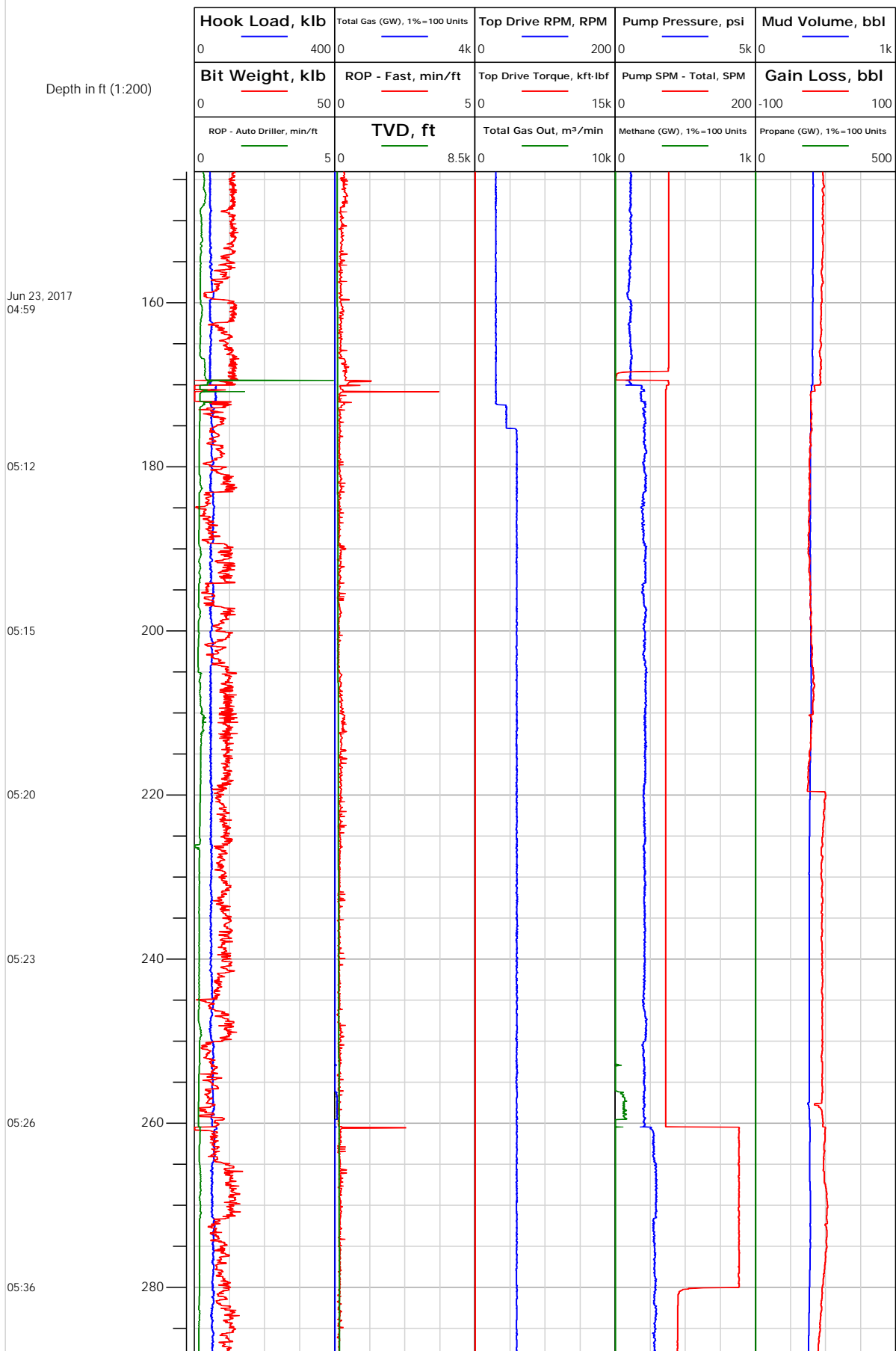
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Operator: Laramie Energy
Contractor: Helmerich & Payne Drlg Co

Well Name: Gunderson 20-05W
Rig: 522

Location:

Notes





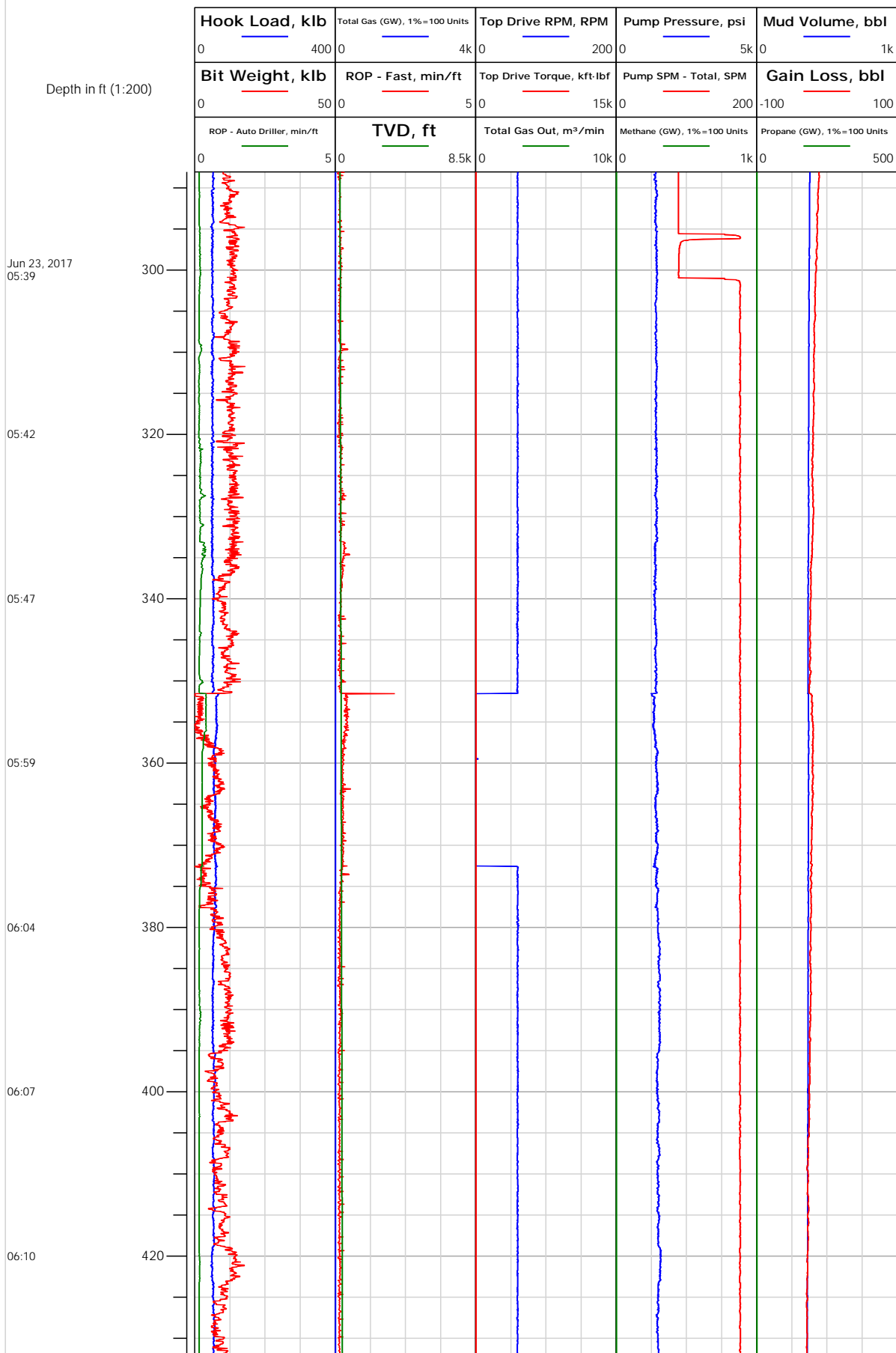
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Operator: Laramie Energy
Contractor: Helmerich & Payne Drlg Co

Well Name: Gunderson 20-05W
Rig: 522

Location:

Notes





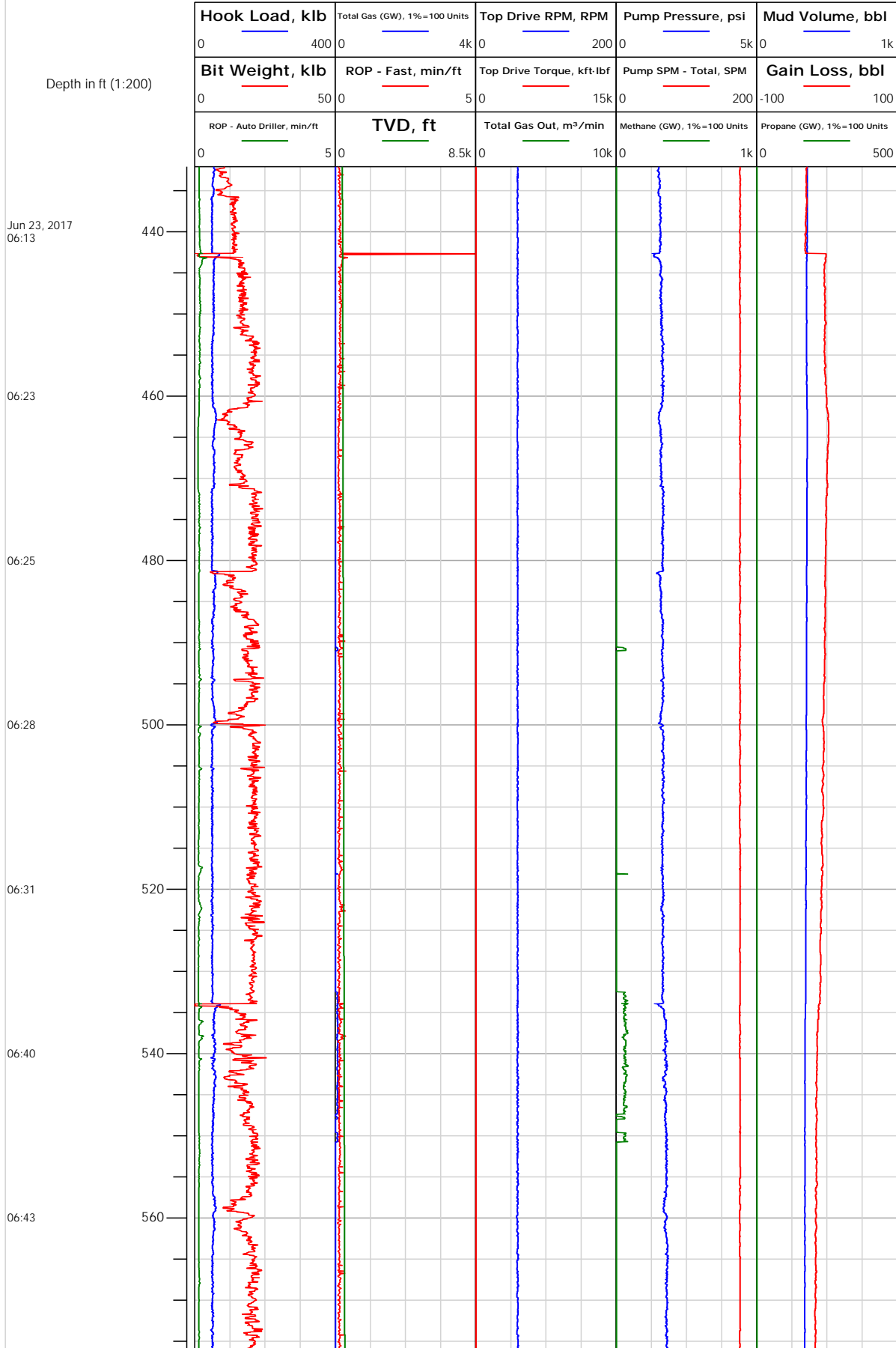
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Operator: Laramie Energy
Contractor: Helmerich & Payne Drlg Co

Well Name: Gunderson 20-05W
Rig: 522

Location:

Notes





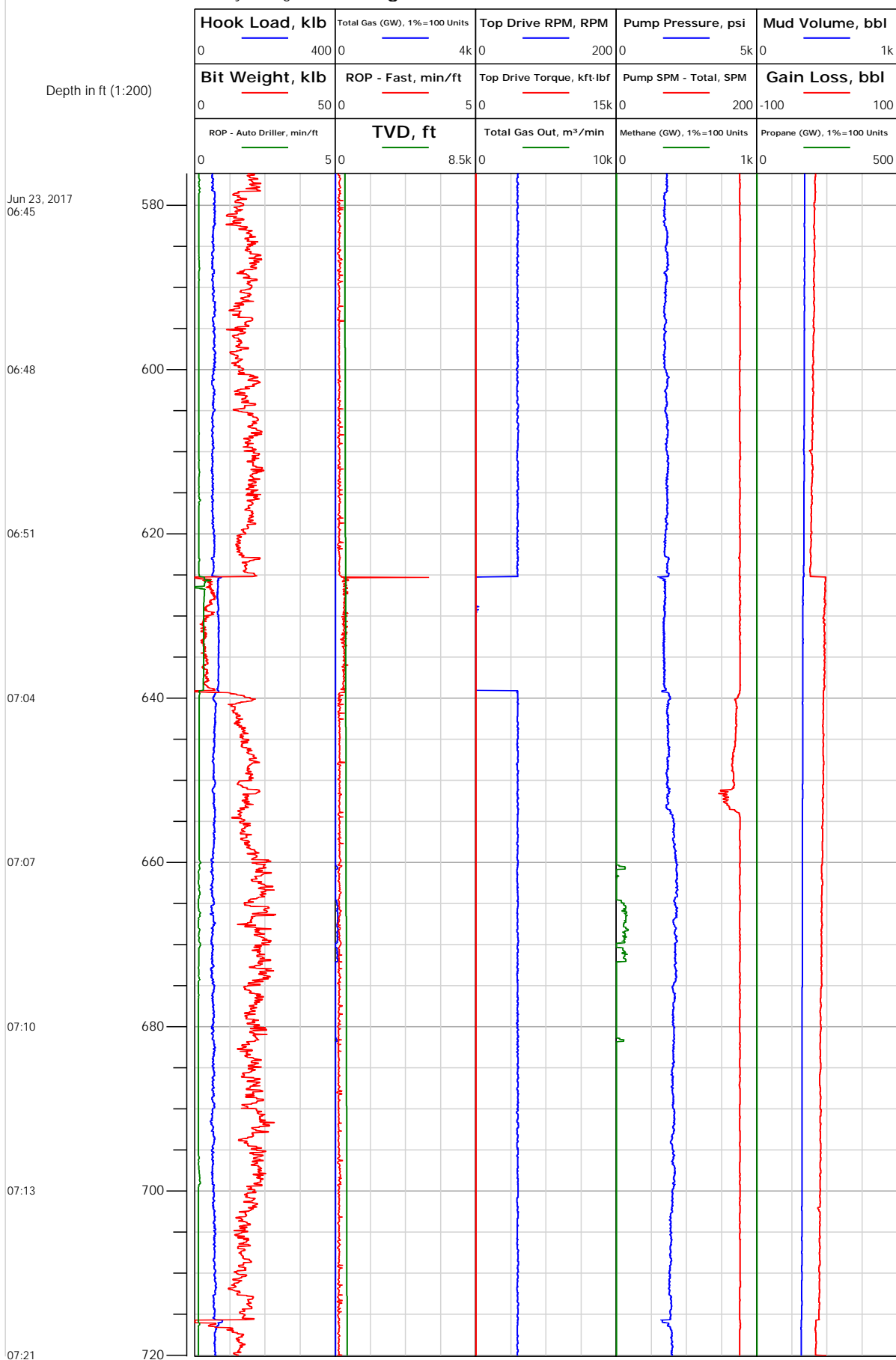
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Operator: Laramie Energy
Contractor: Helmerich & Payne Drlg Co

Well Name: Gunderson 20-05W
Rig: 522

Location:

Notes





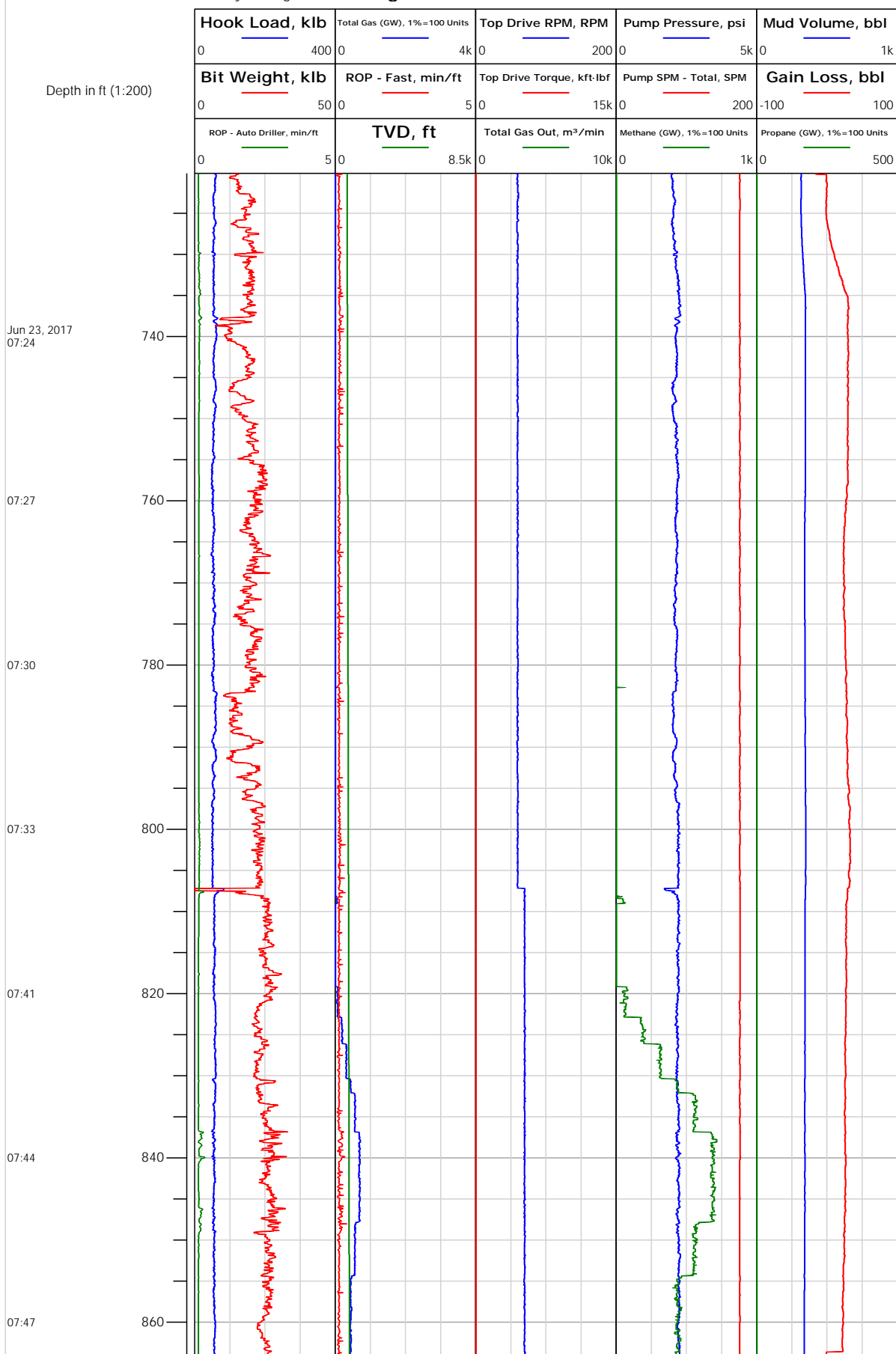
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Contractor: Helmerich & Payne Drlg Co

Well Name: Gunderson 20-05W
Rig: 522

Location:

Notes





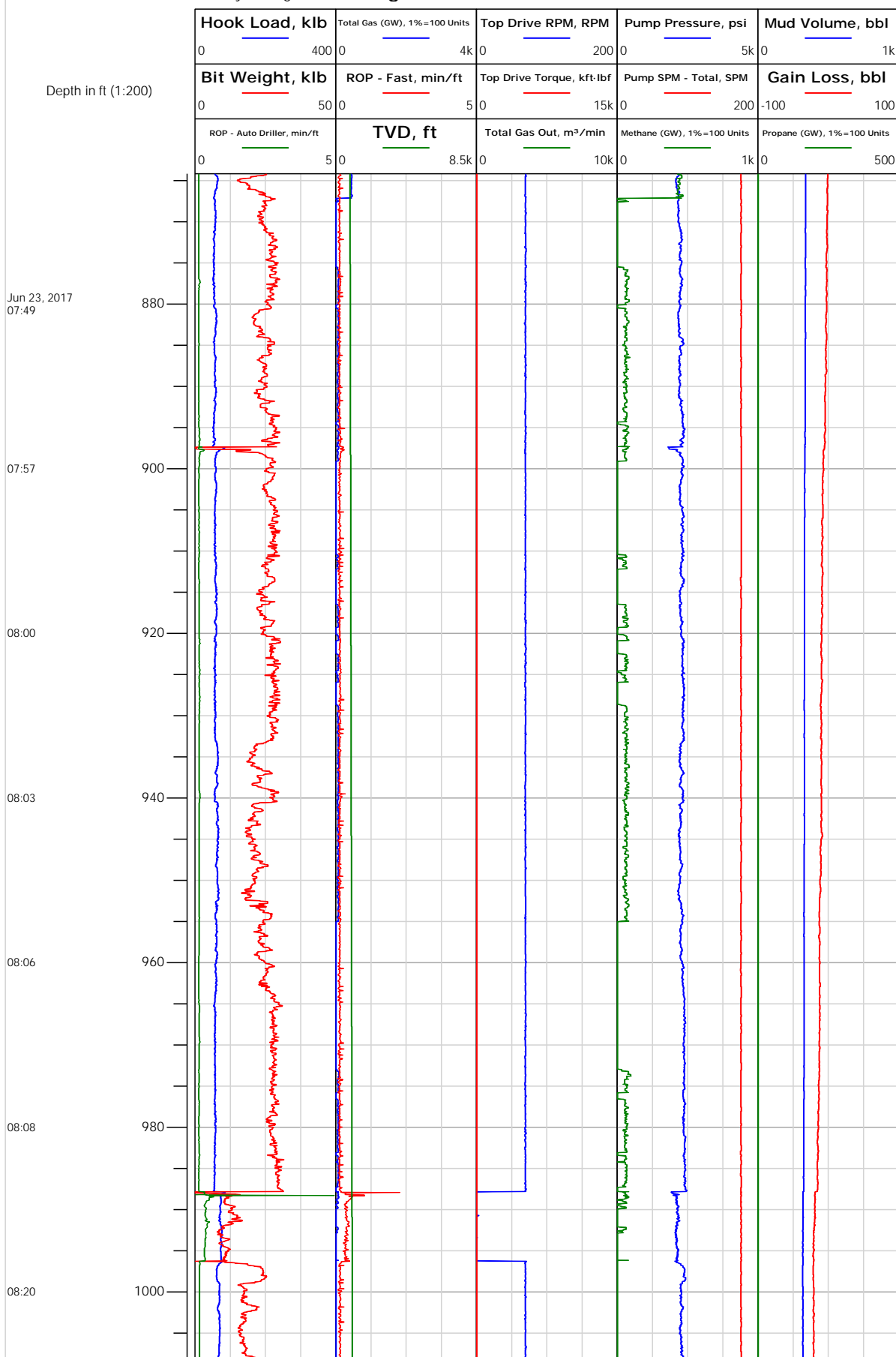
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Contractor: Helmerich & Payne Drlg Co

Well Name: Gunderson 20-05W
Rig: 522

Location:

Notes





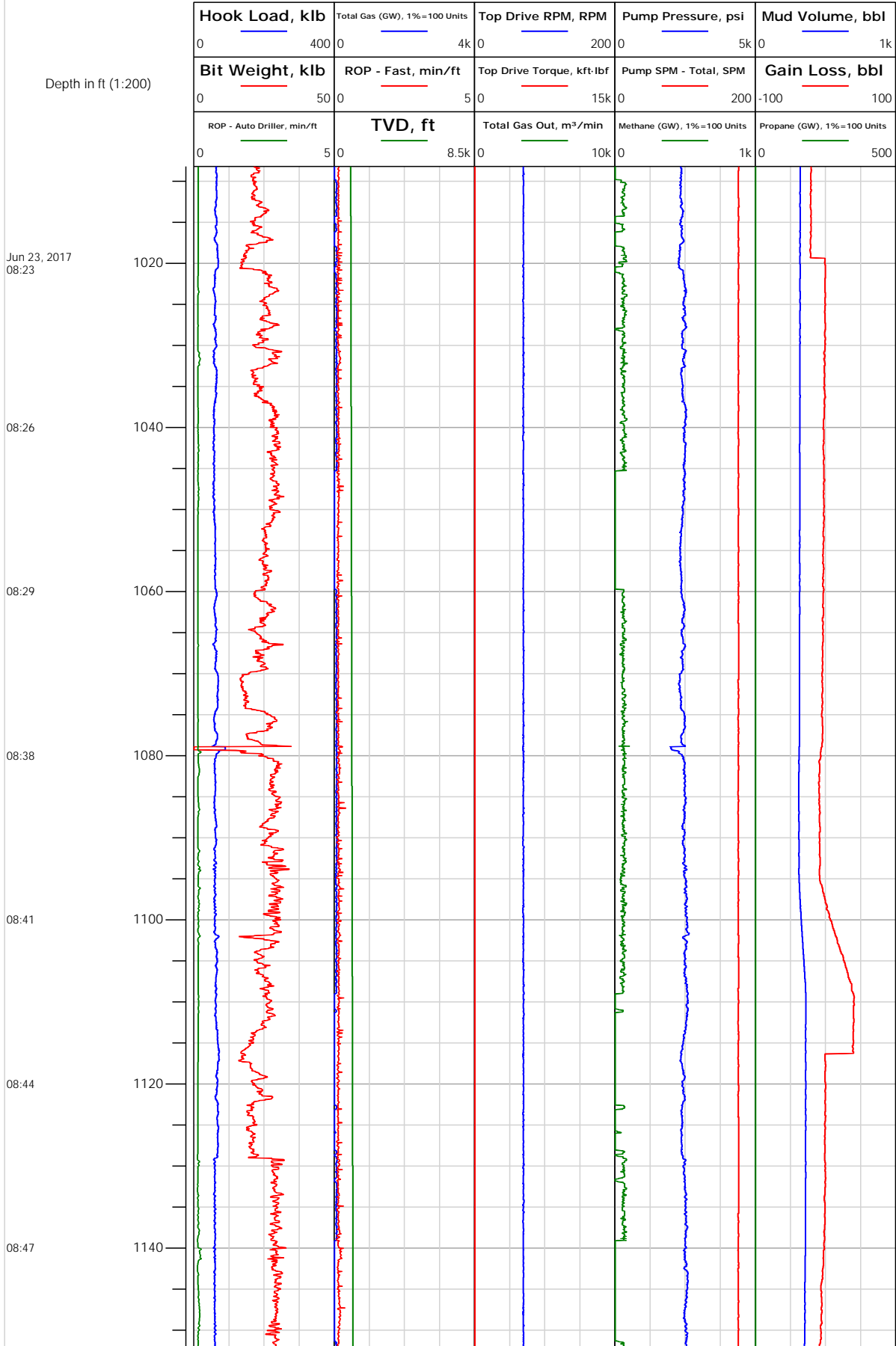
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Contractor: Helmerich & Payne Drlg Co

Well Name: Gunderson 20-05W
Rig: 522

Location:

Notes





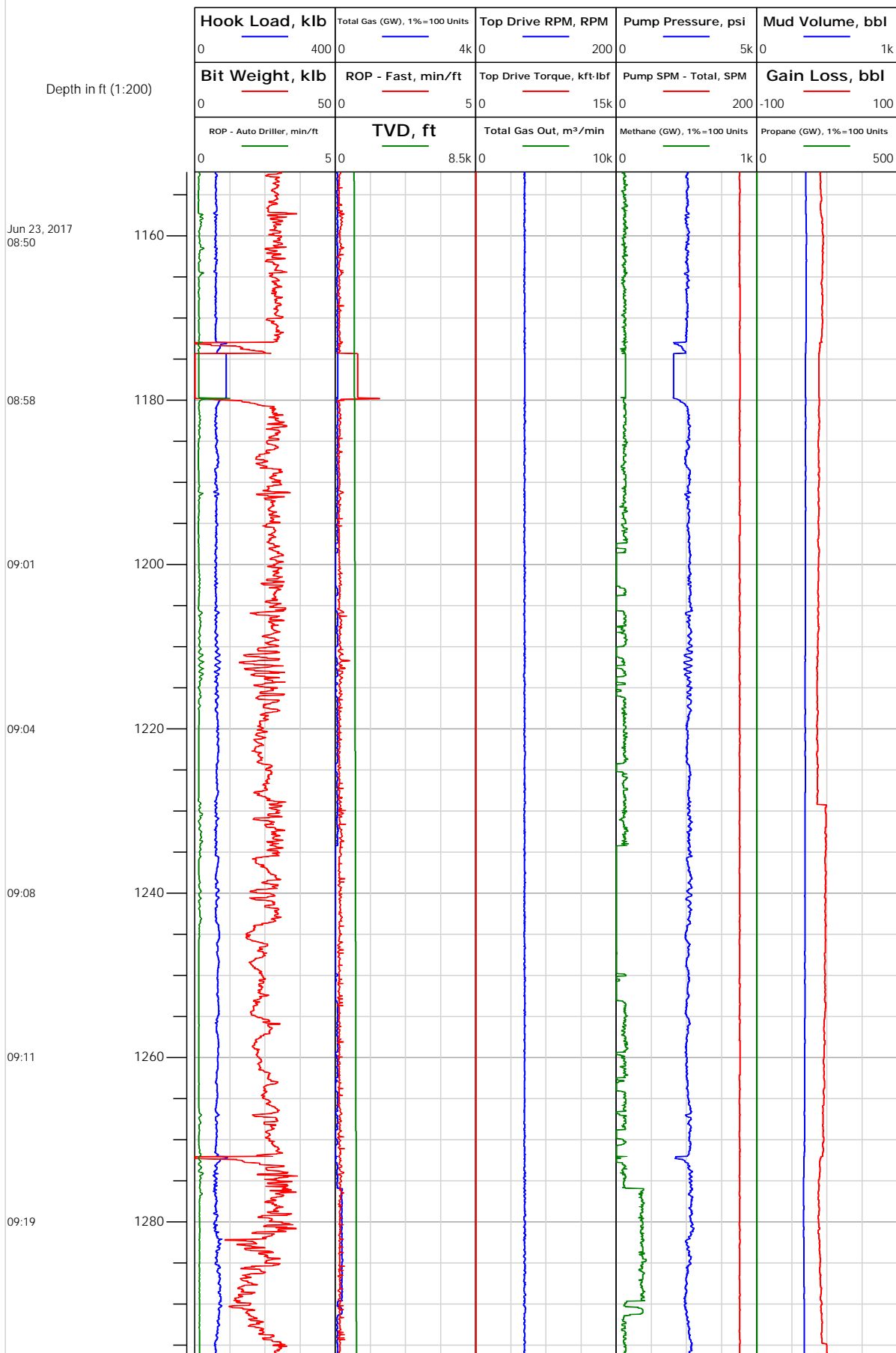
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Contractor: Helmerich & Payne Drlg Co

Well Name: Gunderson 20-05W
Rig: 522

Location:

Notes





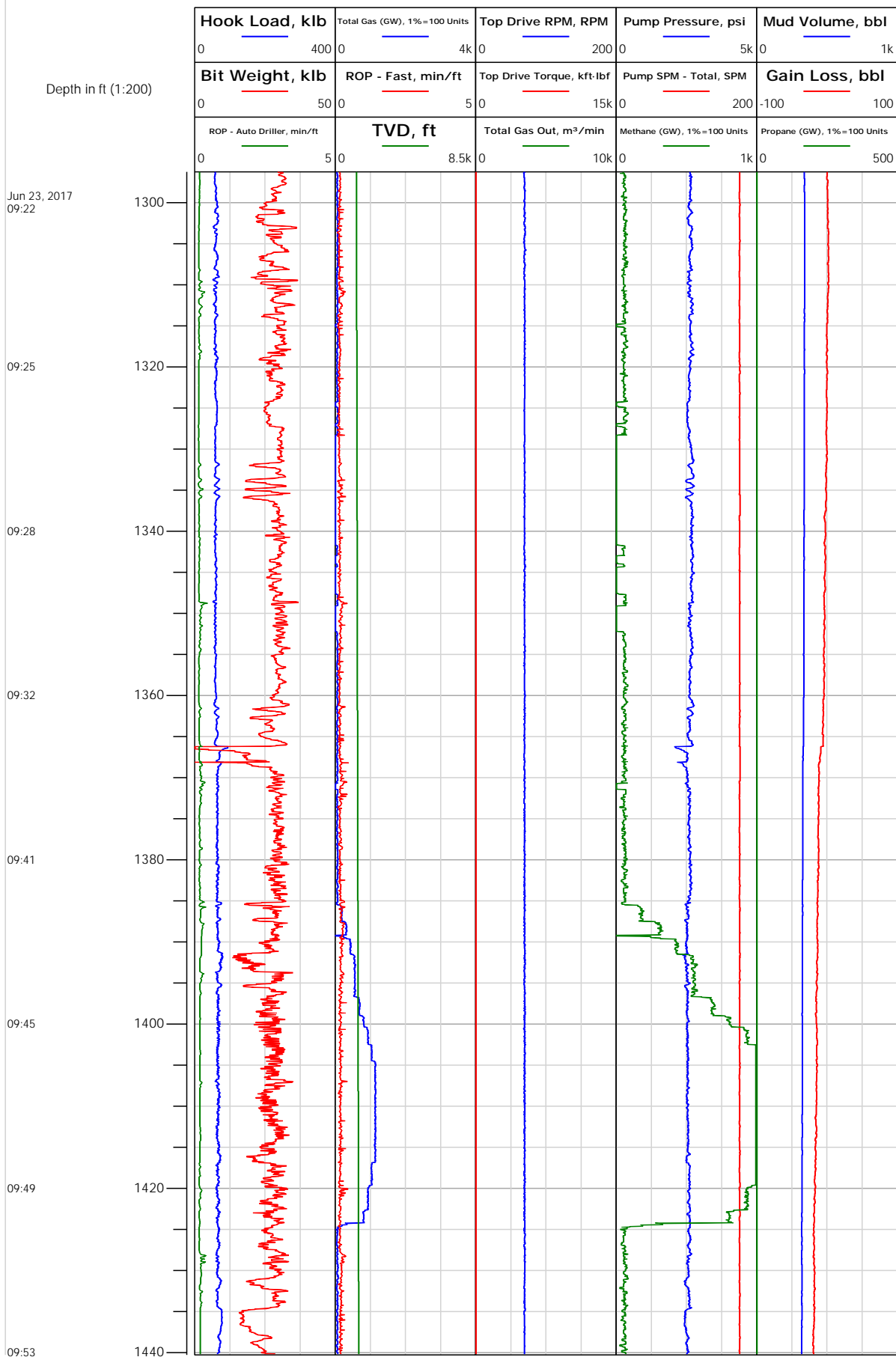
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Contractor: Helmerich & Payne Drlg Co

Well Name: Gunderson 20-05W
Rig: 522

Location:

Notes





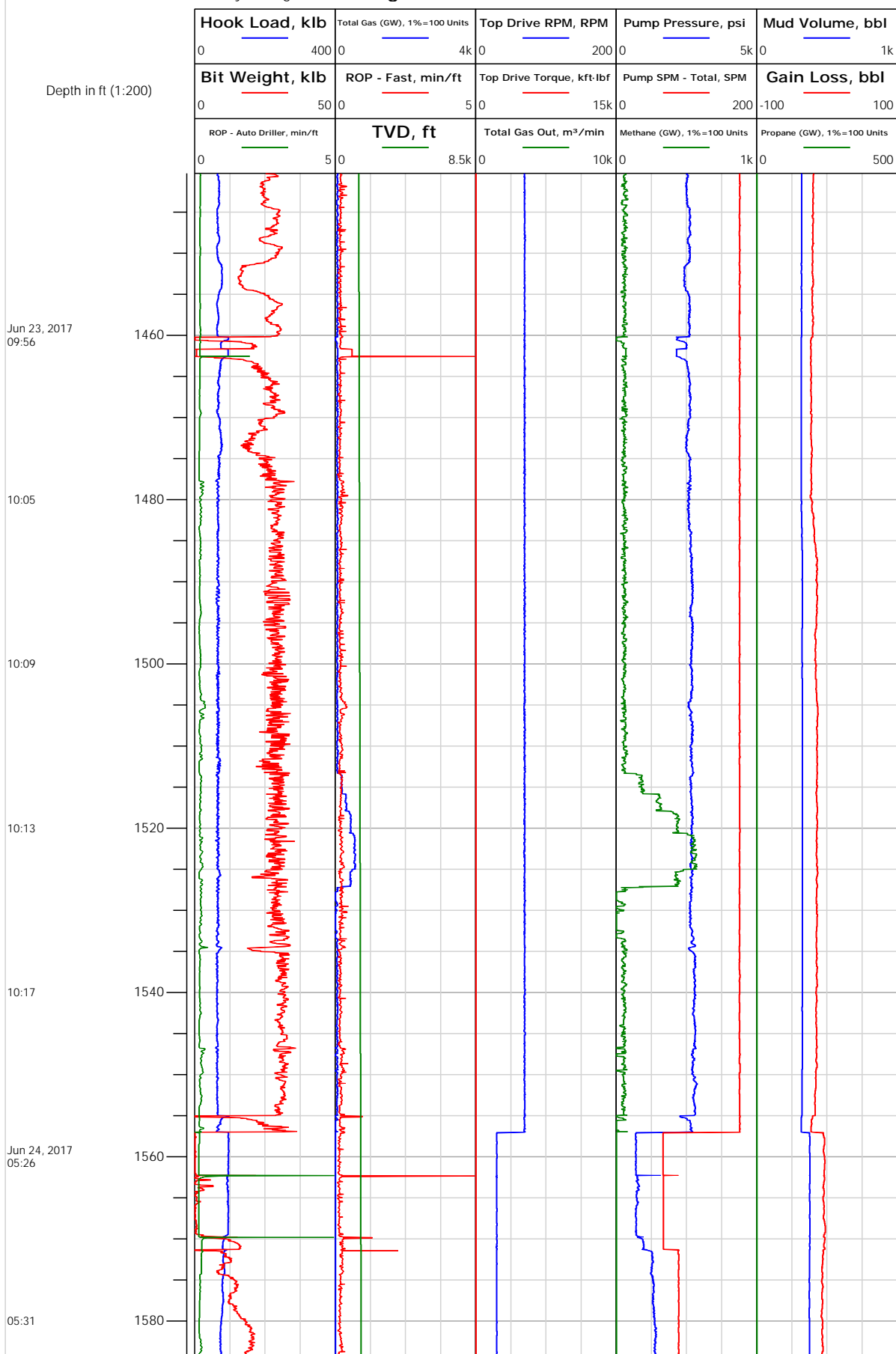
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Contractor: Helmerich & Payne Drlg Co

Well Name: Gunderson 20-05W
Rig: 522

Location:

Notes





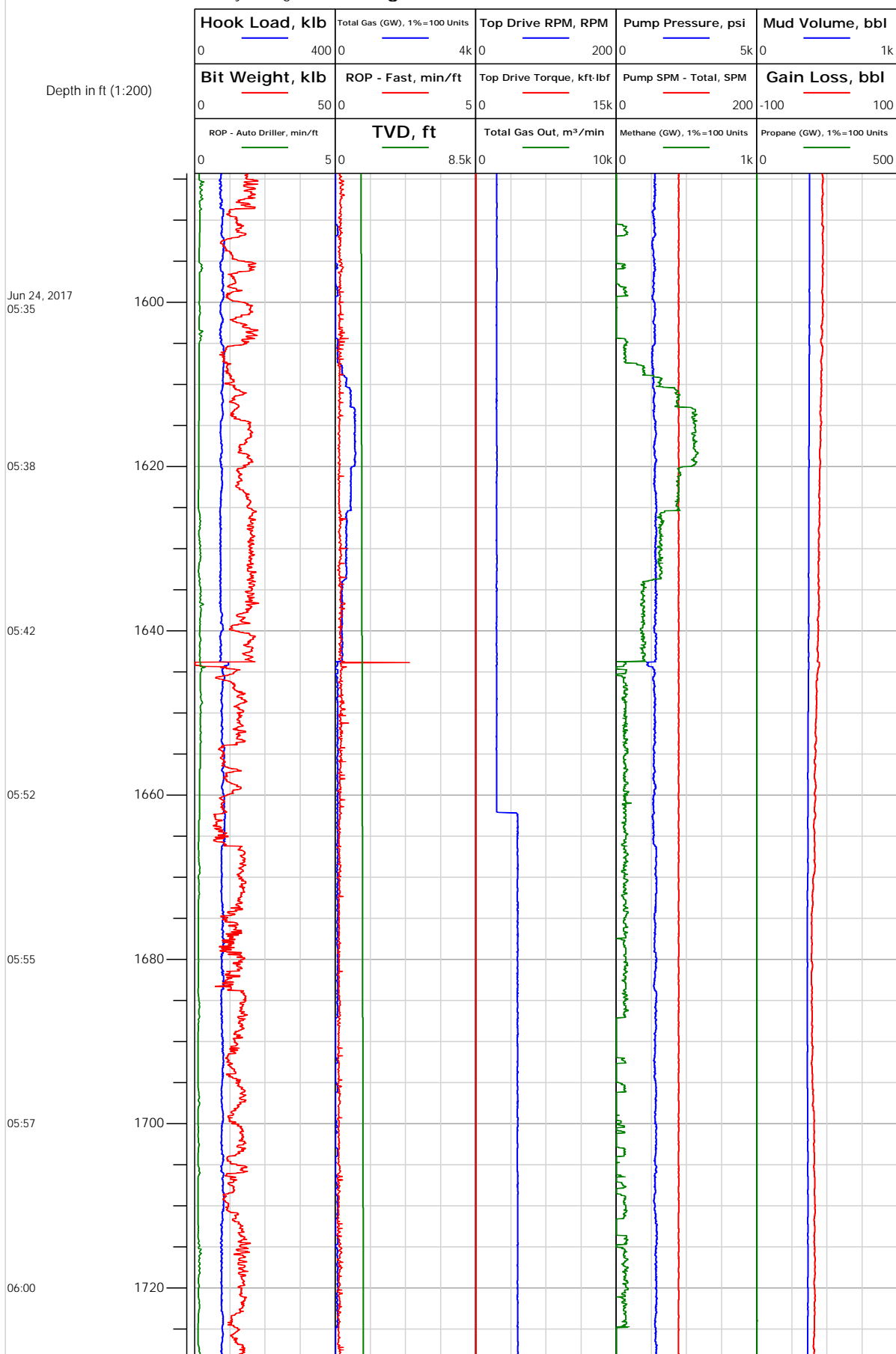
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Contractor: Helmerich & Payne Drlg Co

Well Name: Gunderson 20-05W
Rig: 522

Location:

Notes





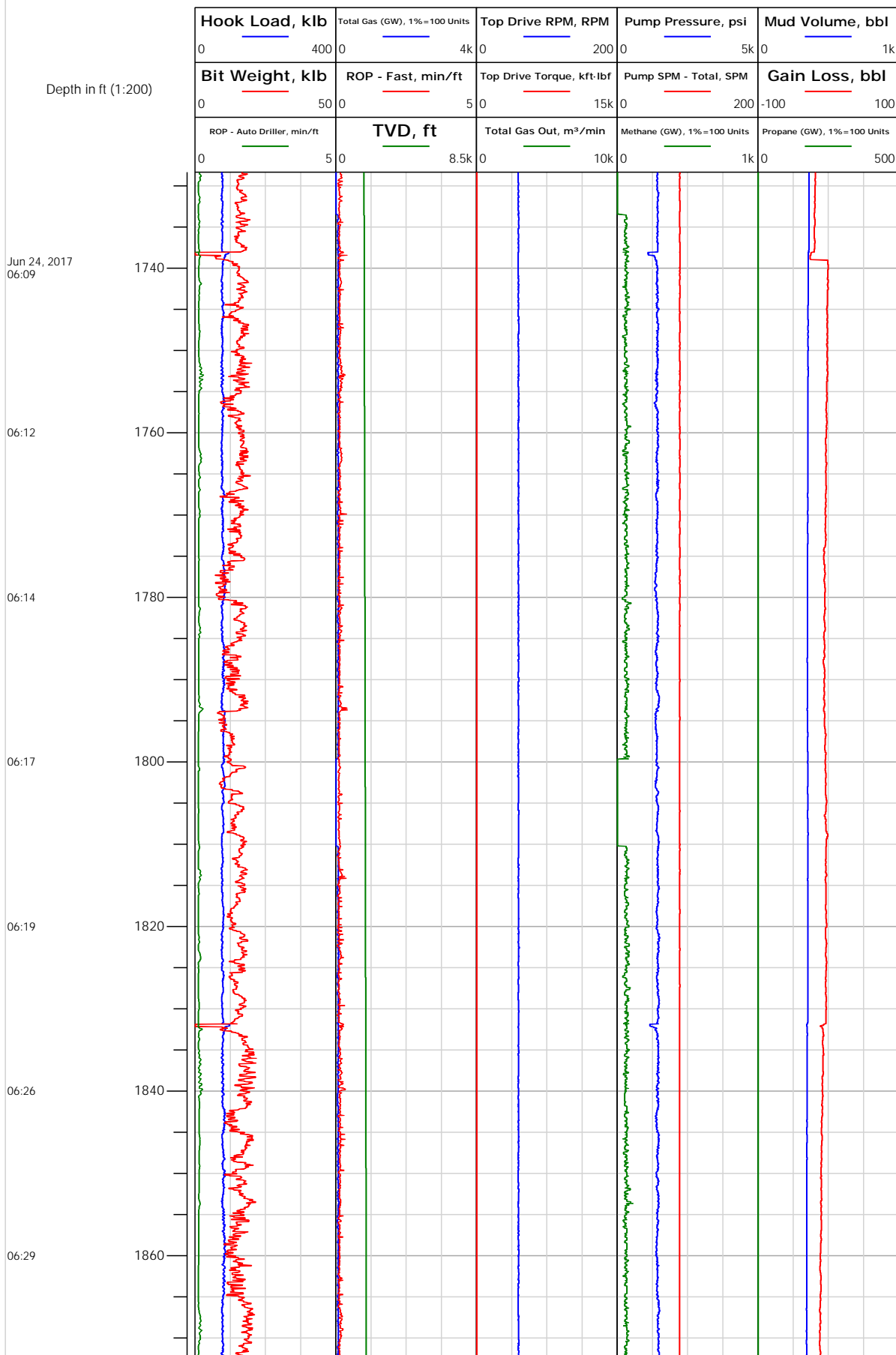
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Contractor: Helmerich & Payne Drlg Co

Well Name: Gunderson 20-05W
Rig: 522

Location:

Notes





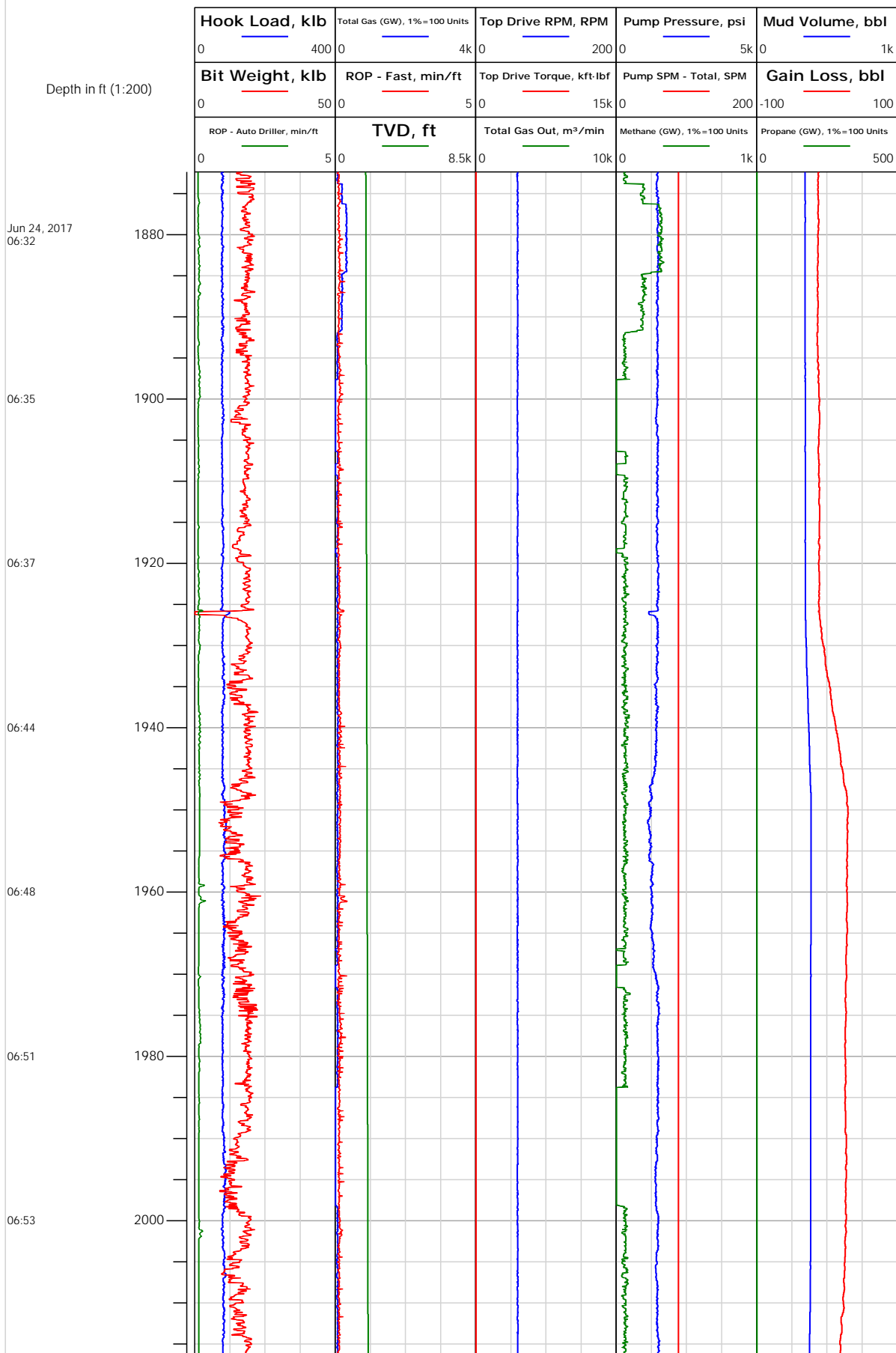
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Contractor: Helmerich & Payne Drlg Co

Well Name: Gunderson 20-05W
Rig: 522

Location:

Notes





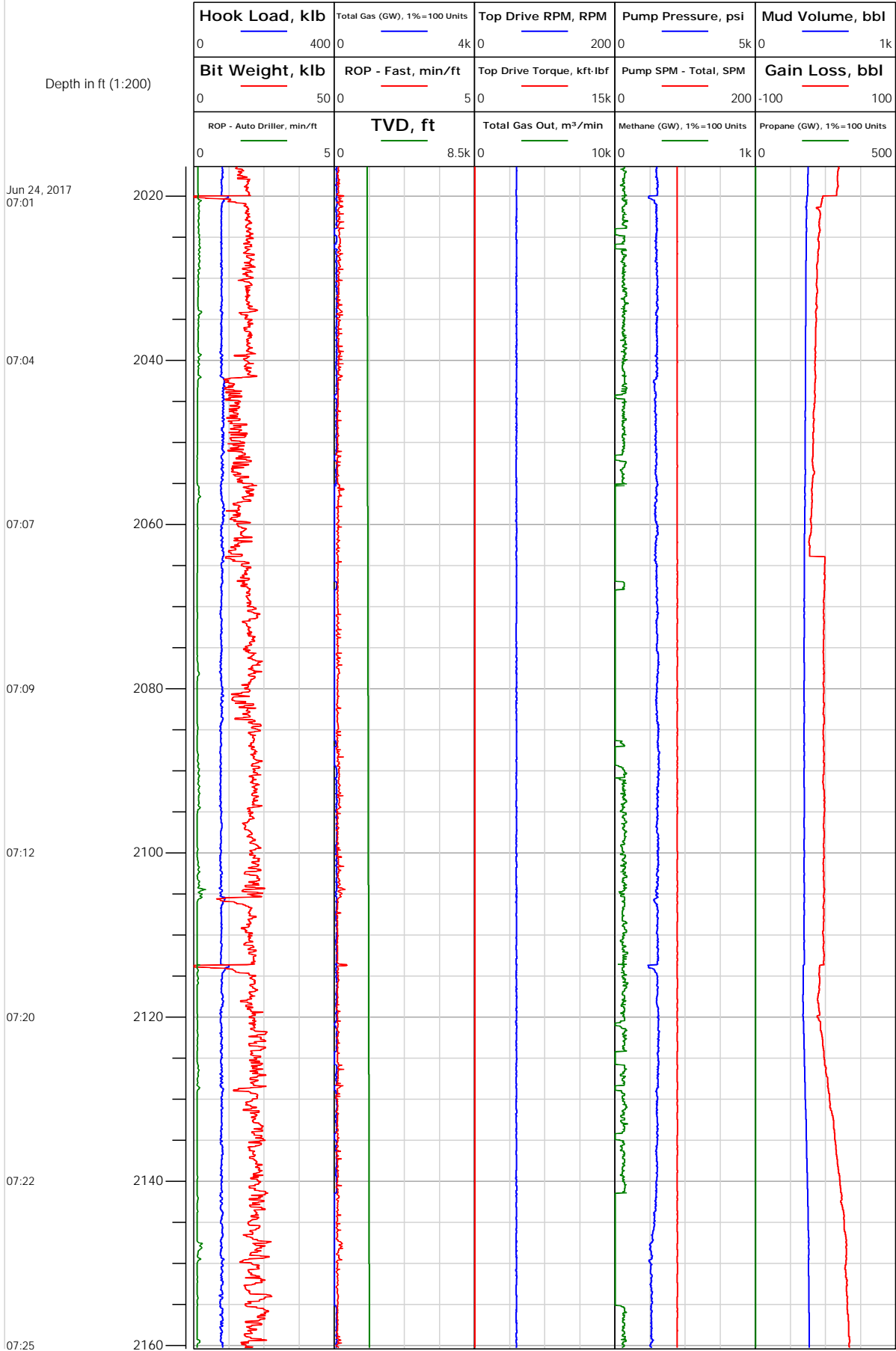
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Contractor: Helmerich & Payne Drlg Co

Well Name: Gunderson 20-05W
Rig: 522

Location:

Notes





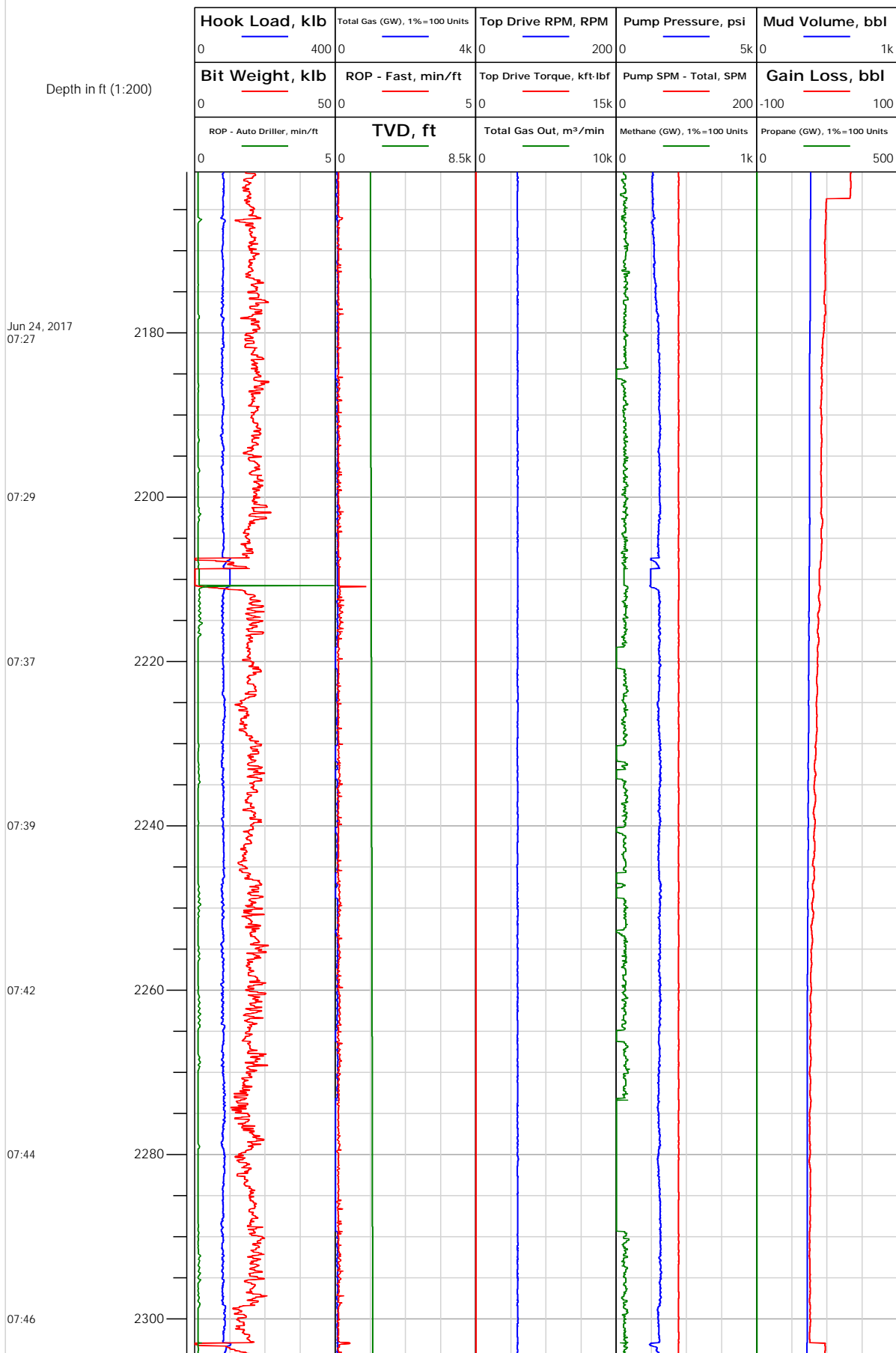
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Contractor: Helmerich & Payne Drlg Co

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Rig: 522

Location:

Notes





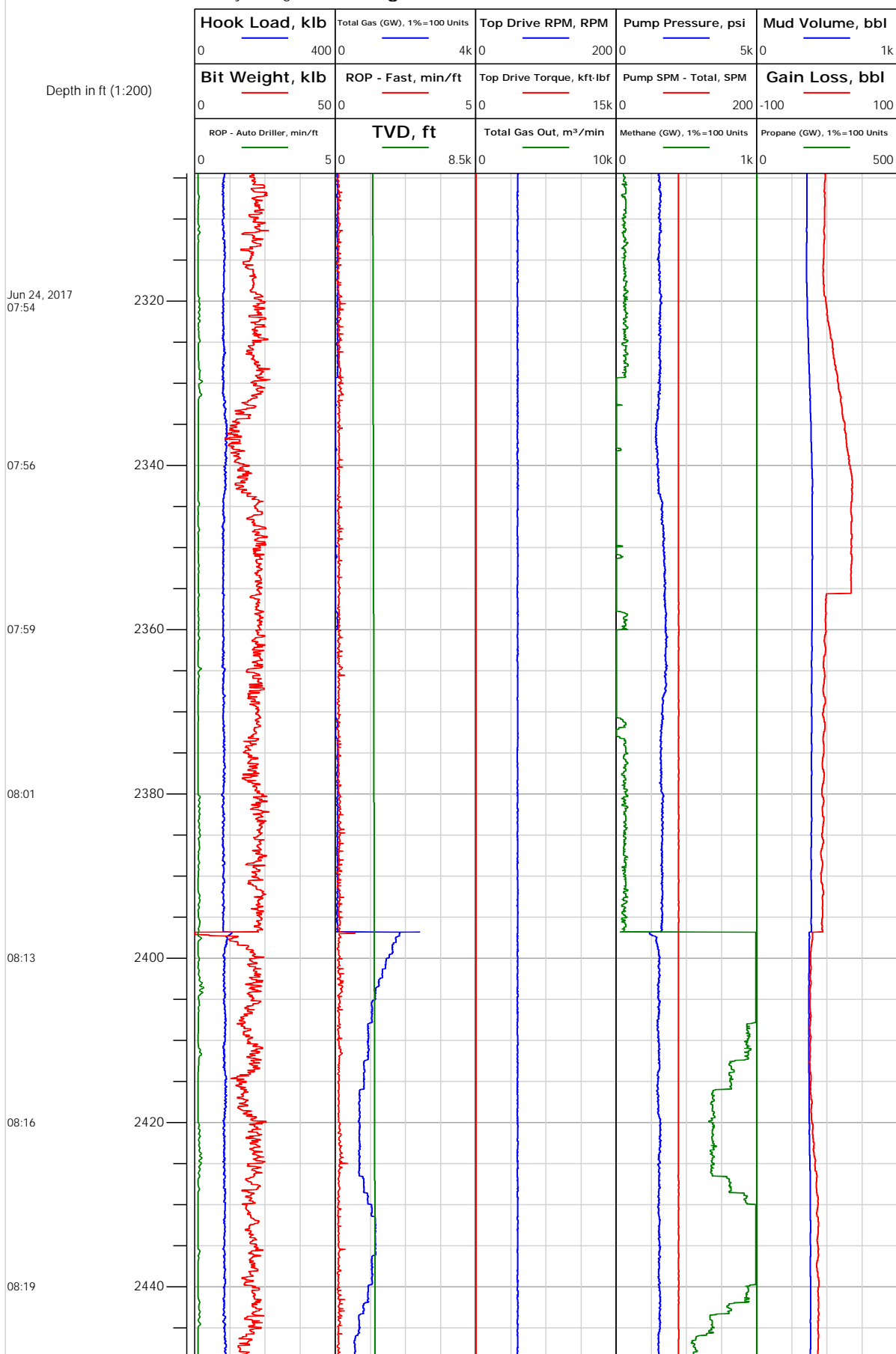
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Contractor: Helmerich & Payne Drlg Co

Well Name: Gunderson 20-05W
Rig: 522

Location:

Notes





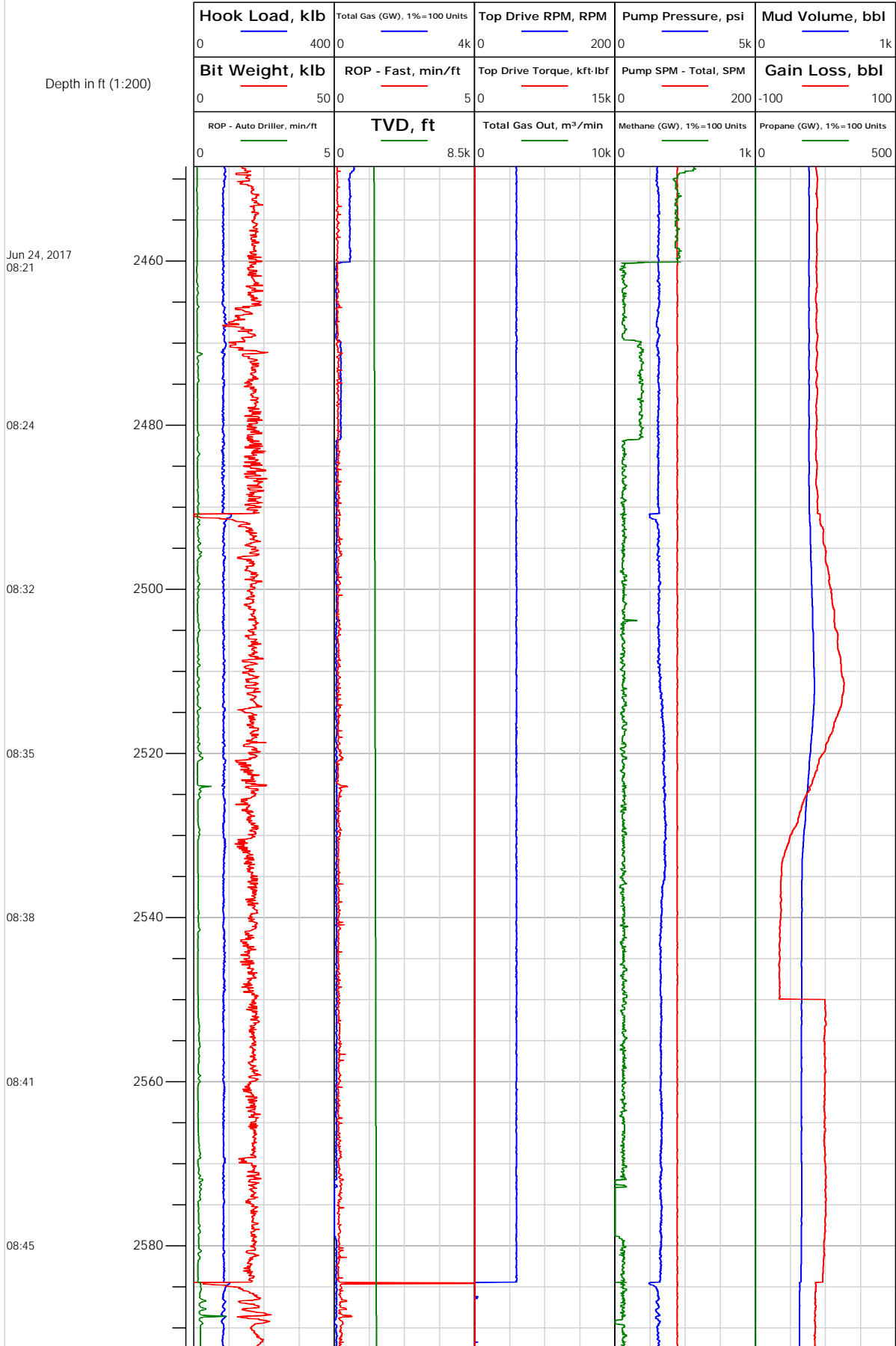
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Contractor: Helmerich & Payne Drlg Co

Well Name: Gunderson 20-05W
Rig: 522

Location:

Notes





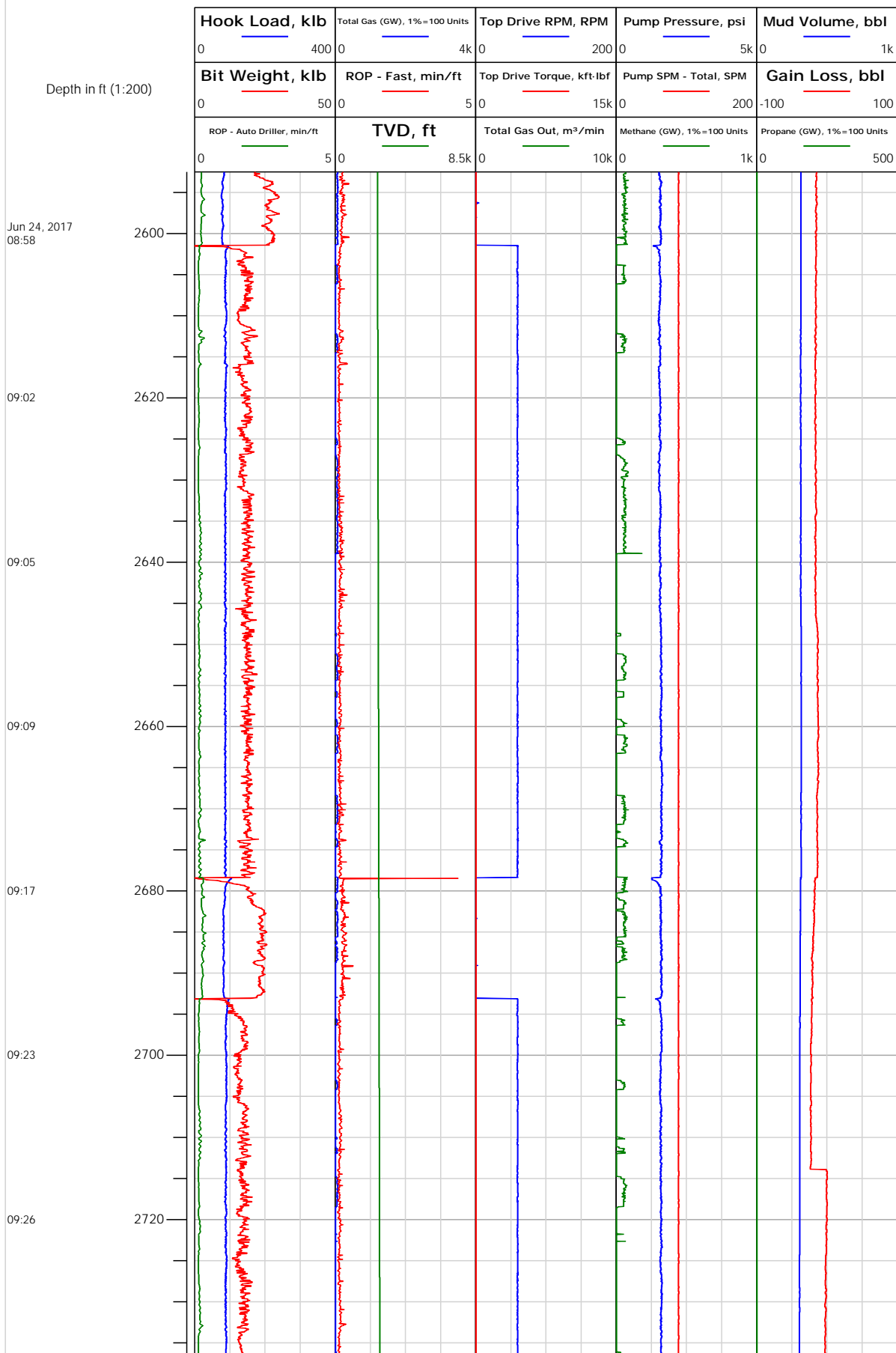
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Contractor: Helmerich & Payne Drlg Co

Well Name: Gunderson 20-05W
Rig: 522

Location:

Notes





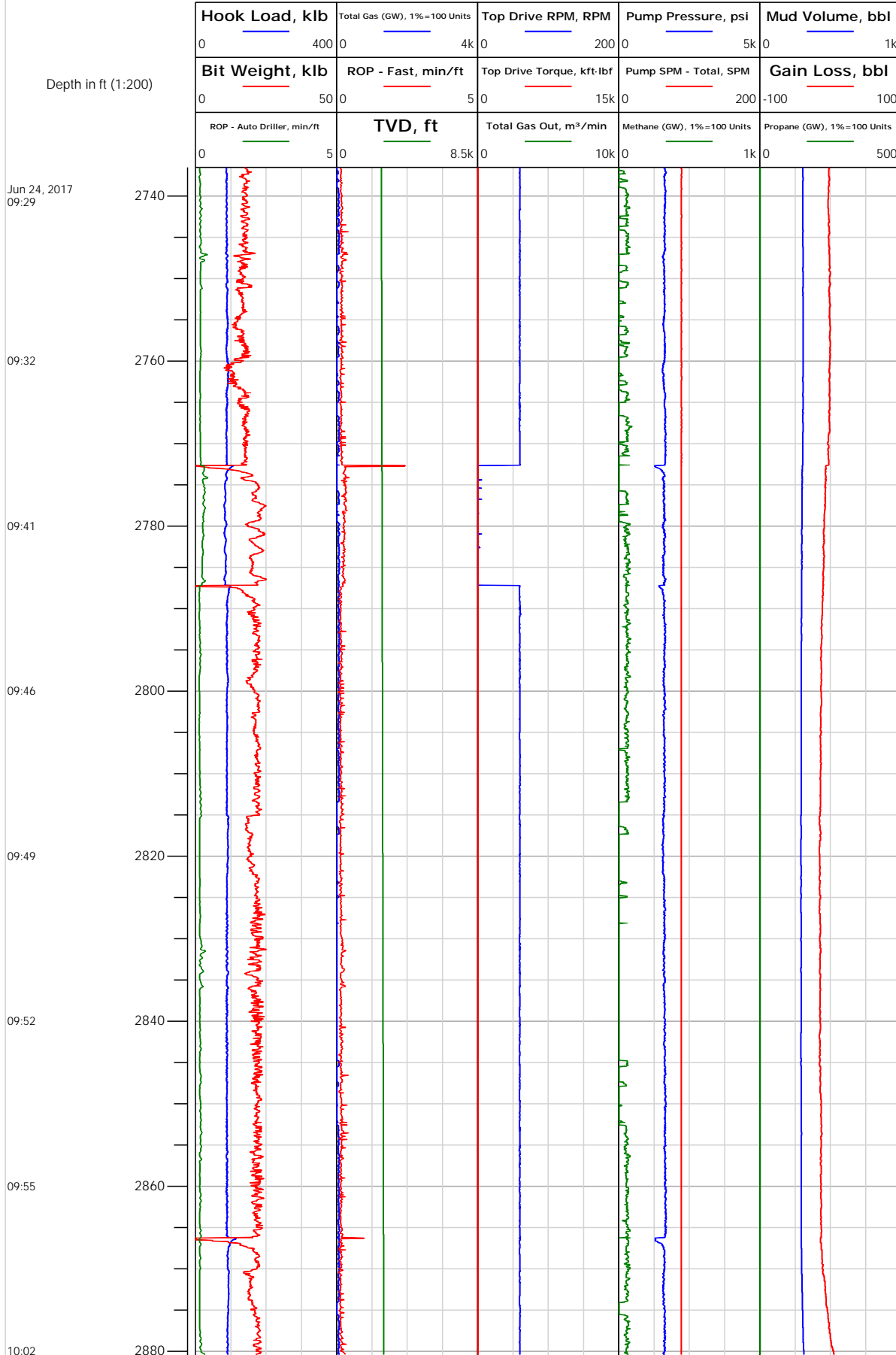
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Contractor: Helmerich & Payne Drlg Co

Well Name: Gunderson 20-05W
Rig: 522

Location:

Notes





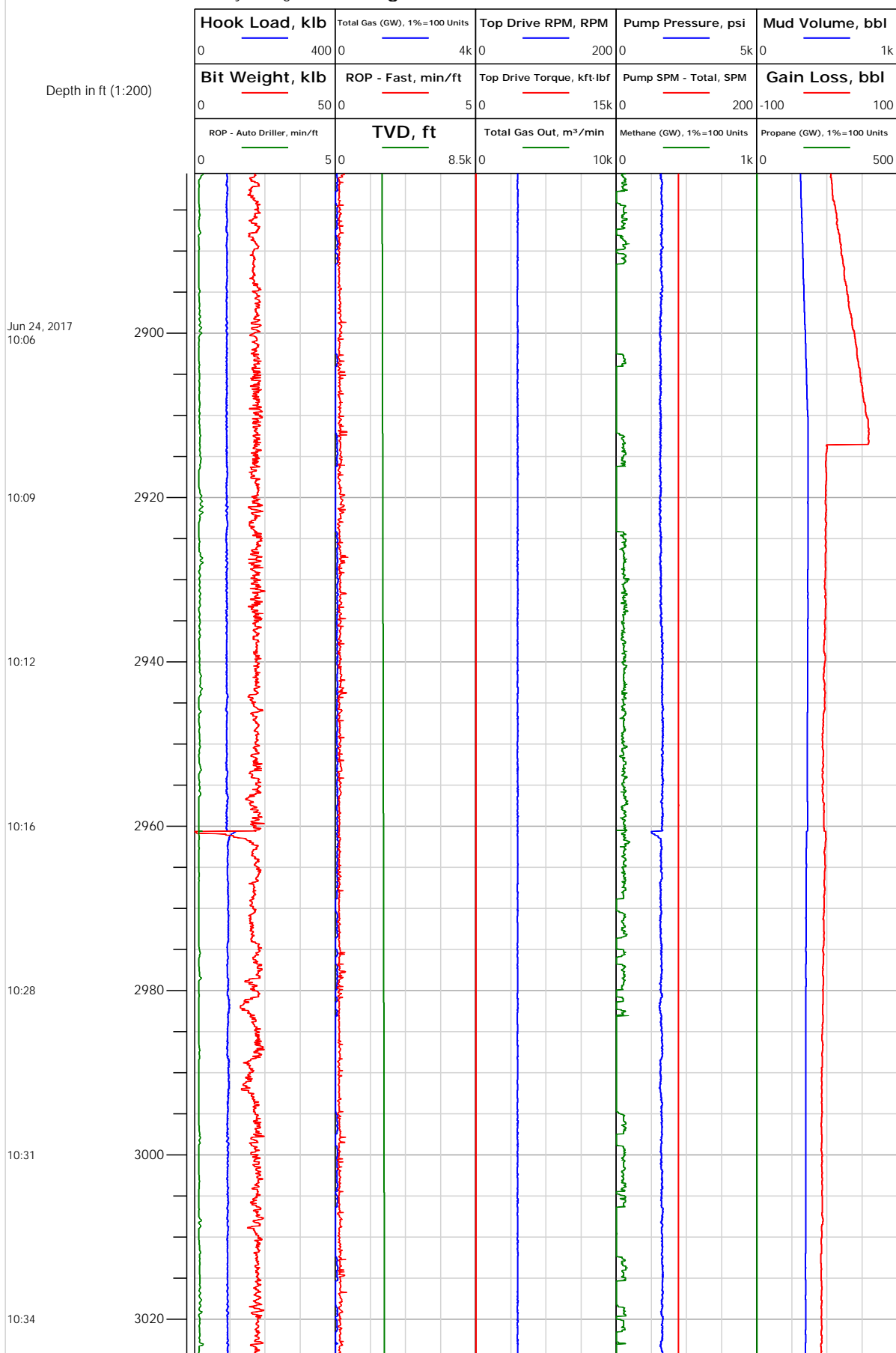
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Contractor: Helmerich & Payne Drlg Co

Well Name: Gunderson 20-05W
Rig: 522

Location:

Notes





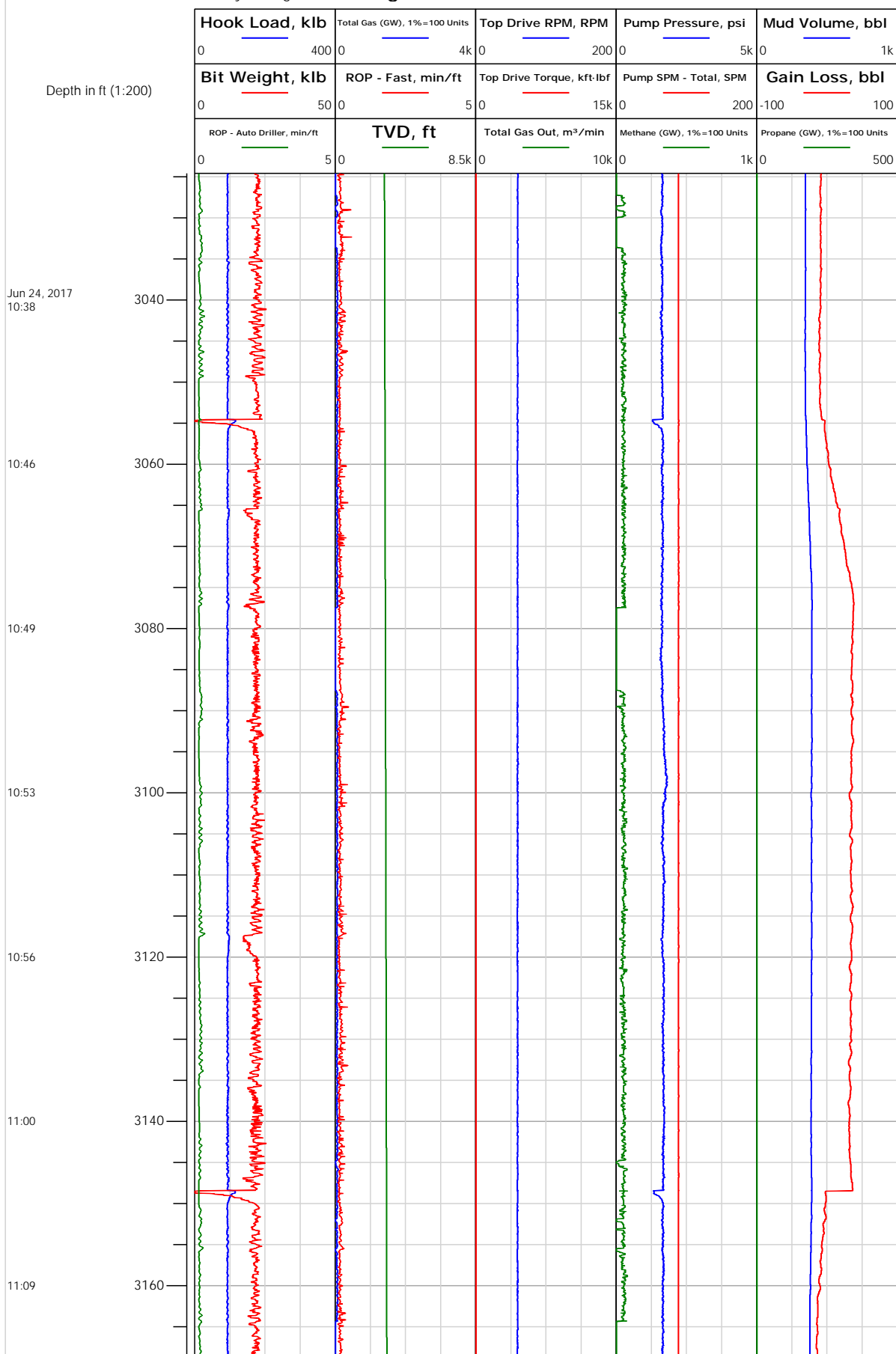
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Contractor: Helmerich & Payne Drlg Co

Well Name: Gunderson 20-05W
Rig: 522

Location:

Notes





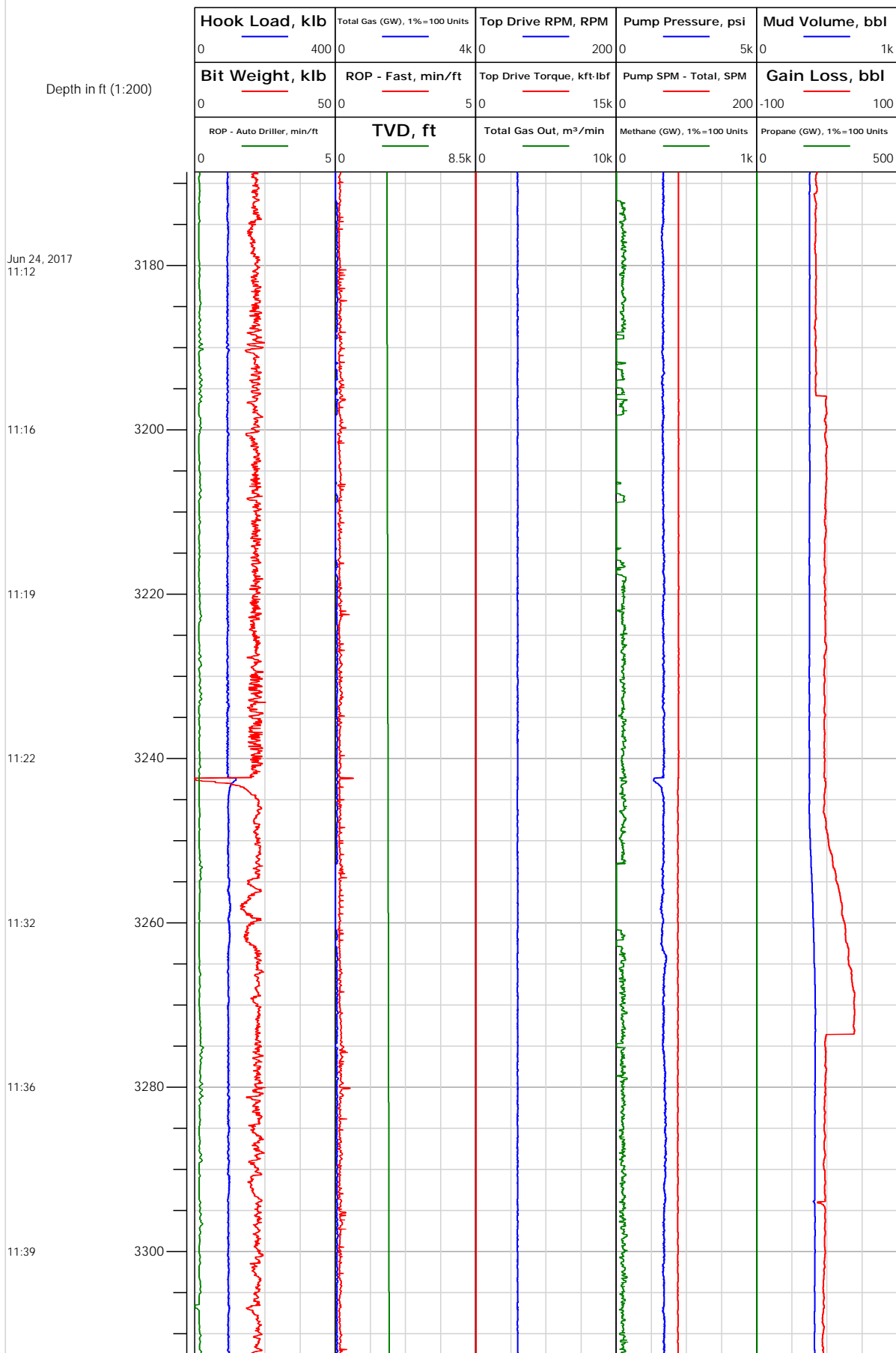
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Contractor: Helmerich & Payne Drlg Co

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Rig: 522

Location:

Notes





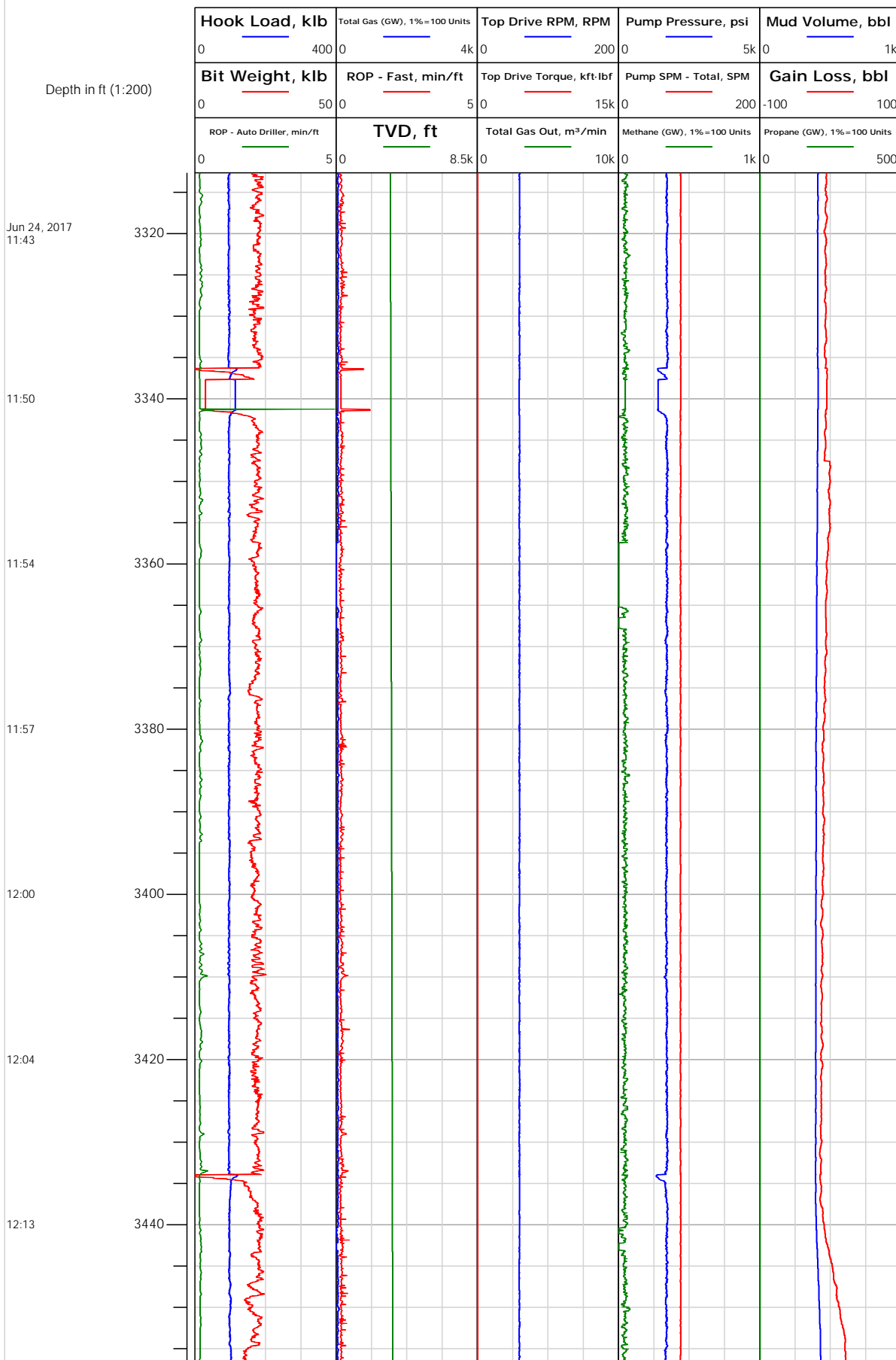
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Contractor: Helmerich & Payne Drlg Co

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Rig: 522

Location:

Notes





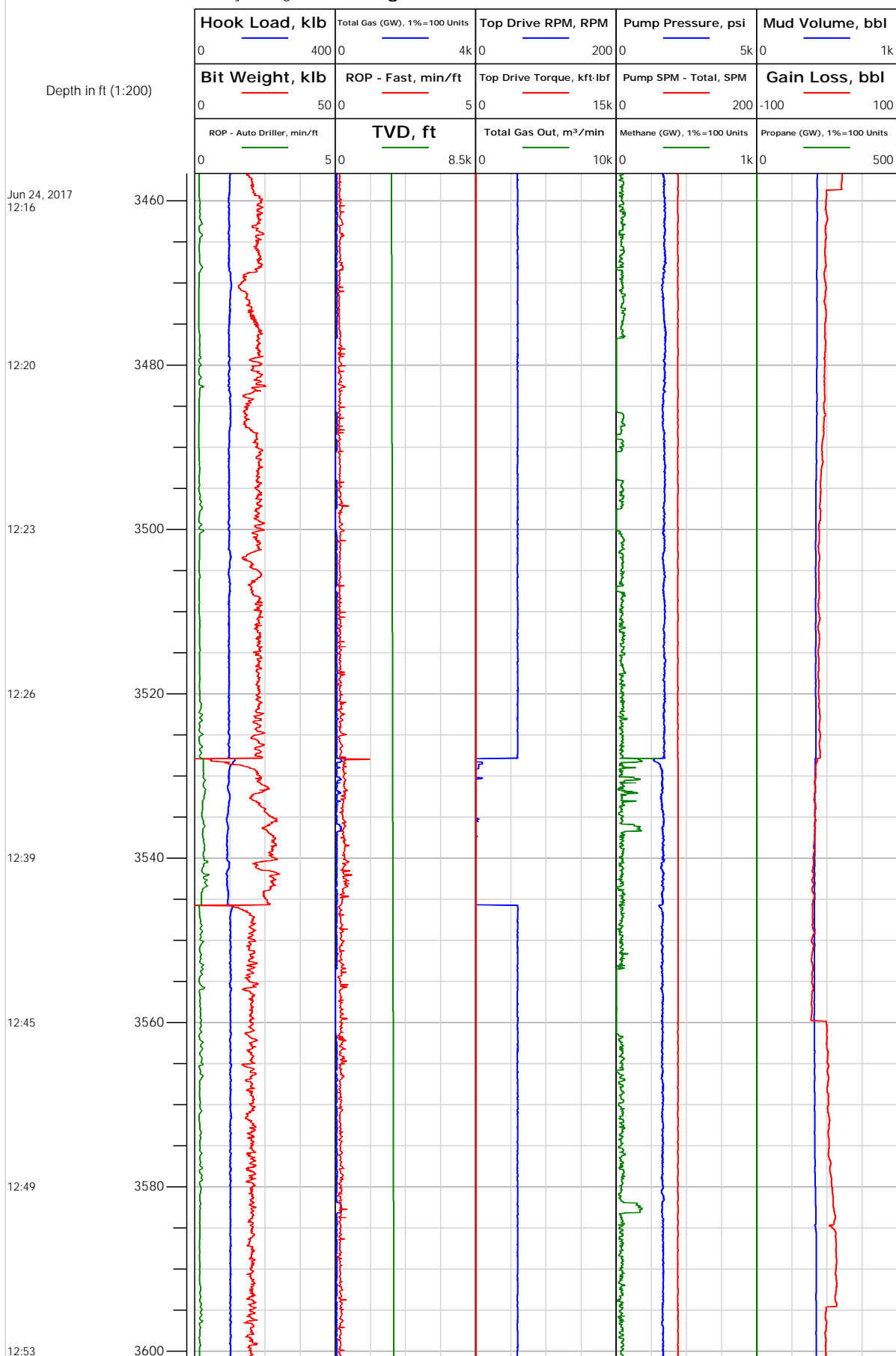
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Contractor: Helmerich & Payne Drlg Co

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Rig: 522

Location:

Notes





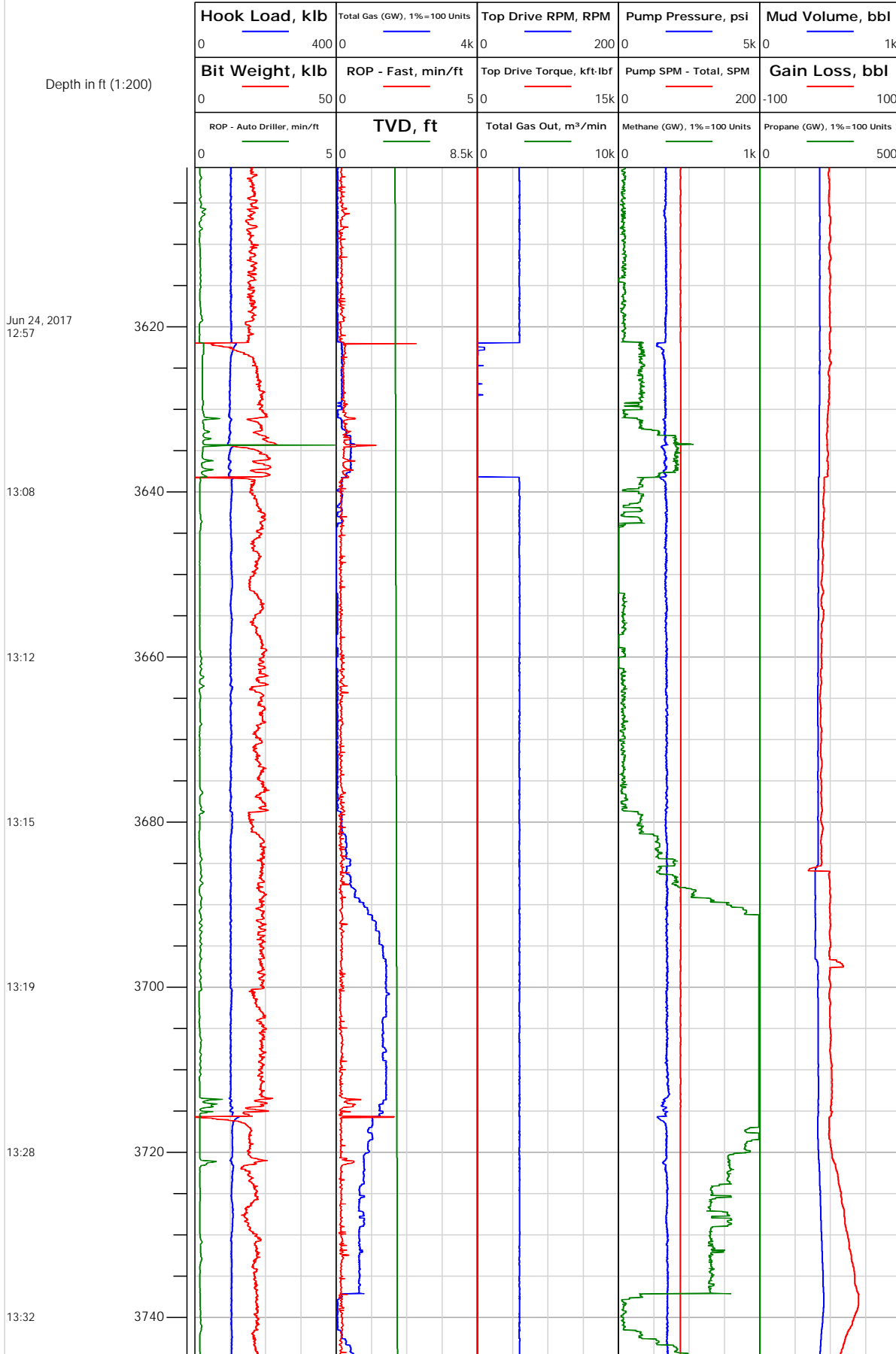
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Contractor: Helmerich & Payne Drlg Co

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Rig: 522

Location:

Notes





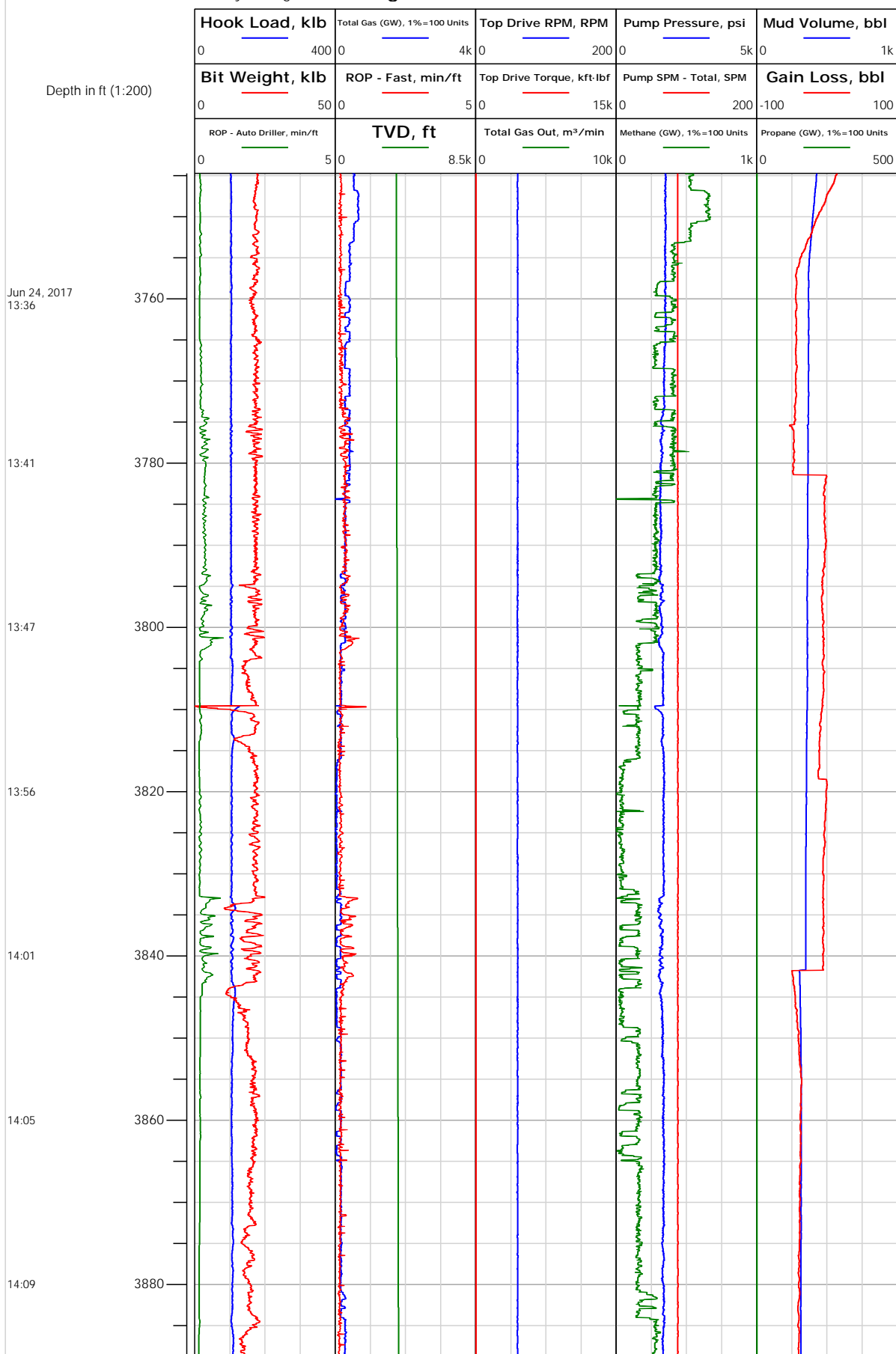
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Contractor: Helmerich & Payne Drlg Co

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Rig: 522

Location:

Notes





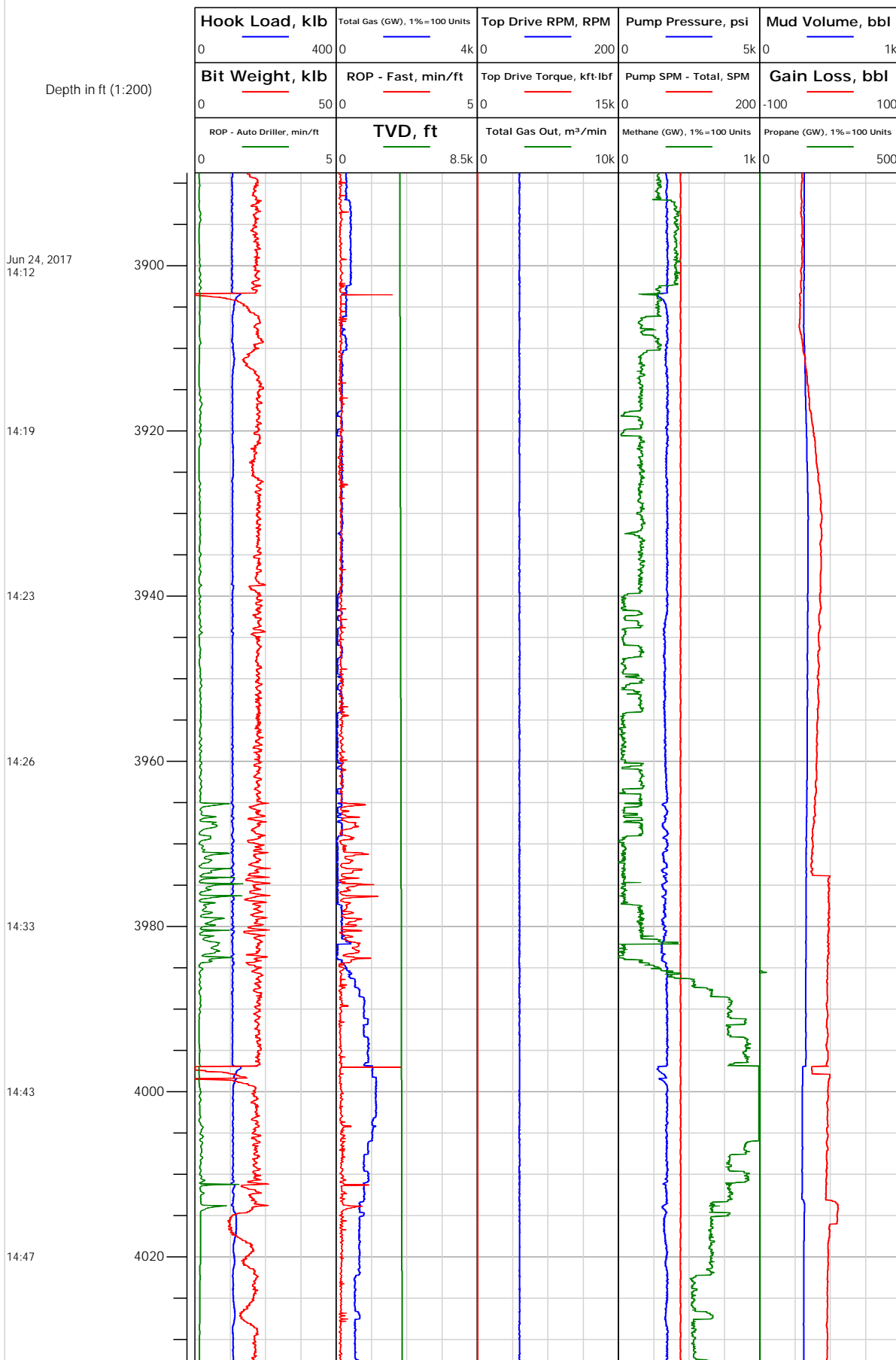
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Contractor: Helmerich & Payne Drlg Co

Well Name: Gunderson 20-05W
Rig: 522

Location:

Notes





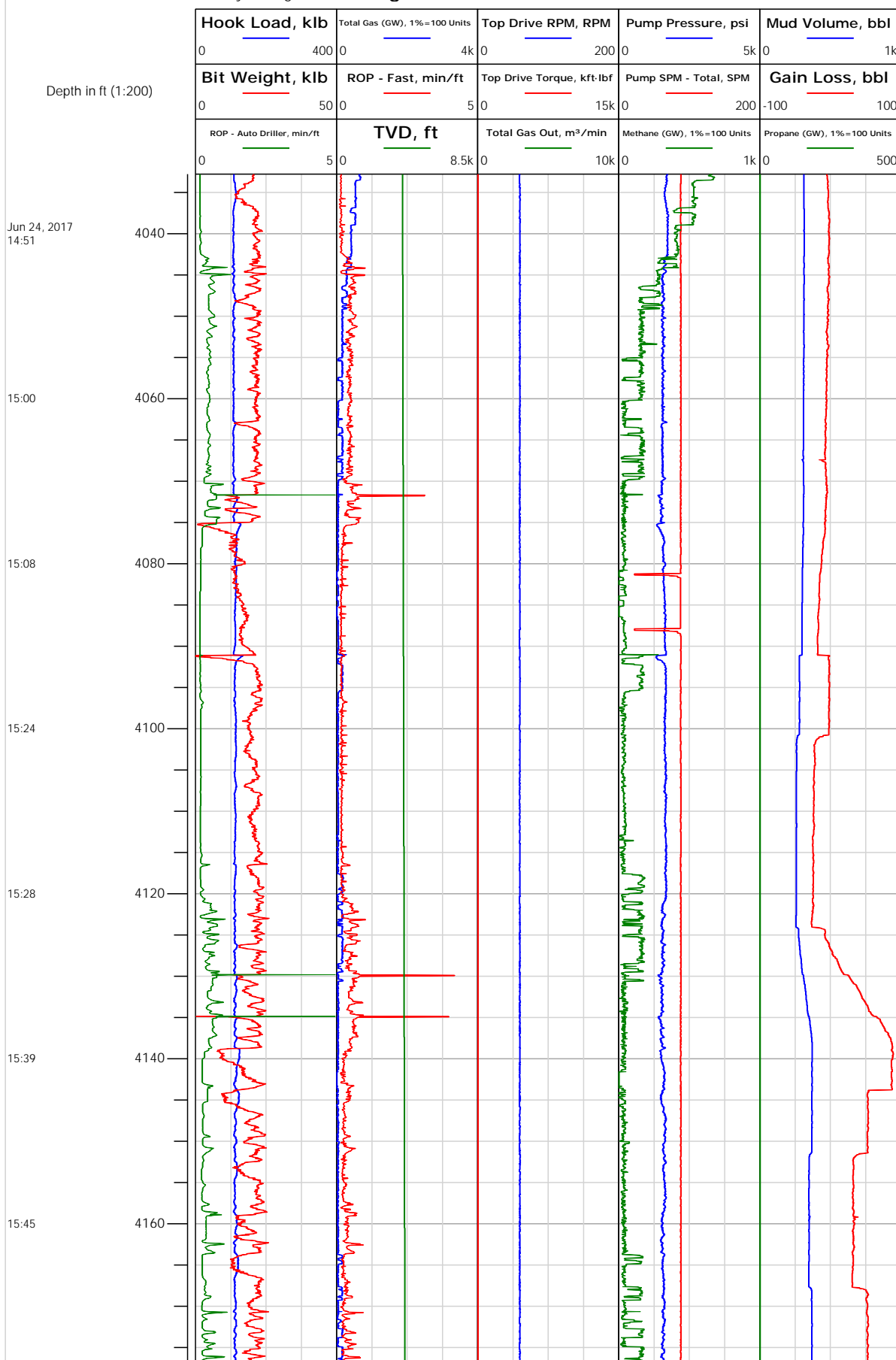
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Operator: Laramie Energy
Contractor: Helmerich & Payne Drlg Co

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Rig: 522

Location:

Notes





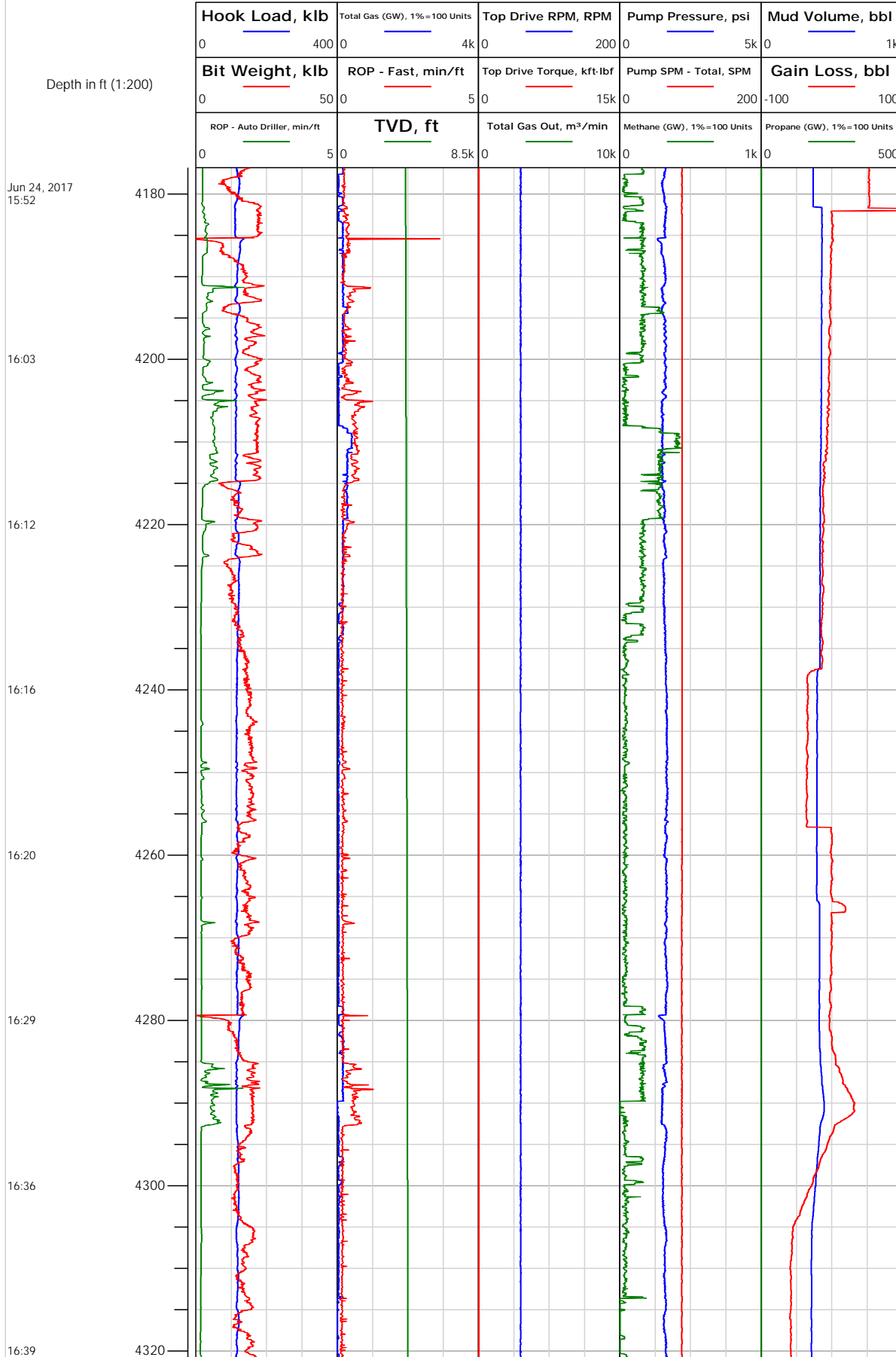
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Contractor: Helmerich & Payne Drlg Co

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Rig: 522

Location:

Notes





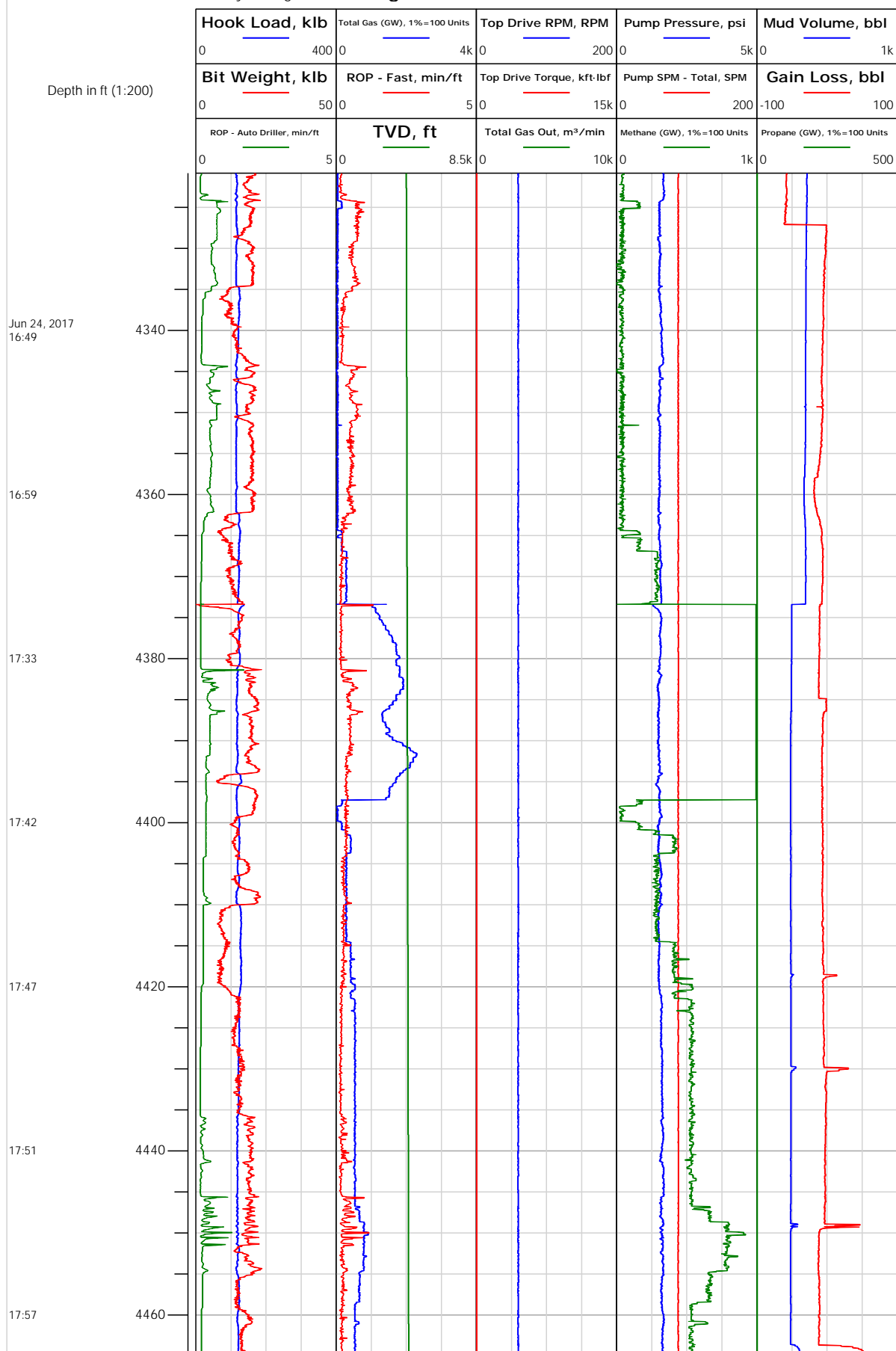
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Contractor: Helmerich & Payne Drlg Co

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Rig: 522

Location:

Notes





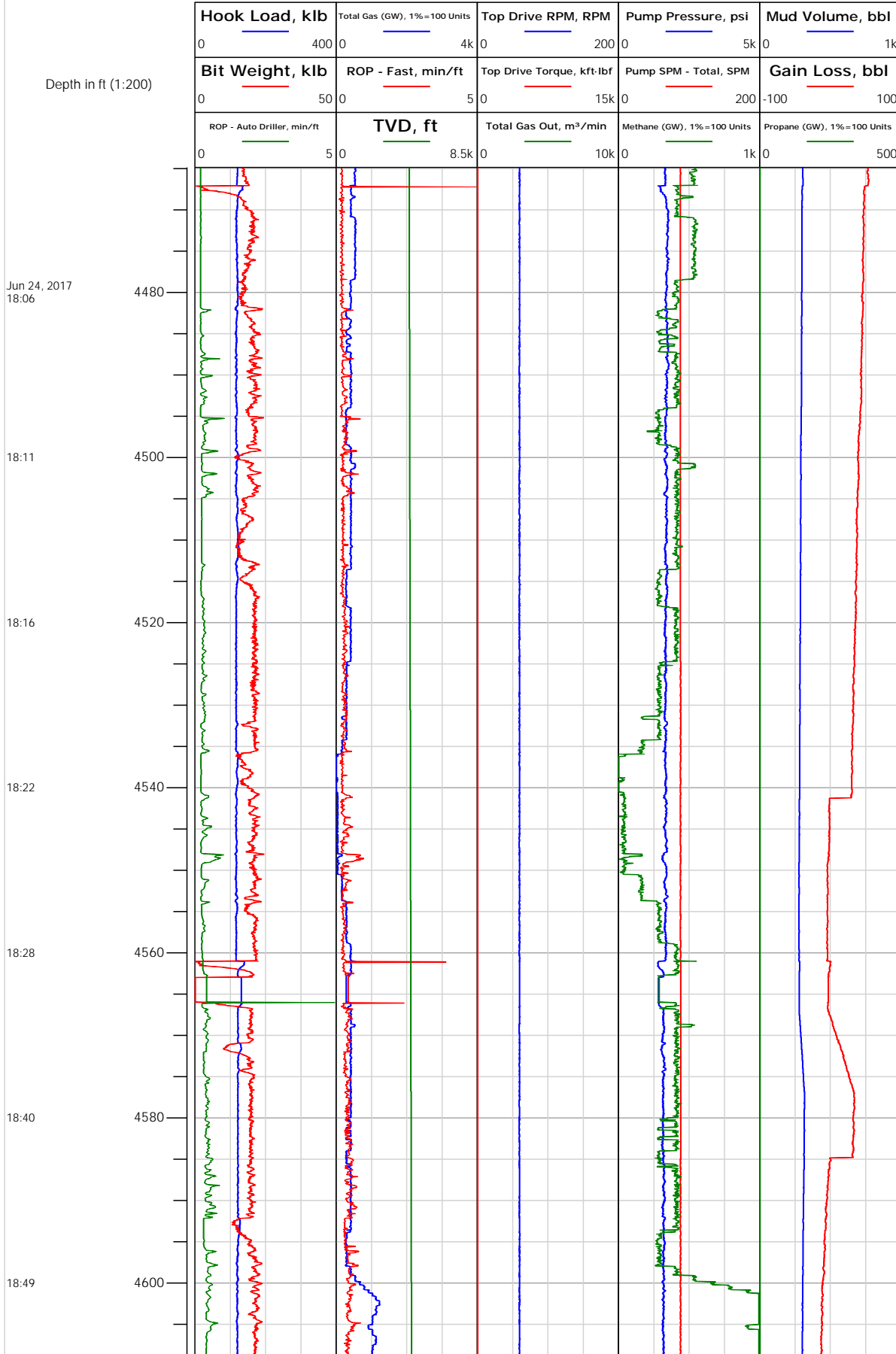
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Contractor: Helmerich & Payne Drlg Co

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Rig: 522

Location:

Notes





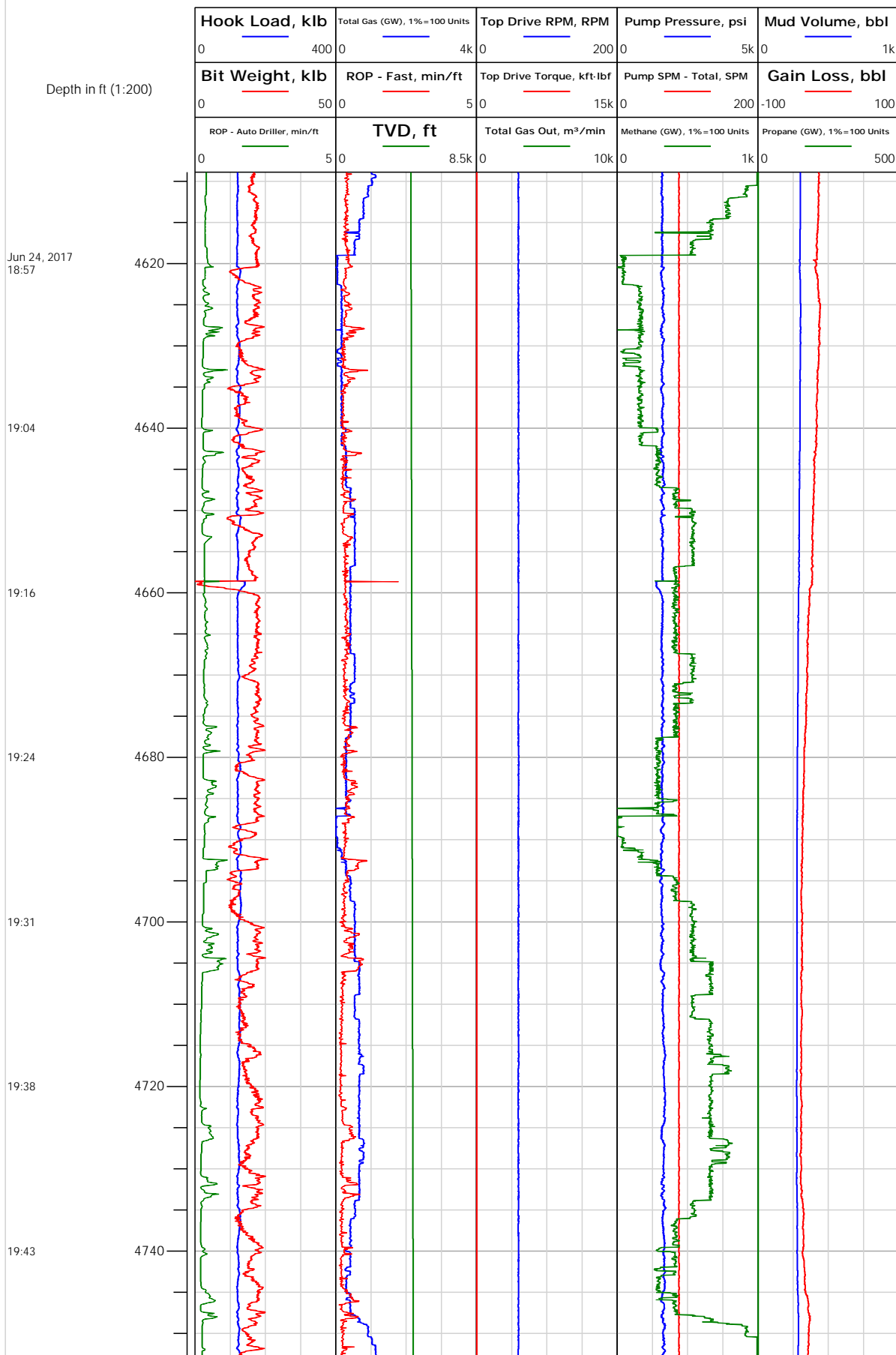
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Contractor: Helmerich & Payne Drlg Co

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Rig: 522

Location:

Notes





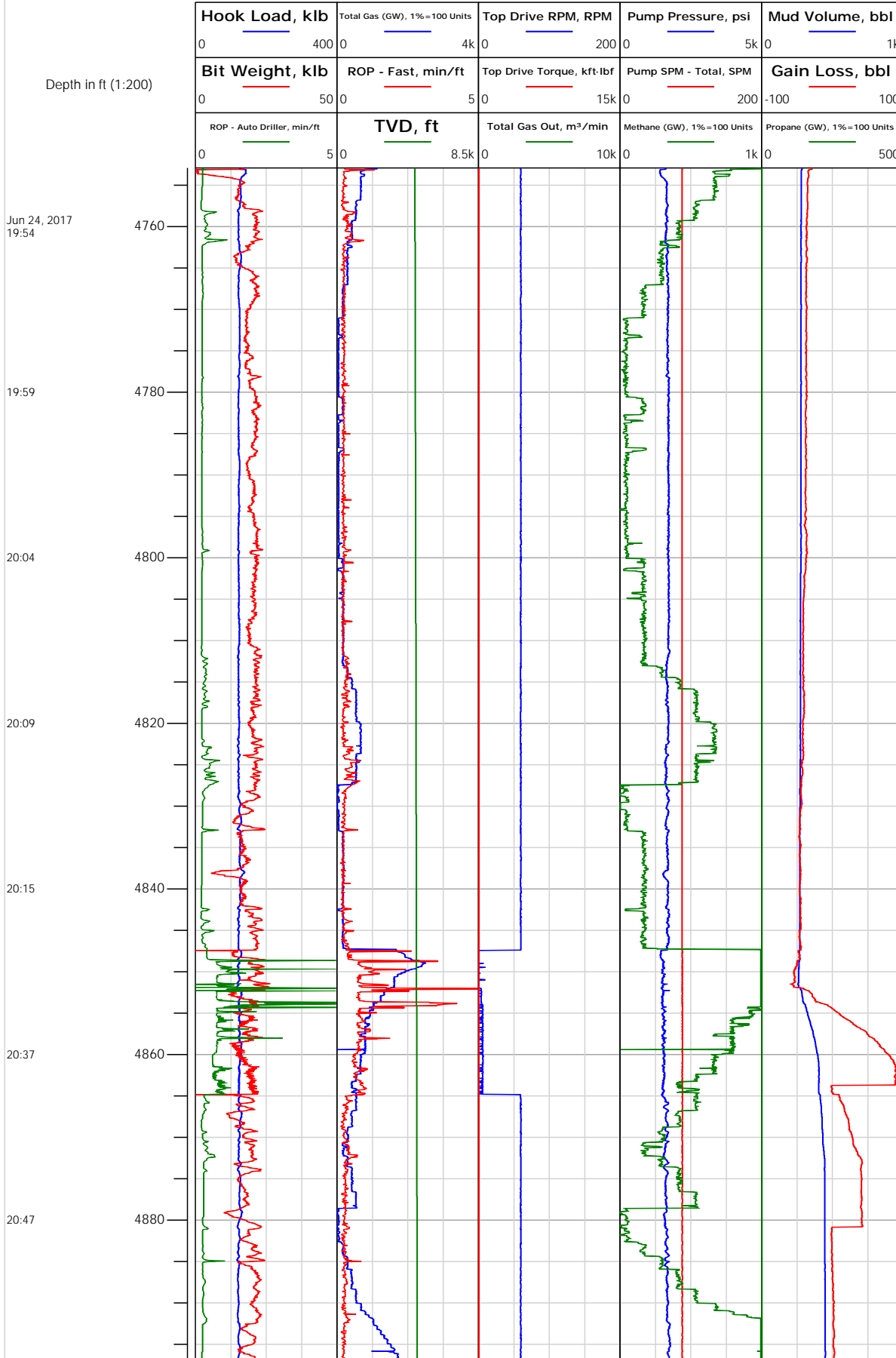
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Contractor: Helmerich & Payne Drlg Co

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Rig: 522

Location:

Notes





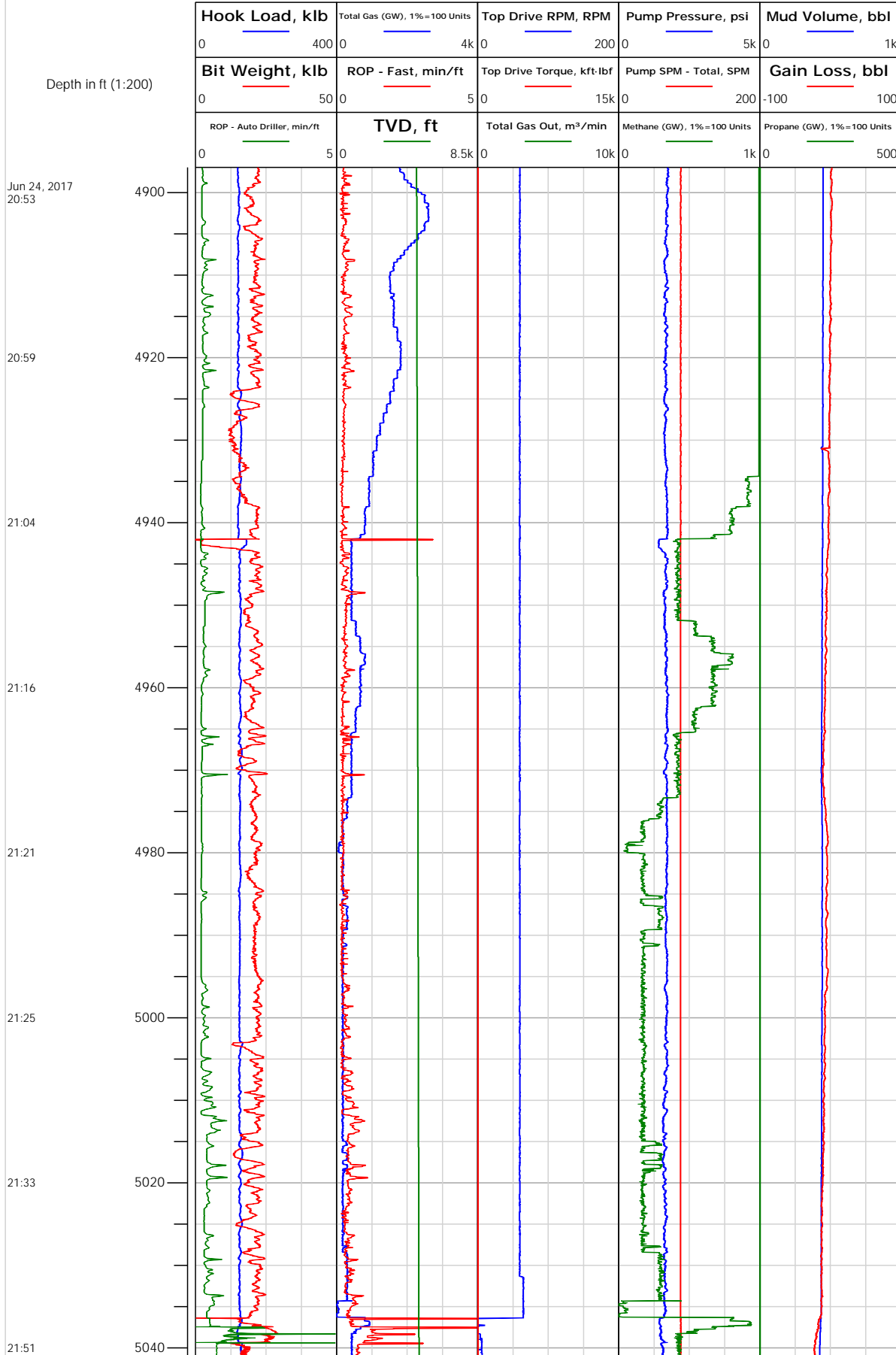
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Contractor: Helmerich & Payne Drlg Co

Well Name: Gunderson 20-05W
Rig: 522

Location:

Notes





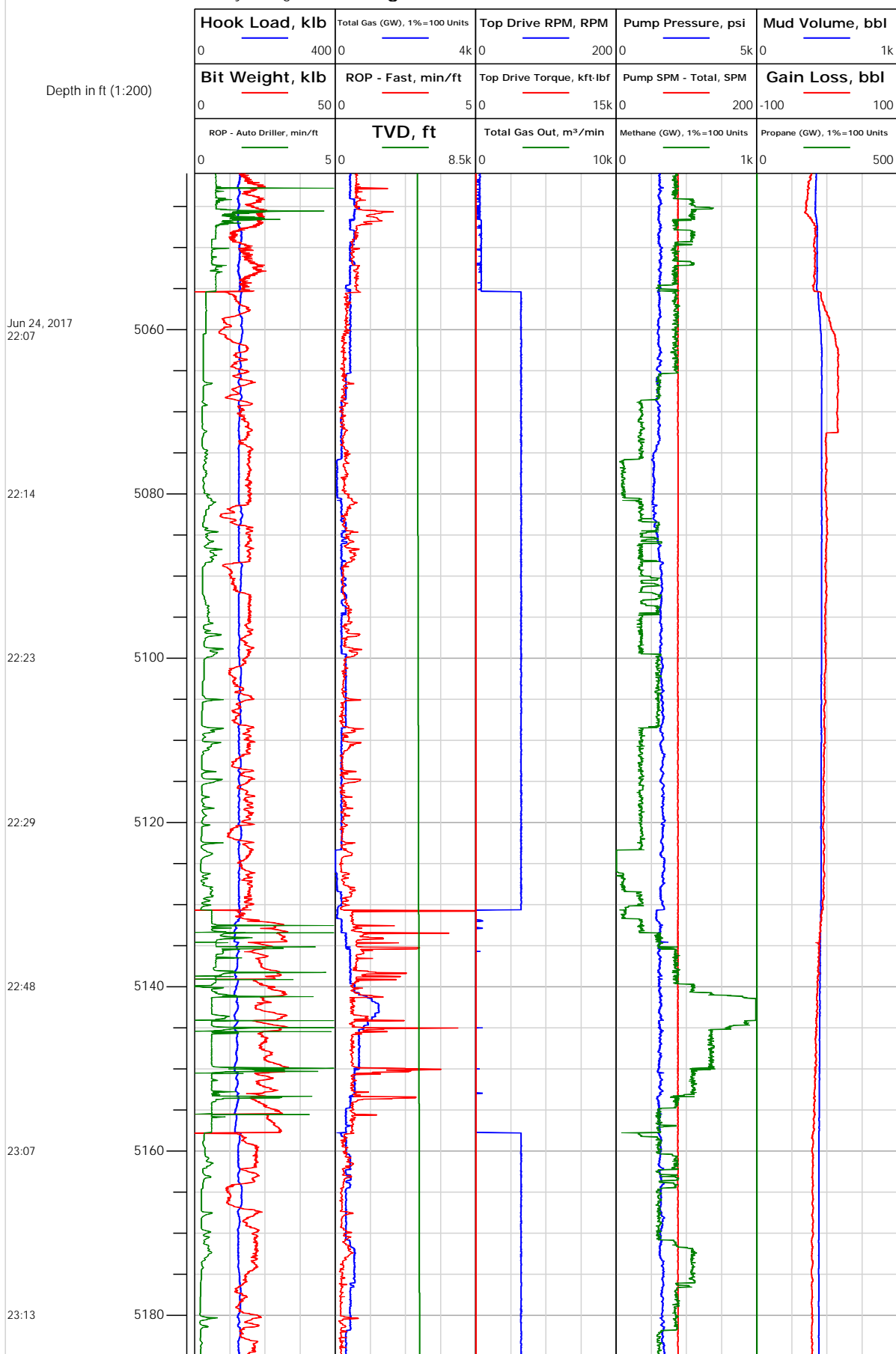
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Contractor: Helmerich & Payne Drlg Co

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Rig: 522

Location:

Notes





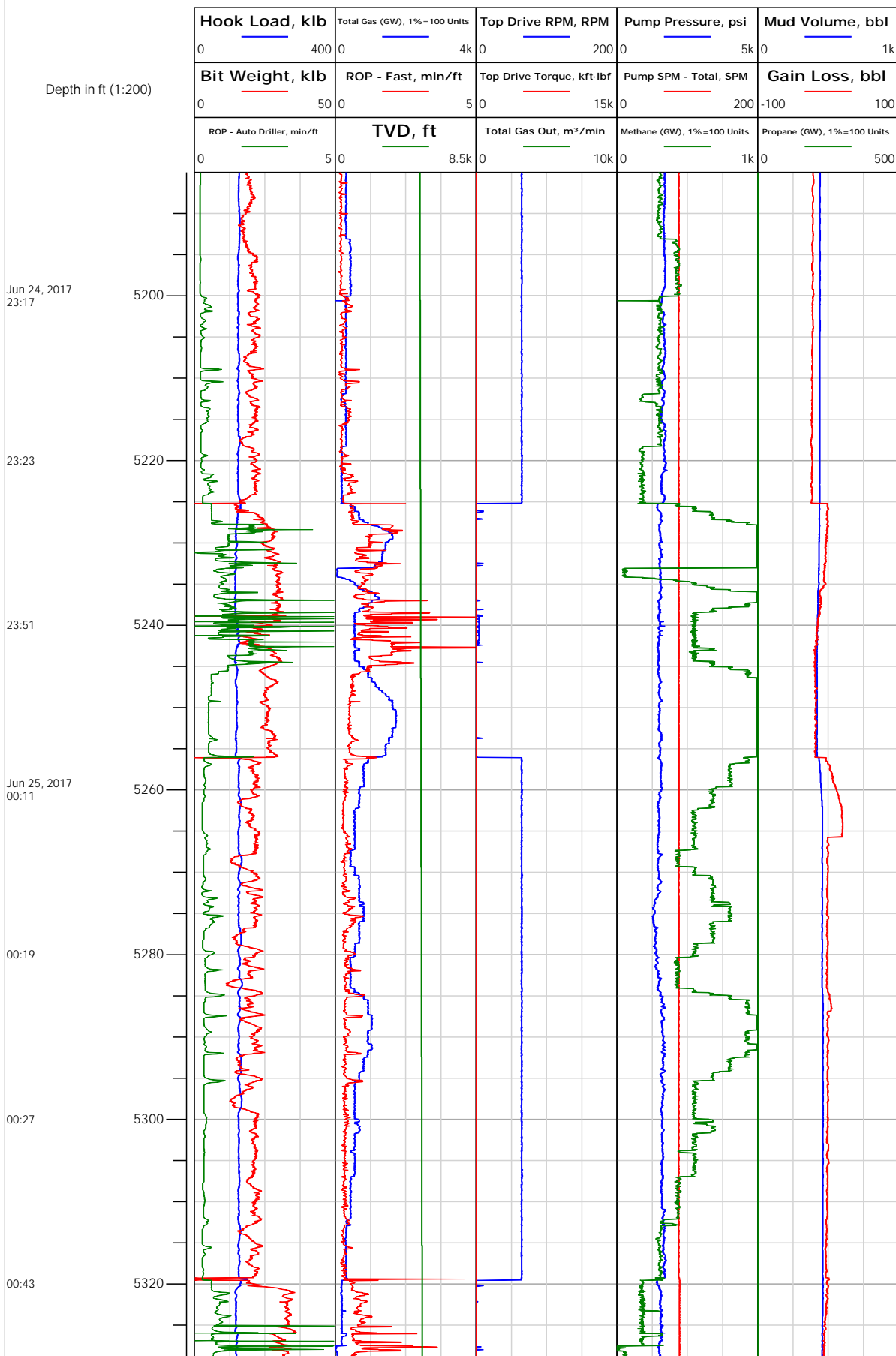
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Contractor: Helmerich & Payne Drlg Co

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Rig: 522

Location:

Notes





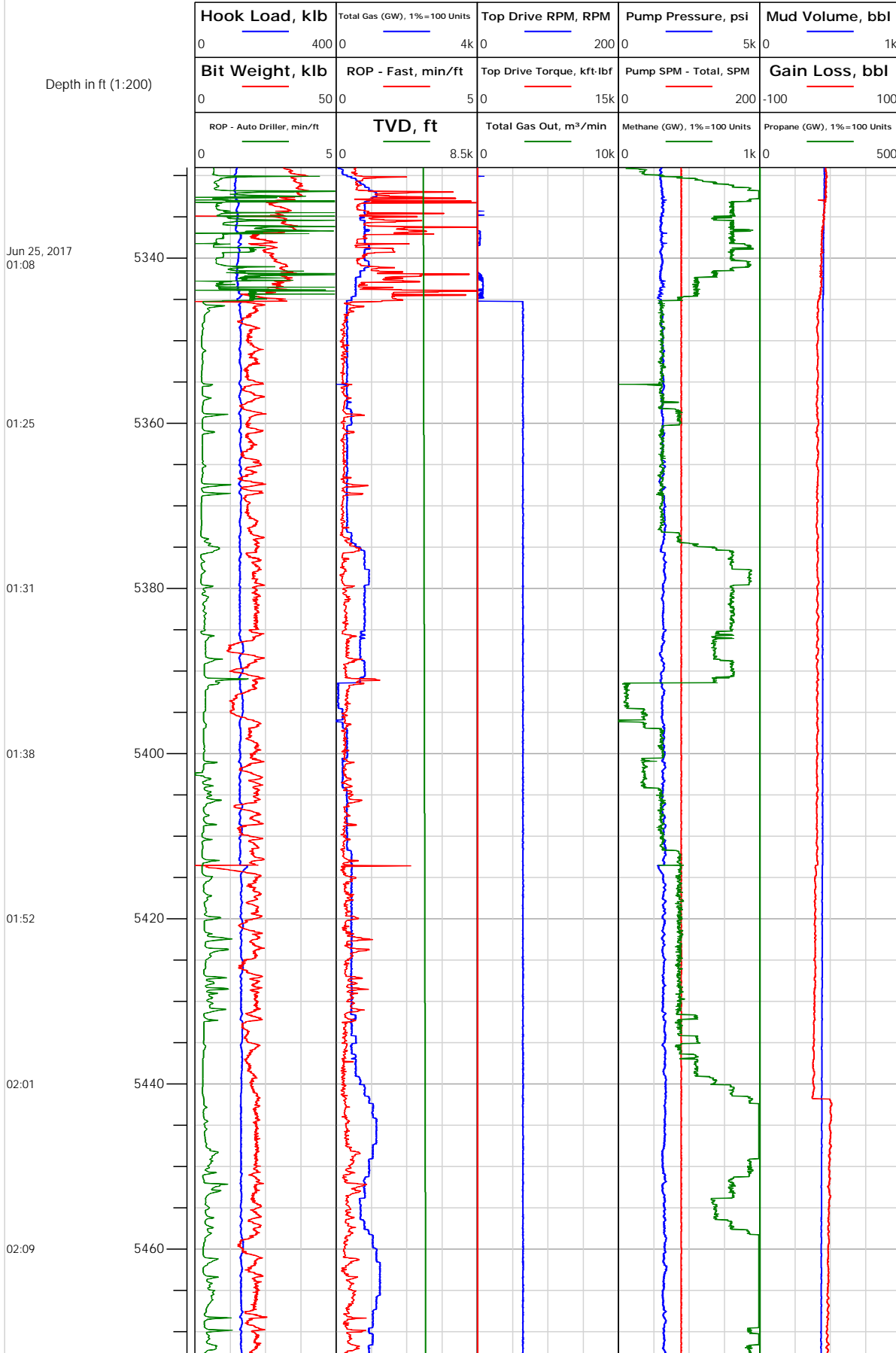
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Contractor: Helmerich & Payne Drlg Co

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Rig: 522

Location:

Notes





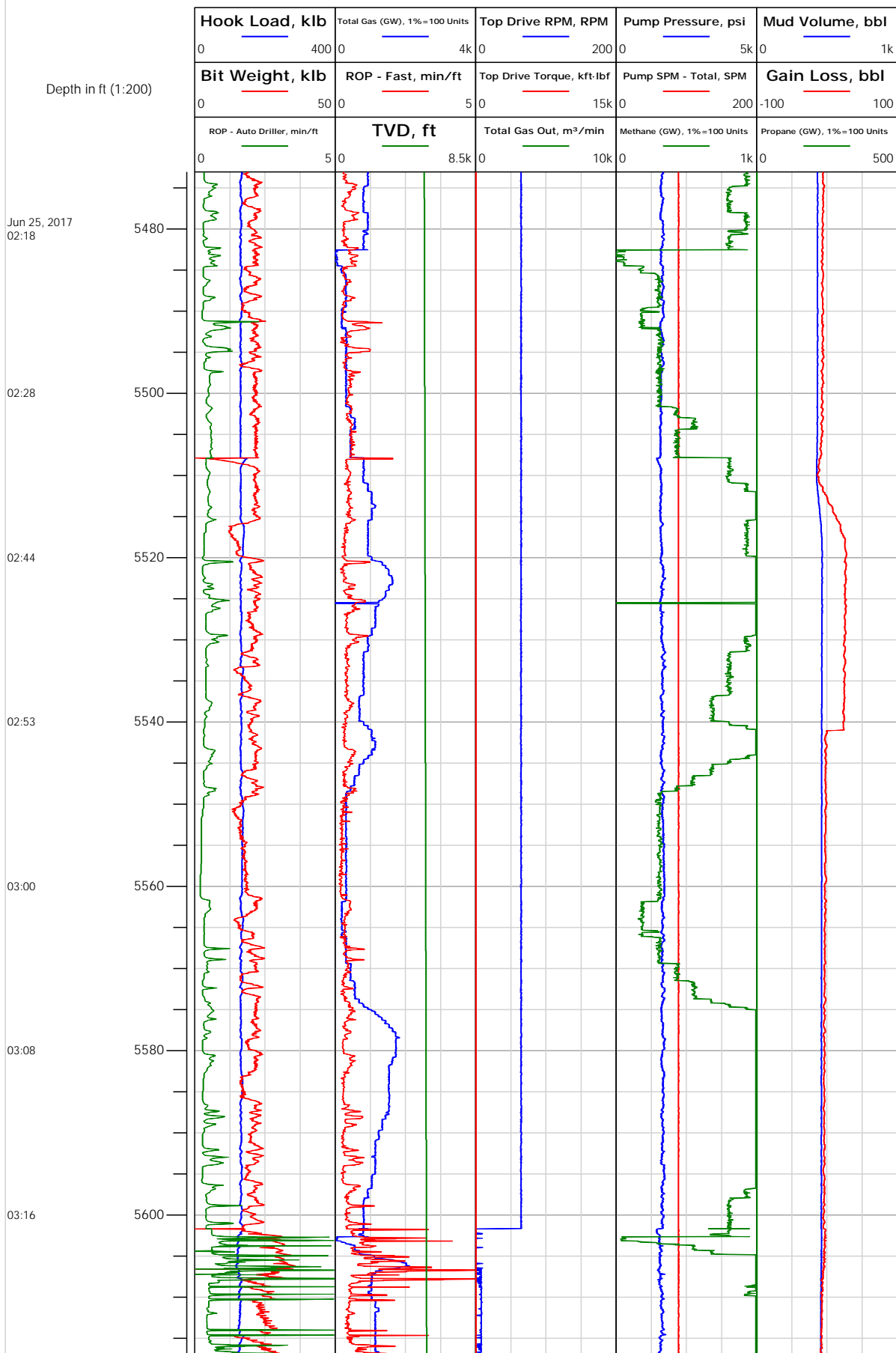
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Contractor: Helmerich & Payne Drlg Co

Well Name: Gunderson 20-05W
Rig: 522

Location:

Notes





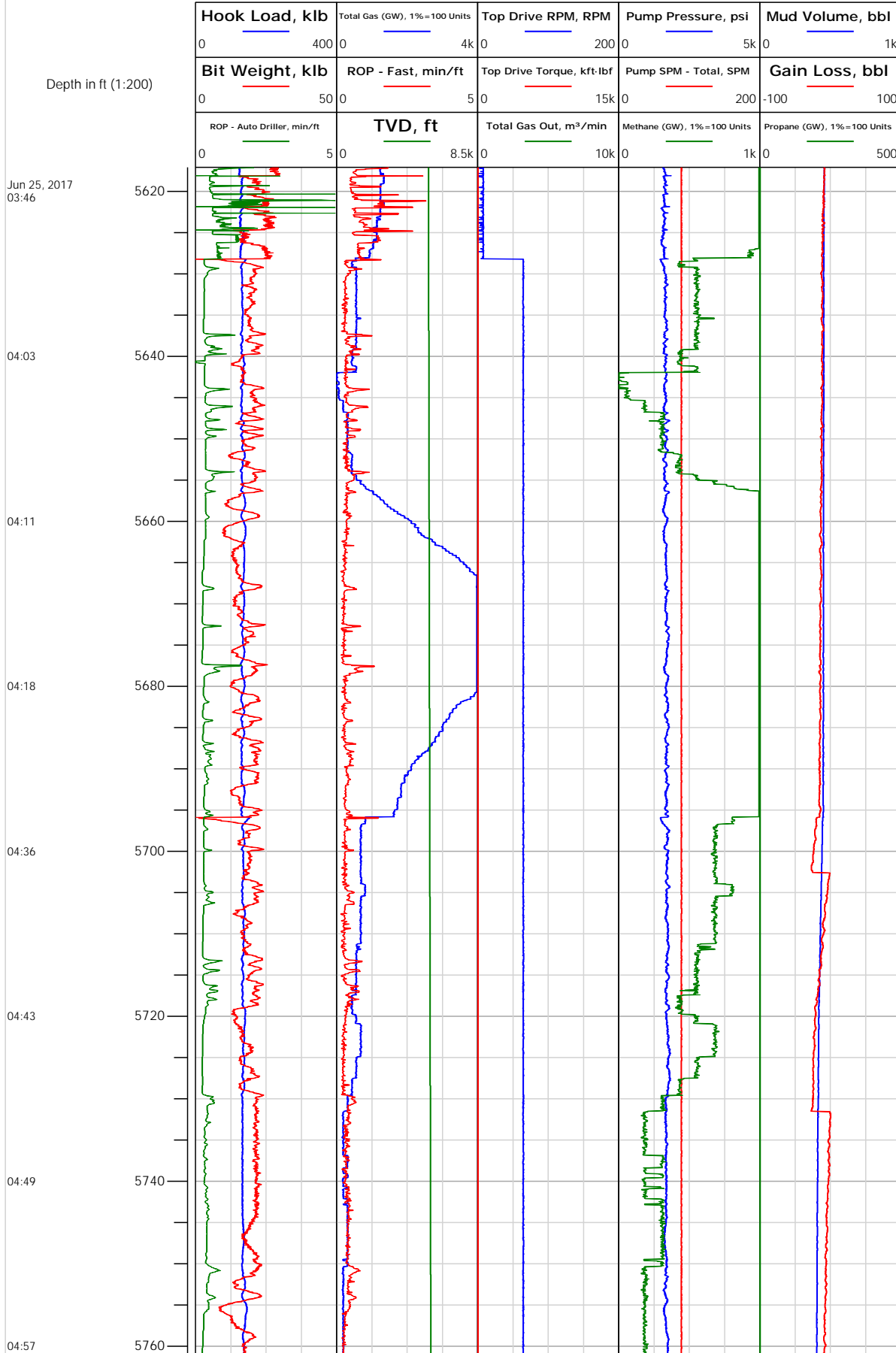
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Contractor: Helmerich & Payne Drlg Co

Well Name: Gunderson 20-05W
Rig: 522

Location:

Notes





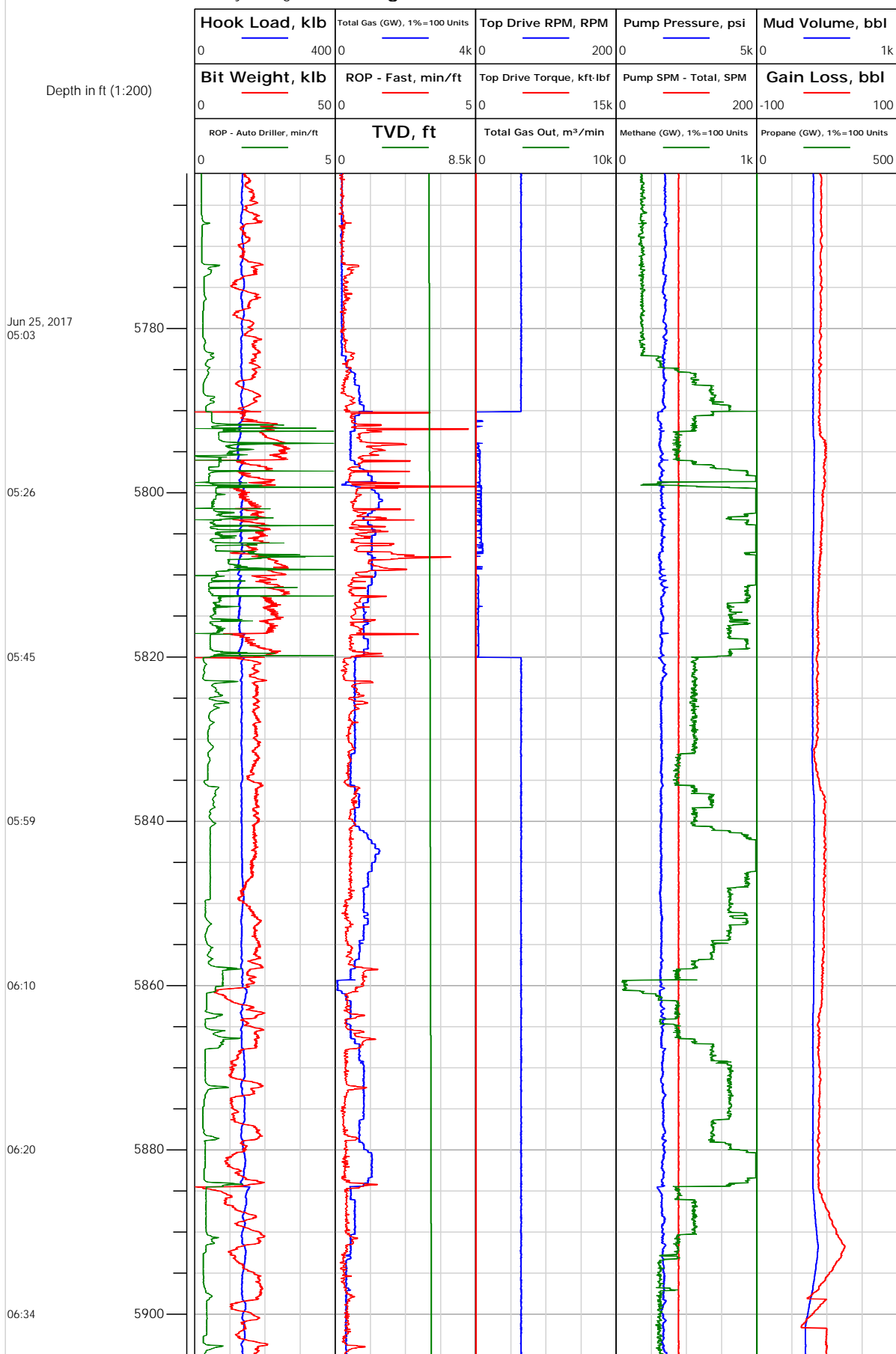
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Contractor: Helmerich & Payne Drlg Co

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Rig: 522

Location:

Notes





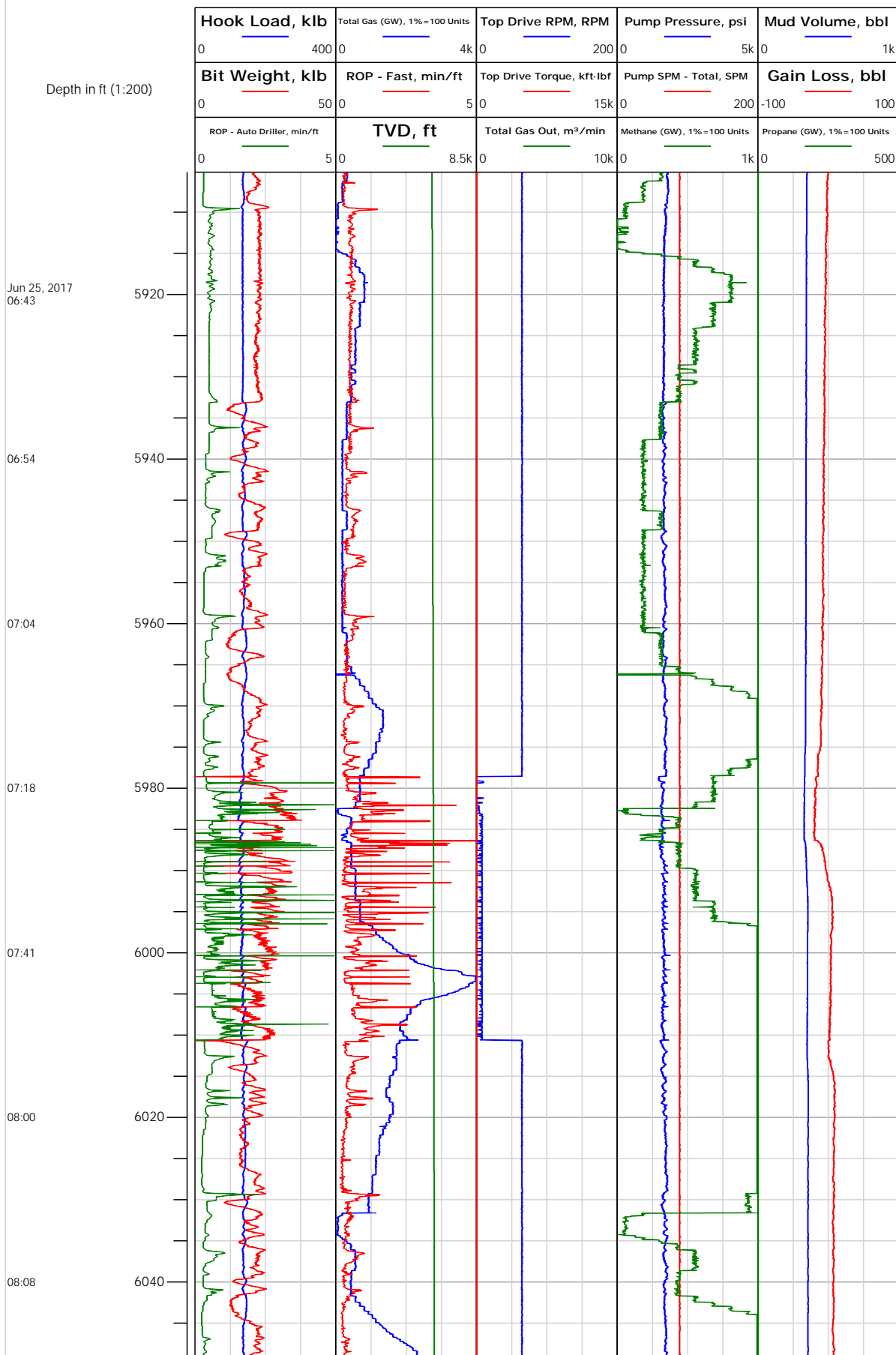
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Rig: 522

Location:

Notes





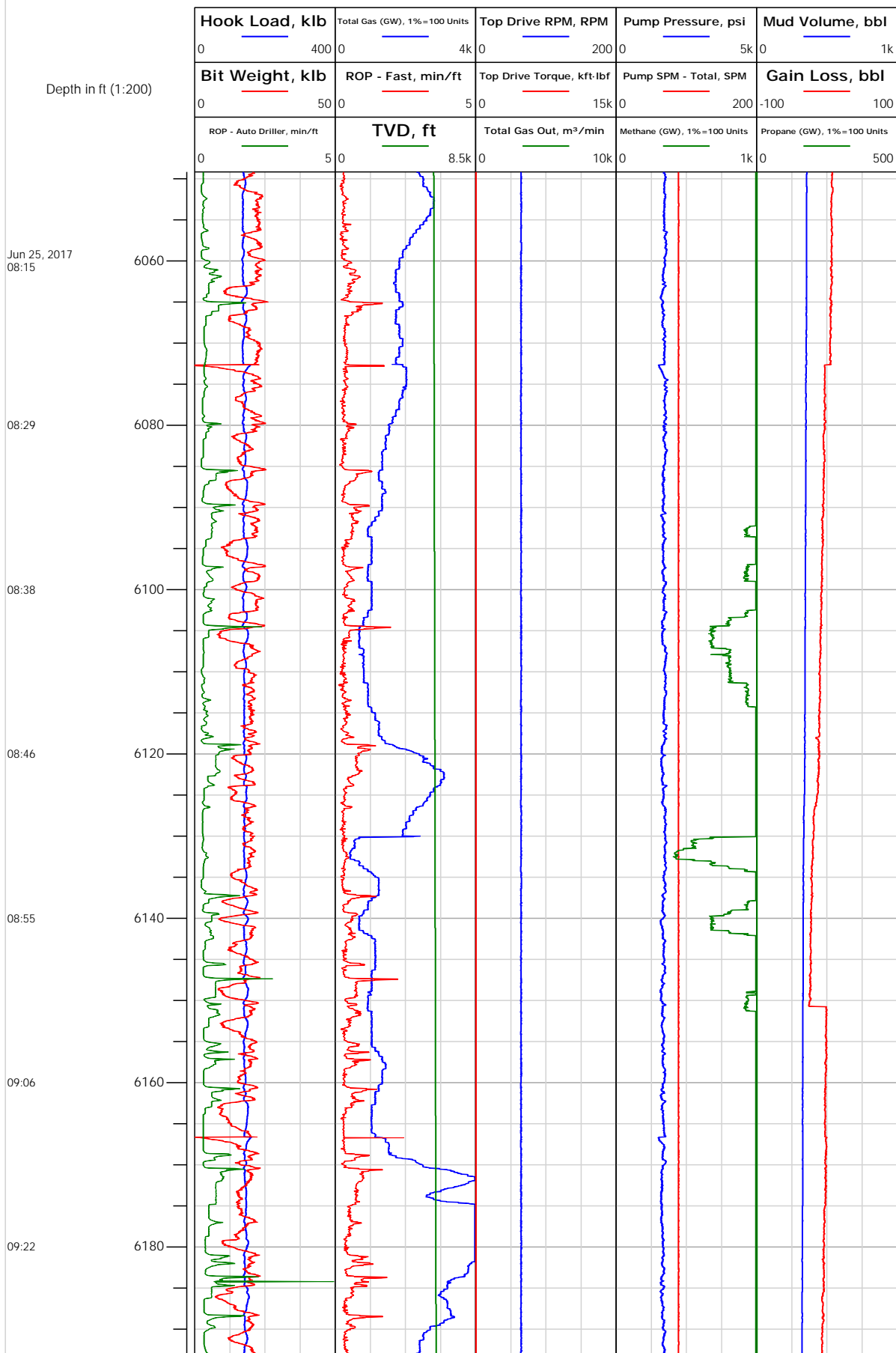
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Contractor: Helmerich & Payne Drlg Co

Well Name: Gunderson 20-05W
Rig: 522

Location:

Notes





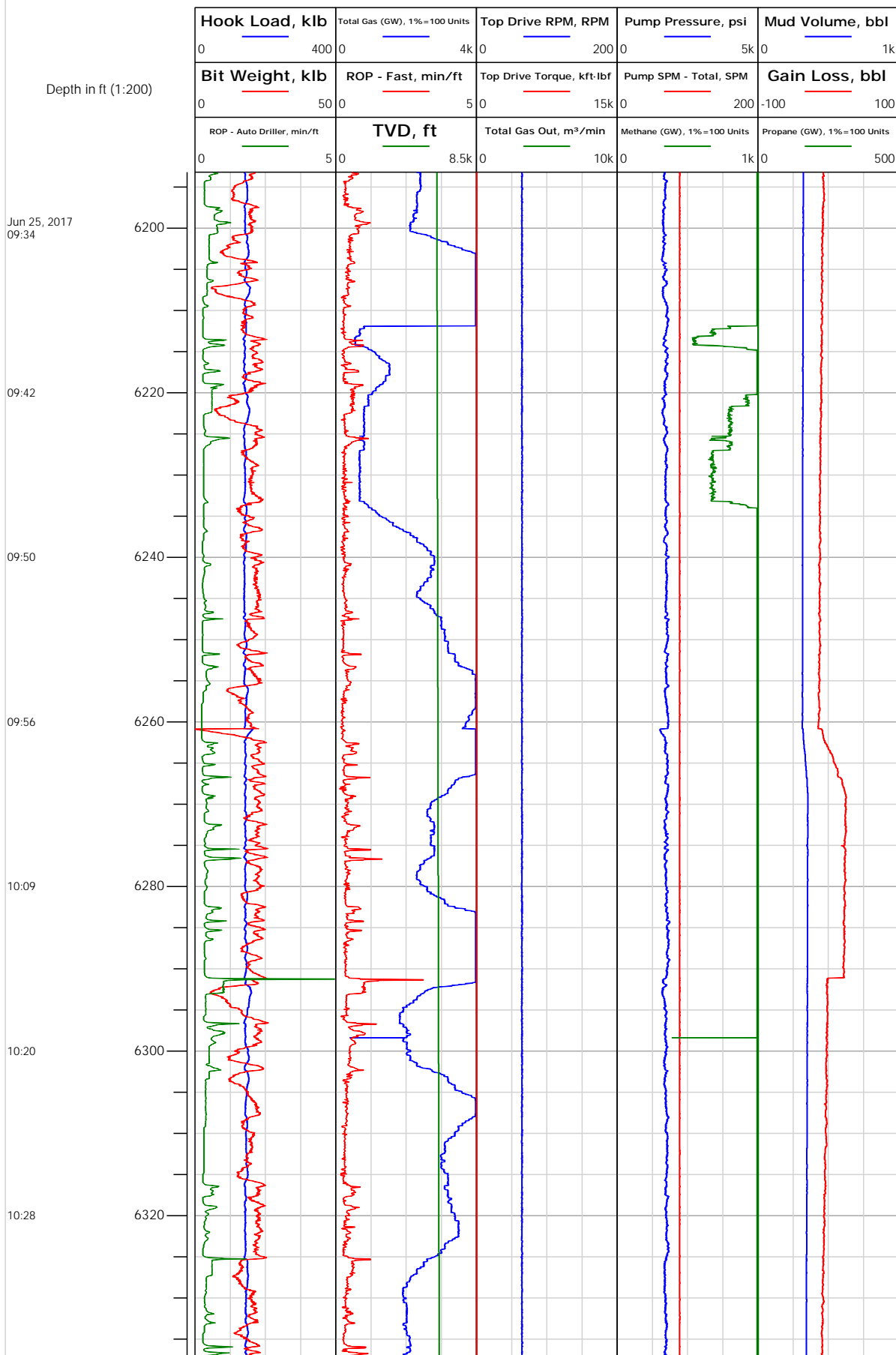
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Rig: 522

Location:

Notes





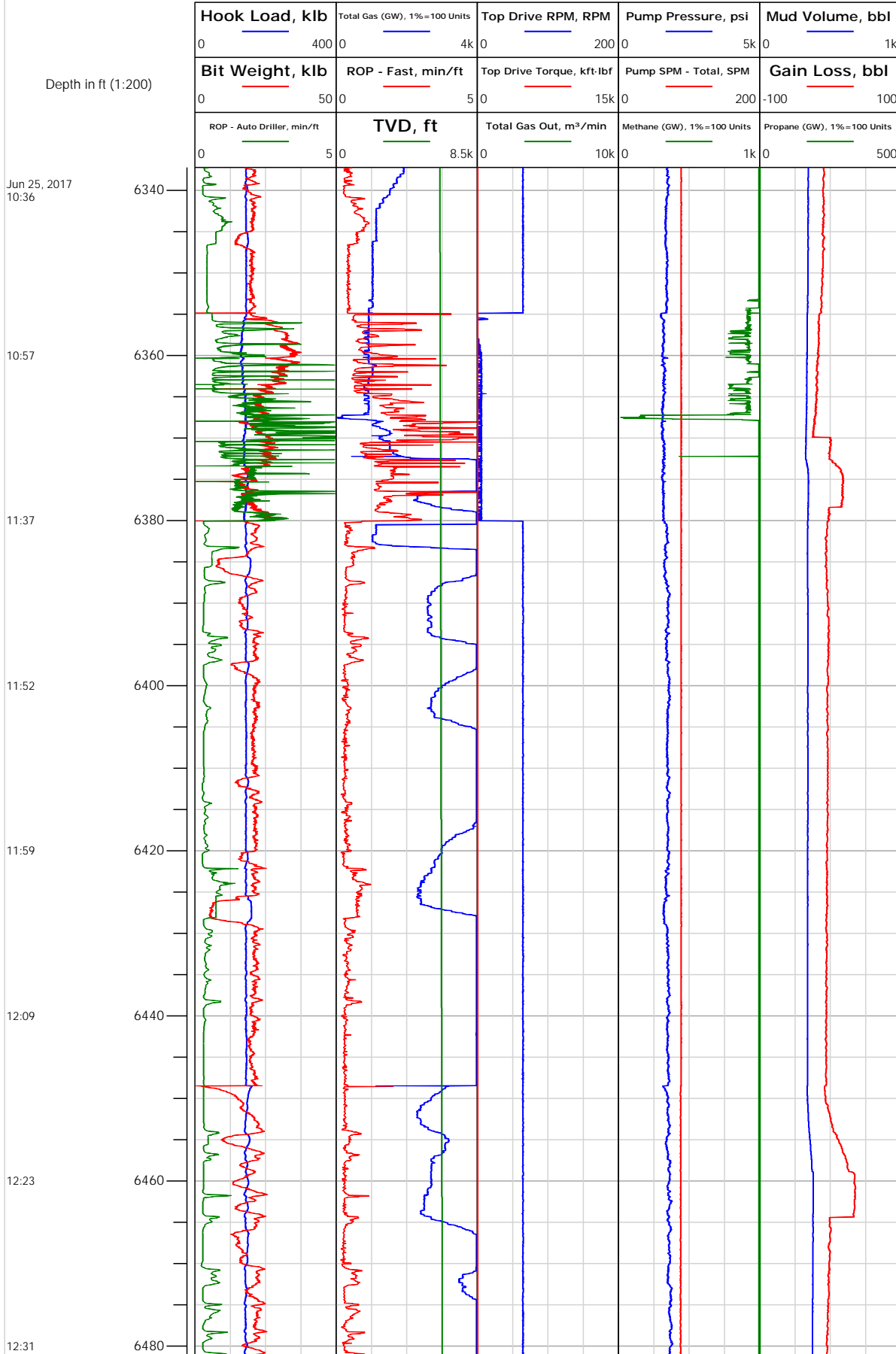
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Rig: 522

Location:

Notes





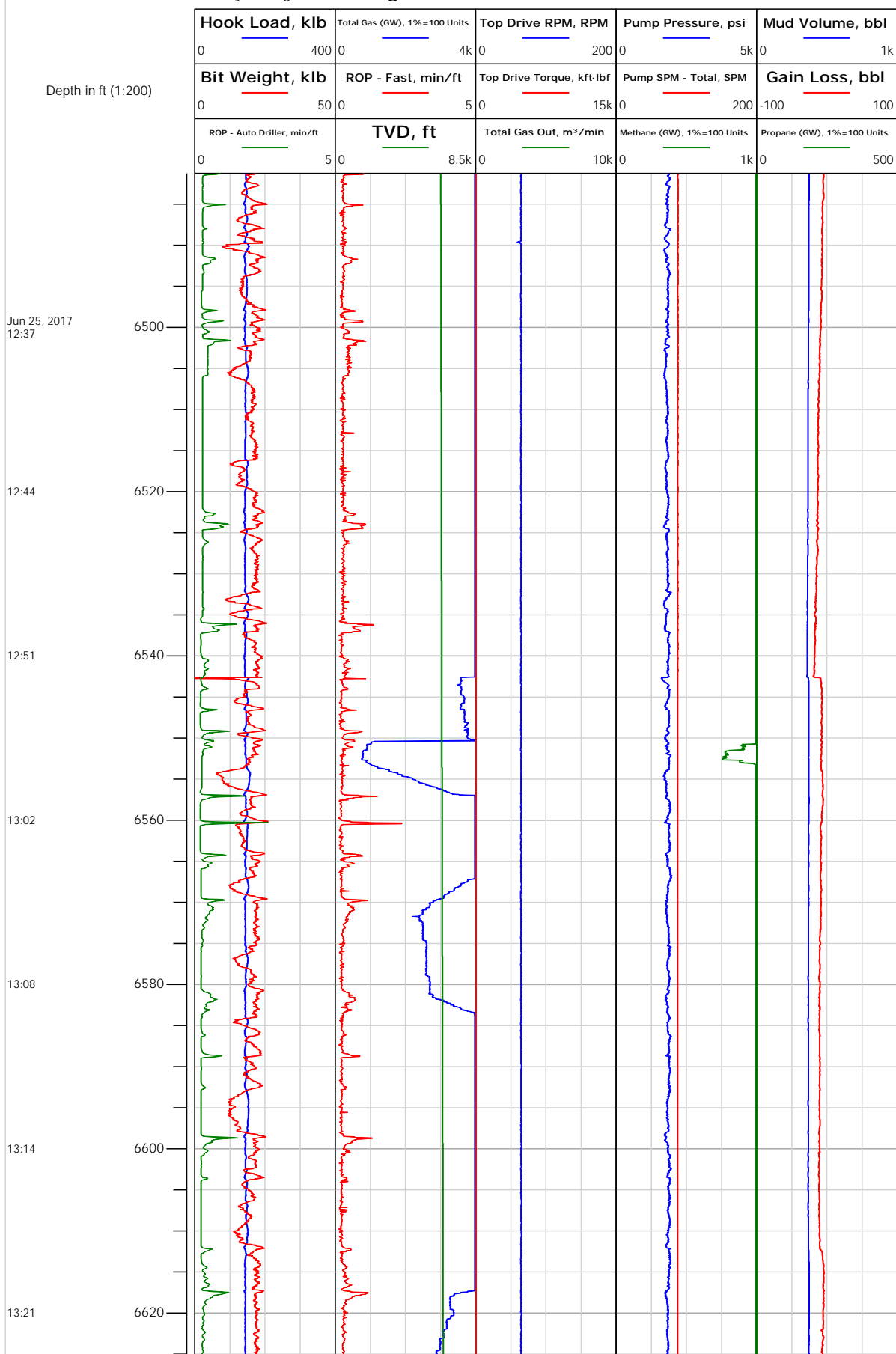
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Contractor: Helmerich & Payne Drlg Co

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Location:

Notes





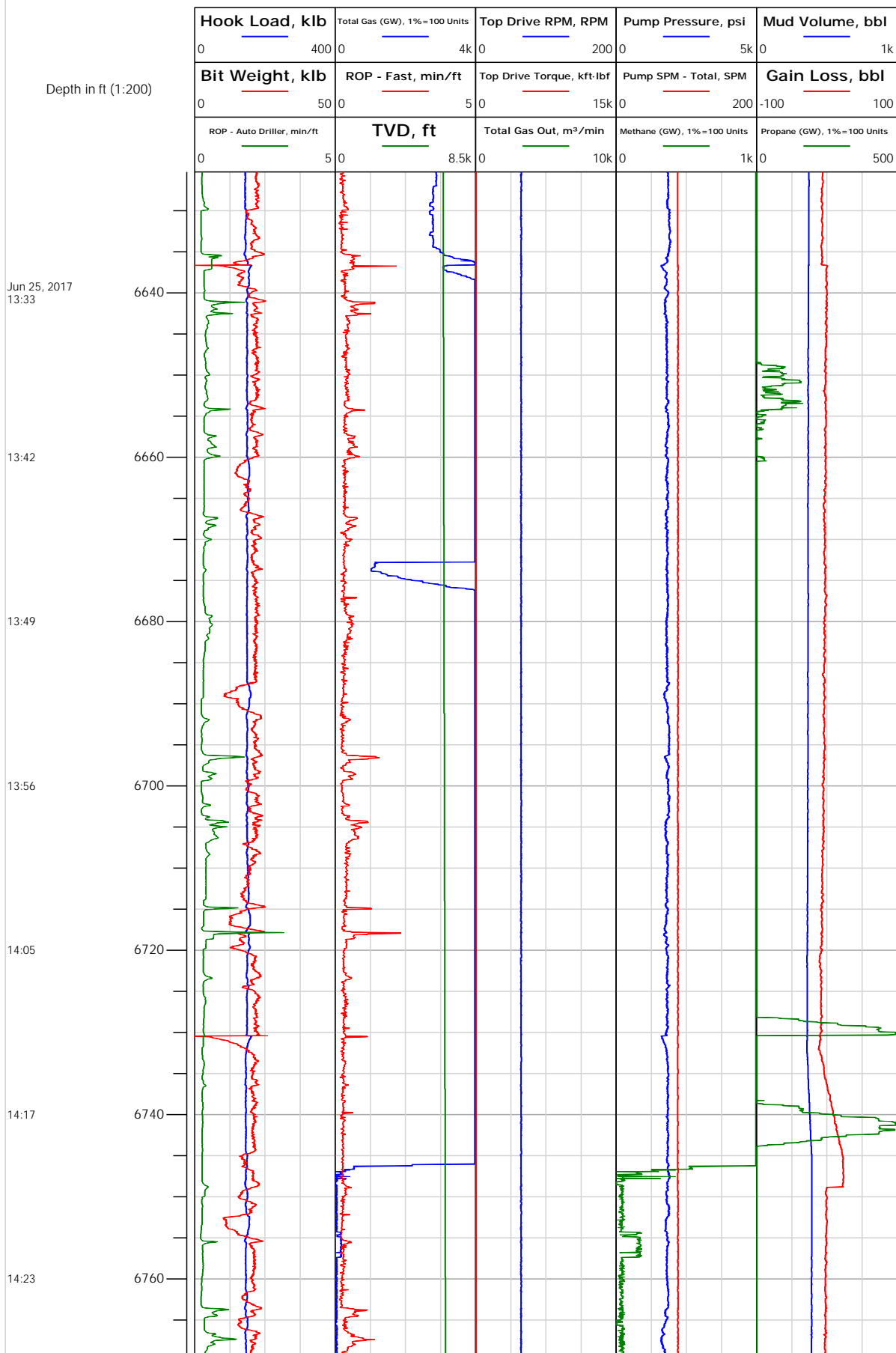
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Contractor: Helmerich & Payne Drlg Co

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Location:

Notes





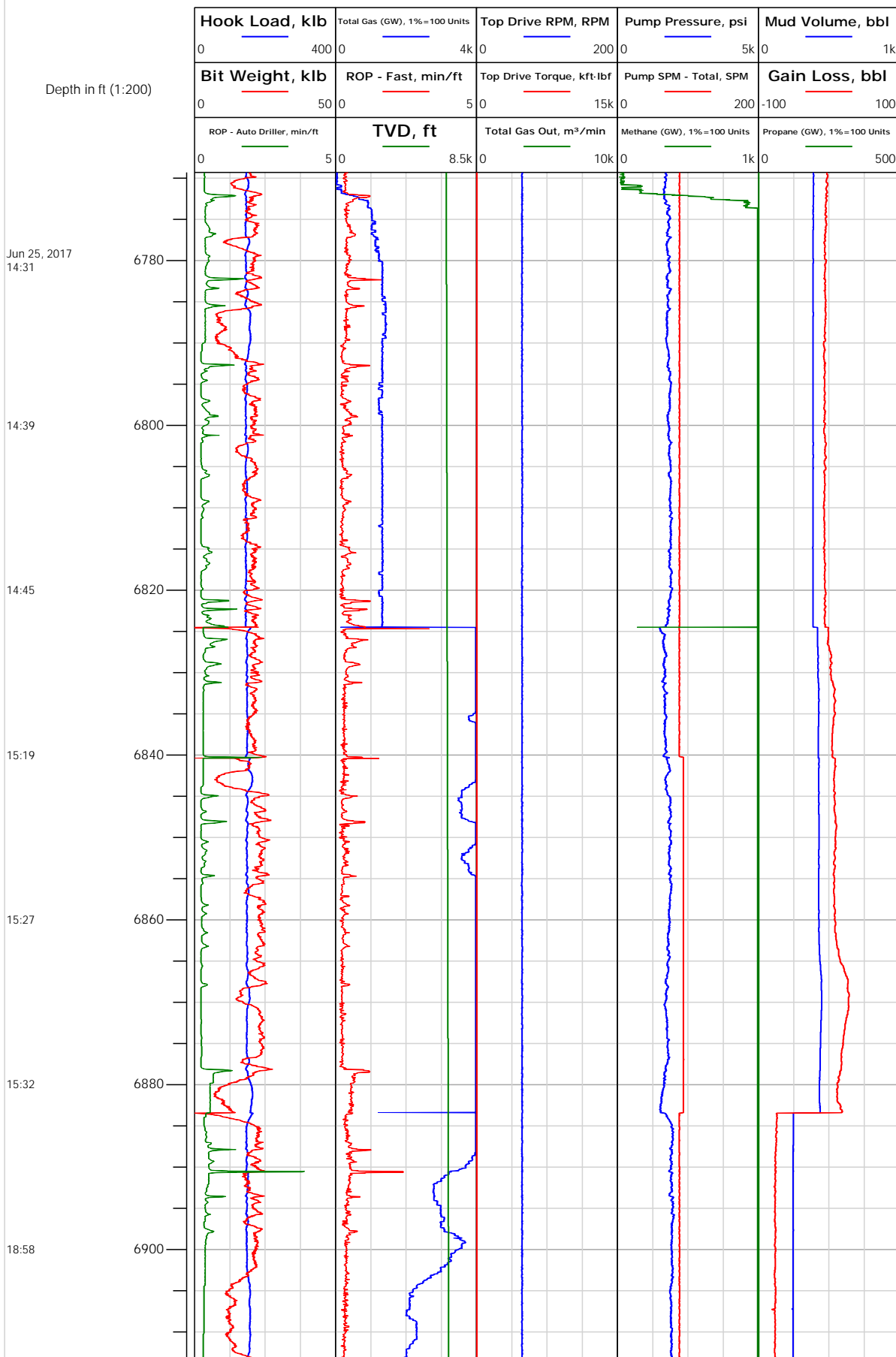
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Rig: 522

Location:

Notes





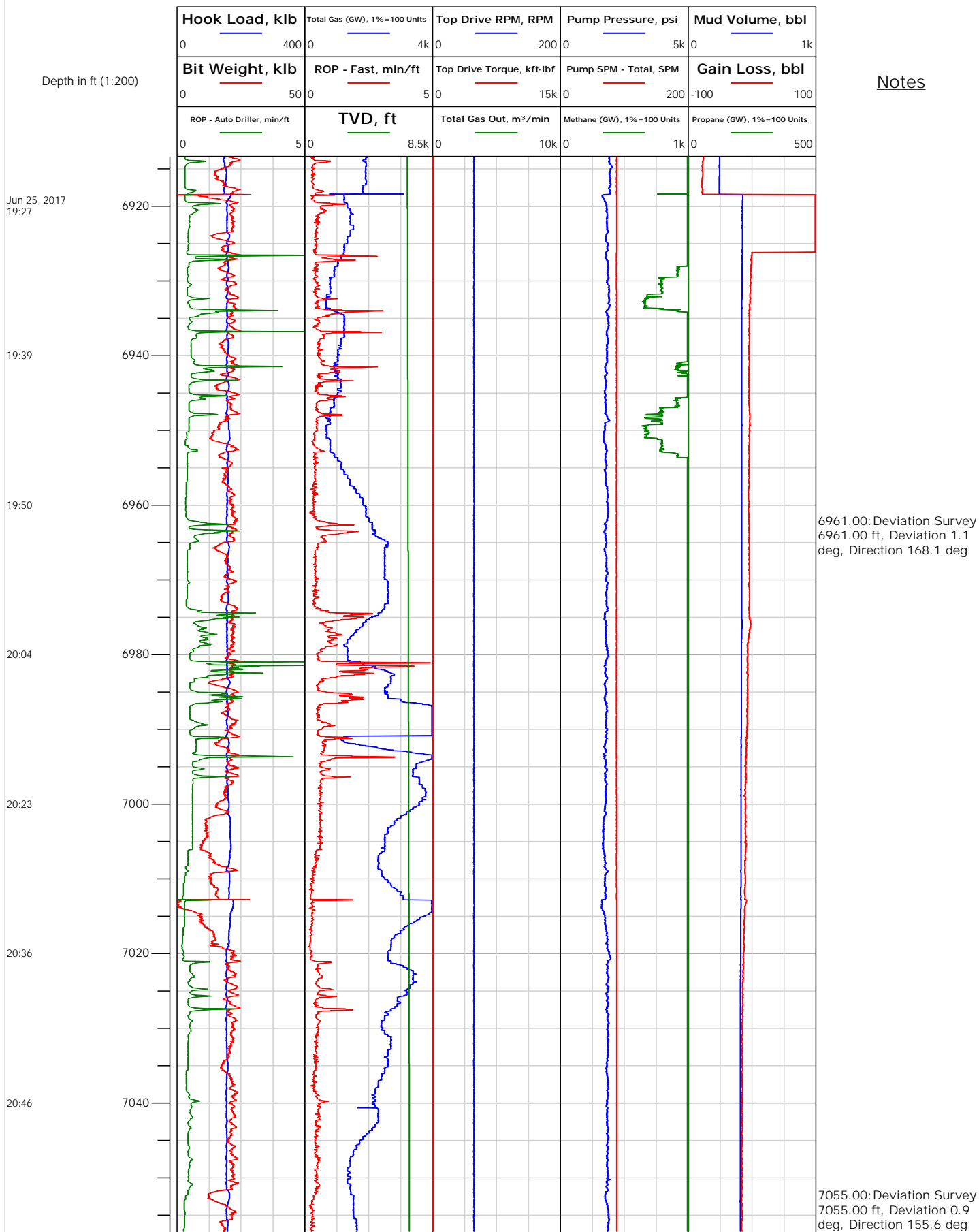
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Contractor: Helmerich & Payne Drlg Co

Well Name: Gunderson 20-05W
Rig: 522

Location:

Notes





Electronic Drilling Recorder

Operator: Laramie Energy
Contractor: Helmerich & Payne Drlg Co

Well Name: Gunderson 20-05W
Rig: 522

Location:

Notes

Jun 25, 2017
20:55

21:08

21:23

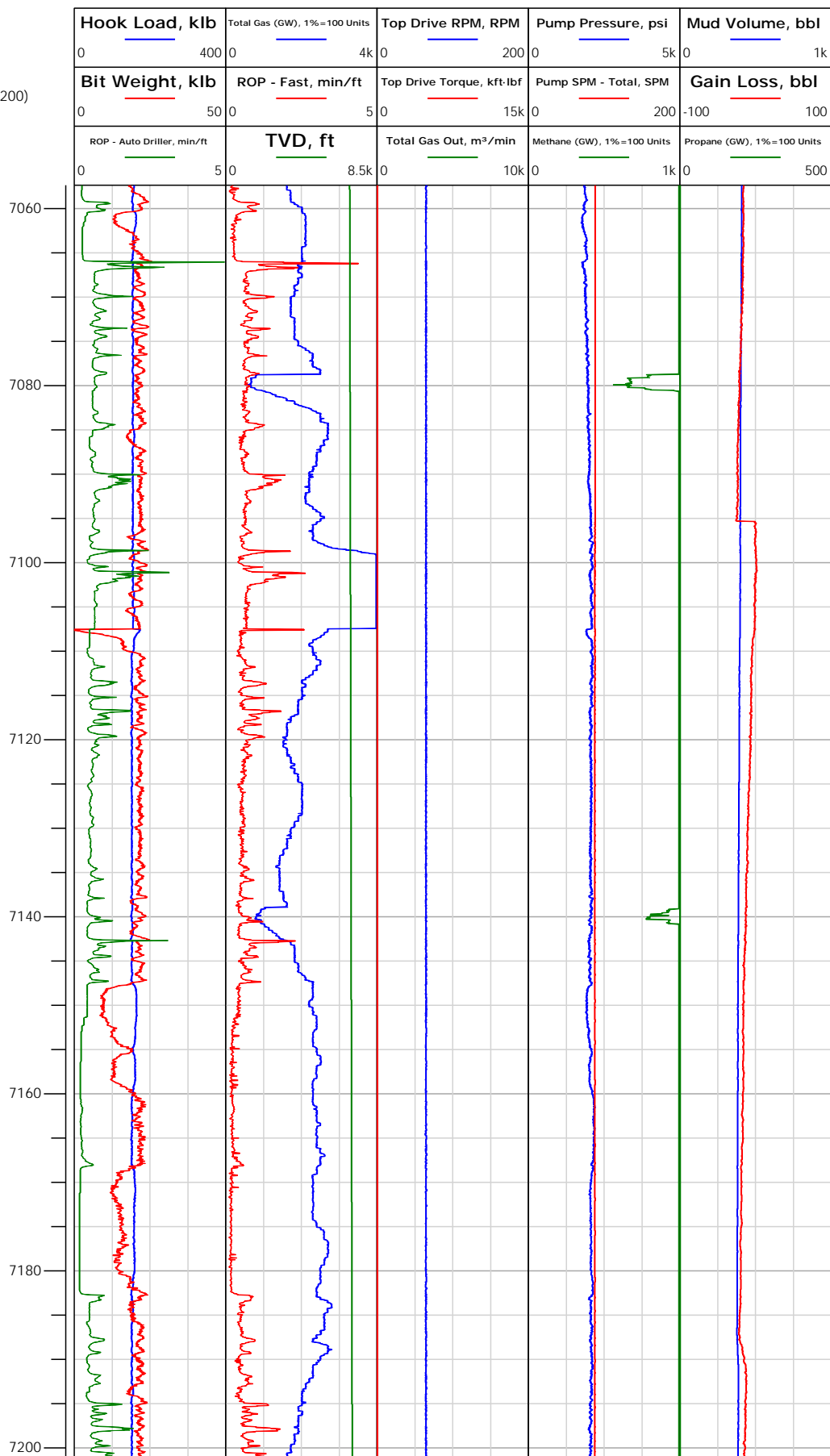
21:44

21:55

22:04

22:08

22:20



7107.54: Connection @
7107.55 ft

7150.00: Deviation Survey
7150.00 ft, Deviation 0.2
deg, Direction 258.4 deg



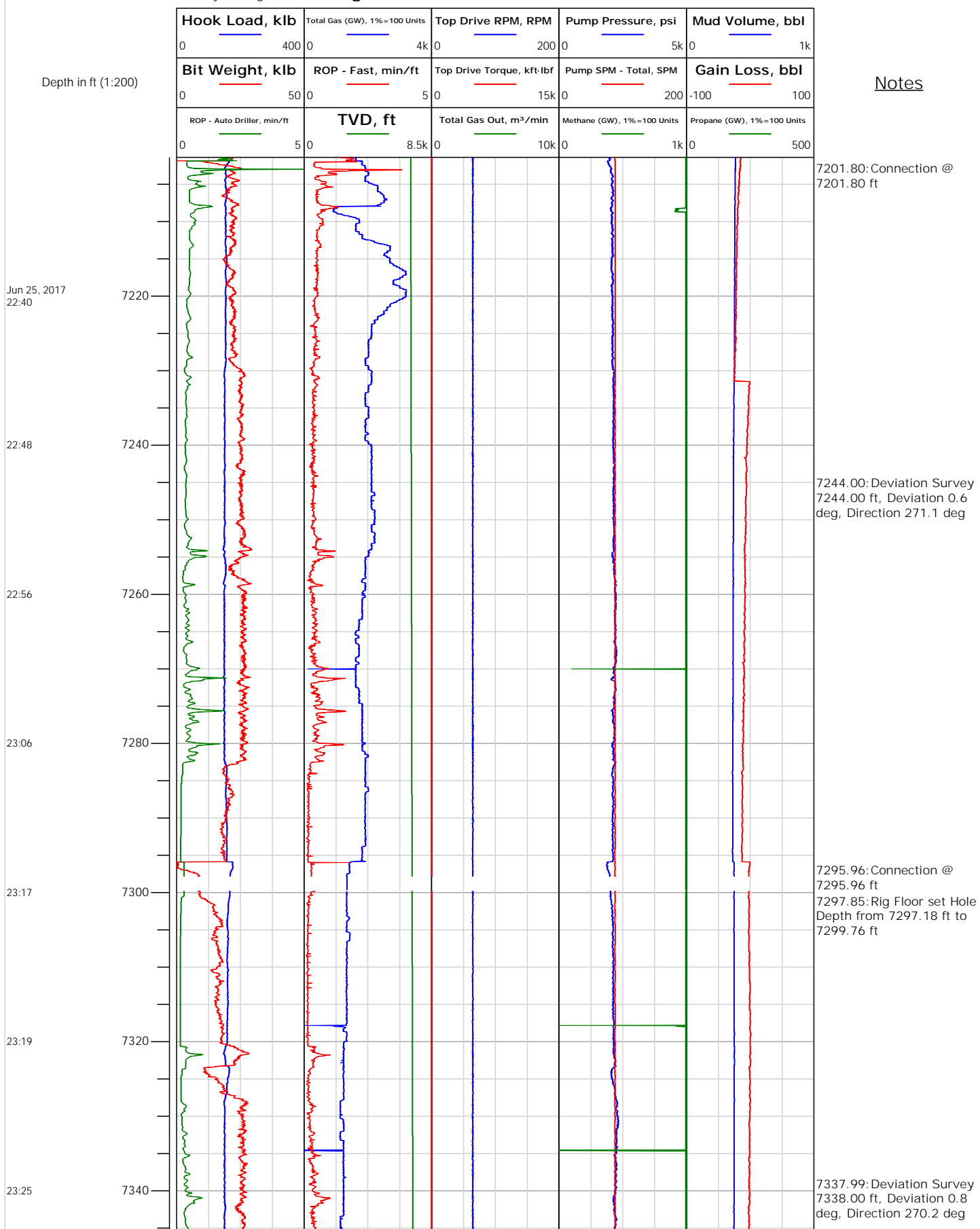
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Contractor: Helmerich & Payne Drlg Co

Well Name: Gunderson 20-05W
Rig: 522

Location:

Notes





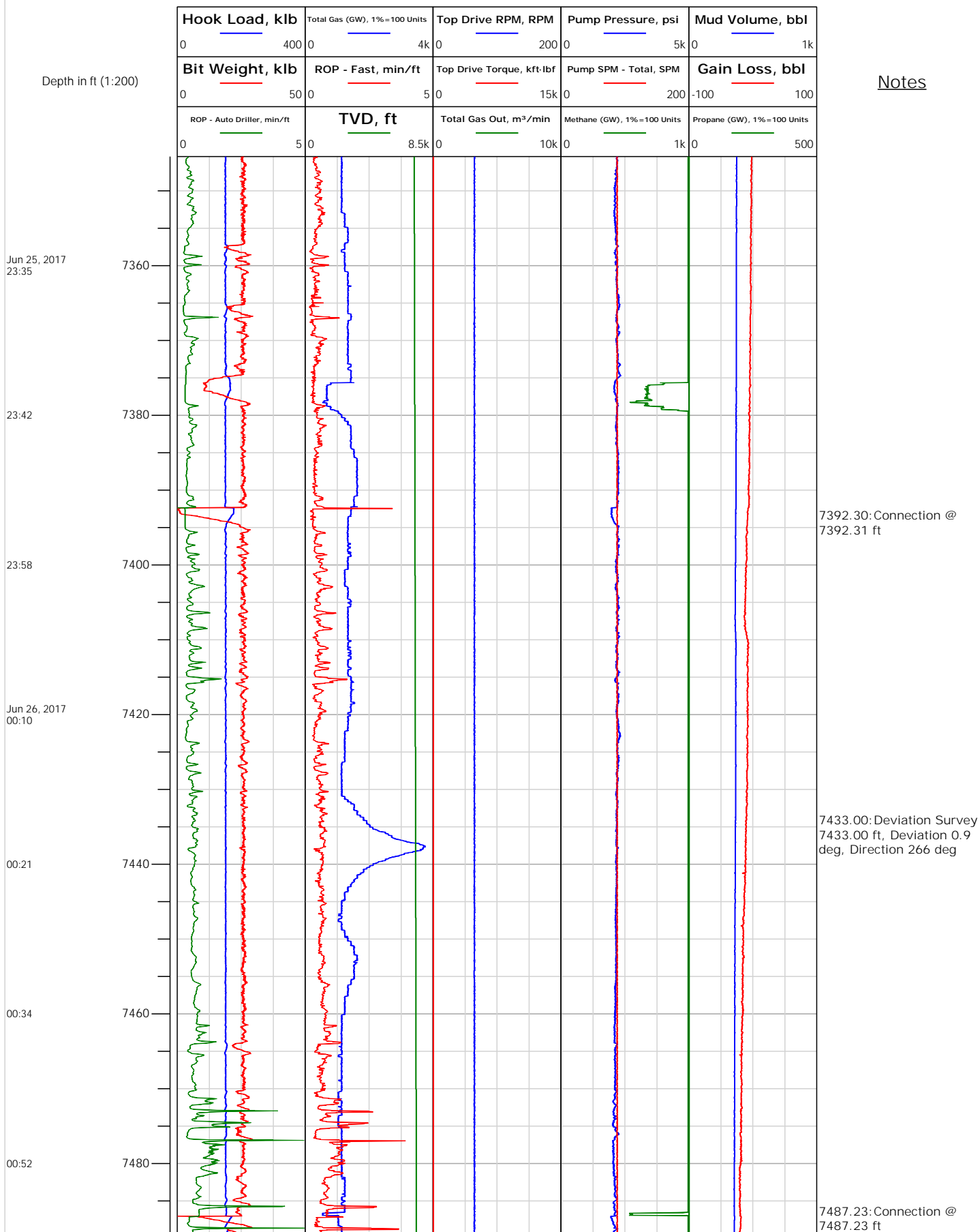
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Contractor: Helmerich & Payne Drlg Co

Well Name: Gunderson 20-05W
Rig: 522

Location:

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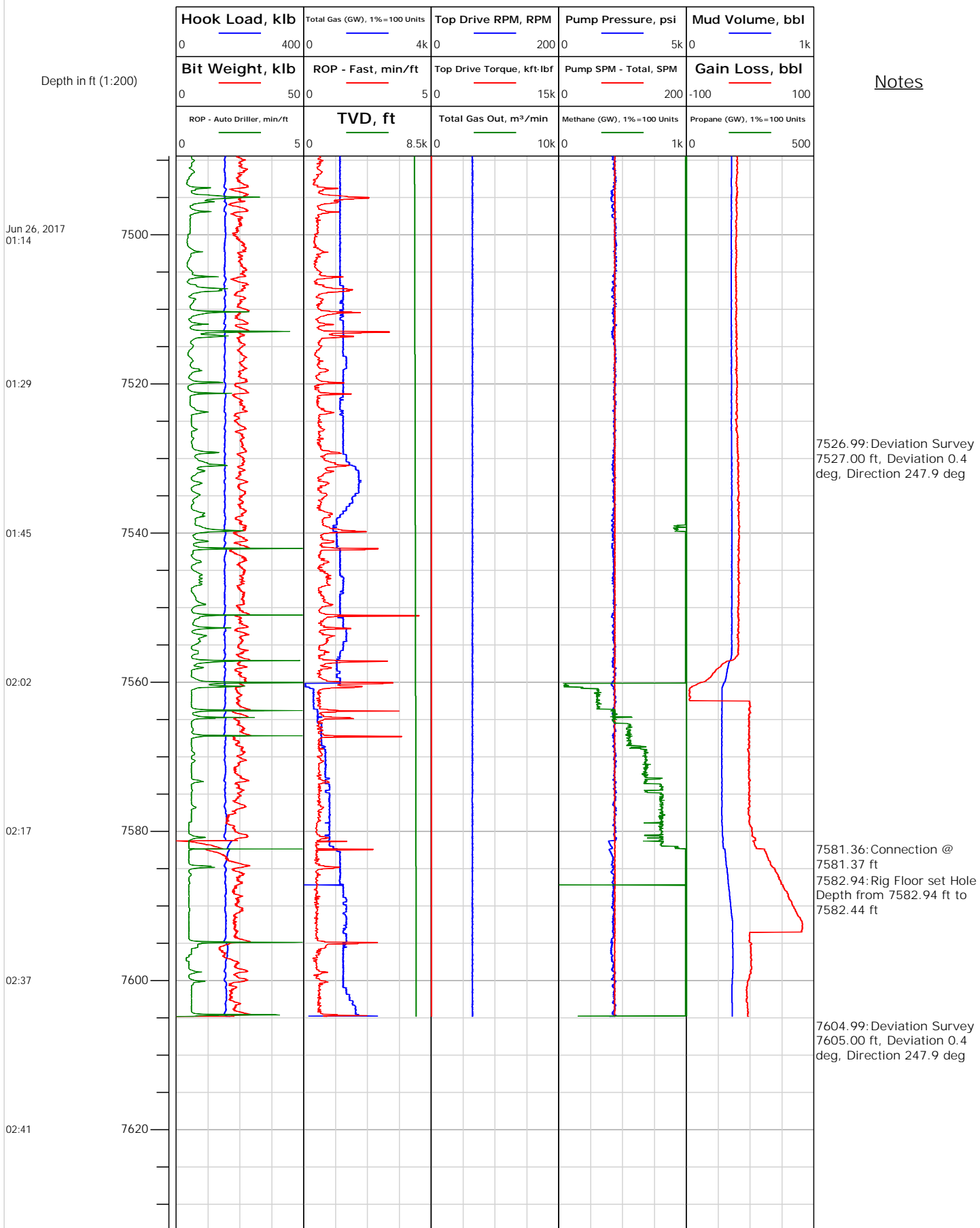
Electronic Drilling Recorder

Operator: Laramie Energy
Contractor: Helmerich & Payne Drlg Co

Well Name: Gunderson 20-05W
Rig: 522

Location:

Notes





Electronic Drilling Recorder

Operator: Laramie Energy
Contractor: Helmerich & Payne Drlg Co

Well Name: Gunderson 20-05W
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 4k	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, min/ft	TVD, ft	Total Gas Out, m ³ /min	Methane (GW), 1% = 100 Units	Propane (GW), 1% = 100 Units
0 5	0 8.5k	0 10k	0 1k	0 500