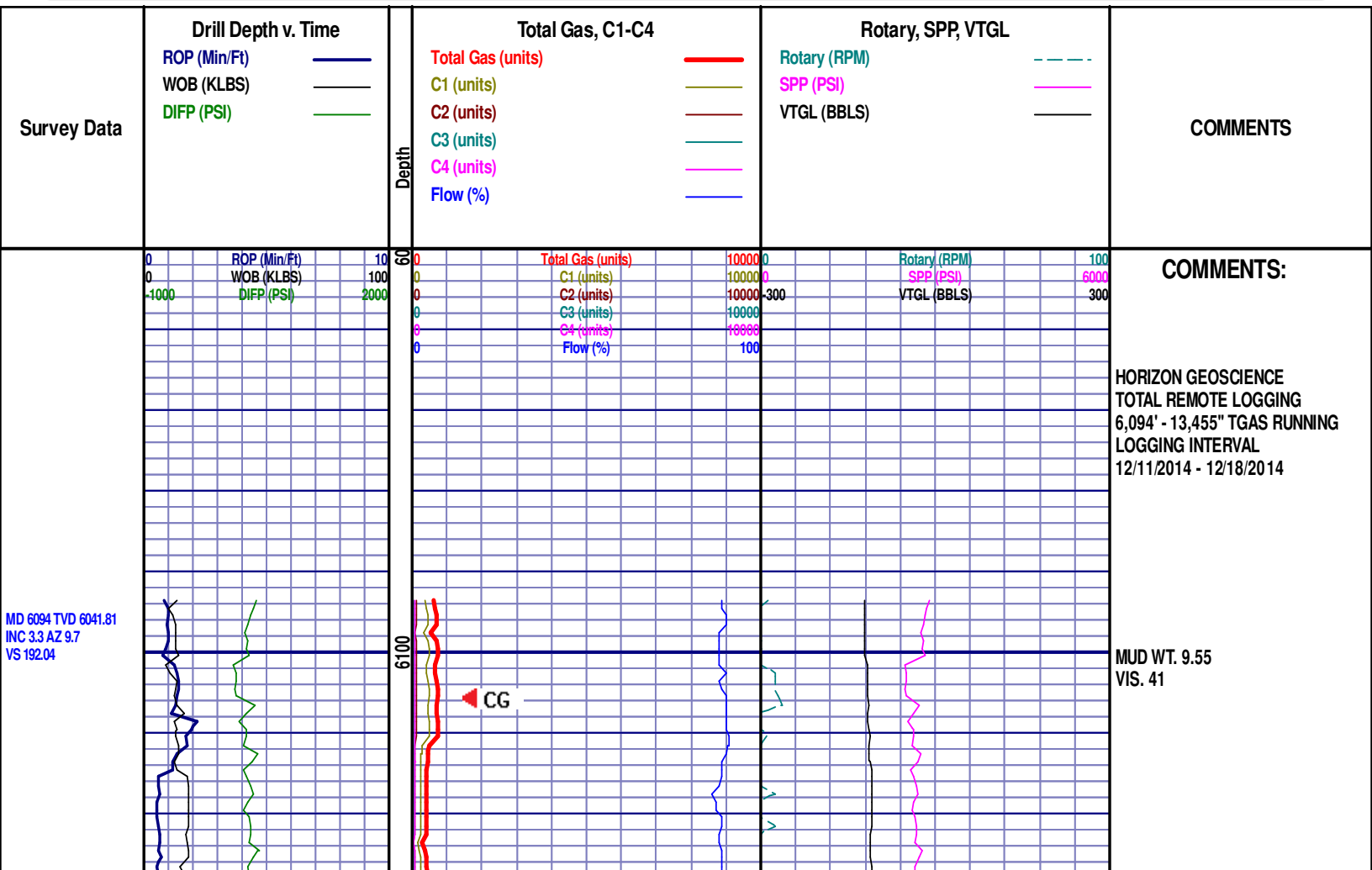




Denver Remote Management Center
13949 West Colfax Ave, Suite 205
Lakewood, Colorado 80401

Phone 303.325.3289
WWW.HZMUD.COM

Customer Information	Well Information
<p>Operator: PDC Energy Inc 1775 Sherman Street Suite 3000 Denver, CO 80203</p> <p>Geologist: Nathan Marolf PDC Energy, Inc.</p>	<p>Well Name: Chesnut 27K-421</p> <p>Location: NWSW SEC 27, 5N, 64W, 6TH 2,334' FNL x 1,118' FWL</p> <p>County: Weld State: Colorado</p>
Remote Logging Details	
<p>Logger: HORIZON DENVER REMOTE MANAGEMENT CENTER</p> <p>Log Interval: 6,094' MD to 13,455' MD</p> <p>Start Date: December 11, 2014</p> <p>Release Date: December 18, 2014</p>	<p>Drilling Rig: Ensign 123</p> <p>Total Depth: 13,455' MD</p> <p>TD Date: December 18, 2014</p> <p>Field : Wattenberg</p> <p>KB Elevation: 4,631'</p> <p>GR Elevation: 4,616'</p> <p>API Number: 05-123-40077-0000</p>



MD 6094 TVD 6041.81
INC 3.3 AZ 9.7
VS 192.04

MD 6139 TVD 6086.62
INC 7.1 AZ 8.9
VS 196.07

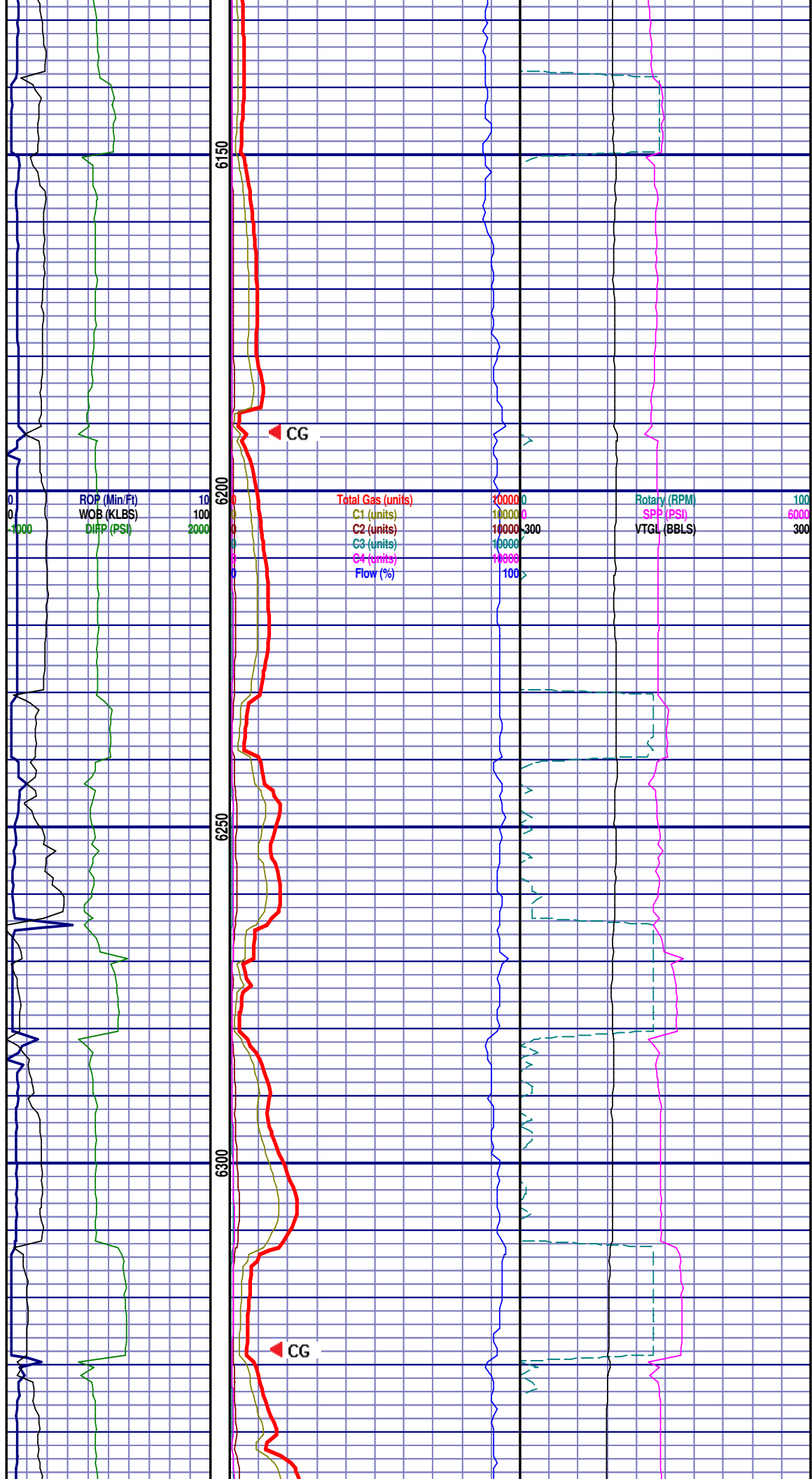
MD 6184 TVD 6130.93
INC 12.7 AZ 2.3
VS 203.76

MD 6229 TVD 6174.37
INC 17.5 AZ 359.6
VS 215.48

MD 6274 TVD 6217.14
INC 18.7 AZ 358.4
VS 229.46

MD 6319 TVD 6259.5
INC 20.7 AZ 356.1
VS 244.6

MUD WT. 9.60
VIS. 44



MD 6364 TVD 6300.98
INC 24.9 AZ 357.5
VS 262.01

MD 6409 TVD 6341.21
INC 28.3 AZ 359.7
VS 282.15

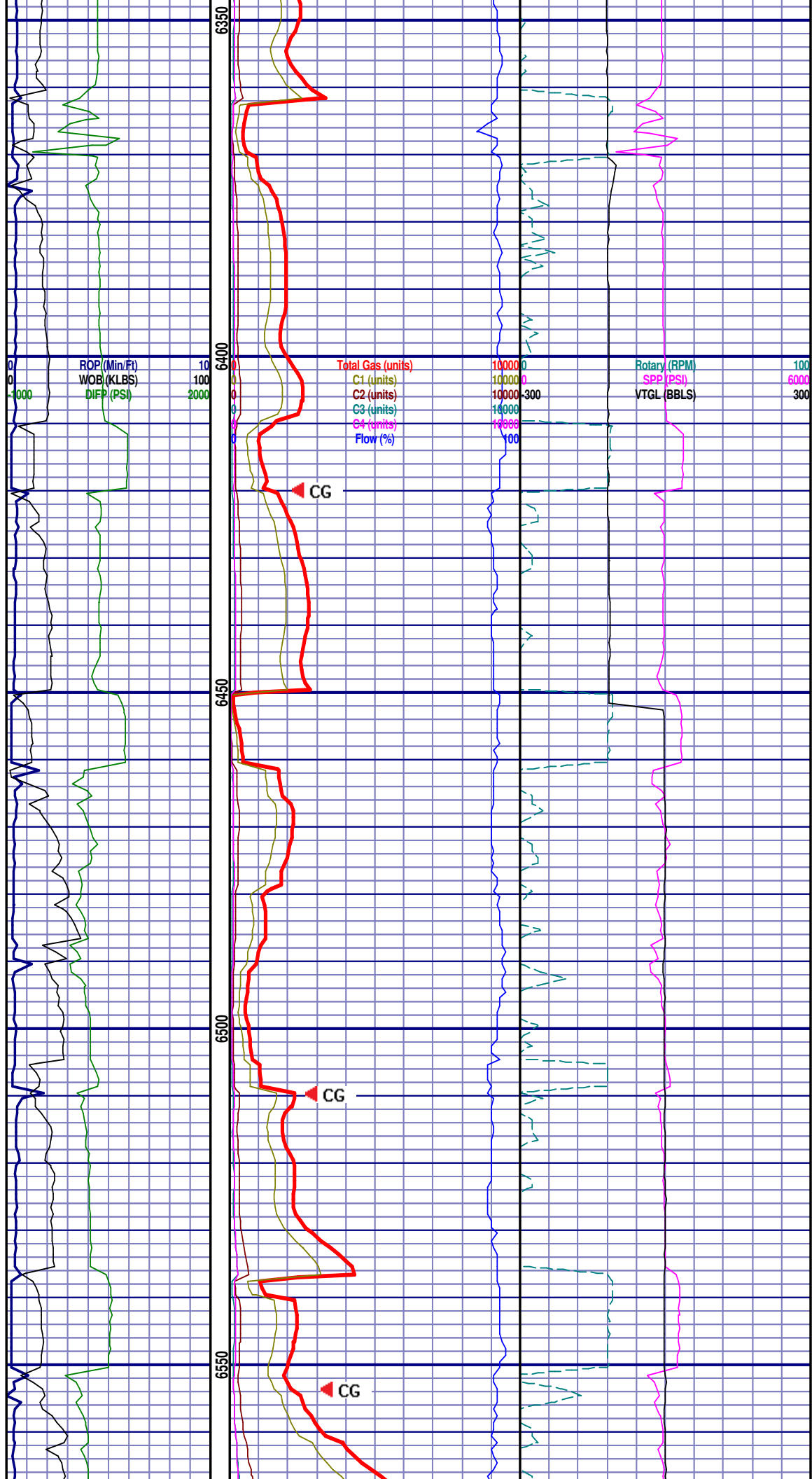
MD 6454 TVD 6380
INC 32.6 AZ 0.9
VS 304.95

MD 6499 TVD 6417.84
INC 32.9 AZ 0.8
VS 329.29

MD 6544 TVD 6454.81
INC 36.6 AZ 2.2
VS 354.92

MUD WT. 9.75
VIS. 43

MUD WT. 9.75
VIS. 43



MD 6589 TVD 6490.37
INC 39 AZ 1.2
VS 382.49

MD 6634 TVD 6524.74
INC 41.4 AZ 359.4
VS 411.53

MD 6679 TVD 6557.23
INC 46.1 AZ 358.3
VS 442.63

MD 6724 TVD 6587.04
INC 50.9 AZ 357.5
VS 476.3

MD 6769 TVD 6614.56
INC 53.7 AZ 356.8
VS 511.86



MUD WT. 9.80
VIS. 44

MUD WT. 9.90
VIS. 42

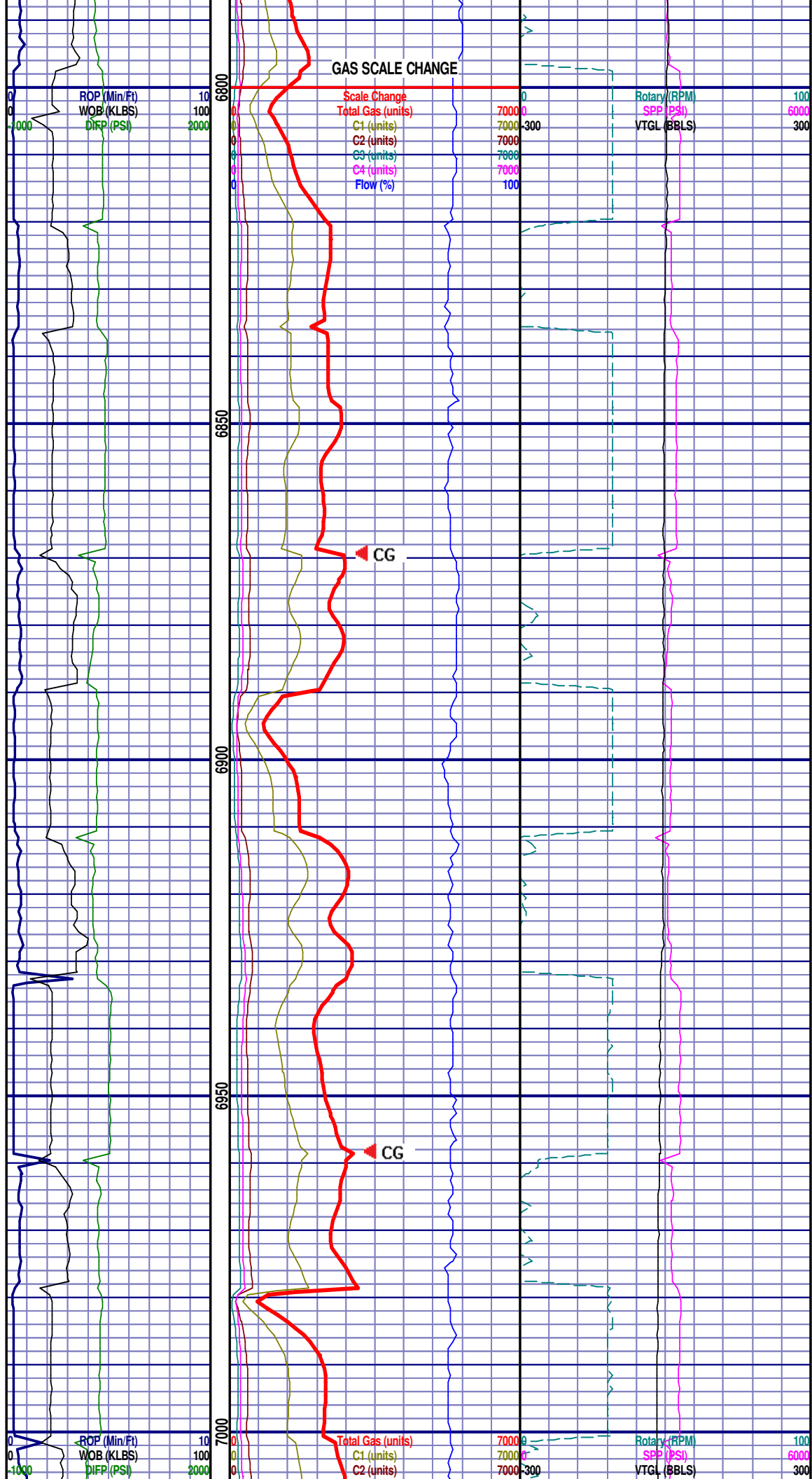
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INC 56.8 AZ 357.4
VS 548.78

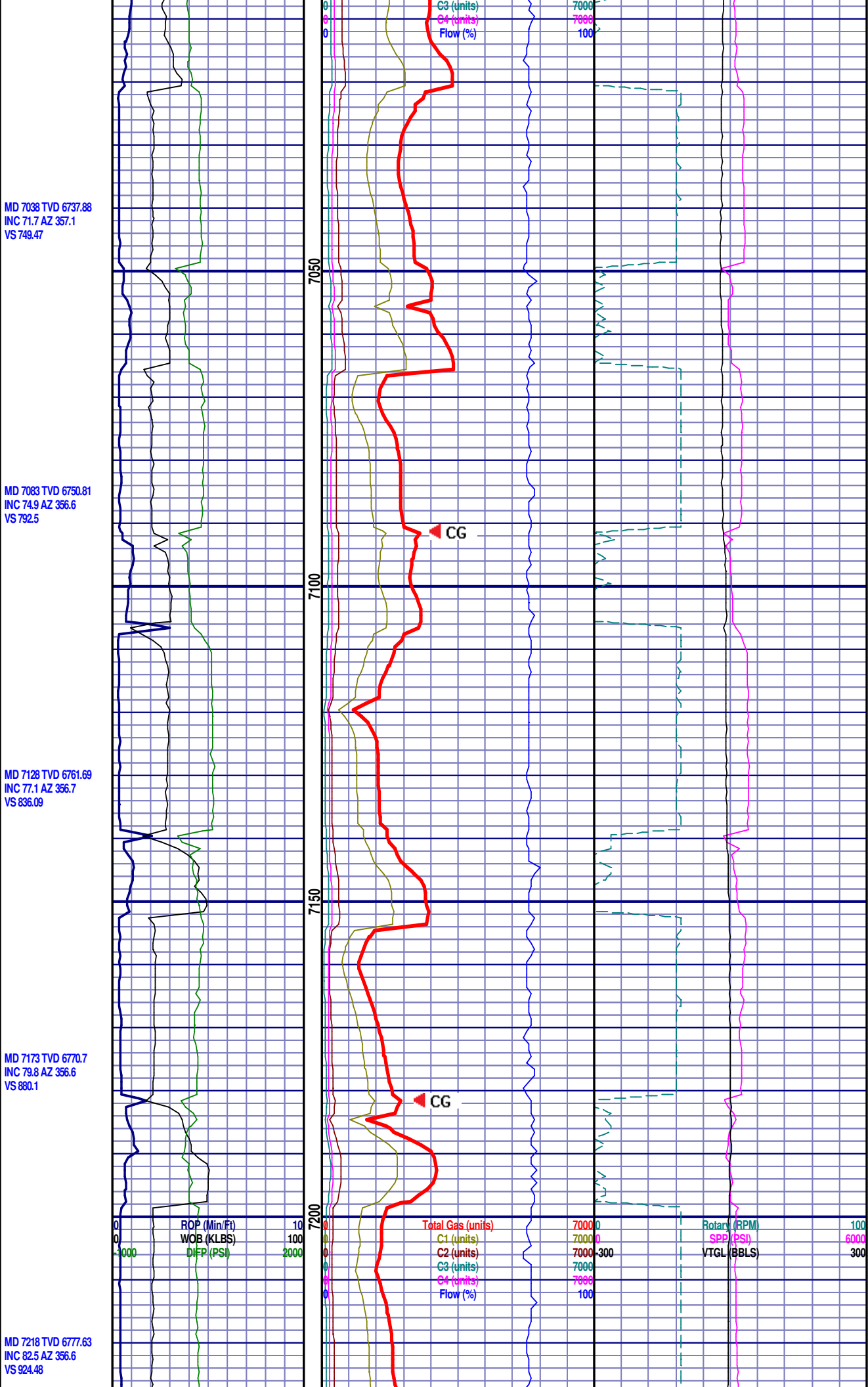
MD 6859 TVD 6664.02
INC 59.3 AZ 357.7
VS 586.93

MD 6903 TVD 6685.48
INC 62.3 AZ 357.8
VS 625.3

MD 6948 TVD 6705.27
INC 65.5 AZ 358.6
VS 665.69

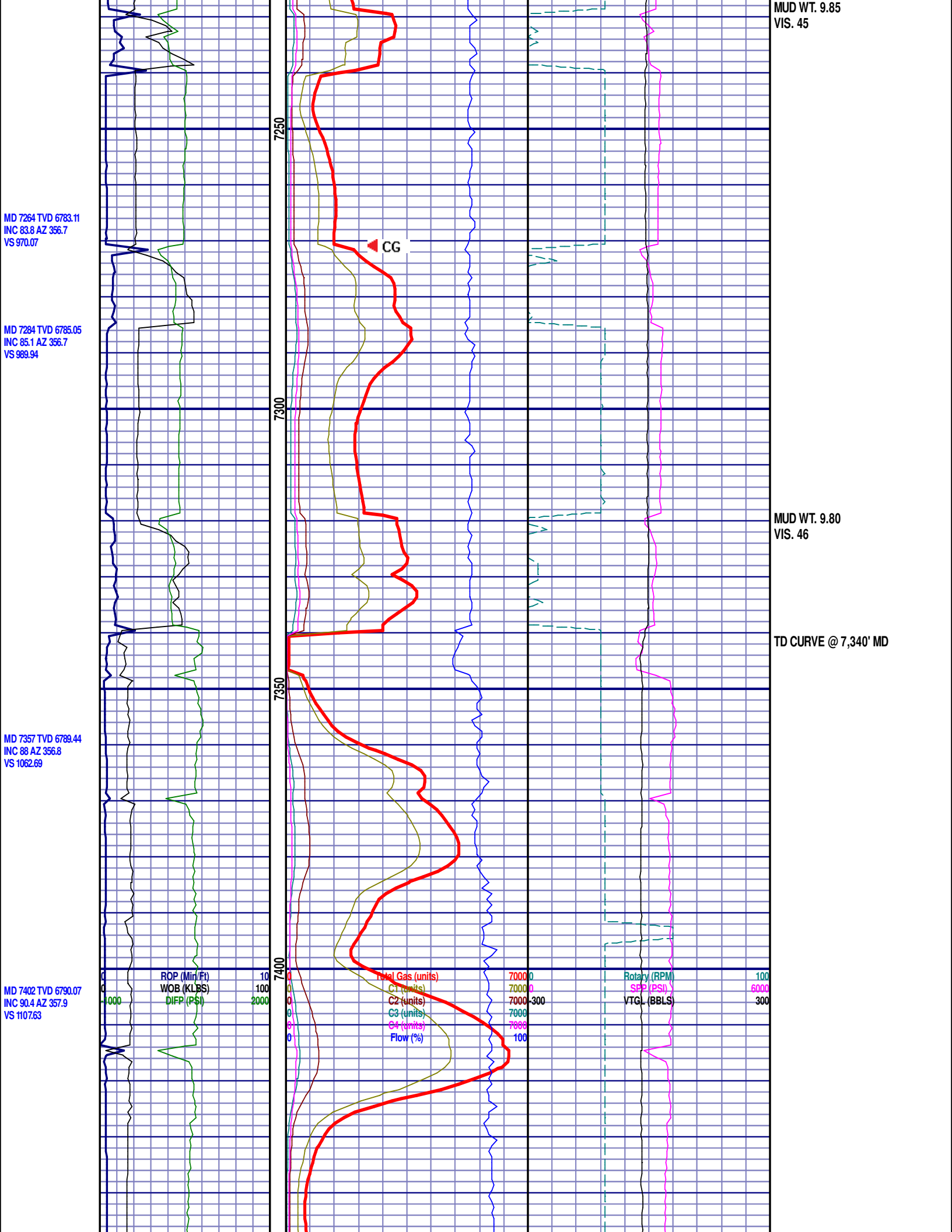
MD 6993 TVD 6722.71
INC 68.9 AZ 358.1
VS 707.15





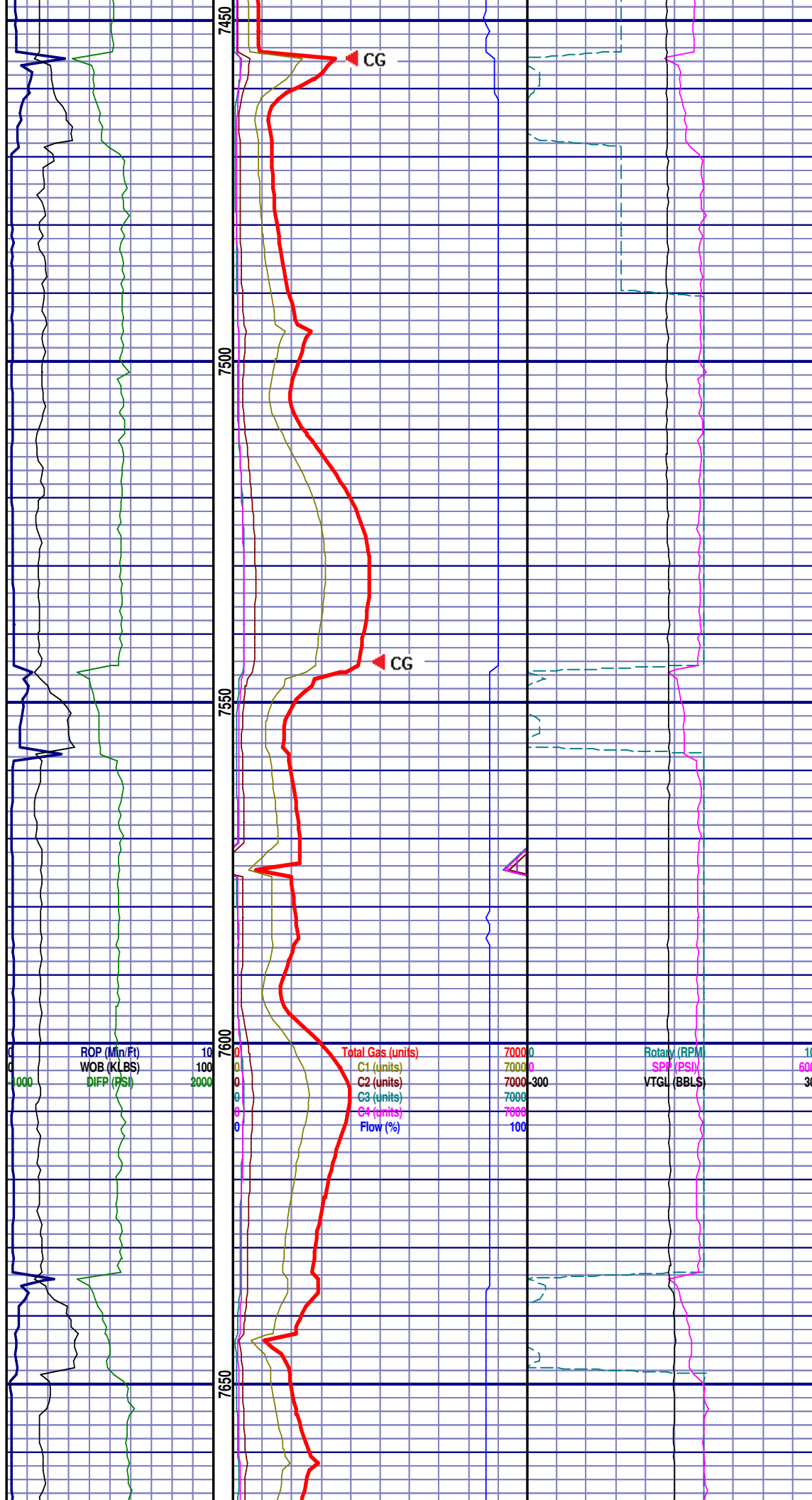
MUD WT. 10.00
VIS. 42

MUD WT. 9.90
VIS. 44



MD 7492 TVD 6790.77
INC 88.7 AZ 358.2
VS 1197.57

MD 7582 TVD 6792.5
INC 89.1 AZ 359.4
VS 1287.53



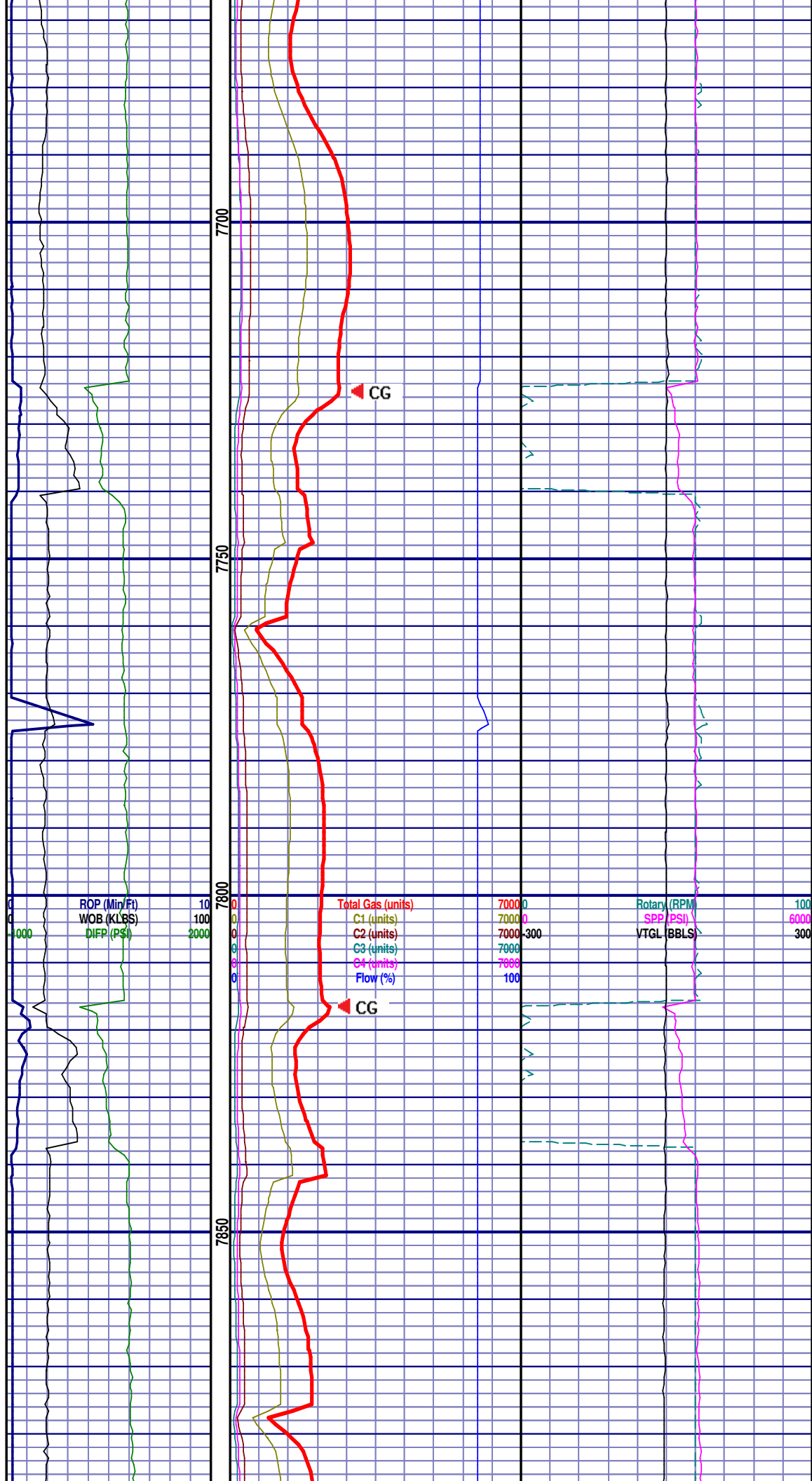
MUD WT. IN 9.80/OUT 9.90
VIS. IN 41/OUT 42

MUD WT. IN 10.00/OUT 9.90
VIS. IN 41/OUT 40

MD 7672 TVD 6793.92
INC 89.1 AZ 359.7
VS 1377.52

MD 7762 TVD 6795.8
INC 88.5 AZ 359.7
VS 1467.5

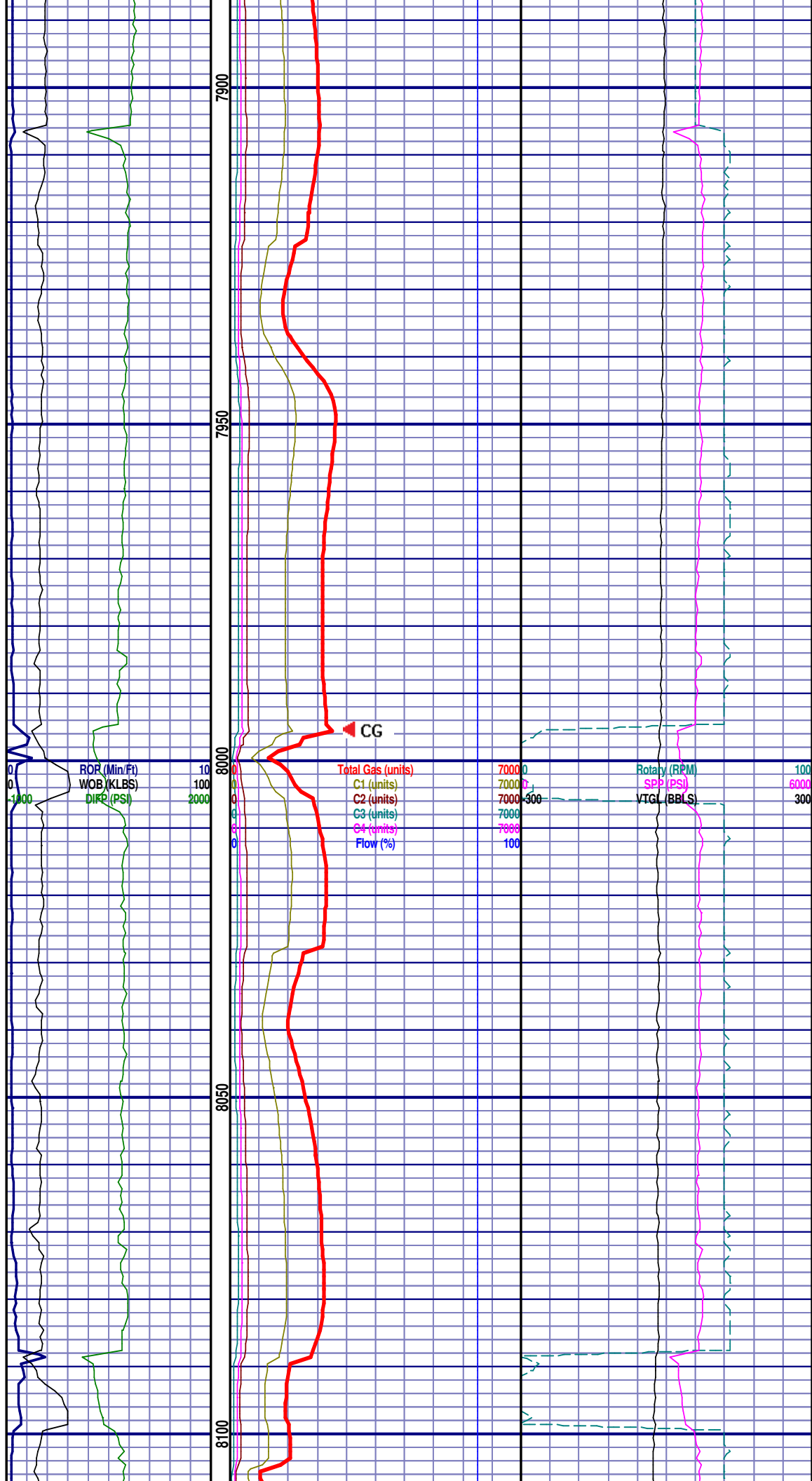
MD 7852 TVD 6796.19
INC 91 AZ 2.1
VS 1557.47



MUD WT. IN 10.00/OUT 9.95
VIS. IN 43/OUT 42

MD 7942 TVD 6794.15
INC 91.6 AZ 2.1
VS 1647.39

MD 8035 TVD 6791.8
INC 91.3 AZ 2.2
VS 1740.29



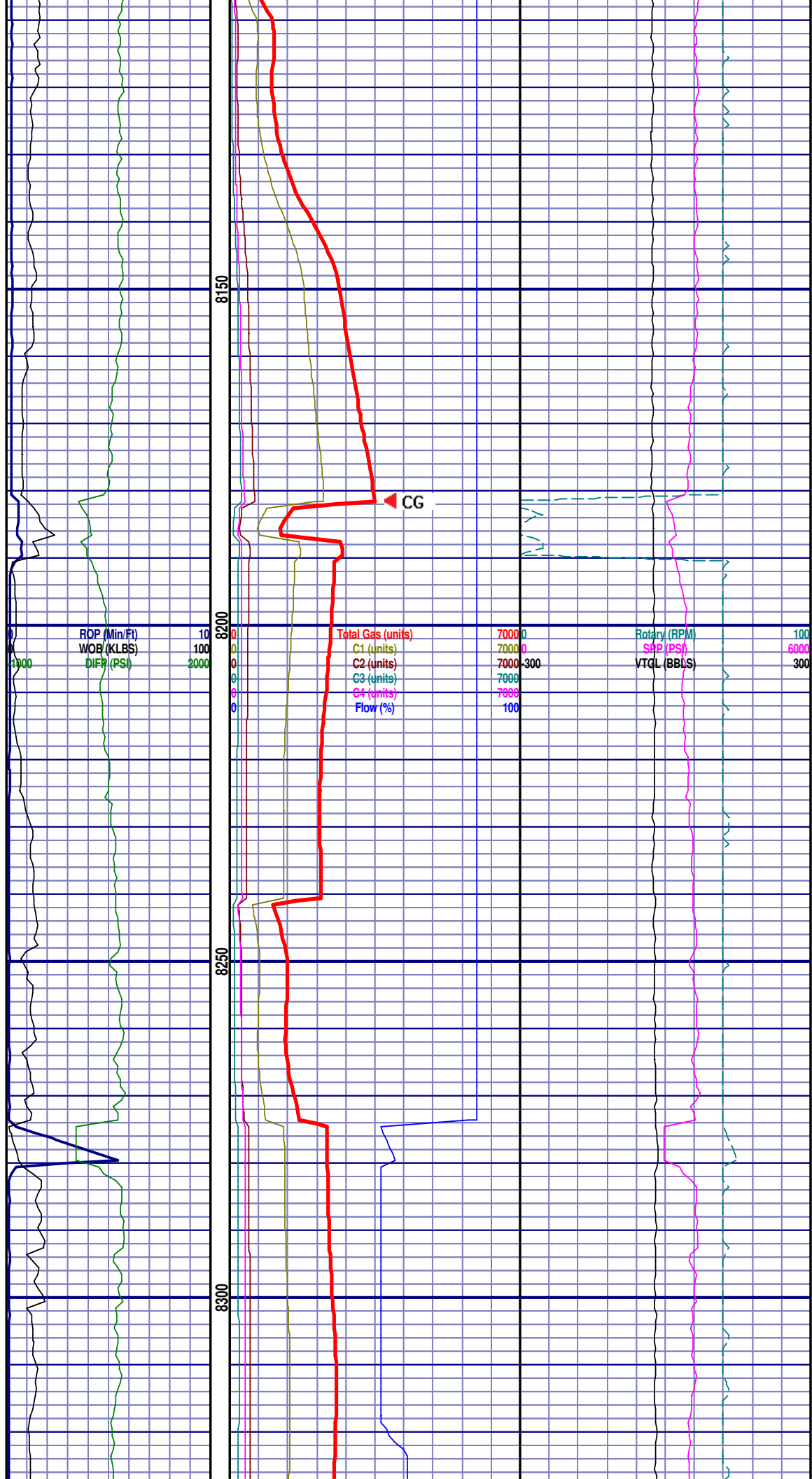
MUD WT. IN 10.10/OUT 10.00
VIS. IN 43/OUT 41

MUD WT. IN 10.10/OUT 10.05
VIS. IN 43/OUT 41

MD 8129 TVD 6790.32
INC 90.5 AZ 2.2
VS 1834.21

MD 8222 TVD 6789.59
INC 90.4 AZ 3.3
VS 1927.1

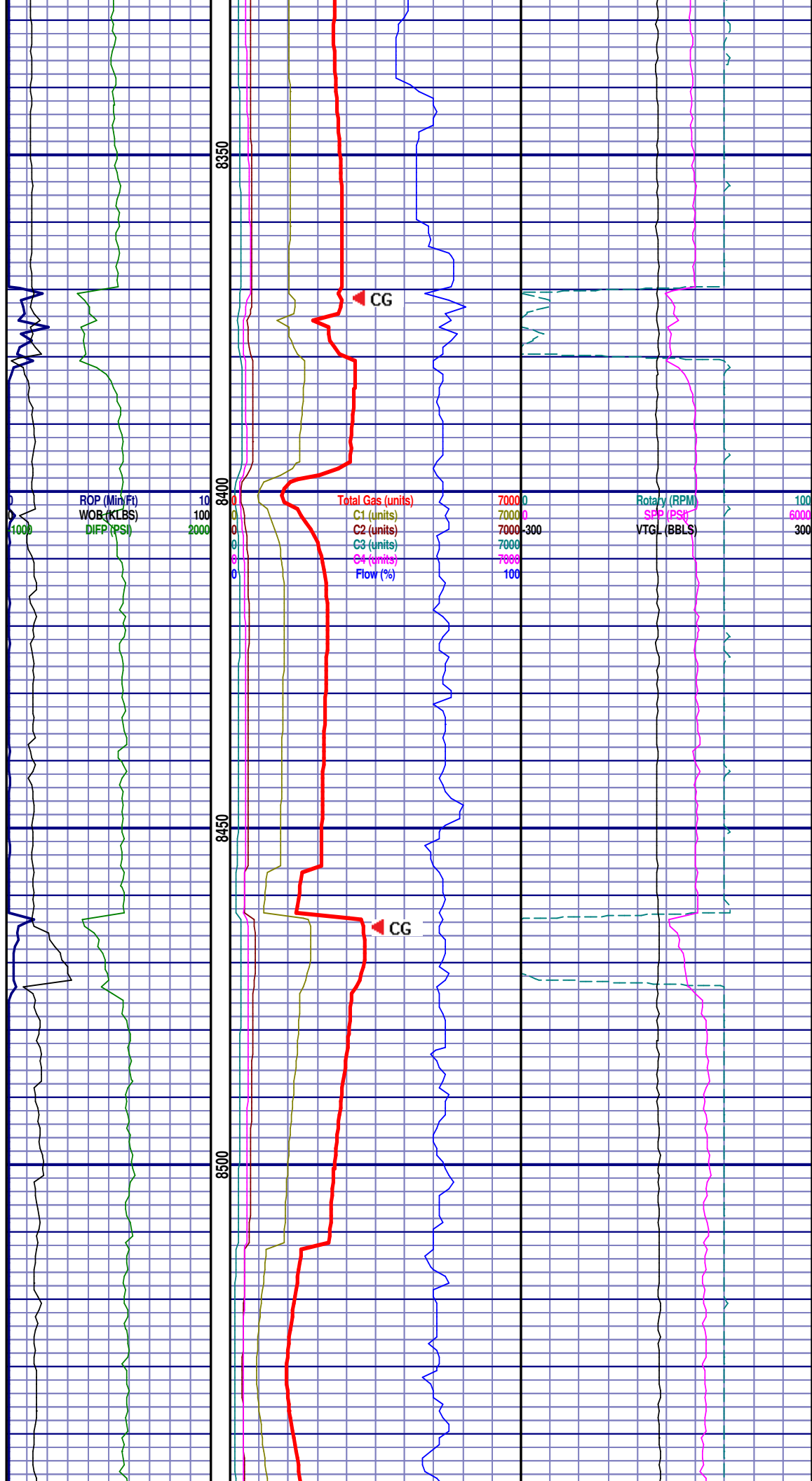
MD 8316 TVD 6788.69
INC 90.7 AZ 3.8
VS 2020.91



MUD WT. IN 10.00/OUT 9.90
VIS. IN 42/OUT 40

MD 8406 TVD 6788.14
INC 90 AZ 3.6
VS 2110.72

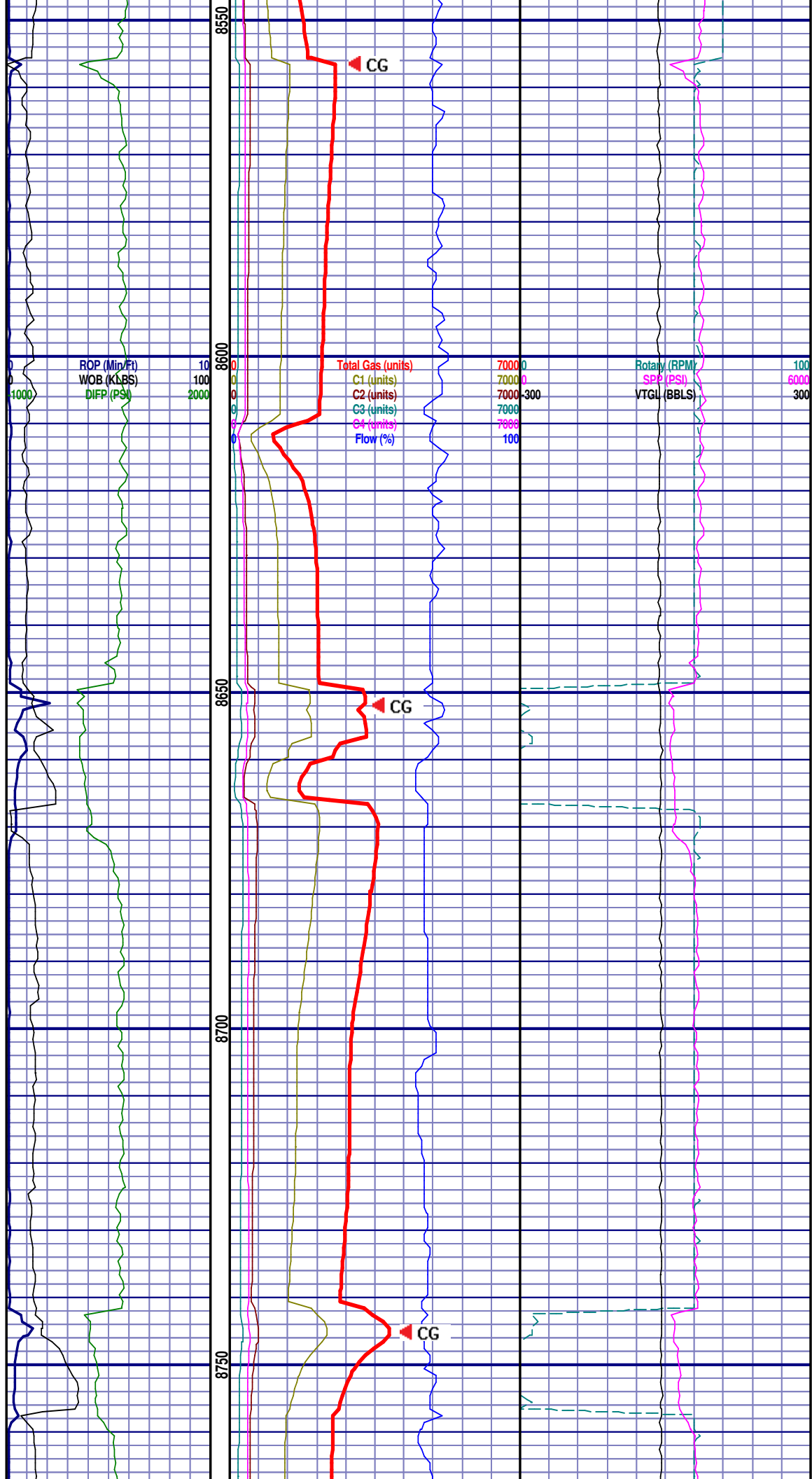
MD 8503 TVD 6789.32
INC 88.6 AZ 1.2
VS 2207.62



MUD WT. IN 9.95/OUT 9.90
VIS. IN 43/OUT 42

MD 8597 TVD 6792.11
INC 88 AZ 0.4
VS 2301.57

MD 8690 TVD 6794.57
INC 88.9 AZ 359.8
VS 2394.53



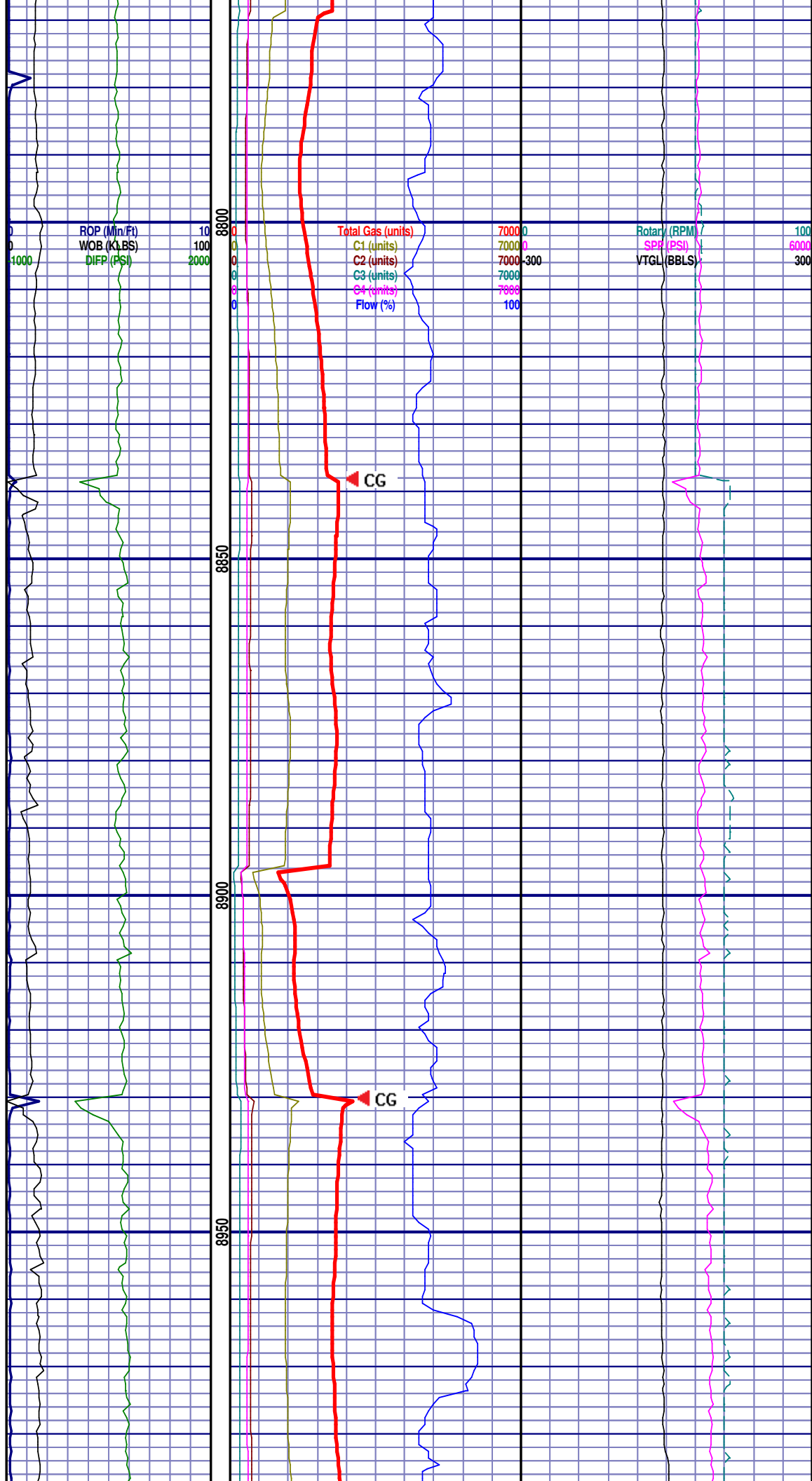
MUD WT. IN 9.90/OUT 9.90
VIS. IN 42/OUT 40

MD 8784 TVD 6794.57
INC 91.1 AZ 0.9
VS 2488.52

MD 8877 TVD 6792.95
INC 90.9 AZ 0.6
VS 2581.5

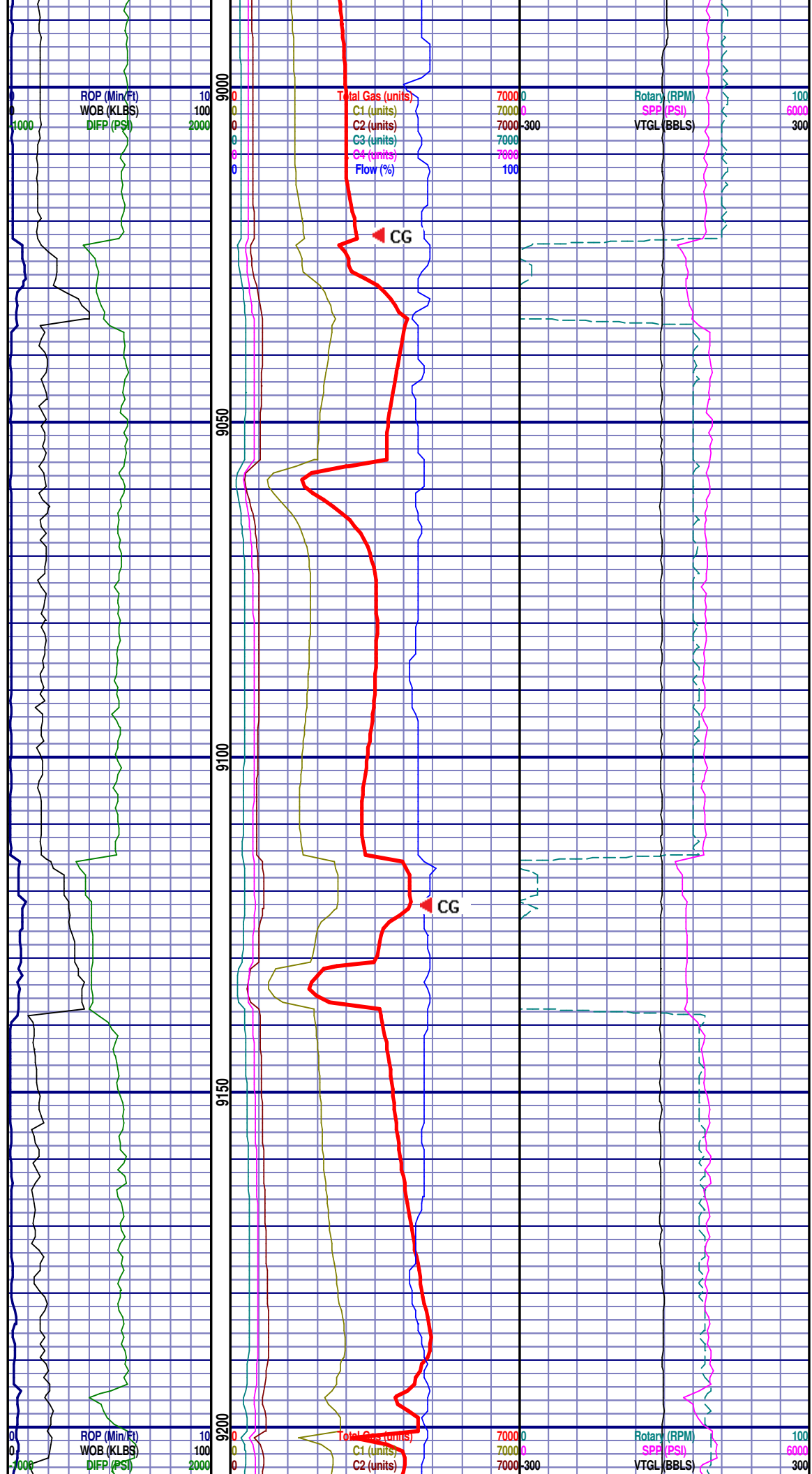
MD 8970 TVD 6792.38
INC 89.8 AZ 358.8
VS 2674.49

MUD WT. IN 9.5/OUT 9.85
VIS. IN 42/OUT 40



MD 9064 TVD 6793.28
INC 89.1 AZ 357.3
VS 2768.43

MD 9158 TVD 6795.01
INC 88.8 AZ 358.2
VS 2862.34

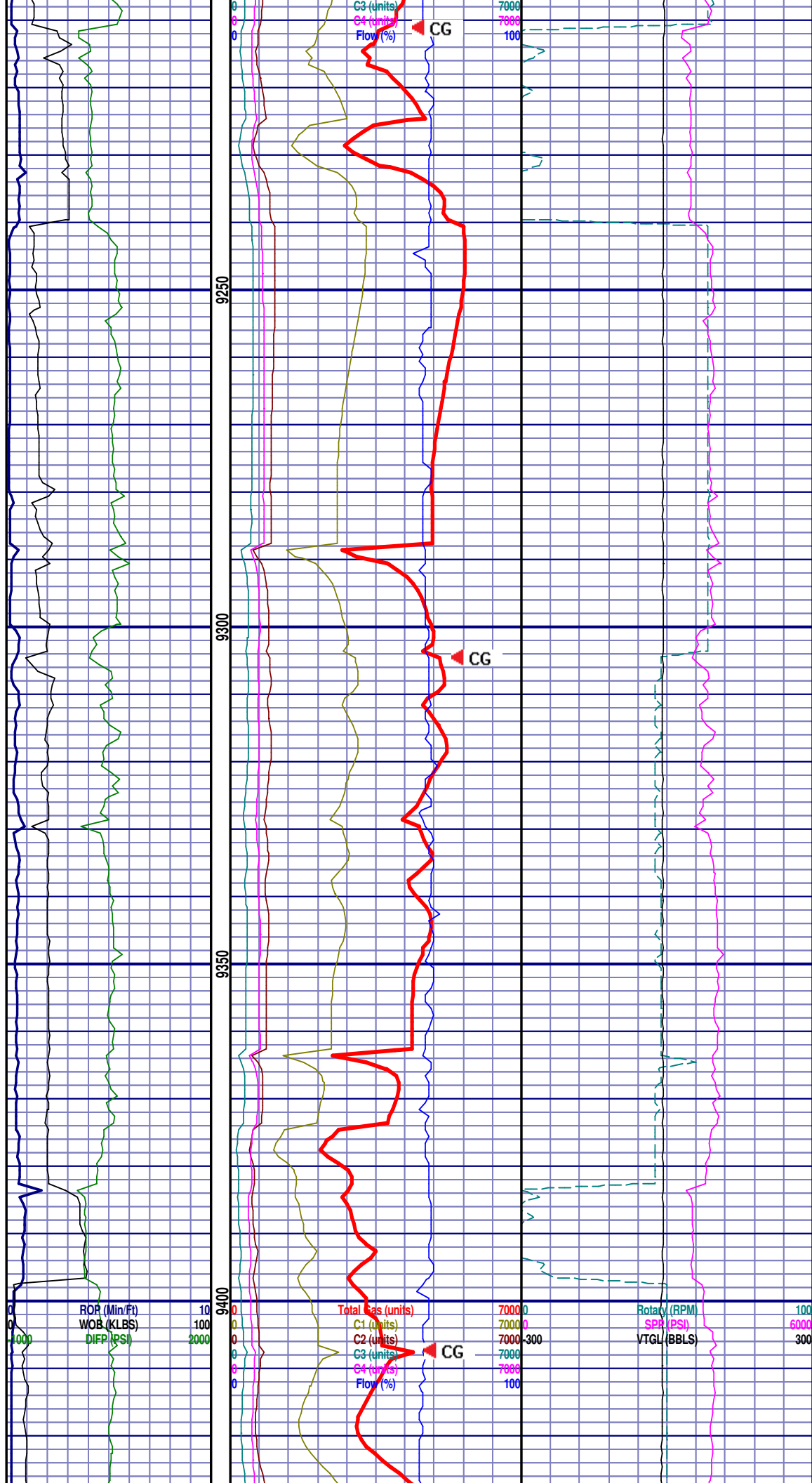


MD 9251 TVD 6795.49
INC 90.6 AZ 359.7
VS 2955.32

MD 9344 TVD 6794.44
INC 90.7 AZ 359.3
VS 3048.31

MUD WT. 9.90
VIS. 45

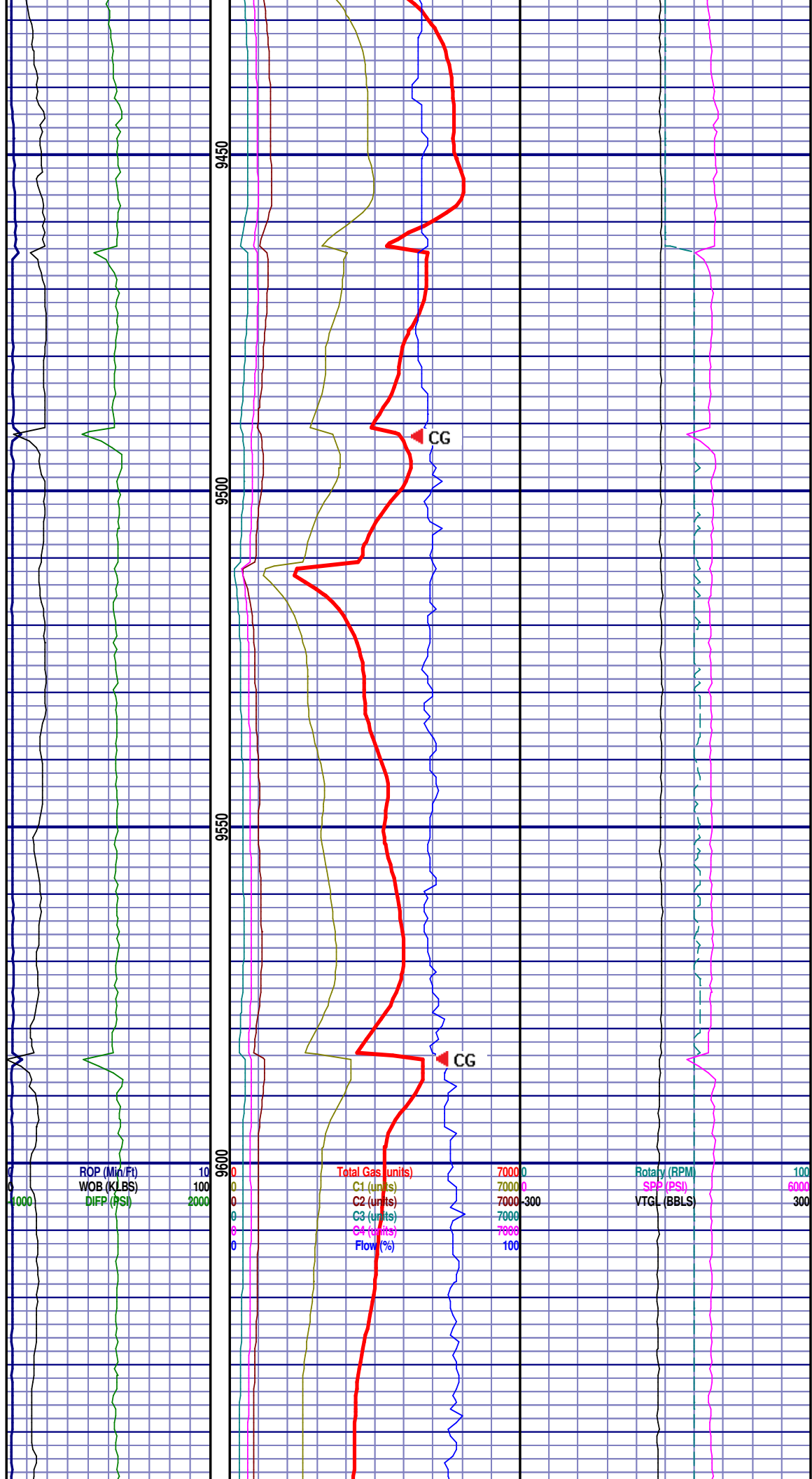
MUD WT. 9.95
VIS. 44



MD 9438 TVD 6792.55
INC 91.6 AZ 359
VS 3142.28

MD 9531 TVD 6790.2
INC 91.3 AZ 358.2
VS 3235.22

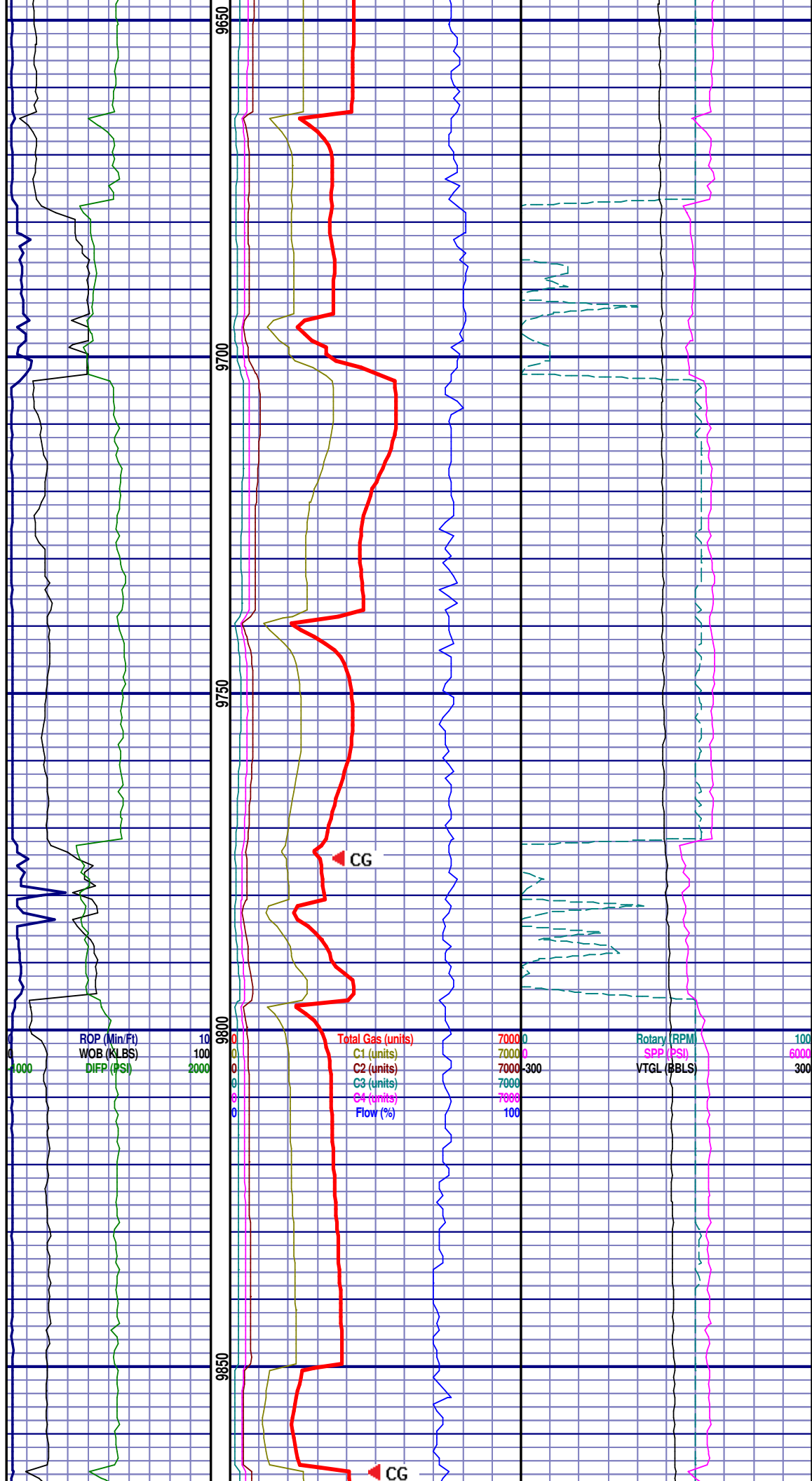
MD 9625 TVD 6789.54
INC 89.5 AZ 356
VS 3329.09



MUD WT. 10.30
VIS. 49

MD 9718 TVD 6788.33
INC 92 AZ 357.4
VS 3421.91

MD 9812 TVD 6785.37
INC 91.6 AZ 358
VS 3515.79



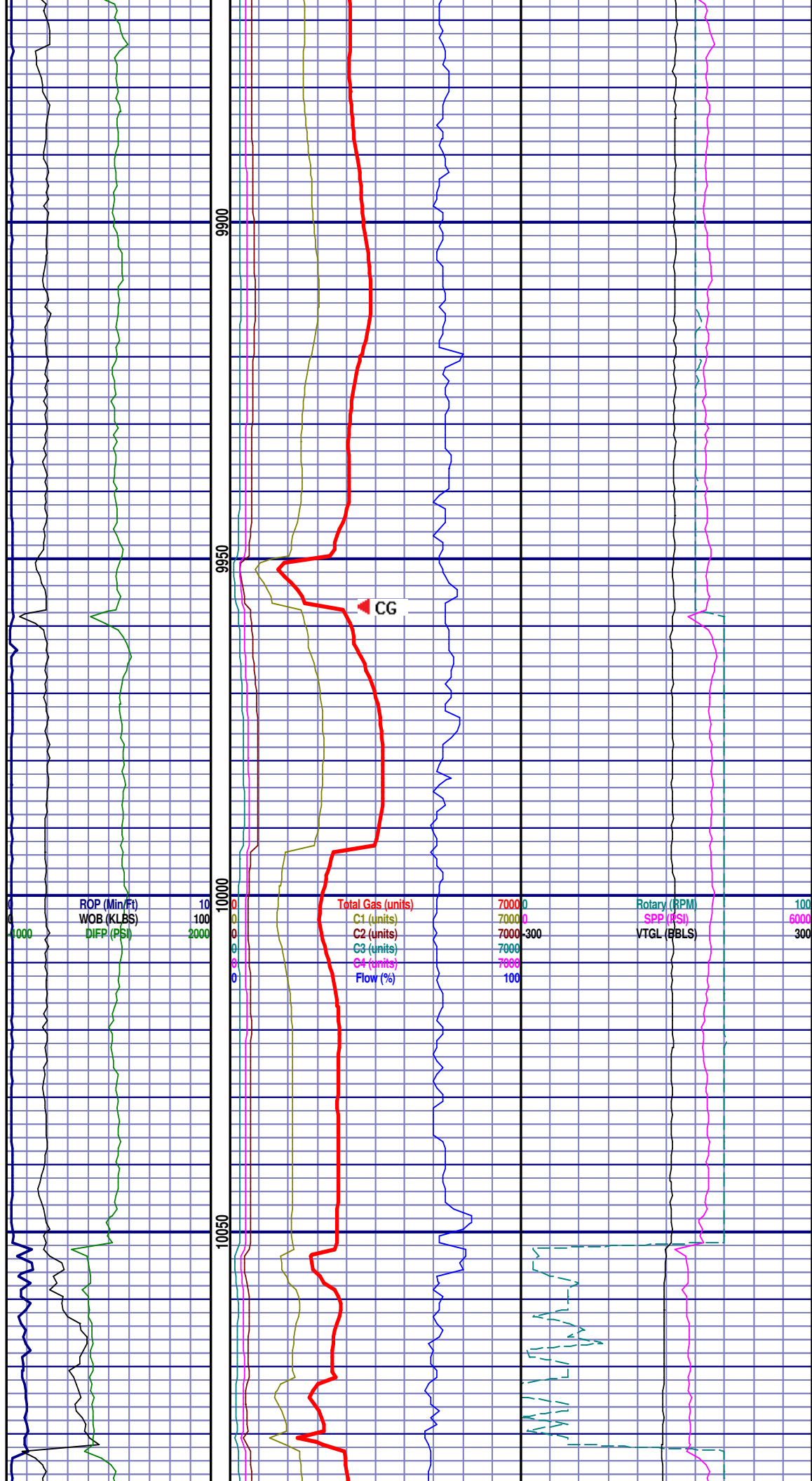
MUD WT. 10.30
VIS. 43

MD 9905 TVD 6781.88
INC 92.7 AZ 357.5
VS 3608.65

MD 9999 TVD 6776.96
INC 93.3 AZ 356.9
VS 3702.41

MUD WT. 10.10
VIS. 41

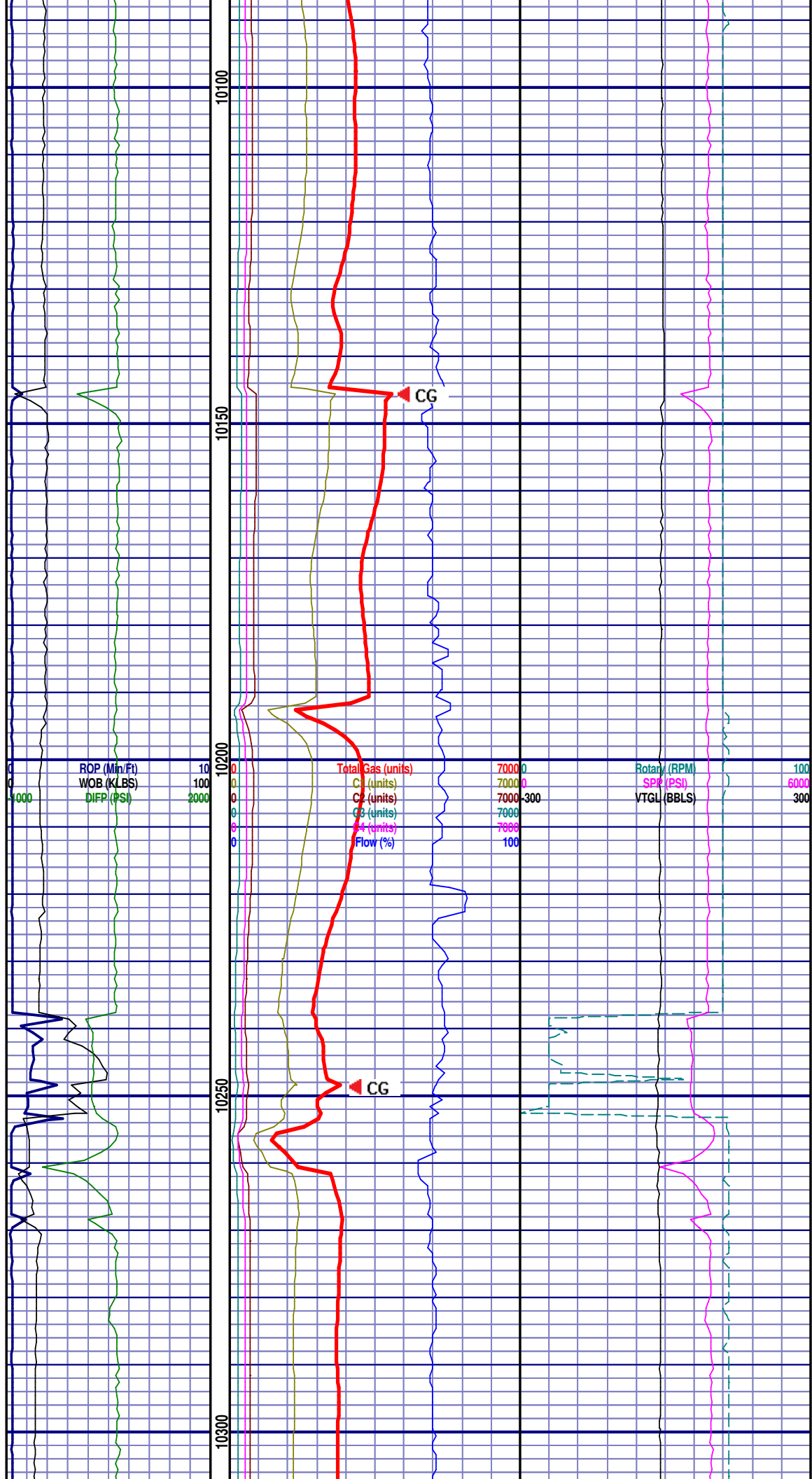
MUD WT. 10.10
VIS. 40



MD 10092 TVD 6773.64
INC 90.8 AZ 358.8
VS 3795.27

MD 10186 TVD 6772.16
INC 91.1 AZ 358.1
VS 3889.23

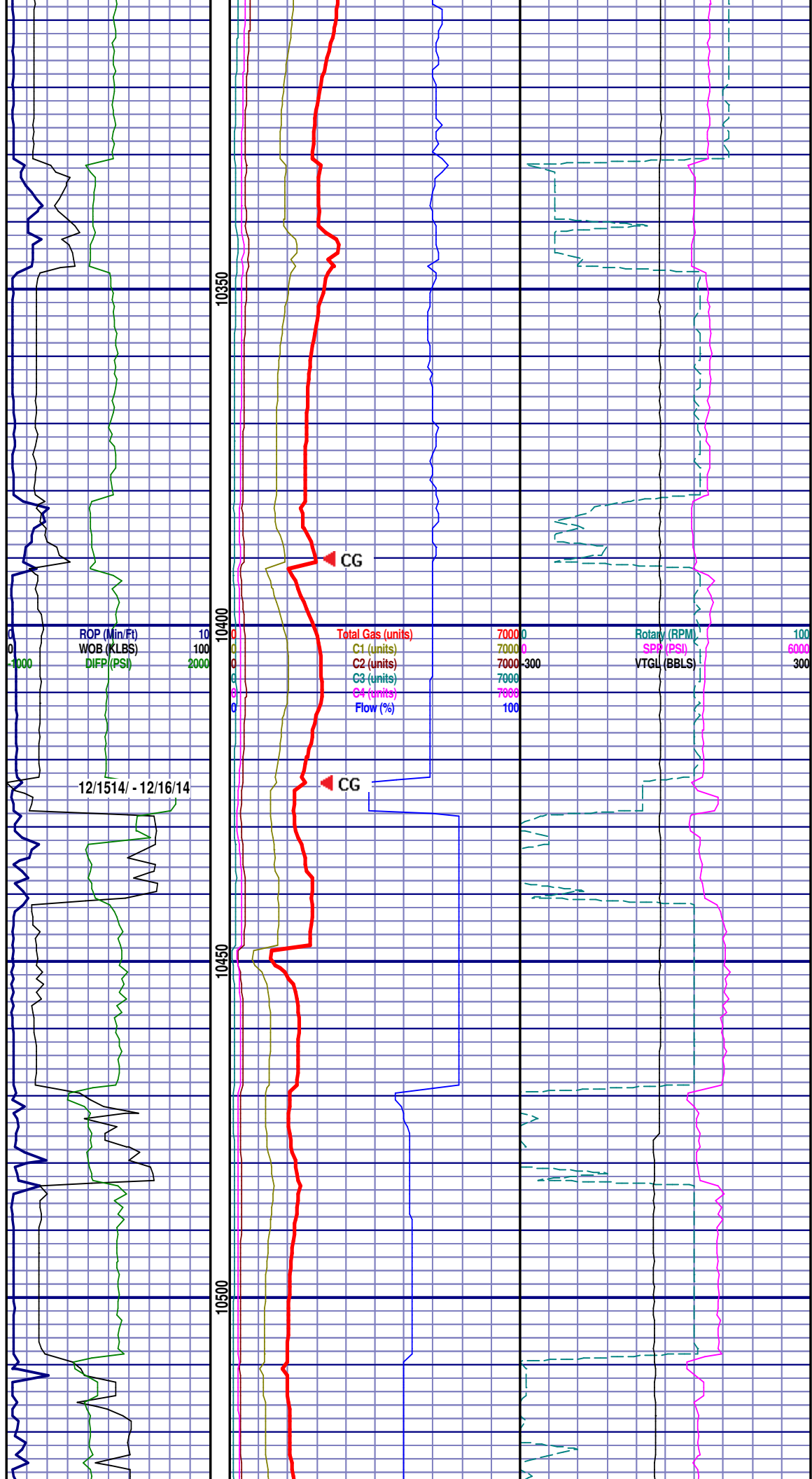
MD 10280 TVD 6771.83
INC 89.4 AZ 355.9
VS 3983.09



MUD WT. IN 10.00/OUT 10.00
VIS. IN 41/OUT 40

MD 10370 TVD 6774.66
INC 87 AZ 353
VS 4072.61

MD 10460 TVD 6777.88
INC 88.9 AZ 354.1
VS 4161.98



MUD WT. IN 10.00/OUT 9.95
VIS. IN 42/OUT 40

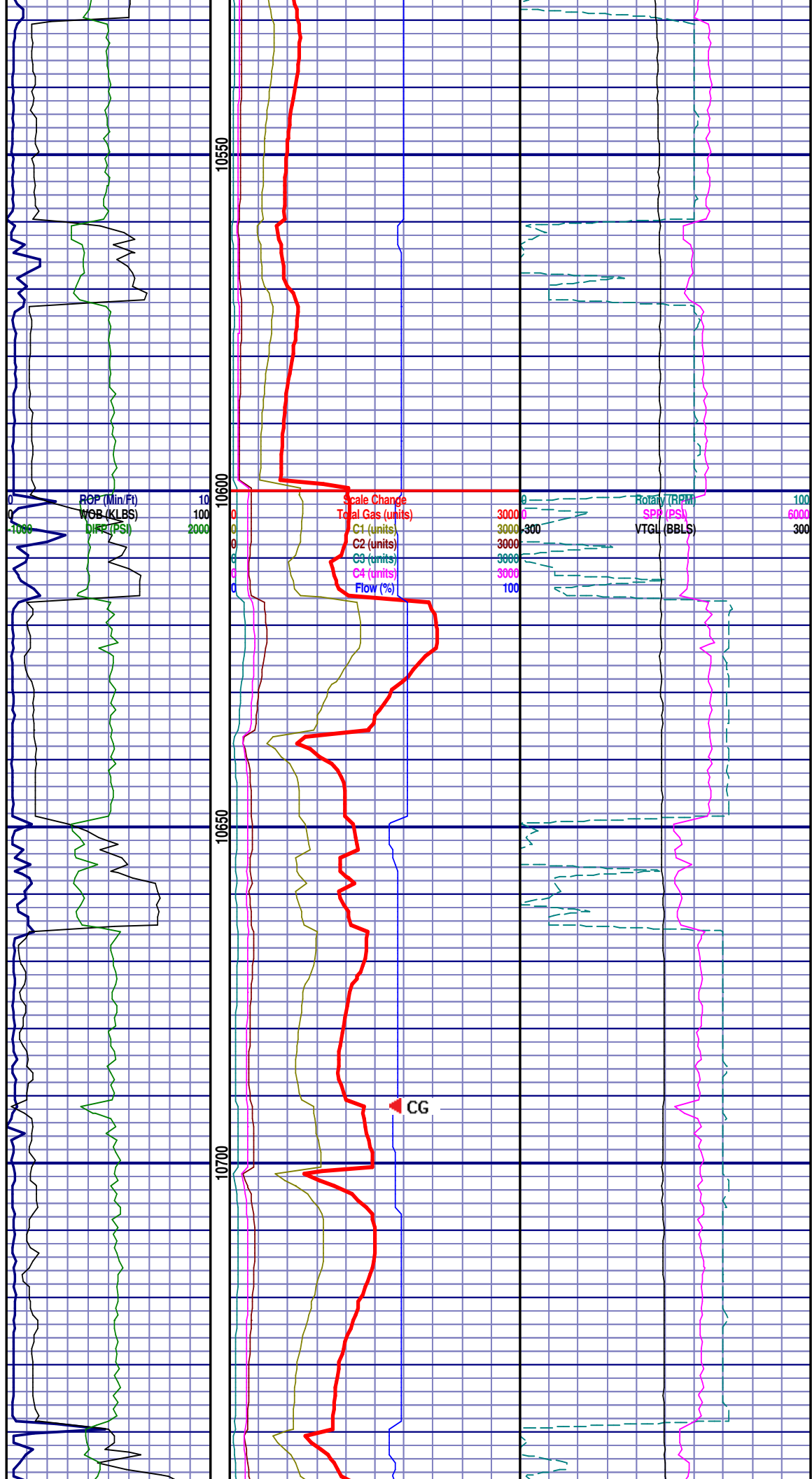
TOOH FOR MOTOR

MUD WT. IN 10.10/OUT 10.00
VIS. IN 42/OUT 41

MD 10550 TVD 6776.94
INC 92.3 AZ 358.3
VS 4251.74

MD 10640 TVD 6774.11
INC 91.3 AZ 0
VS 4341.68

MD 10730 TVD 6771.52
INC 92 AZ 0.9
VS 4431.64



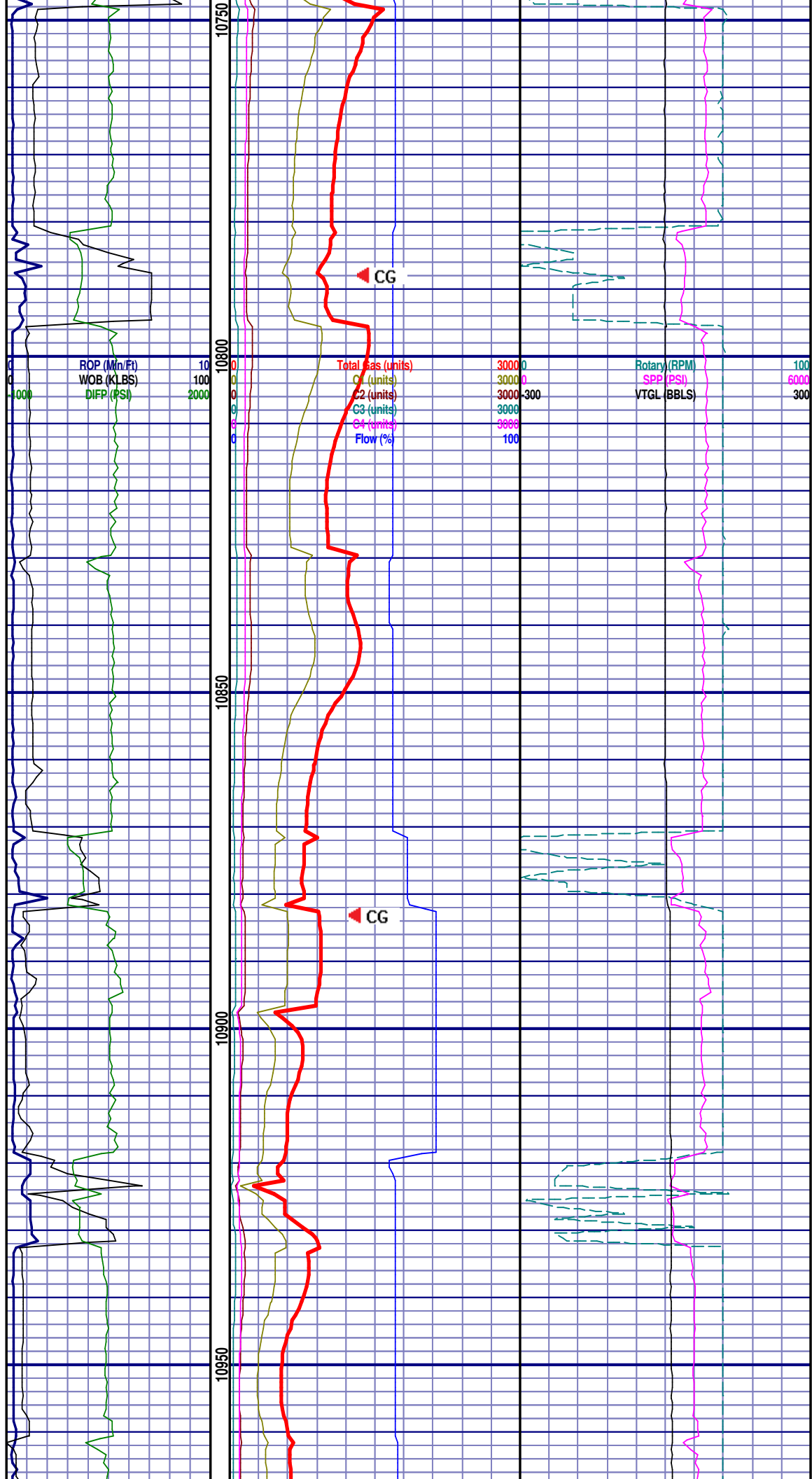
MUD WT. IN 10.10/OUT 10.10
VIS. IN 40/OUT 41

MUD WT. IN 10.10/OUT 10.10
VIS. IN 41/OUT 42

MUD WT. IN 10.10/OUT 10.10
VIS. IN 40/OUT 43

MD 10820 TVD 6769.63
INC 90.4 AZ 1.3
VS 4521.6

MD 10910 TVD 6768.46
INC 91.1 AZ 2.3
VS 4611.55



MUD WT. IN 10.10/OUT 10.10
VIS. IN 41/OUT 43

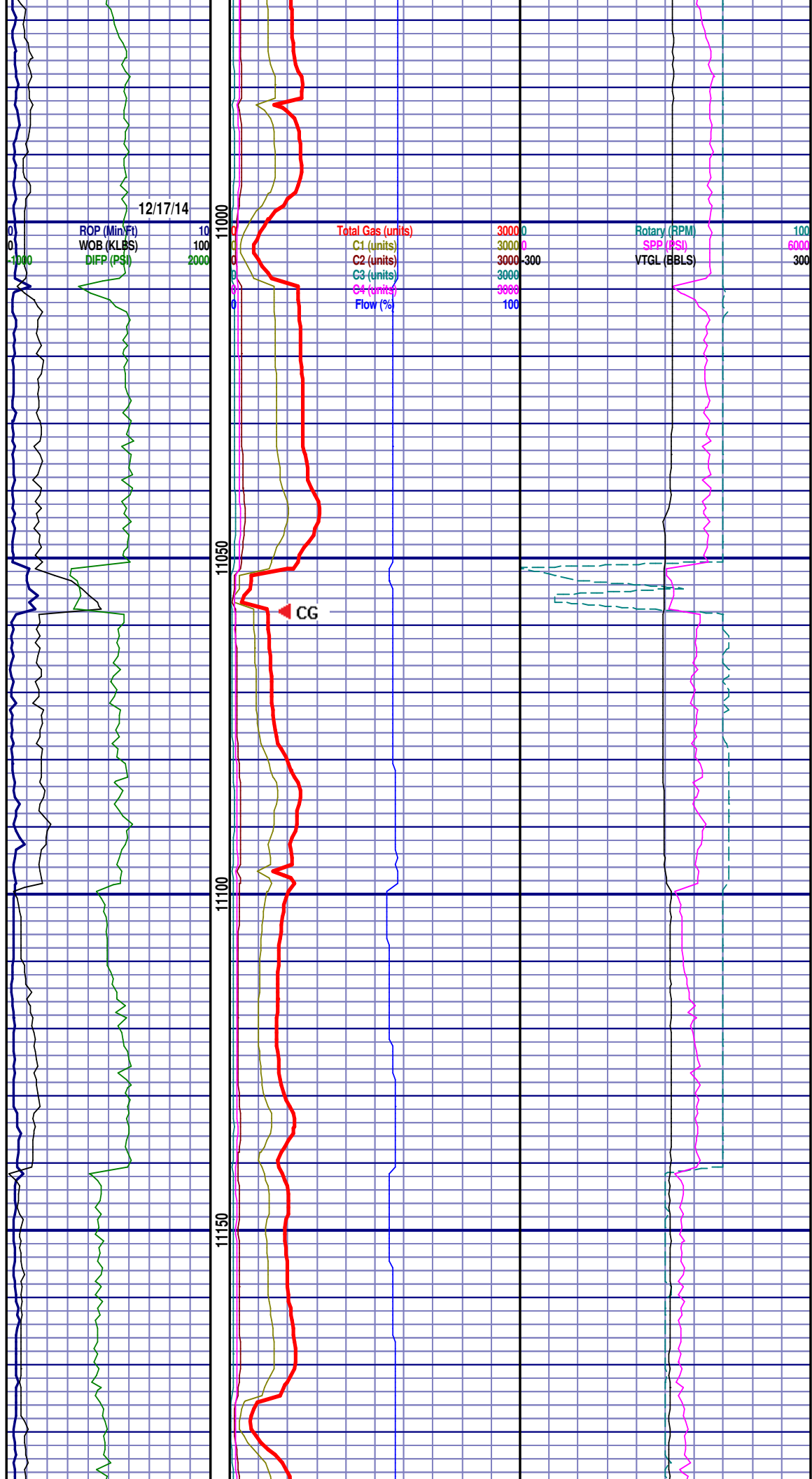
MUD WT. IN 10.10/OUT 10.10
VIS. IN 42/OUT 43

MUD WT. IN 10.20/OUT 10.10
VIS. IN 42/OUT 43

MD 1100 TVD 676.65
INC 91.2 AZ 25
VS 4701.45

MD 1109 TVD 676.34
INC 89.2 AZ 23
VS 4791.36

MD 1118 TVD 676.12
INC 89.8 AZ 22
VS 4881.29



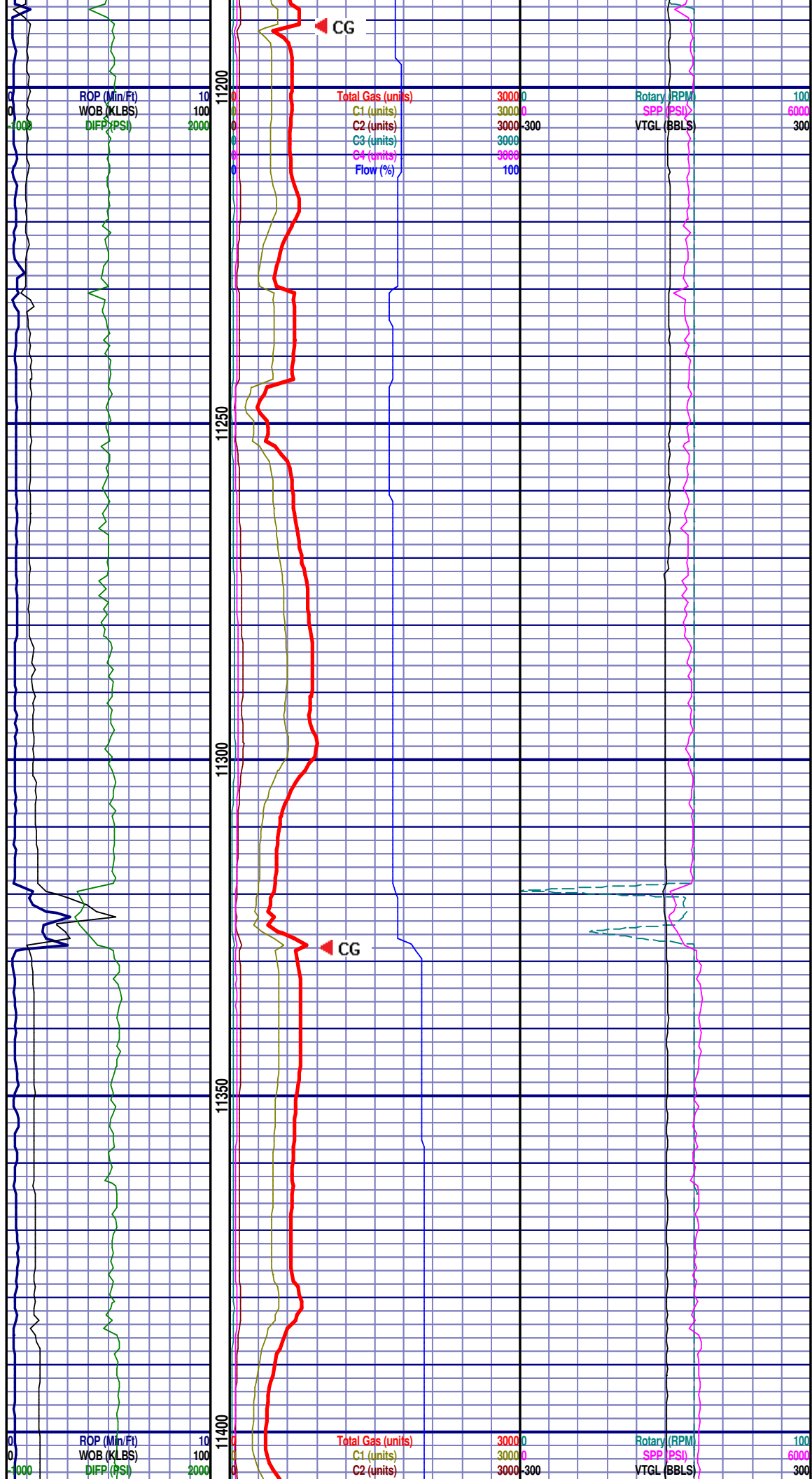
MUD WT. IN 10.20/OUT 10.10
VIS. IN 41/OUT 43

MUD WT. IN 10.20/OUT 10.20
VIS. IN 43/OUT 42

MUD WT. IN 10.30/OUT 10.30
VIS. IN 45/OUT 45

MD 11270 TVD 676.26
INC 91.3 AZ 28
VS 4971.2

MD 11339 TVD 676.48
INC 89.7 AZ 22
VS 5060.11



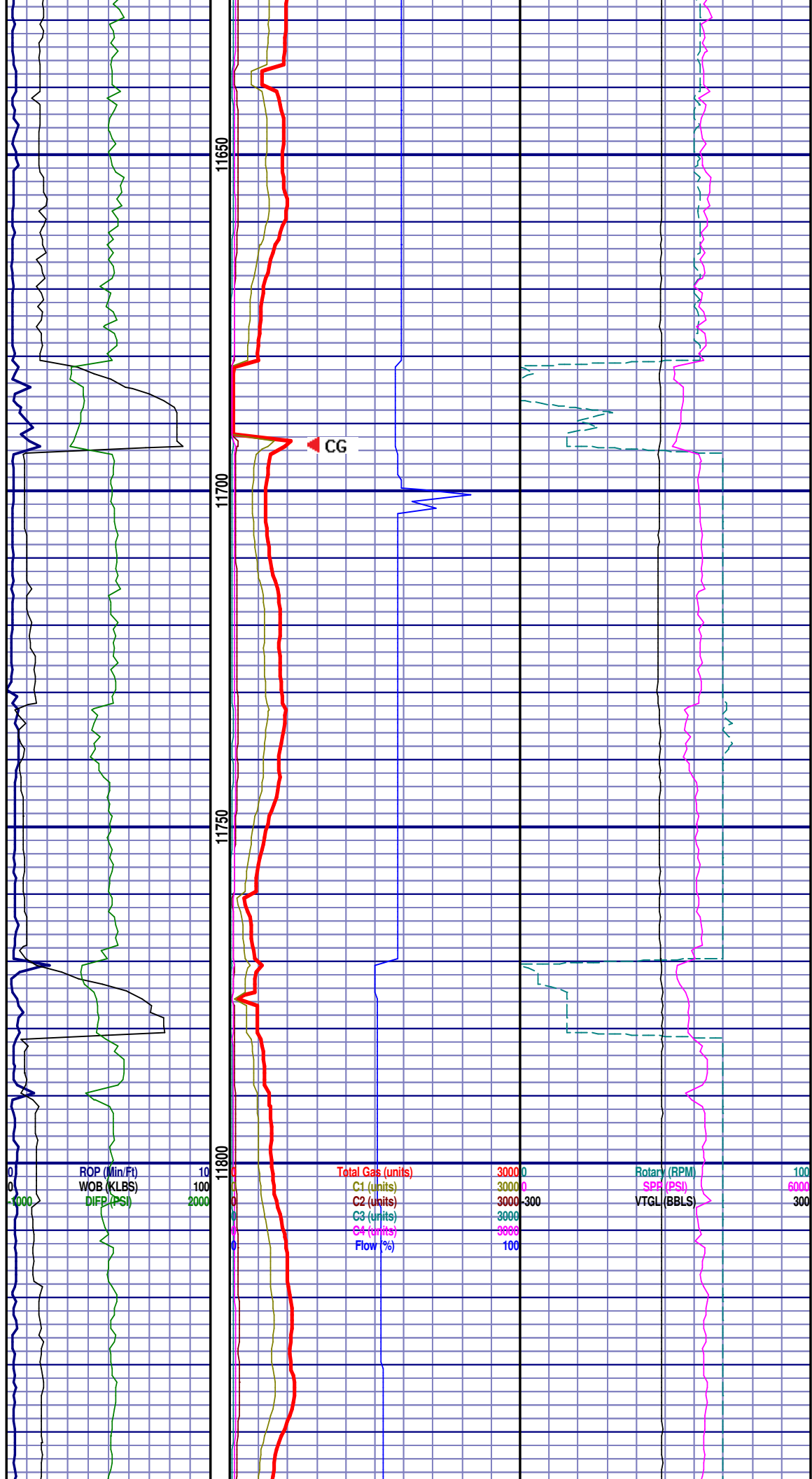


MUD WT. IN 10.30/OUT 10.30
VIS. IN 44/OUT 44

MD 116.3 TVD 6762.95
INC 90.7 AZ 1.6
VS 5330.92

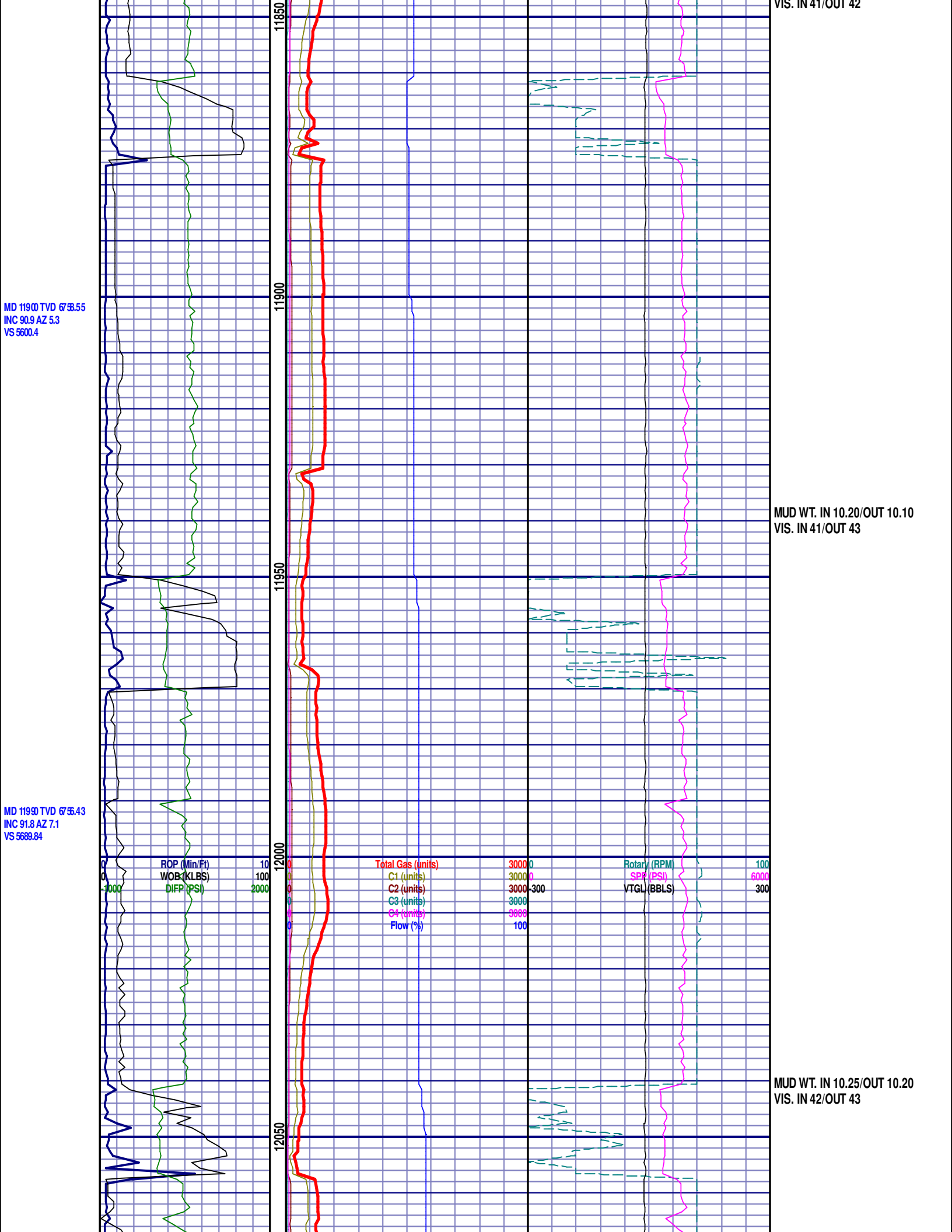
MD 117.2 TVD 6761.85
INC 90.7 AZ 2.7
VS 5420.85

MD 118.10 TVD 6760.28
INC 91.3 AZ 3.7
VS 5510.69



MUD WT. IN 10.20/OUT 10.10
VIS. IN 42/OUT 43

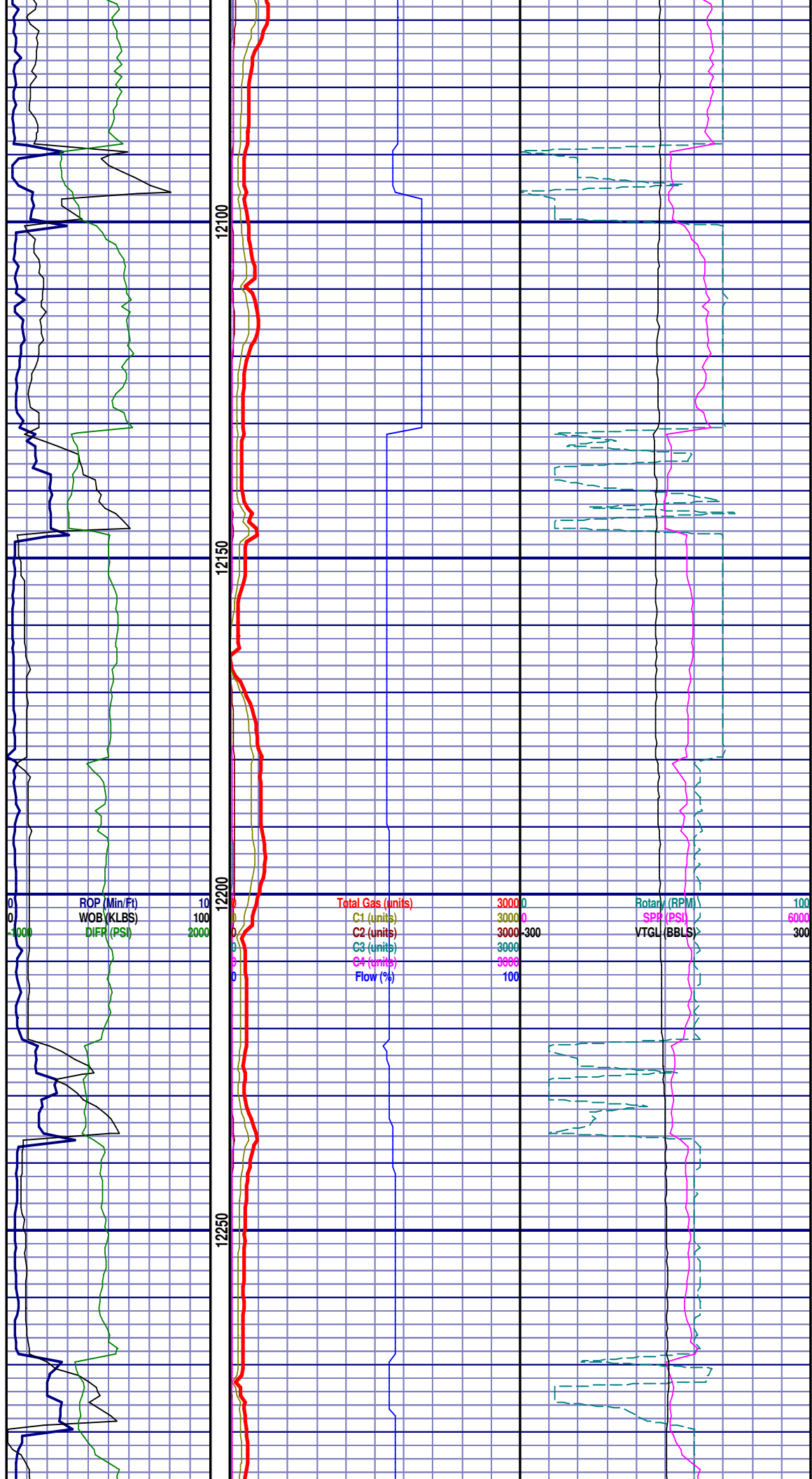
MUD WT. IN 10.00/OUT 10.10
VIS. IN 42/OUT 43



MD 12080 TVD 6754.62
INC 90.5 AZ 5.3
VS 5779.29

MD 12170 TVD 6754.31
INC 89.9 AZ 4.9
VS 5868.93

MD 12260 TVD 6753.99
INC 90.5 AZ 6.7
VS 5958.47



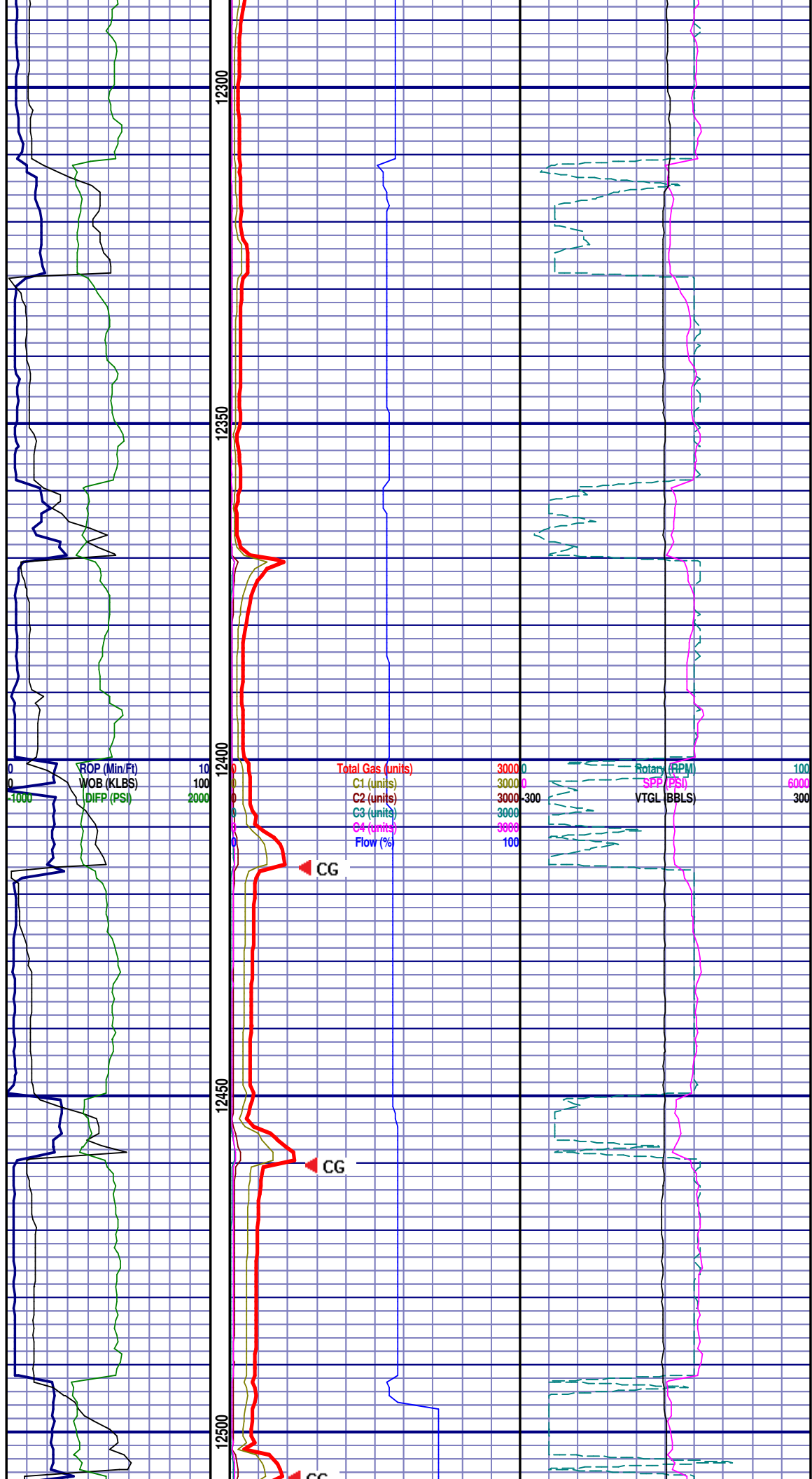
MUD WT. IN 10.25/OUT 10.25
VIS. IN 40/OUT 42

MUD WT. IN 10.20/OUT 10.15
VIS. IN 40/OUT 42

MUD WT. IN 10.15/OUT 10.05
VIS. IN 40/OUT 40

MD 12350 TVD 6754.47
INC 88.9 AZ 5.2
VS 6047.98

MD 12440 TVD 6755.96
INC 89.2 AZ 3
VS 6137.73



MUD WT. IN 10.10/OUT 10.15
VIS. IN 41/OUT 41

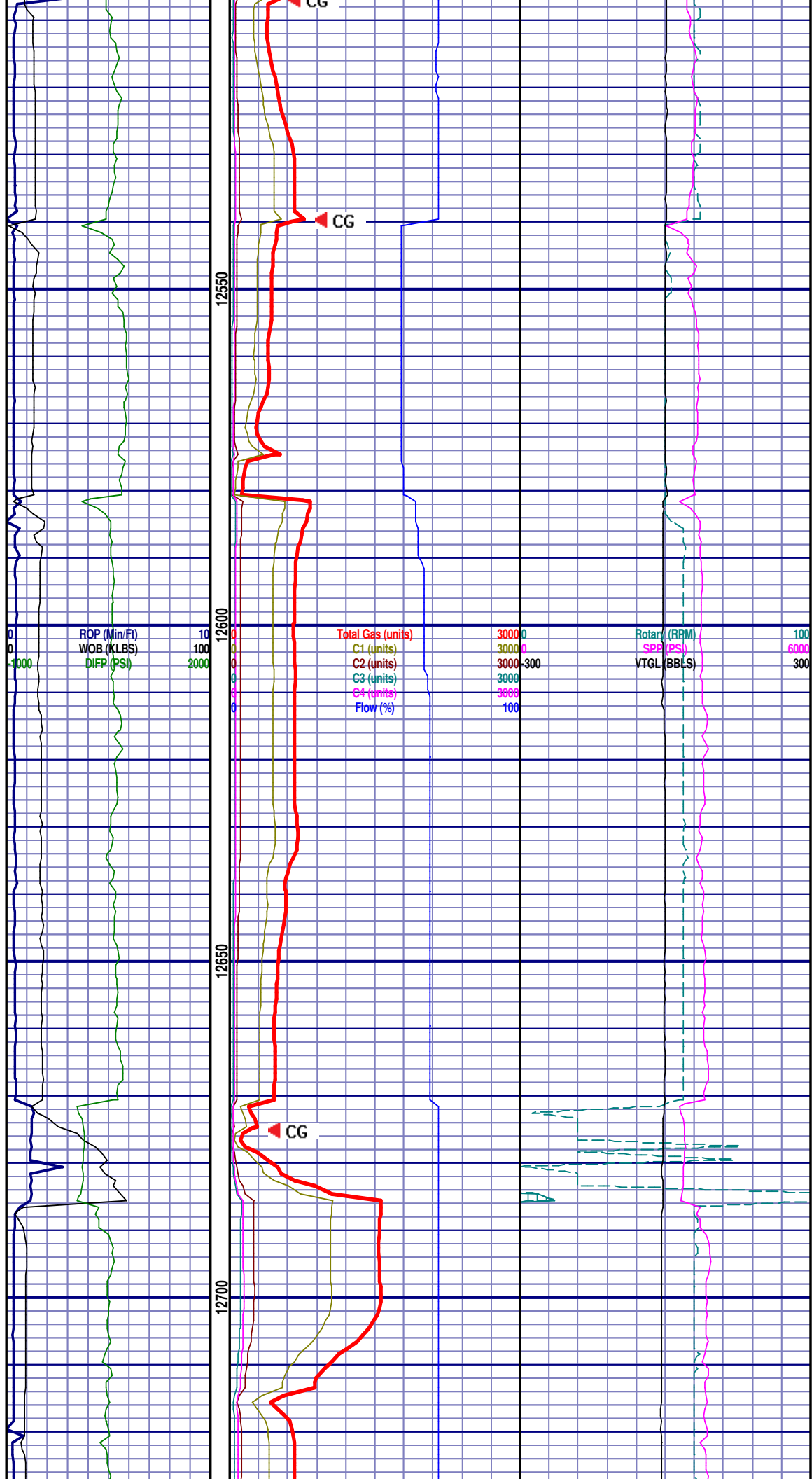
MUD WT. IN 10.15/OUT 10.05
VIS. IN 41/OUT 41

MUD WT. IN 10.10/OUT 10.00
VIS. IN 41/OUT 41

MD 12530 TVD 6758.16
INC 88 AZ 358.4
VS 6227.67

MD 12620 TVD 6761.54
INC 87.7 AZ 357.5
VS 6317.55

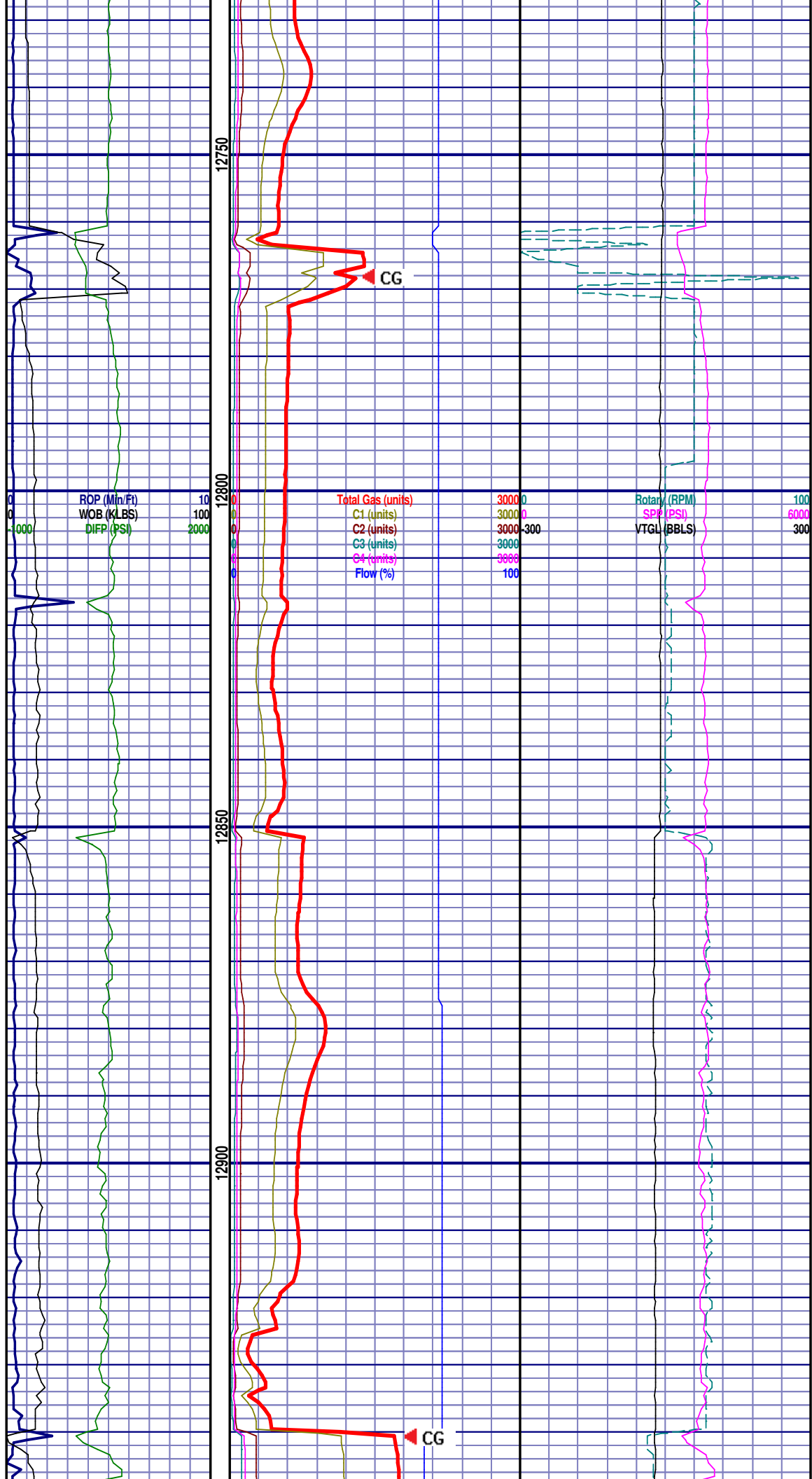
MD 12710 TVD 6763.66
INC 89.6 AZ 358.6
VS 6407.46



MUD WT. IN 10.00/OUT 10.00
VIS. IN 41/OUT 41

MD 12800 TVD 6763.03
INC 91.2 AZ 358.8
VS 6497.43

MD 12890 TVD 6761.77
INC 90.4 AZ 356.7
VS 6587.35



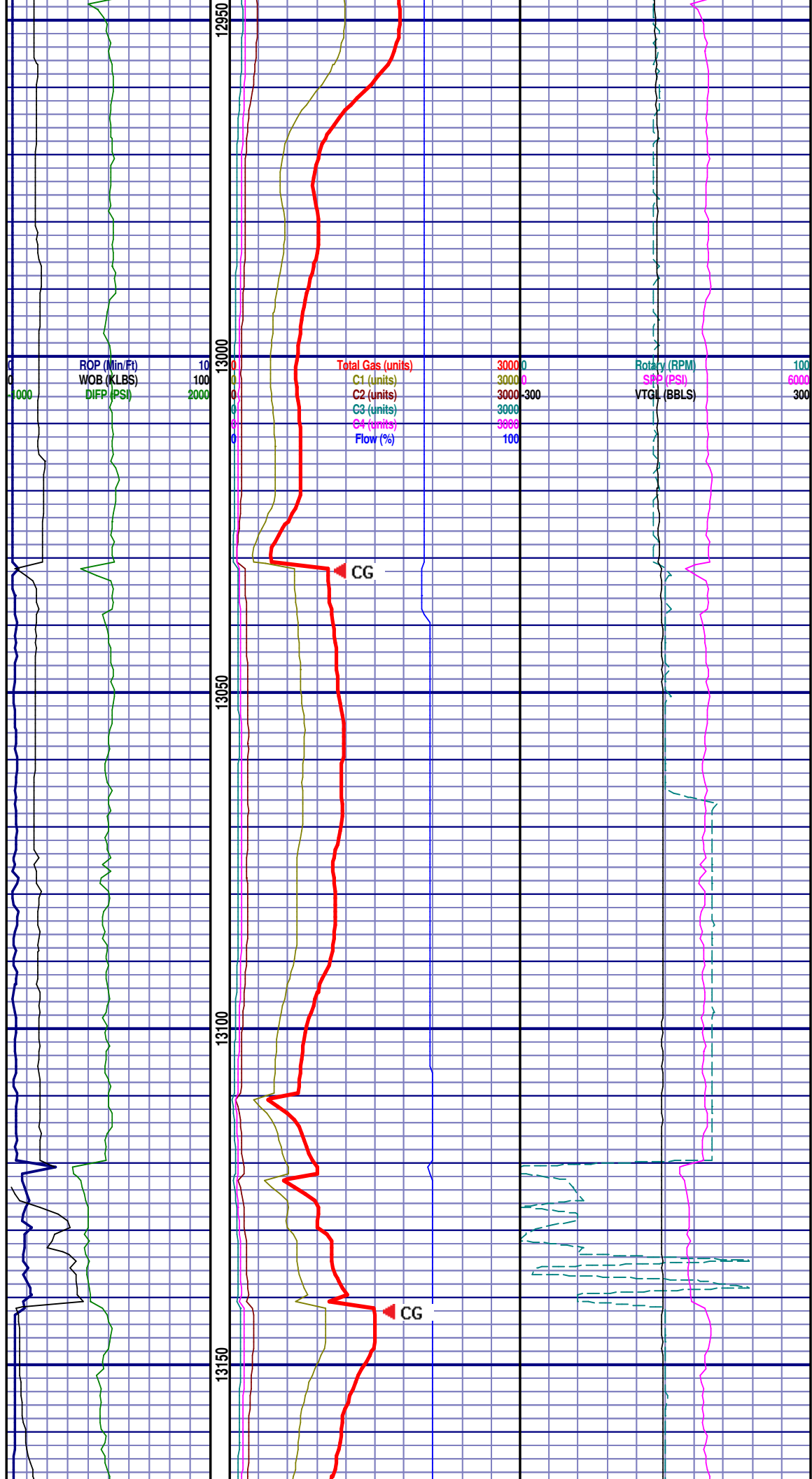
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VIS. IN 41/OUT 41

MUD WT. IN 10.00/OUT 10.00
VIS. IN 41/OUT 41

MD 12380 TVD 6760.67
INC 91 AZ 355.4
VS 6677.13

MD 13070 TVD 6760.51
INC 89.2 AZ 355.4
VS 6766.83

MD 13163 TVD 6760.43
INC 90.0 AZ 355.5
VS 6766.83



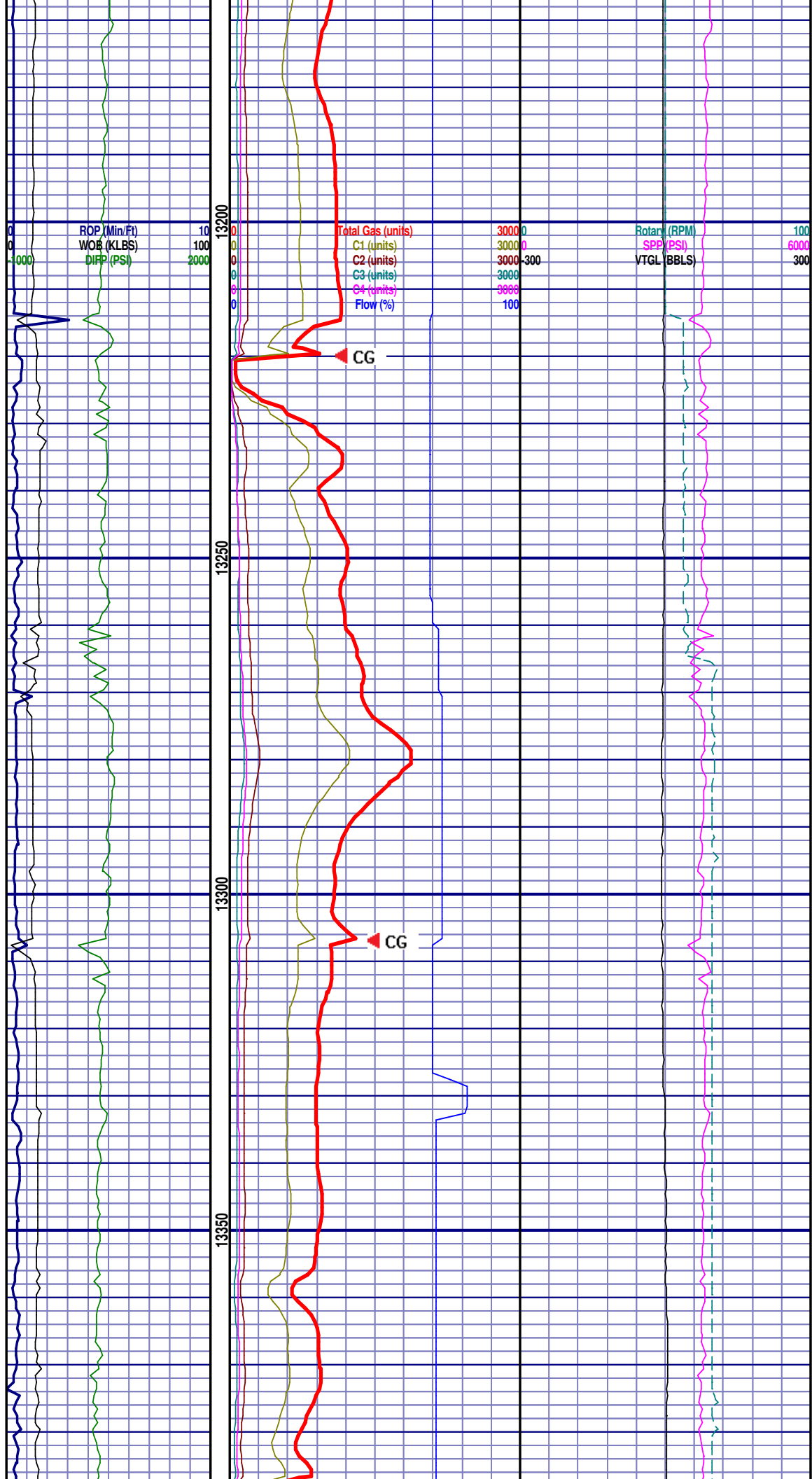
MUD WT. IN 10.00/OUT 10.00
VIS. IN 41/OUT 41

MUD WT. IN 10.00/OUT 10.00
VIS. IN 40/OUT 43

INC 90.9 AZ 355.3
VS 6859.54

MD 13257 TVD 6758.3
INC 91.7 AZ 355.4
VS 6953.22

MD 13350 TVD 6754.89
INC 92.5 AZ 355.8
VS 7045.88



MUD WT. IN 10.00/OUT 10.00
VIS. IN 41/OUT 43

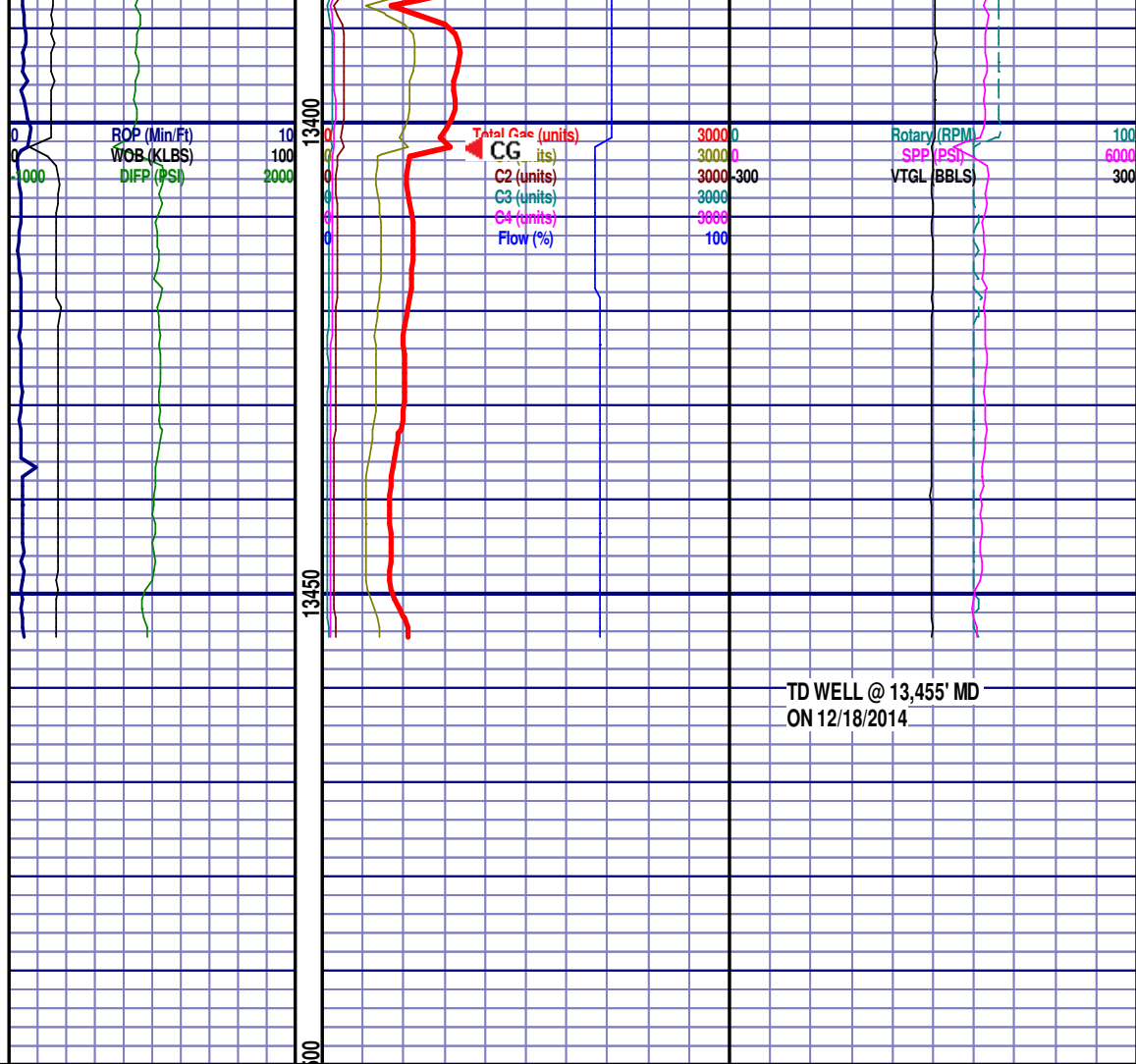
MUD WT. IN 10.10/OUT 10.00
VIS. IN 40/OUT 43

MUD WT. IN 10.10/OUT 10.00
VIS. IN 39/OUT 42

MUD WT. IN 10.30/OUT 10.20
VIS. IN 39/OUT 45

MD 13400 TVD 6752.45
INC 93.1 AZ 355.5
VS 7095.68

PTB:
MD 13455 TVD 6750.47
INC 93.1 AZ 355.5
VS 7150.56



MUD WT. IN 10.20/OUT 10.10
VIS. IN 38/OUT 41

TD WELL @ 13,455' MD
ON 12/18/2014