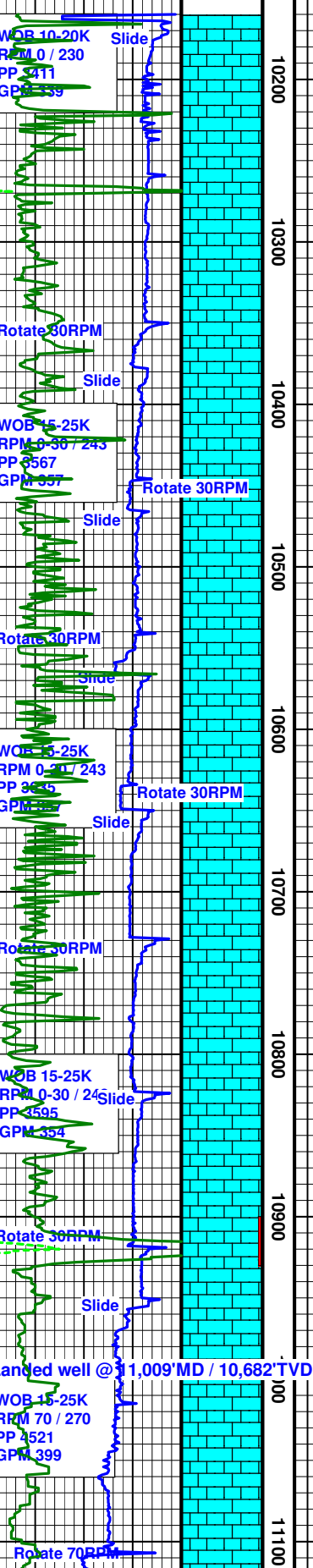




NB 6.75" Haliburton GTD64M  
w/6x18's Jets TFA=1.49  
w/ 2.12° Motor, MWD, & Gamma

7 5/8" 29.7# casing @ 10,148' MD  
Tested to 2162psi w/ 8.9ppg MW  
EMW = 13.0ppg

Total gas calibration : 50 units = 1% Methane



SDG 81  
MG 148

CG 37

CG 42

CG 54

CG 57

CG 98

CG 134

CG 166

CG 173

CG 790

NOTE: Scale Change

Total Gas  
Units  
CG 1072

MW 8.8  
Vis 44  
PV 8  
YP 8  
Fil 13.6  
Cl 55,000

MW In 8.9 / MW Out 8.9

MW In 8.9+ / MW Out 8.9+

MW In 8.9 / MW Out 8.9+

MW In 8.8 / MW Out 8.8

MW In 8.8 / MW Out 8.8

MW In 8.8 / MW Out 8.8

Chlk: It gry gry tn mott frm brit  
i.p. blkly pty flky dull microxln  
MD 10187'  
ANG 15.15°  
AZM 178.40°  
TVD 10168.83'

Chlk: It gry gry tn mott frm brit  
i.p. blkly pty flky dull microxln

MD 10282'  
ANG 23.97°  
AZM 154.38°  
TVD 10258.40'

Chlk: It gry gry tn mott frm brit  
i.p. blkly pty flky dull microxln

MD 10377'  
ANG 29.84°  
AZM 142.99°  
TVD 10343.14'

Chlk: It gry gry tn mott frm brit  
i.p. blkly pty flky dull microxln

MD 10471'  
ANG 35.78°  
AZM 129.86°  
TVD 10422.21'

Chlk: It gry gry tn mott frm brit  
i.p. blkly pty flky dull microxln

MD 10566'  
ANG 43.28°  
AZM 126.43°  
TVD 10495.44'

Chlk: It gry gry tn mott frm brit  
i.p. blkly pty flky dull microxln

MD 10660'  
ANG 47.32°  
AZM 121.58°  
TVD 10561.57'

Chlk: It gry gry tn mott frm brit  
i.p. blkly pty flky dull microxln

MD 10751'  
ANG 60.30°  
AZM 121.22°  
TVD 1015.19'

Chlk: It gry gry tn mott frm brit  
i.p. blkly pty flky dull microxln

MD 10847'  
ANG 72.32°  
AZM 126.51°  
TVD 10652.93'

Chlk: gry It gry mott frm brit i.p.  
blkly pty flky dull microxln  
w/apprx: 2-5% Ash in Sample

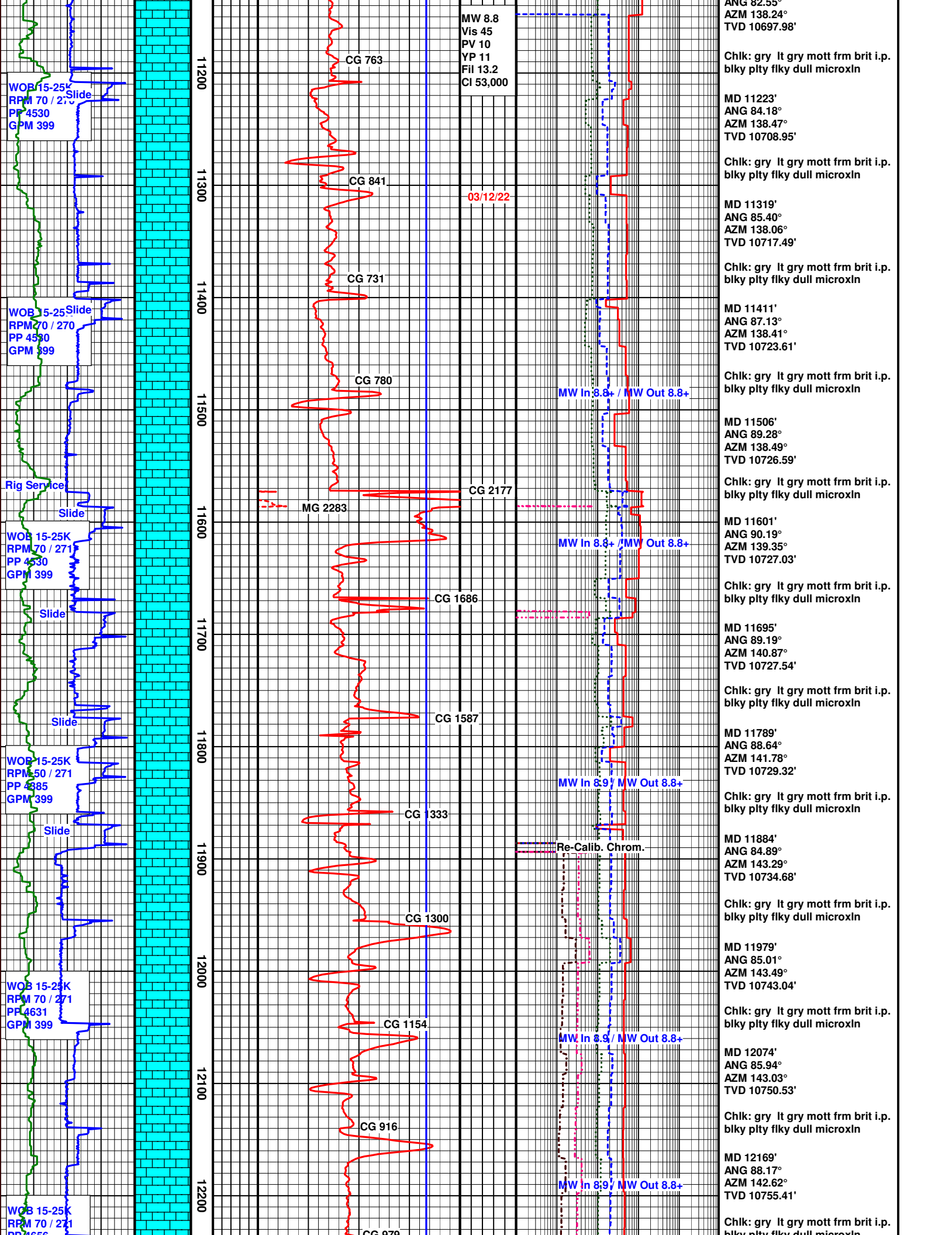
MD 10941'  
ANG 81.89°  
AZM 138.91°  
TVD 10673.17'

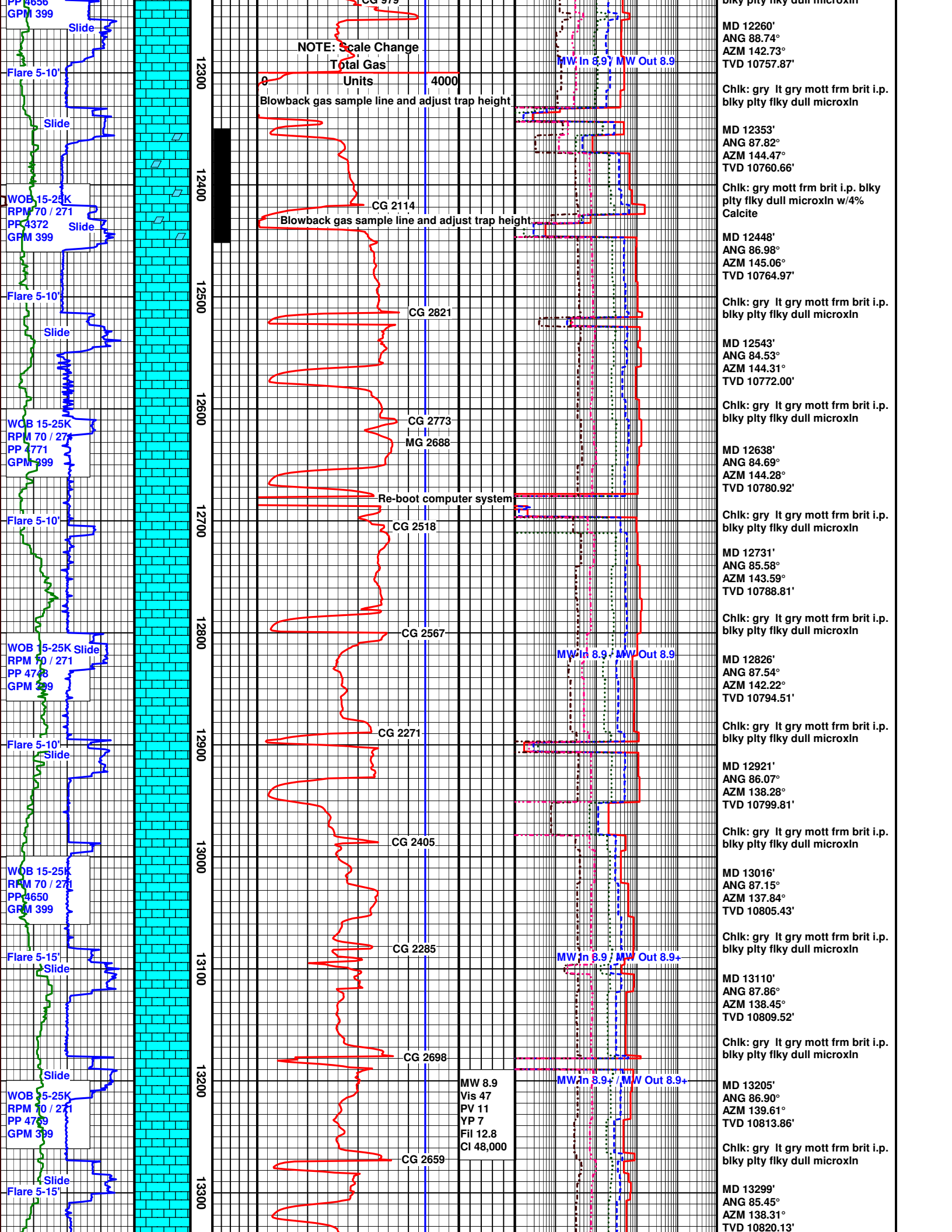
Chlk: gry It gry mott frm brit i.p.  
blkly pty flky dull microxln

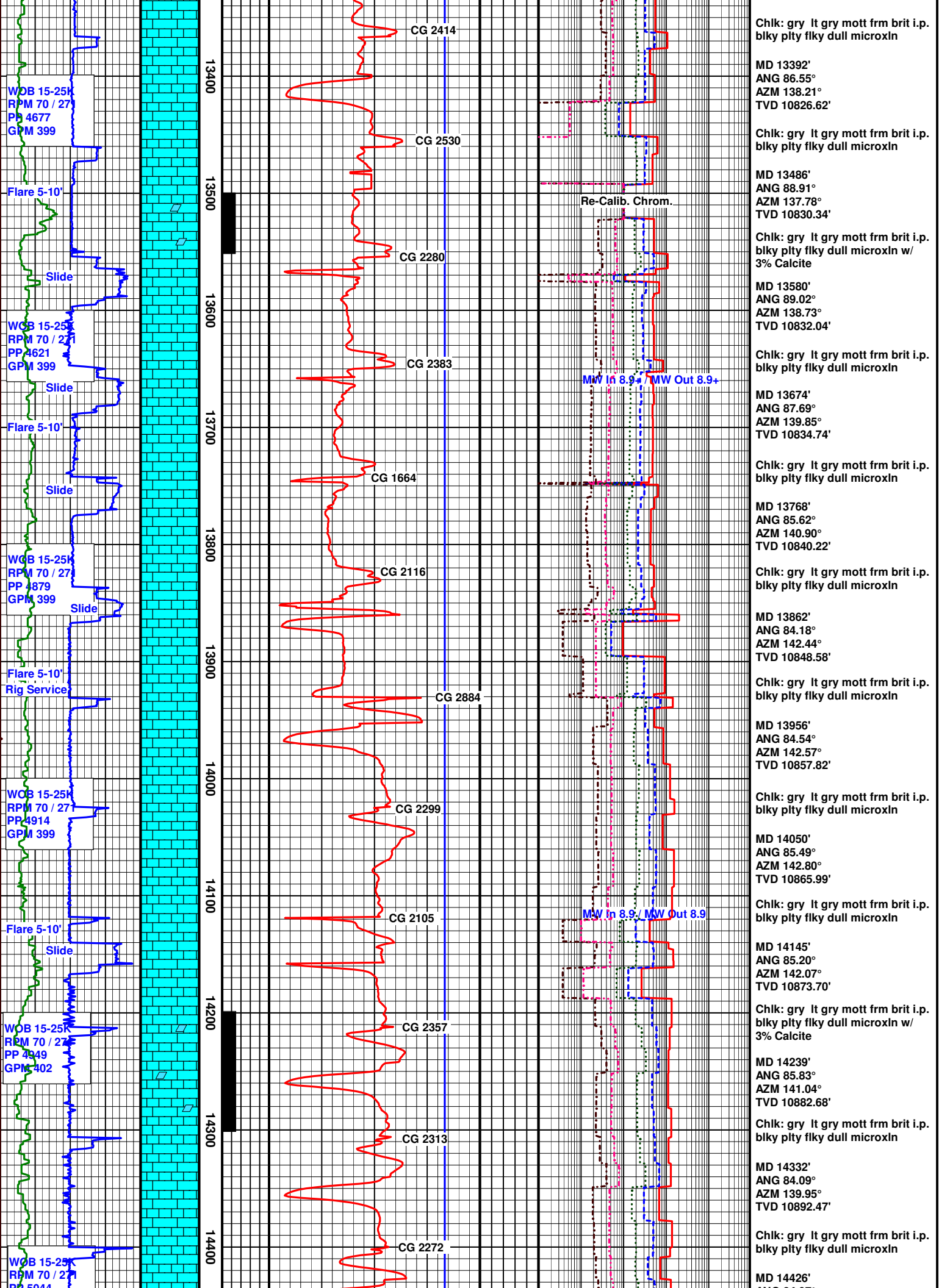
MD 11034'  
ANG 82.53°  
AZM 139.04°  
TVD 10685.77'

Chlk: gry It gry mott frm brit i.p.  
blkly pty flky dull microxln

MD 11128'  
ANG 82.55°  
AZM 139.04°  
TVD 10685.77'







Chlk: gry It gry mott frm brit i.p.  
blky pty flky dull microxn

MD 13392'  
ANG 86.55°  
AZM 138.21°  
TVD 10826.62'

Chlk: gry It gry mott frm brit i.p.  
blky pty flky dull microxn

MD 13486'  
ANG 88.91°  
AZM 137.78°  
TVD 10830.34'

Chlk: gry It gry mott frm brit i.p.  
blky pty flky dull microxn w/  
3% Calcite

MD 13580'  
ANG 89.02°  
AZM 138.73°  
TVD 10832.04'

Chlk: gry It gry mott frm brit i.p.  
blky pty flky dull microxn

MD 13674'  
ANG 87.69°  
AZM 139.85°  
TVD 10834.74'

Chlk: gry It gry mott frm brit i.p.  
blky pty flky dull microxn

MD 13768'  
ANG 85.62°  
AZM 140.90°  
TVD 10840.22'

Chlk: gry It gry mott frm brit i.p.  
blky pty flky dull microxn

MD 13862'  
ANG 84.18°  
AZM 142.44°  
TVD 10848.58'

Chlk: gry It gry mott frm brit i.p.  
blky pty flky dull microxn

MD 13956'  
ANG 84.54°  
AZM 142.57°  
TVD 10857.82'

Chlk: gry It gry mott frm brit i.p.  
blky pty flky dull microxn

MD 14050'  
ANG 85.49°  
AZM 142.80°  
TVD 10865.99'

Chlk: gry It gry mott frm brit i.p.  
blky pty flky dull microxn

MD 14145'  
ANG 85.20°  
AZM 142.07°  
TVD 10873.70'

Chlk: gry It gry mott frm brit i.p.  
blky pty flky dull microxn w/  
3% Calcite

MD 14239'  
ANG 85.83°  
AZM 141.04°  
TVD 10882.68'

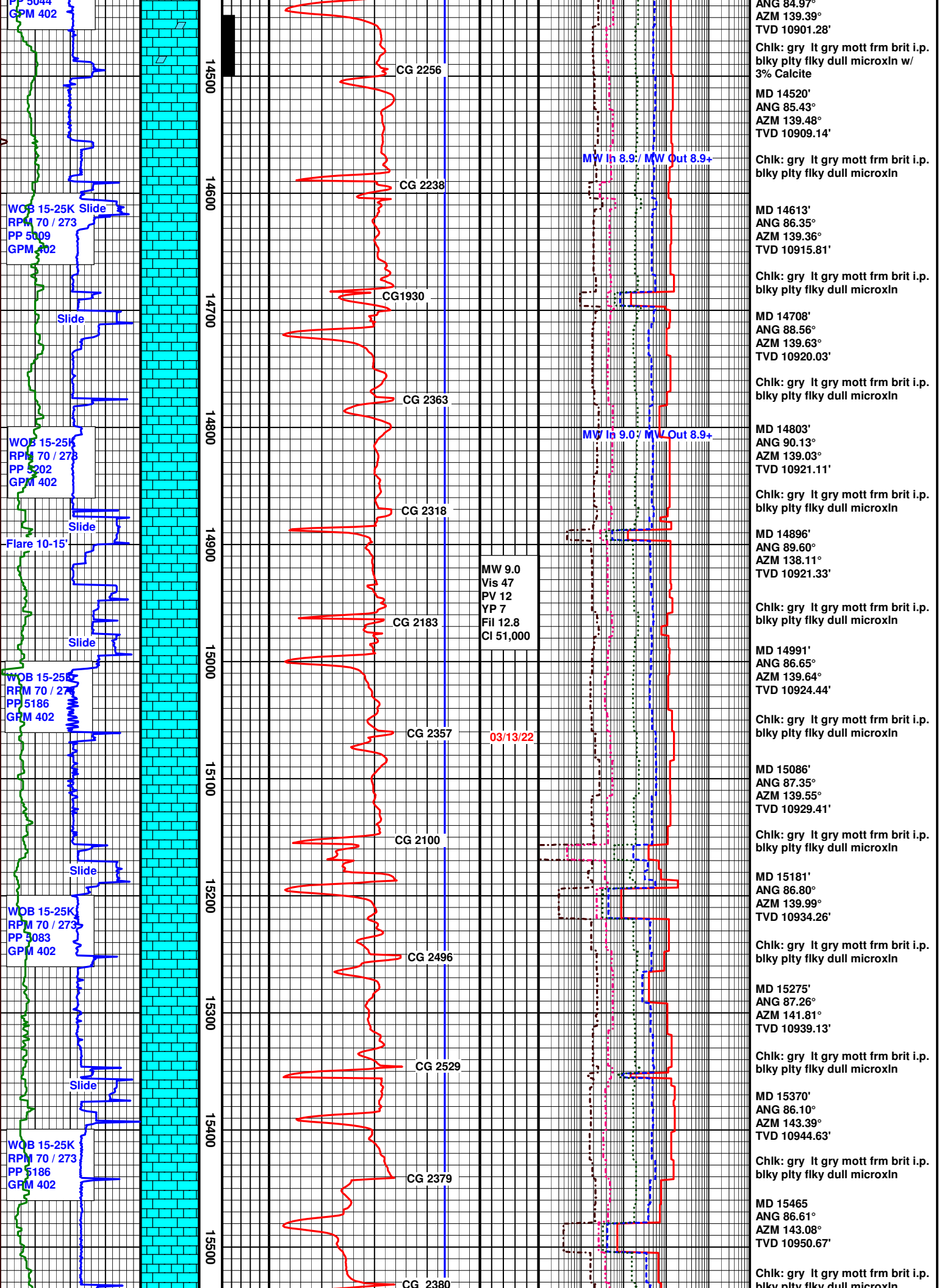
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blky pty flky dull microxn

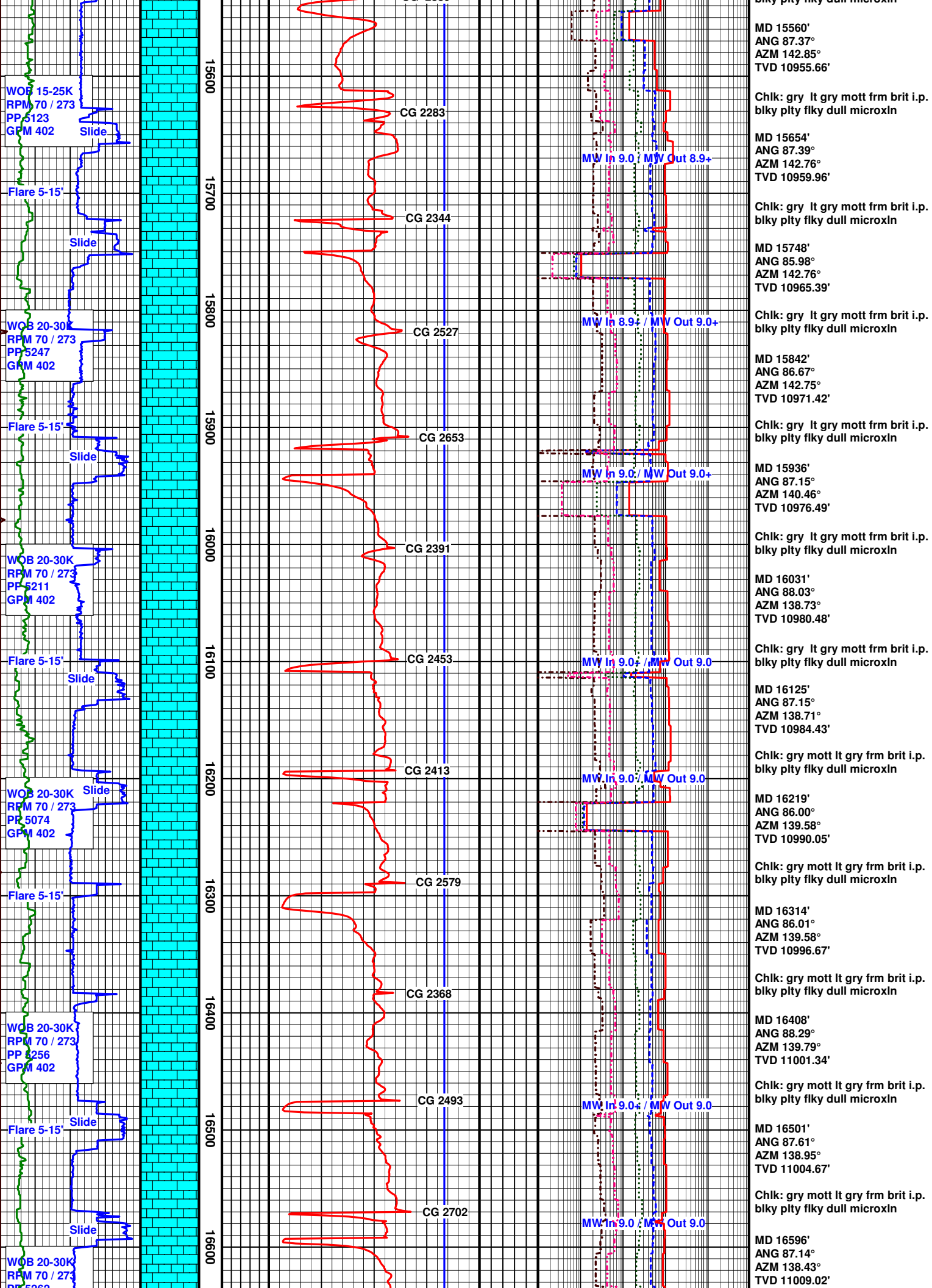
MD 14332'  
ANG 84.09°  
AZM 139.95°  
TVD 10892.47'

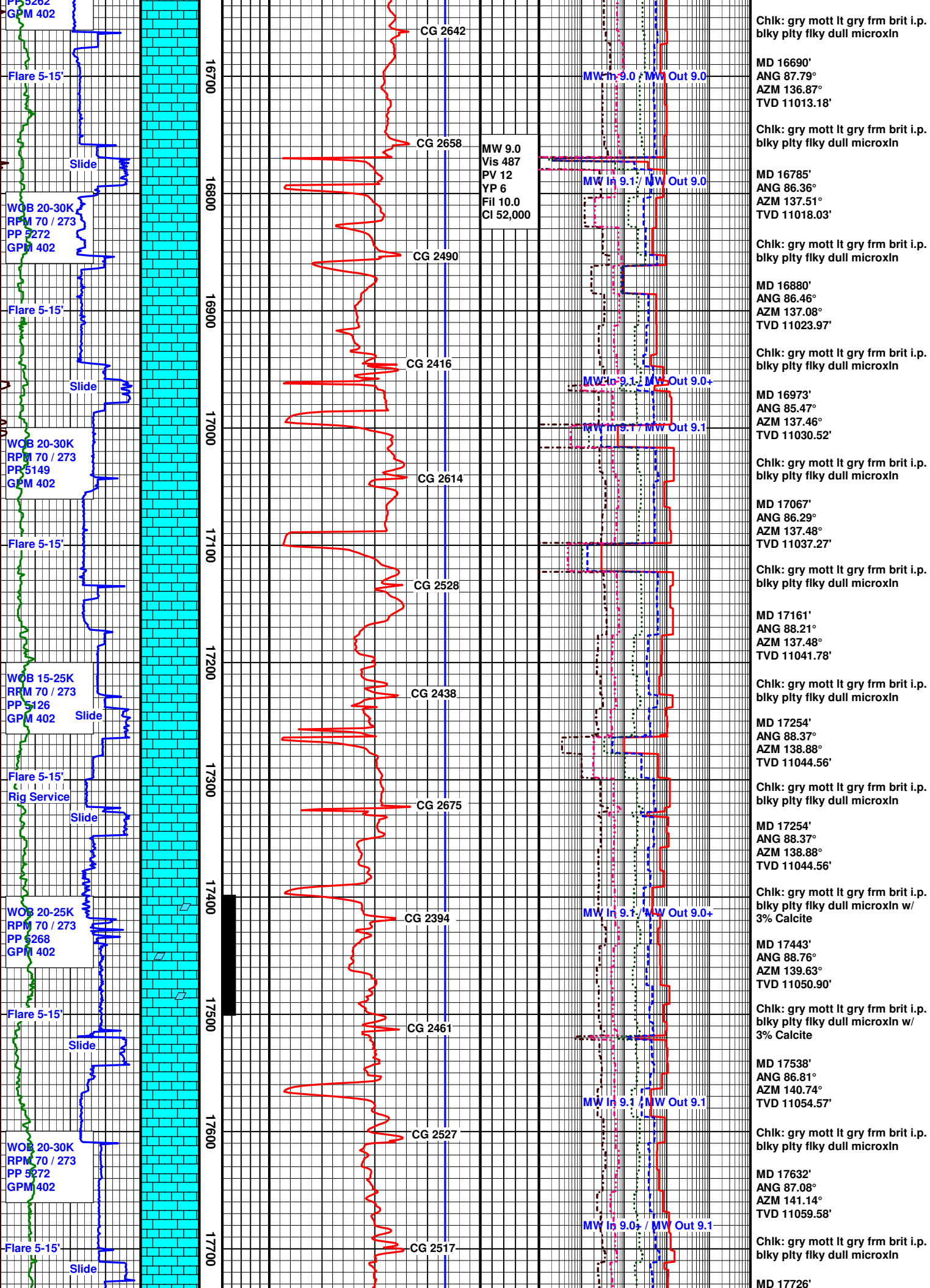
Chlk: gry It gry mott frm brit i.p.  
blky pty flky dull microxn

MD 14426'

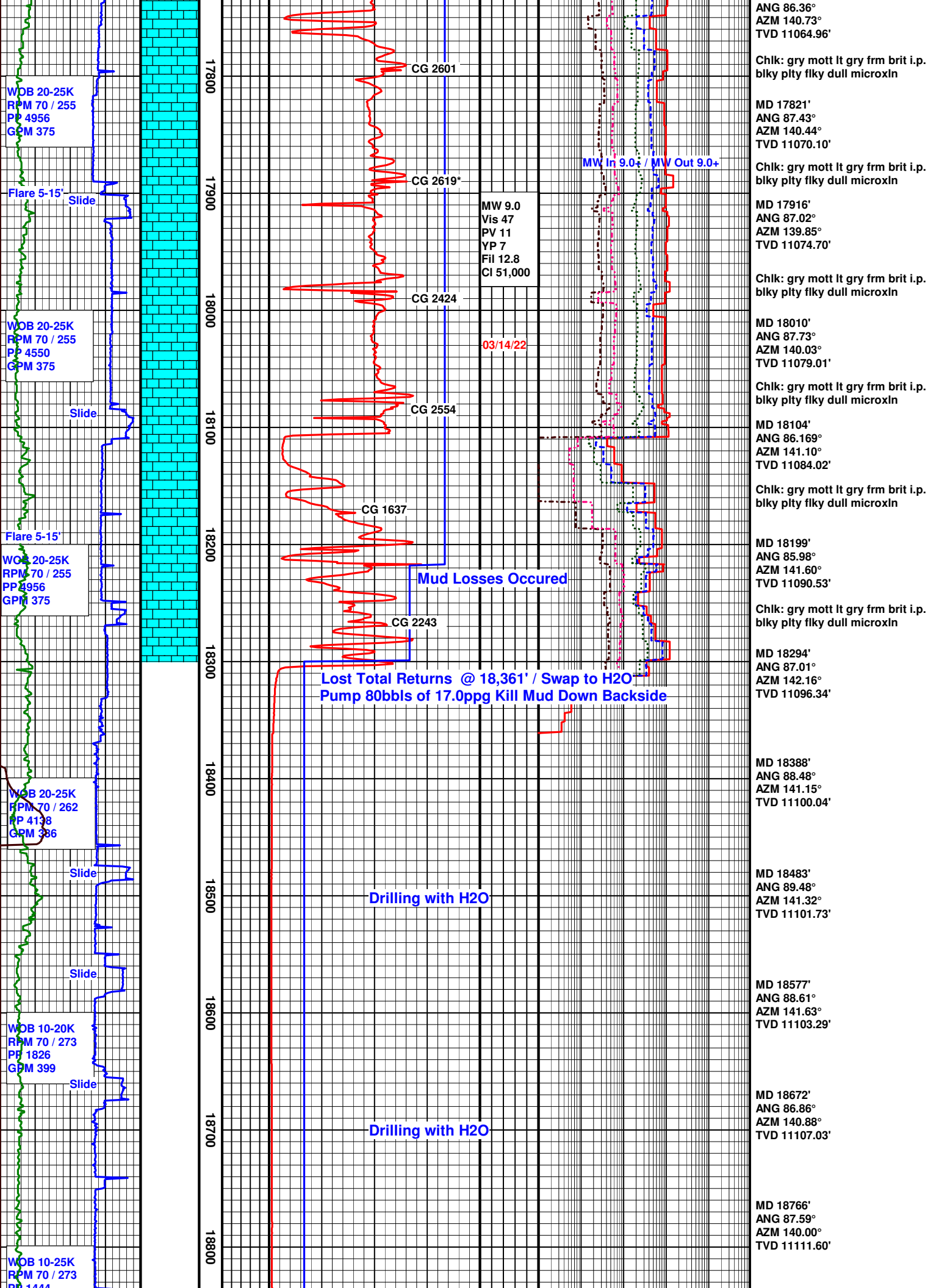


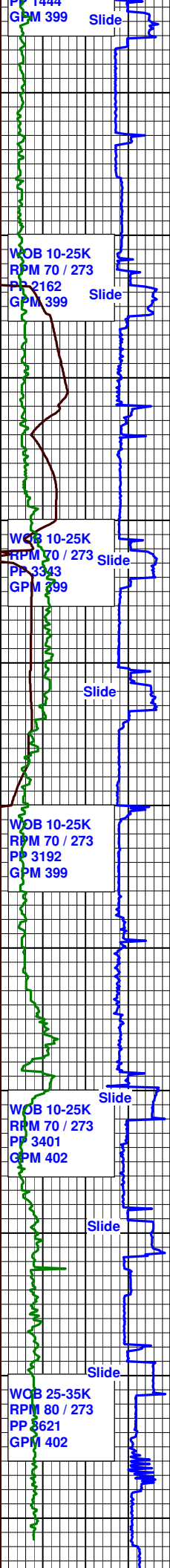












18900  
19000  
19100  
19200  
19300  
19400  
19500  
19600  
19700  
19800  
19900

Drilling with H2O

Pump 16.9ppg Kill Mud Down Backside  
Drilling with H2O

Pump 16.9ppg Kill Mud Down Backside

Pump 16.9ppg Kill Mud Down Backside

Drilling with H2O

Drilling with H2O

Drilling with H2O

Drilling with H2O

MD 18862'  
ANG 86.16°  
AZM 139.64°  
TVD 11116.83'

MD 18957'  
ANG 87.29°  
AZM 139.16°  
TVD 11122.26'

MD 19051'  
ANG 87.03°  
AZM 139.00°  
TVD 11126.92'

MD 19143'  
ANG 87.97°  
AZM 139.41°  
TVD 11130.93'

MD 19238'  
ANG 87.85°  
AZM 139.41°  
TVD 11134.39'

MD 19332'  
ANG 85.69°  
AZM 138.73°  
TVD 111339.69'

MD 19427'  
ANG 86.86°  
AZM 138.17°  
TVD 11145.86'

MD 19522'  
ANG 89.58°  
AZM 137.55°  
TVD 11148.81'

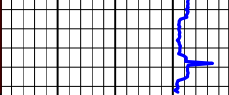
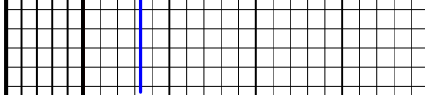
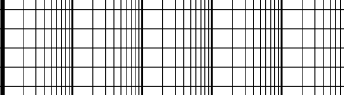
MD 19616'  
ANG 88.85°  
AZM 138.22°  
TVD 11150.10'

MD 19711'  
ANG 87.82°  
AZM 139.21°  
TVD 11152.86'

MD 19805'  
ANG 87.57°  
AZM 139.95°  
TVD 11156.64'

MD 19899'  
ANG 87.64°  
AZM 138.87°  
TVD 11160.57'

MD 19915'

									ANG 87.71° AZM 138.96° TVD 11161.22'
TD well @ 19,983' MD / 11,164' TVD			03/15/22						
Gamma 0 API 150						NButane 100 PPM 100000			
Casing Pressure 0 PSI 1000						IButane 100 PPM 100000			
ROP 600 Ft/Hr 0						Propane 100 PPM 100000			
			Kick/Loss -5 1			Ethane 100 PPM 100000			
			Total Gas 0 Units 4000			Methane 100 PPM 100000			
ROP	Lith		Frac.	Gas	Fluor	Chromatograph			Remarks