

# Décollement Consulting Inc.



Scale: 5" / 100'  
Measured Depth Log

Well Name Antelope O34-K31-20HNC

Location SE/SW Section 20, T5N - R62W

State Colorado

Country USA

API Number 05-123-38909-00

Region D.J. Basin

Spud Date 4/25/2014

County Weld

Rig Number Cade 21

Field Wattenberg

Ground Elevation 4,665'

Logged Interval 5,950'

Formation Niobrara "B" Chalk

Type of Drilling Fluid Water Based Mud

K.B. Elevation 4,682'

## Operator

Company Bonanza Creek Energy, Inc.

Address 410 17th Street, Suite 1500  
Denver, CO 80202

## Geologist

Name Dick Brunner / Scott Sawyer

Company Décollement Consulting Inc.

Address 13300 Braun Road  
Golden, CO 80401

## Rock Types

UNKNOWN	DOLOMITE	SHALE GRAY	TILL
ANHYDRITE	CHEERT	SHALE COLORED	BEN
GYPSSUM	COAL	SILTSTONE	TUFF
SALT	MARLSTONE	SANDSTONE	IGN
SIDERITE or LIMONITE	CLAYSTONE	CONGLOMERATE	MET
Limestone	SHALE	BRECCIA	

## U

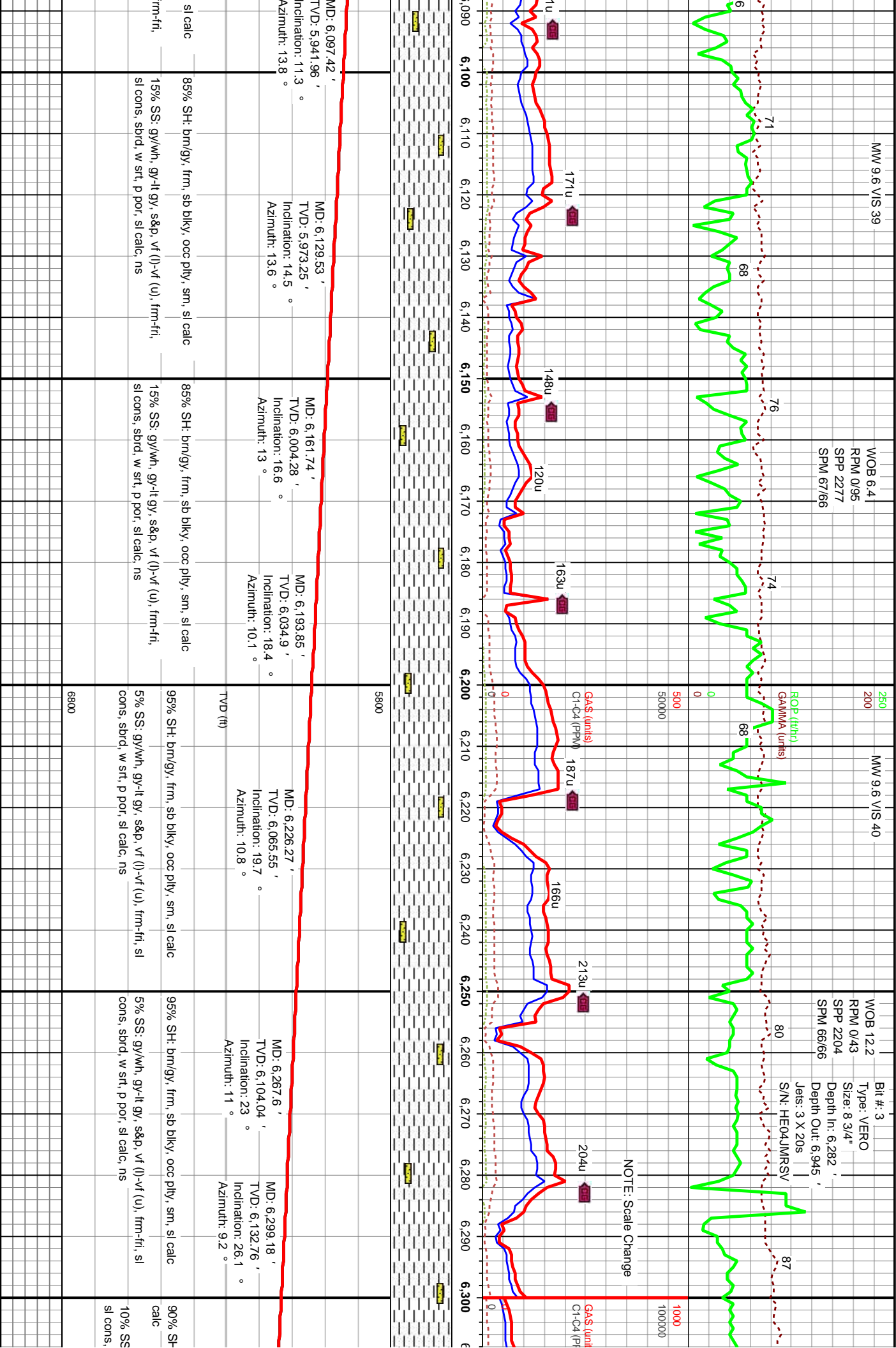
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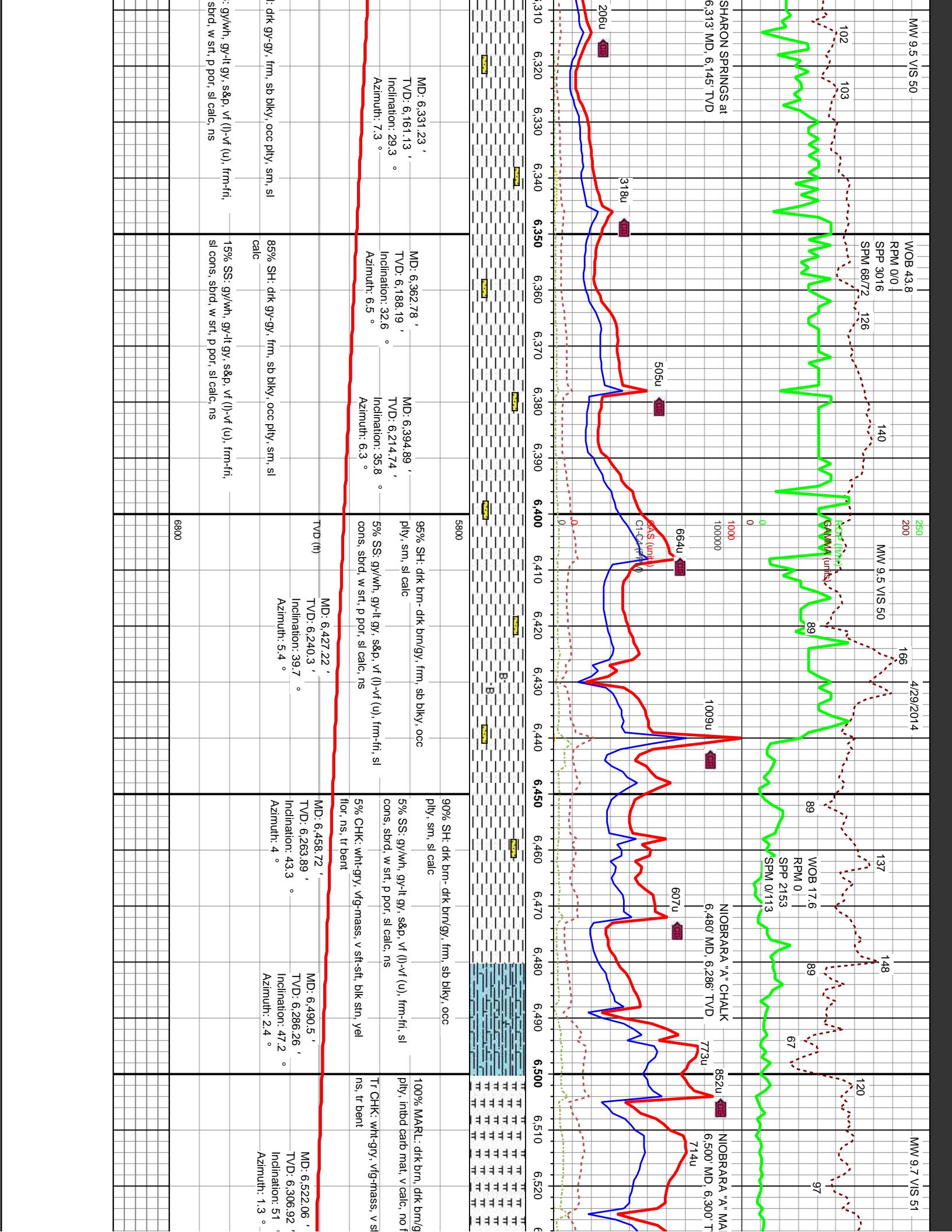
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AMORPHIC  
Chalk

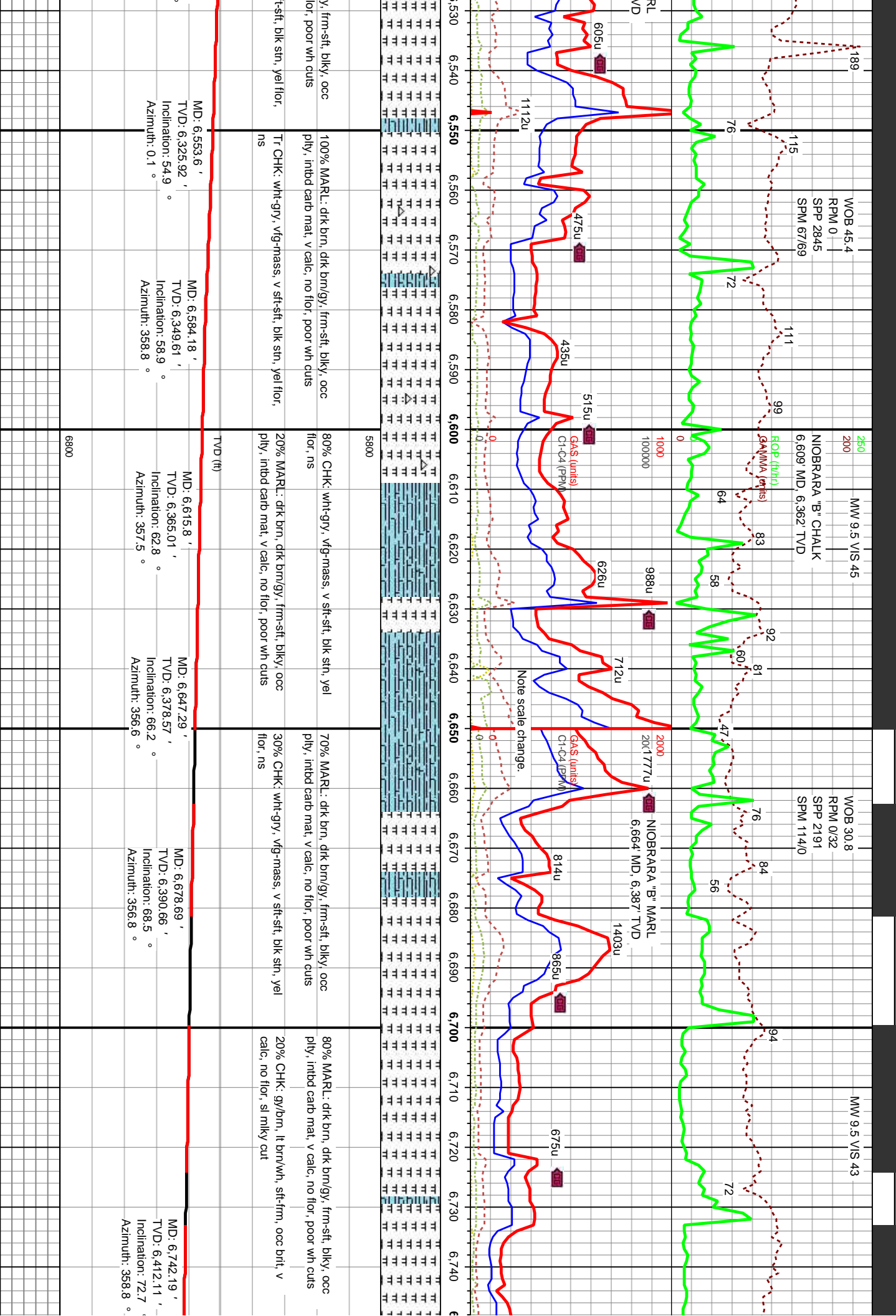
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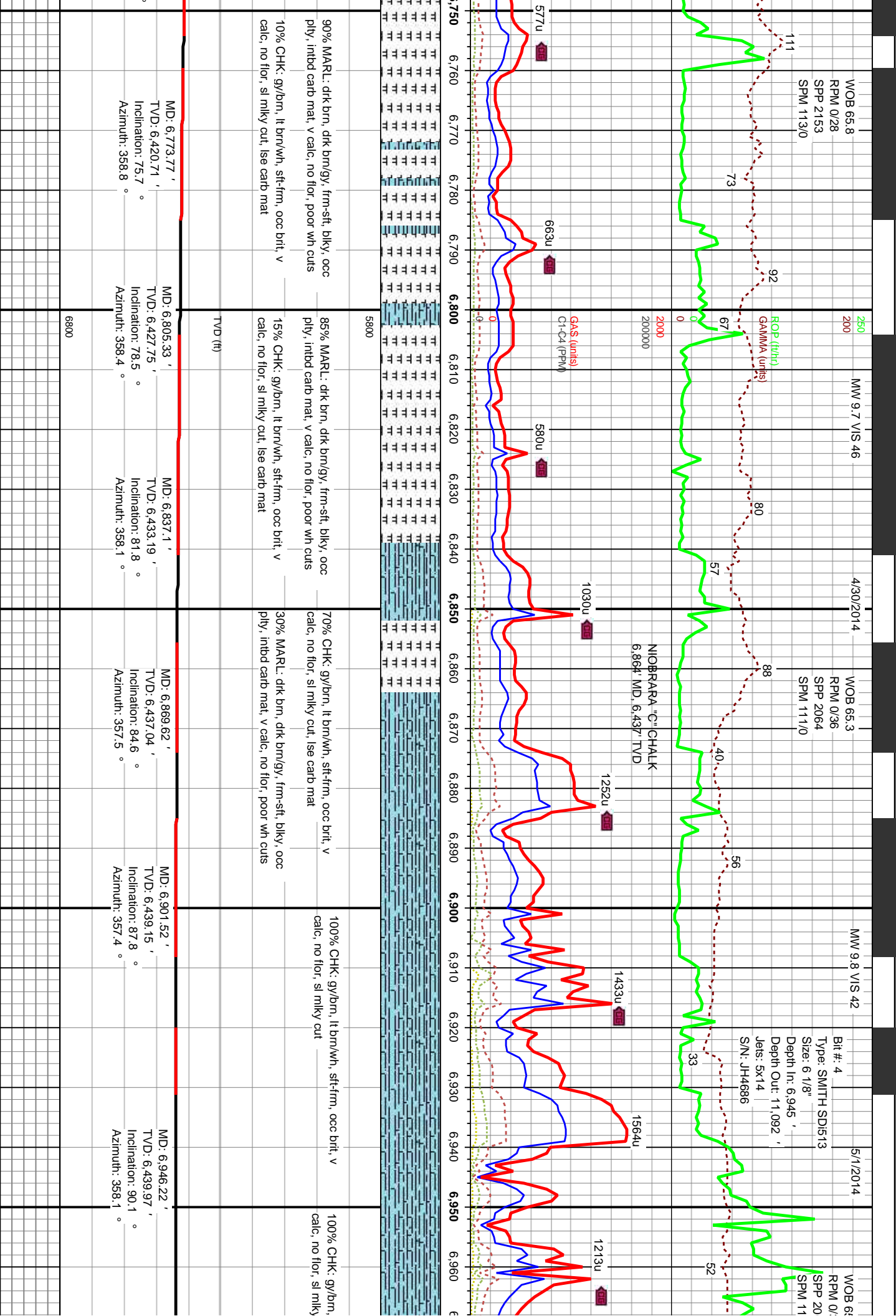
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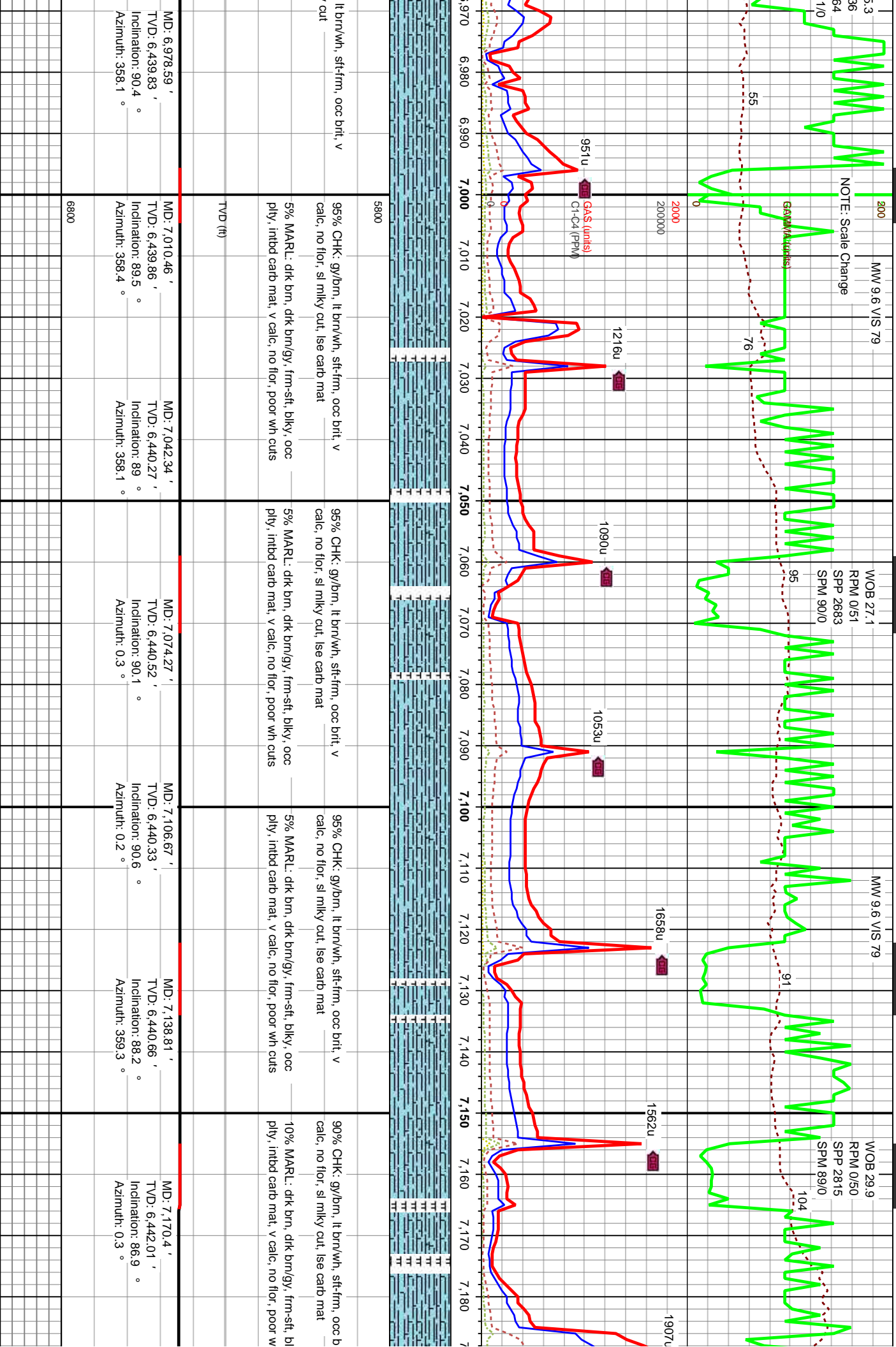


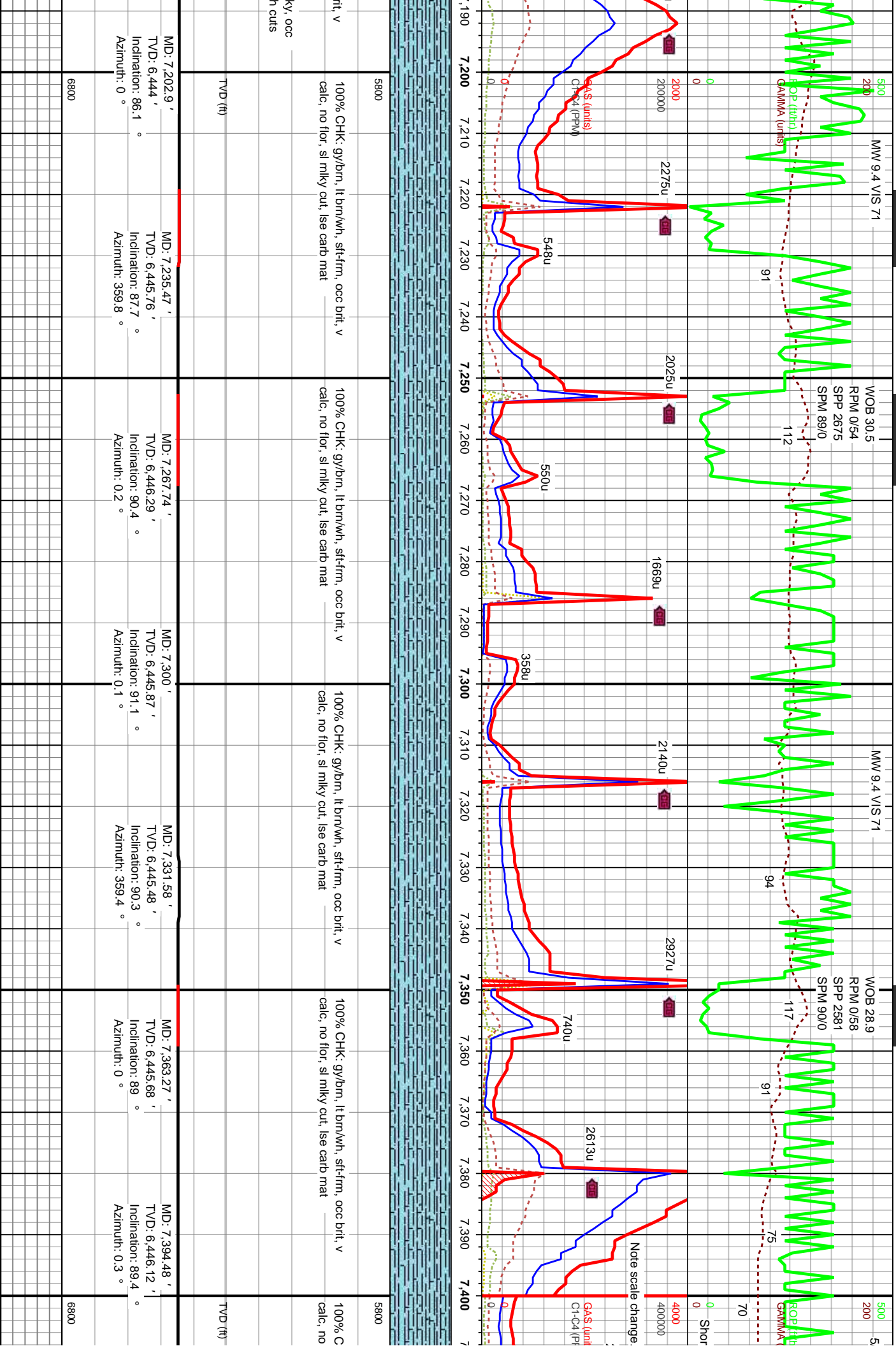


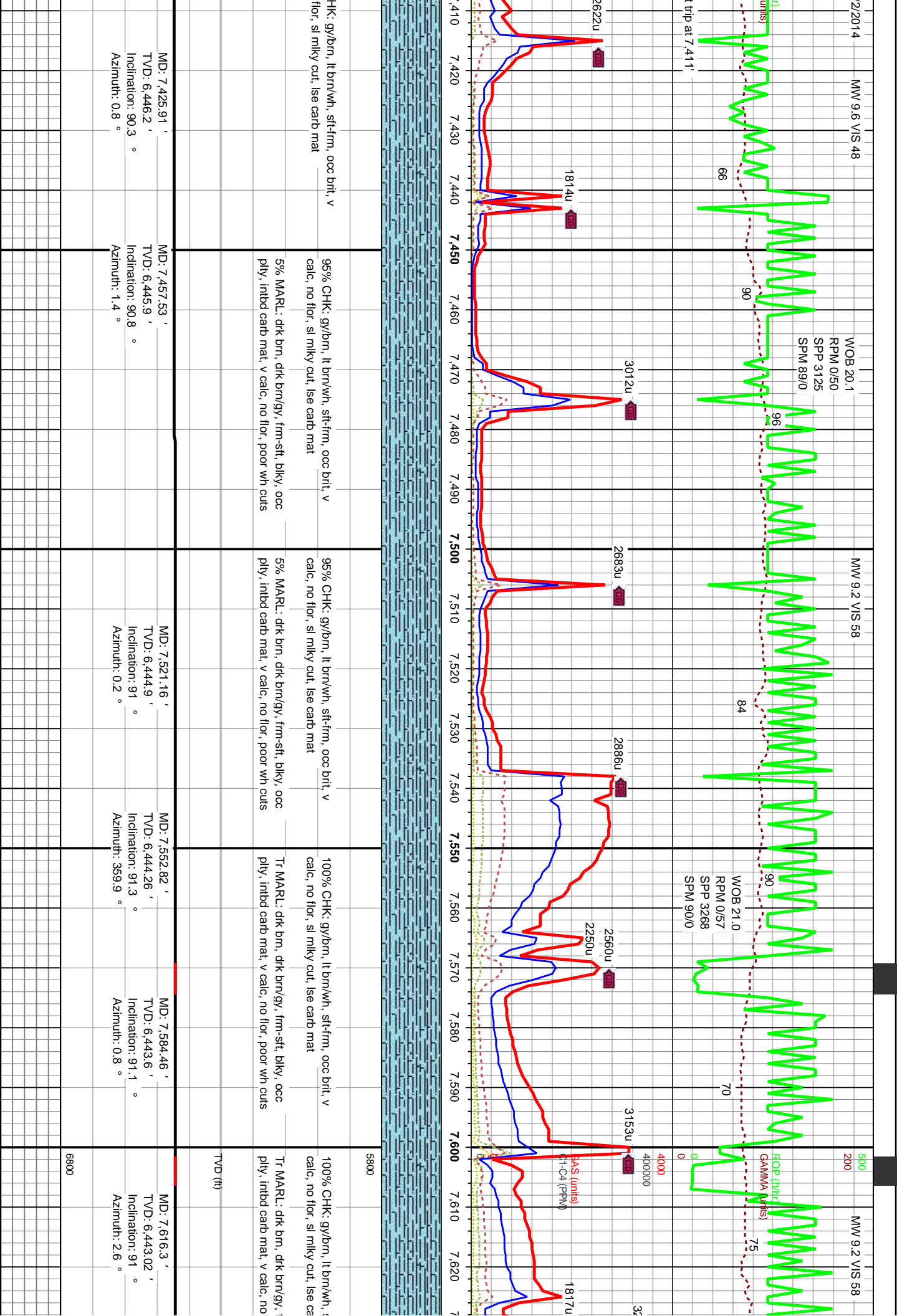


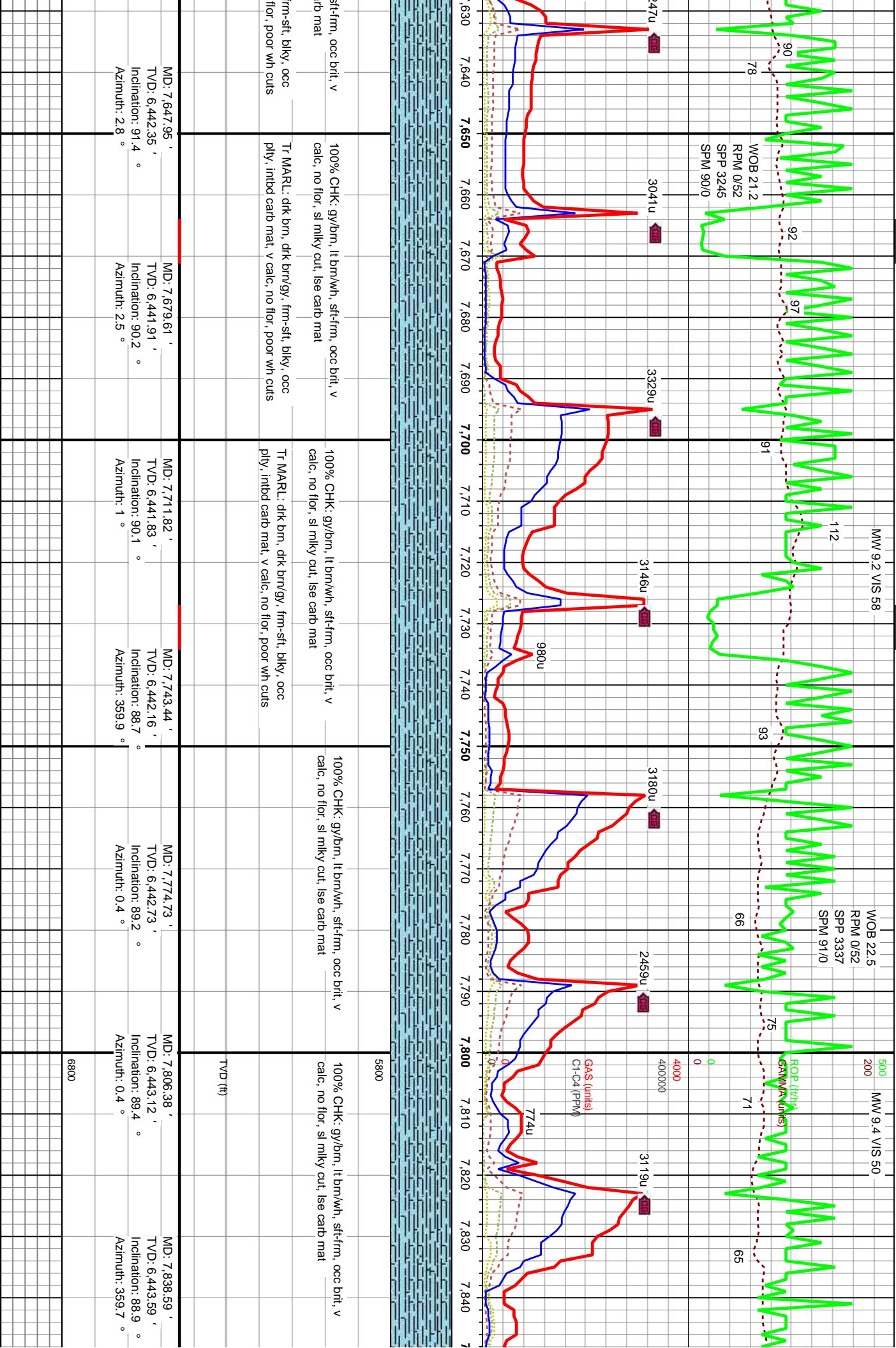




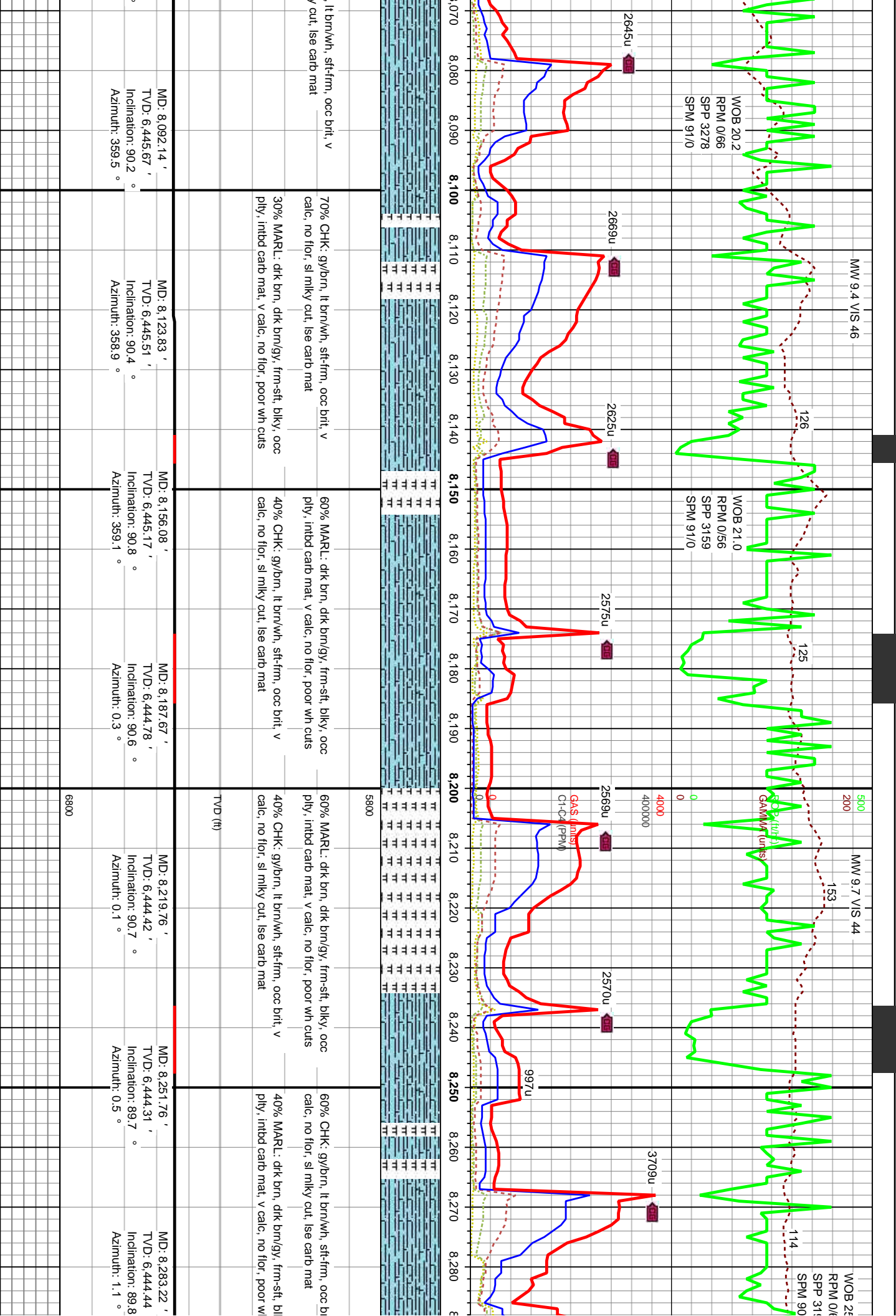


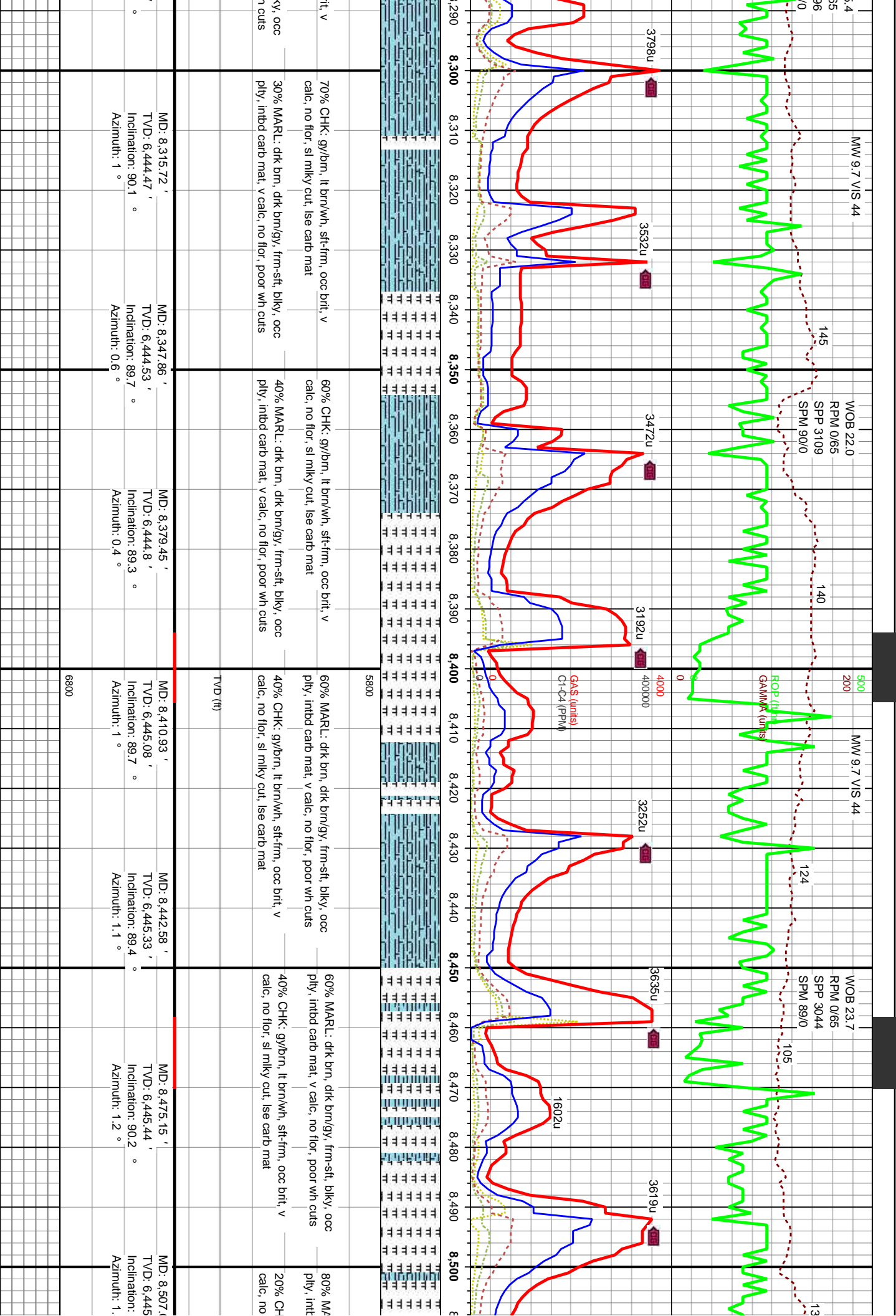


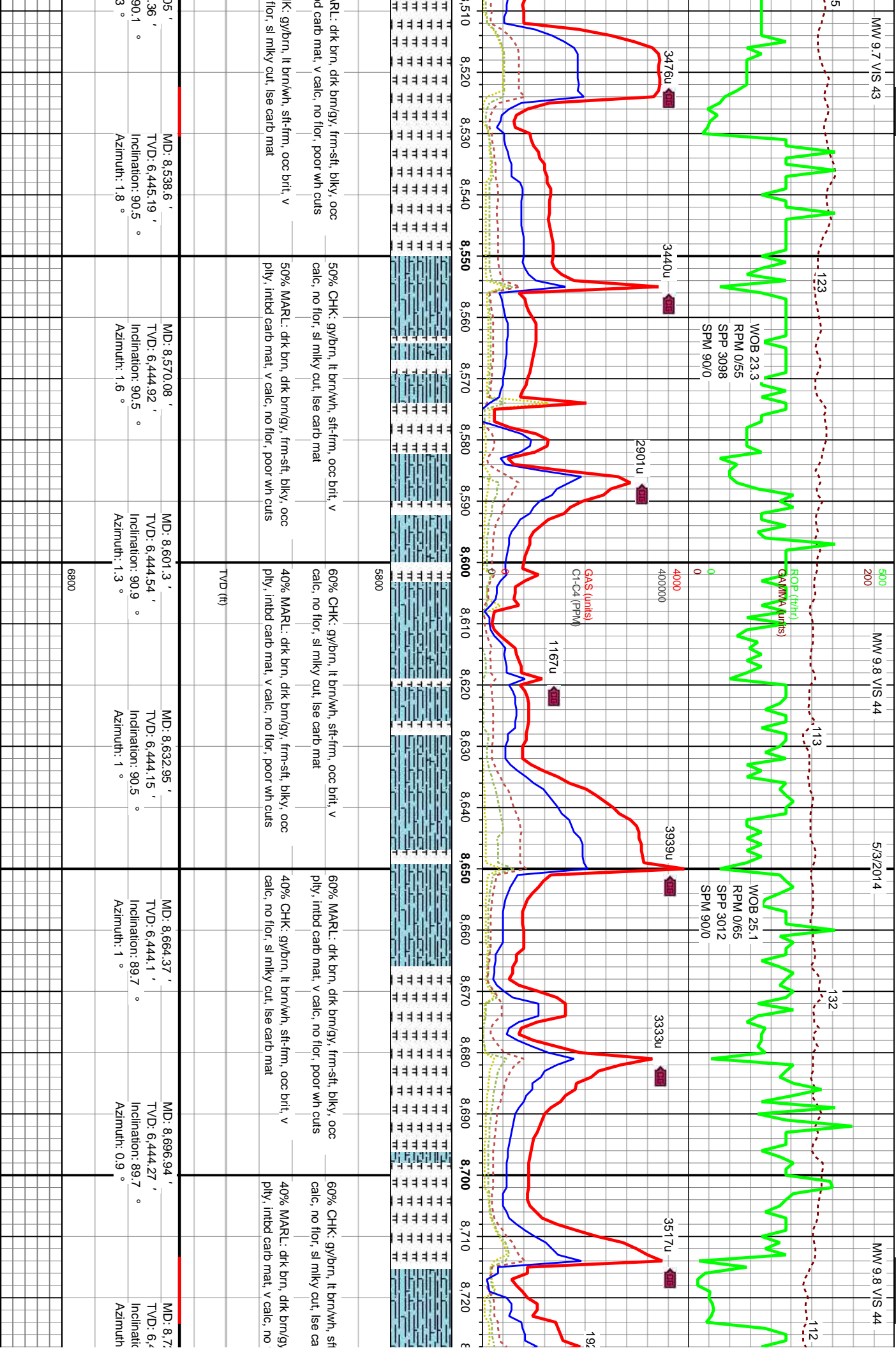


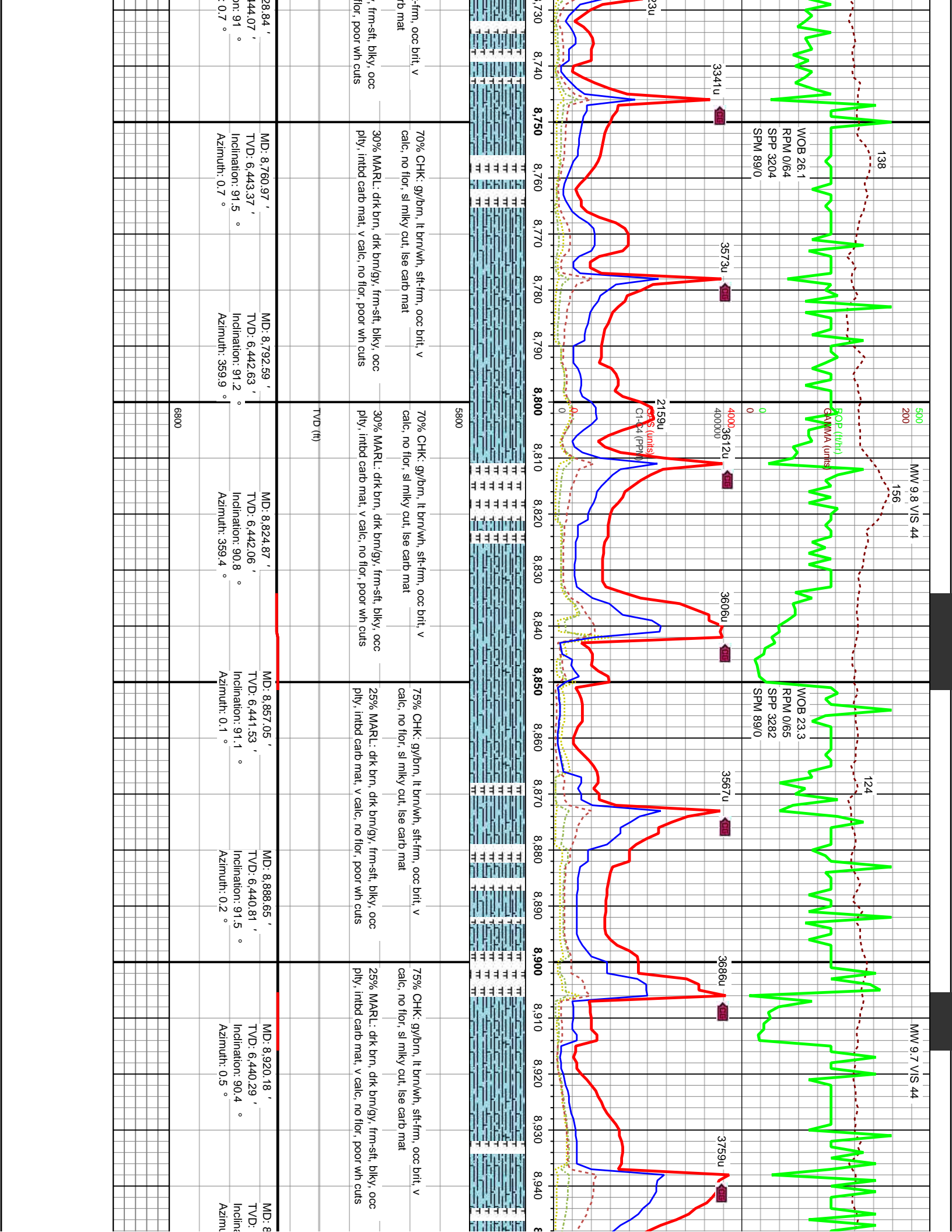


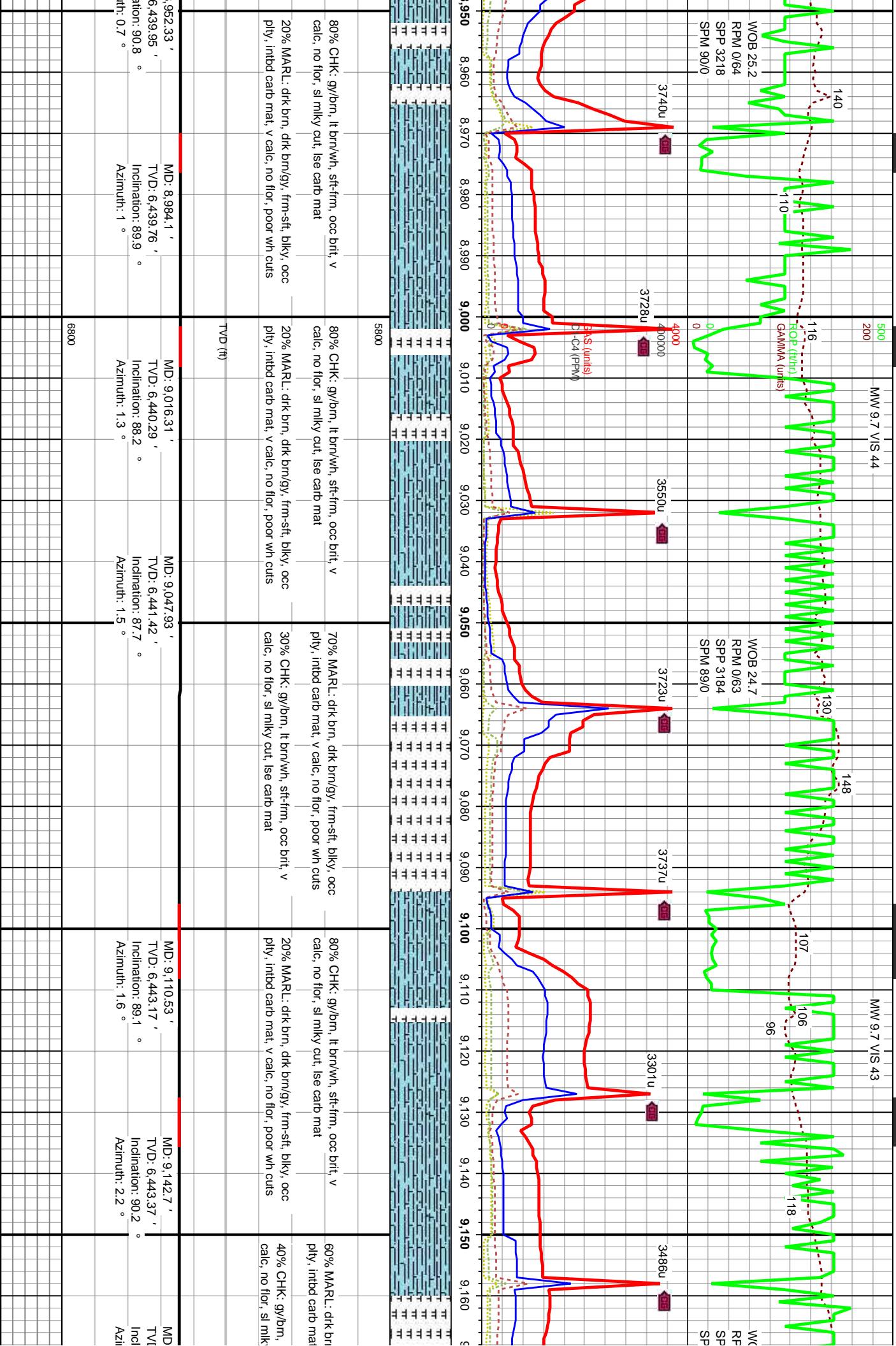


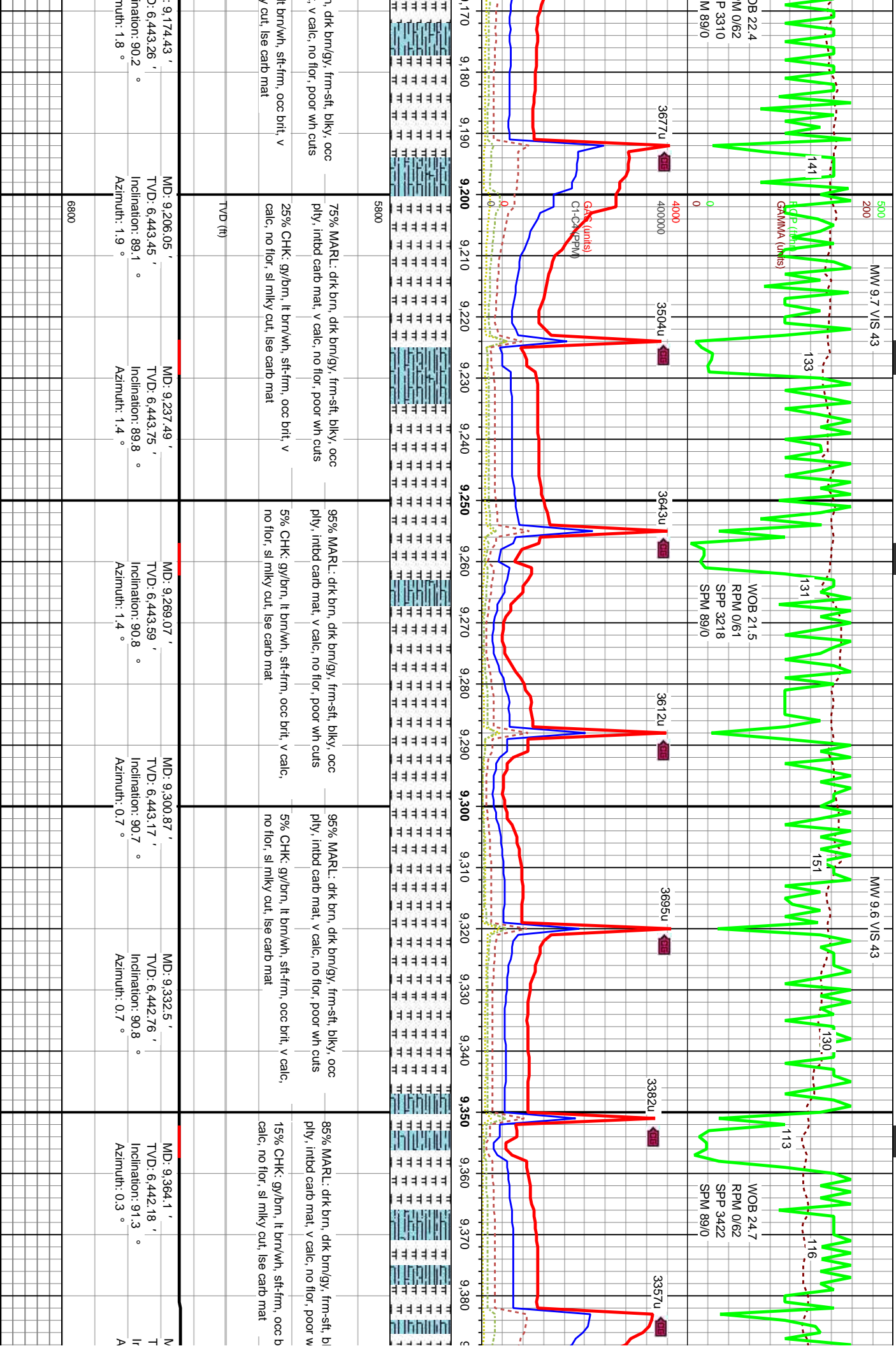


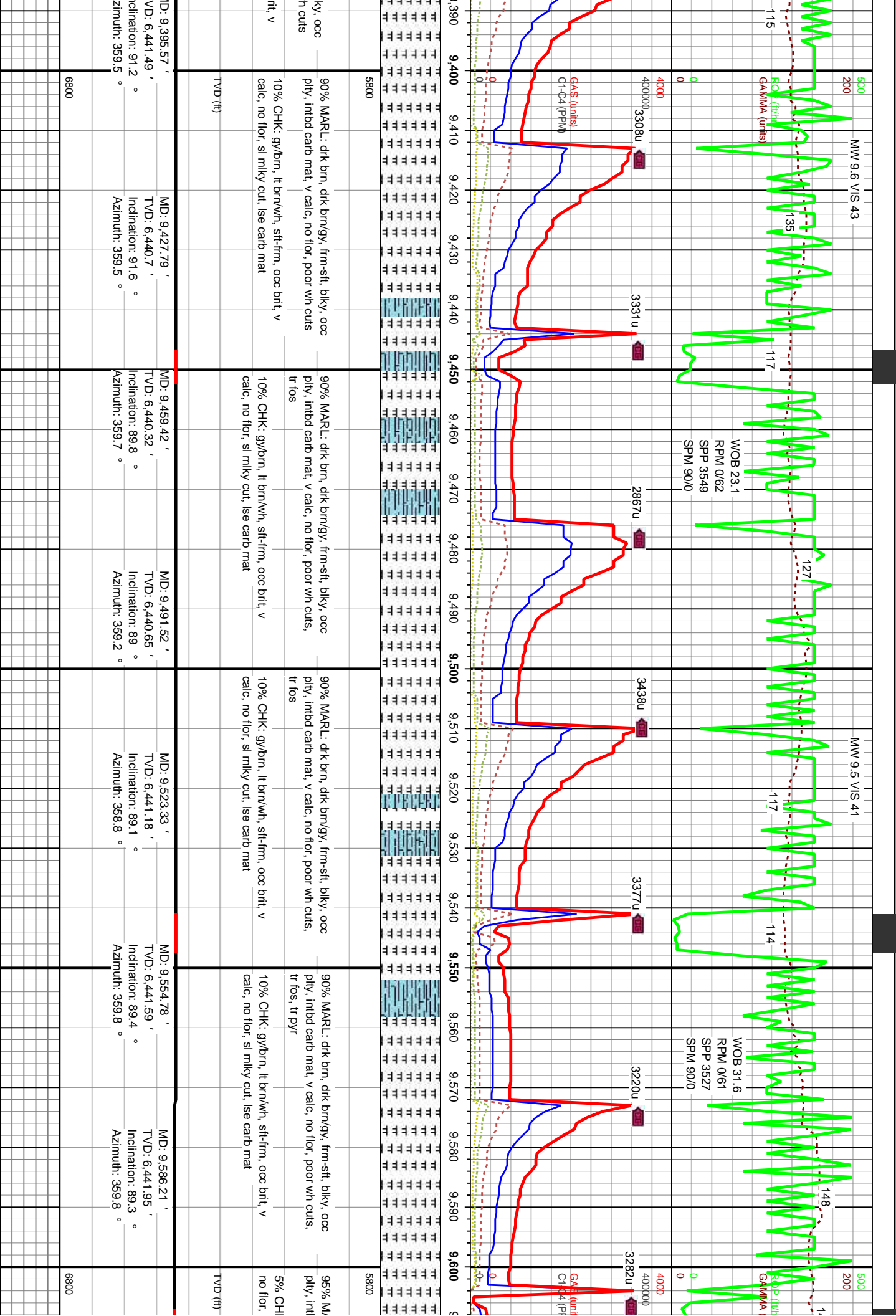


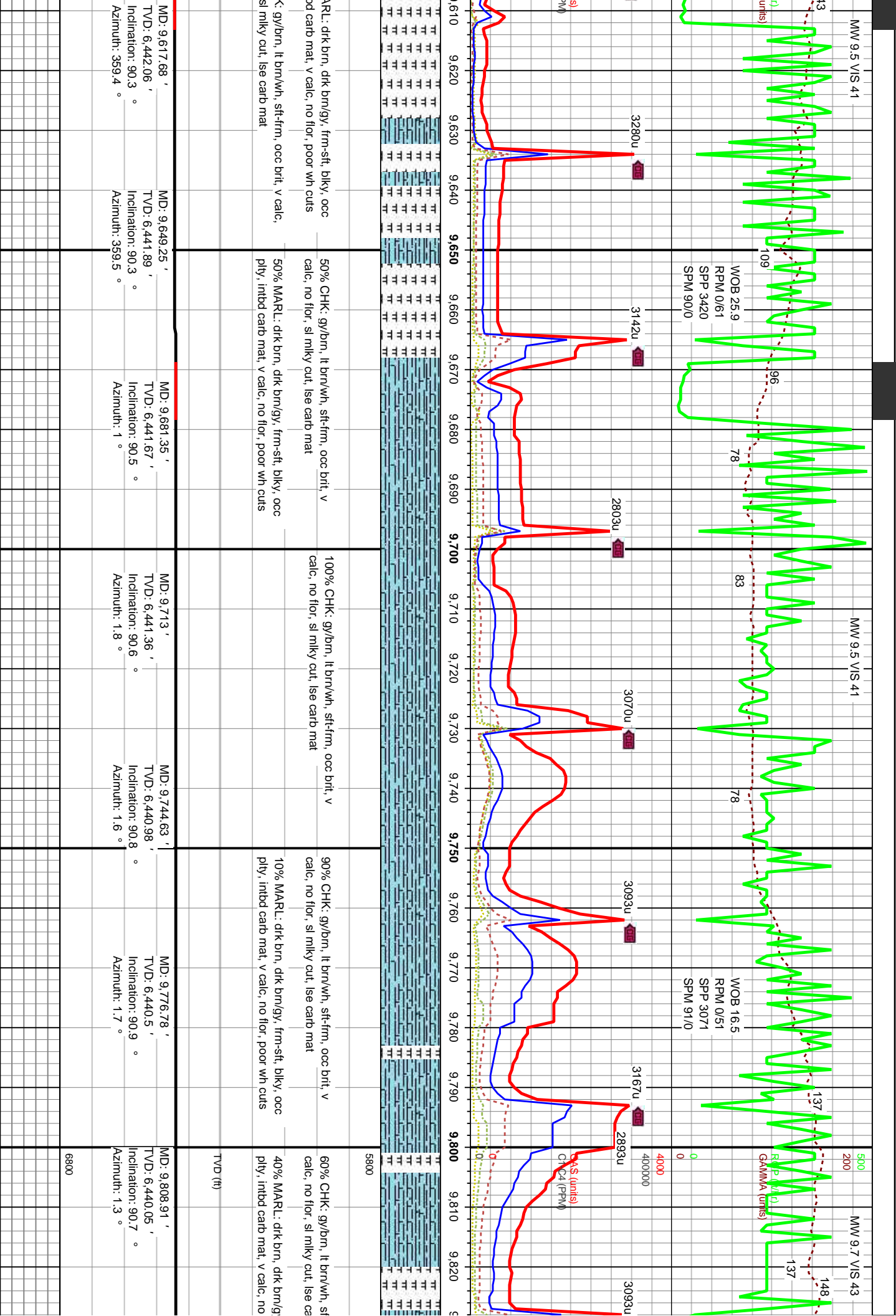


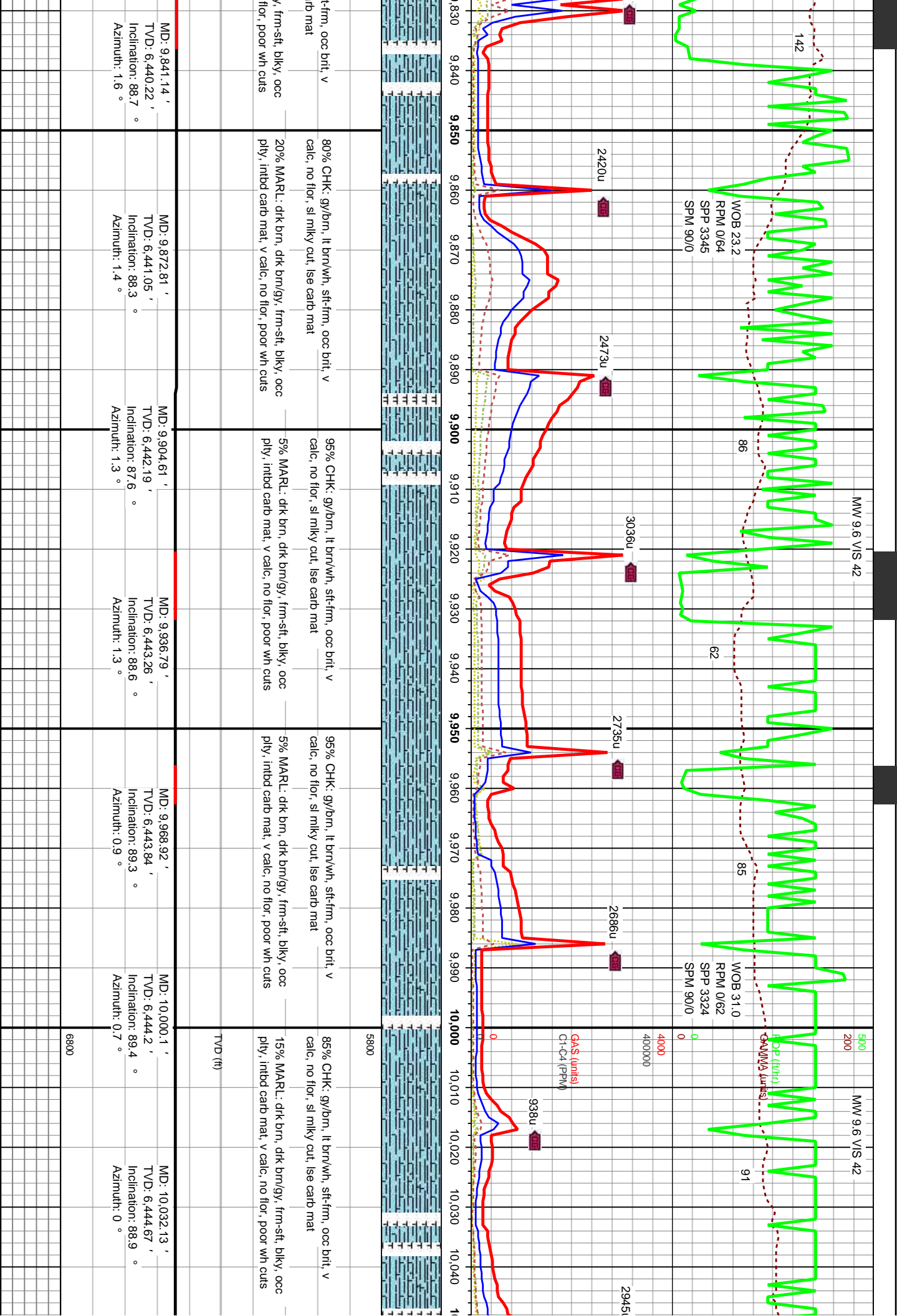


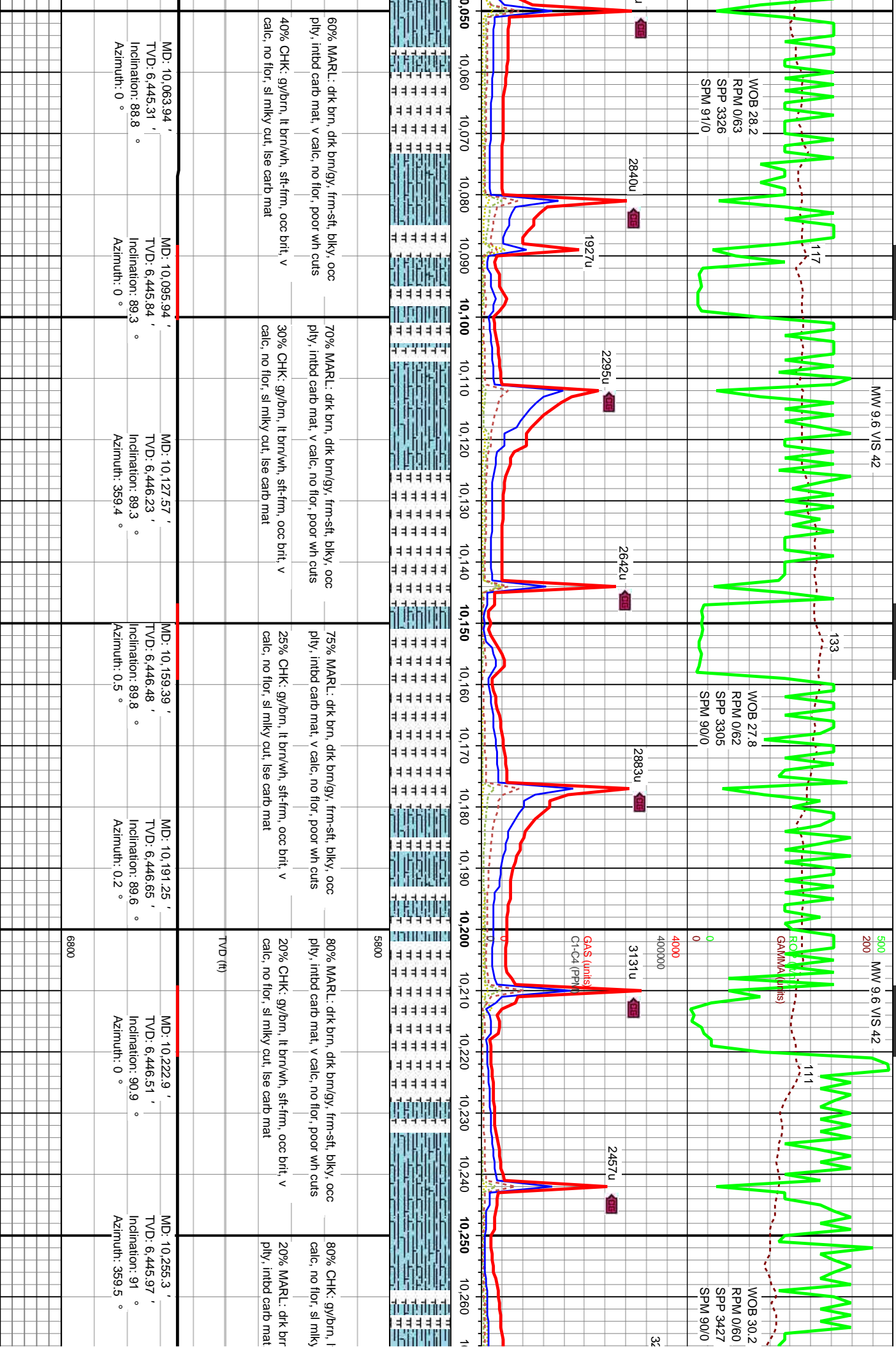


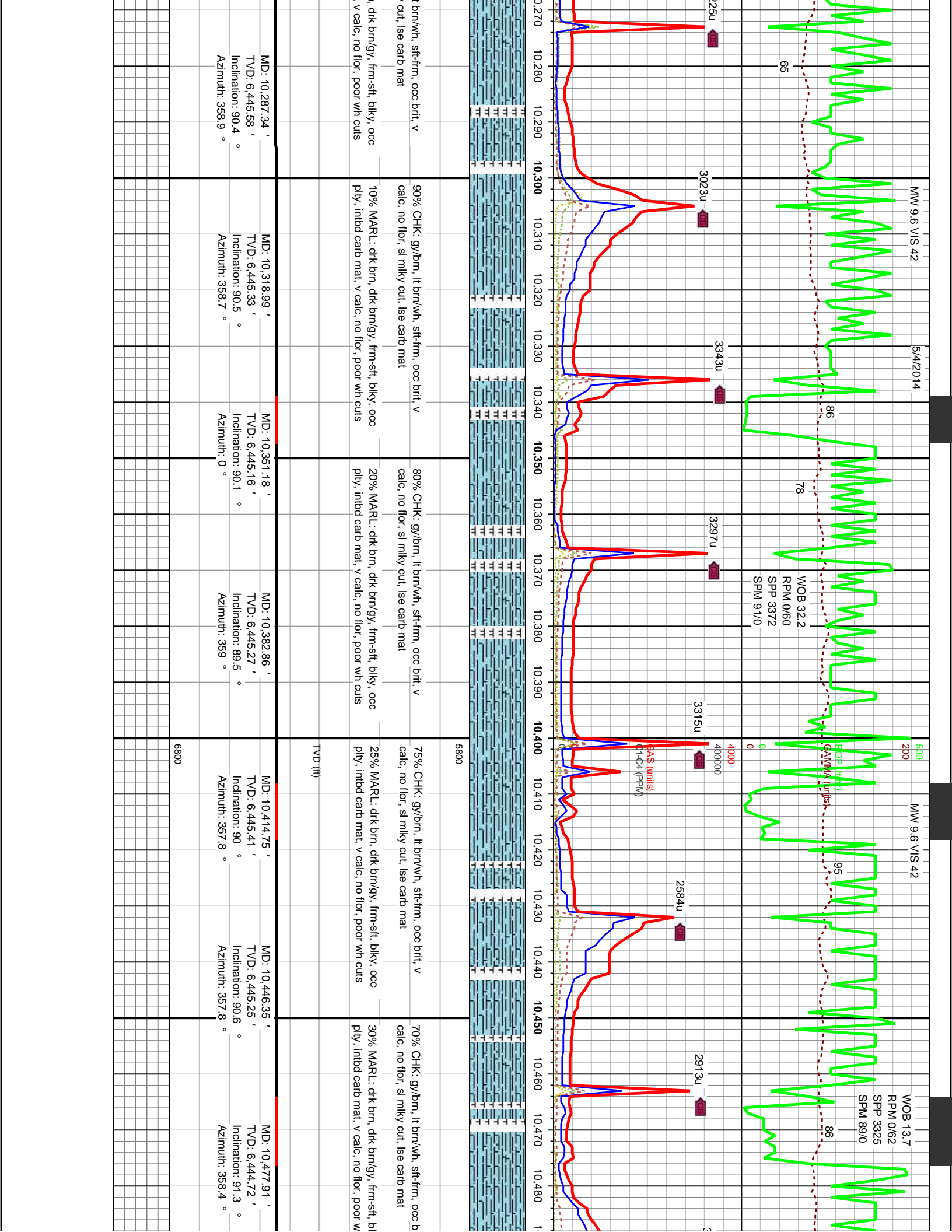


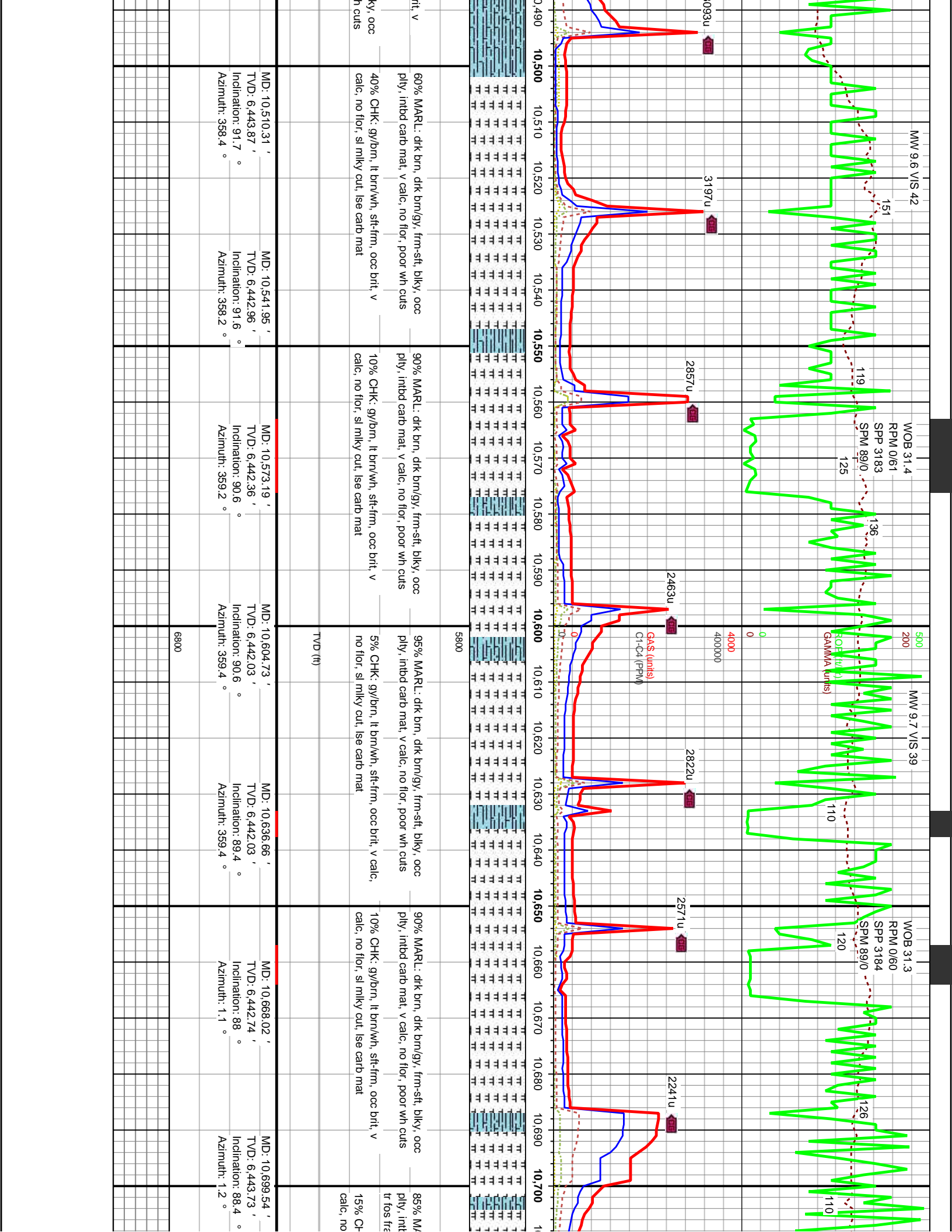


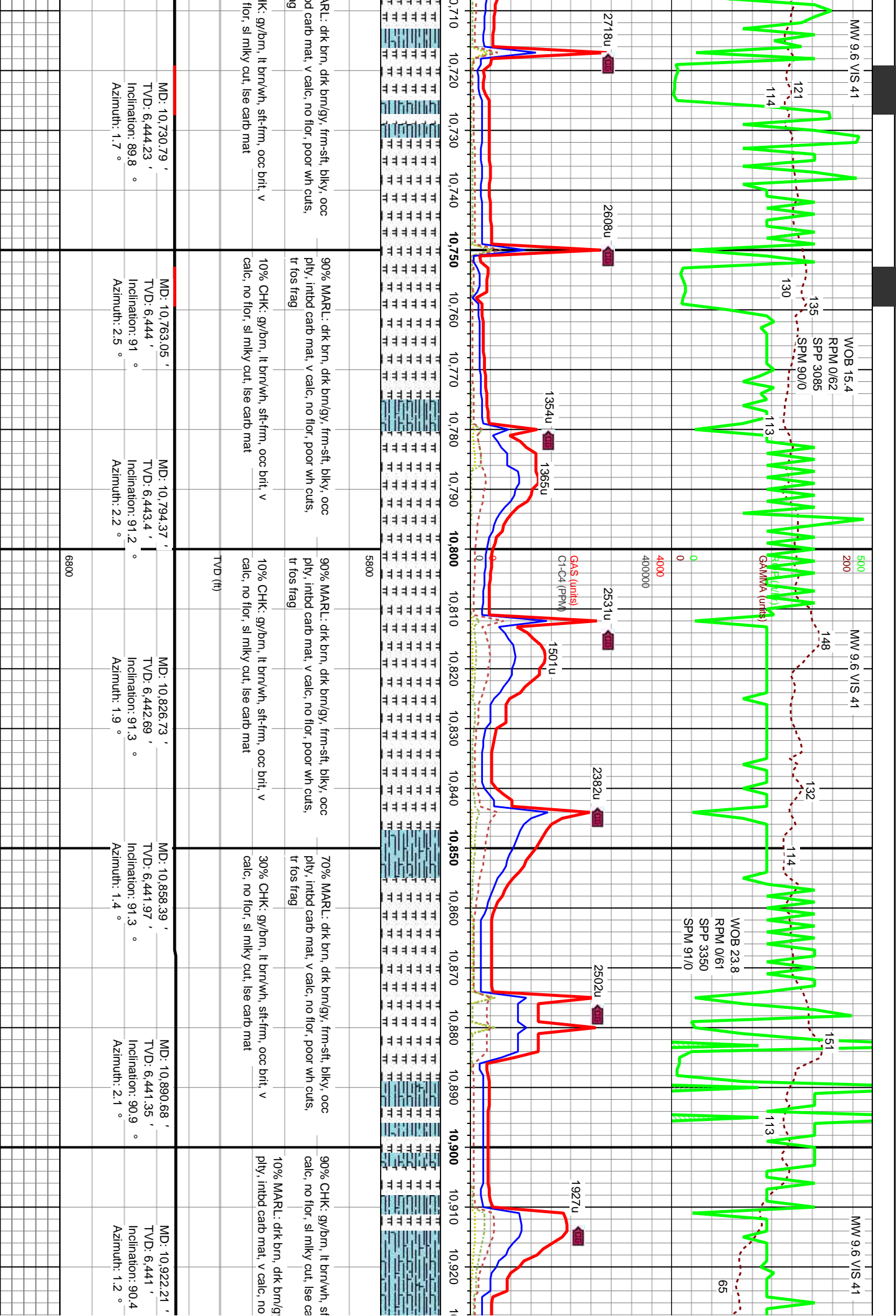


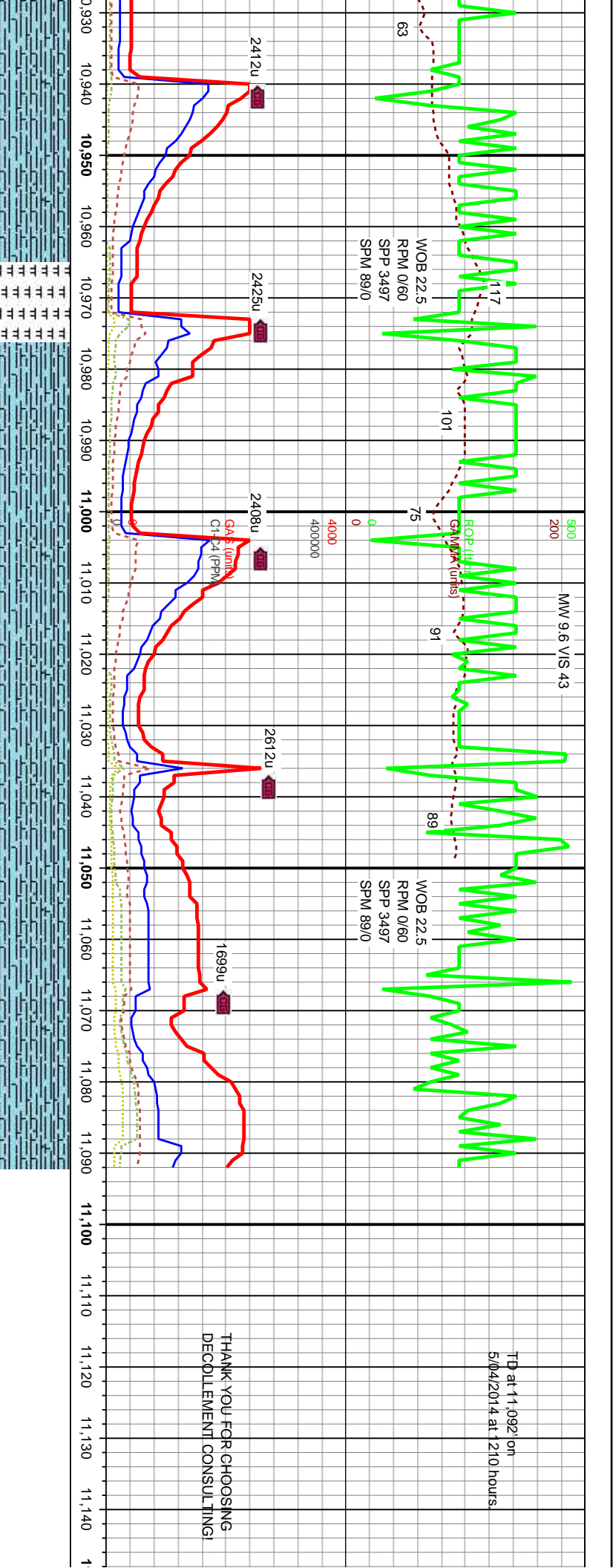












0-ftm, occ brlt, v db mat, tr fos frag	90% CHK: gy/brn, lt brn/wh, sft-fm, occ brlt, v calc, no flor, sl milky cut, lse carb mat, tr fos frag	10% MARL: dtk brn, dtk brn/gy, frm-sft, blkly, occ ply, intbd carb mat, v calc, no flor, poor wh cuts	5800	TVD (ft)
MD: 10,953.99 ' TVD: 6,440.78 ' Inclination: 90.4 ° Azimuth: 1.1 °				
MD: 10,986.44 ' TVD: 6,440.46 ' Inclination: 90.7 ° Azimuth: 0.7 °				
MD: 11,018.5 ' TVD: 6,440.1 ' Inclination: 90.6 ° Azimuth: 0.7 °				
6800				

