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## MUDLOG TVD

<b>COMPANY</b>	ExxonMobil Production
<b>WELL</b>	PCU 197-34B10
<b>FIELD</b>	PICEANCE CREEK
<b>REGION</b>	ROCKY MOUNTAIN
<b>COORDINATES</b>	39.91558 108.261224
<b>ELEVATION</b>	GL 6651.2' KB 6683.2'
<b>COUNTY, STATE</b>	RIO BLANCO, CO
<b>API INDEX</b>	05-103-11146-00
<b>SPUD DATE</b>	12/23/2008
<b>CONTRACTOR</b>	HP
<b>CO. REP.</b>	W.GARNER, S.GUYOTE
<b>RIG/TYPE</b>	# 320/FLEX 4S+
<b>LOGGING UNIT</b>	ML # 032
<b>GEOLOGISTS</b>	J.KEEVAN C.RECORD, C.PIERCE
<b>ADD. PERSONS</b>	M. PIPER, B. HICKS T. WALKER
<b>CO. GEOLOGIST</b>	CHRIS ALBA

### LOG INTERVAL

<b>DEPTHS:</b>	3,944'	<b>TO</b>	12,747'
<b>DATES:</b>	10/26/2009	<b>TO</b>	11/18/2009
<b>SCALE:</b>	5" = 100'		

### CASING DATA

16"	<b>AT</b>	130'
10.75"	<b>AT</b>	3,927'
7"	<b>AT</b>	9,005'

**AT**

### HOLE SIZE

14.75"	<b>TO</b>	3,943'
9.875"	<b>TO</b>	9,020'
6.125"	<b>TO</b>	12,747'
	<b>TO</b>	

### MUD TYPES

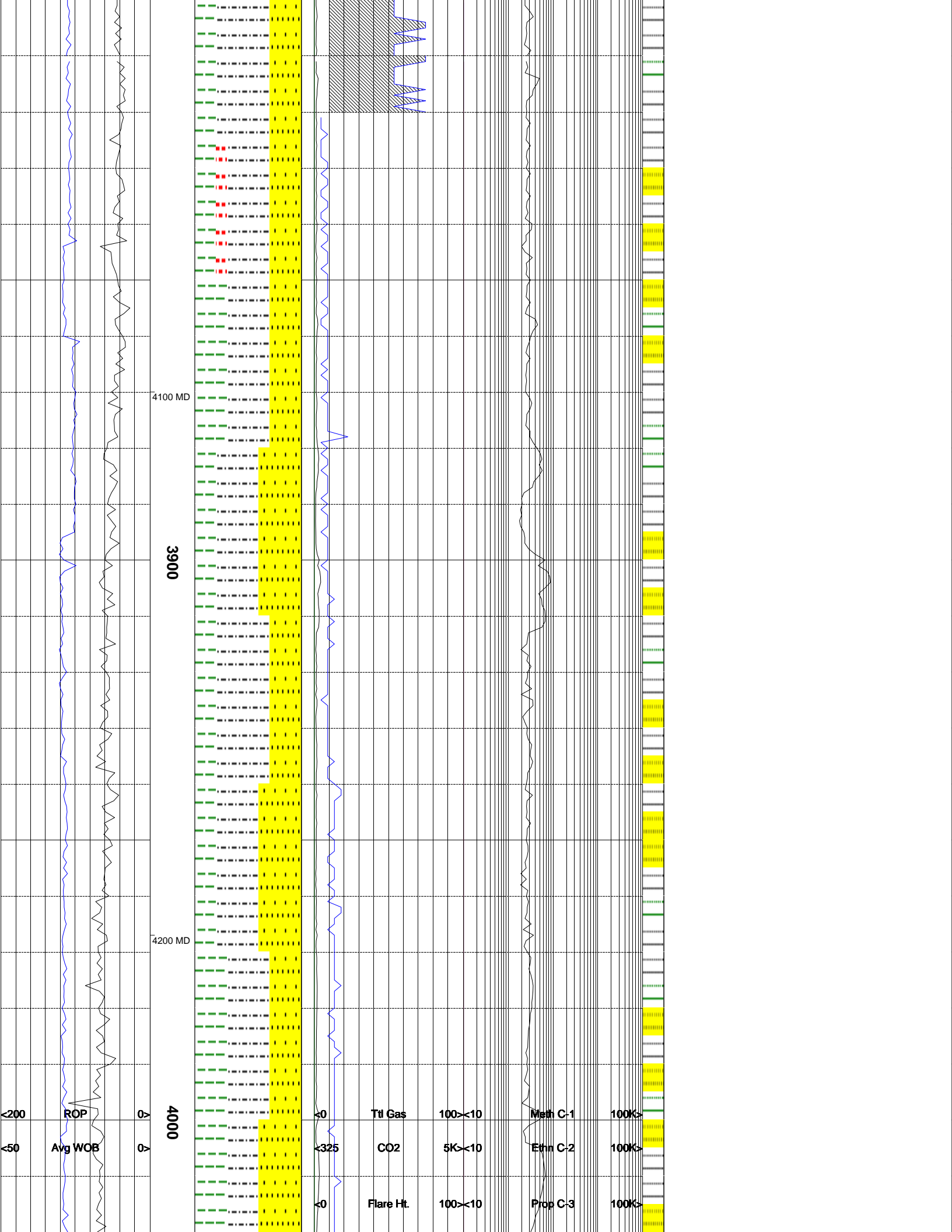
SPUD MUD	<b>TO</b>	3,943'
LSND	<b>TO</b>	12,747'
	<b>TO</b>	
	<b>TO</b>	

### ABBREVIATIONS

<i>NB</i> NEWBIT	<i>PV</i> PLASTIC VISCOSITY	<i>LC</i> LOST CIRCULATION
<i>RRB</i> RERUN BIT	<i>YP</i> YIELD POINT	<i>CO</i> CIRCULATE OUT
<i>CB</i> CORE BIT	<i>FL</i> FLUID LOSS	<i>NR</i> NO RETURNS
<i>WOB</i> WEIGHT ON BIT	<i>CL</i> PPM CLORIDE ION	<i>TG</i> TRIP GAS
<i>RPM</i> ROTARY REV/MIN	<i>Rm</i> MUD RESISTIVITY	<i>SG</i> SURVEY GAS
<i>PP</i> PUMP PRESSURE	<i>Rmf</i> FILTRATE RESISTIVITY	<i>WG</i> WIPER GAS
<i>SPM</i> STROKES/MIN	<i>PR</i> POOR RETURNS	<i>CG</i> CONNECTION GAS
<i>MW</i> MUD WEIGHT	<i>LAT</i> LOGGED AFTER TRIP	
<i>VIS</i> FUNNEL VISCOSITY	<i>LAS</i> LOGGED AFTER SURVEY	

 ALTERED ZONE	 CHERT - GLASSY	 FELSIC SILIC DIKE	 MARL - CALC	 SANDSTONE
 ANDESITE	 CHERT - PORCEL	 FOSSIL	 METAMORPHICS	 SANDSTONE-TUFFACEOUS
 ANHYDRITE	 CHERT - TIGER STRIPE	 GABBRO	 MUDSTONE	 SERICITIZATION
 BASALT	 CHERT - UNDIFF	 GLASSY TUFF	 OBSIDIAN	 SERPENTINE
 BENTONITE	 CLAY	 GRANITE	 PALEOSOL	 SHALE
 BIOTITIZATION	 CLAY-MUDSTONE	 GRANITE WASH	 PHOSPHATE	 SHALE TUFFACEOUS
 BRECCIA	 CLYST-TUFFACEOUS	 GRANODIORITE	 PORCELANITE	 SHELL FRAGMENTS
 CALCARENITE	 CHLORITIZATION	 GYPSUM	 PORCELANEOUS CLYST	 SIDERITE
 CALCAREOUS TUFF	 COAL	 HALITE	 PYRITE	 SILICIFICATION
 CALCILUTITE	 CONGLOMERATE	 HORNBL-QTZ-DIO	 PYROCLASTICS	 SILTSTONE
 CARBONATES	 CONGL. SAND	 IGNEOUS (ACIDIC)	 QUARTZ DIORITE	 SILTST-TUFFACEOUS
 CARBONACEOUS MAT	 CONGL. SANDSTONE	 IGNEOUS (BASIC)	 QUARTZ LATITE	 TUFF
 CARBONACEOUS SH	 COQUINA	 INTRUSIVES	 QUARTZ MONZONITE	 VOLCANICLASTICS SEDS
 CEMENT CONTAM.	 DACITE	 KAOLINITIC	 RECRYSTALLIZED CALCITE	 VOLCANICS
 CHALK	 DIATOMITE	 LIMESTONE	 RHYOLITE	
 CRYSTALLINE TUFF	 DIORITE	 LITHIC TUFF	 SALT	
 CHERT - ARGILL	 DOLOSTONE	 MARL - DOLO	 SAND	

[illegible]



4100 MD

3900

4200 MD

4000

<200

ROP

Δ

<50

Avg WOB

▽

<0

Ttl Gas

100×10

Meth C-1

100K>

<325

CO2

5K×10

Ethn C-2

100K>

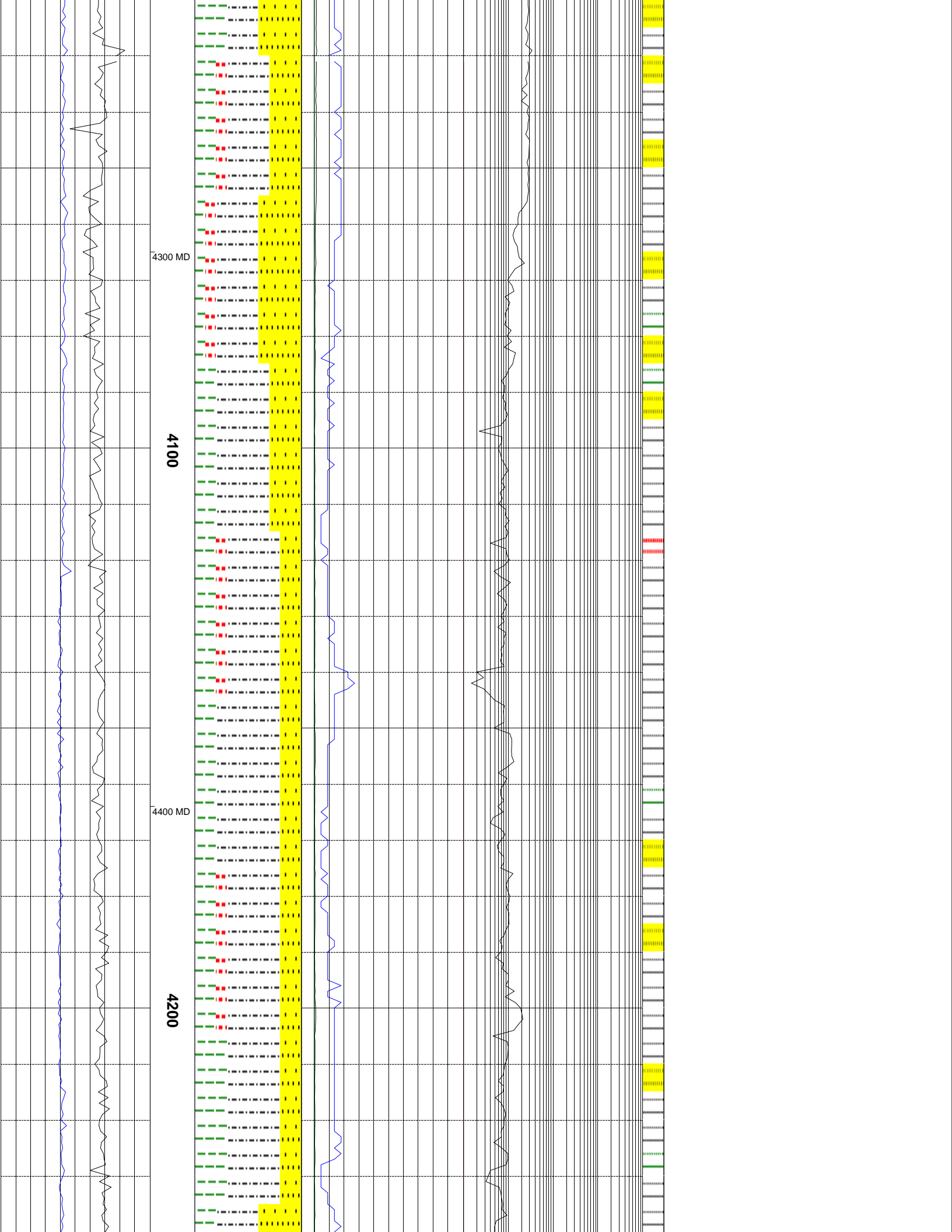
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Flare Ht.

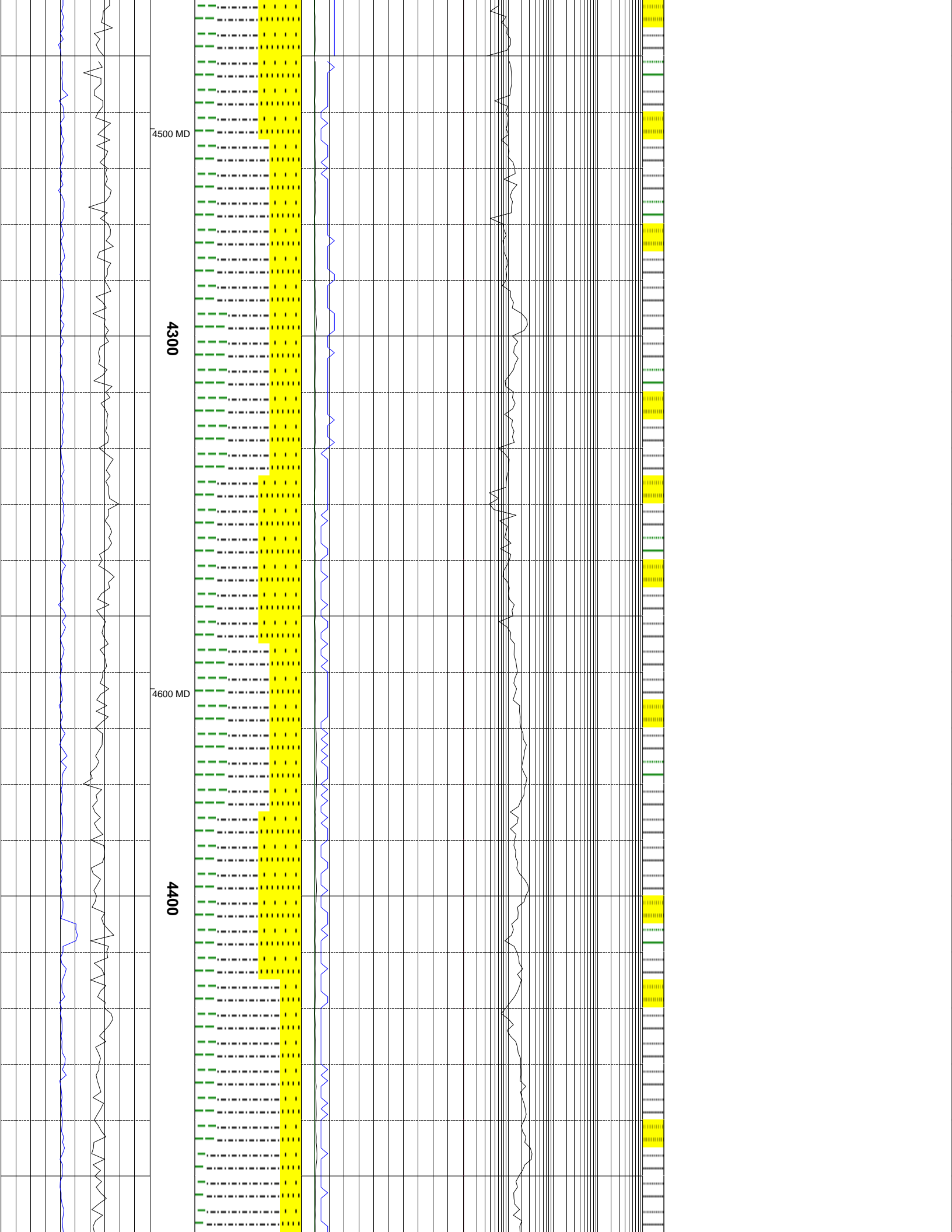
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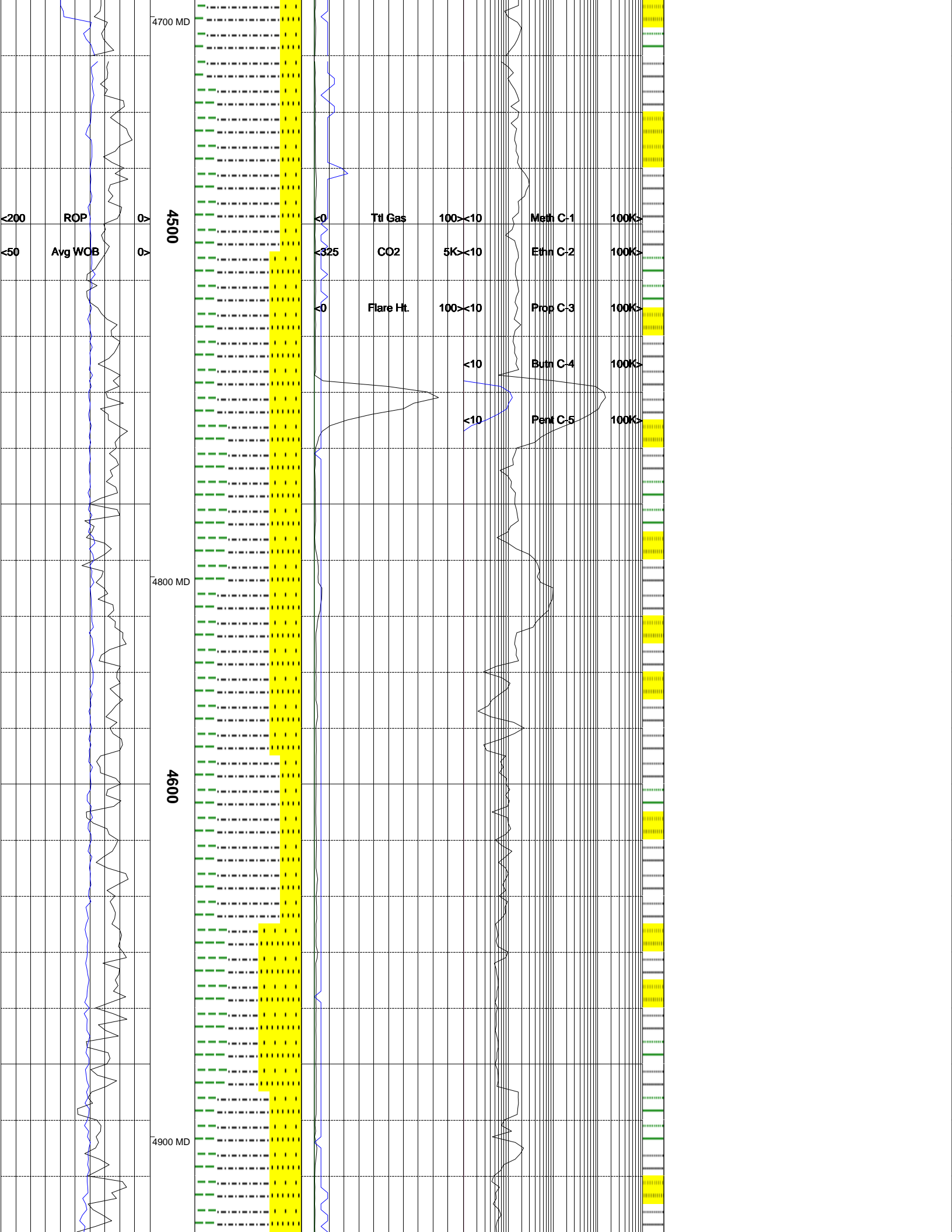
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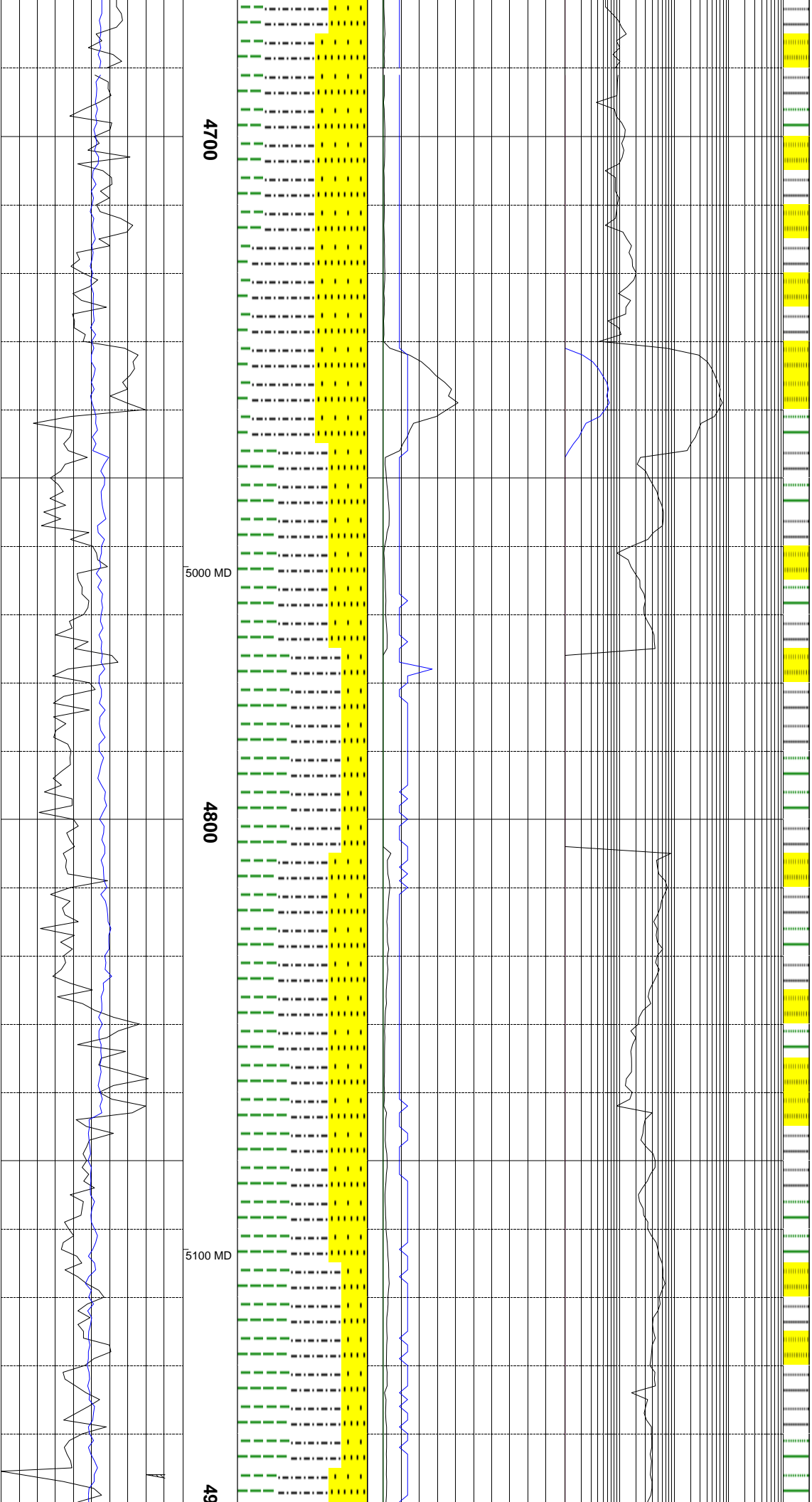
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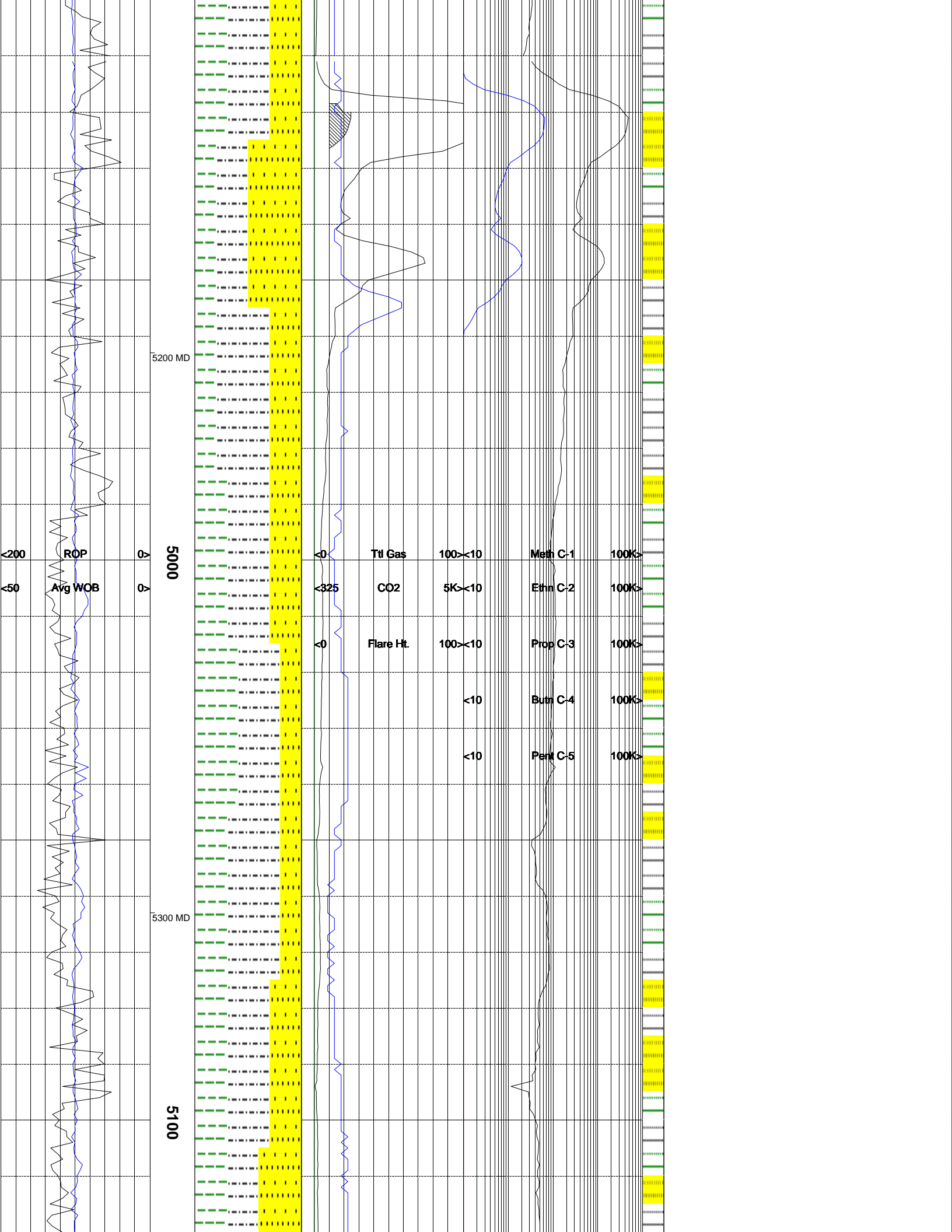


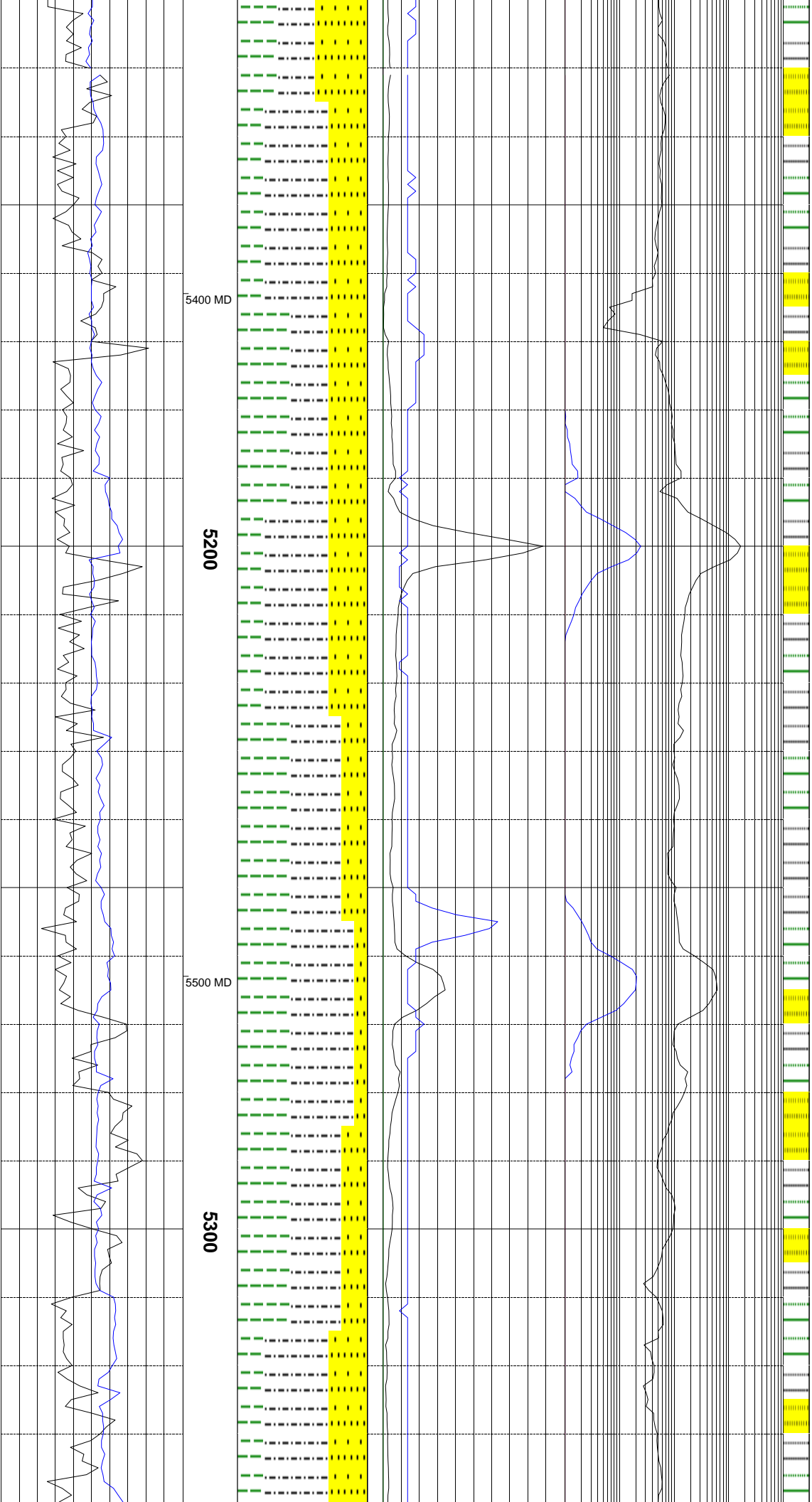


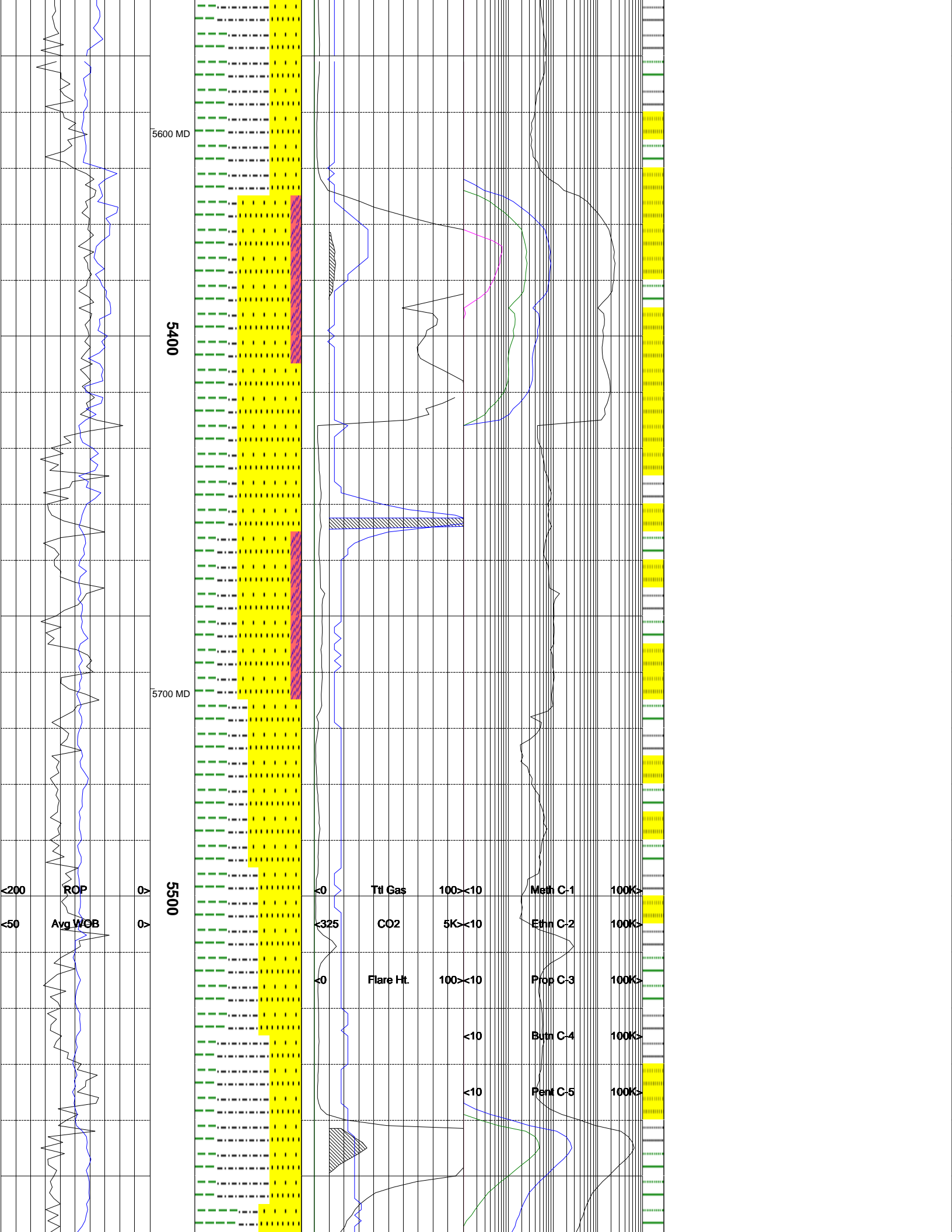


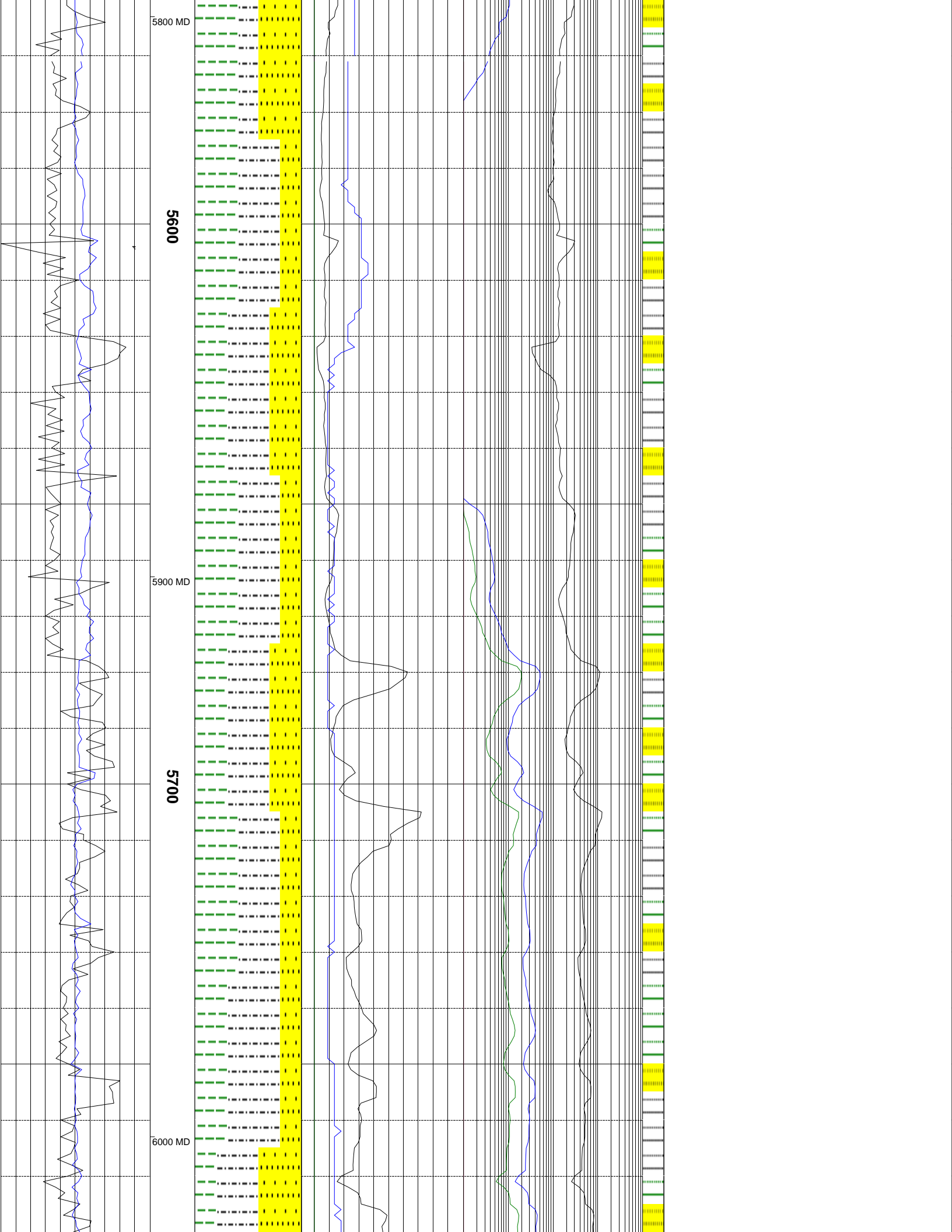


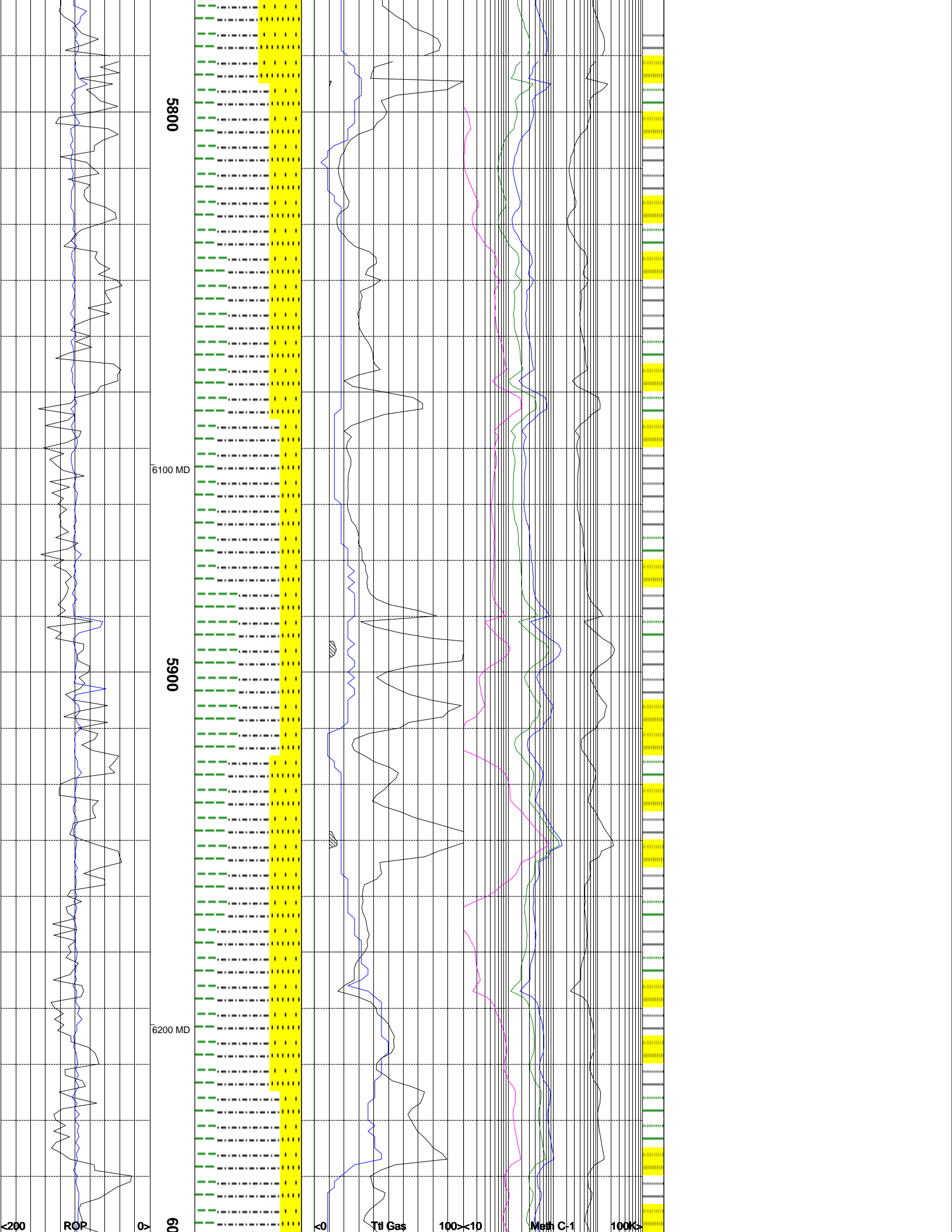




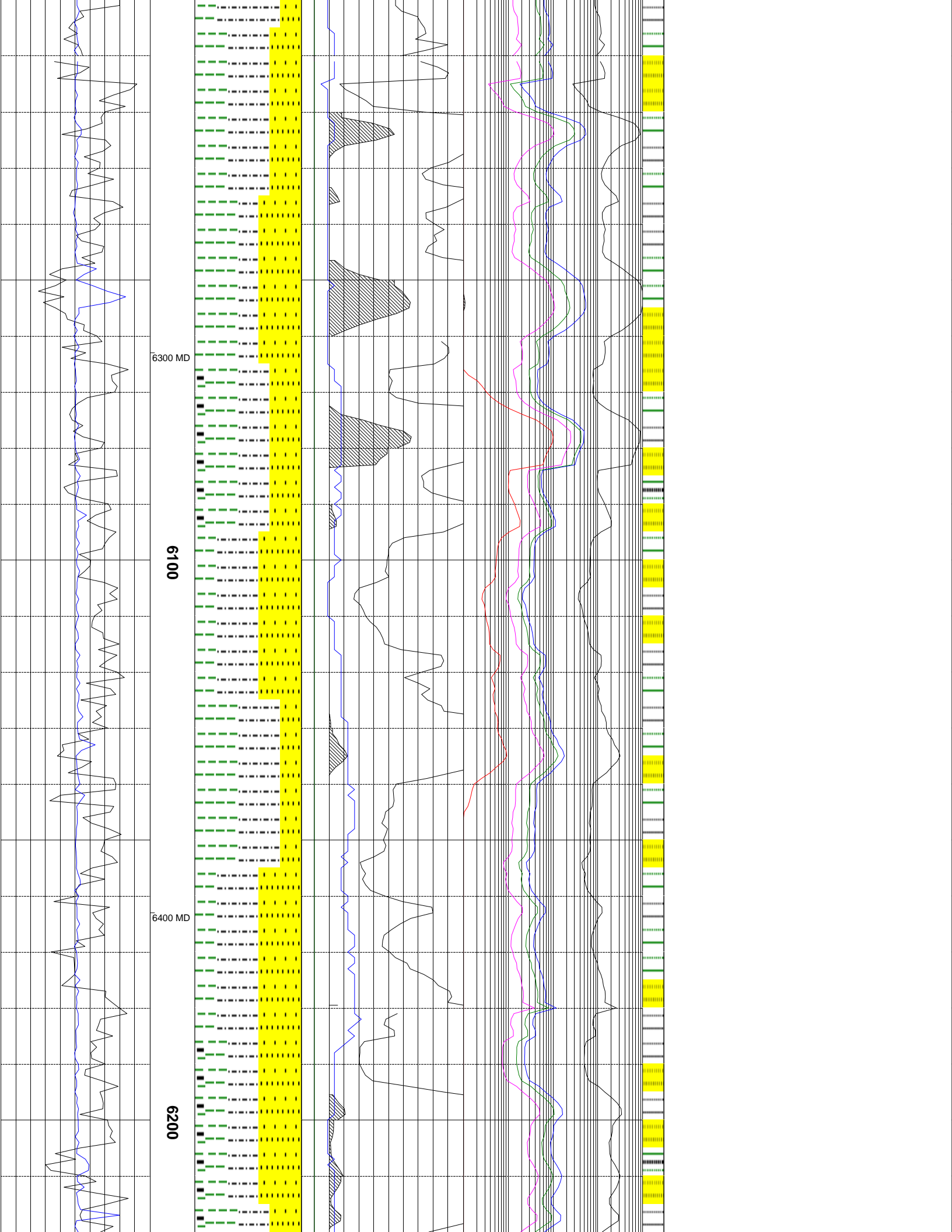


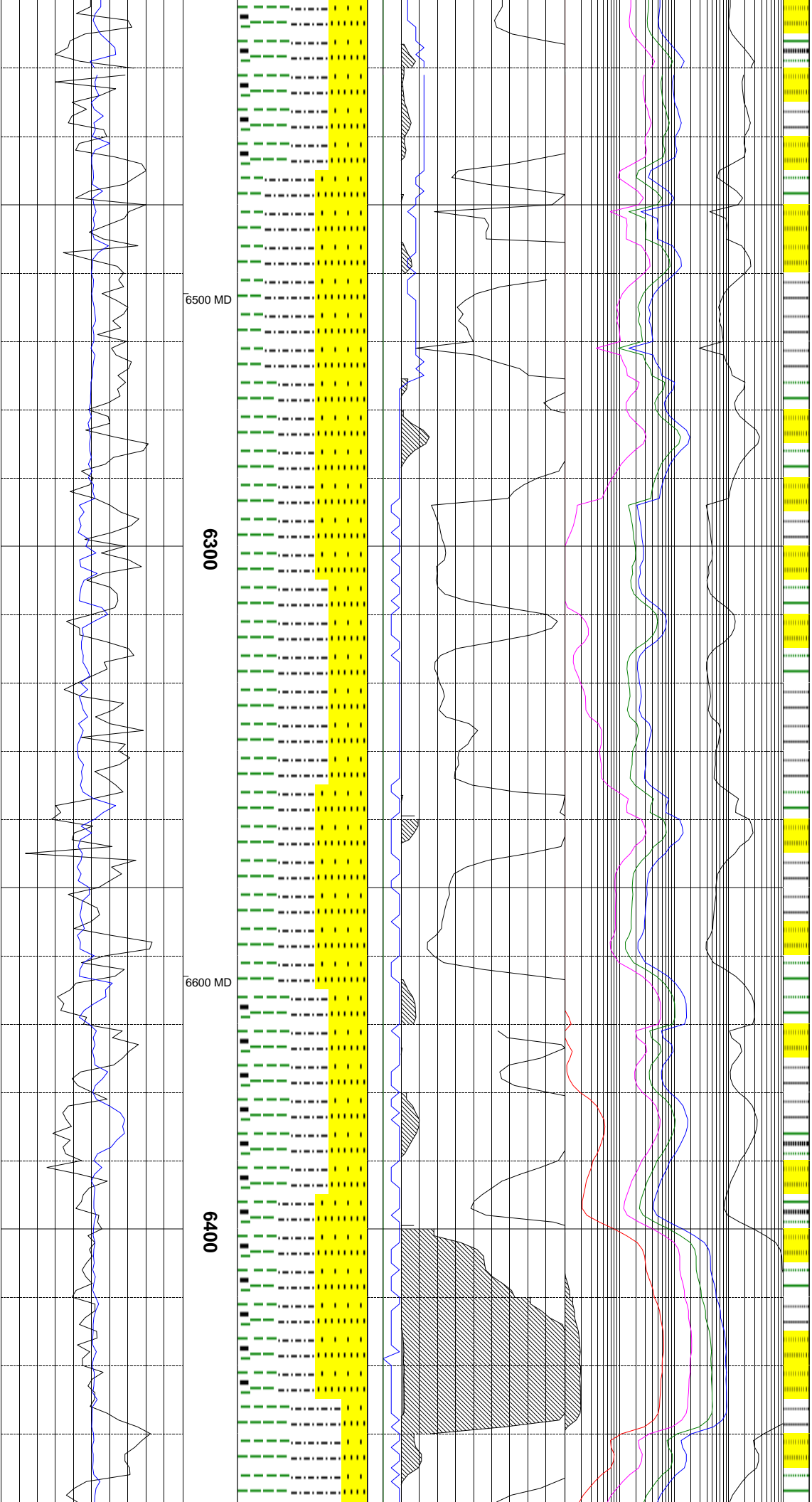


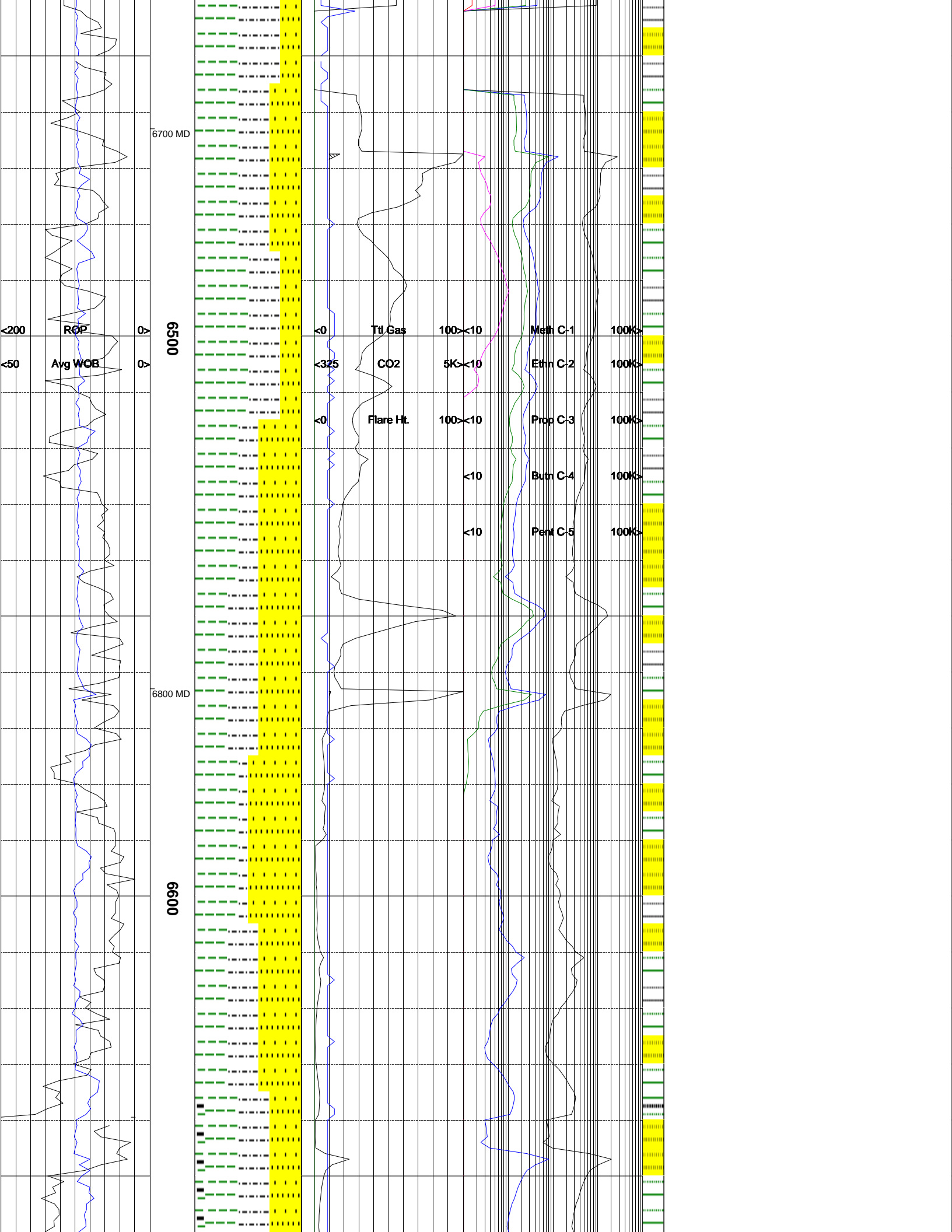


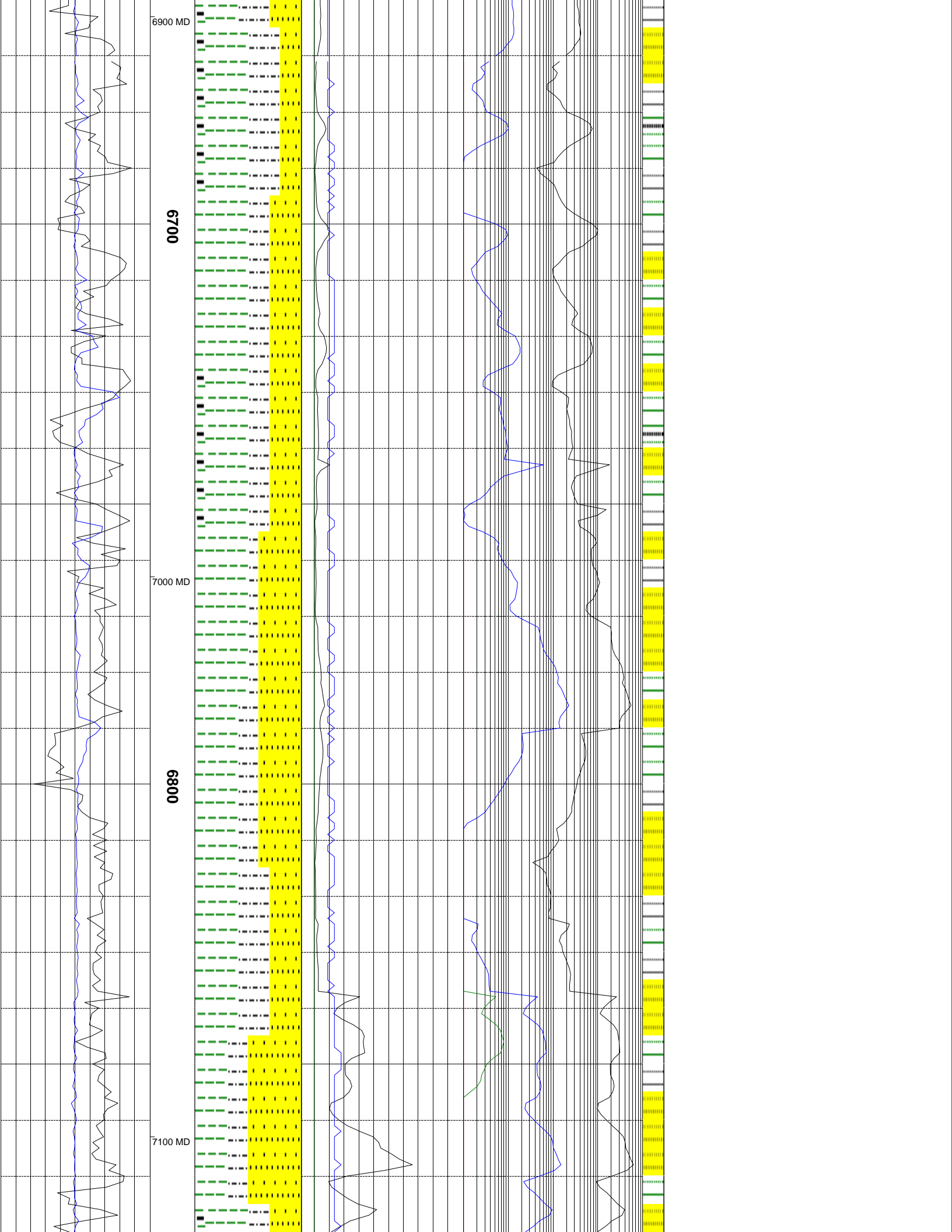


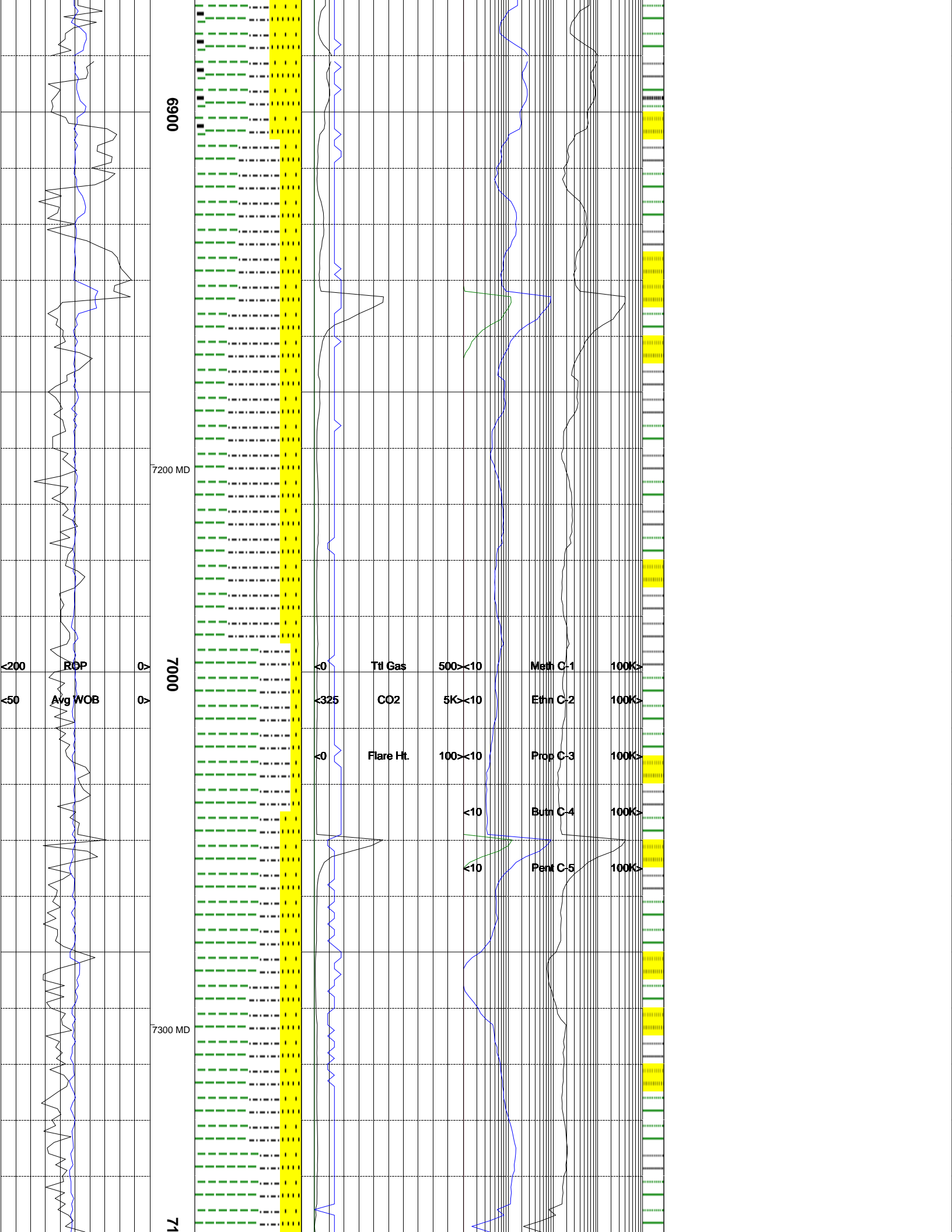


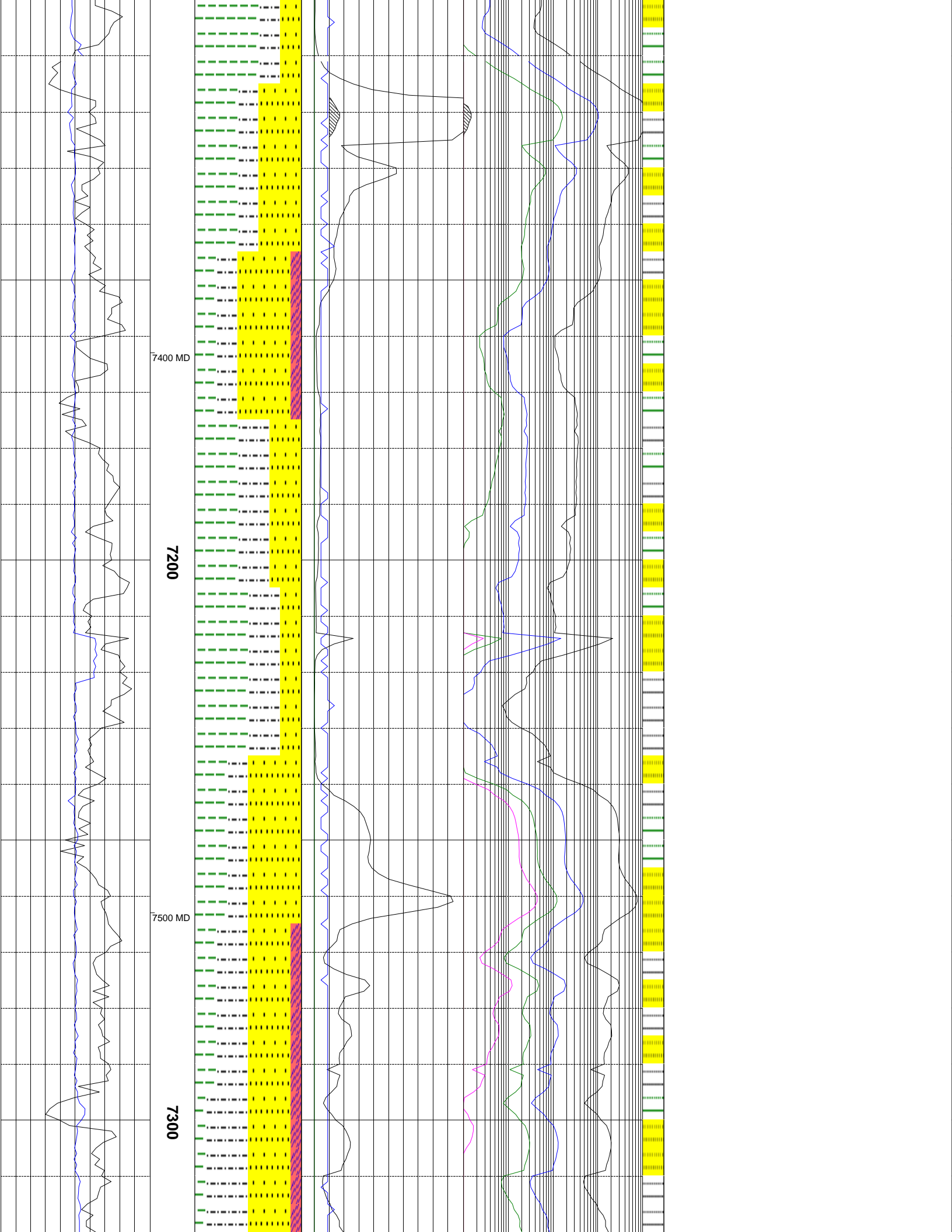


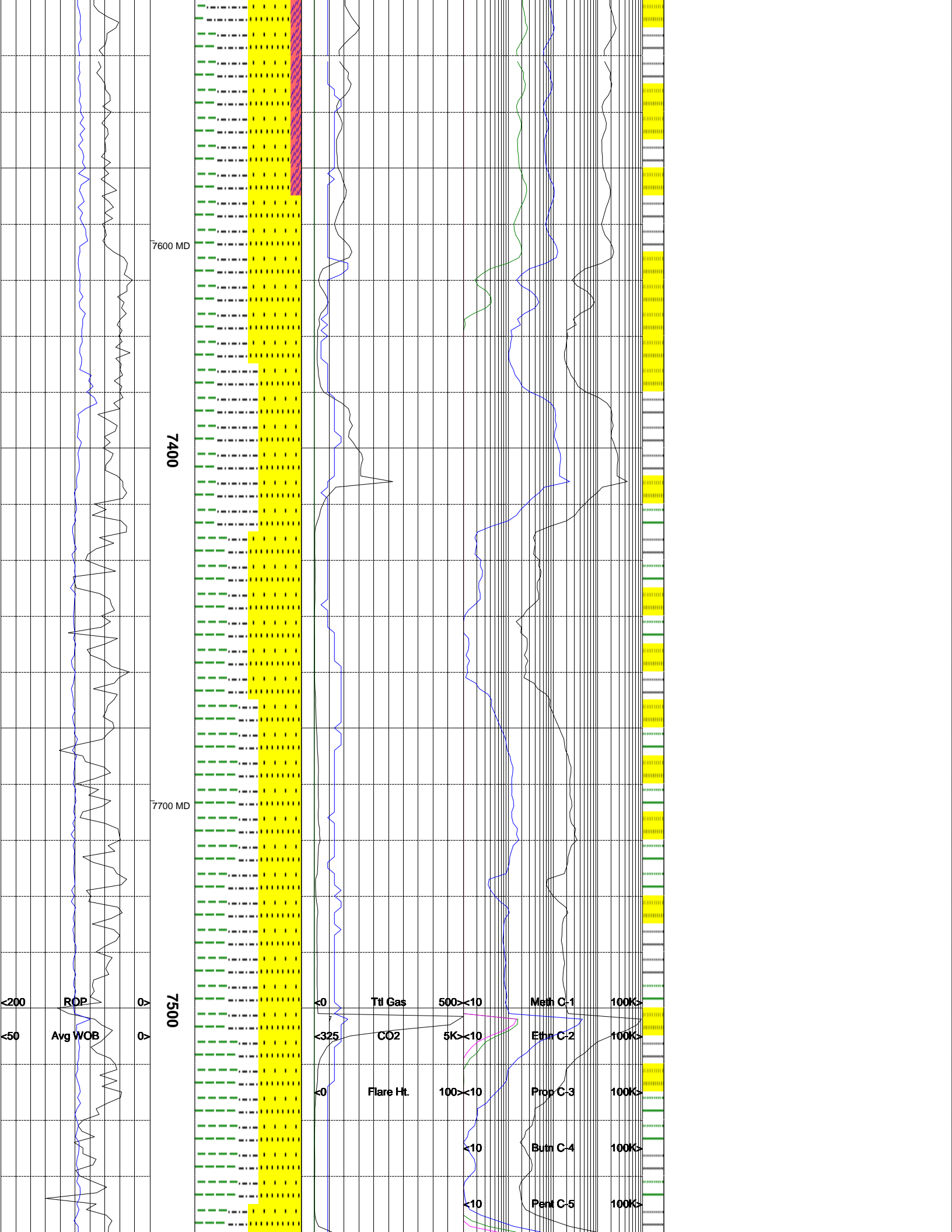


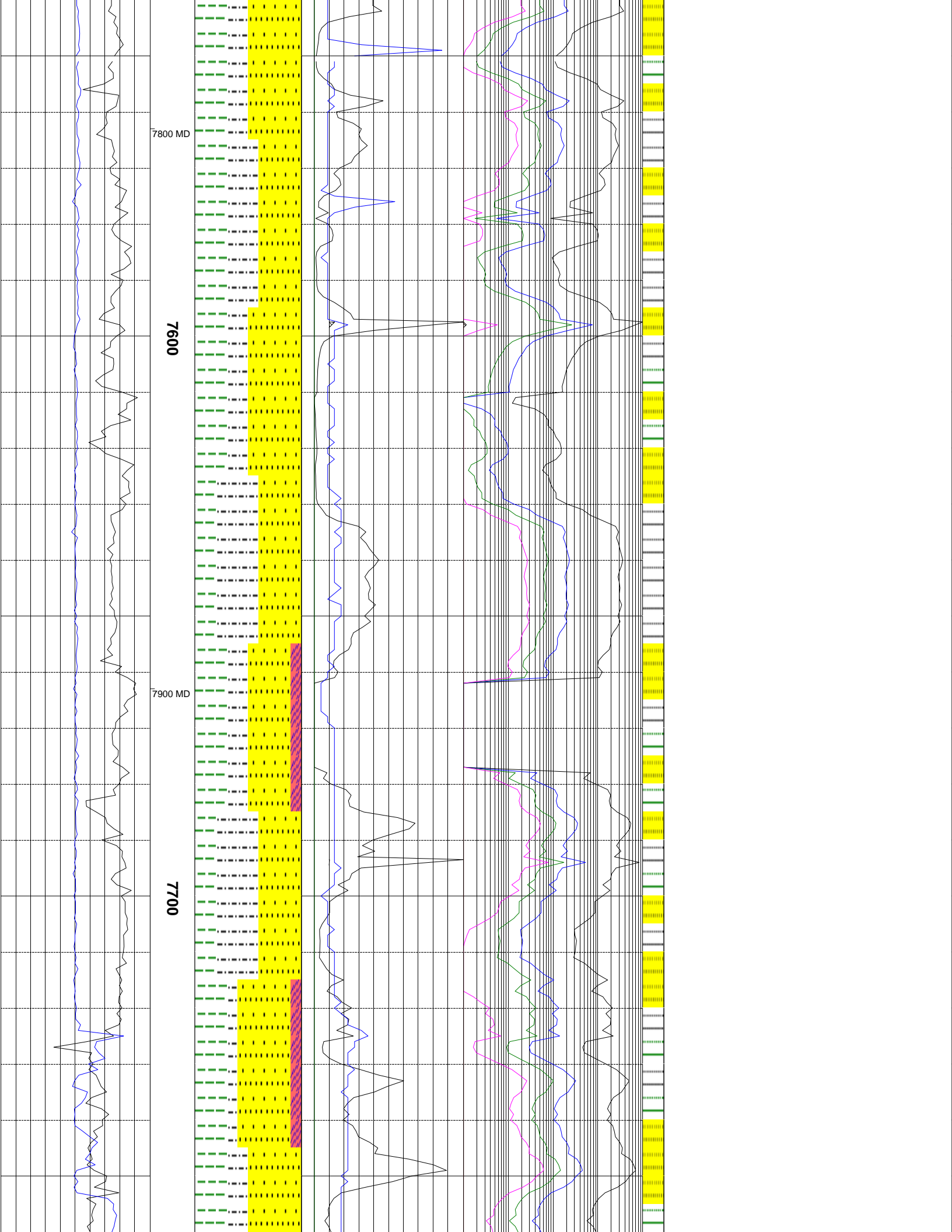




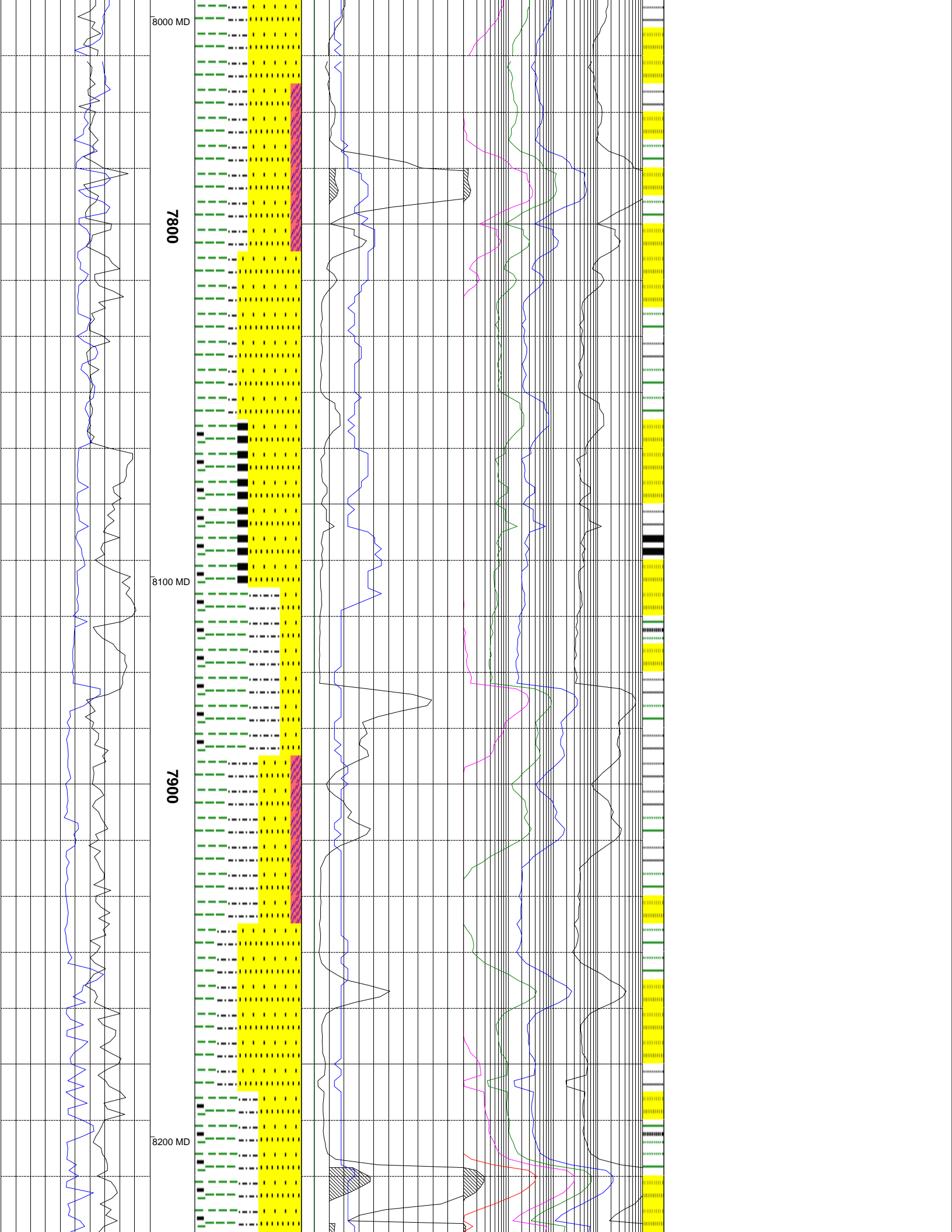


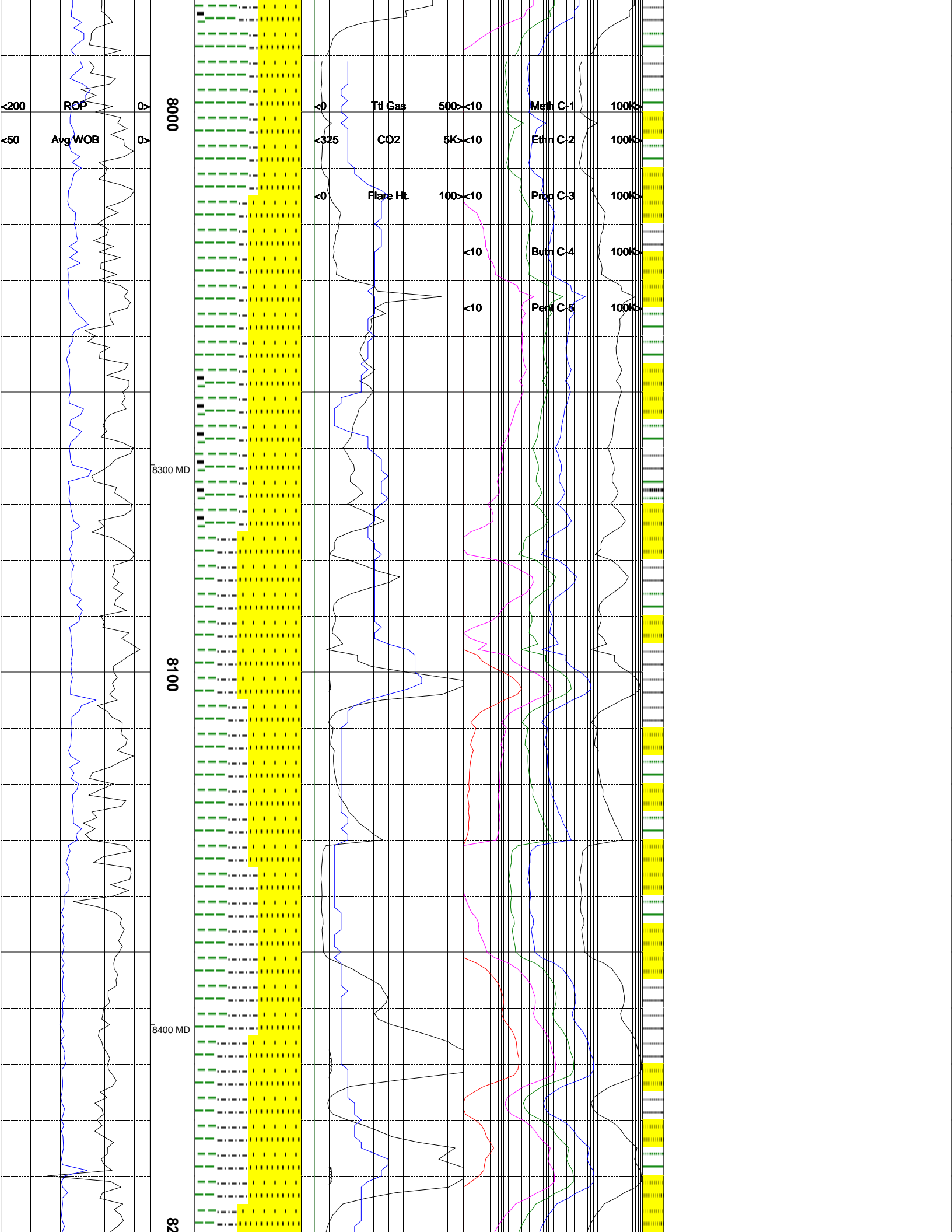


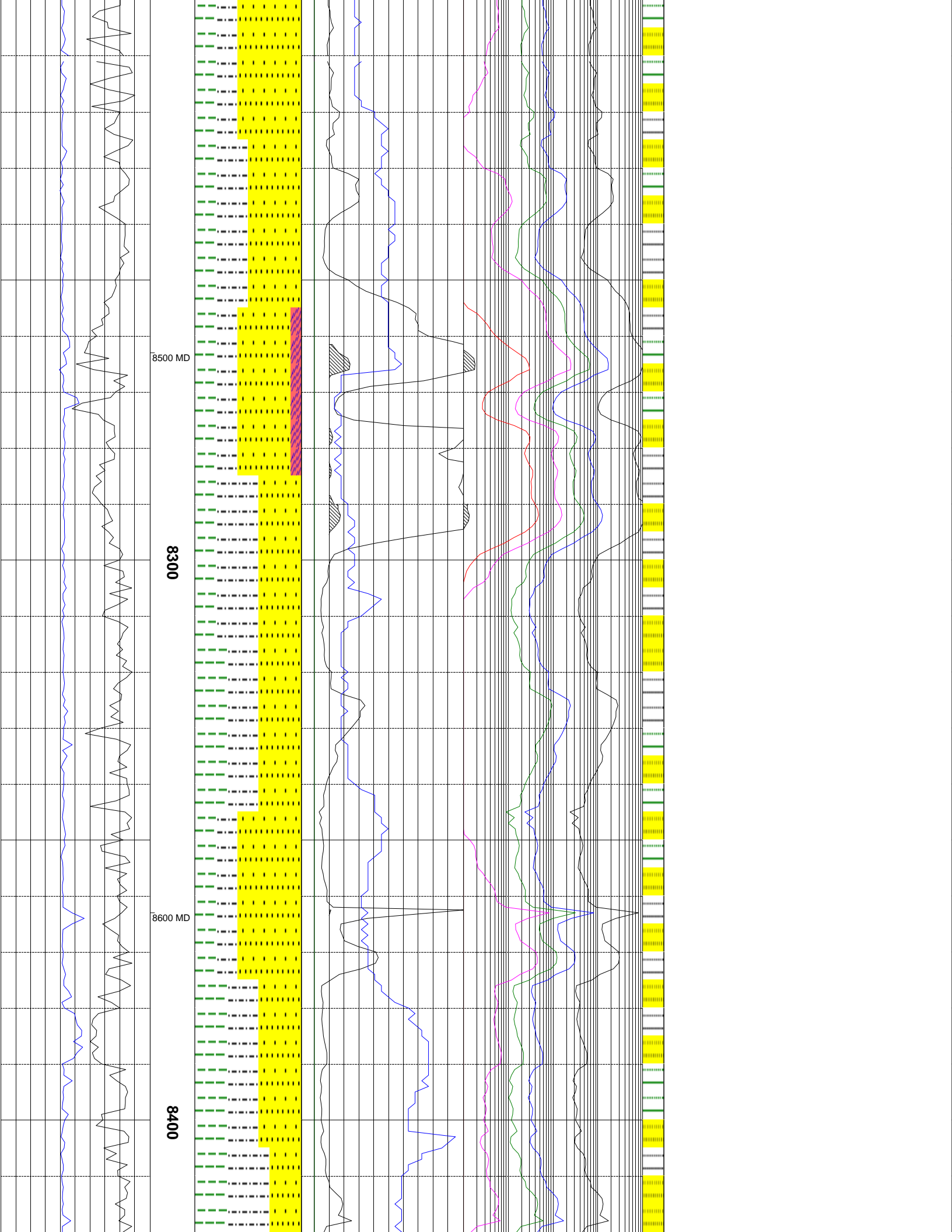


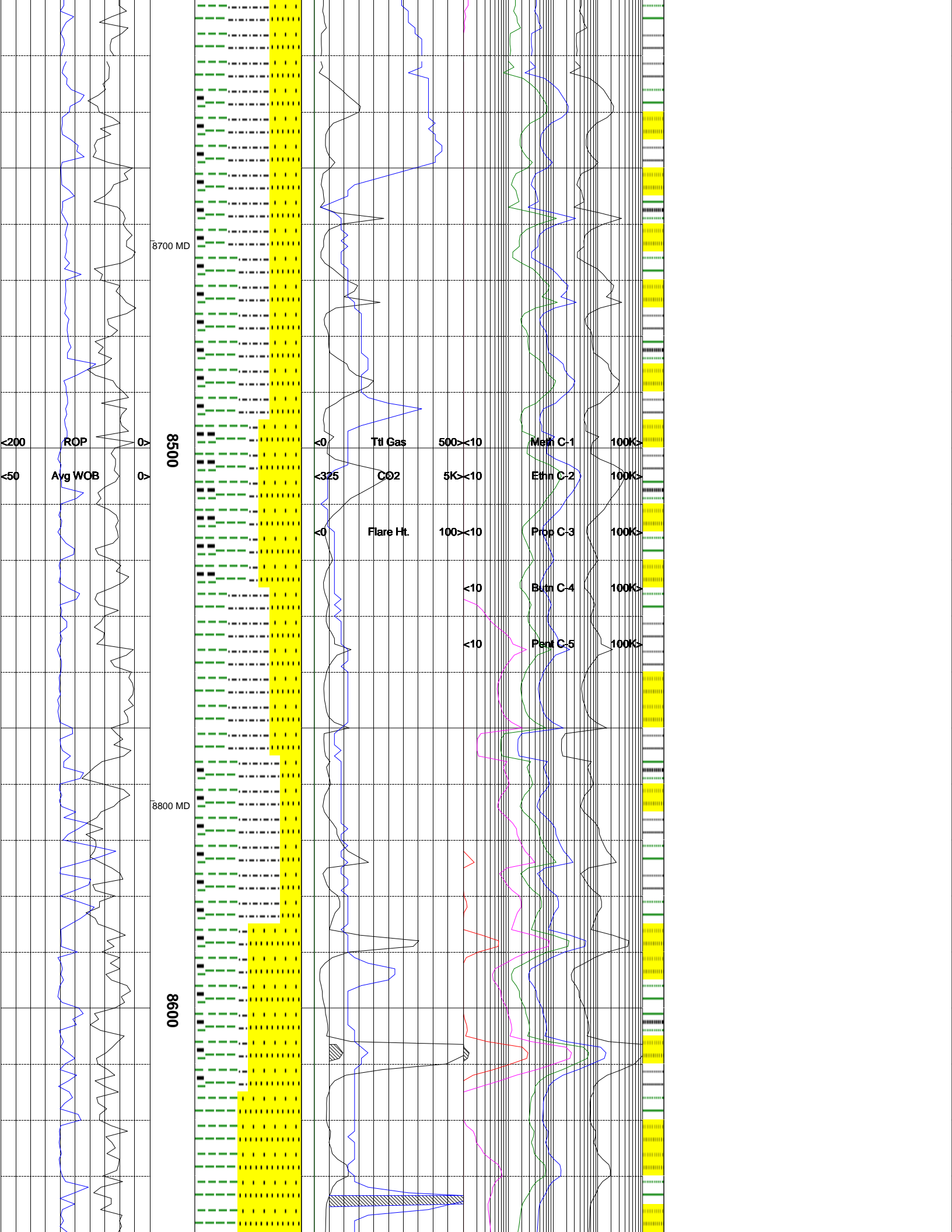


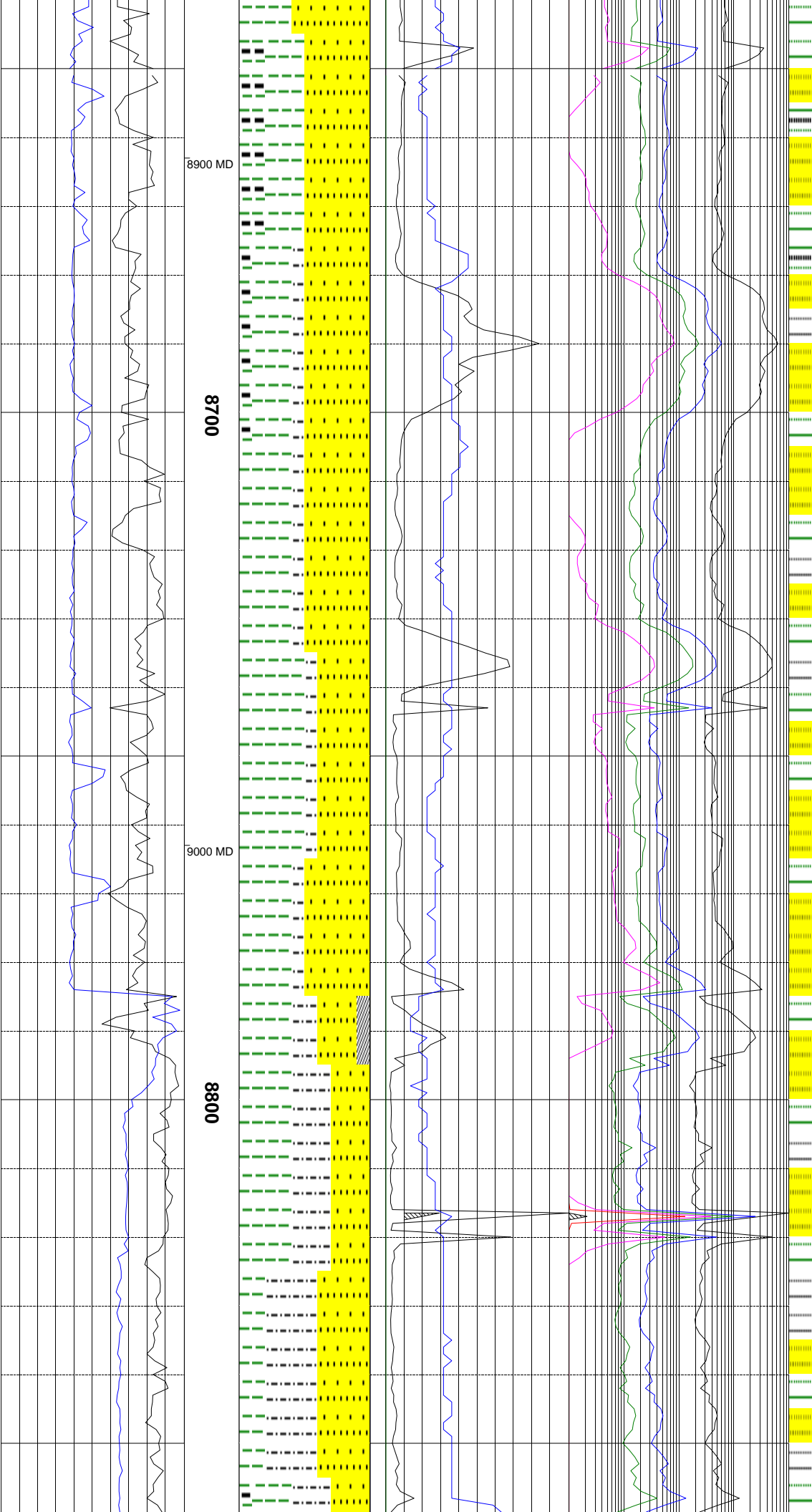


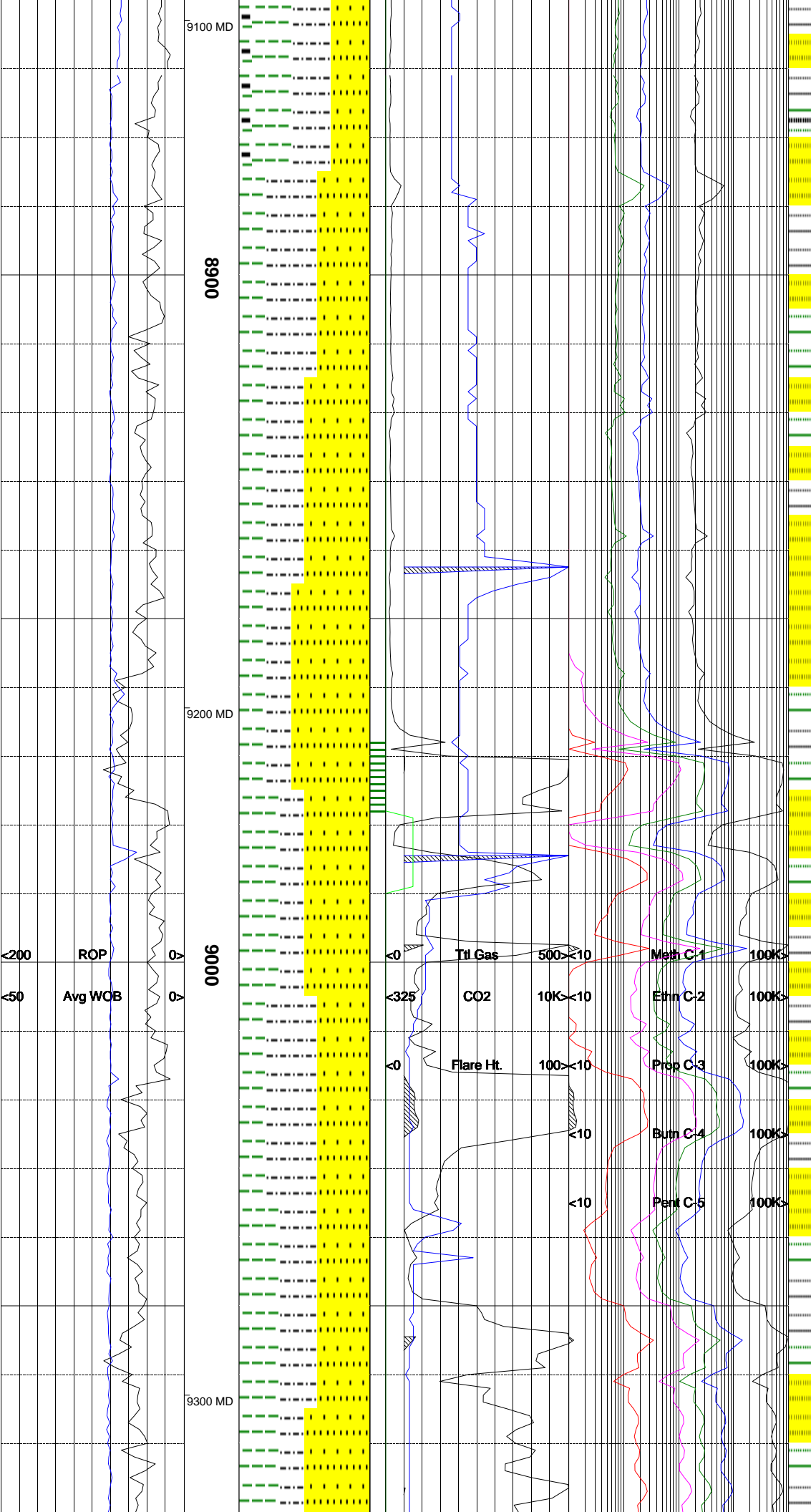


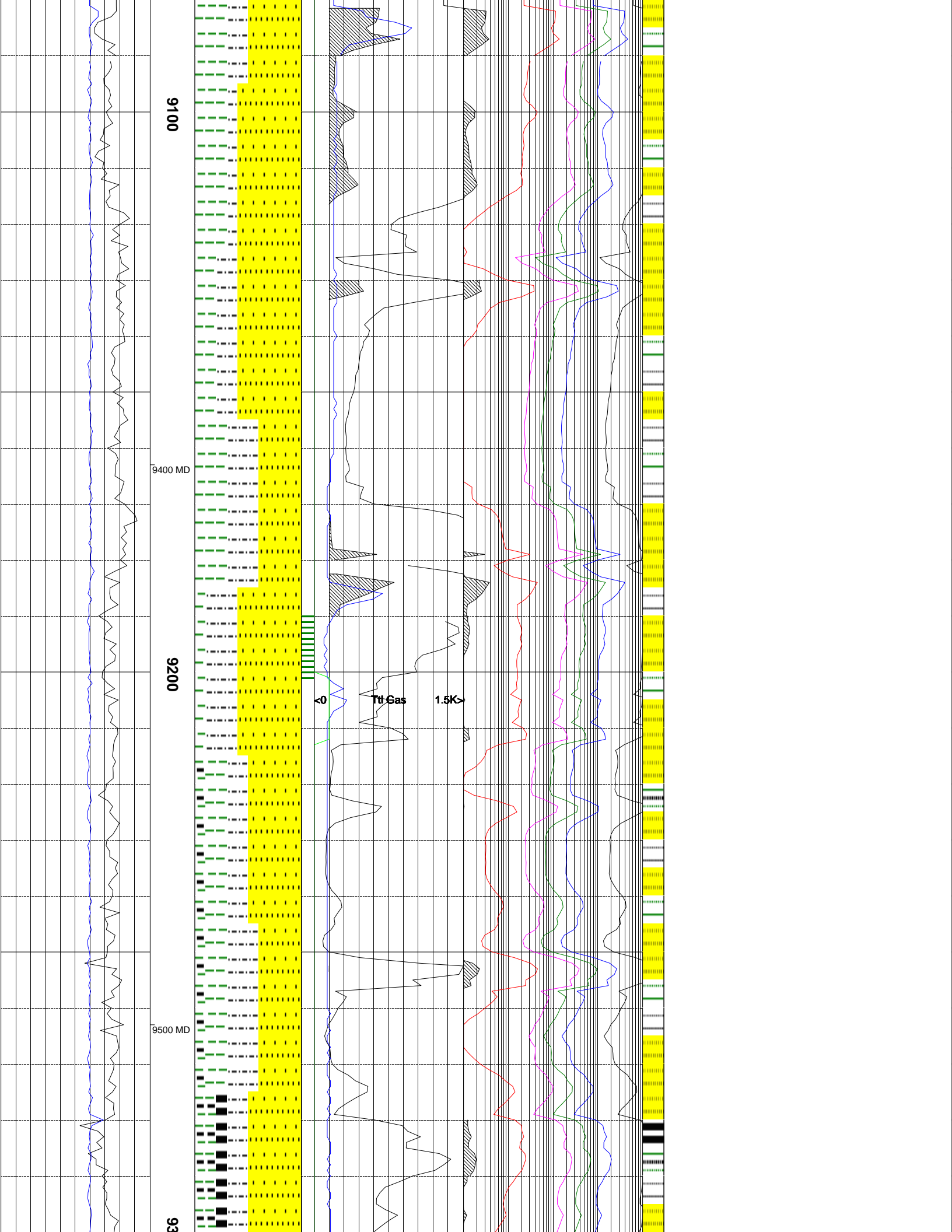


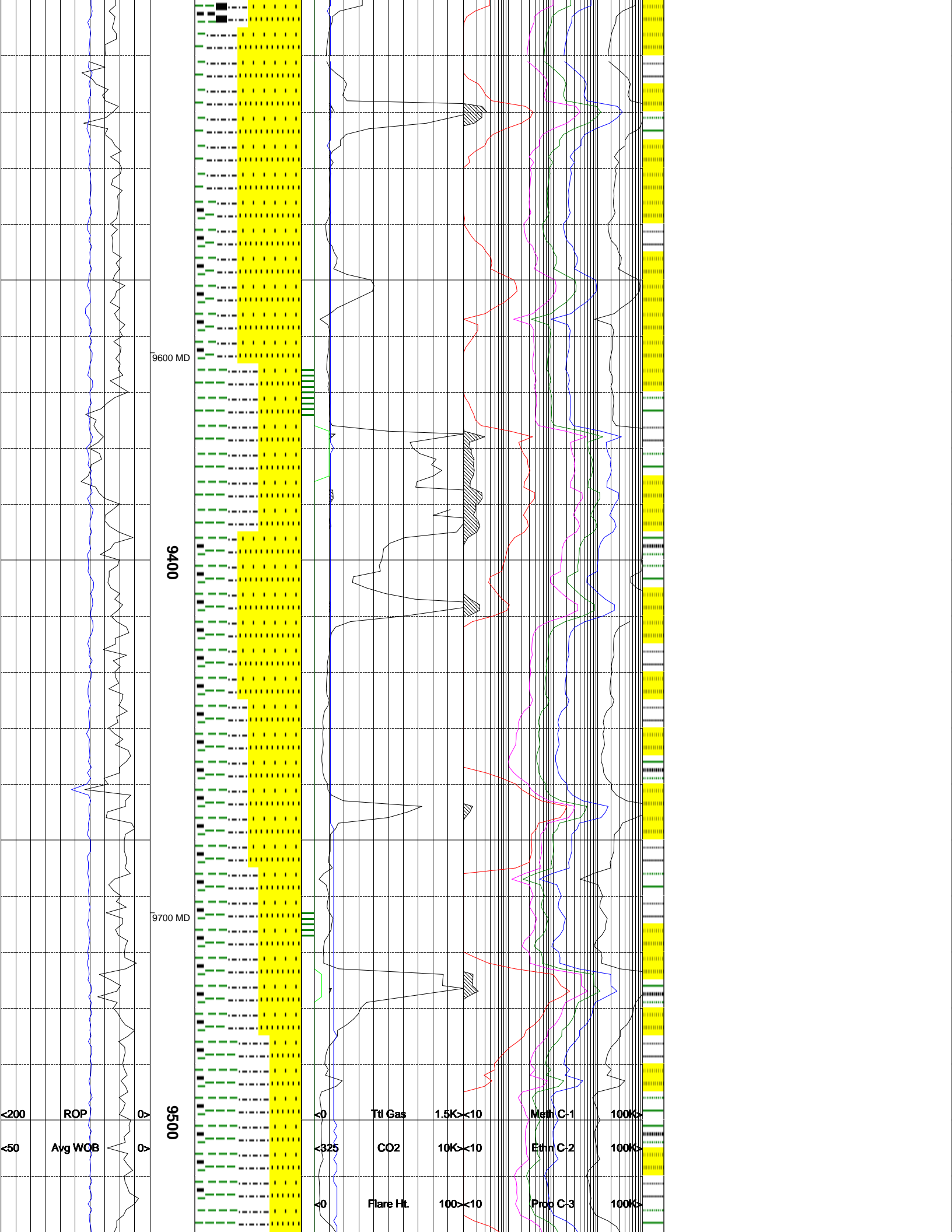




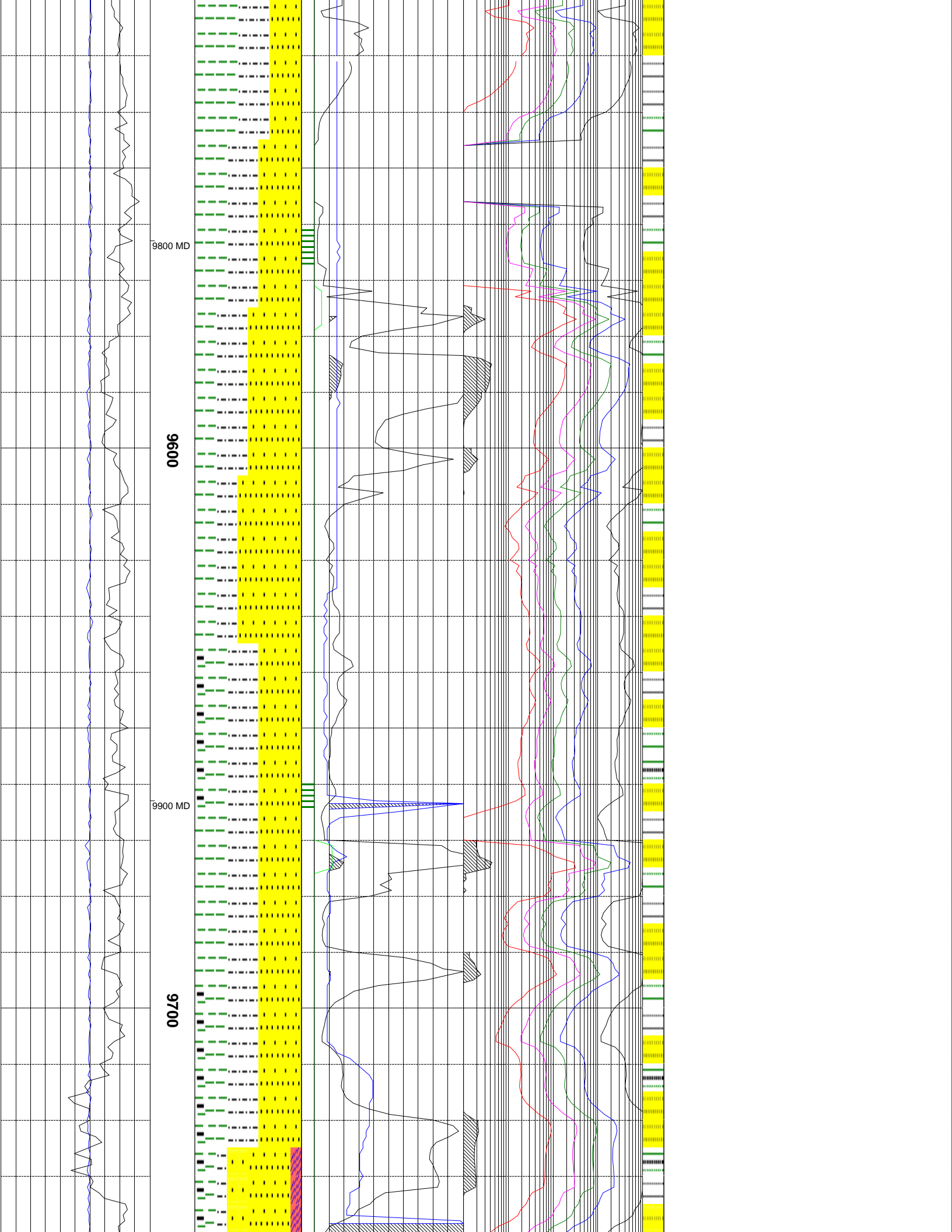


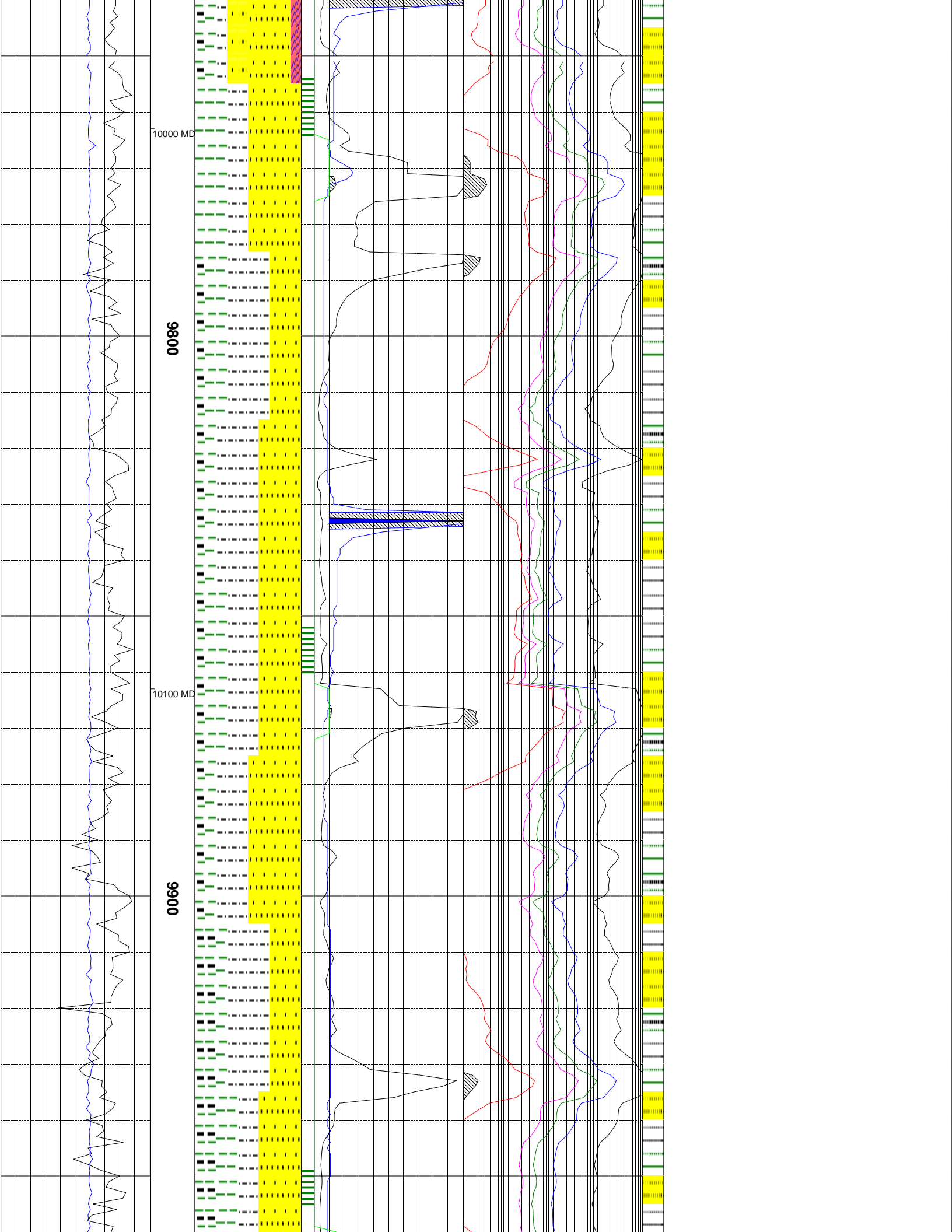


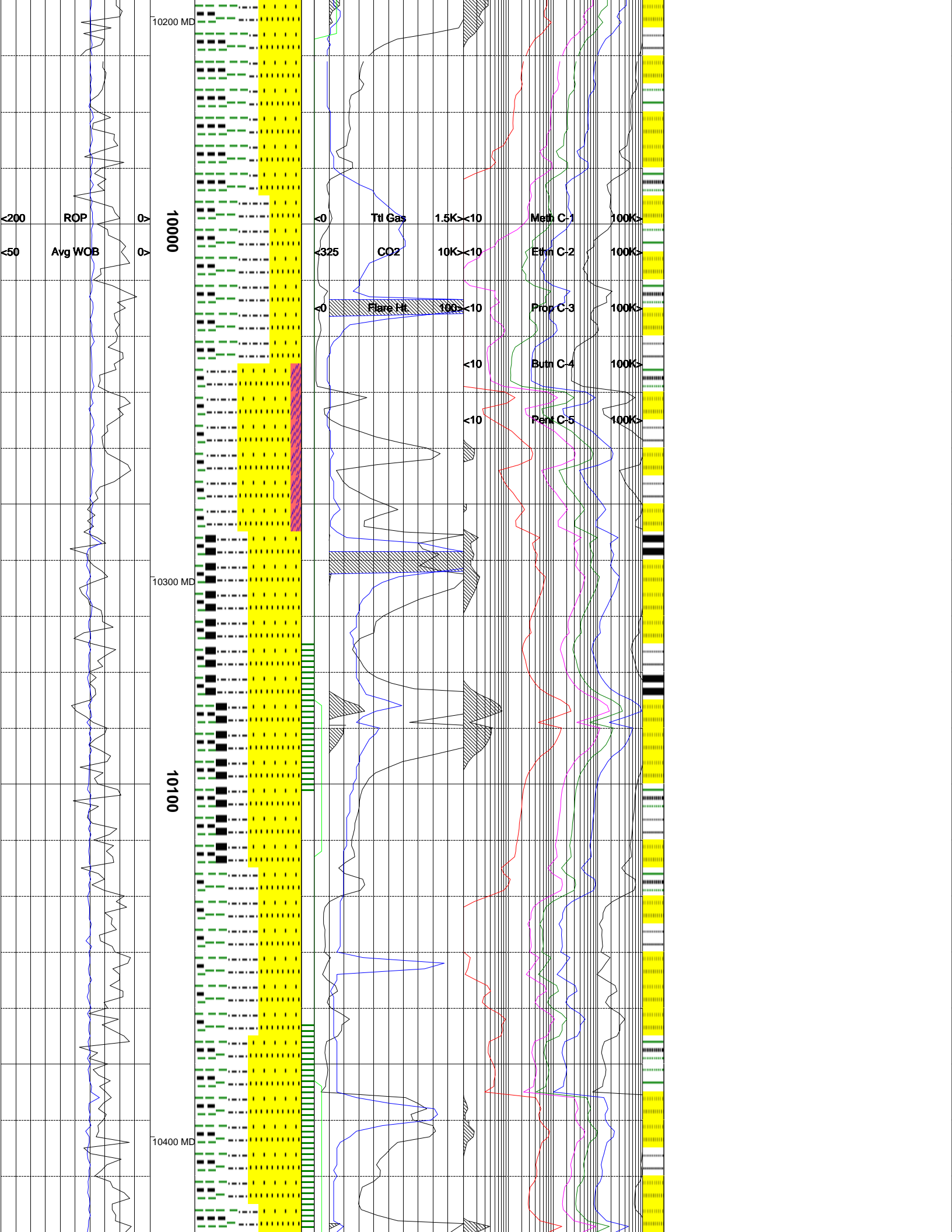


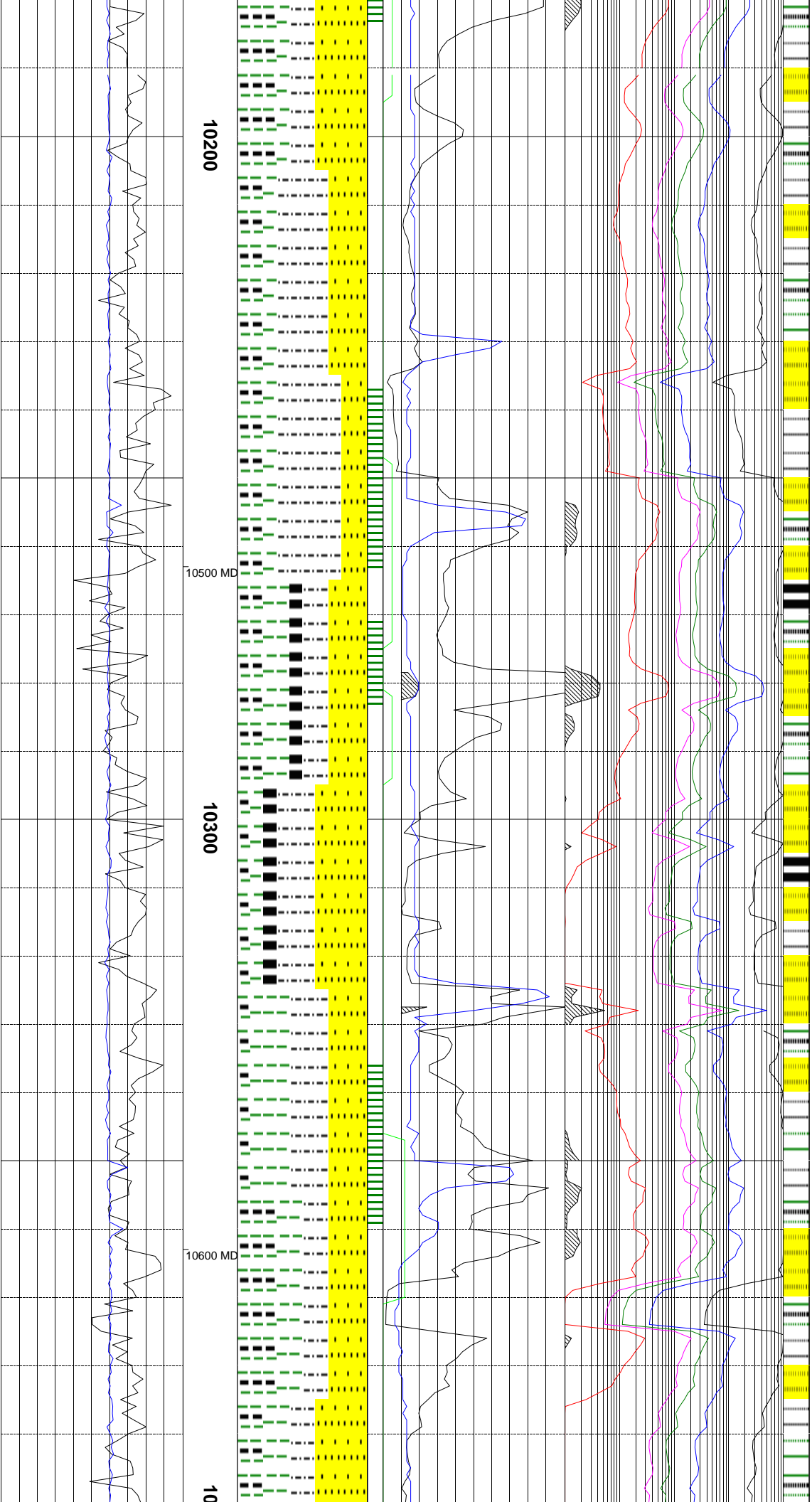


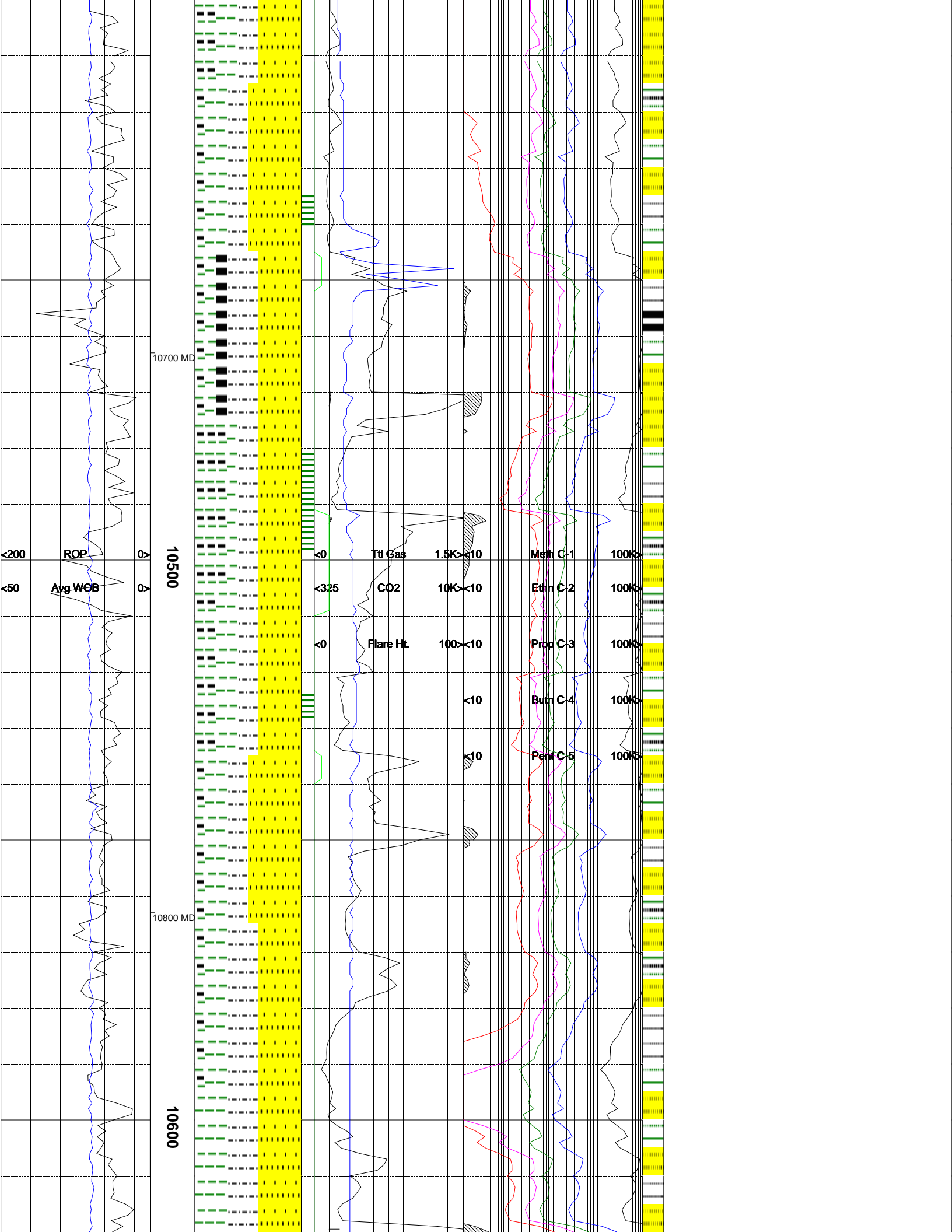


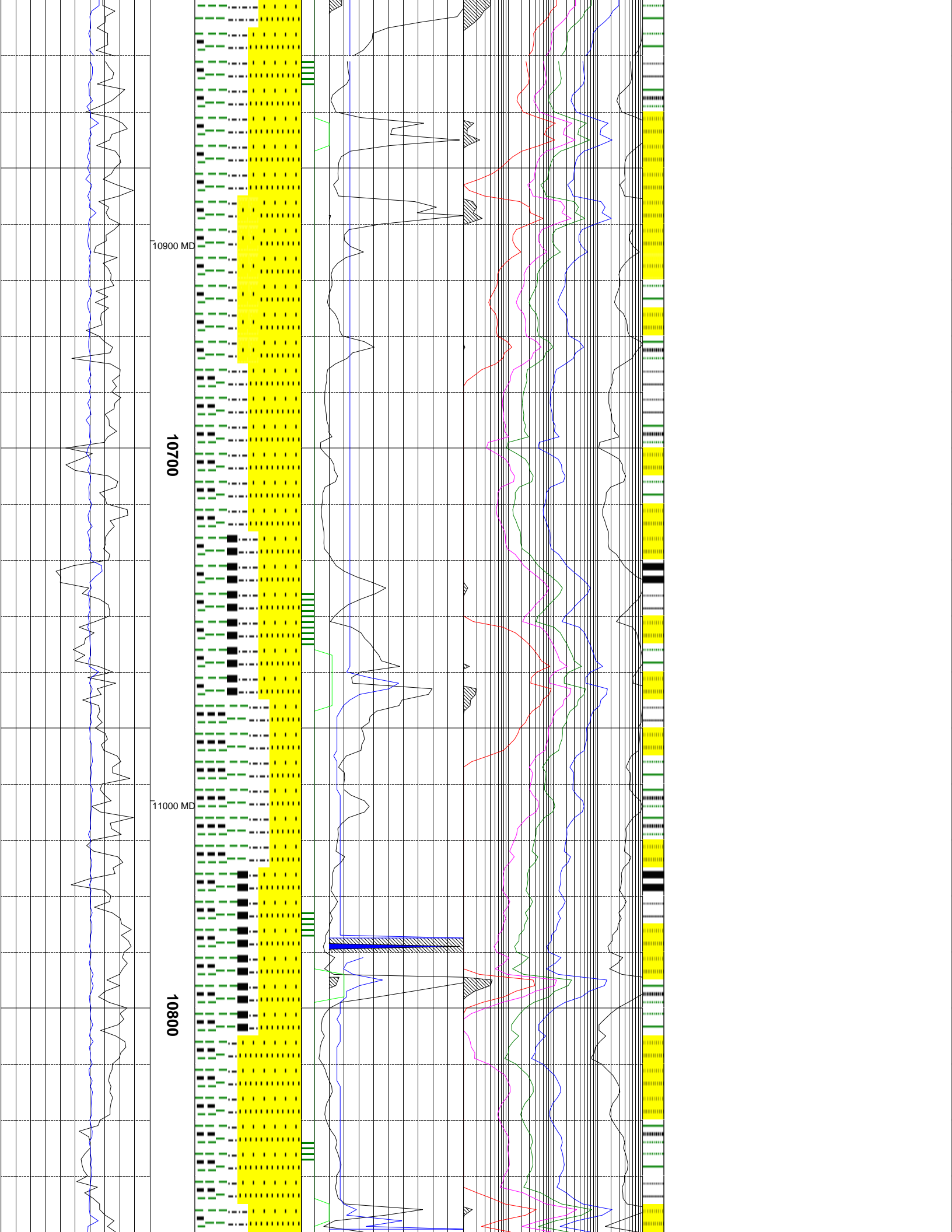


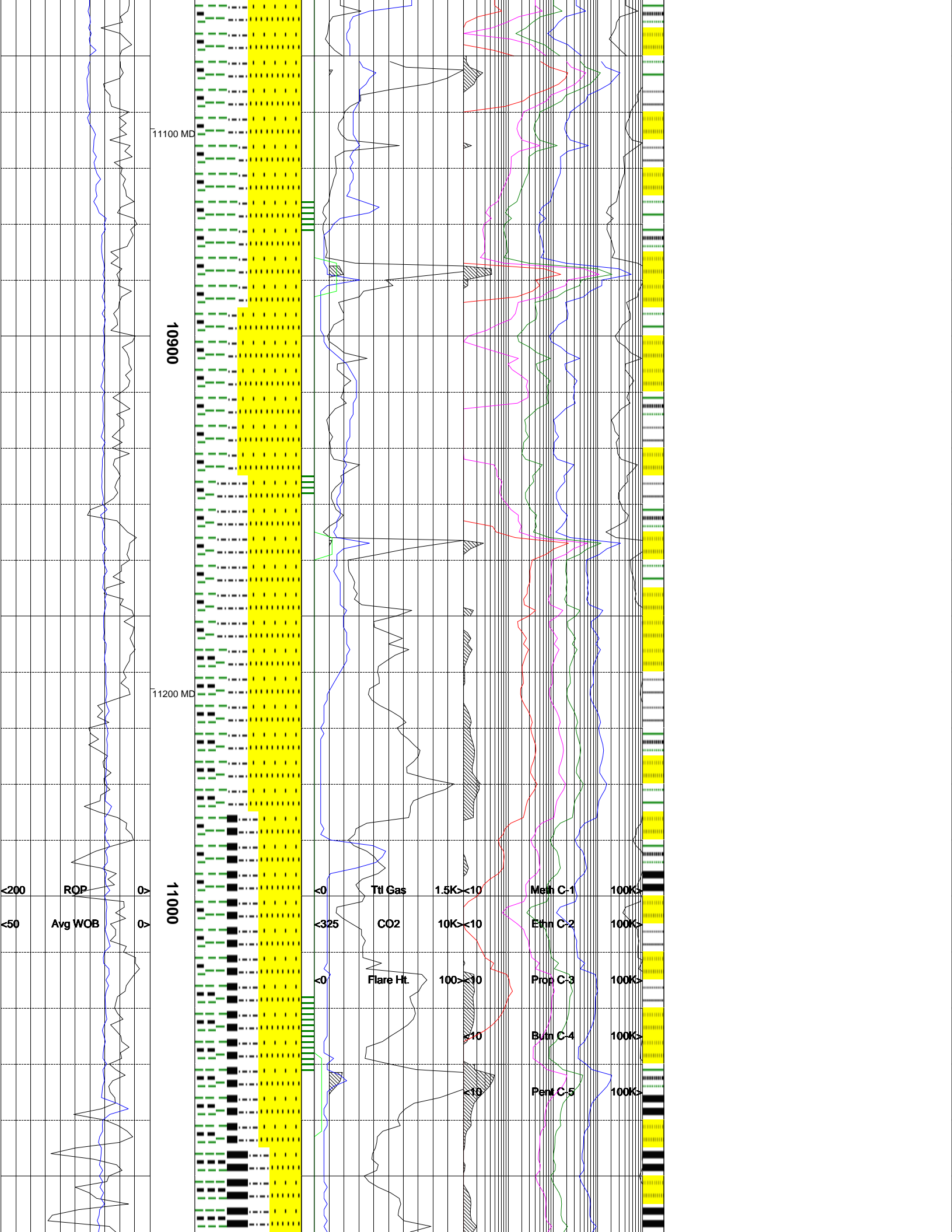


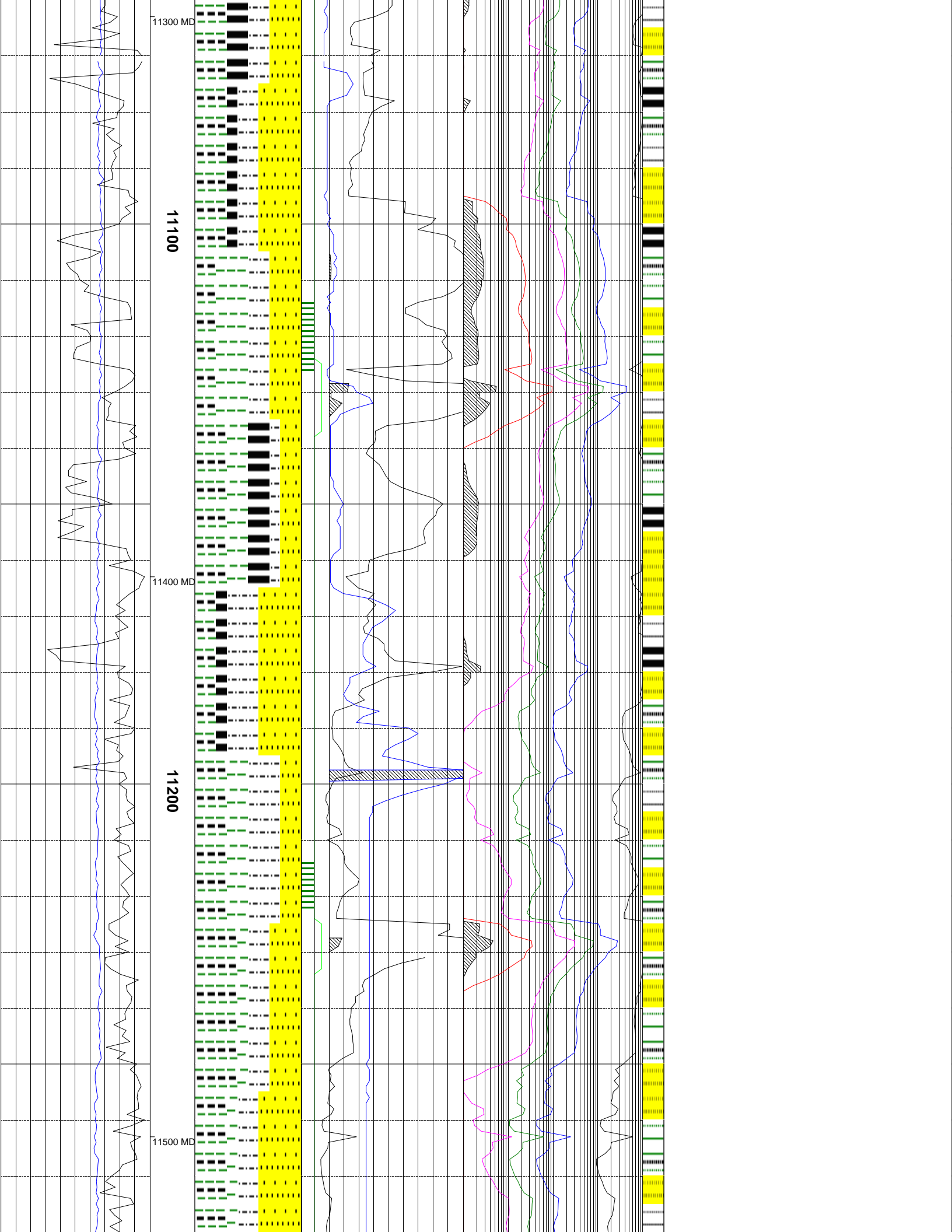




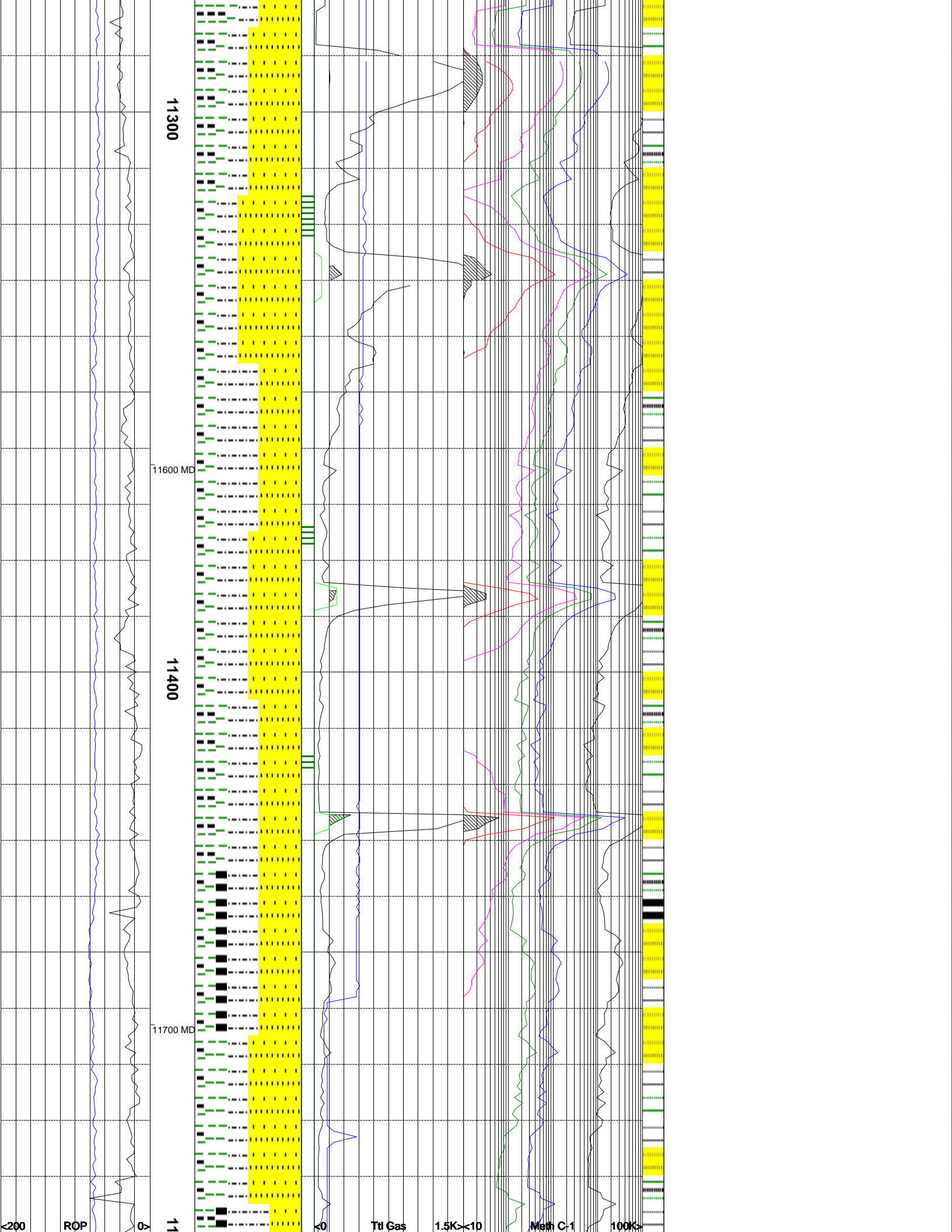


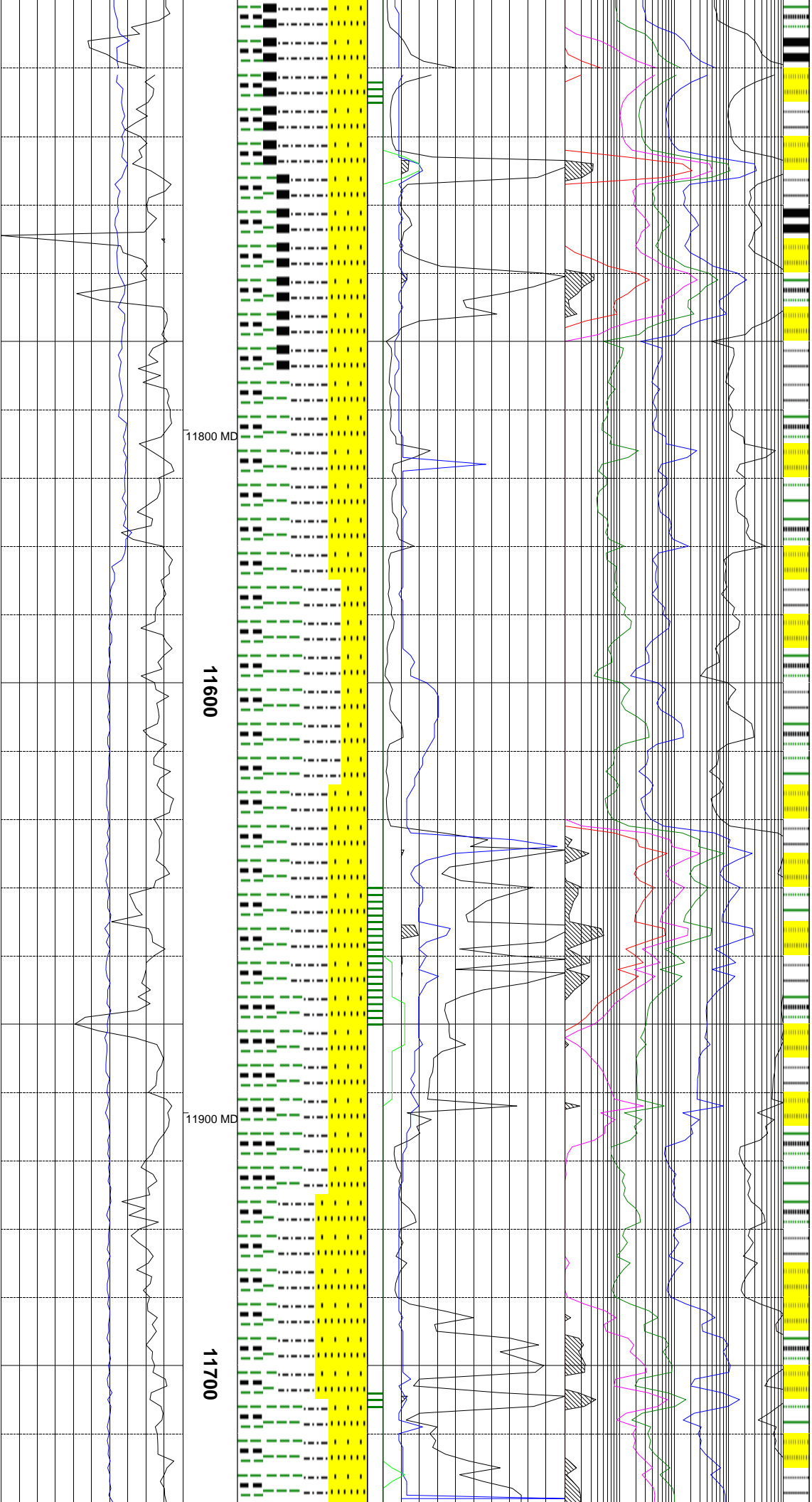


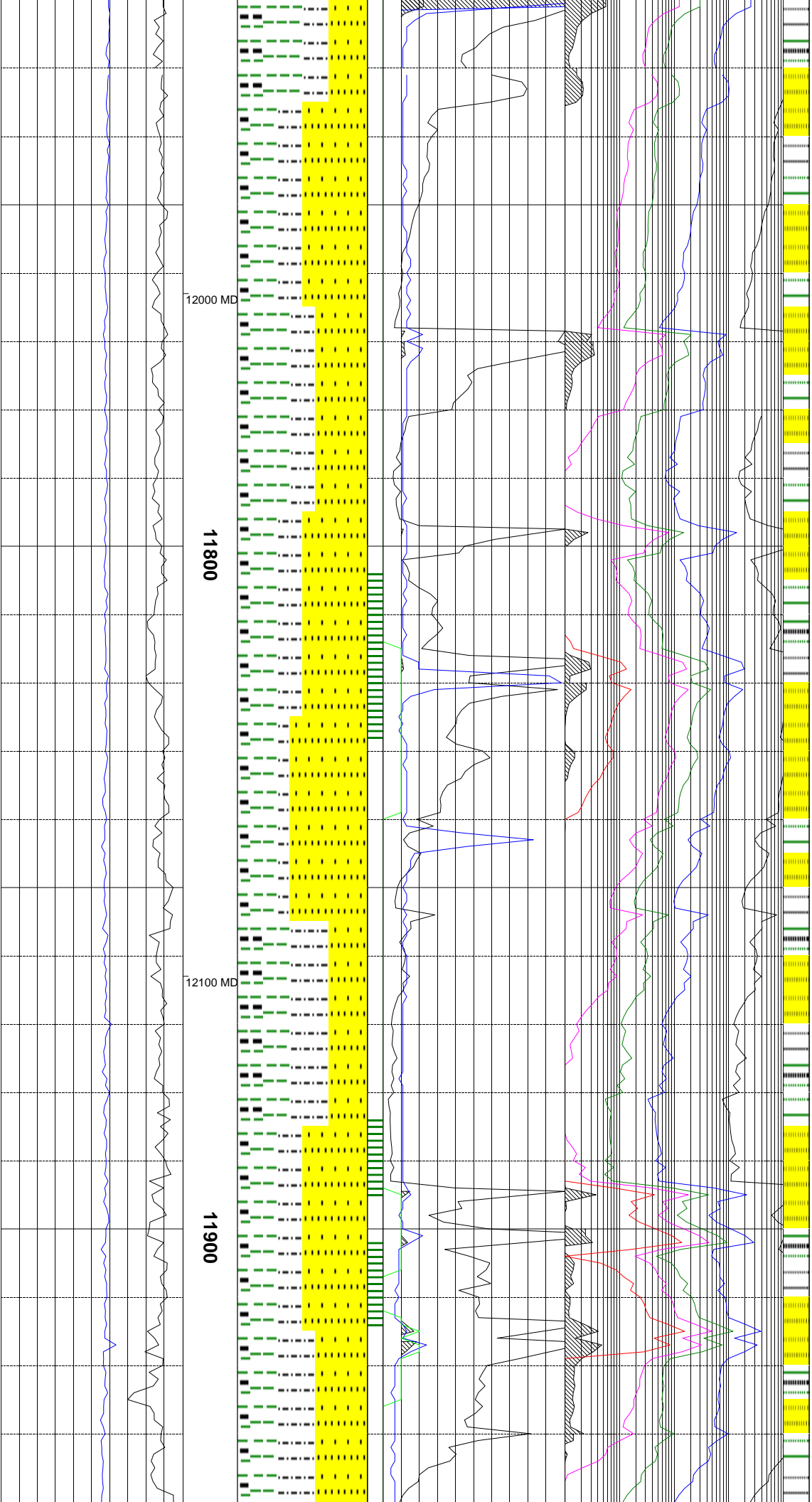


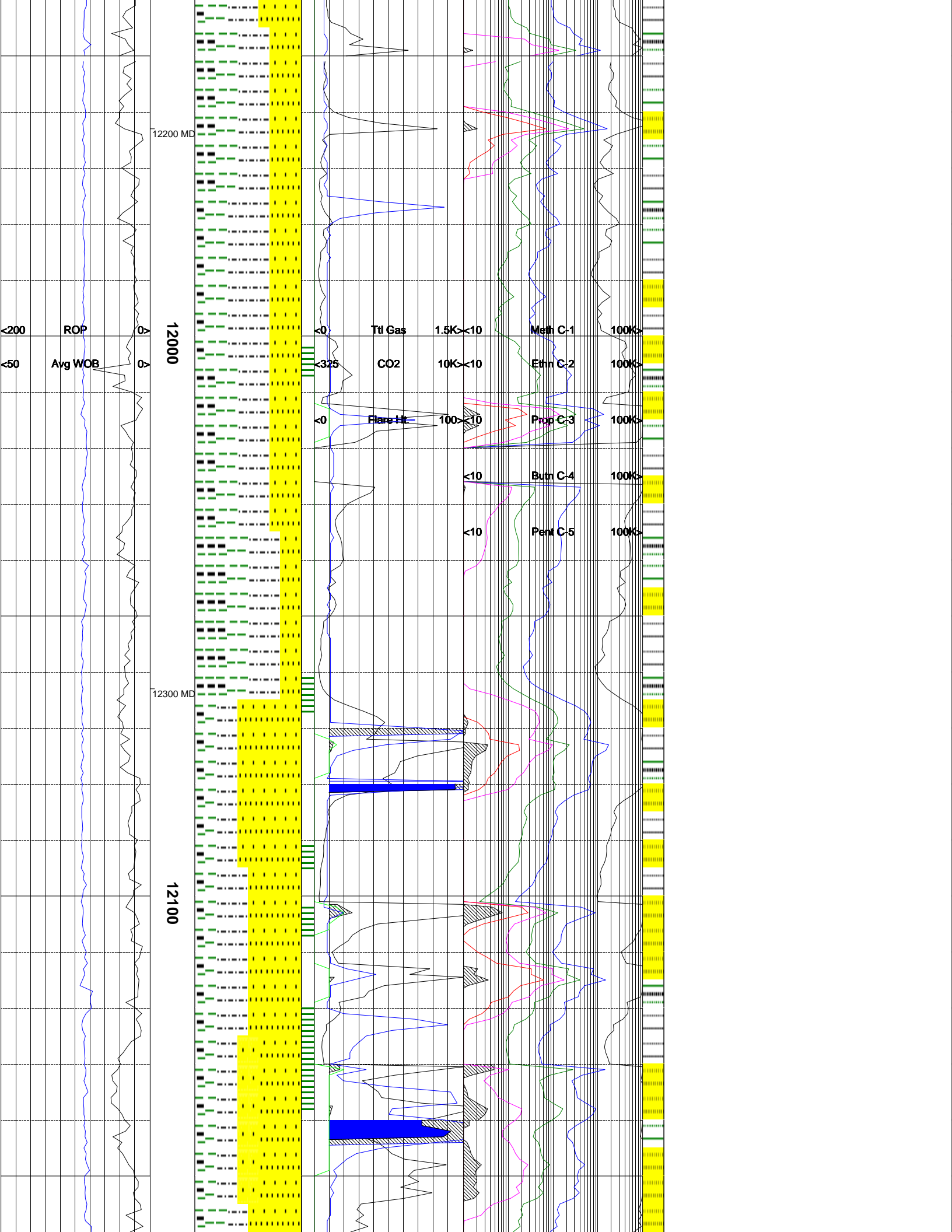


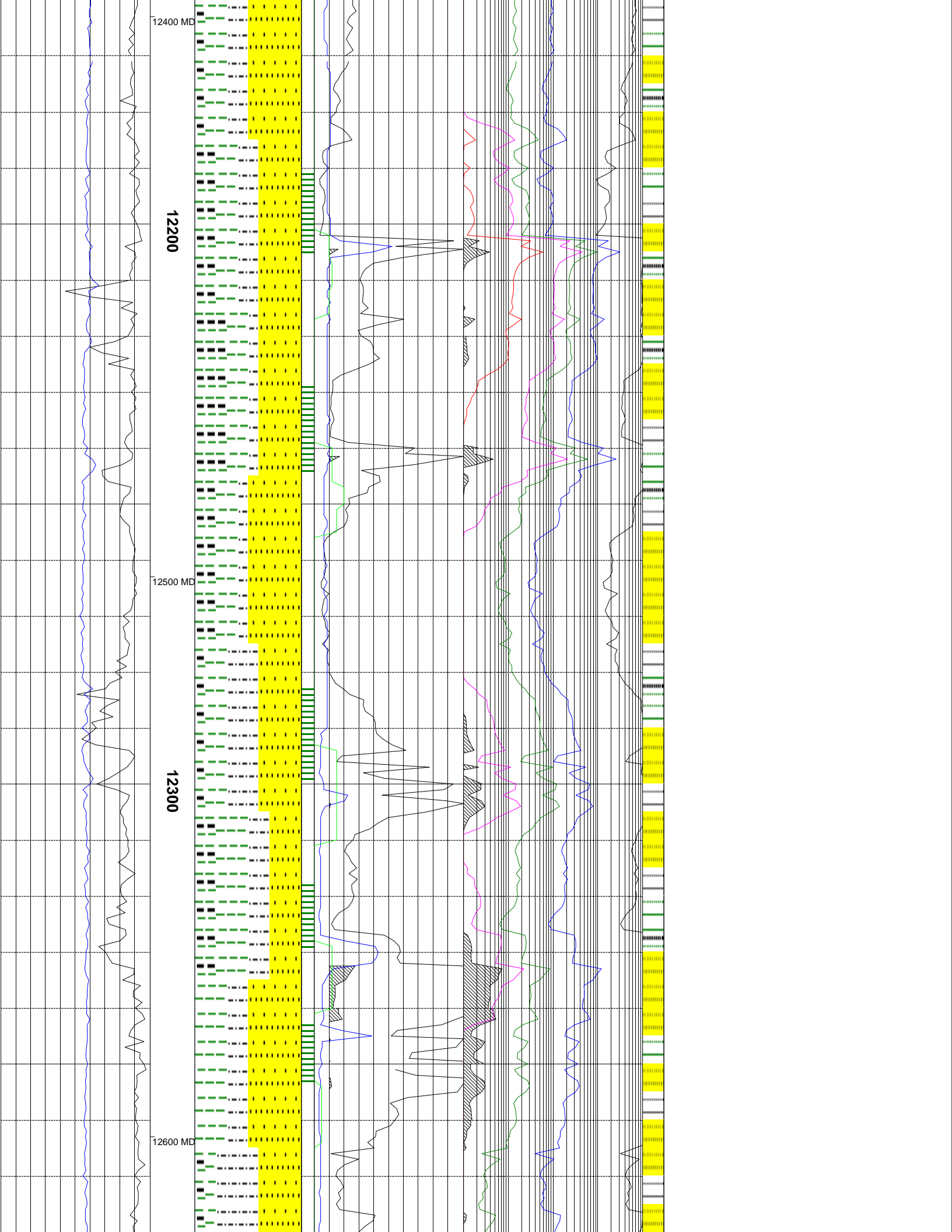


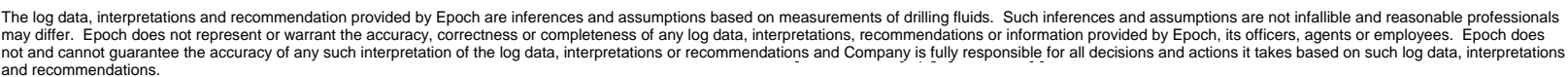












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