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MUDLOG TVD

COMPANY	ExxonMobil Production
WELL	PCU-297-11B8
FIELD	PICEANCE CREEK
REGION	ROCKY MT
COORDINATES	LAT 39.885354000 LON 108.239363000
ELEVATION	GL = 7127' KB = 7154'
COUNTY, STATE	RIO BLANCO CO. CO
API INDEX	051031137100
SPUD DATE	4/21/2009
CONTRACTOR	HELMERICH_PAYNE
CO. REP.	RICKY T. OWENS
RIG/TYPE	FLEX 3
LOGGING UNIT	MLU051
GEOLOGISTS	GEORGE BAKER BRENDA MARSH
ADD. PERSONS	DEVIN CLAAR BILL JOHANNING
CO. GEOLOGIST	MICHAEL HOWELL

LOG INTERVAL

DEPTHS:	3,717'	TO	12,715'
DATES:	11/23/2009	TO	12/04/2009
SCALE:	5" = 100'		

CASING DATA

16.00"	AT	130'
10.75"	AT	3,717'
7.00"	AT	8,622'

AT

HOLE SIZE

9.875"	TO	8,641'
6.125"	TO	12,715'
	TO	
	TO	

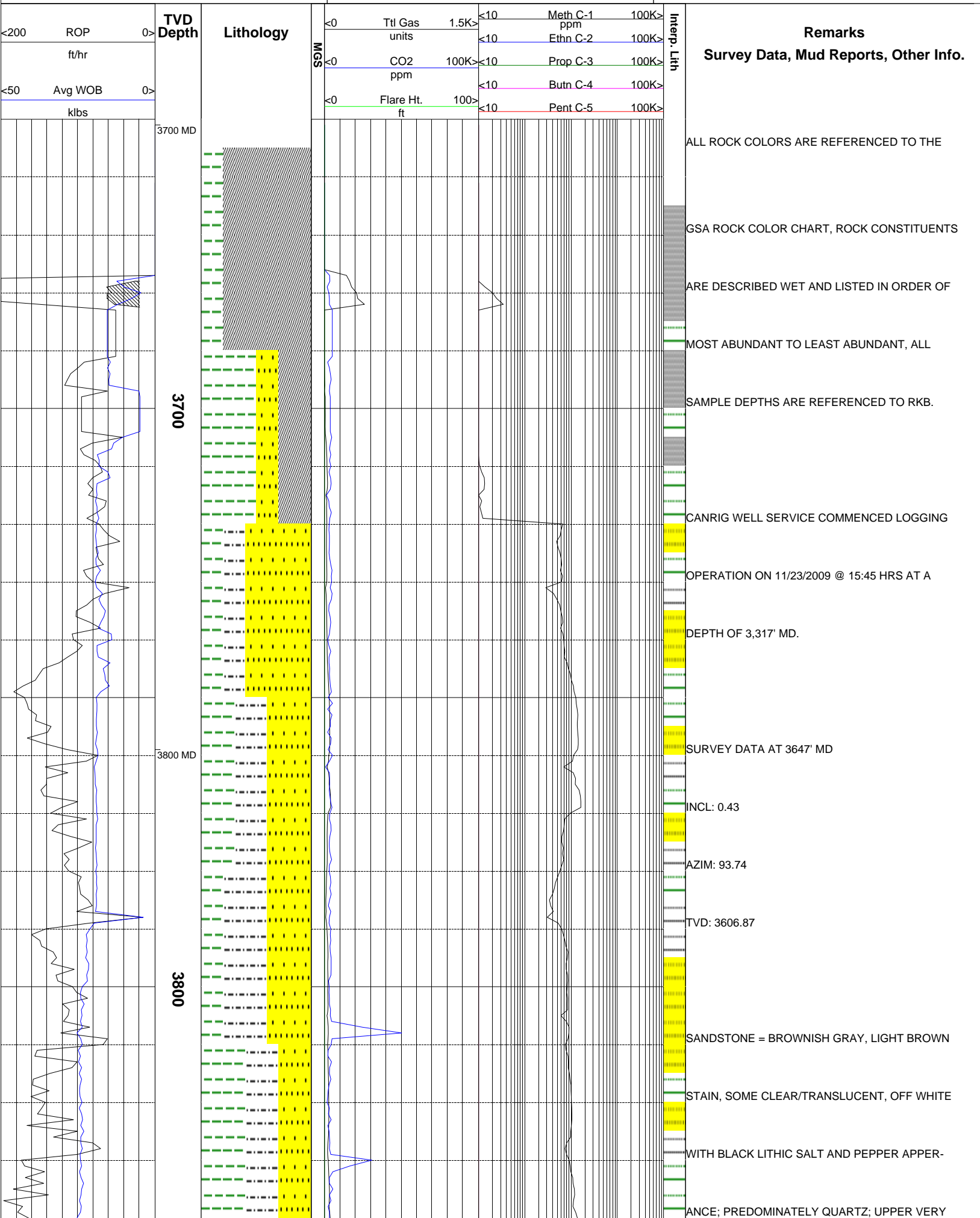
MUD TYPES

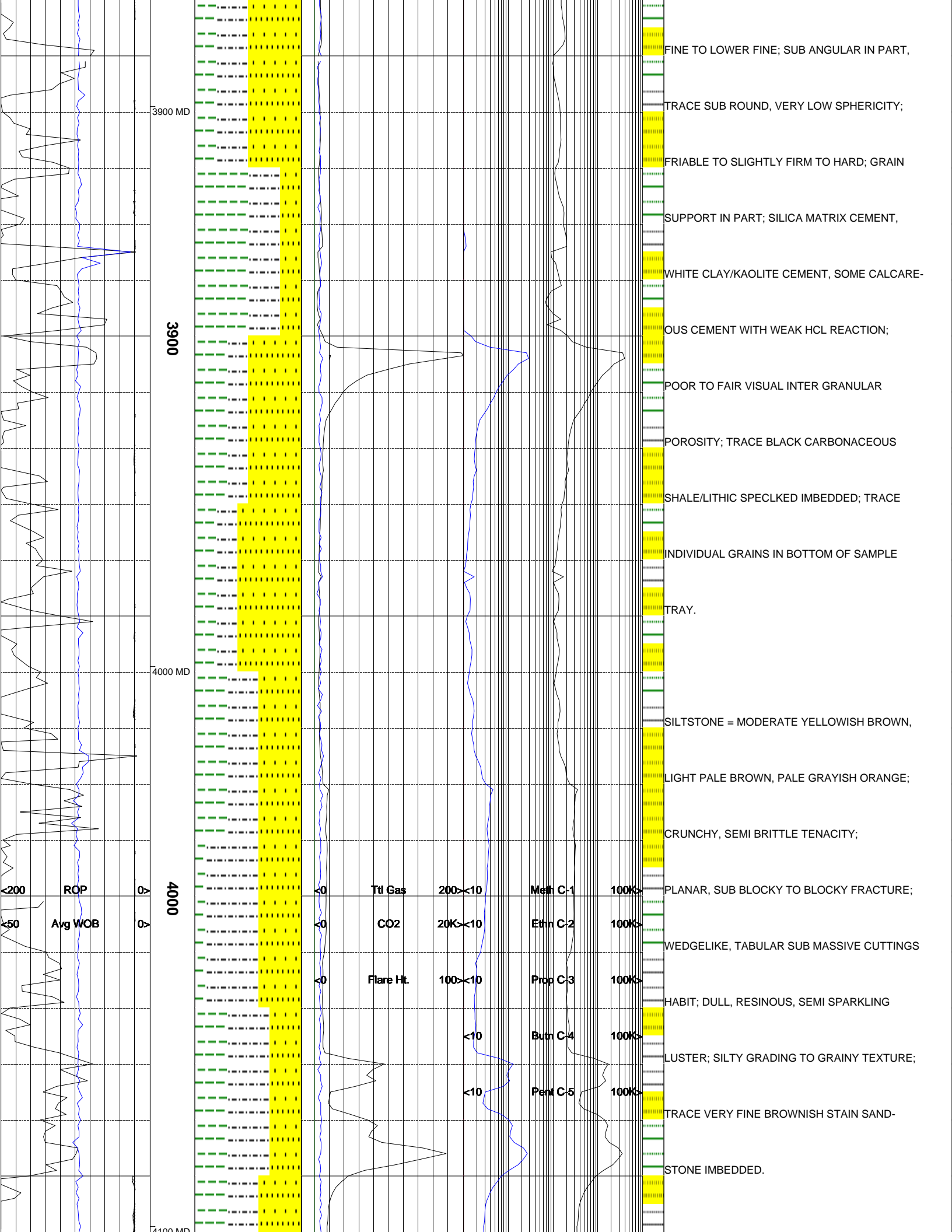
SPUD MUD	TO	3,717'
LSND	TO	12,175'
	TO	
	TO	

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	





3900 MD

3900

4000 MD

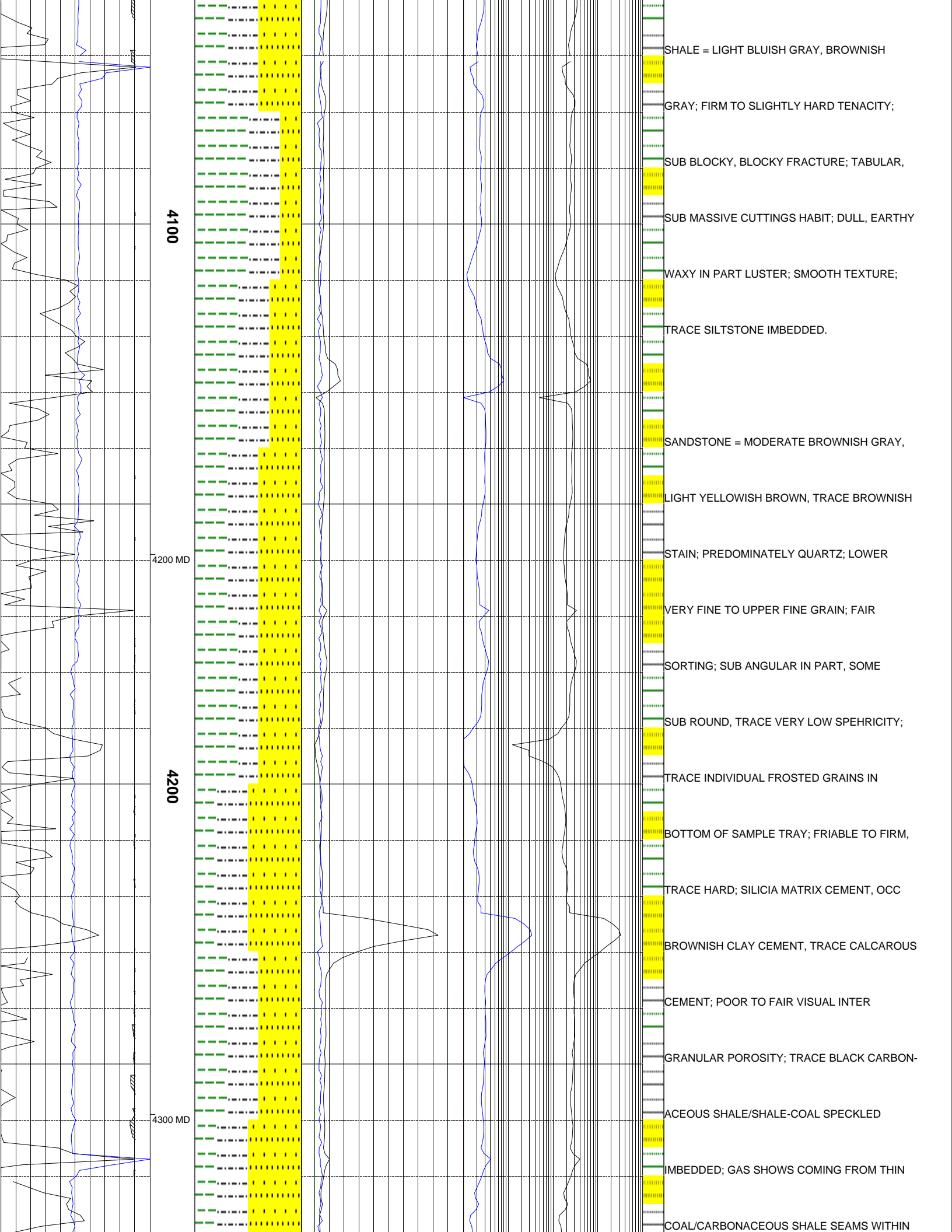
4000

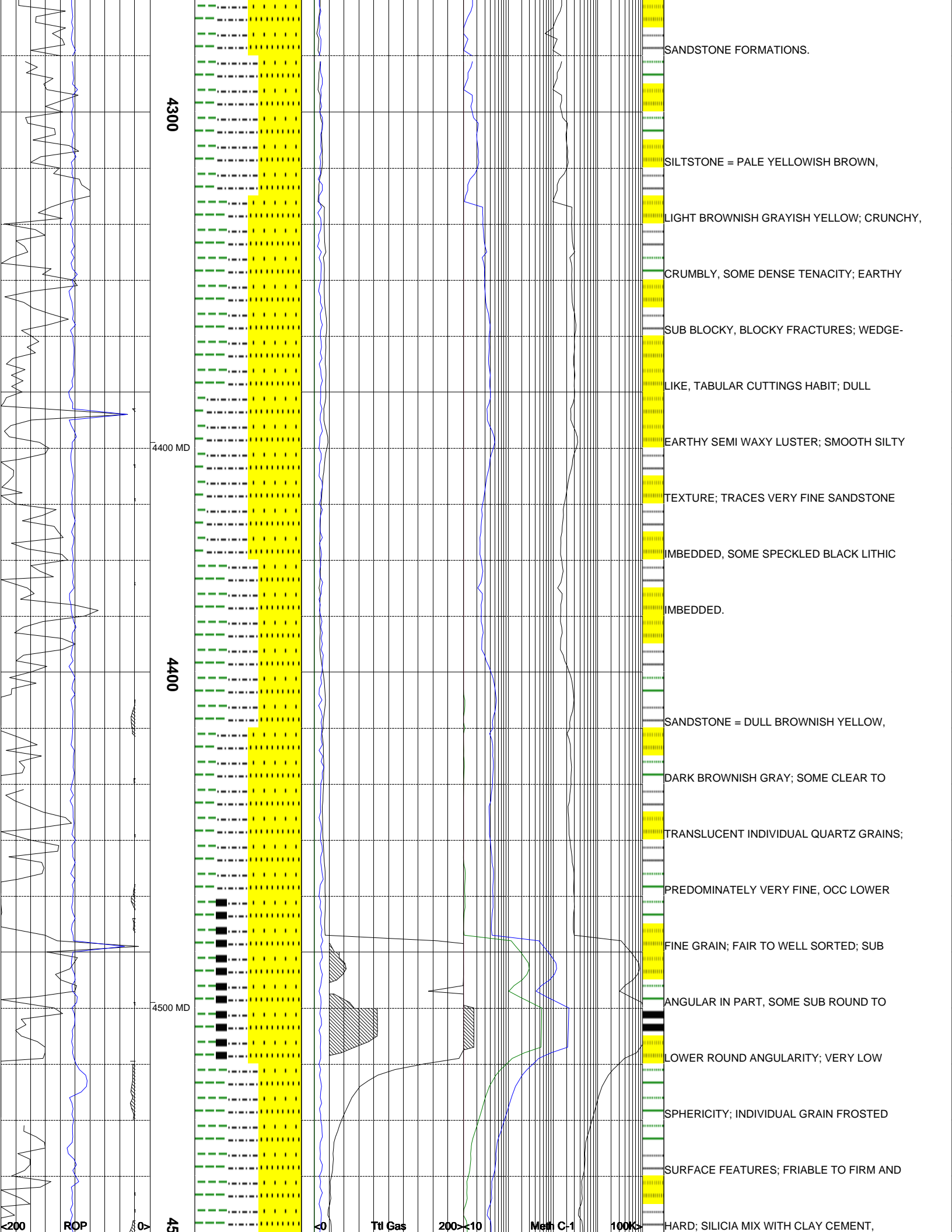
4100 MD

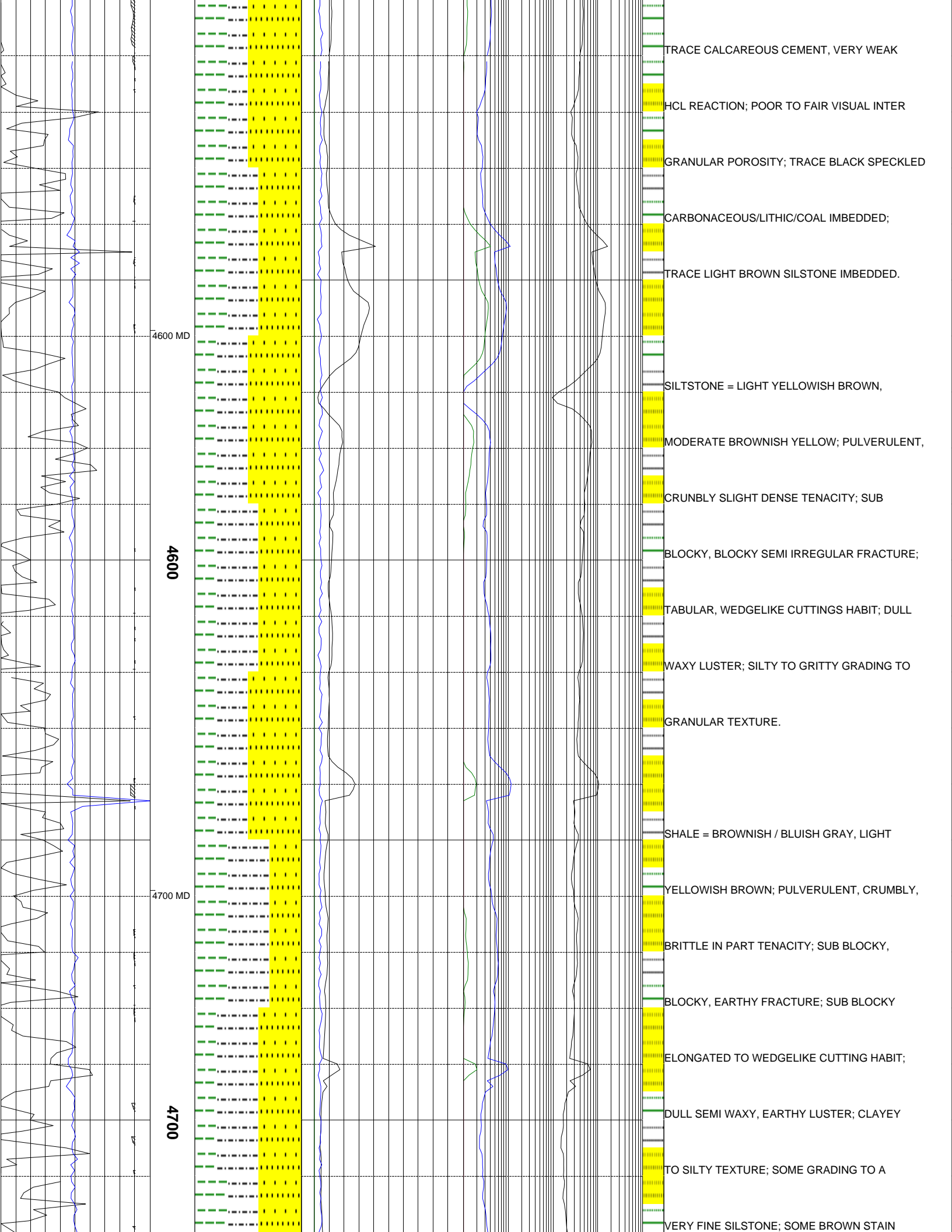
ROP
Avg WOB

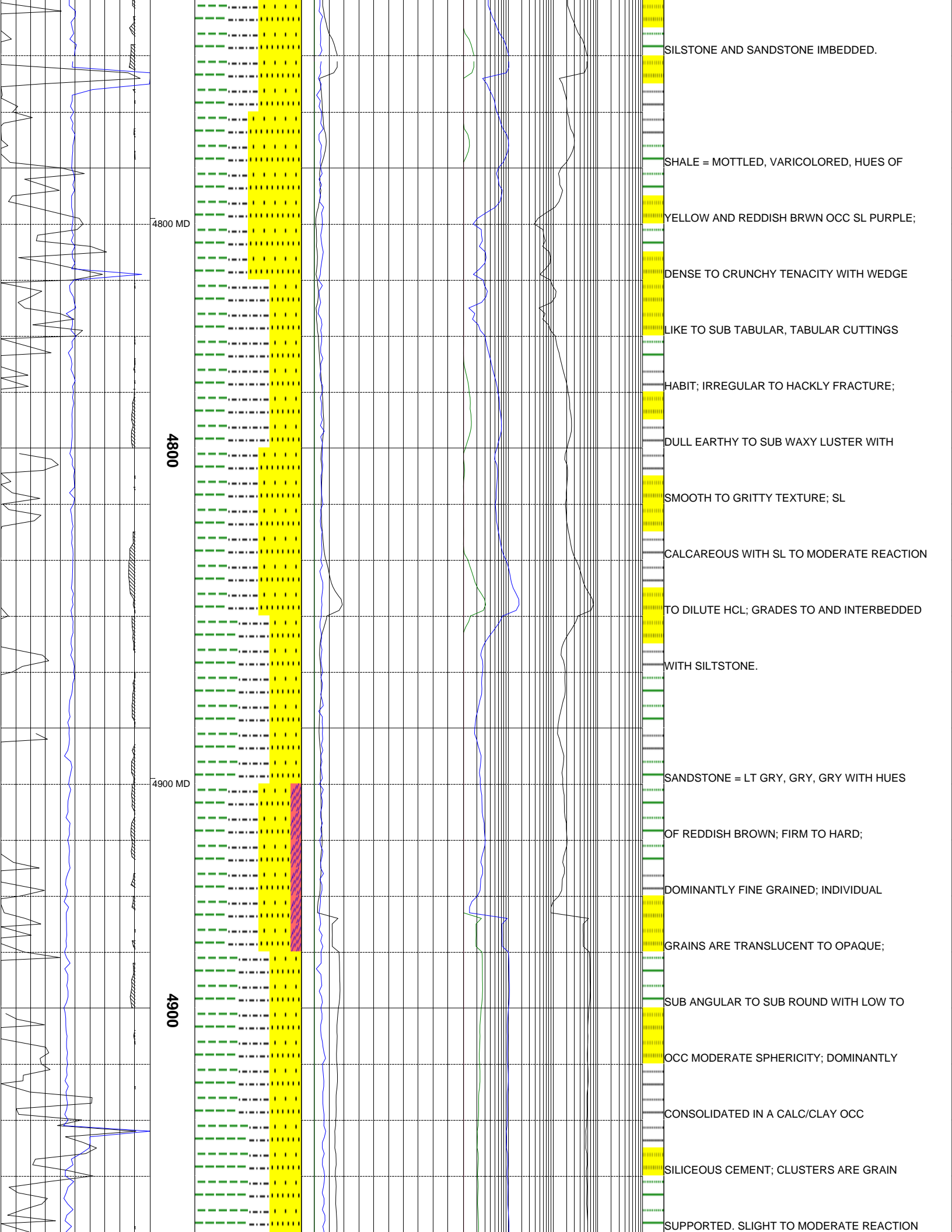
Ttl Gas 200<10
CO2 20K<10
Flare Ht. 100<10
Meth C-1 100K<
Ethn C-2 100K<
Prop C-3 100K<
Butn C-4 100K<
Pent C-5 100K<

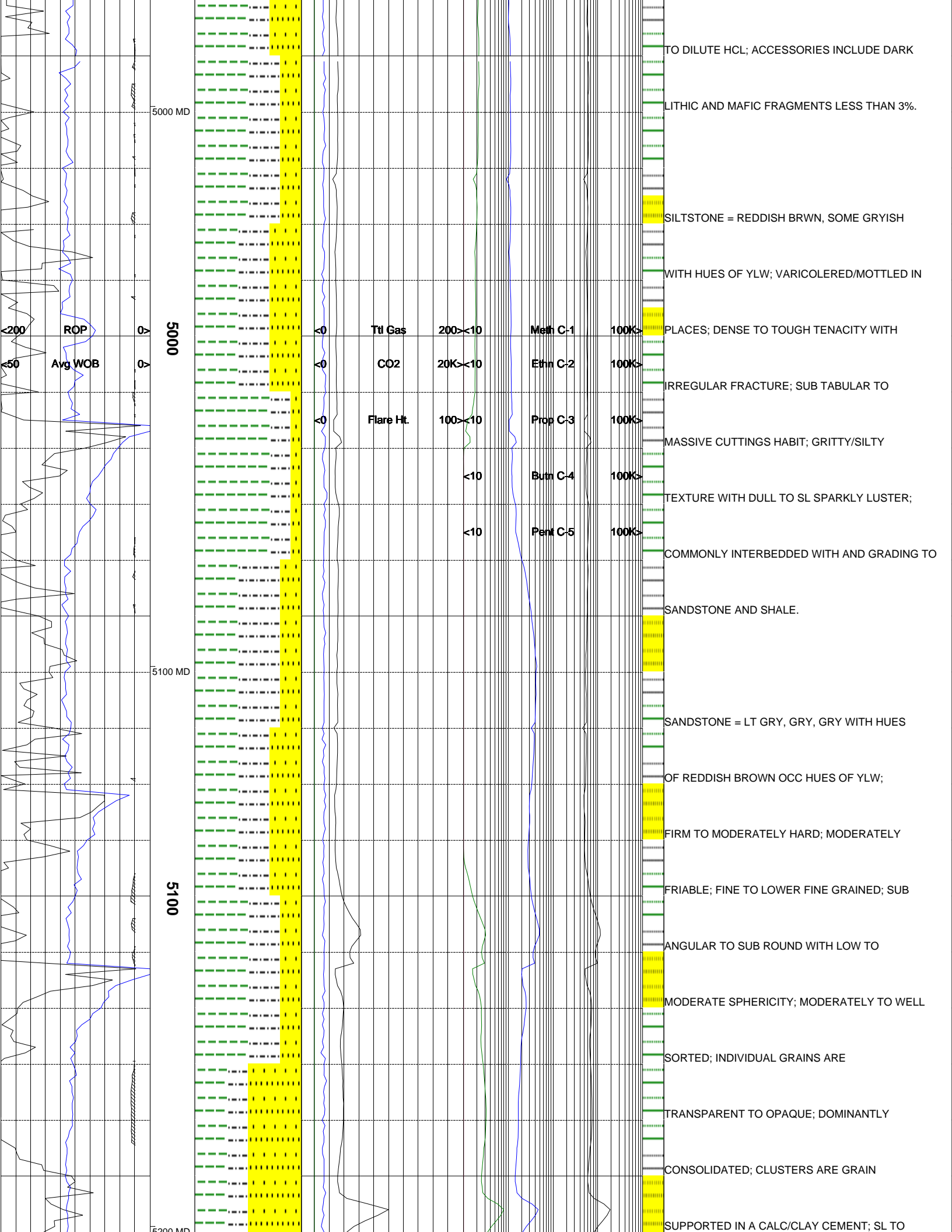
FINE TO LOWER FINE; SUB ANGULAR IN PART,
TRACE SUB ROUND, VERY LOW SPHERICITY;
FRIABLE TO SLIGHTLY FIRM TO HARD; GRAIN
SUPPORT IN PART; SILICA MATRIX CEMENT,
WHITE CLAY/KAOLITE CEMENT, SOME CALCARE-
OUS CEMENT WITH WEAK HCL REACTION;
POOR TO FAIR VISUAL INTER GRANULAR
POROSITY; TRACE BLACK CARBONACEOUS
SHALE/LITHIC SPECKLED IMBEDDED; TRACE
INDIVIDUAL GRAINS IN BOTTOM OF SAMPLE
TRAY.
SILTSTONE = MODERATE YELLOWISH BROWN,
LIGHT PALE BROWN, PALE GRAYISH ORANGE;
CRUNCHY, SEMI BRITTLE TENACITY;
PLANAR, SUB BLOCKY TO BLOCKY FRACTURE;
WEDGELIKE, TABULAR SUB MASSIVE CUTTINGS
HABIT; DULL, RESINOUS, SEMI SPARKLING
CLUSTER; SILTY GRADING TO GRAINY TEXTURE;
TRACE VERY FINE BROWNISH STAIN SAND-
STONE IMBEDDED.

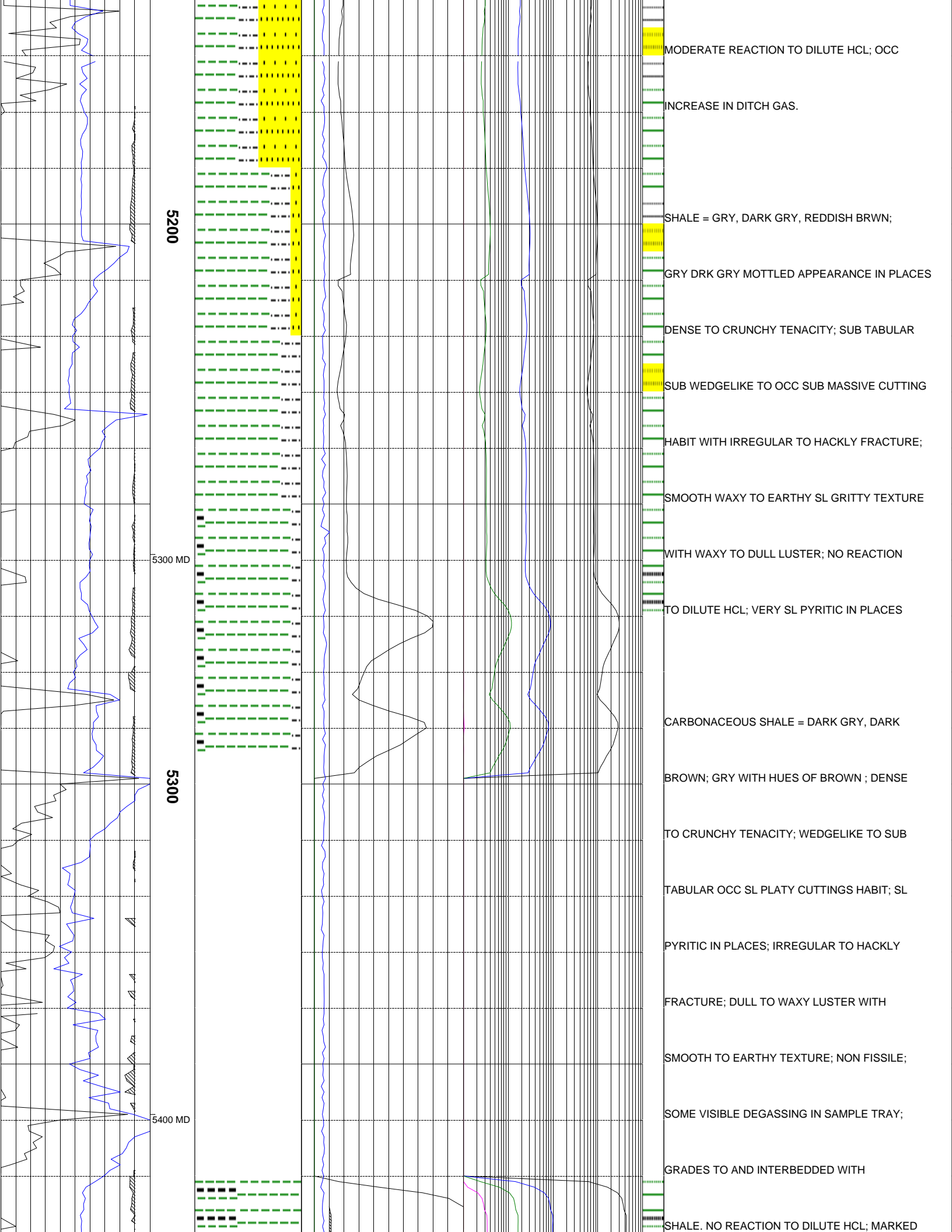


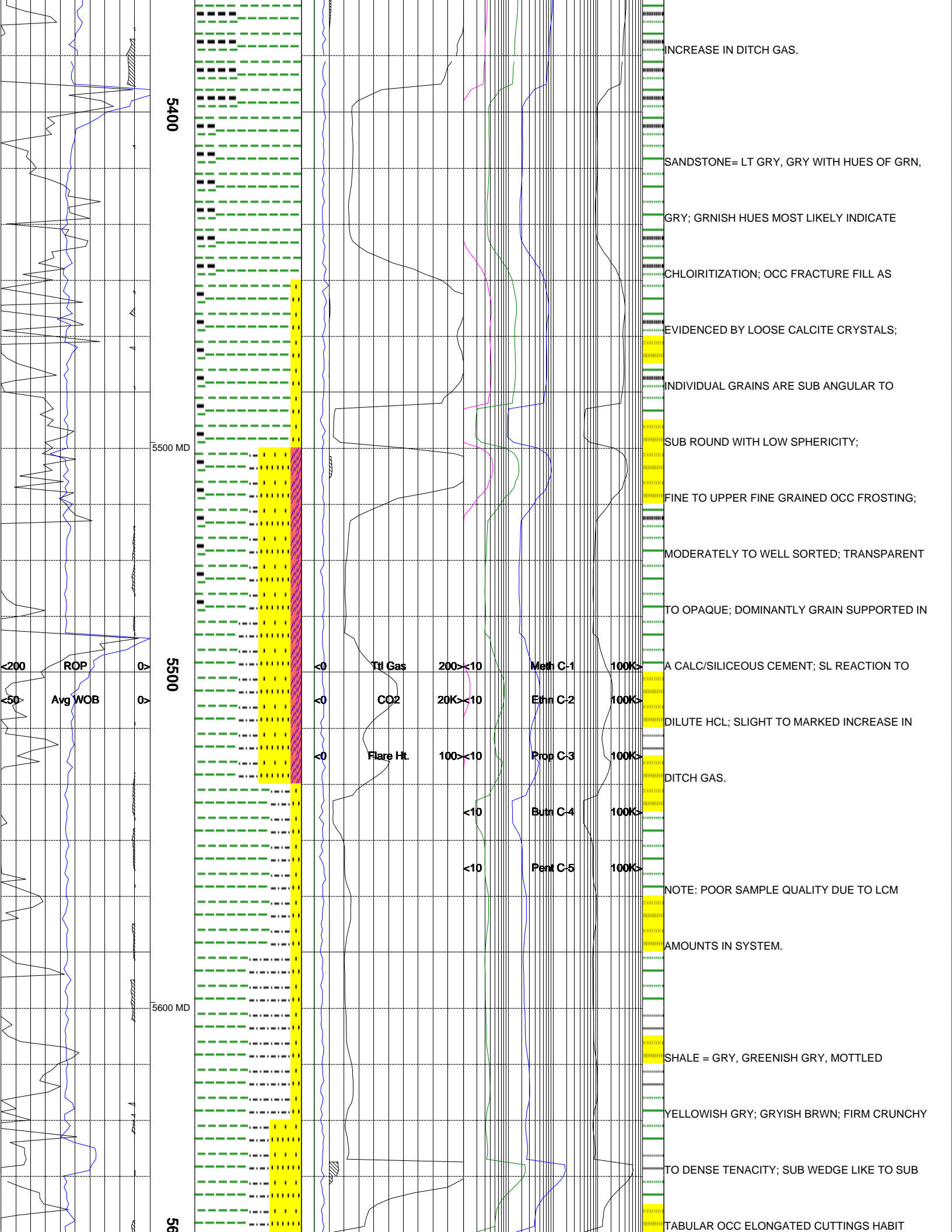


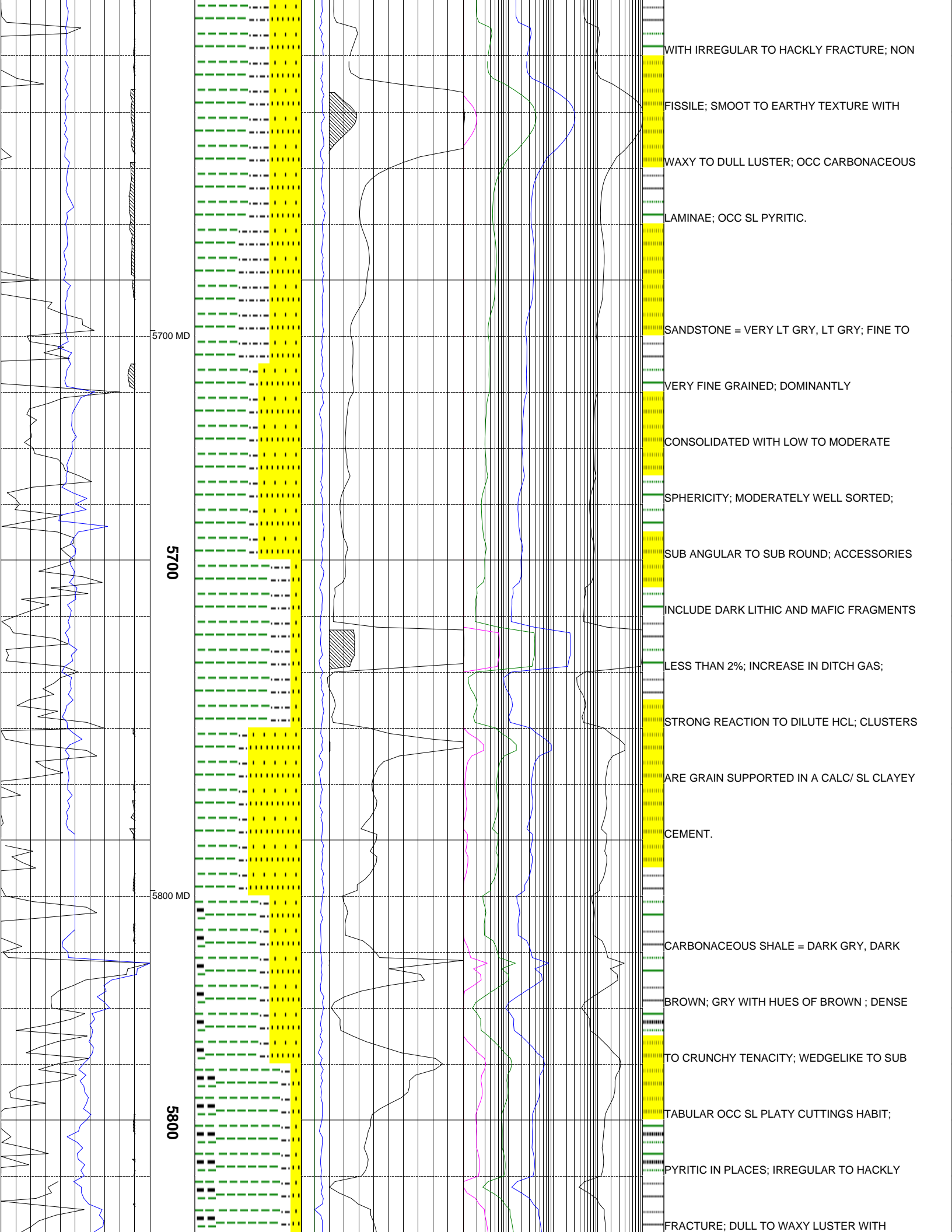


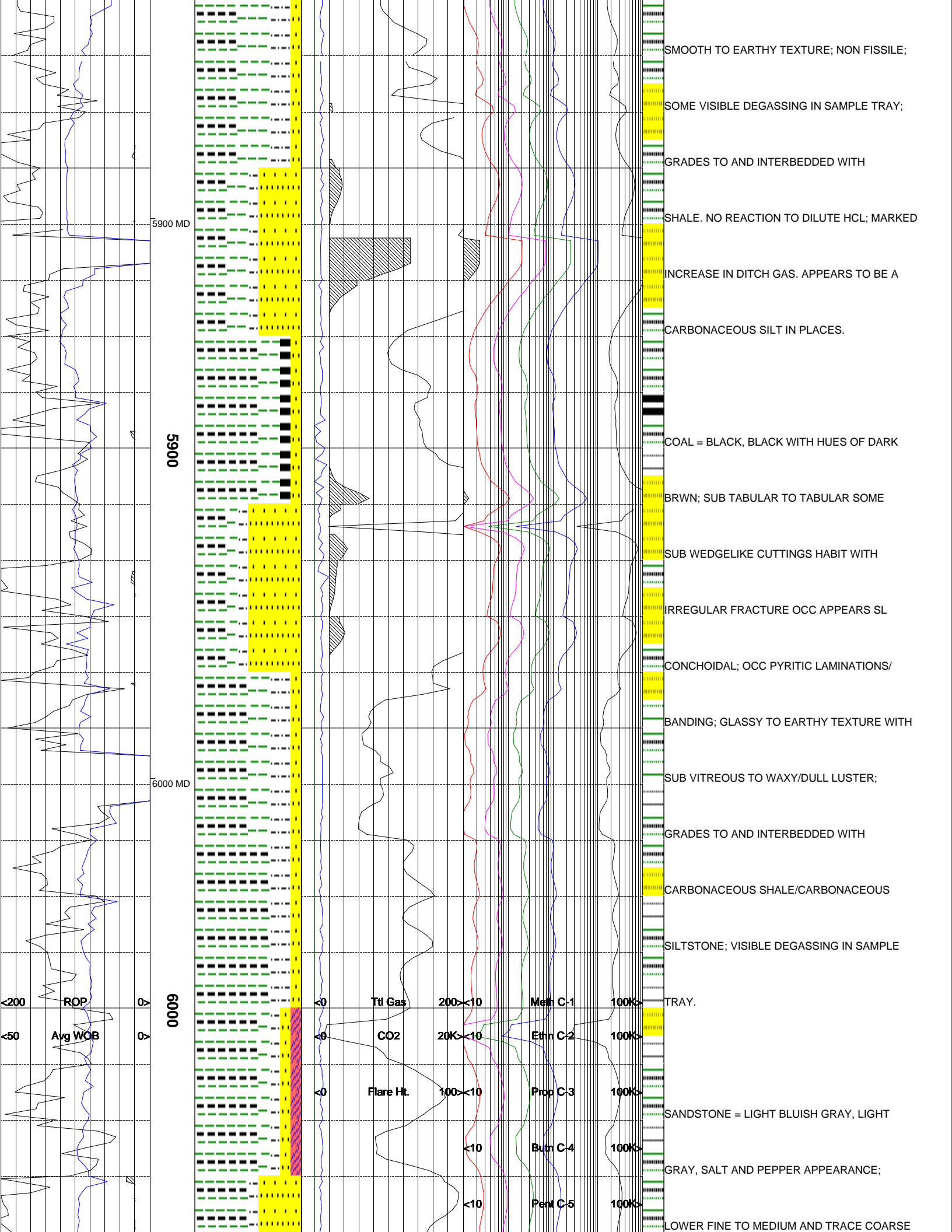


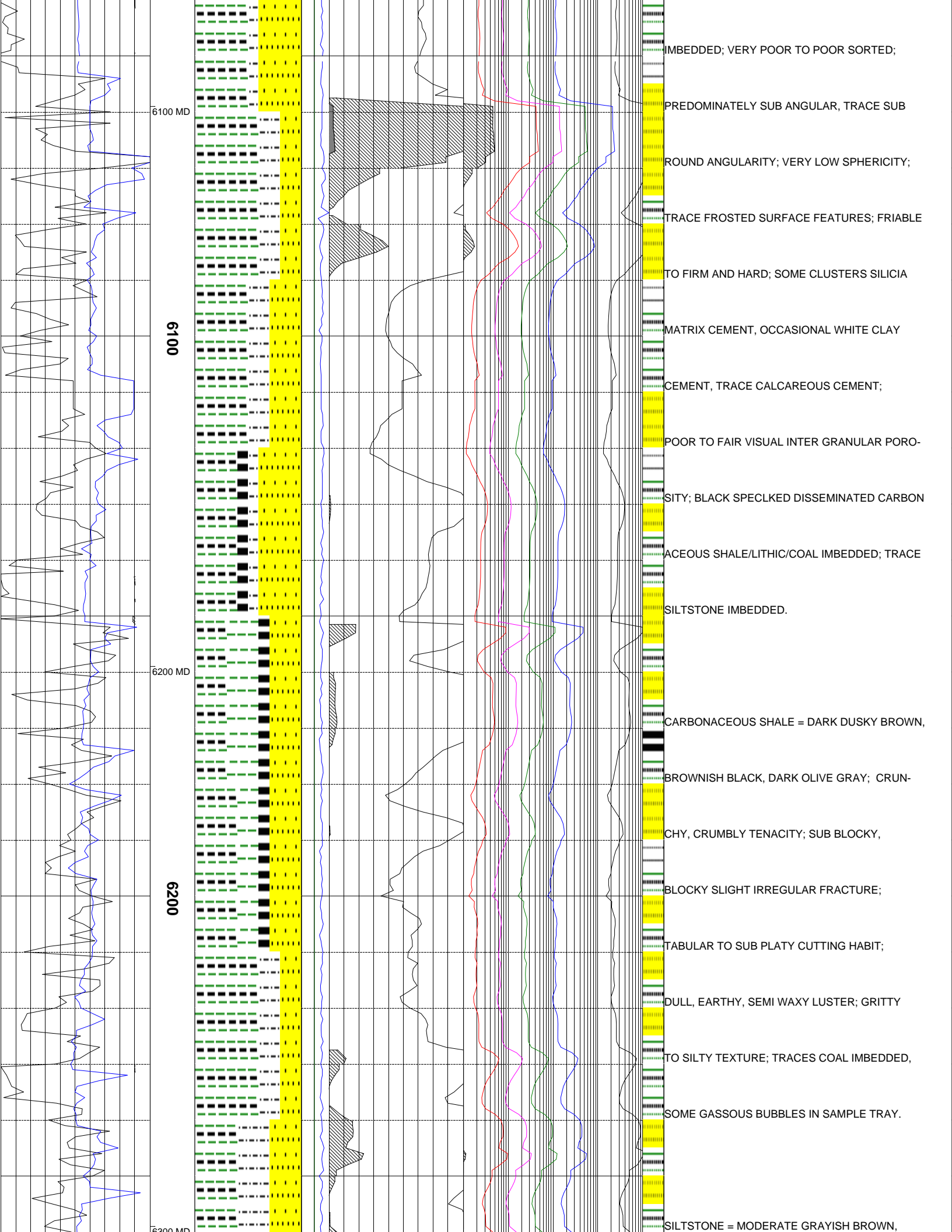


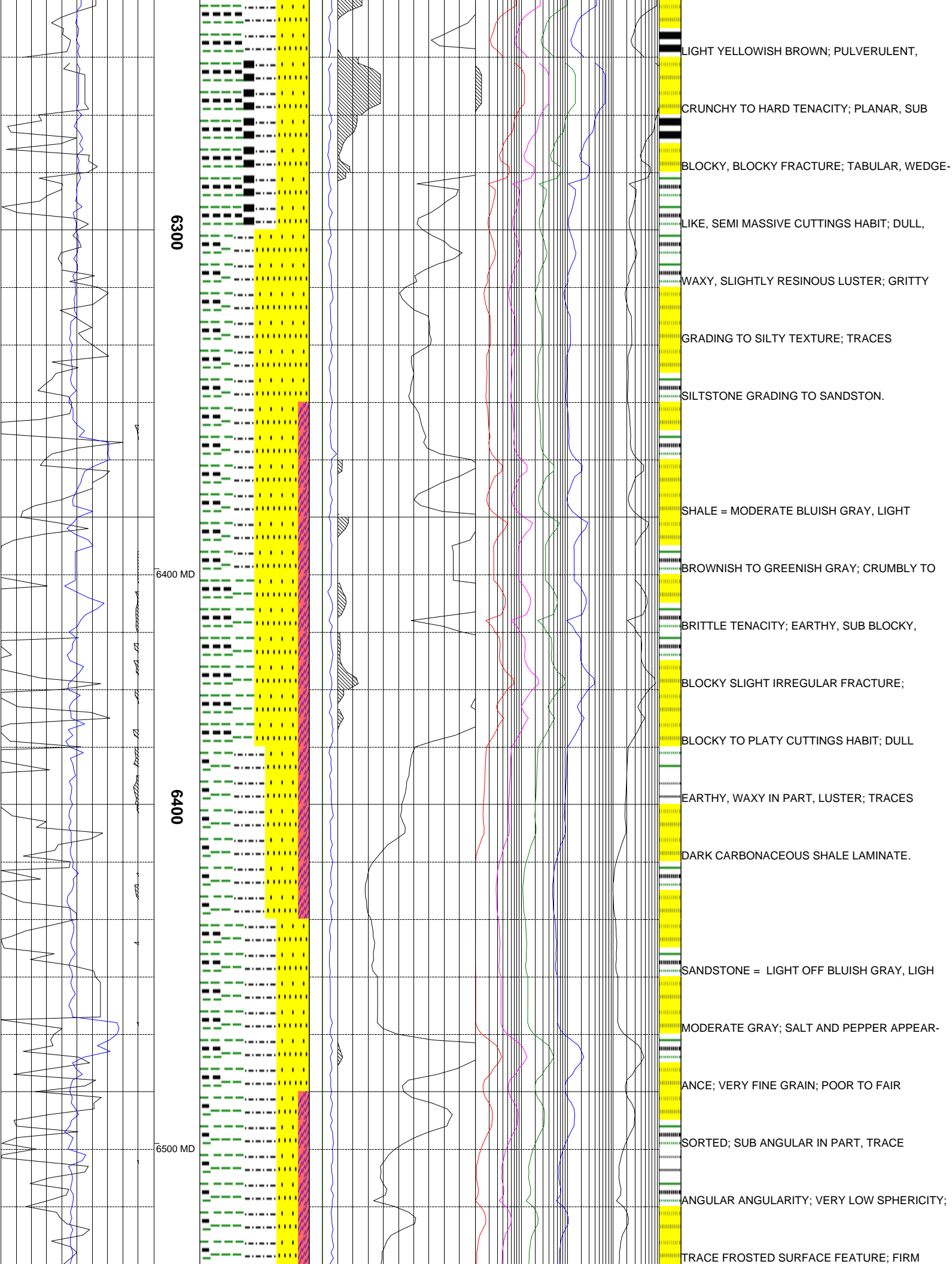


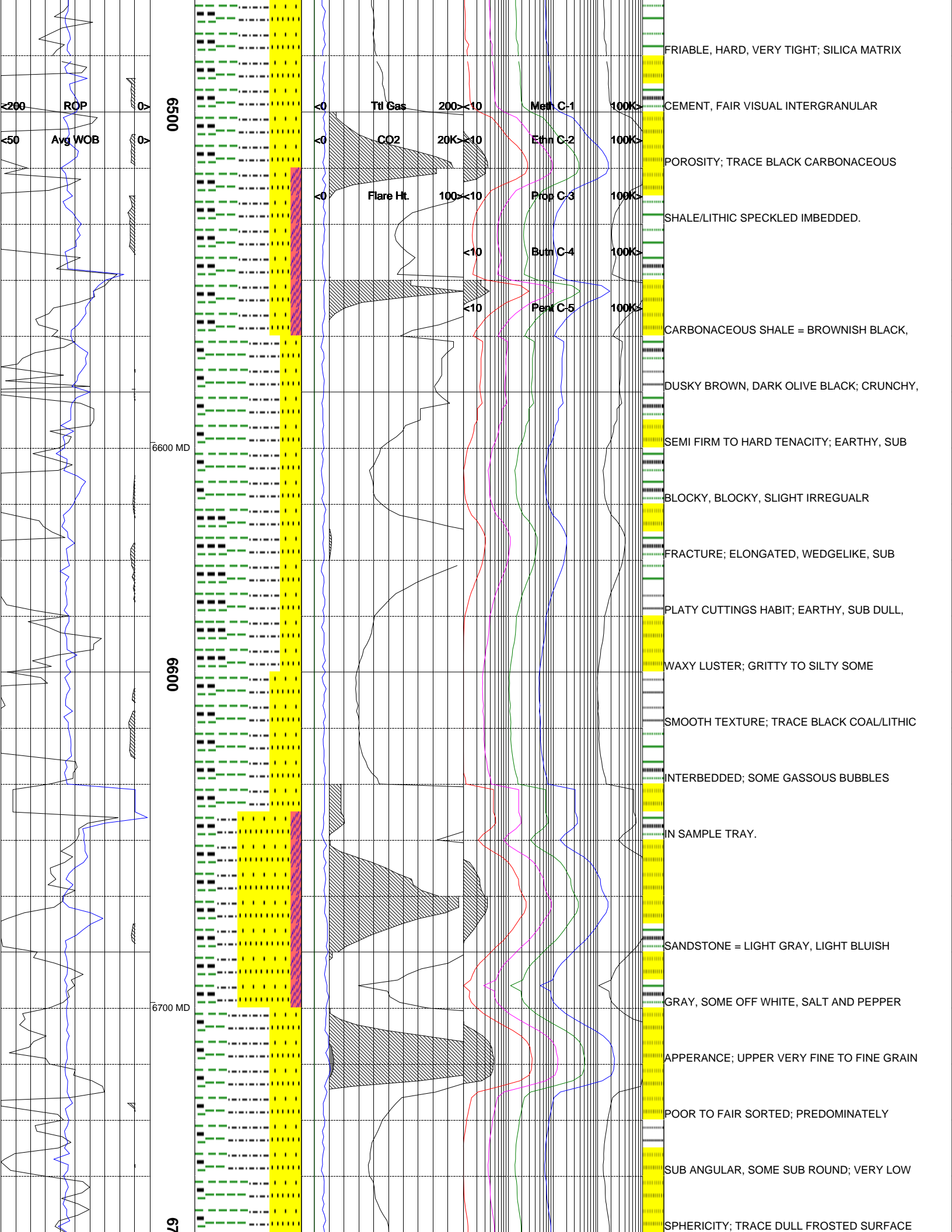


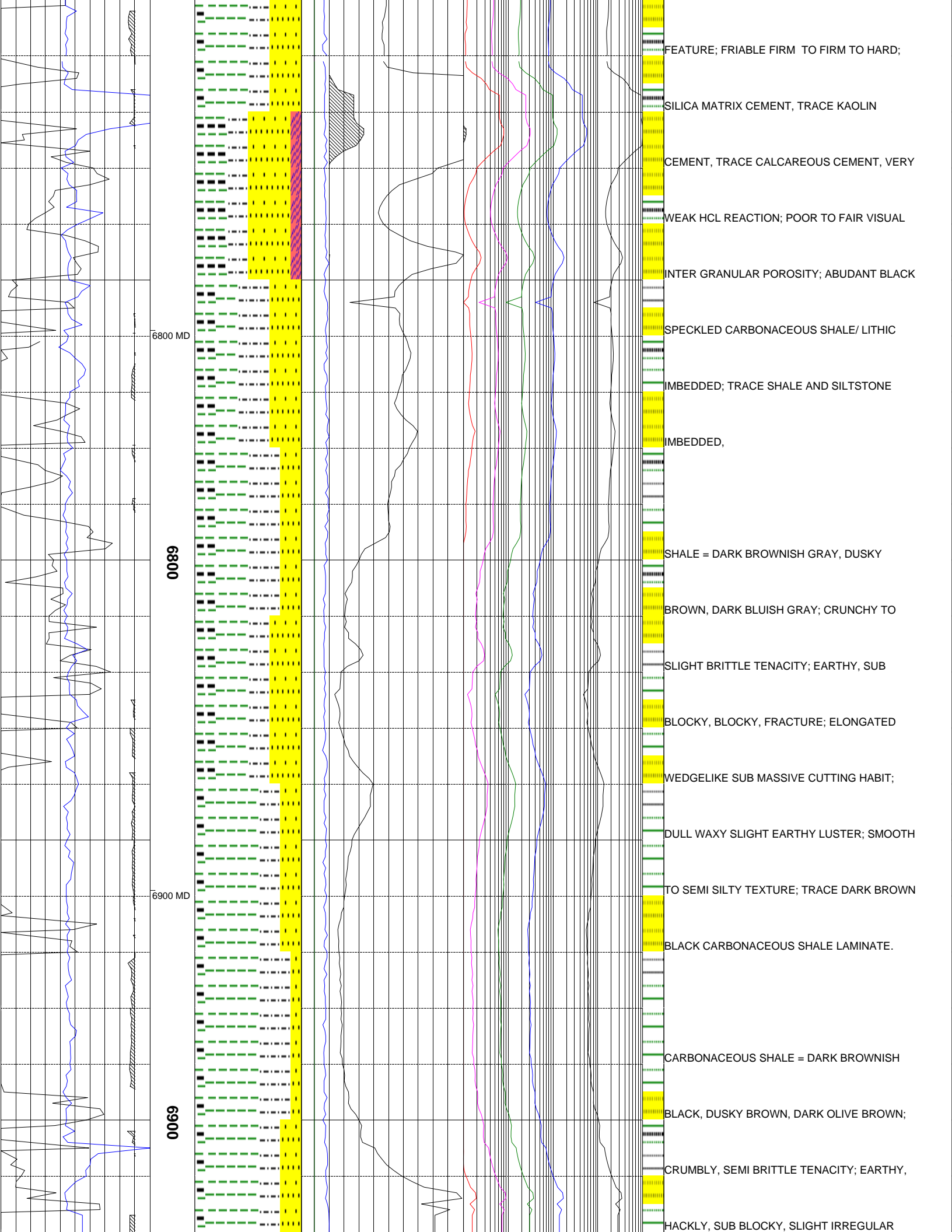


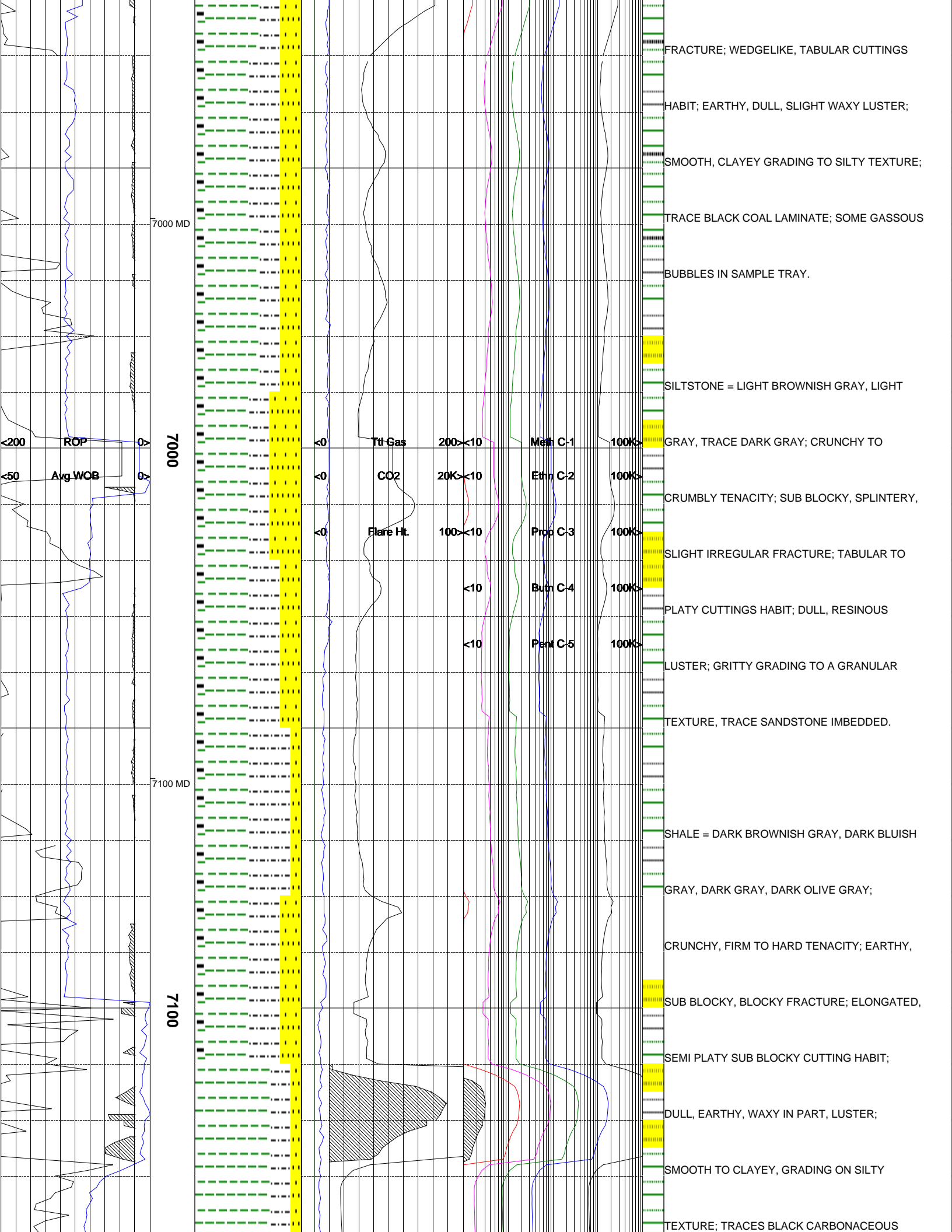


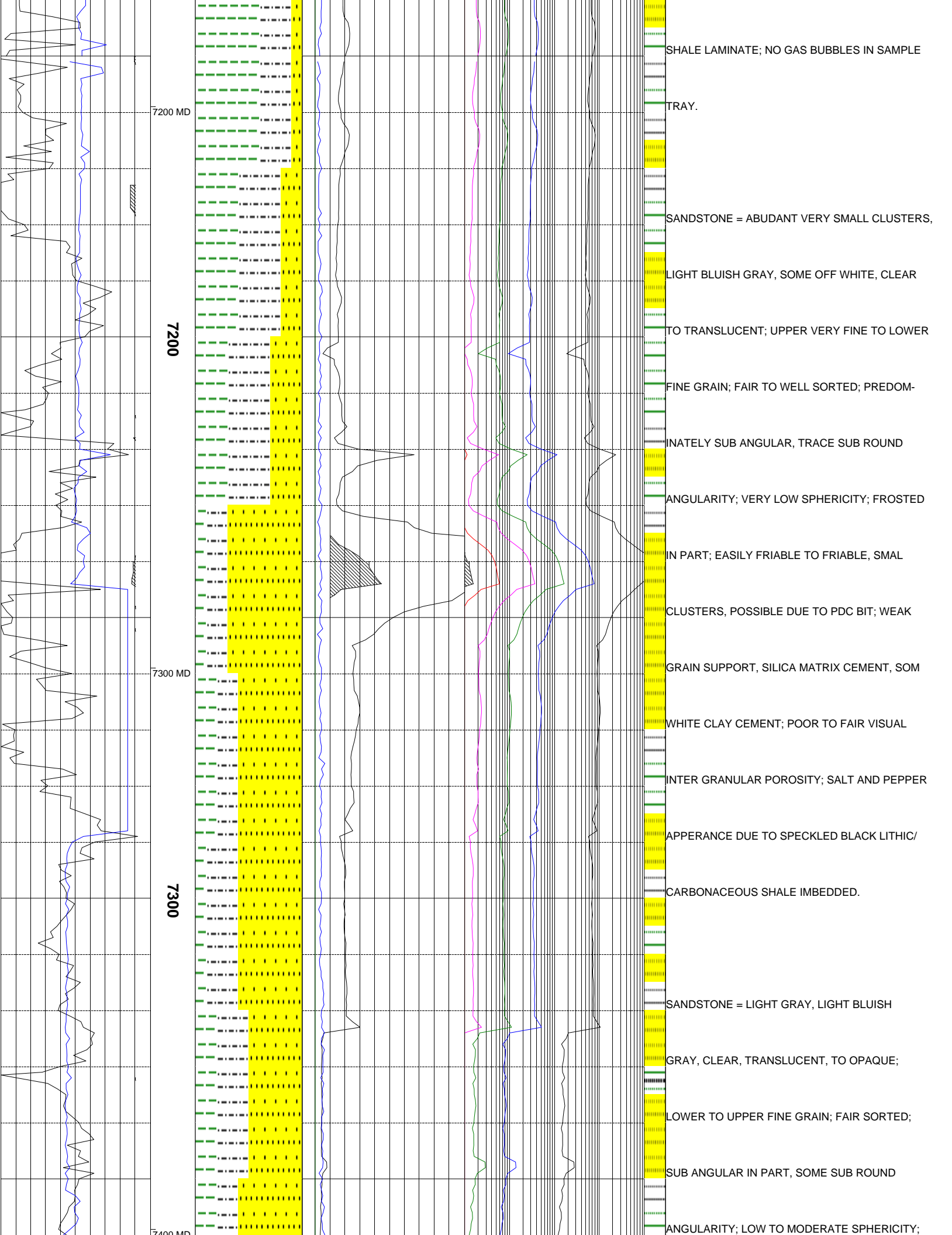


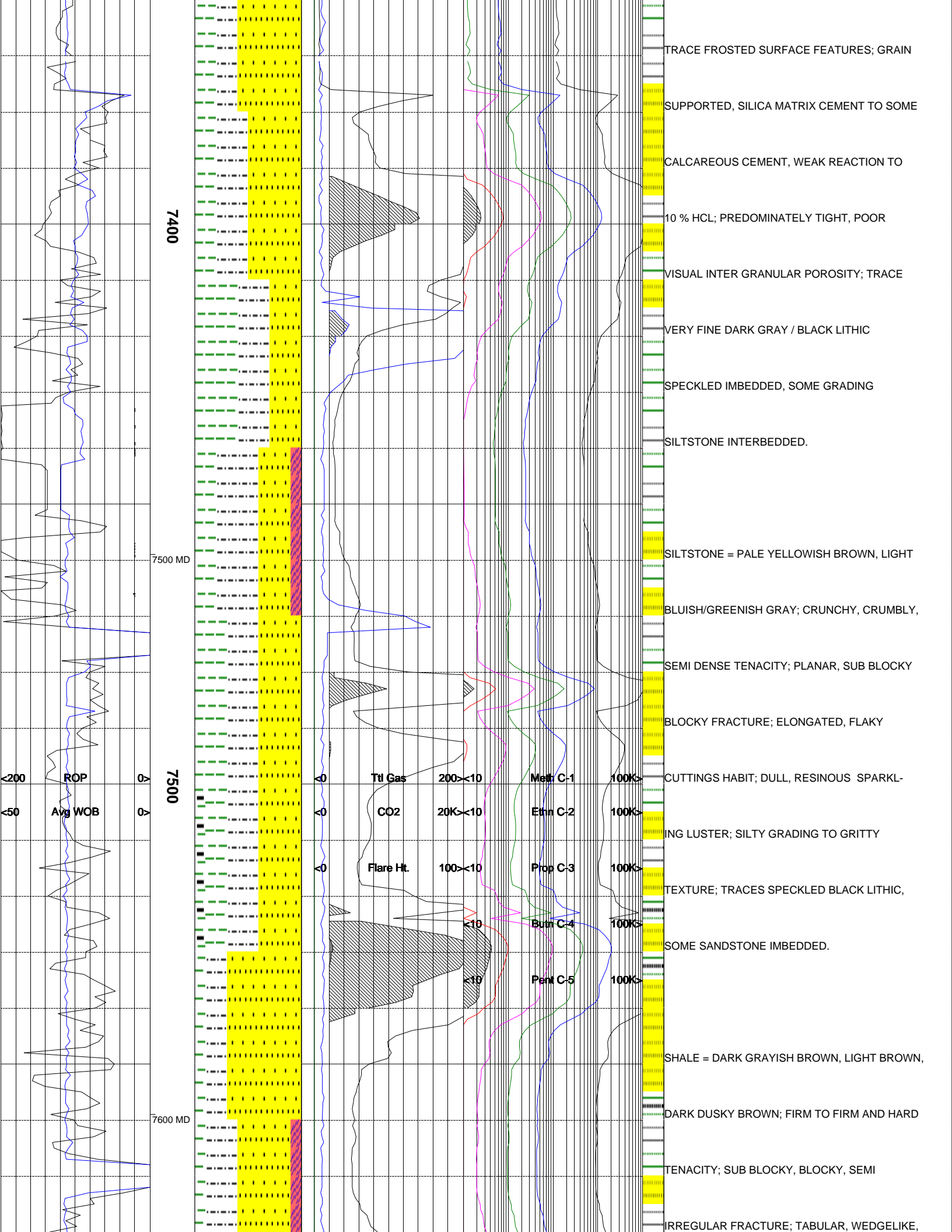


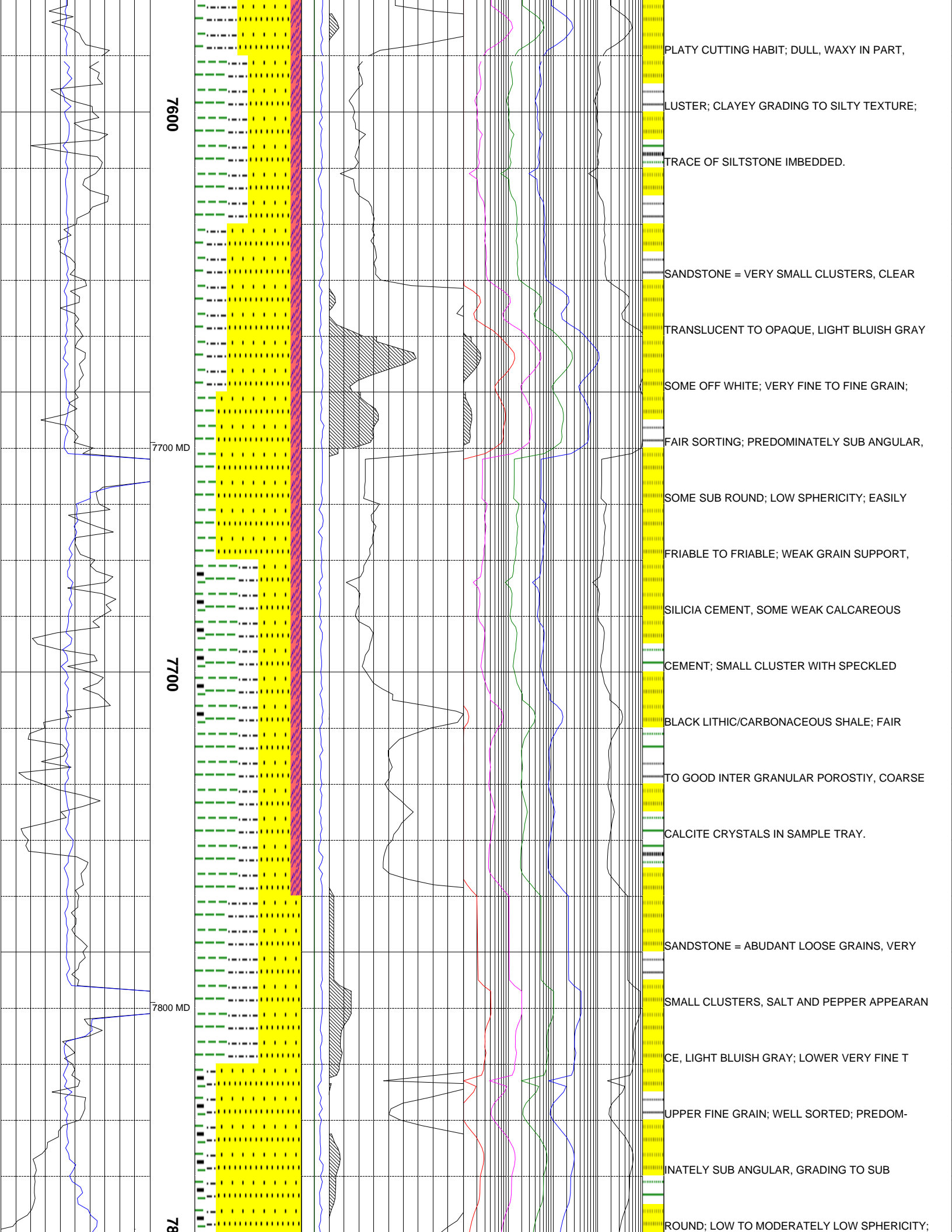


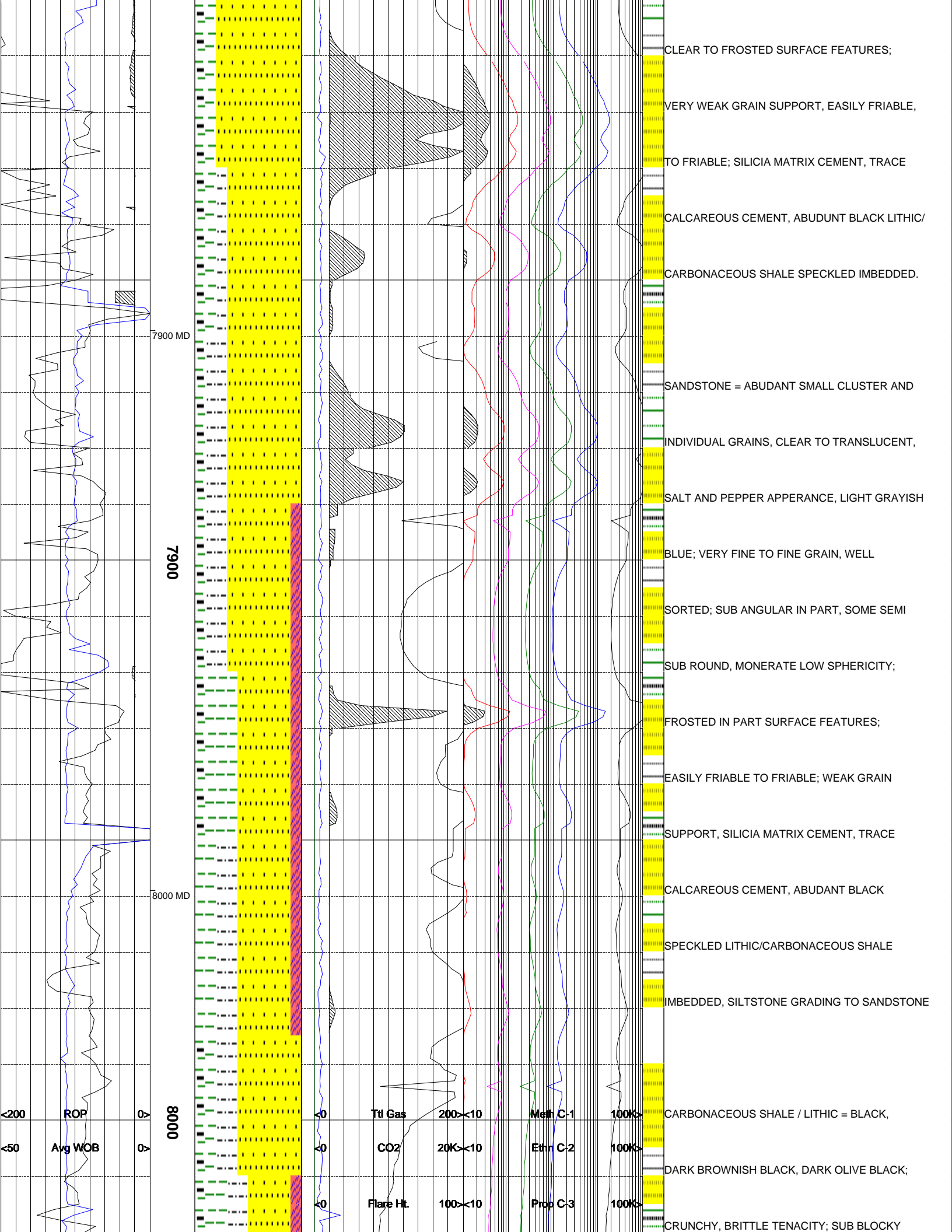


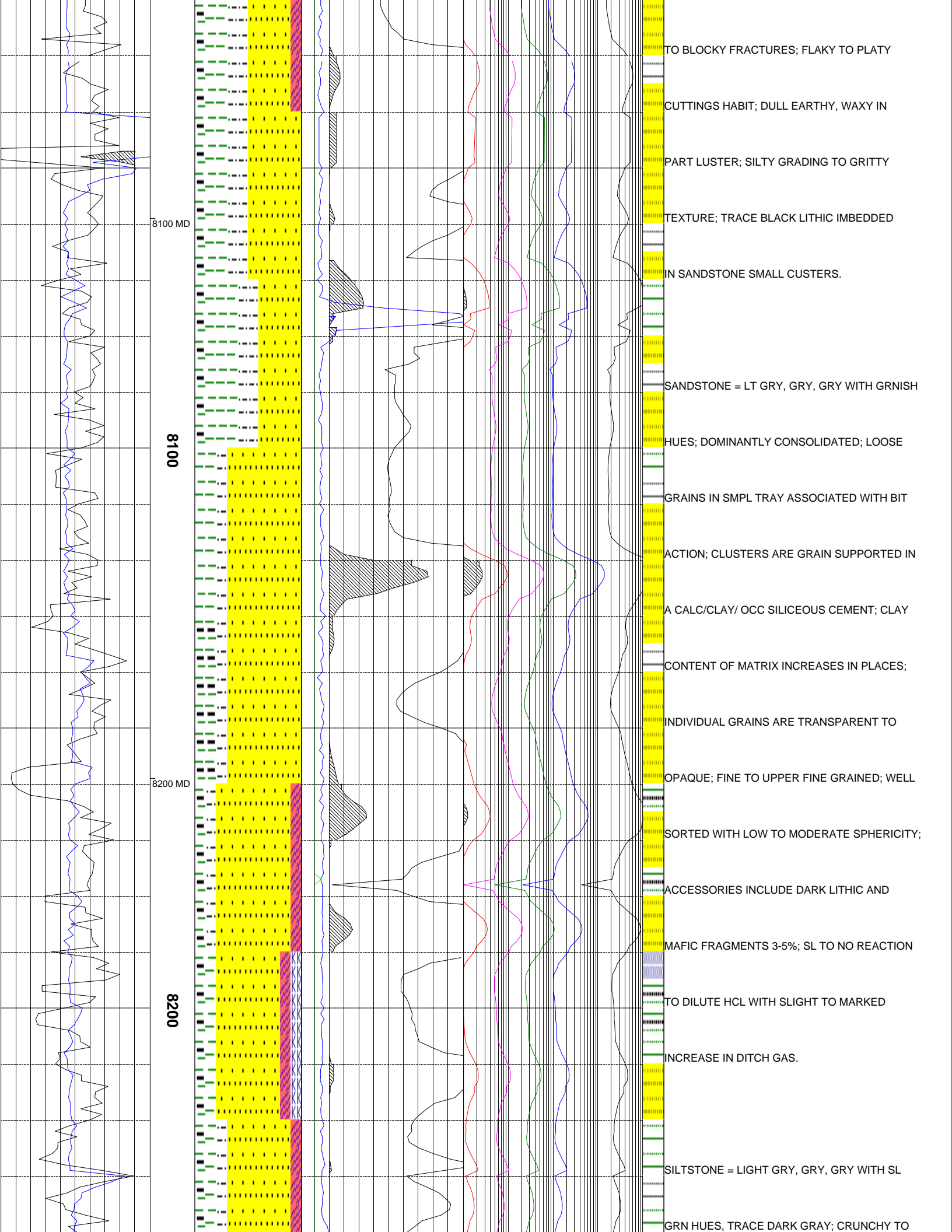


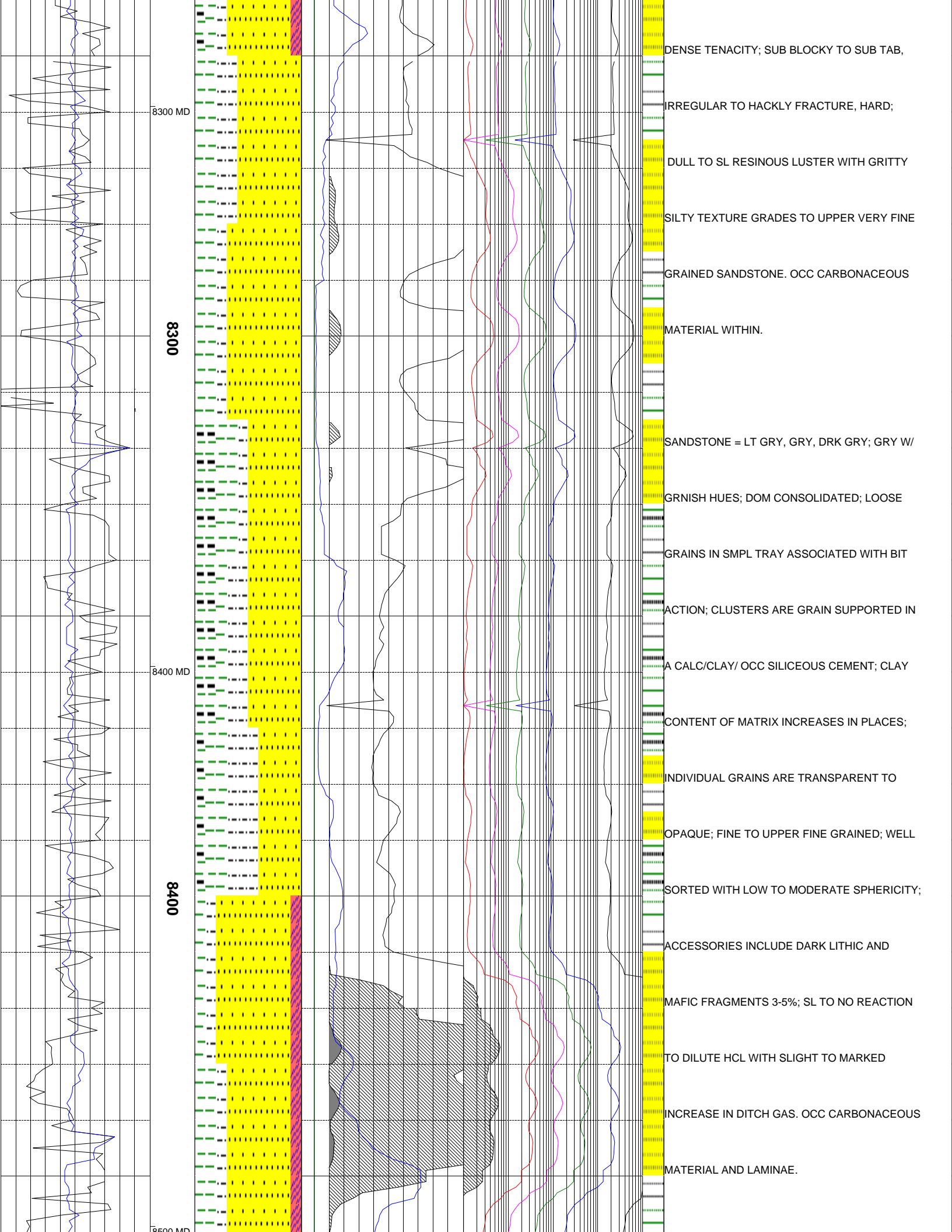


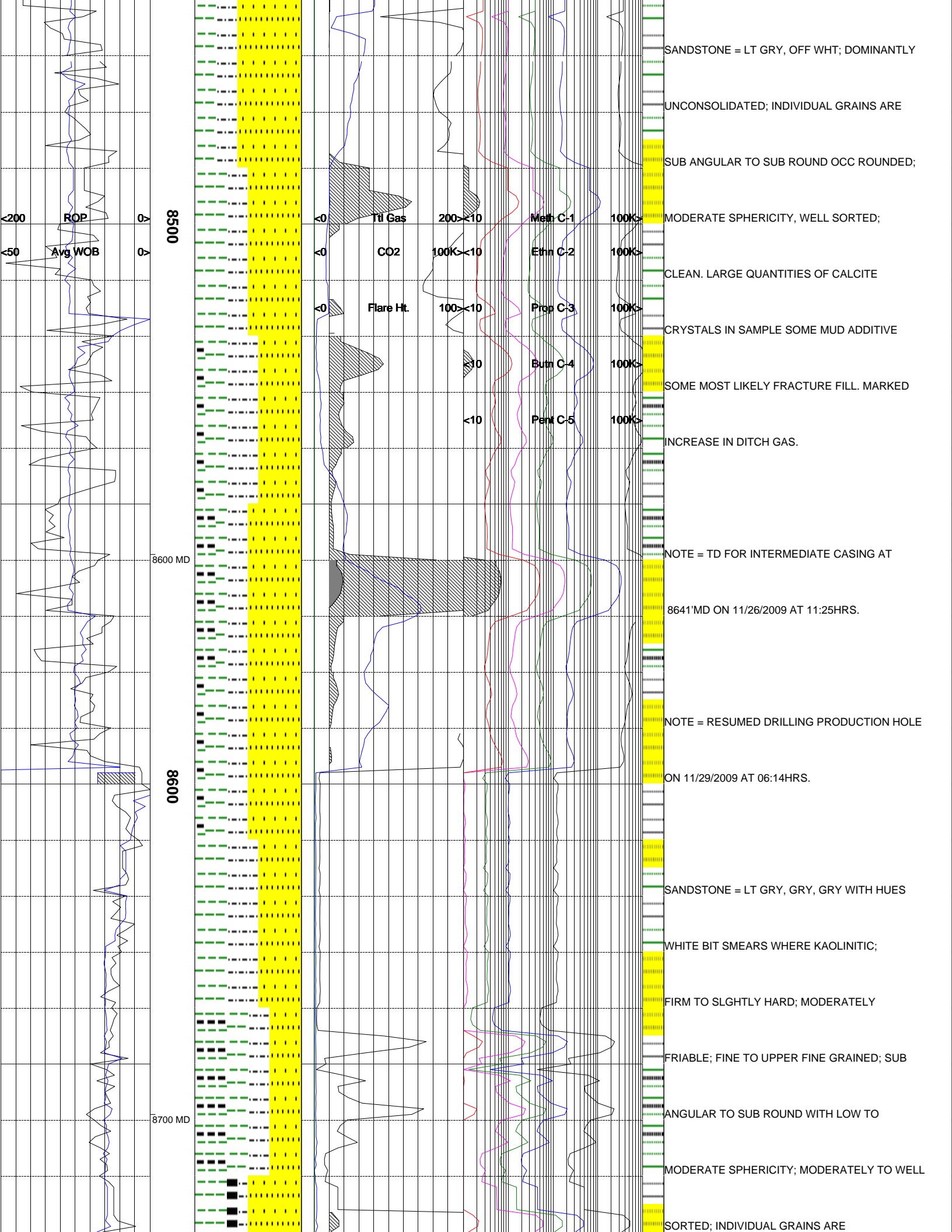


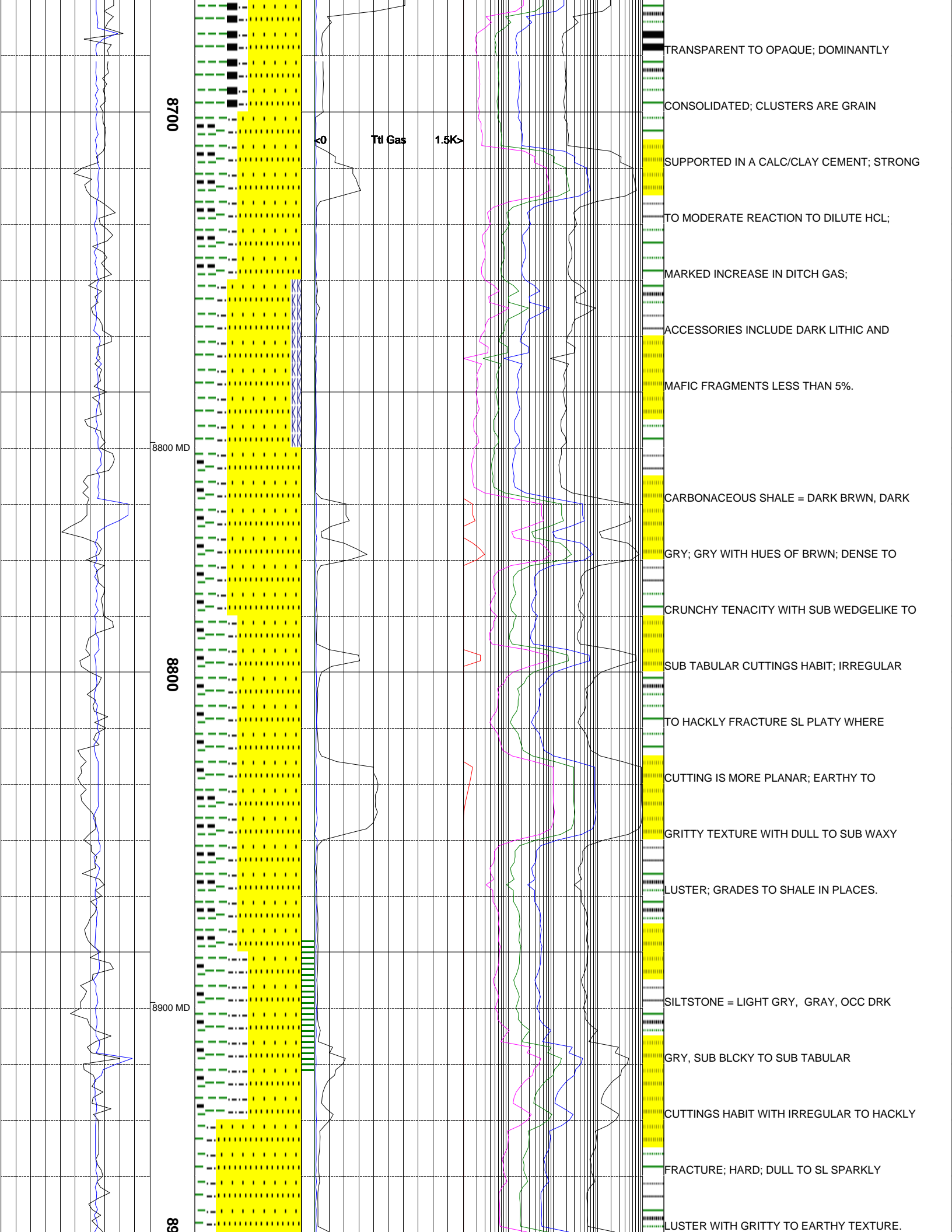


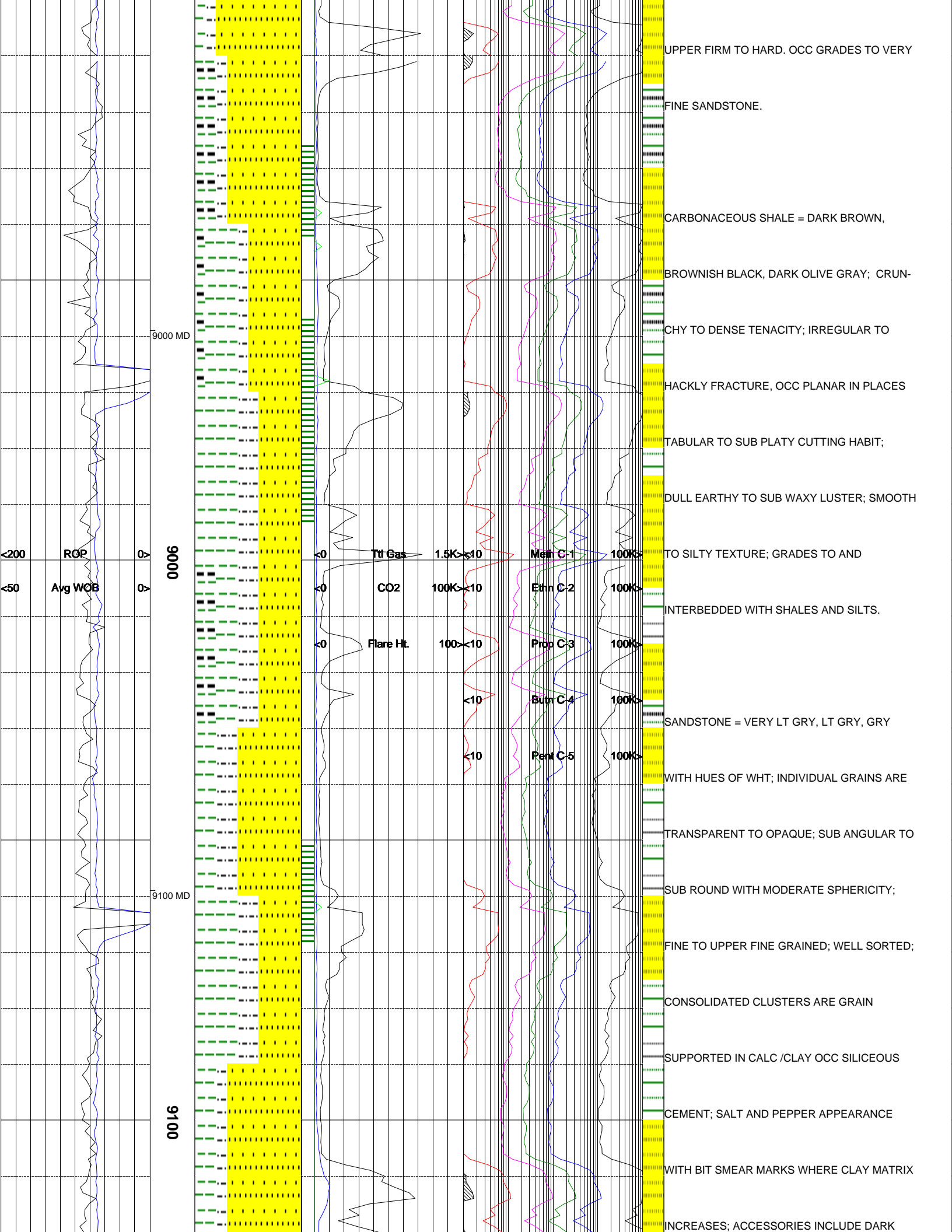


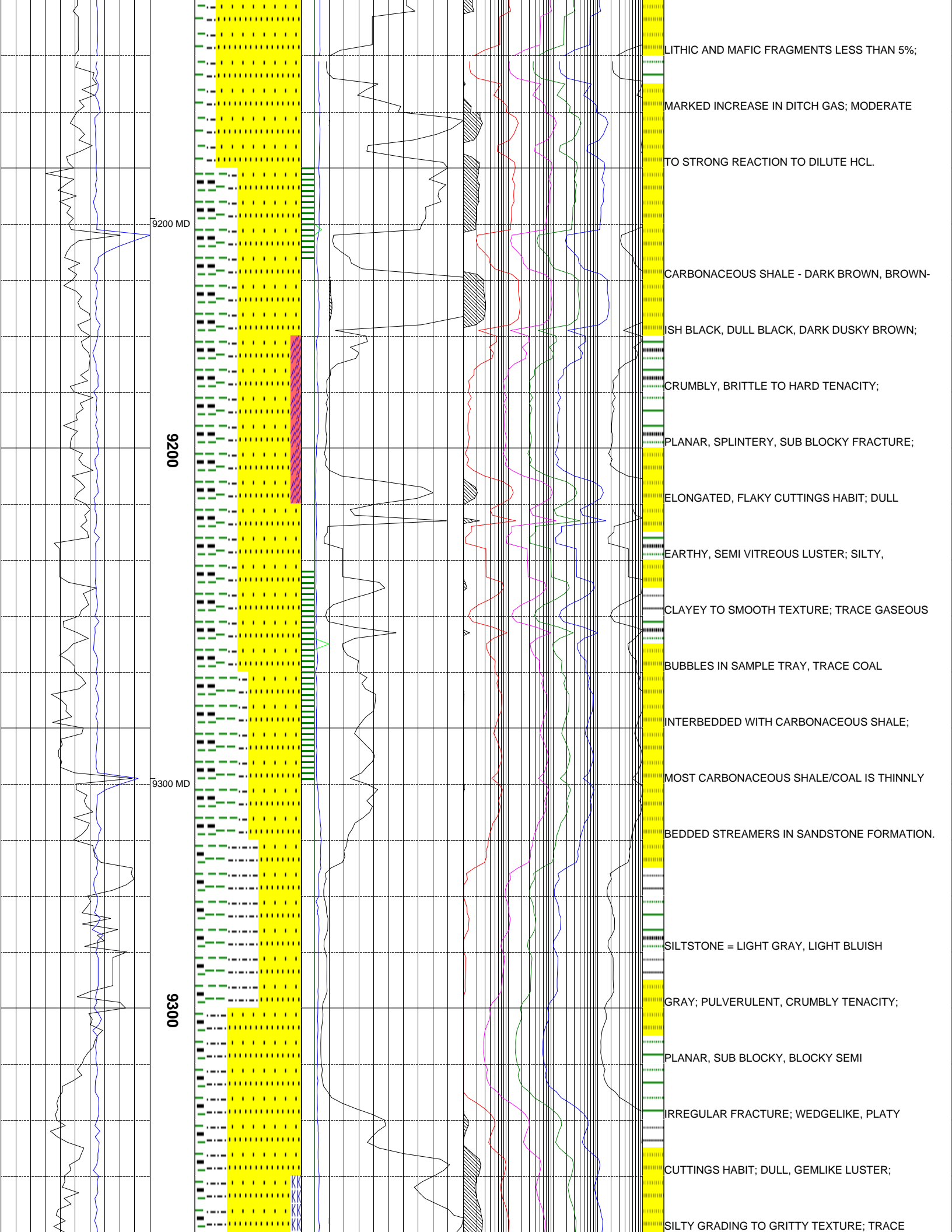


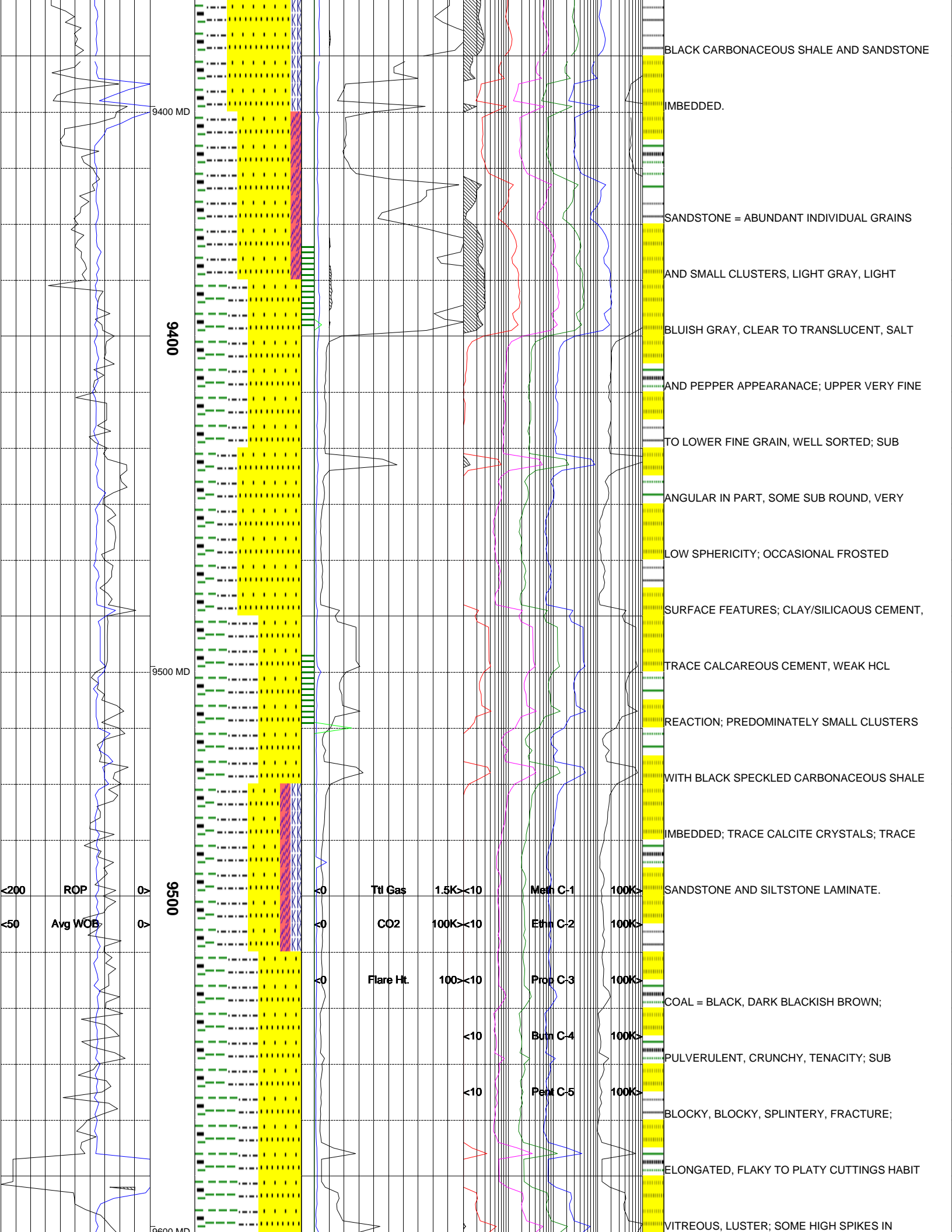


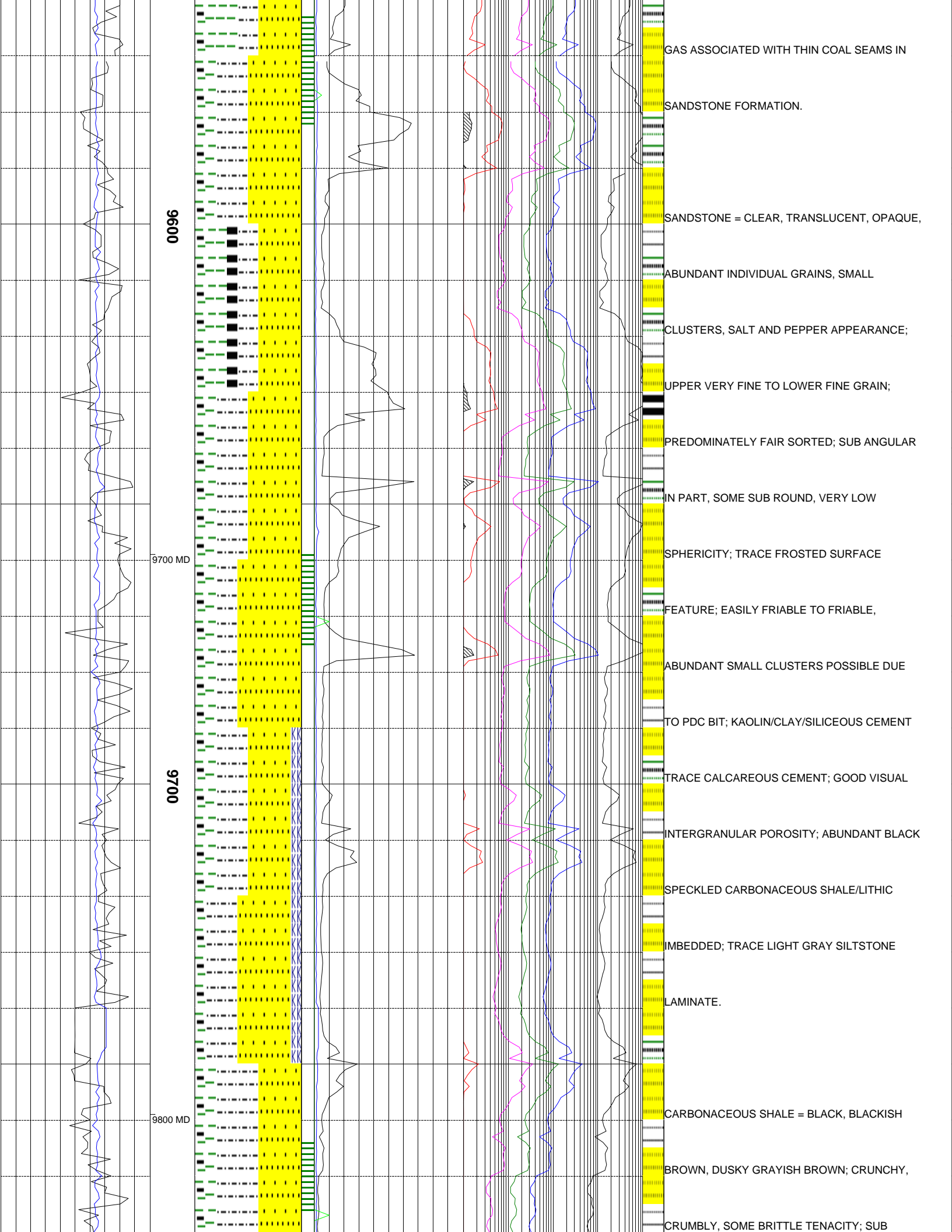


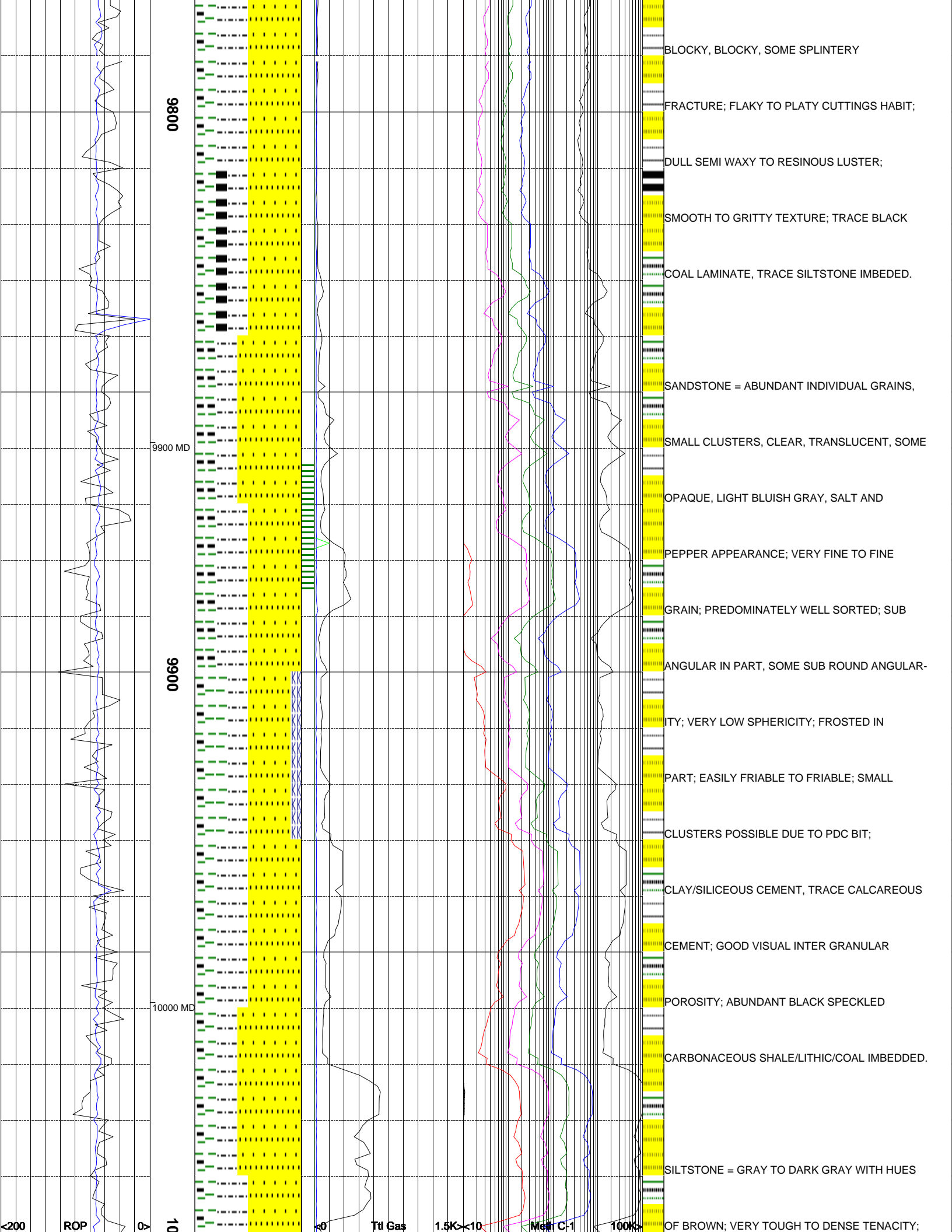


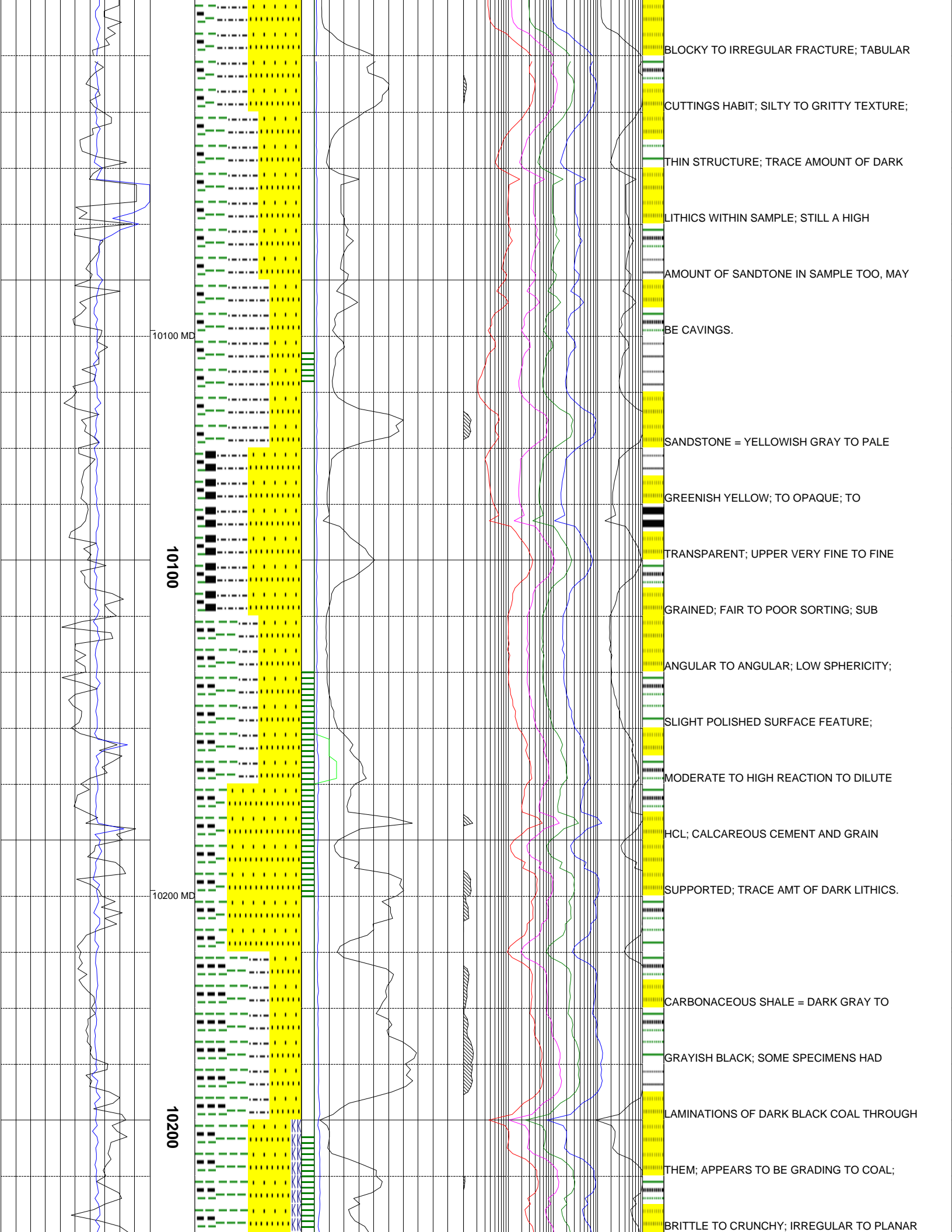


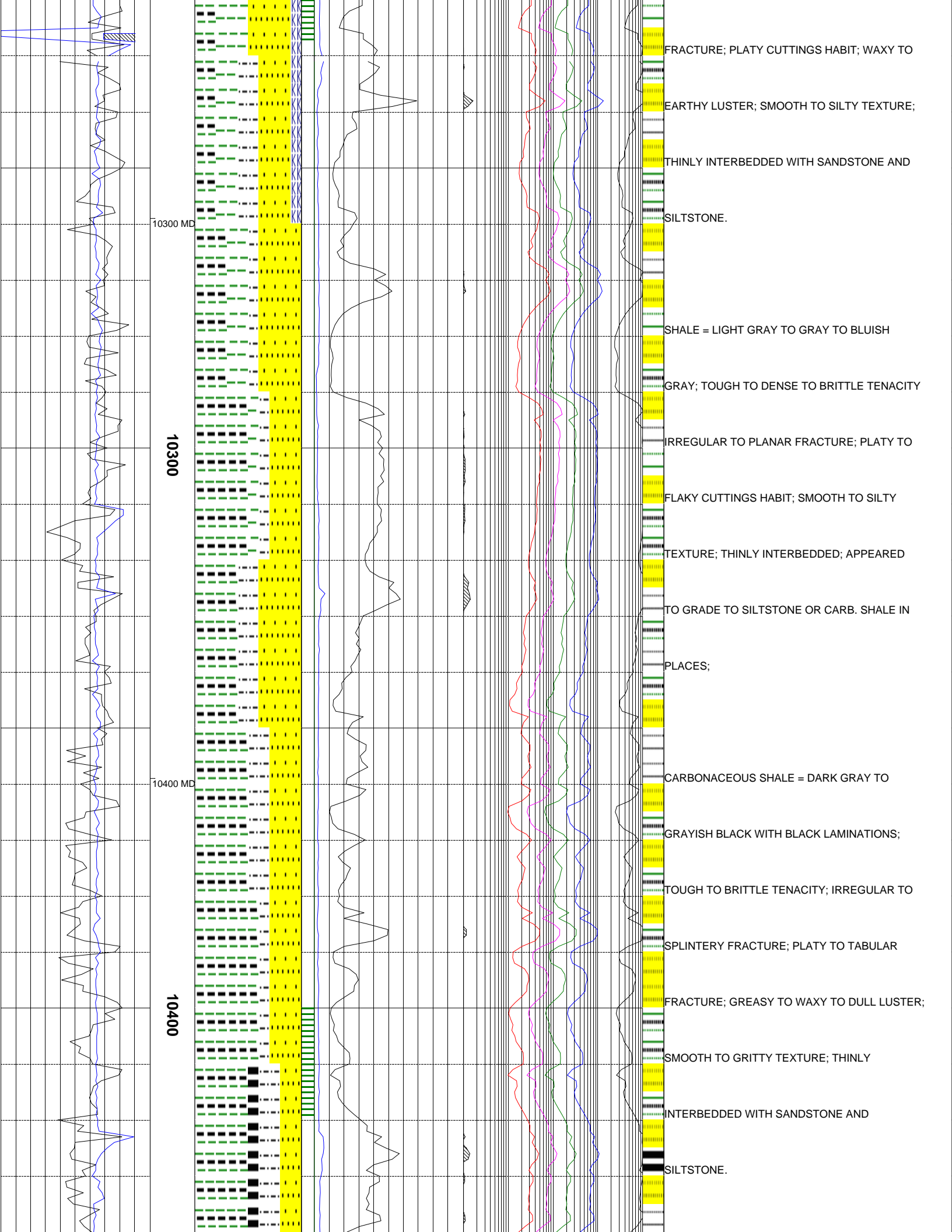


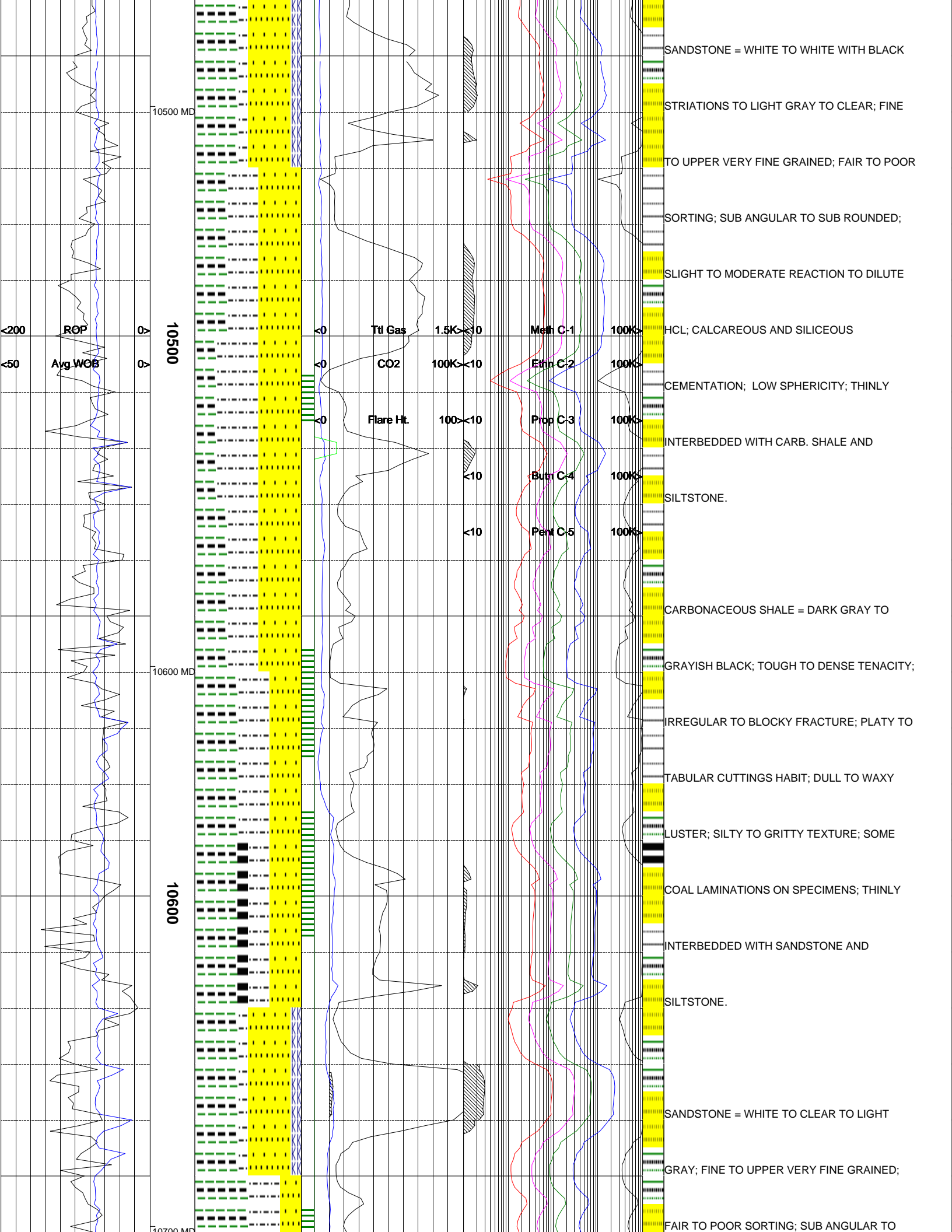


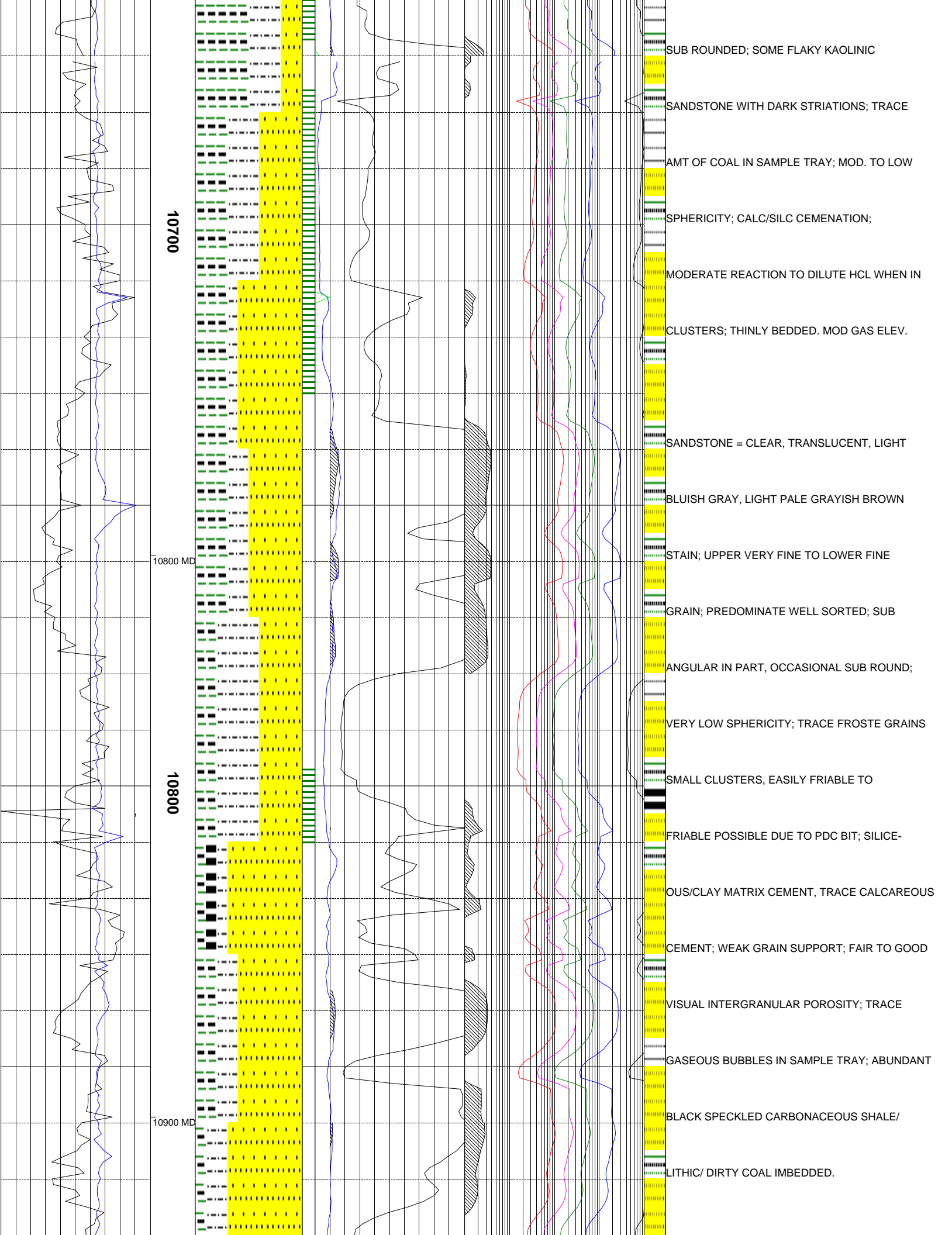


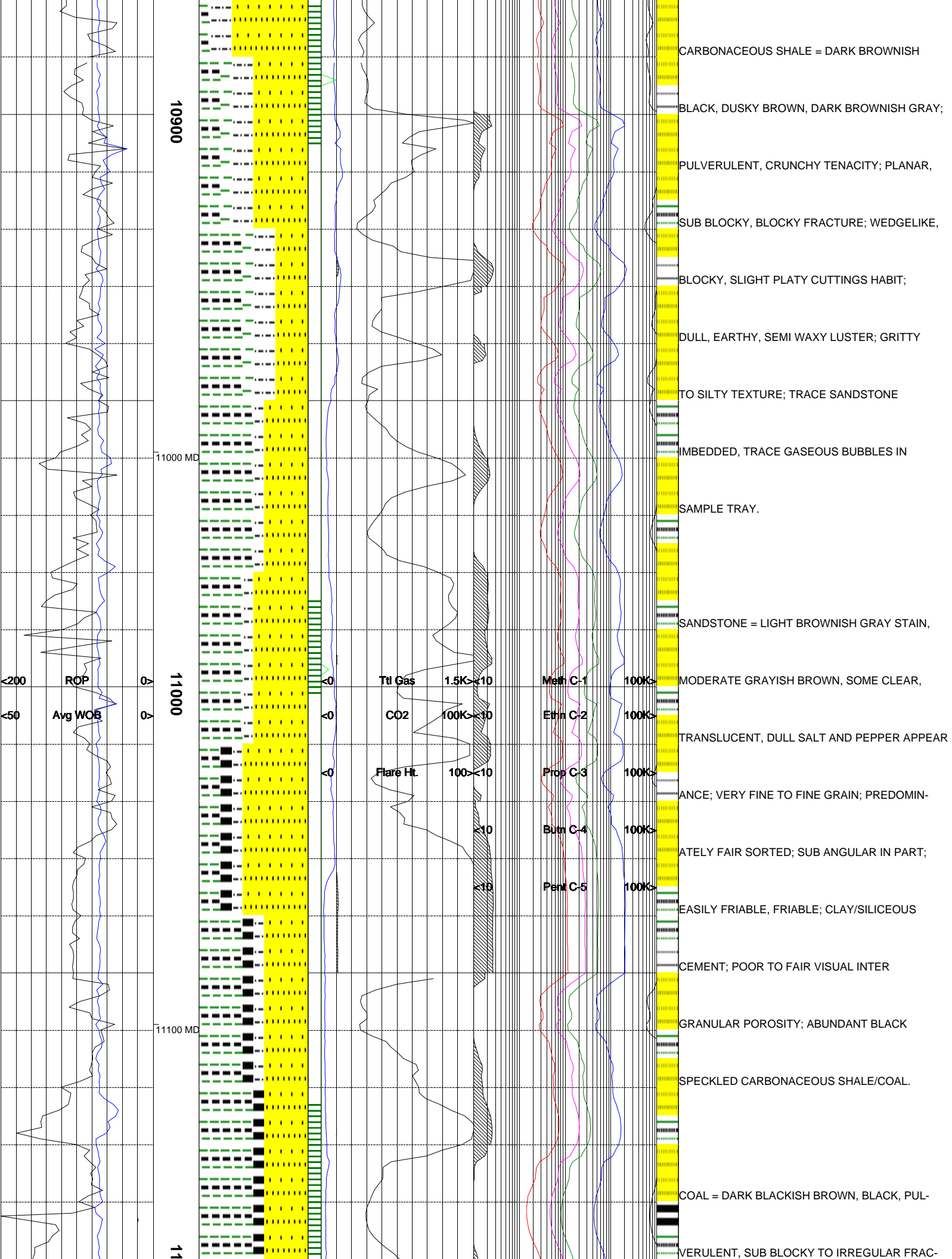


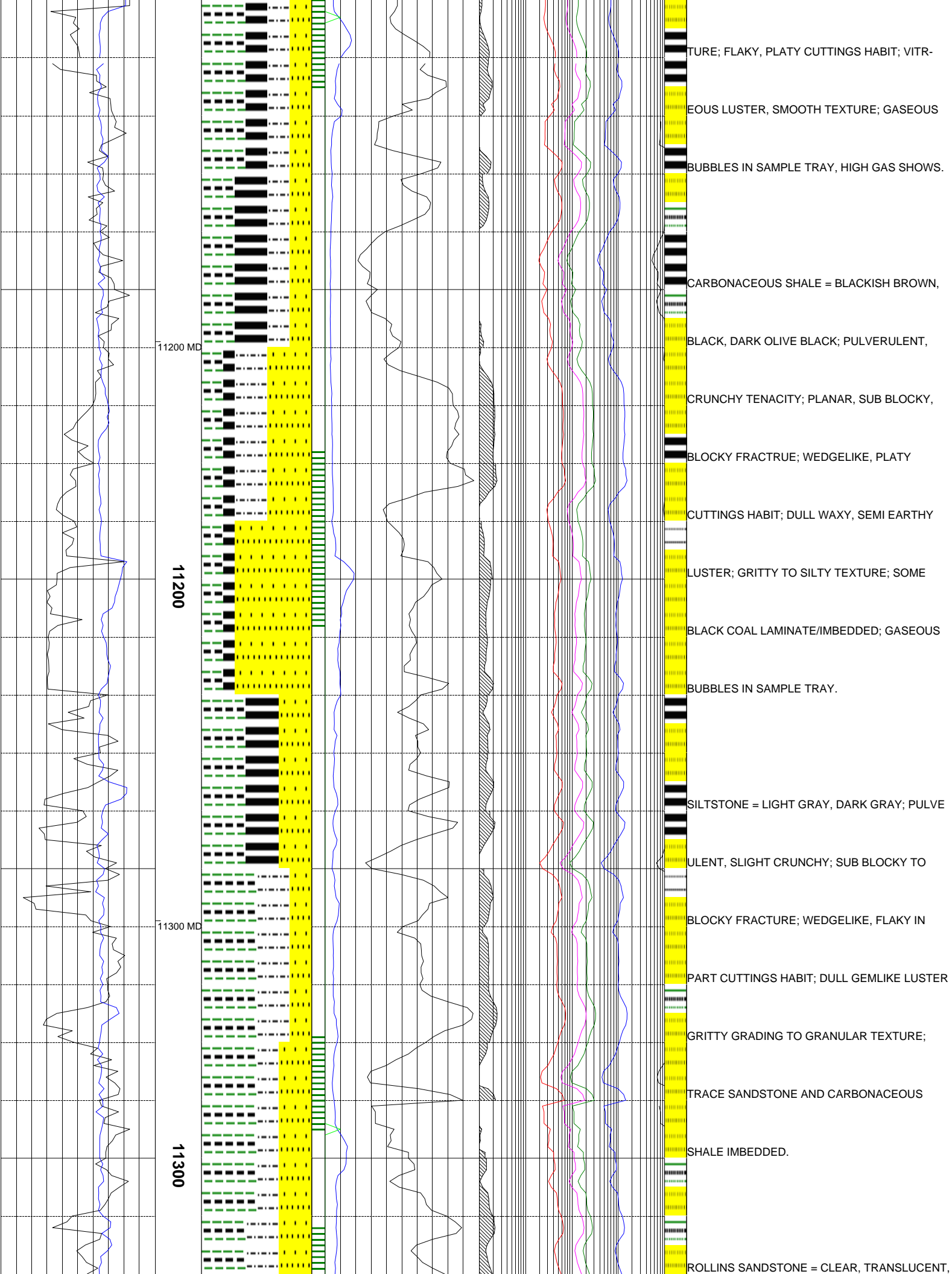


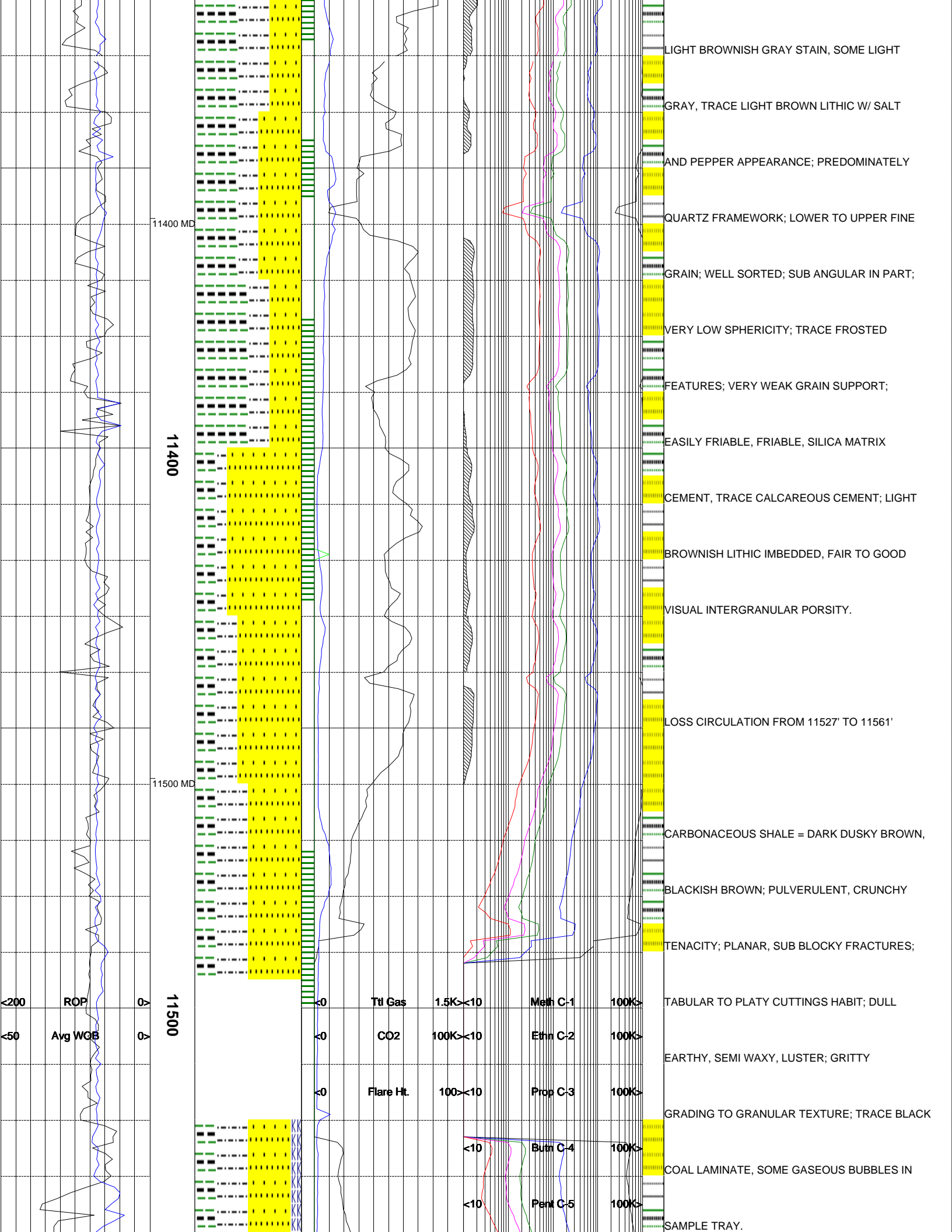












LIGHT BROWNISH GRAY STAIN, SOME LIGHT

GRAY, TRACE LIGHT BROWN LITHIC W/ SALT

AND PEPPER APPEARANCE; PREDOMINATELY

QUARTZ FRAMEWORK; LOWER TO UPPER FINE

GRAIN; WELL SORTED; SUB ANGULAR IN PART;

VERY LOW SPHERICITY; TRACE FROSTED

FEATURES; VERY WEAK GRAIN SUPPORT;

EASILY FRIABLE, FRIABLE, SILICA MATRIX

CEMENT, TRACE CALCAREOUS CEMENT; LIGHT

BROWNISH LITHIC IMBEDDED, FAIR TO GOOD

VISUAL INTERGRANULAR PORSITY.

LOSS CIRCULATION FROM 11527' TO 11561'

CARBONACEOUS SHALE = DARK DUSKY BROWN,

BLACKISH BROWN; PULVERULENT, CRUNCHY

TENACITY; PLANAR, SUB BLOCKY FRACTURES;

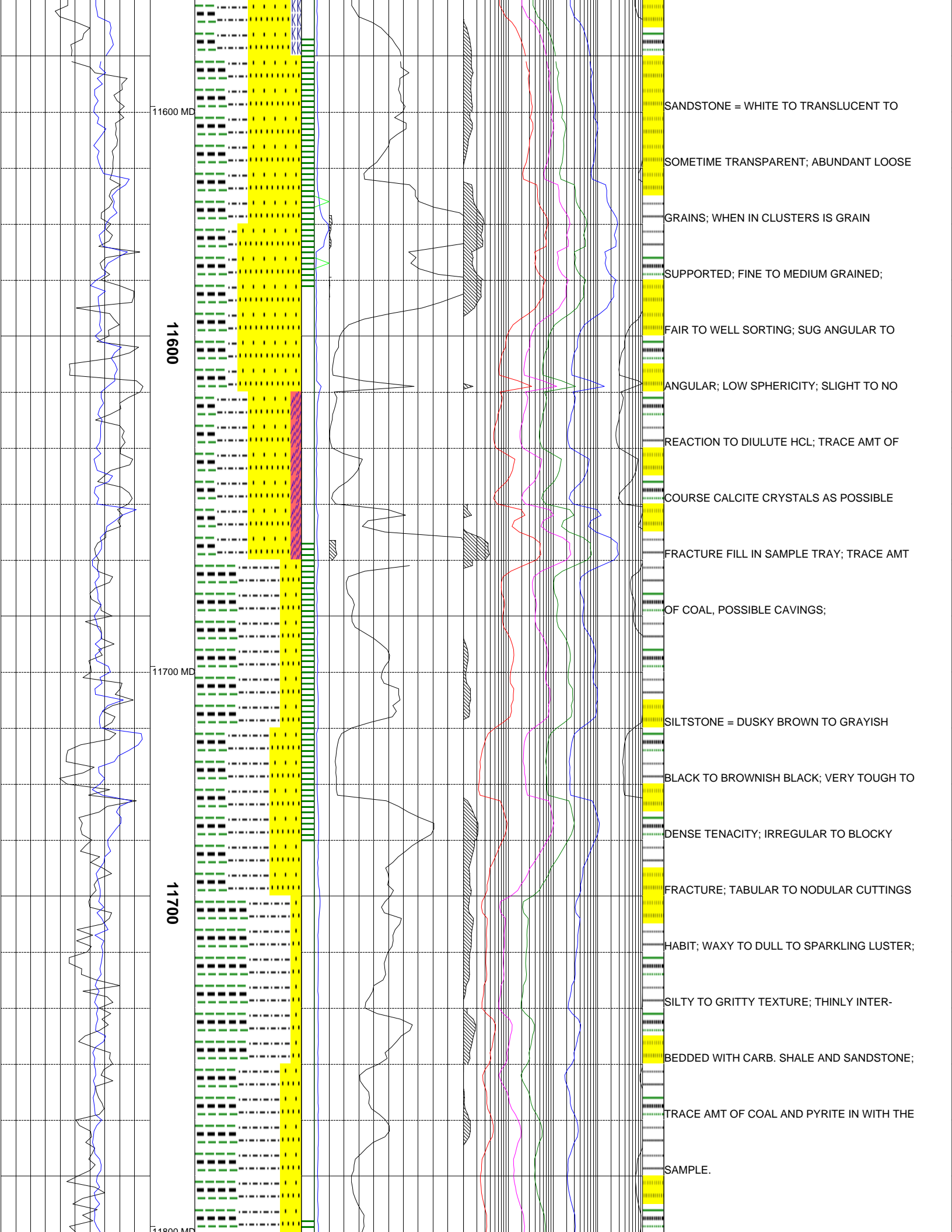
TABULAR TO PLATY CUTTINGS HABIT; DULL

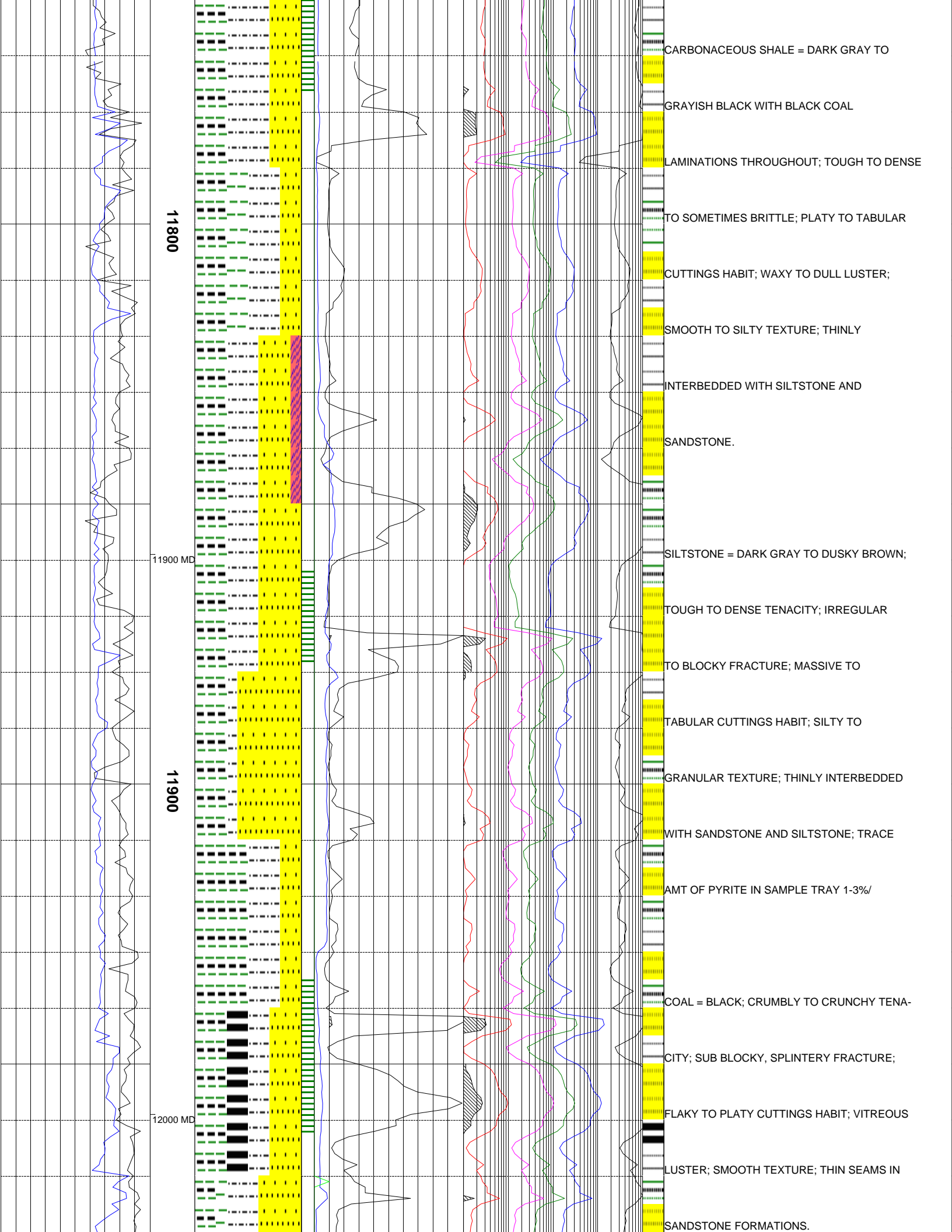
EARTHY, SEMI WAXY, LUSTER; GRITTY

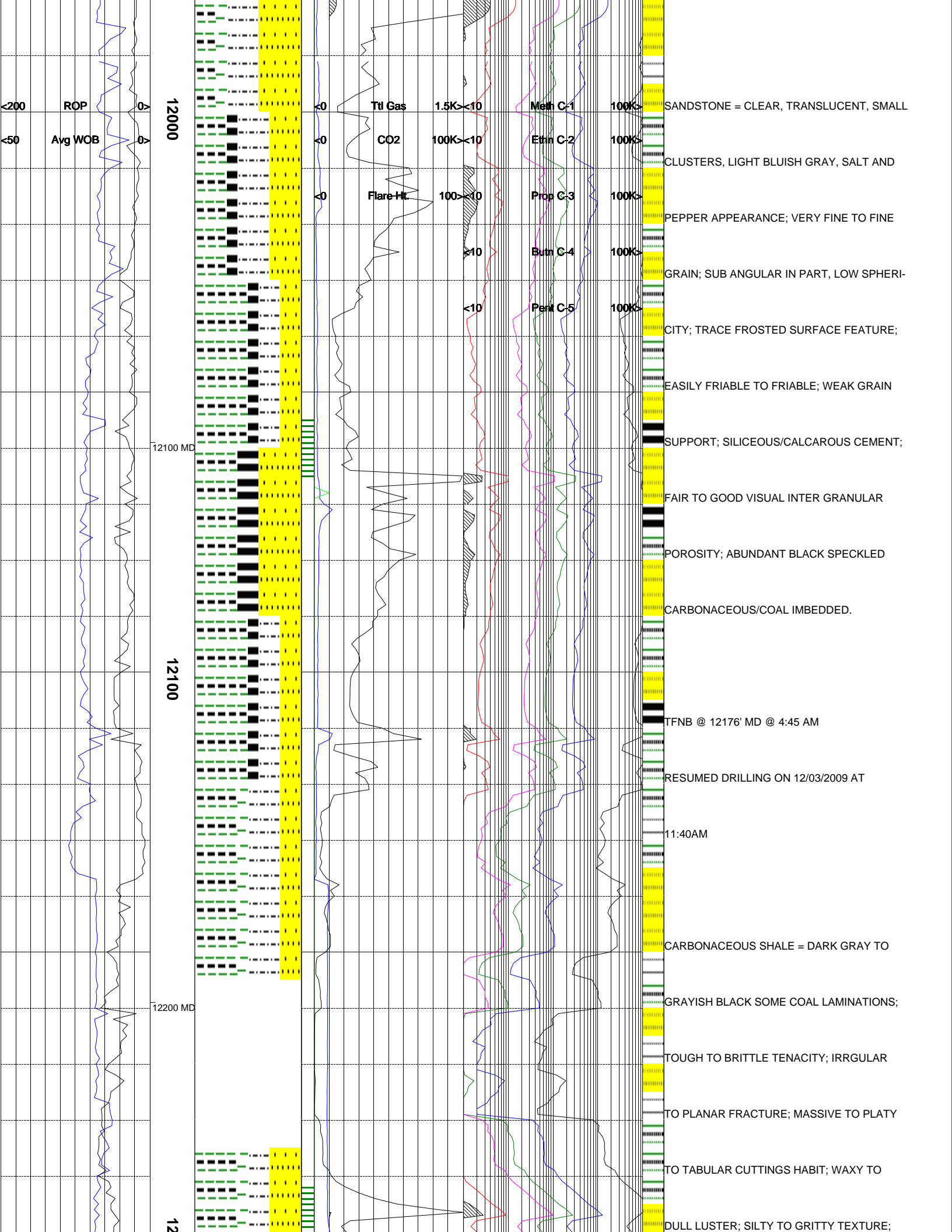
GRADING TO GRANULAR TEXTURE; TRACE BLACK

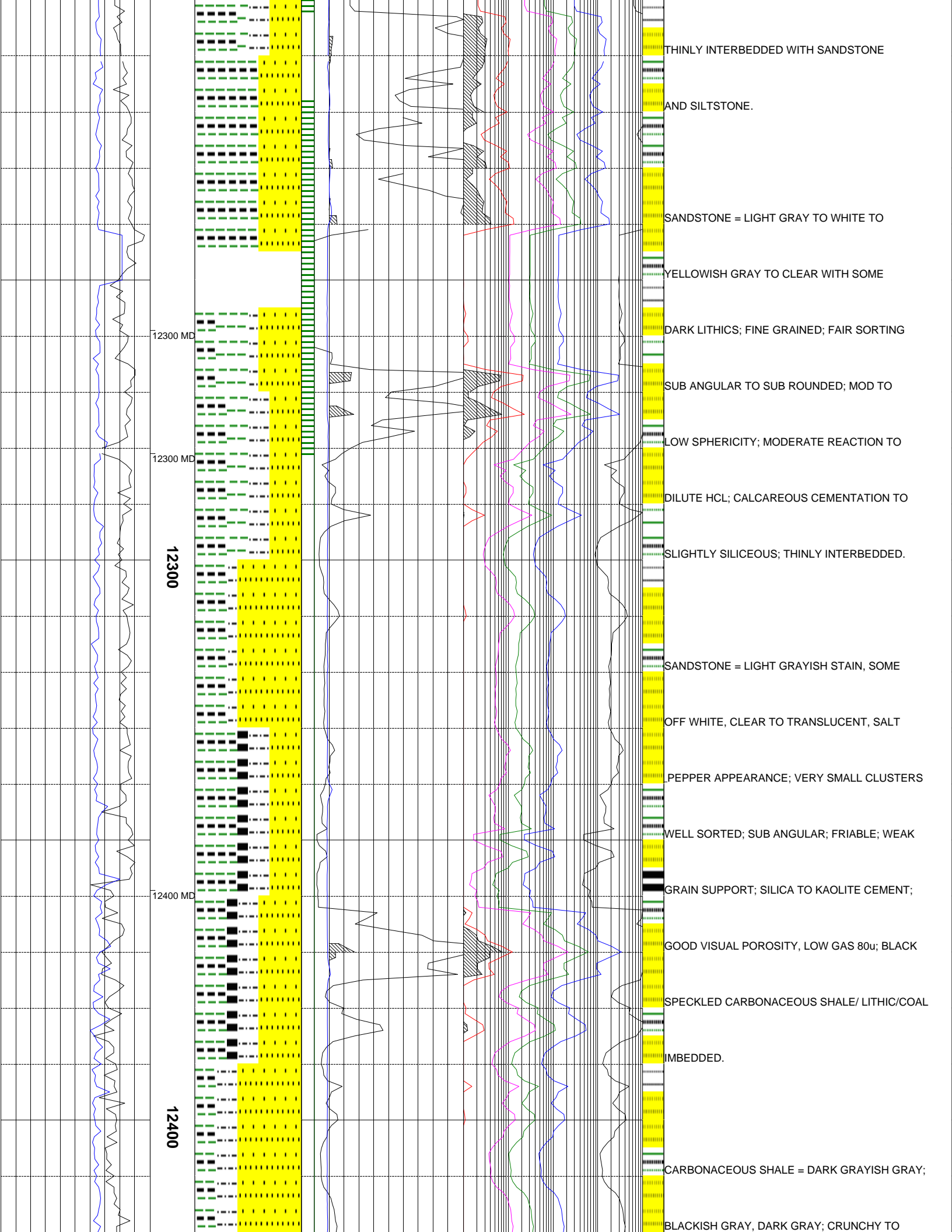
COAL LAMINATE, SOME GASEOUS BUBBLES IN

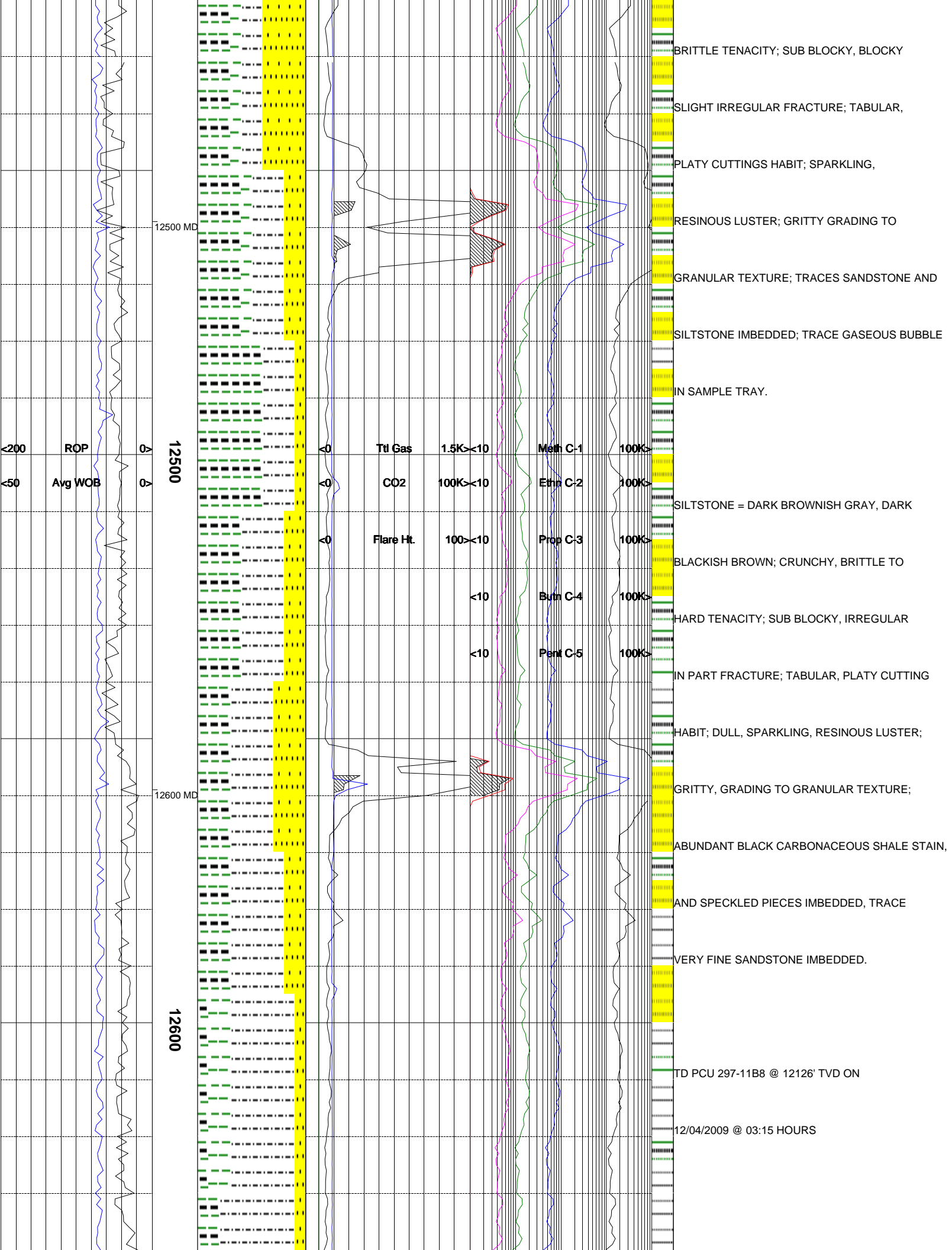
SAMPLE TRAY.

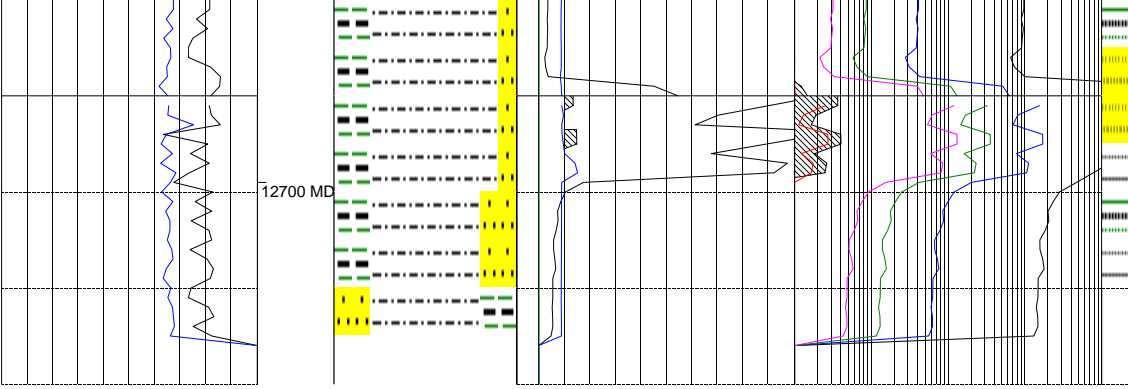












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