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MUDLOG TVD

COMPANY	EXXONMOBIL
WELL	PCU 296-5A07
FIELD	PICEANCE CREEK
REGION	ROCKIES
COORDINATES	LAT: 39.912003 LONG: -108.198668
ELEVATION	G.L.: 7294' R.K.B: 30.2'
COUNTY, STATE	RIO BLANCE, CO
API INDEX	051031124300
SPUD DATE	11/24/2010
CONTRACTOR	HELMERICH_PAYNE
CO. REP.	M. HUDON
RIG/TYPE	HP 321 / FLEX 4S
LOGGING UNIT	ML031
GEOLOGISTS	C. RECORD, B. SMELSER
ADD. PERSONS	M. GROSS
CO. GEOLOGIST	C. ALBA

LOG INTERVAL

DEPTHS: 4681' **TO** 13785'

DATES: 02/17/2011 **TO** 04/02/2011

SCALE: 5" = 100'

CASING DATA

10.75" **AT** 4652'

7.0" **AT** 9878'

4.5" **AT**

AT

MUD TYPES

SPUD MUD **TO** 4681'

LSND **TO** 13785'

TO

TO

HOLE SIZE

14.75" **TO** 4681'

9.875" **TO** 9894'

6.125" **TO** 13785'

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
	ANDESITE
	ANHYDRITE
	BASALT
	BENTONITE
	BIOTITIZATION
	BRECCIA
	CALCARENITE
	CALCAREOUS TUFF
	CALCILUTITE
	CARBONATES
	CARBONACEOUS MAT
	CARBONACEOUS SH
	CEMENT CONTAM.
	CHALK
	CRYSTALLINE TUFF
	CHERT - ARGILL

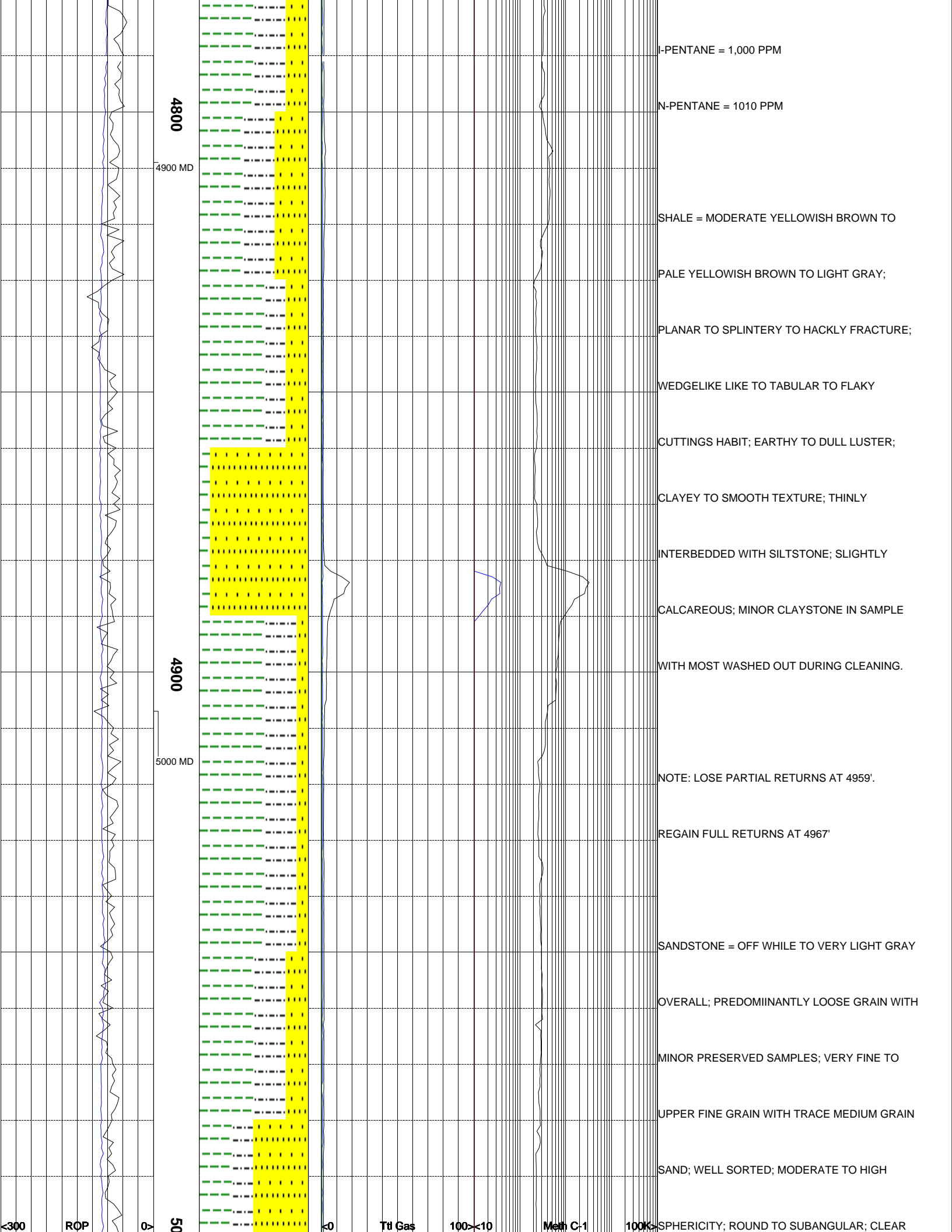
	CHERT - GLASSY
	CHERT - PORCEL
	CHERT - TIGER STRIPE
	CHERT - UNDIFF
	CLAY
	CLAY-MUDSTONE
	CLYST-TUFFACEOUS
	CHLORITIZATION
	COAL
	CONGLOMERATE
	CONGL. SAND
	CONGL. SANDSTONE
	COQUINA
	DACITE
	DIATOMITE
	DIORITE
	DOLOSTONE

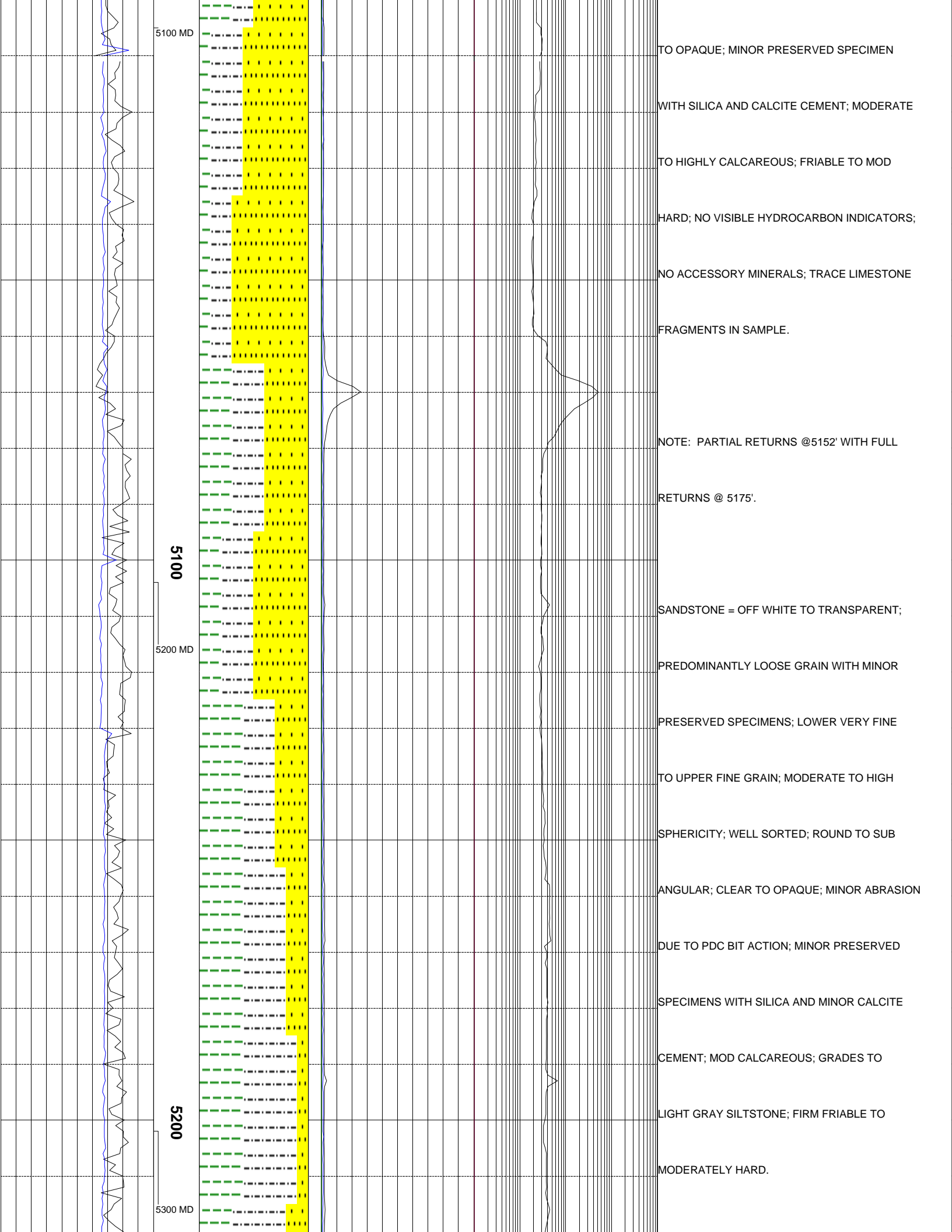
	FELSIC SILIC DIKE
	FOSSIL
	GABBRO
	GLASSY TUFF
	GRANITE
	GRANITE WASH
	GRANODIORITE
	GYPSUM
	HALITE
	HORNBL-Qtz-DIO
	IGNEOUS (ACIDIC)
	IGNEOUS (BASIC)
	INTRUSIVES
	KAOLINITIC
	LIMESTONE
	LITHIC TUFF
	MARL - DOLO

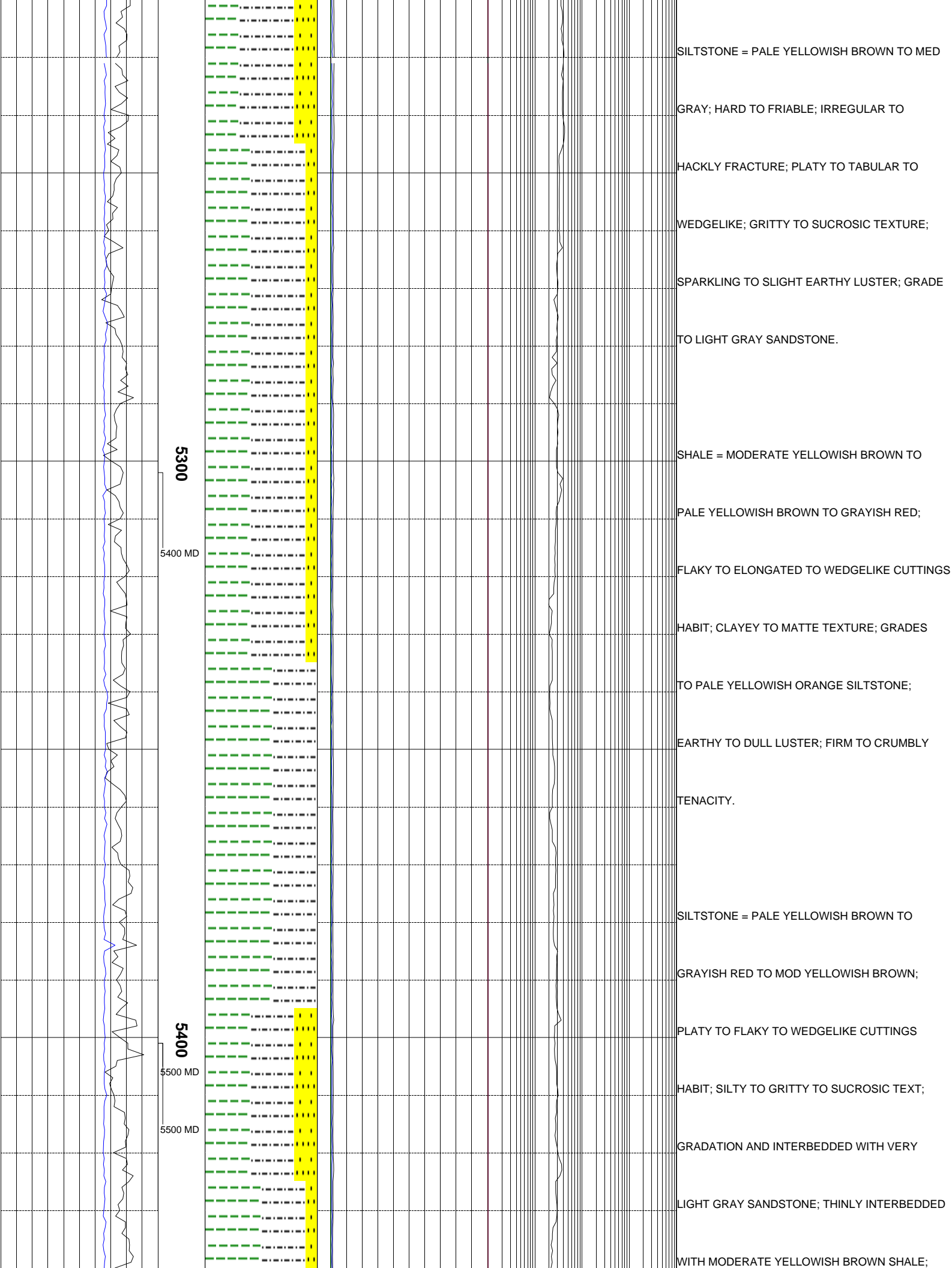
	MARL - CALC
	METAMORPHICS
	MUDSTONE
	OBSIDIAN
	PALEOSOL
	PHOSPHATE
	PORCELANITE
	PORCELANEOUS CLYST
	PYRITE
	PYROCLASTICS
	QUARTZ DIORITE
	QUARTZ LATITE
	QUARTZ MONZONITE
	RECRYSTALLIZED CALCITE
	RHYOLITE
	SALT
	SAND

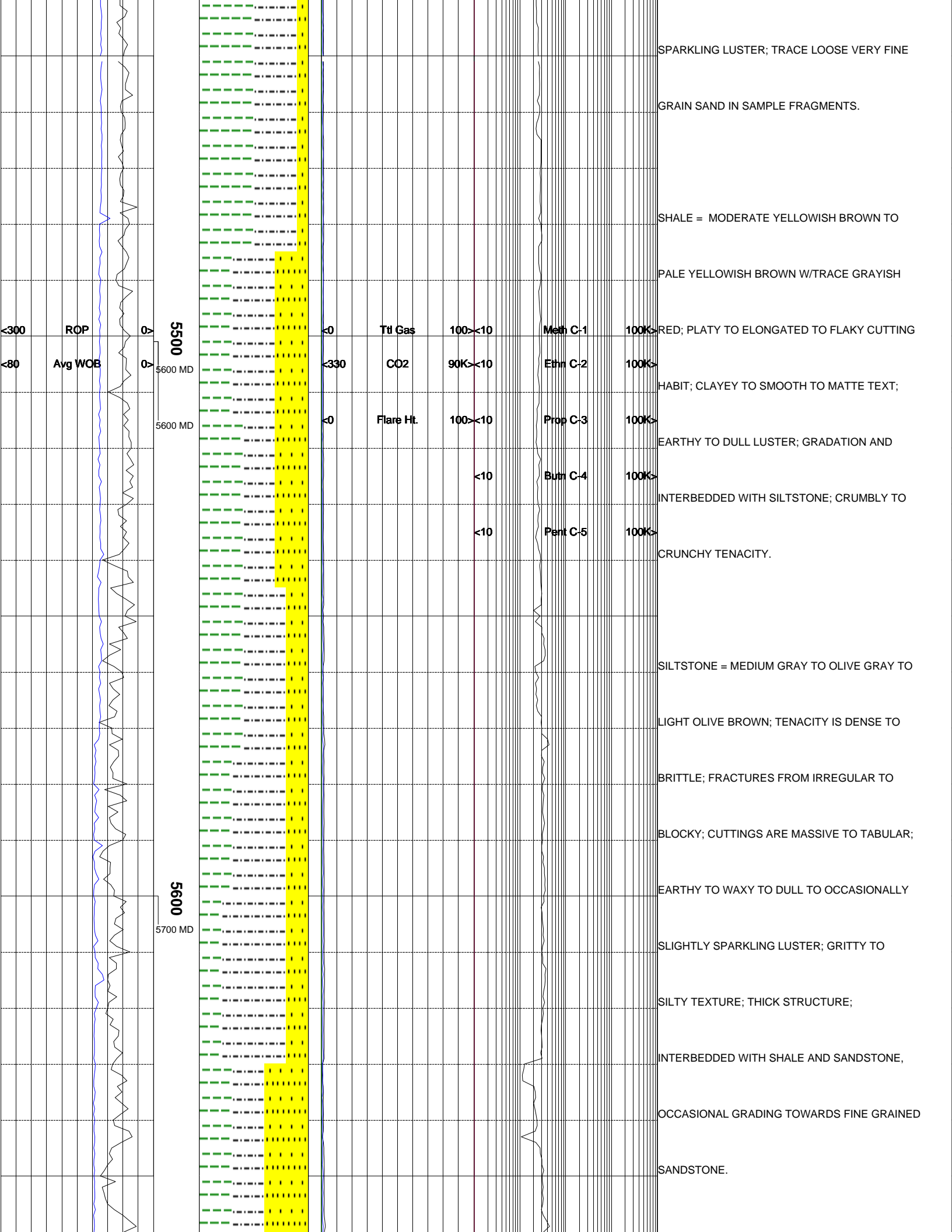
	SANDSTONE
	SANDSTONE-TUFFACEOUS
	SERICITIZATION
	SERPENTINE
	SHALE
	SHALE TUFFACEOUS
	SHELL FRAGMENTS
	SIDERITE
	SILICIFICATION
	SILTSTONE
	SILTST-TUFFACEOUS
	TUFF
	VOLCANICLASTICS SEDS
	VOLCANICS

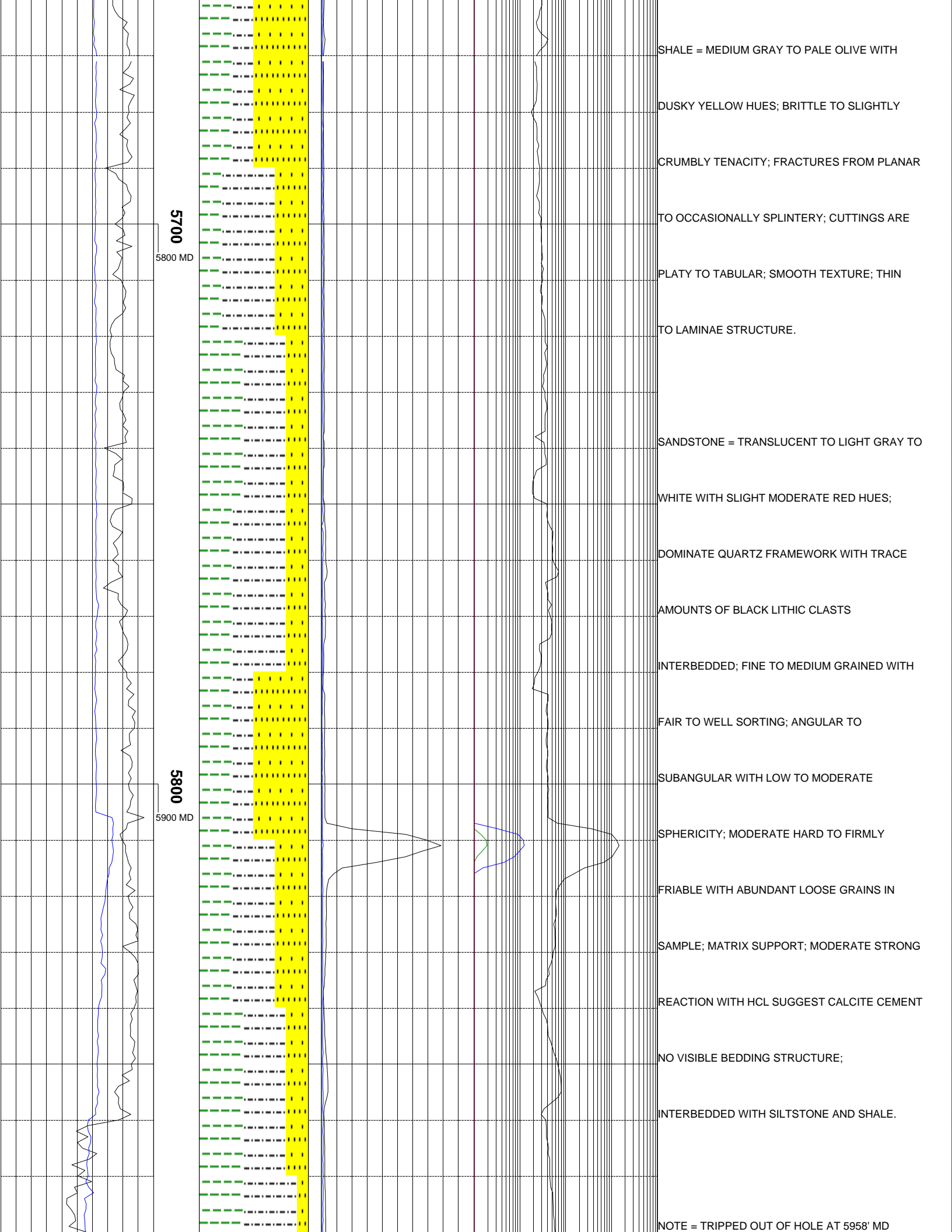
EXXONMOBIL			PCU 296-5A07			8/31/2011		
<div><100ROP0></div> <div>ft/hr</div> <div><80Avg WOB0></div> <div>klbs</div>		TVD Depth	Lithology	<div>MGS</div> <div><0Ttl Gas1.5K></div> <div>units</div> <div><330CO290K></div> <div>ppm</div> <div><0Flare Ht.100></div> <div>ft</div>		<div><10Meth C-1100K></div> <div>ppm</div> <div><10Ethn C-2100K></div> <div></div> <div><10Prop C-3100K></div> <div></div> <div><10Butn C-4100K></div> <div></div> <div><10Pent C-5100K></div> <div></div>		Remarks
						Survey Data, Mud Reports, Other Info.		
		4600				CANRIG DRILLING TECHNOLOGY DML COMMENCED		
		4700 MD				LOGGING THE PCU 296-5A07 WELL ON		
						02/17/2011 @ 4681' MD.		
						ROCK CHARACTERISTICS AND CONSTITUENTS		
						ARE LISTED FROM MOST ABUNDANT TO LEAST		
						ABUNDANT PERCENTAGE OF SAMPLE.		
						GAS CALIBRATED TO S.P.L.W.A.		
		4700				STANDARDS (2% ME = 100 UNITS).		
						GAS CHROMATOGRAPHY EQUIPMENT CALIBRATED		
		4800 MD				TO A TEST GAS COMPOSED OF THE FOLLOWING:		
						METHANE = 10,130 PPM		
						ETHANE = 1010 PPM		
						PROPANE = 1,000 PPM		
						I-BUTANE = 1,000 PPM		
						N-BUTANE = 1,000 PPM		

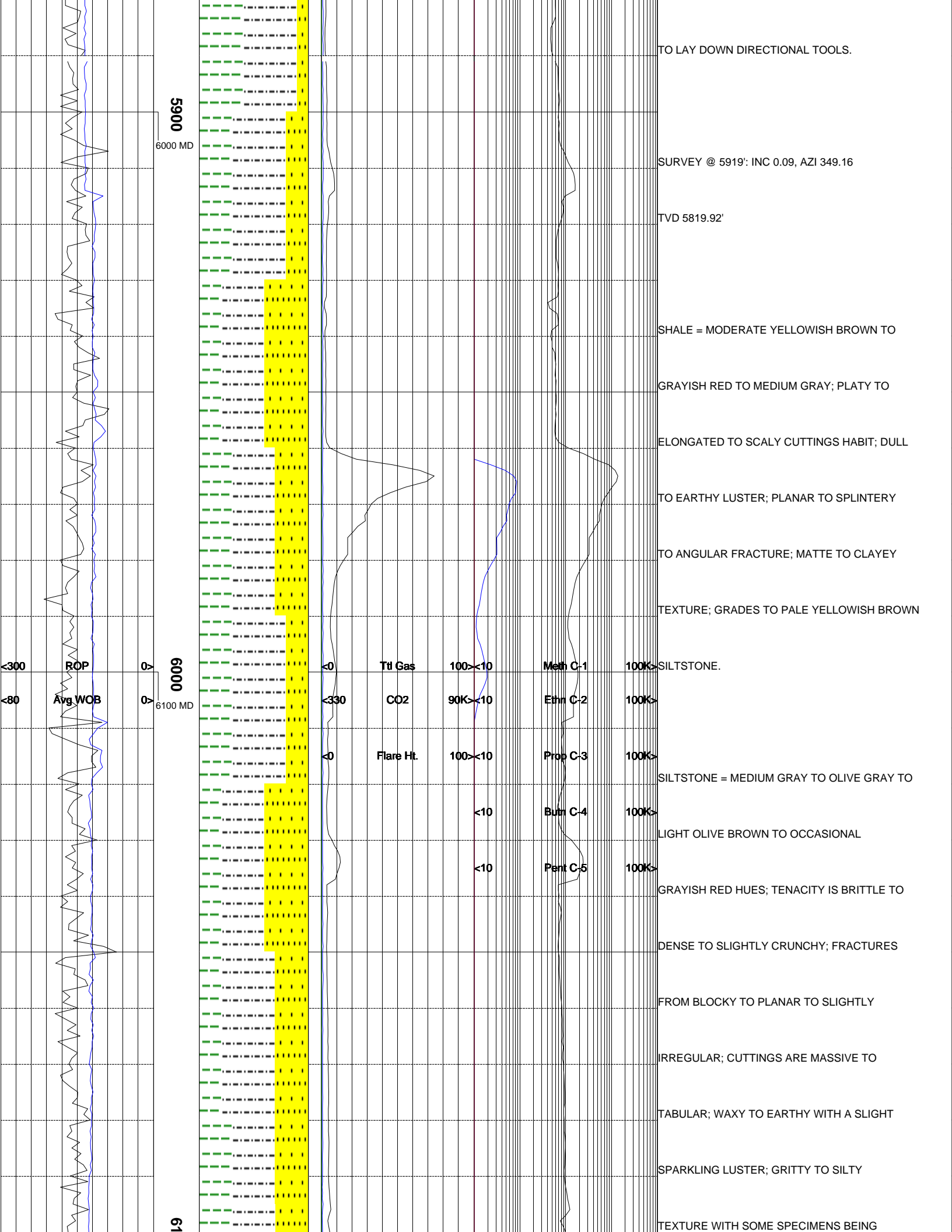


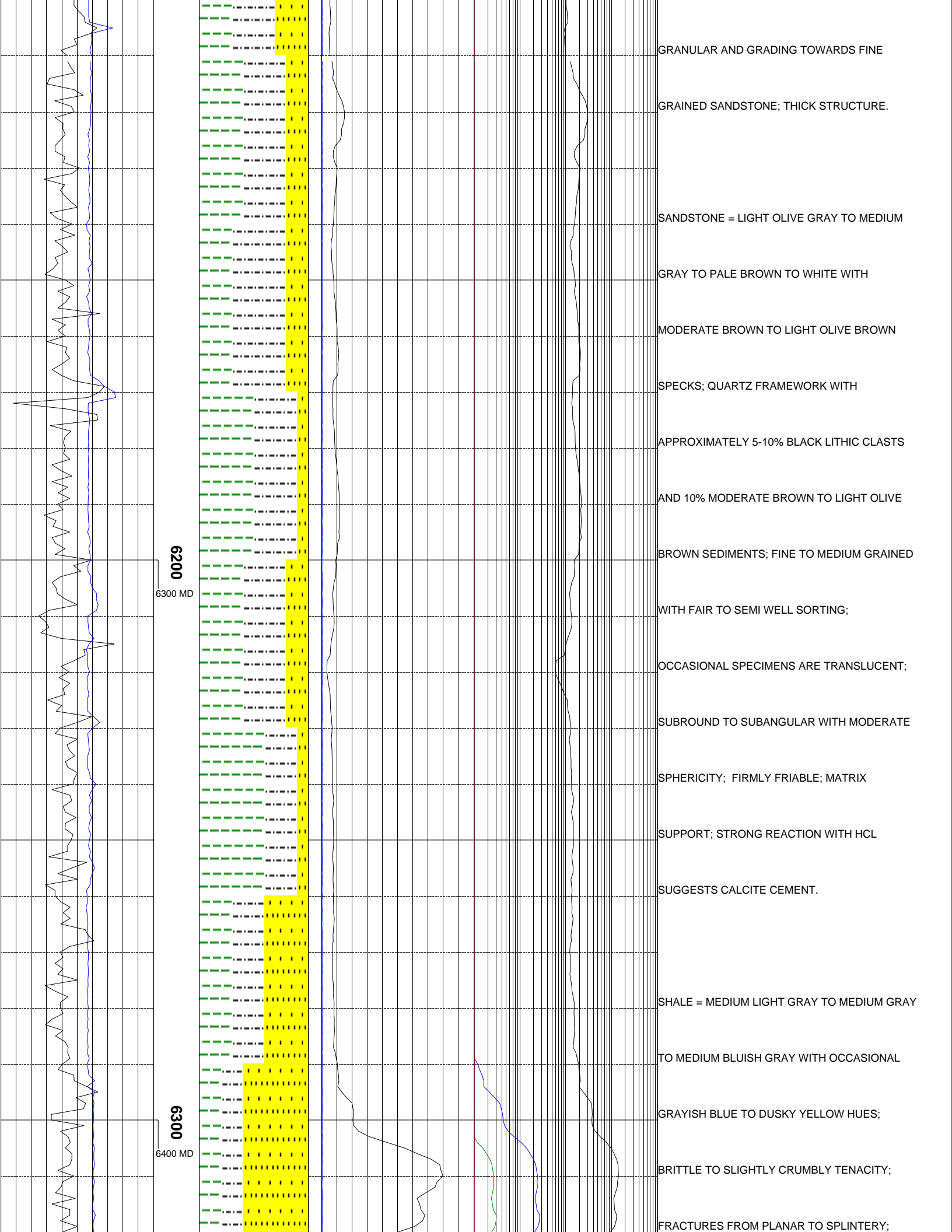


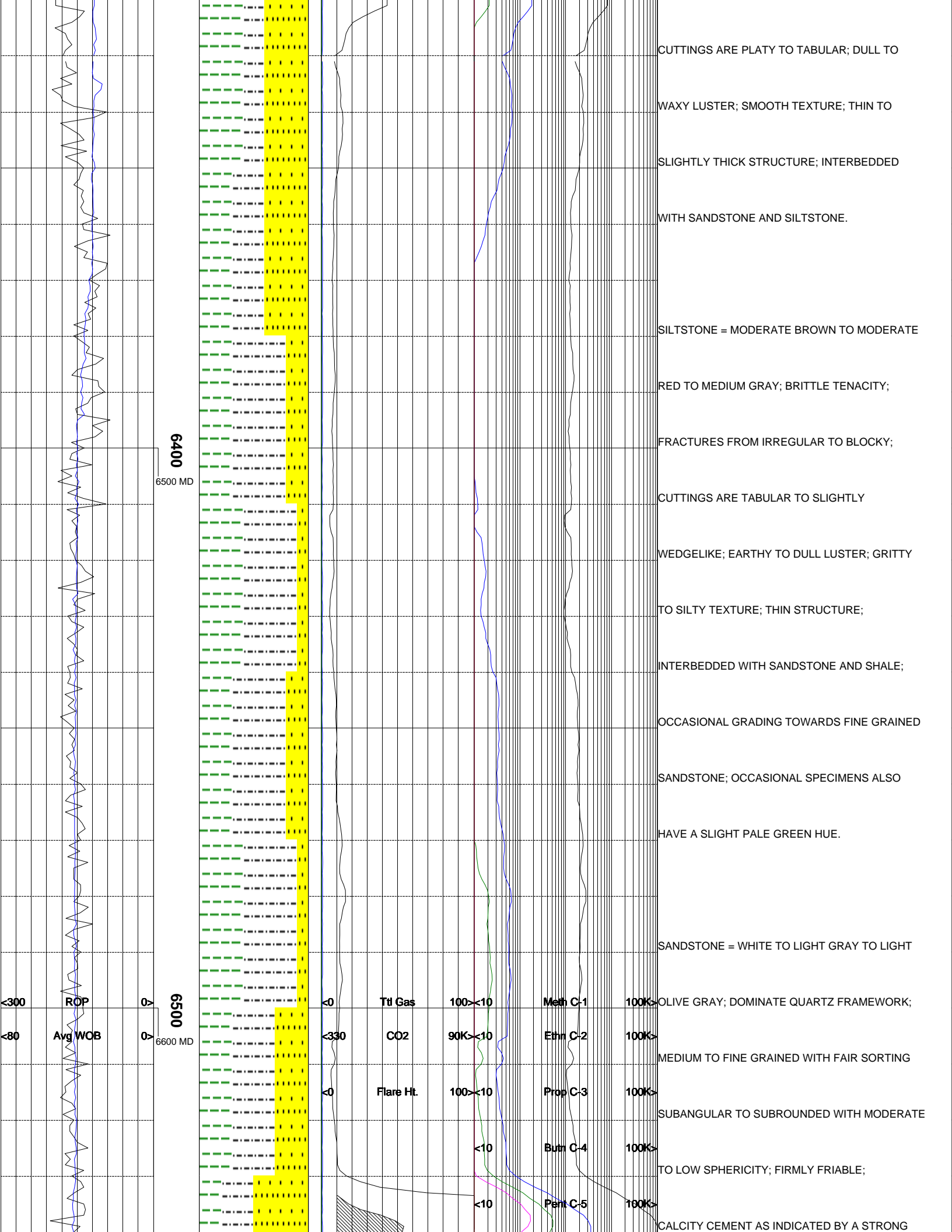


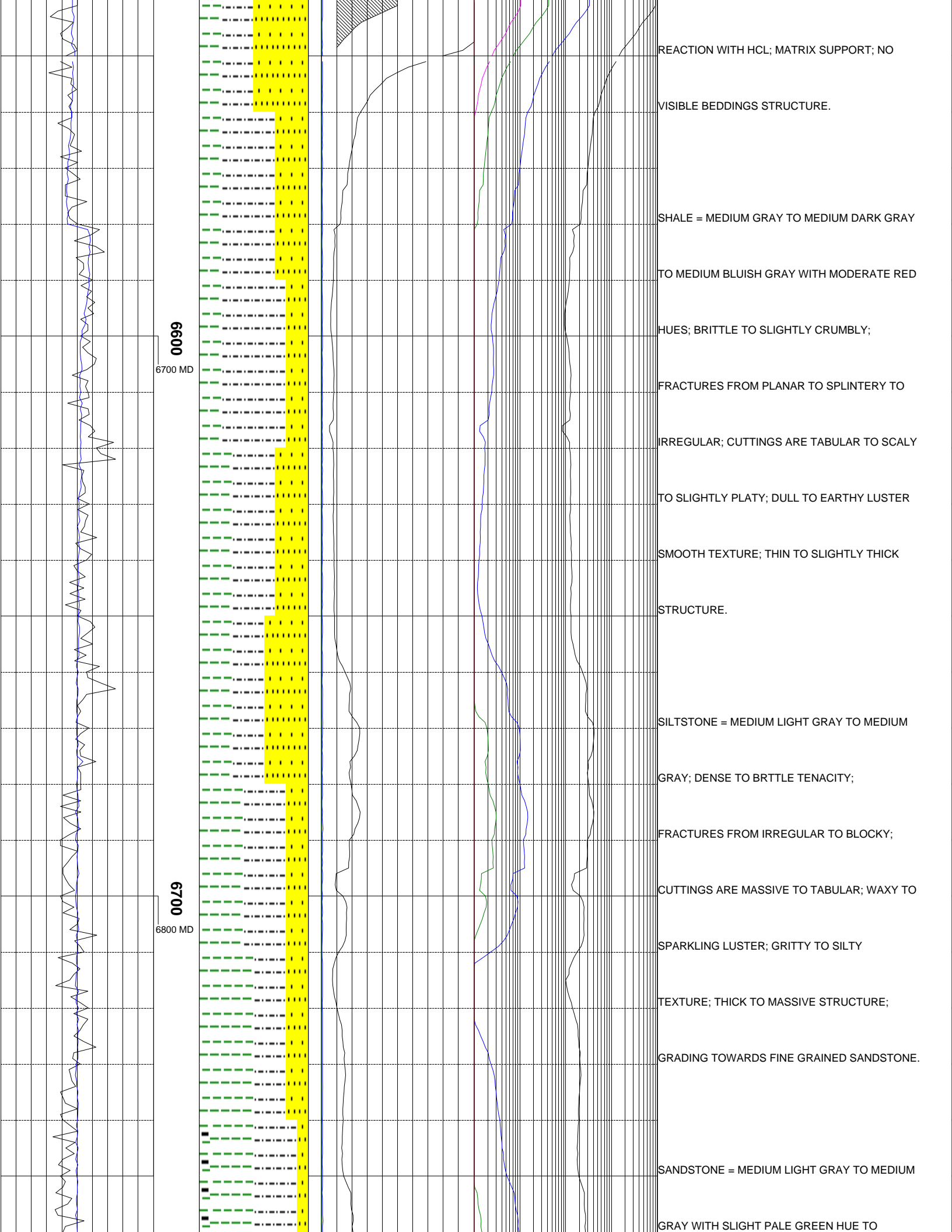


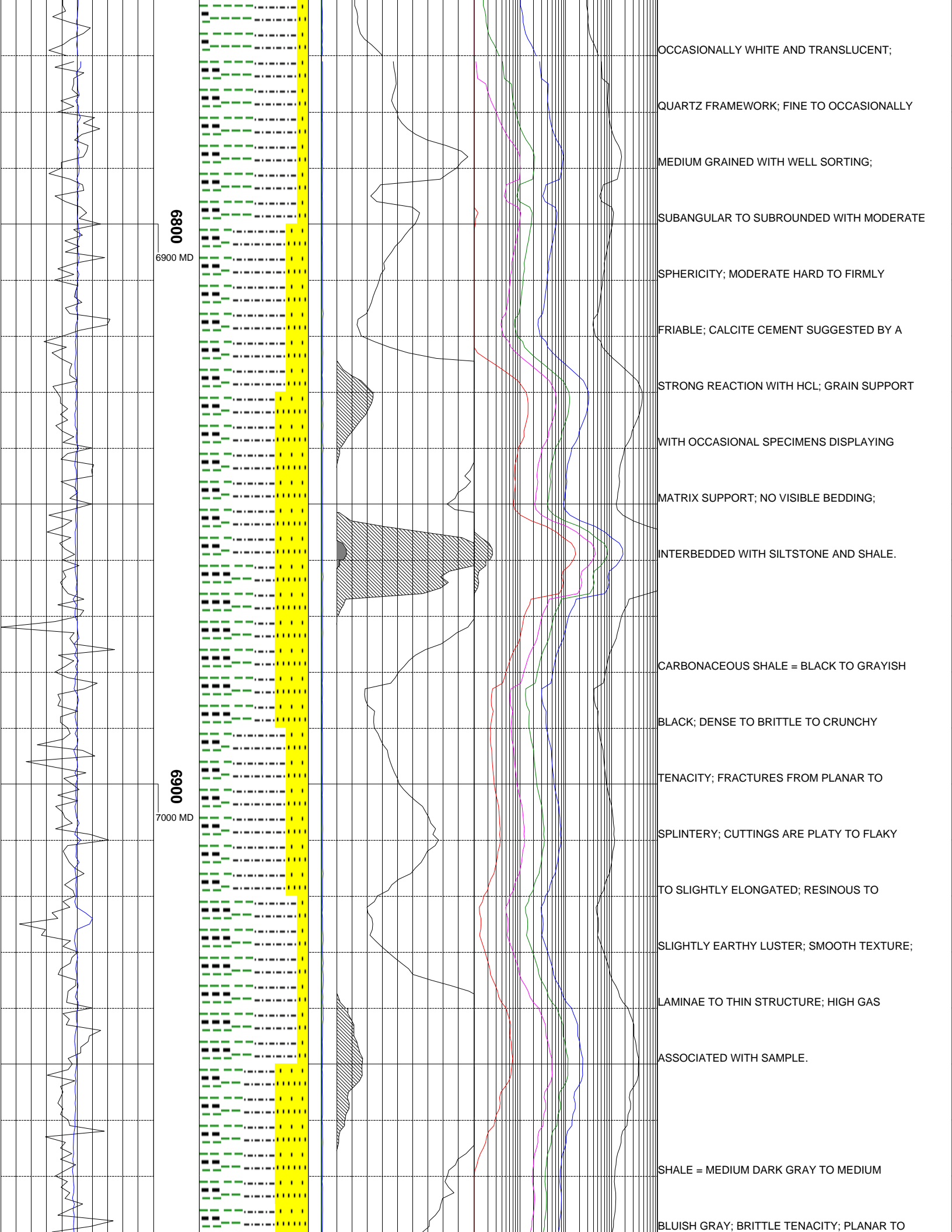


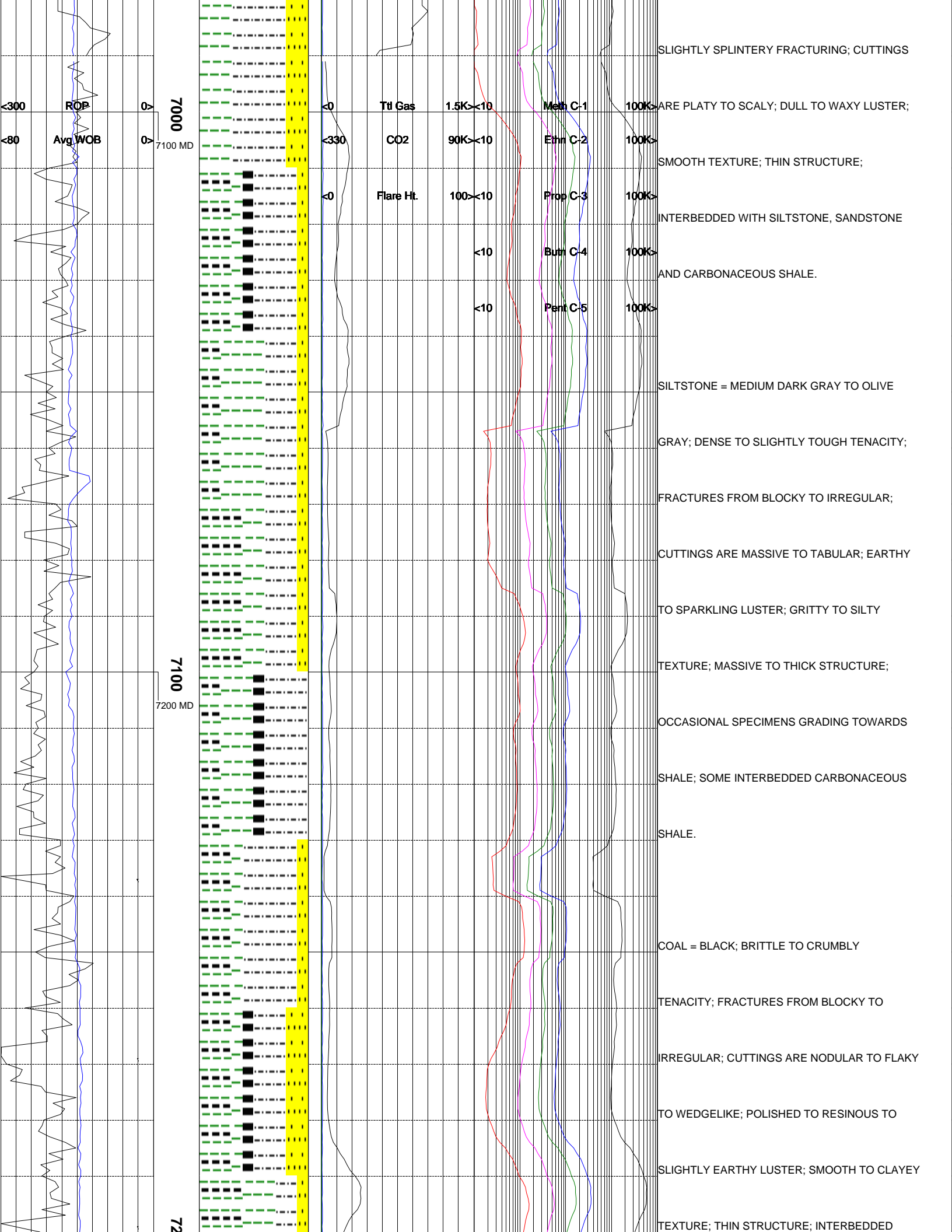


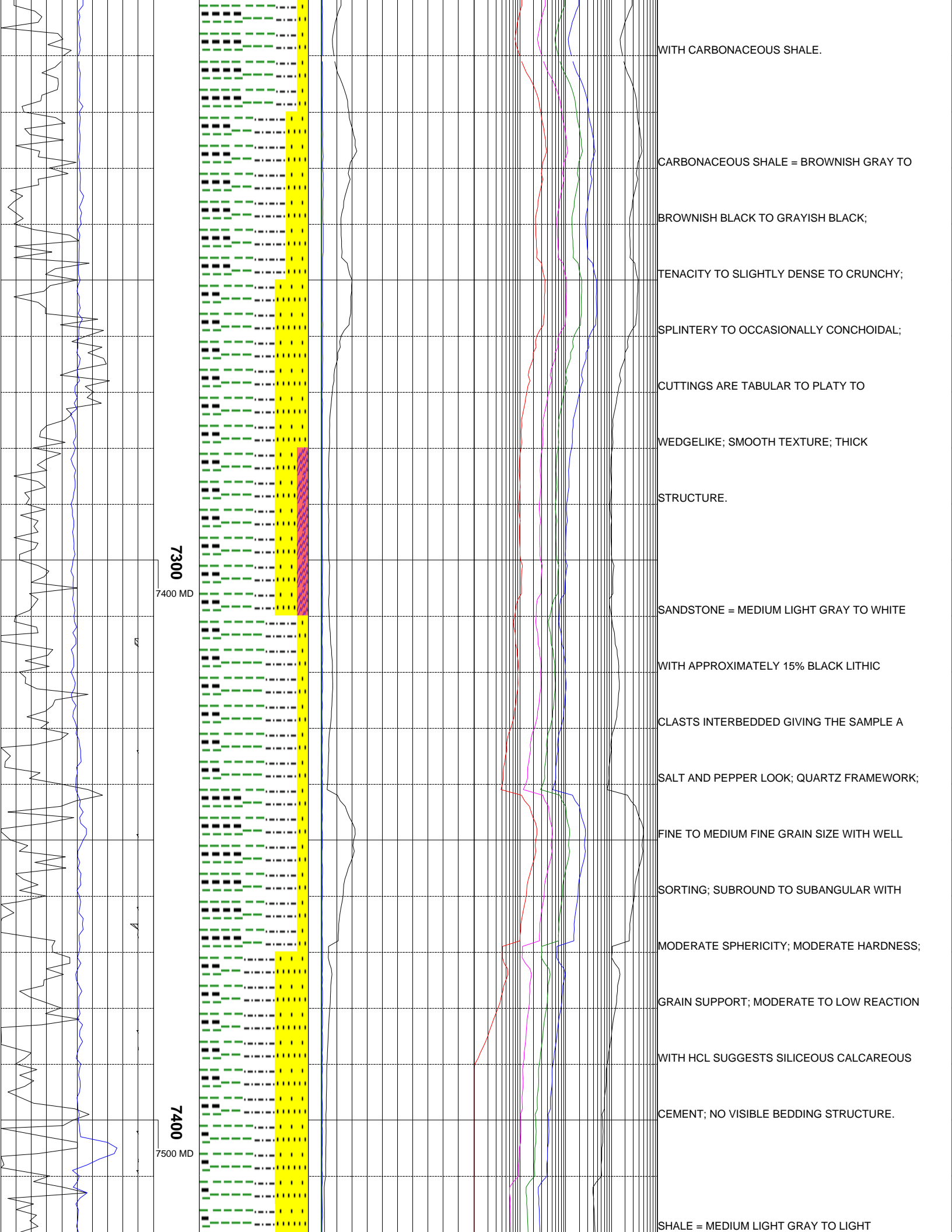


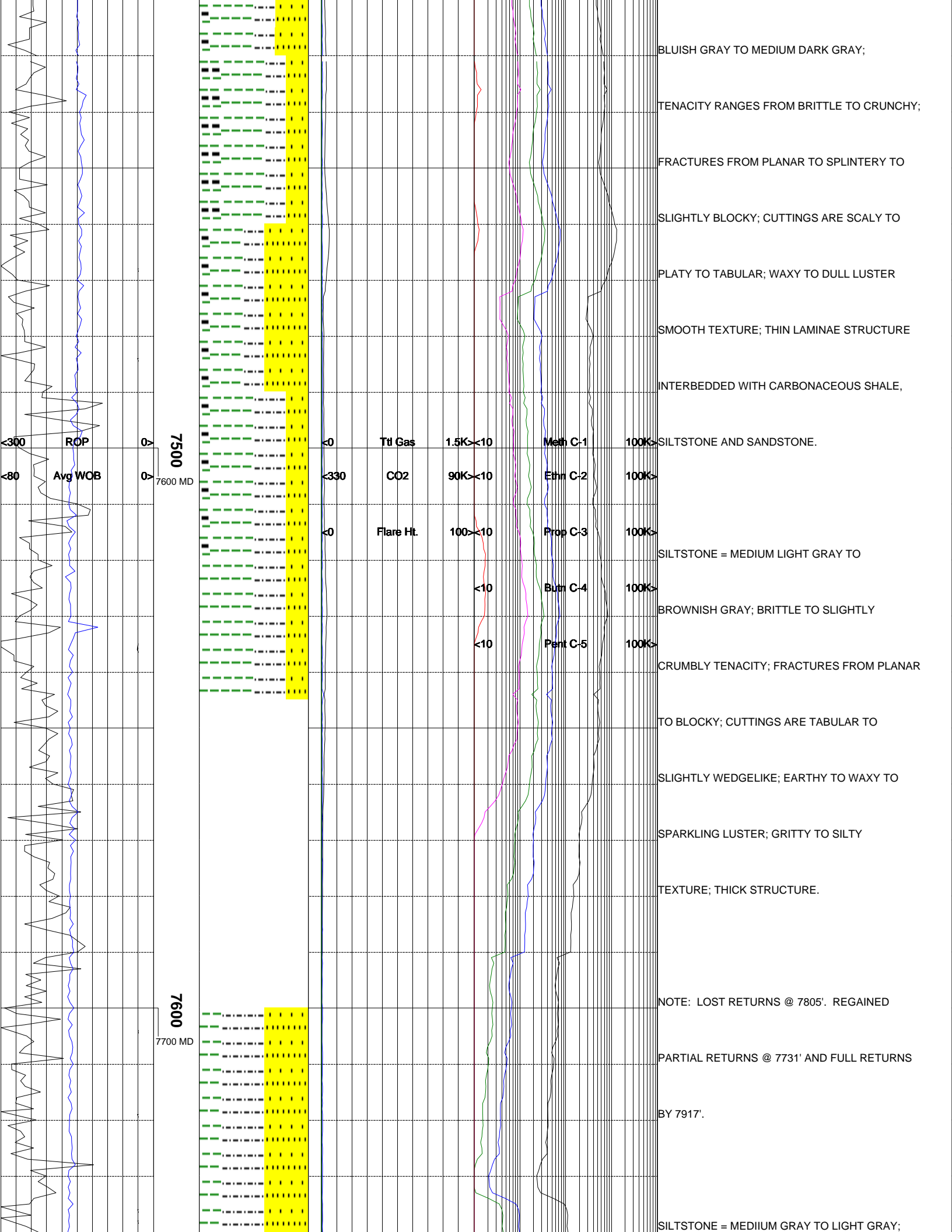


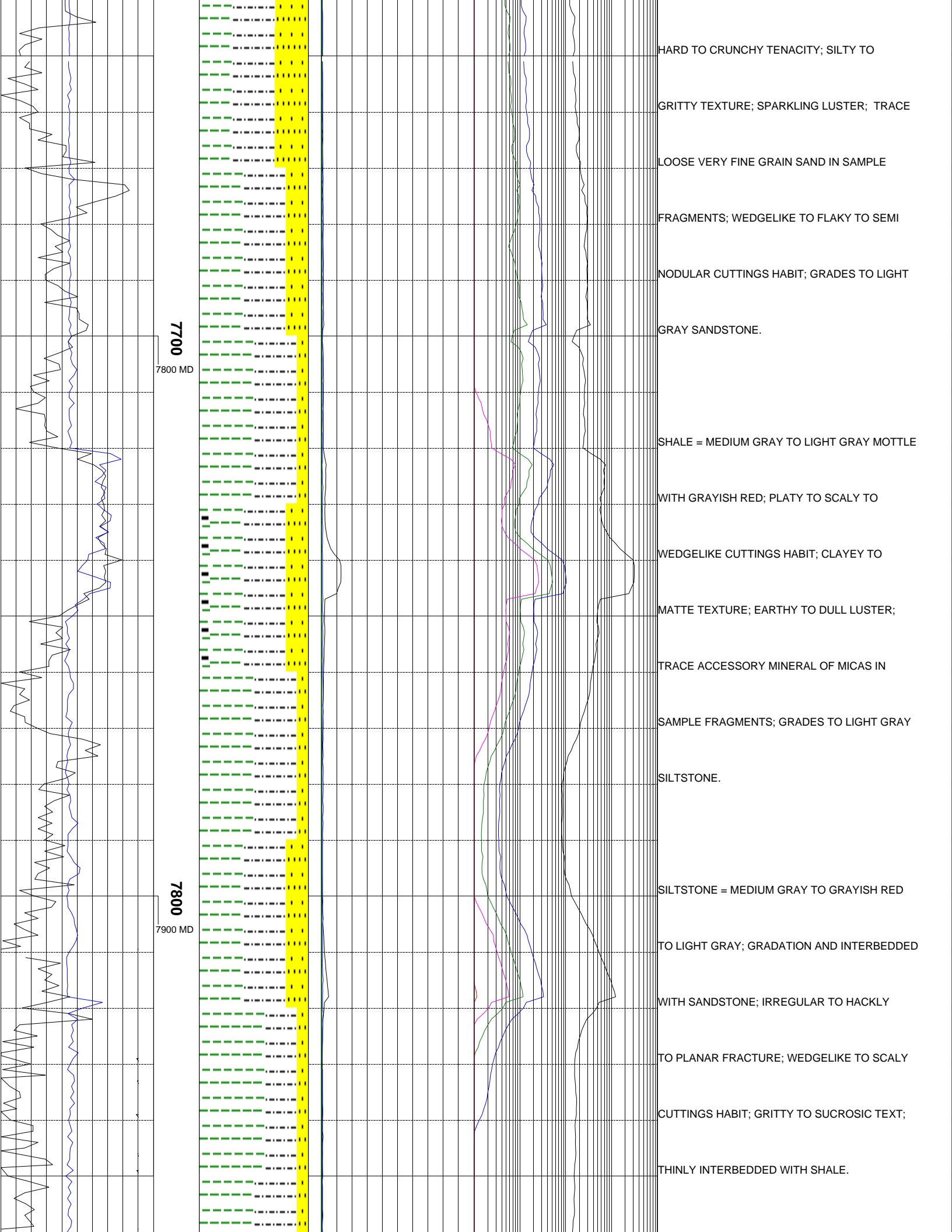


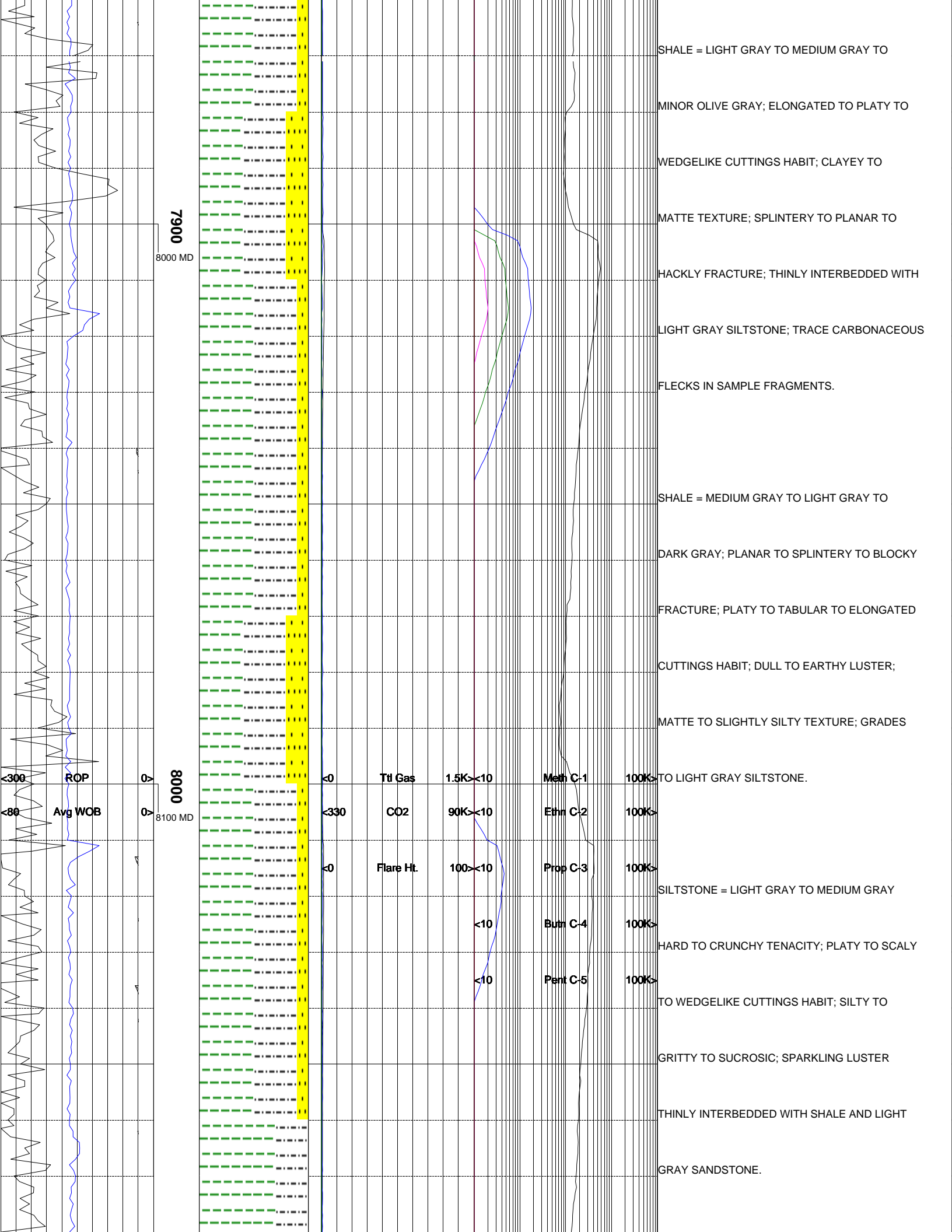


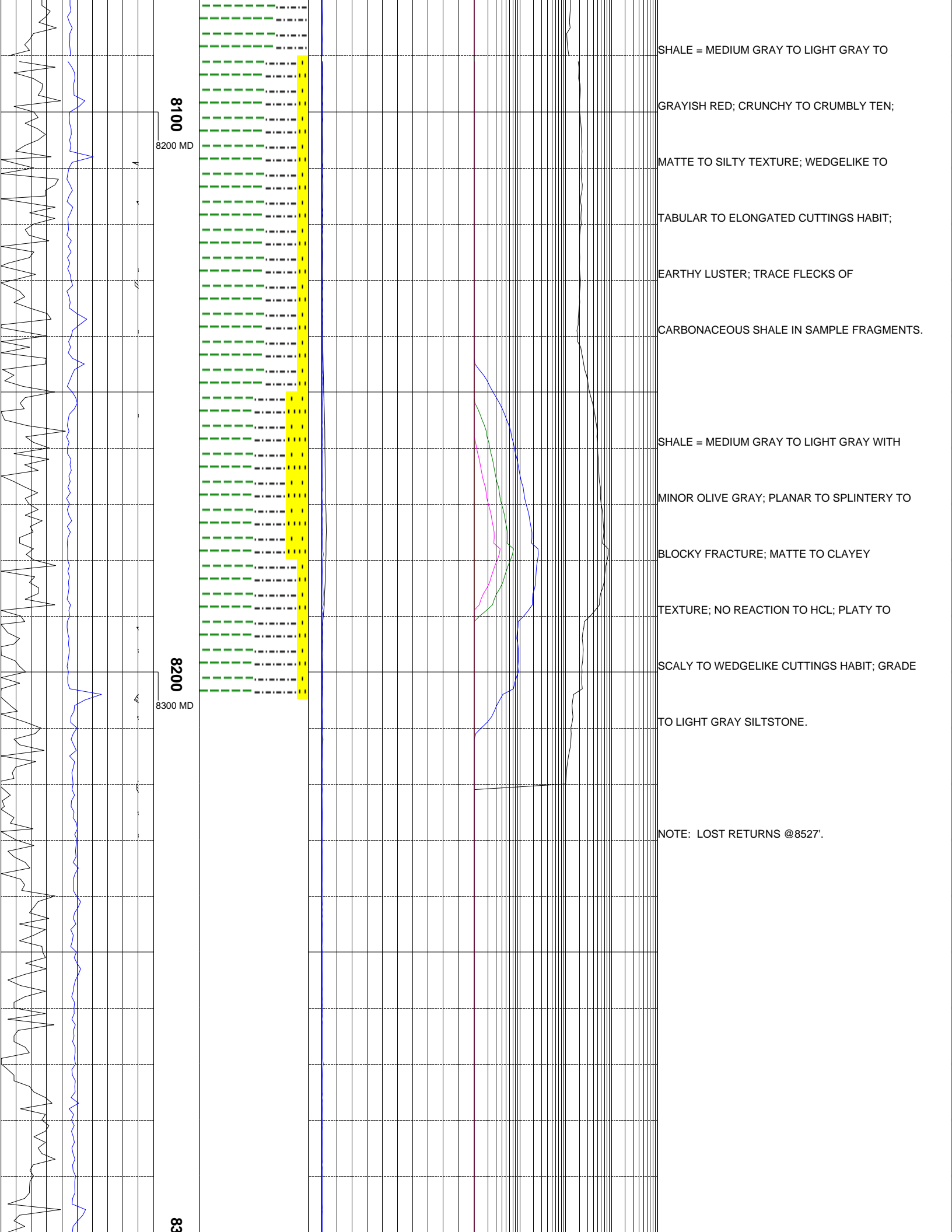


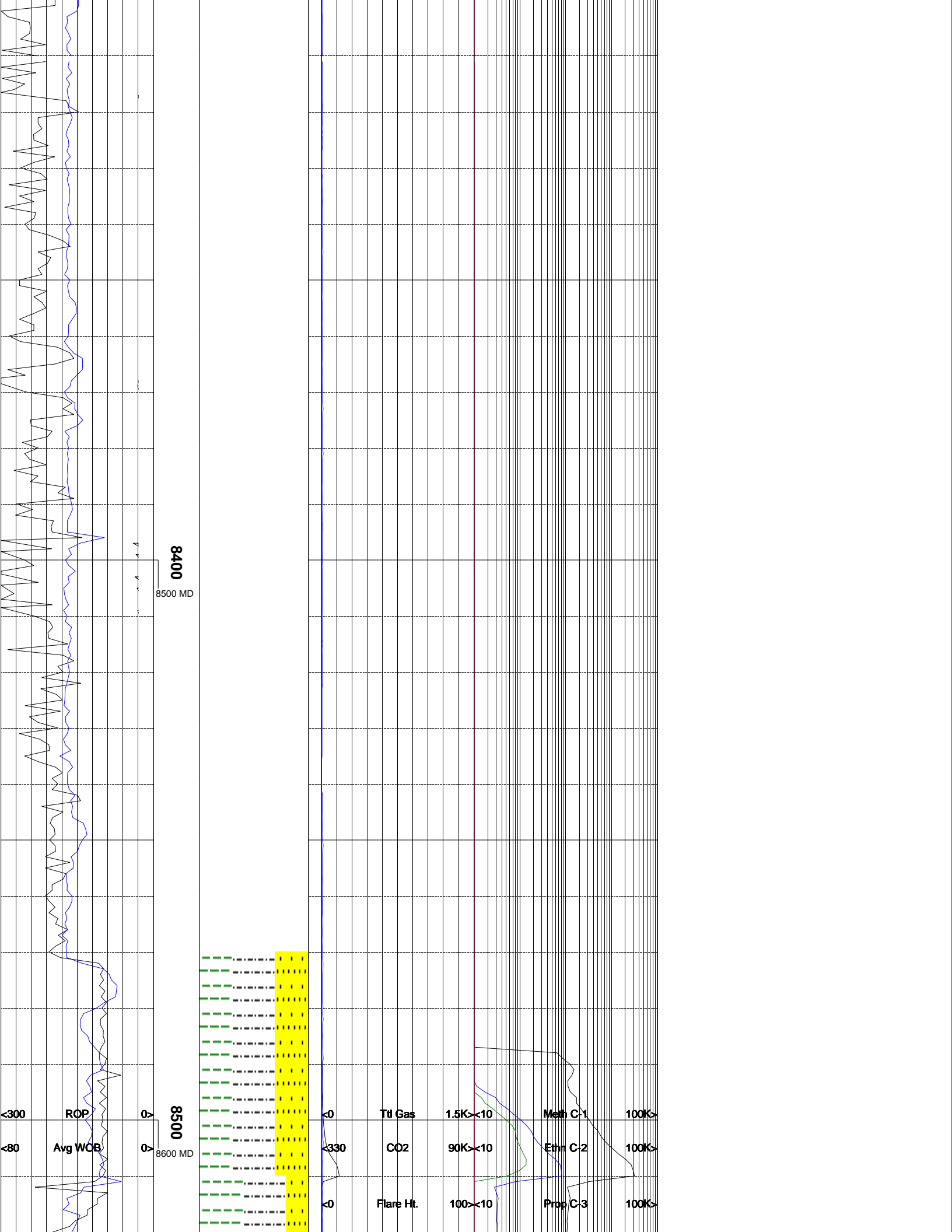


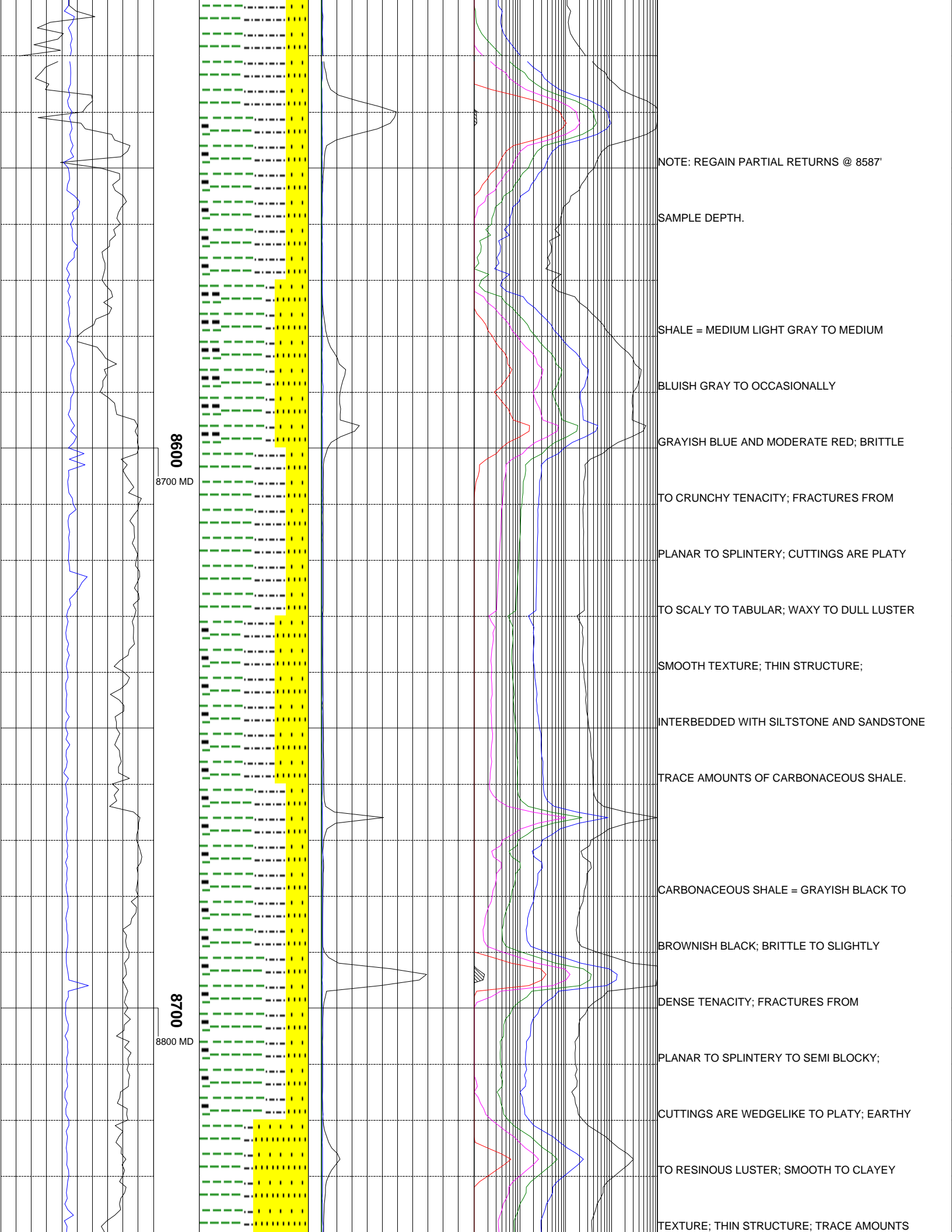


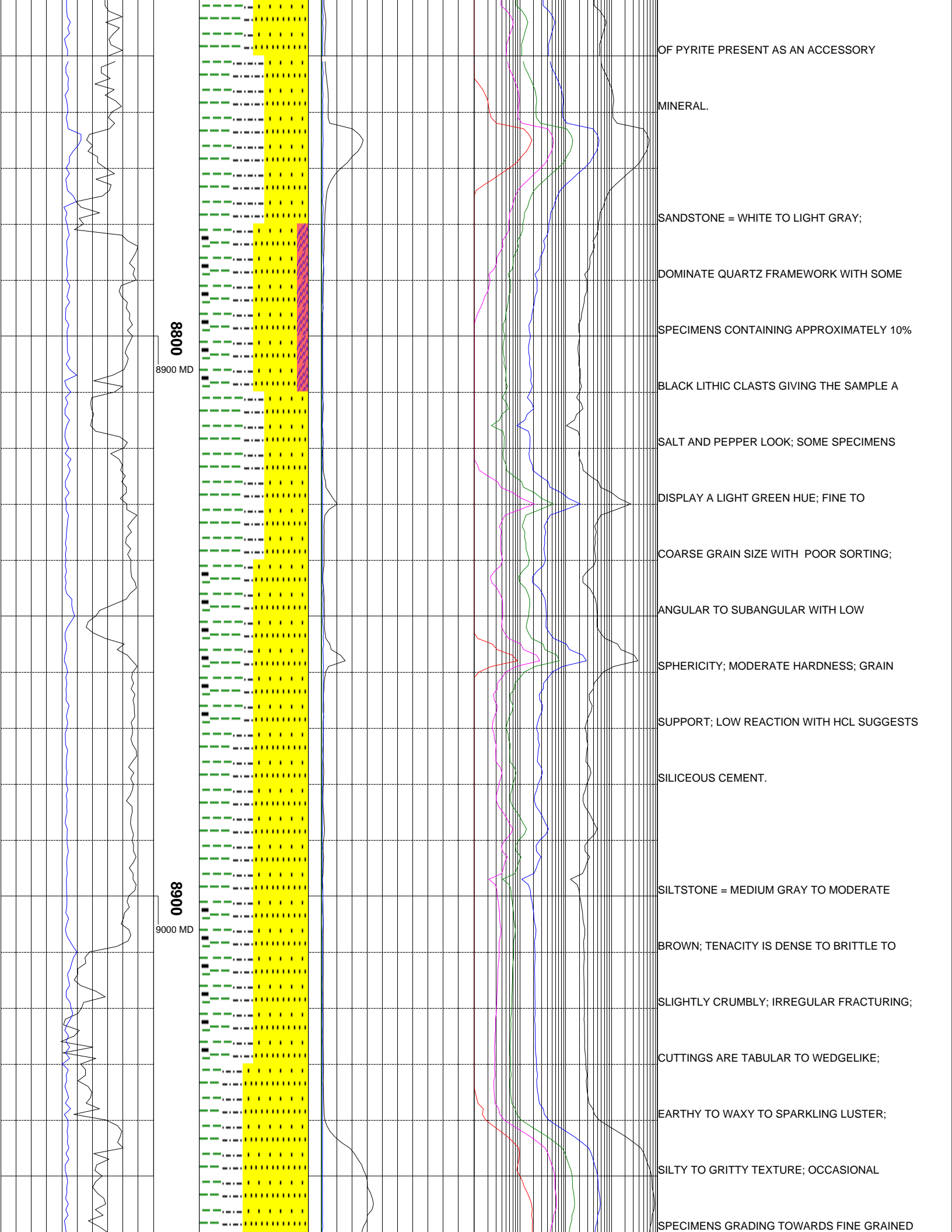


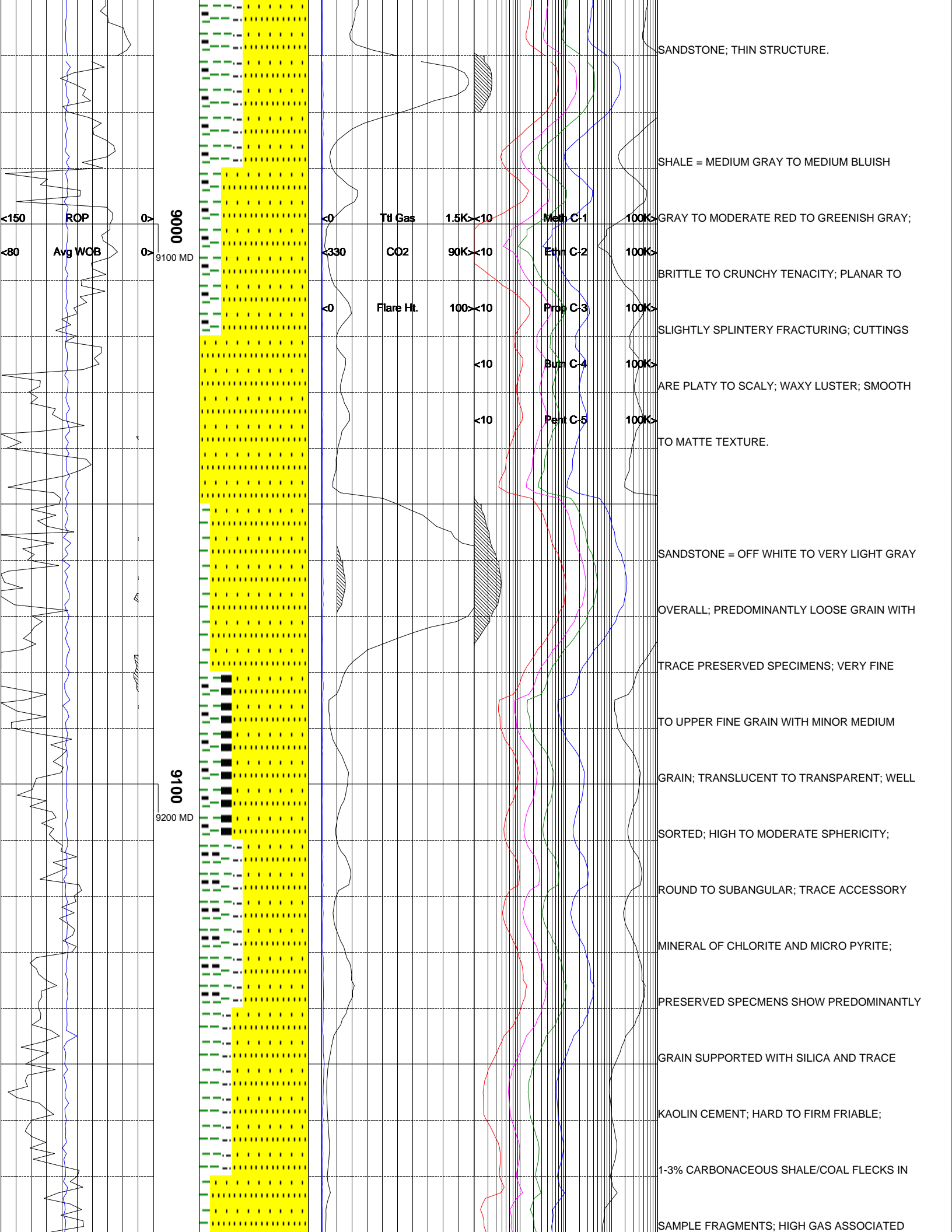


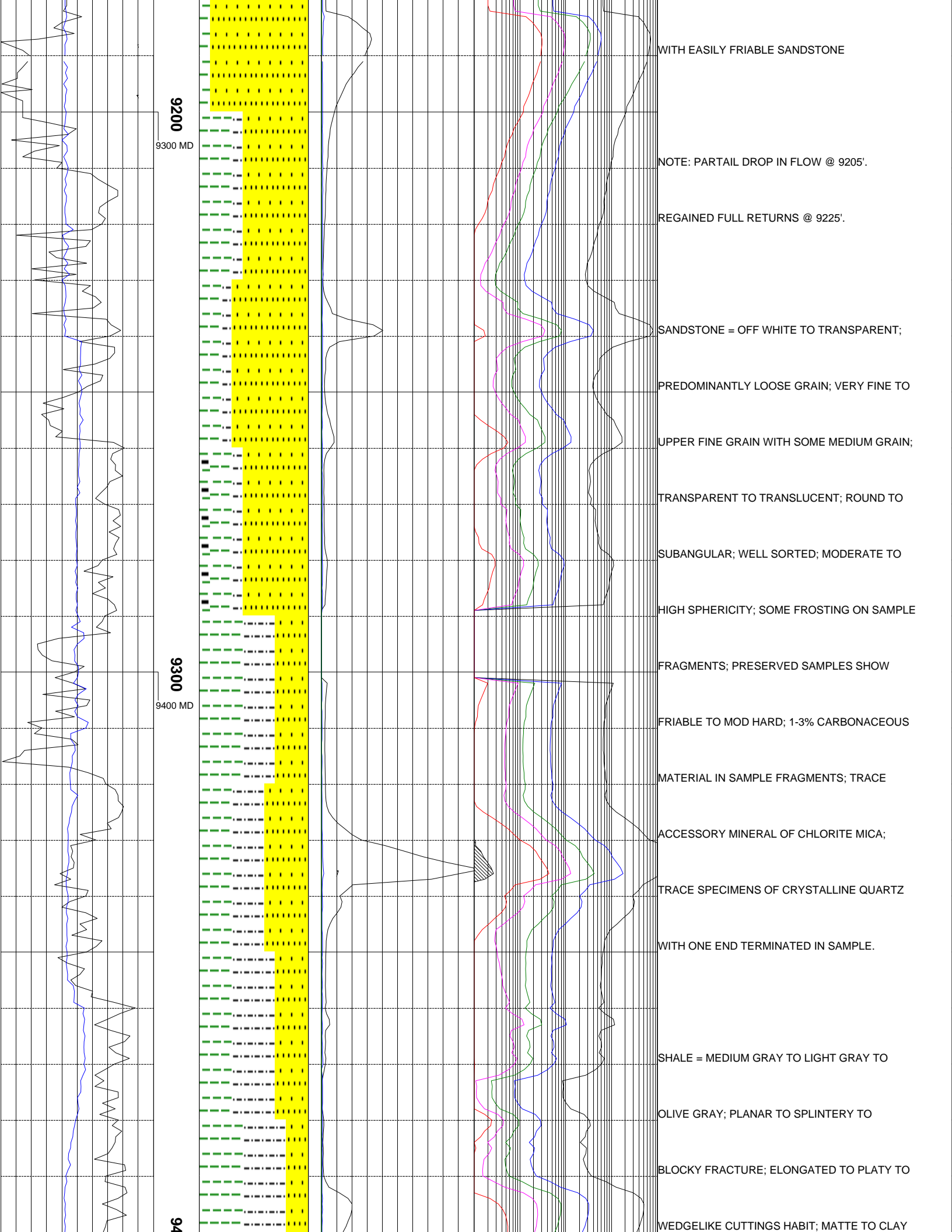


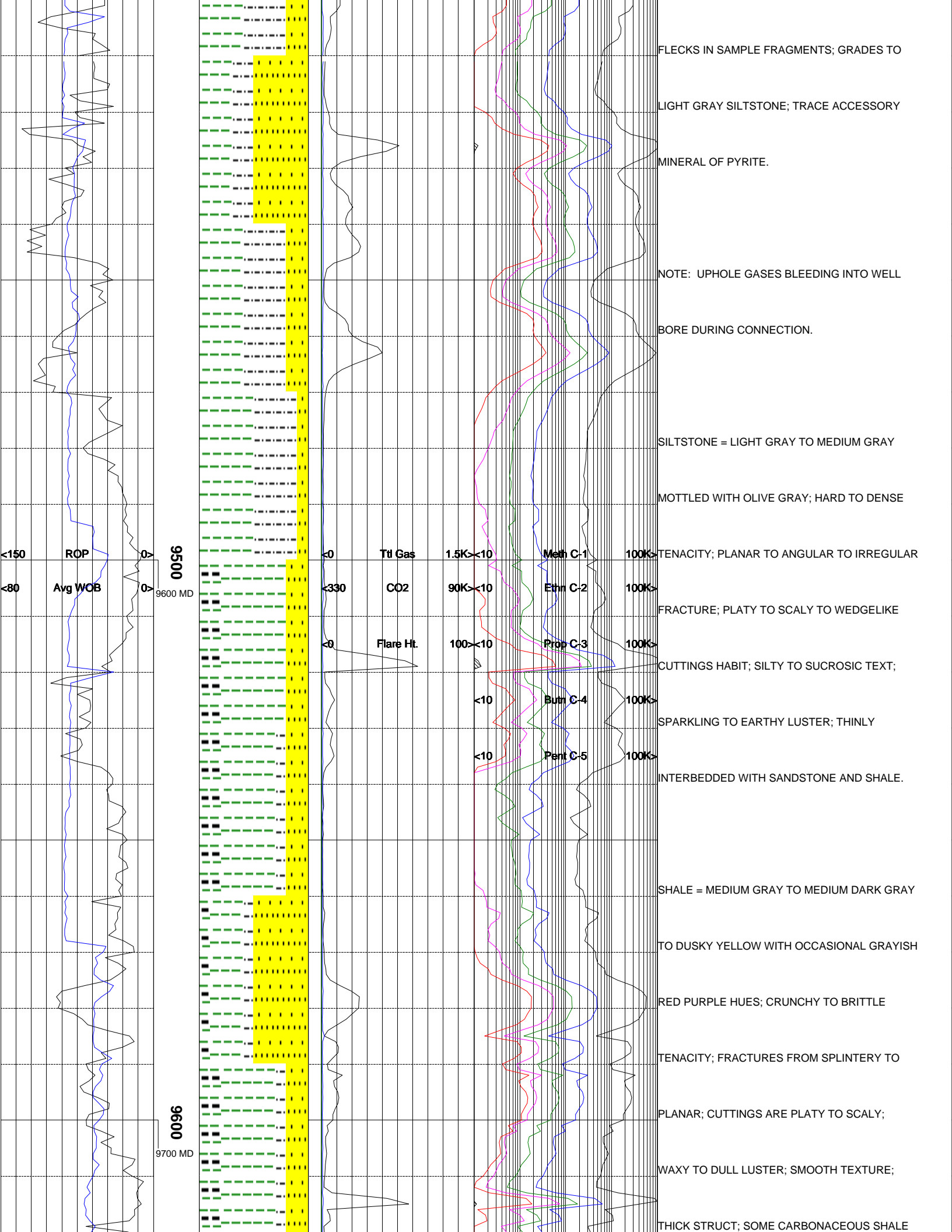


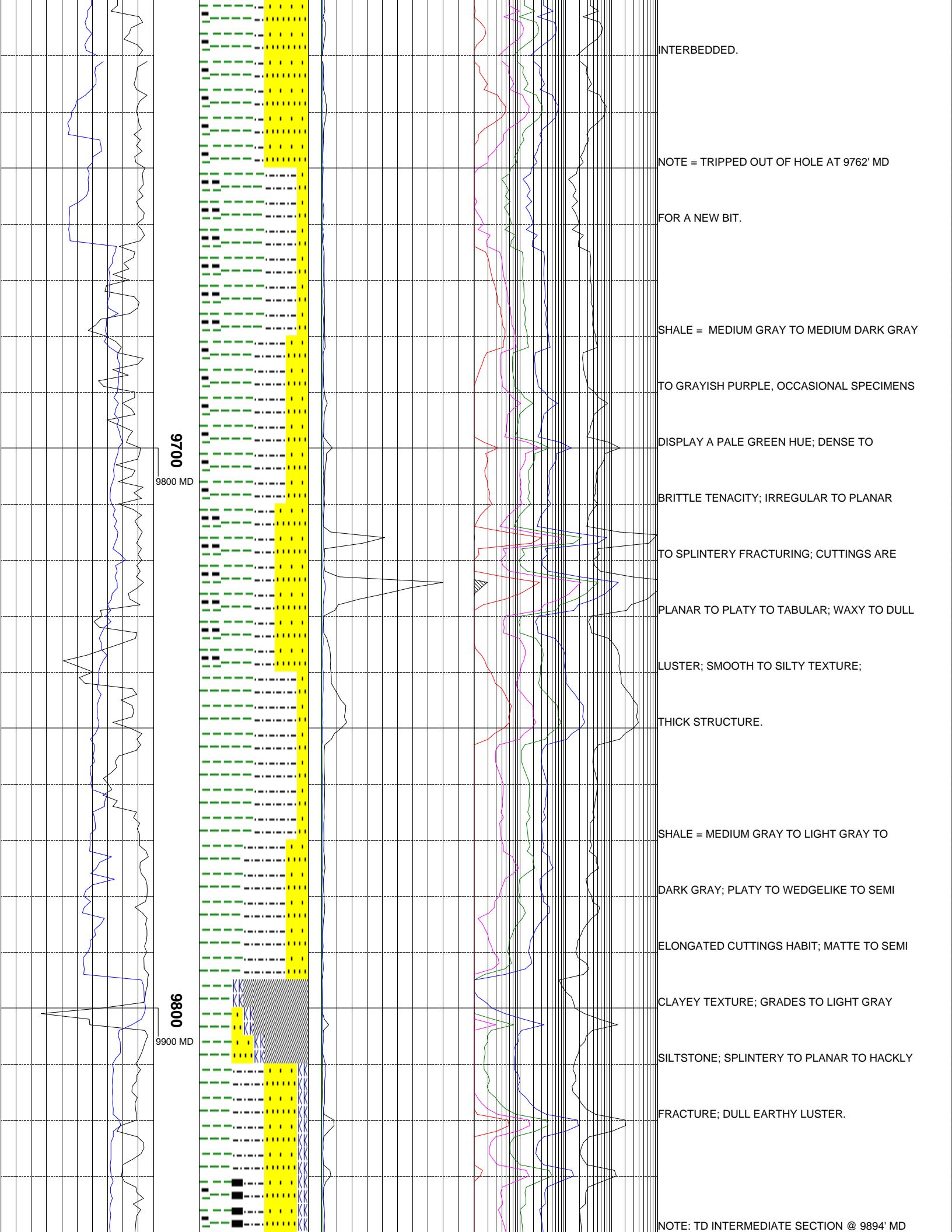


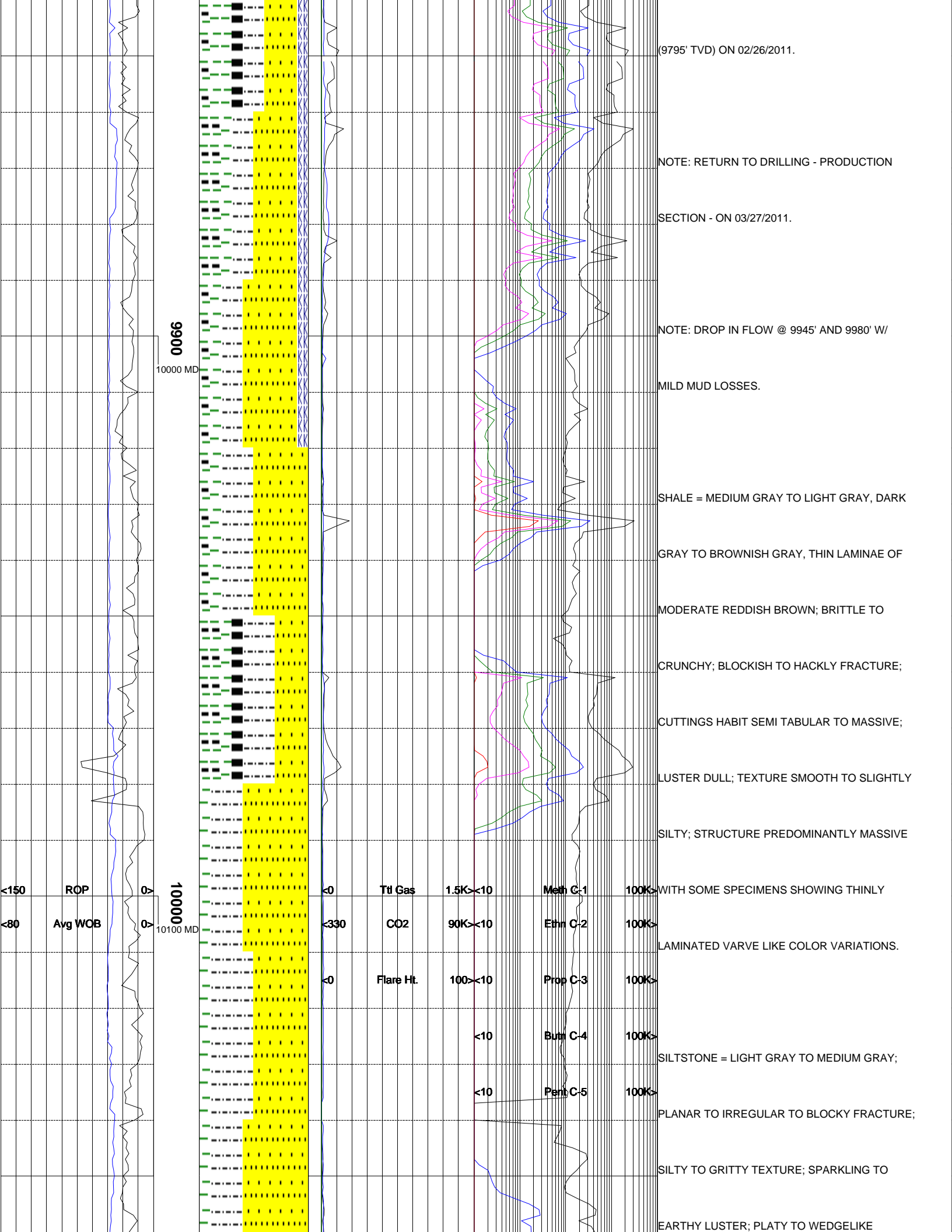


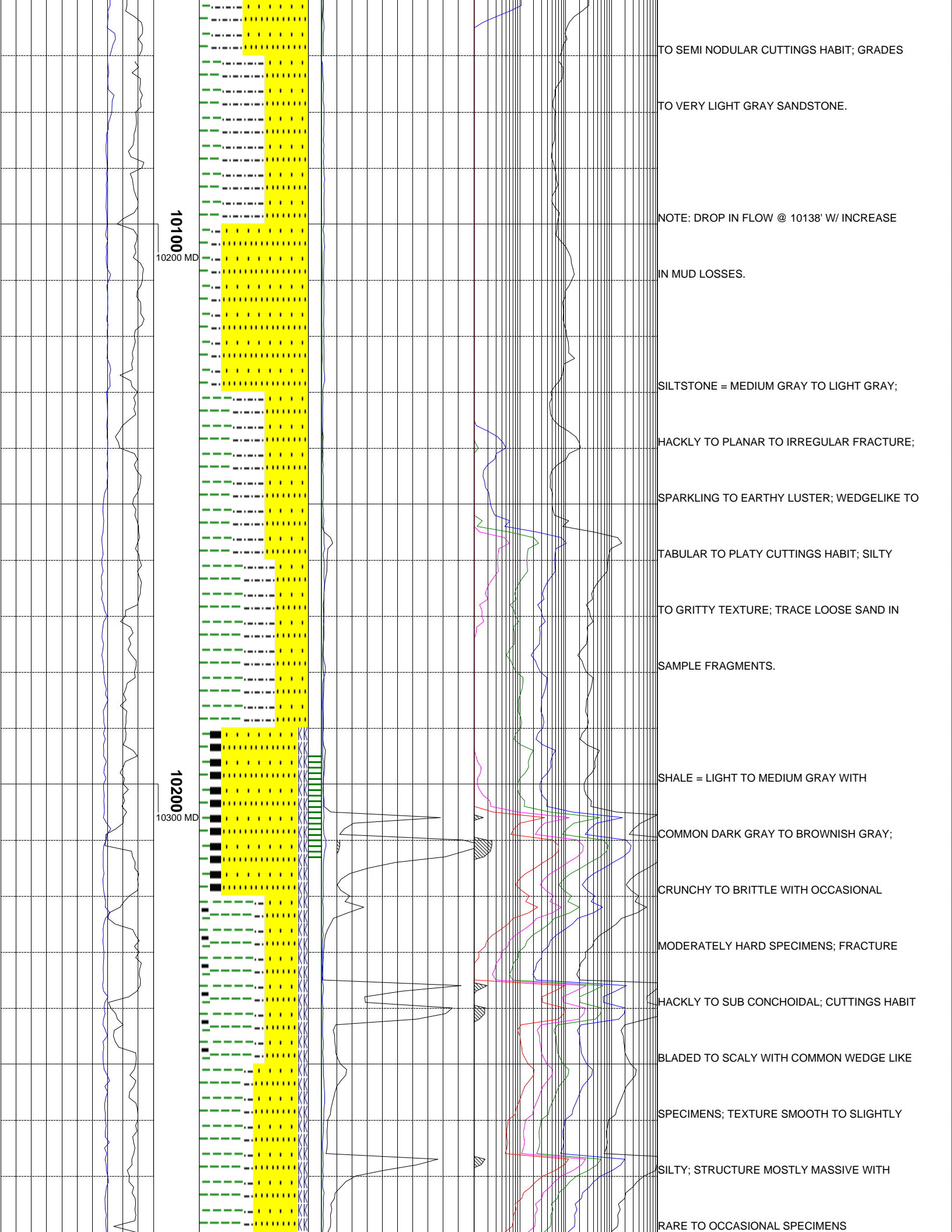


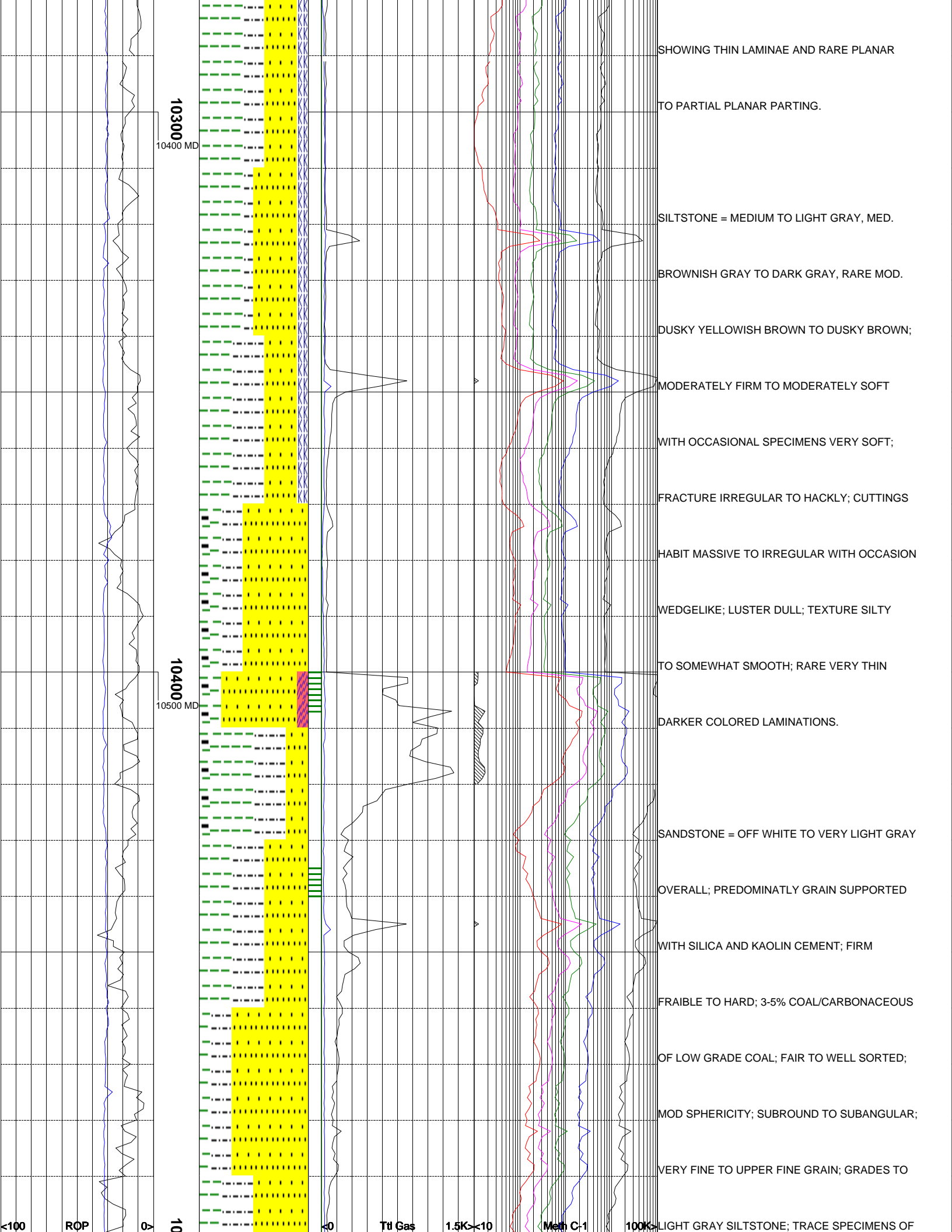


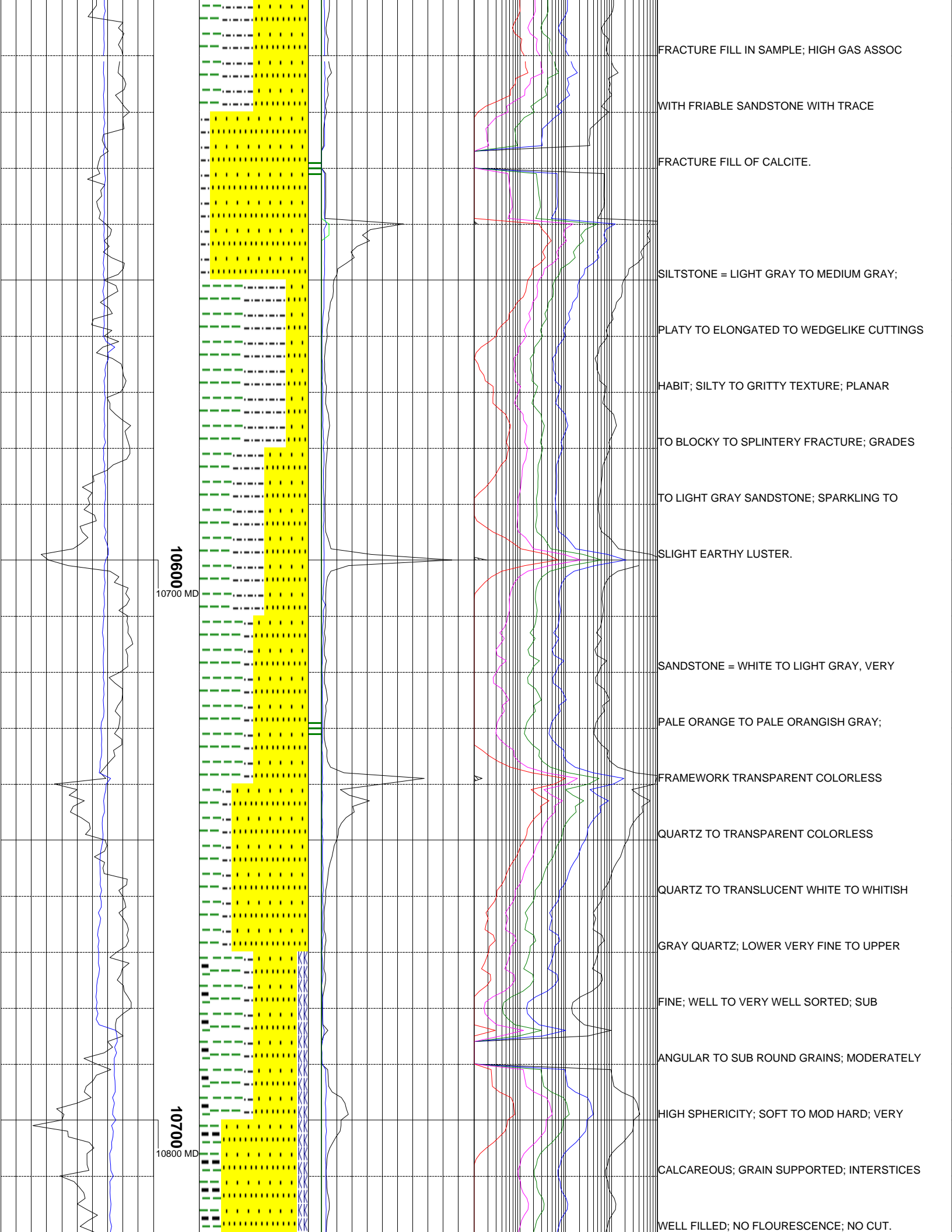


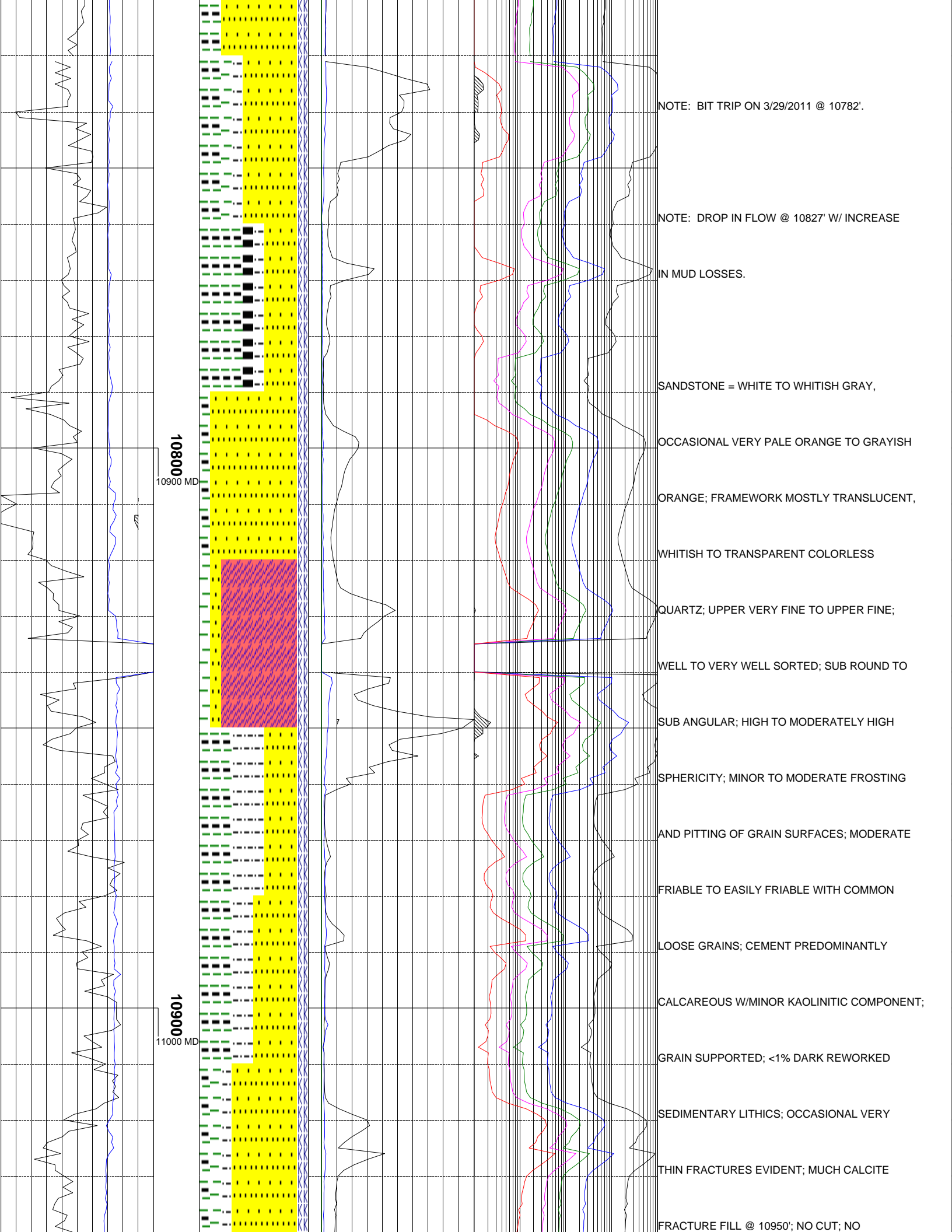


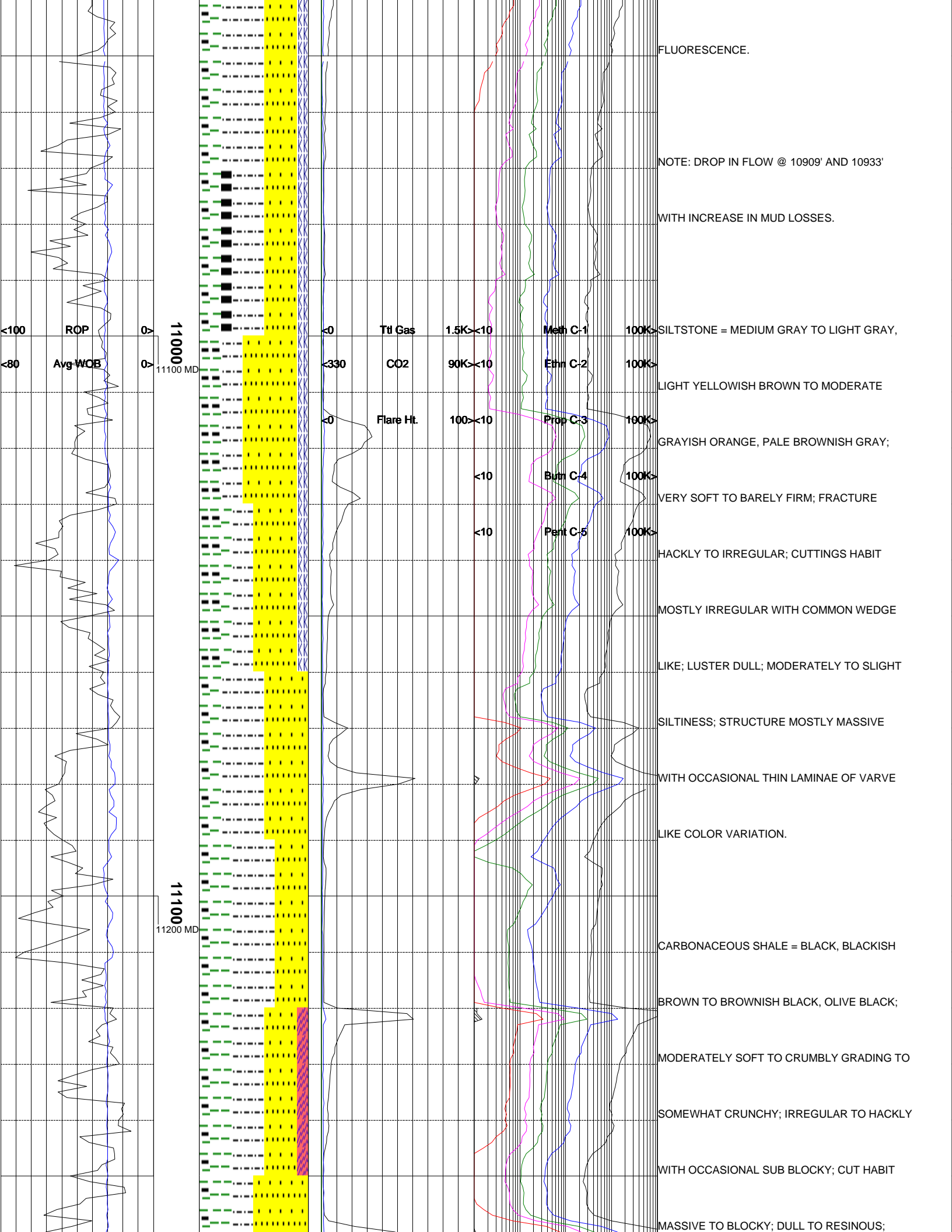


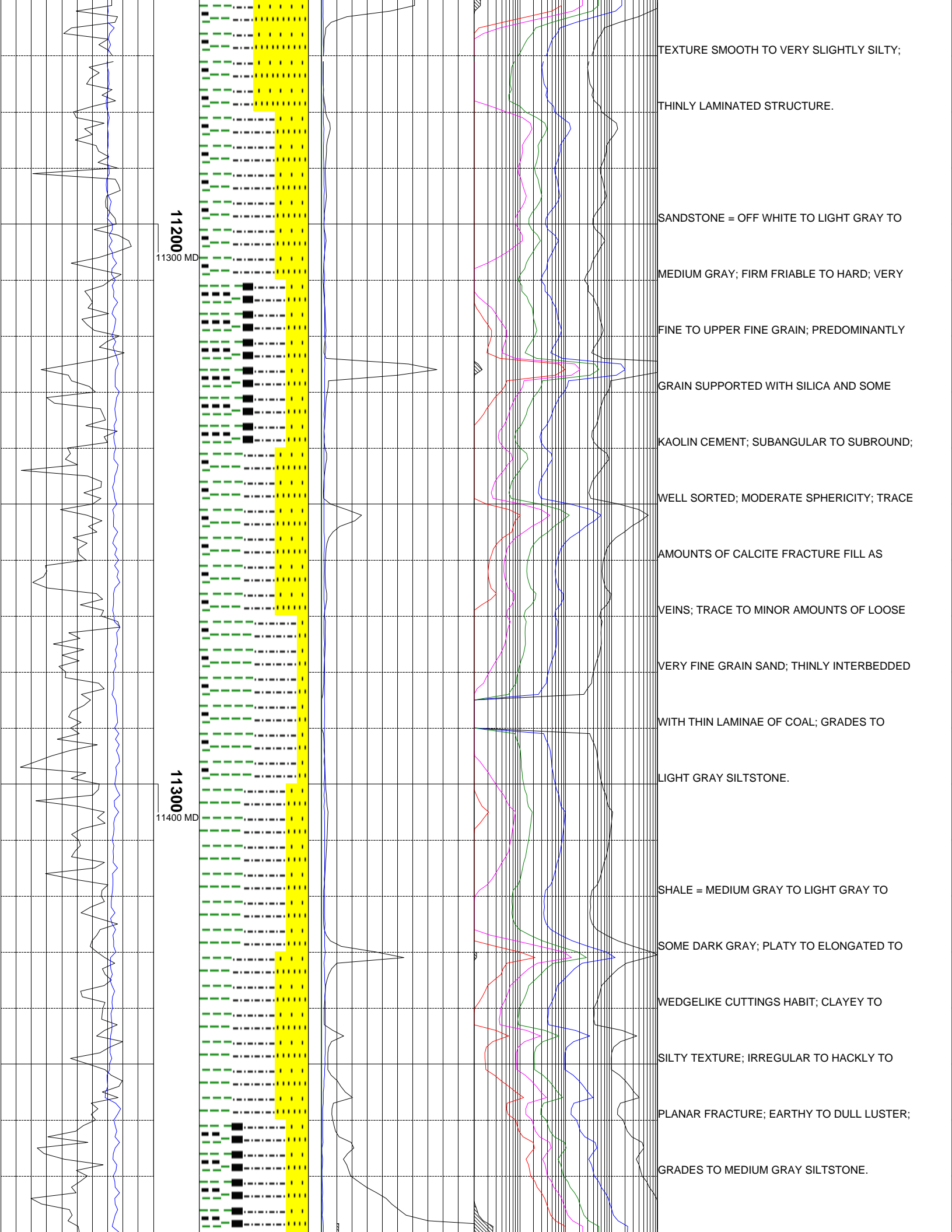


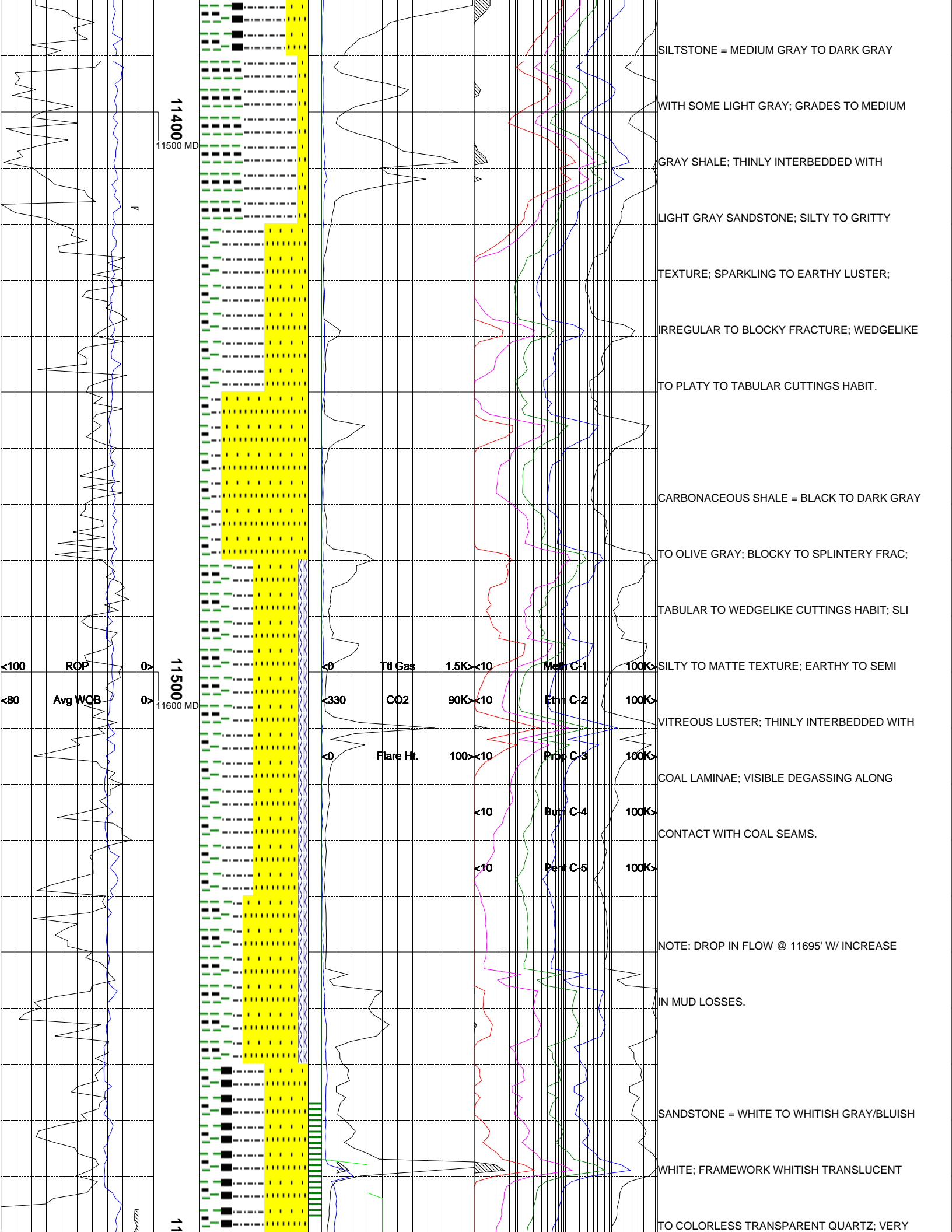


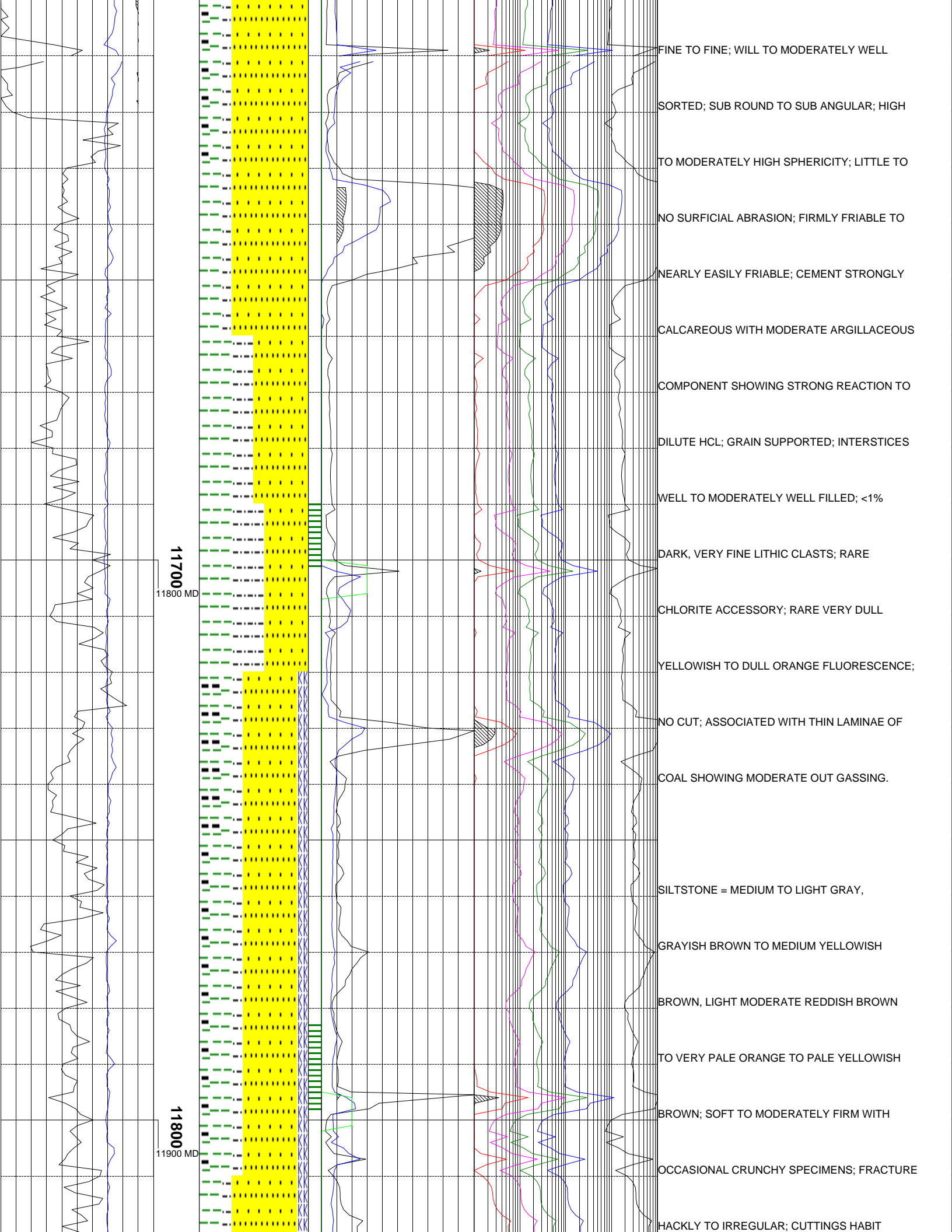


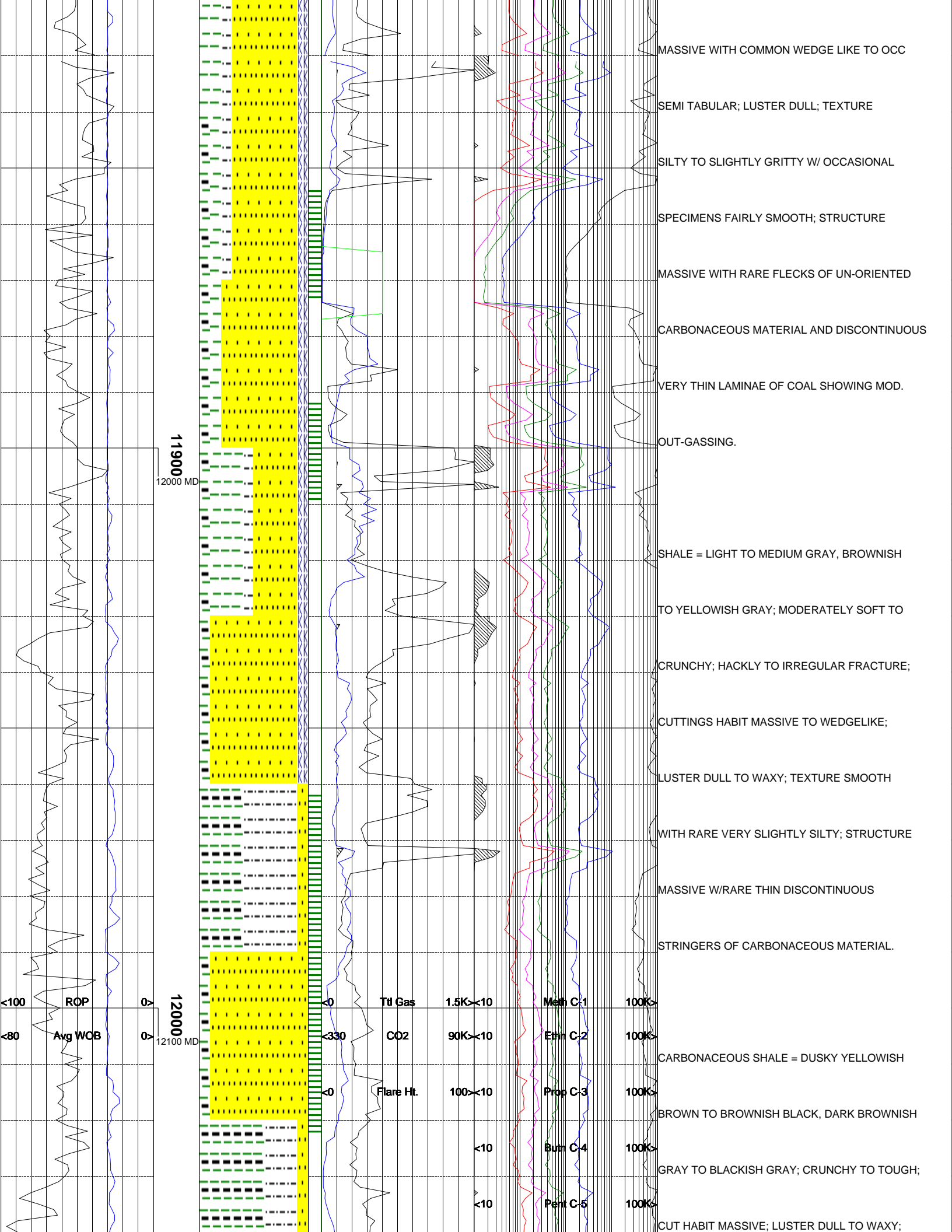


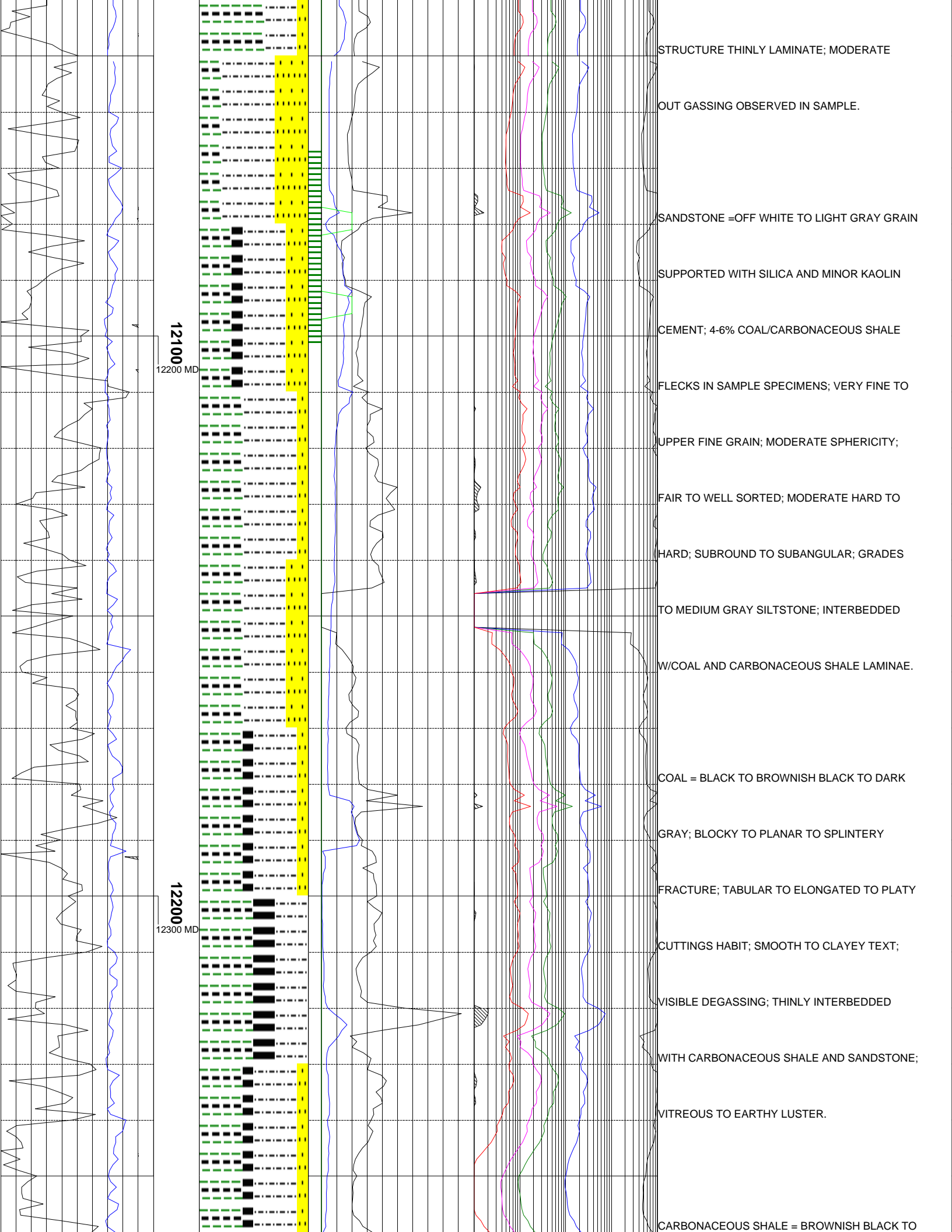


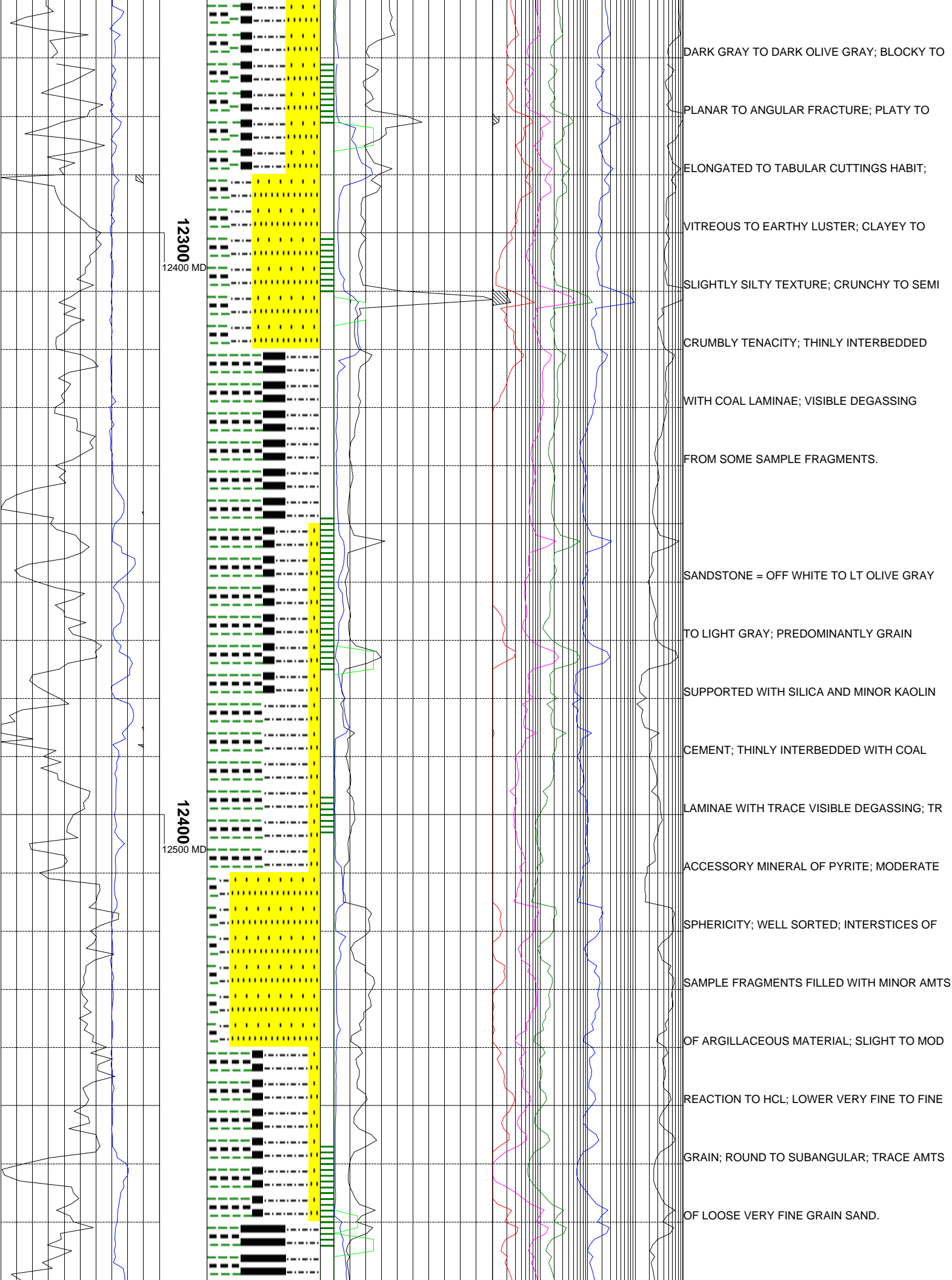


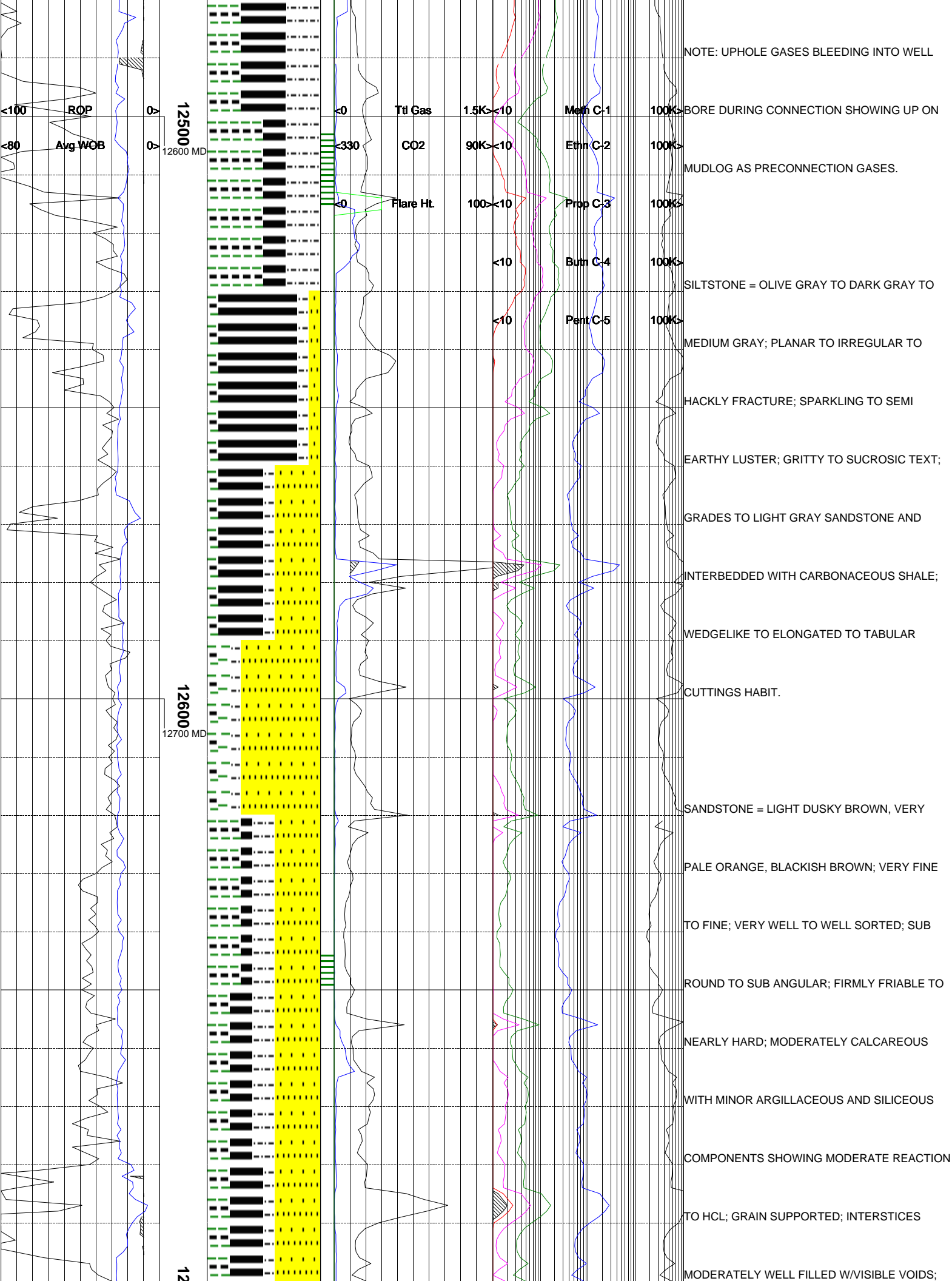


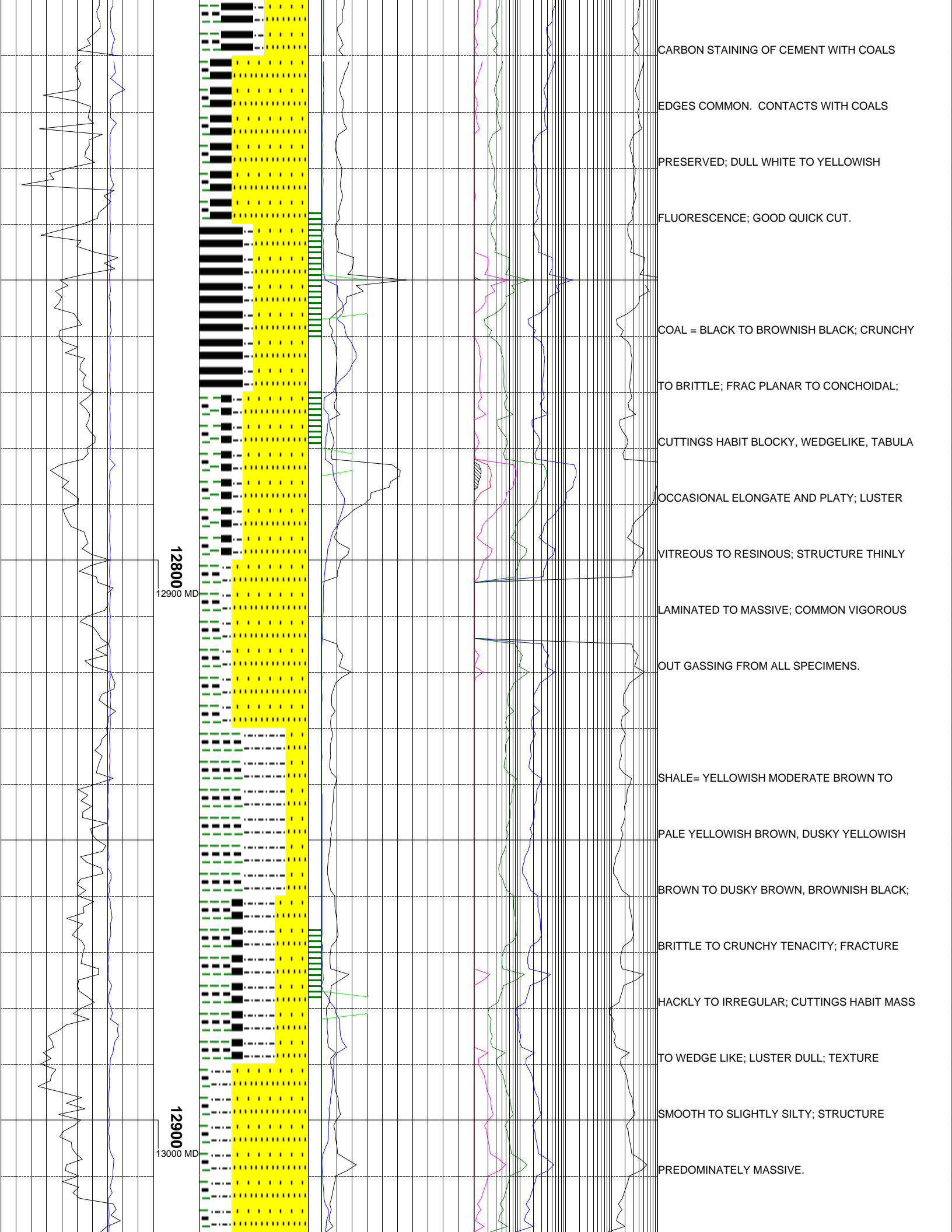


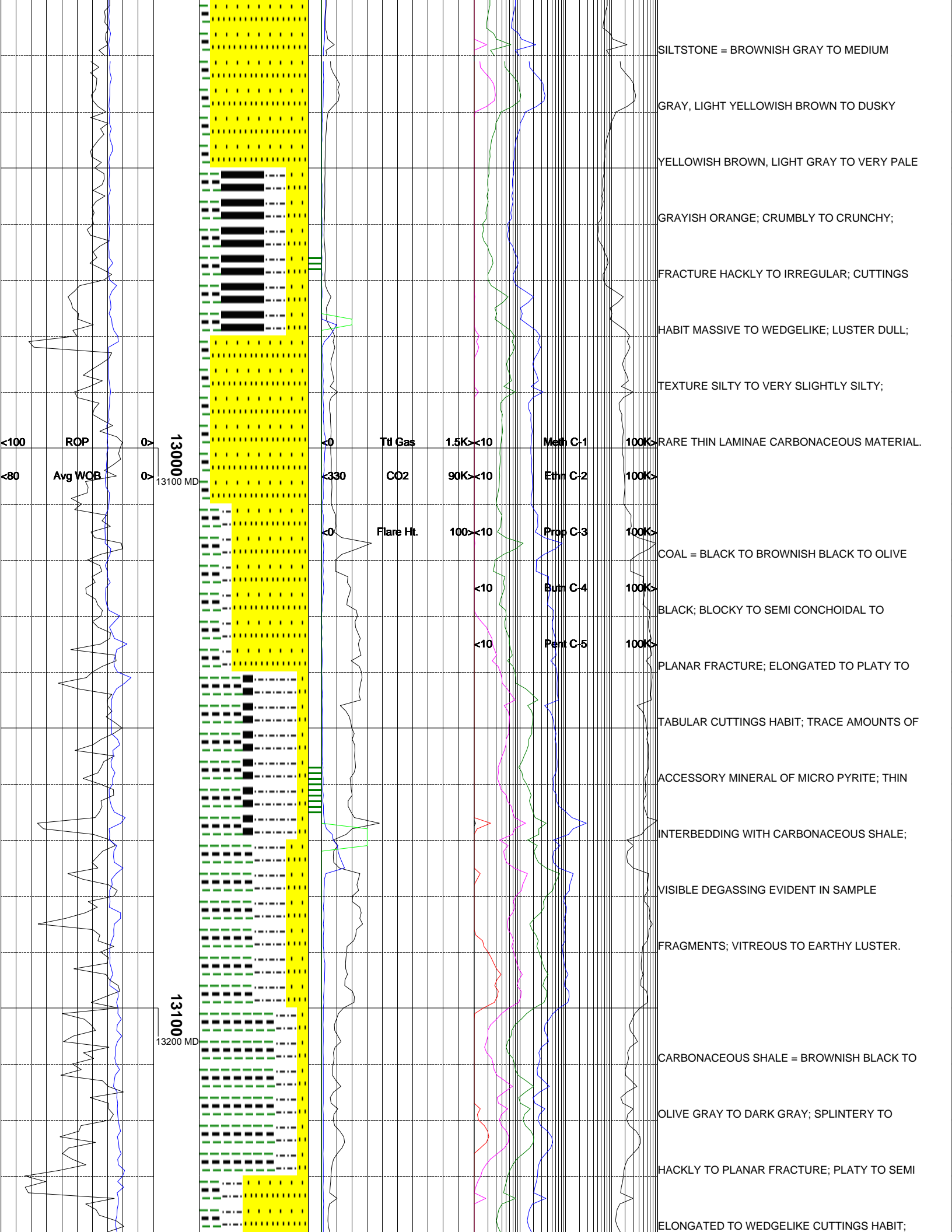


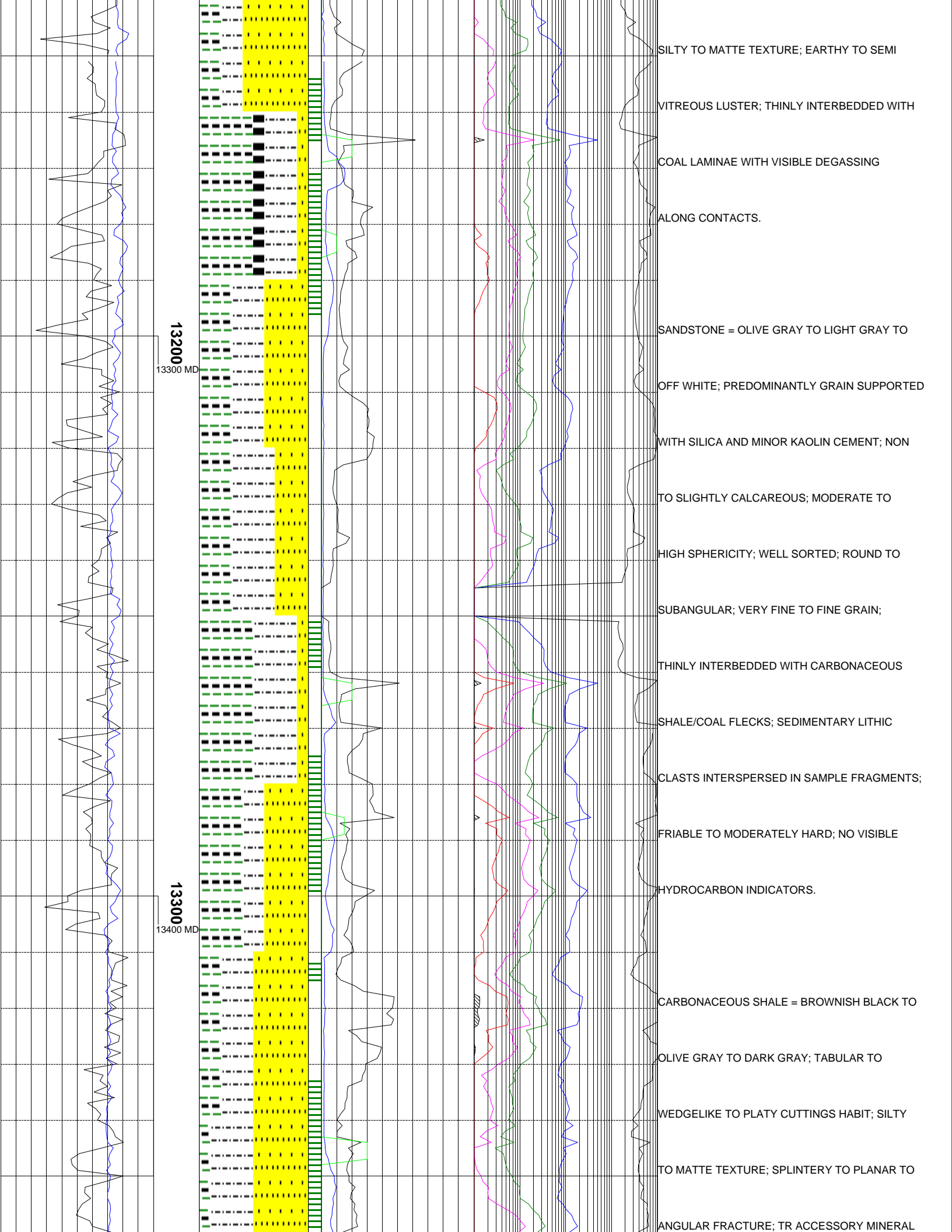


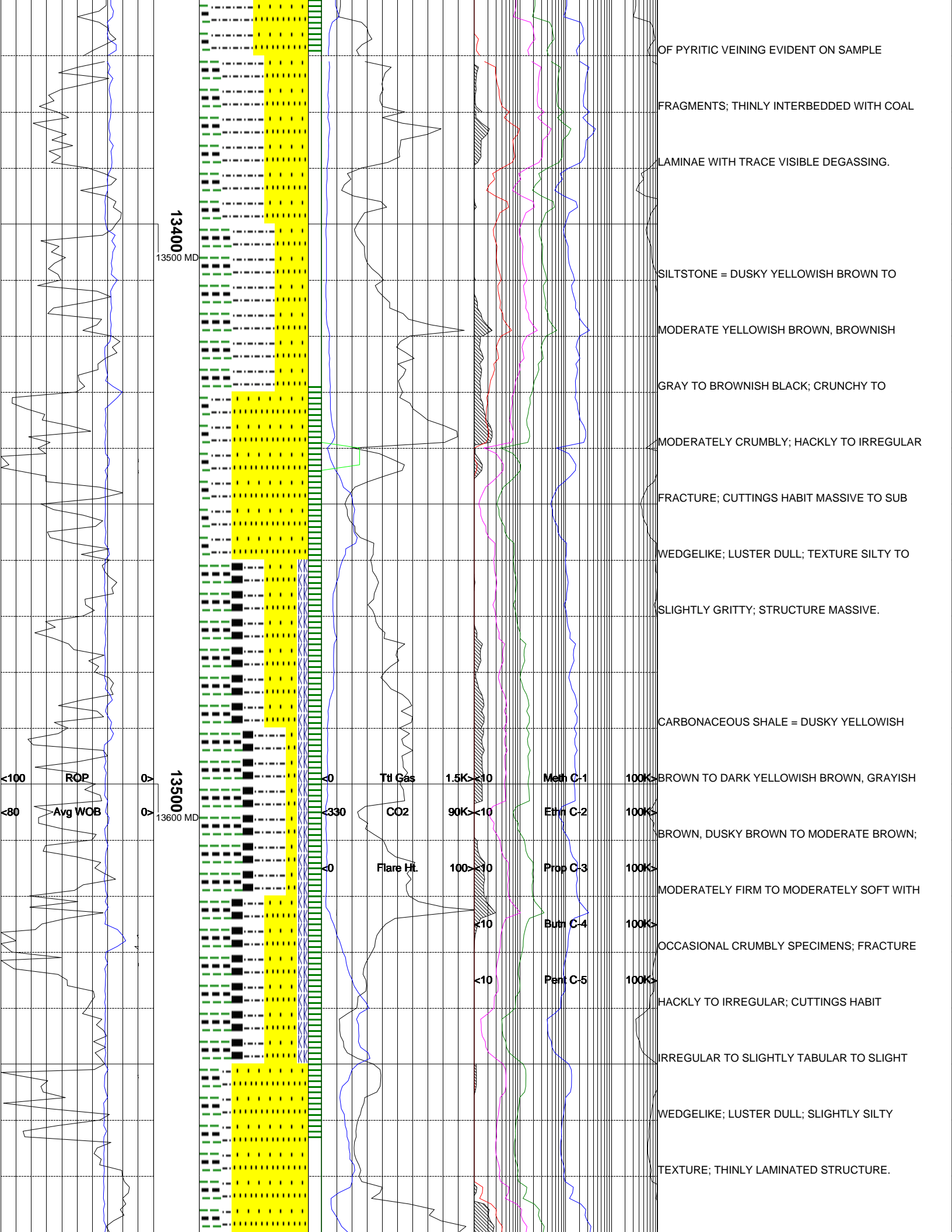


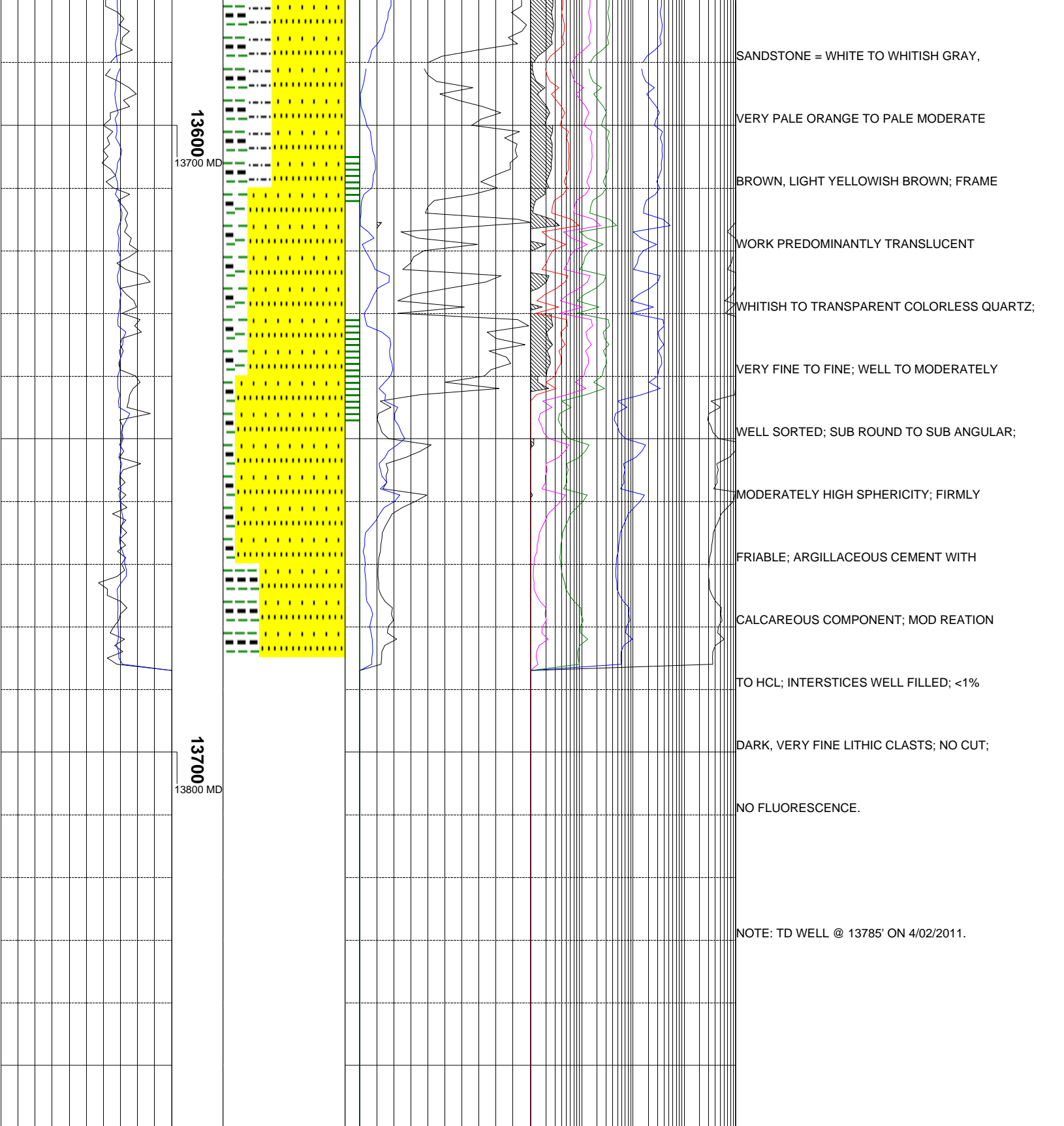












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