



Copyright © 2003 by Epoch Well Services, Inc.

Houston, TX
(281) 784-5500
Bakersfield, CA
(661) 328-1595
New Iberia, LA
(337) 364-2322
Anchorage, AK
(907) 561-2465

MUDLOG TVD

COMPANY ExxonMobil Production
WELL FRU 197-33B6
FIELD Piceance Creek
REGION Rockies
COORDINATES 39.921441
108.282516
ELEVATION 6459'
COUNTY, STATE Rio Blanco, CO
API INDEX 051031142400
SPUD DATE 03/30/2010
CONTRACTOR HE
CO. REP. W.GARNER/ C.CURTIS
RIG/TYPE HP321
LOGGING UNIT MLU#31
GEOLOGISTS M.FRANCO/C.RECORD
B.DELANEY
ADD. PERSONS M.PIPER/ R.MCCANE
CO. GEOLOGIST CHRIS ALBA

LOG INTERVAL

CASING DATA

DEPTHS: 4045' TO 12776'
DATES: 07/05/2010 TO 07/17/2010
SCALE: 5" = 100'

16" AT 149'
10.75" AT 4045'
4" AT 12776'

AT

MUD TYPES

HOLE SIZE

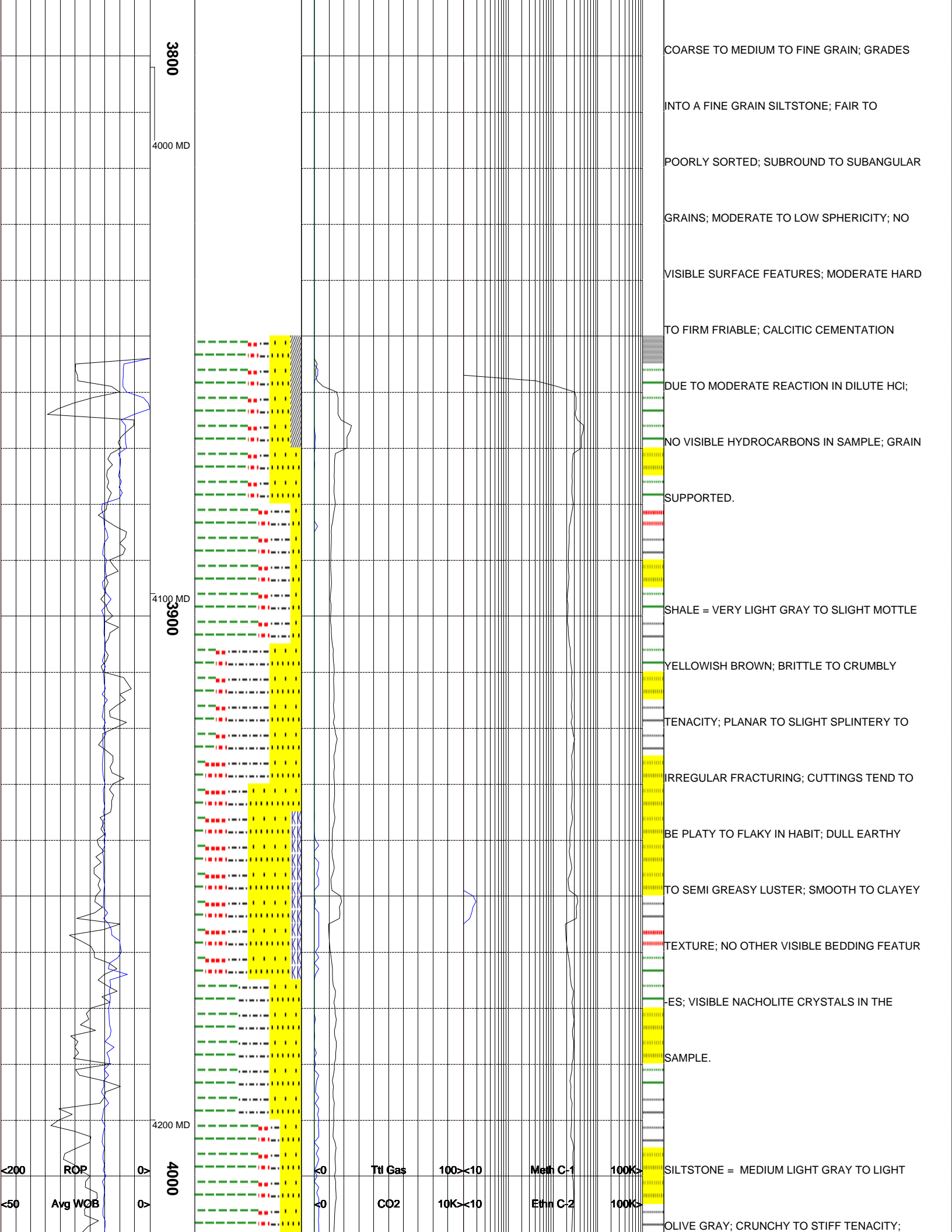
WATER-BASED TO 4055'
LSND TO 12776'
TO
TO

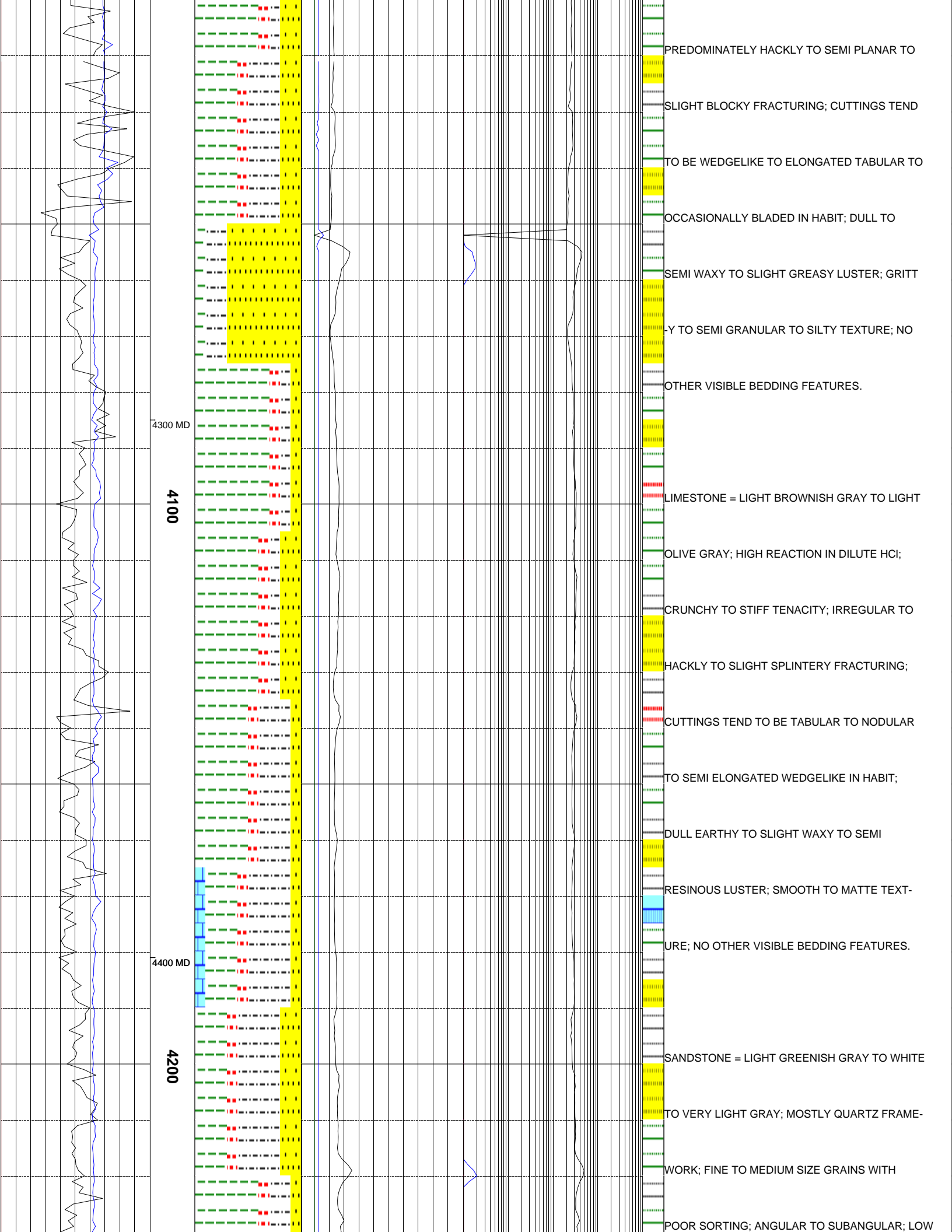
14.00" TO 4055'
10.00" TO 10343'
8.15" TO 12776'
TO

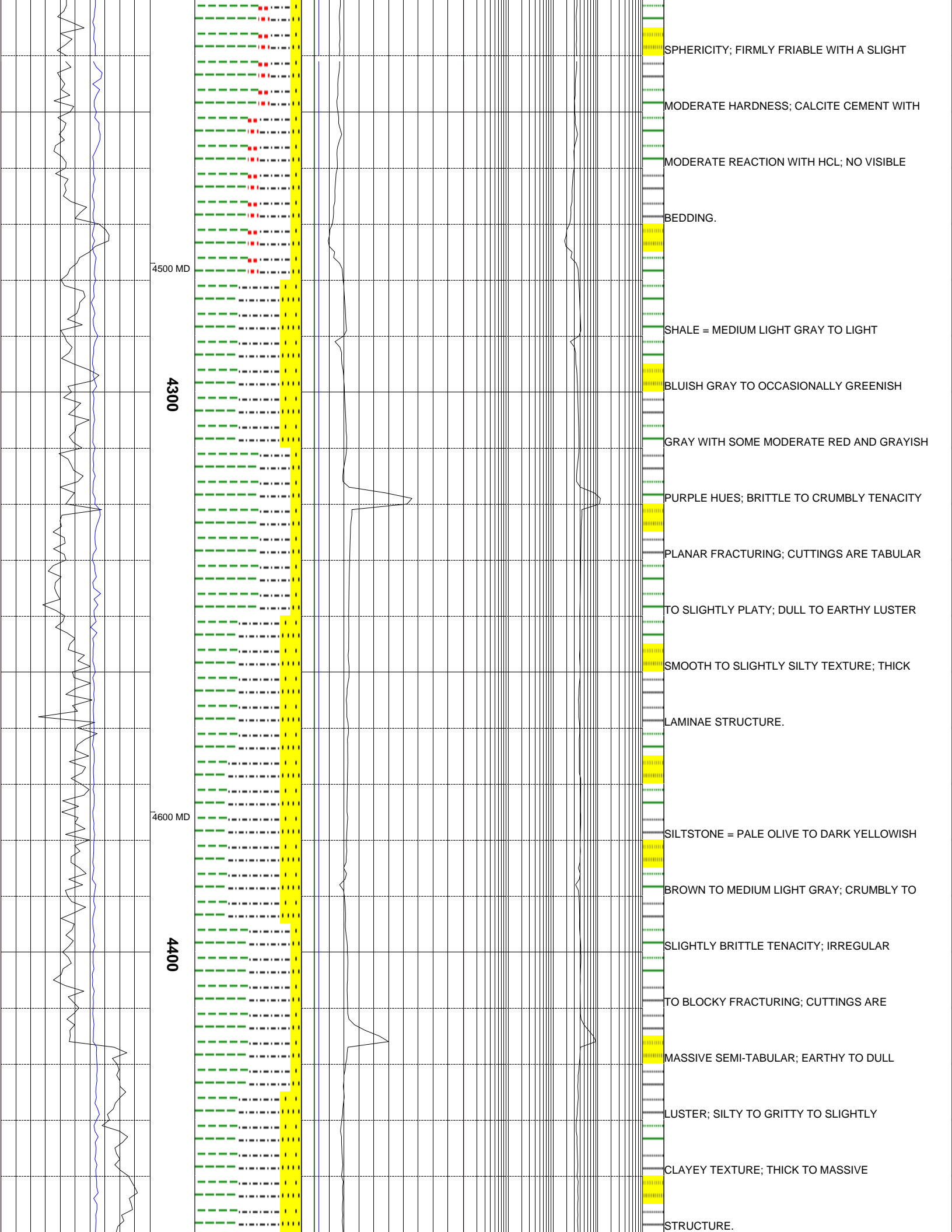
ABBREVIATIONS

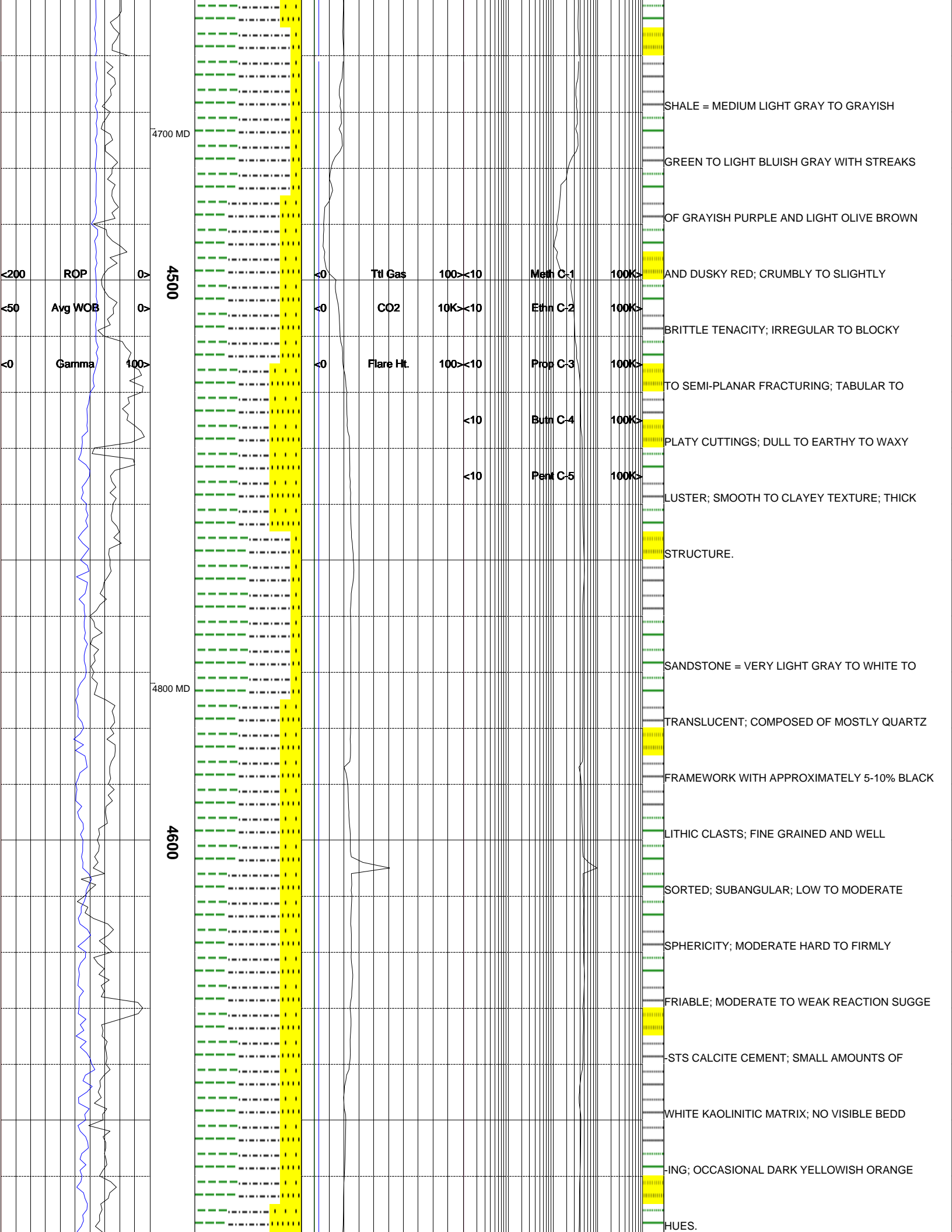
| | | |
|----------------------|--------------------------|---------------------|
| NB NEWBIT | PV PLASTIC VISCOSITY | LC LOST CIRCULATION |
| RRB RERUN BIT | YP YIELD POINT | CO CIRCULATE OUT |
| CB CORE BIT | FL FLUID LOSS | NR NO RETURNS |
| WOB WEIGHT ON BIT | CL PPM CLORIDE ION | TG TRIP GAS |
|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

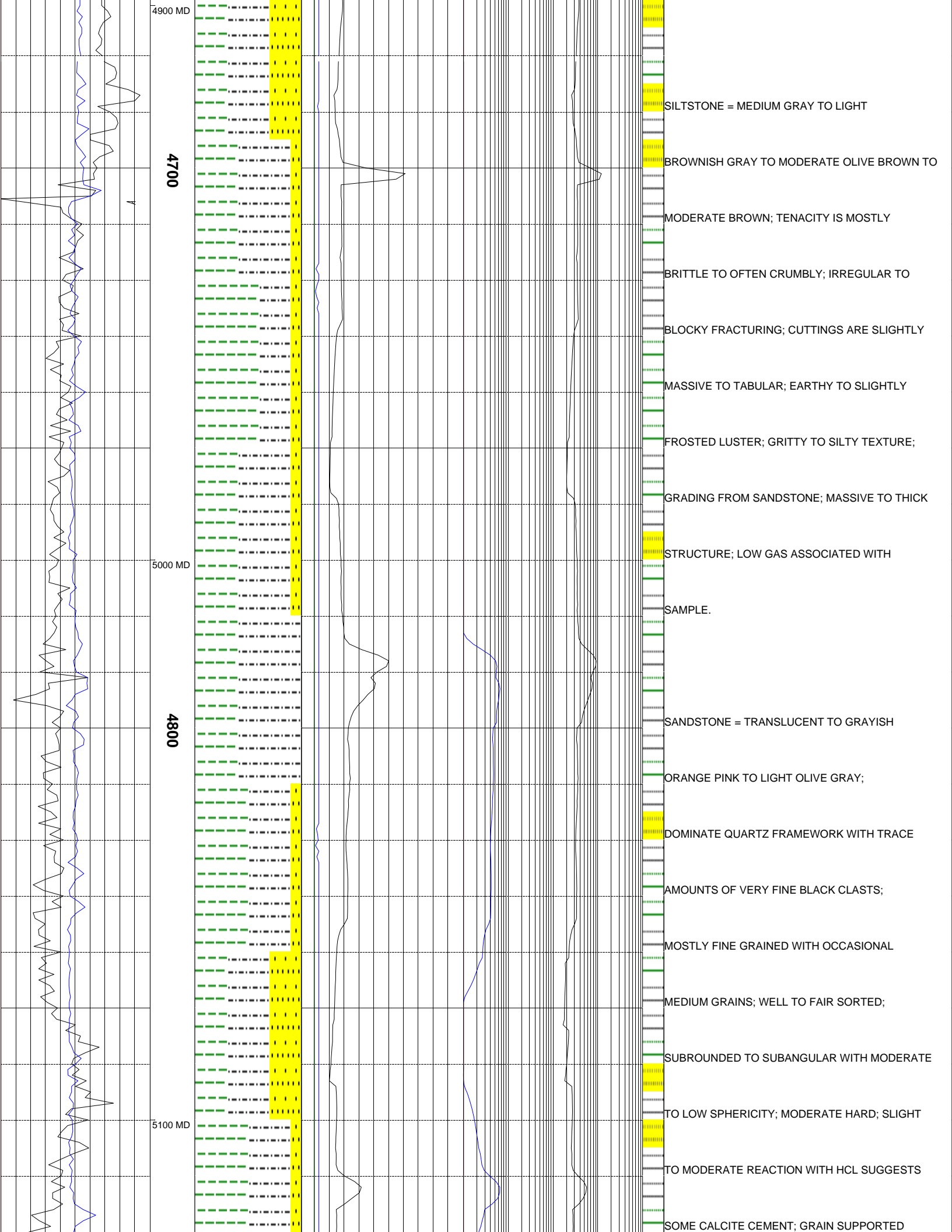
| | | | | |
|------------------|----------------------|-------------------|------------------------|----------------------|
| ALTERED ZONE | CHERT - GLASSY | FELSIC SILIC DIKE | MARL - CALC | SANDSTONE |
| ANDESITE | CHERT - PORCEL | FOSSIL | METAMORPHICS | SANDSTONE-TUFFACEOUS |
| ANHYDRITE | CHERT - 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 | KAOLINIC | RECRYSTALLIZED CALCITE | VOLCANICS |
| CHALK | DIATOMITE | LIMESTONE | RHYOLITE | |
| CRYSTALLINE TUFF | DIORITE | LITHIC TUFF | SALT | |
| CHERT - ARGILL | DOLOSTONE | MARL - DOLO | SAND | |

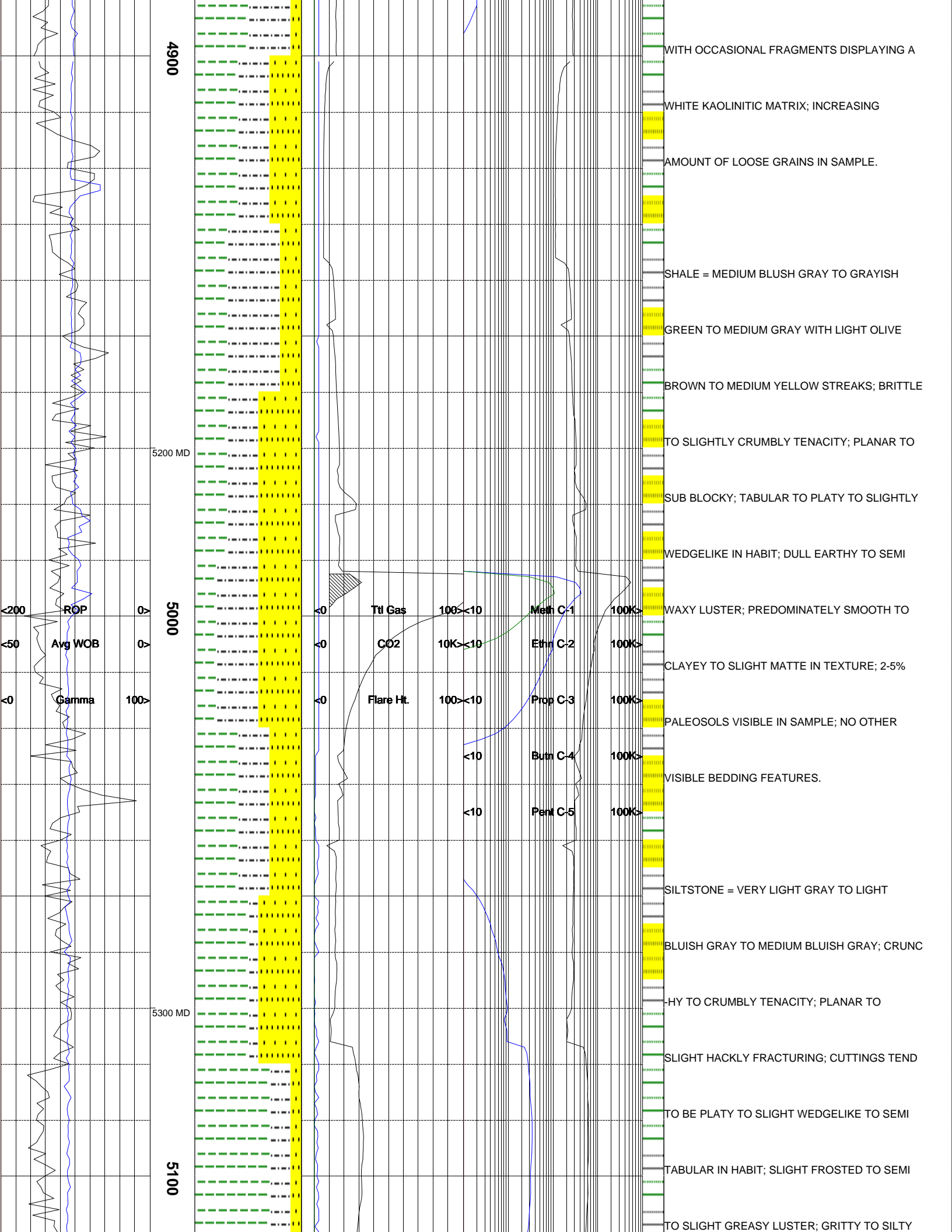


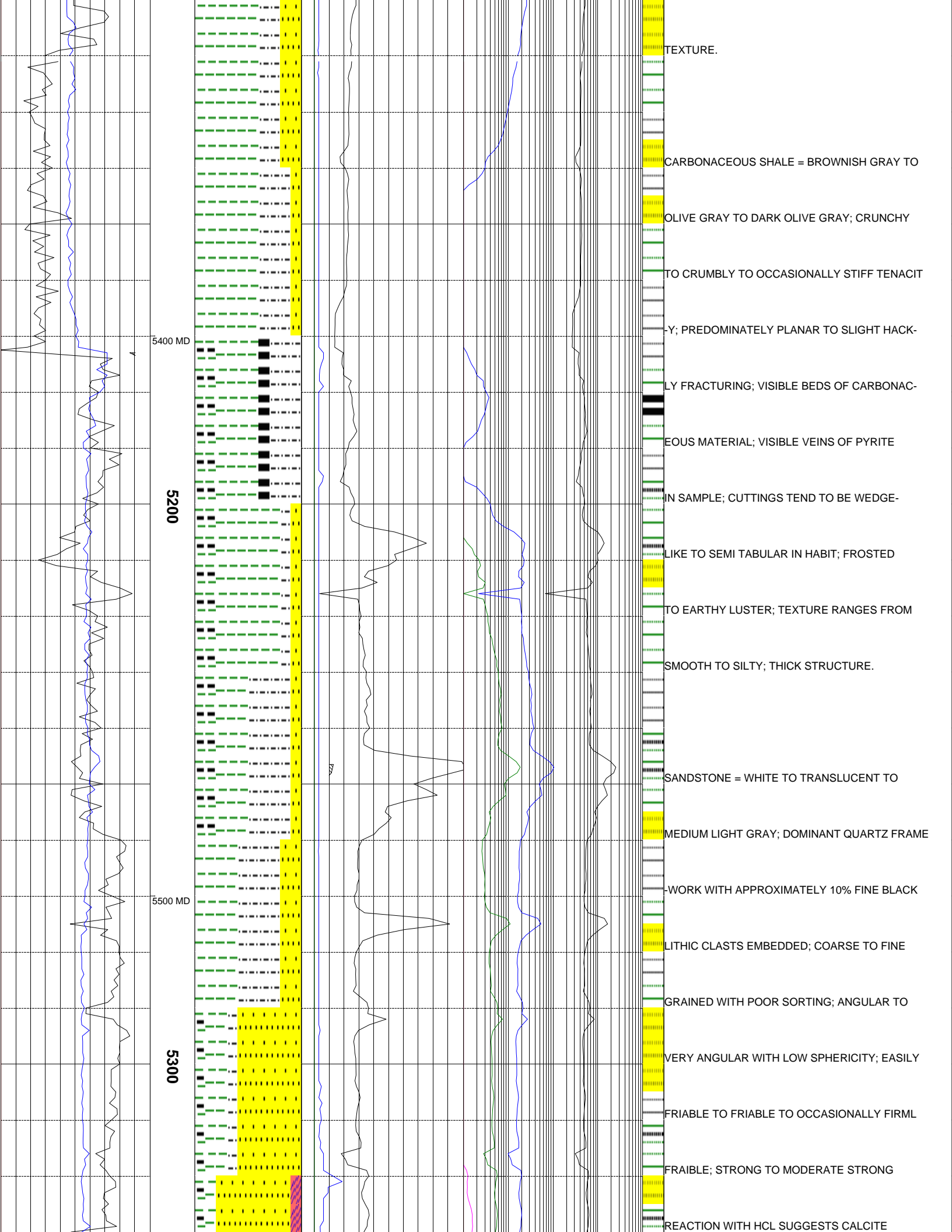


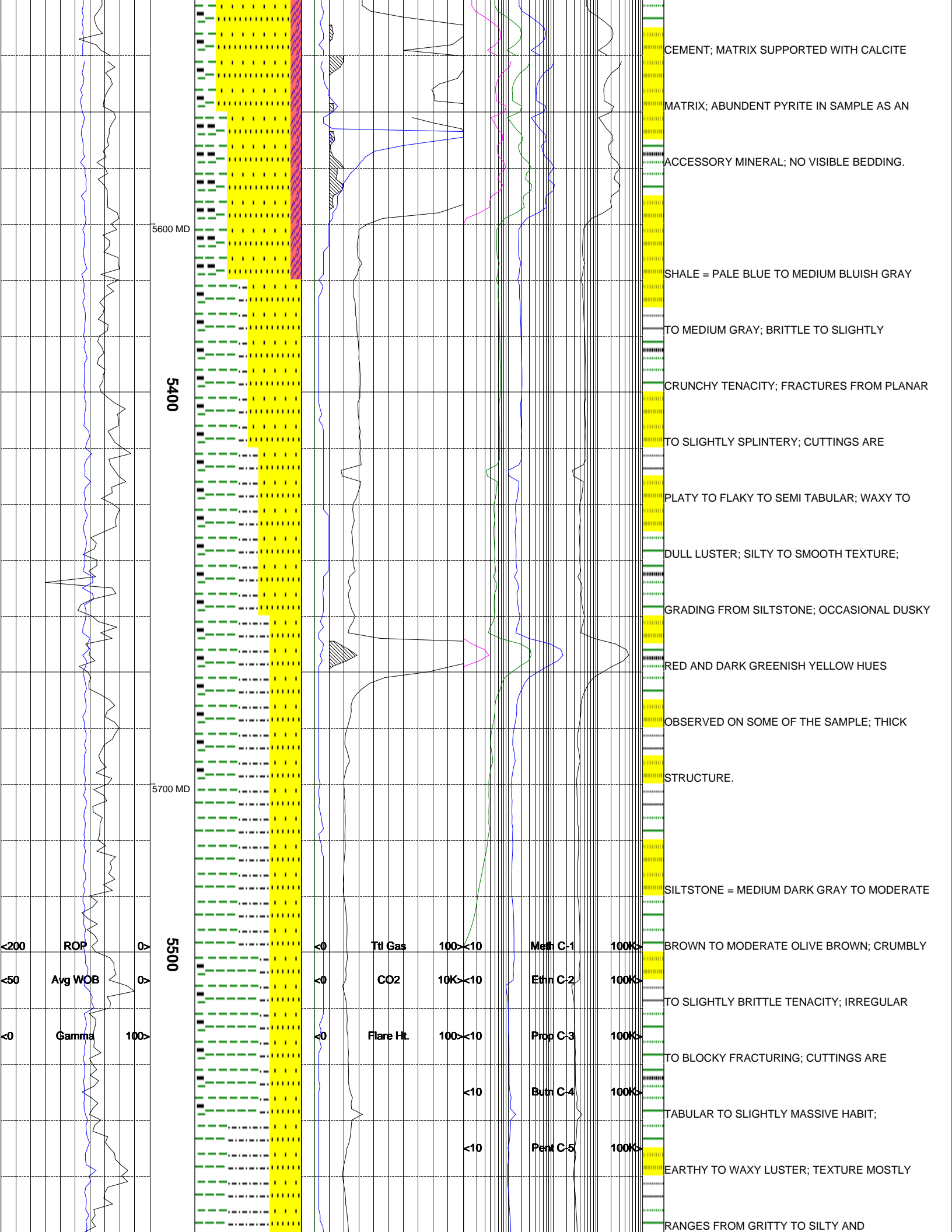


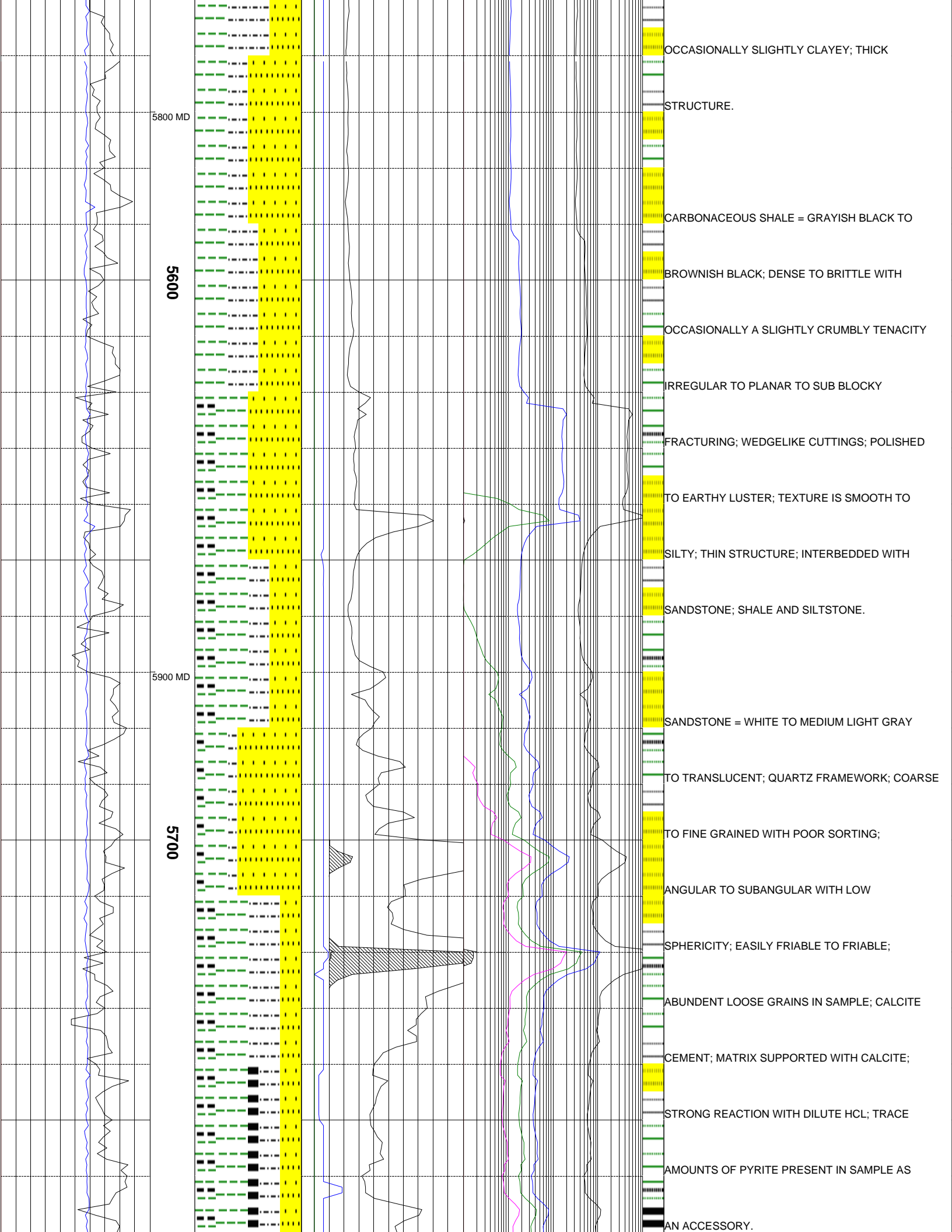












5800 MD

5600

5900 MD

5700

OCCASIONALLY SLIGHTLY CLAYEY; THICK

STRUCTURE.

CARBONACEOUS SHALE = GRAYISH BLACK TO

BROWNISH BLACK; DENSE TO BRITTLE WITH

OCCASIONALLY A SLIGHTLY CRUMBLY TENACITY

IRREGULAR TO PLANAR TO SUB BLOCKY

FRACTURING; WEDGELIKE CUTTINGS; POLISHED

TO EARTHY LUSTER; TEXTURE IS SMOOTH TO

SILTY; THIN STRUCTURE; INTERBEDDED WITH

SANDSTONE; SHALE AND SILTSTONE.

SANDSTONE = WHITE TO MEDIUM LIGHT GRAY

TO TRANSLUCENT; QUARTZ FRAMEWORK; COARSE

TO FINE GRAINED WITH POOR SORTING;

ANGULAR TO SUBANGULAR WITH LOW

SPHERICITY; EASILY FRIABLE TO FRIABLE;

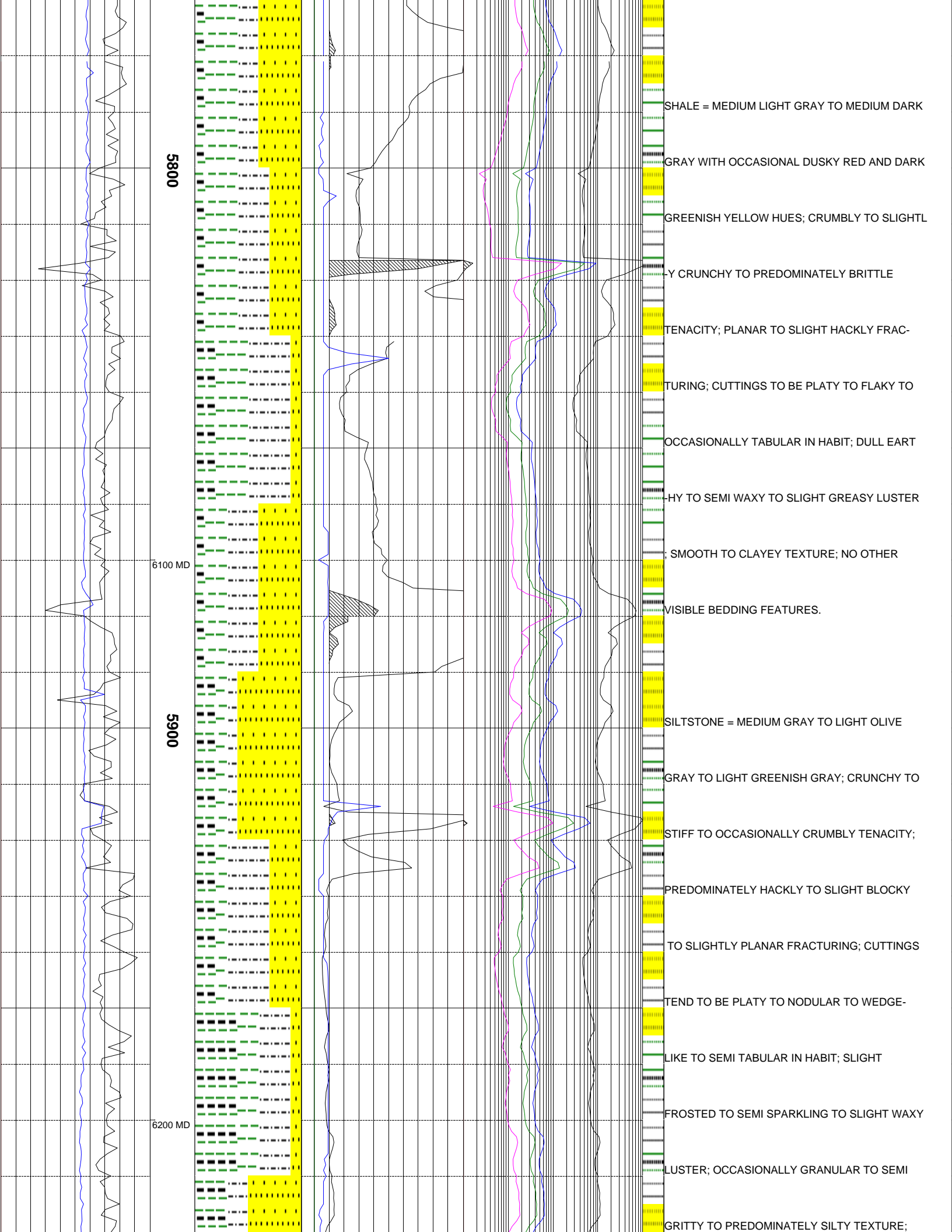
ABUNDENT LOOSE GRAINS IN SAMPLE; CALCITE

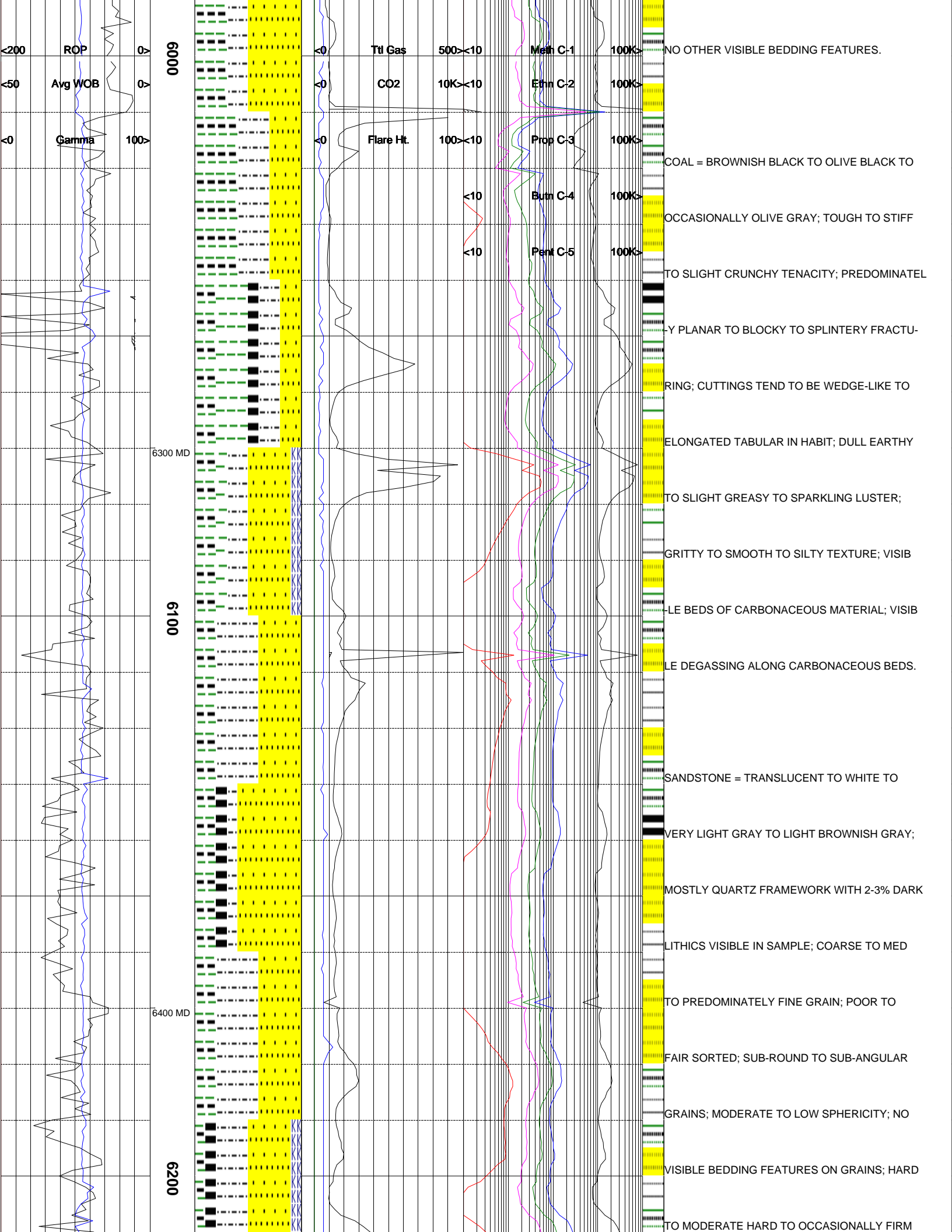
CEMENT; MATRIX SUPPORTED WITH CALCITE;

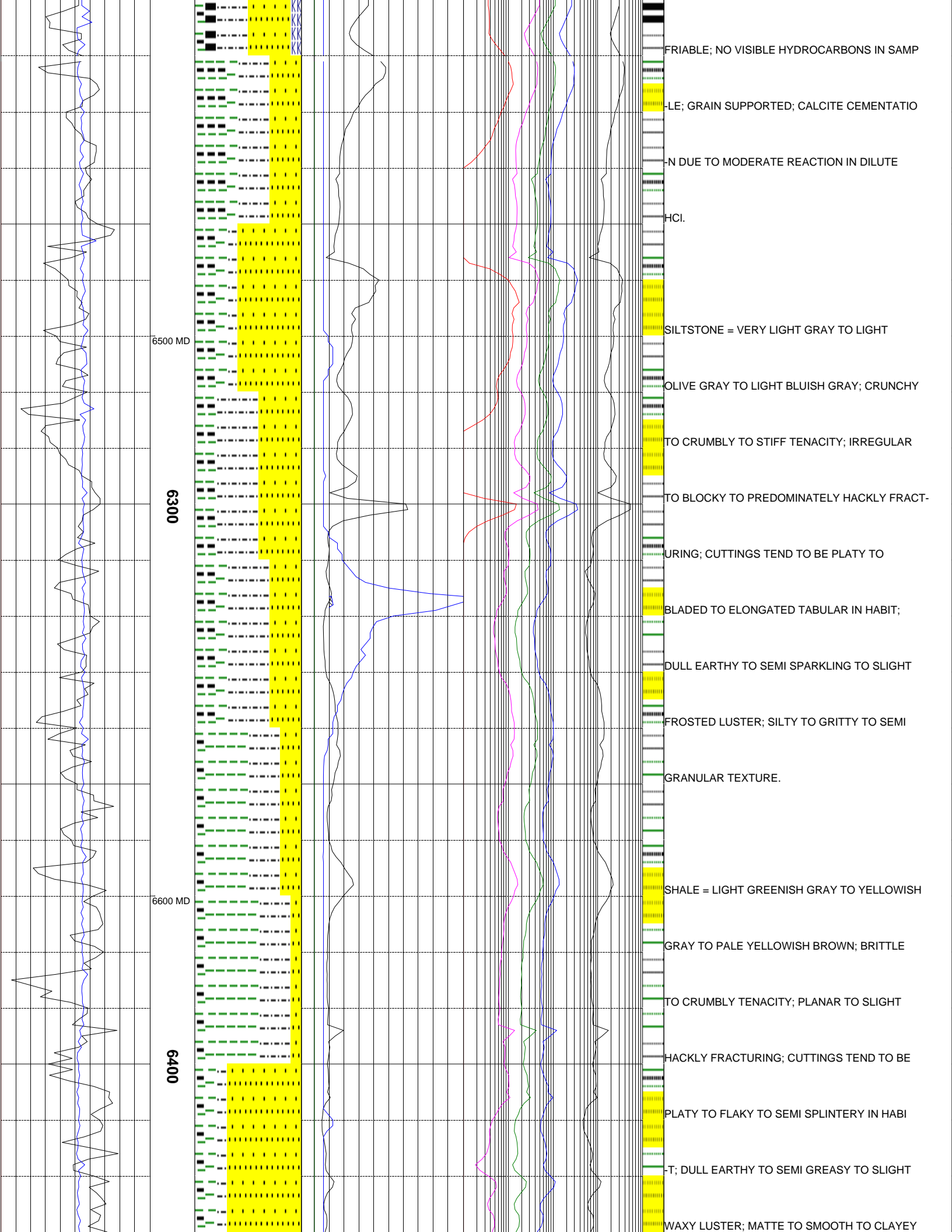
STRONG REACTION WITH DILUTE HCL; TRACE

AMOUNTS OF PYRITE PRESENT IN SAMPLE AS

AN ACCESSORY.







6500 MD

6300

6600 MD

6400

FRIABLE; NO VISIBLE HYDROCARBONS IN SAMP

LE; GRAIN SUPPORTED; CALCITE CEMENTATIO

N DUE TO MODERATE REACTION IN DILUTE

HCl.

SILTSTONE = VERY LIGHT GRAY TO LIGHT

OLIVE GRAY TO LIGHT BLUISH GRAY; CRUNCHY

TO CRUMBLY TO STIFF TENACITY; IRREGULAR

TO BLOCKY TO PREDOMINATELY HACKLY FRACT-

URING; CUTTINGS TEND TO BE PLATY TO

BLADED TO ELONGATED TABULAR IN HABIT;

DULL EARTHY TO SEMI SPARKLING TO SLIGHT

FROSTED LUSTER; SILTY TO GRITTY TO SEMI

GRANULAR TEXTURE.

SHALE = LIGHT GREENISH GRAY TO YELLOWISH

GRAY TO PALE YELLOWISH BROWN; BRITTLE

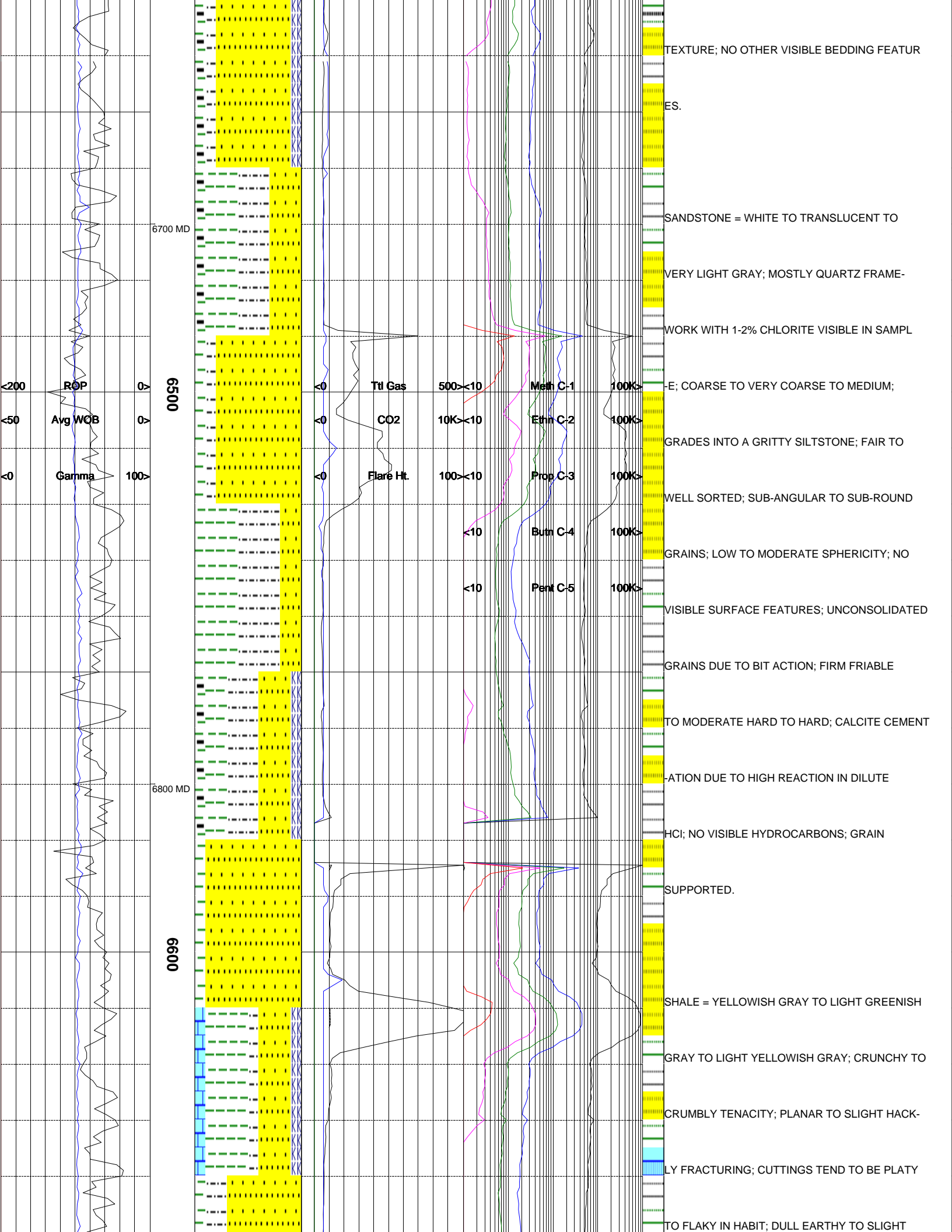
TO CRUMBLY TENACITY; PLANAR TO SLIGHT

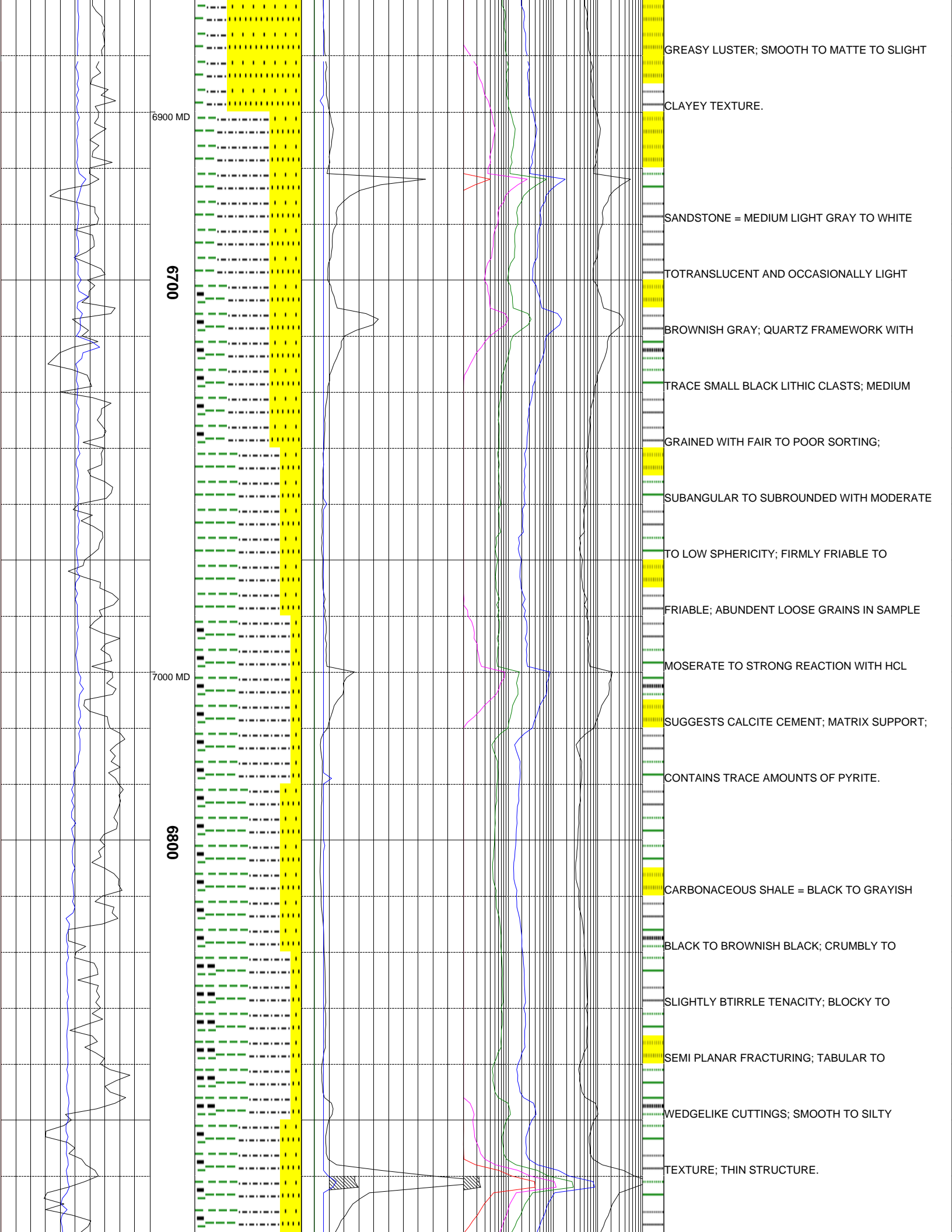
HACKLY FRACTURING; CUTTINGS TEND TO BE

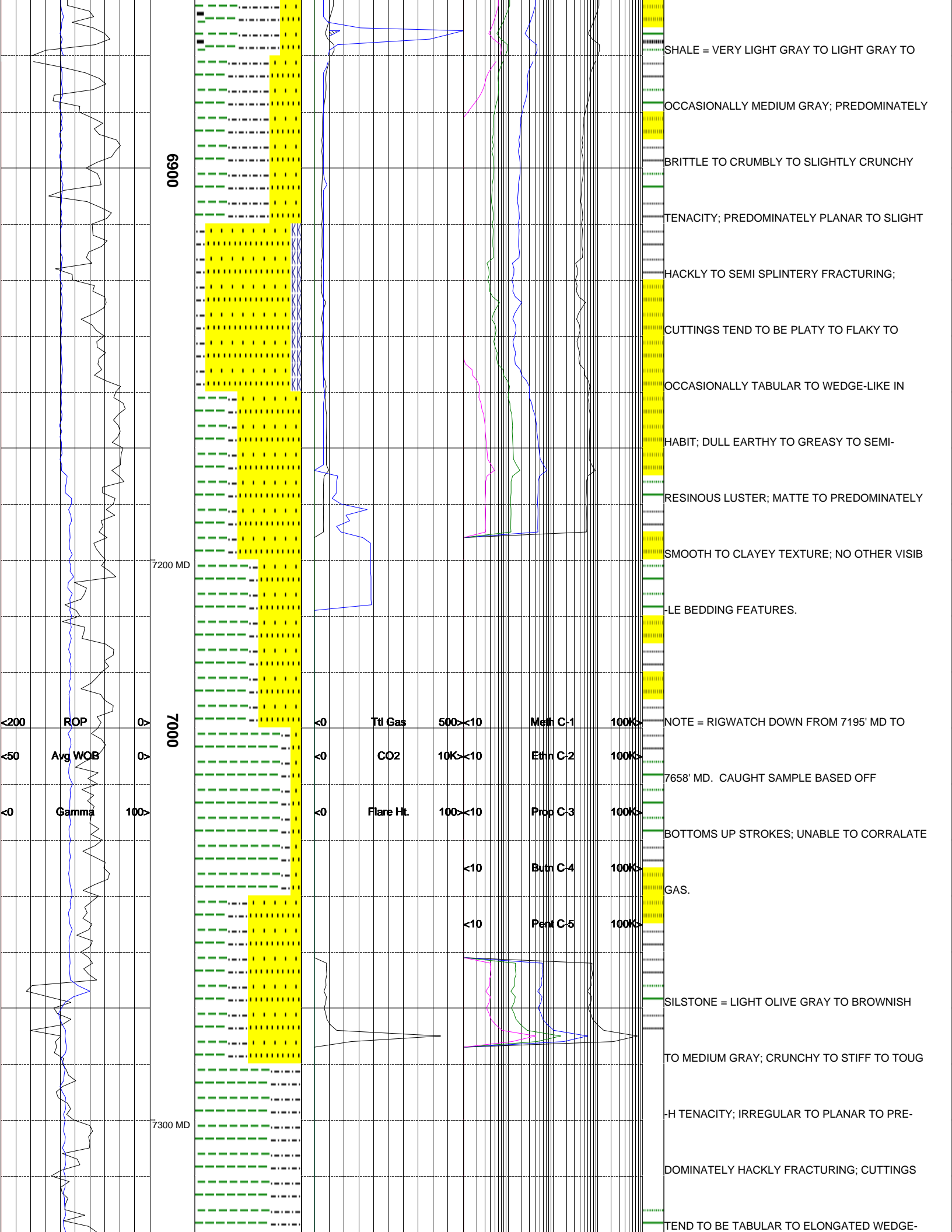
PLATY TO FLAKY TO SEMI SPLINTERY IN HABI

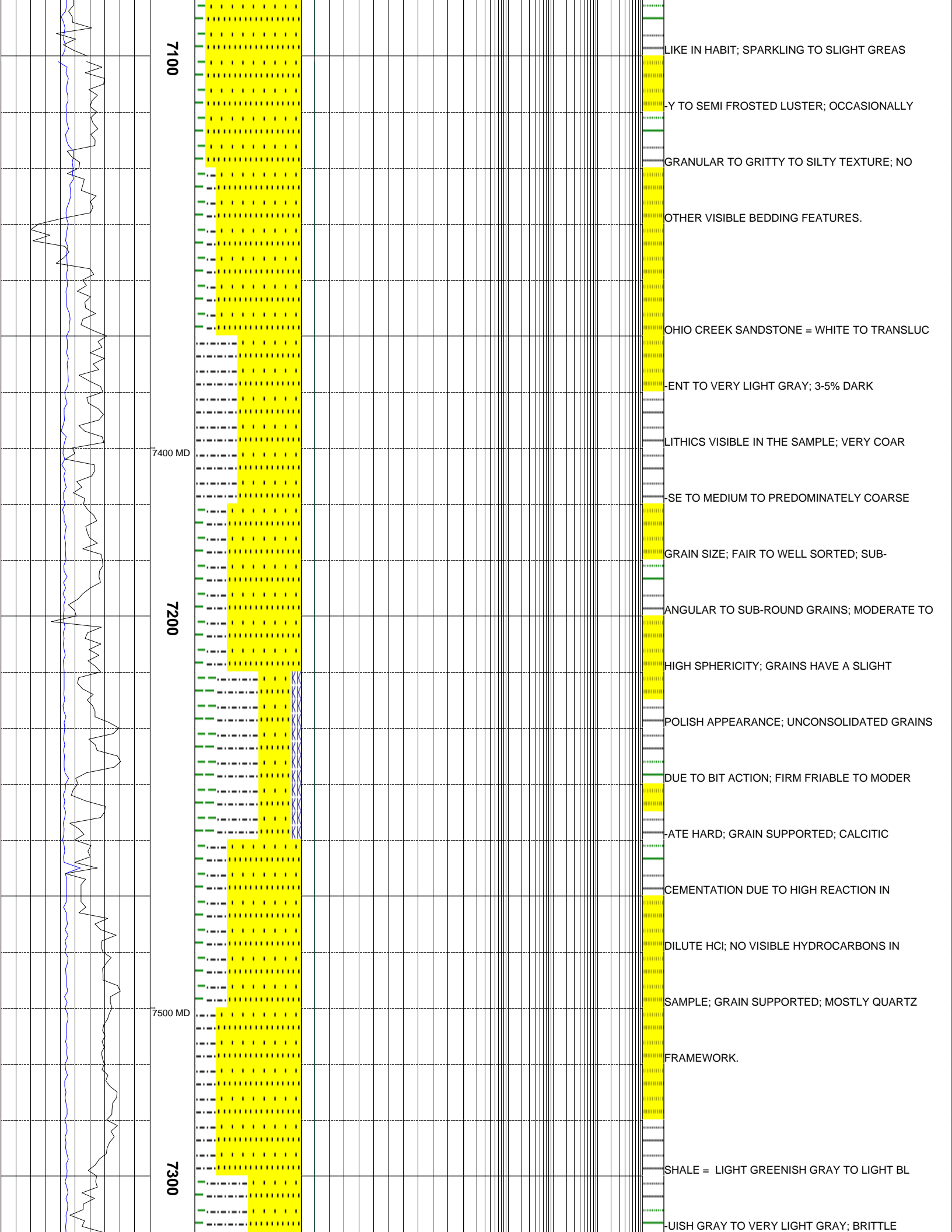
-T; DULL EARTHY TO SEMI GREASY TO SLIGHT

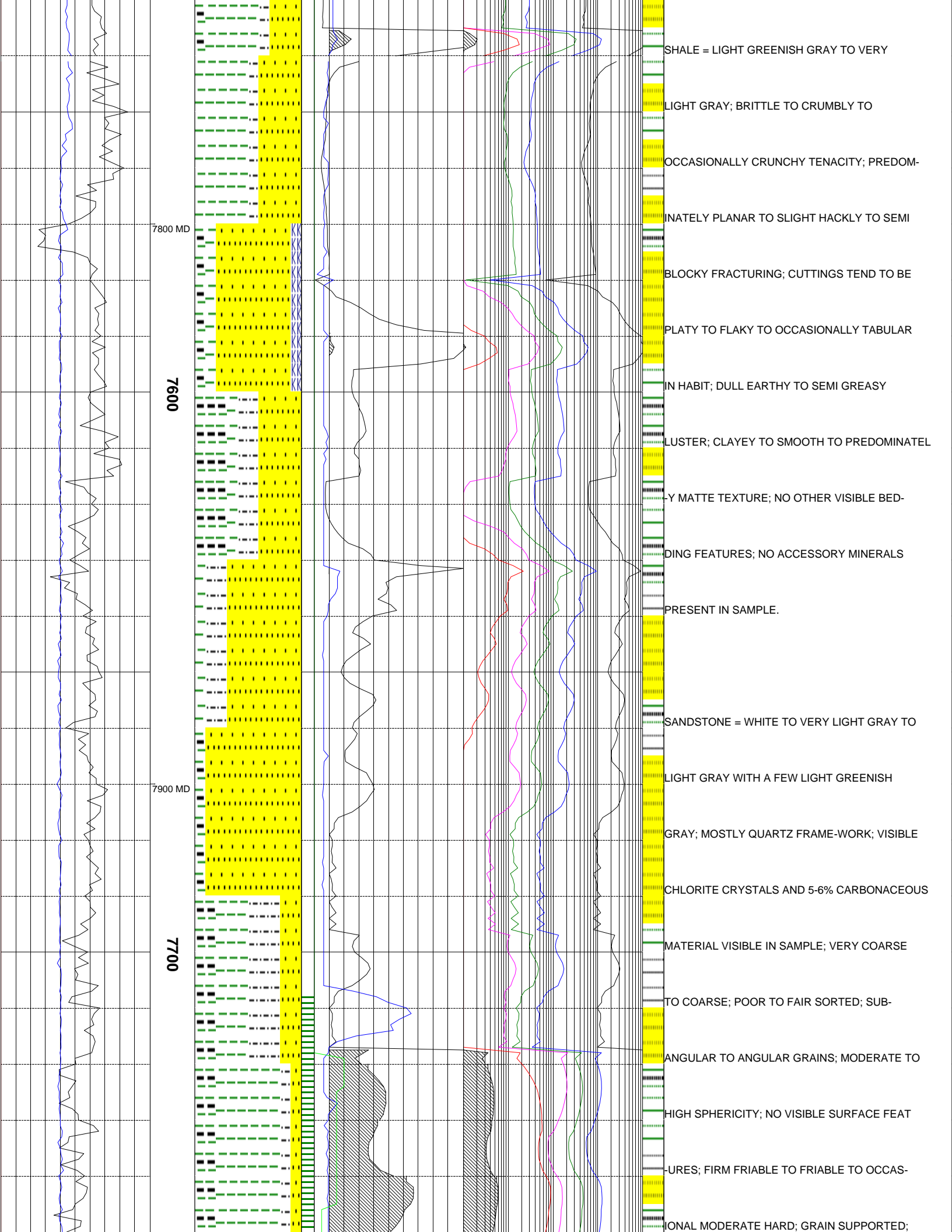
WAXY LUSTER; MATTE TO SMOOTH TO CLAYEY

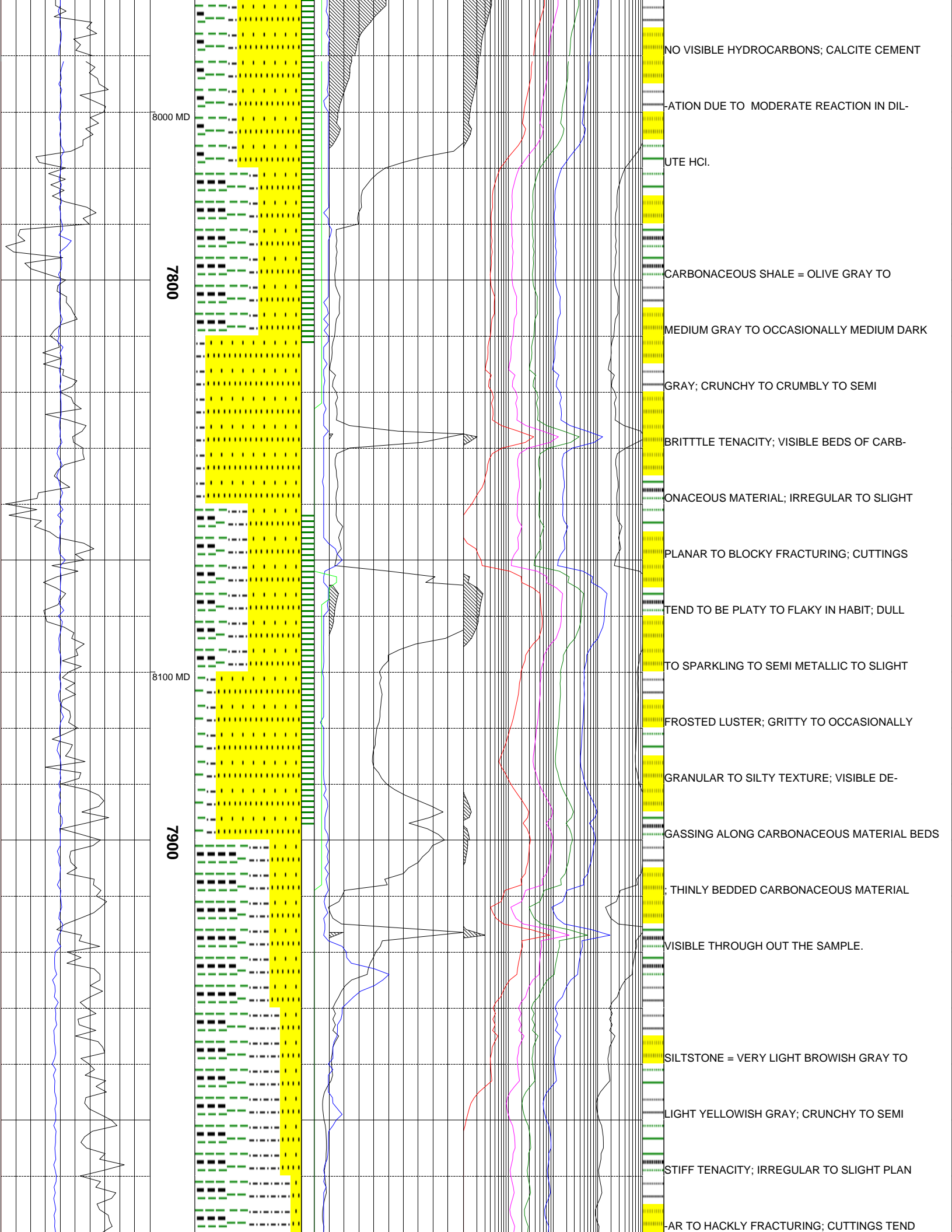


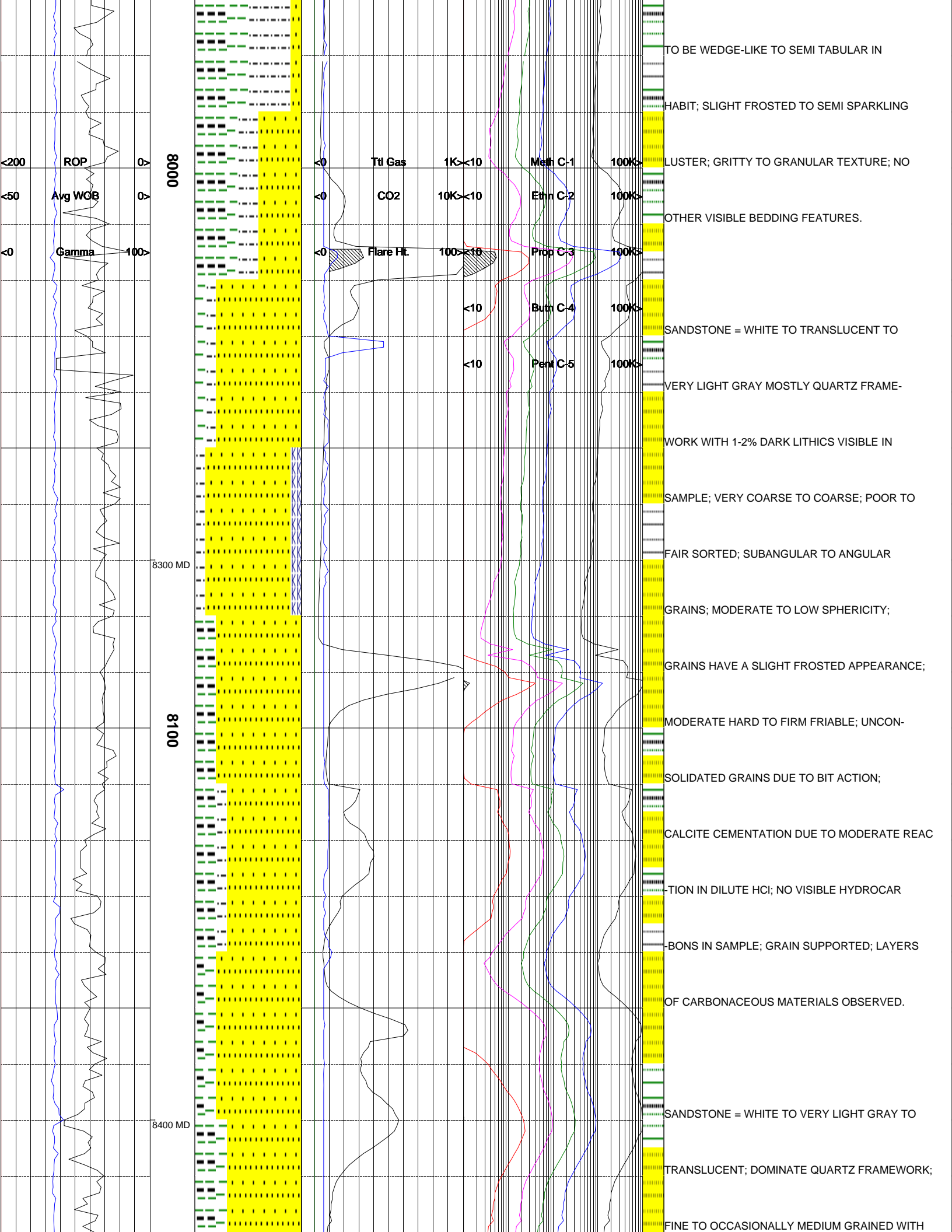












8000

8300 MD

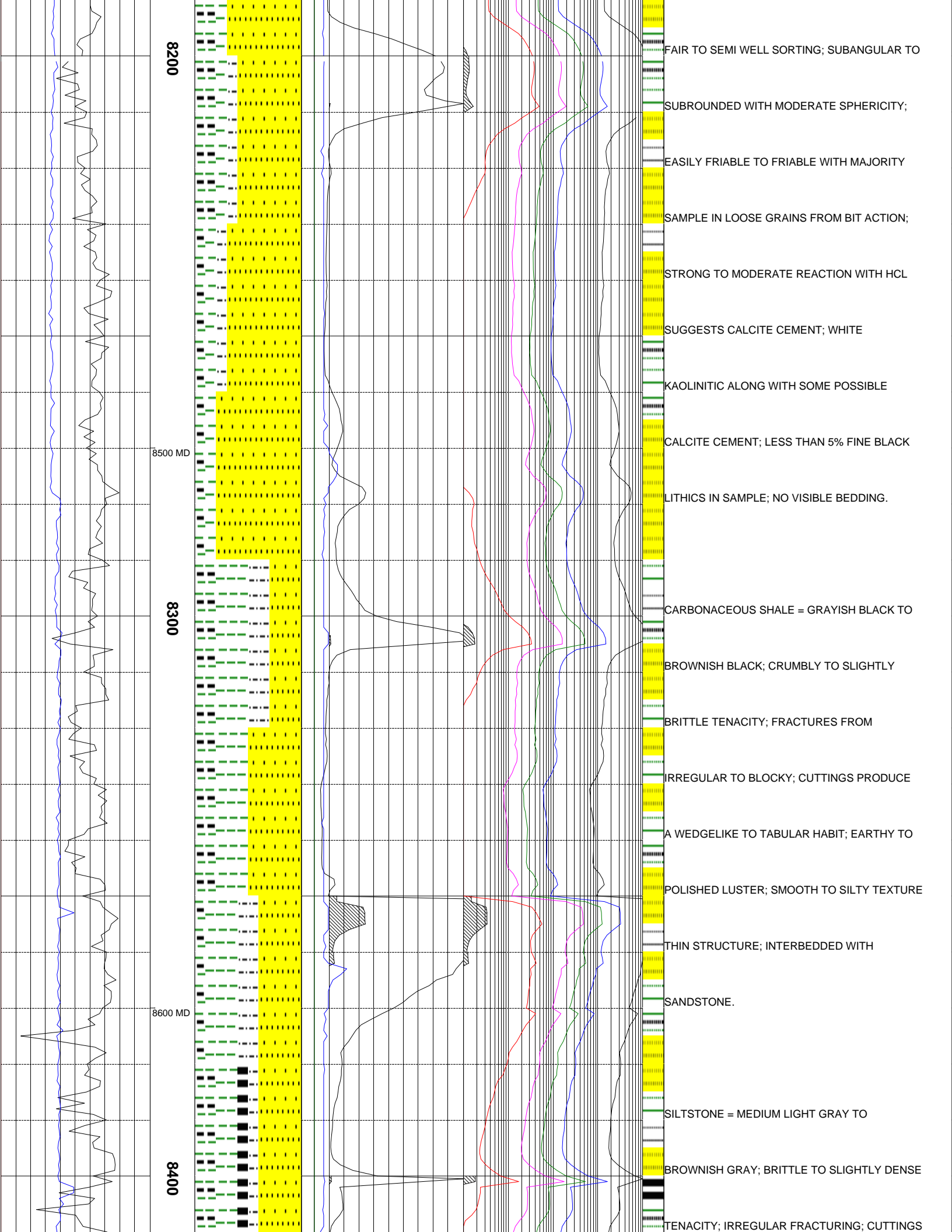
8100

8400 MD

ROP
Avg WOB
Gamma

Ttl Gas 1K < 10
CO2 10K < 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 >

TO BE WEDGE-LIKE TO SEMI TABULAR IN
HABIT; SLIGHT FROSTED TO SEMI SPARKLING
LUSTER; GRITTY TO GRANULAR TEXTURE; NO
OTHER VISIBLE BEDDING FEATURES.
SANDSTONE = WHITE TO TRANSLUCENT TO
VERY LIGHT GRAY MOSTLY QUARTZ FRAME-
WORK WITH 1-2% DARK LITHICS VISIBLE IN
SAMPLE; VERY COARSE TO COARSE; POOR TO
FAIR SORTED; SUBANGULAR TO ANGULAR
GRAINS; MODERATE TO LOW SPHERICITY;
GRAINS HAVE A SLIGHT FROSTED APPEARANCE;
MODERATE HARD TO FIRM FRIABLE; UNCON-
SOLIDATED GRAINS DUE TO BIT ACTION;
CALCITE CEMENTATION DUE TO MODERATE REAC-
TION IN DILUTE HCl; NO VISIBLE HYDROCAR-
BONS IN SAMPLE; GRAIN SUPPORTED; LAYERS
OF CARBONACEOUS MATERIALS OBSERVED.
SANDSTONE = WHITE TO VERY LIGHT GRAY TO
TRANSLUCENT; DOMINATE QUARTZ FRAMEWORK;
FINE TO OCCASIONALLY MEDIUM GRAINED WITH



8200

8500 MD

8300

8600 MD

8400

FAIR TO SEMI WELL SORTING; SUBANGULAR TO

SUBROUNDED WITH MODERATE SPHERICITY;

EASILY FRIABLE TO FRIABLE WITH MAJORITY

SAMPLE IN LOOSE GRAINS FROM BIT ACTION;

STRONG TO MODERATE REACTION WITH HCL

SUGGESTS CALCITE CEMENT; WHITE

KAOLINITIC ALONG WITH SOME POSSIBLE

CALCITE CEMENT; LESS THAN 5% FINE BLACK

LITHICS IN SAMPLE; NO VISIBLE BEDDING.

CARBONACEOUS SHALE = GRAYISH BLACK TO

BROWNISH BLACK; CRUMBLY TO SLIGHTLY

BRITTLE TENACITY; FRACTURES FROM

IRREGULAR TO BLOCKY; CUTTINGS PRODUCE

A WEDGELIKE TO TABULAR HABIT; EARTHY TO

POLISHED LUSTER; SMOOTH TO SILTY TEXTURE

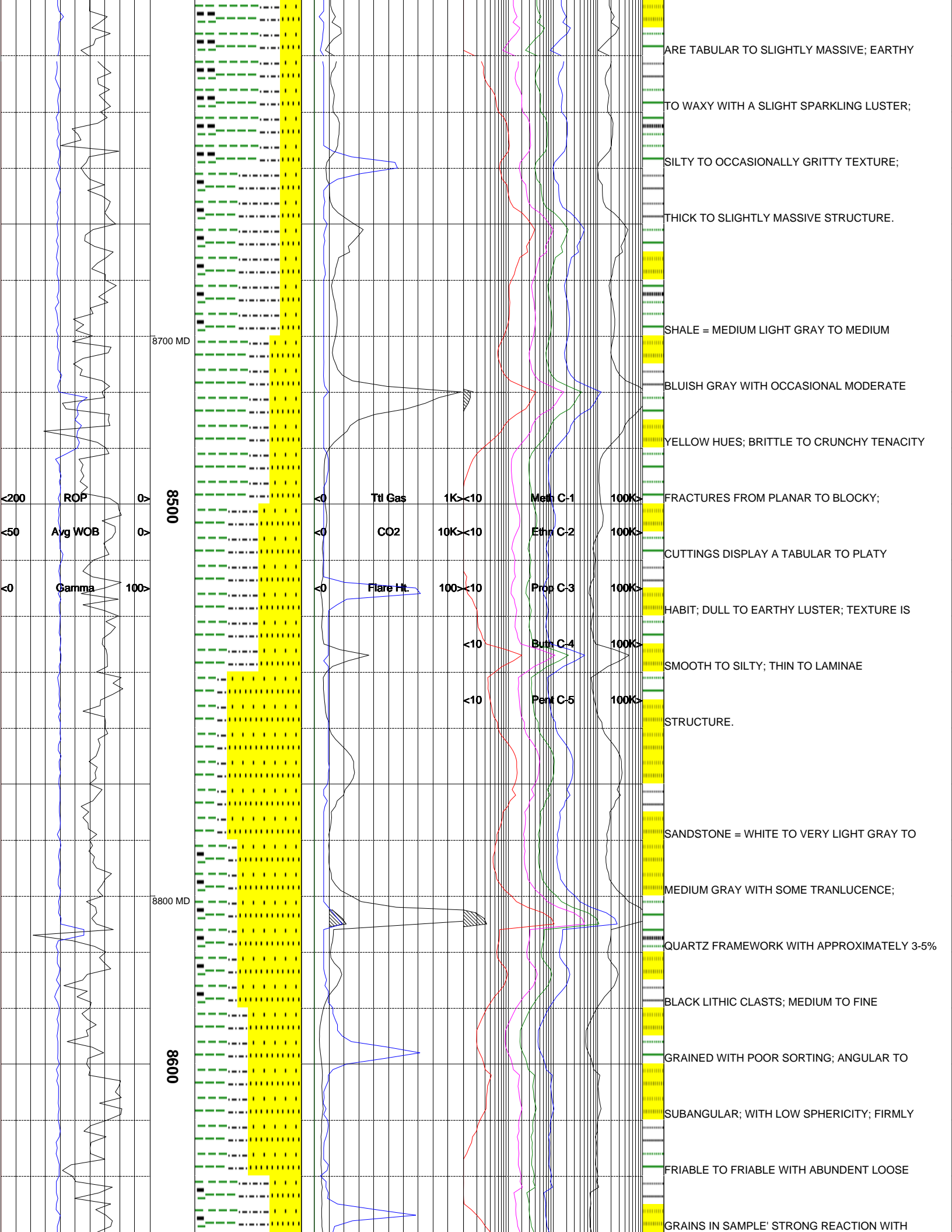
THIN STRUCTURE; INTERBEDDED WITH

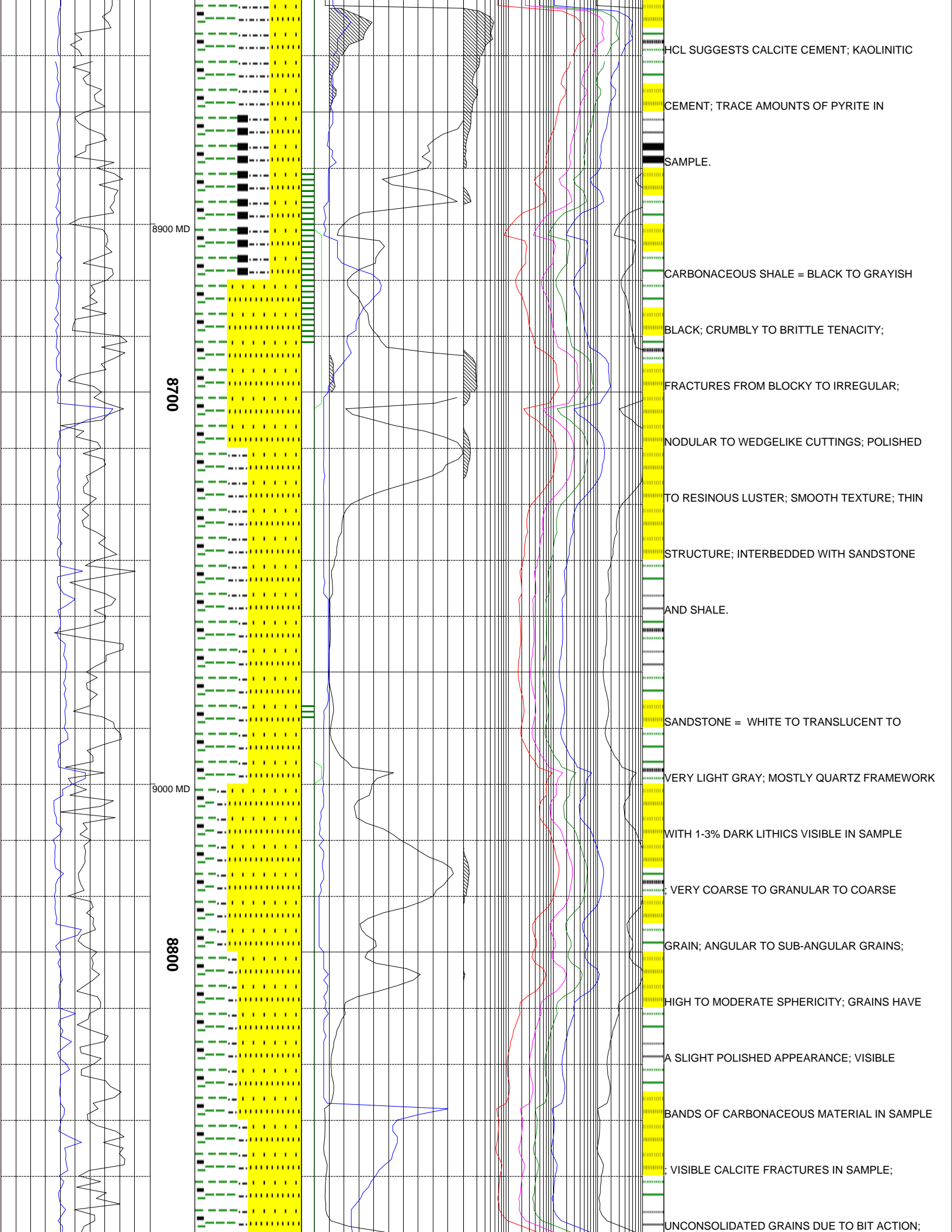
SANDSTONE.

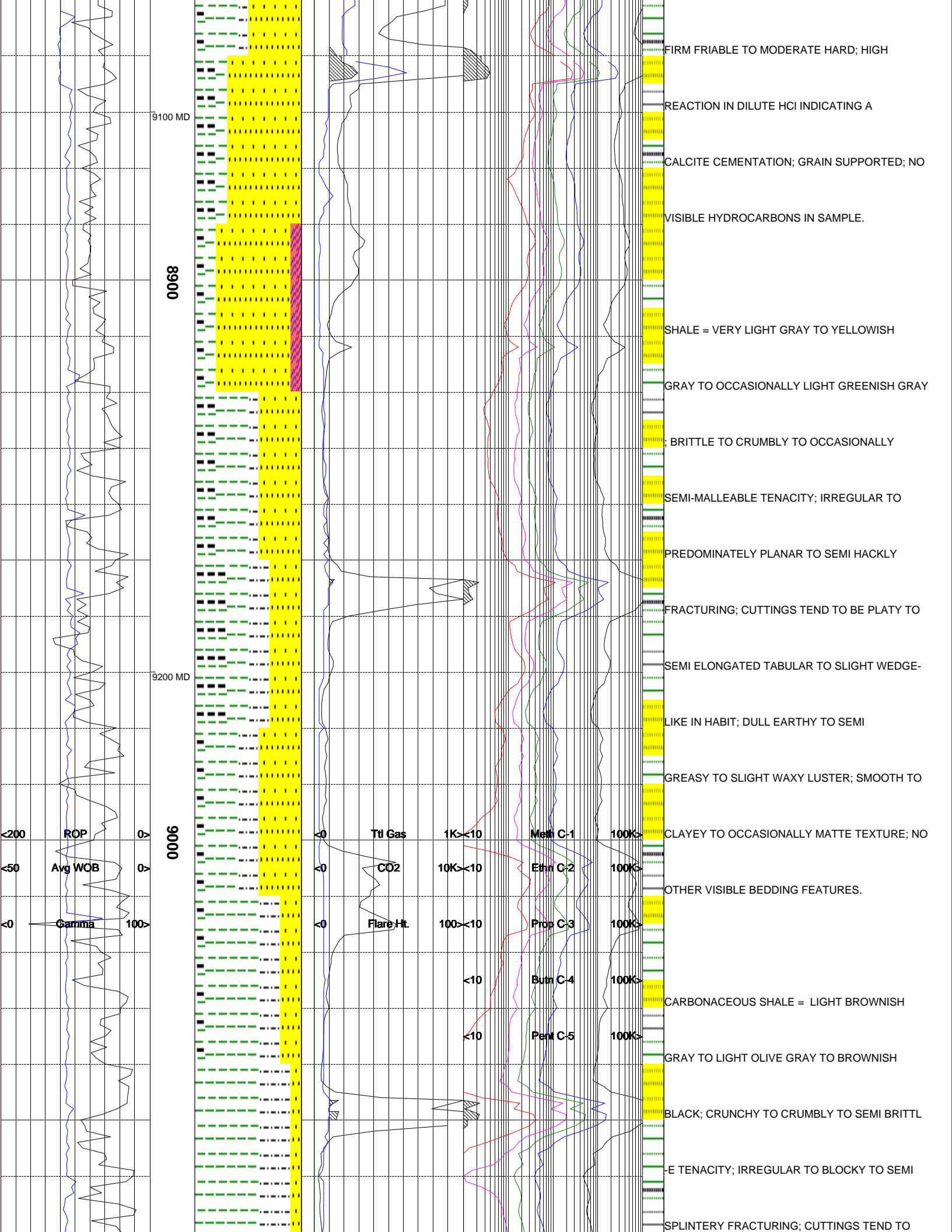
SILTSTONE = MEDIUM LIGHT GRAY TO

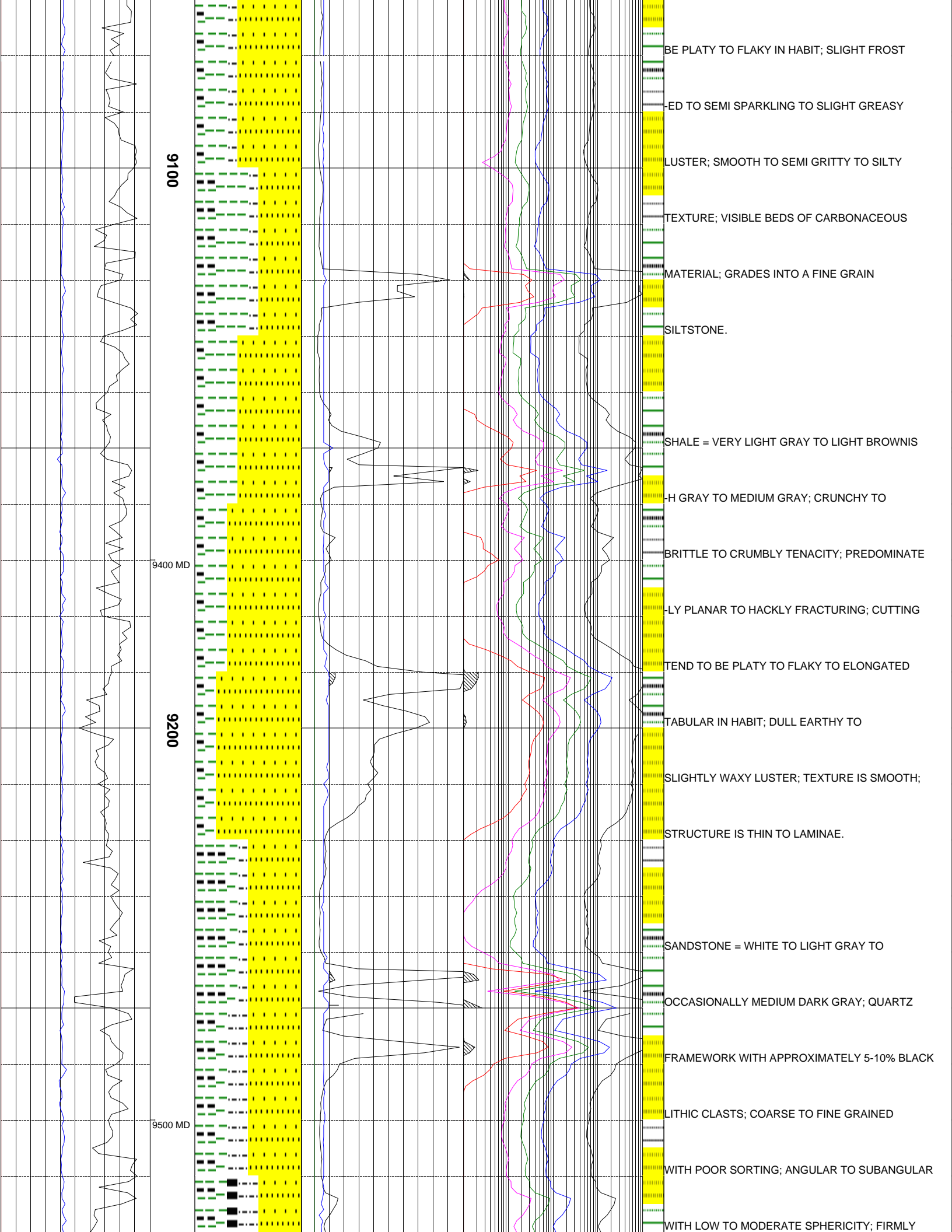
BROWNISH GRAY; BRITTLE TO SLIGHTLY DENSE

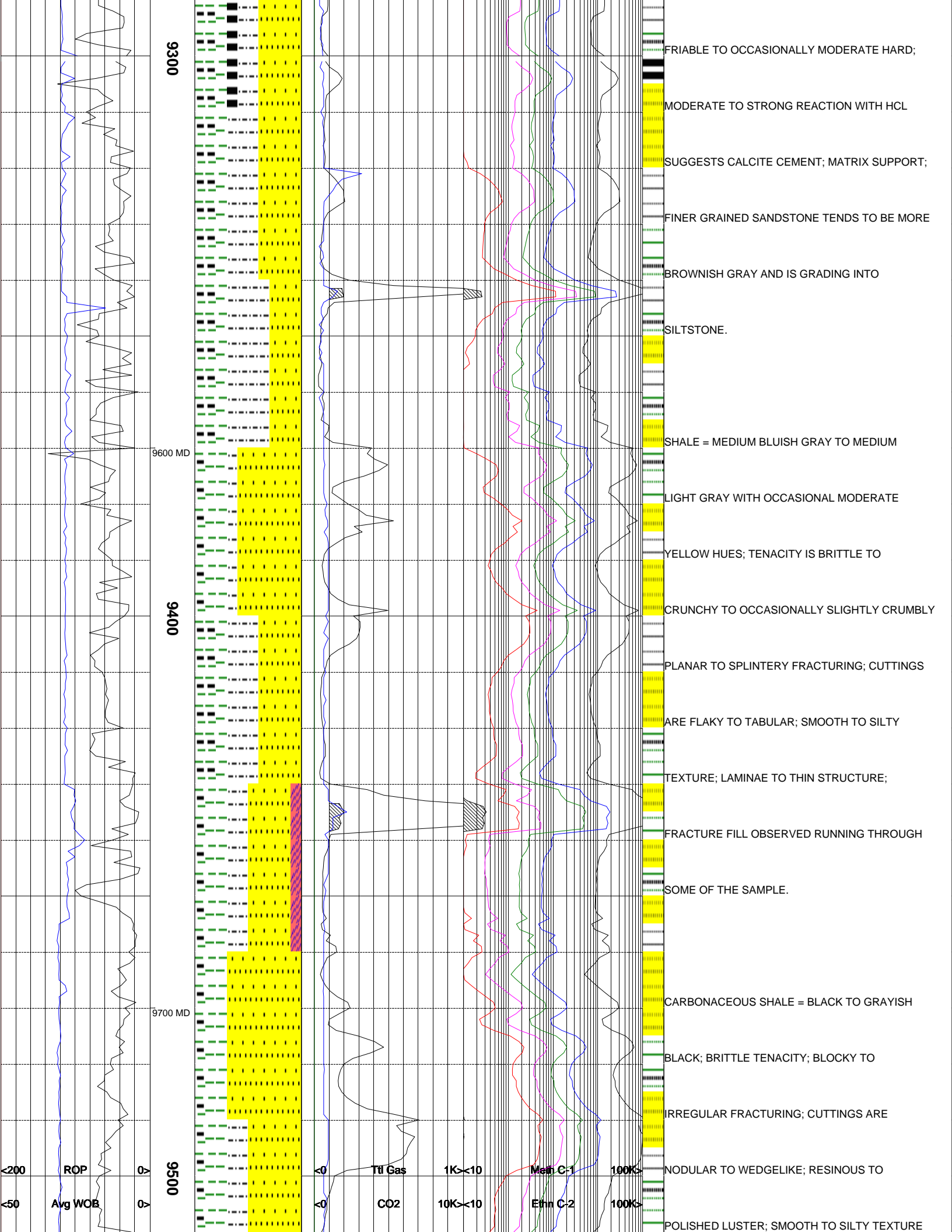
TENACITY; IRREGULAR FRACTURING; CUTTINGS











9300

9600 MD

9400

9700 MD

9500

FRIABLE TO OCCASIONALLY MODERATE HARD;

MODERATE TO STRONG REACTION WITH HCL

SUGGESTS CALCITE CEMENT; MATRIX SUPPORT;

FINER GRAINED SANDSTONE TENDS TO BE MORE

BROWNISH GRAY AND IS GRADING INTO

SILTSTONE.

SHALE = MEDIUM BLUISH GRAY TO MEDIUM

LIGHT GRAY WITH OCCASIONAL MODERATE

YELLOW HUES; TENACITY IS BRITTLE TO

CRUNCHY TO OCCASIONALLY SLIGHTLY CRUMBLY

PLANAR TO SPLINTERY FRACTURING; CUTTINGS

ARE FLAKY TO TABULAR; SMOOTH TO SILTY

TEXTURE; LAMINAE TO THIN STRUCTURE;

FRACTURE FILL OBSERVED RUNNING THROUGH

SOME OF THE SAMPLE.

CARBONACEOUS SHALE = BLACK TO GRAYISH

BLACK; BRITTLE TENACITY; BLOCKY TO

IRREGULAR FRACTURING; CUTTINGS ARE

NODULAR TO WEDGELIKE; RESINOUS TO

POLISHED LUSTER; SMOOTH TO SILTY TEXTURE

<math>< 200</math>

ROP

Δ

9500

<math>< 50</math>

Avg WOB

Δ

Tft Gas

1K<math>< 10</math>

Mein C-1

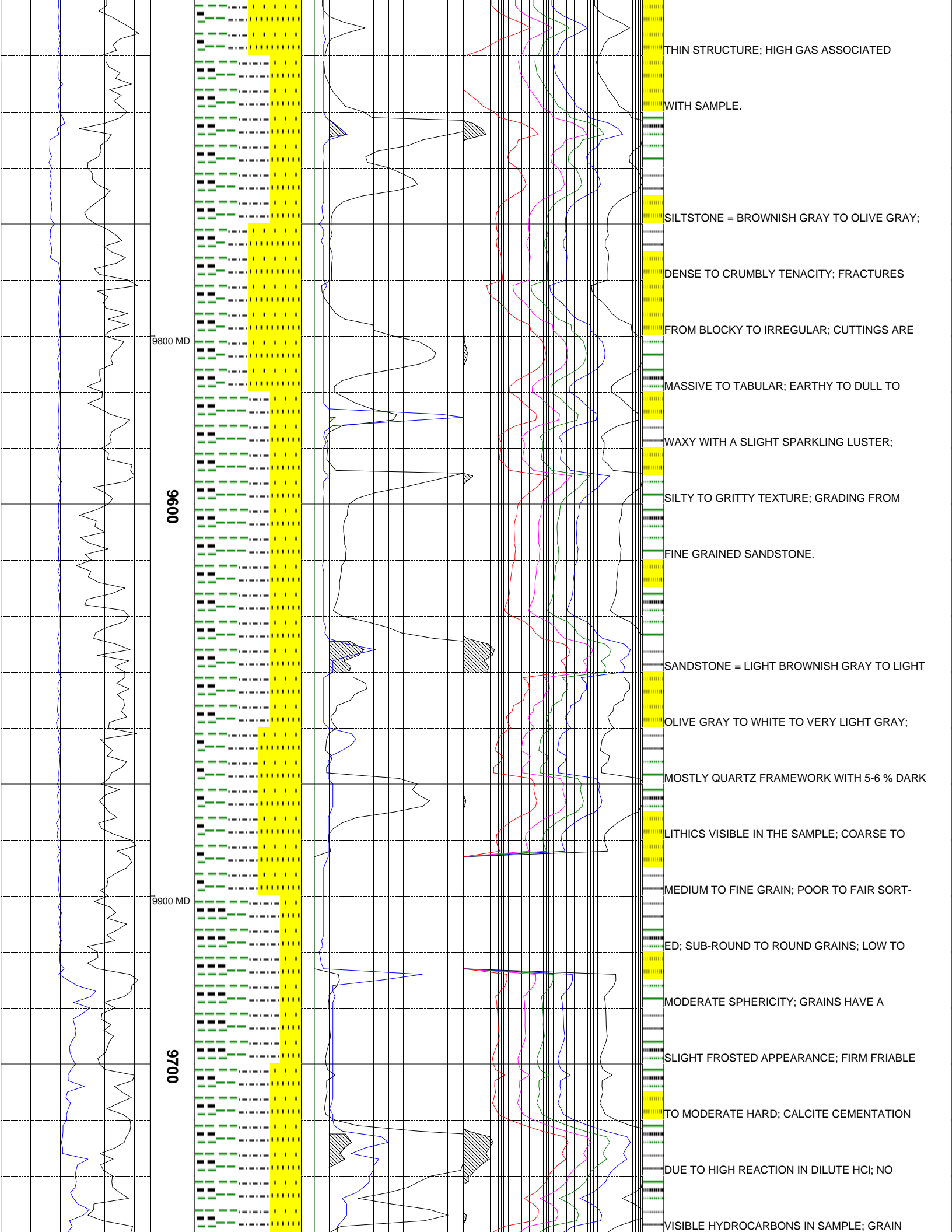
100K>

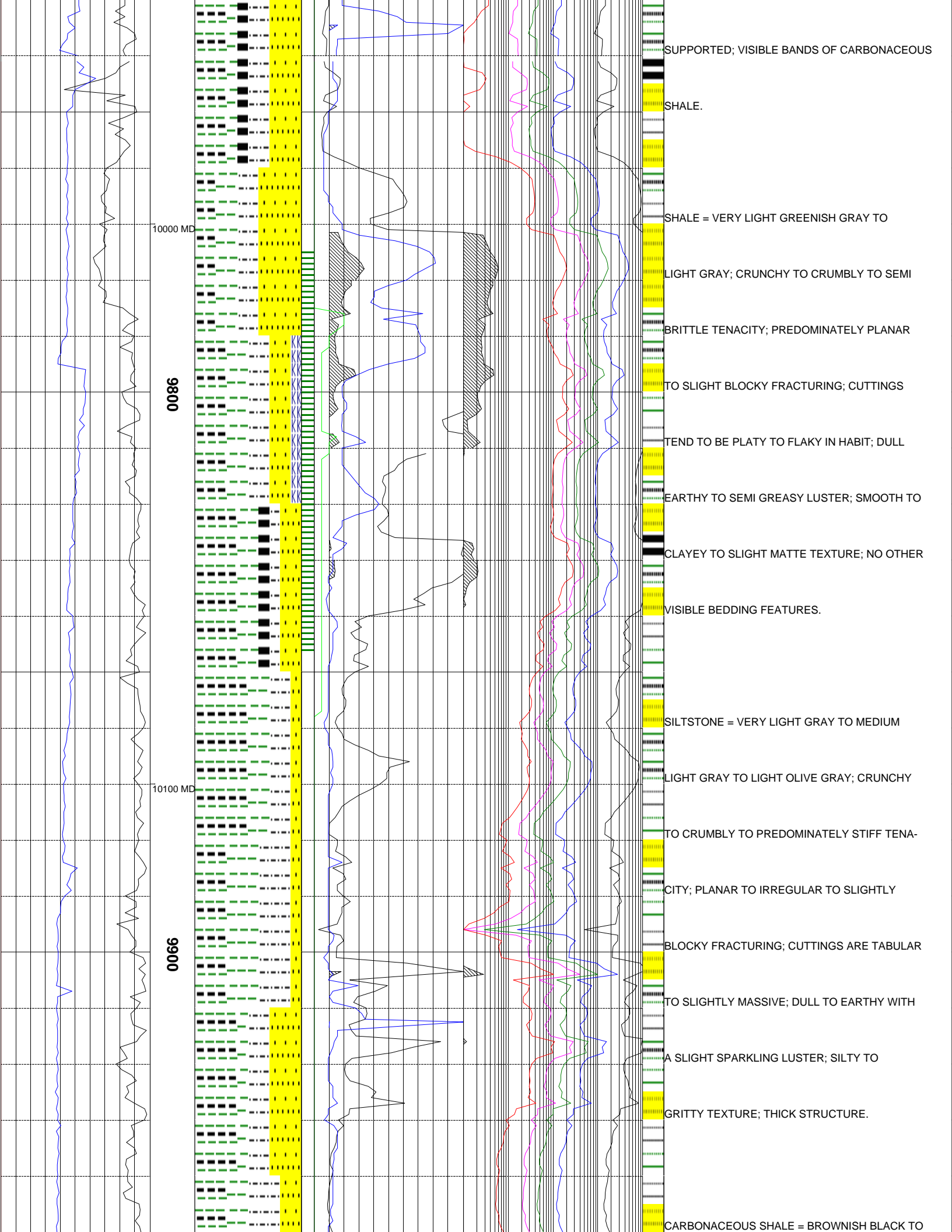
CO2

10K<math>< 10</math>

Ethn C-2

100K>

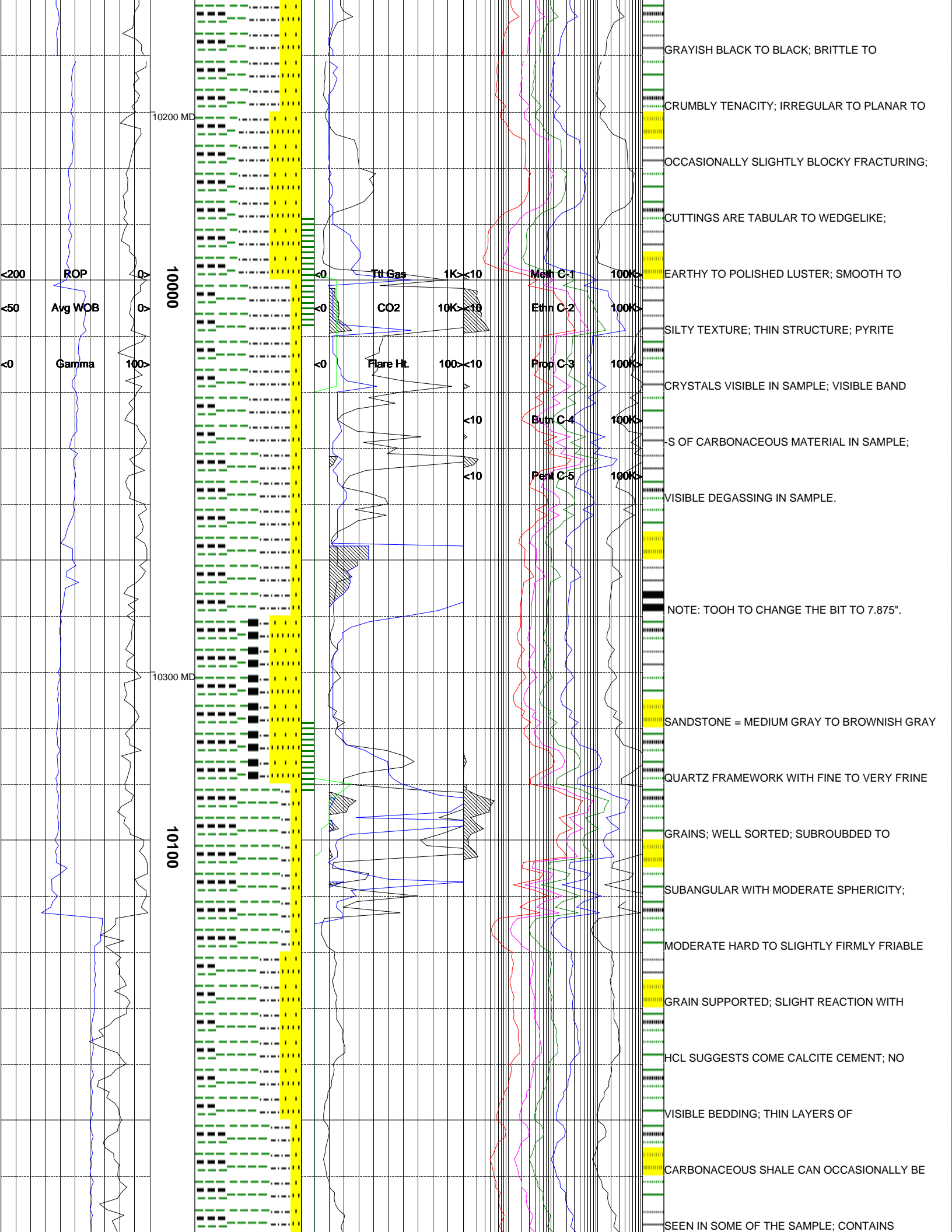




0086
10000 MD

0066
10100 MD

- SUPPORTED; VISIBLE BANDS OF CARBONACEOUS SHALE.
- SHALE.
- SHALE = VERY LIGHT GREENISH GRAY TO LIGHT GRAY; CRUNCHY TO CRUMBLY TO SEMI BRITTLE TENACITY; PREDOMINATELY PLANAR TO SLIGHT BLOCKY FRACTURING; CUTTINGS TEND TO BE PLATY TO FLAKY IN HABIT; DULL EARTHY TO SEMI GREASY LUSTER; SMOOTH TO CLAYEY TO SLIGHT MATTE TEXTURE; NO OTHER VISIBLE BEDDING FEATURES.
- SILTSTONE = VERY LIGHT GRAY TO MEDIUM LIGHT GRAY TO LIGHT OLIVE GRAY; CRUNCHY TO CRUMBLY TO PREDOMINATELY STIFF TENACITY; PLANAR TO IRREGULAR TO SLIGHTLY BLOCKY FRACTURING; CUTTINGS ARE TABULAR TO SLIGHTLY MASSIVE; DULL TO EARTHY WITH A SLIGHT SPARKLING LUSTER; SILTY TO GRITTY TEXTURE; THICK STRUCTURE.
- CARBONACEOUS SHALE = BROWNISH BLACK TO



10200 MD

10000

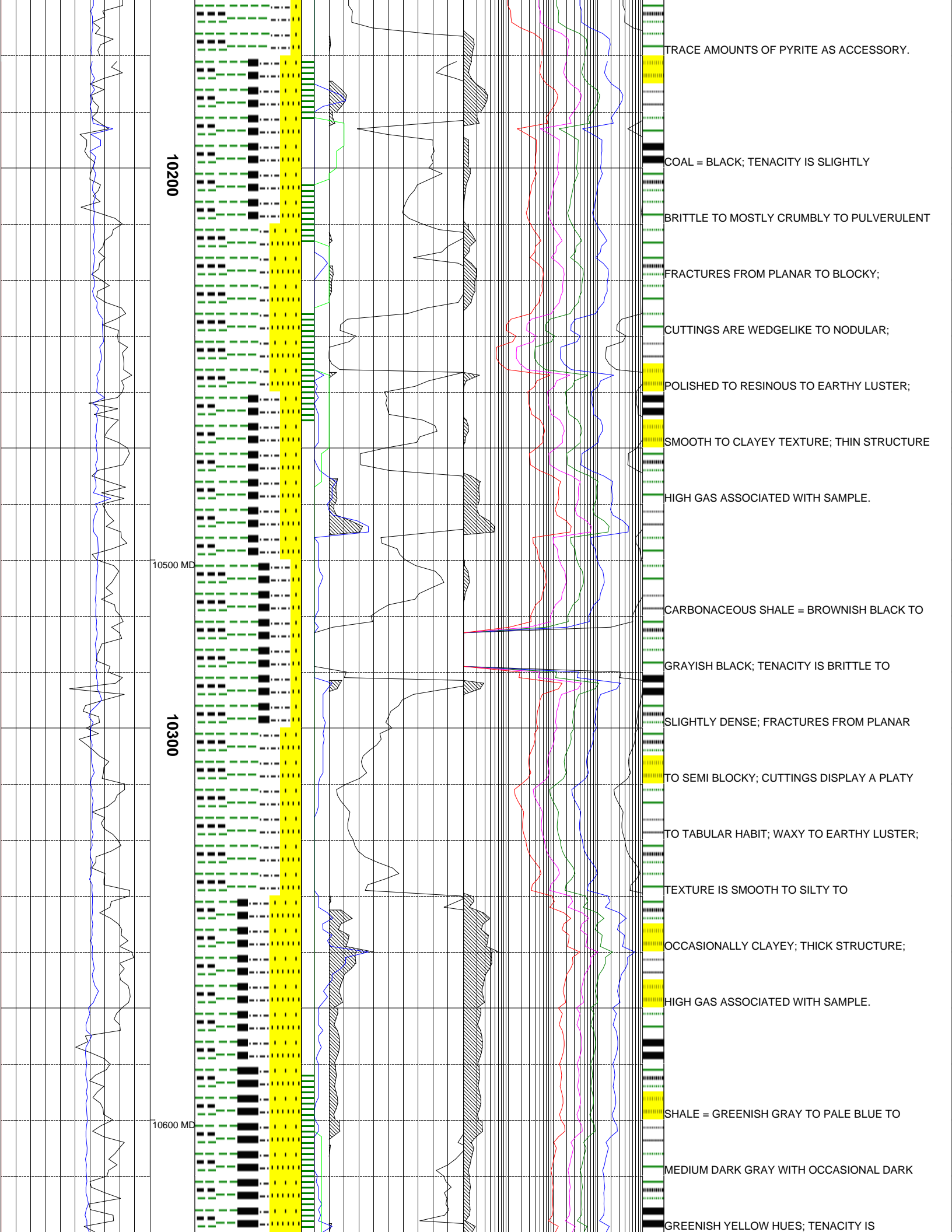
10300 MD

10100

<200 ROP
<50 Avg WOB
<0 Gamma

Tit Gas 1K<10
CO2 10K<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>

GRAYISH BLACK TO BLACK; BRITTLE TO
CRUMBLY TENACITY; IRREGULAR TO PLANAR TO
OCCASIONALLY SLIGHTLY BLOCKY FRACTURING;
CUTTINGS ARE TABULAR TO WEDGELIKE;
EARTHY TO POLISHED LUSTER; SMOOTH TO
SILTY TEXTURE; THIN STRUCTURE; PYRITE
CRYSTALS VISIBLE IN SAMPLE; VISIBLE BAND
S OF CARBONACEOUS MATERIAL IN SAMPLE;
VISIBLE DEGASSING IN SAMPLE.
NOTE: TOOH TO CHANGE THE BIT TO 7.875".
SANDSTONE = MEDIUM GRAY TO BROWNISH GRAY
QUARTZ FRAMEWORK WITH FINE TO VERY FRINE
GRAINS; WELL SORTED; SUBROUBDED TO
SUBANGULAR WITH MODERATE SPHERICITY;
MODERATE HARD TO SLIGHTLY FIRMLY FRIABLE
GRAIN SUPPORTED; SLIGHT REACTION WITH
HCL SUGGESTS COME CALCITE CEMENT; NO
VISIBLE BEDDING; THIN LAYERS OF
CARBONACEOUS SHALE CAN OCCASIONALLY BE
SEEN IN SOME OF THE SAMPLE; CONTAINS



10200

10500 MD

10300

10600 MD

TRACE AMOUNTS OF PYRITE AS ACCESSORY.

COAL = BLACK; TENACITY IS SLIGHTLY

BRITTLE TO MOSTLY CRUMBLY TO PULVERULENT

FRACTURES FROM PLANAR TO BLOCKY;

CUTTINGS ARE WEDGELIKE TO NODULAR;

POLISHED TO RESINOUS TO EARTHY LUSTER;

SMOOTH TO CLAYEY TEXTURE; THIN STRUCTURE

HIGH GAS ASSOCIATED WITH SAMPLE.

CARBONACEOUS SHALE = BROWNISH BLACK TO

GRAYISH BLACK; TENACITY IS BRITTLE TO

SLIGHTLY DENSE; FRACTURES FROM PLANAR

TO SEMI BLOCKY; CUTTINGS DISPLAY A PLATY

TO TABULAR HABIT; WAXY TO EARTHY LUSTER;

TEXTURE IS SMOOTH TO SILTY TO

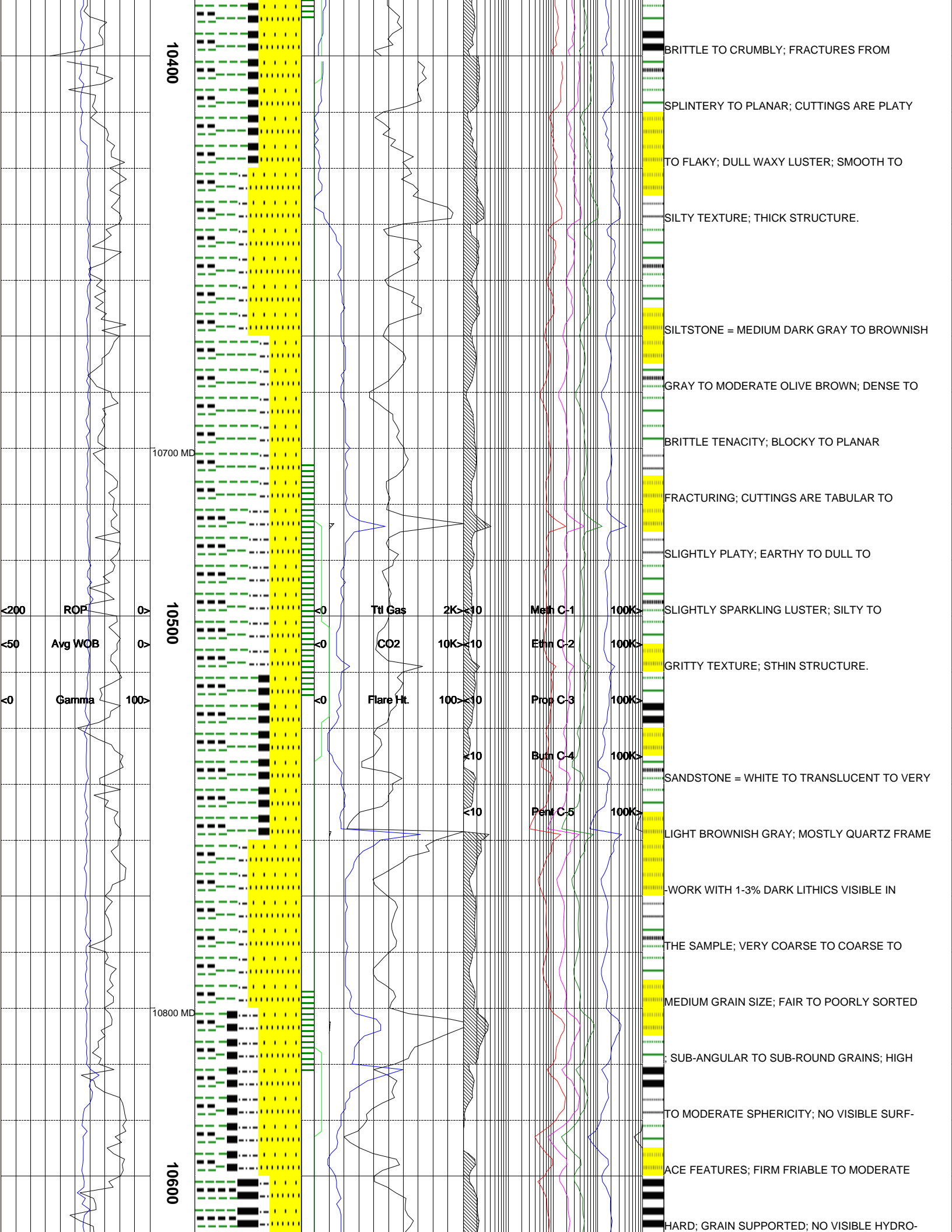
OCCASIONALLY CLAYEY; THICK STRUCTURE;

HIGH GAS ASSOCIATED WITH SAMPLE.

SHALE = GREENISH GRAY TO PALE BLUE TO

MEDIUM DARK GRAY WITH OCCASIONAL DARK

GREENISH YELLOW HUES; TENACITY IS



10400

10700 MD

10500

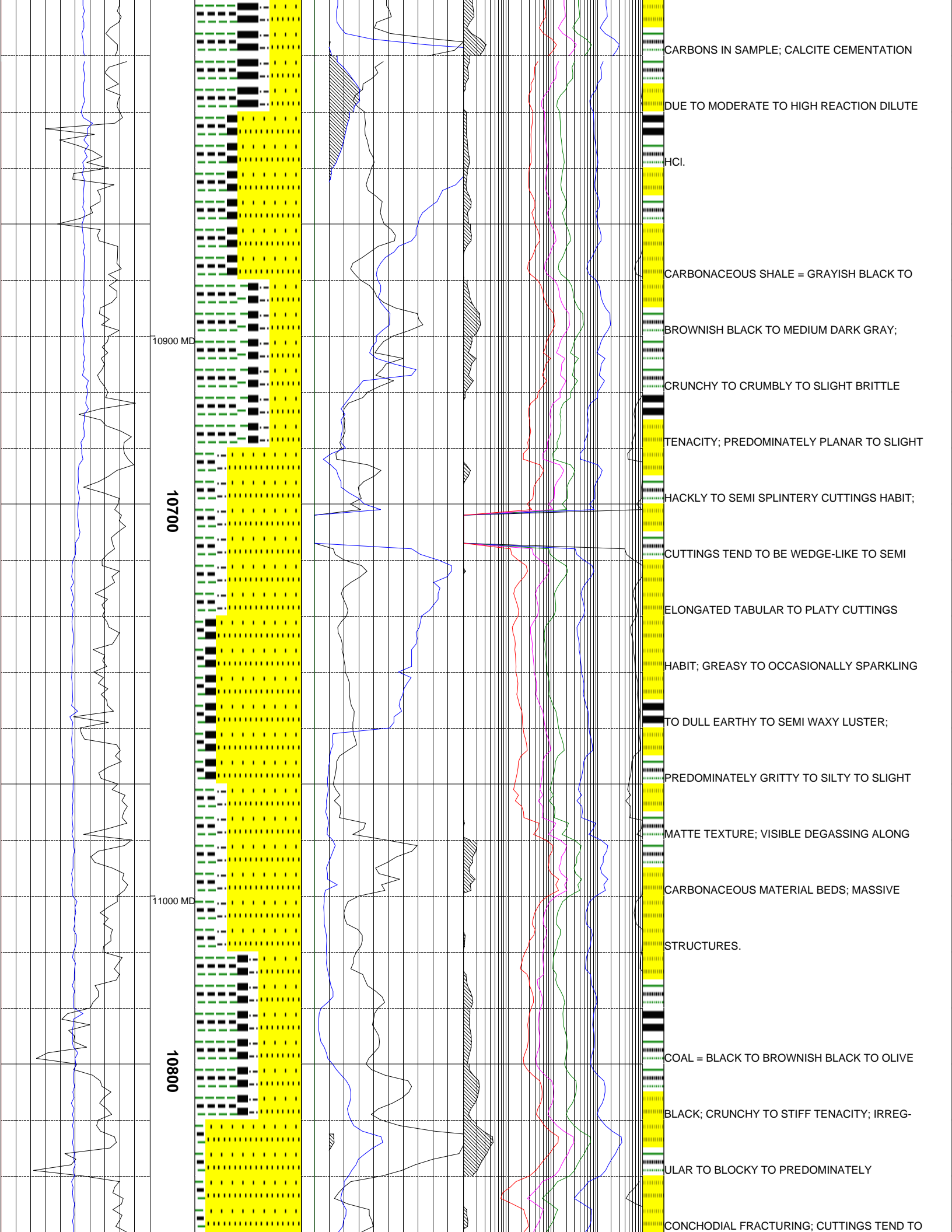
10800 MD

10600

<200 ROP
<50 Avg WOB
<0 Gamma

Ttl Gas 2K <10
CO2 10K <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 <

BRITTLE TO CRUMBLY; FRACTURES FROM
SPLINTERY TO PLANAR; CUTTINGS ARE PLATY
TO FLAKY; DULL WAXY LUSTER; SMOOTH TO
SILTY TEXTURE; THICK STRUCTURE.
SILTSTONE = MEDIUM DARK GRAY TO BROWNISH
GRAY TO MODERATE OLIVE BROWN; DENSE TO
BRITTLE TENACITY; BLOCKY TO PLANAR
FRACTURING; CUTTINGS ARE TABULAR TO
SLIGHTLY PLATY; EARTHY TO DULL TO
SLIGHTLY SPARKLING LUSTER; SILTY TO
GRITTY TEXTURE; STHIN STRUCTURE.
SANDSTONE = WHITE TO TRANSLUCENT TO VERY
LIGHT BROWNISH GRAY; MOSTLY QUARTZ FRAME
WORK WITH 1-3% DARK LITHICS VISIBLE IN
THE SAMPLE; VERY COARSE TO COARSE TO
MEDIUM GRAIN SIZE; FAIR TO POORLY SORTED
SUB-ANGULAR TO SUB-ROUND GRAINS; HIGH
TO MODERATE SPHERICITY; NO VISIBLE SURF-
FACE FEATURES; FIRM FRIABLE TO MODERATE
HARD; GRAIN SUPPORTED; NO VISIBLE HYDRO-



CARBONS IN SAMPLE; CALCITE CEMENTATION

DUE TO MODERATE TO HIGH REACTION DILUTE

HCl.

CARBONACEOUS SHALE = GRAYISH BLACK TO

BROWNISH BLACK TO MEDIUM DARK GRAY;

CRUNCHY TO CRUMBLY TO SLIGHT BRITTLE

TENACITY; PREDOMINATELY PLANAR TO SLIGHT

HACKLY TO SEMI SPLINTERY CUTTINGS HABIT;

CUTTINGS TEND TO BE WEDGE-LIKE TO SEMI

ELONGATED TABULAR TO PLATY CUTTINGS

HABIT; GREASY TO OCCASIONALLY SPARKLING

TO DULL EARTHY TO SEMI WAXY LUSTER;

PREDOMINATELY GRITTY TO SILTY TO SLIGHT

MATTE TEXTURE; VISIBLE DEGASSING ALONG

CARBONACEOUS MATERIAL BEDS; MASSIVE

STRUCTURES.

COAL = BLACK TO BROWNISH BLACK TO OLIVE

BLACK; CRUNCHY TO STIFF TENACITY; IRREG-

ULAR TO BLOCKY TO PREDOMINATELY

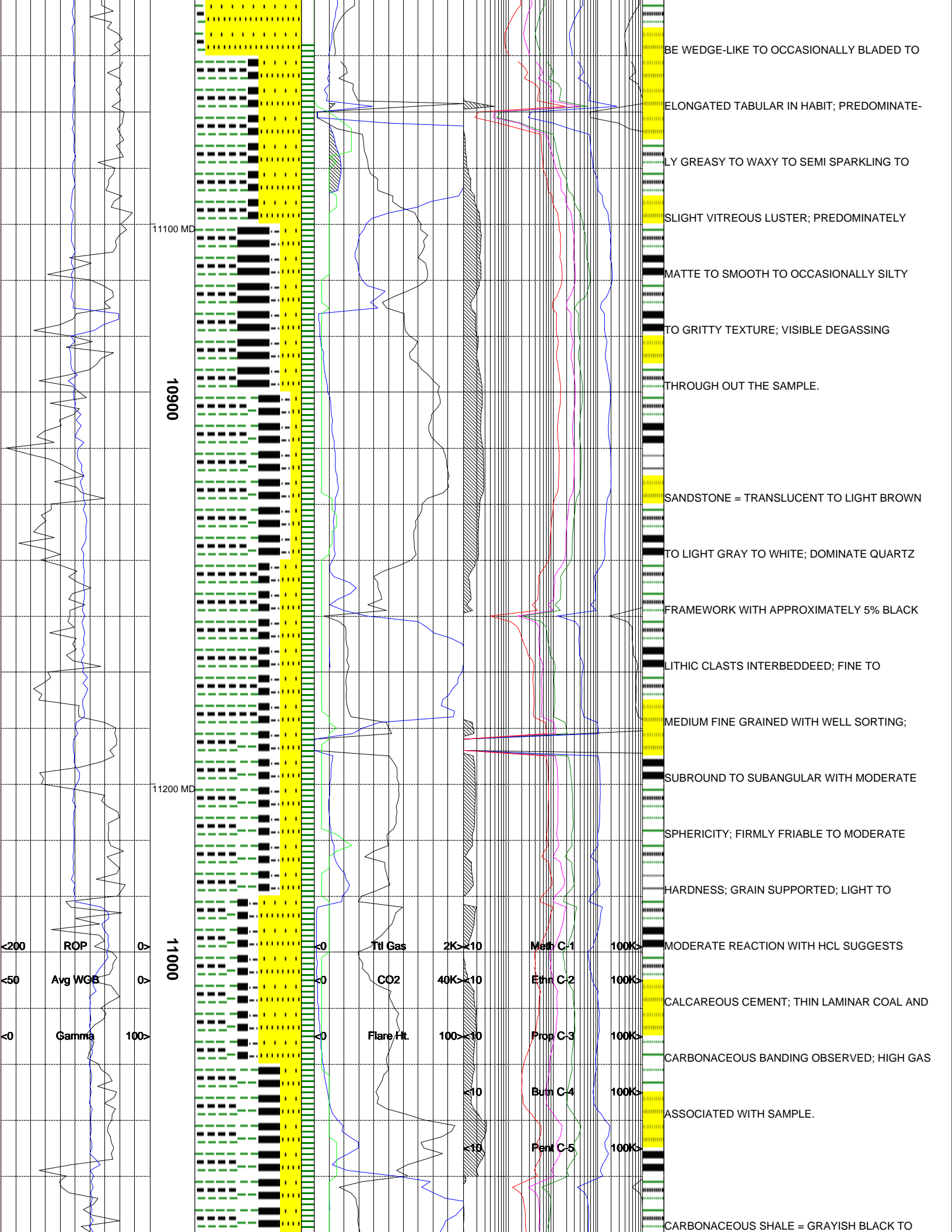
CONCHODIAL FRACTURING; CUTTINGS TEND TO

10900 MD

10700

11000 MD

10800

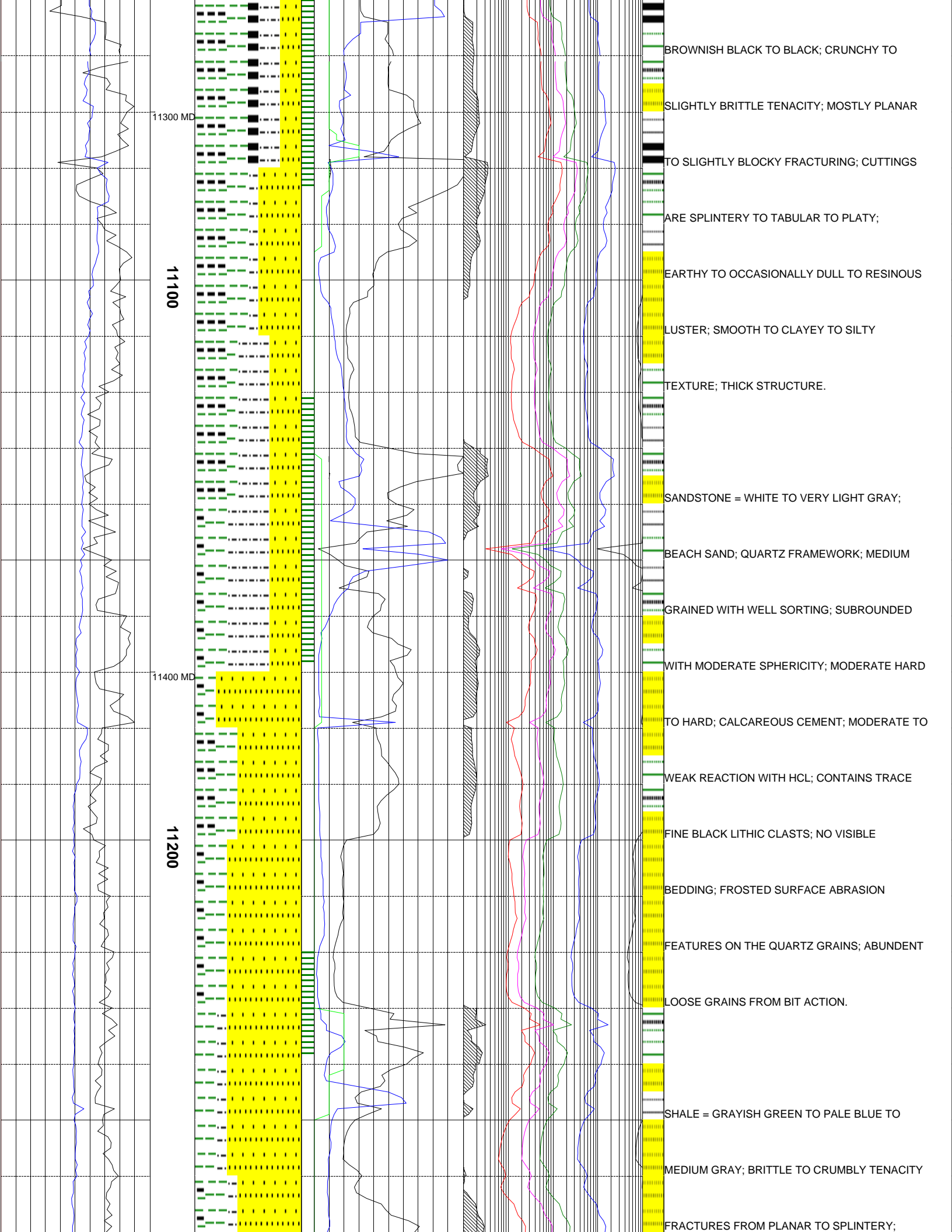


11100 MD
10900
11200 MD
11000

>200 ROP
>50 Avg WGB
>0 Gamma 100

Ttl Gas 2K > 210
CO2 40K > 10
Flare /ft. 100 > 10
Meth C-1 100K >
Ethn C-2 100K >
Prop C-3 100K >
Burn C-4 100K >
Pent C-5 100K >

BE WEDGE-LIKE TO OCCASIONALLY BLADED TO
 ELONGATED TABULAR IN HABIT; PREDOMINATE-
 LY GREASY TO WAXY TO SEMI SPARKLING TO
 SLIGHT VITREOUS LUSTER; PREDOMINATELY
 MATTE TO SMOOTH TO OCCASIONALLY SILTY
 TO GRITTY TEXTURE; VISIBLE DEGASSING
 THROUGH OUT THE SAMPLE.
 SANDSTONE = TRANSLUCENT TO LIGHT BROWN
 TO LIGHT GRAY TO WHITE; DOMINATE QUARTZ
 FRAMEWORK WITH APPROXIMATELY 5% BLACK
 LITHIC CLASTS INTERBEDDEED; FINE TO
 MEDIUM FINE GRAINED WITH WELL SORTING;
 SUBROUND TO SUBANGULAR WITH MODERATE
 SPHERICITY; FIRMLY FRIABLE TO MODERATE
 HARDNESS; GRAIN SUPPORTED; LIGHT TO
 MODERATE REACTION WITH HCL SUGGESTS
 CALCAREOUS CEMENT; THIN LAMINAR COAL AND
 CARBONACEOUS BANDING OBSERVED; HIGH GAS
 ASSOCIATED WITH SAMPLE.
 CARBONACEOUS SHALE = GRAYISH BLACK TO



11300 MD

11100

11400 MD

11200

BROWNISH BLACK TO BLACK; CRUNCHY TO

SLIGHTLY BRITTLE TENACITY; MOSTLY PLANAR

TO SLIGHTLY BLOCKY FRACTURING; CUTTINGS

ARE SPLINTERY TO TABULAR TO PLATY;

EARTHY TO OCCASIONALLY DULL TO RESINOUS

LUSTER; SMOOTH TO CLAYEY TO SILTY

TEXTURE; THICK STRUCTURE.

SANDSTONE = WHITE TO VERY LIGHT GRAY;

BEACH SAND; QUARTZ FRAMEWORK; MEDIUM

GRAINED WITH WELL SORTING; SUBROUNDED

WITH MODERATE SPHERICITY; MODERATE HARD

TO HARD; CALCAREOUS CEMENT; MODERATE TO

WEAK REACTION WITH HCL; CONTAINS TRACE

FINE BLACK LITHIC CLASTS; NO VISIBLE

BEDDING; FROSTED SURFACE ABRASION

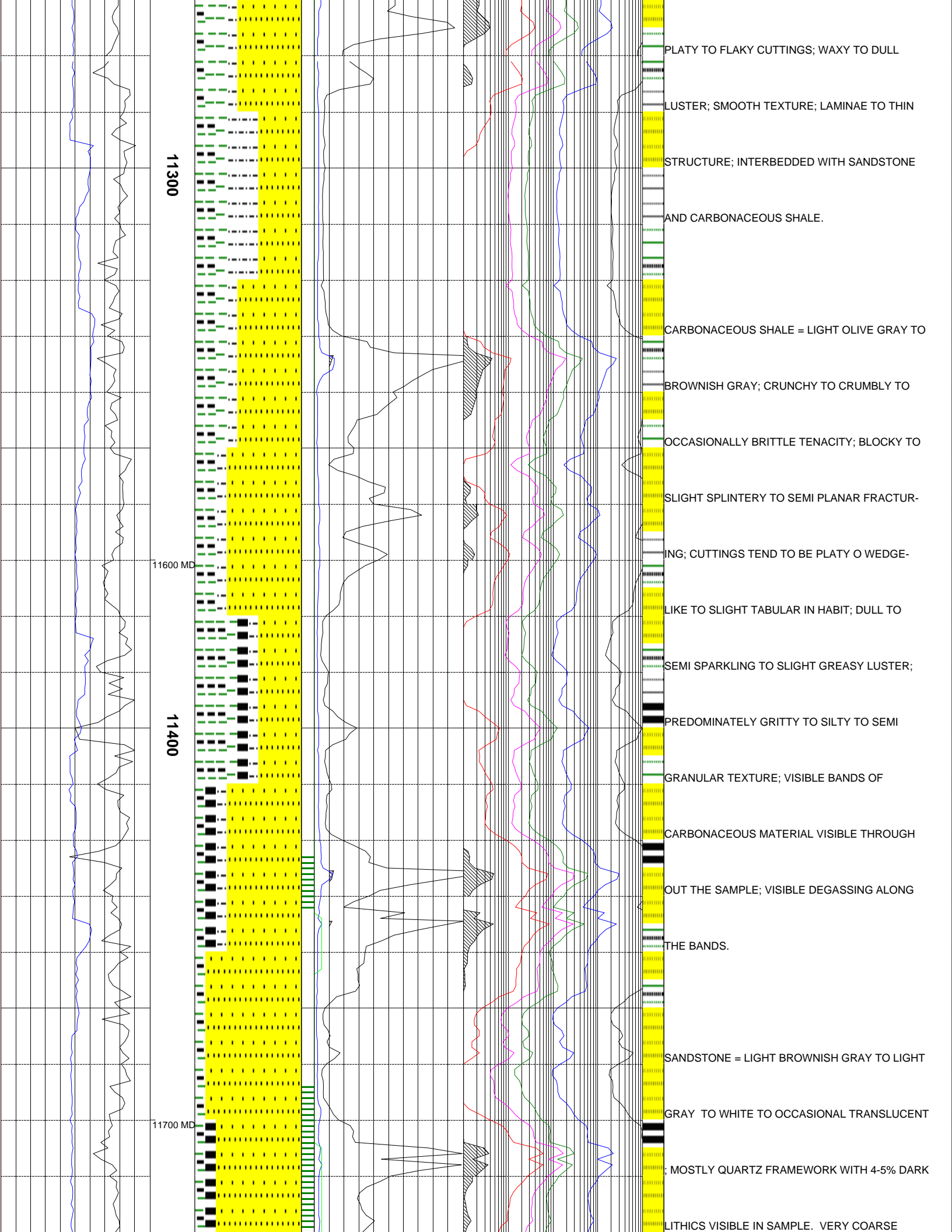
FEATURES ON THE QUARTZ GRAINS; ABUNDENT

LOOSE GRAINS FROM BIT ACTION.

SHALE = GRAYISH GREEN TO PALE BLUE TO

MEDIUM GRAY; BRITTLE TO CRUMBLY TENACITY

FRACTURES FROM PLANAR TO SPLINTERY;



11300

11600 MD

11400

11700 MD

PLATY TO FLAKY CUTTINGS; WAXY TO DULL

LUSTER; SMOOTH TEXTURE; LAMINAE TO THIN

STRUCTURE; INTERBEDDED WITH SANDSTONE

AND CARBONACEOUS SHALE.

CARBONACEOUS SHALE = LIGHT OLIVE GRAY TO

BROWNISH GRAY; CRUNCHY TO CRUMBLY TO

OCCASIONALLY BRITTLE TENACITY; BLOCKY TO

SLIGHT SPLINTERY TO SEMI PLANAR FRACTUR-

ING; CUTTINGS TEND TO BE PLATY OR WEDGE-

LIKE TO SLIGHT TABULAR IN HABIT; DULL TO

SEMI SPARKLING TO SLIGHT GREASY LUSTER;

PREDOMINATELY GRITTY TO SILTY TO SEMI

GRANULAR TEXTURE; VISIBLE BANDS OF

CARBONACEOUS MATERIAL VISIBLE THROUGH

OUT THE SAMPLE; VISIBLE DEGASSING ALONG

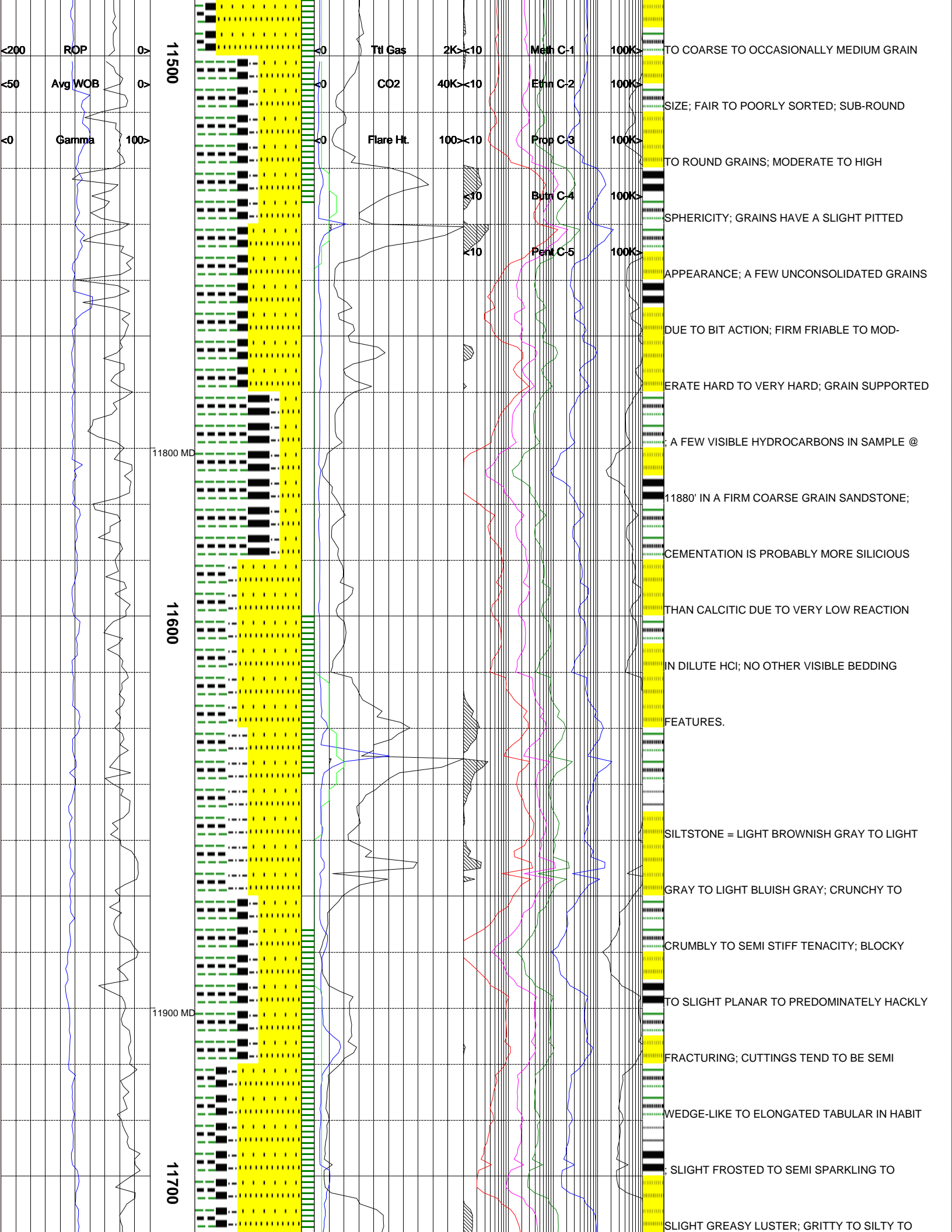
THE BANDS.

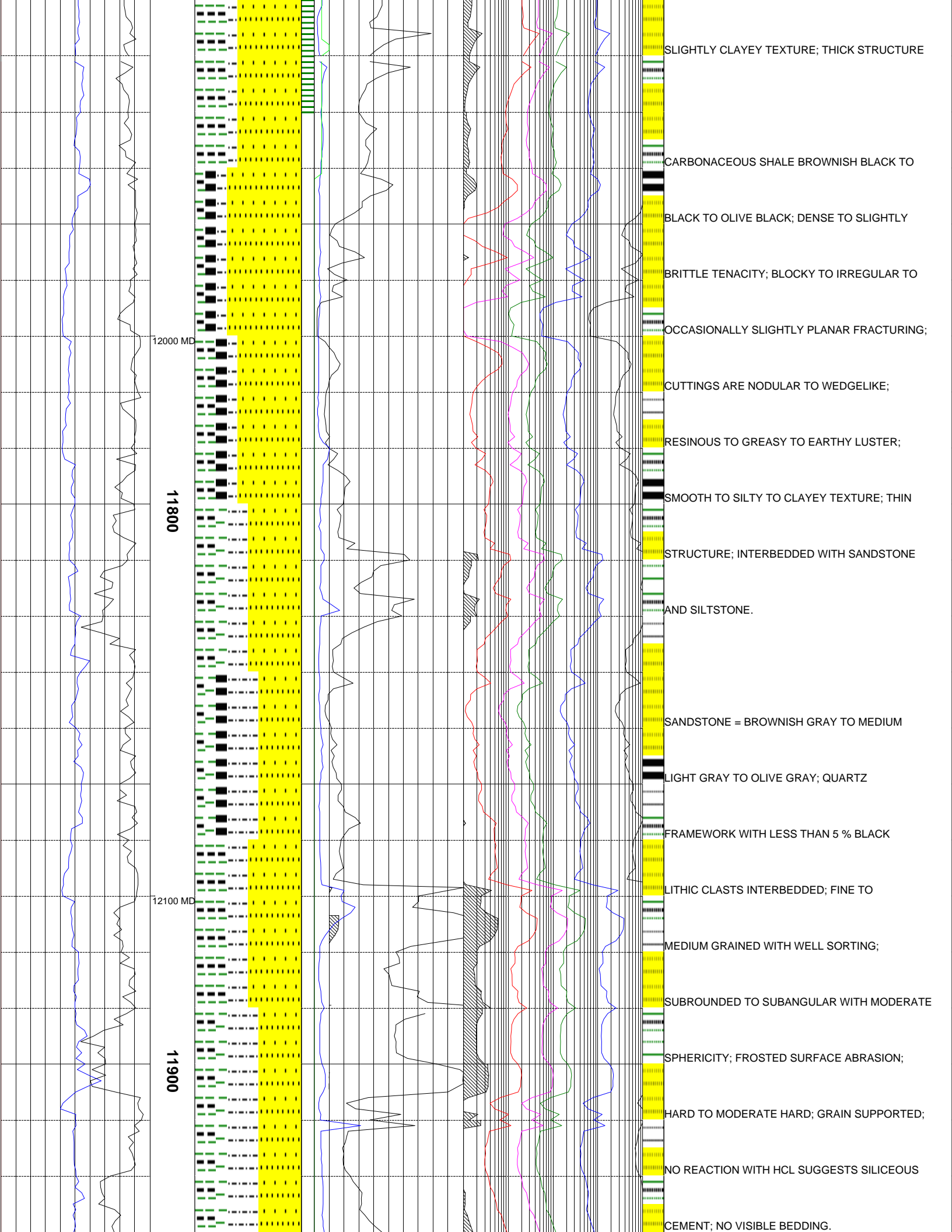
SANDSTONE = LIGHT BROWNISH GRAY TO LIGHT

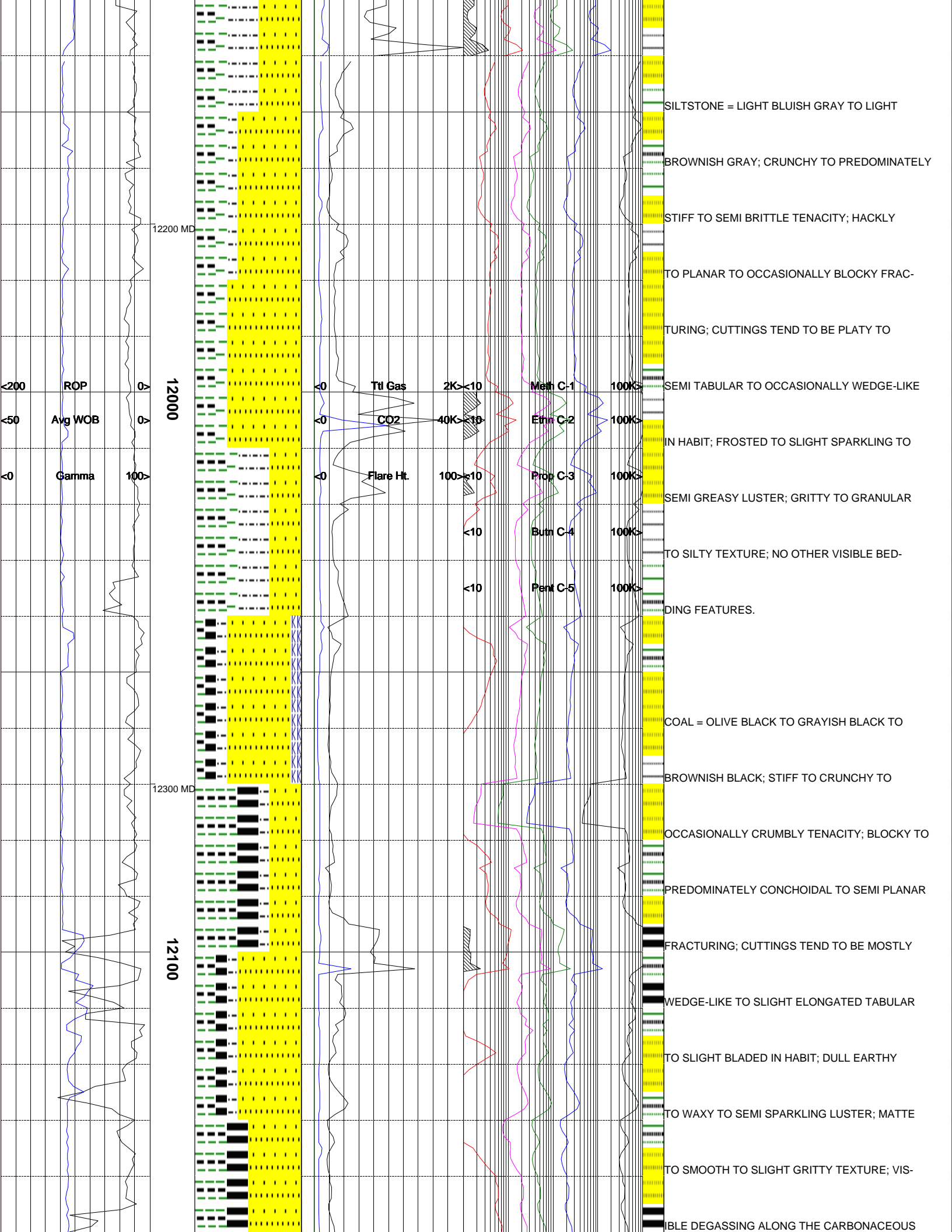
GRAY TO WHITE TO OCCASIONAL TRANSLUCENT

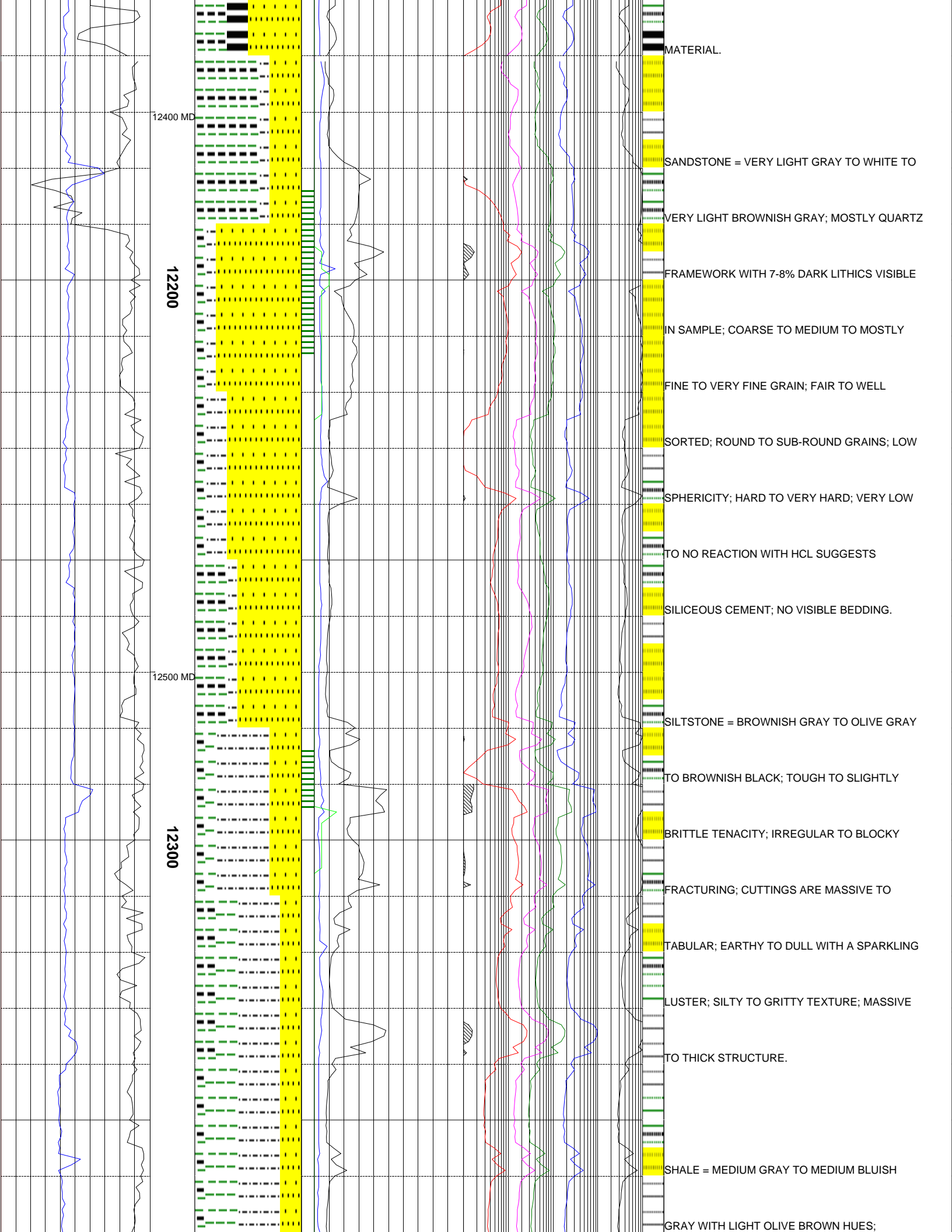
; MOSTLY QUARTZ FRAMEWORK WITH 4-5% DARK

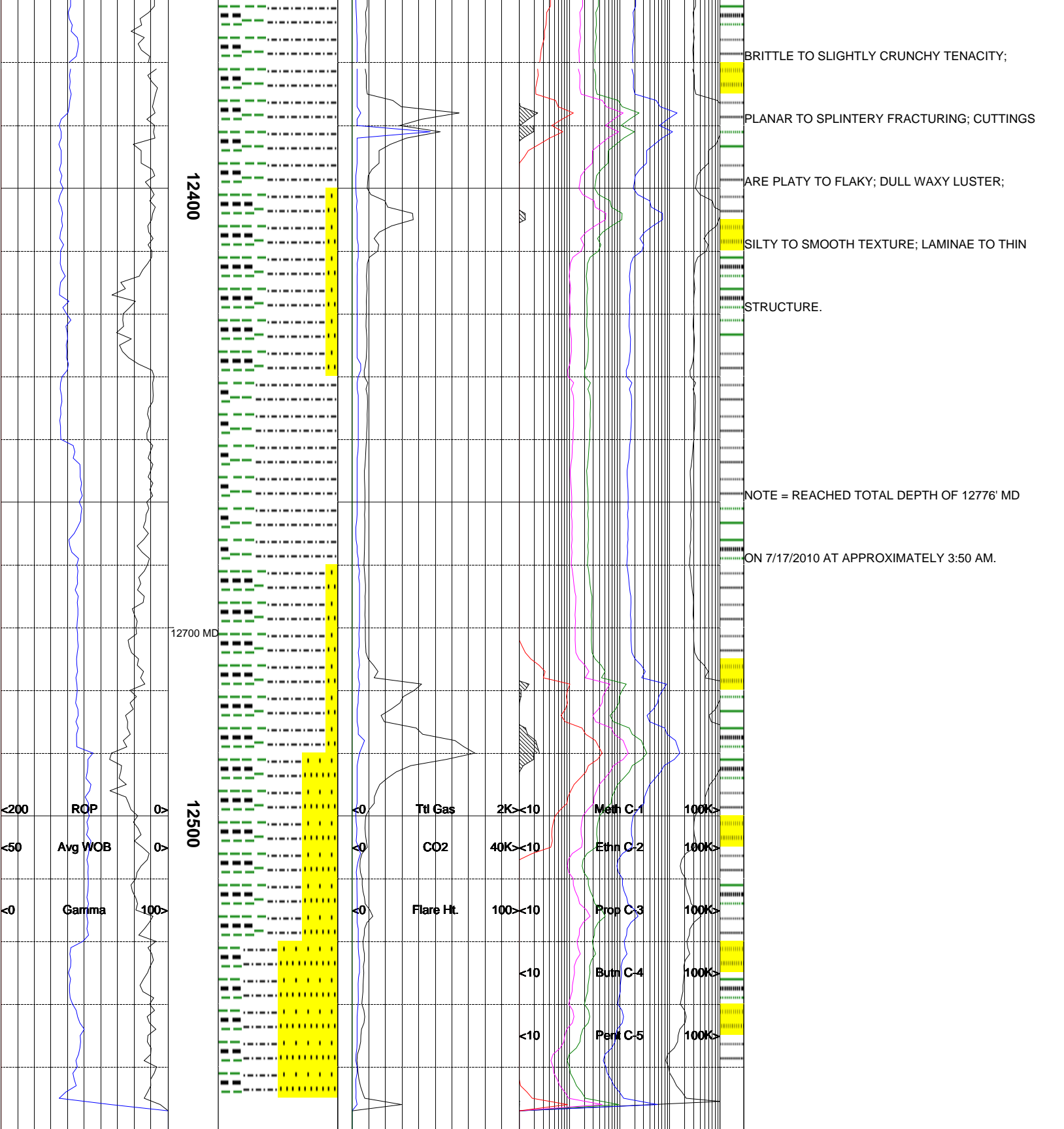
LITHICS VISIBLE IN SAMPLE. VERY COARSE











The log data, interpretations and recommendation provided by Epoch are inferences and assumptions based on measurements of drilling fluids. Such inferences and assumptions are not infallible and reasonable professionals may differ. Epoch does not represent or warrant the accuracy, correctness or completeness of any log data, interpretations, recommendations or information provided by Epoch, its officers, agents or employees. Epoch does not and cannot guarantee the accuracy of any such interpretation of the log data, interpretations or recommendations and Company is fully responsible for all decisions and actions it takes based on such log data, interpretations and recommendations.

