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Mudlog MD

COMPANY	EXXONMOBIL
WELL	PCU 296-5A6
FIELD	PICEANCE CREEK
REGION	ROCKIES
COORDINATES	LAT: 39.912044 LONG: -108.198659
ELEVATION	G.L.:7294' RKB: 30.2'
COUNTY, STATE	RIO BLANCO, CO
API INDEX	051031124000
SPUD DATE	2/28/2011
CONTRACTOR	HELMERICH_PAYNE
CO. REP.	C. CURTIS/M. HUDON
RIG/TYPE	FLEX 4S / HP 321
LOGGING UNIT	MLO31
GEOLOGISTS	M. GROSS B. SMELSER
ADD. PERSONS	D. NEW
CO. GEOLOGIST	C. ALBA

LOG INTERVAL

DEPTHS:	4885'	TO	14007'
DATES:	03/01/2011	TO	3/22/2011
SCALE:	5" = 100'		

CASING DATA

16.00"	AT	119'
10.75"	AT	4870'
7.00"	AT	10543'
AT		

HOLE SIZE

14.75"	TO	4885'
9.875"	TO	10586'
6.125"	TO	14007'
TO		

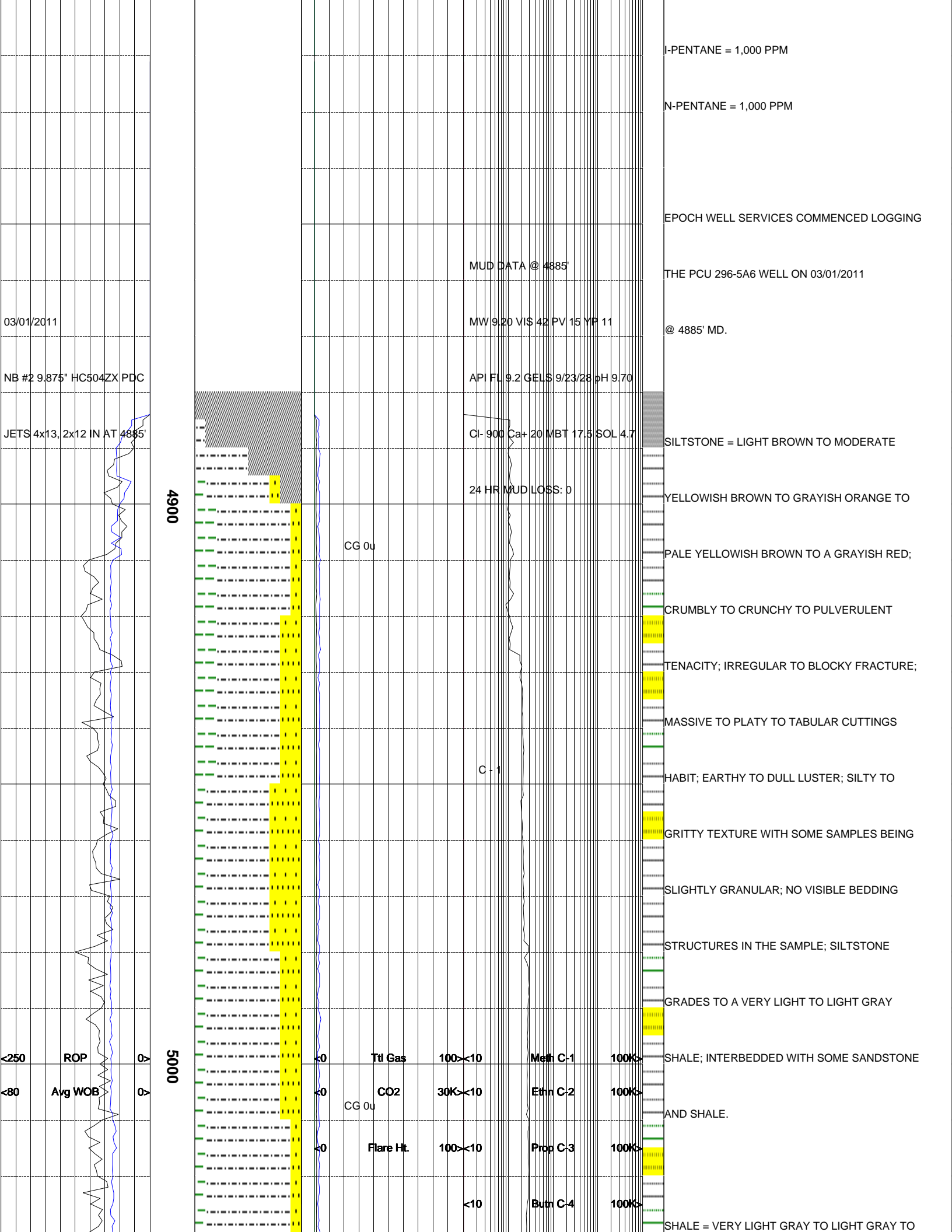
MUD TYPES

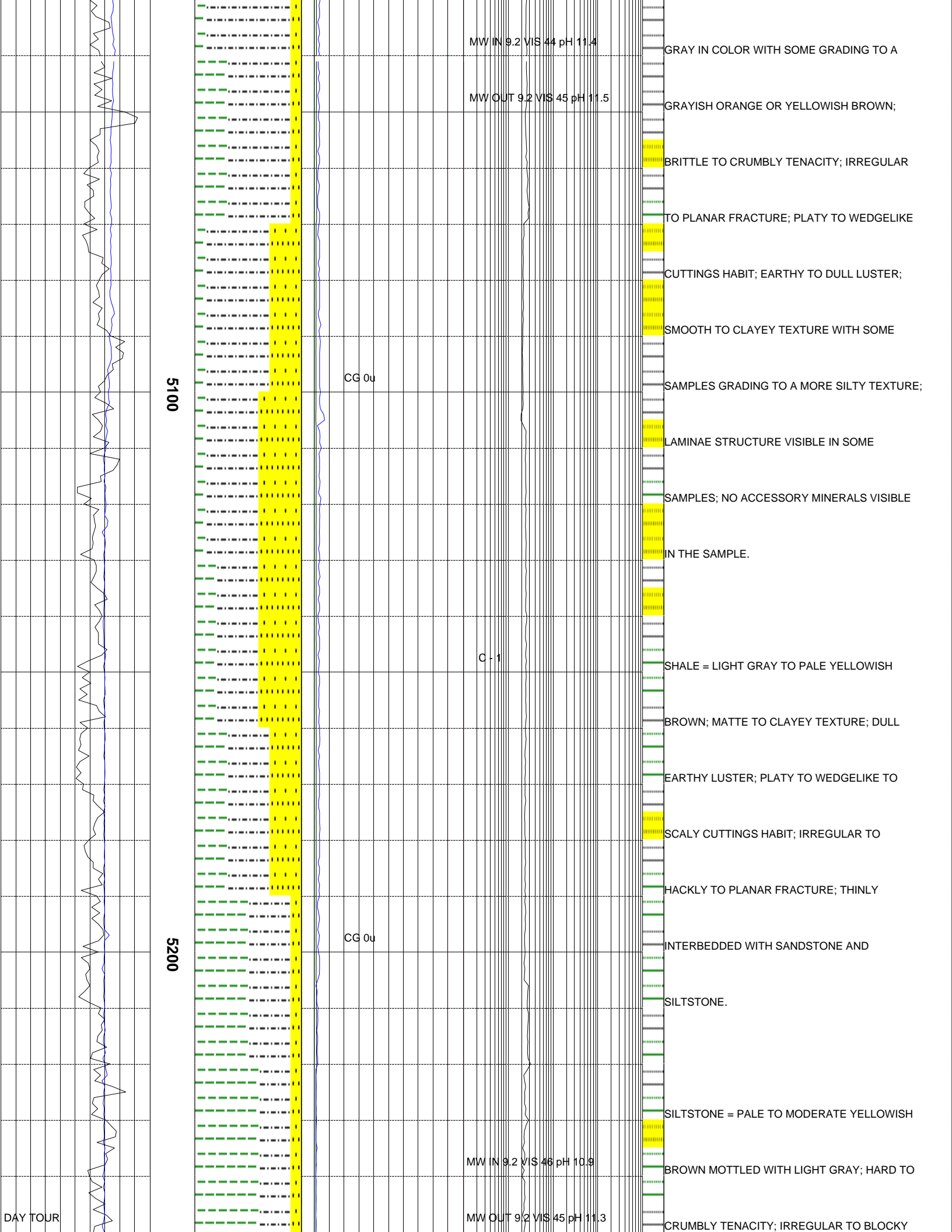
SPUD MUD	TO	4885'
LSND	TO	14007'
	TO	
	TO	

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	





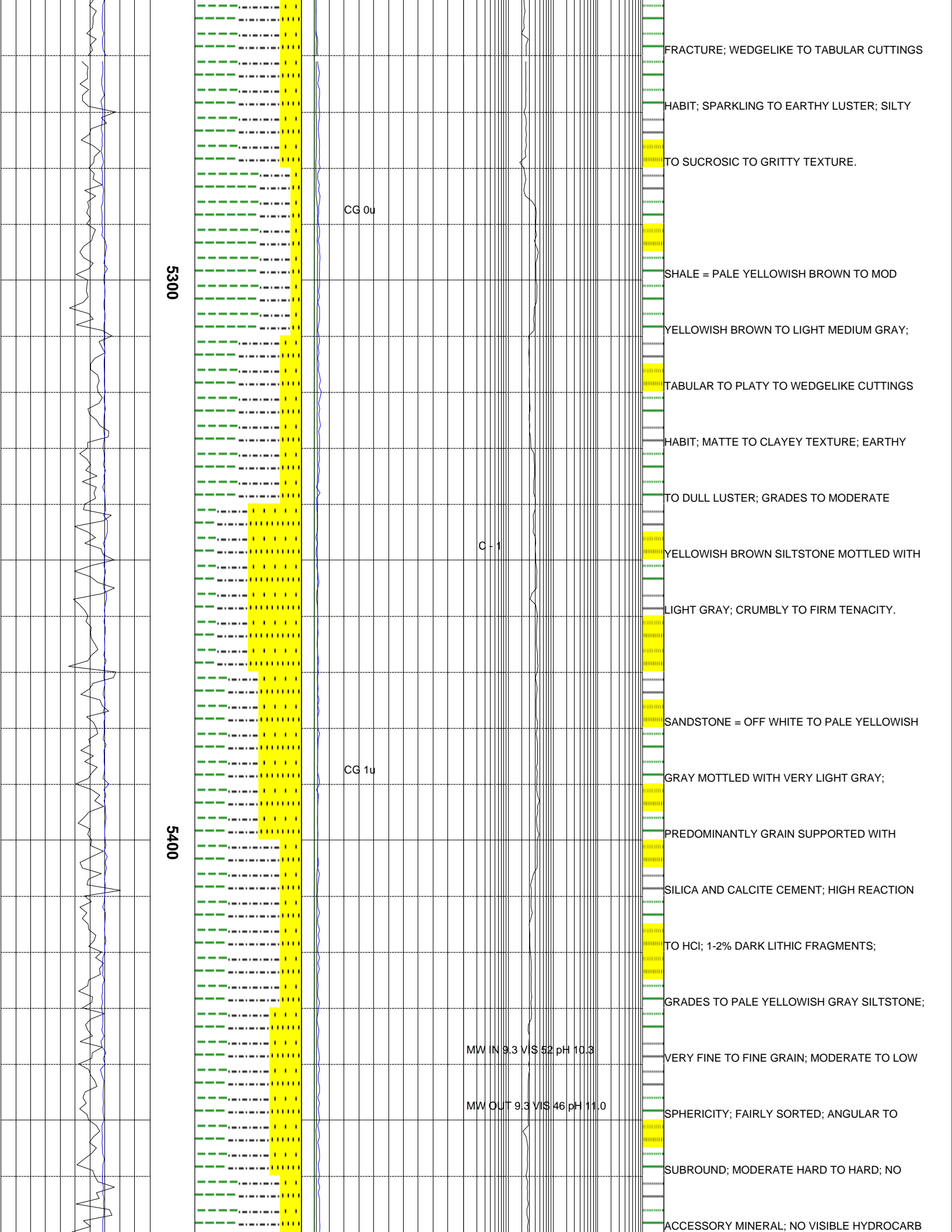
5100

5200

CG 0u

C - 1

CG 0u



5300

5400

CG 0u

C - 1

CG 1u

MW IN 9.3 VIS 52 pH 10.3

MW OUT 9.3 VIS 46 pH 11.0

FRACTURE; WEDGELIKE TO TABULAR CUTTINGS

HABIT; SPARKLING TO EARTHY LUSTER; SILTY

TO SUCROSIC TO GRITTY TEXTURE.

SHALE = PALE YELLOWISH BROWN TO MOD

YELLOWISH BROWN TO LIGHT MEDIUM GRAY;

TABULAR TO PLATY TO WEDGELIKE CUTTINGS

HABIT; MATTE TO CLAYEY TEXTURE; EARTHY

TO DULL LUSTER; GRADES TO MODERATE

YELLOWISH BROWN SILTSTONE MOTTLED WITH

LIGHT GRAY; CRUMBLY TO FIRM TENACITY.

SANDSTONE = OFF WHITE TO PALE YELLOWISH

GRAY MOTTLED WITH VERY LIGHT GRAY;

PREDOMINANTLY GRAIN SUPPORTED WITH

SILICA AND CALCITE CEMENT; HIGH REACTION

TO HCl; 1-2% DARK LITHIC FRAGMENTS;

GRADES TO PALE YELLOWISH GRAY SILTSTONE;

VERY FINE TO FINE GRAIN; MODERATE TO LOW

SPHERICITY; FAIRLY SORTED; ANGULAR TO

SUBROUND; MODERATE HARD TO HARD; NO

ACCESSORY MINERAL; NO VISIBLE HYDROCARB

