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Drilling Dynamics MD

COMPANY ExxonMobil Production

WELL PCU296-5A05

FIELD PICEANCE CREEK

REGION ROCKYS

COORDINATES 39.911890000 Deg N
108.198602000 Deg W

ELEVATION 7295.9'

COUNTY, STATE RIO BLANCO, CO

API INDEX 051031124400

SPUD DATE 11/14/2009

CONTRACTOR HE

CO. REP. CANDICE CURTIS

RIG/TYPE 321, FLEX 4

LOGGING UNIT 31

GEOLOGISTS C. RECORD / B. SMELSER
M. FRANCO

ADD. PERSONS M. PIPER
R. McCANE

CO. GEOLOGIST CHRIS ALBA

LOG INTERVAL

DEPTHS: 4400' **TO** 13721'

DATES: 11/11/2010 **TO** 11/28/2010

SCALE: 1"=100'

CASING DATA

16.00" **AT** 150'

10.75" **AT** 4662'

7.00" **AT** 9954'

4.5" **AT** 13700'

HOLE SIZE

14.75" **TO** 4677'

9.875" **TO** 9967'

6.125" **TO** 13721'

TO

MUD TYPES

WATER BASED **TO** 13721'

TO

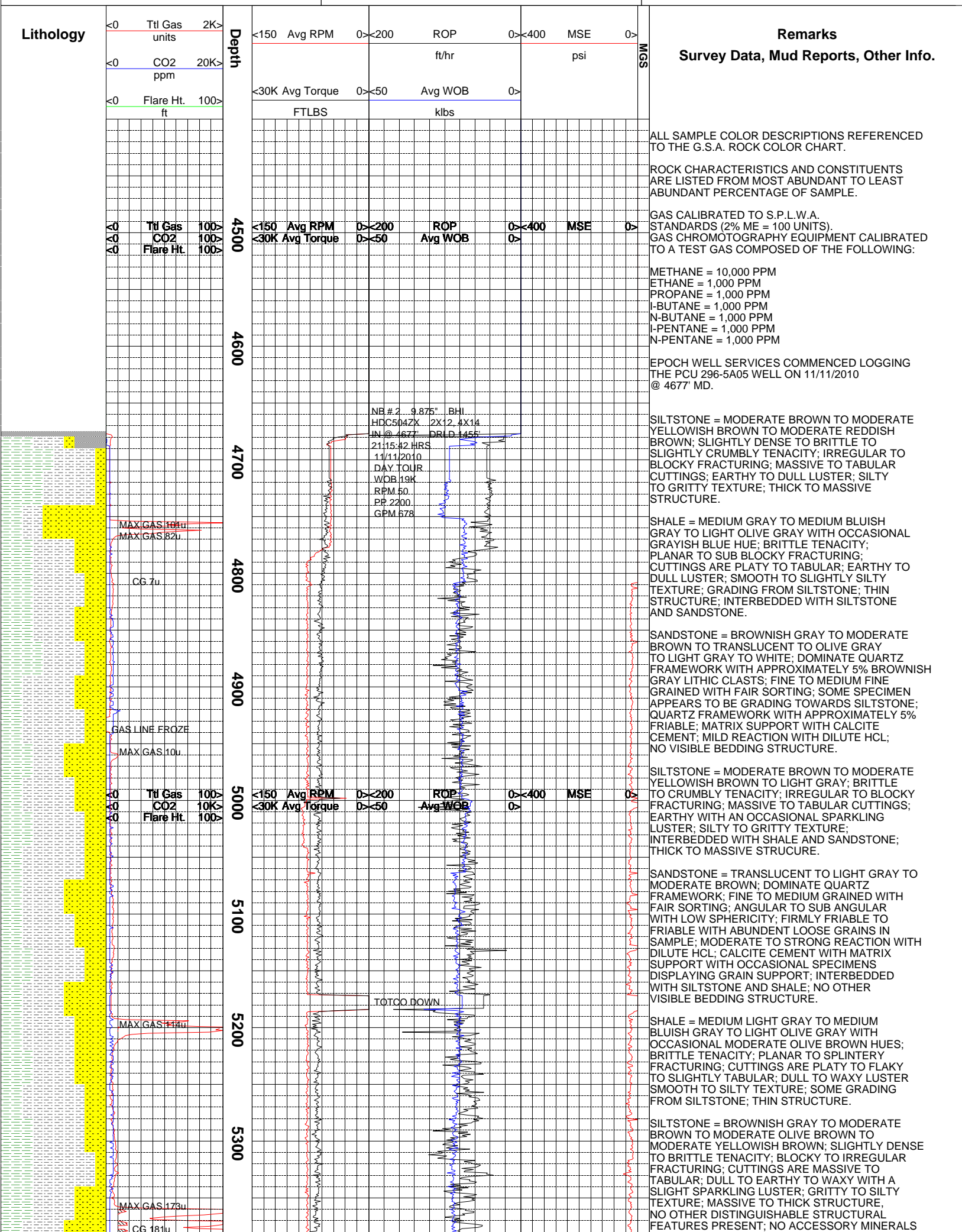
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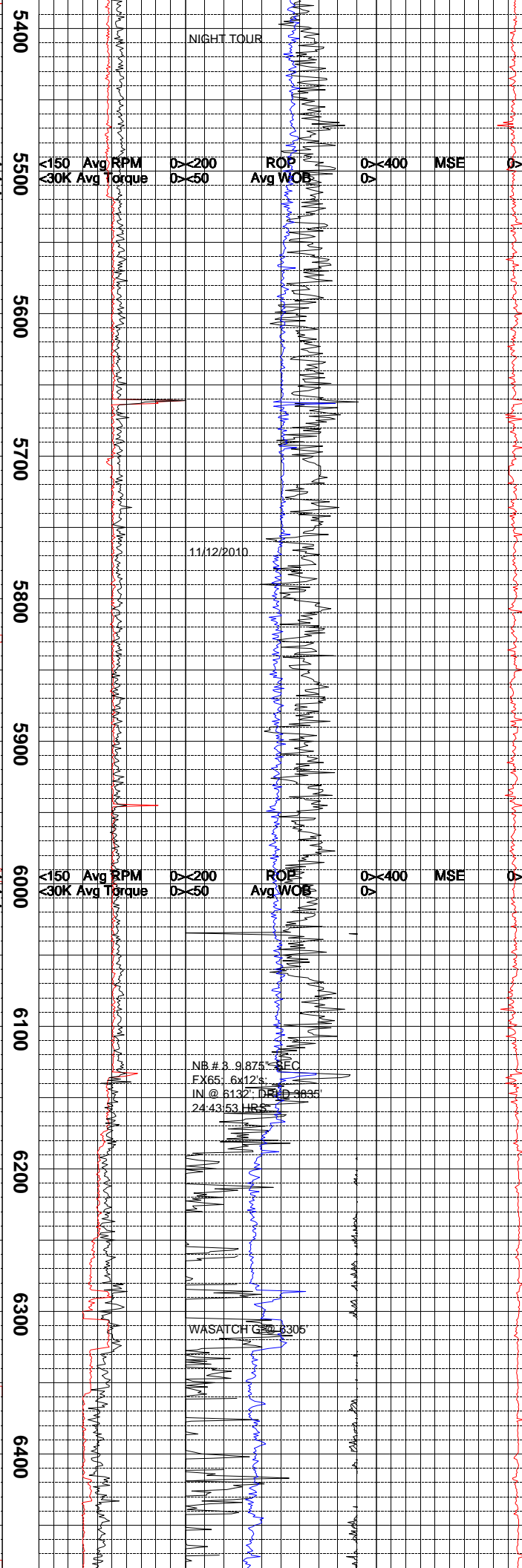
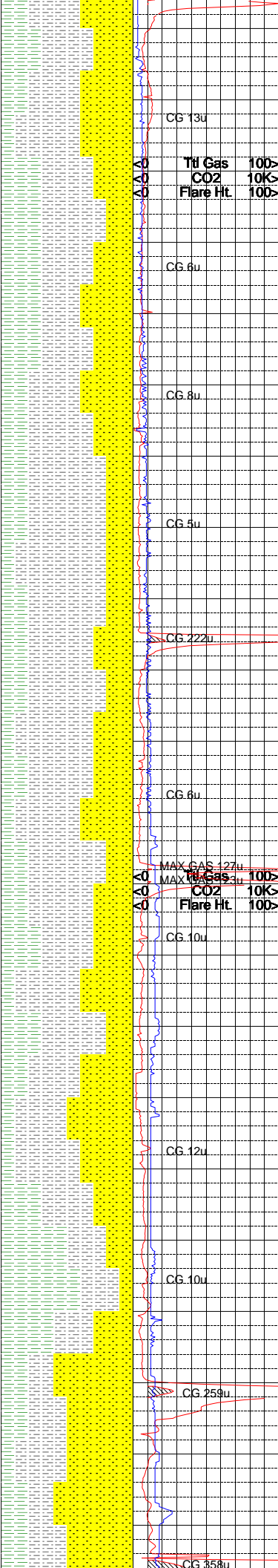
TO

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	





PRESENT IN SAMPLE.

SANDSTONE = VERY LIGHT GRAY TO OFF WHITE TO VERY LIGHT BROWNISH GRAY WITH FEW BLACK AND MODERATE BROWN HUES; QUARTZ DOMINATE FRAME WORK; PREDOMINATELY GRAIN SUPPORTED WITH FEW LOOSE GRAINS; CONSISTS OF CALCITIC CEMENTATION WITH LIGHT TO MODERATE REACTION TO DILUTE HCL; MATRIX CONTAINS 3 TO 5% DARK LITHIC FRAGMENTS; FINE TO MEDIUM-COARSE GRAINED; FAIR TO POOR SORTING; SUB-ANGULAR TO SUB-ROUNDED TO ROUNDED ANGULARITY; LOW TO MODERATE SPHERICITY; POOR GRADE SILTS -TONE VISIBLE GRADING WITH POOR GRADE SANDSTONE, AND BEDDING WITH POOR GRADE SHALE, NO OTHER DISTINGUISHABLE SURFACE FEATURES PRESENT IN SAMPLE; NO ACCESSORY MINERALS PRESENT IN SAMPLE.

SHALE = LIGHT GRAY TO MEDIUM LIGHT GRAY TO OCCASIONAL MEDIUM GRAY IN COLOR; VERY SLIGHTLY DENSE TO SLIGHTLY CRUMBLY TO SLIGHTLY BRITTLE TENACITY; IRREGULAR TO SUB-PLANAR TO EARTHY FRACTURE; OCCASIONA -L MASSIVE TO WEDGE LIKE TO SUB-PLATY CUTTINGS HABIT; DULL TO EARTHY DULL TO OCCASIONAL SEMI-FROSTED TO SEMI-WAXY LUSTER; MODERATELY SMOOTH TO SLIGHTLY CLAYEY TO VERY SLIGHTLY SILTY TEXTURE; POOR GRADE SILTSTONE VISIBLE BEDDING WITH POOR GRADE SANDSTONE, NO LAMINAE OR OTHER DISTINGUISHABLE SURFACE FEATURES PRESENT IN SAMPLE; NO ACCESSORY MINERALS PRESENT IN SAMPLE.

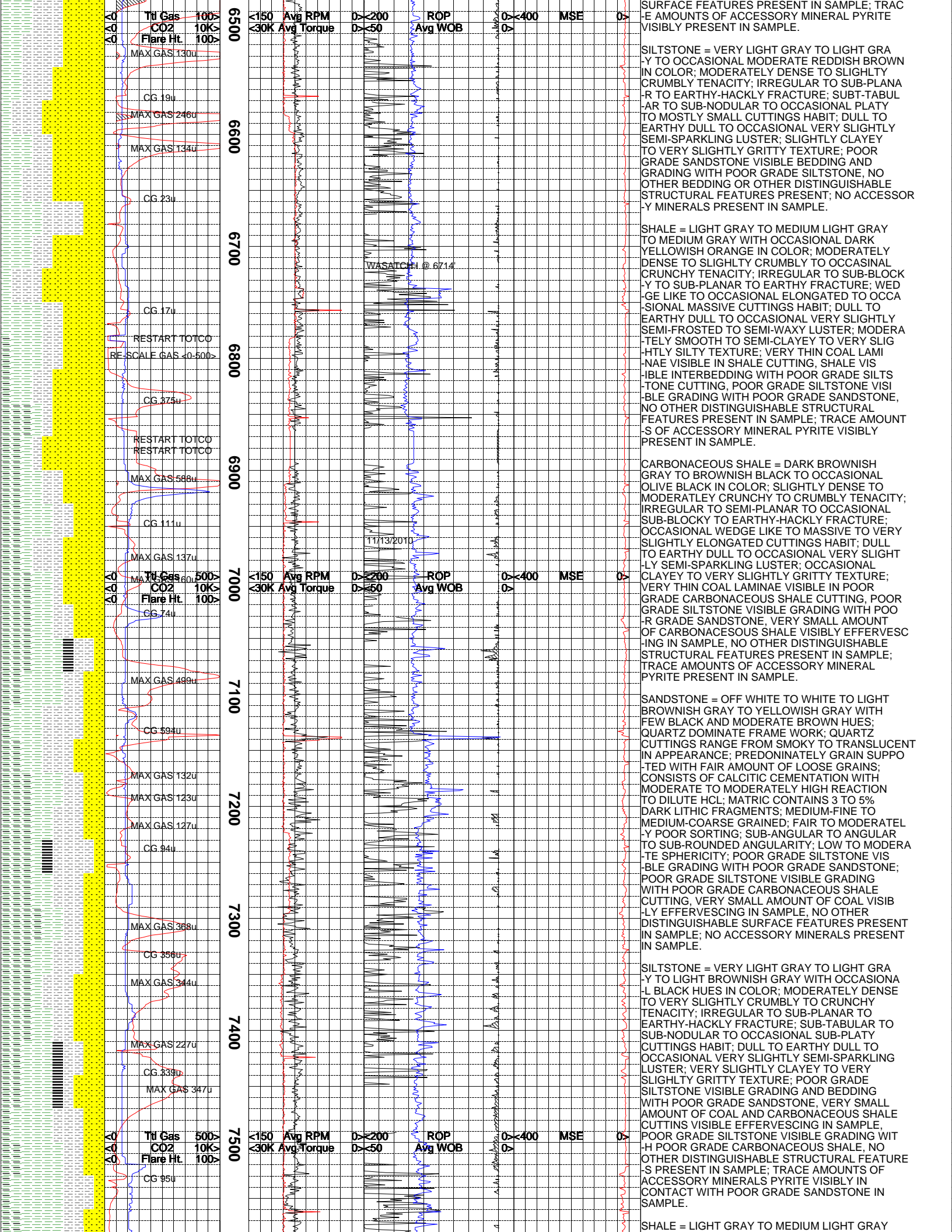
SILTSTONE = VERY LIGHT GRAY TO VERY LIGH -T BROWNISH GRAY TO OCCASIONAL PALE YELL -OWISH ORANGE TO LIGHT BROWN IN COLOR; MODERATELY CRUMBLY TO VERY SLIGHTLY BRITTLE TO OCCASIONAL VERY SLIGHTLY DENS -E TENACITY; IRREGULAR TO SUB-PLANAR TO EARTHY-HACKLY FRACTURE; SUB-TABULAR TO SUB-NODULAR TO MOSTLY SMALL CUTTINGS HABIT; DULL TO EARTHY DULL TO OCCASIONAL VERY SLIGHTLY SEMI-SPARKLING LUSTER; SLIGHTLY CLAYEY TO VERY SLIGHTLY GRITTY TEXTURE; POOR GRADE SILTSTONE VISIBLE GRADING WITH POOR GRADE SANDSTONE, NO LAMINAE OR OTHER DISTINGUISHABLE STRUCT -URAL FEATURES PRESENT IN SAMPLE; NO ACCESSORY MINERALS PRESENT IN SAMPLE.

SANDSTONE = LIGHT BROWNISH GRAY TO LIGHT PALE REDDISH BROWN TO OCCASIONAL VERY LIGHT GRAY WITH FEW BLACK AND MODERATE BROWN HUES; QUARTZ DOMINATE FRAME WORK; PREDOMINATELY GRAIN SUPPORTED WITH FEW LOOSE GRAINS; CONSISTS OF CALCITIC CEMENTATION WITH MODERATE TO HIGH REACTION TO DILUTE HCL; MATRIX CONTAINS 3 TO 5% DARK LITHIC FRAGMENTS; FINE TO MEDIUM-COARSE GRAINED; FAIR TO MODERATELY POOR SORTING; SUB-ANGULAR TO ANGULAR TO SUB-ROUNDED ANGULARITY; LOW TO MODERATE SPHERICITY; POOR GRADE SILTSTONE VISIBLE GRADING WITH POOR GRADE SANDSTONE, POOR GRADE SILTSTONE VISIBLE BEDDING WITH POOR GRADE SHALE, NO OTHER DISTINGUISHAB -LE SURFACE FEATURES PRESENT; NO ACCESSO -RY MINERALS PRESENT IN SAMPLE.

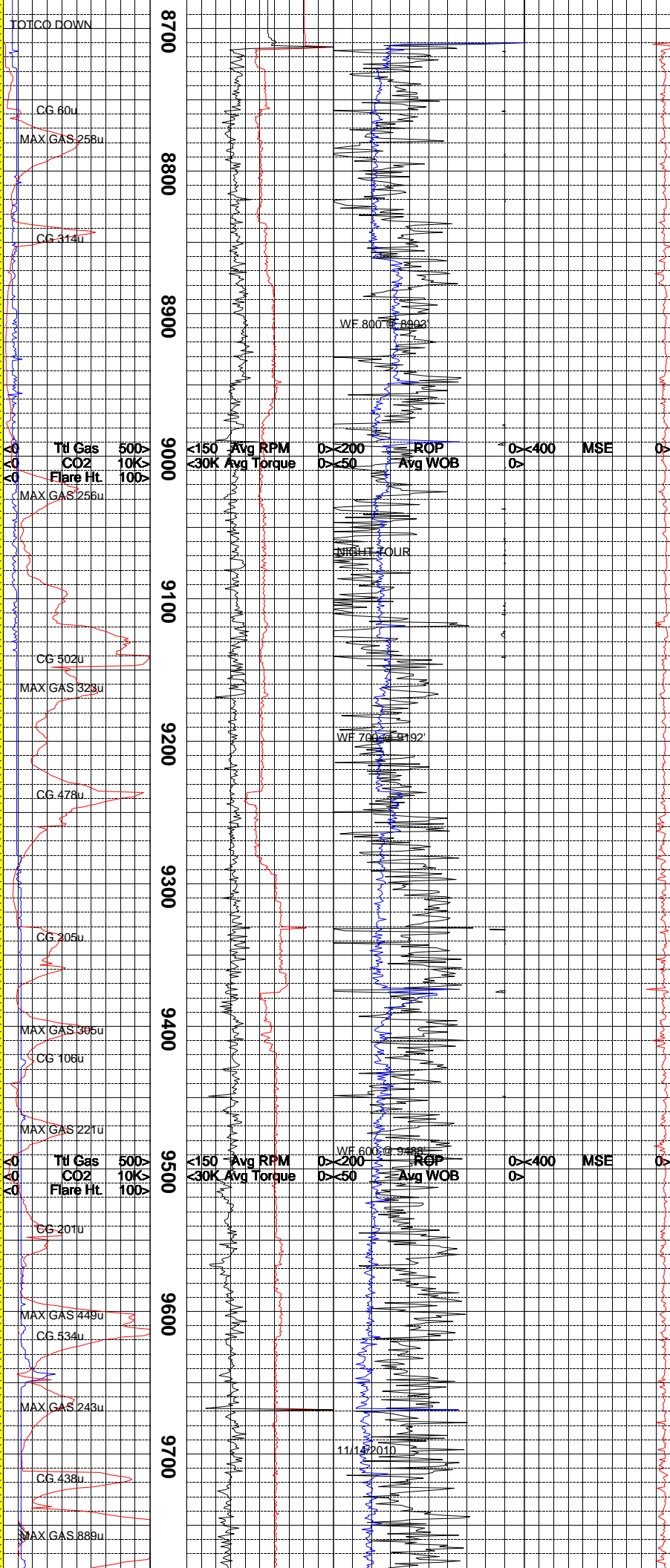
NOTE: DRILLED TO 6132', POOH TO REMOVE DIRECTIONAL TOOLS ON 11/12/2010.

SHALE = LIGHT GRAY TO MEDIUM LIGHT GRAY TO OCCASIONAL MEDIUM GRAY IN COLOR; MODERATELY DENSE TO SLIGHTLY CRUNCHY TENACITY; IRREGULAR TO SUB-BLOCKY TO EARTHY FRACTURE; OCCASIONAL MASSIVE TO WEDGE LIKE TO OCCASIONAL ELONGATED CUTTI -NGS HABIT; DULL TO EARTHY DULL TO OCCAS -IONAL SEMI-WAXY TO SEMI-FROSTED LUSTER; MODERATELY SMOOTH TO VERY SLIGHTLY CLAYEY TO VERY SLIGHTLY SILTY TEXTURE; POOR GRADE SILTSTONE VISIBLE GRADING WITH POOR GRADE SANDSTONE, NO LAMINAE OR OTHER DISTINGUISHABLE STRUCTURAL FEATURES PRESENT IN SAMPLE; NO ACCESSORY MINERALS PRESENT IN SAMPLE.

WASATCH G SANDSTONE = OFF WHITE TO WHITE TO VERY LIGHT GRAY WITH OCCASIONAL BLACK MODERATE BROWN, AND OCCASIONAL BRILLIANT GREEN HUES; QUARTZ DOMINATE FRAME WORK; QUARTZ CUTTINGS RANGE FROM SMOKY TO TRANSLUCENT; PREDOMINATELY GRAIN SUPPORT -ED WITH FAIR AMOUNT OF LOOSE GRAINS; CONSISTS OF CALCITIC CEMENTATION WITH MODERATE TO MODERATELY HIGH REACTION TO DILUTE HCL; MATRIX CONTAINS 1 TO 3% DARK LITHIC FRAGMENTS; FINE TO MEDIUM-FINE TO MEDIUM-COARSE GRAINED; MODERATELY FAIR TO POOR SORTING; SUB-ANGULAR TO SUB-ROUNDED ANGULARITY; LOW TO MODERATE SPHERICITY; POOR GRADE SILTSTONE VISIBLE GRADING WITH POOR GRADE SANDSTONE, VERY SMALL AMOUNT OF COAL VISIBLY EFFERVESCEIN -G IN SAMPLE, NO OTHER DISTINGUISHABLE



NOTE = TOTCO DOWN FROM 8664' TO 8710'.



SILTSTONE = DARK REDDISH BROWN TO MODERATE OLIVE BROWN TO MEDIUM GRAY; CRUMBLY TO SLIGHTLY BRITTLE TENACITY; FRACTURES FROM IRREGULAR TO BLOCKY; TABULAR TO WEDGE LIKE TO OCCASIONALLY SLIGHTLY NODULAR; CUTTINGS HABIT; EARTHY TO DULL TO OCCASIONALLY SPARKLING LUSTER SILTY TO GRITTY TO SLIGHTLY CLAYEY TEXTURE; THIN STRUCTURE; INTERBEDDED WITH SANDSTONE AND SHALE.

SANDSTONE = MEDIUM DARK GRAY TO LIGHT GRAY TO TRANSLUCENT TO WHITE; DOMINATE QUARTZ FRAMEWORK APPROXIMATELY 2% BLACK LITHIC CLASTS INTERBEDDED; MEDIUM TO COARSE TO OCCASIONALLY MEDIUM FINE GRAINED WITH POOR SORTING; ANGULAR TO SUBANGULAR WITH LOW SPHERICITY; MODERATE HARD TO OCCASIONALLY FIRMLY FRIABLE; STRONG REACTION WITH HCL SUGGEST CALCITE CEMENT; LIGHTER GRAY AND WHITE SPECIMENS DISPLAY MATRIX SUPPORT; WITH THE DARKER GRAY SPECIMENS DISPLAYING GRAIN SUPPORT; NO VISIBLE BEDDING STRUCTURE.

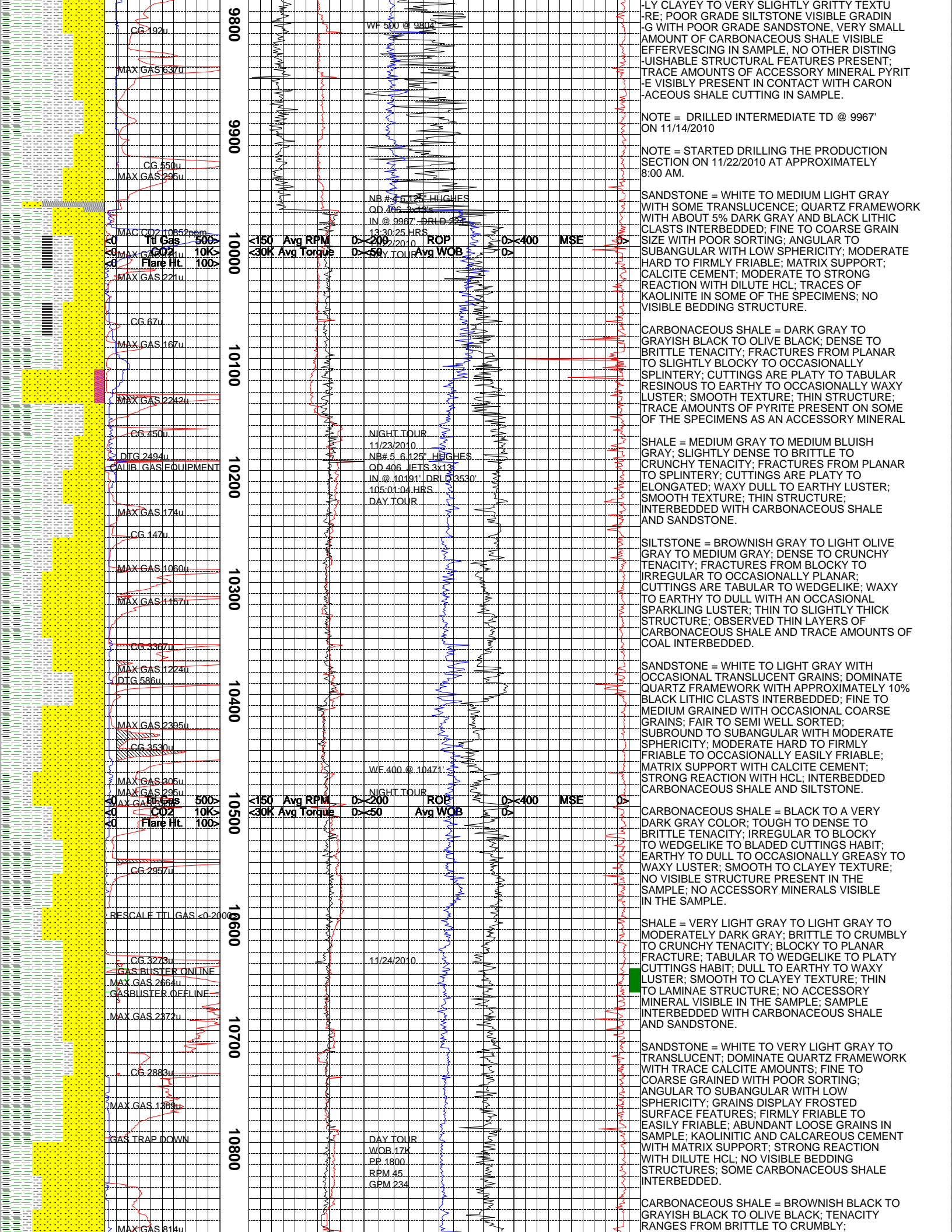
CARBONACEOUS SHALE = BLACK TO BROWNISH BLACK TO GRAYISH BLACK; SLIGHTLY DENSE TO BRITTLE TO SLIGHTLY CRUNCHY TENACITY; IRREGULAR TO SPLINTERY TO SUB BLOCKY FRACTURING; CUTTINGS ARE NODULAR TO WEDGE LIKE; RESINOUS TO SLIGHTLY WAXY LUSTER; SMOOTH TO CLAYEY TO SILTY TEXTURE; INTERBEDDED WITH SHALE, SILTSTONE AND SANDSTONE.

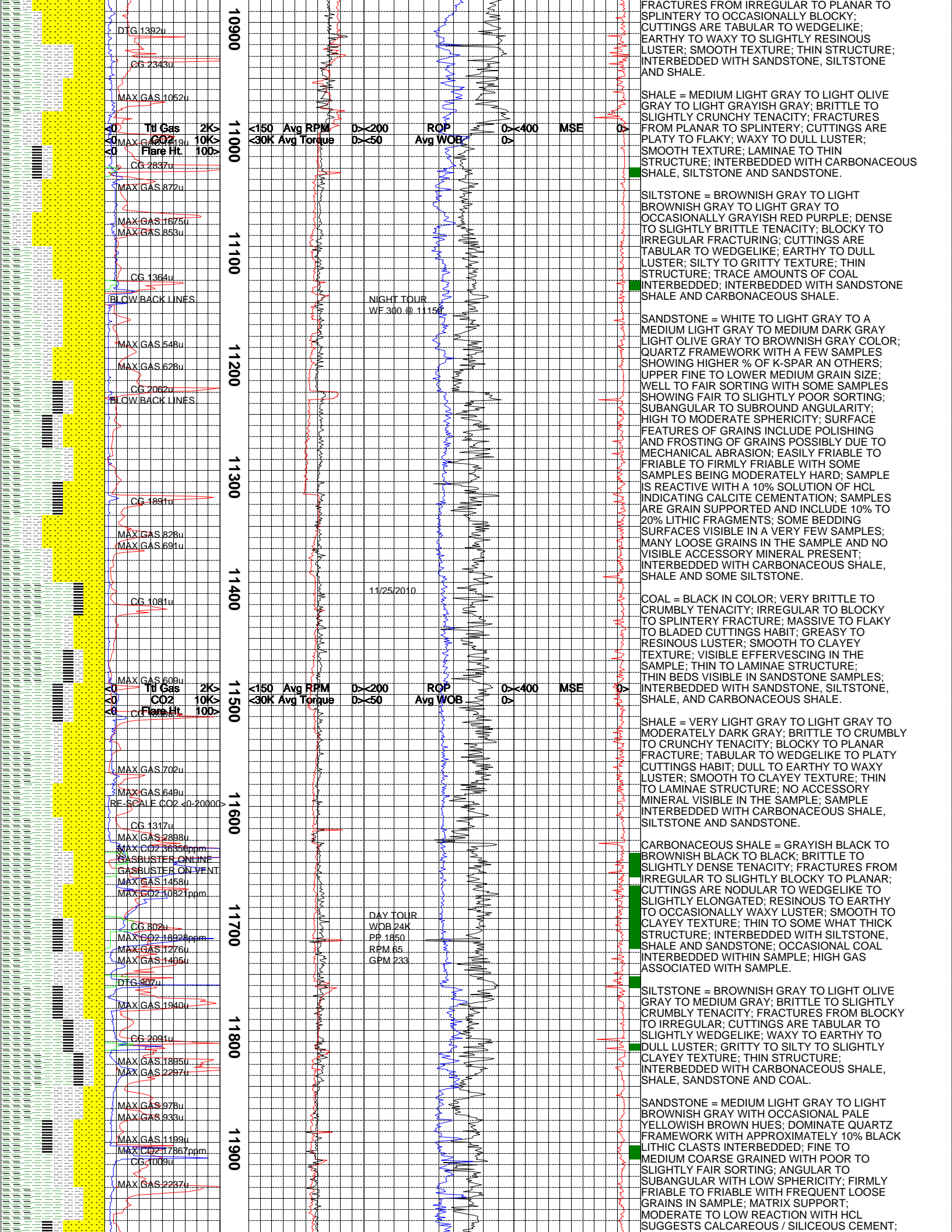
SHALE = LIGHT GRAY TO MEDIUM LIGHT GRAY TO OCCASIONAL MEDIUM GRAY TO LIGHT BLUIS -H GRAY IN COLOR; MODERATELY DENSE TO VERY SLIGHTLY TOUGH TO SLIGHTLY CRUNCHY TENACITY; IRREGULAR TO SUB-BLOCKY TO SUB -PLANAR TO EARTHY FRACTURE; OCCASIONAL MASSIVE TO WEDGE LIKE TO FEW ELONGATED CUTTINGS HABIT; DULL TO EARTHY DULL TO OCCASIONAL SEMI-FROSTED TO SEMI-WAXY LUSTER; VERY SLIGHTLY CLAYEY TO MODERATE -LY SMOOTH TO SLIGHTLY SILTY TEXTURE; POOR GRADE SANDSTONE VISIBLE BEDDING AND GRADING WITH POOR GRADE SILTSTONE, VERY THIN COAL LAMINAE VISIBLE IN POOR GRADE SANDSTONE AND CARBONACEOUS SHALE CUTTING. VERY SMALL AMOUNT OF COAL VISIB -LE EFFERVESCING IN SAMPLE, NO OTHER DISTINGUISHABLE STRUCTURAL FEATURES PRES -ENT; TRACE AMOUNTS OF ACCESSORY MINERAL PYRITE VISIBLY PRESENT IN SAMPLE.

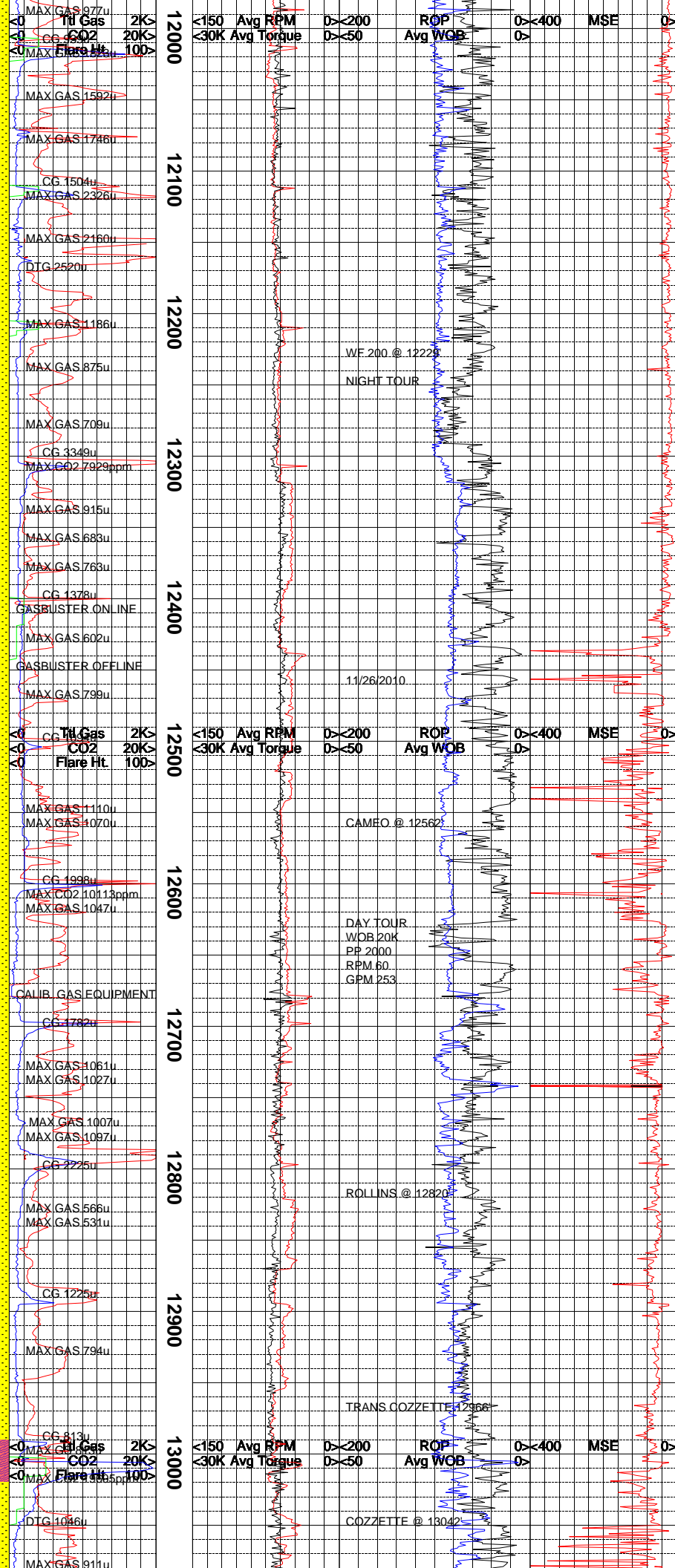
SILTSTONE = VERY LIGHT GRAY TO LIGHT GRA -Y TO OCCASIONAL MEDIUM LIGHT GRAY TO LIGHT BROWNISH GRAY IN COLOR; MODERATELY TOUGH TO MODERATELY DENSE TO OCCASIONAL CRUNCHY TENACITY; IRREGULAR TO SUB-PLANA -R TO EARTHY-HACKLY FRACTURE; SUB-TABULA -R TO SUB-NODULAR TO OCCASIONAL SUB-PLATY CUTTINGS HABIT; DULL TO EARTHY DUL -L TO OCCASIONAL VERY SLIGHTLY SEMI-SPARKLING LUSTER; SLIGHTLY CLAYEY TO VERY SLIGHTLY GRITTY TEXTURE; POOR GRADE SILTSTONE VISIBLE GRADING WITH POOR GRAD -E SANDSTONE, VERY SMALL AMOUNT OF CARBO -NACEOUS SHALE CUTTINGS VISIBLE LIGHTLY EFFERVESCING IN SAMPLE, POOR GRADE SILTS -TONE VISIBLE GRADING WITH POOR GRADE CA -RBONACEOUS SHALE CUTTINGS, NO OTHER DISTINGUISHABLE STRUCTURAL FEATURES PRES -ENT IN SAMPLE; NO ACCESSORY MINERALS PRESENT IN SAMPLE.

SANDSTONE = OFF WHITE TO VERY LIGHT YELL -OWISH GRAY TO VERY LIGHT BROWNISH GRAY WITH FEW BLACK AND MODERATE BROWN HUES; QUARTZ DOMINATE FRAME WORK; QUARTZ CUTTINGS RANGE FROM SMOKY TO TRANSLUCENT ; PREDOMINATELY GRAIN SUPPORTED WITH MODERATE AMOUNT OF LOOSE GRAINS; CONSIST -S OF CALCITIC CEMENTATION WITH MODERATE TO VERY HIGH REACTION TO DILUTE HCL; MAT -RIX CONTAINS 3 TO 5% DARK LITHIC FRAGME -NTS; MEDIUM-FINE TO MEDIUM-COARSE TO COARSE GRAINED; FAIR TO MODERATELY POOR SORTING; SUB-ANGULAR TO ANGULAR TO SUB-ROUNDED ANGULARITY; LOW TO MODERA -TE SPHERICITY; POOR GRADE SILTSTONE VIS -BLE GRADING WITH POOR GRADE SANDSTONE, NO BEDDING OR OTHER DISTINGUISHABLE SURFACE FEATURES PRESENT; TRACE AMOUNTS OF ACCESSORY MINERAL PYRITE VISIBLY PRESENT IN SAMPLE.

CARBONACEOUS SHALE = BROWNISH GRAY TO DARK BROWNISH GRAY TO BROWNISH BLACK TO OCCASIONAL OLIVE BLACK IN COLOR; MODE -RATELY DENSE TO SLIGHTLY TOUGH TO SLIGH -TLY CRUNCHY TENACITY; IRREGULAR TO SUB-BLOCKY TO EARTHY-HACKLY FRACTURE; OCCASI -ONAL MASSIVE TO WEDGE LIKE TO SUB-TABUL -AR TO SUB-NODULAR CUTTINGS HABIT; DULL TO EARTHY DULL TO SLIGHTLY GREASY TO OCCASIONAL SEMI-SPARKLING LUSTER; SLIGHT







INTERBEDDED WITH SILTSTONE; OCCASIONAL THIN SEAMS OF CARBONACEOUS SHALE AND COAL CAN BE OBSERVED IN A FEW OF THE SPECIMENS.

SHALE = MEDIUM LIGHT GRAY TO MEDIUM GRAY TO LIGHT BLuish GRAY; DENSE TO BRITTLE TENACITY; FRACTURES FROM PLANAR TO SPLINTERY; CUTTINGS ARE ELONGATED TO PLATY TO SLIGHTLY FLAKY; WAXY TO DULL LUSTER; SMOOTH TEXTURE; LAMINAE TO THIN STRUCTURE.

COAL = BLACK; BRITTLE TO CRUMBLY TO SLIGHTLY PULVERULENT TENACITY; CUTTINGS ARE FLAKY TO NODULAR; FRACTURES FROM BLOCKY TO IRREGULAR; EARTHY TO GREASY LUSTER; SMOOTH TO CLAYEY TEXTURE; THIN STRUCTURE; INTERBEDDED WITH CARBONACEOUS SHALE, SILTSTONE, SANDSTONE AND SHALE; HIGH GAS ASSOCIATED WITH SAMPLE.

CARBONACEOUS SHALE = BLACK TO GRAYISH BLACK TO DARK GRAY TO BROWNISH BLACK COLOR; DENSE TO BRITTLE TO CRUMBLY TENACITY; IRREGULAR TO BLOCKY TO PLANAR FRACTURE; MASSIVE TO PLATY TO WEDGELIKE TO BLADED CUTTING HABIT; EARTHY TO DULL TO WAXY TO GREASY LUSTER; SMOOTH TO CLAYEY TEXTURE; STRUCTURES VISIBLE IN THE SAMPLE ARE LAMINAE TO THIN; NO VISIBLE ACCESSORY MINERALS PRESENT IN THE SAMPLE; INTERBEDDED WITH SANDSTONE AND COAL.

SANDSTONE = PALE YELLOWISH BROWN TO PALE BROWN TO A DARK YELLOWISH BROWN TO MODERATE YELLOWISH BROWN COLOR; UPPER FINE TO LOWER MEDIUM GRAIN SIZE; WELL TO FAIR TO SLIGHTLY POOR SORTING; SUBROUND TO SUBANGULAR ANGULARITY; HIGH TO MODERATE SPHERICITY; SOME POLISHED TO FROSTED GRAINS; HARDNESS RANGES FROM FRIABLE TO HARD; MATRIX SUPPORTED WITH 10 TO 20% LITHICS; NO BEDDING STRUCTURES VISIBLE IN THE SAMPLES; NO ACCESSORY MINERALS VISIBLE IN THE SAMPLE; HIGHLY REACTIVE WITH A 10% HCL SOLUTION; INTERBEDDED WITH CARBONACEOUS SHALE AND COAL.

SHALE = LIGHT GRAY TO MEDIUM GRAY TO MEDIUM DARK GRAY COLOR; DENSE TO BRITTLE TO CRUNCHY TENACITY; IRREGULAR TO PLANAR FRACTURE; MASSIVE TO PLATY TO TABULAR CUTTINGS HABIT WITH SOME SAMPLES BEING WEDGELIKE TO BLADED; EARTHY TO DULL TO OCCASIONALLY WAXY LUSTER; SMOOTH TO CLAYEY TEXTURE; LAMINAE STRUCTURE VISIBLE IN SOME OF THE SAMPLES; NO ACCESSORY MINERALS PRESENT IN THE SAMPLE; INTERBEDDED WITH SANDSTONE; SHALE AND COAL.

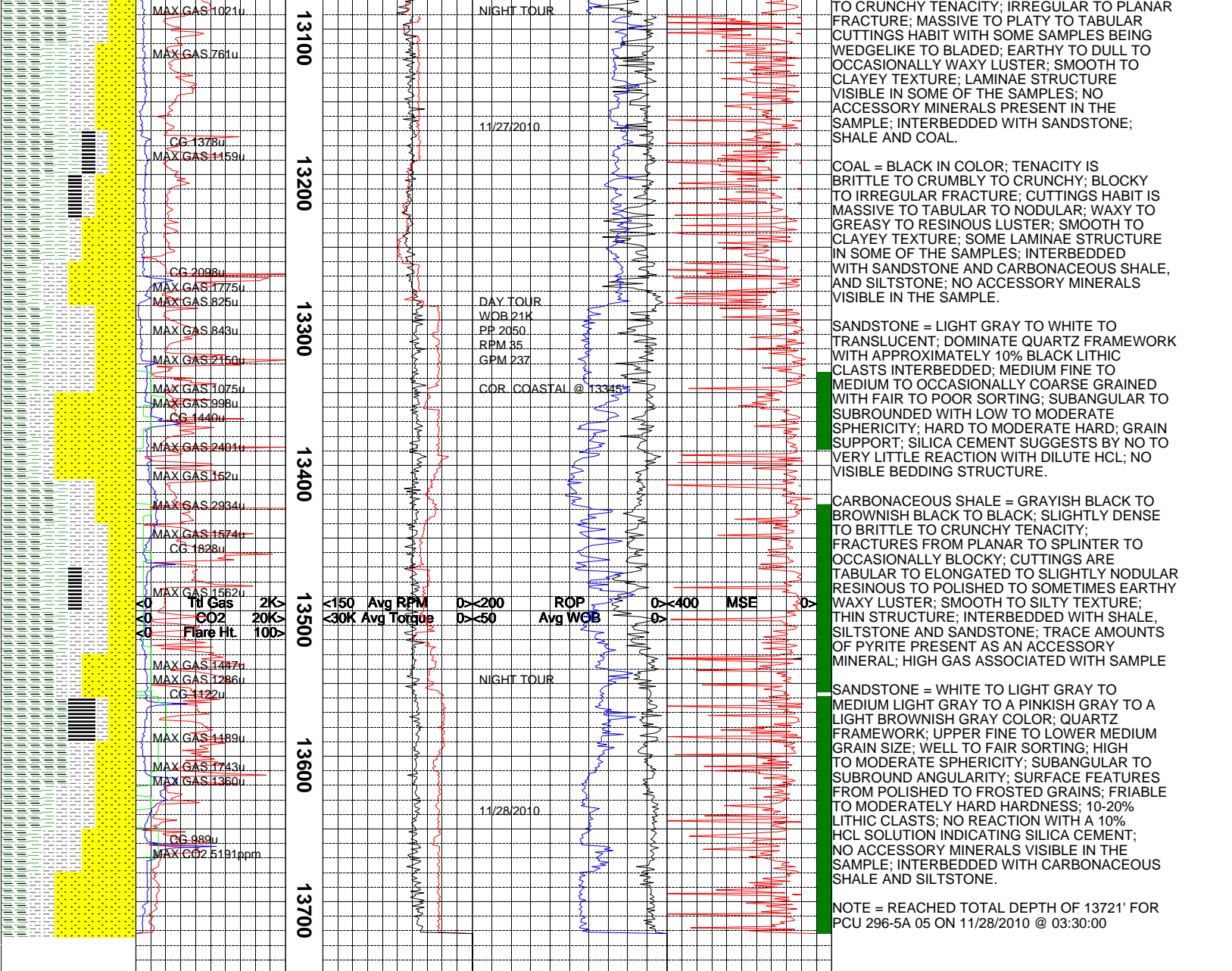
COAL = BLACK; CRUMBLY TO PULVERULENT TO BRITTLE TENACITY; FRACTURES FROM IRREGULAR TO BLOCKY TO OCCASIONALLY CONCHOIDAL; CUTTINGS ARE FLAKY TO ELONGATED TO SLIGHTLY NODULAR; SLIGHTLY GREASY TO RESINOUS TO EARTHY LUSTER; SMOOTH TO CLAYEY TEXTURE; THIN STRUCTURE INTERBEDDED WITH CARBONACEOUS SHALE SILTSTONE AND SANDSTONE; HIGH GAS ASSOCIATED WITH SAMPLE.

CARBONACEOUS SHALE = BLACK TO GRAYISH BLACK TO BROWNISH BLACK; DENSE TO BRITTLE TENACITY; FRACTURES FROM SUB BLOCKY TO IRREGULAR TO SLIGHTLY PLANAR; CUTTINGS ARE ELONGATED TO PLATY TO SLIGHTLY FLAKY; RESINOUS TO POLISHED TO SLIGHTLY EARTHY LUSTER; THICK STRUCTURE; INTERBEDDED WITH CARBONACEOUS SHALE; SMOOTH TEXTURE.

SANDSTONE = WHITE TO VERY LIGHT GRAY TO MEDIUM LIGHT GRAY; DOMINATE QUARTZ FRAMEWORK; FINE TO COARSE GRAINED WITH POOR SORTING; SUBANGULAR TO SUBROUNDED WITH MODERATE TO LOW SPHERICITY; EASILY FRIABLE TO FRIABLE WITH ABUNDANT LOOSE GRAINS IN SAMPLE; MATRIX SUPPORT; MODERATE REACTION WITH HCL SUGGESTS SOME CALCAREOUS CEMENT; NO VISIBLE BEDDING STRUCTURE; INTERBEDDED WITH CARBONACEOUS SHALE, SILTSTONE AND SHALE.

SILTSTONE = LIGHT BROWNISH GRAY TO MEDIUM LIGHT GRAY TO BROWNISH GRAY; TENACITY RANGES FROM DENSE TO BRITTLE TO OCCASIONALLY CRUNCHY; FRACTURES FROM IRREGULAR TO BLOCKY; CUTTINGS ARE TABULAR TO SLIGHTLY WEDGELIKE; WAXY TO DULL TO EARTHY TO OCCASIONALLY SLIGHTLY SPARKLING LUSTER; SILTY TO GRITTY TEXTURE; GRADING FROM SANDSTONE; THIN STRUCTURE.

SHALE = LIGHT GRAY TO MEDIUM GRAY TO MEDIUM DARK GRAY COLOR; DENSE TO BRITTLE



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