STRATAGRAPH
Accurate Data, Reliable Solutions

MEASURED DEPTH FORMATION EVALUATION & GAS ANALYSIS LOG

1" = 100'

COUNTY Matagorda County
FIELD Huebner
LOCATION Lat: 2961513.0
Long: 410858.0
WELL Golf Course #1
COMPANY Kebo Oil And Gas

COMPANY Kebo Oil And Gas
GEOLOGIST
WELL Golf Course #1
FIELD Huebner
COUNTY Matagorda County
STATE Texas

LOCATION
API SERIAL NO 42-321-32429
SEC
TWP
RANGE

OTHER SERVICES
5" MD LOG

SPUD DATE
LOGGING STARTED 9/24/2019
LOGGING FINISHED

TOTAL DEPTH @ 7000'
@

ELEV:
K.B. 58.9
D.F. 57.9
G.L. 43.4

BORE HOLE RECORD

HOLE SIZE	FROM	TO
8750	1600'	

CASING RECORD

SIZE	WGT.	FROM	TO
9 5/8	36 LB	Surface	1599'

DRILLING CONTRACTOR Lauson
RIG Lauson 2
REMARKS

PERSONNEL Rick Cauthen/Carlos Reyes

Disclaimer: STRATAGRAPH, INC. will make every effort to render our services efficiently and accurately, but will not be liable for failure to report or interpret its analysis correctly.

LEGEND

Abbreviations

BG	Background Gas	LAST	Log After Short Trip
CB	Corebit	MW	Mud Weight in lbs/gal
CG	Connection Gas	NCB	New Corebit
CK	Filter Cake	NB	New Bit
CKF	Check For Flow	NR	No Returns
CL	Salinity ppm	PDCB	Polycrystalline Diamond Compact Bit
CO	Circulate Out	PERF	Perforated
CR	Circulate Returns	PPM	Parts Per Million
CT	Carbide Test	PR	Poor
DB	Diamond Bit	PRT	Poor Returns
DBG	Drilling Background Gas	PV	Plastic Viscosity
DC	Depth correction	RM	Mud Resistivity OHM-METER
DCB	Diamond Corebit	RMC	Mud-Cake Resestivity OHM-METER
DF	Derrick Floor	RMF	Mud Filtrate Resestivity
DG	Drilling Gas	RPM	Revolutions Per Minute
DS	Directional Survey	RRB	Return Bit
DST	Drill Stem Test	RT	Rotary Table
EL	Electric Log	SF	Sea Floor
E.M.A.	Equivalent Methane Gas	SO	Show Of Oil
F	Filtrates API cc's	SOL	Solids %
F/T	Flowline Temperature	SPP	Stand Pipe Pressure
FR	Fair	STG	Short Trip Gas
FV	Funnel Viscosity API sec	SWG	Swab Gas
GCM	Gas Cut Mud	SVG	Survey Gas
GCW	Gas Cut Water	S/T	Suction Temperature
GD	Good	TB	Turbo Drill
G&OCM	Gas & Oil Cut Mud	TD	Total Depth
GL	Ground Level	TCL	Trip Chlorides
GTT	Gas Trip Test	TG	Trip Gas
KB	Kelley bushing	TVD	Total Vertical Depth
LAT	Log After Trip	WOB	Weight On Bit

NOTE: All Lithological Symbols are as per the Shell Oil Exploration Training Manual, Acknowledged by the American Association of Petroleum Geologists.

Lithology Symbols

CLAY
MARL
SILT
LIMESTONE
LIMONITE
GYPSUM
DOLOMITE
ANHYDRITE
CHERT
SALT
COAL
SHALE
SANDSTONE
SAND
CHALK
ASH

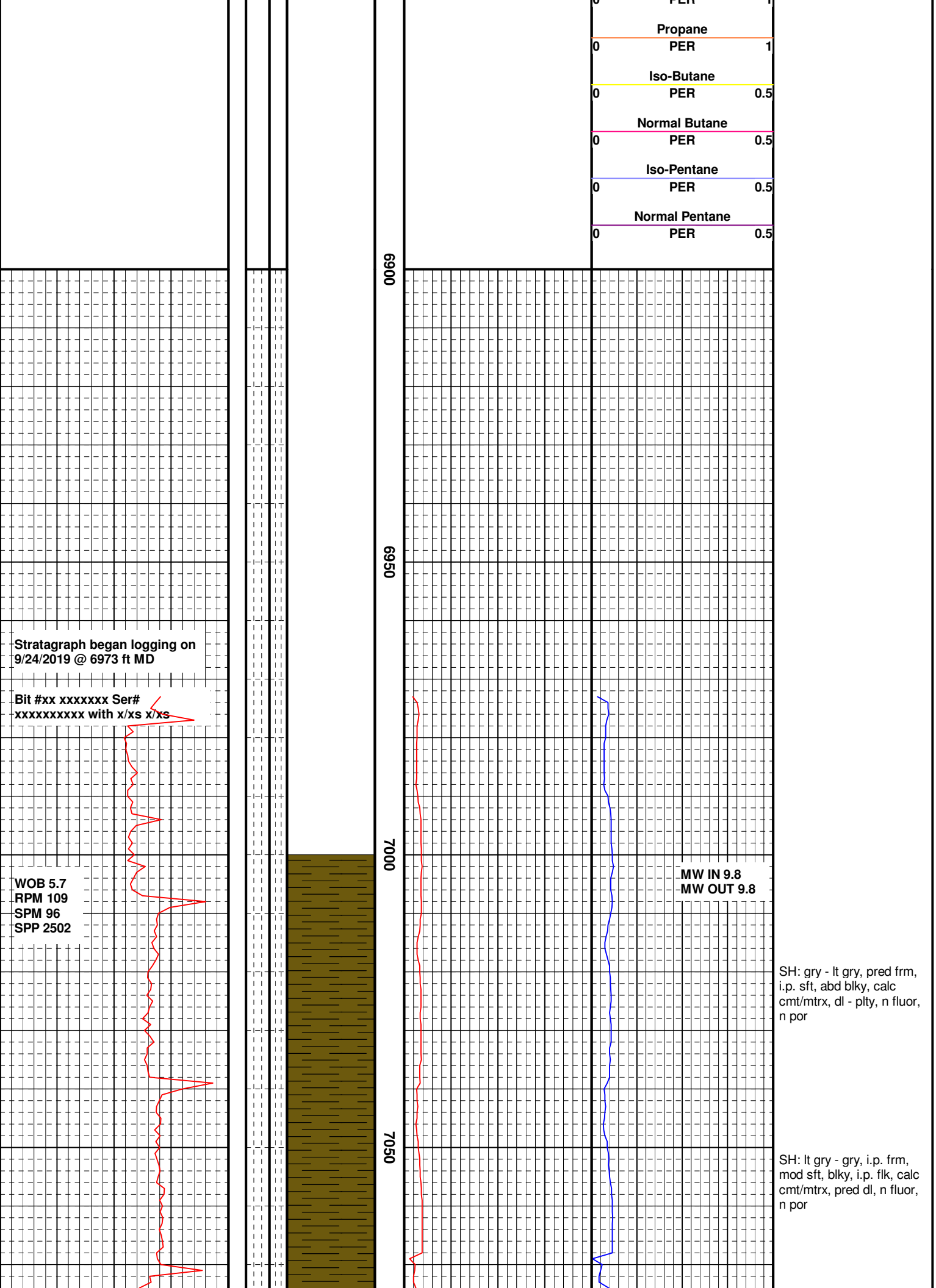
Other Symbols

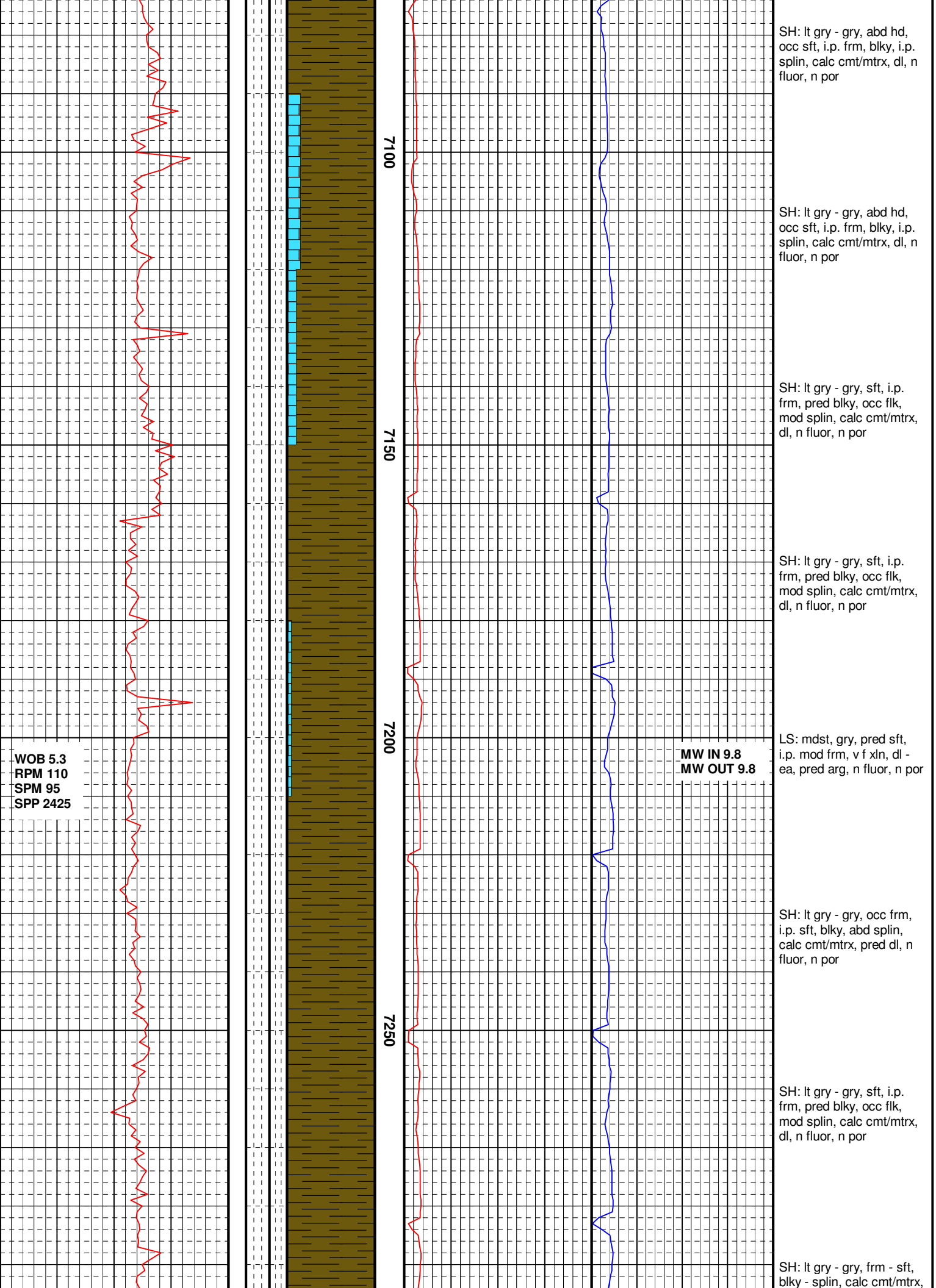
CASING SEAT
CORED INTERVAL
NO RECOVERY
SIDEWALL CORE
TEST INTERVAL
WIRELINE TEST

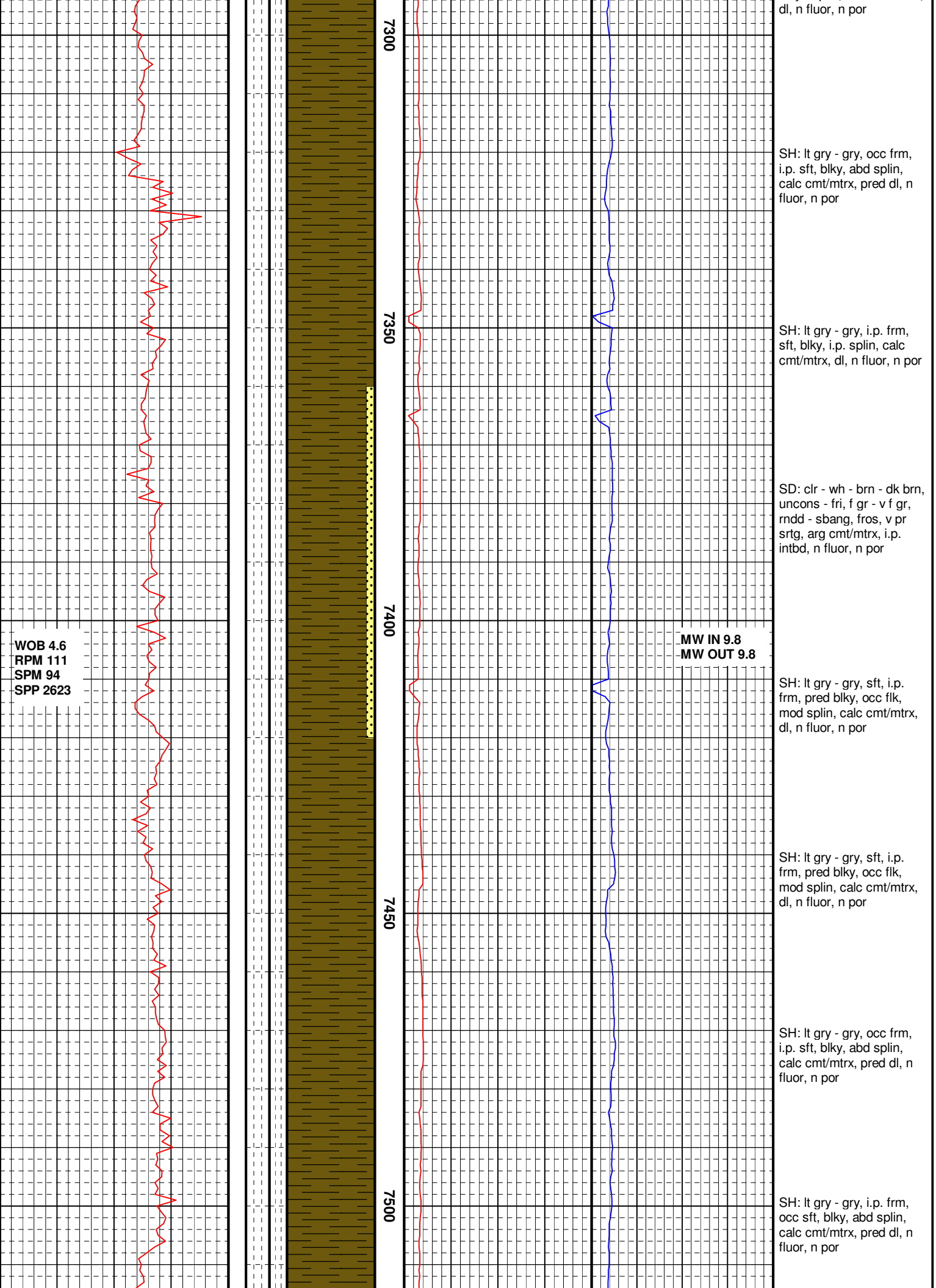
Oil Show
Gas Show
TRACE
FAIR
GOOD

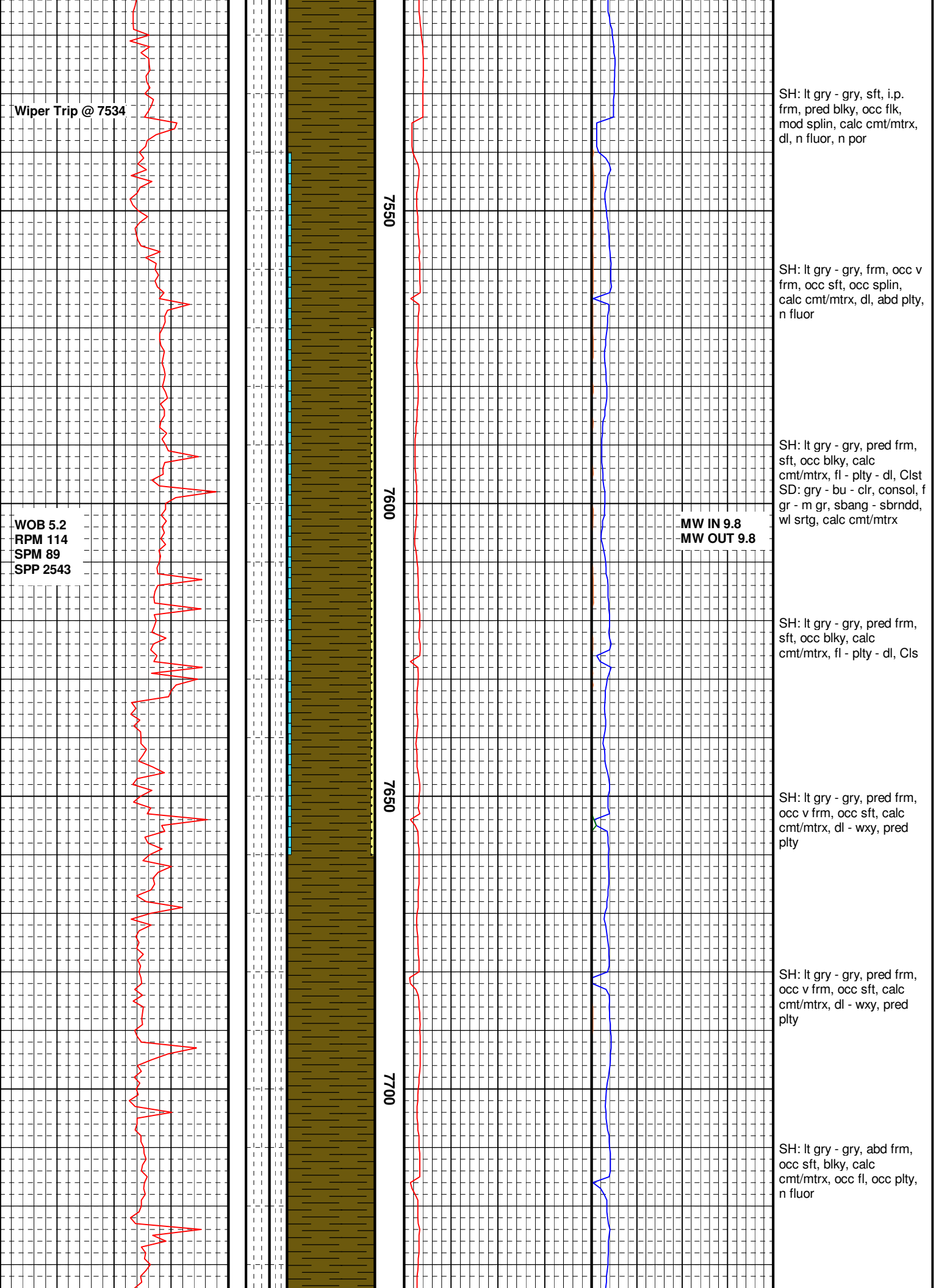
FLUORESCENCE
(F) Bright (F) Dull (F) Mineral

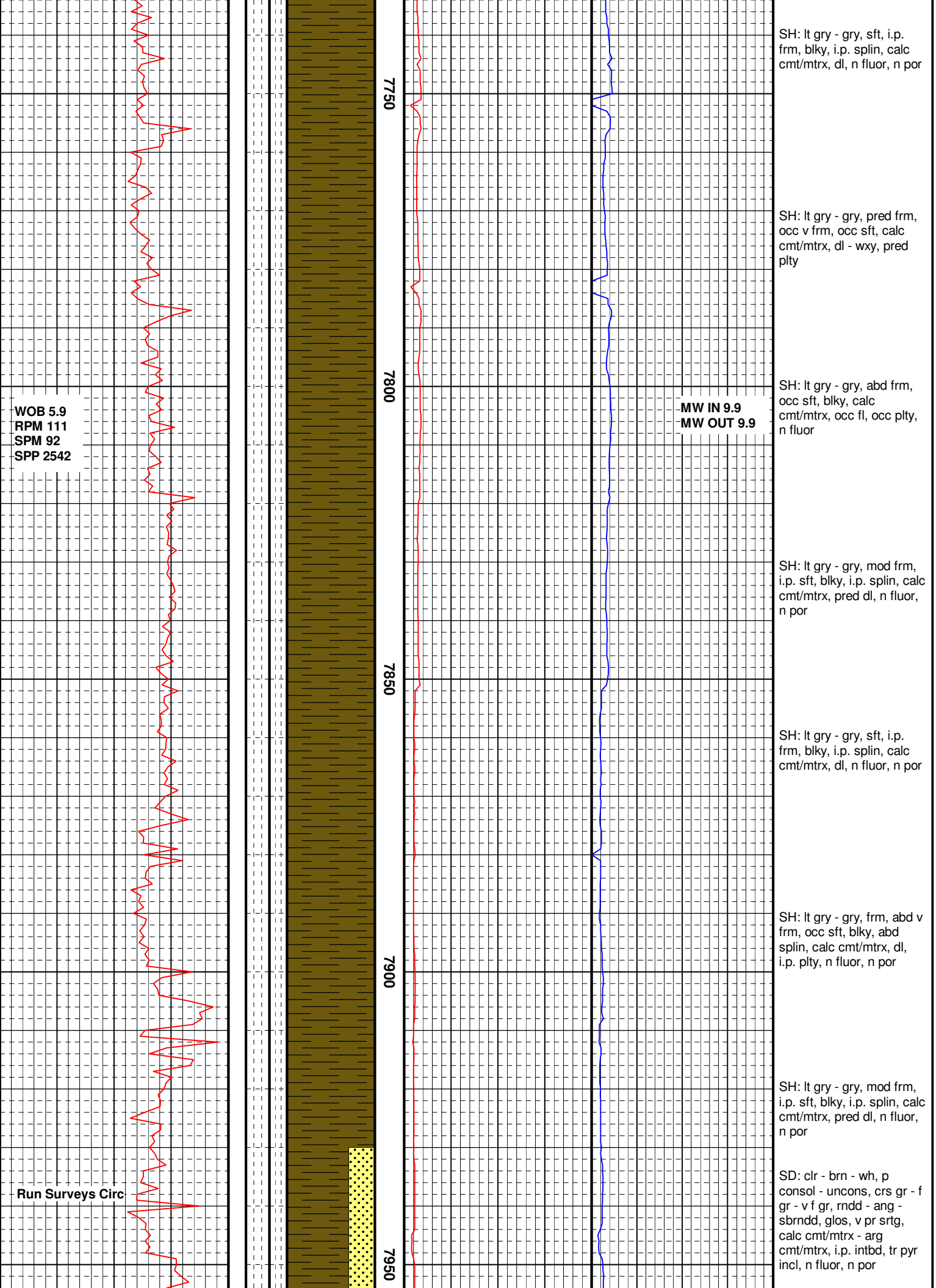
ROP	Slide	Oil	Gas	% Lith	Depth	Gas	Chromatograph	Descriptions
Instant ROP 200 FPH 0						Total Gas 0 Unit 300	Methane 0 PER 2 Ethane 0 PER 1	

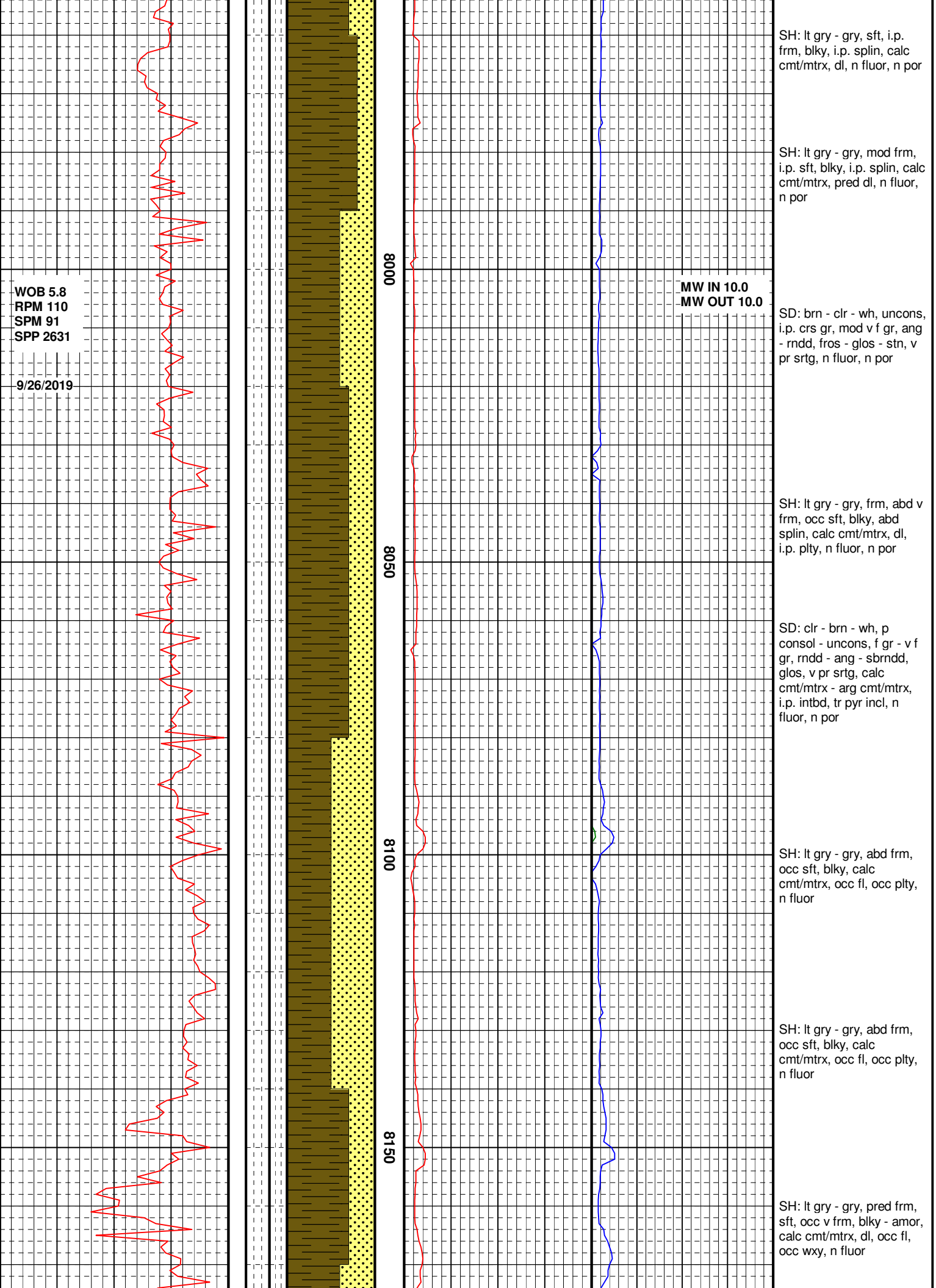

Propane
0 PER 1
Iso-Butane
0 PER 0.5
Normal Butane
0 PER 0.5
Iso-Pentane
0 PER 0.5
Normal Pentane
0 PER 0.5
6900
6950
7000
7050
Stratagraph began logging on 9/24/2019 @ 6973 ft MD
Bit #xx xxxxxxx Ser# xxxxxxxxxx with x/xs x/xs
WOB 5.7
RPM 109
SPM 96
SPP 2502
MW IN 9.8
MW OUT 9.8
SH: gry - lt gry, pred frm, i.p. sft, abd blky, calc cmt/mtrx, dl - plty, n fluor, n por
SH: lt gry - gry, i.p. frm, mod sft, blky, i.p. flk, calc cmt/mtrx, pred dl, n fluor, n por

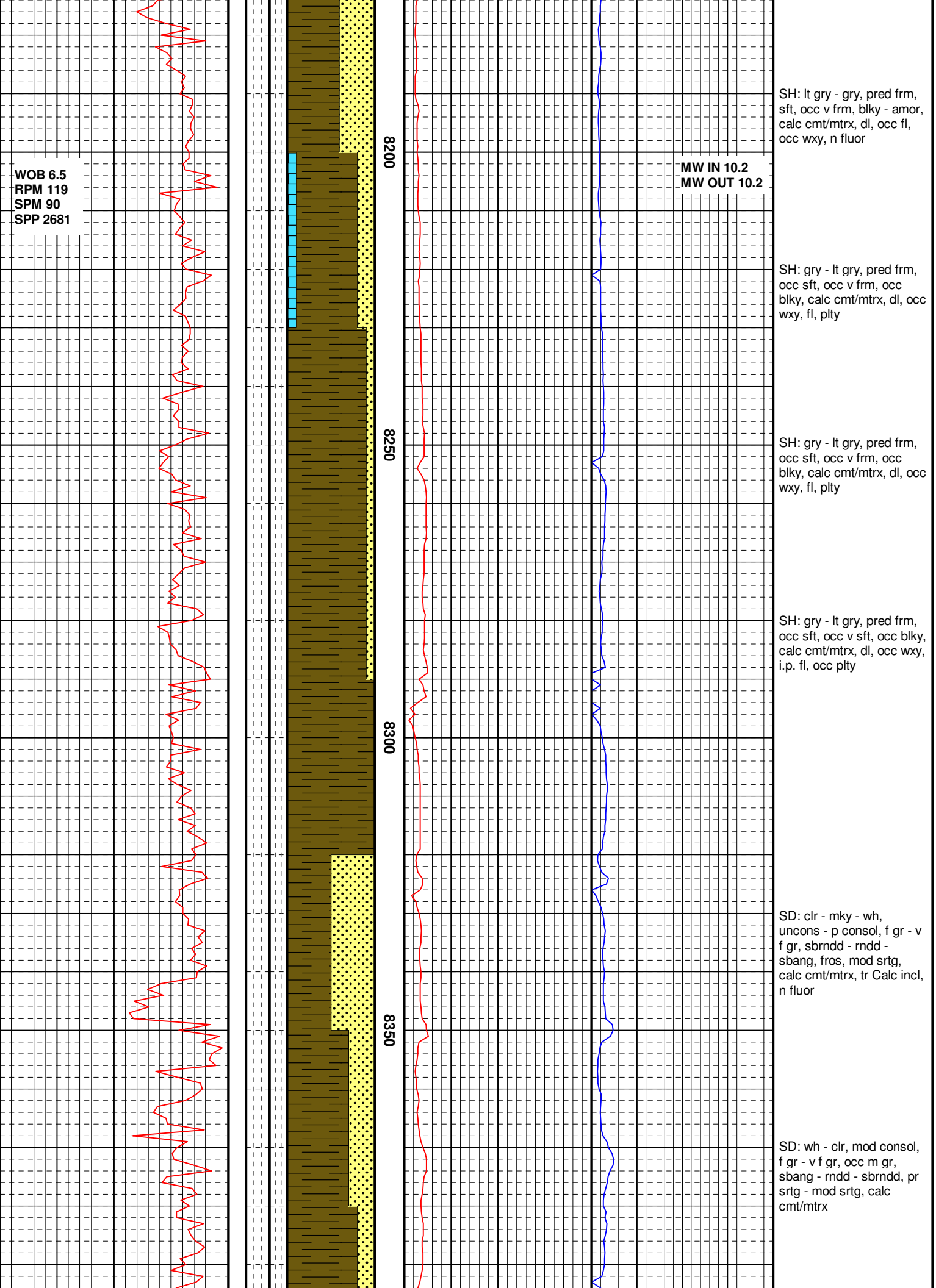

7100
7150
7200
7250
WOB 5.3
RPM 110
SPM 95
SPP 2425
MW IN 9.8
MW OUT 9.8
SH: lt gry - gry, abd hd, occ sft, i.p. frm, blky, i.p. splin, calc cmt/mtrx, dl, n fluor, n por
SH: lt gry - gry, abd hd, occ sft, i.p. frm, blky, i.p. splin, calc cmt/mtrx, dl, n fluor, n por
SH: lt gry - gry, sft, i.p. frm, pred blky, occ flk, mod splin, calc cmt/mtrx, dl, n fluor, n por
SH: lt gry - gry, sft, i.p. frm, pred blky, occ flk, mod splin, calc cmt/mtrx, dl, n fluor, n por
LS: mdst, gry, pred sft, i.p. mod frm, v f xln, dl - ea, pred arg, n fluor, n por
SH: lt gry - gry, occ frm, i.p. sft, blky, abd splin, calc cmt/mtrx, pred dl, n fluor, n por
SH: lt gry - gry, sft, i.p. frm, pred blky, occ flk, mod splin, calc cmt/mtrx, dl, n fluor, n por
SH: lt gry - gry, frm - sft, blky - splin, calc cmt/mtrx,

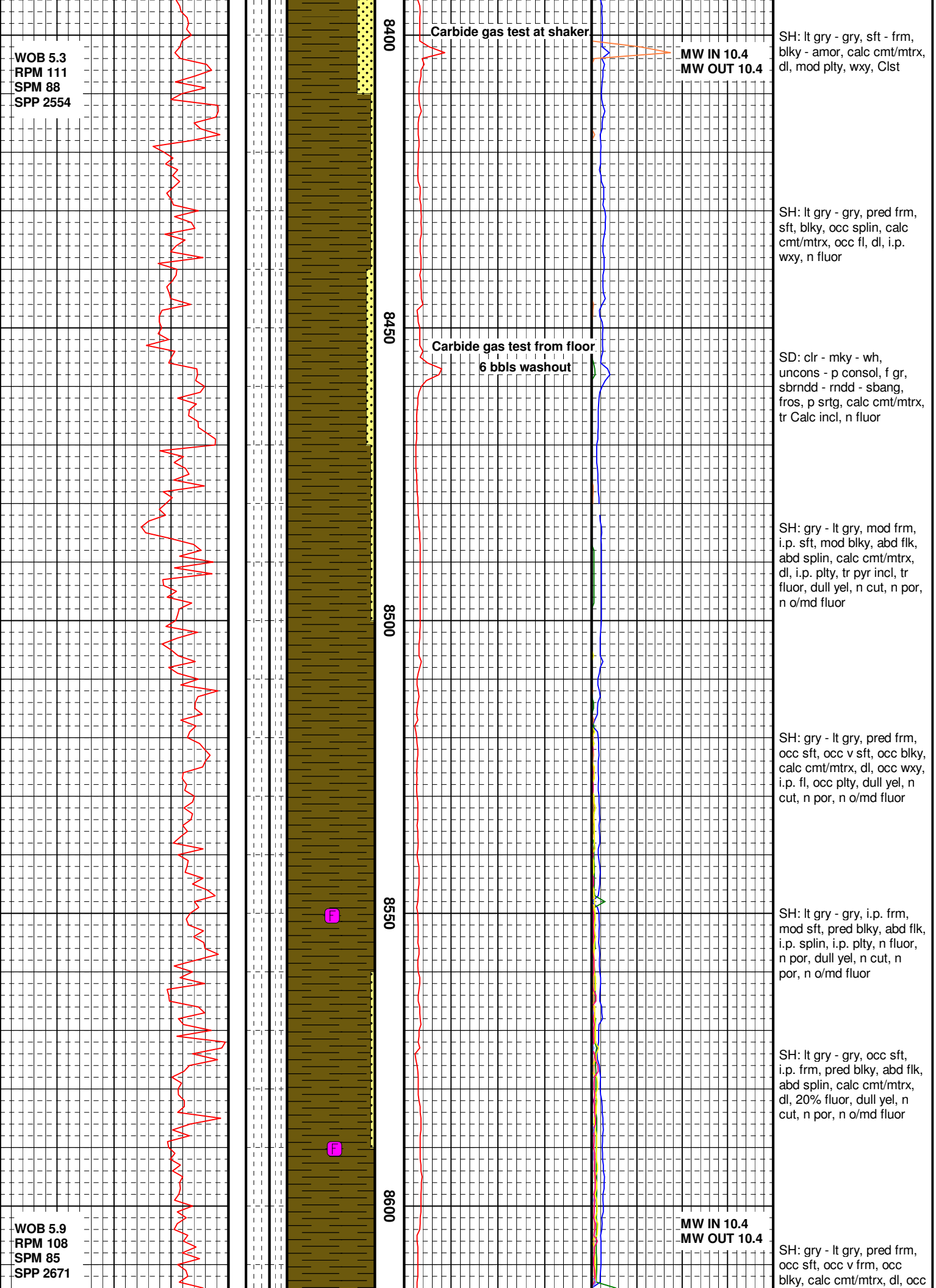

7300
7350
7400
7450
7500
WOB 4.6
RPM 111
SPM 94
SPP 2623
MW IN 9.8
MW OUT 9.8
dl, n fluor, n por
SH: lt gry - gry, occ frm, i.p. sft, blky, abd splin, calc cmt/mtrx, pred dl, n fluor, n por
SH: lt gry - gry, i.p. frm, sft, blky, i.p. splin, calc cmt/mtrx, dl, n fluor, n por
SD: clr - wh - brn - dk brn, uncons - fri, f gr - v f gr, rndd - sbang, fros, v pr srtg, arg cmt/mtrx, i.p. intbd, n fluor, n por
SH: lt gry - gry, sft, i.p. frm, pred blky, occ flk, mod splin, calc cmt/mtrx, dl, n fluor, n por
SH: lt gry - gry, sft, i.p. frm, pred blky, occ flk, mod splin, calc cmt/mtrx, dl, n fluor, n por
SH: lt gry - gry, occ frm, i.p. sft, blky, abd splin, calc cmt/mtrx, pred dl, n fluor, n por
SH: lt gry - gry, i.p. frm, occ sft, blky, abd splin, calc cmt/mtrx, pred dl, n fluor, n por

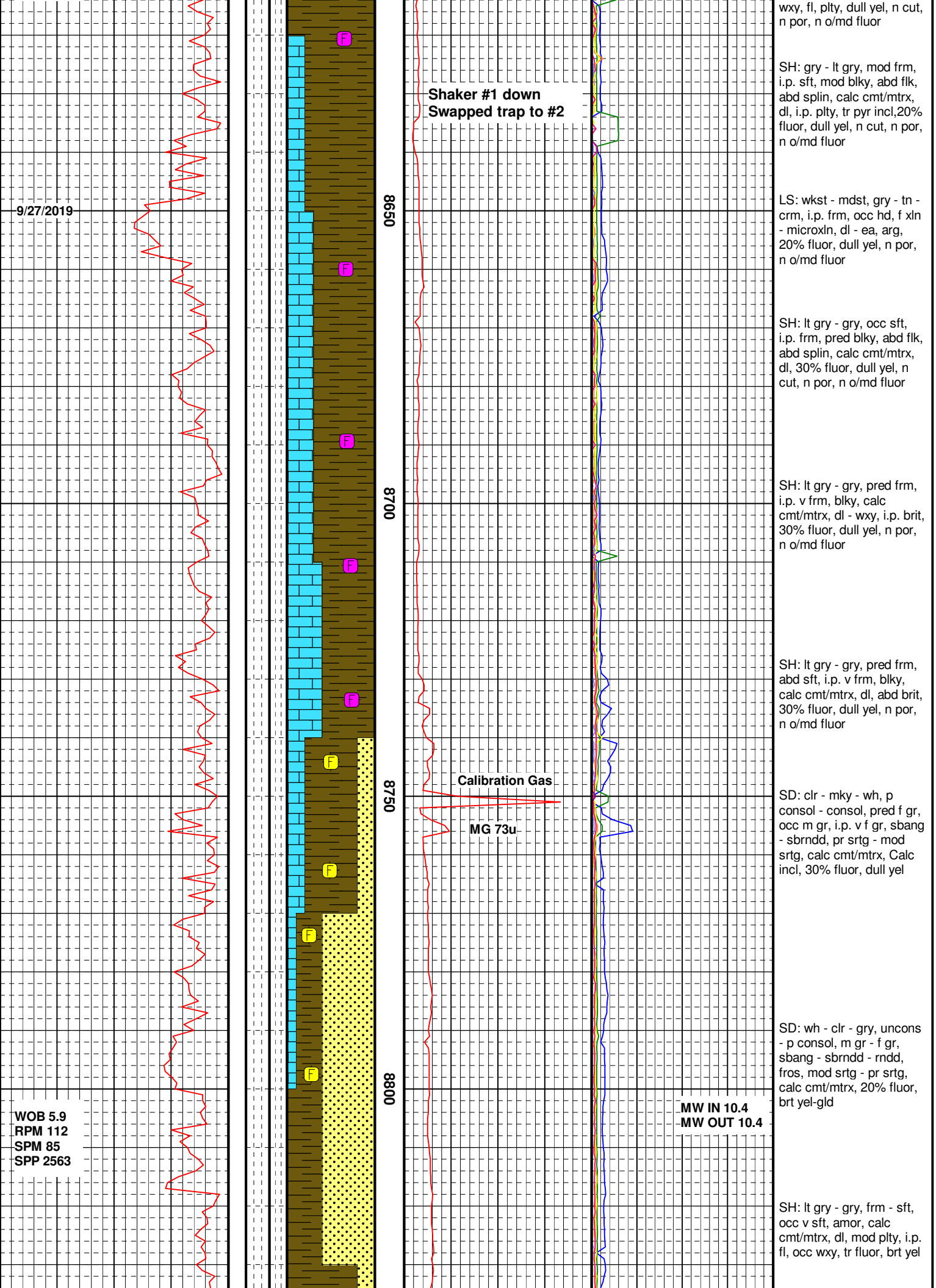

Wiper Trip @ 7534
WOB 5.2
RPM 114
SPM 89
SPP 2543
7550
7600
7650
7700
MW IN 9.8
MW OUT 9.8
SH: lt gry - gry, sft, i.p. frm, pred blky, occ flk, mod splin, calc cmt/mtrx, dl, n fluor, n por
SH: lt gry - gry, frm, occ v frm, occ sft, occ splin, calc cmt/mtrx, dl, abd plty, n fluor
SH: lt gry - gry, pred frm, sft, occ blky, calc cmt/mtrx, fl - plty - dl, Clst
SD: gry - bu - clr, consol, f gr - m gr, sbang - sbrndd, wl srtg, calc cmt/mtrx
SH: lt gry - gry, pred frm, sft, occ blky, calc cmt/mtrx, fl - plty - dl, Cls
SH: lt gry - gry, pred frm, occ v frm, occ sft, calc cmt/mtrx, dl - wxy, pred plty
SH: lt gry - gry, pred frm, occ v frm, occ sft, calc cmt/mtrx, dl - wxy, pred plty
SH: lt gry - gry, abd frm, occ sft, blky, calc cmt/mtrx, occ fl, occ plty, n fluor

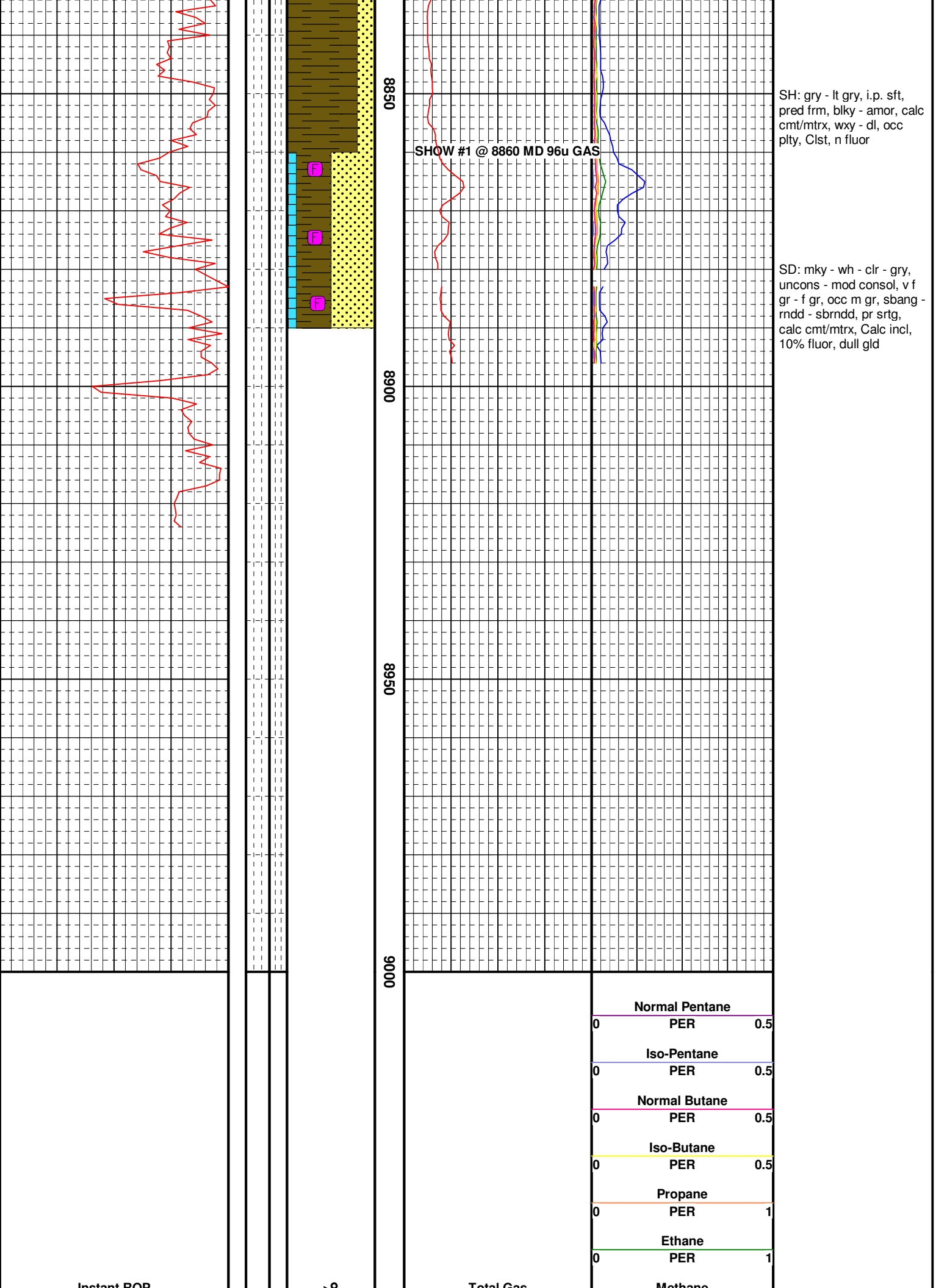

7750
7800
7850
7900
7950
WOB 5.9
RPM 111
SPM 92
SPP 2542
MW IN 9.9
MW OUT 9.9
Run Surveys Circ
SH: lt gry - gry, sft, i.p. frm, blky, i.p. splin, calc cmt/mtrx, dl, n fluor, n por
SH: lt gry - gry, pred frm, occ v frm, occ sft, calc cmt/mtrx, dl - wxy, pred plty
SH: lt gry - gry, abd frm, occ sft, blky, calc cmt/mtrx, occ fl, occ plty, n fluor
SH: lt gry - gry, mod frm, i.p. sft, blky, i.p. splin, calc cmt/mtrx, pred dl, n fluor, n por
SH: lt gry - gry, sft, i.p. frm, blky, i.p. splin, calc cmt/mtrx, dl, n fluor, n por
SH: lt gry - gry, frm, abd v frm, occ sft, blky, abd splin, calc cmt/mtrx, dl, i.p. plty, n fluor, n por
SH: lt gry - gry, mod frm, i.p. sft, blky, i.p. splin, calc cmt/mtrx, pred dl, n fluor, n por
SD: clr - brn - wh, p consol - uncons, crs gr - f gr - v f gr, rndd - ang - sbrndd, glos, v pr srtg, calc cmt/mtrx - arg cmt/mtrx, i.p. intbd, tr pyr incl, n fluor, n por

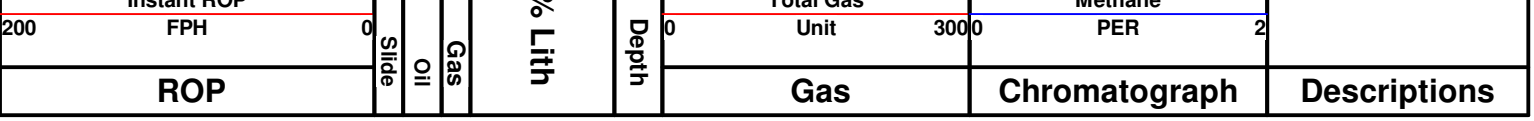

WOB 5.8
RPM 110
SPM 91
SPP 2631
9/26/2019
8000
8050
8100
8150
MW IN 10.0
MW OUT 10.0
SH: lt gry - gry, sft, i.p. frm, blky, i.p. splin, calc cmt/mtrx, dl, n fluor, n por
SH: lt gry - gry, mod frm, i.p. sft, blky, i.p. splin, calc cmt/mtrx, pred dl, n fluor, n por
SD: brn - clr - wh, uncons, i.p. crs gr, mod v f gr, ang - rndd, fros - glos - stn, v pr srtg, n fluor, n por
SH: lt gry - gry, frm, abd v frm, occ sft, blky, abd splin, calc cmt/mtrx, dl, i.p. plty, n fluor, n por
SD: clr - brn - wh, p consol - uncons, f gr - v f gr, rndd - ang - sbrndd, glos, v pr srtg, calc cmt/mtrx - arg cmt/mtrx, i.p. intbd, tr pyr incl, n fluor, n por
SH: lt gry - gry, abd frm, occ sft, blky, calc cmt/mtrx, occ fl, occ plty, n fluor
SH: lt gry - gry, abd frm, occ sft, blky, calc cmt/mtrx, occ fl, occ plty, n fluor
SH: lt gry - gry, pred frm, sft, occ v frm, blky - amor, calc cmt/mtrx, dl, occ fl, occ wxy, n fluor


WOB 6.5
RPM 119
SPM 90
SPP 2681
8200
8250
8300
8350
MW IN 10.2
MW OUT 10.2
SH: lt gry - gry, pred frm, sft, occ v frm, blky - amor, calc cmt/mtrx, dl, occ fl, occ wxy, n fluor
SH: gry - lt gry, pred frm, occ sft, occ v frm, occ blky, calc cmt/mtrx, dl, occ wxy, fl, plty
SH: gry - lt gry, pred frm, occ sft, occ v frm, occ blky, calc cmt/mtrx, dl, occ wxy, fl, plty
SH: gry - lt gry, pred frm, occ sft, occ v sft, occ blky, calc cmt/mtrx, dl, occ wxy, i.p. fl, occ plty
SD: clr - mky - wh, uncons - p consol, f gr - v f gr, sbrndd - rndd - sbang, fros, mod srtg, calc cmt/mtrx, tr Calc incl, n fluor
SD: wh - clr, mod consol, f gr - v f gr, occ m gr, sbang - rndd - sbrndd, pr srtg - mod srtg, calc cmt/mtrx


WOB 5.3
RPM 111
SPM 88
SPP 2554
8400
Carbide gas test at shaker
MW IN 10.4
MW OUT 10.4
SH: lt gry - gry, sft - frm, blky - amor, calc cmt/mtrx, dl, mod plty, wxy, Clst
SH: lt gry - gry, pred frm, sft, blky, occ splin, calc cmt/mtrx, occ fl, dl, i.p. wxy, n fluor
8450
Carbide gas test from floor
6 bbls washout
SD: clr - mky - wh, uncons - p consol, f gr, sbrndd - rndd - sbang, fros, p srtg, calc cmt/mtrx, tr Calc incl, n fluor
8500
SH: gry - lt gry, mod frm, i.p. sft, mod blky, abd flk, abd splin, calc cmt/mtrx, dl, i.p. plty, tr pyr incl, tr fluor, dull yel, n cut, n por, n o/md fluor
SH: gry - lt gry, pred frm, occ sft, occ v sft, occ blky, calc cmt/mtrx, dl, occ wxy, i.p. fl, occ plty, dull yel, n cut, n por, n o/md fluor
8550
F
SH: lt gry - gry, i.p. frm, mod sft, pred blky, abd flk, i.p. splin, i.p. plty, n fluor, n por, dull yel, n cut, n por, n o/md fluor
F
SH: lt gry - gry, occ sft, i.p. frm, pred blky, abd flk, abd splin, calc cmt/mtrx, dl, 20% fluor, dull yel, n cut, n por, n o/md fluor
8600
WOB 5.9
RPM 108
SPM 85
SPP 2671
MW IN 10.4
MW OUT 10.4
SH: gry - lt gry, pred frm, occ sft, occ v frm, occ blky, calc cmt/mtrx, dl, occ


9/27/2019
Shaker #1 down
Swapped trap to #2
8650
8700
8750
8800
Calibration Gas
MG 73u
WOB 5.9
RPM 112
SPM 85
SPP 2563
MW IN 10.4
MW OUT 10.4
wxy, fl, plty, dull yel, n cut, n por, n o/md fluor
SH: gry - lt gry, mod frm, i.p. sft, mod blky, abd flk, abd splin, calc cmt/mtrx, dl, i.p. plty, tr pyr incl,20% fluor, dull yel, n cut, n por, n o/md fluor
LS: wkst - mdst, gry - tn - crm, i.p. frm, occ hd, f xln - microxln, dl - ea, arg, 20% fluor, dull yel, n por, n o/md fluor
SH: lt gry - gry, occ sft, i.p. frm, pred blky, abd flk, abd splin, calc cmt/mtrx, dl, 30% fluor, dull yel, n cut, n por, n o/md fluor
SH: lt gry - gry, pred frm, i.p. v frm, blky, calc cmt/mtrx, dl - wxy, i.p. brit, 30% fluor, dull yel, n por, n o/md fluor
SH: lt gry - gry, pred frm, abd sft, i.p. v frm, blky, calc cmt/mtrx, dl, abd brit, 30% fluor, dull yel, n por, n o/md fluor
SD: clr - mky - wh, p consol - consol, pred f gr, occ m gr, i.p. v f gr, sbang - sbrndd, pr srtg - mod srtg, calc cmt/mtrx, Calc incl, 30% fluor, dull yel
SD: wh - clr - gry, uncons - p consol, m gr - f gr, sbang - sbrndd - rndd, fros, mod srtg - pr srtg, calc cmt/mtrx, 20% fluor, brt yel-gld
SH: lt gry - gry, frm - sft, occ v sft, amor, calc cmt/mtrx, dl, mod plty, i.p. fl, occ wxy, tr fluor, brt yel


8850
8900
8950
9000
SHOW #1 @ 8860 MD 96u GAS
F
F
F
SH: gry - lt gry, i.p. sft, pred frm, blky - amor, calc cmt/mtrx, wxy - dl, occ plty, Clst, n fluor
SD: mky - wh - clr - gry, uncons - mod consol, v f gr - f gr, occ m gr, sbang - rndd - sbrndd, pr srtg, calc cmt/mtrx, Calc incl, 10% fluor, dull gld
Normal Pentane
0 PER 0.5
Iso-Pentane
0 PER 0.5
Normal Butane
0 PER 0.5
Iso-Butane
0 PER 0.5
Propane
0 PER 1
Ethane
0 PER 1
Instant ROP
Total Gas
Methane


Instant ROP
200
FPH
0
Slide
Oil
Gas
% Lith
Depth
Total Gas
0
Unit
300
Methane
0
PER
2
ROP
Gas
Chromatograph
Descriptions