

RIG MONITORING
FORMATION EVALUATION LOG

Country : Australia
Field : ZaneGrey / Gippsland Basin
Location : Lat: 38° 34' 31.64" South
Long: 147° 59' 16.27" East
Well : ZaneGrey-1 ST2
Company : Bass Strait Oil Company Ltd
Rig : Ocean Patriot

LOCATION

Latitude : 38° 34' 31.64" South
Longitude : 147° 59' 16.27" East
UTM Easting = 586,049.89 m
UTM Northing = 5,729,856.42 m

Other Services

Permanent Datum : Mean Sea Level
Log Measured From : Drill Floor
Drilling Measured From : Drill Floor
Elevation : 0.00 m
21.50 m Above Permanent Datum

MD LOG

Elev. KB 0.00 m
DF 21.50 m
GL 0.00 m
WD 72.50 m

Depth Logged : 3,075.00 m To 3,675.00 m
Date Logged : 27-Jan-05 To 10-Mar-05
Total Depth MD : 3,675.00 m TVD : 3,219.80 m

Spud Date : 27-Jan-05
Plot Type : Final
Plot Date : 23-Jun-05

Run No. : 11
Size : 216,000 mm
Borehole Record (MD)
From : 3,075.00 m To : 3,675.00 m

Run No. :
Size :
Borehole Record (MD)
From : To :
Casing Record (MD)
From : To :
Size :
Weight :
From : To :

LEGEND

Abbreviations and Symbols

Drilling Data		Mud Data			
BG	Background Gas	Cl-	Chloride Ion Conc	Rm	Mud Resistivity
BHT	Bottomhole Temp	FC	Filter Cake	Rmf	Filtrate Resistivity
C	Carbide Test	FL	Filtrate Loss	S	Solids Content
CB	Core Bit	G	Gels	Vis	Funnel Viscosity
CG	Connection Gas	pH	Hydrogen Ion Content	MW	Mud Weight
CKF	Check For Flow	PV	Plastic Viscosity	YP	Yield Point
CO	Circulate Out	Engineering Data			
DB	Diamond Bit				
DC	Depth Correction				
DS	Direction Survey				
DST	Drillstem Test				
FLT	Flowline Temp.				
LAT	Logged After Trip				
NB	New Bit				
NR	No Returns				
PDC	Polycrystalline Diamond				
PR	Partial Returns				
RPM	Revs Per Minute				
RRB	Rerun Bit				
STG	Short Trip Gas				
TB	Turbo Drill				
TG	Trip Gas				
U	Gas Units				
WOB	Weight On Bit				

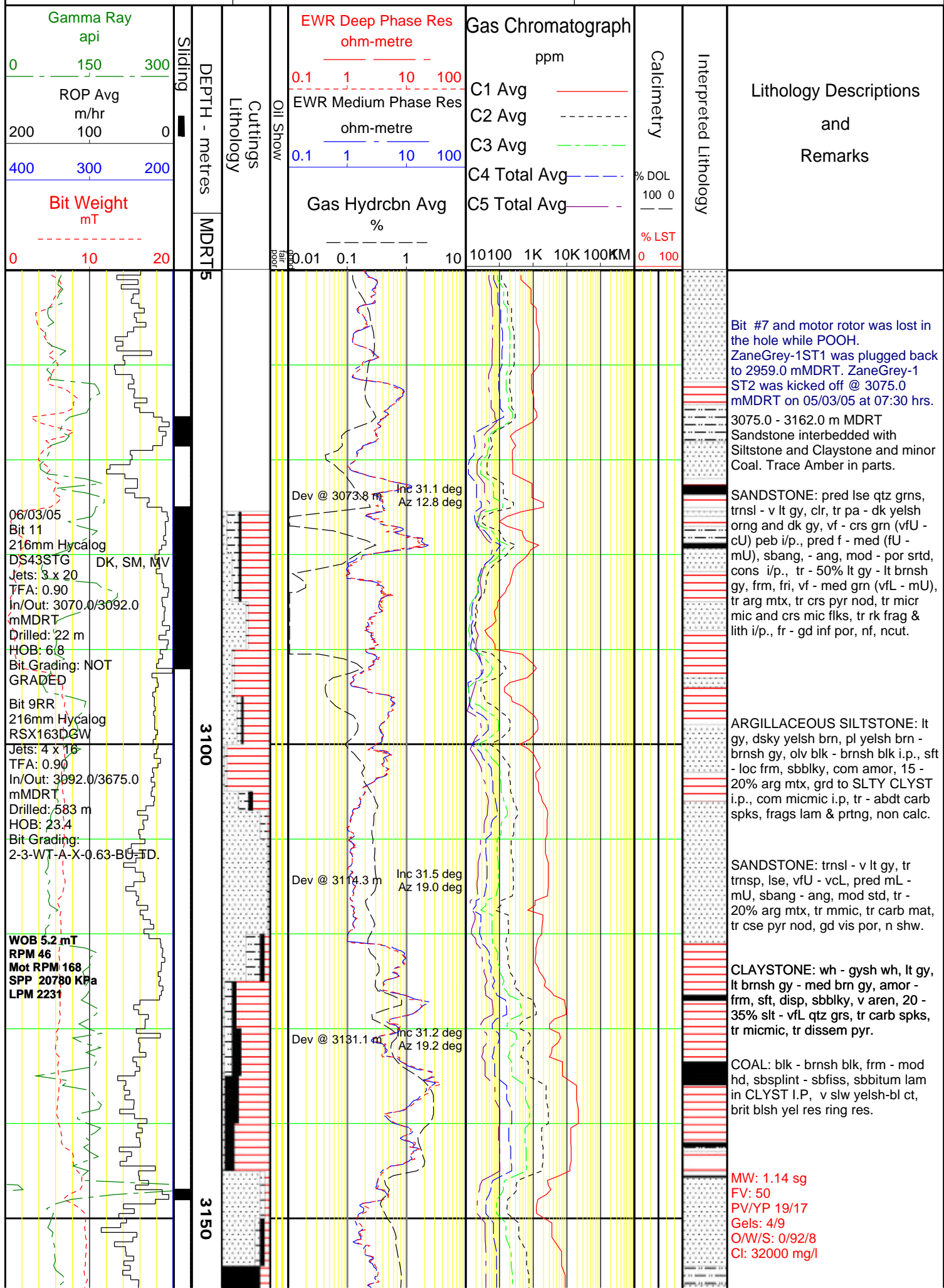
Lithology Symbols

	Sandstone		Calcisiltite
	Silty Sandstone		Calcarenite
	Silt		Mudstone
	Siltstone		Marl
	Clay		Glauconitic Sandstone
	Claystone		Chert
	Calcareous Claystone		Conglomerate
	Limestone		Igneous
	Dolomite		Coal
	Calclutite		No Sample

Bitumen

Pressure Integrity
Test

No Sample



08-03-05

WOB 2.7 m
RPM 79
Mot RPM 180
SPP 19455 KPa
LPM 2273

3200

3250

Dev @ 3159.2 m Inc 30.3 deg
Az 18.4 deg

FUNCTION TEST GAS
SYSTEM _TESTED OK

Dev @ 3188.5 m Inc 29.2 deg
Az 18.6 deg

Dev @ 3217.3 m Inc 28.3 deg
Az 18.4 deg

Dev @ 3276.1 m Inc 27.3 deg
Az 18.2 deg

ISOTUBE SAMPLING
3266.0 mMDRT G.U 0.11%

ISOTUBE SAMPLING
3303.0 mMDRT G.U 0.53%

3162.0 - 3200.0 mMDRT
Interbedded Claystone, Coal
and Sandstone with minor
Argillaceous Siltstone
**TOP DRIVE SYSTEM
FAILURE_EFFECT REPAIRS**

COAL: blk - brnsh blk, frm - mod
hd, sbsplint - sbfiss, v slw yelsh-bl
ct, brit blsh yel res ring res

SANDSTONE: trnsl - v lt gy, clr,
vfU - vcL, pred fL - fU, sbrnd - rnd,
pr std, tr - 5% arg mtx, tr mmic,
mod vis por, n shw.

MW: 1.17 sg
FV: 59
PV/YP 15/25
Gels: 3/7
O/W/S: 0/92/8
Cl: 34500 mg/l

3200.0 - 3230.0 mMDRT
Interbedded Claystone, Sandstone
with trace Coal.

CLAYSTONE: md-dk brnsh gry,
frm, carb w fn coaly lam. i.p slty

CLAYSTONE: wh - gysh wh, frm,
carb w fn coaly lam. i.p slty

3230.0 - 3260.0 mMDRT
Interbedded Sandstone, Siltstone
and Claystone with minor Coal.
SANDSTONE: trnsl - v lt gy, clr,
vfU - vcL, pred fL - fU, sbrnd - rnd,
pr std, tr - 5% arg mtx, tr mmic,
mod vis por, n shw.
CLAYSTONE (SILTY) med - dk
brnsh gy,
frm, am w/ 20 - 35% slt, - vf (vfL)
qtz grns,
carb w f coal lam.

COAL: blk - brnsh blk, frm - mod
hd, sbsplint - sbfiss, v slw yelsh-bl
ct, brit blsh yel res ring res

3260.0 - 3310.0 mMDRT
Interbedded Sandstone, Siltstone
and Claystone, with minor Coal.

CLAYSTONE: wh - gysh wh, lt gy,
lt brnsh gy - med brn gy, amor -
frm, sft, disp, sbbiky, v aren, 20 -
35% slt - vfL qtz grs, tr carb spks,
tr micmic, tr dissem pyr

CLAYSTONE: amor - frm, sft,
disp, sbbiky, v aren, slt - vfL qtz
grs, tr carb spks, tr micmic, tr
dissem pyr

WOB 10.5 mT
RPM 78
Mot RPM 183
SPP 21027 KPa
LPM 2313

WOB 8.0 mT
RPM 79
Mot RPM 182
SPP 20854 KPa
LPM 2302

3300

3350

3400

ISOTUBE SAMPLING
3314.0 mMDRT G.U. 15%

Dev @ 3333.3 m Inc 26.1 deg
Az 18.1 deg

CHROMATOGRAPH
SYSTEM OVER
SATURATED WITH
HYDROCARBONS DUE TO
SHORT RUN TIME. RESET
RUN TIME TO
ACCOMMODATED
HEAVIER
HYDROCARBONS

REMOVE SAVER SUB

Dev @ 3389.8 m Inc 25.7 deg
Az 18.4 deg

Dev @ 3417.1 m Inc 24.2 deg
Az 18.0 deg

SANDSTONE: trnsl - v lt gy, pred lse, vfU - vcL, pred fL - fU, sbrnd - rnd, pr std, tr - 5% arg mtx, tr mmic, mod vis por, v slw blsh ct, pchy blsh yel ring res.

COAL: brnsh blk - blk, frm - mod hd, sbsplint - sbfiss, sbbitum, thn sltst lam, v slw yelsh-bl ct, pa blsh yel res ring res

3310.0 - 3350.0 mMDRT
Sandstone with interbedded Siltstone and Claystone with minor Coal.

3350.0 - 3370.0 mMDRT
Quartz Sandstone.

SANDSTONE: lse qtz grns, clr - trnsl, v lt gy orng, pa - dk yelsh orng, med - vcrs grn (mL - vcU), abund, frac, peb, pred med - crs (mU-cl), crs w/ dep, pr srtd, tr micr mic, nil - tr carb flks & lam, gd vis por, nfl, ncut.

3370.0 - 3410.0 mMDRT
Sandstone with interbedded Siltstone and Silty Claystone, with minor Coal.

COAL: brnsh blk - blk, frm - mod hd, sbsplint - sbfiss, sbbitum, thn sltst lam, v slw yelsh-bl ct, pa blsh yel res ring res

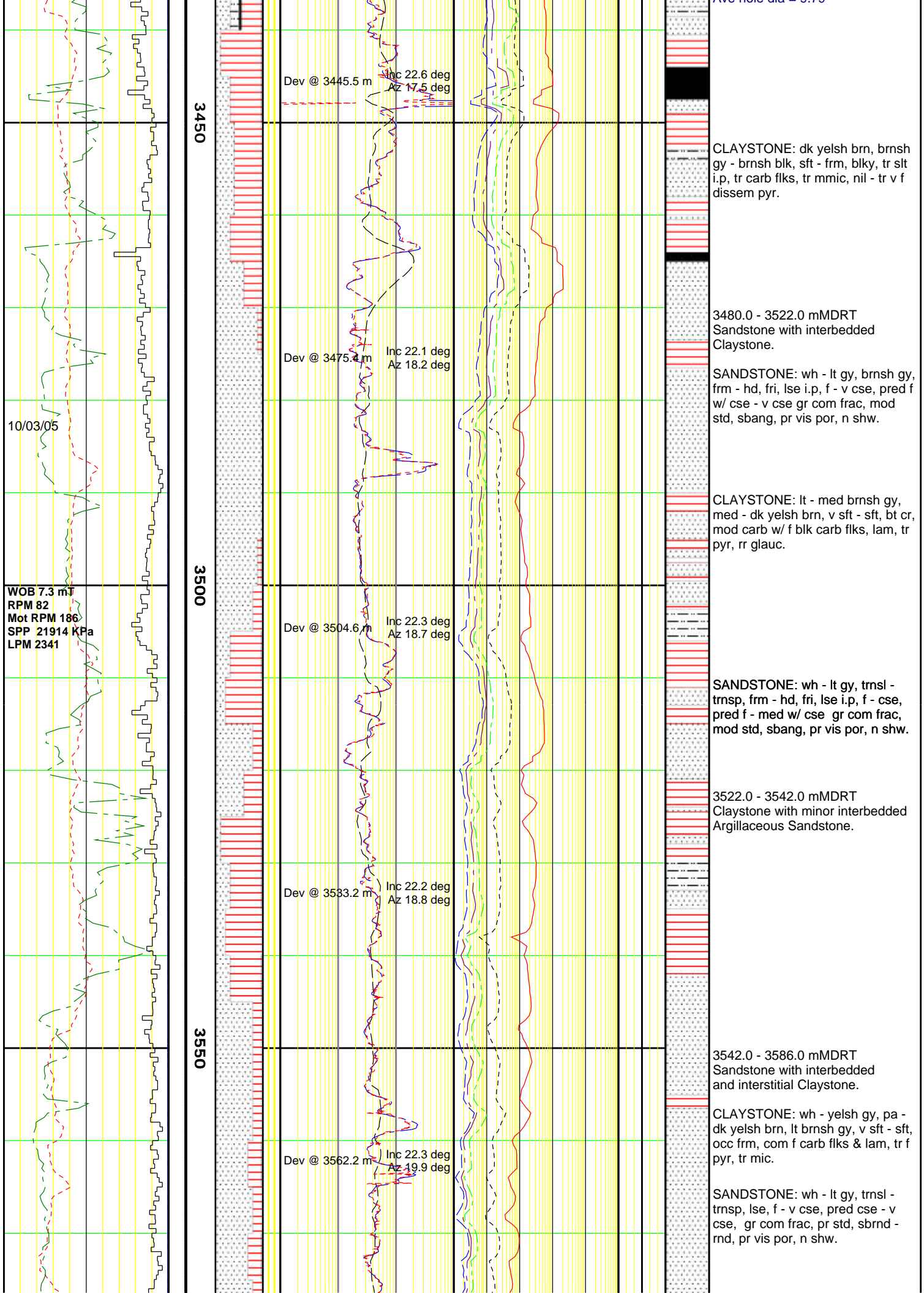
CLAYSTONE: wh - gysh wh, mod - dk yelsh brn & med - dk brnsh gy, disp - frm, sft, sbblky, v aren, 20 - 30% slt - vL qtz grs, tr carb w/ f coal lam.

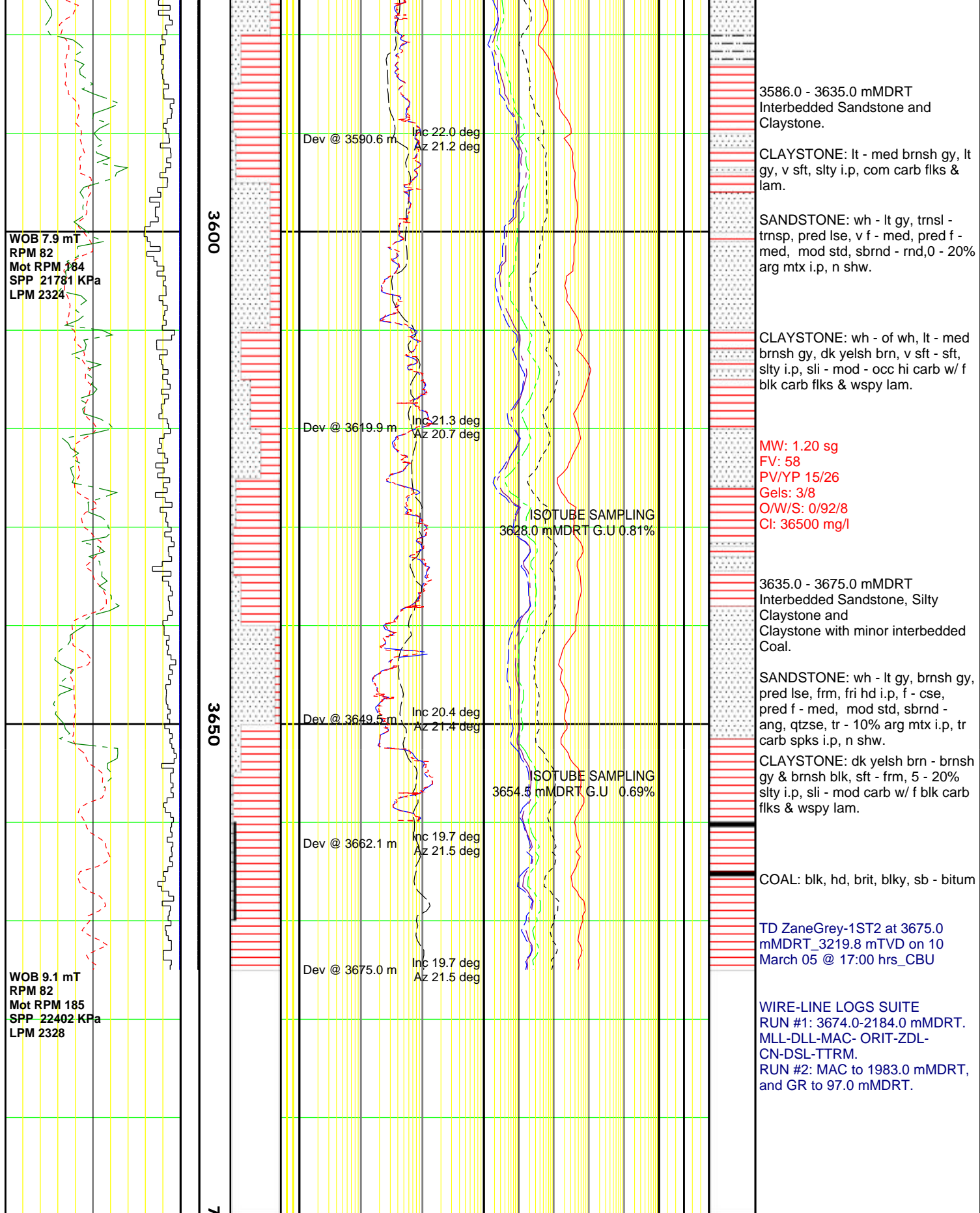
3410.0 - 3480.0 mMDRT
Interbedded Sandstone, Silty Carbonaceous Claystone, with Coal seams.

COAL: brnsh blk - blk, frm - mod hd, sbsplint - sbfiss, sbbitum, thn sltst lam, slw yelsh-bl ct, strng blsh yel res ring res

Run Carbide @ 3431.0 mMDRT
Theor Ann Vol = 597 bbls
Act Ann Vol = 688 bbls
Ave hole dia = 9.79"

WOB Hole dia = 5.75





Gamma Ray api		Sliding DEPTH - m	Cutting Litholog	Oil Show	EWR Deep Phase Res ohm-metre		Gas Chromatograph		Calcmetry	Interpreted Li	Lithology Descriptions and Remarks		
0	150				300	0.1	1	10				100	ppm
ROP Avg m/hr					EWR Medium Phase Res ohm-metre		C1 Avg	C2 Avg				C3 Avg	
200	100				0	0.1	1	10				100	

Geology						Lithology						Remarks					
<p>Bit Weight mT</p>						<p>Gas Hydrocn Avg %</p>						<p>C4 Total Avg ———— % DOL C5 Total Avg ———— % LST</p>					
MDRT																	