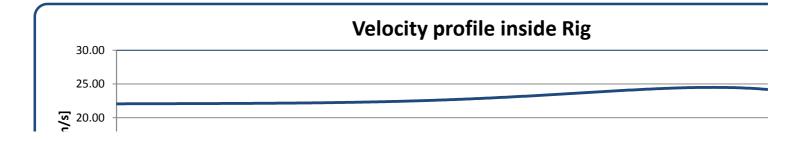
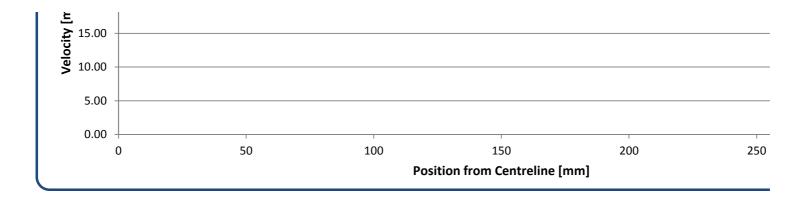


Rig Mass Flow Rate Calculations

Engine Data File		
Ambient Conditions		
Air Temperature	5	[C]
Atmospheric Pressure	975	[mBar]
Air Humidity	95	[%]
Viper Engine Parameters		
Engine Air Intake Mass Flow	18.7	[Kg/s]
Butane Flow Rate	1732	[Ltr/h]
Engine Speed	12150	[RPM]
ETC	650	[C]
Gas Delivery System Data File		
Gas Delivery System		
Mixed Gas (Fuel) Mass Flow rate	0.017	[Kg/s]
Oxygen Mass Flow rate	0.155	[Kg/s]

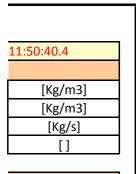
Please do not change anything in t	
Test Date and Time	= 29.10.2014
Calculated Parameters	
Air density	1.217898
Liquid Butane density	584
Butane mass Flow rate	0.2809689
Air Fuel Ratio	79.232633
Calculated Exhaust gas properti	es (Reaction
Exhaust products density	0.389
Pitot Traverse Results	
Rig Gas flow rate - Integrated	2.4597914
Total Rig Mass flow	2.6317914
Rig Gas Temperature as read from	TC 11
Gas Temperature	514





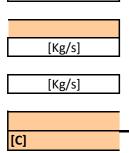
Note

Manual for viper 201 gives figures for fuel flow rate to be as follows at maximum power						
Fuel Flow	2035	lb/hr		2920	lb/hr	
	925	Kg/hr	to	1327.273	Kg/hr	
	1156.25	ltr/hr		1659.091	ltr/hr	



Engines)

[Kg/m3]



Bruce Ewan to fill in



