0 1	Some alkanes can be burned and used as fuels. A way to represent the complete combustion of an alkane fuel is shown by the following word equation.						complete
	alkan	e +	oxygen	→ compo	ound x +	water	
0 1 . 1	Name compound	d x.					[1 mark]
	carbon dioxid	е					
	Hexane is an exa	•		t can be burne	d as a fue	el. One rea	ction of
	2C ₆ H	14 +	1302	→ 12C0	+	14H ₂ O	
0 1 . 2	Name the carbon compound produced in this reaction. [1 mark]						
	carbon monox	kide					
0 1 . 3	Suggest a reason for this carbon compound being produced. [1 mark]						
	Burned in low	oxygen con	ditions or	only partial or	incomple	te combu	stion.
0 2	The table shows the elements that are present in a sample of crude oil. These elements can also be present in the fractions produced from this sample crude oil.						
		Element	% of	each element	t		
		Carbon		14			
		Sulfur		0.5			
		Nitrogen		0.5			
0 2 . 1	Name the missir	ng element.	1				[1 mark]

0	3	when fractions from crude oil are burned in air, new compo compounds can sometimes cause pollution.	unds are made. These
0	3 . 1	Describe how burning fractions from crude oil can cause pe to help you.	ollution. Use the table
		In your answer you should name the compounds produced	[5 marks]
		Produces <u>carbon dioxide</u>	[1]
		which causes the green house affect or global warming	[1]
		Produces <u>sulfur dioxide</u>	[1]
		which causes acid rain	[1]
		Produces nitrogen oxides or <u>nitrogen dioxide</u> or NO _x	[1]
			(T. 10 1)
			(Total 9 marks)

End