			Tr.									
North Slop	pe Model	Drill Rigs										
Based on [December	1, 1998 Revised Mode	eling Analysis for Mobile Explora	tion Drilling and Well Test	ing, North S	Slope, Alas	ka. ARCO Alaska, Inc.					
Maximum :	annual fue	l consumption for a wi	nter drilling season									
500000			3									
Fuel source		S										+
			For engines prorate fuel use by									
			total horsepower above and at									
Engines	Other fuel		or below 600hp per engines									
			Total hp - small engines	Total hp - large engines								
			205									+
Percent of	total fuel u	ised				Emission	Factors from					
75%			27%	6 48%			1-1, 3.3-2, 1.3-2					
							, , , , , , , ,					
North Slope	e											+
Large engi			Small engines				Other fuel burning equ	ipment				+
	gallons/se		13500	0			125000 gallons					+
32887.2			18499.0				gallone					+
105239		52.61952 tpy nox	81580.810		40.79041	tpv nox	2500 lb nox	1.25 tpy nox	94.659925			+
16443.6		8.2218 tpy so2	9249.52		4.624763		8875 lb so2	4.4375 tpy so2	17.284063			+
	lb PM-10	1.64436 tpy PM-10		5 lb PM-10		tpy PM-10		0.0675 tpy PM-10				+
27954.12		13.97706	17574.097		8.787049		625 lb co	0.3125	23.076609			
2959.848		1.479924		B lb VOC	3.329829		0 lb VOC	0	4.809753			
2000.010	15 7 0 0	77.94266	0000.00		60.3994			6.0675	144.40956 PTE (4 mos drilling) for Portable Dr	ill Rigs North	of 69 Degree	
		975.8422			756.2005			75.9651	\$ 2,556.05 for winter drilling (4 mos.)		0.410(g)((3)(A)(i)	
		070.0122			700.2000			7 0.000 1	2,000.00 Ich Winter arming (1 mee.)		0.110(g)((0)(7.1)(1)	
									\$ 7,668.15 for entire year (12 mos.)	18 AAC 50	0.410(g)((3)(A)(ii)	
Not North	Slope								the crime year (12 meet)			_
	•	consumption for a wi	nter drilling season					Rate is bas	sed on PTE multiplied by current/proposed Title	1 (ECPR) Emi	ssion Fee Rate (18 A	AAC 50 4
Based on N			liter arming codes.					110101010				<u> </u>
	gallons											
Fuel source		S										
			For engines prorate fuel use by									
			total horsepower above and at									
Engines	Other fuel											
gc	Coner luer	burning equipment	·									
	Other ruer	burning equipment	or below 600hp per engines	Total hp - large engines								
	Other ruer	burning equipment	or below 600hp per engines Total hp - small engines	Total hp - large engines								
Percent of			or below 600hp per engines									
Percent of	່ total fuel ເ	ısed	or below 600hp per engines Total hp - small engines 183.5	3800								
Percent of 90%	່ total fuel ເ	ısed	or below 600hp per engines Total hp - small engines	3800								
90%	total fuel u	ısed	or below 600hp per engines Total hp - small engines 183.5	3800								
90% North Slope	f total fuel u	Ised	or below 600hp per engines Total hp - small engines 183.5	3800			Other fuel hurning equ	ipment				
90% North Slope Large engir	f total fuel u 10% pe ines	used	or below 600hp per engines Total hp - small engines 183.5 49 Small engines	8 3800			Other fuel burning equ	ipment				
90% North Slope Large engil 60333.3	f total fuel u 10% pe ines gallons/se	used	or below 600hp per engines Total hp - small engines 183.5 49 Small engines 2806.	8 3800 6 86% 2			Other fuel burning equ 7015.5 gallons	iipment				
90% North Slope Large engil 60333.3 8267.472	total fuel u 10% ne ines gallons/se mmbtu	ason	or below 600hp per engines Total hp - small engines 183.5 49 Small engines 2806. 384.53358	8 3800 6 86% 2 5 small		/ towney	7015.5 gallons		15 325852			
90% North Slope Large engir 60333.3 8267.472 26455.91	total fuel u 10% ne ines gallons/se mmbtu lb nox	ason 13.22796 tpy nox	or below 600hp per engines Total hp - small engines 183.5 49 Small engines 2806. 384.53358 1695.79311	8 3800 6 86% 2 5 small 4 lb nox	0.847897		7015.5 gallons 2500 lb nox	1.25 tpy nox	15.325852			
90% North Slop Large engir 60333.3 8267.472 26455.91 4133.736	total fuel u 10% pe ines gallons/se mmbtu lb nox lb so2	ason 13.22796 tpy nox 2.066868 tpy so2	or below 600hp per engines Total hp - small engines 183.5 49 Small engines 2806. 384.53358 1695.79311 192.26679	8 3800 6 86% 2 5 small 4 lb nox 3 lb so2	0.847897 0.096133	tpy so2	7015.5 gallons 2500 lb nox 8875 lb so2	1.25 tpy nox 4.4375 tpy so2	6.6005014			
90% North Slope Large engii 60333.3 8267.472 26455.91 4133.736 826.7472	r total fuel u 10% De ines gallons/se mmbtu lb nox lb so2 lb PM-10	ason 13.22796 tpy nox 2.066868 tpy so2 0.413374 tpy PM-10	or below 600hp per engines Total hp - small engines 183.5 49 Small engines 2806. 384.53358 1695.79311 192.26679 119.205411	8 3800 6 86% 2 5 small 4 lb nox 3 lb so2 7 lb PM-10	0.847897 0.096133 0.059603	tpy so2 tpy PM-10	7015.5 gallons 2500 lb nox 8875 lb so2 135 lb PM-10	1.25 tpy nox 4.4375 tpy so2 0.0675 tpy PM-10	6.6005014 0.5404763			
90% North Slope Large engir 60333.3 8267.472 26455.91 4133.736 826.7472 7027.351	total fuel u 10% De ines gallons/se mmbtu Ib nox Ib so2 Ib PM-10 Ib co	ason 13.22796 tpy nox 2.066868 tpy so2 0.413374 tpy PM-10 3.513676	or below 600hp per engines Total hp - small engines 183.5 49 Small engines 2806. 384.53358 1695.79311 192.26679 119.205411 365.306906	8 3800 6 86% 2 5 small 4 lb nox 3 lb so2 7 lb PM-10 7 lb co	0.847897 0.096133 0.059603 0.182653	tpy so2 tpy PM-10	7015.5 gallons 2500 lb nox 8875 lb so2 135 lb PM-10 625 lb co	1.25 tpy nox 4.4375 tpy so2 0.0675 tpy PM-10 0.3125	6.6005014 0.5404763 4.0088291			
90% North Slope Large engii 60333.3 8267.472 26455.91 4133.736 826.7472	total fuel u 10% De ines gallons/se mmbtu Ib nox Ib so2 Ib PM-10 Ib co	ason 13.22796 tpy nox 2.066868 tpy so2 0.413374 tpy PM-10 3.513676 0.372036	or below 600hp per engines Total hp - small engines 183.5 49 Small engines 2806. 384.53358 1695.79311 192.26679 119.205411	8 3800 6 86% 2 5 small 4 lb nox 3 lb so2 7 lb PM-10 7 lb co	0.847897 0.096133 0.059603 0.182653 0.069216	tpy so2 tpy PM-10	7015.5 gallons 2500 lb nox 8875 lb so2 135 lb PM-10	1.25 tpy nox 4.4375 tpy so2 0.0675 tpy PM-10 0.3125	6.6005014 0.5404763 4.0088291 0.4412523	of North of CO	Dograe	
90% North Slope Large engir 60333.3 8267.472 26455.91 4133.736 826.7472 7027.351	total fuel u 10% De ines gallons/se mmbtu Ib nox Ib so2 Ib PM-10 Ib co	ason 13.22796 tpy nox 2.066868 tpy so2 0.413374 tpy PM-10 3.513676 0.372036 19.59391	or below 600hp per engines Total hp - small engines 183.5 49 Small engines 2806. 384.53358 1695.79311 192.26679 119.205411 365.306906	8 3800 6 86% 2 5 small 4 lb nox 3 lb so2 7 lb PM-10 7 lb co	0.847897 0.096133 0.059603 0.182653 0.069216 1.255502	tpy so2 tpy PM-10 tpy PM-10	7015.5 gallons 2500 lb nox 8875 lb so2 135 lb PM-10 625 lb co	1.25 tpy nox 4.4375 tpy so2 0.0675 tpy PM-10 0.3125 0 6.0675	6.6005014 0.5404763 4.0088291 0.4412523 26.916911 PTE for Portable Drill Rigs outside			
90% North Slope Large engir 60333.3 8267.472 26455.91 4133.736 826.7472 7027.351	total fuel u 10% De ines gallons/se mmbtu Ib nox Ib so2 Ib PM-10 Ib co	ason 13.22796 tpy nox 2.066868 tpy so2 0.413374 tpy PM-10 3.513676 0.372036	or below 600hp per engines Total hp - small engines 183.5 49 Small engines 2806. 384.53358 1695.79311 192.26679 119.205411 365.306906	8 3800 6 86% 2 5 small 4 lb nox 3 lb so2 7 lb PM-10 7 lb co	0.847897 0.096133 0.059603 0.182653 0.069216	tpy so2 tpy PM-10 tpy PM-10	7015.5 gallons 2500 lb nox 8875 lb so2 135 lb PM-10 625 lb co	1.25 tpy nox 4.4375 tpy so2 0.0675 tpy PM-10 0.3125	6.6005014 0.5404763 4.0088291 0.4412523			
90% North Slope Large engir 60333.3 8267.472 26455.91 4133.736 826.7472 7027.351	total fuel u 10% De ines gallons/se mmbtu Ib nox Ib so2 Ib PM-10 Ib co	ason 13.22796 tpy nox 2.066868 tpy so2 0.413374 tpy PM-10 3.513676 0.372036 19.59391	or below 600hp per engines Total hp - small engines 183.5 49 Small engines 2806. 384.53358 1695.79311 192.26679 119.205411 365.306906	8 3800 6 86% 2 5 small 4 lb nox 3 lb so2 7 lb PM-10 7 lb co	0.847897 0.096133 0.059603 0.182653 0.069216 1.255502	tpy so2 tpy PM-10 tpy PM-10	7015.5 gallons 2500 lb nox 8875 lb so2 135 lb PM-10 625 lb co	1.25 tpy nox 4.4375 tpy so2 0.0675 tpy PM-10 0.3125 0 6.0675	6.6005014 0.5404763 4.0088291 0.4412523 26.916911 PTE for Portable Drill Rigs outside \$ 476.43 per well rate for Portable Drill Rigs of	outside of No	rth of 69 Degree	
90% North Slope Large engir 60333.3 8267.472 26455.91 4133.736 826.7472 7027.351	total fuel u 10% De ines gallons/se mmbtu Ib nox Ib so2 Ib PM-10 Ib co	ason 13.22796 tpy nox 2.066868 tpy so2 0.413374 tpy PM-10 3.513676 0.372036 19.59391	or below 600hp per engines Total hp - small engines 183.5 49 Small engines 2806. 384.53358 1695.79311 192.26679 119.205411 365.306906	8 3800 6 86% 2 5 small 4 lb nox 3 lb so2 7 lb PM-10 7 lb co	0.847897 0.096133 0.059603 0.182653 0.069216 1.255502	tpy so2 tpy PM-10 tpy PM-10	7015.5 gallons 2500 lb nox 8875 lb so2 135 lb PM-10 625 lb co	1.25 tpy nox 4.4375 tpy so2 0.0675 tpy PM-10 0.3125 0 6.0675	6.6005014 0.5404763 4.0088291 0.4412523 26.916911 PTE for Portable Drill Rigs outside	outside of No		
90% North Slope Large engir 60333.3 8267.472 26455.91 4133.736 826.7472 7027.351	total fuel u 10% De ines gallons/se mmbtu Ib nox Ib so2 Ib PM-10 Ib co	ason 13.22796 tpy nox 2.066868 tpy so2 0.413374 tpy PM-10 3.513676 0.372036 19.59391	or below 600hp per engines Total hp - small engines 183.5 49 Small engines 2806. 384.53358 1695.79311 192.26679 119.205411 365.306906	8 3800 6 86% 2 5 small 4 lb nox 3 lb so2 7 lb PM-10 7 lb co	0.847897 0.096133 0.059603 0.182653 0.069216 1.255502	tpy so2 tpy PM-10 tpy PM-10	7015.5 gallons 2500 lb nox 8875 lb so2 135 lb PM-10 625 lb co	1.25 tpy nox 4.4375 tpy so2 0.0675 tpy PM-10 0.3125 0 6.0675	6.6005014 0.5404763 4.0088291 0.4412523 26.916911 PTE for Portable Drill Rigs outside \$ 476.43 per well rate for Portable Drill Rigs of	18 AAC 50	rth of 69 Degree 0.410(g)(3)(B)(i)	
90% North Slope Large engir 60333.3 8267.472 26455.91 4133.736 826.7472 7027.351	total fuel u 10% De ines gallons/se mmbtu Ib nox Ib so2 Ib PM-10 Ib co	ason 13.22796 tpy nox 2.066868 tpy so2 0.413374 tpy PM-10 3.513676 0.372036 19.59391	or below 600hp per engines Total hp - small engines 183.5 49 Small engines 2806. 384.53358 1695.79311 192.26679 119.205411 365.306906	8 3800 6 86% 2 5 small 4 lb nox 3 lb so2 7 lb PM-10 7 lb co	0.847897 0.096133 0.059603 0.182653 0.069216 1.255502	tpy so2 tpy PM-10 tpy PM-10	7015.5 gallons 2500 lb nox 8875 lb so2 135 lb PM-10 625 lb co	1.25 tpy nox 4.4375 tpy so2 0.0675 tpy PM-10 0.3125 0 6.0675	6.6005014 0.5404763 4.0088291 0.4412523 26.916911 PTE for Portable Drill Rigs outside \$ 476.43 per well rate for Portable Drill Rigs of	18 AAC 50	rth of 69 Degree	
90% North Slope Large engir 60333.3 8267.472 26455.91 4133.736 826.7472 7027.351	total fuel u 10% De ines gallons/se mmbtu Ib nox Ib so2 Ib PM-10 Ib co	ason 13.22796 tpy nox 2.066868 tpy so2 0.413374 tpy PM-10 3.513676 0.372036 19.59391	or below 600hp per engines Total hp - small engines 183.5 49 Small engines 2806. 384.53358 1695.79311 192.26679 119.205411 365.306906	8 3800 6 86% 2 5 small 4 lb nox 3 lb so2 7 lb PM-10 7 lb co	0.847897 0.096133 0.059603 0.182653 0.069216 1.255502	tpy so2 tpy PM-10 tpy PM-10	7015.5 gallons 2500 lb nox 8875 lb so2 135 lb PM-10 625 lb co	1.25 tpy nox 4.4375 tpy so2 0.0675 tpy PM-10 0.3125 0 6.0675	6.6005014 0.5404763 4.0088291 0.4412523 26.916911 PTE for Portable Drill Rigs outside \$ 476.43 per well rate for Portable Drill Rigs of \$ 2,382.15 per 5 wells \$ 4,764.29 per 10 wells	18 AAC 50	rth of 69 Degree 0.410(g)(3)(B)(i) 0.410(g)(3)(B)(ii)	
90% North Slope Large engir 60333.3 8267.472 26455.91 4133.736 826.7472 7027.351	total fuel u 10% De ines gallons/se mmbtu Ib nox Ib so2 Ib PM-10 Ib co	ason 13.22796 tpy nox 2.066868 tpy so2 0.413374 tpy PM-10 3.513676 0.372036 19.59391	or below 600hp per engines Total hp - small engines 183.5 49 Small engines 2806. 384.53358 1695.79311 192.26679 119.205411 365.306906	8 3800 6 86% 2 5 small 4 lb nox 3 lb so2 7 lb PM-10 7 lb co	0.847897 0.096133 0.059603 0.182653 0.069216 1.255502	tpy so2 tpy PM-10 tpy PM-10	7015.5 gallons 2500 lb nox 8875 lb so2 135 lb PM-10 625 lb co	1.25 tpy nox 4.4375 tpy so2 0.0675 tpy PM-10 0.3125 0 6.0675	6.6005014 0.5404763 4.0088291 0.4412523 26.916911 PTE for Portable Drill Rigs outside \$ 476.43 per well rate for Portable Drill Rigs of	18 AAC 50	rth of 69 Degree 0.410(g)(3)(B)(i)	
90% North Slope Large engir 60333.3 8267.472 26455.91 4133.736 826.7472 7027.351	total fuel u 10% De ines gallons/se mmbtu Ib nox Ib so2 Ib PM-10 Ib co	ason 13.22796 tpy nox 2.066868 tpy so2 0.413374 tpy PM-10 3.513676 0.372036 19.59391	or below 600hp per engines Total hp - small engines 183.5 49 Small engines 2806. 384.53358 1695.79311 192.26679 119.205411 365.306906	8 3800 6 86% 2 5 small 4 lb nox 3 lb so2 7 lb PM-10 7 lb co	0.847897 0.096133 0.059603 0.182653 0.069216 1.255502	tpy so2 tpy PM-10 tpy PM-10	7015.5 gallons 2500 lb nox 8875 lb so2 135 lb PM-10 625 lb co	1.25 tpy nox 4.4375 tpy so2 0.0675 tpy PM-10 0.3125 0 6.0675 75.9651	6.6005014 0.5404763 4.0088291 0.4412523 26.916911 PTE for Portable Drill Rigs outside \$ 476.43 per well rate for Portable Drill Rigs of \$ 2,382.15 per 5 wells \$ 4,764.29 per 10 wells	18 AAC 50 18 AAC 50 18 AAC 50	rth of 69 Degree 0.410(g)(3)(B)(i) 0.410(g)(3)(B)(ii) 0.410(g)(3)(B)(iii)	