

North Slope Model Drill Rigs												
Based on December 1, 1998 Revised Modeling Analysis for Mobile Exploration Drilling and Well Testing, North Slope, Alaska. ARCO Alaska, Inc.												
Maximum annual fuel consumption for a winter drilling season												
500000 gallons												
Fuel source estimates												
Engines		Other fuel burning equipment		For engines prorate fuel use by total horsepower above and at or below 600hp per engines								
				Total hp - small engines		Total hp - large engines						
				2055		3645						
Percent of total fuel used				Emission Factors from								
75%		25%		27%		48%		AP-42: 3.4-1, 3.3-2, 1.3-2				
North Slope												
Large engines				Small engines				Other fuel burning equipment				
240000 gallons/season				135000				125000 gallons				
32887.2 mmbtu				18499.05 small								
105239 lb nox		52.61952 tpy nox		81580.8105 lb nox		40.79041 tpy nox		2500 lb nox		1.25 tpy nox		
16443.6 lb so2		8.2218 tpy so2		9249.525 lb so2		4.624763 tpy so2		8875 lb so2		4.4375 tpy so2		
3288.72 lb PM-10		1.64436 tpy PM-10		5734.7055 lb PM-10		2.867353 tpy PM-10		135 lb PM-10		0.0675 tpy PM-10		
27954.12 lb co		13.97706		17574.0975 lb co		8.787049		625 lb co		0.3125		
2959.848 lb VOC		1.479924		6659.658 lb VOC		3.329829		0 lb VOC		0		
		77.94266				60.3994		6.0675		144.40956		
		975.8422				756.2005		75.9651		PTE (4 mos drilling) for Portable Drill Rigs North of 69 Degree		
										\$ 1,413.77 for winter drilling (4 mos.)		18 AAC 50.410(g)((3)(A)(i))
										\$ 4,241.31 for entire year (12 mos.)		18 AAC 50.410(g)((3)(A)(ii))
Not North Slope												
Maximum annual fuel consumption for a winter drilling season												
Based on Nabors 160 rig												
70155 gallons												
Fuel source estimates												
Engines		Other fuel burning equipment		For engines prorate fuel use by total horsepower above and at or below 600hp per engines								
				Total hp - small engines		Total hp - large engines						
				183.58		3800						
Percent of total fuel used				Emission Factors from								
90%		10%		4%		86%						
North Slope												
Large engines				Small engines				Other fuel burning equipment				
60333.3 gallons/season				2806.2				7015.5 gallons				
8267.472 mmbtu				384.533586 small								
26455.91 lb nox		13.22796 tpy nox		1695.793114 lb nox		0.847897 tpy nox		2500 lb nox		1.25 tpy nox		
4133.736 lb so2		2.066868 tpy so2		192.266793 lb so2		0.096133 tpy so2		8875 lb so2		4.4375 tpy so2		
826.7472 lb PM-10		0.413374 tpy PM-10		119.2054117 lb PM-10		0.059603 tpy PM-10		135 lb PM-10		0.0675 tpy PM-10		
7027.351 lb co		3.513676		365.3069067 lb co		0.182653		625 lb co		0.3125		
744.0725 lb VOC		0.372036		138.432091 lb VOC		0.069216		0 lb VOC		0		
		19.59391				1.255502		6.0675		26.916911		
		245.3157				15.71889		75.9651		PTE for Portable Drill Rigs outside of North of 69 Degree		
										\$ 263.52 per well rate for Portable Drill Rigs outside of North of 69 Degree		
										\$ 1,317.58 per 5 wells		18 AAC 50.410(g)(3)(B)(i))
										\$ 2,635.17 per 10 wells		18 AAC 50.410(g)(3)(B)(ii))
										\$ 3,952.75 per 15 wells		18 AAC 50.410(g)(3)(B)(iii))
Rate is based on PTE multiplied by current/ proposed Title 1 (ECPR) Emission Fee Rate (18 AAC 50.410)												