

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	94.659925				
16443.6	lb so2	8.2218	tpy so2	9249.525			lb so2	4.624763	tpy so2	8875	lb so2	4.4375	tpy so2	17.284063				
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	4.5792128				
27954.12	lb co	13.97706		17574.0975			lb co	8.787049		625	lb co	0.3125		23.076609				
2959.848	lb VOC	1.479924		6659.658			lb VOC	3.329829		0	lb VOC	0		4.809753				
		77.94266						60.3994				6.0675		144.40956	PTE (4 mos drilling) for Portable Drill Rigs North of 69 Degree			
		975.8422						756.2005				75.9651		\$ 2,556.05	for winter drilling (4 mos.) 18 AAC 50.410(g)((3)(A)(i)			
														\$ 7,668.15	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																		Rate is based on PTE multiplied by current/proposed Title 1 (ECPR) Emission Fee Rate (18 AAC 50.410)
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																		
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	15.325852				
4133.736	lb so2	2.066868	tpy so2	192.266793			lb so2	0.096133	tpy so2	8875	lb so2	4.4375	tpy so2	6.6005014				
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	0.5404763				
7027.351	lb co	3.513676		365.3069067			lb co	0.182653		625	lb co	0.3125		4.0088291				
744.0725	lb VOC	0.372036		138.432091			lb VOC	0.069216		0	lb VOC	0		0.4412523				
		19.59391						1.255502				6.0675		26.916911	PTE for Portable Drill Rigs outside of North of 69 Degree			
		245.3157						15.71889				75.9651		\$ 476.43	per well rate for Portable Drill Rigs outside of North of 69 Degree			
														\$ 2,382.15	per 5 wells 18 AAC 50.410(g)(3)(B)(i)			
														\$ 4,764.29	per 10 wells 18 AAC 50.410(g)(3)(B)(ii)			
														\$ 7,146.44	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)			