

**TABLE ES-15**  
**COMPARISON OF ESTIMATED PIPELINE CONSTRUCTION COSTS BY ALTERNATIVE**  
(Million \$)

Characteristics	Alternatives				
	1	2	3	4	5
Estimated Pipeline Construction Costs <sup>1</sup>					
Onshore	0	32.50 - 45.70	37.10 - 56.70	26.60 - 42.40	30.70 - 48.10
Offshore	0	17.50 - 24.30	17.50 - 24.30	24.40 - 34.30	24.10 - 33.90
Subtotal	0	50.00 - 70.00	54.60 - 81.00	51.00 - 76.70	54.80 - 82.00
Estimated Ice Road Costs Associated with Pipeline Construction <sup>2</sup>					
Onshore	0	0.46 - 0.61	0.50 - 0.65	0.04 - 0.51	0.04 - 0.50
Offshore <8.5 ft	0	0.07 - 0.10	0.07 - 0.10	0.12 - 0.16	0.12 - 0.15
Offshore >8.5 ft	0	2.27 - 2.77	2.27 - 2.77	3.21 - 3.93	3.21 - 3.93
Subtotal	0	2.80 - 3.48	2.84 - 3.52	3.37 - 4.60	3.37 - 4.58
Total Pipeline Construction Costs	0	52.80 - 73.48	57.44 - 83.52	54.37 - 81.30	58.07 - 86.58
Total Estimated Capital Expenditure for Construction of the Northstar Development Project	0	405	415	413	418

- Notes:
- 1 = Source: BPXA, 1997a:1
  - 2 = Source: Rainwater, 1997:1
  - 3 = Includes \$5.7 million for widening the causeway.
  - 4 = Estimated from BP (Exploration) Alaska, Inc's. projected capital expenditure of \$405 million, assuming that includes the high end of the pipeline cost range.