

**TABLE 4-2
ALTERNATIVE 2 - PIPELINE CORRIDOR INFORMATION**

Offshore Pipeline Corridor (Oil and Gas) ¹							Onshore Pipeline Corridor ^{2,3}			
Water Depth (feet)	Corridor ⁴ Length (feet)	Estimated ^{4,5} Trenching Rate (feet/day)	Estimated ^{5,6} Trenching Time (days)	Estimated ⁷ Seafloor Area Disturbed (acres)	Estimated ^{4,5} Volume Excavated (cubic yards)	Estimated ⁸ Construction Costs (\$ Million)	Pipeline Type	Installation Method ⁹	Line Length ^{4,10} (feet)	Estimated ⁸ Construction Costs (\$ million)
0 - 10	12,600	1,000	12.6	2.3	50,400	4.8 - 7.2	Oil	New VSMS along new ROW	50,400	14.3 - 19.1
10 - 20	9,240	600	15.4	9.3	101,600	4.4 - 6.1		New VSMS along existing pipeline and/or road corridor	8,300	2.4 - 3.9
20 - 30	4,840	600	8.1	4.9	59,300	2.8 - 3.7	Gas	New VSMS along new ROW	37,900	10.8 - 14.4
30 - 40	4,800	200	24	4.9	52,800	5.5 - 7.3		New VSMS along existing pipeline and/or road corridor	17,600	5.0 - 8.3
Totals	31,480	N/A	N/A	21.4	264,100	17.5 - 24.3	Totals	N/A	114,200	32.5 - 45.7

- Notes:
- 1 = Offshore freshwater ice road cap (3 inches thick by 100 ft wide) requires 23,500 bbls/mile of pipeline length (31,480 ft requires 140,100 bbls).
 - 2 = Total onshore pipeline corridor length is 76,300 ft (114,200 ft - 37,900 ft).
 - 3 = Onshore freshwater ice road (2 inches thick by 75 ft wide) requires 11,800 bbls/mile of pipeline length (76,300 ft requires 170,600 bbls freshwater).
 - 4 = Source: Hanley, 1997b:Attachment 2
 - 5 = Source: BPXA, 1997b:Table 2.4-6
 - 6 = Pipeline trenching would be conducted with three crews working simultaneously.
 - Crew 1 would start at the shoreline to a point just outside the barrier island (landfast ice zone).
 - Crew 2 would start just outside the barrier islands and continue to a point midway between the barrier islands and Seal Island.
 - Crew 3 would begin at a point midway between the barrier islands and continue to Seal Island.
 - 7 = Source: Hanley, 1997b:Attachment 2; BPXA, 1997b:Figure 2.4-4
 - 8 = Source: BPXA, 1997a:1
 - 9 = Typical VSM spacing is 55 ft for onshore pipeline construction (76,300 ft ÷ 55 ft = 1,387 VSMS) (I. Leavitt - Pers. Comm., 1997:1).
 - 10 = 37,900 ft of pipeline is shared in common onshore corridor.
- bbls = Barrels N/A = Not applicable VSMS = Vertical support members
ft = Feet ROW = Right-of-way