

OTHER MAJOR NON-ARCTIC PIPELINE PROJECTS

1. NOVA's Main Trunk Lines (Design)
2. BC Gas Southern Crossing and IPC Projects (Design, Permits, Construction)
3. ANG - British Columbia (Design, Permits, Construction)
4. Argentina - Atacama Gas Pipeline (Design, Construction, Operations)
5. Ecuador - OCP Oil Line (Design)
6. Peru - Camisea Gas Line (Design)

PUBLICATIONS Re: Arctic Projects

W. M. Veldman and J. Ferrell "Lessons Learned for River Crossing Designs from Four Major Floods Experienced Along the Trans Alaska Pipeline." To be published in Proceedings of 11th International Conference on Cold Regions Engineering, American Society of Civil Engineers, Anchorage, Alaska, May 2002.

W. M. Veldman and P. McDevitt, "A 13 km River Training Structure for the Trans Alaska Oil Pipeline". Offshore Mechanics and Arctic Engineering Conference, American Society of Mechanical Engineers Conference, Calgary, Alberta, 1992.

W. M. Veldman, "Arctic Pipeline River Crossings. Design Trends and Lessons Learned". Prepared for the American Society of Civil Engineers, Specialty Conference on Pipelines in Adverse Environments, San Diego, California, November, 1983.

W. M. Veldman, and E. K. Yaremko, "Design and Construction of River Training Structures in Cold Environments". Proceedings of Conference on Applied Techniques for Cold Environments, American Society of Civil Engineers, Anchorage, Alaska, 1978.



Note: 1. All pipeline routes are approximate and shown for illustrative purposes only.

NAME	EIA / PERMITS	DESIGN	CONSTRUCTION	O & M	EXPERIENCE TIMELINE																												
					1973	1974	1975	1976	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001
1. Alyeska Pipeline, TAPS	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	* (Full-time assignment in Alyeska's office)																												
2. BP Exploration, Badami	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	[Timeline bar from 1994 to 2001]																												
3. Phillips Alaska, Alpine		<input checked="" type="checkbox"/>			[Timeline bar from 2000 to 2001]																												
4. Foothills Pipelines, Alaska Highway	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>			[Timeline bar from 1978 to 1984]																												
5. Imperial Oil, Norman Wells		<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>	[Timeline bar from 1999 to 2000]																												
6. Yukon Pacific Corp., LNG	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>			[Timeline bar from 1990 to 1992]																												
7. Enbridge, Norman Wells		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	[Timeline bar from 1988 to 1989]																												
8. SOHIO, Endicott		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	[Timeline bar from 1983 to 1987]																												
9. Conoco, Milne Point		<input checked="" type="checkbox"/>			[Timeline bar from 1984 to 1985]																												
10. Exxon, Point Thompson		<input checked="" type="checkbox"/>			[Timeline bar from 1982 to 1983]																												
11. Arco Alaska, Prudhoe Bay		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	[Timeline bar from 1978 to 1984]																												
12. Foothills Pipelines, Dempster Lateral	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>			[Timeline bar from 1978 to 1979]																												
13. Foothills Pipelines, Dawson City Alignment	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>			[Timeline bar from 1978 to 1978]																												

* Full time assignment in Alyeska's office. All other experience on a consulting basis.



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**WIM M. VELDMAN
ARCTIC PIPELINE EXPERIENCE
TIMELINE AND GEOGRAPHIC
SUMMARY OF EXPERIENCE**