

**Table B: NS13-1 Hydrocarbon Wells - Well Failure Analysis**

Well	Parcel	Play Type	Target Formation(s)	Reservoir		Seal	Comments
				Net/Gross	Porosity		
Penobscot L-30	1	rollover anticline	Missisauga	High	Good	No Fault Seal	Oil bearing sands in Lower Missisauga trapped within simple closure
Emma N-03	1	rollover anticline	Missisauga	High	Good	No Fault Seal	Fault leaks due to high N/G; no simple closure at well location; sands wet
			Mic Mac	Fair	Fair	No Fault Seal	Small simple closure with thin gas pay
Mariner I-85	1	fault-bounded closure	Missisauga	High	Good	No Fault Seal	Fault leaks due to high N/G; no simple closure at well location; sands wet
			Mic Mac	Low	Low	Faults Seal	Tight limestones in Upper Mic Mac Fm. provide fault seal for gas sands
Mic Mac J-77	3	salt pillow	Logan Canyon	Fair	Good	No Fault Seal	No simple closure at well location; sands wet
			Missisauga	High	Good	No Fault Seal	Two sands with thin oil pay over water trapped in low relief simple closure
			Mic Mac	Fair	Fair	No Fault Seal	No simple closure at well location; sands wet
Mic Mac D-89*	3	salt pillow	Missisauga	High	Good	No Fault Seal	Oil zones in Dawson Canyon & Logan Canyon Fms. trapped in fault dependent closure
Wyandot E-53	3	basement high	Logan Canyon	Very High	Good	No Fault Seal	No simple closure at well location; sands wet
			Missisauga	Very High	Good	No Fault Seal	No simple closure at well location; sands wet
			Mic Mac	High	Good	No Fault Seal	One thin oil bearing sand trapped within simple closure in Mic Mac Fm.
Erie D-26	3	basement high	Logan Canyon	Very High	Good	No Fault Seal	No simple closure at well location; sands wet
			Missisauga	Very High	Good	No Fault Seal	No simple closure at well location; sands wet
			Mic Mac	High	Good	No Fault Seal	Two sands with thin oil pay trapped within simple closure in Mic Mac Fm.
N. Banquereau I-13	4	rollover anticline	Missisauga	High	Fair	No Fault Seal	Gas pay over water in Lr. Missisauga; sand trapped within simple closure
SW Banquereau F-34	4	rollover anticline	Missisauga	Fair	Low - Fair	No Fault Seal	Thin gas pay in Lr. Missisauga; sand trapped within simple closure
			Mic Mac	Not Penetrated	N/A	N/A	Last 1100 m of well has very low N/G (shale-dominated Verrill Canyon Fm.)
			Abenaki	Not Penetrated	N/A	N/A	
Louisbourg J-47**	5	rollover anticline	Missisauga	Fair - High	Fair - Good	No Fault Seal	Fault leaks due to high N/G; no simple closure at well location; sands wet
			Mic Mac	Low	Low	Fault Seals	Two sands with gas pay trapped within a fault dependent closure
			Abenaki	Not Penetrated	N/A	N/A	

\* No oil zones were encountered in the target formation (Missisauga). Two sands with thin oil pay over water were encountered in the lower Dawson Canyon and upper Logan Canyon Formations. These sands are believed to be trapped in a small fault dependent closure. This section of the well has a high shale content which allows the fault to seal.

\*\* Two gas sands trapped within a fault dependent closure were encountered in the Mic Mac Formation. In Louisbourg, the Mic Mac has a very low sand/shale ratio and contains a significant number of tight limestones which allows the faults, at this level, to seal.