TABLE 3.1: SYDNEY BASIN - Well Formation Tops - Metric Units (Metres)

David E. Brown - CNSOPB - March 2017

STRATIGRAPHY						ST. PAUL ISLAND P-91			NORTH SYDNEY P-05			NORTH SYDNEY F-24			CCSNS No. 1			BIRCH GROVE No. 1			APPROXIMATE SEISMIC HORIZON
						KB: 25.2 / WD: 199.1			KB: 29.9 / WD: 62.8			KB: 29.9 / WD: 59.8			KB: 4.4 / GR: 33.2			KB: 3.3 / GR: 49.7			
AGE				UNIT		Depth: MD - Metres			Depth: MD - Metres			Depth: MD - Metres			Depth: MD - Metres			Depth: MD - Metres			
Period	Epoch	Stage-ICS	Stage-EUR	Group	Formation	Top	Base	Thickness	Top	Base	Thickness	Top	Base	Thickness	Top	Base	Thickness	Top	Base	Thickness	
Permian	**Cisuralian**	Artinskian-Kungurian?		**"Permian"**	Undivided	**NP**			**289.5**		**259.1+**	**289.5**		**232.3+**	**NP**			**NP**			**P295**
		Asselian-Sakmarian		**Pictou**		**NP**				**548.6**			**521.8**		**NP**			**NP**			**C300**
Carboniferous	**Pennsylvanian**	Gzhelian	Stephanian																		
		Kasimovian		**Morien**		**?**			**548.6**	**1392.9**	**844.3**	**521.8**	**1436.1**	**914.3**	**15.0**	**1035.0**	**1020.0**	**3.4**	**844.0**	**840.6**	
		Muscovian	Westphalian		Sydney Mines				548.6	916.8	368.2	521.8	946.4	424.6	15.0	418.0	403.0	3.4	320.0	316.6	**C303**
					Waddens Cove				916.8	1045.4	129.6	946.4	1085.0	138.6	NP			NP			
				Unconformity - Westphalian C/B		In casing?			NP			1374.5		0	418.0		0	320.0		0	**C308**
					South Bar	**?**			1045.4	1392.9	347.5	1085.0	1436.1	351.1	418.0	1035.0	617.0	320.0	844.0	524.0	
				Unconformity - Westphalian B/A		In casing?			NP			NP			1035.0		0	844.0		0	
				Riversdale		**NP**			**NP**			**NP**			**1035.0**	**1114.0**	**79.0**	**844.0**	**1061.9**	**217.9**	
					Silver Mine										1035.0	1114.0	79.0	844.0	1061.9	217.9	
		Bashkirian	Namurian	*Unconformity - Westphalian-Namurian*		In casing?			1392.9		0	1436.1		0	1114.0		0	1061.9		0	
	Mississippian	Serpuhkovian		**Mabou**		**610.0**	**1257.0**	**647.0**	**1392.9**	**1660.8**	**267.9**	**1436.1**	**1706.8**	**270.7**	**1114.0**	**1372.8**	**258.8**	**1061.9**	**1343.5**	**281.6**	
					Point Edward	610.0	992.1	382.1	1392.9	1660.8	267.9	1436.1	1706.8	270.7	1114.0	1372.8	258.8	1061.9	1343.5	281.6	
				Unconformity - Intra-Namurian A		783.9		0	1450.8		0	1487.4		0	1176.0		0	1120.1		0	
					Cape Dauphin	992.1	1257.0	264.9													
		Visean	Visean	**Windsor**		**1257.0**	**2883.0**	**1626.0**													**C325**
					Woodbine Road	1257.0	2614.5	1357.5													
				Disconformity		NP?															
					Meadows Road	2614.5	2883.0	268.5													
				Disconformity																	
					Kempt Head																
					Sydney River																
					Gays River																
					MacBeth Brook																
					Macumber																
				Conformity / Disconformity																	
		Tournasian	Tournasian	**Horton**																	**C352**
					Ainslie																
					Strathlorne																
					Craignish																
					Fisset Brook																
				Regional Angular Unconformity											1372.8		0				**D360**
Hadrynian to Devonian				**Undivided Hadrynian to Devonian**											**1372.8**	**1527.0**	**154.2**				
				TOTAL DEPTH		**2883.0**			**1660.8**			**1706.8**			**1527.0**						

COMMENTS: Wells are presented in a northwest (St. Paul Island P-91) to southeast (Birch Grove No. 1) line of section. Abbreviations: NP = Not Present; NA = Not Applicable.

Unit tops determined from lithostratigraphy of Boehner and Giles (2008); and biostratigraphy from Utting (1984), and Weston et al. (2017c). Thrust fault interval identified in dip logs from 3806 to 3888 feet near the base of the Hastings (Cape Dauphin) Formation.

Unit tops determined from lithostratigraphy of Boehner and Giles (2008), Boehner and Prime (1993), Ryan et al. (1991), and MacLean and Wade (1993); and biostratigraphy of Clowser and Lentin (1974) and Weston et al. (2017a).

Unit tops determined from lithostratigraphy of Boehner and Giles (2008), Boehner and Prime (1993), Ryan et al. (1991), and MacLean and Wade (1993); and biostratigraphy of Dolby and LaBorde (1976) and Weston et al. (2017b).

Unit tops determined from lithostratigraphy of Boehner and Giles (2008), Boehner and Prime (1993), and Ryan et al. (1991); and biostratigraphy of Weston et al. (2017d).

Unit tops determined from lithostratigraphy of Boehner and Giles (2008) and Boehner and Prime (1993); and biostratigraphy of Barss (1968).