DAILY GEOLOGICAL REPORT
ORIGIN ENERGY RESOURCES LIMITED.

WELL:	Peterborough-1ST1	**REPORT No.:**	12	**DAYS FROM SPUD:**	12	**DATE:**	27/08/05
0000hrs Depth:	**1136**	**Last Depth:**	**958**	**24 HR PROGRESS:**	**178**	**PTD:**	**2075.0mRT**
0600 OPS:	28/08/05 –1130m –Drilling ahead 8½" sidetrack main hole in the Paaratte Formation.						
REMARKS:							

PRIMARY OBJECTIVES:	**Prognosed**	**SECONDARY OBJECTIVES:**	**Prognosed**
Waarre Formation	**1940.0 m R.T.**		

Spud Date:	20:30hrs 16/08/05	**Surface Latitude:**	38°35'11.98"	**T.D. =**		**Metres R.T.**
TD Reached Date:		**Surface Longitude:**	142°51'34.06"	**G.L. =**	9.65	**Metres ASL**
Rig release Date:		**Surface E (MGA94):**	0 661 953.0	**R.T. =**	14.95	**Metres ASL**
Rig	Century Rig-7	**Surface N (MGA94):**	5 727 451.0		(~15.00aprox.)	
Nearby Wells / Facilities are			**244mm Casing Shoe =**		495.6	**Metres R.T.**
			178mm Casing Shoe =			**Metres R.T.**

Fm. Tops (* Geophysical Picks)	Wellsite (mRT)	Wellsite (mSS)	Prognosed Depth (mRT)	Prognosed Depth (mSS)	Diff	H/L	Sub-Sea Depth Comparisons	Diff	H/L
Port Campbell Limestone	5.3	9.7	5.3	9.7	-	-			
Gellibrand Marl	122.0	-107.0	116.0	-101.0	6.0	L			
Clifton Formation	539.0	-524.0	531.0	-516.0	8.0	L			
Narrawaturk Marl	555.0	-540.0	547.0	-532.0	8.0	L			
Mepunga Formation	679.0	-664.0	681.0	-666.0	2.0	H			
Dilwyn Formation	734.0	-719.0	733.0	-718.0	1.0	H			
Pember Mudstone	975.0	-960.0	990.0	-975.0	15.0	H			
Pebble Point Formation	1036.0	-1021.0	1039.0	-1024.0	3.0	H			
	(1058.0)	(-1143.0)			(19.0)	L			
Paaratte Formation	1150.0	-1135.0	1156.0	-1141.0	6.0	H			
	(1176.0)	(-1161.0)			(19.0)	L			
Fault zone,			1653.0	-1638.0					
fault intersection			1693.0	-1678.0					
Skull Creek Mudstone			NA	NA					
Nullawarre Green			1693.0	-1678.0					
Belfast Mudstone			1734.0	-1719.0					
Waarre Formation (undifferentiated)			1940.0	-1925.0					
Eumeralla Formation			2031.0	-2016.0					
TD CDL-7			**2071.7**	**-2056.7**					

Tops are wellsite picks

(Depths) – Denote the new formation depths in Peterborough-1ST1, but are unreliable due to the possibility of miss counted pipe tally. Confirmation will commence at the next wiper trip (to HWDP) to ensure the proper depths, as per Chris Dann & Bryan Webb.

Interval			ROP (ave)	Lithology Description
958.0	-	1058.0	1.1-62.7 **(7.7)**	SILTSTONE with interbedded SANDSTONE. SANDSTONE, clear to translucent, very fine to fine, occasional medium, rare coarse grains, moderately sorted, predominantly sub-angular, weak calcareous cement, occasional off white argillaceous matrix, generally loose and clean, occasional friable aggregates, poor visual and inferred porosity, no fluorescence. SILTSTONE, predominantly brownish grey, minor off white to pale brown, argillaceous, grading to CLAYSTONE in part, calcareous, occasional fossiliferous fragments, occasional pyrite nodules and glauconite grains, soft to dispersive, sub-blocky to amorphous.

Gas	Units:	Nil	Composition (%):	- / - / - / - / -
Show Details / %CO2	Nil			

Interval			ROP (ave)	Lithology Description
1158.0	-	1172.0	0.5-7.0 **(1.0)**	SANDSTONE with SILTSTONE interbeds SANDSTONE, medium to dark yellowish brown, translucent yellowish brown, minor translucent to frosted, fine to very coarse, generally medium to coarse, poor sorted, sub-angular to sub-rounded, occasional rounded, weak siliceous cement, minor yellowish brown argillaceous matrix, friable to loose, fair to good visual and inferred porosity. SILTSTONE, olive black to greenish black, yellowish brown to moderately brown, argillaceous, grading to CLAYSTONE in part, calcareous in part, common Fe staining, occasional pyrite nodules, soft to firm, occasional dispersive, sub-blocky to sub-fissile.

Gas	Units:	Nil	Composition (%):	- / - / - / - / -
Show Details / %CO2	Nil			

Interval			ROP (ave)	Lithology Description
1172.0	-	1211.0	1.0-33..2 **(4.4)**	Dominantly SILTSTONE with SANDSTONE interbeds. SANDSTONE, translucent to clear, off white, pale yellow brown, very fine to medium, dominantly fine, nod sorted, sub-angular to sub-rounded, trace angular, trace siliceous cement, common pyrite nodules, trace fossiliferous fragments, generally clean and loose, occasional very hard aggregates, fair to good inferred and nil to tight visual porosity, no fluorescence. SILTSTONE, medium to dark grey, olive grey, medium brown in part, argillaceous, localized calcareous, trace glauconite, pyrite, minor carbonaceous specks and flecks, soft to dispersive, firm, sub-blocky to smor.

Gas	Units:	Nil	Composition (%):	- / - / - / - / -
Show Details / %CO2	Nil			