

**OIL COMPANY OF AUSTRALIA LIMITED
DAILY GEOLOGICAL REPORT**

DAILY GEOLOGICAL REPORT - ORIGIN ENERGY PETROLEUM PTY. LTD.

WELL: Dunbar-1 DW-1 REPORT No.: 1-3 DAYS FROM SPUD: 03 DATE: 21/03/2001
 0000 hrs Depth: 1217 LAST DEPTH: _____ 24 HR PROGRESS: _____ PTD: 1622
 0600 OPS: 22/03/01 - Drilling at 1236m.

REMARKS:

PRIMARY OBJECTIVES:		SECONDARY OBJECTIVES:	
Waarre "C"	1485(MD) / 1465(TVD)		
Waarre "A"	1547(MD) / 1518(TVD)		
Spud Date:	16:00hrs 19/03/01	Surface Latitude:	38°32'53.79" T.D. = Metres R.T.
TD Reached Date:		Surface Longitude:	142°54'23.11" G.L. = 77.2 Metres R.T.
Rig release Date:		Surface Eastings:	666 133.3 R.T. = 81.8 Metres R.T.
Rig	O.D. & E Rig 30	Surface Northings:	5 731 612.3
Nearby Well / Facility is...		244mm Casing Depth =	311.3 Metres R.T.
Kick-off from 1215m in Dunbar-1(1995)		178mm Casing Depth =	1209.2 Metres R.T.

Formation Tops (# Geophysical Picks)	Wellsite (mRT)	Prognosed Depths		Diff	H/L	Sub-Sea Depth Comparisons		
		(mRT)	(mSS)			DW-1	D-1	Diff
Skull Creek Member		1233.8	-1152.0				-1152.0	
Nullawarre Greensand			Absent?				NP	
Belfast Fm.		1373.3	-1286.0				-1323.4	
Waarre Fm. (Unit 'C')		1485.5	-1383.0				-1395.9	
Waarre Fm. (Unit 'A')		1547.2	-1436.0					
Eumeralla Fm.		1565.3	-1451.6				-1466.0	
Total Depth		1621.6	-1500.0				-1675.9	

Interval		ROP (ave)	Lithology Description							
1215	1234	4.0 – 8.0 (5.0)	SANDSTONE with trace CLAYSTONE below 1225m. SANDSTONE, white to very pale grey, fine to predominantly medium, occasionally coarse, sub-angular, moderate sorted, common pyrite crystals encrusted on some quartz grains, trace to moderate clay matrix, moderate calcite cement, friable, good porosity. CLAYSTONE, moderate to dark grey, soft, silty in part.							
Gas		Units:	0	Composition (%):						
Show Details										

Gas		Units:		Composition (%):						
Show Details										

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WELL: Dunbar-1 DW-1 **REPORT No.:** 04 **DAYS FROM SPUD:** 04 **DATE:** 22/03/2001
0000 hrs Depth: 1395 **LAST DEPTH:** 1217 **24 HR PROGRESS:** 178 **PTD:** 1622
0600 OPS: 23/03/01 - Drilling at 1457m. Current correlation suggests DW-1 is 3m. higher than Dunbar-1.
REMARKS: Top Belfast Mudstone pick is correlated to Belfast Mudstone top in Dunbar-1 @ 1405.5m.

PRIMARY OBJECTIVES:		SECONDARY OBJECTIVES:	
Waarre "C"	1485(MD) / 1465(TVD)		
Waarre "A"	1547(MD) / 1518(TVD)		
Spud Date: 16:00hrs 19/03/01	Surface Latitude: 38°32'53.79"	T.D. =	Metres R.T.
TD Reached Date:	Surface Longitude: 142°54'23.11"	G.L. = 77.2	Metres R.T.
Rig release Date:	Surface Eastings: 666 133.3	R.T. = 81.8	Metres R.T.
Rig O.D. & E Rig 30	Surface Northings: 5 731 612.3		
Nearby Well / Facility is...	244mm Casing Depth = 311.3	Metres R.T.	
<i>Kick-off from 1215m in Dunbar-1 (Drilled 1995)</i>	178mm Casing Depth = 1209.2	Metres R.T.	

Formation Tops (# Geophysical Picks)	Wellsite (mRT)	Prognosed Depths		Diff	H/L	Sub-Sea Depth Comparisons		
		(mRT)	(mSS)			DW-1	D-1	Diff
Skull Creek Member	1236	1233.8	-1152.0	2.2	low	-1154.2	-1152.0	-2.2
Nullawarre Greensand	-	Absent?					NP	
Belfast Fm.	1415	1373.3	-1286.0	??		-1321.2	-1323.4	+2.2
Waarre Fm. (Unit 'C')		1485.5	-1383.0				-1395.9	
Waarre Fm. (Unit 'A')		1547.2	-1436.0					
Eumeralla Fm.		1565.3	-1451.6				-1466.0	
Total Depth		1621.6	-1500.0				-1675.9	

Interval		ROP (ave)	Lithology Description						
1234	1236	1.6 – 1.9 (1.7)	SANDSTONE with minor CLAYSTONE. SANDSTONE, white to very pale grey, fine to predominantly medium, occasionally coarse, sub-angular, moderate sorted, common pyrite crystals encrusted on some quartz grains, trace to moderate clay matrix, moderate calcite cement, friable, good porosity. CLAYSTONE, moderate to dark grey, soft, silty in part.						
Gas		Units: 0	Composition (%): / / / / / / /						
Show Details									
1236	1285	2.0 – 9.4 (5.1)	Interbedded SANDSTONE and CLAYSTONE. SANDSTONE, white to pale grey, very fine, very argillaceous, occasional carbonaceous laminae, trace pyrite and lithics, poor porosity. CLAYSTONE, light to moderate grey, grey-brown, soft, silty & carbonaceous in part, trace dolomite, rare greenish lithic grains.						
Gas		Units: 0	Composition (%): / / / / / / /						
Show Details									
1285	1299	3.0 – 8.9 (5.1)	CLAYSTONE, moderate brown to grey-brown, soft, silty, carbonaceous in part.						
Gas		Units: 0	Composition (%): / / / / / / /						
Show Details									
1299	1330	1.0 – 7.8 (3.0)	SANDSTONE with interbedded CLAYSTONE. SANDSTONE, white, very fine to fine, occasionally medium to coarse, sub-angular to sub-rounded, poorly sorted, trace lithics, pyrite and carbonaceous material, moderate to abundant clay matrix, calcareous in part, poor to fair porosity. CLAYSTONE, moderate brown to grey-brown, soft, silty, carbonaceous in part.						
Gas		Units: 0 – 2	Composition (%): 100 / Tr / / / / /						
Show Details									

1330		1415	1.4 – 17.5 (5.0)	CLAYSTONE with rare LIMESTONE. CLAYSTONE, moderate grey-brown to brown, minor greenish blue to grey, soft, silty and carbonaceous in part. LIMESTONE, white to cream, silty and argillaceous, minor green lithic / glauconite? grains.
Gas			Units: 0 - 46	Composition (%): 98 / 2 / Tr / / /
Show Details				

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WELL: Dunbar-1 DW-1 **REPORT No.:** 05 **DAYS FROM SPUD:** 05 **DATE:** 23/03/2001
0000 hrs Depth: 1636 **LAST DEPTH:** 1395 **24 HR PROGRESS:** 241 **PTD:** 1622
0600 OPS: 24/03/01 - Rig up Reeves for wireline logging.
REMARKS: Waarre "C&A" in DW-1 are picked from ROP (porosity) and do not necessarily correspond to what is picked (Dunbar-1) or prognosed (DW-1) as the Top Waarre or Waarre "C/A" where these units are not necessarily picked on porosity.

PRIMARY OBJECTIVES:		SECONDARY OBJECTIVES:	
Waarre "C"	1485(MD) / 1465(TVD)		
Waarre "A"	1547(MD) / 1518(TVD)		
Spud Date: 16:00hrs 19/03/01	Surface Latitude: 38°32'53.79"	T.D. =	Metres R.T.
TD Reached Date: 11.00hrs 23/03/01	Surface Longitude: 142°54'23.11"	G.L. = 77.2	Metres R.T.
Rig release Date:	Surface Eastings: 666 133.3	R.T. = 81.8	Metres R.T.
Rig O.D. & E Rig 30	Surface Northings: 5 731 612.3		
Nearby Well / Facility is...	244mm Casing Depth = 311.3	Metres R.T.	
<i>Kick-off from 1215m in Dunbar-1 (Drilled 1995)</i>	178mm Casing Depth = 1209.2	Metres R.T.	

Formation Tops (# Geophysical Picks)	Wellsite (mRT)	Prognosed Depths		Diff	H/L	Sub-Sea Depth Comparisons		
		(mRT)	(mSS)			DW-1	D-1	Diff
Skull Creek Member	1236	1233.8	-1152.0	2.2	low	-1154.2	-1152.0	-2.2
Nullawarre Greensand	-	Absent?				NP		
Belfast Fm.	1415	1373.3	-1286.0	??		-1321.2	-1323.4	+2.2
Waarre Fm. ('C' sand)	1499.5	1485.5	-1383.0	14	Low	-1395.7	-1399.9	+4.2
Waarre Fm. ('A' sand)	1557.5	1547.2	-1436.0	10	Low	-1446.2	-1450.9	+4.7
Eumeralla Fm.	1572.5	1565.3	-1451.6	7	Low	-1460.0	-1465.9	+5.9
Total Depth	1636	1621.6	-1500.0			-1516.8	-1675.9	

Interval		ROP (ave)	Lithology Description								
1415.0	1499.5	4.0 – 12.0 (6.1)	CLAYSTONE, light to moderate grey-brown to brown, greenish blue to grey, soft, silty in part, trace carbonaceous specks, glauconitic, occasional silty and sandy lenses. Very sandy and glauconitic 1452 – 1458m.								
Gas		Units: 23-70	Composition (%):		94	/	5	/	1	/	/
Show Details											
1499.5	1522.0	1.3 – 5.4 (2.8)	SANDSTONE with trace SILTSTONE. SANDSTONE, clear to translucent, medium to coarse, occasionally very coarse, loose, angular to sub-angular, poor to moderate sorted quartz grains, good porosity. SILTSTONE, dark grey, soft to firm, sub-fissile, carbonaceous.								
Gas		Units: 129-607	Composition (%):		95	/	4	/	1	/	Tr /
Show Details											
1522.0	1530.5	1.8 – 10.6 (5.4)	SILTSTONE, light grey to light brown, soft, very argillaceous and grades to claystone, trace carbonaceous specks; minor greenish glauconitic stained, minor glauconite nodules, very argillaceous.								
Gas		Units: 115-150	Composition (%):		94	/	5	/	1	/	/
Show Details											
1530.5	1541.5	1.2 – 4.8 (2.1)	SANDSTONE, clear to translucent, fine to coarse, predominantly medium, sub-angular to sub-rounded, moderate sorted, trace clay matrix, loose, good porosity.								
Gas		Units: 88-605	Composition (%):		95	/	5	/	Tr	/	Tr /
Show Details											
1541.5	1557.5	3.1 – 8.5 (5.7)	SILTSTONE with rare COAL. SILTSTONE, light to moderate brown, soft, amorphous, very argillaceous and grades to claystone. COAL, dull black, grades to carbonaceous shale in part.								
Gas		Units: 94-573	Composition (%):		91	/	7	/	2	/	Tr /
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1557.5		1569.5	1.7 – 11.1 (2.6)	SANDSTONE, white to pale grey, fine to medium, occasionally coarse, sub-angular to sub-rounded, moderate sorted, common grey to grey-green lithics, trace carbonaceous material, rare pyrite, minor clay matrix, moderate to strong calcite cement at top, poor to fair porosity at top becoming fair to good at base.										
Gas		Units:	2061	Composition (%):		85	/	9	/	4	/	2	/	Tr
Show Details		Gas ranged between 1070 and 2061 units.												
1569.5		1572.5	5.5 – 13.2 (7.9)	SILTSTONE, moderate brown, minor dark brown to black, soft, very argillaceous and grades to claystone, carbonaceous in part.										
Gas		Units:	123-253	Composition (%):		92	/	6	/	2	/	Tr	/	
Show Details														
1572.5		1636.0	0.9 – 16.0 (3.6)	SANDSTONE, white, light to dark green, fine to coarse, sub-angular to sub-rounded, poor to moderate sorted quartz and green to grey-black volcano-lithic grains, abundant dispersive clay matrix, trace pyrite and carbonaceous material, minor calcite grains, moderate to strong calcite cement in part, friable, poor inferred porosity. CLAYSTONE, light to dark brown, soft to firm, silty and carbonaceous in part.										
Gas		Units:	63-315	Composition (%):		95	/	4	/	1	/	Tr	/	
Show Details														

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ORIGIN ENERGY PETROLEUM PTY.

WELL: Dunbar-1 DW-1 **REPORT No.:** 06 **DAYS FROM SPUD:** 06 **DATE:** 24/03/2001
0000 hrs Depth: 1636 **LAST DEPTH:** 1636 **24 HR PROGRESS:** 0 **PTD:** 1622
0600 OPS: 25/03/01 - Preparing to run casing.
REMARKS: Formation tops below are wellsite log picks.

PRIMARY OBJECTIVES:		SECONDARY OBJECTIVES:	
Waarre "C"	1485(MD) / 1465(TVD)		
Waarre "A"	1547(MD) / 1518(TVD)		
Spud Date:	16:00hrs 19/03/01	Surface Latitude:	38°32'53.79" T.D. = Metres R.T.
TD Reached Date:	11.00hrs 23/03/01	Surface Longitude:	142°54'23.11" G.L. = 77.2 Metres R.T.
Rig release Date:		Surface Eastings:	666 133.3 R.T. = 81.8 Metres R.T.
Rig	O.D. & E Rig 30	Surface Northings:	5 731 612.3
Nearby Well / Facility is...		244mm Casing Depth =	311.3 Metres R.T.
<i>Kick-off from 1215m in Dunbar-1 (Drilled 1995)</i>		178mm Casing Depth =	1209.2 Metres R.T.

Formation Tops (# Geophysical Picks)	Log Wellsite (mRT)	Prognosed Depths		Diff	H/L	Sub-Sea Depth Comparisons		
		(mRT)	(mSS)			DW-1	D-1	Diff
Skull Creek Member	1234.6	1233.8	-1152.7	-0.8	low	-1152.7	-1152.0	-0.7
Nullawarre Greensand								
Belfast Fm. ??	1417.5	1373.3	-1323.8	-44.2		-1323.8	-1323.4	-0.4
Waarre Fm. ('C' sand)	1500.0	1485.5	-1396.1	-14.5	Low	-1396.1	-1399.9	+3.8
Waarre Fm. ('A' sand)	1557.5	1547.2	-1447.5	-10.3	Low	-1447.5	-1450.9	+3.4
Eumeralla Fm.	1571.6	1565.3	-1460.0	-6.3	Low	-1460.0	-1465.9	+5.9
Total Depth	1636.0	1621.6	-1516.8	-14.4		-1516.8	-1675.9	

Interval	ROP (ave)	Lithology Description									
Gas	Units:	Composition (%):		/	/	/	/	/	/	/	/
Show Details											

Interval	ROP (ave)	Lithology Description									
Gas	Units:	Composition (%):		/	/	/	/	/	/	/	/
Show Details											