OIL COMPANY OF AUSTRALIA LIMITED DAILY GEOLOGICAL REPORT

DAILY (GEOLO	GICA	AL REP	ORT	-	ORIGII	N EN	ERGY	PET					ΓD
WELL:	_ D	unbar-	1 DW-1	REPORT N	lo.: 1-3	DAYS	FROM	SPUD:	03		DATE:	21/03/2	2001	
0000 hrs E	epth:	12	217 LAST DEPTH:			24 HF	RPROG		PTD: 1622					
0600 OPS	22	/03/01	- Drilling a	t 1236m.				_						
REMARKS	3: <u> </u>													
PRIMA	RY OBJE	CTIVE	S:			SECO	NDARY	OBJEC	TIVES:					
	Waarre "			35(MD) / '										
	Waarre "			17(MD) / '	•	•								
			Ohrs 19/03/			Latitude:		2'53.79"				Metre		
	hed Date:					ongitude:		4'23.11"			77.2	Metre		
Rig rele	ase Date:		0 F D:- 00			Eastings:		6 133.3		. = 8	81.8	Metre	s R.⊺	Г.
	Rig		& E Rig 30 y Well / Fa		urtace N	lorthings:		1 612.3 1 Casing		2	11.3	Metre	. D 1	_
	Kick-c		y vve ii i Fa i 1215m in .		1005)			า Casing า Casing				Metre	-	
	ruon c	<i>311 11 011</i>	1 12 10111 111	Baribar 1	1000)		1701111	ı oasını	g Dopti	1 - 12	200.2	Motro	3 11.	··-
Formation	Tops		Wellsi	te	Prognos	ed Depths	Diff	H/L	1	Sub-S	ea De	pth Com	paris	son
(# Geophys			(mR		mRT)	(mSS)				DW		D-1		Dit
01 11 0	1.14			400	20.0	4450.0			· —			450.0		
Skull Cree				123	33.8	-1152.0					-1	152.0		
Nullawarre		ind				bsent?						NP		
Belfast Fn					73.3	-1286.0						323.4		
Waarre Fr	•	·			35.5	-1383.0					-1	395.9		
Waarre Fr	•	(')			17.2	-1436.0								
Eumeralla					35.3	-1451.6						466.0		
Total Dept	th			162	21.6	-1500.0					-1	675.9		
Int	erval		ROP			L	itholog	y Desci	ription					
			(ave)											
1215	12	234	4.0 - 8.0			trace CLA								
			(5.0)			ite to very p							.1.	
						se, sub-ang e quartz gra								
						e quartz gra able, good i			Juerale	Clay II	ialiix, i	mouera	C	
				CLAYST	ONE, mo	derate to da	ark grev	, soft, sil	Ity in pa	rt.				
Gas			Units:	0		position (%		1		1	1		1	
Show Det	aile		2,,,,,	<u></u>			<u> </u>			- 1		<u> </u>		
SHOW Det	.a113													
Coo			Unito		Com	nosition (%	١.	, ,		,	,		,	

Show Details

WELL:	Dunba	ar-1 DW-1	REPORT N	o. : 04	DAYS	FROM S	PUD:	DATE : 22/03/2001					
0000 hrs D	epth:	1395 L	AST DEPT	H : 1217	24 HF	4 HR PROGRESS: 178 PTD: 1622							
0600 OPS:		1 - Drilling at											
REMARKS	Top Be	Ifast Mudstone	e pick is co	rrelated to E	Belfast Mu	udstone to	p in Du	ınbar-1 @	1405.5r	n.			
	RY OBJECTI		SECONDARY OBJECTIVES:										
	Waarre "C"		35(MD) / 1										
	Waarre "A" oud Date: 16		17(MD) / 1 ∩1	Surface L	atitude:	38°32'	53.79"	T.D. =		Meti	es R.T.		
TD Reach		.001113 13/03/		urface Loi		142°54		G.L. =			es R.T.		
Rig relea	ase Date:		•	Surface E	astings:				Γ. = 81.8 Metres R				
		D. & E Rig 30		urface No	rthings:		612.3	D	044.0				
	nea 1 Kick-off from	rby Well / Fa		led 1005)				g Depth = g Depth =			es R.T. es R.T.		
	NICK-OII II OIII I	2 TOITI III Dain	bai-i (Dilli	cu 1990)		17011111	Ousing	J Deptii -	1200.2	<u> </u>	C3 IV.11.		
Formation	Tops	Wellsi	te	Prognosed	Depths	Diff	H/L	Sı	ıb-Sea D	epth Co	mparisons		
(# Geophys	ical Picks)	(mR	T) (ı	mRT)	(mSS)				DW-1	D-1	Diff		
Skull Cree	k Member	1236	123	3.8 -	1152.0	2.2	low	-1	154.2	-1152.0	-2.2		
Nullawarre	Greensand	-		Abs	sent?					NP			
Belfast Fm	١.	1415	137	3.3 -	-1286.0		??		1321.2	-1323.4	+2.2		
	n. (Unit 'C')		148	-	1383.0					-1395.9			
	n. (Unit 'A')		154		1436.0								
Eumeralla			156		1451.6					-1466.0			
Total Dept	h		162	1.6 -	1500.0					-1675.9			
Int	erval	ROP	1			ithalası	, Dagar	intion					
1110	ervar	(ave)	Lithology Description										
1234	1236	1.6 – 1.9		ONE with r									
		(1.7)		ONE, white ally coarse							tolo		
				d on some									
			calcite ce	ment, friab	le, good	porosity.			•	,			
_				ONE, mode		i i	soft, sil	ty in part.		_			
Gas		Units:	0	Compo	sition (%):		1		1	1		
Show Det	ails												
1236	1285	2.0 – 9.4	Interbedo	led SANDS	STONE ar	nd CLAYS	STONE						
		(5.1)	SANDST	ONE, white	to pale g	grey, very	fine, v	ery argilla		occasion	al		
				eous lamin									
				ONE, light e dolomite,					t, siity &	carbona	iceous in		
Gas	L	Units:	0		sition (%		1/	1		1	1		
Show Det	aile	Oilito.	1 0	Compo	3111011 (70	<i>,</i> .			<u> </u>	,			
CHOW Det	uile	<u> </u>											
1285	1299	3.0 – 8.9	CLAYST	ONE, mode	erate brow	vn to grey	/-brown	, soft, silt	y, carbo	naceous	in part.		
		(5.1)		1			1 1						
Gas		Units:	0	Compo	sition (%):		1		1			
Show Det	ails												
1299	1330	1.0 – 7.8	SANDST	ONE with i	nterbedde	ed CI AYS	STONE						
	.000	(3.0)	SANDST	ONE, white	e, very fin	e to fine,	occasio	onally me					
			angular to	o sub-roun	ded, poor	ly sorted,	trace I	ithics, pyr	ite and o	carbonac	eous		
			material, porosity.	moderate t	o abunda	ant clay m	atrix, c	aicareous	s in part,	poor to 1	aır		
				ONE, mode	erate brov	vn to grev	/-brown	, soft, silt	y, carbo	naceous	in part.		
Gas		Units:	0 – 2		sition (%			Tr /		1	1		
Show Det	ails		•			<u>, , </u>	1	<u></u>					
2	-	1											

1330	1415	1.4 – 17.5 (5.0)	CLAYSTO silty and c	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 /										
Gas Show Details		Units:	0 - 46	Composition (%): 98 1 2 1 Tr 1 1										

DAYS FROM SPUD: 05

DATE: 23/03/2001

REPORT No.: 05

WELL:

Dunbar-1 DW-1

0000 hrs Depth: 1636 LAST DEPTH: 1395 24 HR PROGRESS: 241 **PTD**: 1622 0600 OPS: 24/03/01 - Rig up Reeves for wireline logging. Waarre "C&A" in DW-1 are picked from ROP (porosity) and do not necessarily correspond to what is **REMARKS:** 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. Kick-off from 1215m in Dunbar-1 (Drilled 1995) **178mm Casing Depth =** 1209.2 Metres R.T. Formation Tops Wellsite Prognosed Depths Diff H/L Sub-Sea Depth Comparisons (# Geophysical Picks) (mRT) (mSS) DW-1 D-1 Diff (mRT) -1152.0 -1152.0 -2.2 Skull Creek Member 1236 1233.8 2.2 -1154.2 low **Nullawarre Greensand** NP Absent? +2.2 Belfast Fm. 1415 1373.3 -1286 O ?? -1321.2 -1323.4Waarre Fm. ('C' sand) 1499.5 1485.5 -1383.0 14 Low -1395.7 -1399.9 +4.2 Waarre Fm. ('A' sand) 1547.2 -1436.0 -1446.2 -1450.9 +4.7 1557.5 10 Low Eumeralla Fm. +5.9 1572.5 1565.3 -14516 7 -1460.0 -1465.9 Low **Total Depth** 1621.6 -1500.0 -1516.8 -1675.9 1636 **Lithology Description** Interval **ROP** (ave) 1415.0 1499.5 4.0 - 12.0CLAYSTONE, light to moderate grey-brown to brown, greenish blue to grey, (6.1)soft, silty in part, trace carbonaceous specks, glauconitic, occasional silty and Very sandy and glauconitic 1452 – 1458m. sandy lenses. 23-70 94 5 Gas Units: Composition (%): **Show Details** SANDSTONE with trace SILTSTONE. 1499.5 1522.0 1.3 - 5.4SANDSTONE, clear to translucent, medium to coarse, occasionally very (2.8)coarse, loose, angular to sub-angular, poor to moderate sorted quartz grains, good porosity. SILTSTONE, dark grey, soft to firm, sub-fissile, carbonaceous 129-607 95 4 Tr Units: Composition (%): Gas **Show Details** 1530.5 1.8 - 10.61522.0 SILTSTONE, light grey to light brown, soft, very argillaceous and grades to (5.4)claystone, trace carbonaceous specks; minor greenish glauconitic stained, minor glauconite nodules, very argillaceous 94 Gas Units: 115-150 Composition (%): 5 1 **Show Details** SANDSTONE, clear to translucent, fine to coarse, predominantly medium, sub-1530.5 1.2 - 4.81541.5 (2.1)angular to sub-rounded, moderate sorted, trace clay matrix, loose, good porosity. 88-605 95 5 I Units: Composition (%): Tr Tr Gas **Show Details** 1541.5 1557.5 3.1 - 8.5SILTSTONE with rare COAL. SILTSTONE, light to moderate brown, soft, amorphous, very argillaceous and (5.7)grades to claystone. COAL, dull black, grades to carbonaceous shale in part 94-573 Composition (%): 91 2 Units: 7 Tr 1 Gas **Show Details**

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	1	9	1	4	1	2	1	Tr
Show Detai	ls	Gas ranged	Gas ranged between 1070 and 2061 units.										
1569.5 1572.5 5.5 – 13.2 SILTSTONE, moderate brown, minor dark brown to black, soft, argillaceous and grades to claystone, carbonaceous in part.								oft,	very				
Gas		Units:	123-253	Composition (%):	92	1	6	1	2	1	Tr		1
Show Detai	ls												
1572.5	1636.0	0.9 – 16.0 (3.6)	rounded, p grains, ab minor cald inferred po	DNE, white, light to do poor to moderate sort undant dispersive clay cite grains, moderate prosity. DNE, light to dark brow	ed quartz matrix, to stron	ar rac g c	id gree e pyrite alcite o	n to and em	grey-b d carbo ent in	olaci onac par	volca eous t, friab	ano- mat ole,	lithic erial, poor
Gas		Units:	63-315	Composition (%):	95	1	4	1	1	1	Tr		1
Show Detai	ls		•	_	•						•		•

WELL:	Dunhar.	-1 DW-1	REPORT N	Ja : 06	DAVS	EDOM S	יםוום. ה	16	D.	Λ Τ Ε·	24/03/2	·001
		636 LAST DEPTH: 1636				DAYS FROM SPUD: 06 24 HR PROGRESS: 0					1622	001
0600 OPS: 25/03/01 - Preparing to						i Kook	<u></u>	<u>'</u>		10.	1022	
_		n tops belov										
		•	w are wellsi	te log picks		ID A DV	D 150	TI) /EO				
PRIMARY OF Waarre			OF(MD) /	1465(TVD)	SECON	IDARY (DRJEC	IIVES				
Waarre			` '	1465(TVD) 1518(TVD)								
		00hrs 19/03		Surface L	atitude:	38°32'	53 79"	T.D) =		Metre	s R T
TD Reached Da		00hrs 23/03		urface Lo		142°54'		G.L		.2	Metre	
Rig release Da				Surface E		_	133.3	R.1			Metre	
		& E Rig 30		Surface No		5 731	612.3					
	y Well / Fa				244mm				1.3	Metres R.T.		
Kick-of	f from 12	15m in Dun	bar-1 (Dri	lled 1995)	•	178mm	Casing	Dept	n = 120	9.2	Metre	s R.T.
		T						_				
Formation Tops			_		d Depths	Diff H/L			Sub-Sea De			
(# Geophysical Picl	ks)	(mF	RT)	(mRT)	(mSS)				DW-1)-1	Diff
Skull Creek Member		1234.6	3 123	33.8 -	1152.7	-0.8	low		-1152.7	-11	52.0	-0.7
Nullawarre Green	nsand											
Belfast Fm. ??		1417.5	137	73.3 -	1323.8	-44.2			-1323.8	-13	23.4	-0.4
Waarre Fm. ('C'	sand)	1500.0	148	35.5 -	1396.1	-14.5	Low		-1396.1	-13	99.9	+3.8
Waarre Fm. ('A'	sand)	1557.5	5 154	47.2 -	1447.5	-10.3	Low		-1447.5	-14	50.9	+3.4
Eumeralla Fm.		1571.6	156	35.3 -	1460.0	-6.3	Low -		-1460.0	-14	65.9	+5.9
Total Depth		1636.0	162	21.6 -	1516.8	-14.4			-1516.8	-16	75.9	
Interval		ROP (ave)	Lithology Description									
			1	Τ_	141 (64)		Τ,Τ	l		1.		
Gas		Units:		Compo	sition (%):	:	1		1	1		1
Show Details												
Gas		Units:		Compo	sition (%):	:	1		1	1		1

Show Details