# APACHE CORPORATION Daily Drilling Report

WELL NAME																	DA.	TE	
DORY-1																	13-	-11-2008	
API#		24 HF	RS PR	OG		1	TMD					T۷	/D				REI	PT NO	
OH 439.00 (m)			0 (m)	1) 2,9				2,955.00 (m)				2,9	953.96 (m)						
RIG NAME NO FIELD			FIELD	LD NAME				AUTH TMD			PLANNED		DOW DOL			DFS / KO		WATER DEPTH	
OCEAN PATRIOT			DORY					3,82	1.50 (m)		26.02 (d	ays)		12.40 (days	)	8.85 (day	ys)	518.48 (m)	
SPUD DATE	Rig Release	-	WE	ELL SI	UPERVIS	OR							OIM					PBTMD	
04-11-2008	25/11/2008		PA	AT BR	OWN / D	AVID SYMIN	NGTO	N					DENNIS G	ORE					
REGION DI			DI	DISTRICT					STATE / PROV					RIC		IG PHONE NO		RIG FAX NO	
AUSTRALIA			OF	OFFSHORE					VICTORIA			(08			(08) 93	3) 9338 5640			
AFE # 096 08EE6				AFE	COSTS					DAILY CO	OSTS				CUMU	LATIVE C	OSTS		
DESCRIPTION:				DHC	: 2	26,682,148		DH			DHC: 933,237			DH			HC: 14,673,987		
Vertical Exploration	n Well.			DCC	<b>:</b> :					DCC:					DCC:				
				cwo	D:					CWC:					CWC:				
				Othe	ers:					Others:					Others	:			
				тот	AL: 2	26,682,148				TOTAL:	933,23	7			TOTA	L: 14,67	3,987		
DEFAULT DATUM / ELEVATION					AST SAF	ETY MEETII	NG	BLOCK	BLOCK				FORMATION				BH	HA HRS OF SERVICE	
ROTARY TABLE / 21.50 (m)					13/11/2008				VIC-P59							41.50			
LAST SURVEY						LA	LAST CSG SHOE TEST			T (EMW) LAST C		CASING			EXT CASIN	IG			
MD 2,938	8.52 (m)	NC 1	.23°		AZM	64.27°	1.3	34 (sg)			340.0	000 n	nm @ 1,534	.1 m					

CURRENT OPERATIONS: RIH 127mm (5") drill pipe.

24 HR SUMMARY: Drilled 216mm (8-1/2") hole from 2516m to 2719m. Conducted check trip - hole condition good. Drilled 216mm (8-1/2") hole from 2719m to 2892m.

Backreamed from 2892m to 2400m. RIH and drilled 216mm (8-1/2") hole from 2892m to 2955m. POH to surface.

24 HR FORECAST: RIH to 340mm (13-3/8") casing shoe. Slip and cut drilling line. RIH and drill 216mm (8-1/2") hole.

### **OPERATION SUMMARY**

From	То	HRS	Phase	Operation	PT/NPT	NPT CODES	ACTIVITY SUMMARY
0:00	4:00	4.00	P-DRL	DRLG	PP		Recorded SCR's. Drilled 216mm (8-1/2") hole from 2516m to 2719m. Ave ROP 50.7m/hr.  4.5 - 15.8MT (10 - 35klbs) WOB, 100 - 180 rpm, 8.1 - 19.0kN.m (6 - 14kft.lbs) torque, 2.91m³/min (770gpm) flow rate, 27,925kPa (4050psi) SPP, 154.2MT (340klbs) string weight up, 149.7MT (330klbs) string weight down, 145.1MT (320klbs) string weight rotating.  Note: 2,758kPa (400psi) SPP increase while drilling at 2546m - hole exhibiting signs of pack-off. Picked up off bottom and backreamed from 2546m to 2521m twice. Recorded string weights: Rotating Up - 145.1MT (320klbs), Rotating Down - 145.1MT (320klbs), Straight Up (No pump or rotation) - 154.2MT (340klbs), Straight Down - 149.7MT (330klbs).
4:00	4:30	0.50	P-DRL	RMWASH	PP		Backreamed stand once from 2719m to 2691m to monitor hole conditions. Rotating string weights: Up - 145.1MT (320klbs), Down - 145.1MT (320klbs). POH from 2719m to 2662m (2 stands) without pump or rotation to monitor hole conditions prior to intersecting primary target. String weights: Up - 158.7MT (350klbs), Down - 154.2MT (340klbs). Correct hole fill recorded. No gas peaks encountered above background levels while drilling Angler Sub-Group, no indications of sloughing or evidence of cavings or splintered cuttings over shakers. Hole conditions good with no drag.
4:30	7:30	3.00	P-DRL	DRLG	PP		Drilled 216mm (8-1/2") hole from 2719m to 2892m. Ave ROP 57.6m/hr.  9.1 - 15.8MT (20 - 35klbs) WOB, 160 rpm, 8.1 - 19.0kN.m (6 - 14kft.lbs) torque, 2.91m³/min (770gpm) flow rate, 29,821kPa (4325psi) SPP, 158.7MT (350klbs) string weight up, 154.2MT (340klbs) string weight down, 145.1MT (320klbs) string weight rotating.
7:30	8:00	0.50	P-DRL	CIRC	PN	FP	Recorded 10% gas peak while drilling at 2892m. Picked up off bottom and circulated gas from well - no mud cut observed.
8:00	10:30	2.50	P-DRL	RMWASH	PP		Conducted flow check - well static. Backreamed out of hole from 2892m to 2400m. No overpull observed.
10:30	11:00	0.50	P-DRL	RIGSER	PP		Serviced TDS and travelling block while circulating.
11:00	12:00	1.00	P-DRL	RIH	PP		RIH from 2400m to 2892m - no drag or fill on bottom observed.
12:00	15:00	3.00	P-DRL				Drilled 216mm (8-1/2") hole from 2892m to 2955m. Ave ROP 21m/hr.  ROP decreased to <4m/hr.  9.1 - 18.1MT (20 - 40klbs) WOB, 100 - 165 rpm, 8.1 - 19.0kN.m (6 - 14kft.lbs) torque,  2.86m³/min (755gpm) flow rate, 30,338kPa (4400psi) SPP.
15:00	19:30	4.50	P-DRL	TRIP	PP		Conducted flow check - well static. POH 127mm (5") drill pipe from 2955 to 1509m - tight hole encountered at 2393m and 2212m with 22.7MT (50klbs) overpull. Worked pipe once through tight hole - drag returned to normal. Ave tripping speed 321m/hr.

## APACHE CORPORATION

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**Daily Drilling Report** 

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 API #
 24 HRS PROG
 TMD
 TVD
 REPT NO

 OH
 439.00 (m)
 2,955.00 (m)
 2,953.96 (m)
 16

#### **OPERATION SUMMARY**

From	То	HRS	Phase	Operation	PT/NPT	NPT CODES	ACTIVITY SUMMARY
19:30	21:00	1.50	P-DRL	TRIPBHA	PP		POH 127mm (5") DP from 1509m to BHA at 384m. Ave tripping speed 750m/hr.
21:00	22:30	1.50	P-DRL	TRIPBHA	PP		POH and racked back 127mm (5") HWDP. POH and racked back 171mm (6-3/4") drill collars.
22:30	0:00	1.50	P-DRL	LWD	PP		Removed RA sources from ALD and CNP LWD tools (20 mins). Laid down BAT, ACAL and float sub to pipe deck to download memory data. Picked up 127mm(5") DP single and made up to tool string for finger board space out. Plugged into MWD/LWD and downloaded data from AFR tool (required prior to breaking and laying out same). Racked back LWD in derrick to complete downloading offline.

24.00 = Total Hours Today

#### 06:00 UPDATE

0000-0600

00:00 - 01:00hrs: POH to bit. Near bit stabiliser 25mm (1") undergauge and bit rung out. Broke off bit and near bit stabiliser and laid out same (Bit graded

4-8-RO-S-X-1-BT-PR). Made up new 214mm (8-7/16") near bit stabiliser and bit and RIH. Offline: Downloaded memory data from BAT tool.

01:00 - 01:30hrs: Broke out failed AFR tool and laid out. Picked up and made up back-up. Offline: Assessed AFR memory data - spurious below 1900m.

01:30 - 02:00hrs: Picked up MWD/LWD stand from derrick consisting of PWD, ALD + CNP and HOC. Cleaned wet connects prior to make up.

02:00 - 03:00hrs: Plugged into HOC and AFR tools. Checked tool string - OK. Initialised same.

03:00 - 04:00hrs: Made up float sub with re-dress ported float. Picked up back-up BAT. Broke off back-up ACAL and laid out. Made up primary ACAL.

Note: Back-up BAT tool needed following difficulties with downloading useable data from primary tool. No batteries for back-up ACAL - primary ACAL

broken off primary BAT and made up to tool string. Laid out 127mm drill pipe single to pipe deck.

04:00 - 04:30hrs: Loaded RA sources into ALD and CNP LWD tools.

04:30 - 05:00hrs: Picked up 1 x stand 127mm (5") DP. Made up TDS and shallow tested MWD at 2.65m3/min (700gpm) - OK.

05:00 - 06:00hrs: Picked up and RIH 171mm (6-3/4") drill collars and 127mm (5") HWDP from derrick.

HSE: 1 FAC reported. Report to follow. Total Stop cards - 83 (30 unsafe, 53 safe).

JSA - 32, PTW - 17.

			- I VV - 17.					BI	T DA	ATA									
BIT / RUN SIZE MANUFACTURER (mm)			TY		RIAL NO	JETS OR TFA			DEPTH IN / DATE IN				I-O-D-L-B-G-O-R						
3RR / 4 216.0 SMITH					Mi519	9BPX JX	(5589			1,537.00 / 11-11-2008				4-8-RO-S-X-1-BT-PR					
								BIT OF	PER/	ATIONS									
BIT / RUN WOB		RPM	RPM FLOW		PRESS		IIT	HRS	24 Hr PROG	24	24 HR ROP		CUM HRS		CUM PROG		CUM ROP		
3RR/4 5/14 100/180 2,8		812.50	27,752 800		09	3.00					28.30		923.00		32.6				
LCM:							М	UD PROP	ERT	TES			М	UD TYPE	: KC	L/P0	OLYMER		
VIS	VIS PV/YP GELS		GELS	S WL/HTF		FC/T.	SOL	L OIL/WAT		% SAND/MBT	SAND/MBT pH/Pm		Pf/Mf		Ca		H2S	KCL	LGS
(s/l )	(cp)/		(Pa )	(ml	/30 min )	(mm ) /		(%)		(% )/(sg )	(mL)	(1	nL)	(ppm )	(ppm	)	(%)	(ppm	) (%)
53	12/2		9/10		76	1/3	3 			0									2
Density	(sg )		1.15					PP		DAI	LY COST	37,293	CUN	/ COST	305,68	38	%OI	<u> </u>	
BHA		4	JAR	R S/N	7602018			BHA / HOLE CONDITION				NS JAR H			80.50 B		ВІТ	Г	3RR
BHA W	T BELOV	V JARS		STRING W	T UP		STRIN	STRING WT DN STRING			VT ROT	TORQUE/UNITS				ВН	A LENG	тн	
	23 (tonne	)		154 (tonr	ie)		150	(tonne)		147 (tonne)			12	(kN-m)			38	34.17 (n	1)
		ITE	M DESCRI	PTION			NO JTS			LENGTH	LENGTH O.D		I.D		C	ONN	I SIZE	CC	ONN TYPE
		Hea	vy Weight D	Orill Pipe			17			158.79	158.79 127.00		79.38						
			Hydraulic	Jar			1			9.36 158.70		.70	69.85						
Heavy Weight Drill Pipe							6		56.17	127	127.00		79.38						
Spiral Drill Collar							12		112.92	171	171.40		69.85						
Integral Blade Stabilizer							1		1.78	216	216.00		73.02						
Logging While Drilling							1		8.65	171	.40	47.63							
Float Sub						1	1		0.78	171	.40	73.02							
Pulser Sub								1		3.06	171	171.40		47.63					
											_		+					+	

#### **APACHE CORPORATION** Page 3 of 5 **Daily Drilling Report** WELL NAME DATE DORY-1 13-11-2008 API# 24 HRS PROG REPT NO TMD TVD OH 439.00 (m) 2,955.00 (m) 2,953.96 (m) 16 ITEM DESCRIPTION NO JTS LENGTH I.D CONN SIZE CONN TYPE Pulser Sub 2.70 171.40 47.63 Logging While Drilling 7 89 171.40 47 63 MWD Tool 1 2.51 171.40 47.63 Integral Blade Stabilizer 1 1.22 212.70 73.02 Logging While Drilling 1 9.36 171.40 47.63 171.40 73.02 MWD Tool 1 2.70 Integral Blade Stabilizer 1 1.67 214.30 73.02 Pony Drill Collar 1 2.53 171.40 47.63 Near Bit Stabilizer 1 1.81 214.30 73.02 0.27 Polycrystalline Diamond Bit 1 216.00 73.02 **SURVEY** TYPE MD DEG ΑZI TVD +N/-S +E/-W V.SECT D.L (m) (m) (°/30m) (°) (°) (m) (m) (m) NORMAL 2,534.92 1.73 35.80 2,534.01 -4.43 -11.20 -5.40 0.12 NORMAL 2,563.90 1.80 33.67 2,562.98 -3.69 -10.69 -4.63 0.10 NORMAL 2,592.89 25.08 2,591.96 -2.92 -10.25 -3.82 0.28 1.74 NORMAL 25.98 -9.89 -3.04 0.21 2.621.85 1.54 2.620.91 -2.17NORMAL 2.650.67 1.53 25.37 2.649.72 -1.47 -9.56 -2.320.02 **NORMAL** 2,679.36 1.32 23.81 2,678.40 -0.82 -9.26 -1.64 0.22 NORMAL 2,736.48 1.19 38.56 2,735.50 0.24 -8.62 -0.53 0.18 NORMAL 2,765.32 1.50 54.76 2,764.34 0.69 -8.13 -0.03 0.51 NORMAL 2,794.00 1.49 54.96 2,793.01 1.12 -7.52 0.45 0.01 NORMAL 2.823.06 1.51 57.63 2.822.06 1.55 -6.88 0.93 0.08 NORMAL 2.851.45 1.44 61.34 2.850.44 1.92 -6.26 1.35 0.13 **NORMAL** 2,909.60 1.41 63.70 2,908.57 2.59 -4.97 2.13 0.03 NORMAL 2,938.52 1.23 64.27 2,937.48 2.88 -4.37 2.48 0.19 **CASING** DESCRIPTION SIZE WEIGHT GRADE SETTING DEPTH S/T ОН SURFACE 340.00 1,534.14 ОН CONDUCTOR 762.00 585.00 MUD PUMPS/HYDRAULICS SPR STROKE LINER SPM FLOW SPM PPSR SPP: 27,752 (kPa) 304.80 30 152.40 485 #2 304.80 50 152.40 809 304.80 35 152.40 HP: 1.025 (kW/cm²) PERSONNEL DATA COMPANY QTY HRS COMPANY QTY HRS BHI 4 BAKER ATLAS ВЈ 1 **KEMTECH** 2 BRANDT 1 **VETCO** SUBSEA 7 SPERRY SUN 10 APACHE 5 DOWELL DODI 59 **TOTAL PERSONNEL ON BOARD: 95** SUPPORT CRAFT TYPE REMARKS FAR GRIP In Geelong.

#### **APACHE CORPORATION** Page 4 of 5 **Daily Drilling Report** WELL NAME DATE DORY-1 13-11-2008 API# 24 HRS PROG TMD REPT NO TVD ОН 439.00 (m) 2,955.00 (m) 2,953.96 (m) 16 SUPPORT CRAFT TYPE REMARKS SWISSCO 168 On Location. HELICOPTER JYN (Pax On - 7, Pax Off - 7). Enroute to Geelong. NOR CAPTAIN FAR SKY On Location. HELICOPTER MATERIALS/CONSUMPTION ON HAND ITEM ITEM UNITS USAGE USAGE ON HAND UNITS BARITE BULK BENTONITE МТ 43 MT CEMENT MT 102 DIESEL m3 369 WATER, POTABLE WATER, DRILLING 26 335 96 584 m3 m3 WEATHER TIME **SWELL** WAVE WIND SPEED/DIR **GUST SPEED/DIR** TEMP HT/DIR/PER HT/DIR/PER 00:00 1.00/45.00/3 0.20/45.00/3 9.8/45.00 **DECKLOG** MAX VDL AVG VDL ACT VDL LEG PEN (BOW) LEG PEN (PORT) LEG PEN (S BOARD) 2560 2038 2038 SAFETY DRILLS **ANNULARS** CASING LAST BOP NEXT BOP FIRE **H2S DRILL** MAN ABND. (kPa) (kPa) DRILL PRESS TEST DRILL OVERBRD DRILL 09-11-2008 / 41,370 09-11-2008 / 41,370 10-11-2008 / 17,238 10-11-2007 24-11-2007 09-11-2008 09-11-2008 INCIDENT REPORT INCIDENTS TYPE FIRST AID LOST TIME? NO INCIDENTS DESCRIPTION ANCHOR TENSION DATA ANCHOR NO ANCHOR NO **CURRENT TENSION CURRENT TENSION CURRENT TENSION** ANCHOR NO 186 2 182 3 165 4 167 5 182 6 181 196 9 8 188 10 11 12

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### MUD INVENTORY

ITEM	UNIT	USAGE	Day Cost (\$)	ON HAND							
CAUSTIC SODA - NaOH	25.00 kg		0.00	20.00							
SAFE-CIDE	25.00		0.00	48.00							
SODA ASH- SOD.CARBONATE-Na2CO3	25.00 kg		0.00	23.00							
KCL BRINE (1.15SG)	1.00 bbl	265.00	26,007.10	0.00							
GUAR GUM	25.00 kg		0.00	0.00							
FLOWZAN	25.00 kg	15.00	4,084.95	59.00							
POLYSAI	25.00 kg		0.00	60.00							
BARITE (bulk)	MT	3.00	841.83	85.30							
CIRCAL 1000	25.00 kg		0.00	94.00							
CIRCAL 60/16	25.00 kg	44.00	778.36	188.00							
BENTONITE (BULK)	MT		0.00	47.00							
CALCIUM CHLORIDE 74-77%	25.00 kg		0.00	80.00							
SOLTEX	25.00 kg	34.00	3,014.78	206.00							
DRISPAC SL	25.00 kg	21.00	2,565.99	59.00							
SAPP	25.00 kg		0.00	40.00							
CIRCAL Y	25.00 kg		0.00	96.00							
CITRIC ACID	25.00 kg		0.00	40.00							
KWIKSEAL (M)	40.00 lbs		0.00	54.00							
SODIUM BICARBONATE - NaHCO3	25.00 kg		0.00	40.00							
KWIKSEAL (F)	40.00 lbs		0.00	54.00							