APACHE CORPORATION

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Daily Drilling Report

WELL NAME																		DA	TE	
ELVER-1																		12-	-01-2009	
API#		24 HF	RS PR	lOG			TME)					T۱	V D				REI	PT NO	
ОН		0.00 ((m)				5,27	70.00	(m)				3,	947.00 (m)				26		
RIG NAME NO			FIELD	NAME	•				AUT	H TMD		PLANN	ED D	ow	DOL		DFS / K)	WATER DEPT	ГН
OCEAN PATRIOT			ELVE	R								36.40 (days))	25.79 (days)	23.27 (days)	504.90 (m)	
SPUD DATE	Rig Release		w	ELL SI	UPERVI	SOR								OIM					PBTMD	
21-12-2008			Р	AT BR	OWN / I	KERRY PAF	RKER							DENNIS G	ORE				3,150.00 (m)	
REGION			D	ISTRIC	т					STATE	/ PROV					RIG PH	ONE NO		RIG FAX NO	
AUSTRALIA			0	FFSHC	DRE					VICTOR	RIA					(08) 933	38 5640			
AFE # 09408EF5				AFE	COSTS						DAILY CO	OSTS				сими	LATIVE (OSTS		
DESCRIPTION:				DHC	:	38,786,601					DHC:	964,04	19			DHC:	30,8	54,634		
Directional Explorat	tion Well			DCC	; :						DCC:					DCC:				
				cwc	D:						CWC:					CWC:				
				Othe	ers:						Others:					Others	:			
				TOT	AL:	38,786,601					TOTAL:	964,04	19			TOTAL	L: 30,8	54,634		
DEFAULT DATUM	ELEVATION			L	AST SA	AFETY MEET	ΓING	BI	LOCK					FORMATION	N			BH	IA HRS OF SER	VICE
WELL / 21.50 (m)				1	12/01/20	09		VI	C-P59										169.50	
LAST SURVEY								LAST	CSG S	HOE TES	ST (EMW)	LAS	T CA	SING		NE	EXT CAS	NG		
MD 5,230).64 (m) II	NC 3	80.04°		AZM	1 193.13	3°	1.60 (sg)			244.	.000 r	mm @ 3,243	.9 m					
												_								

CURRENT OPERATIONS: RIH to tag top of cement.

24 HR SUMMARY: Cut & slipped drill line, POH, L/D BHA, RIH with cementing string to 3750m, set two cement plugs, 3650m-3450m, 3300m-3150m, POH to 3100m, CBU,

POH to 2660m L/O excess DP while WOC.

24 HR FORECAST: Cont to L/O excess tubulars, press test cement plug, cont with P & A operations.

OPERATION SUMMARY

From	То	HRS	Phase	Operation	PT/NPT	NPT CODES	ACTIVITY SUMMARY
0:00	2:30	2.50	P-DRL	CUTDL	PP		Cut and slipped 39m of drilling line.
2:30	3:00	0.50	P-DRL	RIGSER	PP		Serviced TDS and travelling equipment.
3:00	8:00	5.00	P-DRL	TRIP	PP		POH from 3228m to directional components at 39m.
8:00	10:00	2.00	P-DRL	MWD_LWD	PP		Removed R/A source, L/D directional components, Downloaded memory from tools on deck. Bit # 5 Bit grade = 0-1-NO-X-1-NO-TD.
10:00	15:30	5.50	PA-PLUG	TRIP	PP		Made up open ended mule shoe, RIH on 127mm (5") drillpipe to 3750m.
15:30	16:00	0.50	PA-PLUG	CIRC	PP		Established circulation, spotted 3.9m3 (25bbl) hi vis pill from 3750m to 3650m. Held cementing JSA.
16:00	16:30	0.50	PA-PLUG	TRIP	PP		POH from 3750m to 3650m, made up surface cementing equipment.
16:30	17:30	1.00	PA-PLUG	SPOTCMT		Lined up to Dowell. Pumped 1.58m³ (10bbls) drill water and pressure tested surface to 13,790kPa (2000psi).Pumped 1.58m³ (10.0 bbls) drill water followed by 10% exces 8.04m³ (50.6 bbls) 1.85SG (15.8ppg) G cement tail slurry. Displaced slurry with 1.24r (7.8bbls) drill water followed by 30.3m³ (190.7bbls) 1.15SG (9.6) WBM and set Balai Cement Plug #1 from 3650m to 3450m. Cement in place at 17.27 hours. Full returns throughout cement job.	
17:30	18:30	1.00	PA-PLUG	CIRC	PP	Rigged down surface cementing equipment, POH 127mm (5") drillpipe from 3650m to 3400m, M/U to TDS, circulated and spotted 3.9m3 (25bbl) hi vis pill from 3400m to 3300m.	
18:30	19:00	0.50	PA-PLUG	TRIP	PP		POH from 3400m to 3300m, (57m below 244mm (9-5/8") casing shoe), made up surface cementing equipment.Held cementing JSA.
19:00	20:00	1.00	PA-PLUG	TRIP	PP		Lined up to Dowell. Pumped 1.58m³ (10bbls) drill water and pressure tested surface lines to 13,790kPa (2000psi) Pumped 1.58m³ (10bbls) drill water followed by 10% excess 5.8m³ (37 bbls) 1.94SG (16.2ppg) G cement tail slurry. Displaced slurry with 0.349m³ (1.12 bbls) drill water followed by 27.02m³ (170 bbls) 1.15SG (9.6) WBM and set Balanced Cement Plug #2 from 3300m to 3150m. Cement in place at 19:57 hours. Full returns throughout cement job.
20:00	21:00	1.00	PA-PLUG	TRIP	PP	Rigged down surface cementing equipment, POH slowly 127mm (5") drillpipe from 3300m to 3100m, M/U to TDS.	
21:00	22:00	1.00	PA-PLUG	CIRC	PP	Circulated bottoms up with 1.15 sg (9.6ppg) mud , no cement contamination observed. flow checked, (well static).	
22:00	22:30	0.50	PA-PLUG	woc	PP		POH from 3100m to 3092m, racked back stand, rigged up to L/O tubulars.
22:30	23:30	1.00	PA-PLUG	woc	PP		POH from 3092m to 2660m laying out excess diamond offshore tubulars while waiting on cement. Total of 45 joints.
23:30	0:00	0.50	PA-PLUG	WOC	PP		Changed handling equipment, rigged up to L/O excess drillcollars and HWDP.

APACHE CORPORATION

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Daily Drilling Report

WELL NAME				DATE
ELVER-1				12-01-2009
API#	24 HRS PROG	TMD	TVD	REPT NO
OH	0.00 (m)	5,270.00 (m)	3,947.00 (m)	26

24.00 = Total Hours Today

06:00 UPDATE

0000-0600

00:00-01:00 RIH from 2660m to 2855m w/- 171mm (6-3/4") drill collars and HWDP.

01:00-03:00 POH from 2855m to 2660m laying out 3 x 171mm (6-3/4") drill collars and 17 joints of HWDP, 1 x set of jars.

03:00-05:30 Rigged to pressure test cement to 14479 kPa (2100 psi) with cement unit, pressure tested cement against lower ram with flow path down drill string & kill line, Pressured up to 14134 kPa (2050) psi, pressure decreased rapidly to 12204 kPa (1480 psi) and then remained with a constant loss of 55 kPa (8 psi) per min. Re-tested to 11721 kPa (1700 psi), pressure bled off, Changed line up to eliminate surface leak path possibilities, Pumped down drill string only and pressured up on third test to 1900psi and pressure bled off. Total mud pumped over 3 tests= 3.9 m3 (25 bbls).

05:30-0600 Rigged down testing assembly, RIH to 2680m.

HSE: No accidents, incidents or pollution reported.

Total Stop cards - 45 (16 unsafe, 45 safe). JSA - 37, PTW - 12

	BIT DATA																	
BIT / RUN SIZE MANUFACTURER (mm)			TYPE	SERIA NO	L JETS	OR TFA	DEPTH IN / DATE IN			I-C	I-O-D-L-B-G-O-R							
	5 / 1	1	216.0	HUG	SHES CHRISTEN	SEN	HC506	ZX 72132	98 2x1	4, 4x16		4,433.00 / 07-01-2009			0-1	0-1-NO-A-X-I-NO-TD		
LCM: 0							MUD PROPERTIES					MUD TYPE: KCL/POLYMER						
VIS (s/l)		//YP / (Pa)		GELS (Pa)	· ·		OL (%)	OIL/WAT (%)	% SAND/MBT (%)/(sg)	pH/Pm (mL)		/Mf nL)	CI (ppm)	Ca (ppm)	H2S (%)	KCL (ppm)	LGS (%)	
62		2/23		7/10	4/0	1/9		0/0	0/7	10.00/0.00	1.30	/2.60	55,000	140	0	0	5	
Dens	ty (sg)		1.15		ECD (sg)	0.00		PP	DAIL	Y COST	2502	CUI	A COST	769,79	94 %	OIL	5	
ВН		6		JAR S/N	17605011		BHA / HOLE CONDITIO			ONS	JAR HRS 169.50) [BIT 5				
ВН	WT BEL	OW JAR	s	STR	ING WT UP		STRING	WT DN	STRING W	/T ROT		TORQUE/UNITS			В	BHA LENGTH		
	(tonne	e)		((tonne)		(ton	ne)	(tonn	(tonne)			(kN-m)			346.67 (m)		
			ITEM DE	SCRIPTIC	N			NO JTS	LENGTH	0.	D	I.D		C	CONN SIZE		CONN TYPE	
		Н	leavy We	eight Drill P	ipe			26	242.35	127	127.00		79.38					
			Hydr	aulic Jar				1	9.92	165	165.10		69.85					
		Н	leavy We	eight Drill P	ipe			3	28.16	127	127.00		79.38					
			Dril	ll Collar			3		28.22	171.45		69.85						
		In	ntegral Bl	lade Stabili	zer			1	1.78	212	212.73		76.20					
		L	ogging '	While Drilli	ng			1	8.14	190	190.50		92.08					
		l	Logging \	While Drilli	ng		1		3.58	212	.85	82.55						
		l	ogging '	While Drilli	ng			1	8.48	8.48 175.01		82.55						
Logging While Drilling						1		8.04	209	.55		76.20						
Steering Tool						1	7.66	212	.73		76.20			7	5/8 REG			
		Pol	ycrystalli	ine Diamor	nd Bit			1	0.34	216.00		76.20						
								CAS	SING									
S/T DESCRIPTION							SIZE	WEIGHT			GRADE				SETTING DEPTH			
OH SURFACE							340.00		178.58		X 56				1,735.93			
OH CONDUCTOR OH INTERMEDIATE 1						762.00 244.00		20.04		X 56				573.00				
	··]				PUMPS/HYD	RAULI	CS	244.00	ı	03.34	69.94 L-80 3,243.90 SPR						,,,	
	STRO	KE	s	PM	LINER		.ow	SPP:					SPI			PPS	R	
# 1	304.8	0	8	31	152.40	1:	311											
#2	304.8	0	8	31	152.40	1	311											
#3	304.8	0	8	31	152.40	1:	311											

APACHE CORPORATION Page 3 of 4 **Daily Drilling Report** WELL NAME DATE **ELVER-1** 12-01-2009 API# 24 HRS PROG TMD REPT NO TVD 0.00 (m) OH 5,270.00 (m) 3,947.00 (m) 26 PERSONNEL DATA COMPANY COMPANY HRS QTY QTY HRS SUBSEA 7 3 Catering 8 KEMTECH 2 APACHE ANADRILL 4 DODI 53 ВНІ DOWELL 2 6 BAKER ATLAS 3 **TOTAL PERSONNEL ON BOARD: 85** SUPPORT CRAFT TYPE REMARKS FAR SKY On Loc SWISSCO 168 On Loc S-76 2 x choppers-pax in 6, pax out 8. YARABAH On Route to Geelong FAR GRIP In Geelong MATERIALS/CONSUMPTION ON HAND ITEM UNITS USAGE ITEM UNITS USAGE ON HAND BARITE BULK BENTONITE 68 MT MT 153 CEMENT МТ 74 DIESEL m3 548 WATER, POTABLE WATER, DRILLING m3 19 359 m3 41 499 **WEATHER** TIME **SWELL** WAVE WIND SPEED/DIR **GUST SPEED/DIR TEMP** HT/DIR/PER HT/DIR/PER 00:00 / /260.00/3 1.00/230.00/9 5.1/260.00 **DECKLOG** AVG VDL LEG PEN (BOW) LEG PEN (PORT) LEG PEN (S BOARD) MAX VDL ACT VDL 2560 1863 1863 SAFETY DRILLS RAMS ANNULARS CASING LAST BOP NEXT BOP FIRE **H2S DRILL** MAN ABND. DRILL PRESS TEST DRILL OVERBRD DRILL (kPa) (kPa) 11-01-2009 / 34,475 11-01-2009 / 34,475 27-12-2008 / 17,237 25-12-2008 14-01-2009 11-01-2009 11-01-2009 INCIDENT REPORT INCIDENTS TYPE NONE LOST TIME? NO INCIDENTS DESCRIPTION No incidents today. ANCHOR TENSION DATA ANCHOR NO ANCHOR NO **CURRENT TENSION CURRENT TENSION CURRENT TENSION** ANCHOR NO 1 185 2 184 3 188 175 5 175 6 191 7 202 8 198 9 12 10 11

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 WELL NAME

 ELVER-1
 12-01-2009

 API #
 24 HRS PROG
 TMD
 TVD
 REPT NO

 OH
 0.00 (m)
 5,270.00 (m)
 3,947.00 (m)
 26

MUD INVENTORY

				,
ITEM	UNIT	USAGE	Day Cost (\$)	ON HAND
CIRCAL 60/16	25.00 kg		0.00	42.00
NUT PLUG	50.00 lbs		0.00	0.00
CIRCAL 1000	25.00 kg		0.00	96.00
DEFOAM A	5.00 gal		0.00	12.00
SAPP	25.00 kg		0.00	35.00
CITRIC ACID	25.00 kg		0.00	80.00
SODA ASH- SOD.CARBONATE-Na2CO3	25.00 kg		0.00	10.00
GUAR GUM	25.00 kg		0.00	0.00
KWIKSEAL (F)	40.00 lbs		0.00	90.00
KLA STOP	55.00 gal		0.00	0.00
BARITE (bulk)	1.00 MT	4.00	1,122.44	153.00
FLOWZAN	25.00 kg	5.00	1,361.65	0.00
CIRCAL Y	25.00 kg		0.00	96.00
RADIA GREEN EME B	185.00 I		0.00	0.00
CALCIUM CHLORIDE 74-77%	25.00 kg		0.00	69.00
STAR GLIDE	208.00 I		0.00	0.00
SOLTEX	50.00 lbs		0.00	0.00
BENTONITE	1.00 MT		0.00	68.00
POLYPLUS	25.00 kg		0.00	58.00
KWIKSEAL (M)	40.00 lbs		0.00	90.00
KCL (1.0 MT)	1.00 MT		0.00	8.00
STAR GLIDE	55.00 gal		0.00	0.00
LIME	25.00 kg		0.00	0.00
SAFE-CIDE	25.00 I		0.00	10.00
CAUSTIC SODA - NaOH	25.00 kg		0.00	17.00
SODIUM BICARBONATE - NaHCO3	25.00 kg	1.00	17.86	40.00
KCL BRINE (1.15SG)	1.00 bbl		0.00	0.00
POLYSAI	25.00 kg		0.00	74.00
DRISPAC SL	50.00 lbs		0.00	79.00
OMYACARB 10	25.00 kg		0.00	0.00