

Daily Drilling Report

WELL NAME ELVER-1							DATE 26-12-2008		
API # OH		24 HRS PROG 0.00 (m)		TMD 1,741.70 (m)		TVD 1,741.43 (m)		REPT NO 9	
RIG NAME NO OCEAN PATRIOT		FIELD NAME ELVER		AUTH TMD	PLANNED DOW 36.40 (days)		DOL 8.79 (days)	DFS / KO 6.27 (days)	WATER DEPTH 504.90 (m)
SPUD DATE 21-12-2008	Rig Release		WELL SUPERVISOR IVAN PARKHURST / DAVID SYMINGTON			OIM DENNIS GORE		PBTMD	
REGION AUSTRALIA		DISTRICT OFFSHORE		STATE / PROV VICTORIA		RIG PHONE NO (08) 9338 5640		RIG FAX NO	
AFE # 09408EF5		AFE COSTS			DAILY COSTS			CUMULATIVE COSTS	
DESCRIPTION: Directional Exploration Well		DHC: 38,786,601			DHC: 997,860			DHC: 10,876,629	
		DCC:			DCC:			DCC:	
		CWC:			CWC:			CWC:	
		Others:			Others:			Others:	
		TOTAL: 38,786,601			TOTAL: 997,860			TOTAL: 10,876,629	
DEFAULT DATUM / ELEVATION WELL / 21.50 (m)			LAST SAFETY MEETING 26/12/2008		BLOCK VIC-P59		FORMATION INTRA-GOLDEN BEACH		BHA HRS OF SERVICE
LAST SURVEY				LAST CSG SHOE TEST (EMW)		LAST CASING		NEXT CASING	
MD	1,741.00 (m)	INC	51.90°	AZM	191.50°	1.32 (sg)	340.000 mm @ 1,735.9 m		244.000 mm @ 3,231.1 m
CURRENT OPERATIONS: Drilling 311mm hole at 1750m. Current ROP 33m/hr.									
24 HR SUMMARY: RIH DLT packer and successfully pressure tested 340mm (13-3/8"). Spotted cement plug and squeezed same to shoe. POH and L/O DLT packer. M/U PADPRT and L/O. M/U 311mm (12-1/4") BHA and RIH P/U 127mm (5") DP.									
24 HR FORECAST: Directionally drill 311mm (12-1/4") hole.									

OPERATION SUMMARY

From	To	HRS	Phase	Operation	PT/NPT	NPT CODES	ACTIVITY SUMMARY
0:00	3:00	3.00	S-CSG	TRIP	PN	CM	RIH DLT packer assembly from 675m to wash down and tag float collar at 1722m. Ave tripping speed 349m/hr.
3:00	4:00	1.00	S-CSG	PRESS	PN	CM	Lined up Dowell to kill line. Shut-in well on MP'S and attempted to pressure test casing to 17,238kPa (2500psi) High for 5 minutes- unsuccessful. Opened MPR's.
4:00	5:00	1.00	S-CSG	PRESS	PN	CM	POH from 1719m to 1699m and spaced out DLT packer mid casing joint (packer elements at 1602m). Set DLT packer with Dowell instructions. Lined up Dowell to kill line. Shut-in well on MPR's and pressure tested casing to 17,238kPa (2500psi) High for 5 minutes - OK. Opened MPR's.
5:00	6:30	1.50	S-CSG	CMT	PN	CM	RIH and spaced out cementing stinger at 1721m. Rigged up surface cementing lines and lined up to Dowell. Prepared to spot cement plug.
6:30	7:30	1.00	S-CSG	CMT	PN	CM	Rigged up and pressure tested surface lines to 20,685kPa (3000psi). Mixed and pumped 3.18m³ (20bbls) 1.9SG (15.8ppg) G cement slurry. Displaced same with 15.4m³ (97bbls) SW from Dowell unit and set balanced plug from 1721m to 1679m.
7:30	8:00	0.50	S-CSG	TRIP	PN	CM	Rigged down surface lines and POH 127mm (5") DP from 1721m to 1658m.
8:00	8:30	0.50	S-CSG	SQUEZ	PN	CM	Shut-in well on MPR's. Established injection and squeezed cement with 3.66m³ (23bbls) SW at 0.79m³/min (5bbbl/min) and 11,377kPa (1650psi) - TOC 1727m after squeeze.
8:30	9:00	0.50	S-CSG	CMT	PN	CM	Dropped wiper ball and circulated 15.4m³ (97bbls) to clear pipe
9:00	12:00	3.00	S-CSG	TRIP	PN	CM	POH with DLT packer assembly. Laid down same to pipe deck.
12:00	12:30	0.50	INT-DRL	RU_RD	PP		Picked up and made up Vetco PADPRT to single 127mm (5") DP and laid out same to pipe deck. Note: 244mm (9-5/8") casing hanger to be made up offline.
12:30	13:00	0.50	INT-DRL	RIGSER	PP		Conducted TDS service.
13:00	15:00	2.00	INT-DRL	MWD_LWD	PP		Latch on 405mm (16") BHA stand in derrick, lay down 2 each 405mm (16") string stabilizers, 2 each crossover subs, and sonic tool.
15:00	17:00	2.00	INT-DRL	MWD_LWD	PP		Picked up and made up RST/LWD string consisting of Exceed 900 RST, ARC9, Telescope MWD and SonicVision. Made up new 311mm (12-1/4") PDC bit and RIH assembly to 37m.
17:00	18:00	1.00	INT-DRL	TRIPBHA	PP		RIH 311mm (12-1/4") BHA from derrick to 369m.
18:00	23:30	5.50	INT-DRL	PU_LD	PP		RIH 311mm (12-1/4") BHA picking up 127mm (5") DP singles from pipe rack to 1377m. Ave running speed 183m/hr (19 joints/hr).
23:30	0:00	0.50	INT-DRL	TRIP	PP		RIH 127mm (5") DP from derrick from 1377m to 1436m. Function tested diverter and flushed overboard lines.

24.00 = Total Hours Today

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06:00 UPDATE

0000-0600 00:00 - 00:30hrs: Completed BOP function test on blue and yellow pods. Tested LPR's, UPR's and lower annular - OK. Completed function testing side outlet valves offline.
 00:30 - 01:30hrs: RIH 127mm (5") DP from derrick from 1436m to tag float collar at 1722m. Ave tripping speed 286m/hr. Note: Washed down to tag float collar.
 01:30 - 03:30hrs: Drilled out wiper plugs and float collar to 1723m. Commenced displacing well to 1.15SG (9.6ppg) KCL/Polymer WBM
 03:30 - 04:00hrs: Drilled out cement in shoe track and float shoe at 1735.9m. Cleaned out rat hole to 1741m. Worked pipe through shoe track 3 times to confirm clear.
 04:00 - 04:30hrs: DOWNTIME: Troubleshot persistent snagging problems with geograph wire on TDS dolly track while attempting to drill 311mm (12-1/4") hole - unsuccessful. Geograph unit unable to hold sufficient tension on wire. Removed sheave at drill floor and wire from TDS while circulating well. Slowly rotated pipe at 5rpm to confirm free (restricted rpm due to manriding in derrick). Continued without geograph.
 04:30 - 06:00hrs: Directionally drilled 311mm (12-1/4") hole with controlled parameters from 1741m to 1750m with BHA inside casing. Ave ROP 9m/hr. Lined up to boost riser once WBM at HPWHH. Slowed pump rate when interface returned to rig and decreased WOB to 4.5MT (10kibs) to mitigate bit balling. Recorded SCR's and CLF. Note: Hard stringer encountered from 1743m to 1746m with ROP < 5m/hr.

HSE: No accidents, incidents or pollution reported.
 Total Stop cards - 56 (17 unsafe, 39 safe). JSA - 34, PTW - 9.

BIT DATA

BIT / RUN	SIZE (mm)	MANUFACTURER	TYPE	SERIAL NO	JETS OR TFA	DEPTH IN / DATE IN	I-O-D-L-B-G-O-R
3 / 1	311.0	SMITH	MDI619LBPX	JY4165	6x15	1,741.70 / 26-12-2008	-----

LCM: 0	MUD PROPERTIES						MUD TYPE: KCL/POLYMER
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VIS (s/l)	PV/YP (cp) / (Pa)	GELS (Pa)	WL/HTHP (ml/30 min)	FC/T.SOL (mm) / (%)	OIL/WAT (%)	% SAND/MBT (%) / (sg)	pH/Pm (mL)	Pf/Mf (mL)	Cl (ppm)	Ca (ppm)	H2S (%)	KCL (ppm)	LGS (%)
73	14/32	10/12	6/0	2/8	0/0	0	11.20/0.00	1.80/4.20	61,000	120	0	0	1

Density (sg)	1.15	ECD (sg)	0.00	PP	DAILY COST	5637	CUM COST	160,964	%OIL	0
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BHA	3	JAR S/N	14161088	BHA / HOLE CONDITIONS				JAR HRS	BIT	3
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BHA WT BELOW JARS (tonne)	STRING WT UP (tonne)	STRING WT DN (tonne)	STRING WT ROT (tonne)	TORQUE/UNITS (kN-m)	BHA LENGTH (m)
					369.92 (m)

ITEM DESCRIPTION	NO JTS	LENGTH	O.D	I.D	CONN SIZE	CONN TYPE
Heavy Weight Drill Pipe	17	158.53	127.00	79.38		
Hydraulic Jar	1	9.82	158.75	69.85		
Heavy Weight Drill Pipe	6	56.10	127.00	79.38		
Cross Over	1	0.99	200.02	73.02		
Drill Collar	12	111.00	209.50	69.85		
Integral Blade Stabilizer	1	1.85	393.70	76.20		
Logging While Drilling	1	8.24	279.40	92.08		
Logging While Drilling	1	8.58	241.30	82.55		
Logging While Drilling	1	5.82	241.30	76.20		
Steering Tool	1	8.67	311.00	76.20		7 5/8 REG
Polycrystalline Diamond Bit	1	0.32	311.00	76.20		

CASING

S/T	DESCRIPTION	SIZE	WEIGHT	GRADE	SETTING DEPTH
OH	SURFACE	340.00	178.58	X 56	1,735.93
OH	CONDUCTOR	762.00			573.00

MUD PUMPS/HYDRAULICS

SPR

	STROKE	SPM	LINER	FLOW	SPR	SPM	PPSR
# 1	304.80						
# 2	304.80	70	152.40	1144			
# 3	304.80						

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PERSONNEL DATA

COMPANY	QTY	HRS	COMPANY	QTY	HRS
WEST ENGINEERING	1		ANADRILL	5	
BHI	6		KEMTECH	2	
DODI	54		DOWELL	2	
VETCO	1		SUBSEA 7	3	
BJ TRS	1		BRANDT	1	
APACHE	5				

TOTAL PERSONNEL ON BOARD: 81

SUPPORT CRAFT

TYPE	REMARKS
HELICOPTER	JYN (Pax On - 4, Pax Off - 7).
FAR SKY	Geelong.
SWISSCO 168	On Location.
YARABAH	On Location.
FAR GRIP	Enroute to Rig.

MATERIALS/CONSUMPTION

ITEM	UNITS	USAGE	ON HAND	ITEM	UNITS	USAGE	ON HAND
BARITE BULK	MT	7	45	BENTONITE	MT		26
CEMENT	MT	6	33	DIESEL	m3	11	314
WATER, POTABLE	m3	27	351	WATER, DRILLING	m3	24	505

WEATHER

TIME	SWELL HT/DIR/PER	WAVE HT/DIR/PER	WIND SPEED/DIR	GUST SPEED/DIR	TEMP
00:00	/ /50.00/3	0.80/70.00/12	/	5.1/50.00	

DECKLOG

MAX VDL	ACT VDL	AVG VDL	LEG PEN (BOW)	LEG PEN (PORT)	LEG PEN (S BOARD)
2560	1921	1921			

SAFETY DRILLS

RAMS (kPa)	ANNULARS (kPa)	CASING	LAST BOP DRILL	NEXT BOP PRESS TEST	FIRE DRILL	H2S DRILL	MAN OVERBRD	ABND. DRILL
21-12-2008 / 34,475	21-12-2008 / 34,475		22-12-2008	05-01-2009	21-12-2008			21-12-2008

INCIDENT REPORT

INCIDENTS TYPE NONE LOST TIME? NO INCIDENTS DESCRIPTION

ANCHOR TENSION DATA

ANCHOR NO	CURRENT TENSION	ANCHOR NO	CURRENT TENSION	ANCHOR NO	CURRENT TENSION
1	192	2	186	3	202
4	184	5	184	6	161
7	208	8	192	9	
10		11		12	

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MUD INVENTORY

ITEM	UNIT	USAGE	Day Cost (\$)	ON HAND
SAPP	25.00 kg		0.00	40.00
GUAR GUM	25.00 kg		0.00	0.00
OMYACARB 10	25.00 kg		0.00	0.00
CALCIUM CHLORIDE 74-77%	25.00 kg		0.00	69.00
CIRCAL 1000	25.00 kg		0.00	96.00
LIME	25.00 kg		0.00	0.00
DRISPAC SL	50.00 lbs	10.00	1,221.90	100.00
BARITE (bulk)	1.00 MT	7.00	1,964.27	45.00
KWIKSEAL (F)	40.00 lbs		0.00	36.00
CIRCAL 60/16	25.00 kg		0.00	196.00
POLYSAI	25.00 kg		0.00	74.00
SAFE-CIDE	25.00 l		0.00	5.00
SOLTEX	50.00 lbs		0.00	239.00
CIRCAL Y	25.00 kg		0.00	96.00
CITRIC ACID	25.00 kg		0.00	116.00
FLOWZAN	25.00 kg	9.00	2,450.97	168.00
SODIUM BICARBONATE - NaHCO3	25.00 kg		0.00	62.00
POLYPLUS	25.00 kg		0.00	24.00
SODA ASH- SOD.CARBONATE-Na2CO3	25.00 kg		0.00	12.00
KCL BRINE (1.15SG)	1.00 bbl		0.00	0.00
KWIKSEAL (M)	40.00 lbs		0.00	72.00
NUT PLUG	50.00 lbs		0.00	28.00
BENTONITE	1.00 MT		0.00	24.00
CAUSTIC SODA - NaOH	25.00 kg		0.00	17.00
DEFOAM A	5.00 gal		0.00	18.00