

Daily Drilling Report

WELL NAME ELVER-1							DATE 11-01-2009		
API # OH		24 HRS PROG 174.00 (m)		TMD 5,270.00 (m)		TVD 3,947.00 (m)		REPT NO 25	
RIG NAME NO OCEAN PATRIOT		FIELD NAME ELVER		AUTH TMD	PLANNED DOW 36.40 (days)		DOL 24.79 (days)	DFS / KO 22.27 (days)	WATER DEPTH 504.90 (m)
SPUD DATE 21-12-2008	Rig Release		WELL SUPERVISOR PAT BROWN / KERRY PARKER			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: 1,025,794		DHC: 29,890,585		
		DCC:			DCC:		DCC:		
		CWC:			CWC:		CWC:		
		Others:			Others:		Others:		
		TOTAL: 38,786,601			TOTAL: 1,025,794		TOTAL: 29,890,585		
DEFAULT DATUM / ELEVATION WELL / 21.50 (m)			LAST SAFETY MEETING 11/01/2009		BLOCK VIC-P59		FORMATION INTRA-GOLDEN BEACH		BHA HRS OF SERVICE 169.50
LAST SURVEY				LAST CSG SHOE TEST (EMW)		LAST CASING		NEXT CASING	
MD	5,230.64 (m)	INC	30.04°	AZM	193.13°	1.60 (sg)	244.000 mm @ 3,243.9 m		

CURRENT OPERATIONS: POH at 1200m

24 HR SUMMARY: Directionally drilled 216mm (8-1/2") hole from 5096m to 5180m, Circ, backreamed to 4846m, Circ, RIH to 5180m, Drilled to well TD of 5270m, Circ, POH to 244mm (9 5/8") casing shoe.

24 HR FORECAST: Cut and slip drilling line, POH, L/D directional BHA, make up cementing assembly, RIH to 3750m and commence 3 stage plug back operations as per programme.

OPERATION SUMMARY

From	To	HRS	Phase	Operation	PT/NPT	NPT CODES	ACTIVITY SUMMARY
0:00	2:30	2.50	P-DRL	DRLG	PP		Directionally drilled 216mm (8-1/2") hole from 5096m to 5148m. Ave ROP 20.8 m/hr. Drilling Parameters: WOB: 2.3 - 18.1 MT (5 - 40klbs). RPM: 130-140. TQ (ON): 32.5 - 47.6 kNm (22 - 35kft.lbs). TQ (OFF): 28.5 - 47.6 kNm (21 - 35kft.lbs). FLOW: 2.31 - 2.46 m³/min (610 - 650gpm). SPP: 30,338 kPa (4400psi) String Weights: UP: 204MT (450klbs). DOWN: 145MT (320klbs). ROTATING: 167 MT (370klbs). Boosted riser with 1.29 m³/min (342 gpm) while drilling. Pumped through choke and kill lines.
2:30	6:00	3.50	P-DRL	DRLG	PP		Directionally drilled 216mm (8-1/2") hole from 5148m to 5180m with repeated rotary stalling at 47.6 kNm (35 kft/lbs) Ave ROP 9.14 m/hr. Attempted various parameters to drill, added 0.3% starglide to active mud system (5 drums) at 5148m, no reduction in torque observed. Decision made to backream OOH.
6:00	6:30	0.50	P-DRL	CIRC	PP		Circulated while downlinking Schlumberger xceed tool to neutral position. Removed geograph line.
6:30	9:30	3.00	P-DRL	RMWASH	PP		Backreamed from 5180m to 4846m while boosting riser with mud pump. Added 0.25% (4 drums) to active system at 07:00 hrs to minimise torque. Note: 45 mins spent rotating and reciprocating through tight area due to torque from 5165m-5135m.
9:30	11:30	2.00	P-DRL	CIRC	PP		Pumped 6.35 m³ (40bbls) pill and circulated hole clean while rotating and reciprocating drillstring. No noticeable change in cuttings on bottoms up. Note: Attempted to rotate TDS in Hii gear with no success, changed back to Lo gear.
11:30	12:00	0.50	P-DRL	TRIP	PP		RIH from 4846m to 5165m with no problems.
12:00	12:30	0.50	P-DRL	RMWASH	PP		Washed and reamed from 5165m to 5180m. No fill on bottom.
12:30	17:30	5.00	P-DRL	DRLG	PP		Directionally drilled 216mm (8-1/2") hole from 5180m to 5270m (Section TD) Ave ROP 18.0 m/hr with maximum torque of 49 kNm (36 kft/lbs) causing repeated rotary stalling. Drilling Parameters: WOB: 2.3 - 18.1 MT (5 - 40klbs). RPM: 130-140. TQ (ON): 32.5 - 47.6 kNm (22 - 35kft.lbs). TQ (OFF): 28.5 - 47.6 kNm (21 - 35kft.lbs). FLOW: 2.31 - 2.46³/min (610 - 650gpm). SPP: 30,338 kPa (4400psi) String Weights: UP: 204MT (450klbs). DOWN: 145MT (320klbs). ROTATING: 167 MT (370klbs). Boosted riser with 1.29 ³/min (342 gpm) while drilling.

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OPERATION SUMMARY

From	To	HRS	Phase	Operation	PT/NPT	NPT CODES	ACTIVITY SUMMARY
							Note: Pumped 1.11sg (9.5ppg) Hi Vis with 5% starglide sweep at 5228m. Continued to add starglide to active system while drilling to minimise torque. No notable chages in cuttings at shakers on bottoms up.
17:30	19:00	1.50	P-DRL	CIRC	PP		Circulated hole clean with 2.5 m³/min (662gpm), SPP: 30,338 kPa (4400psi) while boosting riser. Rotated and reciprocated drillstring..No noticable change in cuttings on bottoms up.
19:00	21:00	2.00	P-DRL	TRIP	PP		Flow checked well, POH from 5270m to 4815m. Hole good.
21:00	0:00	3.00	P-DRL	TRIP	PP		Pumped 4.76m3 (30bbls) of 1.39 sg (11.6ppg) slug, Continued to POH from 4815m to 3228m, (inside 244mm (9 5/8") casing shoe). Note: 22.6 MT (50 kbs) overpull at 4427m, worked once through tight area. (OK)

24.00 = Total Hours Today

06:00 UPDATE

0000-0600 00:00-02:30 Cut and slipped 39m of drilling line.
02:30-03:00 Serviced TDS and travelling equipment.
03:00-06:00 POH from 3228m to 1200m.
HSE: No accidents, incidents or pollution reported.
Total Stop cards - 52 (11 unsafe, 41 safe). JSA - 37, PTW - 10

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
5 / 1	216.0	HUGHES CHRISTENSEN	HC506ZX	7213298	2x14, 4x16	4,433.00 / 07-01-2009	-----

BIT OPERATIONS

BIT / RUN	WOB	RPM	FLOW	PRESS	P BIT	HRS	24 Hr PROG	24 HR ROP	CUM HRS	CUM PROG	CUM ROP
5/1	18/18	130/130	2,460.00	30,338	2182	11.00	174.00	15.8	76.00	837.00	11.0

LCM: 0 **MUD PROPERTIES** MUD TYPE: KCL/POLYMER

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 (%)
62	22/23	7/10	4/0	1/9	0/0	0/7	10.00/0.00	1.30/2.60	55,000	140	0	0	5

Density (sg) 1.15 ECD (sg) 0.00 PP DAILY COST 45,255 CUM COST 767,292 %OIL 5

BHA 6 JAR S/N 17605011 **BHA / HOLE CONDITIONS** JAR HRS 169.50 BIT 5

BHA WT BELOW JARS	STRING WT UP	STRING WT DN	STRING WT ROT	TORQUE/UNITS	BHA LENGTH
14 (tonne)	240 (tonne)	145 (tonne)	167 (tonne)	48 (kN-m)	346.67 (m)

ITEM DESCRIPTION	NO JTS	LENGTH	O.D	I.D	CONN SIZE	CONN TYPE
Heavy Weight Drill Pipe	26	242.35	127.00	79.38		
Hydraulic Jar	1	9.92	165.10	69.85		
Heavy Weight Drill Pipe	3	28.16	127.00	79.38		
Drill Collar	3	28.22	171.45	69.85		
Integral Blade Stabilizer	1	1.78	212.73	76.20		
Logging While Drilling	1	8.14	190.50	92.08		
Logging While Drilling	1	3.58	212.85	82.55		
Logging While Drilling	1	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
Polycrystalline Diamond Bit	1	0.34	216.00	76.20		

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SURVEY

TYPE	MD (m)	DEG (°)	AZI (°)	TVD (m)	+N/-S (m)	+E/-W (m)	V.SECT (m)	D.L (°/30m)
NORMAL	5,081.16	31.00	195.69	3,784.43	-2,991.22	-595.48	3,049.91	0.30
NORMAL	5,110.73	30.75	192.62	3,809.81	-3,005.93	-599.19	3,065.05	1.62
NORMAL	5,145.89	30.90	192.90	3,840.00	-3,023.50	-603.17	3,083.06	0.18
NORMAL	5,168.59	30.88	189.66	3,859.49	-3,034.93	-605.45	3,094.71	2.20
NORMAL	5,198.97	30.65	190.00	3,885.59	-3,050.24	-608.10	3,110.25	0.28
NORMAL	5,230.64	30.04	193.13	3,912.92	-3,065.91	-611.30	3,126.24	1.61

CASING

S/T	DESCRIPTION	SIZE	WEIGHT	GRADE	SETTING DEPTH
OH	SURFACE	340.00	178.58	X 56	1,735.93
OH	CONDUCTOR	762.00		X 56	573.00
OH	INTERMEDIATE 1	244.00	69.94	L-80	3,243.90

MUD PUMPS/HYDRAULICS

SPR

	STROKE	SPM	LINER	FLOW	SPP: 30,338 (kPa)		SPM	PPSR
# 1	304.80	75	152.40	1213	HP: 0.244 (kW/cm ²)			
# 2	304.80	80	152.40	1294				
# 3	304.80	75	152.40	1213				

PERSONNEL DATA

COMPANY	QTY	HRS	COMPANY	QTY	HRS
KEMTECH	2		BHI	6	
APACHE	5		BJ TRS	1	
DOWELL	2		SUBSEA 7	3	
DODI	53		Shell	3	
BAKER ATLAS	7		Catering	8	
WEST ENGINEERING	1		ANADRILL	5	
BRANDT	1				

TOTAL PERSONNEL ON BOARD: 97

SUPPORT CRAFT

TYPE	REMARKS
FAR SKY	En route to Loc
SWISSCO 168	On Loc
S-76	No choppers today
YARABAH	On Loc
FAR GRIP	En route to Geelong

MATERIALS/CONSUMPTION

ITEM	UNITS	USAGE	ON HAND	ITEM	UNITS	USAGE	ON HAND
BARITE BULK	MT		97	BENTONITE	MT		26
CEMENT	MT		74	DIESEL	m3		568
WATER, POTABLE	m3	23	378	WATER, DRILLING	m3	77	505

WEATHER

TIME	SWELL HT/DIR/PER	WAVE HT/DIR/PER	WIND SPEED/DIR	GUST SPEED/DIR	TEMP
00:00	/ /260.00/3	1.00/230.00/9	/	5.1/260.00	

DECKLOG

MAX VDL	ACT VDL	AVG VDL	LEG PEN (BOW)	LEG PEN (PORT)	LEG PEN (S BOARD)
2560	1884	1884			

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SAFETY DRILLS

RAMS (kPa)	ANNULARS (kPa)	CASING	LAST BOP DRILL	NEXT BOP PRESS TEST	FIRE DRILL	H2S DRILL	MAN OVERBRD	ABND. DRILL
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. Weekly Fire & Abandon and safety meetings conducted.
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ANCHOR TENSION DATA

ANCHOR NO	CURRENT TENSION	ANCHOR NO	CURRENT TENSION	ANCHOR NO	CURRENT TENSION
1	180	2	164	3	185
4	170	5	179	6	185
7	200	8	195	9	
10		11		12	

MUD INVENTORY

ITEM	UNIT	USAGE	Day Cost (\$)	ON HAND
KCL (1.0 MT)	1.00 MT		0.00	8.00
BARITE (bulk)	1.00 MT		0.00	97.00
STAR GLIDE	208.00 l	17.00	28,027.22	8.00
GUAR GUM	25.00 kg		0.00	0.00
RADIA GREEN EME B	185.00 l		0.00	0.00
POLYSAI	25.00 kg		0.00	74.00
SOLTEX	50.00 lbs	25.00	2,216.75	135.00
CIRCAL 60/16	25.00 kg	42.00	742.98	42.00
CALCIUM CHLORIDE 74-77%	25.00 kg		0.00	69.00
BENTONITE	1.00 MT		0.00	24.00
SODIUM BICARBONATE - NaHCO3	25.00 kg		0.00	41.00
CIRCAL 1000	25.00 kg		0.00	96.00
STAR GLIDE	55.00 gal		0.00	0.00
DRISPAC SL	50.00 lbs	41.00	5,009.79	79.00
DEFOAM A	5.00 gal		0.00	12.00
CAUSTIC SODA - NaOH	25.00 kg		0.00	17.00
CIRCAL Y	25.00 kg		0.00	96.00
KCL BRINE (1.15SG)	1.00 bbl		0.00	0.00
KWIKSEAL (M)	40.00 lbs		0.00	108.00
KLA STOP	55.00 gal		0.00	16.00
SAFE-CIDE	25.00 l	1.00	100.69	10.00
SAPP	25.00 kg		0.00	35.00
FLOWZAN	25.00 kg	33.00	8,986.89	101.00
POLYPLUS	25.00 kg	2.00	170.48	58.00
OMYACARB 10	25.00 kg		0.00	0.00
CITRIC ACID	25.00 kg		0.00	80.00
SODA ASH- SOD.CARBONATE-Na2CO3	25.00 kg		0.00	10.00
NUT PLUG	50.00 lbs		0.00	14.00
LIME	25.00 kg		0.00	0.00
KWIKSEAL (F)	40.00 lbs		0.00	72.00