

Daily Drilling Report

WELL NAME ELVER-1							DATE 23-12-2008	
API # OH		24 HRS PROG 0.00 (m)		TMD 1,741.70 (m)		TVD 1,485.01 (m)		REPT NO 6
RIG NAME NO OCEAN PATRIOT		FIELD NAME ELVER		AUTH TMD	PLANNED DOW 36.40 (days)	DOL 5.79 (days)	DFS / KO 3.27 (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: 1,642,272		DHC: 7,896,719		
		DCC:		DCC:		DCC:		
		CWC:		CWC:		CWC:		
		Others:		Others:		Others:		
		TOTAL: 38,786,601		TOTAL: 1,642,272		TOTAL: 7,896,719		
DEFAULT DATUM / ELEVATION WELL / 21.50 (m)			LAST SAFETY MEETING 23/12/2008	BLOCK VIC-P59		FORMATION		BHA HRS OF SERVICE 47.00
LAST SURVEY				LAST CSG SHOE TEST (EMW)		LAST CASING		NEXT CASING
MD	1,741.00 (m)	INC	51.90°	AZM	191.50°	(sg)	762.000 mm @ 573.0 m	339.720 mm @ 1,735.9 m

CURRENT OPERATIONS: Commencing cement displacement with rig pumps.

24 HR SUMMARY: Conducted wiper trip. Displaced well and POH - hole condition good. Racked back BHA in derrick and downloaded MWD. L/O PDM and bit. R/U 340mm (13-3/8") casing handling equipment. RIH 340mm (13-3/8") casing. R/D hydraulic elevators.

24 HR FORECAST: Cement 340mm (13-3/8") casing. Release CART and POH landing string. Run BOP and marine riser.

OPERATION SUMMARY

From	To	HRS	Phase	Operation	PT/NPT	NPT CODES	ACTIVITY SUMMARY
0:00	4:00	4.00	S-DRL	BREAM	PP		Backreamed from 1712m to 1184m at 120rpm with 3.56m³/min (940gpm) and 21,236kPa (3080psi). Pumped 7.95m³ (50bbls) hi-vis PHG sweep each stand in tangent section from 1712m to 1184m. Ave reaming speed 132m/hr. Erratic torque observed from 1597m to 1453m fluctuating from 18.9kN.m (14kft.lbs) 25.8kN.m (19kft.lbs). No drag or overpull noted, no pump pressure increase or indications of pack off - hole condition good.
4:00	5:00	1.00	S-DRL	TRIP	PP		POH on elevators from 1184m (42° inc) to 508mm (20") float shoe at 573m. No overpull - hole condition good.
5:00	5:30	0.50	S-DRL	RIGSER	PN	MP	Load tested Mud Pump #3 power end following replacement of motor - both motors operational separately but unable to equalise load-sharing settings. Work on Mud Pump #3 continued and remains out of service.
5:30	7:30	2.00	S-DRL	TRIP	PP		RIH w/ 127mm (5") DP on elevators from 573m to 1741.7m. Hole condition good with no drag encountered. Monitored drill string at PGB with ROV while RIH. Avg tripping speed 584m/hr.
7:30	9:00	1.50	S-DRL	CIRC	PP		Pumped 23.9m³ (150bbl) guar gum sweep followed by 238.5m³ (1500bbl) 1.15SG (9.6ppg) WBM.
9:00	12:00	3.00	S-DRL	TRIP	PP		POH w/ 127mm (5") DP on elevators from 1741.7m to BHA at 377m. Hole condition good with no overpull.
12:00	13:30	1.50	S-DRL	TRIPBHA	PP		POH 127mm (5") HWDP and 210mm (8-1/4") DC's from 377m to 40m and racked back in derrick.
13:30	14:30	1.00	S-DRL	TRIPBHA	PP		POH MWD/LWD tools from 40m. Plugged into and downloaded same. Racked back tool string in derrick. Laid out PDM and 406mm (16") PDC bit to pipe deck.
14:30	16:30	2.00	S-CSG	RU_RD	PP		Held JSA. Rigged up 340mm (13-3/8") casing handling equipment.
16:30	17:00	0.50	S-CSG	CSG	PP		Picked up and RIH 340mm (13-3/8") shoe track to 38m. Bakerlocked all connections. Flow checked same - OK. Installed guide ropes in moonpool 4m above float shoe.
17:00	23:30	6.50	S-CSG	CSG	PP		RIH 340mm (13-3/8") casing from 38m to 1201m. Ave running speed 14.1 joints/hr. Stabbed into LPWHH with ROV assistance. Continued monitoring casing RIH with ROV.
23:30	0:00	0.50	S-CSG	RU_RD	PP		Rigged down 340mm (13-3/8") hydraulic casing elevators. Rigged up 127mm (5") DP manual elevators. Picked up and made up HPWHH joint.

24.00 = Total Hours Today

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06:00 UPDATE

0000-0600 00:00 - 01:00hrs: Rigged down 340mm (13-3/8") FMS. Cleared remaining 340mm (13-3/8") handling equipment from drill floor. Rigged up 127mm (5") hydraulic elevators and picked up 127mm (5") DP single and 3m pup joint for landing string space out.
 01:00 - 02:30hrs: RIH 340mm (13-3/8") casing string on 127mm (5") DP landing string from 1201m to 1721m. Ave running speed 347m/hr. Drifted all landing string tubulars prior to RIH with 67mm (2-5/8") rabbit.
 02:30 - 03:00hrs: Picked up cement head stand from derrick. Made up TDS and washed down from 1721m to soft land HPWHH in LPWHH - 340mm (13-3/8") casing shoe at 1735.9m. Confirmed land with ROV. Commenced circulating 110% casing volume.
 03:00 - 03:30hrs: Set down casing string weight to confirm land - OK. Conducted 22.7MT (50klbs) overpull test under Vetco instructions to confirm latched - OK. Checked bullseye readings with ROV after landing casing: Port Bullseye - 0.5° Aft, Fwd Bullseye - 0.75° Aft.
 03:30 - 04:00hrs: Completed circulating 110% casing volume at 2.30m³/min (610gpm) and 2,896kPa (420psi). Held JSA for cement job while circulating.
 04:00 - 06:00hrs: Rigged up surface lines and lined up to Dowell. Pumped 0.80m³ (5bbls) seawater and pressure tested surface lines to 27,580kPa (4000psi) for 5 minutes - OK. Weatherford dropped bottom dart. Pumped 5.57m³ (35bbls) seawater fluorescene spacer - no clear indication of bottom plug shearing. Mixed and pumped 56.45m³ (355bbls) 1.5SG (12.5ppg) G cement lead slurry. Mixed and pumped 12.72m³ (80bbls) 1.9SG (15.8ppg) G cement tail slurry. Weatherford dropped top dart. Good returns noted with ROV throughout job.

HSE: No accidents, incidents or pollution reported.
 Total Stop cards - 73 (15 unsafe, 58 safe). JSA - 31, PTW - 7.

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
2 / 1	406.0	SMITH	MDI619HPX	SCE471		573.00 / 21-12-2008	1-3-CT-T-X-I-WT-TD

BIT OPERATIONS

BIT / RUN	WOB	RPM	FLOW	PRESS	P BIT	HRS	24 Hr PROG	24 HR ROP	CUM HRS	CUM PROG	CUM ROP
2/1		120/120	3,141.90	17,927	0				29.74	1,079.49	36.3

MOTOR OUTPUT

RPG:	ROTARY CURRENT: 120	TOTAL RPM: 203
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LCM: 0	MUD PROPERTIES	MUD TYPE: FRESHWATER GEL
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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 (%)
70	21/39	21/23	0/0	0/0	0/0	0	9.50/0.00			0	0	0	0

Density (sg)	1.05	ECD (sg)	0.00	PP	DAILY COST	7982	CUM COST	36,218	%OIL	0
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BHA	2	JAR S/N	14161088	BHA / HOLE CONDITIONS	JAR HRS	47.00	BIT	2
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BHA WT BELOW JARS	STRING WT UP	STRING WT DN	STRING WT ROT	TORQUE/UNITS	BHA LENGTH
29 (tonne)	143 (tonne)	115 (tonne)	118 (tonne)	(kN-m)	377.43 (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		
Cross Over	1	1.16	209.50	76.20		
Integral Blade Stabilizer	1	2.68	393.70	76.20		
Logging While Drilling	1	7.97	279.40	92.08		
Logging While Drilling	1	8.58	241.30	82.55		
Logging While Drilling	1	6.28	241.30	76.20		
Integral Blade Stabilizer	1	2.70	374.65	76.20		7 5/8 REG
Positive Displacement Motor	1	11.24	406.00	76.20		7 5/8 REG
Polycrystalline Diamond Bit	1	0.38	406.00			

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CASING

S/T	DESCRIPTION	SIZE	WEIGHT	GRADE	SETTING DEPTH
OH	CONDUCTOR	762.00			573.00

MUD PUMPS/HYDRAULICS

SPR

	STROKE	SPM	LINER	FLOW	SPP: 17,927 (kPa)		SPM	PPSR
# 1	304.80	98	152.40	1602				
# 2	304.80	97	152.40	1586				
# 3	304.80							
					HP: 0.000 (kW/cm ²)			

PERSONNEL DATA

COMPANY	QTY	HRS	COMPANY	QTY	HRS
WEST ENGINEERING	1		DOWELL	2	
ANADRILL	5		DODI	57	
SUBSEA 7	6		BHI	4	
BJ TRS	4		WEATHERFORD	1	
VETCO	1		KEMTECH	2	
APACHE	4				

TOTAL PERSONNEL ON BOARD: 87

SUPPORT CRAFT

TYPE	REMARKS
FAR SKY	On Location.
SWISSCO 168	On Location.
YARABAH	On Location.
HELICOPTER	JYN (Pax On - 3, Pax Off - 3).
FAR GRIP	Enroute to Geelong.

MATERIALS/CONSUMPTION

ITEM	UNITS	USAGE	ON HAND	ITEM	UNITS	USAGE	ON HAND
BARITE BULK	MT		84	BENTONITE	MT		26
CEMENT	MT		88	DIESEL	m3		352
WATER, POTABLE	m3	19	326	WATER, DRILLING	m3	268	342

WEATHER

TIME	SWELL HT/DIR/PER	WAVE HT/DIR/PER	WIND SPEED/DIR	GUST SPEED/DIR	TEMP
00:00	/ /220.00/3	3.00/70.00/12	/	16.0/220.00	

DECKLOG

MAX VDL	ACT VDL	AVG VDL	LEG PEN (BOW)	LEG PEN (PORT)	LEG PEN (S BOARD)
2560	2116	2116			

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	21-12-2008				21-12-2008			21-12-2008

INCIDENT REPORT

INCIDENTS TYPE NONE LOST TIME? NO INCIDENTS DESCRIPTION

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ANCHOR TENSION DATA

ANCHOR NO	CURRENT TENSION	ANCHOR NO	CURRENT TENSION	ANCHOR NO	CURRENT TENSION
1	189	2	185	3	207
4	179	5	162	6	185
7	207	8	192	9	
10		11		12	

MUD INVENTORY

ITEM	UNIT	USAGE	Day Cost (\$)	ON HAND
DEFOAM A	5.00 gal		0.00	18.00
SAPP	25.00 kg		0.00	40.00
CAUSTIC SODA - NaOH	25.00 kg		0.00	17.00
NUT PLUG	50.00 lbs		0.00	28.00
OMYACARB 10	25.00 kg		0.00	0.00
DRISPAC SL	50.00 lbs		0.00	40.00
GUAR GUM	25.00 kg	11.00	914.10	15.00
BENTONITE	1.00 MT	8.00	2,938.24	24.00
KWIKSEAL (M)	40.00 lbs		0.00	72.00
CIRCAL 1000	25.00 kg		0.00	96.00
BARITE (bulk)	1.00 MT		0.00	83.00
FLOWZAN	25.00 kg	15.00	4,084.95	148.00
KWIKSEAL (F)	40.00 lbs		0.00	36.00
CIRCAL Y	25.00 kg		0.00	96.00
KCL BRINE (1.15SG)	1.00 bbl		0.00	0.00
CIRCAL 60/16	25.00 kg		0.00	100.00
POLYPLUS	25.00 kg		0.00	24.00
POLYSAI	25.00 kg		0.00	74.00
LIME	25.00 kg		0.00	37.00
SODA ASH- SOD.CARBONATE-Na2CO3	25.00 kg		0.00	12.00
CITRIC ACID	25.00 kg	1.00	44.25	117.00
SAFE-CIDE	25.00 l		0.00	5.00
CALCIUM CHLORIDE 74-77%	25.00 kg		0.00	69.00
SOLTEX	50.00 lbs		0.00	159.00
SODIUM BICARBONATE - NaHCO3	25.00 kg		0.00	62.00