

Daily Drilling Report

WELL NAME ELVER-1				DATE 02-01-2009	
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API # OH	24 HRS PROG 4.10 (m)	TMD 3,253.00 (m)	TVD 2,500.70 (m)	REPT NO 16	
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RIG NAME NO OCEAN PATRIOT	FIELD NAME ELVER	AUTH TMD	PLANNED DOW 36.40 (days)	DOL 15.79 (days)	DFS / KO 13.27 (days)	WATER DEPTH 504.90 (m)
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SPUD DATE 21-12-2008	Rig Release	WELL SUPERVISOR PAT BROWN / DAVID SYMINGTON	OIM DENNIS GORE		PBTMD
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REGION AUSTRALIA	DISTRICT OFFSHORE	STATE / PROV VICTORIA	RIG PHONE NO (08) 9338 5640	RIG FAX NO
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AFE # 09408EF5	AFE COSTS	DAILY COSTS	CUMULATIVE COSTS
DESCRIPTION: Directional Exploration Well	DHC: 38,786,601 DCC: CWC: Others: TOTAL: 38,786,601	DHC: 941,197 DCC: CWC: Others: TOTAL: 941,197	DHC: 18,491,943 DCC: CWC: Others: TOTAL: 18,491,943

DEFAULT DATUM / ELEVATION WELL / 21.50 (m)	LAST SAFETY MEETING 2/01/2009	BLOCK VIC-P59	FORMATION	BHA HRS OF SERVICE 4.60
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LAST SURVEY		LAST CSG SHOE TEST (EMW)	LAST CASING	NEXT CASING
MD 3,248.91 (m)	INC 47.50°	AZM 192.00°	1.60 (sg)	244.000 mm @ 3,243.9 m

CURRENT OPERATIONS: Drilling 216mm (8-1/2") hole at 3256m.

24 HR SUMMARY: RIH, drilled out shoe track and conducted FIT. Troubleshot Telescope MWD tool failure - unsuccessful. POH and changed out Telescope MWD, SonicVision and GVR6. RIH to 577m. Troubleshot compensator lock-bar failure. Continue RIH to 1787m.

24 HR FORECAST: RIH and directionally drill 216mm (8-1/2") hole.

OPERATION SUMMARY

From	To	HRS	Phase	Operation	PT/NPT	NPT CODES	ACTIVITY SUMMARY
0:00	0:30	0.50	P-DRL	DRLCMT	PP		Continued to drill out float collar. Note: Lost communication with Telescope MWD - no pulse observed at surface.
0:30	2:00	1.50	P-DRL	DRLCMT	PP		Drilled out cement in shoe track and float shoe. Cleaned out rat hole to 3249m and drilled 3m new formation to 3252m. Reamed through shoe track 3 times to confirm clear. Torque and drag through shoe track good, but 2,758kPa (400psi) pressure fluctuations observed while reaming.
2:00	2:30	0.50	P-DRL	CIRC	PP		Continued to circulate at 2.99m³/min (790gpm) and 27,925kPa (4050psi) until pressure stabilised. Recorded string weights: 127MT (280klbs) Up, 83.9MT (185klbs) Down, 99.8MT (220klbs) Rotating.
2:30	3:00	0.50	P-DRL	LKOFF	PP		Lined up Dowell to standpipe manifold and down choke and kill lines. Confirmed circulation path and shut-in well on MPR's. Conducted FIT with 1.15SG (9.55ppg) to 11,087kPa (1608psi) surface pressure - 1.6SG (13.3ppg) EMW.
3:00	4:00	1.00	P-DRL	DRLCPA	PN	MW	Opened MPR's and recorded SCR's. Drilled 216mm (8-1/2") hole from 3252m to 3253m while troubleshooting Telescope MWD - unsuccessful. Pulled back inside casing to 3235m and continued to troubleshoot MWD with a range of different parameters as per SLB instructions while discussing options with Perth Office.
4:00	10:30	6.50	P-DRL	TRIP	PN	MW	POH 127mm (5") DP on elevators from 3235m to 2962m - observed 36.3MT (80klbs) overpull. Made up TDS and dry rotated out of hole to 2945m with persistent 13.6MT (30klbs) overpull. Continued to POH to 2615m with excess drag (friction only). Continued to POH 127mm (5") DP from 2962m to BHA at 346m. Ave tripping speed 445m/hr.
10:30	11:00	0.50	P-DRL	TRIPBHA	PN	MW	POH 127mm (5") HWDP and 171mm (6-3/4") DC's to 36m and rack same in derrick.
11:00	11:30	0.50	P-DRL	MWD_LWD	PN	MW	Removed RA sources. Racked back SonicVision and ARC6. POH and laid out failed Telescope MWD tool.
11:30	12:00	0.50	P-DRL	MWD_LWD	PN	MW	Made up back-up Telescope MWD tool. Picked up SonicVision and GVR6 from derrick. Installed RA sources and RIH to 36m.
12:00	12:30	0.50	P-DRL	TRIPBHA	PN	MW	RIH 171mm (6-3/4") DC's and 127mm (5") HWDP to 94m.
12:30	13:00	0.50	P-DRL	CIRC	PN	MW	Shallow tested MWD/LWD tool string at 2.74m³/min (725gpm) and 10,343kPa (1500psi) - good pulse, but unable to detect SonicVision or GVR6.
13:00	13:30	0.50	P-DRL	TRIPBHA	PN	MW	POH 127mm (5") HWDP and 171mm (6-3/4") DC's to 36m and rack same in derrick. Checked wet connects between GVR6 and SonicVision - OK. Picked up and RIH 3 x 127mm (5") DP singles to 66m.
13:30	14:00	0.50	P-DRL	CIRC	PN	MW	Shallow tested LWD at 1.70m³/min (450gpm) and 4,482kPa (650psi) - good pulse, but unable to detect SonicVision or GVR6. POH and rack back 127mm (5") DP stand in derrick.
14:00	15:00	1.00	P-DRL	MWD_LWD	PN	MW	Laid out SonicVision and GVR6 to pipe deck. Picked up and made up back-up tools. Installed RA sources and RIH to 36m.

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From	To	HRS	Phase	Operation	PT/NPT	NPT CODES	ACTIVITY SUMMARY
15:00	15:30	0.50	P-DRL	CIRC	PN	MW	Shallow tested MWD/LWD tool string at 2.74m ³ /min (725gpm) and 10,343kPa (1500psi) - OK.
15:30	16:30	1.00	P-DRL	TRIPBHA	PN	MW	RIH 171mm (6-3/4") DC's and 127mm (5") HWDP to 346m.
16:30	18:30	2.00	P-DRL	RIGSER	PN	TD	DOWNTIME: DROPPED OBJECT/NEAR MISS INCIDENT. Dolly roller fell from TDS to rig floor. Repaired 2 x dolly rollers and held safety meeting with drill crew regarding dropped object awareness.
18:30	19:00	0.50	P-DRL	TRIP	PN	MW	RIH 216mm (8-1/2") BHA on 127mm (5") DP from 346m to 577m. Ave tripping speed 462m/hr.
19:00	19:30	0.50	P-DRL	RIGSER	PN	RO	DOWNTIME: Unable to function lock-bar on compensator. Troubleshoot same - unsuccessful. Increased air pressure on compensator cylinders for maximum stroke and continued RIH.
19:30	20:30	1.00	P-DRL	TRIP	PN	MW	RIH 127mm (5") DP from 530m to 892m. Ave tripping speed 362m/hr. Filled pipe and circulated at 1.70m ³ /min (450gpm) and 6,206kPa (900psi) - good MWD pulse detected at surface. Increased flow rate to 2.84m ³ /min (750gpm) and 10,480kPa (1520psi) - maintained good MWD signal.
20:30	22:30	2.00	P-DRL	RIGSER	PN	RO	DOWNTIME: Continued to troubleshoot leaking compensator pipework with drilling and sub-sea departments. Stainless steel fitting on lock-bar supply line loose. Isolated air supply and removed chain guides. Tightened fitting and function tested lock-bar - OK.
22:30	0:00	1.50	P-DRL	TRIP	PN	MW	RIH 127mm (5") DP from 892m to 1499m. Filled pipe and circulated at 1.70m ³ /min (450gpm) and 8,550kPa (1240psi) - no MWD pulse detected at surface. Cycled pumps - no signal. Decreased flow rate to 1.14m ³ /min (300gpm) and 4,861kPa (705psi) to attempt to clear any potential blockages in Telescope. Increased flow rate to 2.46m ³ /min (650gpm) and 15,996kPa (2320psi) and regained MWD pulse. Circulated drill string volume at 2.99m ³ /min (790gpm) and 22,616kPa (3280psi) to flush pipe. Continued to RIH from 1499m to 1787m. Filled pipe and circulated at 1.70m ³ /min (450gpm) and 9,515kPa (1380psi) - no MWD pulse detected at surface. Cycled pumps and increased flow rate to 2.65m ³ /min (700gpm) and 18,617kPa (2700psi) - good MWD pulse detected at surface. Ave tripping speed 597m/hr. Note: Approximately 30mins total was spent troubleshooting MWD detection problems while RIH.

24.00 = Total Hours Today

06:00 UPDATE

0000-0600
 00:00 - 00:30hrs: RIH 127mm (5") DP from 1787m to 2075m. Filled pipe and circulated at 1.70m³/min (450gpm) and 9,515kPa (1380psi) - no MWD pulse detected at surface. Cycled pumps and increased flow rate to 2.65m³/min (700gpm) and 18,617kPa (2700psi) - good MWD pulse detected at surface.
 00:30 - 01:30hrs: RIH 127mm (5") DP from 2075m to 2364m. Filled pipe and circulated at 2.46m³/min (650gpm) and 16,686kPa (2420psi) - good MWD pulse detected at surface.
 01:30 - 02:30hrs: RIH 127mm (5") DP from 2364m to 2940m. Filled pipe and circulated at 2.46m³/min (650gpm) and 21,375kPa (3100psi) - weak MWD pulse detected at surface. Reduced flow rate to 1.14m³/min (300gpm) to clear any potential blockages in Telescope. Increased flow rate to 2.95m³/min (780gpm) and 27,373kPa (3970psi) and regained MWD pulse.
 02:30 - 03:30hrs: RIH 127mm (5") DP from 2940m to 3224m. Washed and rotated down to tag bottom at 3253m with 4.5MT (10klbs), 80rpm, 2.92m³/min (770gpm) and 28,959kPa (4200psi).
 03:30 - 06:00hrs: Drilled 216mm (8-1/2") hole from 3253m to 3256m. Ave ROP 1.2m/hr. Indications of bit balling.

Drilling Parameters:

WOB: 4.5 - 11.3MT (10 - 25klbs). RPM: 50 - 110.
 TQ (ON): 24.4 - 29.8kN.m (18 - 22kft.lbs).
 TQ (OFF): 28.5 - 35.3kN.m (21 - 26kft.lbs).
 FLOW: 2.27 - 2.91m³/min (600 - 770gpm). SPP: 20,340 - 28,959kPa (2950 - 4200psi)
 String Weights:
 UP: 172MT (380klbs). DOWN: 109MT (240klbs).
 ROTATING: 134MT (295klbs).

HSE: Dropped Object / Near Miss Incident. Dolly roller fell from TDS in derrick. Report pending.
 Total Stop cards - 61 (18 unsafe, 43 safe). JSA - 27, PTW - 9.

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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
4 / 1	216.0	SMITH	Mi716VWEBP X	JY7487	7x13	3,248.90 / 01-01-2009	1-1-CT-S-X-I-NO-DTF
4RR / 2	216.0	SMITH	Mi716VWEBP X	JY7487	7x13	3,253.00 / 02-01-2009	-----

BIT OPERATIONS											
BIT / RUN	WOB	RPM	FLOW	PRESS	P BIT	HRS	24 Hr PROG	24 HR ROP	CUM HRS	CUM PROG	CUM ROP
4/1	2/9	40/95	2,376.10	20,099	2886	3.00	4.90	1.6	4.00	5.40	1.4

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 (%)
59	15/20	5/6	6/0	1/9	0/0	0/5	10.50/0.00	2.40/4.00	56,000	180	0	0	5

Density (sg)	1.14	ECD (sg)	0.00	PP	DAILY COST	1122	CUM COST	368,800	%OIL	2
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BHA	5	JAR S/N	17605011	BHA / HOLE CONDITIONS				JAR HRS	4.60	BIT	4RR
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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)
					346.62

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	8.11	190.50	92.08		
Logging While Drilling	1	3.56	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		

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: 20,099 (kPa) HP: 0.312 (kW/cm ²)	PUMPS # 1	SPM	PPSR				
# 1	304.80	40	152.40					654	30/74/50/40	2,413/20,099/4,137/3,034	
# 2	304.80	40	152.40					654	PUMPS # 2	50/75/30/40	3,999/20,099/2,344/3,172
# 3	304.80										

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PERSONNEL DATA

COMPANY	QTY	HRS	COMPANY	QTY	HRS
BRANDT	1		SUBSEA 7	3	
ANADRILL	5		BJ TRS	1	
WEST ENGINEERING	2		DOWELL	2	
APACHE	5		KEMTECH	2	
DODI	60		BHI	6	

TOTAL PERSONNEL ON BOARD: 87

SUPPORT CRAFT

TYPE	REMARKS
HELICOPTER	JYN (Pax On - 6, Pax Off - 10).
FAR SKY	Geelong.
SWISSCO 168	On Location.
YARABAH	Geelong.
FAR GRIP	On Location.

MATERIALS/CONSUMPTION

ITEM	UNITS	USAGE	ON HAND	ITEM	UNITS	USAGE	ON HAND
BARITE BULK	MT	3	100	BENTONITE	MT		26
CEMENT	MT		16	DIESEL	m3		325
WATER, POTABLE	m3	28	332	WATER, DRILLING	m3	18	619

WEATHER

TIME	SWELL HT/DIR/PER	WAVE HT/DIR/PER	WIND SPEED/DIR	GUST SPEED/DIR	TEMP
00:00	/ /235.00/3	3.50/240.00/12	/	18.5/235.00	

DECKLOG

MAX VDL	ACT VDL	AVG VDL	LEG PEN (BOW)	LEG PEN (PORT)	LEG PEN (S BOARD)
2560	1885	1885			

SAFETY DRILLS

RAMS (kPa)	ANNULARS (kPa)	CASING	LAST BOP DRILL	NEXT BOP PRESS TEST	FIRE DRILL	H2S DRILL	MAN OVERBRD	ABND. DRILL
28-12-2008 / 34,475	28-12-2008 / 34,475	27-12-2008 / 17,237	22-12-2008	05-01-2009	28-12-2008			28-12-2008

INCIDENT REPORT

INCIDENTS TYPE	OTHER	LOST TIME? NO	INCIDENTS DESCRIPTION
			DROPPED OBJECT: Doller roller fell from derrick while RIH 216mm (8-1/2") BHA.

ANCHOR TENSION DATA

ANCHOR NO	CURRENT TENSION	ANCHOR NO	CURRENT TENSION	ANCHOR NO	CURRENT TENSION
1	182	2	180	3	177
4	160	5	187	6	190
7	207	8	196	9	
10		11		12	

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MUD INVENTORY

ITEM	UNIT	USAGE	Day Cost (\$)	ON HAND
CIRCAL 1000	25.00 kg		0.00	96.00
OMYACARB 10	25.00 kg		0.00	0.00
KWIKSEAL (M)	40.00 lbs		0.00	108.00
LIME	25.00 kg		0.00	0.00
SODIUM BICARBONATE - NaHCO3	25.00 kg		0.00	47.00
BENTONITE	1.00 MT		0.00	24.00
NUT PLUG	50.00 lbs		0.00	14.00
SAPP	25.00 kg		0.00	35.00
STAR GLIDE	55.00 gal		0.00	4.00
BARITE (bulk)	1.00 MT	4.00	1,122.44	100.00
KLA STOP	55.00 gal		0.00	16.00
SOLTEX	50.00 lbs		0.00	202.00
CIRCAL Y	25.00 kg		0.00	96.00
POLYPLUS	25.00 kg		0.00	8.00
CITRIC ACID	25.00 kg		0.00	116.00
KCL (1.0 MT)	1.00 MT		0.00	8.00
STAR GLIDE	208.00 l		0.00	20.00
SODA ASH- SOD.CARBONATE-Na2CO3	25.00 kg		0.00	10.00
DRISPAC SL	50.00 lbs		0.00	123.00
POLYSAI	25.00 kg		0.00	74.00
KWIKSEAL (F)	40.00 lbs		0.00	72.00
FLOWZAN	25.00 kg		0.00	205.00
CAUSTIC SODA - NaOH	25.00 kg		0.00	17.00
DEFOAM A	5.00 gal		0.00	13.00
GUAR GUM	25.00 kg		0.00	0.00
CIRCAL 60/16	25.00 kg		0.00	340.00
CALCIUM CHLORIDE 74-77%	25.00 kg		0.00	69.00
KCL BRINE (1.15SG)	1.00 bbl		0.00	0.00
SAFE-CIDE	25.00 l		0.00	15.00