

Company: Esso Australia Pty Ltd.

Well: A-6a

Field: Halibut

Rig: Crane / Prod 2

Country: Australia

Press, Temp, & Spinner Survey  
Reservoir Saturation Survey  
MAXIS Operating System

Crane / Prod 2  
Halibut  
Gippsland  
A-6a  
Esso Australia Pty Ltd.

LOCATION			
Gippsland Basin Bass Strait	Permanent Datum:	Mean Sea Level	Elev.: K.B. 29.45 m
	Log Measured From:	Kelly Bushing	G.L. -73 m
	Drilling Measured From:	Kelly Bushing	D.F. 29.45 m
State: Victoria	Max. Well Deviation 63 deg	Longitude 148°19' 07.62"E	Latitude 38°24' 20.36"S

Logging Date	30-May-2006						
Run Number	1						
Depth Driller	3444 m						
Schlumberger Depth	3444.2 m						
Bottom Log Interval	3443.7 m						
Top Log Interval	3125 m						
Casing Fluid Type	Production Fluids						
Salinity							
Density	0.7 g/cm3						
Fluid Level							
BIT/CASING/TUBING STRING							
Bit Size	8.500 in						
From	549.5 m						
To	3473.5 m						
Casing/Tubing Size	7.000 in						
Weight	26 lbm/ft						
Grade	L-80						
From	12.82 m						
To	3466.5 m						
Maximum Recorded Temperatures	107 degC						
Logger On Bottom	30-May-2006		14:26				
Unit Number	3827	AUSL					
Recorded By	O. Tahmisić, J. Hogan						
Witnessed By	J. Dean, D. Broomfield						

				Run 1	Run 2	
PVT DATA						
Oil Density						
Water Salinity						
Gas Gravity						
Bo						
Bw						
1/Bg						
Bubble Point Pressure						
Bubble Point Temperature						
Solution GOR						
Maximum Deviation				63 deg		
CEMENTING DATA						
Primary/Squeeze				Primary		
Casing String No						
Lead Cement Type						
Volume						
Density						
Water Loss						
Additives						
Tail Cement Type						
Volume						
Density						
Water Loss						
Additives						
Expected Cement Top						
Logging Date						
Run Number						
Depth Driller						
Schlumberger Depth						
Bottom Log Interval						
Top Log Interval						
Casing Fluid Type						
Salinity						
Density						
Fluid Level						
BIT/CASING/TUBING STRING						
Bit Size						
From						
To						
Casing/Tubing Size						
Weight						
Grade						
From						
To						
Maximum Recorded Temperatures						
Logger On Bottom		Time				
Unit Number		Location				
Recorded By						
Witnessed By						

Date Created: 5-JUN-2006 22:27:13

## Logging Cable

Type:	2-32ZT
Serial Number:	24031
Length:	6249.92 M
Conveyance Method:	Wireline
Rig Type:	Offshore Fixed

Log Sequence:	Subsequent Trip To the Well
Reference Log Name:	HALIBUT A6a Correlation Logs
Reference Log Run Number:	1
Reference Log Date:	26-Dec-2003
Subsequent Trip Down Log Correction:	

1. All Schlumberger Depth Control Policies followed.
2. Correlation log provided by Esso.
3. Gamma Ray response used for correlation.
4. IDW used as Primary Depth Control.
5. Z-Chart used as Secondary Depth Control.
- 6.

THE USE OF AND RELIANCE UPON THIS RECORDED-DATA BY THE HEREIN NAMED COMPANY (AND ANY OF ITS AFFILIATES, PARTNERS, REPRESENTATIVES, AGENTS, CONSULTANTS AND EMPLOYEES) IS SUBJECT TO THE TERMS AND CONDITIONS AGREED UPON BETWEEN SCHLUMBERGER AND THE COMPANY, INCLUDING: (a) RESTRICTIONS ON USE OF THE RECORDED-DATA; (b) DISCLAIMERS AND WAIVERS OF WARRANTIES AND REPRESENTATIONS REGARDING COMPANY'S USE OF AND RELIANCE UPON THE RECORDED-DATA; AND (c) CUSTOMER'S FULL AND SOLE RESPONSIBILITY FOR ANY INFERENCE DRAWN OR DECISION MADE IN CONNECTION WITH THE USE OF THIS RECORDED-DATA.

OTHER SERVICES2  
OS1:  
OS2:  
OS3:  
OS4:  
OS5:

REMARKS: RUN NUMBER 2

Log objectives:

1. Conduct two shut-in RST-Sigma, pressure, and temperature passes over interval HUD to 3125m MDKB @ 900 fph.
2. Conduct flowing Sigma, pressure, temperature, and spinner survey over interval 3208m to 3125m MDKB (up/down @ 10m/min & @ 30m/min).

Tool string as per enclosed sketch.

Well sketch from Halibut A-6a Wireline Program (17-May-2006)

THP: 38 psi THT: 61 degF; BHP: 3322 psi BHT: 226 degF

Total Hang Up Depth = 3444.2m MDKB

Same casing ID, OD, and weight parameters were used as in the RST log from

25-May-2004. Extra tubing weight has not been accounted for.

This job was completed over two days due to unsafe weather conditions. Baseline

was completed on 30-May-2006; remaining passes completed on 31-May-2006.




Maximum logging speed for RST in Sigma mode is 20m/min.

Day crew: P. Lawrence and B. Flynn Night crew: D. Stuckey and J. Annear

Performed by Schlumberger.

RUN 1			RUN 2		
SERVICE ORDER #: AUSL06185782			SERVICE ORDER #:		
PROGRAM VERSION: 14C0-302			PROGRAM VERSION:		
FLUID LEVEL:			FLUID LEVEL:		
LOGGED INTERVAL	START	STOP	LOGGED INTERVAL	START	STOP

## EQUIPMENT DESCRIPTION

RUN 1		RUN 2	
SURFACE EQUIPMENT			
WITM-A 415 PSC_16MHZ			
DOWNHOLE EQUIPMENT			
MH-SWHS-A MH-SWHS-A 754		15.93	
EQF-46 EQF-46 210		15.53	
EQF-46 EQF-46 211		13.70	
PSPT-B PSC-A PSPT-B PSTC 806 PBMS-B 827 CQG_F_Mano RTD Thermometer GR 33143 CCL PBMS	Detail MT TelStatus CTEM  GR  Well_Temp CQG Manom CCL PBMS PSTC	11.88 11.88 10.75 9.82 9.71 9.58 9.36	
PILS-A PILS-A	Spinner	8.86	9.36
RST-C RSCH-A 45 RSC-C 57 RSS-A 45 RSXH-A 63 RSX-C 59			8.58

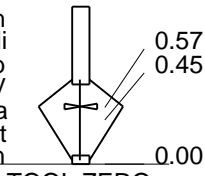
RSC-A Far  
RSC-A PNG  
RSC-A Nea  
RSX-A PNG

5.81

5.65

PFCS-A  
Holdup Probes  
Turbine  
Relative Bearing  
Caliper  
PFCC-A  
PFCH-A 799

PFCS Spin  
PFCS Cali  
PFCS Prob  
PFCS Wave HV  
PFCS Rela  
PFCS Cart  
Tension



1.57

TOOL ZERO

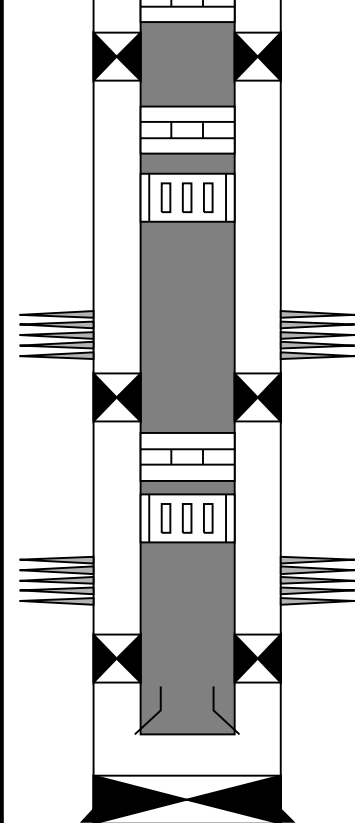
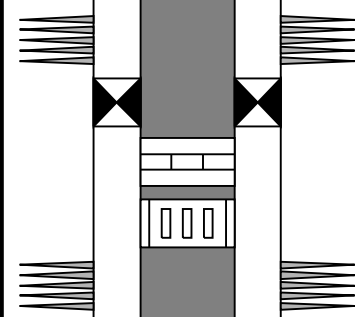
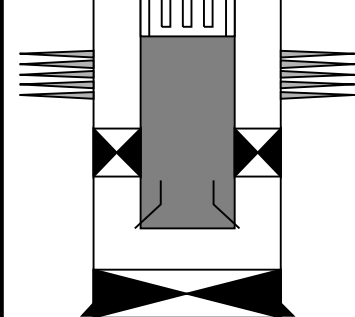
MAXIMUM STRING DIAMETER 2.13 IN  
MEASUREMENTS RELATIVE TO TOOL ZERO  
ALL LENGTHS IN METERS

Client: Esso Australia Pty Ltd.  
Well: A-6a  
Field: Halibut  
State: Victoria  
Country: Australia

Rig Name: Crane  
Reference Datum: Mean Sea Level  
Elevation: 29.4 m

Drawing Date: 27-May-2006

Production String	(in)		(m)	Well Schematic	(m)			Casing String
	OD	ID	MD		MD	OD	ID	
Tubing, 9.2 lbs/ft, 13Cr-80	3.500	2.992	12.1		11.2	10.750	10.050	Casing String, 40.5 lbs/ft, J-55 Casing String, 26.0 lbs/ft, L-80
					12.8	7.000	6.276	
					549.5	10.750	10.050	Casing Shoe
Gas Lift Mandrel	3.500		750.6					
Gas Lift Mandrel	3.500		1031.4					
Gas Lift Mandrel	3.500		1463.2					
Gas Lift Mandrel	3.500		1879.1					
Nipple	3.500		2293.5					

Packer	7.000	3.500	3010.6		3163.0			Old Perforation Zone 3163m to 3169m MDKB
Nipple	3.500		3014.3					
Sliding Sleeve	3.500		3028.6					
Packer	7.000	3.500	3170.3		3180.5			Old Perforation Zone 3180.5m to 3182.5m MDKB
Nipple	3.500		3173.8					
Sliding Sleeve	3.500		3178.1					
Packer	7.000	3.500	3202.5		3466.5	7.000	6.276	Casing Shoe
Bell Nipple Guide	3.910	2.867	3206.4					
Tubing Bottom	3.500	2.992	3208.3					
Bridge Plug	7.000	0.000	3444.0					