

Rig: 22

Field: Mackeral

Location: Bass Strait

Well: MACKERAL A19

Company: Esso Australia Pty Ltd

Depth Determination

GR-CCL

15-Mar-2010

LOCATION

Bass Strait

Gippsland Basin

Elev.: K.B. 39.50 m

G.L. -92.70 m

D.F. 39.50 m

Permanent Datum: Mean Sea Level

Elev.: 39.50 m

Log Measured From: Drill Floor

-39.50 m above Perm. Datum

Drilling Measured From: Drill Floor

State: Victoria

Max. Well Deviation 60 deg

Longitude 148° 20' 33.43" E

Latitude 38°28' 44.85" S

Company: **Esso Australia Pty Ltd**

Well: **MACKERAL A19**

Field: **Mackeral**

Rig: **22** Country: **Australia**

Logging Date	15-Mar-2010		
Run Number	1		
Depth Driller	3909.9 m		
Schlumberger Depth	3711 m		
Bottom Log Interval	3710.5 m		
Top Log Interval	3575.2 m		
Casing Fluid Type	Brine		
Salinity			
Density	1 g/cm3		
Fluid Level	0 m		
BIT/CASING/TUBING STRING			
Bit Size	8.500 in		
From	1502 m		
To	3909 m		
Casing/Tubing Size	7.625 in		
Weight	29.7 lbm/ft		
Grade	L-80		
From	12 m		
To	3909.9 m		
Maximum Recorded Temperatures			
Logger On Bottom	Time	15-Mar-2010	3:00
Unit Number	Location	3827	AUSL
Recorded By	Owen D & Micheal P		
Witnessed By	Jon D & Donald B		

PVT DATA	Oil Density	Run 1	Run 2	Run 3
	Water Salinity			
	Gas Gravity			
	Bo			
	Bw			
	1/Bg			
	Bubble Point Pressure			
	Bubble Point Temperature			
	Solution GOR			
	Maximum Deviation	60 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			

DEPTH SUMMARY LISTING

Date Created: 16-MAR-2010 10:37:43

Depth System Equipment

Depth Measuring Device		Tension Device		Logging Cable	
Type:	IDW-BA	Type:	CMTD-B/A	Type:	7-46ZV XS
Serial Number:	797	Serial Number:	1711	Serial Number:	24187
Calibration Date:	11-Sep-2009	Calibration Date:	10-Nov-09	Length:	6000 M
Calibrator Serial Number:	30	Calibrator Serial Number:	1173	Conveyance Method: Wireline Rig Type: Offshore Fixed	
Calibration Cable Type:	1-32ZT	Number of Calibration Points:	10		
Wheel Correction 1:	-2	Calibration RMS:	9		
Wheel Correction 2:	-2	Calibration Peak Error:	14		

Depth Control Parameters

Log Sequence:	Subsequent Log In the Well
Reference Log Name:	Solar Composite Log
Reference Log Run Number:	UNKNOWN
Reference Log Date:	UNKNOWN

Depth Control Remarks

1. Used IDW as primary depth control
2. Used Z-Chart as secondary depth control
3. All dpeths are MDKB
4.
5.
6.

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OTHER SERVICES1
OS1:
OS2:
OS3:
OS4:
OS5:
REMARKS: RUN NUMBER 1
Correlated to petrophysical analysis log provided by client EXXONMobil
Objective:
Make up toolstring incorporating GR - CCL.
RIH to with toolstring tag QPRB located @ 3695m MDKB.
Correlate on depth using petrophysical analysis log.
Log GR, CCL over proposed packer setting depth for depth determination of casing

Log CH-CCL over proposed packer setting depth for depth determination of casing
collars.
POOH, rig down.
CCL to Bottom of Tool = 4.5m
QPRB found to be @ 3710.5m MDKB

Crew: Rick Murray & Andrew Pratt (Nights)
Andrew Hall & Scott Lansbury (Days)

RUN 1			SERVICE ORDER #:		
SERVICE ORDER #:			PROGRAM VERSION:		
PROGRAM VERSION:			FLUID LEVEL:		
17C0-154			0 m		
LOGGED INTERVAL	START	STOP	LOGGED INTERVAL	START	STOP

EQUIPMENT DESCRIPTION

RUN 1	
SURFACE EQUIPMENT	
SHM-EA	
DOWNHOLE EQUIPMENT	
SHM_GUN	6.20
MH-22	6.20
MH-22	
PGGT-CC	5.72
PGGC 209	
PGGH-A 209	
Gamma Ray	0.48
Casing Co Tension	TOOL ZERO
EQF-43	3.76
EQF-43 201	

EQF-43
EQF-43 202

1.93

AH-Bottom Nose

0.10

TOOL BOTTOM

MAXIMUM STRING DIAMETER 1.69 IN
MEASUREMENTS RELATIVE TO TOOL ZERO
ALL LENGTHS IN METERS

Client: Esso Australia Pty Ltd

Well: MKA A19

Field: Mackeral

State: Victoria

Country: Australia

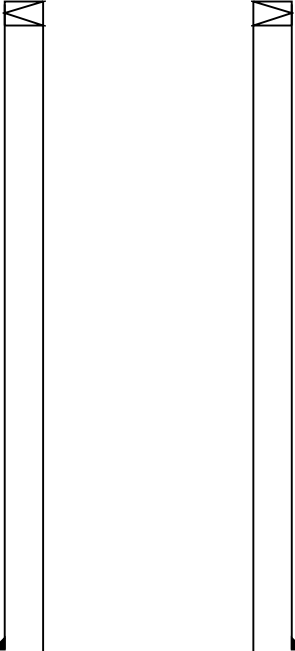

Rig Name: 22

Reference Datum: Mean Sea Level

Elevation: 39.5 m

Drawing Date: 3/15/2010

API #:

Production String	(in)		(m)	Well Schematic	(m)	(in)		Casing String
	OD	ID	MD		MD	OD	ID	
					20.0	10.375	7.625	Casing String Liner Hanger
					12.0	10.375		
					1502.0	10.375		Casing Shoe



	Time	Elapsed Time	Depth (M)	File
Simulated Log	15-Mar-2010 3:15	000:08		PERFO_006LUP
Descent 1: PGGCC/GUN				
Begin Descent	15-Mar-2010 3:17			
Begin GR-CCL				
Log Pass (up)	15-Mar-2010 5:36	000:13	3708.3 - 3571.2	PERFO_012LUP
Rig Down Completed	15-Mar-2010 7:40			



Depth Determination Correlation Pass

MAXIS Field Log

Company: Esso Australia Pty Ltd

Well: MACKERAL A19

Input DLIS Files

PERFO_012LUP

FN:11

15-Mar-2010 11:03

3708.4 M

3571.2 M

Output DLIS Files

DEFAULT

PERFO_003PUP

FN:2

PRODUCER

15-Mar-2010 11:21

3712.3 M

3575.2 M

OP System Version: 17C0-154

PGGT-CC

17C0-154

SHM_GUN

17C0-154

