

Company: Esso Australia Pty. Ltd.

Well: A17A

Field: Tuna

Rig: Prod 2 / Crane Country: Australia

RST-C Sigma Survey
3390m to 2300m MDKB
Reservoir Saturation Log

Prod 2 / Crane
Tuna
Gippsland
A17A
Esso Australia Pty. Ltd.

LOCATION			
Gippsland	Basin Bass Strait	Elev.:	K.B. 32.1 m
		G.L.	-59 m
		D.F.	32.1 m
Permanent Datum:	Mean Sea Level		
Log Measured From:	Kelly Bushing		
Drilling Measured From:	Kelly Bushing		
State: Victoria	Max. Well Deviation 64 deg	Longitude 148°25' 05.29"E	Latitude 38°10' 16.00"S

Logging Date	2-Feb-2006		
Run Number	1		
Depth Driller	3402 m		
Schlumberger Depth	3399.3 m		
Bottom Log Interval	3391.26 m		
Top Log Interval	2250 m		
Casing Fluid Type	Production Fluids		
Salinity			
Density	1 g/cm3		
Fluid Level			
BIT/CASING/TUBING STRING			
Bit Size	6.000 in		
From	2796.5 m		
To	3480 m		
Casing/Tubing Size	4.500 in		
Weight	12.6 lbm/ft		
Grade	L-80		
From	2767 m		
To	3414.38 m		
Maximum Recorded Temperatures	107 degC		
Logger On Bottom	2-Feb-2006	13:27	
Unit Number	Location		
Recorded By	Kyaw Kyaw Aung, Omar Tahmistic		
Witnessed By	Mr. Jimmy Dean		

PVT DATA				Run 1	Run 2
Oil Density					
Water Salinity					
Gas Gravity					
Bo					
Bw					
1/Bg					
Bubble Point Pressure					
Bubble Point Temperature					
Solution GOR					
Maximum Deviation	64 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: 3-FEB-2006 15:02:53

Logging Cable

Type:	7-46 M18 XS
Serial Number:	4202
Length:	0.00 M
Conveyance Method:	Wireline
Rig Type:	Offshore Fixed

Log Sequence:	Subsequent Trip To the Well
Reference Log Name:	TUNA A17A CORRELATION LOGS
Reference Log Run Number:	
Reference Log Date:	no date available
Subsequent Trip Down Log Correction:	1.50 M

1. All Schlumberger Depth Control Procedures followed.
2. Log correlated to correlation log provided by Esso.
3. GR response used for correlation.
4. IDW used as Primary Depth Control.
5. Z-Chart used as Secondary Depth Control.
6. Actual cable used was 7-32 AS XS.

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

Correlated to "TUNA A17A Correlation Logs" (no date) provided by Esso.

Pressure and temperature gathered from PBMS sensors.

Tool string as per enclosed sketch Well sketch copied from Workover Program

Performed by Schlumberger.

SERVICE ORDER #:
PROGRAM VERSION:
FLUID LEVEL:

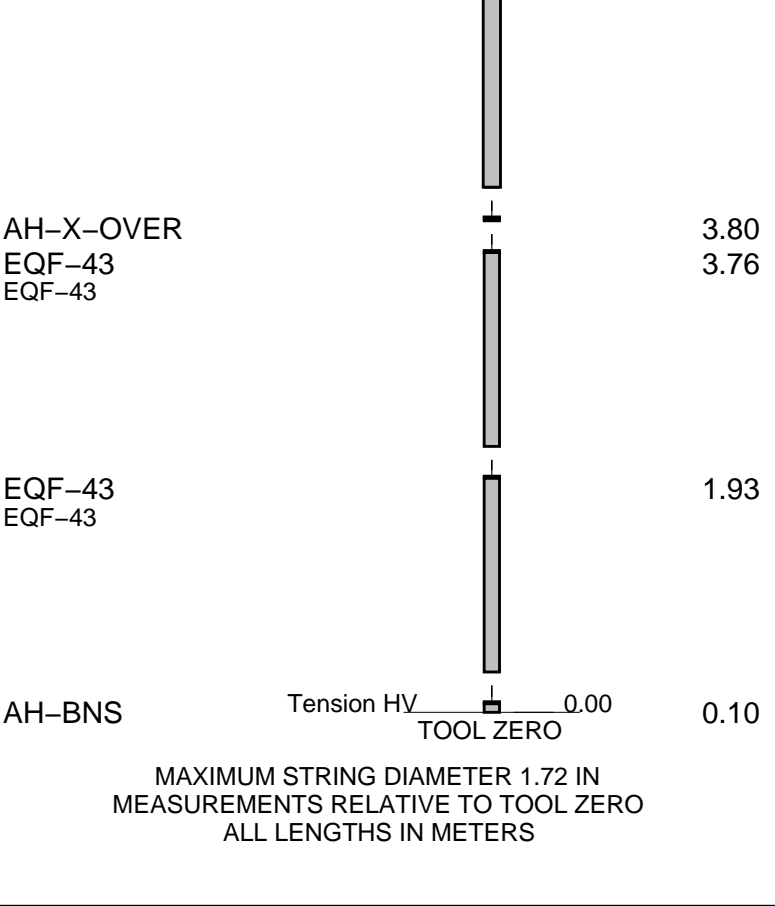
STOP

RUN 2

WITM-A 415

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

7.88
7.99



Client: Esso Australia Pty. Ltd.

Well: A17A

Field: Tuna

State: Victoria

Country: Australia

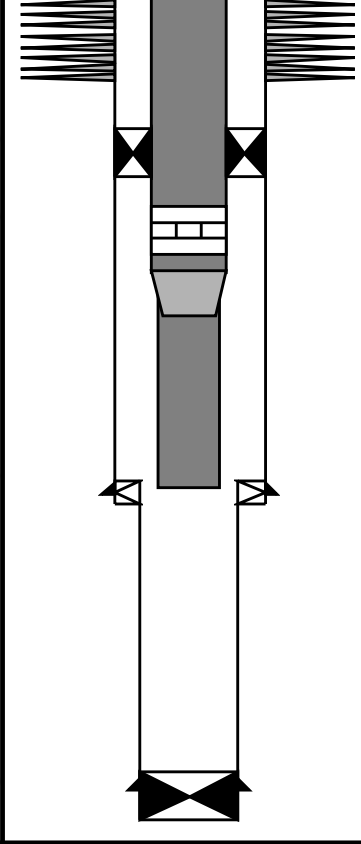
2/1/2006

Rig Name: Prod 2 / Crane

Reference Datum: Kelly Bushing

Elevation: 32.1 m

Production String	(in)		(m)	Well Schematic	(m)	(in)		Casing String
	OD	ID	MD		MD	OD	ID	
Tubing, 9.20 lbs/ft, 80	3.500	2.992	9.7		12.5	7.000	6.276	Casing String, 26 lbs/ft, L-80
					13.4	9.625	8.835	Casing String, 43.50 lbs/ft, N-80
					14.0	13.375	12.615	Casing String, 54.5 lbs/ft, K-55
Nipple	3.500	2.750	450.9					
					715.5	13.375	12.615	Casing Shoe
					729.0	9.625	8.835	Casing Shoe
Gas Lift Mandrel	3.500	2.920	1408.8					
Gas Lift Mandrel	3.500	2.920	1919.5					
Nipple	3.500	2.992	2051.6					
					2246.5			Perforation Zone
					2252.5			Perforation Zone Bottom
					2261.0			Perforation Zone

					2267.0 2275.5 2278.5			Perforation Zone Bottom Perforation Zone Perforation Zone Bottom
Packer	6.276	3.500	2300.0					
Nipple	3.500	2.992	2320.0					
Tubing Bottom	3.500	2.992	2334.9					
Crossover Joint	3.500	2.400	2334.9					
Tubing, 6.4 lbs/ft, 80	2.875	2.441	2335.1					
Tubing Bottom	2.875	2.441	2779.6		2796.5 2767.0 2767.0	7.000 4.500 7.000	6.276 4.000 4.500	Casing Shoe Casing String, 12.60 lbs/ft, 80 Liner Hanger
Bridge Plug	4.500	0.000	3406.0		3414.4	4.500	4.000	Casing Shoe