

**Esso Australia Ltd.**

**WTN W33A**

# Tuna

**Pool Rig 453**      State: **Victoria**

<div>GeoVision</div> <div>Schlumberger</div> <div>1:500 True Vertical Depth Recorded Mode Log</div>						Pool Rig 453 Tuna Bass Strait WTN W33A Esso Australia Ltd.							
				Location									
Total depth:				2460m				K.B. Top Drive					
Spud date:				23-Apr-02				G.L. -61.00m					
Runs:				1 To 1				Elevation D.F. 34.69m					
Permanent datum:				Mean Sea Level				Elev.: 0					
Log measured from:				Drill Floor				34.69m above Perm. datum					
Depth reference:				Driller's Pipe Tally									
API serial no.		x=5771796.08m (North) y=621531.7m (East)		Longitude		Latitude							
Depth logged: 1957m		To 2460m		Mag decl: 13.156°		Other services:							
Date logged: 23-Apr-02 To 24-Apr-02		Mag dip: -68.7°		Directional Drilling									
Bore hole record				Casing record									
Hole size	from	to	Size	Density	from	to							
12 1/4	surface	1957 m	20	84 pcf	0 m	157 m							
8 1/5	1957 m	2460 m	9 5/8	47 pcf	0 m	1957 m							
Type	Mud record from	to	Min	Max	Borehole deviation record from	to							
KCL/PHPA/Polymer	1957 m	2460 m	59.82°	52.10°	1957 m	2460 m							
Surface equipment		Software record											
Unit	OLU-FB-924	IDEAL Wis		ID6_1C_10r									
Depth system	PDA	SPM		ID6_1C_10r									
		LWD		See toolsketch									
		MWD		See toolsketch									
							IDEAL services from Anadrill						

## DISCLAIMER

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OTHER SERVICES FOR RUN1 Directional Surveys	OTHER SERVICES FOR RUN	OTHER SERVICES FOR RUN
REMARKS: RUN NUMBER 1 8–1/2in Hole Section was logged from 2150 m to 2460 m MD.  Depth is referenced to the Driller's pipe tally.  All data presented is from tool memory.  GR is corrected for mud weight and bit size. RAB6 Resistivity is corrected for the bit size, mud resistivity and borehole temperature.	REMARKS: RUN NUMBER	REMARKS: RUN NUMBER

mud resistivity and borehole temperature.

Bottom quadrant density is presented.  
Neutron porosity is calculated with limestone matrix and is corrected for the bit size borehome salinity, temperature and mud hydrogen index (from mud weight, temperature and pressure)

Mud type is water based KCl/PHPA.  
Barite is present in the mud.

RAB6C Downhole Software 6C-V6.1  
ADN6C Downhole Software 6.9B03

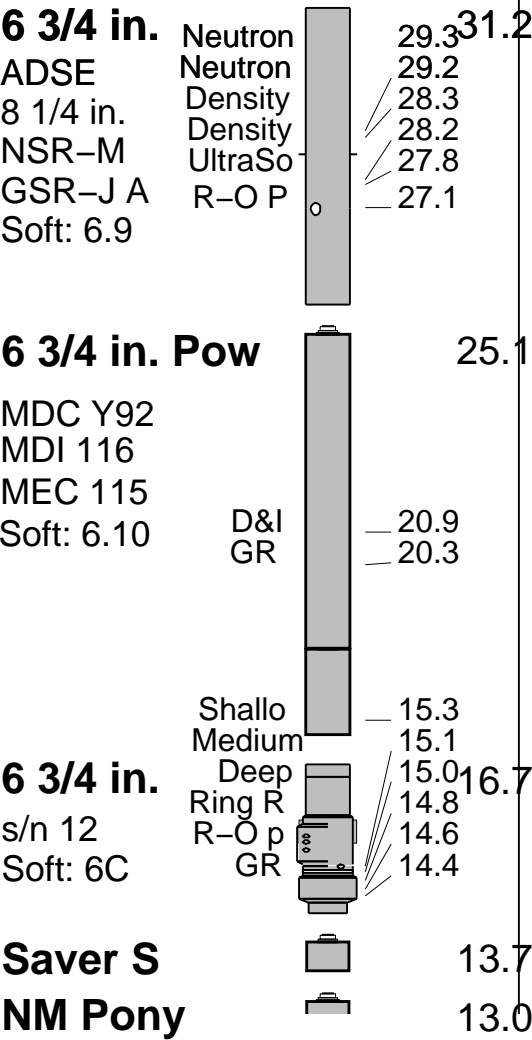
EQUIPMENT DESCRIPTION

RUN1

RUN

RUN

DOWNHOLE EQ





**Environmental data**

<b>GR</b>										
Mud weight	ppg	10.5								
Bit size	in.	8.5								
<b>Resistivity</b>										
<b>Neutron porosity</b>										
Hole Size	in.	8.5								
Mud weight	ppg	10.5								
Temperature	degC	53								
Mud salinity	mg/l	54,500								
Formation salinity										
Recording rate GR/Res		10 s								
Recording rate Dens/Neut		10 s								
Filtering GR		3 pt								
Filtering density		3 pt								
Filtering Neutron		3 pt								
Company representative		T. Basit	B. Davies							
Anadrill personnel		J. Chong	T. Ford	J. Walta						

**IDEAL Version: ID7\_0C\_02**

IDEAL

 RAB6-CA  
ADN-CA

 unofficial  
unofficial

MWD\_10-A

unofficial

Format: TripleComboDepthLog

Vertical Scale: 1:500

Graphics File Created: 04-May-2002 16:24

**Parameters**
**DLIS Name**
**Description**
**Value**

	LWD RM: Generate techlog only?	0	
	LWD RM: Log direction	DOWN	
	LWD RM: Default directory	D:\users\ideal\fm\Clients\ESSO\WTN-W33A\LWD001\	
	LWD RM: Flush depth streams?	YES	
	RAB: Button Sleeve Diameter	RAB6: 8 1/8 IN	
	LWD RM: Depth file name	DEPTH	
	RAB: Stabilizer Diameter	RAB6: 8.25-8.5 IN	
	LWD RM: Default file extension	BIN_DB	
ADN_CHASSIS_STR	ADN Chassis Type String	Undefined	
ADN_COLLAR_STR	ADN Collar Type String	Undefined	
ADN_STAB_STR	ADN Stabilizer Type String	Undefined	
AVE_ADN	ADN/Array Channels: perform averaging(RM) :	YES	
A_DHS	ADN Down Hole Software Version String	Undefined	
BDBHCA	RAB: Button Deep Borehole A Factor	-999.25	
BDBHCB	RAB: Button Deep Borehole B Factor	-999.25	
BHA_COEF_VER	RAB: BHA Coef Generator Version	-999.25	
BHT_RM	Bottom Hole Temperature (RM)	225	DEGF
BMBHCA	RAB: Button Medium Borehole A Factor	-999.25	
BMBHCB	RAB: Button Medium Borehole B Factor	-999.25	
BSAL_RM	Mud Salinity (RM)	0	PPK
BSBHCA	RAB: Button Shallow Borehole A Factor	-999.25	
BSBHCB	RAB: Button Shallow Borehole B Factor	-999.25	
BS_RM	Bit Size (RM)	8.5	IN
BUT_KIMP_A	RAB: Button Impedance Coeff A	0	
BUT_KIMP_B	RAB: Button Impedance Coeff B	0	
DBUTTON_K_FACTOR	RAB: Button Deep K factor	-999.25	
DEVI	Well Section Deviation	0.1	DEG
DHS_VERSION	RAB: DownHole Software Version	-999.25	
DTMUD	Delta-T for Mud	645.177	US/M
ENVCOR	Neutron Quadrant Processing: Environmental Correction?	YES	
IDQT	Image Derived Quality Threshold	2	
LITHO_TYPE_ADN	Lithology (RM)	LIME	
MBUTTON_K_FACTOR	RAB: Button Medium K Factor	-999.25	
MST_RM	Mud Sample temperature (RM)	75	DEGF
MW_RM	Mud Weight (RM)	10	LB/G
OBM	RAB: Oil base Mud	NO	
OBMF_RM	Oil Based Mud	NO	
PP_RM	ADN: Porosity Processing for each bank :	YES	
RABEC	RAB: Resistivity Env-Cor	YES	
RAB_TEMP_SELECT	RAB Temperature Selection	MEASURED	

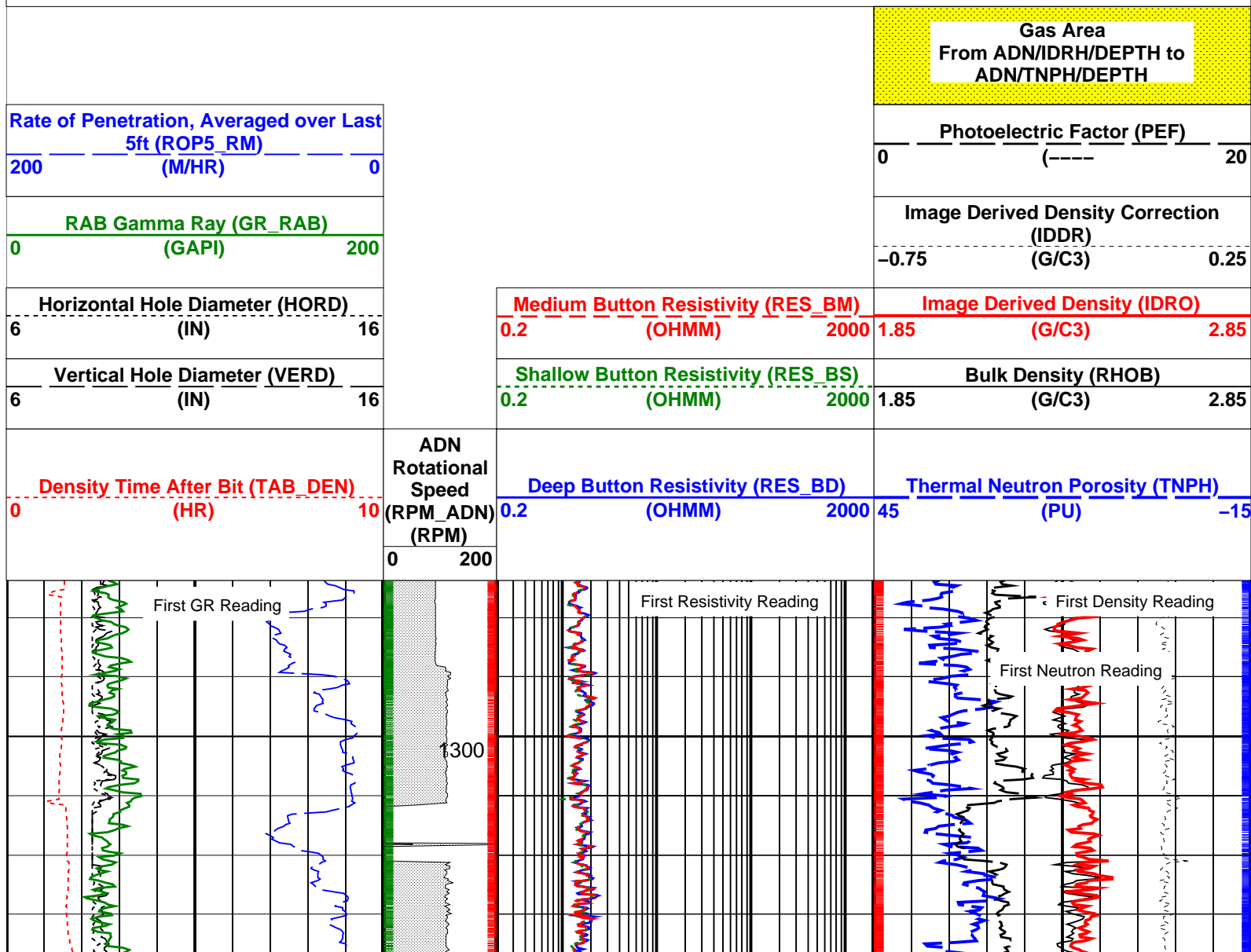
RABEC	RAB: Resistivity Env-Cor	YES
RAB_TEMP_SELECT	RAB Temperature Selection	MEASURED
READOUT_PORT_MP	RAB: ROP to Bit Face Distance	14.69
RHOF_RM	Mud Filtrate Density (RM)	1
RHOM_RM	Matrix density (RM)	2.71
RMS_RM	Resistivity of Mud Sample (RM)	1
RWS_RM	Resistivity of Connate Water (RM)	1
SBUTTON_K_FACTOR	RAB: Button Shallow K Factor	-999.25
SHT_RM	Surface Hole Temperature (RM)	75
SSIZ_ADN	ADN Stabilizer Size	8
STAB	RAB: Run with Stabilizer	YES
STOH	ADN Density Top of Hole Sector (Left Boundary):	SECTOR_0
TD_RM	Total Measured Depth (RM)	3048
TFF_OFFSET_ADN	ADN Time Frame File Time Offset	0
TOOLTYPE	RAB: Azimuthal Tool	YES
TRPM_RM	Average Tool Rotational Speed	20
TSIZ_ADN	ADN Tool Size	6.75
TS_VERSION	RAB: ToolScope Software Version	-999.25
TWS_RM	Temperature of Connate Water (RM)	75
USMIN_RM	ADN:Minimum Ultrasonic standoff (RM)	0.3
VERS_ADN	ADN Downhole Software Version	-1
VRAB6	Rab Tool type (ENP/PILOT)	RAB6_C SERIES

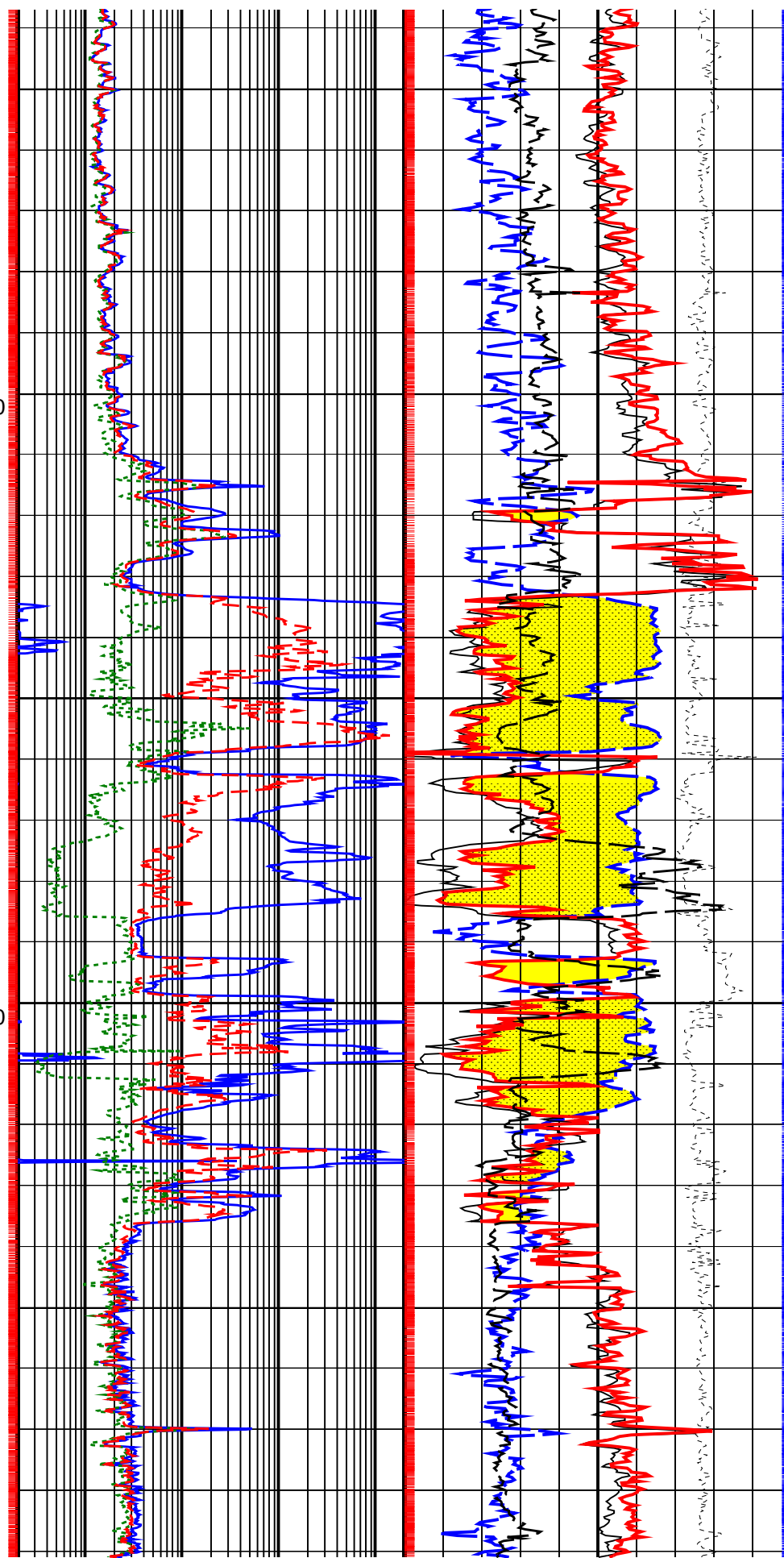
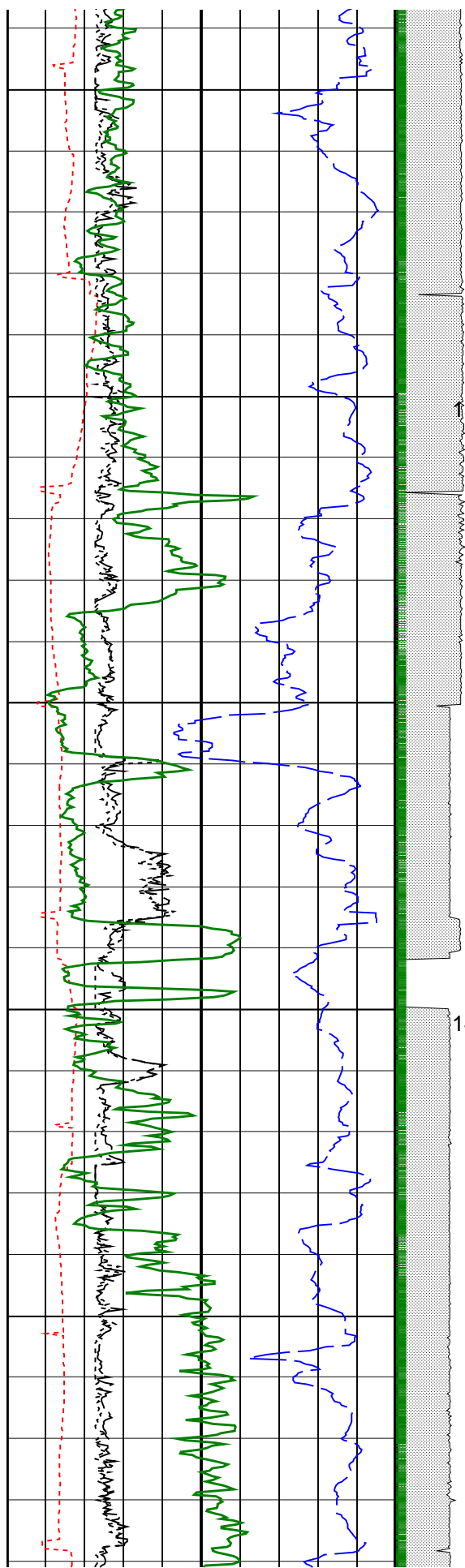
### PIP SUMMARY

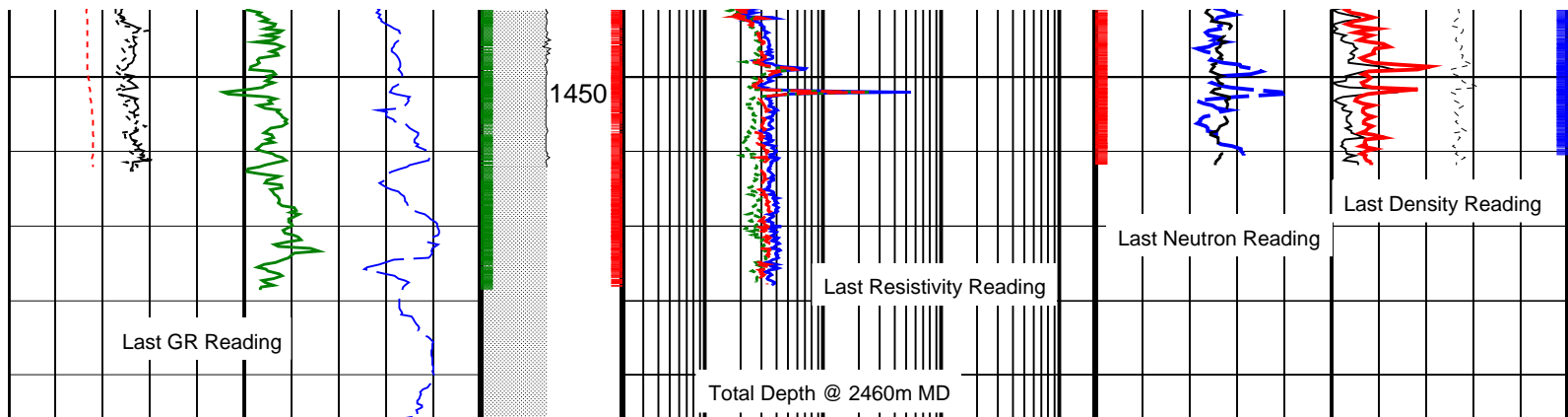
Density Samples +

Neutron Samples +

+ RAB samples  
+ Gamma Ray Samples







<div>Density Time After Bit (TAB_DEN)</div> <div>0 (HR) 10</div>		ADN Rotational Speed (RPM_ADN) (RPM) 0 200	<div>Deep Button Resistivity (RES_BD)</div> <div>0.2 (OHMM) 2000</div>		<div>Thermal Neutron Porosity (TNPH)</div> <div>45 (PU) -15</div>	
<div>Vertical Hole Diameter (VERD)</div> <div>6 (IN) 16</div>			<div>Shallow Button Resistivity (RES_BS)</div> <div>0.2 (OHMM) 2000</div>		<div>Bulk Density (RHOB)</div> <div>1.85 (G/C3) 2.85</div>	
<div>Horizontal Hole Diameter (HORD)</div> <div>6 (IN) 16</div>			<div>Medium Button Resistivity (RES_BM)</div> <div>0.2 (OHMM) 2000</div>		<div>Image Derived Density (IDRO)</div> <div>1.85 (G/C3) 2.85</div>	
<div>RAB Gamma Ray (GR_RAB)</div> <div>0 (GAPI) 200</div>					<div>Image Derived Density Correction (IDDR)</div> <div>-0.75 (G/C3) 0.25</div>	
<div>Rate of Penetration, Averaged over Last 5ft (ROP5_RM)</div> <div>200 (M/HR) 0</div>					<div>Photoelectric Factor (PEF)</div> <div>0 (----) 20</div>	
					<div>Gas Area From ADN/IDRH/DEPTH to ADN/TNPH/DEPTH</div>	

PIP SUMMARY		
Density Samples		Neutron Samples
RAB samples		
Gamma Ray Samples		

IDEAL Version: ID7_0C_02 IDEAL			
RAB6-CA	unofficial	MWD_10-A	unofficial
ADN-CA	unofficial		



6.75-in. Azimuthal Density Neutron / Equipment Identification	
Primary Equipment: Tool Name and Serial Number Collar Type and Serial Number Chassis Type and Serial Number Stabilizer Type and Serial Number Neutron Logging Source Density Logging Source Stabilizer Size Calibration Status	ADN6 - 014 ADDC - AA ADSE - EA Clamped On NSR - M - A161 GSR - Z - A2125 8.25 - in. Valid

Master: 21-Apr-2002 16:57			
6.75-in. Azimuthal Density Neutron Calibration			
Density: Magnesium Block			
Phase	LS window 3 - Mg CPS	Value	Phase
Master		1323	Master
Phase	SS window 1 - Mg CPS	Value	Phase
Master		2920	Master
Phase	SS window 3 - Mg CPS	Value	Phase
Master		7699	Master

Master		1323	Master		2920	Master		7699
250.0 (Minimum)	4125 (Nominal)	8000 (Maximum)	700.0 (Minimum)	9350 (Nominal)	18000 (Maximum)	2500 (Minimum)	23750 (Nominal)	45000 (Maximum)



Master: 21-Apr-2002 16:57														
6.75-in. Azimuthal Density Neutron Calibration														
Density: Aluminum Block														
Phase	LS window 3 – Al CPS			Value	Phase	SS window 1 – Al CPS			Value	Phase	SS window 3 – Al CPS			Value
Master				201.5	Master				1508	Master				4850
	50.00 (Minimum)	725.0 (Nominal)	1400 (Maximum)			500.0 (Minimum)	4250 (Nominal)	8000 (Maximum)			1500 (Minimum)	15750 (Nominal)	30000 (Maximum)	

Master: 21-Apr-2002 16:57														
6.75-in. Azimuthal Density Neutron Calibration														
Density: Background														
Phase	LS window 3 – Background		CPS	Value	Phase	SS window 1 – Background		CPS	Value	Phase	SS window 3 – Background		CPS	Value
Master			150.0	48.41	Master			400.0	117.8	Master			1500	520.6
	15.00 (Minimum)	82.50 (Nominal)	150.0 (Maximum)			40.00 (Minimum)	220.0 (Nominal)	400.0 (Maximum)			150.0 (Minimum)	825.0 (Nominal)	1500 (Maximum)	

Master: 21-Apr-2002 16:57									
6.75-in. Azimuthal Density Neutron Calibration									
Density: Water Block Check									
Phase	Long spacing water density G/C3			Value	Phase	Short spacing water density G/C3			Value
Master				1.040	Master				1.139
	1.016 (Minimum)	1.032 (Nominal)	1.047 (Maximum)			1.062 (Minimum)	1.107 (Nominal)	1.151 (Maximum)	

Master: Calibration date not found									
6.75-in. Azimuthal Density Neutron Calibration									
Neutron: Water Tank									
Phase	Far 1 tube 1 gain			Value	Phase	Far 1 tube 1 offset CPS			Value
Master	<div><div></div></div>			1.145	Master	<div><div></div></div>			-0.7860
0.9000 (Minimum)	1.100 (Nominal)	1.300 (Maximum)			-1.200 (Minimum)	-0.9000 (Nominal)	-0.6000 (Maximum)		
Phase	Far 1 tube 2 gain			Value	Phase	Far 1 tube 2 offset CPS			Value
Master	<div><div></div></div>			1.073	Master	<div><div></div></div>			-0.7780
0.9000 (Minimum)	1.100 (Nominal)	1.300 (Maximum)			-1.200 (Minimum)	-0.9000 (Nominal)	-0.6000 (Maximum)		
Phase	Far 1 tube 3 gain			Value	Phase	Far 1 tube 3 offset CPS			Value
Master	<div><div></div></div>			1.138	Master	<div><div></div></div>			-0.8870
0.9000 (Minimum)	1.100 (Nominal)	1.300 (Maximum)			-1.200 (Minimum)	-0.9000 (Nominal)	-0.6000 (Maximum)		
Phase	Far 2 tube 1 gain			Value	Phase	Far 2 tube 1 offset CPS			Value
Master	<div><div></div></div>			1.137	Master	<div><div></div></div>			-0.6860
0.9000 (Minimum)	1.100 (Nominal)	1.300 (Maximum)			-1.200 (Minimum)	-0.9000 (Nominal)	-0.6000 (Maximum)		
Phase	Far 2 tube 2 gain			Value	Phase	Far 2 tube 2 offset CPS			Value
Master	<div><div></div></div>			1.095	Master	<div><div></div></div>			-0.7400
0.9000 (Minimum)	1.100 (Nominal)	1.300 (Maximum)			-1.200 (Minimum)	-0.9000 (Nominal)	-0.6000 (Maximum)		
Phase	Far 2 tube 3 gain			Value	Phase	Far 2 tube 3 offset CPS			Value
Master	<div><div></div></div>			1.167	Master	<div><div>EXCEEDS LIMIT</div></div>			-0.5990
0.9000 (Minimum)	1.100 (Nominal)	1.300 (Maximum)			-1.200 (Minimum)	-0.9000 (Nominal)	-0.6000 (Maximum)		
Phase	Near 1 tube 1 gain			Value	Phase	Near 1 tube 1 offset CPS			Value
Master	<div><div></div></div>			1.101	Master	<div><div></div></div>			0
0.9000 (Minimum)	1.100 (Nominal)	1.300 (Maximum)			-50.00 (Minimum)	0 (Nominal)	50.00 (Maximum)		
Phase	Near 2 tube 1 gain			Value	Phase	Near 2 tube 1 offset CPS			Value





Phase	Near 2 tube 1 gain		Value	Phase	Near 2 tube 1 offset CPS		Value
Master			1.118	Master			0
	0.9000 (Minimum)	1.100 (Nominal)	1.300 (Maximum)		-50.00 (Minimum)	0 (Nominal)	50.00 (Maximum)

Master: Calibration date not found

#### 6.75-in. Azimuthal Density Neutron Calibration

##### Neutron: Water Block Check

Phase	Far Neutron water porosity V/V		Value	Phase	Near Neutron water porosity V/V		Value
Master			1.000	Master			1.000
	0.9000 (Minimum)	1.000 (Nominal)	1.150 (Maximum)		0.9000 (Minimum)	1.000 (Nominal)	1.150 (Maximum)

#### 6.75-in. Resistivity At-the-Bit / Equipment Identification

Primary Equipment:

Tool Name and Serial Number

RAB6 – CA

127













Calibration Status

–

Master: 12-Apr-2002 14:53

#### 6.75-in. Resistivity At-the-Bit Calibration

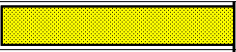
##### Resistivity: Fixture

Phase	Ring/T1 factor		Value	Phase	Ring/T2 factor		Value	Phase	M0/T1 factor		Value
Master			0.9620	Master			0.9670	Master			0.9990
	0.9750 (Minimum)	1.000 (Nominal)	1.025 (Maximum)		0.9750 (Minimum)	1.000 (Nominal)	1.025 (Maximum)		0.9750 (Minimum)	1.000 (Nominal)	1.025 (Maximum)
Phase	M0/T2 factor		Value	Phase	M2/T1 factor		Value	Phase	M2/T2 factor		Value
Master			1.007	Master			0.9940	Master			0.9970
	0.9750 (Minimum)	1.000 (Nominal)	1.025 (Maximum)		0.9750 (Minimum)	1.000 (Nominal)	1.025 (Maximum)		0.9750 (Minimum)	1.000 (Nominal)	1.025 (Maximum)
Phase	BTN shallow/T1 factor		Value	Phase	BTN shallow/T2 factor		Value	Phase	BTN medium/T1 factor		Value
Master			1.020	Master			1.028	Master			1.014
	0.9750 (Minimum)	1.000 (Nominal)	1.025 (Maximum)		0.9750 (Minimum)	1.000 (Nominal)	1.025 (Maximum)		0.9750 (Minimum)	1.000 (Nominal)	1.025 (Maximum)
Phase	BTN medium/T2 factor		Value	Phase	BTN deep/T1 factor		Value	Phase	BTN deep/T2 factor		Value
Master			1.023	Master			1.014	Master			1.021
	0.9750 (Minimum)	1.000 (Nominal)	1.025 (Maximum)		0.9750 (Minimum)	1.000 (Nominal)	1.025 (Maximum)		0.9750 (Minimum)	1.000 (Nominal)	1.025 (Maximum)

Master: Calibration date not found

#### 6.75-in. Resistivity At-the-Bit Calibration

##### Gamma Ray: Blanket

Phase	Gamma ray factor		Value
Master			0.8760
	0.7500 (Minimum)	1.000 (Nominal)	1.250 (Maximum)

ANADRILL

SCHLUMBERGER

Survey report

24-Apr-2002 21:10:53

Page 1 of 2

Client.....: ESSO AUSTRALIA LTD  
Field.....: TUNA

Well.....: WTN-W33A  
API number.....:  
Engineer.....: JC/TF/JW

COUNTY.....: POOL RIG 453  
VICTORIA.....:

Spud date.....: 23-Apr-02  
Last survey date.....: 24-Apr-02  
Total accepted surveys...: 19  
MD of first survey.....: 1957.51 m  
MD of last survey.....: 2460.00 m

----- Survey calculation methods-----  
Method for positions.....: Minimum curvature  
Method for DLS.....: Mason & Taylor

----- Depth reference -----  
Permanent datum.....: RIG FLOOR  
Depth reference.....:  
GL above permanent.....: -61.00 m  
KB above permanent.....: 34.69 m  
DF above permanent.....: 34.69 m

----- Vertical section origin-----  
Latitude (+N/S-).....: 0.00 m  
Departure (+E/W-).....: 0.00 m

----- Platform reference point-----  
Latitude (+N/S-).....: -304.57 m  
Departure (+E/W-).....: -304.57 m

Azimuth from rotary table to target: 352.03 degrees

----- Geomagnetic data -----  
Magnetic model.....: BGGM version 2001  
Magnetic date.....: 20-Apr-2002  
Magnetic field strength...: 1200.71 HCNT  
Magnetic dec (+E/W-).....: 13.16 degrees  
Magnetic dip.....: -68.71 degrees

----- MWD survey Reference Criteria -----  
Reference G.....: 1000.02 mGal  
Reference H.....: 1200.71 HCNT  
Reference Dip.....: -68.71 degrees  
Tolerance of G.....: (+/-) 2.50 mGal  
Tolerance of H.....: (+/-) 6.00 HCNT  
Tolerance of Dip.....: (+/-) 0.45 degrees

----- Corrections -----  
Magnetic dec (+E/W-).....: 13.16 degrees  
Grid convergence (+E/W-)..: -0.86 degrees  
Total az corr (+E/W-).....: 14.02 degrees  
(Total az corr = magnetic dec - grid conv)  
Sag applied (Y/N).....: No degree: 0.00

[(c)2002 Anadrill IDEAL ID6\_1C\_10]  
ANADRILL SCHLUMBERGER Survey Report

24-Apr-2002 21:10:53

Page 2 of 2

Seq #	Measured depth (m)	Incl angle (deg)	Azimuth angle (deg)	Course length (m)	TVD depth (m)	Vertical section (m)	Displ +N/S- (m)	Displ +E/W- (m)	Total displ (m)	At Azim (deg)	DLS (deg/ 10m)	Srvy tool type	Tool qual type
1	1957.51	59.83	355.70	0.00	1178.14	1382.83	1387.57	-62.45	1388.97	357.42	0.00	TIP	-
2	1996.55	57.23	346.48	39.04	1198.55	1416.06	1420.41	-67.56	1422.02	357.28	2.12	MWD	6-axis
3	2013.81	55.78	347.88	17.26	1208.08	1430.40	1434.45	-70.76	1436.19	357.18	1.08	MWD	6-axis
4	2043.39	55.72	344.56	29.58	1224.73	1454.72	1458.19	-76.58	1460.20	356.99	0.93	MWD	6-axis
5	2071.65	55.31	342.51	28.26	1240.73	1477.76	1480.53	-83.18	1482.86	356.78	0.62	MWD	6-axis
6	2100.42	54.31	339.51	28.77	1257.31	1500.83	1502.76	-90.83	1505.50	356.54	0.92	MWD	6-axis
7	2129.98	53.14	336.66	29.56	1274.80	1523.96	1524.86	-99.71	1528.12	356.26	0.87	MWD	6-axis
8	2158.76	52.62	336.39	28.78	1292.17	1546.07	1545.91	-108.86	1549.74	355.97	0.20	MWD	6-axis
9	2187.60	52.02	336.16	28.84	1309.80	1568.04	1566.81	-118.04	1571.25	355.69	0.22	MWD	6-axis
10	2216.23	53.57	337.03	28.63	1327.11	1590.02	1587.73	-127.09	1592.81	355.42	0.59	MWD	6-axis
11	2245.01	53.13	336.69	28.78	1344.29	1612.30	1608.97	-136.17	1614.72	355.16	0.18	MWD	6-axis
12	2274.45	52.78	336.77	29.44	1362.03	1634.97	1630.55	-145.45	1637.03	354.90	0.12	MWD	6-axis
13	2303.44	53.50	337.36	28.99	1379.42	1657.38	1651.91	-154.49	1659.12	354.66	0.30	MWD	6-axis
14	2332.31	53.54	337.73	28.87	1396.58	1679.85	1673.37	-163.36	1681.32	354.42	0.10	MWD	6-axis
15	2360.71	53.49	336.74	28.40	1413.47	1701.93	1694.42	-172.19	1703.15	354.20	0.28	MWD	6-axis
16	2389.60	53.68	335.85	28.89	1430.62	1724.31	1715.71	-181.54	1725.29	353.96	0.26	MWD	6-axis
17	2418.63	53.23	335.53	29.03	1447.90	1746.69	1736.96	-191.14	1747.45	353.72	0.18	MWD	6-axis
18	2438.02	52.65	335.37	19.39	1459.59	1761.52	1751.04	-197.57	1762.15	353.56	0.31	MWD	6-axis
19	2460.00	52.10	335.20	21.98	1473.01	1778.19	1766.85	-204.85	1778.69	353.39	0.26	Bit	Projection

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Company: Esso Australia Ltd.

Well: WTN W33A

Field: Tuna

Rig: Pool Rig 453

State: Victoria

GeoVision

1:500 True Vertical Depth  
Recorded Mode Log

IDEAL services from Anadrill

Schlumberger

