

Rig: **ISDL 453** State: **Victoria**

Rig: ISDL 453 Field: Tuna Location: Bass Strait Well: TNA A-10A ST Company: ESSO Australia Ltd Pty	GeoVISION* Density Neutron 1:500 True Vertical Depth Recorded Mode Data						
	Location	Total depth: 2243.0 m			Elevation	K.B. 31.32 m	
		Spud date: 5-Oct-2002				G.L. -59.4 m	
		Runs: 2 To 2				D.F. 31.32 m	
		Permanent datum: Mean Sea Level			Elev.: 59.4 m		
		Log measured from: Drill Floor			31.32 m above Perm. datum		
	Depth reference: Driller's Depth						
	API serial no.		Y = 5,774,222.491 m N X = 624,224.990 m E		Longitude		Latitude
					E 148° 25' 5.413"		S 38° 10' 16.394"
	Depth logged: 1948.9 m To 2231.4 m		Mag decl: 13.166 deg.		Other services:		
Date logged: 15-Oct-02 To 16-Oct-02		Mag dip: -68.686 deg.		D & I, Directional Drilling			
Bore hole record				Casing record			
Hole size	from	to	Size	Density	from	to	
8 1/2 in.	661.1 m	2243.0 m	20 in.	285 lbm/m	0.0 m	155.0 m	
			13 3/8 in.	226 lbm/m	0.0 m	647.0 m	
			9 5/8 in.	154 lbm/m	617.0 m	661.1 m	
Mud record			Borehole deviation record				
Type	from	to	Min	Max	from	to	
KCl/PHPA/Glycol	661.1 m	2243.0 m	37.4 deg.	42.5 deg.	646.4 m	1015.5 m	
			42.5 deg.	60.9 deg.	1015.5 m	1218.5 m	
			60.9 deg.	68.7 deg.	1218.5 m	1796.9 m	
			54.1 deg.	68.7 deg.	1796.9 m	2243.0 m	
Surface equipment		Software record					
Unit	OLU-FB-924	IDEAL Wis	ID7_OC_02r				
Depth system	PDA-AB	SPM	HSPM7_OC_10a				
		LWD	See Toolsketch				
		MWD	See Toolsketch				

# Bit Run Summary

[illegible]

Type	KCl/Phpa/Glycol										
Mud weight	lb/gal	10.25									
Solids	%	9.4									
Chlorides	mg/L	40,500									
Rm	ohm-m@°C	0.125@21.5									
Rmf	ohm-m@°C	0.231@22.0									
Rmc	ohm-m@°C	0.104@20.8									
Potassium	%	4									
<b>Environmental data</b>											
<b>GR</b>											
Mud weight	lb/gal	10.25									
Bit size	in.	8.5									
<b>Resistivity</b>											
<b>Neutron porosity</b>											
Hole Size	in.	8.5									
Mud weight	lb/gal	10.25									
Temperature	°C	68.5									
Mud salinity	ppk	66.825									
Formation salinity											
Recording rate 1	SEC	10									
Recording rate 2	SEC	10									
Filtering GR		3 pt									
Filtering density		3 pt									
Filtering Neutron		3 pt									
Company representative	B. Steel	B. Woodward									
Anadrill personnel	L. Bon	J. Dolan	K. Handley								

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OTHER SERVICES FOR RUN2 D & I Directional Drilling	OTHER SERVICES FOR RUN	OTHER SERVICES FOR RUN
REMARKS: RUN NUMBER 2 All data presented is from tool memory.  GR corrected for mud weight, tool and bit size.  GVR6* resistivity is corrected for the bit size, mud resistivity and borehole temperature.  Bottom quadrant density is presented. Neutron porosity is calculated with a limestone matrix and is corrected for the bit size, borehole salinity, temperature and mud hydrogen index.  Mud type is water-based KCl/PHPA/Glycol. Barite was present in the mud system.	REMARKS: RUN NUMBER	REMARKS: RUN NUMBER

GVR6\* downhole software: 6.1B14  
ADN6\* downhole software: 6.2B08

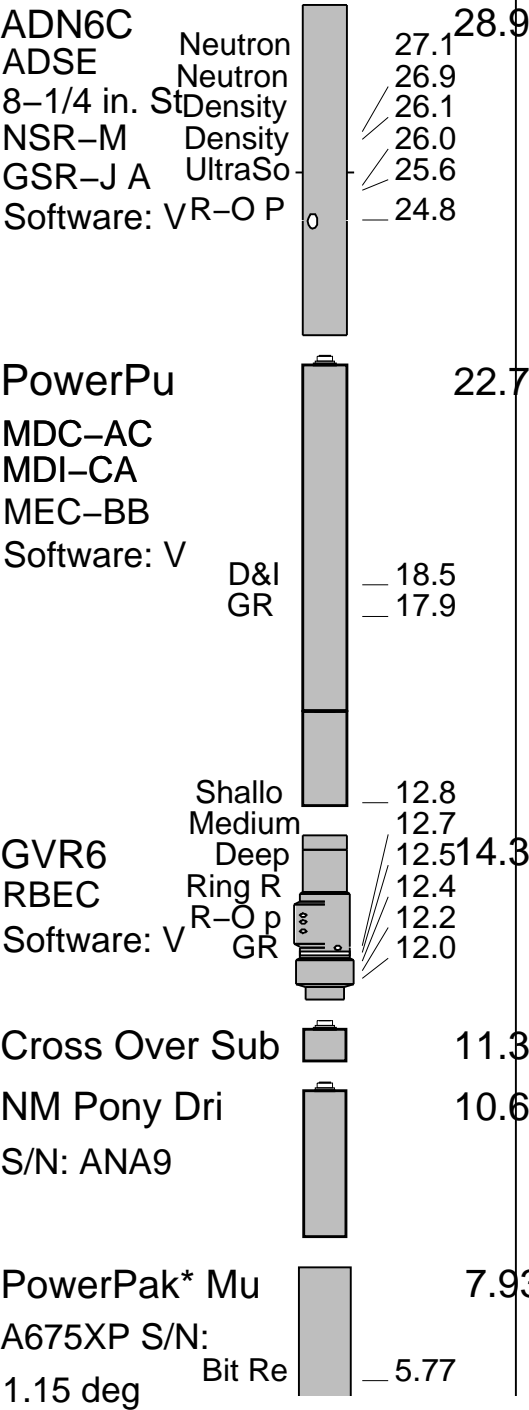
EQUIPMENT DESCRIPTION

RUN2


RUN

RUN

DOWNHOLE EQ



1.15 deg Bit Re 5.77



Security T  
XS30D S/N:  
MAXIMUM STRING DI  
ALL LENGTHS I

## True Vertical Depth Log

IDEAL Version: ID7\_0C\_02  
IDF

RAB IDEAL Version: ID7\_0C\_02 MWD\_10 IDEAL Version: ID7\_0C\_02  
ADN IDEAL Version: ID7\_0C\_02

Format: TNA A-10A GeoVISION Density Neutron Vertical Scale: 1:500 Graphics File Created: 18-Oct-2002 06:27

## Parameters

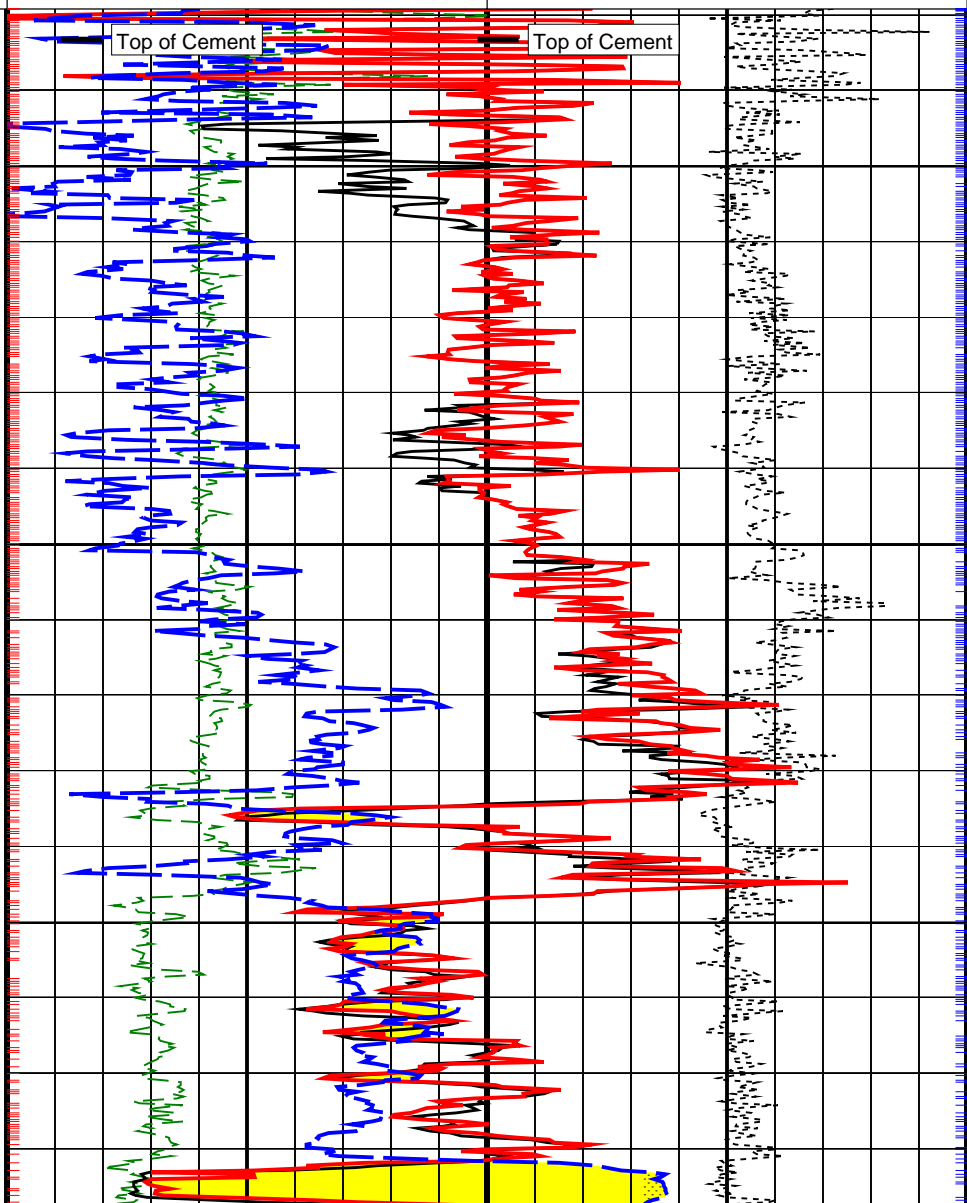
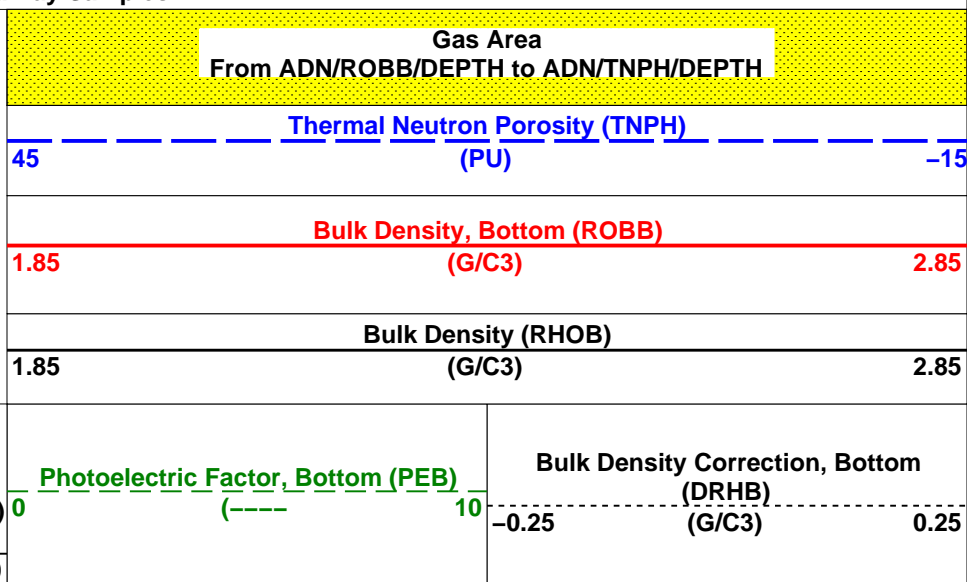
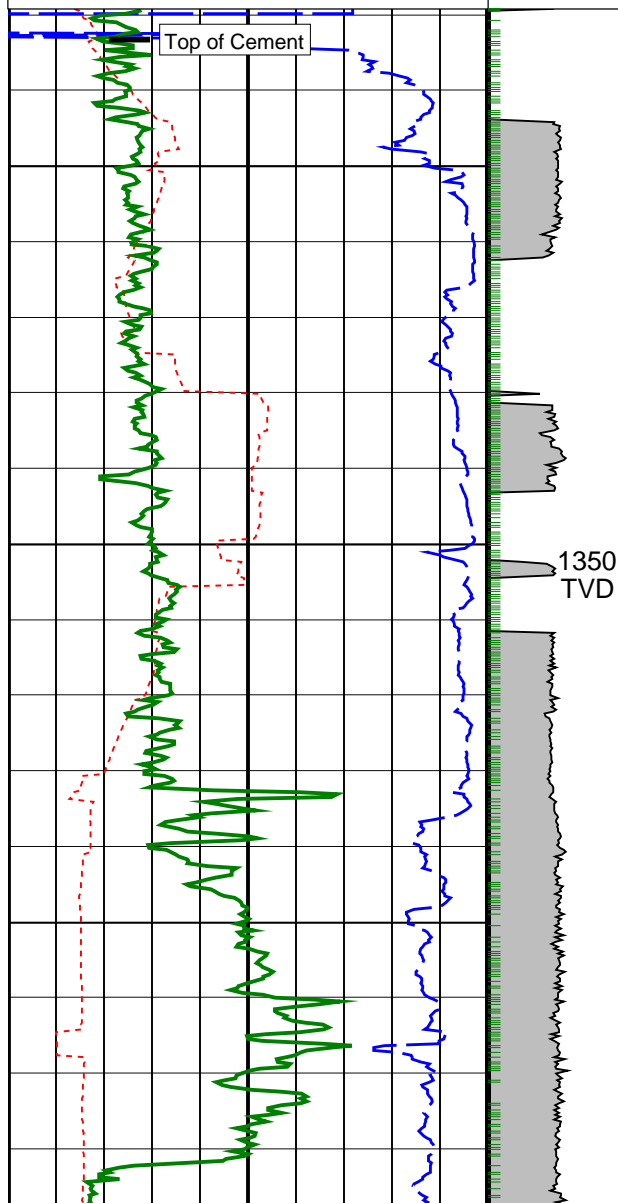
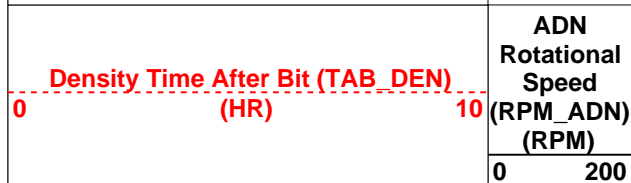
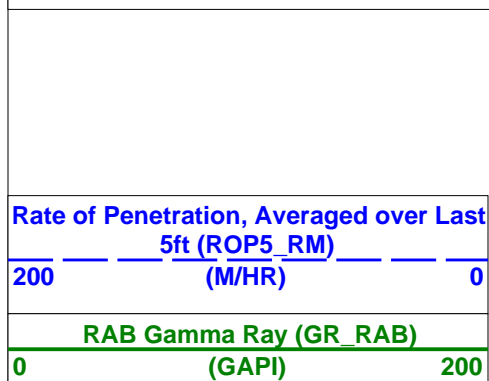
DLIS Name	Description	Value
ADN_COLLAR_STR	ADN Collar Type String	ADDC-AA: Slick
ADN_STAB_STR	ADN Stabilizer Type String	None
AVE_ADN	ADN/Array Channels: perform averaging(RM) :	YES
A_DHS	ADN Down Hole Software Version String	V6.2B
BHA_COEF_VER	RAB: BHA Coef Generator Version	62012.0
BHT_RM	Bottom Hole Temperature (RM)	158.0 degF
BSAL_RM	Mud Salinity (RM)	66.825 ppk
BS_RM	Bit Size (RM)	8.500 in
DEVI	Well Section Deviation	49.540 deg
DHS_VERSION	RAB: DownHole Software Version	6.101
DO	Depth Offset	0.0 m
ENVCOR	Neutron Quadrant Processing: Environmental Correction?	YES
GRDC	Grid corr angle	-0.880 deg
LITHO_TYPE_ADN	Lithology (RM)	LIME
MST_RM	Mud Sample temperature (RM)	70.700 degF
MW_RM	Mud Weight (RM)	10.250 lbm/gal
OBM	RAB: Oil base Mud	NO
OBMF_RM	Oil Based Mud	NO
RAB_TEMP_SELECT	RAB Temperature Selection	MEAS
READOUT_PORT_MP	RAB: ROP to Bit Face Distance	12.280 m
RHOF_RM	Mud Filtrate Density (RM)	1.000 g/cm3
RHOM_RM	Matrix density (RM)	2.710 g/cm3
RMS_RM	Resistivity of Mud Sample (RM)	0.125 ohm.m
RWS_RM	Resistivity of Connate Water (RM)	1.000 ohm.m
SHT_RM	Surface Hole Temperature (RM)	62.600 degF
SSIZ_ADN	ADN Stabilizer Size	8.250 in
STAB	RAB: Run with Stabilizer	YES
TD_RM	Total Measured Depth (RM)	2243.0 m
TOOLTYPE	RAB: Azimuthal Tool	YES
TRPM_RM	Average Tool Rotational Speed	20.000 c/min
TSIZ_ADN	ADN Tool Size	6.750 in
TS_VERSION	RAB: ToolScope Software Version	6.101
TWS_RM	Temperature of Connate Water (RM)	75.000 degF
VER5_ADN	ADN Downhole Software Version	6.200
VRAB6	Rab Tool type (ENP/PILOT)	RAB6_C_SERIES

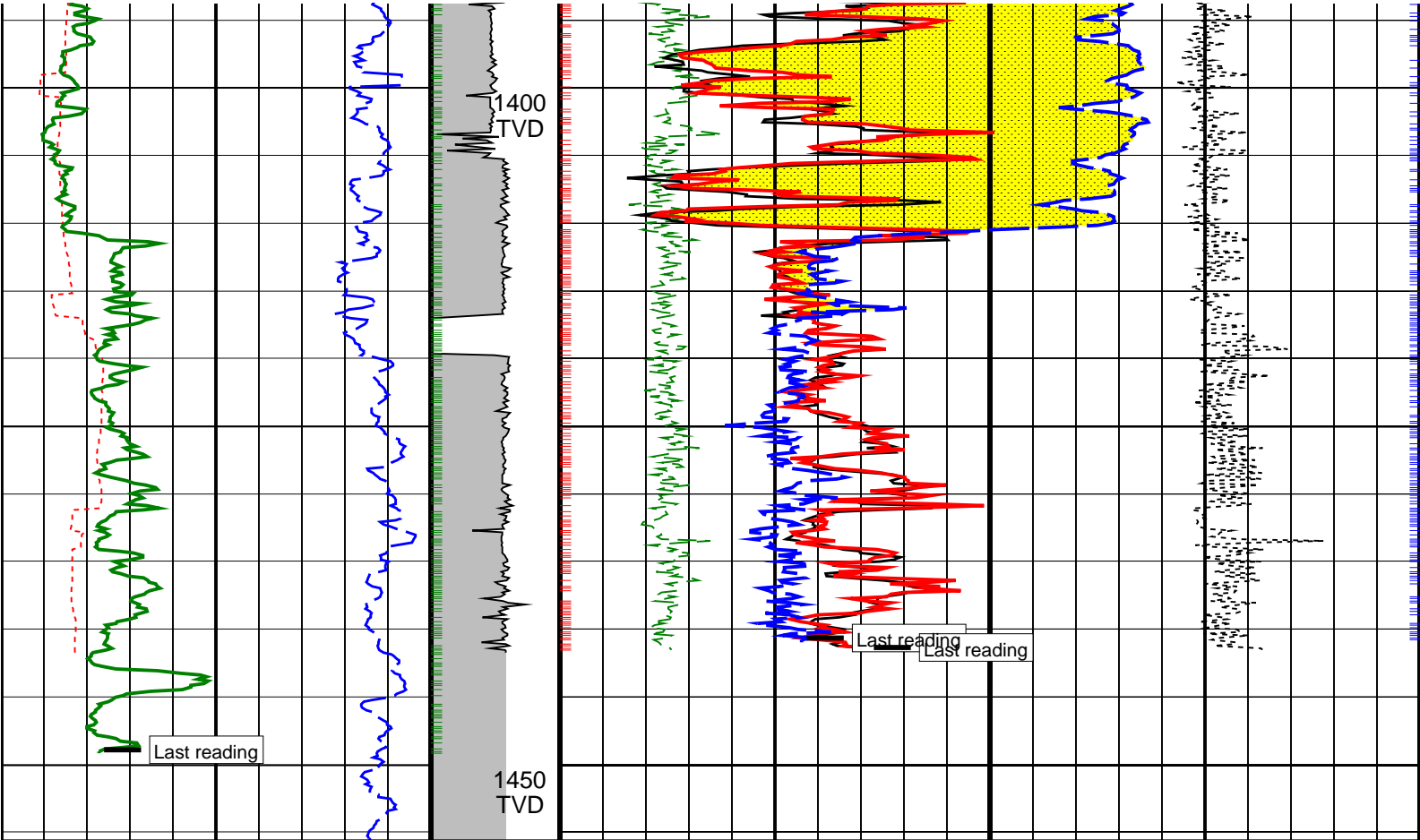
## PIP SUMMARY

┤ Density Ticks, 0.1 ft

Neutron Ticks, 0.1 ft ┤

┤ Gamma Ray Samples





Density Time After Bit (TAB_DEN) (HR)		ADN Rotational Speed (RPM_ADN) (RPM)	Photoelectric Factor, Bottom (PEB) (-----)		Bulk Density Correction, Bottom (DRHB) (G/C3)	
0	10		0	10	-0.25	0.25
RAB Gamma Ray (GR_RAB) (GAPI)		0	Bulk Density (RHOB) (G/C3)		1.85	
0	200		Bulk Density, Bottom (ROBB) (G/C3)		1.85	
Rate of Penetration, Averaged over Last 5ft (ROP5_RM) (M/HR)		200	Thermal Neutron Porosity (TNPH) (PU)		45	
200	0		Gas Area From ADN/ROBB/DEPTH to ADN/TNPH/DEPTH		-15	

PIP SUMMARY	
┤ Density Ticks, 0.1 ft	┤ Neutron Ticks, 0.1 ft
┤ Gamma Ray Samples	

IDEAL Version: ID7_OC_02			
IDF			
RAB	IDEAL Version: ID7_OC_02	MWD_10	IDEAL Version: ID7_OC_02
ADN	IDEAL Version: ID7_OC_02		

True Vertical Depth Log

# 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

ADN6C\* S/N: 289  
 ADDC - AA  
 ADSE - EA  
 Clamp-On Stabilizer  
 NSR-M S/N: A161  
 GSR-J S/N: A2125  
 8.25 - in.  
 Valid

Master: 20-Aug-2002 12:00

## 6.75-in. Azimuthal Density Neutron Calibration




### Density: Magnesium Block

Phase	LS window 3 – Mg CPS			Value	Phase	SS window 1 – Mg CPS			Value	Phase	SS window 3 – Mg CPS			Value
Master				1286	Master				2974	Master				7375
	250.0 (Minimum)	4125 (Nominal)	8000 (Maximum)		700.0 (Minimum)	9350 (Nominal)	18000 (Maximum)			2500 (Minimum)	23750 (Nominal)	45000 (Maximum)		

Master: 20-Aug-2002 12:00

## 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		199.3	Master		1579	Master		4746	
	50.00 (Minimum)	725.0 (Nominal)	1400 (Maximum)	500.0 (Minimum)	4250 (Nominal)	8000 (Maximum)	1500 (Minimum)	15750 (Nominal)	30000 (Maximum)

Master: 20-Aug-2002 12:00

## 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			51.89	Master			125.3	Master			546.5
	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: 20-Aug-2002 12:00

## 6.75-in. Azimuthal Density Neutron Calibration








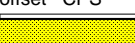
### Density: Water Block Check

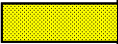


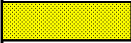




Phase	Long spacing water density G/C3			Value	Phase	Short spacing water density G/C3			Value
Master				1.034	Master				1.130
	1.015 (Minimum)	1.030 (Nominal)	1.045 (Maximum)		1.095 (Minimum)	1.120 (Nominal)	1.145 (Maximum)		



Master: 20-Aug-2002 12:00

## 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			1.102	Master			-0.8340
	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			1.048	Master			-0.9090
	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			1.071	Master			-0.7690
	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			1.107	Master			-0.7220
	0.9000 (Minimum)	1.100 (Nominal)	1.300 (Maximum)		-1.200 (Minimum)	-0.9000 (Nominal)	-0.6000 (Maximum)

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			1.000	Master			-0.8370
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			1.108	Master			-0.7300
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			1.088	Master			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
Master			1.062	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)	

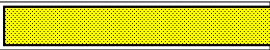
6.75-in. Resistivity At-the-Bit / Equipment Identification							
Primary Equipment:							
Tool Name and Serial Number				GVR6* S/N: 160			
Calibration Status				Valid			

Master: 11-Sep-2002 12:00							
6.75-in. Resistivity At-the-Bit Calibration							
Resistivity: Fixture							
Phase	Ring/T1 factor		Value	Phase	Ring/T2 factor		Value
Master			0.9975	Master			0.9991
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
Master			1.002	Master			0.9983
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
Master			1.006	Master			1.007
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
Master			1.003	Master			1.012
0.9750 (Minimum)	1.000 (Nominal)	1.025 (Maximum)		0.9750 (Minimum)	1.000 (Nominal)	1.025 (Maximum)	
Phase				Phase	BTN deep/T2 factor		Value
Master				Master			1.012
0.9750 (Minimum)	1.000 (Nominal)	1.025 (Maximum)		0.9750 (Minimum)	1.000 (Nominal)	1.025 (Maximum)	

Master: 11-Sep-2002 12:00

6.75-in. Resistivity At-the-Bit Calibration

Gamma Ray: Blanket

Phase	Gamma ray factor			Value
Master				0.8590
	0.7500 (Minimum)	1.000 (Nominal)	1.250 (Maximum)	

ANADRILL

SCHLUMBERGER

Survey report 16-Oct-2002 12:09:07 Page 1 of 3

Client.....: Esso Australia Ltd.

Field.....: Tuna

Well.....: TNA A-10A

Spud date.....: 4-Oct-2002

API number.....:

Last survey date.....: 16-Oct-02

Engineer.....: L. Bon

Total accepted surveys...: 57

MD of first survey.....: 646.50 m

RIG.....: ISDL 453

MD of last survey.....: 2243.00 m

STATE.....: Victoria

----- Survey calculation methods----- Geomagnetic data -----

Method for positions.....: Minimum curvature

Magnetic model.....: BGGM version 2001

Method for DLS.....: Mason &amp; Taylor

Magnetic date.....: 20-Sep-2002

Magnetic field strength...: 1200.29 HCNT

----- Depth reference -----

Magnetic dec (+E/W-).....: 13.17 degrees

Permanent datum.....: Mean Sea Level

Magnetic dip.....: -68.69 degrees

Depth reference.....: Driller's Depth

GL above permanent.....: -59.40 m

----- MWD survey Reference Criteria -----

KB above permanent.....: 31.32 m

Reference G.....: 1000.02 mGal

DF above permanent.....: 31.32 m

Reference H.....: 1200.29 HCNT

Reference Dip.....: -68.69 degrees

Tolerance of G.....: (+/-) 2.50 mGal

Tolerance of H.....: (+/-) 6.00 HCNT

Tolerance of Dip.....: (+/-) 0.45 degrees

----- Platform reference point-----

----- Corrections -----

Latitude (+N/S-).....: -3.05 m

Magnetic dec (+E/W-).....: 13.17 degrees

Departure (+E/W-).....: 0.11 m

Grid convergence (+E/W-).....: -0.88 degrees

Total az corr (+E/W-).....: 14.05 degrees

Azimuth from rotary table to target: 332.28 degrees (Total az corr = magnetic dec - grid conv)

Sag applied (Y/N).....: No degree: 0.00

[(c)2002 Anadrill IDEAL ID7\_OC\_02]

ANADRILL SCHLUMBERGER Survey Report

16-Oct-2002 12:09:07

Page 2 of 3

Seq	Measured	Incl	Azimuth	Course	TVD	Vertical	Displ	Displ	Total	At	DLS	Srvy	Tool
#	depth	angle	angle	length	depth	section	+N/S-	+E/W-	displ	Azim	(deg/	tool	
-	(m)	(deg)	(deg)	(m)	(m)	(m)	(m)	(m)	(deg)	100f)	type	type	
1	646.5	37.39	204.16	0	614.23	-101.72	-136.8	-35.75	138.47	194.65	0	TIP	-
2	661.2	37.68	204.31	14.7	625.89	-107.24	-144.96	-39.43	147.32	195.21	0.63	GYR	-
3	700.49	38.02	219.27	39.29	656.98	-119.38	-165.32	-52.05	170.44	197.48	7.11	MWD	6-axis
4	729	38.66	224.98	28.51	679.35	-125.46	-178.42	-63.91	186.69	199.71	3.85	MWD	6-axis
5	757.82	37.29	233.89	28.82	702.08	-129.42	-189.94	-77.34	202.3	202.15	5.97	MWD	6-axis
6	785.91	37.06	243.45	28.09	724.48	-130.48	-198.74	-91.8	216.2	204.79	6.27	MWD	6-axis
7	814.55	37.96	252.29	28.64	747.22	-128.78	-205.29	-107.92	229.28	207.73	5.8	MWD	6-axis
8	843.56	39.69	259.68	29.01	769.83	-124.45	-209.66	-125.54	241.82	210.91	5.19	MWD	6-axis
9	871.13	40.19	267.56	27.57	790.98	-118.02	-211.62	-143.1	253	214.07	5.62	MWD	6-axis
10	901.08	40.82	274.91	29.95	813.77	-108.61	-211.19	-162.52	264.15	217.58	4.9	MWD	6-axis
11	927.94	40.93	282.75	26.86	834.09	-98.15	-208.5	-179.86	273.13	220.78	5.82	MWD	6-axis
12	956.4	41.73	290.78	28.46	855.48	-85	-203.08	-197.82	281.4	224.25	5.74	MWD	6-axis
13	986.18	42.47	297.76	29.78	877.59	-69.28	-194.87	-216	288.96	227.94	4.85	MWD	6-axis
14	1015.52	42.54	305.13	29.34	899.23	-52.29	-184.55	-232.88	295.34	231.61	5.17	MWD	6-axis
15	1044.86	42.2	312.78	29.34	920.92	-34.16	-172.14	-248.24	300.45	235.26	5.37	MWD	6-axis
16	1073.87	45.34	320.38	29.01	941.88	-14.86	-157.56	-261.98	304.25	238.98	6.43	MWD	6-axis
17	1102.84	49.02	325.14	28.97	961.58	6.08	-140.64	-274.81	307.43	242.9	5.34	MWD	6-axis
18	1131.52	51.38	330.94	28.68	979.94	28.04	-121.95	-286.45	310.25	246.94	5.36	MWD	6-axis
19	1160.5	54.35	336.25	28.98	997.44	51.12	-101.26	-296.7	312.63	251.15	5.44	MWD	6-axis
20	1189.57	58.35	338.23	29.07	1013.55	75.22	-78.95	-306.05	315.43	255.53	4.54	MWD	6-axis

20	1189.57	58.35	338.23	29.07	1013.55	75.22	-78.95	-306.05	315.43	255.53	4.54	MWD	6-axis
21	1218.51	60.94	341.52	28.94	1028.18	99.97	-55.51	-314.63	319.08	259.99	4.05	MWD	6-axis
22	1247.44	64.09	344.91	28.93	1041.53	125.15	-30.94	-322.03	323.34	264.51	4.59	MWD	6-axis
23	1276.26	68.16	347.68	28.82	1053.19	150.71	-5.34	-328.26	328.38	269.07	5.07	MWD	6-axis
24	1304.91	68.17	350.31	28.65	1063.85	176.18	20.76	-333.34	334.29	273.56	2.6	MWD	6-axis
25	1334.11	67.47	350.2	29.2	1074.88	201.9	47.41	-337.91	341.77	277.99	0.74	MWD	6-axis
26	1363.21	66.92	349.8	29.1	1086.15	227.45	73.83	-342.57	351.2	282.16	0.69	MWD	6-axis
27	1391.75	67.53	350.62	28.54	1097.2	252.49	99.76	-347.04	362.06	286.04	1.04	MWD	6-axis
28	1420.36	67.08	350.51	28.61	1108.24	277.55	125.8	-351.37	374.35	289.7	0.49	MWD	6-axis
29	1448.66	68.99	350.9	28.3	1118.83	302.45	151.7	-355.61	387.92	293.1	2.09	MWD	6-axis
30	1477.72	68.34	350.63	29.06	1129.4	328.12	178.41	-359.95	403.21	296.37	0.73	MWD	6-axis

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ANADRILL SCHLUMBERGER Survey Report

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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 (deg)	At Azim (deg)	DLS (100f)	Srvy tool type	Tool qual
31	1506.45	67.61	350.84	28.73	1140.17	353.38	204.7	-364.24	419.42	299.33	0.8	MWD	6-axis
32	1535.61	68.97	350.83	29.16	1150.96	379.07	231.44	-368.56	436.92	302.13	1.42	MWD	6-axis
33	1565.41	68.26	350.58	29.8	1161.82	405.39	258.83	-373.04	455.87	304.75	0.76	MWD	6-axis
34	1594.42	67.8	350.83	29.01	1172.68	430.92	285.38	-377.38	475.07	307.1	0.54	MWD	6-axis
35	1623.51	67.52	350.94	29.09	1183.74	456.42	311.95	-381.65	494.93	309.26	0.31	MWD	6-axis
36	1652.59	68.41	350.68	29.08	1194.64	481.98	338.55	-385.95	515.5	311.26	0.97	MWD	6-axis
37	1681.35	68.05	350.92	28.76	1205.31	507.3	364.92	-390.22	536.43	313.08	0.45	MWD	6-axis
38	1710.58	67.88	350.84	29.23	1216.28	532.98	391.67	-394.52	558.15	314.79	0.19	MWD	6-axis
39	1739.39	67.67	350.96	28.81	1227.18	558.25	418.01	-398.73	579.97	316.35	0.25	MWD	6-axis
40	1767.87	67.3	351.21	28.48	1238.08	583.16	444	-402.81	601.83	317.78	0.47	MWD	6-axis
41	1796.96	68.71	351.25	29.09	1248.98	608.67	470.65	-406.92	624.56	319.15	1.48	MWD	6-axis
42	1825.58	67.9	351.27	28.62	1259.56	633.82	496.94	-410.96	647.28	320.41	0.86	MWD	6-axis
43	1854.31	67.69	350.38	28.73	1270.41	659.03	523.2	-415.21	670.39	321.56	0.9	MWD	6-axis
44	1883.82	67.24	350.44	29.51	1281.72	684.94	550.07	-419.75	694.42	322.65	0.47	MWD	6-axis
45	1912.74	68.05	348.78	28.92	1292.72	710.47	576.38	-424.57	718.39	323.62	1.83	MWD	6-axis
46	1941.53	67.75	348.8	28.79	1303.55	736.04	602.54	-429.76	742.65	324.5	0.32	MWD	6-axis
47	1970.81	67.57	348.94	29.28	1314.68	762	629.12	-434.98	767.43	325.34	0.23	MWD	6-axis
48	1999.66	67.07	349.15	28.85	1325.81	787.49	655.25	-440.04	791.89	326.12	0.57	MWD	6-axis
49	2034.43	62.98	349.79	34.77	1340.49	817.59	686.23	-445.8	820.94	326.99	3.62	MWD	6-axis
50	2063.19	57.85	350.62	28.76	1354.68	841.38	710.87	-450.06	844	327.66	5.49	MWD	6-axis
51	2092.26	54.07	349.1	29.07	1370.95	864.34	734.58	-454.3	866.36	328.27	4.18	MWD	6-axis
52	2121.17	54.36	349.19	28.91	1387.86	886.78	757.61	-458.71	888.32	328.81	0.32	MWD	6-axis
53	2150	55.5	349.25	28.83	1404.42	909.35	780.79	-463.13	910.49	329.33	1.21	MWD	6-axis
54	2179.27	56.64	349.55	29.27	1420.76	932.56	804.66	-467.59	933.35	329.84	1.22	MWD	6-axis
55	2208.3	56.7	349.39	29.03	1436.71	955.73	828.51	-472.02	956.24	330.33	0.15	MWD	6-axis
56	2224.38	57.39	349.38	16.08	1445.46	968.63	841.77	-474.51	969.01	330.59	1.31	MWD	6-axis
57	2243	57.75	349.37	18.62	1455.44	983.65	857.21	-477.41	983.91	330.89	0.59	MWD	-

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Company: **ESSO Australia Ltd Pty**

**Schlumberger**

Well: **TNA A-10A ST**

Field: **Tuna**

Rig: **ISDL 453**

State: **Victoria**

**GeoVISION\* Density Neutron  
1:500 True Vertical Depth  
Recorded Mode Data**

