

State: **Victoria**

Rig: ISDL 453 Field: Tuna Location: Bass Strait Well: TNA A-10A ST Company: ESSO Australia Ltd Pty	GeoVISION* Resistivity 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	
KCI/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_0C_02r							
Depth system		PDA-AB		SPM		HSPM7_0C_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									
Environmental data											
GR											
Mud weight	lb/gal	10.25									
Bit size	in.	8.5									
Resistivity											
Neutron porosity											
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								

<p style="text-align: center;">DISCLAIMER</p> <p>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.</p>		
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

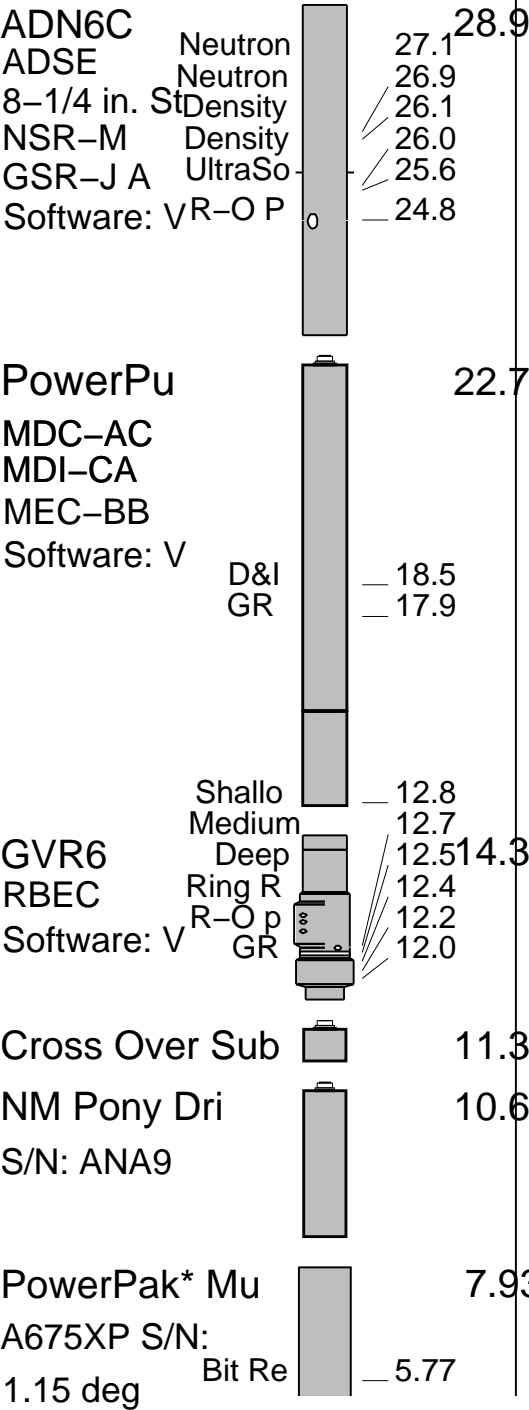
EQUIPMENT DESCRIPTION

RUN2


RUN

RUN

DOWNHOLE EQ



1.15 deg Bit Re 5.77



Security T 0.00 0.24

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

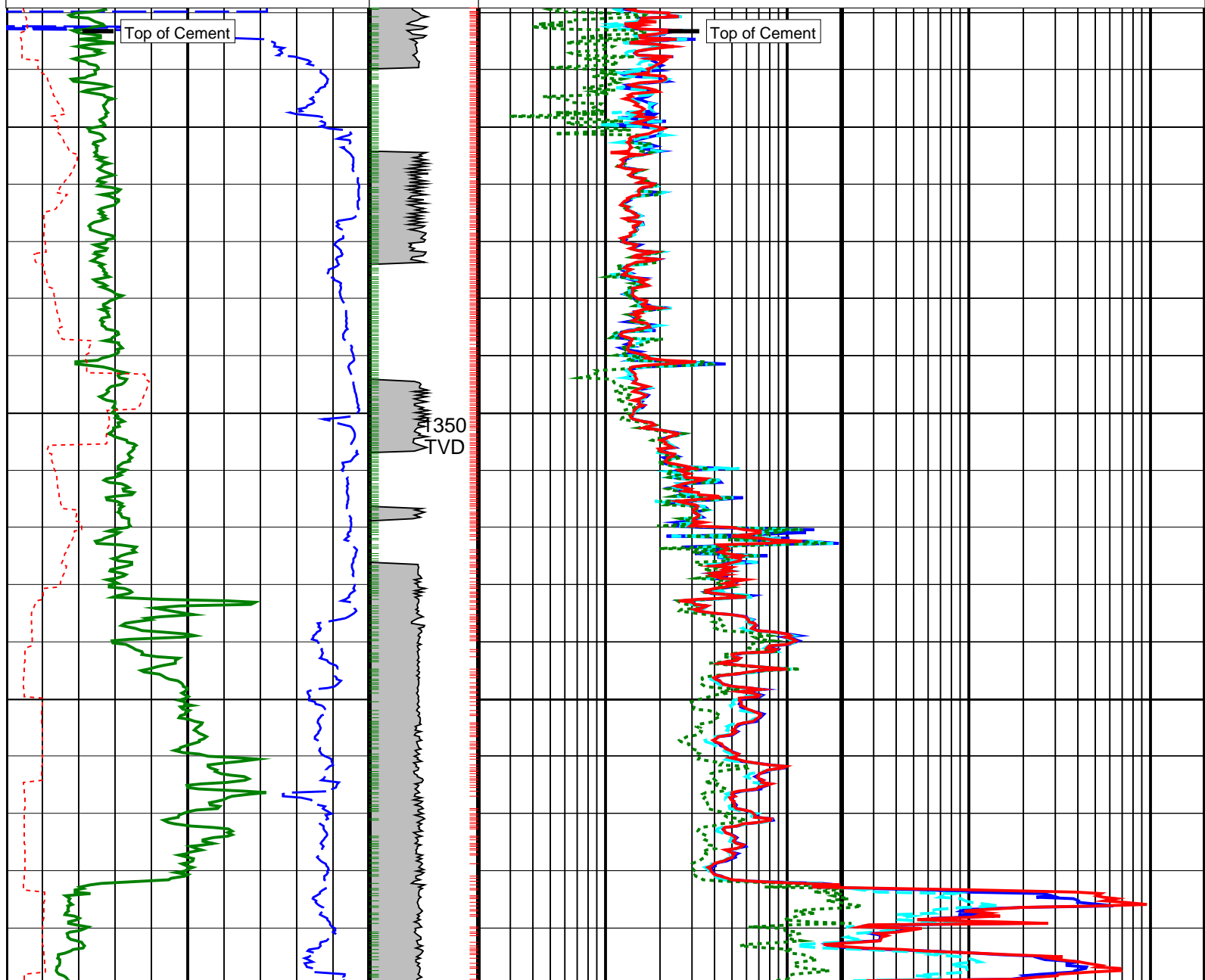
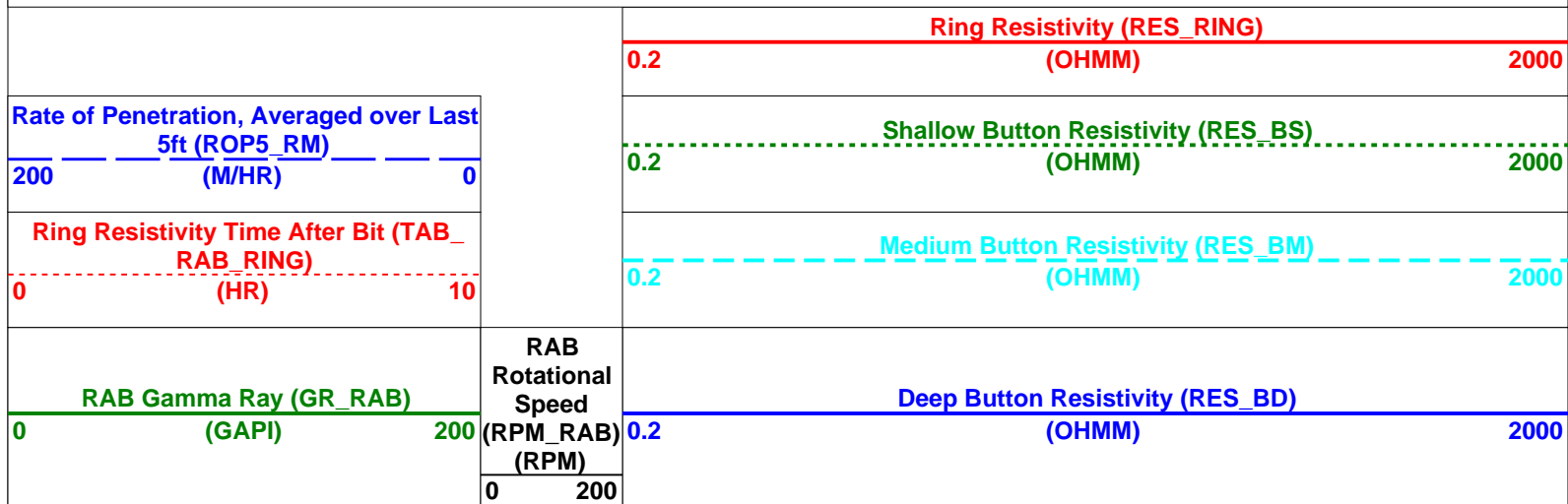
Format: TNA A-10A GeoVISION Resistivity Vertical Scale: 1:500 Graphics File Created: 18-Oct-2002 06:27

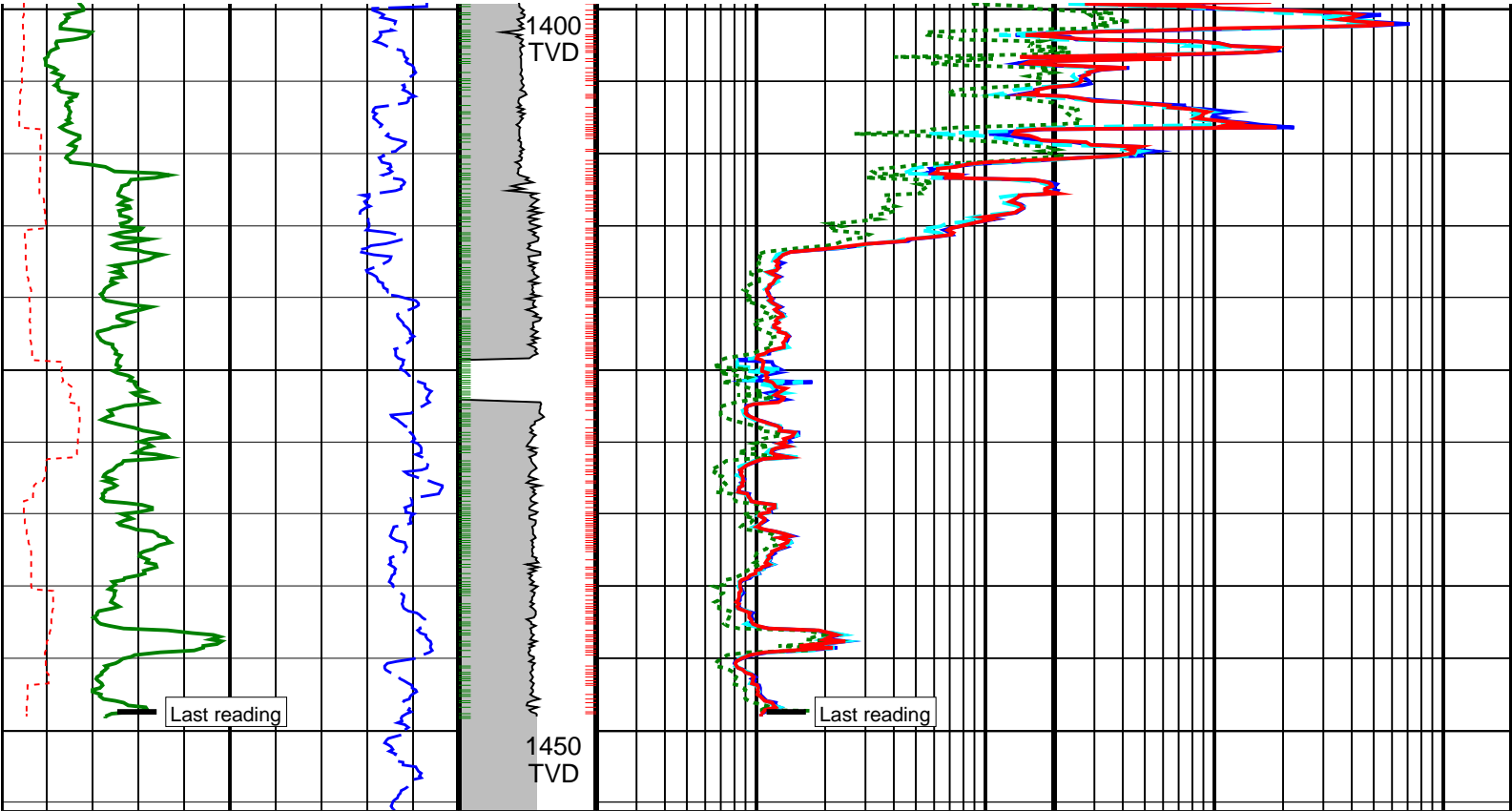
Parameters

DLIS Name	Description	Value
BDBHCA	RAB: Button Deep Borehole A Factor	0.004
BDBHCB	RAB: Button Deep Borehole B Factor	0.000
BHA_COEF_VER	RAB: BHA Coef Generator Version	62012.0
BITBHCA	RAB: Bit A Borehole Factor	0.058
BITBHCB	RAB: Bit B Borehole Factor	0.000
BIT_K_FACTOR	RAB: Bit K Factor	14.966
BMBHCA	RAB: Button Medium Borehole A Factor	0.023
BMBHCB	RAB: Button Medium Borehole B Factor	0.000
BSBHCA	RAB: Button Shallow Borehole A Factor	0.022
BSBHCB	RAB: Button Shallow Borehole B Factor	0.000
BS_RM	Bit Size (RM)	8.500 in
BUT_KIMP_A	RAB: Button Impedance Coeff A	0.000
BUT_KIMP_B	RAB: Button Impedance Coeff B	0.000
DBUTTON_K_FACTOR	RAB: Button Deep K factor	0.005
DHS_VERSION	RAB: DownHole Software Version	6.101
DO	Depth Offset	0.0 m
GRDC	Grid corr angle	-0.880 deg
MBUTTON_K_FACTOR	RAB: Button Medium K Factor	0.005
MST_RM	Mud Sample temperature (RM)	70.700 degF
MW_RM	Mud Weight (RM)	10.250 lbm/gal
OBM	RAB: Oil base Mud	NO
RABEC	RAB: Resistivity Env-Cor	YES
RAB_TEMP_SELECT	RAB Temperature Selection	MEAS
READOUT_PORT_MP	RAB: ROP to Bit Face Distance	12.280 m
RINGBHCA	RAB: Ring Borehole A Factor	0.159
RINGBHCB	RAB: Ring Borehole B Factor	0.000
RING_KIMP_A	RAB: Ring Impedance Coeff A	0.000
RING_KIMP_B	RAB: Ring Impedance Coeff B	0.000
RING_K_FACTOR	RAB: Ring K Factor	0.153
RMS_RM	Resistivity of Mud Sample (RM)	0.125 ohm.m
SBUTTON_K_FACTOR	RAB: Button Shallow K Factor	0.007
STAB	RAB: Run with Stabilizer	YES
TOOLTYPE	RAB: Azimuthal Tool	YES
TS_VERSION	RAB: ToolScope Software Version	6.101
VRAB6	Rab Tool type (ENP/PILOT)	RAB6_C_SERIES

PIP SUMMARY

├ Gamma Ray Samples
└ Ring Samples





RAB Gamma Ray (GR_RAB)		RAB Rotational Speed (RPM_RAB) (RPM)	Deep Button Resistivity (RES_BD)	
0	200		0.2	2000
(GAPI)		0	200	(OHMM)
Ring Resistivity Time After Bit (TAB_RAB_RING)			Medium Button Resistivity (RES_BM)	
0	10		0.2	2000
(HR)			(OHMM)	
Rate of Penetration, Averaged over Last 5ft (ROP5_RM)			Shallow Button Resistivity (RES_BS)	
200	0		0.2	2000
(M/HR)			(OHMM)	
			Ring Resistivity (RES_RING)	
			0.2	2000
			(OHMM)	

PIP SUMMARY	
└ Gamma Ray Samples	
└ Ring Samples	

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		
True Vertical Depth Log			

6.75-in. Azimuthal Density Neutron / Equipment Identification	
Primary Equipment:	ADN6C* S/N: 289
Tool Name and Serial Number	ADDC - AA
Collar Type and Serial Number	ADSE - EA
Chassis Type and Serial Number	Clamp-On Stabilizer
Stabilizer Type and Serial Number	NSR-M S/N: A161
Neutron Logging Source	

Chassis Type and Serial Number
Stabilizer Type and Serial Number
Neutron Logging Source
Density Logging Source
Stabilizer Size
Calibration Status

ADSE – EA
Clamp-On Stabilizer
NSB-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	4125	8000		700.0	9350	18000		2500	23750	45000
	(Minimum)	(Nominal)	(Maximum)		(Minimum)	(Nominal)	(Maximum)		(Minimum)	(Nominal)	(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	725.0	1400		500.0	4250	8000		1500	15750	30000
	(Minimum)	(Nominal)	(Maximum)		(Minimum)	(Nominal)	(Maximum)		(Minimum)	(Nominal)	(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	82.50	150.0		40.00	220.0	400.0		150.0	825.0	1500
	(Minimum)	(Nominal)	(Maximum)		(Minimum)	(Nominal)	(Maximum)		(Minimum)	(Nominal)	(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)			
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		

(Minimum)	(Nominal)	(Maximum)	(Minimum)	(Nominal)	(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	Phase	M0/T1 factor	Value			
Master		0.9975	Master		0.9991	Master		1.001			
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		1.002	Master		0.9983	Master		0.9994			
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		1.006	Master		1.007	Master		1.002			
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		1.003	Master		1.012	Master		1.012			
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: 11-Sep-2002 12:00											
6.75-in. Resistivity At-the-Bit Calibration											
Gamma Ray: Blanket											
Phase	Gamma ray factor							Value			
Master								0.8590			

Master			0.8590
0.7500 (Minimum)		1.000 (Nominal)	1.250 (Maximum)

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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.....: BGM version 2001
Method for DLS.....: Mason & 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
KB above permanent.....: 31.32 m
DF above permanent.....: 31.32 m
----- MWD survey Reference Criteria -----
Reference G.....: 1000.02 mGal
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

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ANADRILL SCHLUMBERGER Survey Report

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Seq #	Measured depth (m)	Incl angle (deg)	Azimuth (deg)	Course length (m)	TVD depth (m)	Vertical section (m)	Displ +N/S- (m)	Displ +E/W- (m)	Displ Total (m)	At Azim (deg)	DLS (deg/100f)	Srvy tool type	Tool qual
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
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

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 (deg)	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**

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

Field: **Tuna**

Rig: **ISDL 453**

State: **Victoria**

Schlumberger

**GeoVISION* Resistivity
1:500 True Vertical Depth
Recorded Mode Data**

