

Esso Australia Ltd.

WTN W33A

Tuna

Pool Rig 453 State: **Victoria**

<div>Schlumberger</div>						VISION Density Neutron 1:200 True Vertical Depth Recorded Mode Log							
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									
		MWMD		See toolsketch		IDEAL services from Anadrill							

DISCLAIMER

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 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

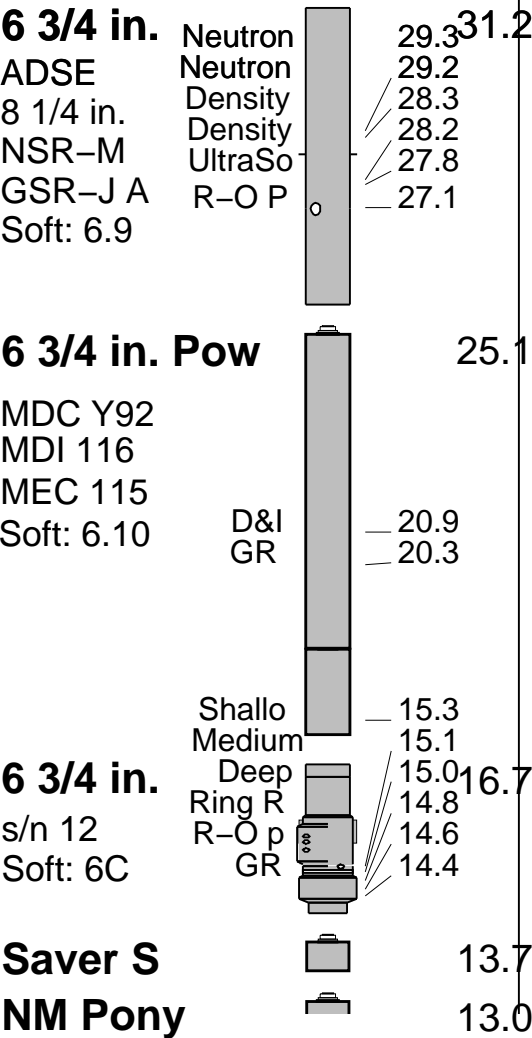
EQUIPMENT DESCRIPTION

RUN1

RUN

RUN

DOWNHOLE EQ



Environmental data

GR										
Mud weight	ppg	10.5								
Bit size	in.	8.5								
Resistivity										
Neutron porosity										
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: ADNDetailLog Vertical Scale: 1:200

Graphics File Created: 04-May-2002 19:56

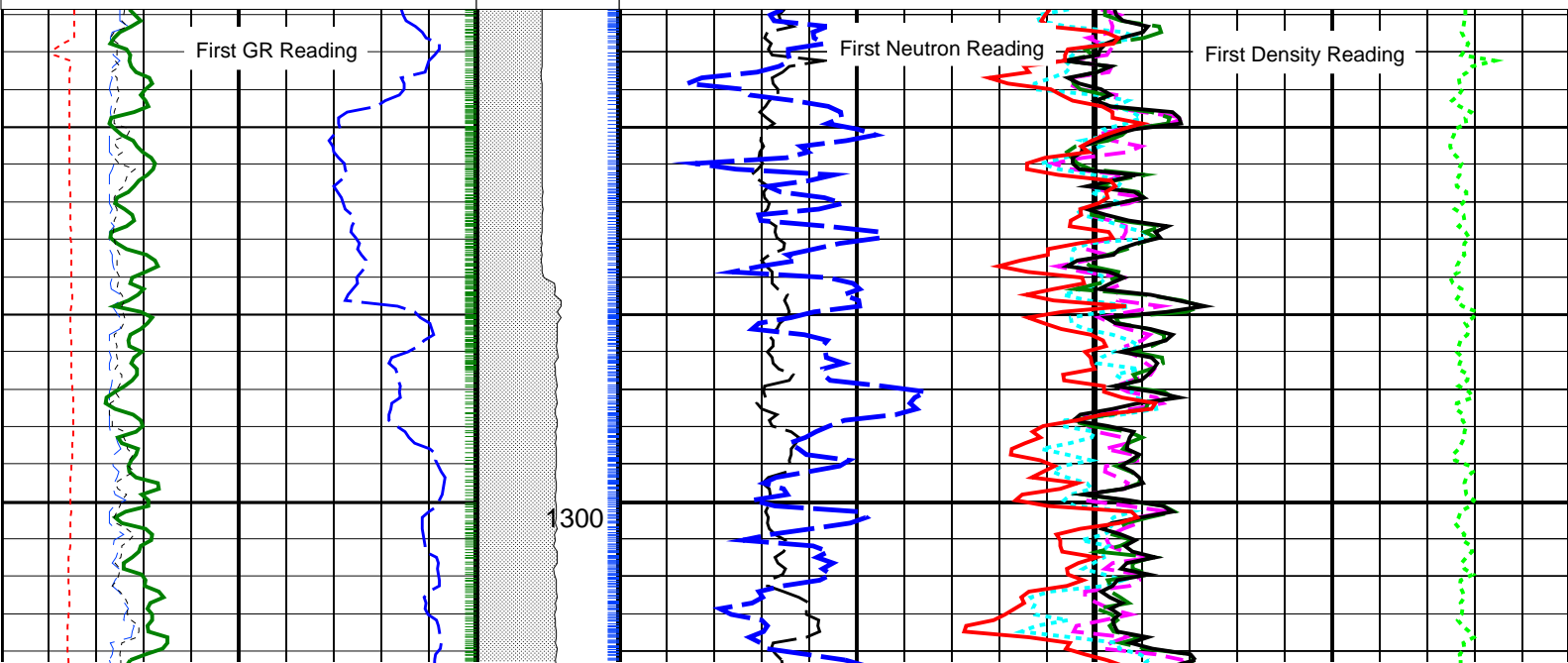
Parameters
DLIS Name
Description
Value

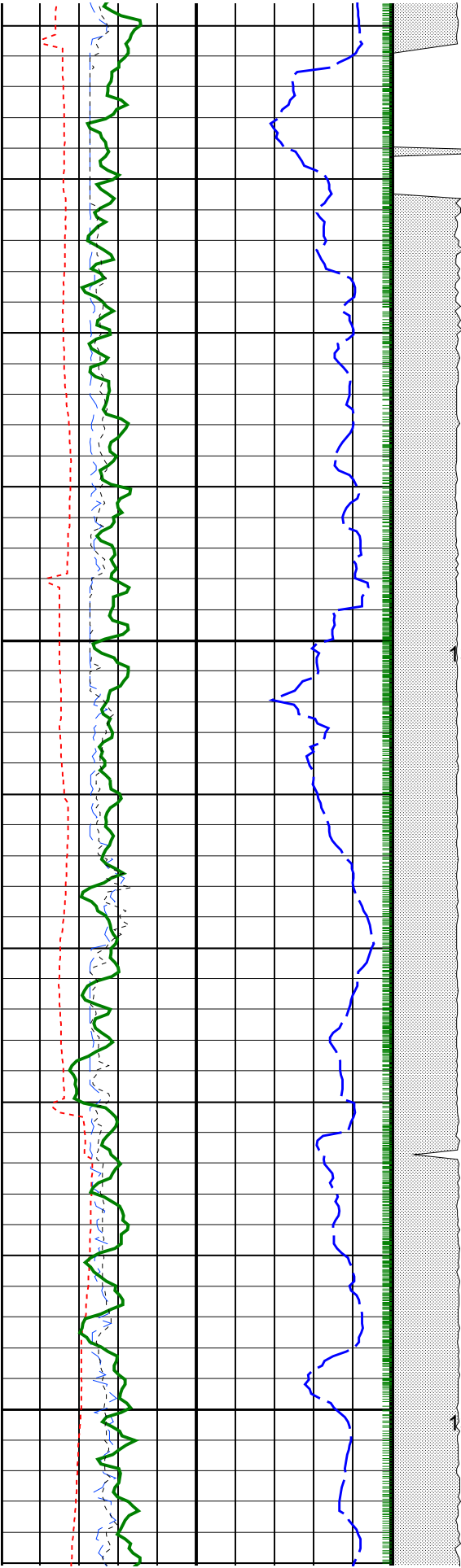
	LWD RM: Generate techlog only?	0	
	LWD RM: Log direction	DOWN	
	LWD RM: Default directory	D:\users\ideal\fm\Clients\ESSO\WTN-W33A\LWD001\	
	LWD RM: Flush depth streams?	YES	
	RAB: Button Sleeve Diameter	RAB6: 8 1/8 IN	
	LWD RM: Depth file name	DEPTH	
	RAB: Stabilizer Diameter	RAB6: 8.25-8.5 IN	
	LWD 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	
BHA_COEF_VER	RAB: BHA Coef Generator Version	-999.25	
BHT_RM	Bottom Hole Temperature (RM)	225	DEGF
BSAL_RM	Mud Salinity (RM)	0	PPK
BS_RM	Bit Size (RM)	8.5	IN
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	
MST_RM	Mud Sample temperature (RM)	75	DEGF
MW_RM	Mud Weight (RM)	10	LB/G
OBM	RAB: Oil base Mud	NO	
OBF_RM	Oil Based Mud	NO	
PP_RM	ADN: Porosity Processing for each bank :	YES	
RAB_TEMP_SELECT	RAB Temperature Selection	MEASURED	
READOUT_PORT_MP	RAB: ROP to Bit Face Distance	14.69	M
RHOF_RM	Mud Filtrate Density (RM)	1	G/C3
RHOM_RM	Matrix density (RM)	2.71	G/C3
RMS_RM	Resistivity of Mud Sample (RM)	1	OHMM
RWS_RM	Resistivity of Connate Water (RM)	1	OHMM
SHT_RM	Surface Hole Temperature (RM)	75	DEGF
SSIZ_ADN	ADN Stabilizer Size	8	IN
STAB	RAB: Run with Stabilizer	YES	
STOH	ADN Density Top of Hole Sector (Left Boundary):	SECTOR_0	
TD_RM	Total Measured Depth (RM)	3048	M
TFF_OFFSET_ADN	ADN Time Frame File Time Offset	0	S

TD_RM	Total Measured Depth (RM)	3048	M
TFF_OFFSET_ADN	ADN Time Frame File Time Offset	0	S
TOOLTYPE	RAB: Azimuthal Tool	YES	
TRPM_RM	Average Tool Rotational Speed	20	RPM
TSIZ_ADN	ADN Tool Size	6.75	IN
TS_VERSION	RAB: ToolScope Software Version	-999.25	
TWS_RM	Temperature of Connate Water (RM)	75	DEGF
USMIN_RM	ADN:Minimum Ultrasonic standoff (RM)	0.3	IN
VERS_ADN	ADN Downhole Software Version	-1	
VRAB6	Rab Tool type (ENP/PILOT)	RAB6_C_SERIES	

PIP SUMMARY		
+ Neutron Samples		Density Samples
+ Gamma Ray Samples		

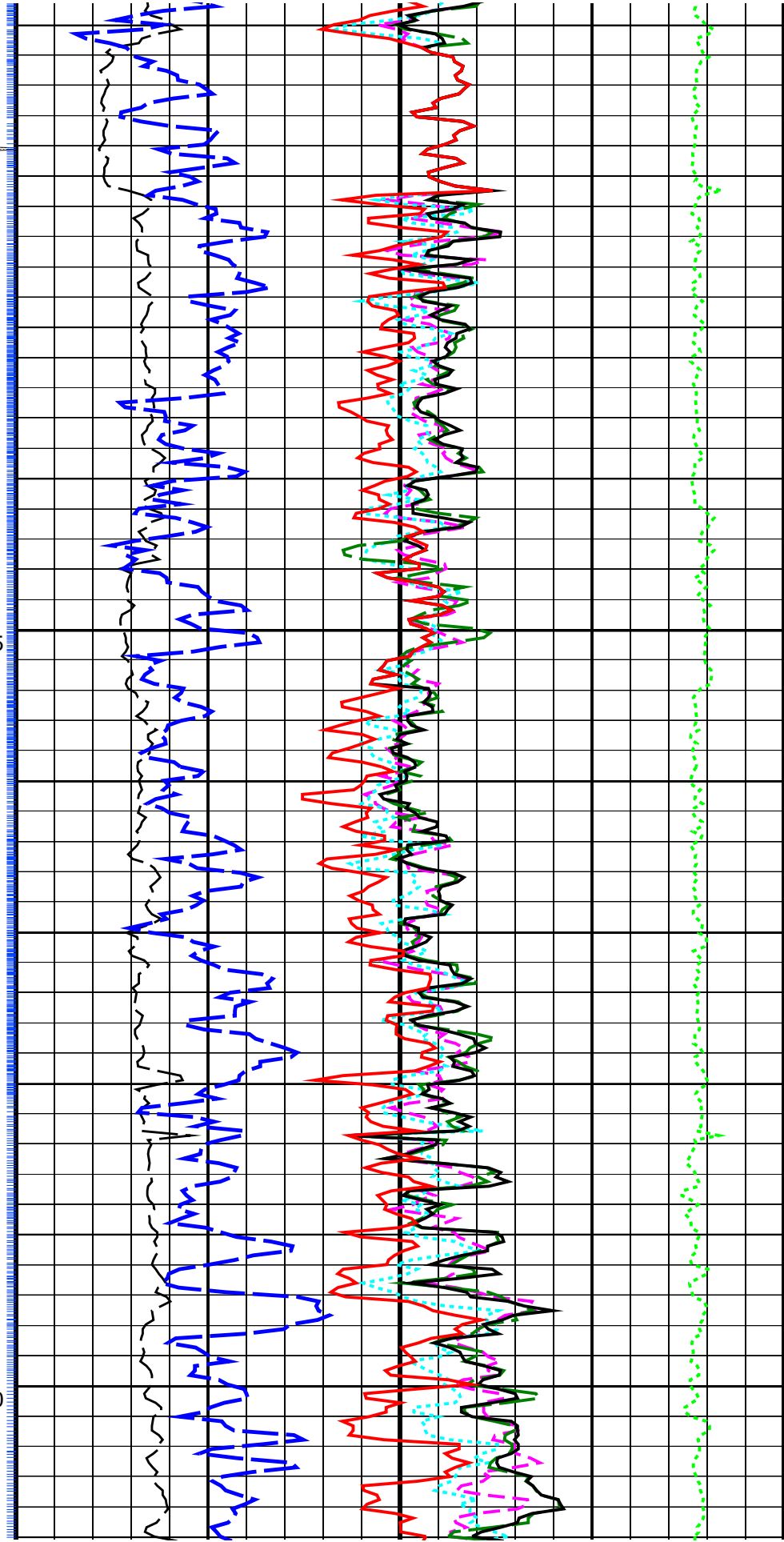
<div>Rate of Penetration, Averaged over Last 5ft (ROP5_RM)</div> <div>200 (M/HR) 0</div> <div>RAB Gamma Ray (GR_RAB)</div> <div>0 (GAPI) 200</div> <div>Density Time After Bit (TAB_DEN)</div> <div>0 (HR) 10</div> <div>Vertical Hole Diameter (VERD)</div> <div>6 (IN) 16</div> <div>Horizontal Hole Diameter (HORD)</div> <div>6 (IN) 16</div> <div>ADN Rotational Speed (RPM_ADN)</div> <div>0 200</div>		<div>Gas Area</div> <div>From ADN/IDRH/DEPTH to TNPH</div>	
		<div>Thermal Neutron Porosity (TNPH)</div> <div>45 (PU) -15</div>	
		<div>Bulk Density, Bottom (ROBB)</div> <div>1.85 (G/C3) 2.85</div>	
		<div>Image Derived Density (IDRO)</div> <div>1.85 (G/C3) 2.85</div>	
		<div>Bulk Density, Up (ROBU)</div> <div>1.85 (G/C3) 2.85</div>	
		<div>Bulk Density, Right (ROBR)</div> <div>1.85 (G/C3) 2.85</div>	
		<div>Photoelectric Factor (PEF)</div> <div>0 ---- 20</div>	<div>Image Derived Density Correction (IDDR)</div> <div>-0.75 (G/C3) 0.25</div>
		<div>Bulk Density, Left (ROBL)</div> <div>1.85 (G/C3) 2.85</div>	

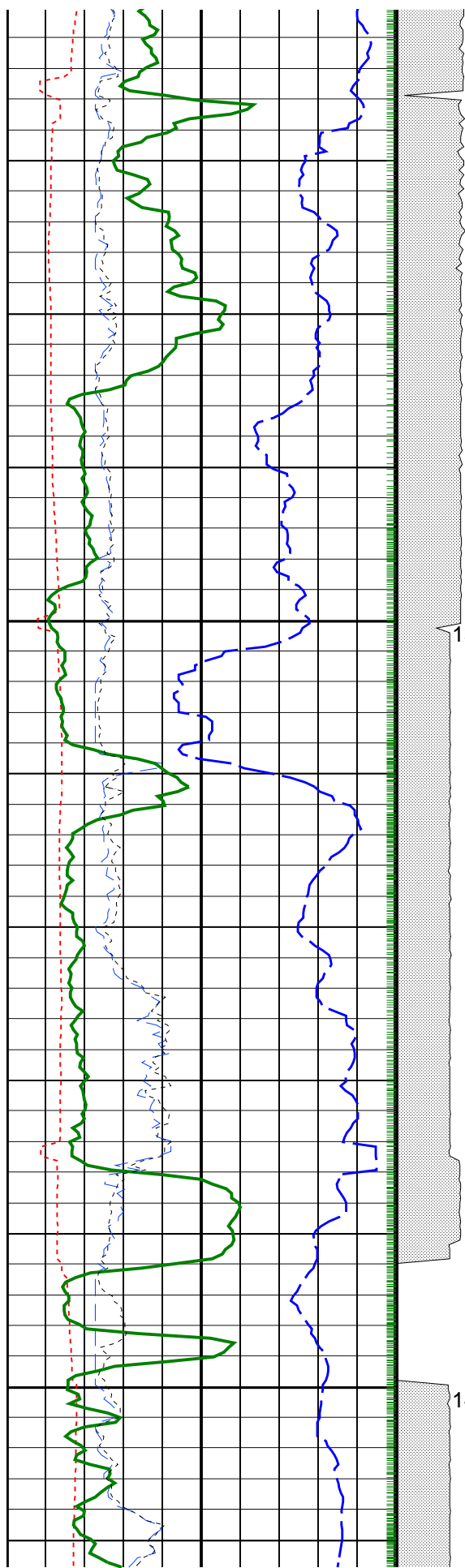




1325

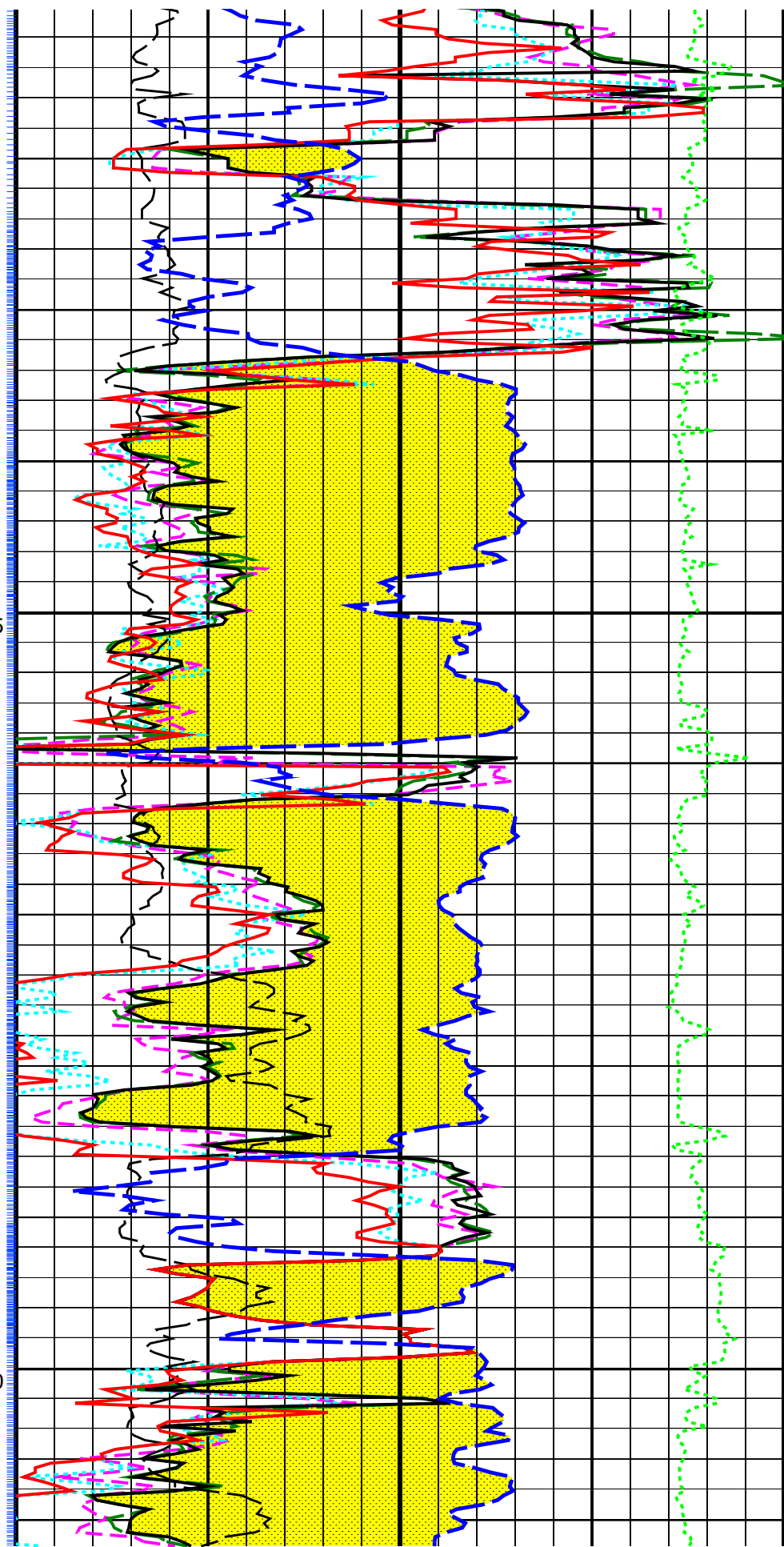
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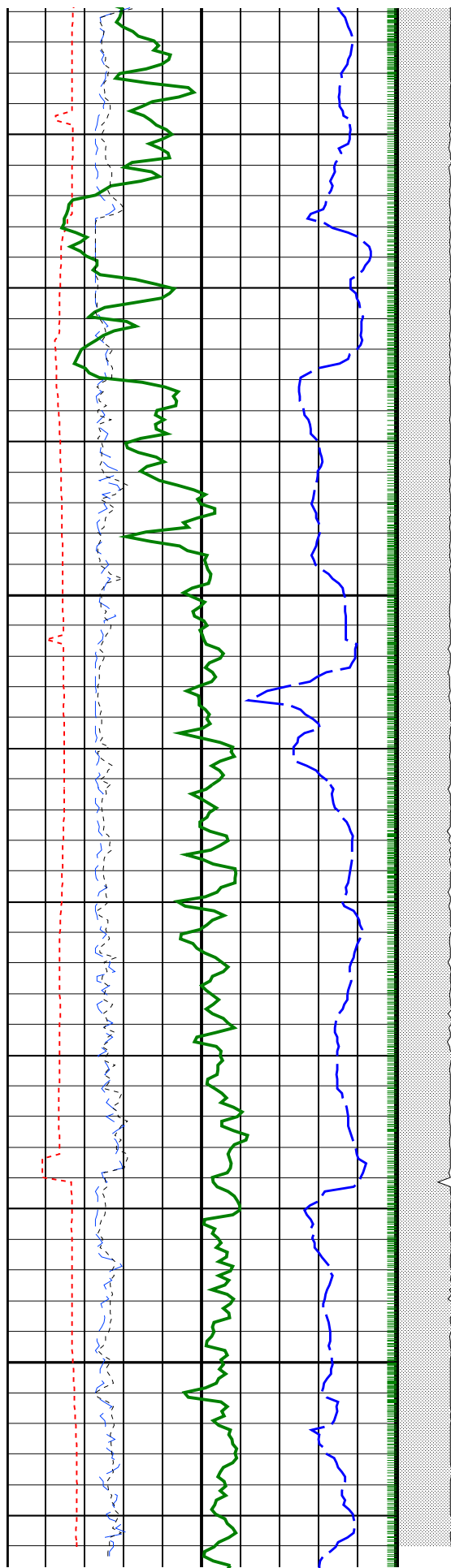




1375

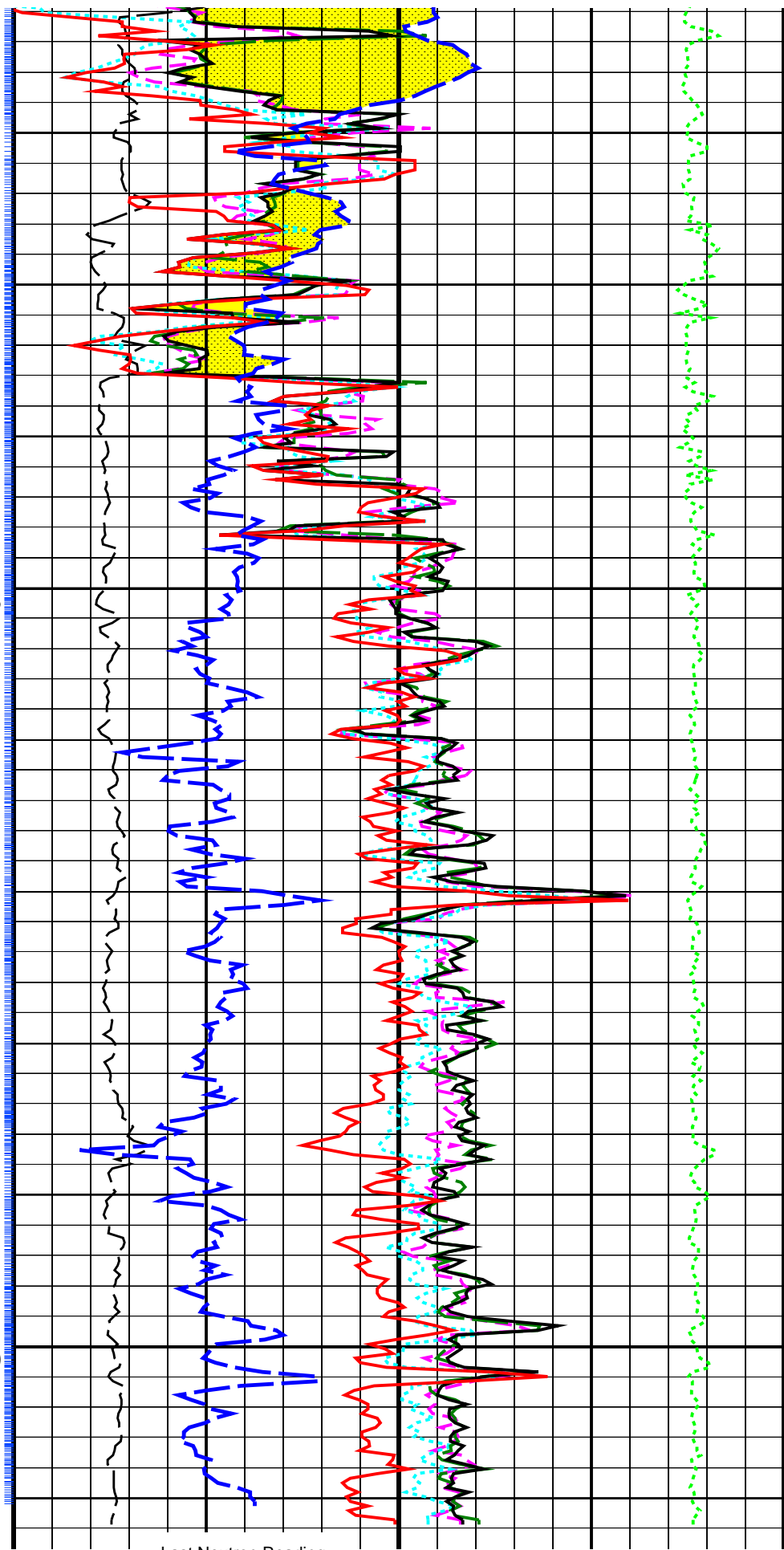
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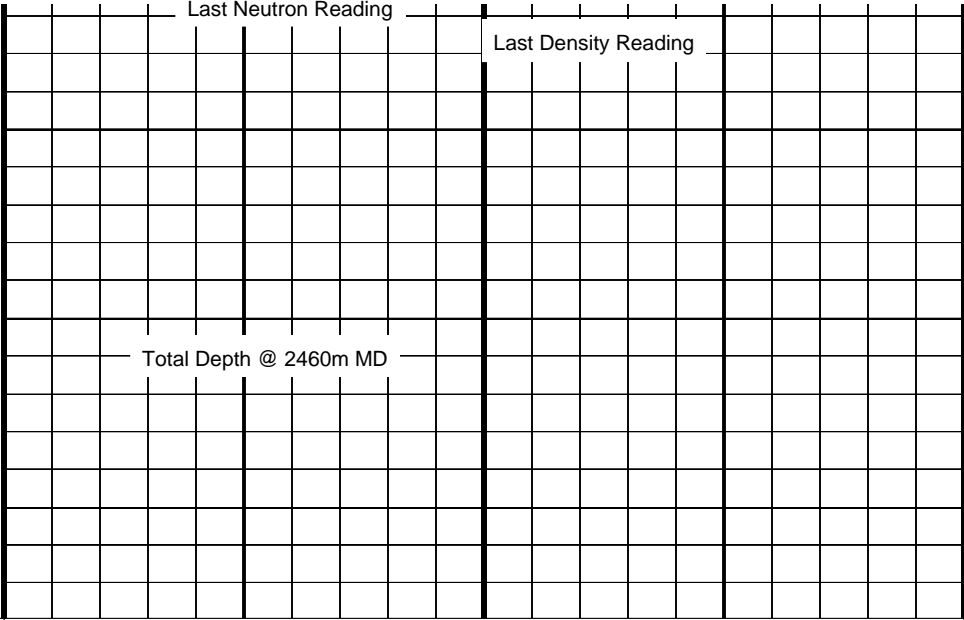
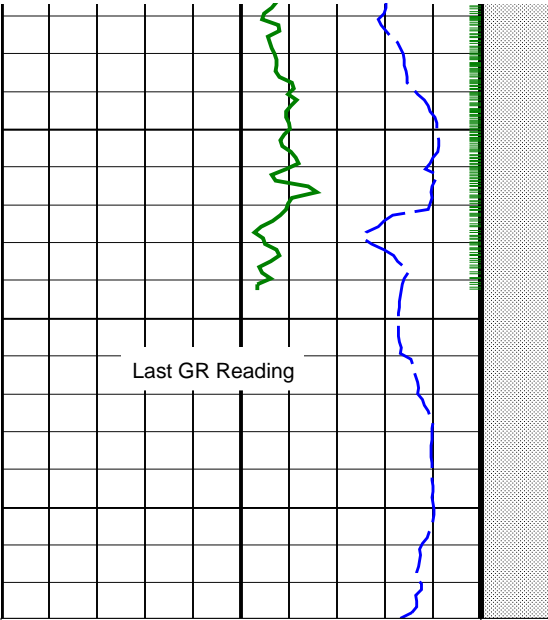


1425

1450



Last Neutron Reading



<div>Horizontal Hole Diameter (HORD)</div> <div>(IN)</div>		<div>ADN</div> <div>Rotational</div> <div>Speed</div> <div>(RPM_ADN)</div> <div>(RPM)</div> <div>0</div> <div>200</div>	<div>Bulk Density, Left (ROBL)</div> <div>(G/C3)</div> <div>1.85</div> <div>2.85</div>	
<div>Vertical Hole Diameter (VERD)</div> <div>(IN)</div>			<div>Photoelectric Factor (PEF)</div> <div>(----</div> <div>0</div> <div>20</div>	<div>Image Derived Density Correction</div> <div>(IDDR)</div> <div>(G/C3)</div> <div>-0.75</div> <div>0.25</div>
<div>Density Time After Bit (TAB_DEN)</div> <div>(HR)</div>			<div>Bulk Density, Right (ROBR)</div> <div>(G/C3)</div> <div>1.85</div> <div>2.85</div>	
<div>RAB Gamma Ray (GR_RAB)</div> <div>(GAPI)</div>			<div>Bulk Density, Up (ROBU)</div> <div>(G/C3)</div> <div>1.85</div> <div>2.85</div>	
<div>Rate of Penetration, Averaged over Last</div> <div>5ft (ROP5_RM)</div> <div>(M/HR)</div>			<div>Image Derived Density (IDRO)</div> <div>(G/C3)</div> <div>1.85</div> <div>2.85</div>	
<div></div>			<div>Bulk Density, Bottom (ROBB)</div> <div>(G/C3)</div> <div>1.85</div> <div>2.85</div>	
<div></div>		<div>Thermal Neutron Porosity (TNPH)</div> <div>(PU)</div> <div>45</div> <div>-15</div>		
<div></div>		<div>Gas Area</div> <div>From ADN/IDRH/DEPTH to TNPH</div>		

PIP SUMMARY			
+ Neutron Samples		Density Samples	
+ Gamma Ray Samples			
IDEAL Version: ID7_0C_02			
IDEAL			
RAB6-CA	unofficial	MWD_10-A	unofficial
ADN-CA	unofficial		

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
ADD6 - AA
ADSE - EA
Clamped On
NSB - 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	SS window 1 - Mg CPS	Value	Phase	SS window 3 - Mg CPS	Value
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		48.41	Master		117.8	Master		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		1.145	Master		-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		1.073	Master		-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		1.138	Master		-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		1.137	Master		-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		1.095	Master		-0.7400
	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 3 gain		Value	Phase	Far 2 tube 3 offset CPS		Value
Master			1.167	Master			-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			1.101	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			1.118	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

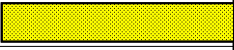
Phase	Ring/T1 factor		Value	Phase	Ring/T2 factor		Value	Phase	M0/T1 factor		Value
Master			0.9620	Master			0.9670	Master			0.9990
0.9750 (Minimum)	1.000 (Nominal)	1.025 (Maximum)		0.9750 (Minimum)	1.000 (Nominal)	1.025 (Maximum)		0.9750 (Minimum)	1.000 (Nominal)	1.025 (Maximum)	
Phase	M0/T2 factor		Value	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

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

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

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

----- 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

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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 (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

Field: Tuna
Rig: Pool Rig 453
State: Victoria

IDEAL services from **Anadrill**

**VISION Density Neutron
1:200 True Vertical Depth
Recorded Mode Log**

Schlumberger