

Esso Australia Ltd.

WTN W33A

Tuna

Pool Rig 453 State: **Victoria**

<div><div>Schlumberger</div><div>GeoVision 1:500 Measured Depth Recorded Mode Log</div></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			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		
		E 148° 23' 16.247 S 38° 11' 36.419				
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		Borehole deviation record			
	from	to	Min	Max	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		
<div>IDEAL services from Anadrill</div>						

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

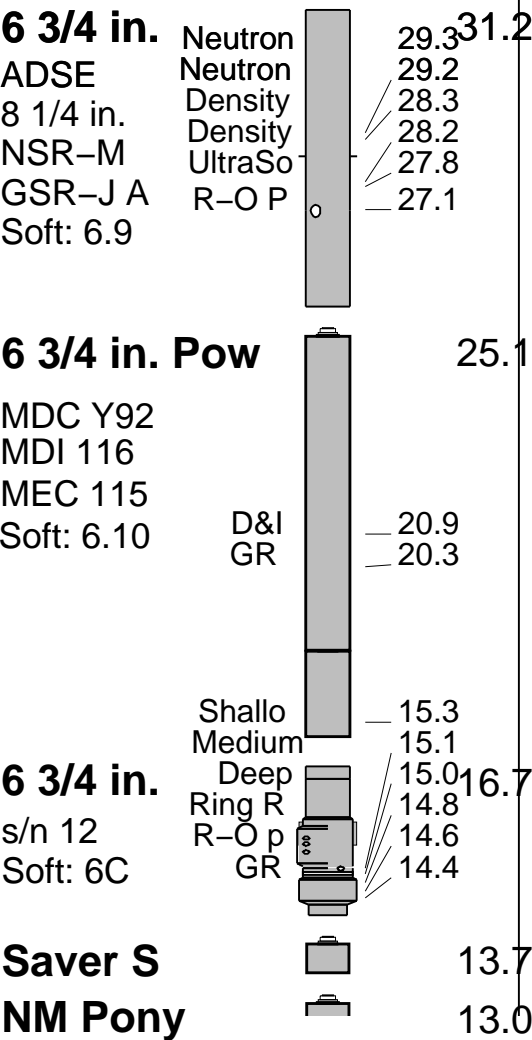
EQUIPMENT DESCRIPTION

RUN1

RUN

RUN

DOWNHOLE EQ



Environmental data

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_OC_02

IDEAL

 RAB6-CA
ADN-CA

 unofficial
unofficial

MWD_10-A

unofficial

Format: TripleComboDepthLog

Vertical Scale: 1:500

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

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	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
SBUTTON_K_FACTOR	RAB: Button Shallow K Factor	-999.25	
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
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	

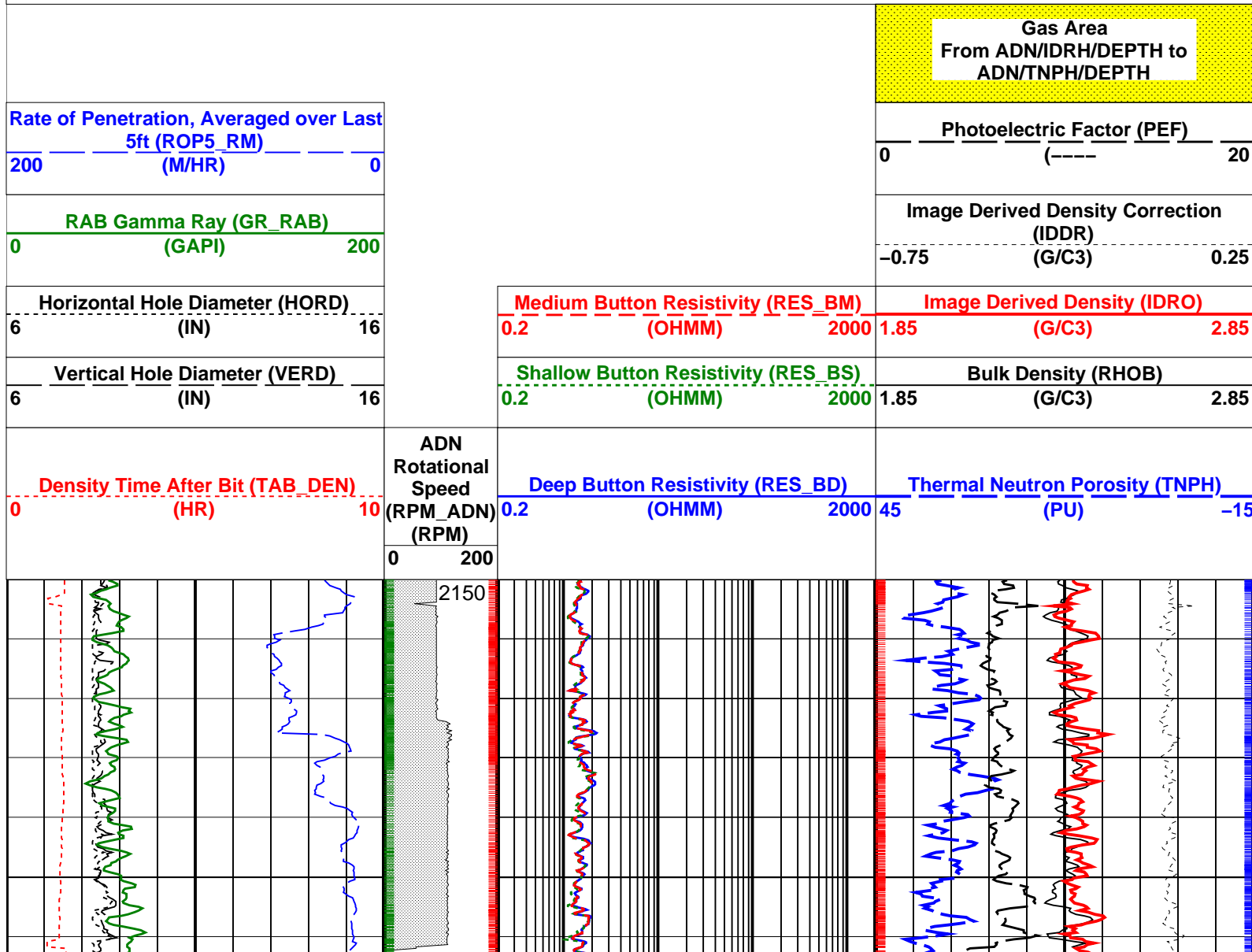
PIP SUMMARY

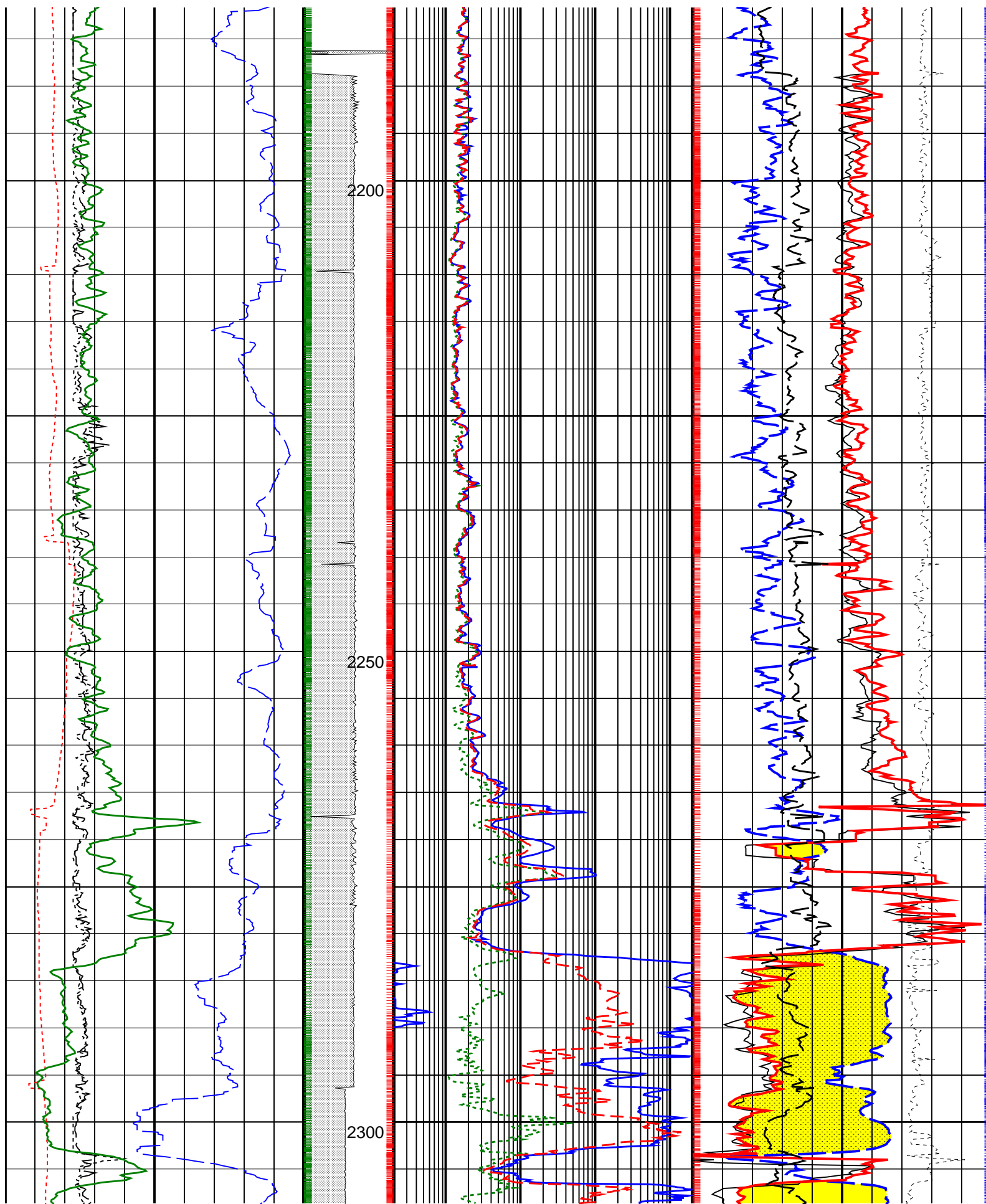
Density Samples ▬

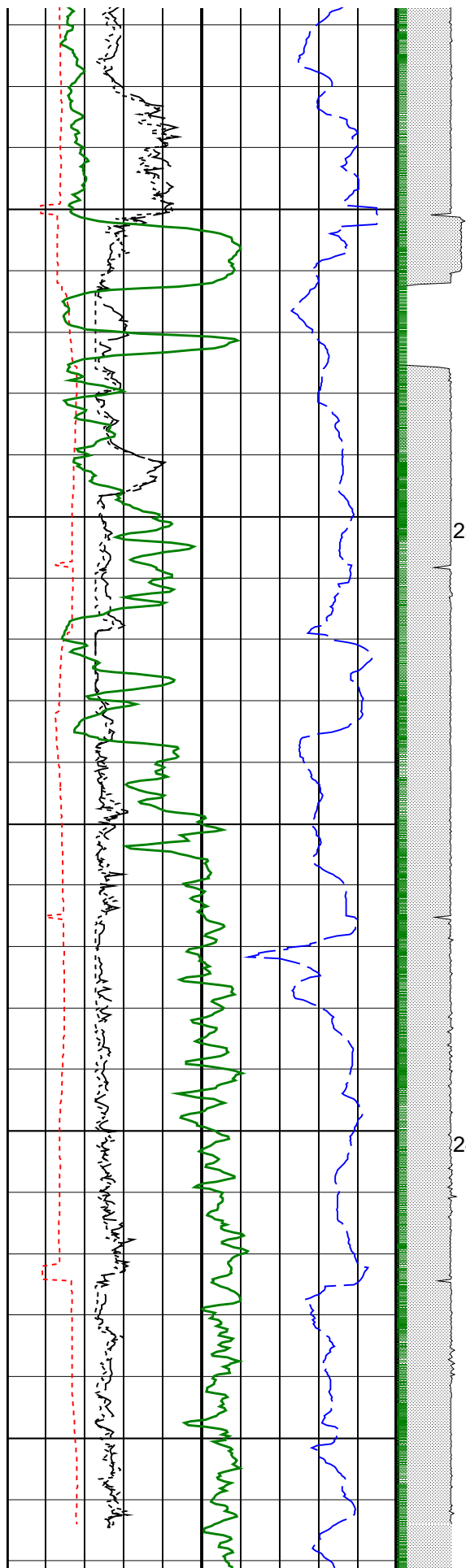
Neutron Samples ▬

▬ RAB samples

▬ Gamma Ray Samples

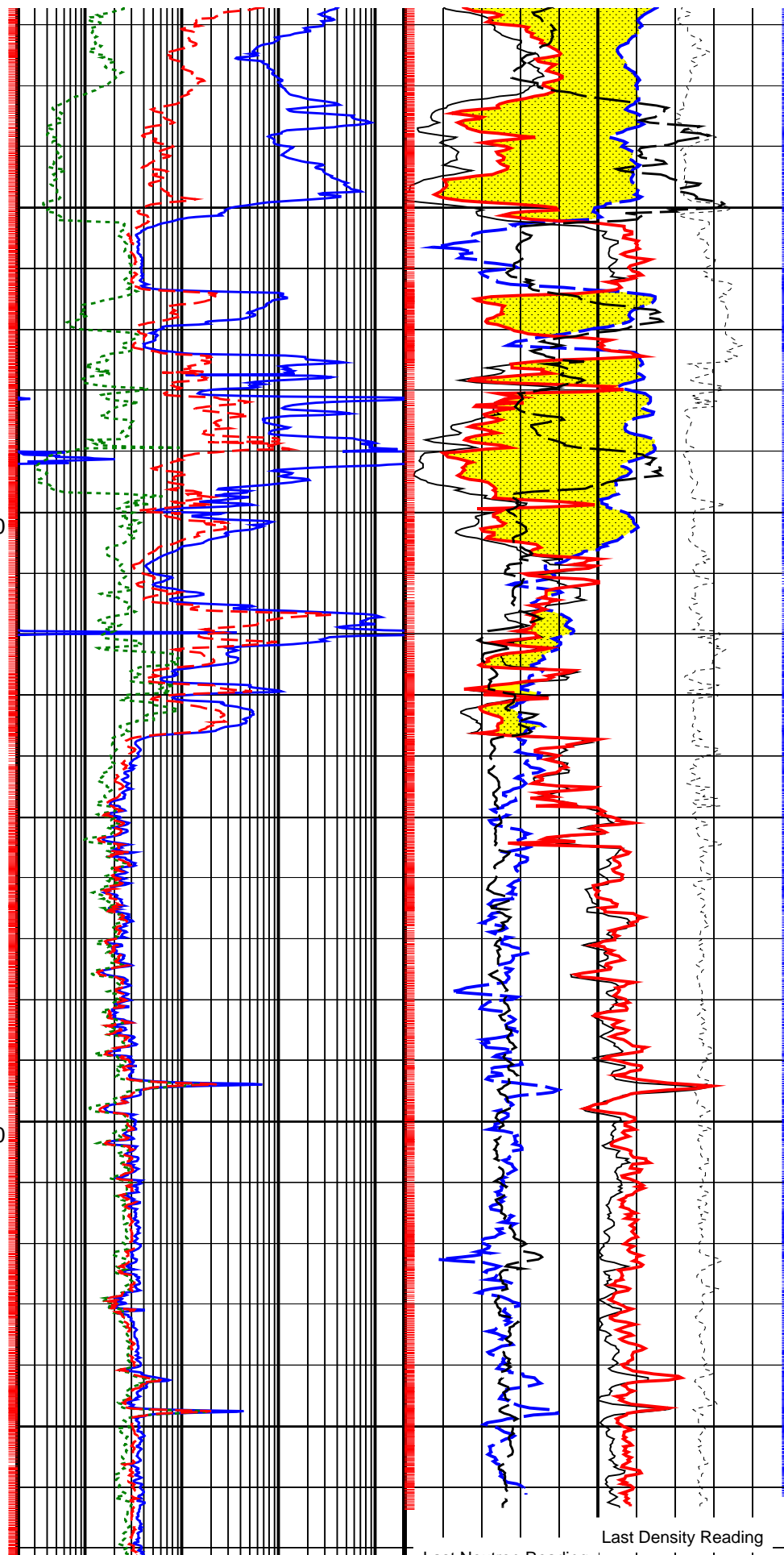






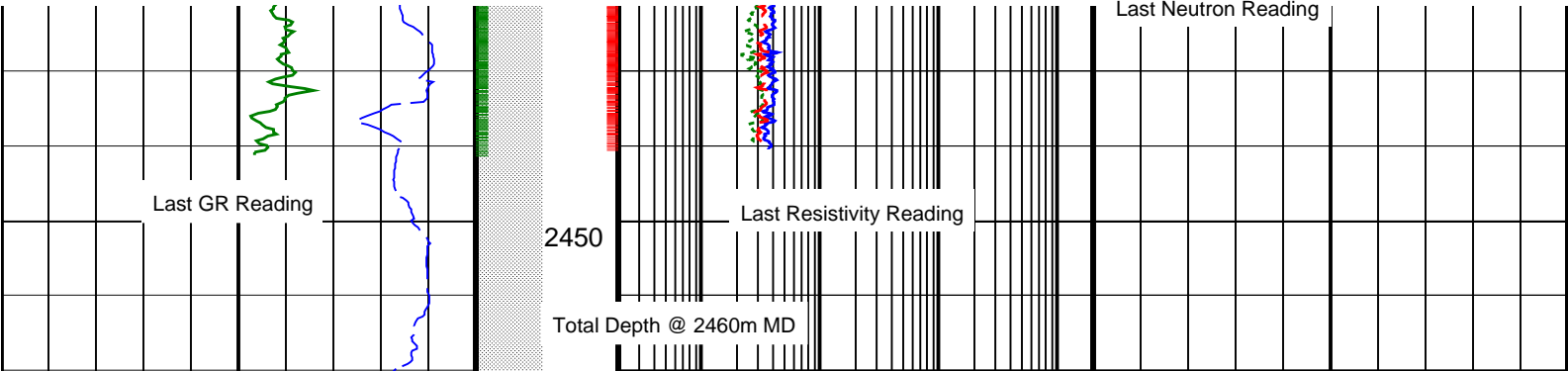
2350

2400



Last Neutron Reading

Last Density Reading






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

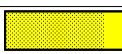
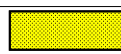
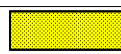
PIP SUMMARY			
Density Samples		Neutron Samples	
+ RAB samples			
+ Gamma Ray Samples			




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

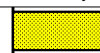
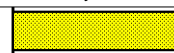
6.75-in. Azimuthal Density Neutron / Equipment Identification	
Primary Equipment: Tool Name and Serial Number Collar Type and Serial Number Chassis Type and Serial Number Stabilizer Type and Serial Number Neutron Logging Source Density Logging Source Stabilizer Size Calibration Status	ADN6 - 014 ADDC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




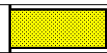



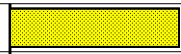



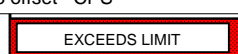




Master: 21-Apr-2002 16:57														
6.75-in. Azimuthal Density Neutron Calibration														
Density: Magnesium Block														
Phase	LS window 3 – Mg CPS			Value	Phase	SS window 1 – Mg CPS			Value	Phase	SS window 3 – Mg CPS			Value
Master				1323	Master				2920	Master				7699
	250.0	4125	8000			700.0	9350	18000			2500	23750	45000	

250.0 (Minimum)	4125 (Nominal)	8000 (Maximum)	700.0 (Minimum)	9350 (Nominal)	18000 (Maximum)	2500 (Minimum)	23750 (Nominal)	45000 (Maximum)
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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)	
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		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)

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

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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 (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 Measured Depth
Recorded Mode Log

IDEAL services from Anadrill

Schlumberger

