

Well:	Fermat-1
Field:	Fermat
Rig:	West Triton

State: **Victoria**

Rig:		West Triton	
Field:		Fermat	
Location:		Bass Strait	
Well:		Fermat-1	
Company:		Beach Petroleum Ltd	
<div style="text-align: center;"> <b>VISION Density Neutron</b>  <b>1:500 Measured Depth</b>  <b>Recorded Mode Log</b> </div>			
Location			
Job No.  08ASQ0034	Total depth:	3585.0 m	K.B. Top Drive
	Spud date:	13-Dec-2008	G.L. -38.0 m
	Run:	4	D.F. 42.85 m
	Permanent datum:	Mean Sea Level	Elev.: 0.0 m
	Log measured from:	Drill Floor	42.85 m above Perm. datum
Depth reference:	Driller's Depth		
X = E 504713.143 m	Longitude	Latitude	
Y = N 5772392.606 m	141° 03' 14.14" E	38° 11' 46.92" S	

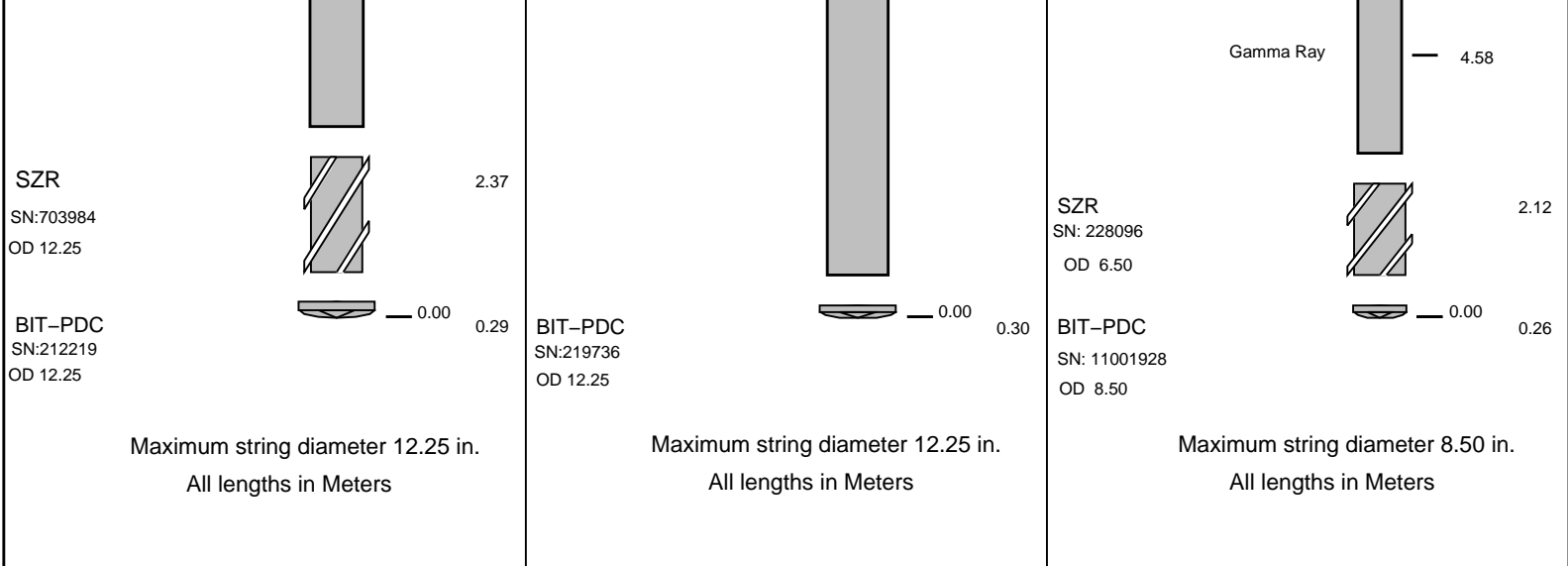
Depth logged: 2800.0 m		To 3555.65 m		Mag decl: 9.87 deg.		Other services:	
Date logged: 03-Jan-09		07-Jan-09		Mag dip: -69.0 deg.		See Remarks	
Bore hole record				Casing record			
Hole size	from	to	Size	Density	from	to	
36.0 in.	0.0 m	119.0 m	30.0 in.	310 lb/m	Wellhead	116.0 m	
17.5 in.	119.0 m	999.0 m	13.375 in.	223 lbm/m	116.0 m	987.0 m	
12.25 in.	987.0 m	2800.0 m	9.625 in.	175.5 lb/m	987.0 m	2800.0 m	
8.5 in.	2800.0 m	3585.0 m					
Mud record				Borehole deviation record			
Type	from	to	M/in	Max	from	to	
WBM	119.0 m	999.0 m	0.09 deg.	2.77 deg.	999.0 m	2800.0 m	
WBM	999.0 m	2800.0 m	0.09 deg.	2.77 deg.	999.0 m	2800.0 m	
WBM	2800.0 m	3585.0 m	0.6 deg.	3.51 deg.	128.24 m	227.37 m	
Surface equipment			Software record				
Unit	OLU--KC-0702		IDEAL		13_OC_14		
Depth system	DWE/DWC		HSPM		13_1C_04		
			LWD		See Remark		
			MWD		PUP 9.2		

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 RUN2 Directional Surveys Annulus Pressure & Temperature	OTHER SERVICES FOR RUN3 Directional Surveys Annulus Pressure & Temperature	OTHER SERVICES FOR RUN4 Directional Surveys Annulus Pressure & Temperature Ultrasonic Caliper
<p>REMARKS: RUN NUMBER 2</p> <p>Depth is referenced to Driller's Depth</p> <p>ARC Gamma Ray is corrected for mud weight, bit size, tool collar size, and KCL% .</p> <p>ARC Resistivity is borehole compensated and environmentally corrected for bit size, mud resistivity and temperature.</p> <p>ADN Thermal Neutron Porosity (TNPH) is corrected for the effects of bit size, temperature, mud salinity, and mud hydrogen index (a factor of mud weight, mud temperature, and pressure).</p> <p>Neutron Porosity is calculated using a limestone matrix with a matrix density of 2.71 g/cm3.</p>	<p>REMARKS: RUN NUMBER 3</p> <p>Depth is referenced to Driller's Depth</p> <p>ARC Gamma Ray is corrected for mud weight, bit size, tool collar size, and KCL% .</p> <p>ARC Resistivity is borehole compensated and environmentally corrected for bit size, mud resistivity and temperature.</p> <p>ADN Thermal Neutron Porosity (TNPH) is corrected for the effects of bit size, temperature, mud salinity, and mud hydrogen index (a factor of mud weight, mud temperature, and pressure).</p> <p>Neutron Porosity is calculated using a limestone matrix with a matrix density of 2.71 g/cm3.</p>	<p>REMARKS: RUN NUMBER 4</p> <p>Depth is referenced to Driller's Depth</p> <p>ARC Gamma Ray is corrected for mud weight, bit size, tool collar size, and KCL%.</p> <p>ARC Resistivity is borehole compensated and environmentally corrected for bit size, mud resistivity and temperature.</p> <p>ADN Thermal Neutron Porosity (TNPH) is corrected for the effects of bit size, temperature, mud salinity, and mud hydrogen index (a factor of mud weight, mud temperature, and pressure).</p> <p>Neutron Porosity is calculated using a limestone matrix with a matrix density of 2.71 g/cm3.</p>

<p>SonicVISION Delta–T is borehole compensated</p> <p>Run objective: Drill 12.25in hole section</p> <p>POOH: To correct inclination</p>	<p>SonicVISION Delta–T is borehole compensated.</p> <p>Run objective: Drill 12.25in hole section.</p> <p>POOH: Section TD</p>	<p>sonicVISION Delta–T is borehole compensated.</p> <p>Run objective: Drill 8.5in hole section.</p> <p>POOH: Final TD</p>
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EQUIPMENT DESCRIPTION		
RUN 2	RUN 3	RUN 4
<div>DOWNHOLE EQUIPMENT</div> <div> <div> <div>SZR</div> <div>SN: OSS041163B</div> <div></div> <div>27.89</div> </div> <div> <div>SONIC8–A</div> <div>SN:48648</div> <div>DHS: 6.6</div> <div></div> <div>25.45</div> </div> <div> <div>RX array</div> <div></div> <div>22.37</div> </div> <div> <div>Xmitter</div> <div></div> <div>18.87</div> </div> <div> <div>TeleScope</div> <div>SN:VR52</div> <div>DHS: 9.2</div> <div></div> <div>17.26</div> </div> <div> <div>D&amp;I</div> <div></div> <div>12.96</div> </div> <div> <div>ARC8–A</div> <div>SN:1957</div> <div>DHS: 9.3</div> <div></div> <div>8.29</div> </div> <div> <div>Gamma Ray</div> <div></div> <div>4.90</div> </div> </div>	<div>DOWNHOLE EQUIPMENT</div> <div> <div> <div>SZR</div> <div>SN:41163B</div> <div></div> <div>36.25</div> </div> <div> <div>SONIC8–A</div> <div>SN:41229A</div> <div>DHS :6.6</div> <div></div> <div>33.81</div> </div> <div> <div>RX array</div> <div></div> <div>30.82</div> </div> <div> <div>Xmitter</div> <div></div> <div>27.33</div> </div> <div> <div>TeleScope</div> <div>SN: VR52</div> <div>DHS : 9.2</div> <div></div> <div>25.73</div> </div> <div> <div>D&amp;I</div> <div></div> <div>21.43</div> </div> <div> <div>Gamma Ray</div> <div></div> <div>13.37</div> </div> <div> <div>ARC8–A</div> <div>SN: 1948</div> <div>DHS: 9.3</div> <div></div> <div>16.76</div> </div> <div> <div>FloatSub</div> <div>SN:ASQ8038</div> <div>PDM</div> <div>SN:2983</div> <div></div> <div>10.83</div> </div> <div> <div></div> <div></div> <div>10.03</div> </div> </div>	<div>DOWNHOLE EQUIPMENT</div> <div> <div> <div>ADN6–C</div> <div>SN:40778</div> <div>OD 6.75</div> <div>BladeOD 8.13</div> <div></div> <div>31.38</div> </div> <div> <div>Neutron</div> <div>NSR–M 202</div> <div>Density</div> <div>GSR–J/Z 1994</div> <div>UltraSonic</div> <div></div> <div>29.345</div> </div> <div> <div></div> <div></div> <div>28.355</div> </div> <div> <div></div> <div></div> <div>27.93</div> </div> <div> <div>SONIC6–A</div> <div>SN: 649</div> <div>DHS :6.6</div> <div></div> <div>25.15</div> </div> <div> <div>RX array</div> <div></div> <div>21.97</div> </div> <div> <div>Xmitter</div> <div></div> <div>18.53</div> </div> <div> <div>TeleScope</div> <div>SN: VC64</div> <div>DHS :9.2</div> <div></div> <div>16.95</div> </div> <div> <div>D&amp;I</div> <div></div> <div>12.63</div> </div> <div> <div></div> <div></div> <div>7.96</div> </div> </div>



## Bit Run Summary

Run number		2	3	4						
Bit size	in.	12.25	12.25	8.5						
Bit start depth	m	980.0 m	2396.0 m	2800.0 m						
Bit end depth	m	2396.0 m	2800.0 m	3585.0 m						
Top interval logged	m	987.0 m	2383.04 m	2800.0 m						
Bottom interval logged	m	2383.04 m	2786.68 m	3580.42 m						
Begin log: time		09:00	15:50	19:30						
Begin log: date		20-Dec-08	26-Dec-08	03-Jan-09						
End log: time		13:10	00:10	20:00						
End log: date		26-Dec-08	29-Dec-08	07-Jan-09						
Mud data										
Depth	m	1530.0	2600.0	2800.0						
Type		WBM	WBM	WBM						
Mud weight	lb/gal	9.7	9.7	10.6						
Solids	%	5.2	6.4	8.2						
Chlorides	mg/l	47,500	46,000	41,000						
Rm	ohm-m@degC	0.08@22.2	0.09@24.9	0.11@23.7						
Rmf	ohm-m@degC	0.07@22.2	0.08@22.3	0.08@23.4						
Rmc	ohm-m@degC	0.18@22.2	0.13@22.3	0.13@23.7						
Potassium	%	3.6	3.5	3.5						
Environmental data										
GR										
Mud weight	lb/gal	9.7	9.7	10.6						
Bit size	in.	17.5	12.25	8.5						
Resistivity										
Neutron porosity										
Hole Size	in.	17.5	12.25	8.5						
Mud weight	lb/gal	9.7	9.7	10.6						
Temperature	deg C	22.2	24.9	23.7						
Mud salinity	ppk	n/a	n/a	n/a						
Formation salinity	ppm	n/a	n/a	n/a						
Recording rate 1	SEC	6	6	5						
Recording rate 2	SEC	6	6	5						
Filtering GR	3 pt	3 pt	3 pt	3 pt						
Filtering density	n/a	n/a	n/a	3 pt						
Filtering Neutron	n/a	n/a	n/a	3 pt						
Company representative		Rocco.R	Peter.S							
Anadrill personnel		Josh S.	STD. Aung	D. Gibson	Rika K.	C. Skiba				

Variable Name	Variable Description	Run Name & Value			
	Run Number		2	3	4
	General Information				
BHT_RM	Bottom Hole Temperature (RM)	DEGC	62.000	60.000	78.000
BSAL_RM	Mud Salinity (RM)	PPK	n/a	n/a	n/a
BS_RM	Bit Size (RM)	IN	12.250	12.250	8.500
COEF_M	User Defined FEXP in Clean Sand	----	1.650	1.650	1.650
C_WS	Overpressure correction to Sw and M	----	1.000	1.000	1.000
FEXP	Formation Factor Exponent (RM)	----	2.000	2.000	2.000
FNUM	Formation Factor Enumerator (RM)	----	1.000	1.000	1.000
FPHI_RM	Formation Factor Porosity Source (RM)	----	XPLOT	XPLOT	XPLOT
MST_RM	Mud Sample temperature (RM)	DEGC	22.20	24.90	23.70
MW_RM	Mud Weight (RM)	LB/G	9.600	9.700	10.600
OBMF_RM	Oil Based Mud (RM)	----	NO	NO	NO
RHOF_RM	Mud Filtrate Density (RM)	G/C3	1.000	1.000	1.000
RHOM_RM	Matrix density (RM)	G/C3	2.710	2.710	2.710
RMS_RM	Resistivity of Mud Sample (RM)	OHMM	0.086	0.087	0.114
RWA_COMP_M	Rwa computation model				
RWA_DEN_AD	Rwa Density Input ADN				
RWA_DEN_CD	Rwa Density Input CDN				
RWA_DEN_IN	Rwa Density Input				
RWA_FORM_M	Rwa computation formation model				
RWA_RES_IN	Rwa computation resistivity input				
RWS_RM	Resistivity of Connate Water (RM)	OHMM	1.000	1.000	1.000
SHT_RM	Ground Level Temperature (Mud-Line When Offshore ) (RM)	DEGC	10.000	10.000	10.000
TD_RM	Total Measured Depth (RM)	M	2396.000	2807.000	3585.000
TWS_RM	Temperature of Connate Water (RM)	DEGC	23.889	23.889	23.889
VF_ILLI	Fraction of illite in shales	----	0.500	0.500	0.500
VF_KAOL	Fraction of kaolinite in shales	----	0.500	0.500	0.500
VF_MONT	Fraction of montmorillonite in shales	----	0.000	0.000	0.000
XPDM_RM	Cross plot density porosity multiplier	----	0.675	0.675	0.675
XPNM_RM	Cross plot neutron porosity multiplier	----	0.325	0.325	0.325
	ARC				
A12A	ARC Air Cal Attenuation From T1 at 2 MHz	DB	7.601	8.789	9.556
A14A	ARC Air Cal Attenuation From T1 at 400 KHz	DB	7.717	8.691	9.527
A22A	ARC Air Cal Attenuation From T2 at 2 MHz	DB	7.041	5.842	5.411
A24A	ARC Air Cal Attenuation From T2 at 400 KHz	DB	6.932	5.948	5.448
A32A	ARC Air Cal Attenuation From T3 at 2 MHz	DB	4.332	5.517	6.173
A34A	ARC Air Cal Attenuation From T3 at 400 KHz	DB	4.440	5.413	6.134
A42A	ARC Air Cal Attenuation From T4 at 2 MHz	DB	4.995	3.803	3.310
A44A	ARC Air Cal Attenuation From T4 at 400 KHz	DB	4.889	3.912	3.337
A52A	ARC Air Cal Attenuation From T5 at 2 MHz	DB	2.920	4.111	4.722
A54A	ARC Air Cal Attenuation From T5 at 400 KHz	DB	3.031	4.018	4.697
ABNT	Abnormal Transmitter Indicator	----	No_Tx_Failed	No_Tx_Failed	No_Tx_Failed
ADHS	ARC Down Hole Software Version	----	9.3 B13	9.3B13	9.3B13
AM2A	ARC Air Cal Amplitude Offset at 2 MHz	----	-50000.000	-50000.000	-50000.000
ANISO_COMPUTE	Anisotropy Computation Option	----	YES	YES	YES
APICG	ARC5 Gamma Ray Gain Factor	----	1.062	1.089	1.096
APIG	ARC Gamma Ray API Gain Factor	----	-1.000	-1.000	-1.000
ARC_DATA_FIX	ARC: Create A Corrected ARC Time Data File	----	NO	NO	NO
ARC_DATA_LTB	ARC: Create An ARC LTB Data File	----	NO	NO	NO
ATMP_ARC	ARC Select Temperature Channel	----	Annulus_Temp	Annulus_Temp	Annulus_Temp
ATRN	ARC Tool Run Number	----	2	3	4
ATSN	ARC Tool Serial Number	----	1957	1948	2056
AZMF	Formation DIP Azimuth	DEG	0.000	0.000	0.000
BH_COMPUTE	Borehole Inversion Computation Option	----	YES	YES	YES
CALG	ARC Gamma Ray Cal Gain Factor	----	1.062	1.089	1.096
CALI_SLCT_ARC	ARC Caliper Selection	----	BITSIZE	BITSIZE	BITSIZE
CDPTH_ARC	Process Start Depth	M	30.480	30.480	30.480
DIELEC_COMPUTE	Dielectric Computation Option	----	YES	YES	YES
DIPF	Formation DIP Angle	DEG	0.000	0.000	0.000
ERRCT	Percentage Error Cutoff	----	4.500	4.500	4.500
GRSH	GR Shale (Invasion Computation Cutoff)	GAPI	1000.000	1000.000	1000.000
HIGH_BLEND	High Resistivity Threshold for Blending	OHMM	2.000	2.000	2.000
INCLIN_B0	ARC Bias Constant (mg)	----	0.000	0.000	0.000
INCLIN_B1	ARC Bias First-order Coefficient (mg/degC)	----	0.000	0.000	0.000
INCLIN_B2	ARC Bias Secod-order Coeeficient (mg/degC)	----	0.000	0.000	0.000
INCLIN_B3	ARC Bias Third-order Coeeficient (mg/degC)	----	0.000	0.000	0.000
INCLIN_C0	ARC Current Scale Factor Constant (mA/g)	----	1.000	1.000	1.000
INCLIN_C1	ARC Scale First-order Coefficient (mA/g/degC)	----	0.000	0.000	0.000
INCLIN_C2	ARC Scale Second-order Coefficient (mA/g/degC)	----	0.000	0.000	0.000
INCLIN_C3	ARC Scale Third-order Coefficient (mA/g/degC)	----	0.000	0.000	0.000
INVAS_COMPUTE	Invasion Computation Option	----	YES	YES	YES
JSD_ARC	ARC Acquisition start date	----	20-Jan-09	26-Jan-09	2-Jan-09
KPER	Potassium Concentration (RM)	----	3.670	3.588	3.568
LOW_BLEND	Low Resistivity Threshold for Blending	OHMM	1.000	1.000	1.000
MSWS	ARC Wizard Model Switch Window	M	1.524	1.524	1.524
MULTIEFFECT_COM	Multi Effect Option	----	YES	YES	YES
P11AC_RM	ARC: Air Calibration For Phase T1 to R1	DEG	-999.250	-999.250	-999.250
P12A	ARC Air Cal Phase-Shift From T1 at 2 MHz	DEG	1.539	-1.049	0.855
P14A	ARC Air Cal Phase-Shift From T1 at 400 KHz	DEG	1.056	1.041	-0.196
P22A	ARC Air Cal Phase-Shift From T2 at 2 MHz	DEG	-1.495	1.120	-0.801
P24A	ARC Air Cal Phase-Shift From T2 at 400 KHz	DEG	-1.083	-1.091	0.135
P32A	ARC Air Cal Phase-Shift From T3 at 2 MHz	DEG	1.481	-1.128	0.777
P34A	ARC Air Cal Phase-Shift From T3 at 400 KHz	DEG	1.067	1.056	-0.170
P42A	ARC Air Cal Phase-Shift From T4 at 2 MHz	DEG	-1.545	1.094	-0.839
P44A	ARC Air Cal Phase-Shift From T4 at 400 KHz	DEG	-1.130	-1.128	0.106
P52A	ARC Air Cal Phase-Shift From T5 at 2 MHz	DEG	1.469	-1.156	0.752
P54A	ARC Air Cal Phase-Shift From T5 at 400 KHz	DEG	1.059	1.032	-0.212

POFFSET_ARC	ARC: Pressure Offset	PSI	0.000	0.000	0.000
PRTD	Preferred Resistivity Log for Rt Display while Multi-Effects	----	P34B	P34B	P34B
PSOF_ADJ_T1	ARC: User Input Phase offset	DEG	0.000	0.000	0.000
RESTIK	ARC resistivity tick source	----	Phase	Phase	Phase
RSD	LWD run start date dd-mmm-yy	OHMM	0.086	0.087	0.114
RWA_COMP_MOD	Rwa computation model	----	BASIC	BASIC	BASIC
RWA_DEN_ADN	Rwa Density Input	----	RHOB	RHOB	RHOB
RWA_DEN_CDN	Rwa Density Input	----	RHOB	RHOB	RHOB
RWA_DEN_INPUT	Rwa Density Input	----	RHOB	RHOB	RHOB
RWA_FORM_MOD	Rwa computation formation model	----	CLASTIC	CLASTIC	CLASTIC
RWA_RES_INPUT	Rwa computation resistivity input	----	RT	RT	RT
SHIG	ARC High Shock Risk Level	CPS	0.500	0.500	0.500
SMED	ARC Medium Shock Risk Level	CPS	0.330	0.330	0.330
SMIN	ARC Minimum Shock Risk Level	CPS	0.160	0.160	0.160
SUPD	ARC Real Time Shock Update Rate	S	30.000	30.000	30.000
TCODE_ARC	ARC Tool File Code	S	30.000	30.000	30.000
TSIZ_ARC	ARC Tool Size	IN	8.250	8.250	6.750
UNIFORM_COMPUTE	Uniform Rock Option	----	YES	YES	YES
VERS_ARC	ARC Down hole software version Number	----	9.300	9.300	9.300
WRK	Way to Report Potassium Concentration (RM)	----	KCl_by_Wgt_%	KCl_by_Wgt_%	KCl_by_Wgt_%
ADN					
ADN_CHASSIS_STR	Type String		Chassis	ADN	
ADN_COLLAR_STR	Type String		Collar	ADN	
ADN_DATA_FIX	ADN: Create A Corrected ADN Time Data File		----	NO	
ADN_DATA_LTB	ADN: Create An ADN LTB Data File		----	NO	
ADN_STAB_STR	ADN Stabilizer Type String		----	NO	
ALPHA_COMPUTE_D	Perform Density Enhanced Vertical Resolution process ?		----	YES	
ALPHA_COMPUTE_N	Perform Neutron Enhanced Vertical Resolution process ?		----	YES	
AVE_ADN	ADN/Array Channels: perform averaging(RM) :		----	YES	
A_DHS	ADN Down Hole Software Version String		----	8.3A	
CHI_RM	Caliper High limit from BS (RM)		IN	3.000	
CLO_RM	Caliper Low limit from BS (RM)		IN	0.000	
DEVI	Well Section Deviation		DEG	2.910	
DTIK_SEL	ADN: Density Tick Channel Name		----	LSAZ	
DTMUD	Delta-T for Mud		US/F	183.495	
DYN_IMG_COMPUTE	Generate Dynamic Normalized Image?		----	NO	
ECC_CORR_ADN	Perform Eccentering Correction for TNPH?		----	YES	
ENVCOR	Neutron Processing: Environmental Correction?		----	YES	
EVRL	EVR Process averaging number of samples (RM)		----	49	
FCD	Future Casing (Outer) Diameter		IN	0.000	
GCSE	Generalized Caliper Selection		----	BS	
HPS	ADSE-EB (High Pressure Inconel Chassis)?		----	NO	
IBS	Intergal Blade Stabilizer Collar?		----	YES	
IDQT	Image Derived Quality Threshold		----	2.000	
IHVS	Integrated Hole Volume Start Value(RM)		F3	0.000	
IMAGE_MAX_SOA	Image SOA (Quadrant) Right Scale		IN	2.500	
IMAGE_MAX_SPEF	Image PEF(Segment) Right Scale		----	6.000	
IMAGE_MAX_SRHOB	Image RHOB(Segment) Right Scale		G/C3	2.650	
IMAGE_MIN_SOA	Image SOA (Quadrant) Left Scale		IN	0.000	
IMAGE_MIN_SPEF	Image PEF(Segment) Left Scale		----	2.000	
IMAGE_MIN_SRHOB	Image RHOB(Segment) Left Scale		G/C3	2.050	
JSD_ADN	ADN Acquisition start date		----	2-Jan-09	
LITHO_TYPE_ADN	Lithology (RM)		----	LIME	
N1FTU_6_RM	ADN: Neutron Bank 1 Far Tubes used :		----	1-2-3	
N2FTU_6_RM	ADN: Neutron Bank 2 Far Tubes used :		----	1-2-3	
NNTU_RM	ADN Neutron Near Banks Used		----	1-2	
NTIK_SEL	ADN: Neutron Tick Channel Name		----	FR11	
SOCNL	Standoff Distance of the CNL Tool		----	1.000	
SSIZ_ADN	ADN Stabilizer Size		IN	8.125	
STOH	ADN Density Top of Hole Sector (Left Boundary):		----	SECTOR_0	
TRPM_RM	Average Tool Rotational Speed		RPM	20.000	
USMIN_RM	ADN:Minimum Ultrasonic standoff (RM)		IN	0.180	
USWF_RM	ADN:Process Ultrasonic Waveform?		----	YES	
VERS_ADN	ADN Downhole Software Version		----	8.300	
WSDI	Window Size of Dynamic Normalization Image		M	4.572	

Schlumberger Drilling &amp; Measurements

ID13 Parameter Insert Header Software version 3.0c

## Fermat-1 RM 500MD Log

ARC6A-AA id13\_0c\_02 MWD\_10 id13\_0c\_02  
ADN id13\_0c\_02

Format: VISION Density Neutron RM Log Vertical Scale: 1:500 Graphics File Created: 14-Jan-2009 16:29

### PIP SUMMARY

Neutron Samples +

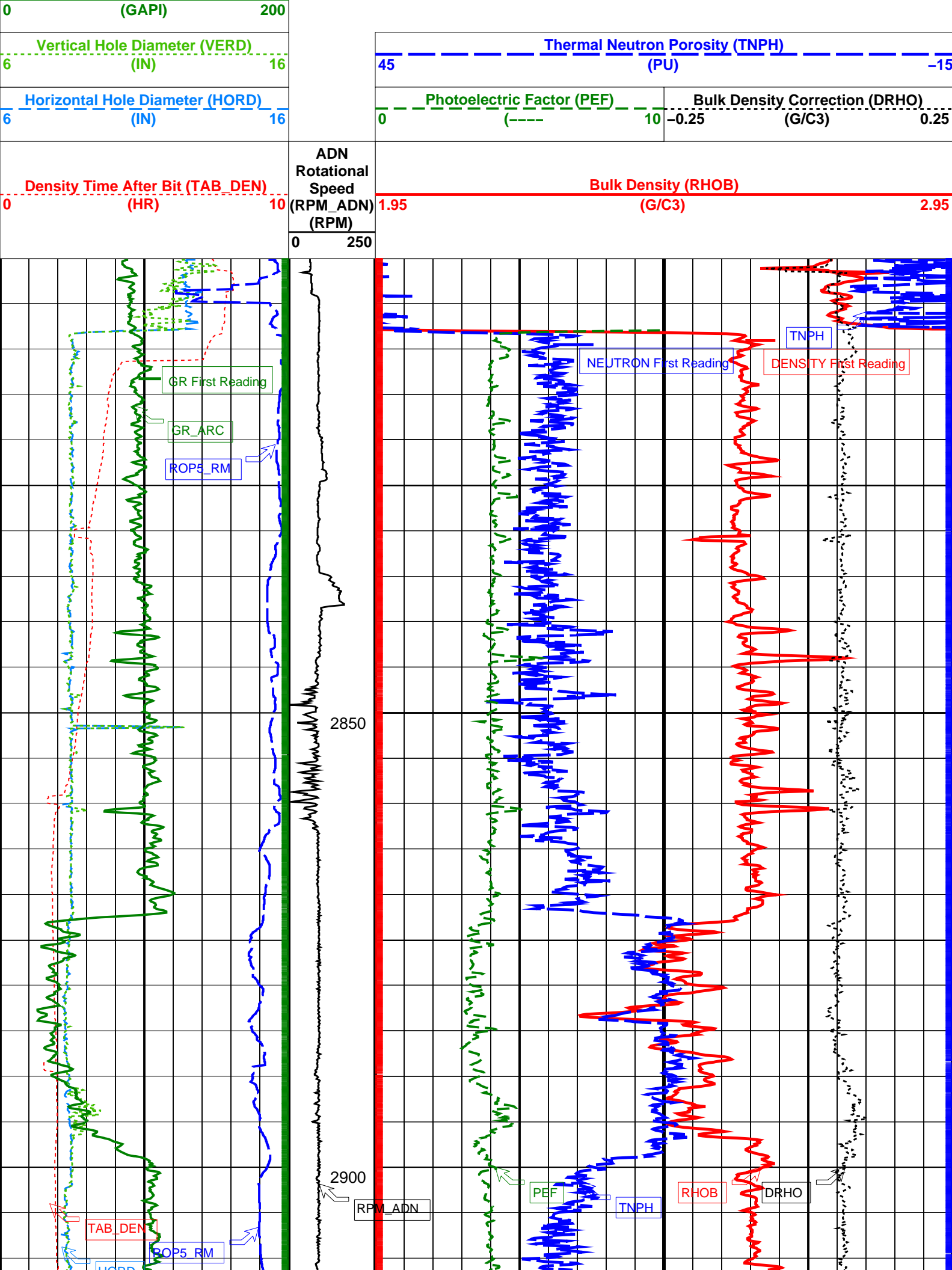
+ Density Samples

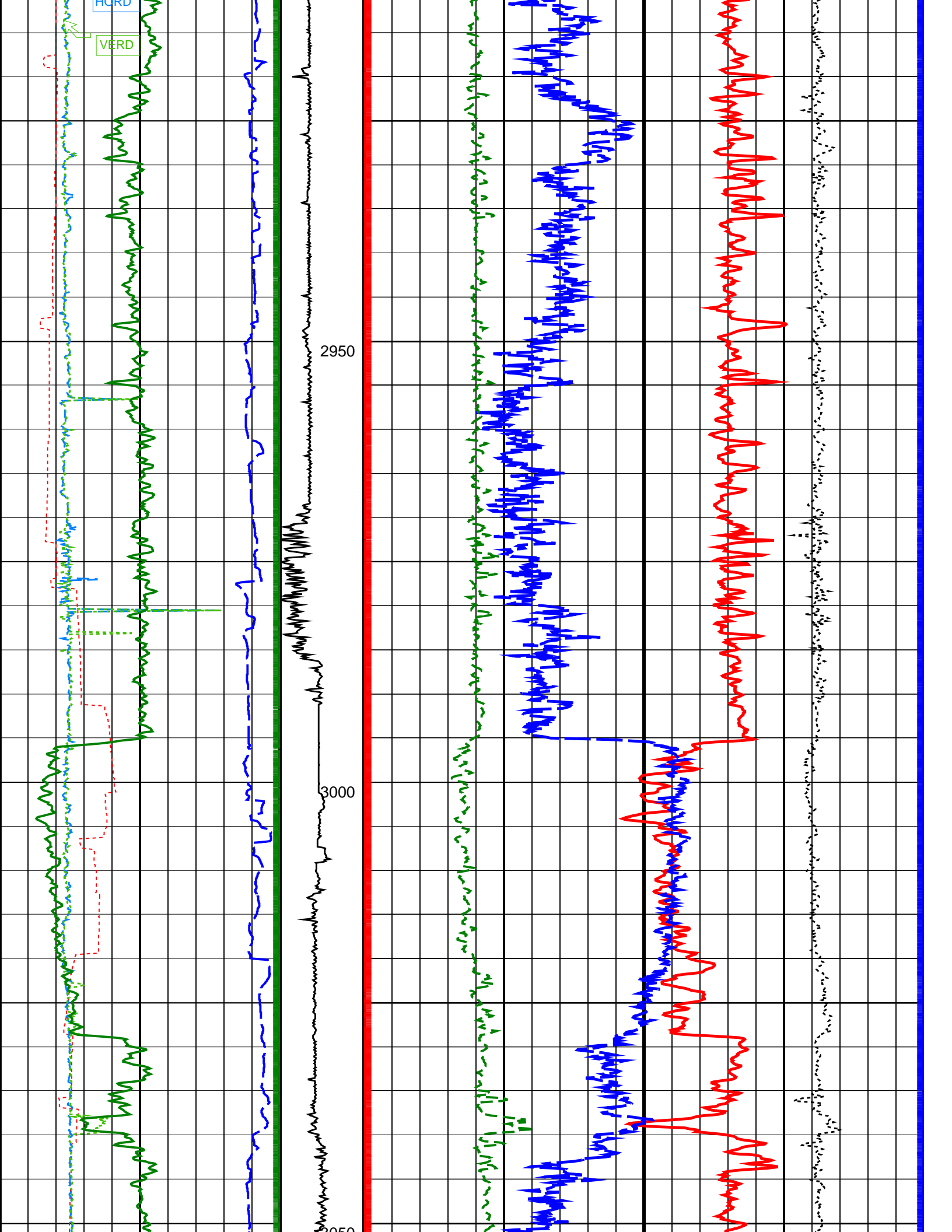
+ ARC Gamma Ray Samples

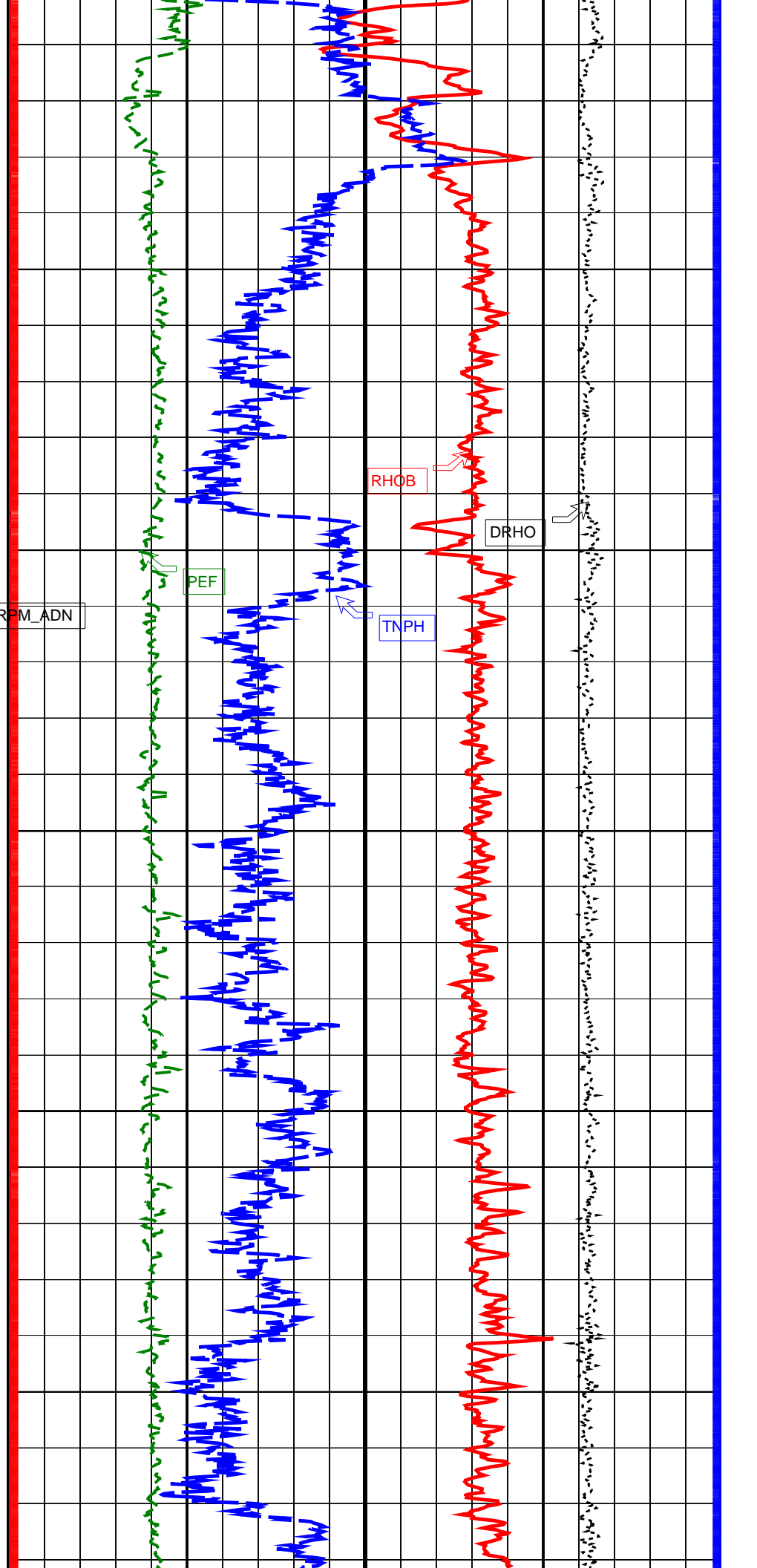
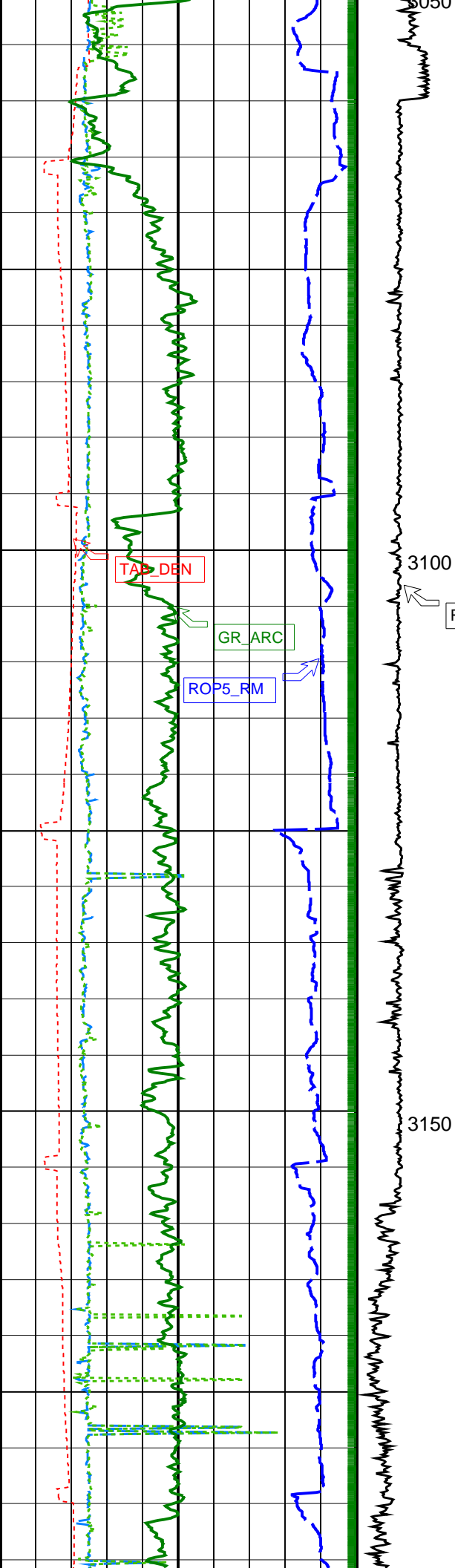
Rate of Penetration, Averaged over Last  
5ft (ROP5\_RM)

200 (M/HR) 0

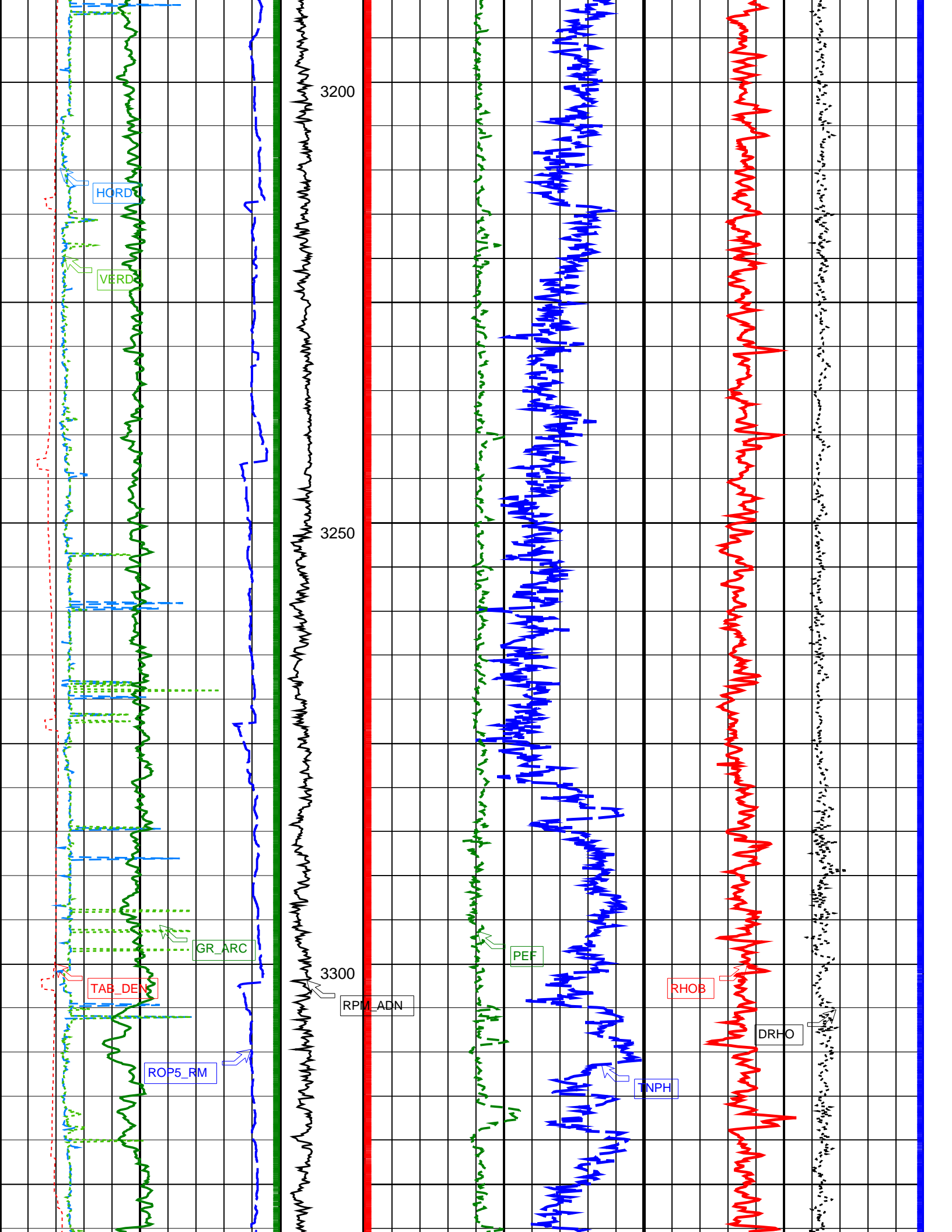
ARC Gamma Ray (GR\_ARC)

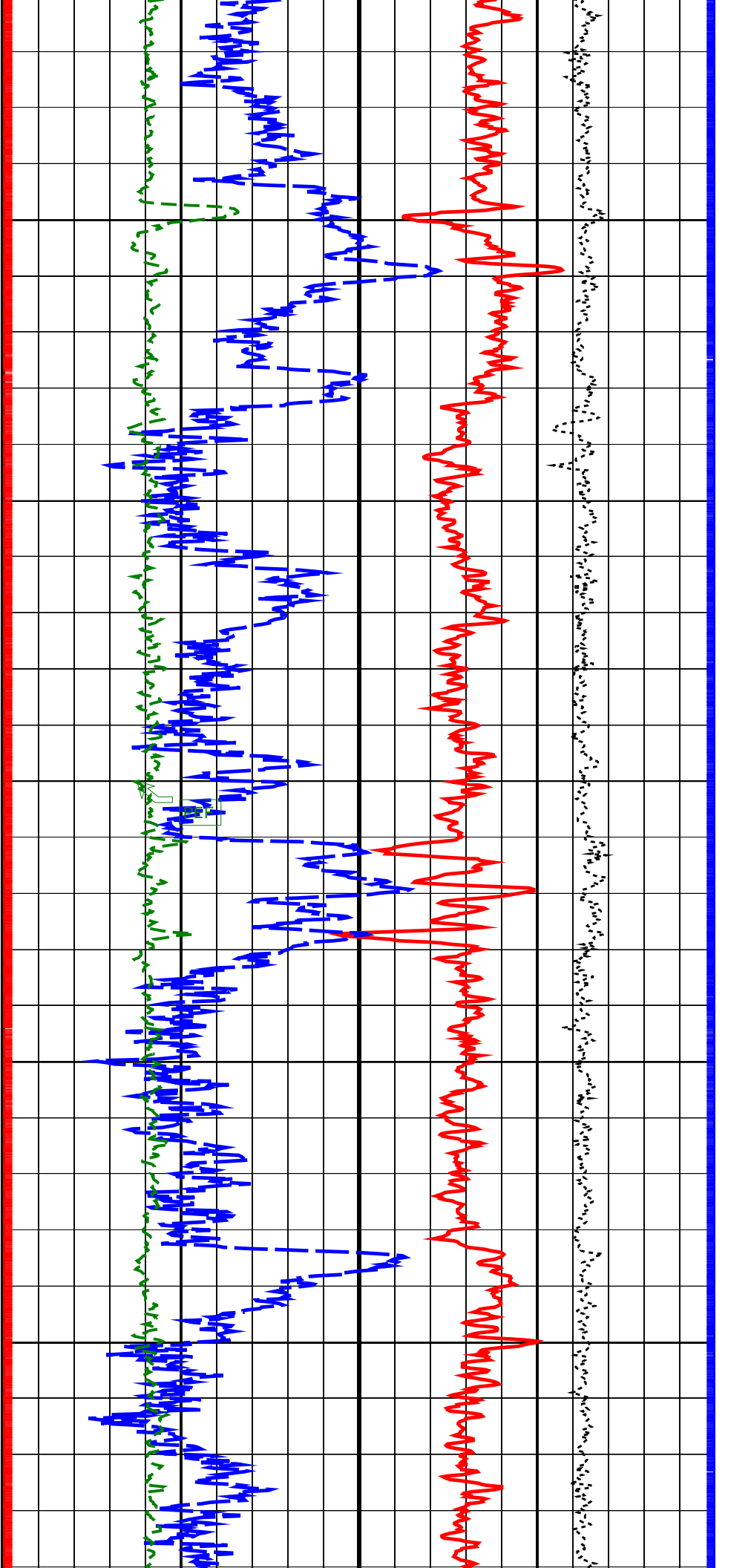
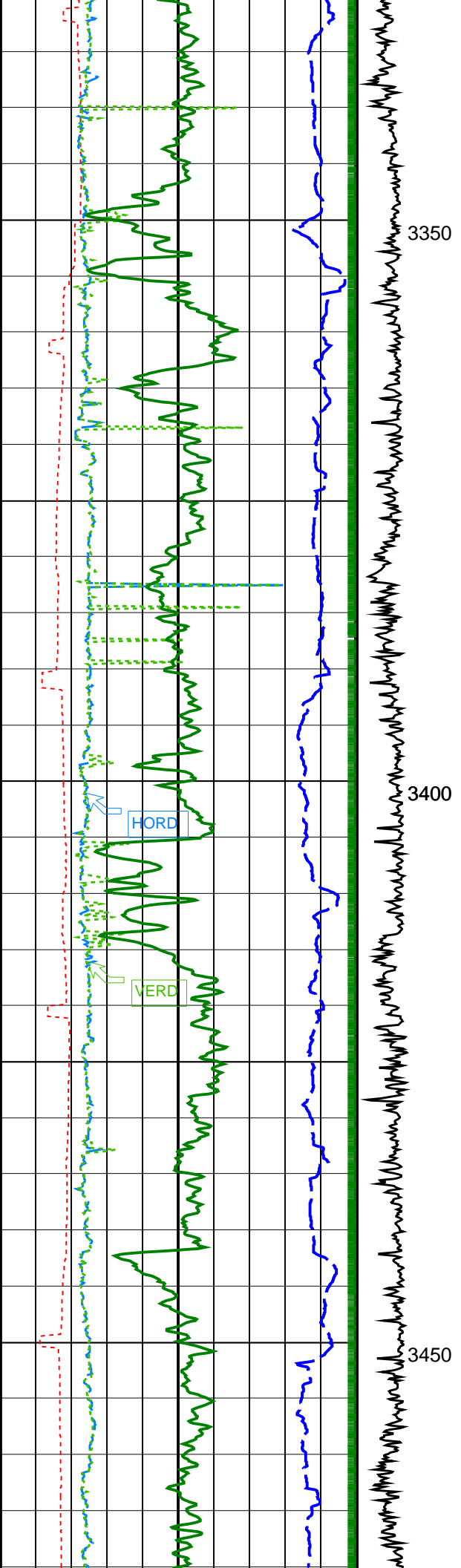


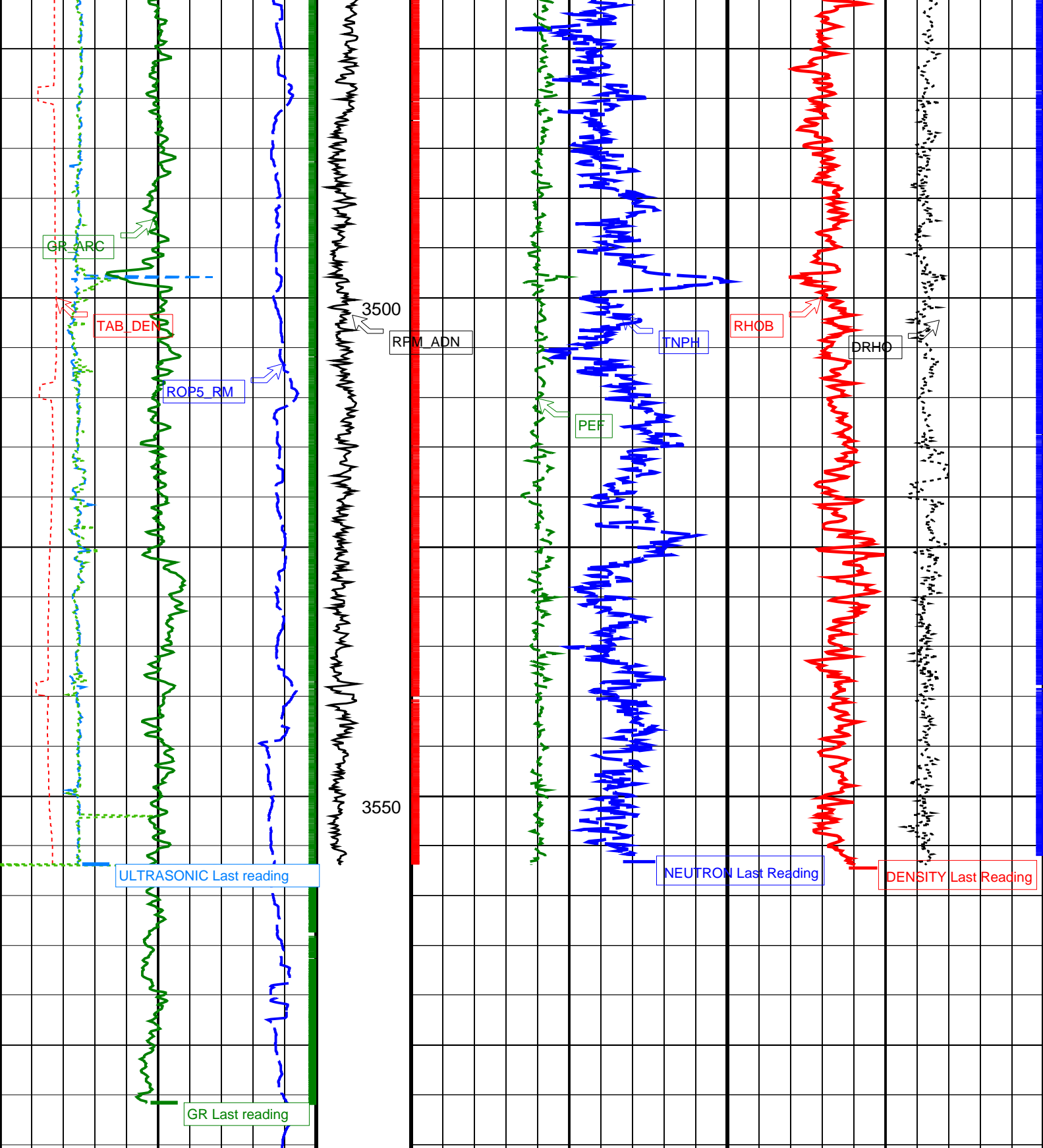












Density Time After Bit (TAB_DEN) (HR)		Bulk Density (RHOB) (G/C3)	
0 10		1.95 2.95	
ADN Rotational Speed (RPM_ADN) (RPM)			
0 250			
Horizontal Hole Diameter (HORD) (IN)		Photoelectric Factor (PEF) (-----)	Bulk Density Correction (DRHO) (G/C3)
6 16		0 10	-0.25 0.25
Vertical Hole Diameter (VERD) (IN)		Thermal Neutron Porosity (TNPH) (PU)	
6 16		45 -15	

ARC Gamma Ray (GR_ARC)		
0	(GAPI)	200
Rate of Penetration, Averaged over Last 5ft (ROP5_RM)		
200	(M/HR)	0

<div> <div>PIP SUMMARY</div> <div> <div>Neutron Samples</div> <div> <div>Density Samples</div> <div>ARC Gamma Ray Samples</div> </div> </div> </div>		
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<div> <div>IDEAL Version: ID13_0C_14</div> <div>IDF</div> </div>			
ARC6A-AA	id13_0c_02	MWD_10	id13_0c_02
ADN	id13_0c_02		

6.75-in. Azimuthal Density Neutron / Equipment Identification			
<div> <div>Primary Equipment:</div> <div> <div>Tool Name and Serial Number</div> <div>Collar Type and Serial Number</div> <div>Chassis Type and Serial Number</div> <div>Stabilizer Type and Serial Number</div> <div>Neutron Logging Source</div> <div>Density Logging Source</div> <div>Stabilizer Size</div> <div>Calibration Status</div> </div> </div>		<div> <div>ADN6 – CA</div> <div>ADDC – AA</div> <div>ADSE – EA</div> <div>–</div> <div>NSR – M</div> <div>GSR – J/Z</div> <div>8.125 – in.</div> <div>AUTO –</div> </div>	<div> <div>40778</div> <div>1</div> <div>202</div> <div>1994</div> </div>

Master: 28–Nov–2008 20:21														
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	<div><div></div></div>			964.4	Master	<div><div></div></div>			2401	Master	<div><div></div></div>			5838
	250.0	4125	8000		700.0	9350	18000		2500	23750	45000			
	(Minimum)	(Nominal)	(Maximum)		(Minimum)	(Nominal)	(Maximum)		(Minimum)	(Nominal)	(Maximum)			


Master: 28–Nov–2008 20:21														
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	<div><div></div></div>			141.9	Master	<div><div></div></div>			1197	Master	<div><div></div></div>			3620
	50.00	725.0	1400			500.0	4250	8000			1500	15750	30000	
	(Minimum)	(Nominal)	(Maximum)			(Minimum)	(Nominal)	(Maximum)			(Minimum)	(Nominal)	(Maximum)	

Master: 28–Nov–2008 20:21														
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	<div><div></div></div>			31.40	Master	<div><div></div></div>			98.89	Master	<div><div></div></div>			438.6
	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: 28–Nov–2008 20:21							
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	<div><div></div></div>		1.030	Master	<div><div></div></div>		1.111
	1.030 (Minimum)	1.045 (Nominal)	1.060 (Maximum)		1.101 (Minimum)	1.131 (Nominal)	1.161 (Maximum)

Master: 28–Nov–2008 20:21														
6.75–in. Azimuthal Density Neutron Calibration														
Neutron: 3–Point Calibration														
Phase	Far 1 tube 1 Air	Point Measure	CPS	Value	Phase	Far 1 tube 1 Rod	Point Measure	CPS	Value	Phase	Far 1 tube 1 H2O	Point Measure	CPS	Value
Master		<div></div>		17.00	Master		<div></div>		4.212	Master		<div></div>		1.965
	13.30 (Minimum)	19.05 (Nominal)	24.70 (Maximum)			3.400 (Minimum)	4.857 (Nominal)	6.200 (Maximum)			1.600 (Minimum)	2.363 (Nominal)	3.100 (Maximum)	

Phase	Far 1 tube 2 Air Point Measure	CPS	Value	Phase	Far 1 tube 2 Rod Point Measure	CPS	Value	Phase	Far 1 tube 2 H2O Point Measure	CPS	Value
Master			17.35	Master			4.285	Master			1.995
	13.30 (Minimum)	19.05 (Nominal)	24.70 (Maximum)		3.400 (Minimum)	4.857 (Nominal)	6.200 (Maximum)		1.600 (Minimum)	2.363 (Nominal)	3.100 (Maximum)
Phase	Far 1 tube 3 Air Point Measure	CPS	Value	Phase	Far 1 tube 3 Rod Point Measure	CPS	Value	Phase	Far 1 tube 3 H2O Point Measure	CPS	Value
Master			16.99	Master			4.138	Master			1.941
	13.30 (Minimum)	19.05 (Nominal)	24.70 (Maximum)		3.400 (Minimum)	4.857 (Nominal)	6.200 (Maximum)		1.600 (Minimum)	2.363 (Nominal)	3.100 (Maximum)
Phase	Far 2 tube 1 Air Point Measure	CPS	Value	Phase	Far 2 tube 1 Rod Point Measure	CPS	Value	Phase	Far 2 tube 1 H2O Point Measure	CPS	Value
Master			17.20	Master			4.137	Master			2.010
	13.30 (Minimum)	19.05 (Nominal)	24.70 (Maximum)		3.400 (Minimum)	4.857 (Nominal)	6.200 (Maximum)		1.600 (Minimum)	2.363 (Nominal)	3.100 (Maximum)
Phase	Far 2 tube 2 Air Point Measure	CPS	Value	Phase	Far 2 tube 2 Rod Point Measure	CPS	Value	Phase	Far 2 tube 2 H2O Point Measure	CPS	Value
Master			17.72	Master			4.203	Master			2.005
	13.30 (Minimum)	19.05 (Nominal)	24.70 (Maximum)		3.400 (Minimum)	4.857 (Nominal)	6.200 (Maximum)		1.600 (Minimum)	2.363 (Nominal)	3.100 (Maximum)
Phase	Far 2 tube 3 Air Point Measure	CPS	Value	Phase	Far 2 tube 3 Rod Point Measure	CPS	Value	Phase	Far 2 tube 3 H2O Point Measure	CPS	Value
Master			16.84	Master			4.278	Master			2.100
	13.30 (Minimum)	19.05 (Nominal)	24.70 (Maximum)		3.400 (Minimum)	4.857 (Nominal)	6.200 (Maximum)		1.600 (Minimum)	2.363 (Nominal)	3.100 (Maximum)
Phase	Near 1 tube 1 Air Point Measure	CPS	Value	Phase	Near 1 tube 1 Rod Point Measure	CPS	Value	Phase	Near 1 tube 1 H2O Point Measure	CPS	Value
Master			448.2	Master			708.3	Master			311.5
	345.0 (Minimum)	487.5 (Nominal)	595.0 (Maximum)		535.0 (Minimum)	768.8 (Nominal)	925.0 (Maximum)		230.0 (Minimum)	343.7 (Nominal)	430.0 (Maximum)
Phase	Near 2 tube 1 Air Point Measure	CPS	Value	Phase	Near 2 tube 1 Rod Point Measure	CPS	Value	Phase	Near 2 tube 1 H2O Point Measure	CPS	Value
Master			443.3	Master			713.2	Master			310.9
	345.0 (Minimum)	487.5 (Nominal)	595.0 (Maximum)		535.0 (Minimum)	768.8 (Nominal)	925.0 (Maximum)		230.0 (Minimum)	343.7 (Nominal)	430.0 (Maximum)

Master: 28-Nov-2008 20:21			
6.75-in. Azimuthal Density Neutron Calibration			
Neutron: Water Block Check			
Phase	Far Neutron water porosity PU		Value
Master			95.95
	90.00 (Minimum)	100.0 (Nominal)	125.0 (Maximum)

SCHLUMBERGER	
Survey report	14-Jan-2009 10:12:39
Client.....: Beach Petroleum Ltd	
Field.....: Fermat	
Well.....: Fermat-1	Spud date.....: 13-Dec-2008
Job number.....: 08ASQ0034	Last survey date.....: 14-Jan-09
Engineer.....: Joshua Seevaratnam	Total accepted surveys...: 104
	MD of first survey.....: 0.00 m
	MD of last survey.....: 3585.00 m
West Triton.....: West Triton	
State.....: Victoria	
----- Survey calculation methods-----	----- Geomagnetic data -----
Method for positions.....: Minimum curvature	Magnetic model.....: BGGM version 2008
Method for DLS.....: Mason & Taylor	Magnetic date.....: 15-Dec-2008
----- Depth reference -----	Magnetic field strength...: 1214.44 HCNT
Permanent datum.....: Mean Sea Level	Magnetic dec (+E/W-).....: 9.87 degrees
Depth reference.....: Driller's Depth	Magnetic dip.....: -69.62 degrees
GL above permanent.....: -38.00 m	----- MWD survey Reference Criteria -----
KB above permanent.....: 42.85 m	Reference G.....: 1000.02 mGal
DF above permanent.....: 42.85 m	Reference H.....: 1214.44 HCNT
----- Vertical section origin-----	Reference Dip.....: -69.62 degrees
Latitude (+N/S-).....: 0.00 m	Tolerance of G.....: (+/-) 2.50 mGal
Departure (+E/W-).....: 0.00 m	Tolerance of H.....: (+/-) 6.00 HCNT
----- Platform reference point-----	Tolerance of Dip.....: (+/-) 0.45 degrees
Latitude (+N/S-).....: 0.00 m	----- Corrections -----
Departure (+E/W-).....: 0.00 m	Magnetic dec (+E/W-).....: 9.87 degrees
Azimuth from Vsect Origin to target: 0.00 degrees	Grid convergence (+E/W-)..: -0.03 degrees
	Total az corr (+E/W-)....: 9.90 degrees
	(Total az corr = magnetic dec - grid conv)
	Survey Correction Type ...:
	I=Sag Corrected Inclination
	M=Schlumberger Magnetic Correction
	S=Shell Magnetic Correction
	F=Failed Axis Correction
	R=Magnetic Resonance Tool Correction
	D=Dmag Magnetic Correction

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 Corr (deg)
1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	TIP	None
2	167.75	1.24	1.78	167.75	167.74	1.81	1.81	0.06	1.82	1.78	0.07	PUP	None
3	197.16	0.28	58.77	29.41	197.14	2.17	2.17	0.13	2.17	3.37	0.38	PUP	None
4	256.53	0.60	153.30	59.37	256.51	1.97	1.97	0.39	2.01	11.25	0.11	PUP	None
5	286.11	2.77	188.85	29.58	286.08	1.12	1.12	0.35	1.18	17.37	0.78	PUP	None
6	315.55	1.66	227.88	29.44	315.50	0.13	0.13	-0.07	0.15	330.76	0.62	PUP	None
7	345.27	0.27	15.10	29.72	345.21	-0.09	-0.09	-0.38	0.39	256.86	0.64	PUP	None
8	374.62	0.25	25.51	29.35	374.56	0.04	0.04	-0.33	0.33	276.37	0.02	PUP	None
9	404.16	1.88	211.90	29.54	404.10	-0.32	-0.32	-0.56	0.64	240.47	0.72	PUP	None
10	463.95	0.32	269.03	59.79	463.88	-1.15	-1.15	-1.24	1.70	227.20	0.29	PUP	None
11	493.39	0.43	249.60	29.44	493.32	-1.19	-1.19	-1.43	1.86	230.18	0.06	PUP	None
12	523.07	0.44	347.74	29.68	523.00	-1.12	-1.12	-1.56	1.92	234.31	0.22	PUP	None
13	552.74	0.22	270.06	29.67	552.67	-1.01	-1.01	-1.64	1.92	238.42	0.15	PUP	None
14	582.42	0.09	59.69	29.68	582.35	-1.00	-1.00	-1.68	1.95	239.28	0.10	PUP	None
15	611.99	0.51	339.54	29.57	611.92	-0.86	-0.86	-1.70	1.91	243.17	0.17	PUP	None
16	641.40	0.19	327.69	29.41	641.32	-0.70	-0.70	-1.77	1.91	248.54	0.11	PUP	None
17	670.88	0.49	288.55	29.48	670.80	-0.62	-0.62	-1.92	2.02	252.21	0.12	PUP	None
18	700.49	0.33	247.43	29.61	700.41	-0.61	-0.61	-2.12	2.20	253.98	0.11	PUP	None
19	729.55	0.46	275.90	29.06	729.47	-0.63	-0.63	-2.31	2.40	254.79	0.08	PUP	None
20	759.18	0.36	241.87	29.63	759.10	-0.66	-0.66	-2.51	2.60	255.28	0.09	PUP	None
21	788.76	0.65	163.00	29.58	788.68	-0.86	-0.86	-2.54	2.69	251.24	0.23	PUP	None
22	818.32	0.12	122.27	29.56	818.24	-1.04	-1.04	-2.47	2.68	247.14	0.19	PUP	None
23	848.13	0.24	67.63	29.81	848.05	-1.03	-1.03	-2.39	2.60	246.57	0.07	PUP	None
24	877.69	0.50	112.18	29.56	877.61	-1.06	-1.06	-2.21	2.45	244.38	0.13	PUP	None
25	906.92	0.33	214.11	29.23	906.84	-1.18	-1.18	-2.14	2.44	241.17	0.22	PUP	None
26	936.44	1.52	212.18	29.52	936.35	-1.58	-1.58	-2.39	2.87	236.60	0.40	PUP	None
27	966.55	2.74	216.55	30.11	966.44	-2.49	-2.49	-3.04	3.93	230.58	0.41	PUP	None
28	990.90	2.28	226.38	24.35	990.77	-3.30	-3.30	-3.73	4.98	228.55	0.26	PUP	None
29	1023.76	2.63	224.84	32.86	1023.60	-4.28	-4.28	-4.74	6.39	227.89	0.11	PUP	None
30	1053.62	2.63	224.67	29.86	1053.43	-5.26	-5.26	-5.70	7.75	227.34	0.00	PUP	None

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 Corr (deg)
31	1083.09	2.60	225.86	29.47	1082.87	-6.20	-6.20	-6.66	9.10	227.03	0.02	PUP	None
32	1112.27	2.75	224.69	29.18	1112.02	-7.16	-7.16	-7.62	10.46	226.80	0.05	PUP	None
33	1141.71	2.61	223.95	29.44	1141.42	-8.14	-8.14	-8.59	11.83	226.51	0.05	PUP	None
34	1171.39	2.66	223.44	29.68	1171.07	-9.13	-9.13	-9.53	13.20	226.22	0.02	PUP	None
35	1200.78	2.64	223.80	29.39	1200.43	-10.12	-10.12	-10.47	14.56	225.98	0.01	PUP	None
36	1230.79	2.72	225.15	30.01	1230.41	-11.12	-11.12	-11.45	15.96	225.85	0.03	PUP	None
37	1288.88	2.77	225.56	58.09	1288.43	-13.07	-13.07	-13.43	18.74	225.77	0.01	PUP	None
38	1318.86	2.69	226.89	29.98	1318.38	-14.06	-14.06	-14.46	20.17	225.81	0.03	PUP	None
39	1407.48	2.91	229.04	88.62	1406.89	-16.95	-16.95	-17.68	24.49	226.19	0.03	PUP	None
40	1436.37	2.94	228.54	28.89	1435.74	-17.93	-17.93	-18.79	25.97	226.34	0.01	PUP	None
41	1465.90	3.02	227.97	29.53	1465.23	-18.95	-18.95	-19.93	27.50	226.45	0.03	PUP	None
42	1495.44	3.02	228.27	29.54	1494.73	-19.99	-19.99	-21.09	29.06	226.54	0.01	PUP	None
43	1525.13	3.06	228.31	29.69	1524.38	-21.03	-21.03	-22.27	30.63	226.63	0.01	PUP	None
44	1554.71	3.12	227.55	29.58	1553.92	-22.10	-22.10	-23.45	32.22	226.69	0.02	PUP	None
45	1584.40	3.16	227.33	29.69	1583.56	-23.20	-23.20	-24.65	33.85	226.73	0.01	PUP	None
46	1614.18	3.15	227.26	29.78	1613.30	-24.31	-24.31	-25.85	35.49	226.75	0.00	PUP	None
47	1643.45	3.22	227.15	29.27	1642.52	-25.42	-25.42	-27.04	37.12	226.77	0.02	PUP	None
48	1732.53	3.23	229.06	89.08	1731.46	-28.77	-28.77	-30.77	42.12	226.93	0.01	PUP	None
49	1761.71	3.31	229.32	29.18	1760.59	-29.85	-29.85	-32.03	43.79	227.02	0.03	PUP	None
50	1791.33	3.27	229.40	29.62	1790.17	-30.96	-30.96	-33.32	45.49	227.11	0.01	PUP	None
51	1820.98	3.35	229.44	29.65	1819.77	-32.07	-32.07	-34.62	47.20	227.19	0.03	PUP	None
52	1880.19	3.46	227.97	59.21	1878.87	-34.40	-34.40	-37.27	50.71	227.29	0.02	PUP	None
53	1939.47	3.51	227.37	59.28	1938.04	-36.82	-36.82	-39.93	54.32	227.32	0.01	PUP	None
54	2028.16	3.39	229.51	88.69	2026.57	-40.36	-40.36	-43.92	59.65	227.42	0.02	PUP	None
55	2057.35	3.37	231.70	29.19	2055.71	-41.46	-41.46	-45.25	61.37	227.51	0.04	PUP	None
56	2086.92	3.34	227.82	29.57	2085.23	-42.57	-42.57	-46.57	63.10	227.57	0.08	PUP	None
57	2116.75	3.44	227.04	29.83	2115.01	-43.77	-43.77	-47.87	64.86	227.56	0.04	PUP	None
58	2146.40	3.29	227.47	29.65	2144.61	-44.95	-44.95	-49.15	66.60	227.56	0.05	PUP	None
59	2175.52	3.42	228.06	29.12	2173.68	-46.09	-46.09	-50.41	68.31	227.56	0.05	PUP	None
60	2235.00	3.46	227.38	59.48	2233.05	-48.49	-48.49	-53.05	71.87	227.57	0.01	PUP	None

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 Corr (deg)
61	2264.44	3.46	226.56	29.44	2262.44	-49.71	-49.71	-54.35	73.65	227.56	0.02	PUP	None
62	2323.60	3.26	226.76	59.16	2321.49	-52.09	-52.09	-56.87	77.12	227.51	0.03	PUP	None
63	2382.70	3.36	228.47	59.10	2380.49	-54.39	-54.39	-59.39	80.53	227.52	0.02	PUP	None
64	2412.00	2.64	231.24	29.30	2409.75	-55.38	-55.38	-60.56	82.06	227.56	0.25	DMAG	None
65	2441.90	1.53	213.40	29.90	2439.63	-56.14	-56.14	-61.32	83.14	227.52	0.43	DMAG	None

66	2471.60	0.60	128.24	29.70	2469.33	-56.57	-56.57	-61.41	83.50	227.35	0.54	DMAG	None
67	2500.84	1.41	69.21	29.24	2498.57	-56.54	-56.54	-60.96	83.14	227.15	0.42	DMAG	None
68	2530.68	2.34	71.20	29.84	2528.39	-56.21	-56.21	-60.04	82.24	226.89	0.31	DMAG	None
69	2559.85	2.34	72.69	29.17	2557.54	-55.84	-55.84	-58.90	81.17	226.53	0.02	DMAG	None
70	2589.92	2.25	73.44	30.07	2587.58	-55.49	-55.49	-57.75	80.09	226.15	0.03	DMAG	None
71	2648.85	2.04	82.16	58.93	2646.47	-55.02	-55.02	-55.60	78.22	225.30	0.07	DMAG	None
72	2678.97	2.05	86.30	30.12	2676.57	-54.91	-54.91	-54.54	77.39	224.81	0.05	DMAG	None
73	2708.38	2.63	86.65	29.41	2705.96	-54.84	-54.84	-53.34	76.50	224.21	0.20	DMAG	None
74	2737.95	2.75	86.68	29.57	2735.49	-54.75	-54.75	-51.95	75.48	223.50	0.04	DMAG	None
75	2767.46	3.28	73.47	29.51	2764.96	-54.47	-54.47	-50.44	74.24	222.80	0.29	DMAG	None
76	2783.95	3.22	72.34	16.49	2781.43	-54.20	-54.20	-49.54	73.43	222.43	0.05	DMAG	None
77	2816.25	3.18	78.94	32.30	2813.68	-53.75	-53.75	-47.80	71.93	221.65	0.11	PUP	None
78	2845.87	3.21	82.42	29.62	2843.25	-53.48	-53.48	-46.17	70.66	220.80	0.07	PUP	None
79	2875.23	3.12	85.48	29.36	2872.57	-53.31	-53.31	-44.56	69.48	219.89	0.07	PUP	None
80	2904.72	3.04	88.56	29.49	2902.01	-53.23	-53.23	-42.98	68.41	218.92	0.06	PUP	None
81	2934.24	2.89	94.43	29.52	2931.49	-53.27	-53.27	-41.45	67.50	217.89	0.11	PUP	None
82	2963.69	2.77	103.77	29.45	2960.91	-53.49	-53.49	-40.02	66.81	216.80	0.16	PUP	None
83	2992.79	2.65	116.56	29.10	2989.98	-53.96	-53.96	-38.74	66.43	215.67	0.21	PUP	None
84	3022.28	2.80	118.01	29.49	3019.43	-54.61	-54.61	-37.49	66.24	214.47	0.06	PUP	None
85	3051.99	2.87	121.90	29.71	3049.11	-55.34	-55.34	-36.22	66.14	213.20	0.07	PUP	None
86	3081.57	2.92	130.18	29.58	3078.65	-56.22	-56.22	-35.01	66.23	211.92	0.14	PUP	None
87	3111.25	3.10	139.57	29.68	3108.29	-57.32	-57.32	-33.92	66.60	210.62	0.18	PUP	None
88	3140.79	3.39	147.97	29.54	3137.78	-58.66	-58.66	-32.94	67.28	209.31	0.19	PUP	None
89	3170.28	3.47	152.03	29.49	3167.22	-60.19	-60.19	-32.05	68.19	208.04	0.09	PUP	None
90	3199.75	3.55	146.04	29.47	3196.63	-61.74	-61.74	-31.13	69.14	206.76	0.13	PUP	None
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SCHLUMBERGER Survey Report													
14-Jan-2009 10:12:39													
==	=====	=====	=====	=====	=====	=====	=====	=====	=====	=====	=====	=====	=====
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	Corr
-	(m)	(deg)	(deg)	(m)	(m)	(m)	(m)	(m)	(m)	(deg)	10m)	type	(deg)
==	=====	=====	=====	=====	=====	=====	=====	=====	=====	=====	=====	=====	=====
91	3229.40	3.69	145.49	29.65	3226.22	-63.28	-63.28	-30.07	70.07	205.42	0.05	PUP	None
92	3259.28	3.79	146.43	29.88	3256.04	-64.90	-64.90	-28.98	71.08	204.06	0.04	PUP	None
93	3288.90	3.91	148.34	29.62	3285.59	-66.57	-66.57	-27.91	72.19	202.75	0.06	PUP	None
94	3318.10	4.02	150.54	29.20	3314.72	-68.31	-68.31	-26.89	73.41	201.48	0.06	PUP	None
95	3347.40	4.21	152.14	29.30	3343.95	-70.16	-70.16	-25.88	74.78	200.25	0.08	PUP	None
96	3376.97	4.39	156.43	29.57	3373.43	-72.15	-72.15	-24.92	76.34	199.05	0.12	PUP	None
97	3406.76	4.66	160.95	29.79	3403.13	-74.34	-74.34	-24.07	78.14	197.94	0.15	PUP	None
98	3436.14	5.16	162.03	29.38	3432.40	-76.73	-76.73	-23.27	80.18	196.87	0.17	PUP	None
99	3465.57	5.58	159.59	29.43	3461.70	-79.33	-79.33	-22.36	82.42	195.74	0.16	PUP	None
100	3495.57	6.02	157.91	30.00	3491.55	-82.15	-82.15	-21.26	84.86	194.51	0.16	PUP	None
101	3525.24	6.42	158.39	29.67	3521.05	-85.14	-85.14	-20.07	87.47	193.26	0.14	PUP	None
102	3555.17	6.99	159.59	29.93	3550.77	-88.40	-88.40	-18.81	90.38	192.02	0.20	PUP	None
103	3569.38	7.28	160.29	14.21	3564.87	-90.06	-90.06	-18.21	91.88	191.43	0.21	PUP	None
104	3585.00	7.28	160.29	15.62	3580.37	-91.92	-91.92	-17.54	93.58	190.80	0.00	Projection to TD	
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Company:

Well:

Field:

Rig:

State:

Beach Petroleum Ltd

Fermat–1

Fermat

West Triton

Victoria

Schlumberger

VISION Density Neutron

1:500 Measured Depth

Recorded Mode Log

