

Potassium										
Environmental data										
GR										
Mud weight	ppg	8.5	8.5							
Bit size	in.	9.875	9.875							
Resistivity										
Neutron porosity										
Hole Size	in.	9.875	9.875							
Mud weight	ppg	8.5	8.5							
Temperature	°C	31.37	7.84							
Mud salinity										
Formation salinity										
Recording rate 1	SEC	GR/Res/10								
Recording rate 2	SEC	Neu/Den/10								
Filtering GR		3 pt								
Filtering density		3 pt								
Filtering Neutron		3 pt								
Company representative		Dave Goldberg	Sanny Saito							
Anadrill personnel		N. Thaiprasert	Gary Ong							

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.

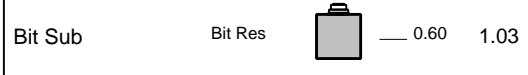
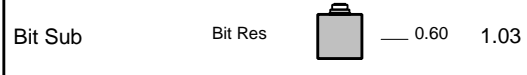
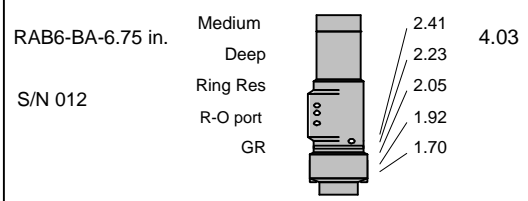
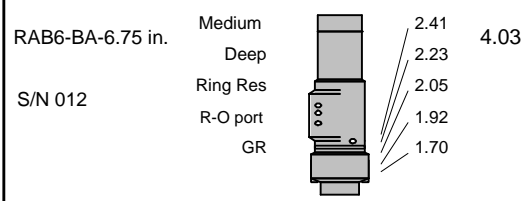
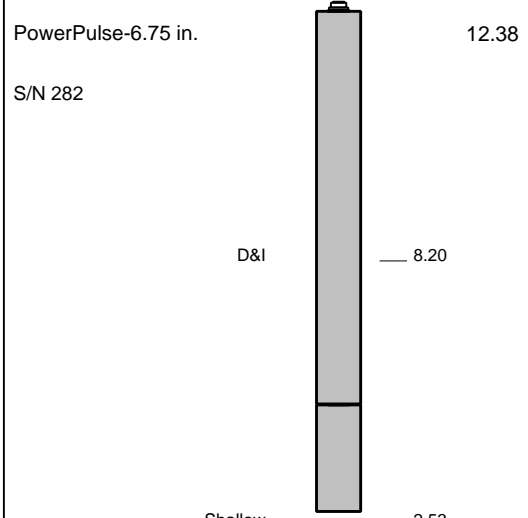
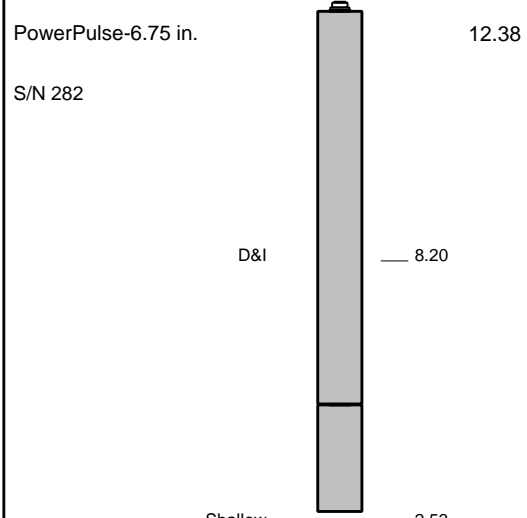
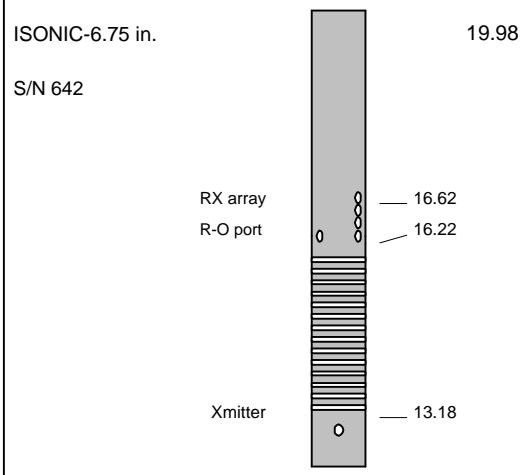
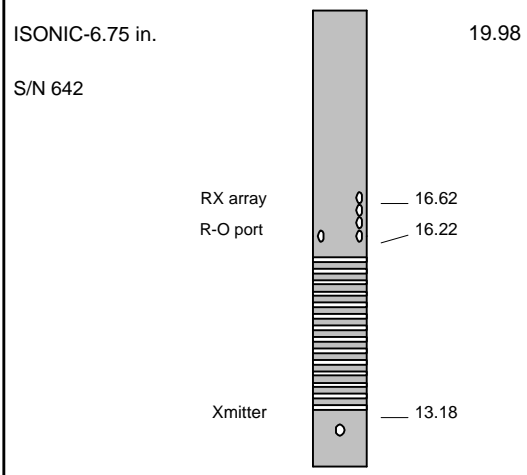
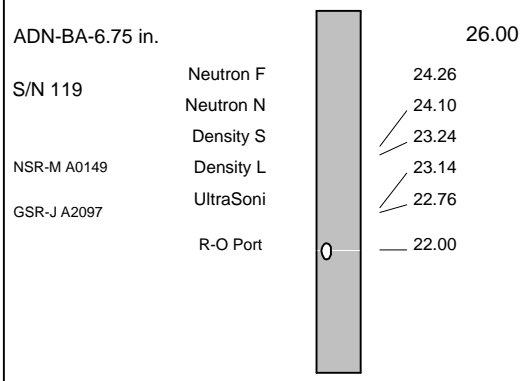
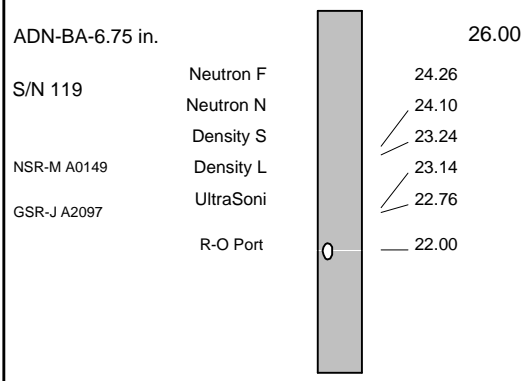
OTHER SERVICES FOR RUN 1 This is for Site 1173-B.	OTHER SERVICES FOR RUN 2 This is for Site 1173-C.	OTHER SERVICES FOR RUN
REMARKS: RUN NUMBER 1 Depth reference is Driller's depth. Sensor offsets and tools' serial number are described on the toolsketch below. Gamma Ray measurement is corrected for mud weight and bit size. RING_resistivity measurement are environmentally corrected. BIT_resistivity is good for qualitative interpretation only. Neutron Porosity is environmentally corrected for mud salinity, matrix density, temperature, bit size and tool size. Maximum bottom hole temperature was 31.37°C. ROP was slowed down to approximately 30 m/hr from 5152 m to 5252 m. Total depth was 5539 m.	REMARKS: RUN NUMBER 2 Depth reference is Driller's depth. Sensor offsets and tools' serial number are described on the toolsketch below. Gamma Ray measurement is corrected for mud weight and bit size. RING_resistivity measurement are environmentally corrected. BIT_resistivity is good for qualitative interpretation only. Neutron Porosity is environmentally corrected for mud salinity, matrix density, temperature, bit size and tool size. Maximum bottom hole temperature was 7.84°C. Total depth was 4976 m.	REMARKS: RUN NUMBER

EQUIPMENT DESCRIPTION

RUN1	RUN2	RUN

DOWNHOLE EQUIPMENT

DOWNHOLE EQUIPMENT



MAXIMUM STRING DIAMETER 9.875 in.

MAXIMUM STRING DIAMETER 9.875 in.

ALL LENGTHS IN METERS

ALL LENGTHS IN METERS

IDEAL Version: ID6_1C_08

IDF

RAB id6_1c_08

Format: RAB ADN 1:500 Vertical Scale: 1:500

Graphics File Created: 19-May-2001 19:48

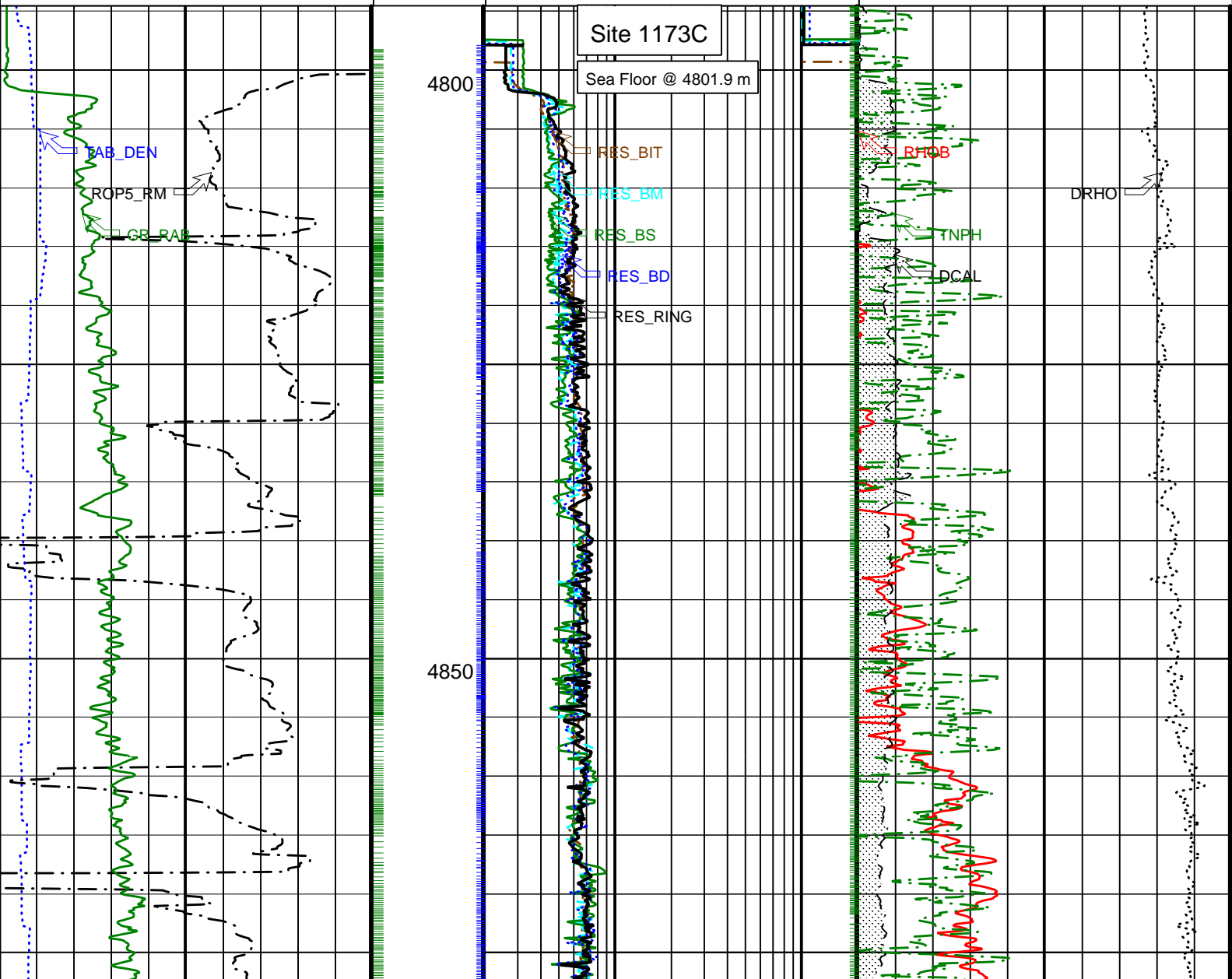
PIP SUMMARY

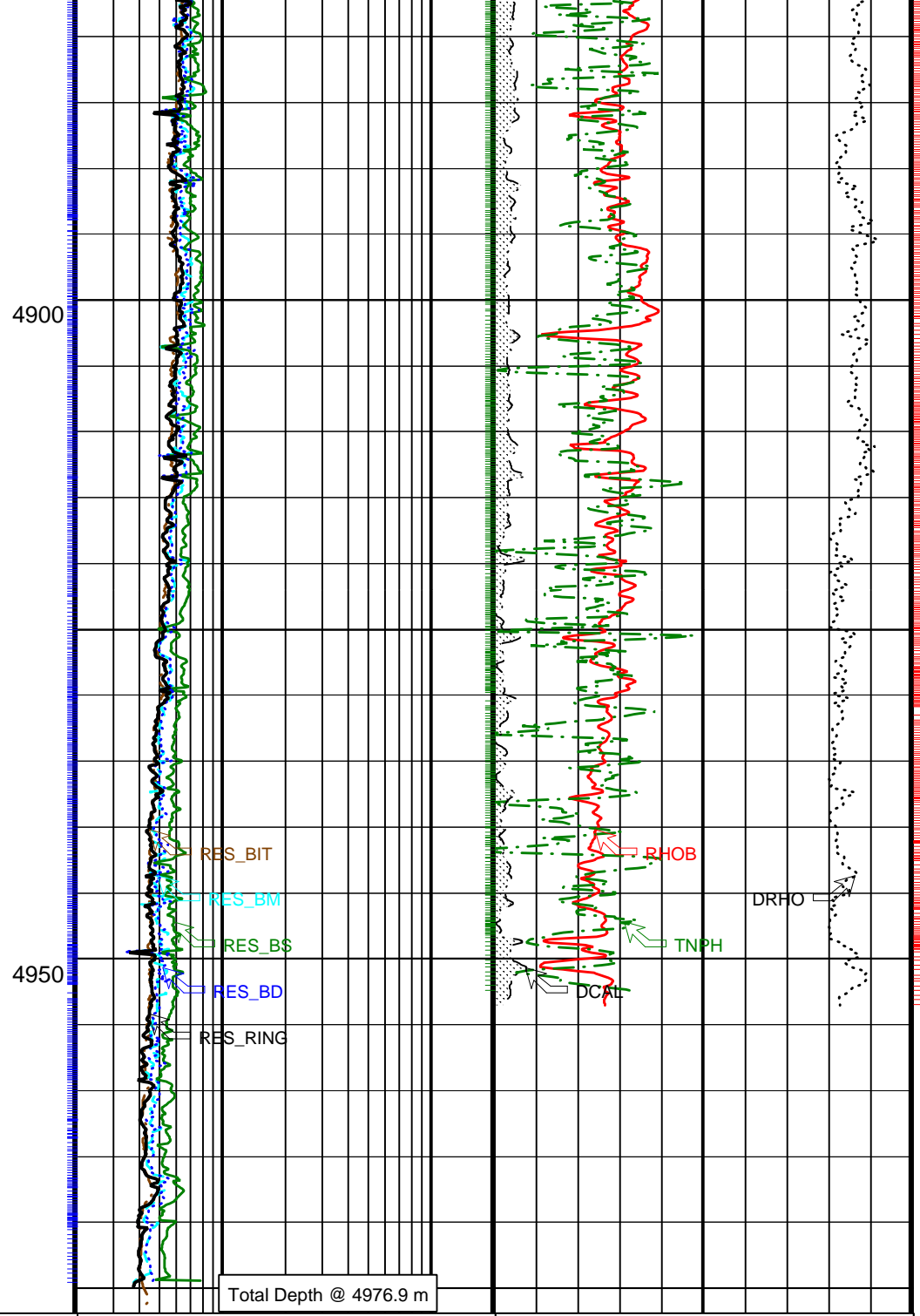
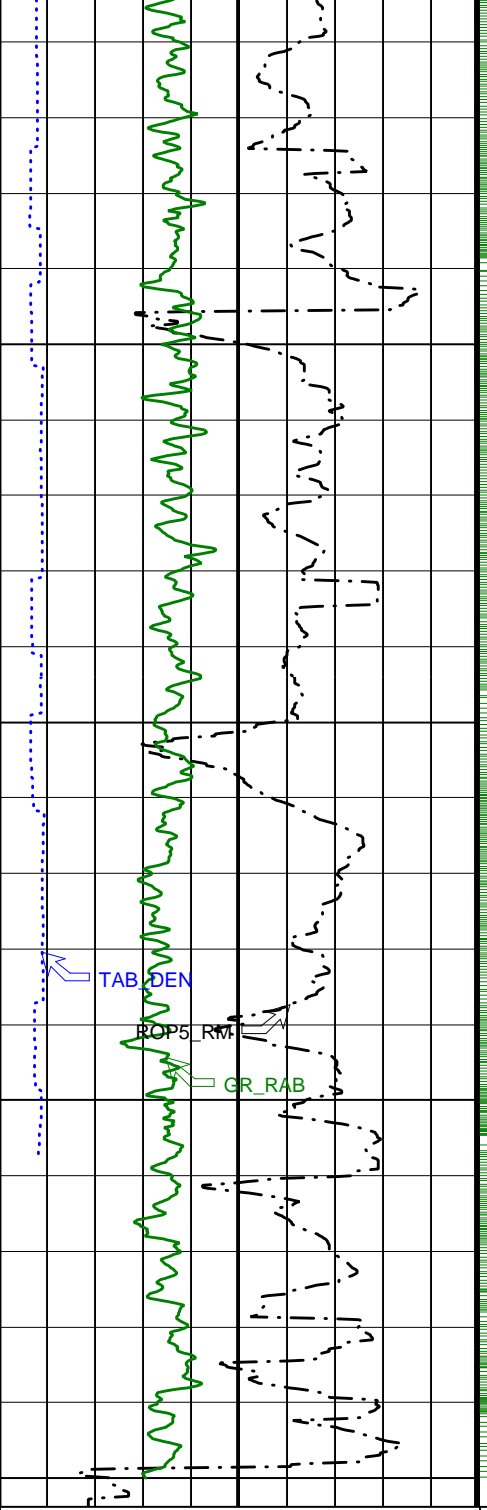
Density Ticks, 0.1-ft

Neutron Ticks, 0.1-ft

Gamma Ray Samples
RAB samples

	Ring Resistivity (RES_RING) 0.2 (OHMM) 20	
Rate of Penetration, Averaged over Last 5ft (ROP5_RM) 500 (F/HR) 0	Deep Button Resistivity (RES_BD) 0.2 (OHMM) 20	Differential Caliper (DCAL) 0 (IN) 20
RAB Gamma Ray (GR_RAB) 0 (GAPI) 150	Shallow Button Resistivity (RES_BS) 0.2 (OHMM) 20	Thermal Neutron Porosity (TNPH) 75 (PU) 15
Density Time After Bit (TAB_DEN) 0 (HR) 10	Medium Button Resistivity (RES_BM) 0.2 (OHMM) 20	Bulk Density Correction (DRHO) -0.8 (G/C3) 0.2
	Bit Resistivity (RES_BIT) 0.2 (OHMM) 20	Bulk Density (RHOB) 1.4 (G/C3) 2.4





Density Time After Bit (TAB_DEN) (HR)	0	10
RAB Gamma Ray (GR_RAB) (GAPI)	0	150
Rate of Penetration, Averaged over Last 5ft (ROP5_RM) (F/HR)	500	0

Bit Resistivity (RES_BIT) (OHMM)	0.2	20
Medium Button Resistivity (RES_BM) (OHMM)	0.2	20
Shallow Button Resistivity (RES_BS) (OHMM)	0.2	20
Deep Button Resistivity (RES_BD) (OHMM)	0.2	20
Ring Resistivity (RES_RING) (OHMM)	0.2	20

Bulk Density (RHOB) (G/C3)	1.4	2.4
Bulk Density Correction (DRHO) (G/C3)	-0.8	0.2
Thermal Neutron Porosity (TNPH) (PU)	75	15
Differential Caliper (DCAL) (IN)	0	20

Total Depth @ 4976.9 m

PIP SUMMARY

Gamma Ray Samples
 Neutron Ticks, 0.1-ft
 Density Ticks, 0.1-ft

IDEAL Version: ID6_1C_08
IDF

RAB id6_1c_08

IDEAL Version: ID6_1C_08
IDF

RAB id6_1c_08

Format: RAB ADN 1:500 Vertical Scale: 1:500

Graphics File Created: 19-May-2001 19:40

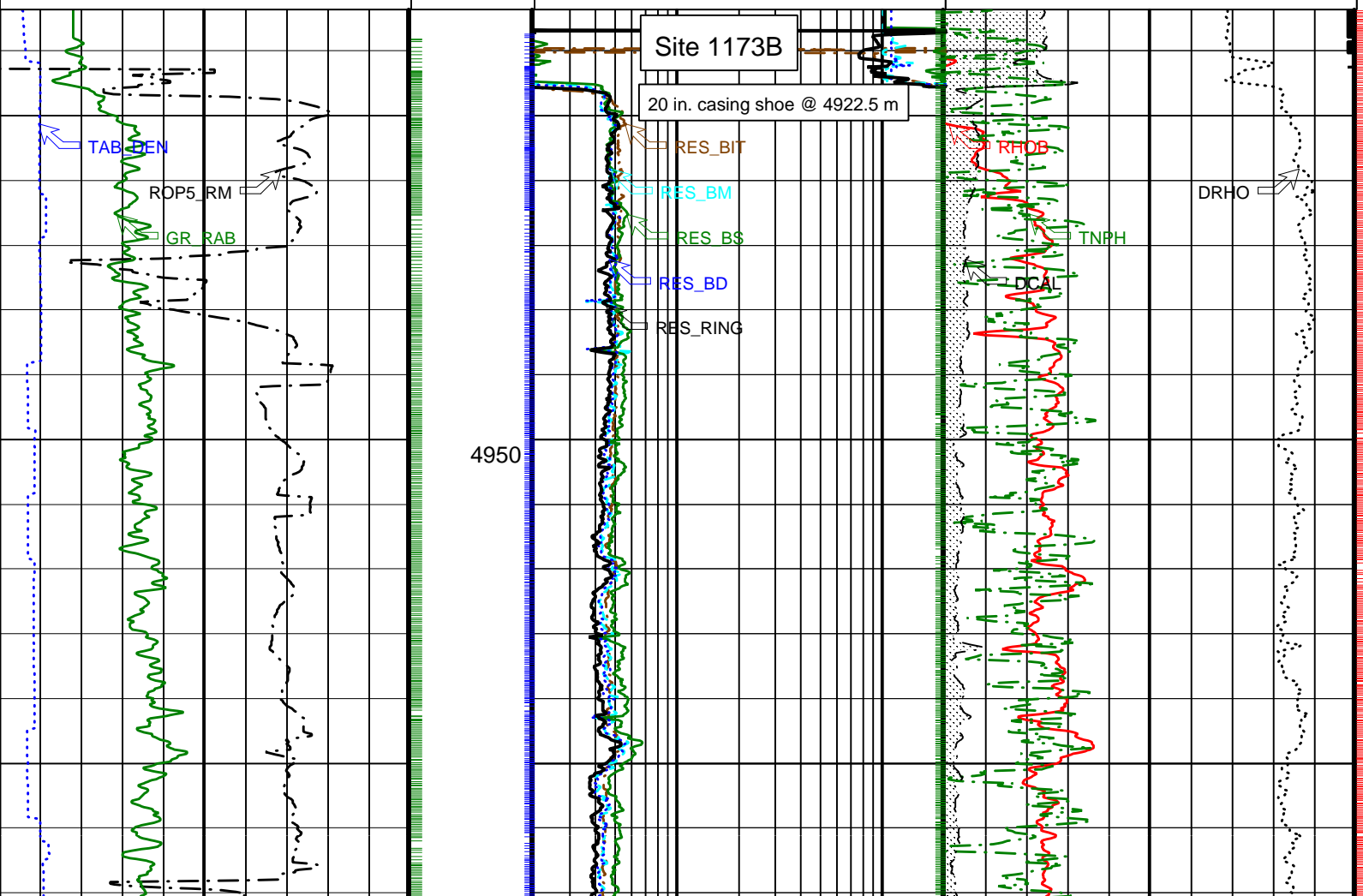
PIP SUMMARY

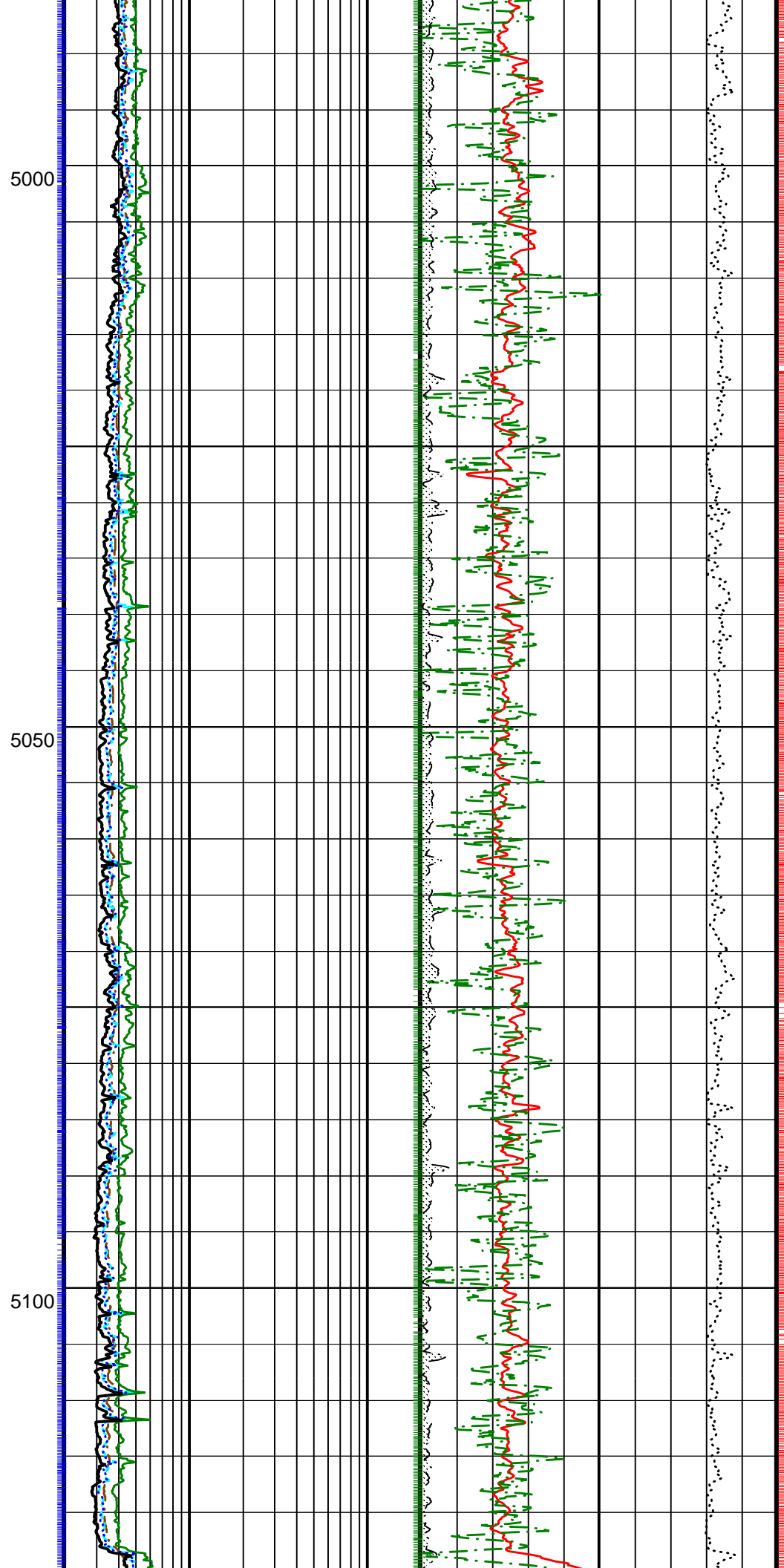
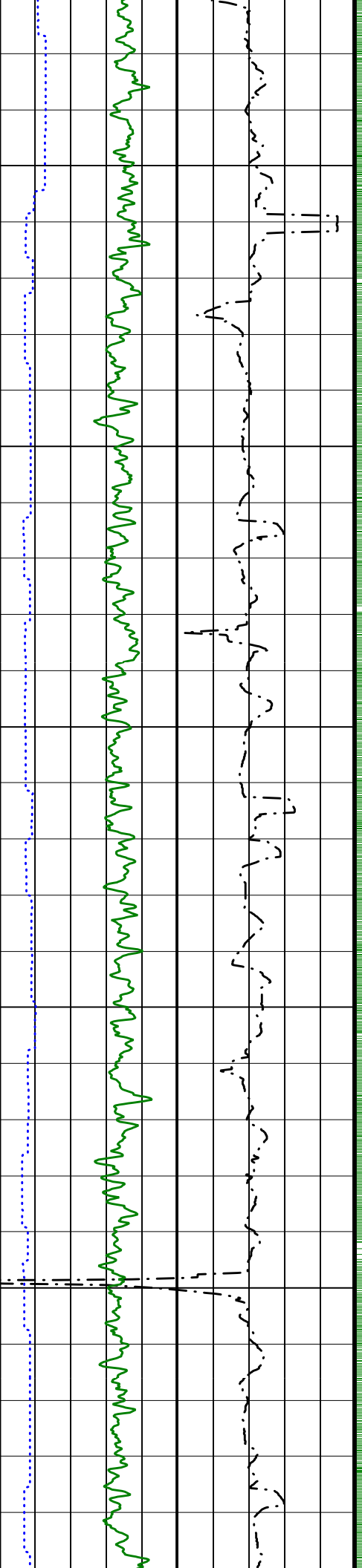
Density Ticks, 0.1-ft

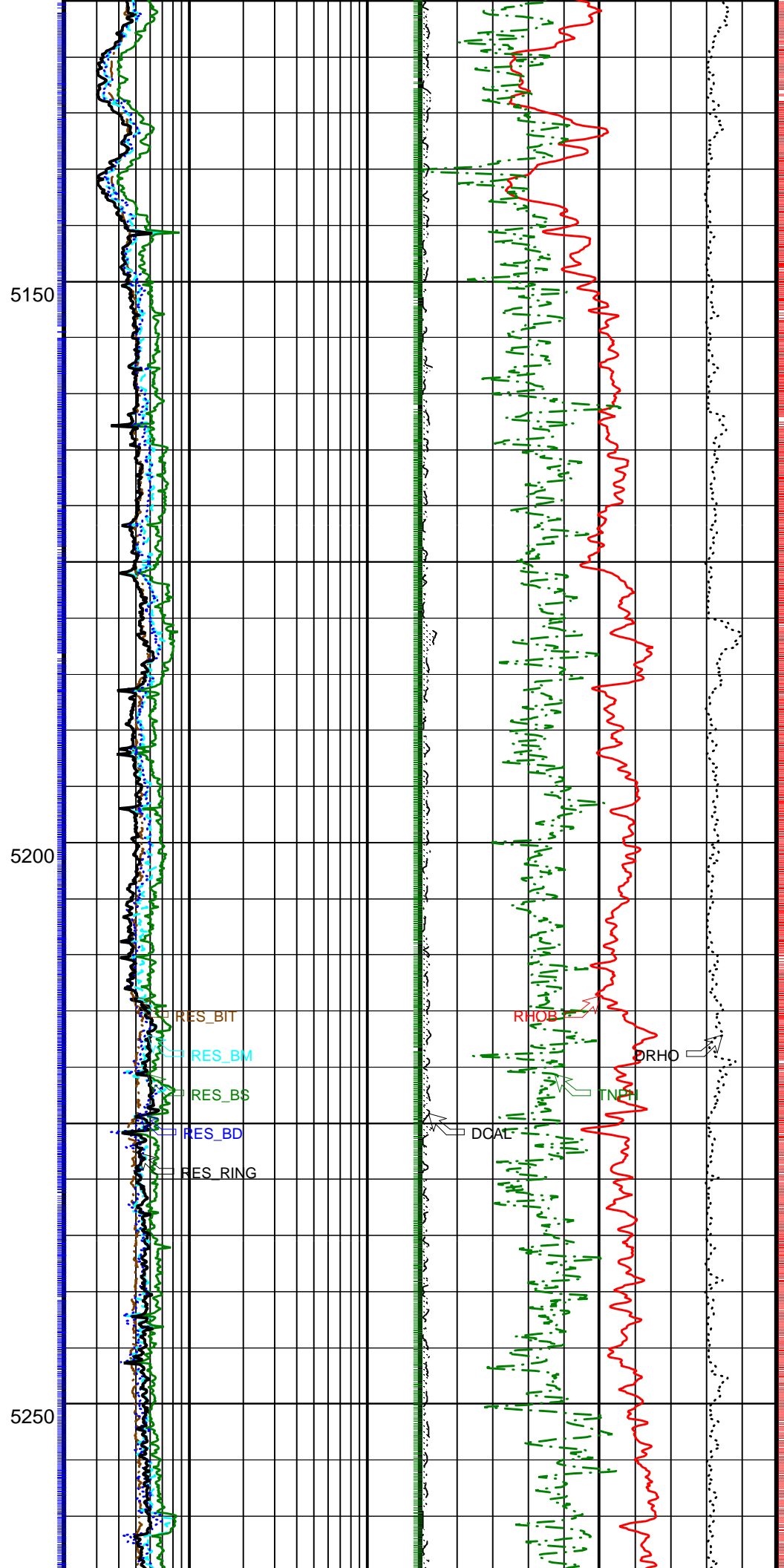
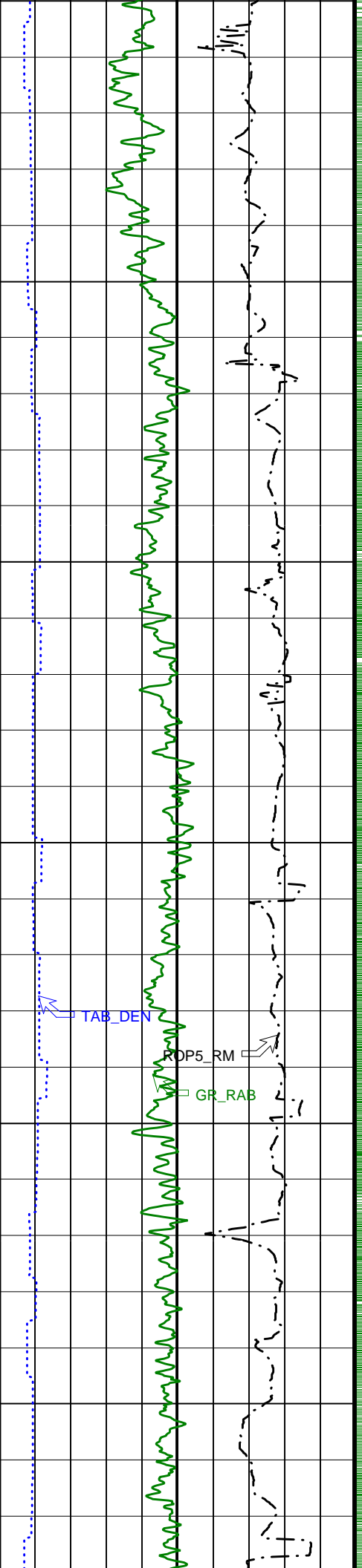
Neutron Ticks, 0.1-ft

Gamma Ray Samples
RAB samples

	Ring Resistivity (RES_RING) 0.2 (OHMM) 20	
	Deep Button Resistivity (RES_BD) 0.2 (OHMM) 20	Differential Caliper (DCAL) 0 (IN) 20
Rate of Penetration, Averaged over Last 5ft (ROP5_RM) 500 (F/HR) 0	Shallow Button Resistivity (RES_BS) 0.2 (OHMM) 20	Thermal Neutron Porosity (TNPH) 75 (PU) 15
RAB Gamma Ray (GR_RAB) 0 (GAPI) 150	Medium Button Resistivity (RES_BM) 0.2 (OHMM) 20	Bulk Density Correction (DRHO) -0.8 (G/C3) 0.2
Density Time After Bit (TAB_DEN) 0 (HR) 10	Bit Resistivity (RES_BIT) 0.2 (OHMM) 20	Bulk Density (RHOB) 1.4 (G/C3) 2.4



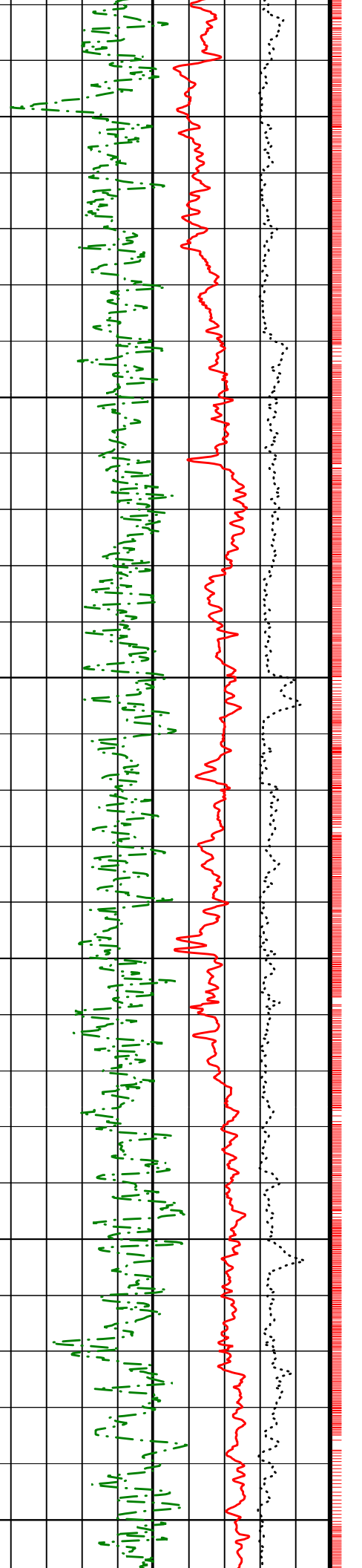
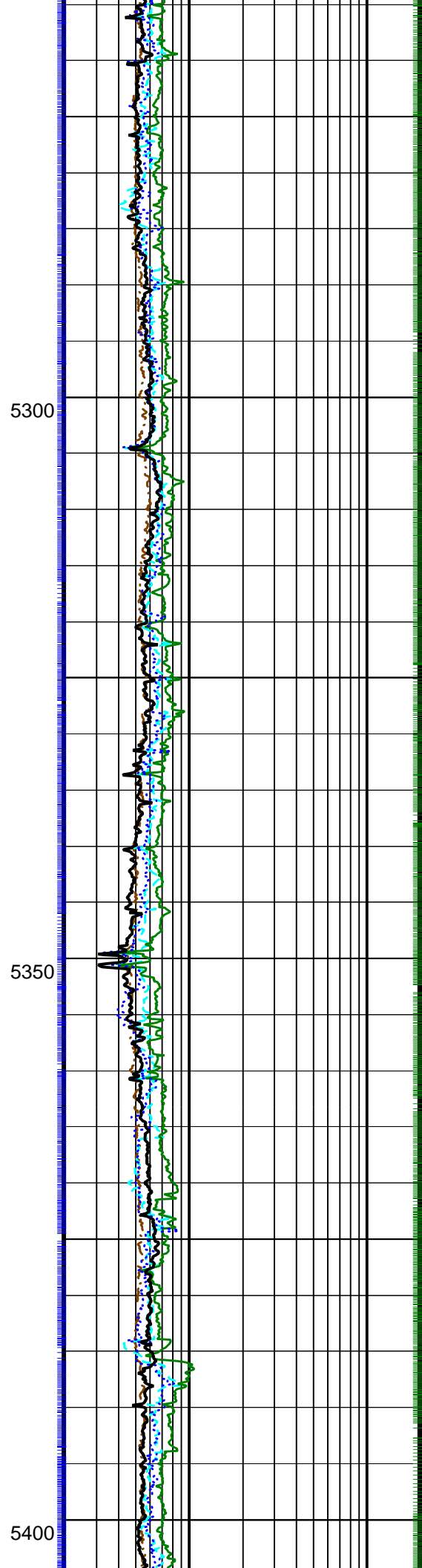
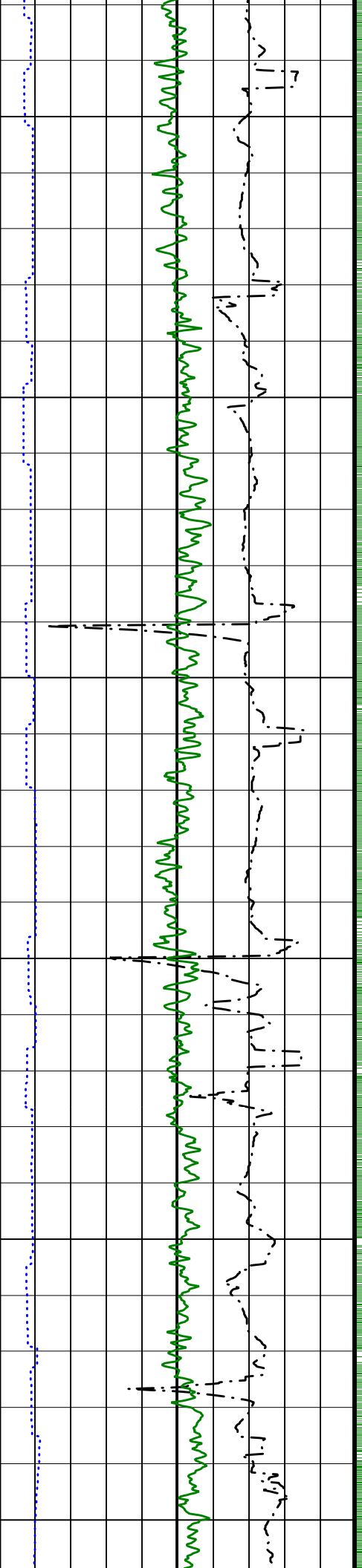


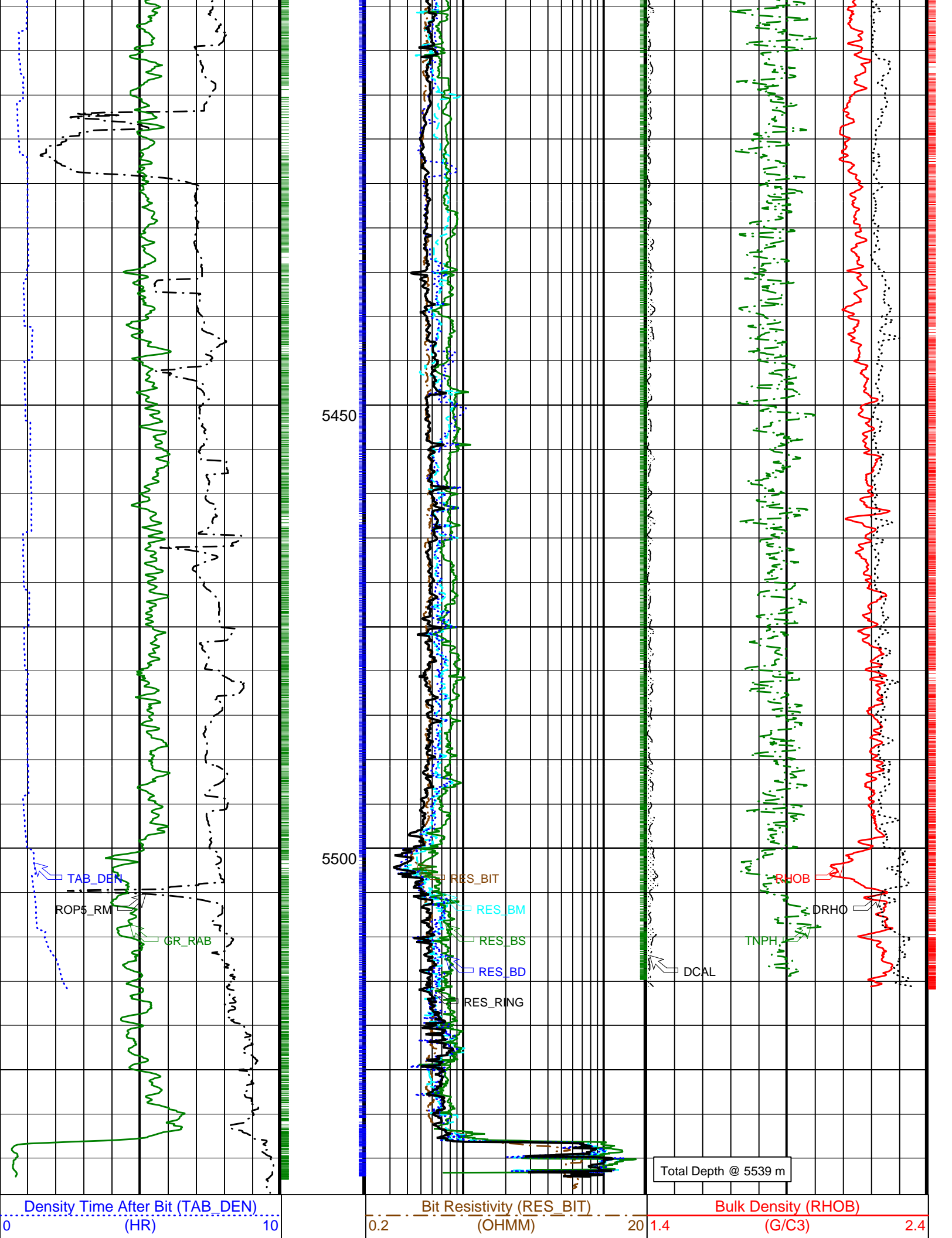


5150

5200

5250





RAB Gamma Ray (GR_RAB)		
0	(GAPI)	150
Rate of Penetration, Averaged over Last 5ft (ROP5_RM)		
500	(F/HR)	0

Medium Button Resistivity (RES_BM)		
0.2	(OHMM)	20
Shallow Button Resistivity (RES_BS)		
0.2	(OHMM)	20
Deep Button Resistivity (RES_BD)		
0.2	(OHMM)	20
Ring Resistivity (RES_RING)		
0.2	(OHMM)	20

Bulk Density Correction (DRHO)		
-0.8	(G/C3)	0.2
Thermal Neutron Porosity (TNPH)		
75	(PU)	15
Differential Caliper (DCAL)		
0	(IN)	20

PIP SUMMARY

Density Ticks, 0.1-ft

Neutron Ticks, 0.1-ft

+ Gamma Ray Samples
 + RAB samples

IDEAL Version: ID6_1C_08

IDF

RAB id6_1c_08

6.75-in. Resistivity At-the-Bit / Equipment Identification

Primary Equipment:
 Tool Name and Serial Number RAB6 - BA SN 012
 Calibration Status Good

Master: 10-APR-2001 10:12														
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				0.01096	Master				0.01115	Master				1.107
	0.009500 (Minimum)	0.01100 (Nominal)	0.01250 (Maximum)			0.009500 (Minimum)	0.01100 (Nominal)	0.01250 (Maximum)			0.9000 (Minimum)	1.050 (Nominal)	1.200 (Maximum)	
Phase	M0/T2 factor			Value	Phase	M2/T1 factor			Value	Phase	M2/T2 factor			Value
Master				1.100	Master				1.016	Master				1.021
	0.9000 (Minimum)	1.050 (Nominal)	1.200 (Maximum)			0.8500 (Minimum)	1.000 (Nominal)	1.150 (Maximum)			0.8500 (Minimum)	1.000 (Nominal)	1.150 (Maximum)	
Phase	BTN shallow/T1 factor			Value	Phase	BTN shallow/T2 factor			Value	Phase	BTN medium/T1 factor			Value
Master				0.0006580	Master				0.0006760	Master				0.0006450
	0.0005700 (Minimum)	0.0006700 (Nominal)	0.0007700 (Maximum)			0.0005700 (Minimum)	0.0006700 (Nominal)	0.0007700 (Maximum)			0.0005700 (Minimum)	0.0006700 (Nominal)	0.0007700 (Maximum)	
Phase	BTN medium/T2 factor			Value	Phase	BTN deep/T1 factor			Value	Phase	BTN deep/T2 factor			Value
Master				0.0006610	Master				0.0006480	Master				0.0006640
	0.0005700 (Minimum)	0.0006700 (Nominal)	0.0007700 (Maximum)			0.0005700 (Minimum)	0.0006700 (Nominal)	0.0007700 (Maximum)			0.0005700 (Minimum)	0.0006700 (Nominal)	0.0007700 (Maximum)	

Master: 10-APR-2001 10:12				
6.75-in. Resistivity At-the-Bit Calibration				
Gamma Ray: Blanket				
Phase	Gamma ray factor			Value
Master				4.210
	3.500 (Minimum)	4.500 (Nominal)	5.500 (Maximum)	

6.75-in. Azimuthal Density Neutron / Equipment Identification

Primary Equipment:
 Tool Name and Serial Number ADN6 - BA 119

Neutron Logging Source
Density Logging Source
Stabilizer Size
Calibration Status

NSR - M
GSR - J/Z
9.63 - in.
Good

A0149
A2097

Master: 10-APR-2001 22:25														
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				642.3	Master				2016	Master				5009
	250.0 (Minimum)	4125 (Nominal)	8000 (Maximum)			700.0 (Minimum)	9350 (Nominal)	18000 (Maximum)			2500 (Minimum)	23750 (Nominal)	45000 (Maximum)	

Master: 10-APR-2001 22:25														
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				105.3	Master				1185	Master				3524
	50.00 (Minimum)	725.0 (Nominal)	1400 (Maximum)			500.0 (Minimum)	4250 (Nominal)	8000 (Maximum)			1500 (Minimum)	15750 (Nominal)	30000 (Maximum)	

Master: 10-APR-2001 22:25														
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				42.83	Master				96.15	Master				408.0
	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: 10-APR-2001 22:25									
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				1.014	Master				1.101
	0.9844 (Minimum)	0.9994 (Nominal)	1.014 (Maximum)			1.071 (Minimum)	1.096 (Nominal)	1.121 (Maximum)	

Master: 10-APR-2001 22:25									
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				1.067	Master				-0.8720
	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				1.047	Master				-0.9180
	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				1.094	Master				-0.8480
	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				1.081	Master				-0.8230
	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				1.079	Master				-0.8700
	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				1.028	Master				-0.7570
	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					

Master			0.9810
	0.9000 (Minimum)	1.100 (Nominal)	1.300 (Maximum)
Phase	Near 2 tube 1 gain		Value
Master			1.025
	0.9000 (Minimum)	1.100 (Nominal)	1.300 (Maximum)

Company: Lamont Doherty

Well: ODP Leg 196, Site 1173B and 1173C

Field: Nankai Trough

Country: Japan

Ocean: Pacific

IDEAL services from Anadrill

RAB / ADN
Scale 1: 500 Measured Depth
Recorded Data

Schlumberger