





**GAMMA RAY CALIPER  
BED RESOLUTION DENSITY  
SLIMLINE UNIT**

LOCATION CAMPBELL RIVER PRVNC/CO. BRITISH COLUMBIA FIELD QUINSAM WELL 92-002 COMPANY BRINCO COAL MINING CORP. PROVINCE/COUNTY BRITISH COLUMBIA COUNTRY/STATE CANADA	COMPANY BRINCO COAL MINING CORP. WELL 92-002 FIELD QUINSAM PROVINCE/COUNTY BRITISH COLUMBIA COUNTRY/STATE CANADA	LOCATION CAMPBELL RIVER OTHER SERVICES DIMPNER H. H.
PERMANENT DATUM CI LOC MEASURED FROM CI DRILLING MEASURED FROM CI DATE 21-MAR-92 RUN NUMBER ONE DEPTH-DRILLER 77.0 M DEPTH-LOGGER 77.0 M FIRST READING 0 LAST READING 4.4 M CASING-DRILLER 4.4 M CASING-LOGGER 4.4 M BIT SIZE 5.5"	EVALUATION 310.98 M ABOVE PERMANENT DATUM PERMANENT DATUM CI CI 310.98 M	OTHER SERVICES DIMPNER H. H.
DENS. FLUID TYPE WATER DENS. FLUID LOSS 1.1 PH/FLUID LOSS N/A SAMPLE SOURCE N/A SAM @ MEAS TEMP N/A SAM @ MEAS TEMP N/A SOURCE RHT/RMC RHT @ BIT TIME SINCE CIRC MAX REC TEMP EQUIPMENT/BASE V255 RDI FR RECORDED BY JCV WITNESSED BY	PERMANENT DATUM CI LOC MEASURED FROM CI DRILLING MEASURED FROM CI DATE 21-MAR-92 RUN NUMBER ONE DEPTH-DRILLER 77.0 M DEPTH-LOGGER 77.0 M FIRST READING 0 LAST READING 4.4 M CASING-DRILLER 4.4 M CASING-LOGGER 4.4 M BIT SIZE 5.5"	OTHER SERVICES DIMPNER H. H.

RUN NUMBER	BORTHOLF RECORD			SIZE	CASING RECORD		
	BIT	FROM	TO		WEIGHT	FROM	TO
001	5.5"	13.6 M	13.6 M	7"		0	10.5 M
EQUIPMENT		RUN 1		RUN 2		RUN 3	
DD1		11"					

**REMARKS**

GAMMA RAY CALIPER BED RESOLUTION DENSITY SLIMLINE UNIT

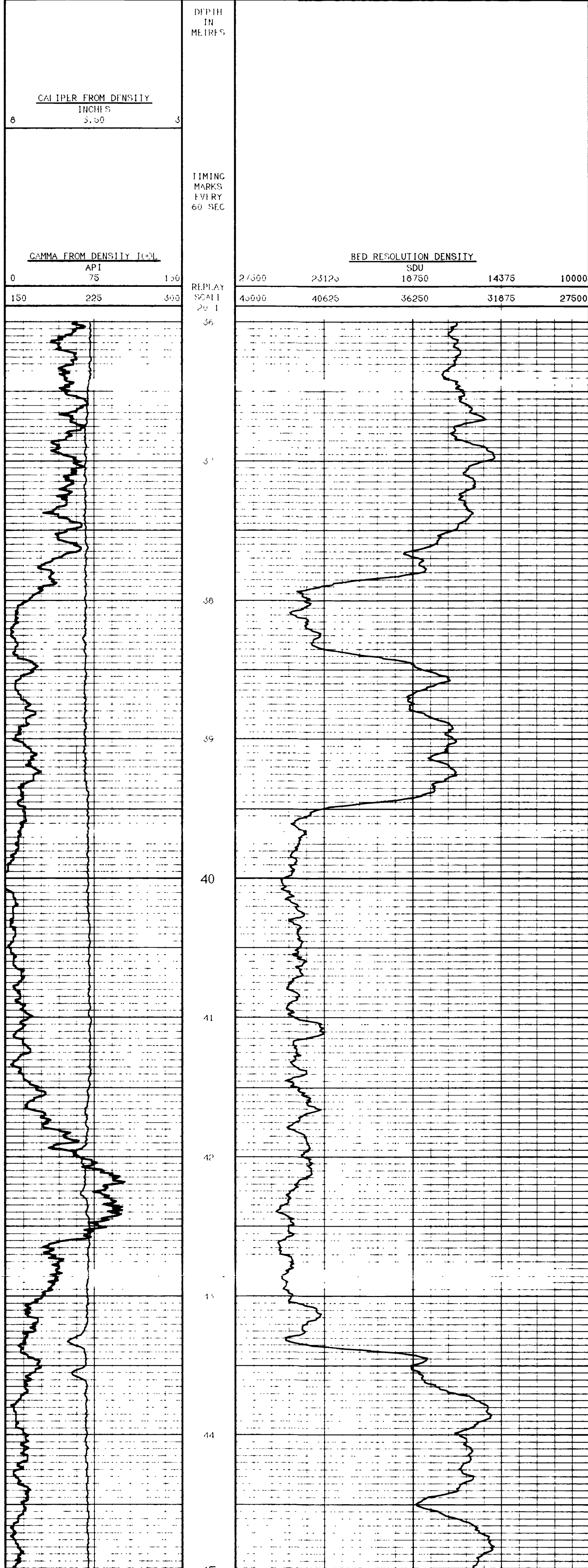
N 103 394.400 1 99 760.100

SYSTEM CONFIGURATION DATA LOGGED 13-MAR-1992 PROCESSED 13-MAR-1992 PLOTTED

ALL INTERPRETATIONS ARE OPINIONS BASED ON INFERENCES FROM ELECTRICAL OR OTHER MEASUREMENTS AND WE CANNOT AND DO NOT GUARANTEE THE ACCURACY OR CORRECTNESS OF ANY INTERPRETATIONS AND WE SHALL NOT BE RESPONSIBLE FOR ANY LOSS OF PROFITS OR EXPENSES INCURRED OR SUSTAINED BY ANYONE RESULTING FROM ANY INTERPRETATION MADE BY ANY OF OUR OFFICERS AGENTS OR EMPLOYEES. THESE INTERPRETATIONS ARE ALSO SUBJECT TO OUR GENERAL TERMS AND CONDITIONS IN OUR PRICE SCHEDULE.

**DETAIL LOG**

DEPTH BASED DATA - MAXIMUM SAMPLING INCREMENT 1CM. RECORDED ON 21-MAR-1992 AT 14 40  
 FILENAME DD3A002A.C1B RUN ID DETAIL LOG PLOTTED ON 01-APR-1992 AT 05 17



DEPTH BASED DATA - MAXIMUM SAMPLING INCREMENT 1CM. RECORDED ON 21-MAR-1992 AT 14 40  
 FILENAME DD3A002A.C1B RUN ID DETAIL LOG PLOTTED ON 01-APR-1992 AT 05 17

**DETAIL LOG**

COMPANY	BRINCO COAL MINING CORP.
WELL	92-002
FIELD	QUINSAM
PROVINCE/COUNTY	BRITISH COLUMBIA
COUNTRY/STATE	CANADA







**GAMMA RAY CALIPER  
BED RESOLUTION DENSITY  
SLIMLINE UNIT**

LOCATION CAMPBELL RIVER PROVINCE/CO. BRITISH COLUMBIA FIELD QUINSAM WELL 92-004 COMPANY BRINCO COAL MINING CORP. PROVINCE/COUNTY BRITISH COLUMBIA COUNTRY/STATE CANADA	LOCATION CAMPBELL RIVER OTHER SURVEYS DIMENSION H.F.
PREPARMENT DATUM LOG MEASURED FROM CL DRILLING MEASURED FROM CL DATE 20-MAR-92	ELEVATION 311.66 M ABOVE PREPARMENT DATUM M8 CL 311.66 M M9 CL
RUN NUMBER DEPTH-DRILLER DEPTH-LOGGER FIRST READING LAST READING CASTING-DRILLER CASTING-LOGGER BIT SIZE HOLE FLUID TYPE DENSG. VISCO. RH/FLUID LOSS SAMPLE SOURCE RH @ MEAS TEMP SMC @ MEAS TEMP SOURCE RHT/RMC RH @ BHI TIME SINCE CIRG MAX REC TEMP EQUIPMENT/BASE RECORDED BY INTERESTED BY	20-MAR-92 ONI 64.0 M 61.6 M 61.6 M 0 3.0 M 4.0 M 5.5" WATER 1.1 N/A N/A N/A N/A N/A N/A N/A V223 RTD/ELER JCV

RUN NUMBER	BOREHOLE RECORD			CASING RECORD			
	BIT	FROM	TO	SIZE	WEIGHT	FROM	TO
ONE	5.5"	35.3 M	64.0 M	7"		0	3.6 M

EQUIPMENT	RUN 1	RUN 2	RUN 3	RUN 4
DD1	11"			

**REMARKS**

GAMMA RAY CALIPER BED RESOLUTION DENSITY SLIMLINE UNIT

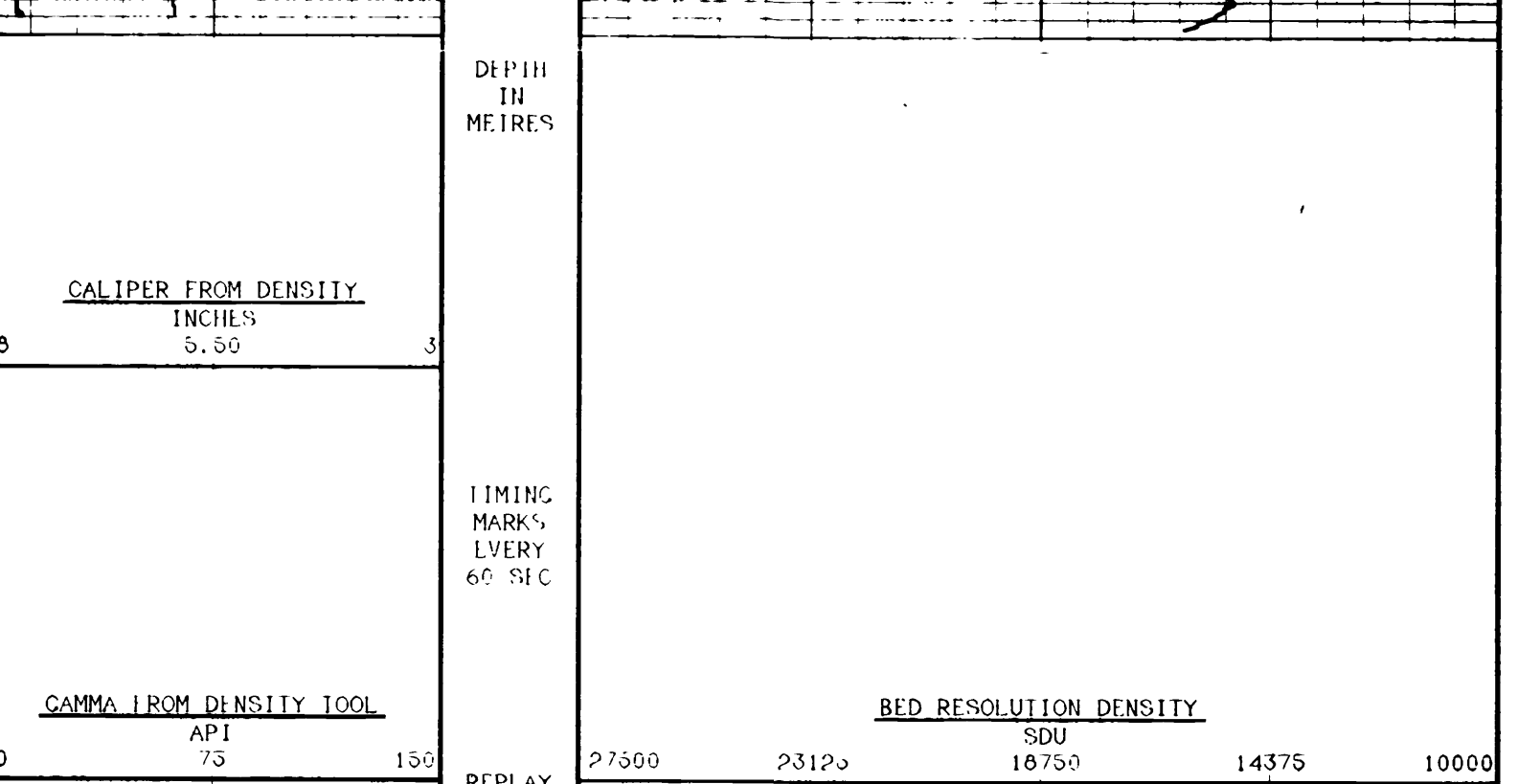
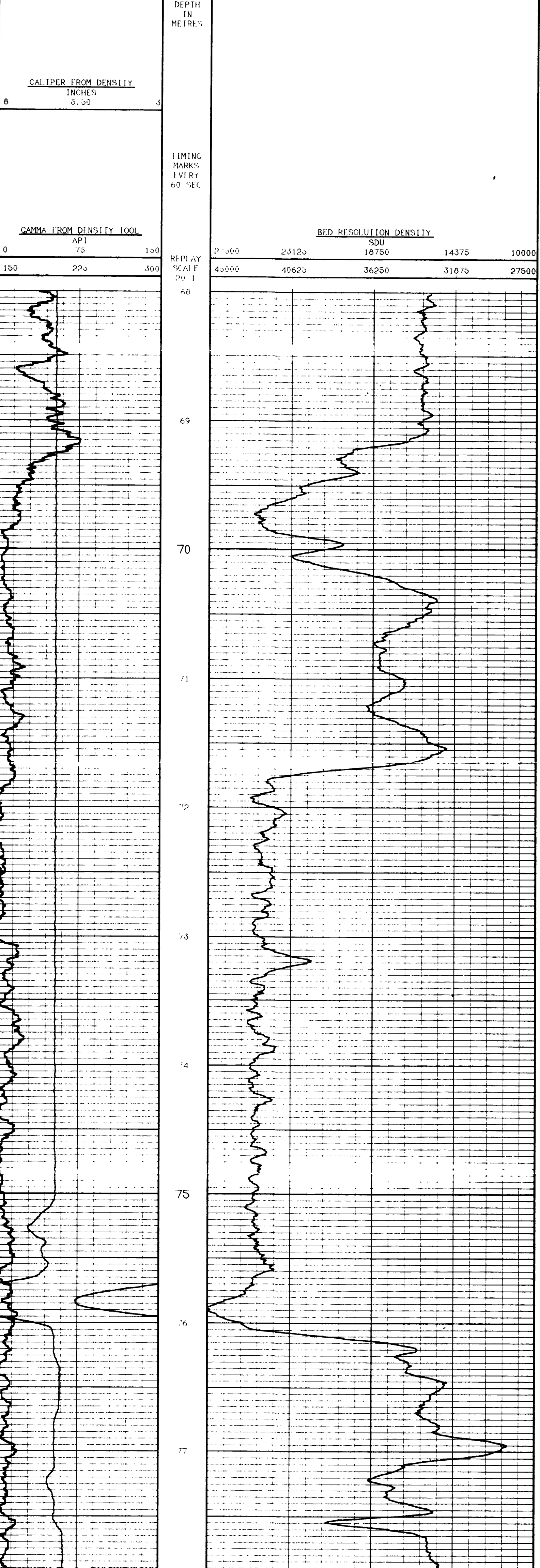
N 103 355.991 F 100 062.72

SYSTEM CONFIGURATION DATES LOGGED 13-MAR-1992 PROCESSED 13-MAR-1992 PLOTTED

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**DETAIL LOG**

DEPTH BASED DATA - MAXIMUM SAMPLING INCREMENT 1CM. RECORDED ON 20-MAR-1992 AT 16 59  
 FILENAME DD3A004A.C1B RUN ID DETAIL LOG PLOTTED ON 01-APR-1992 AT 08 36

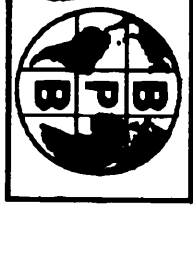


DEPTH BASED DATA - MAXIMUM SAMPLING INCREMENT 1CM. RECORDED ON 20-MAR-1992 AT 16 59  
 FILENAME DD3A004A.C1B RUN ID DETAIL LOG PLOTTED ON 01-APR-1992 AT 08 36

**DETAIL LOG**

COMPANY	BRINCO COAL MINING CORP.
WELL	92-004
FIELD	QUINSAM
PROVINCE/COUNTY	BRITISH COLUMBIA
COUNTRY/STATE	CANADA





**CAMMA RAY CALIPER  
BED RESOLUTION DENSITY  
SLIMLINE UNIT**

<b>LOCATION</b> CAMPBELL RIVER PRVNC/CO. BRITISH COLUMBIA FIELD QUINSAM WELL 92-005 COMPANY BRINCO COAL MINING CORP. BRINCO COAL MINING CORP.		COMPANY BRINCO COAL MINING CORP. WELL 92-005 FIELD QUINSAM PROVINCE/COUNTY BRITISH COLUMBIA COUNTRY/STATE CANADA	
<b>LOCATION</b> CAMPBELL RIVER	<b>OTHER SERVICES</b> FF	PERMANENT DATUM CI ELEVATION 511.50 M ABOVE PERMANENT DATUM	K8 CI ELEVATIONS CI 511.50 M
DATE 22-MAR-92 DRILLING MEASURED FROM CI	PERMANENT DATUM CI ELEVATION 511.50 M ABOVE PERMANENT DATUM	K8 CI ELEVATIONS CI 511.50 M	PERMANENT DATUM CI ELEVATION 511.50 M ABOVE PERMANENT DATUM
RUN NUMBER ONE DEPTH-DRILLER 78.4 M DEPTH-OCCLER 77.2 M FIRST READING 0 LAST READING 5.7 M CASING-DRILLER 5.7 M CASING-OCCLER 5.7 M BIT SIZE 5.5"	RUN NUMBER ONE DEPTH-DRILLER 78.4 M DEPTH-OCCLER 77.2 M FIRST READING 0 LAST READING 5.7 M CASING-DRILLER 5.7 M CASING-OCCLER 5.7 M BIT SIZE 5.5"	RUN NUMBER ONE DEPTH-DRILLER 78.4 M DEPTH-OCCLER 77.2 M FIRST READING 0 LAST READING 5.7 M CASING-DRILLER 5.7 M CASING-OCCLER 5.7 M BIT SIZE 5.5"	RUN NUMBER ONE DEPTH-DRILLER 78.4 M DEPTH-OCCLER 77.2 M FIRST READING 0 LAST READING 5.7 M CASING-DRILLER 5.7 M CASING-OCCLER 5.7 M BIT SIZE 5.5"
HOLE FLUID TYPE WATER LOSS/VISC. 1.1 HOLE FLUID LOSS N/A SAMPLE SOURCE N/A RHT @ M/AS TEMP. RHT @ M/AS TEMP. RHT @ M/AS TEMP. SOURCE RHT/RMC RHT @ BHT TIME SINCE CIRC MAX REC TEMP EQUIPMENT/BASE V225 R DEFER RECORDED BY JCV ATTENDED BY	HOLE FLUID TYPE WATER LOSS/VISC. 1.1 HOLE FLUID LOSS N/A SAMPLE SOURCE N/A RHT @ M/AS TEMP. RHT @ M/AS TEMP. RHT @ M/AS TEMP. SOURCE RHT/RMC RHT @ BHT TIME SINCE CIRC MAX REC TEMP EQUIPMENT/BASE V225 R DEFER RECORDED BY JCV ATTENDED BY	HOLE FLUID TYPE WATER LOSS/VISC. 1.1 HOLE FLUID LOSS N/A SAMPLE SOURCE N/A RHT @ M/AS TEMP. RHT @ M/AS TEMP. RHT @ M/AS TEMP. SOURCE RHT/RMC RHT @ BHT TIME SINCE CIRC MAX REC TEMP EQUIPMENT/BASE V225 R DEFER RECORDED BY JCV ATTENDED BY	HOLE FLUID TYPE WATER LOSS/VISC. 1.1 HOLE FLUID LOSS N/A SAMPLE SOURCE N/A RHT @ M/AS TEMP. RHT @ M/AS TEMP. RHT @ M/AS TEMP. SOURCE RHT/RMC RHT @ BHT TIME SINCE CIRC MAX REC TEMP EQUIPMENT/BASE V225 R DEFER RECORDED BY JCV ATTENDED BY

RUN NUMBER	BOREHOLE RECORD			CASING RECORD			
	BIT	FROM	TO	SIZE	WEIGHT	FROM	TO
ONE	5.5"	33.4 M	78.4 M	7"		0	5.7 M
EQUIPMENT		RUN 1	RUN 2	RUN 3	RUN 4		
DD1		110					

**REMARKS**

CAMMA RAY CALIPER BED RESOLUTION DENSITY SLIMLINE UNIT

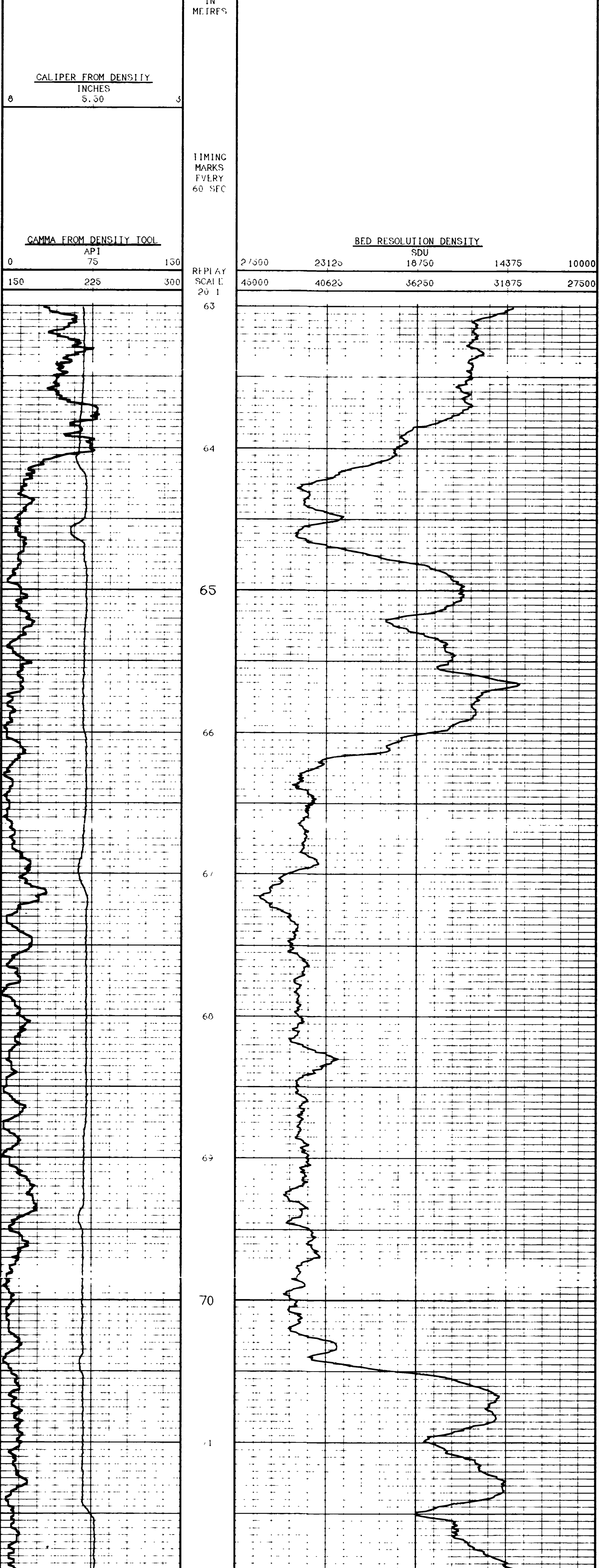
N 103 277.32 E 99 930.33

SYSTEM CONFIGURATION DATES LOGGED 13-MAR-1992 PROCESSED PLOTTED

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**DETAIL LOG**

DEPTH BASED DATA - MAXIMUM SAMPLING INCREMENT 1CM. RECORDED ON 22-MAR-1992 AT 14 24  
 FILENAME DD3A005A.CIB RUN ID DETAIL LOG PLOTTED ON 01-APR-1992 AT 10 26



DEPTH IN METRES

CALIPER FROM DENSITY INCHES 5.50

DEPTH IN METRES

CALIPER FROM DENSITY INCHES 5.50

DEPTH IN METRES

CALIPER FROM DENSITY INCHES 5.50

DEPTH IN METRES

CALIPER FROM DENSITY INCHES 5.50

DEPTH IN METRES

CALIPER FROM DENSITY INCHES 5.50

DEPTH IN METRES

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DEPTH IN METRES

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CALIPER FROM DENSITY INCHES 5.50

DEPTH IN METRES

CALIPER FROM DENSITY INCHES 5.50

DEPTH IN METRES

DEPTH BASED DATA - MAXIMUM SAMPLING INCREMENT 1CM. RECORDED ON 22-MAR-1992 AT 14 24  
 FILENAME DD3A005A.CIB RUN ID DETAIL LOG PLOTTED ON 01-APR-1992 AT 10 26

**DETAIL LOG**

COMPANY	BRINCO COAL MINING CORP.
WELL	92-005
FIELD	QUINSAM
PROVINCE/COUNTY	BRITISH COLUMBIA
COUNTRY/STATE	CANADA



**CAMMA RAY, CALIPER  
BED RESOLUTION DENSITY  
SLIMLINE UNIT**

LOCATION CAMPBELL RIVER  
PRVNC/CO. BRITISH COLUMBIA  
FIELD QUINSAM  
WELL 92-006  
COMPANY BRINCO COAL MINING CORP.  
PROVINCE/COUNTY BRITISH COLUMBIA  
COUNTRY/STATE CANADA

LOCATION CAMPBELL RIVER  
OTHER SERVICES  
DIPMETER  
FE

PERMANENT DATUM CL. ELEVATION 300.00 M  
LOG MEASURED FROM CL. ABOVE PERMANENT DATUM  
DRILLING MEASURED FROM CL. CL. 300.21 M  
DATE 22-MAR-92  
RUN NUMBER 01F  
DEPTH-DRILLER 94.0 M  
DEPTH-LOGGER 94.0 M  
FIRST READING 94.0 M  
LAST READING 0  
CASING-DRILLER 10.0 M  
CASING-LOGGER 10.0 M  
BIT SIZE S.S.  
PLE FLUID TYPE WATER  
INS./VISC. 1.1  
MFLUID LOSS N/A  
SAMPLE SOURCE N/A  
M @ MEAS TEMP  
M @ MEAS TEMP  
M @ MEAS TEMP  
SOURCE RMT/RMC  
M @ BIT  
M @ SINCE CIRC  
M REC TEMP  
V223 READER  
CORDED BY JCV  
TESTED BY

RUN NUMBER	BOREHOLE RECORD			CASING RECORD			
	BIT	FROM	TO	SIZE	WEIGHT	FROM	TO
ONE	3.5"	60.2 M	94.0 M	7"		0	10.0 M

EQUIPMENT	RUN 1	RUN 2	RUN 3	RUN 4
DD1	110			

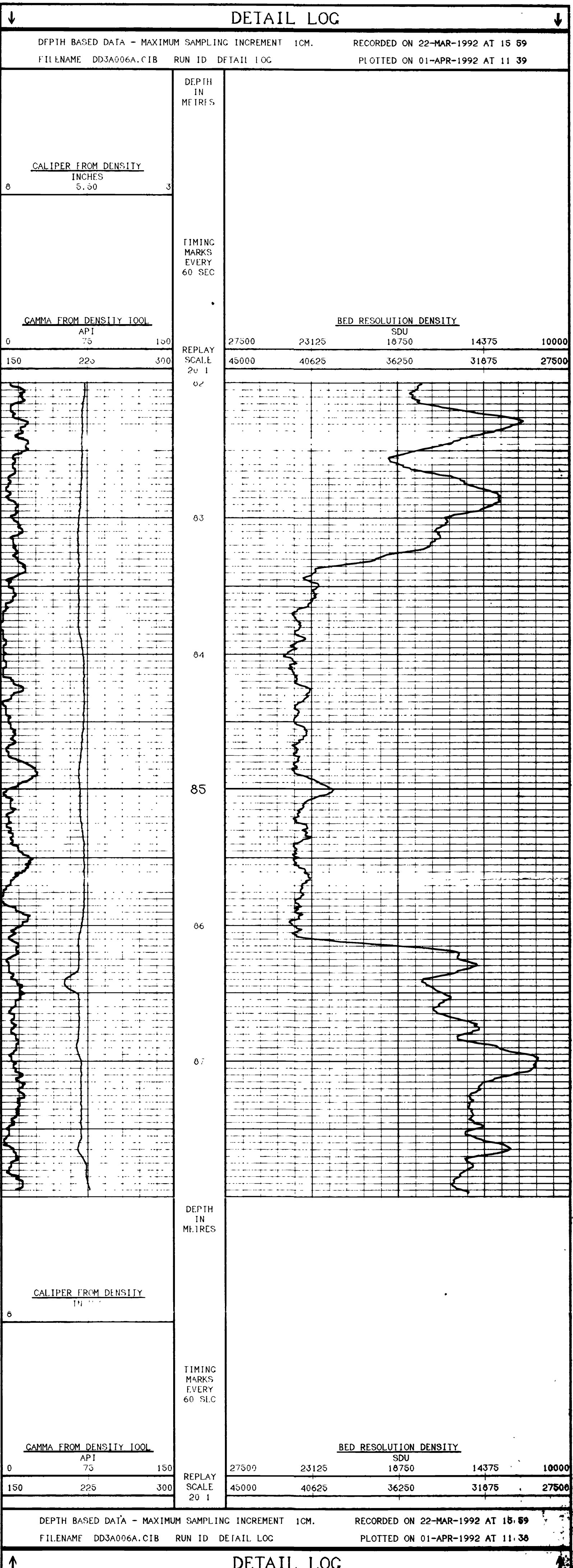
**REMARKS**

CAMMA RAY CALIPER      BED RESOLUTION DENSITY      SLIMLINE UNIT

N 103 222.07      E 100 107.06

SYSTEM CONFIGURATION DATA      LOGGED 13-MAR-1992      PROCESSED      PLOTTED

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COMPANY BRINCO COAL MINING CORP.  
WELL 92-006  
FIELD QUINSAM  
PROVINCE/COUNTY BRITISH COLUMBIA  
COUNTRY/STATE CANADA



**CAMMA RAY, CALIPER  
BED RESOLUTION DENSITY  
SLIMLINE UNIT**

LOCATION	CAMPBELL RIVER	OTHER SERVICES	
PRVNC/CO.	BRITISH COLUMBIA		
FIELD	QUINSAM		
WELL	92-007		
COMPANY	BRINCO COAL MINING CORP.		
PROVINCE/COUNTY	BRITISH COLUMBIA		
COUNTRY/STATE	CANADA		
LOCATION	CAMPBELL, RIVER	DIPMETER	
WELL	92-007		
FIELD	QUINSAM		
PROVINCE/COUNTY	BRITISH COLUMBIA		
COUNTRY/STATE	CANADA		
PERMANENT DATUM CL.		ELEVATION 321.83 M	ELEVATIONS
LOC. MEASURED FROM CL.		ABOVE PERMANENT DATUM	KB CL. 321.83 M
DRILLING MEASURED FROM CL.			DF CL. 321.83 M
DATE	23-MAR-92		
RUN NUMBER	ONE		
DEPTH-LOGGER	79.9 M		
FIRST READING	76.8 M		
LAST READING	0		
CASING-DRILLER	6.0 M		
CASING-LOGGER	2.3 M		
BIT SIZE	5.5"		
OIL FLUID TYPE	WATER		
WTS./VISC.	1.1		
M/FLUID LOSS	N/A		
SAMPLE SOURCE			
PH @ MEAS TEMP			
PH @ MEAS TEMP			
SOURCE IRI / RMC			
PH @ BHI			
TIME SINCE CIRC			
AXY DEG TEMP			
ADJUSTMENT/BASE	V233 REDEER		
RECORDED BY	JCV		
FINISHED BY			

RUN NUMBER	BOREHOLE RECORD			CASING RECORD			
	BIT	FROM	TO	SIZE	WEIGHT	FROM	TO
ONE	5.5"	52.9 M	79.9 M	7"		0	6.0 M
EQUIPMENT		RUN 1	RUN 2	RUN 3	RUN 4		
DD1		110					

**REMARKS**

CAMMA RAY CALIPER      BED RESOLUTION DENSITY      SLIMLINE UNIT

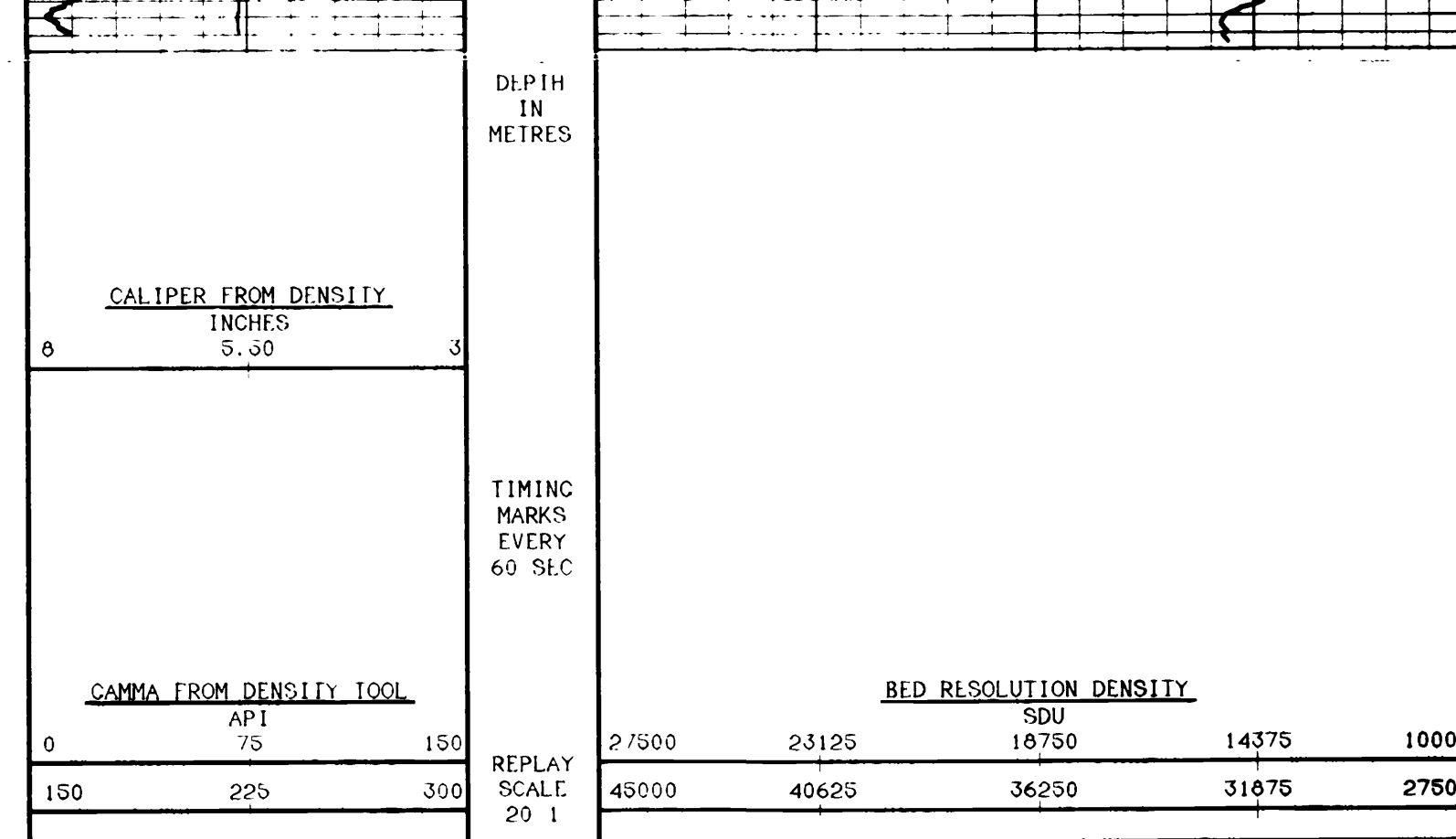
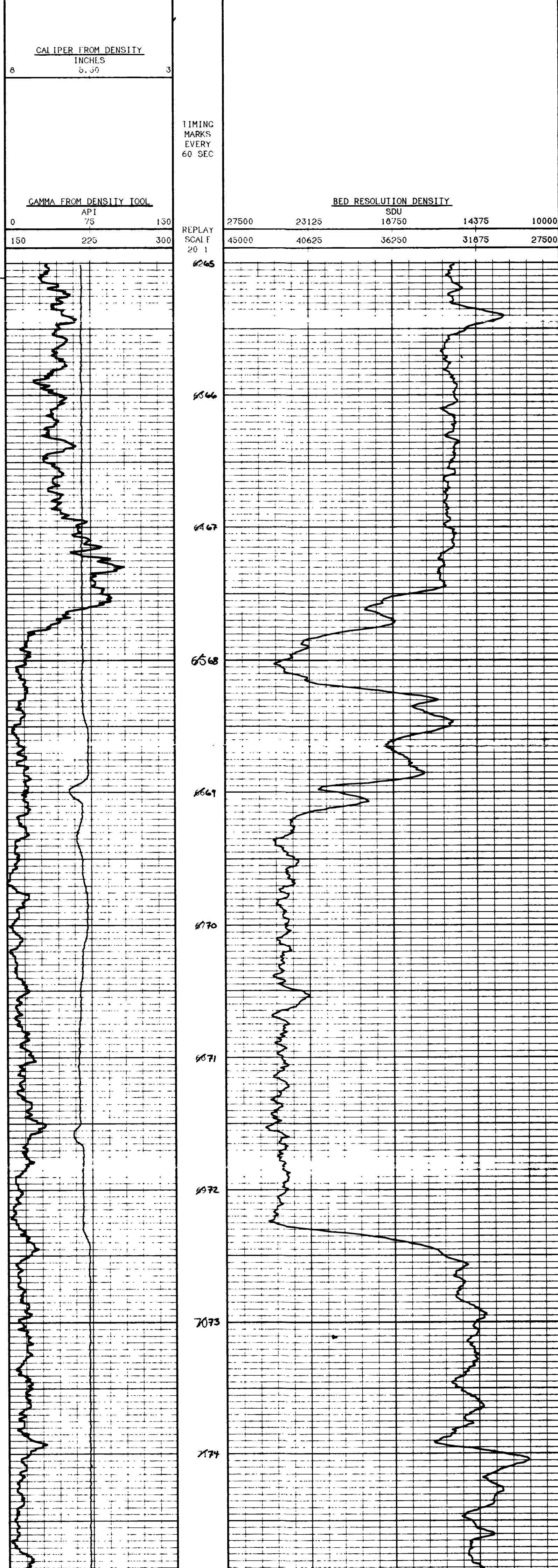
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SYSTEM CONFIGURATION DATA    LOGGED 13-MAR-1992    PROCESSED    PLOTTED

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**DETAIL LOG**

DEPTH BASED DATA - MAXIMUM SAMPLING INCREMENT 1CM.      RECORDED ON 23-MAR-1992 AT 7:28  
 FILENAME DD3A007A.C1B    RUN ID DETAIL LOC      PLOTTED ON 01-APR-1992 AT 12:42



DEPTH BASED DATA - MAXIMUM SAMPLING INCREMENT 1CM.      RECORDED ON 23-MAR-1992 AT 7:28  
 FILENAME DD3A007A.C1B    RUN ID DETAIL LOC      PLOTTED ON 01-APR-1992 AT 12:42

**DETAIL LOG**

COMPANY	BRINCO COAL MINING CORP.
WELL	92-007
FIELD	QUINSAM
PROVINCE/COUNTY	BRITISH COLUMBIA
COUNTRY/STATE	CANADA





**GAMMA RAY CALIPER  
BED RESOLUTION DENSITY  
SLIMLINE UNIT**

<b>LOCATION</b> CAMPBELL RIVER PRVNC/CO. BRITISH COLUMBIA FIELD QUINSAM 92-008 COMPANY BRINCO COAL MINING CORP.		COMPANY BRINCO COAL MINING CORP. WELL 92-008 FIELD QUINSAM PROVINCE/COUNTY BRITISH COLUMBIA COUNTRY/STATE CANADA		LOCATION CAMPBELL RIVER LSD SEC TYP RCF OTHER SERVICES DIPMETER FE		
DATE 23-MAR-92 RUN NUMBER ONE DEPTH-DRILLER 72.3 M DEPTH-LOGGER 72.4 M FIRST READING 72.4 M LAST READING 2.0 M CASING-DRILLER 2.0 M CASING-LOGGER 2.0 M	PREVIOUS DATUM CL LOC MEASURED FROM CL DRILLING MEASURED FROM CL DATE 23-MAR-92 RUN NUMBER ONE DEPTH-DRILLER 72.3 M DEPTH-LOGGER 72.4 M FIRST READING 72.4 M LAST READING 2.0 M CASING-DRILLER 2.0 M CASING-LOGGER 2.0 M	ELEVATION 328.56 M ABOVE PERMANENT DATUM ELEVATIONS I.B. CL 328.56 M D.C. CL 328.56 M				
HOLE FLUID TYPE WATER DENS./VISC. 1.1 PH/FLUID LOSS N/A SAMPLE SOURCE N/A RUN @ MEAS TEMP RUN @ MEAS TEMP SOURCE RHT/RMC TIME SINCE CIRC MAX REC TEMP EQUIPMENT/BASE ATTENDED BY						

RUN NUMBER	BOREHOLE RECORD			CASING RECORD			
	BIT	FROM	TO	SIZE	WEIGHT	FROM	TO
ONE	5.5"	58.0 M	72.3 M	7"		0	2.0 M
EQUIPMENT		RUN 1	RUN 2	RUN 3	RUN 4		
DDI		110					

**REMARKS**

GAMMA RAY CALIPER      BED RESOLUTION DENSITY      SLIMLINE UNIT

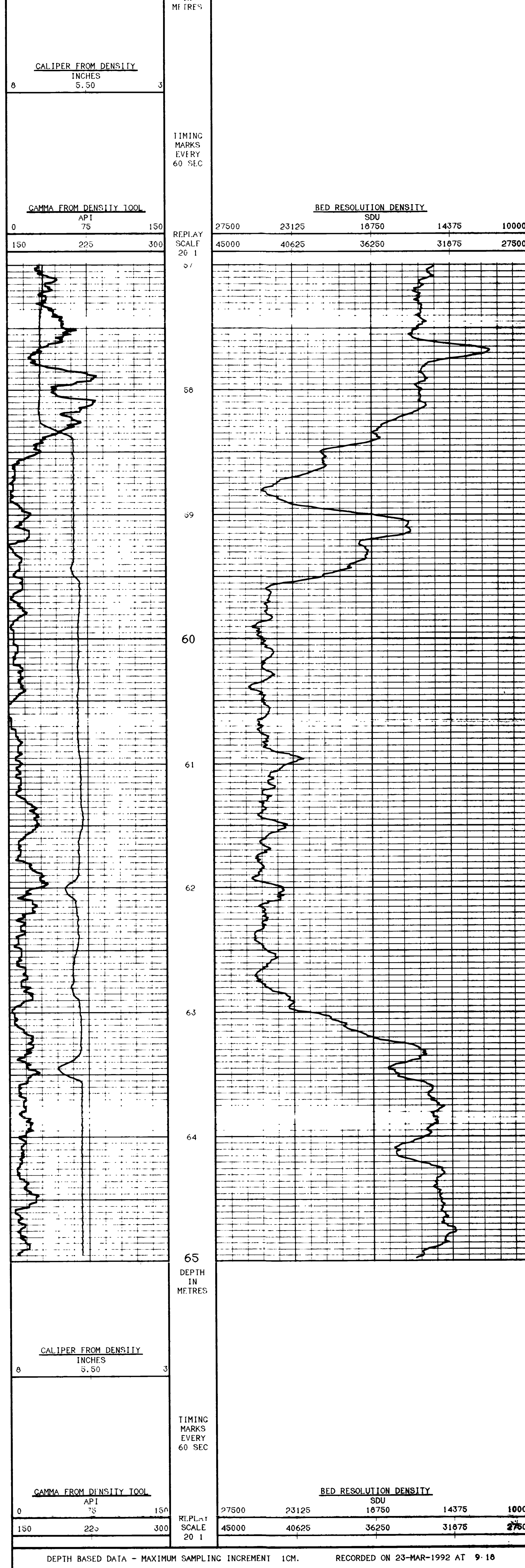
N 103 069.49      E 99 754.46

SYSTEM CONFIGURATION DATES    LOGGED 13-MAR-1992    PROCESSED      PLOTTED

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**DETAIL LOG**

DEPTH BASED DATA - MAXIMUM SAMPLING INCREMENT 1CM.      RECORDED ON 23-MAR-1992 AT 9:18  
 FILENAME DD3A008A.CIB      RUN ID    DETAIL LOG      PLOTTED ON 01-APR-1992 AT 13:37



DEPTH BASED DATA - MAXIMUM SAMPLING INCREMENT 1CM.      RECORDED ON 23-MAR-1992 AT 9:18  
 FILENAME DD3A008A.CIB      RUN ID    DETAIL LOG      PLOTTED ON 01-APR-1992 AT 13:35

**DETAIL LOG**

COMPANY	BRINCO COAL MINING CORP.
WELL	92-008
FIELD	QUINSAM
PROVINCE/COUNTY	BRITISH COLUMBIA
COUNTRY/STATE	CANADA



**GAMMA RAY CALIPER  
BED RESOLUTION DENSITY  
SLIMLINE UNIT**

LOCATION PRVNC/CO. BRITISH COLUMBIA FIELD 92-009 COMPANY BRINCO COAL MINING CORP.	COMPANY BRINCO COAL MINING CORP. WELL 92-009 FIELD QUINSAM PROVINCE/COUNTY BRITISH COLUMBIA COUNTRY/STATE CANADA	LOCATION CAMPBELL RIVER OTHER SERVICES DIPIWETER FE
PERMANENT DATUM LOG MEASURED FROM CL DRILLING MEASURED FROM CL DATE 23-MAR-92	PERMANENT DATUM CL ELEVATION 321.36 M ABOVE PERMANENT DATUM DRILLING MEASURED FROM CL CL ELEVATIONS OF CL 321.36 M	RUN NUMBER ONE DEPTH-DRILLER 64.9 M DEPTH-LOGGER 63.3 M FIRST READING 63.3 M LAST READING 0 CASING-DRILLER 2.5 M CASING-LOGGER 2.5 M BIT SIZE 5.5"
HOLE FLUID TYPE WATER DEBS./VISC. 1.1 PH/FILUID LOSS N/A SAMPLER SOURCE N/A RHT @ MEAS TEMP N/A RHT @ MEAS TEMP N/A SOURCE RHT/RMC N/A RHT @ BHI N/A TIME SINCE CIRC N/A REC TEMP N/A EQUIPMENT/BASE V223 REDEBER JCV MEASURED BY N/A		

RUN NUMBER	BOREHOLE RECORD			CASING RECORD			
	BIT	FROM	TO	SIZE	WEIGHT	FROM	TO
ONE	5.5"	54.8 M	64.9 M	7"		0	2.5 M
EQUIPMENT		RUN 1	RUN 2	RUN 3	RUN 4		
DD1		110					

**REMARKS**

GAMMA RAY CALIPER      BED RESOLUTION DENSITY      SLIMLINE UNIT

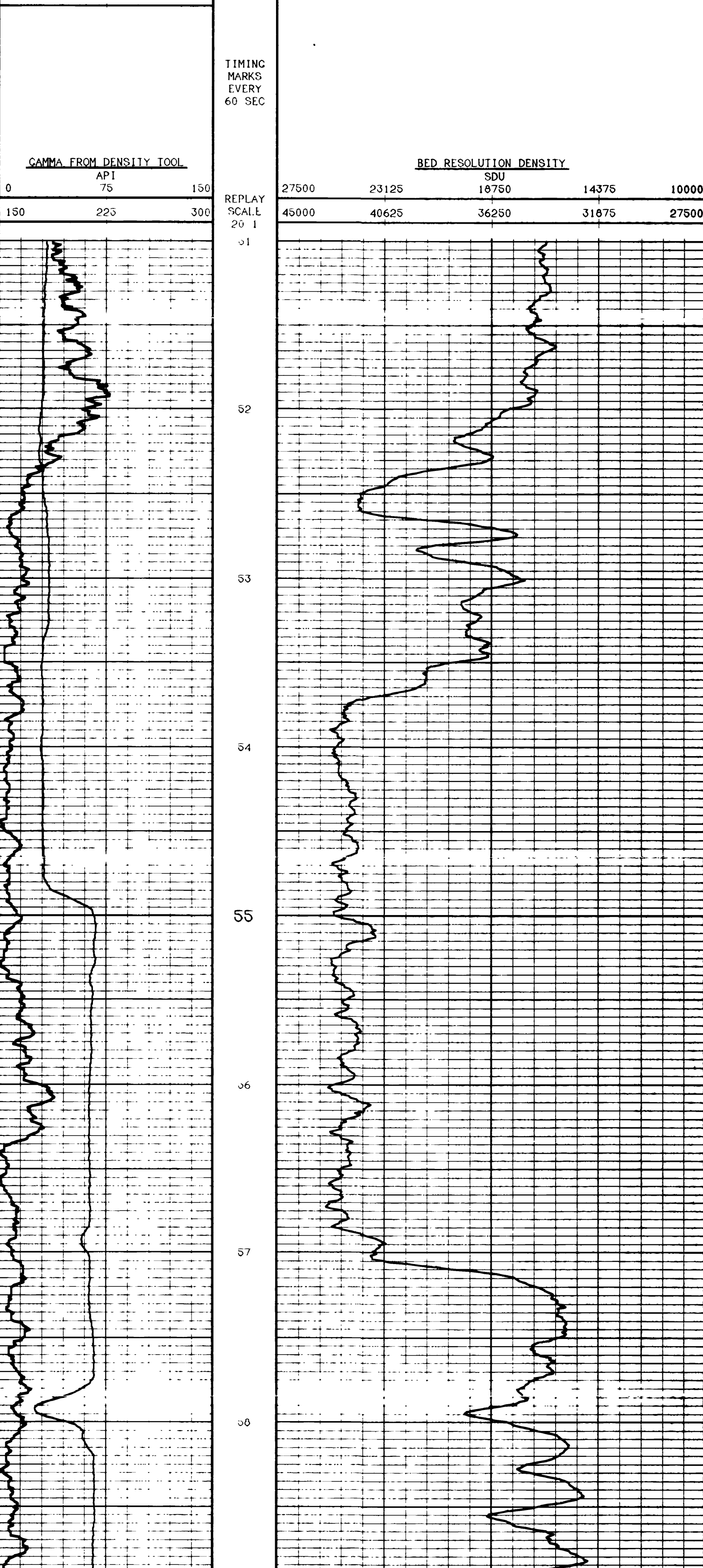
N 103 195.29      E 99 796.674

SYSTEM CONFIGURATION DATES    LOGGED 13-MAR-1992    PROCESSED    PLOTTED

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**DETAIL LOG**

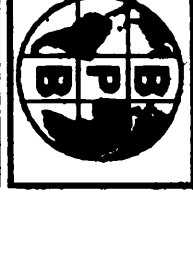
DEPTH BASED DATA - MAXIMUM SAMPLING INCREMENT 1CM.      RECORDED ON 23-MAR-1992 AT 10:07  
 FILENAME DD3A009A.CIB      RUN ID DETAIL LOC      PLOTTED ON 01-APR-1992 AT 15:17



DEPTH BASED DATA - MAXIMUM SAMPLING INCREMENT 1CM.      RECORDED ON 23-MAR-1992 AT 10:07  
 FILENAME DD3A009A.CIB      RUN ID DETAIL LOC      PLOTTED ON 01-APR-1992 AT 15:16

**DETAIL LOG**

COMPANY	BRINCO COAL MINING CORP.
WELL	92-009
FIELD	QUINSAM
PROVINCE/COUNTY	BRITISH COLUMBIA
COUNTRY/STATE	CANADA



**GAMMA RAY CALIPER  
BED RESOLUTION DENSITY  
SLIMLINE UNIT**

<b>LOCATION</b> CAMPBELL RIVER PRVNC/CO. BRITISH COLUMBIA FIELD QUINSAM WELL 92-010 COMPANY BRINCO COAL MINING CORP. PROVINCE/COUNTY BRITISH COLUMBIA COUNTRY/STATE CANADA		<b>OTHER SERVICES:</b> LOCATION CAMPBELL RIVER LSD SEC TYP RCF DIRMETER F.F.	
<b>DATE</b> 23-MAR-92 <b>TIME</b> 09:15 <b>DRILLING MEASURED FROM</b> CL <b>PERMANENT DATUM</b> CL <b>LOC MEASURED FROM</b> CL <b>DRILLING MEASURED FROM</b> CL		<b>ELEVATIONS</b> K9 CL 310.05 M D1 310.05 M	
<b>WELL NUMBER</b> ONF <b>DEPTH-LOGGER</b> 76.3 M <b>FIRST READING</b> 76.3 M <b>LAST READING</b> 0 <b>CASING-DRILLER</b> J.S.M <b>CASING-LOGGER</b> J.S.M		<b>LOG FLUID TYPE</b> WATER <b>LOG SIZE</b> 5.5" <b>LOGS/VISC.</b> 1.1 <b>WELL FLUID LOSS</b> N/A <b>SAMPLE SOURCE</b> N/A <b>LOG MEAS. TEMP</b> <b>LOG MEAS. TEMP</b> <b>LOG MEAS. TEMP</b> <b>SOURCE RHM/RMC</b> <b>RH @ BHT</b> <b>TIME SINCE CIRC</b> <b>MAX REC TEMP</b> 22.3 REDETER <b>EQUIPMENT/BASE</b> JCV <b>RECORDED BY</b> JCV <b>TESTED BY</b>	

RUN		BOREHOLE RECORD		CASING RECORD			
NUMBER	BIT	FROM	TO	SIZE	WEIGHT	FROM	TO
ONF	5.5"	67.1 M	76.3 M	7"		0	3.5 M
EQUIPMENT		RUN 1	RUN 2	RUN 3	RUN 4		
DD1		110					

**REMARKS**

GAMMA RAY CALIPER      BFD RESOLUTION DENSITY      SLIMLINE UNIT

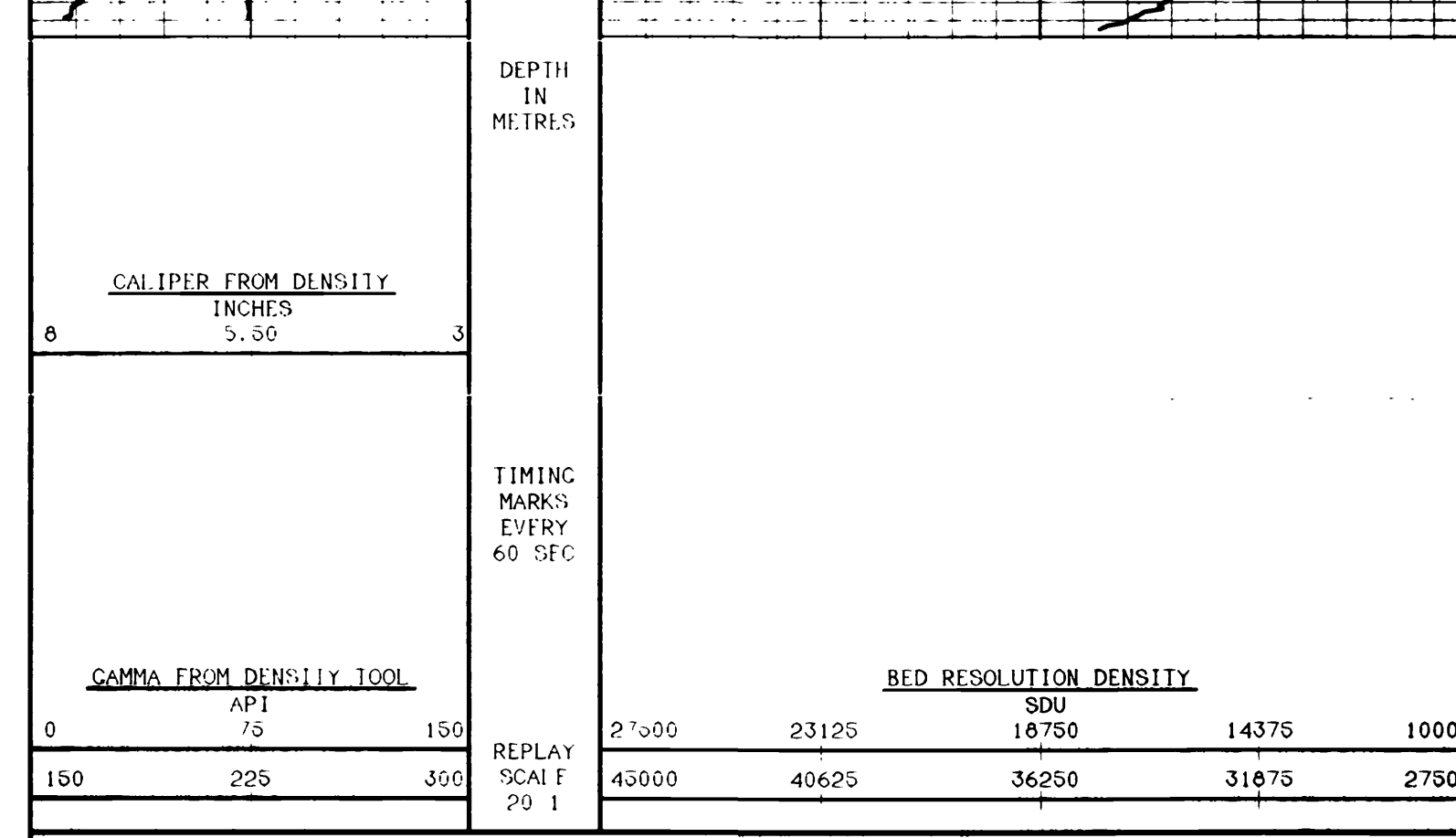
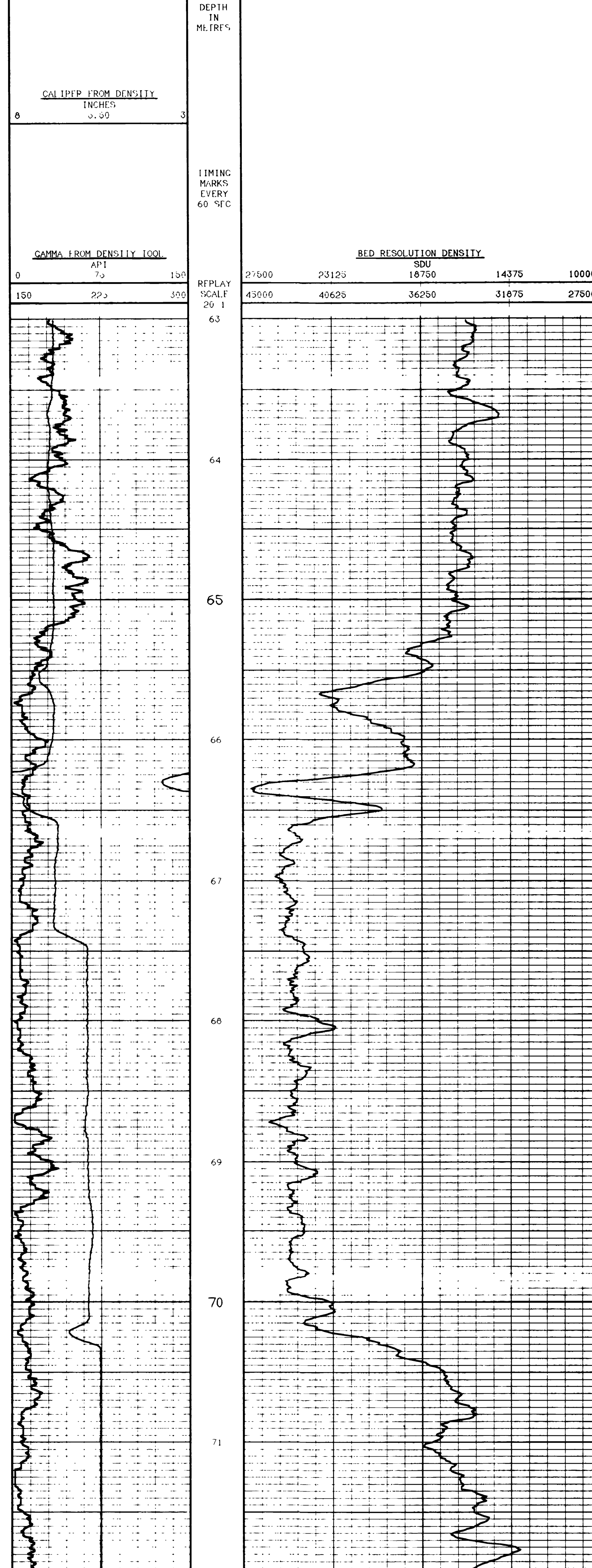
N 103 061.255      E 99 953.55

SYSTEM CONFIGURATION DATES    LOGGED 13-MAR-1992    PROCESSED      PLOTTED

ALL INTERPRETATIONS ARE OPINIONS BASED ON INFERENCE FROM ELECTRICAL OR OTHER MEASUREMENTS AND WE CANNOT AND DO NOT GUARANTEE THE ACCURACY OR CORRECTNESS OF ANY INTERPRETATIONS AND WE SHALL NOT EXCEPT IN THE CASE OF GROSS OR WILLFUL NEGLIGENCE ON OUR PART, BE LIABLE OR RESPONSIBLE FOR ANY LOSS, COSTS, DAMAGES OR EXPENSES INCURRED OR SUSTAINED BY ANYONE RESULTING FROM ANY INTERPRETATION MADE BY ANY OF OUR OFFICERS, AGENTS OR EMPLOYEES. THESE INTERPRETATIONS ARE ALSO SUBJECT TO OUR GENERAL TERMS AND CONDITIONS IN OUR PRICE SCHEDULE.

**DETAIL LOG**

DEPTH BASED DATA - MAXIMUM SAMPLING INCREMENT 1CM.      RECORDED ON 23-MAR-1992 AT 11 50  
 FILENAME DD3A010A.C1B      RUN ID DETAIL LOC      PLOTTED ON 01-APR-1992 AT 16 14

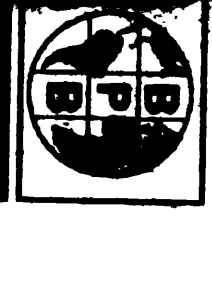


DEPTH BASED DATA - MAXIMUM SAMPLING INCREMENT 1CM.      RECORDED ON 23-MAR-1992 AT 11 50  
 FILENAME DD3A010A.C1B      RUN ID DETAIL LOC      PLOTTED ON 01-APR-1992 AT 16 12

**DETAIL LOG**

COMPANY	BRINCO COAL MINING CORP.
WELL	92-010
FIELD	QUINSAM
PROVINCE/COUNTY	BRITISH COLUMBIA
COUNTRY/STATE	CANADA





**GAMMA RAY  
BED RESOLUTION DENSITY  
SLIMLINE UNIT**

LOCATION	CAMPBELL RIVER	OTHER SERVICES	
PRVNC/CO.	BRITISH COLUMBIA	LOCATION	CAMPBELL RIVER
FIELD	QUINSAM	LSL	
WELL	92-012	SLC	
COMPANY	BRINCO COAL MINING CORP.	1WP	
FIELD	QUINSAM	RCE	
PROVINCE/COUNTY	BRITISH COLUMBIA		
COUNTRY/STATE	CANADA		
PERMANENT DATUM	CL	ELEVATION	311.14 M
LOC MEASURED FROM	CL	ABOVE PERMANENT DATUM	
DRILLING MEASURED FROM	CL	KB	CL
DATE	24-MAR-92	CL	311.14 M
RUN NUMBER	ONE		
DEPTH-DRILLER	64.7 M		
DEPTH-OCCUR	63.7 M		
FIRST READING	63.7 M		
LAST READING	0		
CASING-DRILLER	5.5 M		
CASING-OCCUR	5.5 M		
BIT SIZE	5.5		
SOLE FLUID TYPE	WATER		
DENS. / VISC.	1.1		
SH/FLUID LOSS	N/A		
SAMPLE SOURCE	N/A		
RMI @ MEAS TEMP			
RMC @ MEAS TEMP			
SOURCE RMI/RMC			
RMI @ BIT			
TIME SINCE CIRC			
RAY BEG TEMP			
ADDITIONAL BASE			
RECORDED BY	VE23 REBEER		
WITNESSED BY	JCV		

BORHOLE RECORD				CASING RECORD			
RUN NUMBER	BIT	FROM	TO	SIZE	WEIGHT	FROM	TO
ONE	5.5"	7.9 M	64.7 M	7"		0	5.5 M
EQUIPMENT		RUN 1	RUN 2	RUN 3	RUN 4		
DD1		119					

**REMARKS**

GAMMA RAY BED RESOLUTION DENSITY SLIMLINE UNIT

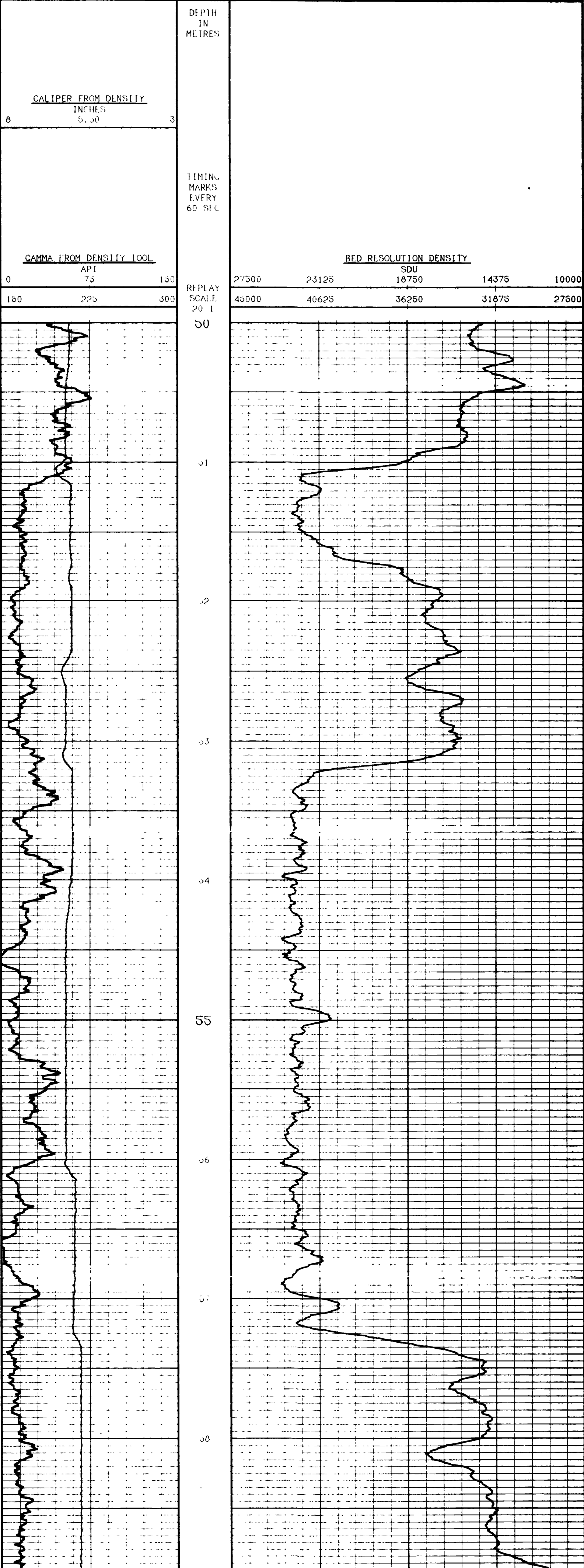
N 103 431.04 E 99 600.6

SYSTEM CONFIGURATION DATES LOGGED 13-MAR-1992 PROCESSED PLOTTED

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**DETAIL LOG**

DEPTH BASED DATA - MAXIMUM SAMPLING INCREMENT 1CM. RECORDED ON 24-MAR-1992 AT 7:43  
 FILENAME DD3A012A.CIB RUN ID DETAIL.LOC PLOTTED ON 01-APR-1992 AT 10:37



DEPTH BASED DATA - MAXIMUM SAMPLING INCREMENT 1CM. RECORDED ON 24-MAR-1992 AT 7:43  
 FILENAME DD3A012A.CIB RUN ID DETAIL.LOC PLOTTED ON 01-APR-1992 AT 10:36

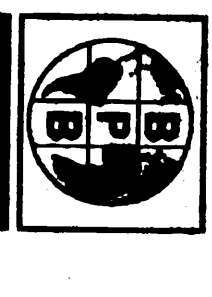
**DETAIL LOG**

COMPANY	BRINCO COAL MINING CORP.
WELL	92-012
FIELD	QUINSAM
PROVINCE/COUNTY	BRITISH COLUMBIA
COUNTRY/STATE	CANADA









**GAMMA RAY, CALIPER  
BED RESOLUTION DENSITY  
SLIMLINE UNIT**

LOCATION CAMPBELL RIVER PRVNC/CO. BRITISH COLUMBIA FIELD QUINSAM WELL 92-017 COMPANY BRINCO COAL MINING CORP. PROVINCE/COUNTY BRITISH COLUMBIA COUNTRY/STATE CANADA	COMPANY BRINCO COAL MINING CORP. WELL 92-017 FIELD QUINSAM PROVINCE/COUNTY BRITISH COLUMBIA COUNTRY/STATE CANADA	LOCATION CAMPBELL RIVER LSP SEC TYP INCI OTHER SERVICES DIMP LFR FT:
PERMANENT DATUM CL LOC MEASURED FROM CL DRILLING MEASURED FROM CL DATE 24-MAR-92 RUN NUMBER 110 DEPTH-DRILLER 91.2 M DEPTH-LOGGER 91.2 M FIRST READING 0 LAST READING 0 CASING-DRILLER 2.8 M CASING-LOGGER 2.8 M BIT SIZE 3.5"	ELEVATION 390.637 ABOVE PERMANENT DATUM ELEVATIONS KB CL 390.637 M	BRINCO COAL MINING CORP.

RUN NUMBER	BORHOLE RECORD			CASING RECORD			
	BIT	FROM	TO	SIZE	WEIGHT	FROM	TO
ONE	3.5"	79.5 M	91.2 M	7"		0	2.8 M

EQUIPMENT	RUN 1	RUN 2	RUN 3	RUN 4
DD1	110			

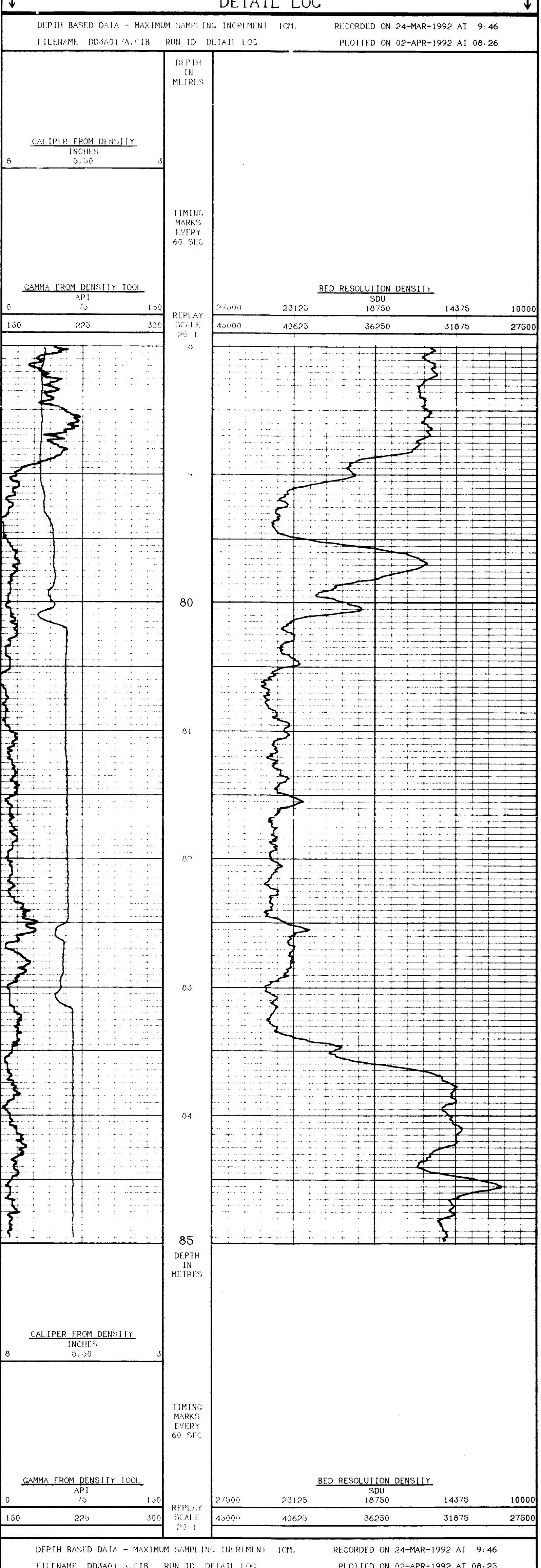
**REMARKS**

GAMMA RAY CALIPER BED RESOLUTION DENSITY SLIMLINE UNIT

N 102.75 1.31 E 93.966 32

SYSTEM CONFIGURATION DATE: 10-DEC-1992 PROCESSED PLOTTED

ALL INTERPRETATIONS ARE OPINIONS BASED ON INFERENCES FROM ELECTRICAL OR OTHER MEASUREMENTS AND WE CANNOT AND DO NOT GUARANTEE THE ACCURACY OR CORRECTNESS OF ANY INTERPRETATIONS AND WE SHALL NOT, EXCEPT IN THE CASE OF GROSS OR WILFUL NEGLIGENCE ON OUR PART, BE LIABLE OR RESPONSIBLE FOR ANY LOSS, DAMAGES OR EXPENSES INCURRED OR SUSTAINED BY ANYONE RESULTING FROM ANY INTERPRETATION MADE BY ANY OF OUR OFFICERS, AGENTS OR EMPLOYEES. THESE INTERPRETATIONS ARE ALSO SUBJECT TO OUR GENERAL TERMS AND CONDITIONS IN OUR PRICE SCHEDULE.



DEPTH BASED DATA - MAXIMUM SAMPLING INCREMENT 1CM. RECORDED ON 24-MAR-1992 AT 9:46  
 FILENAME DD5A01.A.CIB RUN ID DETAIL LOG PLOTTED ON 02-APR-1992 AT 08:26

**DETAIL LOG**

COMPANY	BRINCO COAL MINING CORP.
WELL	92-017
FIELD	QUINSAM
PROVINCE/COUNTY	BRITISH COLUMBIA
COUNTRY/STATE	CANADA





**GAMMA RAY, CALIPER  
BED RESOLUTION DENSITY  
SLIMLINE UNIT**

LOCATION: CAMPBELL RIVER PRVNC/CO.: BRITISH COLUMBIA FIELD: QUINSAM WELL: 92-019 COMPANY: BRINCO COAL MINING CORP.	COMPANY: BRINCO COAL MINING CORP. WELL: 92-019 FIELD: QUINSAM PROVINCE/COUNTY: BRITISH COLUMBIA COUNTRY/STATE: CANADA
PERMANENT DATUM CL LOC MEASURED FROM CL DRILLING MEASURED FROM CL	LOCATION: CAMPBELL RIVER OTHER SERVICES: DIPMETER F.H.
DATE: 24-MAR-92 RUN NUMBER: ONE DEPTH-DRILLER: 93.3 M DEPTH-LOCER: 93.0 M FIRST READING: 93.0 M LAST READING: 0 CASING-DRILLER: 10.4 M CASING-LOCER: 10.4 M BIT SIZE: 5.5"	ELEVATION ABOVE PERMANENT DATUM CL: 373.56 M DB: 373.56 M CL: 373.56 M
DENS./VISC.: 1.1 PVT/UID LOSS: N/A SAMPLE SOURCE: N/A RM @ MEAS TEMP: N/A RM @ MEAS TEMP: N/A RM @ MEAS TEMP: N/A SOURCE: RMF/RMC RM @ BHT: N/A TIME SINCE CIRC: N/A MAX REC TEMP: N/A EQUIPMENT/BASE: V225 RIDEER RECORDED BY: JCV WITNESSED BY:	

RUN NUMBER	BOREHOLE RECORD			CASING RECORD			
	BIT	FROM	TO	SIZE	WEIGHT	FROM	TO
ONE	5.5"	82.2 M	93.3 M	7"		0	18.4 M

EQUIPMENT	RUN 1	RUN 2	RUN 3	RUN 4
DD1	119			

**REMARKS**

GAMMA RAY CALIPER      BED RESOLUTION DENSITY      SLIMLINE UNIT

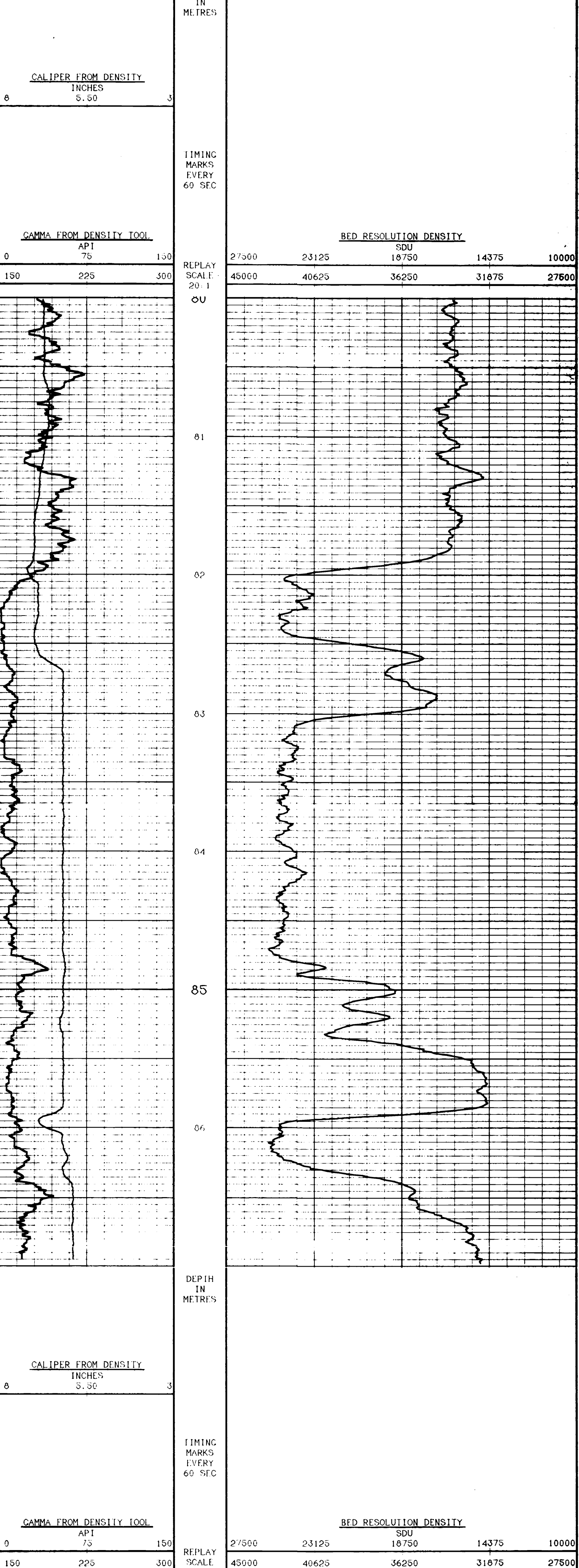
N 102.591.937      E 100.002.094

SYSTEM CONFIGURATION DATES: LOGGED 13-MAR-1992      PROCESSED      PLOTTED

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**DETAIL LOG**

DEPTH BASED DATA - MAXIMUM SAMPLING INCREMENT 1CM.      RECORDED ON 24-MAR-1992 AT 12:53  
 FILENAME: DD3A019A.CIB      RUN ID: DETAIL LOG      PLOTTED ON 02-APR-1992 AT 11:06



DEPTH BASED DATA - MAXIMUM SAMPLING INCREMENT 1CM.      RECORDED ON 24-MAR-1992 AT 12:53  
 FILENAME: DD3A019A.CIB      RUN ID: DETAIL LOG      PLOTTED ON 02-APR-1992 AT 11:04

**DETAIL LOG**

COMPANY	BRINCO COAL MINING CORP.
WELL	92-019
FIELD	QUINSAM
PROVINCE/COUNTY	BRITISH COLUMBIA
COUNTRY/STATE	CANADA







**GAMMA RAY CALIPER  
BED RESOLUTION DENSITY  
SLIMLINE UNIT**

LOCATION CAMPBELL RIVER PRVNC/CO. BRITISH COLUMBIA FIELD QUINSAM WELL 92-024 COMPANY BRINCO COAL MINING CORP.	COMPANY BRINCO COAL MINING CORP. WELL 92-024 FIELD QUINSAM PROVINCE/COUNTY BRITISH COLUMBIA COUNTRY/STATE CANADA	LOCATION CAMPBELL RIVER FE. DIMENSION OTHER SERVICES:
PERMANENT DATUM CL. ELEVATION 309.218 M LOG MEASURED FROM CL. ABOVE PERMANENT DATUM DRILLING MEASURED FROM CL. ELEVATIONS K8 CL. 309.218 M	DATE 29-MAR-92 RUN NUMBER 110 DEPTH-DRILLER 118.6 M DEPTH-LOGGER 117.6 M FIRST READING 0 LAST READING 0 CASING-DRILLER 6.3 M CASING-LOGGER 6.3 M BIT SIZE 5.5"	PERM. LOSS 1.1 N/A SAMPLE SOURCE N/A RHT @ MEAS TEMP N/A RHT @ MEAS TEMP N/A RMC @ MEAS TEMP N/A SOURCE RHT/RMC N/A RM @ BHT N/A TIME SINCE CIRC N/A MAX REC TEMP N/A EQUIPMENT/BASIS V223 READER RECORDED BY JOC WITNESSED BY

BOREHOLE RECORD				CASING RECORD			
RUN NUMBER	BIT	FROM	TO	SIZE	WEIGHT	FROM	TO
ONE	5.5"	99.2 M	118.6 M	7"		0	6.3 M

EQUIPMENT	RUN 1	RUN 2	RUN 3	RUN 4
DD1	110			

**REMARKS**

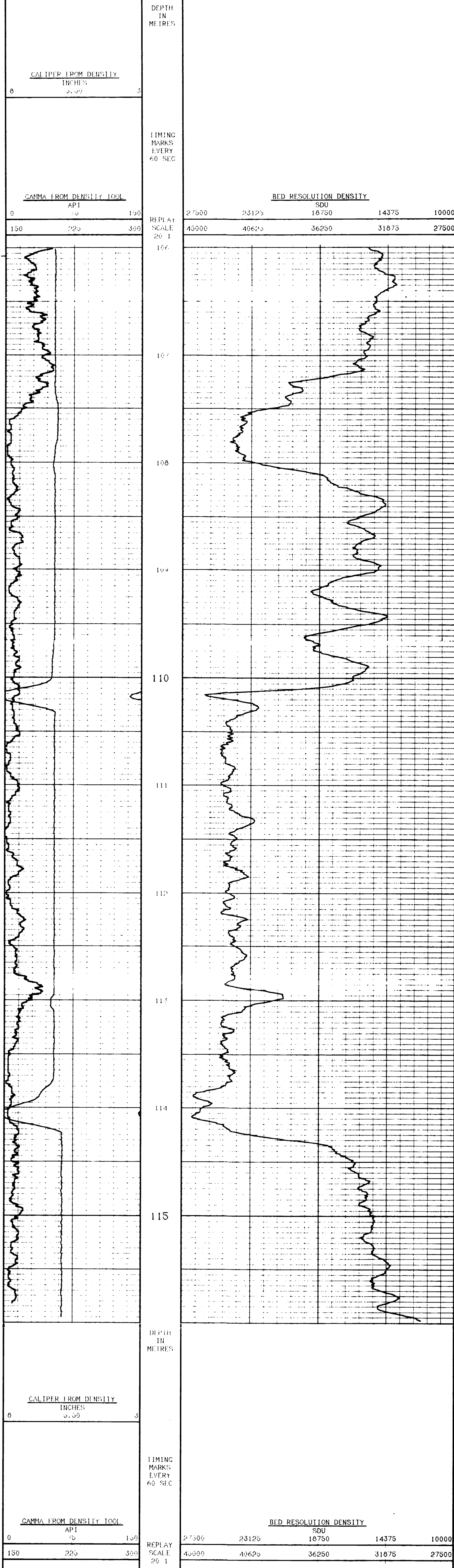
GAMMA RAY CALIPER      BID RESOLUTION DENSITY      SLIMLINE UNIT

N 102 502.200      E 100 346.100

SYSTEM CONFIGURATION DATES    LOGGED 13-MAR-1992    PROCESSED      PLOTTED

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**DETAIL LOG**



DEPTH BASED DATA - MAXIMUM SAMPLING INCREMENT 1CM.      RECORDED ON 29-MAR-1992 AT 17:09  
 FILENAME DD3AG24A.C1B      RUN ID DETAIL LOG      PLOTTED ON 02-APR-1992 AT 16:12

**DETAIL LOG**

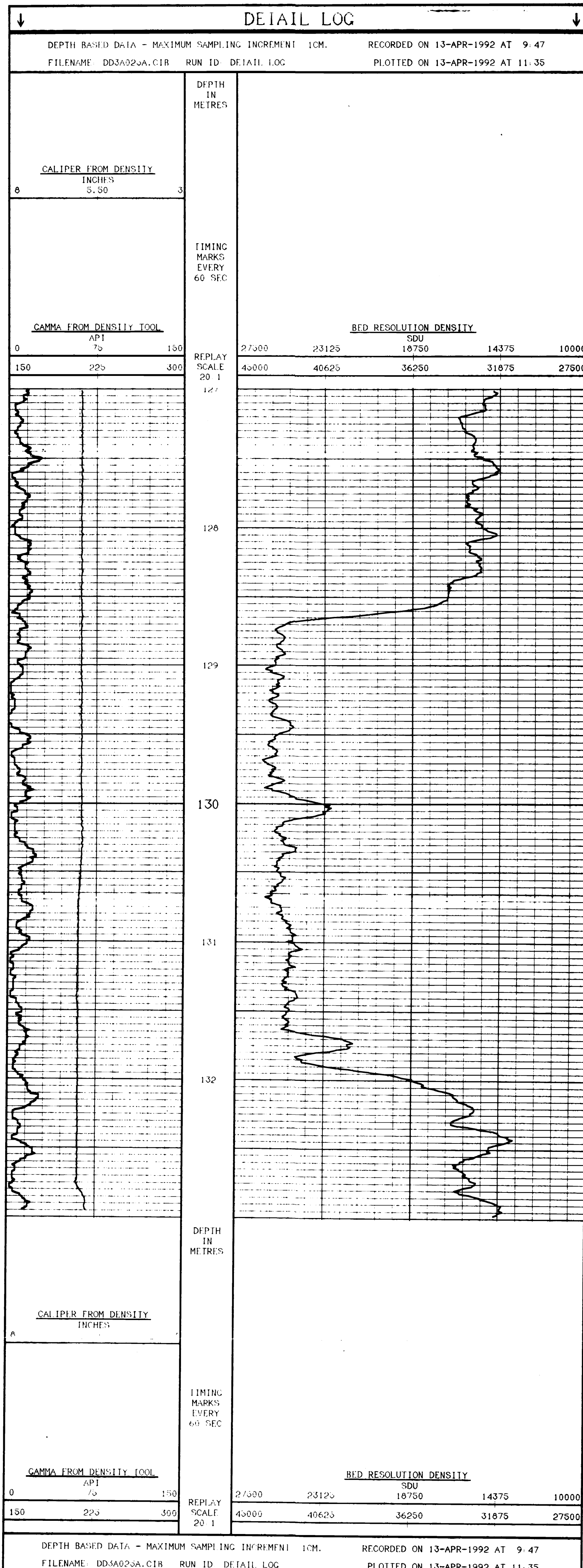
COMPANY	BRINCO COAL MINING CORP.
WELL	92-024
FIELD	QUINSAM
PROVINCE/COUNTY	BRITISH COLUMBIA
COUNTRY/STATE	CANADA



**GAMMA RAY, CALIPER  
BED RESOLUTION DENSITY  
SLIMLINE UNIT**

LOCATION	CAMPBELL RIVER	OTHER SERVICES	
PRVNC/CO.	BRITISH COLUMBIA	DIPMETER	
FIELD	QUINSAM	SPEF.	
WELL	92-025		
COMPANY	BRINCO COAL MINING CORP.		
PROVINCE/COUNTY	BRITISH COLUMBIA		
COUNTRY/STATE	CANADA		
PERMANENT DATUM	CL	ELEVATION	
LOC MEASURED FROM	CL	ABOVE PERMANENT DATUM	
DRILLING MEASURED FROM	CL		
DATE	13-APR-92		
RUN NUMBER	ONE		
DEPTH-DRILLER	136.7 M		
DEPTH-LOGGER	136.9 M		
FIRST READING	136.9 M		
LAST READING	0		
CASING-DRILLER			
CASING-LOGGER	13.2 M		
BIT SIZE	5.3"		
HOLE FLUID TYPE	WATER		
DENS./VISC.	1.1		
PH/FLUID LOSS	N/A		
SAMPLE SOURCE	N/A		
RM @ MEAS TEMP			
RM @ MEAS TEMP			
RM @ MEAS TEMP			
RM @ MEAS TEMP			
SOURCE: RMF/RMC			
RM @ BIT			
TIME SINCE CIRC			
MAX REC TEMP			
EQUIPMENT/BASE	V225 REIDELER		
RECORDED BY	JGV		
WITNESSED BY			

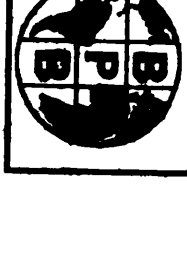
RUN NUMBER	BOREHOLE RECORD			CASING RECORD			
	BIT	FROM	TO	SIZE	WEIGHT	FROM	TO
ONE	5.5"	110.0 M	136.7 M	7"		0	15.2 M
EQUIPMENT		RUN 1	RUN 2	RUN 3	RUN 4		
DD1		110					
<b>REMARKS</b>							
GAMMA RAY CALIPER		BED RESOLUTION DENSITY		SLIMLINE UNIT			
SYSTEM CONFIGURATION DATES: LOGGED 13-MAR-1992 PROCESSED 13-MAR-1992 PLOTTED							
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**DETAIL LOG**

COMPANY	BRINCO COAL MINING CORP.
WELL	92-025
FIELD	QUINSAM
PROVINCE/COUNTY	BRITISH COLUMBIA
COUNTRY/STATE	CANADA





**GAMMA RAY CALIPER  
LONG SPACED DENSITY  
SLIMLINE UNIT**

COMPANY BRINCO COAL MINING CORP.  
WELL 92-001  
FIELD QUINSAM  
PROVINCE/COUNTY BRITISH COLUMBIA  
COUNTRY/STATE CANADA

LOCATION CAMPBELL RIVER  
PRVNC/CO. BRITISH COLUMBIA  
FIELD QUINSAM  
WELL 92-001  
COMPANY BRINCO COAL MINING CORP.  
PROVINCE/COUNTY BRITISH COLUMBIA  
COUNTRY/STATE CANADA

PERMANENT DATUM C.L.  
ELEVATION 313.28 M  
LOC MEASURED FROM CL  
ABOVE PERMANENT DATUM  
BRILLING MEASURED FROM C.L.  
DATE 31-MAR-92  
RUN NUMBER 101  
DEPTH-DRILLER 70.5 M  
DEPTH-COCCER 70.5 M  
FIRST READING 0  
LAST READING 4.4 M  
CASING-DRILLER 4.4 M  
CASING-COCCER 4.4 M  
BIT SIZE 5.5"  
MOLE FLUID TYPE WATER  
PRES./VISC. 1.1  
MUD LOSS  
MUD SOURCE  
MUD MEAS TEMP  
MUD @ MEAS TEMP  
MUD @ MEAS TEMP  
SOURCE RHF/RBK  
M @ BHT  
M @ SINCE CIRC  
M REC TEMP  
M @ REC TEMP  
M @ REC TEMP  
CORRECTED BY JCV  
MEASURED BY REDER

RUN NUMBER	BOREHOLE RECORD			CASING RECORD			
	BIT	FROM	TO	SIZE	WEIGHT	FROM	TO
ONE	5.5"	30.5 M	70.5 M	7"		0	4.4 M

EQUIPMENT	RUN 1	RUN 2	RUN 3	RUN 4
DD1	101			

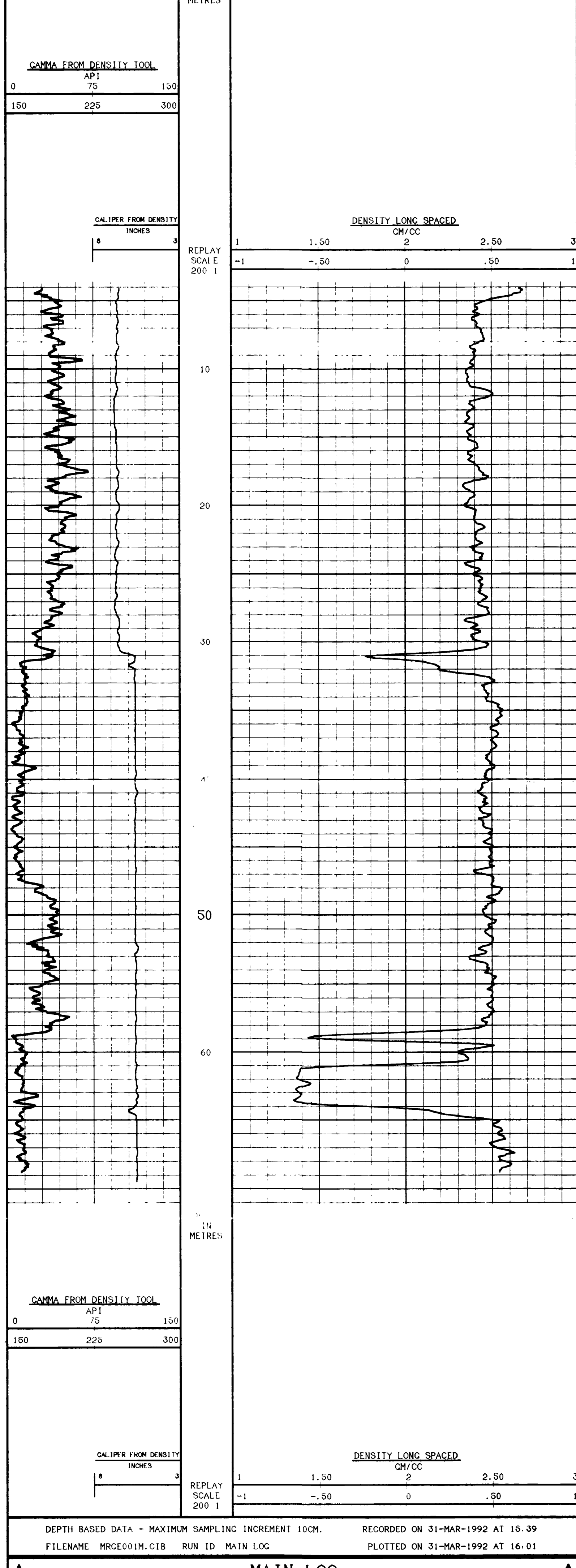
**REMARKS**  
GAMMA RAY CALIPER LONG SPACED DENSITY SLIMLINE UNIT  
N 103 S26.20 E 99 883.53

SYSTEM CONFIGURATION DATES LOCCED PROCESSED PLOTTED

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**MAIN LOG**

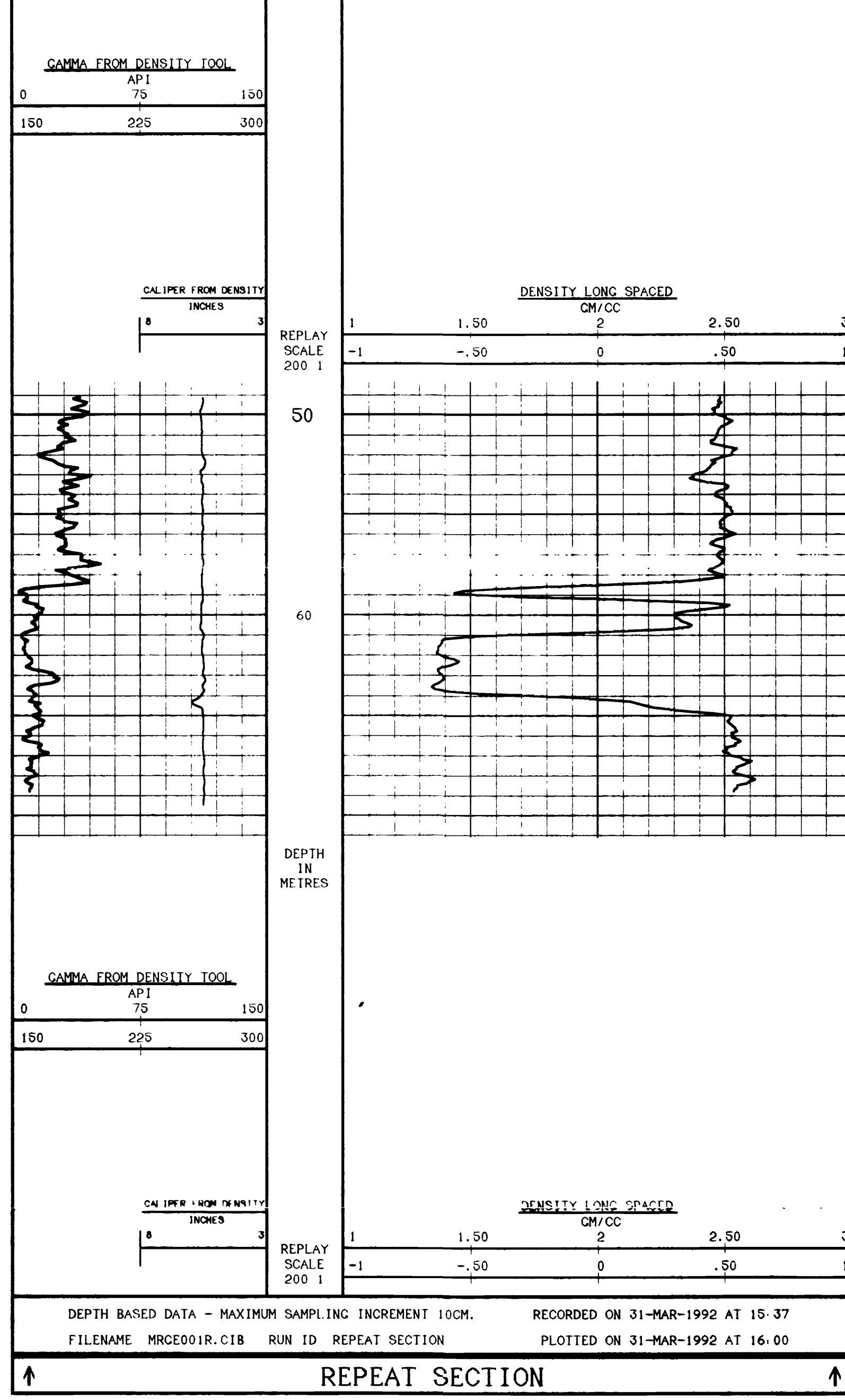
DEPTH BASED DATA - MAXIMUM SAMPLING INCREMENT 10CM. RECORDED ON 31-MAR-1992 AT 15.39  
FILENAME MRCE001M.CIB RUN ID MAIN LOG PLOTTED ON 31-MAR-1992 AT 16.01



DEPTH BASED DATA - MAXIMUM SAMPLING INCREMENT 10CM. RECORDED ON 31-MAR-1992 AT 15.39  
FILENAME MRCE001M.CIB RUN ID MAIN LOG PLOTTED ON 31-MAR-1992 AT 16.01

**REPEAT SECTION**

DEPTH BASED DATA - MAXIMUM SAMPLING INCREMENT 10CM. RECORDED ON 31-MAR-1992 AT 15.37  
FILENAME MRCE001R.CIB RUN ID REPEAT SECTION PLOTTED ON 31-MAR-1992 AT 16.00

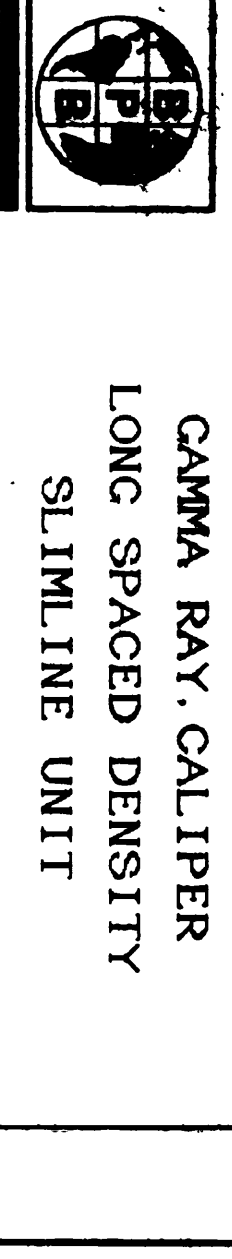


DEPTH BASED DATA - MAXIMUM SAMPLING INCREMENT 10CM. RECORDED ON 31-MAR-1992 AT 15.37  
FILENAME MRCE001R.CIB RUN ID REPEAT SECTION PLOTTED ON 31-MAR-1992 AT 16.00

**REPEAT SECTION**

DEPTH BASED DATA - MAXIMUM SAMPLING INCREMENT 10CM. RECORDED ON 31-MAR-1992 AT 15.37  
FILENAME MRCE001R.CIB RUN ID REPEAT SECTION PLOTTED ON 31-MAR-1992 AT 16.00

COMPANY BRINCO COAL MINING CORP.  
WELL 92-001  
FIELD QUINSAM  
PROVINCE/COUNTY BRITISH COLUMBIA  
COUNTRY/STATE CANADA



**GAMMA RAY CALIPER  
LONG SPACED DENSITY  
SLIMLINE UNIT**

COMPANY BRINCO COAL MINING CORP.  
WELL 92-002  
FIELD QUINSAM

LOCATION CAMPBELL RIVER  
PRVNC/CO. BRITISH COLUMBIA  
FIELD QUINSAM  
WELL 92-002  
COMPANY BRINCO COAL MINING CORP.  
PROVINCE/COUNTY BRITISH COLUMBIA  
COUNTRY/STATE CANADA

OTHER SERVICES  
DIPMETER  
FE

PERMANENT DATUM CL. ELEVATION 310.90 M  
LOC MEASURED FROM CL. ABOVE PERMANENT DATUM  
DATE 31-MAR-92  
DRILLING MEASURED FROM CL. ELEVATIONS  
K8 CL. 310.90 M  
K9 CL. 310.90 M

RUN NUMBER 77-0 M  
DEPTH-DRILLER 77-0 M  
DEPTH-LOGGER 77-0 M  
FIRST READING 0  
LAST READING 4.4 M  
CASTING-DRILLER 4.4 M  
CASTING-LOGGER 4.4 M  
BIT SIZE 5.5"

HOLE FLUID TYPE WATER  
DENS. VITSC. 1.1  
PH/LUID LOSS N/A  
SAMPLE SOURCE N/A  
RMC @ HEAS TEMP  
RMC @ HEAS TEMP  
SOURCE IHT/INIC  
RN @ BHI  
TIME SINCE CIRC  
MAX REC TEMP  
EQUIPMENT/BASE  
RECORDED BY V223 REEFER  
WITNESSED BY JCV

BRINCO COAL MINING CORP.  
CAMPBELL RIVER  
SLIMLINE UNIT

RUN NUMBER	BORHOLE RECORD	CASING RECORD
ONE	BIT FROM TO	SIZE VEIGHT FROM TO
ONE	5.5" 13.0 M 77.0 M	7" 0 10.5 M

EQUIPMENT	RUN 1	RUN 2	RUN 3	RUN 4
DD1	110			

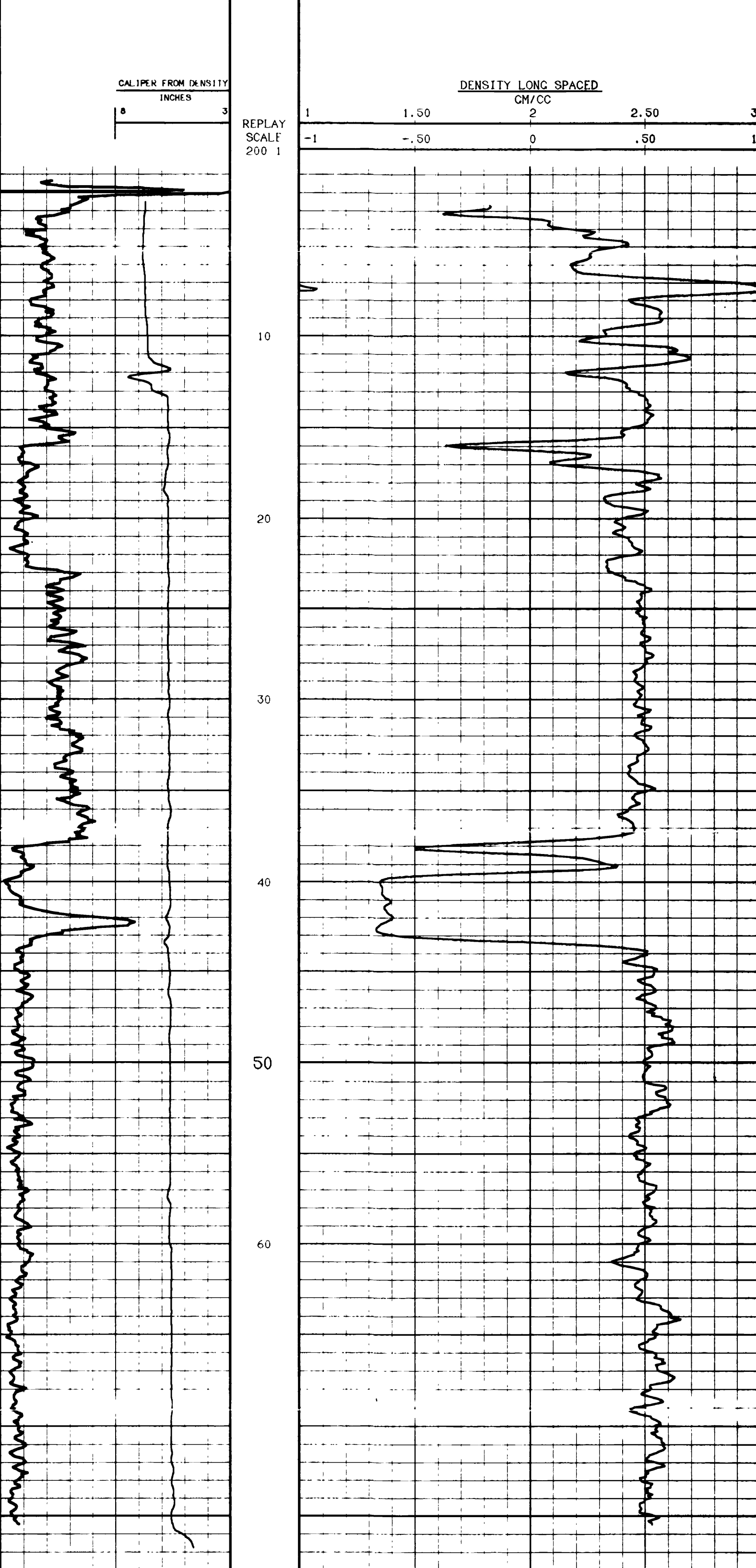
REMARKS  
GAMMA RAY CALIPER LONG SPACED DENSITY SLIMLINE UNIT  
N 103 394.909 E 99 765.105

SYSTEM CONFIGURATION DATES LOGGED PROCESSED PLOTTED

ALL INTERPRETATIONS ARE OPINIONS BASED ON INFERENCE FROM ELECTRICAL OR OTHER MEASUREMENTS AND WE CANNOT GUARANTEE THE ACCURACY OR CORRECTNESS OF ANY INTERPRETATIONS AND WE SHALL NOT, EXCEPT IN THE CASE OF GROSS OR WILFUL NEGLIGENCE ON OUR PART, BE LIABLE OR RESPONSIBLE FOR ANY LOSS, COSTS, DAMAGES OR EXPENSES INCURRED OR SUSTAINED BY ANYONE RESULTING FROM ANY INTERPRETATION MADE BY ANY OF OUR OFFICERS, AGENTS OR EMPLOYEES. THESE INTERPRETATIONS ARE ALSO SUBJECT TO OUR GENERAL TERMS AND CONDITIONS IN OUR PRICE SCHEDULE

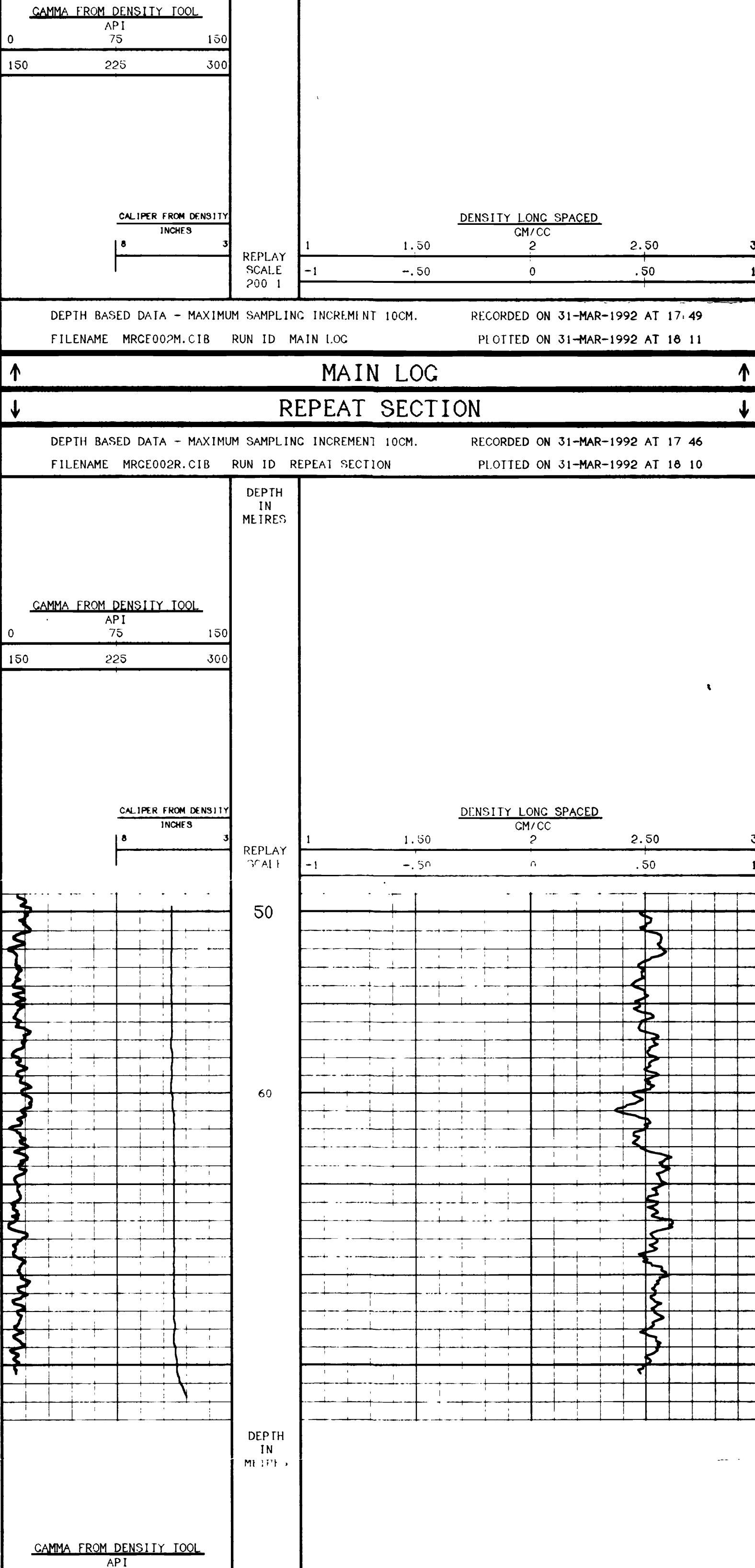
**MAIN LOG**

DEPTH BASED DATA - MAXIMUM SAMPLING INCREMENT 10CM. RECORDED ON 31-MAR-1992 AT 17 49  
FILENAME MRCE002M.CIB RUN ID MAIN LOG PLOTTED ON 31-MAR-1992 AT 18 11



**REPEAT SECTION**

DEPTH BASED DATA - MAXIMUM SAMPLING INCREMENT 10CM. RECORDED ON 31-MAR-1992 AT 17 46  
FILENAME MRCE002R.CIB RUN ID REPEAT SECTION PLOTTED ON 31-MAR-1992 AT 18 10



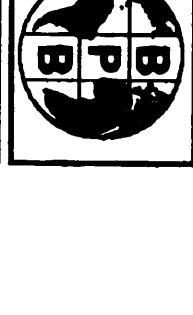
**REPEAT SECTION**

DEPTH BASED DATA - MAXIMUM SAMPLING INCREMENT 10CM. RECORDED ON 31-MAR-1992 AT 17 46  
FILENAME MRCE002R.CIB RUN ID REPEAT SECTION PLOTTED ON 31-MAR-1992 AT 18 10

COMPANY BRINCO COAL MINING CORP.  
WELL 92-002  
FIELD QUINSAM  
PROVINCE/COUNTY BRITISH COLUMBIA  
COUNTRY/STATE CANADA





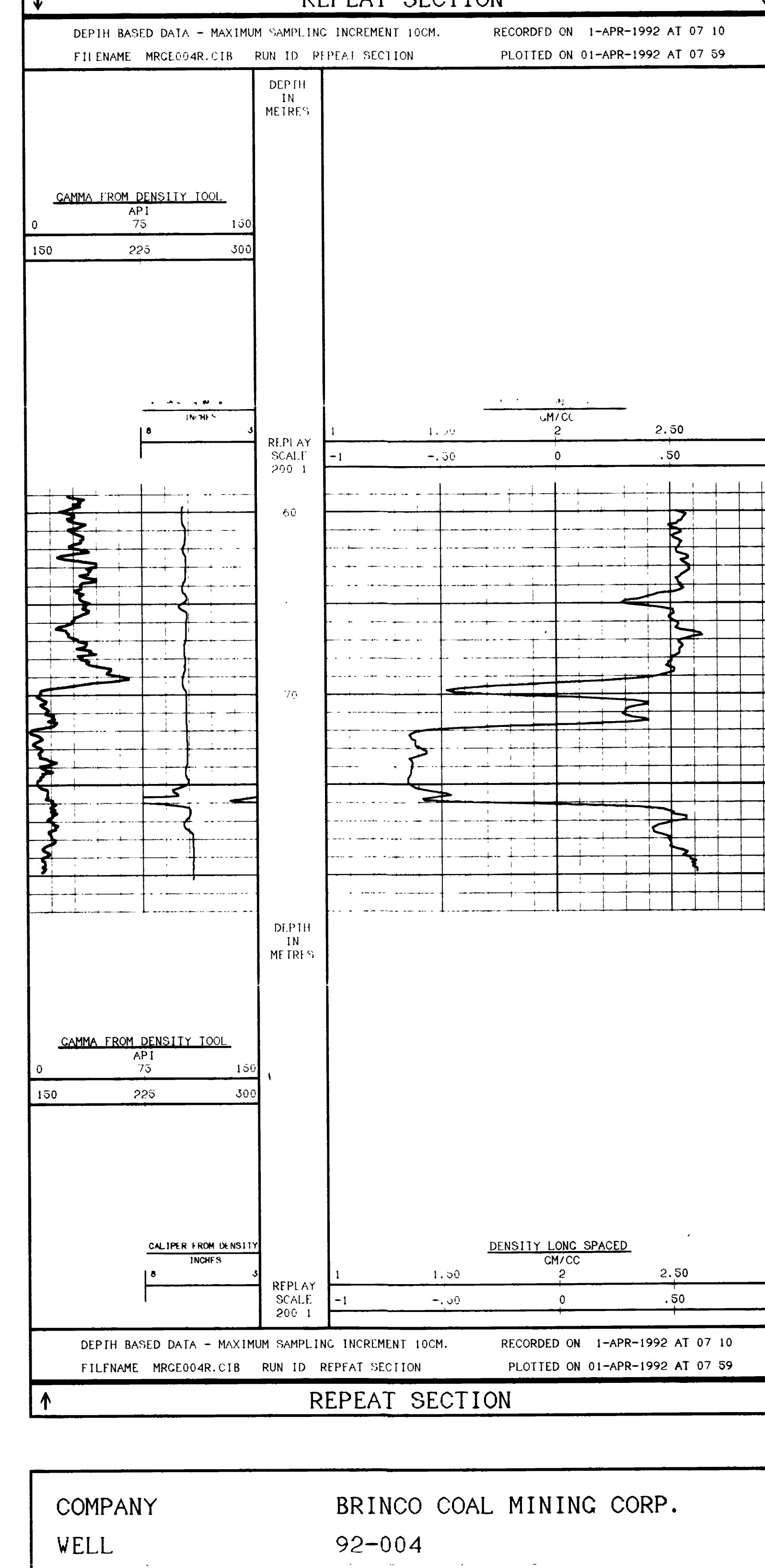
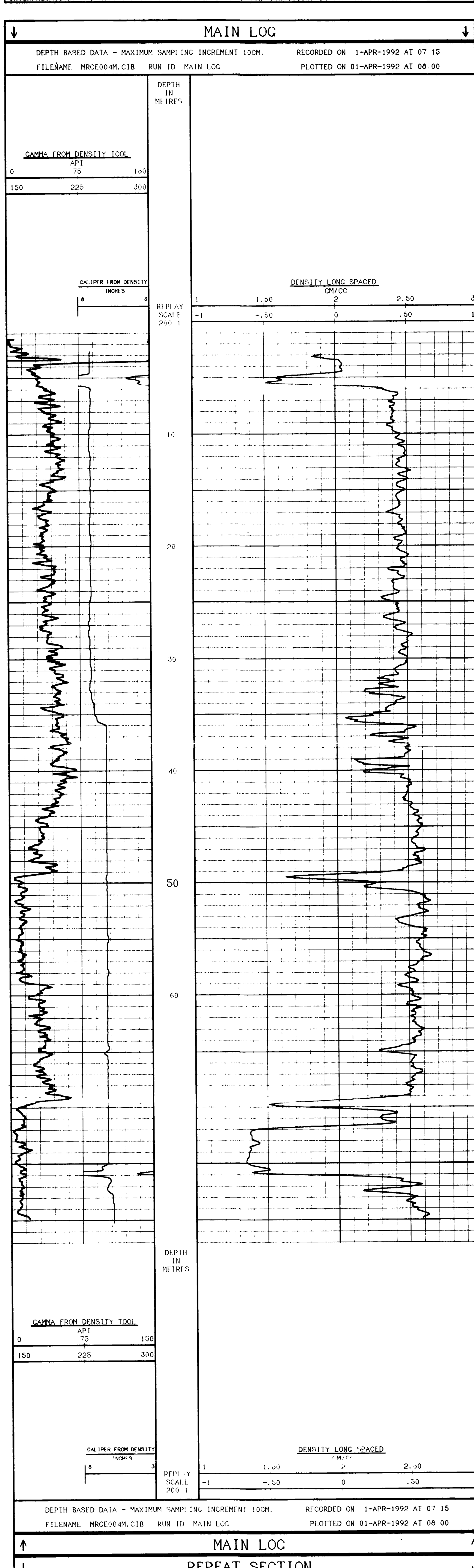


**GAMMA RAY CALIPER  
LONG SPACED DENSITY  
SLIMLINE UNIT**

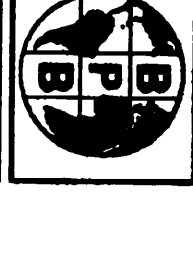
LOCATION	CAMPBELL RIVER	COMPANY	BRINCO COAL MINING CORP.
PRVNC/CO.	BRITISH COLUMBIA	WELL	92-004
FIELD	QUINSAM	PROVINCE/COUNTY	BRITISH COLUMBIA
WELL	92-004	COUNTRY/STATE	CANADA
COMPANY	BRINCO COAL MINING CORP.	LOCATION	CAMPBELL RIVER
OTHER SERVICES	DIPMETER	PERMANENT DATUM	CL
LOC. MEASURED FROM	CL	DRILLING MEASURED FROM	CL
ELEVATION	311.66 M	PERMANENT DATUM	CL
DRILLING MEASURED FROM	CL	ELEVATION	311.66 M
DATE	1-APR-92	DRILLING MEASURED FROM	CL
RUN NUMBER	ONE	PERMANENT DATUM	CL
DEPTH-DRILLER	64.0 M	DRILLING MEASURED FROM	CL
DEPTH-OCCUR	61.6 M	PERMANENT DATUM	CL
FIRST READING	01.6 M	DRILLING MEASURED FROM	CL
LAST READING	0	PERMANENT DATUM	CL
CASING-DRILLER	3.6 M	DRILLING MEASURED FROM	CL
BIT SIZE	5.5"	PERMANENT DATUM	CL
HOLE FLUID TYPE	WATER	DRILLING MEASURED FROM	CL
PH/FLUID LOSS	1.1	PERMANENT DATUM	CL
SAMPLE SOURCE	N/A	DRILLING MEASURED FROM	CL
PH/FLUID LOSS	N/A	PERMANENT DATUM	CL
SAMPLE TEMP		DRILLING MEASURED FROM	CL
PH/FLUID LOSS		PERMANENT DATUM	CL
SOURCE		DRILLING MEASURED FROM	CL
PH/FLUID LOSS		PERMANENT DATUM	CL
MAX REC TEMP		DRILLING MEASURED FROM	CL
PH/FLUID LOSS		PERMANENT DATUM	CL
EQUIPMENT/BASE	V253 TREIDER	DRILLING MEASURED FROM	CL
RECORDED BY	JCV	PERMANENT DATUM	CL
WITNESSED BY		DRILLING MEASURED FROM	CL

RUN NUMBER	BOREHOLE RECORD			CASING RECORD			
	BIT	FROM	TO	SIZE	VEICH	FROM	TO
ONE	5.5"	35.5 M	64.0 M	7"		0	3.6 M
EQUIPMENT							
DD1		RUN 1 110	RUN 2	RUN 3	RUN 4		
<b>REMARKS</b>							
GAMMA RAY CALIPER LONG SPACED DENSITY SLIMLINE UNIT							
N 103 355.991 E 100 002.72							
SYSTEM CONFIGURATION DATES LOGGED PROCESSED PLOTTED							

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COMPANY	BRINCO COAL MINING CORP.
WELL	92-004
FIELD	QUINSAM
PROVINCE/COUNTY	BRITISH COLUMBIA
COUNTRY/STATE	CANADA



**CAMMA RAY, CALIPER  
LONG SPACED DENSITY  
SLIMLINE UNIT**

LOCATION	CAMPBELL RIVER	PROVINCE/COUNTRY	BRITISH COLUMBIA
PRVNC/CO.	BRITISH COLUMBIA	COUNTRY/STATE	CANADA
WELL	92-005	FIELD	QUINSAM
92-005			
COMPANY	BRINCO COAL MINING CORP.		
BRINCO COAL MINING CORP.			
LOCATION	CAMPBELL RIVER	OTHER SERVICES	DIPMETER
LSO		SFC	
TYP		REL	
ELEVATION	311.95 M	ABOVE PERMANENT DATUM	
LOC MEASURED FROM CL		CL	311.95 M
DRILLING MEASURED FROM CL		CL	311.95 M
DATE	1-APR-92		
RUN NUMBER	ONE		
DEPTH-BRITTLER	76.4 M		
DEPTH-LOGGER	77.2 M		
FIRST READING	77.2 M		
LAST READING	0		
COSTING-BRITTLER	5.7 M		
COSTING-LOGGER	5.7 M		
BIT SIZE	5.5"		
HOLE FLUID TYPE	WATER		
DENS./VISC.	1.1		
PH/FLUID LOSS	N/A		
SAMPLE SOURCE	N/A		
RF @ HEAS TEMP			
RF @ HEAS TEMP			
SOURCE	BRH/IRAC		
RF @ BRH			
TIME SINCE CIRG			
MAX NEG TEMP			
SOUL/PERM/PAUSE			
RECORDED BY	V223 JR DEER		
WITNESSED BY	JOV		

RUN NUMBER	BOREHOLE RECORD			CASING RECORD			
	BIT	FROM	TO	SIZE	WEIGHT	FROM	TO
ONE	3.5"	33.4 M	76.4 M	7"		0	3.7 M

EQUIPMENT	RUN 1	RUN 2	RUN 3	RUN 4
DD1	110			

**REMARKS**

CAMMA RAY CALIPER LONG SPACED DENSITY SLIMLINE UNIT

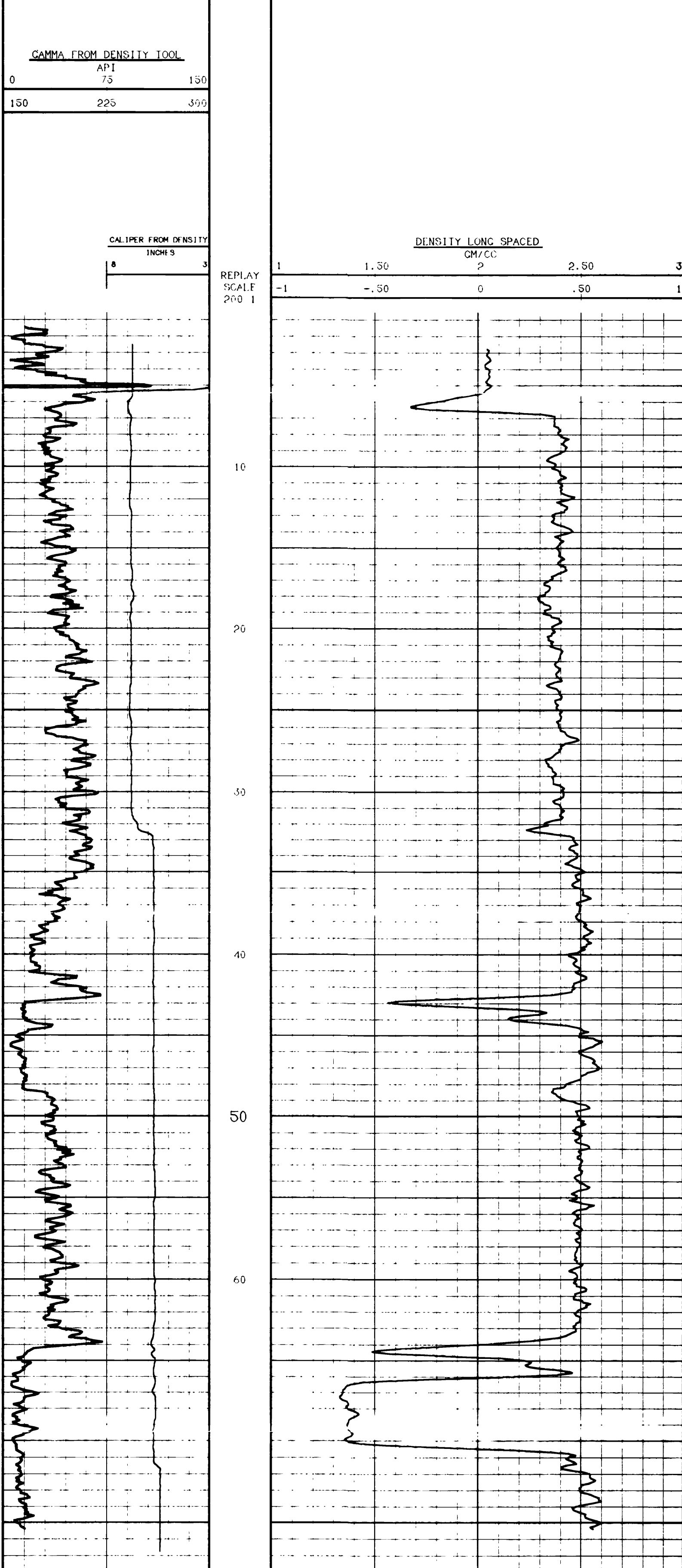
N 103 2/7.52 I 99 939.35

SYSTEM CONFIGURATION DATES LOGGED PROCESSED PLOTTED

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**MAIN LOG**

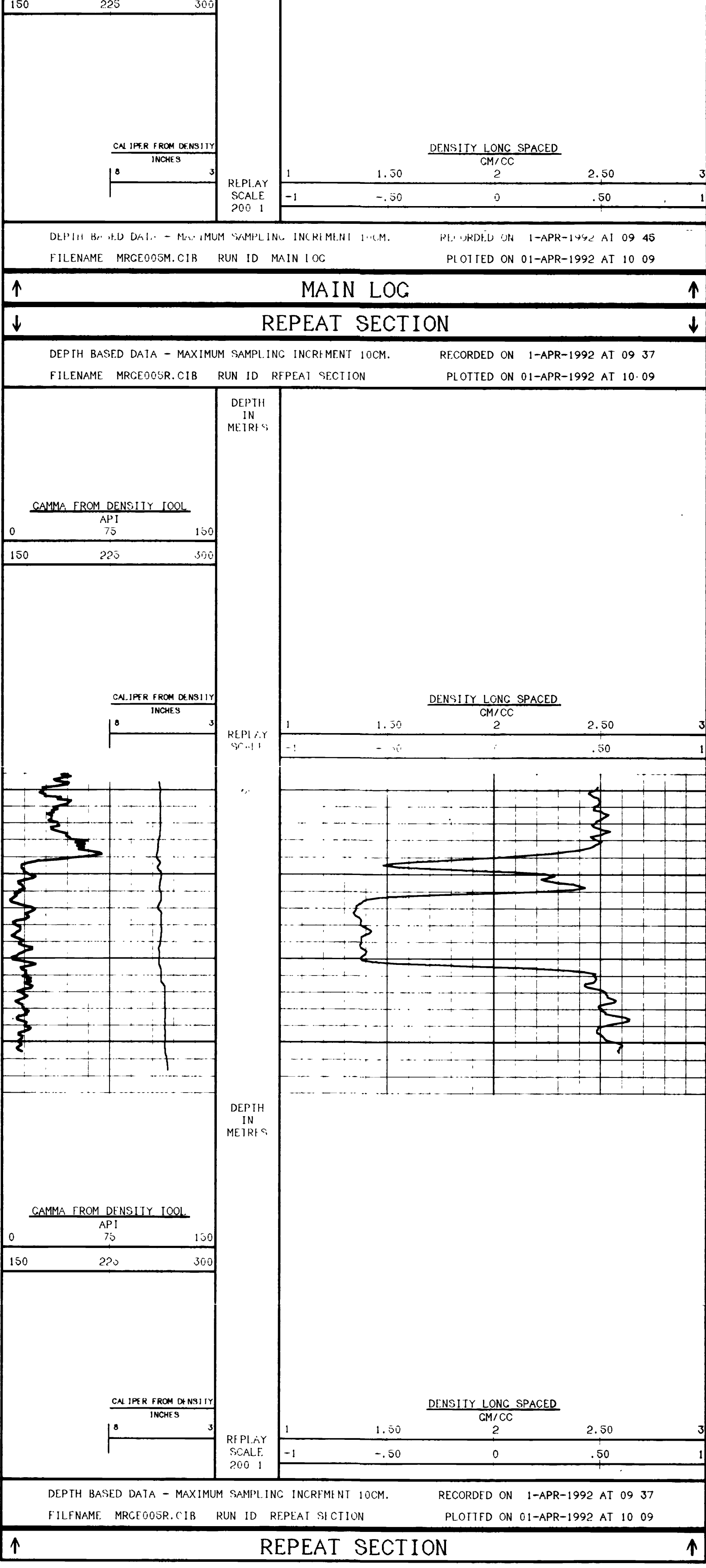
DEPTH BASED DATA - MAXIMUM SAMPLING INCREMENT 10CM. RECORDED ON 1-APR-1992 AT 09 45  
 FILENAME MRCE005M.C1B RUN ID MAIN LOG PLOTTED ON 01-APR-1992 AT 10 09



DEPTH BASED DATA - MAXIMUM SAMPLING INCREMENT 10CM. RECORDED ON 1-APR-1992 AT 09 45  
 FILENAME MRCE005M.C1B RUN ID MAIN LOG PLOTTED ON 01-APR-1992 AT 10 09

**REPEAT SECTION**

DEPTH BASED DATA - MAXIMUM SAMPLING INCREMENT 10CM. RECORDED ON 1-APR-1992 AT 09 37  
 FILENAME MRCE005R.C1B RUN ID REPEAT SECTION PLOTTED ON 01-APR-1992 AT 10 09



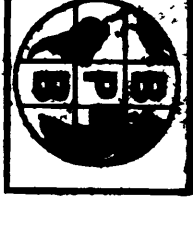
DEPTH BASED DATA - MAXIMUM SAMPLING INCREMENT 10CM. RECORDED ON 1-APR-1992 AT 09 37  
 FILENAME MRCE005R.C1B RUN ID REPEAT SECTION PLOTTED ON 01-APR-1992 AT 10 09

**REPEAT SECTION**

COMPANY	BRINCO COAL MINING CORP.
WELL	92-005
FIELD	QUINSAM
PROVINCE/COUNTRY	BRITISH COLUMBIA
COUNTRY/STATE	CANADA







**GAMMA RAY, CALIPER  
LONG SPACED DENSITY  
SLIMLINE UNIT**

COMPANY BRINCO COAL MINING CORP.	WELL 92-007	FIELD QUINSAM	PROVINCE/COUNTY BRITISH COLUMBIA	COUNTRY/STATE CANADA
LOCATION CAMPBELL RIVER	OTHER SERVICES DIPMETER	ELEVATION 321.85 M		
PRVNC/CO. BRITISH COLUMBIA	LOC MEASURED FROM CL	PERMANENT DATUM CL	LOC MEASURED FROM CL	ELEVATION 321.85 M
FIELD 92-007	LOCATION CAMPBELL RIVER	DATE 1-APR-92	DRILLING MEASURED FROM CL	ELEVATION 321.85 M
COMPANY BRINCO COAL MINING CORP.	LOCATION CAMPBELL RIVER	DATE 1-APR-92	DRILLING MEASURED FROM CL	ELEVATION 321.85 M
WELL 92-007	LOCATION CAMPBELL RIVER	DATE 1-APR-92	DRILLING MEASURED FROM CL	ELEVATION 321.85 M
FIELD QUINSAM	LOCATION CAMPBELL RIVER	DATE 1-APR-92	DRILLING MEASURED FROM CL	ELEVATION 321.85 M
PROVINCE/COUNTY BRITISH COLUMBIA	LOCATION CAMPBELL RIVER	DATE 1-APR-92	DRILLING MEASURED FROM CL	ELEVATION 321.85 M
COUNTRY/STATE CANADA	LOCATION CAMPBELL RIVER	DATE 1-APR-92	DRILLING MEASURED FROM CL	ELEVATION 321.85 M
LOCATION CAMPBELL RIVER	LOCATION CAMPBELL RIVER	DATE 1-APR-92	DRILLING MEASURED FROM CL	ELEVATION 321.85 M
OTHER SERVICES DIPMETER	LOCATION CAMPBELL RIVER	DATE 1-APR-92	DRILLING MEASURED FROM CL	ELEVATION 321.85 M
ELEVATION 321.85 M	LOCATION CAMPBELL RIVER	DATE 1-APR-92	DRILLING MEASURED FROM CL	ELEVATION 321.85 M
ELEVATION 321.85 M	LOCATION CAMPBELL RIVER	DATE 1-APR-92	DRILLING MEASURED FROM CL	ELEVATION 321.85 M

RUN NUMBER	BOREHOLE RECORD	CASING RECORD
811	FROM TO	SIZE WEIGHT FROM TO
ONE	5.3" 52.9 M 79.9 M	7" 0 6.0 M

EQUIPMENT	RUN 1	RUN 2	RUN 3	RUN 4
DDI	110			

**REMARKS**

GAMMA RAY, CALIPER LONG SPACED DENSITY SLIMLINE UNIT

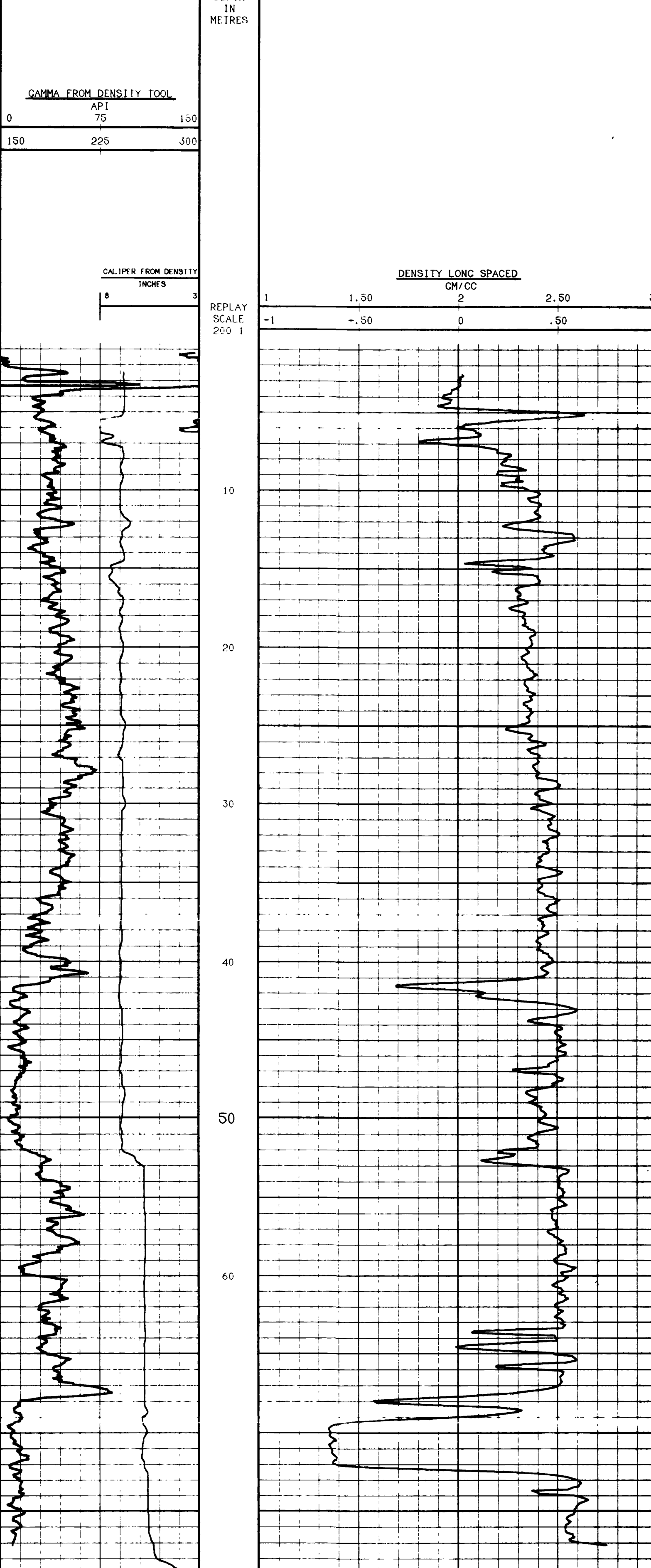
N 102 999.499 E 99 868.12

SYSTEM CONFIGURATION DATES LOGGED PROCESSED PLOTTED

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**MAIN LOG**

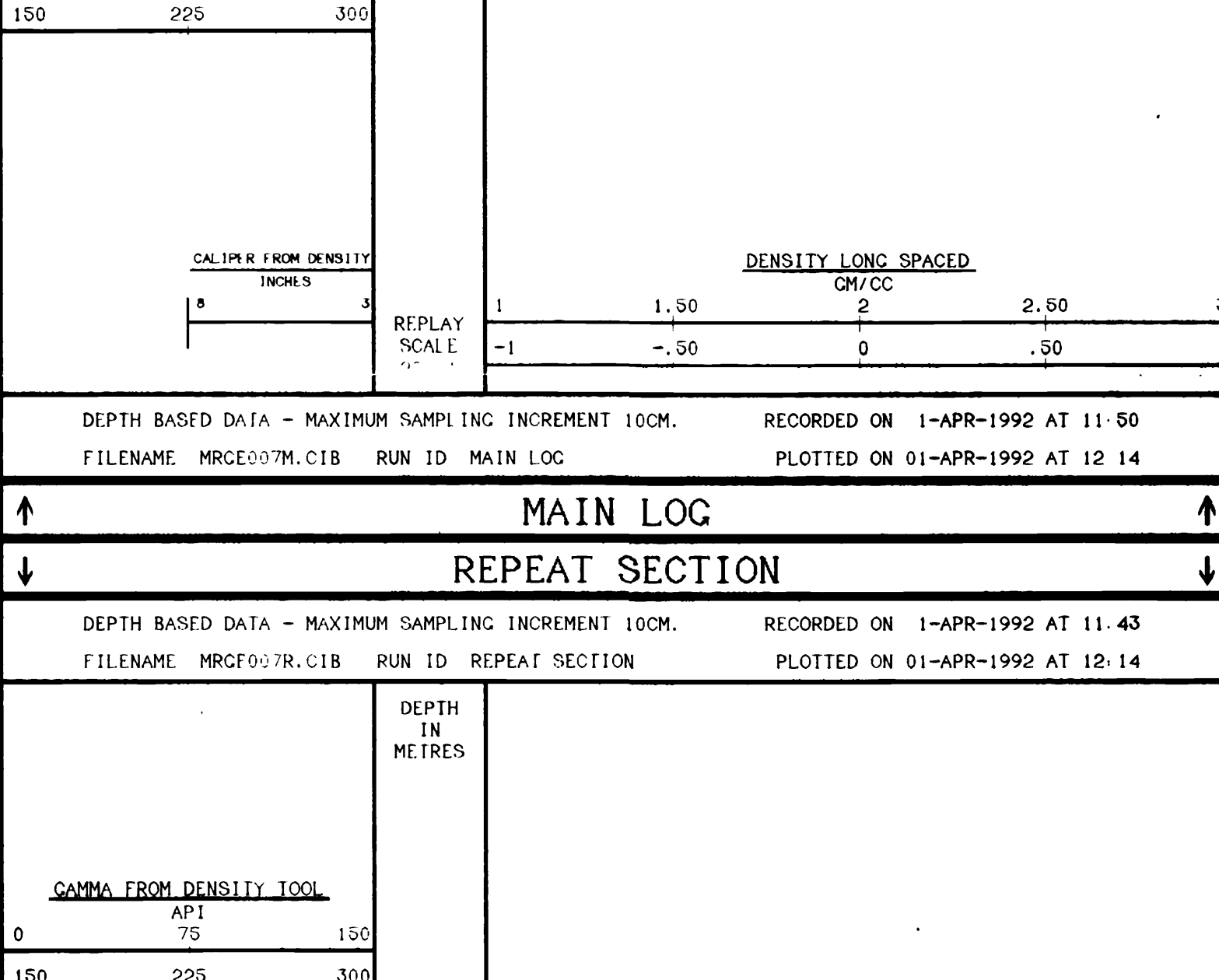
DEPTH BASED DATA - MAXIMUM SAMPLING INCREMENT 10CM. RECORDED ON 1-APR-1992 AT 11:50  
FILENAME MRCE007M.CIB RUN ID MAIN LOG PLOTTED ON 01-APR-1992 AT 12:14



DEPTH BASED DATA - MAXIMUM SAMPLING INCREMENT 10CM. RECORDED ON 1-APR-1992 AT 11:50  
FILENAME MRCE007M.CIB RUN ID MAIN LOG PLOTTED ON 01-APR-1992 AT 12:14

**MAIN LOG**

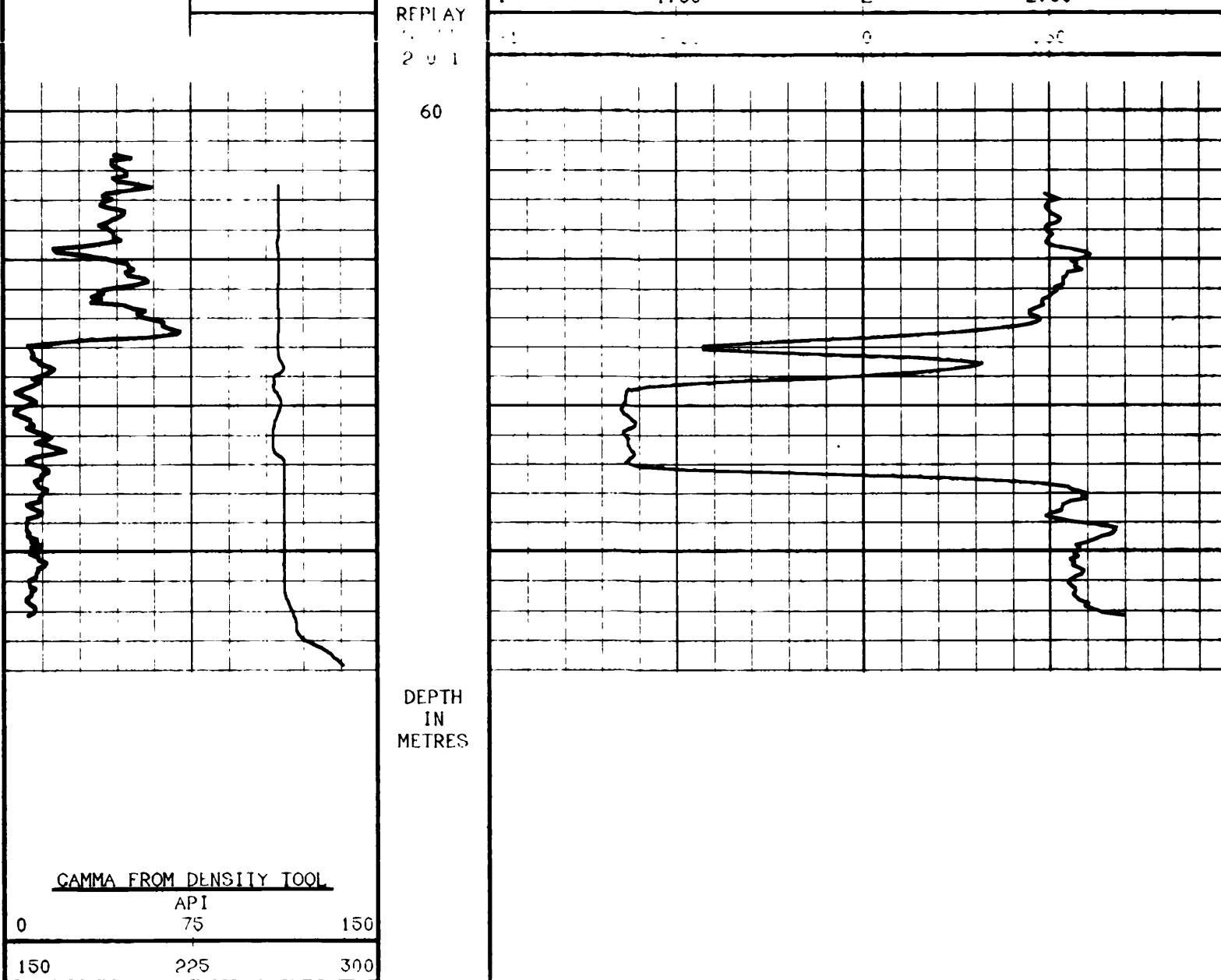
DEPTH BASED DATA - MAXIMUM SAMPLING INCREMENT 10CM. RECORDED ON 1-APR-1992 AT 11:43  
FILENAME MRCE007R.CIB RUN ID REPEAT SECTION PLOTTED ON 01-APR-1992 AT 12:14



DEPTH BASED DATA - MAXIMUM SAMPLING INCREMENT 10CM. RECORDED ON 1-APR-1992 AT 11:43  
FILENAME MRCE007R.CIB RUN ID REPEAT SECTION PLOTTED ON 01-APR-1992 AT 12:14

**REPEAT SECTION**

DEPTH BASED DATA - MAXIMUM SAMPLING INCREMENT 10CM. RECORDED ON 1-APR-1992 AT 11:43  
FILENAME MRCE007R.CIB RUN ID REPEAT SECTION PLOTTED ON 01-APR-1992 AT 12:14



DEPTH BASED DATA - MAXIMUM SAMPLING INCREMENT 10CM. RECORDED ON 1-APR-1992 AT 11:43  
FILENAME MRCE007R.CIB RUN ID REPEAT SECTION PLOTTED ON 01-APR-1992 AT 12:14

**REPEAT SECTION**

DEPTH BASED DATA - MAXIMUM SAMPLING INCREMENT 10CM. RECORDED ON 1-APR-1992 AT 11:43  
FILENAME MRCE007R.CIB RUN ID REPEAT SECTION PLOTTED ON 01-APR-1992 AT 12:14

**REPEAT SECTION**

DEPTH BASED DATA - MAXIMUM SAMPLING INCREMENT 10CM. RECORDED ON 1-APR-1992 AT 11:43  
FILENAME MRCE007R.CIB RUN ID REPEAT SECTION PLOTTED ON 01-APR-1992 AT 12:14

**REPEAT SECTION**

DEPTH BASED DATA - MAXIMUM SAMPLING INCREMENT 10CM. RECORDED ON 1-APR-1992 AT 11:43  
FILENAME MRCE007R.CIB RUN ID REPEAT SECTION PLOTTED ON 01-APR-1992 AT 12:14

**REPEAT SECTION**

DEPTH BASED DATA - MAXIMUM SAMPLING INCREMENT 10CM. RECORDED ON 1-APR-1992 AT 11:43  
FILENAME MRCE007R.CIB RUN ID REPEAT SECTION PLOTTED ON 01-APR-1992 AT 12:14

**REPEAT SECTION**

DEPTH BASED DATA - MAXIMUM SAMPLING INCREMENT 10CM. RECORDED ON 1-APR-1992 AT 11:43  
FILENAME MRCE007R.CIB RUN ID REPEAT SECTION PLOTTED ON 01-APR-1992 AT 12:14

**REPEAT SECTION**

DEPTH BASED DATA - MAXIMUM SAMPLING INCREMENT 10CM. RECORDED ON 1-APR-1992 AT 11:43  
FILENAME MRCE007R.CIB RUN ID REPEAT SECTION PLOTTED ON 01-APR-1992 AT 12:14

**REPEAT SECTION**

DEPTH BASED DATA - MAXIMUM SAMPLING INCREMENT 10CM. RECORDED ON 1-APR-1992 AT 11:43  
FILENAME MRCE007R.CIB RUN ID REPEAT SECTION PLOTTED ON 01-APR-1992 AT 12:14

**REPEAT SECTION**

DEPTH BASED DATA - MAXIMUM SAMPLING INCREMENT 10CM. RECORDED ON 1-APR-1992 AT 11:43  
FILENAME MRCE007R.CIB RUN ID REPEAT SECTION PLOTTED ON 01-APR-1992 AT 12:14

**REPEAT SECTION**

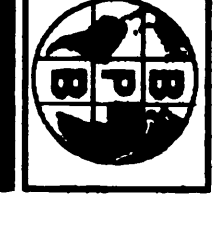
DEPTH BASED DATA - MAXIMUM SAMPLING INCREMENT 10CM. RECORDED ON 1-APR-1992 AT 11:43  
FILENAME MRCE007R.CIB RUN ID REPEAT SECTION PLOTTED ON 01-APR-1992 AT 12:14

**REPEAT SECTION**

DEPTH BASED DATA - MAXIMUM SAMPLING INCREMENT 10CM. RECORDED ON 1-APR-1992 AT 11:43  
FILENAME MRCE007R.CIB RUN ID REPEAT SECTION PLOTTED ON 01-APR-1992 AT 12:14

COMPANY	BRINCO COAL MINING CORP.
WELL	92-007
FIELD	QUINSAM
PROVINCE/COUNTY	BRITISH COLUMBIA
COUNTRY/STATE	CANADA





**CAMMA RAY, CALIPER**  
**LONG SPACED DENSITY**  
**SLIMLINE UNIT**

COMPANY **BRINCO COAL MINING CORP.**  
 WELL **92-009**  
 FIELD **QUINSAM**  
 PROVINCE/COUNTY **BRITISH COLUMBIA**  
 COUNTRY/STATE **CANADA**

LOCATION **CAMPBELL RIVER**  
 PRVNC/CO. **BRITISH COLUMBIA**  
 FIELD **QUINSAM**  
 VELL **92-009**  
 COMPANY **BRINCO COAL MINING CORP.**

PERMANENT DATUM CL  
 LOC MEASURED FROM CL  
 DRILLING MEASURED FROM CL  
 DATE **1-APR-92**  
 RUN NUMBER **ONE**  
 DEPTH-DRILLER **64.9 M**  
 DEPTH-LOGGER **64.3 M**  
 FIRST READING **0**  
 LAST READING **2.5 M**  
 COSTING-DRILLER **2.5 M**  
 COSTING-LOGGER **2.5 M**  
 BIT SIZE **5.5"**  
 HOLE FLUID TYPE **WATER**  
 TEMS. LOSS **1.1**  
 MUD/LUID LOSS **N/A**  
 SAMPLE SOURCE **N/A**  
 SURF @ MEAS TEMP  
 SURF @ HIAS TEMP  
 SURFACE RH/IR/C  
 RH @ BHI  
 TIME SINCE CIRC  
 MAX REC TEMP  
 EQUIPMENT/BASE  
 RECORDED BY **V253 JCV**  
 WITNESSED BY

RUN NUMBER	BOREHOLE RECORD		CASING RECORD			
	BIT	FROM TO	SIZE	WEIGHT	FROM	TO
ONE	5.5"	34.6 M 64.9 M	7"		0	2.5 M

EQUIPMENT	RUN 1	RUN 2	RUN 3	RUN 4
DD1	110			

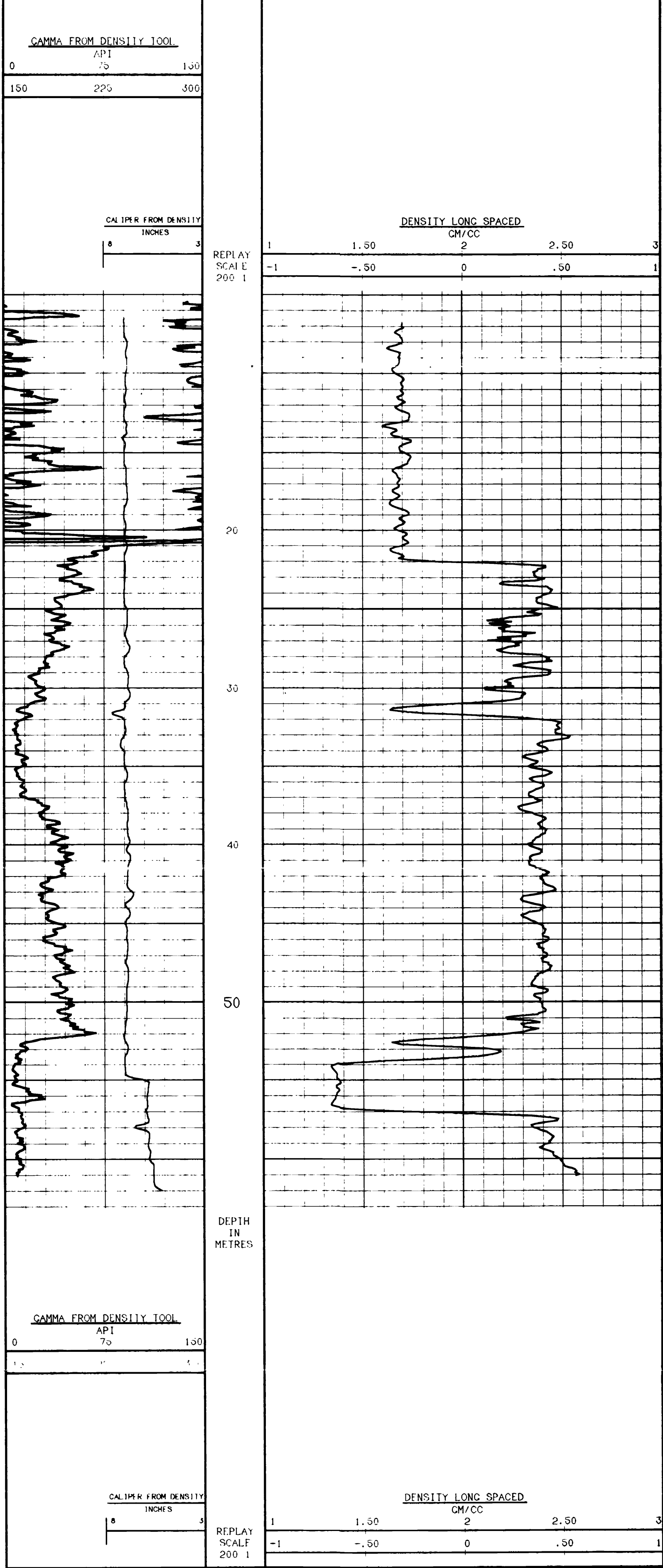
**REMARKS**  
 CAMMA RAY CALIPER LONG SPACED DENSITY SLIMLINE UNIT  
 N 103 19.2.99 L 93 796.674

SYSTEM CONFIGURATION DATES: LOGGED PROCESSED PLOTTED

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**MAIN LOG**

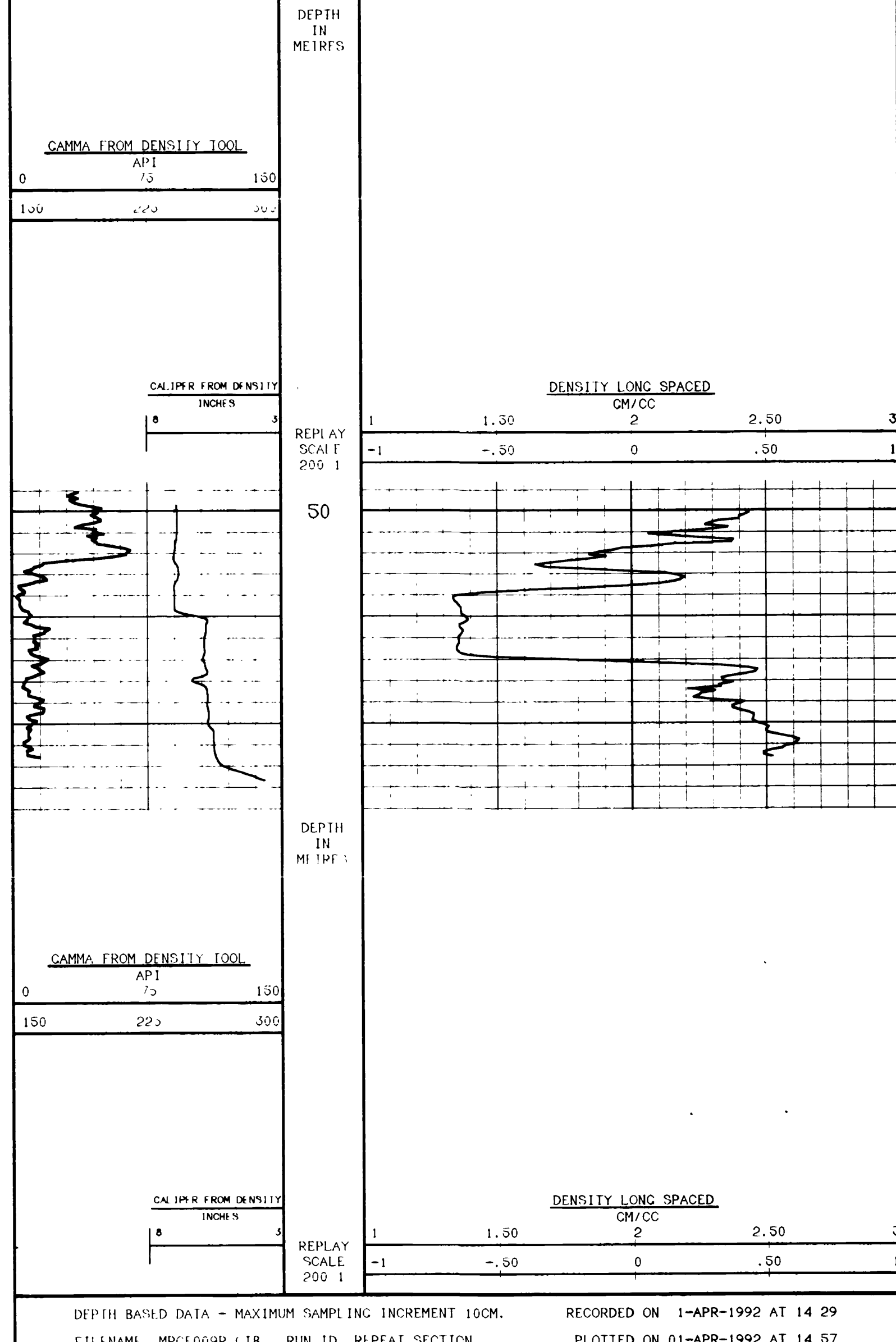
DEPTH BASED DATA - MAXIMUM SAMPLING INCREMENT 10CM. RECORDED ON 1-APR-1992 AT 14 36  
 FILENAME MRCF009M.CIB RUN ID MAIN LOG PLOTTED ON 01-APR-1992 AT 14 57



DEPTH BASED DATA - MAXIMUM SAMPLING INCREMENT 10CM. RECORDED ON 1-APR-1992 AT 14 36  
 FILENAME MRCF009M.CIB RUN ID MAIN LOG PLOTTED ON 01-APR-1992 AT 14 57

**REPEAT SECTION**

DEPTH BASED DATA - MAXIMUM SAMPLING INCREMENT 10CM. RECORDED ON 1-APR-1992 AT 14 29  
 FILENAME MRCF009R.CIB RUN ID REPEAT SECTION PLOTTED ON 01-APR-1992 AT 14 57



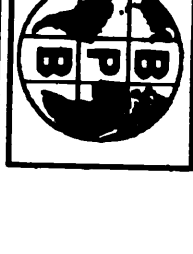
DEPTH BASED DATA - MAXIMUM SAMPLING INCREMENT 10CM. RECORDED ON 1-APR-1992 AT 14 29  
 FILENAME MRCF009R.CIB RUN ID REPEAT SECTION PLOTTED ON 01-APR-1992 AT 14 57

**REPEAT SECTION**

COMPANY **BRINCO COAL MINING CORP.**  
 WELL **92-009**  
 FIELD **QUINSAM**  
 PROVINCE/COUNTY **BRITISH COLUMBIA**  
 COUNTRY/STATE **CANADA**







**GAMMA RAY CALIPER  
LONG SPACED DENSITY  
SLIMLINE UNIT**

LOCATION PRVNC/CO. BRITISH COLUMBIA FIELD QUINSAM	COMPANY BRINCO COAL MINING CORP.
WELL 92-011	PROVINCE/COUNTY BRITISH COLUMBIA
COUNTRY/STATE CANADA	
LOCATION CAMPBELL RIVER	OTHER SERVICES: DIPMETER
PERMANENT DATUM CL	ELEVATION 516.46 M
DRILLING MEASURED FROM CL	ABOVE PERMANENT DATUM
DATE 1-APR-92	KL CL 516.46 M
RUN NUMBER 01F	
DEPTH-DRILLER 101.2 M	
DEPTH-LOGGER 96.1 M	
FIRST READING 0	
LAST READING 13.7 M	
CASING-DRILLER 13.6 M	
CASING-LOGGER 13.6 M	
BIT SIZE 5.5"	
HOE FLUID TYPE WATER	
DENS. / VISC. 1.1	
PHT/FLUID LOSS N/A	
SAMPLE SOURCE N/A	
REF @ HEAS TEMP	
REF @ HEAS TEMP	
SOURCE INT/IRAC	
REF @ BIT	
TIME STAMP CLRG	
MAX REG TEMP	
EQUIPMENT/BASE V223 REBEDEK	
RECORDED BY JCV	
WITNESSED BY	

RUN NUMBER	BOREHOLE RECORD	CASING RECORD
ONE	BIT FROM TO	WEIGHT FROM TO
	14. M 161.2 M	0 13.5 M
EQUIPMENT	RUN 1	RUN 2
DD1	119	

**REMARKS**

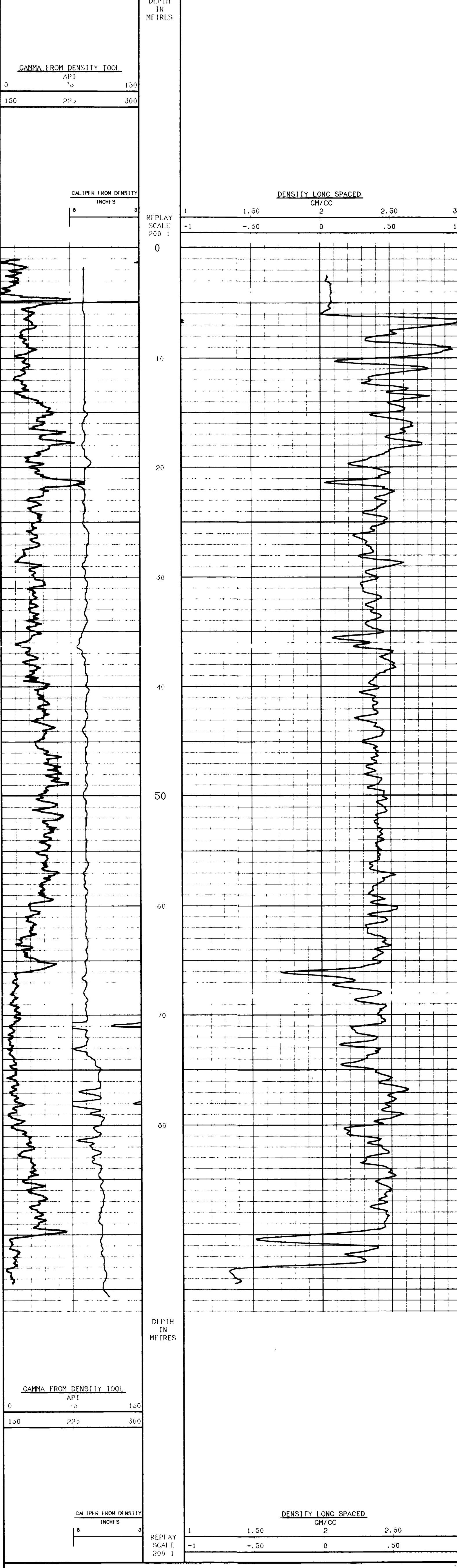
GAMMA RAY CALIPER LONG SPACED DENSITY SLIMLINE UNIT

N 103 201.00 I 150 193.90

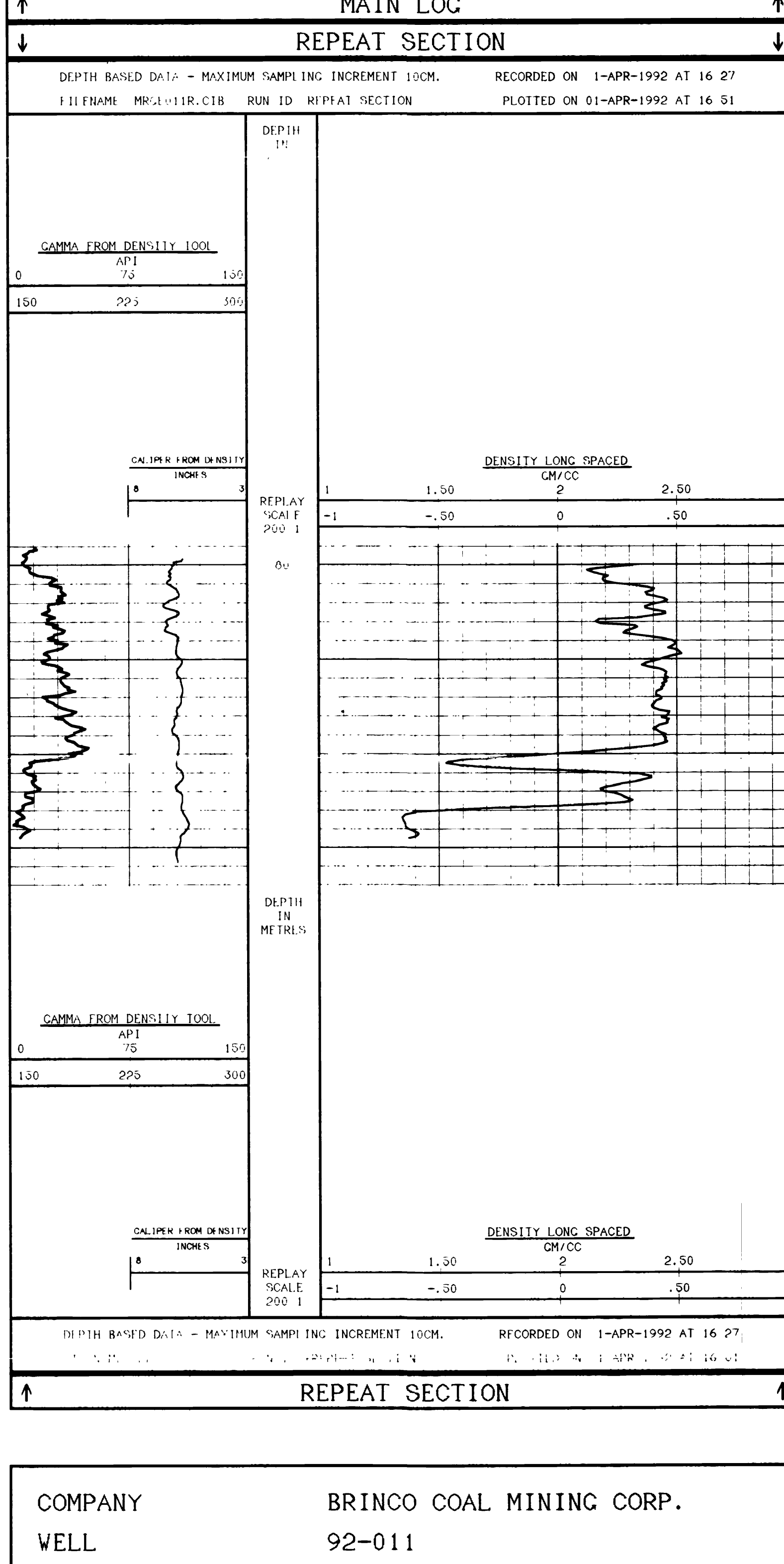
SYSTEM CONFIGURATION DATES LOGGED PROCESSED PLOTTED

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**MAIN LOG**



**REPEAT SECTION**

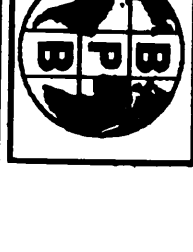


COMPANY	BRINCO COAL MINING CORP.
WELL	92-011
FIELD	QUINSAM
PROVINCE/COUNTY	BRITISH COLUMBIA
COUNTRY/STATE	CANADA









**CAMMA RAY, CALIPER  
LONG SPACED DENSITY  
SLIMLINE UNIT**

COMPANY BRINCO COAL MINING CORP.  
WELL 92-014  
FIELD QUINSAM

PROVINCE/COUNTY BRITISH COLUMBIA  
COUNTRY/STATE CANADA

LOCATION CAMPBELL RIVER  
PRVNC/CO. BRITISH COLUMBIA  
FIELD QUINSAM  
WELL 92-014  
COMPANY BRINCO COAL MINING CORP.

LOCATION CAMPBELL RIVER  
LSD SRC TYP RCL  
OTHER SERVICES  
DIPMETER  
FT.

PERMANENT DATUM CL. ELEVATION 575.53 M  
LOC MEASURED FROM CL. ABOVE PERMANENT DATUM  
DRILLING MEASURED FROM CL. CL. ELEVATION 575.53 M

DATE 1-APR-92  
RUN NUMBER 110  
DEPTH-DRILLER 116.3 M  
DEPTH-LOGGER 116.0 M  
FIRST READING 0  
LAST READING 7.5 M  
CASING-DRILLER 7.0 M  
CASING-LOGGER 7.0 M  
BIT SIZE 5.5"

WELL FLUID TYPE WATER  
DENS. V/SIC. 1.1  
PH/FLUID LOSS: N/A  
SAMPLE SOURCE: N/A  
RM @ MEAS. TIME: N/A  
RM @ MEAS. TIME: N/A  
RM @ MEAS. TIME: N/A  
SOURCE: RM/78K  
RM @ BHJ: N/A  
TIME SINCE CIRC: N/A  
MAX REC TEMP: N/A  
EQUIPMENT/BASE: V253 REDETER  
RECORDED BY: JCV  
WITNESSED BY:

BOPEHHE RECORD  
RUN NUMBER 110  
FROM 99.4 M  
TO 116.3 M  
SIZE 7"  
WEIGHT 0  
FROM 0  
TO 7.5 M

EQUIPMENT DD1  
PUN 1 110  
RUN 2  
RUN 3  
RUN 4

**REMARKS**

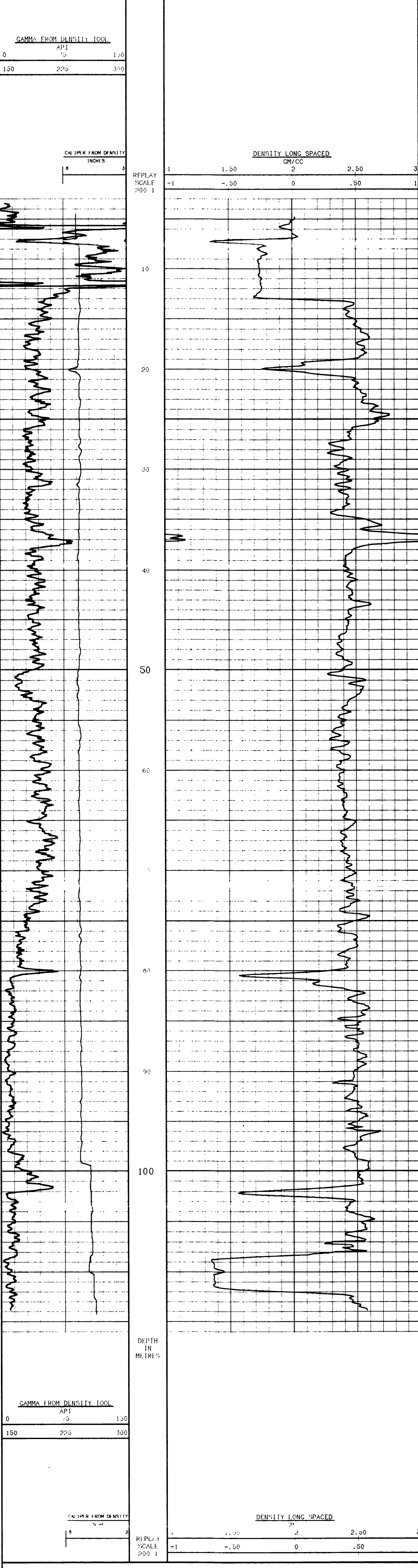
CAMMA RAY CALIPER LONG SPACED DENSITY SLIMLINE UNIT  
N 103 348.00 I 100 297.00

SYSTEM CONFIGURATION DATES LOGGED PROCESSED PLOTTED

ALL INTERPRETATIONS ARE OPINIONS BASED ON INFERENCE FROM ELECTRICAL OR OTHER MEASUREMENTS AND WE CANNOT AND DO NOT GUARANTEE THE ACCURACY OR CORRECTNESS OF ANY INTERPRETATIONS AND WE SHALL NOT BE LIABLE FOR ANY LOSSES, COSTS, DAMAGES OR EXPENSES INCURRED OR SUSTAINED BY ANYONE RESULTING FROM ANY INTERPRETATION MADE BY ANY OF OUR OFFICERS, AGENTS OR EMPLOYEES. THESE INTERPRETATIONS ARE ALSO SUBJECT TO OUR GENERAL TERMS AND CONDITIONS IN OUR PRICE SCHEDULE.

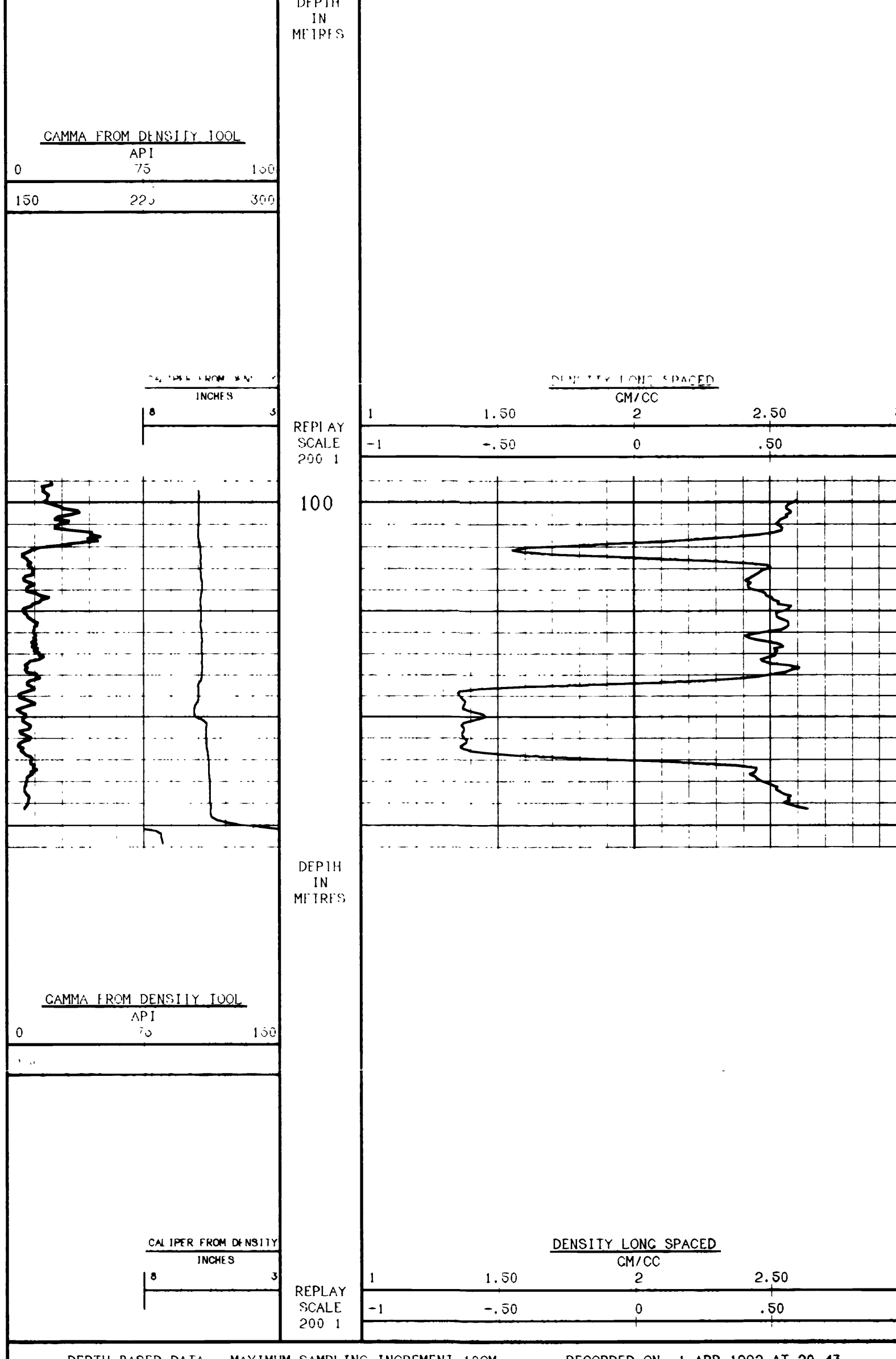
**MAIN LOG**

DEPTH BASED DATA - MAXIMUM SAMPLING INCREMENT 10CM. RECORDED ON 1-APR-1992 AT 20 52  
FILENAME MRGE014M.C1B RUN ID MAIN LOG PLOTTED ON 01-APR-1992 AT 21 38



**REPEAT SECTION**

DEPTH BASED DATA - MAXIMUM SAMPLING INCREMENT 10CM. RECORDED ON 1-APR-1992 AT 20 43  
FILENAME MRCE014R.C1B RUN ID REPEAT SECTION PLOTTED ON 01-APR-1992 AT 21 38



**REPEAT SECTION**

DEPTH BASED DATA - MAXIMUM SAMPLING INCREMENT 10CM. RECORDED ON 1-APR-1992 AT 20 43  
FILENAME MRCE014R.C1B RUN ID REPEAT SECTION PLOTTED ON 01-APR-1992 AT 21 38

COMPANY BRINCO COAL MINING CORP.  
WELL 92-014  
FIELD QUINSAM  
PROVINCE/COUNTY BRITISH COLUMBIA  
COUNTRY/STATE CANADA









**GAMMA RAY CALIPER**  
**LONG SPACED DENSITY**  
**SLIMLINE UNIT**

LOCATION	CAMPBELL RIVER	OTHER SERVICES:	
PRVNC/CO.	BRITISH COLUMBIA		
FIELD	QUINSAM		
WELL	92-019		
COMPANY	BRINCO COAL MINING CORP.		
PROVINCE/COUNTY	BRITISH COLUMBIA		
COUNTRY/STATE	CANADA		
DATE	2-APR-92		
PERMANENT DATUM	CL	ELEVATION	93.3 M
LOC MEASURED FROM	CL	ABOVE PERMANENT DATUM	93.3 M
DRILLING MEASURED FROM	CL	ELEVATIONS	93.3 M
DEPTH-DRILLER	93.3 M		
DEPTH-COOPER	93.0 M		
FIRST READING	0		
LAST READING	16.4 M		
CASING-DRILLER	16.4 M		
CASING-COOPER	16.4 M		
BIT SIZE	5.5"		
HOLE FLUID TYPE	WATER		
DENS. V/SIC.	1.1		
DRIVE/FLUID LOSS	N/A		
SAMPLE SOURCE			
RMT @ MASS TEMP			
RMC @ MASS TEMP			
SOURCE RMT/RMC			
RMT @ BIT			
TIME SINCE CHG			
MAX REC TEMP			
EQUIPMENT/BASE	W253 REIDLER		
RECORDED BY	JCV		
WITNESSED BY			

RUN NUMBER	BOREHOLE RECORD			CASING RECORD			
	BIT	FROM	TO	SIZE	WEIGHT	FROM	TO
ONE	9.5"	82.2 M	93.3 M	7"		0	16.4 M
EQUIPMENT							
DD1		RUN 1	RUN 2	RUN 3		RUN 4	

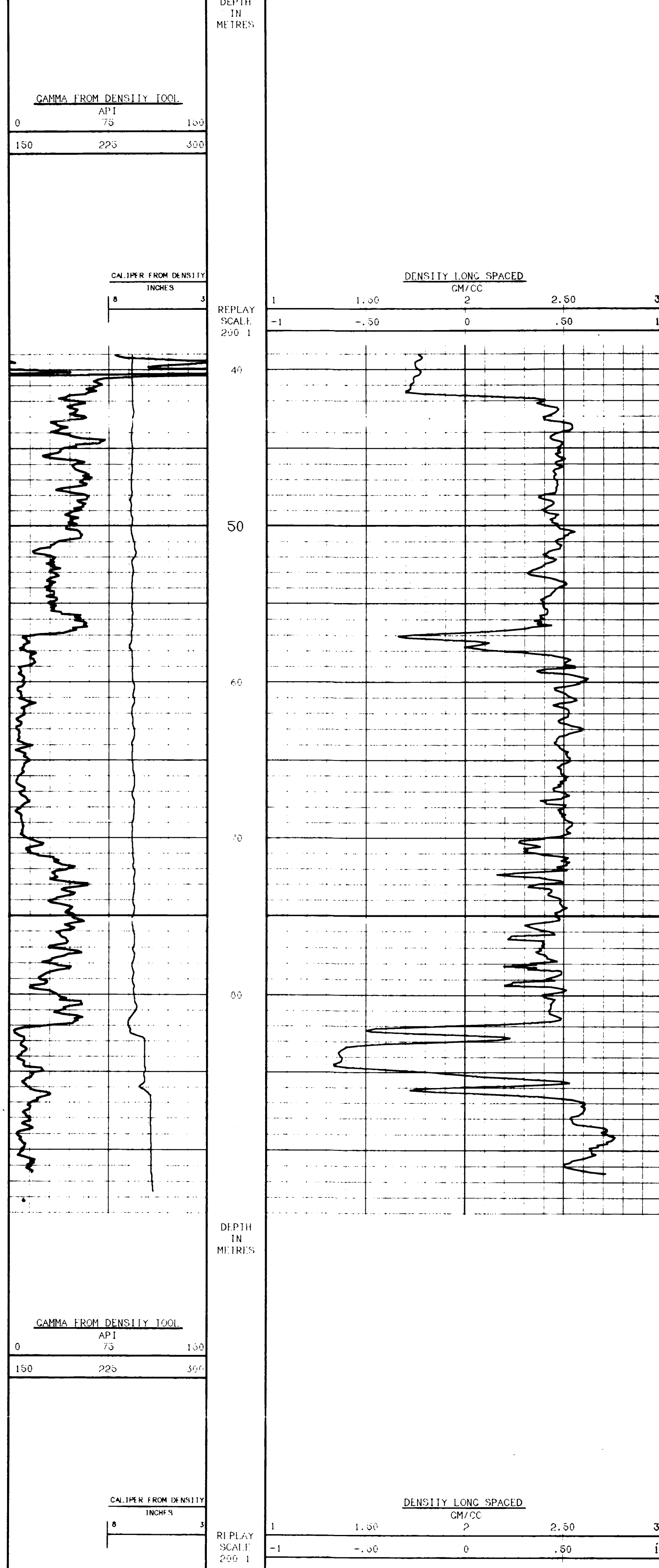
**REMARKS**  
 GAMMA RAY CALIPER LONG SPACED DENSITY SLIMLINE UNIT  
 N 102 591.90 E 100 032.094

SYSTEM CONFIGURATION DATES: LOGGED PROCESSED PLOTTED

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**MAIN LOG**

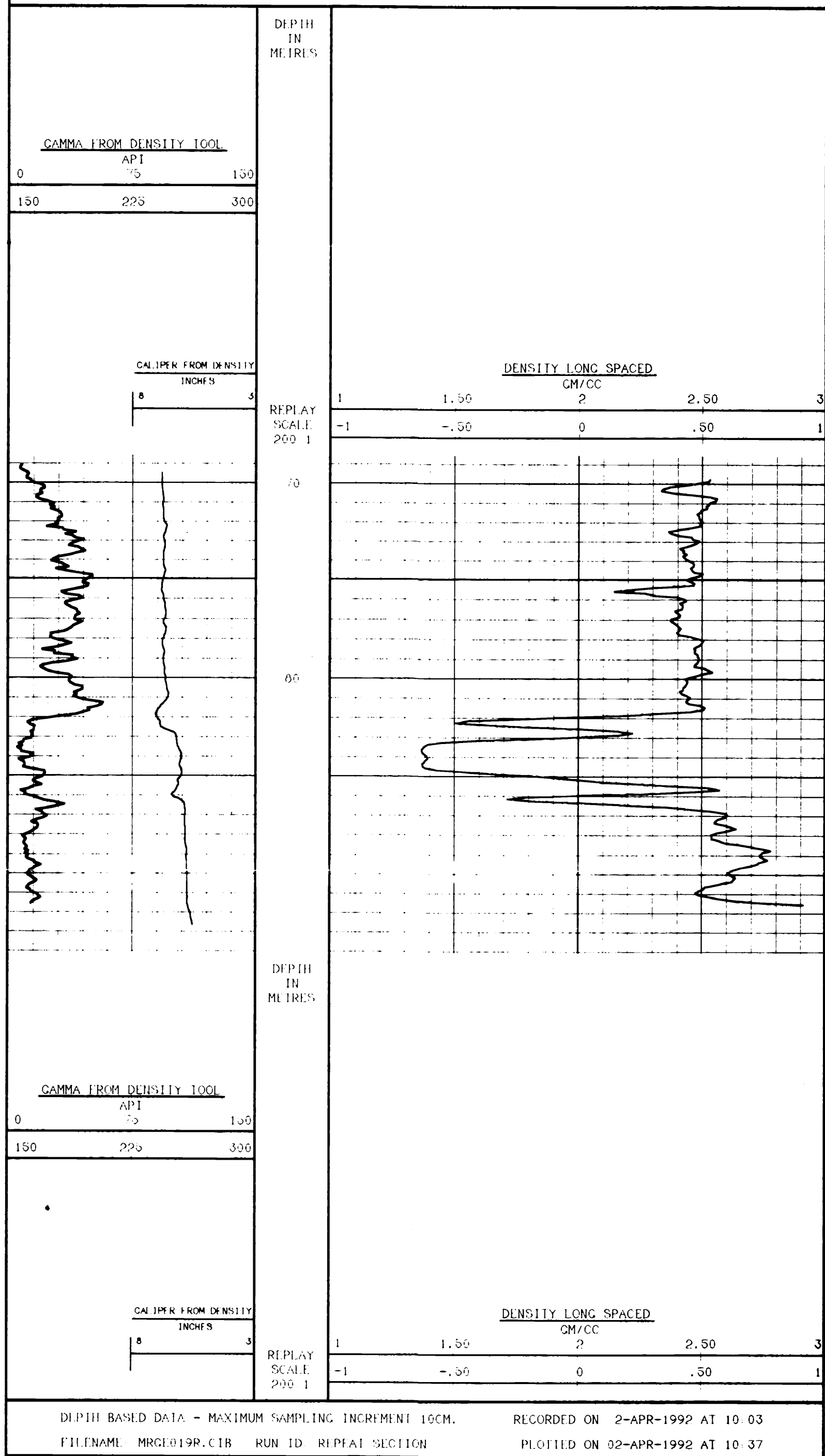
DEPTH BASED DATA - MAXIMUM SAMPLING INCREMENT 10CM. RECORDED ON 2-APR-1992 AT 10.05  
 FILENAME MRGE019M.C1B RUN ID MAIN LOG PLOTTED ON 02-APR-1992 AT 10.38



DEPTH BASED DATA - MAXIMUM SAMPLING INCREMENT 10CM. RECORDED ON 2-APR-1992 AT 10.05  
 FILENAME MRGE019M.C1B RUN ID MAIN LOG PLOTTED ON 02-APR-1992 AT 10.38

**REPEAT SECTION**

DEPTH BASED DATA - MAXIMUM SAMPLING INCREMENT 10CM. RECORDED ON 2-APR-1992 AT 10.03  
 FILENAME MRGE019R.C1B RUN ID REPEAT SECTION PLOTTED ON 02-APR-1992 AT 10.37



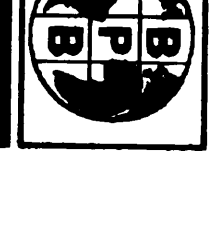
DEPTH BASED DATA - MAXIMUM SAMPLING INCREMENT 10CM. RECORDED ON 2-APR-1992 AT 10.03  
 FILENAME MRGE019R.C1B RUN ID REPEAT SECTION PLOTTED ON 02-APR-1992 AT 10.37

**REPEAT SECTION**

COMPANY	BRINCO COAL MINING CORP.
WELL	92-019
FIELD	QUINSAM
PROVINCE/COUNTY	BRITISH COLUMBIA
COUNTRY/STATE	CANADA







**GAMMA RAY CALIPER  
LONG SPACED DENSITY  
SLIMLINE UNIT**

LOCATION CAMPBELL RIVER PRVNC/CO. BRITISH COLUMBIA FIELD QUINSAM WELL 92-021 COMPANY BRINCO COAL MINING CORP. PROVINCE/COUNTY BRITISH COLUMBIA COUNTRY/STATE CANADA	PERMANENT DATUM CL. ELEVATION 319.995 M LOC MEASURED FROM CL. ABOVE PERMANENT DATUM DRILLING MEASURED FROM CL. ELEVATION 319.995 M DATE 2-APR-92 RUN NUMBER ONE DEPTH-DRILLER 141.5 M DEPTH-LOGGER 132.0 M FIRST READING 0 LAST READING 96.7 M COSTING-DRILLER 24.0 M COSTING-LOGGER 5.5 M BIT SIZE 5.5 HOLE FLUID TYPE WATER DENS. VISC. 1.1 PVT/LUID LOSS N/A SAMPLE SOURCE N/A RH @ MEAS TEMP RH @ MEAS TEMP SOURCE RH/IRAC RH @ BIT TIME SINCE CHRG MAX REC TEMP EQUIPMENT/RSHT V255 RIDER RECORDED BY JCV WITNESSED BY
---	---

RUN NUMBER	BIT	FROM	TO	SIZE	WEIGHT	FROM	TO
ONE	5.5"	121.3 M	141.5 M	7"		0	26.7 M

EQUIPMENT	RUN 1	RUN 2	RUN 3	RUN 4
DD1	112			

**REMARKS**

GAMMA RAY CALIPER LONG SPACED DENSITY SLIMLINE UNIT

N 193 043.976 E 190 492.670

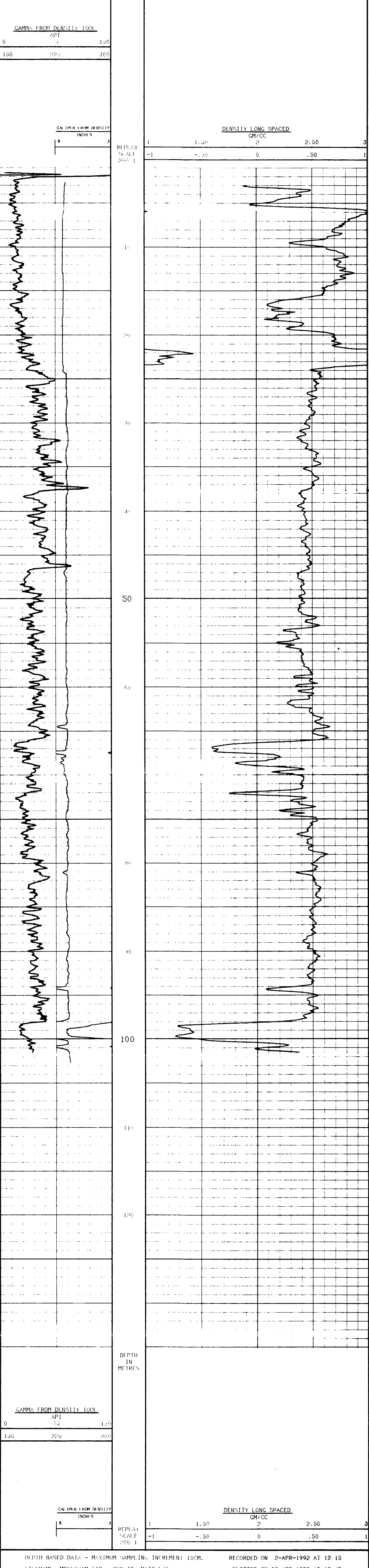
HOLE KEPT FALLING IN AT 96 METERS. DUE TO HOLE CONDITIONS NO REPEAT SECTION.

SYSTEM CONFIGURATION DATES: LOGGED PROCESSED PLOTTED

ALL INTERPRETATIONS ARE OPINIONS BASED ON INFERENCES FROM ELECTRICAL OR OTHER MEASUREMENTS AND WE CANNOT AND DO NOT GUARANTEE THE ACCURACY OR CORRECTNESS OF ANY INTERPRETATIONS. AND WE SHALL NOT EXCEPT IN THE CASE OF GROSS OR WILLFUL NEGLIGENCE ON OUR PART, BE LIABLE OR RESPONSIBLE FOR ANY LOSS, COSTS, DAMAGES OR EXPENSES INCURRED OR SUSTAINED BY ANYONE RESULTING FROM ANY INTERPRETATION MADE BY ANY OF OUR OFFICERS, AGENTS OR EMPLOYEES. THESE INTERPRETATIONS ARE ALSO SUBJECT TO OUR GENERAL TERMS AND CONDITIONS IN OUR PRICE SCHEDULE.

**MAIN LOG**

DEPTH BASED DATA - MAXIMUM SAMPLING INCREMENT 10CM. RECORDED ON 2-APR-1992 AT 12:15  
 FILENAME: MRCG021M.CIB RUN ID: MAIN LOG PLOTTED ON 02-APR-1992 AT 12:49



DEPTH BASED DATA - MAXIMUM SAMPLING INCREMENT 10CM. RECORDED ON 2-APR-1992 AT 12:15  
 FILENAME: MRCG021M.CIB RUN ID: MAIN LOG PLOTTED ON 02-APR-1992 AT 12:49

**MAIN LOG**

COMPANY	BRINCO COAL MINING CORP.
WELL	92-021
FIELD	QUINSAM
PROVINCE/COUNTY	BRITISH COLUMBIA
COUNTRY/STATE	CANADA





**GAMMA RAY CALIPER  
LONG SPACED DENSITY  
SLIMLINE UNIT**

LOCATION	CAMPBELL RIVER	OTHER SERVICES	
PRVNC/CO.	BRITISH COLUMBIA	LOCATION	CAMPBELL RIVER
FIELD	QUINSAM	SEC	
WELL	92-023	TWP	
PROVINCE/COUNTY	BRITISH COLUMBIA	R1	
COUNTRY/STATE	CANADA	OTHER SERVICES	F.F. DIPM:HR
COMPANY	BRINCO COAL MINING CORP.	PERMANENT DATUM	C.L.
		LOC MEASURED FROM	CL
		DRILLING MEASURED FROM	CL
		DATE	2-APR-92
		RUN NUMBER	ONE
		DEPTH-DRILLER	04.3 M
		DEPTH-COCKER	03.4 M
		FIRST READING	0
		LAST READING	5.3 M
		CASING-DRILLER	5.3 M
		CASING-COCKER	6.0 M
		BIT SIZE	5.3
		HOLE FLUID TYPE	WATER
		DENS. V/SIS.	1.1
		NU/FLUID LOSS	N/A
		SAMPLE SOURCE	N/A
		RHT @ MEAS TEMP	
		RHT @ MEAS TEMP	
		SOURCE RHT/RMC	
		RHT @ BIT	
		LINE SINK CLIK	
		POC REC TEMP	
		EQUIPMENT BASE	2235 REDFIRE
		RECORDED BY	JCV
		WITNESSED BY	

RUN NUMBER	BOREHOLE RECORD			CASING RECORD			
	BIT	FR-M	TO	SIZE	WEIGHT	FROM	TO
ONE	5.3"	06.6 M	04.3 M	7"		0	5.3 M

EQUIPMENT	RUN 1	RUN 2	RUN 3	RUN 4
DD1	116			

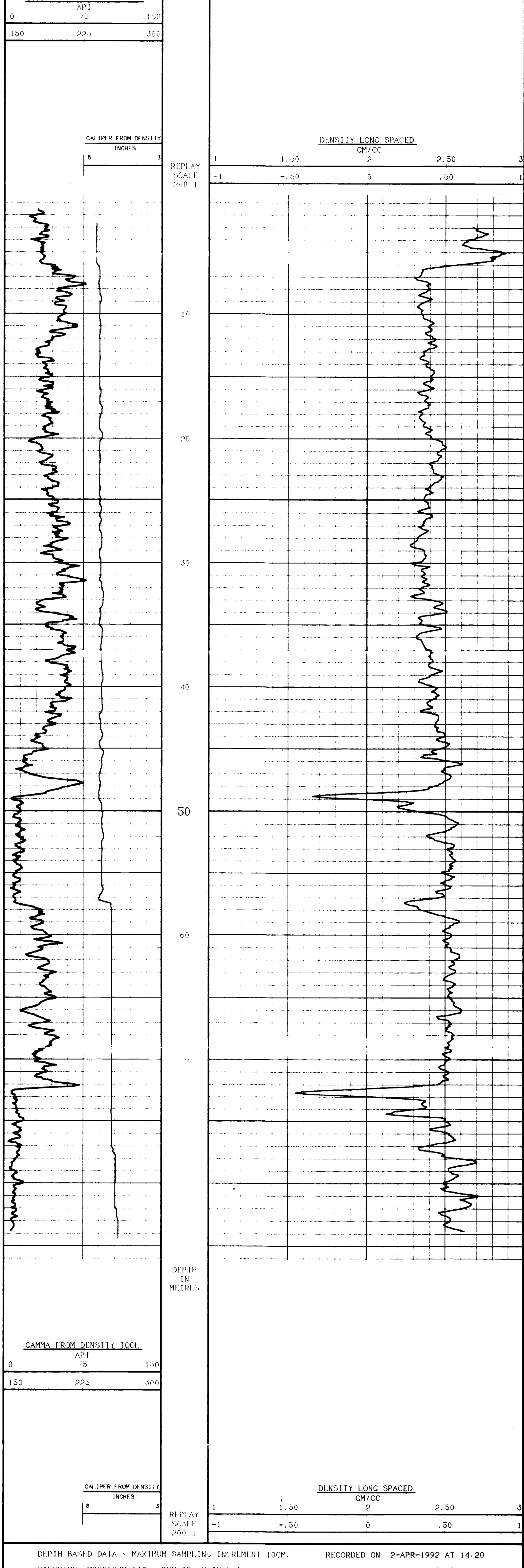
REMARKS  
GAMMA RAY CALIPER LONG SPACED DENSITY SLIMLINE UNIT  
N 103.293.046 E 99.990.040

SYSTEM CONFIGURATION DATES: LOGGED PROCESSED PLOTTED

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**MAIN LOG**

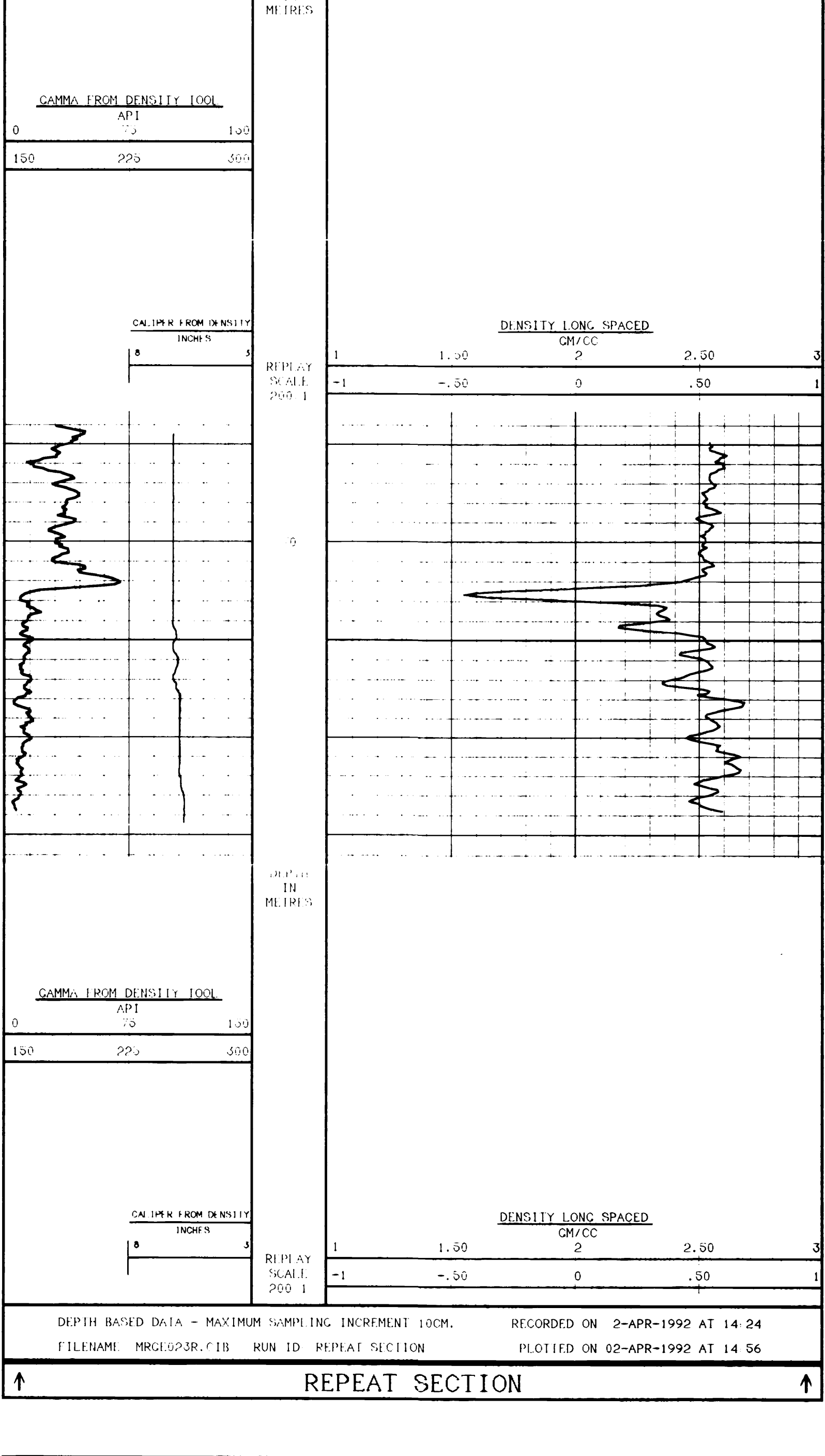
DEPTH BASED DATA - MAXIMUM SAMPLING INCREMENT 10CM. RECORDED ON 2-APR-1992 AT 14:20  
FILENAME MRCE023M.C1B RUN ID MAIN LOG PLOTTED ON 02-APR-1992 AT 14:57



DEPTH BASED DATA - MAXIMUM SAMPLING INCREMENT 10CM. RECORDED ON 2-APR-1992 AT 14:20  
FILENAME MRCE023M.C1B RUN ID MAIN LOG PLOTTED ON 02-APR-1992 AT 14:57

**REPEAT SECTION**

DEPTH BASED DATA - MAXIMUM SAMPLING INCREMENT 10CM. RECORDED ON 2-APR-1992 AT 14:24  
FILENAME MRCE023R.C1B RUN ID REPEAT SECTION PLOTTED ON 02-APR-1992 AT 14:56



DEPTH BASED DATA - MAXIMUM SAMPLING INCREMENT 10CM. RECORDED ON 2-APR-1992 AT 14:24  
FILENAME MRCE023R.C1B RUN ID REPEAT SECTION PLOTTED ON 02-APR-1992 AT 14:56

COMPANY	BRINCO COAL MINING CORP.
WELL	92-023
FIELD	QUINSAM
PROVINCE/COUNTY	BRITISH COLUMBIA
COUNTRY/STATE	CANADA





**GAMMA RAY CALIPER  
LONG SPACED DENSITY  
SLIMLINE UNIT**

LOCATION	CAMPBELL RIVER	OTHER SERVICES	
PRVNC/CO.	BRITISH COLUMBIA	WELL	92-024
FIELD	QUINSAM	PROVINCE/COUNTY	BRITISH COLUMBIA
WELL	92-024	COUNTRY/STATE	CANADA
COMPANY	BRINCO COAL MINING CORP.	LOCATION	CAMPBELL RIVER
DATE	2-APR-92	FIELD	QUINSAM
PERMANENT DATUM	CL	OTHER SERVICES	HE DIPMETER
LOG MEASURED FROM	CL	ELEVATION 509.210 M	
DRILLING MEASURED FROM	CL	ABOUT PERMANENT DATUM	
DATE	2-APR-92	CR	CL
RUN NUMBER	115	ELEVATION	509.210 M
DEPTH-OCCUR	117.6 M		
FIRST READING	117.6 M		
LAST READING	0 M		
CASING-OCCUR	6.3 M		
BIT SIZE	5.5"		
HOLE FLUID TYPE	WATER		
DENS./VISC.	1.1		
PIVOT/UID LOSS	N/A		
SAMPLE SOURCE	N/A		
RHF @ MASS TEMP			
RHF @ MASS TEMP			
SCORRE			
RH @ BHT			
TIME SINCE GRPC			
MAX REC. TEMP			
FOOTPRINT/INCH	0.253" REORDER		
RECORDED BY	JCS		
TYPE/INSTRUMENT			
DATE			

BOREHOLE RECORD		CASING RECORD					
RUN NUMBER	BIT	FROM	TO	SIZE	WEIGHT	FROM	TO
115	5.5"	99.2 M	116.6 M			0	6.3 M

EQUIPMENT	RUN 1	RUN 2	RUN 3	RUN 4
DD1	115			

**REMARKS**

GAMMA RAY CALIPER      LONG SPACED DENSITY      SLIMLINE UNIT

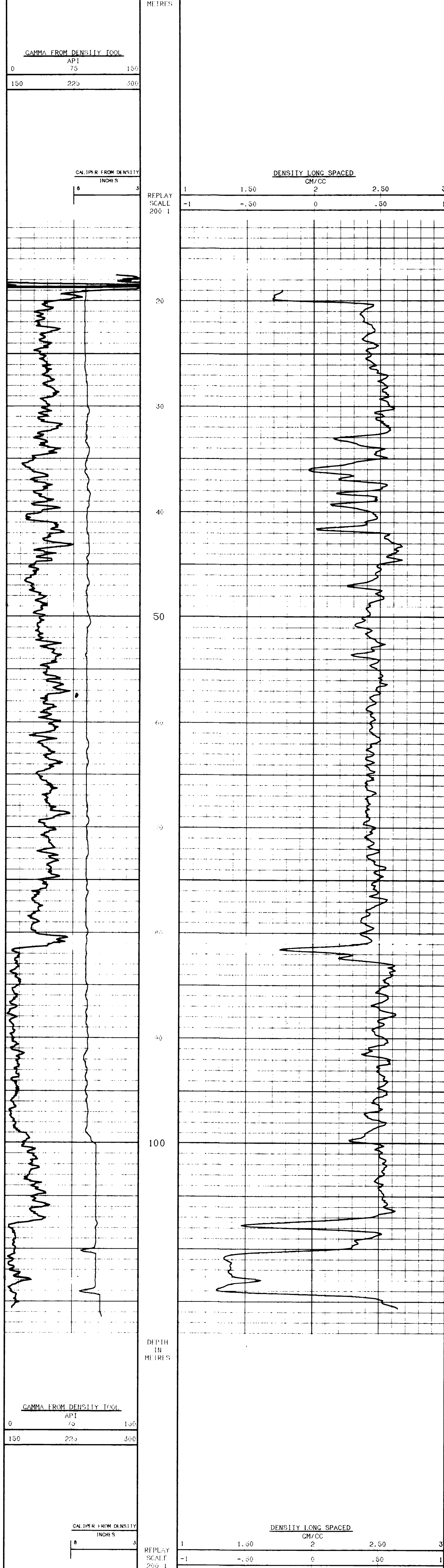
N 102 503.200      E 100 346.100

SYSTEM CONFIGURATION DATES      LOGGED      PROCESSED      PLOTTED

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**MAIN LOG**

DEPTH BASED DATA - MAXIMUM SAMPLING INCREMENT 10CM.      RECORDED ON 2-APR-1992 AT 15:10  
 FILENAME MRLE024M.C1B      RUN ID MAIN LOG      PLOTTED ON 02-APR-1992 AT 15:35

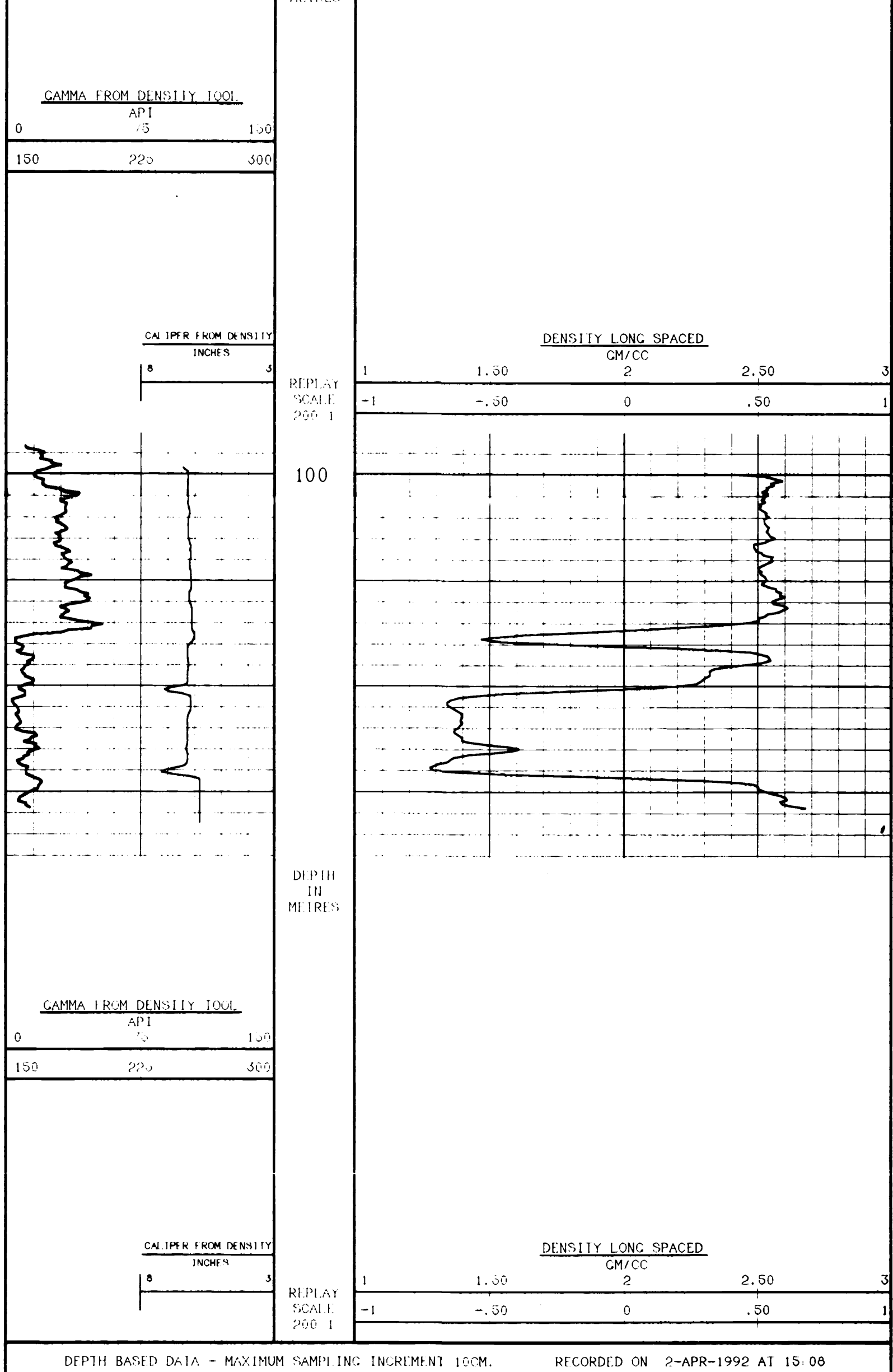


DEPTH BASED DATA - MAXIMUM SAMPLING INCREMENT 10CM.      RECORDED ON 2-APR-1992 AT 15:10  
 FILENAME MRCE024M.C1B      RUN ID MAIN LOG      PLOTTED ON 02-APR-1992 AT 15:35

**MAIN LOG**

**REPEAT SECTION**

DEPTH BASED DATA - MAXIMUM SAMPLING INCREMENT 10CM.      RECORDED ON 2-APR-1992 AT 15:08  
 FILENAME MRCE024M.C1B      RUN ID REPEAT SECTION      PLOTTED ON 02-APR-1992 AT 15:35



DEPTH BASED DATA - MAXIMUM SAMPLING INCREMENT 10CM.      RECORDED ON 2-APR-1992 AT 15:08  
 FILENAME MRCE024M.C1B      RUN ID REPEAT SECTION      PLOTTED ON 02-APR-1992 AT 15:35

**REPEAT SECTION**

COMPANY	BRINCO COAL MINING CORP.
WELL	92-024
FIELD	QUINSAM
PROVINCE/COUNTY	BRITISH COLUMBIA
COUNTRY/STATE	CANADA



2109 - STREET NW  
CALGARY, ALBERTA  
(403) 278-8889

**GAMMA RAY  
CALIPER**      **RESISTANCE  
DENSITY**

File No. \_\_\_\_\_  
 COMPANY BALUDA COAL MINING CORP  
 WELL 92-026 Main N 101, 076, 990  
 LOCATION RT 75 E 109 Stn 595  
 TWP \_\_\_\_\_  
 RGE \_\_\_\_\_  
 W \_\_\_\_\_ M \_\_\_\_\_

Other Services  
 LSD \_\_\_\_\_ SEC \_\_\_\_\_ TWP \_\_\_\_\_ RGE \_\_\_\_\_ W \_\_\_\_\_

Permanent Datum \_\_\_\_\_ Elevation \_\_\_\_\_  
 Log Measured From G.L. Above Perm. Datum \_\_\_\_\_  
 Well Depth Measured From \_\_\_\_\_ G.L. 276.033

Run No.	1	ESTIMATED
Date	1 OCT 92	
First Reading	58	56
Last Reading	0	49
Footage Logged	58	7
Depth Reached	58	
Depth Chisel	58	
Cleaning Electrode	177	
Cleaning Chisel		
Fluid Type	WATER	
Liquid Level	18.7	
Min. Diameter	1 1/4 IN	
Operating Time		
Truck No.	574	
Recorded By		Witnessed By <u>LEHTIENEN</u>

**EQUIPMENT DATA**

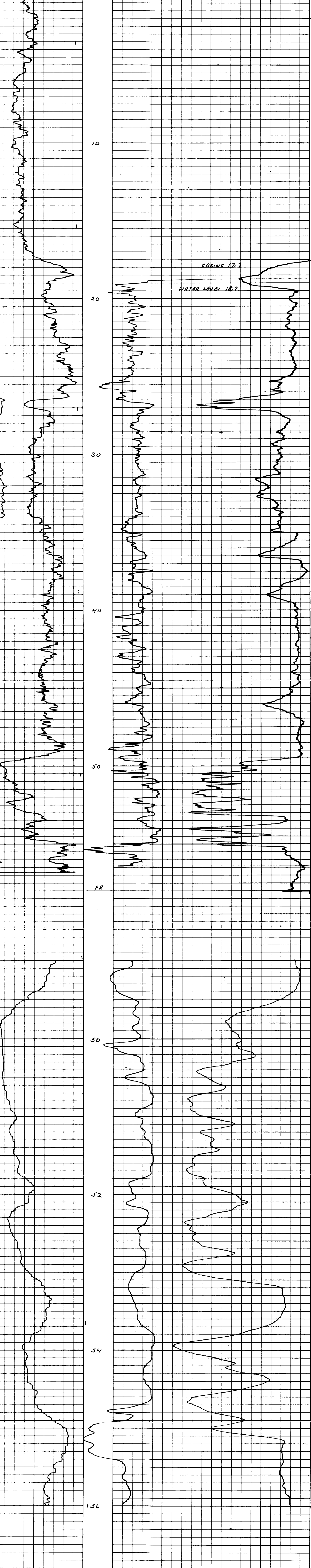
	GAMMA RAY	RESISTANCE	DENSITY	CALIPER
Run No.	1	1	1	1
Tool Model No.	L-103	L-103	L-103	L103
Diameter	32 mm	32 mm	32 mm	32 mm
Type	SCINT	E	FOCUSED	EM
Spacing				
Length	75 cm	5 cm	5 cm	
Horiz. Scale		25 R/Div		
Source			HOVP	
Serial No.			960	
Isotope			AM241	
Strength			92 GBq	

**LOGGING DATA**

RUN NO.	GENERAL			GAMMA-RAY				DENSITY			CPS/DIV.
	DEPTHS	FROM	TO	T.C. SEC.	SENS. SETTINGS	ZERO DIV. L. OR R.	API UNITS PER LOG DIV.	T.C. SEC.	SENS. SETTINGS	ZERO DIV. L. OR R.	
1	0	58	4	4	50	0	8 API	2	1K	2L	85 cps

Remarks: General

Inst. Truck No. 1  
 Location ARMOREL RIVER





2108 - 1 STREET N.W.  
CALGARY, ALBERTA  
(403) 278-6488

**GAMMA RAY  
CALIPER**

**RESISTANCE  
DENSITY**

File No. \_\_\_\_\_

SEC. \_\_\_\_\_

WELL \_\_\_\_\_

TYPE \_\_\_\_\_

LOCATION \_\_\_\_\_

ROE \_\_\_\_\_

W. \_\_\_\_\_ M.

PROVINCE \_\_\_\_\_

FIELD \_\_\_\_\_

COMPANY ARMADA COAL LIQUIDS 5000

WELL 22-0227/1-0 N 100 766-3-66

LOCATION R.T. 7-5 E 100 793-784

FIELD 9-11-8-21

PROVINCE B.C.

SEC. \_\_\_\_\_

W. \_\_\_\_\_

TYPE \_\_\_\_\_

ROE \_\_\_\_\_

W. \_\_\_\_\_

GROUND LEVEL \_\_\_\_\_

Perm. Datum \_\_\_\_\_

Log Measured From \_\_\_\_\_

Well Depth Measured From \_\_\_\_\_

API \_\_\_\_\_

EW. NB. \_\_\_\_\_

CSG G-20420

Run No. \_\_\_\_\_

Date \_\_\_\_\_

First Reading \_\_\_\_\_

Last Reading \_\_\_\_\_

Forecasting Logper \_\_\_\_\_

Depth Reached \_\_\_\_\_

Depth Dialer \_\_\_\_\_

Casing Electrod \_\_\_\_\_

Casing Dialer \_\_\_\_\_

Fluid Type \_\_\_\_\_

Liquid Level \_\_\_\_\_

Min. Diameter \_\_\_\_\_

Opening Time \_\_\_\_\_

Truck No. \_\_\_\_\_

Recorded By \_\_\_\_\_

Witnessed By LEHJUBEN

**EQUIPMENT DATA**

	GAMMA RAY	RESISTANCE	DENSITY	CALIPER
Run No.	1	1	1	1
Tool Model No.	L-103	L-103	L-103	L-103
Diameter	32 mm	32 mm	32 mm	32 mm
Type	SCINT	E	FOCUSED	EM
Spacing				
Length	75 cm	5 cm	5 cm	
Horiz. Scale		25.4 / DIV		
Source			HOVP	
Serial No.			980	
Isotope			AM241	
Strength			.92 GBq	

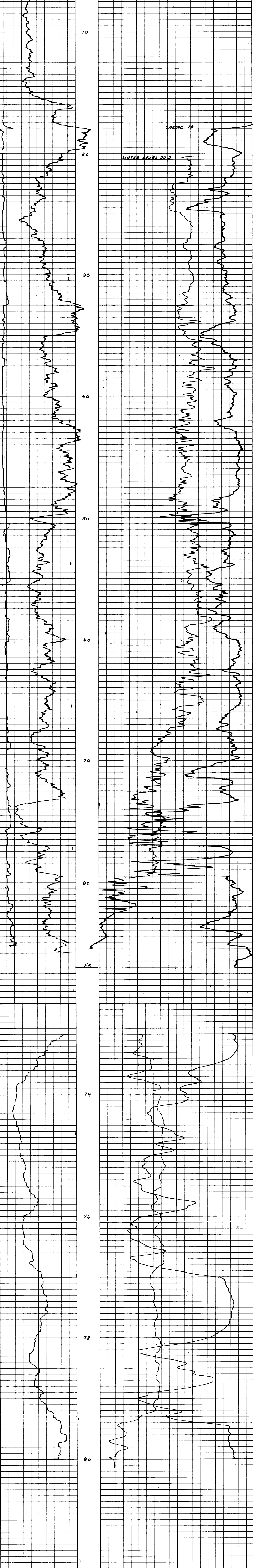
**LOGGING DATA**

RUN NO.	GENERAL		SPEED MIN.	T.C. SEC.	GAMMA-RAY			DENSITY			
	DEPTHS FROM	TO			SENS. SETTING	ZERO DIV. L. OR R.	API UNITS PER LOG DIV.	T.C. SEC.	SENS. SETTING	ZERO DIV. L. OR R.	CPS/DIV.
1	0	87	4	4	50	0	0.001	2	1K	0.6	25 CPS

Remarks \_\_\_\_\_

Inst. Truck No. \_\_\_\_\_

Location COMPASS RIVER



2109 - 1 STREET N.W.  
CALGARY, ALBERTA  
(403) 278-4488

**GAMMA RAY CALIPER RESISTANCE DENSITY**

COMPANY BARBER COAL THERMAL CORP.  
WELL 92-028 Phase N 109, 823, 760  
LOCATION PI 75 E 100, 400, 534  
FIELD QUINSETH  
PROVINCE ALBERTA  
W.        M.       

PERMANENT DIALUM GROUND LEVEL Elev.         
LOG MEASURED FROM        ABOVE PERM. DIALUM  
WELL DEPTH MEASURED FROM       

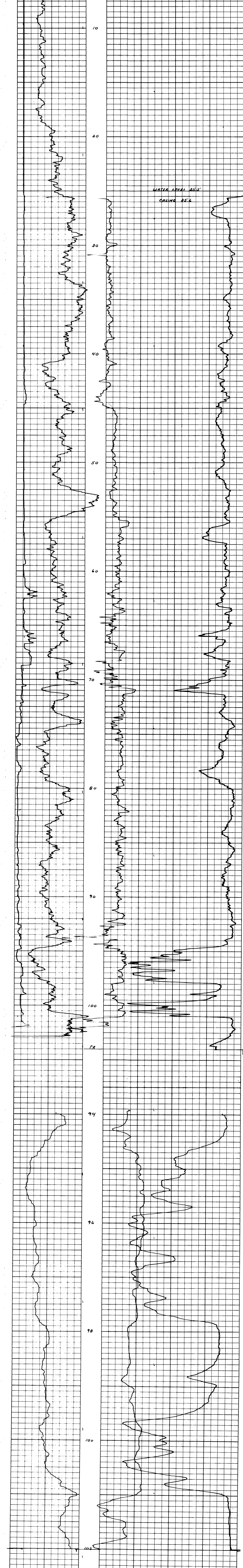
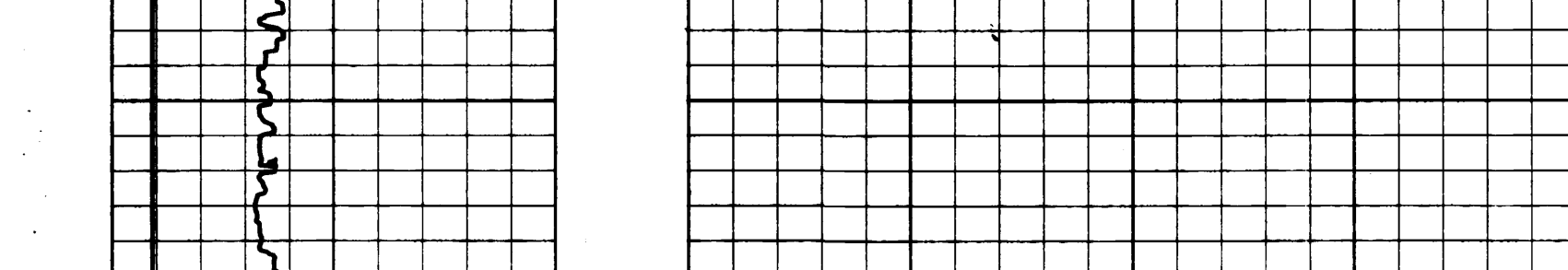
Run No. 1 ESTIMATED  
Date 1 OCT 82  
First Reading 10:24 10:2  
Last Reading 0 72

Depth Reached 102  
Depth Driller 102  
Casing Electronic 25.4  
Casing Driller         
Fluid Type LATER  
Liquid Level 25.6  
Mm. Diameter 1/4 IN  
Operating Time 1/4 HR  
Track No.         
Recorded By         
Witnessed By LENTIEN

EQUIPMENT DATA			
GAMMA RAY	RESISTANCE	DENSITY	CALIPER
Run No. 1	1	1	1
Tool Model No. L-103	L-103	L-103	L-103
Diameter 32 mm	32 mm	32 mm	32 mm
Type SCINT	E	FOCUSED	EM
Spacing 75 cm	5 cm	5 cm	
Horiz. Scale	<u>25.4 / DIV</u>		
Source		HOVP	
Serial No.		880	
Isotope		AM241	
Strength		82 GBq	

LOGGING DATA											
GENERAL				GAMMA-RAY				DENSITY			
RUN NO.	DEPTHS FROM	DEPTHS TO	SPEED MIN.	T.C. SEC.	SENS SETTINGS	ZERO DIV. L OR R.	API UNITS PER LOG DIV.	T.C. SEC.	SENS SETTINGS	ZERO DIV. L OR R.	CPS/DIV.
1	0	104	4	4	50	0	8 API	2	1K	26	83 CPS

Remarks        General         
Inst. Truck No.         
Location SARABU RIVER





**ELECTRICAL LOG**

2109 - 1 STREET N.W.  
CALGARY, ALBERTA  
(403) 279-6666

**GAMMA RAY CALIPER RESISTANCE DENSITY**

COMPANY: BARBER CONSTRUCTION CORP.  
WELL: 92-029 M.A. N 100, 803, 583  
LOCATION: Rt 75 E 100, 354, 201  
FIELD: QUILKICK  
PROVINCE: ALB.  
LSD: \_\_\_\_\_ SEC: \_\_\_\_\_ TWP: \_\_\_\_\_ RBE: \_\_\_\_\_ W: \_\_\_\_\_

Permanent Datum: \_\_\_\_\_ GROUND LEVEL: \_\_\_\_\_ Elev. RB: \_\_\_\_\_  
Log Measured From: G.F. Above Perm. Datum: \_\_\_\_\_ CSG: \_\_\_\_\_  
Well Depth Measured From: \_\_\_\_\_ G.L. 271.065

Run No. 1 Date 1 / 02 / 92 ESTIMATED

First Reading 102.5 Last Reading 104

Footage Logged \_\_\_\_\_ Depth Reached 102.5  
Depth Drawn 102.5  
Casing Electrod. 11.2  
Casing Drive LAZEE  
Fluid Type \_\_\_\_\_  
Liquid Level 87.5  
Min. Diameter 11.2  
Operating Time \_\_\_\_\_  
Tool No. \_\_\_\_\_  
Recorded By S/L Witnessed By LEITZNER

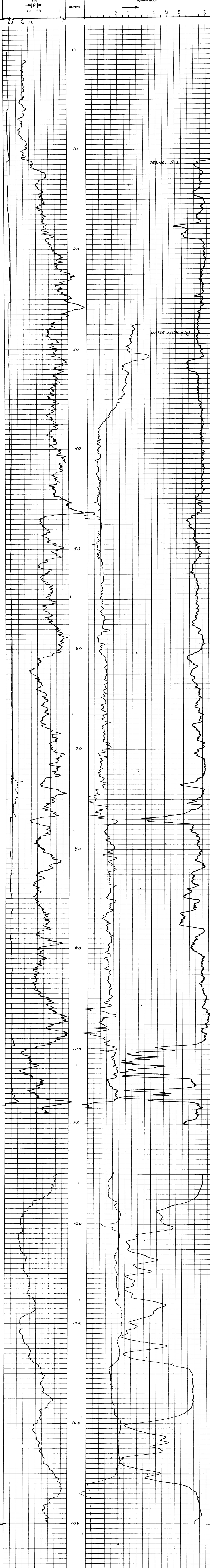
**EQUIPMENT DATA**

GAMMA RAY	RESISTANCE	DENSITY	CALIPER
Run No. 1	1	1	1
Tool Model No. L-103	L-103	L-103	L-103
Diameter 32 mm	32 mm	32 mm	32 mm
Type SCINT	E	FOCUSED	EM
Spacing 75 cm	5 cm	5 cm	
Horiz. Scale		HOVP	
Source		980	
Serial No.		AM241	
Isotope		62 GBq	
Strength			

**LOGGING DATA**

GENERAL				GAMMA-RAY				DENSITY			
RUN NO.	DEPTHS		SPEED MIN.	T.C. SEC.	SENS. SETTINGS	ZERO DIV. L OR R	API UNITS PER LOG DIV.	T.C. SEC.	SENS. SETTINGS	ZERO DIV. L OR R	CPS/DIV.
	FROM	TO									
1	0	102.5	4	4	40	0	8 API	2	1K	2.6	85 CPS

Remarks \_\_\_\_\_ Inst. Truck No. \_\_\_\_\_  
Location CANADIAN RIVER





2109 - 1 STREET NW  
CALGARY, ALBERTA  
(403) 278-8488

**GAMMA RAY  
CALIPER**

**RESISTANCE  
DENSITY**

COMPANY *QUANTA OIL SERVICES*  
WELL *22-030 M208 N 100 688-103*  
TWP *27 15 E 40 272-479*  
RGE *100*  
M *100*

FIELD *QUANTAS*  
PROVINCE *ALBERTA*

PERMANENT DULUM: GROUND LEVEL, ELEV. 48  
LOG MEASURED FROM: 6.7, ABOVE PERM. DULUM  
WELL DEPTH MEASURED FROM: 0.1, 208.734

DATE: 1 OCT 92  
EXAMINED: [ ]  
FIRST READING: 110, 105  
LAST READING: 0, 99

FOOTAGE LOGGED: 112, 6  
DEPTH REACHED: 110, -  
DEPTH DIVER: 6.6  
Casing Diameter: 6.6  
Fluid Type: 6/8722  
Liquid Level: 28.2  
Min. Diameter: 1/4" CI  
Operating Time: 1/15/92  
Tool No.: 5171  
Witnessed By: J. BATHMAN

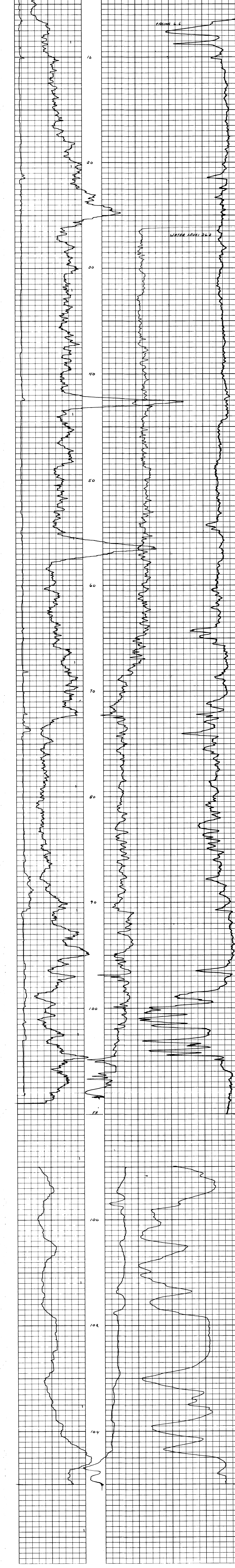
**EQUIPMENT DATA**

Run No.	GAMMA RAY	RESISTANCE	DENSITY	CALIPER
1	1	1	1	1
Tool Model No.	L-103	L-103	L-103	L103
Diameter	32 mm	32 mm	32 mm	32 mm
Type	SCINT	E	FOCUSED	EM
Spacing				
Length	75 cm	5 cm	5 cm	
Horiz. Scale		3.5 R/IN		
Source			HOVP	
Serial No.			980	
Isotope			AM241	
Strength			.92 GBq	

**LOGGING DATA**

RUN NO.	GENERAL			T.C. SEC.	GAMMA RAY			DENSITY			
	DEPTHS FROM	TO	SPEED MIN.		SENS. SETTINGS	ZERO DIV. L OR R.	API UNITS PER LOG DIV.	T.C. SEC.	SENS. SETTINGS	ZERO DIV. L OR R.	CPS/OV
1	0	110	4	4	50	0	API	2	1K	3L	85 CPS

Remarks: [ ]  
Inst. Truck No.: [ ]  
Location: *CROWFOOT RIVER*



**ELECTROLOG SERVICES INC.**  
 2109 - 1 STREET N.W.  
 CALGARY, ALBERTA  
 (403) 279-6650

**GAMMA RAY CALIPER RESISTANCE DENSITY**

COMPANY BELLISER COBL LIMITED 6082  
 WELL 92-0318 77th N 100 31st 070  
 TWP P17 75 E 100 08S 16S  
 RGE \_\_\_\_\_  
 W \_\_\_\_\_ M \_\_\_\_\_

FIELD QUAISASBT  
 PROVINCE BC

LSO \_\_\_\_\_ SEC \_\_\_\_\_ TWP \_\_\_\_\_ RGE \_\_\_\_\_ W \_\_\_\_\_

Other Services \_\_\_\_\_

Permanent Datum \_\_\_\_\_ GROUND LEVEL \_\_\_\_\_ Elev. \_\_\_\_\_  
 Log Measured From \_\_\_\_\_ Above Perm Datum \_\_\_\_\_  
 Well Depth Measured From \_\_\_\_\_ G.L. 300.224

Run No. 1  
 Date 2 OCT 92

First Reading \_\_\_\_\_  
 Last Reading 0

Footage Logged \_\_\_\_\_  
 Depth Reached 88  
 Depth Driller BB  
 Casing Electrod \_\_\_\_\_  
 Casing Driller J  
 Fluid Type WATER  
 Liquid Level 31.6  
 Min. Diameter 1/4" 48  
 Operating Time \_\_\_\_\_  
 Truck No. \_\_\_\_\_  
 Recorded By SLA Witnessed By LEITH BERN

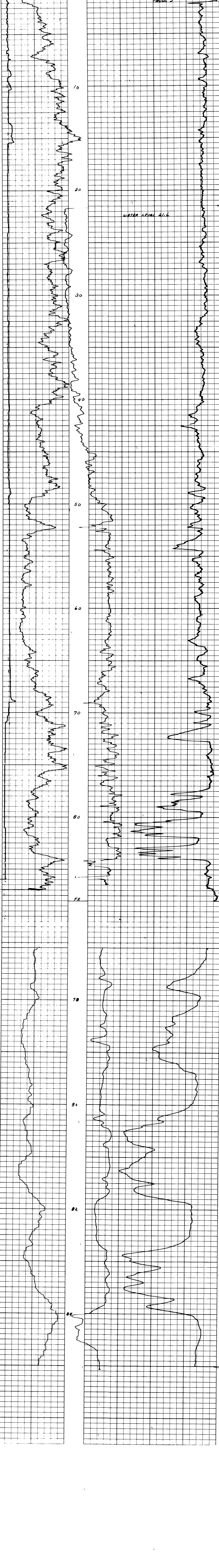
**EQUIPMENT DATA**

Run No.	GAMMA RAY	RESISTANCE	DENSITY	CALIPER
1	1	1	1	1
Tool Model No.	L-103	L-103	L-103	L-103
Diameter	32 mm	32 mm	32 mm	32 mm
Type	SCINT	E	FOCUSED	EM
Spacing				
Length	75 cm	5 cm	5 cm	
Horiz. Scale		<u>25.6 / DIV</u>		
Source			HOVP	
Serial No.			980	
Isotope			AM241	
Strength			.92 GBq	

**LOGGING DATA**

RUN NO.	GENERAL DEPTHS		SPEED MIN.	T.C. SEC.	GAMMA-RAY			DENSITY			
	FROM	TO			SENS SETTINGS	ZERO DIV. L OR R	API UNITS PER LOG DIV	T.C. SEC.	SENS SETTINGS	ZERO DIV. L OR R	CPS/DIV.
1	0	88	4	4	50	0	BBB	2	1K	2L	85 CPS

Remarks \_\_\_\_\_ Inst. Truck No. 1  
 Location CAMPBELL RIVER





**GAMMA RAY RESISTANCE CALIPER DENSITY**

File No. \_\_\_\_\_  
 COMPANY BRUNCO COAL MINING CORP  
 WELL 92-032 Mine N 100, 228-279  
 LOCATION PIT 75 E 100, 040.189  
 FIELD QUILASNOI  
 PROVINCE ALTA.  
 LSD SEC TWP RGE W \_\_\_\_\_

Permanent Datum \_\_\_\_\_ Elev. MB \_\_\_\_\_  
 Log Measured From G.L. Above Perm. Datum \_\_\_\_\_  
 Well Depth Measured From \_\_\_\_\_ Elev. MB \_\_\_\_\_  
 \_\_\_\_\_ Elev. MB \_\_\_\_\_  
 \_\_\_\_\_ Elev. MB \_\_\_\_\_  
 \_\_\_\_\_ Elev. MB \_\_\_\_\_

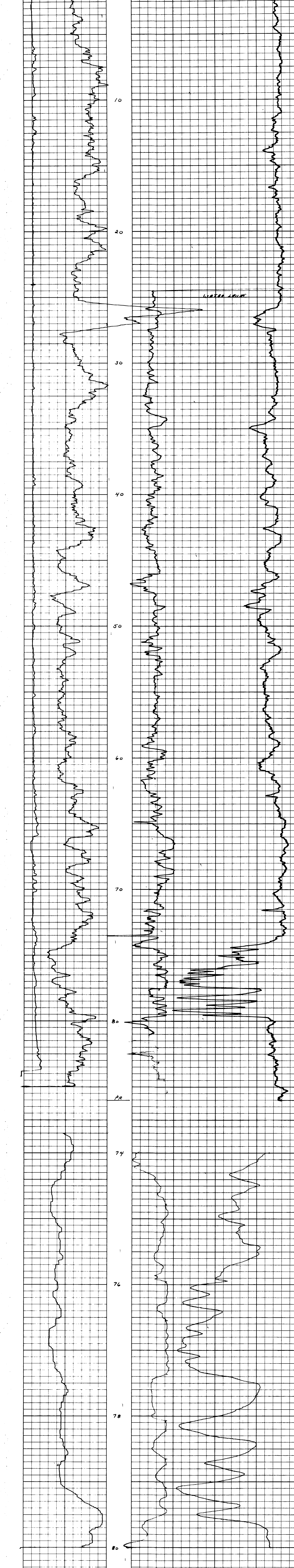
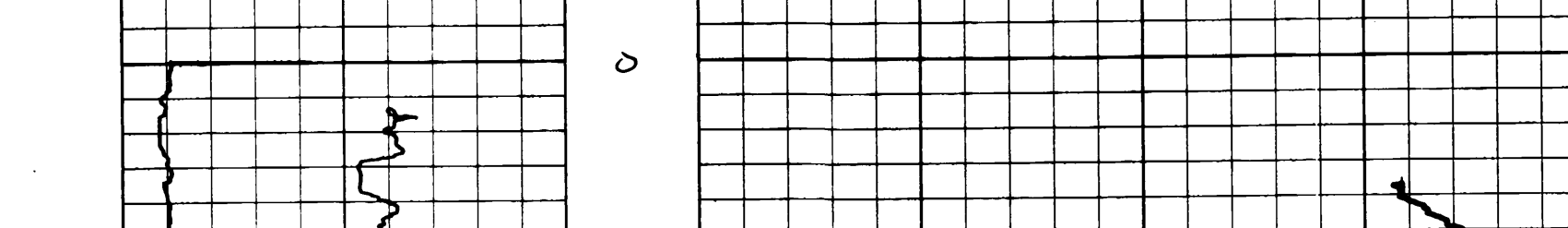
Run No. 1 **ETERNED**  
 Date 2 OCT 92  
 First Reading \_\_\_\_\_  
 Last Reading \_\_\_\_\_

Footage Logged \_\_\_\_\_  
 Depth Reached \_\_\_\_\_  
 Depth Driller \_\_\_\_\_  
 Casing Electrode \_\_\_\_\_  
 Casing Driller \_\_\_\_\_  
 Fluid Type WATER  
 Liquid Level 24.6  
 Min. Diameter 1 1/4  
 Operating Time \_\_\_\_\_  
 Truck No. \_\_\_\_\_  
 Recorder No. \_\_\_\_\_  
 Recorded By SJM Witnessed By SCHEINER

EQUIPMENT DATA			
	GAMMA RAY	RESISTANCE	DENSITY
Run No.	1	1	1
Tool Model No.	L-103	L-103	L-103
Diameter	32 mm	32 mm	32 mm
Type	SCINT	E	FOCUSED
Spacing			
Length	75 cm	5 cm	5 cm
Horiz. Scale		<u>25 G/DIV</u>	
Source			HOVP
Serial No.			980
Isotope			AM241
Strength			92 GBq

LOGGING DATA											
RUN NO.	GENERAL DEPTHS		SPEED MIN	GAMMA-RAY				DENSITY			
	FROM	TO		T.C. SEC.	SENS SETTINGS	ZERO DIV. L. OR R.	API UNITS PER LOG DIV.	T.C. SEC.	SENS SETTINGS	ZERO DIV. L. OR R.	CPS/DIV
1	0	86	4	4	50	0	0.00	2	1K	26	85 CPS

Remarks \_\_\_\_\_ Inst. Truck No. 1  
 Location CAMPBELL RIVER





**ELECTROLOG SERVICES INC.**  
 2108 - 1 STREET N.W.  
 CALGARY, ALBERTA  
 (403) 276-6459

**GAMMA RAY RESISTANCE  
 CALIPER DENSITY**

File No. \_\_\_\_\_  
 COMPANY **BALDWIN COAL TRADING CORP**  
 WELL **92-032 Mine N 100 248-279**  
 TWP **RT 75 E 100 090-199**  
 RGE \_\_\_\_\_  
 W \_\_\_\_\_ M \_\_\_\_\_

PROVINCE **BC**  
 LOCATION \_\_\_\_\_  
 FIELD **QUILASNOTI**  
 LSD \_\_\_\_\_ SEC \_\_\_\_\_ TWP \_\_\_\_\_ RGE \_\_\_\_\_ W \_\_\_\_\_

Permanent Datum **GROUND LEVEL** Elev \_\_\_\_\_  
 Log Measured from **C-7** Above Perm Datum  
 Well Depth Measured from \_\_\_\_\_ Elev NB \_\_\_\_\_  
 \_\_\_\_\_ CSG **GL 305 339**  
 \_\_\_\_\_ G.L. \_\_\_\_\_

Run No. \_\_\_\_\_ Date **6 OCT 92**  
 First Reading \_\_\_\_\_ Last Reading **132**  
 Footage Logged \_\_\_\_\_ Depth Reached **132**  
 \_\_\_\_\_ Depth Driller **132**  
 \_\_\_\_\_ Casing Driller \_\_\_\_\_  
 \_\_\_\_\_ Fluid Type **WATER**  
 \_\_\_\_\_ Liquid Level \_\_\_\_\_  
 \_\_\_\_\_ Min. Diameter **1/4"**  
 \_\_\_\_\_ Operating Time \_\_\_\_\_  
 \_\_\_\_\_ Truck No. **1**

Recorded By **S/L** Witnessed By **KEITH BROWN**

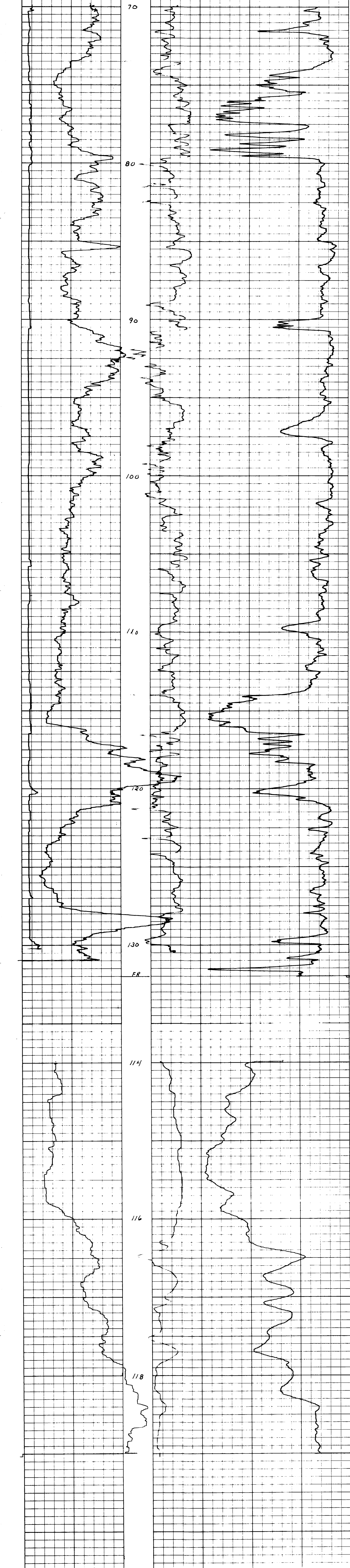
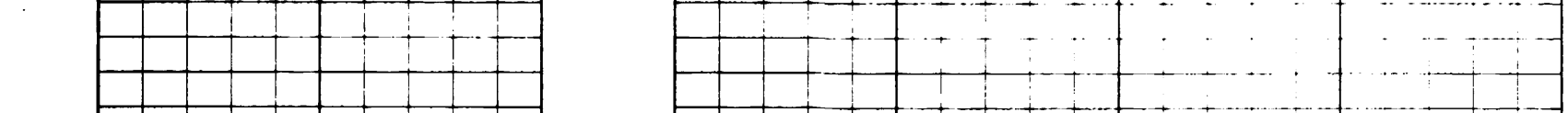
**EQUIPMENT DATA**

Run No.	GAMMA RAY	RESISTANCE	DENSITY	CALIPER
1	L-103	L-103	L-103	L-103
2	32 mm	32 mm	32 mm	32 mm
3	SCINT	E	FOCUSED	EM
4	75 cm	5 cm	5 cm	
5		<b>25 R/DIV</b>		
6			HOVP	
7			980	
8			AM241	
9			92 GBq	

**LOGGING DATA**

RUN NO	GENERAL DEPTHS		SPEED FT MIN	TC SEC	GAMMA RAY			TC SEC	DENSITY		
	FROM	TO			ZERO DIV L OR R	API UNITS PER LOG DIV	SENS SETTINGS		ZERO DIV L OR R	CPS/DIV	
2	70	132	4	4	50	0	0 R/DIV	3	1K	14	85 cps

Remarks \_\_\_\_\_  
 Inlet Truck No. **1**  
 Location **CAMPBELL RIVER**



132  
 FR  
 114  
 116  
 118

ELECTROLOG		GAMMA RAY		RESISTANCE		
2109 - STREET W CALGARY, ALBERTA T2C 2E9		CALIPER		DENSITY		
File No.		COMPANY	BARRETT, CARL / TEL: 246-8888			
LSI		WELL	92-033 M.A. 1 / (89, 306, 850)			
SEC		LOCATION	PT 75 E 99, 283, 955			
TRIP		FIELD	QUINER			
ROD		PROVINCE	B.C.			
W		LSI	SEC	TRIP	ROD	W
M		Other Services				
		Permanent Station	ORIGIN LEVEL			
		Log Measured From	G.L. Above Perm Datum			
		Well Depth Measured From	G.L. -355.077			
Run No.	1	Run No.	EX-28869			
Date	4 Oct 72					
First Reading	166					
Last Reading	9					
Logging Logged	166					
Depth Reached	166					
Depth Backlog	166					
Casing Diameter	1.8					
Casing Spacing	1.8					
Fluid Type	WATER					
Liquid Level	173.4					
Main Diameter	2.76					
Operating Time	1					
Tool No.	171	Measured By	LEWIS			

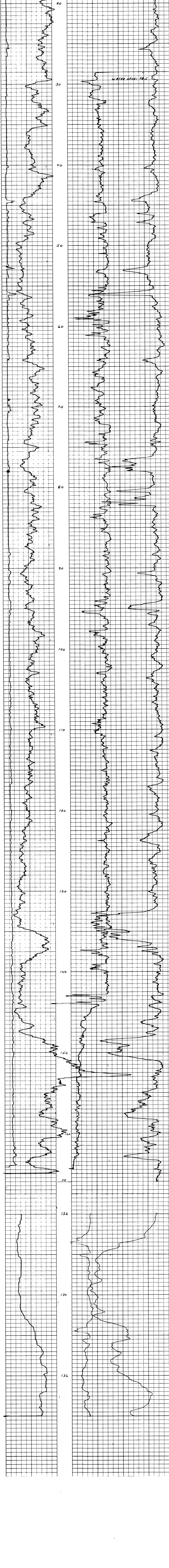
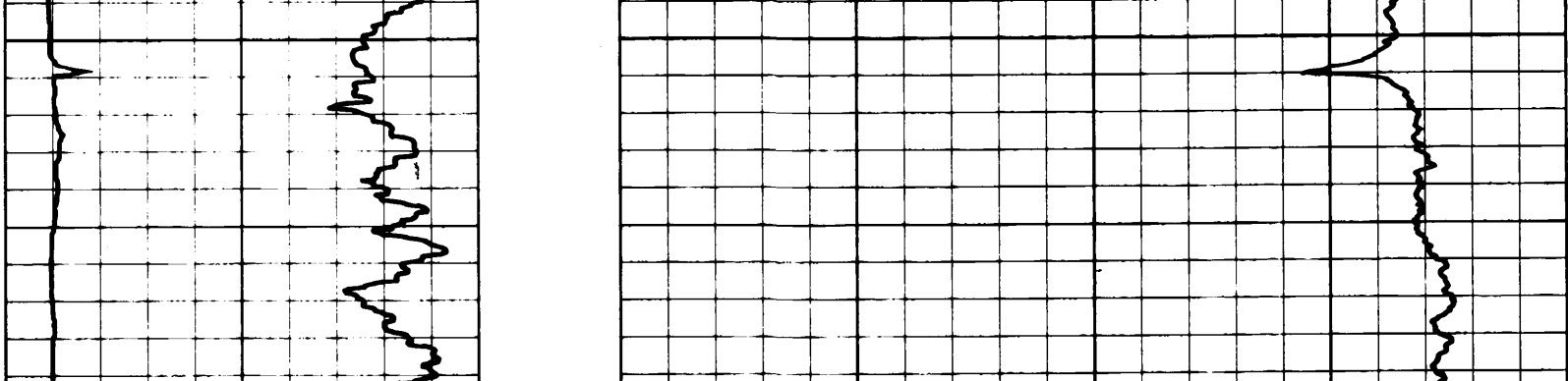
GAMMA RAY		RESISTANCE		DENSITY		CALIPER	
Run No.	1	1	1	1	1	1	1
Tool Model No.	L-103	L-103	L-103	L-103	L-103	L-103	L-103
Diameter	32 mm	32 mm	32 mm	32 mm	32 mm	32 mm	32 mm
Type	SCINT	E		FOCUSED		EM	
Spacing							
Length	75 cm	5 cm		5 cm			
Horiz. Scale		25 R/O/V					
Source						HOVP	
Serial No.						980	
Isotope						AM241	
Strength						92 GBq	

LOGGING DATA											
GENERAL				GAMMA RAY				DENSITY			
RUN NO.	FROM	TO	SPEED MIN	T.C. SEC	SENS SETTINGS	ZERO DIV L OR R	API UNITS PER LOG DIV	T.C. SEC	SENS SETTINGS	ZERO DIV L OR R	CP/DIV
1	0	166	4	4	50	0	B API	2	1K	2L	85 CPS

Remarks: General

Inst. Truck No. 1

Location: BRIMLEY RIVER

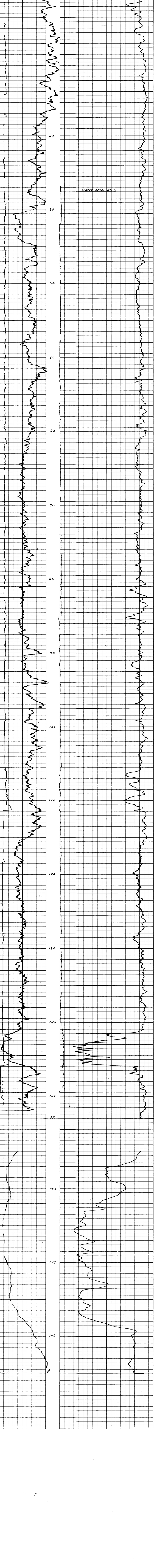




ELECTROLOG SERVICE INC.		GAMMA RAY		RESISTANCE	
2000 WESTERN AVE SUITE 270-4444 VANCOUVER, BC V6L 2Y6		CALIPER		DENSITY	
WELL No.	92-03472-A-11	WELL	92-03472-A-11	LOG	528.7536
COMPANY	ARUDA 5001 TRIUMPH 9088	LOCATION	17.75 E 71.253 0.24		
PROVINCE	BC				
Inst. Truck No.	1	Location	CAMBERLY RIVER		
Paramount Datum	GROUND LEVEL	Em.		Em. KG	
Log Measured From	7.7	Above Perm. Datum		CSG	Q.L. 322.776
Well Depth Measured From					
Run No.	1	Run No.	1	Run No.	1
Core No.	3 OF 23	Core No.	3 OF 23	Core No.	3 OF 23
First Reading	153	First Reading	153	First Reading	153
Footage Logged	0	Footage Logged	141	Footage Logged	141
Depth Reached	153	Depth Reached	153	Depth Reached	153
Casing Diameter	3	Casing Diameter	3	Casing Diameter	3
Casing Material	4.0764	Casing Material	4.0764	Casing Material	4.0764
Fluid Type	42.6	Fluid Type	42.6	Fluid Type	42.6
Min. Diameter	1/2	Min. Diameter	1/2	Min. Diameter	1/2
Operating Time	1	Operating Time	1	Operating Time	1
Truck No.	5171	Truck No.	5171	Truck No.	5171
Recorded By		Witnessed By	LEWIS	Witnessed By	LEWIS

EQUIPMENT DATA			
GAMMA RAY	RESISTANCE	DENSITY	CALIPER
Run No. 1	1	1	1
Tool Model No. L-103	L-103	L-103	L-103
Diameter 32 mm	32 mm	32 mm	32 mm
Type SCINT	E	FOCUSED	EM
Spacing			
Length 75 cm	5 cm	5 cm	
Horiz. Scale	25.7 DU		
Source		HOVP	
Serial No.		960	
Isotope		AM241	
Strength		82 GBq	

LOGGING DATA									
GENERAL			GAMMA-RAY				DENSITY		
RUN NO.	DEPTHS	SPEED	T.C.	SENS.	ZERO	API UNITS	T.C.	SENS.	ZERO
NO.	FROM	TO	SEC.	SETTINGS	DIV. L OR R.	PER LOG DIV.	SEC.	SETTINGS	DIV. L OR R.
1	0	15.3	4	50	0	8.00	2	18	2.4
Remarks: HOLE FILLED WITH WATER									
Inst. Truck No. 1							General		
Location CAMBERLY RIVER									





**GAMMA RAY**  
**CALIPER**  
**RESISTANCE**  
**DENSITY**

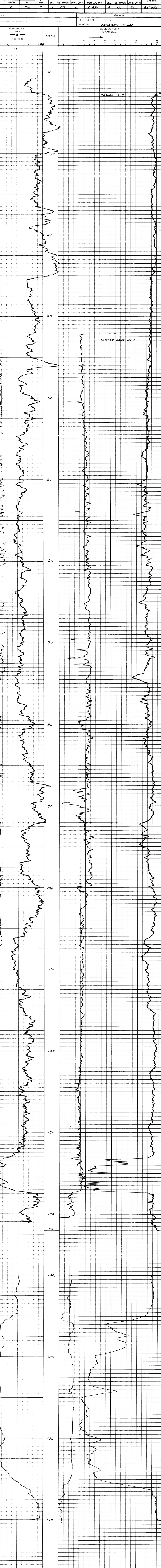
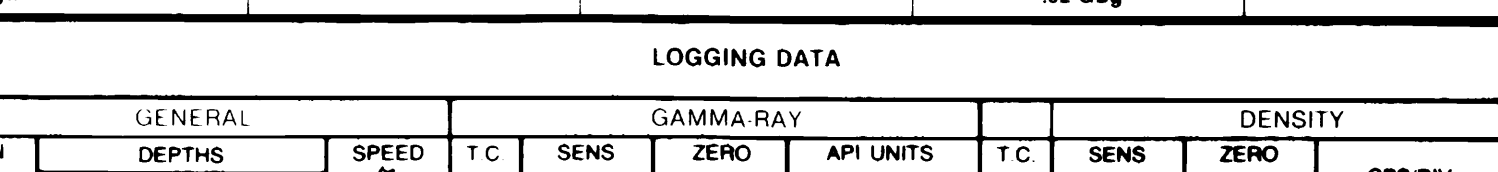
COMPANY SEALCO COAL LIMITED 8888  
 WELL 22-085 PINE N 100 258.621  
 LOCATION R1 7.5 E 89.459.329  
 FIELD 22/45/81  
 PROVINCE BC  
 LSD SEC TYP RGE W  
 PERMANENT DATUM GROUND LEVEL Elev. AB  
 Log Measured from 2.7 Above Perm. Datum  
 Well Depth Measured from GL 336.151

Run No. 1  
 Date 5 Oct 82  
 First Reading 0  
 Last Reading 0  
 Footage Logged 0  
 Depth Reached 1/2  
 Depth Driver 2.7  
 Casing Footings  
 Casing Driver  
 Fluid Type WATER  
 Liquid Level 32.1  
 Man. Diameter 1/4" 82  
 Opening Time  
 Truck No. 517  
 Recorder By SEITZNER

EQUIPMENT DATA			
GAMMA RAY	RESISTANCE	DENSITY	CALIPER
Run No. 1	1	1	1
Tool Model No. L-103	L-103	L-103	L-103
Diameter 32 mm	32 mm	32 mm	32 mm
Type SCINT	E	FOCUSED	EM
Spacing			
Length 75 cm	5 cm	5 cm	
Horiz. Scale	10 cm/Div		
Source		HOVP	
Serial No.		980	
Isotope		AM241	
Strength		92 GBq	

LOGGING DATA											
GENERAL				GAMMA RAY				DENSITY			
RUN NO.	DEPTHS		SPEED MIN	T.C. SEC	SENS SETTINGS	ZERO DIV. OR R.	API UNITS PER LOG DIV.	T.C. SEC	SENS SETTINGS	ZERO DIV. OR R.	CPS/DIV.
	FROM	TO									
1	0	1/2	4	4	50	0	BAP	2	1/K	42	85 cps

Remarks: \_\_\_\_\_  
 Inst. Truck No. 1  
 Location CAMPBELL RIVER





**GAMMA RAY CALIPER RESISTANCE DENSITY**

COMPANY AGRIUM ROAD DEVELOPMENT  
 WELL 92-036 (70' N) 100-269-881  
 LOCATION BT 75 E 79 661.266  
 FIELD GRASSBARI  
 PROVINCE AL  
 LSD SEC TYP RGE W  
 PERMANENT Datum GROUND LEVEL Elev Above Perm Datum  
 Log Measured From GL  
 Wall Depth Measured From

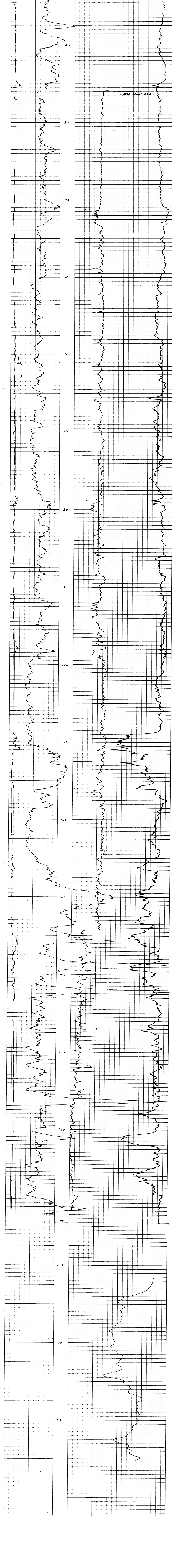
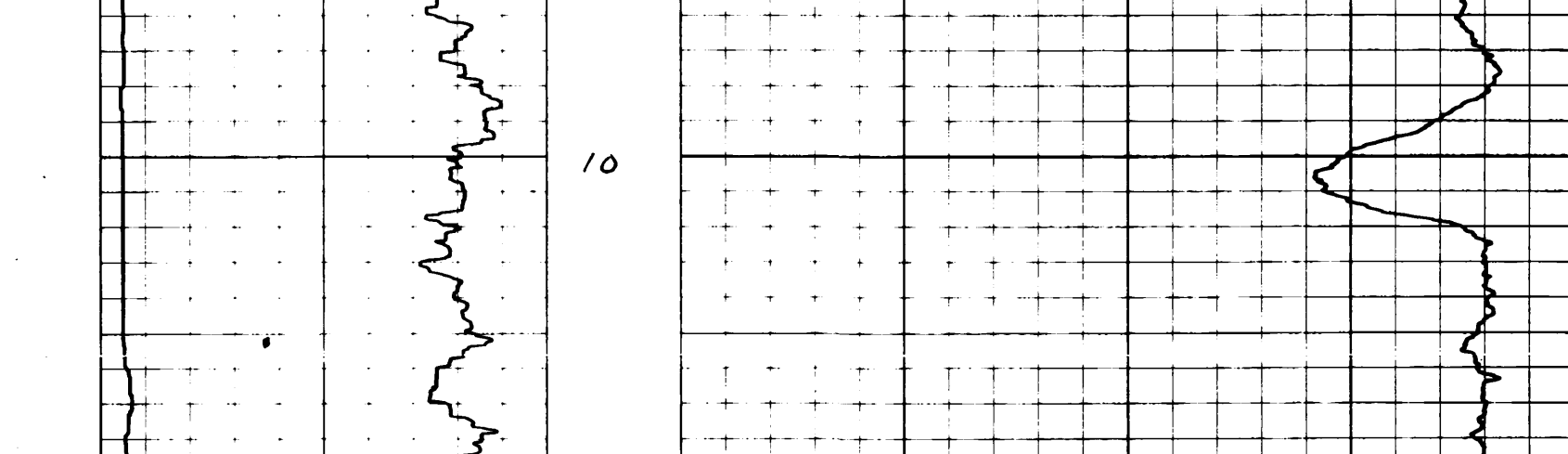
Run No 1 EQUIP NO  
 Date 8 OCT 82 1/13  
 First Reading 0 10K  
 Last Reading 172 5  
 Footage Logged

Depth Reached 172  
 Depth Dialer  
 Counting Electronics  
 Counting Dialer  
 Fluid Type WATER  
 Liquid Level 45.8  
 Min. Diameter 1/4  
 Opening Time  
 Truck No. 218  
 Recorded By LEITNER

EQUIPMENT DATA			
GAMMA RAY	RESISTANCE	DENSITY	CALIPER
Run No. 1	1	1	1
Tool Model No. L-103	L-103	L-103	L-103
Diameter 32 mm	32 mm	32 mm	32 mm
Type SCINT	E	FOCUSED	EM
Spacing 75 cm	5 cm	5 cm	
Length			
Horiz. Scale 25' (0.10)			
Source		HOVP	
Serial No.		980	
Isotope		AM241	
Strength		92 GBq	

LOGGING DATA											
GENERAL				GAMMA RAY				DENSITY			
RUN NO	DEPTHS		SPEED	TC	SENS	ZERO	API UNITS	TC	SENS	ZERO	CPS/DIV
NO	FROM	TO	MIN	SEC	SETTINGS	DIV L OR R	PER LOG DIV	SEC	SETTINGS	DIV L OR R	
1	0	172	4	4	50	0	8 API	2	14	24	8500

Remarks: \_\_\_\_\_  
 Instr. Truck No. 1  
 Location KAMPAH RIVER





**ELECTRICAL LOG**

2100 - 1 STREET N.W.  
CALGARY, ALBERTA  
(403) 278-8888

**GAMMA RAY CALIPER RESISTANCE DENSITY**

COMPANY: BELOCO CORP. (LTD.)  
WELL: 92-027 795. N 100. 58.2-83.2  
LOCATION: DT 7.5 E 82. 83.2-66.1  
FIELD: QUILKIN  
PROVINCE: B.C.

LOG MEASURED FROM: GROUND LEVEL  
WELL DEPTH MEASURED FROM: ABOVE FIRM DATUM  
LOG MEASURED FROM: C. I.  
LOG MEASURED FROM: CSG  
LOG MEASURED FROM: GL

PERMANENT DATUM: GROUND LEVEL  
LOG MEASURED FROM: ABOVE FIRM DATUM  
WELL DEPTH MEASURED FROM: C. I.

DATE: 4 OCT 72  
TIME: 11:58  
LOG NUMBER: 0

DEPTH REACHED: 158.4  
DEPTH: 158.5  
CALIBER: 38.4  
LIQUID LEVEL: WATER  
MIN. DIAMETER: 38.4  
OPENING TIME: 1/24.45

RECORDED BY: SLV  
WITNESSED BY: LEITCHER

**EQUIPMENT DATA**

GAMMA RAY	RESISTANCE	DENSITY	CALIPER
Run No. 1	1	1	1
Tool Model No. L-103	L-103	L-103	L-103
Diameter 32 mm	32 mm	32 mm	32 mm
Type SCINT	E	FOCUSED	EM
Spacing			
Length 75 cm	5 cm	5 cm	
Horiz. Scale	25.52 / 100		
Source		HOVP	
Serial No.		980	
Isotope		AM241	
Strength		92 GBq	

**LOGGING DATA**

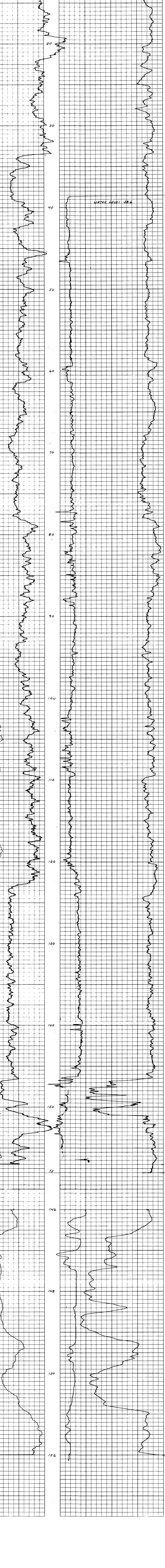
RUN NO.	GENERAL		SPEED MIN	T.C. SEC	GAMMA RAY		API UNITS		T.C. SEC	DENSITY		CPS/DIV.
	FROM	TO			SENS SETTINGS	ZERO DIV. L OR R	PER LOG DIV.	SENS SETTINGS		ZERO DIV. L OR R		
1	0	158	4	4	50	0	BAF	2	2	1K	2L	85 cps

REMARKS: General

INST. TRUCK NO. 1

LOCATION: CARBOLEI RIVER

BULK DENSITY (GRAMS/CC)





**ELECTROLOG SERVICES INC.**  
 2108-1 STREET NW  
 CALGARY, ALBERTA  
 (403) 276-4489

**GAMMA RAY RESISTANCE CALIPER DENSITY**

File No. \_\_\_\_\_  
 COMPANY BARON COAL LIMITED 6082  
 WELL 92-038 M716 N 100 285-379  
 TWP 25 T 2 S E 100 175 620  
 RGE \_\_\_\_\_  
 W \_\_\_\_\_ M \_\_\_\_\_  
 FIELD ALBERTA  
 PROVINCE BC  
 LSO \_\_\_\_\_ SEC \_\_\_\_\_ TWP \_\_\_\_\_ RGE \_\_\_\_\_ W \_\_\_\_\_

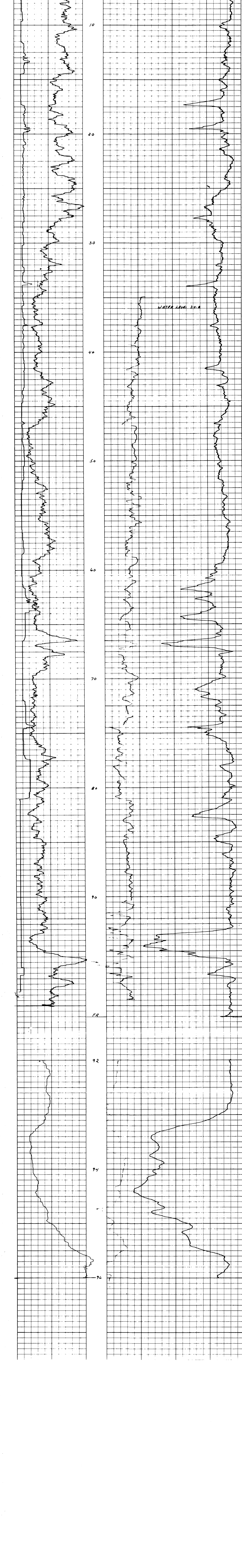
Permanent Datum \_\_\_\_\_ ELEV \_\_\_\_\_  
 Log Measured From 6.1 Above Perm Datum  
 Wall Depth Measured From \_\_\_\_\_ G.L. 356.07

Run No. 1  
 Date 17 OCT 92  
 First Reading 101  
 Last Reading 0  
 Footage Logged 101  
 Depth Reached 101  
 Depth Driller \_\_\_\_\_  
 Logging Electrician \_\_\_\_\_  
 Logging Operator \_\_\_\_\_  
 Fluid Type 4.0728  
 Liquid Level 37.8  
 Min Diameter 1/4  
 Operating Time 1 1/2 HRS  
 Tool No. \_\_\_\_\_  
 Recorded By SLM Witnessed By GRANDER

EQUIPMENT DATA			
GAMMA RAY	RESISTANCE	DENSITY	CALIPER
Run No. 1	1	1	1
Tool Model No. L-103	L-103	L-103	L103
Diameter 32 mm	32 mm	32 mm	32 mm
Type SCINT	E	FOCUSED	EM
Spacing			
Length 75 cm	5 cm	5 cm	
Hqiz. Scale <u>25.8/100</u>			
Source		HOVP	
Serial No.		980	
Isotope		AM241	
Strength		92 GBq	

LOGGING DATA										
GENERAL			GAMMA RAY				DENSITY			
RUN NO.	DEPTHS FROM	TO	T.C. SEC	SENS SETTINGS	ZERO DIV L OR R	API UNITS PER LOG DIV	T.C. SEC	SENS SETTINGS	ZERO DIV L OR R	CPS/DIV
1	0	101	4	50	0	8 API	2	1/6	22	25 cps

Remarks \_\_\_\_\_  
 Inst. Truck No. \_\_\_\_\_  
 Location CALIBRELL ROAD

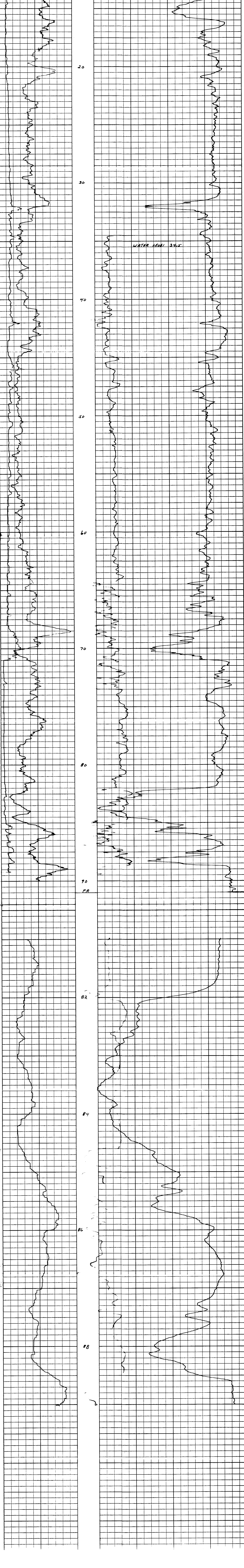
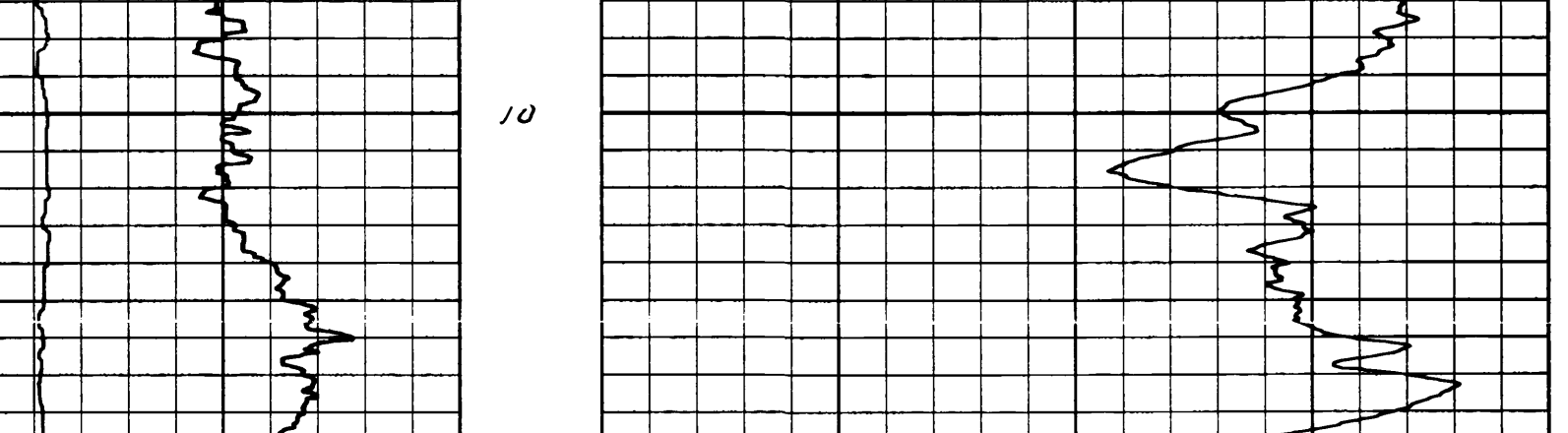


ELECTROLOG SERVICES INC. 3109 - 1 STREET NW CALGARY, ALBERTA (403) 278-6659		GAMMA RAY CALIPER		RESISTANCE DENSITY	
File No.	COMPANY	RESISTANCE			
File No.	SEC	DENSITY			
File No.	TWP	CALIPER			
File No.	RGE	RESISTANCE			
File No.	W	DENSITY			
File No.	M	CALIPER			
File No.	FIELD	RESISTANCE			
File No.	PROVINCE	DENSITY			
File No.	SEC	CALIPER			
File No.	TWP	RESISTANCE			
File No.	RGE	DENSITY			
File No.	W	CALIPER			
File No.	M	RESISTANCE			
File No.	Other Services	DENSITY			
File No.	Permanent Datum	CALIPER			
File No.	GROUND LEVEL	RESISTANCE			
File No.	Elev	DENSITY			
File No.	Log Measured From	CALIPER			
File No.	G.L.	RESISTANCE			
File No.	Above Perm Datum	DENSITY			
File No.	Well Depth Measured From	CALIPER			
File No.	G.L.	RESISTANCE			
File No.	3455	DENSITY			
File No.	Run No.	CALIPER			
File No.	1	RESISTANCE			
File No.	Date	DENSITY			
File No.	12 OCT 72	CALIPER			
File No.	First Reading	RESISTANCE			
File No.	91	DENSITY			
File No.	Last Reading	CALIPER			
File No.	9	RESISTANCE			
File No.	Footage Logged	DENSITY			
File No.	91	CALIPER			
File No.	Depth Reached	RESISTANCE			
File No.	91	DENSITY			
File No.	Depth Driller	CALIPER			
File No.	Casing Drilling	RESISTANCE			
File No.	Casing Drilling	DENSITY			
File No.	Casing Driller	CALIPER			
File No.	Fluid Type	RESISTANCE			
File No.	WATER	DENSITY			
File No.	Liquid Level	CALIPER			
File No.	34.5	RESISTANCE			
File No.	Min. Diameter	DENSITY			
File No.	1/4	CALIPER			
File No.	Operating Time	RESISTANCE			
File No.	1/2 hr	DENSITY			
File No.	Track No.	CALIPER			
File No.	1	RESISTANCE			
File No.	Recorded By	DENSITY			
File No.	S/N	CALIPER			
File No.	Witnessed By	RESISTANCE			
File No.	GA88282	DENSITY			

EQUIPMENT DATA									
GAMMA RAY		RESISTANCE		DENSITY		CALIPER			
Run No.	1	1	1	1	1	1	1	1	1
Tool Model No.	L-103	L-103	L-103	L-103	L-103	L-103	L-103	L-103	L-103
Diameter	32 mm	32 mm	32 mm	32 mm	32 mm	32 mm	32 mm	32 mm	32 mm
Type	SCINT	E	FOCUSED	EM					
Spacing									
Length	75 cm	5 cm	5 cm	5 cm					
Horiz. Scale	25.2 / DIV								
Source					HOVP				
Serial No.					980				
Isotope					AM241				
Strength					92 GBq				

LOGGING DATA										
GENERAL			GAMMA RAY				DENSITY			
RUN NO.	DEPTHS		T.C. SEC	SENS. SETTINGS	ZERO DIV. L OR R	API UNITS PER LOG DIV	T.C. SEC	SENS. SETTINGS	ZERO DIV. L OR R	CPS/DIV
	FROM	TO								
1	0	91	4	50	0	8 API	2	1K	2x	85 cps

Remarks: \_\_\_\_\_ General \_\_\_\_\_  
 Truck No. \_\_\_\_\_  
 Location: CAMPBELL RIVER





**GAMMA RAY RESISTANCE**  
**CALIPER DENSITY**

COMPANY BRALCO COAL TRADING CORP  
 WELL 20-040 Mine N 100, 334-047  
 LOCATION P/T 75 E 100, 342.620  
 FIELD QUILSEBY  
 PROVINCE BC

File No \_\_\_\_\_  
 LSD \_\_\_\_\_  
 SEC \_\_\_\_\_  
 TWP \_\_\_\_\_  
 RGE \_\_\_\_\_  
 W \_\_\_\_\_ M \_\_\_\_\_

Permanent Datum \_\_\_\_\_ GROUND LEVEL \_\_\_\_\_ Elev \_\_\_\_\_  
 Log Measured From 2.7 Above Perm. Datum \_\_\_\_\_ Elev. KB \_\_\_\_\_  
 Well Depth Measured From \_\_\_\_\_ CSG \_\_\_\_\_  
 GL 300.46

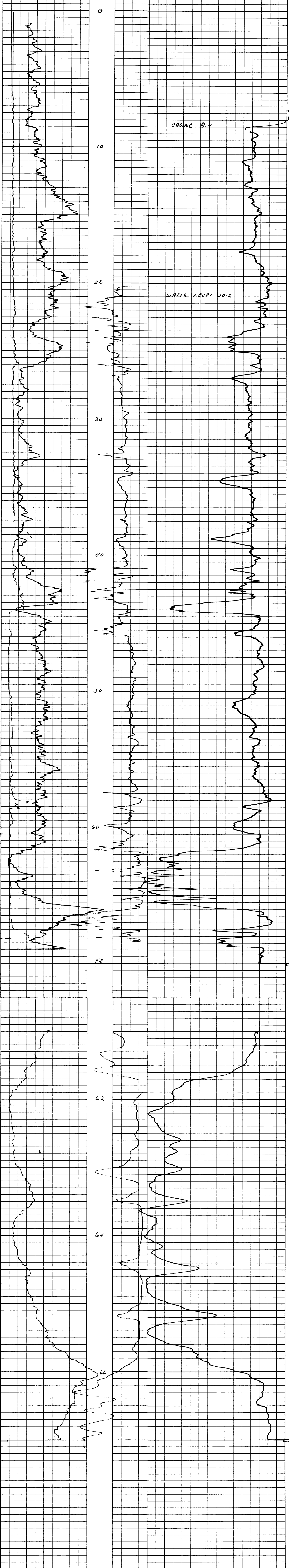
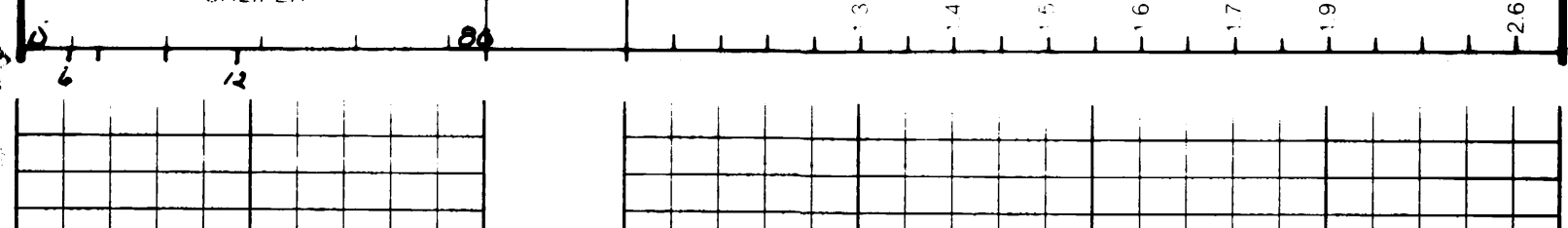
Run No 1 EXPANDED  
 Date 17 OCT 92  
 First Reading 70 67  
 Last Reading 0 61  
 Footage Logged 70 70 6

Depth Reached 70  
 Depth Driller \_\_\_\_\_  
 Casing Driller \_\_\_\_\_  
 Fluid Type WATER  
 Liquid Level 20.2  
 Min. Diameter 1 1/4"  
 Operating Time \_\_\_\_\_  
 Truck No 1  
 Recorded By S/L Witnessed By GAUDRE

EQUIPMENT DATA			
GAMMA RAY	RESISTANCE	DENSITY	CALIPER
Run No. 1	1	1	1
Tool Model No. L-103	L-103	L-103	L-103
Diameter 32 mm	32 mm	32 mm	32 mm
Type SCINT	E	FOCUSED	EM
Spacing			
Length 75 cm	5 cm	5 cm	
Horiz. Scale	<u>25 x 0.2</u>		
Source		HOVP	
Serial No.		980	
Isotope		AM241	
Strength		.92 GBq	

LOGGING DATA											
GENERAL				GAMMA RAY				DENSITY			
RUN NO	DEPTHS		SPEED MIN	T.C. SEC	SENS SETTINGS	ZERO DIV L OR R	API UNITS PER LOG DIV	T.C. SEC	SENS SETTINGS	ZERO DIV L OR R	CPS/DIV
1	0	70	4	4	50	0	9 API	3	1K	3L	85 CPS

Remarks \_\_\_\_\_  
 General \_\_\_\_\_  
 Inst. Truck No. 1  
 Location CAMPBELL RIVER





**ELECTROLOG SERVICES INC.**  
 2109 - 1 STREET NW  
 CALGARY, ALBERTA  
 (403) 276-6469

**GAMMA RAY CALIPER RESISTANCE DENSITY**

File No. \_\_\_\_\_  
 COMPANY BARBARA EARL TRUBBIE CORP  
 WELL 22-04/1725-1 100, 172, 834  
 LOCATION R7 75 E 100 342-357  
 TWP \_\_\_\_\_ RGE \_\_\_\_\_  
 SEC \_\_\_\_\_  
 FIELD QUILASNIT  
 PROVINCE B.C.  
 LSD \_\_\_\_\_ SEC \_\_\_\_\_ TWP \_\_\_\_\_ RGE \_\_\_\_\_ W \_\_\_\_\_

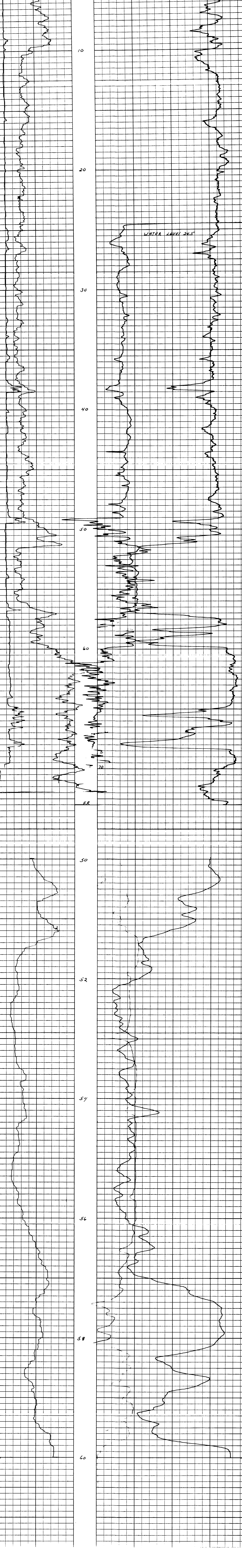
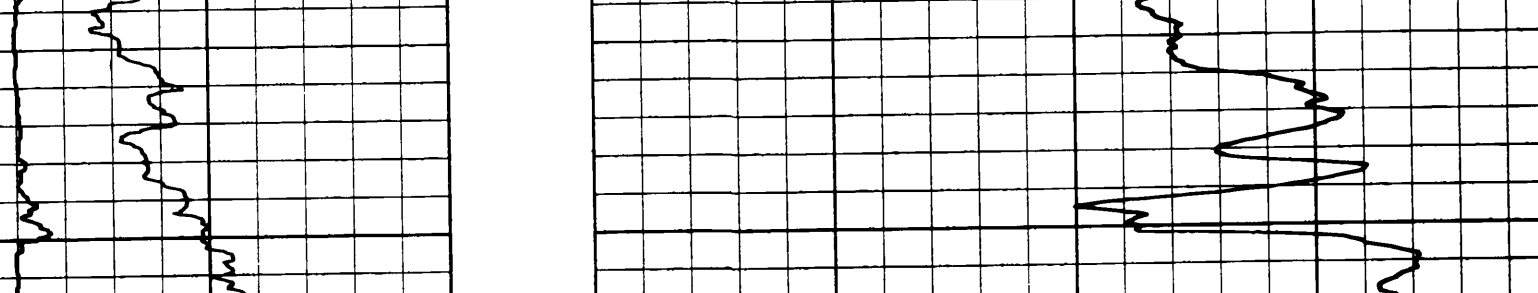
Permanent Datum \_\_\_\_\_ Elev. KB \_\_\_\_\_  
 GROUND LEVEL \_\_\_\_\_ Elev. \_\_\_\_\_  
 Log Measured From 6.4 Above Perm Datum  
 Well Depth Measured From \_\_\_\_\_ G.L. 276.63

Run No. 1 Date 17 OCT 72 83200250  
 First Reading 23 40  
 Last Reading 0 58  
 Footage Logged 23  
 Depth Reached 23  
 Depth Driller 10  
 Casing Driller \_\_\_\_\_  
 Casing Drilling \_\_\_\_\_  
 Fluid Type WATER  
 Liquid Level 24.5  
 Min Diameter 14  
 Operating Time 1 1/2 hrs  
 Truck No. 1  
 Recorded By S/L Witnessed By AGD/WR

GAMMA RAY		RESISTANCE		DENSITY		CALIPER	
Run No.	1	1	1	1	1	1	1
Tool Model No.	L-103	L-103	L-103	L-103	L-103	L-103	L-103
Diameter	32 mm	32 mm	32 mm	32 mm	32 mm	32 mm	32 mm
Type	SCINT	E	FOCUSED	EM			
Spacing							
Length	75 cm	5 cm	5 cm				
Horiz. Scale	<u>25 cm/div</u>						
Source				HOVP			
Serial No.				980			
Isotope				AM241			
Strength				32 GBq			

LOGGING DATA											
RUN NO.	GENERAL DEPTHS		SPEED MIN	T.C. SEC	SENS SETTINGS	GAMMA RAY ZERO DIV L OR R	API UNITS PER LOG DIV	T.C. SEC	SENS SETTINGS	DENSITY ZERO DIV L OR R	CPS/DIV
	FROM	TO									
1	0	23	4	7	50	0	BAP	2	1X	34	85 c/s

Remarks \_\_\_\_\_  
 First Truck No. 1  
 Location CARROLL RIVER



2109 - 1 STREET NW  
CALGARY, ALBERTA  
(403) 278-6488

**GAMMA RAY  
CALIPER**

**RESISTANCE  
DENSITY**

LSD \_\_\_\_\_ Fm No \_\_\_\_\_  
 SEC \_\_\_\_\_ COMPANY **BRUCE COAL LIMITED COOP**  
 TWP \_\_\_\_\_ WELL **92-042 Mtd N 103.125.118**  
 RGE \_\_\_\_\_ LOCATION **PT 25 E 103 1W 836**  
 W \_\_\_\_\_ M \_\_\_\_\_ FIELD **QUINSDA**  
 PROVINCE **AL** Other Services \_\_\_\_\_

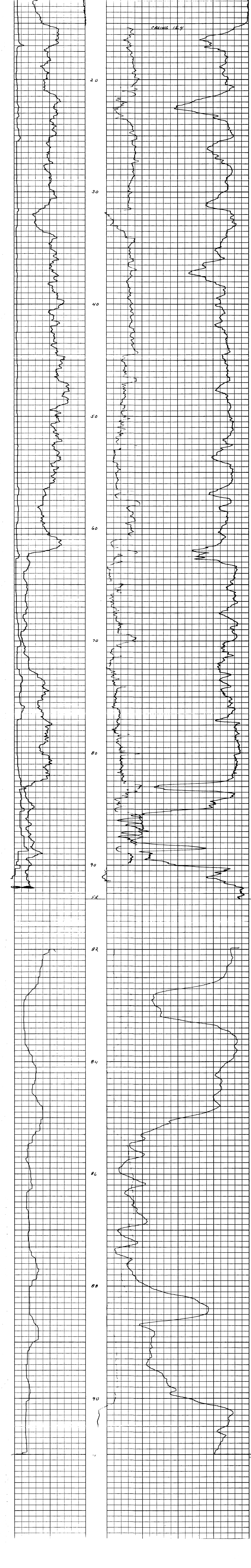
Permanent Datum \_\_\_\_\_ GROUND LEVEL \_\_\_\_\_ Elev. AB \_\_\_\_\_  
 Log Measured From **G.L.** Above Perm. Datum \_\_\_\_\_  
 Well Depth Measured From \_\_\_\_\_ CSG **GL 254.66**

Run No \_\_\_\_\_ 1 \_\_\_\_\_ EXPOSURE \_\_\_\_\_  
 Date \_\_\_\_\_ 18 OCT 92 \_\_\_\_\_  
 First Reading \_\_\_\_\_ 93 \_\_\_\_\_ 91 \_\_\_\_\_  
 Last Reading \_\_\_\_\_ 0 \_\_\_\_\_ 82 \_\_\_\_\_  
 Footlogs Logged \_\_\_\_\_ 93 \_\_\_\_\_ 9 \_\_\_\_\_  
 Depth Reached \_\_\_\_\_ 93 \_\_\_\_\_  
 Depth Driller \_\_\_\_\_ 93 \_\_\_\_\_  
 Casing Electrics \_\_\_\_\_ 15.4 \_\_\_\_\_  
 Casing Diaper \_\_\_\_\_  
 Fluid Type **WATER**  
 Liquid Level \_\_\_\_\_ 3 \_\_\_\_\_  
 Min Diameter \_\_\_\_\_ 1/4 \_\_\_\_\_  
 Operating Time \_\_\_\_\_ 1 1/2 HR \_\_\_\_\_  
 Truck No \_\_\_\_\_ 1 \_\_\_\_\_  
 Recorded By \_\_\_\_\_ 5/21 \_\_\_\_\_ Witnessed By **CAMPBELL**

EQUIPMENT DATA			
GAMMA RAY	RESISTANCE	DENSITY	CALIPER
Run No. 1	1	1	1
Tool Model No. L-103	L-103	L-103	L-103
Diameter 32 mm	32 mm	32 mm	32 mm
Type SCINT	E	FOCUSED	EM
Spacing _____			
Length 75 cm	5 cm	5 cm	
Horiz. Scale <b>2.5 JL/IN</b>			
Source _____		HOVP	
Serial No _____		980	
Isotope _____		AM241	
Strength _____		92 GBq	

LOGGING DATA											
RUN NO	GENERAL		SPEED MIN	TC SEC	GAMMA RAY			DENSITY			
	FROM	TO			SENS SETTINGS	ZERO DIV L OR R	API UNITS PER LOG DIV	TC SEC	SENS SETTINGS	ZERO DIV L OR R	CPS/DIV
1	0	93	4	4	50	0	800	2	1K	26	85 CBS

Revisions \_\_\_\_\_ General \_\_\_\_\_  
 Truck No. \_\_\_\_\_ 1 \_\_\_\_\_  
 Location **CAMPBELL RIVER**





2100 - 1 STREET N.W.  
CALGARY, ALBERTA  
(403) 278-8888

**GAMMA RAY  
CALIPER**

**RESISTANCE  
DENSITY**

File No. \_\_\_\_\_  
 COMPANY BRUNNEN OIL TANKS CORP.  
 WELL 92-0-73 Mine N 103, 083-070  
 TYP 91 75 E 100, 182, 538  
 LOCATION \_\_\_\_\_  
 RGE \_\_\_\_\_  
 W \_\_\_\_\_ M \_\_\_\_\_  
 PROVINCE 8 C  
 LSD SEC TWP RGE W  
 Other Services \_\_\_\_\_

Permanent Datum \_\_\_\_\_ Elev. \_\_\_\_\_  
 Log Measured From 6.7 Above Perm Datum  
 Well Depth Measured From \_\_\_\_\_ Elev. KB \_\_\_\_\_  
 \_\_\_\_\_ CSG \_\_\_\_\_  
 \_\_\_\_\_ GL 35.409

Date	<u>18 OCT 92</u>	EXPLORE
Run No.	<u>1</u>	
First Reading	<u>97</u>	<u>92</u>
Last Reading	<u>0</u>	<u>84</u>
Footage Logged	<u>97</u>	<u>8</u>
Depth Reached	<u>97</u>	
Depth Driller		
Casing Electrod	<u>2</u>	
Casing Driller		
Fluid Type	<u>WATER</u>	
Liquid Level	<u>3</u>	
Min Diameter	<u>14</u>	
Operating Time	<u>1 1/2 HR</u>	
Truck No.	<u>1</u>	
Recorded By	<u>SJA</u>	Witnessed By <u>CADANER</u>

**EQUIPMENT DATA**

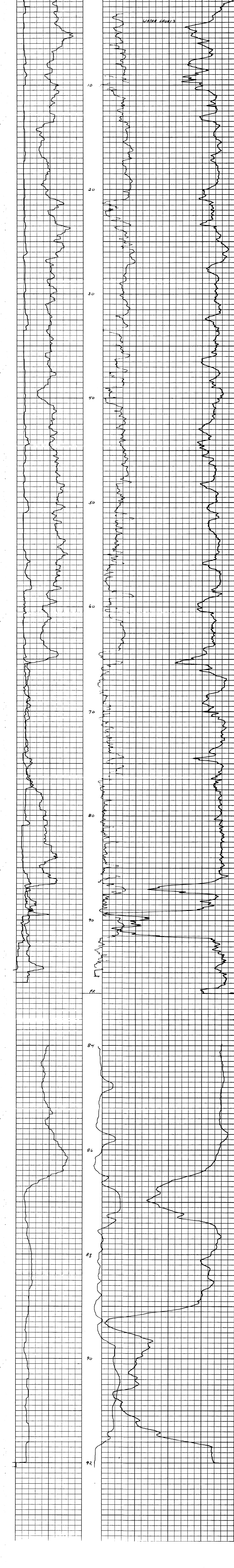
	GAMMA RAY	RESISTANCE	DENSITY	CALIPER
Run No.	1	1	1	1
Tool Model No.	L-103	L-103	L-103	L-103
Diameter	32 mm	32 mm	32 mm	32 mm
Type	SCINT	E	FOCUSED	EM
Spacing			5 cm	
Length	75 cm	5 cm		
Horiz. Scale				HOVP
Source				980
Serial No.				AM241
Isotope				92 GBq
Strength				

**LOGGING DATA**

RUN NO.	GENERAL		SPEED MIN	T.C. SEC	GAMMA RAY			T.C. SEC	DENSITY		CPS/DIV.
	DEPTHS FROM	TO			SENS SETTINGS	ZERO DIV L OR R	API UNITS PER LOG DIV		SENS SETTINGS	ZERO DIV L OR R	
1	0	97	4	4	50	0	8 API	2	18	26	85 CPS

Remarks \_\_\_\_\_

Inst. Truck No. 1  
 Location CANADIAN RIVER





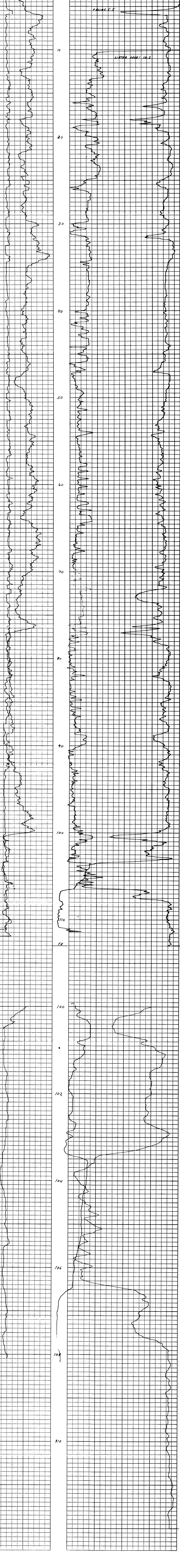


2100 - STREET NW CALIF. (408) 278-4489		<b>GAMMA RAY</b> <b>CALIPER</b> <b>RESISTANCE</b> <b>DENSITY</b>	
LSO SEC. TYP RGE W	COMPANY <i>BURRO GEAR CLINING CO. INC.</i> WELL <i>92-015-720-11-103-107-2-05</i> LOCATION <i>P.T. 25</i> <i>E. 100, 272. 874</i> FIELD <i>QUAD 5471</i> PROVINCE <i>B.C.</i>	FILM No. LSO SEC. TYP RGE W	OTHER SERVICES
Permanent Datum Log Measured From Well Depth Measured From	GROUND LEVEL ELEV. ABOVE Perm. Datum ELEV. NB CSD Q1 <i>32.000</i>		
Run No. Date First Reading Last Reading Footage Logged	1 18 OCT 73 0 113	EXHAUSTED 112	
Depth Filtered Depth Driller casing Electronic casing Diaper Fluid Type Liquid Level Min Diameter Operating Time Truck No. Recorder By	113 113 3.5 4.2266 10.3 4 1 1/2 hrs S/W GARDNER		

EQUIPMENT DATA			
GAMMA RAY	RESISTANCE	DENSITY	CALIPER
Run No.	1	1	1
Tool Model No.	L-103	L-103	L-103
Diameter	32 mm	32 mm	32 mm
Type	SCINT	E	FOCUSED
Spacing			EM
Length	75 cm	5 cm	5 cm
Horiz. Scale	<i>25 ft/100</i>		
Source			HOVP
Serial No.			980
Isotope			AM241
Strength			92 GBq

LOGGING DATA											
GENERAL				GAMMA RAY				DENSITY			
RUN NO	DEPTHS		SPEED	T.C	SENS	ZERO	API UNITS	T.C	SENS	ZERO	CPS/DIV
1	FROM	TO	MIN	SEC	SETTINGS	DIV L OR R	PER LOG DIV	SEC	SETTINGS	DIV L OR R	
	0	113	4	4	30	0	B 001	3	1/K	24	85 CPS

Remarks: \_\_\_\_\_  
 Inst. Truck No. *1*  
 Location *CAMBERLEY RIVER*





ELECTROL OIL SERVICE INC.  
 2109-1 STREET NW  
 CALGARY, ALBERTA  
 (403) 278-9888

**GAMMA RAY RESISTANCE**  
**CALIPER DENSITY**

COMPANY RELIANCE COAL TRADING CORP  
 WELL 98-046 Mine N 103/182-298  
 TWP A17 25 E 102-310-938  
 RGE \_\_\_\_\_  
 W \_\_\_\_\_ N \_\_\_\_\_  
 PROVINCE BC  
 LST \_\_\_\_\_ SEC \_\_\_\_\_ TWP \_\_\_\_\_ RGE \_\_\_\_\_ W \_\_\_\_\_  
 Other Services \_\_\_\_\_

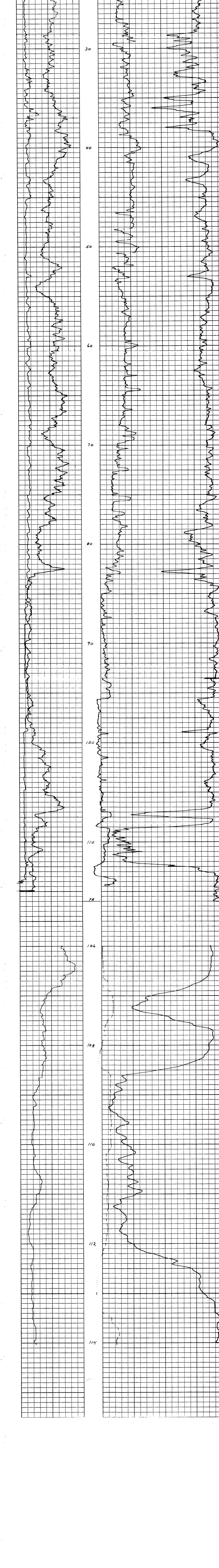
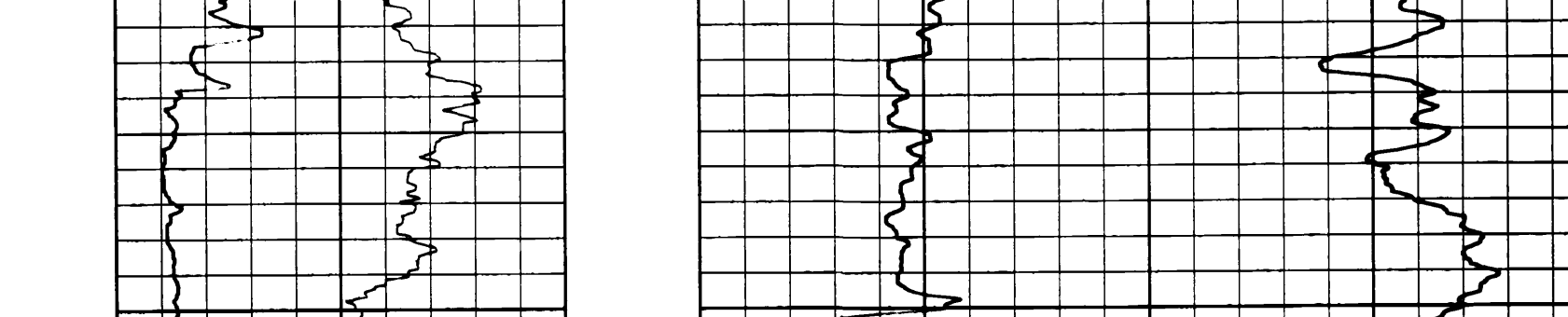
Permanent Datum GROUND LEVEL Elev \_\_\_\_\_  
 Log Measured From CL Above Perm Datum Elev. NB \_\_\_\_\_  
 Well Depth Measured From \_\_\_\_\_ G.S. 24.792

Run No. 1 ELCHAMBER  
 Date 17 Oct 92  
 First Reading 116 114  
 Last Reading 0 106  
 Tooling Logged \_\_\_\_\_  
 Depth Reached 116 8  
 Depth Other \_\_\_\_\_  
 Casing Electrod 12.8  
 Casing Other \_\_\_\_\_  
 Fluid Type WATER  
 Liquid Level 13.9  
 Min Diameter 1"  
 Operating Time 1/4HR  
 Truck No. 1  
 Reported By SLT Witnessed By CAROLAN

EQUIPMENT DATA			
GAMMA RAY	RESISTANCE	DENSITY	CALIPER
Run No. 1	1	1	1
Tool Model No. L-103	L-103	L-103	L-103
Diameter 32 mm	32 mm	32 mm	32 mm
Type SCINT	E	FOCUSSED	EM
Spacing _____	_____	_____	_____
Length 75 cm	5 cm	5 cm	_____
Horiz. Scale _____	_____	_____	_____
Source <u>252Pu</u>	_____	HOVP	_____
Serial No. _____	_____	980	_____
Isotope _____	_____	AM241	_____
Strength _____	_____	92 GBq	_____

LOGGING DATA											
RUN NO.	GENERAL DEPTHS		SPEED X MIN	T.C SEC	GAMMA RAY			DENSITY			
	FROM	TO			SENS SETTINGS	ZERO DIV L OR R	API UNITS PER LOG DIV	T.C SEC	SENS SETTINGS	ZERO DIV L OR R	CPS/DIV
1	0	116	4	4	52	0	8 BPV	2	1K	24	85 CBS

Remarks \_\_\_\_\_  
 Inst. Truck No. 1  
 Location CAMPBELL RIVER





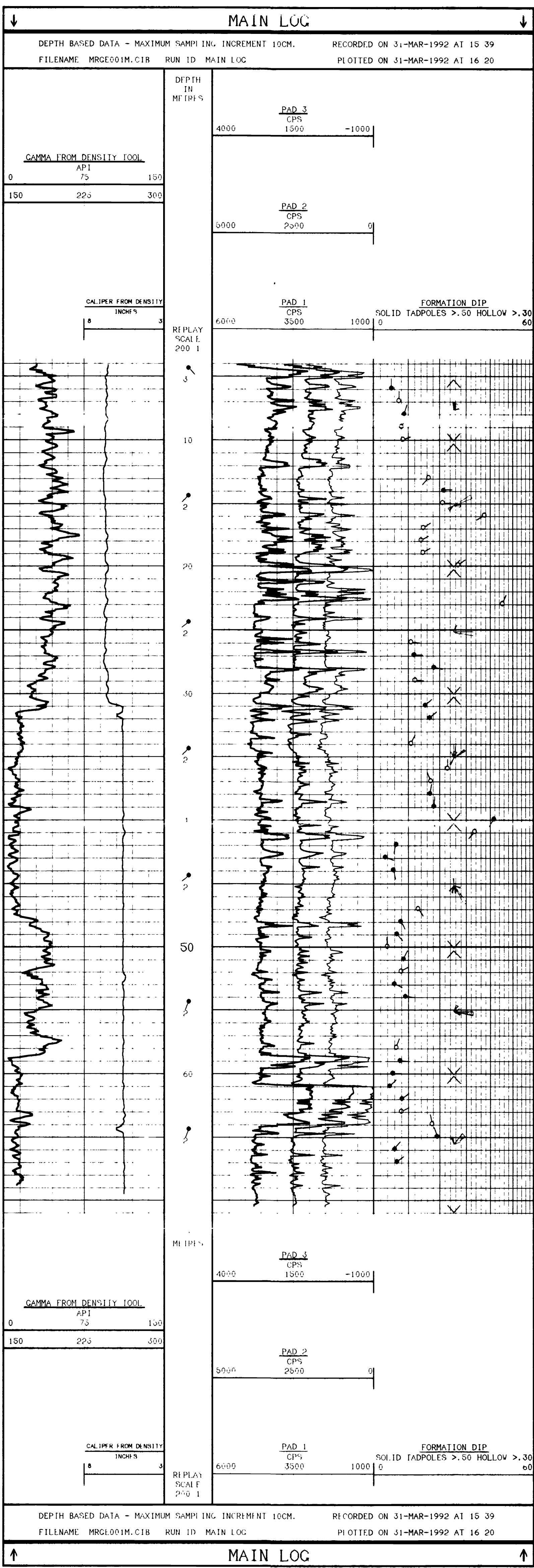


**GAMMA RAY  
DIPMETER  
SLIMLINE UNIT**

LOCATION	CAMPBELL RIVER	OTHER SERVICES:	
PRVNC/CO.	BRITISH COLUMBIA	F.F.	
FIELD	QUINSAM	DDI	
WELL	92-001		
COMPANY	BRINCO COAL MINING CORP.		
DATE	31-MAR-92		
PERMANENT DATUM	C.I.L.	ELEVATION	313.25 M
LOCAL MEASUREMENT FROM	C.I.	ABOVE PERMANENT DATUM	
DRILLING MEASURED FROM	C.I.L.	MB	CI
			313.25 M
RUN NUMBER	001		
DRILLER	70.5 M		
DRILL-OCCUR	70.5 M		
FIRST READING	0		
CASING-DRILLER	4.4 M		
CASING-LOCATOR	4.4 M		
BIT SIZE	5.5"		
HOLE FLUID TYPE	WATER		
DIAMETER	1.1		
DRILL FLUID LOSS			
SCALE SOURCE			
RM @ MEAS TEMP			
RM @ MEAS TEMP			
RM @ MEAS TEMP			
SOURCE: RM/TEMP			
RM @ BIT			
LINE SINCE CIRC			
MA REC TEMP			
EQUIPMENT/BASE	V233	REDETER	
RECORDED BY	JCV		
VIEWED BY			

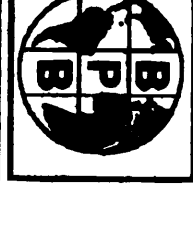
RUN NUMBER	BOREHOLE RECORD			CASING RECORD			
	BIT	FROM	TO	SIZE	WEIGHT	FROM	TO
CNE	5.5"	39.5 M	70.5 M	7"		0	4.4 M
EQUIPMENT							
DIPMETER	202/204						
REMARKS							
GAMMA RAY		DIPMETER		SLIMLINE UNIT			
N 103 526.20 E 99 883.53							
SYSTEM CONFIGURATION DATES		LOGGED	PROCESSED	PLOTTED			

ALL INTERPRETATIONS ARE OPINIONS BASED ON INFERENCES FROM ELECTRICAL OR OTHER MEASUREMENTS AND WE CANNOT AND DO NOT GUARANTEE THE ACCURACY OR CORRECTNESS OF ANY INTERPRETATIONS. AND WE SHALL NOT EXCEPT IN THE CASE OF CROSS OR WILFUL NEGLIGENCE ON OUR PART BE LIABLE OR RESPONSIBLE FOR ANY LOSS, COSTS, DAMAGES OR EXPENSES INCURRED OR SUSTAINED BY ANYONE RESULTING FROM ANY INTERPRETATION MADE BY ANY OF OUR OFFICERS, AGENTS OR EMPLOYEES. THESE INTERPRETATIONS ARE ALSO SUBJECT TO OUR GENERAL TERMS AND CONDITIONS IN OUR PRICE SCHEDULE.



COMPANY	BRINCO COAL MINING CORP.
WELL	92-001
FIELD	QUINSAM
PROVINCE/COUNTY	BRITISH COLUMBIA
COUNTRY/STATE	CANADA





**GAMMA RAY  
DIPMETER  
SLIMLINE UNIT**

LOCATION	CAMPBELL RIVER	OTHER SERVICES	DD1 FE
PRVNC/CO.	BRITISH COLUMBIA		
FIELD	QUINSAM		
WELL	92-003		
COMPANY	BRINCO COAL MINING CORP.		
PROV/NC/COUNTY	BRITISH COLUMBIA		
COUNTRY/STATE	CANADA		
DATE	1-APR-92		
RUN NUMBER	ONE		
DEPTH-DRILLER	63.5 M		
DEPTH-LOGGER	63.2 M		
FIRST READING	63.2 M		
LAST READING	0		
CASING-DRILLER	4.4 M		
CASING-LOGGER	4.4 M		
BIT SIZE	5.5"		
SOLE FLUID TYPE	WATER		
GRMS./VISC.	1.1		
FLUID LOSS	N/A		
EMBLE SOURCE	N/A		
EM @ MEAS. TEMP			
EM @ MEAS. TEMP			
EM @ MEAS. TEMP			
EM @ MEAS. TEMP			
SOURCE REF/FRAC			
WH @ BHT			
TIME SINCE CIRC			
LOG REC TEMP	V223 REDEER		
LOGMENT/BASE	JCV		
RECORDED BY			
INTERESTED BY			

RUN		BOREHOLE RECORD		CASING RECORD			
NUMBER	BIT	FROM	TO	SIZE	WEIGHT	FROM	TO
ONE	5.5"	36.4 M	63.5 M	7"		0	6 M
EQUIPMENT		RUN 1	RUN 2	RUN 3	RUN 4		
DIPMETER		202/204					

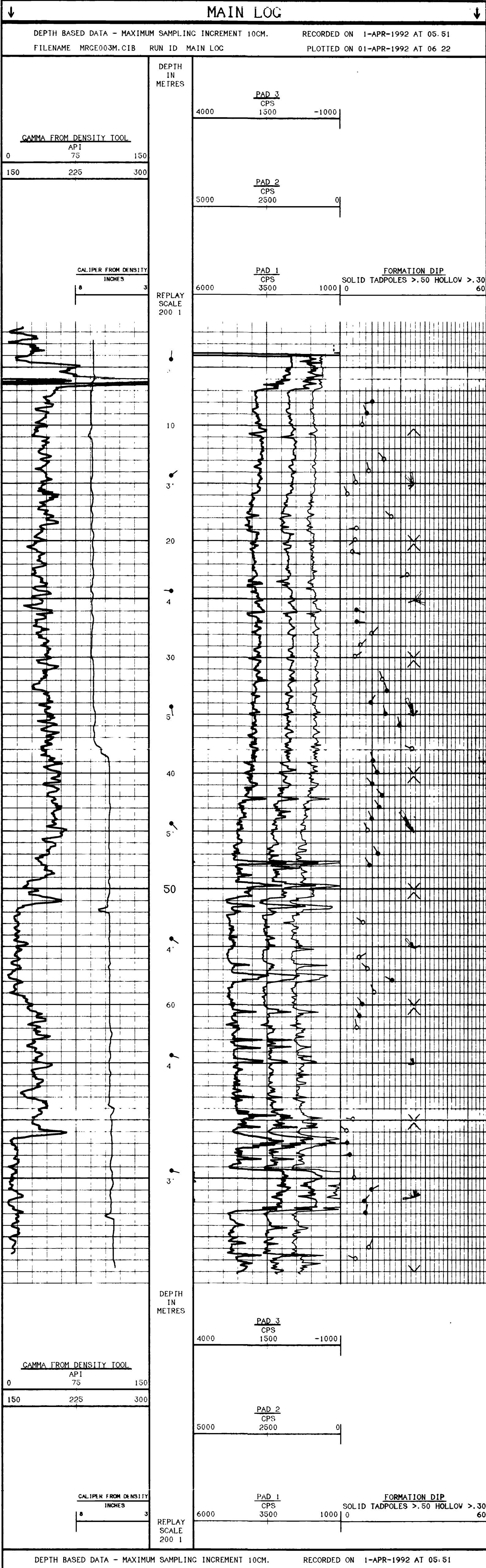
**REMARKS**

GAMMA RAY                      DIPMETER                      SLIMLINE UNIT

N 103 452.167      E 100 052.441

SYSTEM CONFIGURATION DATES    LOGGED                      PROCESSED                      PLOTTED

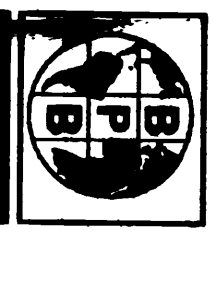
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**MAIN LOG**

COMPANY	BRINCO COAL MINING CORP.
WELL	92-003
FIELD	QUINSAM
PROVINCE/COUNTY	BRITISH COLUMBIA
COUNTRY/STATE	CANADA





**GAMMA RAY  
DIPMETER  
SLIMLINE UNIT**

LOCATION	CAMPBELL RIVER	OTHER SERVICES	DD1 FE
PRVNC/CO.	BRITISH COLUMBIA		
FIELD	QUINSAM		
WELL	92-004		
COMPANY	BRINCO COAL MINING CORP.		
PROVINCE/COUNTY	BRITISH COLUMBIA		
COUNTRY/STATE	CANADA		
DATE	1-APR-92		
PERMANENT DATUM	CL	ELEVATION	311.66 M
LOC MEASURED FROM	CL	ABOVE PERMANENT DATUM	
DRILLING MEASURED FROM	CL	ELEVATIONS	KB CL 311.66 M
RUN NUMBER	ONE		
DEPTH-DRILLER	81.0 M		
DEPTH-LOGGER	81.6 M		
FIRST READING	01.6 M		
LAST READING	0		
CASING-DRILLER	3.8 M		
CASING-LOGGER	4.8 M		
BIT SIZE	5.5"		
HOLE FLUID TYPE	WATER		
DENS./VISC.	1.1		
PH/FLUID LOSS	N/A		
SAMPLE SOURCE	N/A		
RHT @ MEAS TEMP			
RHT @ MEAS TEMP			
RHT @ MEAS TEMP			
SOURCE RHT/RMC			
TIME SINCE CIRC			
MAX REC TEMP			
EQUIPMENT/BASE	V223 READER		
RECORDED BY	JCV		
INTERPRESED BY			

RUN NUMBER	BORHOLE RECORD			CASING RECORD			
	BIT	FROM	TO	SIZE	WEIGHT	FROM	TO
ONE	5.5"	53.3 M	84.0 M	7"		0	3.6 M
EQUIPMENT		RUN 1	RUN 2	RUN 3	RUN 4		
DIPMETER		202/204					

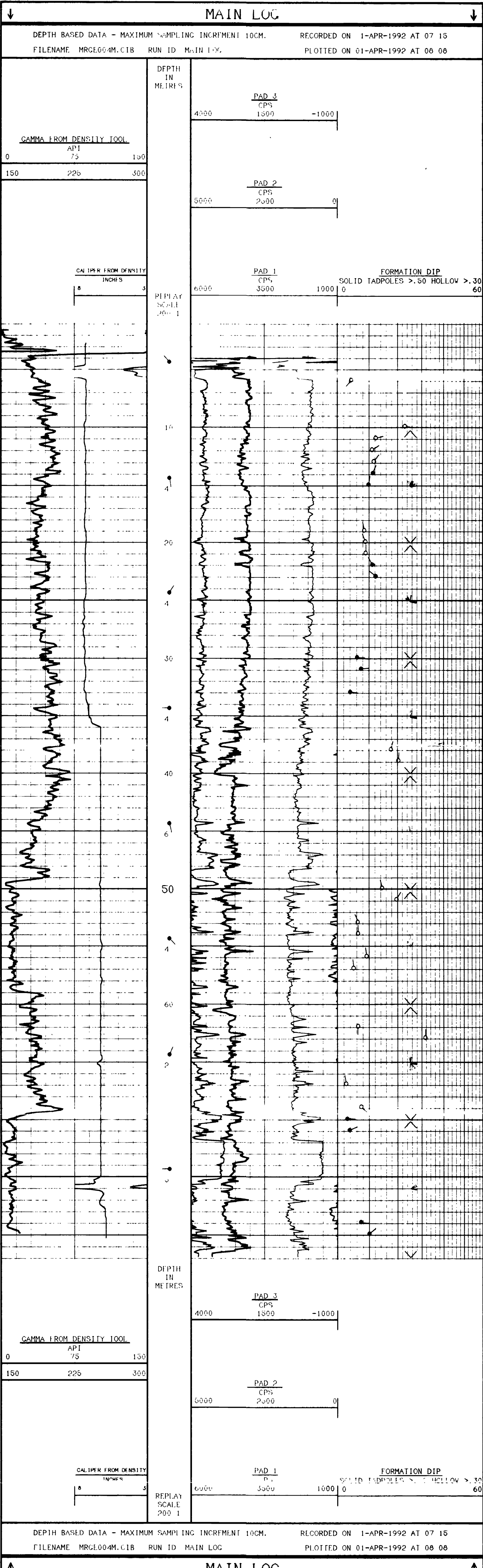
**REMARKS**

GAMMA RAY      DIPMETER      SLIMLINE UNIT

N 103 355.991      F 160 062.72

SYSTEM CONFIGURATION DATES    LOGGED      PROCESSED      PLOTTED

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COMPANY	BRINCO COAL MINING CORP.
WELL	92-004
FIELD	QUINSAM
PROVINCE/COUNTY	BRITISH COLUMBIA
COUNTRY/STATE	CANADA



**GAMMA RAY  
DIPMETER  
SLIMLINE UNIT**

LOCATION	CAMPBELL RIVER	OTHER SERVICES	DD1
PRVNC/CO.	BRITISH COLUMBIA	LOC MEASUREMENT FROM	CL
FIELD	QUINSAM	PERMANENT DATUM	CL
WELL	92-005	LOC MEASUREMENT FROM	CL
COMPANY	BRINCO COAL MINING CORP.	DATE	1-APR-92
PROVINC/COUNTY	BRITISH COLUMBIA	RUN NUMBER	1
COUNTRY/STATE	CANADA	DEPTH-DRILLER	70.4 M
		DEPTH-COCKER	77.2 M
		FIRST READING	0
		LAST READING	5.7 M
		CASING-DRILLER	5.7 M
		CASING-COCKER	5.7 M
		BIT SIZE	5.5"
		SOLE FLUID TYPE	WATER
		BEANS/LUBSC.	1.1
		WELL FLUID LOSS	N/A
		WATER SOURCE	N/A
		WELL HEAD TEMP.	
		WELL @ MEAS TEMP	
		WELL @ MEAS TEMP	
		SOURCE RH/RHMC	
		W @ BIT	
		TIME SINCE CIRC	
		MAX REC TEMP	V225 R DIFF
		OUTLET/BASIS	JCV
		TESTED BY	

RUN NUMBER	BOTH HOLE RECORD		CASING RECORD				
	BIT	FROM	TO	SIZE	WEIGHT	FROM	TO
ONE	5.5"	55.4 M	58.4 M			0	5.7 M

EQUIPMENT	RUN 1	RUN 2	RUN 3	RUN 4
DIPMETER	202/264			

**REMARKS**

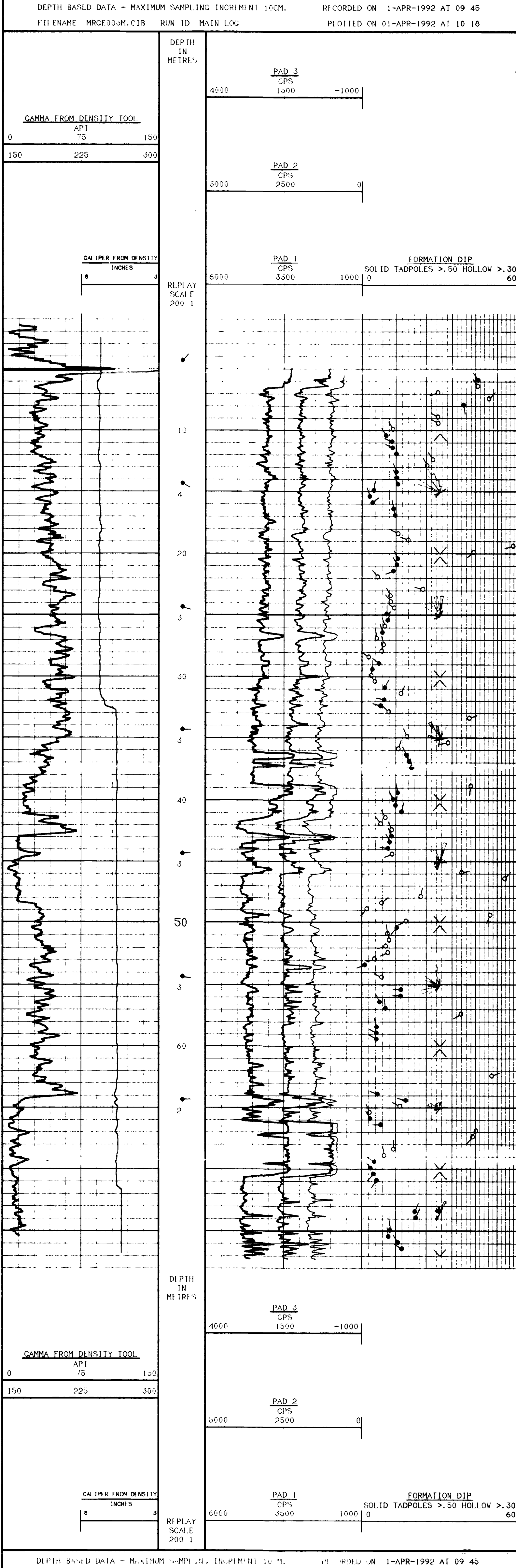
GAMMA RAY      DIPMETER      SLIMLINE UNIT

N 103 277.52      E 99 950.55

SYSTEM CONFIGURATION DATES    LOGGED      PROCESSED      PLOTTED

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**MAIN LOG**



**MAIN LOG**

COMPANY	BRINCO COAL MINING CORP.
WELL	92-005
FIELD	QUINSAM
PROVINCE/COUNTY	BRITISH COLUMBIA
COUNTRY/STATE	CANADA







**GAMMA RAY  
DIPMETER  
SLIMLINE UNIT**

LOCATION	CAMPBELL RIVER	OTHER SERVICES	DDI
PRVNC/CO.	BRITISH COLUMBIA		FF
FIELD	QUINSAM		
WELL	92-007		
COMPANY	BRINCO COAL MINING CORP.		
PROVINCE/COUNTRY	BRITISH COLUMBIA		
COUNTRY/STATE	CANADA		
DATE	1-APR-92		
PERMANENT DATUM	CL	ELEVATION 321.85 M	K8 CL 321.85 M
LOC MEASURED FROM	CL	ABOVE PERMANENT DATUM	
DRILLING MEASURED FROM	CL		
RUN NUMBER	ONE		
DEPTH-DRILLER	78.9 M		
DEPTH-LOGGER	78.8 M		
FIRST READING	78.8 M		
LAST READING	0		
CASING-DRILLER	6.0 M		
CASING-LOGGER	2.3 M		
BIT SIZE	5.5"		
HOLE FLUID TYPE	WATER		
DENS./VISC.	1.1		
PH/FLUID LOSS	N/A		
SAMPLE SOURCE	N/A		
RF @ MEAS TEMP			
RF @ MEAS TEMP			
SOURCE RHF/RHC			
RF @ BHT			
TIME SINCE CIRC			
MAX REC TEMP			
EQUIPMENT/BASE	V223 REDEER		
RECORDED BY	JCV		
WITNESSED BY			

RUN NUMBER	BOREHOLE RECORD			CASING RECORD		
	BIT	FROM	TO	SIZE	WEIGHT	FROM TO
ONE	5.5"	52.9 M	79.9 M	7"		0 6.0 M
EQUIPMENT						
DIPMETER		RUN 1	RUN 2	RUN 3	RUN 4	
		202/204				

**REMARKS**

GAMMA RAY                      DIPMETER                      SLIMLINE UNIT

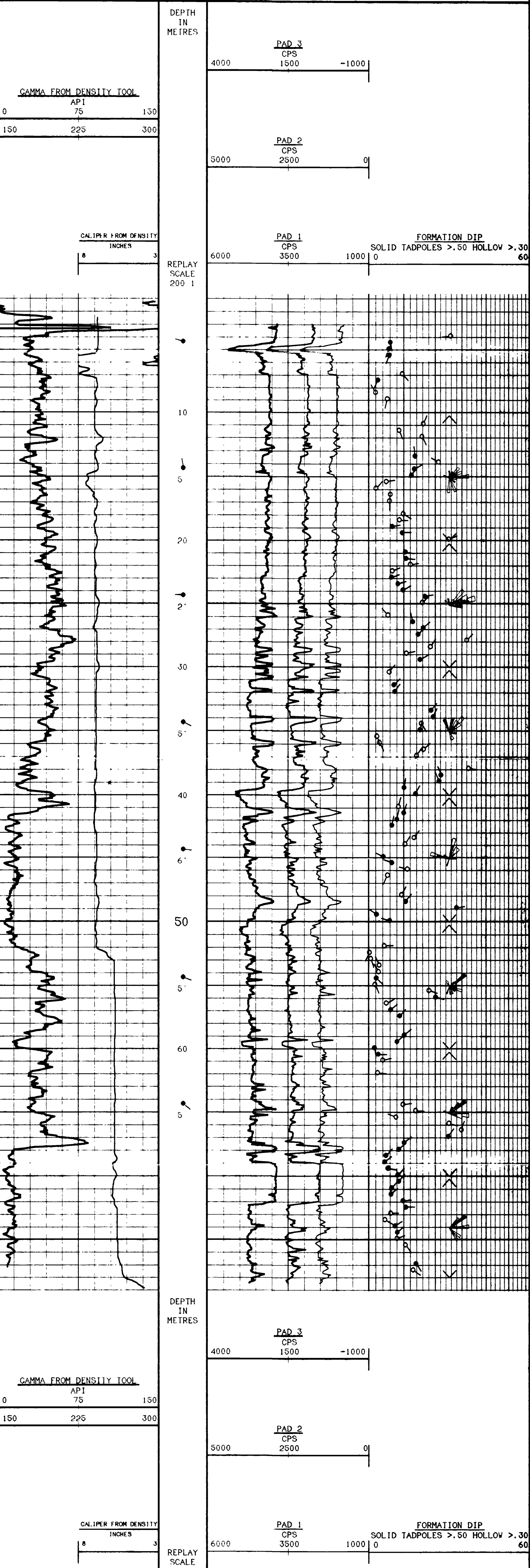
N 102 999.479                      E 99 868.12

SYSTEM CONFIGURATION DATES    LOGGED                      PROCESSED                      PLOTTED

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**MAIN LOG**

DEPTH BASED DATA - MAXIMUM SAMPLING INCREMENT 10CM.                      RECORDED ON 1-APR-1992 AT 11:50  
 FILENAME MRCE007M.CIB                      RUN ID MAIN LOG                      PLOTTED ON 01-APR-1992 AT 12:24



DEPTH BASED DATA - MAXIMUM SAMPLING INCREMENT 10CM.                      RECORDED ON 1-APR-1992 AT 11:50  
 FILENAME MRCE007M.CIB                      RUN ID MAIN LOG                      PLOTTED ON 01-APR-1992 AT 12:24

**MAIN LOG**

COMPANY	BRINCO COAL MINING CORP.
WELL	92-007
FIELD	QUINSAM
PROVINCE/COUNTRY	BRITISH COLUMBIA
COUNTRY/STATE	CANADA



**CAMMA RAY  
DIPMETER  
SLIMLINE UNIT**

LOCATION	CAMPBELL RIVER	OTHER SERVICES	DD1
PRVNC/CO.	BRITISH COLUMBIA		
FIELD	QUINSAM		
WELL	92-008		
COMPANY	BRINCO COAL MINING CORP.		
PROVINCE/COUNTY	BRITISH COLUMBIA		
COUNTRY/STATE	CANADA		
PERMANENT DATUM CL.		ELEVATION 326.56 M	KB CL. 326.56 M
LOC MEASURED FROM CL.		ABOVE PERMANENT DATUM	
DRILLING MEASURED FROM CL.			
DATE	1-APR-92		
RUN NUMBER	ONE		
DEPTH-DRILLER	72.3 M		
DEPTH-LOGGER	72.4 M		
FIRST READING	72.4 M		
LAST READING	0		
CASING-DRILLER	2.0 M		
CASING-LOGGER	2.0 M		
BIT SIZE	5.5"		
HOLE FLUID TYPE	WATER		
DENS. VISC.	1.1		
PH/FLUID LOSS	N/A		
SAMPLE SOURCE	N/A		
RNF @ MEAS TEMP			
RNF @ MEAS TEMP			
SOURCE RNF/TMPC			
RNF @ BIT			
TIME SINCE CIRC			
MAX REC TEMP			
EQUIPMENT/BASE	V223 R DEFR		
RECORDED BY	JCV		
WITNESSED BY			

RUN NUMBER	BOREHOLE RECORD			CASING RECORD			
	BIT	FROM	TO	SIZE	WEIGHT	FROM	TO
ONE	5.5"	56.0 M	72.3 M	7"		0	2.0 M
EQUIPMENT		RUN 1	RUN 2	RUN 3	RUN 4		
DIPMETER		202/204					

**REMARKS**

CAMMA RAY                      DIPMETER                      SLIMLINE UNIT

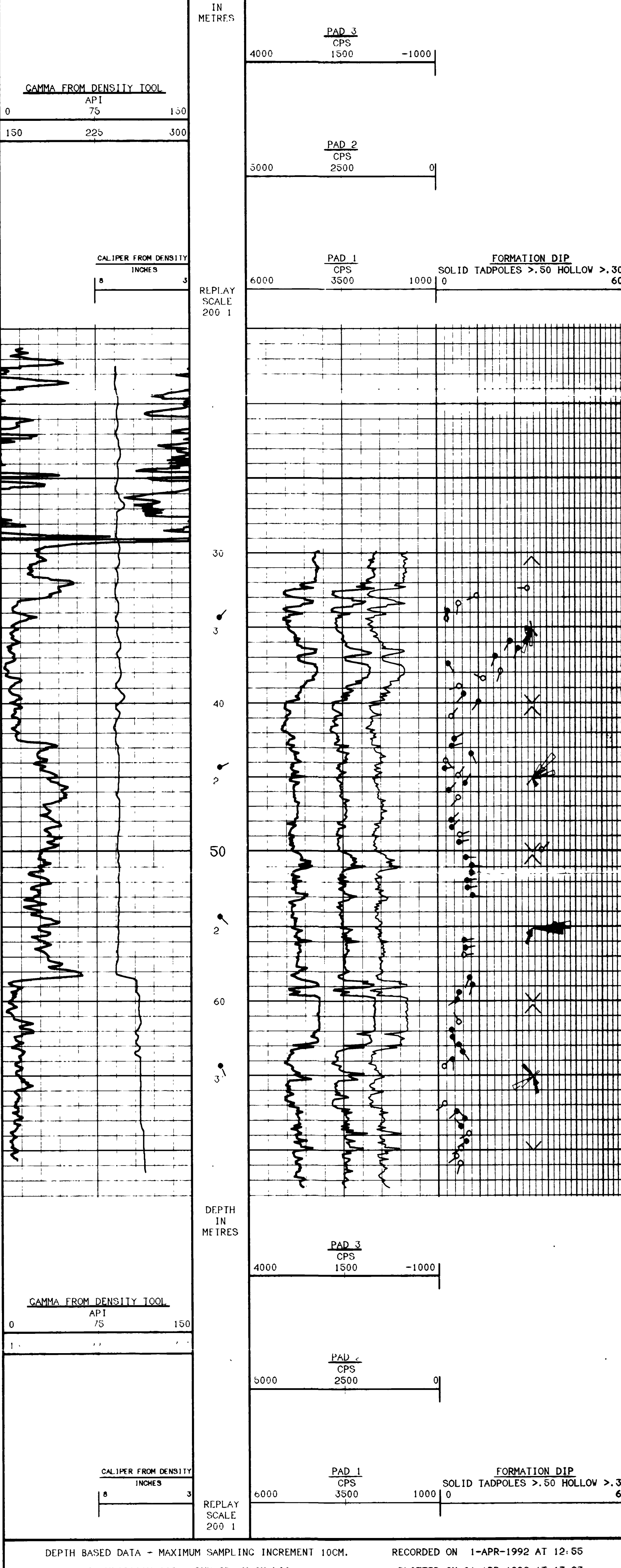
N 103 069.49      E 99 754.46

SYSTEM CONFIGURATION DATES    LOGGED                      PROCESSED                      PLOTTED

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**MAIN LOG**

DEPTH BASED DATA - MAXIMUM SAMPLING INCREMENT 10CM.                      RECORDED ON 1-APR-1992 AT 12:55  
 FILENAME MRCE008M.CIB    RUN ID MAIN LOG                      PLOTTED ON 01-APR-1992 AT 13:23



**MAIN LOG**

COMPANY	BRINCO COAL MINING CORP.
WELL	92-008
FIELD	QUINSAM
PROVINCE/COUNTY	BRITISH COLUMBIA
COUNTRY/STATE	CANADA







**CAMMA RAY  
DIPMETER  
SLIMLINE UNIT**

LOCATION	CAMPBELL RIVER	OTHER SERVICES	DD1
PRVNC/CO.	BRITISH COLUMBIA		
FIELD	QUINSAM		
WELL	92-010		
COMPANY	BRINCO COAL MINING CORP.		
PROVINCE/COUNTY	BRITISH COLUMBIA		
COUNTRY/STATE	CANADA		
DATE	1-APR-92		
PERMANENT DATUM	CL	ELEVATION 310.85 M	
LOC MEASURED FROM	CL	ABOVE PERMANENT DATUM	
DRILLING MEASURED FROM	CL	ELEVATIONS	
		DI CL 310.85 M	
DATE	1-APR-92		
RUN NUMBER	1		
DEPTH-DRILLER	76.7 M		
DEPTH-LOGGER	76.3 M		
FIRST READING	0		
LAST READING	3.5 M		
CASING-DRILLER	3.5 M		
CASING-LOGGER	3.5 M		
BIT SIZE	5.5"		
WELL FLUID TYPE	WATER		
SENS. VISC.	1.1		
H/FLUID LOSS	N/A		
SAMPLE SOURCE			
M @ MEAS TEMP			
M @ MEAS TEMP			
M @ MEAS TEMP			
SOURCE			
M @ BIH			
TIME SINCE CIRC			
AY REC TEMP			
ROTHER/BASE	V223 READER		
RECORDED BY	JCV		
WITNESSED BY			

RUN NUMBER	BIH	FROM	TO	SIZE	WEIGHT	FROM	TO
ONE	3.5"	6.1 M	6. M	7"		0	3.5 M

EQUIPMENT	RUN 1	RUN 2	RUN 3	RUN 4
DIPMETER	202/264			

**REMARKS**

CAMMA RAY                      DIPMETER                      SLIMLINE UNIT

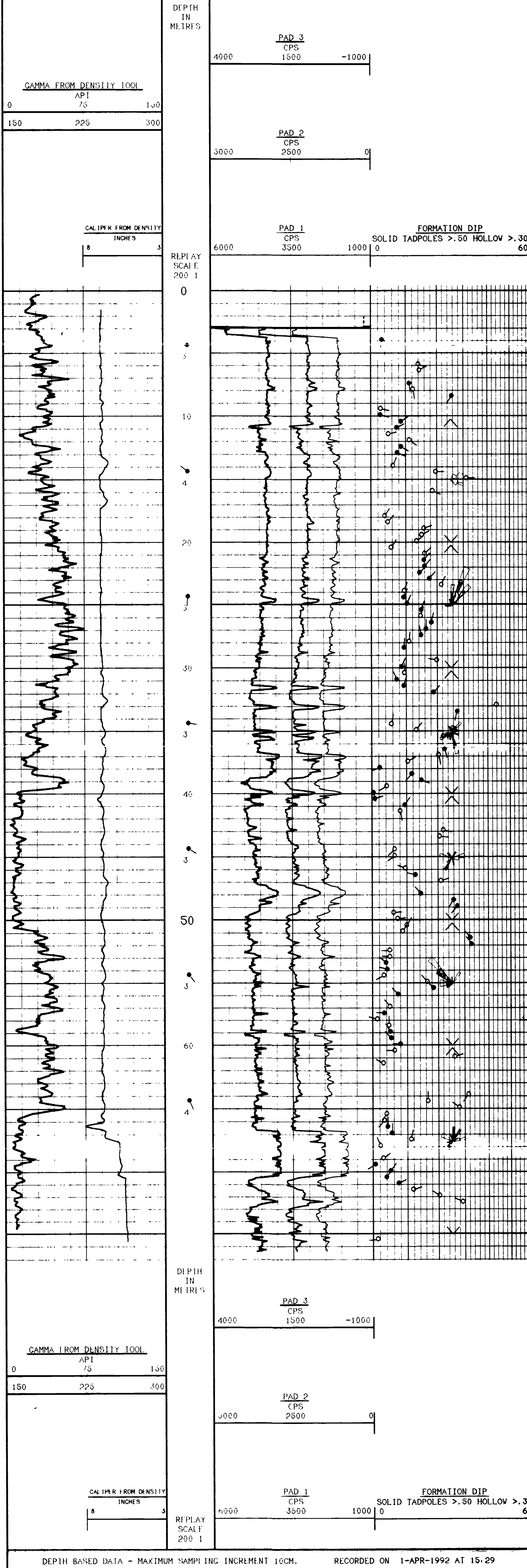
N 103.067.255      F 99.935.30

SYSTEM CONFIGURATION DATES    LOGGED                      PROCESSED                      PLOTTED

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**MAIN LOG**

DEPTH BASED DATA - MAXIMUM SAMPLING INCREMENT 10CM.                      RECORDED ON 1-APR-1992 AT 15:29  
 FILENAME MRCL010M.C1B    RUN ID MAIN LOG                      PLOTTED ON 01-APR-1992 AT 16:05



**MAIN LOG**

COMPANY	BRINCO COAL MINING CORP.
WELL	92-010
FIELD	QUINSAM
PROVINCE/COUNTY	BRITISH COLUMBIA
COUNTRY/STATE	CANADA









**GAMMA RAY  
DIPMETER  
SLIMLINE UNIT**

LOCATION	CAMPBELL RIVER	OTHER SERVICES	
PRVNC/CO.	BRITISH COLUMBIA		
FIELD	QUINSAM		
WELL	92-013		
COMPANY	BRINCO COAL MINING CORP.		
PROVINC/COUNTY	BRITISH COLUMBIA		
COUNTRY/STATE	CANADA		
LOCATION	CAMPBELL RIVER	OTHER SERVICES	
WELL	92-013		
COMPANY	BRINCO COAL MINING CORP.		
PROVINC/COUNTY	BRITISH COLUMBIA		
COUNTRY/STATE	CANADA		
PERMANENT DATUM	CL	ELEVATION	318.52 M
LOG MEASURED FROM	CL	ABOVE PERMANENT DATUM	
DRILLING MEASURED FROM	CL	KS	318.32
DATE	1-APR-92	MS	
RUN NUMBER	001	CI	
DEPTH-DRILLER	106.0 M		
DEPTH-LOGGER	103.0 M		
FIRST READING	103.0 M		
LAST READING	0		
CASING-DRILLER	11.4 M		
CASING-LOGGER	11.4 M		
BIT SIZE	3.3"		
HOLE FLUID TYPE	WATER		
DENS. /VISC.	1.1		
PH/FLUID LOSS	N/A		
SAMPLE SOURCE	N/A		
RH @ MEAS TEMP			
RHC @ MEAS TEMP			
SCORR @ MEAS TEMP			
RM @ BIT			
TIME SINCE CIRC			
MAX REC TEMP			
EQUIPMENT/BASE	V223 REDIEER		
RECORDED BY	JCV		
WITNESSED BY			

RUN NUMBER	BOREHOLE RECORD			CASING RECORD			
	BIT	FROM	TO	SI/F	WEIGHT	FROM	TO
ONE	3.5"	96.6 M	106.0 M	7"		0	11.4 M

EQUIPMENT	RUN 1	RUN 2	RUN 3	RUN 4
DIPMETER	202/204			

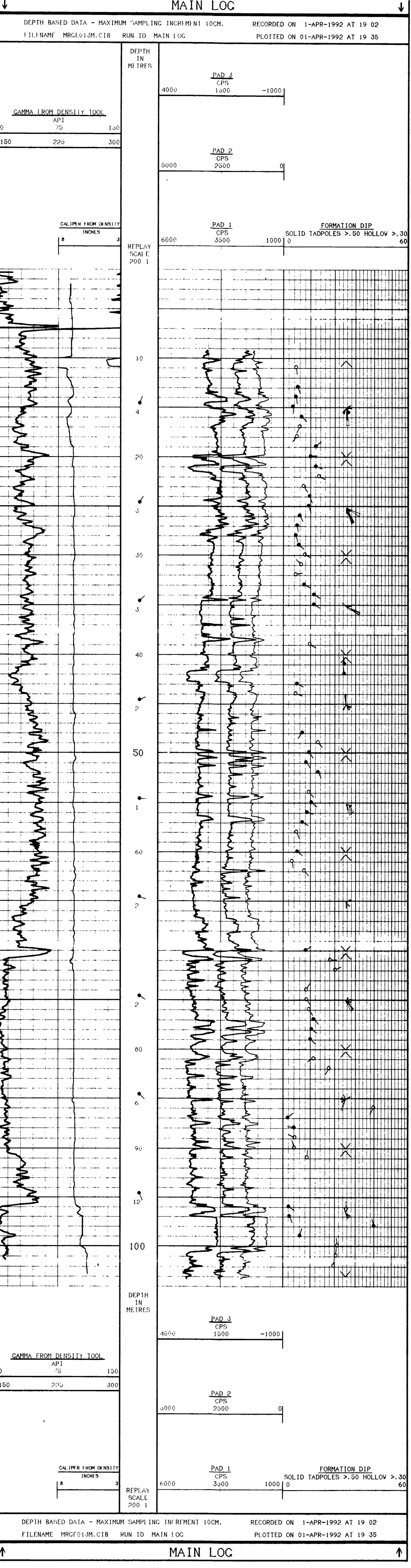
  

REMARKS		
GAMMA RAY	DIPMETER	SLIMLINE UNIT
N 103 305.275 I 100 229.221		

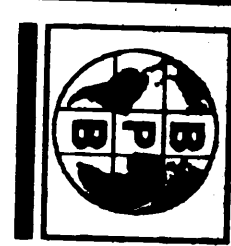
SYSTEM CONFIGURATION DATA	LOGGED	PROCESSED	PLOTTED

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COMPANY	BRINCO COAL MINING CORP.
WELL	92-013
FIELD	QUINSAM
PROVINCE/COUNTY	BRITISH COLUMBIA
COUNTRY/STATE	CANADA





**GAMMA RAY  
DIPMETER  
SLIMLINE UNIT**

LOCATION	CAMPBELL RIVER	OTHER SERVICES	
PRVNC/CO.	BRITISH COLUMBIA		
FIELD	QUINSAM		
WELL	92-017		
COMPANY	BRINCO COAL MINING CORP.		
PROVINCE/COUNTY	BRITISH COLUMBIA		
COUNTRY/STATE	CANADA		
LOCATION	CAMPBELL RIVER	DDI	
LOG MEASURED FROM	CL	FF	
PERMANENT DATUM	CL		
ELEVATION 330.85/			
ABOVE PERMANENT DATUM			
DATE	2-APR-92		
RUN NUMBER	01		
DEPTH-DRILLER	91.2 M		
DEPTH-CORRECT	97.7 M		
TEST READING	0.77 M		
CASING-DRILLER	0		
CASING-CORRECT	2.6 M		
BIT SIZE	5.5"		
HOLE FLUID TYPE	WATER		
DENS./VISC.	1.1		
PH/FUID LOSS	N/A		
SAMPLE SOURCE	N/A		
RH @ MEAS TEMP			
RH @ MEAS TEMP			
SCALING RH/TEMP			
RH @ BIT			
TIME SINCE CLRC			
MAX REC TEMP			
TOOLPRINT/BASE	V223	REDLER	
RECORDED BY	JCV		
WITNESSED BY			

RUN NUMBER	BOREHOLE RECORD			CASING RECORD			
	BIT	FROM	TO	SIZE	WEIGHT	FROM	TO
ONE	5.5"	79.8 M	91.2 M	7"		0	2.6 M
EQUIPMENT		RUN 1	RUN 2	RUN 3	RUN 4		
DIPMETER		262/204					

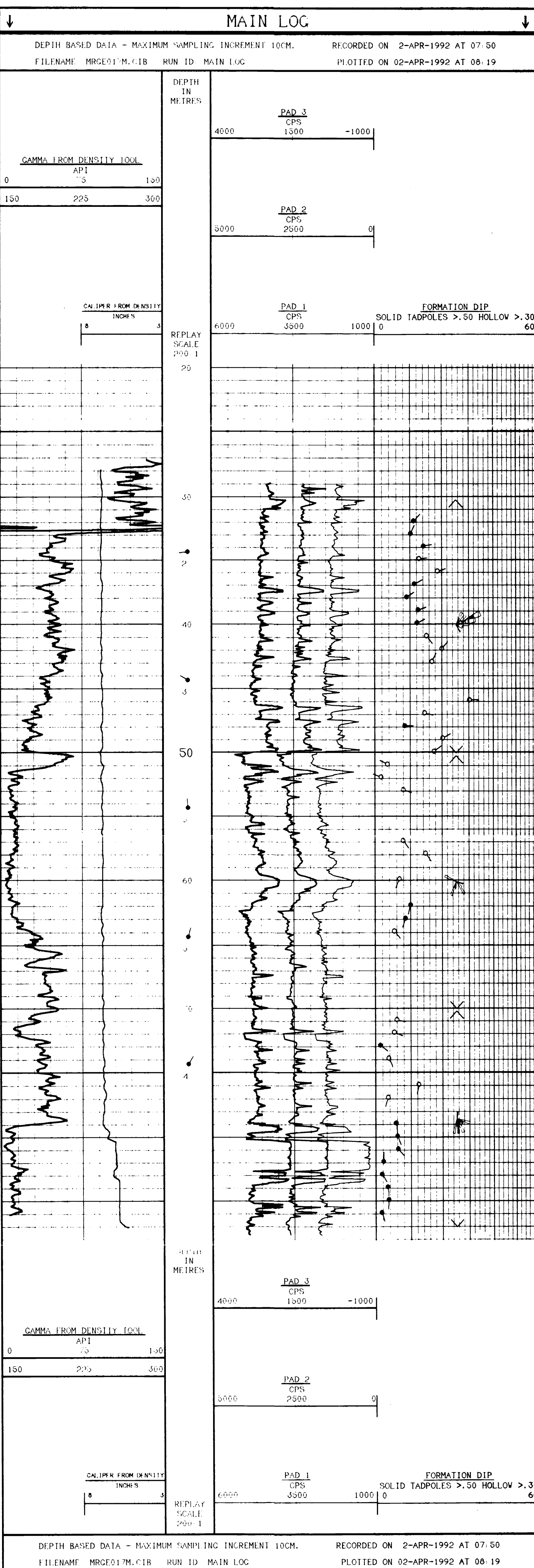
**REMARKS**

GAMMA RAY      DIPMETER      SLIMLINE UNIT

N 102.737.315      E 99.966.329

SYSTEM CONFIGURATION DATES: LOGGED      PROCESSED      PLOTTED

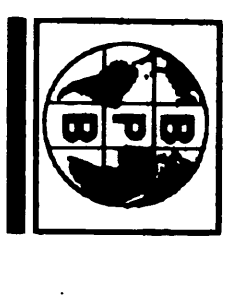
ALL INTERPRETATIONS ARE OPINIONS BASED ON INFERENCE FROM ELECTRICAL OR OTHER MEASUREMENTS AND WE CANNOT AND DO NOT GUARANTEE THE ACCURACY OR CORRECTNESS OF ANY INTERPRETATIONS. AND WE SHALL NOT EXCEPT IN THE CASE OF GROSS OR WILFUL NEGLIGENCE ON OUR PART, BE LIABLE OR RESPONSIBLE FOR ANY LOSS, COSTS, DAMAGES OR EXPENSES INCURRED OR SUSTAINED BY ANYONE RESULTING FROM ANY INTERPRETATION MADE BY ANY OF OUR OFFICERS, AGENTS OR EMPLOYEES. THESE INTERPRETATIONS ARE ALSO SUBJECT TO OUR GENERAL TERMS AND CONDITIONS IN OUR PRICE SCHEDULE.



COMPANY	BRINCO COAL MINING CORP.
WELL	92-017
FIELD	QUINSAM
PROVINCE/COUNTY	BRITISH COLUMBIA
COUNTRY/STATE	CANADA





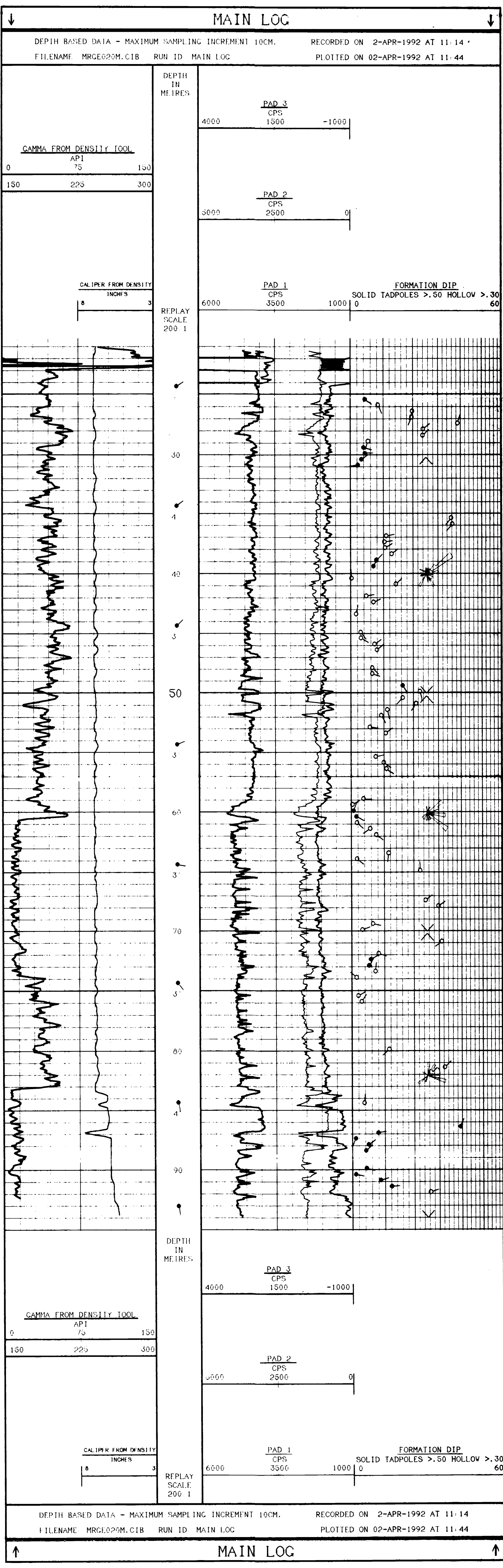


**GAMMA RAY  
DIPMETER  
SLIMLINE UNIT**

LOCATION	CAMPBELL RIVER	PERMANENT DATUM	CL	ELEVATION	292.667 M
PRVNC/CO.	BRITISH COLUMBIA	LOG MEASURED FROM	CL	ABOVE PERMANENT DATUM	
FIELD	QUINSAM	DRILLING MEASURED FROM	CL	ELEVATIONS:	
WELL	92-020	DATE	2-APR-92	K8	CL 292.667 M
COMPANY	BRINCO COAL MINING CORP.	RUN NUMBER	2-APR-92	DD1	
		DEPTH-DRILLER	ONT	FF:	
		DEPTH-LOGGER	93.0 M		
		DEPTH-LOCATOR	94.0 M		
		FIRST READING	94.0 M		
		LAST READING	0		
		CASING-DRILLER	17.7 M		
		CASING-LOCATOR	17.7 M		
		BIT SIZE	5.5"		
		HOLE FLUID TYPE	WATER		
		DENS. A/ISC	1.1		
		PISTON LOSS	N/A		
		SAMPL. E. SOURCE	N/A		
		RHT @ HEADS TEMP			
		RHT @ MENS TEMP			
		RHC @ MENS TEMP			
		SOURCE RHT/RHC			
		RM @ BHI			
		TIME SINCE CIRC			
		MAX REC TEMP			
		EQUIPMENT/BASE	V233 - REITER		
		RECORDED BY	JCC		
		WITNESSED BY			

RUN NUMBER	BOREHOLE RECORD			CASING RECORD			
	BIT	FROM	TO	SIZE	WEIGHT	FROM	TO
ONE	5.5"	83.2 M	93.0 M	7"		0	17.7 M
EQUIPMENT		RUN 1	RUN 2	RUN 3	RUN 4		
DIPMETER		202/204					
<b>REMARKS</b>							
GAMMA RAY		DIPMETER		SLIMLINE UNIT			
N 102.600.331		E 100.000.000		215.646			
SYSTEM CONFIGURATION DATES		LOGGED	PROCESSED	PLOTTED			

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DEPTH BASED DATA - MAXIMUM SAMPLING INCREMENT 10CM. RECORDED ON 2-APR-1992 AT 11:14  
 FILENAME MRCE020M.CIB RUN ID MAIN LOG PLOTTED ON 02-APR-1992 AT 11:44

COMPANY	BRINCO COAL MINING CORP.
WELL	92-020
FIELD	QUINSAM
PROVINCE/COUNTY	BRITISH COLUMBIA
COUNTRY/STATE	CANADA



**GAMMA RAY  
DIPMETER  
SLIMLINE UNIT**

LOCATION	CAMPBELL RIVER	OTHER SERVICES	
PRVNC/CO.	BRITISH COLUMBIA	LOCATION	CAMPBELL RIVER
FIELD	QUINSAM	ESD	
WELL	92-021	SEC	
COMPANY	BRINCO COAL MINING CORP.	TWP	
		RCD	
			OTHER SERVICES
			FF:
			DD1
PERMANENT DATUM	CL	ELEVATION	319.990 M
LOC MEASURED FROM	CL	ABOVE PERMANENT DATUM	
DRILLING MEASURED FROM	CL	ELEVATIONS	
		MS CL	319.990 M
		CL	319.990 M
DATE	2-APR-92		
RUN NUMBER	001		
DEPTH-DRILLER	141.5 M		
DEPTH-COCKER	132.0 M		
FIRST READING	132.0 M		
LAST READING	0		
CASING-DRILLER	26.7 M		
CASING-COCKER	24.0 M		
BIT SIZE	3.5"		
HOLE FLUID TYPE	WATER		
DENS. VISC.	1.1		
PH/FLUID LOSS	N/A		
SAMPLE SOURCE	N/A		
RM @ MEAS TEMP			
RM @ MEAS TEMP			
RM @ MEAS TEMP			
SOURCE			
RM @ BIT			
TIME SINCE CTR			
MAX REC TEMP			
LOGGING/BSH	WZS, RIDLER		
RECORDED BY	JCV		
WITNESSED BY			

BOREHOLE RECORD				CASING RECORD			
RUN NUMBER	BIT	FROM	TO	SIZE	WEIGHT	FROM	TO
001	3.5"	121.3 M	141.5 M	7"		0	26.7 M

EQUIPMENT	RUN 1	RUN 2	RUN 3	RUN 4
DIPMETER	7927964			

**REMARKS**

GAMMA RAY DIPMETER SLIMLINE UNIT

N 103 243.5 0 E 100 452.8 0

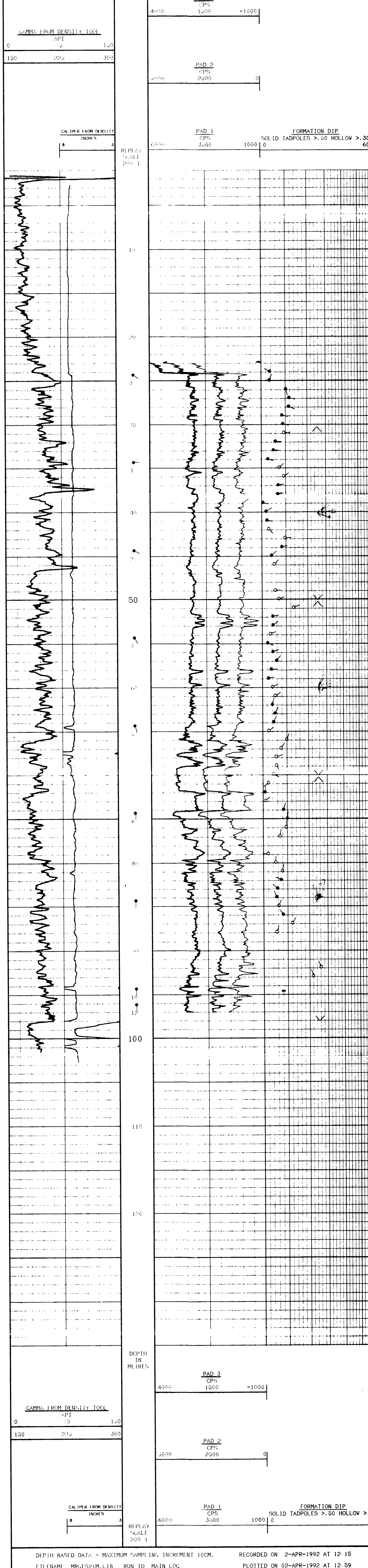
HOLE KEPT FALLING IN AT 90 METERS DUE TO HOLE CONDITIONS NO REPEAT SECTION.

SYSTEM CONFIGURATION DATES LOGGED PROCESSED PLOTTED

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**MAIN LOG**

DEPTH BASED DATA - MAXIMUM SAMPLING INCREMENT 10CM. RECORDED ON 2-APR-1992 AT 12:15  
 FILENAME MRCE02IM.C1B RUN ID MAIN LOG PLOTTED ON 02-APR-1992 AT 12:59

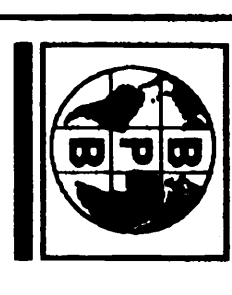


DEPTH BASED DATA - MAXIMUM SAMPLING INCREMENT 10CM. RECORDED ON 2-APR-1992 AT 12:15  
 FILENAME MRCE02IM.C1B RUN ID MAIN LOG PLOTTED ON 02-APR-1992 AT 12:59

**MAIN LOG**

COMPANY	BRINCO COAL MINING CORP.
WELL	92-021
FIELD	QUINSAM
PROVINCE/COUNTY	BRITISH COLUMBIA
COUNTRY/STATE	CANADA





**GAMMA RAY  
DIPMETER  
SLIMLINE UNIT**

LOCATION	CAMPBELL RIVER	PRVNC/CO.	BRITISH COLUMBIA
FIELD	QUINSAM	WELL	92-022
COMPANY	BRINCO COAL MINING CORP.	PROVINCE/COUNTY	BRITISH COLUMBIA
LOCATION	CAMPBELL RIVER	COUNTRY/STATE	CANADA
PERMANENT DATUM	CL	OTHER SURVEYS	H.F. DDI
LOC. MEASURED FROM	CL	ELEVATION - 301.302 M	KL
DRILLING MEASURED FROM	CL	ABOVE PERMANENT DATUM	CL
DATE	2-APR-92	ELEVATIONS	CL
RUN NUMBER	1	CL	301.302 M
DIPH-DRILLER	134.0 M		
DIPH-DOCTR	134.4 M		
FIRST READING	134.0 M		
LAST READING	0		
CASING-DRILLER	6.0 M		
CASING-DOCTR	6.0 M		
BIT SIZE	5.5"		
HOPE FLUID TYPE	WATER		
DENS. VISC.	1.1		
PH/PHD LOSS	N/A		
SAMPLE SOURCE	N/A		
RHF @ MEAS TEMP			
RHF @ MEAS TEMP			
RHF @ MEAS TEMP			
SCALING RHF/RHC			
RH @ BIT			
TIME SINCE CIRC			
MAX REC TEMP			
EQUIPMENT/BASE	V223		
RECORDED BY	JCV		
WITNESSED BY			

BOREHOLE RECORD				CASING RECORD			
RUN NUMBER	BIT	FROM	TO	SIZE	WEIGHT	FROM	TO
ONE	5.5"	6.7 M	134.4 M	7"		0	6.0 M
EQUIPMENT				RUN 1	RUN 2	RUN 3	RUN 4
DIPMETER				202/204			

**REMARKS**

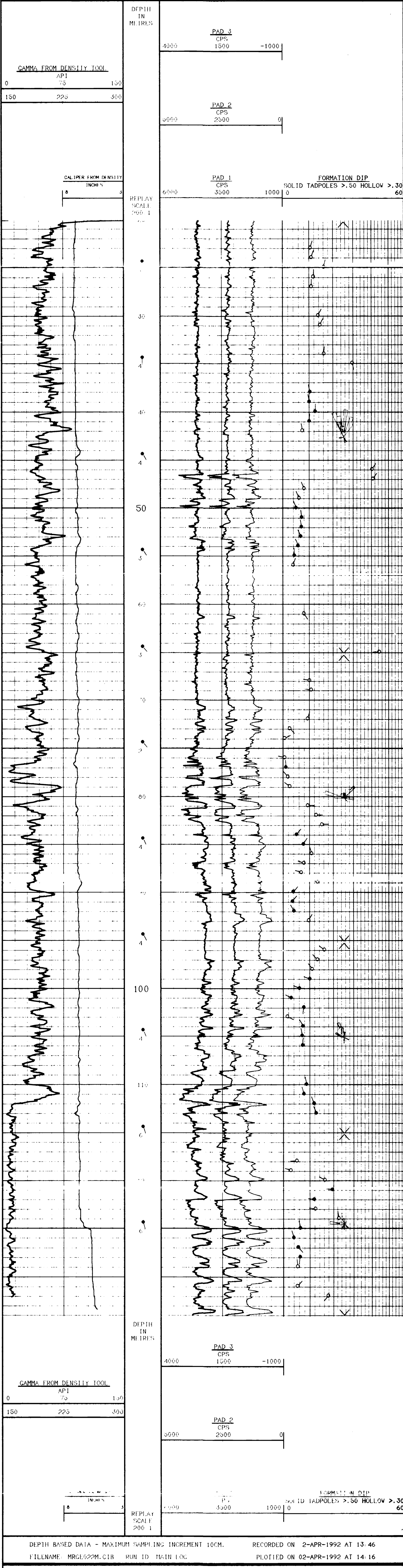
GAMMA RAY                      DIPMETER                      SLIMLINE UNIT

N 102 743.353    E 100 690.600

SYSTEM CONFIGURATION DATES    LOGGED                      PROCESSED                      PLOTTED

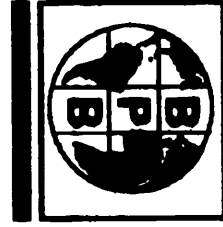
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**MAIN LOG**



COMPANY	BRINCO COAL MINING CORP.
WELL	92-022
FIELD	QUINSAM
PROVINCE/COUNTY	BRITISH COLUMBIA
COUNTRY/STATE	CANADA





**CAMMA RAY  
DIPMETER  
SLIMLINE UNIT**

COMPANY BRINCO COAL MINING CORP.  
WELL 92-024  
FIELD QUINSAM

PROVINCE/COUNTY BRITISH COLUMBIA  
COUNTRY/STATE CANADA

LOCATION CAMPBELL RIVER  
PRVNC/CO. BRITISH COLUMBIA  
FIELD QUINSAM  
WELL 92-024  
COMPANY BRINCO COAL MINING CORP.

LOCATION CAMPBELL RIVER  
PERMANENT DATUM CL  
LOC MEASURED FROM CL  
DRILLING MEASURED FROM CL

DATE 2-APR-92  
RUN NUMBER 016  
DEPTH-DIPMETER 117.6 M  
FIRST READING 0  
LAST READING 6.3 M  
CASTING-LOCATER 5.3 M

LOG FLUID TYPE WATER  
DENS. VISC. 1.1 N/A  
PH/LIQUID LOSS N/A  
SAND/FINE SOURCE  
RHG @ MEAS TEMP  
RHG @ MEAS TEMP  
RHG @ MEAS TEMP  
SOURCE RMT/RMC  
RM @ BIT  
TIME SINCE CLRC  
MAX REC TIME  
EQUIPMENT/ASST  
RECORDED BY JCA  
ATTENDED BY

BOTHOLE RECORD				CASING RECORD			
RUN NUMBER	BIT	FROM	TO	SIZE	WEIGHT	FROM	TO
016	5.3"	94.2 M	116.6 M	7"		0	6.3 M

EQUIPMENT	RUN 1	RUN 2	RUN 3	RUN 4
DIPMETER	2927254			

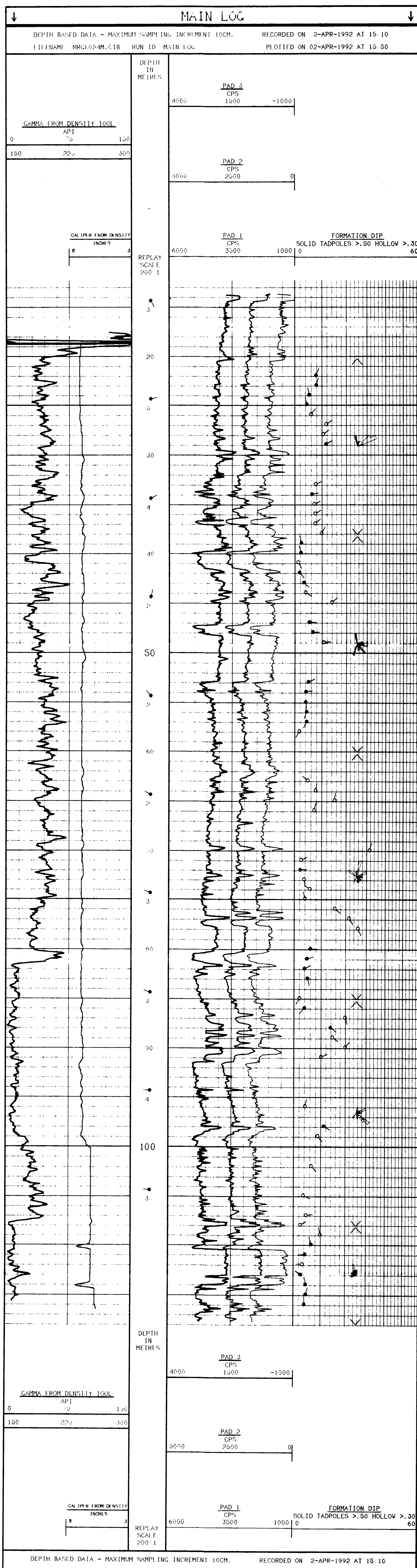
**REMARKS**

CAMMA RAY DIPMETER SLIMLINE UNIT

N 102 982.200 E 100 346.150

SYSTEM CONFIGURATION DATES: LOGGED PROCESSED PLOTTED

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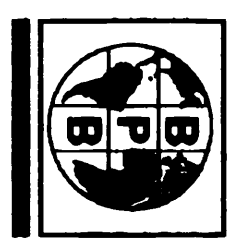


DEPTH BASED DATA - MAXIMUM SAMPLING INCREMENT 10CM. RECORDED ON 2-APR-1992 AT 15:10  
FILENAME: MRCE024M.CIB RUN ID: MAIN LOG PLOTTED ON 02-APR-1992 AT 15:50

**MAIN LOG**

COMPANY	BRINCO COAL MINING CORP.
WELL	92-024
FIELD	QUINSAM
PROVINCE/COUNTY	BRITISH COLUMBIA
COUNTRY/STATE	CANADA





**GAMMA RAY  
DIPMETER  
SLIMLINE UNIT**

COMPANY BRINCO COAL MINING CORP.  
WELL 92-025  
FIELD QUINSAM  
PROVINCE/COUNTY BRITISH COLUMBIA  
COUNTRY/STATE CANADA

LOCATION CAMPBELL RIVER  
PROVINCIAL BRITISH COLUMBIA  
FIELD QUINSAM  
COMPANY BRINCO COAL MINING CORP.  
WELL 92-025  
FIELD QUINSAM  
PROVINCE/COUNTY BRITISH COLUMBIA  
COUNTRY/STATE CANADA

DATE	13-APR-92	LOG NO.	13-APR-92
WELL NUMBER	92-025	LOG NO.	13-APR-92
FIELD	QUINSAM	LOG NO.	13-APR-92
PROVINCE/COUNTY	BRITISH COLUMBIA	LOG NO.	13-APR-92
COUNTRY/STATE	CANADA	LOG NO.	13-APR-92
LOCATION	CAMPBELL RIVER	LOG NO.	13-APR-92
PROVINCIAL	BRITISH COLUMBIA	LOG NO.	13-APR-92
FIELD	QUINSAM	LOG NO.	13-APR-92
COMPANY	BRINCO COAL MINING CORP.	LOG NO.	13-APR-92
WELL	92-025	LOG NO.	13-APR-92
LOG NO.	13-APR-92	LOG NO.	13-APR-92

RUN	BOREHOLE RECORD			CASING RECORD			
NUMBER	BIT	FROM	TO	SIZE	WEIGHT	FROM	TO
ONE	5.5"	118.0 M	136.7 M	7"		0	15.2 M

EQUIPMENT	RUN 1	RUN 2	RUN 3	RUN 4
DIPMETER	252/264			

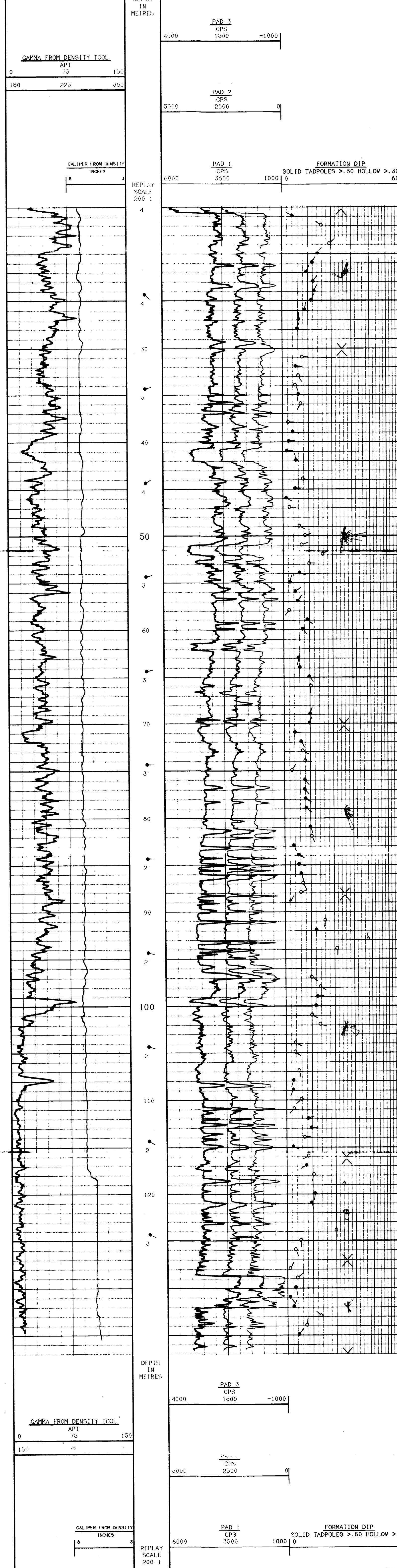
**REMARKS**  
GAMMA RAY  
DIPMETER  
SLIMLINE UNIT

SYSTEM CONFIGURATION DATES: LOGGED PROCESSED PLOTTED

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**MAIN LOG**

DEPTH BASED DATA - MAXIMUM SAMPLING INCREMENT 10CM. RECORDED ON 13-APR-1992 AT 11:04  
FILENAME: MRCE02SM.C1B RUN ID: MAIN LOG PLOTTED ON 13-APR-1992 AT 11:50



DEPTH BASED DATA - MAXIMUM SAMPLING INCREMENT 10CM. RECORDED ON 13-APR-1992 AT 11:04  
FILENAME: MRCE02SM.C1B RUN ID: MAIN LOG PLOTTED ON 13-APR-1992 AT 11:50

**MAIN LOG**

COMPANY	BRINCO COAL MINING CORP.
WELL	92-025
FIELD	QUINSAM
PROVINCE/COUNTY	BRITISH COLUMBIA
COUNTRY/STATE	CANADA



**GAMMA RAY**  
**FOCUSS ELECTRIC**  
**SLIMLINE UNIT**

COMPANY BRINCO COAL MINING CORP.  
 WELL 92-001  
 FIELD QUINSAM  
 PROVINCE/COUNTY BRITISH COLUMBIA  
 COUNTRY/STATE CANADA

LOCATION CAMPBELL RIVER  
 PRVNC/CO. BRITISH COLUMBIA  
 FIELD QUINSAM  
 VELL 92-001  
 COMPANY BRINCO COAL MINING CORP.

PERMANENT DATUM G.L.  
 LOG MEASURED FROM G.L.  
 DRILLING MEASURED FROM G.L.  
 DATE 31-MAR-92  
 RUN NUMBER 01  
 DEPTH-DRILLER 70.0 M  
 DEPTH-LOGGER 70.0 M  
 FIRST READING 0  
 LAST READING 0  
 CASTING-BRITTLER 4.4 M  
 CASTING-LOGGER 4.4 M  
 BIT SIZE 5.5"

OTHER SERVICES  
 DIAPHRHR  
 DDI

PREPARED BY  
 LOG MEASURED FROM G.L.  
 DRILLING MEASURED FROM G.L.  
 DATE 31-MAR-92  
 RUN NUMBER 01  
 DEPTH-DRILLER 70.0 M  
 DEPTH-LOGGER 70.0 M  
 FIRST READING 0  
 LAST READING 0  
 CASTING-BRITTLER 4.4 M  
 CASTING-LOGGER 4.4 M  
 BIT SIZE 5.5"

RUN NUMBER	BOREHOLE RECORD	CASING RECORD
ONE	BIT FROM TO	SIZE WEIGHT FROM TO
ONE	5.5" 50.0 M 70.0 M	7" 0 4.4 M

EQUIPMENT	RUN 1	RUN 2	RUN 3	RUN 4
FE				

**REMARKS**

GAMMA RAY FOCUSS ELECTRIC SLIMLINE UNIT

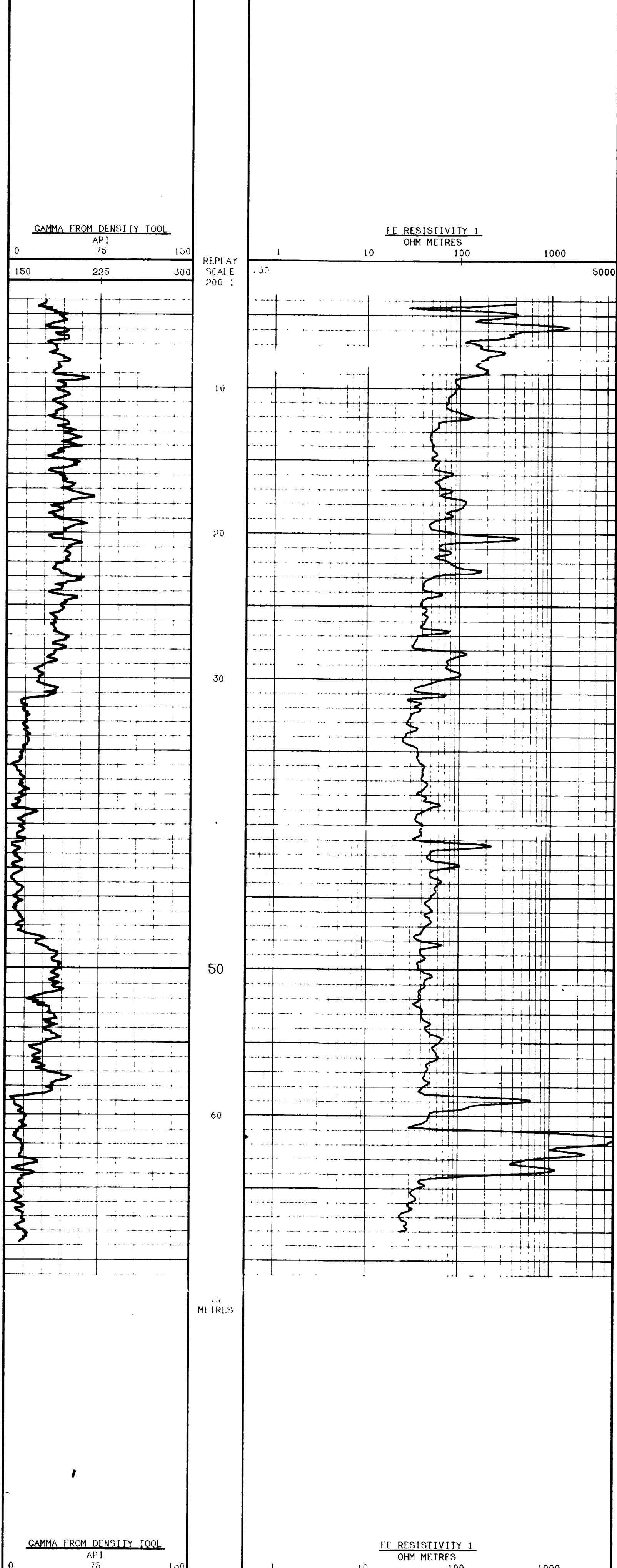
N 103 026.20 L 99 003.53

SYSTEM CONFIGURATION DATES LOGGED PROCESSED PLOTTED

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**MAIN LOG**

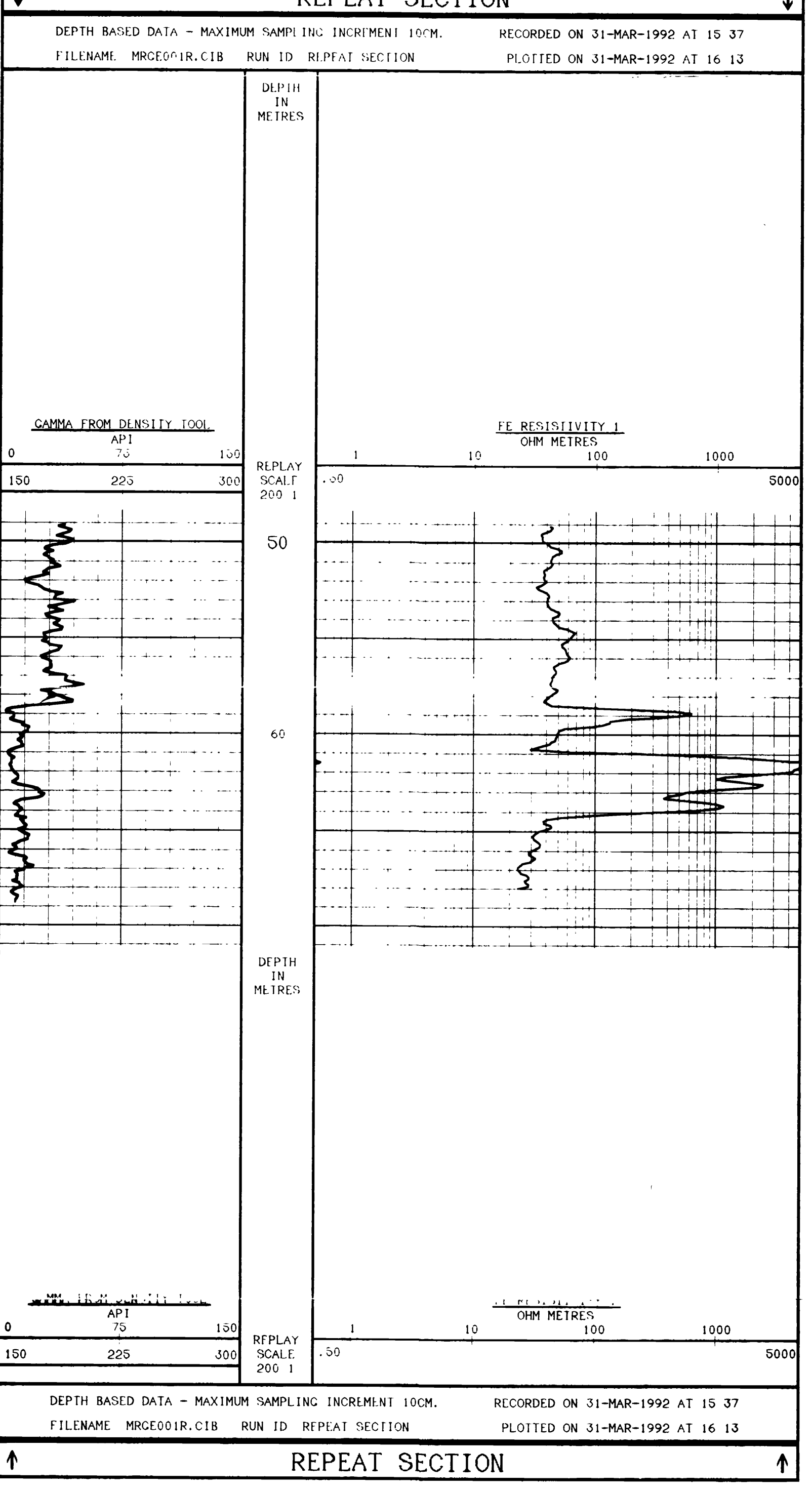
DEPTH BASED DATA - MAXIMUM SAMPLING INCREMENT 10CM. RECORDED ON 31-MAR-1992 AT 15 39  
 FILENAME MRCE001M.CIB RUN ID MAIN LOG PLOTTED ON 31-MAR-1992 AT 16 13



DEPTH BASED DATA - MAXIMUM SAMPLING INCREMENT 10CM. RECORDED ON 31-MAR-1992 AT 15 39  
 FILENAME MRCE001M.CIB RUN ID MAIN LOG PLOTTED ON 31-MAR-1992 AT 16 13

**REPEAT SECTION**

DEPTH BASED DATA - MAXIMUM SAMPLING INCREMENT 10CM. RECORDED ON 31-MAR-1992 AT 15 37  
 FILENAME MRCE001R.CIB RUN ID REPEAT SECTION PLOTTED ON 31-MAR-1992 AT 16 13



DEPTH BASED DATA - MAXIMUM SAMPLING INCREMENT 10CM. RECORDED ON 31-MAR-1992 AT 15 37  
 FILENAME MRCE001R.CIB RUN ID REPEAT SECTION PLOTTED ON 31-MAR-1992 AT 16 13

COMPANY BRINCO COAL MINING CORP.  
 WELL 92-001  
 FIELD QUINSAM  
 PROVINCE/COUNTY BRITISH COLUMBIA  
 COUNTRY/STATE CANADA







**GAMMA RAY**  
**FOCUSS ELECTRIC**  
**SLIMLINE UNIT**

COMPANY BRINCO COAL MINING CORP.  
 WELL 92-003  
 FIELD QUINSAM  
 PROVINCE/COUNTY BRITISH COLUMBIA  
 COUNTRY/STATE CANADA

LOCATION CAMPBELL RIVER  
 PRVNC/CO. BRITISH COLUMBIA  
 FIELD QUINSAM  
 WELL 92-003  
 COMPANY BRINCO COAL MINING CORP.

PERMANENT DATUM CL. ELEVATION 313.60 M  
 LOC MEASURED FROM CL. ABOVE PERMANENT DATUM  
 DRILLING MEASURED FROM CL. ELEVATIONS: K8 CL. 313.60 M

DATE 1-APR-92  
 RUN NUMBER ONE  
 DEPTH-DRILLER 63.5 M  
 DEPTH-LOGGER 63.2 M  
 FIRST READING 0  
 LAST READING 0  
 CASING-DRILLER 4.4 M  
 CASING-LOGGER 4.4 M  
 BIT SIZE 5.5"

PH/FLUID LOSS N/A  
 SAMPLE SOURCE N/A  
 RNF @ NEAS TEMP  
 RMC @ NEAS TEMP  
 SOURCE RNF/RMC  
 RNF @ BIT  
 TIME SINCE CIRC  
 MAX REC TEMP  
 EQUIPMENT/BASE V233 REIDER  
 RECORDED BY JCV  
 WITNESSED BY

OTHER SERVICES:  
 DD1

RUN NUMBER	BOREHOLE RECORD			SIZE	CASING RECORD		
	BIT	FROM	TO		WEIGHT	FROM	TO
ONE	5.5"	39.4 M	63.5 M	7"		0	6 M

EQUIPMENT	RUN 1	RUN 2	RUN 3	RUN 4
FE				

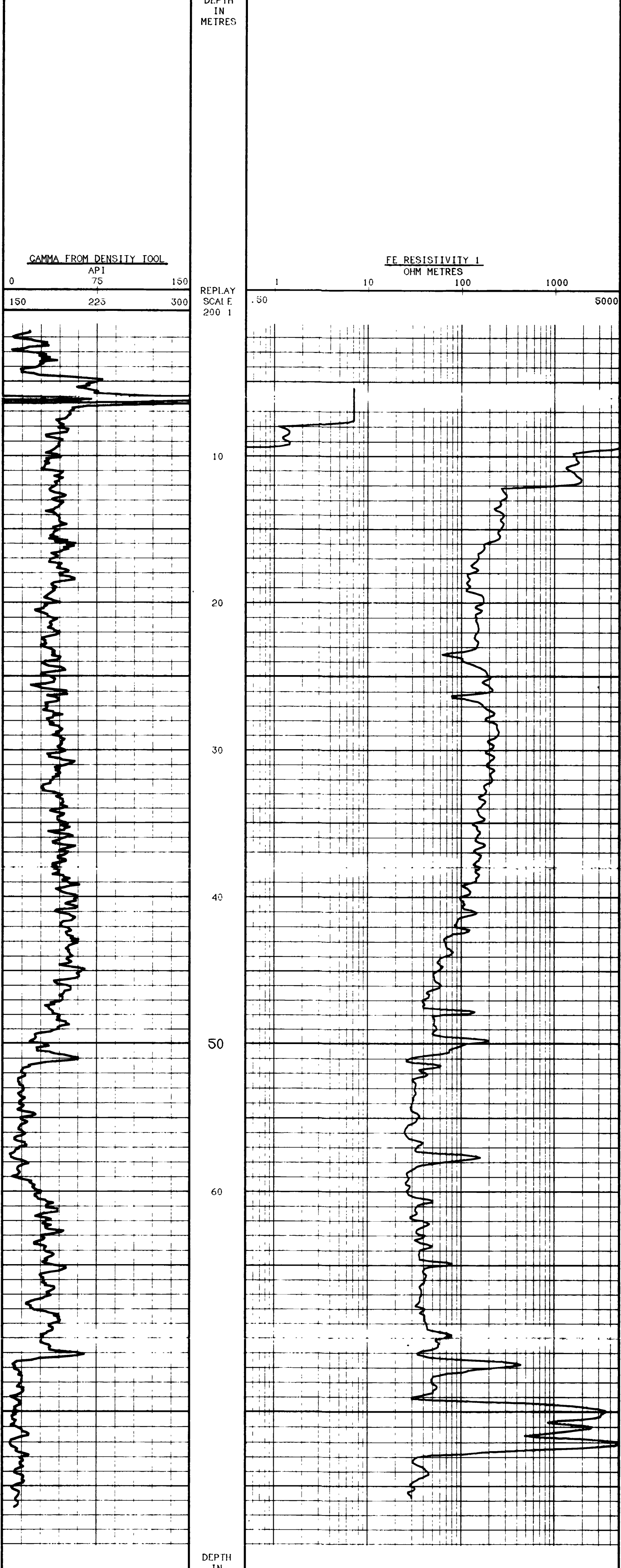
**REMARKS**  
 GAMMA RAY FOCUSS ELECTRIC SLIMLINE UNIT  
 N 103 452.167 E 100 052.441

SYSTEM CONFIGURATION DATES LOGGED PROCESSED PLOTTED

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**MAIN LOG**

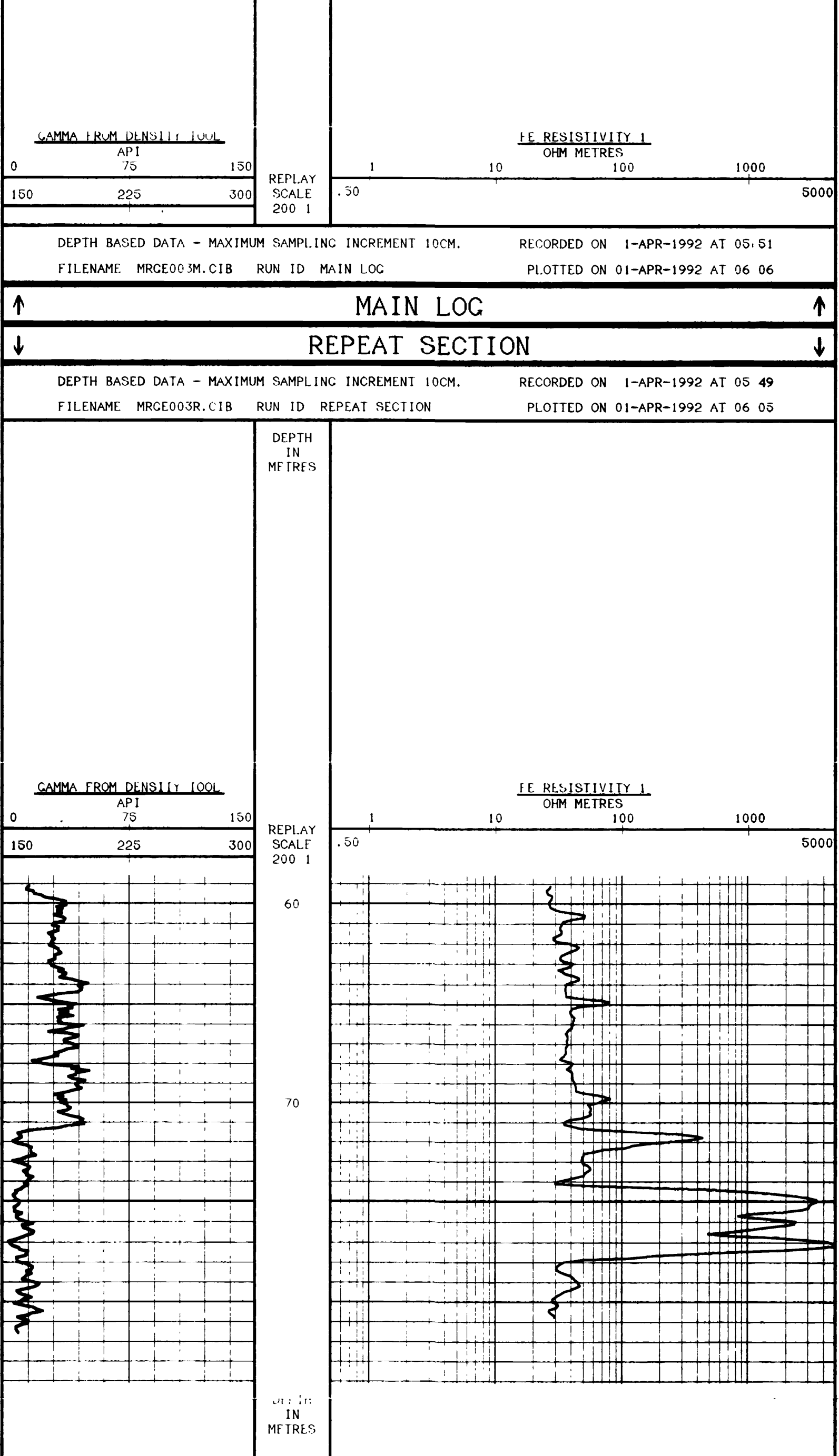
DEPTH BASED DATA - MAXIMUM SAMPLING INCREMENT 10CM. RECORDED ON 1-APR-1992 AT 05 51  
 FILENAME MRCE003M.CIB RUN ID MAIN LOG PLOTTED ON 01-APR-1992 AT 06 06



DEPTH BASED DATA - MAXIMUM SAMPLING INCREMENT 10CM. RECORDED ON 1-APR-1992 AT 05 51  
 FILENAME MRCE003M.CIB RUN ID MAIN LOG PLOTTED ON 01-APR-1992 AT 06 06

**REPEAT SECTION**

DEPTH BASED DATA - MAXIMUM SAMPLING INCREMENT 10CM. RECORDED ON 1-APR-1992 AT 05 49  
 FILENAME MRCE003R.CIB RUN ID REPEAT SECTION PLOTTED ON 01-APR-1992 AT 06 05



DEPTH BASED DATA - MAXIMUM SAMPLING INCREMENT 10CM. RECORDED ON 1-APR-1992 AT 05 49  
 FILENAME MRCE003R.CIB RUN ID REPEAT SECTION PLOTTED ON 01-APR-1992 AT 06 05

**REPEAT SECTION**

DEPTH BASED DATA - MAXIMUM SAMPLING INCREMENT 10CM. RECORDED ON 1-APR-1992 AT 05 49  
 FILENAME MRCE003R.CIB RUN ID REPEAT SECTION PLOTTED ON 01-APR-1992 AT 06 05

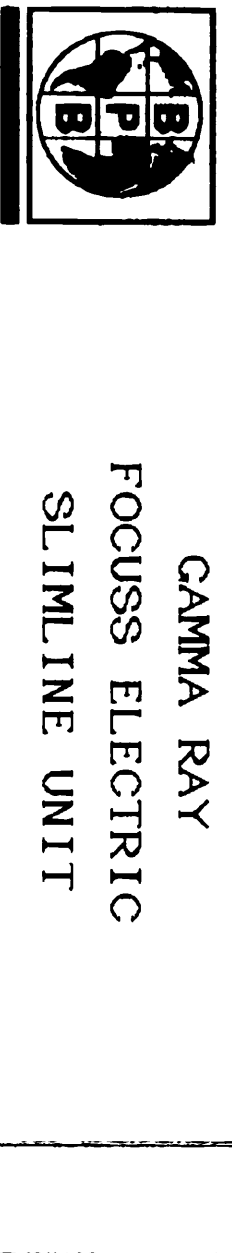
**REPEAT SECTION**

DEPTH BASED DATA - MAXIMUM SAMPLING INCREMENT 10CM. RECORDED ON 1-APR-1992 AT 05 49  
 FILENAME MRCE003R.CIB RUN ID REPEAT SECTION PLOTTED ON 01-APR-1992 AT 06 05

**REPEAT SECTION**

DEPTH BASED DATA - MAXIMUM SAMPLING INCREMENT 10CM. RECORDED ON 1-APR-1992 AT 05 49  
 FILENAME MRCE003R.CIB RUN ID REPEAT SECTION PLOTTED ON 01-APR-1992 AT 06 05

COMPANY BRINCO COAL MINING CORP.  
 WELL 92-003  
 FIELD QUINSAM  
 PROVINCE/COUNTY BRITISH COLUMBIA  
 COUNTRY/STATE CANADA



**GAMMA RAY**  
**FOCUSS ELECTRIC**  
**SLIMLINE UNIT**

LOCATION CAMPBELL RIVER  
 PRVNC/CO. BRITISH COLUMBIA  
 FIELD QUINSAM  
 WELL 92-004  
 COMPANY BRINCO COAL MINING CORP.  
 PROVINCE/COUNTY BRITISH COLUMBIA  
 COUNTRY/STATE CANADA

BRINCO COAL MINING CORP.  
 LOCATION CAMPBELL RIVER  
 LBD SEC FWP REC  
 OTHER SERVICES:  
 DIRMER  
 DDI

PERMANENT DATUM CL ELEVATION 511.66 M  
 LOC MEASURED FROM CL  
 DRILLING MEASURED FROM CL  
 DATE 1-APR-92  
 RIN NUMBER 00F  
 DEPTH-DRILLER 64.0 M  
 DEPTH-LOGGER 61.6 M  
 FIRST READING 0  
 LAST READING 0  
 CASING-DRILLER 3.6 M  
 CASING-LOGGER 4.6 M  
 BIT SIZE 5.8"

HOLE FLUID TYPE WATER  
 DENS./VISC. 1.1  
 PRT/FLUID LOSS N/A  
 SAMPLE SOURCE N/A  
 RNF @ HEAS TEMP  
 RNF @ HEAS TEMP  
 SOURCE RNF/RMC  
 RNF @ HIT  
 TIME SINCE CIRC  
 MAX REC TEMP  
 EQUIPMENT/BASE  
 RECORDED BY VZS REDER  
 WITNESSED BY JCV

RUN NUMBER	BORIHOLF RECORD			CASING RECORD			
	BII	FROM	TO	SIZE	WIGHT	FROM	TO
ONE	5.5"	35.0 M	64.0 M	7"		0	3.6 M

EQUIPMENT	RUN 1	RUN 2	RUN 3	RUN 4
FE				

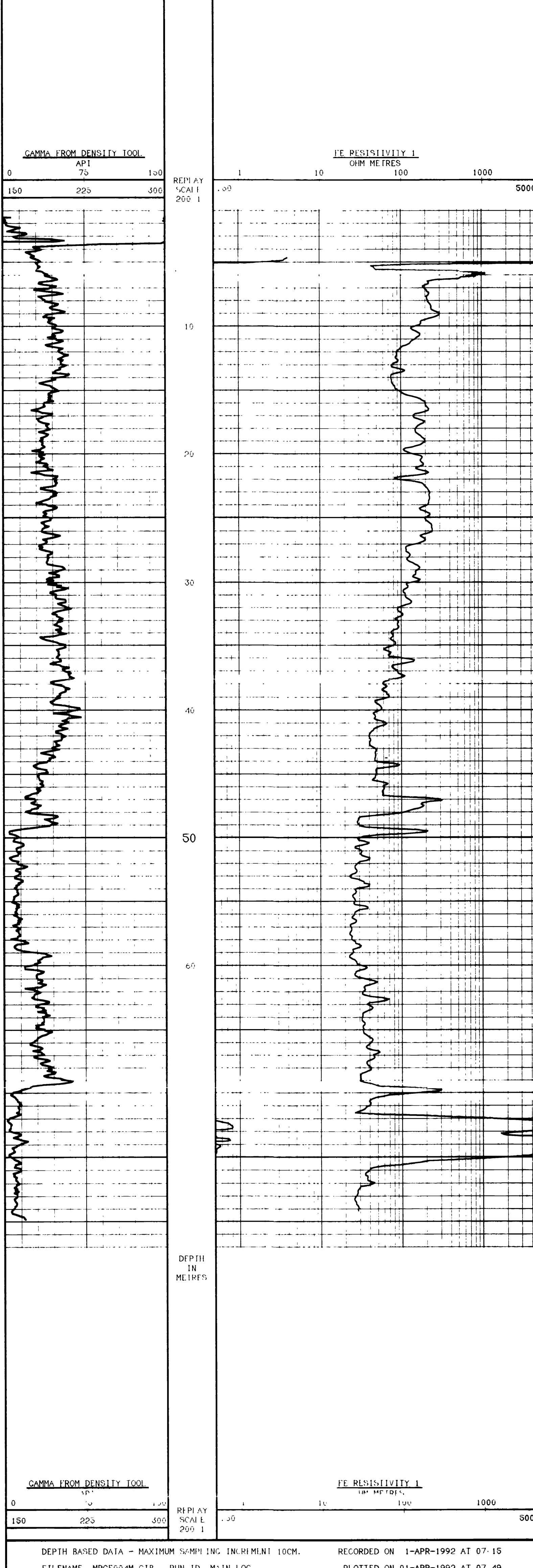
REMARKS  
 GAMMA RAY FOCUSS ELECTRIC SLIMLINE UNIT  
 N 103 355.991 1 100 002.72

SYSTEM CONFIGURATION DATA LOGGED PROCESSED PLOTTED

ALL INTERPRETATIONS ARE OPINIONS BASED ON INFERENCE FROM ELECTRICAL OR OTHER MEASUREMENTS AND WE CANNOT AND DO NOT GUARANTEE THE ACCURACY OR CORRECTNESS OF ANY INTERPRETATIONS AND WE SHALL NOT EXCEPT IN THE CASE OF GROSS OR WILFUL NEGLIGENCE ON OUR PART BE LIABLE OR RESPONSIBLE FOR ANY LOSS, COSTS, DAMAGES OR EXPENSES INCURRED OR SUSTAINED BY ANYONE RESULTING FROM ANY INTERPRETATION MADE BY ANY OF OUR OFFICERS, AGENTS OR EMPLOYEES. THESE INTERPRETATIONS ARE ALSO SUBJECT TO OUR GENERAL TERMS AND CONDITIONS IN OUR PRICE SCHEDULE.

**MAIN LOG**

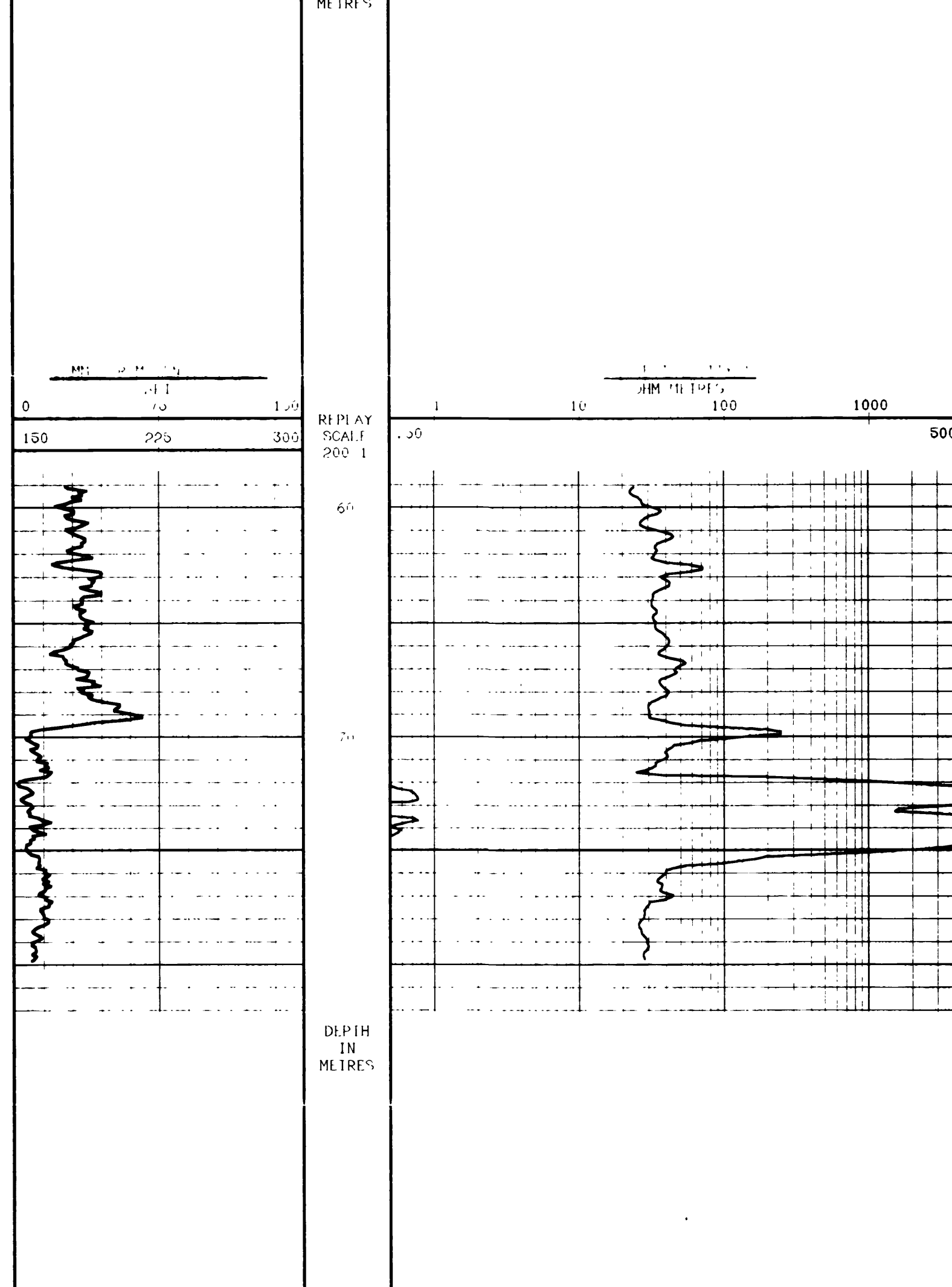
DEPTH BASED DATA - MAXIMUM SAMPLING INCREMENT 10CM. RECORDED ON 1-APR-1992 AT 07 15  
 FILENAME MRCE004M.CIB RUN ID MAIN LOG PLOTTED ON 01-APR-1992 AT 07 49



DEPTH BASED DATA - MAXIMUM SAMPLING INCREMENT 10CM. RECORDED ON 1-APR-1992 AT 07 15  
 FILENAME MRCE004M.CIB RUN ID MAIN LOG PLOTTED ON 01-APR-1992 AT 07 49

**REPEAT SECTION**

DEPTH BASED DATA - MAXIMUM SAMPLING INCREMENT 10CM. RECORDED ON 1-APR-1992 AT 07 10  
 FILENAME MRCE004R.CIB RUN ID REPEAT SECTION PLOTTED ON 01-APR-1992 AT 07 49



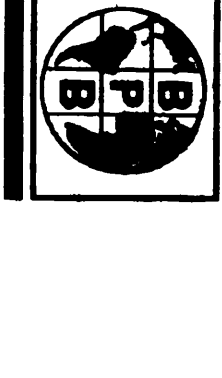
DEPTH BASED DATA - MAXIMUM SAMPLING INCREMENT 10CM. RECORDED ON 1-APR-1992 AT 07 10  
 FILENAME MRCE004R.CIB RUN ID REPEAT SECTION PLOTTED ON 01-APR-1992 AT 07 49

**REPEAT SECTION**

COMPANY	BRINCO COAL MINING CORP.
WELL	92-004
FIELD	QUINSAM
PROVINCE/COUNTY	BRITISH COLUMBIA
COUNTRY/STATE	CANADA







**GAMMA RAY**  
**FOCUSS ELECTRIC**  
**SLIMLINE UNIT**

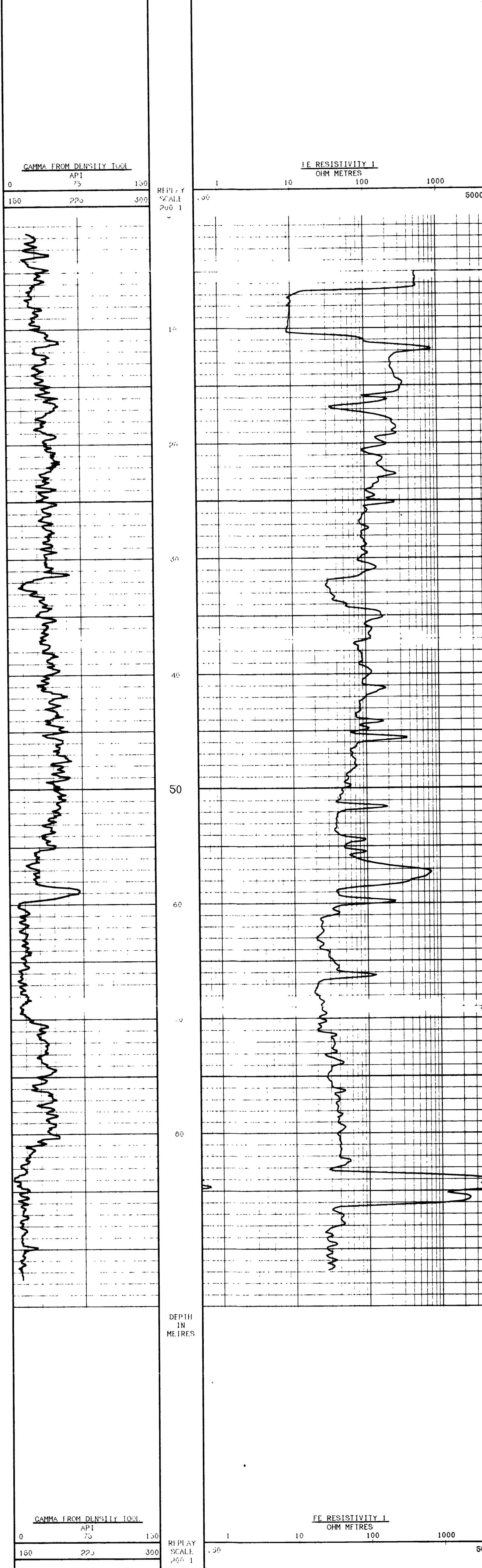
LOCATION	CAMPBELL RIVER	OTHER SERVICES	
PRVNC/CO.	BRITISH COLUMBIA		
FIELD	QUINSAM		
WELL	92-006		
COMPANY	BRINCO COAL MINING CORP.		
PROVINCE/COUNTY	BRITISH COLUMBIA		
COUNTRY/STATE	CANADA		
LOCATION	CAMPBELL RIVER		
ESP			
SFC			
TOP			
ROI			
DIAMETER	101		
PERMANENT DATUM	CI	ELEVATION	302.31 M
LOC MEASURED FROM	CI	ABOVE PERMANENT DATUM	CI
DRILLING MEASURED FROM	CI	ELEVATIONS	CI
RUN NUMBER	1-200-92		
DEPTH-DEPTER	94.0 M		
DEPTH-LOCATOR	94.0 M		
FIRST READING	94.0 M		
LAST READING	94.0 M		
CASING-DEPTER	10.0 M		
CASING-LOCATOR	10.0 M		
BIT SIZE	10.5 M		
NO. FLUID TYPE	WATER		
DATE TEST	1.1		
PIVOTAL POINT	N/A		
SAMPLE SOURCE			
REF @ MEAS TIME			
REF @ MEAS TIME			
SCIENCE REF/IRAC			
REF @ MEAS TIME			
REF @ MEAS TIME			
TIME SINCE CIRC			
MAX REC TEMP	123.5 R DEER		
EQUIPMENT/BASE	40V		
RECORDED BY			
WITNESSED BY			

RUN NUMBER	BOREHOLE RECORD			CASING RECORD		
	BIT	FROM	TO	SIZE	WEIGHT	FROM TO
ONE	3.5"	60.2 M	94.0 M	7"		0 10.0 M
EQUIPMENT						
FE						
RUN 1						
RUN 2						
RUN 3						
RUN 4						
REMARKS						
GAMMA RAY FOCUSS ELECTRIC SLIMLINE UNIT						
N 103.222.0 E 100.107.96						
SYSTEM CONFIGURATION DATA LOGGED PROCESSED PLOTTED						

ALL INTERPRETATIONS ARE OPINION, BASED ON INFERENCES FROM ELECTRICAL OR OTHER MEASUREMENTS AND WE CANNOT AND DO NOT GUARANTEE THE ACCURACY OR CORRECTNESS OF ANY INTERPRETATIONS AND WE SHALL NOT EXCEPT IN THE CASE OF GROSS OR WILLFUL NEGLIGENCE ON OUR PART BE LIABLE OR RESPONSIBLE FOR ANY LOSSES, COSTS, DAMAGES, OR EXPENSES INCURRED OR SUSTAINED BY ANYONE RESULTING FROM ANY INTERPRETATION MADE BY ANY OF OUR OFFICERS, AGENTS OR EMPLOYEES. THESE INTERPRETATIONS ARE ALSO SUBJECT TO OUR GENERAL TERMS AND CONDITIONS IN OUR PRICE SCHEDULE

**MAIN LOG**

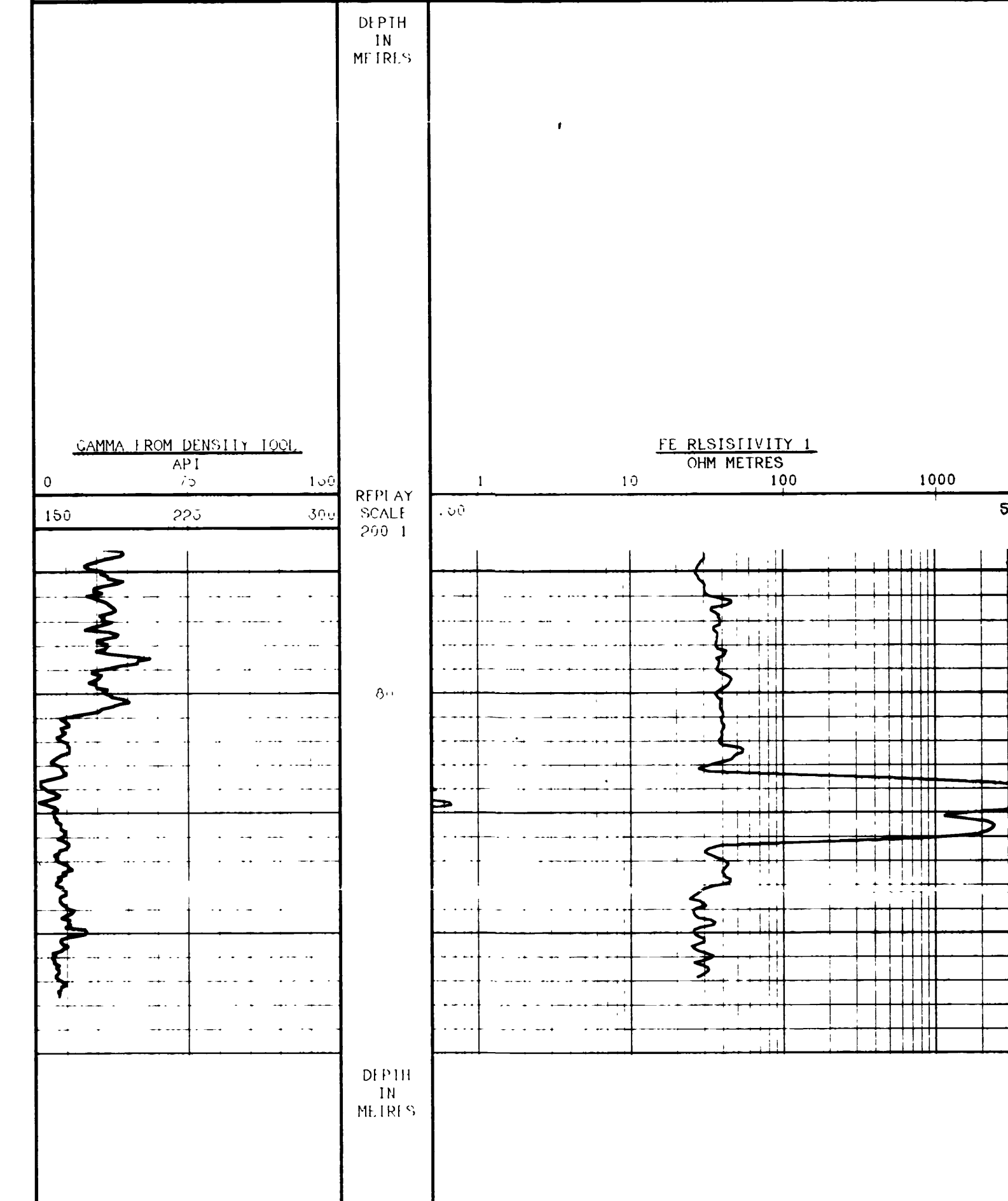
DEPTH BASED DATA - MAXIMUM SAMPLING INCREMENT 10CM. RECORDED ON 1-APR-1992 AT 10 37  
 FILENAME MRGF06M.CIB RUN ID MAIN LOG PLOTTED ON 01-APR-1992 AT 10 56



DEPTH BASED DATA - MAXIMUM SAMPLING INCREMENT 10CM. RECORDED ON 1-APR-1992 AT 10 37  
 FILENAME MRGF06M.CIB RUN ID MAIN LOG PLOTTED ON 01-APR-1992 AT 10 56

**REPEAT SECTION**

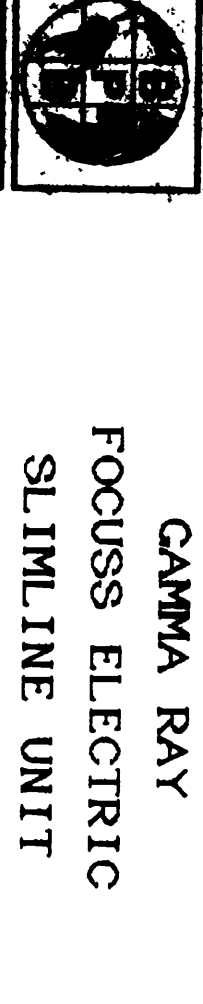
DEPTH BASED DATA - MAXIMUM SAMPLING INCREMENT 10CM. RECORDED ON 1-APR-1992 AT 10 29  
 FILENAME MRGF06R.CIB RUN ID REPEAT SECTION PLOTTED ON 01-APR-1992 AT 10 56



DEPTH BASED DATA - MAXIMUM SAMPLING INCREMENT 10CM. RECORDED ON 1-APR-1992 AT 10 29  
 FILENAME MRGF06R.CIB RUN ID REPEAT SECTION PLOTTED ON 01-APR-1992 AT 10 56

**REPEAT SECTION**

COMPANY	BRINCO COAL MINING CORP.
WELL	92-006
FIELD	QUINSAM
PROVINCE/COUNTY	BRITISH COLUMBIA
COUNTRY/STATE	CANADA



**CAMMA RAY**  
**FOUSS ELECTRIC**  
**SLIMLINE UNIT**

LOCATION	CAMPBELL RIVER	OTHER SERVICES	
PRVNC/CO.	BRITISH COLUMBIA		
FIELD	QUINSAM		
WELL	92-007		
COMPANY	BRINCO COAL MINING CORP.		
PROVINC/COUNTY	BRITISH COLUMBIA		
COUNTRY/STATE	CANADA		
LOCATION	CAMPBELL RIVER		
LRD			
SEC			
TWP			
RDF			
ELEVATION	321.85 M		
LOC MEASURED FROM CL			
DRILLING MEASURED FROM CL			
DATE	1-APR-92		
RUN NUMBER	ONE		
DEPTH-DRILLER	79.9 M		
DEPTH-LOGGER	76.6 M		
LAST READING	76.6 M		
COSTING-DRILLER	6.0 M		
COSTING-LOGGER	2.3 M		
BIT SIZE	5.5"		
HOLE FLUID TYPE	WATER		
PENS./VISC.	1.1		
PH/FLUID LOSS	N/A		
SAMPLE SOURCE	N/A		
RR @ MEAS TEMP			
RR @ MEAS TEMP			
RR @ MEAS TEMP			
SOURCE BHT/IRAC			
RR @ BHT			
TIME SINCE CIRC			
MAX REC TEMP			
EQUIPMENT/BASE	V223 REDEER		
RECORDED BY	JCV		
WITNESSED BY			

RUN NUMBER	BOREHOLE RECORD			CASING RECORD		
	BIT	FROM	TO	SIZE	WEIGHT	FROM TO
ONE	5.5"	52.9 M	79.9 M	7"		0 6.0 M

EQUIPMENT	RUN 1	RUN 2	RUN 3	RUN 4
FE				

**REMARKS**

CAMMA RAY FOCUS ELECTRIC SLIMLINE UNIT

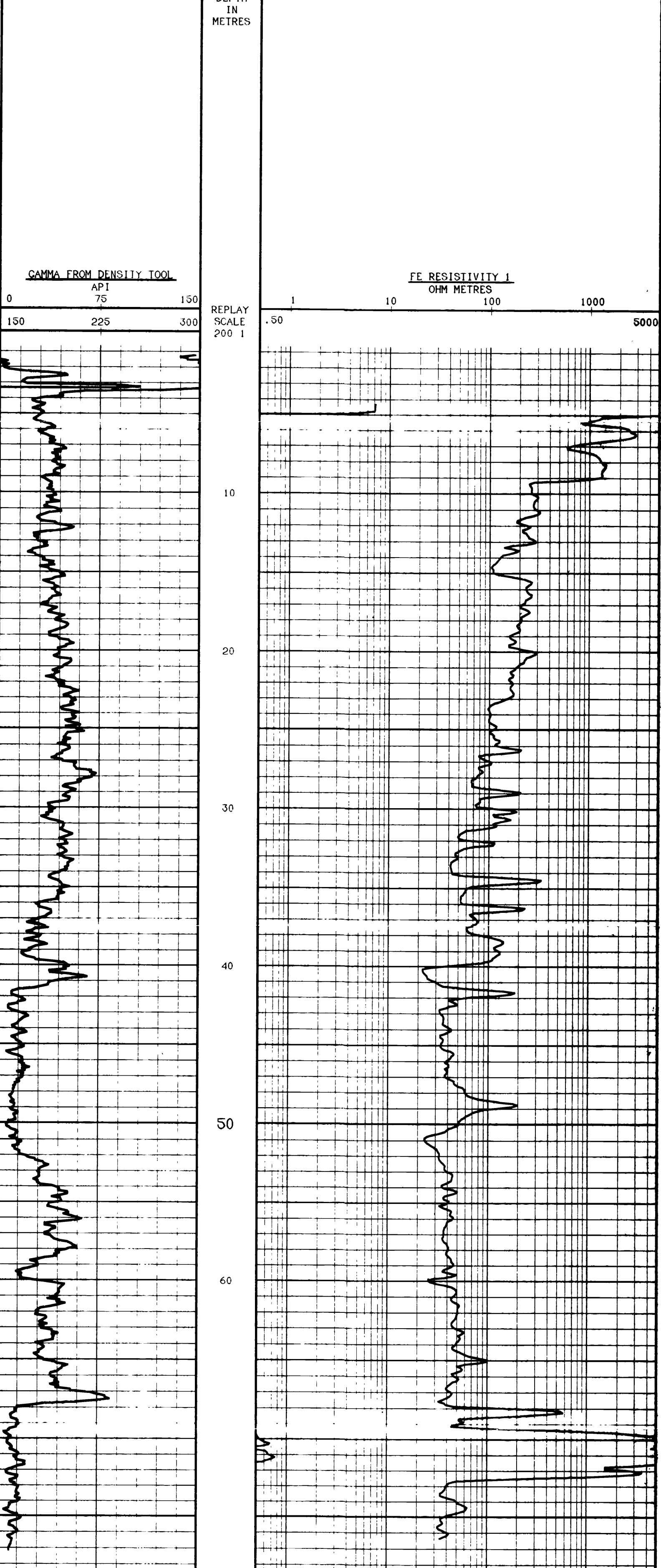
N 102 999.489 E 99 868.12

SYSTEM CONFIGURATION DATES LOGGED PROCESSED PLOTTED

ALL INTERPRETATIONS ARE OPINIONS BASED ON INFERENCES FROM ELECTRICAL OR OTHER MEASUREMENTS AND WE CANNOT AND DO NOT GUARANTEE THE ACCURACY OR CORRECTNESS OF ANY INTERPRETATIONS. AND WE SHALL NOT BE RESPONSIBLE FOR ANY LOSS, COSTS, DAMAGES OR EXPENSES INCURRED OR SUSTAINED BY ANYONE RESULTING FROM ANY INTERPRETATION MADE BY ANY OF OUR OFFICERS, AGENTS OR EMPLOYEES. THESE INTERPRETATIONS ARE ALSO SUBJECT TO OUR GENERAL TERMS AND CONDITIONS IN OUR PRICE SCHEDULE.

**MAIN LOG**

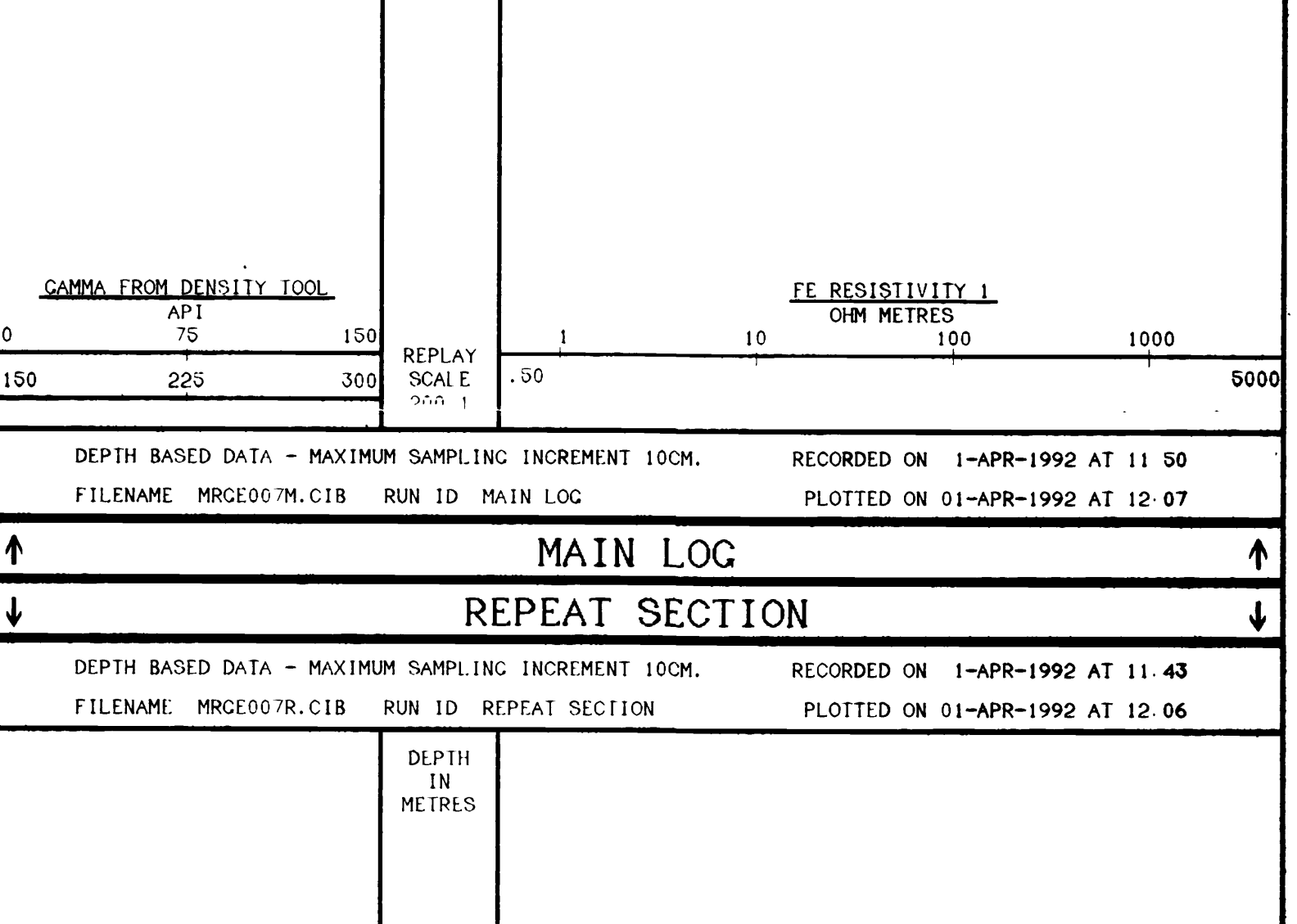
DEPTH BASED DATA - MAXIMUM SAMPLING INCREMENT 10CM. RECORDED ON 1-APR-1992 AT 11:50  
 FILENAME MRCE00.M.CIB RUN ID MAIN LOG PLOTTED ON 01-APR-1992 AT 12:07



DEPTH BASED DATA - MAXIMUM SAMPLING INCREMENT 10CM. RECORDED ON 1-APR-1992 AT 11:50  
 FILENAME MRCE007M.CIB RUN ID MAIN LOG PLOTTED ON 01-APR-1992 AT 12:07

**REPEAT SECTION**

DEPTH BASED DATA - MAXIMUM SAMPLING INCREMENT 10CM. RECORDED ON 1-APR-1992 AT 11:43  
 FILENAME MRCE007R.CIB RUN ID REPEAT SECTION PLOTTED ON 01-APR-1992 AT 12:06



DEPTH BASED DATA - MAXIMUM SAMPLING INCREMENT 10CM. RECORDED ON 1-APR-1992 AT 11:43  
 FILENAME MRCE007R.CIB RUN ID REPEAT SECTION PLOTTED ON 01-APR-1992 AT 12:06

**REPEAT SECTION**

COMPANY	BRINCO COAL MINING CORP.
WELL	92-007
FIELD	QUINSAM
PROVINCE/COUNTY	BRITISH COLUMBIA
COUNTRY/STATE	CANADA











**GAMMA RAY**  
**FOCUS ELECTRIC**  
**SLIMLINE UNIT**

<b>LOCATION</b> CAMPBELL RIVER PRVNC/CO. BRITISH COLUMBIA FIELD QUINSAM WELL 92-011 COMPANY BRINCO COAL MINING CORP.		COMPANY BRINCO COAL MINING CORP. WELL 92-011 FIELD QUINSAM PROVINCE/COUNTY BRITISH COLUMBIA COUNTRY/STATE CANADA	
<b>MEASUREMENT DATA</b> LOG MEASURED FROM CI DRILLING MEASURED FROM CI DEPTH-DRILLER 1015 M DEPTH-LOGGER 96.1 M LAST READING 96.0 CASING-DRILLER 13.7 M CASING-LOGGER 13.6 M BIT SIZE 5.5"	LOCATION CAMPBELL RIVER LSP SEC TYP RCL OTHER SERVICES DIPMETER DDI	ELEVATION 316.46 M ABOVE PERMANENT DATUM KB CI 316.46 M CI 316.46 M	ELEVATIONS

RUN NUMBER	BORHOLE RECORD			CASING RECORD			
	BIT	FROM	TO	SIZE	WEIGHT	FROM	TO
ONE	5.5"	4.7 M	101.2 M			0	13.5 M

EQUIPMENT	RUN 1	RUN 2	RUN 3	RUN 4
FT				

**REMARKS**

GAMMA RAY FOCUS ELECTRIC SLIMLINE UNIT

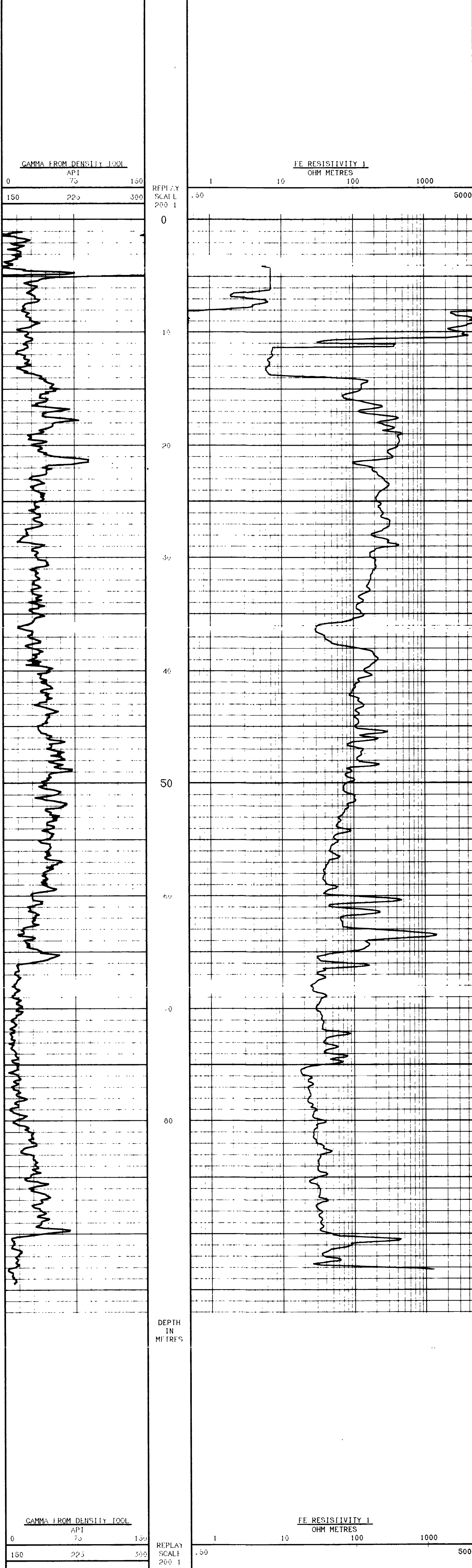
N 103 201.00 L 100 193.96

SYSTEM CONFIGURATION DATA LOGGED PROCESSED PLOTTED

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**MAIN LOG**

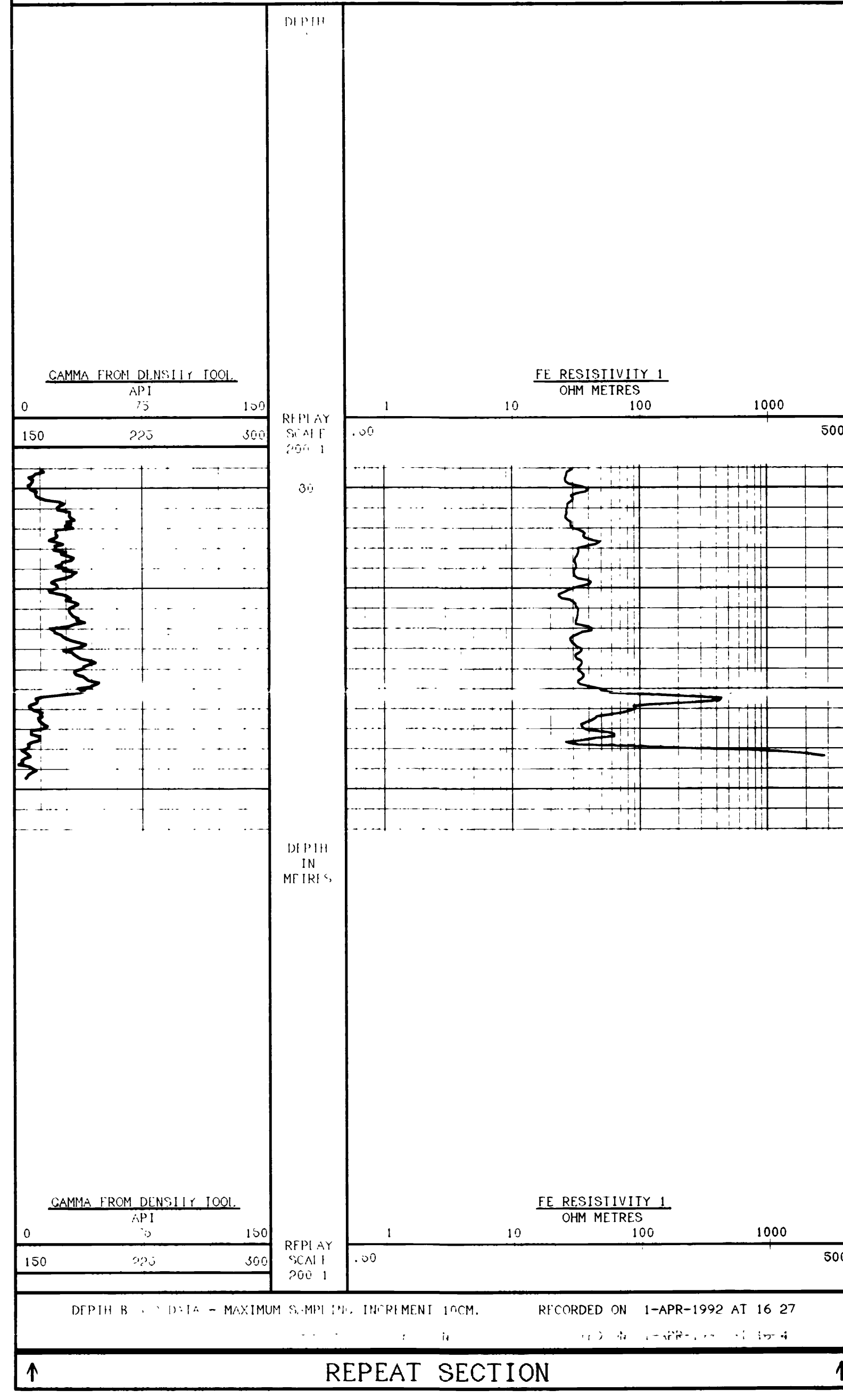
DEPTH BASED DATA - MAXIMUM SAMPLING INCREMENT 10CM. RECORDED ON 1-APR-1992 AT 16 29  
 FILENAME MRG611M.CIB RUN ID MAIN LOG PLOTTED ON 01-APR-1992 AT 16 40



DEPTH BASED DATA - MAXIMUM SAMPLING INCREMENT 10CM. RECORDED ON 1-APR-1992 AT 16 29  
 FILENAME MRG611M.CIB RUN ID MAIN LOG PLOTTED ON 01-APR-1992 AT 16 40

**REPEAT SECTION**

DEPTH BASED DATA - MAXIMUM SAMPLING INCREMENT 10CM. RECORDED ON 1-APR-1992 AT 16 27  
 FILENAME MRG611R.CIB RUN ID REPEAT SECTION PLOTTED ON 01-APR-1992 AT 16 40



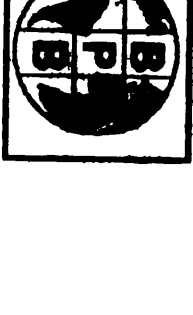
DEPTH BASED DATA - MAXIMUM SAMPLING INCREMENT 10CM. RECORDED ON 1-APR-1992 AT 16 27  
 FILENAME MRG611R.CIB RUN ID REPEAT SECTION PLOTTED ON 01-APR-1992 AT 16 40

COMPANY	BRINCO COAL MINING CORP.
WELL	92-011
FIELD	QUINSAM
PROVINCE/COUNTY	BRITISH COLUMBIA
COUNTRY/STATE	CANADA









**GAMMA RAY**  
**FOCUSS ELECTRIC**  
**SLIMLINE UNIT**

COMPANY BRINCO COAL MINING CORP.  
 WELL 92-014  
 FIELD QUINSAM  
 PROVINCE/COUNTY BRITISH COLUMBIA  
 COUNTRY/STATE CANADA

LOCATION CAMPBELL RIVER  
 OTHER SERVICES  
 DIPMETER  
 DDI

PERMANENT DATUM CL. ELEVATION 323.33 M  
 LOG MEASURED FROM CL. ABOVE PERMANENT DATUM  
 DRILLING MEASURED FROM CL. ELEVATIONS  
 K8 CL 323.33 M

DATE 1-APR-92  
 RUN NUMBER 001  
 DEPTH-DRILLER 116.3 M  
 DEPTH-LOGGER 116.0 M  
 FIRST READING 0  
 LAST READING 7.5 M  
 CASTING-DRILLER 7.0 M  
 CASTING-LOGGER 5.5 M

HOLE FLUID TYPE WATER  
 DENS./VISC. 1.1  
 PH/FLUID LOSS N/A  
 SAMPLE SOURCE N/A  
 @ MEAS TEMP  
 @ MEAS TEMP  
 SOURCE BHT/TMC  
 @ BHT  
 LINE SINCE CIRC  
 MAX REC TEMP  
 EQUIPMENT/BASE V223 REDFERR  
 RECORDED BY JCV  
 WITNESSED BY

RUN NUMBER	BIT	FROM	TO	SIZE	WEIGHT	FROM	TO
ONE	5.5"	99.4 M	116.3 M	7"		0	7.5 M

EQUIPMENT	RUN 1	RUN 2	RUN 3	RUN 4
FE				

**REMARKS**

GAMMA RAY FOCUSS ELECTRIC SLIMLINE UNIT

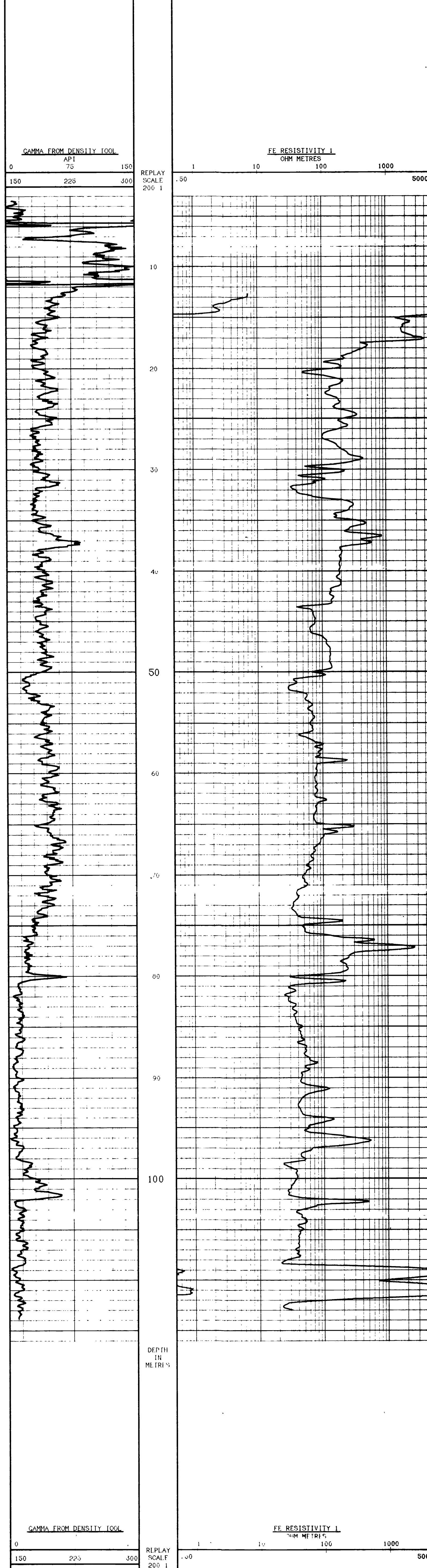
N 103 340.00 E 100 297.00

SYSTEM CONFIGURATION DATES: LOGGED PROCESSED PLOTTED

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**MAIN LOG**

DEPTH BASED DATA - MAXIMUM SAMPLING INCREMENT 10CM. RECORDED ON 1-APR-1992 AT 20 52  
 FILENAME MRCE014M.C1B RUN ID MAIN LOG PLOTTED ON 01-APR-1992 AT 21 27

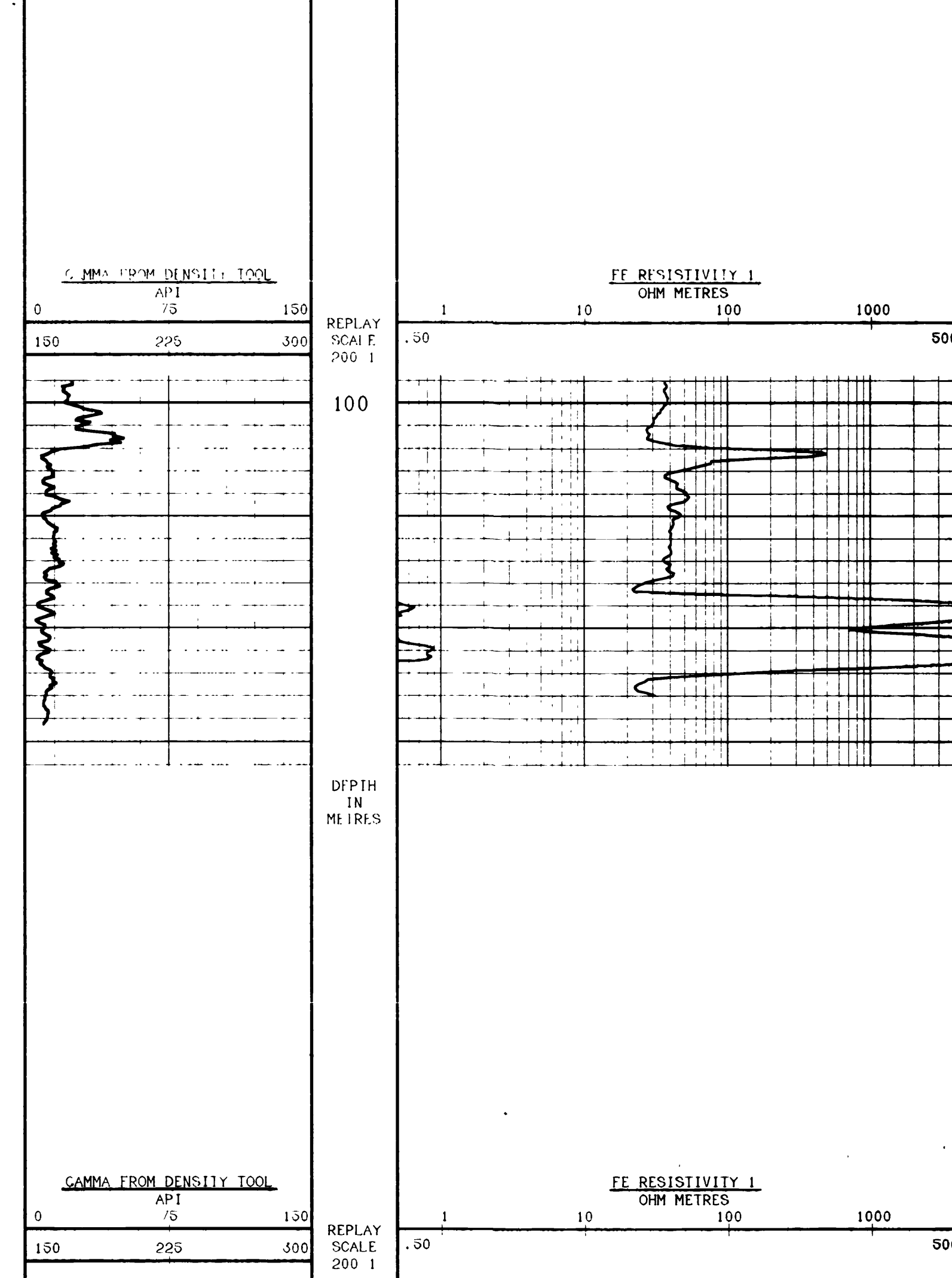


DEPTH BASED DATA - MAXIMUM SAMPLING INCREMENT 10CM. RECORDED ON 1-APR-1992 AT 20 52  
 FILENAME MRCE014M.C1B RUN ID MAIN LOG PLOTTED ON 01-APR-1992 AT 21 27

**MAIN LOG**

**REPEAT SECTION**

DEPTH BASED DATA - MAXIMUM SAMPLING INCREMENT 10CM. RECORDED ON 1-APR-1992 AT 20 43  
 FILENAME MPF014R.C1B RUN ID REPEAT SECTION PLOTTED ON 01-APR-1992 AT 21 26



DEPTH BASED DATA - MAXIMUM SAMPLING INCREMENT 10CM. RECORDED ON 1-APR-1992 AT 20 43  
 FILENAME MRCE014R.C1B RUN ID REPEAT SECTION PLOTTED ON 01-APR-1992 AT 21 26

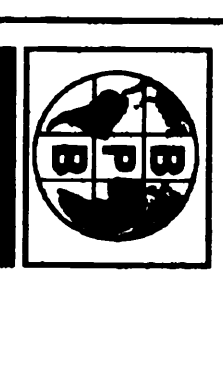
**REPEAT SECTION**

COMPANY BRINCO COAL MINING CORP.  
 WELL 92-014  
 FIELD QUINSAM  
 PROVINCE/COUNTY BRITISH COLUMBIA  
 COUNTRY/STATE CANADA









**GAMMA RAY  
FOCUSS ELECTRIC  
SLIMLINE UNIT**

COMPANY BRINCO COAL MINING CORP.  
WELL 92-019  
FIELD QUINSAM

PROVINCE/COUNTY BRITISH COLUMBIA  
COUNTRY/STATE CANADA

LOCATION CAMPBELL RIVER  
PRVNC/CO. BRITISH COLUMBIA  
FIELD QUINSAM  
WELL 92-019  
COMPANY BRINCO COAL MINING CORP.

PERMANENT DATUM CL. ELEVATION 272.2 M  
LOC. MEASURED FROM CL. ABOVE PERMANENT DATUM (M) 272.2 M  
DRILLING MEASURED FROM CL. (M) 272.2 M

DATE	2-APR-92
RUN NUMBER	ONE
DEPTH-DRILLER	93.3 M
DEPTH-COGER	93.0 M
FIRST READING	0
CASING-DRILLER	16.4 M
CASING-COGER	16.4 M
BIT SIZE	5.5"
HOLE FLUID TYPE	WATER
DENS. VISC.	1.1
PIV/HUID LOSS	N/A
SAMPL. SOURCE	N/A
RM @ MEAS. TEMP	
RM @ MEAS. TEMP	
SOURCE - RMT/RMK	
TIME SINCE CIRC	
MAX REC TEMP	
EQUIPMENT/ASSF	W230 RIDER
RECORDED BY	JCV
TRANSMITTED BY	

RUN NUMBER	BORTHOLE RECORD		CASING RECORD			
	FROM	TO	SIZE	WEIGHT	FROM	TO
ONE	0.0 M	93.3 M	7"		0	16.4 M

EQUIPMENT	RUN 1	RUN 2	RUN 3	RUN 4
FE				

**REMARKS**

GAMMA RAY FOCUSS ELECTRIC SLIMLINE UNIT

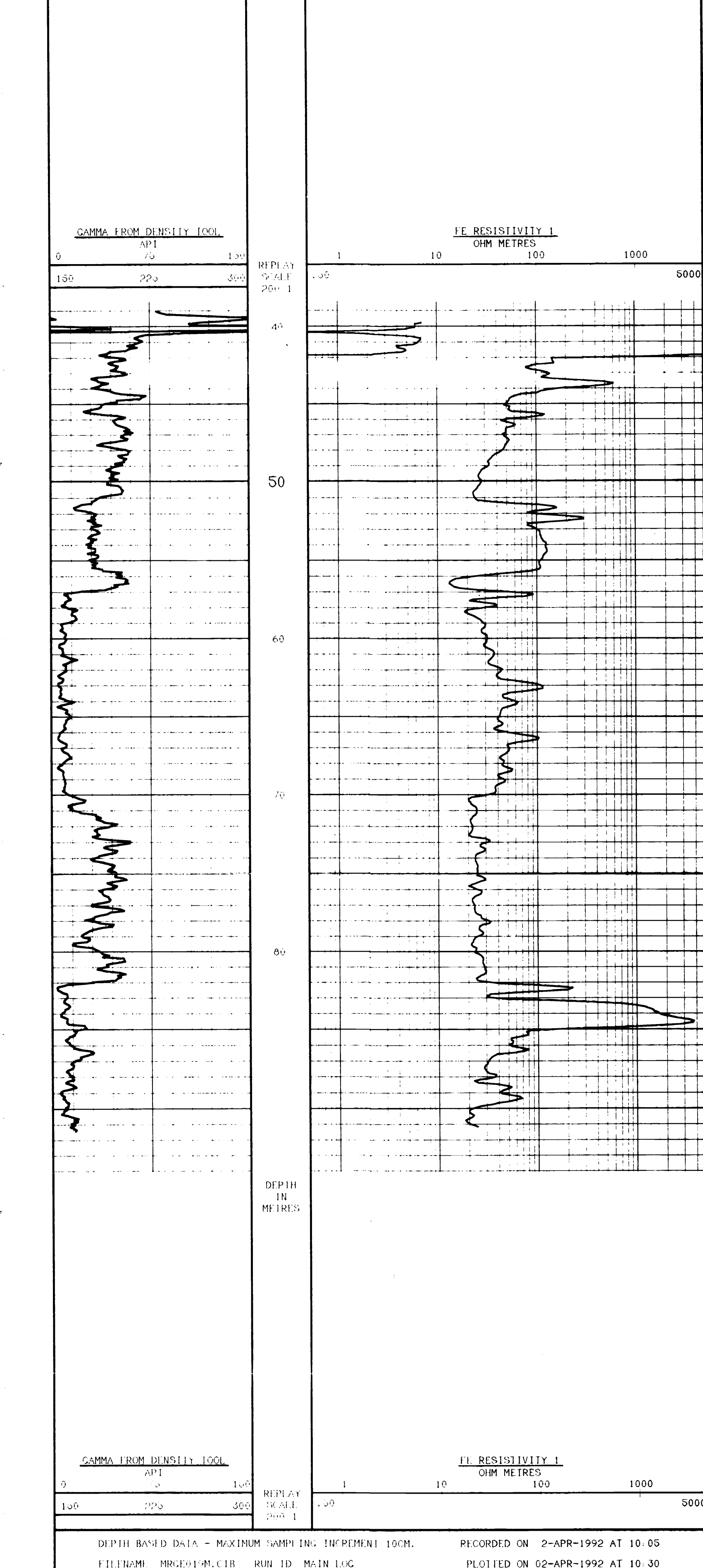
N 100 000 000 E 100 000 000

SYSTEM CONFIGURATION DATES: LOGGED PROCESSED PLOTTED

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**MAIN LOG**

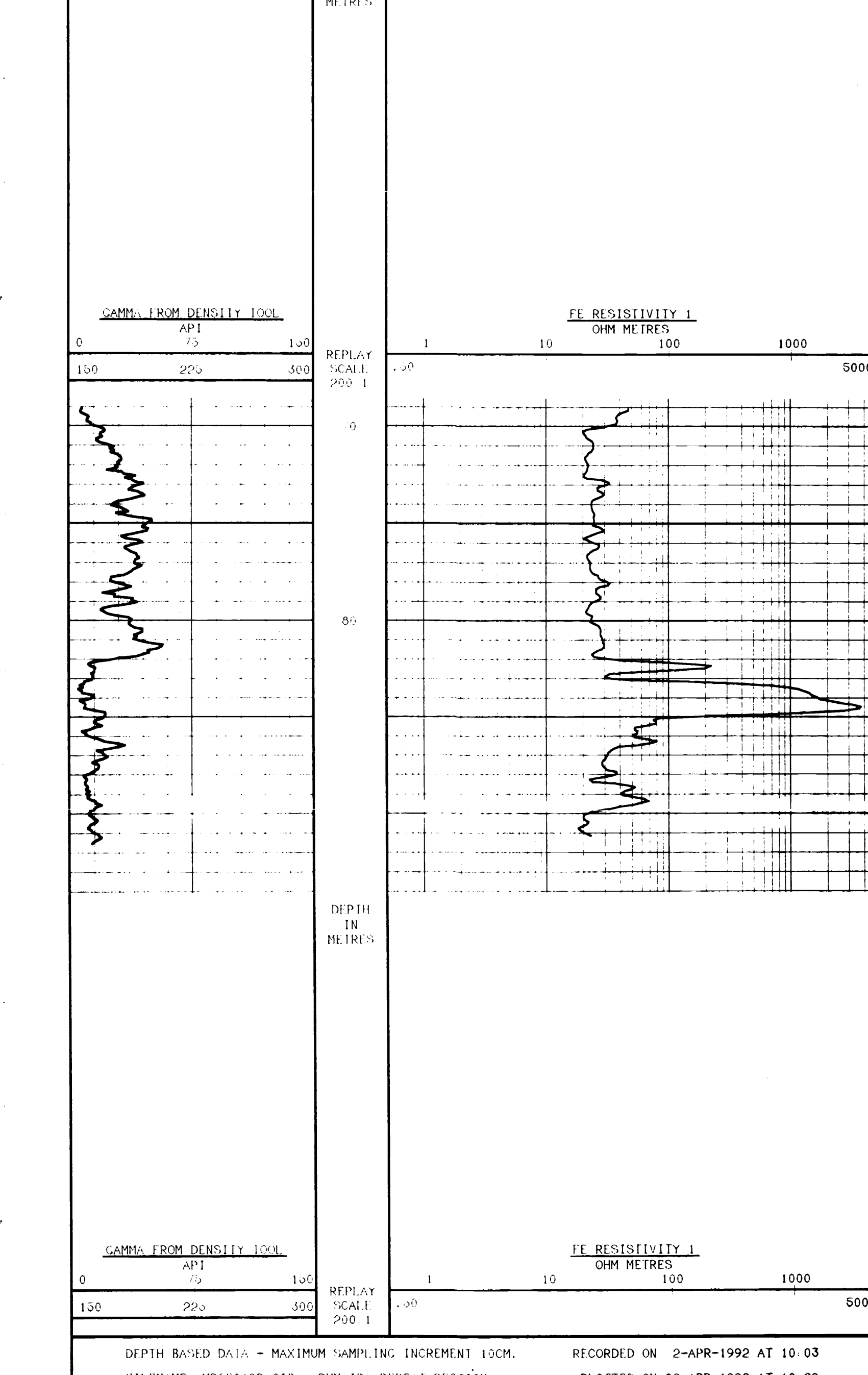
DEPTH BASED DATA - MAXIMUM SAMPLING INCREMENT 10CM. RECORDED ON 2-APR-1992 AT 10:05  
FILENAME MRGE019M.CIB RUN ID MAIN LOG PLOTTED ON 02-APR-1992 AT 10:30



DEPTH BASED DATA - MAXIMUM SAMPLING INCREMENT 10CM. RECORDED ON 2-APR-1992 AT 10:05  
FILENAME MRGE019M.CIB RUN ID MAIN LOG PLOTTED ON 02-APR-1992 AT 10:30

**REPEAT SECTION**

DEPTH BASED DATA - MAXIMUM SAMPLING INCREMENT 10CM. RECORDED ON 2-APR-1992 AT 10:03  
FILENAME MRGE019R.CIB RUN ID REPEAT SECTION PLOTTED ON 02-APR-1992 AT 10:29

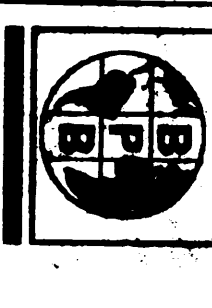


DEPTH BASED DATA - MAXIMUM SAMPLING INCREMENT 10CM. RECORDED ON 2-APR-1992 AT 10:03  
FILENAME MRGE019R.CIB RUN ID REPEAT SECTION PLOTTED ON 02-APR-1992 AT 10:29

**REPEAT SECTION**

COMPANY	BRINCO COAL MINING CORP.
WELL	92-019
FIELD	QUINSAM
PROVINCE/COUNTY	BRITISH COLUMBIA
COUNTRY/STATE	CANADA





**CAMMA RAY**  
**FOCUS5 ELECTRIC**  
**SLIMLINE UNIT**

COMPANY: BRINCO COAL MINING CORP.  
WELL: 92-020  
FIELD: QUINSAM  
PROVINCE/COUNTY: BRITISH COLUMBIA  
COUNTRY/STATE: CANADA

LOCATION: CAMPBELL RIVER  
PRVNC/CO: BRITISH COLUMBIA  
FIELD: QUINSAM  
WELL: 92-020  
COMPANY: BRINCO COAL MINING CORP.

OTHER SERVICES: DIMETER

PERMANENT DATUM: 292.607 M  
LOC MEASURED FROM: CL  
ELEVATION ABOVE PERMANENT DATUM: 292.607 M  
DATE: 2-APR-92  
DRILLING MEASURED FROM: CL

DEPTH-DRILLER: 93.0 M  
DEPTH-COGER: 94.0 M  
LAST READING: 0  
CASTING-DRILLER: 17.7 M  
CASTING-COGER: 17.7 M  
BIT SIZE: 5.25"

WELL FLUID TYPE: WATER  
DENS. VISC.: 1.1  
PH/FLUID LOSS: N/A  
SAMPLE SOURCE: N/A  
RMI @ MEAS TEMP: N/A  
RMC @ MEAS TEMP: N/A  
SOURCE: RMI/RMC  
TIME SINCE CIRC: N/A  
MAX REC TEMP: N/A  
EQUIPMENT/BASE: V223 RIDDER  
RECORDED BY: JCA  
WITNESSED BY:

RUN NUMBER	BOREHOLE RECORD			CASING RECORD			
	BIT	FROM	TO	SIZE	WEIGHT	FROM	TO
ONE	3.5"	03.2 M	93.0 M	7"		0	17.7 M

EQUIPMENT	RUN 1	RUN 2	RUN 3	RUN 4
FF				

**REMARKS**

CAMMA RAY FOCUS5 ELECTRIC SLIMLINE UNIT

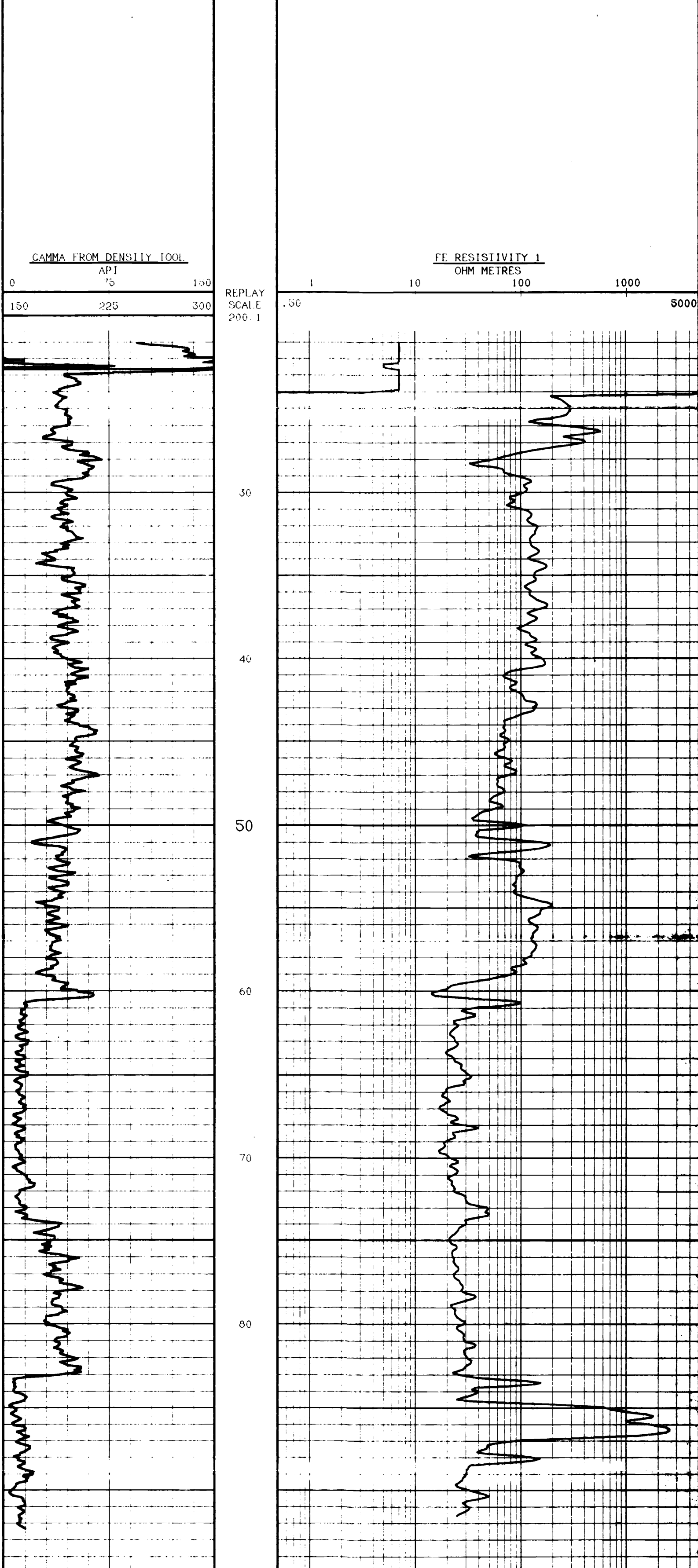
215.646  
N 102.600.331 E 105.646

SYSTEM CONFIGURATION DATES	LOGGED	PROCESSED	PLOTTED

ALL INTERPRETATIONS ARE OPINIONS BASED ON INFERENCE FROM ELECTRICAL OR OTHER MEASUREMENTS AND WE CANNOT AND DO NOT GUARANTEE THE ACCURACY OR CORRECTNESS OF ANY INTERPRETATIONS. AND WE SHALL NOT, EXCEPT IN THE CASE OF GROSS OR WILFUL NEGLIGENCE ON OUR PART, BE LIABLE OR RESPONSIBLE FOR ANY LOSS, COSTS, DAMAGES OR EXPENSES INCURRED OR SUSTAINED BY ANYONE RESULTING FROM ANY INTERPRETATION MADE BY ANY OF OUR OFFICERS, AGENTS OR EMPLOYEES. THESE INTERPRETATIONS ARE ALSO SUBJECT TO OUR GENERAL TERMS AND CONDITIONS IN OUR PRICE SCHEDULE.

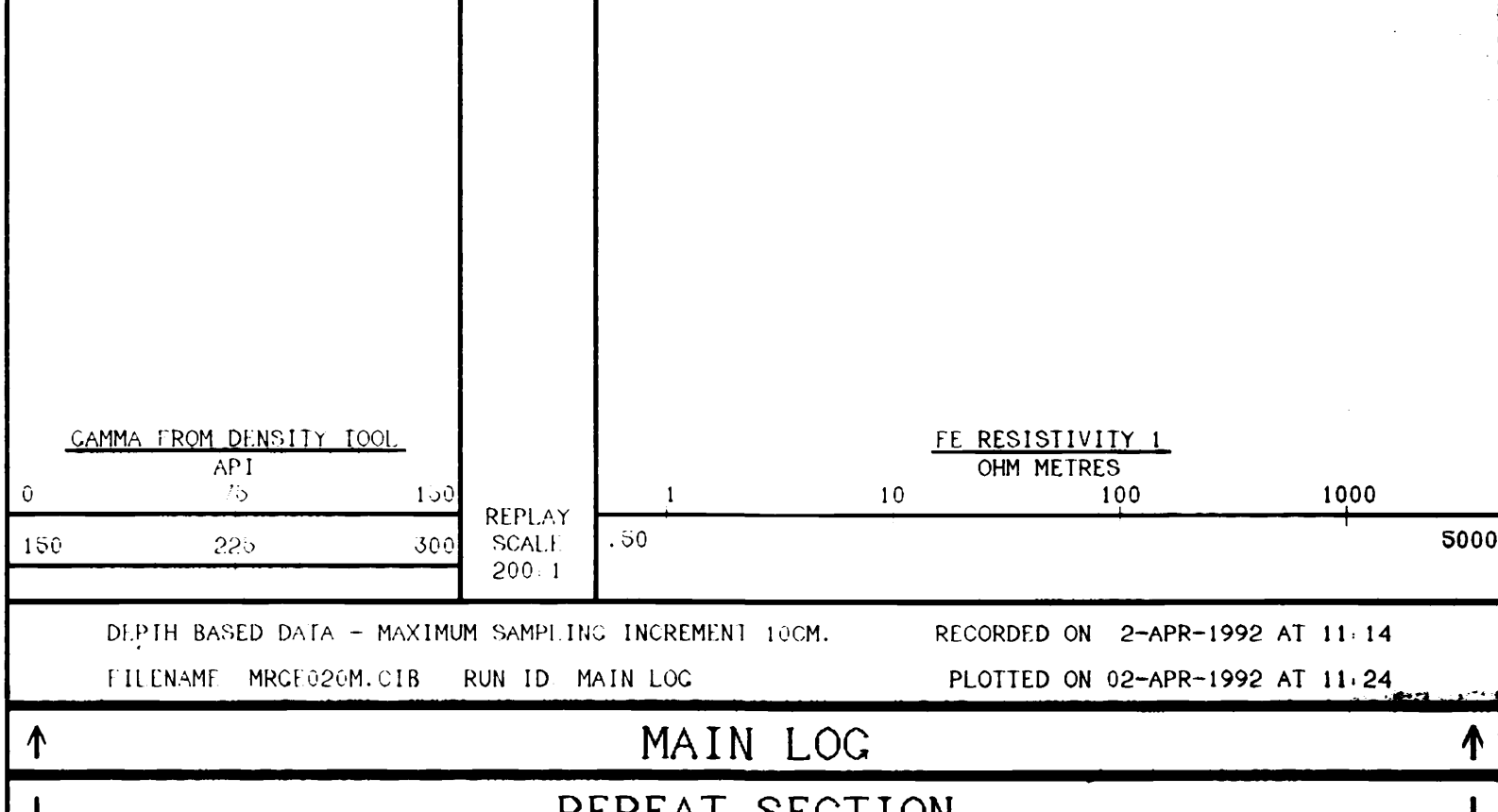
**MAIN LOG**

DEPTH BASED DATA - MAXIMUM SAMPLING INCREMENT 10CM. RECORDED ON 2-APR-1992 AT 11:14  
FILENAME MRCE020M.C1B RUN ID MAIN LOG PLOTTED ON 02-APR-1992 AT 11:24



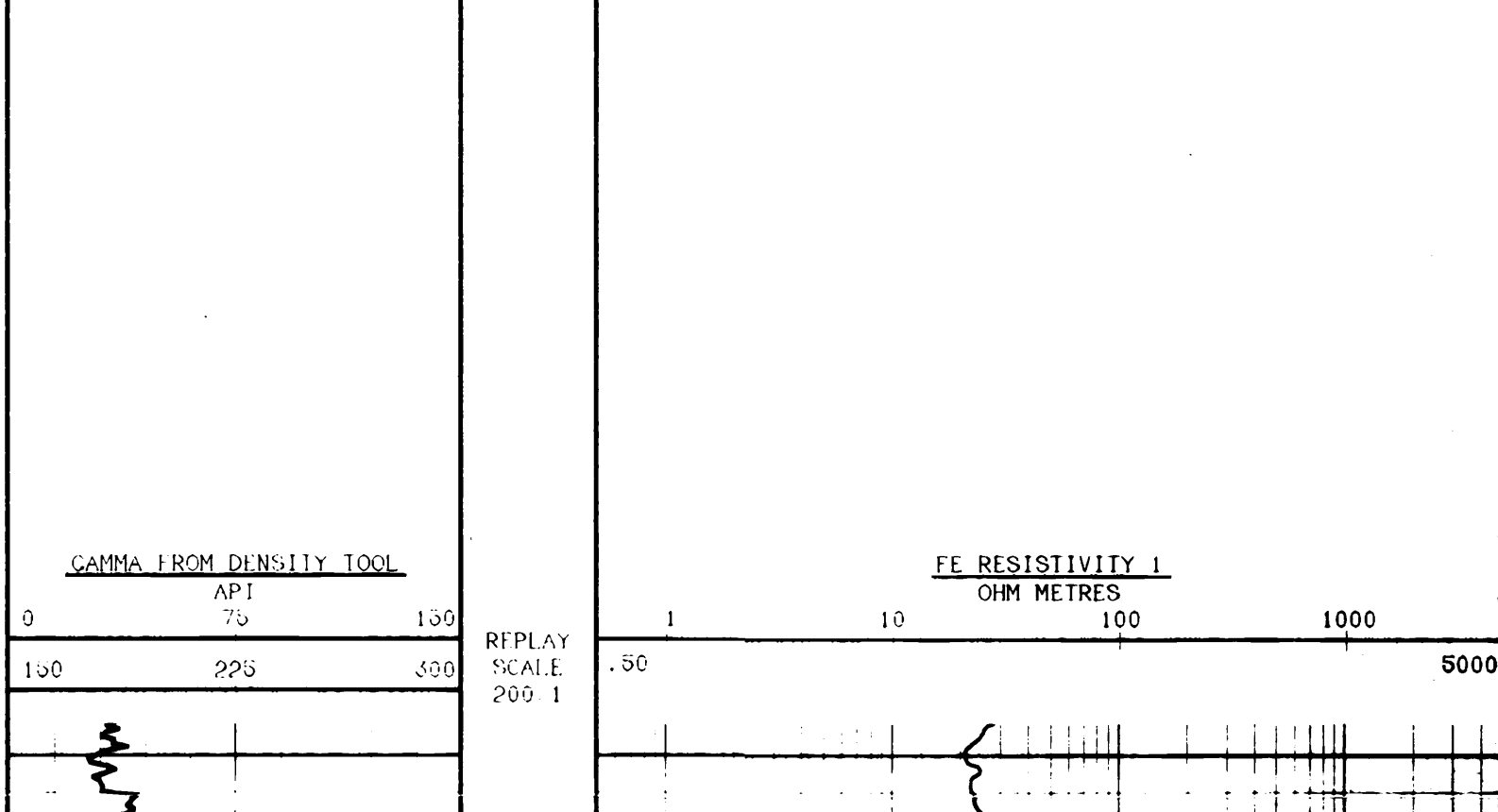
**REPEAT SECTION**

DEPTH BASED DATA - MAXIMUM SAMPLING INCREMENT 10CM. RECORDED ON 2-APR-1992 AT 11:11  
FILENAME MRCE020R.C1B RUN ID REPEAT SECTION PLOTTED ON 02-APR-1992 AT 11:24



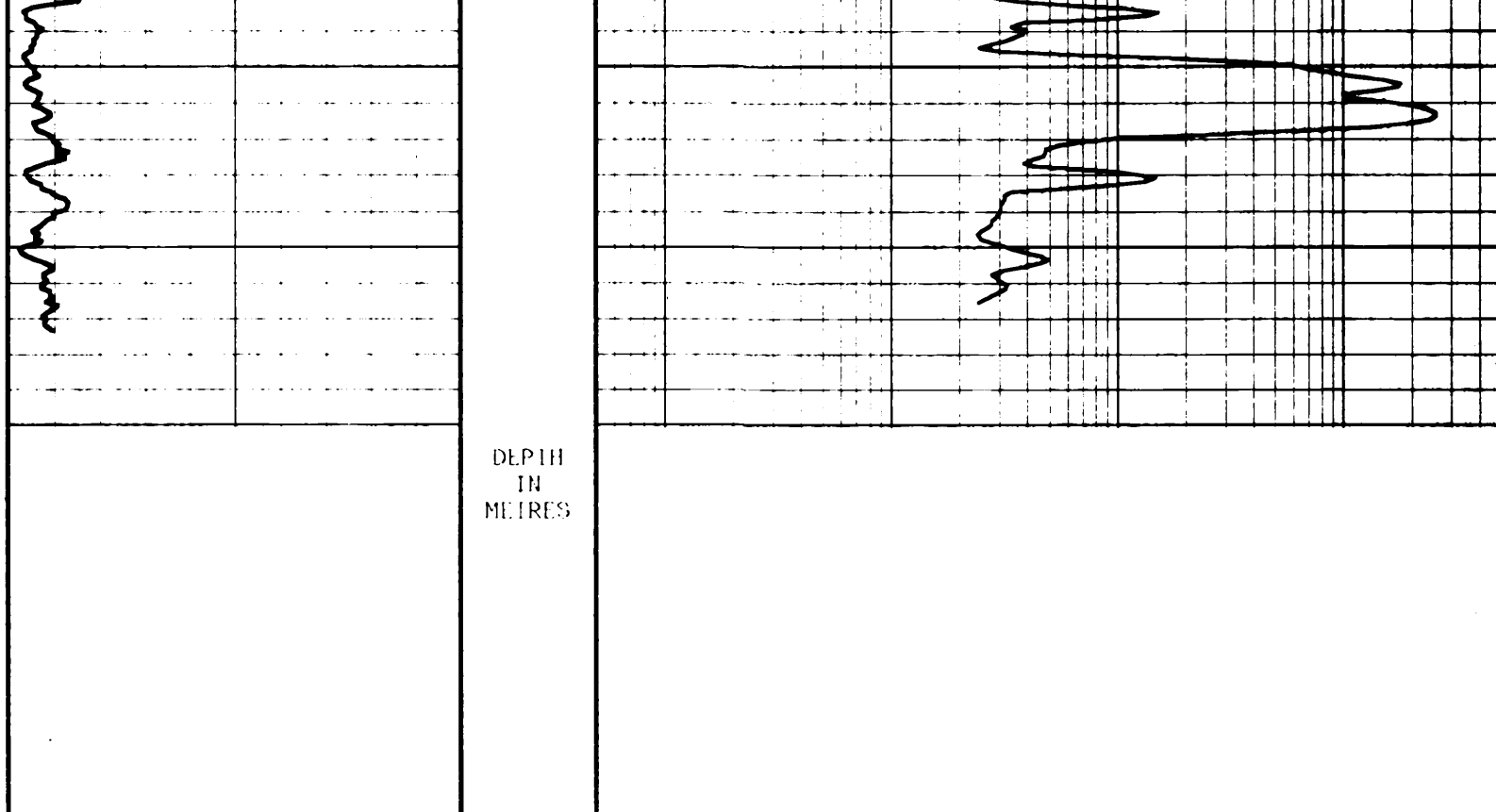
**REPEAT SECTION**

DEPTH BASED DATA - MAXIMUM SAMPLING INCREMENT 10CM. RECORDED ON 2-APR-1992 AT 11:11  
FILENAME MRCE020R.C1B RUN ID REPEAT SECTION PLOTTED ON 02-APR-1992 AT 11:24



**REPEAT SECTION**

DEPTH BASED DATA - MAXIMUM SAMPLING INCREMENT 10CM. RECORDED ON 2-APR-1992 AT 11:11  
FILENAME MRCE020R.C1B RUN ID REPEAT SECTION PLOTTED ON 02-APR-1992 AT 11:24



**REPEAT SECTION**

DEPTH BASED DATA - MAXIMUM SAMPLING INCREMENT 10CM. RECORDED ON 2-APR-1992 AT 11:11  
FILENAME MRCE020R.C1B RUN ID REPEAT SECTION PLOTTED ON 02-APR-1992 AT 11:24

COMPANY	BRINCO COAL MINING CORP.
WELL	92-020
FIELD	QUINSAM
PROVINCE/COUNTY	BRITISH COLUMBIA
COUNTRY/STATE	CANADA



**GAMMA RAY  
FOCUS ELECTRIC  
SLIMLINE UNIT**

COMPANY BRINCO COAL MINING CORP.  
 WELL 92-021  
 FIELD QUINSAM  
 PROVINCE/COUNTY BRITISH COLUMBIA  
 COUNTRY/STATE CANADA  
 LOCATION CAMPBELL RIVER  
 PRVNC/CO. BRITISH COLUMBIA  
 FIELD QUINSAM  
 WELL 92-021  
 COMPANY BRINCO COAL MINING CORP.  
 LOCATION CAMPBELL RIVER  
 OTHER SERVICES DDI  
 DDI DIMETER  
 PERMANENT DATUM CL ELEVATION 319.990 M  
 LOC MEASURED FROM CL ABOVE PERMANENT DATUM KB CL ELEVATIONS: 319.990 M  
 DRILLING MEASURED FROM CL  
 DATE 2-APR-92  
 RUN NUMBER 2-001  
 BIRTH-DRILLER 141.3 M  
 BIRTH-OCGER 132.0 M  
 FIRST FLADING 132.0 M  
 LAST FLADING 0  
 CASING-DRILLER 26.7 M  
 CASING-OCGER 24.0 M  
 BIT SIZE 5.5"  
 HOEL FLUID TYPE WATER  
 DINGS, VISC. 1.1  
 PHT/LUID LOSS N/A  
 SAMPLE SOURCE N/A  
 RM @ MEAS TEMP N/A  
 RM @ MEAS TEMP N/A  
 RM @ MEAS TEMP N/A  
 SOURCE RM/AMC  
 RM @ BIT  
 TIME SINCE CLRC  
 MAX REC TIME  
 TITULIMIN/BASE  
 RECORDED BY JCV  
 ATTENDED BY

RUN NUMBER	BIRTHOLE RECORD			CASING RECORD		
	FROM	TO	SIZE	WEIGHT	FROM	TO
ONE	0.5"	121.3 M	141.3 M	7"	0	26.7 M

EQUIPMENT	RUN 1	RUN 2	RUN 3	RUN 4
FI				

**REMARKS**

GAMMA RAY FOCUS ELECTRIC SLIMLINE UNIT

N 105.945.576 E 105.492.678

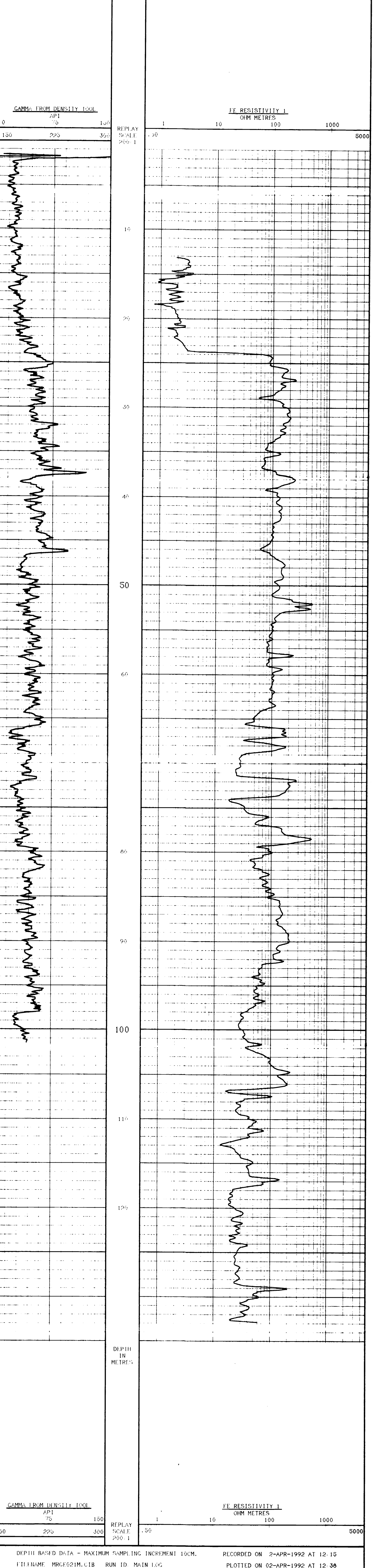
HOLE KEPT FALLING IN AT 90 METERS DUE TO HOLE CONDITIONS NO REPEAT SECTION.

SYSTEM CONFIGURATION DATES LOGGED PROCESSED PLOTTED

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**MAIN LOG**

DEPTH BASED DATA - MAXIMUM SAMPLING INCREMENT 10CM. RECORDED ON 2-APR-1992 AT 12:15  
 FILENAME MPG621M.C1B RUN ID MAIN LOG PLOTTED ON 02-APR-1992 AT 12:38



DEPTH BASED DATA - MAXIMUM SAMPLING INCREMENT 10CM. RECORDED ON 2-APR-1992 AT 12:15  
 FILENAME MPG621M.C1B RUN ID MAIN LOG PLOTTED ON 02-APR-1992 AT 12:38

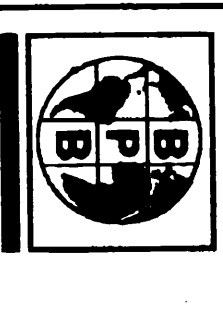
**MAIN LOG**

COMPANY	BRINCO COAL MINING CORP.
WELL	92-021
FIELD	QUINSAM
PROVINCE/COUNTY	BRITISH COLUMBIA
COUNTRY/STATE	CANADA









**GAMMA RAY**  
**FOCUSS ELECTRIC**  
**SLIMLINE UNIT**

LOCATION	CAMPBELL RIVER	OTHER SERVICES:	
PRVNC/CO.	BRITISH COLUMBIA		
FIELD	QUINSAM		
WELL	92-024		
COMPANY	BRINCO COAL MINING CORP.		
PROVINCE/COUNTY	BRITISH COLUMBIA		
COUNTRY/STATE	CANADA		
LOCATION	CAMPBELL RIVER		
ISD			
SFC			
TRP			
RCF			
ELEVATION ABOVE PERMANENT DATUM	309.210 M		
PERMANENT DATUM	CI		
ELEVATIONS			
LOC. MEASURED FROM	CI		
DRILLING MEASURED FROM	CI		
DATE	2-APR-92		
RUN NUMBER	ONE		
DEPTH-DRILLER	110.6 M		
DEPTH-OCCUR	117.6 M		
FIRST READING	117.6 M		
LAST READING	0		
CASING-DRILLER	6.3 M		
CASING-OCCUR	6.3 M		
BIT SIZE	5.5"		
HOLE LIQUID TYPE	WATER		
DENS./LITRE	1.1		
PH/LIQUID LOSS	N/A		
SAMPLE SOURCE			
RM @ M/LAS TEMP			
RM @ M/LAS TEMP			
RM @ M/LAS TEMP			
SOURCE			
TIME SINCE CLRC			
MAX REC TEMP			
EQUIPMENT/TYPE	V293 REOFTR		
RECORDED BY	JCV		
ATTENDED BY			

RUN NUMBER	BOTH HOLE RECORD			CASING RECORD			
	BIT	FROM	TO	SIZE	WEIGHT	FROM	TO
ONE	5.5"	99.2 M	110.6 M			0	6.3 M

EQUIPMENT	RUN 1	RUN 2	RUN 3	RUN 4
FOCUSS ELEC				

**REMARKS**

GAMMA Ray FOCUSS ELECTRIC SLIMLINE UNIT

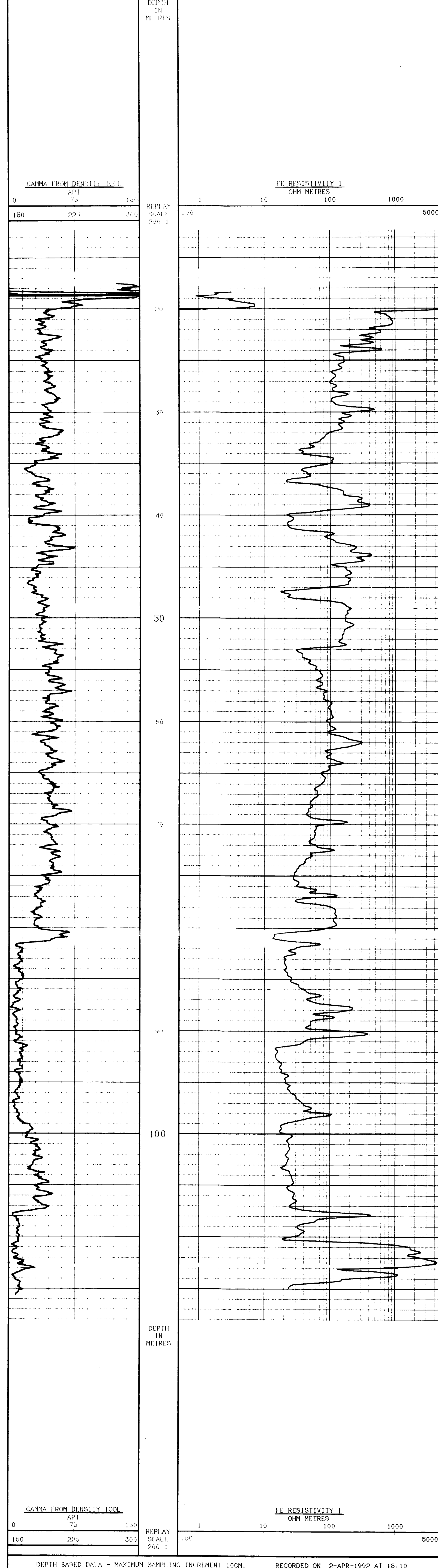
N 102 980,260 E 100 346,100

SYSTEM CONFIGURATION DATES: LOGGED PROCESSED PLOTTED

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**MAIN LOG**

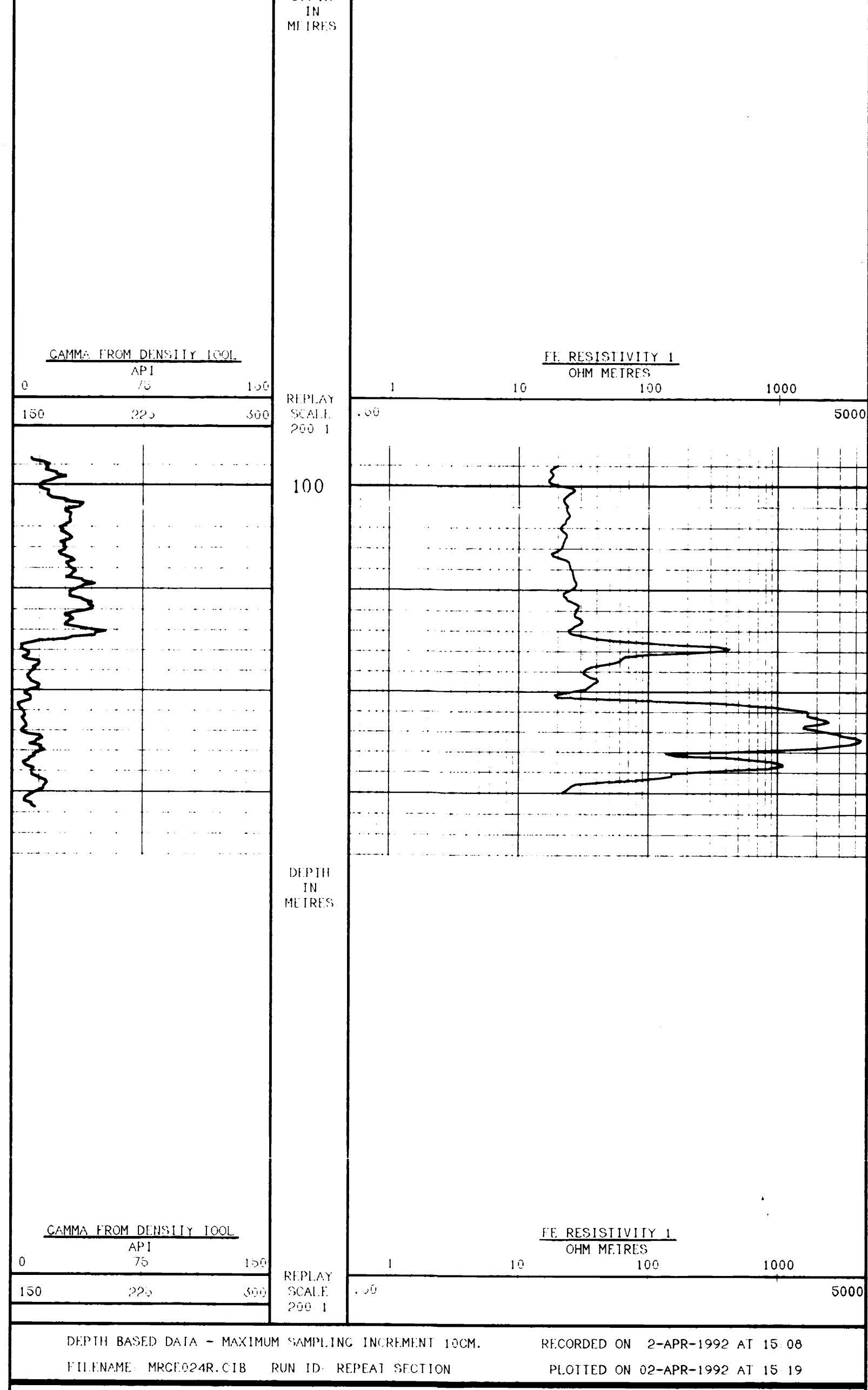
DEPTH BASED DATA - MAXIMUM SAMPLING INCREMENT 10CM. RECORDED ON 2-APR-1992 AT 15:10  
 FILENAME MRCE024M.C1B RUN ID MAIN LOG PLOTTED ON 02-APR-1992 AT 15:20



DEPTH BASED DATA - MAXIMUM SAMPLING INCREMENT 10CM. RECORDED ON 2-APR-1992 AT 15:10  
 FILENAME MRCE024M.C1B RUN ID MAIN LOG PLOTTED ON 02-APR-1992 AT 15:20

**REPEAT SECTION**

DEPTH BASED DATA - MAXIMUM SAMPLING INCREMENT 10CM. RECORDED ON 2-APR-1992 AT 15:08  
 FILENAME MRCE024R.C1B RUN ID REPEAT SECTION PLOTTED ON 02-APR-1992 AT 15:19



DEPTH BASED DATA - MAXIMUM SAMPLING INCREMENT 10CM. RECORDED ON 2-APR-1992 AT 15:08  
 FILENAME MRCE024R.C1B RUN ID REPEAT SECTION PLOTTED ON 02-APR-1992 AT 15:19

COMPANY	BRINCO COAL MINING CORP.
WELL	92-024
FIELD	QUINSAM
PROVINCE/COUNTY	BRITISH COLUMBIA
COUNTRY/STATE	CANADA

