

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.

PERMANENT DATUM C.I.L.  
 LOC MEASURED FROM C.I.  
 DRILLING MEASURED FROM C.I.L.  
 DATE 21-MAR-92  
 RUN NUMBER ONE  
 DEPTH-DRILLER 70.5 M  
 DEPTH-LOGGER 70.5 M  
 FIRST READING 0  
 LAST READING 4.4 M  
 CASING-DRILLER 4.4 M  
 CASING-LOGGER 5.5 M  
 BIT SIZE 5.5"  
 HOLE FLUID TYPE WATER  
 DENS./VISC. 1.1  
 FRESH FLUID LOSS  
 SAMPLE SOURCE  
 RH e MEAS TEMP  
 RH e MEAS TEMP  
 RH e MEAS TEMP  
 SOURCE RH/IR/INC  
 RH e BHT  
 TIME SINCE CIRC  
 MAX REC TEMP  
 EQUIPMENT/BASE V223 REFERER  
 RECORDED BY JCB  
 WITNESSED BY

RUN NUMBER	BOTH RECORD			CASING RECORD			
	BIT	FROM	TO	SIZE	DEPTH	FROM	TO
ONE	5.5"	30.0 M	70.5 M	7"		0	4.4 M

EQUIPMENT	RUN 1	RUN 2	RUN 3	RUN 4
DD1	101			

**REMARKS**

CAMMA RAY CALIPER      BED RESOLUTION DENSITY      SLOPE UNIT

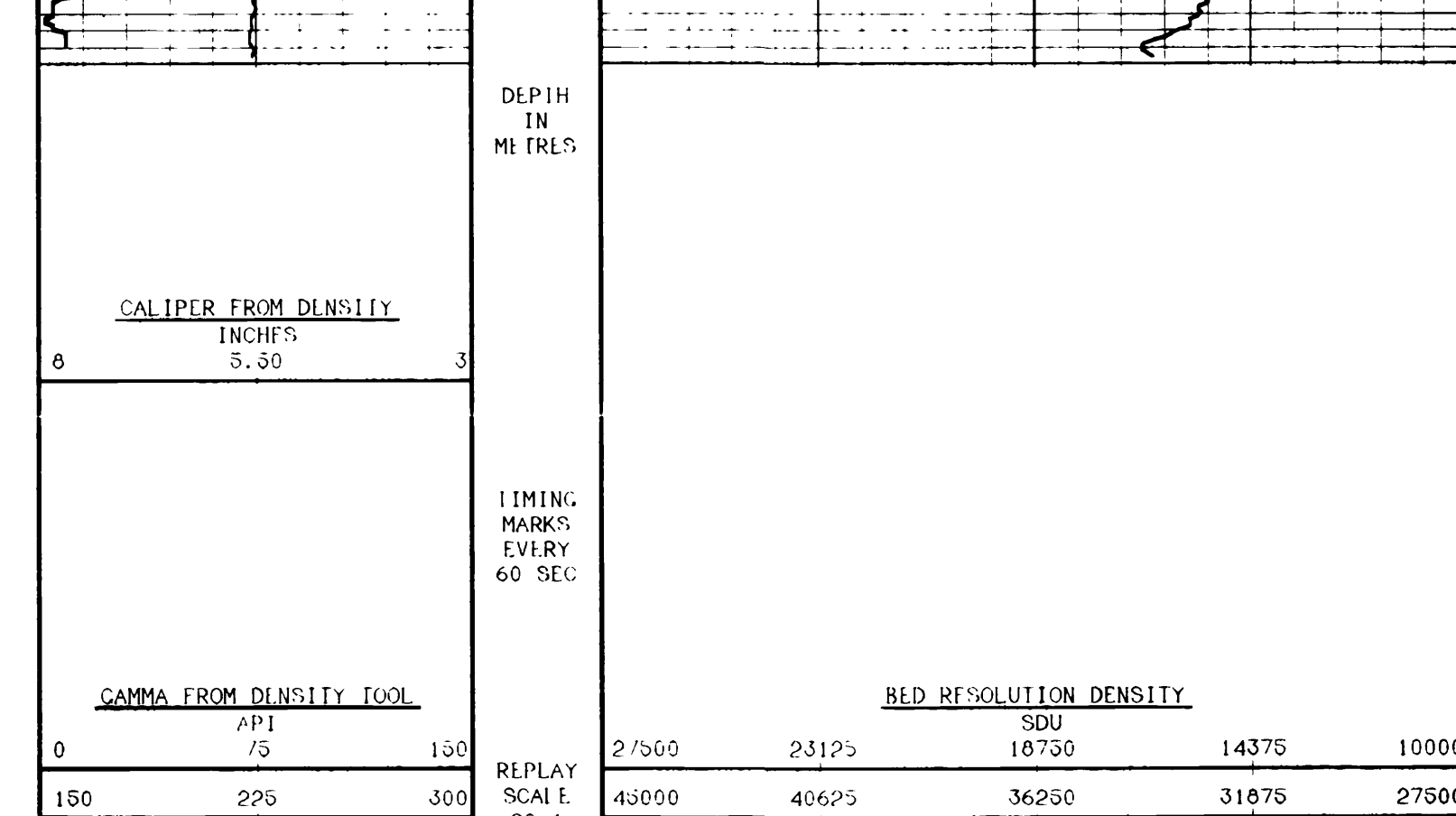
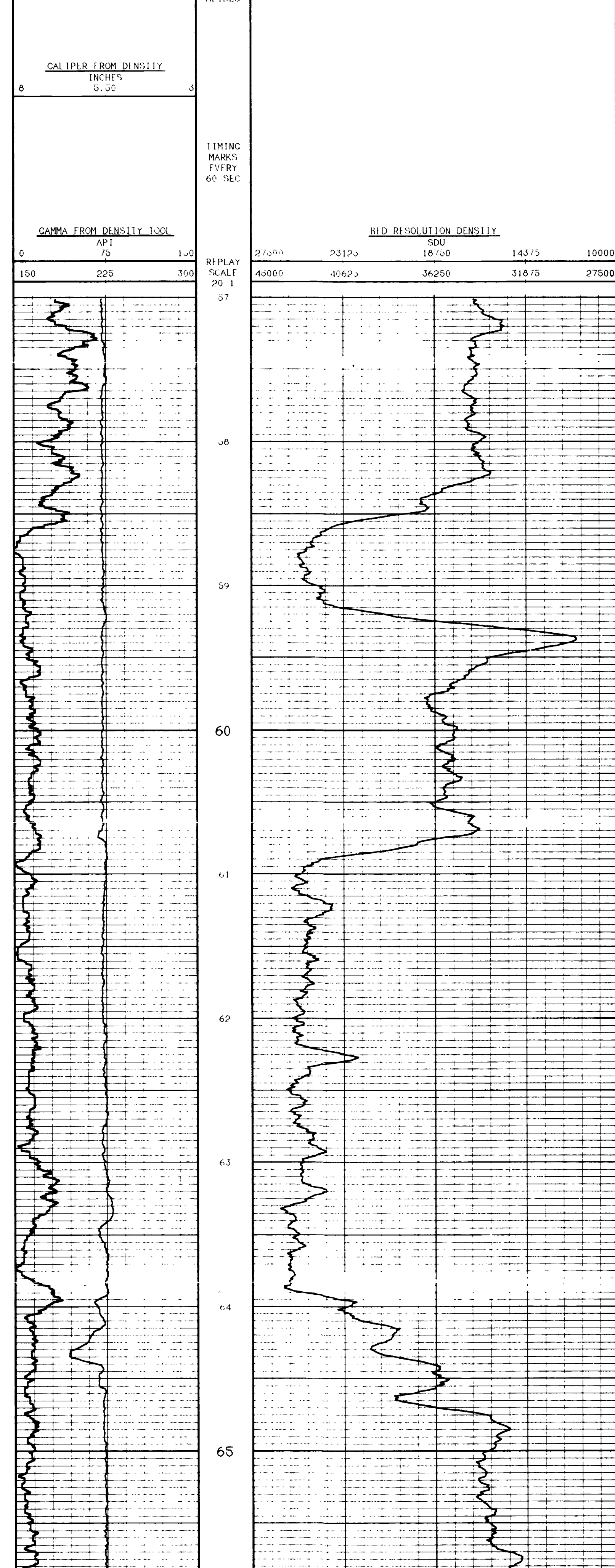
N 103 526.20      E 99 883.33

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, 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**

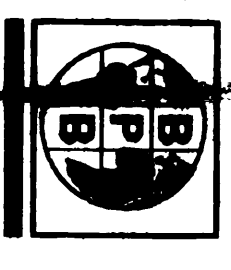
DEPTH BASED DATA - MAXIMUM SAMPLING INCREMENT 1CM. RECORDED ON 21-MAR-1992 AT 10 09  
 FILENAME DD3A001A.CIB RUN ID DETAIL LOG PLOTTED ON 31-MAR-1992 AT 17 24



DEPTH BASED DATA - MAXIMUM SAMPLING INCREMENT 1CM. RECORDED ON 21-MAR-1992 AT 10 09  
 FILENAME DD3A001A.CIB RUN ID DETAIL LOG PLOTTED ON 31-MAR-1992 AT 17 24

**DETAIL LOG**

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



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

LOCATION CAMPBELL RIVER PERM/CO. BRITISH COLUMBIA QUINSAM WELL 92-002 COMPANY BRINCO COAL MINING CORP.	COMPANY BRINCO COAL MINING CORP. WELL 92-002 FIELD QUINSAM PROVINCE/COUNTY BRITISH COLUMBIA COUNTRY/STATE CANADA	LOCATION CAMPBELL RIVER OTHER SERVICES DIPHONER FH
PERMANENT DATUM CL LOC. MEASURED FROM CL DRILLING MEASURED FROM CL 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"	ELEVATION 510.96 M ABOVE PERMANENT DATUM KB CL 510.96 M	FITTINGS CL
IDOL FLUID TYPE WATER DENS. AISC 1.1 PRIV. UT. LOSS N/A SAMPLE SOURCE N/A RHT @ MEAS TEMP N/A RMC @ MEAS TEMP N/A SOURCE: RHT / RMC RHT @ RHT TIME SINCE CIRC MAX RHT TEMP EQUILIBRIUM BASE V223 RIDER RECORDED BY JCV ATTENDED BY		

RUN NUMBER	BOREHOLE RECORD			CASING RECORD			
	BIT	FROM	TO	SIZE	WEIGHT	FROM	TO
ONE	3.5"	13.0 M	77.0 M	7"		0	10.5 M

EQUIPMENT	RUN 1	RUN 2	RUN 3	RUN 4
DD1	116			

**REMARKS**

CAMMA RAY CALIPER      BED RESOLUTION DENSITY      SLIMLINE UNIT

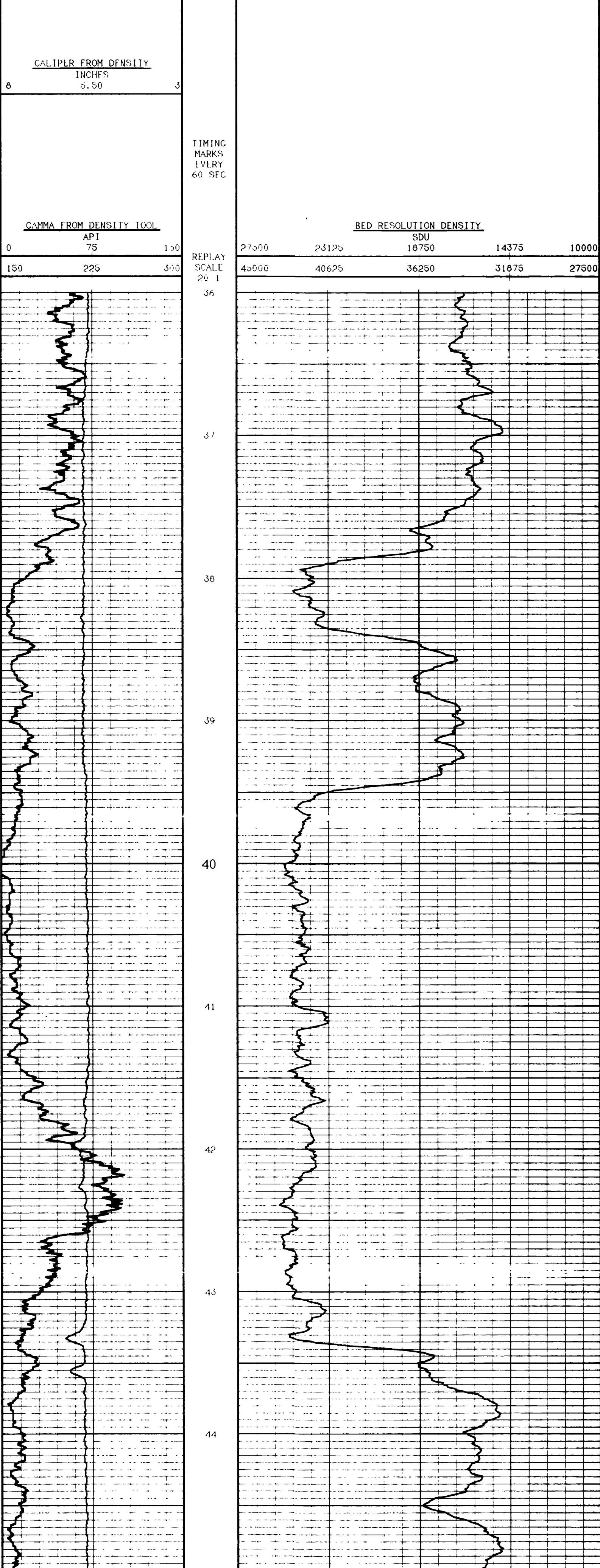
N 103 394.909      1 99 .65.103

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

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**DETAIL LOG**

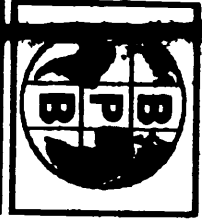
DEPTH BASED DATA - MAXIMUM SAMPLING INCREMENT 1CM.      RECORDED ON 21-MAR-1992 AT 14 40  
 FILENAME DD3A002A.CIB      RUN ID DETAIL LOG      PLOTTED ON 01-APR-1992 AT 05 17



DEPTH BASED DATA - MAXIMUM SAMPLING INCREMENT 1CM.      RECORDED ON 21-MAR-1992 AT 14 40  
 FILENAME DD3A002A.CIB      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  
PRVNC/CO. BRITISH COLUMBIA  
FIELD QUINSAM  
WELL 92-003  
COMPANY BRINCO COAL MINING CORP.  
PROVINCE/COUNTY BRITISH COLUMBIA  
COUNTRY/STATE CANADA

PERMANENT DATUM CL. ELEVATION 315.00 M  
LOG MEASURED FROM CL. ABOVE PERMANENT DATUM  
DRILLING MEASURED FROM CL. ELEVATION 315.00 M  
DATE 21-MAR-92  
RUN NUMBER ONE  
DEPTH-DRILLER 03.5 M  
DEPTH-COCKER 03.2 M  
LAST READING 0  
CASING-DRILLER 4.4 M  
CASING-COCKER 4.4 M  
BIT SIZE 5.5"

HOLE FLUID TYPE WATER  
DEBRIS/LOSS 1.1  
PH/LUID 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 # BIT  
TIM SINCE CIRC  
EQUIPMENT/BASE V233 REDEER  
RECORDED BY JCV  
CHECKED BY

RUN NUMBER	BOREHOLE RECORD			CASING RECORD			
	BIT	FROM	TO	SIZE	WEIGHT	FROM	TO
ONE	5.5"	36.4 M	83.5 M	7"		0	6 M

EQUIPMENT	RUN 1	RUN 2	RUN 3	RUN 4
DDI	110			

**REMARKS**

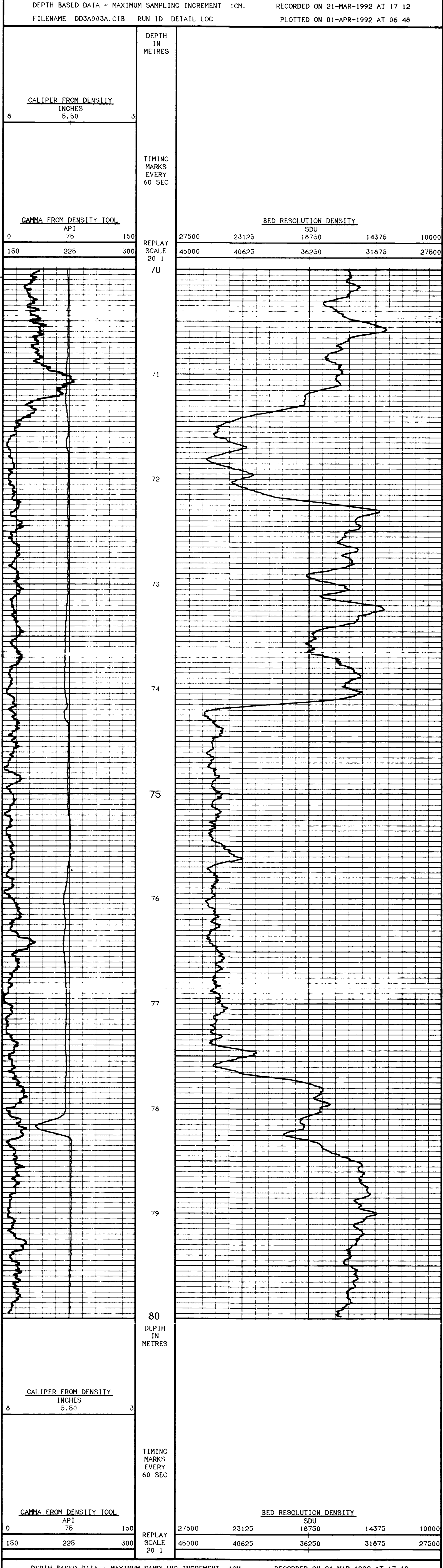
GAMMA RAY CALIPER      BED RESOLUTION DENSITY      SLIMLINE UNIT

N 103 452.167      E 100 052.441

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

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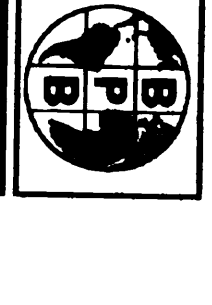
**DETAIL LOG**



**DETAIL LOG**

COMPANY BRINCO COAL MINING CORP.  
WELL 92-003  
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 92-005 COMPANY BRINCO COAL MINING CORP. PROVINCE/COUNTY BRITISH COLUMBIA COUNTRY/STATE CANADA	LOCATION CAMPBELL RIVER LST SLC TYP RCD OTHER SERVICES DIMPETER H.F.
PERMANENT DATUM CI LOC. MEASURED FROM CI DRILL LINC MEASURED FROM CI DATE 22-MAR-92	ELEVATION 311.95 M ABOVE PERMANENT DATUM K8 CI 311.90 M
RUN NUMBER ONE DEPTH-DRILLER 78.4 M DEPTH-LOGGER 77.2 M FIRST READING 77.2 M LAST READING 77.2 M CASING-DRILLER 5.7 M CASING-LOGGER 5.7 M BIT SIZE 5.5"	HOLE FLUID TYPE WATER DENSG./VISC. 1.1 PH/FLUID LOSS N/A SAMPLE SOURCE N/A RMT @ MEAS TEMP N/A RMT @ MEAS TEMP N/A SOURCE RMT/RMC N/A RMT @ BIT TIME SINCE CIRC N/A MAX REC TEMP N/A EQUIPMENT/BASE V223 R DETR RECORDED BY JCV WITNESSED BY

RUN NUMBER	BOREHOLE RECORD		CASING RECORD			
	BIT	FROM TO	SIZE	WEIGHT	FROM	TO
ONE	5.5"	33.4 M 8.4 M	7"		0	5.7 M

EQUIPMENT	RUN 1	RUN 2	RUN 3	RUN 4
DD1	110			

**REMARKS**

GAMMA RAY CALIPER BED RESOLUTION DENSITY SLIMLINE UNIT

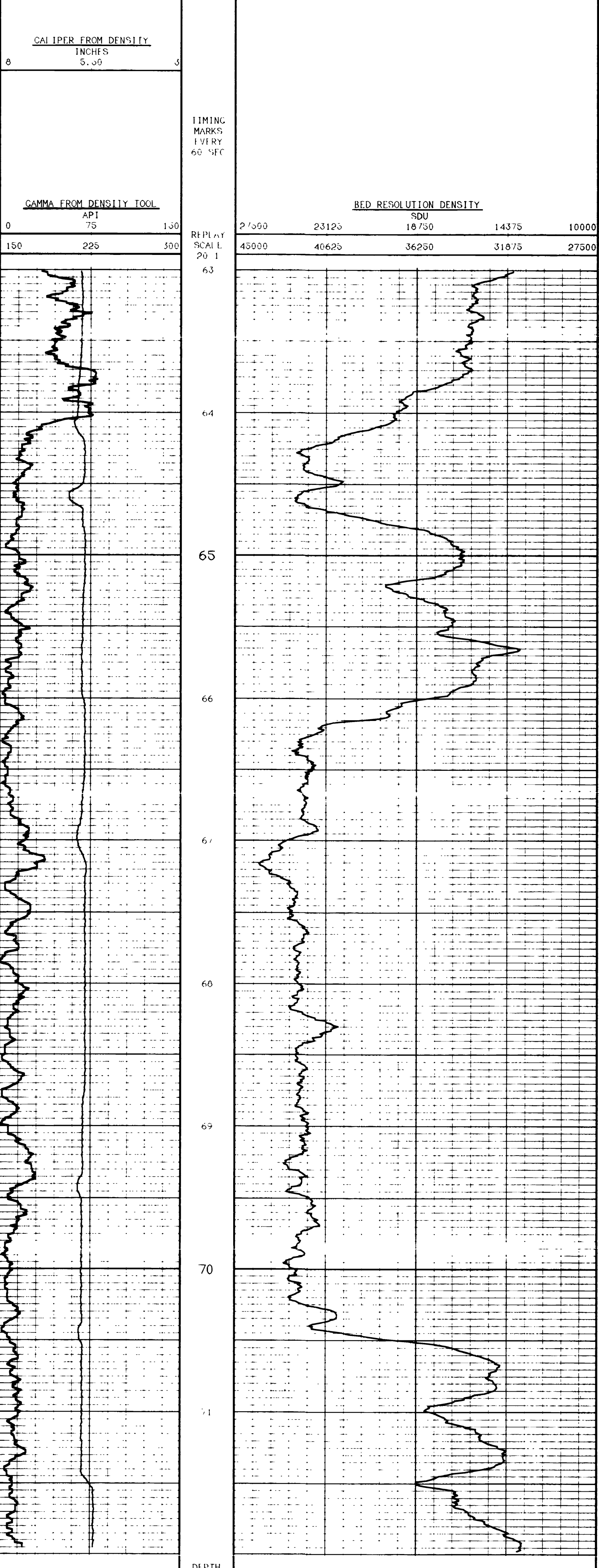
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SYSTEM CONFIGURATION DATE: LOGGED 13-MAR-1992 PROCESSED PLOTTED

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**DETAIL LOG**

DEPTH BASED DATA - MAXIMUM SAMPLING INCREMENT 1CM. RECORDED ON 22-MAR-1992 AT 14 24  
 FILENAME DD3A065A.C1B RUN ID DETAIL LOG PLOTTED ON 01-APR-1992 AT 10 26



DEPTH BASED DATA - MAXIMUM SAMPLING INCREMENT 1CM. RECORDED ON 22-MAR-1992 AT 14 24  
 FILENAME DD3A065A.C1B 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



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

LOCATION: CAMPBELL RIVER PRVNC/CO.: BRITISH COLUMBIA FIELD: QUINSAM WELL: 92-006 COMPANY: BRINCO COAL MINING CORP.	COMPANY: BRINCO COAL MINING CORP. WELL: 92-006 FIELD: QUINSAM PROVINCE/COUNTY: BRITISH COLUMBIA COUNTRY/STATE: CANADA
PERMANENT DATUM CL: 22-MAR-92 LOC MEASURED FROM CL: ONE DRILLING MEASURED FROM CL: 94.0 M DATE: 22-MAR-92 RUN NUMBER: 110 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: 10.5 M BIT SIZE: 5.5"	LOCATION: CAMPBELL RIVER OTHER SERVICES: DIPMEIER FE ELEVATION ABOVE PERMANENT DATUM: 228.22 M KB CL: 310.23 M DI CL: 310.23 M
HOLE FLUID TYPE: WATER DENS. VISC.: 1.1 PH/FLUID LOSS: N/A SAMPLE SOURCE: N/A EM @ MEAS TEMP: N/A RMF @ MEAS TEMP: N/A RMC @ MEAS TEMP: N/A SOURCE: RMF/RMC EM @ BHT: N/A TIME SINCE CIRC: N/A MAX REC TEMP: N/A 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"	60.2 M	94.0 M	7"		0	10.0 M

EQUIPMENT	RUN 1	RUN 2	RUN 3	RUN 4
DD1	110			

**REMARKS**

GAMMA RAY CALIPER      BED RESOLUTION DENSITY      SLIMLINE UNIT

N 103 222.07      I 100 107.06

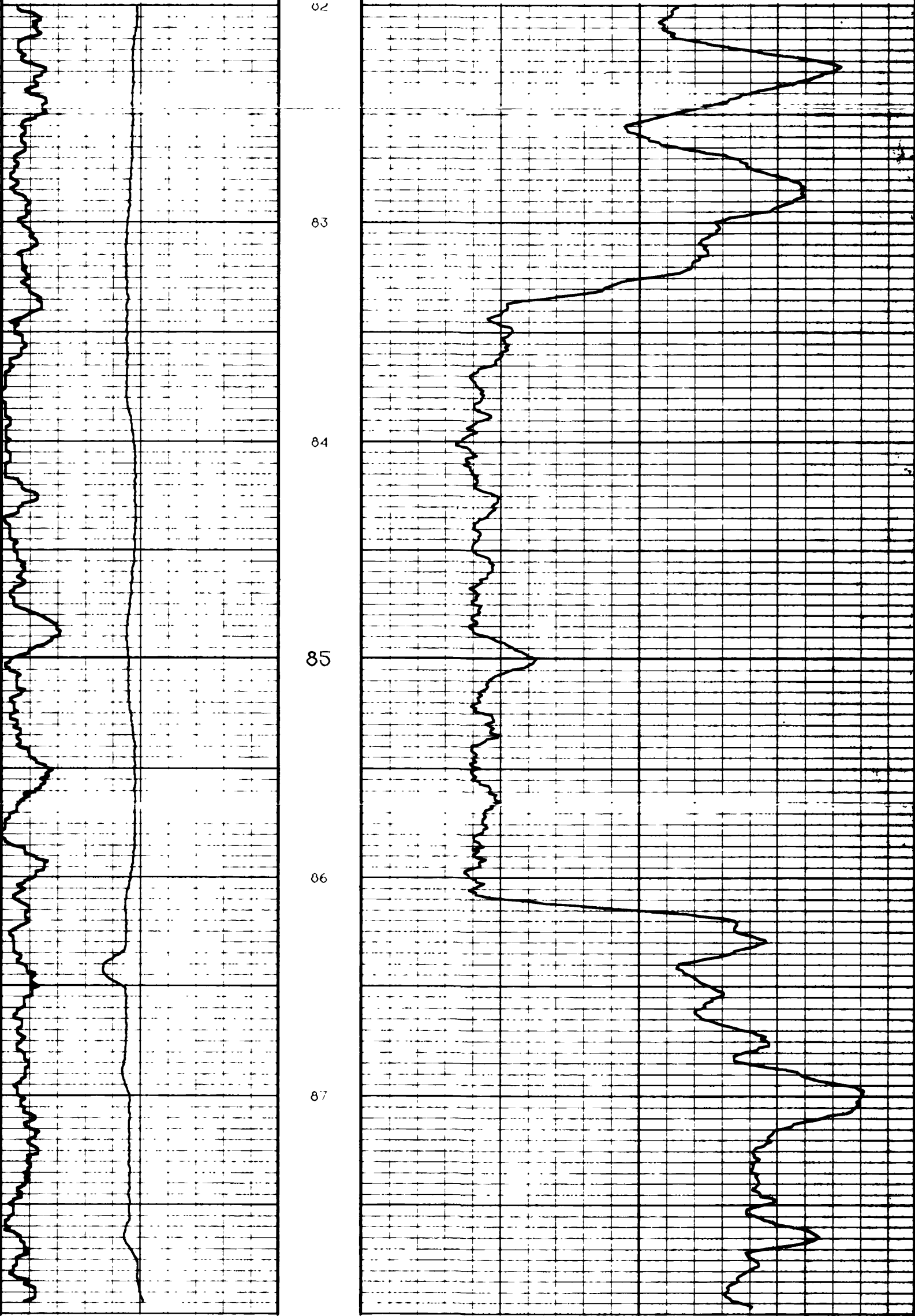
SYSTEM CONFIGURATION DATES: LOCCED 13-MAR-1992      PROCESSED      PLOTTED

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**DETAIL LOG**

DEPTH BASED DATA - MAXIMUM SAMPLING INCREMENT 1CM.      RECORDED ON 22-MAR-1992 AT 15:59  
 FILENAME DD3A006A.CIB      RUN ID DETAIL LOC      PLOTTED ON 01-APR-1992 AT 11:39

CALIPER FROM DENSITY INCHES 0      3	DEPTH IN METRES	
GAMMA FROM DENSITY TOOL API 0      150 150      225      300	TIMING MARKS EVERY 60 SEC	BED RESOLUTION DENSITY SDU 27500      23125      18750      14375      10000 45000      40625      36250      31875      27500

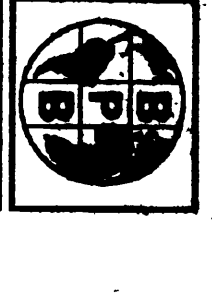


CALIPER FROM DENSITY INCHES 0      3	DEPTH IN METRES	
GAMMA FROM DENSITY TOOL API 0      150 150      225      300	TIMING MARKS EVERY 60 SEC	BED RESOLUTION DENSITY SDU 27500      23125      18750      14375      10000 45000      40625      36250      31875      27500

DEPTH BASED DATA - MAXIMUM SAMPLING INCREMENT 1CM.      RECORDED ON 22-MAR-1992 AT 15:59  
 FILENAME DD3A006A.CIB      RUN ID DETAIL LOC      PLOTTED ON 01-APR-1992 AT 11:38

**DETAIL LOG**

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



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

LOCATION PRVNC/CO. BRITISH COLUMBIA FIELD QUINSAM VELL. 92-007 COMPANY BRINCO COAL MINING CORP.	COMPANY BRINCO COAL MINING CORP. WELL 92-007 FIELD QUINSAM PROVINCE/COUNTY BRITISH COLUMBIA COUNTRY/STATE CANADA	LOCATION CAMPBELL RIVER OTHER SERVICES DIPMETER H.E.
PERMANENT DATUM CL LOG MEASURED FROM CL DRILLING MEASURED FROM CL	ELEVATION 321.65 M ABOVE PERMANENT DATUM	KB ELEVATIONS CL 321.65 M
DATE 23-MAR-92 RUN NUMBER ONE DEPTH-DRILLER 79.9 M DEPTH-LOGGER 78.8 M FIRST READING 0 LAST READING 6.0 M CASING-DRILLER 2.3 M CASING-LOGGER 5.3 M BIT SIZE WATER HOLE FLUID TYPE WATER DENS./VISC. 1.1 PH/FLUID LOSS N/A SAMPLE SOURCE N/A RM @ MEAS TEMP RMC @ MEAS TEMP SOURCE RM/RMC RM @ BIT TIME SINCE CIRC MAX REC TEMP EQUIPMENT/BASE RECORDED BY V223 REDDER WITNESSED BY JCV		

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**

GAMMA RAY CALIPER      BED RESOLUTION DENSITY      SLIMLINE UNIT

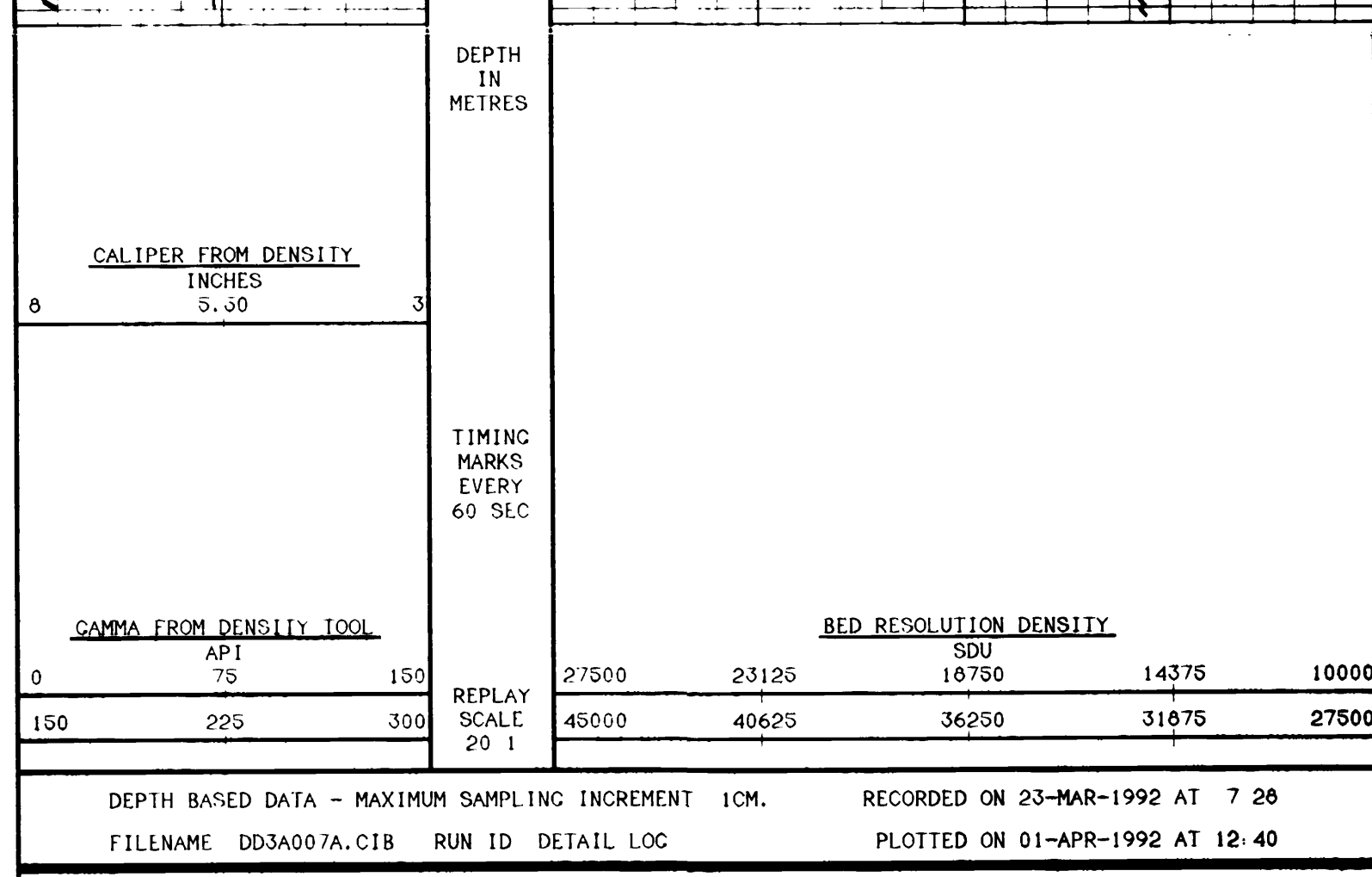
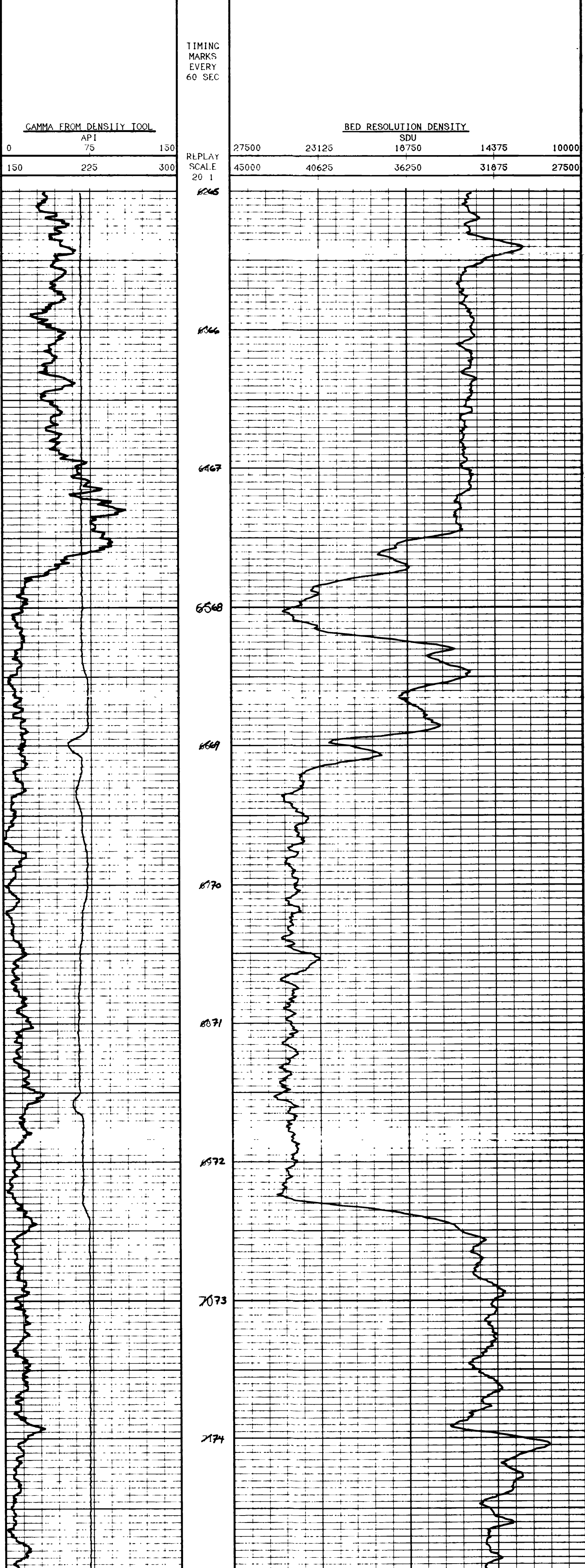
N 102 999.499      E 99 868.12

SYSTEM CONFIGURATION DATES    LOGGED 13-MAR-1992    PROCESSED    PLOTTED

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**DETAIL LOG**

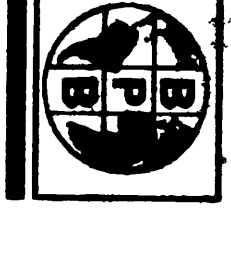
DEPTH BASED DATA - MAXIMUM SAMPLING INCREMENT 1CM.      RECORDED ON 23-MAR-1992 AT 7.28  
 FILENAME DD3A007A.CIB    RUN ID DETAIL LOG      PLOTTED ON 01-APR-1992 AT 12.42



DEPTH BASED DATA - MAXIMUM SAMPLING INCREMENT 1CM.      RECORDED ON 23-MAR-1992 AT 7.28  
 FILENAME DD3A007A.CIB    RUN ID DETAIL LOG      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**

LOCATION	CAMPBELL RIVER	OTHER SERVICES	
PRVNC/CO.	BRITISH COLUMBIA	DIPMETER	FE
FIELD	QUINSAM		
WELL	92-008		
COMPANY	BRINCO COAL MINING CORP.		
PROVINCE/COUNTRY	BRITISH COLUMBIA		
COUNTRY/STATE	CANADA		
PERMANENT DATUM	CL	ELEVATION 328.56 M	
LOG MEASURED FROM	CL	ABOVE PERMANENT DATUM	
DRILLING MEASURED FROM	CL	ELEVATIONS	KB CL 328.56 M
DATE	23-MAR-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		
RH @ MEAS. TEMP.			
RH @ MEAS. TEMP.			
RHC @ MEAS. TEMP.			
SOURCE RH/RHC			
RH @ BHT			
TIME SINCE CIRC			
MAX. RIG TEMP.			
EQUIPMENT/BASE	V23 R DEER		
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
DDI	110			

**REMARKS**

GAMMA RAY CALIPER      BED RESOLUTION DENSITY      SLIMLINE UNIT

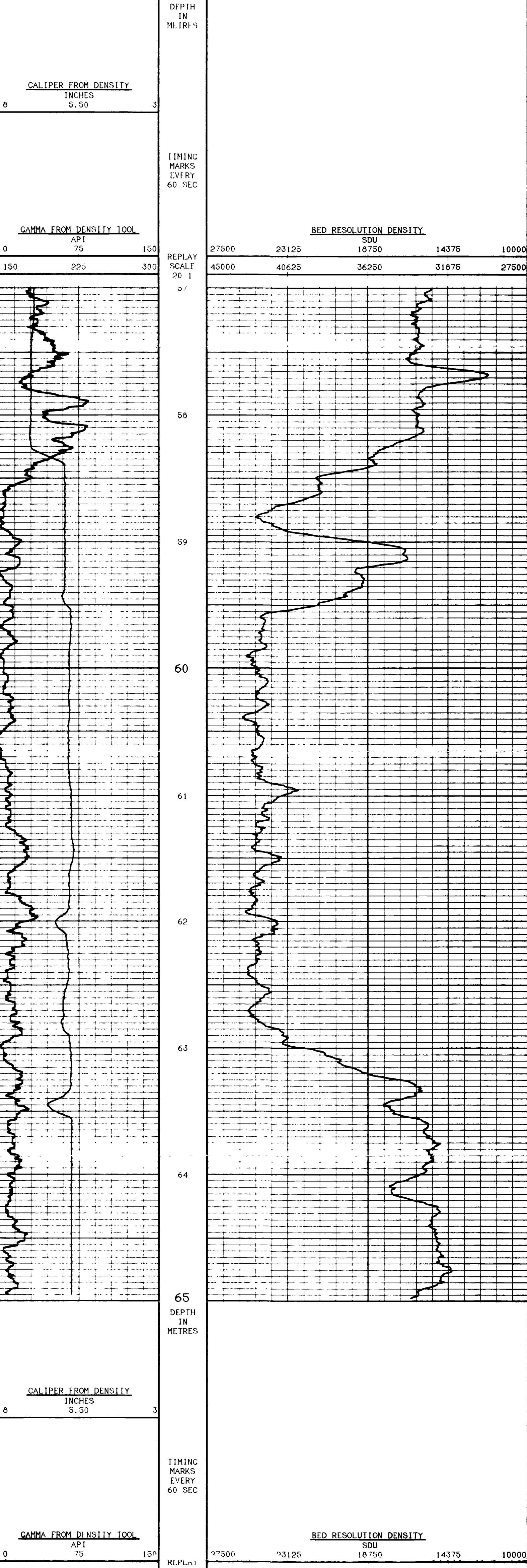
N 103 069.49    I 99 754.46

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.C1B    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.C1B    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/COUNTRY	BRITISH COLUMBIA
COUNTRY/STATE	CANADA









**GAMMA RAY  
BED RESOLUTION DENSITY  
SLIMLINE UNIT**

LOCATION CAMPBELL RIVER PRVNC/CO. BRITISH COLUMBIA FIELD QUINSAM WELL 92-012 COMPANY BRINCO COAL MINING CORP. PROVINCE/COUNTY BRITISH COLUMBIA COUNTRY/STATE CANADA	COMPANY BRINCO COAL MINING CORP. WELL 92-012 FIELD QUINSAM PROVINCE/COUNTY BRITISH COLUMBIA COUNTRY/STATE CANADA	LOCATION CAMPBELL RIVER OTHER SERVICES: DIRMETER F.F.
PERMANENT DATUM CL. ELEVATION 311.14 M LOC. MEASURED FROM CL. ABOVE PERMANENT DATUM DRILLING MEASURED FROM CL. CL. 311.14 M	LSD SLC TYP RCF	ELEVATIONS K8 CL. 311.14 M DF CL.
DATE 24-MAR-92 RUN NUMBER ONE DEPTH-DRILLER 64.7 M DEPTH-COCKER 63.7 M FIRST READING 63.7 M LAST READING 0 CASING-DRILLER 5.5 M CASING-COCKER 5.5 M BIT SIZE 5.5"	HOLE FLUID TYPE VAIR DENS./VISC. 1.1 R/P/LUID LOSS N/A SAMPLE SOURCE N/A RRF @ MEAS TEMP RMC @ MEAS TEMP SOURCE RHF/RMC RRF @ BHT TIME SINCE CIRC MAX REC TEMP EQUIPMENT/BASE V2231 REDEER RECORDED BY JCV WITNESSED BY	

RUN NUMBER	BOREHOLE RECORD			CASING RECORD			
	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	110			

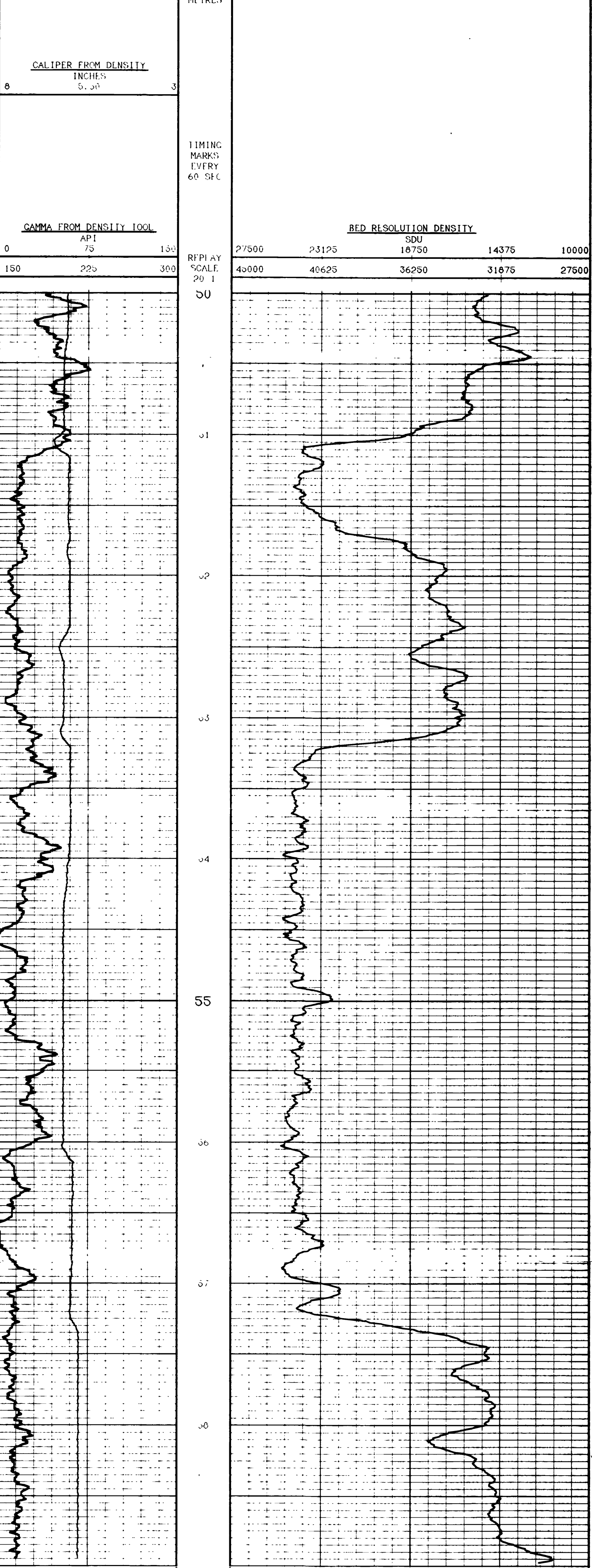
REMARKS		
GAMMA RAY	BED RESOLUTION DENSITY	SLIMLINE UNIT
N 103 431.04	E 99 006.67	

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.C1B RUN ID DETAIL LOG PLOTTED ON 01-APR-1992 AT 10 37



DEPTH IN METRES

CALIPER FROM DENSITY INCHES 5.50

GAMMA FROM DENSITY TOOL API 75 225

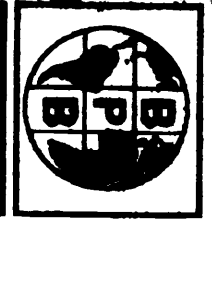
TIMING MARKS EVERY 60 SEC REPLAY SCALE 20.1

BED RESOLUTION DENSITY SDU 27500 23125 18750 14375 10000 45000 40625 36250 31875 27500

DEPTH BASED DATA - MAXIMUM SAMPLING INCREMENT 1CM. RECORDED ON 24-MAR-1992 AT 7 43  
 FILENAME DD3A012A.C1B RUN ID DETAIL LOG 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 BRINCO COAL MINING CORP.	COMPANY BRINCO COAL MINING CORP.
PRVNC/CO. BRITISH COLUMBIA	WELL 92-013
FIELD QUINSAM	PROVINCE/COUNTY BRITISH COLUMBIA
COUNTRY/STATE CANADA	OTHER SERVICES DIRMETER
MEASUREMENT DATE 23-MAR-92	ELEVATION 318.32 M ABOVE PERMANENT DATUM
LOG MEASURED FROM CL	DRILLING MEASURED FROM CL
DATE 23-MAR-92	RUN NUMBER ONE
DEPTH-DRILLER 106.0 M	DEPTH-LOGGER 103.0 M
FIRST READING 103.0 M	LAST READING 11.4 M
CASING-DRILLER 11.4 M	CASING-LOGGER 11.4 M
BIT SIZE 5.5"	HOLE FLUID TYPE WATER
WENS./VISC. 1.1	H/FLUID LOSS N/A
SAMPLE SOURCE N/A	M @ MEAS TEMP N/A
SING @ MEAS TEMP N/A	SOURCE BRN/RMC N/A
M @ BIT N/A	THE SLIME CONC N/A
M REC TEMP N/A	EQUIPMENT/FAST V233 REDFEE
RECORDED BY JCV	WITNESSED BY N/A

RUN NUMBER	BIT	FROM	TO	SIZE	WEIGHT	FROM	TO
ONE	5.5"	96.6 M	106.0 M	7"		0	11.4 M

EQUIPMENT	RUN 1	RUN 2	RUN 3	RUN 4
DD1	116			

**REMARKS**

GAMMA RAY CALIPER      BED RESOLUTION DENSITY      SLIMLINE UNIT

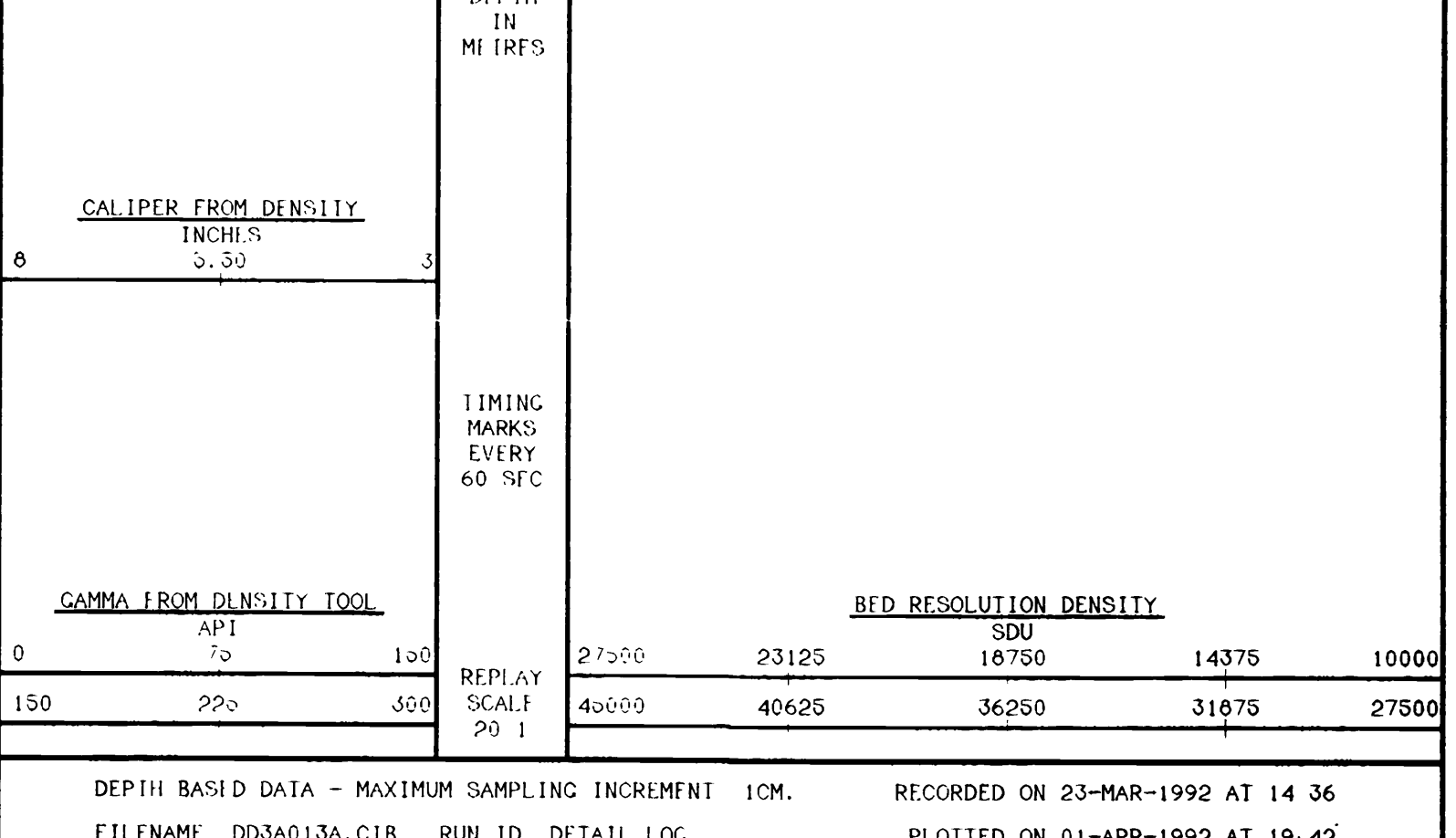
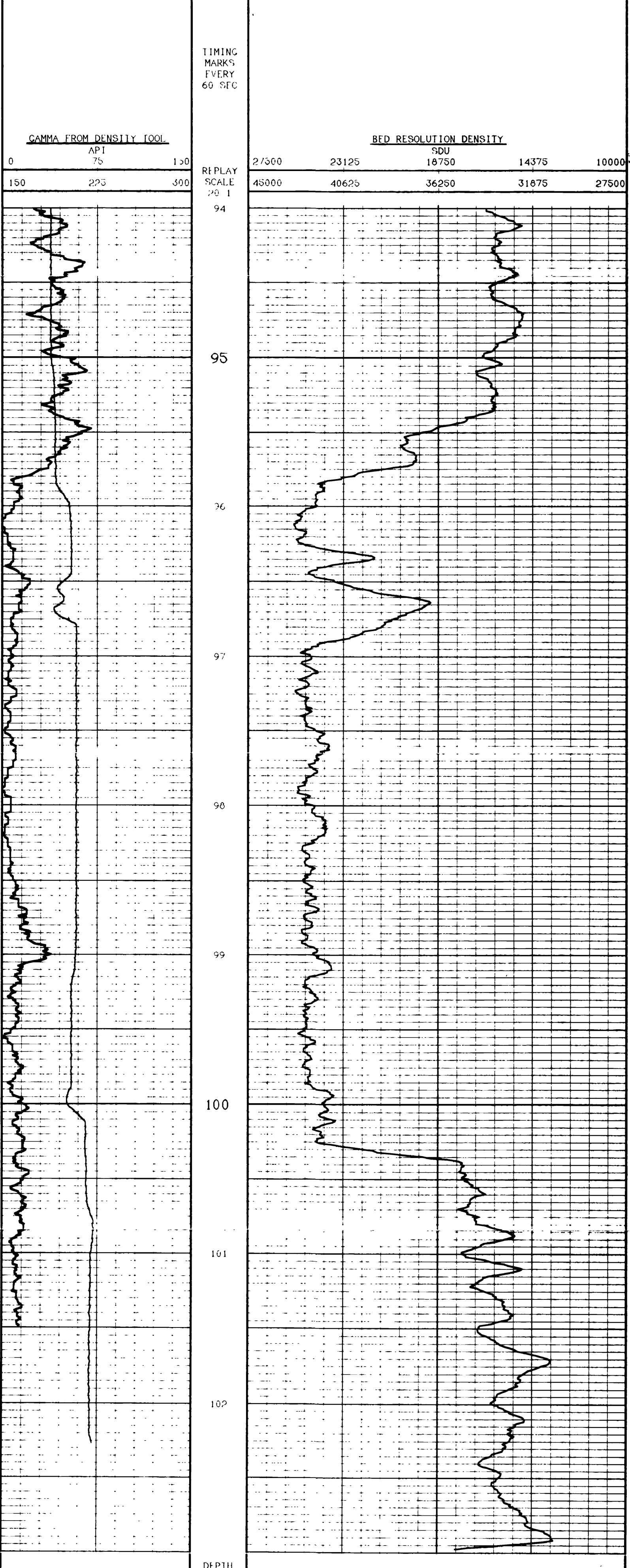
N 103 300.275      E 100 229.221

SYSTEM CONFIGURATION DATES    LOGGED 15-MAR-1992    PROCESSED    PLOTTED

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**DETAIL LOG**

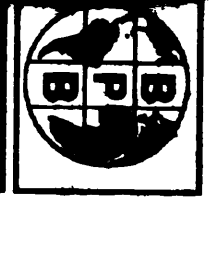
DEPTH BASED DATA - MAXIMUM SAMPLING INCREMENT 1CM.      RECORDED ON 23-MAR-1992 AT 14 36  
 FILENAME: DD3A013A.C1B      RUN ID: DETAIL LOG      PLOTTED ON 01-APR-1992 AT 19 43



DEPTH BASED DATA - MAXIMUM SAMPLING INCREMENT 1CM.      RECORDED ON 23-MAR-1992 AT 14 36  
 FILENAME: DD3A013A.C1B      RUN ID: DETAIL LOG      PLOTTED ON 01-APR-1992 AT 19 42

**DETAIL LOG**

COMPANY	BRINCO COAL MINING CORP.
WELL	92-013
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 92-014 COMPANY BRINCO COAL MINING CORP. PROVINCE/COUNTY BRITISH COLUMBIA COUNTRY/STATE CANADA	LOCATION CAMPBELL RIVER OTHER SERVICES DIMENSION FE
PERMANENT DATUM CL. 333.33 M ELEVATION 333.33 M ABOVE PERMANENT DATUM CL. 333.33 M	PERMANENT DATUM CL. 333.33 M ELEVATION 333.33 M ABOVE PERMANENT DATUM CL. 333.33 M
DATE 23-MAR-92 RUN NUMBER ONE DEPTH-DRILLER 116.3 M DEPTH-LOGGER 116.0 M FIRST READING 116.0 M CASTING-DRILLER 7.5 M CASTING-LOGGER 7.0 M BIT SIZE 5.5"	DATE 23-MAR-92 RUN NUMBER ONE DEPTH-DRILLER 116.3 M DEPTH-LOGGER 116.0 M FIRST READING 116.0 M CASTING-DRILLER 7.5 M CASTING-LOGGER 7.0 M BIT SIZE 5.5"
HOLE FLUID TYPE WATER TEMS. /VISC. 1.1 / N/A MFLUID LOSS N/A SAMPLE SOURCE N/A RM @ MEAS TEMP N/A RM @ MEAS TEMP N/A SOURCE RMF/RMC N/A RM @ BIT N/A TIME SINCE CIRC N/A LOG REC TEMP N/A EQUIPMENT/BASE V233 REDEER RECORDED BY JCV WITNESSED BY	HOLE FLUID TYPE WATER TEMS. /VISC. 1.1 / N/A MFLUID LOSS N/A SAMPLE SOURCE N/A RM @ MEAS TEMP N/A RM @ MEAS TEMP N/A SOURCE RMF/RMC N/A RM @ BIT N/A TIME SINCE CIRC N/A LOG REC TEMP N/A EQUIPMENT/BASE V233 REDEER RECORDED BY JCV WITNESSED BY

RUN NUMBER	BOREHOLE RECORD			CASING RECORD			
	BIT	FROM	TO	SIZE	WEIGHT	FROM	TO
ONE	3.5"	99.4 M	116.3 M	7"		0	7.5 M

EQUIPMENT	RUN 1	RUN 2	RUN 3	RUN 4
DD1	116			

REMARKS		
GAMMA RAY CALIPER	BED RESOLUTION DENSITY	SLIMLINE UNIT
N 103 348.00	E 100 231.00	

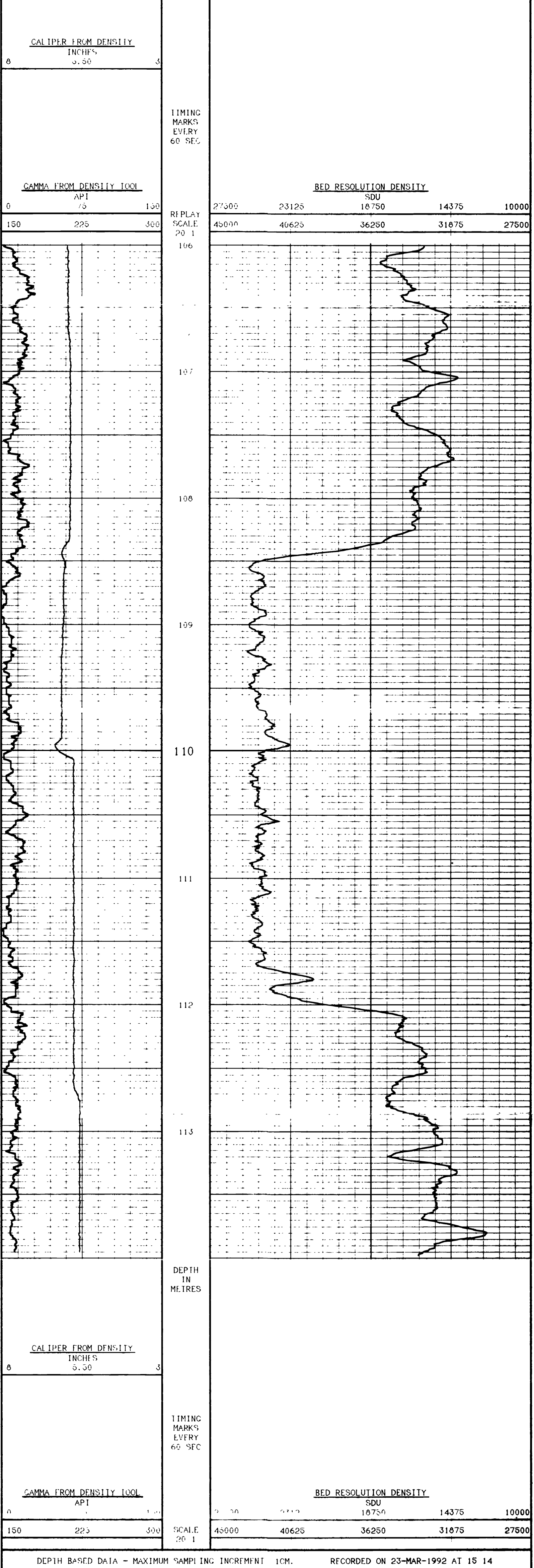
  

SYSTEM CONFIGURATION DATE	LOGGED 13-MAR-1992	PROCESSED	PLOTTED
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**DETAIL LOG**

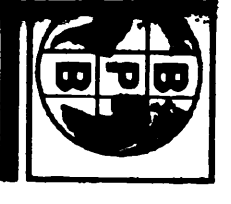
DEPTH BASED DATA - MAXIMUM SAMPLING INCREMENT 1CM. RECORDED ON 23-MAR-1992 AT 15 14  
 FILENAME DD3A014A.C1B RUN ID DETAIL LOG. PLOTTED ON 01-APR-1992 AT 22 00



DEPTH BASED DATA - MAXIMUM SAMPLING INCREMENT 1CM. RECORDED ON 23-MAR-1992 AT 15 14  
 FILENAME DD3A014A.C1B RUN ID DETAIL LOG. PLOTTED ON 01-APR-1992 AT 21 59

**DETAIL LOG**

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



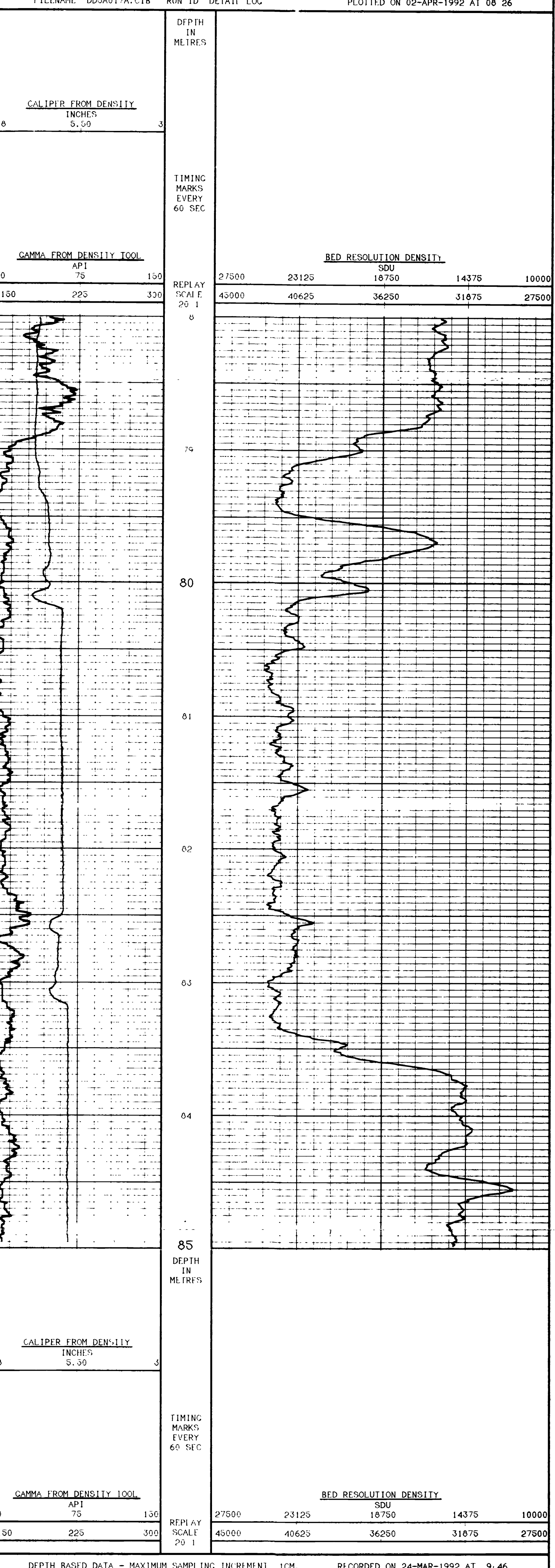
**GAMMA RAY, CALIPER  
BED RESOLUTION DENSITY  
SLIMLINE UNIT**

LOCATION	CAMPBELL RIVER	OTHER SERVICES	
PRVNC/CO.	BRITISH COLUMBIA	DIPMETER	FF
FIELD	QUINSAM		
WELL	92-017		
COMPANY	BRINCO COAL MINING CORP.		
PROVINCE/COUNTY	BRITISH COLUMBIA		
COUNTRY/STATE	CANADA		
PERMANENT DATUM CL.		ELEVATION 320.65/	
LOC MEASURED FROM CL.		ABOVE PERMANENT DATUM	
DRILLING MEASURED FROM CL.		KB CL.	90.00/ M
DATE	24-MAR-92		
RUN NUMBER	01F		
DIPMETER	91.2 M		
DIPMETER OCCUR	07.7 M		
FIRST READING	0		
LAST READING	2.6 M		
CASING-DRILLER	2.6 M		
CASING-LOGGER	2.6 M		
BIT SIZE	5.5"		
MOLE FLUID TYPE	WATER		
DIMS. AT LOG	1.1		
W/FLUID LOSS	N/A		
SAMPLE SOURCE	N/A		
RM @ MEAS TEMP			
RM @ MEAS TEMP			
RM @ MEAS TEMP			
RM @ MEAS TEMP			
SOURCE RHT/RMC			
RM @ BIT			
TIME SINCE CIRC			
MAX REC TEMP			
EQUIPMENT/BASE	V223 REDDEF		
RECORDED BY	JCV		
WITNESSED BY			

RUN NUMBER	BORFHOLE RECORD			CASING RECORD			
	B11	FROM	TO	SIZE	WEIGHT	FROM	TO
ONE	5.3"	79.5 M	91.2 M	7"		0	2.6 M
EQUIPMENT		RUN 1	RUN 2	RUN 3	RUN 4		
DD1		110					
<b>REMARKS</b>							
GAMMA RAY CALIPER      BED RESOLUTION DENSITY      SLIMLINE UNIT							
N 102 73.315      F 99 906.329							
SYSTEM CONFIGURATION DATE: 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 9:46  
 FILENAME DD3A017A.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



# 815

RD 165  
SL.

<b>LOCATION</b> CAMPBELL PRVNC/CO. BRITISH COLUMBIA FIELD QUINSAM WELL 92-018 COMPANY BRINCO COAL MINING CORP. PROVINCE/COUNTY BRITISH COLUMBIA COUNTRY/STATE CANADA		COMPANY BRINCO COAL MINING CORP. WELL 92-018 FIELD QUINSAM PROVINCE/COUNTY BRITISH COLUMBIA COUNTRY/STATE CANADA	
<b>LOCATION</b> CAMPBELL RIVER LSD SFC TYP RCF OTHER SERVICES DIPMEIER FE		PERMANENT DATUM CL ELEVATION 311.222 M LOC MEASURED FROM CL ABOVE PERMANENT DATUM DRILLING MEASURED FROM CL DATE 24-MAR-92 RUN NUMBER ONE DEPTH-DRILLER 90.0 M DEPTH-LOGGER 90.2 M LAST READING 90.2 M CASING-DRILLER 5.9 M CASING-LOGGER 5.9 M BIT SIZE 5.5"	
ELEVATION 311.222 M K8 OF CL 1.222 M		PERMANENT DATUM CL LOC MEASURED FROM CL DRILLING MEASURED FROM CL	
PERMANENT DATUM CL LOC MEASURED FROM CL DRILLING MEASURED FROM CL		PERMANENT DATUM CL LOC MEASURED FROM CL DRILLING MEASURED FROM CL	

RUN NUMBER	BOREHOLE RECORD			CASING RECORD		
	BIT	FROM	TO	SIZE	WEIGHT	FROM TO
ONE	5.5"	60.8 M	90.0 M	7"		0 5.9 M

EQUIPMENT	RUN 1	RUN 2	RUN 3	RUN 4
DD1	110			

**REMARKS**

CAMMA RAY CALIPER      BED RESOLUTION DENSITY      SLIMLINE UNIT

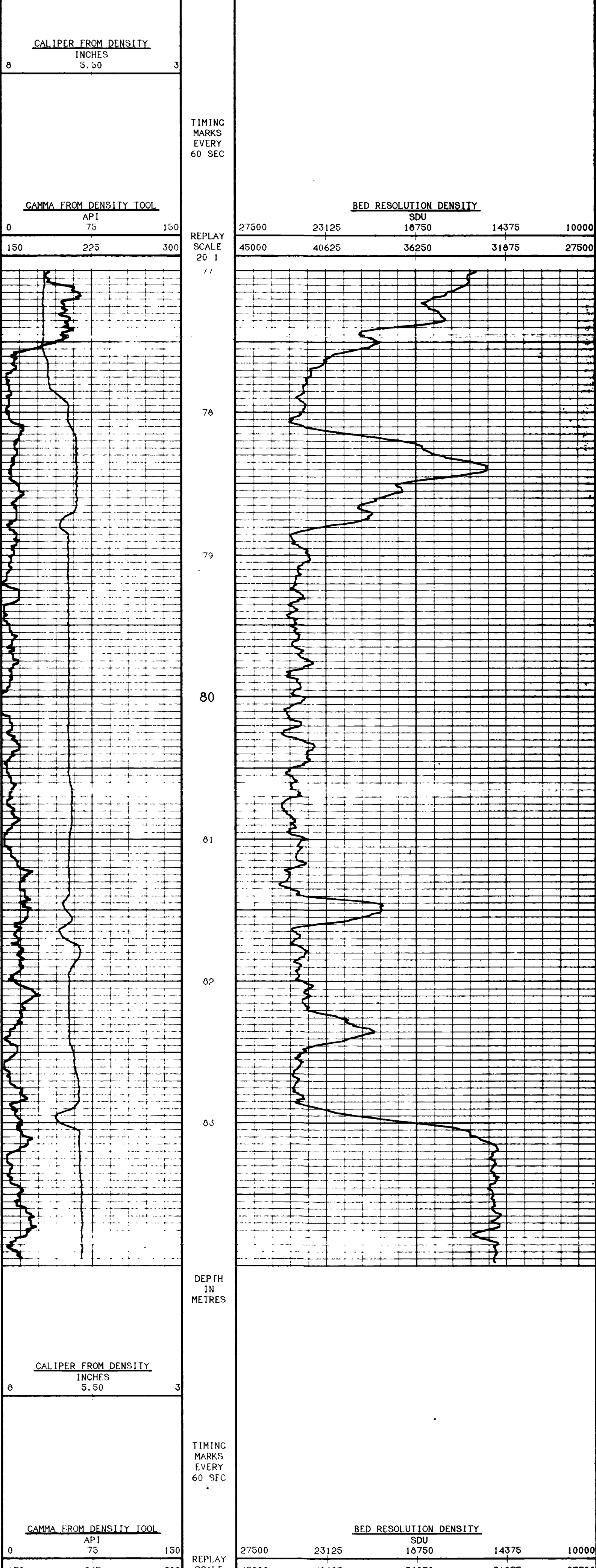
N 102 736.789      E 100 030.852

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 10:31  
 FILENAME DD3A018A.CIB    RUN ID DETAIL LOC      PLOTTED ON 02-APR-1992 AT 09:50



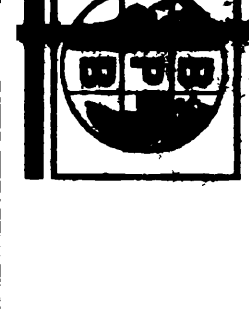
DEPTH BASED DATA - MAXIMUM SAMPLING INCREMENT 1CM.      RECORDED ON 24-MAR-1992 AT 10:31  
 FILENAME DD3A018A.CIB    RUN ID DETAIL LOC      PLOTTED ON 02-APR-1992 AT 09:49

**DETAIL LOG**

COMPANY	BRINCO COAL MINING CORP.
WELL	92-018
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		
PROVINCE/COUNTY	BRITISH COLUMBIA		
COUNTRY/STATE	CANADA		
LOCATION	CAMPBELL RIVER		
PRVNC/CO.	BRITISH COLUMBIA		
FIELD	QUINSAM		
PERMANENT DATUM			
WELL	92-002		
COMPANY	BRINCO COAL MINING CORP.		
LOCATION	CAMPBELL RIVER		
OTHER SERVICES	DIPMEETER		
LD	SEC	TYP	RCE
ELEVATION 310.96 M			
LOC MEASURED FROM CL		ABOVE PERMANENT DATUM	
DRILLING MEASURED FROM CL			
DATE	31-MAR-92		
RUN NUMBER	ONE		
DEPTH-ORILLER	77.0 M		
DEPTH-LOGGER	77.0 M		
FIRST READING	77.0 M		
LAST READING	0		
CASING-DRILLER	4.4 M		
CASING-LOGGER	4.4 M		
BIT SIZE	5.5"		
HOLE FLUID TYPE	WATER		
DENS/VISC.	1.1		
PIV/FLUID LOSS	N/A		
SAMPLE SOURCE	N/A		
RRF * HEAS TEMP			
RRF * HEAS TEMP			
RRF * HEAS TEMP			
SOURCE RRF/RMC			
RRF * BHT			
TIME SINCE CIRC			
MAX LOG TEMP			
EQUIPMENT/BASE	V223 REDEBER		
RECORDED BY	JCV		
UTTERED BY			

RUN NUMBER	BOREHOLE RECORD			CASING RECORD			
	BIT	FROM	TO	SIZE	WEIGHT	FROM	TO
ONE	5.5"	13.0 M	77.0 M	7"		0	10.6 M

EQUIPMENT	RUN 1	RUN 2	RUN 3	RUN 4
DDI	110			

**REMARKS**

GAMMA RAY CALIPER LONG SPACED DENSITY SLIMLINE UNIT

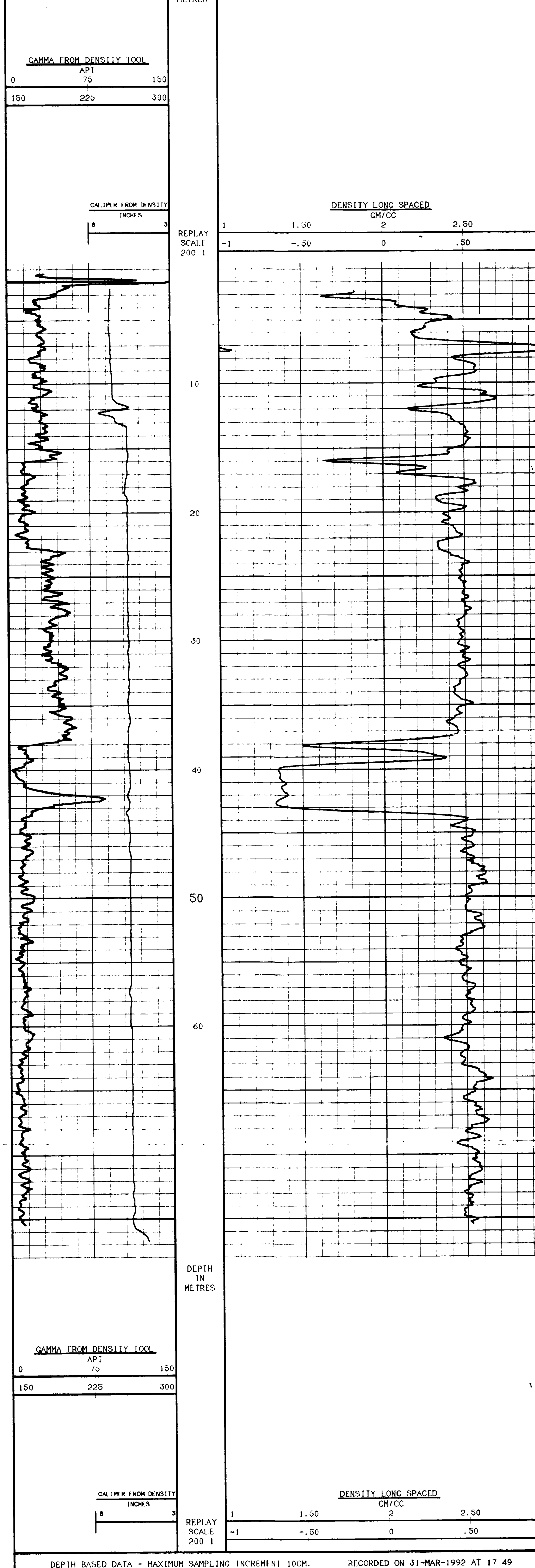
N 103 394.909 E 99 765.105

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 17 49  
 FILENAME MRCE002M.C1B RUN ID MAIN LOG PLOTTED ON 31-MAR-1992 AT 18 11

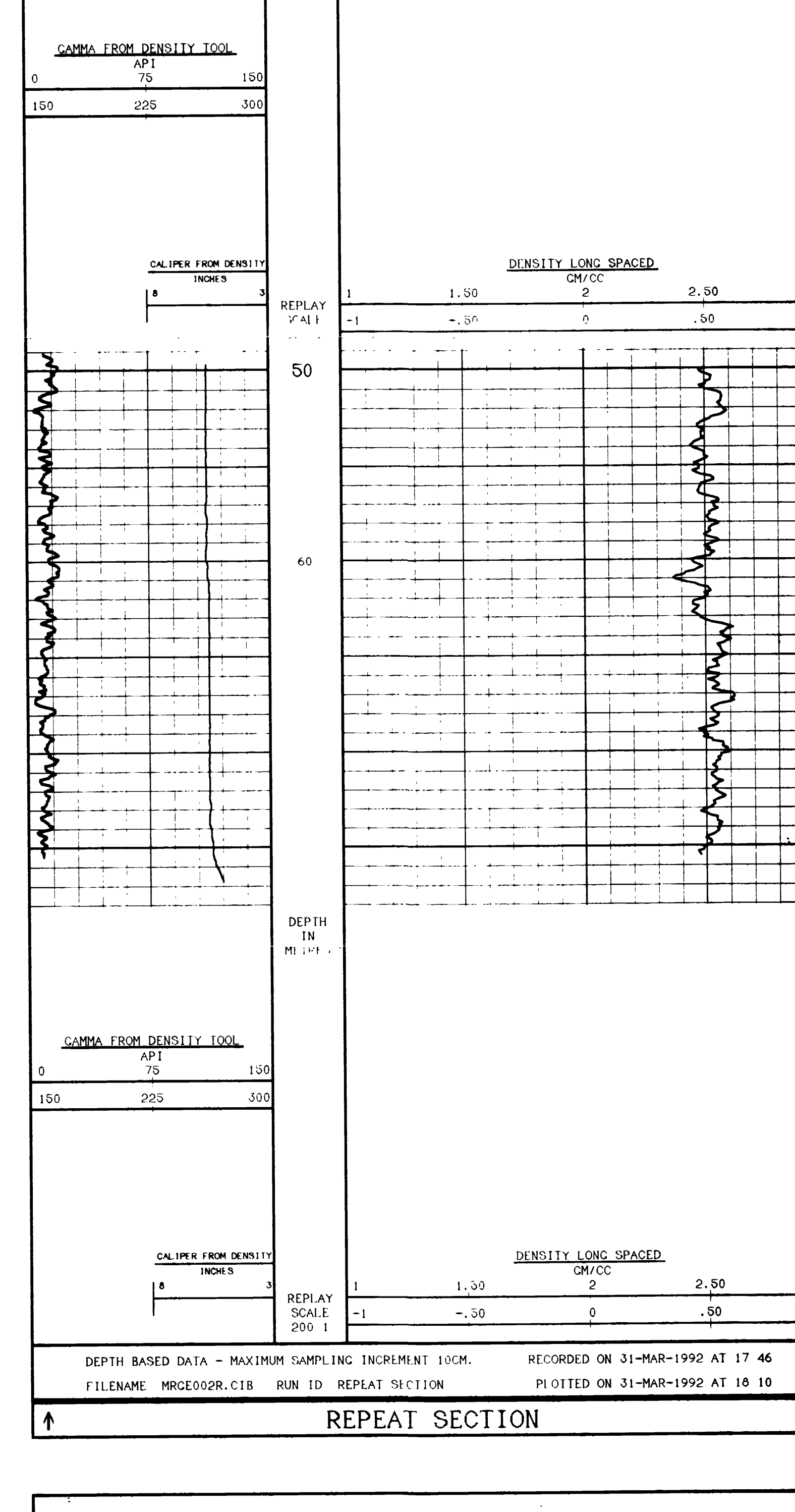


DEPTH BASED DATA - MAXIMUM SAMPLING INCREMENT 10CM. RECORDED ON 31-MAR-1992 AT 17 49  
 FILENAME MRCE002M.C1B RUN ID MAIN LOG PLOTTED ON 31-MAR-1992 AT 18 11

**MAIN LOG**

**REPEAT SECTION**


DEPTH BASED DATA - MAXIMUM SAMPLING INCREMENT 10CM. RECORDED ON 31-MAR-1992 AT 17 46  
 FILENAME MRCE002R.C1B RUN ID REPEAT SECTION PLOTTED ON 31-MAR-1992 AT 18 10



DEPTH BASED DATA - MAXIMUM SAMPLING INCREMENT 10CM. RECORDED ON 31-MAR-1992 AT 17 46  
 FILENAME MRCE002R.C1B RUN ID REPEAT SECTION PLOTTED ON 31-MAR-1992 AT 18 10

**REPEAT SECTION**

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

		<b>CAMMA RAY CALIPER</b> <b>LONG SPACED DENSITY</b> <b>SLIMLINE UNIT</b>	
LOCATION CAMPBELL RIVER PRVNC/CO. BRITISH COLUMBIA FIELD QUINSAM WELL 92-003 COMPANY BRINCO COAL MINING CORP.		LOCATION CAMPBELL RIVER BRINCO COAL MINING CORP. PROVINCE/COUNTY BRITISH COLUMBIA COUNTRY/STATE CANADA	
PERMANENT DATUM CL. ELEVATION 315.00 M LOC MEASURED FROM CL. ABOVE PERMANENT DATUM DRILLING MEASURED FROM CL.		OTHER SERVICES DIMETER F.F.	
RUN NUMBER 1-APR-92 DEPTH-DRILLER 03.2 M DEPTH-LOGGER 03.2 M FIRST READING 0 LAST READING 0 CASING-DRILLER 4.4 M CASING-LOGGER 4.4 M BIT SIZE 5.5"	DATE 1-APR-92 RATE ONE DEPTH-DRILLER 03.2 M DEPTH-LOGGER 03.2 M FIRST READING 0 LAST READING 0 CASING-DRILLER 4.4 M CASING-LOGGER 4.4 M BIT SIZE 5.5"	BOREHOLE RECORD RUN 1 110 RUN 2 RUN 3 RUN 4	
EQUIPMENT DD1			
REMARKS CAMMA RAY CALIPER LONG SPACED DENSITY SLIMLINE UNIT N 103.452.167 E 100.052.441			
SYSTEM CONFIGURATION DATES LOGGED PROCESSED PLOTTED			
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RUN NUMBER	BIT	FROM	TO	SIZE	WEIGHT	FROM	TO
ONE	5.5"	36.4 M	83.5 M	7"		0	6 M

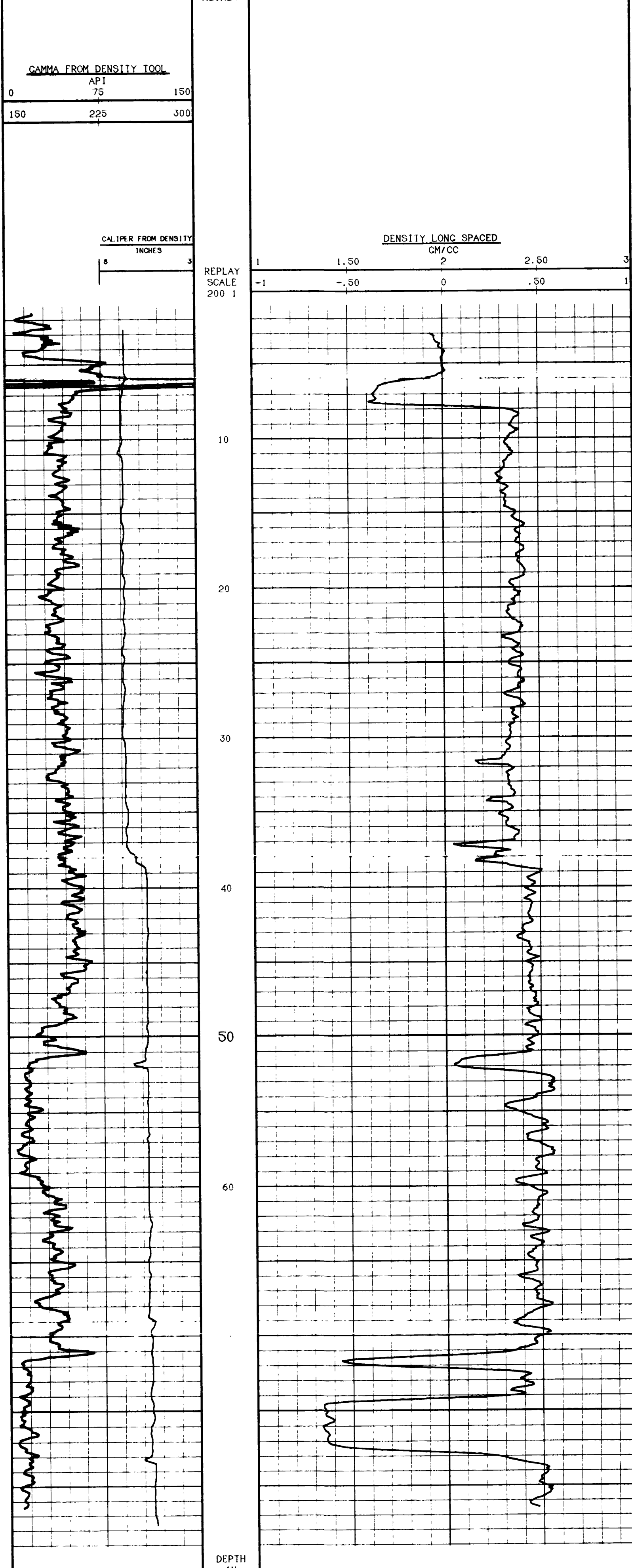
REMARKS  
CAMMA RAY CALIPER LONG SPACED DENSITY SLIMLINE UNIT  
N 103.452.167 E 100.052.441

SYSTEM CONFIGURATION DATES LOGGED PROCESSED PLOTTED

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**MAIN LOG**

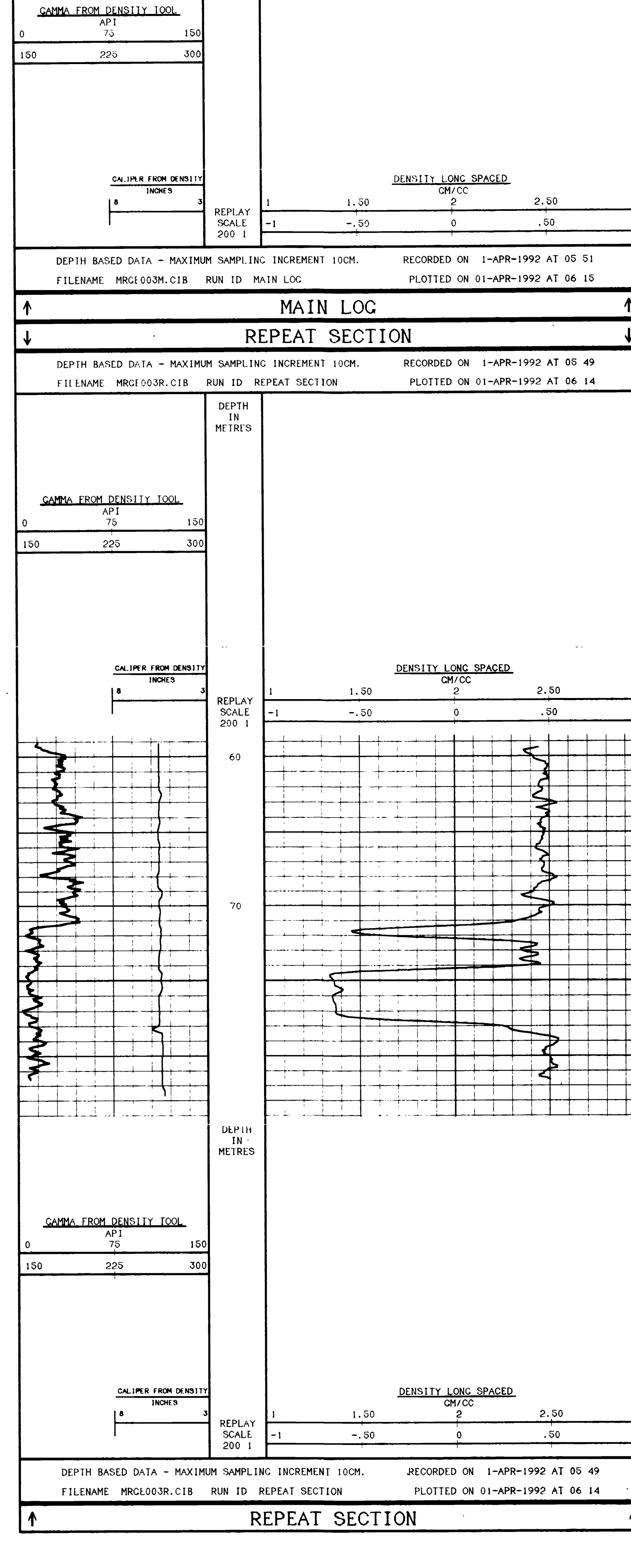
DEPTH BASED DATA - MAXIMUM SAMPLING INCREMENT 10CM. RECORDED ON 1-APR-1992 AT 05 51  
 FILENAME MRCE003M.CIB RUN ID MAIN LOG PLOTTED ON 01-APR-1992 AT 06 15



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 15

**REPEAT SECTION**

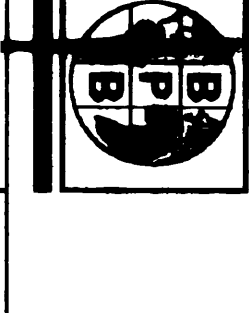
DEPTH BASED DATA - MAXIMUM SAMPLING INCREMENT 10CM. RECORDED ON 1-APR-1992 AT 05 49  
 FILENAME MRCE003R.CIB RUN ID REPEAT SECTION PLOTTED ON 01-APR-1992 AT 06 14



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 14

**REPEAT SECTION**

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



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

LOCATION	CAMPBELL RIVER	PROVINCE/COUNTY	BRITISH COLUMBIA
PRVNG/CO.	BRITISH COLUMBIA	COUNTRY/STATE	CANADA
FIELD	QUINSAM	WELL	92-004
COMPANY	BRINCO COAL MINING CORP.	DATE	1-APR-92
LOCATION	CAMPBELL RIVER	DEPTH-DRILLER	ONE
SEC		DEPTH-LOGGER	64.0 M
TWP		LAST READING	81.6 M
RCH		CASING-DRILLER	3.8 M
OTHER SERVICES	DIPMETER	CASING-LOGGER	4.8 M
	FT.	BIT SIZE	3.0
		HOLE FLUID TYPE	WATER
		DIMS./VISC.	1.1
		PH/FLUID LOSS	N/A
		SAMPLE SOURCE	N/A
		RM @ MASS TEMP	
		RM @ MASS TEMP	
		SOURCE, RHT/RMC	
		RM @ BIT	
		LINE SINCE CIRC	
		TIME SINCE CIRC	
		FROM REC. TIME	
		RECORDED BY	VZS3
		PLANNED BY	OCJ
		TESTED BY	

BOREHOLE RECORD				CASING RECORD			
RUN NUMBER	BIT	FROM	TO	SIZE	WEIGHT	FROM	TO
ONE	5.5"	35.5 M	84.0 M	7"		0	3.8 M

EQUIPMENT	RUN 1	RUN 2	RUN 3	RUN 4
DD1	119			

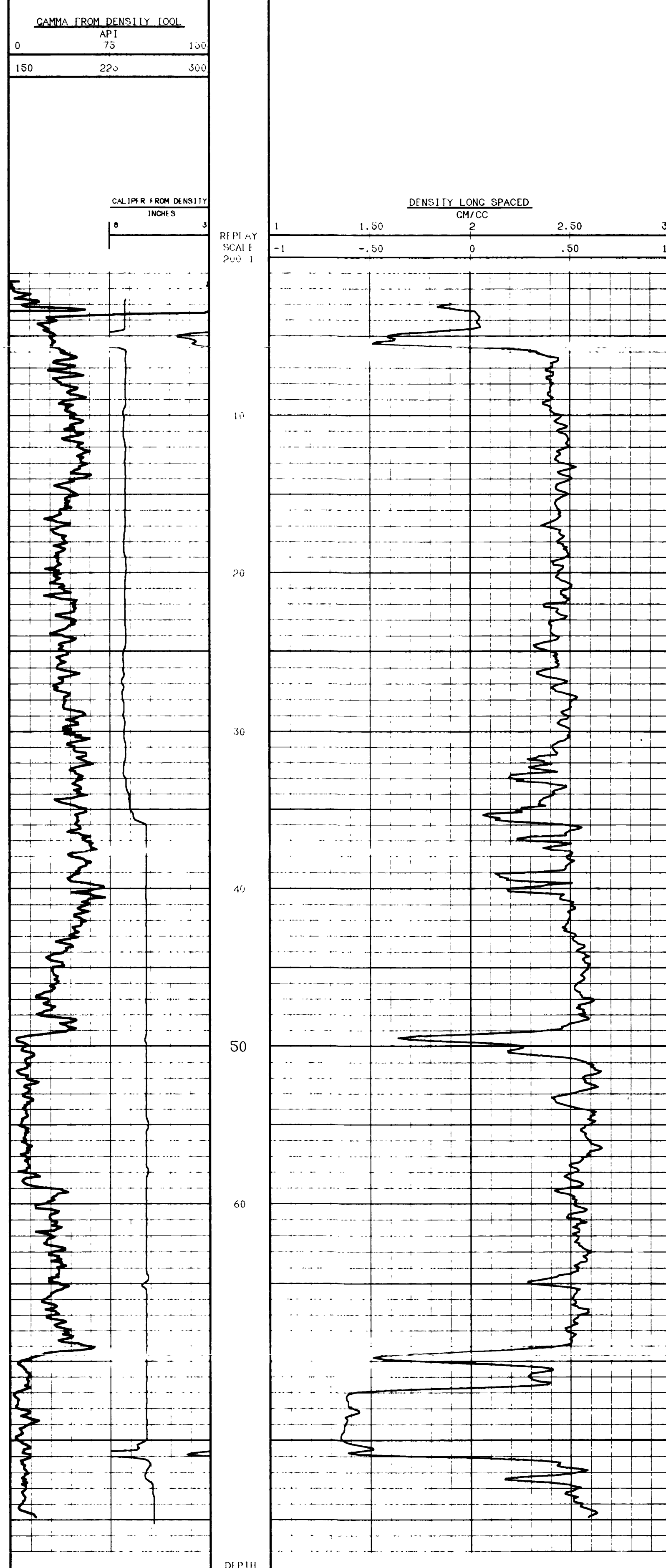
**REMARKS**  
GAMMA RAY CALIPER LONG SPACED DENSITY SLIMLINE UNIT  
N 103 355.991 F 100.002.72

SYSTEM CONFIGURATION DATES LOGGED PROCESSED PLOTTED

ALL INTERPRETATIONS ARE OPINIONS BASED ON INFERENCE'S FROM ELECTRICAL OR OTHER MEASUREMENTS AND WE CANNOT AND DO NOT GUARANTEE THE ACCURACY OR CORRECTNESS OF ANY INTERPRETATIONS. 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**

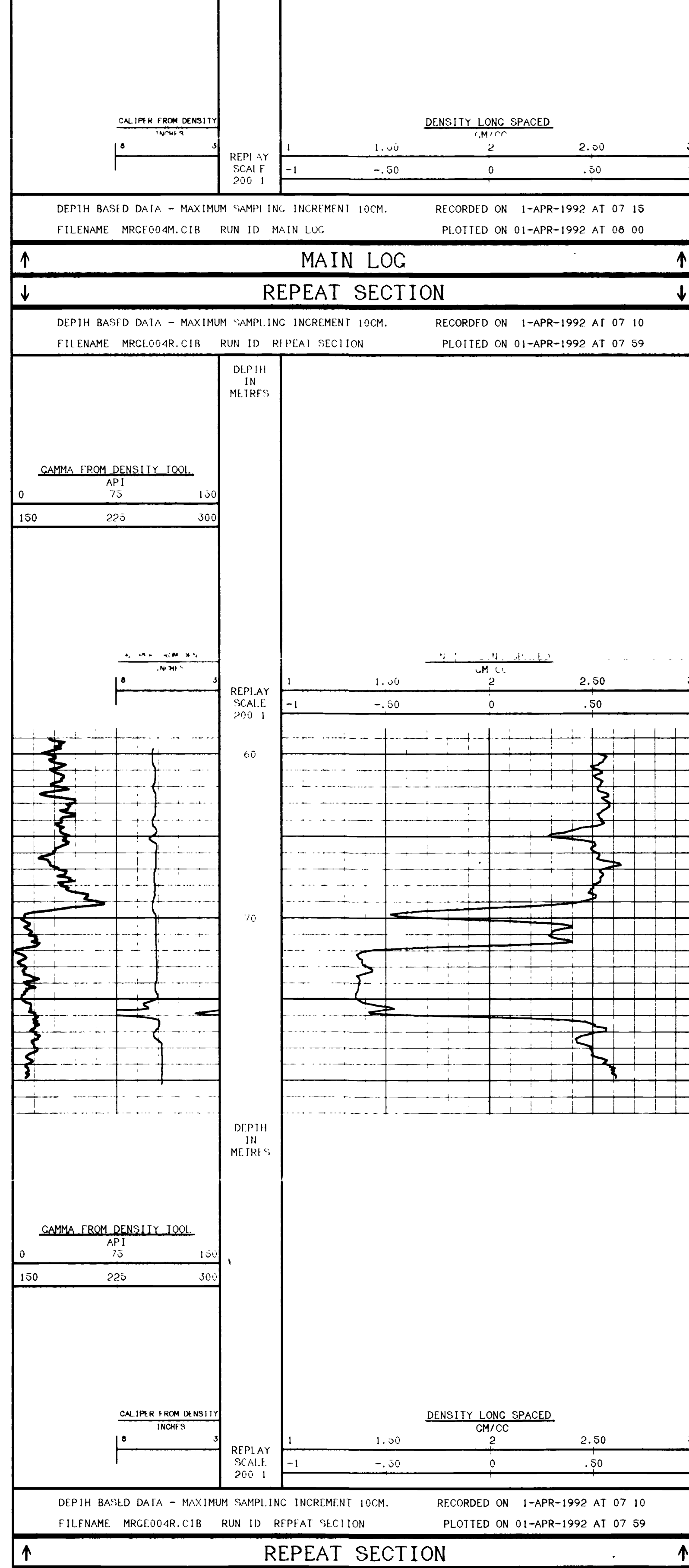
DEPTH BASED DATA - MAXIMUM SAMPLING INCREMENT 10CM. RECORDED ON 1-APR-1992 AT 07 15  
FILENAME MRCF004M.CIB RUN ID MAIN LOG PLOTTED ON 01-APR-1992 AT 08 00



DEPTH BASED DATA - MAXIMUM SAMPLING INCREMENT 10CM. RECORDED ON 1-APR-1992 AT 07 15  
FILENAME MRCF004M.CIB RUN ID MAIN LOG PLOTTED ON 01-APR-1992 AT 08 00

**REPEAT SECTION**

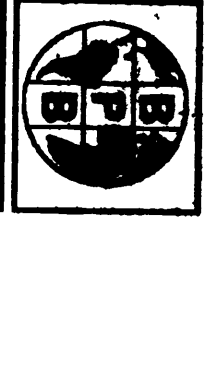
DEPTH BASED DATA - MAXIMUM SAMPLING INCREMENT 10CM. RECORDED ON 1-APR-1992 AT 07 10  
FILENAME MRCF004R.CIB RUN ID REPEAT SECTION PLOTTED ON 01-APR-1992 AT 07 59



DEPTH BASED DATA - MAXIMUM SAMPLING INCREMENT 10CM. RECORDED ON 1-APR-1992 AT 07 10  
FILENAME MRCF004R.CIB RUN ID REPEAT SECTION PLOTTED ON 01-APR-1992 AT 07 59

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





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

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

LOCATION CAMPBELL RIVER  
PRVNG/CO. BRITISH COLUMBIA  
FIELD QUINSAM  
WELL 92-006  
COMPANY BRINCO COAL MINING CORP.

LOCATION CAMPBELL RIVER  
LSD SEC TWP RGE  
OTHER SERVICES  
DIPME:1HR  
F.F.

FORMATION DATUM CL. ELEVATION 375.22 M  
LOG. MEASURED FROM CL. ABOVE PERMANENT DATUM  
DRILLING MEASURED FROM CL. ELEVATIONS  
DATE 1-APR-92  
RUN NUMBER 110  
DEPTH-DRILLER 94.0 M  
DEPTH-COCKER 94.0 M  
FIRST READING 0  
LAST READING 10.0 M  
CASING-DRILLER 10.0 M  
CASING-COCKER 10.0 M  
BIT SIZE 5.5"

HOE FLUID TYPE WATER  
DENS. VISC. 1.1  
PH/FLUID LOSS N/A  
SAMPLE SOURCE N/A  
RHT @ MEAS TEMP  
RMC @ MEAS TEMP  
SOURCE RHT/RMC  
RHT @ BIT  
RMC @ BIT  
TIME SINCE CIRC  
RECORDING BASE  
RESPONSE BY  
WITNESSED BY

RUN NUMBER	BIT	FROM	TO	SIZE	WEIGHT	FROM	TO
ONE	5.5"	60.2 M	94.0 M	7"		0	10.0 M

EQUIPMENT	RUN 1	RUN 2	RUN 3	RUN 4
DD1	110			

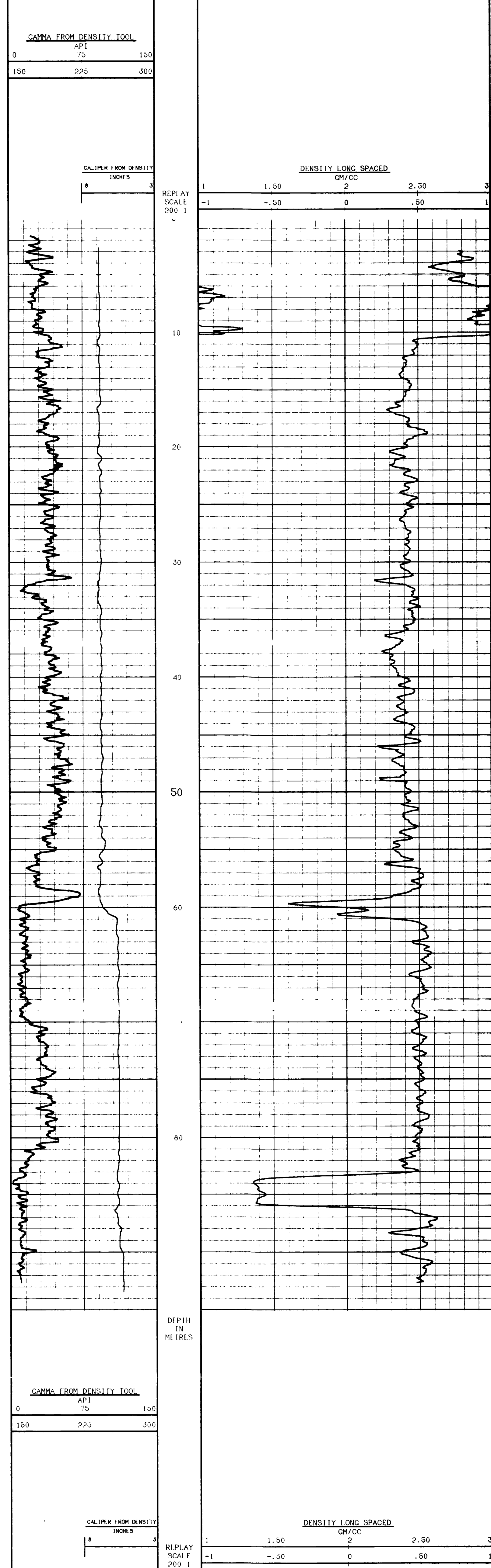
**REMARKS**  
GAMMA RAY CALIPER LONG SPACED DENSITY SLIMLINE UNIT  
N 103 222.07 E 100 107.06

SYSTEM CONFIGURATION DATES LOGGED PROCESSED PLOTTED

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**MAIN LOG**

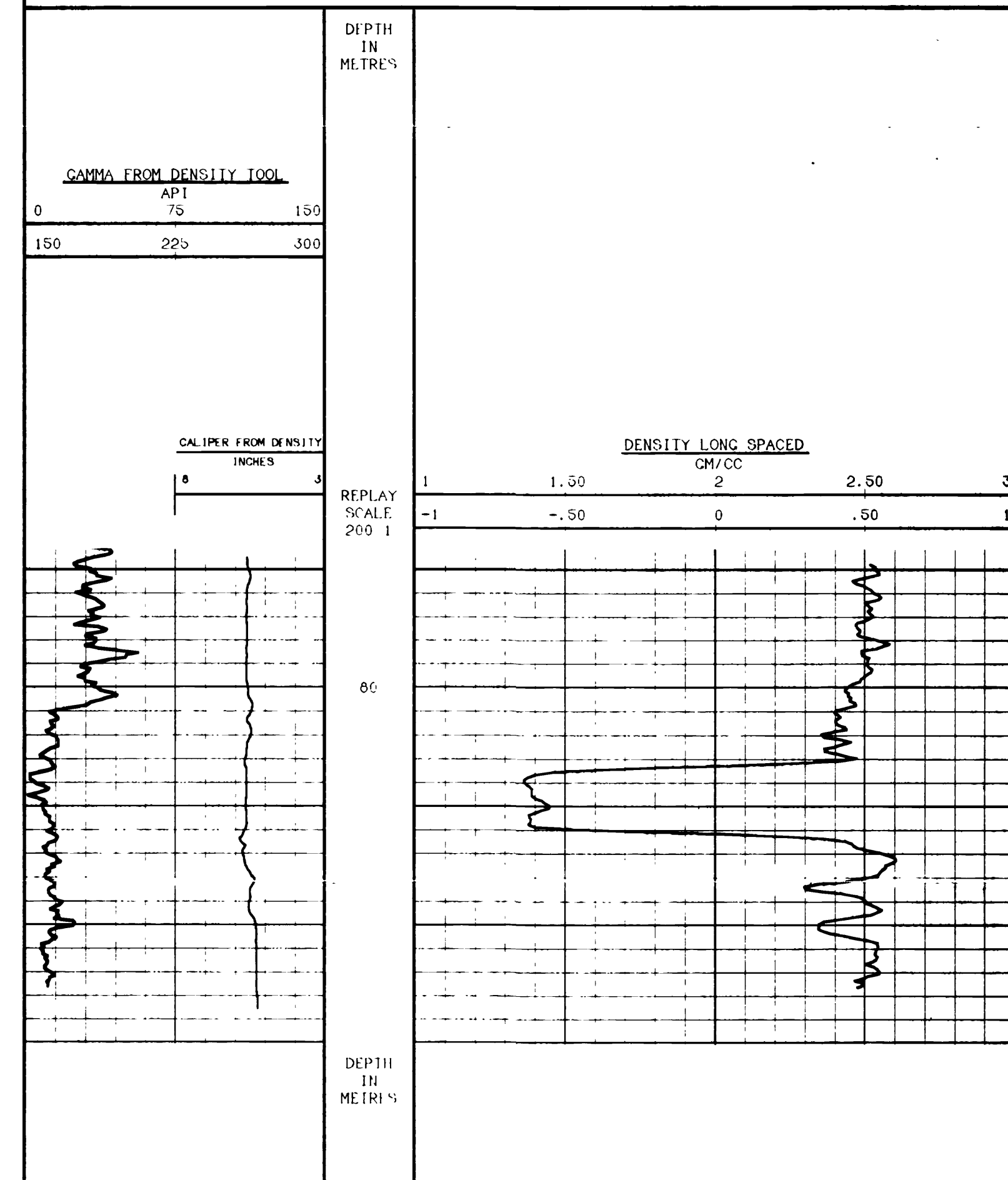
DEPTH BASED DATA - MAXIMUM SAMPLING INCREMENT 10CM. RECORDED ON 1-APR-1992 AT 10:37  
FILENAME MRCE006M.CIB RUN ID MAIN LOG PLOTTED ON 01-APR-1992 AT 11:06



DEPTH BASED DATA - MAXIMUM SAMPLING INCREMENT 10CM. RECORDED ON 1-APR-1992 AT 10:37  
FILENAME MRCE006M.CIB RUN ID MAIN LOG PLOTTED ON 01-APR-1992 AT 11:06

**REPEAT SECTION**

DEPTH BASED DATA - MAXIMUM SAMPLING INCREMENT 10CM. RECORDED ON 1-APR-1992 AT 10:29  
FILENAME MRCE006R.CIB RUN ID REPEAT SECTION PLOTTED ON 01-APR-1992 AT 11:05



DEPTH BASED DATA - MAXIMUM SAMPLING INCREMENT 10CM. RECORDED ON 1-APR-1992 AT 10:29  
FILENAME MRCE006R.CIB RUN ID REPEAT SECTION PLOTTED ON 01-APR-1992 AT 11:05

**REPEAT SECTION**

DEPTH BASED DATA - MAXIMUM SAMPLING INCREMENT 10CM. RECORDED ON 1-APR-1992 AT 10:29  
FILENAME MRCE006R.CIB RUN ID REPEAT SECTION PLOTTED ON 01-APR-1992 AT 11:05

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



**CAMMA 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
PRVNC/CO.	BRITISH COLUMBIA	OTHER SERVICES	DIPMETER
FIELD	92-007	PERMANENT DATUM	CL
COMPANY	BRINCO COAL MINING CORP.	LOC MEASURED FROM	CL
LOCATION	CAMPBELL RIVER	DRILLING MEASURED FROM	CL
PRVNC/CO.	BRITISH COLUMBIA	ELEVATION	21.65 M
FIELD	92-007	ABOVE PERMANENT DATUM	CL
PROVINCE/COUNTY	BRITISH COLUMBIA	ELEVATIONS	KB CL 21.65 M
COUNTRY/STATE	CANADA	DATE	1-APR-92
PERMANENT DATUM	CL	RUN NUMBER	ONE
LOC MEASURED FROM	CL	DEPTH-DRILLER	79.9 M
DRILLING MEASURED FROM	CL	DEPTH-COCKER	76.6 M
ELEVATION	21.65 M	FIRST READING	0
ABOVE PERMANENT DATUM	CL	LAST READING	0
ELEVATIONS	KB CL 21.65 M	CASING-DRILLER	6.0 M
DATE	1-APR-92	CASING-COCKER	2.3 M
RUN NUMBER	ONE	HOLE FLUID TYPE	WATER
DEPTH-DRILLER	79.9 M	DENS./VISC.	1.1
DEPTH-COCKER	76.6 M	PIV/FLUID LOSS	N/A
FIRST READING	0	SAMPLE SOURCE	N/A
LAST READING	0	RHT @ MEAS TEMP	
CASING-DRILLER	6.0 M	RHC @ MEAS TEMP	
CASING-COCKER	2.3 M	SOURCE RHT/RHC	
HOLE FLUID TYPE	WATER	RHT @ RHT	
DENS./VISC.	1.1	TIME SINCE CIRC	
PIV/FLUID LOSS	N/A	MAX REG TEMP	
SAMPLE SOURCE	N/A	EQUIPMENT/BASE	V283 REIDER
RHT @ MEAS TEMP		RECORDED BY	JCV
RHC @ MEAS TEMP		WITNESSED BY	
SOURCE RHT/RHC			
RHT @ RHT			
TIME SINCE CIRC			
MAX REG TEMP			
EQUIPMENT/BASE	V283 REIDER		
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
DD1	110			

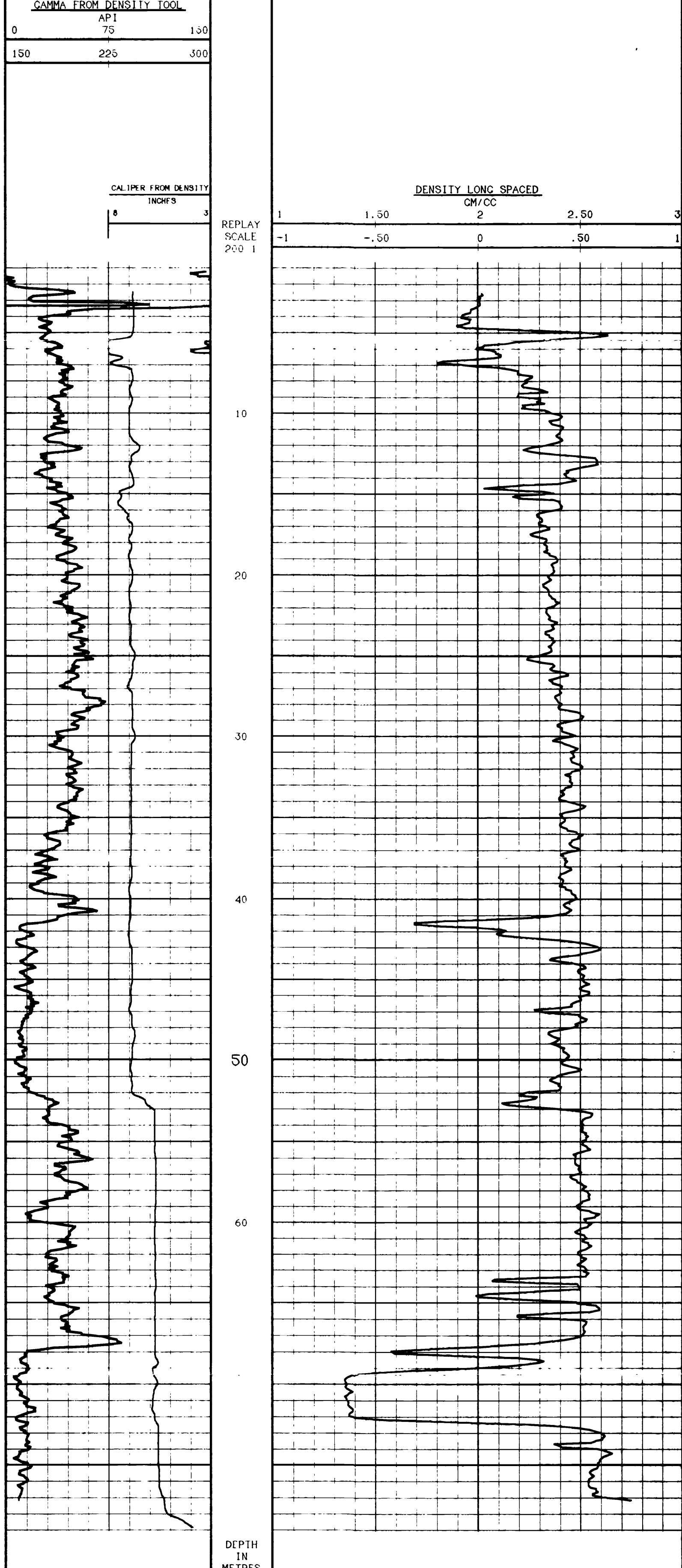
**REMARKS**  
 CAMMA RAY, CALIPER LONG SPACED DENSITY SLIMLINE UNIT  
 N 102.999.499 E 99.868.12

SYSTEM CONFIGURATION DATES LOGGED PROCESSED PLOTTED

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**MAIN LOG**

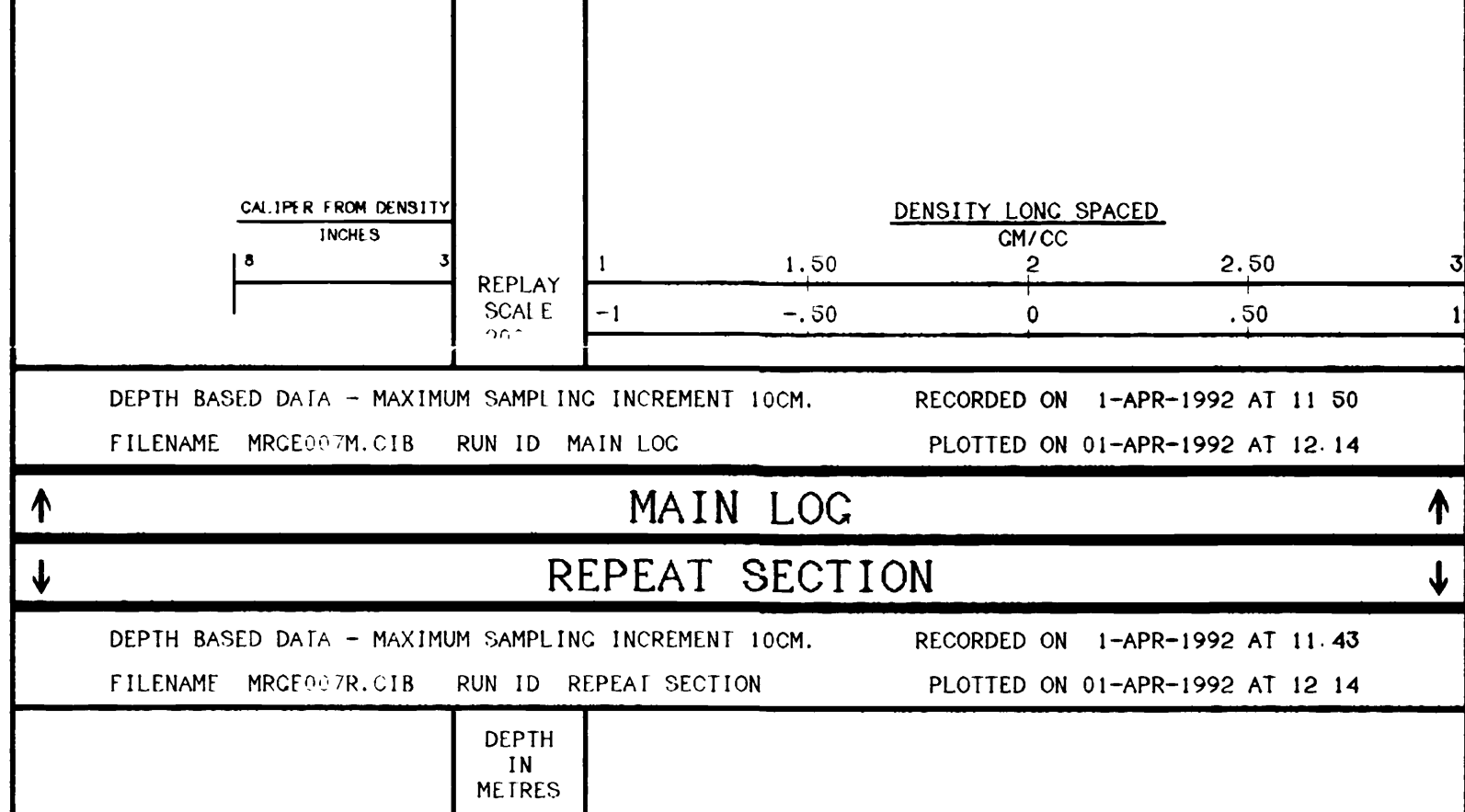
DEPTH BASED DATA - MAXIMUM SAMPLING INCREMENT 10CM. RECORDED ON 1-APR-1992 AT 11:50  
 FILENAME MRCE007M.CIB RUN ID MAIN LOG PLOTTED ON 01-APR-1992 AT 12:14



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

**REPEAT SECTION**

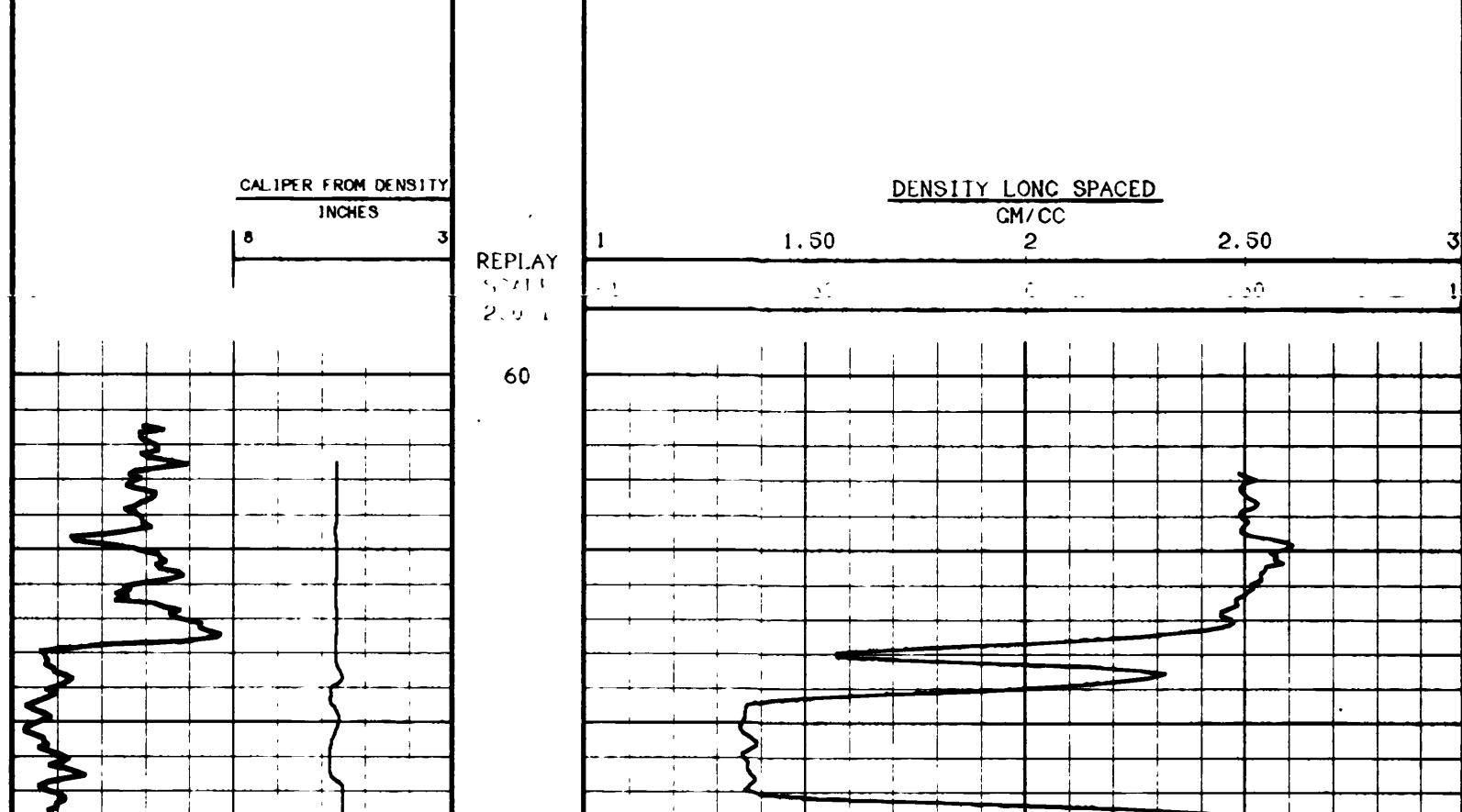
DEPTH BASED DATA - MAXIMUM SAMPLING INCREMENT 10CM. RECORDED ON 1-APR-1992 AT 11:43  
 FILENAME MRCE007R.CIB RUN ID REPEAT SECTION PLOTTED ON 01-APR-1992 AT 12:14



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



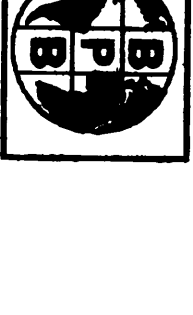
DEPTH BASED DATA - MAXIMUM SAMPLING INCREMENT 10CM. RECORDED ON 1-APR-1992 AT 11:43  
 FILENAME MRCE007R.CIB RUN ID REPEAT SECTION PLOTTED ON 01-APR-1992 AT 12:14

**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





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

LOCATION	CAMPBELL RIVER	OTHER SERVICES	
PRVNC/CO.	BRITISH COLUMBIA		
FIELD	QUINSAM		
WELL	92-009		
COMPANY	BRINCO COAL MINING CORP.		
PROVINC/COUNTY	BRITISH COLUMBIA		
COUNTRY/STATE	CANADA		
LOCATION	CAMPBELL RIVER	DIPMETER	FE
LSB			
SEC			
TYP			
RCE			
PERMANENT DATUM CL		ELEVATION	571.30 M
LOC MEASURED FROM CL		ABOVE PERMANENT DATUM	
DRILLING MEASURED FROM CL			
DATE	1-APR-92		
RUN NUMBER	ONE		
DEPTH-LOGGERS	64.9 M		
DEPTH-LOGGERS	63.3 M		
FIRST READING	0		
LAST READING	2.5 M		
COSTING-DRILLER	2.5 M		
COSTING-LOGGERS	2.5 M		
BIT SIZE	5.5"		
HOE FLUID TYPE	VAIR		
DENS./VISC.	1.1		
PH/FLUID LOSS	N/A		
SAMPLE SOURCE			
RH @ MEAS TEMP			
RHC @ MEAS TEMP			
SR @ MEAS TEMP			
SOURCE RH/TH/IRAC			
RH @ BHT			
TIME SINCE CIRC			
MAX REC TEMP			
EQUIPMENT/BASE	V223 REDBEER		
RECORDED BY	JCV		
WITNESSED BY			

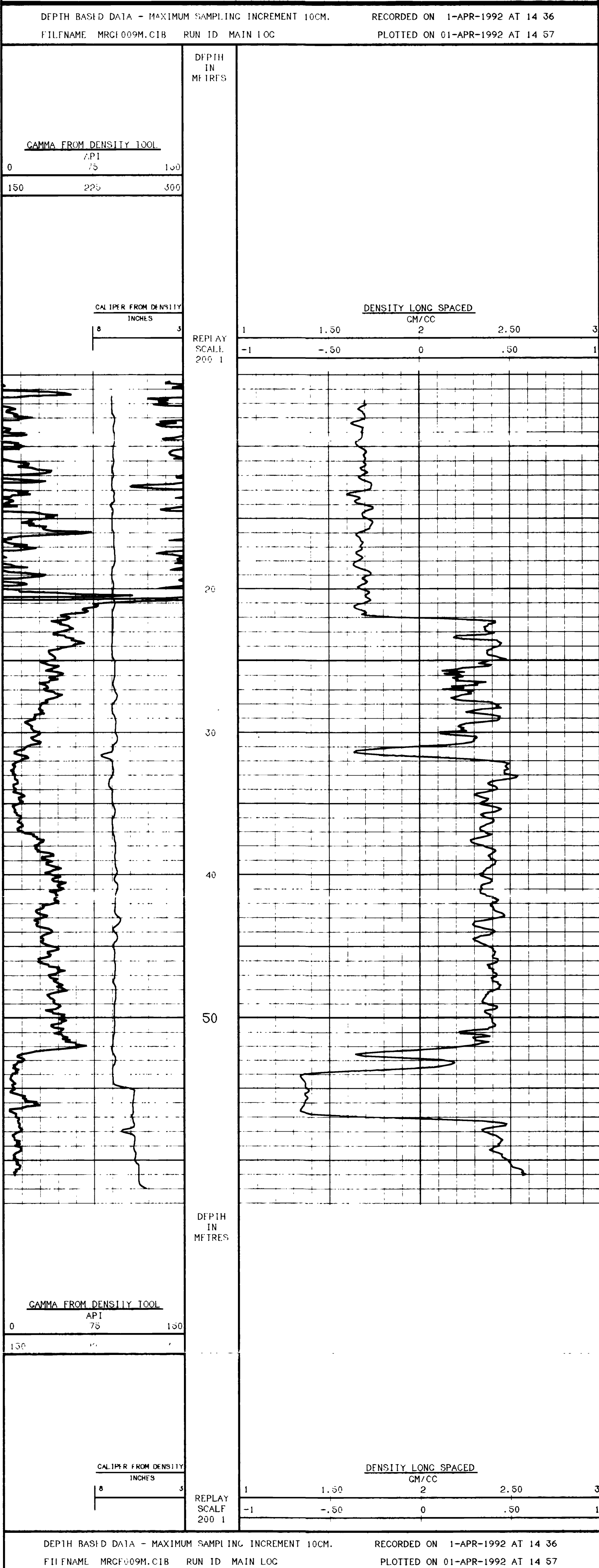
RUN NUMBER	BOREHOLE RECORD		CASING RECORD				
	B11	FROM	TO	SIZE	WEIGHT	FROM	TO
ONE	3.0"	34.0 M	64.9 M	7"		0	2.5 M
EQUIPMENT		RUN 1	RUN 2	RUN 3	RUN 4		
DD1		110					

**REMARKS**  
 GAMMA RAY CALIPER LONG SPACED DENSITY SLIMLINE UNIT  
 N.103.19-29 1 99 96.674

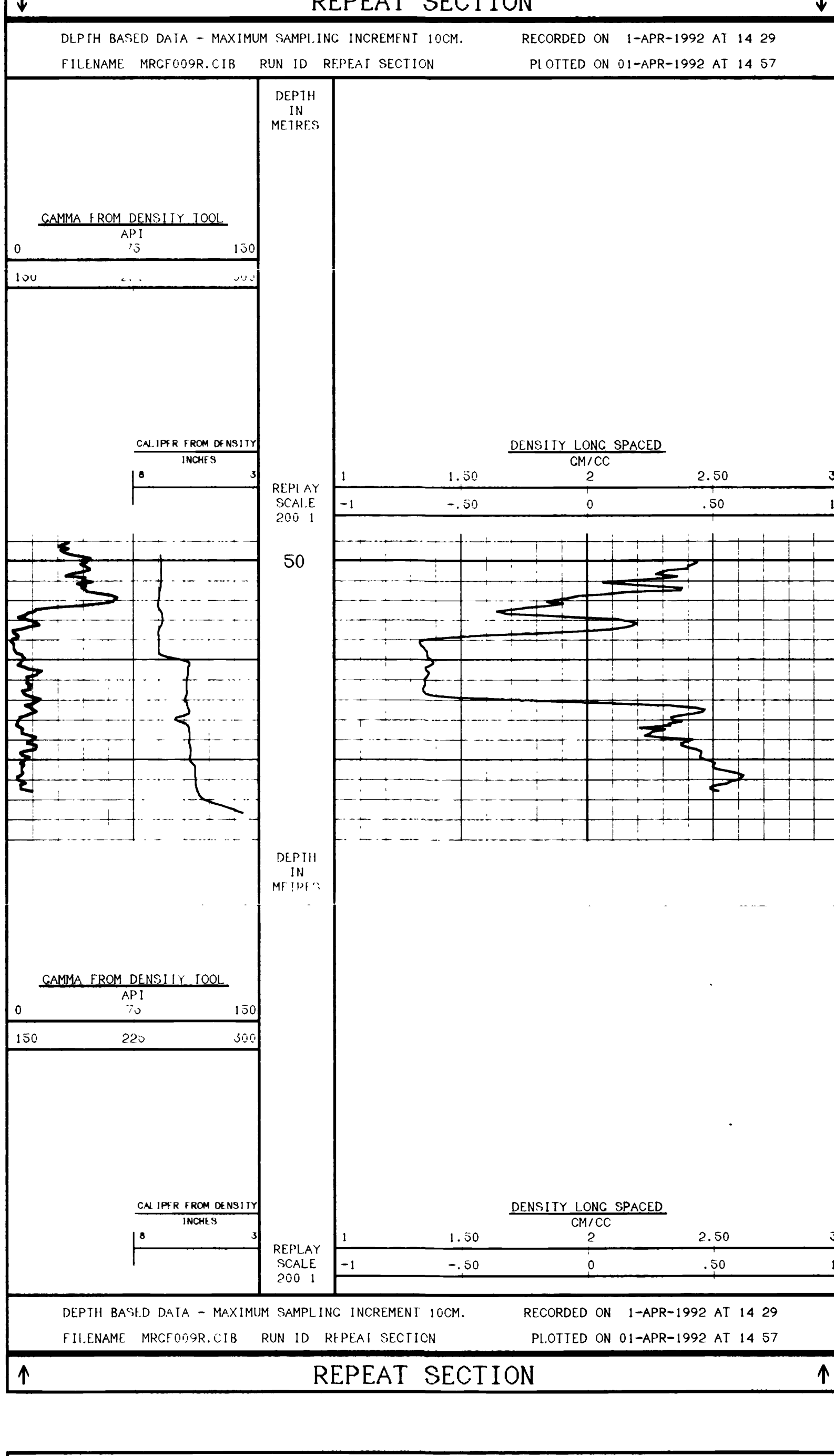
SYSTEM CONFIGURATION DATES: LOCLED PROCESSED PLOTTED

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**MAIN LOG**




**REPEAT SECTION**



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



		<b>GAMMA RAY CALIPER LONG SPACED DENSITY SLIMLINE UNIT</b>	
LOCATION CAMPBELL RIVER PRVNC/CO. BRITISH COLUMBIA FIELD QUINSAM WELL 92-010 COMPANY BRINCO COAL MINING CORP.		LOCATION CAMPBELL RIVER 150 SEC 76.7 M ELEVATION TO 05. M OTHER SERVICES DIMETER F.F.	
PREPARMENT DATA LOC MEASURED FROM CI DRILLING MEASURED FROM CI		ELEVATIONS KB CI 310.85 M DL CI 310.85 M	
RUN NUMBER 110 DEPTH-DRILLER 76.7 M DEPTH-LOGGER 76.3 M LAST READING 0 CASING-DRILLER 3.5 M CASING-LOGGER 3.5 M BIT SIZE 5.5" HOLE FLUID TYPE WATER DENS. /VISC. 1.1 PH/FLUID LOSS N/A SAMPLE SOURCE N/A BHN @ MEAS TEMP BHN @ 100 F SENS. TRANS TEMP BHN @ BIT RUN /BNC TIME SINCE CIRC MAX REC TEMP EQUIPMENT/CASE RECORDED BY VZ33 RUDIER WITNESSED BY JCV		DATE 1992-04-01 TIME 15:29	

BORHOLE RECORD				CASING RECORD			
RUN NUMBER	BIT	FROM	TO	SIZE	VEICHT	FROM	TO
ONE	5.5"	67.1 M	76.7 M	7"		0	3.5 M

EQUIPMENT	RUN 1	RUN 2	RUN 3	RUN 4
DDI	110			

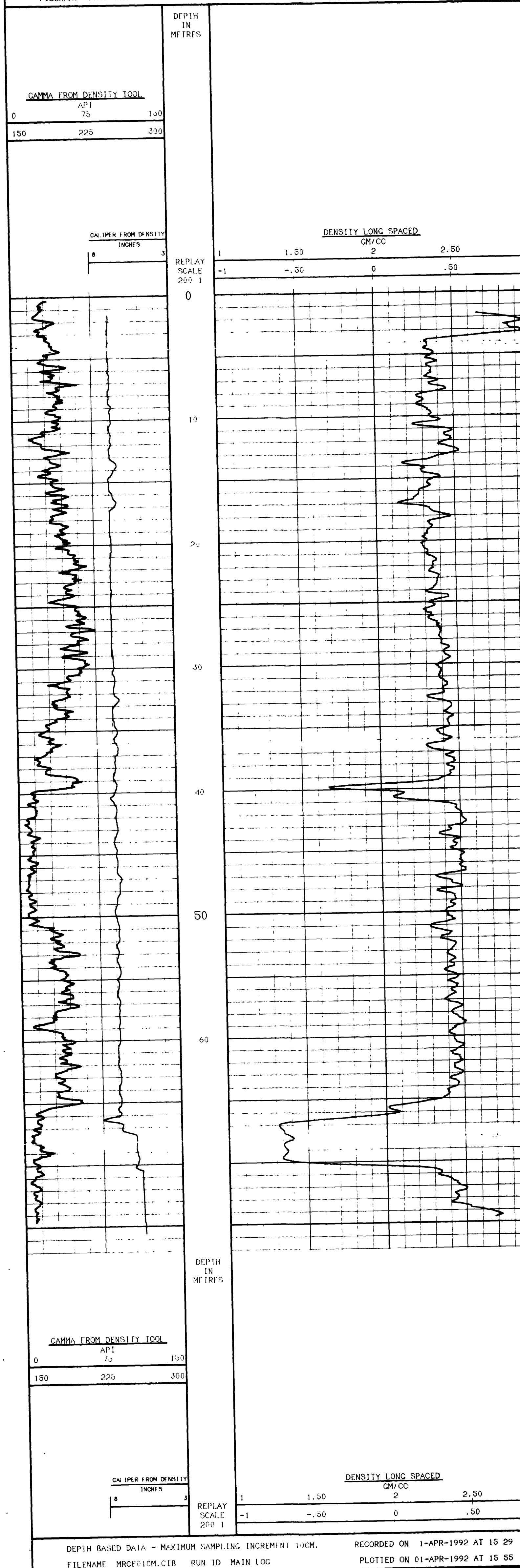
REMARKS		
GAMMA RAY CALIPER	LONG SPACED DENSITY	SLIMLINE UNIT
N 103 067.255 E 99 903.55		

SYSTEM CONFIGURATION DATES	LOGGED	PROCESSED	PLOTTED

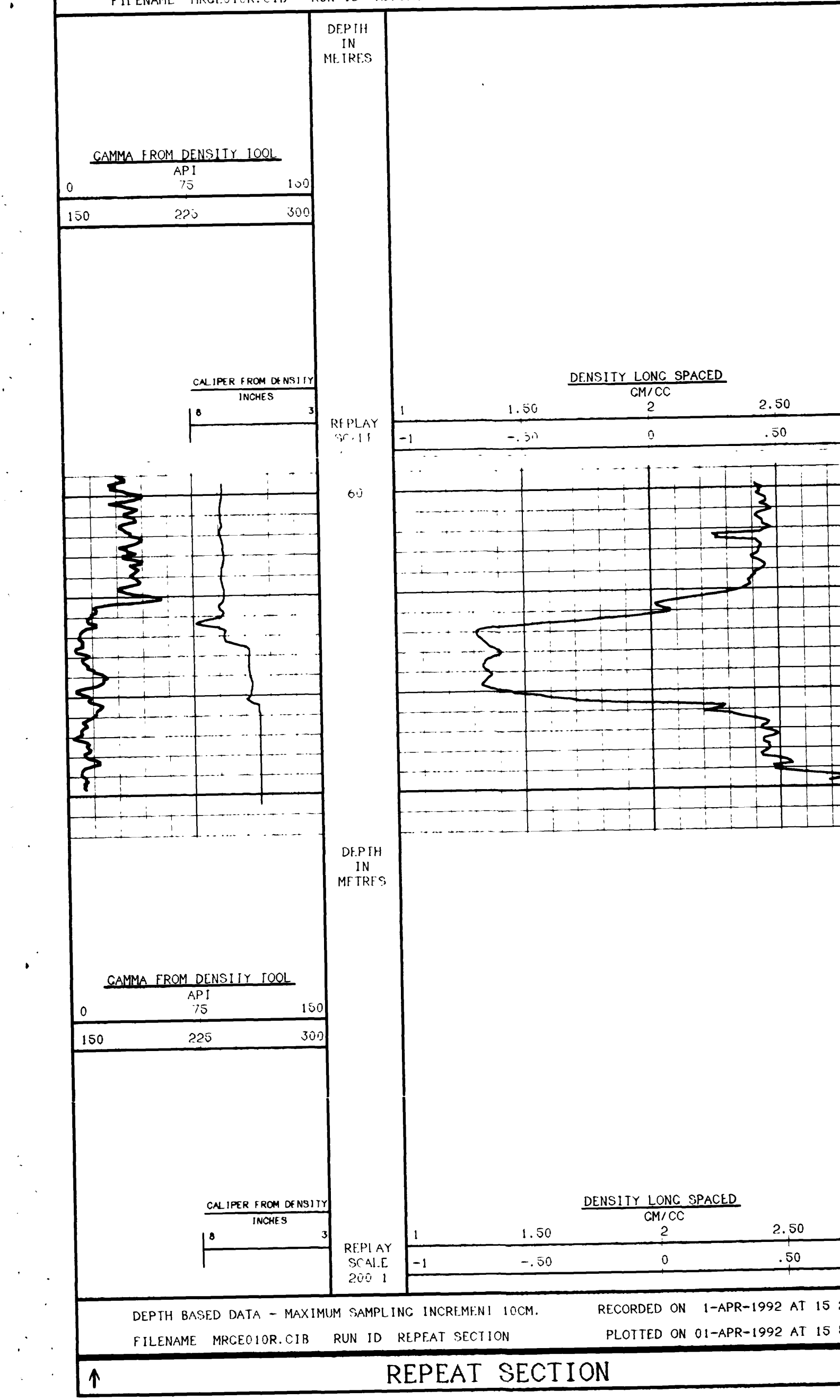
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**MAIN LOG**



DEPTH BASED DATA - MAXIMUM SAMPLING INCREMENT 10CM. RECORDED ON 1-APR-1992 AT 15 29  
 FILENAME MRCE310M.CIB RUN ID MAIN LOG PLOTTED ON 01-APR-1992 AT 15 56

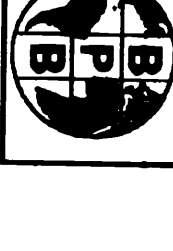
**REPEAT SECTION**



DEPTH BASED DATA - MAXIMUM SAMPLING INCREMENT 10CM. RECORDED ON 1-APR-1992 AT 15 27  
 FILENAME MRCE310R.CIB RUN ID REPEAT SECTION PLOTTED ON 01-APR-1992 AT 15 54

**REPEAT SECTION**

COMPANY	BRINCO COAL MINING CORP.
WELL	92-010
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	92-011
FIELD	QUINSAM	PROVINCE/COUNTY	BRITISH COLUMBIA
		COUNTRY/STATE	CANADA
PERMANENT DATUM	CL	OTHER SERVICES	
100 MEASURED FROM	CL	LOCATION	CAMPBELL RIVER
DRILLING MEASURED FROM	CL	LSB	
DATE	1-APR-92	SFC	
RUN NUMBER	ONE	TVR	
DEPTH-DRILLER	101.2 M	RCF	
DEPTH-COCKER	96.1 M		
FRESH READING	96.1 M		
LAST READING	0		
CASING-DRILLER	13.7 M		
CASING-COCKER	13.6 M		
BIT TYPE	S-S*		
HOME FLUID TYPE	WATER		
SENS. VISC.	1.1		
HEAT/FLUID LOSS	N/A		
SAMPLE SOURCE	N/A		
REF @ MEAS TEMP			
REC @ MEAS TEMP			
SOURCE	BHT/IRAC		
AM @ BHT			
TIME SINCE CIRC			
MAX REC TEMP			
EQUIPMENT/MADE	V925 - RETRIEVE		
RECORDED BY	JCV		
WITNESSED BY			

BORHOF RECORD				CASING RECORD			
RUN NUMBER	BILL	FROM	TO	SIZE	WEIGHT	FROM	TO
ONE	5.5'	74. M	101.2 M	7"		0	13.5 M

EQUIPMENT	RUN 1	RUN 2	RUN 3	RUN 4
DD1	119			

**REMARKS**

GAMMA RAY CALIPER LONG SPACED DENSITY SLIMLINE UNIT

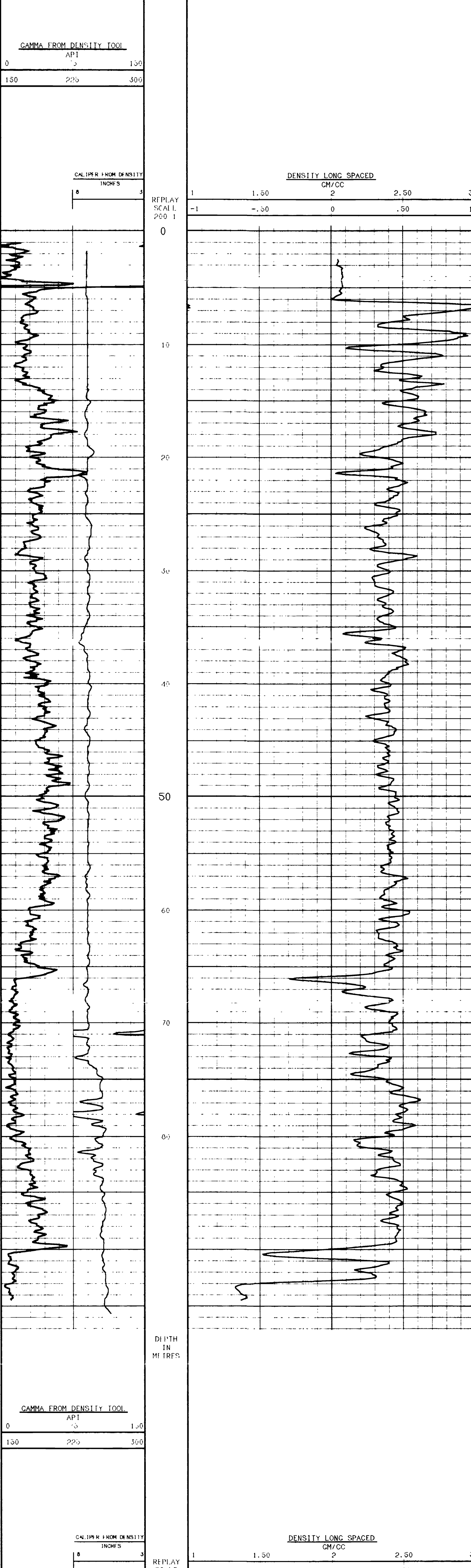
N 103 201.00 F 190 193.90

SYSTEM CONFIGURATION DATES LOGGED PROCESSED PLOTTED

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**MAIN LOG**

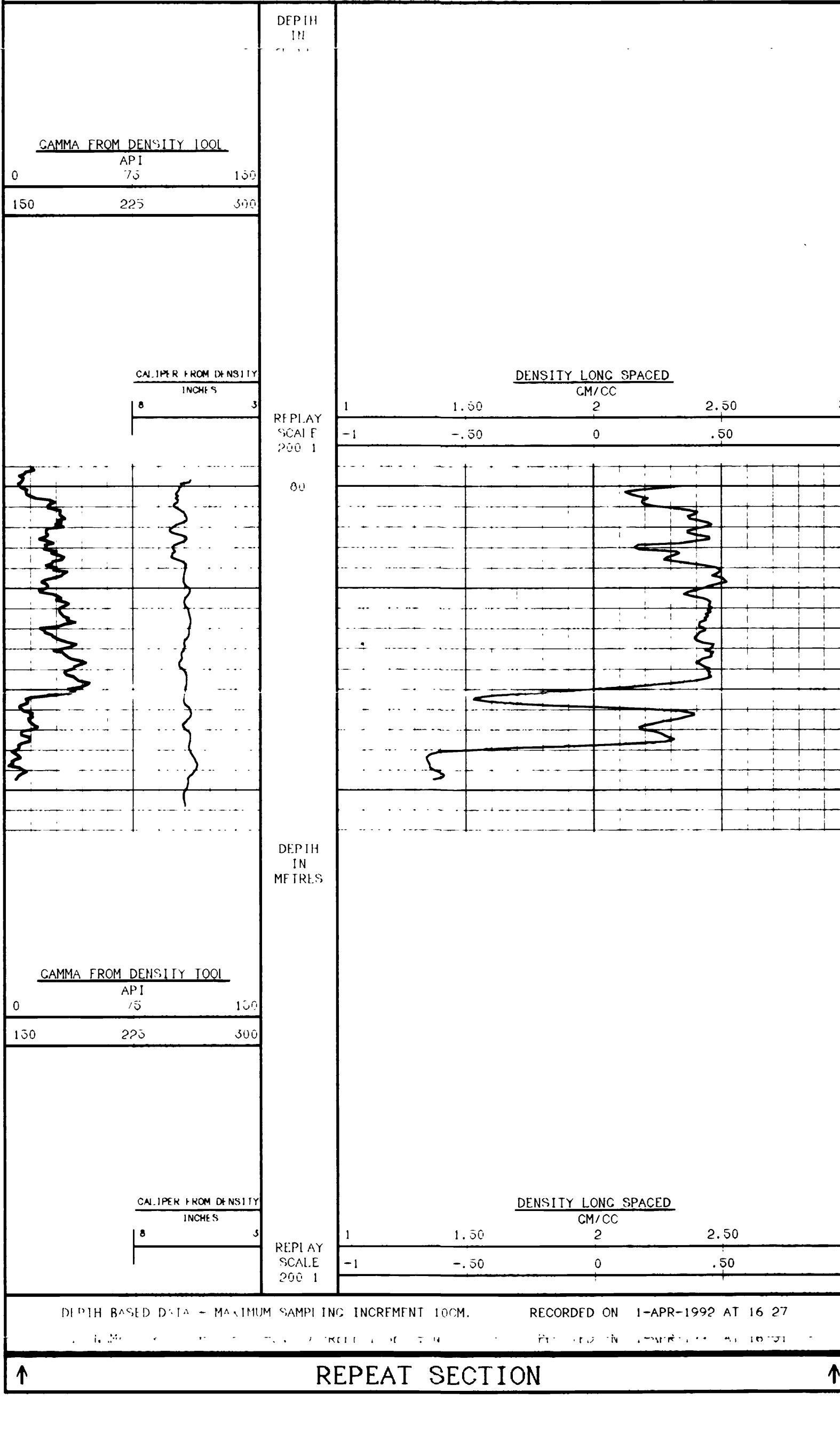
DEPTH BASED DATA - MAXIMUM SAMPLING INCREMENT 10CM. RECORDED ON 1-APR-1992 AT 16 29  
 FILENAME MRCE011M.CIB RUN ID MAIN LOG PLOTTED ON 01-APR-1992 AT 16 51



DEPTH BASED DATA - MAXIMUM SAMPLING INCREMENT 10CM. RECORDED ON 1-APR-1992 AT 16 29  
 FILENAME MRCE011M.CIB RUN ID MAIN LOG PLOTTED ON 01-APR-1992 AT 16 51

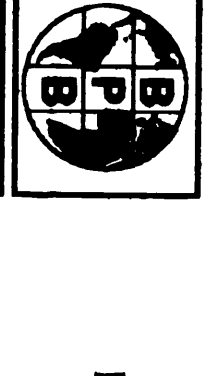
**REPEAT SECTION**

DEPTH BASED DATA - MAXIMUM SAMPLING INCREMENT 10CM. RECORDED ON 1-APR-1992 AT 16 27  
 FILENAME MRCE011R.CIB RUN ID REPEAT SECTION PLOTTED ON 01-APR-1992 AT 16 51



DEPTH BASED DATA - MAXIMUM SAMPLING INCREMENT 10CM. RECORDED ON 1-APR-1992 AT 16 27  
 FILENAME MRCE011R.CIB RUN ID REPEAT SECTION PLOTTED ON 01-APR-1992 AT 16 51

COMPANY	BRINCO COAL MINING CORP.
WELL	92-011
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 92-012  
 COMPANY BRINCO COAL MINING CORP.  
 PROVINCE/COUNTY BRITISH COLUMBIA  
 COUNTRY/STATE CANADA

**LOCATION CAMPBELL RIVER**  
 LSD SLIC TWP RCT  
 OTHER SERVICES  
 DIPME IER  
 F.F.

**DATE** 1-APR-92  
**PERMANENT DATUM** CI  
**LOC. MEASURED FROM** CI  
**DRILLING MEASURED FROM** CI  
**ELEVATION** 311.14 M  
**ABOVE PERMANENT DATUM**  
**CI** 311.14 M

**RUN NUMBER** ONE  
**DEPTH-DRILLER** 64.7 M  
**DEPTH-COOKER** 63.7 M  
**LAST READING** 0  
**CASING-DRILLER** S-S-M  
**CASING-COOKER** S-S-M  
**WELL TYPE** WATER

**WELL SOURCE** N/A  
**WELL TYPE** N/A  
**WELL DEPTH** N/A  
**WELL DATE** N/A  
**WELL BY** V223 TREBER  
**WELL CHECKED BY** JCV

RUN NUMBER	BOTH RECORD		CASING RECORD				
	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	110			

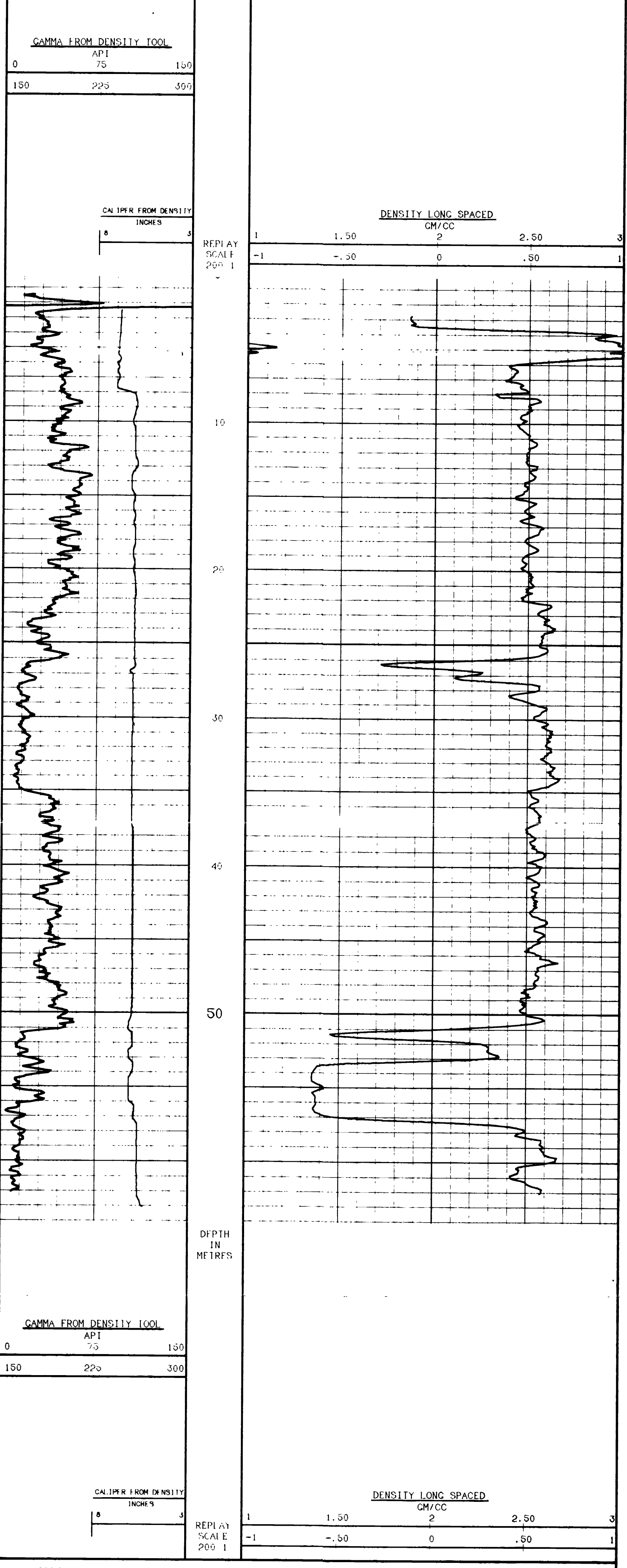
**REMARKS**  
 GAMMA RAY CALIPER LONG SPACED DENSITY SLIMLINE UNIT  
 N 103.431.04 E 59.808.6"

SYSTEM CONFIGURATION DATES: LOGGED PROCESSED PLOTTED

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**MAIN LOG**

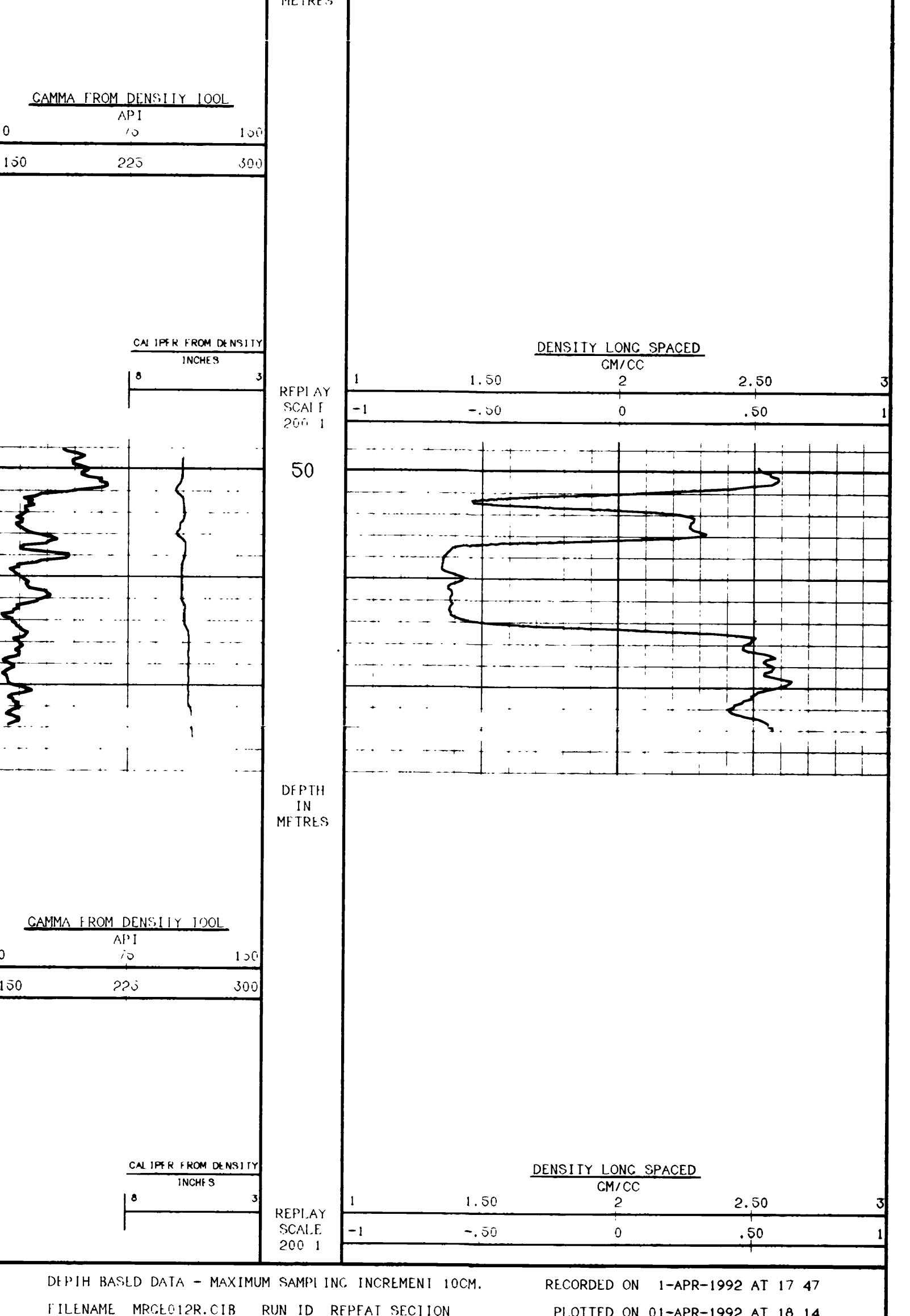
DEPTH BASED DATA - MAXIMUM SAMPLING INCREMENT 10CM. RECORDED ON 1-APR-1992 AT 17 49  
 FILENAME MRCE012M.C1B RUN ID MAIN LOG PLOTTED ON 01-APR-1992 AT 18 14



DEPTH BASED DATA - MAXIMUM SAMPLING INCREMENT 10CM. RECORDED ON 1-APR-1992 AT 17 49  
 FILENAME MRCE012M.C1B RUN ID MAIN LOG PLOTTED ON 01-APR-1992 AT 18 14

**REPEAT SECTION**

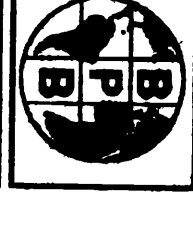
DEPTH BASED DATA - MAXIMUM SAMPLING INCREMENT 10CM. RECORDED ON 1-APR-1992 AT 17 47  
 FILENAME MRCE012R.C1B RUN ID REPEAT SECTION PLOTTED ON 01-APR-1992 AT 18 14



DEPTH BASED DATA - MAXIMUM SAMPLING INCREMENT 10CM. RECORDED ON 1-APR-1992 AT 17 47  
 FILENAME MRCE012R.C1B RUN ID REPEAT SECTION PLOTTED ON 01-APR-1992 AT 18 14

**REPEAT SECTION**

COMPANY	BRINCO COAL MINING CORP.
WELL	92-012
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 92-013  
COMPANY BRINCO COAL MINING CORP.  
PROVINCE/COUNTY BRITISH COLUMBIA  
COUNTRY/STATE CANADA

PERMANENT DATUM CL. ELEVATION 316.52 M  
LOC MEASURED FROM CL. ABOVE PERMANENT DATUM  
DRILLING MEASURED FROM CL. ELEVATIONS:  
K8 CL 310.52  
K9 CL 310.52

DATE 1-APR-92  
RUN NUMBER ONE  
DEPTH-DRILLER 106.0 M  
DEPTH-LOGGER 103.0 M  
FIRST READING 0  
LAST READING 11.4 M  
CASTING-BRITTLER 11.4 M  
CASTING-COOLER 5.5 M  
BIT SIZE WATER

HOLE FLUID TYPE WATER  
DENS. FLUID 1.1  
DR/FLUID LOSS N/A  
SAMPLE SOURCE N/A  
RM @ MEAS TEMP N/A  
SRF @ MEAS TEMP N/A  
SOURCE RM/RM/IRMG N/A  
RM @ BIT N/A  
TIME SINCE CIRC N/A  
LOG REG TEMP V223 READER  
EQUIPMENT/SCALE JCV  
ATTENDED BY

BOREHOLE RECORD				CASING RECORD			
RUN NUMBER	BIT	FROM	TO	SIZE	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
DD1	110			

**REMARKS**

GAMMA RAY CALIPER LONG SPACED DENSITY SLIMLINE UNIT

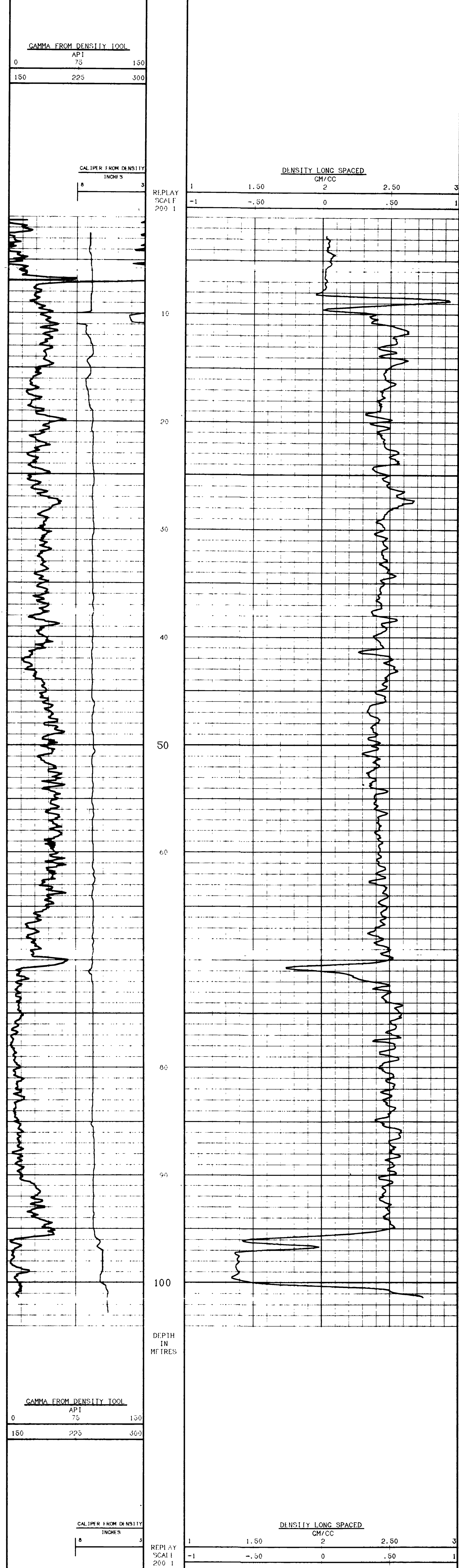
N 103 306.270 E 100 229.221

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 19 02  
FILENAME MRCE013M.C1B RUN ID MAIN LOG PLOTTED ON 01-APR-1992 AT 19 27

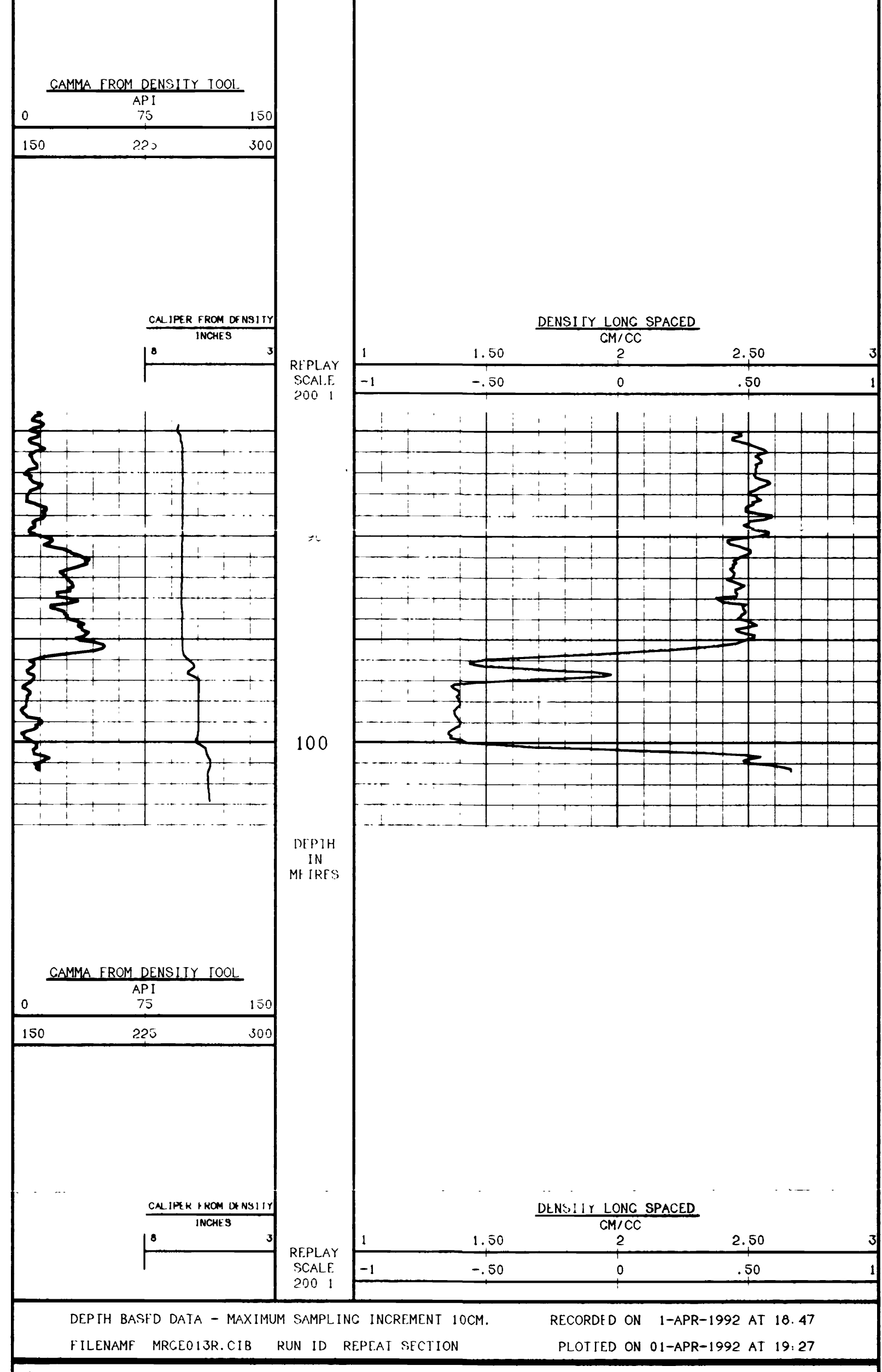


DEPTH BASED DATA - MAXIMUM SAMPLING INCREMENT 10CM. RECORDED ON 1-APR-1992 AT 19 02  
FILENAME MRCE013M.C1B RUN ID MAIN LOG PLOTTED ON 01-APR-1992 AT 19 27

**MAIN LOG**

**REPEAT SECTION**

DEPTH BASED DATA - MAXIMUM SAMPLING INCREMENT 10CM. RECORDED ON 1-APR-1992 AT 16 47  
FILENAME MRCE013R.C1B RUN ID REPEAT SECTION PLOTTED ON 01-APR-1992 AT 19 27



DEPTH BASED DATA - MAXIMUM SAMPLING INCREMENT 10CM. RECORDED ON 1-APR-1992 AT 16 47  
FILENAME MRCE013R.C1B RUN ID REPEAT SECTION PLOTTED ON 01-APR-1992 AT 19 27

**REPEAT SECTION**

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



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

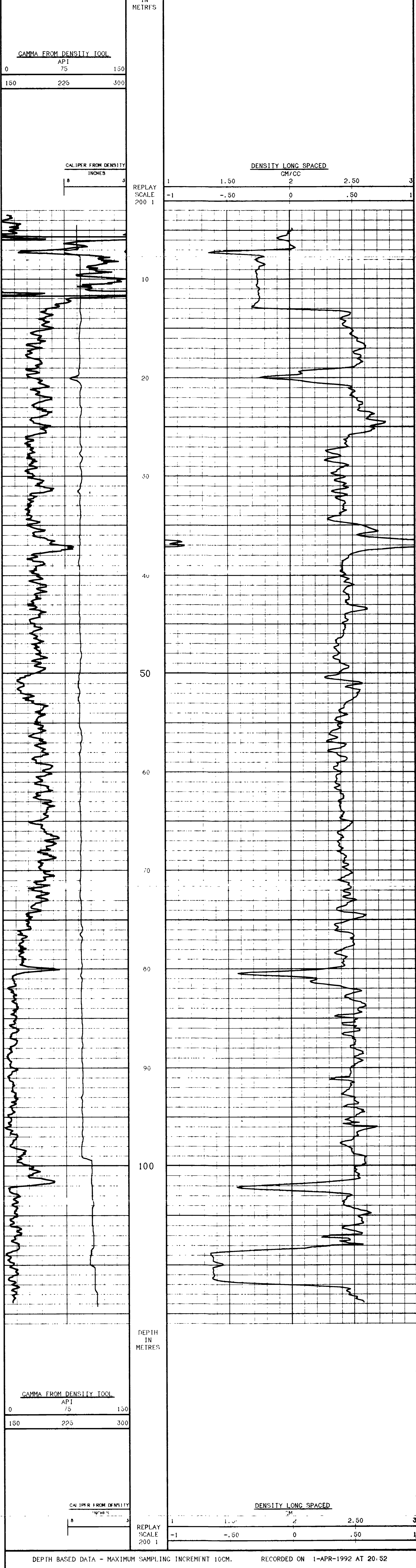
LOCATION	CAMPBELL RIVER	PROV/NC/CO.	BRITISH COLUMBIA
FIELD	QUINSAM		
WELL	92-014		
COMPANY	BRINCO COAL MINING CORP.		
PROVINCE/COUNTRY	BRITISH COLUMBIA		
COUNTRY/STATE	CANADA		
LOCATION	CAMPBELL RIVER	OTHER SERVICES	DIPMETER
LOG MEASURED FROM	CL	ELEVATION	323.53 M
DRILLING MEASURED FROM	CL	ABOVE PERMANENT DATUM	DP CL 323.53 M
DATE	1-APR-92		
RUN NUMBER	ONE		
DEPTH-METER	116.3 M		
DEPTH-LOCKER	116.0 M		
FIRST READING	0		
LAST READING	7.0 M		
CASING-DIAMETER	7.0 M		
CASING-COCKER	7.0 M		
BIT SIZE	5.5"		
HOME FLUID TYPE	VAIR		
DIMS./VISC.	1.1		
PIV/LUID LOSS	N/A		
SAMPLE SOURCE	N/A		
API & MASS TEMP			
LOG. MEAS. TEMP			
LOG. MEAS. TEMP			
TIME STAGE CIRC			
MAX REC TEMP			
EQUIPMENT/BASE	V2231 REBEER		
RECORDED BY	JCB		
WITNESSED BY			

RUN NUMBER	BOPHOLE RECORD			CASING RECORD			
	BIT	FROM	TO	SIZE	WEIGHT	FROM	TO
ONF	5.5"	99.4 M	116.3 M	7"		0	7.5 M
EQUIPMENT		PUN 1	RUN 2	RUN 3	RUN 4		
DD1		110					
<b>REMARKS</b>							
GAMMA RAY CALIPER		LONG SPACED DENSITY		SLIMLINE UNIT			
N 103 348.00		E 100 297.00					
SYSTEM CONFIGURATION DATES		LOGGED	PROCESSED	PLOTTED			

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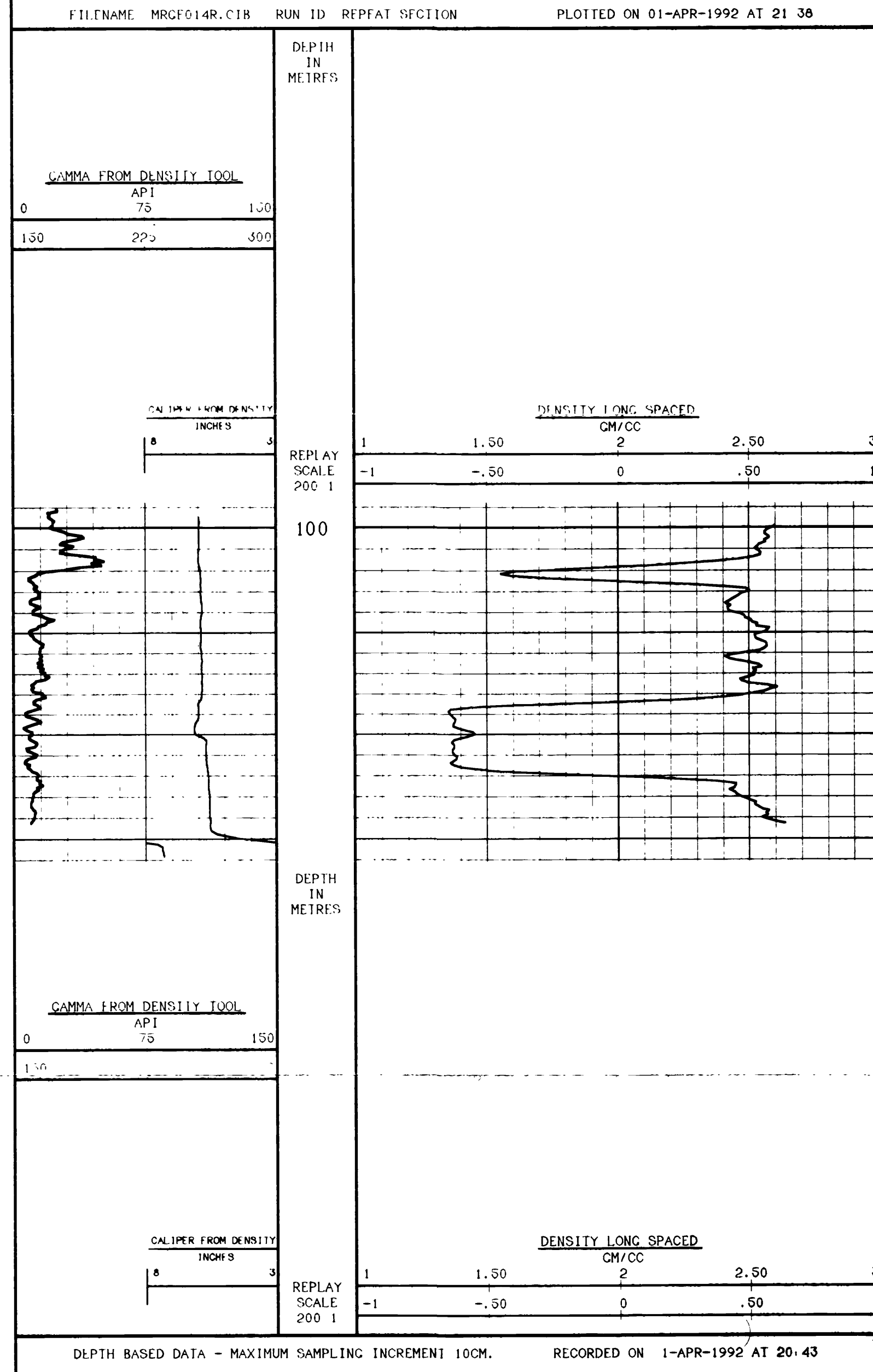
**MAIN LOG**

DEPTH BASED DATA - MAXIMUM SAMPLING INCREMENT 10CM. RECORDED ON 1-APR-1992 AT 20:52  
FILENAME MRCE014M.CIB 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.CIB RUN ID REPEAT SECTION PLOTTED ON 01-APR-1992 AT 21:38



**REPEAT SECTION**

COMPANY	BRINCO COAL MINING CORP.
WELL	92-014
FIELD	QUINSAM
PROVINCE/COUNTRY	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	92-018		
COMPANY	BRINCO COAL MINING CORP.		
PROVINCE/COUNTY	BRITISH COLUMBIA		
COUNTRY/STATE	CANADA		
PERMANENT DATUM	CL	ELEVATION	311.222 M
LOC MEASURED FROM	CL	ABOVE PERMANENT DATUM	
DRILLING MEASURED FROM	CL	CR CL	311.222 M
DATE	2-APR-92		
RUN NUMBER	ONE		
DEPTH-DRILLER	90.0 M		
DEPTH-LOGGERS	90.2 M		
FIRST READING	0		
LAST READING	5.9 M		
CASING-DRILLER	5.9 M		
CASING-LOGGERS	5.9 M		
BIT SIZE	5.5"		
WELL FLUID TYPE	WATER		
WELL FLUID LOSS	1.1		
SAMPLE SOURCE	N/A		
API @ MEAS TEMP			
API @ MEAS TEMP			
API @ MEAS TEMP			
SOURCE	RHF/RMC		
API @ BIT			
LINE SINCE CIRC			
API REC TEMP	22.3		
EQUIPMENT/BASE	2233		
RECORDED BY	JCV		
WITNESSED BY			

RUN NUMBER	BOREHOLE RECORD			CASING RECORD			
	BIT	FROM	TO	SIZE	WEIGHT	FROM	TO
ONE	5.5"	60.6 M	90.0 M	7"		0	5.9 M

EQUIPMENT	RUN 1	RUN 2	RUN 3	RUN 4
DD1	110			

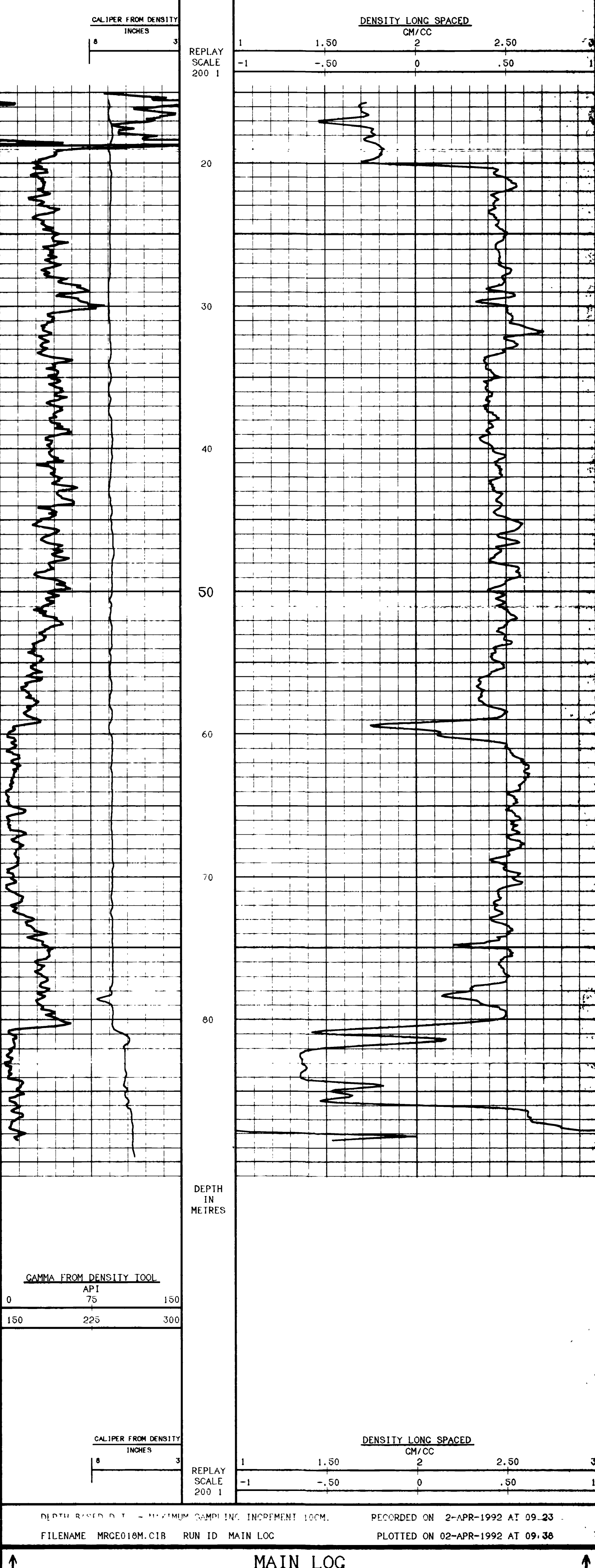
**REMARKS**  
GAMMA RAY CALIPER LONG SPACED DENSITY SLIMLINE UNIT  
N 102.736.789 E 100.030.852

SYSTEM CONFIGURATION DATES LOGGED PROCESSED PLOTTED

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**MAIN LOG**

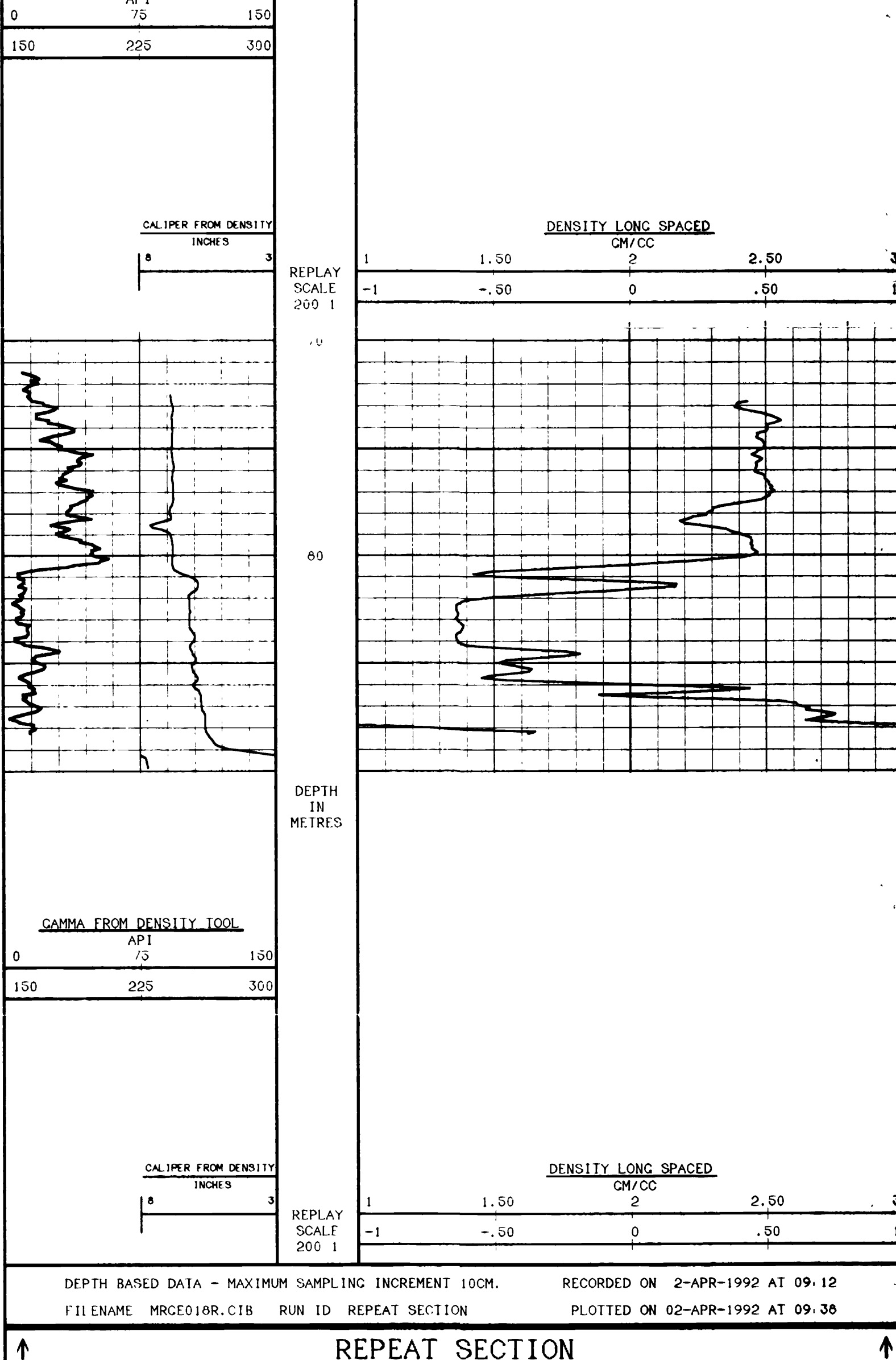
DEPTH BASED DATA - MAXIMUM SAMPLING INCREMENT 10CM. RECORDED ON 2-APR-1992 AT 09:23  
FILENAME MRCE018M.C1B RUN ID MAIN LOC PLOTTED ON 02-APR-1992 AT 09:36



DEPTH BASED DATA - MAXIMUM SAMPLING INCREMENT 10CM. RECORDED ON 2-APR-1992 AT 09:23  
FILENAME MRCE018M.C1B RUN ID MAIN LOC PLOTTED ON 02-APR-1992 AT 09:36

**REPEAT SECTION**

DEPTH BASED DATA - MAXIMUM SAMPLING INCREMENT 10CM. RECORDED ON 2-APR-1992 AT 09:12  
FILENAME MRCE018R.C1B RUN ID REPEAT SECTION PLOTTED ON 02-APR-1992 AT 09:36



DEPTH BASED DATA - MAXIMUM SAMPLING INCREMENT 10CM. RECORDED ON 2-APR-1992 AT 09:12  
FILENAME MRCE018R.C1B RUN ID REPEAT SECTION PLOTTED ON 02-APR-1992 AT 09:36

**REPEAT SECTION**

COMPANY	BRINCO COAL MINING CORP.
WELL	92-018
FIELD	QUINSAM
PROVINCE/COUNTY	BRITISH COLUMBIA
COUNTRY/STATE	CANADA

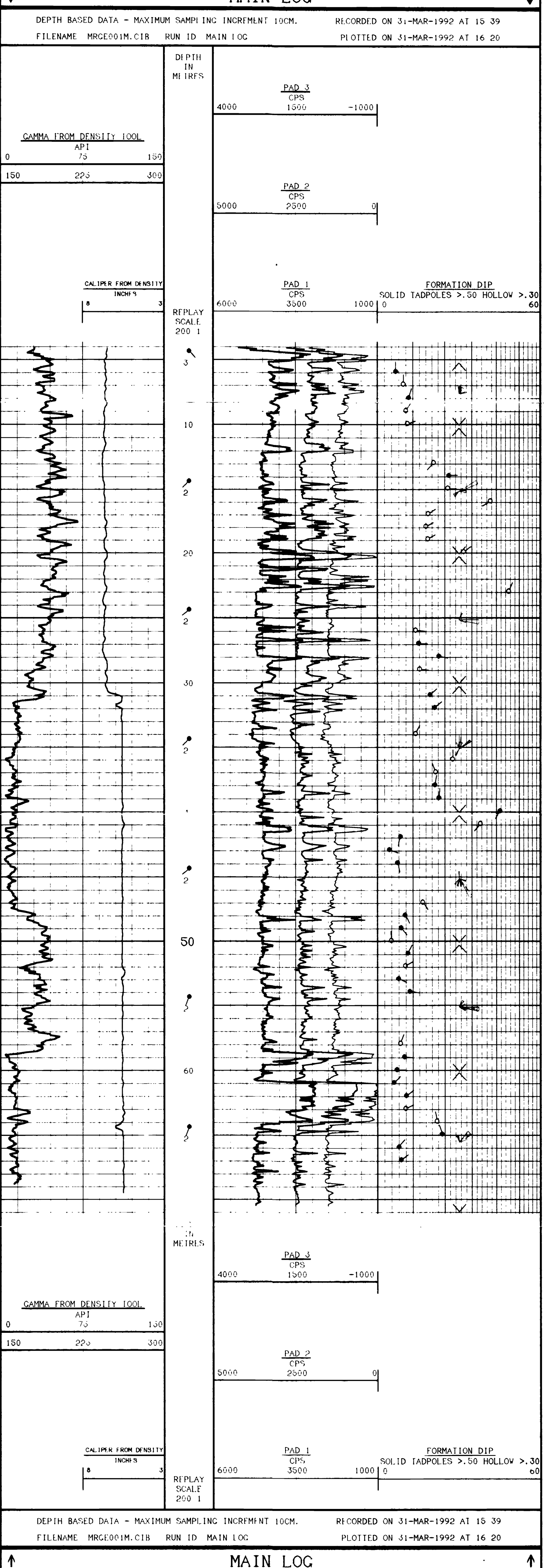


**GAMMA RAY  
DIPMETER  
SLIMLINE UNIT**

LOCATION	CAMPBELL RIVER	OTHER SERVICES	
PRVNC/CO.	BRITISH COLUMBIA	F.F.	DD1
FIELD	QUINSAM		
WELL	92-001		
COMPANY	BRINCO COAL MINING CORP.		
PROVINCE/COUNTY	BRITISH COLUMBIA		
COUNTRY/STATE	CANADA		
DATE	31-MAR-92		
PERMANENT DATUM	C.L.	ELEVATION	313.25 M
LOC. MEASURED FROM	C.I.	ABOVE PERMANENT DATUM	
DRILLING MEASURED FROM	C.I.	KR	313.25 M
		CI	313.25 M
RUN NUMBER	001		
DEPTH-DRILLER	70.5 M		
DEPTH-LOGGER	70.5 M		
FIRST READING	70.5 M		
LAST READING	0		
CASING-DRILLER	4.4 M		
CASING-LOGGER	4.4 M		
BIT SIZE	5.5"		
HOLE FLUID TYPE	WATER		
DENS./VISC.	1.1		
PH/FLUID LOSS			
SAMPLE SOURCE			
RH/MEAS TEMP			
RH/MEAS TEMP			
SCALING - RH/EMC			
RH/EMC			
TIME SINCE CLRC			
MAX REC TEMP			
RECORD PRINT/BASE	V223	REFERR	
RECORDED BY	JCV		
WITNESSED 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		RUN 1	RUN 2	RUN 3	RUN 4		
DIPMETER		202/204					
<b>REMARKS</b>							
GAMMA RAY		DIPMETER		SLIMLINE UNIT			
N 103 526.20		E 99 063.53					
SYSTEM CONFIGURATION DATES		LOGGED	PROCESSED	PLOTTED			

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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 20

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	
PRVNC/CO.	BRITISH COLUMBIA		
FIELD	QUINSAM		
WELL	92-004		
COMPANY	BRINCO COAL MINING CORP.		
PROVINCE/COUNTY	BRITISH COLUMBIA		
COUNTRY/STATE	CANADA		
PERMANENT DATUM	CL	ELEVATION 311.66 M	KB
LOG MEASUREMENT FROM	CL	ABOVE PERMANENT DATUM	CI
DRILLING MEASUREMENT FROM	CL		CI
DATE	1-APR-92		
RUN NUMBER	001		
DEPTH-DRILLER	04.0 M		
DEPTH-LOGGR	01.6 M		
FIRST READING	0		
LAST READING	3.8 M		
CASING-DRILLER	4.8 M		
CASING-LOGGR	5.3 M		
BIT SIZE	5.3"		
HOLE FLUID TYPE	WATER		
DENS. FLUID	1.1		
FLUID LOSS	N/A		
SAMPLE SOURCE			
TEMP. MEAS. TEMP.			
TEMP. MEAS. TEMP.			
SOURCE			
TIME SINCE CIRC.			
AX. REC. TEMP.			
EQUIPMENT/BASE	V233 REDEER		
RECORDED BY	JCV		
WITNESSED BY			

RUN NUMBER	BOREHOLE RECORD		CASING RECORD			
	BIT	FROM TO	SIZE	WEIGHT	FROM	TO
ONE	3.5"	3.3 M 04.0 M	7"		0	3.8 M

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

**REMARKS**

GAMMA RAY      DIPMETER      SLIMLINE UNIT

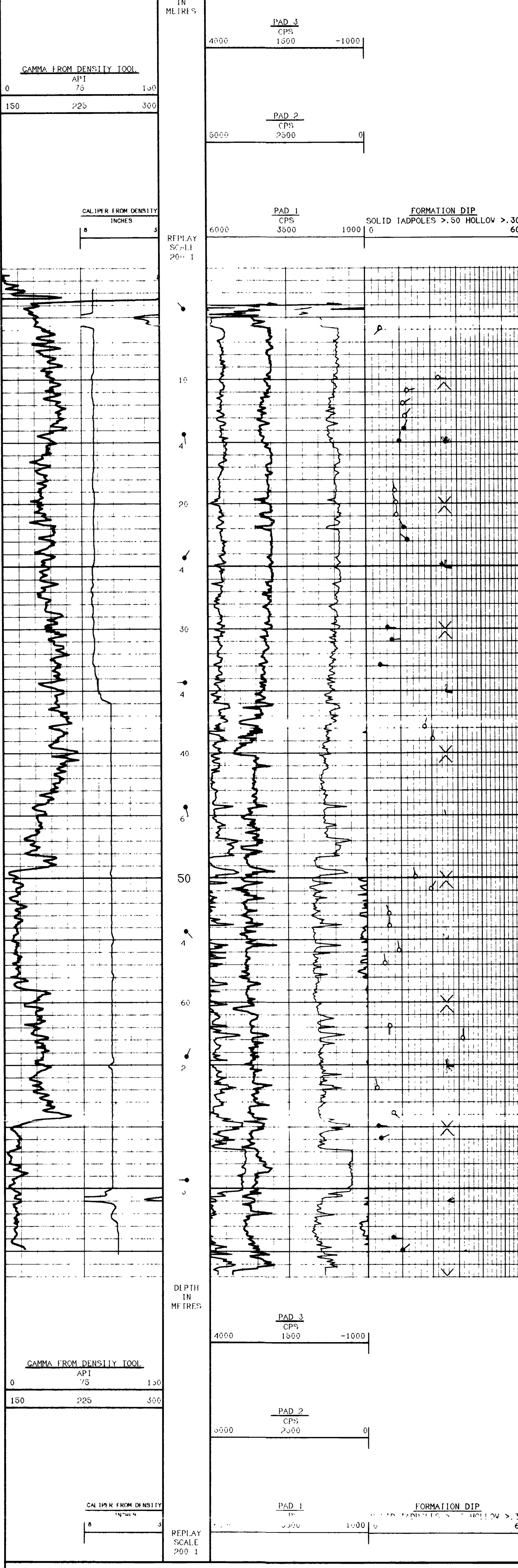
N 103 353.991      E 100 002.72

SYSTEM CONFIGURATION DATA      LOGGED      PROCESSED      PLOTTED

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**MAIN LOG**

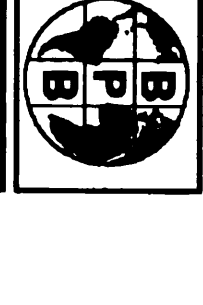
DEPTH BASED DATA - MAXIMUM SAMPLING INCREMENT 10CM.      RECORDED ON 1-APR-1992 AT 07 15  
 FILENAME MRCE004M.C1B      RUN ID MAIN LOG      PLOTTED ON 01-APR-1992 AT 08 08



DEPTH BASED DATA - MAXIMUM SAMPLING INCREMENT 10CM.      RECORDED ON 1-APR-1992 AT 07 15  
 FILENAME MRCE004M.C1B      RUN ID MAIN LOG      PLOTTED ON 01-APR-1992 AT 08 08

**MAIN LOG**

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



**GAMMA RAY  
DIPMETER  
SLIMLINE UNIT**

COMPANY	BRINCO COAL MINING CORP.
WELL	92-005
FIELD	QUINSAM
PROVINCE/COUNTY	BRITISH COLUMBIA
COUNTRY/STATE	CANADA
LOCATION	CAMPBELL RIVER
PRVNC/CO.	BRITISH COLUMBIA
FIELD	QUINSAM
WELL	92-005
COMPANY	BRINCO COAL MINING CORP.
PERMANENT DATUM	CL
LOC. MEASURED FROM	CL
DRILLING MEASURED FROM	CL
DATE	1-APR-92
RUN NUMBER	001
DEPTH-DRILLER	70.4 M
DEPTH-LOCER	77.2 M
FIRST READING	0
LAST READING	5.7 M
CASING-DRILLER	5.7 M
CASING-LOCER	5.5*
BIT SIZE	5.5*
WELL FLUID TYPE	VAIR
WELL FLUID LOSS	1.1
SAMPLE SOURCE	N/A
WELL MEAS. TEMP	
WELL MEAS. TEMP	
SOURCE RNF/IRMC	
TIME SINCE CIRC	
EQUIPMENT/BASE	V223 TR DTRR
RECORDED BY	JCU
WITNESSED BY	

RUN NUMBER	BORTHOLE RECORD			CASING RECORD		
	BIT	FROM	TO	SIZE	WEIGHT	FROM TO
ONE	3.5"	33.4 M	8.4 M			0 5.7 M

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

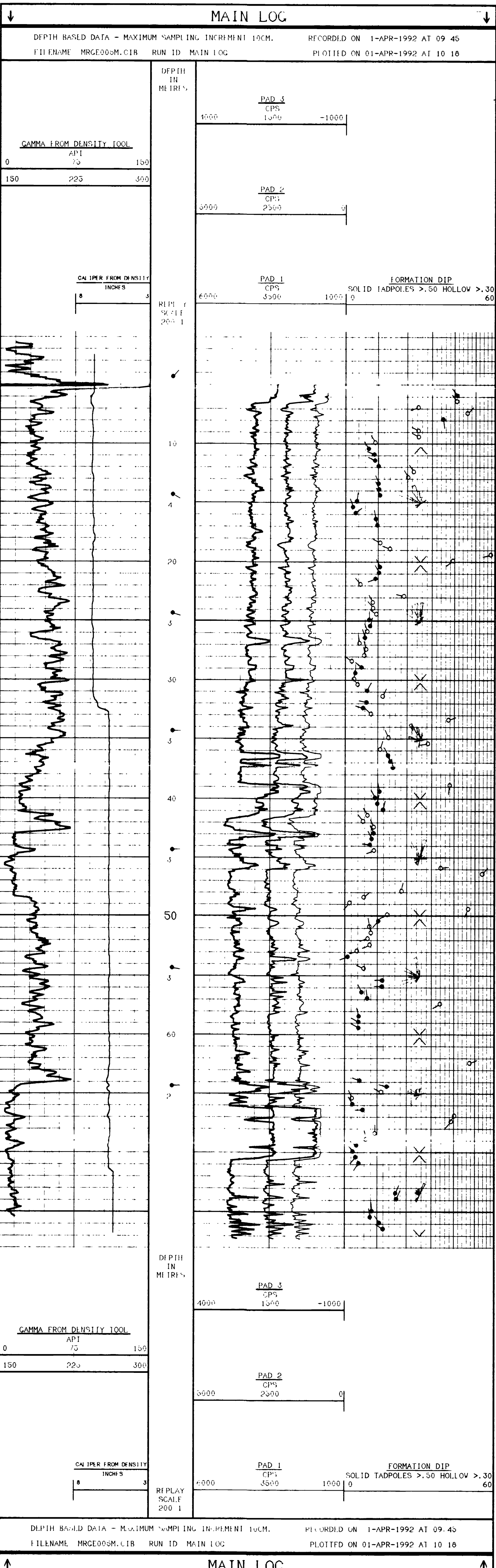
**REMARKS**

GAMMA RAY DIPMETER SLIMLINE UNIT

N 103 277.52 E 99 930.55

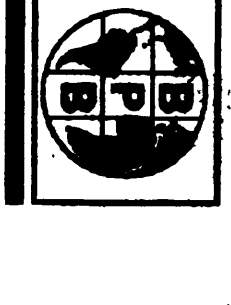
SYSTEM CONFIGURATION DATA'S LOGGED      PROCESSED      PLOTTED

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





**CAMMA RAY  
DIPMETER  
SLIMLINE UNIT**

LOCATION	CAMPBELL RIVER	OTHER SERVICES	DD1
PRVNC/CO.	BRITISH COLUMBIA		F.F.
FIELD	QUINSAM		
WELL	92-007		
COMPANY	BRINCO COAL MINING CORP.		
PROVINCE/COUNTY	BRITISH COLUMBIA		
COUNTRY/STATE	CANADA		
PERMANENT DATUM	CL	ELEVATION 321.85 M	K8 OF CL 321.85 M
LOC MEASURED FROM	CL	ABOVE PERMANENT DATUM	
DRILLING MEASURED FROM	CL		
DATE	1-APR-92		
RUN NUMBER	ONE		
DEPTH-DRILLER	79.9 M		
DEPTH-LOGGER	78.8 M		
FIRST READING	0		
LAST READING	6.0 M		
CASING-DRILLER	2.3 M		
CASING-LOGGER	5.5"		
BIT SIZE	5.5"		
HOLE FLUID TYPE	WATER		
DENS. A/ISC	1.1		
RH/FLUID LOSS	N/A		
SAMPLE SOURCE	N/A		
RH @ MEAS TEMP			
RH @ MEAS TEMP			
RH @ MEAS TEMP			
RH @ MEAS TEMP			
SOURCE RHF/RH/C			
RM @ BHT			
TIME SINCE CIRC			
MAX REC TEMP			
EQUIPMENT/BASE	V223		
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		
DIPMETER		202/204					

**REMARKS**

CAMMA RAY                      DIPMETER                      SLIMLINE UNIT

N 102 999.499                      E 99 868.12

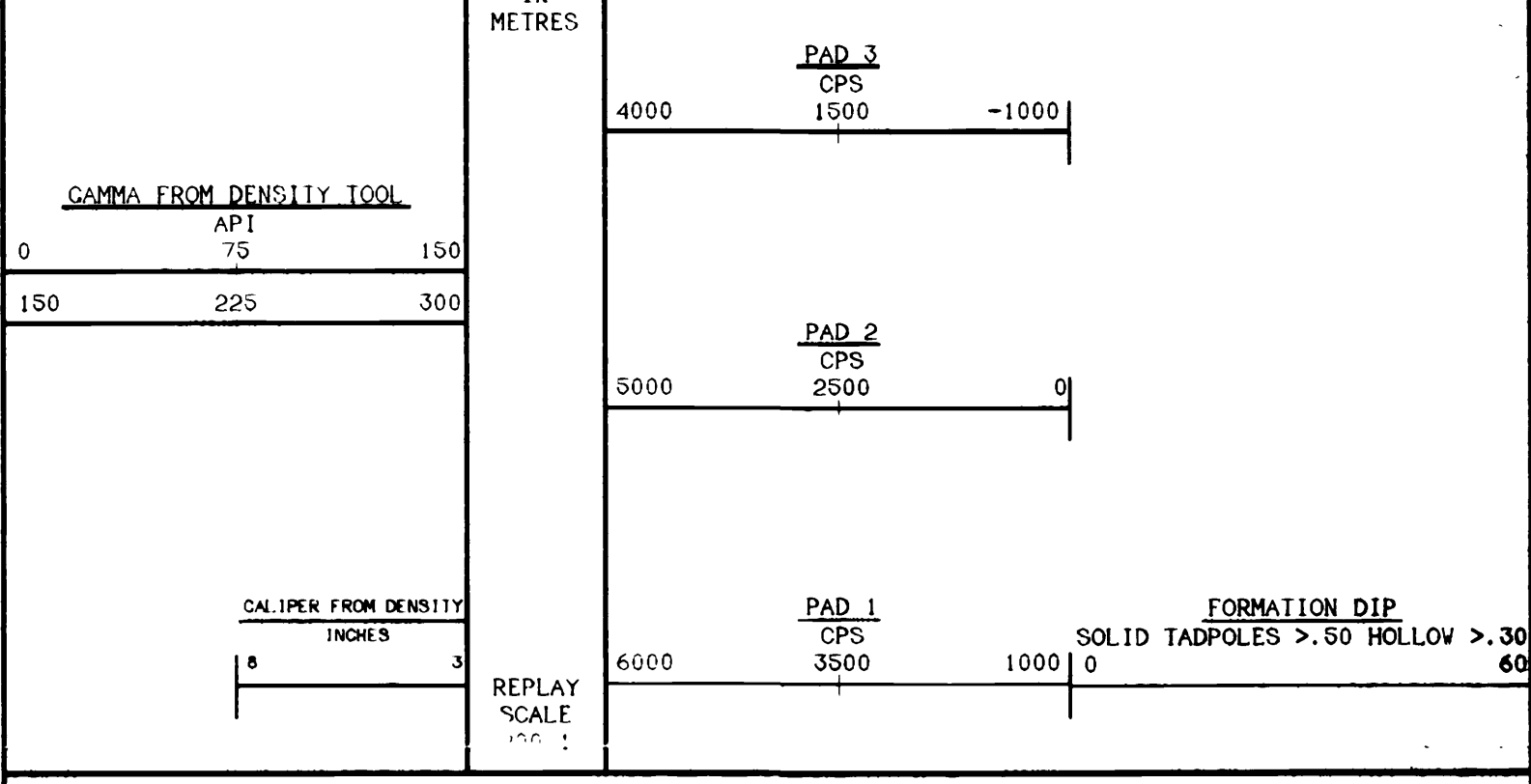
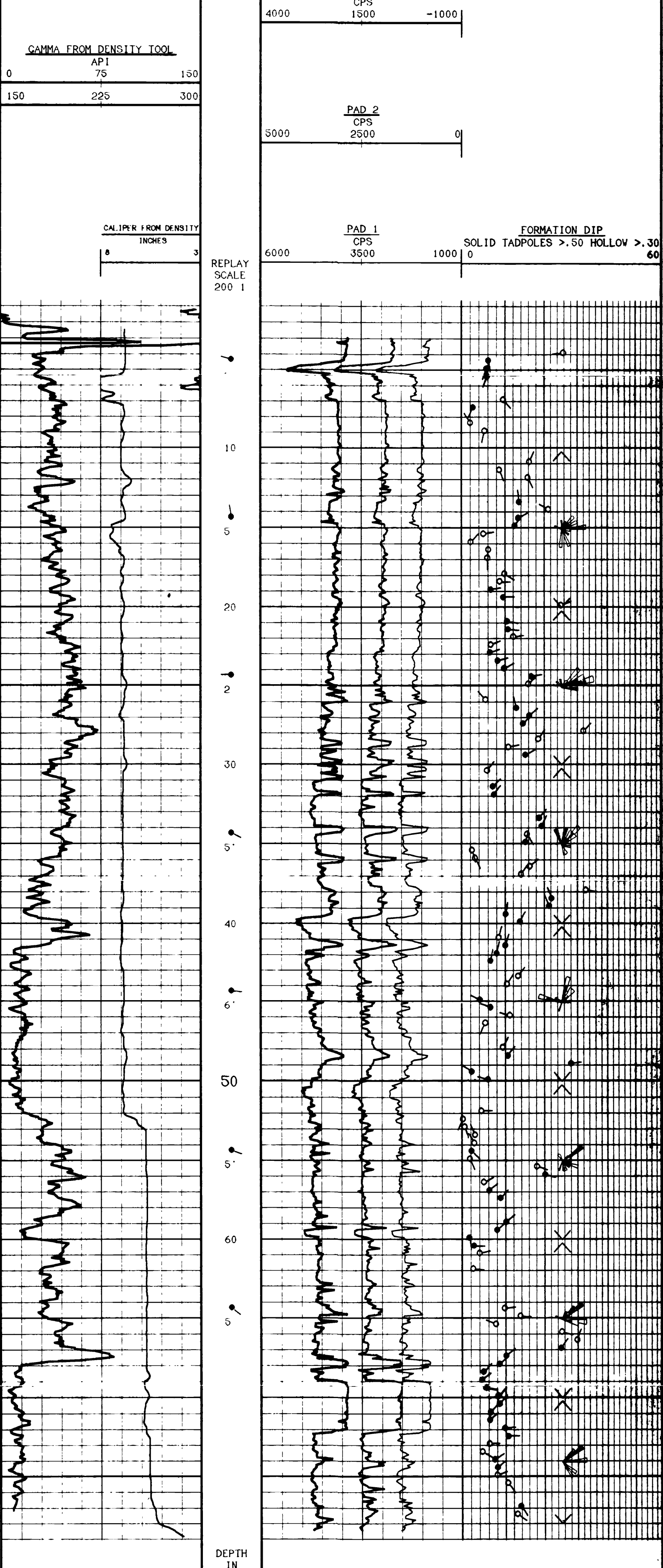
SYSTEM CONFIGURATION DATES    LOCCID                      PROCESSED                      PLOTTED

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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 LOC                      PLOTTED ON 01-APR-1992 AT 12:24

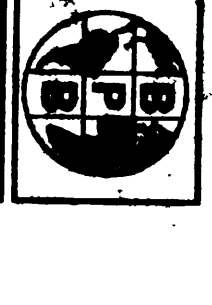


DEPTH BASED DATA - MAXIMUM SAMPLING INCREMENT 10CM.                      RECORDED ON 1-APR-1992 AT 11:50

FILENAME MRCE007M.CIB                      RUN ID MAIN LOC                      PLOTTED ON 01-APR-1992 AT 12:24

**MAIN LOG**

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



**GAMMA RAY  
DIPMETER  
SLIMLINE UNIT**

COMPANY <b>BRINCO COAL MINING CORP.</b>	WELL <b>92-008</b>	FIELD <b>QUINSAM</b>	PROVINCE/COUNTY <b>BRITISH COLUMBIA</b>	COUNTRY/STATE <b>CANADA</b>
LOCATION <b>CAMPBELL RIVER</b>	OTHER SERVICES <b>DDI</b>	PRVNC/CO. <b>BRITISH COLUMBIA</b>	FIELD <b>QUINSAM</b>	COMPANY <b>BRINCO COAL MINING CORP.</b>
VELL. <b>92-008</b>	ELEVATION 328.56 M ABOVE PERMANENT DATUM	PERMANENT DATUM CL.	LOC MEASURED FROM CL.	DRILLING MEASURED FROM CL.
DATE <b>1-APR-92</b>	RUN NUMBER <b>ONE</b>	DEPTH-DRILLER <b>72.3 M</b>	DEPTH-LOGGER <b>72.4 M</b>	FIRST READING <b>72.4 M</b>
LAST READING <b>0</b>	CASING-DRILLER <b>2.0 M</b>	CASING-LOGGER <b>2.0 M</b>	CASING-LOCKER <b>2.0 M</b>	BIT SIZE <b>S.S.</b>
JOLE FLUID TYPE <b>WATER</b>	VENS. VISC. <b>1.1</b>	H/FLUID LOSS <b>N/A</b>	SAMPLE SOURCE <b>N/A</b>	EN @ MEAS TEMP <b>N/A</b>
EN @ MEAS TEMP <b>N/A</b>	SOURCE RHT/RNG <b>N/A</b>	EN @ BIT <b>N/A</b>	AX REG TEMP <b>V223 R DEER</b>	EQUIPMENT/BASE <b>JCV</b>
RECORDED BY <b>JCV</b>	WITNESSED BY	ELEVATIONS KR CL. 328.56 M CI	F.F.	LOCATION <b>CAMPBELL RIVER</b>

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		
DIPMETER		202/204					

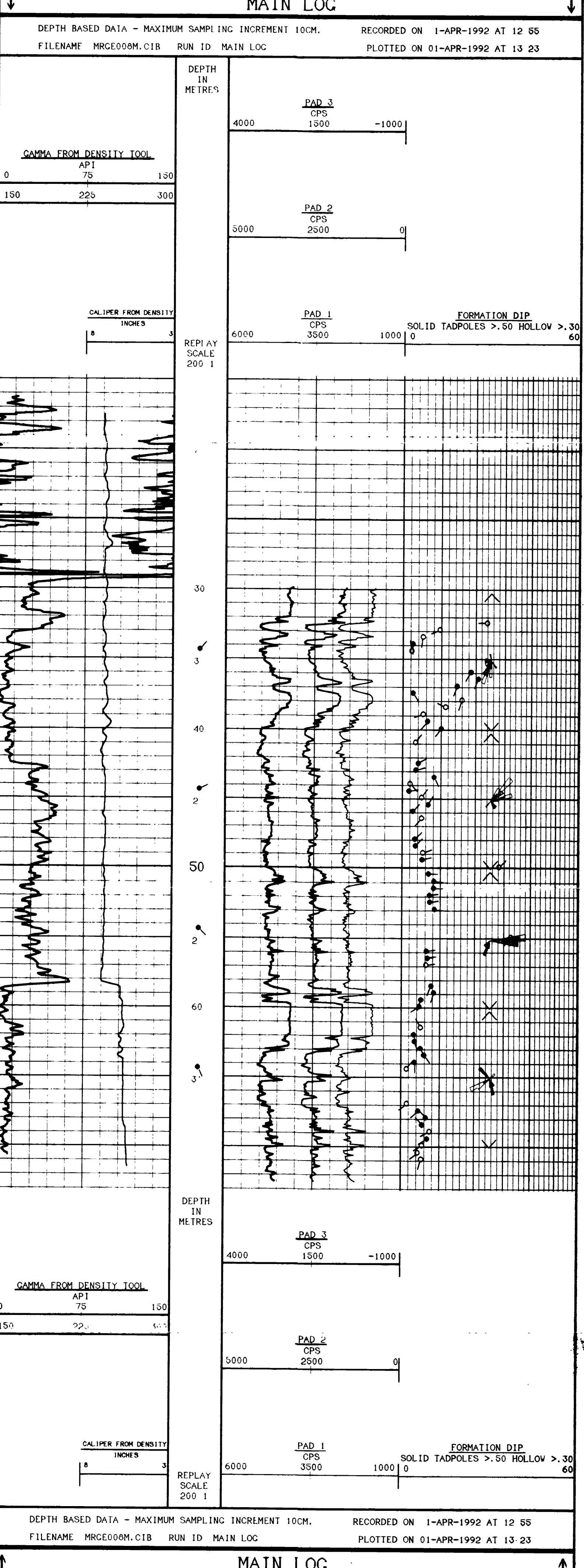
**REMARKS**

GAMMA RAY                      DIPMETER                      SLIMLINE UNIT

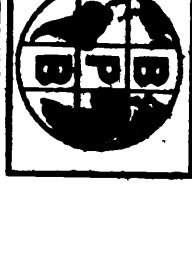
N 103 069.49      E 99 754.46

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 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	92-008
FIELD	QUINSAM
PROVINCE/COUNTY	BRITISH COLUMBIA
COUNTRY/STATE	CANADA



**GAMMA RAY  
DIPMETER  
SLIMLINE UNIT**

<p>LOCATION CAMPBELL RIVER PRVNC/CO. BRITISH COLUMBIA FIELD QUINSAM WELL 92-009 COMPANY BRINCO COAL MINING CORP.</p> <p>PROVINCE/COUNTY BRITISH COLUMBIA COUNTRY/STATE CANADA</p>	<p>OTHER SERVICES DD1 F.E.</p> <p>LOCATION CAMPBELL RIVER LSD SEC TYP RCF</p> <p>REPERMANT DATUM CL ELEVATION 321.36 M LOG MEASURED FROM CL ABOVE PERMANENT DATUM</p> <p>DATE 1-APR-92 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"</p> <p>HOLE FLUID TYPE WATER DENS./VISC. 1.1 PH/FLUID LOSS N/A SAMPLE SOURCE N/A RM @ MEAS TEMP RM @ MEAS TEMP SOURCE RMF/RMC RM @ BIT TIME SINCE CIRC MAX REC TEMP EQUIPMENT/BASE V233 REEFER RECORDED BY JCV WITNESSED BY</p>
---	---

RUN NUMBER	BOREHOLE RECORD		CASING RECORD				
	BIT	FROM	TO	SIZE	WEIGHT	FROM	TO
ONE	5.5"	34.8 M	64.9 M	7"		0	2.5 M
EQUIPMENT		RUN 1	RUN 2	RUN 3	RUN 4		
DIPMETER		202/204					

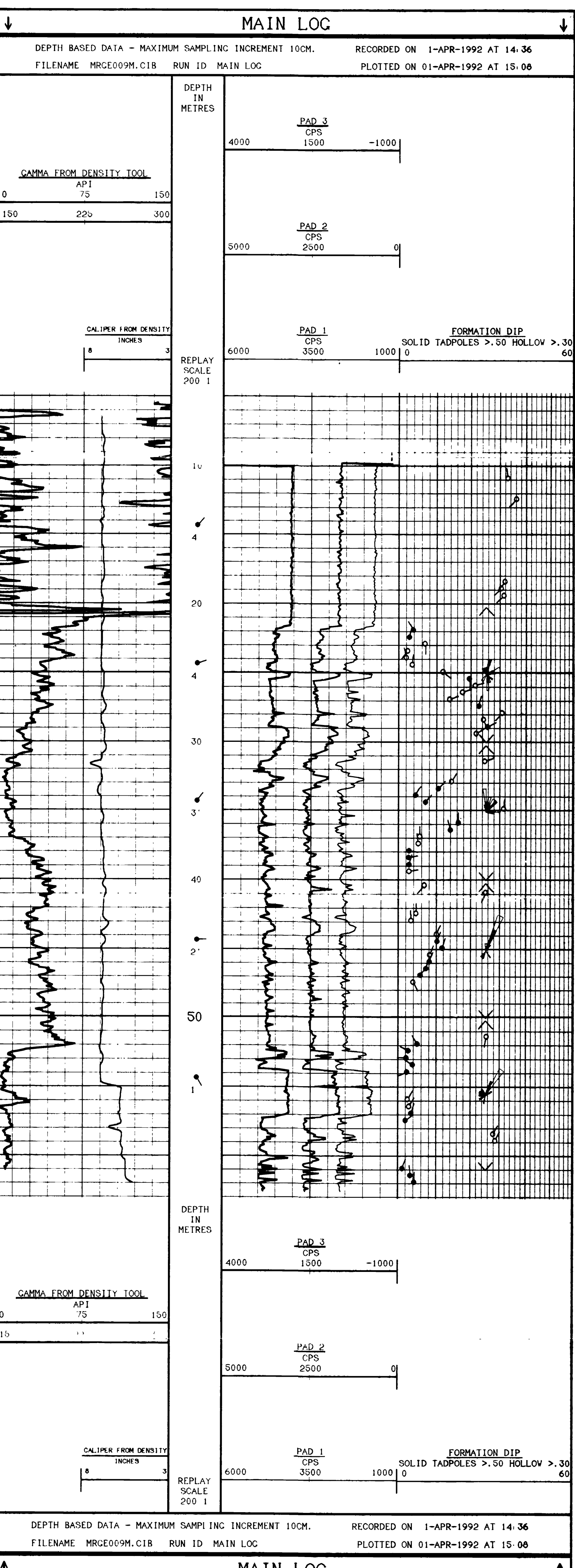
**REMARKS**

GAMMA RAY                      DIPMETER                      SLIMLINE UNIT

N 103 195.29    E 99 796.674

SYSTEM CONFIGURATION DATES    LOGGED                      PROCESSED                      PLOTTED

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**MAIN LOG**

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







**GAMMA RAY  
DIPMETER  
SLIMLINE UNIT**

LOCATION	CAMPBELL RIVER	COMPANY	BRINCO COAL MINING CORP.
PRVNC/CO.	BRITISH COLUMBIA	WELL	92-011
FIELD	QUINSAM	PROVINCE/COUNTY	BRITISH COLUMBIA
WELL	92-011	COUNTRY/STATE	CANADA
COMPANY	BRINCO COAL MINING CORP.	OTHER SERVICES	DD1
LOCATION	CAMPBELL RIVER	LOG MEASURED FROM	CL
PERMANENT DATUM	CL	ELEVATION	316.46 M
LOG MEASURED FROM	CL	ABOVE PERMANENT DATUM	
DRILLING MEASURED FROM	CL	KB	CL
DATE	1-APR-92	ELEVATIONS:	CL 316.46 M
RUN NUMBER	ONE		
DEPTH-DRILLER	101.2 M		
DEPTH-LOGGER	96.1 M		
FIRST READING	96.1 M		
LAST READING	0		
CASING-DRILLER	13.7 M		
CASING-LOGGER	13.6 M		
BIT SIZE	5.5"		
SOLE FLUID TYPE	WATER		
SENS./VISC.	1.1		
FLUID LOSS	N/A		
SAMPLE SOURCE	N/A		
MT @ MEAS TEMP			
MT @ MEAS TEMP			
SOURCE: RHT/RMC			
MT @ BIT			
MT @ BIT			
AX REC TEMP	V273	RELEASER	
EQUIPMENT/BASE	JCV		
RECORDED BY			
WITNESSED BY			

RUN NUMBER	BOREHOLE RECORD			SIZE	CASING RECORD		
	BIT	FROM	TO		WEIGHT	FROM	TO
ONE	5.5"	74.7 M	101.2 M	7"		0	13.5 M
EQUIPMENT							
DIPMETER	RUN 1 262/204			RUN 2	RUN 3	RUN 4	

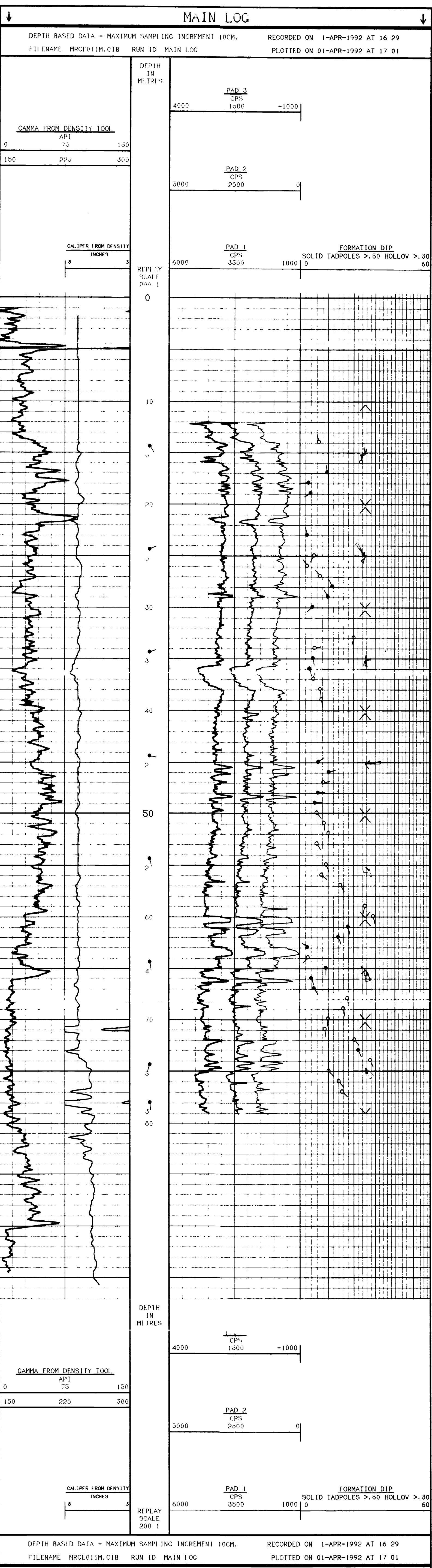
**REMARKS**

GAMMA RAY                      DIPMETER                      SLIMLINE UNIT

N 103 201.00                      E 100 193.90

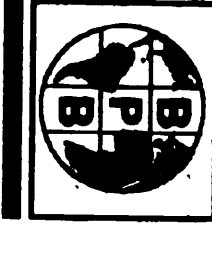
SYSTEM CONFIGURATION DATA    LOGGED                      PROCESSED                      PLOTTED

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COMPANY	BRINCO COAL MINING CORP.
WELL	92-011
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	LSD	
WELL	92-013	SEC	
COMPANY	BRINCO COAL MINING CORP.	TYP	
		RCI	
		ELEVATION	318.52 M
		ABOVE PERMANENT DATUM	
		PERMANENT DATUM	CL
		LOG MEASURED FROM	CL
		DRILLING MEASURED FROM	CL
DATE	1-APR-92	DATE	
RUN NUMBER	ONE	RUN NUMBER	
DEPTH-DRILLER	106.0 M	DEPTH-DRILLER	
DEPTH-OCCUR	103.0 M	DEPTH-OCCUR	
FIRST READING	103.0 M	FIRST READING	
LAST READING	0	LAST READING	
CASING-DRILLER	11.4 M	CASING-DRILLER	
CASING-OCCUR	11.4 M	CASING-OCCUR	
BIT SIZE	5.5"	BIT SIZE	
HOLE FLUID TYPE	WATER	HOLE FLUID TYPE	
DENS. VISC.	1.1	DENS. VISC.	
PH/FLUID LOSS	N/A	PH/FLUID LOSS	
SAMPLE SOURCE	N/A	SAMPLE SOURCE	
RH @ MEAS TEMP		RH @ MEAS TEMP	
RHC @ MEAS TEMP		RHC @ MEAS TEMP	
SOURCE RH/EMC		SOURCE RH/EMC	
RH @ BIT		RH @ BIT	
TIME SINCE CIRC		TIME SINCE CIRC	
MAX REC TEMP		MAX REC TEMP	
EQUIPMENT/FASE	V223	EQUIPMENT/FASE	
RECORDED BY	JCV	RECORDED BY	
WITNESSED BY		WITNESSED BY	

RUN NUMBER	BOREHOLE RECORD			CASING RECORD			
	BIT	FROM	TO	SIZE	WEIGHT	FROM	TO
ONE	5.5"	96.6 M	106.0 M	7"		0	11.4 M

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

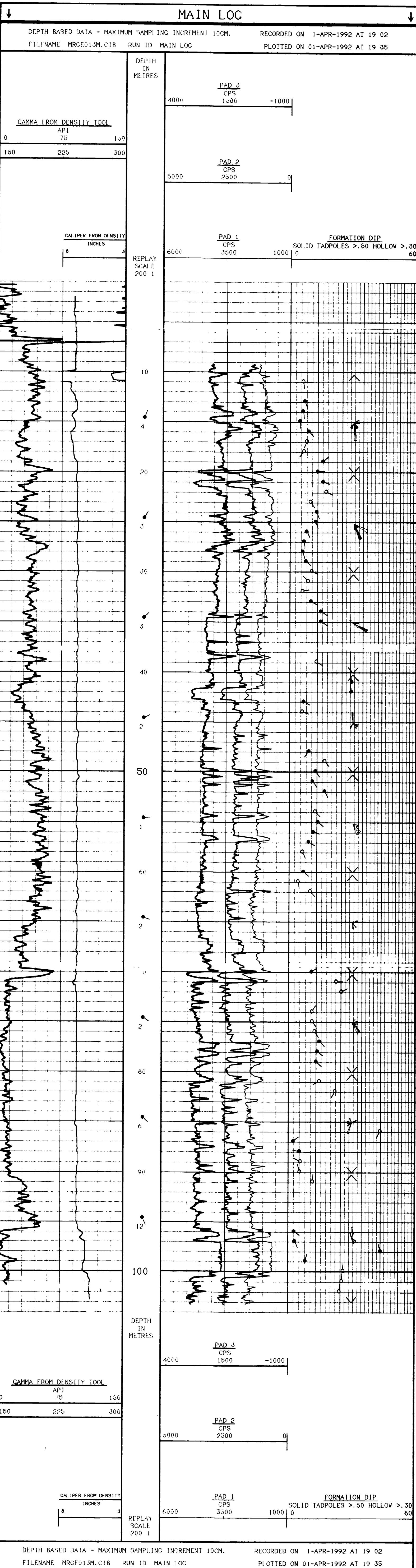
**REMARKS**

GAMMA RAY                      DIPMETER                      SLIMLINE UNIT

N 103 305.2                      1 100 229.221

SYSTEM CONFIGURATION DATA    LOGGED                      PROCESSED                      PLOTTED

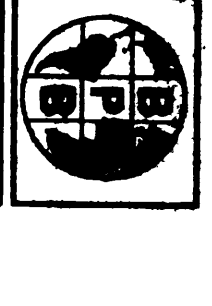
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**MAIN LOG**

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	DD1
PRVNC/CO.	BRITISH COLUMBIA		
FIELD	QUINSAM		
WELL	92-017		
COMPANY	BRINCO COAL MINING CORP.		
PROVINCE/COUNTY	BRITISH COLUMBIA		
COUNTRY/STATE	CANADA		
PERMANENT DATUM CL.		LOC MEASURED FROM CL.	ELEVATION 320.857
DRILLING MEASURED FROM CL.		LOC MEASURED FROM CL.	ABOVE PERMANENT DATUM
DATE	2-APR-92	DATE	2-APR-92
RUN NUMBER	ONE	RUN NUMBER	ONE
DEPTH-DRILLER	91.2 M	DEPTH-DRILLER	91.2 M
DEPTH-COGER	87.7 M	DEPTH-COGER	87.7 M
FIRST READING	0	FIRST READING	0
LAST READING	0	LAST READING	0
CASTING-DRILLER	2.8 M	CASTING-DRILLER	2.8 M
CASTING-COGER	2.8 M	CASTING-COGER	2.8 M
BIT SIZE	5.5"	BIT SIZE	5.5"
HOLE FLUID TYPE	WATER	HOLE FLUID TYPE	WATER
DENS./VISC.	1.1	DENS./VISC.	1.1
PH/FLUID LOSS	N/A	PH/FLUID LOSS	N/A
SAMPLE SOURCE		SAMPLE SOURCE	
RM @ MEAS TEMP		RM @ MEAS TEMP	
RM @ MEAS TEMP		RM @ MEAS TEMP	
SCALING RMF/RMC		SCALING RMF/RMC	
RM @ BIT		RM @ BIT	
TIME SINCE CIRC		TIME SINCE CIRC	
MAX REC TEMP		MAX REC TEMP	
EQUIPMENT/BASE	V223	EQUIPMENT/BASE	V223
RECORDED BY	JCV	RECORDED BY	JCV
WITNESSED BY		WITNESSED BY	

RUN NUMBER	BOREHOLE RECORD			CASING RECORD			
	BIT	FROM	TO	SIZE	WEIGHT	FROM	TO
ONE	5.5"	79.5 M	91.2 M	7"		0	2.8 M
EQUIPMENT		RUN 1	RUN 2	RUN 3	RUN 4		
DIPMETER		202/204					

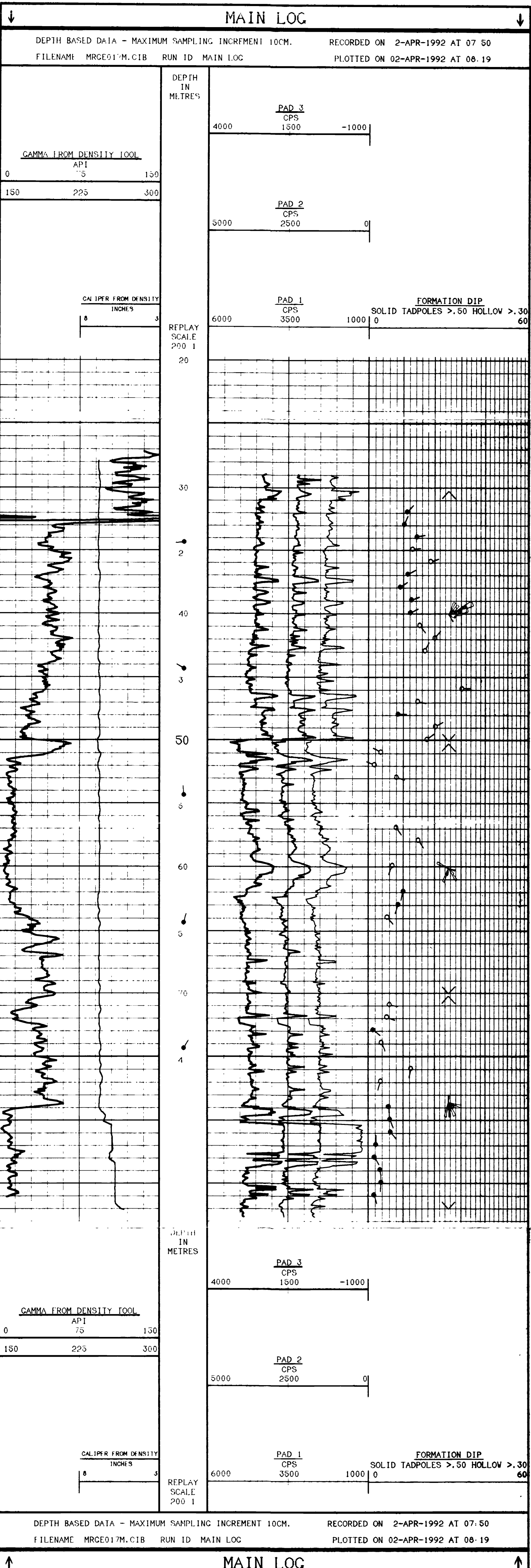
**REMARKS**

GAMMA RAY                      DIPMETER                      SLIMLINE UNIT

N 102 737.515                      F 99 906.322

SYSTEM CONFIGURATION DATES    LOGGED                      PROCESSED                      PLOTTED

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COMPANY	BRINCO COAL MINING CORP.
WELL	92-017
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  
PRVNG/CO. BRITISH COLUMBIA  
FIELD QUINSAM  
WELL 92-001  
COMPANY BRINCO COAL MINING CORP.

OTHER SERVICES  
DIPMETER  
DDI

PERFORM DATION C.L.  
LOC MEASURED FROM CL  
DRILLING MEASURED FROM C.L.

DATE 31-MAR-92  
RUN NUMBER ONE

DEPTH-DRILLER 70.5 M  
DEPTH-LOGGER 70.5 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./VISC. 1.1  
PH/FLUID LOSS

SAMPLE SOURCE  
BRI @ MEAS TEMP  
BRI @ HWS TEMP  
SOURCE BRI/HWS

THE SLING CIRC  
TICK REC TEMP  
EQUIPMENT BASE

WITNESSED BY VESSI REBERER  
JCB

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
FE				

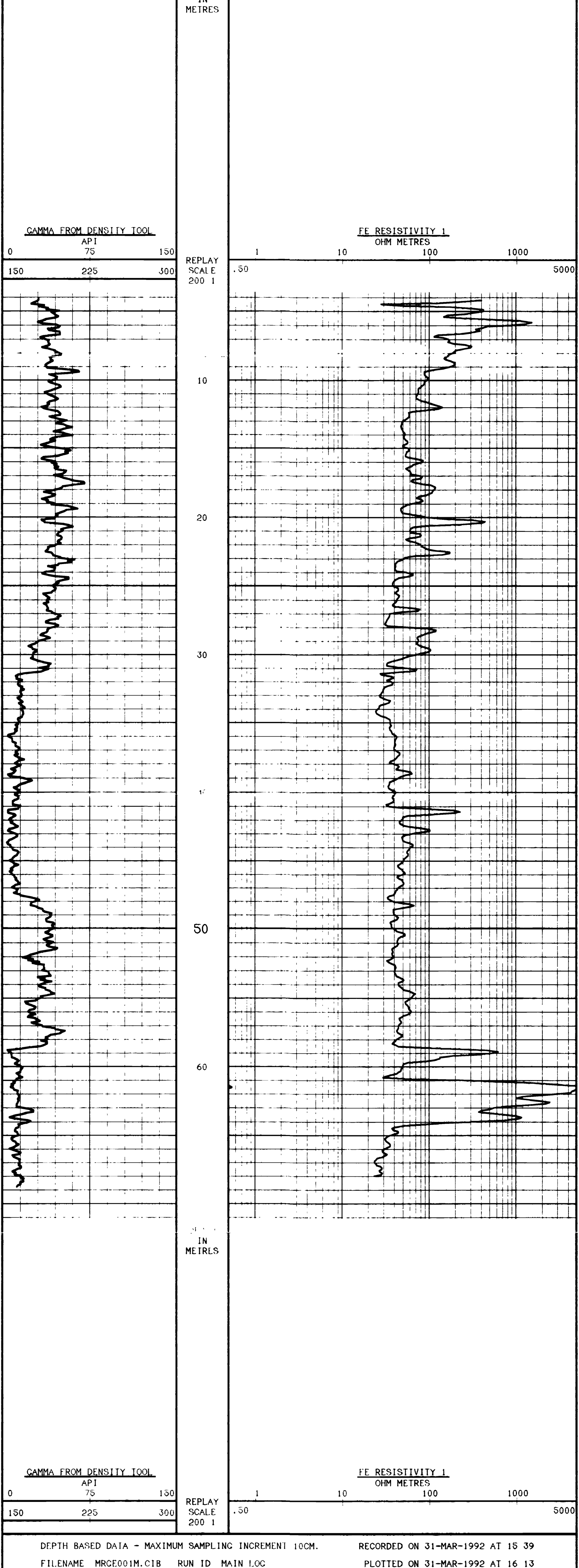
**REMARKS**  
GAMMA RAY FOCUSS ELECTRIC SLIMLINE UNIT  
N 103 526.20 E 99 883.53

SYSTEM CONFIGURATION DATES LOGGED PROCESSED PLOTTED

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**MAIN LOG**

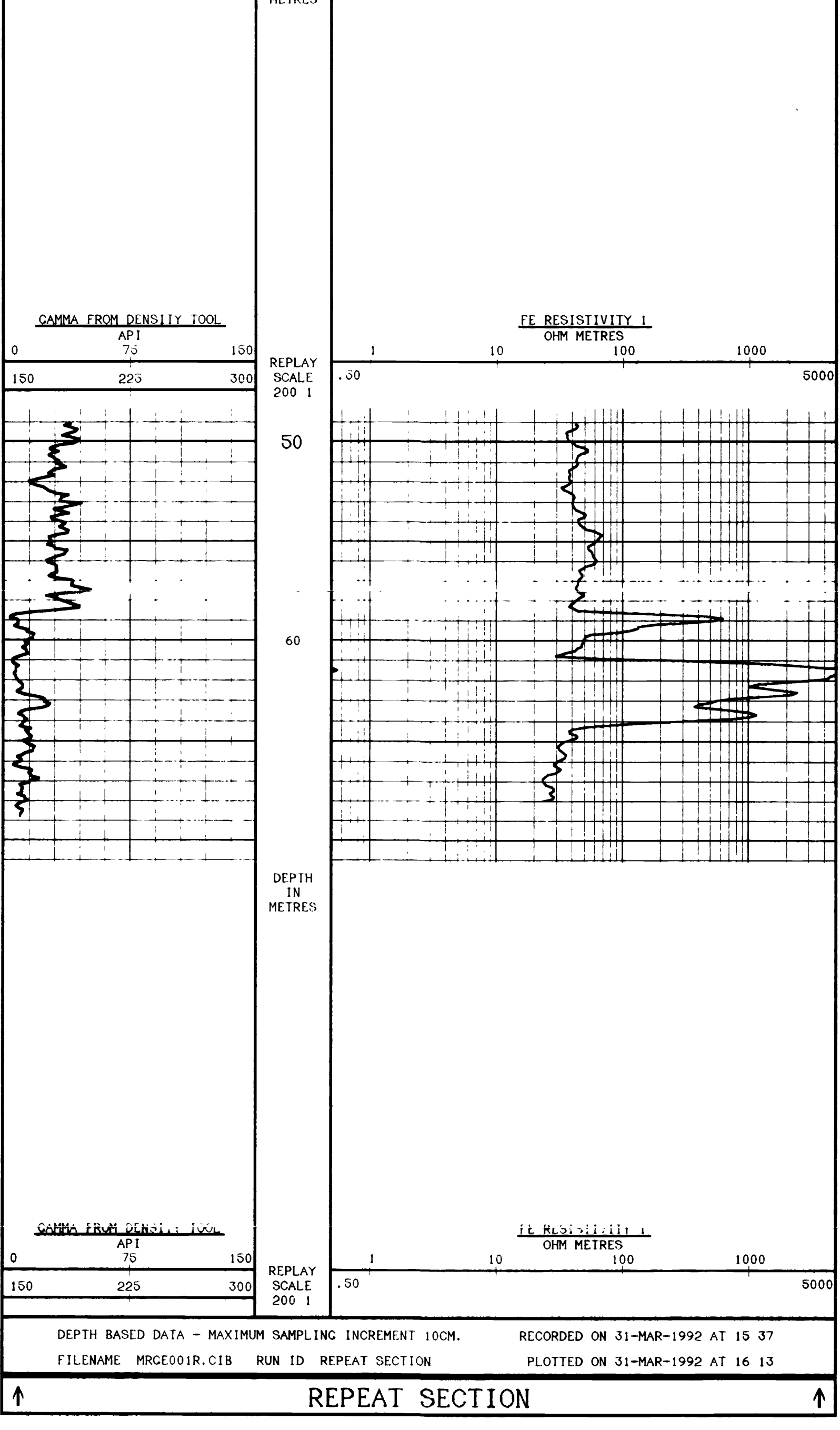
DEPTH BASED DATA - MAXIMUM SAMPLING INCREMENT 10CM. RECORDED ON 31-MAR-1992 AT 15 39  
FILENAME MRCE001M.CIB RUN ID MAIN LOC PLOTTED ON 31-MAR-1992 AT 16 13



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

**REPEAT SECTION**

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 92-002  
FIELD QUINSAM

PROVINCE/COUNTY BRITISH COLUMBIA  
COUNTRY/STATE CANADA

LOCATION CAMPBELL RIVER  
PRVNC/CO. BRITISH COLUMBIA  
FIELD QUINSAM  
WELL 92-002  
COMPANY BRINCO COAL MINING CORP.  
LOCATION CAMPBELL RIVER  
LSD SFC TYP RCL  
OTHER SERVICES  
DIPM-1-R  
DD1

PERMANENT DATUM CL  
ELEVATION 310.90 M  
LOC MEASURED FROM CL  
ABOVE PERMANENT DATUM  
DATE 31-MAR-92  
DRILLING MEASURED FROM CL  
KIP CL  
ELEVATION  
310.90 M

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"
HOLE FLUID TYPE	WATER
DENS./VISC.	1.1
PH/FLUID LOSS	N/A
SAMPLE SOURCE	N/A
RMT @ HEAS TEMP	
RMC @ HEAS TEMP	
RMC @ HEAS TEMP	
SOURCE RMT/RMC	
RMT @ BIT	
RMC @ BIT	
TIME SINCE CTRC	
MAX REC TEMP	
EQUIPMENT/BASE	V233 REIDER
RECORDED BY	JCV
WITNESSED BY	

RUN NUMBER	BOREHOLE RECORD			CASING RECORD			
	BIT	FROM	TO	SIZE	WEIGHT	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
FE				

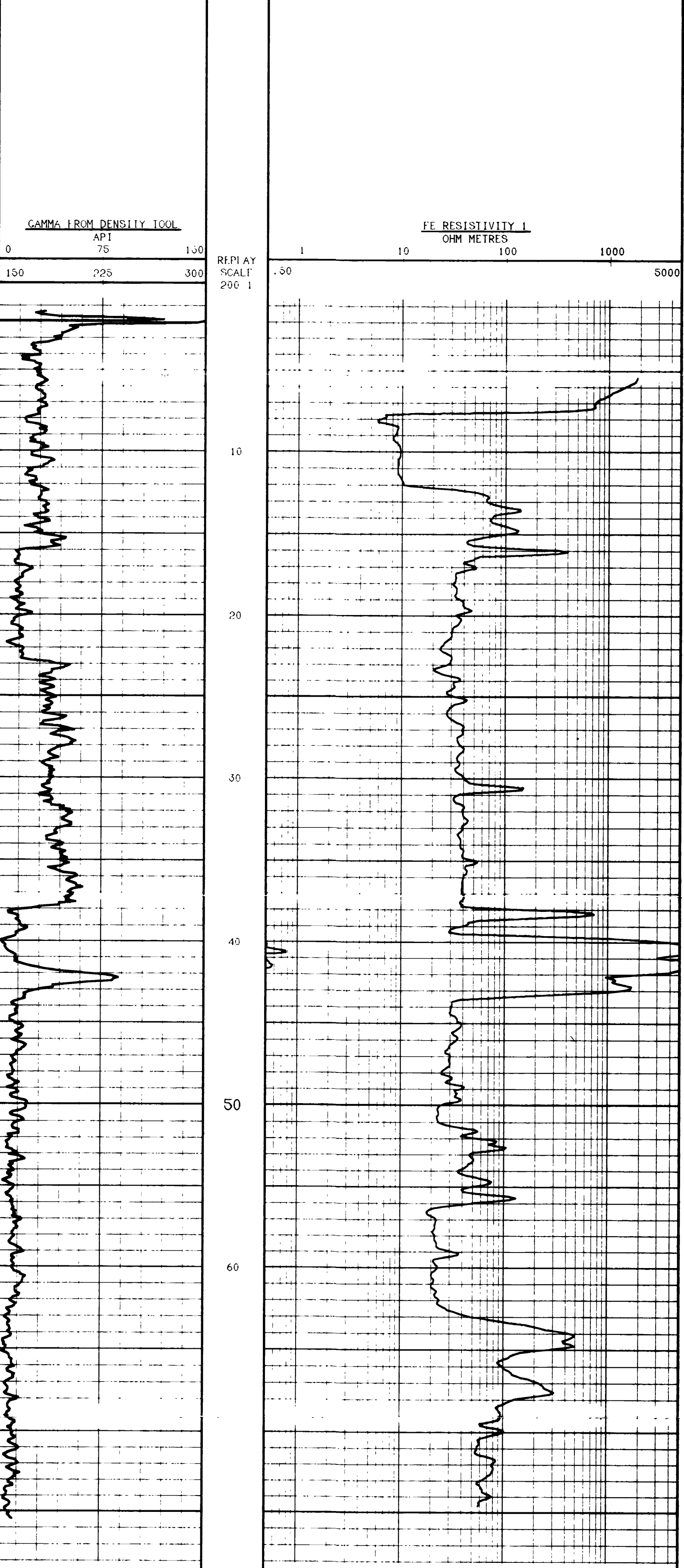
**REMARKS**  
GAMMA RAY FOCUSS ELECTRIC SLIMLINE UNIT  
N 103 394.909 E 99 765.105

SYSTEM CONFIGURATION DATA LOGGED PROCESSED PLOTTED

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**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 18:04

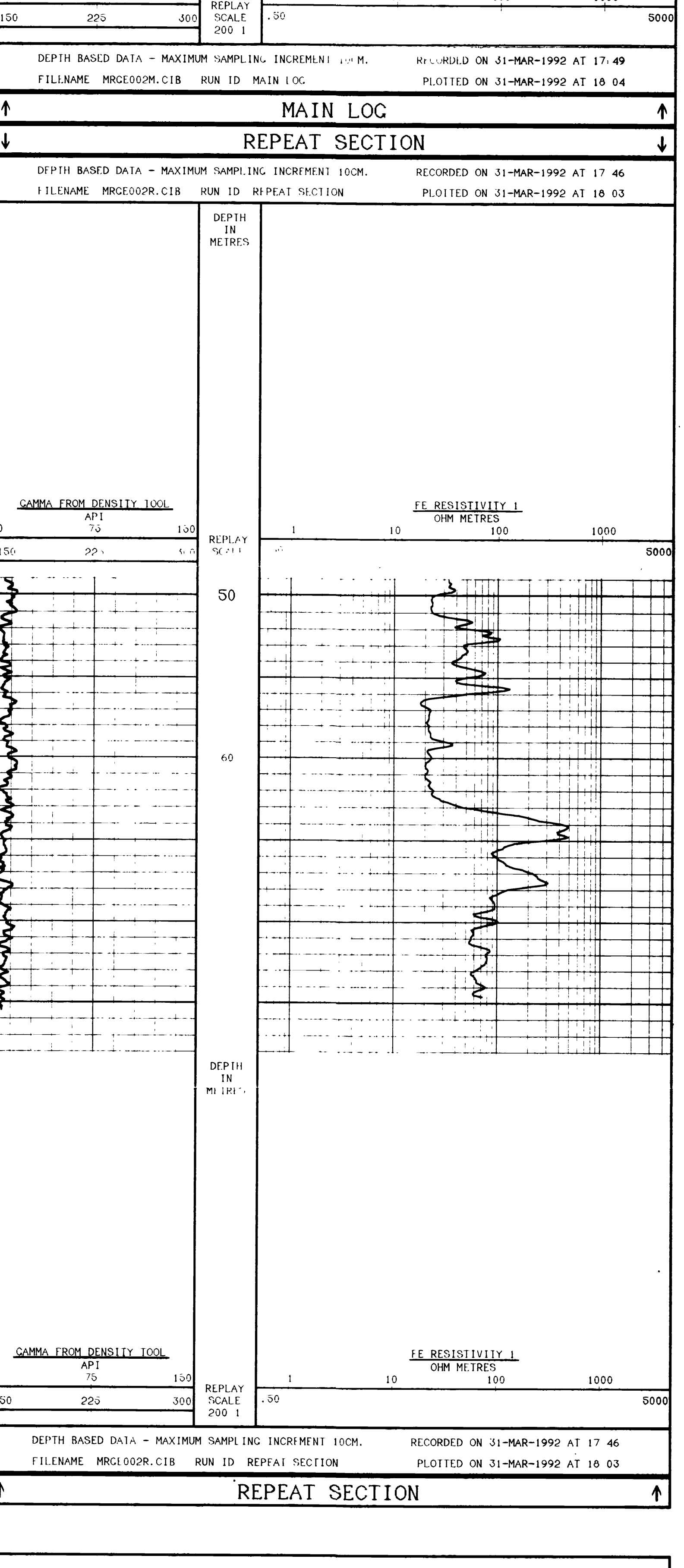


DEPTH BASED DATA - MAXIMUM SAMPLING INCREMENT 10CM. RECORDED ON 31-MAR-1992 AT 17:49  
FILENAME MRCE002M.CIB RUN ID MAIN LOG PLOTTED ON 31-MAR-1992 AT 18:04

**MAIN LOG**

**REPEAT SECTION**

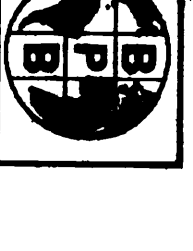
DEPTH BASED DATA - MAXIMUM SAMPLING INCREMENT 10CM. RECORDED ON 31-MAR-1992 AT 17:46  
FILENAME MRCE002R.CIB RUN ID REPEAT SECTION PLOTTED ON 31-MAR-1992 AT 18:03



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 18:03

**REPEAT SECTION**

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



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

LOCATION	CAMPBELL RIVER	OTHER SERVICES	
PRVNC./CO.	BRITISH COLUMBIA	LOCATION	CAMPBELL RIVER
FIELD	QUINSAM	WELL	92-003
COMPANY	BRINCO COAL MINING CORP.	PROVINCE/COUNTY	BRITISH COLUMBIA
		COUNTRY/STATE	CANADA
PERMANENT DATUM	CL	ELEVATION	315.88 M
LOC MEASURED FROM	CL	ABOVE PERMANENT DATUM	CL
DRILLING MEASURED FROM	CL	KB ELEVATIONS	CL
DATE	1-APR-92		
RUN NUMBER	ONE		
DEPTH-DRILLER	83.5 M		
DEPTH-COCKER	83.2 M		
FIRST READING	83.2 M		
LAST READING	0		
CASING-DRILLER	4.4 M		
CASING-COCKER	4.4 M		
BIT SIZE	5.5"		
HOLE FLUID TYPE	WATER		
DRAINAGE	1.1		
PH/LUID LOSS	N/A		
SCALE SOURCE	N/A		
RFM @ HEAD TEMP			
RFM @ HEAD TEMP			
RFM @ HEAD TEMP			
SOURCE: RMF/RMC			
RFM @ BHT			
TIME SINCE CIRC			
NO. REC TEMP			
FOOTWEAR/BASE	V253 REDEER		
RECORDED BY	JCV		
WITNESSED BY			

BOREHOLE RECORD				CASING RECORD			
RUN NUMBER	BIT	FROM	TO	SIZE	WEIGHT	FROM	TO
ONE	5.5"	36.4 M	83.5 M	7"		0	6 M
EQUIPMENT				RUN 1	RUN 2	RUN 3	RUN 4
FE							

**REMARKS**

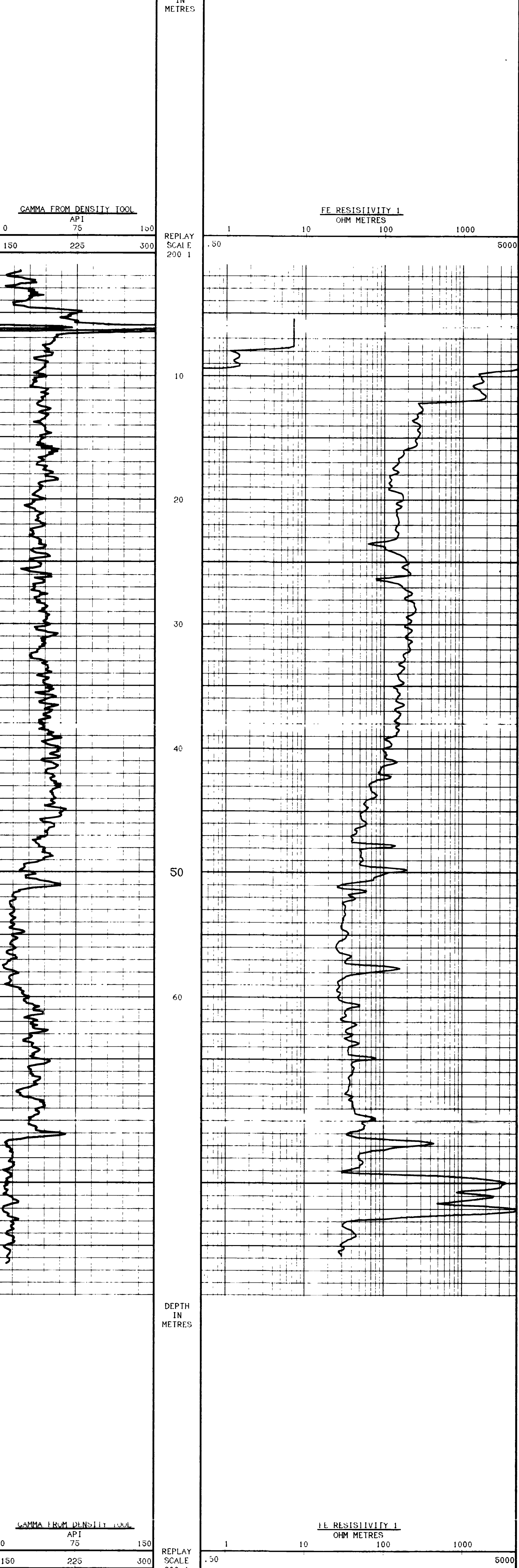
GAMMA RAY FOCUSS ELECTRIC SLIMLINE UNIT

N 103 452.167 E 100 052.441

SYSTEM CONFIGURATION DATES LOGGED PROCESSED PLOTTED

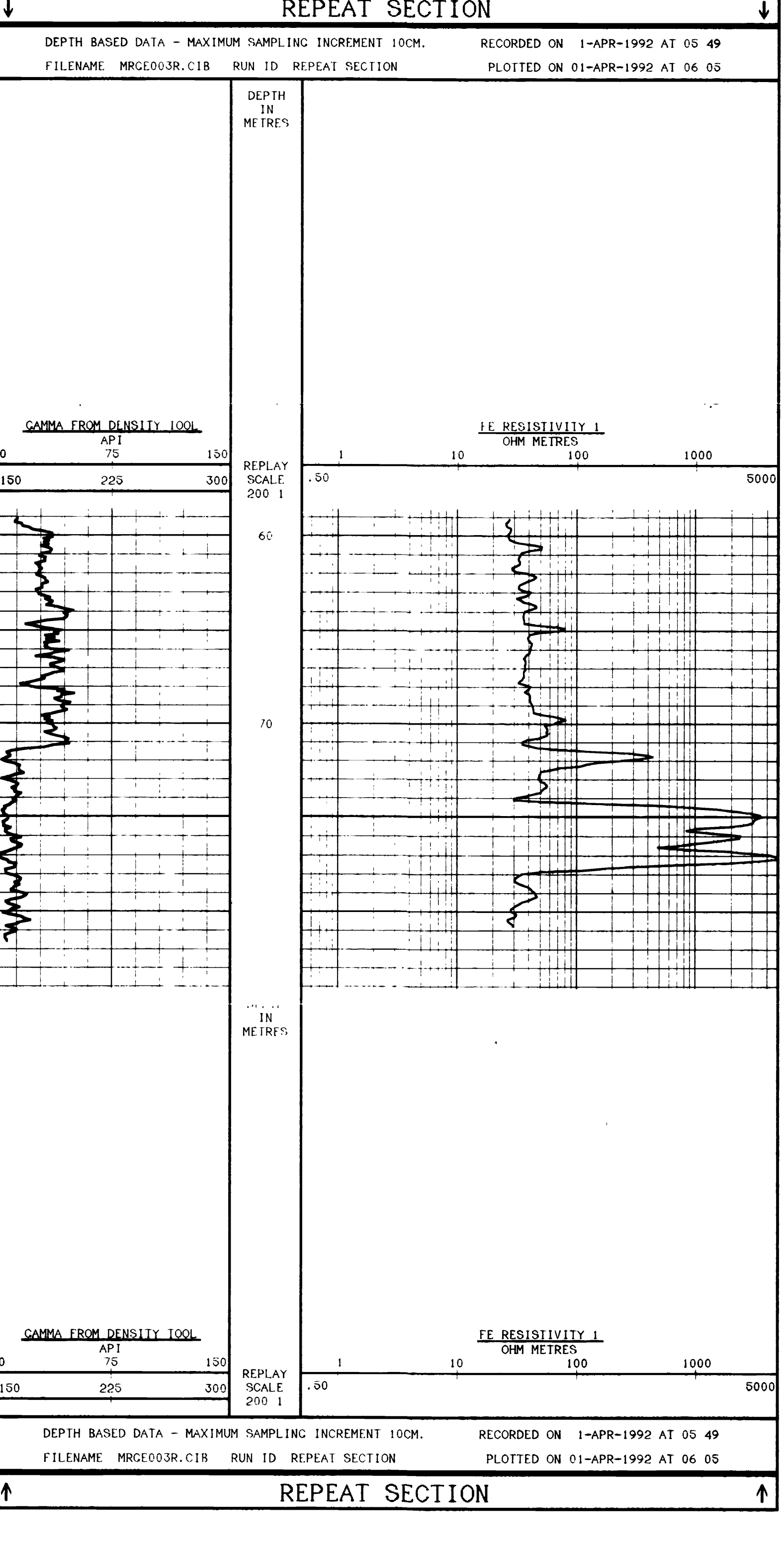
ALL INTERPRETATIONS ARE OPINIONS BASED ON INFERENCE FROM ELECTRICAL OR OTHER MEASUREMENTS AND WE CANNOT AND DO NOT GUARANTEE THE ACCURACY OR CORRECTNESS OF ANY INTERPRETATIONS. AND WE SHALL NOT BE RESPONSIBLE FOR ANY LOSSES, COSTS, DAMAGES OR EXPENSES INCURRED OR SUSTAINED BY ANYONE OR RESULTING FROM 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 05 51  
 FILENAME MRCE003M.C1B RUN ID MAIN LOG PLOTTED ON 01-APR-1992 AT 06 06

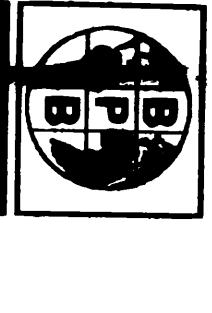
**REPEAT SECTION**



DEPTH BASED DATA - MAXIMUM SAMPLING INCREMENT 10CM. RECORDED ON 1-APR-1992 AT 05 49  
 FILENAME MRCE003R.C1B RUN ID REPEAT SECTION PLOTTED ON 01-APR-1992 AT 06 05

**REPEAT SECTION**

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	COMPANY	BRINCO COAL MINING CORP.
PRVNC/CO.	BRITISH COLUMBIA	WELL	92-004
FIELD	QUINSAM	PROVINC/COUNTY	BRITISH COLUMBIA
		COUNTRY/STATE	CANADA
LOCATION	CAMPBELL RIVER	OTHER SERVICES	
LSO		DIPMETER	DD1
SFC			
FVP			
RCO			
ELEVATION	311.66 M	KR	
ABOVE PERMANENT DATUM		DR	
		CI	311.66 M
DISPATCH DATE	CI		
LOG MEASURED FROM	CI		
ORILLING MEASURED FROM	CI		
DATE	1-APR-92		
RUN NUMBER	ONE		
DITH-ORILLER	64.0 M		
DITH-LOCKER	61.6 M		
FLIGHT READING	0		
CASING-DRILLER	3.0 M		
CASING-LOCKER	4.0 M		
BIT SIZE	3.5		
NOF FLUID TYPE	WATER		
DIMS. VISC.	1.1		
FLUID LOSS	N/A		
TEMP. SOURCE	N/A		
TEMP. MEAS. TEMP.			
TEMP. FLASS TEMP.			
SOURCE RHT/PMC			
TIME SILE SLRS			
MAX RES. TEMP.			
EQUIPMENT USE	2251 READER		
RECORDED BY	JCV		
ATTENDED BY			

RUN NUMBER	BORHOLE RECORD			CASING RECORD			
	BIT	FROM	TO	SIZE	VFICHT	FROM	TO
ONE	5.5"	35.5 M	64.0 M	7"		0	3.0 M
EQUIPMENT		RUN 1	RUN 2	RUN 3	RUN 4		
FE							

**REMARKS**

GAMMA RAY FOCUSS ELECTRIC SLIMLINE UNIT

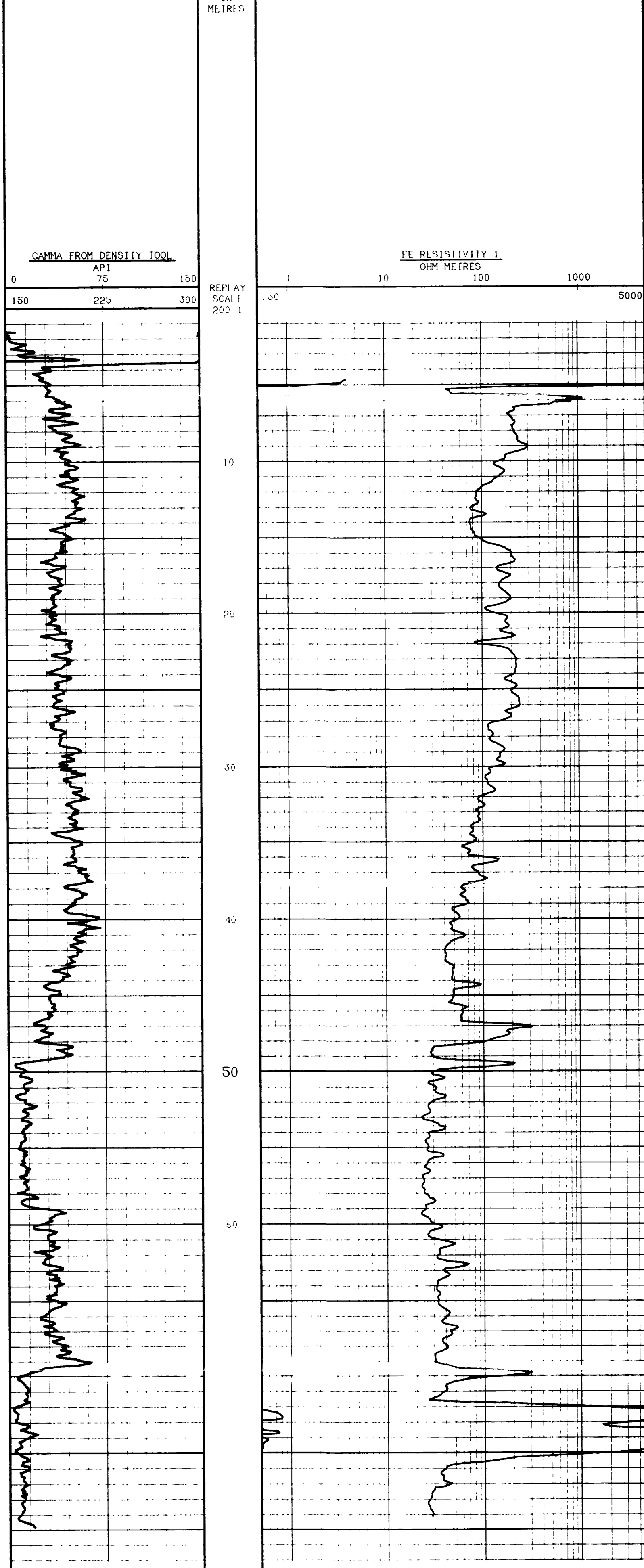
N 103 355.991 E 109 002.72

SYSTEM CONFIGURATION DATES LOGGED PROCESSED PLOTTED

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**MAIN LOG**

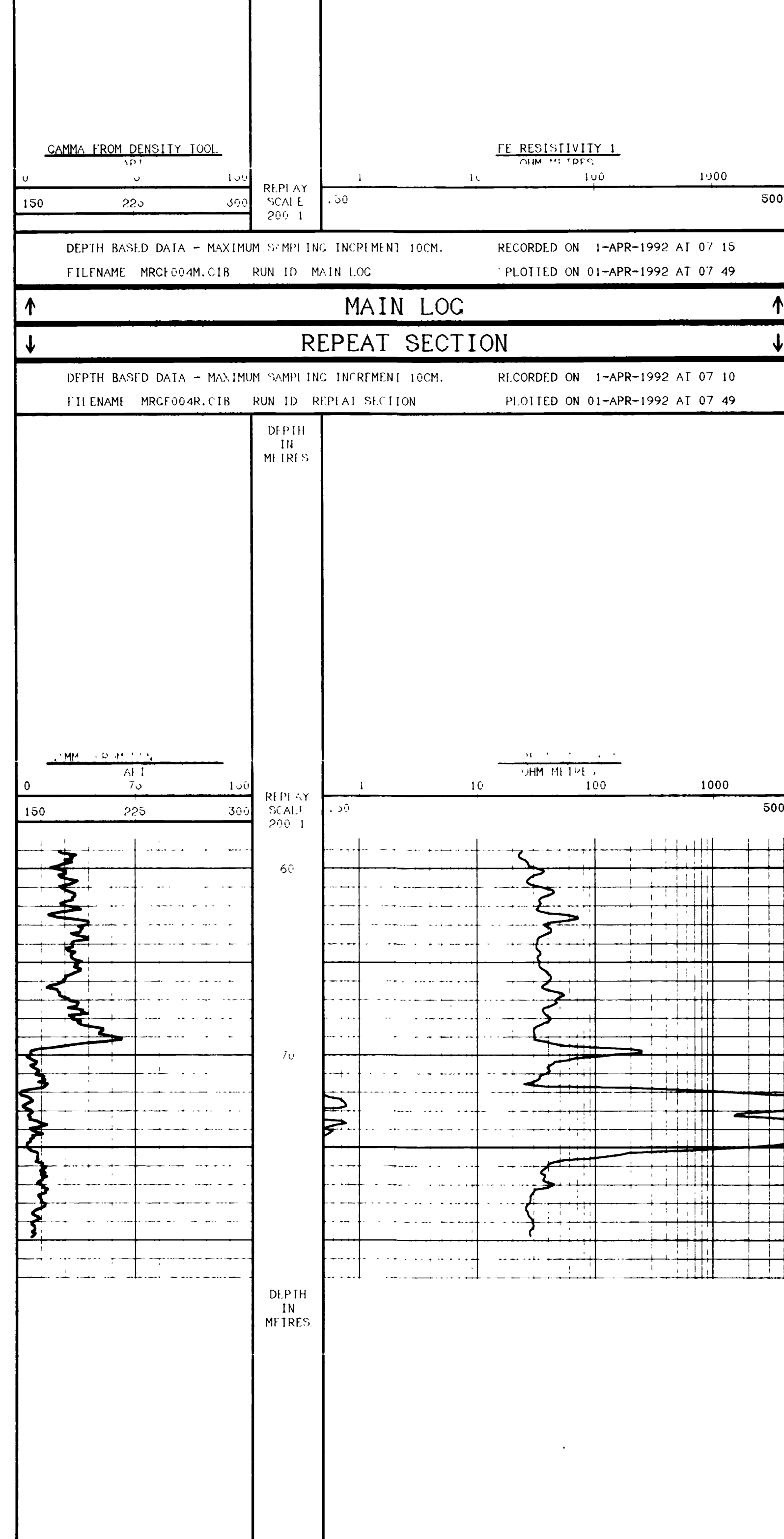
DEPTH BASED DATA - MAXIMUM SAMPLING INCREMENT 10CM. RECORDED ON 1-APR-1992 AT 07 15  
 FILENAME MRCF004M.CIB RUN ID MAIN LOG PLOTTED ON 01-APR-1992 AT 07 49



DEPTH BASED DATA - MAXIMUM SAMPLING INCREMENT 10CM. RECORDED ON 1-APR-1992 AT 07 15  
 FILENAME MRCF004M.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 MRCF004R.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 MRCF004R.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**

COMPANY BRINCO COAL MINING CORP.  
WELL 92-005  
FIELD QUINSAM

PROVINCE/COUNTRY BRITISH COLUMBIA  
COUNTRY/STATE CANADA

LOCATION CAMPBELL RIVER  
PRVNC/CO. BRITISH COLUMBIA  
FIELD QUINSAM  
WELL 92-005  
COMPANY BRINCO COAL MINING CORP.

PERMANENT DATUM CI  
LOC. MEASUREMENT FROM CI  
DRILLING MEASUREMENT FROM CI

ELEVATION 311.90 M  
ABOVE PERMANENT DATUM  
CI 311.11 M

OTHER SERVICES  
DIPPER IFR  
DDI

DATE 1-APR-92  
RUN NUMBER 001

DEPTH-DRILLER 70.4 M  
DEPTH-COCKER 77.2 M

FIRST READING 0  
LAST READING 0

CASING-DRILLER 5.7 M  
CASING-COCKER 5.7 M

BIT SIZE 5.75  
HOLE FLUID TYPE WATER  
DENS. V/ISC. 1.1  
PH/FLUID LOSS N/A  
SAMPLE SOURCE N/A  
RM @ MEAS TEMP N/A  
RM @ MEAS TEMP N/A  
SOURCE RHT/RMC  
RM @ BIT  
LINE SINE CIRC  
MAX REC TEMP  
EQUIPMENT/BASE ZSSS R DILR  
RECORDED BY JCV  
WITNESSED BY

RUN NUMBER	BORHOLE RECORD			CASING RECORD			
	BIT	FROM	TO	SIZE	VEICH	FROM	TO
001	5.7	55.4 M	6.4 M	7		0	5.7 M

EQUIPMENT	RUN 1	RUN 2	RUN 3	RUN 4
FE				

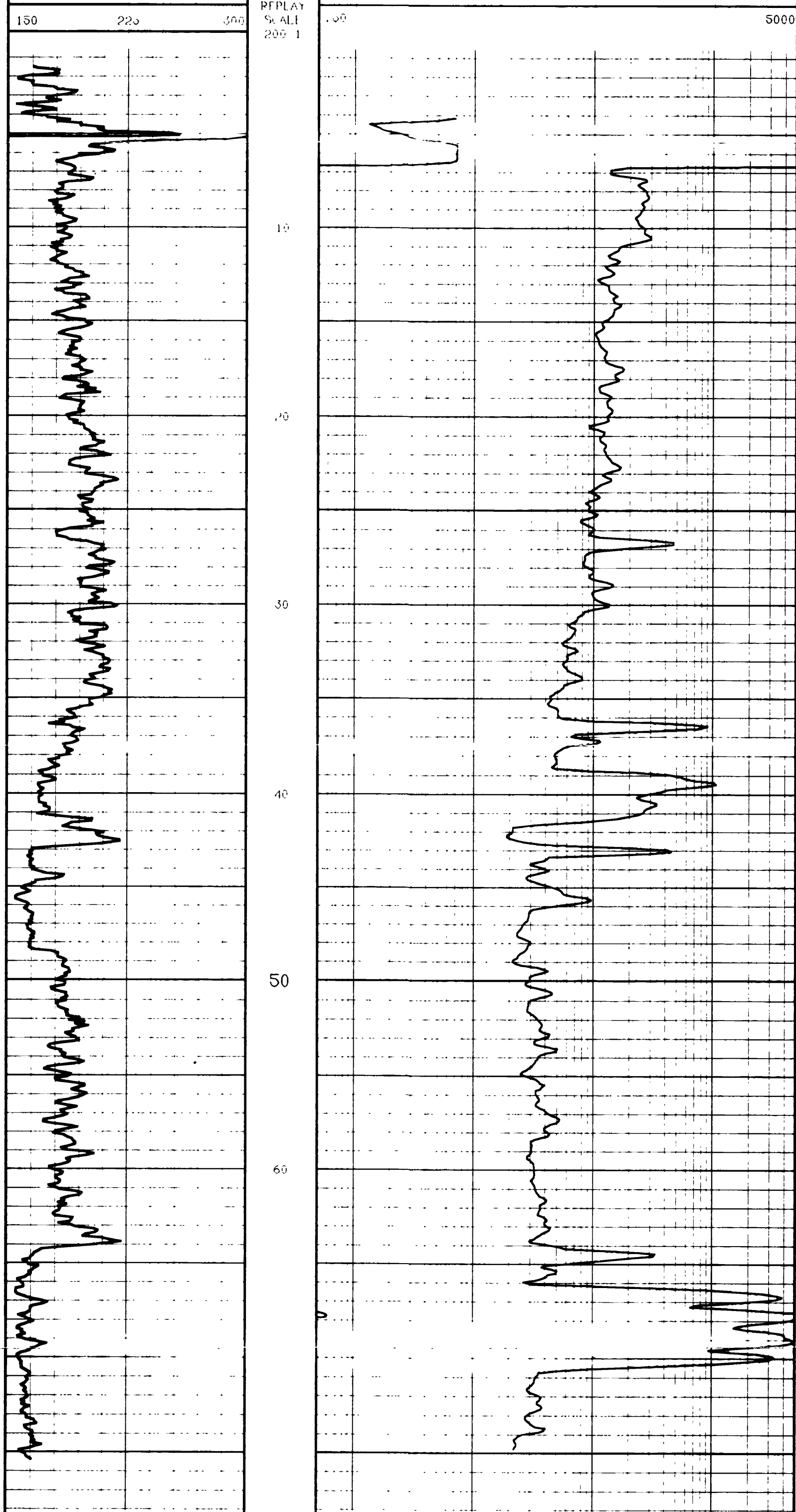
**REMARKS**  
GAMMA RAY FOCUSS ELECTRIC SLIMLINE UNIT  
H 163 272.52 I 99 939.33

SYSTEM CONFIGURATION DATA LOGGED PROCESSED PLOTTED

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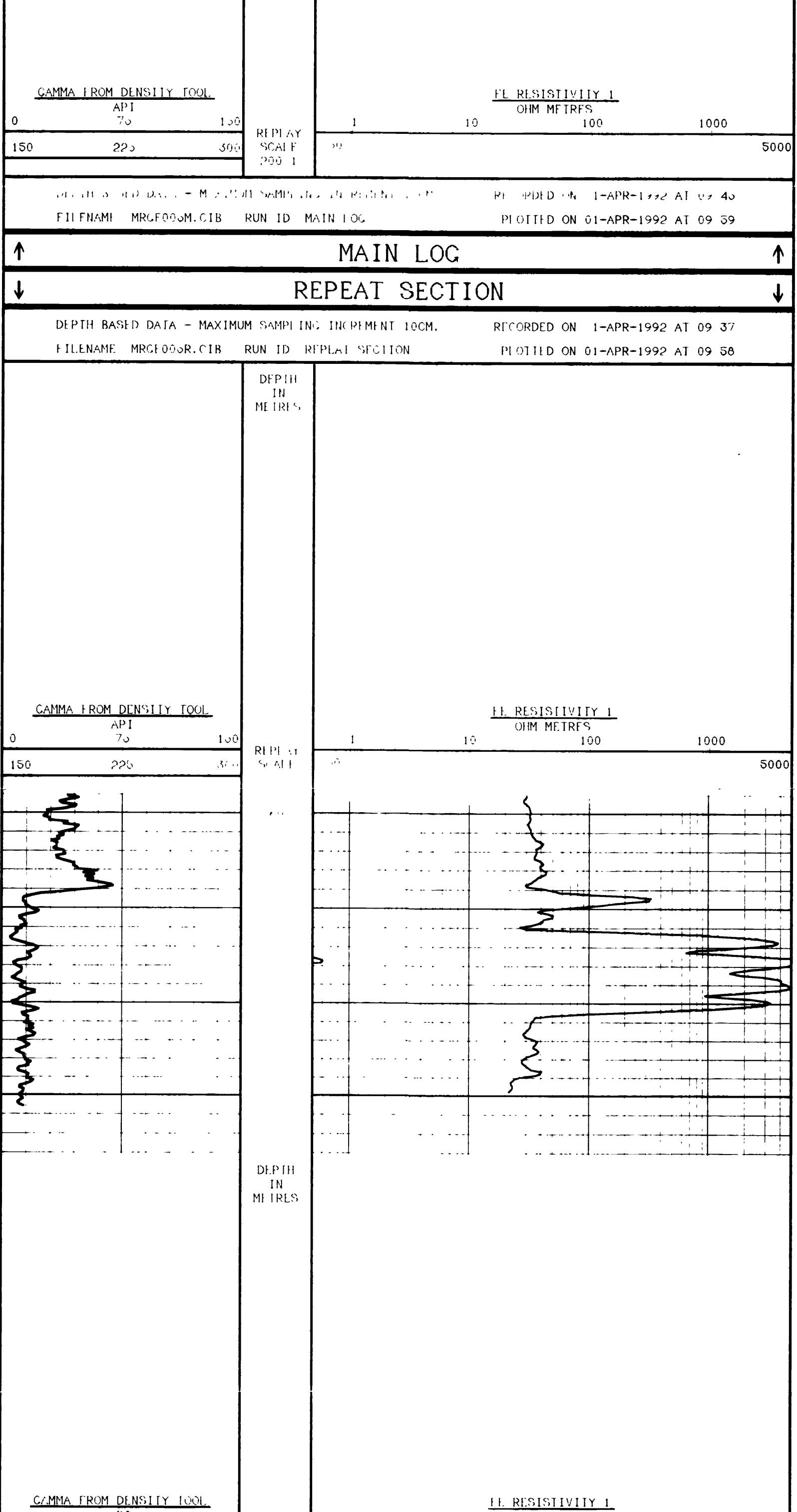
**MAIN LOG**

DEPTH BASED DATA - MAXIMUM SAMPLE INC. INCREMENT 10CM. RECORDED ON 1-APR-1992 AT 09 45  
FILENAME MRG100R.C1B RUN ID MAIN LOG PLOTTED ON 01-APR-1992 AT 09 59



**REPEAT SECTION**

DEPTH BASED DATA - MAXIMUM SAMPLE INC. INCREMENT 10CM. RECORDED ON 1-APR-1992 AT 09 37  
FILENAME MRG100R.C1B RUN ID REPEAT SECTION PLOTTED ON 01-APR-1992 AT 09 58

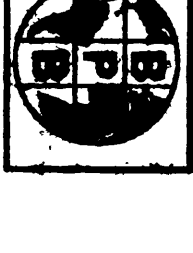


**REPEAT SECTION**

DEPTH BASED DATA - MAXIMUM SAMPLE INC. INCREMENT 10CM. RECORDED ON 1-APR-1992 AT 09 37  
FILENAME MRG100R.C1B RUN ID REPEAT SECTION PLOTTED ON 01-APR-1992 AT 09 58

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





**GAMMA RAY**  
**FOCUSS ELECTRIC**  
**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
PERMANENT DATUM	CL
LOC MEASURED FROM	CL
DRILLING MEASURED FROM	CL
DATE	1-APR-92
RUN NUMBER	ONE
DEPTH-DRILLER	79.9 M
DEPTH-LOCKER	76.6 M
FIRST READING	76.6 M
LAST READING	0
CASING-DRILLER	6.0 M
CASING-LOCKER	2.3 M
BIT SIZE	5.5"
HOLE FLUID TYPE	WATER
DENS./VISC.	1.1
PH/FLUID LOSS	N/A
SAMPLE SOURCE	N/A
RH @ MEAS TEMP	
RH @ MEAS TEMP	
SOURCE RH/RMC	
RH @ BIT	
TIME SINCE CIRC	
MAX REC TEMP	
EQUIPMENT/BASE	V233 READER
RECORDED BY	JCV
WITNESSED BY	

RUN NUMBER	BOREHOLE RECORD		CASING RECORD	
	BIT	FROM	TO	SIZE
ONE	5.5"	2.9 M	79.9 M	7"

EQUIPMENT	RUN 1	RUN 2	RUN 3	RUN 4
FE				

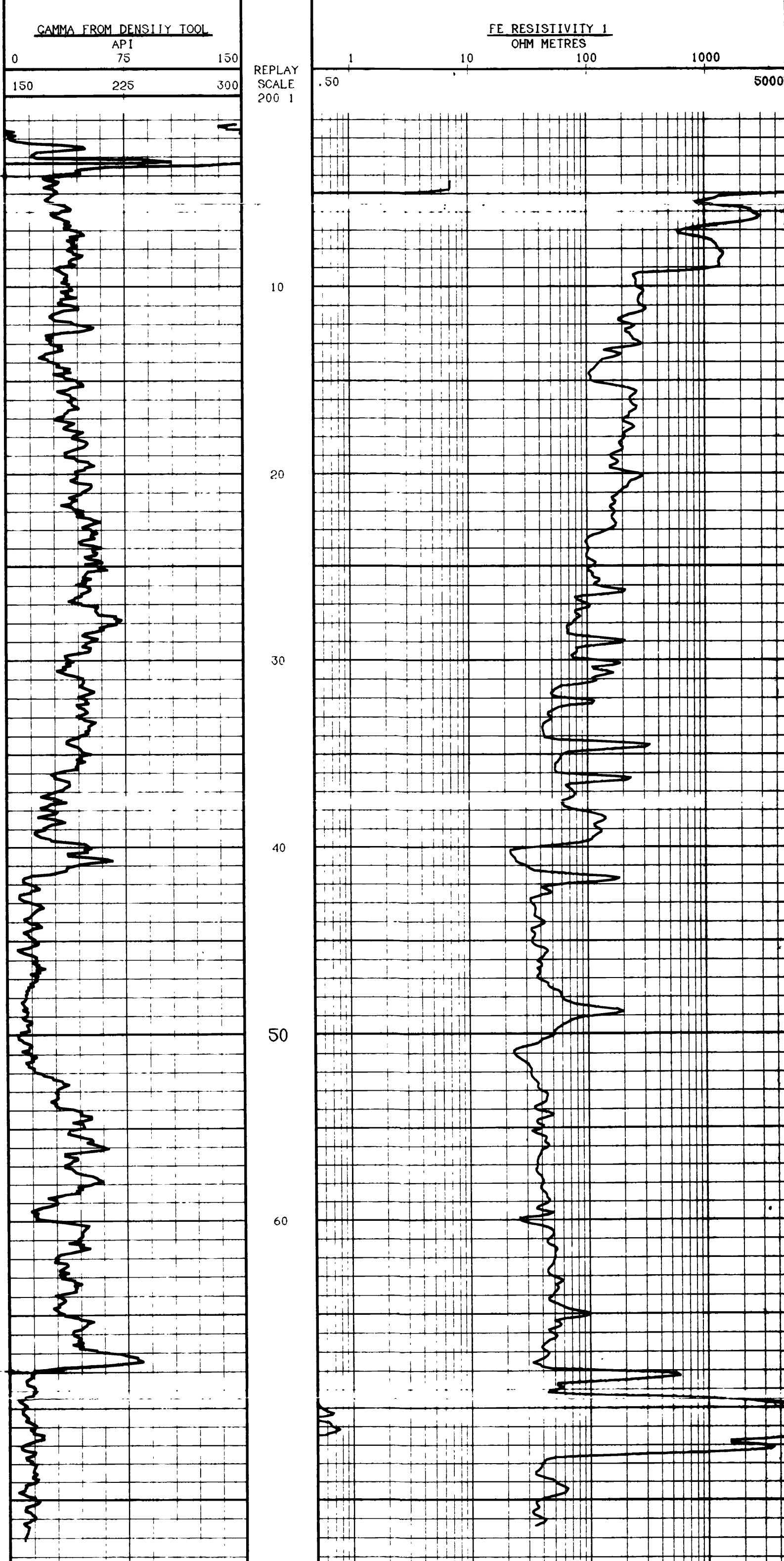
**REMARKS**  
 GAMMA RAY FOCUSS ELECTRIC SLIMLINE UNIT  
 N 102 999.479 E 99 866.12

SYSTEM CONFIGURATION DATES LOGGED PROCESSED PLOTTED

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**MAIN LOG**

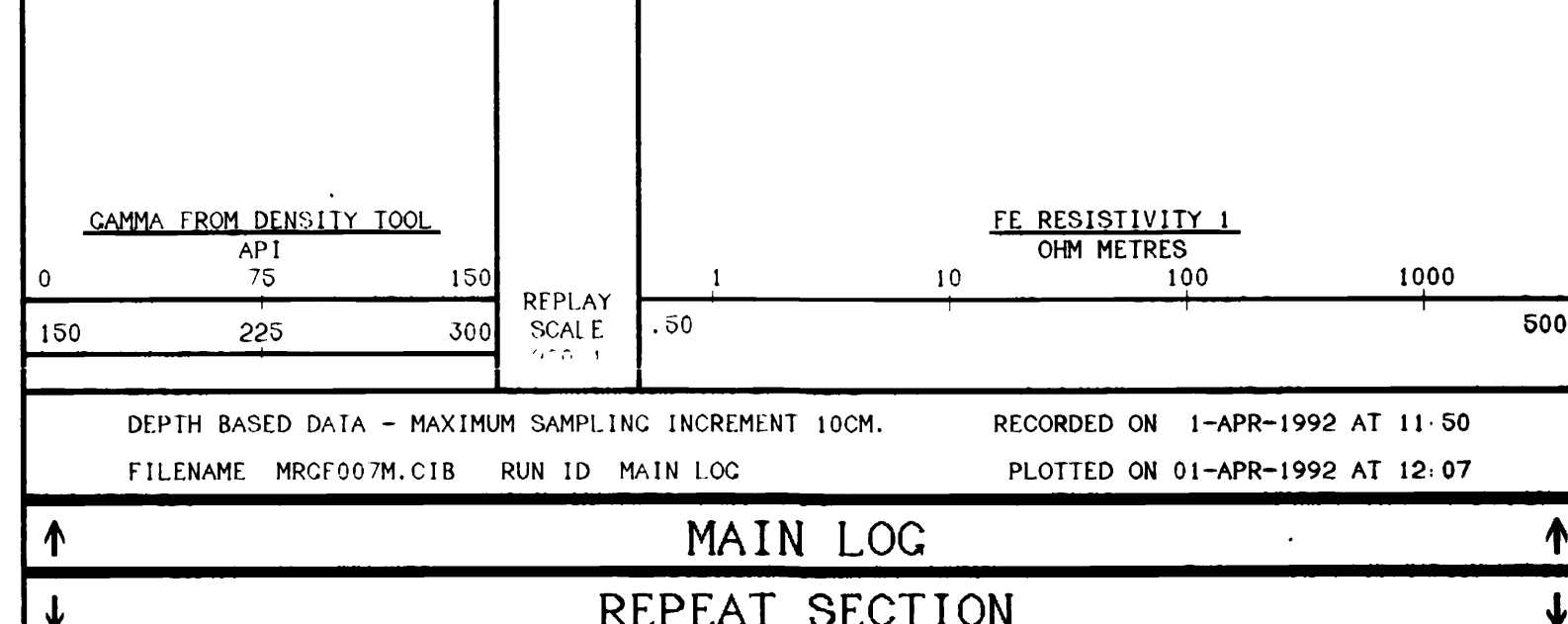
DEPTH BASED DATA - MAXIMUM SAMPLING INCREMENT 10CM. RECORDED ON 1-APR-1992 AT 11:50  
 FILENAME MRCE007M.CIB RUN ID MAIN LOG PLOTTED ON 01-APR-1992 AT 12:07



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

**MAIN LOG REPEAT SECTION**

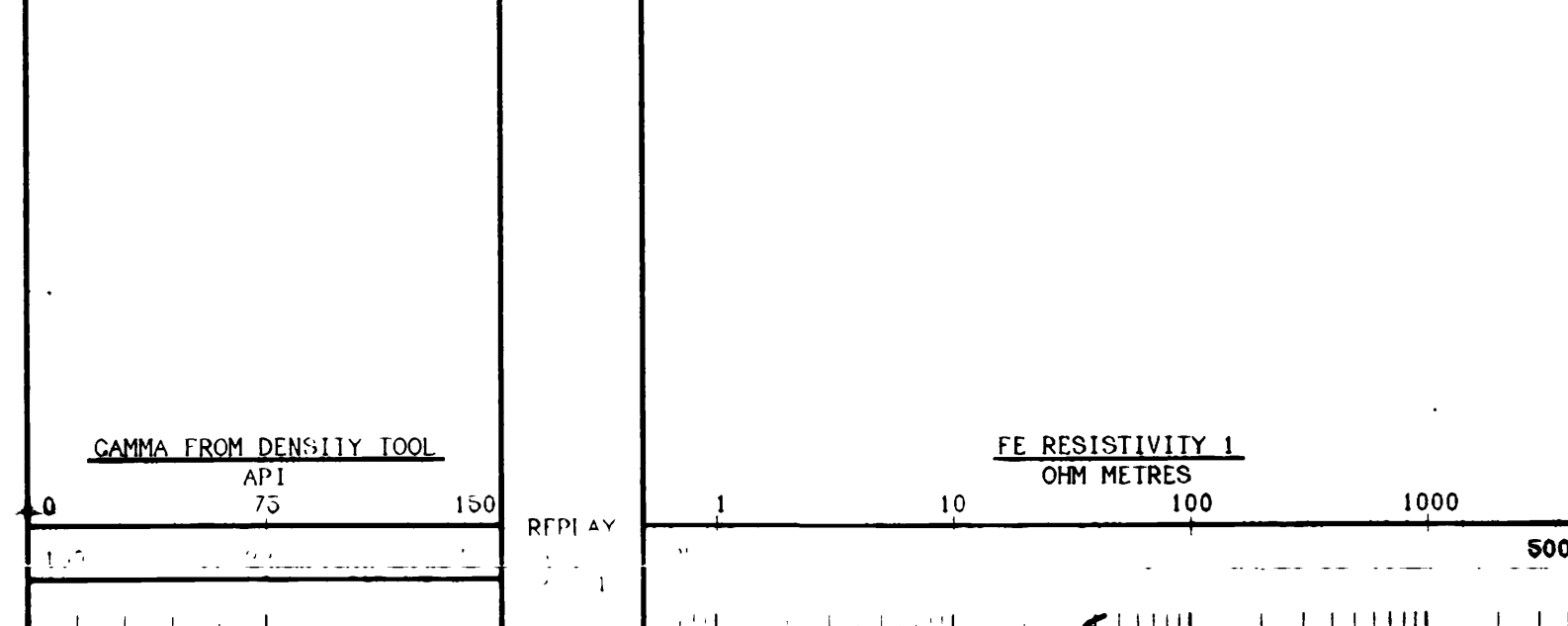
DEPTH BASED DATA - MAXIMUM SAMPLING INCREMENT 10CM. RECORDED ON 1-APR-1992 AT 11:43  
 FILENAME MRCE007R.CIB RUN ID REPEAT SECTION PLOTTED ON 01-APR-1992 AT 12:06



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**

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**

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**

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**

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**

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**

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**

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**

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**

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**

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**

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**

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**

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**

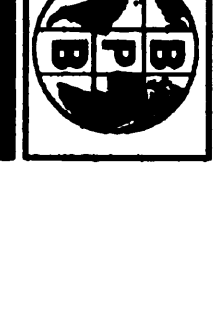
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 FILENAME MRCE007R.CIB RUN ID REPEAT SECTION PLOTTED ON 01-APR-1992 AT 12:06

**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

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





**CAMMA RAY**  
**FOCUSS ELECTRIC**  
**SLIMLINE UNIT**

LOCATION	CAMPBELL RIVER	PRVNC/CO.	BRITISH COLUMBIA
FIELD	QUINSAM	WELL	92-009
COMPANY	BRINCO COAL MINING CORP.	PROVINCE/COUNTY	BRITISH COLUMBIA
COUNTRY/STATE	CANADA	OTHER SERVICES	DIPMETER
PERMANENT DATUM	CL	ELEVATION 371.38 M	KB OF CL
LOC MEASURED FROM	CL	ABOVE PERMANENT DATUM	CL
DRILLING MEASURED FROM	CL	ELEVATION 371.38 M	KB OF CL
DATE	1-APR-92		
RUN NUMBER	ONE		
DEPTH-DRILLER	64.9 M		
DEPTH-LOGGER	64.3 M		
FIRST READING	64.3 M		
LAST READING	0		
CASING-DRILLER	2.5 M		
CASING-LOGGER	2.5 M		
BIT SIZE	5.5"		
HOLE FLUID TYPE	WATER		
DENS. LOG	1.1		
RETIQUID LOSS	N/A		
SAMPLE SQUIRT	N/A		
RNF @ HEAD TEMP			
RNF @ HEAD TEMP			
SOURCE RNF/RNC			
RNF @ SHI			
TIME SINCE CIRC			
MAX REC TEMP			
EQUIPMENT/BASE	V253	REORDER	
RECORDED BY	JCV		
WITNESSED BY			

BOTHOLE RECORD				CASING RECORD			
RUN NUMBER	BIT	FROM	TO	SIZE	WEIGHT	FROM	TO
ONE	5.5"	54.6 M	64.9 M	7"		0	2.5 M
EQUIPMENT				RUN 1	RUN 2	RUN 3	RUN 4
FE							

**REMARKS**

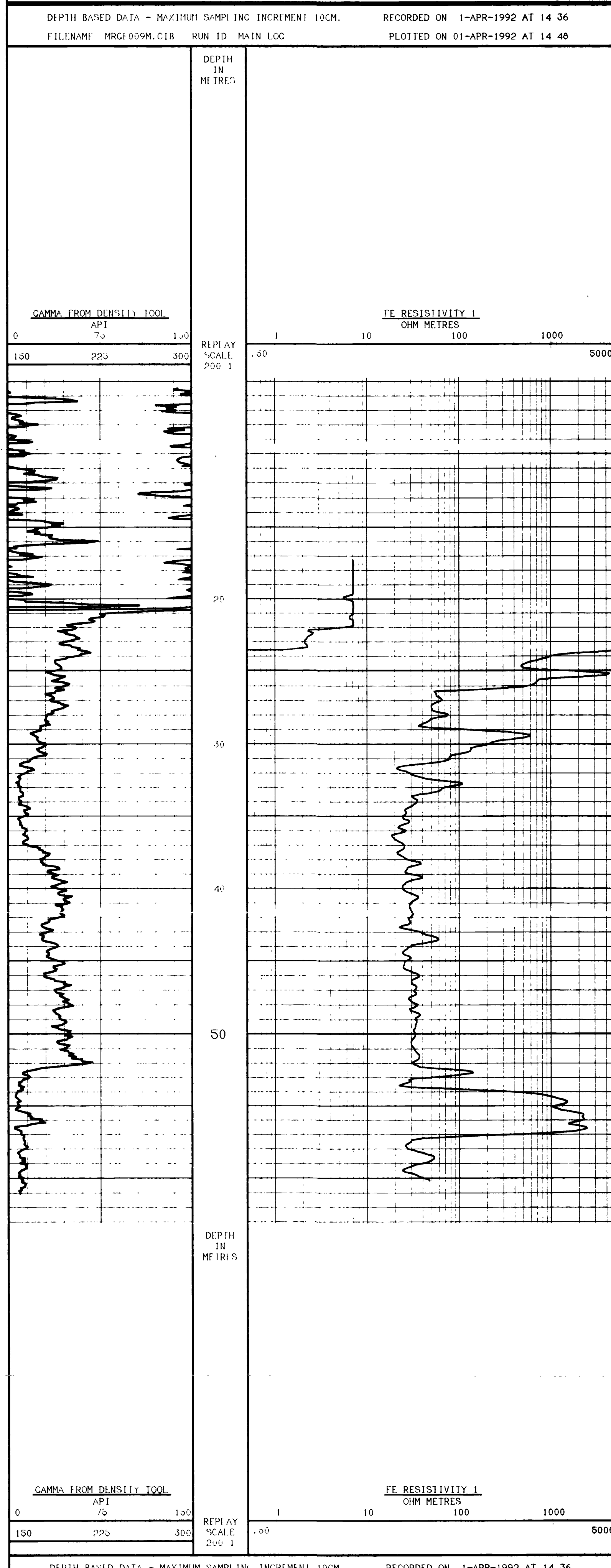
CAMMA RAY FOCUS ELECTRIC SLIMLINE UNIT

N 103.195.29 1 99 96.674

SYSTEM CONFIGURATION D-IFS LOGGED PROCESSED PLOTTED

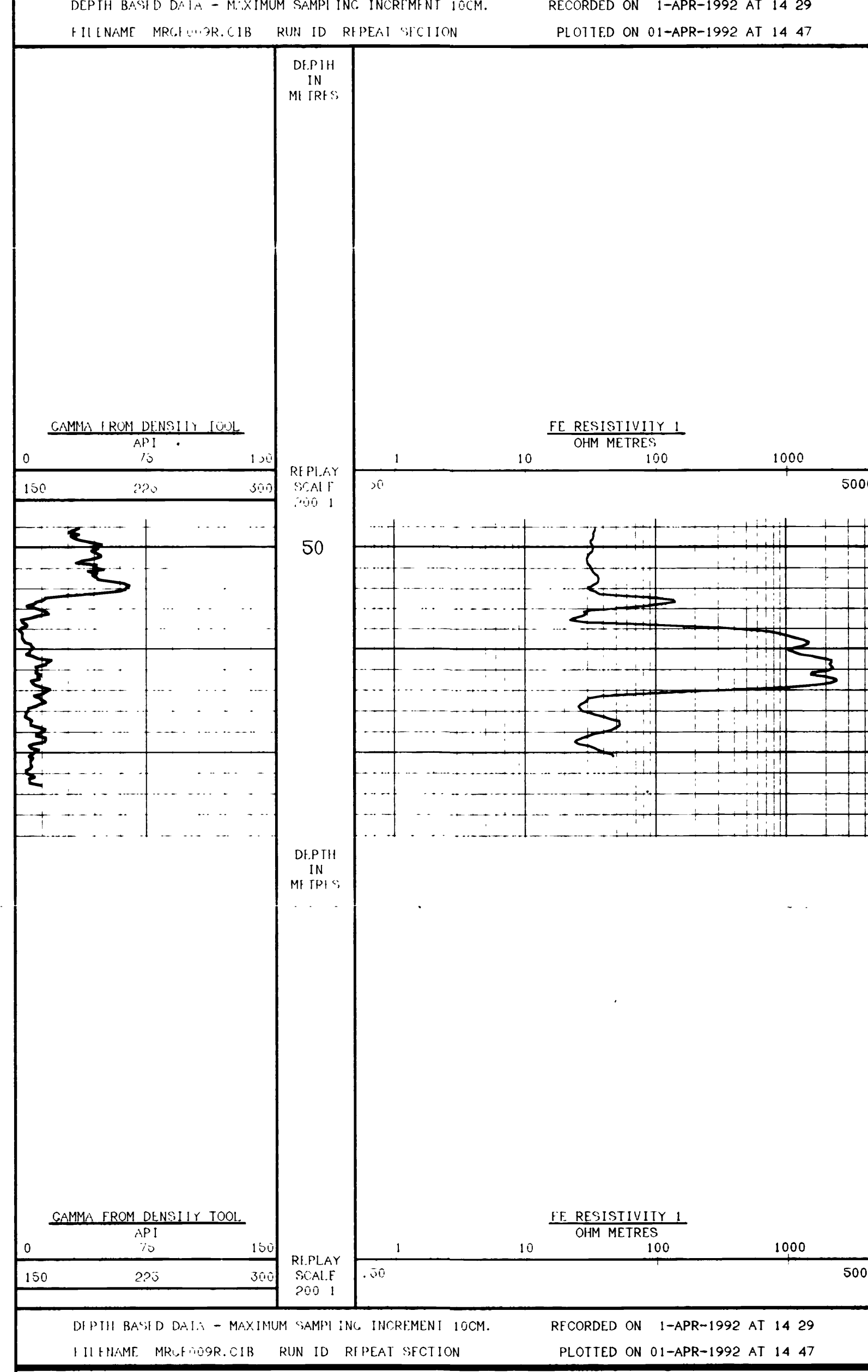
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**MAIN LOG**



**MAIN LOG**

**REPEAT SECTION**



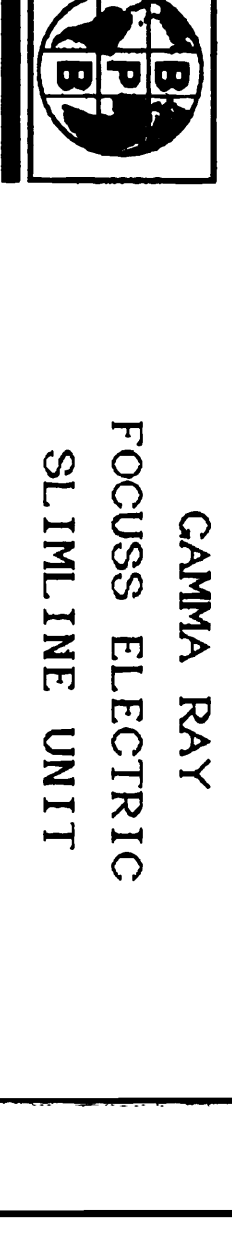
**REPEAT SECTION**

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









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

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

LOCATION CAMPBELL RIVER  
 PRVNC/CO. BRITISH COLUMBIA  
 FIELD QUINSAM  
 WELL 92-012  
 COMPANY BRINCO COAL MINING CORP.

LOCATION CAMPBELL RIVER  
 LSD SEC TWP RGE  
 OTHER SERVICES  
 DIRM:1HR  
 DDI

PERMANENT DATUM CL  
 LOC MEASURED FROM CL  
 DRILLING MEASURED FROM CL  
 DATE 1-APR-92  
 RUN NUMBER ONE  
 DEPTH-DRILLER 64.7 M  
 DEPTH-LOGGER 63.7 M  
 FIRST READING 0  
 LAST READING 0  
 CASTING-DRILLER S.S.M  
 CASTING-LOGGER S.S.M  
 BIT SIZE 5.5"  
 HOLE FLUID TYPE WATER  
 DENS./VISC. 1.1  
 PUTE/LUID LOSS N/A  
 SCAM/F SOURCE N/A  
 RH @ MEAS TEMP  
 RH @ MEAS TEMP  
 RH @ MEAS TEMP  
 SOURCE RH/IRAC  
 RH @ BIT  
 TIME SINCE CIRC  
 MAX REC TEMP  
 EQUIPMENT/BASIS  
 RECORDED BY V223 REEFER  
 WITNESSED BY JCV

BORHOLE RECORD				CASING RECORD			
RUN NUMBER	BIT	FROM	TO	SIZE	WEIGHT	FROM	TO
ONL	5.5"	7.9 M	64.7 M	7"		0	5.5 M

EQUIPMENT	RUN 1	RUN 2	RUN 3	RUN 4
FE				

**REMARKS**

GAMMA RAY FOCUS ELECTRIC SLIMLINE UNIT

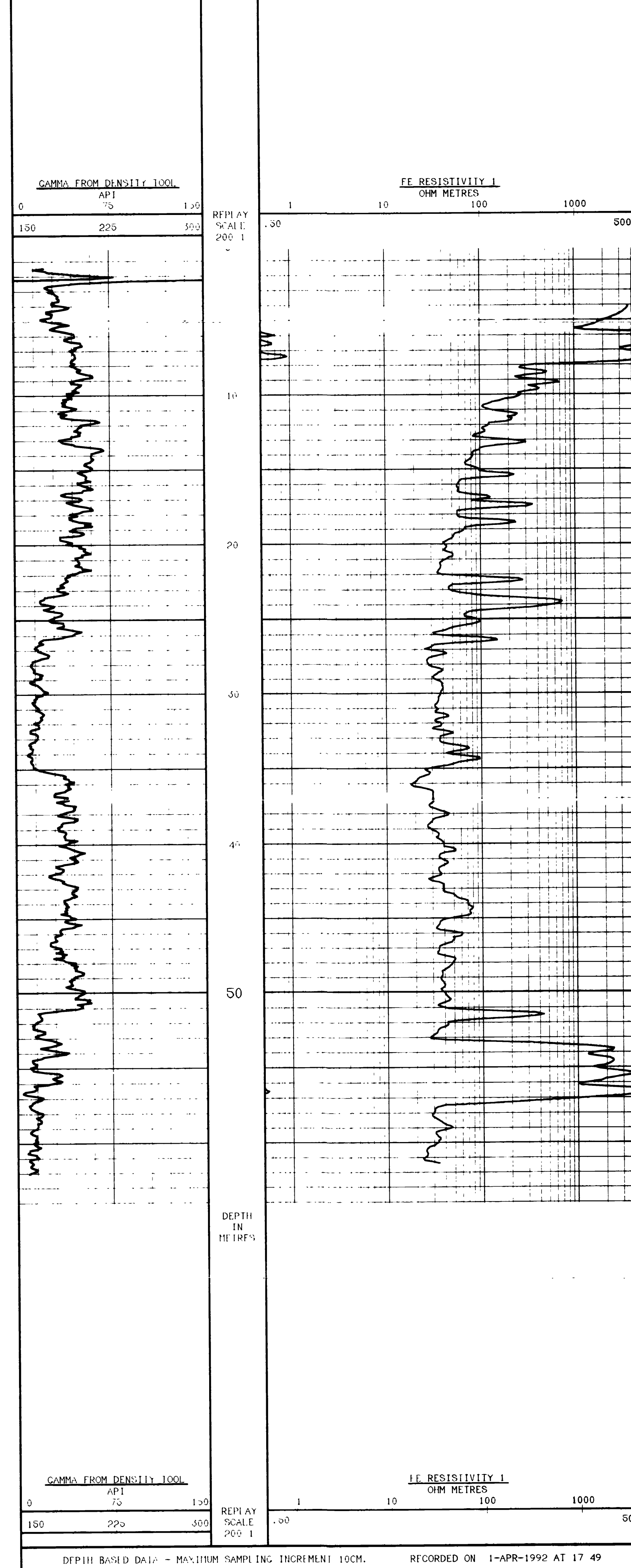
N 103 431.04 E 99 000.67

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 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**

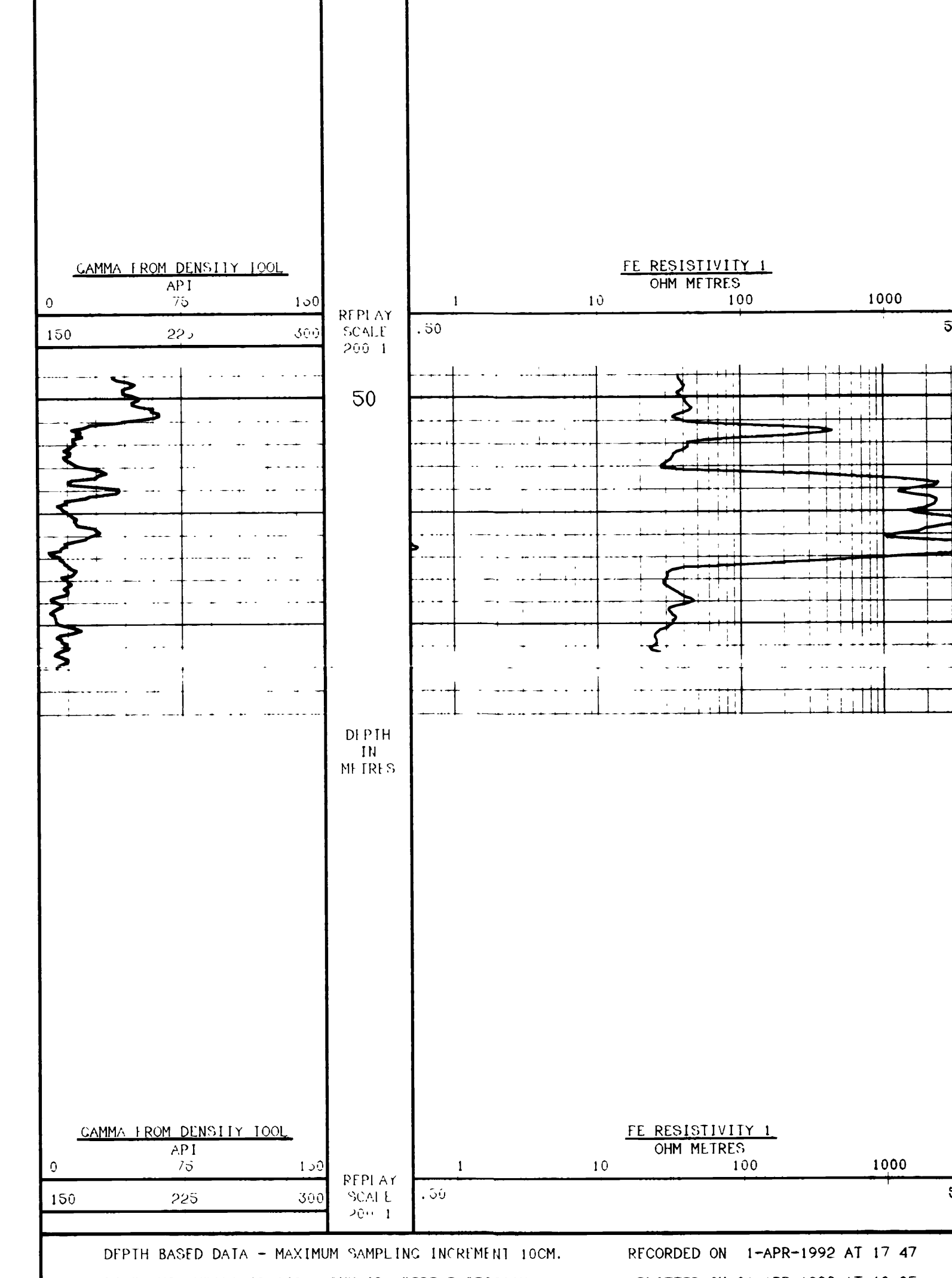
DEPTH BASED DATA - MAXIMUM SAMPLING INCREMENT 10CM. RECORDED ON 1-APR-1992 AT 17:49  
 FILENAME MRCE012M.C1B RUN ID MAIN LOG PLOTTED ON 01-APR-1992 AT 18:06



DEPTH BASED DATA - MAXIMUM SAMPLING INCREMENT 10CM. RECORDED ON 1-APR-1992 AT 17:49  
 FILENAME MRCE012M.C1B RUN ID MAIN LOG PLOTTED ON 01-APR-1992 AT 18:06

**REPEAT SECTION**

DEPTH BASED DATA - MAXIMUM SAMPLING INCREMENT 10CM. RECORDED ON 1-APR-1992 AT 17:47  
 FILENAME MRCE012R.C1B RUN ID REPEAT SECTION PLOTTED ON 01-APR-1992 AT 18:05

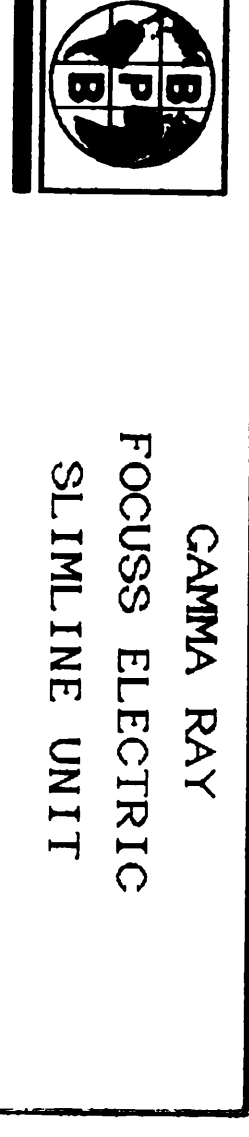


DEPTH BASED DATA - MAXIMUM SAMPLING INCREMENT 10CM. RECORDED ON 1-APR-1992 AT 17:47  
 FILENAME MRCE012R.C1B RUN ID REPEAT SECTION PLOTTED ON 01-APR-1992 AT 18:05

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







LOCATION CAMPBELL RIVER  
 PRVNC/CO. BRITISH COLUMBIA  
 FIELD QUINSAM  
 VELL 92-017  
 COMPANY BRINCO COAL MINING CORP.  
 WELL 92-017  
 FIELD QUINSAM  
 PROVINCE/COUNTY BRITISH COLUMBIA  
 COUNTRY/STATE CANADA

LOCATION CAMPBELL RIVER  
 OTHER SERVICES  
 DIRMETER  
 DDI

PERMANENT DATUM CL  
 LOC MEASURED FROM CL  
 DRILLING MEASURED FROM CL  
 DATE 25-APR-92  
 RUN NUMBER 001  
 DEPTH-BELLER 91.2 M  
 DEPTH-COCHER 87.7 M  
 FIRST READING 0  
 LAST READING 0  
 CASING-DRILLER 2.8 M  
 CASING-COCHER 2.8 M  
 BIT SIZE 5.5"

MUD FLUID TYPE WATER  
 DENS. LOGS 1.1  
 PULV. LOGS N/A  
 SAMPLE SOURCE N/A  
 REF @ MASS TEMP N/A  
 REF @ MASS TEMP N/A  
 SOURCE IRI/IRIC  
 REF @ BHI  
 TIME SINCE CIRC  
 MAX RIC TEMP  
 EQUIPMENT/BASE V225 - HEADER  
 RECORDED BY JCV  
 INTERPRESED BY

RUN NUMBER	BOREHOLE RECORD			CASING RECORD		
	BIT	FROM	TO	SIZE	WEIGHT	FROM TO
ONE	5.5"	79.5 M	91.2 M	7"		0 2.8 M

EQUIPMENT	RUN 1	RUN 2	RUN 3	RUN 4
11				

REMARKS

GAMMA RAY FOCUS ELECTRIC SLIMLINE UNIT

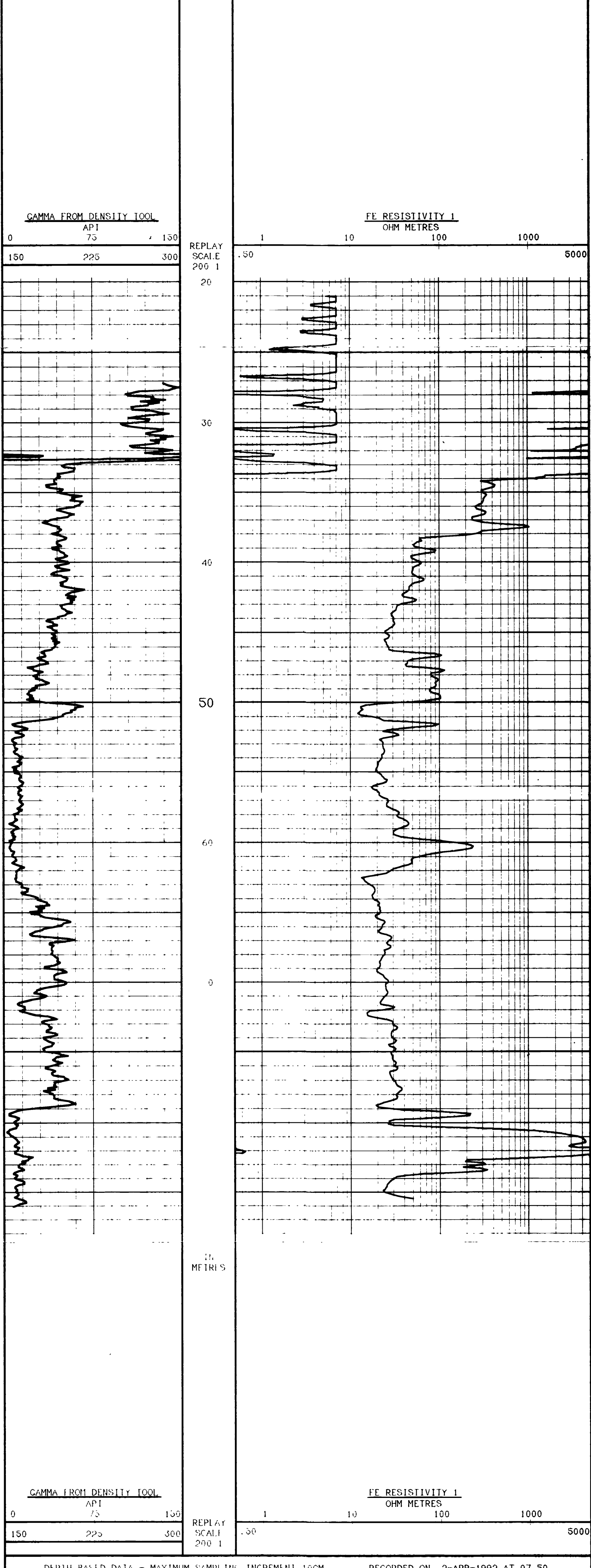
N 102 737.013 E 99 206.329

SYSTEM CONFIGURATION DATES LOGGED PROCESSED PLOTTED

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MAIN LOG

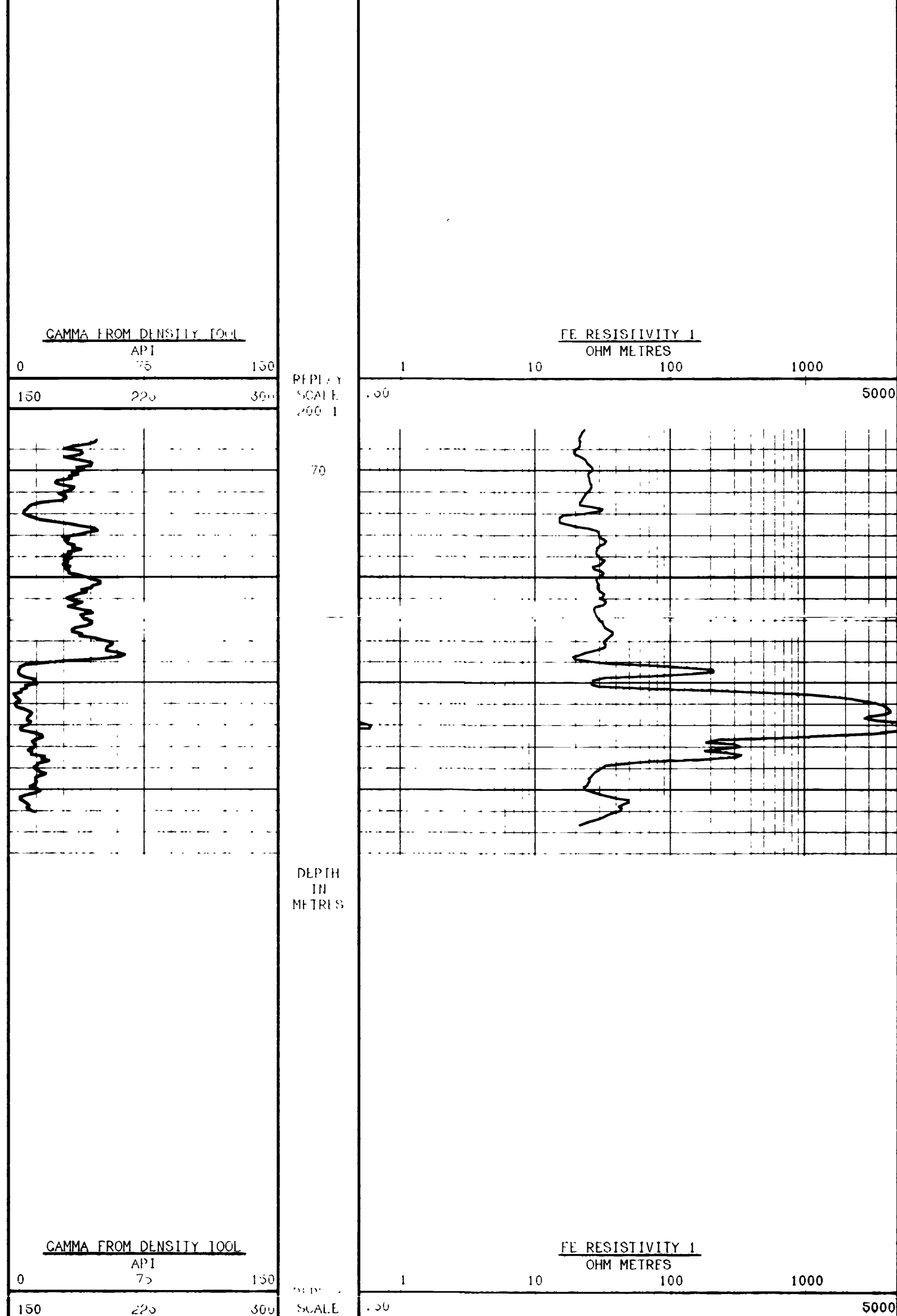
DEPTH BASED DATA - MAXIMUM SAMPLING INCREMENT 10CM. RECORDED ON 2-APR-1992 AT 07 50  
 FILENAME MRCE017M.CIB RUN ID MAIN LOC PLOTTED ON 02-APR-1992 AT 08 03



DEPTH BASED DATA - MAXIMUM SAMPLING INCREMENT 10CM. RECORDED ON 2-APR-1992 AT 07 50  
 FILENAME MRCE017M.CIB RUN ID MAIN LOC PLOTTED ON 02-APR-1992 AT 08 03

REPEAT SECTION

DEPTH BASED DATA - MAXIMUM SAMPLING INCREMENT 10CM. RECORDED ON 2-APR-1992 AT 07 46  
 FILENAME MRCE017R.CIB RUN ID REPEAT SECTION PLOTTED ON 02-APR-1992 AT 08 02



DEPTH BASED DATA - MAXIMUM SAMPLING INCREMENT 10CM. RECORDED ON 2-APR-1992 AT 07 46  
 FILENAME MRCE017R.CIB RUN ID REPEAT SECTION PLOTTED ON 02-APR-1992 AT 08 02

REPEAT SECTION

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



