

<b>GAMMA RAY CALIPER</b>		<b>RESISTANCE DENSITY</b>	
COMPANY <i>DELTA COAL TRADING CO. SD</i>			
WELL <i>92-023 PMAA W 109 SEC. 8 T4</i>			
LOCATION <i>07 75 E 99, 923-855</i>			
FIELD <i>QUAKERS</i>			
PROVINCE <i>SD</i>			
PERMANENT DATUM GROUND LEVEL ELEV. <i>6</i>		OTHER DATUMS ELEV. <i>60</i>	
LOG MEASURED FROM WIND DIGHT MEASURED FROM		CGS <i>35.5-072</i>	
RUN NO. <i>1</i>	LOG NO. <i>4 017 B</i>	DATE <i>5/1</i>	WITNESSED BY <i>LENTAKU</i>
LOGGING LOGGED <i>1/4</i>	LOGGING LOGGED <i>1/4</i>	LOGGING LOGGED <i>5</i>	LOGGING LOGGED <i>1/4</i>
CLEAN OUT <i>1/8</i>	CLEAN OUT <i>1/8</i>	CLEAN OUT <i>1/8</i>	CLEAN OUT <i>1/8</i>
CHANGING ELECTRODES <i>1/8</i>	CHANGING ELECTRODES <i>1/8</i>	CHANGING ELECTRODES <i>1/8</i>	CHANGING ELECTRODES <i>1/8</i>
PAUL TYPE <i>1/8</i>	PAUL TYPE <i>1/8</i>	PAUL TYPE <i>1/8</i>	PAUL TYPE <i>1/8</i>
LIQUID LEVEL <i>1/8</i>	LIQUID LEVEL <i>1/8</i>	LIQUID LEVEL <i>1/8</i>	LIQUID LEVEL <i>1/8</i>
MAIN DAMPER <i>1/8</i>	MAIN DAMPER <i>1/8</i>	MAIN DAMPER <i>1/8</i>	MAIN DAMPER <i>1/8</i>
OPERATING TIME <i>2 HR</i>	OPERATING TIME <i>2 HR</i>	OPERATING TIME <i>2 HR</i>	OPERATING TIME <i>2 HR</i>
RECORD NO. <i>5/1</i>	RECORD NO. <i>5/1</i>	RECORD NO. <i>5/1</i>	RECORD NO. <i>5/1</i>

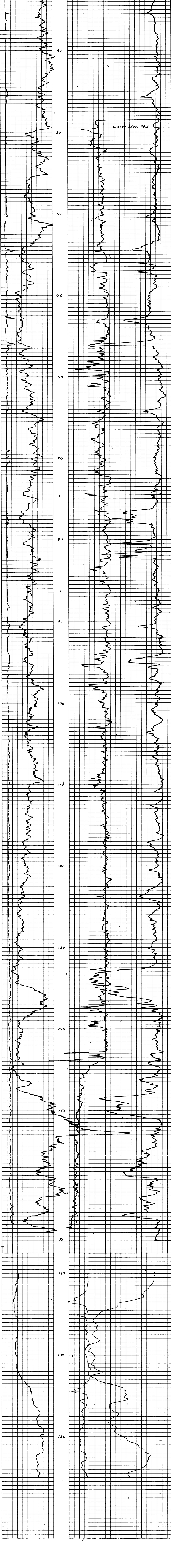
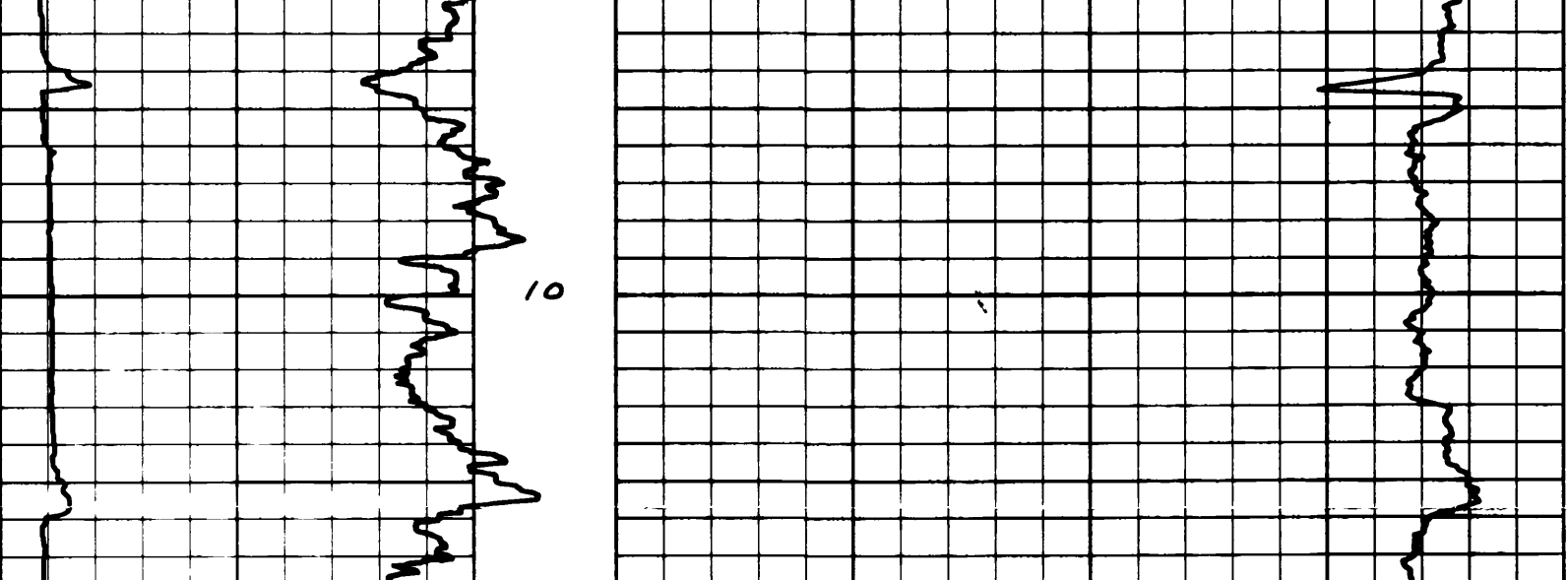
EQUIPMENT DATA							
GAMMA RAY		RESISTANCE		DENSITY		CALIPER	
Run No.	1	1	1	1	1	1	1
Tool Model No.	L-103	L-103	L-103	L-103	L-103	L-103	L-103
Diameter	32 mm	32 mm	32 mm	32 mm	32 mm	32 mm	32 mm
Type	SCINT	E	E	FOCUSED	FOCUSED	FOCUSED	EM
Spacing							
Length	75 cm	5 cm	5 cm	5 cm	5 cm	5 cm	5 cm
Horiz. Scale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

LOGGING DATA										
GENERAL				GAMMA RAY				DENSITY		
RUN NO.	DEPTHS		SPEED MIN	T.C. SEC.	SENS. SETTINGS	ZERO DIV. OR R.	API UNITS PER LOG DIV.	T.C. SEC.	SENS. SETTINGS	ZERO DIV. OR R.
	1	0								

Remarks: General

Inst. Truck No: /

Location: *SARAWAK RIVER*





1001 STREET NW  
 CAMDEN, MD 21613  
 (410) 278-4848

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

COMPANY: BARBARA CORP. MINING. 8822  
 WELLS: 92-034 (7) 88 LI (00) 578-436  
 LOCATION: PT 7.5 E 72 253.074  
 FIELD: QUASADA  
 PRODUCE: 6.6  
 W: M

Permanent Datum: GROUND LEVEL Elev:           
 Log Measured From: C. L. Above Perm. Datum  
 Well Depth Measured From:          G.L. 335.786

Run No: 1      EXHIBIT 2  
 Date: 3 OCT 92  
 Firm Reading:           
 Lam Reading:           
 Fringe Logged:           
 Depth Reached:           
 Depth Other:           
 Casing Electrod:           
 Casing Other:           
 Fluid Type:           
 Liquid Level:           
 Min. Diameter:           
 Operating Time:           
 Truck No:           
 Record By:         

**EQUIPMENT DATA**

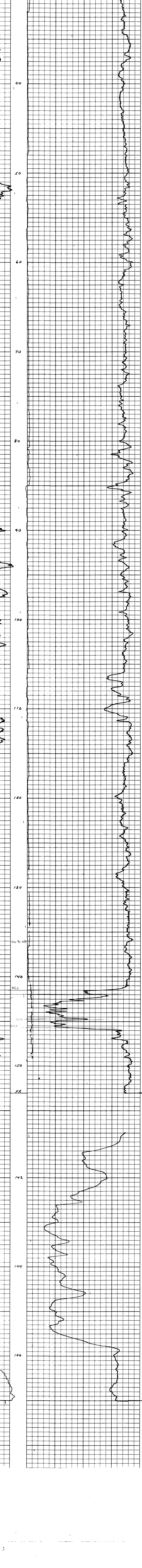
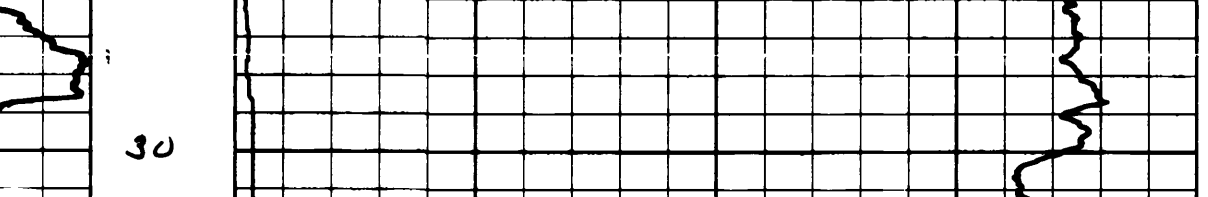
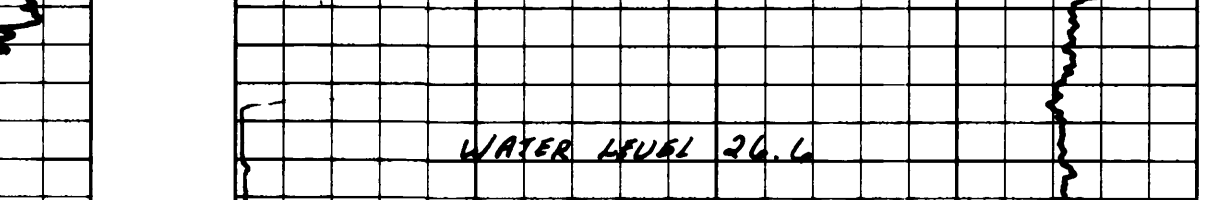
GAMMA RAY	RESISTANCE	DENSITY	CALIPER
Run No. 1	1	1	1
Tool Model No. L103	L103	L103	L103
Diameter 32 mm	32 mm	32 mm	32 mm
Type SCINT	E	FOCUSED	EM
Spacing			
Length 75 cm	5 cm	5 cm	
Horiz. Scale			
Source	<u>25.0 / 100</u>		
Serial No.		HOVP	
Isotope		980	
Strength		AM241	
		92 GBq	

**LOGGING DATA**

GENERAL		GAMMA RAY				DENSITY				
RUN NO	DEPTHS	SPEED / MIN	TC SEC	SENS SETTINGS	ZERO DIV L OR R	API UNITS PER LOG DIV	TC SEC	SENS SETTINGS	ZERO DIV L OR R	CPS/DIV
1	0	15.3	4	50	0	0.021	2	1K	2.4	85 CPS

Remarks: HOLE FILLED WITH WATER

Inst. Truck No:           
 Location: CAMPBELL RIVER

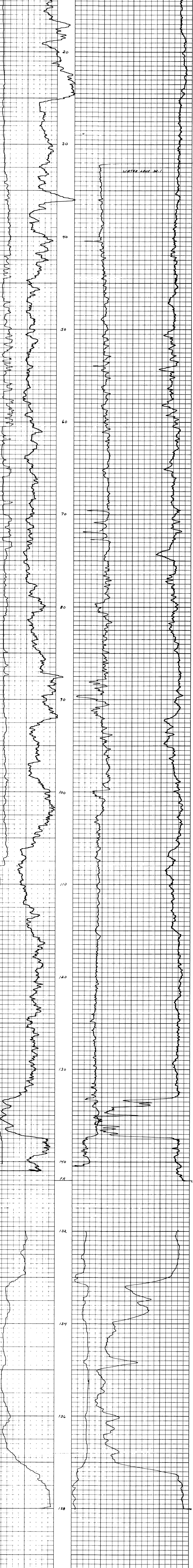
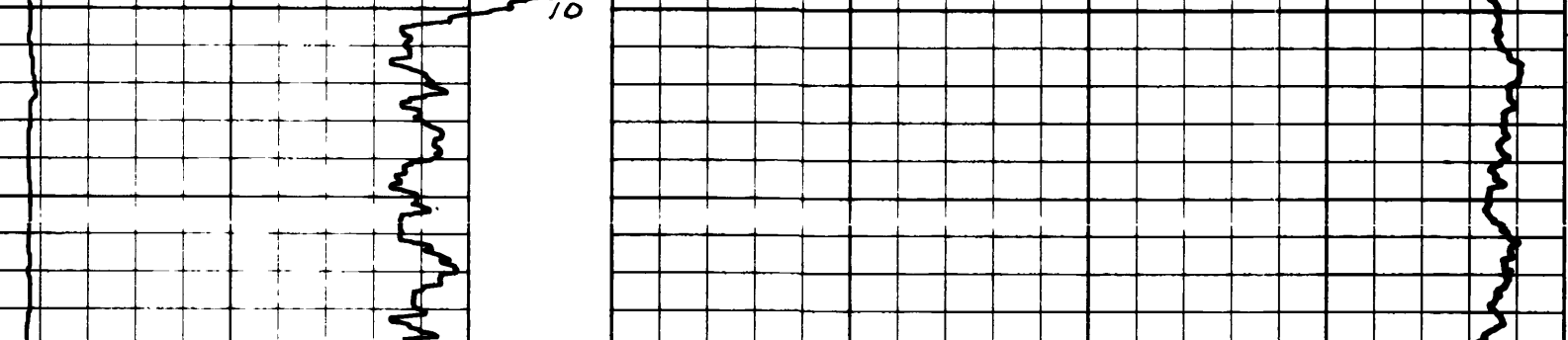


Witnessed By: LEITH/BA

2100 - 1 STREET N.W. CALGARY, ALBERTA (403) 278-8888		<b>GAMMA RAY</b>		<b>RESISTANCE</b>		<b>DENSITY</b>		<b>CALIPER</b>	
Fm No.		COMPANY <u>BRILCO CORP./LIMULCO CORP.</u>		WELL <u>92-035 790s N 100 295-671</u>		LOCATION <u>A7 75 E 79 659-727</u>		FIELD <u>QUILASNOI</u>	
LSD	SEC	TMP	PROV/INCE	LSD	SEC	TMP	PROV/INCE	LSD	SEC
			<u>BC</u>				<u>BC</u>		
Permanent Datum		GROUND LEVEL		Elev		Elev NB		CSG	
Log Measured From		<u>G. 7</u>		Above Perm Datum		<u>G. 336-451</u>			
Well Depth Measured From									
Run No.	Date		Run No.	Date		Run No.	Date		Run No.
	<u>5 OCT 92</u>								
First Reading	Last Reading		First Reading	Last Reading		First Reading	Last Reading		First Reading
	<u>0</u>			<u>0</u>					
Footage Logged	Depth Reached		Footage Logged	Depth Reached		Footage Logged	Depth Reached		Footage Logged
	<u>1/2</u>			<u>1/2</u>					
Depth Driller	Casing Electrod		Depth Driller	Casing Electrod		Depth Driller	Casing Electrod		Depth Driller
	<u>3.7</u>			<u>3.7</u>					
Fluid Type	Liquid Level		Fluid Type	Liquid Level		Fluid Type	Liquid Level		Fluid Type
	<u>WATER</u>			<u>33.7</u>					
Mm. Diameter	Operating Time		Mm. Diameter	Operating Time		Mm. Diameter	Operating Time		Mm. Diameter
	<u>1/4" I.D.</u>			<u>1/4" I.D.</u>					
Truck No.	Recorded By		Truck No.	Recorded By		Truck No.	Recorded By		Truck No.
	<u>517</u>			<u>WISSNER</u>					

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

LOGGING DATA															
GENERAL				GAMMA RAY				DENSITY							
RUN NO	FROM	TO	SPEED	T.C	SENS	ZERO	API UNITS	T.C	SENS	ZERO	CPB/DIV				
1	0	1/2	4	4	50	0	B API	2	1K	24	85 CPS				
Remarks				General											
				Inst. Truck No. <u>1</u>				Excavation <u>CAMPBELL RUNNER</u>							





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

2100-1 STREET N.W.  
 CALGARY, ALBERTA  
 T4M 1R8

COMPANY: **DELMAR OIL SERVICES**  
 WELL: **92-836 730-N 40 268 851**  
 LOCATION: **BT 75 E 98 66-760**  
 FIELD: **QUAISAIT**  
 PROVINCE: **BC**

LSO: SEC TYP REB W  
 W: M

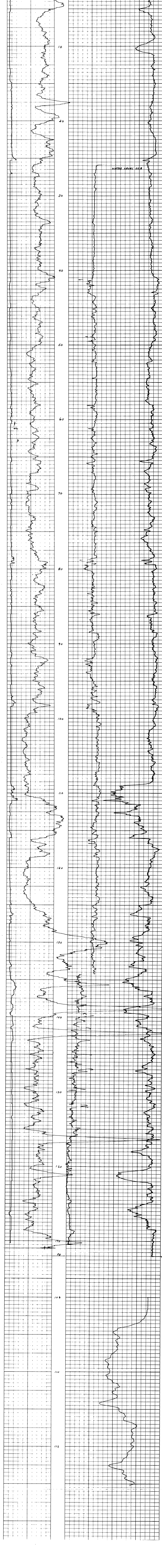
Permanent Datum: **GROUND LEVEL** Elev: **80**  
 Log Measured From: **2.7** Above Perm Datum  
 Well Depth Measured From: **0**

Run No	1	51200000
Date	8 Oct 92	11.3
First Reading	172	10.8
Last Reading	0	5
Footage Logged	172	
Depth Reached	172	
Depth Gauge		
Count Electrod		
Count Driver		
Fluid Type	WATE	
Liquid Level	45.8	
Min Diameter	24	
Opening Time	218	
Trace No		
Recorded By		Witnessed By: <b>LEITNER</b>

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

LOGGING DATA											
GENERAL				GAMMA RAY				DENSITY			
RUN	DEPTHS		SPEED	T.C.	SENS	ZERO	API UNITS	T.C.	SENS	ZERO	CPS/CM
NO	FROM	TO	MIN	SEC	SETTINGS	DIV L OR R	PER LOG DIV	SEC	SETTINGS	DIV L OR R	
1	0	172	4	4	50	0	0.01	2	14	24	0.500

Remarks: General  
 First Truck No: 1  
 Location: **CARROLL RIVER**









**FIELD LOG**

2100 - 1 STREET NW  
CALGARY, ALBERTA  
(403) 278-4459

**GAMMA RAY  
CALIPER**

**RESISTANCE  
DENSITY**

COMPANY ARLICO COAL THERMALS CO LTD  
WELL 72-03871-01 N 100-285-379  
LOCATION 27-25 E 100-285-620  
FIELD ARLICO  
PROVINCE BC  
LSD SEC TWP RGE W

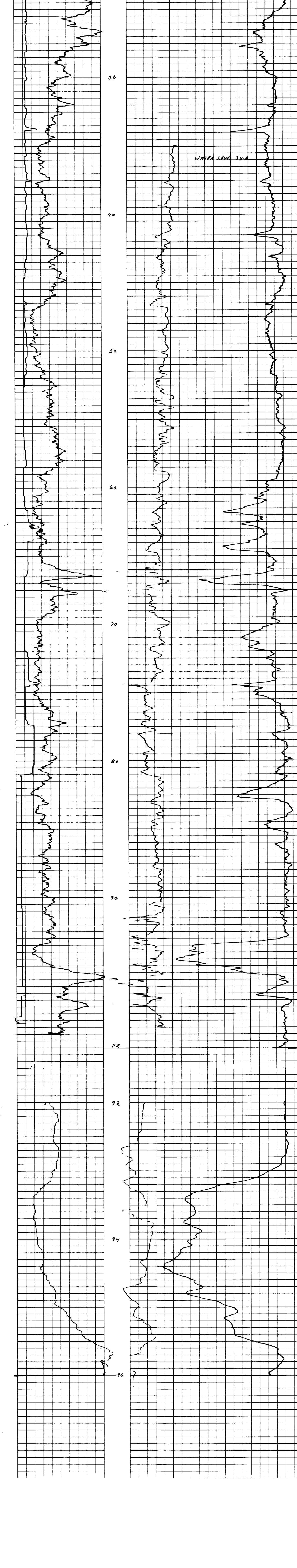
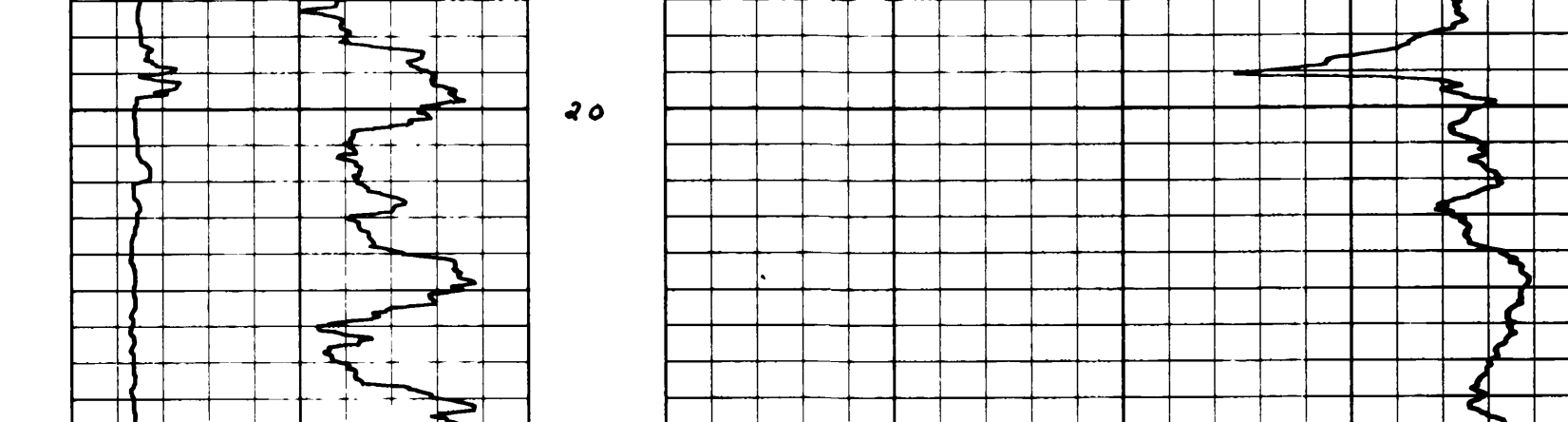
PERMANENT DATUM ELER ELEV. KB \_\_\_\_\_  
LOG MEASURED FROM 6.7 ABOVE PERM DATUM  
WELL DEPTH MEASURED FROM \_\_\_\_\_  
GL 306.081

Run No. \_\_\_\_\_  
Date 17 Oct 82  
First Reading \_\_\_\_\_  
Last Reading \_\_\_\_\_  
Footage Logged \_\_\_\_\_  
Depth Reached \_\_\_\_\_  
Depth Driller \_\_\_\_\_  
Casing Electronic \_\_\_\_\_  
Casing Driller \_\_\_\_\_  
Fluid Type WATER  
Liquid Level 34.8  
Min. Diameter 14  
Operating Time 1/2 hrs  
Truck No. \_\_\_\_\_  
Recorded By SLK Witnessed By GDH/MS

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

LOGGING DATA											
GENERAL				GAMMA RAY				DENSITY			
RUN NO	DEPTHS		SPEED ft/min	TC SEC	SENS SETTINGS	ZERO DIV L OR R	API UNITS PER LOG DIV	TC SEC	SENS SETTINGS	ZERO DIV L OR R	CPS/DIV
	FROM	TO									
1	0	101	14	4	50	0	800	3	116	24	87 cps

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





2109, 1 STREET NW  
CALGARY, ALBERTA  
(403) 278-8459

**GAMMA RAY**  
**CALIPER**

**RESISTANCE**  
**DENSITY**

COMPANY *DELTA COAL TRADING CO. LTD.*  
WELL *22-057 Mine N 100, 208-735*  
TWP *17 25* E *100, 222-620*  
RGE *E*  
M *M*

FIELD *0118527*  
PROVINCE *ALTA.*

PERMANENT DULUM GROUND LEVEL ELEV *48*  
LOG MEASURED FROM *6.7* ABOVE PERM DULUM  
WELL DEPTH MEASURED FROM *GL 305.155*

Run No *1*  
Date *17 Oct 22*

Final Reading *0*  
Foreign Logged *0*  
Depth Reached *91*  
Casing Driller *...*  
Casing Electrolog *...*  
Casing Drive *...*

Fluid Type *L4228*  
Liquid Level *34.5*  
Min Diameter *1 1/4*  
Operating Time *1/3000*

Truck No *5/7*  
Recorded By *...*  
Witnessed By *...*

EQUIPMENT DATA

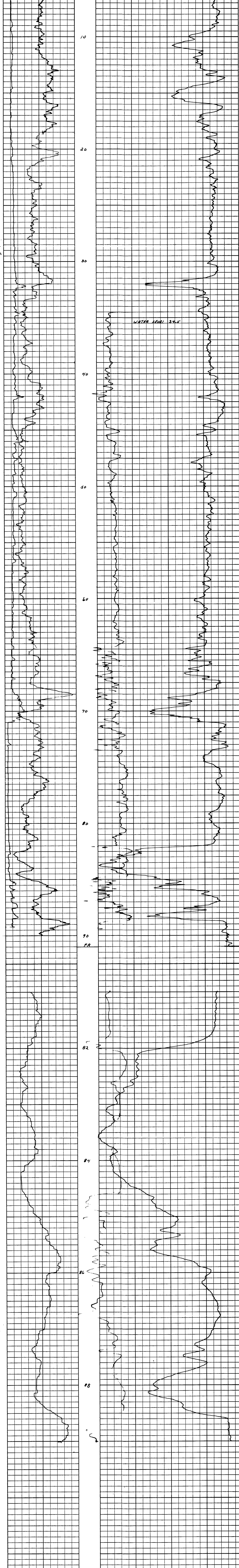
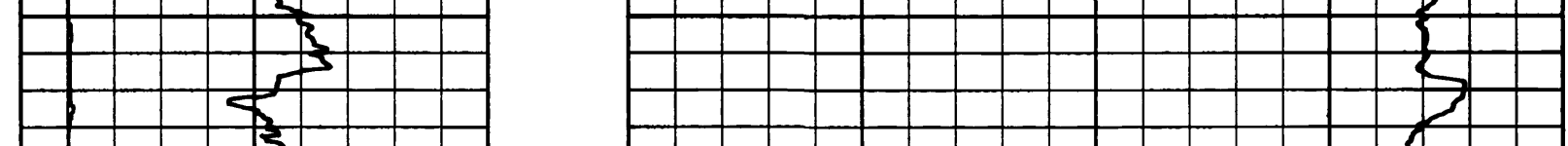
	GAMMA RAY	RESISTANCE	DENSITY	CALIPER
Run No.	1	1	1	1
Tool Model No	L-103	L-103	L-103	L103
Diameter	32 mm	32 mm	32 mm	32 mm
Type	SCINT	E	FOCUSED	EM
Spacing				
Length	75 cm	5 cm	5 cm	
Horiz. Scale	<i>25 P/DIV</i>			
Source			HOVP	
Serial No.			980	
Isotope			AM241	
Strength			92 GBq	

LOGGING DATA

RUN NO	GENERAL			TC SEC	GAMMA RAY			TC SEC	DENSITY		
	DEPTHS FROM	DEPTHS TO	SPEED MIN		SENS SETTINGS	ZERO DIV L OR R	API UNITS PER LOG DIV		SENS SETTINGS	ZERO DIV L OR R	CPS/DIV
1	0	91	4	4	50	0	RAP	2	1/K	26	5.223

Remarks: General

Inst. Truck No *1*  
Location *CAMPBELL RIVER*





2100 - 1 STREET N.W.  
CALGARY, ALBERTA  
(403) 278-4459

**GAMMA RAY  
CALIPER**

**RESISTANCE  
DENSITY**

File No

LSD

SEC

TMP

RGE

W

N

PROVINCE

LSD

SEC

TMP

RGE

W

N

Other Services

COMPANY

WELL

LOCATION

FIELD

PROVINCE

LSD

SEC

TMP

RGE

W

N

2100 - 1 STREET N.W.  
CALGARY, ALBERTA  
(403) 278-4459

File No

LSD

SEC

TMP

RGE

W

N

PROVINCE

LSD

SEC

TMP

RGE

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N

Other Services

COMPANY

WELL

LOCATION

FIELD

PROVINCE

LSD

SEC

TMP

RGE

W

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2100 - 1 STREET N.W.  
CALGARY, ALBERTA  
(403) 278-4459

File No

LSD

SEC

TMP

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PROVINCE

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RGE

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Other Services

COMPANY

WELL

LOCATION

FIELD

PROVINCE

LSD

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2100 - 1 STREET N.W.  
CALGARY, ALBERTA  
(403) 278-4459

File No

LSD

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Other Services

COMPANY

WELL

LOCATION

FIELD

PROVINCE

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2100 - 1 STREET N.W.  
CALGARY, ALBERTA  
(403) 278-4459

File No

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Other Services

COMPANY

WELL

LOCATION

FIELD

PROVINCE

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2100 - 1 STREET N.W.  
CALGARY, ALBERTA  
(403) 278-4459

File No

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Other Services

COMPANY

WELL

LOCATION

FIELD

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2100 - 1 STREET N.W.  
CALGARY, ALBERTA  
(403) 278-4459

File No

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Other Services

COMPANY

WELL

LOCATION

FIELD

PROVINCE

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2100 - 1 STREET N.W.  
CALGARY, ALBERTA  
(403) 278-4459

File No

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PROVINCE

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Other Services

COMPANY

WELL

LOCATION

FIELD

PROVINCE

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2100 - 1 STREET N.W.  
CALGARY, ALBERTA  
(403) 278-4459

File No

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PROVINCE

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Other Services

COMPANY

WELL

LOCATION

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2100 - 1 STREET N.W.  
CALGARY, ALBERTA  
(403) 278-4459

File No

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PROVINCE

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RGE

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Other Services

COMPANY

WELL

LOCATION

FIELD

PROVINCE

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2100 - 1 STREET N.W.  
CALGARY, ALBERTA  
(403) 278-4459

File No

LSD

SEC

TMP

RGE

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N

PROVINCE

LSD

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TMP

RGE

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N

Other Services

COMPANY

WELL

LOCATION

FIELD

PROVINCE

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TMP

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2100 - 1 STREET N.W.  
CALGARY, ALBERTA  
(403) 278-4459

File No

LSD

SEC

TMP

RGE

W

N

PROVINCE

LSD

SEC

TMP

RGE

W

N

Other Services

**ELECTRONIC**

**GAMMA RAY RESISTANCE CALIPER DENSITY**

2108-1 STREETWAY  
COLUMBIA, MISSOURI  
(408) 576-6600

COMPANY *Reliance Coal Lignite Corp*

WELL *92-041 Pines N 100, 122, 834*

LOCATION *RT 15 E 100, 347, 757*

FIELD *BUSSARD*

PROVINCE *BC*

STATE *SEC TWP RSE W*

Other Services

Permanent Datum GROUND LEVEL Elev Above Perm Datum

Log Measured From *G.L.*

Well Depth Measured From Elev NB *CSG 284.62*

Run No *1* Date *17 OCT 72* Expended

First Reading *23* Last Reading *50*

Footage Logged *0*

Depth Reached *23* *1/2*

Depth Driller

Casing Electrod

Casing Driller

Fluid Type *WATER*

Liquid Level *24.5*

Min Diameter *1 1/4*

Operating Time *1 1/2 hrs*

Truck No *572* Witnessed By *BARBER*

**EQUIPMENT DATA**

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

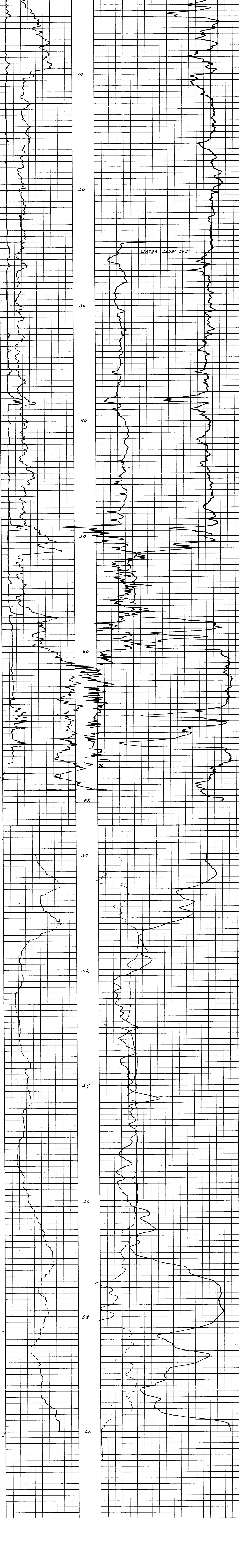
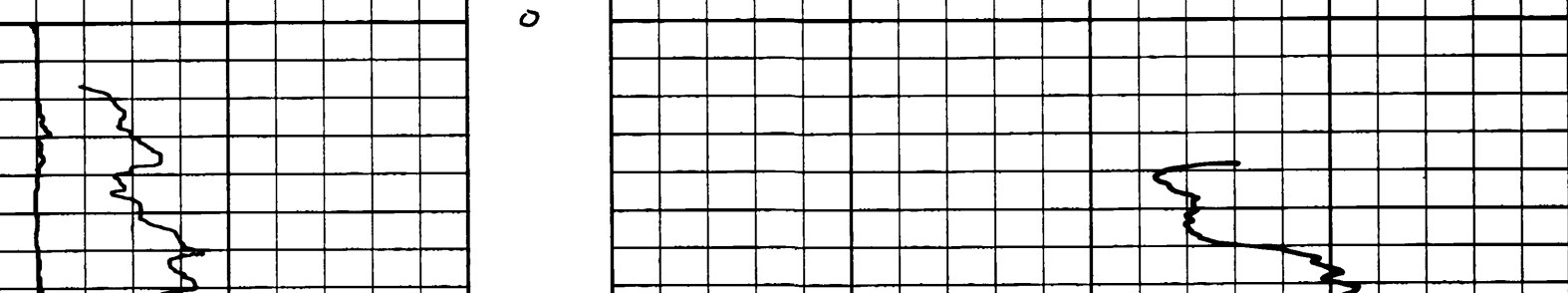
**LOGGING DATA**

RUN NO	GENERAL			GAMMA RAY			DENSITY				
	FROM	TO	SPEED MIN	T.C. SEC	SENS SETTINGS	ZERO DIV L OR R	API UNITS PER LOG DIV	T.C. SEC	SENS SETTINGS	ZERO DIV L OR R	CPS/DIV
1	0	23	4	4	50	0	8 API	2	1K	32	85 CPS

Remarks

Truck No *1*

Location *CARROLL RIVER*







<b>2100 - 1 - RESISTIVITY</b> <b>CALIPER</b>		<b>RESISTANCE</b> <b>DENSITY</b>	
COMPANY: <b>ARIARCO OROVAL TULUAMA CORP.</b>			
WELL: <b>92-013 (P) 25 E 109 102.535</b>			
LOCATION: <b>P/T 25 E 109 102.535</b>			
FIELD: <b>QUARISEA</b>			
PROVINCE: <b>A.C.</b>			
W _____ M _____			
LSD _____ SEC _____ TWP _____ RGE _____ W _____		Other Services _____	
Permanent Datum: GROUND LEVEL		Elev. BM _____	
Log Measured From: <b>G.L.</b>		Above Perm Datum	
Well Depth Measured From _____		CGS <b>365.542</b>	
Run No: <b>1</b> EXPENSIVE			
Date: <b>18 OCT 92</b>			
First Reading: <b>97</b>			
Last Reading: <b>92</b>			
Footage Logged: <b>0</b>			
Depth Reached: <b>97</b>			
Depth Driller: <b>2</b>			
Casing Driller: <b>2</b>			
Fluid Type: <b>WATER</b>			
Liquid Level: <b>3</b>			
Min. Diameter: <b>1 1/2 IN</b>			
Operating Time: <b>1</b>			
Truck No: <b>517</b>			
Witnessed By: <b>GAZDNER</b>			

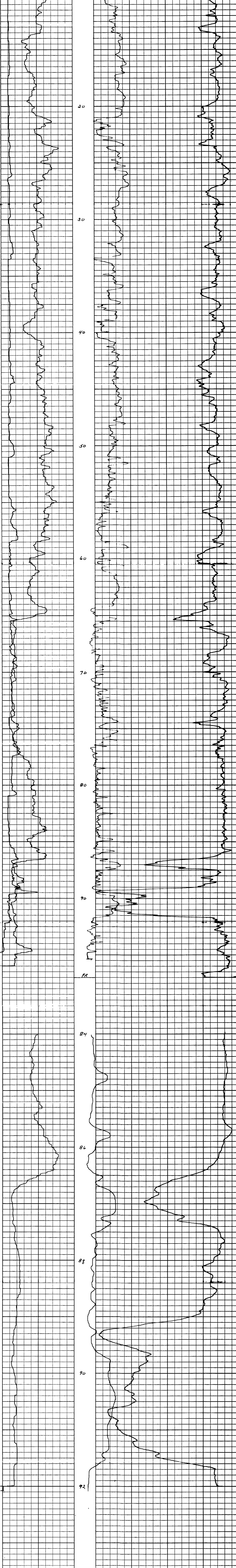
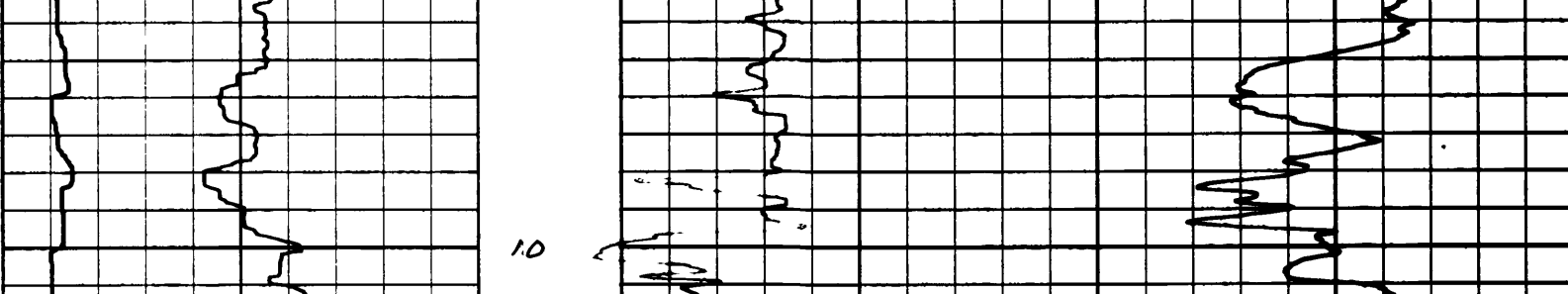
EQUIPMENT DATA				
	GAMMA RAY	RESISTANCE	DENSITY	CALIPER
Run No	1	1	1	1
Tool Model No	L-103	L-103	L-103	L-103
Diameter	32 mm	32 mm	32 mm	32 mm
Type	SCINT	E	FOCUSED	EM
Spacing				
Length	75 cm	5 cm	5 cm	
Horiz. Scale				
Source			HOVP	
Serial No			980	
Isotope			AM241	
Strength			92 GBq	

LOGGING DATA												
RUN NO	GENERAL			T/C	GAMMA-RAY				T/C	DENSITY		
	DEPTHS	SPEED	MIN		SENS	ZERO	API UNITS	SEC		SENS	ZERO	CPB/DIV.
1	FROM	TO	4	50	DIV L OR R	PER LOG DIV	2	1K	3L	RCBS		
	0	97	4	4		0	0 API					

Remarks: \_\_\_\_\_

Instr. Truck No: \_\_\_\_\_

Location: **CALIBALL RIVER**



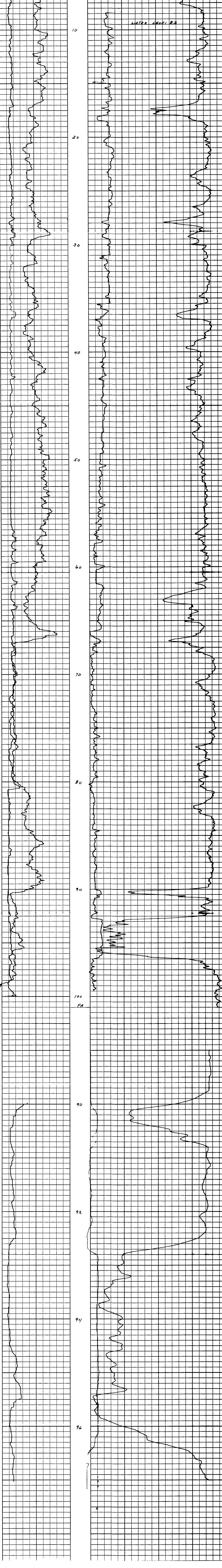
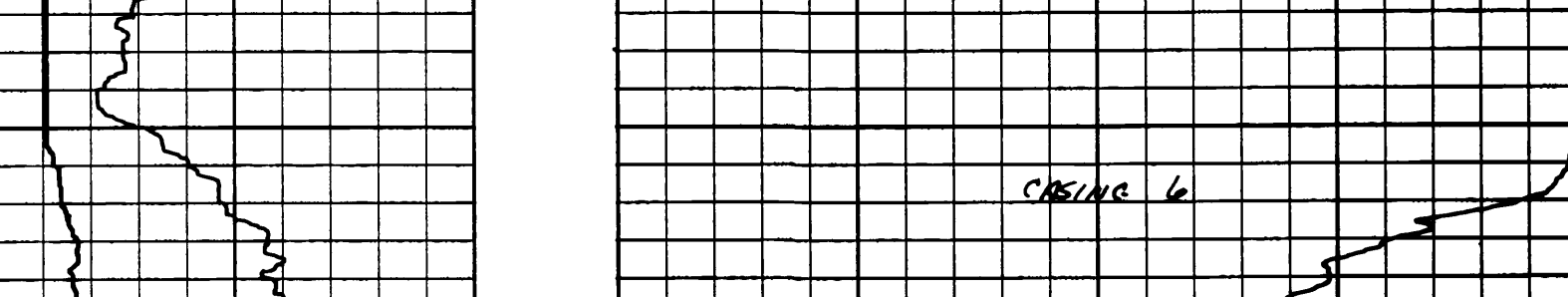


<b>Fig. 1 STRATUM</b> <b>CALIPER, RESISTANCE</b> <b>(80) 274-000</b>		<b>GAMMA RAY</b> <b>CALIPER</b>		<b>RESISTANCE</b> <b>DENSITY</b>	
COMPANY <u>BLANCO COAL MINING CORP</u>					
WELL <u>92-0411 Ma N 103.118-928</u>					
LOCATION <u>AT 75 E 100 224.402</u>					
FIELD <u>QUASSET</u>					
PROVINCE <u>8-C</u>					
W _____ M _____					
LSD _____ SEC _____ TWP _____ ROE _____ W _____		Other Services _____			
Permanent Datum _____ GROUND LEVEL _____ Elev _____		Elev AB _____			
Log Measured From _____ <u>6.7</u> Above Perm Datum		CSO _____			
Well Depth Measured From _____		GI <u>308.255</u>			
Run No _____ Date <u>18 OCT 94</u> EXCHANGE _____					
First Reading _____ Last Reading <u>97</u>					
Footage Logged _____					
Depth Reached _____ <u>101</u>					
Depth Driller _____ <u>101</u>					
Casing Electrod _____ <u>8.4</u>					
Fluid Type _____ <u>WATER</u>					
Liquid Level _____ <u>8.3</u>					
Min. Diameter _____ <u>14</u>					
Operating Time _____ <u>1 1/2 hrs</u>					
Truck No _____ Recorder By _____ Witnessed By <u>GARNER</u>					

EQUIPMENT DATA									
GAMMA RAY		RESISTANCE		DENSITY		CALIPER			
Run No	1	1	1	1	1	1	1	1	1
Tool Model No	L-103	L-103	L-103	L-103	L-103	L-103	L-103	L-103	L-103
Diameter	32 mm	32 mm	32 mm	32 mm	32 mm	32 mm	32 mm	32 mm	32 mm
Type	SCINT	E	FOCUSED	EM					
Spacing									
Length	75 cm	5 cm	5 cm	5 cm					
Horiz. Scale	<u>25.5/100</u>								
Source				HOVP					
Serial No				980					
Isotope				AM241					
Strength				92 GBq					

LOGGING DATA										
GENERAL			GAMMA-RAY				DENSITY			
RUN NO	DEPTHS	SPEED	T/C	SENS	ZERO	API UNITS	T/C	SENS	ZERO	CPB/DIV.
	FROM TO	/MIN	SEC	SETTINGS	DIV L OR R	PER LOG DIV	SEC	SETTINGS	DIV L OR R	
1	0 101	4	4	50	0	8 API	2	1K	25	85005

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







ELECTRICAL LOG

2109 - 1 STREET NW  
CALGARY, ALBERTA  
(403) 278-8888

**GAMMA RAY**  
**CALIPER**

**RESISTANCE**  
**DENSITY**

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

COMPANY **DELTA** - **COAL HILLING** - **60689**

WELL **54-046 M25 N 103, 182, 198**

LOCATION **217 75 E 100, 80, 938**

FIELD **BLUESHILL**

PROVINCE **B.C.**

SEC \_\_\_\_\_ TYP \_\_\_\_\_ RGE \_\_\_\_\_ W \_\_\_\_\_

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

Permanant Datum \_\_\_\_\_ ELEV \_\_\_\_\_

Log Measured From **4.7** Above Perm Datum

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

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

Date **17 OCT 74** **EXHIBIT**

Final Reading \_\_\_\_\_

Last Reading **116** **116**

Footage Logged **0** **116**

Depth Reached **116** **8**

Depth Driller \_\_\_\_\_

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

Casing Driller **WATER**

Fluid Level **13.9**

Ann Diameter **1.7**

Operating Time **1 1/4**

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

Recorded By **S/L** Witnessed By **BARBARA**

EQUIPMENT DATA

	GAMMA RAY	RESISTANCE	DENSITY	CALIPER
Run No.	1	1	1	1
Tool Model No.	L-103	L-103	L-103	L103
Diameter	32 mm	32 mm	32 mm	32 mm
Type	SCINT	E	FOCUSED	EM
Spacing				
Length	75 cm	5 cm	5 cm	
Horiz. Scale	<b>25 R / DIV</b>			
Source			HOVP	
Serial No.			980	
Isotope			AM241	
Strength			92 GBq	

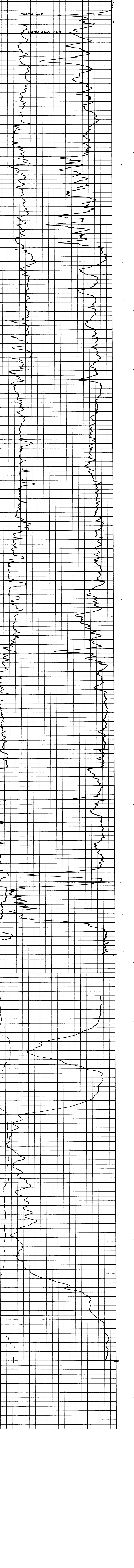
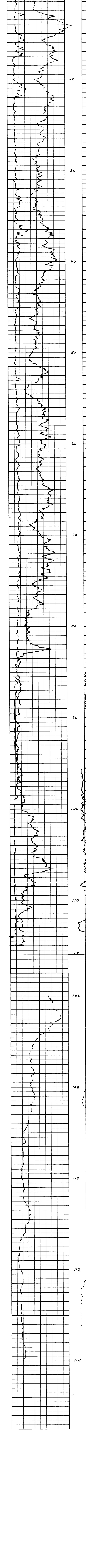
LOGGING DATA

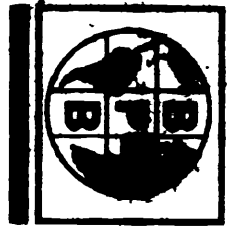
RUN NO	GENERAL		SPEED Ft. MIN	T.C. SEC	GAMMA-RAY			T.C. SEC	DENSITY		
	DEPTHS	TO			SENS SETTINGS	ZERO DIV L OR R	API UNITS PER LOG DIV		SENS SETTINGS	ZERO DIV L OR R	CPS/DIV
1	0	116	4	4	50	0	B AP1	2	1K	2A	85 cbs

Remarks \_\_\_\_\_

Inst. Truck No. **1**

Location **CAMBRIDGE RIVER**





**GAMMA RAY  
DIPMETER  
SLIMLINE UNIT**

LOCATION PRVNC/CO. BRITISH COLUMBIA FIELD WELL 92-022 COMPANY BRINCO COAL MINING CORP. PROVINCE/COUNTY BRITISH COLUMBIA COUNTRY/STATE CANADA	COMPANY BRINCO COAL MINING CORP. WELL 92-022 FIELD QUINSAM PROVINCE/COUNTY BRITISH COLUMBIA COUNTRY/STATE CANADA	LOCATION CAMPBELL RIVER OTHER SERVICES F.F. DDI
PERMANENT DATUM LOC MEASURED FROM CL ORILLING MEASURED FROM CL DATE 2-APR-92 RUN NUMBER ONI DEPTH-DRILLER 134.4 M DEPTH-LOGGER 134.0 M FIRST READING 134.0 M CASING-DRILLER 6.0 M CASING-LOGGER 6.0 M BIT SIZE 5.5"	LOCATION CAMPBELL RIVER LSD SITE TWP RCD ELEVATION 501.502 M ABOVE PERMANENT DATUM PERMANENT DATUM CL FLATVATIONS: KB CL 501.502 M	
HOLE FLUID TYPE WATER DENS./VISC. 1.1 N/A PH/FLUID LOSS N/A SAMPLE SOURCE N/A RM @ MEAS. TEMP RM @ MEAS. TEMP RM @ MEAS. TEMP RM @ MEAS. TEMP SOURCE RM/RMC RM @ BIT TIME SINCE CIRC MAX REC TEMP EQUIPMENT/BASE V223 REDETER RECORDED BY JCV WITNESSED BY		

BORTHOLE RECORD				CASING RECORD			
RUN NUMBER	BIT	FROM	TO	SIZE	WEIGHT	FROM	TO
ONE	5.5"	6.7 M	134.4 M	7"		0	6.0 M
EQUIPMENT				RUN 1	RUN 2	RUN 3	RUN 4
DIPMETER				262/204			

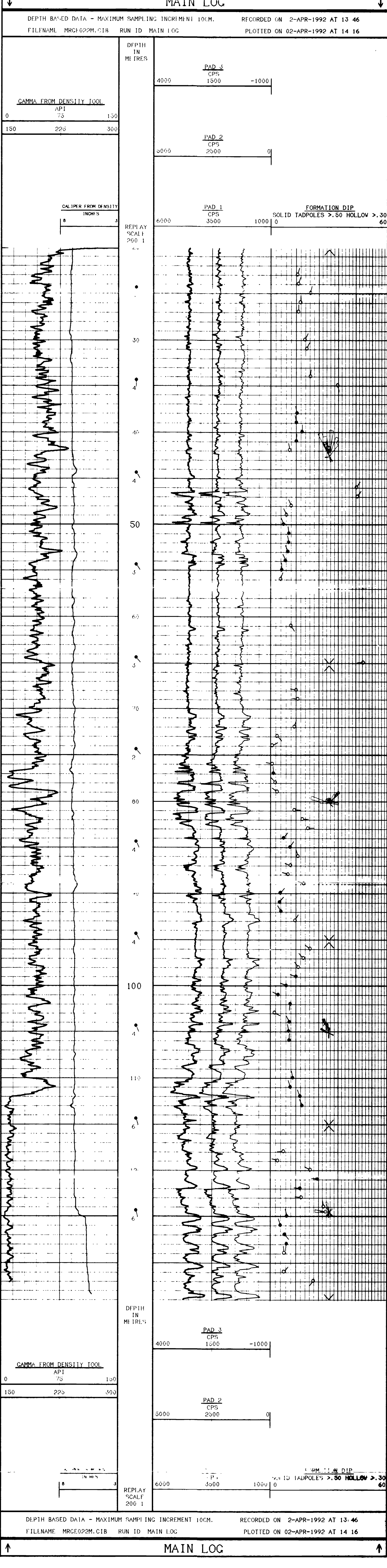
**REMARKS**

GAMMA RAY                      DIPMETER                      SLIMLINE UNIT

N 102 743.353                      E 100 690.650

SYSTEM CONFIGURATION DATA    LOGGED                      PROCESSED                      PLOTTED

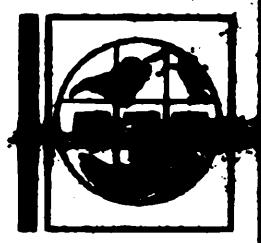
ALL INTERPRETATIONS ARE OPINIONS BASED ON INFERENCE FROM ELECTRICAL OR OTHER MEASUREMENTS AND WE CANNOT AND DO NOT GUARANTEE THE ACCURACY OR CORRECTNESS OF ANY INTERPRETATIONS AND WE SHALL NOT EXCEPT IN THE CASE OF GROSS OR WILLFUL NEGLIGENCE ON OUR PART, BE LIABLE OR RESPONSIBLE FOR ANY LOSS, COSTS,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



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







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

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

PERMANENT DATUM CL. ELEVATION 1000.0 M  
LOC MEASURED FROM CL. ABOVE PERMANENT DATUM  
DRILLING MEASURED FROM CL. ELEVATIONS: KB CL. 92.5 M

DATE	24-MAR-92
RUN NUMBER	ONE
DEPTH-DRILLER	93.3 M
DEPTH-CORR	93.0 M
FIRST READING	93.0 M
LAST READING	0
CASING-DRILLER	16.4 M
CASING-CORR	16.4 M
BIT SIZE	5.5"
HOLE FLUID TYPE	WATER
DRN. / VISC.	1.1
PH/LUID LOSS	N/A
SAMPLE SOURCE	N/A
SR @ MEAS TEMP	
RR @ MEAS TEMP	
SR @ MEAS TEMP	
SOURCE: RNT/RMC	
SR @ BIT	
TIME SINCE CIRC	
MAX RIG TEMP	
FOOTPRINT/BASE	V225 REDEER
RECORDED BY	JCV
WITNESSED BY	

RUN NUMBER	BOREHOLE RECORD			CASING RECORD		
	BIT	FROM	TO	SIZE	WEIGHT	FROM TO
ONE	5.5"	82.2 M	93.3 M	7"		0 16.4 M

EQUIPMENT	RUN 1	RUN 2	RUN 3	RUN 4
DD1	110			

**REMARKS**

CAMMA RAY CALIPER BED RESOLUTION DENSITY SLIMLINE UNIT

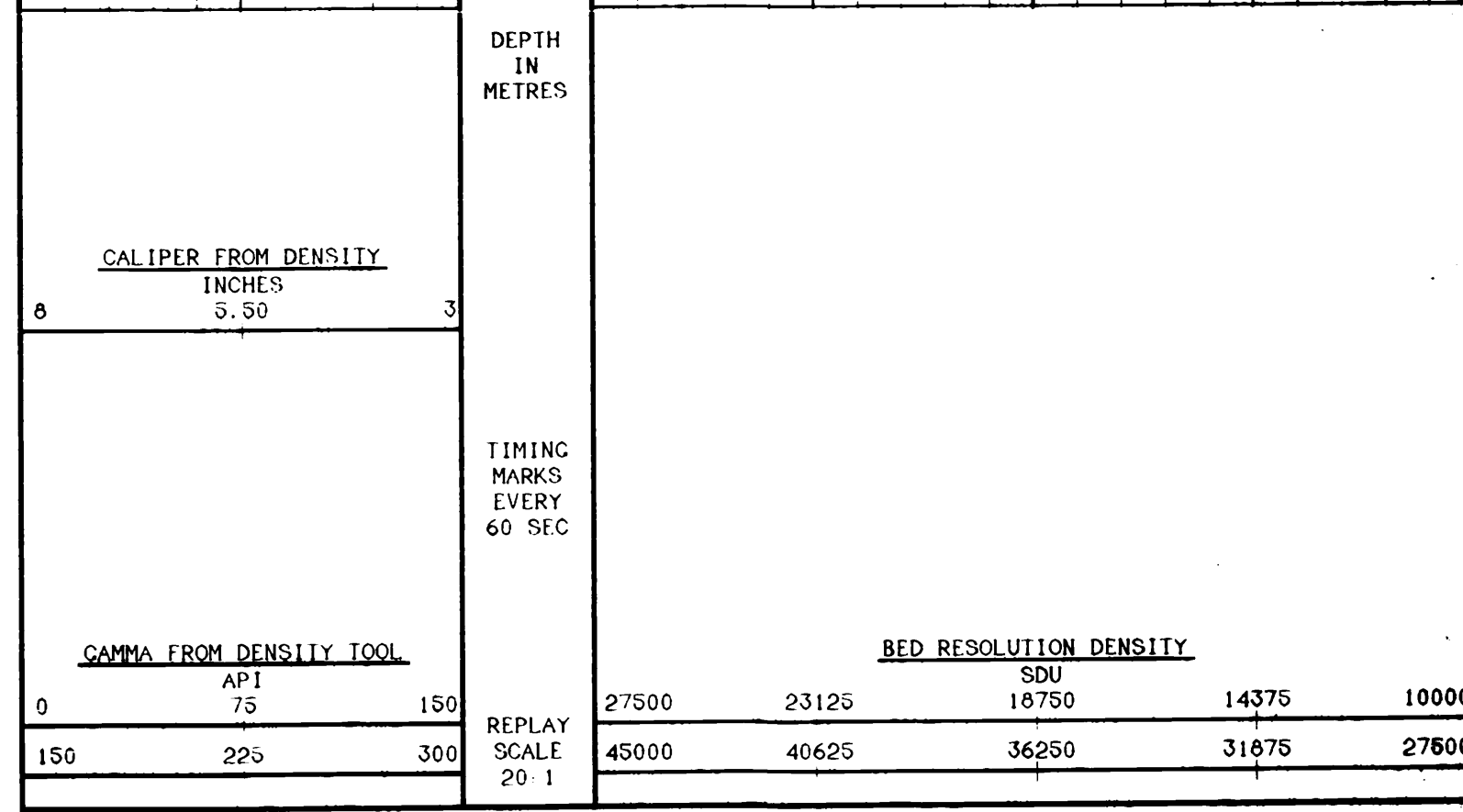
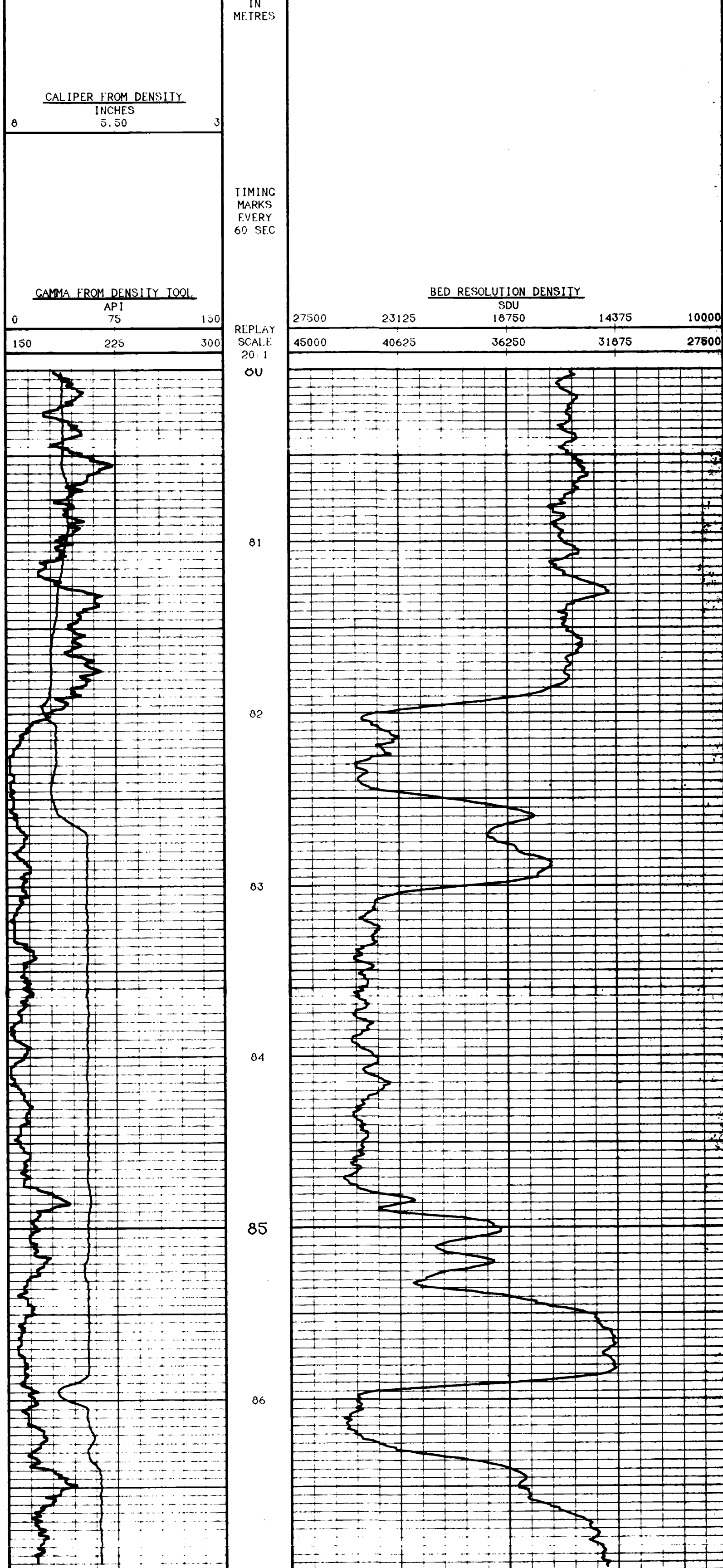
N 102 591.957 E 100.002.094

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

ALL INTERPRETATIONS ARE OPINIONS BASED ON INFERENCE FROM ELECTRICAL OR OTHER MEASUREMENTS AND WE CANNOT AND DO NOT GUARANTEE THE ACCURACY OR CORRECTNESS OF ANY INTERPRETATIONS. AND WE SHALL NOT, EXCEPT IN THE CASE OF GROSS OR 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.

**DETAIL LOG**

DEPTH BASED DATA - MAXIMUM SAMPLING INCREMENT 1CM. RECORDED ON 24-MAR-1992 AT 12:53  
FILENAME: DD3AG19A.C1B RUN ID: DETAIL LOG PLOTTED ON 02-APR-1992 AT 11:06

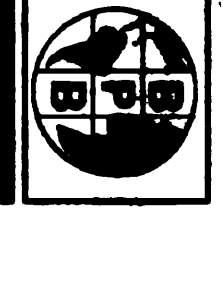


DEPTH BASED DATA - MAXIMUM SAMPLING INCREMENT 1CM. RECORDED ON 24-MAR-1992 AT 12:53  
FILENAME: DD3A019A.C1B RUN ID: DETAIL LOG PLOTTED ON 02-APR-1992 AT 11:04

**DETAIL LOG**

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





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

LOCATION	CAMPBELL RIVER	OTHER SERVICES	FF
PRVNC/CO.	BRITISH COLUMBIA		
FIELD	QUINSAM		
WELL	92-024		
COMPANY	BRINCO COAL MINING CORP.		
PROVINCE/COUNTY	BRITISH COLUMBIA		
COUNTRY/STATE	CANADA		
PERMANENT DATUM	CL	ELEVATION	309.210 M
LOC MEASURED FROM	CL	ABOVE PERMANENT DATUM	KB CL 309.210 M
DATE	29-MAR-92		
DEPTH-DRILLER	ONE		
DEPTH-OCCUR	110.6 M		
FIRST READING	117.6 M		
LAST READING	0		
CASING-DRILLER	6.3 M		
CASING-OCCUR	6.3 M		
BIT SIZE	3.5"		
HOLE FLUID TYPE	WATER		
DENS. VISC.	1.1		
PH/FLUID LOSS	N/A		
SAMPLE SOURCE	N/A		
RM @ MEAS TEMP			
RM @ MEAS TEMP			
RM @ MEAS TEMP			
SOURCE RMH /TRAC			
RM @ BHI			
LINE SINCE CIRC			
MAX REC TEMP			
TOOLBIT M/T/B/S/I	V233 RIDDER		
RECORDED BY	JCV		
WITNESSED BY			

RUN NUMBER	BOTHOLE RECORD			CASING RECORD			
	BTL	FROM	TO	SL/1	VEIGHT	FROM	TO
ONE	92.2"	97.2 M	110.6 M	1"		0	6.3 M
EQUIPMENT		RUN 1	RUN 2	RUN 3	RUN 4		
DD1		110					

**REMARKS**

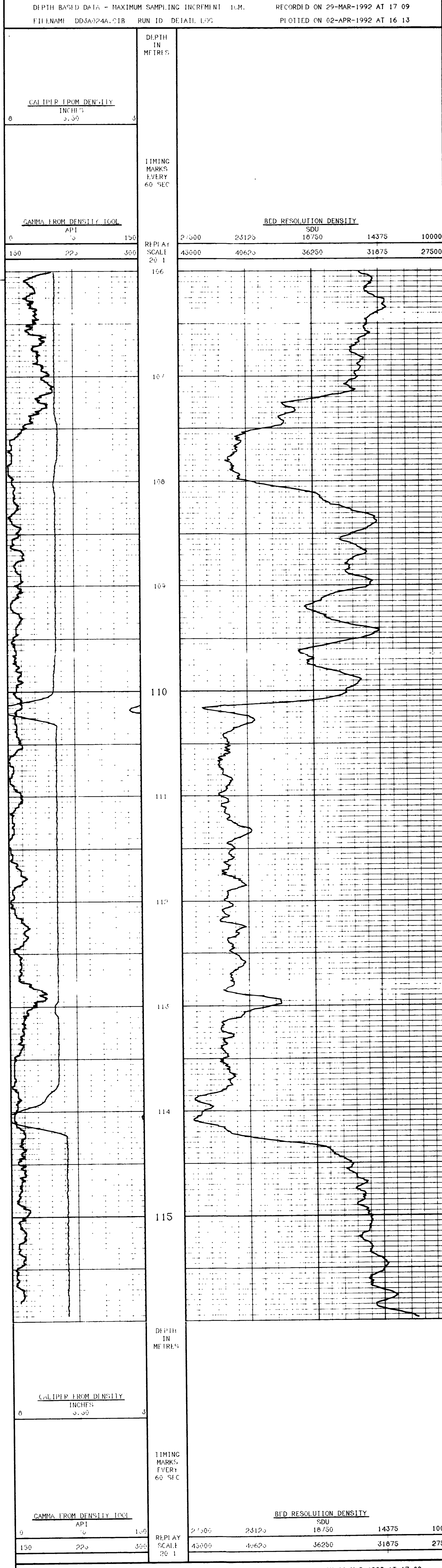
GAMMA RAY CALIPER      BED RESOLUTION DENSITY      SLIMLINE UNIT

N 100 500.200      E 100 346.100

SYSTEM CONFIGURATION DATA    LOGGED 13-MAR-1992    PROCESSED      PLOTTED

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**DETAIL LOG**



**DETAIL LOG**

DEPTH BASED DATA - MAXIMUM SAMPLING INCREMENT 1CM.      RECORDED ON 29-MAR-1992 AT 17 09

FILENAME DD3A024A.CIB    RUN ID DETAIL LOG      PLOTTED ON 02-APR-1992 AT 16 12

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



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

LOCATION	CAMPBELL RIVER	COMPANY	BRINCO COAL MINING CORP.
PRVNC/CO.	BRITISH COLUMBIA	WELL	92-025
FIELD	QUINSAM	PROVINCE/COUNTY	BRITISH COLUMBIA
WEI.		COUNTRY/STATE	CANADA
92-025			
COMPANY	BRINCO COAL MINING CORP.		
PERMANENT DATUM	CL	OTHER SERVICES	
LOG MEASURED FROM	CL	DIPMETER	SPT.
DRILLING MEASURED FROM	CL		
DATE	13-APR-92		
RUN NUMBER	ONE		
DEPTH-DRILLER	136.7 M		
DEPTH-OCCUR	136.5 M		
FIRST READING	136.5 M		
LAST READING	0		
CASING-DRILLER			
CASING-OCCUR	15.2 M		
BIT SIZE	5.5"		
HOE. LIQUID TYPE	WATER		
DENS./VISC.	1.1		
PIV/FLUID LOSS	N/A		
SAMPL. SOURCE	N/A		
RM @ MEAS TEMP			
RM @ MEAS TEMP			
RM @ MEAS TEMP			
SOURCE	RM/THC		
RM @ BHI			
TIME SINCE CIRC			
MAX REC TEMP			
EQUIPMENT/BASE	V225 RIDER		
RECORDED BY	JCV		
WITNESSED BY			

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

EQUIPMENT	RUN 1	RUN 2	RUN 3	RUN 4
DDI	110			

**REMARKS**

GAMMA RAY CALIPER      BED RESOLUTION DENSITY      SLIMLINE UNIT

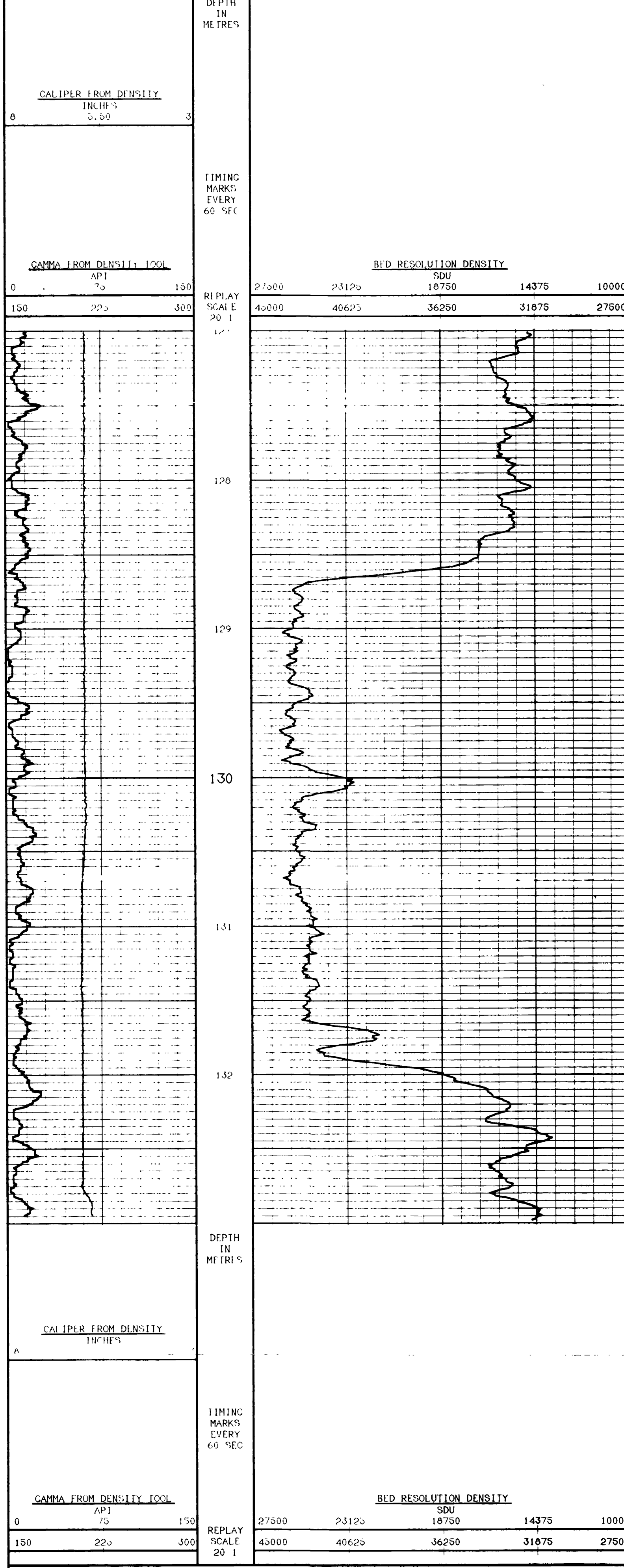
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SYSTEM CONFIGURATION DATA    LOGGED 13-MAR-1992    PROCESSED 13-MAR-1992    PLOTTED

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

**DETAIL LOG**

DEPTH BASED DATA - MAXIMUM SAMPLING INCREMENT 1CM.      RECORDED ON 13-APR-1992 AT 9 47  
 FILENAME DD3A025A.C1B      RUN ID DETAIL LOG      PLOTTED ON 13-APR-1992 AT 11 35



DEPTH BASED DATA - MAXIMUM SAMPLING INCREMENT 1CM.      RECORDED ON 13-APR-1992 AT 9 47  
 FILENAME DD3A025A.C1B      RUN ID DETAIL LOG      PLOTTED ON 13-APR-1992 AT 11 35

**DETAIL LOG**

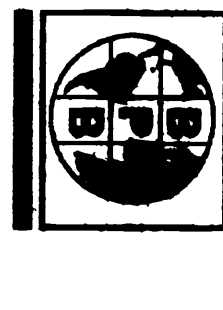
COMPANY	BRINCO COAL MINING CORP.
WELL	92-025
FIELD	QUINSAM
PROVINCE/COUNTY	BRITISH COLUMBIA
COUNTRY/STATE	CANADA











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

LOCATION CAMPBELL RIVER PRVNC/CO. BRITISH COLUMBIA WELL QUINSAM FIELD 92-021 COMPANY BRINCO COAL MINING CORP. PROVINCE/COUNTY BRITISH COLUMBIA COUNTRY/STATE CANADA	LOCATION CAMPBELL RIVER OTHER SERVICES H.F. DILLM-1HR
PERMANENT DATUM LOC MEASURED FROM CL DRILLING MEASURED FROM CL DATE 2-APR-92 RUN NUMBER ONE DEPTH-DRILLER 141.5 M DEPTH-COCCER 132.0 M FIRST READING 132.0 M LAST READING 26.7 M CASING-DRILLER 24.0 M BIT SIZE 5.5"	ELEVATION 319.995 M ABOVE PERMANENT DATUM CL 319.995 M CL 319.995 M
HOLE FLUID TYPE WATER DENS. VISC. 1.1 N/A PVT/LIQUID LOSS N/A SAMPLE SOURCE N/A RMC @ MEAS TERM RMC @ MEAS TERM SOURCE RMT/RMC RMC @ BIT LINE STICK CLRC HOX REC TRM EQUIPMENT/RSN. 2795 - RIBLER RECORDED BY JCV ATTENDED BY	

RUN NUMBER	BOREHOLE RECORD		CASING RECORD				
	BIT	FROM	TO	SIZE	WEIGHT	FROM	TO
ONE	3.9"	121.3 M	141.5 M	7"		0	26.7 M

**REMARKS**

GAMMA RAY CALIPER LONG SPACED DENSITY SLIMLINE UNIT

N 153 543 270 I 150 492 0 0

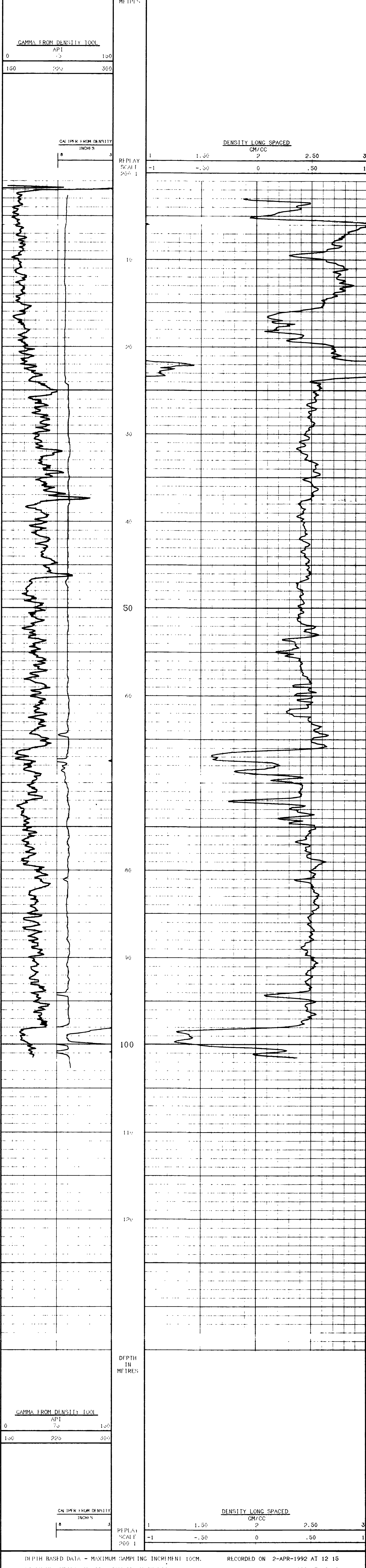
HOLE KEPT FALLING IN AT 98 METERS DUE TO HOLE CONDITIONS NO REPEAT SECTION.

SYSTEM CONFIGURATION DATA'S LOGGED      PROCESSED      PLOTTED

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**MAIN LOG**

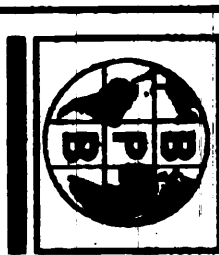
DEPTH BASED DATA - MAXIMUM SAMPLING INCREMENT 10CM.      RECORDED ON 2-APR-1992 AT 12 15  
 FILENAME MRGE021M.CIB      RUN ID MAIN LOG      PLOTTED ON 02-APR-1992 AT 12 49



DEPTH BASED DATA - MAXIMUM SAMPLING INCREMENT 10CM.      RECORDED ON 2-APR-1992 AT 12 15  
 FILENAME MRGE021M.CIB      RUN ID MAIN LOG      PLOTTED ON 02-APR-1992 AT 12 49

**MAIN LOG**

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



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

COMPANY BRINCO COAL MINING CORP.  
WELL 92-022  
FIELD QUINSAM

PROVINCE/COUNTY BRITISH COLUMBIA  
COUNTRY/STATE CANADA

LOCATION CAMPBELL RIVER  
PRVNC/CO. BRITISH COLUMBIA  
FIELD QUINSAM

WELL 92-022  
FIELD QUINSAM  
PROVINCE/COUNTY BRITISH COLUMBIA  
COUNTRY/STATE CANADA

COMPANY BRINCO COAL MINING CORP.  
WELL 92-022  
FIELD QUINSAM

PROVINCE/COUNTY BRITISH COLUMBIA  
COUNTRY/STATE CANADA

LOCATION CAMPBELL RIVER  
PRVNC/CO. BRITISH COLUMBIA  
FIELD QUINSAM

WELL 92-022  
FIELD QUINSAM  
PROVINCE/COUNTY BRITISH COLUMBIA  
COUNTRY/STATE CANADA

COMPANY BRINCO COAL MINING CORP.  
WELL 92-022  
FIELD QUINSAM

PROVINCE/COUNTY BRITISH COLUMBIA  
COUNTRY/STATE CANADA

DATE 2-APR-92

DATE 2-APR-92

PERMANENT DATA	CL	ELEVATION 301.302 M	KB	ELEVATIONS:
LOG MEASURED FROM	CL	ABOVE PERMANENT DATUM	CL	301.402 M
DRILLING MEASURED FROM	CL		CL	301.402 M
DATE	2-APR-92			
WELL NUMBER	92-022			
DEPTH-DRILLER	134.4 M			
DEPTH-COCHR	134.0 M			
FIRST READING	134.0 M			
LAST READING	6.0 M			
CASING-DRILLER	6.0 M			
CASING-COCHR	6.0 M			
BIT SIZE	5.5"			
HOLE FLUID TYPE	WATER			
DENS. VISC.	1.1			
PH/FLUID LOSS	N/A			
SAMPLE SOURCE	N/A			
RH @ NEARS TEMP				
RH @ NEARS TEMP				
SOURCE RH/RH/TEMP				
RH @ BIT				
TIME SINCE CING				
LOG REC. TENSE	YES			
RECORDING DEVICE	YES			
WITNESSED BY	JCA			

RUN NUMBER	BOREHOLE RECORD			CASING RECORD			
	BIT	FROM	TO	SIZE	WEIGHT	FROM	TO
ONE	5.5"	76.1 M	134.4 M	7"		0	6.0 M

EQUIPMENT	RUN 1	RUN 2	RUN 3	RUN 4
DD1	110			

**REMARKS**

GAMMA RAY CALIPER LONG SPACED DENSITY SLIMLINE UNIT

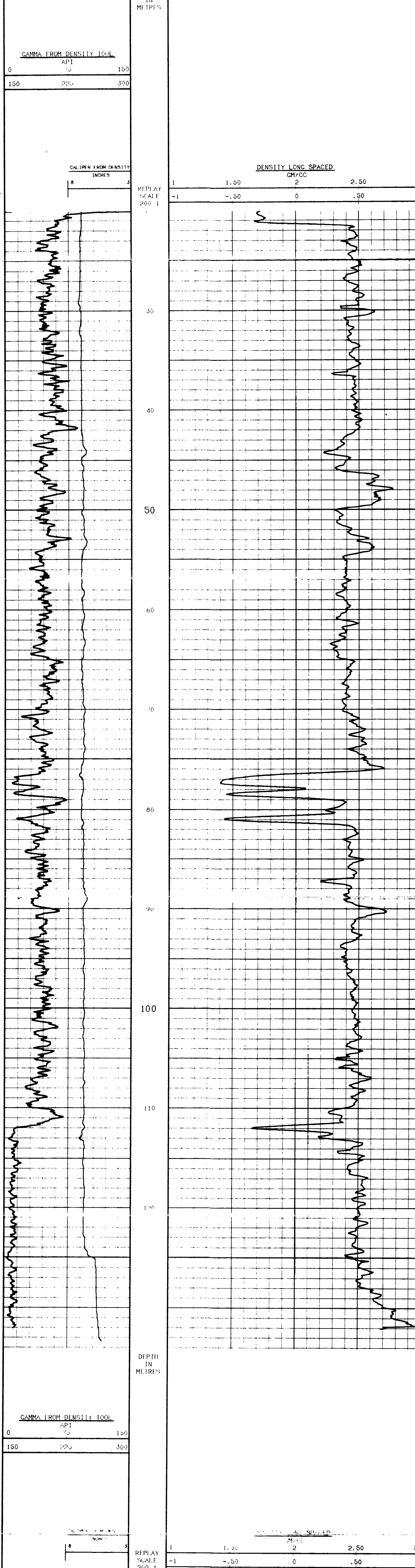
N 102 143.553 I 100 690.600

SYSTEM CONFIGURATION DATES LOGGED PROCESSED PLOTTED

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

**MAIN LOG**

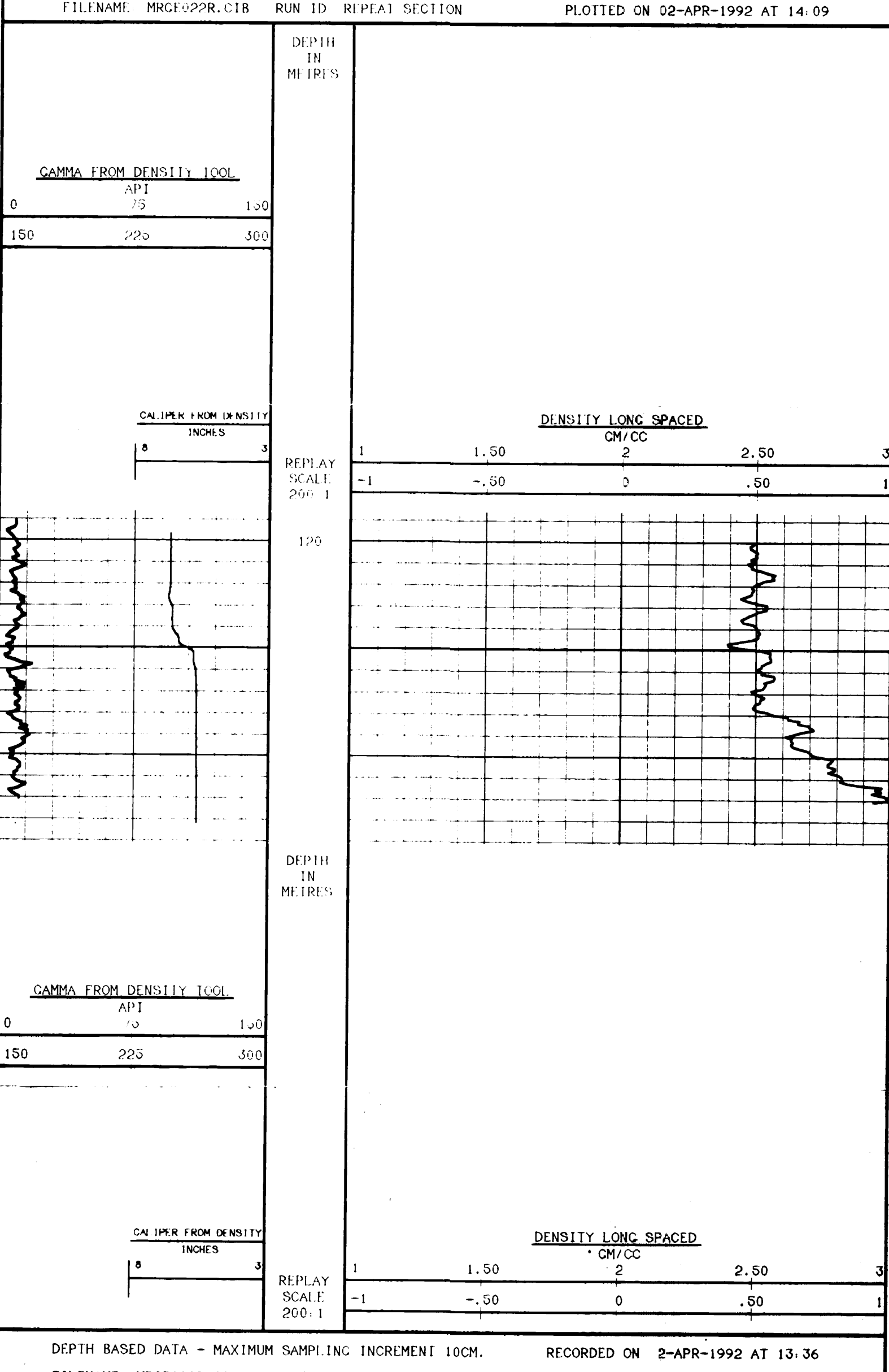
DEPTH BASED DATA - MAXIMUM SAMPLING INCREMENT 10CM. RECORDED ON 2-APR-1992 AT 13:46  
FILENAME MRGE022M.CIB RUN ID MAIN LOG PLOTTED ON 02-APR-1992 AT 14:09



DEPTH BASED DATA - MAXIMUM SAMPLING INCREMENT 10CM. RECORDED ON 2-APR-1992 AT 13:46  
FILENAME MRGE022M.CIB RUN ID MAIN LOG PLOTTED ON 02-APR-1992 AT 14:09

**REPEAT SECTION**

DEPTH BASED DATA - MAXIMUM SAMPLING INCREMENT 10CM. RECORDED ON 2-APR-1992 AT 13:36  
FILENAME MRGE022R.CIB RUN ID REPEAT SECTION PLOTTED ON 02-APR-1992 AT 14:09



DEPTH BASED DATA - MAXIMUM SAMPLING INCREMENT 10CM. RECORDED ON 2-APR-1992 AT 13:36  
FILENAME MRGE022R.CIB RUN ID REPEAT SECTION PLOTTED ON 02-APR-1992 AT 14:09

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





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

LOCATION	CAMPBELL RIVER	PROVINCE/COUNTRY	BRITISH COLUMBIA
WELL	92-023	FIELD	QUINSAM
COMPANY	BRINCO COAL MINING CORP.	PROVINCE/COUNTRY	BRITISH COLUMBIA
DATE	2-APR-92	COUNTRY/STATE	CANADA
PERMANENT DATUM	C.L.	OTHER SURVEYS	F.H. DIPKHEER
LOG MEASURED FROM	CL	ELEVATION	306.903 M
DRILLING MEASURED FROM	CL	AROUND PERMANENT DATUM	CL 300.983 M
RUN NUMBER	01	DEPTH-LOGGER	83.4 M
DEPTH-LOGGER	83.4 M	FIRST READING	0
LAST READING	0	CASING-DRILLER	5.3 M
CASING-LOGGER	6.0 M	BIT SIZE	5.3"
HOLE FLUID TYPE	WATER	DENS. / VISC.	1.1 / N/A
DENS. / VISC.	1.1 / N/A	HYDRAULIC LOSS	N/A
SAMPLE SOURCE	N/A	RH @ MEAS TEMP	
RH @ MEAS TEMP		RH @ MEAS TEMP	
RH @ MEAS TEMP		SOURCE	RH/FH/BC
SOURCE	RH/FH/BC	TIME SINCE CIRC	
TIME SINCE CIRC		MAX REC TEMP	
MAX REC TEMP		RECORDED BY	V223 REDEBER
RECORDED BY	V223 REDEBER	WITNESSED BY	JCV
WITNESSED BY	JCV		

RUN NUMBER	BORHOLE RECORD			CASING RECORD			
	BIT	FROM	TO	SIZE	WEIGHT	FROM	TO
ONE	5.3"	36.6 M	84.3 M	7"		0	5.3 M

EQUIPMENT	RUN 1	RUN 2	RUN 3	RUN 4
DDI	110			

**REMARKS**

CAMMA RAY CALIPER LONG SPACED DENSITY SLIMLINE UNIT

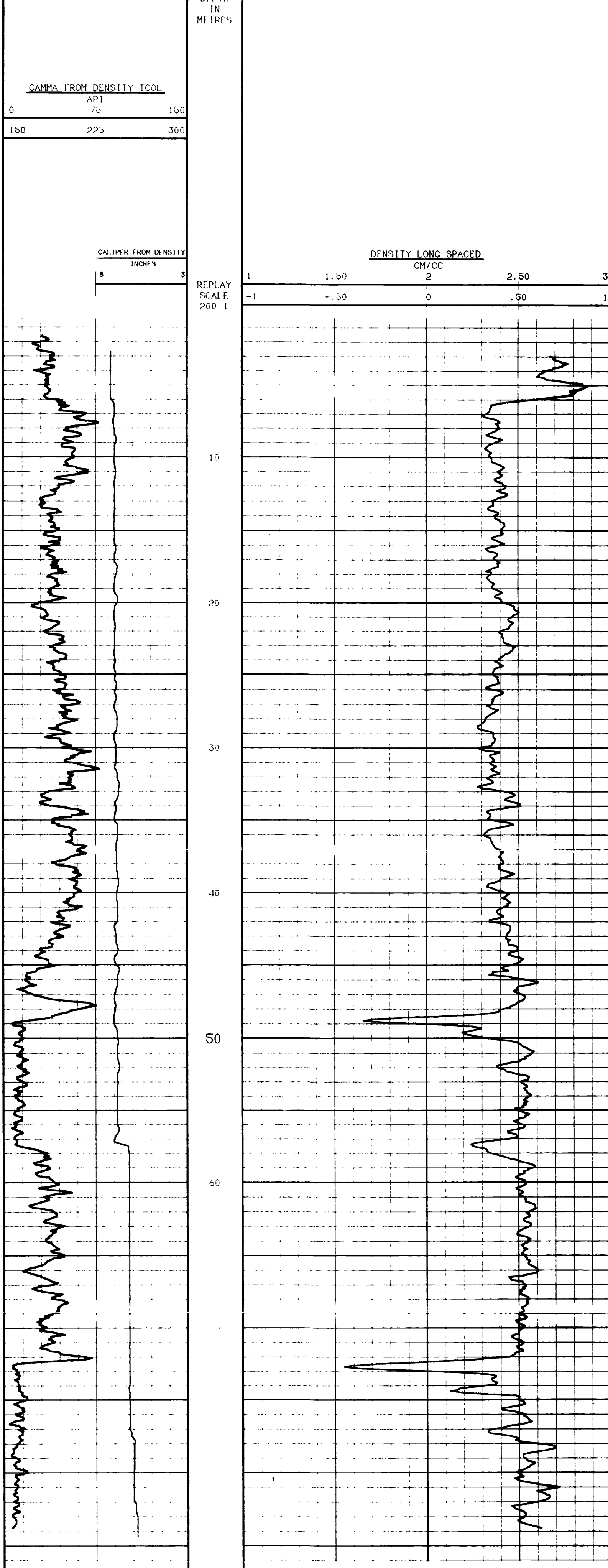
N 102 223.846 E 99 390.849

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 LOSS OF PROFITS, DAMAGES OR EXPENSES INCURRED OR SUSTAINED BY ANYONE RESULTING FROM ANY INTERPRETATION MADE BY ANY OF OUR OFFICERS, AGENTS OR EMPLOYEES. THESE INTERPRETATIONS ARE ALSO SUBJECT TO OUR GENERAL TERMS AND CONDITIONS IN OUR PRICE SCHEDULE.

**MAIN LOG**

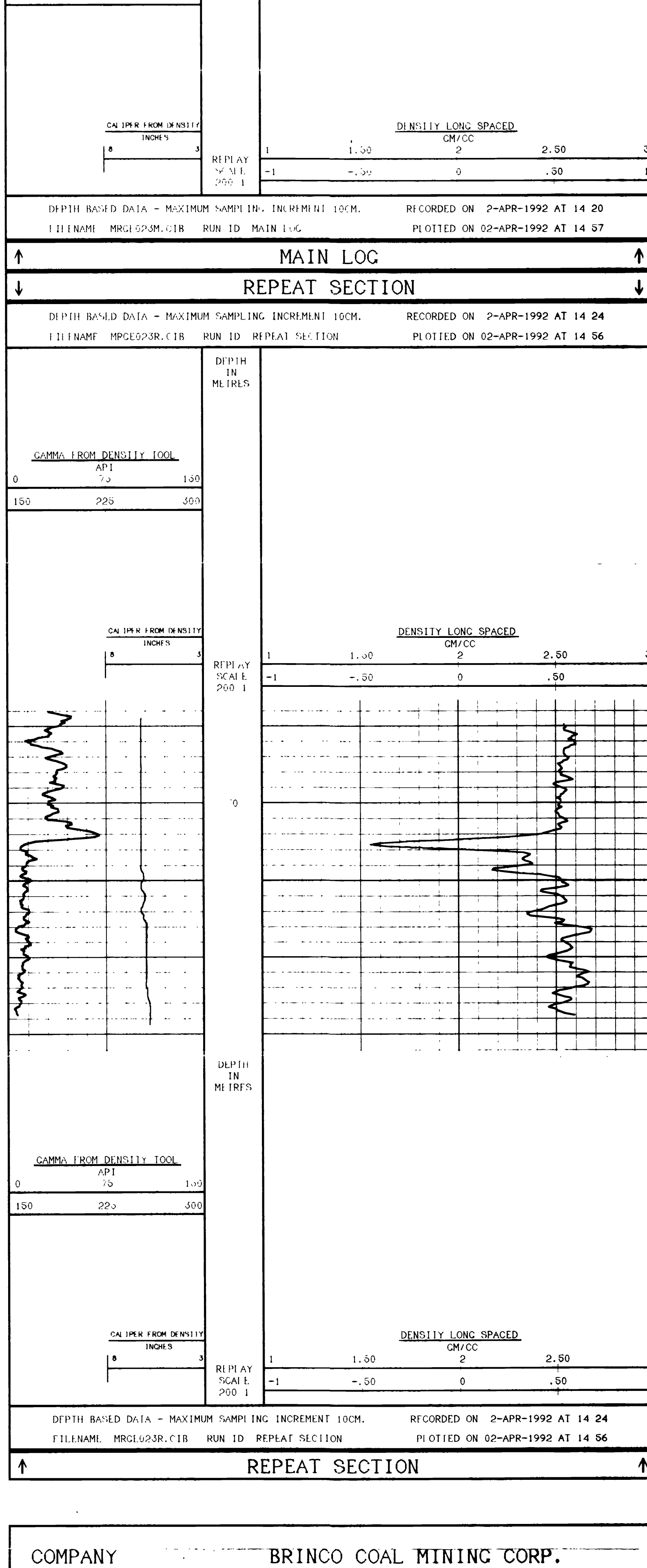
DEPTH BASED DATA - MAXIMUM SAMPLING INCREMENT 10CM. RECORDED ON 2-APR-1992 AT 14 20  
 FILENAME MRG1023M.CIB RUN ID MAIN LOG PLOTTED ON 02-APR-1992 AT 14 57



DEPTH BASED DATA - MAXIMUM SAMPLING INCREMENT 10CM. RECORDED ON 2-APR-1992 AT 14 20  
 FILENAME MRG1023M.CIB RUN ID MAIN LOG PLOTTED ON 02-APR-1992 AT 14 57

**REPEAT SECTION**

DEPTH BASED DATA - MAXIMUM SAMPLING INCREMENT 10CM. RECORDED ON 2-APR-1992 AT 14 24  
 FILENAME MPCE023R.CIB RUN ID REPEAT SECTION PLOTTED ON 02-APR-1992 AT 14 56



DEPTH BASED DATA - MAXIMUM SAMPLING INCREMENT 10CM. RECORDED ON 2-APR-1992 AT 14 24  
 FILENAME MRG1023R.CIB RUN ID REPEAT SECTION PLOTTED ON 02-APR-1992 AT 14 56

COMPANY	BRINCO COAL MINING CORP.
WELL	92-023
FIELD	QUINSAM
PROVINCE/COUNTRY	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	92-024
FIELD	QUINSAM	FIELD	QUINSAM
KELL	92-024	PROVINCE/COUNTY	BRITISH COLUMBIA
COMPANY		COUNTRY/STATE	CANADA
BRINCO COAL MINING CORP.			
LOCATION	CAMPBELL RIVER	OTHER SERVICES	F.E. DILPMEIER
LSD	SEC	TWP	RCE
ELEVATION 309.210 M	CL	CL	CL
PERMANENT DATUM	CL	ELEVATION 309.210 M	CL
LOC. MEASURED FROM	CL	ABOVE PERMANENT DATUM	CL
DRILLING MEASURED FROM	CL	ELEVATIONS	CL
DATE	2-APR-92	CL	309.210 M
RUN NUMBER	ONE		
DEPTH-DRILLER	110.6 M		
DEPTH-COCKER	117.6 M		
FIRST READING	117.6 M		
LAST READING	0		
CASING-DRILLER	6.3 M		
CASING-COCKER	6.3 M		
BIT SIZE	5.5"		
HOFL. FLUID TYPE	WATER		
DENS. VISC.	1.1		
PIV. FLUID LOSS	N/A		
SAMPLE SOURCE	N/A		
RHT @ MEAS. TEMP			
RHC @ MEAS. TEMP			
SOURCE RHT/RHC			
RHT @ BIT			
RHC @ BIT			
LINE SCALE CLRS			
EXACT REC. TIME			
RECORDED BY	WZS3		
WITNESSED BY	JCV		

BOREHOLE RECORD				CASING RECORD			
RUN NUMBER	BIT	FROM	TO	SIZE	WEIGHT	FROM	TO
ONE	5.5"	99.2 M	110.6 M	7"		0	6.3 M
EQUIPMENT		RUN 1	RUN 2	RUN 3	RUN 4		
DD1		110					

**REMARKS**

GAMMA RAY CALIPER LONG SPACED DENSITY SLIMLINE UNIT

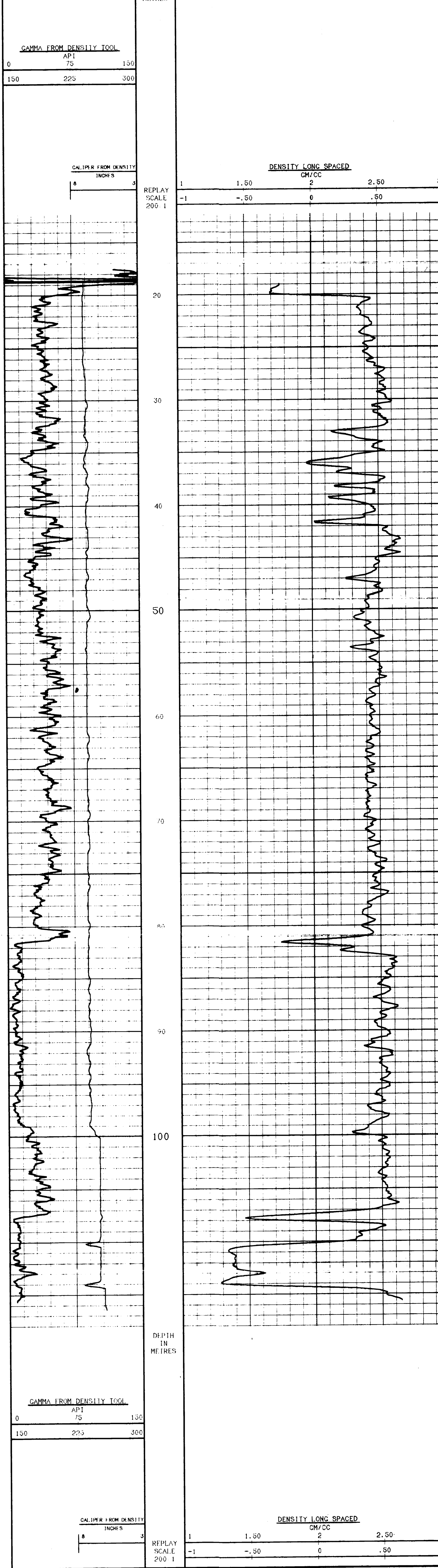
N 102 902.200 F 100.346.150

SYSTEM CONFIGURATION DATES LOGGFD PROCESSED PLOTTED

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

**MAIN LOG**

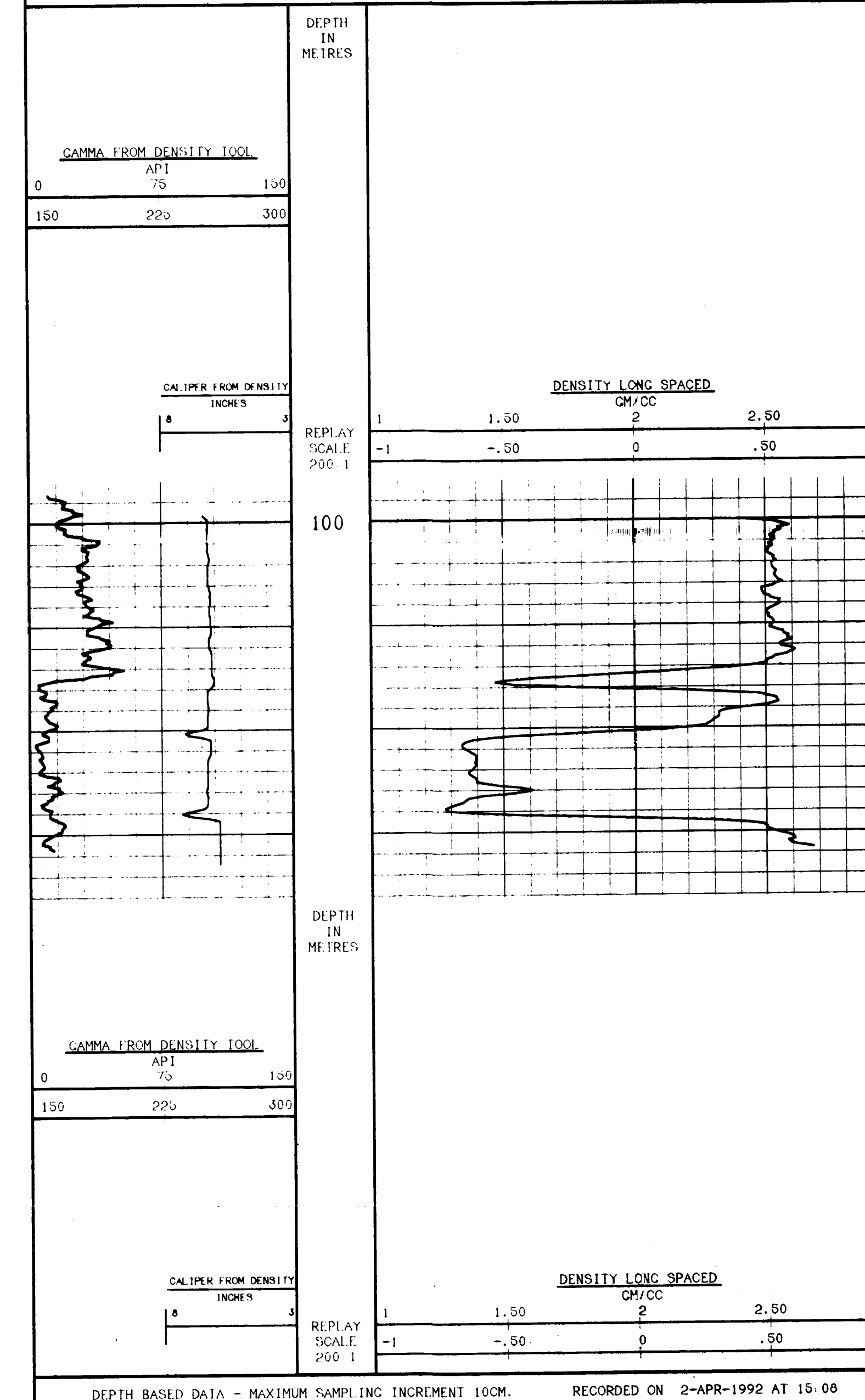
DEPTH BASED DATA - MAXIMUM SAMPLING INCREMENT 10CM. RECORDED ON 2-APR-1992 AT 15:10  
 FILENAME MRCE024M.C1B RUN ID MAIN LOG PLOTTED ON 02-APR-1992 AT 15:35



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

**MAIN LOG**

DEPTH BASED DATA - MAXIMUM SAMPLING INCREMENT 10CM. RECORDED ON 2-APR-1992 AT 15:06  
 FILENAME MRCE024R.C1B RUN ID REPEAT SECTION PLOTTED ON 02-APR-1992 AT 15:35



DEPTH BASED DATA - MAXIMUM SAMPLING INCREMENT 10CM. RECORDED ON 2-APR-1992 AT 15:06  
 FILENAME MRCE024R.C1B RUN ID REPEAT SECTION PLOTTED ON 02-APR-1992 AT 15:35

**REPEAT SECTION**

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





2108 - 1 STREET NW  
CALGARY, ALBERTA  
(403) 276-4489

**GAMMA RAY  
CALIPER**

**RESISTANCE  
DENSITY**

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

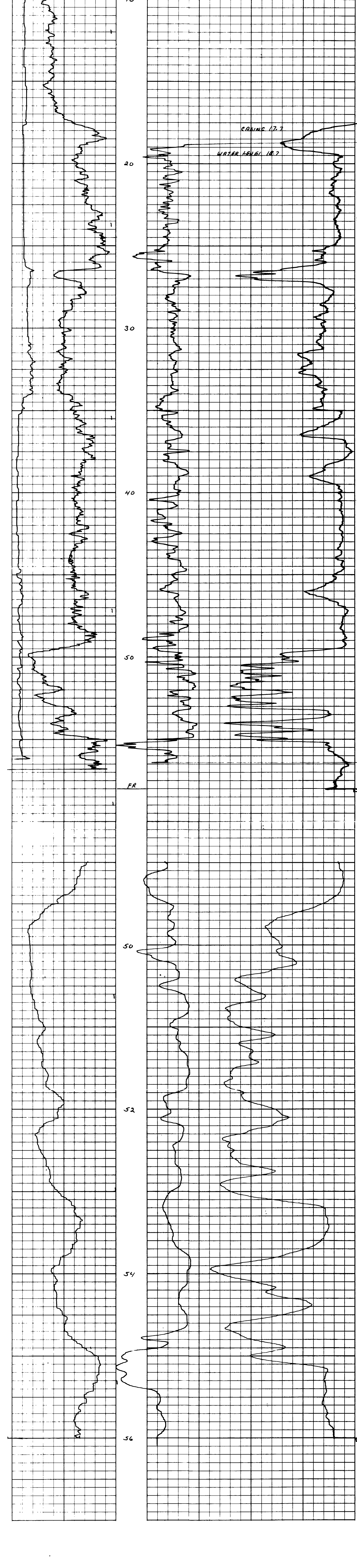
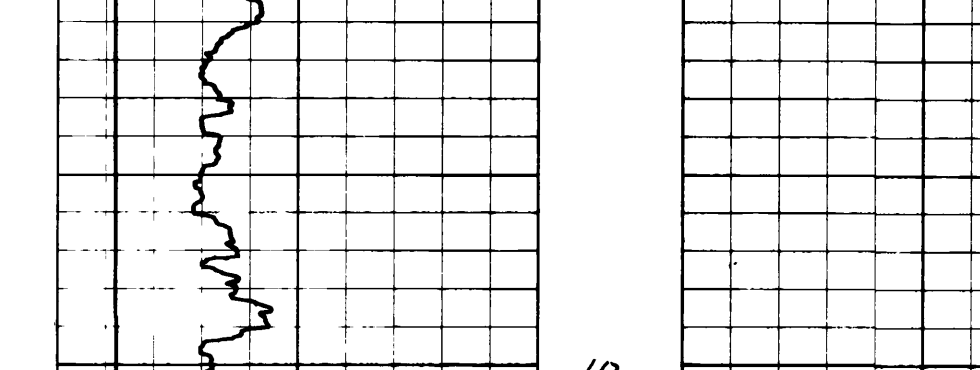
COMPANY BEARCO COAL LIMITED 6282  
WELL 92-224 Mile A 101.036.980  
LOCATION BT 7.5 E 100.570.585  
FIELD QUINSEAN  
PROVINCE B.C.

Permanet Datum \_\_\_\_\_ GROUND LEVEL \_\_\_\_\_ Elev. \_\_\_\_\_  
Log Measured From \_\_\_\_\_ G.L. \_\_\_\_\_ Above Perm. Datum \_\_\_\_\_  
Well Depth Measured From \_\_\_\_\_ G.L. 574.933

Run No. 1  
Date 1 OCT 92  
First Reading 5.8  
Last Reading 5.6  
Footage Logged 0  
Footage Logged 4.9  
Depth Reached 5.8  
Depth Chier 5.8  
Clamp Electrodg 1.7.7  
Clamp Ohler \_\_\_\_\_  
Fluid Type WATER  
Liquid Level 18.7  
Min Diameter 1/4 IN  
Operating Time 1.5 HR  
Truck No \_\_\_\_\_  
Recorded By \_\_\_\_\_ Witnessed By LEHNER

Inst Truck No 1  
Location CANADIAN RIVER

GENERAL		GAMMA-RAY				DENSITY			
RUN NO	DEPTHS	T.C.	SENS.	ZERO	API UNITS	T.C.	SENS.	ZERO	CPS/DIV
FROM	TO	SEC	SETTINGS	DIV.L OR R.	PER LOG DIV	SEC.	SETTINGS	DIV.L OR R.	
1	0 - 5.8	4	50	0	8 API	2	1X	2.4	85 cps

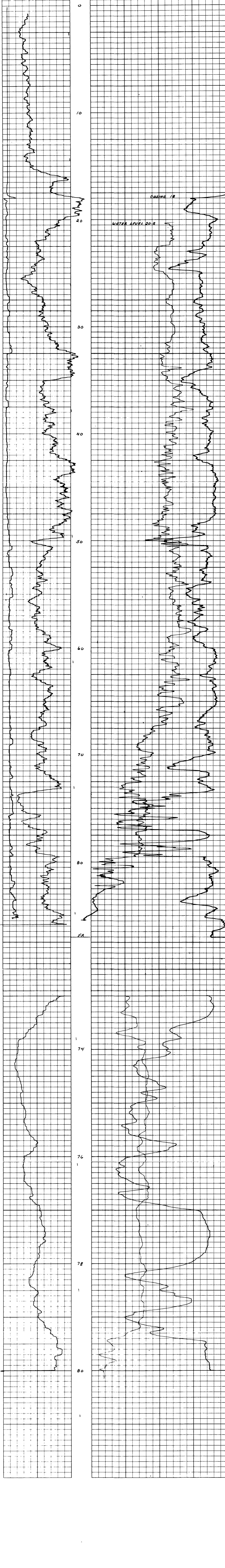




2108 - STREET NW CALGARY, ALBERTA (403) 278-4488		<b>GAMMA RAY</b> <b>CALIPER</b>		<b>RESISTANCE</b> <b>DENSITY</b>	
LSD _____ SEC _____ TWP _____ RGE _____ W _____ M	COMPANY <u>ABRICA COAL TRADING CORP</u> WELL <u>38-027 N 10916-3K6</u> LOCATION <u>R1 T5 E 000 4851 38V</u> FIELD <u>BRISBEN (Main Field)</u> PROVINCE <u>ALTA</u> LSD _____ SEC _____ TWP _____ RGE _____ W _____	PERMANENT DATUM _____ GROUND LEVEL _____ Elev. _____ Log Measured From _____ <u>G.L.</u> Above Perm. Datum _____ Well Depth Measured From _____ G.L. <u>307.320</u>	Run No. <u>1</u> Date <u>1 Oct 82</u> Firm Reading <u>87</u> Last Reading <u>87</u> Footage Logged <u>0</u> Depth Reached <u>82</u> Depth Driller <u>82</u> Casing Electrod <u>18</u> Casing Driller <u>U/REK</u> Fluid Type <u>20.3</u> Min. Diameter <u>1/4"</u> Operating Time <u>1</u> Truck No. <u>SLD</u> Witnessed By <u>LEH TIGER</u>	Other Services _____ Elev. AB _____ CSD _____ G.L. <u>307.320</u>	

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

LOGGING DATA									
GENERAL			GAMMA RAY				DENSITY		
RUN NO.	DEPTHS	SPEED	TC	SENS	ZERO	API UNITS	TC	SENS	ZERO
1	FROM TO	7 MIN	SEC	SETTINGS	DIV L OR R	PER LOG DIV	SEC	SETTINGS	DIV L OR R
1	0 82	4	4	50	0	8 API	2	1K	36
Remarks _____									
Inst. Truck No. <u>1</u>									
Location <u>CRIPPER / RUMBA</u>									



**ELECTROLOG**  
 2108 - 1 STREET N.W.  
 CALGARY, ALBERTA  
 (403) 266-8888

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

COMPANY BRIDCO COAL MINING CORP  
 WELL 92-028 Mine N / 109 E22. Sec 2  
 LOCATION N 1 T5 E 109 R26 S34  
 FIELD QUINSEEN  
 PROVINCE ALBERTA  
 LSD \_\_\_\_\_ SEC \_\_\_\_\_ TYP \_\_\_\_\_ RGE \_\_\_\_\_ W \_\_\_\_\_

Permanent Datum \_\_\_\_\_ GROUND LEVEL \_\_\_\_\_ Elev. \_\_\_\_\_  
 Log Measured From \_\_\_\_\_ 6.7 Above Perm. Datum  
 Well Depth Measured From \_\_\_\_\_ Elev. KB \_\_\_\_\_  
 \_\_\_\_\_ CGG \_\_\_\_\_  
 \_\_\_\_\_ G.L. 322-427

Run No. \_\_\_\_\_ Date 1 OCT 82 51800000  
 First Reading 104 102  
 Last Reading 0 94

Footage Logged 104  
 Depth Reached 104  
 Resist. Dialer 104  
 Casing Electrolog 85.6  
 Casing Diameter \_\_\_\_\_  
 Fluid Type WATER  
 Fluid Level 85.6  
 Min. Diameter 74.0  
 Opening Time 1/4 hr  
 Truck No. \_\_\_\_\_  
 Recorded By SLW Witnessed By LETTICIA

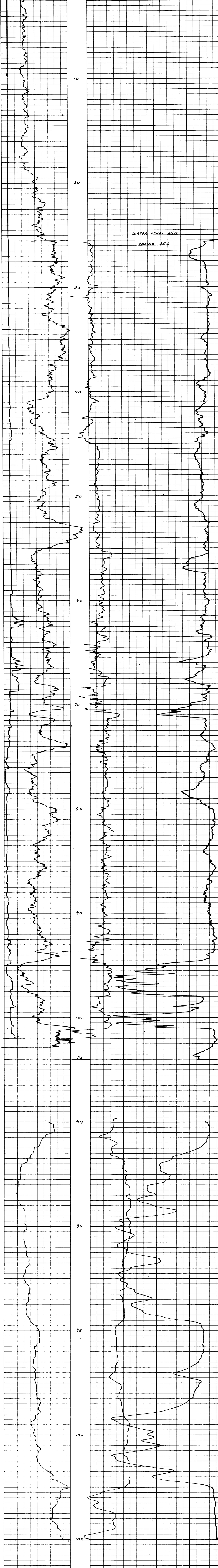
**EQUIPMENT DATA**

	GAMMA RAY	RESISTANCE	DENSITY	CALIPER
Run No.	1	1	1	1
Tool Model No.	L-103	L-103	L-103	L-103
Diameter	32 mm	32 mm	32 mm	32 mm
Type	SCINT	E	FOCUSED	EM
Spacing				
Length	75 cm	5 cm	5 cm	
Horiz. Scale		<u>25.4 / DIV</u>		
Source			HOVP	
Serial No.			980	
Isotope			AM241	
Strength			82 GBq	

**LOGGING DATA**

RUN NO	GENERAL			GAMMA RAY				DENSITY			
	DEPTHS	TO	SPEED	TC	SENS	ZERO	API UNITS	TC	SENS	ZERO	CPS/DIV
NO	FROM		MIN	SEC	SETTINGS	DIV L OR R	PER LOG DIV	SEC	SETTINGS	DIV L OR R	
1	0	104	4	4	50	0	8 API	2	1X	22	85 CPS

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





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

File No. \_\_\_\_\_  
 COMPANY **BARISA COAL UTILITIES CORP**  
 WELL **92-029 Mid N 109 893.583**  
 TWP **102 S**      LOCATION **R2 T5 E 109 368.201**  
 RGE **M**              FIELD **QUINSMITH**  
 W \_\_\_\_\_      PROVINCE **BC**

Permitted Datum **GROUND LEVEL** Elev. \_\_\_\_\_  
 Log Measured From \_\_\_\_\_ Above Perm. Datum  
 Well Depth Measured From \_\_\_\_\_

Run No. \_\_\_\_\_ / \_\_\_\_\_  
 Date **1 OCT 92**      ESTABLISHED  
 First Reading \_\_\_\_\_ / **102.5**      99  
 Last Reading \_\_\_\_\_ / **106**  
 Footage Logged **0** / **102.5**      7

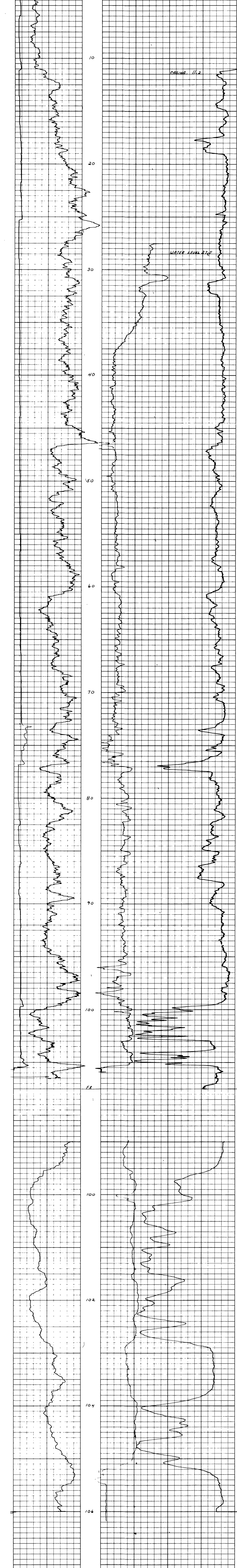
Depth Reached **102.5**  
 Depth Driller **102.5**  
 Logging Electrolog **11.2**  
 Camp Driller \_\_\_\_\_  
 Fluid Type **WATER**  
 Liquid Level **2.5**  
 Max. Diameter **1/4" DIA**  
 Operating Time \_\_\_\_\_  
 Truck No. \_\_\_\_\_  
 Recorded By **SMZ**      Witnessed By **LEITHMAN**

LSD \_\_\_\_\_      TWP \_\_\_\_\_      RGE \_\_\_\_\_      W \_\_\_\_\_  
 Other Services \_\_\_\_\_  
 ELEV. KB \_\_\_\_\_  
 CSG \_\_\_\_\_  
 GL **21.065**

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

LOGGING DATA											
RUN NO	GENERAL DEPTHS		SPEED ft/min	TC SEC	GAMMA-RAY			DENSITY		CPS/DIV	
	FROM	TO			SENS SETTINGS	ZERO DIV L OR R	API UNITS PER LOG DIV	TC SEC	SENS SETTINGS		ZERO DIV L OR R
1	0	102.5	4	4	40	0	8 API	2	11.2	2.6	85 CPS

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



2109 - 1 STREET N.W.  
CALGARY, ALBERTA  
(403) 278-6699

**GAMMA RAY CALIPER**

**RESISTANCE DENSITY**

COMPANY *BARRETT TOOL SERVICES*  
WELL *22-030 Mine N 100, 688-102*  
LOCATION *PIT 15 E 100, 232-499*  
FIELD *GRASSMONT*  
PROVINCE *ALTA*

SEC \_\_\_\_\_ TWP \_\_\_\_\_ RGE \_\_\_\_\_ W \_\_\_\_\_  
LSD \_\_\_\_\_

Permanent Datum \_\_\_\_\_ Elev \_\_\_\_\_  
Log Measured From *6.7* Above Perm. Datum  
Well Depth Measured From \_\_\_\_\_ Elev *48*  
G.L. *308.234*

Run No. *1*  
Date *1 OCT 97* *EX2000020*

First Reading *110* *125*  
Last Reading *0* *93*  
Footage Logged *0* *7*

Depth Reached *110*  
Depth Driller *110*  
Casing Diameter *6.6*  
Fluid Type *WATER*  
Mud Weight *10.2*  
Mud Volume *1.3448*  
Operating Time *1*  
Tool No. *5171*

Recorded By \_\_\_\_\_ Witnessed By *LEITHNER*

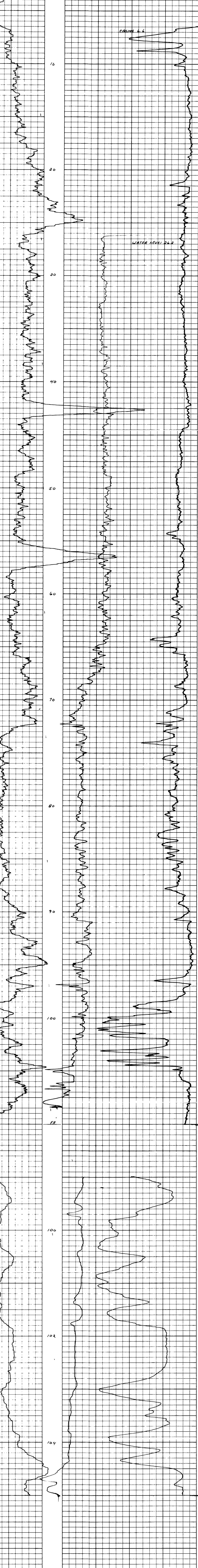
**EQUIPMENT DATA**

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

**LOGGING DATA**

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

Remarks \_\_\_\_\_ General \_\_\_\_\_  
Inst. Truck No. *1*  
Location *CALIBRELL RIVER*





**ELECTROL OIL SERVICES INC.**  
 2109-1 STREET NW  
 CALGARY, ALBERTA  
 (403) 276-4459

**GAMMA RAY CALIPER RESISTANCE DENSITY**

File No \_\_\_\_\_  
 COMPANY BARILLO CORP. / LITHIUMS 0202  
 WELL 92-0312 17th N 100 334-070  
 LOCATION 217 75 E 100 085-163  
 FIELD QUILASNOI  
 PROVINCE BC  
 LSD SEC TWP RGE W \_\_\_\_\_

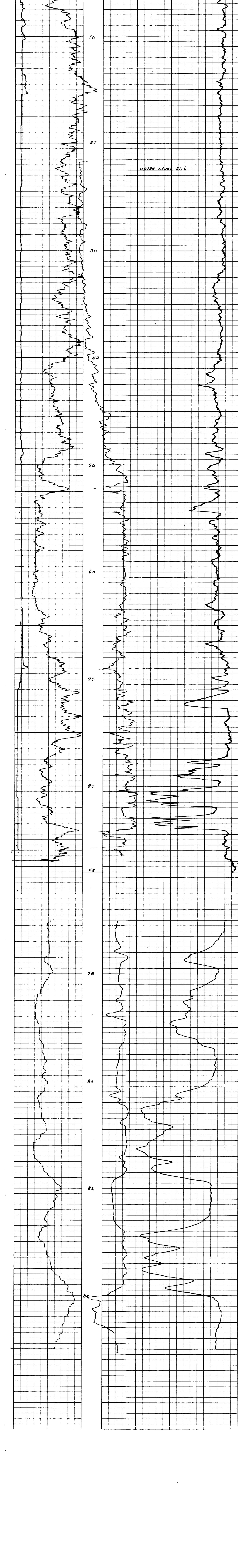
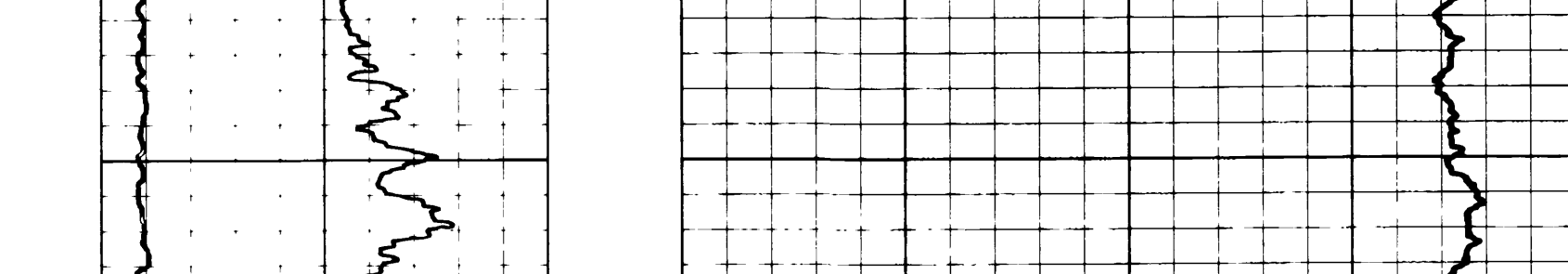
Permanent Datum \_\_\_\_\_ Elev \_\_\_\_\_  
 Log Measured From G.L. Above Perm. Datum  
 Well Depth Measured From \_\_\_\_\_ Elev AB  
 CGS 300 254  
 Run No \_\_\_\_\_ Date 1 OCT 92

First Reading \_\_\_\_\_  
 Last Reading \_\_\_\_\_  
 Footage Logged \_\_\_\_\_  
 Depth Reached 88  
 Depth Driller BB  
 Casing Electrod 2  
 Casing Diaper NAZFE  
 Fluid Type \_\_\_\_\_  
 Main Diameter 2 1/4  
 Operating Time 1 1/4 HR  
 Truck No \_\_\_\_\_  
 Recorded By \_\_\_\_\_ Witnessed By LEITNER

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

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

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



ELECTROLOG		SERVICES INC.	
2109 J STREET NW CALGARY, ALBERTA (403) 276-6486		GAMMA RAY CALIPER	
RESISTANCE DENSITY		COMPANY <i>BEINCO SOIL MINING COOP</i>	
LSD	File No	WELL	<i>92-032 N/100, 278-229</i>
SEC		LOCATION	<i>PIT 75 E 100, 080-189</i>
TWP		FIELD	<i>QUINCY Mine Grid</i>
RGE		PROVINCE	<i>A.S.</i>
W		LSD	SEC _____ TWP _____ RGE _____ W _____
Permanent Datum		GROUND LEVEL	Elev _____
Log Measured From		Above Perm Datum	
Well Depth Measured From		Elev KB _____	CSG _____
		GL <i>303-439</i>	
Run No	<i>1</i>	EXPANDED	
Date	<i>2 OCT 92</i>		
First Reading	<i>84</i>	<i>80</i>	
Last Reading	<i>0</i>	<i>74</i>	
Footage Logged	<i>84</i>	<i>74</i>	
Depth Reached	<i>84</i>		
Depth Driller	<i>84</i>		
Casing Electrolog			
Casing Driller			
Fluid Type	<i>WATER</i>		
Liquid Level	<i>27.6</i>		
Mm Diameter	<i>1/4</i>		
Operating Time	<i>1 1/2 HR</i>		
Truck No	<i>517</i>	Witnessed By	<i>KEATLING</i>
Recorded By			

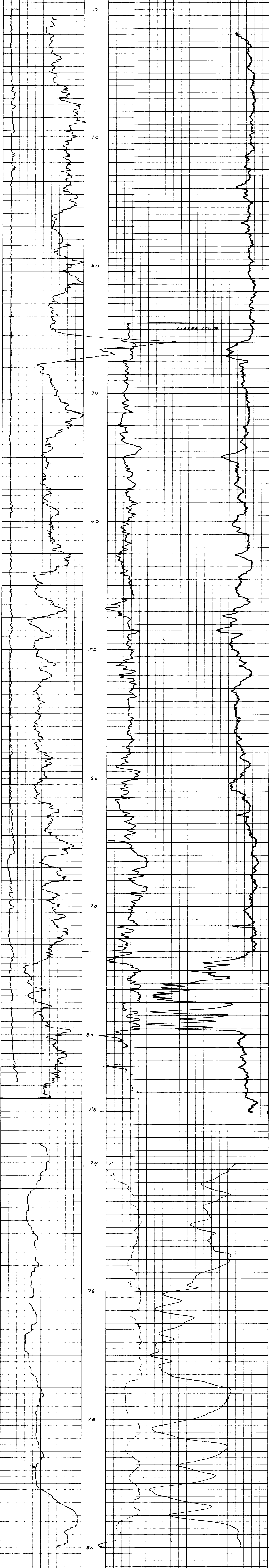
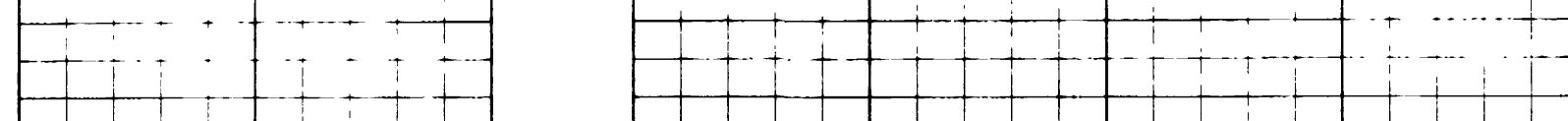
EQUIPMENT DATA			
GAMMA RAY	RESISTANCE	DENSITY	CALIPER
Run No	1	1	1
Tool Model No	L-103	L-103	L-103
Diameter	32 mm	32 mm	32 mm
Type	SCINT	E	FOCUSED
Spacing			EM
Length	75 cm	5 cm	5 cm
Horiz Scale		<i>25 G/DIV</i>	
Source		HOVP	
Serial No		980	
Isotope		AM241	
Strength		.92 GBq	

LOGGING DATA											
GENERAL			GAMMA-RAY				DENSITY				
RUN NO	DEPTHS		SPEED MIN	T/C SEC	SENS SETTINGS	ZERO DIV L OR R	API UNITS PER LOG DIV	T/C SEC	SENS SETTINGS	ZERO DIV L OR R	CPS/DIV
1	0	84	4	4	50	0	800	2	1K	24	85 CPS

Remarks: \_\_\_\_\_

Inst. Truck No: *1*

Location: *CAMPBELL RIVER*





ELECTROLOG

2189 - 1 STREET NW  
CALGARY, ALBERTA  
(403) 278-8839

**GAMMA RAY  
CALIPER**

**RESISTANCE  
DENSITY**

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

COMPANY BALUDA 6081 HILLDALE 6082  
WELL 92-032 Miss N 100 230-339  
LOCATION BT 7-5 E 100 040-177  
FIELD QUINSDALE  
PROVINCE B.C.

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

Permanent Datum \_\_\_\_\_ ELEV \_\_\_\_\_  
GROUND LEVEL \_\_\_\_\_ ELEV \_\_\_\_\_  
Log Measured From 4.7 Above Perm. Datum  
Well Depth Measured From \_\_\_\_\_

Run No. \_\_\_\_\_  
Date \_\_\_\_\_  
First Reading \_\_\_\_\_  
Last Reading \_\_\_\_\_  
Footage Logged \_\_\_\_\_

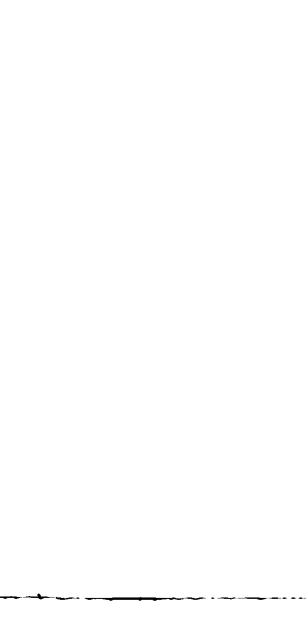
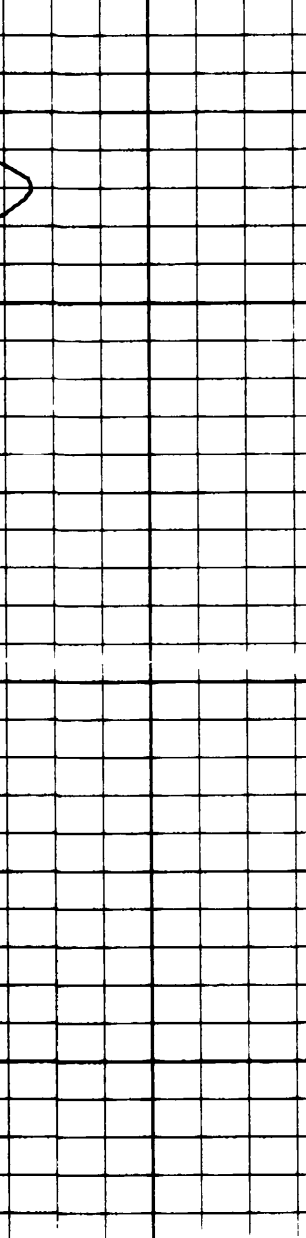
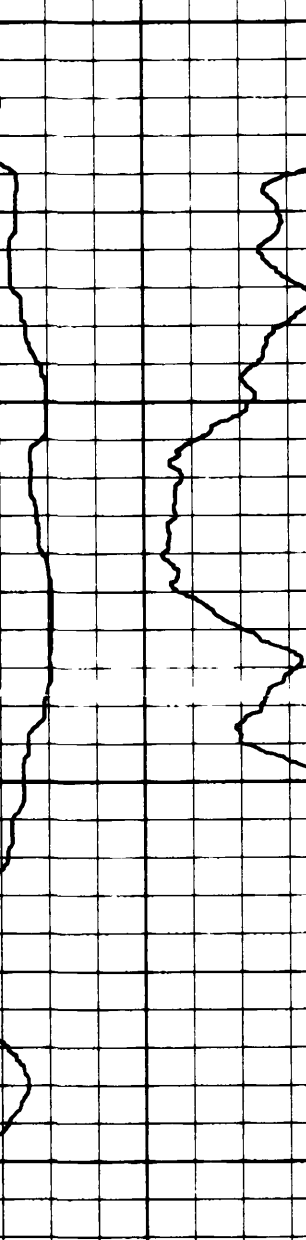
Depth Reached \_\_\_\_\_  
Depth Driller \_\_\_\_\_  
Casing Driller \_\_\_\_\_  
Casing Electrolog \_\_\_\_\_  
Fluid Type \_\_\_\_\_  
Liquid Level \_\_\_\_\_  
Main Diameter \_\_\_\_\_  
Opening Time \_\_\_\_\_  
Truck No. \_\_\_\_\_  
Recorded By \_\_\_\_\_  
Witnessed By KEITZLAR

Elev. NB \_\_\_\_\_  
CSG \_\_\_\_\_  
GL 503.437

Run No. \_\_\_\_\_  
Tool Model No. \_\_\_\_\_  
Diameter \_\_\_\_\_  
Type \_\_\_\_\_  
Spacing \_\_\_\_\_  
Length \_\_\_\_\_  
Horiz. Scale \_\_\_\_\_  
Source \_\_\_\_\_  
Serial No. \_\_\_\_\_  
Isotope \_\_\_\_\_  
Strength \_\_\_\_\_

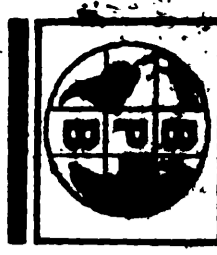
GENERAL  
RUN NO. \_\_\_\_\_  
DEPTHS FROM \_\_\_\_\_ TO \_\_\_\_\_  
SPEED  $\frac{1}{\text{MIN}}$  \_\_\_\_\_  
TC SEC \_\_\_\_\_  
SENS SETTINGS \_\_\_\_\_  
GAMMA RAY  
ZERO DIV L OR R \_\_\_\_\_  
API UNITS PER LOG DIV \_\_\_\_\_  
DENSITY  
TC SEC \_\_\_\_\_  
SENS SETTINGS \_\_\_\_\_  
ZERO DIV L OR R \_\_\_\_\_  
CPS/DIV \_\_\_\_\_

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









**GAMMA RAY  
DIPMETER  
SLIMLINE UNIT**

LOCATION	CAMPBELL RIVER	OTHER SERVICES	DD1
PRVNC/CO.	BRITISH COLUMBIA		
FIELD	QUINSAM		
WELL	92-019		
COMPANY	BRINCO COAL MINING CORP.		
PERMANENT DATUM	CL	ELEVATION	11.1 M
LOG MEASURED FROM	CL	ABOVE PERMANENT DATUM	11.1 M
DATE	2-APR-92		
RUN NUMBER	ONE		
DEPTH-DRILLER	93.3 M		
DEPTH-LOCKER	93.0 M		
FIRST READING	93.0 M		
LAST READING	0		
CASING-DRILLER	18.4 M		
CASING-LOCKER	18.4 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			
RHC @ MEAS TEMP			
RM @ MEAS TEMP			
RM @ BHT			
TIME SINCE CIRC			
MAX REC TEMP			
EQUIPMENT/BASE	V223 REDDER		
RECORDED BY	JCV		
WITNESSED BY			

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

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

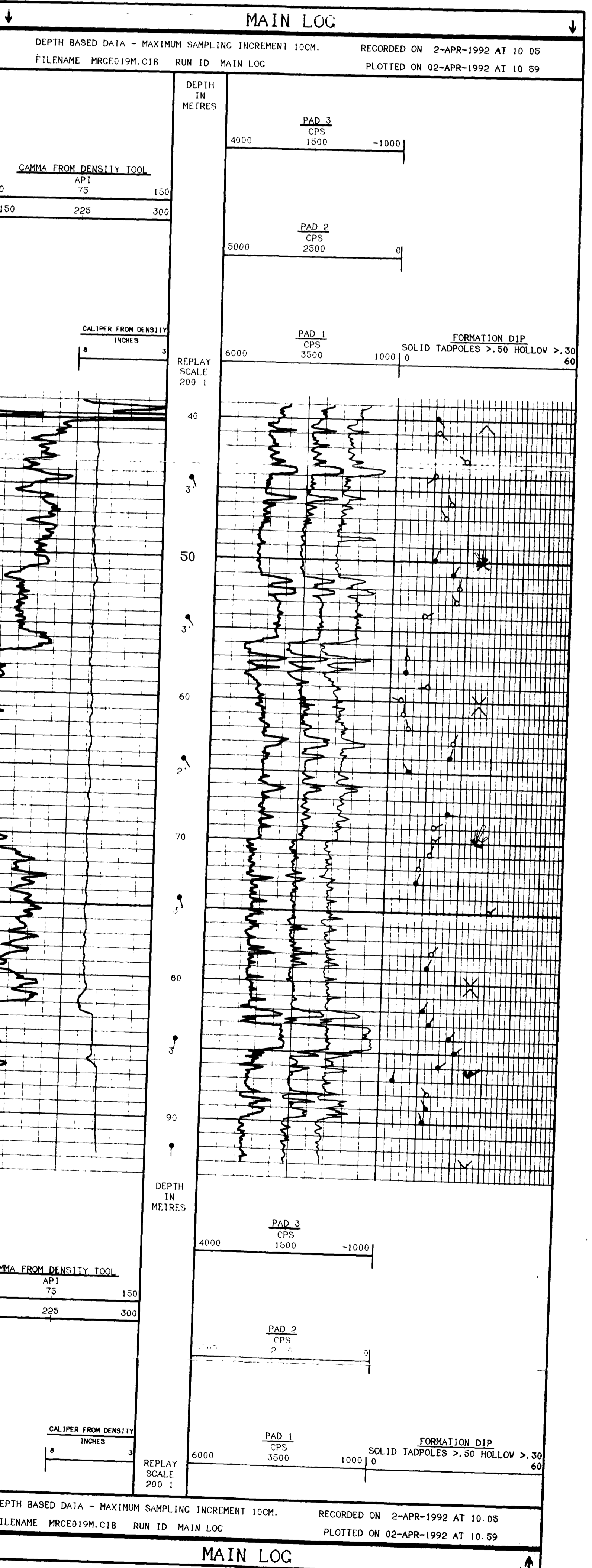
**REMARKS**

GAMMA RAY                      DIPMETER                      SLIMLINE UNIT

N 102 391.957      F 100 002.094

SYSTEM CONFIGURATION DATES    LOGGED                      PROCESSED                      PLOTTED

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



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



**CAMMA RAY  
DIPMETER  
SLIMLINE UNIT**

LOCATION	CAMPBELL RIVER	PROVINC/CO.	BRITISH COLUMBIA	FIELD	QUINSAM
WELL	92-020	COMPANY	BRINCO COAL MINING CORP.	PROVINCE/COUNTY	BRITISH COLUMBIA
PERMANENT DATUM	CL	ELEVATION	292.607 M	PROVINCE/COUNTY	BRITISH COLUMBIA
LOC MEASURED FROM	CL	ELEVATION	292.607 M	COUNTRY/STATE	CANADA
DRILLING MEASURED FROM	CL	ELEVATIONS	KB CL 292.607 M	OTHER SERVICES	DD1 FE
DATE	2-APR-92	PERMANENT DATUM	CL	LOCATION	CAMPBELL RIVER
RUN NUMBER	ONE	LOC MEASURED FROM	CL	SEC	
DEPTH-DRILLER	93.0 M	DRILLING MEASURED FROM	CL	TYP	
DEPTH-LOGGER	94.0 M	DATE	2-APR-92	RCE	
FIRST READING	94.0 M	RUN NUMBER	ONE		
LAST READING	0	DEPTH-DRILLER	93.0 M		
CASING-DRILLER	17.7 M	DEPTH-LOGGER	94.0 M		
CASING-LOGGER	17.7 M	FIRST READING	94.0 M		
BIT SIZE	5.5"	LAST READING	0		
HOLE FLUID TYPE	WATER	CASING-DRILLER	17.7 M		
DENS. VISC.	1.1	CASING-LOGGER	17.7 M		
PIV/UID LOSS	N/A	BIT SIZE	5.5"		
SAMPLE SOURCE	N/A	HOLE FLUID TYPE	WATER		
RM @ MEAS TEMP		DENS. VISC.	1.1		
RM @ MEAS TEMP		PIV/UID LOSS	N/A		
RMC @ MEAS TEMP		SAMPLE SOURCE	N/A		
SOURCE: RMH/RMC		RM @ MEAS TEMP			
RM @ BIT		RMC @ MEAS TEMP			
TIME SINCE CIRG		SOURCE: RMH/RMC			
MAX REC TEMP		RM @ BIT			
EQUIPMENT/BASE	V233 REDEFER	TIME SINCE CIRG			
RECORDED BY	JCV	MAX REC TEMP			
WITNESSED BY		EQUIPMENT/BASE	V233 REDEFER		

RUN NUMBER	BOREHOLE RECORD			CASING RECORD			
	BIT	FROM	TO	SIZE	WEIGHT	FROM	TO
ONE	5.5"	83.2 M	93.0 M	7"		0	17.7 M

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

**REMARKS**

CAMMA RAY                      DIPMETER                      SLIMLINE UNIT

N 102.600.331    E 100.600.094

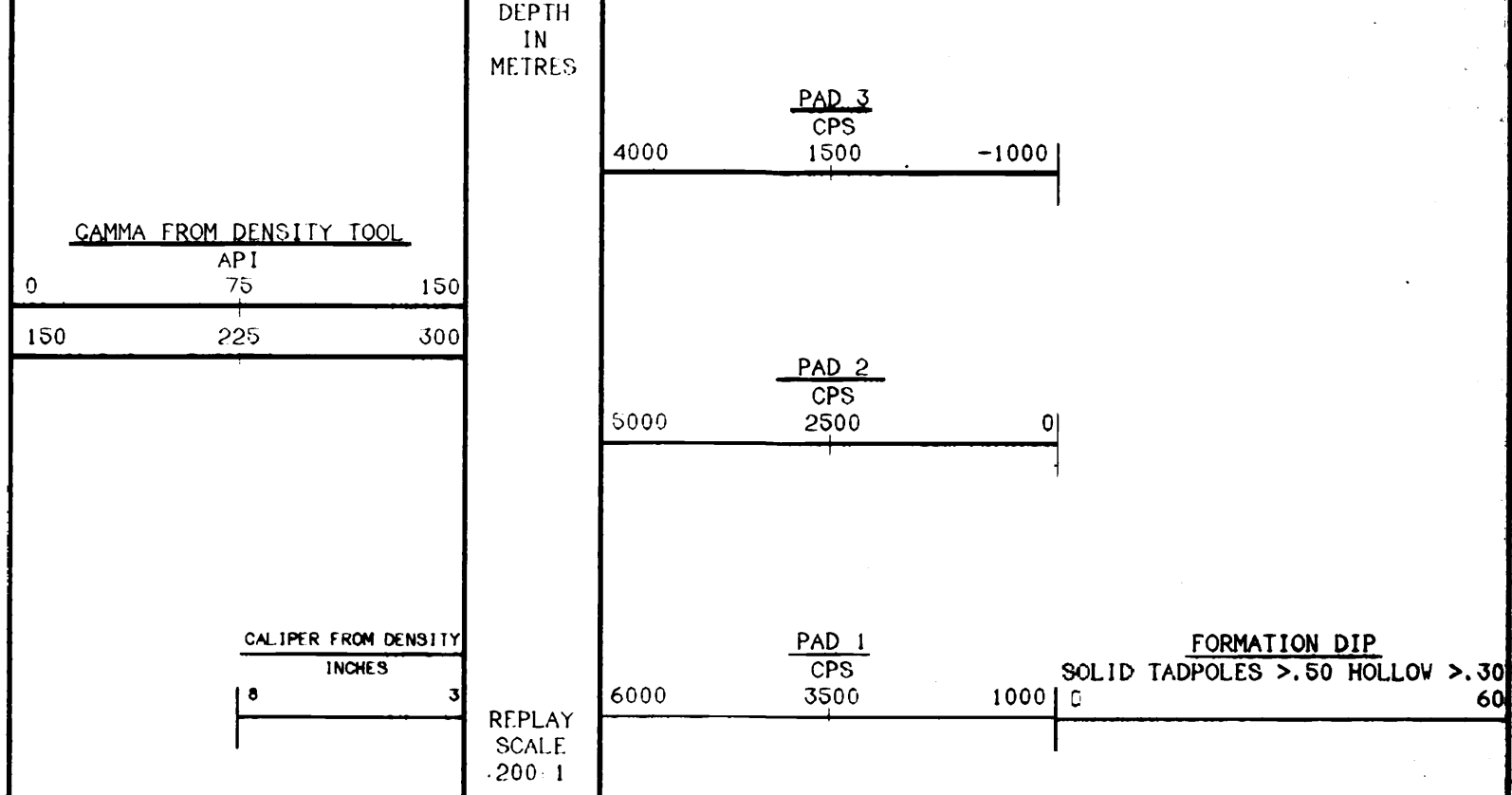
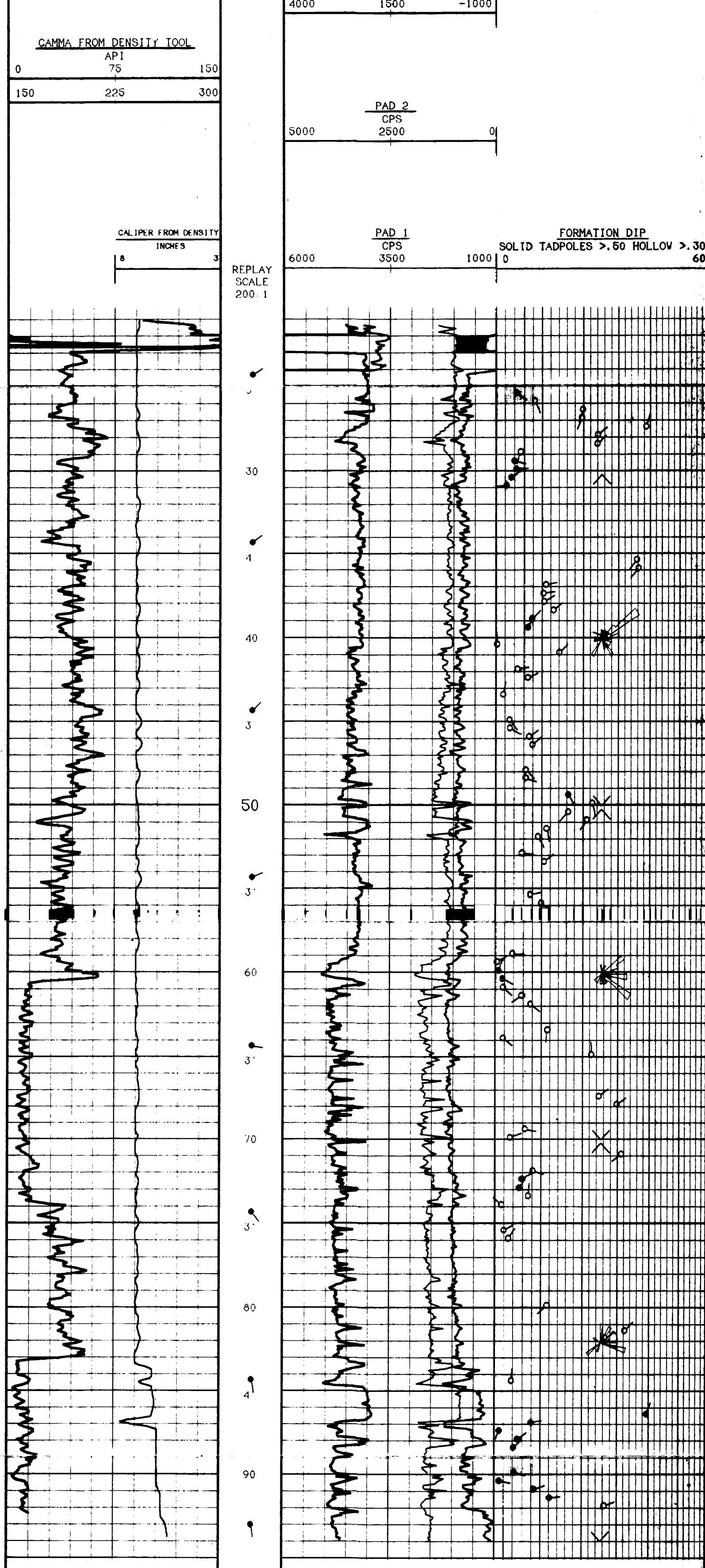
SYSTEM CONFIGURATION DATES    LOGGED                      PROCESSED                      PLOTTED

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**MAIN LOG**

DEPTH BASED DATA - MAXIMUM SAMPLING INCREMENT 10CM.                      RECORDED ON 2-APR-1992 AT 11:14

FILENAME MRGE020M.CIB                      RUN ID: MAIN LOG                      PLOTTED ON 02-APR-1992 AT 11:44



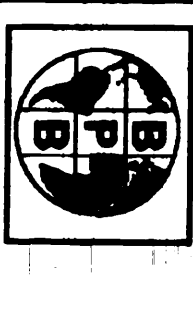
DEPTH BASED DATA - MAXIMUM SAMPLING INCREMENT 10CM.                      RECORDED ON 2-APR-1992 AT 11:14

FILENAME MRGE020M.CIB                      RUN ID: MAIN LOG                      PLOTTED ON 02-APR-1992 AT 11:44

**MAIN LOG**

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





**GAMMA RAY  
DIPMETER  
SLIMLINE UNIT**

COMPANY	BRINCO COAL MINING CORP.
WELL	92-021
FIELD	QUINSAM
PROVINCE/COUNTY	BRITISH COLUMBIA
COUNTRY/STATE	CANADA
LOCATION	CAMPBELL RIVER
PRVNC/CO.	BRITISH COLUMBIA
FIELD	QUINSAM
WELL	92-021
COMPANY	BRINCO COAL MINING CORP.
DATE	2-APR-92
DRILLING MEASURED FROM	CL
PERMANENT DATUM	CL
ELEVATION	319.950 M
LOC MEASURED FROM	CL
ABOVE PERMANENT DATUM	CL
ELEVATIONS	KB CL 319.950 M
DF CL	
OTHER SERVICES	F.F. DD1
LOC	LSD
SEC	
TYP	
KCF	
DATE	2-APR-92
RUN NUMBER	01
DEPTH-DRILLER	LAT S M
DEPTH-CORR	132.0 M
FIRST READING	132.0 M
LAST READING	0
CASING-DRILLER	26.7 M
CASING-CORR	24.0 M
BIT SIZE	5.5"
MOLE FLUID TYPE	WATER
DENS. A/DISC	1.1
PIPETE UID LOSS	N/A
SAMPLE SOURCE	N/A
RH @ N/AS LEAD	
RH @ N/AS LEAD	
RH @ N/AS LEAD	
SOURCE: RH/HMC	
RH @ BILI	
TIME SINCE CIRC	
MAX REC TEMP	
FOULING IN/OUT	
RECORDED BY	WGS - RIDDEAR
WITNESSED BY	JCA

RUN NUMBER	BOREHOLE RECORD			CASING RECORD			
	BIT	FROM	TO	SIZE	WEIGHT	FROM	TO
01	5.5"	121.3 M	141.0 M	7"		0	26.7 M
EQUIPMENT		RUN 1	RUN 2	RUN 3	RUN 4		
DIPMETER		2621264					

**REMARKS**

GAMMA RAY                      DIPMETER                      SLIMLINE UNIT

N 103 043.3 0    E 190 492.0 0

HOLE KEPT FALLING IN AT 50 METERS DUE TO HOLE CONDITIONS NO REPEAT SECTION.

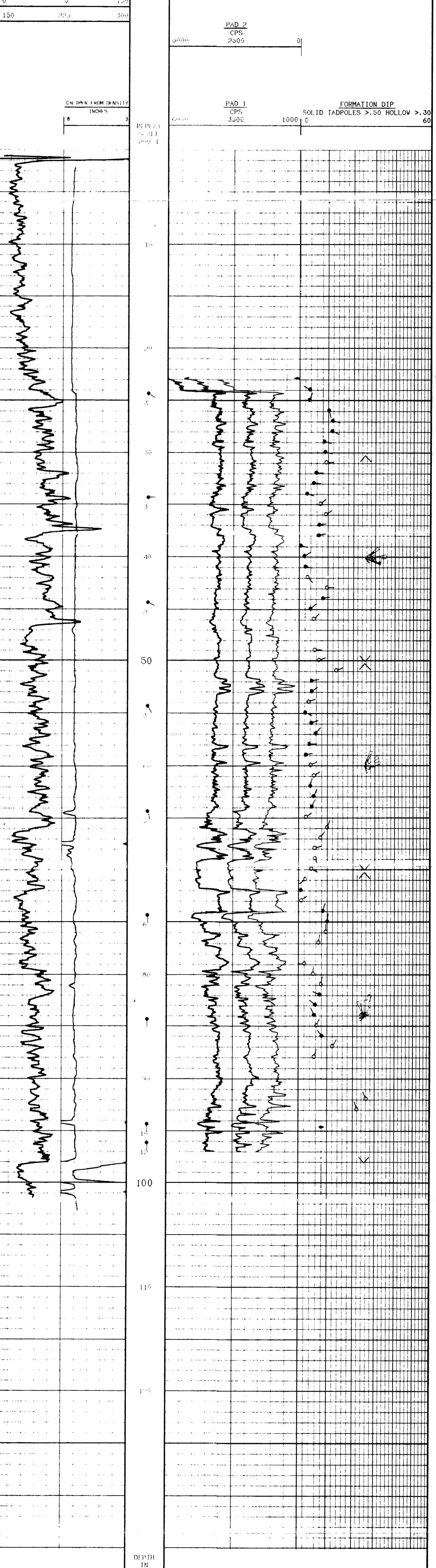
SYSTEM CONFIGURATION DATA:    LOGGED                      PROCESSED                      PLOTTED

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**MAIN LOG**

DEPTH BASED DATA - MAXIMUM SAMPLING INCREMENT 10CM.                      RECORDED ON 2-APR-1992 AT 12:15

FILENAME MRG021M.CIR    RUN ID MAIN LOG                      PLOTTED ON 02-APR-1992 AT 12:59



DEPTH BASED DATA - MAXIMUM SAMPLING INCREMENT 10CM.                      RECORDED ON 2-APR-1992 AT 12:15

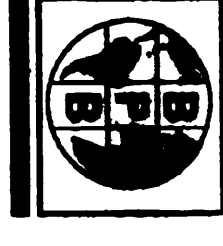
FILENAME MRG021M.CIR    RUN ID MAIN LOG                      PLOTTED ON 02-APR-1992 AT 12:59

**MAIN LOG**

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







**GAMMA RAY  
DIPMETER  
SLIMLINE UNIT**

LOCATION CAMPBELL RIVER PRVNC/CO. BRITISH COLUMBIA FIELD QUINSAM WELL 92-024 COMPANY BRINCO COAL MINING CORP. BRINCO COAL MINING CORP.	COMPANY BRINCO COAL MINING CORP. WELL 92-024 FIELD QUINSAM PROVINCE/COUNTY BRITISH COLUMBIA COUNTRY/STATE CANADA	LOCATION CAMPBELL RIVER I SD SEC TYP RCT OTHER SERVICES F.F. DDI	PERMANENT DATUM CL ELEVATION 309.210 M ABOVE PERMANENT DATUM DRILLING MEASURED FROM CL DATE 2-APR-92 RUN NUMBER ONE	PERMANENT DATUM CL ELEVATION 309.210 M ABOVE PERMANENT DATUM DRILLING MEASURED FROM CL DATE 2-APR-92 RUN NUMBER ONE	PERMANENT DATUM CL ELEVATION 309.210 M ABOVE PERMANENT DATUM DRILLING MEASURED FROM CL DATE 2-APR-92 RUN NUMBER ONE
DEPTH-LOGGER 117.6 M FIRST READING 0 LAST READING 6.3 M CASING-DRILLER 6.3 M CASING-LOGGER 6.3 M BIT SIZE 5.5" HOLE FLUID TYPE WATER DENS. VISC. 1.1 N/A PH/FLUID LOSS N/A SAMPLE SOURCE N/A RM @ MEAS TEMP N/A RM @ M/LAS TEMP N/A RM @ RH N/A TIME SINCE CIRG N/A MAX REC TEMP N/A EQUIPMENT/FASE V293 REORDER RECORDED BY JCV DIT/ISSUED BY					

RUN NUMBER ONE	BORHOLE RECORD			CASING RECORD			
	BIT	FROM	TO	SIZE	WEIGHT	FROM	TO
	5.5"	99.2 M	118.6 M			0	6.3 M
EQUIPMENT		RUN 1	RUN 2	RUN 3	RUN 4		
DIPMETER		202/204					

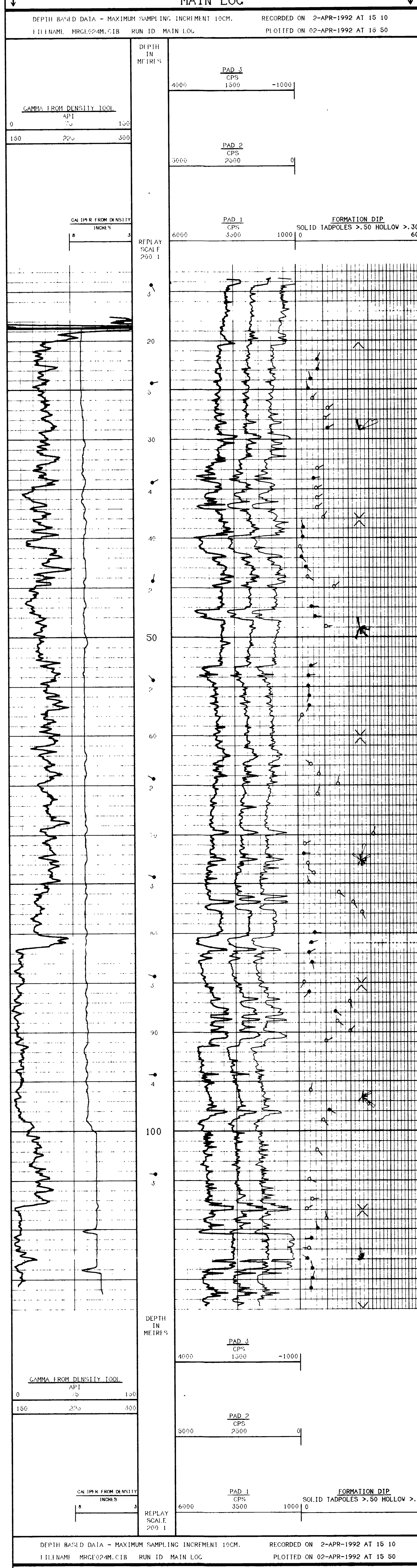
**REMARKS**

GAMMA RAY      DIPMETER      SLIMLINE UNIT

N 102 982.200    E 100 346.150

SYSTEM CONFIGURATION DATA    LOGGED      PROCESSED      PLOTTED

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



**GAMMA RAY  
DIPMETER  
SLIMLINE UNIT**

LOCATION	CAMPBELL RIVER	OTHER SERVICES	
PRVNC/CO.	BRITISH COLUMBIA	D/D1	
FIELD	QUINSAM	SPT-F	
WELL	92-025		
COMPANY	BRINCO COAL MINING CORP.		
PROVINCE/COUNTRY	BRITISH COLUMBIA		
COUNTRY/STATE	CANADA		
DATE	13-APR-92		
DRILLING MEASURED FROM	CI		
PREPARED BY	CI		
LOC MEASURED FROM	CI		
DRILLING MEASURED FROM	CI		
DATE	13-APR-92		
RUN NUMBER	ONE		
DIPMETER	136.7 M		
DEPTH-LOGGER	136.3 M		
LAST READING	136.3 M		
CASING-LOGGERS	0		
CASING-LOGGERS	13.2 M		
BIT SIZE	S.S.		
HOLE FLUID TYPE	WATER		
DI. NO. / VISC.	1.1		
PISTON / UD LOSS	N/A		
SAMPLE SOURCE	N/A		
RMT @ MEAS TEMP			
RMT @ MEAS TEMP			
SOURCE: RHT/RMC			
RHT @ BIT			
TIME SINCE CIRC			
MAX REC TEMP			
EQUIPMENT/BASE	V225 REFER		
RECORDED BY	JCV		
WITNESSED BY			

RUN NUMBER	BOREHOLE RECORD			CASING RECORD			
	BIT	FROM	TO	SIZE	WEIGHT	FROM	TO
ONE	5.5"	118.6 M	136.7 M	7"		0	15.2 M

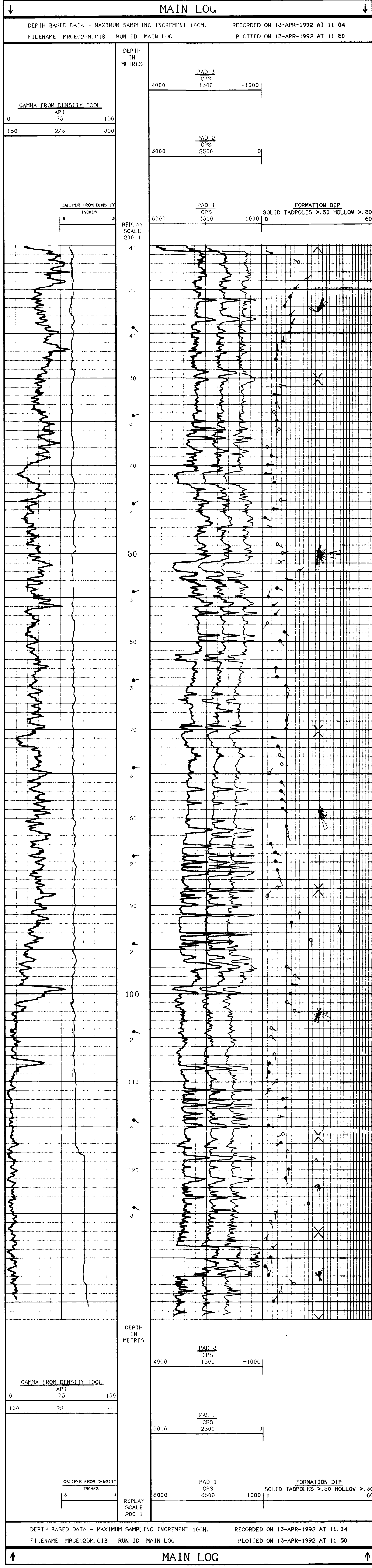
EQUIPMENT	RUN 1	RUN 2	RUN 3	RUN 4
DIPMETER	202/264			

**REMARKS**

GAMMA RAY      DIPMETER      SLIMLINE UNIT

SYSTEM CONFIGURATION DATA:    LOGGED      PROCESSED      PLOTTED

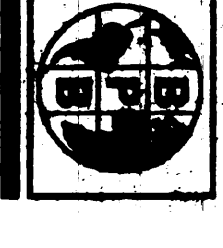
ALL INTERPRETATIONS ARE OPINIONS BASED ON INFERENCE FROM ELECTRICAL OR OTHER MEASUREMENTS AND WE CANNOT AND DO NOT GUARANTEE THE ACCURACY OR CORRECTNESS OF ANY INTERPRETATIONS AND WE SHALL NOT EXCEPT IN THE CASE OF GROSS OR WILLFUL NEGLIGENCE ON OUR PART BE LIABLE OR RESPONSIBLE FOR ANY LOSS, COSTS,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



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







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

COMPANY BRINCO COAL MINING CORP.  
 WELL 92-020  
 FIELD QUINSAM

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

OTHER SERVICES  
 DIRMETER  
 DDI

PERMANENT DATUM CL ELEVATION 292.697 M  
 LOG MEASURED FROM CL ABOVE PERMANENT DATUM  
 DRILLING MEASURED FROM CL

DATE 2-APR-92  
 RUN NUMBER 01  
 DEPTH-DRILLER 93.0 M  
 DEPTH-LOGGER 94.0 M  
 FIRST READING 0  
 LAST READING 17.7 M  
 CASING-DRILLER 17.7 M  
 CASING-LOGGER 17.7 M  
 BIT SIZE 5.5"

HOLE FLUID TYPE WATER  
 DENS./VISC. 1.1  
 PH/FLUID LOSS N/A  
 SAMPLE SOURCE N/A  
 RMT @ MEAS TEMP  
 RMC @ MEAS TEMP  
 RMT @ MEAS TEMP  
 RMC @ MEAS TEMP  
 SOURCE RMT/RMC  
 RMT @ BIT  
 TIME SINCE CIRC  
 MAX REC TEMP  
 EQUIPMENT/BASE V223 RIDER  
 RECORDED BY JCV  
 WITNESSED BY

RUN NUMBER	BOREHOLE RECORD			CASING RECORD			
	BIT	FROM	TO	SIZE	WEIGHT	FROM	TO
ONE	5.5"	03.2 M	93.0 M	7"		0	17.7 M

EQUIPMENT	RUN 1	RUN 2	RUN 3	RUN 4
FE				

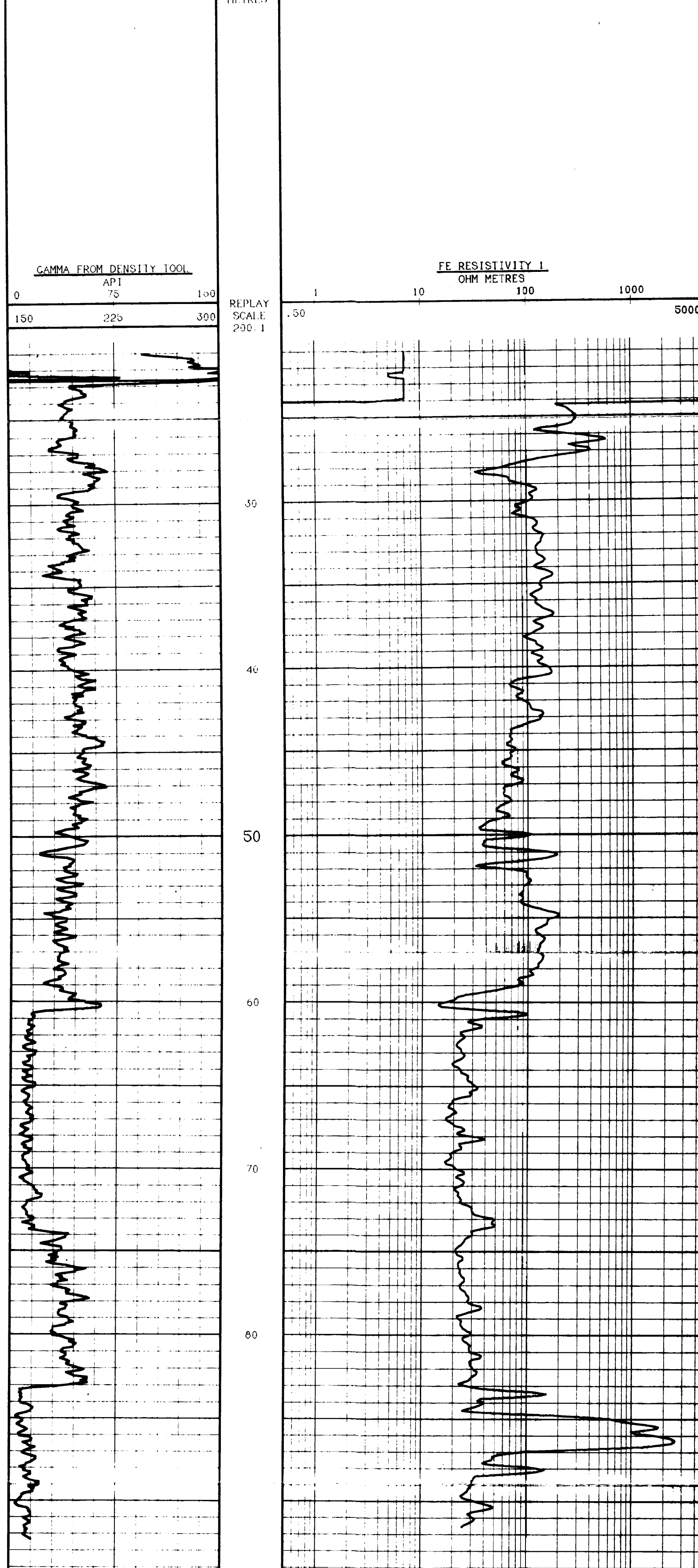
REMARKS  
 GAMMA RAY FOCUSS ELECTRIC SLIMLINE UNIT  
 N 102 600.531 E 100.000

SYSTEM CONFIGURATION DATES: LOGGED PROCESSED PLOTTED

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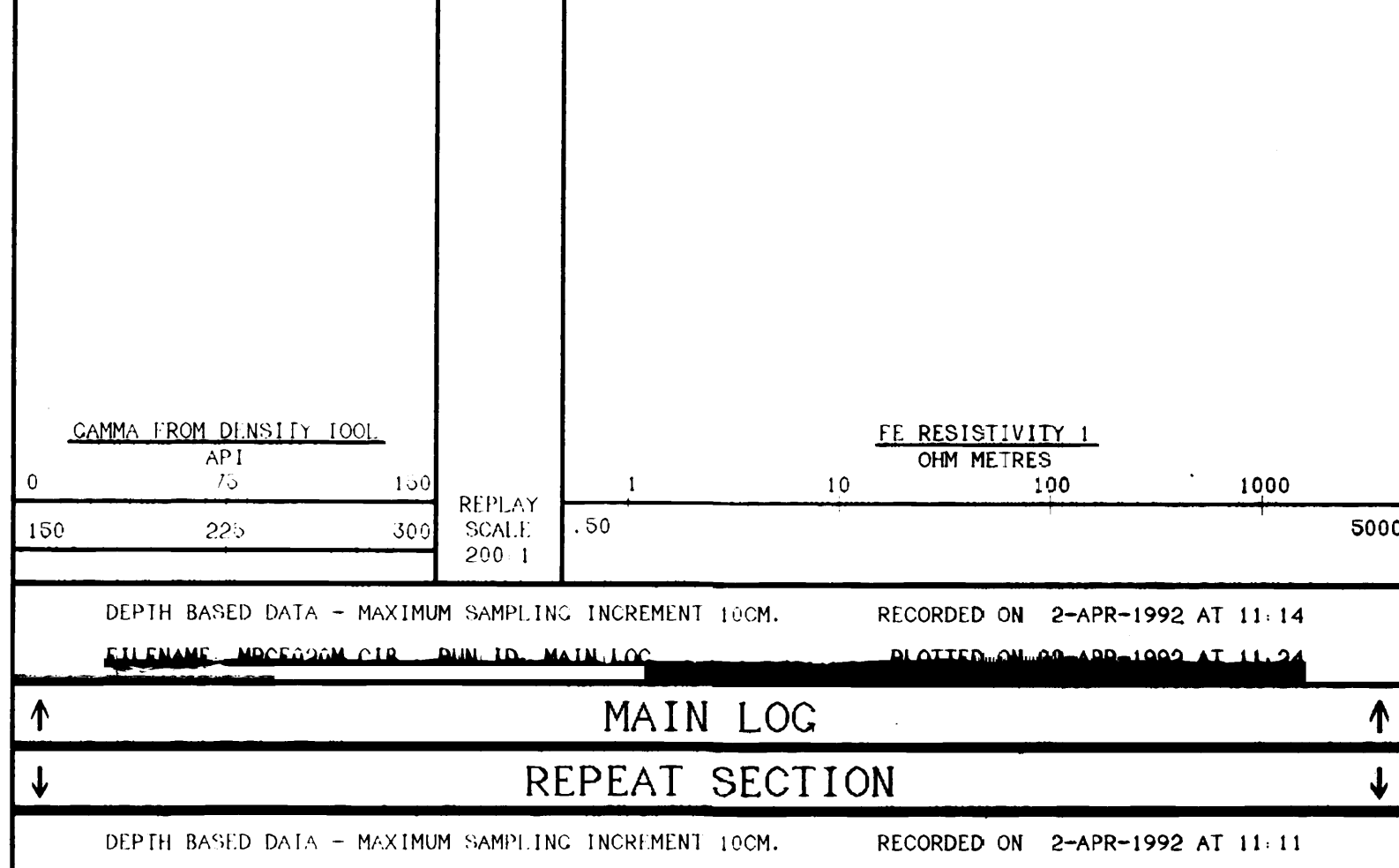
**MAIN LOG**

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



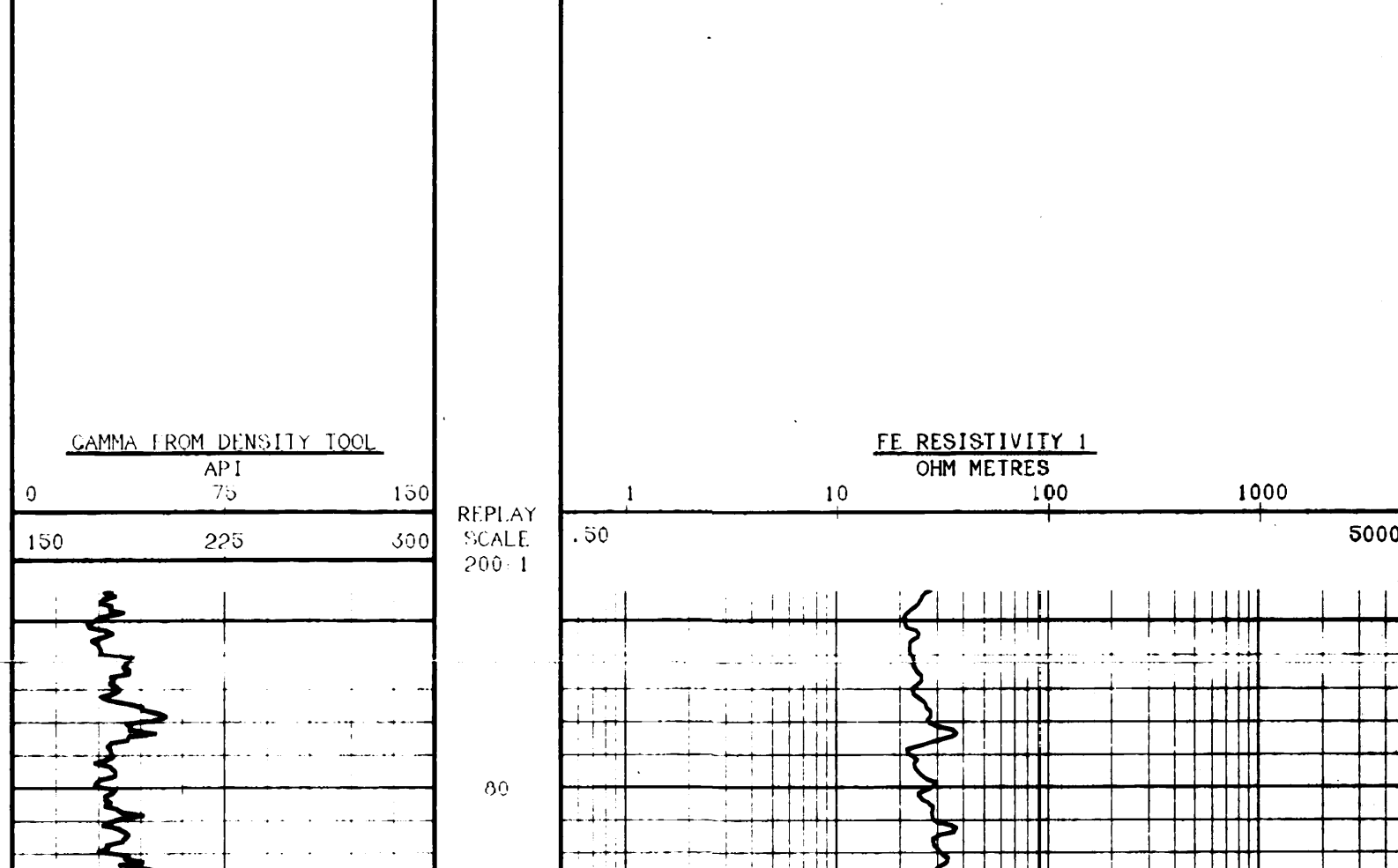
**REPEAT SECTION**

DEPTH BASED DATA - MAXIMUM SAMPLING INCREMENT 10CM. RECORDED ON 2-APR-1992 AT 11:14  
 FILENAME MRCE020R.CIB RUN ID: REPEAT SECTION PLOTTED ON 02-APR-1992 AT 11:24



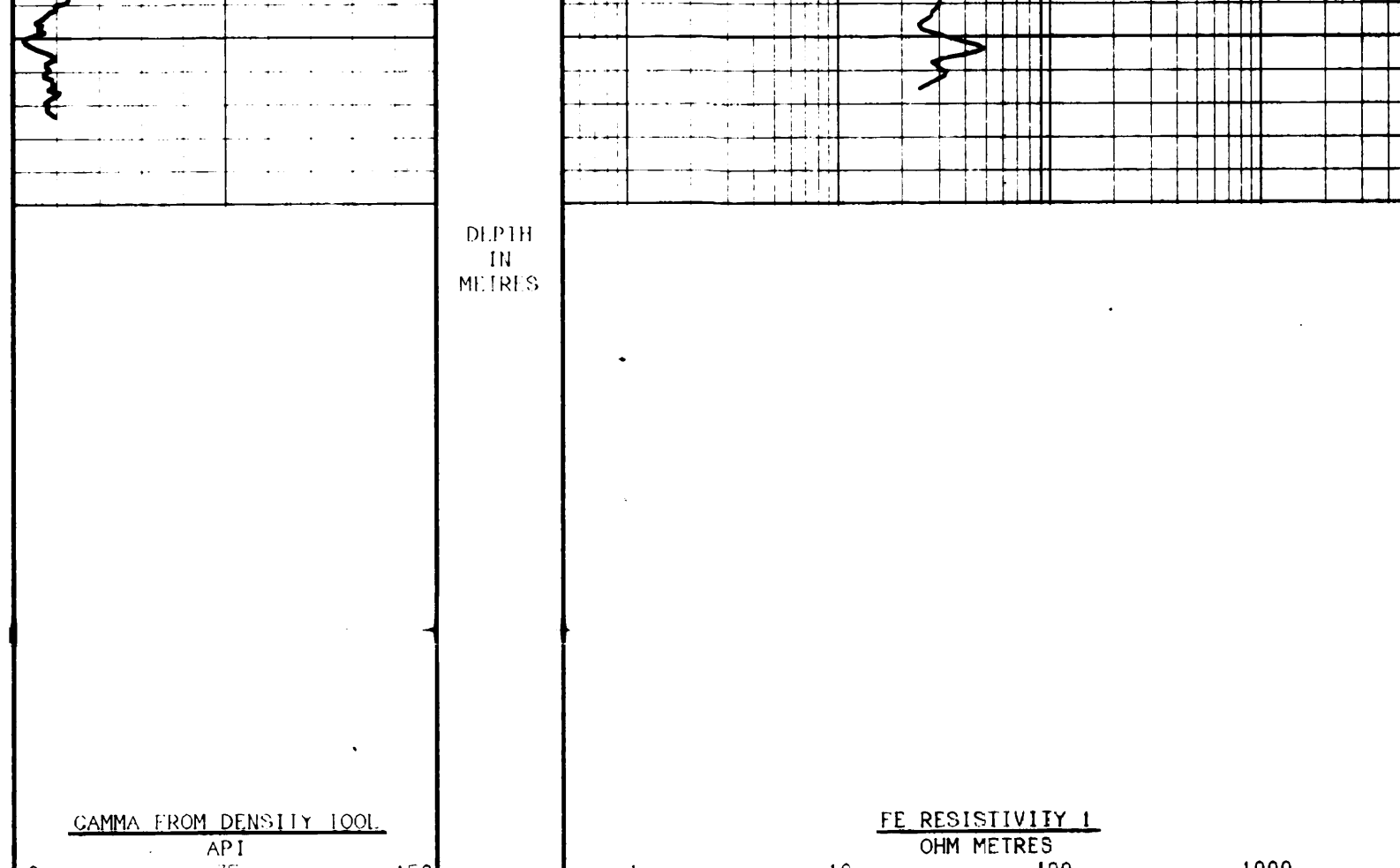
**REPEAT SECTION**

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



**REPEAT SECTION**

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



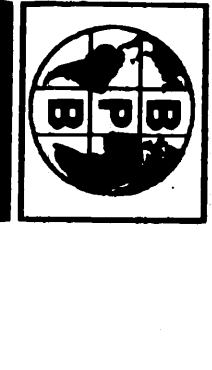
**REPEAT SECTION**

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

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







**GAMMA RAY  
FOCUSS ELECTRIC  
SLIMLINE UNIT**

LOCATION CAMPBELL RIVER PRVNC/CO. BRITISH COLUMBIA FIELD QUINSAM WELL 92-022 COMPANY BRINCO COAL MINING CORP. FIELD QUINSAM PROVINCE/COUNTY BRITISH COLUMBIA COUNTRY/STATE CANADA	LOCATION CAMPBELL RIVER SIZE 1.50 SBC TYPE RECI OTHER SERVICES DDI DDPME: IER
PREPARMENT DATA LOC MEASURED FROM CI ORILLING MEASURED FROM CI DATE 2-APR-92 RUN NUMBER ONE DEPTH-ORILLER 134.4 M DEPTH-OCCURR 134.0 M FIRST READING 134.0 M LAST READING 6.0 M CASING-BRILLER 6.0 M CASING-OCCURR 6.0 M BIT SIZE 5.5"	ELEVATION 301.502 M ABOVE PERMANENT DATUM KR CI 501.500 M EL ELEVATIONS DR CI

RUN NUMBER	BOPEHOLE RECORD			CASING RECORD			
ONE	BIT	FROM	TO	SIZE	WEIGHT	FROM	TO
ONE	5.5"	76.7 M	134.4 M	1.50		0	6.0 M

EQUIPMENT	RUN 1	RUN 2	RUN 3	RUN 4
FE				

**REMARKS**

GAMMA RAY FOCUSS ELECTRIC SLIMLINE UNIT

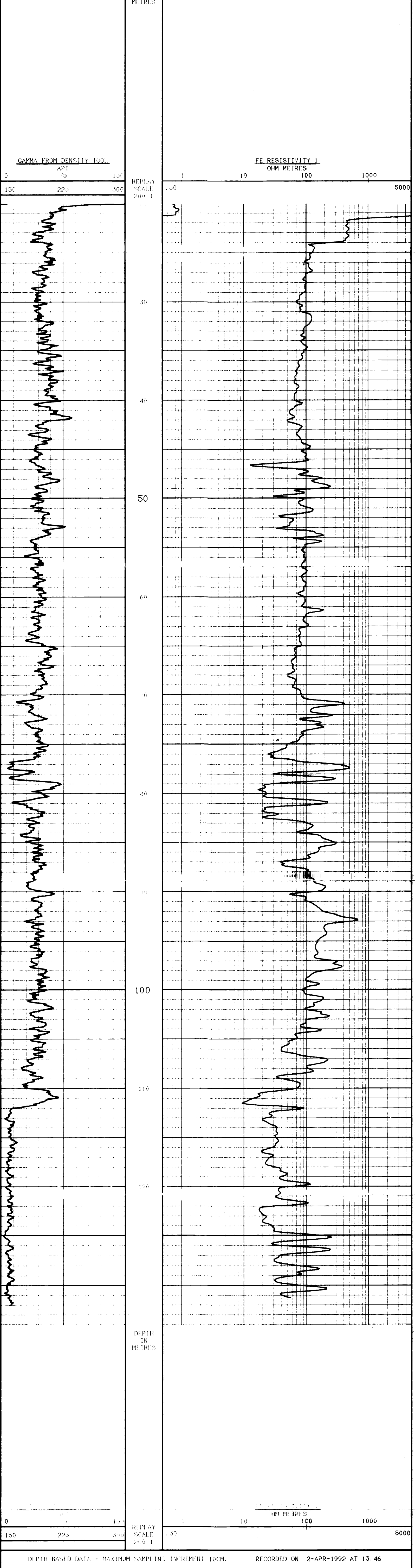
N 102 743.533 E 100 690.600

SYSTEM CONFIGURATION DATES: LOGGED PROCESSED PLOTTED

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**MAIN LOG**

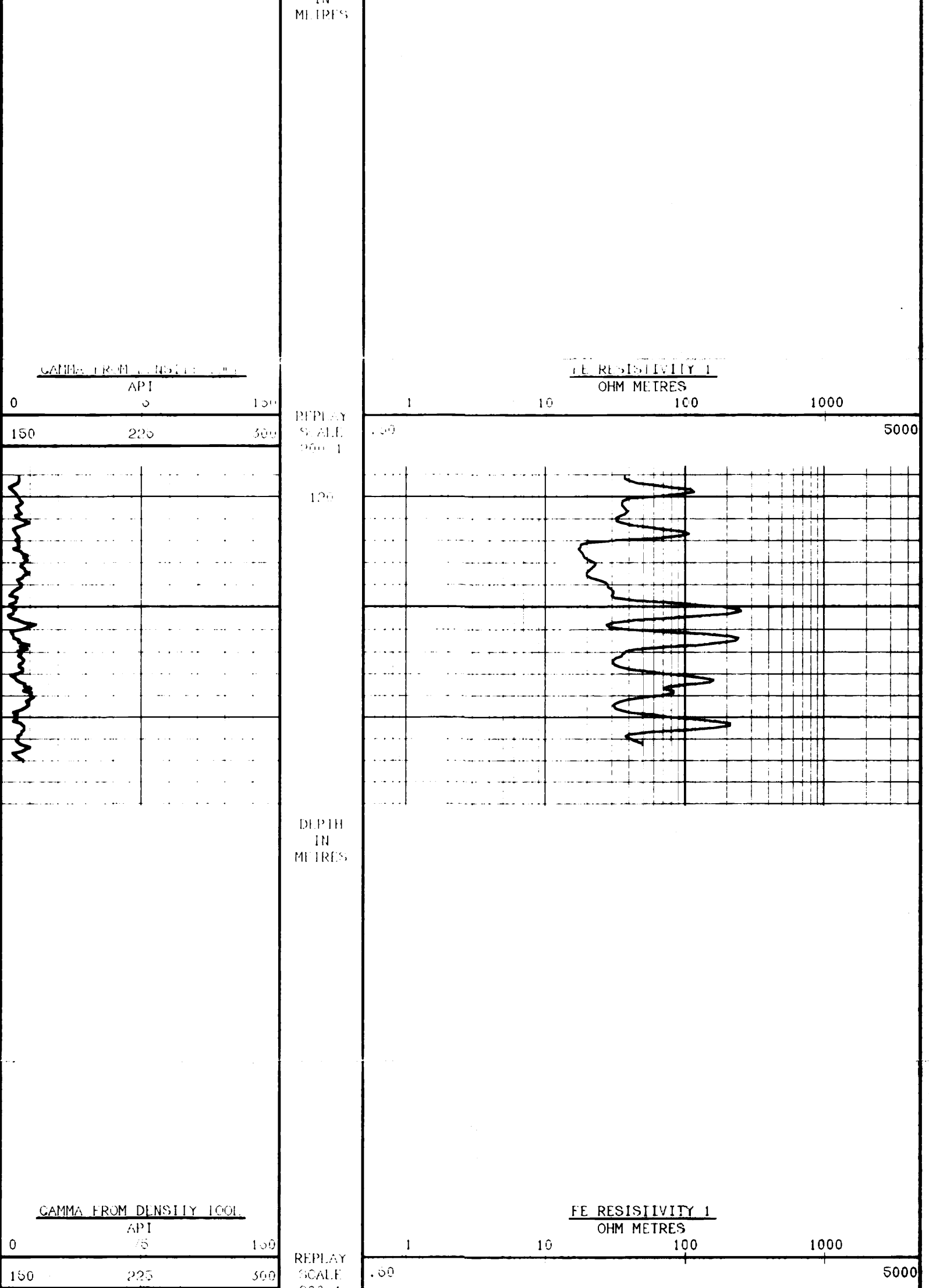
DEPTH BASED DATA - MAXIMUM SAMPLING INCREMENT 10CM. RECORDED ON 2-APR-1992 AT 13:46  
 FILENAME MRGEG22M.CIB RUN ID MAIN LOG PLOTTED ON 02-APR-1992 AT 14:02



DEPTH BASED DATA - MAXIMUM SAMPLING INCREMENT 10CM. RECORDED ON 2-APR-1992 AT 13:46  
 FILENAME MRGEG22M.CIB RUN ID MAIN LOG PLOTTED ON 02-APR-1992 AT 14:02

**REPEAT SECTION**

DEPTH BASED DATA - MAXIMUM SAMPLING INCREMENT 10CM. RECORDED ON 2-APR-1992 AT 13:36  
 FILENAME MRGEG22R.CIB RUN ID REPEAT SECTION PLOTTED ON 02-APR-1992 AT 14:01



DEPTH BASED DATA - MAXIMUM SAMPLING INCREMENT 10CM. RECORDED ON 2-APR-1992 AT 13:36  
 FILENAME MRGEG22R.CIB RUN ID REPEAT SECTION PLOTTED ON 02-APR-1992 AT 14:01

**REPEAT SECTION**

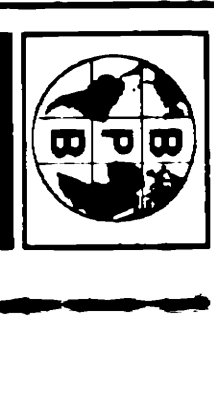
COMPANY	BRINCO COAL MINING CORP.
WELL	92-022
FIELD	QUINSAM
PROVINCE/COUNTY	BRITISH COLUMBIA
COUNTRY/STATE	CANADA











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

COMPANY **BRINCO COAL MINING CORP.**  
WELL **92-025**  
FIELD **QUINSAM**

LOCATION **CAMPBELL RIVER**  
PROV/CO. **BRITISH COLUMBIA**  
FIELD **QUINSAM**  
WELL **92-025**  
COMPANY **BRINCO COAL MINING CORP.**

PROVINCE/COUNTRY **BRITISH COLUMBIA CANADA**  
WELL **92-025**  
FIELD **QUINSAM**  
LOCATION **CAMPBELL RIVER**

DATE **1992-04-13**  
TIME **11:04**  
OPERATOR **MR. J. M. ...**

DATE	1992-04-13
TIME	11:04
OPERATOR	MR. J. M. ...
WELL	92-025
FIELD	QUINSAM
LOCATION	CAMPBELL RIVER
PROV/CO.	BRITISH COLUMBIA
COUNTRY/STATE	CANADA
COMPANY	BRINCO COAL MINING CORP.

BOREHOLE RECORD		CASING RECORD					
RUN NUMBER	BIT	FROM	TO	SIZE	WEIGHT	FROM	TO
ONE	5.5"	110.0 M	136.7 M	7"		0	15.2 M

EQUIPMENT	RUN 1	RUN 2	RUN 3	RUN 4
FE				

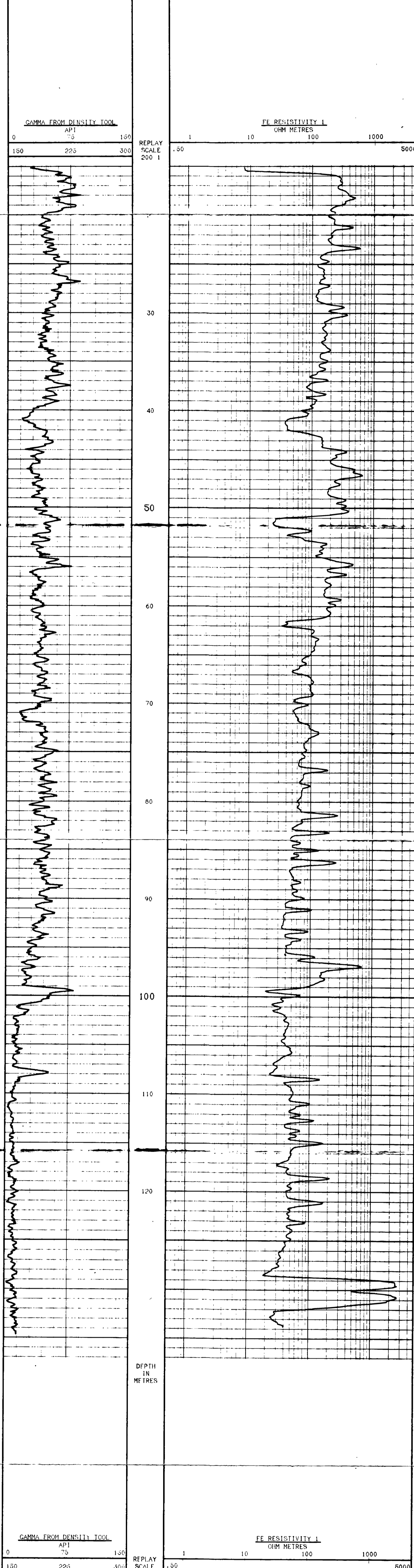
REMARKS  
GAMMA RAY      FOCUSS ELECTRIC      SLIMLINE UNIT

SYSTEM CONFIGURATION DATES    LOGGED      PROCESSED      PLOTTED

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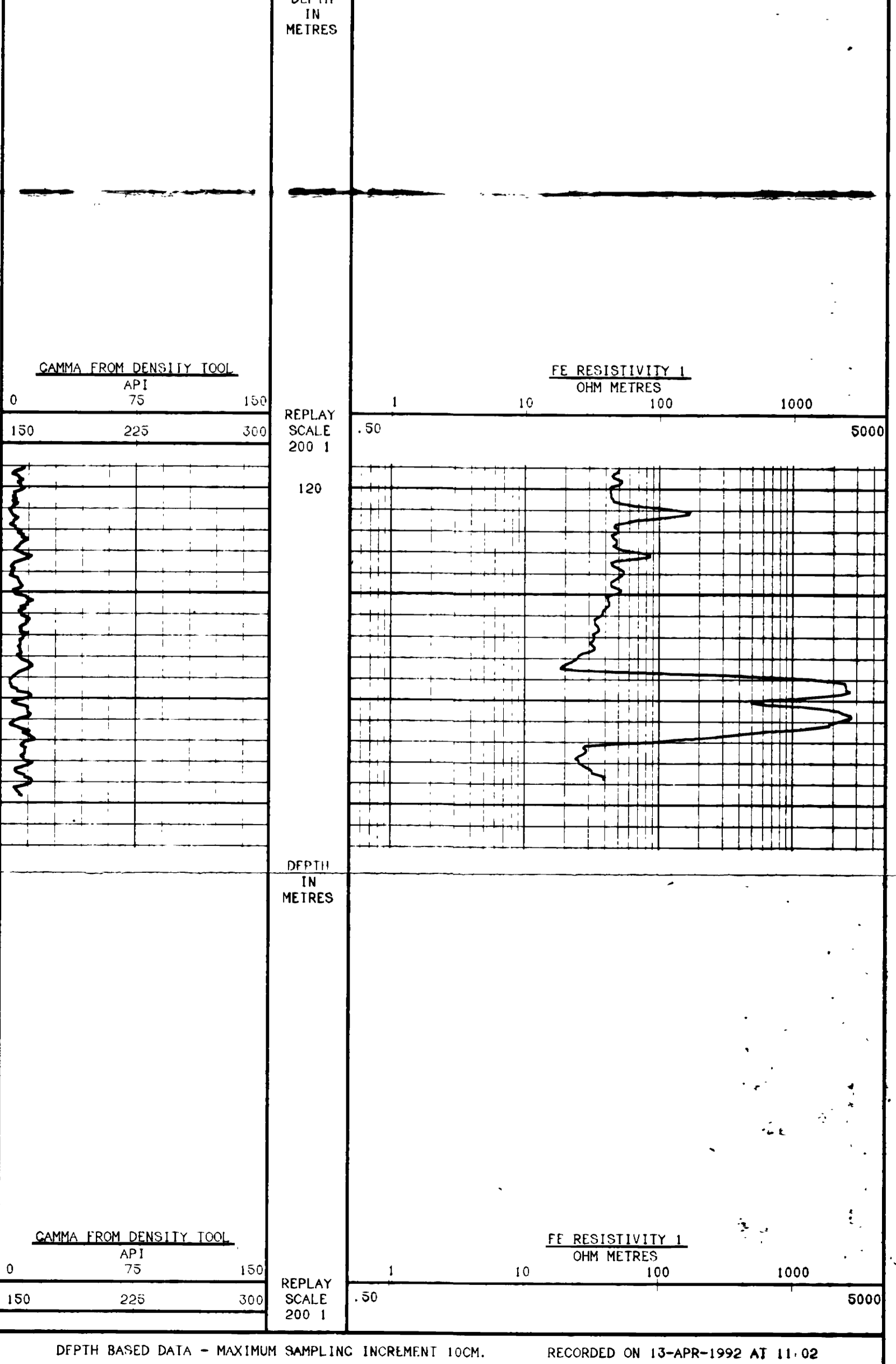
**MAIN LOG**

DEPTH BASED DATA - MAXIMUM SAMPLING INCREMENT 10CM.      RECORDED ON 13-APR-1992 AT 11:04  
FILENAME MRG109.M.CIB      RUN ID MAIN LOG      PLOTTED ON 13-APR-1992 AT 11:18



**REPEAT SECTION**

DEPTH BASED DATA - MAXIMUM SAMPLING INCREMENT 10CM.      RECORDED ON 13-APR-1992 AT 11:02  
FILENAME MRG025R.CIB      RUN ID REPEAT SECTION      PLOTTED ON 13-APR-1992 AT 11:18



**REPEAT SECTION**

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