

MULTI CHANNEL SONIC.  
GAMMA RAY LOG.

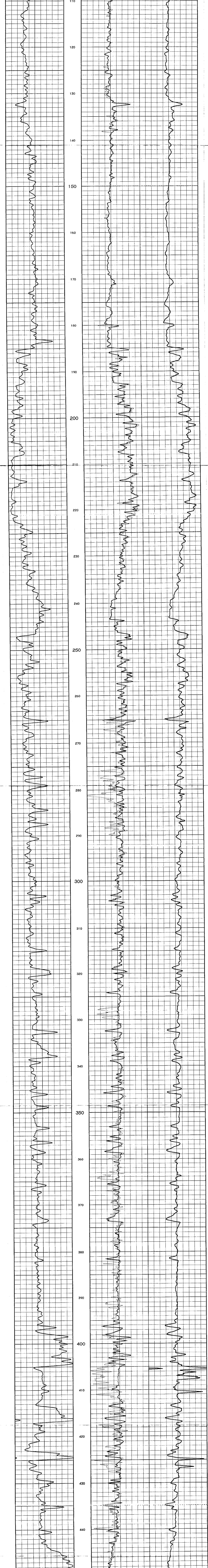
NORTHERN TERRITORY BATTEN CREEK			
COMPANY: BHP MINERALS			
WELL: BCD 01			
FIELD: BATTEN CREEK			
PROVINCE/COUNTY: NORTHERN TERRITORY			
COUNTRY/STATE: AUSTRALIA			
LOCN. / PRVNC. / FLD. / ID:	LND. / SEC. / TWP. / REG.:	OTHER SERVICES:	DIV. / ROA4
BHP MINERALS		GIS, MSU, SP	
ELEVATION DATA: ELEVATION PERMANENT DATUM: HD ELEVATIONS:			
LOG MEASURED FROM G.L. DRILLING MEASURED FROM G.L.			
DATE LOGGED: 28-SEP-95			
DEPTHL-ROLLER: 457 M			
DEPTH-ROLLER:	457 M		
FIRST READING:	458 M		
LAST READING:	6 M		
CASING-DOOR:	NO		
BIT SIZE:			
BIT TYPE:	PUL. MTR.		
PIPERLINE LOSS:			
SAMPLE SOURCE:			
MEAS. TIME:			
DATA TIME:			
SOURCE: BPCM			
MEAS. TIME:			
DATA TIME:			
MAX. SEC. TIME:			
DATA TIME:			
DEPTHL-ROLLER:			
V33% PERIOD:			
RECORDED BY:	R. A. L. DES		

RUN	BOREHOLE RECORD			CASING RECORD				
	NUMBER	BIT	FROM	TO	SIZE	WEIGHT	FROM	TO
ONE	NG			468 M				
EQUIPMENT	RUN 1			RUN 2		RUN 3		RUN 4

REMARKS

MULTI CHANNEL SONIC.  
GAMMA RAY LOG.  
VERTICAL OPEN HOLE.  
GAMMA MERGED FROM GIS.

ALL INTERPRETATIONS ARE OPINIONS BASED ON INFERENCES FROM ELECTRICAL OR OTHER MEASUREMENTS AND TESTS MADE BY THE CONTRACTOR. OUR LIABILITY FOR ANY INTERPRETATION IS LIMITED AND WE SHALL NOT, EXCEPT IN THE CASE OF GROSS OR WILLFUL NEGLIGENCE, BE LIABLE OR RESPONSIBLE FOR ANY LOSS, COSTS, DAMAGES OR EXPENSES INCURRED OR SUSTAINED BY ANYONE RELATING TO THE INFORMATION CONTAINED IN THESE LOGS. THE CONTRACTOR'S LIABILITY FOR THESE INTERPRETATIONS ARE ALSO SUBJECT TO OUR GENERAL TERMS AND CONDITIONS IN OUR PRICE SCHEDULE.



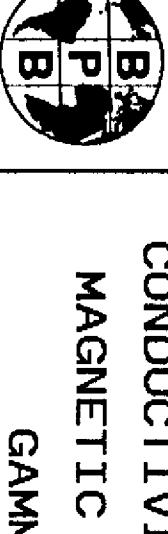
MAIN LOG

DEPTH BASED DATA - MAXIMUM SAMPLING INCREMENT 10CM. RECORDED ON 28-SEP-1995 AT 14:11  
FILENAME: MRGED01U.CIB RUN ID: MAIN LOG PLOTTED ON 28-SEP-1995 AT 15:00

COMPANY: BHP MINERALS  
WELL: BCD 01  
FIELD: BATTEN CREEK  
PRVNC/COUNTY: NORTHERN TERRITORY  
CNTRY/STATE: AUSTRALIA

ALL INFORMATION CONTAINED HEREIN IS UNPUBLISHED PROPRIETARY INFORMATION OF BHP MINERALS AND IS PROTECTED BY LAW. IT MAY NOT BE COPIED, REPRODUCED, TRANSMITTED, DISCLOSED OR USED WITHOUT THE PRIOR WRITTEN CONSENT OF BHP MINERALS.





CONDUCTIVITY, RESISTIVITY,  
MAGNETIC SUSCEPTIBILITY,  
GAMMA RAY LOG.

		NORTHERN TERRITORY	
		BATTEN CREEK	
PRVNC:		FIELD: BATTEN CREEK	
WELL: BCP 09		FIELD: BATTEN CREEK	
COMPANY: BHP MINERALS		PROVINCE/COUNTY: NORTHERN TERRITORY	
LOCN: BCP 09		COUNTRY/STATE: AUSTRALIA	
PERMANENT LOG MEASURED DRILLING TEST DRILLING CASING CASING BIT SIZE DENS. DENS. AVS.C PHFLUID SAMPLE SORCE RMF & MEAS RMC & MEAS SOURCE: REF: PRNC	MEASURED FROM G.L. FROM G.L.	LOCATION LSD SEC TWP RSE DATE RUN NUMBER DEPTH DRILLER TEST DRILLING LAST BITTING Casing Casing Diameter HOLE FLUID DENS. AVS.C PHFLUID SAMPLE SORCE RMF & MEAS RMC & MEAS SOURCE: REF: PRNC	OTHER SERVICES DIV1 MSI ELEVATION ABOVE PERMANENT DATUM KB ELEVATIONS: Q

RUN	BOREHOLE RECORD			CASING RECORD				
	NUMBER	BIT	FROM	TO	SIZE	WEIGHT	FROM	TO
ONE			150	150			150	150
EQUIPMENT	RUN 1	RUN 2	RUN 3	RUN 4				

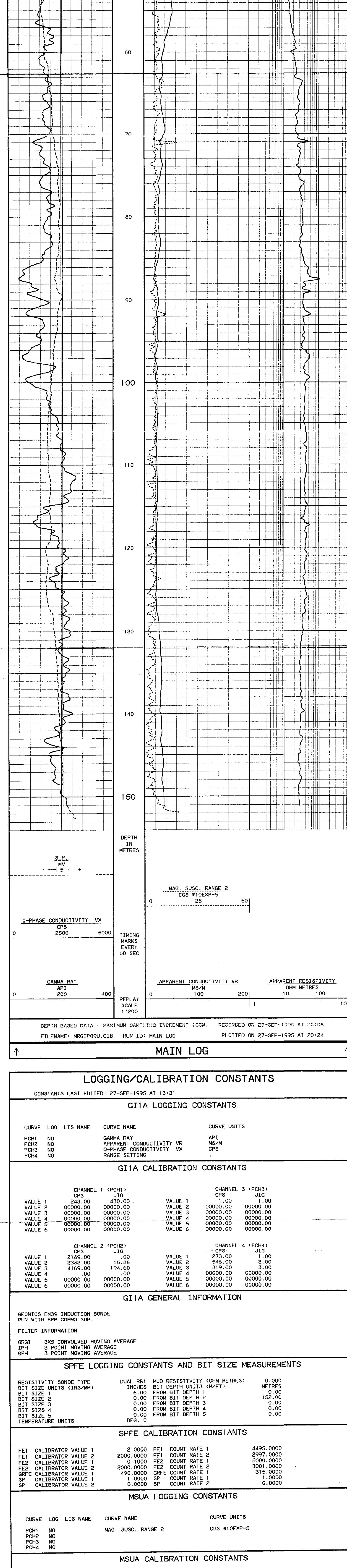
REMARKS

CONDUCTIVITY, RESISTIVITY, MAGNETIC SUSCEPTIBILITY, GAMMA RAY LOG.

VERTICAL OPEN HOLE.

MAG. SUSC. NOT TEMPERATURE DRIFT CORRECTED.

ALL INTERPRETATIONS ARE OPINIONS BASED ON INFERENCES FROM ELECTRICAL OR OTHER MEASUREMENTS AND WE CANNOT, AND DO NOT, GUARANTEE THE ACCURACY OR CORRECTNESS OF ANY INTERPRETATIONS. AND WE SHALL NOT, EXCEPT IN THE CASE OF GROSS OR WILLFUL NEGLIGENCE ON OUR PART, BE LIABLE FOR RESPONSIBILITY FOR ANY DAMAGES, EXPENSES, COSTS OR EXPENSES, WHETHER DIRECT, INDIRECT, SPECIAL, EXEMPLARY, PUNITIVE OR CONSEQUENTIAL, ARISING OUT OF 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.



COMPANY BHP MINERALS  
WELL BCP 09  
FIELD BATTEN CREEK  
PRVNC/COUNTY NORTHERN TERRITORY  
CNTRY/STATE AUSTRALIA



## DIPMETER LOG.

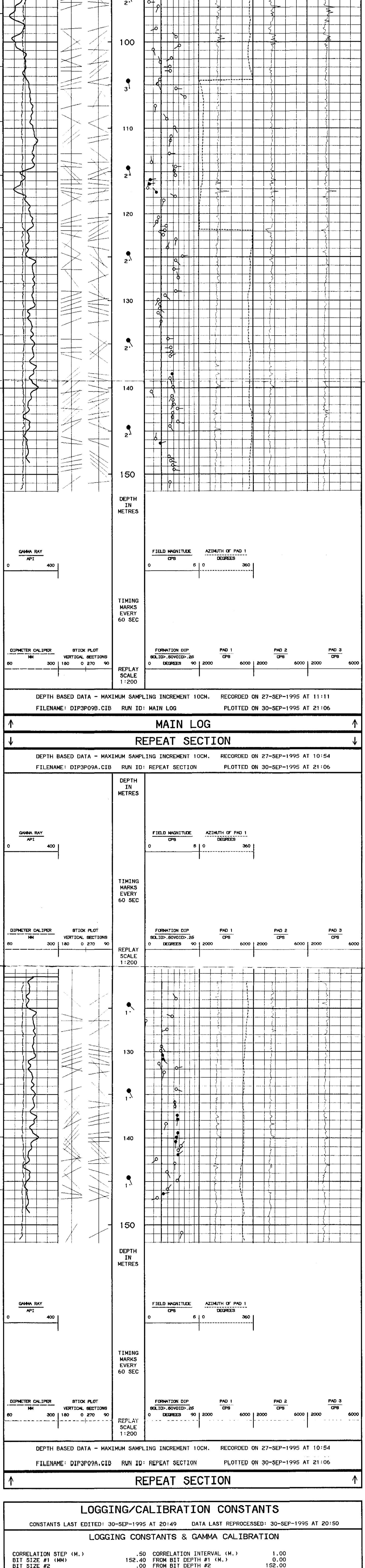
COMPANY	BHP MINERALS
WELL	BOP 09
FIELD	BATTEN CREEK
PRVNC/COUNTY	NORTHERN TERRITORY
CNTRY/STATE	AUSTRALIA

RUN	BOREHOLE RECORD			CASING RECORD		
	NUMBER	BIT	FROM	TO	SIZE	WEIGHT
ONE						
EQUIPMENT	RUN 1	RUN 2	RUN 3	RUN 4		
DVI	237/005					

REMARKS

DIPMETER LOG.  
VERTICAL OPEN HOLE.  
GAMMA MERGED FROM GIS.

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## LOGGING/CALIBRATION CONSTANTS

CONSTANTS LAST EDITED: 30-SEP-1995 AT 20:49 DATA LAST REPROCESSED: 30-SEP-1995 AT 20:50

## LOGGING CONSTANTS &amp; GAMMA CALIBRATION

CORRELATION STEP (M.) .50 CORRELATION INTERVAL (M.) 1.00  
BIT SIZE #1 (MM) 152.00 FROM BIT DEPTH #1 (M.) 0.00  
BIT SIZE #2 .00 FROM BIT DEPTH #2 CPS 152.00  
BIT SIZE #3 .00 FROM BIT DEPTH #3 .00  
BIT SIZE #4 .00 FROM BIT DEPTH #4 .00  
GAMMA CALIBRATOR (API) 430.00 GAMMA COUNTS 243.00  
UNUSED XXXXXXXX SEARCH ANGLE (DEGREES) 45.00  
STRUCTURAL DIP ANGLE (DEGREES) 5.50 STRUCTURAL DIP AZI. (DEGREES) YES  
DELTALOG (DEGREES) .00 DEPTH AND DATA MM  
CORRELATE YES CALIPER UNITS YES  
DEPTH UNITS METRIC CALIPER USED IN CALCULATIONS YES

## LEVEL CELL CALIBRATION

TILT(DEGREES) LC1(COUNTS) LC2(COUNTS)

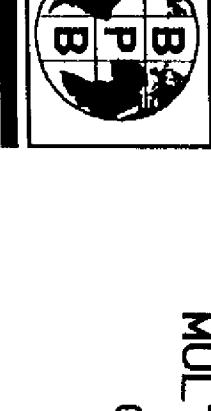
-10.00 139.00 148.00  
-8.00 146.00 155.00  
-6.00 152.00 161.00  
-4.00 158.00 167.00  
-2.00 165.00 175.00  
0.00 172.00 181.00  
2.00 179.00 188.00  
4.00 187.00 194.00  
6.00 192.00 201.00  
8.00 197.00 208.00  
10.00 205.00 214.00  
.00 .00 .00  
.00 .00 .00  
.00 .00 .00  
.00 .00 .00  
.00 .00 .00  
CALIBRATION IDENTIFICATION: 237S

## MAGNETOMETER CALIBRATION

CALIBRATOR(MM) COUNTS PAD 2 OFFSET(MM) PAD 3 OFFSET(MM)

76.20 .00 .00  
101.00 .00 .00  
127.00 310.00 .00 .00  
149.35 345.00 .00 .00  
203.20 415.00 .00 .00  
254.00 447.00 .00 .00  
CALIBRATION IDENTIFICATION: 237S/005

COMPANY	BHP MINERALS
WELL	BCP 09
FIELD	BATTEN CREEK
PRVNC/COUNTY	NORTHERN TERRITORY
CNTRY/STATE	AUSTRALIA



MULTI CHANNEL SONIC,  
GAMMA RAY LOG.

COMPANY	BHP MINERALS			
WELL	BCP 09			
FIELD	BATTEN CREEK			
PRVNC/COUNTY	NORTHERN TERRITORY			
CNTRY/STATE	AUSTRALIA			
LOCN.	NORTHERN TERRITORY BATTEN CREEK			
PRVNC				
FIELD				
PROVINCE/COUNTY				
COUNTRY/STATE				
LOCATION				
PERMANENT DATUM	G.L.	D.M.	ELEVATION	PERMANENT DATUM
LOG MEASURED FROM	G.L.	ABOVE	KM	DF
DRILLING MEASURED FROM	G.L.		GL	GL
DATE	27-SEP-95		ELEVATIONS:	
RUN NUMBER	ONE			
BIT	150 M			
DEPTH-DRILLER	150 M			
DEPTH-LOGGER	150 M			
FIRST READING	150 M			
LAST READING	0 M			
CASING-DRILLER				
CASING-LOGGER				
BIT SIZE				
HOLE FLUID TYPE	WATER			
DENS. API				
DENS. API/SEC				
PROFLUID LOSS				
SAMPLE SOURCE				
RM @ MEAS TEMP				
RM @ MEAS TEMP				
SOURCE: RMF/NMC				
RM @ BIT				
TIME SINCE CIRC				
MAX REC TEMP				
EQUIPMENT/REUSE	V337	PERTH		
RECORDED BY	R.A. LEES			
MEASURED BY				

RUN NUMBER	BOREHOLE RECORD			CASING RECORD		
	BIT	FROM	TO	SIZE	WEIGHT	FROM
ONE						TO
	EQUIPMENT	RUN 1	RUN 2	RUN 3	RUN 4	

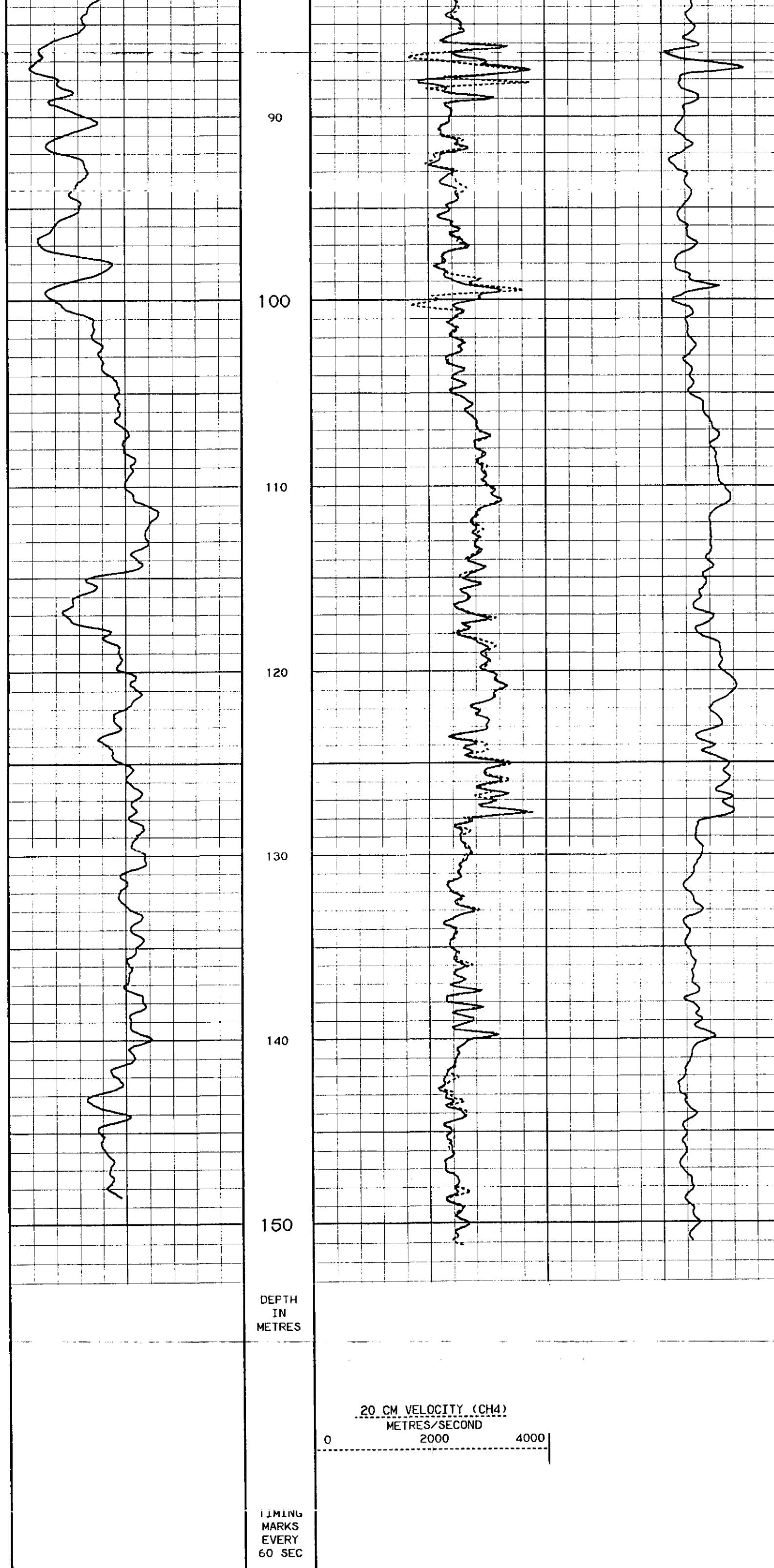
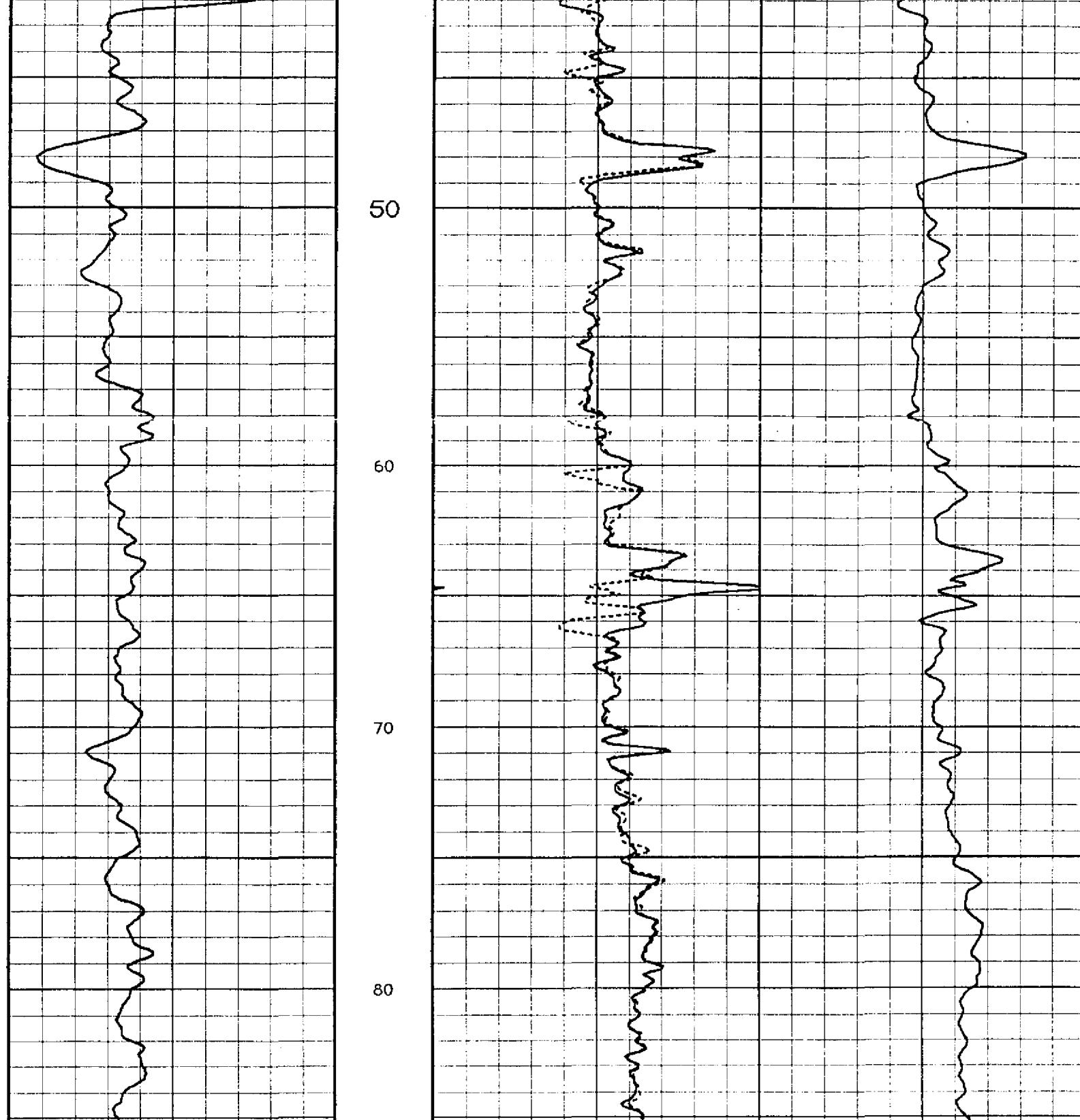
REMARKS

MULTI CHANNEL SONIC.

VERTICAL OPEN HOLE.

GAMMA MERGED FROM GIS.

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COMPANY	BHP MINERALS		
WELL	BCP 09		
FIELD	BATTEN CREEK		
PRVNC/COUNTY	NORTHERN TERRITORY		
CNTRY/STATE	AUSTRALIA		



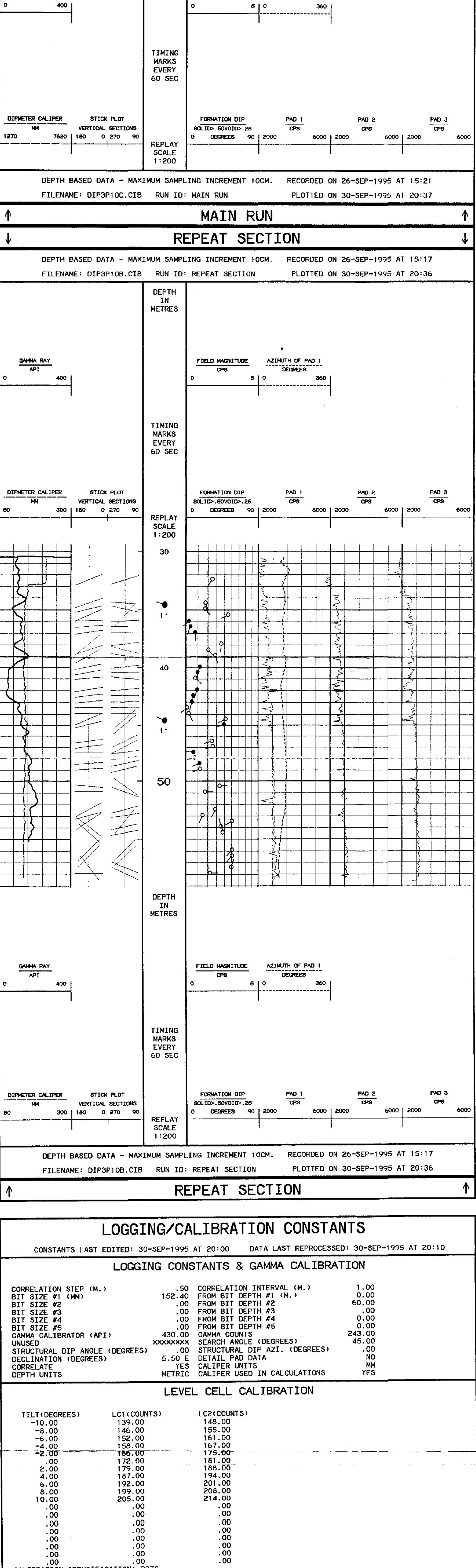


# DIPMETER LOG.



COMPANY		BHP MINERALS	
WELL		BCP 10	
FIELD		BATTEN CREEK	
PROVINCE/COUNTY		NORTHERN TERRITORY	
COUNTRY/STATE		AUSTRALIA	
LOCN. PRVNC	NORTHERN TERRITORY		
FIELD	BATTEN CREEK		
WELL:	BCP 10		
COMPANY:	BHP MINERALS		
LOCATION	SEC	TMP	RGE
LSD			
ELEVATION ABOVE PERMANENT DATUM			
IS ELEVATIONS: DP			
MSU, MS1, CO1 R04, GS1			

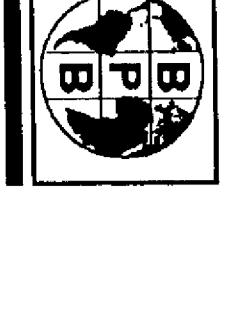
RUN NUMBER	BOREHOLE RECORD			CASTING RECORD		
	BIT	FROM	TO	SIZE	WEIGHT	FROM
ONE						
EQUIPMENT	RUN 1		RUN 2		RUN 3	
DVI	237/005					
REMARKS						
DIPMETER LOG. VERTICAL OPEN HOLE, GAMMA MERGED FROM GIS						
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LOGGING/CALIBRATION CONSTANTS																																																																							
CONSTANTS LAST EDITED: 30-SEP-1995 AT 20:00 DATA LAST REPROCESSED: 30-SEP-1995 AT 20:10																																																																							
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<table border="1"> <tr><td>CORRELATION STEP (M.)</td><td>.50</td><td>CORRELATION INTERVAL (M.)</td><td>1.00</td></tr> <tr><td>BIT SIZE #1 (MM)</td><td>152.40</td><td>FROM BIT DEPTH #1 (M.)</td><td>0.00</td></tr> <tr><td>BIT SIZE #2</td><td>.00</td><td>FROM BIT DEPTH #2</td><td>60.00</td></tr> <tr><td>BIT SIZE #3</td><td>.00</td><td>FROM BIT DEPTH #3</td><td>0.00</td></tr> <tr><td>BIT SIZE #4</td><td>.00</td><td>FROM BIT DEPTH #4</td><td>0.00</td></tr> <tr><td>BIT SIZE #5</td><td>.00</td><td>FROM BIT DEPTH #5</td><td>0.00</td></tr> <tr><td>GAMMA CALIBRATOR (API)</td><td>430.00</td><td>GAMMA COUNTS</td><td>243.00</td></tr> <tr><td>UNUSED</td><td>XXXXXX</td><td>SEARCH ANGLE (DEGREES)</td><td>45.00</td></tr> <tr><td>STRUCTURAL DIP ANGLE (DEGREES)</td><td>.00</td><td>STRUCTURAL DIP AZI. (DEGREES)</td><td>.00</td></tr> <tr><td>DECLINATION (DEGREES)</td><td>5.50</td><td>DETAIL PAD DATA</td><td>NO</td></tr> <tr><td>CORRELATE</td><td>YES</td><td>CALIPER UNITS</td><td>MM</td></tr> <tr><td>DEPTH UNITS</td><td>METRIC</td><td>CALIPER USED IN CALCULATIONS</td><td>YES</td></tr> </table>						CORRELATION STEP (M.)	.50	CORRELATION INTERVAL (M.)	1.00	BIT SIZE #1 (MM)	152.40	FROM BIT DEPTH #1 (M.)	0.00	BIT SIZE #2	.00	FROM BIT DEPTH #2	60.00	BIT SIZE #3	.00	FROM BIT DEPTH #3	0.00	BIT SIZE #4	.00	FROM BIT DEPTH #4	0.00	BIT SIZE #5	.00	FROM BIT DEPTH #5	0.00	GAMMA CALIBRATOR (API)	430.00	GAMMA COUNTS	243.00	UNUSED	XXXXXX	SEARCH ANGLE (DEGREES)	45.00	STRUCTURAL DIP ANGLE (DEGREES)	.00	STRUCTURAL DIP AZI. (DEGREES)	.00	DECLINATION (DEGREES)	5.50	DETAIL PAD DATA	NO	CORRELATE	YES	CALIPER UNITS	MM	DEPTH UNITS	METRIC	CALIPER USED IN CALCULATIONS	YES																		
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CALIBRATION IDENTIFICATION: 2375																																																																							
MAGNETOMETER CALIBRATION																																																																							
<table border="1"> <tr><td>MAG.X</td><td>304.00</td><td>MAG.Y</td><td>301.00</td><td>MAG.Z</td><td>206.00</td></tr> <tr><td>MAX.</td><td>304.00</td><td>MIN.</td><td>55.00</td><td>57.00</td><td>144.00</td></tr> <tr><td colspan="6">CALIBRATION IDENTIFICATION: 2375</td></tr> </table>						MAG.X	304.00	MAG.Y	301.00	MAG.Z	206.00	MAX.	304.00	MIN.	55.00	57.00	144.00	CALIBRATION IDENTIFICATION: 2375																																																					
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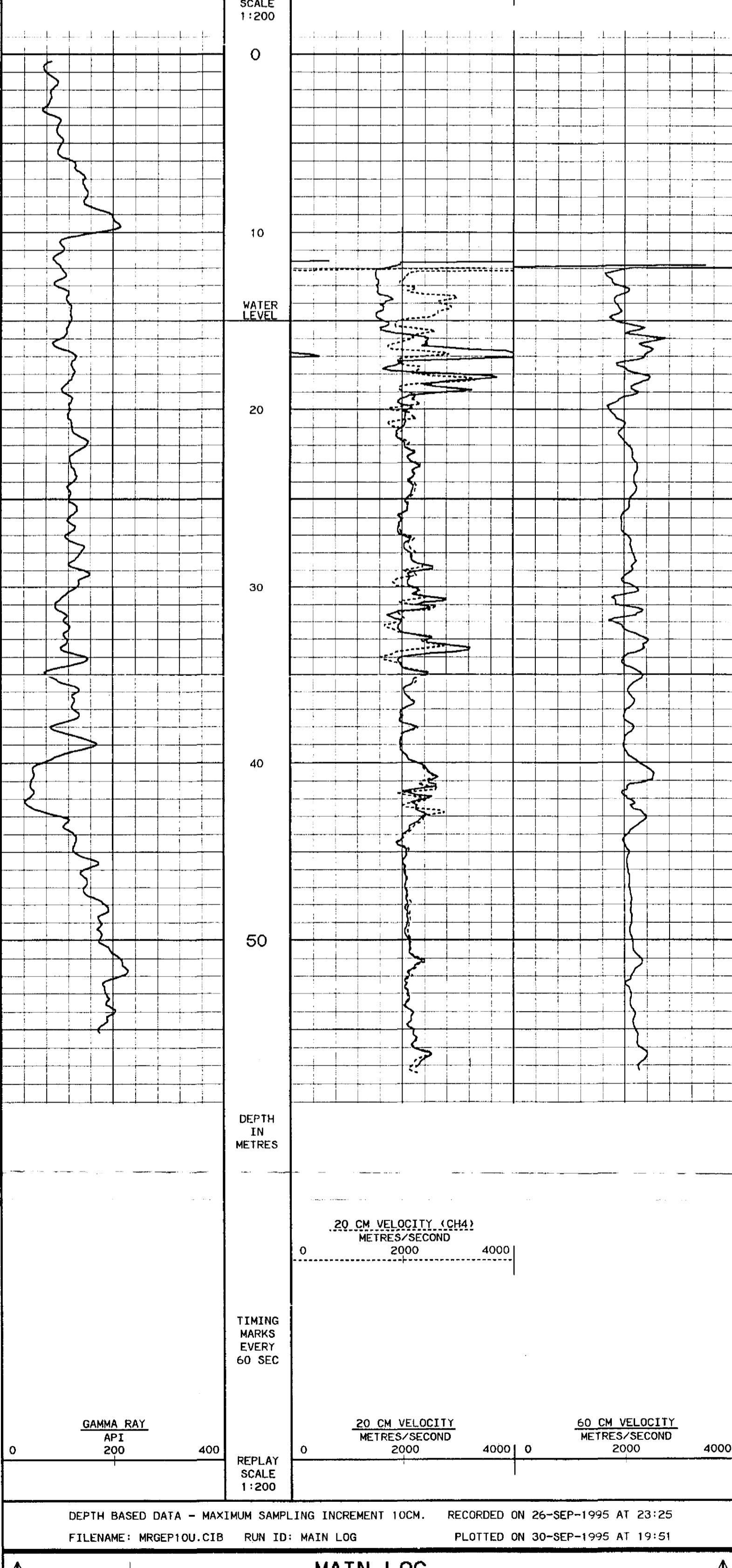
COMPANY					
BHP MINERALS					
WELL					
BCP 10					
FIELD					
BATTEN CREEK					
PRVNC/COUNTY					
NORTHERN TERRITORY					
CNTRY/STATE					
AUSTRALIA					

MULTI CHANNEL SONIC,  
GAMMA RAY LOG.



COMPANY	BHP MINERALS	
WELL	BCP 10	
FIELD	BATTEN CREEK	
PROVINCE/COUNTY	NORTHERN TERRITORY	
COUNTRY/STATE	AUSTRALIA	
LOCATION		
LOCN. PRVNC FIELD WELL:	BCP 10 COMPANY: BHP MINERALS	
LSD	SEC	TMP RGE
PERMANENT DATUM G.L. 0 M		
LOG MEASURED FROM G.L. 0 M		
DRILLING MEASURED FROM G.L.		
DATE	26-SEP-95	
RUN NUMBER	ONE	
DEPTH DRILLER	60 M	
DEPTH LOGGER	59 M	
FIRST READING	58 M	
LAST READING	0 M	
CASING-DRILLER		
BIT SIZE		
HOLE FLUID TYPE	WATER	
PH/FLUID LOSS		
SAMPLE SOURCE		
RHM @ MEAS TEMP		
RMC @ MEAS TEMP		
SOURCE: RME-RMC		
RH @ BATT		
MAX REC TEMP		
EQUIPMENT/BASE	V1337 PERTH	
RECORDED BY	R.A. LEES	
WITNESSED BY		

RUN NUMBER	BOREHOLE RECORD			CASING RECORD			
	BIT	FROM	TO	SIZE	WEIGHT	FROM	TO
ONE							
EQUIPMENT		RUN 1	RUN 2	RUN 3	RUN 4		
REMARKS							
MULTI CHANNEL SONIC, GAMMA RAY LOG.							
VERTICAL OPEN HOLE.							
GAMMA MERGED FROM GIS.							
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	BHP MINERALS		
WELL	BCP 10		
FIELD	BATTEN CREEK		
PRVNC/COUNTY	NORTHERN TERRITORY		
CNTRY/STATE	AUSTRALIA		