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CSR COAL DIVISION

FOR

AAR LIMITED

EXPLORATION LICENCE 20/80 - LAUNCESTON

EXPLORATION PROGRESS REPORT

FOR THREE MONTH PERIOD

ENDED 22 MAY 1982

MICROFILMED

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APPENDICES

1. EL20/80 - Details of Exploration Statistics

2 Reserves Calculations EL20/80 Launceston

6 See Below

3. EL 20/80 Copies of English Logs of Boreholes Drilled during October - December 1981.

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7. Drilling Proceedures

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* Appendices 7 and 8 will be forwarded under a separate cover upon completion.

1. SUMMARY

Exploration during the three month period included drilling within three brown coal bearing sub-basins in the Rosevale, Westwood and Selbourne areas of the Tertiary Launceston Basin which were delineated during the October- December 1981 drilling programme. The sub-basins are referred to as the Loatta, Pipers Lagoons and Selbourne sub-basins respectively.

Significant brown coal seams have been intersected. The seams which were used for reserve calculations occur at depths generally less than 60m. Drilling within the Pipers Lagoons and Loatta sub-basins during the October-December 1981 exploration programme delineated 54 Mt Class II Indicated Reserves and a small tonnage* of Inferred Reserves, (see Table 1) (Mengel, 1977). The results of the March-April 1982 exploration programme are currently being assessed. Reserve calculations, incorporating the 1982 drilling results, will be reported in the next 6 monthly report.

Analyses of 1981 core samples shows the coal to be a moderate ash, low sulphur brown coal. The average in situ quality of the brown coal reserves of Loatta and Pipers Lagoon are summarised in Table 1. Analysis of 1982 core samples is in progress, and the results will be presented in the next 6 monthly report.

TABLE 1

EL20/80 LAUNCESTON

IN SITU COAL RESERVES AND QUALITY

Sub Basin	Indicated Reserves 10^6 tonnes	Average Quality (in situ)			
		Moisture %	Ash %	Specific Energy MJ/kg	Sulphur %
Loatta	22	49.45	18.41	8.21	0.15
Pipers Lagoons	32	47.23	21.48	8.04	0.14

* small is defined as between 20 and 100 million tonnes.

2. INTRODUCTION

2.1 Scope of Report

This report details exploration for brown coal by CSR Limited on behalf of AAR Limited within EL20/80 Launceston during the three month period ended 22 May 1982.

2.2 Tenement Details

EL20/80 Launceston, covering an area of 2,339km^2, was granted to AAR Limited on 19 September 1980 for a term of one year.

An extension for a 6 month period was granted on 22 August, 1981. A further application for a twelve month extension of EL20/80 Launceston was made, and the EL was granted for the period 22 February, 1982 to 22 February, 1983.

2.3 Location and Access

EL20/80 Launceston extends from Campbell Town in the south-east, west to Deloraine, and north to Launceston, (Figure 1). It is located on the Meander, South Esk, and Tamar 1:100,000 Topographic Map Series.

The Bass and Midlands Highways traverse the area from east to west and north-west to south-east, respectively. The Western Line Railway also crosses the area in an east-west direction, through Perth, Longford and Westbury. The Southern Line Railway parallels the Midlands Highway between Powranna and Campbell Town, and junctions with the Western Line Railway at Western Junction (Figure 2).

Access in the northern sections of the EL (Westbury, Rosevale, Selbourne) is generally via sealed shire roads and well maintained farm tracks which enable good dry weather access. However, access can only be gained to some sites in the summer months as pastures are extremely boggy when wet. January through March is the ideal time for an exploration programme in the north of the EL.

Access in the southern sections of the EL (Conara, Campbell Town), where farms are larger, is predominantly through pastures, once off the sealed shire roads. The southern areas of the EL are drier than the north, and exploration is possible from January through to May.

2.4 Climate, Physiography and Land Use

The climate of the area is temperate. The annual average rainfall throughout the area ranges from approximately 500 to 1,000mm, and generally falls during the winter months, (Mathews, 1974).

The Launceston Basin is flat to gently undulating. It is surrounded on all sides by much higher terrain, notably the Great Western Tiers to the west and Ben Lomond to the east.

The major land use of EL20/80 Launceston is farming, predominantly sheep and cattle grazing. The Carrick-Westbury area is notable for its large number of horse, cattle and sheep studs, and intense cultivation of peas, beans, opium poppy, and cereal crops.

3. REGIONAL GEOLOGY

3.1 Stratigraphy

The regional stratigraphy of EL20/80 Launceston is summarised in Table 2.

3.2 Formation of the Basin

The Launceston Basin, contains the largest continuous area of unconsolidated Tertiary sediments in Tasmania. The sediments are primarly fluviatile in origin and have been unconformably deposited on Permian and Triassic sediments and Jurassic dolerites.

The main structural elements of the Launceston Basin were formed by pre-Tertiary and Tertiary faulting producing two grabens, the Cressey and Tamar Troughs. These are separated by a discontinuous central horst which is expressed in the Hummocky Hills and hills to the north of Perth extending north westerly to Carrick.

The Cressey Trough extends from Campbell Town through Cressey to Westbury, and the Tamar Trough extends from the present mouth of the Tamar River, through Launceston to Campbell Town.

Although the initial formation of the basin was structurally controlled, erasional processes and isostatic subsidence in response to loading of the land surface by Tertiary sediments may have played a secondary role.

3.3 Sedimentation

Deposition of sediments commenced in the Palaeocence - Lower Eocene and continued until the Upper Oligocene (Mathews, 1974). Sediments are predominantly non-marine clays, silts, sands and gravels with minor marine or brackish environment influences.

Environments of deposition were in a state of constant flux during the Tertiary, alternating from fluviatile to lacustrine, with swamps and subaerial facies. This is reflected by the rapid lateral facies changes interpreted from exploratory drilling.

The primary source of the sediments was the sandstones, siltstones and mudstones of the Permian and Triassic strata, and the Jurassic dolerite.

TABLE 2

EL20/80 LAUNCESTON

Regional Stratigraphy

AGE	STRATIGRAPHIC NAME	LITHOLOGY
Quaternary		Alluvium, terrace deposits, marsh and swamp deposits, boulder beds and gravel.
		Talus and scree derived from Permian, Triassic, Jurassic and Basalt.
Tertiary-Quaternary		Lag Deposits of ferruginous buckshot gravel and ferricrete.
Tertiary		Mid to Dark grey, commonly vesicular alkali-olivine basalts. These volcanic rocks are mainly confined lavas.

	Disconformity	
Tertiary		clay, silt, sand, lignite and oil shale
palaecene - Upper Oligocene	Launceston Beds	

	Unconformity	
Jurassic		Medium to coarse grained mid grey-green tholeiitic dolerite which has intruded into Permian and Triassic strata.
Triassic	Upper Parmeener Supergroup	Feldspathic sandstone, quartz sandstone, with coal measures occurring in the Upper Triassic.
Upper Permian	"	Cygnet Coal measures underlain by glacio-marine sequence of pebbly mudstone and pebbly sandstone.
Lower Permian	"	Freshwater strata including Mersey Coal Measure sandstones and shales, underlain by a glacio-marine sequence of pebbly mudstone, pebbly sandstone, minor limestone and commonly basal tillite.

4. GEOLOGY OF EL20/80 LAUNCESTON

4.1 Introduction

The geology of EL20/80 Launceston is outlined in previous exploration reports, (Osborne, 1981; Ellis, 1982).

Up to four brown coal seams generally occurring at depths of less than 60m have been intersected in the Loatta, Pipers Lagoons and Selbourne sub-basins. The brown coal deposits are delineated by 1.5m brown coal isopachs, (Figure 4.). The outline of further areas containing ligneous facies, that is, carbonaceous or ligneous clays interbedded with thin brown coal seams, is also shown in Figure 4.

On-going exploratory drilling and evaluation of geological and geophysical data during the quarter has resulted in the re-appraisal of seam correlations and conceptual depositional models.

The conceptual depositional models of brown coal formation are discussed in section 4.2, and the re-appraisal of seam correlations and seam namenclature is discussed in section 4.3.

Cross sections, including amended seam correlations, and detailed descriptions of seam splits, will be submitted in the next six monthly report.

4.1.1 Conceptual Depositional Models of Brown Coal in the Launceston Basin

Development of ligneous facies within the Launceston Basin is envisaged to have occurred in:-

i) narrow linear belts immediately adjacent to basement highs,

ii) restricted embayments of pre-Tertiary basement occurring along the Basin margins, and

iii) narrow linear troughs formed in response to syndepositional isostatic subsidence along basement faults.

Ligneous or any combination of these three facies show two trends of development in response to basin infilling. These trends are a reflection of the environment of deposition and nature of the sub-basin.

One example is depicted by Figure 3, which is a schematic representation of brown coal seams developed in a narrow linear belt adjacent to a basement high. It shows the development of successive coal seams at times T_1, T_2 and T_3, and that coal seams split and thin with increased distance away from the basement high. The thickest brown coal seams are developed closest to the basement highs.

The first brown coal seam develops at time T_1. This is followed by a period during which predominantly inorganic detritus is deposited. At time T_2 a stratigraphically higher coal seam develops. Similarly the thickest coal is developed closest to the basement high. This trend, whereby development of stratigraphically successive brown coal seams parellels the basement contours, occurs in relatively unrestricted areas of the Launceston Basin. That is, not in a sub-basin entirely bounded and constrained by basement highs.

The second trend of brown coal seam development occurs in restricted sub-basins that are constrained and bounded by basement highs. This trend is thought to occur in the Pipers Lagoons sub-basin. As the sub-basin infills with detritus, younger brown coal seams are developed away from the sub-basin margins towards its depocentre. Seam 1 of the Pipers Lagoons sub-basin, which is only developed between boreholes C022 and C033, is such an example. However, the upper seams in this sub-basin have been partly removed by erosion.

4.1.2 Re-Appraisal of Seam Correlations and Seam Nomenclature.

Correlation of brown coal seams has been made by use of characteristic down hole geophysical log signatures, and geological cross sections. The most distinctive geophysical log signatures are the Gamma and Density logs of Seam LBO of the Loatta Sub-basin and Seam PCO of the Pipers Lagoons Sub-basin.

Coal seams have only been correlated between drill holes within their respective sub-basin. There is insufficient information available to correlate seams between the various sub-basis.

It was stated in Ellis, (1982) that correlation could be made between Seam 3 (now LBO and LCO) of the Loatta sub-basin and Seam 3 (now PCO) of the Pipers Lagoons sub-basin. This is not considered to be the case following the evaluation of geophysical log signatures now available from the 1982 exploration programme. Major changes to seam correlations have been made in the Loatta sub-basin.

The seam nomenclature as reported previously, (Ellis, 1982) has been changed to avoid confusion between individual seams of the three sub-basins, and to facilitate encoding the seam designations onto computer log sheets. The following nomenclature, of two upper case english letters and one numeral, will be used to name the seams and seam splits. The letters S, L, and P will signify that the seam is in the Selbourne, Loatta and Pipers Lagoons sub-basin respectively.

Seams will be identified in descending stratigraphic order by the letters A, B, C, D and so on. Seam splits will be identified in descending order by numerals, 1, 2, 3 etc. The numeral, zero, will refer to the entire seam. For example, LB1 refers to the uppermost seam split of the second stratigraphically highest brown coal seam in the Loatta sub-basin.

Table 3 summarises the amendments made to seam nomenclature and correlations, showing in the left hand column the seam correlations as reported previously, (Ellis, 1982), and the amended seam designations in the right hand column.

TABLE 3

EL 20/80 LAUNCESTON

Amended Seam Nomenclature and Correlations

6 Monthly Period Ended 19th January, 1982	3 Monthly Period Ended 22nd May, 1982
Selbourne Sub-Basin	
-	SA0
-	SB0
-	SC0
-	SC0
Loatta Sub Basin	
$S1_1$	LA1
$S1_2$	LA2
$S1_3$	LA3
$S2_1$	LB1
$S2_2$	LB2
$S3_1$	LB1
$S3_2$	LB2
$S3_3$	LB3
$S3_4$	LC1
$S3_5$	LC2
$S3_6$	LC3
Pipers Lagoons Sub basin	
-	PA0
$S2_1$	PB1
$S2_2$	PB2
$S3_1$	PC1
$S3_2$	PC2
$S3_3$	PC3
$S4_1$	PD1
$S4_2$	PD2
$S4_3$	PD3

4.2 Loatta Sub-Basin

The northern and western limits of the Loatta sub-basin, that is north and west of cored hole C021, are constrained by outcropping Jurassic dolerite basement. A dolerite basement high extends on a northwest trend between rotary holes R010 and R001. Basement outcrops along the northwest margin on the Inglewood property. Basement highs which were intersected in rotary drill holes R017, and R011 dfelineate the maximum extent of the sub-basin to the south and southeast. The outline of the Loatta deposit as depicted in Figure 4 is defined by the 1.5 metre LA0 and LB0 seam brown coal isopachs.

Isopach maps of Seam LB0 of the Loatta Sub-basin where used for reserve calculations are included in Ellis (1982). Figure 4 shows that brown coal seams are present south of rotary hole R084. These seams extend southwards to rotary hole R018, but are not included in reserve calculations because rotary hole R018 is the only hole to have intersected brown coal seams thicker than 1.5m. Other holes R013, R014, R015 and R016 have only intersected lateral facies equivalents of brown coal (carbonaceous or ligneous clay containing thin brown coal seams). The drill hole spacing is considered inadequate to define reliable seam correlations and reserve calculations.

4.3 Pipers Lagoons Sub-basin

The northern and eastern extent of the Pipers Lagoons sub-basin is constrained by outcropping Jurassic dolerite. Basement highs which were intersected in rotry drill holes R0039 (formerly BH22), R011, and R010, constrain the limits of the sub-basin to the south, southwest and northwest respectively.

Isopach maps of Seams PC0 and PD0 are appended in Appendix 2, of Ellis, (1982).

Reserves of the Pipers Lagoons sub-basdin have been delineated by the 1.5m seam PC0 and PD0 isopachs, (Figure 4).

4.4 Selbourne Sub-basin

The Selbourne deposit has been defined by the 1.5m brown coal isopach. Development of brown coal seams thicker than 1.5m in the Selbourne sub-basin are not as tightly constrained by outcropping pre Tertiary basement as the brown coal seams of the Loatta and Pipers Lagoons sub-basins. The thickest accumulation of brown coal occurs towards the central portion of the sub-basin. Lateral facies equivalents of the brown coal, namely ligneous and carbonaceous clays, are developed in the peripheral areas of the sub-basin. Ligneous facies containing thin brown coal seams are developed between the Selbourne and Loatta sub-basins.

Four brown coal seams have been intersected in the Selbourne deposit, generally at depths less than 10m, except when they underlie Tertiary basalt. In such cases overburden is generally greater than 60 metres thick. Brown coal seams thin and split towards the margins of the deposit and dip shallowly in a southeasterly direction.

4.5 Pre Tertiary Basement Geology

Pre Tertiary rock has been intersected in 17 holes, with possibly a further two holes intersecting basement. Basement contours for the northern part of EL20/80 are shown in Figure 6. A map showing basement contours for the entire EL will be presented with the next six monthly report. A summary of basement lithotypes is presented in Table 4.

The dominant basement rock type is Jurassic dolerite. When intersected during rotary chip drilling, low strength and brittle weathered dolerite is commonly overlain by a mottled grey-green-blue sandy kaolinitic clay, which is decomposed dolerite. However, when this clay is tested for plasticity (that is by rolling it between forefinger and thumb) the kaolinized felspar sand behaves mechanically as if it were a clay.

In the Birralee area rotary chip holes R066 and R063 intersected Triassic quartzose sandstone at depths of 0.9 and 0.8 metres, below a soil horizon. Rotary chip holes R062 intersected reworked Triassic quartzose sandstone, gravelly sandstones, and micaceous sandy schists. Triassic strata ranges in thickness from 1.6 to 8.5m in this area. Underlying Permian strata (designated Pue on the Frankford 1:63,600 geological atlas), are mid to dark coloured low to medium strength brittle quartzose sandy siltstones.

In the Osmaston - Exton area rotary chip hole R093 intersected reworked Triassic detritus immediately below Tertiary basalt. A grey-purple coloured micaceous quartzose sandy clay interbedded with a micaceous purple-grey siltstone with pyrite along bedding planes was intersected at 32.5m. This lithology is most likely to be of Triassic age. Rotary chip hole R094 intersected a mid to dark grey low strength brittle pyritic siltstone at 5.5m. This lithology is similar to Quamby Mudstone.

Rotary chip holes R039 (formerly BH22) and R017 intersected carbonaceous siltstone with thin light grey bands and silty indurated clays interbanded with silicified mid to dark green shale. It has not been possible to associate these lithologies with any outcropping Permian or Triassic strata in the area. However, it is assumed that they are of Permian age.

Rotary chip hole R027 intersected weathered siltstone at 8.1m, and green-grey clay, silicified siltstone, and shale to 32m. The silicified shale was banded dark grey to black and contained sulfide mineralisation. The driller thought that the shale was similar to the Silurian Mathinna Slates. However, this lithology is probably Permian in age.

The two drill holes which possibly intersected pre Tertiary basement are R005 and R036 (formerly BH 27). Rotary hole R005, is thought to have intersected Jurassic dolerite. No cuttings were returned to the surface to allow positive identification of the lithotype. An alternative lithology that may have been intersected is siderite. Rotary hole R036 is thought to have intersected silicified Permian shale, although it was difficult to determine if the rock type was a fine grained Tertiary basalt.

TABLE 4

EL20/80 SUMMARY OF PRE-TERTIARY BASEMENT LITHOTYPES

BOREHOLE	DEPTH INTERSECTED (metres)	BASEMENT ROCK TYPE
R001	32.5	Dolerite
R005	53.6	? Dolerite
R010	57	Dolerite
R011	22.5	Dolerite
R017	22.9	Permian silicified shale, indurated silty clay
R027	8.1	? Silurian Mathinna Slates
R036	9.1	? Permian silicified shale
R039	37	Permian silicified shale
R062	7.0	Triassic quartzose sandstone
R063	0.8	Triassic quartzose sandstone
R066	0.9	Triassic quartzose sandstone
R070	76	Dolerite
R073	60	Dolerite
R081	84	Dolerite
R090	50.5	Dolerite
R091	44	Dolerite
R092	63.5	Dolerite
R093	32.5	Triassic siltstone
R094	5.5	Permian Quamby mudstone

5. EXPLORATION

5.1 Previous Exploration

Previous explortion for oil shale by AAR Limited and brown coal by CSR Limited within EL 20/80 Launceston is discussed in Osborne (1981), and Ellis (1982) respectively.

During 1981 AAR Limited conducted an exploration programme to investigate the occurrence of oil shale, primarily in the Carrick-Longford area. Their investigtions showed that thin oil shales are present in the Tertiary sequence in the Carrick area and reach a maximum thickness of 10 metres, yielding 49 litres/tonne at zero moisture. AAR Limited intersected ligneous facies including brown coal of significant thicknesses in the Rosevale-Westwood area.

A follow up exploration programme was conducted by CSR Limited, in conjunction with AAR Limited, in late 1981, to delineate the extent of brown coal and oil shale occurrences in the Rosevale-Westwood and Carrick-Longford areas.

5.2 Exploration during the Three Month Period

5.2.1 Summary

Exploration during the three month period included the March-April 1982 drilling programme. The results of this programme are currently being assessed. Twelve piezometers were installed by CSR Limited at seven drill sites. These piezometers will be monitored for a twelve month period by the Tasmanian Department of Mines hydrology staff.

Literature research at the Tasmanian Department of Mines and a follow up regional field mapping programme were undertaken during May, 1982.

The results of the October-December, 1981, exploration programme were assessed. This involved the depth correction of lithological logs using geophysical logs, and placing all drill hole data on the CSR computer based coalbor system. Detailed english and graphic logs of these drill holes have been obtained and are included under a separate cover in Appendices 3 and 4 respectively.

5.2.2 Exploratory Drilling during the Three Month Period

The drilling was undertaken by Deadline Drilling Pty. Ltd., of Brisbane, using a Mayhew 1,000 truck-mounted rig during the period 24th March to 22nd April, 1982. A total of 39 holes were drilled. Rotary chip drilling of 34 holes involved 2,525 metres of drilling with a further five 100mm (KMLC) partially cored holes which involved 115 metres of core and 33 metres of rotary chip drilling.

The typical drilling practice was to drill up to two metres with 6 3/4" or 5 5/8" diameter bits using compressed air to return cuttings. A conductor pipe and T-piece were then set in the hole. The bits were changed to 4 3/4" or 4 1/2" diameter and the circulating medium changed to water. Cuttings were then flumed from the stand pipe onto a (1/32" - 1/4") screen, from which samples were taken every metre. A detailed account of drilling precedures is included as Appendix 7.

A summary of exploration statistics for the three drilling programmes March-April 1981, October to December 1981 and March-April 1982 are contained in Table 5 while details of drill hole statistics are contained in Appendix 1. The location of drillholes in EL20/80 Launceston is shown in Figures 2 and 4.

5.2.3 Geophysical Logging

Thirty-seven of the thirty-nine holes drilled during the March-April 1982 exploration programme were geophysically logged. The logging was undertaken by Century Geophysical Corporation of Australia. The following suite of logs were run: Gamma, Self Potential, Resistivity, Neutron Density and Caliper. Three separate density-caliper probes were run with source to detector spacings of 45cm, 20cm and 10cm. A digital recording was made onto cartridge tape, and a printout of the logs was supplied in the field.

Copies of geophysical logs from the 1981 exploration programme and the March-April 1982 exploration programme are included under a separate cover as Appendix 5.

5.2.4 Rotary Chip Hole Logging.

During rotary chip drilling, cuttings were flumed onto a mesh screen and logged onto the CSR borehole log sheets. Samples were taken every metre. Contamination during drilling was minimal because the hole was flushed after every metre of penetration.

All borehole information is currently being encoded onto the CSR computer based Coalbar system. Detailed english and graphic logs of the drill holes will be included in the next six monthly report.

5.2.5 Core Drilling

Five sites were chosen within the Loatta, Pipers Lagoons and Selbourne sub-basins to cut 100mm diameter cores (KMLC) of significant brown coal seams. A Triefus triple tube type core barrel was used. These drill holes were usually chipped to one metre above the coal, and the full brown coal section of the strata was cored.

TABLE 5
EL20/80 LAUNCESTON
SUMMARY OF EXPLORATION STATISTICS

EXPLORATION PROGRAMME	NUMBER OF HOLES				METRES CHIPPED	METRES CORED
	TOTAL HOLES	DRILLED ROTARY CHIP	CORED	WIRELINE LOGGED		
March-April 1981	25	21	4	22	1568	54.5
October-December 1981	42	35	7	41	2373.5	218.8
March-April 1982	39	34	5	37	2558	115.49
TOTALS	106	90	16	100	6,499.5	388.79

5.2.6 Core Logging

All cores cut were logged within 20 to 30 minutes to avoid excessive moisture loss. Cores were logged in PVC splits to avoid contamination and core breakage.

All borehole information is currently being encoded onto the CSR computer based Coalbor System. Detailed english and graphic logs of the cored holes will be included in the next six monthly report.

5.2.7 Coal Sampling

Sampling procedure during the March-April 1982 drilling programme differed from the procedure of the October-December 1981 programme, in which selected representative samples were taken for moisture analysis and sealed in airtight PVC casing. During the March-April 1982 drilling programme all core samples were sealed in PVC bags, and all brown coal seams including roof and floor material analysed for total moisture and ash.

The sample intervals were selected to represent changes in lithology and /or composition and/or texture. Individual sample plies ranged in thickness from 0.5 to 1.5m. Samples were submitted to the NATA registered CSR Exploration and Evaluation Group Materials Laboratory in Brisbane.

5.2.8 Stage 1 Coal Analysis

Brown coal samples taken from the 100mm diameter cores during the October-December 1981 drilling programme were submitted to the NATA registered CSR Exploration and Evaluation Group Materials Laboratory for the following analysis:

- insitu moisture
- relative density
- proximate analysis)
- specific energy) air dried basis
- total sulphur)

The results of these analysis are summarised in Table 7. A linear regression were performed on these analysis and it was found that a significant correlation can be made between ash, specific energy and relative density.

Consequently, brown coal samples taken from the 100mm core during the March-April 1982 exploration programme will be analysed for the following:

- insitu moisture
- ash) air dried basis

5.2.9 Stage II Coal Analysis

Stage II analysis will not be commenced until the results of Stage I analysis have been received and assessed.

Stage II will involve composite samples of proposed mining sections to be tested for:

- proximate analysis
- specific energy
- total sulphur
- specific energy
- sodium
- trace elements)
- ultimate analysis) for selected coal composites
- ash analysis

5.2.10 Future Exploration

An exploration drilling programme is proposed for early 1983.

Work will be directed at delineating the extent of seams within all three sub-basins and defining the limits of the sub-basin boundaries.

Exploration will be undertaken in other areas of the EL to identify further shallow occurrences of Tertiary brown coal and Parmeener Super Group black coal.

6. COAL RESOURCES

6.1 Brown Coal Reserves

54 Mt in situ of Class II Indicated Reserves and small (28 Mt) Inferred Reserves (Mengel, 1977) have been defined in the Loatta and Pipers Lagoons sub-basins, (Table 6). (previously 51 Mt, Ellis, 1982) Detailed reserve calculations are included as Appendix 2. Brown coal reserves are calculated from data obtained during the October-December 1981 exploration programme. Amended reserve calculations will be presented in the next six monthly report.

Reserves have been calculated using a minimum 1.5m seam isopach limit. Stone bands greater than 0.5m and coal seams containing greater than 50% ash on a dry basis, have been excluded from calculations.

An RD of 1.2 has been used for brown coal where no coal analysis are available. Where analysis are available the weighted average RD for each specific seam split was used in calculating reserves.

Further exploration, as outlaid in Section 5.2.10 will be directed at identifying further reserves of brown and black coal with EL20/80.

TABLE 6

COAL RESERVES EL20/80 LAUNCESTON

SUB-BASIN	INSITU RESERVES	
	INDICATED ($\times 10^6$) tonnes)	INFERRED
LOATTA	22	small
PIPERS LAGOONS	32	
TOTALS	54	small

6.2 Brown Coal Quality

Analysis of core samples show that the coal is a typical brown coal with high moisture content, low specific energy, and in the case of Launceston Basin coal, has a moderate ash, and a low sulphur content.

Weighted average insitu seam and seam split quality, using a 50% dry basis ash cut off are presented in Tables 7, 8 9, 10, 11 and 12. Tables 9, 10, 11 and 12, which are the weighted average air dried seam and seam split quality, and copies of Laboratory analysis sheets, are included in Appendix 6.

TABLE 7

EL20/80 LAUNCESTON WEIGHTED AVERAGE INSITU COAL QUALITY

(Using RD and Insitu Coal Reserves)
50% Ash Dry Basis Cut off

SUB-BASIN	SPECIFIC ENERGY MJ/Kg	RELATIVE DENSITY gm/cc	ASH %	SULPHUR %	MOISTURE %
LOATTA	8.21	1.3	18.41	0.15	49.45
PIPERS LAGOONS	8.04	1.31	21.48	0.14	47.23

TABLE 8

EL20/80 LAUNCESTON WEIGHTED AVERAGE INSITU SEAM AND SEAM SPLIT QUALITY

(Using RD and Seam Split Reserves)
50% ASH DRY BASIS CUT OFF

SEAM	SPECIFIC ENERGY MJ/Kg	RD gm/cc	ASH %	SULPHUR %	MOISTURE %	RESERVE STATUS
LBO	8.1	1.31	19.43	0.15	48.79	II
PCO	7.97	1.32	21.61	0.14	47.19	II
PD1*	8.69	1.3	20.3	0.13	47.6	II
LAO	8.39	1.28	16.83	0.15	50.44	Inferred
PB1*	8.26	1.29	21.3	0.13	47.2	N/C
PB2*	8.26	1.29	19.3	0.08	48.9	N/C
SAO*	7.88	1.3	19.9	0.18	48.6	N/C
SCO*	7.29	1.34	24.7	0.17	45.7	N/C
SDO*	7.91	1.3	20.1	0.14	47.8	N/C

* Analysis available from only one cored hole.
N/C Not calculated as Reserves
II Class II Indicated Reserves

7. REFERENCES

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CSR Energy Division

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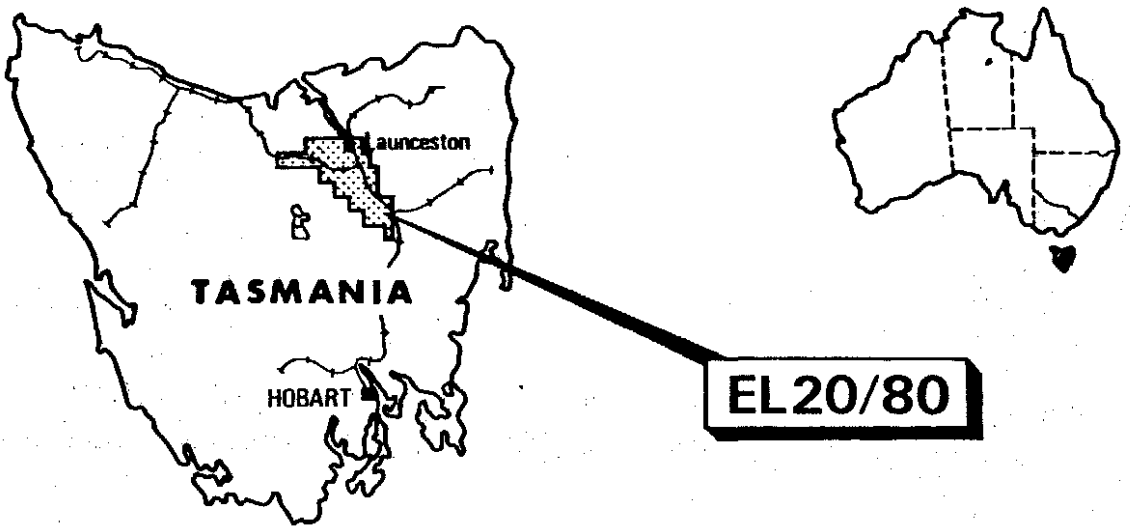

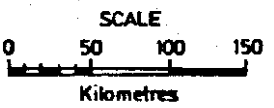

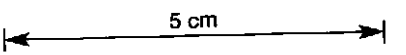

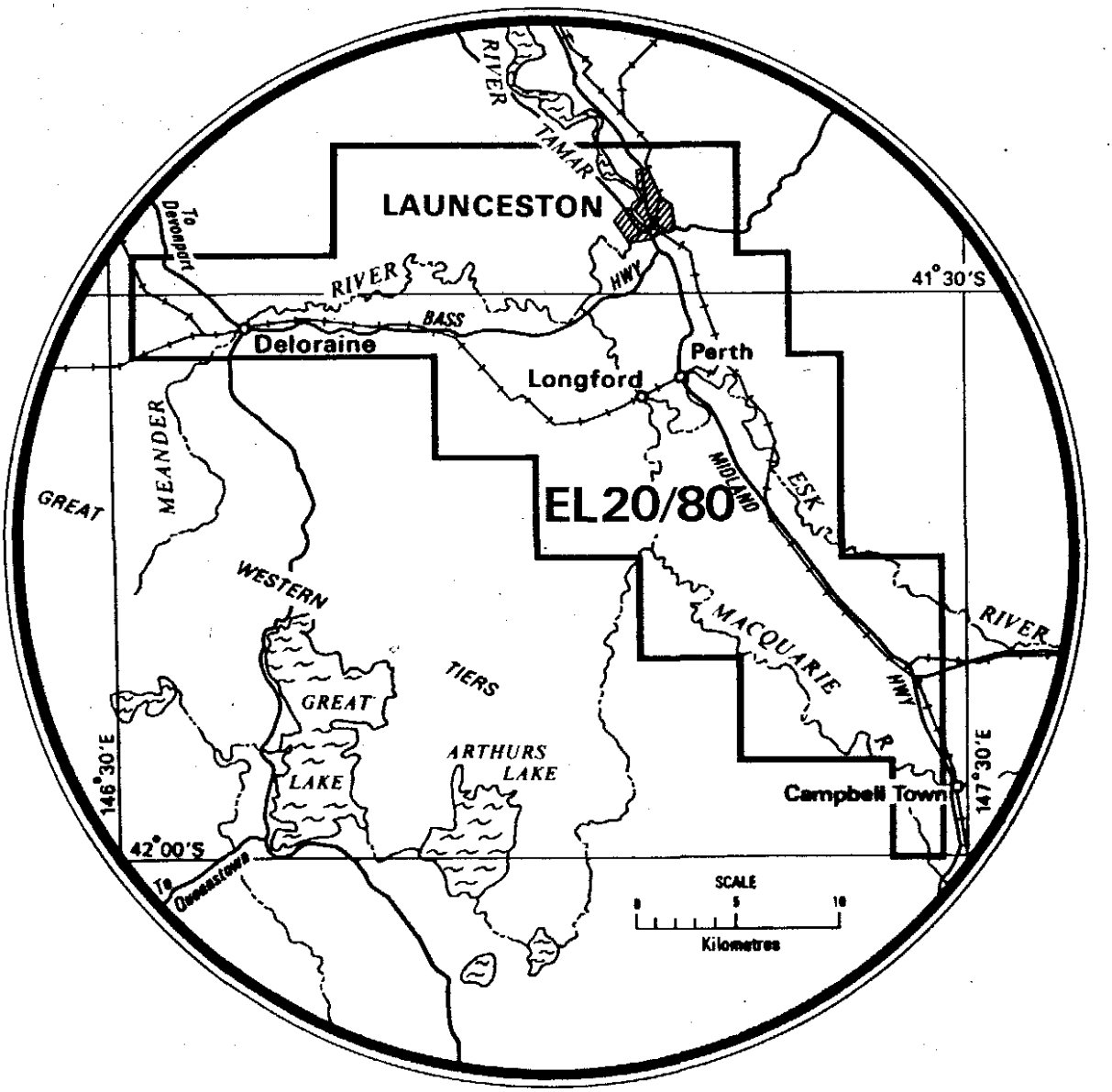

EL 20/80 LAUNCESTON TASMANIA

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FIGURE 1

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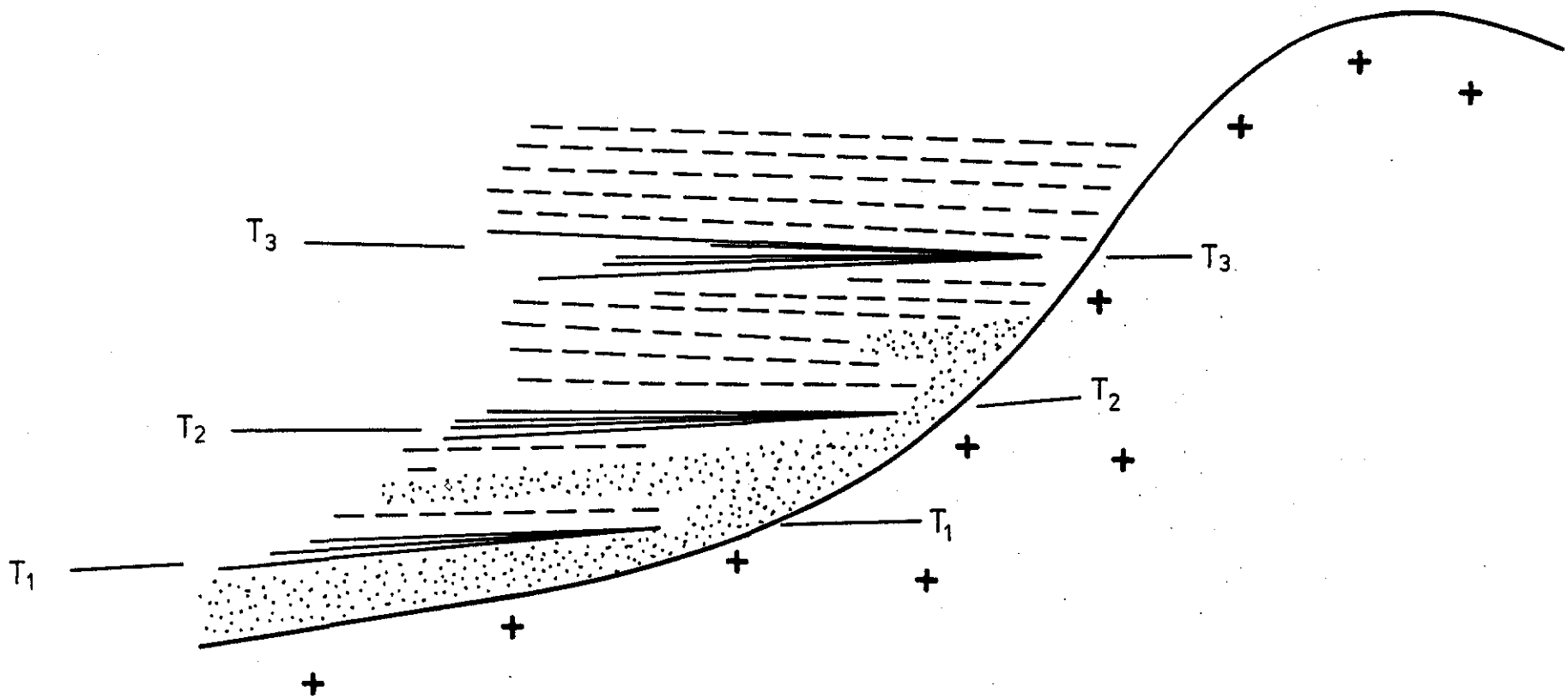

NOTE : LEGEND AS FOR FIGURE 6 ?

EL 20/80 LAUNCESTON

DEVELOPMENT OF LIGNEOUS FACIES

IN RESPONSE TO BASIN INFILLING

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FIGURE 3

APPENDIX I

EL20 DETAILS OF EXPLORATION STATISTICS

NOTE TO APPENDIX I

Appendix I contains borehole statistics previously submitted by AAR Limited (Osborne, 1981). This data is re-submitted, with the AAR borehole numbers changed to conform to the CSR borehole numbering system. Changes have been made to the AAR borehole numbers so that the AAR borehole logs can be placed on the CSR coalbor system.

APPENDIX 1

EL20/80 DETAILS OF EXPLORATION STATISTICS

DRILL HOLE NO.	AMG CO-ORDINATES		DATE COMMENCED	DATE COMPLETED	TOTAL DEPTH(m)	ROTARY OPEN HOLE (m)	KMLC CORE (m)	GEOPHYSICAL LOGGING				LOGGED DEPTH (m)
	NORTHING	EASTING						DENSITY	GAMMA	RESIST.	CALIPER	
R001	5414360	0493680	05.10.81	06.10.81	35.0	35.0	-	1	1	1	1	22.0
R002	5413200	0494160	06.10.81	07.10.81	72.0	72.0	-	1	1	1	1	37.0
R003	5411640	0486710	07.10.81	09.10.81	87.0	87.0	-	1	1	1	1	20.0
R004	5412960	0493260	09.10.81	12.10.81	90.0	90.0	-	1	1	1	1	56.0
C004	5412960	0493260	03.12.81	03.12.81	43.14	13.81	29.33	1	1	1	1	43.0
R005	5409370	0494590	13.10.81	14.10.81	53.60	53.6	-	1	1	1	1	30.0
R006	5410590	0496130	14.10.81	15.10.81	75.0	75.0	-	1	1	1	1	44.0
R007	5410920	0494140	15.10.81	17.10.81	87.0	87.0	-	1	1	1	1	84.0
R008	5408890	0495950	18.10.81	21.10.81	95.0	95.0	-	1	1	1	1	66.0
R009	5409490	0497360	21.10.81	22.10.81	75.0	75.0	-	1	1	1	1	58.0
R010	5412260	0494920	22.10.81	22.10.81	58.4	58.4	-	-	-	-	-	0
R011	5407490	0494650	23.10.81	27.10.81	28.8	28.8	-	1	1	1	1	27.0
R012	5409030	0487310	27.10.81	28.10.81	73.6	73.6	-	1	1	1	1	47.0
R013	5409000	0492720	28.10.81	30.10.81	80.0	80.0	-	1	1	1	1	64.0
R014	5410080	0492360	30.10.81	31.10.81	80.0	80.0	-	1	1	1	1	78.0
R015	6409060	0491340	31.10.81	01.11.81	54.4	54.4	-	1	1	1	1	51.0
R016	5407840	0490690	02.11.81	02.11.81	64.0	64.0	-	1	1	1	1	63.0
R017	5406310	0492140	03.11.81	03.11.81	33.0	33.0	-	1	1	1	1	30.0
R018	5408950	0492000	04.11.81	04.11.81	80.0	80.0	-	1	1	1	1	67.0
R019	5410940	0488160	04.11.81	05.11.81	80.0	80.0	-	1	1	1	1	54.0
C019	5410940	0488160	02.11.81	02.12.81	34.78	6.79	27.99	1	1	1	1	33.0
R020	5413720	0493150	05.11.81	06.11.81	80.0	80.0	-	1	1	1	1	78.0
R021	5412350	0493630	09.11.81	09.11.81	83.2	83.2	-	1	1	1	1	69.0
C021	5412350	0493600	04.12.81	06.12.81	79.47	40.84	38.63	1	1	1	1	79.0
R022	5413340	0495520	10.11.81	10.11.81	76.8	76.8	-	1	1	1	1	55.0
C022	5413340	0495520	25.11.81	28.11.81	63.55	31.66	31.86	1	1	1	1	63.0
R023	5410360	0497240	10.11.81	11.11.81	76.8	76.8	-	1	1	1	1	56.0
R024	5411150	0489430	11.11.81	12.11.81	76.2	76.2	-	1	1	1	1	75.0
R025	5410820	0491250	12.11.81	12.11.81	76.8	76.8	-	1	1	1	1	75.0
R026	5412960	0488610	13.11.81	14.11.81	79.5	79.5	-	-	-	-	-	0
R027	5396800	0535500	15.11.81	15.11.81	32.0	32.0	-	1	1	1	1	30.0

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APPENDIX 1

EL20/80 DETAILS OF EXPLORATION STATISTICS (Continued)

DRILL HOLE NO.	AMG CO-ORDINATES		DATE COMMENCED	DATE COMPLETED	TOTAL DEPTH(m)	ROTARY OPEN HOLE (m)	KMLC CORE (m)	GEOPHYSICAL LOGGING				LOGGED DEPTH (m)
	NORTHING	EASTING						DENSITY	GAMMA	RESIST.	CALIPER	
R028	5277000	0515500	21.11.81	21.11.81	70.2	70.2	-	1	1	1	1	66.0
R029	5390950	0512720	22.11.81	23.11.81	47.8	47.8	-	1	1	1	1	46.0
R030	5409790	0500760	23.11.81	23.11.81	33.0	83.0	-	1	1	1	1	72.0
R031	5409160	0500200	24.11.81	25.11.81	72.2	72.2	-	1	1	1	1	72.0
R032	5402160	0495360	28.11.81	30.11.81	50.21	36.52	13.69	1	1	1	1	50.0
R033	5410550	0496690	30.11.81	01.12.81	50.28	19.77	30.51	1	1	1	1	50.0
C004 Redrill	5412960	0493260	09.12.81	07.12.81	17.73	10.04	7.69	1	1	1	1	17.0
C033 Redrill	5410550	0496690	06.12.81	07.12.81	39.67	27.04	12.63	1	1	1	1	38.0
C021 Redrill	5412350	0493150	04.12.81	04.12.81	9.27	7.0	2.27	-	-	-	-	-

APPENDIX 1

EL20/80 DETAILS OF EXPLORATION STATISTICS (Continued)

CSR DRILL HOLE NO.	AAR DRILL HOLE NO.	AMG CO-ORDINATES		DATE COMMENCED	DATE COMPLETED	TOTAL DEPTH(m)	HMLC CORE (m)	KMLC CORE (m)	ROTARY OPEN HOLE (m)	GEOPHYSICAL LOGGING					LOGGED DEPTH (m)
		NORTHING	EASTING							DENSITY	GAMMA	RESIST.	CALIPER	SP	
C0042	BH 1	53924	05097	14/03/81	15/03/81	60	21	-	39	-	1	1	-	1	40
R0043	BH 2	53914	05093	16/03/81	17/03/81	91	3	-	88	-	1	1	-	-	50
R0044	BH 3	53904	05100	17/03/81	18/03/81	74	-	-	74	-	1	1	-	1	70
R0045	BH 4	53894	05098	18/03/81	19/03/81	42	-	-	42	-	1	1	-	-	33.5
R0046	BH 5	53911	05075	19/03/81	19/03/81	56	-	-	56	-	1	1	-	1	32
R0047	BH 6	53928	05079	20/03/81	20/03/81	52	-	-	52	-	1	1	-	1	43
R0048	BH 7	53965	05098	20/03/81	23/03/81	64	-	-	64	-	1	1	-	1	64
R0049	BH 8	53968	05087	23/03/81	23/03/81	39	-	-	39	-	-	-	-	-	-
R0050	BH 9	53962	05076	24/03/81	24/03/81	60	-	-	60	-	1	1	-	1	28
R0051	BH 10	53953	05066	24/03/81	25/03/81	60	-	-	60	-	-	-	-	-	-
R0052	BH 11	53923	05037	25/03/81	25/03/81	65	-	-	65	-	1	1	-	1	51
R0053	BH 12	53980	05058	25/03/81	25/03/81	60	-	-	60	-	1	1	-	1	60
R0054	BH 13	53971	05062	26/03/81	26/03/81	60	-	-	60	-	1	1	-	1	47
R0055	BH 14	53976	06014	26/03/81	27/03/81	65	-	-	65	-	1	1	-	1	56
C0056	BH 15	53993	04953	28/03/81	04/04/81	12	28.56	-	88.44	-	1	1	-	1	71
R0057	BH 16	54003	04976	27/03/81	28/03/81	70	-	-	70	-	1	1	-	1	70
R0058	BH 17	54948	05040	08.04.81	09/04/81	62	-	-	62	-	-	1	-	1	62
C0059	BH 18	54025	04963	04/04/81	05/04/81	52	15	-	52	-	1	1	-	1	32
R0060	BH 19	54035	05975	05/04/81	06/04/81	70	-	-	70	-	1	1	-	1	47
R0061	BH 20	54037	04994	06/04/81	06/04/81	22	-	-	22	-	-	1	-	-	-
R0033	BH 21	54103	04967	09/04/81	10/04/81	90	-	-	90	-	1	1	-	1	74
R0039	BH 22	54077	04961	10/04/81	10/04/81	38	-	-	38	-	1	1	-	1	37
R0040	BH 23	54119	04963	12/03/81	13/03/81	76	-	-	76	-	1	1	-	1	74.5
R0032	BH 24	54120	04954	13/03/81	14/04/81	98	-	-	98	-	1	1	-	1	98
R0041	BH 25	54106	04952	14/04/81	14/04/81	98	-	-	98	-	1	1	-	1	98
C0034	CR 19	54035	05975	16/11/81	18/11/81	49.6	-	28.6	21	1	1	1	1	-	48.0
R0035	BH 26	5403820	0497650	18/11/81	18/11/81	50.6	-	-	50.6	1	1	1	1	-	32.9
R0036	BH 27	5402220	0493100	19/11/81	19/11/81	11.0	-	-	11.0	-	-	-	-	-	0
R0037	BH 28	5400730	0495350	19/11/81	19/11/81	60.2	-	-	60.2	1	1	1	1	-	58.0
R0038	BH 29	53971	04969	20/11/81	20/11/81	95.4	-	-	95.4	1	1	1	1	-	95.0

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APPENDIX I

EL20/80 DETAILS OF EXPLORATION STATISTICS (Continied)

DRILL HOLE NO.	AMG CO-ORDINATES NORTHING	AMG CO-ORDINATES EASTING	COLLAR R.L. (m)	DATE COMMENCED	DATE COMPLETED	TOTAL DEPTH(m)	KMLC CORE (m) (m)	OPEN HOLE (m)	STAND. WATER LEVEL(m)	LOGGED DEPTH (m)	GEOPHYSICS DENSITY	GAMMA	RESIST.	CALIPER	SP
R0062	0485250	5415100	173	24/03/82	24/03/82	36.00	-	36.00			1	1	1	1	1
R0063	0485770	5413980	163	24/03/82	24/03/82	18.00	-	18.00			1	1	1	1	1
R0064	0487150	5410980	160	24/03/82	24/03/82	90.00	-	90.00			1	1	1	1	1
C0064	0487150	5410980	160	11/04/82	11/04/82	21.00	10.54	10.46			1	1	1	1	1
R0065	0487750	5412990	175	24/03/82	25/03/82	90.00	-	90.00			1	1	1	1	1
R0066	0485660	5411980	165	25/03/82	25/03/82	12.00	-	12.00			1	1	1	1	1
R0067	0496270	5411630	140	25/03/82	25/03/82	84.00	32.98	84.00			1	1	1	1	1
C0067	0496270	5411630	140	07/04/82		51.96	-	18.98			1	1	1	1	1
R0068	0496170	5411060	140	26/03/82	26/03/82	84.00	-	84.00			1	1	1	1	1
R0069	0493160	5414580	160	26/03/82	26/03/82	72.00	-	72.00			1	1	1	1	1
R0070	0493800	5413680	163	27/03/82	27/03/82	78.00	-	78.00			1	1	1	1	1
R0071	0495700	5411200	150	27/03/82	27/03/82	84.00	-	84.00			1	1	1	1	1
C0071	0495700	5411200	150	10/04/82	11/04/82	48.73	36.3 -	12.10			1	1	1	1	1
R0072	0495028	5411770	140	27/03/82	27/03/82	72.00	-	72.00			1	1	1	1	1
R0073	0495560	5413800	150	27/03/82	27/03/82	66.00	-	66.00			1	1	1	1	1
R0074	0495920	5412680	150	29/03/82	29/03/82	66.00	-	66.00			1	1	1	1	1
R0075	0488160	5410000	150	29/03/82	29/03/82	78.00	19.63 -	78.00			1	1	1	1	1
C0075	0488160	5410000	150	19/04/82		27.00	-	7.37			1	1	1	1	1
R0076	0487660	5411980	155	30/03/82	30/03/82	84.00	-	84.00			1	1	1	1	1
R0077	0488160	5411480	150	30/03/82	30/03/82	66.00	-	66.00			1	1	1	1	1
R0078	0488660	5409480	185	31/03/82	01/04/82	102.00	-	102.00			1				
R0079	0494280	5411900	176	01/04/82	02/04/82	114.00	-	114.00			1	1	1	1	1
R0080	0493940	5412980	175	02/04/82	04/04/82	114.00	-	114.00			1	1	1	1	1
R0081	0492650	5414660	155	04/04/82	04/04/82	90.00	-	90.00			1	1	1	1	1
R0082	0492970	5412445	200	05/04/82	06/04/82	143.00	-	143.00			1	1	1	1	1
R0083	0489800	5408750	165	13/04/82	13/04/82	84.00	-	84.00			1	1	1	1	1
R0084	0492740	5411150	180	13/04/82	14/04/82	126.00	-	126.00			1	1	1	1	1
R0085	0494700	5411350	140	14/04/82	15/04/82	102.00	-	102.00			1	1	1	1	1
R0086	0493950	5430000	160	15/04/82	15/04/82	90.00	-	90.00			1	1	1	1	1
R0087	0496500	5409560	170	10/04/82	11/04/82	102.00	-	102.00			1	1	1	1	1
R0088	0489640	5412500	205	15/04/82	16/04/82	6.00	-	6.00							
R0089	0495550	5409700	165	17/04/82	18/04/82	108.00	-	108.00			1	1	1	1	1
R0090	0490680	5412000	165	18/04/82	18/04/82	52.00	-	52.00			1	1	1	1	1
R0091	0492200	5411200	180	18/04/82	19/04/82	48.00	-	48.00			1	1	1	1	1
R0092	0484450	5406750	150	20/04/82	20/04/82	66.00	-	66.00							
R0093	0477500	5401000	220	20/04/82	21/04/82	36.00	-	36.00			1	1	1	1	1
R0094	0480500	5400500	200	21/04/82	21/04/82	24.00	-	24.00			1	1	1	1	1
R0095	0497300	5411100	145	22/04/82	22/04/82	90.00	-	90.00			1	1	1	1	1
C0020	0493150	5413660	140	12/04/82		36.00	26.48	9.52			1	1	1	1	1

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APPENDIX 2

RESERVE CALCULATIONS EL20/80 LAUNCESTON

APPENDIX 2
RESERVE CALCULATIONS EL20 LAUNCESTON
2A - LOATTA SUB-BASIN - INDICATED RESERVES

SEAM	CUMULATIVE COAL THICKNESS (m)			INDICATED CLASS II RESERVES INSITU COAL			
	RANGE	VALUE USED	AREA (km^2)	COAL VOLUME $m^3 \times 10^6$		RD	TONNES $\times 10^6$
LB1	1.5 - 3	2	0.54	1.08			
	3 - 4	3	0.79	2.37			
	4 - 5	4	0.04	0.16			
					3.61	1.29	4.66
LB2	1.5 - 3	2	0.69	1.38			
	3 - 4	3	0.31	0.93			
	4 - 5	4	0.3	1.2			
	5 - 6	5	0.41	2.05			
	11 - 12	11	0.05	0.55			
					6.11	1.33	8.13
LB3	1.5 - 3	2	0.34	0.68			
	3 - 4	3	0.16	0.48			
	4 - 5	4	0.05	0.2			
					1.36	1.29	1.75
LC1	1.5 - 3	2	0.43	0.86			
	3 - 4	3	0.82	2.46			
	4 - 5	4	0.09	0.36			
					3.68	1.2	4.42
LC2	1.5 - 2	1.5	1.22	1.83			
	2 - 3	2	0.51	1.02			
					2.85	1.2	3.42
TOTAL					17.61		22.37

APPENDIX 2 (Continued)

2B - LOATTA SUB-BASIN - INFERRED RESERVES

SEAM	CUMULATIVE COAL THICKNESS (m)			INFERRED RESERVES INSITU COAL			
	RANGE	VALUE USED	AREA (km^2)	COAL VOLUME $m^3 \times 10^6$		RD	TONNES $\times 10^6$
LA2	1.5 - 2	2	2	4		1.26	5.04
LA3	1.5 - 3	2	2	4		1.29	5.16
					8		
LB1	1.5 - 3	2	0.51	1.02			
	3 - 4	3	1.32	3.96			
	4 - 5	4	0.42	1.68			
					6.66	1.29	8.59
LB3	1.5 - 2	1.5	1.2	1.8	1.8	1.29	2.32
LC1	1.5 - 3	2	0.87	1.74	1.74	1.2	1.09
LC2	1.5 - 2	1.5	1.22	1.83			
	2 - 3	2	0.51	1.02			
					2.85	1.2	3.42
LC3	4 - 5	4	0.5	2	2	1.2	2.40
TOTALS					23.55		28.02

APPENDIX 2 (Continued)

2C - PIPERS LAGOONS SUB-BASIN - INDICATED RESERVES

SEAM	CUMULATIVE COAL THICKNESS (m)			INDICATED CLASS II RESERVES INSITU COAL			
	RANGE	VALUE USED	AREA (km^2)	COAL VOLUME $m^3 \times 10^6$		RD	TONNES $\times 10^6$
PC1	1.5 - 2	1.5	1.15	1.73			
	2 - 3	2	0.39	0.78			
	3 - 4	3	0.16	0.48			
					2.99	1.2	3.59
PC2	2 - 3	2	0.55	1.1			
	3 - 4	3	2.46	7.38			
	4 - 5	4	1.22	4.88			
	5 - 6	5	0.06	0.3			
	6 - 8	7	0.05	0.35			
	8 - 9	8	0.06	0.48			
					14.49	1.32	19.13
PC3	1.5 - 3	2	1.74	3.48			
	3 - 4	3	0.34	1.02			
					4.5	1.3	5.85
PD1	8 - 9	8	0.27	2.16		1.3	2.81
PD3	2.5 - 3	2.5	0.27	0.68		1.2	0.82
TOTALS					24.82		32.19

APPENDIX 6

EL20/80 LAUNCESTON

WEIGHTED AVERAGE AIR DRIED AND INSITU

SEAM AND SEAM SPLIT QUALITY

50% ASH DRY BASIS CUT OFF

NOTE TO APPENDIX 6

Coal Analysis Test Sheets enclosed in Appendix 6 are copies of Laboratory coding sheets.

Computer printed coal Analysis Tables will be presented in the next six monthly report.

APPENDIX 6
TABLE 9

EL20/80 LAUNCESTON

WEIGHTED AVERAGE INSITU
SEAM SPLIT QUALITY
(Using Seam Thickness and RD)
50 ASH DRY BASIS CUT OFF

SEAM	SPECIFIC ENERGY MJ/kg	RD gm/cc	ASH %	SULPHUR %	MOISTURE %	INSITU COAL	
						Mt	RESERVE STATUS
LA2*	8.51	1.26	14.5	0.14	51.7	5.04	Inferred
LA3*	8.27	1.29	19.1	0.15	49.2	5.16	Inferred
LB1+	8.38	1.29	18.18	0.15	49.29	4.66	II
LB2+	7.91	1.33	20.19	0.15	48.51	8.13	II
LB3*	8.22	1.31	19.43	0.15	48.8	1.75	II
PB1*	8.26	1.29	21.3	0.13	47.2	-	N/C
PB2*	8.26	1.29	19.3	0.08	48.9	-	N/C
PC2*	7.87	1.32	22.07	0.14	46.95	19.13	II
PC3+	8.31	1.3	20.1	0.15	47.98	5.85	II
PD1	8.69	1.3	20.3	0.13	47.6	2.81	II
SA0*	7.88	1.3	19.9	0.18	48.6	-	N/C
SC0*	7.29	1.34	24.7	0.17	48.6	-	N/C
SD0*	7.91	1.3	20.1	0.14	47.8	-	N/C

NOTE: It has been assumed that cored holes have equal area influence over their respective sub-basins.

* Analysis available from only one cored hole
\+ Analysis available from two cored holes

II Class II Indicated Reserves
N/C Not calculated as Reserves

APPENDIX 6
TABLE 10

EL20/80 LAUNCESTON

WEIGHTED AVERAGE AIR DRIED BASIS
SEAM AND SEAM SPLIT QUALITY
(Using Seam Thickness and RD)
50% ASH DRY BASIS CUT OFF

SEAM	SPECIFIC ENERGY MJ/Kg	RD gm/cc	ASH %	SULPHUR %	INHERENT MOISTURE %	INSITU COAL	
						Mt	RESERVE STATUS
LA2*	14.56	1.54	24.9	0.26	17.3	5.04	Inferred
LA3*	13.36	1.57	30.8	0.20	18.0	5.16	Inferred
LB1+	13.71	1.58	30.14	0.25	16.16	4.66	II
LB2+	11.65	1.60	34.62	0.24	18.42	8.13	II
LB3*	12.59	1.53	28.5	0.23	21.6	1.75	II
PB1*	12.17	1.5	31.4	0.2	22.22	-	N/C
PB2*	12.72	1.51	28.3	0.11	22.1	-	N/C
PC2*	12.06	1.59	33.83	0.22	18.65	19.13	II
PC3+	13.22	1.56	31.27	0.20	18.50	5.85	II
PD1	12.35	1.48	28.4	0.19	25.2	2.81	II
SA0*	12.29	1.56	31.1	0.28	19.8	-	N/C
SC0*	11.22	1.65	27.5	0.26	16.4	-	N/C
SD0*	13.1	1.62	33.3	0.24	13.6	-	N/C

NOTE: * Analysis available from only one cored hole
+ Analysis available from two cored holes

II Indicated Class II Reserves
N/C Not calculated as Reserves

APPENDIX 6

TABLE 11

EL20/80 LAUNCESTON

WEIGHTED AVERAGE AIR DRIED BASIS
SEAM QUALITY
(Using RD and Seam Split Reserves)
50 ASH DRY BASIS CUT OFF

SEAM	SPECIFIC ENERGY MJ/Kg	RD gm/cc	ASH %	SULPHUR %	INHERENT MOISTURE %	RESERVE STATUS
LAO	13.95	1.56	27.88	0.23	17.65	Inferred
LBO	12.42	1.59	32.45	0.24	18.08	II
PB1*	12.17	1.5	31.4	0.2	22.2	N/C
PB2*	12.72	1.51	28.3	0.11	22.1	N/C
PCO	12.33	1.58	33.23	0.22	18.61	II
PD1*	12.35	1.48	28.4	0.19	25.2	II
SAO*	12.29	1.56	31.1	0.28	19.8	N/C
SCO*	11.22	1.65	27.5	0.26	16.4	N/C
SDO*	13.1	1.62	33.3	0.24	13.6	N/C

* Analysis available from only one cored hole

II Indicated Class II Reserves
N/C Not calculated as Reserves

APPENDIX 6
TABLE 12

EL20/80 LAUNCESTON

WEIGHTED AVERAGE AIR DRIED COAL QUALITY
(Using RD and In situ Coal Reserves)

SUB-BASIN	SPECIFIC ENERGY MJ/Kg	RD gm/cc	ASH %	SULPHUR %	INHERENT MOISTURE %
LOATTA	13.04	1.57	30.62	0.24	17.9
PIPERS LAGOONS	12.33	1.57	32.79	0.21	19.25

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TENEMENT CODE	
RECORD CODE	TYPE
1 0 0	
TEST DATE	LAB
27 01 81	BR
RESULT BASIS	AD

THIESS BROS. PTY. LIMITED — MINING DIVISION

PROJECT NAME	TENEMENT No.	AREA
LAUNCESTON	EL20/80	

LAB TEST REQUEST No. 4805-8
LAB TESTER/CHECKER
AUTHORISING INITIALS
SHEET 1 of 4

Date: 1 Feb 81

COAL ANALYSIS TEST SHEET No. 1

TP 816

LABORATORY SAMPLE NUMBER	FIELD SAMPLE NUMBER	BOREHOLE NUMBER	SEAM NAME	TYPE	BASE DEPTH	THICKNESS	SIZE CODE -/+	FRACTION	RAW WT.	RD	SIZE/FLOAT YIELD %	PROXIMATE ANALYSIS % BY WEIGHT: INHERENT MOISTURE	VOLATILE MATTER	ASH	FIXED CARBON	CSN	SPECIFIC ENERGY	TOTAL SULPHUR % WT	COMPOSITE SAMPLES	CONTIN
A59367	C27553	C00119			6.92	0.27		RAW		1.45		1.90	37.7	13.6	29.7					
59368	2757				8.90	0.30				1.81		8.1	28.5	49.3	14.1		9.80	0.32		
59369	2760				15.06	0.26				1.77		13.0	25.4	48.9	12.7		8.42	0.25		
59370	2766				18.30	0.25				1.69		16.0	25.6	41.8	16.6		9.54	0.27		
59371	2770				22.34	0.40				1.61		18.2	27.7	34.2	19.9		11.68	0.27		
59372	2774				25.74	0.29				2.04		10.6	18.7	64.6	6.1		4.20	0.13		
59373	2775				26.78	0.33				1.62		17.2	29.0	34.7	19.1		11.96	0.27		
59374	2778				28.65	0.23				1.53		10.3	41.3	25.2	23.2		13.72	0.26		
59375	2780				29.33	0.21				1.62		19.2	26.8	38.9	15.1		10.24	0.23		
59376	2786	C00004			14.93	0.30				1.48		20.6x	32.2	23.1	24.1		14.64	0.36		
59377	2786				16.28	0.27				1.54		18.8x	30.3	28.9	22.0		12.94	0.29		
59378	2798				19.01	0.22				1.51		21.5x	30.2	25.3	23.0		13.08	0.26		
59379	2797				21.75	0.27				1.50		23.1x	29.5	27.1	20.3		12.62	0.27		
59380	2797				22.45	0.23				1.79		9.2x	29.1	47.4	14.3		9.42	0.25		
59381	2802				23.72	0.29				1.47		2.98x	32.6	20.4	26.2		15.20	0.27		
59382	2805				26.54	0.34				1.46		1.96x	32.6	20.7	25.1		15.04	0.29		
59383	2803				28.37	0.32				1.50		2.01x	30.5	24.7	24.7		14.18	0.28		
59384	2810				29.06	0.28				1.55		1.26	2.58	54.4	9.2		7.44	0.27		
59385	2811				40.67	0.25				1.72		1.46	2.53	41.5	16.6		9.78	0.23		
59386	2827	C00021			10.44	0.28				1.45		9.6	33.1	39.1	18.2		15.32	0.25		

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THIESS BROS. PTY. LIMITED — MINING DIVISION

TENEMENT CODE	
RECORD CODE	TYPE
1 0 0	
TEST DATE	LAB
27 01 81	BR
RESULT BASIS	AD

PROJECT NAME	TENEMENT No.	AREA
TASMANIA	EL 20/80	

LAB TEST REQUEST No.
LAB TESTER/CHECKER
AUTHORISING INITIALS
SHEET

2 of 4

COAL ANALYSIS TEST SHEET No. 1

TP 816

LABORATORY SAMPLE NUMBER	FIELD SAMPLE NUMBER	BOREHOLE NUMBER	SEAM NAME	TYPE	BASE DEPTH	THICKNESS	SIZE CODE −|+	FRACTION	RAW WT.	RD	SIZE/FLOAT YIELD %	PROXIMATE ANALYSIS % BY WEIGHT: INHERENT MOISTURE	VOLATILE MATTER	ASH	FIXED CARBON	CSN	SPECIFIC ENERGY	TOTAL SULPHUR % WT	COMPOSITE SAMPLES	CONTIN
A59387	C 2831	C0021			13.50	0.30		RAW		1.63	✓ ✓	2.09	26.2	36.8	16.1	✓	8.88	0.19	–	
59388	2835				15.82	0.32				1.59	✓ ✓	1.93	27.9	33.1	19.7	✓	11.94	0.19	–	
59389	2838				18.62	0.32				1.55	✓ ✓	2.31	28.2	27.6	21.1	✓	12.58	0.16	–	
59390	2842				20.79	0.37				1.37	✓ ✓	3.86	23.1	21.4	16.9	✓	10.14	0.15	–	
59391	2849				45.32	0.34				1.65	✓ ✓	1.34	29.1	37.0	20.5	✓	12.24	0.21	–	
59392	2853				48.53	0.36				1.62	✓ ✓	1.57	28.6	36.4	19.3	✓	12.26	0.26	–	
59393	2857				50.57	0.28				1.51	✓ ✓	2.21	28.9	28.6	20.4	✓	12.72	0.29	–	
59394	2860				52.21	0.40				1.49	✓ ✓	2.30	28.9	25.1	23.0	✓	13.38	0.26	–	
59395	2862				53.97	0.28				1.65	✓ ✓	1.38	28.6	38.4	19.2	✓	12.20	0.22	–	
59396	2872				32.09	0.28				1.55	✓ ✓	1.87	29.8	31.3	20.2	✓	12.68	0.12	–	
59397	2876				34.22	0.22				1.60	✓ ✓	1.81	25.8	36.4	19.7	✓	11.30	0.08	–	
59398	2880				37.03	0.24				1.66	✓ ✓	1.56	27.2	40.6	16.6	✓	10.96	0.08	–	
59399	2885	C0004			12.26	0.30				1.39	✓ ✓	2.79	30.3	18.1	23.8	✓	14.06	0.43	–	
59400	2637	C0022			9.59	0.38				1.59	✓ ✓	2.08	27.7	35.1	16.4	✓	10.80	0.29	–	
59401	2641				11.69	0.32				1.56	✓ ✓	1.99	28.4	34.7	17.0	✓	10.90	0.23	–	
59402	2643				12.58	0.38				1.46	✓ ✓	2.41	30.6	25.8	19.5	✓	13.04	0.25	–	
59403	2647				15.36	0.35				1.54	✓ ✓	1.80	30.8	33.1	19.1	✓	12.40	0.22	–	
59404	2650				17.25	0.41				1.79	✓ ✓	1.58	21.1	51.7	11.4	✓	6.56	0.19	–	
59405	2659				23.21	0.40				1.48	✓ ✓	1.99	33.3	27.2	19.6	✓	14.00	0.28	–	
59406	2662				24.36	0.29				1.50	✓ ✓	2.13	30.6	26.5	21.6	✓	13.44	0.21	–	
																			–	
																			–	

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THIESS BROS. PTY. LIMITED — MINING DIVISION

TENEMENT CODE	
RECORD CODE	TYPE
1 0 0	
TEST DATE	LAB
27 01 81	BK
RESULT BASIS	AD

PROJECT NAME	TENEMENT No	AREA
TASMANIA	EL 20/80	

LAB TEST REQUEST No.
LAB TESTER/CHECKER
AUTHORISING INITIALS
SHEET 3 of 4

COAL ANALYSIS TEST SHEET No. 1

TP 816

LABORATORY SAMPLE NUMBER	FIELD SAMPLE NUMBER	BOREHOLE NUMBER	SEAM NAME	TYPE	BASE DEPTH	THICKNESS	SIZE CODE - | +	FRACTION	RAW WT.	RD	SIZE/FLOAT YIELD %	PROXIMATE ANALYSIS % BY WEIGHT: INHERENT MOISTURE	VOLATILE MATTER	ASH	FIXED CARBON	CSN	SPECIFIC ENERGY	TOTAL SULPHUR % WT	COMPOSITE SAMPLES	CONTIN
59407	2668	C0022			50.11	0.41		RAW		1.49		2.19	31.13	25.16	21.12		13.810	0.94		
59408	2670				51.08	0.38				1.52		1.99	31.16	27.44	21.11		13.610	0.90		
59409	2674				53.45	0.34				1.37		3.17	26.18	18.16	2.09		13.12	0.17	53.63 - 53.77	
59410	2675									1.85		1.87	25.16	5.23	1.32		8.128	0.14	54.52 - 54.73	
59411	2680									1.77		1.011	2.85	47.5	1.39		9.164	0.16	60.55 - 60.78	
59412	2686	C0032								1.85		1.42	2.112	5.51	19.5		5.93	0.21	61.84 - 62.16	
59413	2691				39.94	0.18				1.67		1.449	2.69	38.10	19.1		10.918	0.23	35.27 - 36.47	
59414	2693				41.03	0.24				1.56		1.516	3.34	31.14	19.6		1.42.10	0.20	37.25 - 37.48	
59415	2695				42.02	0.18				1.52		2.210	2.90	26.15	22.14		1.311.2	0.15		
59416	2697				43.02	0.30				1.54		2.010	3.13	27.16	21.11		13.714	0.14		
59417	2700				44.77	0.28				1.85		1.12	2.38	53.16	1.14		7.70	0.10		
59418	2701				45.00	0.31				1.57		2.013	2.610	35.14	1.613		1.15.8	2.1.0		
59419	2704				48.26	0.44				1.93		1.41	1.84	59.5	18.0		1.47.0	0.07		
59420	2708	C0033			9.10	0.38				1.44		2.14	3.18	21.19	1.619		13.168	0.94		
59421	2709				9.90	0.54				1.57		2.21	2.61	3.61	1.517		1.0.32	0.14		
59422	2711				11.84	0.40				1.59		1.91	2.60	3.59	1.79		1.13.4	0.15		
59423	2714				12.54	0.29				1.51		1.76	3.34	2.56	2.30		1.513.0	0.13		
59424	2716				13.22	0.28				1.52		1.98	3.91	2.62	2.19		13.614	0.13		
59425	2721				24.89	0.34				1.72		1.512	2.44	43.7	1.67		1.9.50	0.10		
59426	2725				32.12	0.35				1.48		2.07	3.21	2.31	2.41		1.4.48	0.09		

1 2 3 4 5 6 | 7 8 9 10 11 12 | 13 14 15 16 17 18 19 20 21 | 22 23 24 25 26 27 28 29 30 | 31 32 | 33 34 35 36 37 38 39 40 | 41 42 43 | 44 45 46 47 48 | 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 | 65 66 67 68 69 70 | 71 72 73 74 | 75 76 77 78 79 80 81 82 83 84

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051

THIESS BROS. PTY. LIMITED — MINING DIVISION

TENEMENT CODE		
RECORD CODE		TYPE
1 0 0		
TEST DATE		LAB
27/01/81		RL
RESULT BASIS		AD

PROJECT NAME	TENEMENT No.	AREA
TARKANIA	EL 20/80	

LAB TEST REQUEST No.
LAB TESTER/CHECKER
AUTHORISING INITIALS
SHEET 4 of 4

COAL ANALYSIS TEST SHEET No. 1

TP 816

LABORATORY SAMPLE NUMBER	FIELD SAMPLE NUMBER	BOREHOLE NUMBER	SEAM NAME	TYPE	BASE DEPTH	THICKNESS	SIZE CODE − | +	FRACTION	RAW WT.	RD	SIZE/FLOAT YIELD %	PROXIMATE ANALYSIS % BY WEIGHT: INHERENT MOISTURE	VOLATILE MATTER	ASH	FIXED CARBON	CSN	SPECIFIC ENERGY	TOTAL SULPHUR % WT	COMPOSITE SAMPLES	CONTIN
59A27	C 2730	C0033			33.10	0.34		RAW		1.67	✓	1.27	29.13	31.54	32.16	✓	13718	0.09		
59A28	2732				33.96	0.30				1.63	✓	6.15	25.58	46.02	17.15	✓	19914	0.07		
59A29	2736				36.74	0.28				1.48	✓	23.16	29.71	26.10	20.05	✓	13130	0.12		
59A30	2742				46.57	0.31				1.59	✓	15.16	29.16	33.18	21.10	✓	13126	0.17		
59A31	2747	C0019			47.15	0.17				1.82	✓	14.11	30.14	51.03	11.15	✓	6971	0.91		
59A32	2751				57.74	0.30				1.45	✓	25.14	30.15	25.19	18.12	✓	12138	0.32		
59A33	2888	C0004			14.32	0.27				1.61	✓	17.10	28.14	35.10	19.16	✓	12200	0.24		
59A34	2892				16.45	0.27				1.67		17.13	24.14	40.14	15.10	✓	9184	0.15		

1 2 3 4 5 6 | 7 8 9 10 11 12 | 13 14 15 16 17 18 19 20 21 | 22 23 24 25 26 27 28 29 30 | 31 32 | 33 34 35 36 37 38 39 40 | 41 42 43 44 45 46 47 48 | 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 | 65 66 67 68 69 70 71 72 73 74 | 75 76 77 78 79 80 81 82 83 84

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052

TENEMENT CODE		
RECORD CODE		TYPE
3	0	0
TEST DATE		LAB
21/9/81		BIR

THIESS BROS. PTY. LIMITED — MINING DIVISION

PROJECT NAME	TENEMENT No.	AREA
LAUNCESTON	EL 20/80	

LAB TEST REQUEST No. P. ELLIS 4805-8
LAB TESTER/CHECKER
AUTHORISING INITIALS
SHEET 1 of 4

COAL ANALYSIS TEST SHEET No. 3

TP 818

LABORATORY SAMPLE NUMBER	FIELD SAMPLE NUMBER	BOREHOLE NUMBER	TYPE	SIZE CODE	FRACTION	ASH FUSION TEMP °C (OXIDISING) Initial Deformation	Spherical	Hemisphere	Flow	ASH FUSION TEMP °C (REDUCING) Initial Deformation	Spherical	Hemisphere	Flow	MOISTURE HOLD. CAP % WT	TOTAL MOISTURE % WT	HGI	CONTIN
59367	2753	C0019													60.2		
59368	2757														42.4		
59369	2760														41.2		
59370	2766														46.4		
59371	2770														47.4		
59372	2774														31.9		
59373	2775														T		
59374	2778														T		
59375	2780														45.5		
59376	2786	C0004													54.3		
59377	2789														44.8		
59378	2793														51.2		
59379	2797														51.5		
59380	2799														44.1		
59381	2802														54.4		
59382	2805														52.4		
59383	2808														52.4		
59384	2810														43.0		
59385	2819														47.4		
59386	2827	C0024													48.7		

1 2 3 4 5 6 | 7 8 9 10 11 12 | 13 14 15 16 17 | 18 | 19 20 | 21 22 23 24 25 26 27 28 | 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 | 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 | 61 62 63 64 | 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80 81 82 83 84

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771050

053

TENEMENT CODE

RECORD CODE 3 0 0 | TYPE

TEST DATE 27/1/81 | LAB BR

THIESS BROS. PTY. LIMITED — MINING DIVISION

PROJECT NAME	TENEMENT No.	AREA
LAUNCESTON	EL 20/80	

LAB TEST REQUEST No.
LAB TESTER/CHECKER
AUTHORISING INITIALS
SHEET 2014

COAL ANALYSIS TEST SHEET No. 3

TP 818

LABORATORY SAMPLE NUMBER	FIELD SAMPLE NUMBER	BOREHOLE NUMBER	TYPE	SIZE CODE −	SIZE CODE +	FRACTION	ASH FUSION TEMP °C (OXIDISING) Initial Deformation	Spherical	Hemisphere	Flow	ASH FUSION TEMP °C (REDUCING) Initial Deformation	Spherical	Hemisphere	Flow	MOISTURE HOLD. CAP % WT	TOTAL MOISTURE % WT	HGI		CONTIN
A59387	C 2831	C0021														4.62			
59388	2835															5.11			
59389	2838															5.16			
59390	2842																		
59391	2849															4.81			
59392	2853															5.14			
59393	2857															5.06			
59394	2860															5.32			
59395	2862															4.76			
59396	2872															4.40			
59397	2876															4.57			
59398	2880															4.15			
59399	2885	C0004														5.55			
59400	2637	C0022														4.53			
59401	2641															4.76			
59402	2643															4.94			
59403	2647															4.55			
59404	2650															3.95			
59405	2659															4.83			
59406	2662															4.76			

1 2 3 4 5 6 | 7 8 9 10 11 12 | 13 14 15 16 17 18 | 19 20 | 21 22 23 24 25 26 27 28 | 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 | 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 | 61 62 63 64 65 66 67 | 68 69 70 71 72 73 74 75 76 77 78 79 80 81 82 83 84

771051

054

TENEMENT CODE

RECORD CODE 3 0 0 | TYPE

TEST DATE 27/01/81 | LAB R R

THIESS BROS. PTY. LIMITED — MINING DIVISION

PROJECT NAME	TENEMENT No.	AREA
LAUNCESTON	EL20/80	

LAB TEST REQUEST No.
LAB TESTER/CHECKER
AUTHORISING INITIALS
SHEET 3 of 4

COAL ANALYSIS TEST SHEET No. 3

TP 818

LABORATORY SAMPLE NUMBER	FIELD SAMPLE NUMBER	BOREHOLE NUMBER	TYPE	SIZE CODE −/+	FRACTION	ASH FUSION TEMP °C (OXIDISING) Initial Deformation	Spherical	Hemisphere	Flow	ASH FUSION TEMP °C (REDUCING) Initial Deformation	Spherical	Hemisphere	Flow	MOISTURE HOLD. CAP % WT	TOTAL MOISTURE % WT	HGI	
59A07	2668	C0022													47.3		
59A08	2670														46.8		
59A09	2674														48.9		
59A10	2675														38.6		
59A11	2680														39.9		
59A12	2686	C0052													39.7		
59A13	2691														50.2		
59A14	2693														46.8		
59A15	2695														48.4		
59A16	2697														47.9		
59A17	2700														38.8		
59A18	2701														—		
59A19	2704														36.3		
59A20	2705	C0033													49.2		
59A21	2709														44.7		
59A22	2713														47.1		
59A23	2714														48.8		
59A24	2716														52.5		
59A25	2721														45.0		
59A26	2728														49.5		

CONTIN

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771052

050

TENEMENT CODE

RECORD CODE: 3 0 1 0 | TYPE

TEST DATE: 27 MAY 81 | LAB: BC

THIESS BROS. PTY. LIMITED — MINING DIVISION

PROJECT NAME	TENEMENT No.	AREA
LAUNCESTON	EL 20/80	

LAB TEST REQUEST No.
LAB TESTER/CHECKER
AUTHORISING INITIALS
SHEET 4 of 4

COAL ANALYSIS TEST SHEET No. 3

TP 818

LABORATORY SAMPLE NUMBER	FIELD SAMPLE NUMBER	BOREHOLE NUMBER	TYPE	SIZE CODE - / +	FRACTION	ASH FUSION TEMP °C (OXIDISING) Initial Deformation	Spherical	Hemisphere	Flow	ASH FUSION TEMP °C (REDUCING) Initial Deformation	Spherical	Hemisphere	Flow	MOISTURE HOLD. CAP % WT	TOTAL MOISTURE % WT	HGI	CONTIN
A59427	2730	C0033													TT		
59428	2732														39.2		
59429	2736														50.6		
59430	2742														44.9		
59431	2747	C0019													41.7		
59432	2751														48.9		
59433	2883	C0004													50.8		
59434	2892														45.9		

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050

THIESS BROS. PTY. LIMITED — MINING DIVISION

TENEMENT CODE	RECORD CODE	TYPE
	1 0 0	

TEST DATE	LAB
0 8 0 3 8 2	B R

RESULT BASIS
A D

PROJECT NAME	TENEMENT No.	AREA
TASMANIA	EL 20/80	ROSEVALE

P. Ellis

LAB TEST REQUEST No. 1811
LAB TESTER/CHECKER
AUTHORISING INITIALS
SHEET 01 10

COAL ANALYSIS TEST SHEET No. 1

TP 816

LABORATORY SAMPLE NUMBER	FIELD SAMPLE NUMBER	BOREHOLE NUMBER	SEAM NAME	TYPE	BASE DEPTH	THICKNESS	SIZE CODE −/+	FRACTION	RAW WT.	RD	SIZE/FLOAT YIELD %	PROXIMATE ANALYSIS % BY WEIGHT: INHERENT MOISTURE	VOLATILE MATTER	ASH	FIXED CARBON	CSN	SPECIFIC ENERGY	TOTAL SULPHUR % WT	COMPOSITE SAMPLES	CONTIN
60245	G 2635	C0022			8.86	0.36		RAW		2.21		7.9	16.8	71.7	3.6		284	0.11		
46	36				9.20	0.34				1.90		9.6	23.6	56.0	10.8		6.84	0.23		
47	38				9.45	0.36				1.78		7.4	30.2	42.7	19.7		11.90	0.28		
48	39				10.77	0.82				1.62		20.1	26.3	37.2	16.4		10.50	0.23		
49	40				11.37	0.60				1.66		10.6	32.6	36.4	20.4		13.60	0.20		
50	42				12.20	0.51				1.64		20.1	25.5	41.0	13.4		8.84	0.21		
51	44				13.32	0.74				1.43		25.0	30.4	23.0	21.6		13.84	0.19		
57	45				14.12	0.80				1.52		24.3	28.0	30.1	17.6		11.90	0.18		
53	46				15.01	0.89				1.68		9.6	35.3	32.3	22.8		15.38	0.26		
54	48				16.17	0.97				1.57		23.7	25.5	37.3	13.5		9.52	0.19		
55	49				16.76	0.59				1.64		18.9	26.5	39.2	15.4		10.42	0.22		
56	51				17.88	0.63				1.76		17.3	21.5	48.1	13.1		7.64	0.18		
57	52				18.31	0.43				2.50		3.2	11.2	84.3	1.3		0.10	0.05		
58	53				19.00	0.80				2.34				82.0						
59	54				19.59	0.59				2.42		4.4	12.9	81.0	1.7		1.00	0.06		
60	55				20.27	0.68				1.63		21.4	24.0	41.0	13.6		8.96	0.20		
61	56				21.00	0.73				1.92		14.7	19.0	59.3	7.0		4.82	0.12		
62	57				21.74	0.74				1.94		13.0	21.4	59.7	5.9		5.32	0.15		
63	58				22.81	1.07				1.54		24.1	25.7	36.2	14.0		9.44	0.27		
64	60				23.72	0.51				1.47		21.9	31.9	23.8	22.4		15.00	0.28		

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037

THIESS BROS. PTY. LIMITED — MINING DIVISION

TENEMENT CODE	
RECORD CODE	TYPE
1 0 0	
TEST DATE	LAB
01 03 82	BR
RESULT BASIS	AD

PROJECT NAME	TENEMENT No.	AREA
TASMANIA	EL 20/80	ROSEVALE

LAB TEST REQUEST No. 1812
LAB TESTER/CHECKER RC
AUTHORISING INITIALS
SHEET 2 of 16

COAL ANALYSIS TEST SHEET No. 1

TP 816

LABORATORY SAMPLE NUMBER	FIELD SAMPLE NUMBER	BOREHOLE NUMBER	SEAM NAME	TYPE	BASE DEPTH	THICKNESS	SIZE CODE -1+	FRACTION	RAW WT.	RD	SIZE/FLOAT YIELD %	PROXIMATE ANALYSIS % BY WEIGHT: INHERENT MOISTURE	VOLATILE MATTER	ASH	FIXED CARBON	CSN	SPECIFIC ENERGY	TOTAL SULPHUR % WT	COMPOSITE SAMPLES	CONTIN
A60265	C2661	C0022			24.07	0.85		RAW		1.49		2.3.3	3.0.1	27.3	19.3		12.14	0.21		
66	63				24.98	0.62				1.60		25.0	21.2	43.2	10.6		7.56	0.15		
67	64				26.44	1.46				2.36				8.2.2						
68	65				27.20	0.76				3.14				7.4.1						
69	66				48.67	1.67				1.91		15.7	15.7	65.8	2.8		2.30	0.13		
70	67				49.67	1.00				1.60		21.4	25.7	39.9	13.0		9.26	0.20		
71	69				50.70	0.59				1.44		27.5	30.1	25.6	16.8		12.62	0.19		
72	71				52.01	0.93				1.49		27.5	27.2	31.7	13.6		10.94	0.16		
73	72				52.80	0.79				1.96		13.9	19.4	61.2	5.5		4.20	0.09		
74	73				53.63	0.83				1.68		11.6	31.5	36.8	20.1		12.64	0.20		
75	76				54.76	1.13				1.61		20.5	25.8	39.5	14.2		9.74	0.14		
76	77				55.04	0.28				3.22				74.4						
77	78				60.15	1.95				2.15				72.2						
78	79				60.55	0.40				2.23		7.4	15.9	74.4	2.3		1.86	0.06		
79	81				61.04	0.30				1.76		13.2	26.5	47.2	13.1		9.48	0.16		
80	82				62.19	0.76				1.77		17.2	22.1	49.5	11.2		7.34	0.13		
81	83				63.07	0.88				1.79		19.9	17.9	54.0	8.2		5.06	0.10		
82	84				63.55	0.48				1.96		14.1	19.5	59.2	7.2		4.46	0.10		
83	85	C0P32			36.27	9.17				2.26		10.1	11.1	77.8	1.0		0.98	0.04		
84	87				37.27	0.78				1.77		16.6	22.2	49.0	12.2		7.44	0.22		

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058

TENEMENT CODE	
RECORD CODE	TYPE
1 0 0	
TEST DATE	LAB
98 03 32	BR
RESULT BASIS	AD

THIESS BROS. PTY. LIMITED — MINING DIVISION

PROJECT NAME	TENEMENT No.	AREA
TASMANIA	EL 20/80	ROSEVALE

LAB TEST REQUEST No.	4813
LAB TESTER/CHECKER	AC
AUTHORISING INITIALS	
SHEET	3 of 10

COAL ANALYSIS TEST SHEET No. 1

TP 816

LABORATORY SAMPLE NUMBER	FIELD SAMPLE NUMBER	BOREHOLE NUMBER	SEAM NAME	TYPE	BASE DEPTH	THICKNESS	SIZE CODE − +	FRACTION	RAW WT.	RD	SIZE/FLOAT YIELD %	PROXIMATE ANALYSIS % BY WEIGHT: INHERENT MOISTURE	VOLATILE MATTER	ASH	FIXED CARBON	CSN	SPECIFIC ENERGY	TOTAL SULPHUR % WT	COMPOSITE SAMPLES	CONTIN
A60285	C 2688	C9032			38.41	0.93		RAW		1.64		26.4	19.0	47.5	7.1		5.26	0.15	–	
86	89				38.71	0.30				2.09		11.5	16.4	68.6	3.5		2.88	0.08	–	
87	90				40.46	1.33				1.65		28.6	19.4	47.7	4.3		5.58	0.10	–	
88	92				40.79	0.33				1.64		20.3	24.8	42.2	12.7		9.66	0.16	–	
89	94				41.84	0.62				1.72		9.1	34.7	36.3	19.9		14.08	0.17	–	
90	96				42.61	0.59				1.77		11.4	26.5	46.4	15.7		10.30	0.13	–	
91	98				43.87	0.85				1.70		14.5	26.9	39.8	18.8		11.72	0.11	–	
92	99				44.49	0.56				1.59		27.6	20.1	42.0	10.3		7.14	0.07	–	
93	2702				45.29 46.19	0.52 0.59				1.57		15.1	28.2	37.9	18.8		12.22	0.13	–	
94	03				47.82 48.31	0.52 0.05				1.79		18.7	18.0	56.2	7.1		4.64	0.07	–	
95	05				49.53	1.22				1.83		20.4	14.3	61.3	4.0		2.76	0.05	–	
96	06				30.21	0.68				2.18		11.4	12.8	74.1	1.7		0.68	0.03	–	
97	07				8.72	0.55				1.56		25.3	24.1	37.1	13.5		9.62	0.25	–	
98	2710	C9033			9.36 10.32	0.26 0.42				1.44		18.2	32.4	25.9	23.5		15.16	0.17	–	
99	11				11.44	1.12				1.71		21.0	20.5	46.8	11.7		7.34	0.10	–	
60300	13				12.25	0.41				1.54		21.8	29.1	31.5	17.6		11.98	0.13	–	
01	15				12.94	0.40				1.57		18.5	30.7	30.8	20.0		13.46	0.15	–	
02	17				13.66	0.44				1.51		22.1	29.2	28.3	20.4		12.72	0.11	–	
03	18				14.63	0.97				2.08		7.4	19.6	63.3	9.7		6.02	0.09	–	
04	19				23.87	0.61				2.21				74.3					–	
																			–	
																			–	

771056

059

THIESS BROS. PTY. LIMITED — MINING DIVISION

TENEMENT CODE	RECORD CODE	TYPE	TEST DATE	LAB	RESULT BASIS
	1 0 0		0 8 0 3 8 2	BR	AD

PROJECT NAME	TENEMENT No.	AREA
TASMANIA	EL 20/80	ROSEVALE

LAB TEST REQUEST No. 1814
LAB TESTER/CHECKER AC
AUTHORISING INITIALS
SHEET 4 of 10

COAL ANALYSIS TEST SHEET No. 1

TP 816

LABORATORY SAMPLE NUMBER	FIELD SAMPLE NUMBER	BOREHOLE NUMBER	SEAM NAME	TYPE	BASE DEPTH	THICKNESS	SIZE CODE − | +	FRACTION	RAW WT.	RD	SIZE/FLOAT YIELD %	PROXIMATE ANALYSIS % BY WEIGHT: INHERENT MOISTURE	VOLATILE MATTER	ASH	FIXED CARBON	CSN	SPECIFIC ENERGY	TOTAL SULPHUR % WT	COMPOSITE SAMPLES	CONTIN
160305	C 27.20	C0033			24.55	0.68		RAW		1.77		1.29	27.3	40.1	19.7		11,86	0.15		
306	22				25.74	0.32				1.89		.89	23.8	51.8	15.5		8,80	0.10		
307	23				26.34	0.60				2.07		8.4	1.9.8	62.0	9.8		6,1.2	0.07		
308	24				27.09	0.75				2.51		4.6	1.2.4	81.3	1.7		0.46	0.03		
309	25				28.86	0.77				2.27		.75	1.4.7	73.1	4.7		2.78	0.04		
310	26				29.49	0.63				1.79		11.7	27.5	43.0	17.8		1,1,38	.910		
11	27				29.89	0.22				1.52		10.7	35.2	25.4	28.7		1.740	.916		
12	29				32.76	0.64				2.02		10.9	26.7	45.4	17.0		10.46	0.09		
13	31				33.55	0.45				1.81		10.7	26.4	42.9	20.0		1,1.26	0.09		
14	33				34.60	0.64				1.81		10.9	25.3	48.4	15.4		9.98	0.10		
15	34				35.81	1.21				2.12				66.7						
16	35				35.46	0.62				1.55		1.5.3	34.0	26.5	24.2		16.24	0.18		
17	37				37.63	0.89				1.66		13.7	29.8	37.2	19.3		12.88	0.16		
18	38				38.77	1.14				1.99		8.5	23.0	56.9	11.6		7.38	0.11		
19	39				40.84	2.07				2.29		5.0	1.8.8	72.0	4.2		3.06	0.07		
20	40				45.90	0.90				2.27				76.0						
21	41				47.01	1.1.1								MISSING						
22	43				47.95	0.94				1.58		2.5.3	21.7	38.0	15.0		8.38	0.09		
23	44				48.86	0.91				1.99				66.0						
24	45				49.70	0.84						NO	TEST	S.	REQUIRED					

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771057

090

TENEMENT CODE	
RECORD CODE	TYPE
1 0 0	
TEST DATE	LAB
0 8 0 3 8 2	B R
RESULT BASIS	A D

THIESS BROS. PTY. LIMITED — MINING DIVISION

PROJECT NAME	TENEMENT No.	AREA
TASMANIA	EL 20/80	ROSEVALE

LAB TEST REQUEST No. 1815
LAB TESTER/CHECKER
AUTHORISING INITIALS FC
SHEET 5 of 10

COAL ANALYSIS TEST SHEET No. 1

TP 816

LABORATORY SAMPLE NUMBER	FIELD SAMPLE NUMBER	BOREHOLE NUMBER	SEAM NAME	TYPE	BASE DEPTH	THICKNESS	SIZE CODE	FRACTION	RAW WT.	RD	SIZE/FLOAT YIELD %	PROXIMATE ANALYSIS % BY WEIGHT: INHERENT MOISTURE	VOLATILE MATTER	ASH	FIXED CARBON	CSN	SPECIFIC ENERGY	TOTAL SULPHUR % WT	COMPOSITE SAMPLES	CONTIN
A60325	G 2746	C0019			398	036		RAW		1.85		1.9	16.2	59.3	5.3		402	0.12		
26	48				487	072				1.48		29.2	23.2	33.7	13.9		8.16	0.25		
27	49				516	029				2.25		5.8	16.0	73.4	4.8		2.92	0.13		
28	50				544	028				1.61		20.2	27.5	37.0	15.3		10.36	0.25		
29	52				615	053				1.49		1.48	37.9	19.1	28.2		17.76	0.36		
30	54				745	053				1.45		25.7	30.5	16.9	26.9		15.50	0.29		
31	55				781	036				1.59		1.30	34.1	24.8	2.81		16.30	0.31		
32	56				860	079				1.84		1.86	17.7	5.64	73		4.10	0.15		
33	58				10.15	1.25				1.76		9.1	30.3	42.2	18.4		11.70	0.28		
34	59				1152	037				2.34				92.6						
35	61				1592	086				1.56		27.8	25.3	38.3	86		7.68	020		
36	62				1655	063				1.65		26.1	19.9	45.4	8.6		5.88	0.14		
37	63				1710	055				2.01		1.49	15.1	65.8	4.2		2.50	009		
38	64				1773	051				1.95		17.4	14.7	65.6	2.3		1.90	0.16		
39	65				18.28	0.33				1.82		9.2	27.9	45.7	17.2		10.36	0.28		
40	67				2017	041				2.47		4.5	16.0	77.9	1.6		1.94	0.11		
41	68				2070	053				1.74				65.0						
42	69				21.24 / 22.48	1.24				1.66		15.9	27.5	39.1	17.5		11.10	0.26		
43	71				2354	096				2.06				71.4						
44	72				2511	100				2.11				76.7						

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771058

061

TENEMENT CODE	
RECORD CODE	TYPE
1 0 0	
TEST DATE	LAB
080382	8R
RESULT BASIS	AD

THIESS BROS. PTY. LIMITED — MINING DIVISION

PROJECT NAME	TENEMENT No.	AREA
TASMANIA	EL20/80	ROSEVALE

LAB TEST REQUEST No	2816
LAB TESTER/CHECKER	
AUTHORISING INITIALS	
SHEET	3 of 10

COAL ANALYSIS TEST SHEET No. 1

TP 816

LABORATORY SAMPLE NUMBER	FIELD SAMPLE NUMBER	BOREHOLE NUMBER	SEAM NAME	TYPE	BASE DEPTH	THICKNESS	SIZE CODE −1+	FRACTION	RAW WT.	RD	SIZE/FLOAT YIELD %	PROXIMATE ANALYSIS % BY WEIGHT: INHERENT MOISTURE	VOLATILE MATTER	ASH	FIXED CARBON	CSN	SPECIFIC ENERGY	TOTAL SULPHUR % WT	COMPOSITE SAMPLES	CONTIN
A60355	C 2773	C0019			25.43 / 26.45	0.32 / 0.71		RAW		1.62		21.7	24.1	40.2	1.40		8.76	0.18	–	
56	76				27.21	0.43				1.56		13.4	36.8	23.5	26.3		16.50	0.27	–	
57	77				28.42	1.21				1.59		12.8	33.7	27.4	26.1		15.26	0.25	–	
58	79				29.12	0.47				1.71		11.6	26.8	45.3	16.3		9.70	0.20	–	
59	81				30.46	1.13				1.67		13.8	27.9	37.8	20.5		11.86	0.22	–	
60	82				32.24	1.78				2.40				82.9				0.05	–	
61	83				33.18	0.94				1.77		10.5	27.5	43.2	18.8		11.14	0.26	–	
62	84	C0004			12.01	1.63				2.32		7.0	12.7	79.1	1.2		0.36	0.05	–	
63	85				14.63	1.14				1.60		12.2	34.1	27.9	25.8		15.42	0.30	–	
64	87				15.44	0.51				1.47		20.6	32.7	20.0	26.7		15.88	0.26	–	
65	88				16.01 / 16.50	0.57 / 0.22				1.51		27.6	24.8	30.9	16.7		10.44	0.22	–	
66	90				17.26	0.76				1.72		10.6	27.9	41.8	19.7		11.26	0.25	–	
67	91				17.95	0.69				1.93		12.7	19.7	60.8	6.8		4.82	0.16	–	
68	92				18.69 / 19.16	0.74 / 0.15				1.56		21.7	27.7	31.9	18.7		11.32	0.21	–	
69	94				19.67	0.51				1.55		26.5	23.1	36.1	14.3		8.98	0.17	–	
70	95				20.67	1.00				1.72		13.5	27.0	43.2	16.3		10.28	0.17	–	
71	96				21.48 / 21.93	0.81 / 0.18				1.60		11.9	34.5	28.0	25.6		15.34	0.28	–	
72	98				22.22	0.29				1.68		10.6	32.1	36.2	21.1		12.96	0.26	–	
73	[illegible]				23.11	0.66				1.58		20.5	27.9	31.2	20.4		12.36	0.22	–	
74	[illegible]				24.43 / 24.43	0.70 / 0.32				2.16		9.2	15.5	71.6	3.7		2.16	0.07	–	
																			–	
																			–	

771059

290

TENEMENT CODE	
RECORD CODE	TYPE
1 0 0	
TEST DATE	LAB
0 8 0 3 8 2	B R
RESULT BASIS	A D

THIESS BROS. PTY. LIMITED — MINING DIVISION

PROJECT NAME	TENEMENT No.	AREA
TASMANIA	EL 20/80	ROSEVALE

LAB TEST REQUEST No. 4817
LAB TESTER/CHECKER AC
AUTHORISING INITIALS
SHEET 1 of 10

COAL ANALYSIS TEST SHEET No. 1

TP 816

LABORATORY SAMPLE NUMBER	FIELD SAMPLE NUMBER	BOREHOLE NUMBER	SEAM NAME	TYPE	BASE DEPTH	THICKNESS	SIZE CODE - | +	FRACTION	RAW WT.	RD	SIZE/FLOAT YIELD %	PROXIMATE ANALYSIS % BY WEIGHT: INHERENT MOISTURE	VOLATILE MATTER	ASH	FIXED CARBON	CSN	SPECIFIC ENERGY	TOTAL SULPHUR % WT	COMPOSITE SAMPLES (CONTIN)
A60375	C 2803	C0004			250.1	0.95		RAW		1.73		1.03	28.9	41.0	19.8		11.70	0.28	
76	04				261.20	1.39				1.71		1.70	25.1	43.7	14.2		8.98	0.22	
77	06				27.56	1.02				1.49		22.7	29.7	26.6	21.0		13.46	0.20	
78	07				28.58 / 28.157	0.89 / 0.120				1.64		1.68	27.2	37.2	18.8		11.46	0.22	
79	09				29.06	0.49				1.49		29.1	23.9	30.9	16.1		9.80	0.23	
30	11				30.69	1.03				1.79		1.75	20.3	53.4	8.9		5.88	0.20	
31	12				31.83	1.17				1.84		1.61	20.5	54.0	9.4		5.88	0.20	
82	13				33.10	1.17				1.61		24.9	21.2	42.9	11.0		7.20	0.20	
83	14				33.74	0.64				1.52		1.98	30.5	28.6	21.1		13.16	0.30	
84	15				38.37	1.20						NO ANALYSIS							
85	16				39.57	1.20				1.96				62.0					
86	17				39.96	0.39				1.85		9.3	24.6	51.0	15.1		9.00	0.23	
87	18				40.33 / 41.33	0.36 / 0.75				1.72		1.80	22.0	46.5	13.5		7.70	0.20	
88	20				43.14	1.82				2.13		4.4	1.5.8	77.8	2.0		2.18	0.12	
89	21	C0021			86.1	0.37						NO ANALYSIS							
90	22				9.76	1.15				1.78		1.83	21.3	50.6	9.8		5.70	0.13	
91	23				7.14	0.55						NO ANALYSIS							
92	24				7.92	0.54						NO ANALYSIS							
93	25				9.61	1.69				2.25				78.6					
94	26				18.16	8.55				1.53		2.51	24.1	31.5	17.3		10.52	0.20	

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090

TENEMENT CODE	
RECORD CODE	TYPE
1 0 0	
TEST DATE	LAB
01 01 03 82	BR
RESULT BASIS	AD

THIESS BROS. PTY. LIMITED — MINING DIVISION

PROJECT NAME	TENEMENT No.	AREA
TASMANIA	EL 20/80	ROSEVALE

LAB TEST REQUEST No. 7821
LAB TESTER/CHECKER
AUTHORISING INITIALS
SHEET 8 of 10

COAL ANALYSIS TEST SHEET No. 1

TP 816

LABORATORY SAMPLE NUMBER	FIELD SAMPLE NUMBER	BOREHOLE NUMBER	SEAM NAME	TYPE	BASE DEPTH	THICKNESS	SIZE CODE - +	FRACTION	RAW WT.	RD	SIZE/FLOAT YIELD %	PROXIMATE ANALYSIS % BY WEIGHT: INHERENT MOISTURE	VOLATILE MATTER	ASH	FIXED CARBON	CSN	SPECIFIC ENERGY	TOTAL SULPHUR % WT	COMPOSITE SAMPLES	CONTIN
A60395	C 2829	C0021			1.173	0.76		RAW		1.75		25.3	13.4	56.1	5.2		3.32	0.12		
96	30				13.58	1.88				1.52		16.6	35.5	22.4	25.5		15.74	0.28		
97	32				14.40	0.82				1.69		27.9	16.3	50.2	5.6		3.68	0.15		
98	33				15.18	0.78				1.66		15.4	28.7	38.8	17.1		11.22	0.23		
99	34				16.08	0.83				1.61		18.7	27.1	36.7	17.5		10.76	0.18		
60400	36				16.96	0.45				1.71		14.2	27.4	42.3	16.1		10.06	0.17		
01	37				18.30	1.34				1.45		18.9	36.2	16.6	28.3		18.72	0.21		
02	39				19.11	0.49				1.61		28.3	18.6	44.6	8.5		6.20	0.10		
03	40				20.39	0.89				1.66		26.6	17.7	46.4	9.3		5.38	0.11		
04	41				21.34	0.95				1.65		14.7	28.8	35.4	21.1		12.34	0.24		
05	43				22.06	0.45				1.65		27.5	17.0	47.7	7.8		5.14	0.14		
06	44				24.13	1.07				2.35				79.1						
07	45				24.75	0.62				1.80		23.9	18.5	53.4	4.2		3.60	0.17		
08	46				36.07	0.56						NO ANALYSIS								
09	47				40.33	1.76						NO ANALYSIS								
10	48				46.07	0.78				1.58		14.4	32.3	28.0	25.3		15.70	0.21		
11	50				46.87	0.80				1.71		23.8	14.6	56.7	4.9		3.24	0.08		
12	51				47.64	0.54				1.79		12.9	25.9	47.1	15.0		9.88	0.18		
13	52				48.17	0.53				1.59		28.8	18.4	42.4	10.4		6.78	0.14		
14	54				49.39	0.86				1.55		22.3	27.3	32.7	17.7		11.64	0.28		

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064

TENEMENT CODE	
RECORD CODE	TYPE
1 0 0	
TEST DATE	LAB
080382	BR
RESULT BASIS	AD

THIESS BROS. PTY. LIMITED — MINING DIVISION

PROJECT NAME	TENEMENT No.	AREA
TASMANIA	EL20/80	ROSEVALE

LAB TEST REQUEST No. 4819
LAB TESTER/CHECKER C
AUTHORISING INITIALS
SHEET 1 of 10

COAL ANALYSIS TEST SHEET No. 1

TP 816

LABORATORY SAMPLE NUMBER	FIELD SAMPLE NUMBER	BOREHOLE NUMBER	SEAM NAME	TYPE	BASE DEPTH	THICKNESS	SIZE CODE - | +	FRACTION	RAW WT.	RD	SIZE/FLOAT YIELD %	PROXIMATE ANALYSIS % BY WEIGHT: INHERENT MOISTURE	VOLATILE MATTER	ASH	FIXED CARBON	CSN	SPECIFIC ENERGY	TOTAL SULPHUR % WT	COMPOSITE SAMPLES	CONTIN
A60415	C 2855	C00021			49.78	0.39		RAW		1.82		16.2	20.5	55.2	8.1		5180	0.19		
16	56				50.29	0.51				1.43		28.5	29.3	22.5	19.7		13098	0.31		
17	58				51.58	1.01				1.50		24.8	21.6	35.8	12.8		7720	0.19		
18	59				51.81 51.88	0.67				1.60		24.6	22.6	39.4	13.4		8668	0.19		
19	61				53.69	0.81				1.63		22.8	23.2	42.0	12.0		8446	0.18		
20	63				54.55	0.58				1.74		10.1	28.1	45.6	16.2		10772	0.21		
21	64				56.24	1.69				1.68		23.4	19.2	47.7	9.7		5992	0.16		
22	65				58.06	1.39				1.64		22.9	22.3	41.2	13.6		8224	0.18		
23	66				59.57	1.51				1.83		17.8	18.5	56.8	6.9		4456	0.15		
24	67	C0033			27.79	0.75				2.02				59.1						
25	68				29.20	0.44				2.37				80.5						
26	69				31.15	0.95				2.25		5.0	16.0	73.2	5.8		3178	0.07		
27	70				31.62	0.47				1.62		19.4	25.8	37.5	17.3		10444	0.09		
28	72				32.09	0.28							MISSING							
29	73				32.92	0.83				1.83		8.0	28.4	46.4	17.2		11442	0.12		
30	74				33.20	0.28				2.01				60.3						
31	75				34.64	0.42				1.68		10.5	31.8	33.2	24.5		14662	0.11		
32	77				35.82	1.18				1.76		8.3	28.2	43.2	20.3		12714	0.11		
33	78				36.46	0.64				1.82				43.6						
34	79				36.79	0.33				1.85		7.9	26.4	49.6	16.1		10480	0.11		

Page No. 2822

771062

065

THIESS BROS. PTY. LIMITED — MINING DIVISION

TENEMENT CODE	
RECORD CODE	TYPE
1 0 0	
TEST DATE	LAB
08 03 82	BR
RESULT BASIS	AD

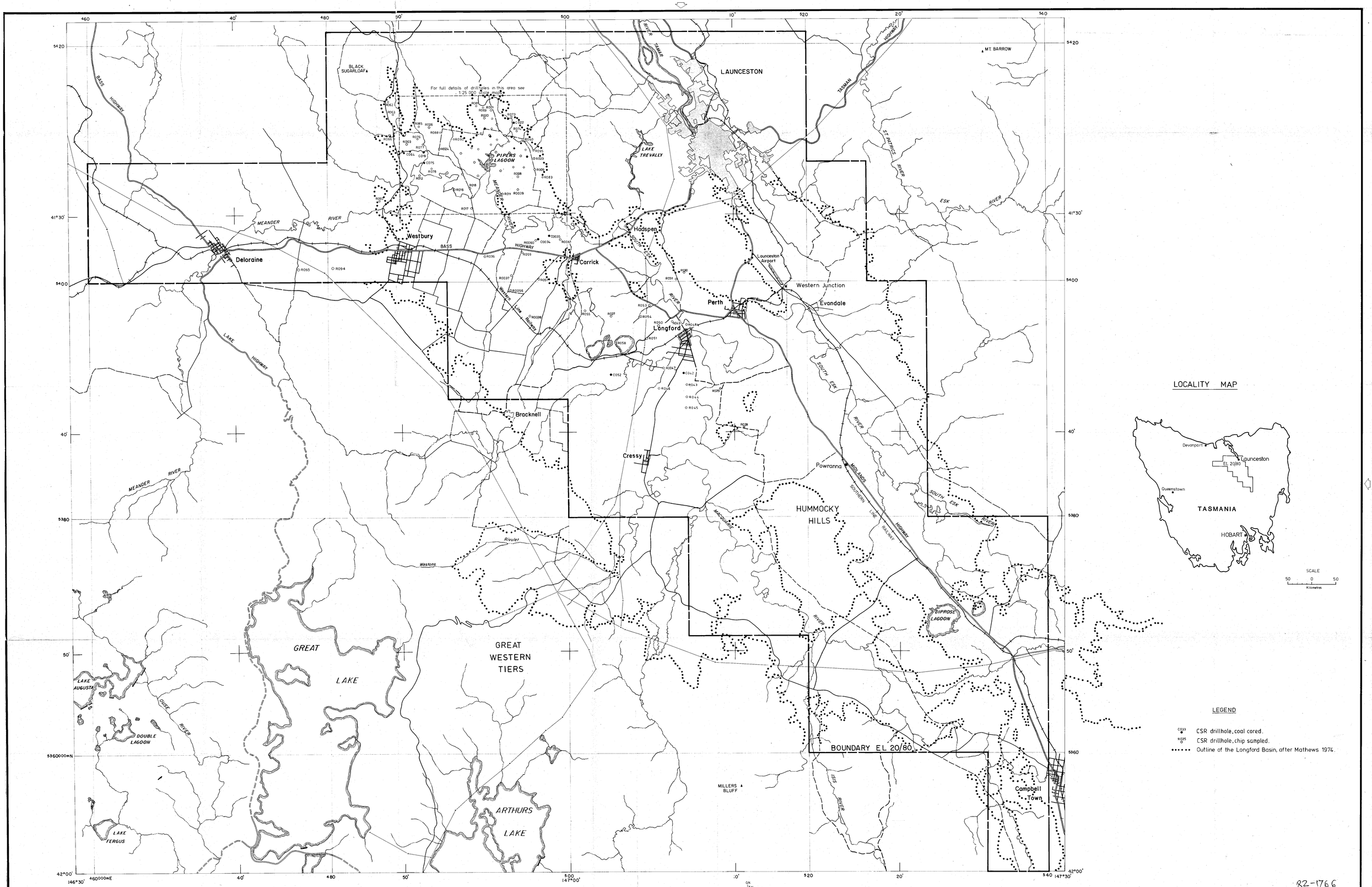
PROJECT NAME	TENEMENT No.	AREA
TASMANIA	EL20/80	ROSEVALE

LAB TEST REQUEST No.	4820
LAB TESTER/CHECKER	
AUTHORISING INITIALS	[illegible]
SHEET	10 of 10

COAL ANALYSIS TEST SHEET No. 1

TP 816

LABORATORY SAMPLE NUMBER	FIELD SAMPLE NUMBER	BOREHOLE NUMBER	SEAM NAME	TYPE	BASE DEPTH	THICKNESS	SIZE CODE −|+	FRACTION	RAW WT.	RD	SIZE/FLOAT YIELD %	PROXIMATE ANALYSIS % BY WEIGHT: INHERENT MOISTURE	VOLATILE MATTER	ASH	FIXED CARBON	CSN	SPECIFIC ENERGY	TOTAL SULPHUR % WT	COMPOSITE SAMPLES	CONTIN
A60435	C02881	C0033			38.42	1.27		RAW		2.07		9.0	18.7	63.6	8.7		5.22	0.07	–	
36	82				39.67	1.25				1.58		18.1	30.4	31.1	20.4		13.78	0.15	–	
37	83	C0004			11.23	1.19						NO ANALYSIS							–	
38	84				11.96	0.73				2.47		5.0	11.8	82.6	0.6		0.26	0.02	–	
39	86				13.23	0.97				1.51		18.0	35.3	22.0	24.7		15.92	0.28	–	
40	87				14.05	0.80				1.53		21.8	29.2	28.8	20.2		12.94	0.25	–	
41	89				14.57 14.90	0.25 0.33				1.80		10.0	27.5	45.0	17.5		10.64	0.24	–	
42	90				15.51	0.61				2.14		5.5	21.0	66.6	6.9		4.38	0.16	–	
43	91				16.18	0.67				1.65		10.1	34.9	32.4	22.6		14.92	0.33	–	
44	93				17.73	1.28				1.66		19.8	24.4	38.2	17.6		10.40	0.20	–	



Compiled from Tasmania 1:100 000 Topographic Survey Series 8215 Tamar, 8315 St Patricks, 8314 South Esk, 8214 Meander Edition 3 1979.

82-1766

CSR Limited Coal Division	EXPLORATION AND EVALUATION GROUP	CSR
DRAWING / DATE	EL 20/80 LAUNCESTON LOCATION OF EXPLORATION AND OUTLINE OF LONGFORD BASIN	SCALE 1:100 000
DRAWN B.A.W. / JULY '81		FIGURE 2
CHECKED		DRAWING No. 70020-33
REVISED S.M.C. / June '82		

027 82-1766

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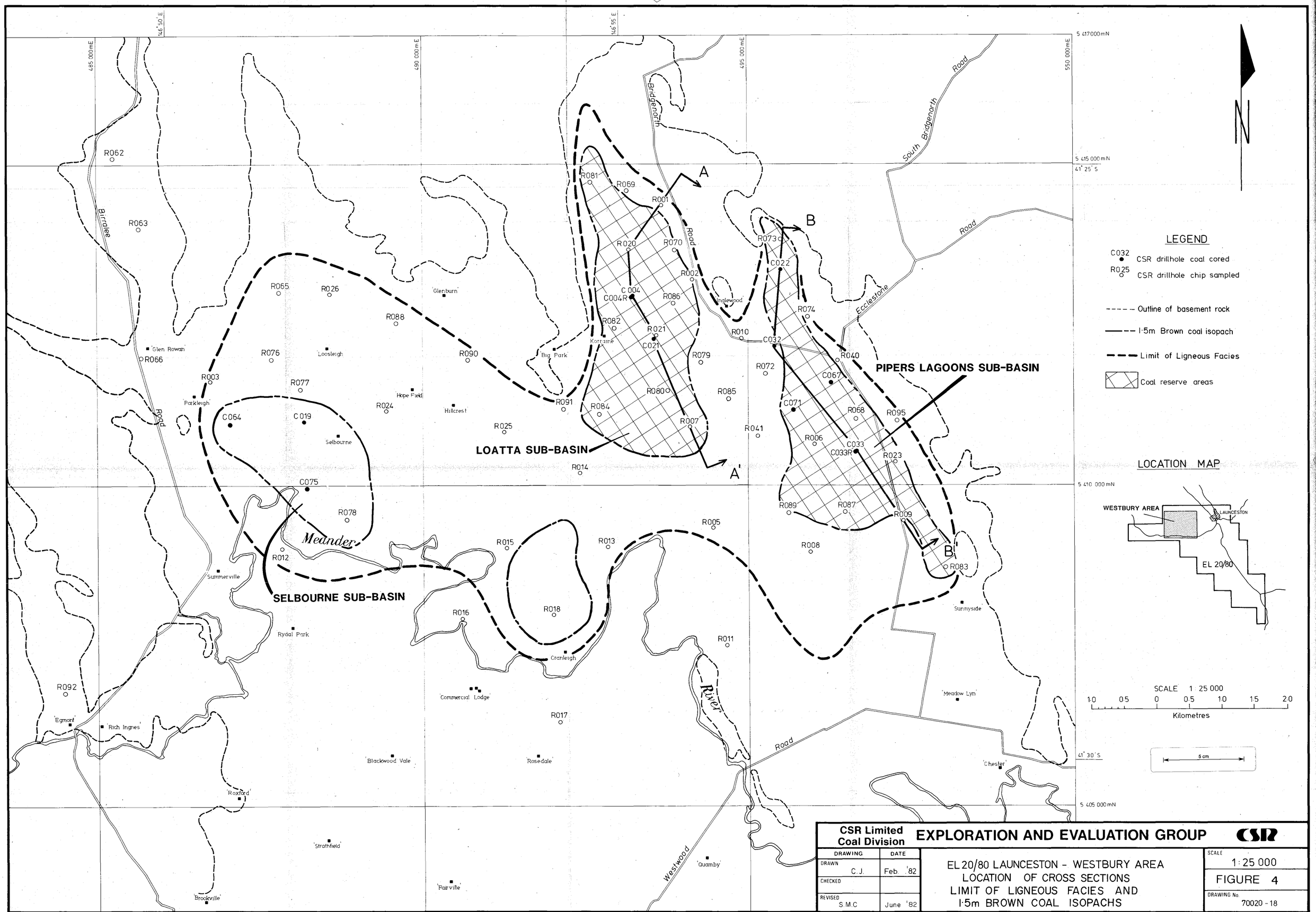

CSR Limited Coal Division	EXPLORATION AND EVALUATION GROUP	CSR
DRAWN C.J. Feb. '82	EL 20/80 LAUNCESTON - WESTBURY AREA LOCATION OF CROSS SECTIONS LIMIT OF LIGNEOUS FACIES AND 1·5m BROWN COAL ISOPACHS	SCALE 1:25 000
CHECKED		FIGURE 4
REVISED S.M.C June '82		DRAWING No. 70020 - 18

771064 82-1766

A

A'

R.L. IN METRES

180 170 160 150 140 130 120 110 100 90 80

R001 R020 C004 R021 C021 R007

LB1 LB2 LB3 LC1 LC2 LC3 LCO LAO LBO

LOATTA SUB-BASIN

B

B'

R.L. IN METRES

160 150 140 130 120 110 100 90 80 70 60 50

C022 C032 C033 R009

PBO PCO PDO

PIPERS LAGOONS SUB-BASIN

LEGEND

- Tertary Basalt
- Lignite
- Inferior Lignite
- Ligneous Clay
- Carbonaceous Clay
- Clay
- Sandy Clay
- Ligneous Sand
- Sand with Wood Fragments
- Sand
- Dolerite (Jurassic)

NOTE: Vertical Exaggeration ×10

5 cm

HORIZONTAL SCALE 1:5000

100 0 100 200 300 400

Metres

CSR Limited Coal Division	EXPLORATION AND EVALUATION GROUP	CSR
DRAWING: DRAWN C. J. Feb. '82; CHECKED; REVISED S.M.C June '82	EL 20/80 LAUNCESTON — CROSS SECTIONS A-A' LOATTA SUB-BASIN B-B' PIPERS LAGOONS SUB-BASIN	SCALE 1:500 V, 1:5000 H FIGURE 5 DRAWING No. 70020-19

771065

52·1766

030

LEGEND

- Highway, sealed road
- Unsealed road, vehicular track, lane
- Railway
- 'Farrville' Homestead
- Drain
- C033 CSR drillhole coal cored
- R009 CSR drillhole chip sampled
- Outline of basement rock
- r130 Basement contour, elevation A.S.L.
- Limit of coal reserves

SELBOURNE SUB-BASIN

LOATTA SUB-BASIN

PIPERS LAGOONS SUB-BASIN

STATE FOREST

WESTBURY

HAGLEY

MEANDER RIVER

BASS HIGHWAY

WESTBURY AREA

EL 20/80

LAUNCESTON

KEY SHEET DIAGRAM

(TASMANIAN 1:25000 TOPO. SERIES)

PARKHAM	BRIDGENORTH	LAUNCESTON
DELORAINE	WESTBURY	PROSPECT

GRID CONVERGENCE 0°2'

G.N. T.N. M.N.

GRID MAGNETIC ANGLE 1°30'

TRUE NORTH GRID NORTH AND MAGNETIC NORTH ARE SHOWN DIAGRAMMATICALLY FOR THE CENTRE OF THE MAP. MAGNETIC NORTH IS CORRECT FOR 1980 AND MOVES EASTERLY BY 0°1' ABOUT EVERY THREE YEARS

SCALE 1:25000

1.0 0.5 0 0.5 1.0 1.5 2.0 Kilometres

5 cm

CSR Limited Coal Division	EXPLORATION AND EVALUATION GROUP	CSR
DRAWING: DRAWN R.L. Jan. '82; CHECKED; REVISED S.M.C. June'82	EL 20/80 LAUNCESTON WESTBURY AREA BASEMENT CONTOURS	SCALE 1:25000; FIGURE 6; DRAWING No. 70020 – 30

771066

031

771067

OPEN FILE

APPENDIX 3

EL 20/80 LAUNCESTON
EXPLORATION PROGRESS REPORT FOR
3 MONTH PERIOD ENDED
22 MAY, 1982

ENGLISH LOGS OF BOREHOLES
DRILLED DURING OCTOBER-DECEMBER
1981

82-1769 (Vol 2 of 2)

771c/2

****
EL2080 LAUNCESTON. R0001
****

Easting:	493680.000
Northing:	5414360.000
Grid Type:	Australian Mapping Grid
Accuracy:	Approximate
Crl:	155.00
Datum:	Approximate Level - Not Surveyed
Sheet Reference:	
Sheet Index:	
Total Depth:	35.00
Drilling Commenced:	05/10/81
Drilling Completed:	06/10/81
Inclination:	
Azimuth:	
Standing Water Level:	0.0
Available Data:	Gamma Logs Density Logs Resistivity Logs Caliper Logs

Logging Organisation:	CSR Exploration and Evaluation Group
Logged By:	ELLIS
Drilling Contractor:	H J. Stacpoole
Geophysical Logging:	Murdoch Geophysics
County:	
Parish:	
Portion:	
Plug Depths:	
Hole Diameter:	120
Core Diameter:	
Cased Depths:	3.0
Core Barrel:	
Drill Bits:	Blades

ALL ROCKS ARE FRESH UNLESS OTHERWISE INDICATED

DELETED

771068

STRAT NAME	SEQ NO.	SEAM NAME	WORK SECT	SAMPLE NUMBER	DEPTH (m)	THICK (m)	ROCK TYPE	GEOLOGICAL DESCRIPTION OF STRATA
					0.50	0.50	SAND	Silty, medium to dark brown, weathered, medium dense, non-plastic.
					1.20	0.70	SAND	Silty, light to medium brown - red, weathered, medium dense, non-plastic.
					2.90	1.70	CLAY	Sandy, quartzose, light to medium grey, fresh, firm, low plasticity (clay), medium grained, uniform, well sorted, well rounded; Additional features include: rounded.
					3.80	0.90	SAND	Clayey, quartzose, light to medium grey, fresh, firm, low plasticity (clay), medium grained, uniform, well sorted, well rounded; Additional features include: rounded.
					4.40	0.60	SAND	Ligneous, woody textured, medium to dark brown - black, firm, friable; SOME FISSILE WOODY BANDS
					5.55	1.15	SAND and LIGNEOUS CLAY	Interbedded 60:40. SAND: ligneous, woody textured, medium to dark brown - black, medium dense, non-plastic; LIGNEOUS CLAY: medium to dark brown - grey, firm, low plasticity (organic); WOODY LIGNITE IS FIRM FRIABLE
					7.10	1.55	SAND	Clayey, medium to dark brown, medium dense, non-plastic.
					10.20	3.10	SAND	Ligneous, woody textured, dark grey - brown, medium dense, non-plastic, common woody fragments; Additional features include: quartzose; WITH WOOD FRAGMENT RICH BANDS
					12.10	1.90	CLAY	Light to medium grey - brown, very soft, high plasticity (clay); CLAY NOT RETURNED AS FRAGMENTS, PROB- * ABLY DISPERSIVE.

001
771069

STRAT NAME	SEQ NO.	SEAM NAME	WORK SECT	SAMPLE NUMBER	DEPTH (m)	THICK (m)	ROCK TYPE	GEOLOGICAL DESCRIPTION OF STRATA
					12.45	0.35	SAND	Ligneous, quartzose, medium dense, non-plastic, abundant woody fragments; Additional features include: woody textured.
					13.70	1.25	SAND	Quartzose, clayey, light grey, medium dense, non-plastic, medium grained, uniform.
					14.90	1.20	SAND	Quartzose, clayey, medium to dark brown, medium dense, non-plastic, medium grained, uniform, abundant woody fragments; Additional features include: ligneous, woody textured.
					18.90	4.00	SAND	Quartzose, light grey, medium dense, non-plastic.
					20.10	1.20	INFERIOR LIGNITE	Woody textured, peaty, medium to dark brown, firm, friable; Additional features include: sandy.
					21.00	0.90	SAND	Quartzose, light grey, medium dense, non-plastic, common woody fragments.
					22.50	1.50	CLAY	Light grey - brown, soft, high plasticity (clay), common woody fragments; Bands include: SAND, quartzose, clayey, light grey, medium dense, non-plastic, fine and medium grained, common woody fragments; SOME LIGNEOUS BANDS
					25.50	3.00	SAND	Quartzose, clayey, light grey, medium dense, non-plastic; Bands include: SAND, quartzose, clayey, light grey - brown, medium dense, non-plastic, abundant woody fragments; Additional features include: woody textured.
					26.50	1.00	CLAY	Sandy, light white - grey, soft, high plasticity (clay), abundant woody fragments.
					27.00	0.50	SAND	Quartzose, clayey, light grey, medium dense, non-plastic, fine and medium grained, common woody fragments.
					27.50	0.50	LIGNITE	Sandy, woody textured, dark brown - black, low strength, brittle; Bands include: LIGNITE, sandy, woody textured, dark brown - black, firm, friable.
					28.00	0.50	SAND	Quartzose, light grey, medium dense, non-plastic.

002
211020

STRAT NAME	SEQ NO.	SEAM NAME	WORK SECT	SAMPLE NUMBER	DEPTH (m)	THICK (m)	ROCK TYPE	GEOLOGICAL DESCRIPTION OF STRATA
					28.50	0.50	CLAY	Sandy, light grey, soft, high plasticity (clay), fine and medium grained.
					29.80	1.30	LIGNITE	Dark brown - black, firm, friable.
					30.50	0.70	LIGNITE and CLAY	Interbedded 50:50. LIGNITE: dark brown - black, firm, friable; CLAY: light grey, firm, high plasticity (clay).
					32.50	2.00	SAND	Quartzose, light grey, medium dense, non-plastic, fine and medium grained, common woody fragments; Bands include: CLAY, carbonaceous, medium to dark brown, soft, high plasticity (clay), common woody fragments; Bands include: CLAY, sandy, quartzose, light white, soft, low plasticity (clay), common woody fragments.
					33.00	0.50	CLAY	Sandy, light to medium green, soft, low plasticity (clay); WEATHERED DOLERITE
					35.00	2.00	SAND	Clayey, medium to dark green - blue, medium dense, non-plastic, medium grained; HARD BASEMENT INTERSECTED AT TOTAL DEPTH. *

END OF BORE AT 35.00 m

EL2080 LAUNCESTON. R0001

771071

****
EL2080 LAUNCESTON. R0002
****

Easting:	494160.000	Logging Organisation:	CSR Exploration and Evaluation Group
Northing:	5413200.000	Logged By:	ELLIS
Grid Type:	Australian Mapping Grid	Drilling Contractor:	H.J. Stacpoole
Accuracy:	Approximate	Geophysical Logging:	Murdoch Geophysics
Crl:	165.00		
Datum:	Approximate Level - Not Surveyed		
Sheet Reference:		County:	
Sheet Index:		Parish:	
Total Depth:	72.00	Portion:	
Drilling Commenced:	06/10/81		
Drilling Completed:	07/10/81		
Inclination:		Plug Depths:	
Azimuth:		Hole Diameter:	120
Standing Water Level:	1.2	Core Diameter:	
		Cased Depths:	3.0
		Core Barrel:	
Available Data:	Gamma Logs		
	Density Logs	Drill Bits:	Blades
	Resistivity Logs		Rollers
	Caliper Logs		

ALL ROCKS ARE FRESH UNLESS OTHERWISE INDICATED

004
271072

STRAT NAME	SEQ NO.	SEAM NAME	WORK SECT	SAMPLE NUMBER	DEPTH (m)	THICK (m)	ROCK TYPE	GEOLOGICAL DESCRIPTION OF STRATA
					0.80	0.80	SILT	Sandy, medium to dark brown, soft, low plasticity (silt).
					1.50	0.70	CLAY	Medium to dark brown - orange, soft, high plasticity (clay);
								WITH FINE GRAVELLY BASALT INCLUSIONS
					2.50	1.00	CLAY	Mottled buff - orange, firm, high plasticity (clay);
								WITH FINE GRAVELLY BASALT INCLUSIONS *
								CLAY BALLING AT 2.0 METRES
					2.80	0.30	CLAY	Mottled grey - buff, soft, high plasticity (clay);
								"PIPE-CLAY", READILY USED IN CERAMIC *
								WORK-BAKED IN SUN AROUND RODS AND ROLLER BIT *
					3.40	0.60	CLAY	Light grey, soft, high plasticity (clay).
					4.85	1.45	CLAY	Mottled grey - yellow, firm, high plasticity (clay); Additional features include: red;
								POSSIBLE WEATHERING SURFACE, CONTAINING *
								WEATHERED BASALT AT BASE
					5.10	0.25	CLAY	Sandy, mottled yellow - grey, weathered, firm, low plasticity (clay).
					5.80	0.70	CLAY	Mottled grey - yellow, firm, low plasticity (clay); Additional features include: pink.
					7.00	1.20	SAND	Clayey, silty, light to medium yellow, medium dense, non-plastic, fine grained, fining upwards; Additional features include: quartzose.
					7.50	0.50	CLAY	Sandy, quartzose, mottled grey - yellow, soft, low plasticity (clay); Bands include: CLAY, carbonaceous, sandy, medium to dark brown, soft, low plasticity (clay); Additional features include: quartzose.

STRAT NAME	SEQ NO.	SEAM NAME	WORK SECT	SAMPLE NUMBER	DEPTH (m)	THICK (m)	ROCK TYPE	GEOLOGICAL DESCRIPTION OF STRATA
					8.60	1.10	CLAY	Sandy, quartzose, mottled grey - yellow, soft, low plasticity (clay), fining upwards; Bands include: CLAY, carbonaceous, sandy, medium to dark brown, soft, low plasticity (clay); Additional features include: quartzose.
					9.60	1.00	SAND	Clayey, quartzose, light to medium yellow, medium dense, non-plastic, fine grained, fining upwards.
					10.00	0.40	CLAY	Sandy, quartzose, mottled grey - yellow, soft, low plasticity (clay).
					13.70	3.70	SAND	Quartzose, light to medium grey - brown, medium dense, non-plastic, fine grained, common woody fragments; Bands include: CLAY, carbonaceous, medium to dark brown, soft, low plasticity (organic); Bands include: CLAY, sandy, light to medium grey, soft, low plasticity (clay);
								WOOD FRAGMENT-RICH BANDS OCCUR WITH *
								CYCLICITY THROUGHOUT UNIT
					14.75	1.05	SAND	Ligneous, woody textured, medium to dark brown - grey, medium dense, non-plastic, very fine grained; Additional features include: peaty, fine grained.
					15.60	0.85	LIGNEOUS CLAY	Medium to dark brown, firm, low plasticity (organic);
								LOST CIRCULATION BETWEEN 15.0 AND 15.8 *
								METRES-MIXED SUPERGEL
					16.00	0.40	LIGNITE	Woody textured, dark black - brown, firm, friable, fibrous.
					16.65	0.65	INFERIOR LIGNITE and CLAY	Interbedded 80:20. INFERIOR LIGNITE: woody textured, peaty, dark brown - black, firm, friable, fibrous; CLAY: carbonaceous, light to medium grey - brown, soft, low plasticity (clay);
								MAY CONTAIN SAND-IE: SANDY INFERIOR *
								LIGNITE
					19.95	3.30	CLAY	Carbonaceous, sandy, light to medium grey - brown, soft, low plasticity (clay), common woody fragments.

006

771074

STRAT NAME	SEG NO.	SEAM NAME	WORK SECT	SAMPLE NUMBER	DEPTH (m)	THICK (m)	ROCK TYPE	GEOLOGICAL DESCRIPTION OF STRATA
					20.40	0.45	INFERIOR LIGNITE	Woody textured, peaty, dark brown - black, firm, friable.
					23.10	2.70	SAND	Quartzose, silty, light to medium grey - brown, medium dense, non-plastic, very fine grained, common woody fragments;
								CIRCULATION POOR BETWEEN 21.0 AND 23.0 *
								METRES, WOOD FRAGMENTS ONLY SAMPLE RETURN, RUNNING SANDS, HOLE CAVING *
					23.60	0.50	INFERIOR LIGNITE	Sandy, woody textured, medium to dark brown, firm, friable.
					24.90	1.30	SAND	Woody textured, light to medium grey - brown, medium dense, non-plastic.
					29.30	4.40	SAND	Quartzose, clayey, light to medium grey, medium dense, non-plastic;
								RUNNING SANDS, HOLE CAVING
					29.90	0.60	LIGNITE	Woody textured, dark black - brown, firm, friable.
					30.10	0.20	INFERIOR LIGNITE	Woody textured, dark brown - black, firm, friable.
					30.80	0.70	LIGNITE	Woody textured, dark black - brown, firm, friable.
					31.20	0.40	INFERIOR LIGNITE	Woody textured, dark brown - black, firm, friable.
					31.70	0.50	LIGNITE	Woody textured, dark black - brown, firm, friable.
					33.00	1.30	INFERIOR LIGNITE	Clayey, dark brown - black, firm, friable.
					34.55	1.55	CLAY	Carbonaceous, medium to dark brown - grey, soft, high plasticity (clay); Bands include: LIGNITE, woody textured, medium to dark brown - black, firm, friable.
					34.95	0.40	LIGNITE	Dark black - brown, firm, friable.
					36.00	1.05	CLAY and LIGNITE	Interbedded 70:30. CLAY: carbonaceous, medium to dark brown - grey, soft, high plasticity (clay); LIGNITE: woody textured, dark black - brown, low strength, brittle.

771075

STRAT NAME	SEG NO.	SEAM NAME	WORK SECT	SAMPLE NUMBER	DEPTH (m)	THICK (m)	ROCK TYPE	GEOLOGICAL DESCRIPTION OF STRATA
					40.50	4.50	CLAY	Carbonaceous, medium to dark brown - grey, soft, high plasticity (clay), common woody fragments; Bands include: LIGNITE, woody textured, dark black - brown, low strength, brittle.
					45.00	4.50	SAND	Quartzose, woody textured, light grey, medium dense, non-plastic, fine and medium grained, abundant woody fragments.
					52.00	7.00	SAND	Quartzose, clayey, light orange - yellow, medium dense, non-plastic, fine and medium grained;
								LITHOLOGIES LOGGED BETWEEN 40.5 AND 45.0 *
								METRES ARE PROBABLY CONTAMINATION FROM * ABOVE. MOST LIKELY LITHOLOGY IS A CARB- * ONACEOUS CLAY.
					54.60	2.60	CLAY and PEAT	Interbedded 60:40. CLAY: carbonaceous, medium to dark brown - grey, soft, high plasticity (clay), common woody fragments; PEAT;
								PEAT AS WRITTEN REFERS TO BRIGHT BANDED *
								COALLY WOODY FRAGMENTS
					55.20	0.60	PEAT and CLAY and SAND	Interbedded 60:20:20. PEAT; CLAY: carbonaceous, medium to dark brown - grey, soft, high plasticity (clay); SAND: quartzose, medium dense, non-plastic;
								PEAT REFERS TO BRIGHT BANDED COALLY *
								WOODY FRAGMENTS-SIMILAR OCCURRENCE * IN EL-707 YUMALI OF BRIGHT BANDED * COAL WITH LIGNITE * 52.0 - 56.2 METRES PROBABLY BANDED LIGNITE
					62.00	6.80	SAND	Quartzose, medium dense, non-plastic, fine and medium grained, common woody fragments;
								BREAK-OUT AT 63.0 M 5/10/81

9741076

STRAT NAME	SEQ NO.	SEAM NAME	WORK SECT	SAMPLE NUMBER	DEPTH (m)	THICK (m)	ROCK TYPE	GEOLOGICAL DESCRIPTION OF STRATA
					64.80	2.80	CLAY	Light to medium grey, firm, high plasticity (clay), occasional woody fragments;
								LOW STRENGTH CLAY; CRUMBLES READILY
					65.80	1.00	CLAY	Kaolinitic, light to medium grey, stiff, high plasticity (clay), common woody fragments;
								WHITE KAOLINITIC BLEBS COMMON, DISPERS- *
								IVE, CIRCULATION POOR
					70.50	4.70	CLAY	Kaolinitic, light to medium grey, stiff, high plasticity (clay).
					71.30	0.80	LIGNITE	Woody textured, medium to dark black - brown, low strength, brittle;
								BRIGHT BANDED FRAGMENTS COMMON
					72.00	0.70	CLAY	Kaolinitic, light to medium grey, firm, high plasticity (clay), subfissile;
								LOW STRENGTH CLAY, CRUMBLES READILY *
								RAN OUT OF RODS AT TOTAL DEPTH

END OF BORE AT 72.00 m

EL2080 LAUNCESTON. R0002

009

771077

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EL2080 LAUNCESTON. R0003
****

Easting:	486710.000
Northing:	5411640.000
Grid Type:	Australian Mapping Grid
Accuracy:	Approximate
Crl:	150.00
Datum:	Approximate Level - Not Surveyed
Sheet Reference:	
Sheet Index:	
Total Depth:	87.00
Drilling Commenced:	07/10/81
Drilling Completed:	10/10/81
Inclination:	
Azimuth:	
Standing Water Level:	1.0
Available Data:	Gamma Logs Density Logs Resistivity Logs Caliper Logs

Logging Organisation:	CSR Exploration and Evaluation Group
Logged By:	ELLIS
Drilling Contractor:	H.J. Stacpoole
Geophysical Logging:	Murdoch Geophysics
County:	
Parish:	
Portion:	
Plug Depths:	
Hole Diameter:	120
Core Diameter:	
Cased Depths:	1.8
Core Barrel:	
Drill Bits:	Blades

ALL ROCKS ARE FRESH UNLESS OTHERWISE INDICATED

7710478

STRAT NAME	SEG NO.	SEAM NAME	WORK SECT	SAMPLE NUMBER	DEPTH (m)	THICK (m)	ROCK TYPE	GEOLOGICAL DESCRIPTION OF STRATA
					0.50	0.50	SAND	Silty, medium to dark brown, medium dense, non-plastic, fine and medium grained.
					2.00	1.50	CLAY	Micaceous, light white - grey, stiff, low plasticity (clay).
					2.40	0.40	SAND	Quartzose, light to medium orange, medium dense, non-plastic, fine and medium grained, uniform, well sorted, rounded, gradational base.
					2.60	0.20	SAND	Quartzose, light yellow - grey, medium dense, non-plastic, fine and medium grained, uniform, well sorted, rounded.
					2.80	0.20	SAND	Clayey, quartzose, light white - grey, medium dense, non-plastic, fine and medium grained, uniform.
					4.50	1.70	SAND	Silty, light to medium orange - yellow, medium dense, non-plastic, fine and medium grained, uniform.
					5.20	0.70	CLAY	Carbonaceous, medium to dark brown, soft, low plasticity (clay), common ligneous wisps; Additional features include: abundant woody fragments.
					5.50	0.30	CLAY	Light to medium grey, firm, low plasticity (clay); Bands include: SAND, quartzose, clayey, light to medium grey, medium dense, non-plastic.
					5.60	0.10	SAND	Quartzose, light to medium orange, medium dense, non-plastic.
					7.00	1.40	LIGNEOUS CLAY	Medium to dark brown, soft, low plasticity (organic).
					8.60	1.60	SAND	Quartzose, light to medium orange - yellow, medium dense, non-plastic, fine grained.
					8.70	0.10	GRAVEL	Medium dense, non-plastic.
					13.50	4.80	SAND	Quartzose, clayey, light grey, medium dense, non-plastic, fine grained, well sorted, rounded, heavy minerals, accessory, disseminated; Additional features include: well rounded;
								CIRCULATION POOR FROM 6 METRES, USED *
								1200 GALLONS TO 12 METRES.

011
771079

STRAT NAME	SEQ NO.	SEAM NAME	WORK SECT	SAMPLE NUMBER	DEPTH (m)	THICK (m)	ROCK TYPE	GEOLOGICAL DESCRIPTION OF STRATA
					14.50	1.00	SAND	Clayey, ligneous, light to medium brown, medium dense, non-plastic, fine grained, occasional ligneous wisps; Additional features include: silty, quartzose, very fine grained; Bands include: LIGNEOUS CLAY, sandy, silty, medium to dark brown, firm, low plasticity (clay).
					22.50	8.00	SILT	Sandy, carbonaceous, light to medium grey - brown, medium dense, non-plastic, fine grained;
								MIXED 2XSACKS SUPERGEL, 1/2XSATCHEL *
								ROTROL. 1200 GALLONS WATER FROM * 12 TO 20 METRES. * CIRCULATION POOR AFTER MUD MIXING.
					24.20	1.70	CLAY	Sandy, silty, light to medium grey, soft, low plasticity (clay), abundant woody fragments; Additional features include: occasional ligneous wisps.
					24.90	0.70	SAND	Quartzose, carbonaceous, light grey, medium dense, non-plastic, fine grained, well sorted, rounded, equant.
					25.90	1.00	CLAY	Light to medium grey, soft, high plasticity (clay), occasional woody fragments.
					26.40	0.50	SAND	Quartzose, carbonaceous, light grey, medium dense, non-plastic, fine grained, well sorted, rounded, equant.
					26.80	0.40	CLAY	Light to medium grey, soft, high plasticity (clay), occasional woody fragments.
					30.00	3.20	SAND	Quartzose, carbonaceous, light grey, medium dense, non-plastic, fine grained;
								SANDS CONTAIN MINOR ROCK FRAGMENTS *
								AND FELDSPAR. COMMON SMALL CARBON- * ACEOUS FRAGMENTS. * USED 1200 GALLONS OF WATER FROM 20 * TO 30 METRES * PULLED RODS AT 30M 7/10/81 WATER * FLOWED FROM RODS 15 MINS. CLAY * BALLING CAUSING PRESSURIZING OF * FORMATIONS. DOUBTFUL IF LITHOLOGIES * FROM 8.7M ARE ALL SANDS AS LOGGED

012 271080

STRAT NAME	SEQ NO.	SEAM NAME	WORK SECT	SAMPLE NUMBER	DEPTH (m)	THICK (m)	ROCK TYPE	GEOLOGICAL DESCRIPTION OF STRATA
					30.50	0.50	CLAY	Light to medium grey, soft, high plasticity (clay).
					31.20	0.70	LIGNITE	Woody textured, dark black - brown, firm, friable; Bands include: INFERIOR LIGNITE, clayey, dark brown, firm, low plasticity (organic); Bands include: LIGNEOUS CLAY, dark brown, firm, low plasticity (organic).
					32.00	0.80	SAND	Quartzose, medium dense, non-plastic, fine grained.
					32.40	0.40	LIGNEOUS CLAY	Dark brown, firm, low plasticity (organic); Bands include: LIGNITE, dark black - brown, firm, friable; Bands include: CLAY, light to medium grey, soft, high plasticity (clay).
					33.80	1.40	CLAY	Light to medium grey, soft, high plasticity (clay).
					35.00	1.20	SAND	Quartzose, light grey, medium dense, non-plastic, fine and medium grained.
					37.30	2.30	CLAY	Bentonitic, light to medium grey, soft, low plasticity (clay), common woody fragments; Bands include: CLAY, carbonaceous, dark brown, soft, low plasticity (clay), occasional ligneous wisps.
					37.70	0.40	SAND	Quartzose, woody textured, light brown - grey, medium dense, non-plastic, fine and medium grained, abundant woody fragments.
					38.10	0.40	CLAY	Carbonaceous, medium to dark brown - grey, soft, low plasticity (clay), occasional ligneous wisps; Additional features include: common woody fragments; Bands include: CLAY, light to medium grey, soft, low plasticity (clay).

013
771081

STRAT NAME	SEQ NO.	SEAM NAME	WORK SECT	SAMPLE NUMBER	DEPTH (m)	THICK (m)	ROCK TYPE	GEOLOGICAL DESCRIPTION OF STRATA
					40.00	1.90	LIGNEOUS CLAY and LIGNITE	Interbedded 50:50. LIGNEOUS CLAY: sandy, quartzose, medium to dark brown, soft, low plasticity (organic), common woody fragments; LIGNITE: woody textured, medium to dark brown, low strength, brittle; Bands include: LIGNITE, medium to dark brown, firm, friable; Bands include: SAND, ligneous, quartzose, light to medium brown, medium dense, non-plastic, common woody fragments;
								SIMILAR TO LOWER SECTION OF LIGNEOUS *
								ZONE AT SEDAN
					43.00	3.00	CLAY	Carbonaceous, light to medium brown - grey, very soft, low plasticity (clay), gradational base, common woody fragments; Bands include: CLAY, bentonitic, light to medium grey, soft, low plasticity (clay).
					49.00	6.00	CLAY	Bentonitic, light to medium grey, firm, low plasticity (clay), gradational base;
								VERY POOR SAMPLE RETURN ONLY FIRM CLAY *
								RETURNED AS CHIPS. SOFT CLAYS DISPERSE
					52.70	3.70	CLAY	Carbonaceous, bentonitic, light to medium brown - grey, firm, low plasticity (clay).
					53.50	0.80	SAND	Quartzose, light grey - brown, medium dense, non-plastic, common woody fragments.
					56.20	2.70	LIGNEOUS CLAY	Medium to dark brown, soft, low plasticity (organic), common woody fragments; Bands include: CLAY, bentonitic, light to medium grey, soft, low plasticity (clay).
					58.00	1.80	SAND	Quartzose, silty, light grey - brown, medium dense, non-plastic, fine grained, common woody fragments; Bands include: CLAY, carbonaceous, silty, light to medium brown, soft, low plasticity (clay), common ligneous wisps.

771082

STRAT NAME	SEG NO.	SEAM NAME	WORK SECT	SAMPLE NUMBER	DEPTH (m)	THICK (m)	ROCK TYPE	GEOLOGICAL DESCRIPTION OF STRATA
					69.00	11.00	CLAY	Silty, light white, soft, low plasticity (clay); Bands include: SAND, quartzose, ligneous, light brown, medium dense, non-plastic, common woody fragments;
								USED 1200 GALLONS OF WATER FROM 30 *
								TO 64 METRES
					70.50	1.50	CLAY	Silty, light to medium grey - brown, soft, low plasticity (clay), occasional woody fragments.
					72.50	2.00	SILT	Clayey, ligneous, light brown - grey, loose, non-plastic;
								"SUB-BITUMINOUS DULL BANDED COALLY *
								BANDS ABUNDANT
					74.50	2.00	CLAY	Light to medium grey, firm, high plasticity (clay); Bands include: SILT, sandy, light grey, medium dense, non-plastic, very fine grained.
					75.90	1.40	SILT	Sandy, quartzose, soft, low plasticity (silt).
					76.80	0.90	CLAY	Light to medium grey, firm, high plasticity (clay), occasional woody fragments; Bands include: SILT, sandy, quartzose, light grey, medium dense, non-plastic, fine grained, occasional woody fragments.
					80.00	3.20	CLAY	Light to medium grey, firm, high plasticity (clay).
					87.00	7.00	CLAY and CLAY	Interbedded 80:20. CLAY: light to medium grey - green, firm, high plasticity (clay); CLAY: carbonaceous, light to medium brown - grey, soft, low plasticity (clay), common woody fragments;
								RAN OUT OF RODS AT T.D.

END OF BORE AT 87.00 m

015
271083

****
EL2080 LAUNCESTON. R0004
****

Easting:	5412960.000
Northing:	493260.000
Grid Type:	Australian Mapping Grid
Accuracy:	Approximate
Crl:	165.00
Datum:	Approximate Level - Not Surveyed
Sheet Reference:	
Sheet Index:	
Total Depth:	90.00
Drilling Commenced:	09/10/81
Drilling Completed:	12/10/81
Inclination:	
Azimuth:	
Standing Water Level:	7.7
Available Data:	Gamma Logs Density Logs Resistivity Logs Caliper Logs

Logging Organisation:	CSR Exploration and Evaluation Group
Logged By:	ELLIS
Drilling Contractor:	H.J. Stacpoole
Geophysical Logging:	Murdoch Geophysics
County:	
Parish:	
Portion:	
Plug Depths:	
Hole Diameter:	120
Core Diameter:	
Cased Depths:	
Core Barrel:	
Drill Bits:	Blades

ALL ROCKS ARE FRESH UNLESS OTHERWISE INDICATED

016
771084

LAUNCESTON. GEOLOGICAL LOG REPORT ATP EL2080 LAUNCESTON TENEMENT 2080

STRAT NAME	SEQ NO.	SEAM NAME	WORK SECT	SAMPLE NUMBER	DEPTH (m)	THICK (m)	ROCK TYPE	GEOLOGICAL DESCRIPTION OF STRATA
TE					4.00	4.00	CLAY	Mottled grey - white, weathered, stiff, high plasticity (clay), gradational base; Additional features include: yellow - red.
TE					6.50	2.50	CLAY	Mottled grey - yellow, weathered, firm, low plasticity (clay); Additional features include: brown; Bands include: CLAY, 00.10 m thick, base at 0005.50m, silty, light to medium yellow, weathered, firm, low plasticity (clay).
TE					8.40	1.90	CLAY	Light to medium purple - brown, firm, high plasticity (clay).
TE					10.40	2.00	CLAY	Carbonaceous, light to medium brown, firm, high plasticity (clay), common ligneous wisps.
TE					11.50	1.10	CLAY	Carbonaceous, light to medium grey - brown, firm, high plasticity (clay), occasional ligneous wisps.
TE					13.20	1.70	LIGNITE	Dark brown - black, firm, friable; Bands include: CLAY, carbonaceous, light to medium brown - grey, firm, high plasticity (clay).
TE					15.20	2.00	INFERIOR LIGNITE	Clayey, dark brown, firm, friable; Bands include: LIGNEOUS CLAY, medium to dark brown, firm, low plasticity (organic).
TE					15.80	0.60	LIGNEOUS CLAY	Medium to dark brown, firm, low plasticity (clay).
TE					17.15	1.35	INFERIOR LIGNITE	Dark brown - black, firm, friable; Bands include: LIGNEOUS CLAY, medium to dark brown, firm, low plasticity (organic).
TE					17.80	0.65	LIGNEOUS CLAY	Medium to dark brown, firm, low plasticity (organic).
TE					18.50	0.70	INFERIOR LIGNITE	Dark brown - black, firm, friable; Bands include: LIGNEOUS CLAY, medium to dark brown, firm, low plasticity (organic).
TE					19.30	0.80	LIGNITE	Dark brown - black, firm, friable.
TE					20.50	1.20	INFERIOR LIGNITE and LIGNEOUS CLAY	Interbedded 90:10. INFERIOR LIGNITE: clayey, dark brown - black, firm, friable; LIGNEOUS CLAY: medium to dark brown, firm, low plasticity (organic).

017
271085

STRAT NAME	SEG NO.	SEAM NAME	WORK SECT	SAMPLE NUMBER	DEPTH (m)	THICK (m)	ROCK TYPE	GEOLOGICAL DESCRIPTION OF STRATA
TE					21.65	1.15	LIGNITE	Dark brown - black, firm, friable; Bands include: LIGNEOUS CLAY, medium to dark brown, firm, low plasticity (organic).
TE					22.25	0.60	LIGNEOUS CLAY	Medium to dark brown, firm, low plasticity (organic).
TE					24.50	2.25	INFERIOR LIGNITE and LIGNEOUS CLAY	Interbedded 80:20. INFERIOR LIGNITE: clayey, dark brown - black, firm, friable; LIGNEOUS CLAY: medium to dark brown, firm, low plasticity (organic).
TE					25.20	0.70	LIGNITE	Dark brown - black, firm, friable.
TE					26.35	1.15	INFERIOR LIGNITE	Dark brown - black, firm, friable; Bands include: LIGNEOUS CLAY, medium to dark brown, firm, low plasticity (organic).
TE					27.20	0.85	LIGNEOUS CLAY	Medium to dark brown, firm, low plasticity (organic).
TE					27.50	0.30	INFERIOR LIGNITE	Dark brown - black, firm, friable.
TE					29.30	1.80	LIGNEOUS CLAY	Medium to dark brown, firm, low plasticity (organic); Bands include: INFERIOR LIGNITE, clayey, dark brown - black, firm, friable.
TE					29.80	0.50	INFERIOR LIGNITE	Dark brown - black, firm, friable; Bands include: LIGNEOUS CLAY, medium to dark brown, firm, friable.
TE					30.40	0.60	LIGNEOUS CLAY	Medium to dark brown, firm, low plasticity (organic).
TE					32.20	1.80	INFERIOR LIGNITE	Dark brown - black, firm, friable; Bands include: LIGNITE, dark brown - black, firm, friable.
TE					35.30	3.10	LIGNEOUS CLAY	Medium to dark brown, firm, low plasticity (organic); Bands include: INFERIOR LIGNITE, clayey, medium to dark brown, firm, friable.
TE					36.70	1.40	CLAY	Carbonaceous, light to medium brown, firm, low plasticity (clay).
TE					37.70	1.00	INFERIOR LIGNITE	Clayey, medium to dark brown, firm, friable; Bands include: INFERIOR LIGNITE, base at 0038.20m, clayey, medium to dark brown, firm, friable; Bands include: LIGNEOUS CLAY, medium to dark brown, firm, low plasticity (organic).

071089

STRAT NAME	SEQ NO.	SEAM NAME	WORK SECT	SAMPLE NUMBER	DEPTH (m)	THICK (m)	ROCK TYPE	GEOLOGICAL DESCRIPTION OF STRATA
TE					39.30	1.60	INFERIOR LIGNITE	Clayey, medium to dark brown, firm, friable.
TE					42.60	3.30	CLAY	Carbonaceous, light to medium brown, soft, low plasticity (clay); Bands include: LIGNEOUS CLAY, medium to dark brown, firm, low plasticity (organic).
TE					44.10	1.50	INFERIOR LIGNITE	Medium to dark brown - black, soft, friable; Bands include: INFERIOR LIGNITE, clayey, medium to dark brown, firm, friable; Bands include: LIGNEOUS CLAY, medium to dark brown, firm, low plasticity (organic).
TE					46.00	1.90	CLAY	Carbonaceous, light to medium brown, soft, low plasticity (clay); Bands include: LIGNEOUS CLAY, medium to dark brown, firm, low plasticity (organic); TRIPPED OUT OF HOLE AT 45.00 METRES 9/10/81
TE					46.40	0.40	INFERIOR LIGNITE	Medium to dark brown, firm, friable.
TE					47.60	1.20	CLAY	Carbonaceous, light to medium brown, soft, low plasticity (clay).
TE					49.50	1.90	CLAY	Light white - yellow, very soft, low plasticity (clay).
TE					49.80	0.30	SIDERITE	Light to medium brown - green, high strength, tough.
TE					50.30	0.50	CLAY	Light white - yellow, very soft, low plasticity (clay).
TE					50.80	0.50	SIDERITE and CLAY	Interbedded 50:50. SIDERITE: light to medium brown, low strength, brittle; CLAY: light white - yellow, very soft, low plasticity (clay).
TE					54.60	3.80	CLAY	Mottled white - cream, soft, low plasticity (clay); Additional features include: yellow; Bands include: SIDERITE, 00.10 m thick, base at 0052.50m, light to medium brown, low strength, brittle.
TE					58.40	3.80	CLAY and CLAY	Interbedded 70:30. CLAY: carbonaceous, light to medium grey - brown, soft, low plasticity (clay), common woody fragments; CLAY: mottled white - cream, soft, low plasticity (clay); Additional features include: yellow.

019
77108

STRAT NAME	SEQ NO.	SEAM NAME	WORK SECT	SAMPLE NUMBER	DEPTH (m)	THICK (m)	ROCK TYPE	GEOLOGICAL DESCRIPTION OF STRATA
TE					58.80	0.40	SIDERITE	Light to medium brown, high strength, tough.
TE					59.80	1.00	SAND	Quartzose, clayey, light grey, medium dense, non-plastic, fine grained.
TE					63.30	3.50	CLAY	Sandy, quartzose, light to medium grey, firm, high plasticity (clay), very fine grained.
TE					64.80	1.50	SAND	Quartzose, clayey, light grey, medium dense, non-plastic, fine grained.
TE					65.00	0.20	SIDERITE	Light to medium brown, high strength, tough; CIRCULATION POOR BETWEEN 61.8 AND 65.00 METRES *
TE					66.00	1.00	SAND	Quartzose, clayey, light grey, medium dense, non-plastic, fine and medium grained.
TE					70.00	4.00	CLAY	Sandy, quartzose, light grey, very soft, low plasticity (clay), fine and medium grained.
TE					76.00	6.00	CLAY	Silty, sandy, light grey, very soft, low plasticity (clay), fine grained; Bands include: CLAY, light white, very soft, low plasticity (clay).
TE					81.00	5.00	SAND	Quartzose, light grey, medium dense, non-plastic, fine and medium grained.
TE					90.00	9.00	SAND	Quartzose, light grey, medium dense, non-plastic, fine grained.

END OF BORE AT 90.00 m

071088

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EL2080 LAUNCESTON. C004R
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Easting:	493260.000	Logging Organisation:	CSR Exploration and Evaluation Group
Northing:	5412960.000	Logged By:	ELLIS
Grid Type:	Australian Mapping Grid	Drilling Contractor:	H.J. Stacpoole
Accuracy:	Approximate	Geophysical Logging:	Murdoch Geophysics
Crl:	165.00		
Datum:	Approximate Level - Not Surveyed		
Sheet Reference:		County:	
Sheet Index:		Parish:	
Total Depth:	43.14	Portion:	
Drilling Commenced:	03/12/81		
Drilling Completed:	03/12/81		
Inclination:		Plug Depths:	
Azimuth:		Hole Diameter:	150
Standing Water Level:	3.2	Core Diameter:	100
		Cased Depths:	
		Core Barrel:	Tricfus Triple Barrel
Available Data:	Gamma Logs		
	Density Logs	Drill Bits:	Rollers
	Resistivity Logs		
	Caliper Logs		

ALL ROCKS ARE FRESH UNLESS OTHERWISE INDICATED

021
771089

STRAT NAME	SEQ NO.	SEAM NAME	WORK SECT	SAMPLE NUMBER	DEPTH (m)	THICK (m)	ROCK TYPE	GEOLOGICAL DESCRIPTION OF STRATA
				R	10.38	10.38	NO RECORD	
				C2784	10.68	0.30	CLAY	Light to medium grey - brown; firm; high plasticity (clay); good core - unbroken.
				C2784	10.72	0.04	CLAY	Light to medium brown; firm; high plasticity (clay); good core - unbroken.
				C2784	10.85	0.13	CLAY	Ligneous; medium to dark brown; firm; high plasticity (clay); good core - unbroken; common ligneous wisps.
				C2784	10.91	0.06	CLAY	Light to medium grey - brown; firm; high plasticity (clay); good core - unbroken; gradational base.
				C2784	11.03	0.12	CLAY	Light to medium brown; firm; high plasticity (clay); good core - unbroken.
				C2784	11.10	0.07	LIGNEOUS CLAY	Dark brown; firm; high plasticity (organic); good core - unbroken; occasional ligneous wisps.
				C2784	11.21	0.11	LIGNEOUS CLAY	Dark brown; firm; high plasticity (organic); good core - unbroken; subfissile; abundant ligneous wisps.
				C2784	11.61	0.40	CLAY	Light to medium brown - grey; firm; slickensides on fracture; high plasticity (clay); common; oblique joints; angle of joints 50 degrees; good core - unbroken; gradational base; occasional ligneous wisps; LESS CARBONACEOUS TOWARDS BASE
				C2784	12.00	0.39	CLAY	Light to medium grey - brown; firm; slickensides on fracture; high plasticity (clay); common; oblique joints; angle of joints 50 degrees.
				C2784	12.01	0.01	LIGNITE	Dark brown - black; firm; friable; good core - unbroken.
					13.31	1.30	CORE LOSS	CORE GROUND AWAY; BARREL NOT CLEARED OF * BROKEN PVC CASING
				C2785	13.38	0.07	LIGNITE	Dark brown - black; firm; friable; good core - unbroken; fissile.

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271090

LAUNCESTON. GEOLOGICAL LOG REPORT ATP EL2080 LAUNCESTON TENEMENT 2080

STRAT NAME	SEQ NO.	SEAM NAME	WORK SECT	SAMPLE NUMBER	DEPTH (m)	THICK (m)	ROCK TYPE	GEOLOGICAL DESCRIPTION OF STRATA
				C2785	13.52	0.14	LIGNITE	Dark brown - black; firm; friable; good core - unbroken.
				C2785	13.59	0.07	LIGNITE	Dark brown - black; firm; friable; good core - unbroken; fissile.
				C2785	13.63	0.04	LIGNITE	Dark brown; firm; friable; good core - unbroken.
				C2785	13.65	0.02	INFERIOR LIGNITE	Clayey; dark brown; firm; low plasticity (organic); good core - unbroken; subfissile.
				C2785	13.72	0.07	LIGNITE	Clayey; dark brown; firm; friable; good core - unbroken.
				C2785	13.74	0.02	LIGNEOUS CLAY	Dark brown - black; firm; low plasticity (clay); good core - unbroken.
				C2785	13.89	0.15	LIGNITE	Dark brown - black; firm; friable; good core - unbroken; sharp planar base; beds dip at 00 degrees.
				C2785	13.94	0.05	LIGNEOUS CLAY	Dark brown; firm; high plasticity (clay); good core - unbroken; sharp oblique base; beds dip at 03 degrees.
				C2785	14.07	0.13	LIGNITE	Dark brown; firm; friable; good core - unbroken; gradational base.
				C2785	14.14	0.07	LIGNITE	Dark brown - black; firm; friable; good core - unbroken; subfissile; gradational base.
				C2785	14.33	0.19	LIGNITE	Clayey; dark brown - black; firm; friable; good core - unbroken; common woody fragments; Bands include: LIGNEOUS CLAY; 00.05 m thick; base at 0014.28m; dark brown; firm; high plasticity (organic); good core - unbroken.
				C2785	14.45	0.12	LIGNITE	Dark brown; firm; friable; good core - unbroken.
				C2786	14.53	0.08	LIGNITE	Clayey; dark brown - black; firm; friable; good core - unbroken.
				C2786	14.57	0.04	LIGNEOUS CLAY	Dark brown; firm; low plasticity (organic); good core - unbroken.
				C2786	14.68	0.11	LIGNITE	Dark brown; firm; friable; good core - unbroken; sharp oblique base; beds dip at 05 degrees.
				C2786	14.69	0.01	INFERIOR LIGNITE	Clayey; dark brown; firm; friable; good core - unbroken; sharp oblique base; beds dip at 05 degrees.

023 771091

STRAT NAME	SEQ NO.	SEAM NAME	WORK SECT	SAMPLE NUMBER	DEPTH (m)	THICK (m)	ROCK TYPE	GEOLOGICAL DESCRIPTION OF STRATA
				C2786	14.75	0.06	LIGNITE	Dark brown; firm; friable; good core - unbroken; sharp oblique base; beds dip at 05 degrees.
				C2787	14.81	0.06	INFERIOR LIGNITE	Clayey; dark brown; firm; friable; good core - unbroken; sharp oblique base; beds dip at 05 degrees.
				C2787	14.88	0.07	LIGNITE	Dark brown; firm; friable; good core - unbroken; sharp oblique base; beds dip at 02 degrees.
				C2787	14.92	0.04	INFERIOR LIGNITE	Clayey; medium to dark brown; firm; friable; good core - unbroken; gradational base.
				C2787	15.26	0.34	LIGNITE	Dark brown - black; firm; friable; good core - unbroken; sharp planar base; beds dip at 00 degrees.
				C2788	15.30	0.04	LIGNEOUS CLAY	Dark brown; firm; friable; good core - unbroken.
				C2788	15.35	0.05	INFERIOR LIGNITE	Clayey; medium to dark brown - grey; firm; friable; good core - unbroken.
				C2788	15.45	0.10	INFERIOR LIGNITE	Clayey; medium to dark grey - brown; firm; friable; good core - unbroken; Bands include: LIGNEOUS CLAY; medium to dark brown; firm; low plasticity (organic); good core - unbroken.
				C2788	15.68	0.23	INFERIOR LIGNITE	Clayey; dark brown; firm; friable; good core - unbroken; sharp planar base; beds dip at 00 degrees.
				C2788	15.83	0.15	LIGNITE	Dark brown; firm; friable; good core - unbroken.
				C2788	15.90	0.07	CLAY	Dark brown - grey; firm; low plasticity (clay); good core - unbroken.
				C2788	15.93	0.03	INFERIOR LIGNITE	Clayey; dark brown; firm; friable; good core - unbroken.
				C2788	15.95	0.02	LIGNITE	Clayey; dark brown; firm; friable; good core - unbroken.
				C2788	15.98	0.03	LIGNITE	Dark brown; firm; friable; good core - unbroken.
				C2788	16.00	0.02	INFERIOR LIGNITE	Clayey; dark brown; firm; friable; good core - unbroken.
				C2788	16.10	0.10	LIGNITE	Dark brown; firm; friable; good core - unbroken.
				C2788	16.15	0.05	LIGNITE	Clayey; dark brown - black; firm; friable; good core - unbroken; fissile.

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7710092

STRAT NAME	SEQ NO.	SEAM NAME	WORK SECT	SAMPLE NUMBER	DEPTH (m)	THICK (m)	ROCK TYPE	GEOLOGICAL DESCRIPTION OF STRATA
				C2788	16.24	0.09	LIGNITE	Dark brown; firm, friable; good core - unbroken.
				C2788	16.30	0.06	LIGNEOUS CLAY	Medium to dark brown; firm; high plasticity (clay); good core - unbroken; subfissile.
				C2788	16.32	0.02	LIGNITE	Dark brown; firm; friable; good core - unbroken.
				C2790	16.36	0.04	LIGNITE	Dark brown - black; firm; friable; good core - unbroken.
				C2790	16.37	0.01	INFERIOR LIGNITE	Clayey; dark brown; firm; friable; good core - unbroken; gradational base.
				C2790	16.44	0.07	LIGNEOUS CLAY	Dark brown - grey; firm; friable; good core - unbroken; subfissile.
				C2790	16.47	0.03	INFERIOR LIGNITE	Clayey; dark black - brown; firm; friable; good core - unbroken.
				C2790	16.50	0.03	LIGNEOUS CLAY	Dark brown - grey; firm; low plasticity (organic); good core - unbroken.
				C2790	16.55	0.05	LIGNEOUS CLAY	Dark brown; firm; low plasticity (organic); good core - unbroken.
				C2790	16.60	0.05	INFERIOR LIGNITE	Clayey; dark brown; firm; friable; good core - unbroken.
				C2790	16.65	0.05	LIGNEOUS CLAY	Medium to dark brown - grey; firm; low plasticity (organic); good core - unbroken.
				C2790	16.68	0.03	LIGNEOUS CLAY	Dark grey - brown; firm; low plasticity (clay); good core - unbroken.
				C2790	16.75	0.07	INFERIOR LIGNITE	Clayey; dark brown - grey; firm; friable; good core - unbroken.
				C2790	16.86	0.11	LIGNITE	Clayey; dark brown - black; firm; friable; good core - unbroken.
				C2790	16.90	0.04	LIGNITE	Dark brown - black; firm; friable; good core - unbroken.
				C2790	17.08	0.18	LIGNITE	Clayey; dark brown - black; firm; friable; good core - unbroken.
				C2791	17.13	0.05	INFERIOR LIGNITE	Clayey; dark brown; firm; friable; good core - unbroken.

025
771093

STRAT NAME	SEQ NO.	SEAM NAME	WORK SECT	SAMPLE NUMBER	DEPTH (m)	THICK (m)	ROCK TYPE	GEOLOGICAL DESCRIPTION OF STRATA
				C2791	17.20	0.07	LIGNEOUS CLAY	Medium to dark brown; firm; low plasticity (clay); good core - unbroken.
				C2791	17.75	0.55	CLAY	Ligneous; medium to dark brown; firm; high plasticity (organic); good core - unbroken.
				C2791	17.77	0.02	INFERIOR LIGNITE	Clayey; medium to dark brown - grey; firm; friable; good core - unbroken.
				C2792	17.82	0.05	LIGNITE	Dark brown; firm; friable; good core - unbroken; sharp irregular base.
				C2792	17.85	0.03	CLAY	Ligneous; medium to dark brown - grey; firm; high plasticity (clay); good core - unbroken; occasional ligneous wisps.
				C2792	17.86	0.01	LIGNITE	Dark brown; firm; friable; good core - unbroken.
				C2792	17.88	0.02	LIGNEOUS CLAY	Medium to dark brown; firm; low plasticity (clay); good core - unbroken.
				C2792	17.99	0.11	LIGNITE	Dark brown; firm; friable; good core - unbroken; Bands include: INFERIOR LIGNITE; medium to dark brown - grey; firm; friable; good core - unbroken.
				C2792	18.02	0.03	LIGNEOUS CLAY	Medium to dark brown - grey; firm; low plasticity (clay); good core - unbroken.
				C2792	18.09	0.07	CLAY	Light to medium brown; firm; low plasticity (clay); good core - unbroken; gradational base.
				C2792	18.12	0.03	INFERIOR LIGNITE	Clayey; dark brown; firm; friable; good core - unbroken.
				C2792	18.14	0.02	LIGNEOUS CLAY	Medium to dark brown; firm; low plasticity (clay); good core - unbroken.
				C2792	18.38	0.24	LIGNITE	Dark brown; firm; friable; good core - unbroken.
				C2792	18.40	0.02	INFERIOR LIGNITE	Clayey; dark brown - grey; firm; friable; good core - unbroken; sharp oblique base; beds dip at 05 degrees.
				C2792	18.51	0.11	CLAY	Ligneous; medium to dark brown; good core - unbroken; sharp oblique base; beds dip at 10 degrees.
				C2792	18.58	0.07	LIGNITE	Dark brown; firm; friable; good core - unbroken.

771094

STRAT NAME	SEQ NO.	SEAM NAME	WORK SECT	SAMPLE NUMBER	DEPTH (m)	THICK (m)	ROCK TYPE	GEOLOGICAL DESCRIPTION OF STRATA
				C2792	18.61	0.03	LIGNEOUS CLAY	Medium to dark brown - grey; firm; low plasticity (organic); good core - unbroken; gradational base.
				C2792	18.69	0.08	LIGNEOUS CLAY	Medium to dark brown - grey; firm; friable; good core - unbroken; sharp oblique base; beds dip at 15 degrees.
				C2792	18.83	0.14	LIGNITE	Dark brown; firm; friable; good core - unbroken; RARE CLAY LENSES
				C2792	18.86	0.03	LIGNEOUS CLAY	Dark brown - grey; firm; friable; good core - unbroken.
				C2792	18.98	0.12	LIGNITE	Clayey; dark brown; firm; friable; good core - unbroken.
				C2794	19.01	0.03	LIGNITE	Dark brown; firm; friable; good core - unbroken; sharp oblique base; beds dip at 10 degrees.
				C2794	19.08	0.07	INFERIOR LIGNITE	Clayey; dark brown - grey; firm; friable; good core - unbroken; sharp oblique base; beds dip at 10 degrees; Bands include: LIGNEOUS CLAY; medium to dark brown; firm; friable; good core - unbroken.
				C2794	19.18	0.10	INFERIOR LIGNITE	Clayey; dark brown - grey; firm; friable; good core - unbroken.
				C2794	19.20	0.02	LIGNEOUS CLAY	Dark brown; firm; high plasticity (clay); good core - unbroken.
				C2794	19.22	0.02	INFERIOR LIGNITE	Clayey; dark brown - grey; firm; friable; good core - unbroken.
				C2794	19.24	0.02	LIGNEOUS CLAY	Medium to dark brown; firm; high plasticity (clay); good core - unbroken.
				C2794	19.28	0.04	INFERIOR LIGNITE	Clayey; medium to dark brown - grey; firm; friable; good core - unbroken.
				C2794	19.37	0.09	INFERIOR LIGNITE	Clayey; medium to dark brown - grey; firm; friable; good core - unbroken; sharp oblique base; beds dip at 05 degrees.
				C2794	19.40	0.03	INFERIOR LIGNITE	Clayey; dark brown - grey; firm; friable; good core - unbroken.
				C2794	19.49	0.09	LIGNEOUS CLAY	Medium to dark brown - grey; firm; low plasticity (clay); good core - unbroken.

027 271095

LAUNCESTON. GEOLOGICAL LOG REPORT ATP EL2080 LAUNCESTON TENEMENT 2080

STRAT NAME	SEQ NO.	SEAM NAME	WORK SECT	SAMPLE NUMBER	DEPTH (m)	THICK (m)	ROCK TYPE	GEOLOGICAL DESCRIPTION OF STRATA
				C2795	19.56	0.07	CLAY	Ligneous; medium to dark brown; firm; high plasticity (clay); good core - unbroken.
				C2795	19.60	0.04	CLAY	Ligneous; medium to dark brown; firm; high plasticity (clay); good core - unbroken; sharp oblique base; beds dip at 05 degrees; abundant woody fragments.
				C2795	19.66	0.06	CLAY	Light to medium brown; firm; high plasticity (clay); good core - unbroken.
				C2795	19.78	0.12	INFERIOR LIGNITE	Clayey; dark brown; firm; friable; good core - unbroken; sharp oblique base; beds dip at 10 degrees.
				C2795	19.88	0.10	CLAY	Ligneous; medium to dark brown; firm; high plasticity (clay); good core - unbroken; sharp oblique base; beds dip at 05 degrees.
				C2795	19.91	0.03	INFERIOR LIGNITE	Clayey; dark brown - black; firm; friable; good core - unbroken.
				C2795	19.94	0.03	CLAY	Ligneous; medium to dark brown; firm; friable; good core - unbroken.
				C2795	20.01	0.07	INFERIOR LIGNITE	Clayey; dark brown - grey; firm; friable; good core - unbroken; sharp oblique base; beds dip at 05 degrees.
				C2795	20.05	0.04	CLAY	Ligneous; medium to dark brown; firm; high plasticity (clay); good core - unbroken; sharp oblique base; beds dip at 10 degrees.
				C2795	20.18	0.13	INFERIOR LIGNITE	Clayey; medium to dark brown - grey; firm; friable; good core - unbroken.
				C2795	20.38	0.20	INFERIOR LIGNITE	Clayey; dark brown - grey; firm; friable; good core - unbroken.
				C2795	20.40	0.02	LIGNITE	Dark brown; firm; friable; good core - unbroken.
				C2795	20.42	0.02	CLAY	Ligneous; medium to dark brown; firm; low plasticity (clay); good core - unbroken.
				C2795	20.49	0.07	LIGNEOUS CLAY	Dark brown - grey; firm; low plasticity (clay); good core - unbroken.
				C2796	20.54	0.05	INFERIOR LIGNITE	Clayey; medium to dark brown - grey; firm; friable; good core - unbroken.

028

271096

REPORT TG14-01 THIESS COAL SYSTEM PAGE 8 11/ 6/82 16:24:05

STRAT NAME	SEQ NO.	SEAM NAME	WORK SECT	SAMPLE NUMBER	DEPTH (m)	THICK (m)	ROCK TYPE	GEOLOGICAL DESCRIPTION OF STRATA
				C2796	20.57	0.03	LIGNITE	Dark brown; firm; friable; good core - unbroken.
				C2796	20.60	0.03	LIGNEOUS CLAY	Medium to dark brown - grey; firm; low plasticity (clay); good core - unbroken.
				C2796	20.87	0.27	LIGNITE	Dark brown; firm; friable; good core - unbroken; occasional resin aggregates; Bands include: LIGNEOUS CLAY; dark brown - grey; firm; low plasticity (clay); good core - unbroken.
				C2796	21.15	0.28	LIGNITE	Clayey; dark brown; firm; friable; good core - unbroken; Bands include: LIGNEOUS CLAY; dark brown - grey; firm; low plasticity (clay); good core - unbroken.
				C2796	21.20	0.05	LIGNITE	Dark brown; firm; friable; good core - unbroken.
				C2796	21.25	0.05	LIGNITE	Clayey; dark brown; firm; friable; good core - unbroken.
				C2796	21.30	0.05	LIGNITE	Woody textured; dark brown; firm; friable; good core - unbroken.
				C2796	21.48	0.18	LIGNITE	Dark brown - black; firm; friable; good core - unbroken; Bands include: LIGNITE; clayey; dark brown; firm; friable; good core - unbroken.
				C2796	21.52	0.04	LIGNEOUS CLAY	Medium to dark brown - grey; firm; friable; good core - unbroken.
				C2796	21.57	0.05	LIGNITE	Dark brown; firm; friable; good core - unbroken; subfissile.
				C2796	21.64	0.07	CLAY	Ligneous; medium to dark brown - grey; firm; high plasticity (clay); good core - unbroken.
				C2796	21.75	0.11	LIGNITE	Dark brown; firm; friable; good core - unbroken.
				C2798	21.78	0.03	INFERIOR LIGNITE	Clayey; dark brown; firm; friable; good core - unbroken.
				C2798	21.82	0.04	LIGNITE	Medium to dark brown; firm; friable; good core - unbroken.
				C2798	21.91	0.09	CLAY	Medium to dark brown; firm; high plasticity (clay); good core - unbroken.
				C2798	22.04	0.13	LIGNITE	Dark brown; firm; friable; good core - unbroken.
				C2799	22.10	0.06	INFERIOR LIGNITE	Clayey; dark brown; firm; friable; good core - unbroken.

039
773097

STRAT NAME	SEQ NO.	SEAM NAME	WORK SECT	SAMPLE NUMBER	DEPTH (m)	THICK (m)	ROCK TYPE	GEOLOGICAL DESCRIPTION OF STRATA
				C2799	22.13	0.03	INFERIOR LIGNITE	Clayey; medium to dark brown; firm; high plasticity (organic); good core - unbroken.
				C2799	22.16	0.03	INFERIOR LIGNITE	Clayey; medium to dark brown; firm; friable; good core - unbroken.
				C2799	22.27	0.11	INFERIOR LIGNITE	Clayey; medium to dark brown; firm; low plasticity (organic); good core - unbroken.
				C2800	22.64	0.37	LIGNITE	Dark brown; firm; friable; good core - unbroken; sharp planar base; beds dip at 00 degrees.
				C2800	22.66	0.02	LIGNEOUS CLAY	Dark brown; firm; high plasticity (clay); good core - unbroken.
				C2800	22.76	0.10	LIGNITE	Dark brown; firm; friable; good core - unbroken.
				C2800	22.86	0.10	INFERIOR LIGNITE	Clayey; dark brown; firm; friable; good core - unbroken; gradational base.
				C2800	22.93	0.07	LIGNEOUS CLAY	Dark brown; firm; high plasticity (clay); good core - unbroken.
				C2801	22.95	0.02	CLAY	Medium to dark brown; firm; high plasticity (clay); good core - unbroken.
				C2801	23.04	0.09	LIGNITE	Dark brown; firm; friable; good core - unbroken.
				C2801	23.07	0.03	LIGNEOUS CLAY	Medium to dark brown; firm; high plasticity (clay); good core - unbroken.
				C2801	23.12	0.05	INFERIOR LIGNITE	Clayey; dark brown; firm; friable; good core - unbroken; gradational base.
				C2801	23.25	0.13	LIGNITE	Clayey; dark brown; firm; friable; good core - unbroken; gradational base; beds dip at 10 degrees.
				C2801	23.28	0.03	LIGNEOUS CLAY	Medium to dark brown; firm; high plasticity (clay); good core - unbroken; sharp oblique base; beds dip at 10 degrees.
				C2801	23.54	0.26	LIGNITE	Dark brown - black; firm; friable; good core - unbroken; CONTAINS RARE CLAY LENSES

030

77098

STRAT NAME	SEQ NO.	SEAM NAME	WORK SECT	SAMPLE NUMBER	DEPTH (m)	THICK (m)	ROCK TYPE	GEOLOGICAL DESCRIPTION OF STRATA
				C2801	23.69	0.15	LIGNITE	Dark brown; firm; friable; good core - unbroken; FIBROUS LIGNITE
				C2801	23.83	0.14	INFERIOR LIGNITE	Clayey; dark brown; firm; friable; good core - unbroken; sharp oblique base; beds dip at 05 degrees; INCREASED CLAY CONTENT TOWARDS BASE
				C2801	23.88	0.05	LIGNEOUS CLAY	Medium to dark brown; firm; low plasticity (clay); good core - unbroken; sharp oblique base; beds dip at 05 degrees.
				C2801	23.90	0.02	CLAY	Medium to dark brown; firm; high plasticity (clay); good core - unbroken.
				C2801	24.24	0.34	CLAY	Light to medium brown - grey; firm; high plasticity (clay); good core - unbroken; sharp irregular base; common resin addregates; Additional features include: occasional woody fragments.
				C2803	24.28	0.04	LIGNEOUS CLAY	Dark brown - black; firm; high plasticity (clay); good core - unbroken; common bioturbation.
				C2803	24.39	0.11	LIGNITE	Clayey; dark brown - black; firm; friable; good core - unbroken.
				C2803	24.42	0.03	INFERIOR LIGNITE	Clayey; dark brown - black; firm; low plasticity (organic); good core - unbroken.
				C2803	24.45	0.03	LIGNITE	Dark brown - black; firm; friable; good core - unbroken; sharp oblique base; beds dip at 15 degrees.
				C2803	24.49	0.04	LIGNEOUS CLAY	Medium to dark brown; firm; high plasticity (clay); good core - unbroken.
				C2803	24.57	0.08	CLAY	Ligneous; medium to dark brown - grey; firm; high plasticity (clay); good core - unbroken.
				C2803	24.63	0.06	LIGNITE	Dark brown - black; firm; friable; good core - unbroken.
				C2803	24.65	0.02	LIGNEOUS CLAY	Medium to dark brown; firm; low plasticity (clay); good core - unbroken.
				C2803	24.70	0.05	LIGNITE	Dark brown; firm; friable; good core - unbroken.

031
771099

STRAT NAME	SEQ NO.	SEAM NAME	WORK SECT	SAMPLE NUMBER	DEPTH (m)	THICK (m)	ROCK TYPE	GEOLOGICAL DESCRIPTION OF STRATA
				C2803	24.77	0.07	LIGNITE	Woody textured; dark brown; firm; friable; good core - unbroken.
				C2803	24.81	0.04	INFERIOR LIGNITE	Clayey; medium to dark grey - brown; firm; friable; good core - unbroken.
				C2804	24.86	0.05	LIGNITE	Clayey; dark brown - black; firm; friable; good core - unbroken.
				C2804	24.91	0.05	INFERIOR LIGNITE	Clayey; medium to dark brown; firm; friable; good core - unbroken; gradational base.
				C2804	24.96	0.05	CLAY	Ligneous; medium to dark brown; firm; high plasticity (clay); good core - unbroken.
				C2804	24.99	0.03	LIGNEOUS CLAY	Medium to dark brown; firm; high plasticity (clay); good core - unbroken.
				C2804	25.11	0.12	INFERIOR LIGNITE	Clayey; medium to dark brown - black; firm; friable; good core - unbroken; gradational base.
				C2804	25.13	0.02	LIGNEOUS CLAY	Medium to dark brown; firm; high plasticity (clay); good core - unbroken.
				C2804	25.19	0.06	LIGNEOUS CLAY	Medium to dark brown; firm; low plasticity (clay); good core - unbroken.
				C2804	25.26	0.07	LIGNEOUS CLAY	Medium to dark brown; firm; friable; good core - unbroken.
				C2804	25.32	0.06	LIGNITE	Dark brown - black; firm; friable; good core - unbroken.
				C2804	25.34	0.02	INFERIOR LIGNITE	Clayey; dark brown - black; firm; friable; good core - unbroken.
				C2804	25.36	0.02	LIGNITE	Dark brown - black; firm; friable; good core - unbroken.
				C2804	25.39	0.03	INFERIOR LIGNITE	Clayey; dark brown - black; firm; friable; good core - unbroken; sharp oblique base; beds dip at 10 degrees.
				C2804	25.42	0.03	CLAY	Ligneous; light to medium brown; firm; high plasticity (clay); good core - unbroken.
				C2804	25.45	0.03	LIGNEOUS CLAY	Medium to dark brown; firm; low plasticity (clay); good core - unbroken.
				C2804	25.55	0.10	LIGNITE	Dark brown - black; firm; friable; good core - unbroken.

032
271100

STRAT NAME	SEQ NO.	SEAM NAME	WORK SECT	SAMPLE NUMBER	DEPTH (m)	THICK (m)	ROCK TYPE	GEOLOGICAL DESCRIPTION OF STRATA
				C2804	25.73	0.18	INFERIOR LIGNITE and CLAY	Interbedded 80:20. INFERIOR LIGNITE: clayey, dark brown, firm, friable, good core - unbroken; CLAY: ligneous, medium to dark brown, firm, high plasticity (clay), good core - unbroken.
				C2804	25.78	0.05	LIGNEOUS CLAY	Medium to dark brown, firm, high plasticity (clay), good core - unbroken, sharp oblique base, beds dip at 15 degrees.
				C2804	25.83	0.05	LIGNITE	Dark brown, firm, friable, good core - unbroken.
				C2804	26.09	0.26	LIGNEOUS CLAY and INFERIOR LIGNITE	Interbedded 60:40. LIGNEOUS CLAY: medium to dark brown, firm, high plasticity (clay), good core - unbroken; INFERIOR LIGNITE: clayey, dark brown, firm, friable, good core - unbroken.
				C2804	26.20	0.11	CLAY	Ligneous, medium to dark brown, firm, low plasticity (clay), good core - unbroken, abundant ligneous wisps.
				C2805	26.54	0.34	LIGNITE	Dark brown, firm, friable, good core - unbroken.
				C2806	27.24	0.70	LIGNITE and INFERIOR LIGNITE	Interbedded 80:20. LIGNITE: dark brown, firm, friable, good core - unbroken, common woody fragments; INFERIOR LIGNITE: clayey, dark brown, firm, friable, good core - unbroken.
				C2806	27.38	0.14	INFERIOR LIGNITE	Clayey, dark brown, firm, friable, good core - unbroken.
				C2806	27.44	0.06	LIGNEOUS CLAY	Medium to dark brown, firm, high plasticity (organic), good core - unbroken.
				C2806	27.51	0.07	CLAY	Ligneous, light to medium brown - grey, firm, good core - unbroken, abundant bioturbation.
				C2806	27.56	0.05	LIGNITE	Dark brown - black, firm, friable, good core - unbroken.
				C2807	27.59	0.03	INFERIOR LIGNITE	Clayey, dark brown - black, firm, friable, good core - unbroken.
				C2807	27.80	0.21	INFERIOR LIGNITE	Clayey, dark brown - black, firm, low plasticity (clay), good core - unbroken.
				C2807	27.85	0.05	INFERIOR LIGNITE	Clayey, dark brown - black, firm, friable, good core - unbroken.

033
771101

STRAT NAME	SEQ NO.	SEAM NAME	WORK SECT	SAMPLE NUMBER	DEPTH (m)	THICK (m)	ROCK TYPE	GEOLOGICAL DESCRIPTION OF STRATA
				C2807	28.05	0.20	INFERIOR LIGNITE	Clayey; dark brown - black; firm; friable; good core - unbroken; occasional woody fragments;
								LENSES OF LIGNEOUS CLAY; DARK BROWN *
								FIRM HIGHLY PLASTIC
				C2807	28.26	0.21	INFERIOR LIGNITE	Clayey; dark brown; firm; friable; good core - unbroken.
				C2807	28.37	0.11	INFERIOR LIGNITE	Clayey; dark brown; firm; friable; good core - unbroken;
								FIBROUS LIGNITE
				C2807	28.39	0.02	LIGNEOUS CLAY	Dark brown - grey; firm; high plasticity (clay); good core - unbroken; sharp oblique base; beds dip at 20 degrees.
				C2807	28.57	0.18	LIGNITE	Dark brown; firm; friable; good core - unbroken; Bands include: INFERIOR LIGNITE; dark brown; firm; friable; good core - unbroken.

094

271102

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EL2080 LAUNCESTON. R0005
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Easting:	494590.000	Logging Organisation:	CSR Exploration and Evaluation Group
Northing:	5409370.000	Logged By:	ELLIS
Grid Type:	Australian Mapping Grid	Drilling Contractor:	H.J. Stacpoole
Accuracy:	Approximate	Geophysical Logging:	Murdoch Geophysics
Crl:	150.00		
Datum:	Approximate Level - Not Surveyed		
Sheet Reference:		County:	
Sheet Index:		Parish:	
Total Depth:	53.60	Portion:	
Drilling Commenced:	13/10/81		
Drilling Completed:	14/10/81		
Inclination:		Plug Depths:	
Azimuth:		Hole Diameter:	150
Standing Water Level:	1.4	Core Diameter:	
		Cased Depths:	
		Core Barrel:	
Available Data:	Gamma Logs		
	Density Logs	Drill Bits:	Blades
	Resistivity Logs		
	Caliper Logs		

ALL ROCKS ARE FRESH UNLESS OTHERWISE INDICATED

053
271103

STRAT NAME	SEQ NO.	SEAM NAME	WORK SECT	SAMPLE NUMBER	DEPTH (m)	THICK (m)	ROCK TYPE	GEOLOGICAL DESCRIPTION OF STRATA
					0.30	0.30	SAND	Silty, clayey, light to medium brown, weathered, medium dense, non-plastic, fine and medium grained.
					1.50	1.20	CLAY	Light to medium brown - yellow, weathered, firm, high plasticity (clay);
								DERIVED FROM BASALT, CONTAINS COARSE *
								SAND-FINE GRAVEL BASALT FRAGMENTS
					1.80	0.30	CLAY	Mottled red - yellow, weathered, firm, high plasticity (clay), gradational base; Additional features include: grey.
					3.20	1.40	CLAY	Mottled grey - yellow, firm, high plasticity (clay); Additional features include: red.
					4.00	0.80	CLAY	Light brown - grey, firm, high plasticity (clay);
								LENSES OF LIGNEOUS CLAY
					5.50	1.50	CLAY	Mottled brown - grey, firm, high plasticity (clay); Additional features include: khaki.
					5.90	0.40	CLAY	Medium to dark brown, firm, high plasticity (clay).
					9.00	3.10	CLAY	Light grey - brown, firm, high plasticity (clay).
					11.60	2.60	CLAY	Light grey, firm, high plasticity (clay).
					12.15	0.55	CLAY	Sandy, light grey, firm, high plasticity (clay).
					12.70	0.55	SIDERITE	Sandy, light to medium brown, low strength, brittle; Bands include: SIDERITE, light to medium brown, high strength, tough.
					13.70	1.00	SAND	Gravelly, light brown, medium dense, non-plastic, fine and medium grained.

036

711104

STRAT NAME	SEG NO.	SEAM NAME	WORK SECT	SAMPLE NUMBER	DEPTH (m)	THICK (m)	ROCK TYPE	GEOLOGICAL DESCRIPTION OF STRATA
					18.00	4.30	CLAY	Light grey, soft, low plasticity (clay);
								CIRCULATION POOR FROM 9 METRES *
								DUE TO CLAY BALLING-PRESSURIZING * FORMATIONS, WATER PUMPING FROM * GROUND 7 M FROM RIG. USED 1200 GALL * ONS WATER TO 18 METRES.
					23.30	5.30	CLAY	Light to medium grey - brown, soft, high plasticity (clay); Bands include: SIDERITE, 00.05 m thick, base at 0018.65m, light to medium brown, low strength, brittle;
								LOST CIRCULATION DUE TO CLAY-BALI *
								NG. USED 1200 GALLONS BETWEEN 18 * AND 22 METRES. ADDED SALT.
					24.00	0.70	LIGNEOUS CLAY	Medium to dark brown, firm, low plasticity (organic).
					24.50	0.50	*INFERIOR LIGNITE*	*Clayey, medium to dark black - brown, firm, friable;* Bands include: LIGNITE, medium to dark black - brown, firm, friable.
					32.00	7.50	CLAY	Light to medium grey, soft, high plasticity (clay), common ligneous fragments; Additional features include: common woody fragments; Bands include: CLAY, carbonaceous, light to medium brown - grey, soft, high plasticity (clay), common ligneous fragments; Additional features include: common woody fragments.
					36.00	4.00	CLAY	Carbonaceous, light to medium brown - grey, soft, high plasticity (clay), common ligneous wisps.
					42.00	6.00	CLAY	Light to medium grey, soft, low plasticity (clay);
								MONTMORILLONITE/BENTONITE CLAY *
								LIGNEOUS CLAY LENSES AND WISPS

037 271105

STRAT NAME	SEQ NO.	SEAM NAME	WORK SECT	SAMPLE NUMBER	DEPTH (m)	THICK (m)	ROCK TYPE	GEOLOGICAL DESCRIPTION OF STRATA
					44.00	2.00	CLAY	Light to medium grey, soft, low plasticity (clay), common ligneous wisps;
								LIGNEOUS FRAGMENTS FIRM .FRIABLE. *
								POSSIBLY A LIGNEOUS HORIZON. SAMPLE * RETURN POOR, CIRCULATING MEDIUM TOO * THICK AND SAMPLE IS RECIRCULATED * THROUGH SYSTEM. CHANGE WATER, ADD * 1/4 BUCKET OF SALT.
					47.00	3.00	CLAY	Light to medium grey, soft, low plasticity (clay).
					53.60	6.60	CLAY	Light to medium grey, soft, low plasticity (clay);
								CLAYS DISPERSING IN HOLE THICKENIN *
								G MUD EXCESSIVELY. HARD ROCK INTER * SECTED AT TOTAL DEPTH, SUSPECT * DOLERITE. NO SAMPLE RETURNED. * DRILL RIG MOVED OFF SITE DUE TO * EXTREMELY WET AND SOFTENING GROUND * CONDITIONS.

END OF BORE AT 53.60 m

EL2080 LAUNCESTON. R0005

038
771106

039

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EL2080 LAUNCESTON. R0006
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Easting: 5410590.000
Northing: 496130.000
Grid Type: Australian Mapping Grid
Accuracy: Approximate
Crl: 160.00
Datum: Approximate Level - Not Surveyed
Sheet Reference:
Sheet Index:
Total Depth: 75.00
Drilling Commenced: 14/10/81
Drilling Completed: 15/10/81
Inclination:
Azimuth:
Standing Water Level: 0.0

Available Data: Gamma Logs
Density Logs
Resistivity Logs
Caliper Logs

Logging Organisation: CSR Exploration and Evaluation Group
Logged By: ELLIS
Drilling Contractor: H.J. Stacpoole
Geophysical Logging: Murdoch Geophysics

County:
Parish:
Portion:

Plug Depths:
Hole Diameter: 120
Core Diameter:
Cased Depths: 3.0
Core Barrel:

Drill Bits: Blades

ALL ROCKS ARE FRESH UNLESS OTHERWISE INDICATED

77110?

STRAT NAME	SEQ NO.	SEAM NAME	WORK SECT	SAMPLE NUMBER	DEPTH (m)	THICK (m)	ROCK TYPE	GEOLOGICAL DESCRIPTION OF STRATA
QA					0.20	0.20	SAND	Clayey, medium to dark brown, weathered, soft, non-plastic.
					1.80	1.60	SAND	Clayey, light brown - orange, weathered, soft, non-plastic; Bands include: CLAY, mottled buff - pink, weathered, firm, high plasticity (clay); Additional features include: khaki.
					2.20	0.40	SAND	Clayey, light brown - orange, weathered, soft, non-plastic.
					3.00	0.80	CLAY	Mottled buff - khaki, weathered, firm, high plasticity (clay); Additional features include: pink - grey.
					5.60	2.60	CLAY	Silty, mottled yellow - buff, firm, high plasticity (clay); Additional features include: grey; Bands include: CLAY, carbonaceous, medium to dark brown, firm, high plasticity (clay).
					6.50	0.90	CLAY	Light to medium brown - buff, firm, high plasticity (clay).
					8.60	2.10	CLAY	Light to medium grey - brown, firm, high plasticity (clay); Bands include: CLAY, light to medium brown, firm, high plasticity (clay); Bands include: CLAY, 00.90 m thick, base at 0007.40m, sandy, gravelly, light to medium yellow, firm, low plasticity (clay); Bands include: CLAY, 00.60 m thick, base at 0008.60m, sandy, gravelly, light to medium yellow, firm, low plasticity (clay).
					10.00	1.40	CLAY	Light to medium grey, firm, high plasticity (clay).
					10.50	0.50	IRONSTONE - UN-DIFFERENTIATED	Gravelly, sandy, light to medium purple - brown, high strength, tough; Bands include: IRONSTONE - UN- DIFFERENTIATED, gravelly, sandy, light to medium purple - brown, low strength, brittle.
					11.00	0.50	CLAY	Light to medium grey, firm, high plasticity (clay).
					11.30	0.30	IRONSTONE - UN-DIFFERENTIATED	Gravelly, sandy, light to medium purple - brown, low strength, brittle.
					12.30	1.00	CLAY	Sandy, gravelly, light to medium yellow, firm, low plasticity (clay); Bands include: CLAY, light to medium grey, firm, high plasticity (clay).

STRAT NAME	SEQ NO.	SEAM NAME	WORK SECT	SAMPLE NUMBER	DEPTH (m)	THICK (m)	ROCK TYPE	GEOLOGICAL DESCRIPTION OF STRATA
					13.00	0.70	SAND	Gravelly, quartzose, light to medium orange - brown, medium dense, non-plastic.
					15.70	2.70	CLAY	Light to medium grey - brown, firm, high plasticity (clay).
					17.00	1.30	INFERIOR LIGNITE	Clayey, medium to dark brown - black, firm, low plasticity (organic).
					17.40	0.40	LIGNEOUS CLAY	Medium to dark brown - black, firm, high plasticity (organic); Bands include: CLAY, carbonaceous, light to medium brown - grey, firm, low plasticity (clay).
					18.80	1.40	INFERIOR LIGNITE	Clayey, medium to dark brown - black, firm, low plasticity (organic); Bands include: INFERIOR LIGNITE, medium to dark brown - black, firm, friable; Bands include: LIGNEOUS CLAY, medium to dark brown, firm, high plasticity (organic).
					19.40	0.60	CLAY	Carbonaceous, light to medium grey - brown, firm, low plasticity (clay).
					20.50	1.10	LIGNEOUS CLAY	Medium to dark brown - black, firm, low plasticity (organic).
					21.00	0.50	LIGNITE	Medium to dark black - brown, firm, friable.
					23.20	2.20	LIGNEOUS CLAY and INFERIOR LIGNITE	Interbedded 60:40. LIGNEOUS CLAY: medium to dark brown - black, firm, low plasticity (organic); INFERIOR LIGNITE: clayey, medium to dark black - brown, firm, friable; THE INTERVAL 15.7 TO 23.2 METRES IS INTERPRETED * FROM THE GEOPHYSICAL LOG. THE LOG SHOWS AN ANOMOLOUS GAMMA VS DENSITY RESPONSE *
					24.70	1.50	LIGNITE	Medium to dark black - brown, firm, friable; Bands include: LIGNEOUS CLAY, medium to dark brown - black, firm, low plasticity (organic).
					25.20	0.50	INFERIOR LIGNITE	Woody textured, medium to dark black - brown, firm, friable.
					25.90	0.70	LIGNITE	Woody textured, medium to dark black - brown, firm, friable.

041
271109

REPORT TC14-01 | THIESS COAL SYSTEM | PAGE 29 | 22/ 6/82 10:06:32

LAUNCESTON. | GEOLOGICAL LOG REPORT | ATP EL2080 LAUNCESTON | TENEMENT 2080

STRAT NAME	SEQ NO.	SEAM NAME	WORK SECT	SAMPLE NUMBER	DEPTH (m)	THICK (m)	ROCK TYPE	GEOLOGICAL DESCRIPTION OF STRATA
					27.00	1.10	INFERIOR LIGNITE	Woody textured, medium to dark black - brown, firm, friable; Bands include: LIGNEOUS CLAY, medium to dark brown - black, firm, low plasticity (organic).
					28.85	1.85	LIGNITE	Woody textured, medium to dark black - brown, firm, friable; Bands include: LIGNEOUS CLAY, medium to dark brown - black, firm, low plasticity (organic).
					29.40	0.55	INFERIOR LIGNITE	Medium to dark black - brown, firm, friable; Bands include: LIGNEOUS CLAY, medium to dark brown - black, firm, low plasticity (organic).
					32.30	2.90	LIGNEOUS CLAY	Medium to dark brown, firm, low plasticity (organic), abundant ligneous wisps; Additional features include: common woody fragments.
					35.30	3.00	CLAY	Carbonaceous.
					36.10	0.80	LIGNEOUS CLAY	
								NO SAMPLE RETURN BETWEEN 33.0 AND 36.0 METRES *
								DUE TO CLAY BALLING * TRIPPED OUT OF HOLE AT 39.0 METRES 14/10/81
					40.30	4.20	CLAY	Silty, light to medium grey, very soft, low plasticity (clay).
					41.50	1.20	CLAY	Light to medium grey, very soft, low plasticity (clay).
					44.00	2.50	CLAY	Silty, carbonaceous, light to medium grey - brown, soft, low plasticity (clay), common ligneous fragments; Additional features include: common woody fragments;
								NO DEPTH CORRECTIONS MADE FROM 44 METRES DUE TO *
								GEOPHYSICAL LOG ENDING AT 44.0 M
					45.60	1.60	CLAY	Silty, light to medium grey, soft, low plasticity (clay).
					46.50	0.90	CLAY	Carbonaceous, light to medium brown - grey, soft, low plasticity (clay), common ligneous fragments; Additional features include: common woody fragments.

78/1110

STRAT NAME	SEQ NO.	SEAM NAME	WORK SECT	SAMPLE NUMBER	DEPTH (m)	THICK (m)	ROCK TYPE	GEOLOGICAL DESCRIPTION OF STRATA
					47.00	0.50	LIGNITE	Woody textured, medium to dark brown, firm, friable, common woody fragments;
								LOST CIRCULATION AT 47.00 METRES DUE TO *
								CLAY BALLING, CAUSTIC SODA ADDED
					51.20	4.20	CLAY	Carbonaceous, medium to dark brown, soft, low plasticity (clay), abundant woody fragments;
								SAMPLE RETURN PREDOMINANTLY WOOD FRAG- *
								MENTS, THIS LITHOL MAY BE A LIGNITE
					52.40	1.20	CLAY and CLAY	Interbedded 50:50. CLAY: carbonaceous, medium to dark brown, soft, low plasticity (clay); CLAY: light white - grey, soft, low plasticity (clay).
					56.00	3.60	INFERIOR LIGNITE	Woody textured, clayey, medium to dark brown - black, soft, friable, abundant woody fragments; Additional features include: silty.
					68.00	12.00	CLAY	Carbonaceous, medium to dark brown, soft, low plasticity (clay), abundant woody fragments;
								CIRCULATION POOR, VERY LITTLE SAMPLE *
								RETURN DUE TO CLAY BALLING
					75.00	7.00	CLAY	Light to medium grey - brown, soft, high plasticity (clay);
								PULLED 6.0M OF RODS TO ATTEMPT TO CLEAR *
								CLAY BALLS AND RETURN CIRCULATION * HOLE TERMINATED DUE TO POOR RETURN * OF CUTTINGS, I.E. NO LITHOTYPE COULD * BE IDENTIFIED

END OF BORE AT 75.00 m

****
EL2080 LAUNCESTON. R0007
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Easting:	5410920.000
Northing:	494140.000
Grid Type:	Australian Mapping Grid
Accuracy:	Approximate
Crl:	146.00
Datum:	Approximate Level - Not Surveyed
Sheet Reference:	
Sheet Index:	
Total Depth:	87.00
Drilling Commenced:	15/10/81
Drilling Completed:	17/10/81
Inclination:	
Azimuth:	
Standing Water Level:	2.7
Available Data:	Gamma Logs Density Logs Resistivity Logs Caliper Logs

Logging Organisation:	CSR Exploration and Evaluation Group
Logged By:	ELLIS
Drilling Contractor:	H.J. Stacpoole
Geophysical Logging:	Murdoch Geophysics
County:	
Parish:	
Portion:	
Plug Depths:	
Hole Diameter:	150
Core Diameter:	
Cased Depths:	
Core Barrel:	
Drill Bits:	Blades

ALL ROCKS ARE FRESH UNLESS OTHERWISE INDICATED

044
7711112

STRAT NAME	SEQ NO.	SEAM NAME	WORK SECT	SAMPLE NUMBER	DEPTH (m)	THICK (m)	ROCK TYPE	GEOLOGICAL DESCRIPTION OF STRATA
GA					0.30	0.30	SAND	Clayey, quartzose, medium to dark brown, weathered, medium dense, non-plastic.
GA					2.00	1.70	CLAY	Sandy, silty, medium to dark yellow - orange, weathered, firm, low plasticity (clay); WITH SOME GRAVEL
GA					2.80	0.80	CLAY	Sandy, gravelly, medium to dark red - orange, weathered, firm, low plasticity (clay).
GA					4.50	1.70	SAND	Gravelly, clayey, medium to dark red - orange, medium dense, non-plastic;
								IRONSTONE AND BASALT TALUS IN SAND *
								AND GRAVEL, COARSE SAND TO FINE GRAVEL
TE					6.20	1.70	CLAY	Mottled grey - pink, firm, high plasticity (clay); Bands include: buff.
TE					7.00	0.80	CLAY	Sandy, light to medium brown - yellow, firm, friable, common ligneous wisps; Bands include: CLAY, light to medium grey - brown, firm, high plasticity (clay), common woody fragments.
TE					8.15	1.15	CLAY	Carbonaceous, light to medium brown - grey, firm, high plasticity (clay), common ligneous wisps; Additional features include: common woody fragments.
TE					9.90	1.75	LIGNITE	Woody textured, peaty, medium to dark black - brown, firm, friable, abundant woody fragments.
TE					11.80	1.90	CLAY	Carbonaceous, light to medium brown - grey, soft, high plasticity (clay), common ligneous wisps; Additional features include: common woody fragments.
TE					12.30	0.50	LIGNEOUS CLAY	Medium to dark brown, firm, low plasticity (organic).
TE					13.30	1.00	CLAY	Carbonaceous, light to medium brown - grey, soft, high plasticity (clay), common woody fragments; Bands include: LIGNEOUS CLAY, medium to dark brown, firm, low plasticity (organic).
					14.20	0.90	LIGNEOUS CLAY	Medium to dark brown, firm, low plasticity (organic).

C50
741113

STRAT NAME	SEQ NO.	SEAM NAME	WORK SECT	SAMPLE NUMBER	DEPTH (m)	THICK (m)	ROCK TYPE	GEOLOGICAL DESCRIPTION OF STRATA
TE					14.80	0.60	CLAY	Carbonaceous, light to medium brown - grey, soft, high plasticity (clay).
TE					17.00	2.20	INFERIOR LIGNITE	Dark black - brown, firm, friable; Bands include: LIGNEOUS CLAY, medium to dark brown, firm, low plasticity (organic); Bands include: CLAY, carbonaceous, light to medium brown - grey, soft, high plasticity (clay).
TE					17.50	0.50	LIGNEOUS CLAY	Medium to dark brown - grey, soft, high plasticity (organic); Bands include: INFERIOR LIGNITE, medium to dark black - brown, firm, friable.
TE					19.30	1.80	CLAY	Carbonaceous, medium to dark brown - grey, soft, high plasticity (clay).
TE					23.70	4.40	LIGNEOUS CLAY	Medium to dark brown, firm, high plasticity (organic), common ligneous wisps; Bands include: CLAY, carbonaceous, medium to dark brown - grey, soft, high plasticity (clay), common woody fragments; Bands include: INFERIOR LIGNITE, medium to dark brown, firm, friable.
TE					33.50	9.80	CLAY	Carbonaceous, medium to dark brown, soft, high plasticity (clay), common ligneous wisps; Additional features include: common woody fragments.
TE					40.00	6.50	CLAY	Light brown, soft, high plasticity (clay).
TE					46.20	6.20	CLAY	Sandy, quartzose, light grey - white, soft, low plasticity (clay); Bands include: SIDERITE, 00.10 m thick, base at 0044.20m, light brown, high strength, tough; Bands include: SIDERITE, 00.20 m thick, base at 0044.70m, light brown, low strength, brittle; BIT BLOCKED AT 45.0 METRES, CLAYS ARE * DISPERSIVE CAUSING CIRCULATING FLUID * TO BECOME EXCESSIVELY THICK. MUD PIT * EMPTIED ADD WATER, SALT, CAUSTIC SODA
TE					47.60	1.40	LIGNEOUS CLAY	Medium to dark brown, soft, high plasticity (organic); Bands include: LIGNITE, dark brown - black, firm, friable; Bands include: SIDERITE, 00.30 m thick, base at 0046.60m, light brown, low strength, brittle.

970
771114

STRAT NAME	SEQ NO.	SEAM NAME	WORK SECT	SAMPLE NUMBER	DEPTH (m)	THICK (m)	ROCK TYPE	GEOLOGICAL DESCRIPTION OF STRATA
TE					49.90	2.30	INFERIOR LIGNITE	Woody textured, medium to dark brown - black, firm, friable, subfissile; Bands include: LIGNITE, woody textured, medium to dark brown - black, firm, friable.
TE					50.60	0.70	CLAY	Carbonaceous, silty, light grey - white, soft, low plasticity (clay).
TE					52.55	1.95	INFERIOR LIGNITE	Clayey, woody textured, medium to dark black - brown, firm, friable; Bands include: LIGNEOUS CLAY, medium to dark brown, soft, low plasticity (organic).
TE					65.40	12.85	CLAY	Light white - grey, soft, low plasticity (clay).
TE					67.20	1.80	INFERIOR LIGNITE	Medium to dark black - brown, firm, friable; Bands include: LIGNITE, medium to dark black - brown, firm, friable; Bands include: LIGNEOUS CLAY, medium to dark brown, soft, low plasticity (organic); TRIPPED OUT OF HOLE AT 66.0 METRES 16/10/81
TE					68.50	1.30	CLAY	Carbonaceous, light to medium brown, soft, low plasticity (clay).
TE					70.30	1.80	LIGNEOUS CLAY	Medium to dark brown, firm, low plasticity (organic).
TE					71.15	0.85	CLAY	Carbonaceous, light to medium brown, soft, low plasticity (clay).
TE					73.70	0.45	INFERIOR LIGNITE	Clayey, medium to dark black - brown, firm, friable; Bands include: CLAY, carbonaceous, light to medium brown, soft, low plasticity (clay); Bands include: LIGNEOUS CLAY, medium to dark brown, firm, low plasticity (organic).
TE					74.20	0.50	CLAY	Carbonaceous, light to medium brown, soft, low plasticity (clay).
TE					75.00	0.80	LIGNEOUS CLAY	Medium to dark brown, soft, low plasticity (organic).
TE					75.90	0.90	CLAY	Carbonaceous, medium to dark brown - grey, soft, high plasticity (clay).

347
271115

STRAT NAME	SEQ NO.	SEAM NAME	WORK SECT	SAMPLE NUMBER	DEPTH (m)	THICK (m)	ROCK TYPE	GEOLOGICAL DESCRIPTION OF STRATA
TE					77.40	1.50	LIGNEOUS CLAY	Medium to dark brown, soft, low plasticity (organic).
TE					78.90	1.50	LIGNEOUS CLAY	Medium to dark brown, soft, low plasticity (organic); Bands include: CLAY, carbonaceous, light to medium brown - grey, soft, high plasticity (clay), common woody fragments; Bands include: INFERIOR LIGNITE, clayey, medium to dark brown, soft, low plasticity (organic).
TE					81.00	2.10	INFERIOR LIGNITE	Clayey, woody textured, medium to dark black - brown, firm, friable, common woody fragments; Additional features include: peaty.
TE					87.00	6.00	CLAY	Carbonaceous, medium to dark brown - grey, soft, high plasticity (clay); Bands include: CLAY, carbonaceous, medium to dark brown - grey, firm, high plasticity (clay).

END OF BORE AT 87.00 m

EL2080 LAUNCESTON. R0007

049

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EL2080 LAUNCESTON. R0008
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Easting:	495950.000	Logging Organisation:	CSR Exploration and Evaluation Group
Northing:	5408890.000	Logged By:	ELLIS
Grid Type:	Australian Mapping Grid	Drilling Contractor:	H.J. Stacpoole
Accuracy:	Approximate	Geophysical Logging:	Murdoch Geophysics
Crl:	170.00		
Datum:	Approximate Level - Not Surveyed		
Sheet Reference:		County:	
Sheet Index:		Parish:	
Total Depth:	95.00	Portion:	
Drilling Commenced:	18/10/81		
Drilling Completed:	21/10/81		
Inclination:		Plug Depths:	
Azimuth:		Hole Diameter:	150
Standing Water Level:	2.7	Core Diameter:	
		Cased Depths:	
		Core Barrel:	
Available Data:	Gamma Logs Density Logs Resistivity Logs Caliper Logs	Drill Bits:	Blades

ALL ROCKS ARE FRESH UNLESS OTHERWISE INDICATED

771111

STRAT NAME	SEQ NO.	SEAM NAME	WORK SECT	SAMPLE NUMBER	DEPTH (m)	THICK (m)	ROCK TYPE	GEOLOGICAL DESCRIPTION OF STRATA
					0.50	0.50	SAND	Silty, clayey, medium to dark brown, weathered, medium dense, non-plastic.
					1.50	1.00	CLAY	Light to medium brown - khaki, firm, high plasticity (clay).
					4.60	3.10	CLAY	Silty, mottled white - yellow, firm, low plasticity (clay), fining upwards;
								WITH SOME FINE SAND
					6.00	1.40	CLAY	Silty, light white - grey, firm, low plasticity (clay);
								WITH SOME FINE SAND IB50 $
								CLAY: silty, sandy, light to medium yellow, firm, low plasticity (clay), very fine grained; Bands include: SAND, silty, clayey, light to medium yellow, medium dense, non-plastic, very fine grained.
					8.00	2.00	GRAVEL	Sandy, clayey, light to medium brown, medium dense, non-plastic, fining upwards, rare ligneous fragments;
								FINE GRAVEL TO COARSE SAND, ANGULAR *
								CLASTS
					9.20	1.20	CLAY	Light to medium yellow - buff, firm, low plasticity (clay).
					9.70	0.50	CLAY	Gravelly, light to medium yellow - buff, firm, low plasticity (clay);
								CLAY AFTER DOLERITE, COARSE ANGULAR *
								DOLERITE GRAVEL CLASTS
					11.15	1.45	CLAY	Medium to dark brown - grey, firm, high plasticity (clay);
								GRADES TO LIGHT BROWN-GREY AT BASE
					11.70	0.55	CLAY	Light to medium brown, firm, high plasticity (clay).

050
77118

STRAT NAME	SEQ NO.	SEAM NAME	WORK SECT	SAMPLE NUMBER	DEPTH (m)	THICK (m)	ROCK TYPE	GEOLOGICAL DESCRIPTION OF STRATA
					15.50	3.80	CLAY	Carbonaceous, light to medium brown, firm, high plasticity (clay), common woody fragments; Additional features include: common ligneous fragments; Bands include: SIDERITE, 00.20 m thick, base at 0014.10m, light to medium brown, low strength, brittle.
					16.80	1.30	LIGNEOUS CLAY	Woody textured, firm.
					17.10	0.30	CLAY	Carbonaceous, medium to dark brown, firm, high plasticity (clay), common ligneous fragments; Additional features include: common woody fragments.
					17.80	0.70	LIGNEOUS CLAY	Woody textured, medium to dark brown, firm.
					19.60	1.80	CLAY and CLAY	Interbedded 50:50. CLAY: carbonaceous, medium to dark brown, firm, high plasticity (clay), common ligneous fragments; CLAY: carbonaceous, light to medium brown - grey, firm, high plasticity (clay), common ligneous fragments.
					21.20	1.60	CLAY	Carbonaceous, light to medium brown - grey, firm, high plasticity (clay), common woody fragments; Bands include: CLAY, carbonaceous, medium to dark brown, firm, high plasticity (clay), common woody fragments; Bands include: CLAY, light grey - brown, firm, high plasticity (clay), common woody fragments.
					21.70	0.50	INFERIOR LIGNITE	Clayey, peaty, medium to dark black - brown, low strength, brittle; Additional features include: woody textured.
					22.90	1.20	LIGNEOUS CLAY	Medium to dark brown, firm; Bands include: CLAY, carbonaceous, light to medium brown, firm, high plasticity (clay).
					23.60	0.70	CLAY	Bentonitic, light to medium grey, firm, high plasticity (clay).
					24.50	0.90	CLAY	Carbonaceous, woody textured, light to medium brown, firm, high plasticity (clay), abundant woody fragments; LOST CIRCULATION DUE TO CLAY BALLING * BETWEEN 22.5 TO 24 METRES

EL2080 LAUNCESTON. R0008

053
7711119

STRAT NAME	SEQ NO.	SEAM NAME	WORK SECT	SAMPLE NUMBER	DEPTH (m)	THICK (m)	ROCK TYPE	GEOLOGICAL DESCRIPTION OF STRATA
					29.10	4.60	CLAY	Bentonitic, light to medium grey, firm, high plasticity (clay); Bands include: SIDERITE, 00.30 m thick, base at 0027.40m, light to medium brown, high strength, brittle.
					30.20	1.10	CLAY	Silty, bentonitic, light to medium grey, soft, low plasticity (clay);
								EMPTIED MUD PIT AT 31 METRES, ADDED *
								SALT TO FLOCCULATE CLAYS
					34.45	4.25	CLAY	Silty, bentonitic, light to medium grey, soft, low plasticity (clay), fining upwards; Bands include: CLAY, light to medium brown - grey, firm, low plasticity (clay).
					36.40	1.95	CLAY and CLAY	Interbedded 60:40. CLAY: silty, bentonitic, light to medium grey, soft, low plasticity (clay); CLAY: light to medium brown - grey, soft, low plasticity (clay);
								EMPTIED MUD PIT AT 35 METRES
					36.60	0.20	CLAY	Medium to dark khaki - brown, firm, high plasticity (clay); Bands include: CLAY, silty, bentonitic, light to medium grey, soft, low plasticity (clay).
					39.30	2.70	SAND	Clayey, woody textured, medium to dark black - brown, medium dense, non-plastic, fibrous; Additional features include: peaty.
					41.00	1.70	CLAY	Carbonaceous, medium to dark brown, soft, low plasticity (clay), coarsening upwards, abundant woody fragments.
					41.80	0.80	CLAY	Carbonaceous, medium to dark brown, soft, low plasticity (clay), abundant woody fragments.
					42.80	1.00	SILT	Clayey, carbonaceous, medium to dark brown, soft.
					43.80	1.00	SILT	Clayey, carbonaceous, medium to dark brown, soft, coarsening upwards.
					45.80	2.00	CLAY	Carbonaceous, light to medium brown, soft, high plasticity (clay), coarsening upwards, abundant woody fragments.

EL2080 LAUNCESTON. R0008

054
7711120

STRAT NAME	SEQ NO.	SEAM NAME	WORK SECT	SAMPLE NUMBER	DEPTH (m)	THICK (m)	ROCK TYPE	GEOLOGICAL DESCRIPTION OF STRATA
					47.40	1.60	SAND	Silty, clayey, soft.
					51.50	4.10	CLAY	Bentonitic, light to medium grey - brown, very soft, low plasticity (clay), fining upwards, occasional woody fragments;
								CHANGED MUD AT 48 METRES
					56.50	5.00	CLAY	Bentonitic, light to medium grey - white, soft, low plasticity (clay).
					57.10	0.60	SIDERITE	Light brown - cream, high strength, tough.
					59.20	2.10	CLAY	Carbonaceous, medium to dark brown, very soft, low plasticity (clay), common woody fragments; Bands include: CLAY, light to medium brown - grey, very soft, low plasticity (clay), common woody fragments.
					60.40	1.20	SAND	Silty, clayey, dark black - brown, soft, non-plastic, abundant woody fragments; Additional features include: woody textured, peaty.
					61.30	0.90	SAND	Clayey, woody textured, medium to dark black - brown, soft, non-plastic, common woody fragments.
					62.30	1.00	SAND	Silty, clayey, dark black - brown, soft, non-plastic, abundant woody fragments; Additional features include: woody textured, peaty.
					63.30	1.00	SAND	Clayey, woody textured, medium to dark black - brown, soft, non-plastic, common woody fragments;
								CHANGED MUD AT 63 METRES
					64.80	1.50	SAND	Silty, clayey, dark black - brown, soft, non-plastic, fibrous, abundant woody fragments; Additional features include: woody textured, peaty.
					68.40	3.60	SAND	Clayey, woody textured, medium to dark black - brown, soft, non-plastic, common woody fragments.
					70.80	2.40	SAND	Silty, clayey, medium to dark black - brown, soft, non-plastic, fibrous, abundant woody fragments; Additional features include: woody textured, peaty.

053
7711121

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EL2080 LAUNCESTON. R0009
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Eastins: 497360.000
Northins: 5409490.000
Grid Type: Australian Morrins Grid
Accuracy: Approximate
Crl: 160.00
Datum: Approximate Level - Not Surveyed
Sheet Reference:
Sheet Index:
Total Depth: 75.00
Drillins Commenced: 21/10/81
Drillins Completed: 22/10/81
Inclination:
Azimuth:
Standins Water Level: 1.1

Available Data: Gamma Loss
Density Loss
Resistivity Loss
Caliper Loss

Loggins Organisation: CSR Exploration and Evaluation Group
Logged By: ELLIS
Drilling Contractor: H.J. Stacpoole
Geophysical Loggins: Murdoch Geophysics

County:
Parish:
Portion:

Plus Depths:
Hole Diameter: 150
Core Diameter:
Cased Depths:
Core Barrel:

Drill Bits: Blades

ALL ROCKS ARE FRESH UNLESS OTHERWISE INDICATED

EL2080 LAUNCESTON. R0009

956
77 11 22

STRAT NAME	SEQ NO.	SEAM NAME	WORK SECT	SAMPLE NUMBER	DEPTH (m)	THICK (m)	ROCK TYPE	GEOLOGICAL DESCRIPTION OF STRATA
					0.20	0.20	SAND	Silty; clayey; medium to dark grey - brown; medium dense; non-plastic.
					2.90	2.70	CLAY	Sandy; medium to dark yellow - brown; firm; high plasticity (clay); gradational base.
					4.20	1.30	CLAY	Mottled grey - yellow; firm; high plasticity (clay);
								PREDOMINANTLY GREY IN COLOR; APPROX *
								10-15% YELLOW COLORATION
					4.70	0.50	CLAY	Mottled brown - grey; firm; high plasticity (clay);
								LIGHT TO MID COLORATION
					5.50	0.80	CLAY	Medium to dark brown; firm; high plasticity (clay).
					6.50	1.00	CLAY	Mottled brown - grey; firm; high plasticity (clay); Bands include: CLAY; dark brown; firm; high plasticity (clay).
					7.30	0.80	CLAY	Dark brown; firm; high plasticity (clay).
					7.50	0.20	CLAY	Mottled brown - grey; firm; high plasticity (clay); Bands include: CLAY; dark brown; firm; high plasticity (clay).
					7.90	0.10	INFERIOR LIGNITE	Clayey; medium to dark brown; firm; friable.
					8.60	0.70	LIGNEOUS CLAY	Dark brown; stiff; high plasticity (organic).
					9.15	0.55	INFERIOR LIGNITE	Clayey; medium to dark brown; firm; friable.
					9.45	0.30	CLAY	Medium to dark brown; stiff; high plasticity (clay).
					9.90	0.45	INFERIOR LIGNITE	Medium to dark brown - black; firm; friable.
					10.45	0.55	LIGNEOUS CLAY	Medium to dark brown; firm; high plasticity (organic).
					10.85	0.40	INFERIOR LIGNITE	Medium to dark brown - black; firm; friable.
					11.70	0.85	LIGNEOUS CLAY	Medium to dark brown; firm; high plasticity (organic).

057
771123

STRAT NAME	SEQ NO.	SEAM NAME	WORK SECT	SAMPLE NUMBER	DEPTH (m)	THICK (m)	ROCK TYPE	GEOLOGICAL DESCRIPTION OF STRATA
					12.30	0.60	INFERIOR LIGNITE	Clayey; medium to dark brown; firm; friable;
								LIGNITES IN THE INTERVAL 7.5 TO 12.3 *
								METRES ARE PROBABLY IN FACT LOGS * OF WOOD IN CLAY DUE TO RIG RATTLI- * NG A THOUGH BLACK COAL INTERSECTED * NOTE ANOMOLOUS DENSITY VS GAMMA
					14.30	2.00	CLAY	Medium to dark brown; firm; high plasticity (clay).
					16.50	2.20	CLAY	Carbonaceous; medium to dark brown; firm; high plasticity (clay); abundant woody fragments; Additional features include: common lignoous wisps.
					18.25	1.75	CLAY	Silty; light to medium grey; soft; low plasticity (clay); common woody fragments;
								WITH SOME FINE SAND
					18.90	0.65	INFERIOR LIGNITE	Medium to dark brown; firm; friable.
					19.35	0.45	LIGNITE	Peaty; woody textured; dark black - brown; firm; friable; fibrous;
								APPEARS TO BE A LOW RANK PEATY *
								BROWN COAL
					20.20	0.85	INFERIOR LIGNITE	Medium to dark brown; firm; friable.
					21.80	1.60	LIGNEOUS CLAY	Sandy; silty; medium to dark brown; firm; low plasticity (organic).
					23.00	1.20	INFERIOR LIGNITE	Clayey; medium to dark brown; firm; friable; Bands include: LIGNEOUS CLAY; medium to dark brown; firm; low plasticity (organic); Bands include: CLAY; carbonaceous; medium to dark brown - grey; firm; high plasticity (clay).
					23.80	0.80	LIGNEOUS CLAY	Medium to dark brown; firm; high plasticity (organic).
					24.30	0.50	LIGNITE	Peaty; woody textured; medium to dark brown - black; firm; friable; fibrous.

058 771124

LAUNCESTON. GEOLOGICAL LOG REPORT ATP EL2080 LAUNCESTON TENEMENT 2080

STRAT NAME	SEQ NO.	SEAM NAME	WORK SECT	SAMPLE NUMBER	DEPTH (m)	THICK (m)	ROCK TYPE	GEOLOGICAL DESCRIPTION OF STRATA
					24.50	0.20	INFERIOR LIGNITE	Peaty; woody textured; medium to dark brown - black; firm; friable.
					25.00	0.50	LIGNITE	Peaty; woody textured; medium to dark brown - black; firm; friable; Bands include: LIGNITE; humified; medium to dark black - brown; firm; high plasticity (clay).
					25.60	0.60	LIGNEOUS CLAY	Medium to dark brown; firm; high plasticity (organic).
					26.25	0.65	LIGNITE	Peaty; woody textured; medium to dark black - brown; firm; friable; fibrous.
					27.00	0.75	CLAY	Carbonaceous; light to medium brown; firm; high plasticity (clay); common woody fragments; Bands include: LIGNITE; peaty; woody textured; medium to dark brown - black; firm; friable.
					27.40	0.40	INFERIOR LIGNITE	Clayey; peaty; medium to dark brown - black; firm; friable; fibrous; Additional features include: woody textured; Bands include: CLAY; carbonaceous; medium to dark brown - grey; firm; high plasticity (clay); common woody fragments.
					27.80	0.40	LIGNEOUS CLAY	Medium to dark brown; firm; low plasticity (organic); common woody fragments.
					28.35	0.55	INFERIOR LIGNITE	Clayey; peaty; medium to dark brown - black; firm; friable; fibrous.
					30.50	2.15	CLAY	Light to medium brown; firm; high plasticity (clay).
					31.80	1.30	CLAY	Carbonaceous; light to medium brown; firm; high plasticity (clay); gradational base; common woody fragments; BECOMING AGYBR TOWARDS BASE OF UNIT
					32.50	0.70	CLAY	Mottled cream - yellow; firm; high plasticity (clay).
					34.50	2.00	CLAY	Carbonaceous; light to medium brown; soft; high plasticity (clay); Bands include: LIGNEOUS CLAY; medium to dark brown; firm; low plasticity (organic).

059
7711125

REPORT TC14-01 THIESS COAL SYSTEM PAGE 4 11/ 6/82 16:25:09

STRAT NAME	SEQ NO.	SEAM NAME	WORK SECT	SAMPLE NUMBER	DEPTH (m)	THICK (m)	ROCK TYPE	GEOLOGICAL DESCRIPTION OF STRATA
					36.00	1.50	CLAY and CLAY	Interbedded 80:20. CLAY: mottled cream - yellow; firm; high plasticity (clay), common woody fragments; CLAY: carbonaceous; light to medium brown - grey; soft; high plasticity (clay).
					36.30	0.30	CLAY	Carbonaceous; light to medium brown - grey; soft; high plasticity (clay).
					36.90	0.60	SIDERITE	Light to medium brown; low strength; brittle.
					39.40	2.50	SAND	Quartzose; clayey; light to medium brown - grey; medium dense; non-plastic; medium grained; gradational base.
					42.70	3.30	CLAY	Sandy; quartzose; light to medium grey; soft; low plasticity (clay).
					46.70	4.00	CLAY	Silty; mottled cream - yellow; soft; low plasticity (clay); Bands include: GRAVEL, 00.20 m thick, base at 0045.90m, light to medium grey; medium dense; non-plastic; Bands include: GRAVEL, 00.10 m thick, base at 0046.10m, light to medium grey; medium dense; non-plastic; Bands include: SAND, quartzose; light to medium grey; medium dense; non-plastic; medium grained.
					50.00	3.30	CLAY and CLAY	Interbedded 60:40. CLAY: silty; light to medium grey; soft, low plasticity (clay); gradational base; CLAY: mottled cream - yellow; firm; high plasticity (clay).
					50.70	0.70	INFERIOR LIGNITE	Sandy; clayey; medium to dark brown - black; firm; friable, fibrous.
					51.30	0.60	CLAY	Carbonaceous; silty; light to medium brown; soft; low plasticity (clay).
					52.20	0.90	INFERIOR LIGNITE	Sandy; clayey; medium to dark brown - black; firm; friable, fibrous; Additional features include: woody textured; peaty.
					52.80	0.60	CLAY	Carbonaceous; silty; light to medium brown; soft; low plasticity (clay).
					53.80	1.00	INFERIOR LIGNITE	Woody textured; peaty; medium to dark brown - black; firm; friable, fibrous; Additional features include: sandy.

060
771126

STRAT NAME	SEQ NO.	SEAM NAME	WORK SECT	SAMPLE NUMBER	DEPTH (m)	THICK (m)	ROCK TYPE	GEOLOGICAL DESCRIPTION OF STRATA
					54.40	0.60	CLAY	Carbonaceous, silty, light to medium brown, soft, low plasticity (clay).
					55.00	0.60	INFERIOR LIGNITE	Sandy, woody textured, medium to dark brown - black, firm, friable, fibrous; Additional features include: peaty.
					55.80	0.80	CLAY	Carbonaceous, medium to dark brown, soft, low plasticity (clay).
					56.60	0.80	INFERIOR LIGNITE	Sandy, woody textured, medium to dark brown - black, firm, friable; Additional features include: peaty.
					56.80	0.20	CLAY	Silty, carbonaceous, light to medium brown, soft, low plasticity (clay).
					57.30	0.50	INFERIOR LIGNITE	Clayey, woody textured, medium to dark brown - black, firm, friable; Additional features include: sandy, peaty;
								THE INTERVAL 50.0 TO 57.3 METRES IS *
								INTERPRETED FROM GEOPHYSICAL LOGS * INTERVAL WAS LOGGED AS WOODY, PEATY * SANDS, WITH CARBONACEOUS CLAY * INTERBANDS
					58.60	1.30	CLAY	Carbonaceous, silty, light to medium brown, soft, low plasticity (clay).
					59.50	0.90	CLAY	Mottled cream - yellow, firm, high plasticity (clay);
								CHANGED MUD AT 60.0 METRES
					61.00	1.50	CLAY	Carbonaceous, silty, light to medium brown, soft, low plasticity (clay).
					62.50	1.50	SAND	Ligneous, woody textured, medium to dark black - brown, medium dense, non-plastic, fine and medium grained, abundant woody fragments; Additional features include: peaty;
								MAY BE AN INFERIOR LIGNITE

EL2080 LAUNCESTON. R0009

061

771127

STRAT NAME	SEQ NO.	SEAM NAME	WORK SECT	SAMPLE NUMBER	DEPTH (m)	THICK (m)	ROCK TYPE	GEOLOGICAL DESCRIPTION OF STRATA
					64.50	2.00	SAND	Gravelly; light to medium grey; medium dense; non-plastic; medium and coarse grained.
					65.50	1.00	CLAY	Mottled yellow - cream; firm; low plasticity (clay).
					69.00	3.50	SILT	Sandy; light to medium grey; medium dense; non-plastic; fine grained; Bands include: SILT; sandy; lignecous; medium to dark black - brown; medium dense; non-plastic; common woody fragments; Additional features include: woody textured; rooty.
					70.50	1.50	CLAY	Light white - grey; soft; high plasticity (clay).
					70.60	0.10	NO RECORD	High strength; tough; ASSUMED TO BE SIDERITE
					75.00	4.40	CLAY	Light white - grey; soft; high plasticity (clay).

END OF BORE AT 75.00 m

EL2080 LAUNCESTON. R0009

092

771128

063

****
EL2080 LAUNCESTON. R0010
****

Eastins: 494920.000
Northins: 5412260.000
Grid Type: Australian Mapping Grid
Accuracy: Approximate
Crl: 150.00
Datum: Approximate Level - Not Surveyed
Sheet Reference:
Sheet Index:
Total Depth: 58.35
Drilling Commenced: 22/10/81
Drilling Completed: 22/10/81
Inclination:
Azimuth:
Standing Water Level:

Available Data: Gamma Logs

Logging Organisation: CSR Exploration and Evaluation Group
Logged By: ELLIS
Drilling Contractor: H.J. Steeneie
Geophysical Logging: Murdoch Geophysics

County:
Parish:
Portion:

Plug Depths:
Hole Diameter:
Core Diameter:
Cased Depths:
Core Barrel:

Drill Bits:

ALL ROCKS ARE FRESH UNLESS OTHERWISE INDICATED

271129

LAUNCESTON. GEOLOGICAL LOG REPORT ATP EL2080 LAUNCESTON TENEMENT 2080

STRAT NAME	SEQ NO.	SEAM NAME	WORK SECT	SAMPLE NUMBER	DEPTH (m)	THICK (m)	ROCK TYPE	GEOLOGICAL DESCRIPTION OF STRATA
					1.50	1.50	CLAY	Silty; stevelly; medium to dark red - brown; weathered; firm; low plasticity (clay); abundant woody fragments; WITH SOME BUCKSHOT/PISOLITIC GRAVEL * HUMIC TYPE CLAY, WITH FIBROUS ELASTIC * WOOD FRAGMENTS
					2.20	0.70	CLAY	Silty; medium to dark grey - green; firm; low plasticity (clay); common woody fragments.
					2.80	0.60	CLAY	Silty; sandy; mottled green - yellow; firm; low plasticity (clay); Additional features include: grey; WITH SOME GRAVEL
					3.60	0.80	LIGNITE	Woody textured; humified; medium to dark black - brown; firm; friable.
					4.00	0.40	CLAY	Silty; sandy; mottled grey - yellow; firm; low plasticity (clay).
					6.20	2.20	CLAY	Silty; sandy; light to medium grey - brown; firm; high plasticity (clay); abundant woody fragments.
					7.50	1.30	CLAY	Light to medium grey - brown; firm; high plasticity (clay).
					8.50	1.00	CLAY	Silty; sandy; light to medium grey - brown; firm; high plasticity (clay); abundant woody fragments.
					9.30	0.80	LIGNITE	Woody textured; humified; medium to dark black - brown; firm; friable.
					10.30	1.00	CLAY	Silty; sandy; light to medium grey - brown; firm; high plasticity (clay); abundant woody fragments.
					11.00	0.70	LIGNITE	Woody textured; humified; medium to dark black - brown; firm; friable.
					12.50	1.50	CLAY	Silty; sandy; light to medium grey - brown; firm; high plasticity (clay); abundant woody fragments.
					13.30	0.80	LIGNITE	Woody textured; humified; medium to dark black - brown; firm; friable.

EL2080 LAUNCESTON. R0010

064 771130

STRAT NAME	SEQ NO.	SEAM NAME	WORK SECT	SAMPLE NUMBER	DEPTH (m)	THICK (m)	ROCK TYPE	GEOLOGICAL DESCRIPTION OF STRATA
					14.20	0.90	CLAY	Sandy; light to medium grey - brown; firm; high plasticity (clay); abundant woody fragments.
					15.50	1.30	SAND	Clayey; light to medium grey - brown; medium dense; non-plastic; abundant woody fragments.
					16.20	0.70	LIGNITE	Woody textured; resty; medium to dark black - brown; firm; friable.
					16.50	0.30	CLAY	Carbonaceous; medium to dark grey - brown; soft; high plasticity (clay); abundant woody fragments.
					17.30	0.80	LIGNITE	Woody textured; resty; medium to dark black - brown; firm; friable.
					20.50	3.20	SAND	Quartzose; clayey; light to medium grey; medium dense; non-plastic; common woody fragments.
					21.20	0.70	INFERIOR LIGNITE	Woody textured; resty; medium to dark black - brown.
					23.70	2.50	SAND	Quartzose; clayey; light to medium grey; medium dense; non-plastic; common woody fragments.
					27.70	4.00	CLAY	Silty; sandy; light to medium grey - brown; soft; low plasticity (clay); common woody fragments; Bands include: SIDERITE; 00.10 m thick; base at 0026.90m; low strength; brittle.
					28.00	0.30	SAND	Gravelly; light to medium grey - white; medium dense; non-plastic.
					33.80	5.80	SAND	Clayey; quartzose; light grey - white; very soft; non-plastic; fine grained; uniform; well sorted; rounded; equant; Bands include: SAND; 00.20 m thick; base at 0032.10m; quartzose; light to medium orange - red; high strength; tough; iron oxide; secondary; cement; Bands include: SAND; silty; quartzose; light white - grey; firm; friable; clay; accessory; cement; Additional features include: kaolinitic.

065
7711131

STRAT NAME	SEQ NO.	SEAM NAME	WORK SECT	SAMPLE NUMBER	DEPTH (m)	THICK (m)	ROCK TYPE	GEOLOGICAL DESCRIPTION OF STRATA
					34.10	0.30	SAND	Clayey; quartzose; light white - grey; low strength; brittle; clay; accessory; cement; Additional features include: kaolinitic;
								CHANGED MUD AT 34 METRES
					36.50	2.40	SAND	Clayey; quartzose; light white - grey; very soft; non-plastic; Bands include: SAND; 00.05 m thick; base at 0035.55m; clayey; quartzose; light white - grey; low strength; brittle; clay; accessory; cement; Bands include: SAND; 00.10 m thick; base at 0035.90m; clayey; quartzose; light white - grey; low strength; brittle; clay; accessory; cement.
					37.00	0.50	CLAY	Silty; sandy; light to medium grey - brown; very soft; low plasticity (clay).
					40.00	3.00	SAND and CLAY	Interbedded 50:50. SAND: clayey; quartzose; light white - grey; very soft; non-plastic; CLAY: silty; sandy; light to medium grey - brown; very soft; low plasticity (clay).
					41.00	1.00	CLAY	Carbonaceous; light to medium brown - grey; soft; high plasticity (clay); common woody fragments.
					41.80	0.80	SAND	Quartzose; clayey; light to medium grey - brown; medium dense; non-plastic; occasional woody fragments.
					43.40	1.60	CLAY	Carbonaceous; light to medium brown - grey; soft; high plasticity (clay); common woody fragments;
								CHANGED MUD AT 42 METRES
					44.80	1.40	SAND	Quartzose; clayey; light white - grey; medium dense; non-plastic; fine and medium grained; coarsening upwards; occasional woody fragments; Additional features include: silty.
					47.00	2.20	SAND	Silty; clayey; light white - grey; medium dense; non-plastic; fine and medium grained; coarsening upwards; Additional features include: quartzose.

066
7711132

LAUNCESTON. GEOLOGICAL LOG REPORT ATP EL2080 LAUNCESTON TENEMENT 2080

STRAT NAME	SEQ NO.	SEAM NAME	WORK SECT	SAMPLE NUMBER	DEPTH (m)	THICK (m)	ROCK TYPE	GEOLOGICAL DESCRIPTION OF STRATA
					52.00	5.00	SAND	Silty; clayey; light white - grey; medium dense; non-plastic; fine and medium grained; coarsening upwards; Additional features include: quartzose.
					55.60	3.60	SAND	Silty; clayey; light white - grey; medium dense; non-plastic; fine and medium grained; Additional features include: quartzose.
					57.00	1.40	CLAY	Silty; sandy; light to medium grey - white; very soft; high plasticity (clay); fine and medium grained.
					58.30	1.30	CLAY	Sandy; mottled white - grey; firm; high plasticity (clay); Additional features include: blue;
								CLAY AFTER DOLERITE
					58.35	0.05	DOLERITE	Light to medium green - grey; high strength; tough; Additional features include: blue;
								LIGNITE INTERSECTIONS CAUSED RATTLING *
								SOUND SIMILAR TO BLACK COAL-SUSPECT * PREDOMINANT LIGNEOUS LITHOTYPE IS LOGS * AND BRANCHES IN CLAY AND OR SAND * LATERAL FACIES EQUIVALENTS OF MAIN * LIGHITE SEAMS

END OF BORE AT 58.35 m

EL2080 LAUNCESTON. R0010

097

2741133

068

****
EL2080 LAUNCESTON. R0011
****

Easting: 491650.000
Northing: 5407490.000
Grid Type: Australian Mapping Grid
Accuracy: Approximate
Crl: 170.00
Datum: Approximate Level - Not Surveyed
Sheet Reference:
Sheet Index:
Total Depth: 28.80
Drilling Commenced: 23/10/81
Drilling Completed: 27/10/81
Inclination:
Azimuth:
Standing Water Level: 3.4

Available Data: Gamma Logs
Density Logs
Resistivity Logs
Caliper Logs

Logging Organisation: CSR Exploration and Evaluation Group
Logged By: ELLIS
Drilling Contractor: H.J. Stacpoole
Geophysical Logging: Murdoch Geophysics

County:
Parish:
Portion:

Plug Depths:
Hole Diameter: 150
Core Diameter:
Cased Depths:
Core Barrel:

Drill Bits: Bladed
Rollers
Percussion

ALL ROCKS ARE FRESH UNLESS OTHERWISE INDICATED

771134

STRAT NAME	SEQ NO.	SEAM NAME	WORK SECT	SAMPLE NUMBER	DEPTH (m)	THICK (m)	ROCK TYPE	GEOLOGICAL DESCRIPTION OF STRATA
					0.20	0.20	SILT	Sandy; medium to dark brown; weathered; firm; low plasticity (silt).
					1.30	1.10	CLAY	Medium to dark brown; weathered; firm; high plasticity (clay).
					4.50	3.20	GRAVEL	Silty; clayey; medium to dark brown - yellow; weathered; medium dense; non-plastic;
								BASALT FRAGMENTS COMPRISE GRAVEL
					8.30	3.80	GRAVEL	Clayey; medium to dark brown; weathered; low strength; brittle.
					10.00	1.70	BASALT	Medium to dark brown; weathered; low strength; brittle.
					11.50	1.50	BASALT	Medium to dark brown; weathered; high strength; tough; Bands include; BASALT; medium to dark brown; fresh; high strength; tough.
					12.00	0.50	BASALT	Medium to dark brown; weathered; extremely high strength; tough;
								CHANGE TO ROLLER BIT AT 12 METRES
					20.00	8.00	BASALT	Medium to dark brown - grey; weathered; extremely high strength; tough;
								BANDS OF SILICIFIED BASALT, CHALCEDONY *
								INFILLING OF VESICLES *
								CHANGE TO DOWN THE HOLE HAMMER BIT * AT 13 METRES
					22.50	2.50	BASALT	Medium to dark grey - brown; fresh; extremely high strength; tough.

090
2711135

LAUNCESTON. GEOLOGICAL LOG REPORT ATP EL2080 LAUNCESTON TENEMENT 2080

STRAT NAME	SEQ NO.	SEAM NAME	WORK SECT	SAMPLE NUMBER	DEPTH (m)	THICK (m)	ROCK TYPE	GEOLOGICAL DESCRIPTION OF STRATA
					28.80	6.30	DOLERITE	Medium to dark grey, fresh, extremely high strength, tough;
								PENETRATION RATE 1 METER PER 9 MINUTES *
								HOLE MAKING WATER LESS THAN 100 GALLON *
								S PER HOUR *
								COARSER AND HARDER THAN BASALT *
								QUARTZ CARBONATE VEINING COMMON

END OF BORE AT 28.80 m

EL2080 LAUNCESTON, R0011

070 771136

****
EL2080 LAUNCESTON, R0012
****

Easting: 487310.000
Northing: 5409930.000
Grid Type: Australian Mapping Grid
Accuracy: Approximate
Crl: 150.00
Datum: Approximate Level - Not Surveyed
Sheet Reference:
Sheet Index:
Total Depth: 73.60
Drilling Commenced: 27/10/91
Drilling Completed: 28/10/91
Inclination:
Azimuth:
Standing Water Level: 4.4

Available Data: Gamma Logs
Density Logs
Resistivity Logs
Caliper Logs

Logging Organisation: CSR Exploration and Evaluation Group
Logged By: ELLIS
Drilling Contractor: R.J. Steensels
Geophysical Logging: Murdoch Geophysics

County:
Parish:
Portion:

Plug Depths:
Hole Diameter: 150
Core Diameter:
Cased Depths:
Core Barrel:

Drill Bits: Blades

ALL ROCKS ARE FRESH UNLESS OTHERWISE INDICATED

071
7711137

STRAT NAME	SEQ NO.	SEAM NAME	WORK SECT	SAMPLE NUMBER	DEPTH (m)	THICK (m)	ROCK TYPE	GEOLOGICAL DESCRIPTION OF STRATA
					0.50	0.50	SAND	Silty; clayey; medium to dark brown; firm; non-plastic; occasional woody fragments.
					1.80	1.30	CLAY	Sandy; quartzose; mottled orange - yellow; firm; high plasticity (clay); medium grained; uniform; occasional woody fragments; Additional features include: grey.
					2.30	0.50	CLAY	Sandy; quartzose; light to medium grey; firm; high plasticity (clay).
					3.30	1.00	CLAY	Sandy; quartzose; light to medium orange - yellow; firm; low plasticity (clay).
					3.60	0.30	CLAY	Silty; sandy; mottled orange - grey; firm; low plasticity (clay); very fine grained.
					4.60	1.00	CLAY	Silty; sandy; mottled grey - orange; firm; high plasticity (clay); very fine grained.
					5.80	1.20	GRAVEL	Sandy; clayey; medium dense; non-plastic; Bands include: CLAY; silty; sandy; mottled grey - orange; firm; high plasticity (silt).
					6.40	0.60	SAND	Clayey; gravelly; medium dense; non-plastic.
					8.80	2.40	SILT	Sandy; clayey; mottled orange - grey; soft; low plasticity (clay).
					9.50	0.70	CLAY	Silty; gravelly; mottled orange - grey; firm; low plasticity (clay); MEDIUM GRAVEL
					10.10	0.60	SILT	Sandy; clayey; mottled grey - white; soft; low plasticity (silt); very fine grained; Additional features include: pink.
					10.80	0.70	CLAY	Silty; sandy; mottled grey - orange; soft; low plasticity (clay); fine and medium grained; Additional features include: gravelly; COARSE GRAVEL

27138

073

STRAT NAME	SEQ NO.	SEAM NAME	WORK SECT	SAMPLE NUMBER	DEPTH (m)	THICK (m)	ROCK TYPE	GEOLOGICAL DESCRIPTION OF STRATA
					11.50	0.70	CLAY	Mottled grey - orange; soft; low plasticity (clay).
					12.60	1.10	SILT	Sandy, clayey, mottled grey - orange; medium dense; non-plastic; fine and medium grained; Additional features include: gravelly;
								FINE TO MEDIUM GRAVEL
					13.80	1.20	CLAY	Silty; sandy; light to medium grey - orange; soft; low plasticity (clay);
								CHANGE CIRCULATING FLUID AT 12.8M
					15.80	2.00	CLAY	Silty; sandy; mottled grey - white; soft; low plasticity (clay); Bands include: CLAY; silty; light to medium orange - yellow; soft; low plasticity (clay); Bands include: CLAY; light grey; firm; high plasticity (clay).
					18.20	2.40	CLAY	Silty; sandy; light grey - white; soft; high plasticity (clay);
								BLOCKED BIT AT 16M.; REAMED CLAY BALLS; *
								CHANGED CIRCULATING FLUID
					20.20	2.00	CLAY	Silty; light grey - white; soft; high plasticity (clay), common woody fragments;
								WITH SOME SAND P
								Bands include: CLAY; carbonaceous; light to medium brown; soft; high plasticity (clay).
					23.20	3.00	CLAY	Silty; kaolinitic; light grey; soft; high plasticity (clay); rare woody fragments; Bands include: CLAY; carbonaceous; light to medium brown; soft; high plasticity (clay);
								LIGHT GREY CLAY DISPERSIVE; THICKENS *
								CIRCULATING FLUID READILY; BENTONITIC

771139

REPORT TC14-01 THIESS COAL SYSTEM PAGE 18 11/ 6/82 16:25:14

STRAT NAME	SEQ NO.	SEAM NAME	WORK SECT	SAMPLE NUMBER	DEPTH (m)	THICK (m)	ROCK TYPE	GEOLOGICAL DESCRIPTION OF STRATA
					34.80	11.60	CLAY	Silty; light grey; soft; high plasticity (clay); occasional woody fragments;
								CHANGE MUD AT 32 METRES
					37.80	3.00	CLAY	Silty; sandy; light grey; soft; low plasticity (clay); common woody fragments.
					39.70	1.90	CLAY	Silty; light grey; firm; high plasticity (clay); common woody fragments;
								CHANGED MUD AT 38.4 METRES *
								WOOD FRAGMENTS ARE TWIGS AND BRANCHES
					40.30	0.60	INFERIOR LIGNITE	Woody textured; rooty; dark brown; firm; friable.
					41.60	1.30	CLAY	Carbonaceous; medium to dark brown - grey; firm; high plasticity (clay).
					41.90	0.30	LIGNEOUS CLAY	Medium to dark brown; firm; low plasticity (organic).
					42.20	0.30	INFERIOR LIGNITE	Medium to dark brown; firm; friable.
					42.60	0.40	LIGNITE	Medium to dark brown - black; firm; friable.
					44.80	2.20	LIGNEOUS CLAY	Medium to dark brown; firm; low plasticity (organic).
					45.50	0.70	LIGNITE	Medium to dark brown - black; firm; friable.
					46.70	1.20	LIGNEOUS CLAY	Medium to dark brown; firm; low plasticity (organic);
								BASE OF LIGNEOUS HORIZON UNDERFINED *
								DUE TO GEOPHYSICAL LOG ENDING AT 47M. NO LIGNITE LOGGED FROM CHIPS. *
					48.90	2.20	CLAY	Silty; sandy; light grey; soft; low plasticity (clay); common woody fragments.
					53.60	4.70	CLAY	Silty; light to medium grey; very soft; low plasticity (clay);
								CLAY VERY SOFT AND DISPERSIVE

024

771140

020

STRAT NAME	SEQ NO.	SEAM NAME	WORK SECT	SAMPLE NUMBER	DEPTH (m)	THICK (m)	ROCK TYPE	GEOLOGICAL DESCRIPTION OF STRATA
					59.30	5.70	CLAY	Light to medium grey; firm; high plasticity (clay); Bands include: CLAY; light to medium brown - grey; firm; high plasticity (clay).
					62.00	2.70	SAND	Silty; quartzose; light white - grey; very soft; non-plastic; common woody fragments; Bands include: CLAY; light to medium grey; firm; high plasticity (clay).
					62.40	0.40	SAND	Quartzose; woody textured; light to medium brown; medium dense; non-plastic; abundant woody fragments.
					63.00	0.60	SAND	Clayey; quartzose; light grey - white; medium dense; non-plastic; Bands include: CLAY; light to medium grey; firm; high plasticity (clay).
					63.50	0.50	SAND	Quartzose; woody textured; light to medium brown; medium dense; non-plastic; abundant woody fragments.
					65.80	2.30	CLAY and CLAY	Interbedded 50:50. CLAY: sandy; light white - grey; medium dense; non-plastic; CLAY: light to medium grey; firm; high plasticity (clay).
					66.20	0.40	SAND	Quartzose; light white - grey; medium dense; non-plastic; fine and medium grained.
					68.20	2.00	CLAY	Light to medium grey; firm; high plasticity (clay); common woody fragments; Bands include: SAND; clayey; quartzose; light white - grey; very soft; non-plastic; common woody fragments.
					70.00	1.80	CLAY	Light to medium grey; firm; high plasticity (clay); Bands include: SAND; clayey; quartzose; light white - grey; very soft; non-plastic; fine and medium grained; Bands include: SAND; quartzose; light grey; medium dense; non-plastic; fine and medium grained.

211141

STRAT NAME	SEQ NO.	SEAM NAME	WORK SECT	SAMPLE NUMBER	DEPTH (m)	THICK (m)	ROCK TYPE	GEOLOGICAL DESCRIPTION OF STRATA
					73.60	3.60	CLAY	Light to medium grey, firm, high plasticity (clay); Bands include: CLAY, light to medium brown - grey, firm, high plasticity (clay);
								POSSIBLE LIGNEOUS HORIZON BETWEEN *
								62 AND 65 METRES. SAMPLE RETURN *
								POOR. RECIRCULATING CUTTINGS IN MUD *
								DRILLING FLUID

END OF BORE AT 73.60 m

EL2080 LAUNCESTON. R0012

029
711142

****
EL2080 LAUNCESTON. R0013
****

Eastings:	492720.000	Logging Organisation:	CSR Exploration and Evaluation Group
Northings:	5409000.000	Logged By:	ELLIS
Grid Type:	Australian Mapping Grid	Drilling Contractor:	P.J. Bloemsole
Accuracy:	Approximate	Geophysical Logging:	Murdoch Geophysics
Grl:	150.00		
Datum:	Approximate Level - Not Surveyed		
Sheet Reference:		County:	
Sheet Index:		Parish:	
Total Depth:	20.00	Portion:	
Drilling Commenced:	28/10/91		
Drilling Completed:	30/10/91		
Inclination:		Plug Depths:	
Azimuth:		Hole Diameter:	150
Standing Water Level:		Core Diameter:	
		Cased Depths:	
		Core Barrel:	
Available Data:	Gamma Logs		
	Density Logs		
	Resistivity Logs	Drill Bits:	Blades
	Caliper Logs		

ALL ROCKS ARE FRESH UNLESS OTHERWISE INDICATED

077
711143

078

STRAT NAME	SEQ NO.	SEAM NAME	WORK SECT	SAMPLE NUMBER	DEPTH (m)	THICK (m)	ROCK TYPE	GEOLOGICAL DESCRIPTION OF STRATA
QA					1.50	1.50	SAND	Silty, clayey, medium to dark brown, weathered, soft, non-plastic, fine and medium grained, well sorted, rounded.
QA					2.20	0.70	CLAY	Silty, medium to dark brown - yellow, weathered, firm, high plasticity (clay).
QA					3.15	0.95	CLAY	Sandy, quartzose, medium to dark orange, weathered, medium dense, non-plastic, fine and medium grained, well sorted, rounded, iron oxide, cement; Bands include: CLAY, sandy, quartzose, medium to dark orange, weathered, low strength, brittle, fine and medium grained, well sorted, rounded, iron oxide, cement; Bands include: CLAY, sandy, quartzose, medium to dark orange, weathered, firm, friable, fine and medium grained, well sorted, rounded, iron oxide, cement.
QA					3.80	0.65	SAND	Quartzose, clayey, light to medium orange - yellow, weathered, medium dense, non-plastic; BECOMING MOTTLED CREAM-YELLOW * TOWARDS BASE
QA					4.40	0.60	CLAY	Sandy, quartzose, medium to dark orange, weathered, firm, low plasticity (clay).
QA					5.45	1.05	SAND	Quartzose, clayey, light to medium orange - yellow, weathered, medium dense, non-plastic; Bands include: CLAY, sandy, quartzose, medium to dark orange, weathered, firm, low plasticity (clay).
QA					6.90	1.45	CLAY	Sandy, quartzose, medium to dark orange, weathered, firm, low plasticity (clay); Bands include: SAND, quartzose, clayey, light to medium orange - yellow, weathered, medium dense, non-plastic.
QA					7.40	0.50	SAND	Quartzose, clayey, light to medium orange - yellow, weathered, medium dense, non-plastic.
QA					8.40	1.00	CLAY	Silty, mottled orange - yellow, weathered, soft, high plasticity (clay); Additional features include: grey.
QA					8.95	0.55	CLAY	Mottled orange - yellow, soft, high plasticity (clay); Additional features include: grey.

EL2080 LAUNCESTON. R0013

771144

STRAT NAME	SEQ NO.	SEAM NAME	WORK SECT	SAMPLE NUMBER	DEPTH (m)	THICK (m)	ROCK TYPE	GEOLOGICAL DESCRIPTION OF STRATA
QA					10.65	1.70	CLAY	Silty; mottled orange - yellow; soft; high plasticity (clay); Additional features include: grey.
QA					12.05	1.40	SAND	Clayey; quartzose; light to medium orange - yellow; soft; non-plastic.
QA					12.40	0.35	CLAY	Sandy; quartzose; light to medium orange - yellow; firm; high plasticity (clay).
QA					12.85	0.45	SAND	Clayey; quartzose; light to medium orange - yellow; soft; non-plastic.
QA					14.20	1.35	CLAY	Mottled orange - yellow; firm; high plasticity (clay); Additional features include: grey.
TE					15.50	1.30	CLAY	Carbonaceous; medium to dark brown; soft; high plasticity (clay).
					16.70	1.20	LIGNITE	Dark black - brown; firm; friable.
					17.45	0.75	CLAY	Carbonaceous; medium to dark brown; soft; high plasticity (clay).
					18.40	0.95	LIGNITE	Dark black - brown; firm; friable.
					19.10	0.70	CLAY	Lignaceous; medium to dark brown - grey; soft; high plasticity (clay).
					19.90	0.80	INFERIOR LIGNITE	Medium to dark black - brown; firm; friable;
								ANOMOLOUS GAMMA VS DENSITY PLOTS ON *
								GEOPHYSICAL LOG TOP TWO SPLITS MAY BE * OXIDIZED LIGNITE-LIGNITE LOGGED WHEN * IN FIELD
					22.80	2.90	CLAY	Carbonaceous; medium to dark brown; firm; high plasticity (clay); gradational base; occasional lignaceous wisps; Bands include: CLAY; carbonaceous; light to medium brown - grey; firm; high plasticity (clay).
					26.70	3.90	CLAY	Carbonaceous; light to medium brown - grey; firm; high plasticity (clay); common woody fragments; Additional features include: occasional lignaceous fragments; Bands include: CLAY; light brown - grey; soft; high plasticity (clay); common woody fragments.

079
271145

REPORT TC14-01 THIESS COAL SYSTEM PAGE 21 11/ 6/82 16:25:17

LAUNCESTON. GEOLOGICAL LOG REPORT ATP EL2080 LAUNCESTON TENEMENT 2080

080

STRAT NAME	SEQ NO.	SEAM NAME	WORK SECT	SAMPLE NUMBER	DEPTH (m)	THICK (m)	ROCK TYPE	GEOLOGICAL DESCRIPTION OF STRATA
					27.45	0.75	SAND	Light grey - brown; firm; friable; siderite; secondary; cement; Bands include: SAND; light grey - brown; low strength; brittle; siderite; secondary; cement.
					27.90	0.45	SIDERITE	Silicified; light grey - brown; high strength; tough;
								CHANGE TO ROLLER BIT 27.45M *
								CHANGE TO BLADE BIT 31M
					30.60	2.70	CLAY	Light grey - white; firm; high plasticity (clay).
					31.10	0.50	INFERIOR LIGNITE	Medium to dark brown - black; firm; friable.
					32.00	0.90	LIGNEOUS CLAY	Medium to dark brown; firm; low plasticity (organic).
					35.90	3.90	CLAY	Light grey - white; soft; high plasticity (clay).
					36.30	0.40	CLAY	Carbonaceous; medium to dark brown; firm; low plasticity (organic).
					36.70	0.40	CLAY	Light grey - white; soft; high plasticity (clay).
					37.20	0.50	INFERIOR LIGNITE	Clayey; medium to dark brown; firm; friable.
					38.30	1.10	LIGNEOUS CLAY	Medium to dark brown; firm; low plasticity (organic); Bands include: INFERIOR LIGNITE; clayey; medium to dark brown; firm; friable.
					40.10	1.80	CLAY	Carbonaceous; medium to dark brown - grey; firm; high plasticity (clay).
					41.70	1.60	CLAY	Light grey - white; soft; high plasticity (clay).
					43.30	1.60	SAND	Quartzose; silty; light to medium grey; medium dense; non-plastic; common woody fragments.
					44.80	1.50	NO RECORD	
								DISCRETE DOLERITE BOULDERS; COBBLES; *
								GRAVEL TO 44.8 M.

271146

081

STRAT NAME	SEQ NO.	SEAM NAME	WORK SECT	SAMPLE NUMBER	DEPTH (m)	THICK (m)	ROCK TYPE	GEOLOGICAL DESCRIPTION OF STRATA
					57.50	12.70	SAND	Quartzose; clayey; light to medium brown; medium dense; non-plastic; occasional woody fragments;
								DOLERITE GRAVEL AND COBBLE HORIZONS.
					58.70	1.20	SAND	Clayey; gravelly; light to medium grey - brown; soft; non-plastic; fine and medium grained;
								DOLERITE GRAVEL COMMON
					60.40	1.70	CLAY	Sandy; light to medium grey; soft; non-plastic.
					61.50	1.10	SAND	Clayey; gravelly; light to medium grey; medium dense; non-plastic; fine and medium grained;
								DOLERITE GRAVEL
					66.70	5.20	CLAY	Sandy; light to medium grey; soft; non-plastic; Bands include: SAND; clayey; light to medium grey; medium dense; non-plastic.
					73.20	6.50	SAND	Clayey; light to medium grey; medium dense; non-plastic; fine and medium grained.
					80.00	6.80	CLAY	Sandy; light to medium grey; soft; non-plastic; fine and medium grained.

END OF BORE AT 80.00 m

EL2080 LAUNCESTON. R0013

27147

'230

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EL2080 LAUNCESTON. R0014
****

Easting:	492360.000	Logging Organisation:	CSR Exploration and Evaluation Group
Northing:	5410080.000	Logged By:	ELLIS
Grid Type:	Australian Mapping Grid	Drilling Contractor:	H.J. Stacpoole
Accuracy:	Approximate	Geophysical Logging:	Murdoch Geophysics
Crl:	155.00		
Datum:	Approximate Level - Not Surveyed		
Sheet Reference:		County:	
Sheet Index:		Parish:	
Total Depth:	80.00	Portion:	
Drilling Commenced:	30/10/81		
Drilling Completed:	31/10/81		
Inclination:		Plug Depths:	
Azimuth:		Hole Diameter:	150
Standing Water Level:	5.4	Core Diameter:	
		Cased Depths:	
		Core Barrel:	
Available Data:	Gamma Logs		
	Density Logs	Drill Bits:	Blades
	Resistivity Logs		Rollers
	Caliper Logs		

ALL ROCKS ARE FRESH UNLESS OTHERWISE INDICATED

241148

STRAT NAME	SEQ NO.	SEAM NAME	WORK SECT	SAMPLE NUMBER	DEPTH (m)	THICK (m)	ROCK TYPE	GEOLOGICAL DESCRIPTION OF STRATA
					0.80	0.80	SAND	Silty, clayey, medium to dark brown, medium dense, non-plastic.
					2.30	1.50	CLAY	Gravelly, silty, mottled grey - red, firm, high plasticity (clay), iron oxide, secondary, staining;
								CLAY CONTAINS BUCKSHOT GRAVEL
					5.30	3.00	CLAY	Mottled grey - purple, firm, high plasticity (clay); Additional features include: yellow.
					5.70	0.40	INFERIOR LIGNITE	Clayey, humified, medium to dark black - brown, firm, friable.
					6.30	0.60	INFERIOR LIGNITE	Clayey, humified, medium to dark black - brown, firm, friable; Bands include: LIGNEOUS CLAY, medium to dark brown - black, firm, high plasticity (organic).
					6.75	0.45	CLAY	Silty, medium to dark khaki - brown, soft, low plasticity (clay).
					8.00	1.25	INFERIOR LIGNITE and LIGNEOUS CLAY	Interbedded 50:50. INFERIOR LIGNITE: clayey, humified, medium to dark black - brown, firm, friable; LIGNEOUS CLAY: medium to dark brown - black, firm, high plasticity (organic).
					10.60	2.60	CLAY	Light to medium brown, firm, high plasticity (clay); Bands include: CLAY, light to medium grey - brown, firm, high plasticity (clay).
					12.75	2.15	INFERIOR LIGNITE	Humified, clayey, medium to dark black - brown, firm, friable; Bands include: LIGNEOUS CLAY, medium to dark brown, firm, low plasticity (organic);
								ANOMOLOUS GAMMA VS DENSITY LOGS, GAMMA *
								LOG INDICATES LIGNITE PRESENT, LIGNITE * LOGGED ON SITE, DENSITY LOG SHOWS NO * LIGNITE.
					14.35	1.60	CLAY	Light to medium brown, firm, high plasticity (clay).

030
271149

STRAT NAME	SEQ NO.	SEAM NAME	WORK SECT	SAMPLE NUMBER	DEPTH (m)	THICK (m)	ROCK TYPE	GEOLOGICAL DESCRIPTION OF STRATA
					15.40	1.05	CLAY	Ligneous, medium to dark brown - grey, firm, high plasticity (clay), common woody fragments.
					16.80	1.40	CLAY	Light to medium grey - brown, firm, low plasticity (clay), common ligneous fragments.
					17.70	0.90	CLAY	Ligneous, medium to dark brown - grey, firm, high plasticity (clay).
					19.80	2.10	CLAY	Silty, light grey - brown, soft, high plasticity (clay); WITH SOME SAND
					20.00	0.20	SIDERITE	Light grey - brown, extremely high strength, tough.
					21.35	1.35	CLAY	Quartzose, sandy, light white - grey, very soft, low plasticity (clay), very fine grained, well sorted, rounded; Additional features include: silty.
					26.00	4.65	SAND	Quartzose, clayey, light white - grey, very soft, non-plastic, fine grained, uniform, well sorted, rounded, equant; Additional features include: silty.
					26.30	0.30	SIDERITE	Silicified, light grey - brown, extremely high strength, tough.
					27.50	1.20	SAND	Silty, clayey, light grey - brown, high strength, tough, siderite, secondary, cement; Bands include: SAND, silty, clayey, light grey - brown, low strength, brittle, siderite, secondary, cement.
					28.40	0.90	SAND	Silty, clayey, light white - grey, medium dense, non-plastic; Additional features include: quartzose.
					28.65	0.25	SAND	Silty, clayey, light grey - brown, high strength, tough, siderite, secondary, cement.
					29.80	1.15	SAND	Silty, clayey, light white - grey, medium dense, non-plastic.

034
771159

STRAT NAME	SEQ NO.	SEAM NAME	WORK SECT	SAMPLE NUMBER	DEPTH (m)	THICK (m)	ROCK TYPE	GEOLOGICAL DESCRIPTION OF STRATA
					30.10	0.30	SAND	Silty, clayey, light grey - brown, high strength, brittle, siderite, secondary, cement;
								CHANGE TO ROLLER BIT AT 27M. CHANGE TO *
								BLADE BIT AT 33M DUE TO ROLLER BIT NOT CUTTING CHIPS THROUGH SOFT STRATA. *
					31.75	1.65	SILT	Sandy, clayey, light white - grey, medium dense, non-plastic, very fine grained, poorly sorted, well rounded, equant; Additional features include: fine grained, rounded.
					32.60	0.85	INFERIOR LIGNITE	Humified, dark black - brown, firm, friable; Bands include: LIGNEOUS CLAY, medium to dark brown, firm, high plasticity (organic).
					36.70	4.10	CLAY	Carbonaceous, silty, medium to dark brown - grey, firm, high plasticity (clay).
					37.20	0.50	INFERIOR LIGNITE	Sandy, medium to dark black - brown, firm, friable.
					37.80	0.60	LIGNITE	Dark black - brown, firm, friable.
					38.20	0.40	LIGNEOUS CLAY	Medium to dark brown, firm, low plasticity (organic).
					38.50	0.30	INFERIOR LIGNITE	Sandy, medium to dark black - brown, firm, friable.
					39.40	0.90	CLAY	Silty, light to medium brown, soft, high plasticity (clay).
					40.20	0.80	INFERIOR LIGNITE	Medium to dark black - brown, firm, friable; Bands include: LIGNITE, dark black - brown, firm, friable.
					40.60	0.40	CLAY	Silty, light to medium brown, soft, high plasticity (clay).
					41.30	0.70	INFERIOR LIGNITE	Dark black - brown, firm, friable.
					41.70	0.40	LIGNITE	Dark black - brown, firm, friable.

085
771151

STRAT NAME	SEQ NO.	SEAM NAME	WORK SECT	SAMPLE NUMBER	DEPTH (m)	THICK (m)	ROCK TYPE	GEOLOGICAL DESCRIPTION OF STRATA
					42.30	0.60	INFERIOR LIGNITE	Medium to dark black - brown, firm, friable;
								GEOPHYSICAL LOG SHOWS ANOMOLOUS GAMMA *
								DENSITY RESPONSE AS FOR ABOVE LIGNEOUS * HORIZON. LITHOLOGIES WERE LOGGED AS * SANDS WITH COMMON WOODY AND LIGNEOUS * MATERIAL. SUBSTITUTE WOODY OR LIGNEOUS * SAND FOR LIGNITES.
					50.90	8.60	SILT	Clayey, sandy, light to medium brown - grey, medium dense, non-plastic, common woody fragments; Additional features include: common ligneous fragments; Bands include: CLAY, carbonaceous, medium to dark brown - grey, soft, high plasticity (clay), common woody fragments; Bands include: CLAY, silty, sandy, light to medium brown - grey, soft, high plasticity (clay).
					51.20	0.30	SIDERITE	Light brown - grey, high strength, brittle.
					55.10	3.90	CLAY	Light white - grey, firm, high plasticity (clay).
					55.80	0.70	LIGNITE	Humified, gelatinous, dark brown - black, soft.
					56.90	1.10	INFERIOR LIGNITE	Humified, gelatinous, dark brown - black, soft.
					57.40	0.50	CLAY	Silty, light brown - grey, soft, high plasticity (clay).
					57.95	0.55	CLAY	Carbonaceous, medium to dark brown, soft, high plasticity (clay), common woody fragments.
					61.75	3.80	CLAY	Silty, light brown - grey, soft, high plasticity (clay).
					62.30	0.55	LIGNEOUS CLAY	Medium to dark brown, soft, high plasticity (clay).
					62.80	0.50	CLAY	Carbonaceous, medium to dark brown, soft, high plasticity (clay), common woody fragments.
					63.30	0.50	LIGNEOUS CLAY	Medium to dark brown - black, firm, friable.
					64.30	1.00	LIGNEOUS CLAY	Medium to dark brown, soft, high plasticity (organic); Bands include: CLAY, carbonaceous, medium to dark brown - grey, soft, high plasticity (clay), common woody fragments.

030
271152

STRAT NAME	SEQ NO.	SEAM NAME	WORK SECT	SAMPLE NUMBER	DEPTH (m)	THICK (m)	ROCK TYPE	GEOLOGICAL DESCRIPTION OF STRATA
					65.20	0.90	LIGNEOUS CLAY	Medium to dark brown, soft, high plasticity (organic); Bands include: CLAY, carbonaceous, medium to dark brown - grey, soft, high plasticity (clay), common woody fragments; Bands include: INFERIOR LIGNITE, clayey, medium to dark brown - black, firm, friable.
					65.70	0.50	INFERIOR LIGNITE	Clayey, medium to dark brown - black, firm, friable.
					66.20	0.50	LIGNEOUS CLAY	Medium to dark brown, soft, high plasticity (clay).
					67.80	1.60	CLAY	Carbonaceous, medium to dark brown - grey, soft, high plasticity (clay), common woody fragments.
					69.90	2.10	LIGNEOUS CLAY	Medium to dark brown, soft, high plasticity (organic); Bands include: CLAY, carbonaceous, medium to dark brown - grey, soft, high plasticity (clay), common woody fragments.
					70.55	0.65	CLAY	Carbonaceous, medium to dark brown - grey, soft, high plasticity (clay), common woody fragments.
					71.50	0.95	LIGNEOUS CLAY	Medium to dark brown, soft, high plasticity (organic); Bands include: CLAY, carbonaceous, medium to dark brown - grey, soft, high plasticity (clay), common woody fragments.
					72.80	1.30	CLAY	Carbonaceous, medium to dark brown - grey, soft, high plasticity (clay), common woody fragments.
					74.85	2.05	CLAY	Light to medium grey - brown, soft, high plasticity (clay).
					75.40	0.55	LIGNEOUS CLAY	Medium to dark brown, soft, high plasticity (organic).
					75.80	0.40	CLAY	Carbonaceous, medium to dark brown - grey, soft, high plasticity (clay), common woody fragments.
					76.30	0.50	LIGNEOUS CLAY	Medium to dark brown, soft, high plasticity (organic).
					80.00	3.70	CLAY	Carbonaceous, medium to dark brown, firm, high plasticity (organic), common woody fragments; Bands include: LIGNEOUS CLAY, medium to dark brown, firm, high plasticity (organic).

END OF BORE AT 80.00 m

037
711153

****
EL2080 LAUNCESTON. R0015
****

Eastins:	491340.000	Logging Organisation:	CSR Exploration and Evaluation Group
Northins:	6409060.000	Logged By:	ELLIS
Grid Type:	Australian Mapping Grid	Drilling Contractor:	H.J. Steeroole
Accuracy:	Approximate	Geophysical Logging:	Murdoch Geophysics
Crl:	150.00		
Datum:	Approximate Level - Not Surveyed		
Sheet Reference:		County:	
Sheet Index:		Parish:	
Total Depth:	54.40	Portion:	
Drilling Commenced:	31/10/81		
Drilling Completed:	01/11/81		
Inclination:		Plug Depths:	
Azimuth:		Hole Diameter:	150
Standing Water Level:	3.9	Core Diameter:	
		Cased Depths:	
		Core Barrel:	
Available Data:	Gamma Logs		
	Density Logs	Drill Bits:	Blades
	Resistivity Logs		
	Caliper Logs		

ALL ROCKS ARE FRESH UNLESS OTHERWISE INDICATED

080
2711154

630

STRAT NAME	SEQ NO.	SEAM NAME	WORK SECT	SAMPLE NUMBER	DEPTH (m)	THICK (m)	ROCK TYPE	GEOLOGICAL DESCRIPTION OF STRATA
					0.40	0.40	SILT	Clayey; gravelly; medium to dark brown; weathered; firm; low plasticity (silt);
								IRON OXIDE BUCKSHOT GRAVEL; WITH *
								SOME SAND
					0.60	0.20	CLAY	Silty; medium to dark grey; weathered; firm; low plasticity (clay).
					6.50	5.90	CLAY	Light to medium yellow; weathered; firm; high plasticity (clay);
								0 TO 6.5M SOIL PROFILE; CONTAINS FIBROUS *
								ROOTS
					9.00	2.50	CLAY	Light to medium grey; firm; high plasticity (clay); gradational base.
					11.00	2.00	CLAY	Light to medium grey - brown; firm; high plasticity (clay).
					12.60	1.60	CLAY	Light to medium grey; firm; low plasticity (clay).
					14.70	2.10	SAND	Clayey; quartzose; light white - grey; soft; non-plastic; medium grained; uniform; well sorted.
					15.00	0.30	CLAY	Silty; light to medium yellow - brown; extremely high strength; tough; iron oxide; cement;
								FERRICRETE; CONCRETIONARY IRON OXIDE *
								NODULES
					16.15	1.15	SAND	Clayey; light white - grey; soft; non-plastic.
					16.80	0.65	CLAY	Carbonaceous; light to medium brown - grey; firm; high plasticity (clay).
					17.40	0.60	INFERIOR LIGNITE	Humified; woody textured; medium to dark brown - black; soft; low plasticity (organic); Additional features include: gelatinous.
					18.10	0.70	CLAY	Carbonaceous; medium to dark brown - grey; firm; high plasticity (clay).

211155

REPORT TC14-01 THIESS COAL SYSTEM PAGE 28 11/ 6/82 16:25:19

STRAT NAME	SEQ NO.	SEAM NAME	WORK SECT	SAMPLE NUMBER	DEPTH (m)	THICK (m)	ROCK TYPE	GEOLOGICAL DESCRIPTION OF STRATA
					18.80	0.70	INFERIOR LIGNITE	Humified; gelatinous; medium to dark brown - black; soft; low plasticity (organic).
					19.40	0.60	LIGNEOUS CLAY	Medium to dark brown; firm; high plasticity (organic).
					21.30	1.90	CLAY	Carbonaceous; medium to dark brown - grey; firm; high plasticity (clay); abundant woody fragments.
					21.85	0.55	INFERIOR LIGNITE	Humified; dark black - brown; firm; friable; Bands include: INFERIOR LIGNITE; humified; gelatinous; dark black - brown; soft; low plasticity (organic).
					22.40	0.55	INFERIOR LIGNITE	Clayey; medium to dark brown - black; firm; low plasticity (organic).
					23.35	0.95	INFERIOR LIGNITE	Humified; dark black - brown; firm; friable; Bands include: INFERIOR LIGNITE; humified; gelatinous; dark black - brown; soft; low plasticity (organic).
					25.00	1.65	CLAY	Carbonaceous; medium to dark brown - grey; firm; high plasticity (clay); abundant woody fragments.
					25.90	0.90	LIGNEOUS CLAY	Medium to dark brown; firm; high plasticity (organic).
					28.20	2.30	CLAY	Carbonaceous; medium to dark brown; firm; high plasticity (clay); Bands include: INFERIOR LIGNITE; clayey; medium to dark brown - black; soft; low plasticity (organic).
					32.70	4.50	SAND	Ligneous; NO SAMPLE RETURN; 28 TO 33M
					33.20	0.50	INFERIOR LIGNITE	Medium to dark brown - black; firm; friable.
					33.70	0.50	LIGNEOUS CLAY	Medium to dark brown; firm; high plasticity (organic); Bands include: INFERIOR LIGNITE; medium to dark brown - black; firm; friable.
					34.30	0.60	INFERIOR LIGNITE	Medium to dark brown - black; firm; friable.
					35.00	0.70	CLAY	Carbonaceous; medium to dark brown - grey; firm; high plasticity (clay); common woody fragments.
					35.45	0.45	LIGNEOUS CLAY	Medium to dark brown; firm; high plasticity (organic).

090
77136

STRAT NAME	SEQ NO.	SEAM NAME	WORK SECT	SAMPLE NUMBER	DEPTH (m)	THICK (m)	ROCK TYPE	GEOLOGICAL DESCRIPTION OF STRATA
					36.65	1.20	LIGNEOUS CLAY	Medium to dark brown; firm; high plasticity (organic); Bands include: CLAY, carbonaceous; medium to dark brown - grey; firm; high plasticity (clay).
					38.70	2.05	CLAY	Light to medium grey - brown; firm; high plasticity (clay).
					39.10	0.40	INFERIOR LIGNITE	Dark brown - black; firm; friable.
					42.00	2.90	CLAY	Light grey - brown; firm; high plasticity (clay).
					42.10	0.10	SIDERITE	Light grey - brown; low strength; brittle.
					54.40	12.30	CLAY	Light grey - brown; firm; high plasticity (clay);
								HOLE ABANDONED DUE TO CLAY BALLING *
								CAUSING PRESSURE BUILD UP IN FORMA * TIONS BEING DRILLED AND WASHOUT OF * UPPERMOST STRATA. THIS RESULTED IN * CIRCULATION LOSS.

END OF BORE AT 54.40 m

EL2080 LAUNCESTON. R0015

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EL2080 LAUNCESTON. R0016
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Easting: 490690.000
Northing: 5407840.000
Grid Type: Australian Mapping Grid
Accuracy: Approximate
Grl: 150.00
Datum: Approximate Level - Not Surveyed
Sheet Reference:
Sheet Index:
Total Depth: 64.00
Drilling Commenced: 02/11/81
Drilling Completed: 02/11/81
Inclination:
Azimuth:
Standing Water Level: 0.5

Available Data: Gamma Logs
Density Logs
Resistivity Logs
Caliper Logs

Logging Organisation: CSR Exploration and Evaluation Group
Logged By: ELLIS
Drilling Contractor: H.J. Stacpoole
Geophysical Logging: Murdoch Geophysics

County:
Parish:
Portion:

Plug Depths:
Hole Diameter: 150
Core Diameter:
Cased Depths:
Core Barrel:

Drill Bits: Blades

ALL ROCKS ARE FRESH UNLESS OTHERWISE INDICATED

092
221158

093

STRAT NAME	SEQ NO.	SEAM NAME	WORK SECT	SAMPLE NUMBER	DEPTH (m)	THICK (m)	ROCK TYPE	GEOLOGICAL DESCRIPTION OF STRATA
					0.30	0.30	SAND	Silty; medium to dark brown - grey; medium dense; non-plastic; fine and medium grained;
								BANDS OF IRON OXIDE CEMENTED SAND
					1.50	1.20	CLAY	Sandy; quartzose; light to medium orange - yellow; firm; low plasticity (clay); fine and medium grained; uniform; gradational base;
								WITH SOME IRON OXIDE NODULES; GRAVELLY *
								HUMIC FIBROUS WOOD FRAGMENTS
					3.50	2.00	SAND	Clayey; quartzose; light to medium orange - yellow; medium dense; non-plastic; fine and medium grained; uniform.
					5.00	1.50	CLAY	Sandy; light to medium orange - yellow; firm; low plasticity (clay); Bands include: CLAY; silty; mottled orange - yellow; firm; low plasticity (clay); Additional features include: white - grey.
					8.00	3.00	CLAY	Sandy; silty; mottled grey - yellow; low strength; brittle; Additional features include: orange.
					10.70	2.70	CLAY	Silty; mottled yellow - orange; firm; high plasticity (clay); Bands include: CLAY; light to medium grey - brown; gradational base.
					18.90	8.20	CLAY	Light to medium brown - grey; firm; high plasticity (clay); Bands include: SIDERITE; 00.20 m thick; base at 0015.10m; light to medium grey - brown; low strength; brittle; Bands include: SIDERITE; 00.30 m thick; base at 0017.50m; light to medium grey - brown; low strength; brittle.
					24.00	5.10	CLAY	Light to medium grey - brown; firm; high plasticity (clay); Bands include: CLAY; 00.30 m thick; base at 0020.70m; light to medium green - brown; low strength; brittle; iron oxide; secondary; cement.
					26.50	2.50	SAND	Quartzose; clayey; light grey; medium dense; non-plastic; fine and medium grained; uniform; mixed sorting; subrounded; equant; fining upwards; rare woody fragments.

271159

094

STRAT NAME	SEQ NO.	SEAM NAME	WORK SECT	SAMPLE NUMBER	DEPTH (m)	THICK (m)	ROCK TYPE	GEOLOGICAL DESCRIPTION OF STRATA
					27.70	1.20	CLAY	Sandy; light grey; firm; low plasticity (clay); fine and medium grained.
					29.20	1.50	SAND	Quartzose; clayey; light grey; medium dense; non-plastic; fine and medium grained; rare woody fragments.
					30.60	1.40	CLAY	Light grey - green; firm; high plasticity (clay); rare woody fragments.
					32.00	1.40	SAND	Quartzose; clayey; light grey; medium dense; non-plastic; fine and medium grained; rare woody fragments.
					34.50	2.50	CLAY	Light grey - green; soft; high plasticity (clay); rare woody fragments.
					36.20	1.70	SAND	Quartzose; clayey; light grey; medium dense; non-plastic; rare woody fragments.
					41.30	5.10	CLAY	Light grey - white; firm; high plasticity (clay); occasional woody fragments; Bands include: CLAY; light brown - grey; firm; high plasticity (clay); CHANGED CIRCULATING FLUID AT 38.4M
					42.00	0.70	SIDERITE	Light grey - brown; extremely high strength; tough; Additional features include: green; CHANGED CIRCULATING FLUID AT 42.5M
					47.00	5.00	CLAY	Bentonitic; light green - grey; firm; high plasticity (clay); CLAY IS HIGHLY DISPERSIVE. CHANGED * CIRCULATING FLUID AT 46.5M
					49.60	2.60	SILT	Sandy; quartzose; light grey; medium dense; non-plastic; fine grained; common woody fragments; Additional features include: clayey.
					51.90	2.30	CLAY and CLAY	Interbedded 50:50. CLAY: bentonitic; light green - grey; firm; high plasticity (clay); CLAY: silty; light white - grey; soft; high plasticity (clay).

271160

095

STRAT NAME	SEQ NO.	SEAM NAME	WORK SECT	SAMPLE NUMBER	DEPTH (m)	THICK (m)	ROCK TYPE	GEOLOGICAL DESCRIPTION OF STRATA
					52.30	0.40	SILT	Sandy; quartzose; light grey; medium dense; non-plastic; fine grained; abundant woody fragments; Additional features include: clayey.
					54.00	1.70	CLAY	Bentonitic; light green - grey; firm; high plasticity (clay).
					54.50	0.50	SILT	Sandy; quartzose; light grey; medium dense; non-plastic; fine grained; common woody fragments; Additional features include: clayey.
					56.90	2.40	CLAY	Bentonitic; light grey - green; soft; high plasticity (clay); Bands include: CLAY; bentonitic; light to medium green - grey; firm; high plasticity (clay);
								THIS CLAY IS OF LOW STRENGTH. *
								CRUMBLES READILY *
								Bands include: CLAY; silty; light grey - brown; soft; high plasticity (clay); occasional woody fragments.
					62.00	5.10	CLAY	Bentonitic; light grey - green; soft; high plasticity (clay); Bands include: CLAY; silty; light to medium green - grey; firm; high plasticity (clay);
								HIGHLY DISPERSIVE LOW STRENGTH CLAYS
					64.00	2.00	CLAY and SAND	Interbedded 50:50. CLAY: bentonitic; light to medium green - grey; soft; high plasticity (clay); SAND: silty; clayey; light grey; medium dense; non-plastic.

END OF BORE AT 64.00 m

EL2080 LAUNCESTON. R0016

271161

090

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EL2080 LAUNCESTON. R0017
****

Eastins:	492140.000	Loggins Organisation:	CSR Exploration and Evaluation Group
Northins:	5406310.000	Logged By:	ELLIS
Grid Type:	Australian Mapping Grid	Drilling Contractor:	H.J. Stacpoole
Accuracy:	Approximate	Geophysical Logging:	Murdoch Geophysics
Drl:	155.00		
Datum:	Approximate Level - Not Surveyed		
Sheet Reference:		County:	
Sheet Index:		Parish:	
Total Depth:	33.00	Portion:	
Drilling Commenced:	03/11/81		
Drilling Completed:	03/11/81		
Inclination:		Plug Depths:	
Azimuth:		Hole Diameter:	120
Standing Water Level:	0.5	Core Diameter:	
		Cased Depths:	
		Core Barrel:	
Available Data:	Gamma Logs	Drill Bits:	Blades
	Density Logs		Rollers
	Resistivity Logs		Percussion
	Caliper Logs		

ALL ROCKS ARE FRESH UNLESS OTHERWISE INDICATED

271162

097

STRAT NAME	SEQ NO.	SEAM NAME	WORK SECT	SAMPLE NUMBER	DEPTH (m)	THICK (m)	ROCK TYPE	GEOLOGICAL DESCRIPTION OF STRATA
					1.40	1.40	CLAY	Silty; medium to dark brown - grey; weathered; firm; high plasticity (clay);
								WITH A TRACE OF IRONSTONE GRAVEL
					1.60	0.20	CLAY	Mottled brown - yellow; weathered; firm; high plasticity (clay);
								WITH A TRACE OF IRONSTONE GRAVEL
					6.00	4.40	GRAVEL	Clayey; sandy; medium to dark brown - red; weathered; medium dense; non-plastic; fining upwards;
								FINE TO MEDIUM GRAVEL
					6.80	0.80	BASALT	Medium to dark grey - green; weathered; high strength; brittle;
								CHANGE TO DOWN HOLE HAMMER BIT AT *
								6.8M. 120MM HOLE DIAMETER
					19.00	12.20	BASALT	Medium to dark grey - green; extremely high strength; tough; Bands include; CLAY; silty; sandy; light white - grey; firm; low plasticity (clay); Bands include; CLAY; indurated; light to medium green - grey, low strength, brittle;
								FROM 12M CHALCEDONNIC QUARTZ WAS *
								COMMON. BASALT LOOKS LIKE DOLERITE *
								DUE TO ALTERATION. *
								CLAY BANDS COMMONLY CONTAIN SMALL, LESS *
								THAN 1MM DIAMETER SPHEROIDS-MAYBE *
								FISOLITES FROM AN ASH BAND (TUFF).

7711163

STRAT NAME	SEQ NO.	SEAM NAME	WORK SECT	SAMPLE NUMBER	DEPTH (m)	THICK (m)	ROCK TYPE	GEOLOGICAL DESCRIPTION OF STRATA
					19.20	0.20	CLAY and BASALT	Interbedded 50:50. CLAY: sandy; light grey - white; firm; low plasticity (clay); BASALT: medium to dark grey - green; high strength; brittle;
								BASALT BANDS LESS COMMON TOWARDS *
								BASE OF UNIT. CLAY MAY BE DERIVED * FROM A TUFF. HOLE MAKING WATER, LESS * THAN 100 GAL/HR AT 19M.
TE					20.00	0.80	CLAY	Sandy; light grey - white; firm; low plasticity (clay), occasional lignous fragments;
								CHANGED TO 120MM BLADE BIT AT 19.3M
TE					22.90	2.90	CLAY and CLAY	Interbedded 60:40. CLAY: silty; light grey; firm; high plasticity (clay); occasional lignous fragments; CLAY: silty; light to medium brown - grey; firm; low plasticity (clay).
					27.80	4.90	CLAY	Silty; indurated; light to medium grey; low strength; brittle.
					33.00	5.20	SHALE and CLAY	Interbedded 60:40. SHALE: silicified; medium to dark green; high strength; brittle; subfissile; CLAY: silty; light to medium grey; low strength; brittle;
								TRIASSIC OR PERMIAN STRATA INTERSECTED *
								FROM 22.9M TO TD

END OF BORE AT 33.00 m

EL2080 LAUNCESTON. R0017

098
7711164

****
EL2080 LAUNCESTON. R0018
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Eastings: 492000.000
Northings: 5408950.000
Grid Type: Australian Mapping Grid
Accuracy: Approximate
Rl: 160.00
Datum: Approximate Level - Not Surveyed
Sheet Reference:
Sheet Index:
Total Depth: 90.00
Drilling Commenced: 04/11/91
Drilling Completed: 04/11/91
Inclination:
Azimuth:
Standing Water Level: 1.2

Available Data: Gamma Logs
Density Logs
Resistivity Logs
Caliper Logs

Logging Organisation: CSR Exploration and Evaluation Group
Logged By: ELLIS
Drilling Contractor: H.J. Stocreole
Geophysical Logging: Murdoch Geophysics

County:
Parish:
Portion:

Plug Depths:
Hole Diameter: 150
Core Diameter:
Cased Depths:
Core Barrel:

Drill Bits: Blades

ALL ROCKS ARE FRESH UNLESS OTHERWISE INDICATED

099
7711165

STRAT NAME	SEQ NO.	SEAM NAME	WORK SECT	SAMPLE NUMBER	DEPTH (m)	THICK (m)	ROCK TYPE	GEOLOGICAL DESCRIPTION OF STRATA
					0.20	0.20	SAND	Silty; medium to dark brown; weathered; medium dense; non-plastic.
					1.00	0.80	CLAY	Gravelly; mottled orange - yellow; firm; high plasticity (clay); abundant iron oxide; secondary; staining; Additional features include: grey.
					2.20	1.20	CLAY	Sandy; mottled orange - yellow; firm; low plasticity (clay); abundant iron oxide; secondary; staining; Additional features include: grey; Bands include: GRAVEL; silty; sandy; light to medium orange - red; medium dense; non-plastic; abundant iron oxide; secondary; staining.
					3.20	1.00	GRAVEL	Clayey; sandy; light to medium orange - red; medium dense; non-plastic; abundant iron oxide; secondary; staining.
					6.00	2.80	CLAY	Gravelly; mottled red - orange; firm; high plasticity (clay); abundant iron oxide; secondary; staining; Additional features include: white - grey.
					9.60	3.60	CLAY	Mottled red - orange; firm; high plasticity (clay); Additional features include: white - grey; WITH A TRACE OF GRAVEL
					10.50	0.90	CLAY	Mottled white - grey; firm; high plasticity (clay).
					10.60	0.10	CLAY	Medium to dark red - purple; stiff; high plasticity (clay); abundant iron oxide; secondary; staining; Additional features include: abundant manganese; secondary; staining.
					22.00	11.40	CLAY	Buff - khaki; fresh; firm; conchoidal fracture; high plasticity (clay); Bands include: CLAY; base at 0011.60m; medium to dark buff - khaki; firm; high plasticity (clay); Bands include: CLAY; medium to dark grey; firm; high plasticity (clay); DUMPED MUD AT 12.8M * WITH SOME RED-ORANGE MOTTLING * KAOLINITIC CLAY LOW STRENGTH CRUMBLES READILY * DUMPED MUD AT 19.2M

100 7711166

STRAT NAME	SEQ NO.	SEAM NAME	WORK SECT	SAMPLE NUMBER	DEPTH (m)	THICK (m)	ROCK TYPE	GEOLOGICAL DESCRIPTION OF STRATA
					27.00	5.00	CLAY	Mottled white - grey; stiff; high plasticity (clay); Bands include: CLAY, silty, medium to dark red, stiff, high plasticity (clay); abundant iron oxide; secondary, staining; Bands include: CLAY, silty, medium to dark red, low strength, brittle, abundant iron oxide; secondary, cement; Bands include: CLAY, light grey, firm, high plasticity (clay); CLAYS ARE HIGHLY INTERBANDED FROM 17.0 *
								METRES TO 27.0 METRES * CHANGED MUD AT 24.0 AND 26.0 METRES
					31.00	4.00	CLAY	Light grey, soft, high plasticity (clay); Bands include: CLAY, silty, medium to dark red, low strength, brittle; Bands include: CLAY, silty, medium to dark red, stiff, high plasticity (clay); Bands include: CLAY, light grey, firm, high plasticity (clay).
					34.80	3.80	SAND	Silty, quartzose, light grey, medium dense, non-plastic, fine grained, common woody fragments.
					36.00	1.20	CLAY	Silty, light grey, soft, low plasticity (clay); IRON/MANGANESE OXIDE CEMENTED SANDY CLAYEY NOD *
								ULES COMMON POSSIBLY NOT CLAY BUT CLAYEY SAND * HARD TO DETERMINE DUE TO EXTRA-THICK MUD * DUMPED MUD AT 36.0 METRES
					39.60	3.60	SAND	Silty, quartzose, light to medium brown, medium dense, non-plastic, fine and medium grained; Additional features include: lignoous.
					41.10	1.50	SAND	Silty, quartzose, light to medium brown, medium dense, non-plastic, fine and medium grained; Additional features include: lignoous; Bands include: CLAY, lignoous, silty, medium to dark brown, soft, low plasticity (organic), common woody fragments; Bands include: CLAY, carbonaceous, medium to dark brown - grey, soft, low plasticity (organic), common woody fragments.
					42.30	1.20	CLAY	Carbonaceous, medium to dark brown - grey, soft, low plasticity (organic), common woody fragments.

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2711164

102

STRAT NAME	SEQ NO.	SEAM NAME	WORK SECT	SAMPLE NUMBER	DEPTH (m)	THICK (m)	ROCK TYPE	GEOLOGICAL DESCRIPTION OF STRATA
					44.50	2.20	LIGNITE	Medium to dark black - brown; firm; friable.
					46.00	1.50	CLAY	
					47.90	1.90	LIGNEOUS CLAY	
					54.50	6.60	CLAY	
					55.40	0.90	INFERIOR LIGNITE	
					55.90	0.50	LIGNEOUS CLAY	
					56.70	0.80	INFERIOR LIGNITE	
					57.55	0.85	CLAY	Carbonaceous.
					61.45	3.90	CLAY	
					63.20	1.75	LIGNEOUS CLAY	
					65.50	2.30	SAND	Lignous; quartzose; light to medium brown; medium dense; non-plastic; fine and medium grained;
								HUMIFIED AND FIBEROUS PEATY-WOODY FRAGMENTS *
								POSSIBLY WOODY-SANDY INFERIOR LIGNITE
					66.60	1.10	SAND	Silty; light grey; medium dense; non-plastic.
					70.00	3.40	CLAY	Silty; sandy; light grey - brown; soft; low plasticity (clay); very fine grained;
								POSSIBLY WITH SAND INTERBEDDED 50/50
					71.50	1.50	SIDERITE	Light grey - brown; low strength; brittle.
					80.00	8.50	SILT	Sandy; light grey; medium dense; non-plastic; very fine grained.

END OF BORE AT 80.00 m

EL2080 LAUNCESTON. R0018

771168

LAUNCESTON. GEOLOGICAL LOG REPORT ATP EL2080 LAUNCESTON TENEMENT 2080

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EL2080 LAUNCESTON. C0019
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Eastins: 488160.000
Northins: 5410940.000
Grid Type: Australian Mapping Grid
Accuracy: Approximate
Crl: 150.00
Datum: Approximate Level - Not Surveyed
Sheet Reference:
Sheet Index:
Total Depth: 34.78
Drilling Commenced: 02/12/81
Drilling Completed: 02/12/81
Inclination:
Azimuth:
Standins Water Level: 3.8

Available Data: Gamma Logs
Density Logs
Resistivity Logs
Caliper Logs

Loggins Organisation: CSR Exploration and Evaluation Group
Logged By: HINRICHS
Drilling Contractor: H.J. Steeroole
Geophysical Loggins: Murdoch Geophysics

County:
Parish:
Portion:

Plug Depths:
Hole Diameter: 150
Core Diameter: 100
Cased Depths: 6.0
Core Barrel: Triefus Triple Barrel

Drill Bits: Blades
Rollers

ALL ROCKS ARE FRESH UNLESS OTHERWISE INDICATED

103
771169

STRAT NAME	SEQ NO.	SEAM NAME	WORK SECT	SAMPLE NUMBER	DEPTH (m)	THICK (m)	ROCK TYPE	GEOLOGICAL DESCRIPTION OF STRATA
				R	3.55	3.55	NO RECORD	
				C2746	3.64	0.09	LIGNEOUS CLAY	Mottled brown; firm; low plasticity (organic); good core - unbroken.
				C2746	3.86	0.22	CLAY	Medium to dark brown; firm; high plasticity (clay); good core - unbroken; occasional lignous wisps.
				C2746	3.91	0.05	LIGNEOUS CLAY	Dark brown; firm; low plasticity (organic); good core - unbroken.
				C2747	3.97	0.06	LIGNITE	Dark brown - black; firm; friable; good core - unbroken; common bioturbation.
				C2747	4.08	0.11	INFERIOR LIGNITE	Dark brown - black; firm; friable; good core - unbroken.
				C2748	4.09	0.01	CLAY	Lignegus; medium to dark brown; firm; low plasticity (clay); good core - unbroken.
				C2748	4.18	0.09	INFERIOR LIGNITE	Clayey; dark brown - black; firm; friable; good core - unbroken; gradational base; RARE CLAY BANDS
				C2748	4.22	0.04	CLAY	Lignegus; dark brown; firm; high plasticity (clay); good core - unbroken.
				C2748	4.27	0.05	LIGNITE	Clayey; dark brown - black; firm; friable; good core - unbroken; fissile; occasional bioturbation.
				C2748	4.37	0.10	LIGNITE	Dark brown; firm; friable; good core - unbroken.
				C2748	4.44	0.07	LIGNEOUS CLAY	Dark brown; firm; low plasticity (organic); good core - unbroken.
				C2748	4.49	0.05	INFERIOR LIGNITE	Clayey; dark brown; firm; friable; good core - unbroken; subfissile.
				C2748	4.53	0.04	LIGNITE	Woody textured; dark brown - black; firm; friable; good core - unbroken; fissile.
				C2748	4.55	0.02	LIGNITE	Clayey; dark brown; firm; friable; good core - unbroken; subfissile; occasional bioturbation.

104
771170

105

STRAT NAME	SEQ NO.	SEAM NAME	WORK SECT	SAMPLE NUMBER	DEPTH (m)	THICK (m)	ROCK TYPE	GEOLOGICAL DESCRIPTION OF STRATA
				C2748	4.80	0.25	LIGNITE	Dark brown - black, firm, friable, good core - unbroken, fissile, gradational base.
				C2749	4.83	0.03	INFERIOR LIGNITE	Clayey, dark brown, firm, friable, good core - unbroken, fissile.
				C2749	4.89	0.06	LIGNEOUS CLAY	Medium to dark brown, firm, low plasticity (organic), good core - unbroken.
				C2749	5.09	0.20	CLAY	Medium to dark brown - grey, firm, high plasticity (clay), good core - unbroken, sharp irregular base, beds dip at 05 degrees, occasional ligneous wisps; Additional features include: occasional woody fragments; Additional features include: occasional bioturbation.
				C2750	5.14	0.05	INFERIOR LIGNITE	Woody textured, clayey, dark brown - black, firm, friable, good core - unbroken, fissile; Bands include: INFERIOR LIGNITE, woody textured, clayey, dark brown - black, low strength, brittle, good core - unbroken, fissile.
				C2750	5.16	0.02	INFERIOR LIGNITE	Dark brown - black, firm, friable, good core - unbroken.
				C2750	5.37	0.21	LIGNITE	Woody textured, dark brown, firm, friable, good core - unbroken, fissile, occasional resin aggregates.
				C2751	5.42	0.05	INFERIOR LIGNITE	Clayey, dark brown, firm, friable, good core - unbroken, common resin aggregates.
				C2751	5.55	0.13	LIGNITE	Woody textured, clayey, dark brown - black, firm, friable, good core - unbroken, fissile, occasional resin aggregates.
				C2751	5.64	0.09	LIGNITE	Woody textured, dark brown, firm, friable, good core - unbroken, fissile, occasional resin aggregates.
				C2751	5.67	0.03	LIGNITE	Dark brown - black, low strength, friable, good core - unbroken, fissile.
					5.74	0.07	CORE LOSS	
				C2752	6.17	0.43	LIGNITE	Woody textured, clayey, dark brown, firm, friable, core crushed, fissile;
								COMMON CLAY WISPS, WOOD IS LOW STRENGTH *
								AND BRITTLE

EL2080 LAUNCESTON. C0019

771171

106

STRAT NAME	SEQ NO.	SEAM NAME	WORK SECT	SAMPLE NUMBER	DEPTH (m)	THICK (m)	ROCK TYPE	GEOLOGICAL DESCRIPTION OF STRATA
				C2752	6.35	0.18	LIGNITE	Humified; clayey; dark brown - black; soft; friable; core crushed;
								FISSILE WHEN FIRM FRIABLE
				C2752	6.58	0.23	INFERIOR LIGNITE	Clayey; humified; dark brown; soft; friable; core crushed; erodational base; occasional resin aggregates; Additional features include: gelatinous;
								LOW PLASTICITY TO FRIABLE; COLLOIDAL; RELATIVELY *
								HIGH MOISTURE
				C2753	6.85	0.27	INFERIOR LIGNITE	Clayey; humified; dark brown - black; soft; friable; core crushed; erodational base; rare resin aggregates;
								LOW PLASTICITY TO FRIABLE; GELATINOUS *
								COLLOID; OCCASIONAL WOOD BANDS
				C2754	7.38	0.53	INFERIOR LIGNITE	Clayey; dark brown; soft; friable; core crushed;
								LOW PLASTICITY TO FRIABLE; GELATINOUS; LESS *
								CLAY THAN OVERLYING UNIT B Bands include: LIGNITE; woody textured; dark brown - black; firm; friable;
								THICKNESS OF WOODY LIGNITE BANDS INCREASES *
								DOWN SEQUENCE
				C2755	7.41	0.03	LIGNEOUS CLAY	Dark brown; firm; low plasticity (organic); good core - unbroken; erodational base.
				C2755	7.44	0.03	CLAY	Lignecus; dark brown - black; firm; high plasticity (clay); good core - unbroken; erodational base.
				C2755	7.47	0.03	INFERIOR LIGNITE	Clayey; dark brown - black; firm; low plasticity (organic); good core - unbroken;
								LOW PLASTICITY TO FRIABLE; OCCASIONAL CLAY *
								WISPS

7711172

STRAT NAME	SEQ NO.	SEAM NAME	WORK SECT	SAMPLE NUMBER	DEPTH (m)	THICK (m)	ROCK TYPE	GEOLOGICAL DESCRIPTION OF STRATA
				C2755	7.64	0.17	INFERIOR LIGNITE	Clayey; woody textured; dark brown - black; soft; friable; good core - unbroken; fissile; common woody fragments.
				C2755	7.70	0.06	INFERIOR LIGNITE	Clayey; woody textured; dark brown - black; firm; friable; good core - unbroken; fissile.
				C2755	7.74	0.04	INFERIOR LIGNITE	Clayey; dark brown; firm; friable; good core - unbroken; fissile; gradational base; abundant woody fragments.
				C2756	7.78	0.04	LIGNEOUS CLAY	Dark brown; firm; low plasticity (organic); good core - unbroken; occasional ligneous wisps.
				C2756	7.91	0.13	CLAY	Dark brown - black; firm; high plasticity (clay); good core - unbroken; occasional bioturbation; Additional features include: occasional ligneous wisps.
				C2756	8.15	0.24	CLAY	Light to medium brown - grey; firm; high plasticity (clay); good core - unbroken; sharp irregular base; occasional bioturbation.
				C2756	8.18	0.03	CLAY	Ligneous; dark brown; firm; high plasticity (clay); good core - unbroken; gradational base.
				C2756	8.24	0.06	CLAY	Ligneous; dark brown; firm; low plasticity (clay); good core - unbroken; gradational base; occasional bioturbation.
				C2756	8.44	0.20	CLAY	Ligneous; dark brown; firm; high plasticity (clay); good core - unbroken; occasional bioturbation.
				C2756	8.53	0.09	LIGNEOUS CLAY	Dark brown; firm; high plasticity (organic); good core - unbroken.
				C2757	8.57	0.04	INFERIOR LIGNITE	Clayey; dark brown; firm; friable; good core - unbroken.
				C2757	8.63	0.06	CLAY	Ligneous; medium to dark brown - grey; firm; low plasticity (clay); good core - unbroken; gradational base; INCREASED CARBONACEOUS CONTENT TOWARDS BASE
				C2757	8.83	0.20	LIGNITE	Dark brown - black; firm; friable; good core - unbroken; common woody fragments; RARE CLAY WISPS

EL2080 LAUNCESTON. C0019

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7711173

STRAT NAME	SEQ NO.	SEAM NAME	WORK SECT	SAMPLE NUMBER	DEPTH (m)	THICK (m)	ROCK TYPE	GEOLOGICAL DESCRIPTION OF STRATA
				C2758	9.12	0.29	LIGNITE	Dark brown - black; firm; friable; good core - unbroken; gradational base; common woody fragments;
								RARE CLAY WISPS; WOOD FRAGMENTS MORE COMMON *
								TOWARDS BASE OF UNIT
				C2758	9.44	0.32	INFERIOR LIGNITE	Clayey; dark brown; firm; friable; good core - unbroken; rare bioturbation.
				C2758	9.78	0.34	LIGNITE	Dark brown - black; firm; friable; good core - unbroken; fissile;
								RARE CLAY BANDS; WOODY TEXTURE IN PART
				C2758	10.07	0.29	INFERIOR LIGNITE	Clayey; medium to dark brown - black; firm; friable; good core - unbroken; fissile; gradational base; occasional bioturbation; Additional feature include: abundant woody fragments;
								INCREASED BIOTURBATION AND INHERENT CLAY *
								TOWARDS BASE OF UNIT
				C2758	10.08	0.01	LIGNEOUS CLAY	Light to medium brown - grey; firm; high plasticity (organic); good core - unbroken.
				C2759	10.71	0.63	CLAY	Mottled brown - grey; firm; high plasticity (clay); good core - unbroken; occasional ligneous wisps;
								CLAY IS LIGHT TO MID BROWN-GREY, WITH RARE *
								CARBONACEOUS WISPS
				C2759	10.93	0.22	CLAY	Sandy; quartzose; light to medium grey - brown; firm; high plasticity (clay); good core - unbroken; very fine grained; gradational base.
				C2759	11.07	0.14	SAND	Clayey; quartzose; light to medium grey; firm; low plasticity (clay); good core - unbroken; very fine grained; occasional ligneous wisps.
				C2759	11.10	0.03	CLAY	Sandy; woody textured; medium to dark grey - brown; firm; low plasticity (clay); good core - unbroken.

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2711174

REPORT TC14-01 THIESS COAL SYSTEM PAGE 7 11/ 6/82 16:27:55

STRAT NAME	SEQ NO.	SEAM NAME	WORK SECT	SAMPLE NUMBER	DEPTH (m)	THICK (m)	ROCK TYPE	GEOLOGICAL DESCRIPTION OF STRATA
				C2759	11.22	0.12	SAND	Clayey; light to medium grey; firm; low plasticity (clay); good core - unbroken; very fine grained.
				C2759	11.33	0.11	SAND	Clayey; light to medium grey - brown; firm; low plasticity (clay); good core - unbroken; very fine grained; rare ligneous wisps; Additional features include: good core - unbroken; abundant woody fragments.
				C2759	11.45	0.12	SAND	Clayey; light to medium grey; firm; low plasticity (clay); good core - unbroken; very fine grained; abundant bioturbation.
				C	11.56	0.11	CORE LOSS	
				R	14.80	3.24	CLAY	Sandy; light to medium grey; firm; low plasticity (clay); very fine grained; Bands include: LIGNEOUS CLAY; silty; medium to dark brown; firm; low plasticity (organic); common ligneous wisps.
				C2760	14.84	0.04	CLAY	Medium to dark brown; firm; low plasticity (clay); good core - unbroken.
				C2760	14.90	0.06	INFERIOR LIGNITE	Clayey; mottled brown; firm; friable; good core - unbroken; common bioturbation; LIGNITE IS MOTTLED MID TO DARK BROWN
				C2760	15.06	0.16	LIGNITE	Dark brown; firm; friable; good core - unbroken; common bioturbation.
				C2761	15.40	0.34	INFERIOR LIGNITE	Clayey; dark brown - black; firm; friable; good core - unbroken; occasional resin aggregates; Additional features include: common bioturbation.
				C2761	15.58	0.18	LIGNITE	Dark brown; firm; friable; good core - unbroken; subfissile; common bioturbation; Additional features include: good core - unbroken; common resin aggregates.
				C2761	15.62	0.04	LIGNITE	Woody textured; dark brown; firm; friable; good core - unbroken; fissile; common bioturbation.

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9741125

STRAT NAME	SEQ NO.	SEAM NAME	WORK SECT	SAMPLE NUMBER	DEPTH (m)	THICK (m)	ROCK TYPE	GEOLOGICAL DESCRIPTION OF STRATA
				C2761	15.84	0.22	LIGNITE	Clayey, dark brown, firm, friable, good core - unbroken, rare resin aggregates; Additional features include: good core - unbroken, common bioturbation.
				C2761	15.92	0.08	LIGNITE	Woody textured, dark brown, firm, friable, good core - unbroken, fissile, gradational base, common bioturbation; Bands include: LIGNITE, woody textured, dark brown, low strength, brittle, good core - unbroken, fissile.
				C2762	16.11	0.19	INFERIOR LIGNITE	Clayey, dark brown, firm, friable, good core - unbroken, rare resin aggregates; Additional features include: good core - unbroken, common bioturbation.
				C2762	16.22	0.11	INFERIOR LIGNITE	Clayey, dark brown - grey, firm, friable, good core - unbroken, common bioturbation.
				C2762	16.55	0.33	INFERIOR LIGNITE	Clayey, dark brown, firm, friable, good core - unbroken, common bioturbation;
								DEGREE OF BIOTURBATION INCREASES DOWN *
								SEQUENCE
				C2763	16.85	0.30	CLAY	Silty, light to medium grey - brown, firm, low plasticity (clay), good core - unbroken, gradational base, rare resin aggregates; Additional features include: good core - unbroken, common bioturbation.
				C2763	17.08	0.23	INFERIOR LIGNITE and CLAY	Intermixed 70:30. INFERIOR LIGNITE: clayey, dark brown, firm, friable, good core - unbroken, common bioturbation; CLAY: medium to dark brown - grey, firm, low plasticity (clay), good core - unbroken.
				C2763	17.10	0.02	CLAY	Light to medium brown - grey, firm, low plasticity (clay), good core - unbroken.
				C	17.17	0.07	CORE LOSS	
				C2764	17.24	0.07	CLAY	Ligneous, light to medium brown - grey, firm, low plasticity (clay), good core - unbroken, subfissile, rare woody fragments.

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STRAT NAME	SEQ NO.	SEAM NAME	WORK SECT	SAMPLE NUMBER	DEPTH (m)	THICK (m)	ROCK TYPE	GEOLOGICAL DESCRIPTION OF STRATA
				C2764	17.36	0.12	CLAY	Light to medium brown - grey; firm; low plasticity (clay); good core - unbroken.
				C2764	17.55	0.19	CLAY	Light to medium grey - brown; firm; low plasticity (clay); good core - unbroken; gradational base; occasional bioturbation; Additional features include: good core - unbroken; rare ligneous wisps; Additional features include: good core - unbroken; rare resin aggregates.
				C2764	17.66	0.11	CLAY	Ligneous; light to medium brown; firm; low plasticity (clay); good core - unbroken; gradational base.
				C2764	17.68	0.02	LIGNEOUS CLAY	Dark brown; firm; low plasticity (organic); good core - unbroken; subfissile; common ligneous wisps.
				C2765	17.73	0.05	INFERIOR LIGNITE	Clayey; medium to dark brown - black; firm; friable; good core - unbroken; subfissile.
				C2765	17.83	0.10	INFERIOR LIGNITE	Clayey; dark brown; firm; friable; good core - unbroken; common bioturbation; Bands include: CLAY; dark brown - grey; firm; low plasticity (clay); good core - unbroken.
				C2765	18.00	0.17	LIGNITE	Dark brown - black; firm; friable; good core - unbroken; common bioturbation.
				C2765	18.14	0.14	LIGNITE	Woody textured; dark brown - black; firm; friable; good core - unbroken; fissile; common bioturbation.
				C2765	18.25	0.11	LIGNITE	Clayey; dark brown; firm; friable; good core - unbroken; common bioturbation.
				C2765	18.29	0.04	LIGNITE	Clayey; dark brown; firm; friable; good core - unbroken; fissile; common bioturbation.
				C2765	18.35	0.06	INFERIOR LIGNITE	Clayey; dark brown - black; firm; friable; good core - unbroken; common bioturbation.
				C2765	18.38	0.03	INFERIOR LIGNITE	Clayey; dark brown - black; firm; friable; good core - unbroken; fissile; common bioturbation.

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STRAT NAME	SEQ NO.	SEAM NAME	WORK SECT	SAMPLE NUMBER	DEPTH (m)	THICK (m)	ROCK TYPE	GEOLOGICAL DESCRIPTION OF STRATA
				C2765	18.73	0.35	INFERIOR LIGNITE	Clayey; dark brown; firm; friable; good core - unbroken; common bioturbation; Additional features include: good core - unbroken; common woody fragments.
				C2765	18.75	0.02	INFERIOR LIGNITE	Clayey; dark brown; low strength; brittle; good core - unbroken; fissile.
				C2765	18.97	0.22	LIGNITE	Clayey; dark brown - black; firm; friable; good core - unbroken; common bioturbation.
				C2765	19.21	0.24	INFERIOR LIGNITE	Clayey; dark brown - black; firm; friable; good core - unbroken; common bioturbation.
				C2767	19.41	0.20	LIGNITE	Clayey; woody textured; dark brown; firm; friable; good core - unbroken; common woody fragments.
				C2767	19.78	0.37	INFERIOR LIGNITE	Clayey; dark brown; firm; friable; good core - unbroken; occasional woody fragments; Additional features include: good core - unbroken; occasional woody fragments.
				C2767	19.82	0.04	LIGNITE	Clayey; dark brown; firm; friable; good core - unbroken; fissile.
				C2767	20.12	0.30	LIGNITE	Dark brown; firm; friable; good core - unbroken; common bioturbation.
				C2768	20.17	0.05	LIGNEOUS CLAY	Dark brown; firm; low plasticity (organic); good core - unbroken; gradational base; common bioturbation.
				C2768	20.19	0.02	CLAY	Lignous; medium to dark brown - grey; firm; high plasticity (clay); good core - unbroken; gradational base.
				C2768	20.33	0.14	CLAY	Light to medium brown - grey; firm; high plasticity (clay); good core - unbroken; occasional bioturbation.
				C2768	20.38	0.05	CORE LOSS	
				C2768	20.60	0.22	CLAY	Light to medium brown - grey; firm; slickensides on fracture; high plasticity (clay); sparse; oblique joints; angle of joints 60 degrees; good core - unbroken; gradational base; occasional bioturbation.
				C2768	20.70	0.10	CLAY	Medium to dark brown - grey; firm; high plasticity (clay); good core - unbroken; occasional carbonaceous remains.

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STRAT NAME	SEQ NO.	SEAM NAME	WORK SECT	SAMPLE NUMBER	DEPTH (m)	THICK (m)	ROCK TYPE	GEOLOGICAL DESCRIPTION OF STRATA
				C2769	21.20	0.50	LIGNITE	Dark brown; firm; friable; good core - unbroken; occasional bioturbation.
				C2769	21.40	0.20	LIGNITE	Clayey; dark brown; firm; friable; good core - unbroken; occasional bioturbation.
				C2769	21.44	0.04	CLAY	Light to medium brown - grey; firm; high plasticity (clay); good core - unbroken; gradational base; common leaf fragments.
				C2769	21.84	0.40	LIGNITE	Dark brown - black; firm; friable; good core - unbroken; subfissile; rare resin aggregates; Additional features include: good core - unbroken; occasional bioturbation.
				C2769	21.94	0.10	LIGNITE	Dark brown - black; firm; friable; good core - unbroken; fissile; occasional bioturbation.
				C2769	21.97	0.03	LIGNITE	Clayey; dark brown - black; low strength; brittle; good core - unbroken; fissile; occasional bioturbation.
				C2769	22.34	0.37	LIGNITE	Dark brown - black; firm; friable; good core - unbroken; occasional bioturbation.
				C2769	22.36	0.02	LIGNITE	Woody textured; dark brown - black; low strength; brittle; good core - unbroken; fissile.
				C2769	22.42	0.06	INFERIOR LIGNITE	Clayey; dark brown; firm; friable; good core - unbroken; occasional bioturbation.
				C2769	22.53	0.11	INFERIOR LIGNITE	Clayey; medium to dark brown - black; firm; friable; good core - unbroken; gradational base; common bioturbation.
				C2769	22.56	0.03	INFERIOR LIGNITE	Clayey; dark brown - black; firm; friable; good core - unbroken; common bioturbation.
				C2769	22.58	0.02	LIGNITE	Clayey; dark brown; firm; friable; good core - unbroken; gradational base; common bioturbation.
				C2771	22.71	0.13	LIGNEOUS CLAY	Medium to dark brown; firm; friable; good core - unbroken; common bioturbation.
				C2771	22.94	0.23	CLAY	Ligneous; silty; medium to dark brown - grey; firm; low plasticity (clay); good core - unbroken; common bioturbation.

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STRAT NAME	SEQ NO.	SEAM NAME	WORK SECT	SAMPLE NUMBER	DEPTH (m)	THICK (m)	ROCK TYPE	GEOLOGICAL DESCRIPTION OF STRATA
				C2771	23.19	0.25	CLAY	Light to medium brown - grey; firm; high plasticity (clay), good core - unbroken; gradational base; common bioturbation; Additional features include: good core - unbroken, abundant ligneous wisps.
				C2771	23.40	0.21	CLAY	Light to medium grey - brown; firm; high plasticity (clay), good core - unbroken; gradational base; rare ligneous wisps.
				C2771	23.54	0.14	CLAY	Light to medium brown; firm; high plasticity (clay), good core - unbroken.
				C	24.11	0.57	CORE LOSS	
				C2772	24.14	0.03	CLAY	Light to medium grey; firm; high plasticity (clay); good core - unbroken.
				C2772	24.17	0.03	CLAY	Light to medium grey - brown; firm; high plasticity (clay), good core - unbroken; gradational base; rare ligneous wisps.
				C2772	24.23	0.06	CLAY	Light to medium brown - grey; firm; high plasticity (clay), good core - unbroken.
				C2772	24.26	0.03	CLAY	Light to medium grey - brown; firm; high plasticity (clay), good core - unbroken; gradational base; occasional woody fragments; Additional features include: good core - unbroken; rare ligneous wisps.
				C2772	24.64	0.38	CLAY	Silty; light to medium grey - brown; firm; high plasticity (clay); good core - unbroken; rare ligneous wisps.
				C2772	24.75	0.11	CLAY	Silty; light to medium brown - grey; firm; high plasticity (clay); good core - unbroken.
				C2772	25.11	0.36	CLAY	Light to medium brown - grey; firm; high plasticity (clay), good core - unbroken; sharp irregular base.
				C2773	25.17	0.06	INFERIOR LIGNITE	Clayey; woody textured; dark brown; firm; friable; good core - unbroken; fissile.
				C2773	25.45	0.28	INFERIOR LIGNITE	Clayey; dark brown - black; firm; friable; good core - unbroken; fissile; rare bioturbation; Additional features include: good core - unbroken; common woody fragments.

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STRAT NAME	SEQ NO.	SEAM NAME	WORK SECT	SAMPLE NUMBER	DEPTH (m)	THICK (m)	ROCK TYPE	GEOLOGICAL DESCRIPTION OF STRATA
				C2773	25.50	0.05	LIGNEOUS CLAY	Medium to dark brown; firm; low plasticity (organic); good core - unbroken; common woody fragments.
				C2773	25.60	0.10	INFERIOR LIGNITE	Clayey; dark brown; firm; friable; good core - unbroken; gradational base; common woody fragments.
				C2773	25.69	0.09	CLAY	Light to medium brown - grey; firm; low plasticity (clay); good core - unbroken; gradational base; rare resin aggregates.
				C2773	25.74	0.05	INFERIOR LIGNITE	Clayey; dark brown; firm; friable; good core - unbroken; occasional resin aggregates; Additional features include: good core - unbroken; rare bioturbation.
				C2773	26.15	0.41	LIGNITE	Medium to dark brown; firm; friable; good core - unbroken; gradational base; occasional bioturbation.
				C2773	26.20	0.05	LIGNITE	Clayey; woody textured; medium to dark brown; firm; friable; good core - unbroken; subfissile.
				C2773	26.26	0.06	LIGNITE	Dark brown; firm; friable; good core - unbroken; sharp planar base; beds dip at 30 degrees;
								WHOLE UNIT DIPS AT 30 DEGREES
				C2773	26.39	0.13	INFERIOR LIGNITE	Clayey; dark brown; firm; friable; good core - unbroken.
				C2773	26.45	0.06	INFERIOR LIGNITE	Clayey; dark brown - black; firm; friable; good core - unbroken; fissile; common woody fragments; Additional features include: good core - unbroken; occasional bioturbation.
				C2775	26.55	0.10	LIGNITE	Dark brown; firm; friable; good core - unbroken; fissile.
				C2775	26.57	0.02	INFERIOR LIGNITE	Clayey; woody textured; medium to dark brown; low strength; friable; good core - unbroken; rare resin aggregates.
				C2775	26.78	0.21	LIGNITE	Clayey; dark brown; firm; friable; good core - unbroken; occasional resin aggregates.
				C2776	26.81	0.03	LIGNITE	Woody textured; dark brown; firm; friable; good core - unbroken; subfissile.

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STRAT NAME	SEQ NO.	SEAM NAME	WORK SECT	SAMPLE NUMBER	DEPTH (m)	THICK (m)	ROCK TYPE	GEOLOGICAL DESCRIPTION OF STRATA
				C2776	26.93	0.12	LIGNITE	Dark brown; firm; friable; good core - unbroken; rare bioturbation.
				C2776	27.21	0.28	LIGNITE	Dark brown; firm; friable; good core - unbroken; rare bioturbation.
				C2777	27.73	0.52	LIGNITE	Dark brown; firm; friable; good core - unbroken; occasional woody fragments.
				C2777	27.80	0.07	LIGNITE	Woody textured; dark brown - black; firm; friable; good core - unbroken; fissile.
				C2777	28.42	0.62	LIGNITE	Dark brown; firm; friable; good core - unbroken; rare bioturbation; Additional features include: good core - unbroken; occasional woody fragments.
				C2778	28.45	0.03	LIGNITE	Woody textured; dark brown - black; low strength; brittle; good core - unbroken; fissile.
				C2778	28.65	0.20	LIGNITE	Dark brown - black; firm; friable; good core - unbroken; common bioturbation.
				C2779	28.68	0.03	LIGNITE	Clayey; dark brown - black; firm; friable; good core - unbroken.
				C2779	28.72	0.04	INFERIOR LIGNITE	Clayey; dark brown; firm; friable; good core - unbroken.
				C2779	28.91	0.19	LIGNITE	Dark brown; firm; friable; good core - unbroken; occasional bioturbation.
				C2779	28.99	0.08	LIGNEOUS CLAY	Medium to dark brown - grey; firm; low plasticity (organic); good core - unbroken; gradational base.
				C2779	29.07	0.08	INFERIOR LIGNITE	Clayey; dark brown; firm; friable; good core - unbroken.
				C2779	29.12	0.05	CLAY	Ligneous; light to medium brown - grey; firm; high plasticity (clay); good core - unbroken; gradational base; occasional bioturbation.
				C2780	29.33	0.21	LIGNITE	Dark brown; firm; friable; good core - unbroken; occasional bioturbation.
				C2781	29.38	0.05	INFERIOR LIGNITE	Clayey; medium to dark brown - grey; firm; friable; good core - unbroken; occasional bioturbation.

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STRAT NAME	SEQ NO.	SEAM NAME	WORK SECT	SAMPLE NUMBER	DEPTH (m)	THICK (m)	ROCK TYPE	GEOLOGICAL DESCRIPTION OF STRATA
				C2781	29.94	0.56	LIGNITE	Dark brown; firm; friable; good core - unbroken; fissile; occasional bioturbation.
				C2781	30.27	0.33	LIGNITE	Dark brown; firm; friable; good core - unbroken; fissile; common bioturbation.
				C2781	30.46	0.19	LIGNITE	Clayey; dark brown - black; firm; friable; good core - unbroken; gradational base; common bioturbation.
				C2782	30.49	0.03	CLAY	Sandy; quartzose; medium to dark brown; firm; low plasticity (clay); good core - unbroken; very fine grained; common resin aggregates.
				C2782	30.54	0.05	CLAY	Medium to dark brown; firm; low plasticity (clay); good core - unbroken; rare woody fragments.
				C2782	30.59	0.05	CLAY	Sandy, medium to dark brown; firm; low plasticity (clay); good core - unbroken; very fine grained; common woody fragments.
				C2782	30.88	0.29	CLAY	Light to medium brown - grey; firm; high plasticity (clay); good core - unbroken; rare bioturbation; Additional features include: good core - unbroken; rare woody fragments.
				C2782	30.98	0.10	CLAY	Light to medium grey - brown; firm; high plasticity (clay); good core - unbroken; rare bioturbation.
				C2782	31.73	0.75	CLAY	Silty; light to medium grey - brown; firm; high plasticity (clay); good core - unbroken; gradational base; rare lignoous wisps; Additional features include: good core - unbroken; common bioturbation.
				C2782	32.24	0.51	CLAY	Silty; light to medium brown - grey; firm; high plasticity (clay); good core - unbroken; occasional woody fragments.
				C2783	32.26	0.02	LIGNEOUS CLAY	Medium to dark brown - black; firm; low plasticity (organic); good core - unbroken; occasional woody fragments.
				C2783	32.30	0.04	INFERIOR LIGNITE	Clayey; dark brown - black; firm; low plasticity (organic); good core - unbroken; rare resin aggregates; Additional features include: good core - unbroken; common bioturbation.

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STRAT NAME	SEQ NO.	SEAM NAME	WORK SECT	SAMPLE NUMBER	DEPTH (m)	THICK (m)	ROCK TYPE	GEOLOGICAL DESCRIPTION OF STRATA
				C2783	32.51	0.21	LIGNITE	Dark brown - grey; firm; friable; good core - unbroken; gradational base; common bioturbation.
				C2783	32.59	0.08	INFERIOR LIGNITE	Clayey; dark brown - black; firm; friable; good core - unbroken; gradational base; INCREASED CLAY CONTENT TOWARDS BASE
				C2783	32.63	0.04	CLAY	Light to medium grey - brown; firm; high plasticity (clay); good core - unbroken.
				C2783	32.66	0.03	CLAY	Lignecus; medium to dark brown - grey; firm; high plasticity (clay); good core - unbroken; occasional bioturbation.
				C2783	33.04	0.38	CLAY	Light to medium brown; firm; high plasticity (clay); good core - unbroken; gradational base; common carbonaceous remains; Additional factures include: good core - unbroken; common bioturbation.
				C2783	33.18	0.14	LIGNITE	Dark brown - black; firm; friable; good core - unbroken; common bioturbation.
				C	34.78	1.60	CORE LOSS	

END OF BORE AT 34.78 m

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STRAT NAME	SEQ NO.	SEAM NAME	WORK SECT	SAMPLE NUMBER	DEPTH (m)	THICK (m)	ROCK TYPE	GEOLOGICAL DESCRIPTION OF STRATA
					0.30	0.30	SILT	Sandy; medium to dark brown; medium dense; non-plastic; common woody fragments.
					1.80	1.50	CLAY	Sandy; mottled buff - orange; firm; low plasticity (clay); WITH A TRACE OF GRAVEL
					1.90	0.10	GRAVEL	Medium to dark red - purple; medium dense; non-plastic; BUCKSHOT/IRONSTONE
					3.50	1.60	CLAY	Silty; mottled yellow - grey; firm; low plasticity (clay); Additional features include: pink; WITH STIFF LOW PLASTICITY BANDS
					3.90	0.10	IRONSTONE - UNDIFFERENTIATED	Medium to dark brown - yellow; low strength; brittle; CONCRETIONARY IRONSTONE; FERRICRETE
					5.00	1.10	CLAY	Kaolinitic; mottled grey - yellow; firm; high plasticity (clay); gradational base.
					7.00	2.00	CLAY	Silty; kaolinitic; mottled buff - grey; stiff; low plasticity (clay); Additional features include: yellow.
					9.35	2.35	CLAY	Light brown - grey; firm; high plasticity (clay).
					10.20	0.85	LIGNITE	Humified; woody textured; medium to dark black - brown; firm; friable.
					10.60	0.40	INFERIOR LIGNITE	Humified; woody textured; medium to dark brown; firm; friable.
					11.70	1.10	LIGNITE	Humified; woody textured; medium to dark black - brown; firm; friable; Bands include: LIGNEOUS CLAY; medium to dark brown; firm; low plasticity (organic).

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STRAT NAME	SEQ NO.	SEAM NAME	WORK SECT	SAMPLE NUMBER	DEPTH (m)	THICK (m)	ROCK TYPE	GEOLOGICAL DESCRIPTION OF STRATA
					0.30	0.30	SILT	Sandy; medium to dark brown; medium dense; non-plastic; common woody fragments.
					1.80	1.50	CLAY	Sandy; mottled buff - orange; firm; low plasticity (clay); WITH A TRACE OF GRAVEL
					1.90	0.10	GRAVEL	Medium to dark red - purple; medium dense; non-plastic; BUCKSHOT/IRONSTONE
					3.50	1.60	CLAY	Silty; mottled yellow - grey; firm; low plasticity (clay); Additional features include: pink; WITH STIFF LOW PLASTICITY BANDS
					3.90	0.40	IRONSTONE - UNDIFFERENTIATED	Medium to dark brown - yellow; low strength; brittle; CONCRETIONARY IRONSTONE; FERRICRETE
					5.00	1.10	CLAY	Kaolinitic; mottled grey - yellow; firm; high plasticity (clay); gradational base.
					7.00	2.00	CLAY	Silty; kaolinitic; mottled buff - grey; stiff; low plasticity (clay); Additional features include: yellow.
					9.35	2.35	CLAY	Light brown - grey; firm; high plasticity (clay).
					10.20	0.85	LIGNITE	Humified; woody textured; medium to dark black - brown; firm; friable.
					10.60	0.40	INFERIOR LIGNITE	Humified; woody textured; medium to dark brown; firm; friable.
					11.70	1.10	LIGNITE	Humified; woody textured; medium to dark black - brown; firm; friable; Bands include: LIGNEOUS CLAY; medium to dark brown; firm; low plasticity (organic).

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STRAT NAME	SEQ NO.	SEAM NAME	WORK SECT	SAMPLE NUMBER	DEPTH (m)	THICK (m)	ROCK TYPE	GEOLOGICAL DESCRIPTION OF STRATA
					12.20	0.50	INFERIOR LIGNITE	Humified, medium to dark brown, firm, friable; Bands include: LIGNEOUS CLAY, medium to dark brown, firm, low plasticity (organic).
					12.95	0.75	LIGNEOUS CLAY	Medium to dark brown, firm, low plasticity (organic).
					14.00	1.05	INFERIOR LIGNITE	Humified, gelatinous, medium to dark brown, soft.
					14.20	0.20	INFERIOR LIGNITE	Humified, woody textured, medium to dark brown, firm, friable.
					14.40	0.20	LIGNITE	Humified, woody textured, medium to dark black - brown, firm, friable.
					14.70	0.30	INFERIOR LIGNITE	Humified, woody textured, medium to dark brown, firm, friable.
					15.50	0.80	LIGNEOUS CLAY	Medium to dark brown, firm, low plasticity (organic); Bands include: INFERIOR LIGNITE, humified, clayey, medium to dark brown, firm, friable; Bands include: CLAY, carbonaceous, medium to dark grey - brown, firm, high plasticity (clay), common ligneous wisps.
					16.05	0.55	INFERIOR LIGNITE	Humified, medium to dark brown - black, firm, friable.
					17.10	1.05	LIGNITE	Humified, dark black - brown, firm, friable; Bands include: INFERIOR LIGNITE, clayey, medium to dark brown - black, firm, friable; Bands include: LIGNEOUS CLAY, medium to dark brown, firm, low plasticity (organic).
					17.55	0.45	INFERIOR LIGNITE	Medium to dark brown - black, firm, friable.
					17.95	0.40	LIGNITE	Humified, dark black - brown, firm, friable.
					18.55	0.60	LIGNEOUS CLAY	Humified, medium to dark brown, firm, low plasticity (organic); Bands include: CLAY, carbonaceous, medium to dark grey - brown, firm, high plasticity (clay).
					19.00	0.45	INFERIOR LIGNITE	Medium to dark brown - black, firm, friable.
					19.30	0.30	LIGNEOUS CLAY	Medium to dark brown, firm, low plasticity (organic).

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STRAT NAME	SEQ NO.	SEAM NAME	WORK SECT	SAMPLE NUMBER	DEPTH (m)	THICK (m)	ROCK TYPE	GEOLOGICAL DESCRIPTION OF STRATA
					21.10	1.80	INFERIOR LIGNITE and LIGNEOUS CLAY	Interbedded 80:20. INFERIOR LIGNITE: humified; dark black - brown; firm; friable; LIGNEOUS CLAY: medium to dark brown; firm; low plasticity (organic); Bands include: INFERIOR LIGNITE; humified; clayey; medium to dark brown; firm; friable.
					21.75	0.65	INFERIOR LIGNITE	Clayey; medium to dark brown; firm; friable.
					22.80	1.05	CLAY	Carbonaceous; medium to dark brown - grey; firm; high plasticity (clay); abundant ligneous wisps; Bands include: LIGNITE; medium to dark black - brown; firm; friable; Bands include: LIGNEOUS CLAY; medium to dark brown; firm; low plasticity (organic).
					24.10	1.30	LIGNITE	Humified; dark black - brown; firm; friable; Bands include: LIGNEOUS CLAY; medium to dark brown; firm; low plasticity (organic).
					25.00	0.90	LIGNITE and LIGNEOUS CLAY	Interbedded 80:20. LIGNITE: humified; dark black - brown; firm; friable; LIGNEOUS CLAY: medium to dark brown; firm; low plasticity (organic).
					25.70	0.70	INFERIOR LIGNITE	Dark brown; firm; friable.
					26.35	0.65	LIGNITE	Humified; dark black - brown; firm; friable.
					26.80	0.45	INFERIOR LIGNITE	Dark brown; firm; friable.
					29.85	3.05	SAND	Clayey; ligneous; medium to dark brown; medium dense; non-plastic; fining upwards; abundant woody fragments; Additional features include: quartzose; abundant ligneous wisps; Bands include: CLAY; carbonaceous; medium to dark brown - grey; firm; high plasticity (clay); common ligneous wisps; Bands include: CLAY; light to medium grey - brown; firm; high plasticity (clay).
					30.30	0.45	LIGNEOUS CLAY	Medium to dark brown; firm; low plasticity (organic).
					30.90	0.60	INFERIOR LIGNITE	Dark brown; firm; friable.
					31.40	0.50	LIGNITE	Humified; dark black - brown; firm; friable.

STRAT NAME	SEQ NO.	SEAM NAME	WORK SECT	SAMPLE NUMBER	DEPTH (m)	THICK (m)	ROCK TYPE	GEOLOGICAL DESCRIPTION OF STRATA
					33.80	2.40	INFERIOR LIGNITE	Dark brown, firm, friable; Bands include: LIGNEOUS CLAY, medium to dark brown, firm, low plasticity (organic); Bands include: CLAY, carbonaceous, medium to dark brown - grey, firm, high plasticity (clay).
					36.85	3.05	CLAY	Carbonaceous, medium to dark brown - grey, firm, high plasticity (clay).
					37.30	0.45	SAND	Ligneous, quartzose, medium to dark brown, medium dense, non-plastic.
					38.20	0.90	INFERIOR LIGNITE	Sandy, quartzose, medium to dark brown, firm, friable; Additional features include: humified, clayey.
					38.55	0.35	CLAY	Medium to dark brown - grey, firm, high plasticity (clay).
					40.20	1.65	INFERIOR LIGNITE	Humified, clayey, medium to dark brown, firm, friable; Bands include: CLAY, carbonaceous, medium to dark brown - grey, firm, high plasticity (clay), common woody fragments; Bands include: LIGNEOUS CLAY, medium to dark brown, firm, low plasticity (organic).
					47.20	7.00	CLAY	Carbonaceous, medium to dark brown, firm, high plasticity (clay), gradational base, common woody fragments; Additional features include: abundant ligneous wisps; Bands include: CLAY, ligneous, medium to dark brown, firm, low plasticity (clay); Bands include: INFERIOR LIGNITE, humified, clayey, medium to dark brown, firm, friable.
					47.85	0.65	CLAY	Light to medium grey - brown, firm, high plasticity (clay).
					49.60	1.75	CLAY	Carbonaceous, medium to dark brown, firm, high plasticity (clay).
					60.30	10.70	SAND	Quartzose, light to medium grey, medium dense, non-plastic, fine and medium grained, poorly sorted, subrounded, equant, fining upwards, common woody fragments; Additional features include: rounded, common ligneous fragments.

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771189

STRAT NAME	SEQ NO.	SEAM NAME	WORK SECT	SAMPLE NUMBER	DEPTH (m)	THICK (m)	ROCK TYPE	GEOLOGICAL DESCRIPTION OF STRATA
					62.80	2.50	SAND	Quartzose; light to medium grey; medium dense; non-plastic; fine and medium grained; poorly sorted; subrounded; equant; coarsening upwards; common woody fragments; Additional features include; rounded; common lisneous fragments.
					63.50	0.70	CLAY	Light to medium brown - grey; firm; high plasticity (clay); gradational base.
					67.50	4.00	SAND	Quartzose; woody textured; light to medium grey; medium dense; non-plastic; fine and medium grained; abundant lisneous fragments; WOOD NOT HUMIFIED; FIBROUS TEXTURE
					69.80	2.30	SAND	Quartzose; clayey; light to medium grey; medium dense; non-plastic; fine grained.
					70.90	1.10	SAND	Quartzose; woody textured; light to medium grey; medium dense; non-plastic; fine and medium grained.
					71.14	0.24	LIGNITE	Woody textured; medium to dark brown; firm; friable; fibrous.
					72.15	1.01	SIDERITE	Light grey; high strength; tough.
					80.00	7.85	SAND	Quartzose; clayey; light to medium grey; medium dense; non-plastic; fine grained.
					END OF BORE AT	80.00 m		

EL2080 LAUNCESTON. R0020

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721190

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EL2080 LAUNCESTON. R0021
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Eastins: 493600.000
Northins: 5412360.000
Grid Type: Australian Mapping Grid
Accuracy: Approximate
Grl: 175.00
Datum: Approximate Level - Not Surveyed
Sheet Reference:
Sheet Index:
Total Depth: 83.20
Drillins Commenced: 09/11/81
Drillins Completed: 09/11/81
Inclination:
Azimuth:
Standins Water Level: 3.9

Available Data: Gamma Logs
Density Logs
Resistivity Logs
Caliper Logs

Loggins Organisation: CSR Exploration and Evaluation Group
Logged By: ELLIS
Drilling Contractor: H.J. Steeneole
Geophysical Loggins: Murdoch Geophysics

County:
Parish:
Portion:

Plug Depths:
Hole Diameter: 150
Core Diameter:
Cased Depths:
Core Barrel:

Drill Bits: Blades

ALL ROCKS ARE FRESH UNLESS OTHERWISE INDICATED

STRAT NAME	SEQ NO.	SEAM NAME	WORK SECT	SAMPLE NUMBER	DEPTH (m)	THICK (m)	ROCK TYPE	GEOLOGICAL DESCRIPTION OF STRATA
					0.50	0.50	CLAY	Bentonitic; medium to dark brown; firm; high plasticity (clay), gradational base; Bands include: CLAY; medium to dark brown; stiff; high plasticity (clay).
					2.50	2.00	CLAY	Mottled cream - yellow; stiff; high plasticity (clay), gradational base.
					3.20	0.70	CLAY	Mottled white - cream; very stiff; high plasticity (clay), gradational base.
					5.00	1.80	CLAY	Mottled white - cream; firm; high plasticity (clay), gradational base.
					7.85	2.85	CLAY	Silty, mottled cream - yellow; firm; high plasticity (clay).
					8.50	0.65	LIGNITE	Dark black - brown; firm; friable.
					9.05	0.55	INFERIOR LIGNITE	Clayey; dark black - brown; firm; friable; occasional woody fragments.
					10.30	1.25	LIGNITE	Clayey; dark black - brown; firm; friable; common woody fragments.
					12.70	2.40	CLAY	Light grey - white; firm; high plasticity (clay).
					13.45	0.75	INFERIOR LIGNITE	Peaty; woody textured; dark black - brown; firm; friable; fibrous.
					15.10	1.65	LIGNEOUS CLAY	Medium to dark brown; firm; low plasticity (organic).
					16.90	1.80	CLAY	Carbonaceous; light to medium brown - grey; firm; high plasticity (clay).
					17.90	1.00	INFERIOR LIGNITE	Peaty; woody textured; medium to dark black - brown; firm; friable.
					21.70	3.80	CLAY	Carbonaceous; light to medium brown - grey; firm; high plasticity (clay).
					23.00	1.30	CLAY	Carbonaceous; silty; light to medium grey - brown; firm; high plasticity (clay).
					28.30	5.30	CLAY	Light to medium white; firm; high plasticity (clay).
					29.50	1.20	SIDERITE	Light to medium brown; low strength; brittle.

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7719192

STRAT NAME	SEQ NO.	SEAM NAME	WORK SECT	SAMPLE NUMBER	DEPTH (m)	THICK (m)	ROCK TYPE	GEOLOGICAL DESCRIPTION OF STRATA
					30.90	1.40	CLAY	Light to medium white; firm; high plasticity (clay);
								CHANGED DRILLING MUD AT 32.0 METRES
					36.15	5.25	SILT	Sandy, clayey, light to medium grey, medium dense, non-plastic, occasional ligneous fragments.
					39.90	3.75	LIGNITE	Woody textured; resty; medium to dark black - brown; firm, friable, fibrous.
					40.45	0.55	LIGNEOUS CLAY	Medium to dark brown; firm; low plasticity (organic).
					40.70	0.25	LIGNITE	Medium to dark black - brown; firm; friable.
					41.10	0.40	INFERIOR LIGNITE	Medium to dark brown - black; firm; friable.
					41.70	0.60	LIGNITE	Woody textured; resty; medium to dark black - brown; firm; friable.
					43.40	1.70	CLAY	Woody textured; medium to dark black - brown; firm; high plasticity (clay); abundant woody fragments.
					43.90	0.50	INFERIOR LIGNITE	Medium to dark brown - black; firm; friable.
					45.20	1.30	LIGNEOUS CLAY	Medium to dark brown; firm; low plasticity (organic).
					48.75	3.55	CLAY	Sandy, medium to dark brown - grey; firm; low plasticity (clay).
					49.30	0.55	SIDERITE	Light to medium brown; low strength; brittle.
					53.20	3.90	CLAY	Carbonaceous; light to medium brown - grey; firm; low plasticity (clay).
					57.70	4.50	INFERIOR LIGNITE	Medium to dark brown; firm; friable;
								INTERPRETED FROM GP LOG AS INFERIOR LIGNITE *
								LOGGED FROM CUTTINGS AS CARB. CLAY
					61.10	3.40	CLAY	Light to medium grey; soft; low plasticity (clay).
					61.60	0.50	SIDERITE	Light to medium brown; low strength; brittle.

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077193

STRAT NAME	SEQ NO.	SEAM NAME	WORK SECT	SAMPLE NUMBER	DEPTH (m)	THICK (m)	ROCK TYPE	GEOLOGICAL DESCRIPTION OF STRATA
					63.00	1.40	CLAY	Carbonaceous; light to medium brown - grey, firm, low plasticity (clay).
					64.80	1.80	LIGNITE	Clayey, medium to dark brown - black, firm, friable.
					65.50	0.70	INFERIOR LIGNITE	Clayey, medium to dark brown - black, firm, friable.
					67.00	1.50	LIGNITE	Clayey, medium to dark brown - black, firm, friable.
					68.10	1.10	INFERIOR LIGNITE	Clayey, medium to dark brown - black, firm, friable.
					83.20	15.10	CLAY	Medium to dark brown, firm, low plasticity (clay);

THE INTERVAL 50.0 METRES TO TOTAL DEPTH *

WAS CHARACTERIZED BY POOR SAMPLE RETUR *
N WHILST DRILLING. SOME LIGNITE WAS *
LOGGED AT 63.0 METRES, BUT NOT THE *
THICKNESS INDICATED BY THE GEOPHYSICAL *
LOG. *
NOTE ANOMOLOUS GAMMA VS DENSITY RESPON *
SES ON GEOPHYSICAL LOGS.

END OF BORE AT 83.20 m

EL2080 LAUNCESTON. R0021

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771194

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EL2080 LAUNCESTON. C0021
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Easting:	403630.000	Logging Organisation:	CSR Exploration and Evaluation Group
Northing:	5412350.000	Logged By:	HINRICHS
Grid Type:	Australian Mapping Grid	Drilling Contractor:	H.J. Stacpoole
Accuracy:	Approximate	Geophysical Logging:	Murdoch Geophysics
Crl:	175.00		
Datum:	Approximate Level - Not Surveyed		
Sheet Reference:		County:	
Sheet Index:		Parish:	
Total Depth:	9.76	Portion:	
Drilling Commenced:	04/12/81		
Drilling Completed:	04/12/81		
Inclination:		Plug Depths:	
Azimuth:		Hole Diameter:	150
Standing Water Level:	11.6	Core Diameter:	100
		Cased Depths:	
		Core Barrel:	Triefus Triple Barrel
Available Data:	Gamma Logs		
	Density Logs		
	Resistivity Logs	Drill Bits:	Rollers
	Caliper Logs		

ALL ROCKS ARE FRESH UNLESS OTHERWISE INDICATED

7711195

STRAT NAME	SEQ NO.	SEAM NAME	WORK SECT	SAMPLE NUMBER	DEPTH (m)	THICK (m)	ROCK TYPE	GEOLOGICAL DESCRIPTION OF STRATA
				R	7.00	7.00	NO RECORD	
				C	8.24	1.24	CORE LOSS	
								CORE BARREL DROPPED RAPIDLY THROUGH FIRST 1.5 *
								METRES OF RUN. SUSPECT A CAVITY BECAUSE * LOSING CIRCULATION TO ADJACENT ROTARY * HOLE
				C2821	8.61	0.37	CLAY	Light to medium yellow - grey; firm; slickensides on fracture; high plasticity (clay); sparse; oblique joints; angle of joints 50 degrees; good core - unbroken; gradational base; rare ligneous wisps; Additional features include: cream; occasional bioturbation.
				C2822	8.64	0.03	CLAY	Ligneous; mottled brown - grey; firm; high plasticity (clay); good core - unbroken; occasional bioturbation.
				C2822	8.70	0.06	LIGNEOUS CLAY	Mottled brown - black; firm; high plasticity (organic); good core - unbroken; occasional bioturbation; MOTTLED DARK BROWN BLACK
				C2822	8.71	0.01	CLAY	Medium to dark brown; firm; high plasticity (clay); good core - unbroken.
				C2822	8.85	0.14	LIGNEOUS CLAY	Dark brown - black; firm; high plasticity (organic); good core - unbroken; gradational base; abundant ligneous wisps; Additional features include: good core - unbroken; occasional bioturbation.
				C2822	9.02	0.17	LIGNEOUS CLAY	Medium to dark black - brown; firm; high plasticity (organic); good core - unbroken; gradational base; occasional bioturbation; Additional features include: good core - unbroken; abundant ligneous wisps.
				C2822	9.06	0.04	CLAY	Ligneous; medium to dark brown - grey; firm; high plasticity (clay); good core - unbroken.
				C2822	9.17	0.11	CLAY	Ligneous; dark brown - grey; firm; high plasticity (clay); good core - unbroken; rare ligneous wisps; Additional features include: good core - unbroken; occasional bioturbation.

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2741196

REPORT TC14-01 THIESS COAL SYSTEM PAGE 18 11/ 6/82 16:28:01

STRAT NAME	SEQ NO.	SEAM NAME	WORK SECT	SAMPLE NUMBER	DEPTH (m)	THICK (m)	ROCK TYPE	GEOLOGICAL DESCRIPTION OF STRATA
				C2822	9.19	0.02	LIGNEOUS CLAY	Dark brown - black; firm; low plasticity (organic); good core - unbroken;
								CLAY IS ALMOST FRIABLE; LOW STRENGTH
				C2822	9.23	0.04	INFERIOR LIGNITE	Clayey; dark brown; firm; low plasticity (organic); good core - unbroken.
				C2822	9.26	0.03	CLAY	Light to medium brown - grey; firm; high plasticity (clay); good core - unbroken.
				C2822	9.27	0.01	LIGNITE	Woody textured; dark brown - black; firm; friable; good core - unbroken; abundant woody fragments.
				C2822	9.31	0.04	CLAY	Medium to dark brown - grey; firm; high plasticity (clay); good core - unbroken.
				C2822	9.36	0.05	LIGNITE	Dark brown - black; firm; friable; good core - unbroken; subfissile; rare resin aggregates.
				C2822	9.56	0.20	INFERIOR LIGNITE	Clayey; dark brown - black; firm; friable; good core - unbroken; fissile; occasional bioturbation; Additional features include: good core - unbroken; abundant woody fragments.
				C2822	9.69	0.13	LIGNITE	Clayey; dark brown - black; firm; coal clast; friable; sparse; subvertical joints; vertical joints; good core - unbroken; occasional bioturbation.
				C2822	9.72	0.03	LIGNEOUS CLAY	Dark brown; firm; low plasticity (organic); good core - unbroken.
				C2822	9.76	0.04	INFERIOR LIGNITE	Clayey; dark brown - grey; firm; friable; good core - unbroken; occasional bioturbation;
								HOLE ABANDONED DUE TO CIRCULATION LOSS *
								TO ADJACENT ROTARY HOLE

END OF BORE AT 9.76 m

EL2080 LAUNCESTON. C0021

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77119?

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EL2080 LAUNCESTON. C0022
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Easting: 495020.000
Northing: 5413740.000
Grid Type: Australian Mapping Grid
Accuracy: Approximate
Grl: 145.00
Datum: Approximate Level - Not Surveyed
Sheet Reference:
Sheet Index:
Total Depth: 63.55
Drilling Commenced: 25/11/81
Drilling Completed: 28/11/81
Inclination:
Azimuth:
Standing Water Level: 3.3

Available Data: Gamma Logs
Density Logs
Resistivity Logs
Caliper Logs

Logging Organisation: CSR Exploration and Evaluation Group
Logged By: HINRICHS
Drilling Contractor: H.J. Stacpoole
Geophysical Logging: Murdoch Geophysics

County:
Parish:
Portion:

Plug Depths:
Hole Diameter: 180
Core Diameter: 100
Cased Depths:
Core Barrel: Triefus Triple Barrel

Drill Bits: Rollers

ALL ROCKS ARE FRESH UNLESS OTHERWISE INDICATED

7711198

133

STRAT NAME	SEQ NO.	SEAM NAME	WORK SECT	SAMPLE NUMBER	DEPTH (m)	THICK (m)	ROCK TYPE	GEOLOGICAL DESCRIPTION OF STRATA
					8.50	8.50	NO RECORD	
								180 MM HOLE DRILLED SO CORE BARREL *
								CLEARS HOLE WALLS
TE					8.54	0.04	CORE LOSS	
TE				C2635	8.68	0.14	CLAY	Carbonaceous; light to medium brown - grey; firm; low plasticity (clay); good core - unbroken; gradational base;
								INCREASED CARBONACEOUS CONTENT *
								TOWARDS BASE
TE				C2635	8.72	0.04	CLAY	Carbonaceous; medium to dark grey - brown; firm; low plasticity (clay); good core - unbroken; gradational base.
TE				C2635	8.81	0.09	CLAY	Carbonaceous; ligneous; medium to dark black - brown; firm; high plasticity (clay); good core - unbroken; gradational base;
								LOW STRENGTH CLAY,CRUMBLES READILY
TE				C2635	8.84	0.03	CLAY	Carbonaceous; medium to dark grey - brown; firm; low plasticity (clay); good core - unbroken.
TE				C2636	8.88	0.04	INFERIOR LIGNITE	Clayey; medium to dark black - brown; firm; friable; good core - unbroken.
TE				C2636	8.91	0.03	INFERIOR LIGNITE	Dark black - brown; firm; friable; good core - unbroken; fissile;
								CLAY CONTENT LESS THAN PREVIOUS *
								UNIT
TE				C2636	8.93	0.02	INFERIOR LIGNITE	Clayey; dark brown - black; firm; friable; good core - unbroken; subfissile; gradational base.
TE				C2636	8.98	0.05	CLAY	Carbonaceous; light to medium brown - black; firm; low plasticity (clay); good core - unbroken; gradational base.
TE				C2636	9.06	0.08	INFERIOR LIGNITE	Clayey; dark black - brown; firm; friable; good core - unbroken.

771199

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STRAT NAME	SEQ NO.	SEAM NAME	WORK SECT	SAMPLE NUMBER	DEPTH (m)	THICK (m)	ROCK TYPE	GEOLOGICAL DESCRIPTION OF STRATA
TE				C2636	9.18	0.12	CLAY	Carbonaceous; light to medium brown - black; firm; low plasticity (clay); good core - unbroken.
TE				C2636	9.19	0.01	LIGNEOUS CLAY	Dark brown; firm; low plasticity (organic); good core - unbroken.
TE				C2637	9.46	0.27	INFERIOR LIGNITE	Clayey; medium to dark brown - black; firm; friable; good core - unbroken.
TE				C2637	9.57	0.11	LIGNITE	Woody textured; medium to dark black - brown; firm; friable; core crushed.
TE				C2638	9.61	0.04	INFERIOR LIGNITE	Clayey; dark brown - black; firm; coal cleat; low plasticity (organic); sparse; subvertical joints; vertical joints; core crushed.
TE				C2638	9.70	0.09	LIGNITE	Woody textured; clayey; medium to dark black - brown; firm; friable; core crushed.
TE				C2638	9.81	0.11	INFERIOR LIGNITE	Clayey; dark brown - black; firm; low plasticity (organic); good core - unbroken.
TE				C2638	9.84	0.03	LIGNEOUS CLAY	Dark brown; firm; low plasticity (organic); good core - unbroken.
TE				C2638	9.90	0.06	INFERIOR LIGNITE	Woody textured; clayey; medium to dark brown; firm; friable; good core - unbroken.
TE				C2639	10.03	0.13	INFERIOR LIGNITE	Clayey; dark brown; firm; low plasticity (organic); good core - unbroken; sharp planar base; beds dip at 05 degrees.
TE				C2639	10.05	0.02	CLAY	Lignceous; light to medium grey - brown; firm; low plasticity (clay); good core - unbroken; sharp planar base; beds dip at 05 degrees.
TE				C2639	10.34	0.29	INFERIOR LIGNITE	Dark brown; firm; friable; good core - unbroken; sharp planar base; beds dip at 05 degrees; rare resin aggregates.
TE				C2639	10.35	0.01	CLAY	Lignceous; light to medium brown - grey; firm; low plasticity (clay); good core - unbroken; sharp planar base; beds dip at 05 degrees.
TE				C2639	10.49	0.14	LIGNITE	Humified; medium to dark brown - black; firm; friable; good core - unbroken; sharp planar base; beds dip at 05 degrees.

7721200

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STRAT NAME	SEQ NO.	SEAM NAME	WORK SECT	SAMPLE NUMBER	DEPTH (m)	THICK (m)	ROCK TYPE	GEOLOGICAL DESCRIPTION OF STRATA
TE				C2639	10.64	0.15	LIGNEOUS CLAY	Dark brown, firm, high plasticity (organic), good core - unbroken, gradational base.
TE				C2640	10.86	0.22	INFERIOR LIGNITE	Clayey, dark brown, firm, friable, good core - unbroken, gradational base.
TE				C2640	11.27	0.41	LIGNITE	Humified, dark brown, firm, friable, good core - unbroken, gradational base.
TE				C2640	11.32	0.05	INFERIOR LIGNITE	Clayey, medium to dark brown, firm, friable, good core - unbroken.
TE				C2641	11.53	0.21	INFERIOR LIGNITE	Clayey, humified, medium to dark black - brown, soft, coal cleat, common, subvertical joints, vertical joints, good core - unbroken, subfissile;
								GELATINOUS, HIGHER APPARENT MOISTURE *
								CONTENT THAN PREVIOUS LIGNITES
TE				C2641	11.64	0.11	INFERIOR LIGNITE	Humified, clayey, medium to dark black - brown, soft, coal cleat, common, subvertical joints, vertical joints, good core - unbroken;
								GELATINOUS LIGNITE
TE				C2642	11.67	0.03	LIGNEOUS CLAY	Medium to dark brown - grey, firm, low plasticity (organic), good core - unbroken.
TE				C2642	11.76	0.09	INFERIOR LIGNITE	Humified, medium to dark black - brown, soft, good core - unbroken;
								GELATINOUS LIGNITE, SOFT GELATINOUS *
								HUMIC LIGNITES HAVE A HIGHER * APPARENT MOISTURE CONTENT THAN * FIRM FRIABLE LIGNITE
TE				C2642	11.95	0.19	INFERIOR LIGNITE	Clayey, medium to dark black - brown, firm, friable, good core - unbroken.
TE				C2642	11.97	0.02	LIGNITE	Woody textured, medium to dark brown, firm, friable, good core - unbroken, fissile.

EL2080 LAUNCESTON. C0022

771201

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STRAT NAME	SEQ NO.	SEAM NAME	WORK SECT	SAMPLE NUMBER	DEPTH (m)	THICK (m)	ROCK TYPE	GEOLOGICAL DESCRIPTION OF STRATA
TE				C2642	12.04	0.07	INFERIOR LIGNITE	Clayey; humified; medium to dark black - brown; soft; good core - unbroken;
								GELATINOUS LIGNITE
TE				C2642	12.05	0.01	LIGNITE	Woody textured; medium to dark brown - black; firm; friable; good core - unbroken; fissile.
TE				C2642	12.09	0.04	LIGNEOUS CLAY	Dark brown; firm; low plasticity (organic).
TE				C2642	12.15	0.06	INFERIOR LIGNITE	Clayey; dark brown; firm; friable.
TE				C2643	12.27	0.12	LIGNITE	Medium to dark black - brown; firm; friable; gradational base.
TE				C2643	12.41	0.14	LIGNITE	Medium to dark black - brown; firm; friable; gradational base;
								APPARENT HIGHER MOISTURE CONTENT *
								THAN PREVIOUS UNIT
TE				C2643	12.53	0.12	INFERIOR LIGNITE	Humified; clayey; dark black - brown; soft; friable; subfissile; sharp planar base; beds dip at 00 degrees;
								FRIABLE TO LOW PLASTICITY LIGNITE
TE				C2644	12.56	0.03	LIGNEOUS CLAY	Dark brown - black; firm; high plasticity (organic); good core - unbroken; sharp planar base.
TE				C2644	12.59	0.03	INFERIOR LIGNITE	Humified; clayey; dark black - brown; soft; friable; good core - unbroken; subfissile; sharp planar base;
								FRIABLE TO LOW PLASTICITY LIGNITE
TE				C2644	12.62	0.03	LIGNITE	Humified; dark black - brown; firm; friable; good core - unbroken;
								SOME WOODY TEXTURE DEVELOPED

EL2080 LAUNCESTON. C0022

7711202

STRAT NAME	SEQ NO.	SEAM NAME	WORK SECT	SAMPLE NUMBER	DEPTH (m)	THICK (m)	ROCK TYPE	GEOLOGICAL DESCRIPTION OF STRATA
TE				C2644	12.84	0.22	INFERIOR LIGNITE	Humified, clayey, dark black - brown, soft, friable, good core - unbroken, subfissile; FRIABLE TO PUGGY LIGNITE
TE				C2644	12.87	0.03	LIGNITE	Woody textured, dark brown - black, firm, friable, good core - unbroken.
TE				C2644	13.16	0.29	INFERIOR LIGNITE	Humified, dark black - brown, soft, good core - unbroken, subfissile; GELATINOUS, APPROX 20% WOODY BANDS
TE				C2644	13.27	0.11	INFERIOR LIGNITE	Humified, dark black - brown, firm, good core - unbroken; GELATINOUS LIGNITE
TE				C2645	13.38	0.11	LIGNEOUS CLAY	Medium to dark brown - black, firm, low plasticity (organic), good core - unbroken.
TE				C2645	13.41	0.03	LIGNITE	Woody textured, dark black - brown, firm, friable, core crushed.
TE				C2645	13.48	0.07	INFERIOR LIGNITE	Clayey, medium to dark brown, firm, friable, good core - unbroken.
TE				C2645	13.65	0.17	LIGNEOUS CLAY	Medium to dark brown, firm, high plasticity (organic), good core - unbroken.
TE				C2645	13.83	0.18	INFERIOR LIGNITE	Clayey, medium to dark brown, firm, friable, good core - unbroken; sharp planar base; beds dip at 00 degrees.
TE				C2645	13.90	0.07	LIGNEOUS CLAY	Medium to dark brown, firm, low plasticity (organic), good core - unbroken.
TE				C2645	13.98	0.08	INFERIOR LIGNITE	Clayey, medium to dark black - brown, firm, friable, good core - unbroken; gradational base.

EL2080 LAUNCESTON. C0022

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771203

STRAT NAME	SEQ NO.	SEAM NAME	WORK SECT	SAMPLE NUMBER	DEPTH (m)	THICK (m)	ROCK TYPE	GEOLOGICAL DESCRIPTION OF STRATA
TE				C2645	14.07	0.09	INFERIOR LIGNITE	Clayey; medium to dark brown; firm; friable; good core - unbroken;
								INCREASED CLAY CONTENT OVER *
								PREVIOUS UNIT
TE				C2646	14.49	0.12	LIGNITE	Medium to dark black - brown; firm; friable; good core - unbroken.
TE				C2646	14.64	0.15	INFERIOR LIGNITE	Clayey; medium to dark brown - black; firm; friable; good core - unbroken; sharp planar base; beds dip at 00 degrees.
TE				C2646	14.72	0.08	INFERIOR LIGNITE	Clayey; medium to dark brown; firm; friable; good core - unbroken; gradational base.
TE				C2646	14.96	0.24	LIGNITE	Medium to dark brown - black; firm; friable; good core - unbroken.
TE				C2647	15.06	0.10	INFERIOR LIGNITE	Clayey; medium to dark brown - black; firm; friable; good core - unbroken.
TE				C2647	15.31	0.25	LIGNITE	Clayey; medium to dark black - brown; firm; friable; good core - unbroken.
TE				C2648	15.40	0.09	LIGNITE	Humified; dark brown; firm; brittle; good core - unbroken; fissile;
								SLIGHTLY CLAYEY LIGNITE
TE				C2648	15.48	0.08	INFERIOR LIGNITE	Clayey; dark brown - black; soft; friable; good core - unbroken; fissile.
TE				C2648	15.63	0.15	LIGNITE	Dark brown; firm; friable; good core - unbroken; fissile.
TE				C2648	15.71	0.08	LIGNITE	Clayey; dark brown; firm; friable; good core - unbroken.
TE				C2648	15.78	0.07	LIGNEOUS CLAY	Dark brown; firm; low plasticity (organic); good core - unbroken.
TE				C2648	15.83	0.05	INFERIOR LIGNITE	Clayey; dark brown; firm; friable; good core - unbroken; common ligneous wisps.
TE				C2648	15.98	0.15	LIGNEOUS CLAY	Medium to dark brown; firm; high plasticity (organic); good core - unbroken; gradational base.

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STRAT NAME	SEQ NO.	SEAM NAME	WORK SECT	SAMPLE NUMBER	DEPTH (m)	THICK (m)	ROCK TYPE	GEOLOGICAL DESCRIPTION OF STRATA
TE				C2648	16.03	0.05	INFERIOR LIGNITE	Clayey, medium to dark brown - black, firm, friable, good core - unbroken.
TE				C2648	16.10	0.07	LIGNITE	Dark brown, firm, friable, good core - unbroken, fissile; Bands include: LIGNITE, woody textured, dark brown, firm, brittle, good core - unbroken.
TE				C2648	16.18	0.08	LIGNITE	Woody textured, dark brown, stiff, brittle, good core - unbroken.
TE				C2649	16.35	0.17	LIGNEOUS CLAY	Medium to dark brown - black, firm, low plasticity (organic), good core - unbroken.
TE				C2649	16.77	0.42	LIGNITE	Dark brown, firm, brittle, good core - unbroken.
TE				C2650	16.82	0.05	LIGNEOUS CLAY	Medium to dark brown, firm, low plasticity (organic), good core - unbroken.
TE				C2650	17.26	0.44	LIGNITE	Medium to dark brown - black, firm, brittle, good core - unbroken.
TE				C2651	17.79	0.53	LIGNITE	Medium to dark brown - black, firm, brittle, good core - unbroken;
								COMMON CLAY WISPS LESS THAN 1CM IN *
								SIZE
TE				C2651	17.89	0.10	INFERIOR LIGNITE	Clayey, medium to dark brown, firm, friable, good core - unbroken;
								HIGH INHERENT ASH, CLAY LENSES AND BANDS
TE				C2652	18.32	0.43	CLAY	Light to medium brown - grey, firm, high plasticity (clay), good core - unbroken, rare leaf impressions; Additional features include: rare ligneous fragments;
								CARBONACEOUS WISPS AT 18.22 METRES
TE					18.42	0.10	CORE LOSS	

EL2080 LAUNCESTON. C0022

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STRAT NAME	SEQ NO.	SEAM NAME	WORK SECT	SAMPLE NUMBER	DEPTH (m)	THICK (m)	ROCK TYPE	GEOLOGICAL DESCRIPTION OF STRATA
TE				C2653	19.11	0.69	CLAY	Silty, light to medium brown - grey, firm, high plasticity (clay), good core - unbroken; CARBONACEOUS WISPS RARE
TE				C2654	19.12	0.01	CLAY	Silty, light to medium grey - brown, firm, low plasticity (clay), good core - unbroken, rare ligneous wisps.
TE				C2654	19.48	0.36	CLAY and CLAY	Interbedded 50:50. CLAY: light to medium brown - grey, firm, high plasticity (clay), good core - unbroken, erodational base; CLAY: light to medium grey - brown, firm, high plasticity (clay), good core - unbroken.
TE				C2654	19.55	0.07	CLAY	Light to medium brown, firm, high plasticity (clay), good core - unbroken, rare ligneous wisps.
TE				C2654	19.70	0.15	LIGNEOUS CLAY	Medium to dark brown, firm, high plasticity (clay), good core - unbroken, subfissile, sharp planar base, beds dip at 03 degrees; LOW STRENGTH, READILY CRUMBLES
TE				C2655	19.88	0.18	LIGNITE	Medium to dark brown, firm, friable, good core - unbroken, fissile; CLAY WISPS OCCASIONAL
TE				C2655	19.99	0.11	INFERIOR LIGNITE	Clayey, medium to dark brown - black, firm, friable, good core - unbroken.
TE				C2655	20.01	0.02	CLAY	Light to medium brown, firm, high plasticity (clay), good core - unbroken, common ligneous wisps; CLAY OCCURENCE LENSOIDAL
TE				C2655	20.10	0.09	INFERIOR LIGNITE	Clayey, dark brown, firm, friable, good core - unbroken, common woody fragments.
TE				C2655	20.13	0.03	LIGNITE	Dark brown - black, firm, friable, good core - unbroken.

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STRAT NAME	SEQ NO.	SEAM NAME	WORK SECT	SAMPLE NUMBER	DEPTH (m)	THICK (m)	ROCK TYPE	GEOLOGICAL DESCRIPTION OF STRATA
TE				C2655	20.21	0.08	INFERIOR LIGNITE	Clayey; medium to dark brown - black; firm; friable; good core - unbroken;
								VERY HIGH INHERENT ASH, WITH CLAY WISPS *
								HIGHLY INTERBANDED WITH LIGNITE AND CLAY WISPS *
TE				C2655	20.23	0.02	LIGNITE	Dark brown - black; firm; friable; good core - unbroken.
TE				C2655	20.38	0.15	INFERIOR LIGNITE	Clayey; medium to dark brown - black; firm; friable; good core - unbroken.
TE				C2656	20.78	0.40	INFERIOR LIGNITE and CLAY	Interbedded 80:20. INFERIOR LIGNITE: clayey; dark brown; firm; friable; good core - unbroken; CLAY: light to medium grey - brown; firm; low plasticity (clay); good core - unbroken.
TE				C2656	20.90	0.12	LIGNITE	Medium to dark brown - black; firm; friable; good core - unbroken;
								WITH CLAY WISPS
TE				C2656	20.94	0.04	LIGNEOUS CLAY	Dark brown; firm; low plasticity (organic); good core - unbroken.
TE				C2656	21.11	0.17	CLAY	Light to medium grey - brown; firm; low plasticity (clay); good core - unbroken;
								LOW STRENGTH CLAY
TE				C2657	21.31	0.20	INFERIOR LIGNITE	Clayey; medium to dark brown; firm; friable; good core - unbroken.
TE				C2657	21.45	0.14	INFERIOR LIGNITE	Clayey; medium to dark brown; firm; friable; good core - unbroken;
								WITH CLAY WISPS
TE				C2657	21.54	0.09	CLAY	Medium to dark grey - brown; firm; low plasticity (clay); good core - unbroken; gradational base.

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STRAT NAME	SEQ NO.	SEAM NAME	WORK SECT	SAMPLE NUMBER	DEPTH (m)	THICK (m)	ROCK TYPE	GEOLOGICAL DESCRIPTION OF STRATA
TE				C2657	21.63	0.09	INFERIOR LIGNITE	Clayey; medium to dark brown; firm; friable; good core - unbroken.
TE				C2657	21.85	0.22	CLAY	Light to medium brown - grey; firm; high plasticity (clay); good core - unbroken; rare resin aggregates.
TE				C2658	21.94	0.09	INFERIOR LIGNITE	Clayey; medium to dark black - brown; firm; friable; good core - unbroken; Bands include: CLAY; medium to dark brown - grey; firm; low plasticity (clay); good core - unbroken.
TE				C2658	21.96	0.02	LIGNITE	Woody textured; medium to dark brown; firm; friable; good core - unbroken; fissile.
TE				C2658	22.12	0.16	INFERIOR LIGNITE	Clayey; medium to dark brown - grey; firm; friable; good core - unbroken; gradational base.
TE				C2658	22.22	0.10	LIGNEOUS CLAY	Light to medium brown - grey; firm; low plasticity (organic); good core - unbroken; abundant resin aggregates.
TE				C2658	22.28	0.06	LIGNITE	Medium to dark brown - black; firm; friable; good core - unbroken.
TE				C2658	22.46	0.18	INFERIOR LIGNITE	Clayey; dark brown - black; firm; low plasticity (organic); good core - unbroken.
TE				C2658	22.72	0.26	LIGNITE	Dark brown - black; firm; friable; good core - unbroken.
TE				C2658	22.92	0.20	INFERIOR LIGNITE	Clayey; dark brown - black; firm; friable; good core - unbroken.
TE				C2658	22.92	0.00	INFERIOR LIGNITE	Clayey; dark brown - black; firm; friable; good core - unbroken.
TE				C2659	23.32	0.40	LIGNITE	Dark brown; firm; coal clast; friable; coarse; subvertical joints; vertical joints; good core - unbroken.
TE				C2660	23.50	0.18	LIGNITE	Dark brown; firm; friable; good core - unbroken; gradational base; occasional resin aggregates; clay; clasts.
TE				C2660	23.78	0.28	LIGNITE	Dark brown; firm; friable; good core - unbroken; common resin aggregates.
TE				C2660	23.83	0.05	LIGNEOUS CLAY	Light to medium brown - grey; firm; low plasticity (organic); good core - unbroken; subfissile; common ligneous fragments.

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STRAT NAME	SEQ NO.	SEAM NAME	WORK SECT	SAMPLE NUMBER	DEPTH (m)	THICK (m)	ROCK TYPE	GEOLOGICAL DESCRIPTION OF STRATA
TE				C2661	23.94	0.11	LIGNITE and INFERIOR LIGNITE	Interbedded 60:40. LIGNITE: dark brown; firm; friable; good core - unbroken; subfissile; INFERIOR LIGNITE: clayey; dark brown; firm; friable.
TE				C2661	24.18	0.24	LIGNITE	Dark brown; firm; friable; good core - unbroken.
TE				C2662	24.24	0.06	LIGNEOUS CLAY	Dark brown - black; firm; high plasticity (organic); good core - unbroken; occasional resin aggregates.
TE				C2662	24.47	0.23	LIGNITE	Woody textured; medium to dark black - brown; firm; friable; good core - unbroken; fissile; common resin aggregates.
				C2662	24.55	0.08	CORE LOSS	Good core - unbroken.
TE				C2663	24.56	0.01	LIGNITE	Woody textured; dark black - brown; low strength; slickensides on fracture; brittle; coarse; subhorizontal joints; angle of joints 10 degrees; good core - unbroken.
TE				C2663	24.59	0.03	INFERIOR LIGNITE	Clayey; medium to dark brown - black; firm; friable; good core - unbroken.
TE				C2663	24.75	0.16	LIGNITE	Woody textured; dark brown; firm; friable; good core - unbroken.
TE				C2663	24.84	0.09	INFERIOR LIGNITE	Clayey; dark brown; firm; friable; good core - unbroken; CLAY AND WOOD WISPS COMMON
TE				C2663	24.89	0.05	LIGNITE	Woody textured; dark brown; firm; friable; good core - unbroken; common resin aggregates.
TE				C2663	25.06	0.17	LIGNITE	Medium to dark brown - black; firm; friable; good core - unbroken; gradational base; common resin aggregates; CLAY WISPS RARE
TE				C2663	25.08	0.02	INFERIOR LIGNITE	Medium to dark brown; firm; friable; good core - unbroken.
TE				C2663	25.18	0.10	LIGNEOUS CLAY	Light to medium brown; firm; low plasticity (organic); good core - unbroken.

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STRAT NAME	SEQ NO.	SEAM NAME	WORK SECT	SAMPLE NUMBER	DEPTH (m)	THICK (m)	ROCK TYPE	GEOLOGICAL DESCRIPTION OF STRATA
TE				C2663	25.23	0.05	INFERIOR LIGNITE	Clayey; medium to dark brown - black; firm; friable; good core - unbroken;
								CLAYEY WISPS PRESENT
TE				C2664	26.22	0.99	CLAY and CLAY	Interbedded 80:20. CLAY: light to medium brown - grey; firm; high plasticity (clay); good core - unbroken; rare muscovite; disseminated; CLAY: sandy; light grey - brown; firm; low plasticity (clay);
								OCCASIONAL WOOD WISPS
TE				C2664	26.38	0.16	CLAY	Sandy; light to medium grey - brown; firm; high plasticity (clay); good core - unbroken.
TE				C2664	26.69	0.31	CLAY	Light to medium grey - brown; firm; high plasticity (clay); good core - unbroken; sharp irregular base; beds dip at 15 degrees; rare muscovite; disseminated.
TE				C2665	27.31	0.62	SILT	Light grey - brown; high strength; brittle; good core - unbroken; erosional base; beds dip at 15 degrees; siderite; secondary; cement.
TE				C2665	27.65	0.34	CLAY	Light to medium grey - brown; firm; high plasticity (clay); good core - unbroken.
TE				R	47.00	19.35	NO RECORD	
TE				C2666	47.43	0.43	CLAY	Dark brown; soft; high plasticity (clay); good core - unbroken.
TE				C2666	47.55	0.12	CLAY	Ligneous; dark brown - black; firm; high plasticity (clay); good core - unbroken.
TE				C2666	47.80	0.25	CLAY	Ligneous; dark brown; firm; high plasticity (clay); good core - unbroken.
TE				C2666	48.02	0.22	CLAY	Light to medium grey; firm; high plasticity (clay); good core - unbroken; common ligneous wisps.
TE				C2666	48.46	0.44	CLAY	Ligneous; dark brown; firm; high plasticity (clay); good core - unbroken; common ligneous wisps.

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STRAT NAME	SEQ NO.	SEAM NAME	WORK SECT	SAMPLE NUMBER	DEPTH (m)	THICK (m)	ROCK TYPE	GEOLOGICAL DESCRIPTION OF STRATA
TE				C2666	48.54	0.08	CLAY	Light to medium brown - grey, firm, high plasticity (clay), good core - unbroken.
TE				C2666	48.67	0.13	CLAY	Light to medium grey - brown, firm, high plasticity (clay), good core - unbroken, common ligneous fragments;
								CLAYS BETWEEN 47.0 AND 48.67 METRES ARE *
								NON KERRAGINOUS * CLAYS ARE SATURATED, WHEN SQUEEZED WATER * IS RELEASED FROM CLAYS
TE				C2667	48.69	0.02	INFERIOR LIGNITE	Clayey, dark black - brown, firm, friable, good core - unbroken.
TE				C2667	49.03	0.34	CORE LOSS	
TE				C2667	49.38	0.35	LIGNITE	Dark brown, firm, friable, good core - unbroken.
TE				C2667	49.47	0.09	LIGNITE	Woody textured, dark brown - black, firm, friable, good core - unbroken.
TE				C2667	49.52	0.05	LIGNITE	Dark brown, firm, friable, good core - unbroken.
TE				C2667	49.60	0.08	LIGNITE	Dark black - brown, firm, friable, good core - unbroken, fissile.
TE				C2667	49.61	0.01	LIGNEOUS CLAY	Dark brown, firm, low plasticity (organic), good core - unbroken.
TE				C2667	49.70	0.09	LIGNITE	Dark brown - black, firm, friable, good core - unbroken, subfissile.
TE				C2668	49.80	0.10	LIGNITE	Dark brown - black, firm, friable, good core - unbroken, subfissile.
TE				C2668	49.92	0.12	LIGNITE	Dark brown, firm, friable, good core - unbroken.
TE				C2668	50.11	0.19	LIGNITE	Woody textured, dark black - brown, firm, friable, good core - unbroken, fissile;
								SLIGHT CLAY CONTENT IN LIGNITE. HIGHER *
								WATER CONTENT THAN PREVIOUS LITHOL- * OSIES FROM 49.03 METRES

STRAT NAME	SEQ NO.	SEAM NAME	WORK SECT	SAMPLE NUMBER	DEPTH (m)	THICK (m)	ROCK TYPE	GEOLOGICAL DESCRIPTION OF STRATA
TE				C2669	50.49	0.38	INFERIOR LIGNITE	Clayey, dark brown, firm, friable, good core - unbroken, fissile.
TE				C2669	50.70	0.21	INFERIOR LIGNITE	Clayey, dark brown - black, firm, friable, good core - unbroken;
								INCREASED CLAY CONTENT OVER PREVIOUS *
								OVER PREVIOUS INFERIOR LIGNITE
TE				C2670	50.88	0.18	LIGNITE	Woody textured, clayey, dark brown - black, firm, friable, good core - unbroken, fissile.
TE				C2670	51.08	0.20	LIGNITE	Dark brown - black, firm, friable, good core - unbroken;
								CLAY WISPS PRESENT
TE				C2671	51.19	0.11	LIGNEOUS CLAY	Dark brown - black, firm, low plasticity (organic), good core - unbroken.
TE				C2671	51.25	0.06	LIGNITE	Woody textured, clayey, dark brown - black, firm, friable, good core - unbroken, fissile.
TE				C2671	51.38	0.13	LIGNITE	Woody textured, clayey, dark black - brown, firm, friable, core broken, fissile, occasional resin aggregates.
TE				C2671	51.44	0.06	LIGNEOUS CLAY	Dark brown, firm, low plasticity (organic), good core - unbroken.
TE				C2671	51.49	0.05	LIGNITE	Dark brown - black, firm, friable, good core - unbroken.
TE				C2671	52.00	0.51	LIGNITE	Woody textured, clayey, medium to dark brown, firm, friable, good core - unbroken, occasional resin aggregates.
TE				C2671	52.01	0.01	INFERIOR LIGNITE	Clayey, dark brown - black, firm, friable, good core - unbroken, rare resin aggregates.
TE				C2672	52.06	0.05	LIGNITE	Woody textured, dark brown, firm, friable, good core - unbroken.
TE				C2672	52.10	0.04	INFERIOR LIGNITE	Clayey, dark brown, firm, friable, good core - unbroken.
TE				C2672	52.25	0.15	LIGNEOUS CLAY	Light to medium grey - brown, firm, low plasticity (organic), good core - unbroken, common woody fragments; Additional features include: common lignoous wisps.

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STRAT NAME	SEQ NO.	SEAM NAME	WORK SECT	SAMPLE NUMBER	DEPTH (m)	THICK (m)	ROCK TYPE	GEOLOGICAL DESCRIPTION OF STRATA
TE				C2672	52.28	0.03	LIGNITE	Woody textured; clayey; dark brown; firm; friable; good core - unbroken.
TE				C2672	52.31	0.03	INFERIOR LIGNITE	Clayey; dark brown; firm; friable; good core - unbroken.
TE				C2672	52.32	0.01	LIGNITE	Woody textured; dark brown - black; low strength; brittle; good core - unbroken.
TE				C2672	52.41	0.09	CLAY	Light to medium grey - brown; firm; low plasticity (clay); good core - unbroken; gradational base.
TE				C2672	52.60	0.19	LIGNITE	Woody textured; dark brown; firm; friable; good core - unbroken; gradational base; occasional resin aggregates.
TE				C2672	52.80	0.20	CLAY	Light to medium grey - brown; firm; low plasticity (clay); good core - unbroken; gradational base; abundant woody fragments.
TE				C2673	52.94	0.14	LIGNITE	Woody textured; dark brown; firm; friable; good core - unbroken; common ligneous wisps.
TE				C2673	53.09	0.15	INFERIOR LIGNITE	Clayey; dark brown - black; firm; friable; good core - unbroken;
								CLAY WISPS AND WOODY BANDS COMMON
TE				C2673	53.11	0.02	LIGNITE	Woody textured; dark brown - black; firm; friable; good core - unbroken; fissile;
								VERY MOIST, SATURATED LIGNITE
TE				C2673	53.21	0.10	LIGNITE	Woody textured; dark brown - black; firm; friable; good core - unbroken; fissile.
TE				C2673	53.43	0.22	LIGNITE	Woody textured; dark brown - black; firm; friable; good core - unbroken; common resin aggregates.
TE				C2673	53.63	0.20	LIGNITE	Woody textured; dark brown - black; firm; friable; good core - unbroken; common resin aggregates.
TE				C2676	53.77	0.14	INFERIOR LIGNITE	Silty; medium to dark brown; firm; friable; good core - unbroken; rare muscovite; secondary; disseminated.

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STRAT NAME	SEQ NO.	SEAM NAME	WORK SECT	SAMPLE NUMBER	DEPTH (m)	THICK (m)	ROCK TYPE	GEOLOGICAL DESCRIPTION OF STRATA
TE				C2676	53.90	0.13	INFERIOR LIGNITE	Silty; medium to dark brown; firm; slickensides on fracture; friable; common; oblique joints; angle of joints 40 degrees; good core - unbroken; rare muscovite; secondary; disseminated.
TE				C2676	54.01	0.11	LIGNITE	Dark brown - black; firm; friable; good core - unbroken; common woody fragments.
TE				C2676	54.05	0.04	INFERIOR LIGNITE	Clayey; dark brown; firm; friable; good core - unbroken.
TE				C2676	54.20	0.15	LIGNITE	Dark brown; firm; friable; good core - unbroken; occasional resin aggregates.
TE				C2676	54.52	0.32	LIGNITE	Woody textured; dark black - brown; firm; friable; good core - unbroken; Bands include: LIGNITE; woody textured; dark black - brown; low strength; brittle. .
TE				C2676	54.66	0.14	INFERIOR LIGNITE	Clayey; dark brown; firm; friable; good core - unbroken.
TE				C2676	54.73	0.07	LIGNEOUS CLAY	Dark brown; firm; low plasticity (organic); good core - unbroken.
TE				C2676	54.76	0.03	LIGNITE	Woody textured; dark brown; firm; friable; good core - unbroken; gradational base.
TE				C2677	54.87	0.11	CLAY	Lignous; light to medium brown - grey; firm; low plasticity (clay); good core - unbroken; gradational base.
TE				C2677	55.04	0.17	CLAY	Light to medium grey; firm; low plasticity (clay); good core - unbroken; common lignous wisps.
TE				R	58.20	3.16	NO RECORD	
TE				C2678	58.73	0.53	CLAY	Silty; light to medium grey; firm; high plasticity (clay); good core - unbroken; common lignous fragments; OCCASIONAL CARBONACEOUS BANDS
TE				C2678	59.31	0.58	CLAY	Carbonaceous; light to medium brown - grey; firm; high plasticity (clay); good core - unbroken; common lignous wisps; FREQUENT CARBONACEOUS BANDS

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STRAT NAME	SEQ NO.	SEAM NAME	WORK SECT	SAMPLE NUMBER	DEPTH (m)	THICK (m)	ROCK TYPE	GEOLOGICAL DESCRIPTION OF STRATA
TE				C2678	59.54	0.23	LIGNEOUS CLAY	Light to medium brown - grey; firm; low plasticity (organic); good core - unbroken; subfissile; gradational base; abundant lignecus fragments.
TE				C2678	60.04	0.50	CLAY	Light to medium grey; firm; high plasticity (clay); good core - unbroken; gradational base; occasional woody fragments; CONTAINS VERY FINELY DISSEMINATED * COALLY FRAGMENTS
TE				C2678	60.15	0.11	CLAY	Light to medium brown - grey; firm; high plasticity (clay); good core - unbroken; common woody fragments.
TE				C2679	60.20	0.05	INFERIOR LIGNITE	Clayey; medium to dark brown - grey; firm; slickensides on fracture; friable; coarse; oblique joints; angle of joints 40 degrees; good core - unbroken.
TE				C2679	60.55	0.35	CLAY	Light to medium brown - grey; firm; slickensides on fracture; high plasticity (clay); coarse; oblique joints; angle of joints 60 degrees; good core - unbroken; gradational base; occasional woody fragments.
TE				C2680	60.60	0.05	INFERIOR LIGNITE	Clayey; medium to dark brown; firm; friable; good core - unbroken.
TE				C2680	60.74	0.14	LIGNITE	Woody textured; dark brown; firm; friable; good core - unbroken; fissile; occasional resin aggregates.
TE				C2680	61.04	0.30	INFERIOR LIGNITE and CLAY	Interbedded 80:20. INFERIOR LIGNITE: clayey; woody textured; medium to dark brown; firm; friable; good core - unbroken; fissile; occasional resin aggregates; CLAY: light to medium brown - grey; firm; high plasticity (clay); FINELY INTERBANDED, FINELY LAMINAR
TE				C2680	61.09	0.05	LIGNITE	Dark black - brown; firm; friable; good core - unbroken; fissile.

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STRAT NAME	SEQ NO.	SEAM NAME	WORK SECT	SAMPLE NUMBER	DEPTH (m)	THICK (m)	ROCK TYPE	GEOLOGICAL DESCRIPTION OF STRATA
TE				C2680	61.13	0.04	INFERIOR LIGNITE and CLAY	Interbedded 60:40. INFERIOR LIGNITE: clayey; dark brown - black; firm; friable; good core - unbroken; CLAY: ligneous; medium to dark brown - grey; firm; high plasticity (clay); FINELY LAMINAR; CLAY IS OF LOW STRENGTH
TE				C2680	61.16	0.03	LIGNITE	Dark brown - black; firm; friable; good core - unbroken.
TE					61.43	0.27	CORE LOSS	
TE				C2682	61.45	0.02	LIGNITE	Woody textured; dark brown - black; firm; friable; good core - unbroken.
TE				C2682	61.57	0.12	CLAY	Ligneous; dark brown; firm; low plasticity (organic); good core - unbroken; common woody fragments.
TE				C2682	61.69	0.12	INFERIOR LIGNITE	Woody textured; clayey; dark brown; firm; friable; good core - unbroken; fissile; VERY MOIST SATURATED LIGNITE
TE				C2682	61.77	0.08	LIGNITE	Woody textured; dark brown; low strength; cool cleat; brittle; coarse; subvertical joints; vertical joints; good core - unbroken; sharp irregular base; POSSIBLY A TREE BRANCH
TE				C2682	61.99	0.22	CLAY	Ligneous; medium to dark brown - black; firm; friable; good core - unbroken; fissile; abundant ligneous wisps; Additional features include: common resin aggregates; LOW STRENGTH CLAY
TE				C2682	62.03	0.04	LIGNITE	Woody textured; medium to dark black - brown; firm; friable; good core - unbroken; fissile.
TE				C2682	62.15	0.12	INFERIOR LIGNITE	Woody textured; dark brown; firm; friable; good core - unbroken; rare resin aggregates.
TE				C2682	62.19	0.04	LIGNITE	Woody textured; dark black - brown; firm; friable; good core - unbroken; fissile.

771216

STRAT NAME	SEQ NO.	SEAM NAME	WORK SECT	SAMPLE NUMBER	DEPTH (m)	THICK (m)	ROCK TYPE	GEOLOGICAL DESCRIPTION OF STRATA
TE				C2683	62.29	0.10	CLAY	Light to medium grey, firm, high plasticity (clay), good core - unbroken;
								CARBONACEOUS WISPS COMMON
TE				C2683	62.35	0.06	CLAY	Ligneous, light to medium brown - grey, firm, high plasticity (clay), good core - unbroken, abundant woody fragments.
TE				C2683	62.42	0.07	LIGNITE	Woody textured, clayey, dark brown - black, firm, friable, good core - unbroken, common resin aggregates.
TE				C2683	62.55	0.13	CLAY	Light to medium brown - grey, firm, high plasticity (clay), good core - unbroken, common ligneous wisps.
TE				C2683	62.59	0.04	INFERIOR LIGNITE	Clayey, dark brown - black, firm, friable, good core - unbroken.
TE				C2683	62.71	0.12	CLAY	Light to medium brown - grey, firm, low plasticity (clay), good core - unbroken, gradational base.
TE				C2683	62.78	0.07	INFERIOR LIGNITE	Clayey, dark brown, firm, friable, good core - unbroken;
								CLAY LENSES COMMON
TE				C2683	62.84	0.06	INFERIOR LIGNITE	Woody textured, dark brown, firm, friable, good core - unbroken, fissile;
								CLAY WISPS COMMON
TE				C2683	62.90	0.06	LIGNEOUS CLAY	Medium to dark brown, firm, low plasticity (organic).
TE				C2683	62.93	0.03	LIGNITE	Peaty, woody textured, medium to dark black - brown, firm, friable, fissile.
TE				C2683	63.07	0.14	INFERIOR LIGNITE	Clayey, dark brown - black, firm, friable, fissile.
TE				C2684	63.12	0.05	INFERIOR LIGNITE	Peaty, woody textured, dark brown - black, firm, friable, fissile, sharp irregular base, beds dip at 20 degrees;
								CEMENTED SILTY INFILLING IN WOODY ZONES

7712117

LAUNCESTON. GEOLOGICAL LOG REPORT ATP EL2080 LAUNCESTON TENEMENT 2080

STRAT NAME	SEQ NO.	SEAM NAME	WORK SECT	SAMPLE NUMBER	DEPTH (m)	THICK (m)	ROCK TYPE	GEOLOGICAL DESCRIPTION OF STRATA
TE				C2684	63.31	0.19	CLAY	Medium to dark brown - grey; firm; low plasticity (clay); CONTAINS NODULES OF CEMENTED SILT
TE				C2684	63.38	0.07	INFERIOR LIGNITE	Peaty; woody textured; medium to dark black - brown; firm; friable; common woody fragments; Additional features include: clayey; POSSIBLY A BRANCH WASHED INTO CLAYS
TE				C2684	63.55	0.17	CLAY	Light to medium brown - grey; firm; low plasticity (clay); abundant woody fragments; Additional features include: abundant ligneous micro.

END OF BORE AT 63.55 m

EL2080 LAUNCESTON. C0022

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EL2080 LAUNCESTON. R0023
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Eastins: 497240.000
Northins: 5410360.000
Grid Type: Australian Mapping Grid
Accuracy: Approximate
Crl: 150.00
Datum: Approximate Level - Not Surveyed
Sheet Reference:
Sheet Index:
Total Depth: 76.80
Drillins Commenced: 10/11/81
Drillins Completed: 11/11/81
Inclination:
Azimuth:
Standins Water Level: 2.5

Available Data: Gamma Loss
Density Loss
Resistivity Loss
Caliper Loss

Loggins Organisation: CSR Exploration and Evaluation Group
Logged By: HINRICHS
Drilling Contractor: H.J. Stapoole
Geophysical Loggins: Murdoch Geophysics

County:
Parish:
Portion:

Plug Depths:
Hole Diameter: 150
Core Diameter:
Cased Depths:
Core Barrel:

Drill Bits: Blades

ALL ROCKS ARE FRESH UNLESS OTHERWISE INDICATED

771219

STRAT NAME	SEQ NO.	SEAM NAME	WORK SECT	SAMPLE NUMBER	DEPTH (m)	THICK (m)	ROCK TYPE	GEOLOGICAL DESCRIPTION OF STRATA
					3.00	3.00	CLAY	Light to medium grey - yellow; firm; low plasticity (clay).
					4.20	1.20	CLAY	Light to medium orange - grey; firm; low plasticity (clay).
					4.50	0.30	CLAY	Sandy; light to medium yellow - grey; firm; low plasticity (clay).
					6.50	2.00	CLAY	Sandy; light to medium orange - grey; firm; low plasticity (clay).
					7.50	1.00	CLAY	Woody textured; light to medium brown - yellow; firm; high plasticity (clay).
					10.10	2.60	CLAY	Light to medium brown; firm; high plasticity (clay).
					10.60	0.50	CLAY	Light to medium grey; firm; high plasticity (clay).
					12.10	1.50	CLAY	Silty; light to medium brown - yellow; firm; high plasticity (clay).
					13.80	1.70	CLAY	Light to medium grey - brown; firm; low plasticity (clay).
					15.50	1.70	CLAY	Woody textured; light to medium grey; firm; high plasticity (clay).
					16.60	1.10	CLAY	Light to medium grey - brown; firm; low plasticity (clay).
					17.25	0.65	LIGNEOUS CLAY	Medium to dark brown; firm; low plasticity (organic).
					17.70	0.45	CLAY	Light to medium brown - grey; firm; low plasticity (clay).
					19.30	1.60	INFERIOR LIGNITE	Humified, peaty; dark brown; firm; friable; fibrous; Additional features include: woody textured; Bands include: LIGNEOUS CLAY, medium to dark brown; firm; low plasticity (organic).
					20.20	0.90	INFERIOR LIGNITE	Clayey; peaty; dark brown; firm; friable; fibrous; Additional features include: woody textured; Bands include: LIGNEOUS CLAY, medium to dark brown; firm; low plasticity (organic).
					21.30	1.10	LIGNEOUS CLAY	Medium to dark brown; firm; low plasticity (organic).
					22.10	0.80	INFERIOR LIGNITE	Peaty; woody textured; dark brown; firm; friable; fibrous; Bands include: LIGNEOUS CLAY, medium to dark brown; firm; low plasticity (organic).

154 771220

STRAT NAME	SEQ NO.	SEAM NAME	WORK SECT	SAMPLE NUMBER	DEPTH (m)	THICK (m)	ROCK TYPE	GEOLOGICAL DESCRIPTION OF STRATA
					23.17	1.07	INFERIOR LIGNITE	Clayey; peaty; dark brown; firm; friable; fibrous; Additional features include: woody textured; Bands include: LIGNEOUS CLAY, medium to dark brown; firm; low plasticity (organic).
					25.30	2.13	LIGNEOUS CLAY	Medium to dark brown; firm; low plasticity (organic); Bands include: INFERIOR LIGNITE, clayey, peaty, medium to dark brown, firm, friable.
					26.00	0.70	INFERIOR LIGNITE	Peaty; woody textured, medium to dark brown, firm; friable; fibrous; Additional features include: humified, clayey;
								LIGNITE OF SEAM 2 CHARACTERIZED BY *
								A SPONGY, FIBROUS; ALMOST ELASTIC * NATURE
					28.50	2.50	CLAY	Carbonaceous; medium to dark brown; firm; high plasticity (clay).
					30.40	1.90	CLAY	Sandy, woody textured, medium to dark brown; firm; low plasticity (clay).
					31.20	0.80	CLAY	Medium to dark brown - grey; firm; high plasticity (clay).
					31.60	0.40	LIGNEOUS CLAY	Medium to dark brown; firm; low plasticity (organic).
					33.20	1.60	INFERIOR LIGNITE	Clayey; peaty; dark brown - black; firm; friable; fibrous; Additional features include: humified.
					33.60	0.40	LIGNEOUS CLAY	Medium to dark brown; firm; low plasticity (organic).
					34.00	0.40	INFERIOR LIGNITE	Clayey, dark brown; firm, friable.
					34.80	0.80	CLAY	Carbonaceous; medium to dark brown - grey; firm; high plasticity (clay).
					35.80	1.00	LIGNEOUS CLAY	Medium to dark brown; firm; low plasticity (organic); Bands include: CLAY, carbonaceous, medium to dark brown - grey; firm; high plasticity (clay).
					36.50	0.70	CLAY	Carbonaceous, medium to dark brown - grey, firm; high plasticity (clay).

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77 1221

STRAT NAME	SEQ NO.	SEAM NAME	WORK SECT	SAMPLE NUMBER	DEPTH (m)	THICK (m)	ROCK TYPE	GEOLOGICAL DESCRIPTION OF STRATA
					37.50	1.00	INFERIOR LIGNITE	Woody textured; reetu; dark brown - black; firm; friable; fibrous.
					38.20	0.70	INFERIOR LIGNITE	Clayey; woody textured; dark brown - black; firm; friable; fibrous; Additional features include: reetu.
					39.10	0.90	INFERIOR LIGNITE	Interbedded 80:20; Additional features include: reetu; LIGNEOUS CLAY: medium to dark brown; firm; low plasticity (organic).
					39.90	0.80	INFERIOR LIGNITE	Woody textured; reetu; dark brown - black; firm; friable; fibrous.
					40.30	0.40	INFERIOR LIGNITE	Clayey; woody textured; dark brown - black; firm; friable; fibrous; Additional features include: reetu.
					40.90	0.60	INFERIOR LIGNITE	Woody textured; reetu; dark brown - black; firm; friable; fibrous.
					42.40	1.50	INFERIOR LIGNITE	Clayey; woody textured; dark brown - black; firm; friable; fibrous; Additional features include: reetu.
					43.50	1.10	CLAY	Silty; carbonaceous; medium to dark brown - grey; firm; high plasticity (clay).
					44.10	0.60	LIGNITE	Woody textured; reetu; dark brown - black; firm; friable; fibrous.
					44.80	0.70	INFERIOR LIGNITE	Woody textured; reetu; dark brown - black; firm; friable; fibrous.
					45.30	0.50	INFERIOR LIGNITE	Clayey; woody textured; dark brown - black; firm; friable; fibrous; Additional features include: reetu.
					45.80	0.50	INFERIOR LIGNITE	Woody textured; reetu; dark brown - black; firm; friable; fibrous.
					46.20	0.40	INFERIOR LIGNITE	Clayey; woody textured; dark brown - black; firm; friable; fibrous; Additional features include: reetu.

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0071222

STRAT NAME	SEQ NO.	SEAM NAME	WORK SECT	SAMPLE NUMBER	DEPTH (m)	THICK (m)	ROCK TYPE	GEOLOGICAL DESCRIPTION OF STRATA
					46.50	0.30	INFERIOR LIGNITE	Woody textured; peaty; dark brown - black; firm; friable; fibrous.
					47.00	0.50	INFERIOR LIGNITE	Clayey; woody textured; dark brown - black; firm; friable; fibrous; Additional features include; peaty.
					49.30	2.30	CLAY	Carbonaceous; medium to dark brown - grey; firm; low plasticity (clay); CHANGE CIRCULATING FLUID AT 48 METRES
					59.60	10.30	CLAY	Silty; light white - grey; soft; low plasticity (clay).
					61.30	1.70	INFERIOR LIGNITE	Woody textured; peaty; medium to dark brown - black; firm; friable; Bands include; INFERIOR LIGNITE; woody textured; peaty; medium to dark brown - black; low strength; brittle.
					62.30	1.00	CLAY	Kaolinitic; light to medium grey - brown; firm; high plasticity (clay); common woody fragments.
					63.00	0.70	LIGNITE	Woody textured; peaty; medium to dark brown; firm; friable; fibrous.
					68.50	5.50	CLAY	Light to medium grey - brown; firm; high plasticity (clay).
					69.20	0.70	SIDERITE	Light to medium brown; extremely high strength; tough; Bands include; SIDERITE; light to medium brown; high strength; brittle.
					76.80	7.60	CLAY	Silty; light to medium grey - brown; firm; low plasticity (clay); common woody fragments; Bands include; INFERIOR LIGNITE; 00.20 m thick; base at 0071.50m; woody textured; peaty; medium to dark brown; firm; friable;

LIGNITES OF SEAM 3 ARE CHARACTERIZED *
BY A SPONGY FIBROUS NATURE AND *
HIGH INHERENT CLAY CONTENT *
LOG REWRITTEN FROM GEOPHYSICAL LOG *
ENTIRELY FROM 0 TO 35 METRES

END OF BORE AT 76.80 m

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4712233

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EL2080 LAUNCESTON. R0024
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Eastings:	489430.000	Logging Organisation:	CSR Exploration and Evaluation Group
Northings:	5411150.000	Logged By:	HINRICHS
Grid Type:	Australian Mapping Grid	Drilling Contractor:	H.J. Stacpoole
Accuracy:	Approximate	Geophysical Logging:	Murdoch Geophysics
Crl:	197.00		
Datum:	Approximate Level - Not Surveyed		
Sheet Reference:		County:	
Sheet Index:		Parish:	
Total Depth:	76.20	Portion:	
Drilling Commenced:	11/11/81		
Drilling Completed:	12/11/81		
Inclination:		Plug Depths:	
Azimuth:		Hole Diameter:	120
Standing Water Level:	1.7	Core Diameter:	
		Cased Depths:	
		Core Barrel:	
Available Data:	Gamma Logs		
	Density Logs		
	Resistivity Logs	Drill Bits:	Blades
	Caliper Logs		Percussion

ALL ROCKS ARE FRESH UNLESS OTHERWISE INDICATED

7712224

STRAT NAME	SEQ NO.	SEAM NAME	WORK SECT	SAMPLE NUMBER	DEPTH (m)	THICK (m)	ROCK TYPE	GEOLOGICAL DESCRIPTION OF STRATA
					4.50	4.50	GRAVEL	Clayey, medium to dark brown - orange, weathered, medium dense, non-plastic.
					9.50	5.00	BASALT	Gravelly, clayey, dark black - brown, weathered, high strength, brittle.
					22.70	13.20	BASALT	Dark black, slightly weathered, extremely high strength, tough;
								POSSIBLY VESICULAR IN PART
					48.90	26.20	SAND	Clayey, light grey - white, medium dense, non-plastic, fining upwards, common woody fragments.
					49.50	0.60	LIGNEOUS CLAY	Medium to dark brown, firm, low plasticity (organic).
					50.00	0.50	CLAY	Carbonaceous, medium to dark brown - grey, firm, high plasticity (clay).
					50.30	0.30	INFERIOR LIGNITE	Clayey, medium to dark brown - black, firm, friable.
					51.40	1.10	LIGNEOUS CLAY	Medium to dark brown, firm, low plasticity (organic).
					51.80	0.40	INFERIOR LIGNITE	Clayey, medium to dark brown - black, firm, friable.
					52.40	0.60	CLAY	Carbonaceous, medium to dark brown - grey, firm, high plasticity (clay).
					52.70	0.30	LIGNEOUS CLAY	Medium to dark brown, firm, low plasticity (organic).
					53.10	0.40	CLAY	Carbonaceous, medium to dark brown - grey, firm, high plasticity (clay).
					53.55	0.45	INFERIOR LIGNITE	Clayey, medium to dark brown, firm, friable.
					54.50	0.95	LIGNEOUS CLAY	Medium to dark brown, firm, low plasticity (organic).
					55.20	0.70	CLAY	Carbonaceous, medium to dark brown - grey, firm, high plasticity (clay).
					55.50	0.30	LIGNEOUS CLAY	Medium to dark brown, firm, high plasticity (organic).
					55.90	0.40	CLAY	Carbonaceous, medium to dark brown - grey, firm, high plasticity (clay).

STRAT NAME	SEQ NO.	SEAM NAME	WORK SECT	SAMPLE NUMBER	DEPTH (m)	THICK (m)	ROCK TYPE	GEOLOGICAL DESCRIPTION OF STRATA
					56.20	0.30	LIGNEOUS CLAY	Medium to dark brown; firm; high plasticity (organic).
					61.50	5.30	CLAY	Woody textured; light to medium grey - brown; firm; low plasticity (clay).
					61.90	0.40	INFERIOR LIGNITE	Clayey; medium to dark brown - black; firm; friable.
					63.90	2.00	CLAY	Carbonaceous; medium to dark brown - grey; firm; low plasticity (clay).
					64.80	0.90	INFERIOR LIGNITE	Clayey; medium to dark brown - black; firm; friable.
					65.60	0.80	CLAY	Carbonaceous; medium to dark brown - grey; firm; low plasticity (clay).
					66.30	0.70	INFERIOR LIGNITE	Clayey; medium to dark brown - black; firm; friable.
					69.30	3.00	CLAY	Carbonaceous; medium to dark brown - grey; firm; low plasticity (clay).
					69.80	0.50	INFERIOR LIGNITE	Clayey; medium to dark brown - black; firm; friable.
					70.85	1.05	LIGNEOUS CLAY	Medium to dark brown; firm; low plasticity (organic).
					71.80	0.95	CLAY	Carbonaceous; medium to dark brown - grey; firm; high plasticity (clay).
					72.30	0.50	LIGNEOUS CLAY	Medium to dark brown; firm; low plasticity (organic).
					72.80	0.50	CLAY	Carbonaceous; medium to dark brown - grey; firm; high plasticity (clay).
					73.45	0.65	LIGNEOUS CLAY	Medium to dark brown; firm; low plasticity (organic).
					73.90	0.45	INFERIOR LIGNITE	Clayey; medium to dark brown - black; firm; friable.
					76.20	2.30	CLAY	Carbonaceous; medium to dark brown - grey; firm; high plasticity (clay);
								DOWN HOLE HAMMER WAS USED TO PENETRATE *
								BASALT.

END OF BORE AT 76.20 m

771226

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EL2080 LAUNCESTON. R0025
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Eastins: 491250.000
Northins: 5410820.000
Grid Type: Australian Mapping Grid
Accuracy: Approximate
Drl: 185.00
Datum: Approximate Level - Not Surveyed
Sheet Reference:
Sheet Index:
Total Depth: 76.80
Drilling Commenced: 12/11/81
Drilling Completed: 12/11/81
Inclination:
Azimuth:
Standing Water Level: 0.5

Available Data: Gamma Logs
Density Logs
Resistivity Logs
Caliper Logs

Logging Organisation: CSR Exploration and Evaluation Group
Logged By: ELLIS
Drilling Contractor: H.J. Stacroole
Geophysical Logging: Murdoch Geophysics

County:
Parish:
Portion:

Plug Depths:
Hole Diameter: 150
Core Diameter:
Cased Depths:
Core Barrel:

Drill Bits: Blades

ALL ROCKS ARE FRESH UNLESS OTHERWISE INDICATED

771227

STRAT NAME	SEQ NO.	SEAM NAME	WORK SECT	SAMPLE NUMBER	DEPTH (m)	THICK (m)	ROCK TYPE	GEOLOGICAL DESCRIPTION OF STRATA
					0.80	0.80	SILT	Clayey; humified; medium to dark brown; firm; low plasticity (silt).
					1.50	0.70	CLAY	Light to medium yellow; firm; high plasticity (clay).
					2.20	0.70	CLAY	Sandy; quartzose; light white; firm; low plasticity (clay).
					4.30	2.10	SAND	Quartzose; clayey; light white - orange; medium dense; non-plastic; fine and medium grained; Bands include: CLAY; sandy; quartzose; mottled white - orange; firm; low plasticity (clay).
					5.40	1.10	CLAY	Kaolinitic; light grey; firm; high plasticity (clay); WITH SOME SAND
					6.50	1.10	CLAY	Kaolinitic; light grey - off white; firm; high plasticity (clay).
					9.50	3.00	CLAY	Kaolinitic; mottled off white - grey; firm; high plasticity (clay); Additional features include: cream; Bands include: CLAY; kaolinitic; light to medium cream - yellow; firm; high plasticity (clay).
					10.50	1.00	CLAY	Mottled off white - pink; Additional features include: cream.
					12.20	1.70	CLAY	Mottled cream - pink; firm; high plasticity (clay); Additional features include: brown - grey.
					13.00	0.80	CLAY	Light to medium brown; firm; high plasticity (clay); BECOMING MID TO DARK BROWN AT BASE
					14.30	1.30	LIGNEOUS CLAY	Medium to dark brown; firm; low plasticity (organic).
					15.40	1.10	CLAY	Carbonaceous; medium to dark brown - grey; firm; high plasticity (clay); Bands include: CLAY; carbonaceous; silty; medium to dark brown - grey; firm; low plasticity (clay).
					16.00	0.60	LIGNITE	Medium to dark brown - black; firm; friable.

8712228

STRAT NAME	SEQ NO.	SEAM NAME	WORK SECT	SAMPLE NUMBER	DEPTH (m)	THICK (m)	ROCK TYPE	GEOLOGICAL DESCRIPTION OF STRATA
					18.00	2.00	INFERIOR LIGNITE	Clayey; humified; medium to dark brown - black; firm; friable; Bands include: LIGNEOUS CLAY, medium to dark brown; firm; low plasticity (organic); NOTE ANOMOLOUS GAMMA-DENSITY RESPONSE * OF GEOPHYSICAL LOG-GAMMA INDICATES * LIGNITE; CLAYS AS LOGGED MAY BE OXIDIZ- * ED LIGNITE
					18.30	0.30	LIGNEOUS CLAY	Medium to dark brown; firm; low plasticity (organic).
					19.40	1.10	CLAY	Ligneous; medium to dark brown; firm; high plasticity (clay).
					20.40	1.00	LIGNITE	Humified; medium to dark brown; firm; high plasticity (organic).
					21.00	0.60	LIGNEOUS CLAY	Medium to dark brown; firm; high plasticity (organic).
					21.80	0.80	INFERIOR LIGNITE	Clayey; humified; medium to dark brown; firm; low plasticity (organic).
					22.20	0.40	LIGNEOUS CLAY	Medium to dark brown; firm; high plasticity (organic).
					23.00	0.80	CLAY	Medium to dark brown; firm; high plasticity (clay); common ligneous wisps.
					23.40	0.40	LIGNEOUS CLAY	Medium to dark brown; firm; high plasticity (organic).
					24.00	0.60	LIGNITE	Dark brown; firm; friable; fibrous.
					24.80	0.80	INFERIOR LIGNITE	Peaty; medium to dark brown; firm; friable; fibrous.
					25.60	0.80	CLAY	Carbonaceous; medium to dark brown; firm; high plasticity (clay).
					26.30	0.70	INFERIOR LIGNITE	Clayey; medium to dark brown; firm; friable.
					31.70	5.40	CLAY	Ligneous; medium to dark brown - grey; firm; high plasticity (clay).

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07 PA 1229

STRAT NAME	SEQ NO.	SEAM NAME	WORK SECT	SAMPLE NUMBER	DEPTH (m)	THICK (m)	ROCK TYPE	GEOLOGICAL DESCRIPTION OF STRATA
					36.25	4.55	CLAY and CLAY	Interbedded 80:20. CLAY: light to medium grey - white, firm, high plasticity (clay), occasional ligneous wisps; CLAY: ligneous, medium to dark brown - grey, firm, high plasticity (clay), occasional ligneous wisps; POOR SAMPLE RETURN, CLAY BALLING
					36.75	0.50	SIDERITE	Light to medium brown, low strength, brittle.
					39.70	2.95	CLAY	Light to medium grey - white, firm, high plasticity (clay).
					40.40	0.70	SIDERITE	Light to medium brown, high strength, tough.
					43.10	2.70	SAND	Clayey, light to medium grey - yellow, loose, non-plastic.
					46.75	3.65	SAND	Clayey, woody textured, light to medium grey - white, loose, non-plastic, fine and medium grained.
					50.95	4.20	SAND	Ligneous, woody textured, light to medium grey - brown, medium dense, non-plastic, medium and coarse grained.
					51.50	0.55	INFERIOR LIGNITE	Medium to dark brown, firm, friable.
					52.05	0.55	LIGNEOUS CLAY	Medium to dark brown, firm, low plasticity (organic).
					52.75	0.70	LIGNITE	Clayey, medium to dark brown, firm, low plasticity (organic).
					53.00	0.25	INFERIOR LIGNITE	Medium to dark brown, firm, low plasticity (organic); LIGNITE IN THIS SEAM IS SPONGY, LOW PLASTICITY. *
					56.75	3.75	CLAY	Ligneous, medium to dark brown, firm, low plasticity (organic).
					67.60	10.85	CLAY	Woody textured, sandy, light to medium brown - off white, firm, low plasticity (clay).
					69.50	1.90	SAND	Woody textured, light to medium brown - grey, medium dense, non-plastic.
					69.80	0.30	INFERIOR LIGNITE	Medium to dark brown, firm, friable.
					70.60	0.80	LIGNEOUS CLAY	Medium to dark brown, firm, low plasticity (organic).

771230

STRAT NAME	SEQ NO.	SEAM NAME	WORK SECT	SAMPLE NUMBER	DEPTH (m)	THICK (m)	ROCK TYPE	GEOLOGICAL DESCRIPTION OF STRATA
					71.90	1.30	INFERIOR LIGNITE	Medium to dark brown, firm, friable.
					73.40	1.50	CLAY	Carbonaceous, light to medium brown - grey, firm, high plasticity (clay).
					74.30	0.90	INFERIOR LIGNITE	Medium to dark brown, firm, friable.
					76.80	2.50	SAND	Clayey, woody textured, light to medium grey - brown, medium dense, non-plastic;
								LOWER SEAM LOGGED AS A SANDY LIGNEOUS *
								HORIZON ON RIG. GEOPHYSICAL LOG INTERP- * RETATION SUGGESTS INTERBANDED LIGNITES * AND CLAYS.

END OF BORE AT 76.80 m

EL2080 LAUNCESTON. R0025

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77231

166

****
EL2080 LAUNCESTON. R0026
****

Eastings: 488610.000
Northing: 5412960.000
Grid Type: Australian Morring Grid
Accuracy: Approximate
Crl: 199.00
Datum: Approximate Level - Not Surveyed
Sheet Reference:
Sheet Index:
Total Depth: 79.50
Drilling Commenced: 13/11/81
Drilling Completed: 14/11/81
Inclination:
Azimuth:
Standing Water Level: 7.3

Available Data: Gamma Loss
Resistivity Loss

Logging Organisation: CSR Exploration and Evaluation Group
Logged By: HINRICHS
Drilling Contractor: H.J. Stoeroole
Geophysical Logging: Murdoch Geophysics

County:
Parish:
Portion:

Plug Depths:
Hole Diameter: 120
Core Diameter:
Cased Depths:
Core Barrel:

Drill Bits: Blades
Rollers
Percussion

ALL ROCKS ARE FRESH UNLESS OTHERWISE INDICATED

7711232

LAUNCESTON. GEOLOGICAL LOG REPORT ATP EL2080 LAUNCESTON TENEMENT 2080

STRAT NAME	SEQ NO.	SEAM NAME	WORK SECT	SAMPLE NUMBER	DEPTH (m)	THICK (m)	ROCK TYPE	GEOLOGICAL DESCRIPTION OF STRATA
					0.30	0.30	SILT	Clayey; sandy; medium to dark red - brown; decomposed; medium dense; non-plastic;
								BASALT BOULDERS OCCASIONAL
					0.90	0.60	CLAY	Silty; medium to dark red - brown; decomposed; firm; high plasticity (clay).
					4.50	3.60	BASALT	Medium to dark grey - red; weathered; extremely high strength; tough;
								CHANGED TO ROLLER BIT AT 1.2M;
								CHANGED TO 120MM BLADES AT 4.5M
					7.90	3.40	SAND	Gravelly; lithic; light to medium orange - brown; medium dense; non-plastic; fine to coarse grained.
					10.50	2.60	CLAY	Kaolinitic; mottled grey - white; firm; high plasticity (clay);
								WITH SOME SAND
					11.00	0.50	LIGNEOUS CLAY	Medium to dark brown; firm; high plasticity (organic); Bands include: INFERIOR LIGNITE; clayey; medium to dark black - brown; firm; friable;
								LOW STRENGTH CLAY
					15.70	4.70	CLAY and LIGNEOUS CLAY	Interbedded 60:40. CLAY: carbonaceous; medium to dark brown - grey; firm; high plasticity (clay); LIGNEOUS CLAY: medium to dark brown; firm; high plasticity (organic).
					17.80	2.10	CLAY	Light to medium grey; firm; high plasticity (clay).

EL2080 LAUNCESTON. R0026

167 771233

STRAT NAME	SEQ NO.	SEAM NAME	WORK SECT	SAMPLE NUMBER	DEPTH (m)	THICK (m)	ROCK TYPE	GEOLOGICAL DESCRIPTION OF STRATA
					21.40	3.60	CLAY and INFERIOR LIGNITE and CLAY	Interbedded 40:30:30. CLAY: lignecus; light to medium brown; firm; high plasticity (clay); INFERIOR LIGNITE: claycy; humified; medium to dark brown - black; firm; friable; CLAY: carbonaceous; light to medium brown - grey; firm; high plasticity (clay); CIRCULATION POOR DUE TO CLAY BALLING * % OF LITHOLOGIES UNCERTAIN
					26.00	4.60	LIGNEOUS CLAY	Medium to dark brown; firm; low plasticity (organic); Bands include: CLAY; sandy; light to medium grey; firm; low plasticity (clay).
					34.80	8.80	SAND	Woody textured.
					36.50	1.70	LIGNEOUS CLAY	
					37.10	0.60	INFERIOR LIGNITE	Sandy.
					37.60	0.50	LIGNEOUS CLAY	Bands include: INFERIOR LIGNITE; humified; rooty.
					38.00	0.40	INFERIOR LIGNITE	Humified; sandy; medium to dark brown - black; firm; low plasticity (clay); Additional features include: crondy textured.
					38.50	0.50	CLAY	Sandy; light to medium grey - brown; firm; low plasticity (clay); abundant woody fragments.
					39.50	1.00	CLAY	Carbonaceous; medium to dark black - grey; firm; low plasticity (clay); Bands include: CLAY; light to medium grey; firm; low plasticity (clay).
					44.00	4.50	CLAY	Sandy; woody textured; light to medium grey; firm; low plasticity (clay); rare lignecus wisps.
					44.30	0.30	INFERIOR LIGNITE	Claycy; medium to dark black - brown; firm; low plasticity (organic).
					45.50	1.20	CLAY	Sandy; woody textured; light to medium grey; firm; low plasticity (clay).

168
7712234

169

STRAT NAME	SEQ NO.	SEAM NAME	WORK SECT	SAMPLE NUMBER	DEPTH (m)	THICK (m)	ROCK TYPE	GEOLOGICAL DESCRIPTION OF STRATA
					48.00	2.50	SAND	Clayey; light to medium grey - orange; loose; non-plastic; rare woody fragments; SAND POSSIBLY DERIVED FROM DOLERITE
					50.20	2.20	CLAY	Carbonaceous; medium to dark grey - black; firm; high plasticity (clay).
					51.00	0.80	CLAY	Sandy; light to medium grey - orange; firm; high plasticity (clay).
					52.00	1.00	SAND	Woody textured; light to medium grey; loose; non-plastic.
					52.30	0.30	SAND	Clayey; light to medium grey - brown; loose; non-plastic; occasional ligneous fragments.
					53.20	0.90	INFERIOR LIGNITE	Sandy; clayey; medium to dark brown; firm; low plasticity (organic).
					55.00	1.80	SAND	Clayey; light to medium brown - grey; loose; non-plastic.
					57.80	2.80	SAND	Woody textured; light to medium grey - brown; loose; non-plastic; SPONGY WOODY FRAGMENTS
					58.00	0.20	CLAY	Carbonaceous; medium to dark black - grey; firm; low plasticity (clay); rare woody fragments.
					58.80	0.80	LIGNEOUS CLAY	Medium to dark brown; firm; low plasticity (clay).
					60.40	1.60	INFERIOR LIGNITE	Clayey; sandy; medium to dark brown; firm; low plasticity (organic).
					60.80	0.40	CLAY	Sandy; woody textured; medium to dark brown - grey; firm; high plasticity (clay); Bands include: CLAY; carbonaceous; sandy; medium to dark black - brown; firm; high plasticity (clay).
					62.00	1.20	CLAY	Sandy; light to medium off white; firm; high plasticity (clay); common woody fragments.
					62.50	0.50	CLAY	Woody textured; ligneous; medium to dark black - brown; firm; low plasticity (organic).

771235

STRAT NAME	SEQ NO.	SEAM NAME	WORK SECT	SAMPLE NUMBER	DEPTH (m)	THICK (m)	ROCK TYPE	GEOLOGICAL DESCRIPTION OF STRATA
					63.80	1.30	SAND	Ligneous; clayey; medium to dark black - brown; firm; low plasticity (organic).
					65.20	1.40	INFERIOR LIGNITE	Sandy; clayey; medium to dark brown; firm; low plasticity (organic).
					66.00	0.80	INFERIOR LIGNITE	Peaty; sandy; medium to dark brown; firm; low plasticity (organic).
					66.50	0.50	CLAY	Ligneous; medium to dark brown; firm; low plasticity (clay).
					66.80	0.30	CLAY	Light to medium grey; firm; low plasticity (clay); common woody fragments.
					67.20	0.40	CLAY	Carbonaceous; medium to dark black - grey; firm; high plasticity (clay).
					68.30	1.10	INFERIOR LIGNITE	Sandy; spongy textured; medium to dark brown - black; firm; low plasticity (organic).
					69.00	0.70	CLAY	Sandy; woody textured; light to medium brown - grey; firm; low plasticity (clay).
					70.00	1.00	CLAY	Ligneous; medium to dark brown; firm; low plasticity (organic).
					70.40	0.40	INFERIOR LIGNITE	Sandy; spongy textured; medium to dark black - brown; firm; low plasticity (organic).
					71.00	0.60	CLAY	Sandy; medium to dark brown - grey; firm; high plasticity (clay).
					71.50	0.50	INFERIOR LIGNITE	Sandy; clayey; medium to dark brown - black; firm; low plasticity (organic).
					72.00	0.50	LIGNITE	Woody textured; sandy; medium to dark black - brown; firm; low plasticity (organic)? Additional features include: spongy textured.
					73.00	1.00	SAND	Ligneous; light to medium grey - brown; medium dense; non-plastic.
					73.80	0.80	SAND	Woody textured; light to medium grey - brown; medium dense; non-plastic.

170

771236

LAUNCESTON. GEOLOGICAL LOG REPORT ATP EL2080 LAUNCESTON TENEMENT 2080

STRAT NAME	SEQ NO.	SEAM NAME	WORK SECT	SAMPLE NUMBER	DEPTH (m)	THICK (m)	ROCK TYPE	GEOLOGICAL DESCRIPTION OF STRATA
					76.00	2.20	SAND	Clayey, woody textured, light to medium grey - brown, medium dense, non-plastic.
					77.50	1.50	CLAY	Lignaous, medium to dark brown, firm, low plasticity (organic).
					79.50	2.00	CLAY	Woody textured, sandy, medium to dark brown, firm, high plasticity (clay).

END OF BORE AT 79.50 m

771237

****
EL2080 LAUNCESTON. R0027
****

Easting: 535500.000
Northing: 5396800.000
Grid Type: Australian Mapping Grid
Accuracy: Approximate
Crl: 170.00
Datum: Approximate Level - Not Surveyed
Sheet Reference:
Sheet Index:
Total Depth: 32.00
Drilling Commenced: 15/11/81
Drilling Completed: 15/11/81
Inclination:
Azimuth:
Standing Water Level: 4.0

Available Data: Gamma Logs
Density Logs
Resistivity Logs
Caliper Logs

Logging Organisation: CSR Exploration and Evaluation Group
Logged By: ELLIS
Drilling Contractor: H.J. Stacpoole
Geophysical Logging: Murdoch Geophysics

County:
Parish:
Portion:

Plug Depths:
Hole Diameter: 120
Core Diameter:
Cased Depths:
Core Barrel:

Drill Bits: Blades
Rollers
Percussion

ALL ROCKS ARE FRESH UNLESS OTHERWISE INDICATED

113

STRAT NAME	SEQ NO.	SEAM NAME	WORK SECT	SAMPLE NUMBER	DEPTH (m)	THICK (m)	ROCK TYPE	GEOLOGICAL DESCRIPTION OF STRATA
TE					0.30	0.30	CLAY	Silty; sandy; light to medium orange - yellow; weathered; firm; low plasticity (clay).
TE					2.10	1.80	CLAY	Silty; gravelly; light to medium orange - yellow; weathered; firm; low plasticity (clay); Bands include: CLAY, silty; gravelly; mottled orange - yellow; weathered; firm; low plasticity (clay); Additional features include: grey;
								FERRUGINOUS GRAVEL, SOME QUARTZ; SOME *
								BANDS FERRICRETE OR FERRUGINOUS * CEMENTED GRAVEL
TE					2.80	0.70	GRAVEL	Clayey; mottled orange - yellow; weathered; medium dense; non-plastic; Additional features include: grey.
TE					3.70	0.90	CLAY	Gravelly; silty; mottled grey - orange; weathered; firm; low plasticity (clay).
TE					4.60	0.90	CLAY	Silty; light to medium grey; weathered; firm; high plasticity (clay).
TE					7.00	2.40	CLAY	Silty; light to medium orange - yellow; weathered; low strength; brittle; Additional features include: interbedded 60:40: brown; CLAY: silty; light to medium yellow - orange; weathered; soft; low plasticity (silt); Bands include: CLAY; silty; light to medium grey; weathered; firm; high plasticity (clay).
TE					8.10	1.10	SILT	Clayey; sandy; light to medium yellow - brown; weathered; soft; low plasticity (silt); very fine grained; Bands include: CLAY; light to medium grey; weathered; firm; high plasticity (clay); WITH SOME FINE GRAVEL
					9.70	1.60	CLAY	Silty; light to medium yellow - orange; weathered; firm; low plasticity (clay).
					14.30	4.60	CLAY	Silty; light to medium yellow - orange; weathered; firm; low plasticity (clay); fine to coarse grained.

771239

STRAT NAME	SEQ NO.	SEAM NAME	WORK SECT	SAMPLE NUMBER	DEPTH (m)	THICK (m)	ROCK TYPE	GEOLOGICAL DESCRIPTION OF STRATA
					23.00	8.70	CLAY	Interbedded 70:30; Additional features include: green; CLAY: silty; sandy; light to medium orange; weathered; firm; low plasticity (clay).
					24.50	1.50	CLAY	Silty; sandy; light to medium yellow - brown; weathered; low strength; brittle; Additional features include: green.
					25.70	1.20	CLAY	Light to medium green - grey; low strength; brittle.
					26.30	0.60	CLAY	Medium to dark green - grey; low strength; brittle.
					29.50	3.20	SILCRETE	Medium to dark green - grey; low strength; brittle; Bands include: CLAY; light to medium orange; low strength; brittle; Bands include: CLAY; light to medium green - grey; firm; low plasticity (clay); Additional features include: white.
					30.30	0.80	SILTSTONE	Silicified; medium to dark green - grey; high strength; brittle.
					32.00	1.70	SHALE	Silicified; medium to dark green - grey; extremely high strength; tough;
								CHANGED TO ROLLER BIT AT 31.3M *
								CHANGED TO HAMMER BIT AT 31.6M * SHALE CONTAINS DARK GREY-BLACK CARBONA * CEOUS BANDS, PYRITE AND PYRRHOTITE ON * CLEAVAGE PLAINS AND DISSEMINATED * SULFIDES WERE 'PANNED' FROM MUD PIT ON * SHOVELS * DRILLER REMARKED THAT LITHOLOGY * WAS PROBABLY THE MATHINNA SLATES * PRE TERTIARY BASEMENT OF PERMIAN? TO * SILURIAN AGE INTERSECTED FROM 8.1M * BASE WEATHERING 24.5M

END OF BORE AT 32.00 m

771240

****
EL2080 LAUNCESTON. P0028
****

Easting: 515500.000
Northing: 5277000.000
Grid Type: Australian Mapping Grid
Accuracy: Approximate
Crl:
Datum:
Sheet Reference:
Sheet Index:
Total Depth: 70.20
Drilling Commenced: 21/11/91
Drilling Completed: 21/11/91
Inclination:
Azimuth:
Standing Water Level: 2.6

Available Data: Gamma Logs
Density Logs
Resistivity Logs
Caliper Logs

Logging Organisation: CSR Exploration and Evaluation Group
Logged By: HINRICHS
Drilling Contractor: H.J. Stoeroole
Geophysical Logging: Murdoch Geophysics

County:
Parish:
Portion:

Plug Depths:
Hole Diameter: 150
Core Diameter:
Casad Depths:
Core Barrel:

Drill Bits: Blades

ALL ROCKS ARE FRESH UNLESS OTHERWISE INDICATED

143
2711241

STRAT NAME	SEQ NO.	SEAM NAME	WORK SECT	SAMPLE NUMBER	DEPTH (m)	THICK (m)	ROCK TYPE	GEOLOGICAL DESCRIPTION OF STRATA
TE					1.60	1.60	CLAY	Sandy; gravelly; light to medium orange - brown; weathered; firm; low plasticity (clay); fine and medium grained; Additional features include: quartzose; MEDIUM GRAVEL, WELL ROUNDED
TE					2.20	0.60	SAND	Clayey; quartzose; light to medium orange - grey; weathered; medium dense; non-plastic; fine and medium grained.
TE					4.40	2.20	CLAY	Sandy; quartzose; mottled pink - orange; firm; low plasticity (clay); abundant iron oxide; secondary staining; Additional features include: white - grey; Bands include: IRONSTONE - UN- DIFFERENTIATED; sandy; light to medium orange - brown; low strength; brittle.
TE					16.00	11.60	CLAY	Mottled buff - pink; firm; low plasticity (clay); Additional features include: yellow; WITH A TRACE OF SAND
TE					18.00	2.00	CLAY	Light to medium brown - khaki; firm; low plasticity (clay).
TE					43.00	25.00	CLAY and CLAY	Interbedded 80:20. CLAY: medium to dark grey; firm; low plasticity (clay); CLAY: light to medium brown - grey; firm; low plasticity (clay).
TE					48.00	5.00	CLAY and SILT	Interbedded 80:20. CLAY: silty; medium to dark grey; firm; low plasticity (clay); SILT: clayey; medium to dark grey; loose; non-plastic.
TE					59.50	11.50	SILT	Clayey; medium to dark grey - yellow; loose; non-plastic; fine grained.
TE					69.80	10.30	SAND	Woody textured; light to medium grey - green; loose; non-plastic; medium and coarse grained.
					70.20	0.40	SHALE	Silicified; light to medium grey; high strength; tough; PRE-TERTIARY BASEMENT INTERSECTED

END OF BORE AT 70.20 m

116
77242

****
EL2080 LAUNCESTON. R0029
****

Easting: 512720.000
Northing: 5390950.000
Grid Type: Australian Murring Grid
Accuracy: Approximate
Crl: 140.00
Datum: Approximate Level - Not Surveyed
Sheet Reference:
Sheet Index:
Total Depth:
Drilling Commenced: 22/11/81
Drilling Completed: 22/11/82
Inclination:
Azimuth:
Standing Water Level: 2.6

Available Data: Gamma Logs
Resistivity Logs

Logging Organisation: CSR Exploration and Evaluation Group
Logged By: HINRICHS
Drilling Contractor: H.J. Sperreole
Geophysical Logging: Murdoch Geophysics

County:
Parish:
Portion:

Plug Depths:
Hole Diameter:
Core Diameter: 150
Cased Depths:
Core Barrel:

Drill Bits: Blades

ALL ROCKS ARE FRESH UNLESS OTHERWISE INDICATED

77243

STRAT NAME	SEQ NO.	SEAM NAME	WORK SECT	SAMPLE NUMBER	DEPTH (m)	THICK (m)	ROCK TYPE	GEOLOGICAL DESCRIPTION OF STRATA
					0.50	0.50	SAND	Silty; medium to dark brown; weathered; medium dense; non-plastic; fine and medium grained.
					0.80	0.30	GRAVEL	Medium to dark brown - red; medium dense; non-plastic; iron oxide; cement.
					5.00	4.20	CLAY	Interbedded 50:50; Additional features include: buff; CLAY: mottled off white - yellow; firm; low plasticity (clay); Additional features include: buff.
					5.50	0.50	CLAY	Silty; light to medium buff; firm; low plasticity (clay).
					9.00	3.50	CLAY	Mottled buff - brown; firm; low plasticity (clay); Additional features include: off white; Bands include: CLAY; mottled buff - brown; stiff; low plasticity (clay); Additional features include: off white - yellow; Additional features include: pink;
								WITH SOME GRAVEL BANDS; CEMENTED IRON- *
								STONE BANDS
					16.00	7.00	CLAY	Mottled buff - grey; firm; high plasticity (clay); Additional features include: off white; Bands include: CLAY; mottled buff - orange; firm; high plasticity (clay);
								CHANGED CIRCUTING FLUID AT 16M
					23.50	7.50	CLAY	Silty; light to medium grey - brown; firm; low plasticity (clay); rare ligneous wisps;
								NON KERAGINOUS CLAY B
								Bands include: SIDERITE; 00.20 m thick; base at 0018.20m; light white - grey; low strength; brittle; Bands include: SIDERITE; 00.05 m thick; base at 0020.55m; light white - grey; low strength; brittle; Bands include: SIDERITE; 00.10 m thick; base at 0023.50m; light to medium brown; extremely high strength; tough.
					26.50	3.00	CLAY	Medium to dark grey; firm; high plasticity (clay).

7712441

STRAT NAME	SEQ NO.	SEAM NAME	WORK SECT	SAMPLE NUMBER	DEPTH (m)	THICK (m)	ROCK TYPE	GEOLOGICAL DESCRIPTION OF STRATA
					27.70	1.20	SILCRETE	Light to medium grey, high strength; brittle.
					29.00	1.30	CLAY	Medium to dark grey; firm; high plasticity (clay).
					33.00	4.00	SAND	Medium to dark grey; loose; non-plastic, common woody fragments.
					43.00	10.00	SAND and SAND	Interbedded 60:40. SAND: medium to dark grey; loose, non-plastic; fine grained; common woody fragments; SAND: woody textured; clayey; medium to dark grey; loose, non-plastic, medium and coarse grained; common woody fragments.
					45.00	2.00	SAND	Medium to dark grey; medium dense; non-plastic; medium and coarse grained.
					46.80	1.80	SAND	Woody textured; light to medium green - grey; medium dense; non-plastic; medium and coarse grained; common woody fragments.
					47.80	1.00	GRAVEL	Clayey; light to medium green - grey; medium dense; non-plastic; granular; Additional features include: pebbly;
								GRAVEL CONTAINS DOLERITE AND SANDSTONE *
								CLASTS *
								HOLE ABANDONED DUE TO BLOCKING OF BIT * THROUGH GRAVELS

END OF BORE AT 47.80 m

771245

180

****
EL2080 LAUNCESTON. R0030
****

Eastins: 500760.000
Northins: 5409790.000
Grid Type: Australian Mappins Grid
Accuracy: Approximate
Crl: 137.00
Datum: Approximate Level - Not Surveyed
Sheet Reference:
Sheet Index:
Total Depth: 83.00
Drillins Commenced: 23/11/81
Drillins Completed: 23/11/81
Inclination:
Azimuth:
Standins Water Level: 13.4

Available Data: Gamma Loss
Density Loss
Resistivity Loss
Caliper Loss

Loggins Organisation: CSR Exploration and Evaluation Group
Logged By: ELLIS
Drillins Contractor: H.J. Stacpoole
Geophysical Loggins: Murdoch Geophysics

County:
Parish:
Portion:

Plug Depths:
Hole Diameter: 150
Core Diameter:
Cased Depths:
Core Barrel:

Drill Bits: Blades

ALL ROCKS ARE FRESH UNLESS OTHERWISE INDICATED

771246

STRAT NAME	SEQ NO.	SEAM NAME	WORK SECT	SAMPLE NUMBER	DEPTH (m)	THICK (m)	ROCK TYPE	GEOLOGICAL DESCRIPTION OF STRATA
TE					0.50	0.50	SAND	Silty, medium to dark brown, medium dense, non-plastic, fine and medium grained;
								COALLY FRAGMENTS COMMON-FROM SPOILS *
								DUMP
TE					2.50	2.00	CLAY	Light to medium buff - yellow, firm, low plasticity (clay).
TE					3.20	0.70	CLAY	Mottled buff - yellow, firm, high plasticity (clay), gradational base; Additional features include: grey - pink;
								WITH A TRACE OF MEDIUM SAND, QUARTZ
TE					3.70	0.50	CLAY	Mottled off white - yellow, firm, low plasticity (clay);
								WITH A TRACE OF MEDIUM SAND, QUARTZ
TE					4.00	0.30	CLAY	Sandy, quartzose, mottled off white - yellow, firm, low plasticity (clay); Additional features include: orange;
								WITH SOME GRAVEL
TE					4.60	0.60	GRAVEL	Quartzose, clayey, mottled off white - orange, medium dense, non-plastic, abundant iron oxide, secondary, staining;
								WITH SOME MEDIUM GRAVEL
TE					5.40	0.80	SILT	Sandy, clayey, mottled orange - off white, medium dense, non-plastic, abundant iron oxide, secondary, staining.
TE					6.50	1.10	CLAY	Sandy, mottled orange - pink, firm, low plasticity (clay); Additional features include: brown - off white.
TE					9.40	2.90	SILT	Sandy, clayey, mottled orange - off white, medium dense, non-plastic, gradational base; Additional features include: gravelly.
TE					11.30	1.90	CLAY	Silty, sandy, mottled orange - off white, soft, non-plastic.

151
77124

STRAT NAME	SEQ NO.	SEAM NAME	WORK SECT	SAMPLE NUMBER	DEPTH (m)	THICK (m)	ROCK TYPE	GEOLOGICAL DESCRIPTION OF STRATA
					11.50	0.20	SILCRETE	Translucent; medium to dark green; high strength; brittle.
					15.50	4.00	SILT	Sandy, clayey, light to medium buff - orange, medium dense, non-plastic;
								WITH SOME GRAVEL
					19.30	3.80	CLAY	Silty, sandy; mottled orange - yellow, firm; low plasticity (clay); Additional features include: pink - off white.
					25.60	6.30	SILT	Clayey, sandy; mottled orange - yellow, firm; low plasticity (silt); Additional features include: pink - off white;
								BASE OF WEATHERING
					39.10	13.50	SAND	Silty; clayey; light to medium grey; medium dense; non-plastic; fine grained; poorly sorted; angular; abundant coaly fragments; Additional features include: feldspathic; quartzose; rounded.
					40.00	0.90	COAL	Dark black; low strength; brittle.
					55.00	15.00	SAND	Silty; clayey; light to medium grey; soft; non-plastic; fine and medium grained; common coaly fragments; Additional features include: feldspathic; quartzose.
					59.50	4.50	SILT	Clayey; light to medium grey; soft; low plasticity (silt); common coaly fragments; Additional features include: feldspathic; quartzose.
					63.10	3.60	SAND	Silty; clayey; light to medium grey; soft; non-plastic; Additional features include: feldspathic; quartzose.
					67.40	4.30	CLAY	Sandy; silty; light to medium grey; soft; low plasticity (clay); Additional features include: kaolinitic.
					71.60	4.20	SAND	Silty; clayey; light to medium grey; soft; non-plastic.
					72.75	1.15	COAL	Dark black; low strength; brittle.

7712148

STRAT NAME	SEQ NO.	SEAM NAME	WORK SECT	SAMPLE NUMBER	DEPTH (m)	THICK (m)	ROCK TYPE	GEOLOGICAL DESCRIPTION OF STRATA
					74.30	1.55	SAND	Clayey, light to medium grey, soft, non-plastic, very fine grained.
					74.70	0.40	COAL	Dark black, low strength, brittle.
					83.00	8.30	SILTSTONE	Sandy, light to medium grey, low strength, brittle, very fine grained.

END OF BORE AT 83.00 m

EL2080 LAUNCESTON. R0030

163

7712249

187

****
EL2080 LAUNCESTON. R0031
****

Eastina: 500200.000
Northina: 5109160.000
Grid Type: Australian Mapping Grid
Accuracy: Approximate
Grl: 138.00
Datum: Approximate Level - Not Surveyed
Sheet Reference:
Sheet Index:
Total Depth: 72.20
Drillina Commenced: 24/11/81
Drillina Completed: 25/11/81
Inclination:
Azimuth:
Standina Water Level: 16.1

Available Data: Gamma Logs
Density Logs
Resistivity Logs
Caliper Logs

Loggina Organisation: CSR Exploration and Evaluation Group
Logged By: ELLIS
Drillina Contractor: H.J. Stoerpole
Geophysical Loggina: Murdoch Geophysics

County:
Parish:
Portion:

Plug Depths:
Hole Diameter: 150
Core Diameter:
Cased Depths: 16.0
Core Barrel:

Drill Bits: Blades

ALL ROCKS ARE FRESH UNLESS OTHERWISE INDICATED

771250

STRAT NAME	SEQ NO.	BEAR NAME	WORK SECT	SAMPLE NUMBER	DEPTH (m)	THICK (m)	ROCK TYPE	GEOLOGICAL DESCRIPTION OF STRATA
					0.30	0.30	SAND	Silty; light to medium brown; weathered; medium dense; non-plastic; fine and medium grained.
					1.60	1.30	SAND	Clayey; light to medium yellow - buff; medium dense; non-plastic; fine and medium grained; Additional features include: orange.
					2.50	0.90	SAND	Clayey; light to medium yellow - buff; soft; non-plastic; fine and medium grained; Additional features include: orange.
					3.10	0.60	CLAY	Sandy; light to medium yellow - buff; soft; high plasticity (clay); fine and medium grained; Additional features include: orange.
					5.30	2.20	SAND	Quartzose; clayey; light to medium yellow - orange; medium dense; non-plastic; fine and medium grained; Additional features include: buff.
					6.50	1.20	CLAY	Sandy; light to medium yellow - orange; soft; high plasticity (clay); fine and medium grained; Additional features include: buff.
					11.00	4.50	SAND	Quartzose; clayey; light to medium yellow - orange; medium dense; non-plastic; fine and medium grained; Additional features include: buff.
					17.10	6.10	SAND and CLAY	Interbedded 90:10. SAND: quartzose; light to medium grey - yellow; medium dense; non-plastic; fine grained; CLAY: medium to dark grey; firm; low plasticity (clay); Bands include: INFERIOR LIGNITE; clayey; sandy; medium to dark black - brown; firm; low plasticity (carbonic).
					20.30	3.20	SAND	Quartzose; clayey; light to medium green - grey; medium dense; non-plastic; fine and medium grained; WITH SOME FINE GRAVEL
					26.00	5.70	SAND	Quartzose; clayey; light to medium green - grey; medium dense; non-plastic; fine to coarse grained; poorly sorted; subrounded; cement; undefined base; WITH SOME FINE GRAVEL, GRAVELS MORE ANGULAR THAN SAND

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771251

LAUNCESTON. GEOLOGICAL LOG REPORT ATP EL2080 TENEMENT 2080
LAUNCESTON

STRAT NAME	SEQ NO.	SEAM NAME	WORK SECT	SAMPLE NUMBER	DEPTH (m)	THICK (m)	ROCK TYPE	GEOLOGICAL DESCRIPTION OF STRATA
					37.20	11.20	SAND	Quartzose; clayey; light to medium grey; medium dense; non-plastic; fine grained; Additional features include: silty;
								INCREASED CLAY CONTENT OVER PREVIOUS * UNIT
					37.40	0.20	GRAVEL	Clayey, sandy; light to medium grey; medium dense; non-plastic;
								LOST CIRCULATION; LITHOLOGY UNSURE *
								SANDS DERIVED FROM A MATURE SOURCE, * CONTAINS TOURMALINE, RUTILE, HEAVY- * MINERALS
					42.60	5.20	SILT	Woody textured; sandy; light to medium grey; medium dense; non-plastic; fine grained.
					44.50	1.90	SILT	Peaty; sandy; medium to dark brown; medium dense; non-plastic; fine grained; Bands include: SAND; quartzose; clayey; light to medium grey; medium dense; non-plastic; fine grained.
					60.50	16.00	SAND	Silty; clayey; light to medium grey; medium dense; non-plastic; fine grained; rare woody fragments.
					71.30	10.80	SAND	Silty; light to medium grey; medium dense; non-plastic; fine grained; common woody fragments.
					71.50	0.20	SAND	Gravelly; quartzose; light to medium grey - yellow; medium dense; non-plastic; fine to coarse grained; common woody fragments.
					72.20	0.70	SANDSTONE	Quartzose; light to medium grey; high strength; brittle; medium grained;
								TRIASSIC STRATA; NOT LIKE COAL MEASURE *
								SEQUENCE, LOW PENETRATION RATE, NO * LITHIC OR WOODY FRAGMENTS

END OF BORE AT 72.20 m

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771252

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****
EL2080 LAUNCESTON. C0032
****

Easting: 495360.000
Northing: 5402160.000
Grid Type: Australian Mapping Grid
Accuracy: Approximate
Grl: 150.00
Datum: Approximate Level - Not Surveyed
Sheet Reference:
Sheet Index:
Total Depth: 50.21
Drilling Commenced: 28/11/81
Drilling Completed: 30/11/81
Inclination:
Azimuth:
Standing Water Level: 2.8

Available Data: Gamma Logs
Density Logs
Resistivity Logs
Caliper Logs

Logging Organisation: CSR Exploration and Evaluation Group
Logged By: HINRICHS
Drilling Contractor: H.J. Stacpoole
Geophysical Logging: Murdoch Geophysics

County:
Parish:
Portion:

Plug Depths:
Hole Diameter: 150
Core Diameter: 100
Cased Depths:
Core Barrel: Triefus Triple Barrel

Drill Bits: Blades
Rollers

ALL ROCKS ARE FRESH UNLESS OTHERWISE INDICATED

7711253

REPORT TC14-01 THIESS COAL SYSTEM PAGE 2 11/ 6/82 16:30:09

LAUNCESTON. GEOLOGICAL LOG REPORT ATP EL2080 LAUNCESTON TENEMENT 2080

STRAT NAME	SEQ NO.	SEAM NAME	WORK SECT	SAMPLE NUMBER	DEPTH (m)	THICK (m)	ROCK TYPE	GEOLOGICAL DESCRIPTION OF STRATA
				R	0.30	0.30	SOIL	Silty; sandy; light to medium grey; loose; non-plastic.
					2.10	1.80	SAND	Silty; clayey; light to medium yellow - grey; loose; non-plastic; coarsening upwards.
					3.20	1.10	SAND	Clayey; light to medium brown; loose; non-plastic.
					5.00	1.80	CLAY and CLAY	Interbedded 50:50. CLAY: sandy; light to medium red; firm; low plasticity (clay); CLAY: sandy; light to medium grey; firm; low plasticity (clay).
					6.15	1.15	CLAY	Ligneous; light to medium brown - grey; firm; low plasticity (organic); occasional ligneous fragments;
								MAY BE A WEATHERED/OXIDIZED LIGNITE
					8.70	2.55	CLAY	Light to medium grey - brown; firm; high plasticity (clay).
					9.35	0.65	SIDERITE	Light brown; low strength; brittle.
					12.40	3.05	CLAY	Ligneous; light to medium brown; firm; high plasticity (organic); occasional ligneous fragments.
					14.40	2.00	CLAY	Light to medium grey - brown; firm; high plasticity (clay); common ligneous fragments.
					19.85	5.45	CLAY	Light to medium grey; firm; high plasticity (clay); common manganese; secondary; nodules; Additional features include: common iron oxide; secondary; nodules; Bands include: SIDERITE; light brown; low strength; brittle.
					24.25	4.40	CLAY and LIGNEOUS CLAY	Interbedded 60:40. CLAY: medium to dark grey; firm; high plasticity (clay); LIGNEOUS CLAY: medium to dark brown - grey; firm; high plasticity (organic).
					36.10	11.85	CLAY	Silty; light to medium grey; firm; low plasticity (clay).
				C2685	36.16	0.06	SAND	Woody textured; medium to dark grey; stiff; friable; good core - unbroken; siderite; secondary; cement.
				C2685	36.27	0.11	CLAY	Ligneous; dark brown; firm; low plasticity (organic); good core - unbroken; sharp planar base.

0771254

STRAT NAME	SEQ NO.	SEAM NAME	WORK SECT	SAMPLE NUMBER	DEPTH (m)	THICK (m)	ROCK TYPE	GEOLOGICAL DESCRIPTION OF STRATA
				C2686	36.31	0.04	INFERIOR LIGNITE	Clayey, woody textured, medium to dark brown, firm, friable, good core - unbroken, sharp planar base.
				C2686	36.33	0.02	INFERIOR LIGNITE	Clayey, dark brown, firm, friable, good core - unbroken, sharp planar base.
				C2686	36.43	0.10	LIGNEOUS CLAY	Dark brown, firm, low plasticity (organic), good core - unbroken.
				C2686	36.49	0.06	LIGNITE	Dark brown - black, firm, friable, good core - unbroken.
				C2686	36.62	0.13	LIGNITE	Dark brown - black, firm, friable, good core - unbroken; COMMON CLAY WISPS
				C2686	36.70	0.08	LIGNEOUS CLAY	Medium to dark brown - grey, firm, low plasticity (organic), good core - unbroken, gradational base.
				C2686	36.73	0.03	INFERIOR LIGNITE	Clayey, dark brown, firm, friable, good core - unbroken.
				C2686	36.77	0.04	CLAY	Ligneous, medium to dark grey - brown, firm, low plasticity (clay), good core - unbroken.
				C2686	36.81	0.04	LIGNITE	Dark brown, firm, friable, good core - unbroken.
				C2686	36.82	0.01	CLAY	Ligneous, medium to dark brown - grey, firm, low plasticity (clay), good core - unbroken.
				C2686	36.89	0.07	LIGNITE	Medium to dark black - brown, firm, friable, good core - unbroken.
				C2686	36.91	0.02	CLAY	Light to medium brown - grey, firm, low plasticity (clay), good core - unbroken, sharp planar base, beds dip at 00 degrees.
				C2686	36.97	0.06	INFERIOR LIGNITE	Clayey, medium to dark brown, firm, friable, good core - unbroken; Bands include: CLAY, light to medium brown - grey, firm, low plasticity (clay), good core - unbroken.
				C2686	37.09	0.12	INFERIOR LIGNITE	Clayey, medium to dark brown - black, firm, friable, good core - unbroken; Bands include: LIGNITE, dark black - brown, firm, friable, good core - unbroken.

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741255

REPORT TC14-01 THIESS COAL SYSTEM PAGE 1 11/ 6/82 16:30:11

LAUNCESTON. GEOLOGICAL LOG REPORT ATP EL2080 LAUNCESTON TENEMENT 2080

STRAT NAME	SEQ NO.	SEAM NAME	WORK SECT	SAMPLE NUMBER	DEPTH (m)	THICK (m)	ROCK TYPE	GEOLOGICAL DESCRIPTION OF STRATA
				C2686	37.16	0.07	LIGNITE	Woody textured; dark brown - black; firm; friable; good core - unbroken.
				C2686	37.21	0.05	LIGNITE	Woody textured; clayey; dark brown - black; firm; friable; good core - unbroken; fissile.
				C2686	37.25	0.04	CLAY	Light to medium grey - brown; firm; low plasticity (clay); good core - unbroken.
				C2686	37.41	0.16	LIGNITE	Dark brown; firm; friable; good core - unbroken.
				C2686	37.42	0.01	CLAY	Light to medium brown - grey; firm; low plasticity (clay); good core - unbroken.
				C2686	37.48	0.06	INFERIOR LIGNITE	Clayey; dark brown; firm; friable; good core - unbroken; fissile.
				C2688	37.49	0.01	CLAY	Dark brown - grey; firm; low plasticity (clay); good core - unbroken.
				C2688	37.61	0.12	INFERIOR LIGNITE	Clayey; dark brown; firm; friable; good core - unbroken; COMMON CLAY BANDS
				C2688	37.67	0.06	LIGNEOUS CLAY	Light to medium brown; firm; low plasticity (organic); good core - unbroken.
				C2688	37.84	0.17	LIGNITE	Dark black - brown; firm; friable; good core - unbroken; rare resin addregates.
				C2688	37.89	0.05	INFERIOR LIGNITE	Clayey; dark brown - black; firm; friable; good core - unbroken; fissile; gradational base.
				C2688	37.94	0.05	CLAY	Light to medium brown; firm; low plasticity (clay); good core - unbroken; common woody fragments.
				C2688	37.99	0.05	INFERIOR LIGNITE	Clayey; dark brown; firm; friable; good core - unbroken; fissile.
				C2688	38.06	0.07	LIGNEOUS CLAY	Dark brown; firm; low plasticity (organic); good core - unbroken.

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STRAT NAME	SEQ NO.	SEAM NAME	WORK SECT	SAMPLE NUMBER	DEPTH (m)	THICK (m)	ROCK TYPE	GEOLOGICAL DESCRIPTION OF STRATA
				C2688	38.21	0.15	INFERIOR LIGNITE	Woody textured; clayey; dark brown - black; firm; friable; good core - unbroken; gradational base;
								HIGHER MOISTURE CONTENT; OCCASIONAL CLAY LENSES *
				C2688	38.26	0.05	CLAY	Lignous; medium to dark brown - grey; firm; low plasticity (clay); good core - unbroken.
				C2688	38.29	0.03	LIGNITE	Dark brown; firm; friable; good core - unbroken.
				C2688	38.41	0.12	INFERIOR LIGNITE	Clayey; dark brown - black; firm; friable; good core - unbroken; Bands include: CLAY; medium to dark brown - grey; firm; low plasticity (clay); good core - unbroken.
				C2689	38.44	0.03	LIGNEOUS CLAY	Dark brown - black; firm; high plasticity (organic); good core - unbroken.
				C2689	38.60	0.16	CLAY	Light to medium brown - grey; firm; high plasticity (clay); good core - unbroken; common ligneous wisps.
				C2689	38.69	0.09	CLAY	Ligneous; medium to dark brown - black; firm; high plasticity (clay); good core - unbroken; occasional ligneous wisps.
				C2689	38.71	0.02	INFERIOR LIGNITE	Clayey; dark brown; firm; friable; good core - unbroken.
				C	39.13	0.42	CORE LOSS	Good core - unbroken.
				C2690	39.17	0.04	SIDERITE	Light to medium brown; low strength; brittle; good core - unbroken.
				C2690	39.24	0.07	INFERIOR LIGNITE	Clayey; medium to dark brown; firm; friable; good core - unbroken; CLAY WISPS COMMON
				C2690	39.27	0.03	CLAY	Light to medium grey - brown; firm; low plasticity (clay); good core - unbroken.
				C2690	39.30	0.03	INFERIOR LIGNITE	Clayey; dark brown - black; firm; friable; good core - unbroken.

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771251

STRAT NAME	SEQ NO.	SEAM NAME	WORK SECT	SAMPLE NUMBER	DEPTH (m)	THICK (m)	ROCK TYPE	GEOLOGICAL DESCRIPTION OF STRATA
				C2690	39.45	0.15	LIGNEOUS CLAY	Medium to dark grey - brown, firm; low plasticity (organic), good core - unbroken.
				C2690	39.48	0.03	SIDERITE	Light to medium brown; low strength; brittle; good core - unbroken.
				C2690	39.53	0.05	INFERIOR LIGNITE	Clayey; dark brown, firm; friable; good core - unbroken; CLAY WISPS COMMON
				C2690	39.64	0.11	LIGNITE	Woody textured; clayey; medium to dark brown - black; firm; friable; good core - unbroken; fissile.
				C2690	39.76	0.12	LIGNEOUS CLAY	Dark brown; firm; low plasticity (organic); good core - unbroken.
				C2690	39.94	0.18	LIGNITE	Woody textured; clayey; dark brown - black; soft; friable; good core - unbroken; fissile.
				C2690	40.06	0.12	CLAY	Ligneous; light to medium brown - grey; firm; low plasticity (clay); good core - unbroken.
				C2690	40.09	0.03	INFERIOR LIGNITE	Clayey; medium to dark brown - black, firm; friable; good core - unbroken.
				C2690	40.11	0.02	CLAY	Medium to dark brown - grey; firm; low plasticity (clay), good core - unbroken.
				C2690	40.16	0.05	LIGNITE	Dark brown - black; firm; friable; good core - unbroken, gradational base.
				C2690	40.20	0.04	INFERIOR LIGNITE	Clayey; dark brown; firm, friable, good core - unbroken.
				C2690	40.25	0.05	LIGNITE	Woody textured; dark brown; firm; friable; good core - unbroken.
				C2690	40.31	0.06	CLAY	Ligneous; light to medium brown; firm; low plasticity (clay); good core - unbroken.
				C2690	40.35	0.04	LIGNITE	Dark brown - black; firm; friable; good core - unbroken; fissile.
				C2690	40.46	0.11	CLAY	Dark brown; firm; low plasticity (clay); good core - unbroken.

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STRAT NAME	SEQ NO.	SEAM NAME	WORK SECT	SAMPLE NUMBER	DEPTH (m)	THICK (m)	ROCK TYPE	GEOLOGICAL DESCRIPTION OF STRATA
				C2692	40.53	0.07	CLAY	Lisneous; dark brown; firm; low plasticity (clay); good core - unbroken.
				C2692	40.60	0.07	LIGNITE	Dark brown - black; firm; friable; good core - unbroken.
				C2692	40.63	0.03	CLAY	Lisneous; medium to dark brown; firm; low plasticity (clay); good core - unbroken.
				C2692	40.67	0.04	LIGNITE	Woody textured; dark brown; firm; friable; good core - unbroken;
								CLAY WISPS COMMON
				C2692	40.68	0.01	CLAY	Dark brown; firm; low plasticity (clay); good core - unbroken.
				C2692	40.79	0.11	LIGNITE	Woody textured; dark brown - black; firm; low plasticity (organic); good core - unbroken.
				C2693	40.87	0.08	LIGNITE	Dark brown - black; firm; friable; good core - unbroken;
								WITH A SLIGHT CLAY CONTENT/TRACE OF CLAY
				C2693	41.03	0.16	LIGNITE	Woody textured; dark brown - black; soft; friable; good core - unbroken; fissile;
								HIGH MOISTURE CONTENT
				C2693	41.12	0.09	CORE LOSS	
				C2694	41.20	0.08	INFERIOR LIGNITE	Woody textured; clayey; dark brown - black; firm; friable; good core - unbroken; fissile.
				C2694	41.23	0.03	CLAY	Light to medium grey; firm; high plasticity (clay); good core - unbroken.
				C2694	41.84	0.61	LIGNITE	Dark brown - black; firm; friable; good core - unbroken;
								OCCASIONAL WOODY BANDS

771259

STRAT NAME	SEQ NO.	SEAM NAME	WORK SECT	SAMPLE NUMBER	DEPTH (m)	THICK (m)	ROCK TYPE	GEOLOGICAL DESCRIPTION OF STRATA
				C2695	41.98	0.14	LIGNITE	Dark brown; firm; friable; good core - unbroken; fissile; gradational base; beds dip at 10 degrees;
								OCCASIONAL WOODY BANDS; IRREGULAR INTERNAL *
								DIP, NOT PLANAR; LOOKS LIKE CROSS BEDS * UP TO 10 DEGREES
				C2695	42.02	0.04	INFERIOR LIGNITE	Clayey; dark brown; firm; friable; good core - unbroken; fissile; gradational base;
								INTERNAL DIP 5 DEGREES
				C2696	42.16	0.14	CLAY	Light to medium grey - brown; firm; high plasticity (clay); good core - unbroken; occasional ligneous wisps.
				C2696	42.30	0.14	INFERIOR LIGNITE	Clayey; dark brown - black; firm; friable; good core - unbroken.
				C2696	42.46	0.16	INFERIOR LIGNITE	Clayey; dark brown - black; firm; friable; good core - unbroken; fissile;
								DIPS UP TO 4 DEGREES
				C2696	42.52	0.06	INFERIOR LIGNITE	Clayey; dark brown - black; firm; low plasticity (organic); good core - unbroken; gradational base.
				C2696	42.61	0.09	INFERIOR LIGNITE	Clayey; dark brown - black; firm; friable; good core - unbroken; fissile; abundant woody fragments;
								INTERNAL DIP UP TO 10 DEGREES
				C2696	42.72	0.11	LIGNEOUS CLAY	Dark brown; firm; high plasticity (clay); good core - unbroken; abundant woody fragments.
				C2697	42.80	0.08	LIGNITE	Woody textured; dark black - brown; firm; slickensides on fracture; friable; abundant; oblique joints; multi-directional joints; core broken;
								ORIENTATION OF JOINTS NOT MEASURABLE DUE *
								TO BROKEN CORE

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077260

STRAT NAME	SEQ NO.	SEAM NAME	WORK SECT	SAMPLE NUMBER	DEPTH (m)	THICK (m)	ROCK TYPE	GEOLOGICAL DESCRIPTION OF STRATA
				C2697	43.02	0.22	INFERIOR LIGNITE	Woody textured; clayey; dark brown; firm; friable; good core - unbroken; fissile; gradational base;
								INTERNAL DIP 10 DEGREES B
								Bands include: INFERIOR LIGNITE; clayey; dark brown; firm; low plasticity (organic).
				C2698	43.28	0.26	LIGNITE	Dark brown; firm; friable; good core - unbroken; sharp planar base; beds dip at 10 degrees.
				C2698	43.42	0.14	LIGNEOUS CLAY	Medium to dark brown; firm; low plasticity (organic); good core - unbroken; abundant woody fragments.
				C2698	43.68	0.26	INFERIOR LIGNITE	Woody textured; dark brown; firm; friable; good core - unbroken; fissile; abundant woody fragments; Additional features include: good core - unbroken; fibrous; Bands include: LIGNEOUS CLAY; medium to dark brown; firm; low plasticity (organic); good core - unbroken.
				C2698	43.87	0.19	CLAY	Light to medium grey - brown; firm; high plasticity (clay); good core - unbroken; abundant woody fragments; Additional features include: good core - unbroken; abundant ligneous wisps.
				C	43.93	0.06	CORE LOSS	Good core - unbroken.
				C2699	44.00	0.07	CLAY	Ligneous; dark brown; firm; low plasticity (clay); good core - unbroken.
				C2699	44.03	0.03	INFERIOR LIGNITE	Woody textured; clayey; dark brown; firm; friable; good core - unbroken; fissile; common resin aggregates.
				C2699	44.18	0.15	CLAY	Ligneous; dark brown; firm; low plasticity (clay); good core - unbroken; common woody fragments.
				C2699	44.21	0.03	LIGNEOUS CLAY	Dark brown; firm; low plasticity (organic); good core - unbroken; abundant woody fragments.
				C2699	44.25	0.04	CLAY	Medium to dark brown; firm; high plasticity (clay); good core - unbroken; abundant woody fragments.
				C2699	44.36	0.11	CLAY	Medium to dark grey - brown; firm; high plasticity (clay); good core - unbroken; common ligneous wisps.

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STRAT NAME	SEQ NO.	SEAM NAME	WORK SECT	SAMPLE NUMBER	DEPTH (m)	THICK (m)	ROCK TYPE	GEOLOGICAL DESCRIPTION OF STRATA
				C2699	44.44	0.08	LIGNEOUS CLAY	Dark brown; firm; low plasticity (organic); good core - unbroken; gradational base; abundant woody fragments.
				C2699	44.49	0.05	INFERIOR LIGNITE	Clayey; medium to dark black - brown; firm; friable; good core - unbroken.
				C2670	44.51	0.02	INFERIOR LIGNITE	Woody textured; dark brown - black; firm; friable; good core - unbroken; fissile.
				C2670	44.57	0.06	LIGNITE	Woody textured; clayey; dark brown; firm; friable; good core - unbroken; fissile.
				C2670	44.62	0.05	INFERIOR LIGNITE	Clayey; dark brown; firm; friable; good core - unbroken; common woody fragments.
				C2670	44.77	0.15	LIGNEOUS CLAY	Medium to dark brown - grey; firm; high plasticity (organic); good core - unbroken.
				C2702	44.84	0.07	INFERIOR LIGNITE	Clayey; dark black - brown; soft; friable; good core - unbroken; fissile.
				C2702	44.90	0.06	INFERIOR LIGNITE	Clayey; dark brown; soft; friable; good core - unbroken; fissile.
				C2702	45.07	0.17	INFERIOR LIGNITE	Woody textured; dark brown - black; firm; friable; good core - unbroken; fissile.
				C2702	45.19	0.12	LIGNEOUS CLAY	Dark brown; firm; low plasticity (organic); good core - unbroken; subfissile; common woody fragments.
				C2702	45.22	0.03	INFERIOR LIGNITE	Woody textured; dark brown; firm; friable; good core - unbroken.
				C2702	45.29	0.07	CLAY	Ligneous; dark brown; firm; high plasticity (clay); good core - unbroken; subfissile; gradational base; abundant woody fragments.
				C2702	45.37	0.08	INFERIOR LIGNITE	Clayey; woody textured; dark brown; firm; friable; good core - unbroken; fissile.
				C2702	45.42	0.05	CLAY	Ligneous; dark brown; firm; low plasticity (clay); good core - unbroken; subfissile.
				C2702	45.57	0.15	INFERIOR LIGNITE	Clayey; dark brown; firm; friable; good core - unbroken; subfissile.

771262

STRAT NAME	SEQ NO.	SEAM NAME	WORK SECT	SAMPLE NUMBER	DEPTH (m)	THICK (m)	ROCK TYPE	GEOLOGICAL DESCRIPTION OF STRATA
				C2702	45.60	0.03	LIGNITE	Dark brown - black, firm, friable, good core - unbroken.
				C2702	45.81	0.21	CLAY	Ligneous, medium to dark brown, firm, high plasticity (clay), good core - unbroken, subfissile, abundant ligneous wisps.
				C2702	45.99	0.18	INFERIOR LIGNITE and CLAY	Interbedded 70:30. INFERIOR LIGNITE: clayey, dark brown - black, firm, friable, good core - unbroken, subfissile; CLAY: ligneous, medium to dark brown - grey, firm, high plasticity (clay), good core - unbroken.
				C2702	46.10	0.11	LIGNEOUS CLAY	Dark brown, firm, high plasticity (organic), good core - unbroken, subfissile, abundant ligneous wisps.
				C2702	46.16	0.06	INFERIOR LIGNITE	Clayey, dark brown - black, firm, friable, good core - unbroken.
					46.80	0.64	CORE LOSS	
								CLEANED HOLE WITH ROLLER BIT DUE TO GRAVEL *
								SIZE SIDERITE FRAGMENTS GRINDING CORE
				R	47.22	0.42	NO RECORD	
								CHIPPED DUE TO DRILLER ERROR
				C2703	47.41	0.19	CLAY	Ligneous, dark brown, firm, low plasticity (clay), good core - unbroken.
				C2703	47.43	0.02	CLAY	Dark brown - grey, firm, low plasticity (clay), good core - unbroken, common ligneous wisps.
				C2703	47.49	0.06	CLAY	Ligneous, dark brown, firm, low plasticity (clay), good core - unbroken, common woody fragments; Additional features include: good core - unbroken, common resin aggregates.
				C2703	47.55	0.06	LIGNEOUS CLAY	Dark brown, firm, low plasticity (organic), good core - unbroken.
				C2703	47.62	0.07	INFERIOR LIGNITE	Clayey, dark brown - black, firm, friable, good core - unbroken;
								CLAY WISPS COMMON

200
771263

STRAT NAME	SEQ NO.	SEAM NAME	WORK SECT	SAMPLE NUMBER	DEPTH (m)	THICK (m)	ROCK TYPE	GEOLOGICAL DESCRIPTION OF STRATA
				C2703	47.77	0.15	LIGNEOUS CLAY	Dark brown; firm; low plasticity (organic); good core - unbroken; occasional woody fragments.
				C2703	47.82	0.05	INFERIOR LIGNITE	Clayey; dark brown - black; firm; friable; good core - unbroken; subfissile.
				C2703	48.26	0.44	LIGNEOUS CLAY	Dark brown; firm; low plasticity (organic); good core - unbroken; occasional woody fragments; Additional features include: good core - unbroken; occasional resin aggregates.
				C2703	48.31	0.05	LIGNITE	Woody textured; clayey; dark black - brown; firm; friable; good core - unbroken; fissile; CLAY WISPS COMMON
				C2705	48.47	0.16	LIGNEOUS CLAY	Dark brown - black; firm; low plasticity (organic); good core - unbroken; WOODY BANDS COMMON
				C2705	48.54	0.07	CLAY	Ligneous; medium to dark brown - grey; firm; low plasticity (clay); good core - unbroken; WOODY BANDS COMMON
				C2705	48.86	0.32	CLAY	Ligneous; medium to dark brown; firm; high plasticity (clay); good core - unbroken; common woody fragments; Additional features include: occasional resin aggregates.
				C2705	49.10	0.24	CLAY	Light to medium grey - brown; firm; low plasticity (clay); good core - unbroken; occasional woody fragments.
				C2705	49.20	0.10	CLAY	Light to medium grey - brown; firm; low plasticity (clay); good core - unbroken.
				C2705	49.28	0.08	CLAY	Light to medium brown - grey; firm; low plasticity (clay); good core - unbroken; common ligneous wisps.

STRAT NAME	SEQ NO.	SEAM NAME	WORK SECT	SAMPLE NUMBER	DEPTH (m)	THICK (m)	ROCK TYPE	GEOLOGICAL DESCRIPTION OF STRATA
				C2705	49.53	0.25	CLAY	Light to medium grey - brown; firm; high plasticity (clay); good core - unbroken; rare resin aggregates;
								CARBONACEOUS FRAGMENTS RARE
				C2706	49.72	0.19	INFERIOR LIGNITE	Clayey; dark brown; firm; friable; good core - unbroken; subfissile; common bioturbation.
				C2706	49.94	0.22	CLAY	Lignaous; medium to dark brown; firm; low plasticity (clay); good core - unbroken; occasional woody fragments.
				C2706	50.21	0.27	CLAY	Light to medium grey - brown; firm; slickensides on fracture; high plasticity (clay); sparse; oblique joints; angle of joints 30 degrees; good core - unbroken.

END OF BORE AT 50.21 m

EL2080 LAUNCESTON. C0032

202
721265

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EL2080 LAUNCESTON. C0033
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Eastins:	496690.000
Northins:	5410550.000
Grid Type:	Australian Mapping Grid
Accuracy:	Approximate
Crl:	150.00
Datum:	Approximate Level - Not Surveyed
Sheet Reference:	
Sheet Index:	
Total Depth:	39.67
Drilling Commenced:	06/12/81
Drilling Completed:	07/12/81
Inclination:	
Azimuth:	
Standing Water Level:	7.1
Available Data:	Gamma Logs
	Density Logs
	Resistivity Logs
	Caliper Logs

Logging Organisation:	CSR Exploration and Evaluation Group
Logged By:	ELLIS
Drilling Contractor:	H.J. Stapoole
Geophysical Logging:	Murdoch Geophysics
County:	
Parish:	
Portion:	
Plug Depths:	
Hole Diameter:	150
Core Diameter:	100
Cased Depths:	6.0
Core Barrel:	Triefus Triple Barrel
Drill Bits:	Blades
	Rollers

ALL ROCKS ARE FRESH UNLESS OTHERWISE INDICATED

E03
771266

LAUNCESTON. GEOLOGICAL LOG REPORT ATP EL2080 LAUNCESTON TENEMENT 2080

STRAT NAME	SEQ NO.	SEAM NAME	WORK SECT	SAMPLE NUMBER	DEPTH (m)	THICK (m)	ROCK TYPE	GEOLOGICAL DESCRIPTION OF STRATA
				R	27.04	27.04	NO RECORD	
				C2867	27.11	0.07	INFERIOR LIGNITE	Clayey; dark brown - black; firm; friable; good core - unbroken; subfissile; sharp planar base; beds dip at 02 degrees; occasional bioturbation; Additional features include: common leaf fragments; LOOKS LIKE CARBONACEOUS SHALE
				C2867	27.19	0.08	LIGNEOUS CLAY	Dark brown; firm; low plasticity (clay); good core - unbroken; Bands include: INFERIOR LIGNITE; clayey; dark brown; firm; friable; good core - unbroken.
				C2867	27.20	0.01	CLAY	Light to medium brown - grey; firm; high plasticity (clay); good core - unbroken.
				C2867	27.30	0.10	INFERIOR LIGNITE	Clayey; dark brown; firm; friable; good core - unbroken; subfissile; rare bioturbation; Additional features include: good core - unbroken; common leaf fragments.
				C2867	27.36	0.06	CLAY	Light to medium brown; firm; high plasticity (clay); good core - unbroken; common ligneous wisps.
				C2867	27.51	0.15	CLAY	Ligneous; medium to dark brown; firm; low plasticity (clay); good core - unbroken; Bands include: CLAY; light to medium grey - brown; firm; high plasticity (clay); good core - unbroken; gradational base; common woody wisps.
				C2867	27.57	0.06	CLAY	Light to medium brown - grey; firm; high plasticity (clay); good core - unbroken; occasional ligneous wisps.
				C2867	27.73	0.16	CLAY	Carbonaceous; mottled brown - grey; firm; high plasticity (clay); good core - unbroken; common bioturbation; Additional features include: good core - unbroken; common woody fragments.
				C2867	27.76	0.03	LIGNEOUS CLAY	Dark brown; firm; low plasticity (organic); good core - unbroken.
				C2867	27.79	0.03	CLAY	Light to medium brown; firm; high plasticity (clay); good core - unbroken.

471267

STRAT NAME	SEQ NO.	SEAM NAME	WORK SECT	SAMPLE NUMBER	DEPTH (m)	THICK (m)	ROCK TYPE	GEOLOGICAL DESCRIPTION OF STRATA
					28.26	0.47	CORE LOSS	
				C2868	28.35	0.09	CLAY	Light to medium brown; firm; high plasticity (clay); good core - unbroken; common bioturbation.
				C2868	28.52	0.17	CLAY	Light to medium brown - grey; firm; high plasticity (clay); good core - unbroken; rare ligneous wisps; Additional features include: common bioturbation.
				C2868	28.56	0.04	CLAY	Light to medium brown; firm; high plasticity (clay); good core - unbroken; common bioturbation.
				C2868	28.62	0.06	INFERIOR LIGNITE	Clayey; dark brown; firm; high plasticity (organic); good core - unbroken; common bioturbation.
				C2868	28.72	0.10	INFERIOR LIGNITE	Clayey; dark brown; firm; friable; good core - unbroken; abundant bioturbation.
				C2868	29.08	0.36	CLAY	Light to medium grey - brown; firm; high plasticity (clay); good core - unbroken; common bioturbation.
				C2868	29.20	0.12	CLAY	Light to medium brown; firm; high plasticity (clay); good core - unbroken.
				C2869	29.31	0.11	INFERIOR LIGNITE	Clayey; dark brown; firm; friable; good core - unbroken; abundant bioturbation.
				C2869	29.36	0.05	CLAY	Light to medium brown - grey; firm; high plasticity (clay); good core - unbroken.
				C2869	29.39	0.03	INFERIOR LIGNITE	Clayey; dark brown; firm; friable; good core - unbroken; abundant bioturbation.
				C2869	29.40	0.01	CLAY	Light to medium brown - grey; firm; high plasticity (clay); good core - unbroken.
				C2869	29.44	0.04	LIGNEOUS CLAY	Dark brown; firm; friable; good core - unbroken; common ligneous wisps; Bands include: CLAY; light to medium brown - grey; firm; high plasticity (clay); good core - unbroken; common bioturbation.
				C2869	29.47	0.03	INFERIOR LIGNITE	Clayey; dark brown; firm; friable; good core - unbroken; common bioturbation.
				C2869	29.55	0.08	CLAY	Light to medium brown; firm; high plasticity (clay); good core - unbroken; occasional ligneous wisps.

203
7912688

STRAT NAME	SEQ NO.	SEAM NAME	WORK SECT	SAMPLE NUMBER	DEPTH (m)	THICK (m)	ROCK TYPE	GEOLOGICAL DESCRIPTION OF STRATA
				C2869	29.56	0.01	LIGNEOUS CLAY	Dark brown; firm; high plasticity (clay); good core - unbroken; common bioturbation.
				C2869	29.62	0.06	CLAY	Light to medium brown - grey; firm; high plasticity (clay); good core - unbroken.
				C2869	29.68	0.06	LIGNEOUS CLAY	Dark brown; firm; low plasticity (clay); good core - unbroken; occasional woody wisps.
				C2869	29.82	0.14	INFERIOR LIGNITE	Clayey; dark brown; firm; friable; good core - unbroken; fissile; abundant bioturbation.
				C2869	30.00	0.18	CLAY	Light to medium brown; firm; high plasticity (clay); good core - unbroken.
				C2869	30.18	0.18	CLAY	Ligneous; medium to dark brown - grey; firm; low plasticity (clay); good core - unbroken; abundant bioturbation.
				C2869	30.25	0.07	INFERIOR LIGNITE	Clayey; dark brown; firm; friable; good core - unbroken; abundant bioturbation.
				C2869	30.34	0.09	CLAY	Light to medium brown; firm; high plasticity (clay); good core - unbroken; subfissile; abundant bioturbation.
				C2869	30.95	0.61	CLAY	Light to medium brown; firm; high plasticity (clay); good core - unbroken; occasional woody fragments.
				C2869	30.98	0.03	LIGNITE	Clayey; dark brown - black; firm; friable; good core - unbroken.
				C2869	31.15	0.17	CLAY	Medium to dark brown; firm; high plasticity (clay); good core - unbroken; occasional woody wisps.
				C2870	31.31	0.16	INFERIOR LIGNITE	Clayey; dark brown - black; firm; friable; good core - unbroken; common woody fragments; Additional features include: occasional bioturbation.
				C2870	31.38	0.07	CORE LOSS	
				C2870	31.62	0.24	INFERIOR LIGNITE	Clayey; woody textured; dark brown - black; firm; friable; good core - unbroken; common bioturbation; Additional features include: good core - unbroken; common resin aggregates.
				C2871	31.67	0.05	CLAY	Medium to dark brown; firm; high plasticity (clay); good core - unbroken.

771269

STRAT NAME	SEQ NO.	SEAM NAME	WORK SECT	SAMPLE NUMBER	DEPTH (m)	THICK (m)	ROCK TYPE	GEOLOGICAL DESCRIPTION OF STRATA
				C2871	31.81	0.14	CLAY	Light to medium brown; firm; high plasticity (clay), good core - unbroken; sharp irregular base; woody fragments;
								EROSIONAL CONTACT WITH UNDERLYING UNIT
				C2872	32.04	0.23	LIGNITE	Dark brown - black; firm; friable; good core - unbroken; occasional bioturbation; Additional features include: good core - unbroken; common woody fragments.
				C2872	32.09	0.05	INFERIOR LIGNITE	Clayey; dark brown - black; firm; friable; good core - unbroken; common woody fragments; Additional features include: good core - unbroken; occasional bioturbation.
				C2873	32.29	0.20	INFERIOR LIGNITE	Clayey; dark brown - black; firm; friable; good core - unbroken; common woody fragments; Additional features include: good core - unbroken; common resin aggregates.
				C2873	32.56	0.27	LIGNEOUS CLAY	Medium to dark brown; firm; low plasticity (clay); good core - unbroken; common woody fragments.
				C2873	32.63	0.07	LIGNITE	Dark brown; firm; friable; good core - unbroken; sharp oblique base; beds dip at 15 degrees.
				C2873	32.66	0.03	INFERIOR LIGNITE	Clayey; medium to dark brown; firm; friable; good core - unbroken; sharp oblique base; beds dip at 20 degrees.
				C2873	32.77	0.11	LIGNITE	Dark brown - black; firm; friable; good core - unbroken.
				C2873	32.92	0.15	LIGNEOUS CLAY	Medium to dark brown; firm; low plasticity (organic); good core - unbroken; abundant ligneous wisps.
				C2874	32.98	0.06	CLAY	Ligneous; medium to dark brown; firm; low plasticity (clay); good core - unbroken; occasional resin aggregates; Additional features include: good core - unbroken; occasional woody fragments.
				C2874	33.05	0.07	CLAY	Light to medium grey; firm; low plasticity (clay); good core - unbroken; gradational base; occasional woody fragments.
				C2874	33.13	0.08	CLAY	Ligneous; medium to dark brown; firm; low plasticity (clay); good core - unbroken.

271270

LAUNCESTON. GEOLOGICAL LOG REPORT ATP EL2080 LAUNCESTON TENEMENT 2080

STRAT NAME	SEQ NO.	SEAM NAME	WORK SECT	SAMPLE NUMBER	DEPTH (m)	THICK (m)	ROCK TYPE	GEOLOGICAL DESCRIPTION OF STRATA
				C2874	33.20	0.07	CLAY	Light to medium brown; firm; high plasticity (clay); good core - unbroken.
					33.34	0.14	CORE LOSS	
				C2875	33.47	0.13	INFERIOR LIGNITE	Clayey; dark brown; firm; friable; good core - unbroken.
				C2875	33.50	0.03	LIGNEOUS CLAY	Medium to dark brown; firm; high plasticity (organic).
				C2875	33.59	0.09	INFERIOR LIGNITE	Clayey; dark brown - black; firm; friable; subfissile.
				C2875	33.73	0.14	LIGNEOUS CLAY	Dark brown; firm; high plasticity (clay); abundant woody fragments.
				C2875	34.00	0.27	INFERIOR LIGNITE	Clayey; dark brown - black; firm; friable; Bands include: LIGNEOUS CLAY; dark brown; firm; high plasticity (clay); common woody fragments.
				C2875	34.06	0.06	INFERIOR LIGNITE	Clayey; dark brown - black; firm; friable.
				C2875	34.13	0.07	LIGNEOUS CLAY	Dark brown - grey; firm; low plasticity (clay); WITH WISPS OF LIGHT TO MID
				C2875	34.22	0.09	INFERIOR LIGNITE	Clayey; dark brown - black; firm; friable.
				C2875	34.55	0.33	INFERIOR LIGNITE	Clayey; dark brown; firm; friable; good core - unbroken; abundant woody fragments.
				C2875	34.60	0.05	INFERIOR LIGNITE	Clayey; dark brown - black; firm; friable; good core - unbroken; fissile; HIGHER MOISTURE CONTENT THAN PREVIOUS UNIT *
				C2875	34.64	0.04	LIGNITE	Woody textured; dark brown - black; firm; friable; good core - unbroken.
				C2877	34.68	0.04	LIGNEOUS CLAY	Dark brown; firm; low plasticity (clay); good core - unbroken; subfissile.
				C2877	34.74	0.06	CLAY	Light to medium brown; firm; high plasticity (clay); good core - unbroken.

771271

STRAT NAME	SEQ NO.	SEAM NAME	WORK SECT	SAMPLE NUMBER	DEPTH (m)	THICK (m)	ROCK TYPE	GEOLOGICAL DESCRIPTION OF STRATA
				C2877	34.89	0.15	INFERIOR LIGNITE	Clayey; dark brown - grey; firm; low plasticity (organic), good core - unbroken; subfissile; gradational base.
				C2877	34.94	0.05	CLAY	Light to medium brown - grey; firm; high plasticity (clay), good core - unbroken.
				C2877	34.99	0.05	INFERIOR LIGNITE	Dark brown - black; firm; low plasticity (organic), good core - unbroken.
				C2877	35.15	0.16	LIGNITE	Dark brown - black; firm; friable; good core - unbroken.
				C2877	35.23	0.08	LIGNEOUS CLAY	Dark brown - grey; firm; low plasticity (organic), good core - unbroken.
				C2877	35.32	0.09	LIGNITE	Clayey, dark brown - black; firm; friable, good core - unbroken.
				C2877	35.42	0.10	INFERIOR LIGNITE	Clayey; dark brown - black; firm; low plasticity (organic), good core - unbroken; common woody fragments.
				C2877	35.48	0.06	INFERIOR LIGNITE	Clayey; dark brown - black; firm; friable; good core - unbroken.
				C2877	35.75	0.27	LIGNEOUS CLAY	Dark brown; firm; high plasticity (organic); good core - unbroken; abundant woody fragments; Additional features include: good core - unbroken; abundant ligneous wisps.
				C2877	35.82	0.07	LIGNITE	Dark brown - black; firm; friable; good core - unbroken.
				C2878	36.23	0.41	LIGNEOUS CLAY	Dark brown - black; firm; low plasticity (organic), good core - unbroken.
				C2878	36.46	0.23	LIGNEOUS CLAY	Dark brown - black; firm; cool cleat; low plasticity (organic); sparse; subvertical joints; vertical joints, good core - unbroken.
				C2879	36.49	0.03	CLAY	Medium to dark brown; firm; high plasticity (clay), good core - unbroken.
				C2879	36.52	0.03	LIGNITE	Woody textured; clayey; medium to dark brown - black; firm; friable; good core - unbroken.

771212

STRAT NAME	SEQ NO.	SEAM NAME	WORK SECT	SAMPLE NUMBER	DEPTH (m)	THICK (m)	ROCK TYPE	GEOLOGICAL DESCRIPTION OF STRATA
				C2879	36.63	0.11	CLAY	Medium to dark brown; firm; high plasticity (clay); good core - unbroken; Bands include: LIGNEOUS CLAY, dark brown, firm, low plasticity (clay), good core - unbroken.
				C2879	36.67	0.04	INFERIOR LIGNITE	Clayey; dark brown - black; firm; friable; good core - unbroken.
				C2879	36.72	0.05	CLAY	Ligneous; medium to dark brown; firm; high plasticity (clay), good core - unbroken.
				C2879	36.77	0.05	INFERIOR LIGNITE	Clayey; dark brown; firm; friable; good core - unbroken.
				C2879	36.79	0.02	CLAY	Light grey - brown; firm; high plasticity (clay), good core - unbroken.
				C2879	36.85	0.06	INFERIOR LIGNITE	Clayey; dark brown - black; firm; friable; good core - unbroken; subfissile.
				C2879	36.87	0.02	LIGNEOUS CLAY	Medium to dark brown; firm; high plasticity (clay); good core - unbroken; gradational base.
				C2879	36.88	0.01	CLAY	Light to medium brown; firm; high plasticity (clay), good core - unbroken.
				C2879	36.95	0.07	INFERIOR LIGNITE	Clayey; dark brown; firm; friable; good core - unbroken.
				C2879	37.03	0.08	INFERIOR LIGNITE and LIGNEOUS CLAY	Interbedded 60:40. INFERIOR LIGNITE: clayey; dark brown; firm; friable; good core - unbroken; LIGNEOUS CLAY: dark brown; firm; high plasticity (clay), good core - unbroken.
				C2879	37.15	0.12	INFERIOR LIGNITE	Clayey; gelatinous; dark brown - black; soft; low plasticity (organic); good core - unbroken.
				C2881	37.35	0.20	LIGNEOUS CLAY	Dark brown - black; firm; low plasticity (clay); good core - unbroken; subfissile; gradational base.
				C2881	37.39	0.04	CLAY	Ligneous; dark brown - grey; firm; high plasticity (clay), good core - unbroken.
				C2881	37.46	0.07	INFERIOR LIGNITE	Clayey; dark brown - black; firm; friable; good core - unbroken; rare bioturbation.
				C2881	37.53	0.07	LIGNEOUS CLAY	Dark brown - black; firm; high plasticity (clay); good core - unbroken; common ligneous wisps.

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77127

STRAT NAME	SEQ NO.	SEAM NAME	WORK SECT	SAMPLE NUMBER	DEPTH (m)	THICK (m)	ROCK TYPE	GEOLOGICAL DESCRIPTION OF STRATA
				C2881	37.66	0.13	INFERIOR LIGNITE	Clayey; dark brown - black; firm; friable; good core - unbroken.
				C2881	37.70	0.04	LIGNEOUS CLAY	Dark brown - black; firm; low plasticity (clay); good core - unbroken.
				C2881	37.78	0.08	CLAY	Lignecus; medium to dark brown - grey; firm; high plasticity (clay); good core - unbroken; gradational base; common bioturbation.
				C2881	37.91	0.13	CLAY	Light to medium brown - grey; firm; high plasticity (clay); good core - unbroken; gradational base; occasional lignecus wisps.
				C2881	38.02	0.11	CLAY	Light to medium brown; firm; high plasticity (clay); good core - unbroken; gradational base; common lignecus wisps.
				C2881	38.17	0.15	CLAY	Carbonaceous; medium to dark brown; firm; high plasticity (clay); good core - unbroken; common lignecus wisps.
				C2881	38.36	0.19	CLAY	Light to medium brown; firm; high plasticity (clay); good core - unbroken; occasional lignecus wisps.
				C2881	38.42	0.06	LIGNEOUS CLAY	Medium to dark brown - grey; firm; low plasticity (clay); good core - unbroken; subfissile.
				C2882	38.52	0.10	LIGNITE	Dark brown - black; firm; friable; good core - unbroken.
				C2882	38.56	0.04	CLAY	Light to medium brown; firm; high plasticity (clay); good core - unbroken.
				C2882	38.62	0.06	INFERIOR LIGNITE	Clayey; dark brown; firm; friable; good core - unbroken.
				C2882	38.69	0.07	LIGNITE	Woody textured; dark brown; firm; coal cleat; friable; sparse; subvertical joints; vertical joints; good core - unbroken.
				C2882	38.83	0.14	LIGNEOUS CLAY	Dark brown - black; firm; low plasticity (clay); good core - unbroken.
				C2882	38.93	0.10	INFERIOR LIGNITE	Clayey; gelatinous; dark brown - black; soft; friable; good core - unbroken; common woody fragments.
				C2882	39.16	0.23	INFERIOR LIGNITE	Clayey; dark brown; firm; friable; good core - unbroken.

771274

STRAT NAME	SEQ NO.	SEAM NAME	WORK SECT	SAMPLE NUMBER	DEPTH (m)	THICK (m)	ROCK TYPE	GEOLOGICAL DESCRIPTION OF STRATA
				C2882	39.22	0.06	LIGNEOUS CLAY	Dark brown; firm; low plasticity (clay); good core - unbroken.
				C2882	39.40	0.18	INFERIOR LIGNITE	Clayey; woody textured; dark brown; firm; friable; good core - unbroken.
				C2882	39.50	0.10	INFERIOR LIGNITE	Clayey; gelatinous; medium to dark brown - black; soft; low plasticity (clay); good core - unbroken.
				C2882	39.67	0.17	LIGNEOUS CLAY	Dark brown; firm; low plasticity (organic); good core - unbroken; common ligneous wisps.

END OF BORE AT 39.67 m

EL2080 LAUNCESTON. C0033

213

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EL2080 LAUNCESTON 0033R
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Eastins: 496690.000
Northins: 5410550.000
Grid Type: Australian Mapping Grid
Accuracy: Approximate
Crl: 150.00
Datum: Approximate Level - Not Surveyed
Sheet Reference:
Sheet Index:
Total Depth: 50.28
Drillins Commenced: 30/11/81
Drillins Completed: 01/12/81
Inclination:
Azimuth:
Standins Water Level: 6.9

Available Data: Gamma Logs
Density Logs
Resistivity Logs
Caliper Logs

Loggins Organisation: CSR Exploration and Evaluation Group
Logged By: ELLIS
Drillins Contractor: H.J. Stocroole
Geophysical Loggins: Murdoch Geophysics

County:
Parish:
Portion:

Plug Depths:
Hole Diameter: 150
Core Diameter: 100
Cased Depths:
Core Barrel: Triefus Triple Barrel

Drill Bits: Blades

ALL ROCKS ARE FRESH UNLESS OTHERWISE INDICATED

711276

STRAT NAME	SEQ NO.	SEAM NAME	WORK SECT	SAMPLE NUMBER	DEPTH (m)	THICK (m)	ROCK TYPE	GEOLOGICAL DESCRIPTION OF STRATA
				R	8.00	8.00	NO RECORD	
				C	8.13	0.13	CORE LOSS	
				C2707	8.27	0.14	INFERIOR LIGNITE	Clayey; dark brown; firm; friable; good core - unbroken; common ligneous wisps; LIGNEOUS WISPS ARE DARK BLACK-BROWN, SOFT AND GELATINOUS *
				C2707	8.31	0.04	INFERIOR LIGNITE	Clayey; gelatinous; dark black - brown; soft; low plasticity (organic); good core - unbroken.
				C2707	8.34	0.03	CLAY	Ligneous; light to medium brown; firm; low plasticity (clay); good core - unbroken; gradational base.
				C2707	8.41	0.07	INFERIOR LIGNITE	Clayey; dark brown; firm; friable; good core - unbroken; gradational base; beds dip at 02 degrees.
				C2707	8.51	0.10	INFERIOR LIGNITE	Clayey; woody textured; dark black - brown; firm; friable; good core - unbroken; fissile.
				C2707	8.59	0.08	INFERIOR LIGNITE	Clayey; medium to dark brown; firm; friable; good core - unbroken; sharp oblique base; beds dip at 10 degrees; abundant ligneous wisps.
				C2707	8.68	0.09	CLAY	Ligneous; light to medium brown - grey; firm; high plasticity (clay); good core - unbroken; gradational base; common ligneous wisps.
				C2708	8.78	0.10	LIGNITE	Woody textured; clayey; medium to dark brown; firm; friable; good core - unbroken; sharp oblique base; beds dip at 07 degrees; HIGH CLAY CONTENT, LOOKS LIKE A LOG OF WOOD IN CLAY *
				C2708	8.88	0.10	INFERIOR LIGNITE	Clayey; medium to dark brown; firm; friable; good core - unbroken; sharp oblique base; beds dip at 02 degrees; common ligneous fragments; WOODY LIGNEOUS FRAGMENTS

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STRAT NAME	SEQ NO.	SEAM NAME	WORK SECT	SAMPLE NUMBER	DEPTH (m)	THICK (m)	ROCK TYPE	GEOLOGICAL DESCRIPTION OF STRATA
				C2708	8.91	0.03	LIGNITE	Woody textured; dark brown - black; good core - unbroken; sharp irregular base; beds dip at 10 degrees?
								LOOKS LIKE A LOG OF WOOD
				C2708	8.99	0.08	INFERIOR LIGNITE	Clayey; medium to dark brown; firm; friable; good core - unbroken; gradational base; common ligneous wisps.
				C2708	9.10	0.11	LIGNITE	Medium to dark brown; firm; friable; good core - unbroken.
				C2710	9.15	0.05	LIGNITE	Woody textured; dark brown - black; low strength; brittle; good core - unbroken.
				C2710	9.21	0.06	INFERIOR LIGNITE	Clayey; dark brown; firm; friable; good core - unbroken.
				C2710	9.32	0.11	LIGNITE	Dark brown; firm; friable; good core - unbroken; common woody fragments.
				C2710	9.36	0.04	LIGNEOUS CLAY	Dark brown; firm; high plasticity (organic); good core - unbroken; gradational base.
				C2710	9.41	0.05	INFERIOR LIGNITE	Clayey; dark brown; firm; friable; good core - unbroken; sharp oblique base; beds dip at 10 degrees; common woody fragments.
				C2710	9.49	0.08	CLAY	Ligneous; medium to dark brown - grey; firm; low plasticity (clay); good core - unbroken; sharp oblique base; beds dip at 10 degrees; abundant woody fragments.
				C2710	9.59	0.10	LIGNEOUS CLAY	Dark brown; firm; high plasticity (clay); good core - unbroken; gradational base; abundant woody fragments.
				C2710	9.65	0.06	CLAY	Ligneous; medium to dark brown; firm; high plasticity (clay); good core - unbroken; sharp irregular base; common woody fragments.
				C2710	9.72	0.07	LIGNITE	Dark brown - black; firm; friable; good core - unbroken.
				C2710	9.90	0.18	LIGNITE	Woody textured; dark brown - black; firm; slickensides on fracture; friable; good core - unbroken.
				C2710	10.12	0.22	LIGNITE	Woody textured; dark brown; firm; friable; good core - unbroken; gradational base.

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STRAT NAME	SEQ NO.	SEAM NAME	WORK SECT	SAMPLE NUMBER	DEPTH (m)	THICK (m)	ROCK TYPE	GEOLOGICAL DESCRIPTION OF STRATA
				C2710	10.32	0.20	INFERIOR LIGNITE and CLAY	Interbedded 90:10. INFERIOR LIGNITE: clayey; dark brown - black; firm; friable; good core - unbroken; CLAY: light to medium brown - grey; firm; low plasticity (clay); good core - unbroken.
				C2711	10.68	0.36	CLAY	Carbonaceous; light to medium brown - grey; firm; slickensides on fracture; high plasticity (clay); common; oblique joints; angle of joints 30 degrees; good core - unbroken; abundant woody fragments; THIS COULD BE A ROOT ZONE
				C2711	11.21	0.53	CLAY	Ligneous; medium to dark brown - grey; firm; slickensides on fracture; high plasticity (clay); common; oblique joints; angle of joints 30 degrees; good core - unbroken.
				C2711	11.44	0.23	CLAY	Carbonaceous; light to medium brown - grey; firm; high plasticity (clay); good core - unbroken; sharp irregular base; beds dip at 05 degrees.
				C2712	11.66	0.22	LIGNITE	Woody textured; dark brown; firm; friable; good core - unbroken; fissile; sharp oblique base; beds dip at 20 degrees.
				C2712	11.73	0.07	CLAY	Carbonaceous; medium to dark brown - grey; firm; high plasticity (clay); good core - unbroken; abundant woody fragments.
				C2712	11.84	0.11	LIGNEOUS CLAY	Dark brown; firm; high plasticity (organic); good core - unbroken; common woody fragments.
				C2713	11.96	0.12	INFERIOR LIGNITE	Woody textured; clayey; dark brown - black; firm; friable; good core - unbroken; common resin aggregates.
				C2713	12.01	0.05	CLAY	Ligneous; medium to dark brown; firm; high plasticity (organic); good core - unbroken; common woody fragments.
				C2713	12.14	0.13	INFERIOR LIGNITE	Woody textured; clayey; dark brown; firm; friable; good core - unbroken; common resin aggregates.
				C2713	12.17	0.03	LIGNEOUS CLAY	Dark brown - grey; firm; high plasticity (organic); good core - unbroken.

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STRAT NAME	SEQ NO.	SEAM NAME	WORK SECT	SAMPLE NUMBER	DEPTH (m)	THICK (m)	ROCK TYPE	GEOLOGICAL DESCRIPTION OF STRATA
				C2713	12.25	0.08	INFERIOR LIGNITE	Woody textured; clayey; dark brown; firm; friable; good core - unbroken;
								LIGNEOUS CLAY LENSES
				C2714	12.30	0.05	INFERIOR LIGNITE	Clayey; dark brown; firm; friable; good core - unbroken; sharp oblique base; beds dip at 20 degrees; common woody fragments.
				C2714	12.35	0.05	LIGNITE	Woody textured; medium to dark brown - yellow; firm; friable; good core - unbroken;
								LOOKS LIKE A TREE BRANCH, RESINOUS?
				C2714	12.38	0.03	LIGNEOUS CLAY	Dark brown; firm; low plasticity (organic); good core - unbroken; sharp oblique base; beds dip at 15 degrees; common woody fragments.
				C2714	12.44	0.06	LIGNITE	Woody textured; dark brown; firm; friable; good core - unbroken; fibrous; Bands include: LIGNITE; woody textured; dark brown; low strength; brittle; good core - unbroken; fibrous.
				C2714	12.54	0.10	LIGNITE	Dark brown; firm; friable; good core - unbroken; occasional resin aggregates; Additional features include: good core - unbroken; common woody fragments.
				C2715	12.71	0.17	INFERIOR LIGNITE	Clayey; dark brown; firm; friable; good core - unbroken; common woody fragments.
				C2715	12.94	0.23	INFERIOR LIGNITE	Dark brown; firm; friable; good core - unbroken; common resin aggregates; Additional features include: good core - unbroken; common woody fragments.
				C2716	12.98	0.04	CLAY	Ligneous; medium to dark brown - grey; firm; low plasticity (clay); good core - unbroken; common woody fragments.
				C2716	13.22	0.24	INFERIOR LIGNITE	Clayey; dark brown; firm; slickensides on fracture; friable; common; oblique joints; angle of joints 10 degrees; good core - unbroken; fibrous; sharp irregular base; common woody fragments.

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77128O

STRAT NAME	SEQ NO.	SEAM NAME	WORK SECT	SAMPLE NUMBER	DEPTH (m)	THICK (m)	ROCK TYPE	GEOLOGICAL DESCRIPTION OF STRATA
				C2717	13.39	0.17	CLAY	Ligneous, medium to dark brown - grey, firm, low plasticity (organic), good core - unbroken, abundant woody fragments.
				C2717	13.43	0.04	CLAY	Ligneous, dark brown, low strength, slickensides on fracture, brittle, common, oblique joints, angle of joints 30 degrees, core crushed, fissile;
								LOW STRENGTH CLAY
				C2717	13.45	0.02	CLAY	Ligneous, dark brown, firm, low plasticity (organic), good core - unbroken.
				C2717	13.66	0.21	LIGNITE	Woody textured, medium to dark brown, firm, friable, good core - unbroken, common resin aggregates.
				C2718	13.71	0.05	CLAY	Ligneous, dark brown, firm, low plasticity (clay), good core - unbroken, subfissile, sharp irregular base, common woody fragments.
				C2718	13.74	0.03	CLAY	Carbonaceous, light to medium grey - brown, firm, high plasticity (clay), good core - unbroken.
				C2718	13.82	0.08	INFERIOR LIGNITE	Clayey, dark brown, firm, friable, good core - unbroken, subfissile, gradational base, common woody fragments.
				C2718	13.88	0.06	CLAY	Ligneous, mottled brown, firm, low plasticity (clay), good core - unbroken.
				C2718	13.92	0.04	INFERIOR LIGNITE	Woody textured, clayey, dark brown, firm, friable, good core - unbroken.
				C2718	14.03	0.11	CLAY	Carbonaceous, light to medium grey - brown, firm, high plasticity (clay), good core - unbroken, gradational base, common woody fragments.
				C2718	14.10	0.07	CLAY	Light to medium brown - grey, firm, high plasticity (clay), good core - unbroken, sharp oblique base, beds dip at 15 degrees, occasional woody fragments.
				C2718	14.17	0.07	CLAY	Ligneous, medium to dark brown, firm, high plasticity (clay), good core - unbroken, common woody fragments.
				C2718	14.37	0.20	CLAY	Light to medium brown - grey, firm, high plasticity (clay), good core - unbroken, gradational base, abundant woody fragments.

STRAT NAME	SEQ NO.	SEAM NAME	WORK SECT	SAMPLE NUMBER	DEPTH (m)	THICK (m)	ROCK TYPE	GEOLOGICAL DESCRIPTION OF STRATA
				C2718	14.46	0.09	CLAY	Light to medium brown; firm; high plasticity (clay); good core - unbroken; common woody fragments.
				C2718	14.51	0.05	CLAY	Mottled brown; firm; high plasticity (clay); good core - unbroken; common woody fragments.
				C2718	14.63	0.12	CLAY	Ligneous; medium to dark brown; firm; low plasticity (clay); good core - unbroken; common woody fragments.
					16.25	1.62	CORE LOSS	
				R	23.26	7.01	NO RECORD	
				C2719	23.31	0.05	CLAY	Ligneous; medium to dark brown - black; firm; high plasticity (clay); good core - unbroken; fissile; PRECURSOR TO CARBONACEOUS SHALE
				C2719	23.42	0.11	CLAY	Light to medium brown; firm; high plasticity (clay); good core - unbroken.
				C2719	23.56	0.14	CLAY	Light to medium brown - grey; firm; high plasticity (clay); good core - unbroken.
				C2719	23.68	0.12	CLAY	Mottled brown - grey; firm; high plasticity (clay); good core - unbroken.
				C2719	23.76	0.08	CLAY	Light to medium brown; firm; high plasticity (clay); good core - unbroken; occasional ligneous wisps.
				C2719	23.82	0.06	CLAY	Light to medium brown - grey; firm; high plasticity (clay); good core - unbroken.
				C2719	23.87	0.05	CLAY	Light to medium brown; firm; high plasticity (clay); good core - unbroken; occasional ligneous wisps.
				C2720	23.91	0.04	CLAY	Ligneous; medium to dark brown; firm; high plasticity (clay); good core - unbroken; common ligneous wisps.
				C2720	23.96	0.05	LIGNEOUS CLAY	Dark brown; firm; high plasticity (organic); good core - unbroken; fissile; common ligneous wisps; PRECURSOR TO CARBONACEOUS SHALE

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STRAT NAME	SEQ NO.	SEAM NAME	WORK SECT	SAMPLE NUMBER	DEPTH (m)	THICK (m)	ROCK TYPE	GEOLOGICAL DESCRIPTION OF STRATA
				C2720	24.08	0.12	INFERIOR LIGNITE	Clayey; dark brown; firm; friable; good core - unbroken; sharp oblique base; beds dip at 10 degrees; abundant woody fragments.
				C2720	24.25	0.17	LIGNEOUS CLAY	Medium to dark brown; firm; low plasticity (organic); good core - unbroken; sharp oblique base; beds dip at 15 degrees; abundant woody fragments.
				C2720	24.34	0.09	INFERIOR LIGNITE	Woody textured; dark brown - black; firm; friable; good core - unbroken; subfissile; sharp oblique base; beds dip at 05 degrees.
				C2720	24.36	0.02	CLAY	Ligneous; medium to dark brown - grey; firm; high plasticity (clay); good core - unbroken; sharp planar base; beds dip at 05 degrees.
				C2720	24.55	0.19	INFERIOR LIGNITE	Clayey; woody textured; medium to dark brown; firm; friable; good core - unbroken; sharp planar base; Bands include: CLAY; light to medium brown - grey; firm; low plasticity (clay); CLAY BANDS VERY THIN LAMINAE
				C2721	24.70	0.15	LIGNEOUS CLAY	Medium to dark brown; firm; high plasticity (organic); good core - unbroken; sharp planar base; beds dip at 03 degrees; Bands include: CLAY; light to medium brown; firm; high plasticity (clay); Bands include: INFERIOR LIGNITE; clayey; medium to dark brown; firm; friable.
				C2721	24.75	0.05	INFERIOR LIGNITE	Clayey; medium to dark brown; firm; friable; good core - unbroken; Bands include: LIGNEOUS CLAY; medium to dark brown; firm; high plasticity (organic); good core - unbroken.
				C2721	24.81	0.06	INFERIOR LIGNITE	Woody textured; clayey; medium to dark brown - black; firm; friable; good core - unbroken; fissile.
				C2721	24.82	0.01	CLAY	Light to medium brown - grey; firm; high plasticity (clay); good core - unbroken.
				C2721	24.89	0.07	LIGNITE	Medium to dark brown; firm; friable; good core - unbroken; fissile.
					25.42	0.53	CORE LOSS	

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STRAT NAME	SEQ NO.	SEAM NAME	WORK SECT	SAMPLE NUMBER	DEPTH (m)	THICK (m)	ROCK TYPE	GEOLOGICAL DESCRIPTION OF STRATA
				C2722	25.49	0.07	INFERIOR LIGNITE	Clayey; dark brown - black; firm; friable; good core - unbroken; fissile.
				C2722	25.53	0.04	LIGNEOUS CLAY	Dark brown - black; firm; low plasticity (clay); good core - unbroken; fissile.
				C2722	25.59	0.06	INFERIOR LIGNITE	Clayey; dark brown; firm; low plasticity (organic); good core - unbroken; fissile.
				C2722	25.63	0.04	INFERIOR LIGNITE	Clayey; dark brown; soft; low plasticity (organic); good core - unbroken; fissile;
								LITHOLOGIES BETWEEN 25.42 AND 25.63 LOOK *
								LIKE A CARBONACEOUS SHALE PRECURSOR
				C2722	25.65	0.02	CLAY	Ligneous; light to medium brown; firm; high plasticity (clay); good core - unbroken.
				C2722	25.70	0.05	INFERIOR LIGNITE	Woody textured; medium to dark brown - black; firm; low plasticity (organic); good core - unbroken; fissile.
				C2722	25.71	0.01	CLAY	Light to medium brown; firm; high plasticity (clay); good core - unbroken.
				C2722	25.74	0.03	INFERIOR LIGNITE	Woody textured; medium to dark brown - black; firm; low plasticity (organic); good core - unbroken; fissile.
				C2723	25.76	0.02	CLAY	Carbonaceous; medium to dark brown; firm; high plasticity (clay); good core - unbroken; gradational base.
				C2723	25.79	0.03	CLAY	Light to medium brown; firm; high plasticity (clay); good core - unbroken; occasional woody fragments.
				C2723	25.91	0.12	LIGNEOUS CLAY	Medium to dark brown; firm; low plasticity (organic); good core - unbroken; subfissile.
				C2723	25.96	0.05	CLAY	Light to medium brown - grey; firm; slickensides on fracture; high plasticity (clay); coarse; oblique joints; angle of joints 20 degrees.

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STRAT NAME	SEQ NO.	SEAM NAME	WORK SECT	SAMPLE NUMBER	DEPTH (m)	THICK (m)	ROCK TYPE	GEOLOGICAL DESCRIPTION OF STRATA
				C2723	26.11	0.15	LIGNEOUS CLAY	Medium to dark brown - black; firm; high plasticity (organic); good core - unbroken; subfissile; sharp oblique base; beds dip at 20 degrees; abundant ligneous wisps; Bands include: CLAY; light to medium brown - grey; firm; high plasticity (clay);
								LIGNEOUS CLAY IS MACROBIOTURBATED
				C2723	26.16	0.05	LIGNEOUS CLAY	Medium to dark brown; firm; low plasticity (organic); good core - unbroken; sharp planar base; beds dip at 00 degrees; abundant bioturbation.
				C2723	26.23	0.07	CLAY	Light to medium brown; firm; high plasticity (clay); good core - unbroken; common bioturbation; Additional features include: good core - unbroken; common ligneous lamellae.
				C2723	26.26	0.03	LIGNEOUS CLAY	Medium to dark brown; firm; high plasticity (clay); good core - unbroken; gradational base; beds dip at 00 degrees; common bioturbation.
				C2723	26.34	0.08	INFERIOR LIGNITE	Clayey; dark brown - black; firm; friable; good core - unbroken; sharp planar base; beds dip at 05 degrees; abundant bioturbation.
				C2724	26.40	0.06	CLAY	Light to medium brown; firm; slickensides on fracture; high plasticity (clay); sparse; oblique joints; angle of joints 40 degrees; good core - unbroken; sharp irregular base; beds dip at 30 degrees; occasional ligneous wisps.
				C2724	26.45	0.05	CLAY	Light to medium brown - grey; firm; high plasticity (clay); good core - unbroken; sharp planar base; beds dip at 00 degrees.
				C2724	26.51	0.06	INFERIOR LIGNITE	Clayey; dark brown - black; firm; friable; good core - unbroken; sharp irregular base; common bioturbation.
				C2724	26.76	0.25	CLAY	Light to medium brown; firm; high plasticity (clay); good core - unbroken.
				C2724	27.04	0.28	CLAY	Light to medium brown - grey; firm; high plasticity (clay); good core - unbroken.
				C2724	27.06	0.02	CLAY	Medium to dark brown; firm; high plasticity (clay); good core - unbroken; occasional bioturbation.

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STRAT NAME	SEQ NO.	SEAM NAME	WORK SECT	SAMPLE NUMBER	DEPTH (m)	THICK (m)	ROCK TYPE	GEOLOGICAL DESCRIPTION OF STRATA
				C2724	27.09	0.03	CLAY	Light to medium brown; firm; high plasticity (clay); good core - unbroken; gradational base.
				C2725	27.12	0.03	LIGNEOUS CLAY	Medium to dark brown; firm; high plasticity (organic); good core - unbroken; sharp planar base; beds dip at 00 degrees; common ligneous wisps.
				C2725	27.18	0.06	INFERIOR LIGNITE	Clayey; dark black - brown; firm; friable; good core - unbroken; sharp oblique base; beds dip at 10 degrees; common bioturbation.
				C2725	27.20	0.02	CLAY	Dark black - brown; firm; friable; good core - unbroken.
				C2725	27.22	0.02	INFERIOR LIGNITE	Clayey; dark brown - black; firm; friable; good core - unbroken; sharp oblique base; beds dip at 10 degrees; common bioturbation.
				C2725	27.29	0.07	CLAY	Light to medium brown; firm; high plasticity (clay); good core - unbroken.
				C2725	27.34	0.05	INFERIOR LIGNITE	Clayey; medium to dark brown - black; firm; friable; good core - unbroken.
				C2725	27.35	0.01	CLAY	Medium to dark brown; firm; high plasticity (clay); good core - unbroken; common ligneous wisps; Additional features include: good core - unbroken; common bioturbation.
				C2725	27.38	0.03	INFERIOR LIGNITE	Clayey; dark brown; firm; friable; good core - unbroken; common bioturbation.
				C2725	27.43	0.05	CLAY	Light to medium brown; firm; high plasticity (clay); good core - unbroken; sharp irregular base; common ligneous wisps.
				C2725	27.44	0.01	LIGNEOUS CLAY	Medium to dark brown; firm; low plasticity (organic); good core - unbroken; bioturbation.
				C2725	27.49	0.05	INFERIOR LIGNITE	Clayey; dark brown - black; firm; friable; good core - unbroken; sharp oblique base; beds dip at 10 degrees; bioturbation.
				C2725	27.52	0.03	CLAY	Light to medium brown; firm; high plasticity (clay); good core - unbroken; sharp planar base; beds dip at 00 degrees.
				C2725	27.59	0.07	LIGNEOUS CLAY	Medium to dark brown; firm; low plasticity (organic); good core - unbroken; bioturbation.

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STRAT NAME	SEQ NO.	SEAM NAME	WORK SECT	SAMPLE NUMBER	DEPTH (m)	THICK (m)	ROCK TYPE	GEOLOGICAL DESCRIPTION OF STRATA
				C2725	27.63	0.04	INFERIOR LIGNITE	Clayey; dark brown; firm; friable; good core - unbroken; bioturbation.
				C2725	27.66	0.03	CLAY	Medium to dark brown; firm; high plasticity (clay); good core - unbroken.
				C2725	27.68	0.02	INFERIOR LIGNITE	Clayey; woody textured; medium to dark brown; firm; friable; good core - unbroken; subfissile; bioturbation.
				C2725	27.78	0.10	LIGNEOUS CLAY	Medium to dark brown; firm; low plasticity (organic); good core - unbroken.
				C2725	27.88	0.10	CLAY	Light to medium brown; firm; high plasticity (clay); good core - unbroken; gradational base.
				C2725	28.05	0.17	CLAY	Medium to dark brown; firm; low plasticity (clay); good core - unbroken; common lignoous wisps.
				C2725	28.07	0.02	CLAY	Light to medium brown; firm; low plasticity (clay); good core - unbroken; sharp planar base; beds dip at 00 degrees.
				C2725	28.09	0.02	INFERIOR LIGNITE	Clayey; medium to dark brown; firm; friable; good core - unbroken.
				C2725	28.11	0.02	LIGNEOUS CLAY	Medium to dark brown; firm; low plasticity (organic); good core - unbroken.
				C2725	28.14	0.03	INFERIOR LIGNITE	Clayey; medium to dark brown; firm; friable; good core - unbroken; bioturbation.
				C2725	28.18	0.04	CLAY	Light to medium brown; firm; high plasticity (clay); good core - unbroken.
				C2725	28.78	0.60	CLAY	Light to medium grey - brown; firm; high plasticity (clay); good core - unbroken; occasional woody fragments.
				C2725	28.86	0.08	CLAY	Medium to dark brown; firm; high plasticity (clay); good core - unbroken; subfissile; sharp planar base; beds dip at 00 degrees;
								LOW STRENGTH CLAY
				C2726	28.93	0.07	LIGNITE	Dark brown - black; firm; friable; good core - unbroken; gradational base; bioturbation.

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STRAT NAME	SEQ NO.	SEAM NAME	WORK SECT	SAMPLE NUMBER	DEPTH (m)	THICK (m)	ROCK TYPE	GEOLOGICAL DESCRIPTION OF STRATA
				C2726	29.22	0.29	LIGNITE	Dark brown, firm, friable, good core - unbroken, gradational base, bioturbation.
				C2726	29.28	0.06	INFERIOR LIGNITE	Clayey, dark brown, firm, friable, good core - unbroken, occasional resin aggregates; Additional features include: good core - unbroken, occasional bioturbation.
				C2726	29.36	0.08	CLAY	Light to medium brown, firm, high plasticity (clay), good core - unbroken.
				C2726	29.45	0.09	INFERIOR LIGNITE	Clayey, dark brown - black, firm, friable, good core - unbroken, common woody fragments.
					29.67	0.22	CORE LOSS	
				C2727	29.82	0.15	LIGNITE	Woody textured, peaty, dark brown - black, firm, friable, good core - unbroken.
				C2727	29.87	0.05	LIGNEOUS CLAY	Dark black - brown, firm, low plasticity (clay), good core - unbroken.
				C2727	29.89	0.02	INFERIOR LIGNITE	Clayey, dark brown - black, firm, friable, good core - unbroken, rare quartz, accessory, clasts.
					31.79	1.90	CORE LOSS	Good core - unbroken.
				C2728	31.82	0.03	LIGNITE	Clayey, dark brown - black, firm, friable, good core - unbroken.
				C2728	31.87	0.05	INFERIOR LIGNITE	Clayey, dark brown, firm, friable, good core - unbroken.
				C2728	31.93	0.06	LIGNITE	Dark brown, firm, friable, good core - unbroken.
				C2728	31.95	0.02	LIGNITE	Woody textured, peaty, dark brown, low strength, brittle, good core - unbroken.
				C2728	32.14	0.19	LIGNITE	Woody textured, dark brown, firm, friable, good core - unbroken.
				C2729	32.19	0.05	LIGNEOUS CLAY	Dark brown, firm, low plasticity (organic), good core - unbroken, subfissile.
				C2729	32.23	0.04	CLAY	Ligneous, dark brown, firm, high plasticity (organic), good core - unbroken.

STRAT NAME	SEQ NO.	SEAM NAME	WORK SECT	SAMPLE NUMBER	DEPTH (m)	THICK (m)	ROCK TYPE	GEOLOGICAL DESCRIPTION OF STRATA
				C2729	32.27	0.04	CLAY	Light to medium brown; firm; low plasticity (clay); good core - unbroken; occasional ligneous wisps.
				C2729	32.31	0.04	LIGNEOUS CLAY	Dark brown; firm; low plasticity (clay); good core - unbroken; subfissile.
				C2729	32.38	0.07	INFERIOR LIGNITE	Clayey; dark brown - black; firm; friable; good core - unbroken.
				C2729	32.43	0.05	LIGNITE	Woody textured; peaty; dark brown; low strength; brittle; good core - unbroken.
				C2729	32.48	0.05	CLAY	Light to medium brown; firm; high plasticity (clay); good core - unbroken; gradational base.
				C2729	32.53	0.05	LIGNEOUS CLAY	Dark brown - black; firm; low plasticity (organic); good core - unbroken.
				C2729	32.58	0.05	INFERIOR LIGNITE	Clayey; dark black - brown; firm; friable; good core - unbroken.
				C2729	32.62	0.04	INFERIOR LIGNITE	Clayey; dark brown - black; firm; friable; good core - unbroken.
				C2729	32.72	0.10	INFERIOR LIGNITE	Clayey; dark brown; firm; friable; good core - unbroken.
				C2729	32.76	0.04	LIGNEOUS CLAY	Dark grey; firm; friable; good core - unbroken.
				C2730	33.10	0.34	LIGNITE	Clayey; dark brown - black; firm; friable; good core - unbroken.
				C2731	33.19	0.09	INFERIOR LIGNITE	Clayey; dark brown - black; firm; friable; good core - unbroken.
				C2731	33.30	0.11	LIGNEOUS CLAY	Dark brown; firm; low plasticity (organic); good core - unbroken; common ligneous wisps.
				C2731	33.34	0.04	LIGNITE	Dark brown; firm; friable; good core - unbroken.
				C2731	33.47	0.13	INFERIOR LIGNITE	Clayey; dark brown - black; firm; friable; good core - unbroken.
				C2731	33.54	0.07	LIGNEOUS CLAY	Dark brown - black; firm; low plasticity (organic); good core - unbroken.

771289

STRAT NAME	SEQ NO.	SEAM NAME	WORK SECT	SAMPLE NUMBER	DEPTH (m)	THICK (m)	ROCK TYPE	GEOLOGICAL DESCRIPTION OF STRATA
				C2731	33.57	0.03	INFERIOR LIGNITE	Clayey, dark brown - black, firm, low plasticity (organic), good core - unbroken.
					33.68	0.11	CORE LOSS	
				C2732	33.74	0.06	LIGNITE	Dark brown - black, firm, friable, good core - unbroken, fibrous.
				C2732	33.78	0.04	INFERIOR LIGNITE	Dark brown - black, firm, friable, good core - unbroken.
				C2732	33.90	0.12	LIGNEOUS CLAY	Dark grey - brown, firm, low plasticity (clay), good core - unbroken.
				C2732	33.92	0.02	INFERIOR LIGNITE	Clayey, dark brown - black, firm, friable, good core - unbroken.
				C2732	33.94	0.02	INFERIOR LIGNITE	Clayey, dark brown - grey, firm, low plasticity (organic), good core - unbroken.
				C2732	33.98	0.04	INFERIOR LIGNITE	Dark brown, firm, friable, good core - unbroken, occasional woody fragments.
				C2733	34.03	0.05	LIGNEOUS CLAY	Medium to dark brown, firm, slickensides on fracture, low plasticity (organic), sparse, oblique joints, angle of joints 40 degrees, good core - unbroken, occasional resin aggregates.
				C2733	34.06	0.03	CLAY	Light to medium brown, firm, high plasticity (clay), good core - unbroken.
				C2733	34.22	0.16	CLAY	Ligneous, medium to dark brown, firm, good core - unbroken, occasional resin aggregates; Additional features include: good core - unbroken, common woody fragments.
				C2733	34.25	0.03	CLAY	Light to medium brown - grey, firm, high plasticity (clay), good core - unbroken, subfissile.
				C2733	34.27	0.02	CLAY	Ligneous, medium to dark brown, firm, low plasticity (clay), good core - unbroken, subfissile, sharp oblique base, beds dip at 05 degrees.
				C2733	34.30	0.03	INFERIOR LIGNITE	Clayey, dark brown, firm, friable, good core - unbroken, sharp oblique base, beds dip at 05 degrees.
				C2733	34.31	0.01	CLAY	Light to medium brown - grey, firm, good core - unbroken.

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STRAT NAME	SEQ NO.	SEAM NAME	WORK SECT	SAMPLE NUMBER	DEPTH (m)	THICK (m)	ROCK TYPE	GEOLOGICAL DESCRIPTION OF STRATA
				C2733	34.38	0.07	INFERIOR LIGNITE	Clayey; dark brown; firm; friable; good core - unbroken; CONTAINS THIN CLAY WISPS
				C2733	34.62	0.24	LIGNITE	Dark brown; firm; friable; good core - unbroken.
				C2734	34.80	0.18	LIGNEOUS CLAY	Dark brown - grey; firm; low plasticity (clay); good core - unbroken; abundant ligneous wisps.
				C2734	34.83	0.03	CLAY	Mottled brown; firm; high plasticity (organic); good core - unbroken.
				C2734	34.86	0.03	INFERIOR LIGNITE	Clayey; medium to dark brown; firm; friable; good core - unbroken.
				C2734	34.88	0.02	CLAY	Light to medium brown - grey; firm; high plasticity (clay); good core - unbroken.
				C2734	34.89	0.01	CLAY	Medium to dark brown; firm; low plasticity (clay); good core - unbroken.
				C2734	34.92	0.03	CLAY	Medium to dark brown - grey; firm; high plasticity (clay); good core - unbroken.
				C2734	35.01	0.09	LIGNEOUS CLAY	Dark brown - grey; firm; low plasticity (organic); good core - unbroken; common ligneous wisps.
				C2734	35.03	0.02	CLAY	Light to medium brown; firm; high plasticity (clay); good core - unbroken; gradational base.
				C2734	35.07	0.04	CLAY	Ligneous; medium to dark brown; firm; low plasticity (clay); good core - unbroken.
				C2734	35.16	0.09	CLAY	Carbonaceous; medium to dark grey - brown; firm; good core - unbroken.
				C2734	35.22	0.06	INFERIOR LIGNITE	Clayey; dark brown - black; firm; friable; good core - unbroken.
				C2734	35.27	0.05	CLAY	Carbonaceous; medium to dark brown - grey; firm; low plasticity (clay); good core - unbroken.
				C2734	35.32	0.05	CLAY	Medium to dark brown; firm; low plasticity (clay); good core - unbroken; common ligneous wisps.

771291

LAUNCESTON. GEOLOGICAL LOG REPORT ATP EL2080 LAUNCESTON TENEMENT 2080

STRAT NAME	SEQ NO.	SEAM NAME	WORK SECT	SAMPLE NUMBER	DEPTH (m)	THICK (m)	ROCK TYPE	GEOLOGICAL DESCRIPTION OF STRATA
				C2734	35.48	0.16	CLAY	Light to medium brown; firm; high plasticity (clay); good core - unbroken.
				C2734	35.57	0.09	CLAY	Medium to dark grey - brown; firm; high plasticity (clay); good core - unbroken; gradational base.
				C2734	35.66	0.09	CLAY	Light to medium brown; firm; high plasticity (clay); good core - unbroken.
				C2734	35.77	0.11	CLAY	Medium to dark grey - brown; firm; high plasticity (clay); good core - unbroken.
				C2734	35.79	0.02	LIGNITE	Woody textured; resty; dark brown - black; low strength; brittle; good core - unbroken.
				C2734	35.84	0.05	INFERIOR LIGNITE	Clayey; dark brown - black; firm; low plasticity (organic); good core - unbroken.
				C2735	35.89	0.05	LIGNITE	Dark brown; firm; friable; good core - unbroken; gradational base.
				C2735	35.92	0.03	INFERIOR LIGNITE	Clayey; dark brown - grey; firm; friable; good core - unbroken; gradational base.
				C2735	35.95	0.03	LIGNEOUS CLAY	Dark brown - grey; firm; low plasticity (organic); good core - unbroken.
				C2735	35.96	0.01	LIGNEOUS CLAY	Dark brown; firm; low plasticity (organic); good core - unbroken.
				C2735	35.97	0.01	INFERIOR LIGNITE	Clayey; dark brown - grey; firm; friable; good core - unbroken.
				C2735	36.02	0.05	LIGNITE	Dark brown; firm; friable; good core - unbroken.
				C2735	36.08	0.06	LIGNITE	Woody textured; dark brown; firm; friable; good core - unbroken; IRREGULARLY FRACTURED
				C2735	36.13	0.05	LIGNITE	Clayey; dark brown; firm; friable; good core - unbroken; IRREGULARLY FRACTURED

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LAUNCESTON. GEOLOGICAL LOG REPORT ATP EL2080 LAUNCESTON TENEMENT 2080

STRAT NAME	SEQ NO.	SEAM NAME	WORK SECT	SAMPLE NUMBER	DEPTH (m)	THICK (m)	ROCK TYPE	GEOLOGICAL DESCRIPTION OF STRATA
				C2733	36.18	0.05	LIGNITE	Woody textured; dark brown - black; low strength; brittle; good core - unbroken;
								OCCASIONAL CLAY PODS
				C2733	36.21	0.03	LIGNITE	Dark brown; firm; slickensided on fracture; friable; sparse; oblique joints; angle of joints 30 degrees; good core - unbroken.
				C2735	36.28	0.07	LIGNITE	Dark brown; firm; friable; good core - unbroken.
				C2735	36.37	0.09	LIGNITE	Woody textured; dark brown; firm; friable; good core - unbroken; Bands include: LIGNITE; woody textured; dark brown; low strength; brittle; good core - unbroken; subfissile.
				C2735	36.41	0.04	LIGNITE	Dark brown; firm; friable; good core - unbroken.
				C2735	36.46	0.05	LIGNITE	Woody textured; dark brown; firm; cool cleat; friable; sparse; subvertical joints; vertical joints; good core - unbroken; Bands include: LIGNITE; woody textured; dark brown; low strength; brittle; good core - unbroken; subfissile.
				C2736	36.56	0.10	INFERIOR LIGNITE	Clayey; dark brown; firm; friable; good core - unbroken; gradational base; common woody fragments.
				C2736	36.61	0.05	INFERIOR LIGNITE	Clayey; medium to dark brown; firm; friable; good core - unbroken; common woody fragments.
				C2736	36.65	0.04	LIGNITE	Dark brown - black; firm; friable; good core - unbroken.
				C2736	36.74	0.09	LIGNITE	Woody textured; dark brown - black; firm; friable; good core - unbroken.
				C2737	36.78	0.04	INFERIOR LIGNITE	Clayey; dark brown; firm; friable; good core - unbroken;
								HIGH CLAY CONTENT; ALMOST LOW PLASTICITY
				C2737	36.83	0.05	INFERIOR LIGNITE	Clayey; dark brown; firm; friable; good core - unbroken;
								LESS CLAY THAN PREVIOUS UNIT

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STRAT NAME	SEQ NO.	SEAM NAME	WORK SECT	SAMPLE NUMBER	DEPTH (m)	THICK (m)	ROCK TYPE	GEOLOGICAL DESCRIPTION OF STRATA
				C2737	36.91	0.08	LIGNITE	Dark brown, firm, friable, good core - unbroken.
				C2737	36.99	0.08	LIGNITE	Silty, medium to dark black, firm, friable, good core - unbroken, fibrous.
				C2737	37.05	0.06	INFERIOR LIGNITE	Dark brown, firm, friable, good core - unbroken.
				C2737	37.30	0.25	INFERIOR LIGNITE	Clayey, medium to dark brown, firm, friable, good core - unbroken, common woody fragments.
				C2737	37.57	0.27	LIGNITE	Woody textured, resty, dark brown - black, firm, friable, good core - unbroken;
								LOOKS LIKE A BRANCH, SOME CLAY
				C2737	37.63	0.06	INFERIOR LIGNITE	Clayey, medium to dark brown, firm, friable, good core - unbroken, common woody fragments.
				C2738	37.78	0.15	LIGNEOUS CLAY	Medium to dark brown - grey, firm, low plasticity (organic), good core - unbroken, common woody fragments.
				C2738	37.90	0.12	LIGNEOUS CLAY	Dark brown - grey, firm, low plasticity (organic), good core - unbroken, common woody fragments.
				C2738	37.96	0.06	INFERIOR LIGNITE	Clayey, dark brown - black, firm, friable, good core - unbroken.
				C2738	38.00	0.04	INFERIOR LIGNITE	Clayey, dark brown - grey, firm, low plasticity (organic), good core - unbroken, gradational base;
								INCREASED CLAY DOWN SEQUENCE
				C2738	38.15	0.15	LIGNEOUS CLAY	Dark brown - grey, firm, low plasticity (organic), good core - unbroken, gradational base.
				C2738	38.16	0.01	CLAY	Medium to dark brown - grey, firm, low plasticity (clay), good core - unbroken, gradational base.
				C2738	38.18	0.02	INFERIOR LIGNITE	Clayey, dark brown, firm, friable, good core - unbroken.
				C2738	38.23	0.05	INFERIOR LIGNITE	Clayey, woody textured, dark brown, firm, friable, core crushed, fissile.

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STRAT NAME	SEQ NO.	SEAM NAME	WORK SECT	SAMPLE NUMBER	DEPTH (m)	THICK (m)	ROCK TYPE	GEOLOGICAL DESCRIPTION OF STRATA
				C2738	38.26	0.03	LIGNEOUS CLAY	Dark brown - black; firm; high plasticity (organic); good core - unbroken; fissile; common woody fragments.
				C2738	38.31	0.05	LIGNEOUS CLAY	Dark brown - grey; firm; high plasticity (clay); good core - unbroken; subfissile.
				C2738	38.43	0.12	CLAY	Mottled grey - brown; firm; high plasticity (clay); good core - unbroken; occasional woody fragments.
				C2738	38.48	0.05	CLAY	Ligneous; medium to dark brown; firm; high plasticity (clay); good core - unbroken; Bands include: CLAY; light to medium grey - brown; firm; high plasticity (clay); good core - unbroken.
				C2738	38.77	0.29	INFERIOR LIGNITE	Clayey; woody textured; dark brown; firm; friable; good core - unbroken; fibrous; sharp irregular base; LOOKS LIKE A BRANCH
				C2739	38.85	0.08	CLAY	Ligneous; medium to dark brown; firm; high plasticity (clay); good core - unbroken; common woody fragments.
				C2739	38.96	0.11	CLAY	Light to medium grey; firm; high plasticity (clay); good core - unbroken; gradational base; occasional woody fragments.
				C2739	39.16	0.20	CLAY	Light to medium grey - brown; firm; high plasticity (clay); good core - unbroken; gradational base.
				C2739	39.30	0.14	CLAY	Light to medium grey; firm; high plasticity (clay); good core - unbroken; gradational base.
				C2739	39.38	0.08	CLAY	Light to medium grey - brown; firm; high plasticity (clay); good core - unbroken; gradational base.
				C2739	39.51	0.13	CLAY	Ligneous; light to medium brown; firm; low plasticity (clay); good core - unbroken; common woody fragments.
				C2739	39.61	0.10	CLAY	Light to medium grey; firm; high plasticity (clay); good core - unbroken; common woody fragments.
				C2739	39.74	0.13	CLAY	Light to medium grey - brown; firm; high plasticity (clay); good core - unbroken; occasional woody fragments.
				C2739	39.84	0.10	CLAY	Ligneous; medium to dark brown; firm; high plasticity (clay); good core - unbroken; abundant woody fragments.

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LAUNCESTON. GEOLOGICAL LOG REPORT ATP EL2080 LAUNCESTON TENEMENT 2080

STRAT NAME	SEQ NO.	SEAM NAME	WORK SECT	SAMPLE NUMBER	DEPTH (m)	THICK (m)	ROCK TYPE	GEOLOGICAL DESCRIPTION OF STRATA
				C2739	40.13	0.29	CLAY	Light to medium grey - brown; firm; high plasticity (clay), good core - unbroken; occasional woody fragments; Additional features include: good core - unbroken; occasional resin aggregates.
				C2739	40.34	0.21	CLAY	Medium to dark brown - grey; firm; low plasticity (clay), good core - unbroken; common woody fragments; Additional features include: good core - unbroken; occasional resin aggregates.
				C2739	40.64	0.30	CLAY	Light to medium grey - brown; firm; high plasticity (clay), good core - unbroken; occasional resin aggregates; Additional features include: common woody fragments.
				C2739	40.78	0.14	CLAY	Light to medium brown - grey; firm; low plasticity (clay), good core - unbroken; common woody fragments.
				C2739	40.84	0.06	CLAY	Light to medium grey; firm; high plasticity (clay), good core - unbroken.
				R	45.00	4.16	NO RECORD	
				C2740	45.23	0.23	CLAY	Bentonitic; light to medium grey; firm; high plasticity (clay); good core - unbroken.
				C2740	45.41	0.18	CLAY	Light to medium grey; firm; high plasticity (clay), good core - unbroken; sharp oblique base; beds dip at 10 degrees.
				C2740	45.42	0.01	SAND	Clayey; light to medium grey; firm; non-plastic; good core - unbroken; coarsening upwards; sharp planar base; beds dip at 00 degrees.
				C2740	45.50	0.08	CLAY	Light to medium grey; firm; high plasticity (clay); good core - unbroken; common coaly wisps.
				C2740	45.51	0.01	CLAY	Sandy; light to medium grey; firm; low plasticity (clay), good core - unbroken.
				C2740	45.54	0.03	CLAY	Sandy; light to medium brown; firm; low plasticity (clay); good core - unbroken; fining upwards; LESS SAND TOWARDS TOP OF UNIT
				C2740	45.62	0.08	CLAY	Medium to dark brown - grey; firm; high plasticity (clay), good core - unbroken.

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STRAT NAME	SEQ NO.	SEAM NAME	WORK SECT	SAMPLE NUMBER	DEPTH (m)	THICK (m)	ROCK TYPE	GEOLOGICAL DESCRIPTION OF STRATA
				C2740	45.75	0.13	CLAY	Sandy; light to medium brown - grey; firm; high plasticity (clay); good core - unbroken.
				C2740	45.90	0.15	CLAY	Medium to dark brown - grey; firm; high plasticity (clay); good core - unbroken.
				C2741	46.32	0.42	LIGNITE	Woody textured; dark brown - black; firm; friable; good core - unbroken.
				C2742	46.38	0.06	LIGNEOUS CLAY	Dark brown; firm; high plasticity (organic); good core - unbroken.
				C2742	46.57	0.19	LIGNITE	Woody textured; dark brown - black; firm; friable; good core - unbroken.
				C2742	46.59	0.02	CLAY	Light to medium brown; firm; high plasticity (clay); good core - unbroken.
				C2742	47.01	0.42	INFERIOR LIGNITE	Clayey; woody textured; dark brown - black; firm; friable; good core - unbroken; sharp irregular base; common resin aggregates.
				C2743	47.15	0.14	CLAY	Mottled brown - grey; firm; high plasticity (clay); good core - unbroken.
				C2743	47.21	0.06	CLAY	Medium to dark brown; firm; high plasticity (clay); good core - unbroken.
				C2743	47.26	0.05	CLAY	Light to medium brown - grey; firm; high plasticity (clay); good core - unbroken.
				C2743	47.32	0.06	INFERIOR LIGNITE	Clayey; dark brown - black; firm; friable; good core - unbroken.
				C2743	47.45	0.13	LIGNITE	Woody textured; dark brown - black; firm; friable; good core - unbroken; LOOKS LIKE A BRANCH
				C2743	47.51	0.06	CLAY	Light to medium brown - grey; firm; slickensides on fracture; high plasticity (clay); sparse, oblique joints; angle of joints 30 degrees; good core - unbroken; sharp oblique base; beds dip at 10 degrees.

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STRAT NAME	SEQ NO.	SEAM NAME	WORK SECT	SAMPLE NUMBER	DEPTH (m)	THICK (m)	ROCK TYPE	GEOLOGICAL DESCRIPTION OF STRATA
				C2743	47.80	0.29	INFERIOR LIGNITE	Clayey, woody textured, dark brown, firm, friable, good core - unbroken, sharp oblique base, beds dip at 10 degrees, abundant resin aggregates; Bands include: CLAY, light to medium brown - grey, firm, high plasticity (clay), good core - unbroken; Bands include: INFERIOR LIGNITE, clayey, woody textured, dark brown, low strength, brittle, good core - unbroken, abundant resin aggregates.
				C2743	47.95	0.15	CLAY	Ligneous, dark brown, firm, high plasticity (clay), good core - unbroken, abundant woody fragments.
					48.08	0.13	CORE LOSS	Good core - unbroken.
				C2744	48.51	0.43	CLAY	Light to medium brown - grey, firm, high plasticity (clay), good core - unbroken, common woody fragments.
				C2744	48.55	0.04	CLAY	Ligneous, light to medium brown, firm, high plasticity (clay), good core - unbroken, subfissile.
				C2744	48.61	0.06	CLAY	Ligneous, medium to dark brown, firm, low plasticity (clay), good core - unbroken, fissile, common woody fragments.
				C2744	48.71	0.10	CLAY	Light to medium brown - grey, firm, high plasticity (clay), good core - unbroken, gradational base, occasional woody fragments.
				C2744	48.78	0.07	CLAY	Light to medium brown, firm, high plasticity (clay), good core - unbroken, occasional woody fragments.
				C2744	48.79	0.01	CLAY	Light to medium brown - grey, firm, high plasticity (clay), good core - unbroken.
				C2744	48.86	0.07	CLAY	Ligneous, medium to dark brown, firm, low plasticity (clay), good core - unbroken, fissile, common woody fragments.
				C2745	49.09	0.23	CLAY	Kaolinitic, light to medium brown - grey, firm, high plasticity (clay), good core - unbroken, gradational base, common woody fragments.
				C2745	49.14	0.05	CLAY	Kaolinitic, light to medium brown - grey, firm, high plasticity (clay), good core - unbroken; KAOLIN NODULES

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771298

STRAT NAME	SEQ NO.	SEAM NAME	WORK SECT	SAMPLE NUMBER	DEPTH (m)	THICK (m)	ROCK TYPE	GEOLOGICAL DESCRIPTION OF STRATA
				C2745	49.36	0.22	CLAY	Kaolinitic; light to medium brown - grey; firm; high plasticity (clay); good core - unbroken.
				C2745	49.55	0.19	CLAY	Light to medium brown - grey; firm; high plasticity (clay); good core - unbroken; occasional woody fragments.
				C2745	49.70	0.15	CLAY	Kaolinitic; light brown - grey; firm; high plasticity (clay); good core - unbroken.
					50.28	0.58	CORE LOSS	
				END OF BORE AT	50.28 m			

EL2080 LAUNCESTON. C033R

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771299

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EL2080 LAUNCESTON. C0034
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Eastins: 597500.000
Northins: 5403500.000
Grid Type: Australian Mapping Grid
Accuracy: Approximate
Crl: 155.00
Datum: Approximate Level - Not Surveyed
Sheet Reference:
Sheet Index:
Total Depth: 49.60
Drilling Commenced: 16/11/81
Drilling Completed: 18/11/81
Inclination:
Azimuth:
Standing Water Level:

Available Data: Gamma Logs
Density Logs
Resistivity Logs
Caliper Logs

Logging Organisation: CSR Exploration and Evaluation Group
Logged By: ELLHINOS
Drilling Contractor:
Geophysical Logging: Murdoch Geophysics

County:
Parish:
Portion:

Plus Depths:
Hole Diameter: 150
Core Diameter:
Cased Depths:
Core Barrel: Triefus Triple Barrel

Drill Bits: Blades
Rollers

ALL ROCKS ARE FRESH UNLESS OTHERWISE INDICATED

771300

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STRAT NAME	SEQ NO.	SEAM NAME	WORK SECT	SAMPLE NUMBER	DEPTH (m)	THICK (m)	ROCK TYPE	GEOLOGICAL DESCRIPTION OF STRATA
				R	2.00	2.00	SILT	Clayey; humified; medium to dark red - brown.
				R	4.30	2.30	CLAY	Silty; mottled blue - grey; firm; Additional features include: brown - yellow.
				R	9.10	4.80	CLAY	Silty; mottled blue - grey; firm.
				R	9.60	0.50	LIGNEOUS CLAY	Medium to dark brown.
				R	10.40	0.80	LIGNITE	Medium to dark black - brown.
				R	16.00	5.60	CLAY	Mottled blue - grey.
				R	21.00	5.00	CLAY	Light to medium brown - grey.
				C	21.50	0.50	CLAY	Light to medium brown - grey.
				C2620	22.00	0.50	INFERIOR LIGNITE	Clayey; medium to dark brown - black.
				C2620	22.20	0.20	INFERIOR LIGNITE	Clayey; medium to dark brown - black; Bands include: LIGNEOUS CLAY; medium to dark brown.
				C2620	22.70	0.50	INFERIOR LIGNITE	Clayey; medium to dark brown - black.
				C2620	23.00	0.30	LIGNEOUS CLAY	Medium to dark brown; Bands include: INFERIOR LIGNITE; clayey; medium to dark brown - black.
				C2621	23.40	0.40	LIGNEOUS CLAY	Medium to dark brown; Bands include: INFERIOR LIGNITE; clayey; medium to dark brown - black.
				C2621	24.20	0.80	INFERIOR LIGNITE	Clayey; medium to dark brown - black; Bands include: LIGNEOUS CLAY; medium to dark brown.
				C2622	25.00	0.80	LIGNEOUS CLAY	Medium to dark brown.
				C2623	25.30	0.30	LIGNEOUS CLAY	Medium to dark brown.
				C2623	25.76	0.46	INFERIOR LIGNITE	Clayey; medium to dark brown - black.
				C2623	26.10	0.34	LIGNEOUS CLAY	Medium to dark brown.
				C2623	26.45	0.35	INFERIOR LIGNITE	Clayey; medium to dark brown - black.
				C	26.60	0.15	INFERIOR LIGNITE	Clayey; medium to dark brown - black.

771301

STRAT NAME	SEQ NO.	SEAM NAME	WORK SECT	SAMPLE NUMBER	DEPTH (m)	THICK (m)	ROCK TYPE	GEOLOGICAL DESCRIPTION OF STRATA
					27.60	1.00	CLAY	Light to medium grey.
				C	28.20	0.60	CLAY	Carbonaceous; light to medium grey - brown.
				C2624	28.26	0.06	CLAY	Carbonaceous; light to medium grey - brown; firm; low plasticity (clay); good core - unbroken; common lignous wisps.
				C2624	28.50	0.24	CLAY	Carbonaceous; lignous; medium to dark brown; firm; low plasticity (clay); good core - unbroken; gradational base; common lignous wisps; Bands include: CLAY; carbonaceous; lignous; medium to dark brown; stiff; low plasticity (clay); good core - unbroken; common lignous wisps.
				C2624	28.80	0.30	CLAY	Carbonaceous; light to medium grey - brown; stiff; low plasticity (clay); good core - unbroken; gradational base; common lignous wisps.
				C2624	28.95	0.15	INFERIOR LIGNITE	Clayey; dark brown - black; firm; friable; good core - unbroken.
				C2624	29.02	0.07	INFERIOR LIGNITE	Clayey; dark brown - black; firm; low plasticity (organic); good core - unbroken; fissile; SOME BRIGHT BANDS; HIGHER CLAY CONTENT * THAN PREVIOUS UNIT
				C2624	29.49	0.47	CLAY	Lignous; medium to dark brown; firm; low plasticity (clay); good core - unbroken; rare resin aggregates.
				C2624	29.54	0.05	INFERIOR LIGNITE	Clayey; medium to dark black - brown; stiff; low plasticity (organic); good core - unbroken.
					31.00	1.46	CORE LOSS	
				C2614	31.13	0.13	INFERIOR LIGNITE	Clayey; medium to dark black - brown; firm; friable; good core - unbroken; gradational base; INCREASED CLAY CONTENT TOWARDS BASE
				C2614	31.18	0.05	LIGNEOUS CLAY	Medium to dark brown - black; firm; low plasticity (organic); good core - unbroken; sharp irregular base.

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LAUNCESTON. GEOLOGICAL LOG REPORT ATP EL2080 LAUNCESTON TENEMENT 2080

STRAT NAME	SEQ NO.	SEAM NAME	WORK SECT	SAMPLE NUMBER	DEPTH (m)	THICK (m)	ROCK TYPE	GEOLOGICAL DESCRIPTION OF STRATA
				C2614	31.23	0.05	CLAY	Carbonaceous; light to medium brown - grey; firm; low plasticity (clay); good core - unbroken; sharp planar base; beds dip at 10 degrees; occasional ligneous wisps.
				C2614	31.30	0.07	CLAY	Ligneous; medium to dark brown; firm; low plasticity (organic); good core - unbroken; gradational base; occasional ligneous wisps.
				C2614	31.36	0.06	CLAY	Carbonaceous; light to medium brown - grey; firm; low plasticity (clay); good core - unbroken; sharp irregular base.
				C2614	31.44	0.08	LIGNEOUS CLAY	Medium to dark brown; firm; high plasticity (organic); good core - unbroken; gradational base; abundant ligneous wisps.
				C2614	31.64	0.20	INFERIOR LIGNITE and LIGNEOUS CLAY	Interbedded 60:40. INFERIOR LIGNITE: clayey; medium to dark black - brown; firm; friable; good core - unbroken; sharp planar base; beds dip at 05 degrees; LIGNEOUS CLAY: medium to dark brown; firm; high plasticity (organic); good core - unbroken.
				C2614	31.72	0.08	CLAY	Carbonaceous; light to medium brown - grey; firm; low plasticity (clay); good core - unbroken; gradational base; rare resin aggregates; Additional features include: common ligneous wisps; INCREASED CARBON CONTENT TOWARDS BASE
				C2614	31.80	0.08	LIGNEOUS CLAY	Medium to dark brown; firm; high plasticity (organic); good core - unbroken; occasional resin aggregates; Additional features include: common ligneous wisps; LOW STRENGTH CLAY, CRUMBLES READILY * RELATIVELY HIGH LIGNEOUS CONTENT
				C2614	31.98	0.18	CLAY	Carbonaceous; medium to dark brown - grey; firm; high plasticity (clay); good core - unbroken; gradational base; occasional resin aggregates; Additional features include: common ligneous wisps.

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STRAT NAME	SEQ NO.	SEAM NAME	WORK SECT	SAMPLE NUMBER	DEPTH (m)	THICK (m)	ROCK TYPE	GEOLOGICAL DESCRIPTION OF STRATA
				C2614	32.04	0.06	CLAY	Carbonaceous; light to medium brown - grey; firm; high plasticity (clay); good core - unbroken; gradational base; occasional ligneous wisps
								INCREASED CARBON CONTENT TOWARDS BASE
				C2614	32.07	0.03	INFERIOR LIGNITE	Clayey; medium to dark black - brown; firm; friable; good core - unbroken; gradational base
								HIGHER CLAY CONTENT THAN STRATIGRAPH- *
								ICALLY LOWER UNIT.
				C2614	32.15	0.08	INFERIOR LIGNITE	Clayey; dark black - brown; firm; friable; good core - unbroken; gradational base.
				C2614	32.26	0.11	INFERIOR LIGNITE	Clayey; medium to dark brown; firm; friable; good core - unbroken; gradational base
								INCREASED CLAY CONTENT OVER PREVIOUS *
								UNIT
				C2614	32.34	0.08	CLAY and INFERIOR LIGNITE	Intermixed 70:30. CLAY: carbonaceous; light to medium brown; firm; low plasticity (clay); good core - unbroken; INFERIOR LIGNITE: clayey; medium to dark brown; firm; friable.
				C2615	32.60	0.26	CLAY	Carbonaceous; light to medium brown - grey; firm; low plasticity (clay); good core - unbroken; common ligneous wisps.
				C2615	32.63	0.03	LIGNEOUS CLAY	Medium to dark brown; firm; low plasticity (organic); good core - unbroken.
				C2615	32.67	0.04	INFERIOR LIGNITE	Clayey; medium to dark brown; firm; low plasticity (organic); good core - unbroken; Bands include: INFERIOR LIGNITE; clayey; medium to dark brown; firm; friable.
				C2615	32.70	0.03	LIGNEOUS CLAY	Light to medium brown; firm; low plasticity (organic); good core - unbroken.
				C2615	32.97	0.27	CLAY	Carbonaceous; light to medium brown - grey; firm; low plasticity (clay); good core - unbroken.

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LAUNCESTON. GEOLOGICAL LOG REPORT ATP EL2080 LAUNCESTON TENEMENT 2080

STRAT NAME	SEQ NO.	SEAM NAME	WORK SECT	SAMPLE NUMBER	DEPTH (m)	THICK (m)	ROCK TYPE	GEOLOGICAL DESCRIPTION OF STRATA
				C2615	33.09	0.12	LIGNEOUS CLAY	Medium to dark brown; firm; low plasticity (organic); good core - unbroken; common lignoous wisps.
				C2615	33.26	0.17	LIGNEOUS CLAY	Carbonaceous; medium to dark brown - grey; firm; low plasticity (clay); good core - unbroken; gradational base; common woody fragments.
				C2615	33.40	0.14	LIGNEOUS CLAY	Light to medium brown; firm; low plasticity (organic); good core - unbroken; gradational base; common lignoous wisps.
				C2615	33.52	0.12	CLAY	Carbonaceous; light to medium brown - grey; firm; low plasticity (clay); good core - unbroken; sharp irregular base; beds dip at 15 degrees.
				C2615	33.54	0.02	INFERIOR LIGNITE	Clayey; dark brown; firm; low plasticity (organic); good core - unbroken; gradational base; DECREASED CLAY CONTENT TOWARDS BASE.
				C2615	33.55	0.01	INFERIOR LIGNITE	Clayey; dark brown; firm; friable; good core - unbroken; fissile; gradational base.
				C2615	33.58	0.03	INFERIOR LIGNITE	Clayey; dark brown; firm; friable; good core - unbroken; sharp irregular base; beds dip at 15 degrees.
				C2615	33.64	0.06	CLAY	Carbonaceous; medium to dark brown - grey; firm; high plasticity (clay); good core - unbroken; gradational base; occasional lignoous wisps.
				C2616	33.97	0.33	CLAY	Light to medium grey - brown; firm; low plasticity (clay); good core - unbroken; gradational base.
				C2616	34.19	0.22	CLAY	Light to medium brown - grey; firm; low plasticity (clay); good core - unbroken.
				C2616	34.60	0.41	CORE LOSS	
				C2616	34.62	0.02	CLAY	Carbonaceous; light to medium brown - grey; firm; low plasticity (clay); good core - unbroken; common lignoous fragments.
				C2616	34.65	0.03	LIGNEOUS CLAY	Medium to dark brown - grey; firm; low plasticity (organic); good core - unbroken; occasional lignoous fragments.

EL2080 LAUNCESTON. C0034

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STRAT NAME	SEQ NO.	SEAM NAME	WORK SECT	SAMPLE NUMBER	DEPTH (m)	THICK (m)	ROCK TYPE	GEOLOGICAL DESCRIPTION OF STRATA
				C2616	34.71	0.06	CLAY	Carbonaceous; light to medium grey - brown; firm; high plasticity (clay); good core - unbroken; gradational base; common lignous wisps.
				C2616	35.43	0.72	CLAY	Light to medium grey - brown; firm; high plasticity (clay); good core - unbroken; gradational base.
				C2616	35.86	0.43	CLAY	Light to medium grey - brown; firm; high plasticity (clay); good core - unbroken; gradational base; common bioturbation.
				C2616	35.98	0.12	CLAY	Carbonaceous; light to medium brown - grey; firm; low plasticity (clay); good core - unbroken; gradational base.
				C2616	36.15	0.17	CLAY and INFERIOR LIGNITE	Interbedded 60:40. CLAY: carbonaceous; light to medium brown - grey; firm; low plasticity (clay); good core - unbroken; INFERIOR LIGNITE: clayey; medium to dark brown; firm; friable.
				C2616	36.30	0.15	CLAY	Carbonaceous; light to medium brown - grey; firm; low plasticity (clay); good core - unbroken; gradational base; common woody fragments.
				C2616	36.98	0.68	CLAY	Carbonaceous; light to medium grey - brown; firm; high plasticity (clay); good core - unbroken; gradational base.
				C2616	37.02	0.04	CLAY	Carbonaceous; light to medium grey - brown; firm; high plasticity (clay); good core - unbroken; gradational base; common lignous wisps.
				C2616	37.54	0.52	CLAY	Light to medium grey; firm; high plasticity (clay); good core - unbroken; occasional bioturbation; RARE CARBONACEOUS WISPS.
					37.60	0.06	CORE LOSS	
				C2617	38.01	0.41	CLAY	Light to medium grey; firm; expanding clay; good core - unbroken; gradational base; occasional bioturbation.
				C2617	38.35	0.34	CLAY	Carbonaceous; light to medium grey - brown; firm; high plasticity (clay); good core - unbroken.

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STRAT NAME	SEQ NO.	SEAM NAME	WORK SECT	SAMPLE NUMBER	DEPTH (m)	THICK (m)	ROCK TYPE	GEOLOGICAL DESCRIPTION OF STRATA
				C2617	38.54	0.19	CLAY	Interbedded 50:50: carbonaceous; light to medium brown - grey; firm; low plasticity (clay); good core - unbroken; sharp irregular base; common ligneous fragments; Additional features include: occasional bioturbation; LIGNEOUS CLAY: medium to dark brown - black; firm; low plasticity (organic).
				C2617	38.72	0.18	CLAY	Carbonaceous; light to medium grey - brown; firm; high plasticity (clay); gradational base; common ligneous wisps.
				C2617	38.84	0.12	CLAY	Ligneous; medium to dark brown - grey; firm; high plasticity (clay); gradational base.
				C2617	38.97	0.13	CLAY	Carbonaceous; light to medium grey - brown; firm; high plasticity (clay); common ligneous wisps.
				C2617	39.39	0.42	INFERIOR LIGNITE and CLAY	Interbedded 90:10. INFERIOR LIGNITE: clayey; medium to dark black - brown; firm; friable; gradational base; common bioturbation; CLAY: carbonaceous: light to medium grey - brown; firm; high plasticity (clay).
				C2617	39.50	0.11	LIGNEOUS CLAY	Medium to dark brown - grey; firm; low plasticity (organic); rare resin aggregates.
				C2617	39.61	0.11	CLAY	Carbonaceous; light to medium brown - grey; firm; low plasticity (clay); gradational base.
				C2617	39.71	0.10	INFERIOR LIGNITE	Clayey; medium to dark brown; firm; friable; rare resin aggregates; RARE SANDY CLAYEY LENSES
				C2617	39.79	0.08	INFERIOR LIGNITE	Medium to dark black - brown; stiff; friable; common woody fragments.
				C2617	39.87	0.08	INFERIOR LIGNITE	Clayey; medium to dark black - brown; stiff; friable; gradational base; rare resin aggregates; Additional features include: common woody fragments.
				C2617	39.92	0.05	INFERIOR LIGNITE	Woody textured; clayey; medium to dark brown - grey; firm; low plasticity (organic); good core - unbroken; gradational base.

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LAUNCESTON. GEOLOGICAL LOG REPORT ATP EL2080 LAUNCESTON TENEMENT 2080

STRAT NAME	SEQ NO.	SEAM NAME	WORK SECT	SAMPLE NUMBER	DEPTH (m)	THICK (m)	ROCK TYPE	GEOLOGICAL DESCRIPTION OF STRATA
				C2617	40.09	0.17	CLAY	Lignous; medium to dark brown - grey; firm; low plasticity (clay); good core - unbroken; rare resin aggregates.
				C2619	40.20	0.11	CLAY	Carbonaceous; woody textured; light to medium brown; firm; low plasticity (clay); good core - unbroken; gradational base.
				C2619	40.42	0.22	CLAY	Carbonaceous; light to medium grey - brown; firm; high plasticity (clay); good core - unbroken; gradational base; common woody wisps.
				C2619	40.60	0.18	CLAY	Lignous; light to medium brown - grey; firm; low plasticity (clay); good core - unbroken; gradational base; common lignous fragments.
				C2619	40.67	0.07	INFERIOR LIGNITE and INFERIOR LIGNITE	Interbedded 60:40. INFERIOR LIGNITE: clayey; medium to dark brown - black; firm; low plasticity (organic); good core - unbroken; INFERIOR LIGNITE: clayey; medium to dark brown; firm; low plasticity (organic).
				C2619	40.91	0.24	LIGNEOUS CLAY	Medium to dark black - brown; firm; high plasticity (organic); good core - unbroken; gradational base; abundant clay; clasts; RARE ANGULAR PEBBLES
				C2619	40.95	0.04	INFERIOR LIGNITE	Clayey; medium to dark black - brown; firm; high plasticity (organic); good core - unbroken.
				C2619	41.05	0.10	CLAY	Lignous; light to medium brown - grey; firm; low plasticity (clay); good core - unbroken; gradational base.
				C2619	41.14	0.09	CLAY	Light to medium brown - grey; firm; low plasticity (clay); good core - unbroken; sharp irregular base; beds dip at 05 degrees.
				C2619	41.16	0.02	LIGNEOUS CLAY	Medium to dark brown - black; firm; low plasticity (organic).
				C2619	41.23	0.07	INFERIOR LIGNITE	Clayey; medium to dark brown - black; firm; low plasticity (organic).
				C2619	41.29	0.06	INFERIOR LIGNITE	Medium to dark brown - black; firm; friable; Bands include: LIGNEOUS CLAY; light to medium brown - grey; firm; low plasticity (organic).

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LAUNCESTON. GEOLOGICAL LOG REPORT ATP EL2080 LAUNCESTON TENEMENT 2080

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STRAT NAME	SEQ NO.	SEAM NAME	WORK SECT	SAMPLE NUMBER	DEPTH (m)	THICK (m)	ROCK TYPE	GEOLOGICAL DESCRIPTION OF STRATA
				C2619	41.32	0.03	INFERIOR LIGNITE	Clayey; medium to dark brown - black; firm; friable.
				C2619	41.35	0.03	LIGNEOUS CLAY	Medium to dark brown - black; firm; low plasticity (organic); common woody fragments.
				C2619	41.37	0.02	CLAY	Lignecus; light to medium brown; firm; low plasticity (clay); common woody fragments.
				C	42.99	1.62	CLAY	Light to medium grey; firm; low plasticity (clay); subfissile; rare resin aggregates; Additional features include: common bioturbation;
								RARE CARBONACEOUS WISPS
				C	43.60	0.61	CLAY	Light to medium grey - brown; firm; low plasticity (clay); good core - unbroken; abundant woody fragments.
				C	44.41	0.81	CLAY	Light to medium grey - brown; firm; high plasticity (clay); good core - unbroken; gradational base; rare resin aggregates;
								COMMON DISSEMINATED FINE GRAINED *
								CARBONACEOUS MATERIAL, SOME BRANCHE * S AND LOGS
				C	45.14	0.73	CLAY	Light to medium grey - brown; firm; high plasticity (clay); good core - unbroken;
								LESS BROWN IN COLOR THAN OVERLYING *
								UNIT
				C	46.58	1.44	CLAY	Light to medium grey; firm; high plasticity (clay); good core - unbroken;
								TRACE OF CARBONACEOUS MATERIAL
				C	46.60	0.02	CORE LOSS	

EL2080 LAUNCESTON. C0034

771309

LAUNCESTON. GEOLOGICAL LOG REPORT ATP EL2080 TENEMENT 2080
LAUNCESTON

STRAT NAME	SEQ NO.	SEAM NAME	WORK SECT	SAMPLE NUMBER	DEPTH (m)	THICK (m)	ROCK TYPE	GEOLOGICAL DESCRIPTION OF STRATA
				C	47.69	1.09	CLAY	Light to medium grey; firm; high plasticity (clay); good core - unbroken; occasional carbonaceous root traces; RARE SANDY CLASTS UP TO 2CM IN SIZE
				C	48.26	0.57	CLAY	Light to medium grey - brown; firm; high plasticity (clay).
				C	48.44	0.18	CLAY	Lignaous; light to medium brown - grey; firm; low plasticity (clay).
				C	49.60	1.16	CLAY	Light to medium grey; firm; high plasticity (clay); RARE SANDY PODS AND LENSES

END OF BORE AT 49.60 m

EL2080 LAUNCESTON. C0034

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7713 10

****
EL2080 LAUNCESTON. R0035
****

Easting: 497650.000
Northing: 5403820.000
Grid Type: Australian Mapping Grid
Accuracy: Approximate
Crl: 141.00
Datum: Approximate Level - Not Surveyed
Sheet Reference:
Sheet Index:
Total Depth: 50.60
Drilling Commenced: 18/11/81
Drilling Completed: 18/11/81
Inclination:
Azimuth:
Standing Water Level: 3.8

Available Data: Gamma Logs
Density Logs
Resistivity Logs
Caliper Logs

Logging Organisation: CSR Exploration and Evaluation Group
Logged By: HINRICHS
Drilling Contractor: H.J. Staepoole
Geophysical Logging: Murdoch Geophysics

County:
Parish:
Portion:

Plug Depths:
Hole Diameter: 150
Core Diameter:
Cased Depths:
Core Barrel:

Drill Bits: Blades

ALL ROCKS ARE FRESH UNLESS OTHERWISE INDICATED

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STRAT NAME	SEQ NO.	SEAM NAME	WORK SECT	SAMPLE NUMBER	DEPTH (m)	THICK (m)	ROCK TYPE	GEOLOGICAL DESCRIPTION OF STRATA
					0.50	0.50	CLAY	Sandy, light to medium orange - grey, firm, low plasticity (organic).
					1.00	0.50	GRAVEL	Clayey, sandy, light to medium grey - yellow, medium dense, non-plastic, pebbly.
					3.20	2.20	GRAVEL	Quartzose, clayey, light to medium grey - yellow, medium dense, non-plastic, pebbly.
					9.00	5.80	SAND	Quartzose, light to medium yellow - grey, medium dense, non-plastic, medium and coarse grained.
					11.00	2.00	SAND	Quartzose, clayey, light to medium grey - yellow, medium dense, non-plastic, medium grained.
					12.40	1.40	SAND	Quartzose, light to medium grey - yellow, medium dense, non-plastic, medium and coarse grained.
					16.80	4.40	SAND	Clayey, gravelly, light to medium grey - white, loose, non-plastic, medium and coarse grained.
					23.00	6.20	IRONSTONE - CONCRETIONARY	Clayey, gravelly, light to medium yellow - grey, loose, non-plastic, fine to coarse grained, coarsening upwards.
					24.60	1.60	SAND	Woody textured, gravelly, light to medium grey, loose, non-plastic.
					27.20	2.60	SILT	Sandy, woody textured, light to medium grey - yellow, loose, non-plastic; Additional features include: clayey.
					31.00	3.80	SILT	Woody textured, clayey, light to medium grey, loose, non-plastic; Additional features include: sandy.
					39.50	8.50	SAND	Woody textured, light to medium grey, loose, non-plastic, fine grained; COARSE GRAINED TO 50M
					41.00	1.50	SAND	Woody textured, light to medium grey, loose, non-plastic, fine grained.
					43.00	2.00	SAND	Light to medium grey, loose, non-plastic, fine and medium grained, common woody fragments.

771312

LAUNCESTON. GEOLOGICAL LOG REPORT ATP EL2080 LAUNCESTON TENEMENT 2080

STRAT NAME	SEQ NO.	SEAM NAME	WORK SECT	SAMPLE NUMBER	DEPTH (m)	THICK (m)	ROCK TYPE	GEOLOGICAL DESCRIPTION OF STRATA
					50.60	7.60	SAND	Light to medium grey; loose, non-plastic, fine grained, common woody fragments.
					END OF BORE AT	50.60 m		

EL2080 LAUNCESTON. R0035

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APPENDIX 4

EL 20/80 LAUNCESTON
EXPLORATION PROGRESS REPORT FOR
3 MONTH PERIOD ENDED
22 MAY, 1982

COPIES OF GRAPHIC LOGS
BOREHOLES DRILLED DURING
OCTOBER-DECEMBER 1981

82-1766
(Vol 3 of 8)

771C/3

LEGEND

LITHOLOGY REFERENCE


SOIL


CLAY


SILT


SAND


GRAVEL


ALLUVIUM


CLAYSTONE


MUDSTONE


SHALE


SILTSTONE


SANDSTONE


CONGLOMERATE


INTERBEDDED SEDIMENTS (SANDST/MUDST 50:50)


LIMESTONE


CALC-ARENITE


MARL


LIGNITE


LIGNITE (UNDIFF.)


LIGNITE WEATHERED


LIGNITE INFERIOR


LIGNITIC CLAY


GRANITE


SCHIST


BASEMENT (UNDIFF.)


CORE LOSS


L
R
R0001
R0002
R0003
R0004
C004R
R0005
R0006
R0007
R0008
R0009
R0010
R0011
R0012
R0013
R0014
R.L. 0.000
T.D. 35.00
T.D. 72.00
T.D. 87.00
T.D. 90.00
T.D. 43.13
T.D. 53.59
T.D. 75.00
T.D. 87.00
T.D. 95.00
T.D. 75.00
T.D. 58.34
T.D. 28.79
T.D. 73.59
T.D. 80.00
T.D. 80.00
HORIZONTAL SCALE
1:5000
100 50 0 50 100 150 200 250 300 350 400 450 500
VERTICAL SCALE
1:200
4.0 2.0 0.0 2.0 4.0 6.0 8.0 10.0 12.0 14.0 16.0 18.0 20.0
5 cm
CSR Exploration & Evaluation.
LAUNCESTON
SECTION 1 L - R
SCALE: AS SHOWN
DATE: 21-JUN-82
DRAWN: ELLIS
REVN
PLAN NO
CHECKED:
APPROVED:
001
CSR Limited
software by E.S.C.S. Thiess MIS
82-1766 Vol 3/6
771315

L

R

R.L. 0.000 R0015

T.D. 54.40

R.L. 0.000 R0017

T.D. 33.00

R.L. 0.000 R0018

T.D. 80.00

R.L. 0.000 C0019

T.D. 34.77

R.L. 0.000 R0020

T.D. 80.00

R.L. 0.000 C0021

T.D. 9.75

R.L. 0.000 C0022

T.D. 63.54

R.L. 0.000 R0023

T.D. 76.60

R.L. 0.000 R0024

T.D. 76.19

R.L. 0.000 R0025

T.D. 76.60

R.L. 0.000 R0026

T.D. 79.50

R.L. 0.000 R0027

T.D. 32.00

R.L. 0.000 R0028

T.D. 70.19

R.L. 0.000 R0029

T.D. 47.79

R.L. 0.000 R0030

T.D. 83.00

HORIZONTAL SCALE
1:5000

100 50 0 50 100 150 200 250 300 350 400 450 500

VERTICAL SCALE
1:200

4.0 2.0 0.0 2.0 4.0 6.0 8.0 10.0 12.0 14.0 16.0 18.0 20.0

5 cm

CSR Exploration & Evaluation.
LAUNCESTON

SECTION 2 L - R

SCALE: AS SHOWN		DATE:	21-JUN-82
DRAWN: ELLIS		REVN	PLAN NO
CHECKED:			002
APPROVED:			

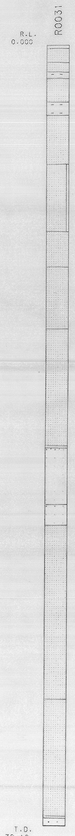
CSR Limited software by E.S.C.S. A Thiess MIS

92-1766

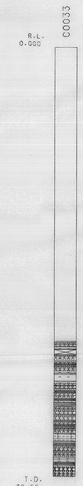
771316 Vol 3/6

L

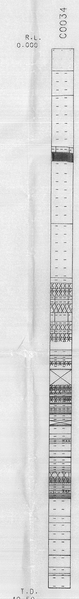
R





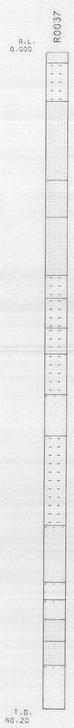














HORIZONTAL SCALE
1:5000

100 50 0 50 100 150 200 250 300 350 400 450 500

VERTICAL SCALE
1:200

4.0 2.0 0.0 2.0 4.0 6.0 8.0 10.0 12.0 14.0 16.0 18.0 20.0

5 cm

CSR Exploration & Evaluation.
LAUNCESTON

SECTION 3 L - R

SCALE: AS SHOWN		DATE:	21-JUN-82
DRAWN: ELLIS		REVN	PLAN NO
CHECKED:			
APPROVED:			353

CSR Limited — software by E.S.C.S. & Thiess MIS

771317

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APPENDIX 5

EL 20/80 LAUNCESTON
EXPLORATION PROGRESS REPORT FOR
3 MONTH PERIOD ENDED
22 MAY, 1982

COPIES OF GEOPHYSICAL LOGS
OF BOREHOLES DRILLED DURING
OCTOBER-DECEMBER 1981

82-1766
(Vol 4 of 8)

771c/4

000

771319

IMAGE FILMED

BOREHOLE LOGS R001 to C004

WESTBURY, TASMANIA

LOGGED FOR C.S.R. ENERGY DIVISION

By: Murdoch Geophysics (Australia),
21 Parker Street,
Maroochydore Qld. 4558

Phone: (071) 433922

February 1982.

001

771320

INTRODUCTION

The borehole logs included herein are for holes R001 to C004, drilled in the Westbury district in Northern Tasmania, from 6/10/81 to 7/12/81 by C.S.R. Energy Division.

The holes were logged by Mr. D. Dougherty and Mr. S. Morgan of Murdoch Geophysics (Australia). The holes were logged for Resistivity, Gamma, Gamma Gamma Density (side wall) and Caliper.

The specification of the tools used is included. At the surface, the data was recorded on an SIE T450 recorder interfaced to an HP85 recorder via a Murdoch Geophysics (Australia) CAL interface. An analogue record of each log was obtained from the SIE surface recorder. The data was digitized by the CAL interface and recorded on data cartridge on the HP85 desk top computer.

The data presented herein has been replayed onto a HP7225B A4 size plotter. The logging scales used are:-

Gamma: 1 centimetre = 2.5 counts per second
and 1 centimetre = 5 counts per second.

The density log has been plotted in reverse throw -
1 centimetre: 100 counts per second.

Logging speeds used were : 6 metres per minute.

Resistivity Scales: See individual logs.

The logs are now presented side by side in A4 format, with 25 metres of hole per page (1:100). Other types of format on vertical or horizontal scales are available, and can be provided upon request. Individual parts of each log can also be re-plotted at different scales when required.

MURDOCH GEOPHYSICS - INFORMATION ON LOGGING TOOLS

(a) Single Point Resistivity/SP Tool (Single Pass)

Company of Manufacture - S.I.E. Brisbane

Ranges Available: Resistivity (ohms) :- 25, 50, 100, 250, 500, 1000.
: SP :- Positive or negative deflection.
Maximum deflections (mV) :- 25, 50, 100, 250, 500, 1000.
Detection Method (Resistivity) :- Surface voltage pick-up with constant current output from tool.

Diameter :- 3.3 cm.

Length :- 0.34 metres.

(b) Gamma Tool (Single Pass)

Company of Manufacture - S.I.E. Brisbane.

Ranges Available: 25, 50, 100, 250, 500, 1000, 2500, 5000, 10000, 25000 count/second (CPS).

Time Constants Available :- 0.5, 1, 2, 5, 10 sec.

Detection Method - Scintillation method consisting of Sodium Iodide crystal coupled with a photo-multiplier tube.

Crystal size :- 1.9 cm diameter x 2.5 long (7.1 cm^3)

Diameter :- 3.5 cm.

Length :- 1.095 metres.

(c) Gamma Gamma Density (Side Wall) (Single Pass)

Company of Manufacture - S.I.E. Brisbane

Ranges Available - 25, 50, 100, 250, 500, 1000, 2500, 5000, 10000, 2500, 50000, CPS.

Time Constants Available - 0.5, 1, 2, 5, 10 sec.

Detection Method - Scintillation method consisting of Sodium Iodide crystal coupled with a photomultiplier.

Crystal Size - 1.9 cm diameter x 2.5 cm long (7.1 cm^3)

Source - Collimated Cesium (Cs) 137.

Source Strengths Available - 10 millicurie & 50 millicurie.

Source-Detector Spacings Available - 20 cm (BRD), 30 cm, 35 cm, 45 cm.

Diameter - 3.5 cm (no spring); 6.0 cm (with spring).

Length (BRD spacing) - 1.26 metres.

(d) Caliper Tool (Single Pass)

Company of Manufacture - S.I.E. Brisbane

Ranges Available - Variable according to client's wishes. Normally run at 0" - 10". Full Scale deflection (to correspond with vertical divisions on chart paper).

Minimum diameter hole - 4.5 cm.

Maximum diameter hole - 36 cm.

Detection Method - 3-Arm caliper system with arms mechanically interlocked. Borehole diameter transmitted via linear displacement transducer in tool.

Diameter - 4.4 cm.

Length - 1.055 metres.

004

771323



BOREHOLE : R001

CLIENT : C.S.R.

LOCATION : Westbury. Tasmania.

DATE LOGGED : 6-10-81 BY D. DOUGHERTY

EQUIPMENT DATA

LOG	Tape No./File	Recording Speed (m/min)	T.C. Sec.	Source	Borehole Position	Depth Logged
Resistivity (PR)		6	—	—	Free	0 m TO 22 m
Self Potential	—	—	—	—	Free	TO —
Nat. Gamma (γ)		6	2	—	Free	1m TO 19m
γ-γ Density		6	1	Cs137	Sidewall	1m TO 22m
Neutron		—	1	—	Sidewall	— TO —
Caliper		6	—	—	3-Arm	1m TO 22 m

BOREHOLE DATA

Date Drilled: 6-10-81 Tot. Depth Drilled (Driller) : .....

Permanent Datum: G.L. Elevation of P.D. : .....

Casing: Type: ..... Depth: .....

Bit Sizes: 1 ..... From ..... to .....
2 ..... From ..... to .....

FLUID DATA: Nature: ..... S.G.: .....

Viscosity: ..... Level: 0.9 metre

771324

005

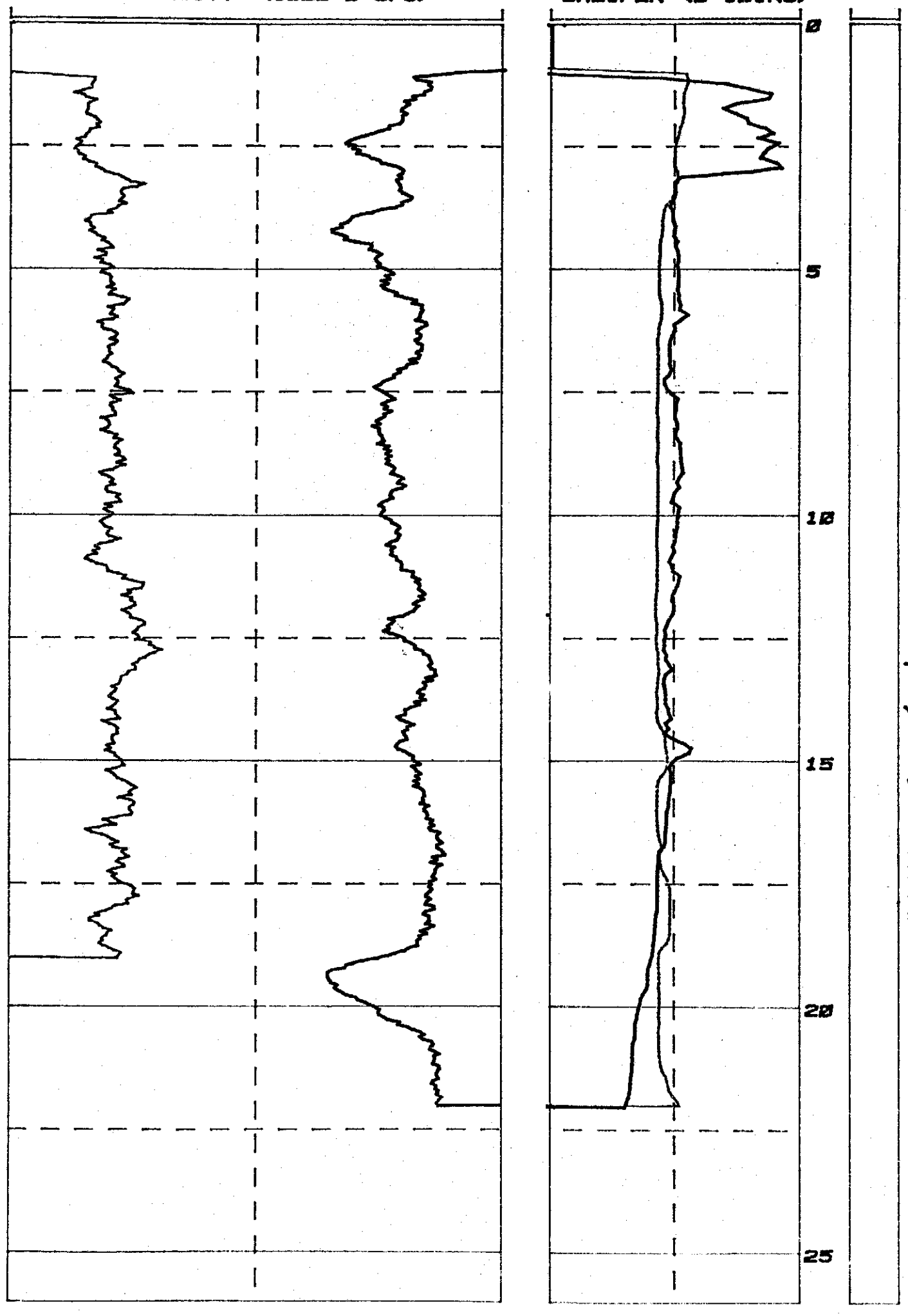
BOREHOLE NO. R001

GAMMA (0-25 CPS)

L.S. DENSITY (1000-0 CPS)

RES (500-1500 OHMS)

CALIPER (0-10INS)



MURDOCH GEOPHYSICS Corrected Playback LOG: R001

006 771325

BOREHOLE: R002



CLIENT: C.S.R.

LOCATION: Westbury. Tasmania.

DATE LOGGED: 8-10-81 BY D. DOUGHERTY

EQUIPMENT DATA

LOG	Tape No./File	Recording Speed (m/min)	T.C. Sec.	Source	Borehole Position	Depth Logged
Resistivity (PR)		6	—	—	Free	0 m TO 37 m
Self Potential	—	—	—	—	Free	— TO —
Nat. Gamma (γ)		6	2	—	Free	1m TO 37m
γ-γ Density		6	1	Cs137	Sidewall	1m TO 37m
Neutron		—	1	—	Sidewall	— TO —
Caliper		6	—	—	3-Arm	1m TO 37 m

BOREHOLE DATA

Date Drilled: ..... Tot. Depth Drilled (Driller): .....

Permanent Datum: G.L. Elevation of P.D.: .....

Casing: Type: ..... Depth: .....

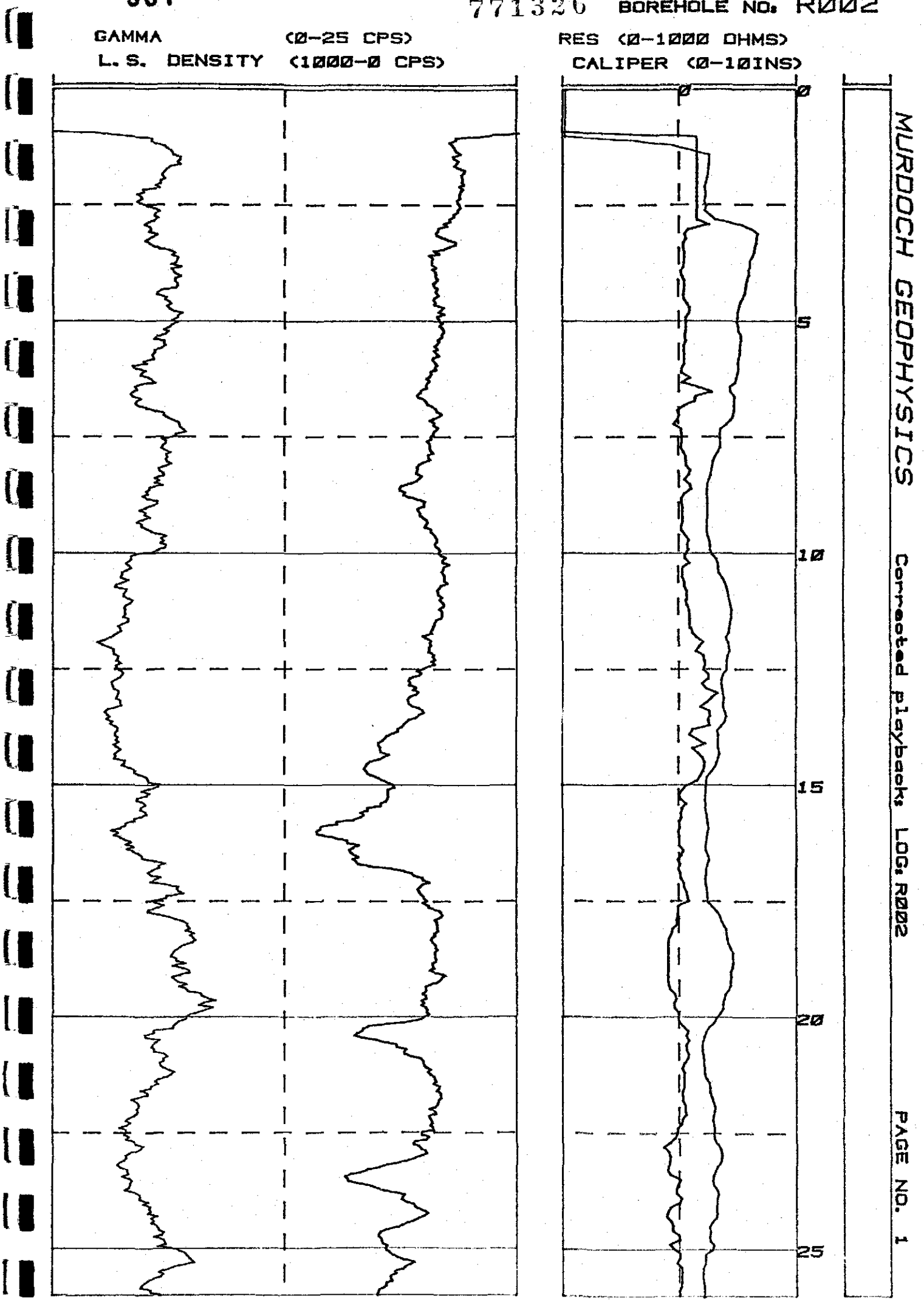
Bit Sizes: 1 ..... From ..... to .....
2 ..... From ..... to .....

FLUID DATA: Nature: ..... S.G.: .....

Viscosity: ..... Level: 1.2 metres

007

771326 BOREHOLE NO: R002



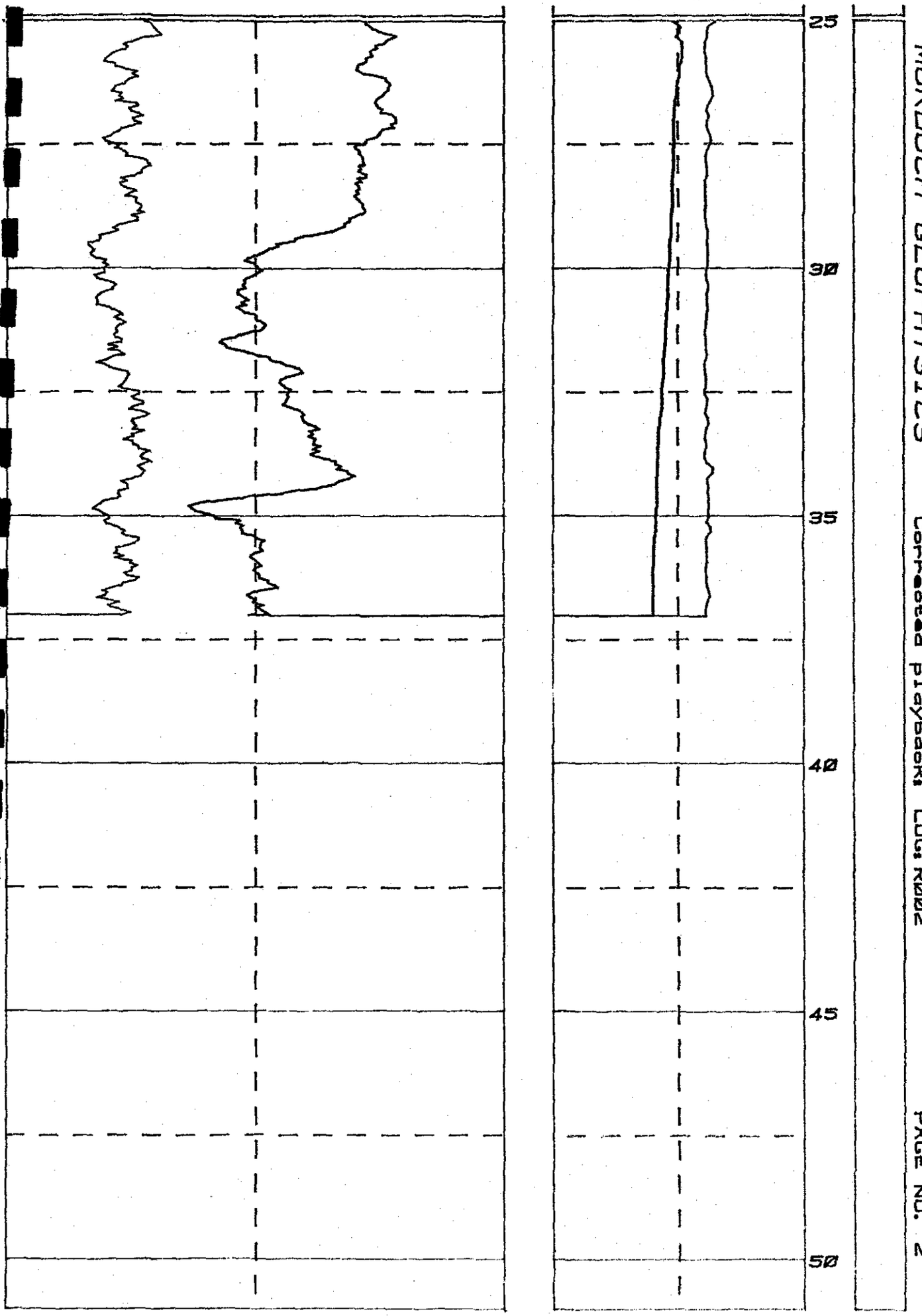
008

771327

BOREHOLE NO: R002

GAMMA (0-25 CPS)
L.S. DENSITY (1000-0 CPS)

RES (0-1000 OHMS)
CALIPER (0-10INS)



MURDOCH GEOPHYSICS Corrected playback: LOG: R002

PAGE NO. 2

009

771328

BOREHOLE : R003

CLIENT : C.S.R.

LOCATION: Westbury. Tasmania.

DATE LOGGED: 10-10-81 BY D. DOUGHERTY



EQUIPMENT DATA

LOG	Tape No./File	Recording Speed (m/min)	T.C. Sec.	Source	Borehole Position	Depth Logged
Resistivity (PR)		6	—	—	Free	0 m TO 20 m
Self Potential	—	—	—	—	Free	TO —
Nat. Gamma (γ)		6	2	—	Free	1m TO 20 m
γ-γ Density		6	1	Cs137	Sidewall	1m TO 20 m
Neutron		—	1	—	Sidewall	— TO —
Caliper		6	—	—	3-Arm	1m TO 20 m

BOREHOLE DATA

Date Drilled: 10-10-81 Tot. Depth Drilled (Driller): .....

Permanent Datum: G.L. Elevation of P.D.: .....

Casing: Type: ..... Depth: .....

Bit Sizes: 1 ..... From ..... to .....
2 ..... From ..... to .....

FLUID DATA: Nature: ..... S.G.: .....

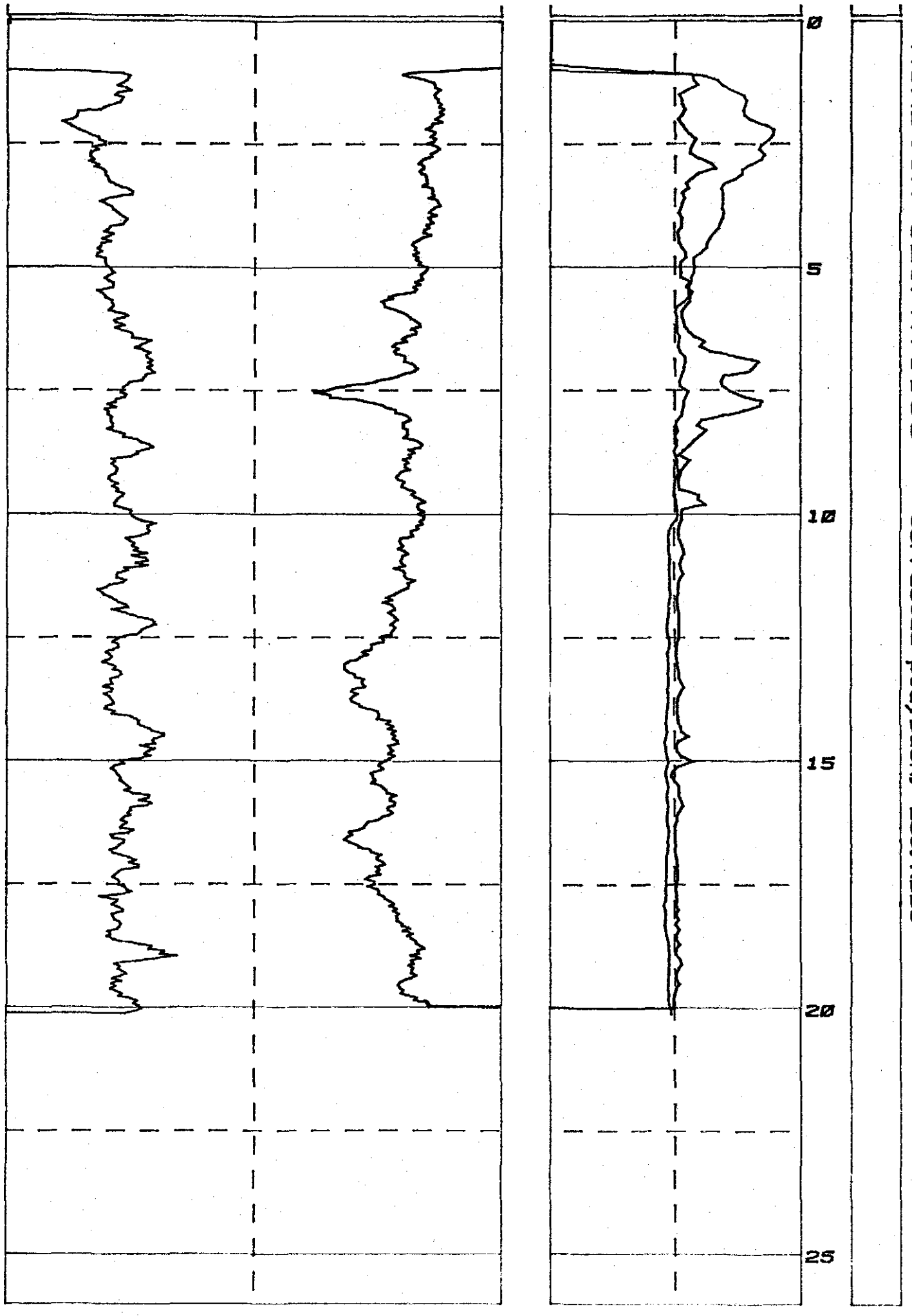
Viscosity: ..... Level: 1 metre

010

771329 BOREHOLE NO: R003

GAMMA (0-25 CPS)
L.S. DENSITY (1000-0 CPS)

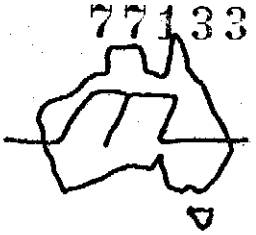
RES (0-1000 OHMS)
CALIPER (0-10INS)



MURDOCH GEOPHYSICS Corrected playback LOG: R003

011

771330



BOREHOLE : R004

CLIENT : C.S.R.

LOCATION : Westbury. Tasmania.

DATE LOGGED: 10-10-81 BY D. DOUGHERTY

EQUIPMENT DATA

LOG	Tape No./File	Recording Speed (m/min)	T.C. Sec.	Source	Borehole Position	Depth Logged
Resistivity (PR)		6	—	—	Free	0 m TO 56 m
Self Potential	—	—	—	—	Free	— TO —
Nat. Gamma (γ)		6	2	—	Free	1m TO 56 m
γ-γ Density		6	1	Cs137	Sidewall	1m TO 56 m
Neutron		—	1	—	Sidewall	— TO —
Caliper		6	—	—	3-Arm	1m TO 56 m

BOREHOLE DATA

Date Drilled: 10-10-81 Tot. Depth Drilled (Driller) : .....

Permanent Datum: G.L. Elevation of P.D. : .....

Casing: Type: ..... Depth: .....

Bit Sizes: 1 ..... From ..... to .....
2 ..... From ..... to .....

FLUID DATA: Nature: ..... SG.: .....

Viscosity: ..... Level: 41 metres

012

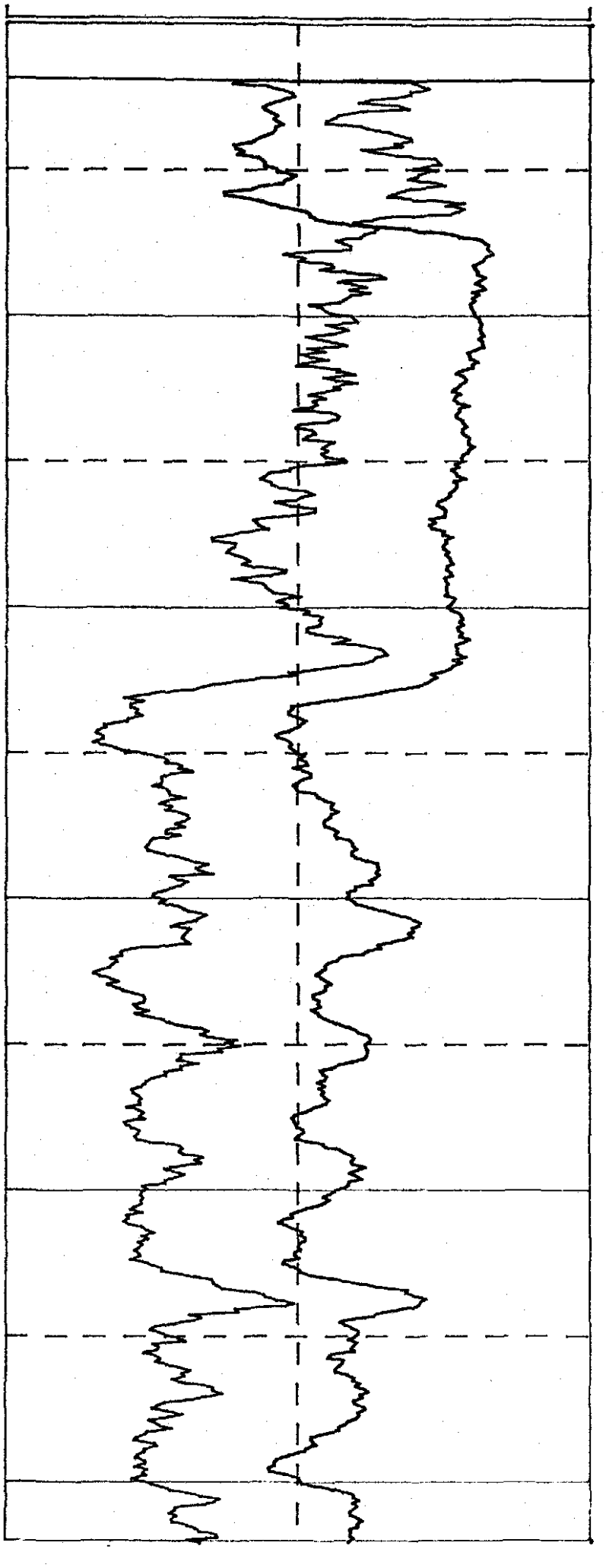
771331 BOREHOLE NO: R004

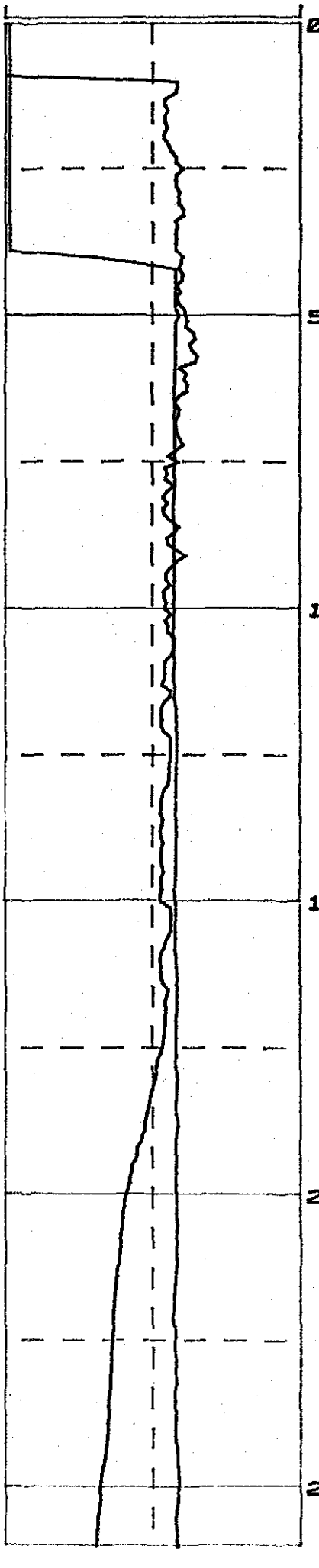
GAMMA (0-50 CPS)

L.S. DENSITY (1000-0 CPS)

RES (500-1000 OHMS)

CALIPER (0-10INS)





MURDOCH GEOPHYSICS

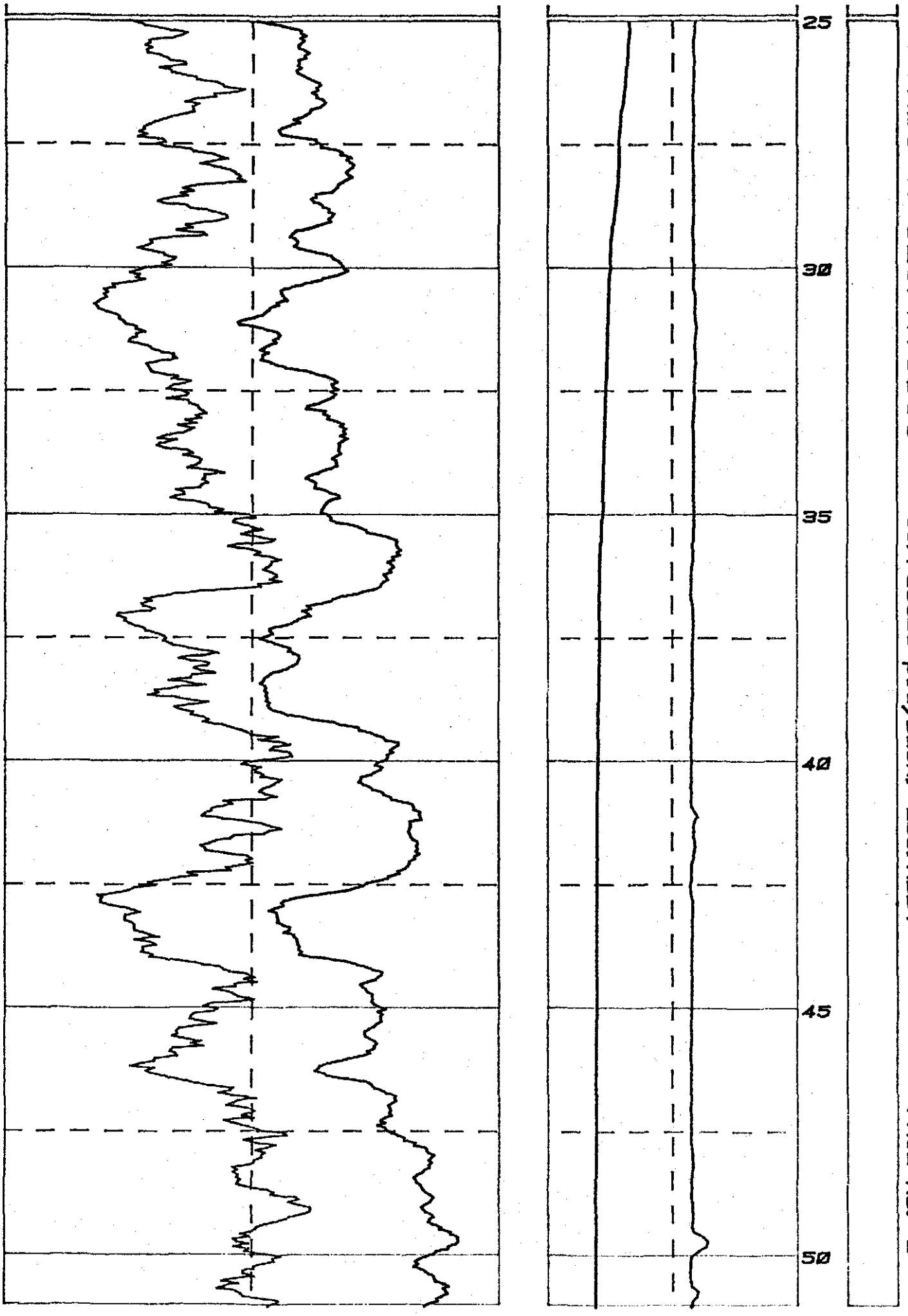
Corrected playback: LOG: R004

PAGE NO. 1

013 771332 BOREHOLE NO. RØØ4

GAMMA (Ø-5Ø CPS)
L.S. DENSITY (1ØØØ-Ø CPS)

RES (5ØØ-1ØØØ OHMS)
CALIPER (Ø-1ØINS)



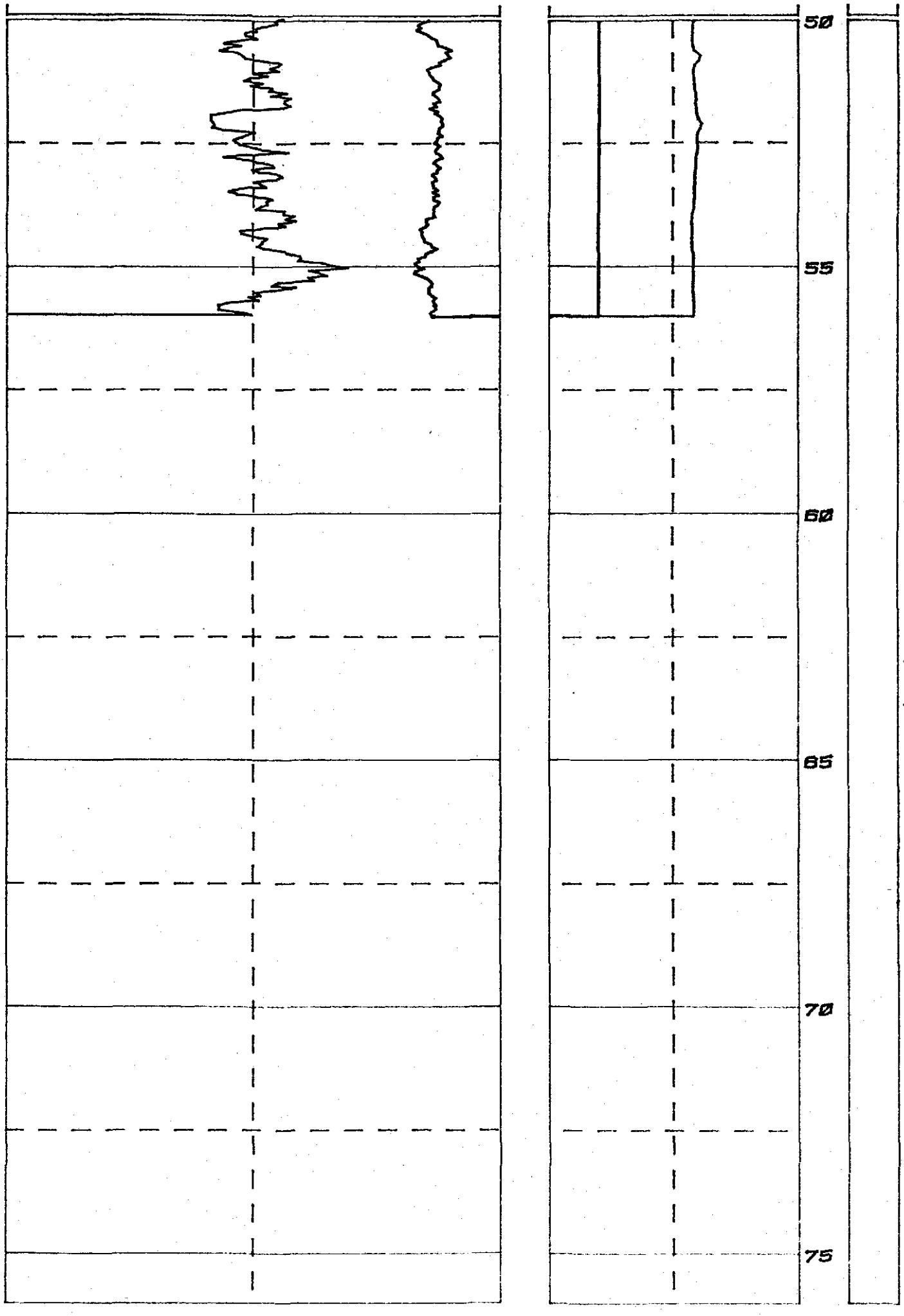
MURDOCH GEOPHYSICS Corrected playback LOG: RØØ4 PAGE NO. 2

014

771333 BOREHOLE NO. RØØ4

GAMMA (Ø-5Ø CPS)
L.S. DENSITY (1ØØØ-Ø CPS)

RES (5ØØ-1ØØØ OHMS)
·CALIPER (Ø-1ØINS)



MURDOCH GEOPHYSICS Corrected playback LOG: RØØ4 PAGE NO. 3

015 771334

BOREHOLE : R005



CLIENT : C.S.R.

LOCATION: Westbury. Tasmania.

DATE LOGGED: 14-10-81 BY D. DOUGHERTY

EQUIPMENT DATA

LOG	Tape No./File	Recording Speed (m/min)	T.C. Sec.	Source	Borehole Position	Depth Logged
Resistivity (PR)		6	—	—	Free	0 m TO 29 m
Self Potential	—	—	—	—	Free	— TO —
Nat. Gamma (γ)		6	2	—	Free	1m TO 29 m
γ-γ Density		6	1	Cs137	Sidewall	1m TO 30 m
Neutron		—	1	—	Sidewall	— TO —
Caliper		6	—	—	3-Arm	1m TO 30 m

BOREHOLE DATA

Date Drilled: 14-10-81 Tot. Depth Drilled (Driller) : .....

Permanent Datum: G.L. Elevation of P.D.: .....

Casing: Type: ..... Depth: .....

Bit Sizes: 1 ..... From ..... to .....
2 ..... From ..... to .....

FLUID DATA: Nature: ..... SG.: .....

Viscosity: ..... Level: 1.9 metres

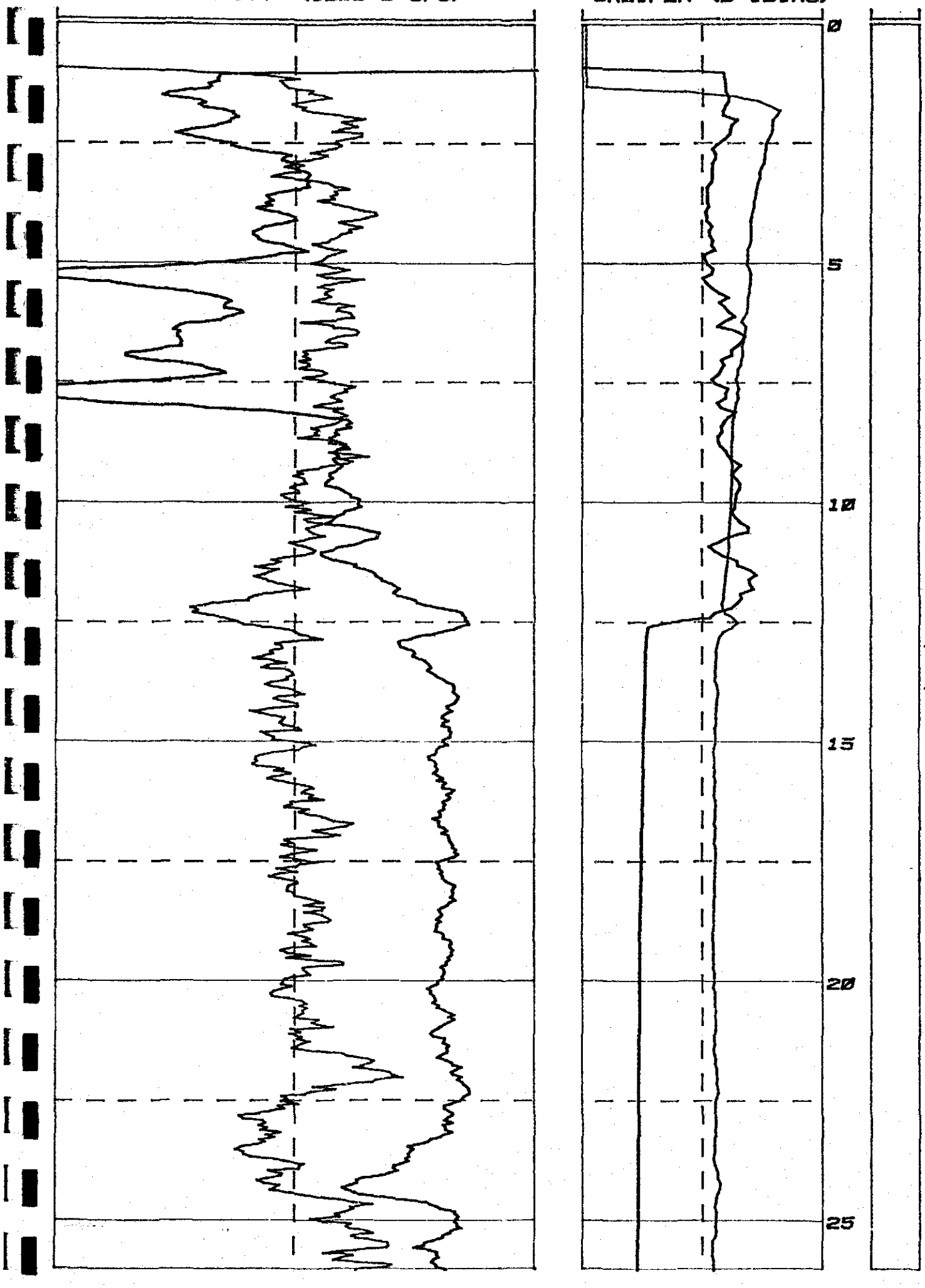
016

771335

BOREHOLE NO. R005

GAMMA (0-50 CPS)
L.S. DENSITY (1000-0 CPS)

RES (0-100 OHMS)
CALIPER (0-10INS)



MURDOCH GEOPHYSICS Corrected playback LOG: R005 PAGE NO. 1

017

771336

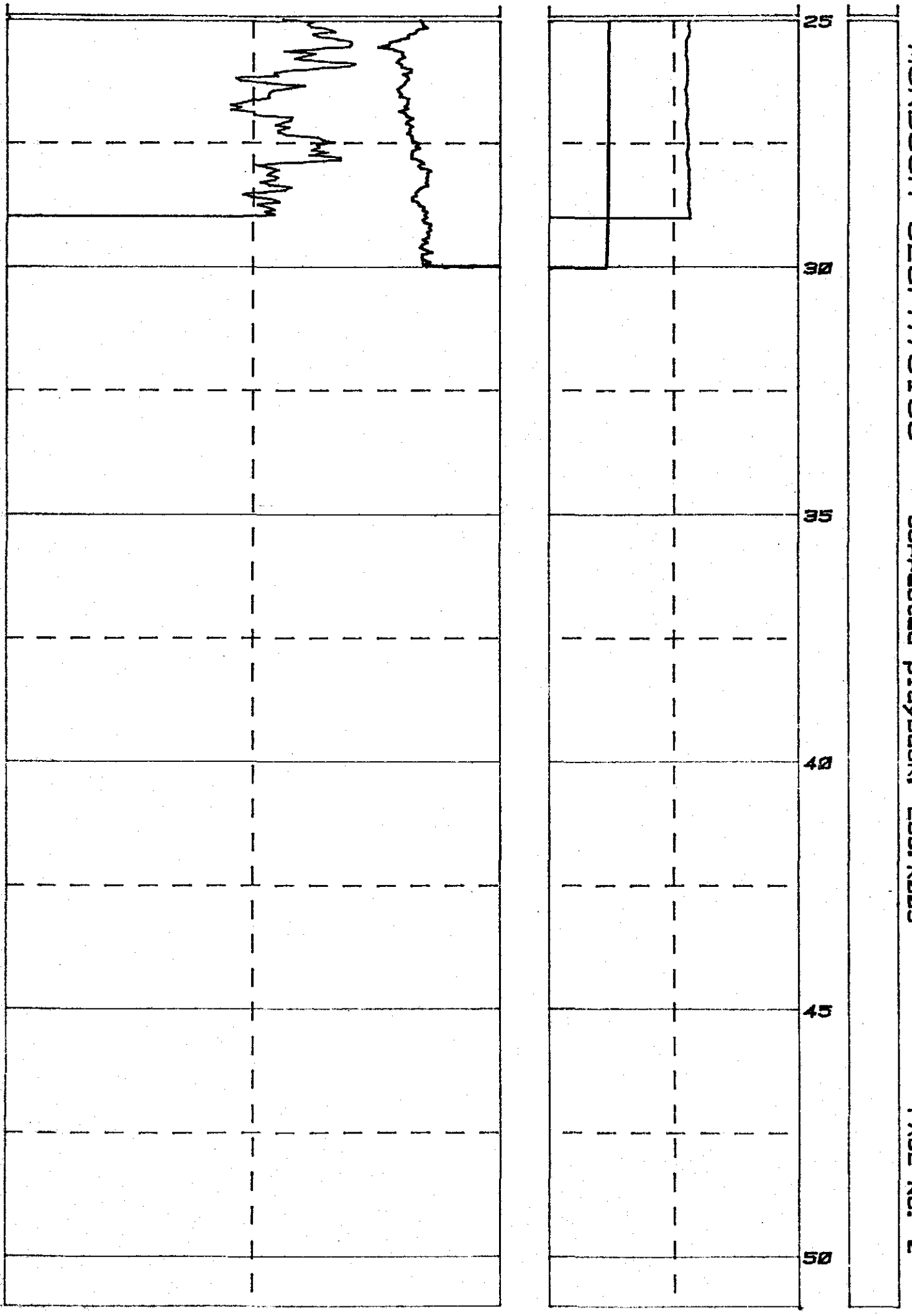
BOREHOLE NO. R005

GAMMA (0-50 CPS)

L.S. DENSITY (1000-0 CPS)

RES (0-100 OHMS)

CALIPER (0-10INS)



MURDOCH GEOPHYSICS

Corrected playback: LOG: R005

PAGE NO. 2

018 771337

BOREHOLE : R006

CLIENT : C.S.R.

LOCATION: Westbury. Tasmania.

DATE LOGGED: 15-10-81 BY D. DOUGHERTY



EQUIPMENT DATA

LOG	Tape No./File	Recording Speed (m/min)	T.C. Sec.	Source	Borehole Position	Depth Logged
Resistivity (PR)		6	—	—	Free	0 m TO 44 m
Self Potential	—	—	—	—	Free	TO —
Nat. Gamma (γ)		6	2	—	Free	1m TO 44 m
γ-γ Density		6	1	Cs137	Sidewall	1m TO 44 m
Neutron		—	1	—	Sidewall	— TO —
Caliper		6	—	—	3-Arm	1m TO 44 m

BOREHOLE DATA

Date Drilled: 15-10-81 Tot. Depth Drilled (Driller): .....

Permanent Datum: G.L. Elevation of P.D.: .....

Casing: Type: ..... Depth: .....

Bit Sizes: 1 ..... From .....to .....
2 ..... From .....to .....

FLUID DATA: Nature: ..... S.G.: .....

Viscosity: ..... Level: G/L.....

019

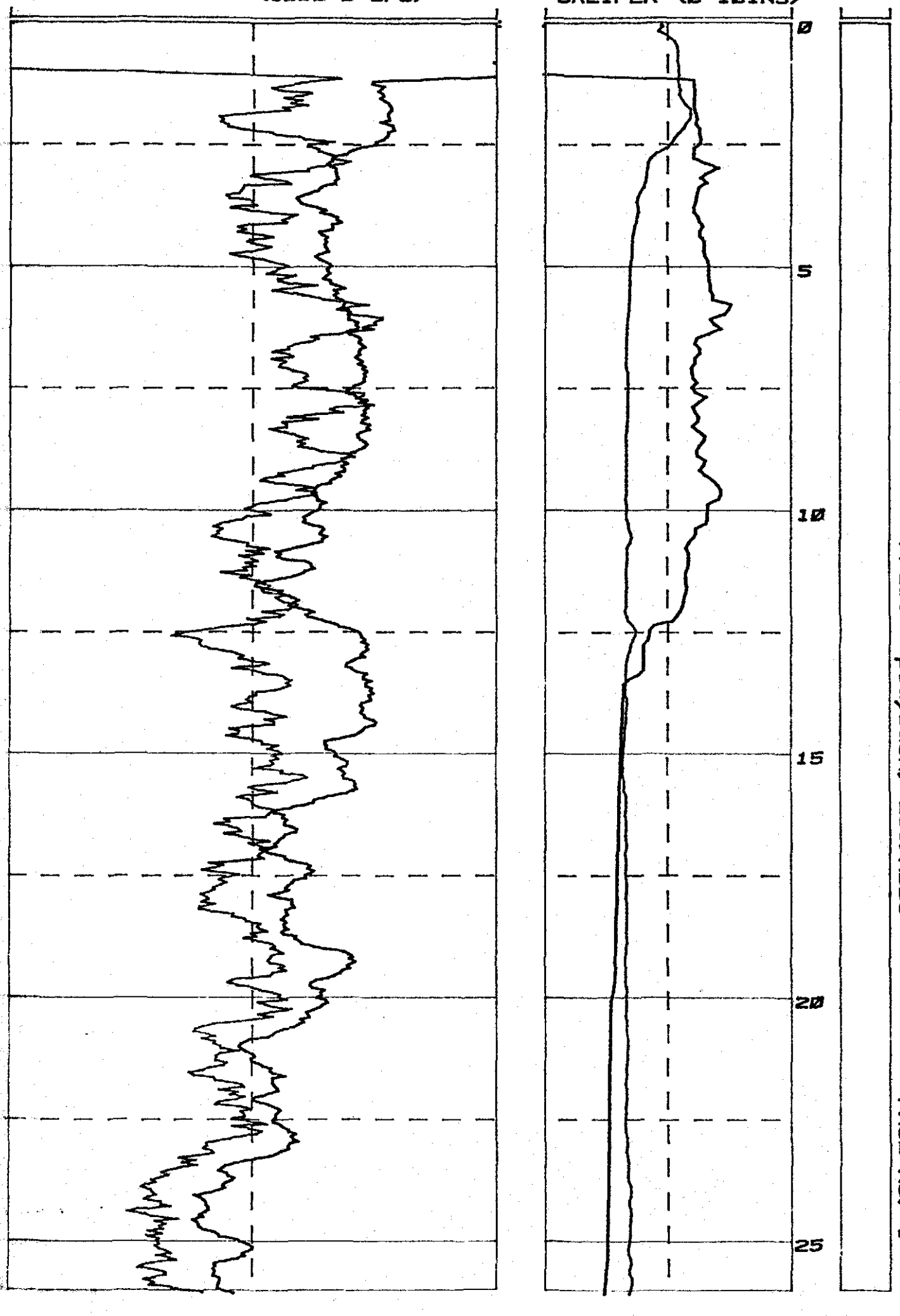
771338 BOREHOLE NO: R006

GAMMA (0-50 CPS)

L.S. DENSITY (1000-0 CPS)

RES (0-250 OHMS)

CALIPER (0-10INS)



MURDOCH GEOPHYSICS Corrected playback: LOG: R008

PAGE NO. 1

771339 BOREHOLE NO. R006

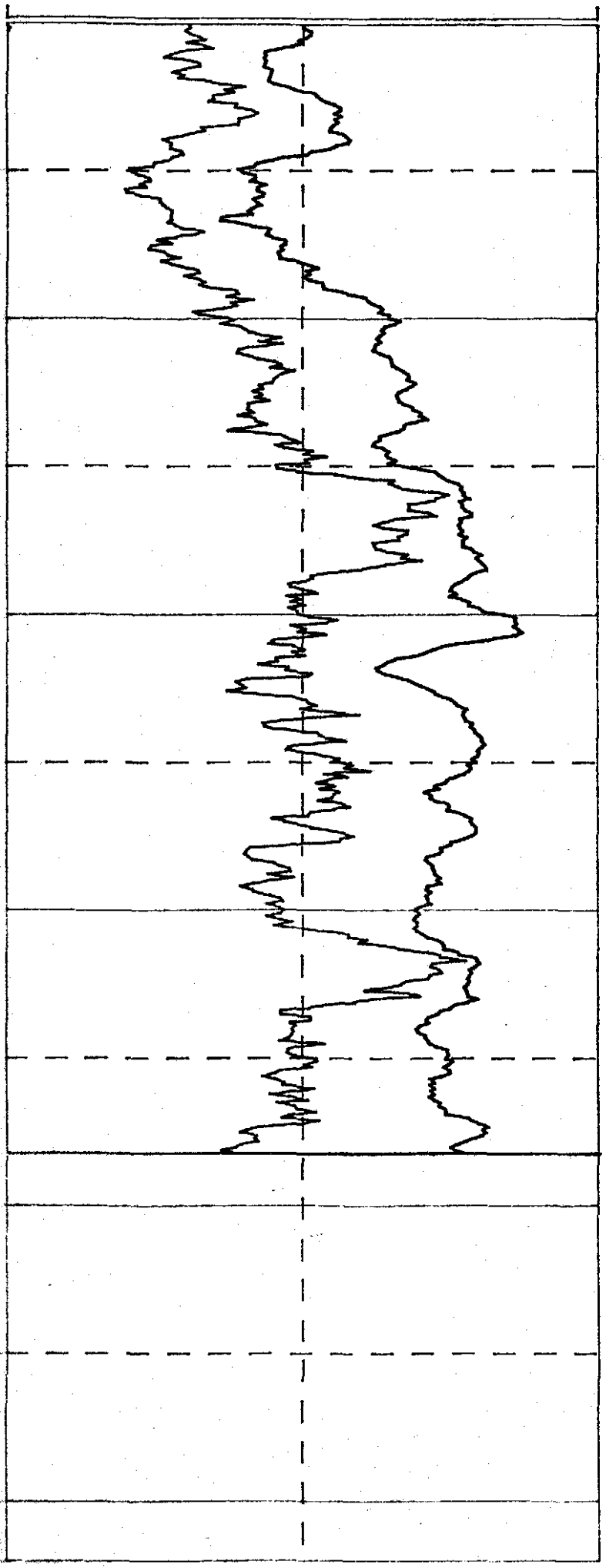
020

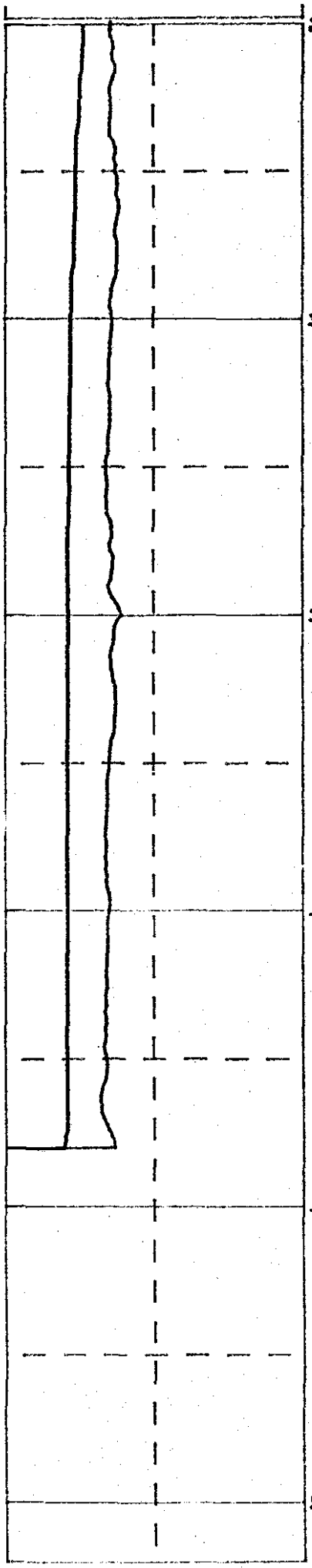
GAMMA (0-50 CPS)

L.S. DENSITY (1000-0 CPS)

RES (0-250 OHMS)

CALIPER (0-10INS)





25

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MURDOCH GEOPHYSICS Corrected playback: LOG: R006

PAGE NO. 2

021

771340

BOREHOLE: R007

CLIENT: C.S.R.

LOCATION: Westbury. Tasmania.

DATE LOGGED: 17-10-81 BY

EQUIPMENT DATA

LOG	Tape No./File	Recording Speed (m/min)	T.C. Sec.	Source	Borehole Position	Depth Logged
Resistivity (PR)		6	—	—	Free	0 m TO 64 m
Self Potential	—	—	—	—	Free	TO —
Nat. Gamma (γ)		6	2	—	Free	1m TO 84 m
γ-γ Density		6	1	Cs137	Sidewall	1m TO 84 m
Neutron		—	1	—	Sidewall	— TO —
Caliper		6	—	—	3-Arm	1m TO 84 m

BOREHOLE DATA

Date Drilled: 17-10-81 Tot. Depth Drilled (Driller):

Permanent Datum: G.L. Elevation of P.D.:

Casing: Type: Depth:

Bit Sizes: 1 From to
2 From to

FLUID DATA: Nature: SG.:

Viscosity: Level: 2.3 metres

022

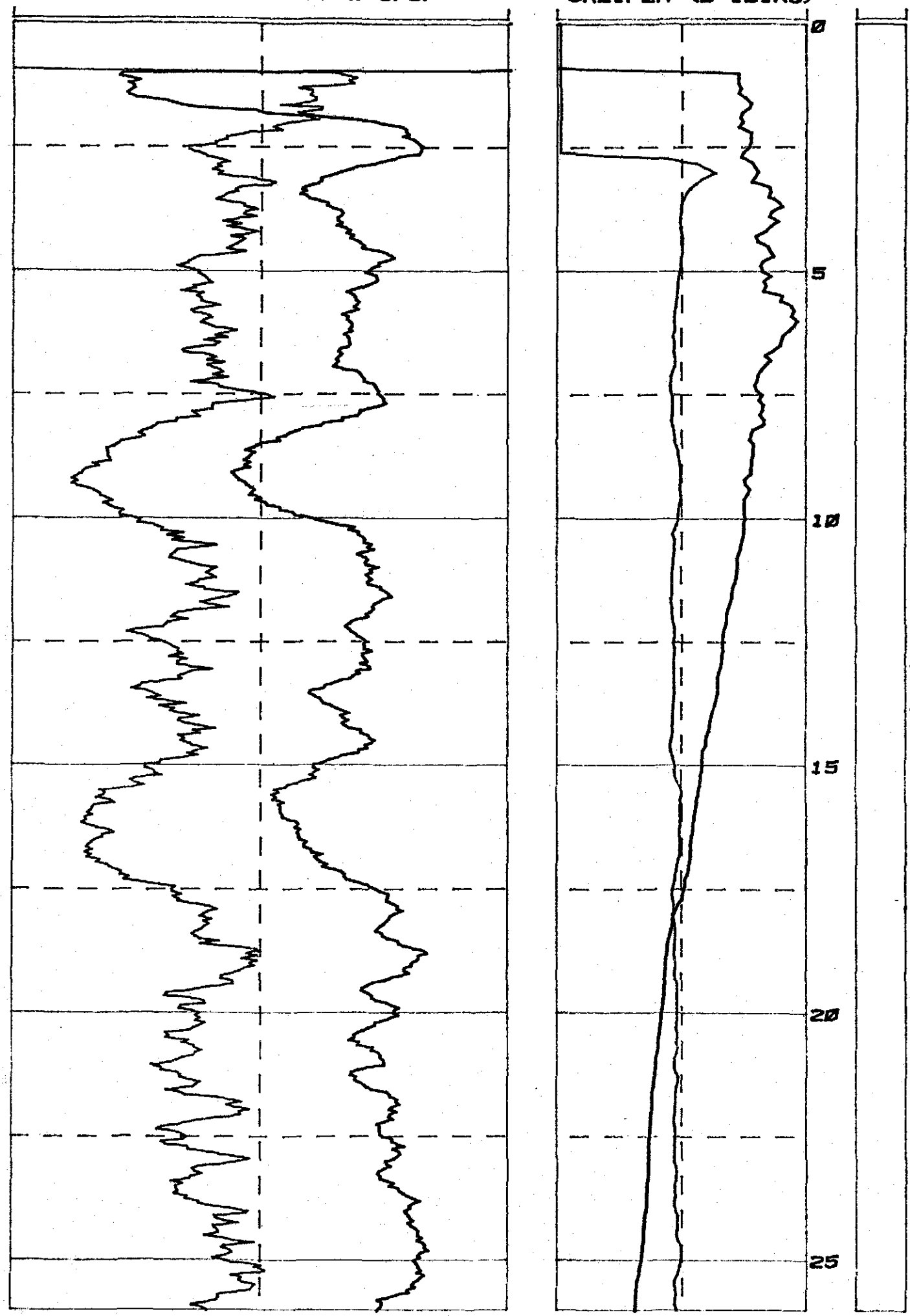
771341 BOREHOLE NO. R007

GAMMA (0-50 CPS)

L.S. DENSITY (1000-0 CPS)

RES (0-250 OHMS)

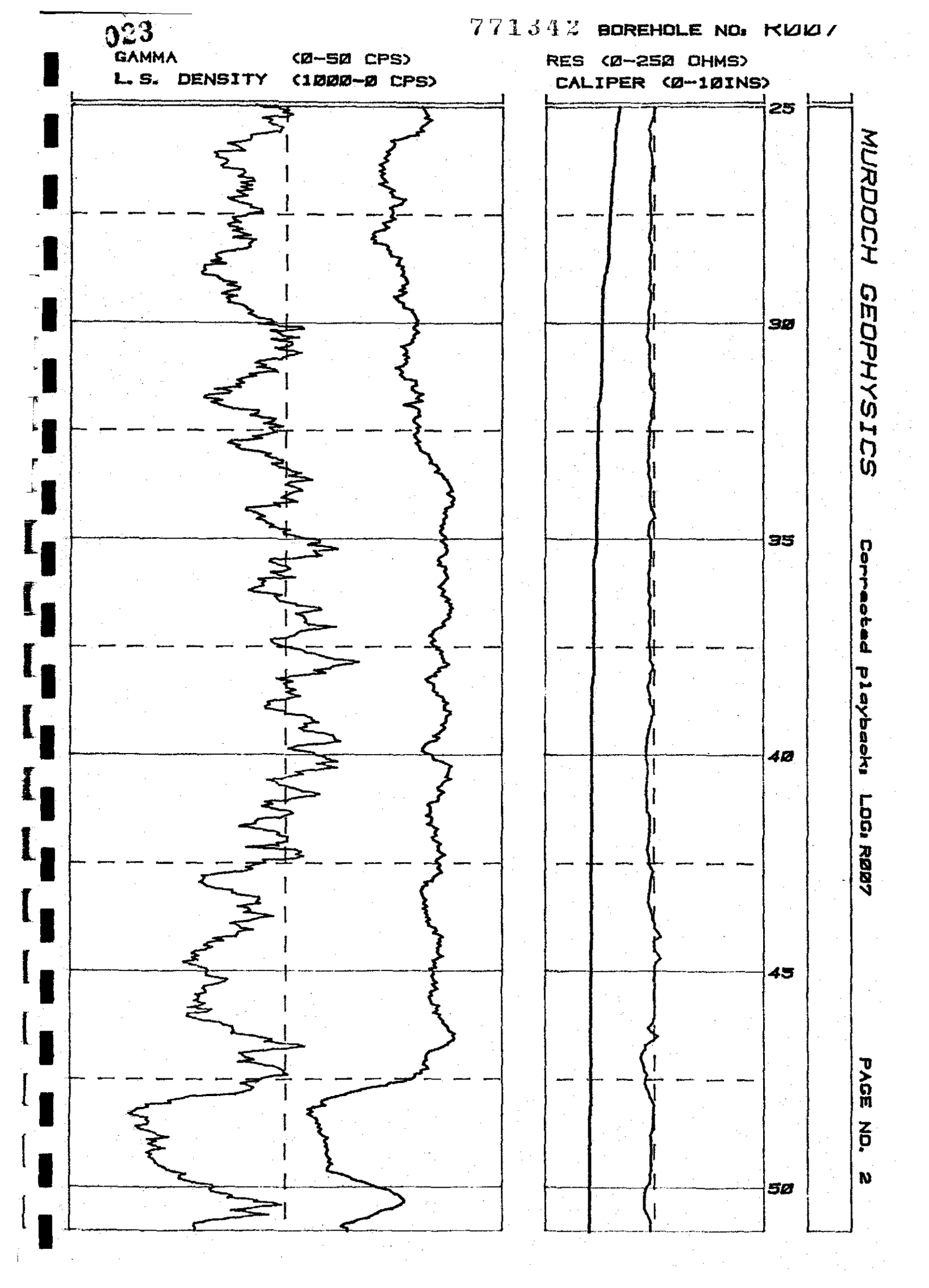
CALIPER (0-10INS)



MURDOCH GEOPHYSICS Corrected playback LOG: R007 PAGE NO. 1

023

771342 BOREHOLE NO: R007



024

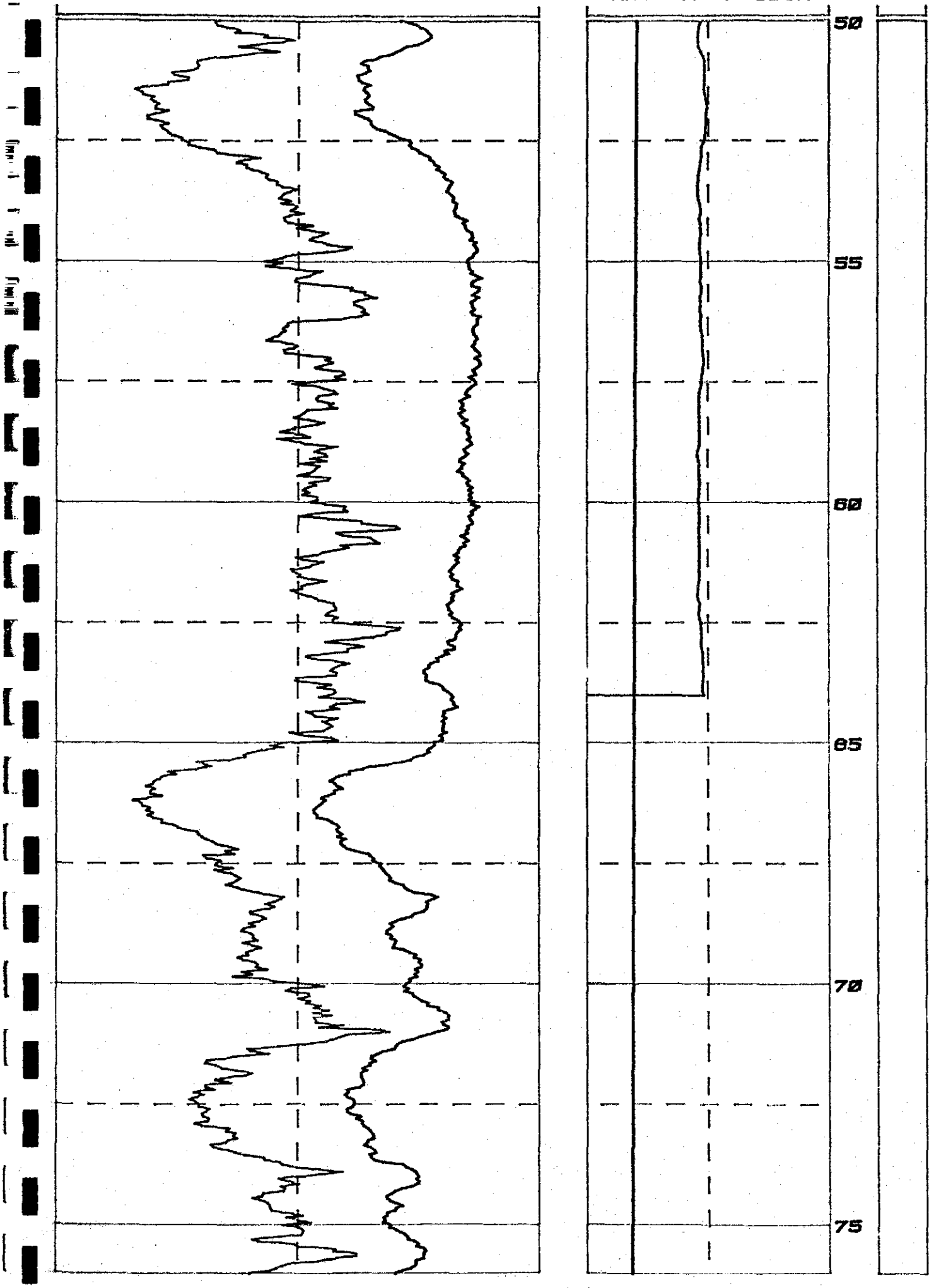
771343 BOREHOLE NO. R007

GAMMA (0-50 CPS)

L.S. DENSITY (1000-0 CPS)

RES (0-250 OHMS)

CALIPER (0-10INS)



MURDOCH GEOPHYSICS Corrected playback LOG: R007 PAGE NO. 3

025

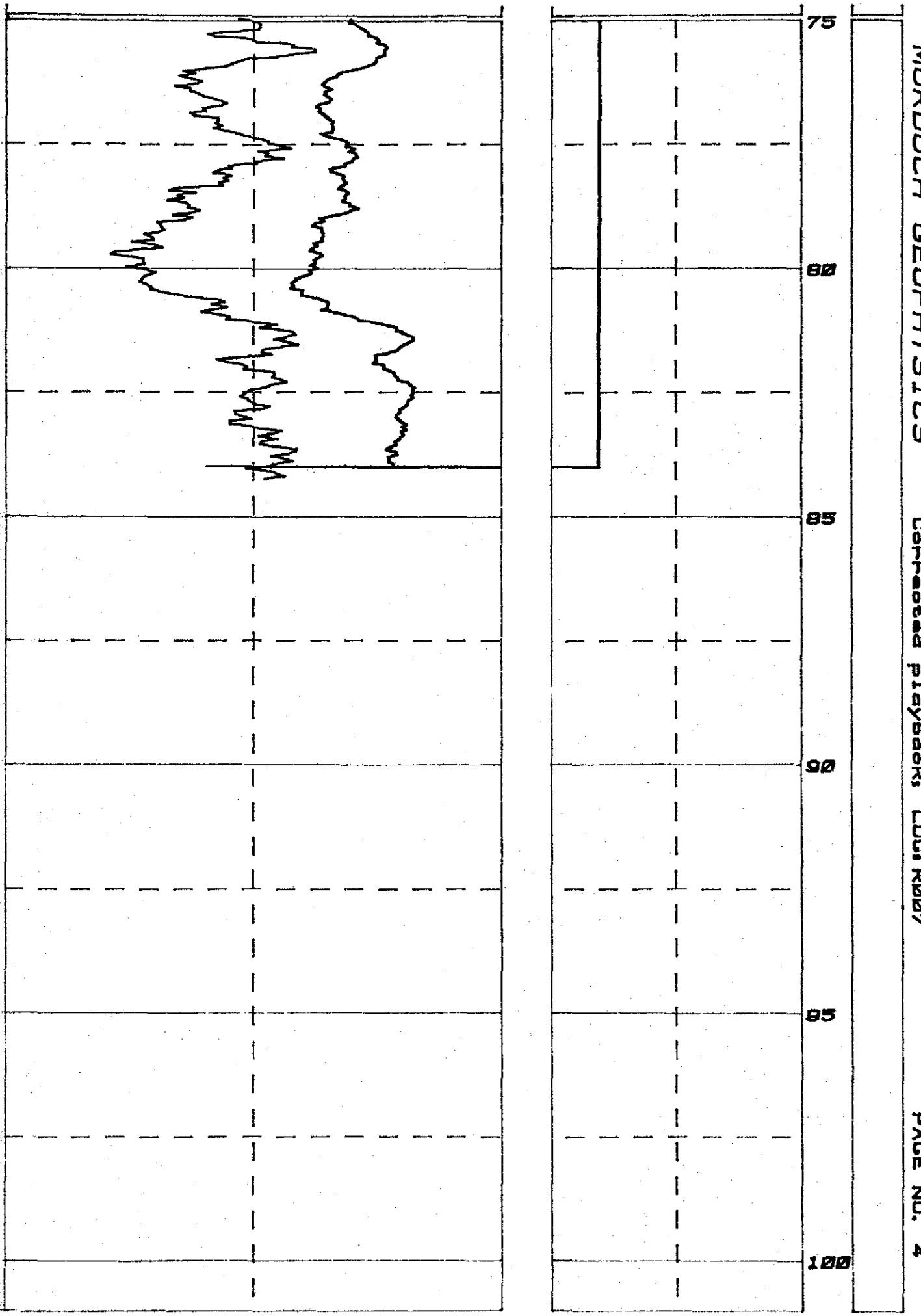
771344

BOREHOLE NO. R007

GAMMA (0-50 CPS)

L.S. DENSITY (1000-0 CPS)

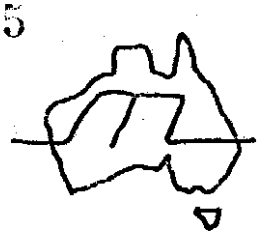
CALIPER (0-10INS)



MURDOCH GEOPHYSICS Corrected playback LOG: R007 PAGE NO. 4

026 771345

BOREHOLE: R008



CLIENT: C.S.R.

LOCATION: Westbury. Tasmania.

DATE LOGGED: 21-10-81 BY D. DOUGHERTY

EQUIPMENT DATA

LOG	Tape No./File	Recording Speed (m/min)	T.C. Sec.	Source	Borehole Position	Depth Logged
Resistivity (PR)		6	—	—	Free	0 m TO 66 m
Self Potential	—	—	—	—	Free	TO —
Nat. Gamma (γ)		6	2	—	Free	1m TO 66 m
γ-γ Density		6	1	Cs137	Sidewall	1m TO 66 m
Neutron		—	1	—	Sidewall	— TO —
Caliper		6	—	—	3-Arm	1m TO 66 m

BOREHOLE DATA

Date Drilled: 21-10-81 Tot. Depth Drilled (Driller): .....

Permanent Datum: G.L. Elevation of P.D.: .....

Casing: Type: ..... Depth: .....

Bit Sizes: 1 ..... From ..... to .....
2 ..... From ..... to .....

FLUID DATA: Nature: ..... S.G.: .....

Viscosity: ..... Level: 2.8 metres

027

771346

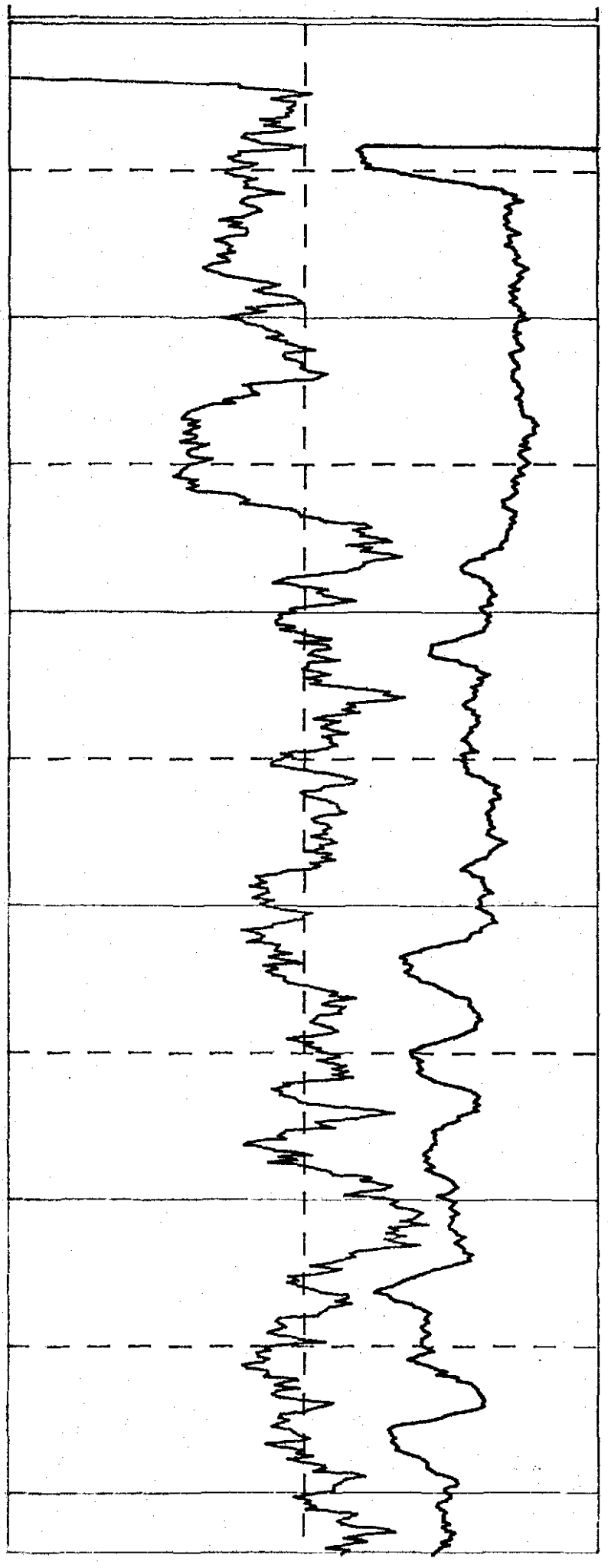
BOREHOLE NO: R008

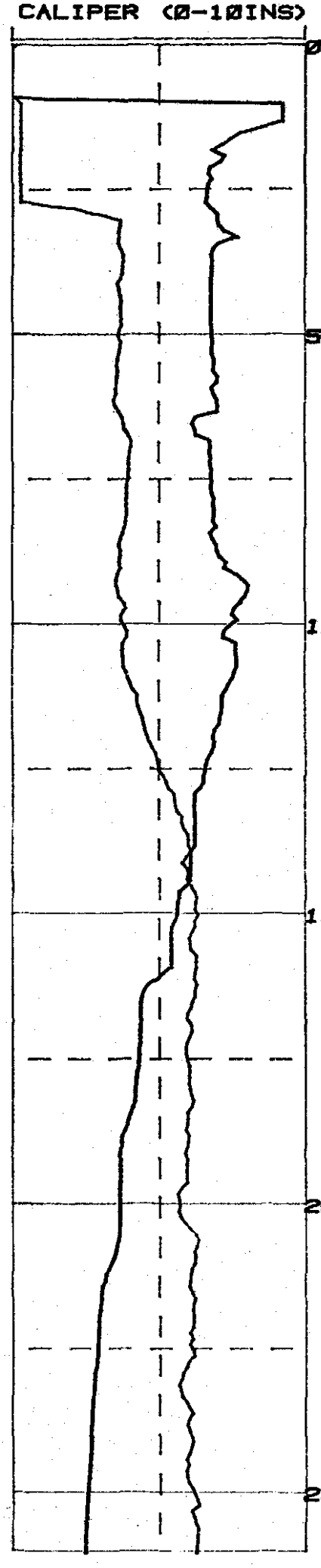
GAMMA (0-50 CPS)

L.S. DENSITY (1000-0 CPS)

RES (20-120 OHMS)

CALIPER (0-10INS)





MURDOCH GEOPHYSICS Corrected playback LOG: R008

028

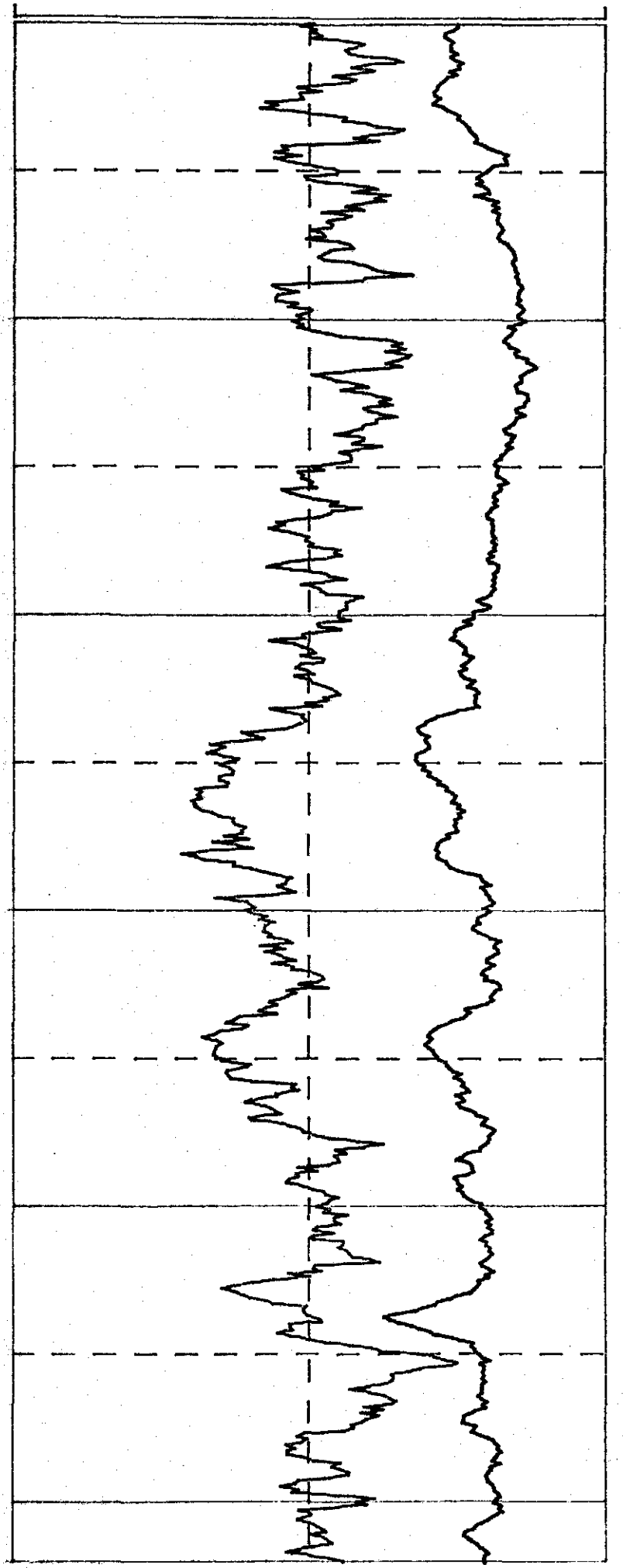
771347 BOREHOLE NO. R008

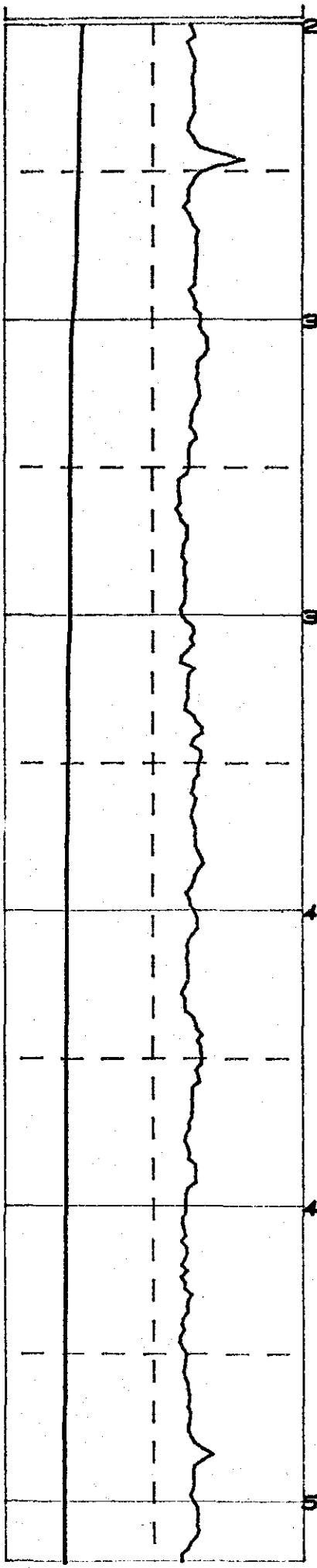
GAMMA (0-50 CPS)

L.S. DENSITY (1000-0 CPS)

RES (20-120 OHMS)

CALIPER (0-10INS)





MURDOCH GEOPHYSICS Corrected playback: LOG: R008

PAGE NO. 2

029

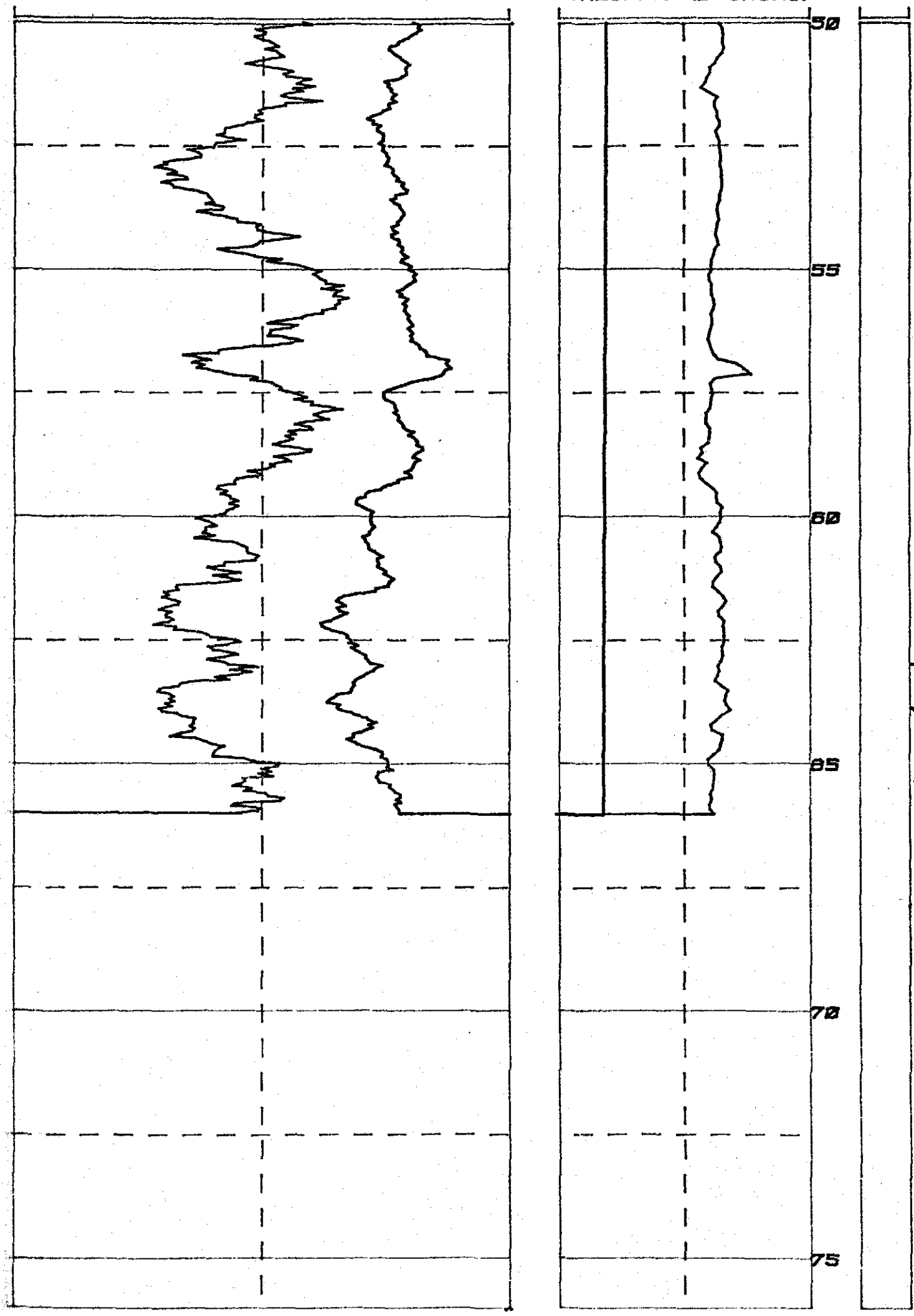
771348 BOREHOLE NO. R008

GAMMA (0-50 CPS)

L.S. DENSITY (1000-0 CPS)

RES (20-120 OHMS)

CALIPER (0-10INS)



MURDOCH GEOPHYSICS Corrected playback LOG: R008 PAGE NO. 3

030 771349

BOREHOLE: R009

CLIENT: C.S.R.

LOCATION: Westbury. Tasmania.

DATE LOGGED: 22-10-81 BY D. DOUGHERTY



EQUIPMENT DATA

LOG	Tape No./File	Recording Speed (m/min)	T.C. Sec.	Source	Borehole Position	Depth Logged
Resistivity (PR)		6	—	—	Free	0 m TO 58 m
Self Potential	—	—	—	—	Free	TO —
Nat. Gamma (γ)		6	2	—	Free	1m TO 58 m
γ-γ Density		6	1	Cs137	Sidewall	1m TO 58 m
Neutron		—	1	—	Sidewall	— TO —
Caliper		6	—	—	3-Arm	1m TO 58 m

BOREHOLE DATA

Date Drilled: 22-10-81. Tot. Depth Drilled (Driller): .....

Permanent Datum: G.L. Elevation of P.D.: .....

Casing: Type: ..... Depth: .....

Bit Sizes: 1..... From .....to .....
2..... From .....to .....

FLUID DATA: Nature: ..... SG.: .....

Viscosity: ..... Level: 1.1 metres

031

771350

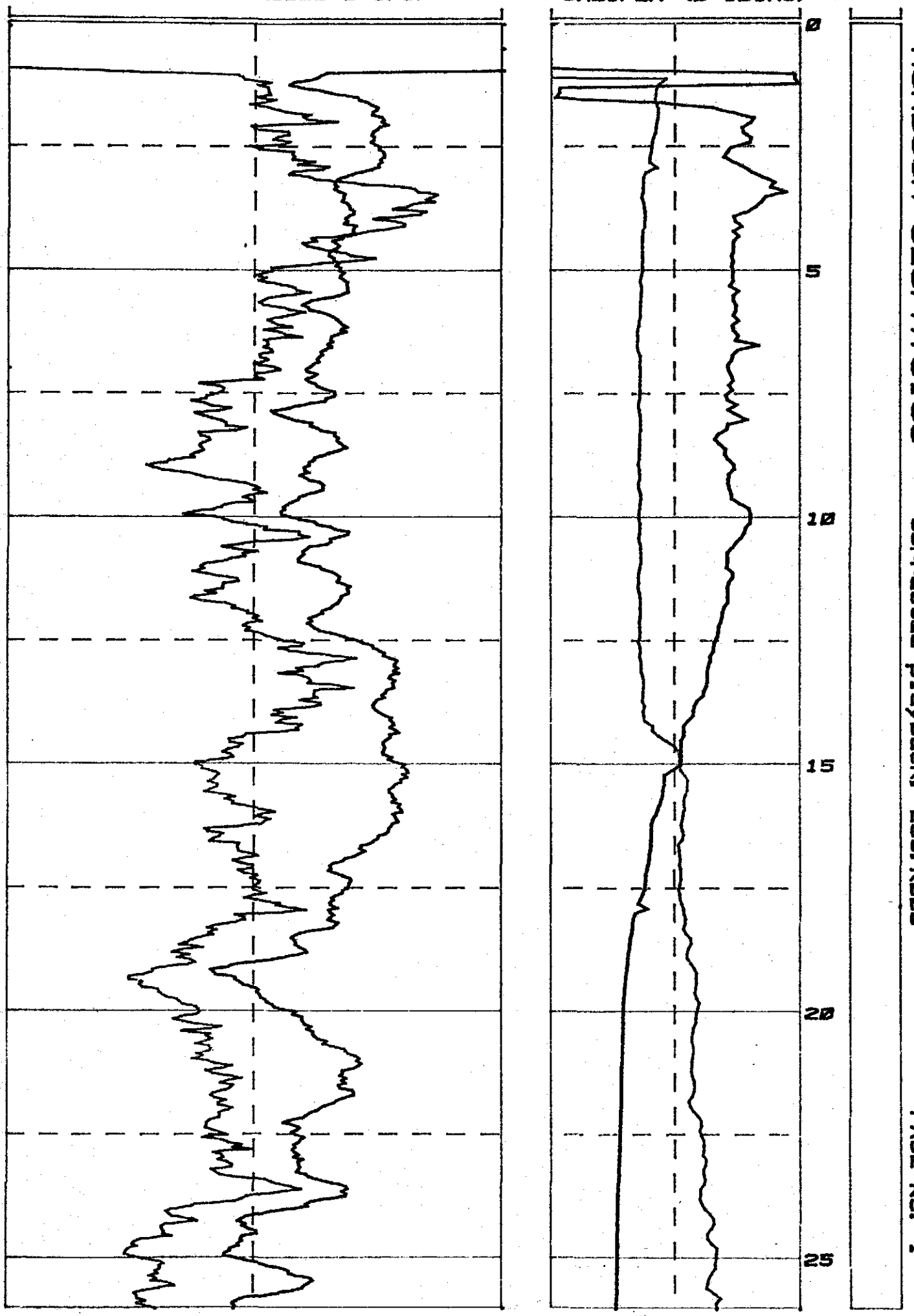
BOREHOLE NO. R009

GAMMA (0-50 CPS)

L.S. DENSITY (1000-0 CPS)

RES (20-120 OHMS)

CALIPER (0-10INS)



MURDOCH GEOPHYSICS

Corrected playback: LOG: R009

PAGE NO. 1

032

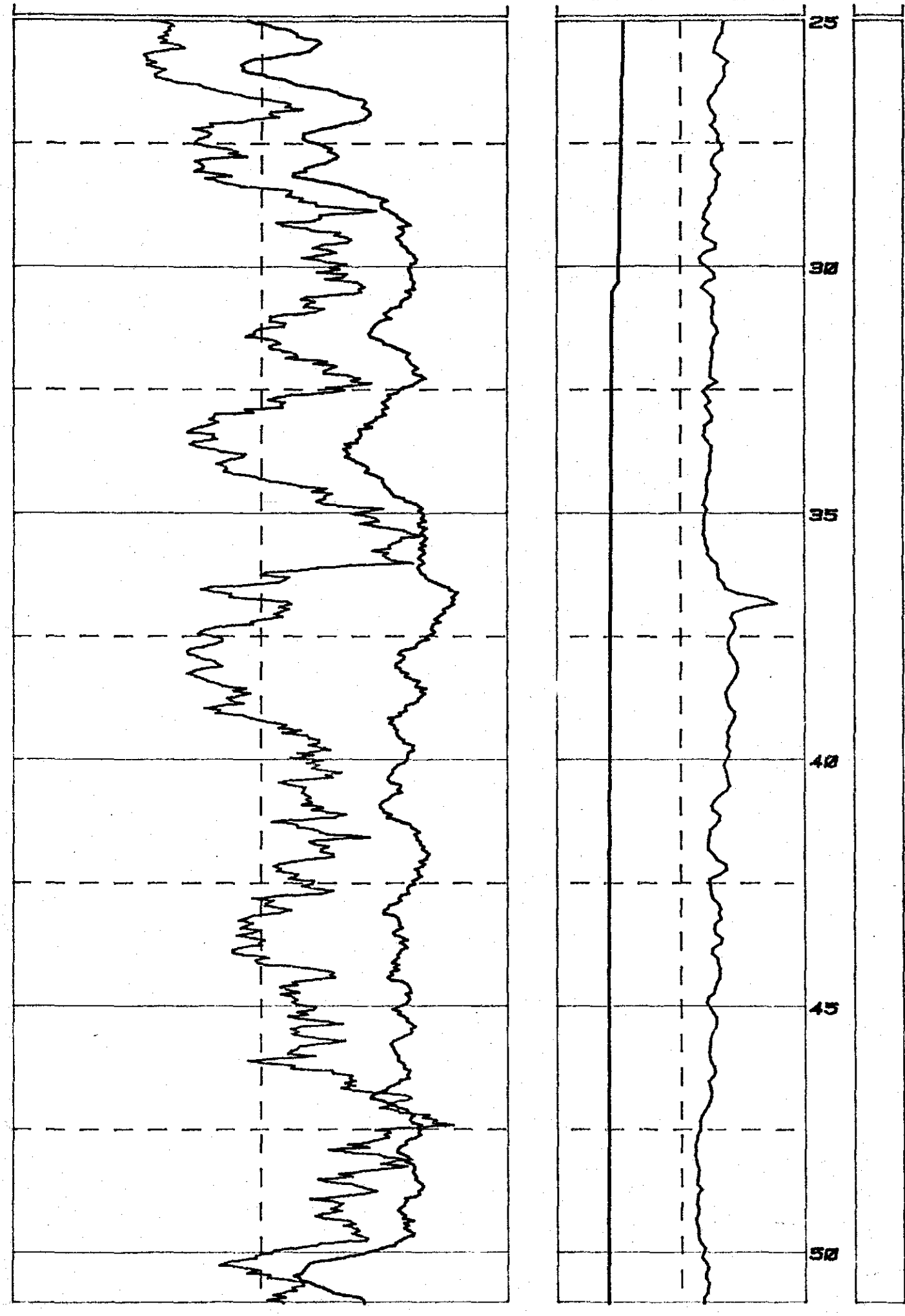
771351 BOREHOLE NO. R009

GAMMA (0-50 CPS)

L.S. DENSITY (1000-0 CPS)

RES (20-120 OHMS)

CALIPER (0-10INS)



MURDOCH GEOPHYSICS Corrected playback: LOG: R008

PAGE NO. 2

033

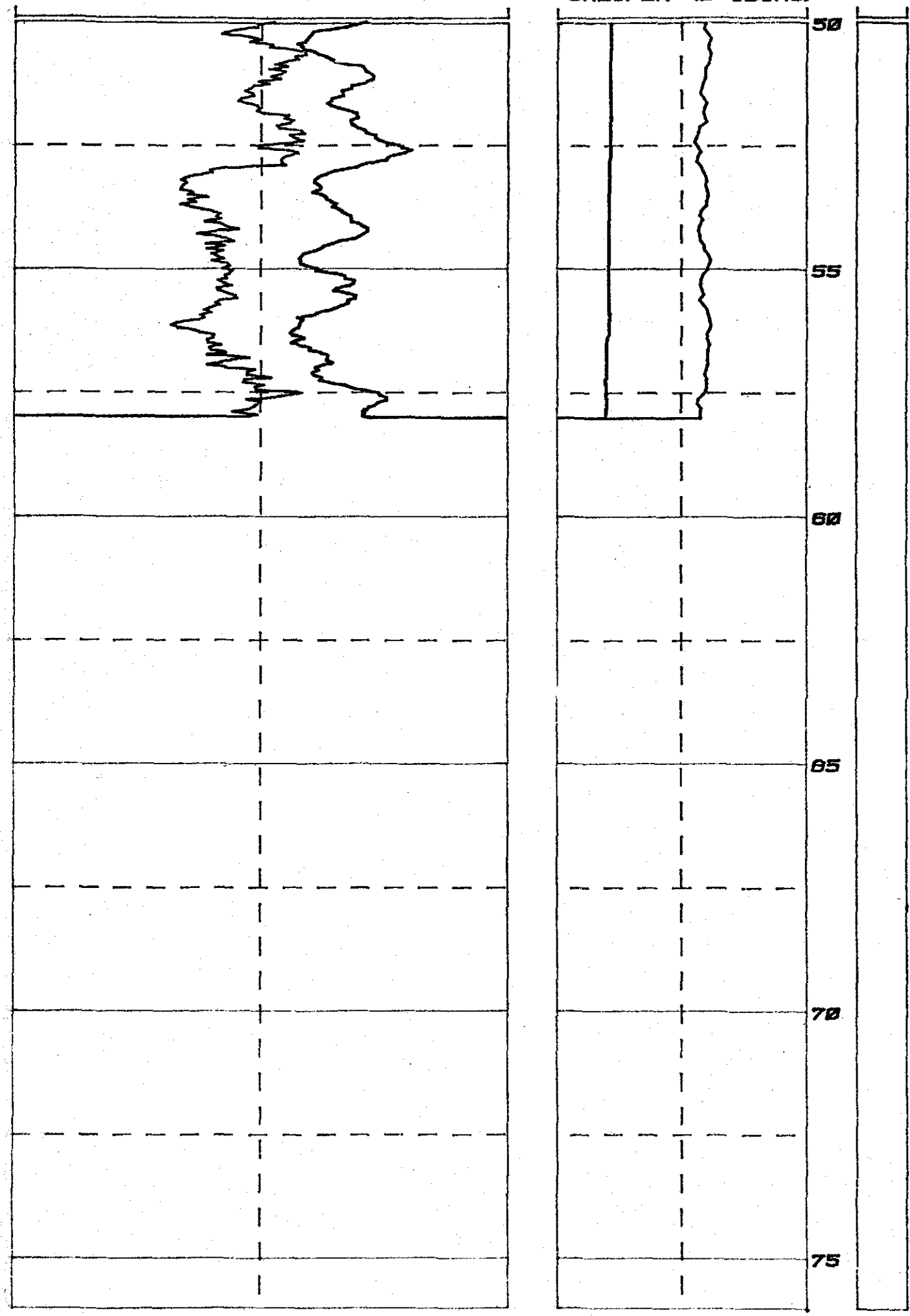
771352 BOREHOLE NO. R009

GAMMA (0-50 CPS)

L.S. DENSITY (1000-0 CPS)

RES (20-120 OHMS)

CALIPER (0-10INS)



MURDOCH GEOPHYSICS Corrected playback: LOG: R009 PAGE NO. 3

034 771353

BOREHOLE: R010

CLIENT: C.S.R.

LOCATION: Westbury. Tasmania.

DATE LOGGED: 23-10-81 BY D. DOUGHERTY



EQUIPMENT DATA

LOG	Tape No./File	Recording Speed (m/min)	T.C. Sec.	Source	Borehole Position	Depth Logged
Resistivity (PR)		6	—	—	Free	0 m TO 9 m
Self Potential	—	—	—	—	Free	— TO —
Nat. Gamma (γ)		6	2	—	Free	1m TO 26m
γ-γ Density		6	1	Cs137	Sidewall	1m TO — m
Neutron		—	1	—	Sidewall	— TO —
Caliper		6	—	—	3-Arm	1m TO — m

BOREHOLE DATA

Date Drilled: 23-10-81 Tot. Depth Drilled (Driller): .....

Permanent Datum: G.L. Elevation of P.D.: .....

Casing: Type: ..... Depth: .....

Bit Sizes: 1 ..... From ..... to .....
2 ..... From ..... to .....

FLUID DATA: Nature: ..... S.G.: .....

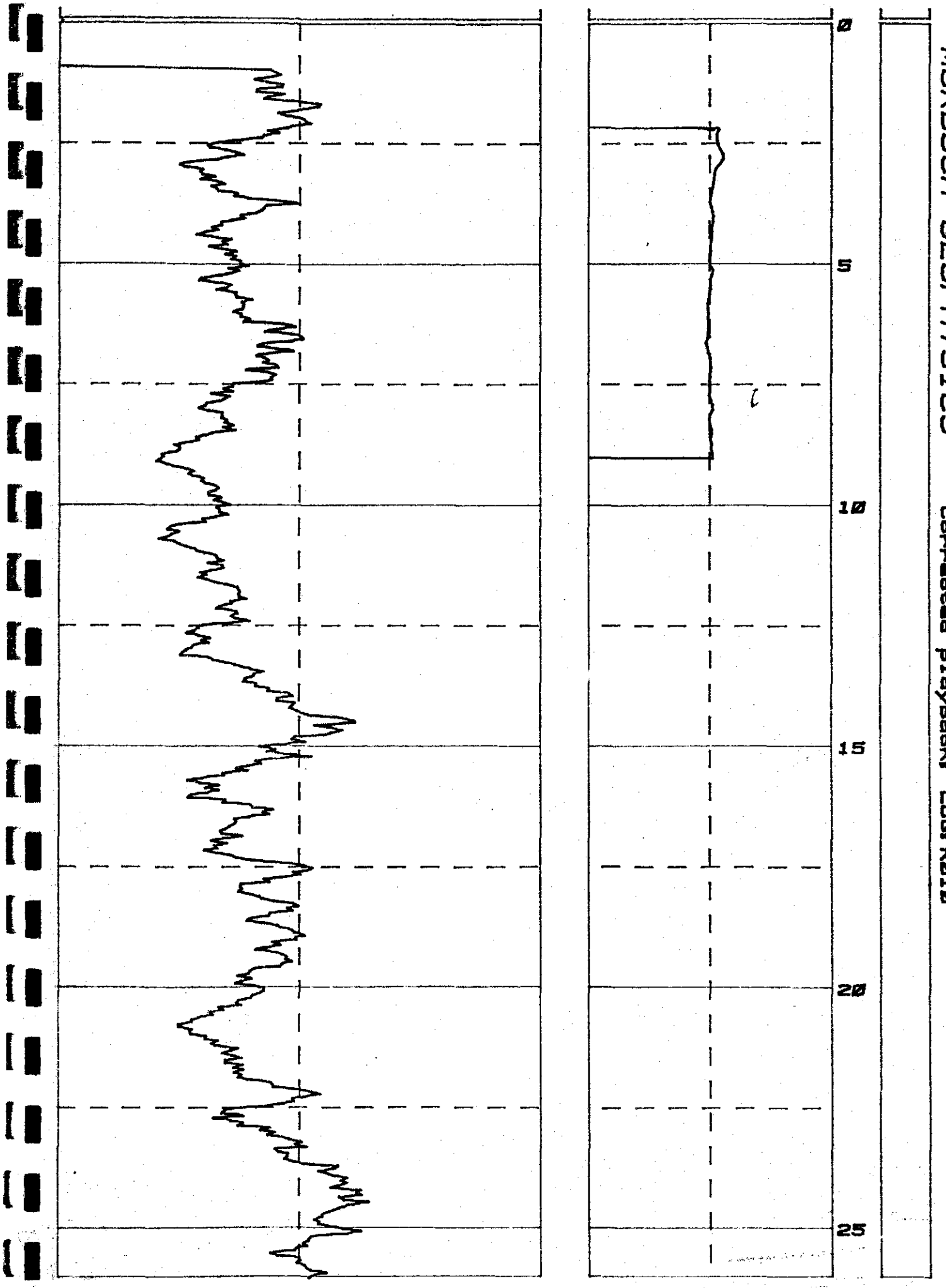
Viscosity: ..... Level: 2.1 metres

035

771354 BOREHOLE NO: R010

GAMMA (0-50 CPS)

RES (0-500 OHMS)



MURDOCH GEOPHYSICS Corrected playback: LOG: R010

036

771355

BOREHOLE : R011

CLIENT : C.S.R.

LOCATION: Westbury. Tasmania.

DATE LOGGED: 28-10-81 BY D. DOUGHERTY



EQUIPMENT DATA

LOG	Tape No./File	Recording Speed (m/min)	T.C. Sec.	Source	Borehole Position	Depth Logged
Resistivity (PR)		6	—	—	Free	0 m TO 26 m
Self Potential	—	—	—	—	Free	TO —
Nat. Gamma (γ)		6	2	—	Free	1m TO 26 m
γ-γ Density		6	1	Cs137	Sidewall	1m TO 26 m
Neutron		—	1	—	Sidewall	— TO —
Caliper		6	—	—	3-Arm	1m TO 26 m

BOREHOLE DATA

Date Drilled: 28-10-81 Tot. Depth Drilled (Driller): .....

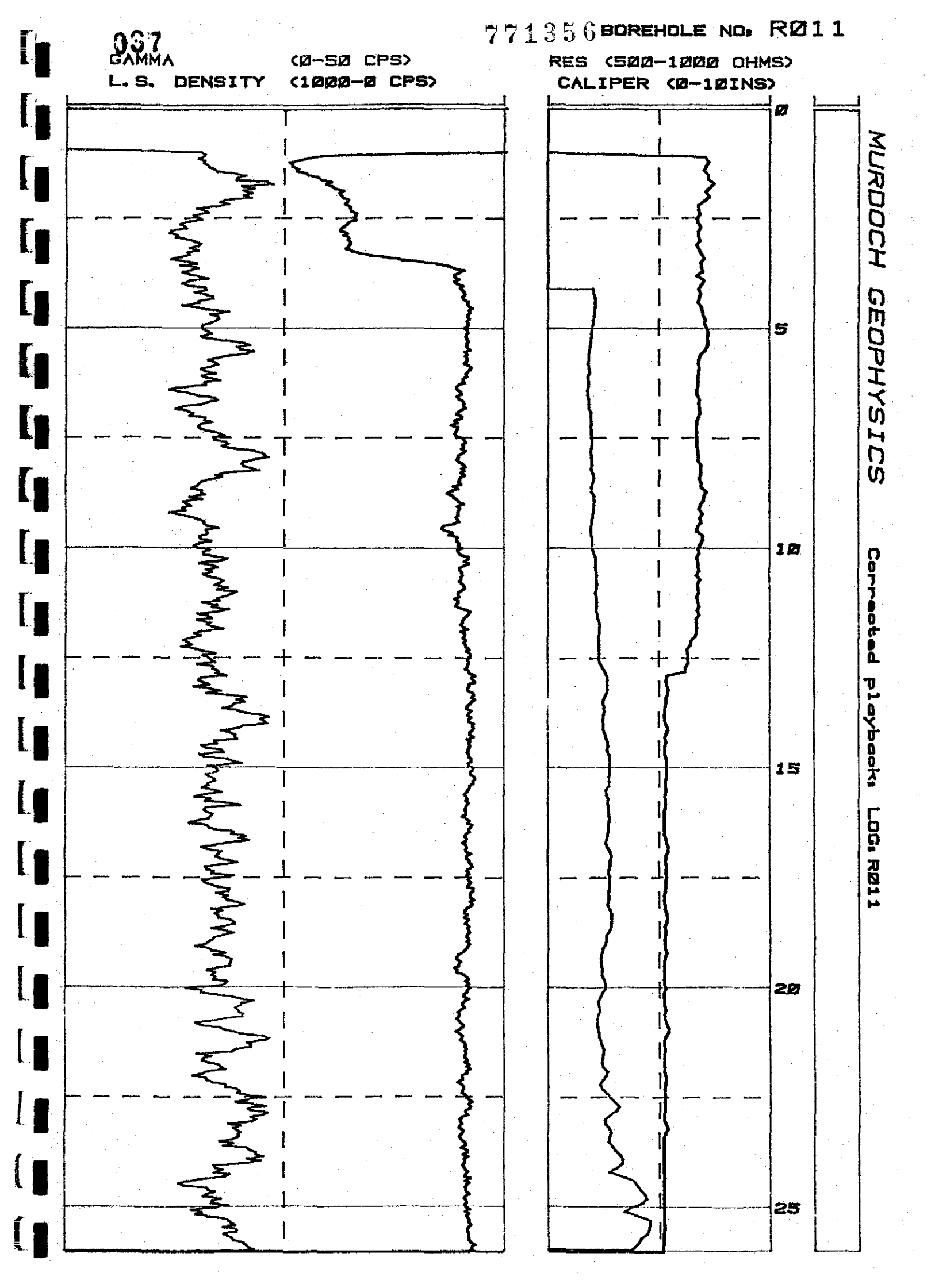
Permanent Datum: G.L. Elevation of P.D.: .....

Casing: Type: ..... Depth: .....

Bit Sizes: 1 ..... From ..... to .....
2 ..... From ..... to .....

FLUID DATA: Nature: ..... SG.: .....

Viscosity: ..... Level: 4.1 metres


037
GAMMA (0-50 CPS)
L.S. DENSITY (1000-0 CPS)
771356 BOREHOLE NO. R011
RES (500-1000 OHMS)
CALIPER (0-10INS)
0
5
10
15
20
25
MURDOCH GEOPHYSICS
Corrected playback: LOG: R011

038

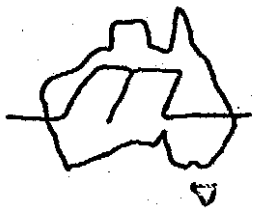
771357

BOREHOLE: R012

CLIENT: C.S.R.

LOCATION: Westbury. Tasmania.

DATE LOGGED: 28-10-81 BY D. DOUGHERTY



EQUIPMENT DATA

LOG	Tape No./File	Recording Speed (m/min)	T.C. Sec.	Source	Borehole Position	Depth Logged
Resistivity (PR)		6	—	—	Free	0 m TO 47 m
Self Potential	—	—	—	—	Free	TO —
Nat. Gamma (γ)		6	2	—	Free	1m TO 47 m
γ-γ Density		6	1	Cs137	Sidewall	1m TO 47 m
Neutron		—	1	—	Sidewall	— TO —
Caliper		6	—	—	3-Arm	1m TO 47 m

BOREHOLE DATA

Date Drilled: 28-10-81 Tot. Depth Drilled (Driller): .....

Permanent Datum: G.L. Elevation of P.D.: .....

Casing: Type: ..... Depth: .....

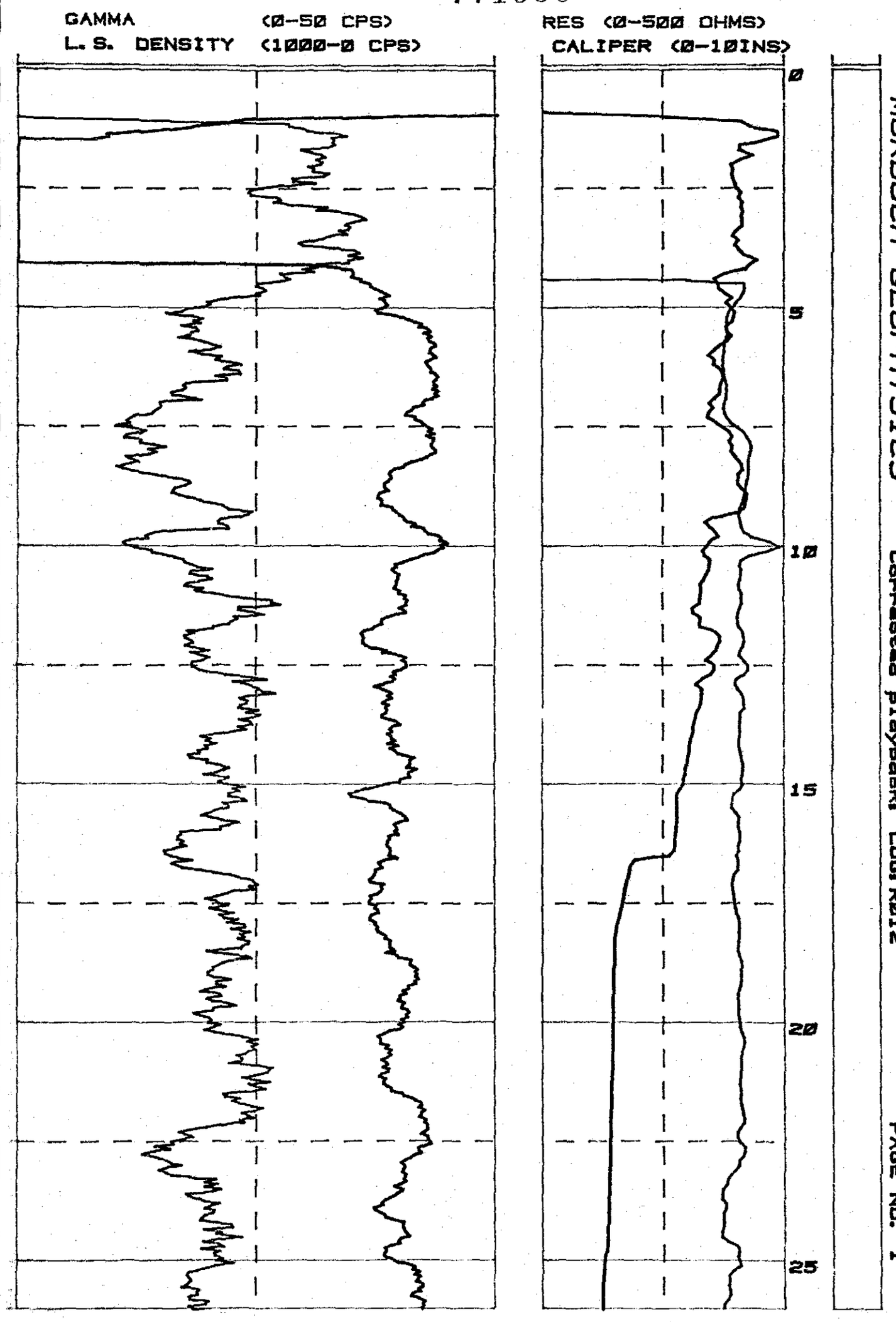
Bit Sizes: 1 ..... From ..... to .....
2 ..... From ..... to .....

FLUID DATA: Nature: ..... SG.: .....

Viscosity: ..... Level: 4.4 metres

039

771358 BOREHOLE NO. R012



040

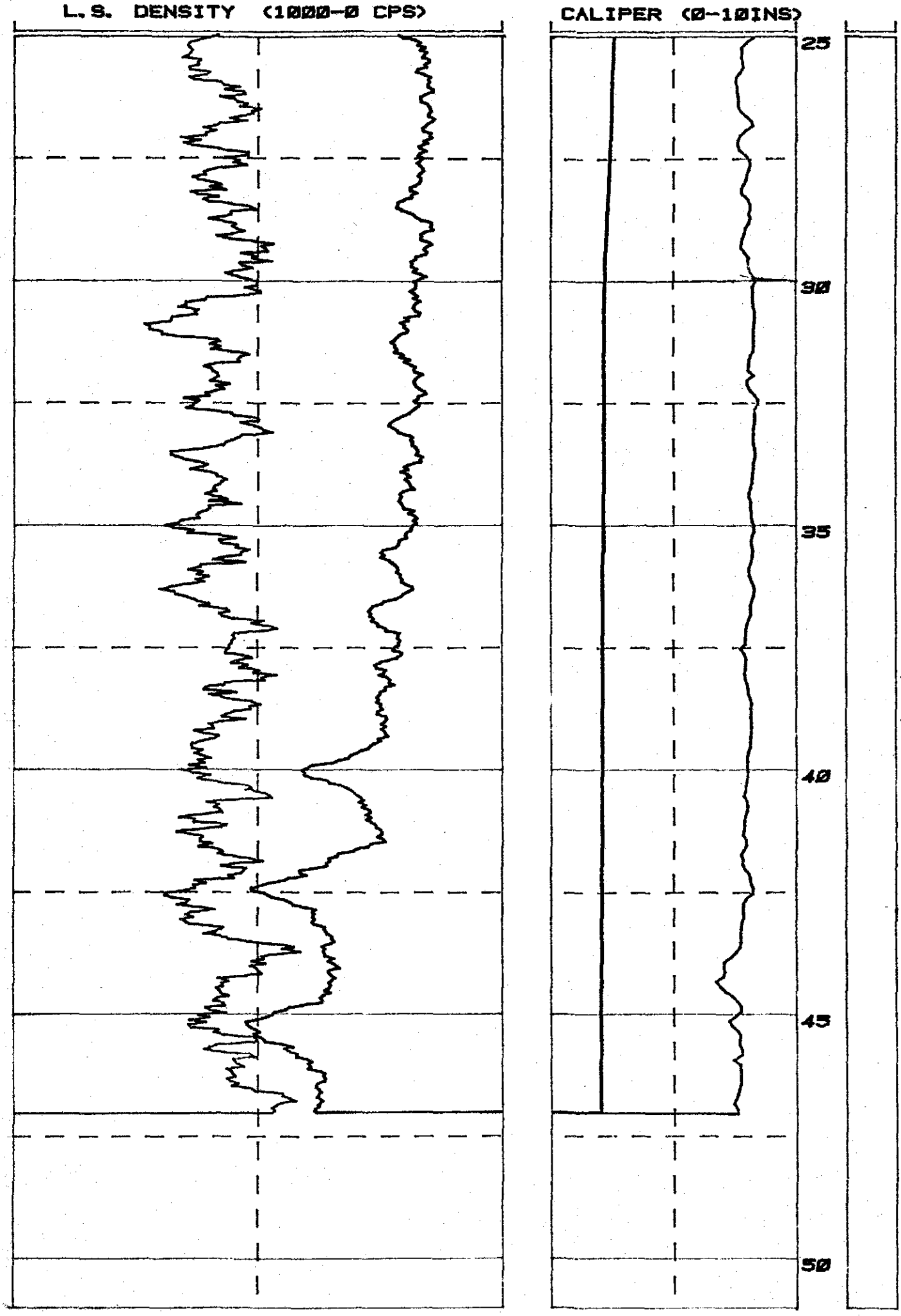
771359 BOREHOLE NO. R012

GAMMA (0-50 CPS)

L.S. DENSITY (1000-0 CPS)

RES (0-500 OHMS)

CALIPER (0-10INS)



MURDOCH GEOPHYSICS Corrected playback: LOG: R012

PAGE NO. 2

041 771360

BOREHOLE : R013

CLIENT : C.S.R.

LOCATION: Westbury. Tasmania.

DATE LOGGED: 30-10-81 BY D. DOUGHERTY



EQUIPMENT DATA

LOG	Tape No./File	Recording Speed (m/min)	T.C. Sec.	Source	Borehole Position	Depth Logged
Resistivity (PR)		6	—	—	Free	0 m TO 64m
Self Potential	—	—	—	—	Free	TO —
Nat. Gamma (γ)		6	2	—	Free	1m TO 76m
γ-γ Density		6	1	Cs137	Sidewall	1m TO 64m
Neutron		—	1	—	Sidewall	— TO —
Caliper		6	—	—	3-Arm	1m TO 64 m

BOREHOLE DATA

Date Drilled: 30-10-81 Tot. Depth Drilled (Driller): .....

Permanent Datum: G.L. Elevation of P.D.: .....

Casing: Type: ..... Depth: .....

Bit Sizes: 1 ..... From ..... to .....
2 ..... From ..... to .....

FLUID DATA: Nature: ..... SG.: .....

Viscosity: ..... Level: 4 metres

942

771361

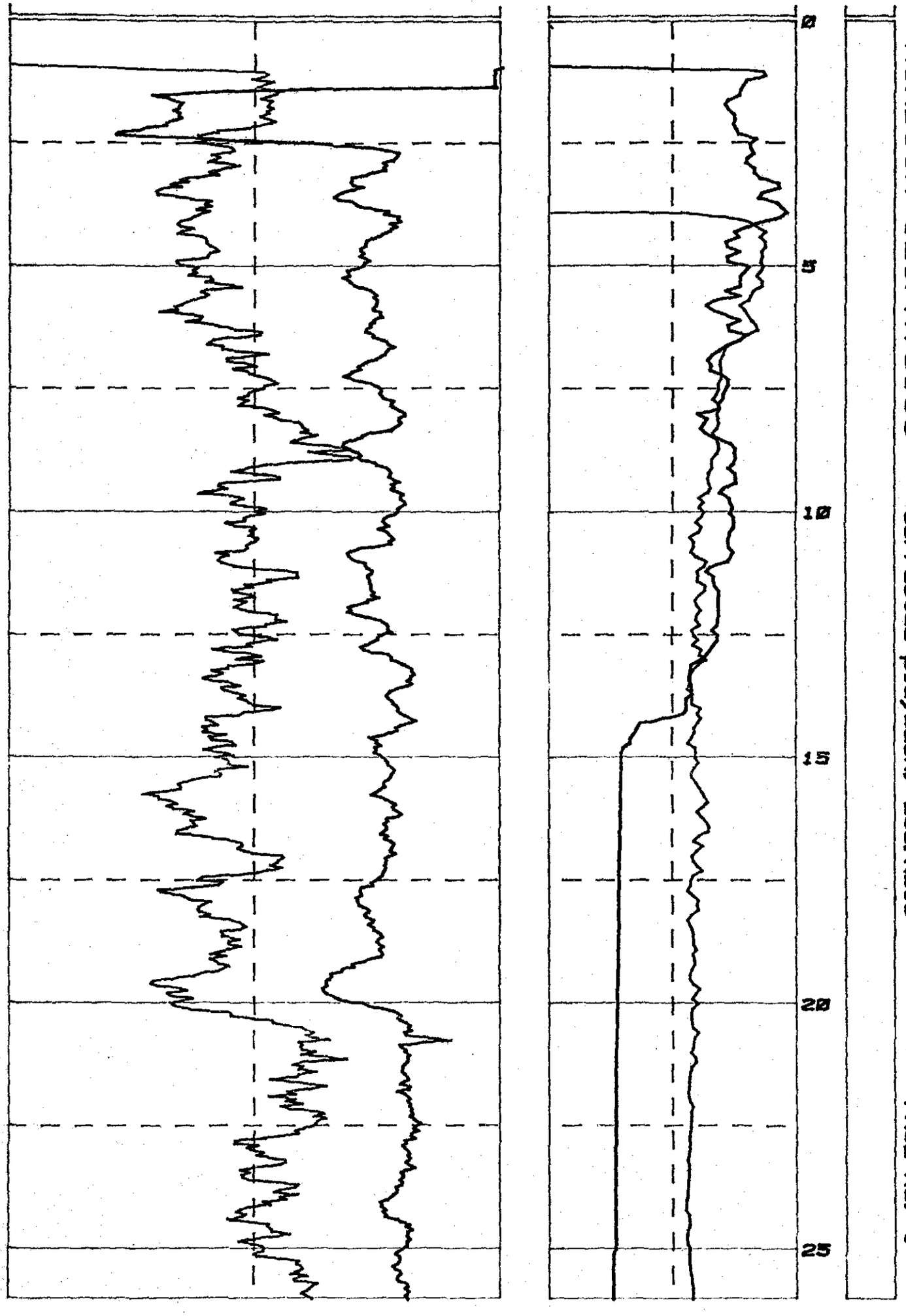
BOREHOLE NO. RL..=

GAMMA (0-25 CPS)

L.S. DENSITY (1000-0 CPS)

RES (250-500 OHMS)

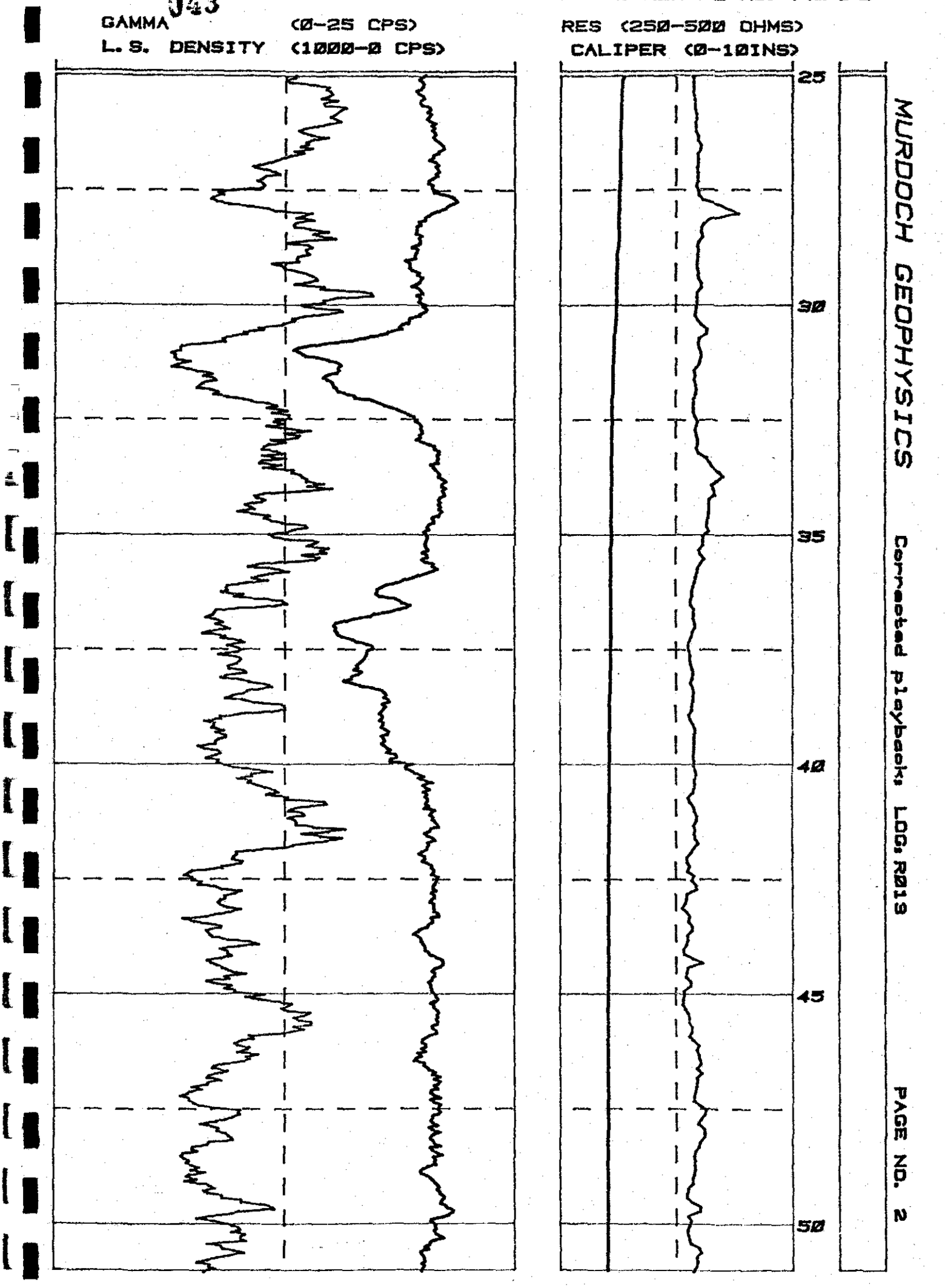
CALIPER (0-10INS)



MURDOCH GEOPHYSICS Corrected playback LOG: R013

PAGE NO. 1

771362 BOREHOLE NO. RØ13

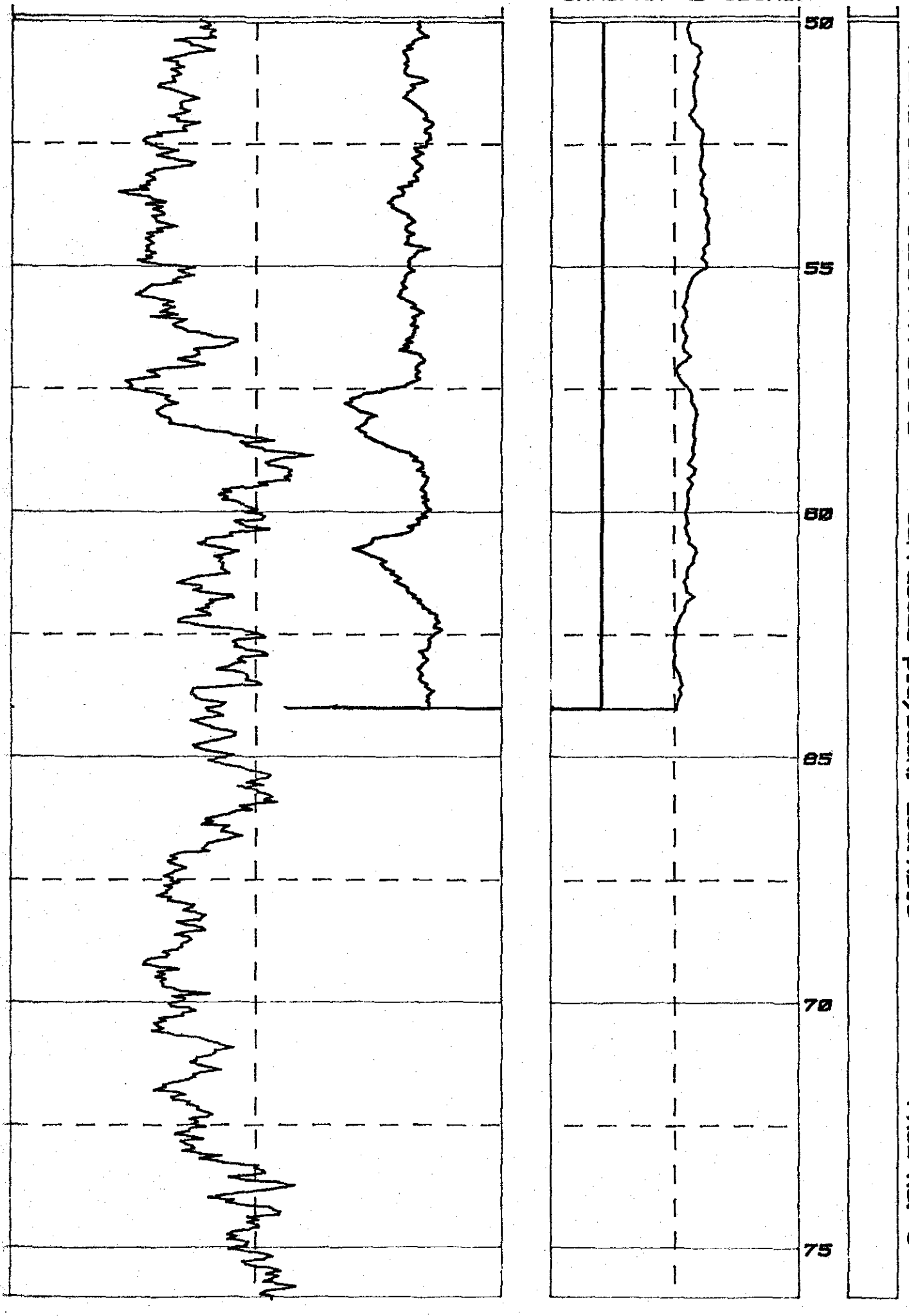


044

BOREHOLE NO. R013

GAMMA (0-25 CPS) 771363 RES (250-500 OHMS)

L.S. DENSITY (1000-0 CPS) CALIPER (0-10INS)



MURDOCH GEOPHYSICS Corrected Playback LOG: R013

PAGE NO. 3

045

771364

BOREHOLE : R014

CLIENT : C.S.R.

LOCATION: Westbury. Tasmania.

DATE LOGGED: 30-10-81 BY D. DOUGHERTY

EQUIPMENT DATA

LOG	Tape No./File	Recording Speed (m/min)	T.C. Sec.	Source	Borehole Position	Depth Logged
Resistivity (PR)		6	—	—	Free	0 m TO 78 m
Self Potential	—	—	—	—	Free	TO —
Nat. Gamma (γ)		6	2	—	Free	1m TO 78 m
γ-γ Density		6	1	Cs137	Sidewall	1m TO 78 m
Neutron		—	1	—	Sidewall	— TO —
Caliper		6	—	—	3-Arm	1m TO 78 m

BOREHOLE DATA

Date Drilled: 30-10-81 Tot. Depth Drilled (Driller): .....

Permanent Datum: G.L. Elevation of P.D.: .....

Casing: Type: ..... Depth: .....

Bit Sizes: 1 ..... From ..... to .....
2 ..... From ..... to .....

FLUID DATA: Nature: ..... S.G.: .....

Viscosity: ..... Level: 5.3 metres

046

771365

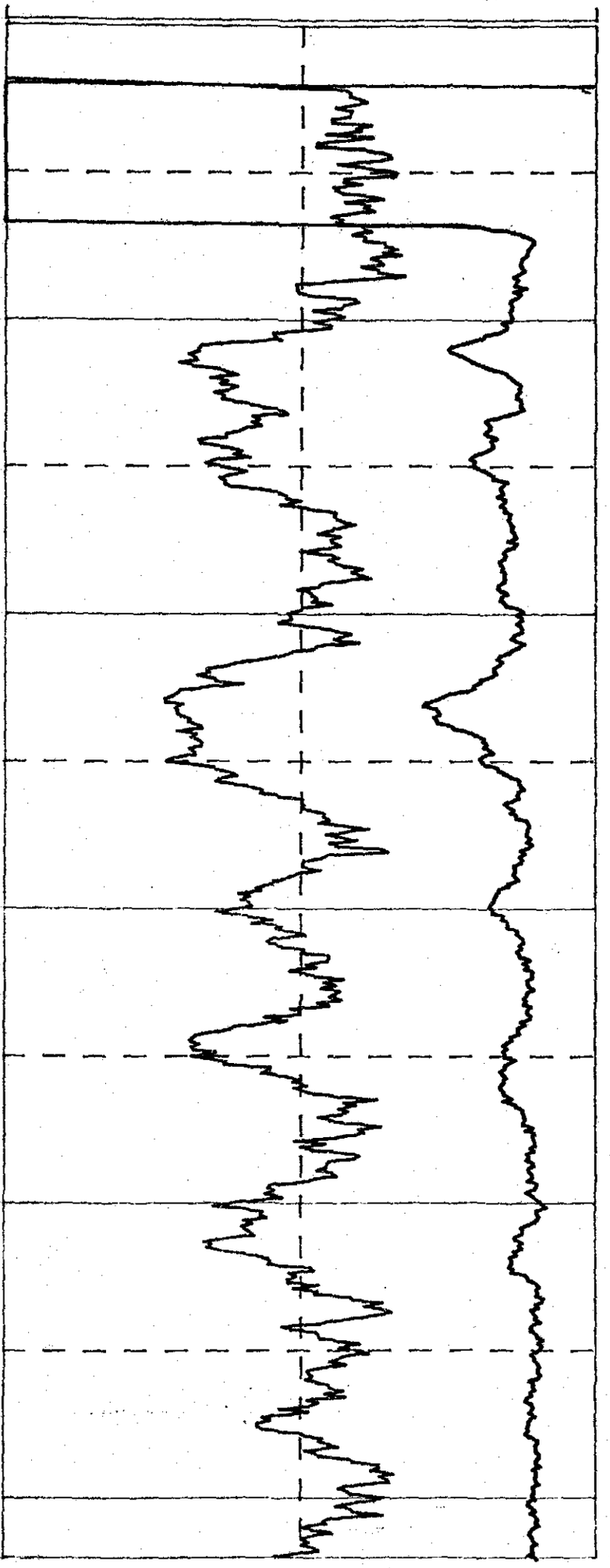
BOREHOLE NO. RØ14

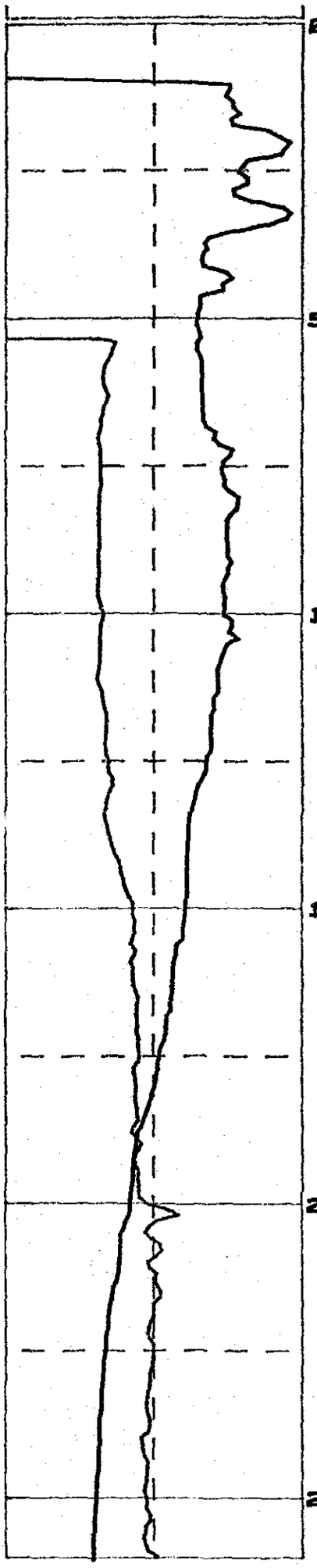
GAMMA (Ø-5Ø CPS)

L.S. DENSITY (1ØØØ-Ø CPS)

RES (1ØØ-35Ø OHMS)

CALIPER (Ø-1ØINS)





MURDOCH GEOPHYSICS Corrected playback LOG: RØ14

PAGE NO. 1

047

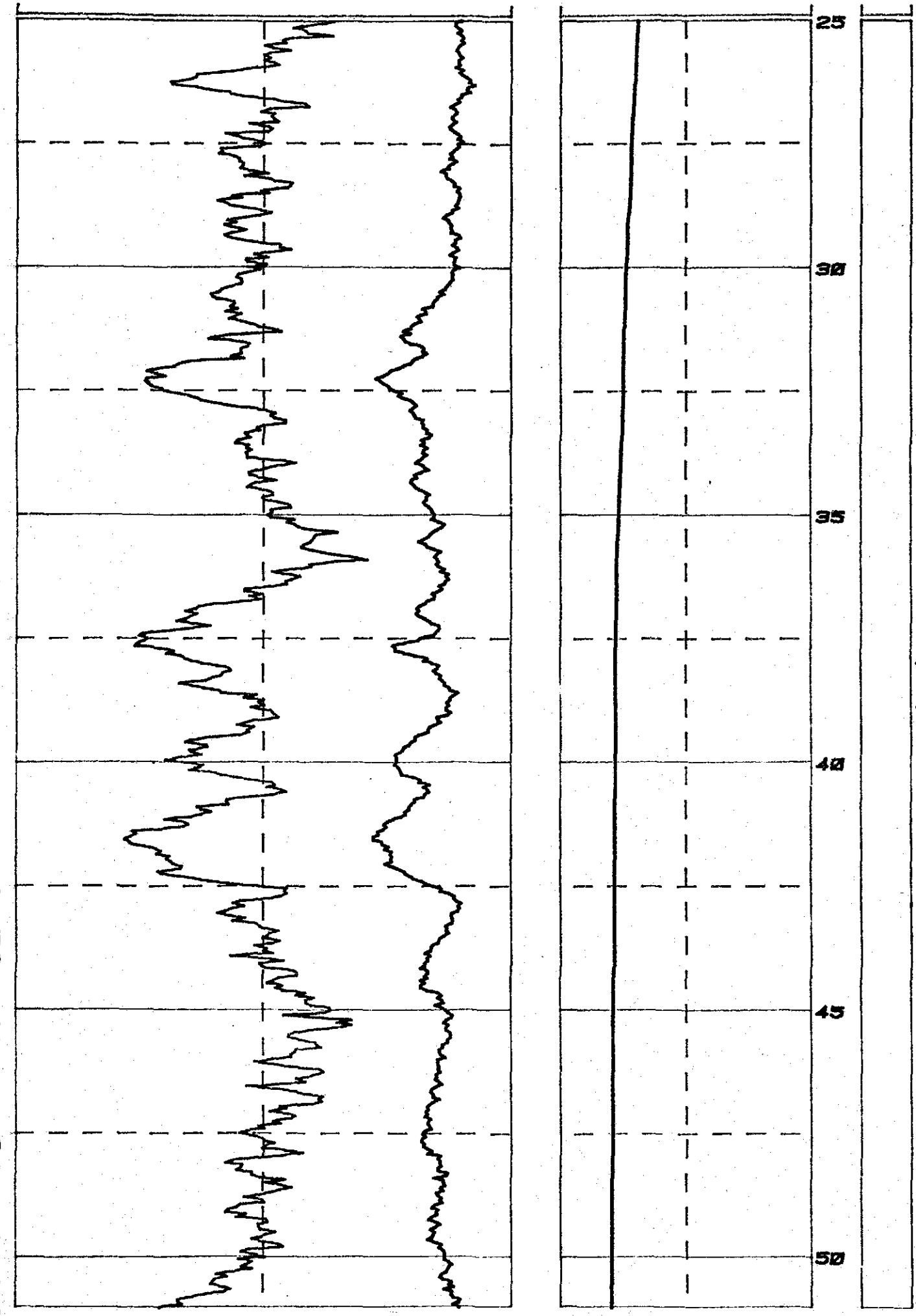
771366 BOREHOLE NO: R014

GAMMA (0-50 CPS)

L.S. DENSITY (1000-0 CPS)

RES (100-350 OHMS)

CALIPER (0-10INS)



MURDOCH GEOPHYSICS Corrected playback: LOG: R014 PAGE NO. 2

048

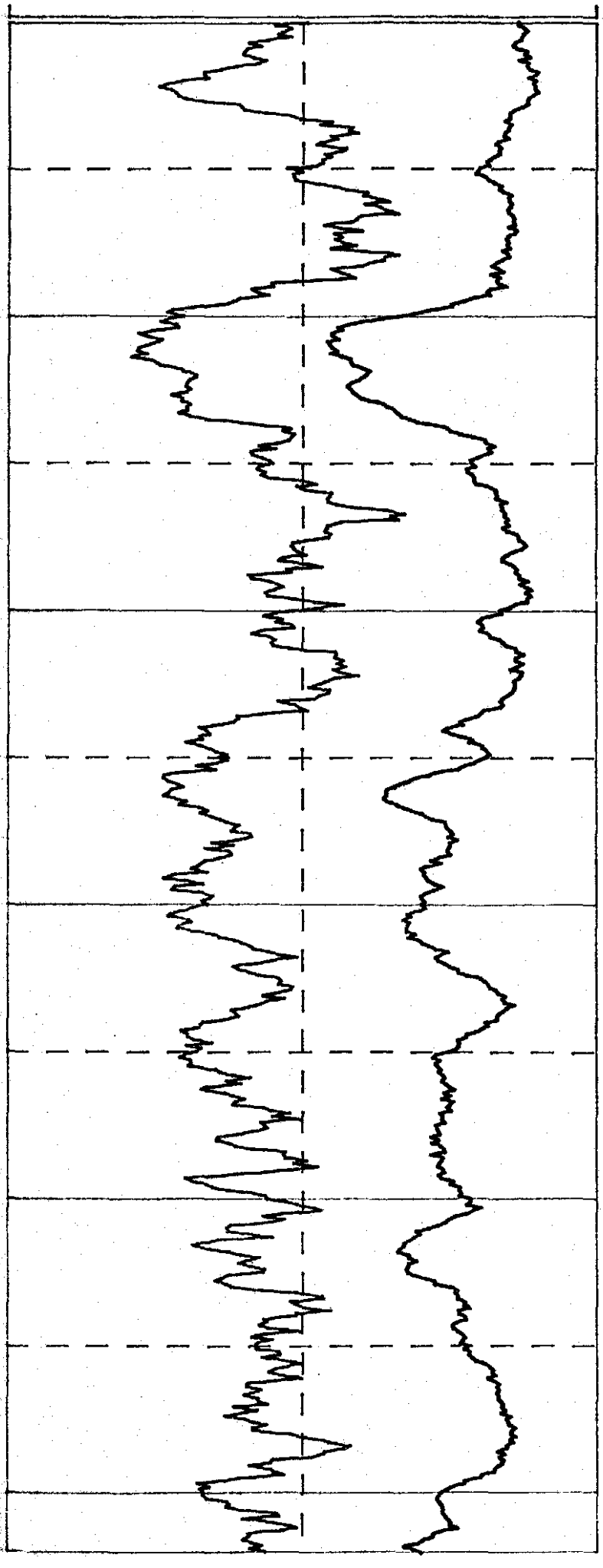
771367 BOREHOLE NO. RØ14

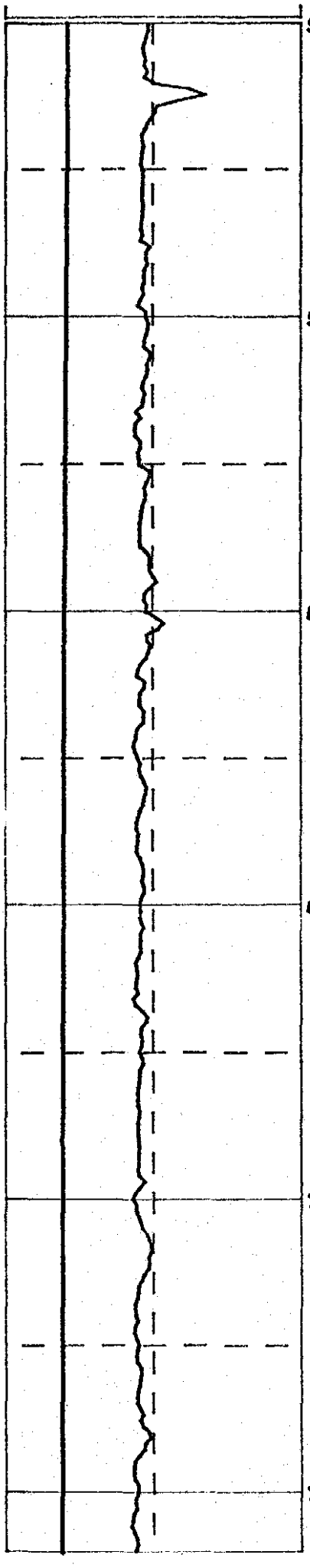
GAMMA (Ø-5Ø CPS)

L.S. DENSITY (1ØØØ-Ø CPS)

RES (1ØØ-35Ø OHMS)

CALIPER (Ø-1ØINS)





50

55

60

65

70

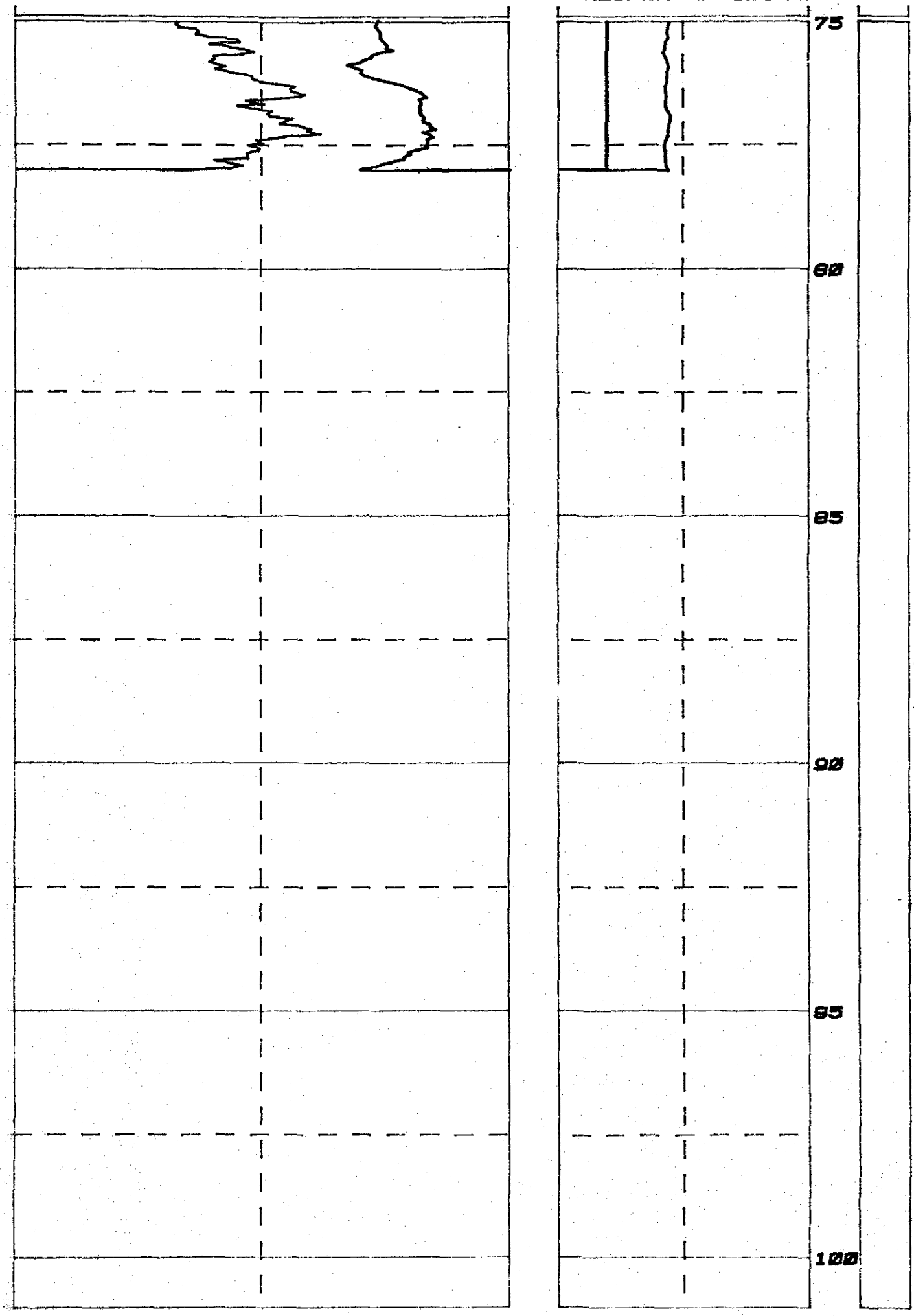
75

MURDOCH GEOPHYSICS Corrected playback LOG: RØ14 PAGE NO. 3

049 771368 BOREHOLE NO. R014

GAMMA (0-50 CPS)
L.S. DENSITY (1000-0 CPS)

RES (100-350 OHMS)
CALIPER (0-10INS)



MURDOCH GEOPHYSICS Corrected Playback LOG: R014 PAGE NO. 4

771369

050
BOREHOLE: R015



CLIENT: C.S.R.

LOCATION: Westbury. Tasmania.

DATE LOGGED: 31-10-81 BY D. DOUGHERTY

EQUIPMENT DATA

LOG	Tape No./File	Recording Speed (m/min)	T.C. Sec.	Source	Borehole Position	Depth Logged
Resistivity (PR)		6	—	—	Free	0 m TO 51 m
Self Potential	—	—	—	—	Free	TO —
Nat. Gamma (γ)		6	2	—	Free	— 1m TO — m
γ-γ Density		6	1	Cs137	Sidewall	1m TO 51 m
Neutron		—	1	—	Sidewall	— TO —
Caliper		6	—	—	3-Arm	1m TO 51 m

BOREHOLE DATA

Date Drilled: 31-10-81 Tot. Depth Drilled (Driller): .....

Permanent Datum: G.L. Elevation of P.D.: .....

Casing: Type: ..... Depth: .....

Bit Sizes: 1 ..... From ..... to .....
2 ..... From ..... to .....

FLUID DATA: Nature: ..... SG.: .....

Viscosity: ..... Level: 3.9 metres

951

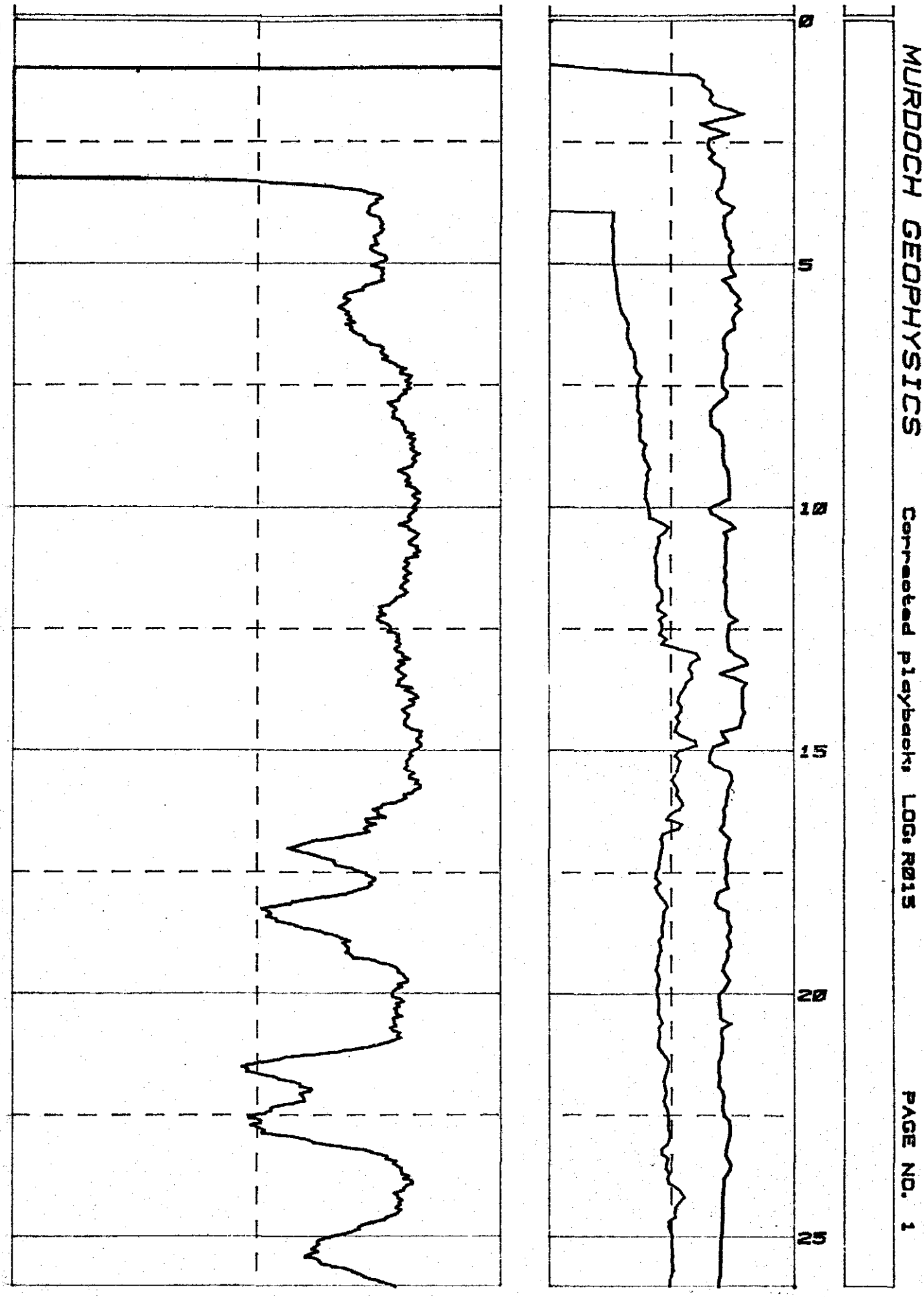
771370

BOREHOLE NO. R015

L. S. DENSITY (1000-0 CPS)

RES (0-250 OHMS)

CALIPER (0-10INS)



MURDOCH GEOPHYSICS Corrected Playback LOG: R015 PAGE NO. 1

052

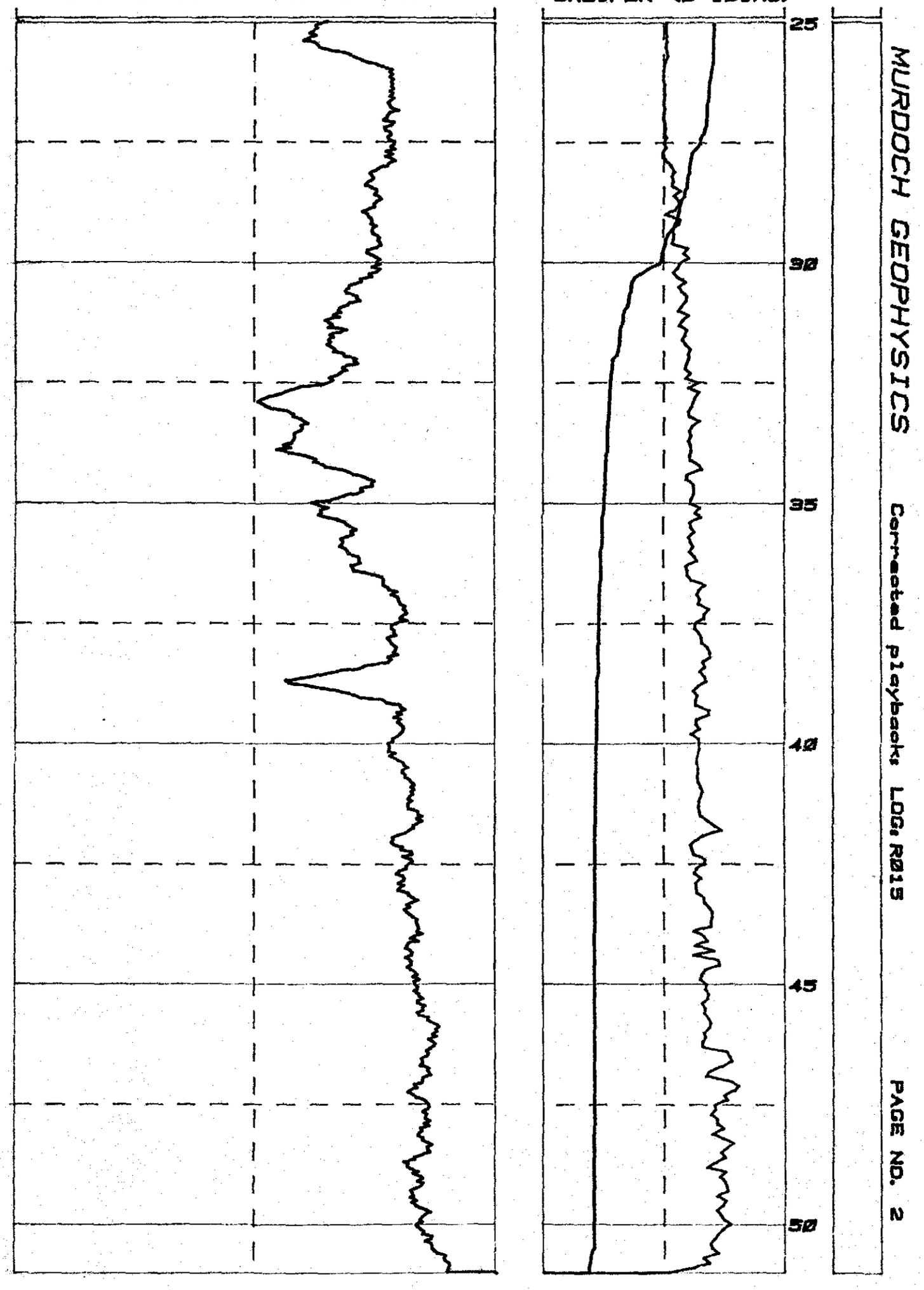
771371

BOREHOLE NO. R015

L.S. DENSITY (1000-0 CPS)

RES (0-250 OHMS)

CALIPER (0-10INS)



MURDOCH GEOPHYSICS Corrected Playback LOG: R015 PAGE NO. 2

771372

053

BOREHOLE: R016

CLIENT: C.S.R.

LOCATION: Westbury. Tasmania.

DATE LOGGED: 2-11-81 BY D. DOUGHERTY



EQUIPMENT DATA

LOG	Tape No./File	Recording Speed (m/min)	T.C. Sec.	Source	Borehole Position	Depth Logged
Resistivity (PR)		6	—	—	Free	0 m TO 63 m
Self Potential	—	—	—	—	Free	TO —
Nat. Gamma (γ)		6	2	—	Free	1m TO 63m
γ-γ Density		6	1	Cs137	Sidewall	1m TO 63 m
Neutron		—	1	—	Sidewall	— TO —
Caliper		6	—	—	3-Arm	1m TO 63 m

BOREHOLE DATA

Date Drilled: 2-11-81 Tot. Depth Drilled (Driller): .....

Permanent Datum: G.L. Elevation of P.D.: .....

Casing: Type: ..... Depth: .....

Bit Sizes: 1 ..... From ..... to .....
2 ..... From ..... to .....

FLUID DATA: Nature: ..... S.G.: .....

Viscosity: ..... Level: 0.9 metre

054

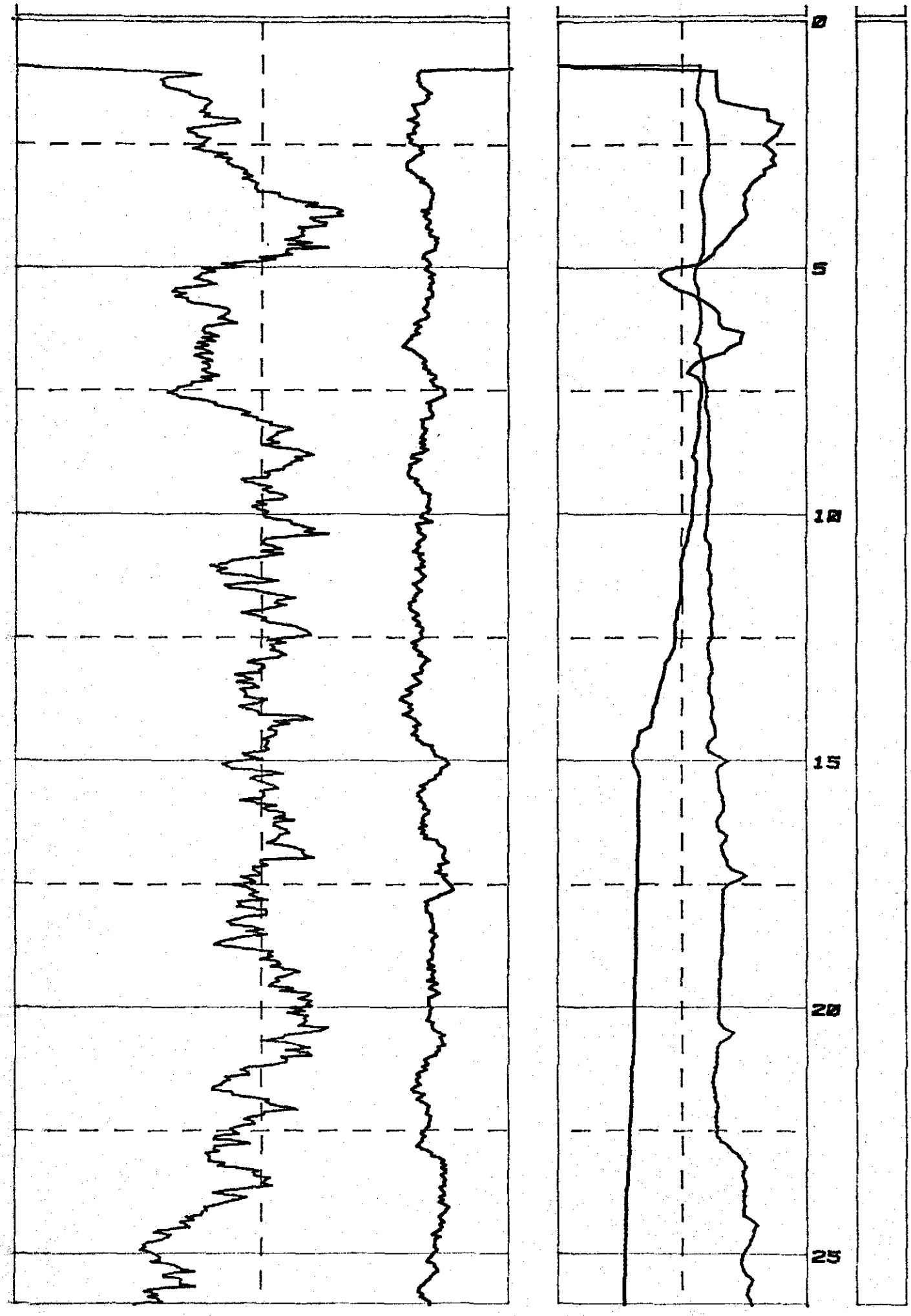
771373 BOREHOLE NO. R016

GAMMA (0-25 CPS)

L. S. DENSITY (1000-0 CPS)

RES (100-350 OHMS)

CALIPER (0-10INS)



MURDOCH GEOPHYSICS Corrected playback LOG: R018 PAGE NO. 1

055

771374

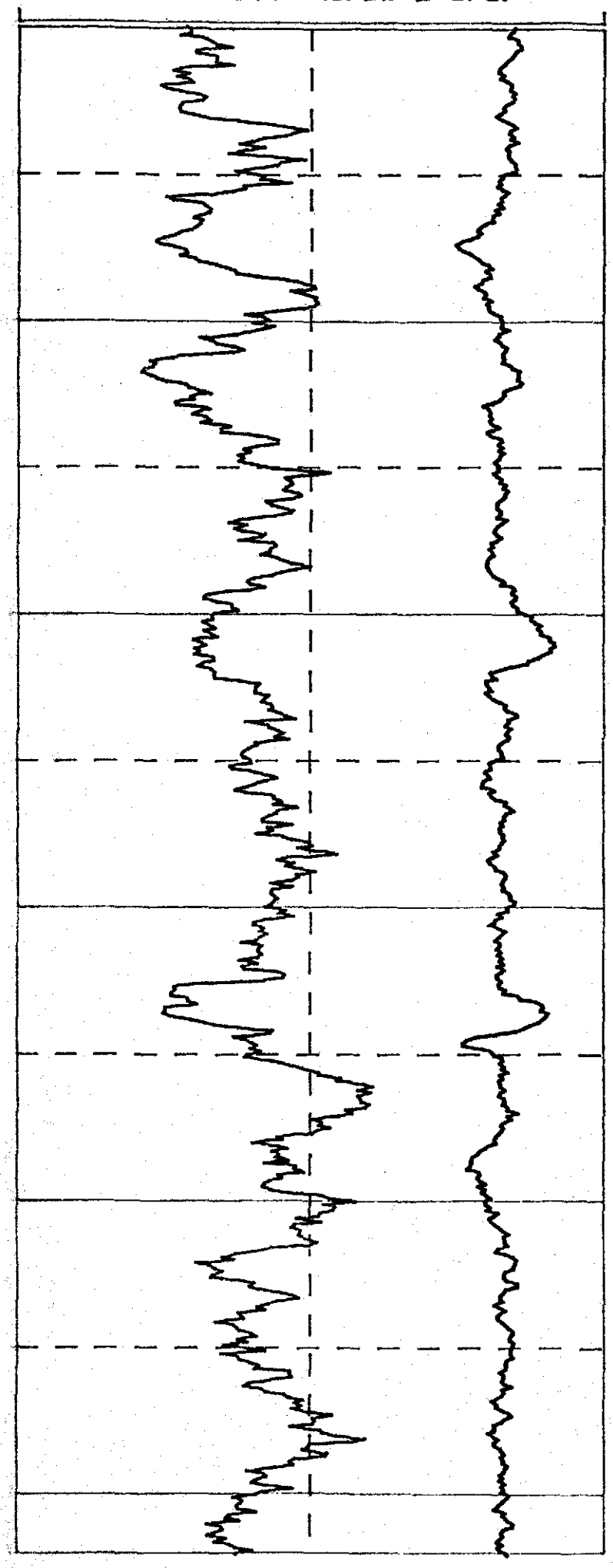
BOREHOLE NO. R016

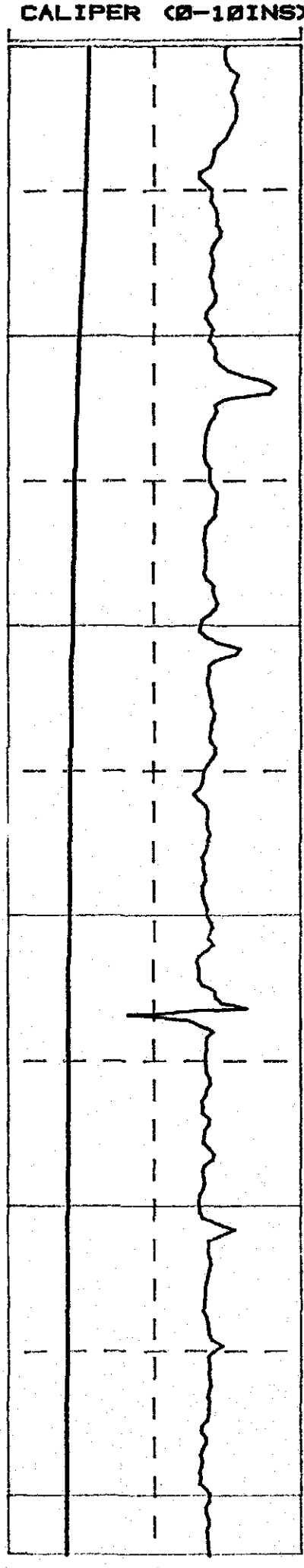
GAMMA (0-25 CPS)

L.S. DENSITY (1000-0 CPS)

RES (100-350 OHMS)

CALIPER (0-10INS)





25

30

35

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45

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MURDOCH GEOPHYSICS

Corrected playback: LOG: R016

PAGE NO. 2

056

771375

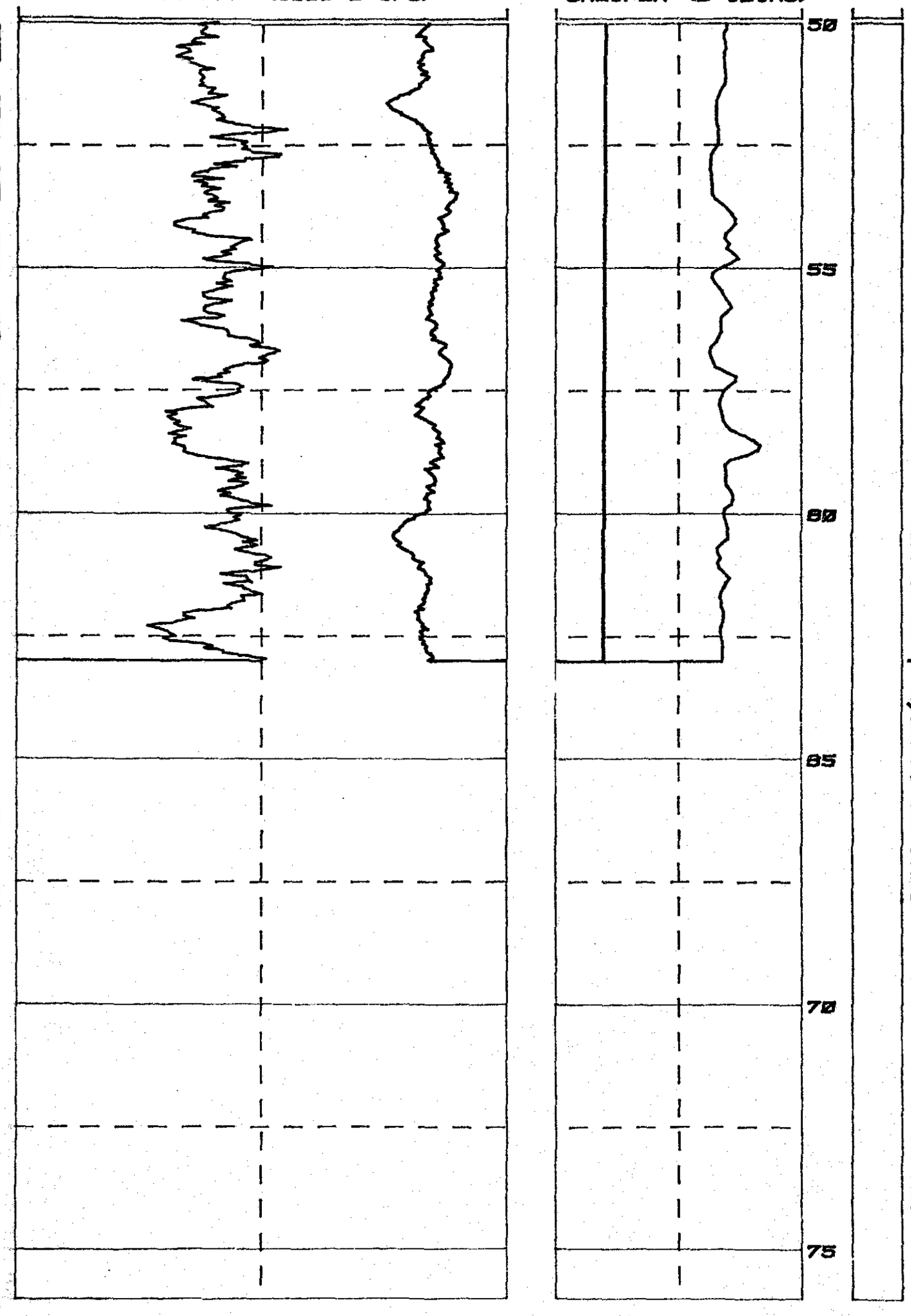
BOREHOLE NO. R016

GAMMA (0-25 CPS)

L.S. DENSITY (1000-0 CPS)

RES (100-350 OHMS)

CALIPER (0-10INS)



MURDOCH GEOPHYSICS Corrected Playback LOG: R016

PAGE NO. 3

057

771376

BOREHOLE : R017

CLIENT : C.S.R.

LOCATION: Westbury. Tasmania.



DATE LOGGED: 3-11-81 BY D. DOUGHERTY

EQUIPMENT DATA

LOG	Tape No./File	Recording Speed (m/min)	T.C. Sec.	Source	Borehole Position	Depth Logged
Resistivity (PR)		6	—	—	Free	0 m TO 30 m
Self Potential	—	—	—	—	Free	TO —
Nat. Gamma (γ)		6	2	—	Free	1m TO 30 m
γ-γ Density		6	1	Cs137	Sidewall	1m TO 30 m
Neutron		—	1	—	Sidewall	— TO —
Caliper		6	—	—	3-Arm	1m TO 30 m

BOREHOLE DATA

Date Drilled: 3-11-81 Tot. Depth Drilled (Driller): .....

Permanent Datum: G.L. Elevation of P.D.: .....

Casing: Type: ..... Depth: .....

Bit Sizes: 1 ..... From ..... to .....
2 ..... From ..... to .....

FLUID DATA: Nature: ..... S.G.: .....

Viscosity: ..... Level: 0.8 metre

058

771377

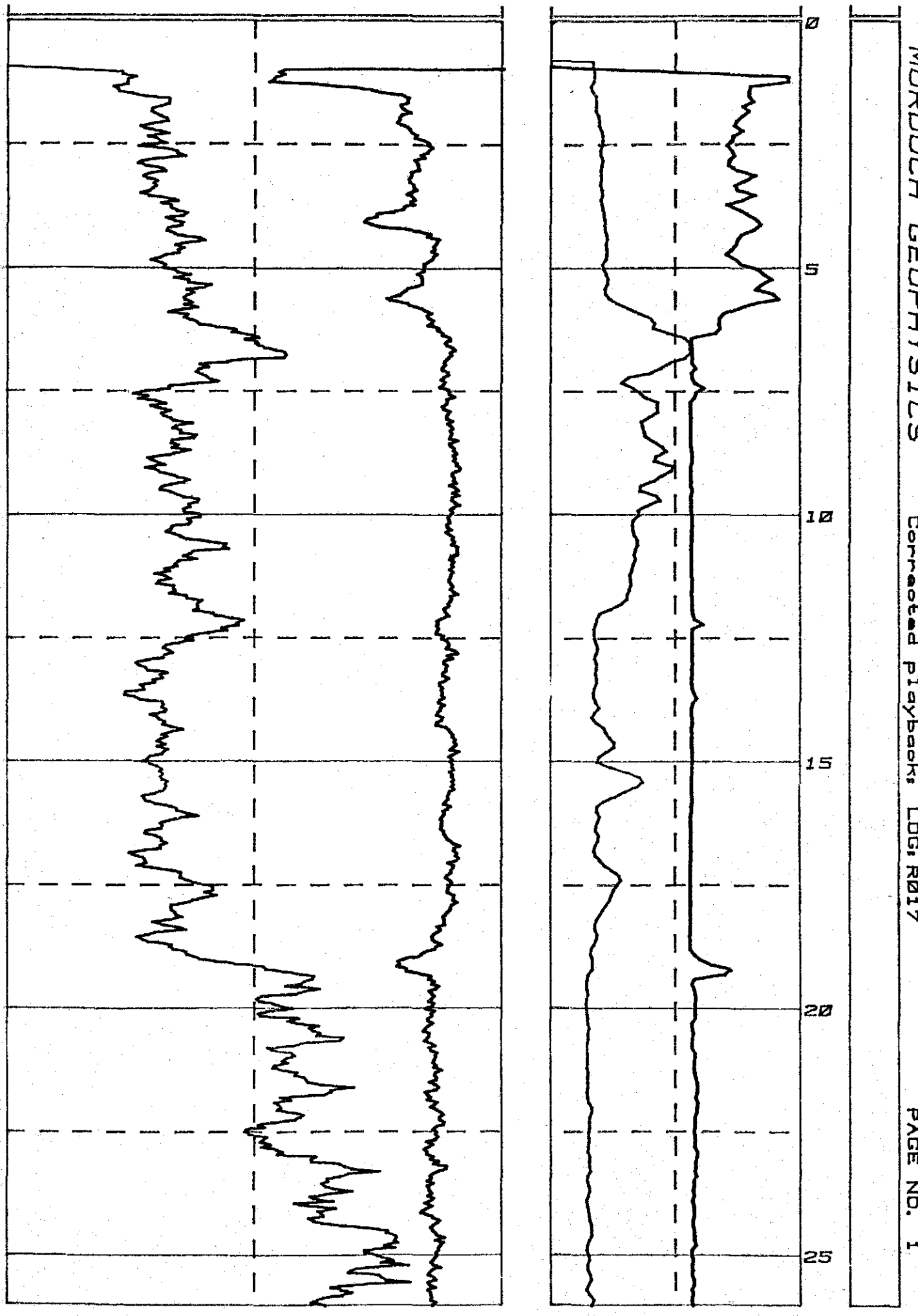
BOREHOLE NO: RØ17

GAMMA (Ø-25 CPS)

L.S. DENSITY (1ØØØ-Ø CPS)

RES (Ø-1ØØØ OHMS)

CALIPER (Ø-1ØINS)



MURDOCH GEOPHYSICS Corrected playback: LOG: RØ17 PAGE NO. 1

059

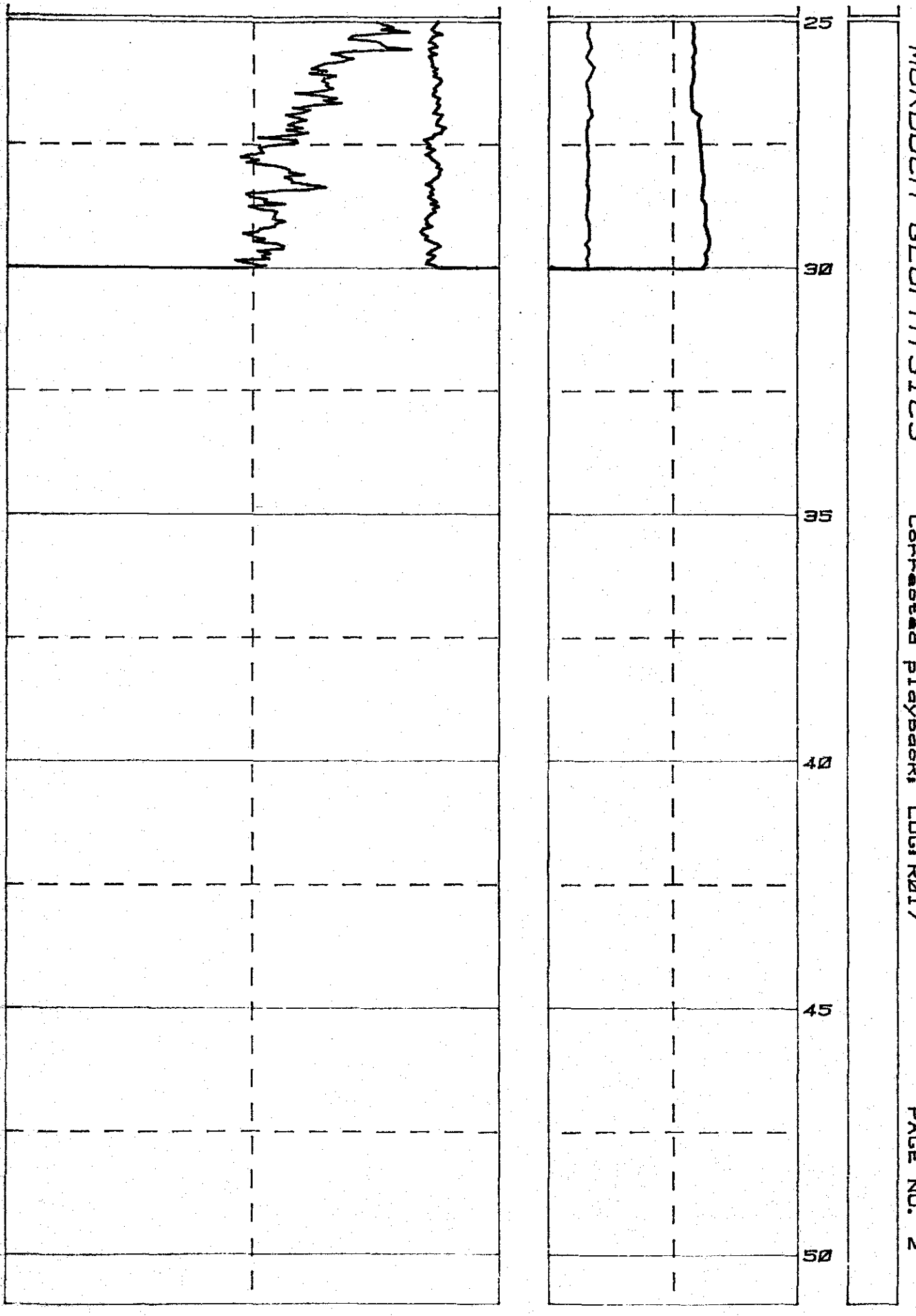
771378 BOREHOLE NO: RØ17

GAMMA (Ø-25 CPS)

L.S. DENSITY (1ØØØ-Ø CPS)

RES (Ø-1ØØØ OHMS)

CALIPER (Ø-1ØINS)



MURDOCH GEOPHYSICS Corrected playback: LOG: RØ17 PAGE NO. 2

060 771379

BOREHOLE : R018

CLIENT : C.S.R.

LOCATION: Westbury. Tasmania.

DATE LOGGED: 4-11-81 BY D. DOUGHERTY



EQUIPMENT DATA

LOG	Tape No./File	Recording Speed (m/min)	T.C. Sec.	Source	Borehole Position	Depth Logged
Resistivity (PR)		6	—	—	Free	0 m TO 67 m
Self Potential	—	—	—	—	Free	TO —
Nat. Gamma (γ)		6	2	—	Free	1m TO 67 m
γ-γ Density		6	1	Cs137	Sidewall	1m TO 67 m
Neutron		—	1	—	Sidewall	— TO —
Caliper		6	—	—	3-Arm	1m TO 67 m

BOREHOLE DATA

Date Drilled: 4-11-81 Tot. Depth Drilled (Driller): .....

Permanent Datum: G.L. Elevation of P.D.: .....

Casing: Type: ..... Depth: .....

Bit Sizes: 1 ..... From .....to .....
2 ..... From .....to .....

FLUID DATA: Nature: ..... SG.: .....

Viscosity: ..... Level: 13 metres

061

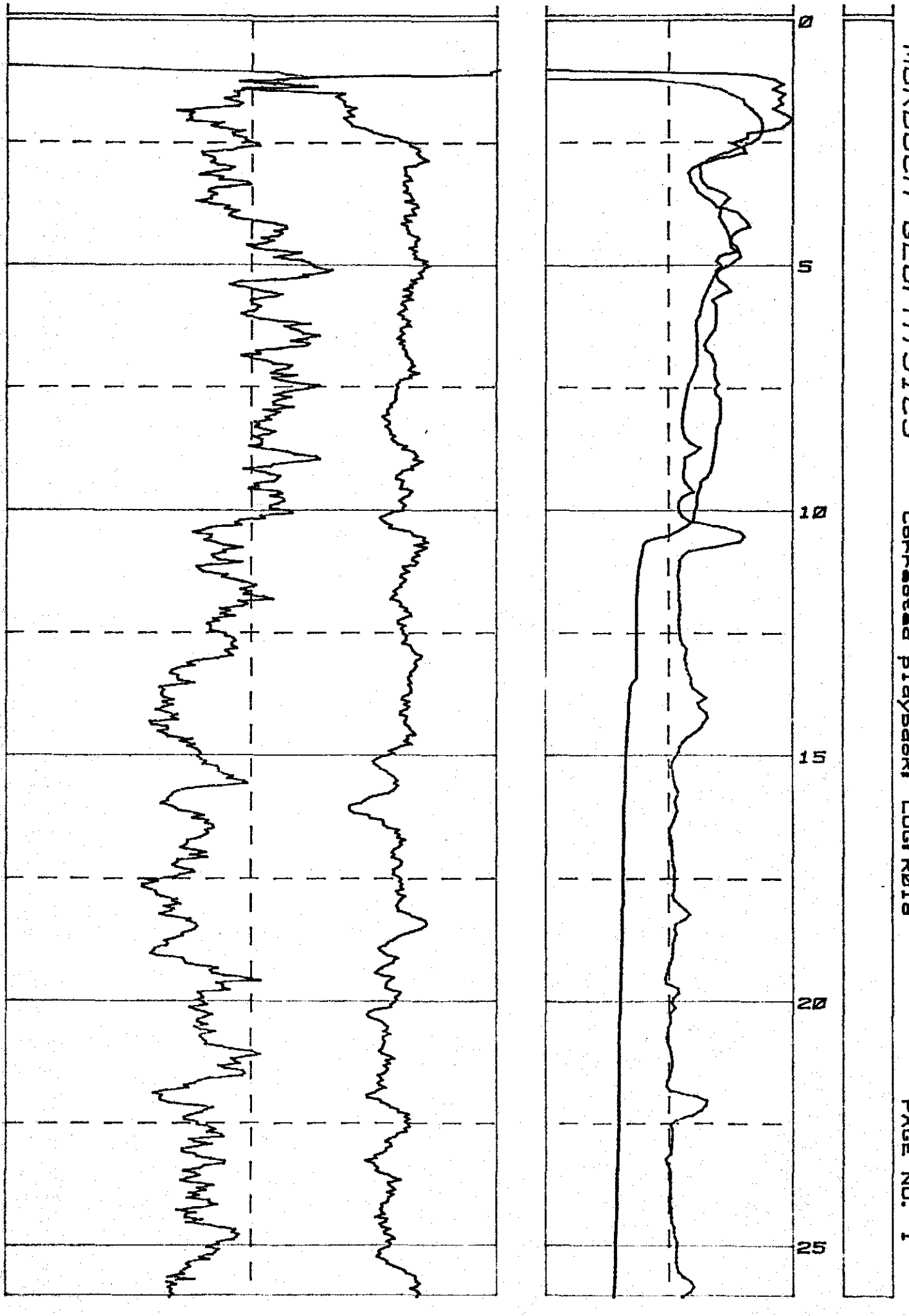
771380 BOREHOLE NO: RØ18

GAMMA (Ø-25 CPS)

L.S. DENSITY (1000-Ø CPS)

RES (200-700 OHMS)

CALIPER (Ø-10INS)



MURDOCH GEOPHYSICS Corrected playback: LOG: RØ18 PAGE NO. 1

062

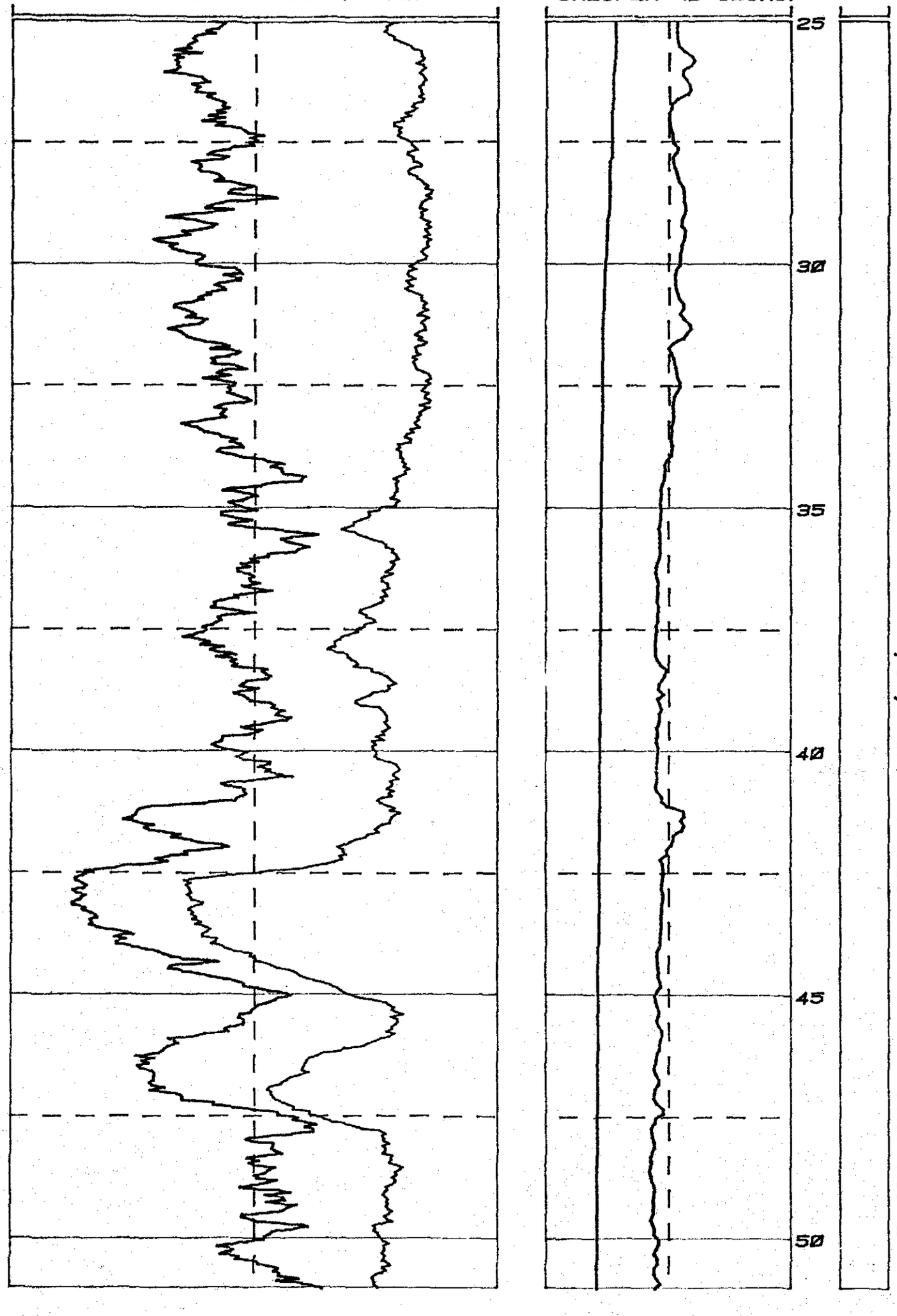
771381 BOREHOLE NO. RØ18

GAMMA (Ø-25 CPS)

L. S. DENSITY (1ØØØ-Ø CPS)

RES (2ØØ-5ØØ OHMS)

CALIPER (Ø-1ØINS)



MURDOCH GEOPHYSICS Corrected playback: LOG: RØ18 PAGE NO. 2

063

771382

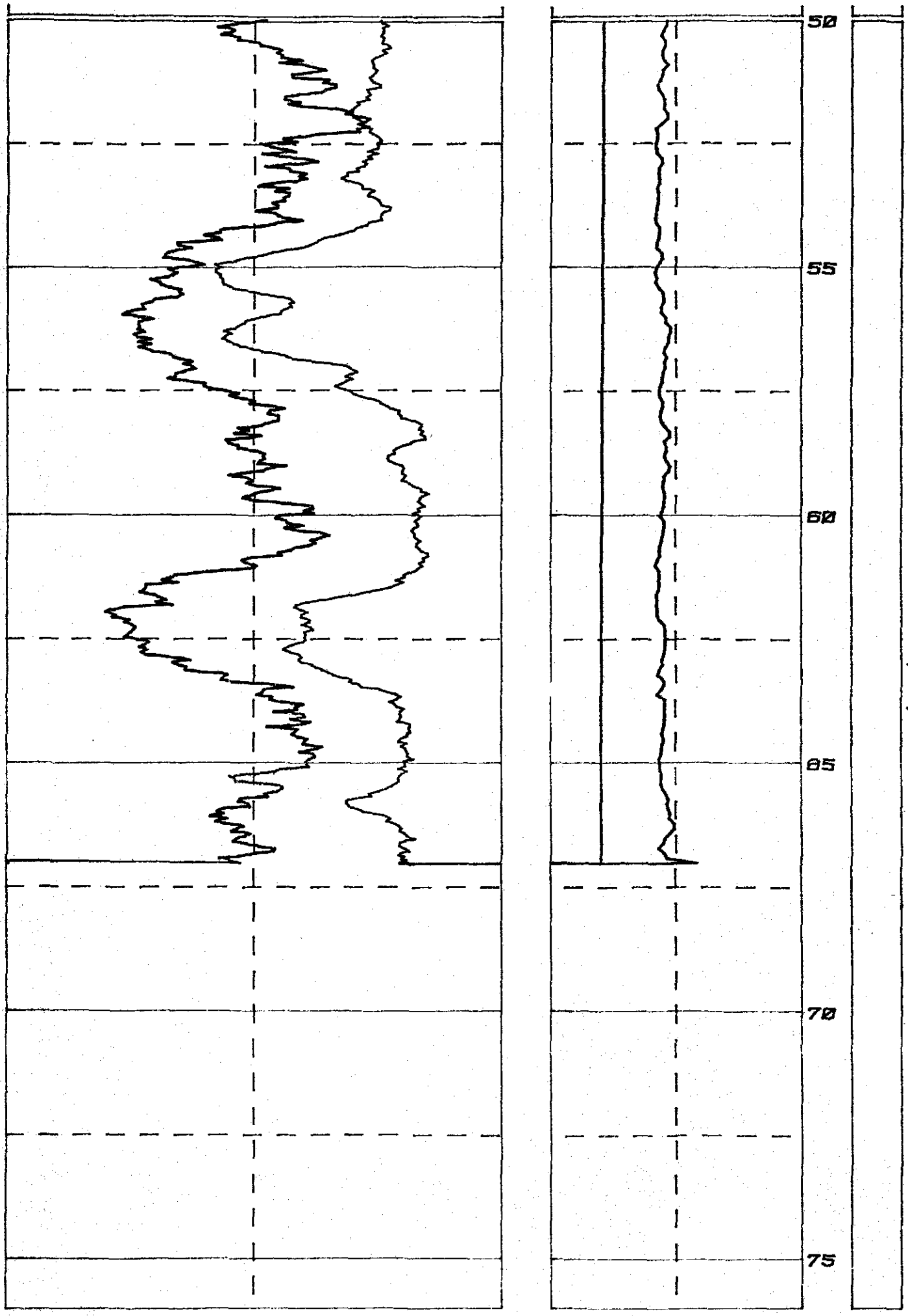
BOREHOLE NO. RØ18

GAMMA (Ø-25 CPS)

L.S. DENSITY (1ØØØ-Ø CPS)

RES (2ØØ-7ØØ OHMS)

CALIPER (Ø-1ØINS)



MURDOCH GEOPHYSICS Corrected playback LOG: RØ18

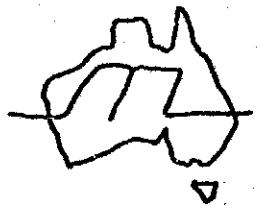
PAGE NO. 3

064 771383

BOREHOLE : RQ.19

CLIENT : C.S.R.

LOCATION: Westbury. Tasmania.



DATE LOGGED: 9-11-81 BY D. DOUGHERTY

EQUIPMENT DATA

LOG	Tape No./File	Recording Speed (m/min)	T.C. Sec.	Source	Borehole Position	Depth Logged
Resistivity (PR)		6	—	—	Free	0 m TO 51 m
Self Potential	—	—	—	—	Free	TO —
Nat. Gamma (γ)		6	2	—	Free	1m TO 72 m
γ-γ Density		6	1	Cs137	Sidewall	1m TO 51 m
Neutron		—	1	—	Sidewall	— TO —
Caliper		6	—	—	3-Arm	1m TO 51 m

BOREHOLE DATA

Date Drilled: 9-11-81 Tot. Depth Drilled (Driller): .....

Permanent Datum: G.L. Elevation of P.D.: .....

Casing: Type: ..... Depth: .....

Bit Sizes: 1 ..... From ..... to .....
2 ..... From ..... to .....

FLUID DATA: Nature: ..... S.G.: .....

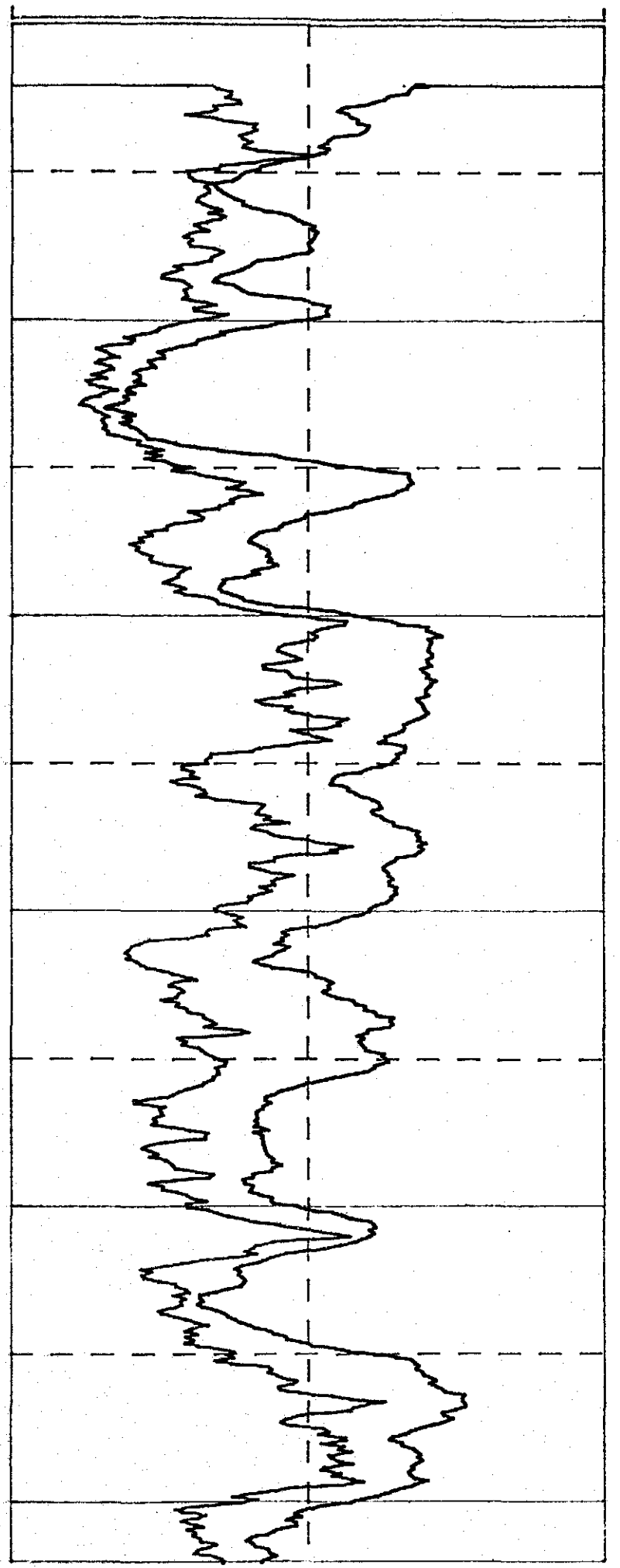
Viscosity: ..... Level: .....

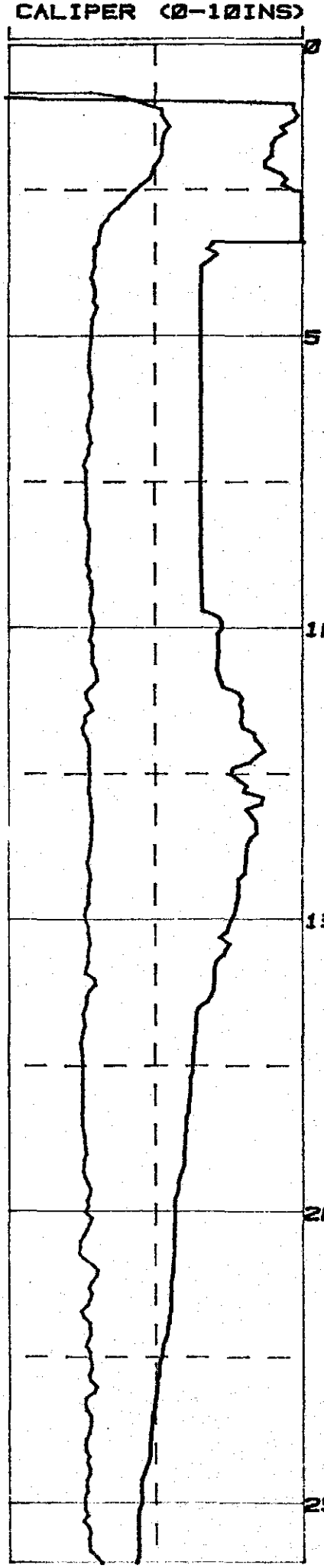
771384

BOREHOLE NO. R019

GAMMA (0-25 CPS)
L.S. DENSITY (1000-0 CPS)

RES (200-700 OHMS)
CALIPER (0-10INS)





MURDOCH GEOPHYSICS Corrected playback LOG: R019 PAGE NO. 1

066

771385

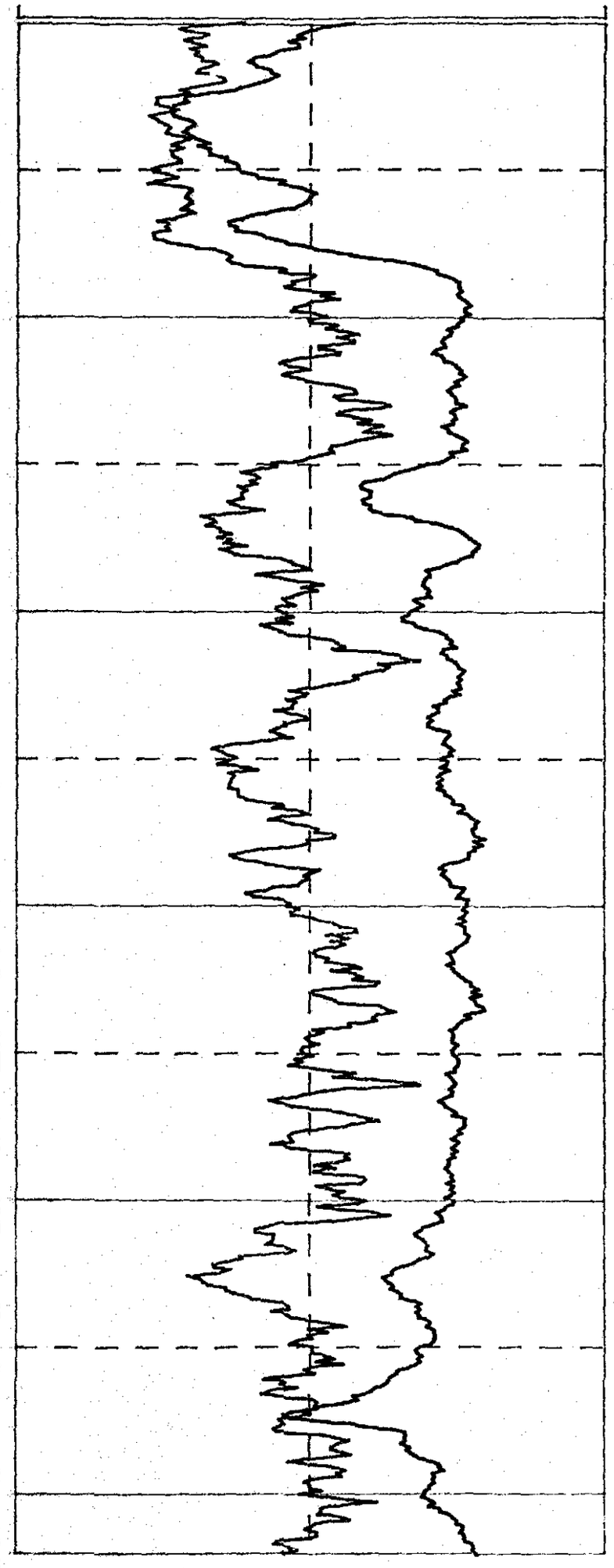
BOREHOLE NO: [illegible]

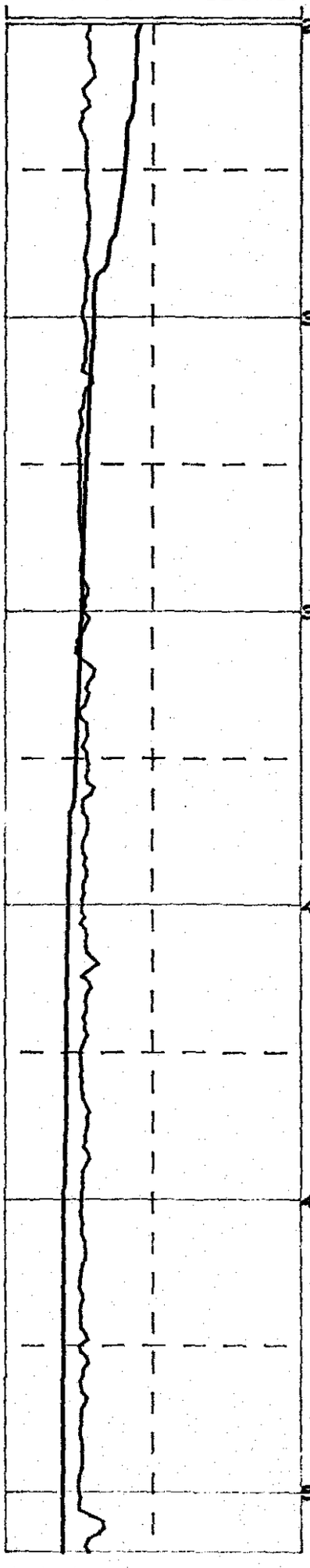
GAMMA (0-25 CPS)

L.S. DENSITY (1000-0 CPS)

RES (200-700 OHMS)

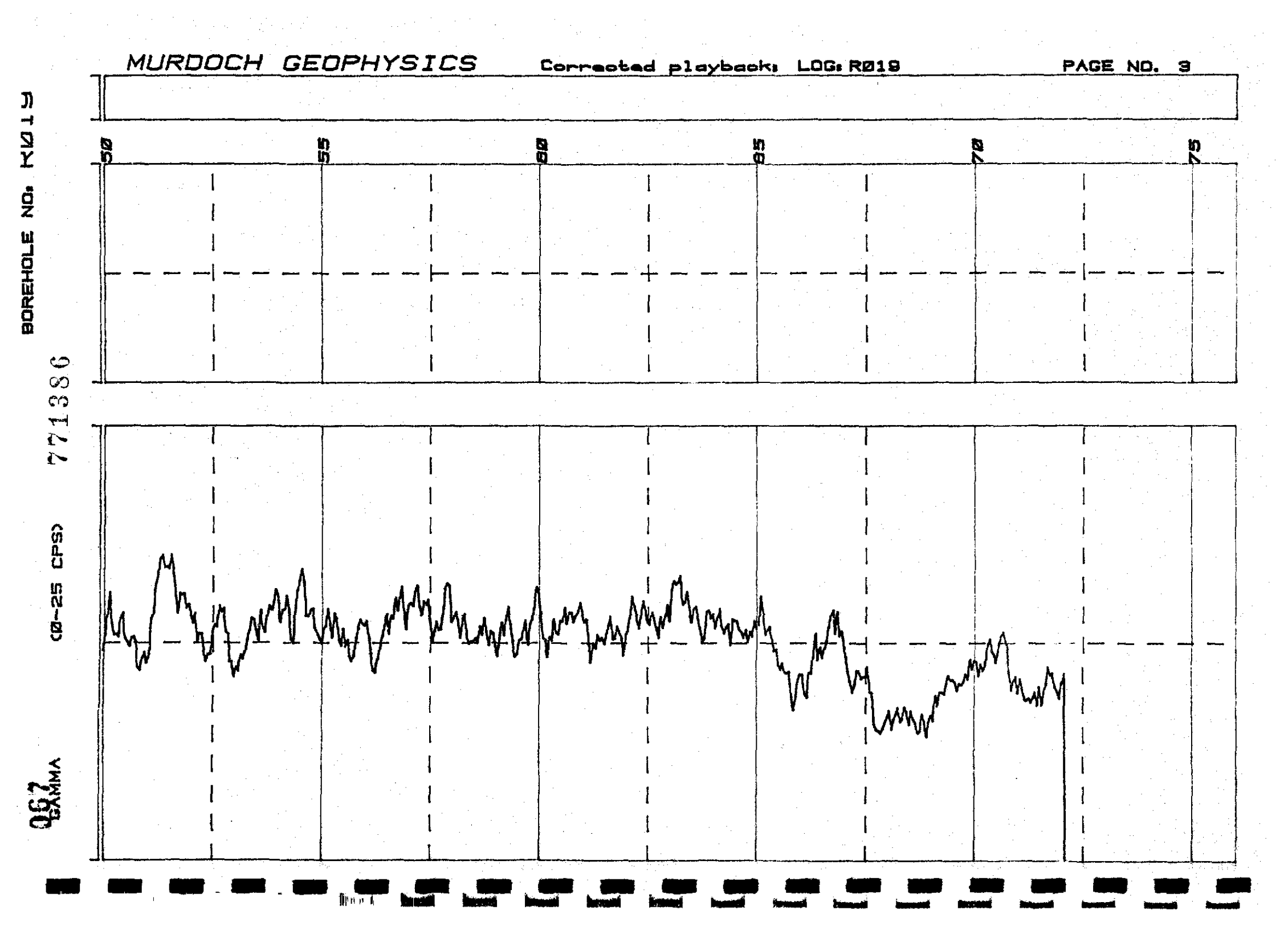
CALIPER (0-10INS)





MURDOCH GEOPHYSICS Corrected playback LOG: R010

PAGE NO. 2


MURDOCH GEOPHYSICS
Corrected playback: LOG: R018
PAGE NO. 3
BOREHOLE NO. KW17
50
55
60
65
70
75
771386
(0-25 CPS)
GAMMA

068

771387

BOREHOLE: R020

CLIENT: C.S.R.

LOCATION: Westbury. Tasmania.

DATE LOGGED: 6-11-81 BY D. DOUGHERTY.



EQUIPMENT DATA

LOG	Tape No./File	Recording Speed (m/min)	T.C. Sec.	Source	Borehole Position	Depth Logged
Resistivity (PR)		6	—	—	Free	0 m TO 78 m
Self Potential	—	—	—	—	Free	TO —
Nat. Gamma (γ)		6	2	—	Free	1m TO 78 m
γ-γ Density		6	1	Cs137	Sidewall	1m TO 78 m
Neutron		—	1	—	Sidewall	— TO —
Caliper		6	—	—	3-Arm	1m TO 78 m

BOREHOLE DATA

Date Drilled: 6-11-81 Tot. Depth Drilled (Driller): .....

Permanent Datum: G.L. Elevation of P.D.: .....

Casing: Type: ..... Depth: .....

Bit Sizes: 1 ..... From ..... to .....
2 ..... From ..... to .....

FLUID DATA: Nature: ..... SG.: .....

Viscosity: ..... Level: 2·6 metres

069

771388

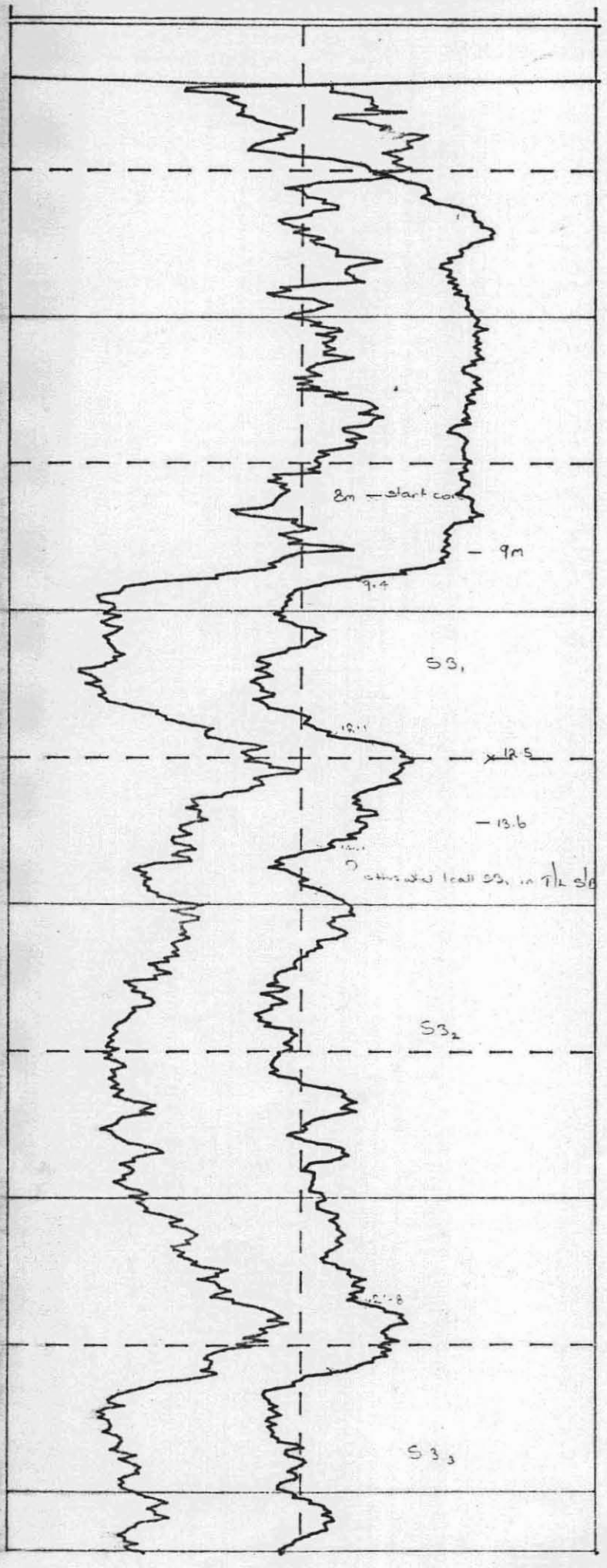
BOREHOLE NO. R020

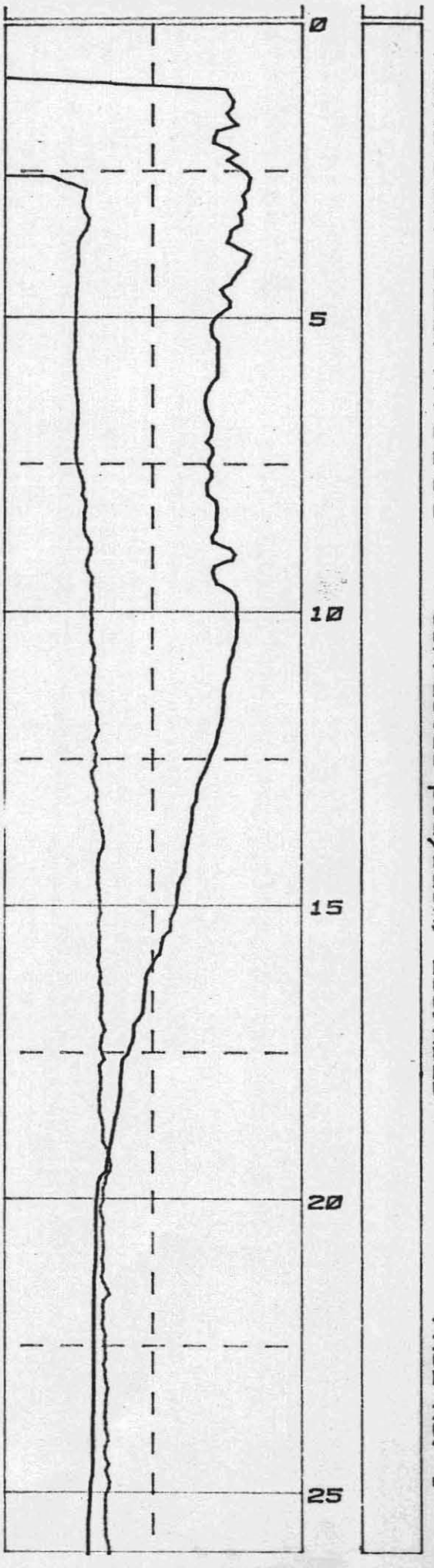
GAMMA (0-25 CPS)

L.S. DENSITY (1000-0 CPS)

RES (0-500 OHMS)

CALIPER (0-10INS)





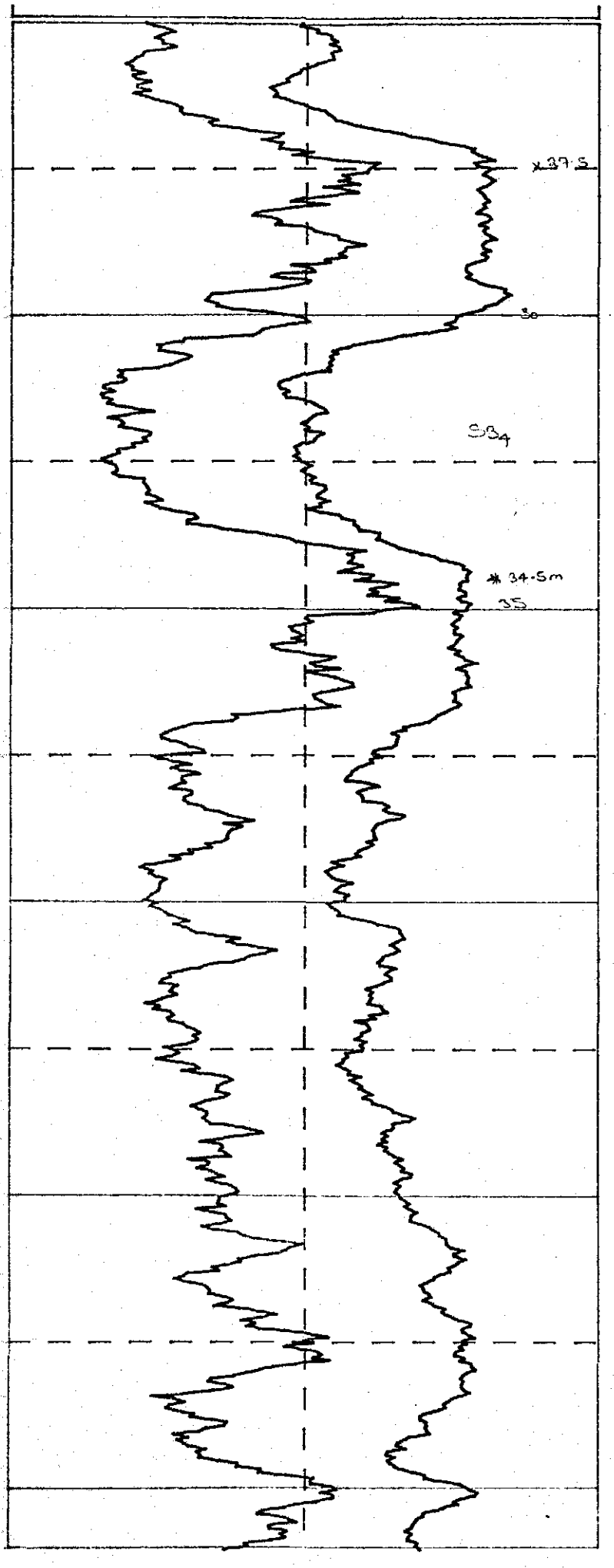
MURDOCH GEOPHYSICS Corrected playback: LOG: R020

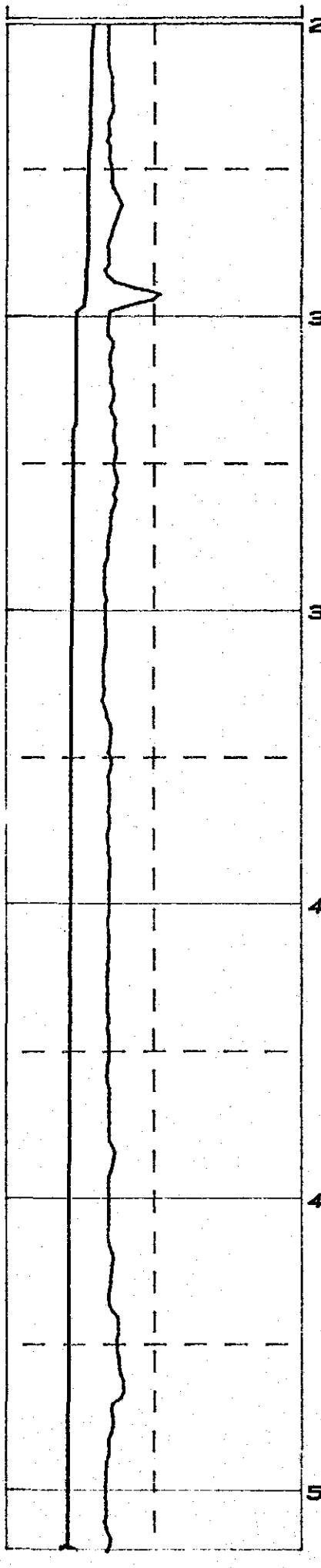
PAGE NO. 1

070 771389 BOREHOLE NO. R020

GAMMA (0-25 CPS)
L.S. DENSITY (1000-0 CPS)

RES (0-500 OHMS)
CALIPER (0-10INS)





MURDOCH GEOPHYSICS Corrected playback: LOG: R020 PAGE NO. 2

971

771390

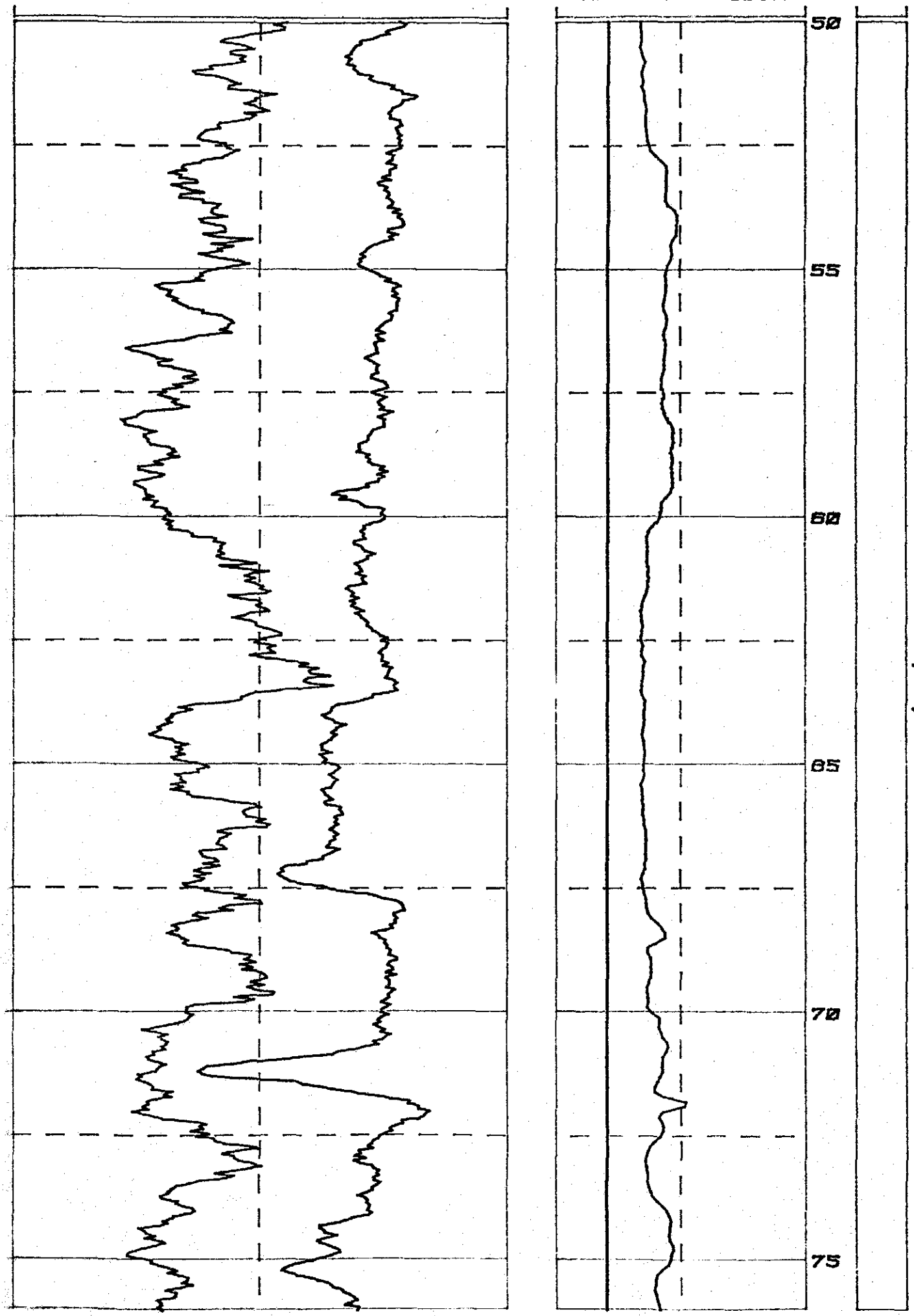
BOREHOLE NO. R020

GAMMA (0-25 CPS)

L. S. DENSITY (1000-0 CPS)

RES (0-500 OHMS)

CALIPER (0-10INS)



MURDOCH GEOPHYSICS

Corrected playback LOG: R020

PAGE NO. 3

072

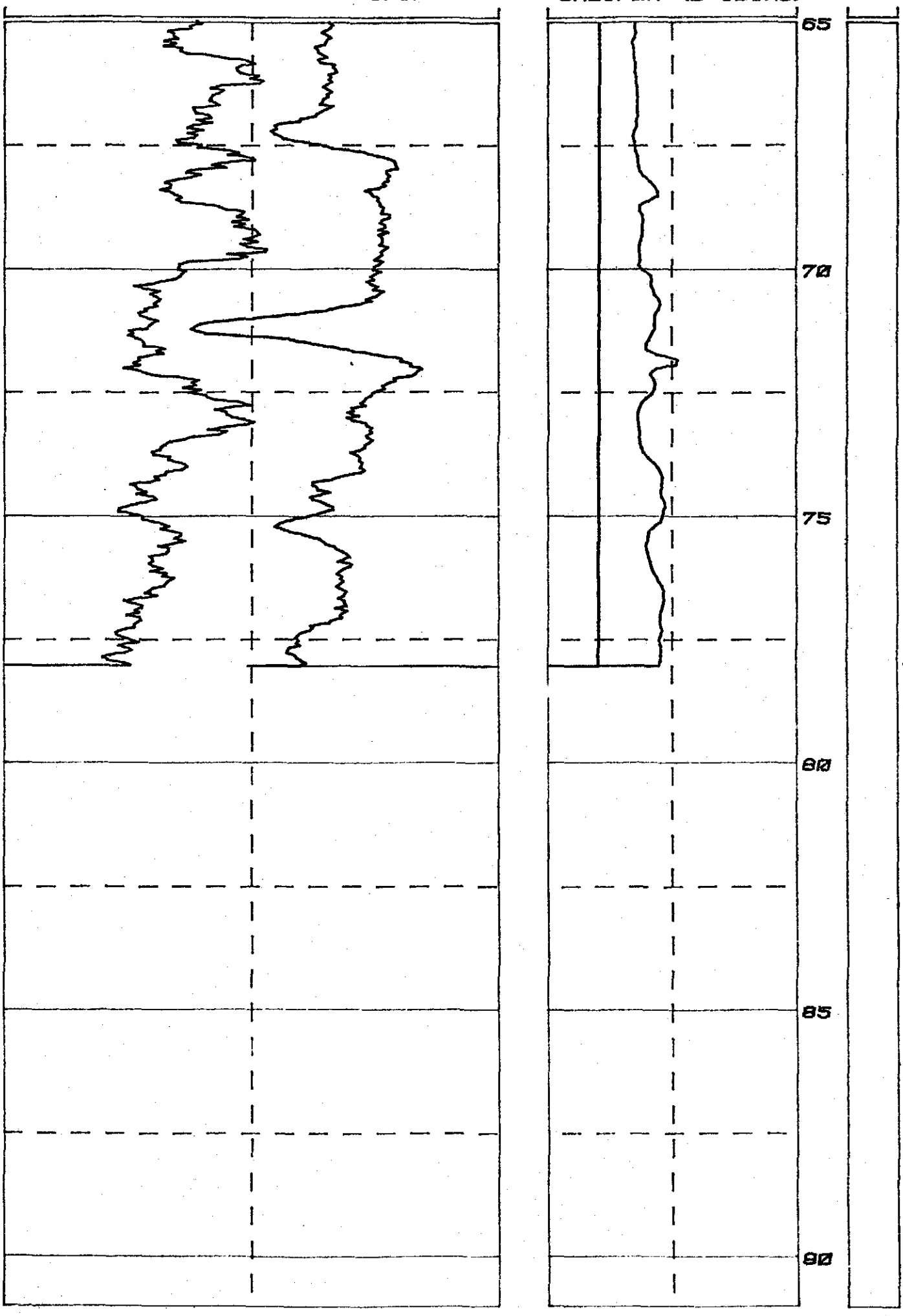
771391 BOREHOLE NO. R020

GAMMA (0-25 CPS)

L.S. DENSITY (1000-0 CPS)

RES (0-500 OHMS)

CALIPER (0-10INS)



MURDOCH GEOPHYSICS Corrected playback LOG: R020 PAGE NO. 4

013

771392

BOREHOLE : R021

CLIENT : C.S.R.

LOCATION: Westbury. Tasmania.

DATE LOGGED: 10-11-81 BY S. Morgan



EQUIPMENT DATA

LOG	Tape No./File	Recording Speed (m/min)	T.C. Sec.	Source	Borehole Position	Depth Logged
Resistivity (PR)		6	—	—	Free	0 m TO 80 m
Self Potential	—	—	—	—	Free	TO —
Nat. Gamma (γ)		6	2	—	Free	1m TO 80 m
γ-γ Density		6	1	Cs137	Sidewall	1m TO 80 m
Neutron		—	1	—	Sidewall	— TO —
Caliper		6	—	—	3-Arm	1m TO 80 m

BOREHOLE DATA

Date Drilled: 10-11-81 Tot. Depth Drilled (Driller): .....

Permanent Datum: G.L. Elevation of P.D.: .....

Casing: Type: ..... Depth: .....

Bit Sizes: 1 ..... From ..... to .....
2 ..... From ..... to .....

FLUID DATA: Nature: ..... SG.: .....

Viscosity: ..... Level: 3.8 Metres

074

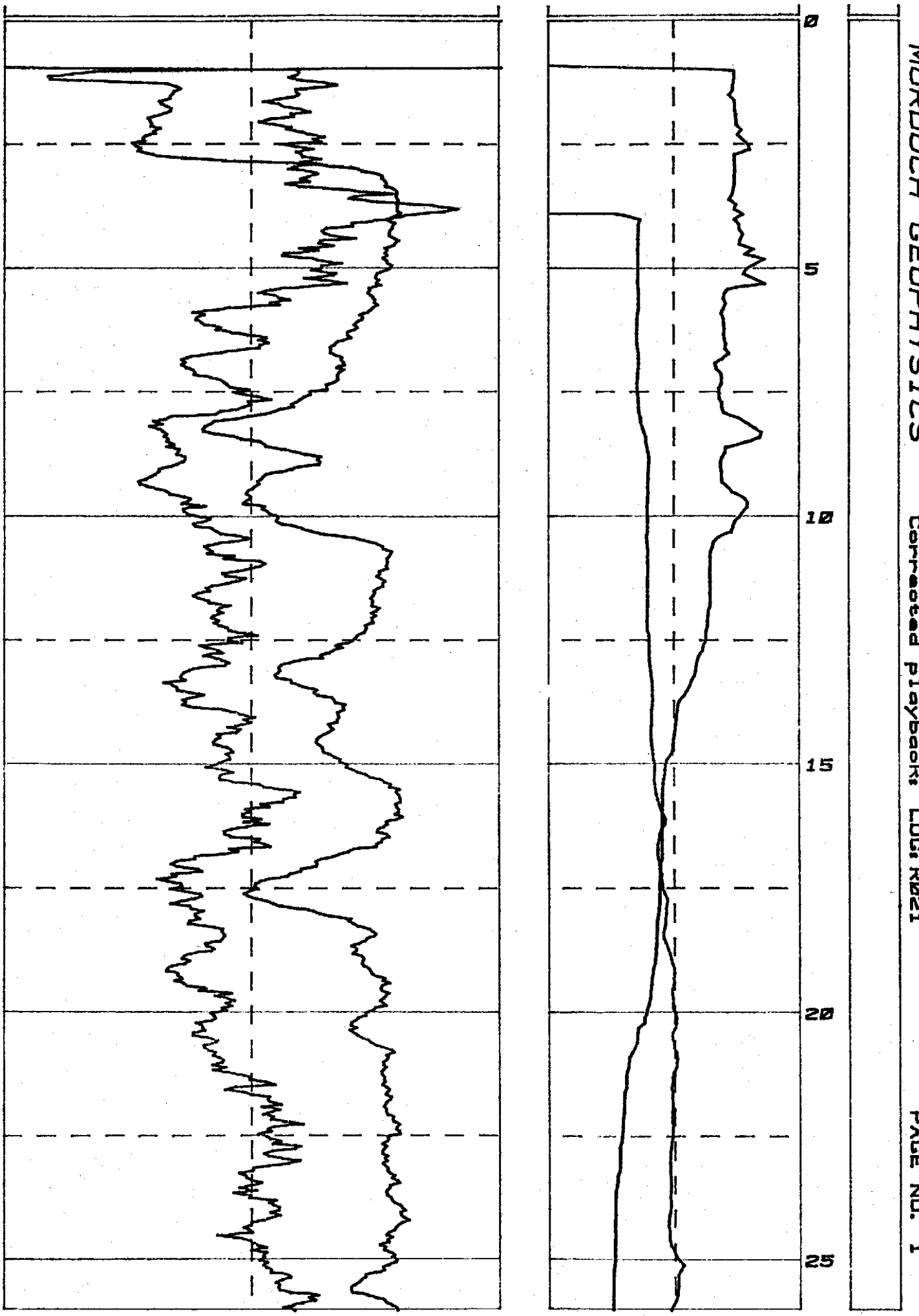
771393 BOREHOLE NO. R021

GAMMA (0-25 CPS)

L.S. DENSITY (1000-0 CPS)

RES (0-250 OHMS)

CALIPER (0-10INS)



MURDOCH GEOPHYSICS Corrected playback: LOG: R021 PAGE NO. 1

075

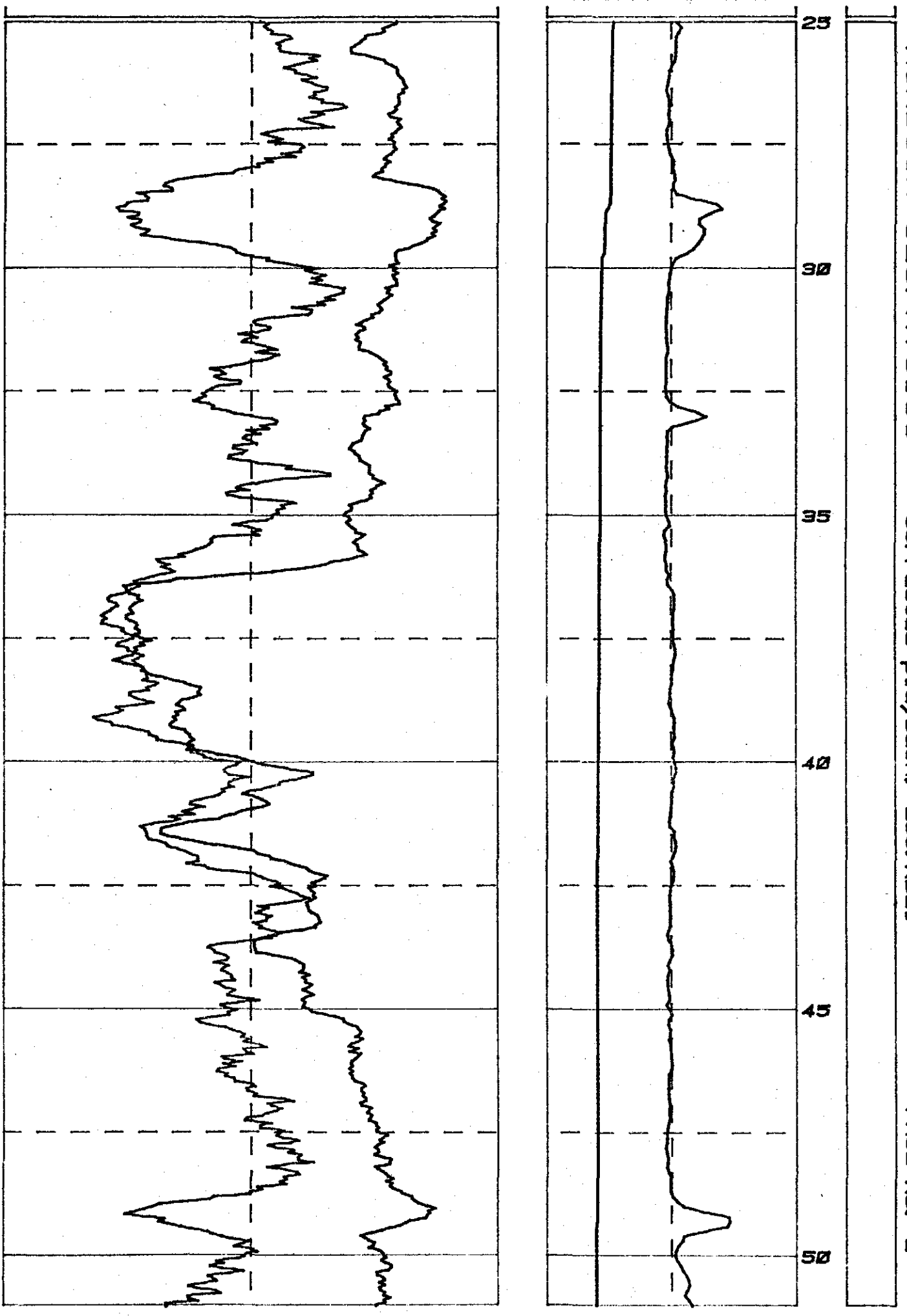
771394 BOREHOLE NO. R021

GAMMA (0-25 CPS)

L.S. DENSITY (1000-0 CPS)

RES (0-250 OHMS)

CALIPER (0-10INS)

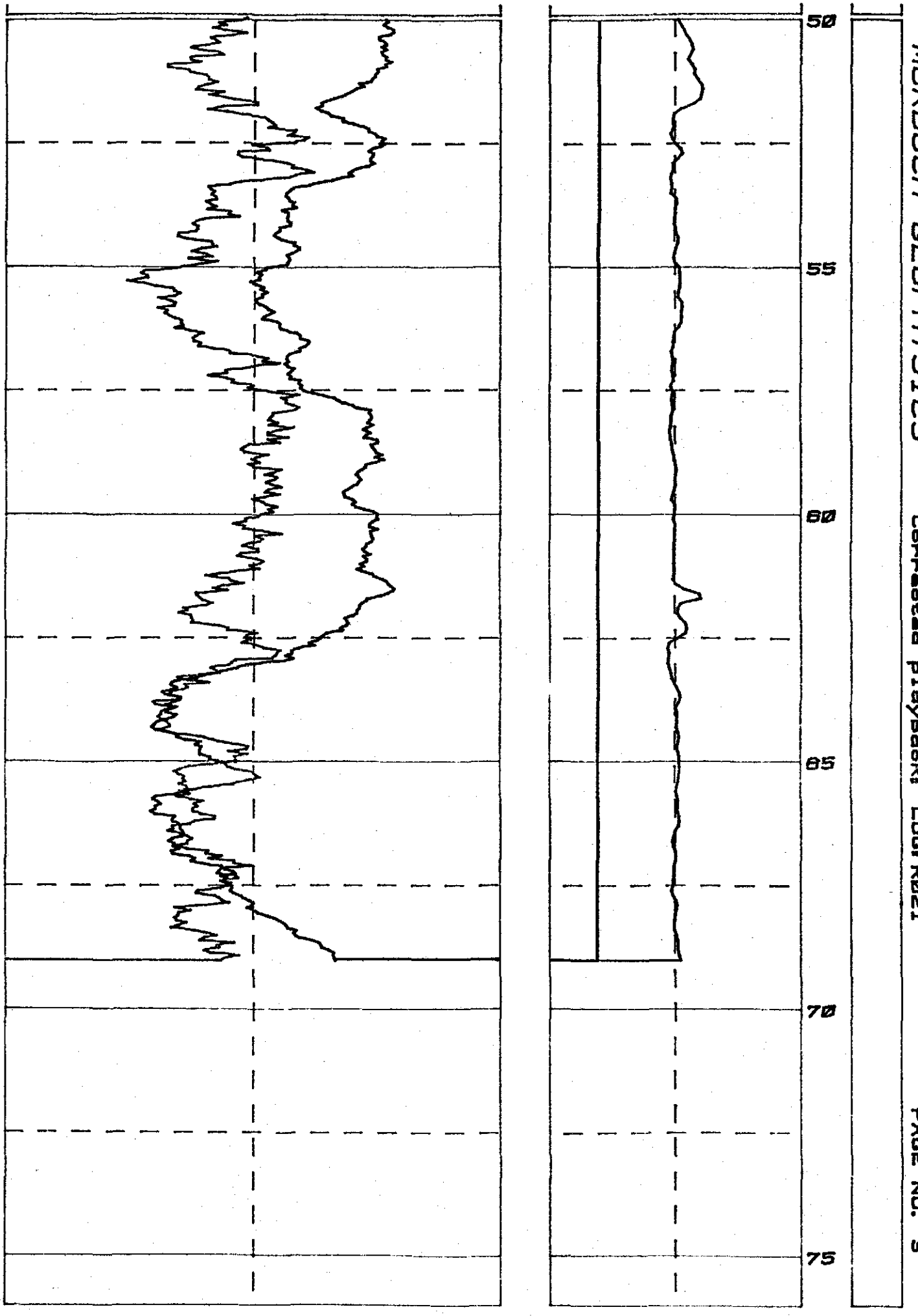


MURDOCH GEOPHYSICS Corrected Playback LOG: R021 PAGE NO. 2

076 771395 BOREHOLE NO. R021

GAMMA (0-25 CPS)
L.S. DENSITY (1000-0 CPS)

RES (0-250 OHMS)
CALIPER (0-10INS)



MURDOCH GEOPHYSICS Corrected playback LOG: R021 PAGE NO. 3

771396

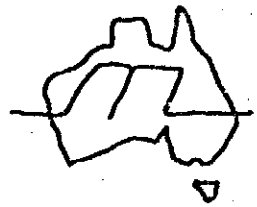
077

BOREHOLE : R022

CLIENT : C.S.R.

LOCATION: Westbury. Tasmania.

DATE LOGGED: 10-11-81 BY S. Morgan



EQUIPMENT DATA

LOG	Tape No./File	Recording Speed (m/min)	T.C. Sec.	Source	Borehole Position	Depth Logged
Resistivity (PR)		6	—	—	Free	0 m TO 55m
Self Potential	—	—	—	—	Free	— TO —
Nat. Gamma (γ)		6	2	—	Free	1m TO 75m
γ-γ Density		6	1	Cs137	Sidewall	1m TO 75m
Neutron		—	1	—	Sidewall	— TO —
Caliper		6	—	—	3-Arm	1m TO 65m

BOREHOLE DATA

Date Drilled: 10-11-81 Tot. Depth Drilled (Driller): .....

Permanent Datum: G.L. Elevation of P.D.: .....

Casing: Type: ..... Depth: .....

Bit Sizes: 1 ..... From ..... to .....
2 ..... From ..... to .....

FLUID DATA: Nature: ..... S.G.: .....

Viscosity: ..... Level: 5.2 metres

078

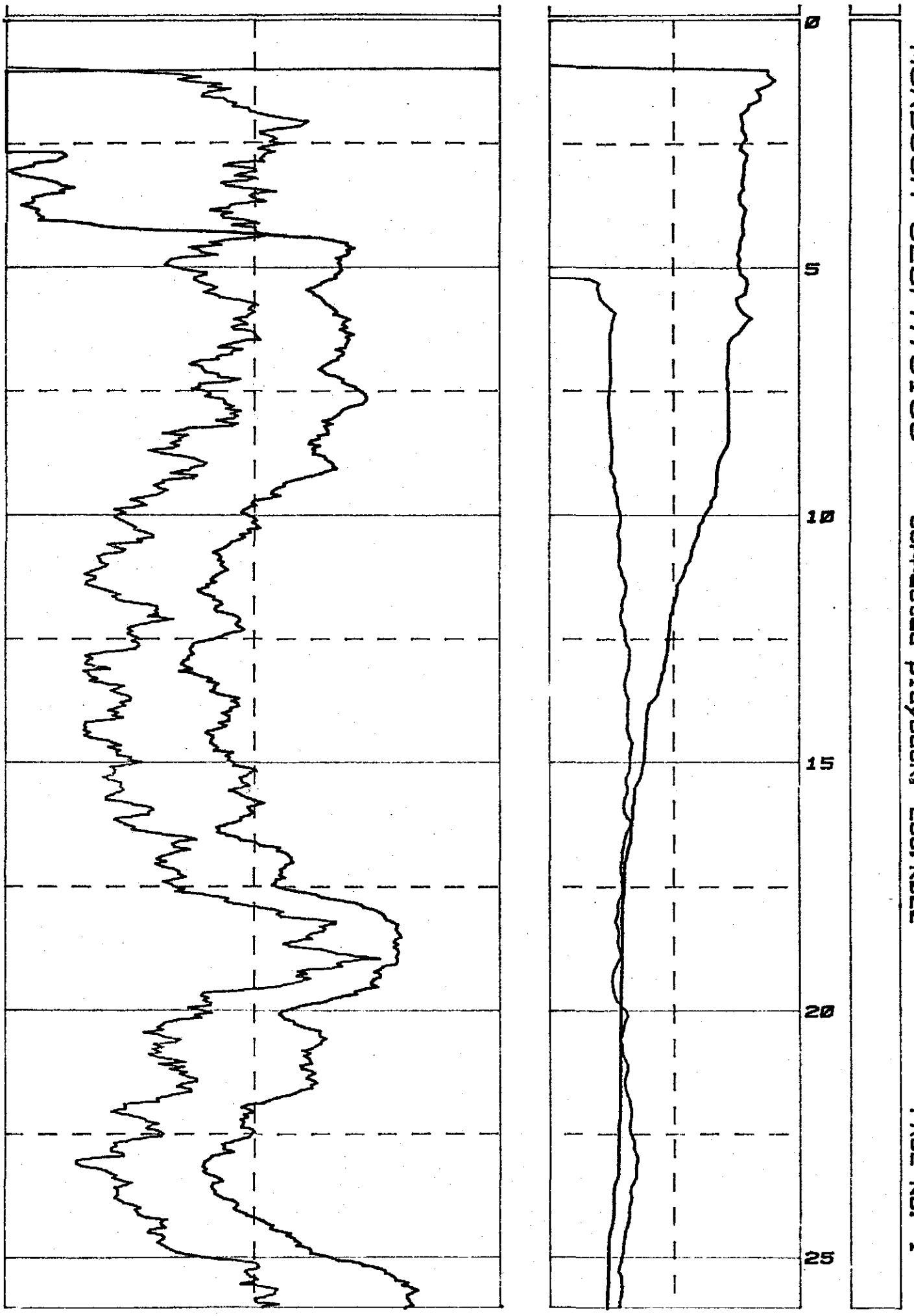
771397 BOREHOLE NO. R022

GAMMA (0-25 CPS)

L.S. DENSITY (1000-0 CPS)

RES (100-350 OHMS)

CALIPER (0-10INS)



MURDOCH GEOPHYSICS Corrected Playback LOG: R022 PAGE NO. 1

079

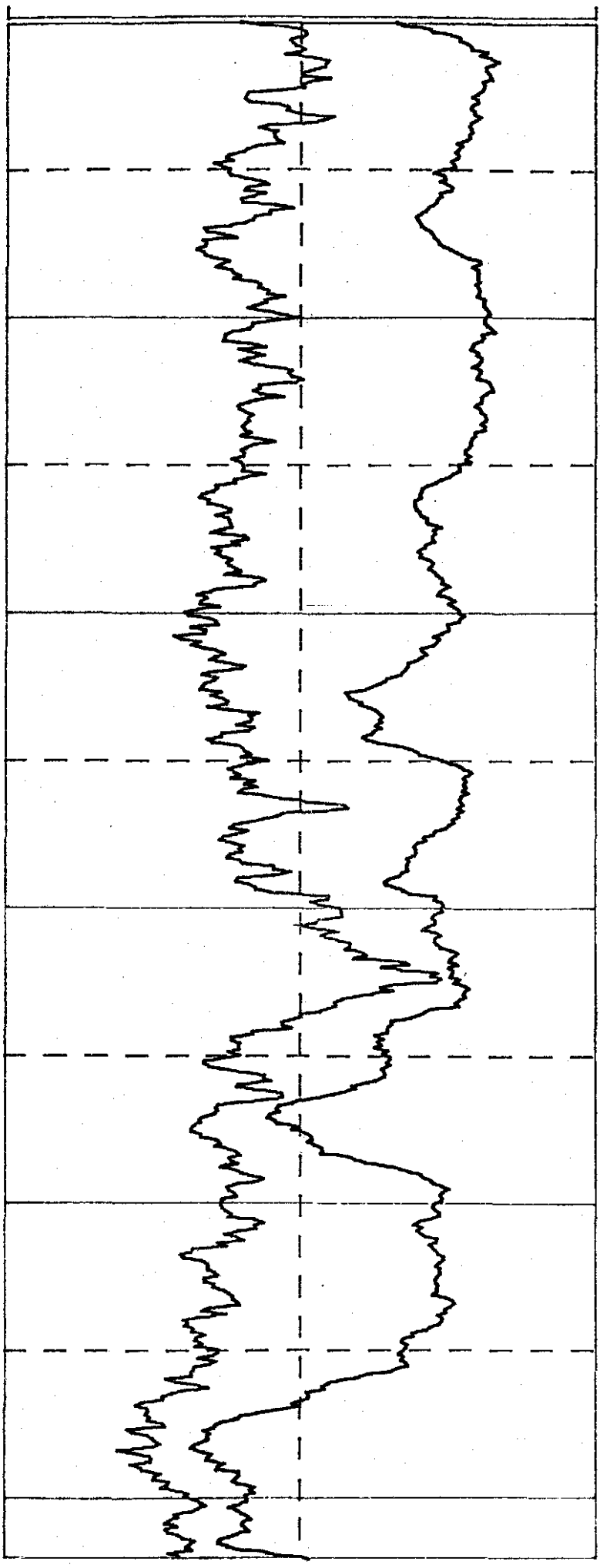
771398 BOREHOLE NO. R022

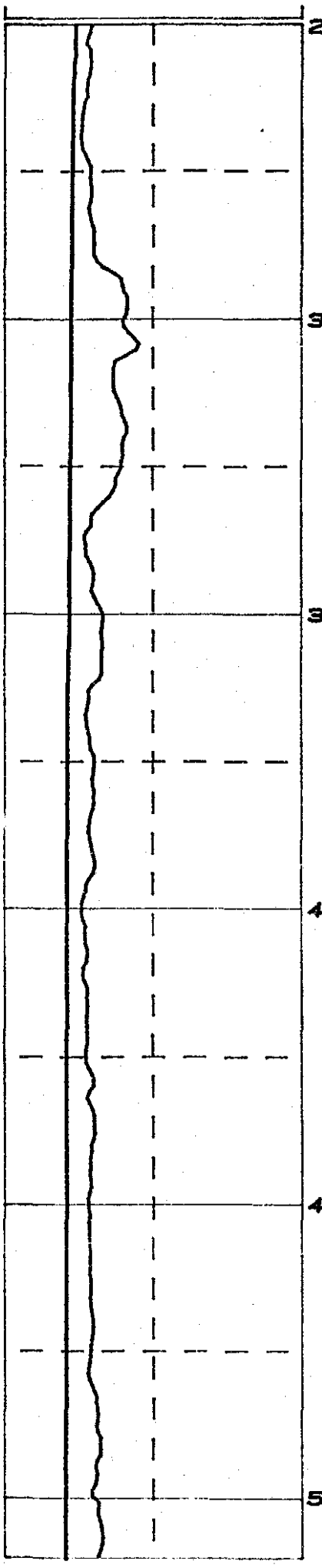
GAMMA (0-25 CPS)

L.S. DENSITY (1000-0 CPS)

RES (100-350 OHMS)

CALIPER (0-10INS)

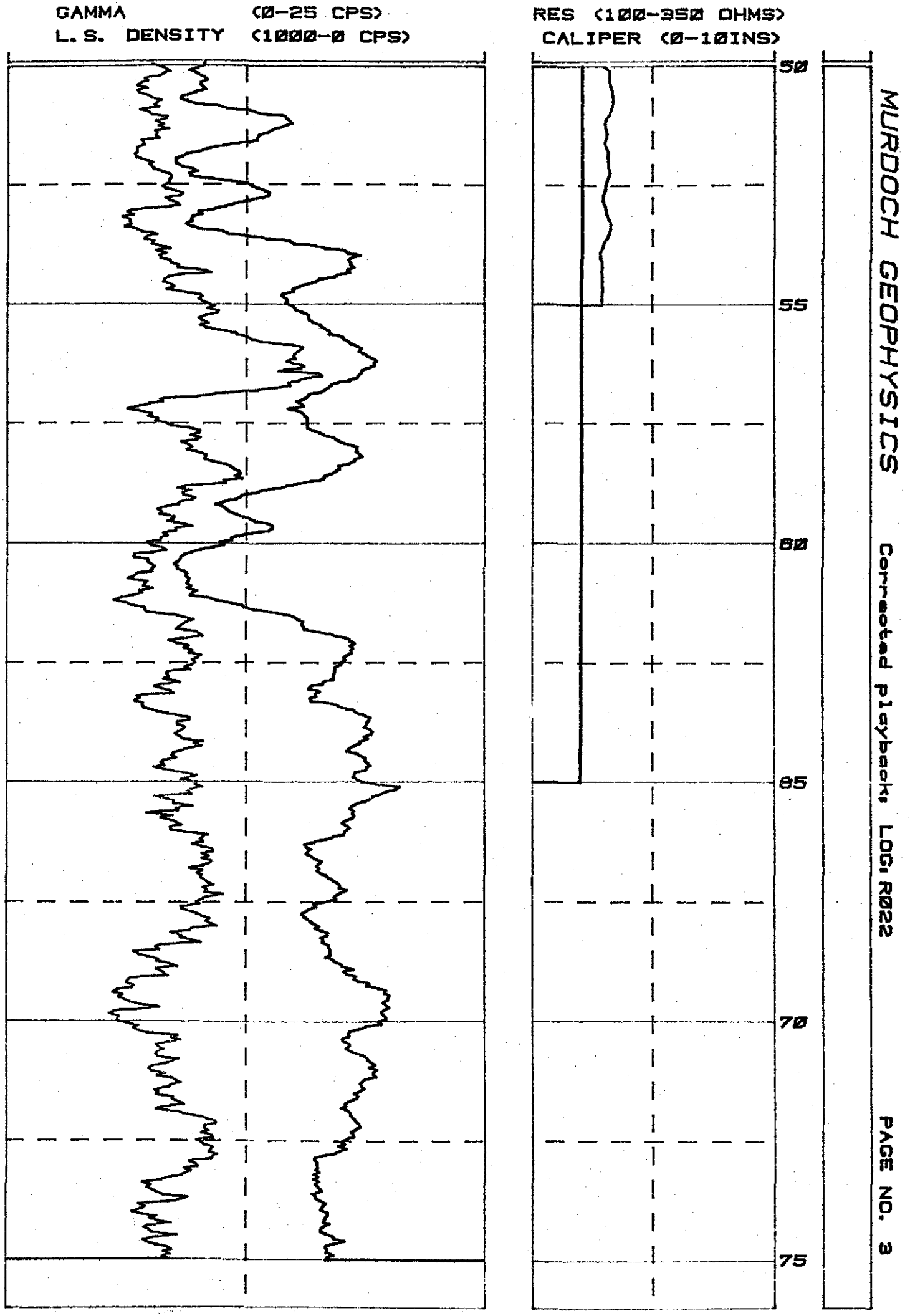




MURDOCH GEOPHYSICS Corrected playback LOG: R022 PAGE NO. 2

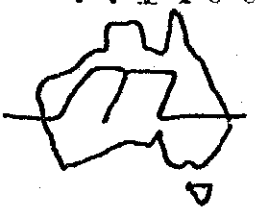
080

771399 BOREHOLE NO: R022



081

771400



BOREHOLE : R023

CLIENT : C.S.R.

LOCATION: Westbury. Tasmania.

DATE LOGGED: 11-11-81 BY S. Morgan

EQUIPMENT DATA

LOG	Tape No./File	Recording Speed (m/min)	T.C. Sec.	Source	Borehole Position	Depth Logged
Resistivity (PR)		6	—	—	Free	0 m TO 57 m
Self Potential	—	—	—	—	Free	TO —
Nat. Gamma (γ)		6	2	—	Free	1m TO 57 m
γ-γ Density		6	1	Cs137	Sidewall	1m TO 56 m
Neutron		—	1	—	Sidewall	— TO —
Caliper		6	—	—	3-Arm	1m TO 56 m

BOREHOLE DATA

Date Drilled: 11-11-81 Tot. Depth Drilled (Driller): .....

Permanent Datum: G.L. Elevation of P.D.: .....

Casing: Type: ..... Depth: .....

Bit Sizes: 1 ..... From ..... to .....
2 ..... From ..... to .....

FLUID DATA: Nature: ..... S.G.: .....

Viscosity: ..... Level: 2-7 metres

052

771401

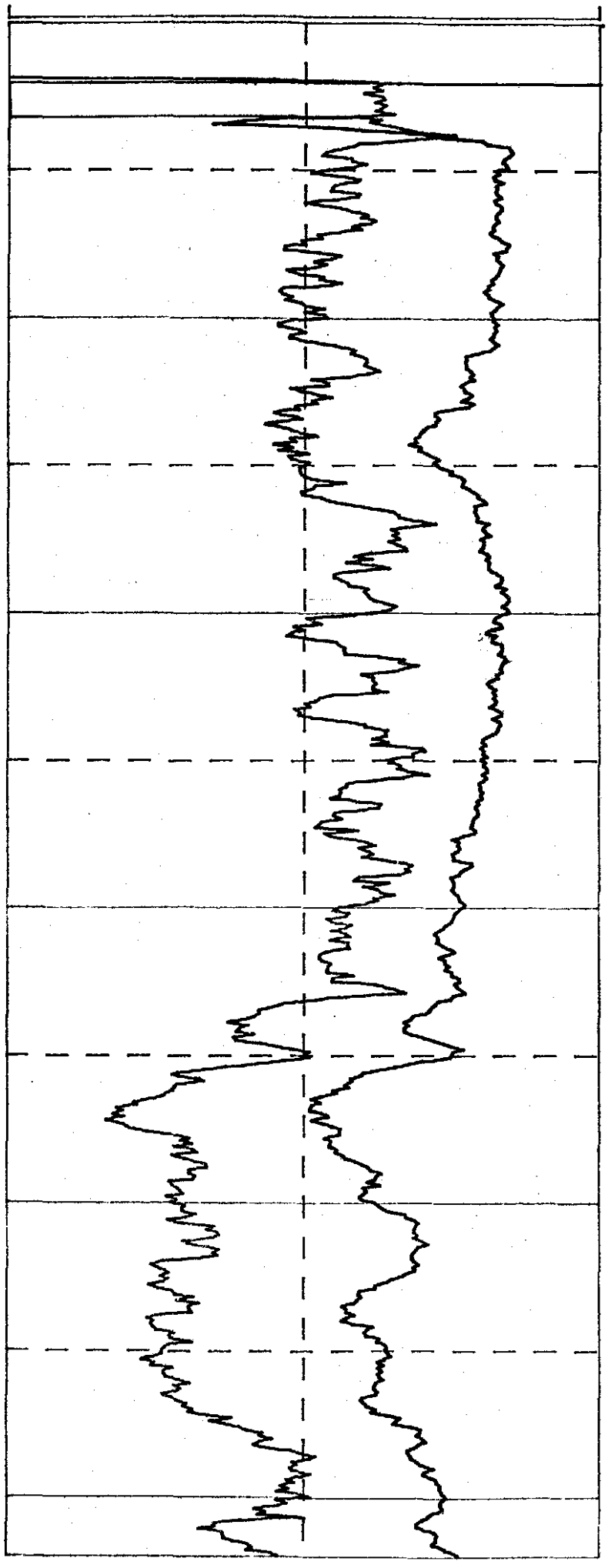
BOREHOLE NO. RØ23

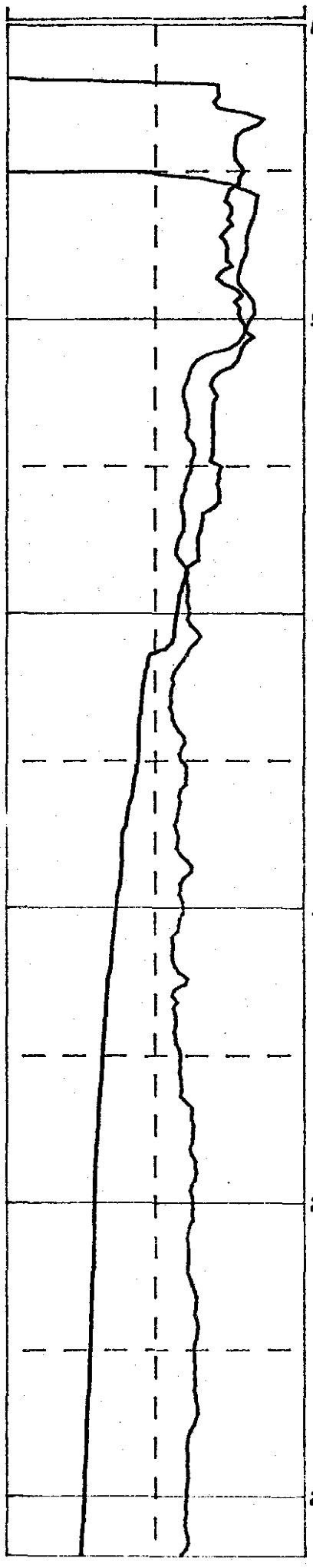
GAMMA (Ø-25 CPS)

L.S. DENSITY (1ØØØ-Ø CPS)

RES (1ØØ-35Ø OHMS)

CALIPER (Ø-1ØINS)





Ø

5

1Ø

15

2Ø

25

MURDOCH GEOPHYSICS Corrected playback LOG: RØ23

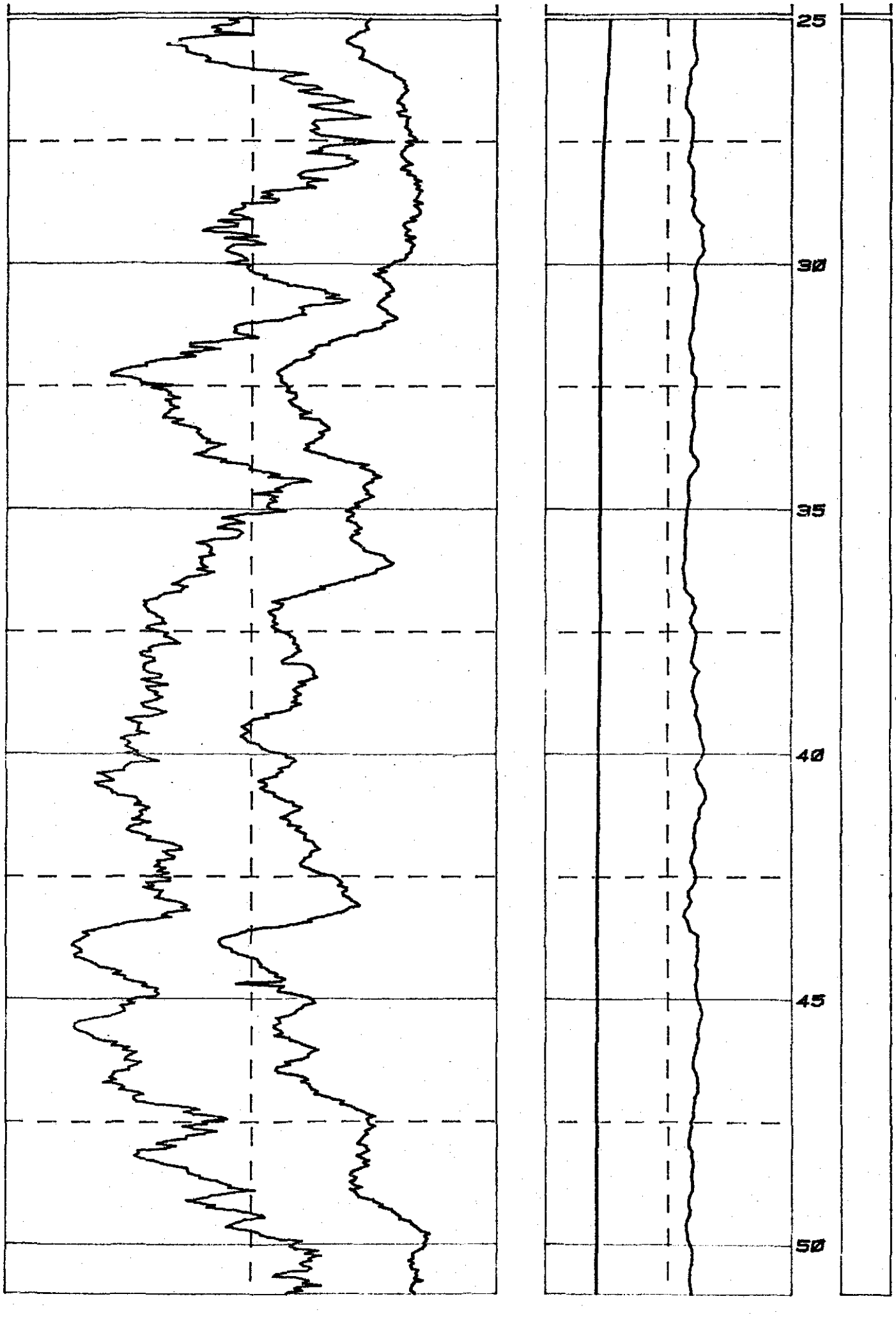
PAGE NO. 1

083

771402 BOREHOLE NO. R023

GAMMA (0-25 CPS)
L.S. DENSITY (1000-0 CPS)

RES (100-350 OHMS)
CALIPER (0-10INS)



MURDOCH GEOPHYSICS Corrected playback: LOG: R023

PAGE NO. 2

084

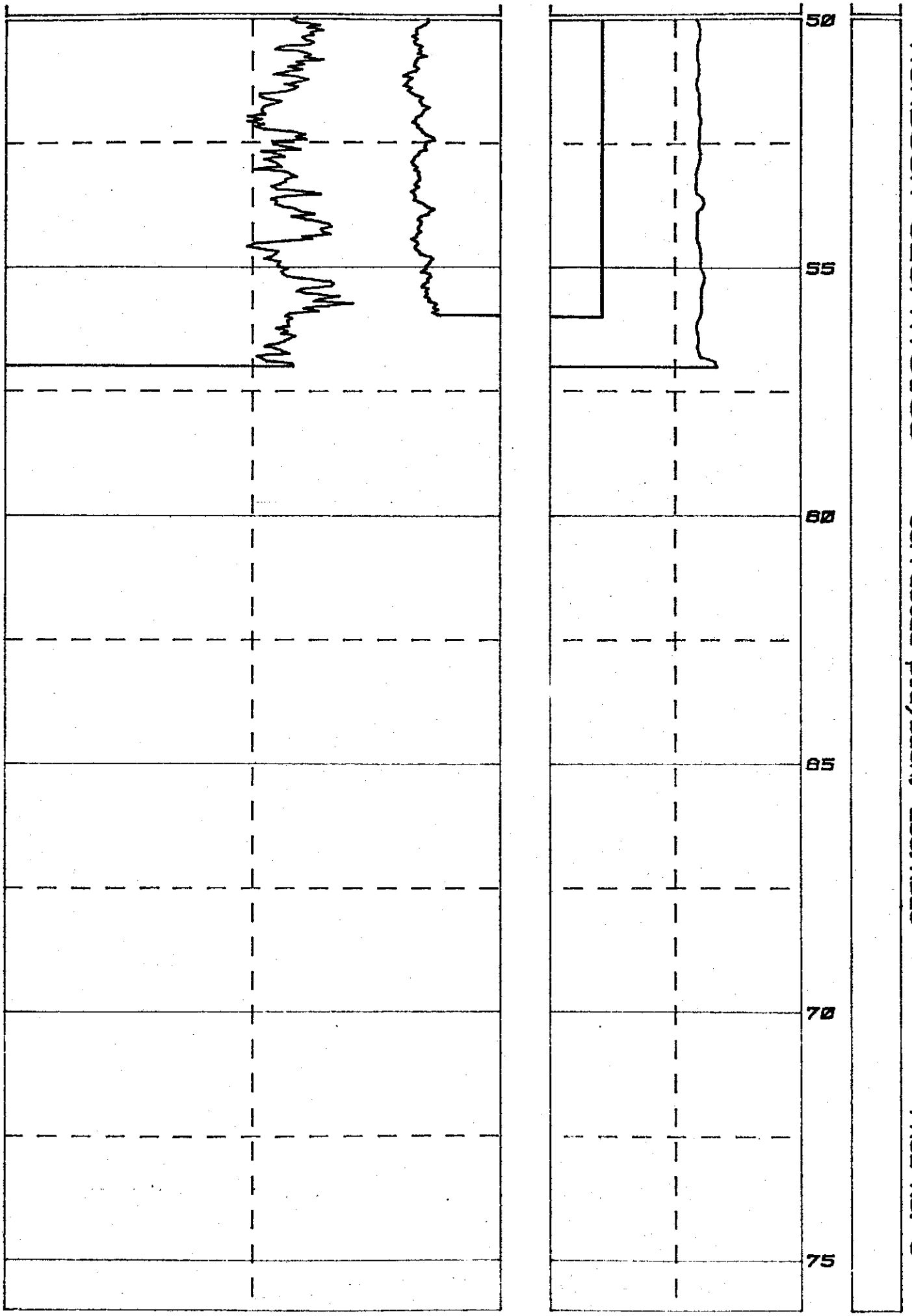
771403 BOREHOLE NO. R023

GAMMA (0-25 CPS)

L.S. DENSITY (1000-0 CPS)

RES (100-350 OHMS)

CALIPER (0-10INS)



MURDOCH GEOPHYSICS Corrected playback LOG: R023 PAGE NO. 3

085 771404

BOREHOLE: R024

CLIENT: C.S.R.

LOCATION: Westbury. Tasmania.

DATE LOGGED: 12-11-81 BY S. Morgan



EQUIPMENT DATA

LOG	Tape No./File	Recording Speed (m/min)	T.C. Sec.	Source	Borehole Position	Depth Logged
Resistivity (PR)		6	—	—	Free	0 m TO 74 m
Self Potential	—	—	—	—	Free	TO —
Nat. Gamma (γ)		6	2	—	Free	1m TO 74 m
γ-γ Density		6	1	Cs137	Sidewall	1m TO 74 m
Neutron		—	1	—	Sidewall	— TO —
Caliper		6	—	—	3-Arm	1m TO 74 m

BOREHOLE DATA

Date Drilled: 12-11-81 Tot. Depth Drilled (Driller): .....

Permanent Datum: G.L. Elevation of P.D.: .....

Casing: Type: ..... Depth: .....

Bit Sizes: 1 ..... From ..... to .....
2 ..... From ..... to .....

FLUID DATA: Nature: ..... S.G.: .....

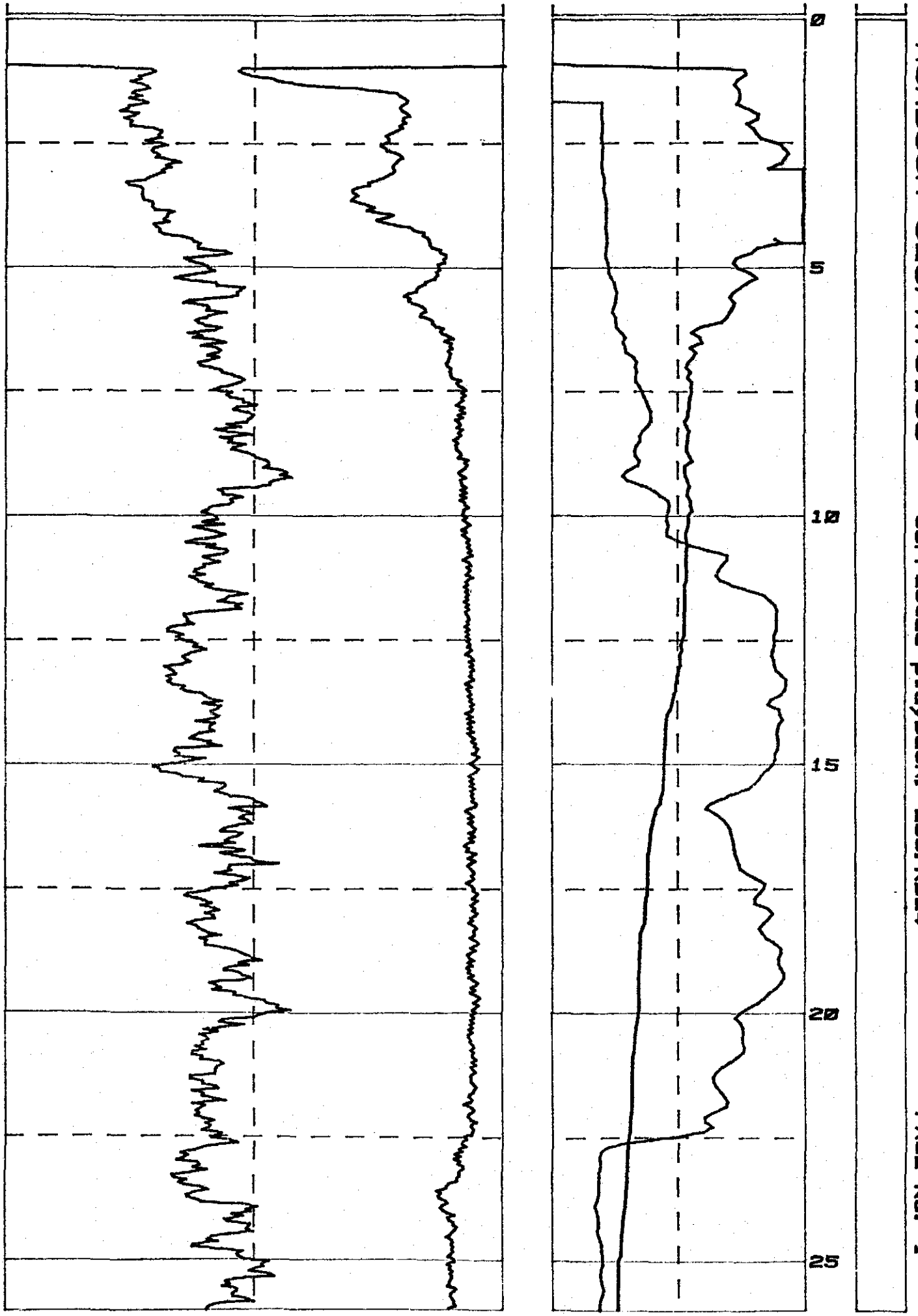
Viscosity: ..... Level: 1.7 metres

086

771405 BOREHOLE NO. R024

GAMMA (Ø-25 CPS)
L. S. DENSITY (1000-Ø CPS)

RES (Ø-1000 OHMS)
CALIPER (Ø-10INS)



MURDOCH GEOPHYSICS Corrected playback LOG: R024 PAGE NO. 1

087

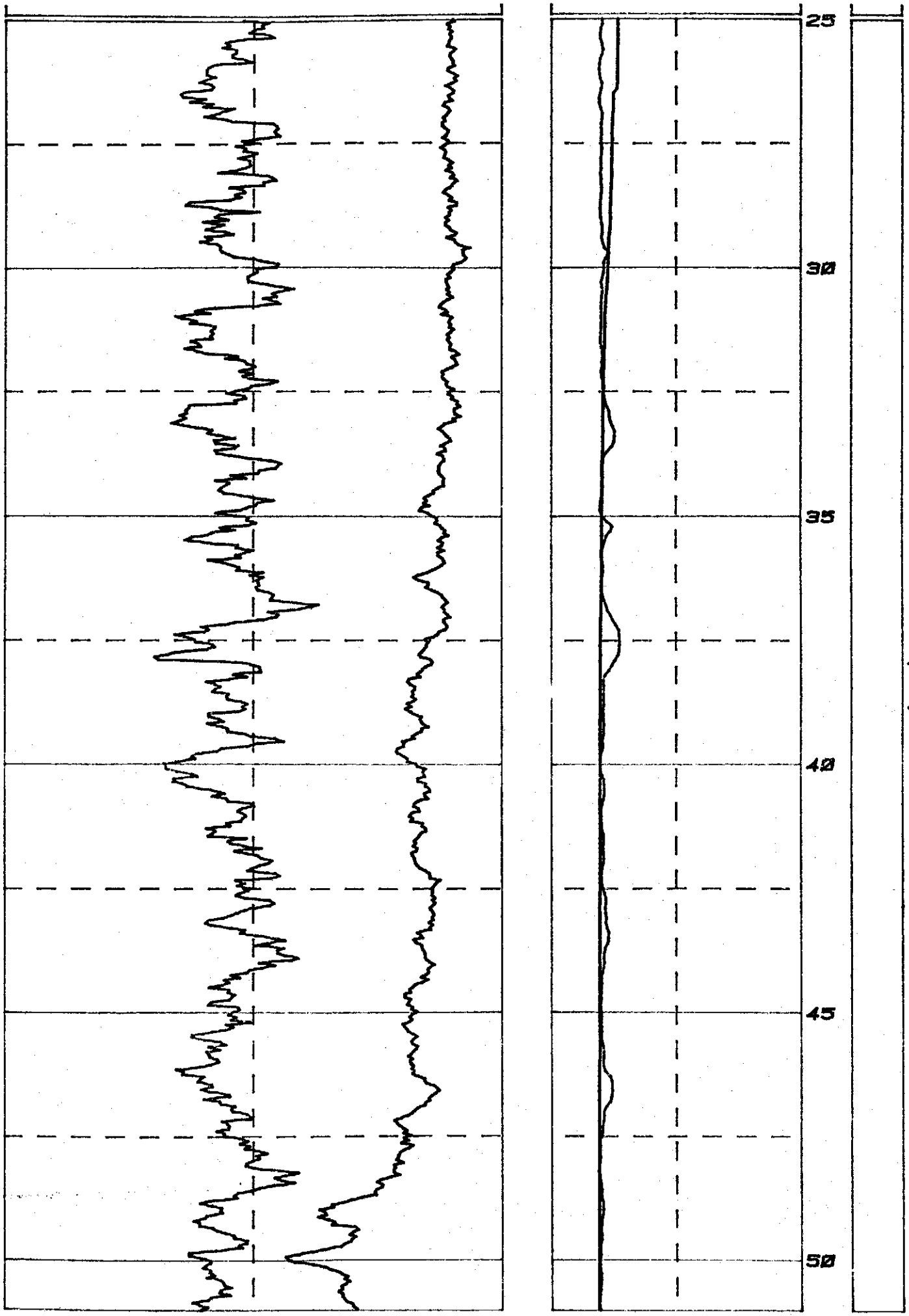
771406 BOREHOLE NO. R024

GAMMA (0-25 CPS)

L.S. DENSITY (1000-0 CPS)

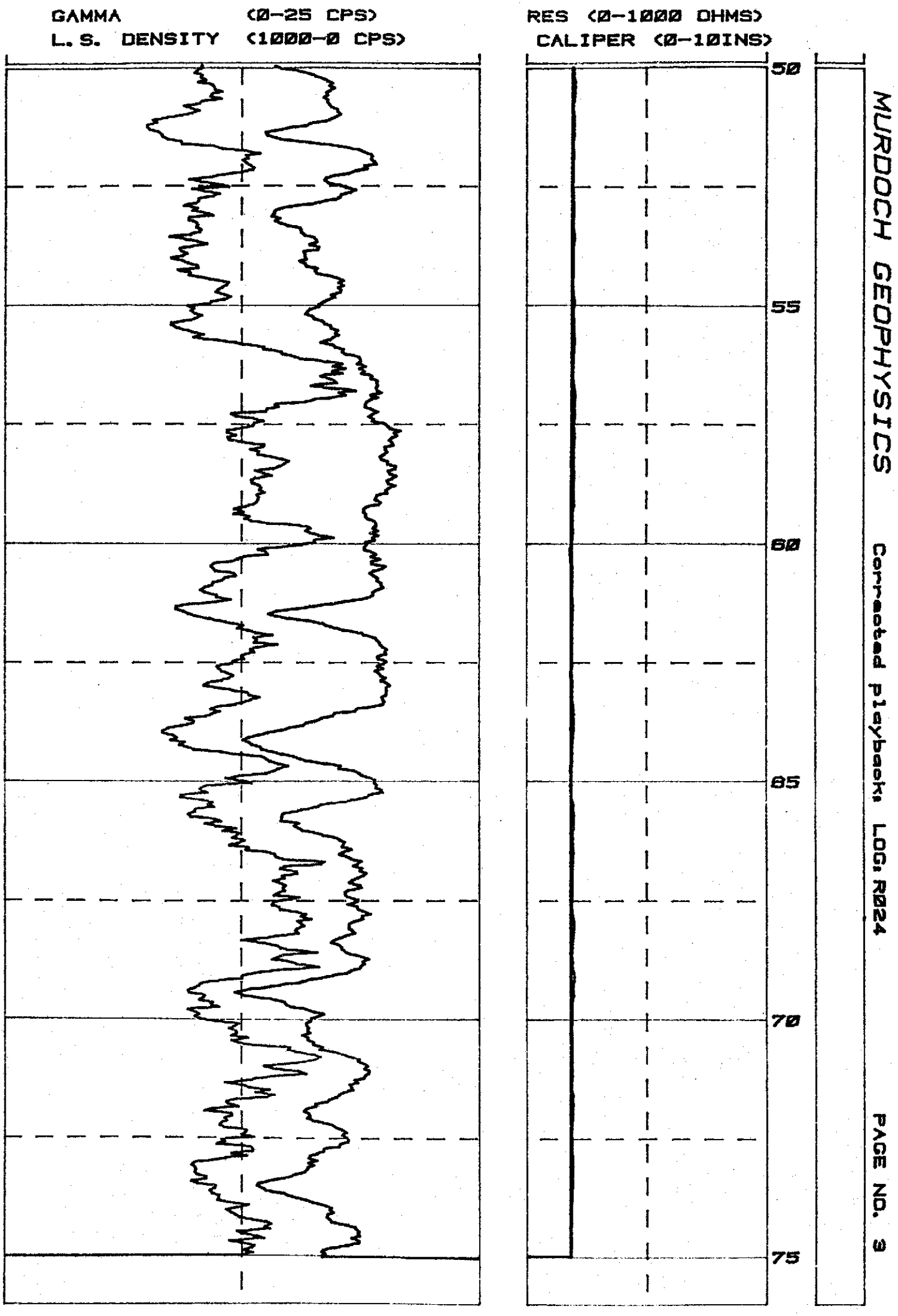
RES (0-1000 OHMS)

CALIPER (0-10INS)



MURDOCH GEOPHYSICS Corrected playback: LOG: R024 PAGE NO. 2

771407 BOREHOLE NO. R024



089 771408

BOREHOLE : R025

CLIENT : C.S.R.

LOCATION: Westbury. Tasmania.

DATE LOGGED: 12-11-81 BY S. Morgan



EQUIPMENT DATA

LOG	Tape No./File	Recording Speed (m/min)	T.C. Sec.	Source	Borehole Position	Depth Logged
Resistivity (PR)		6	—	—	Free	0 m TO — m
Self Potential	—	—	—	—	Free	— TO —
Nat. Gamma (γ)		6	2	—	Free	1m TO 76 m
γ-γ Density		6	1	Cs137	Sidewall	1m TO 75 m
Neutron		—	1	—	Sidewall	— TO —
Caliper		6	—	—	3-Arm	1m TO 75 m

BOREHOLE DATA

Date Drilled: 12-11-81 Tot. Depth Drilled (Driller) : .....

Permanent Datum: G.L. Elevation of P.D.: .....

Casing: Type: ..... Depth: .....

Bit Sizes: 1 ..... From ..... to .....
2 ..... From ..... to .....

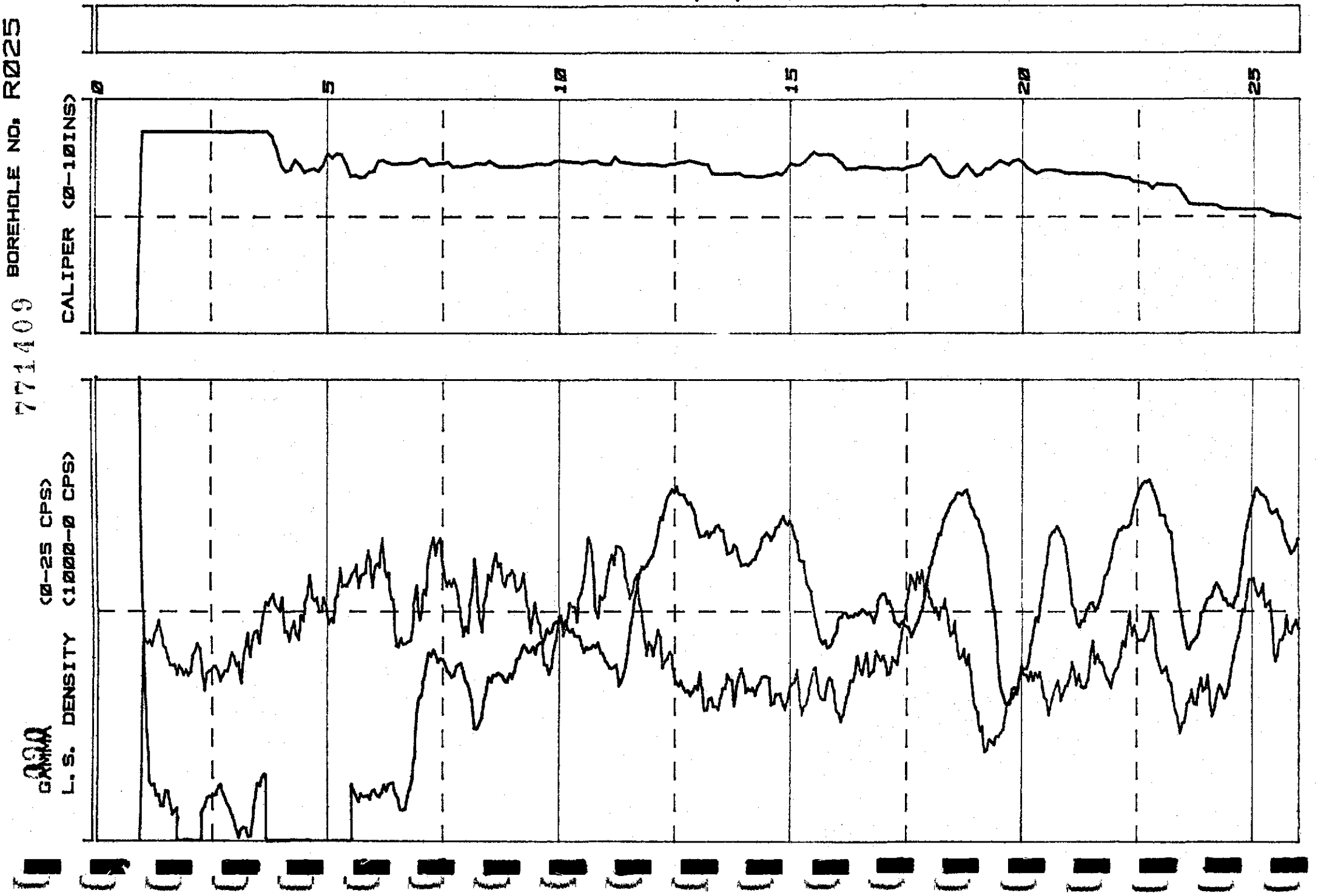
FLUID DATA: Nature: ..... S.G.: .....

Viscosity: ..... Level: .....

MURDOCH GEOPHYSICS Corrected playback: LOG: R025 PAGE NO. 1

BOREHOLE NO: R025

77409



091

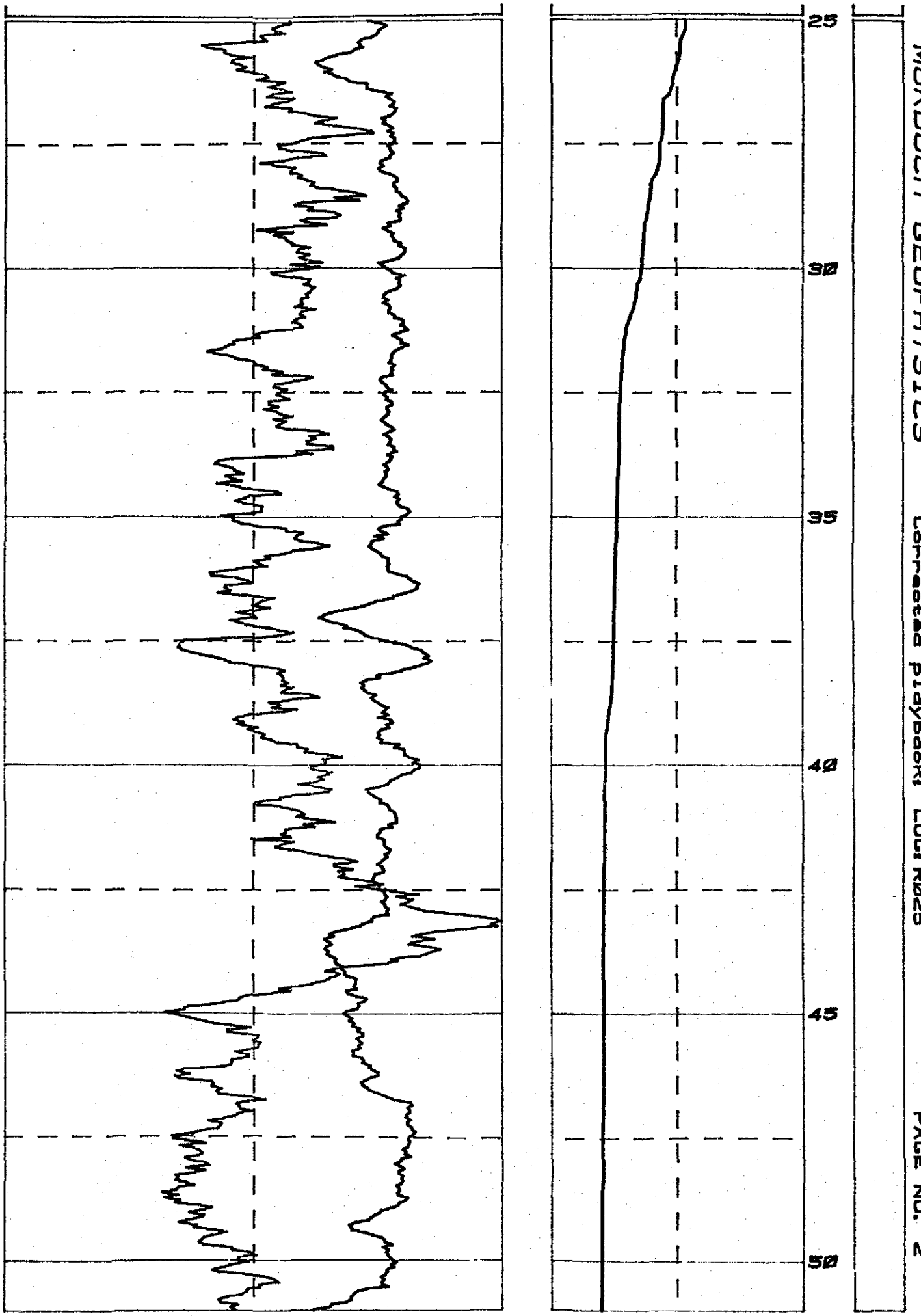
771410

BOREHOLE NO: R025

GAMMA (0-25 CPS)

L.S. DENSITY (1000-0 CPS)

CALIPER (0-10INS)



MURDOCH GEOPHYSICS Corrected Playback: LOG: R025 PAGE NO. 2

092

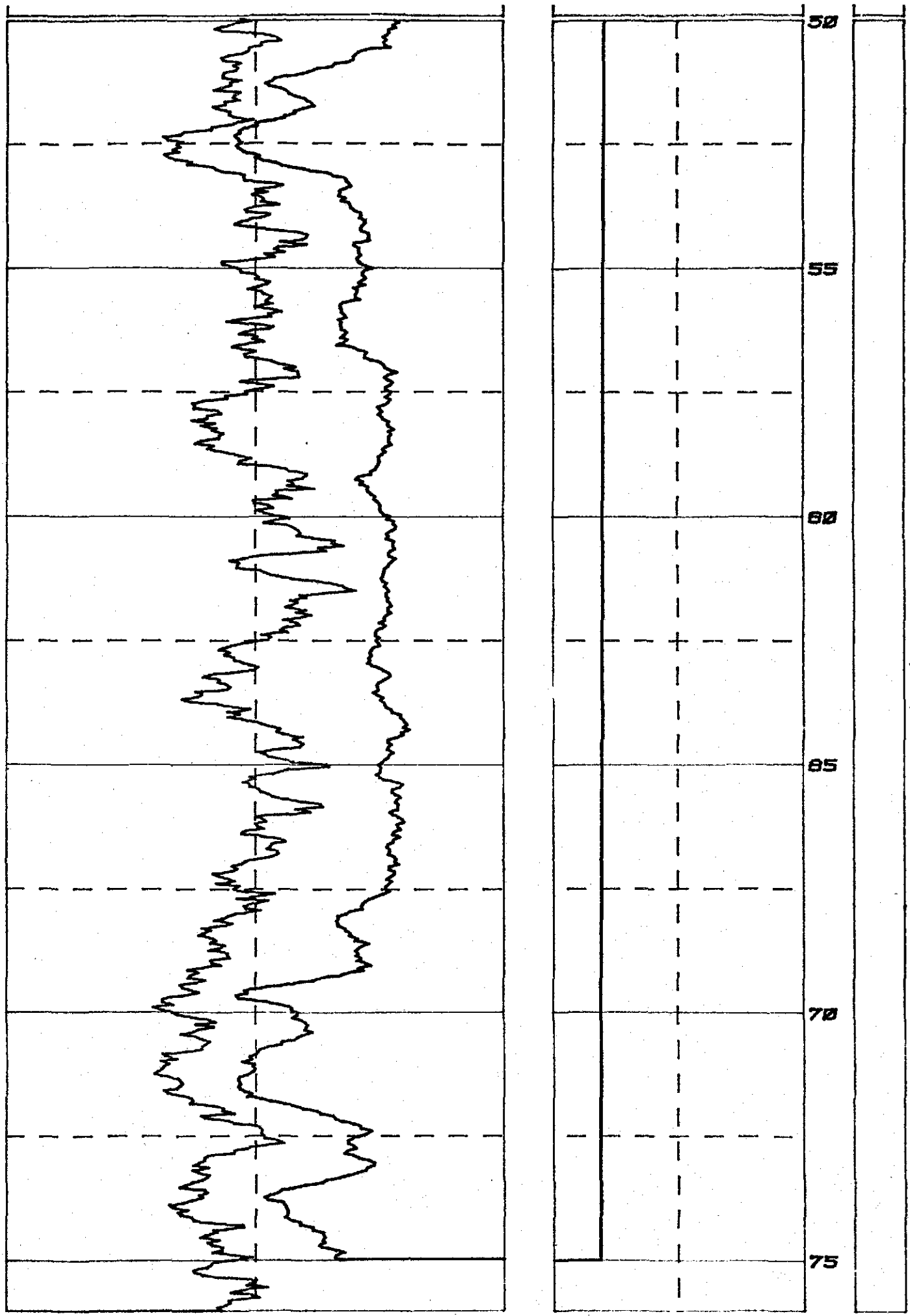
771411

BOREHOLE No. R025

GAMMA (0-25 CPS)

L.S. DENSITY (1000-0 CPS)

CALIPER (0-10INS)



MURDOCH GEOPHYSICS

Corrected playback: LOG: R025

PAGE NO. 3

093 771412

BOREHOLE: R026



CLIENT: C.S.R.

LOCATION: Westbury. Tasmania.

DATE LOGGED: 14-11-81 BY S. Morgan

EQUIPMENT DATA

LOG	Tape No./File	Recording Speed (m/min)	T.C. Sec.	Source	Borehole Position	Depth Logged
Resistivity (PR)		6	—	—	Free	0 m TO 76 m
Self Potential	—	—	—	—	Free	— TO —
Nat. Gamma (γ)		6	2	—	Free	1m TO 76 m
γ-γ Density		6	1	Cs137	Sidewall	1m TO — m
Neutron		—	1	—	Sidewall	— TO —
Caliper		6	—	—	3-Arm	1m TO — m

BOREHOLE DATA

HOLE COLLAPSED AFTER GAMMA

Date Drilled: 14-11-81 Tot. Depth Drilled (Driller): .....

Permanent Datum: G.L. Elevation of P.D.: .....

Casing: Type: ..... Depth: .....

Bit Sizes: 1 ..... From ..... to .....
2 ..... From ..... to .....

FLUID DATA: Nature: ..... S.G.: .....

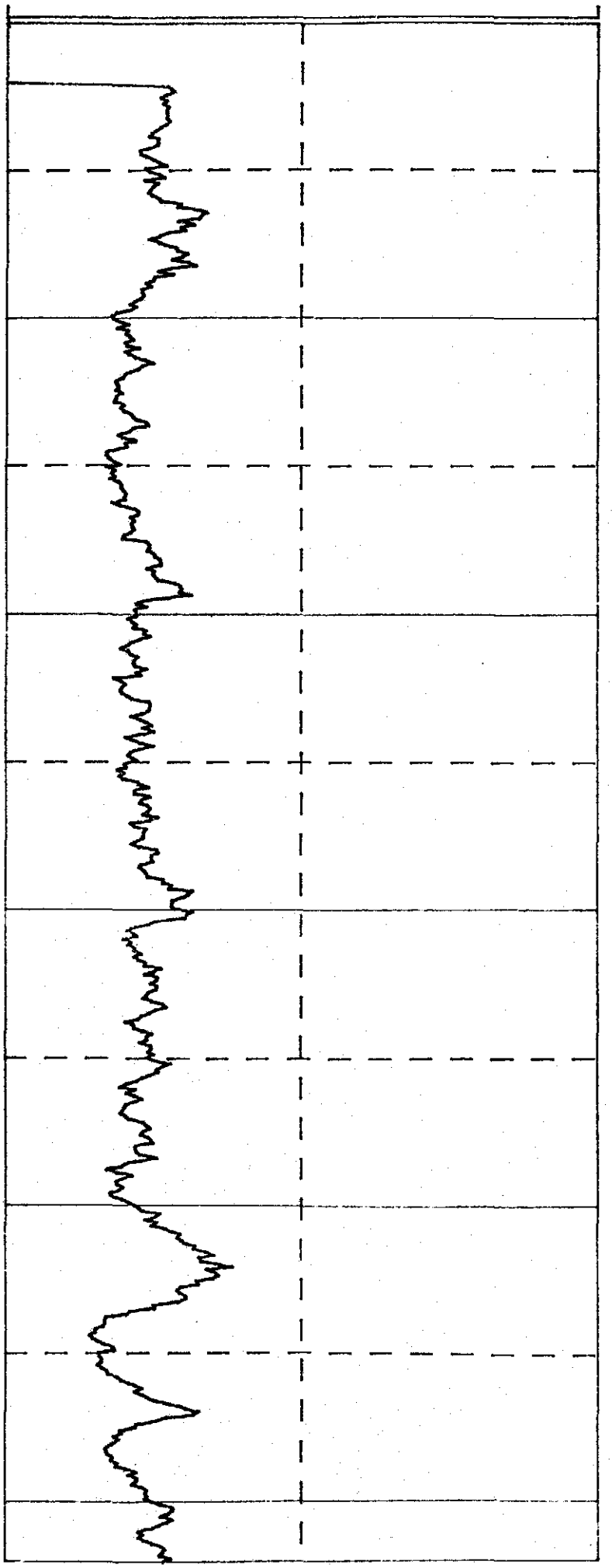
Viscosity: ..... Level: 7.4 metres

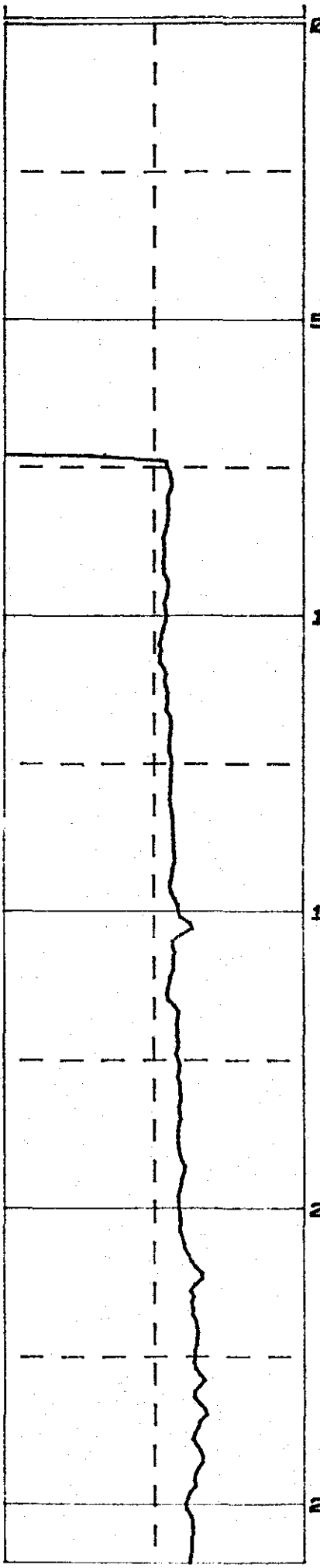
094

GAMMA (0-25 CPS)

771413 BOREHOLE NO. R026

RES (100-350 OHMS)





MURDOCH GEOPHYSICS Corrected Playback LOG: R028 PAGE NO. 1

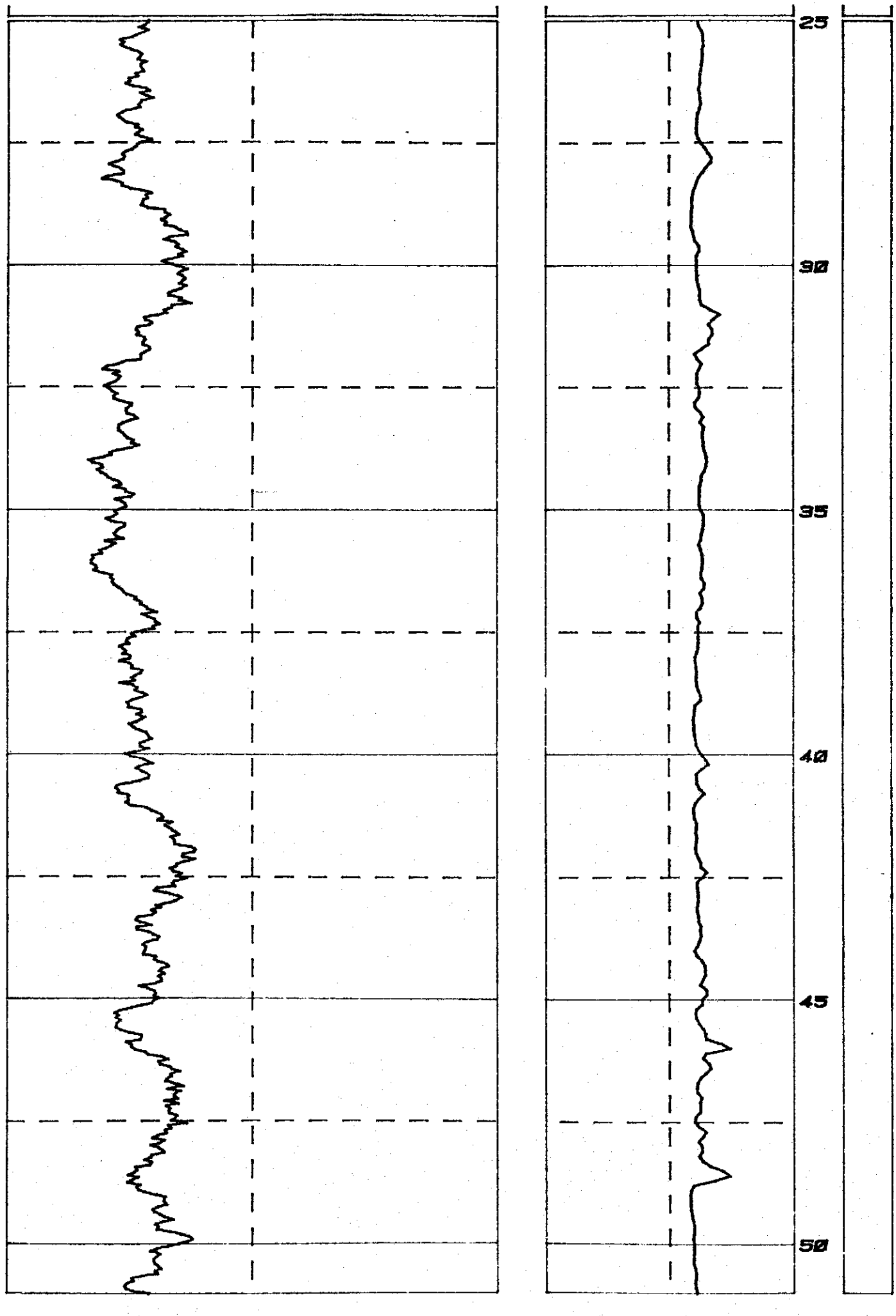
095

771414

BOREHOLE NO. R026

GAMMA (0-25 CPS)

RES (100-350 OHMS)



MURDOCH GEOPHYSICS Corrected playback LOG: R026

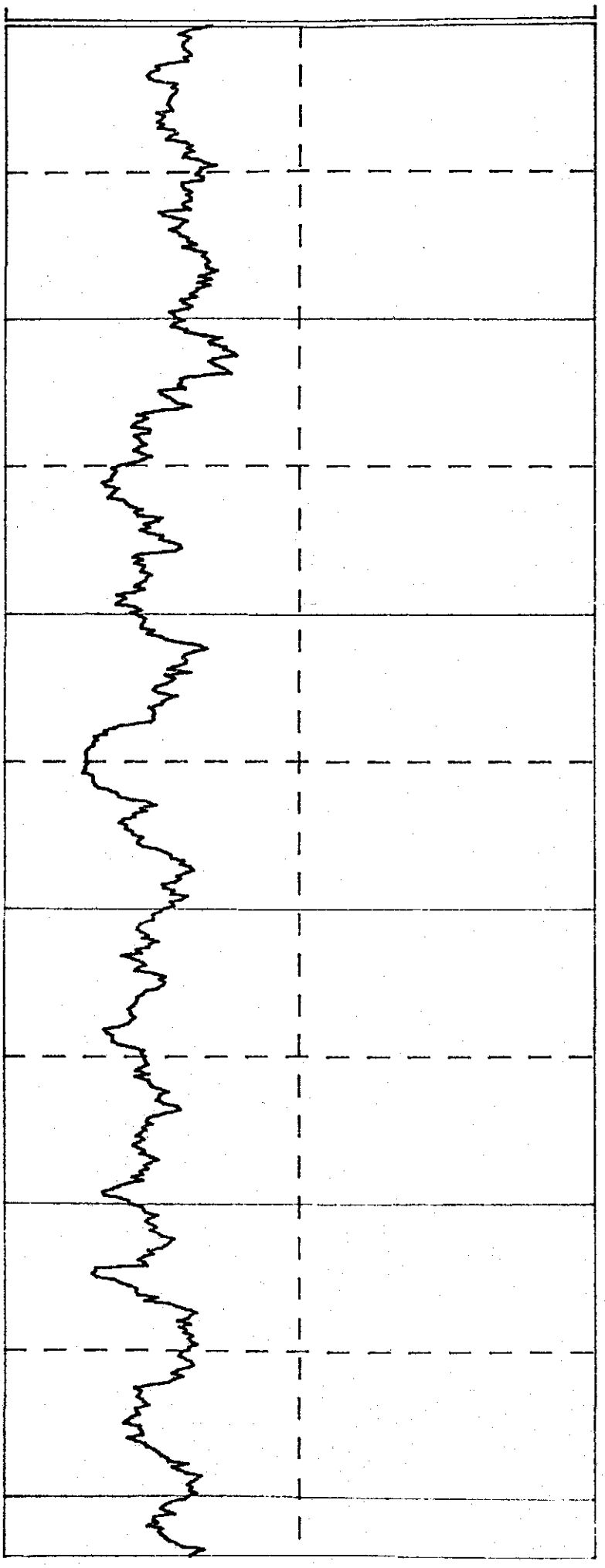
PAGE NO. 2

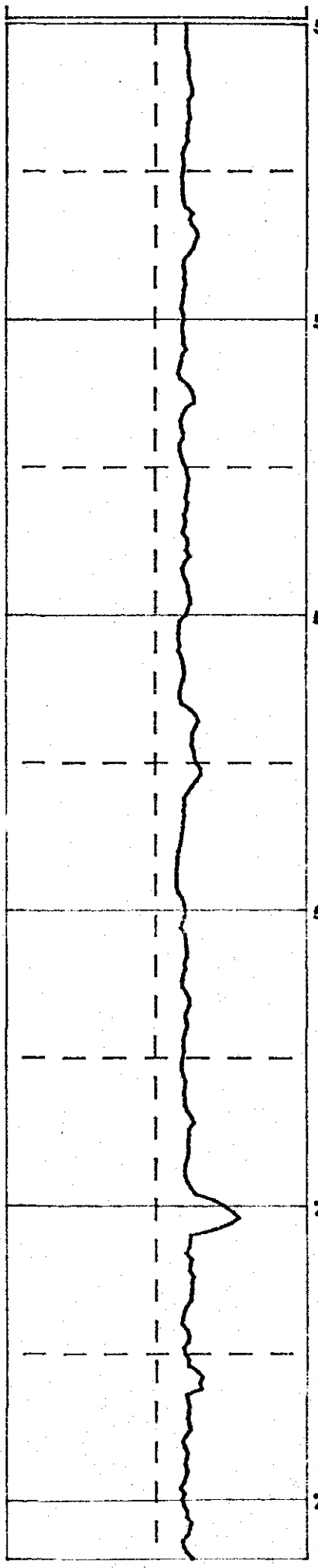
096

771415 BOREHOLE NO. R026

GAMMA (0-25 CPS)

RES (100-350 OHMS)





MURDOCH GEOPHYSICS Corrected playback: LOG: R026

PAGE NO. 3

097 771416

BOREHOLE: R027

CLIENT: C.S.R.

LOCATION: Westbury. Tasmania.

DATE LOGGED: 16-11-81 BY S. Morgan



EQUIPMENT DATA

LOG	Tape No./File	Recording Speed (m/min)	T.C. Sec.	Source	Borehole Position	Depth Logged
Resistivity (PR)		6	—	—	Free	0 m TO 31 m
Self Potential	—	—	—	—	Free	TO —
Nat. Gamma (γ)		6	2	—	Free	1m TO 31 m
γ-γ Density		6	1	Cs137	Sidewall	1m TO 30 m
Neutron		—	1	—	Sidewall	— TO —
Caliper		6	—	—	3-Arm	1m TO 30 m

BOREHOLE DATA

Date Drilled: 16-11-81 Tot. Depth Drilled (Driller): .....

Permanent Datum: G.L. Elevation of P.D.: .....

Casing: Type: ..... Depth: .....

Bit Sizes: 1 ..... From ..... to .....
2 ..... From ..... to .....

FLUID DATA: Nature: ..... S.G.: .....

Viscosity: ..... Level: 41 metres

098

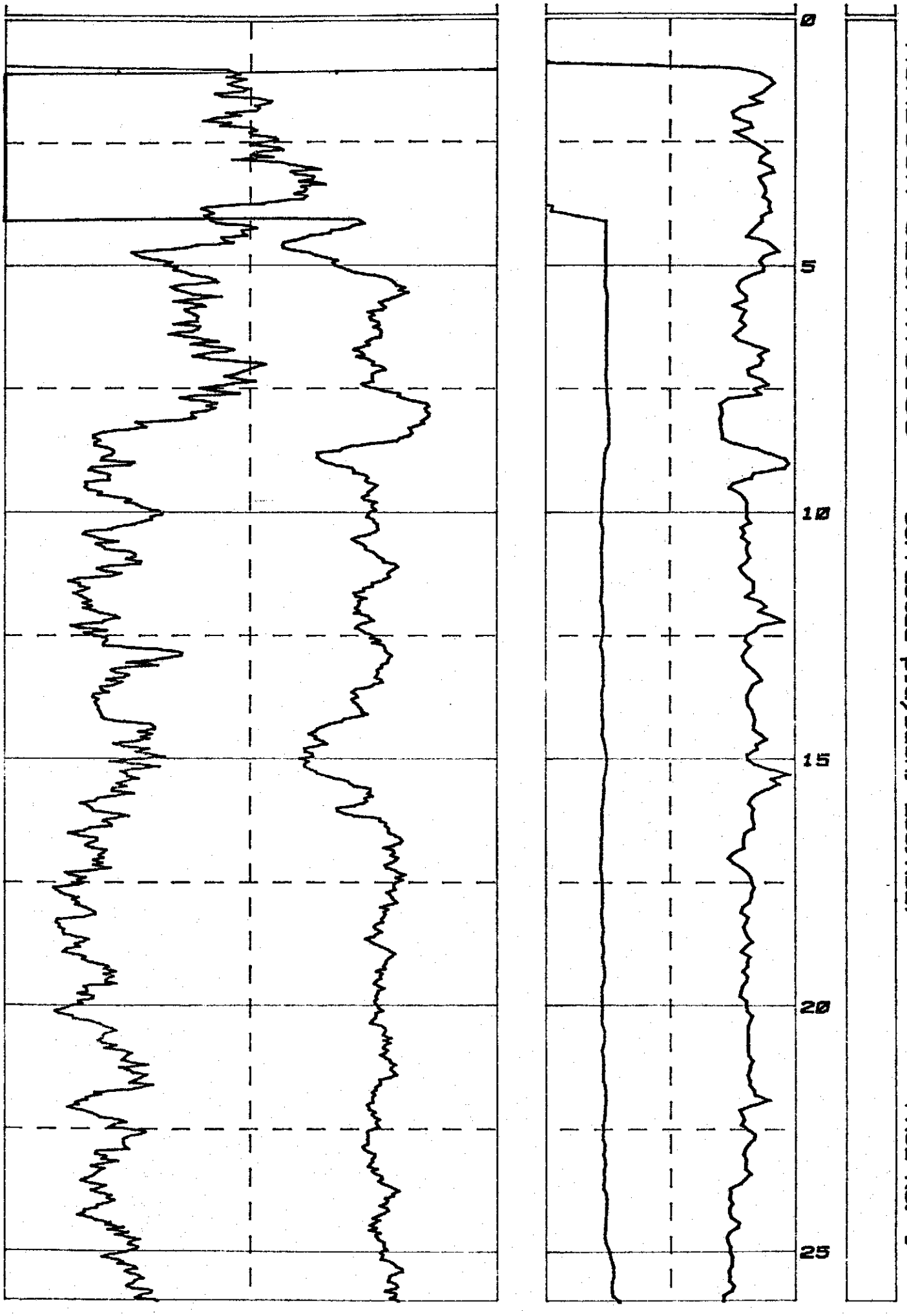
771417 BOREHOLE NO. R027

GAMMA (0-25 CPS)

L.S. DENSITY (1000-0 CPS)

RES (0-500 OHMS)

CALIPER (0-10INS)

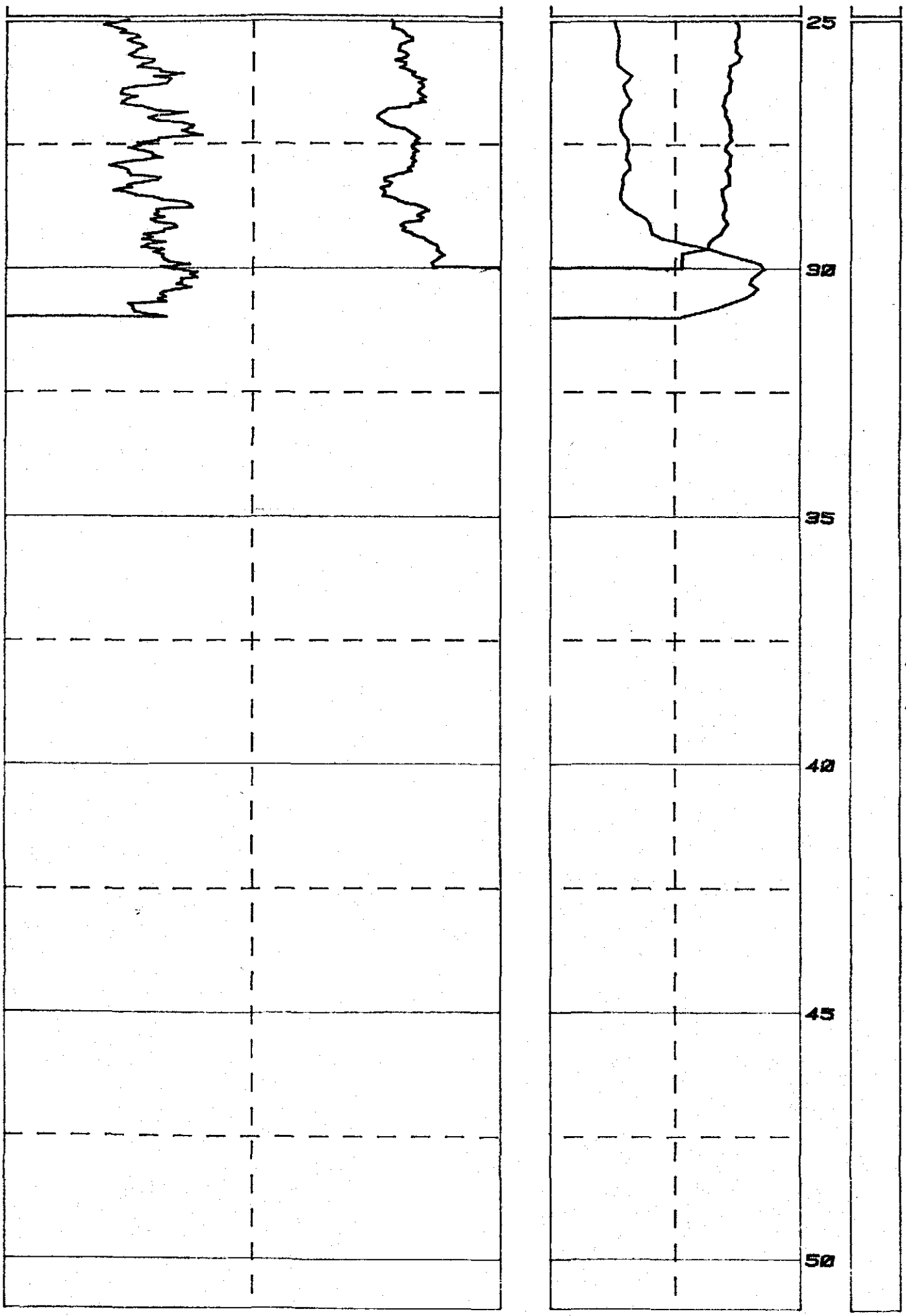


MURDOCH GEOPHYSICS Corrected Playback LOG: R027 PAGE NO. 1

099 771418 BOREHOLE NO. R027

GAMMA (0-25 CPS)
L.S. DENSITY (1000-0 CPS)

RES (0-500 OHMS)
CALIPER (0-10INS)

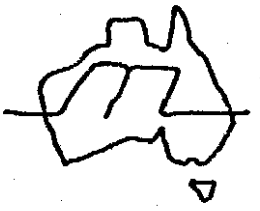


MURDOCH GEOPHYSICS Corrected playback LOG: R027 PAGE NO. 2

77141

100

BOREHOLE: R028



CLIENT: C.S.R.

LOCATION: Westbury. Tasmania.

DATE LOGGED: 22-11-81 BY S. Morgan

EQUIPMENT DATA

LOG	Tape No./File	Recording Speed (m/min)	T.C. Sec.	Source	Borehole Position	Depth Logged
Resistivity (PR)		6	—	—	Free	0 m TO 66 m
Self Potential	—	—	—	—	Free	TO —
Nat. Gamma (γ)		6	2	—	Free	1m TO 66 m
γ-γ Density		6	1	Cs137	Sidewall	1m TO 66 m
Neutron		—	1	—	Sidewall	— TO —
Caliper		6	—	—	3-Arm	1m TO 66 m

BOREHOLE DATA

Date Drilled: 22-11-81 Tot. Depth Drilled (Driller): .....

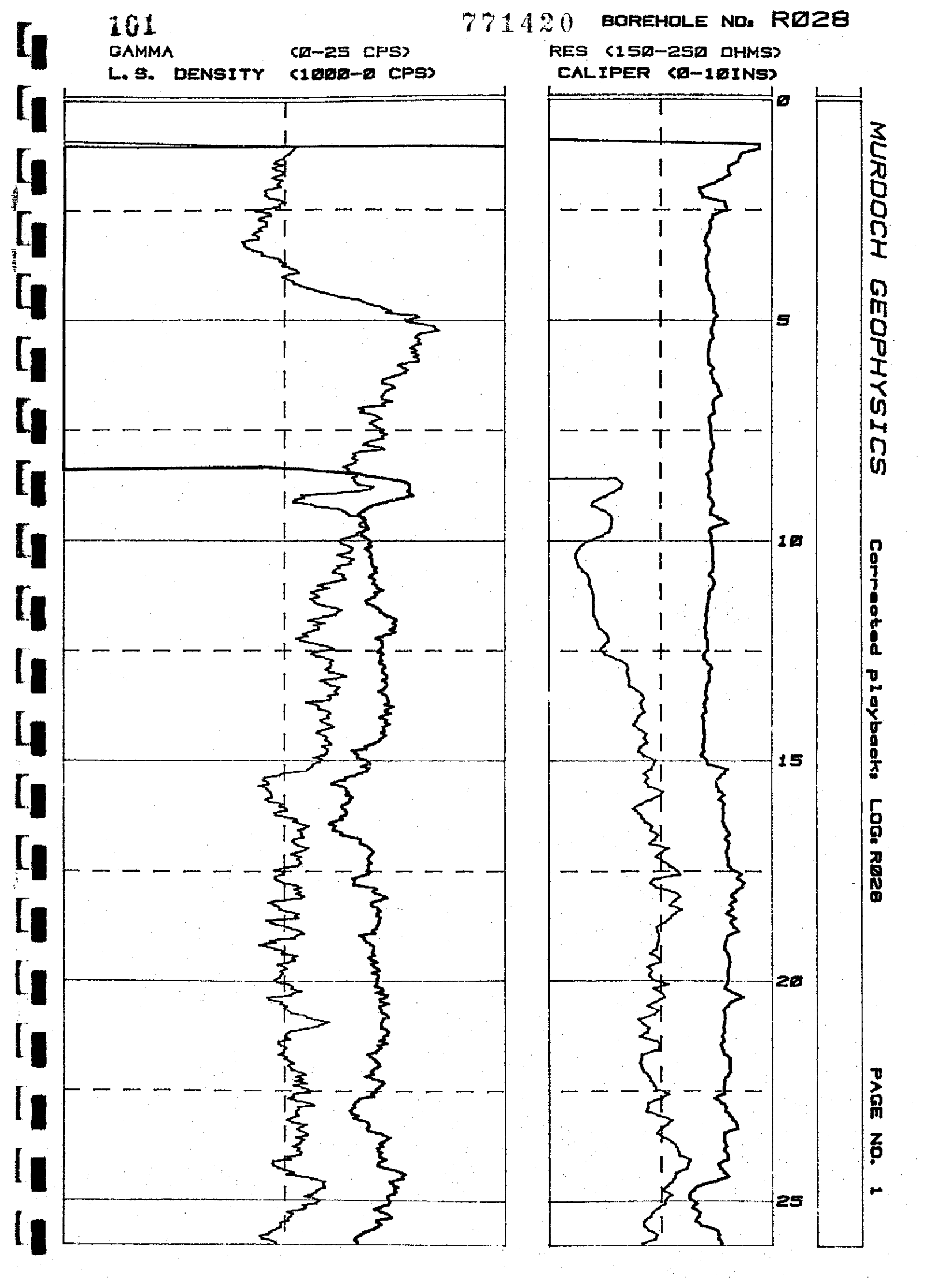
Permanent Datum: G.L. Elevation of P.D.: .....

Casing: Type: ..... Depth: .....

Bit Sizes: 1 ..... From ..... to .....
2 ..... From ..... to .....

FLUID DATA: Nature: ..... S.G.: .....

Viscosity: ..... Level: 8.6 metres


101
771420
BOREHOLE NO: R028
GAMMA (0-25 CPS)
L.S. DENSITY (1000-0 CPS)
RES (150-250 OHMS)
CALIPER (0-10INS)
0
5
10
15
20
25
MURDOCH GEOPHYSICS
Corrected playback LOG: R028
PAGE NO. 1

102

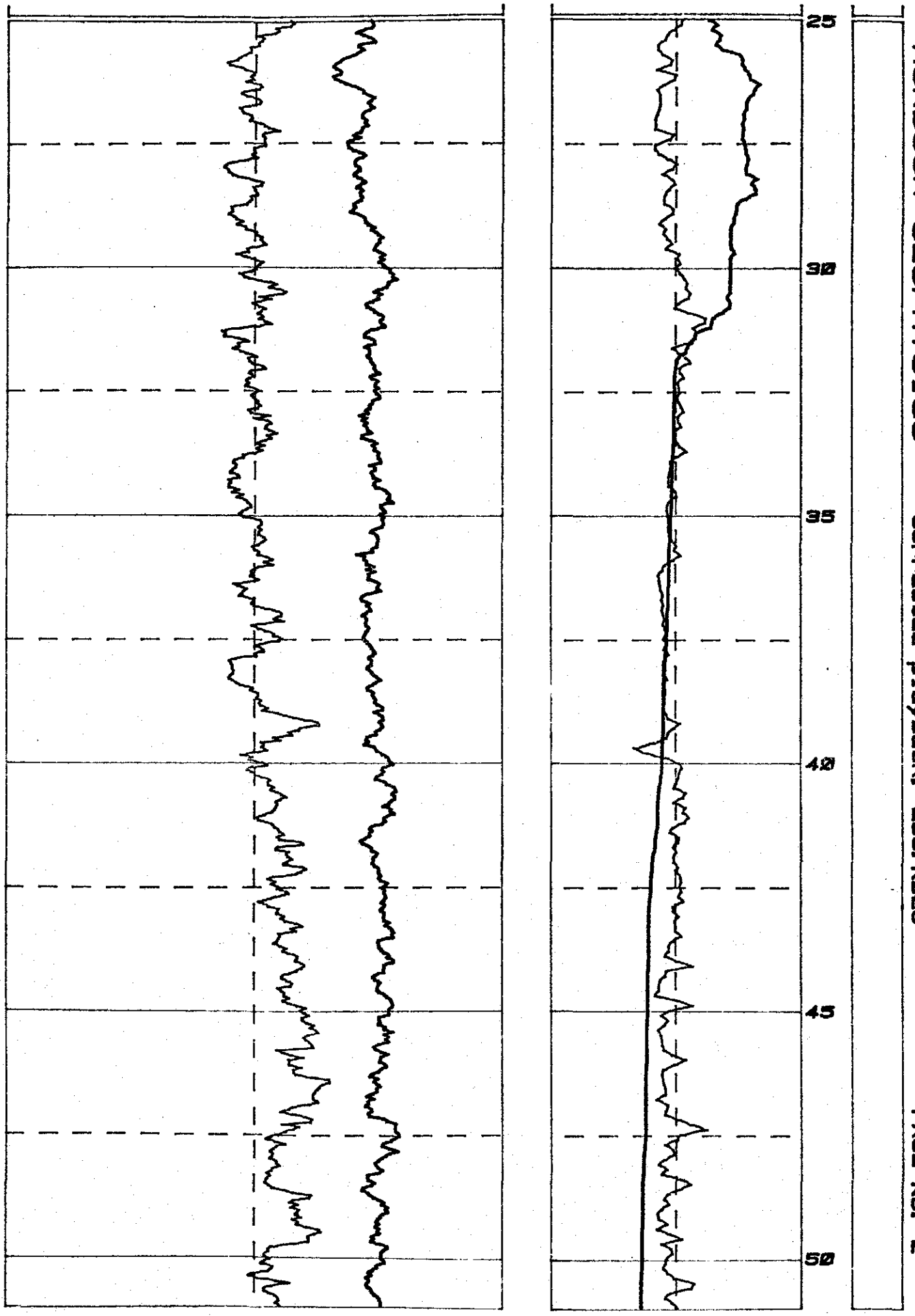
771421 BOREHOLE NO. R028

GAMMA (0-25 CPS)

L.S. DENSITY (1000-0 CPS)

RES (150-250 OHMS)

CALIPER (0-10INS)



MURDOCH GEOPHYSICS Corrected Playback LOG: R028 PAGE NO. 2

103

771424

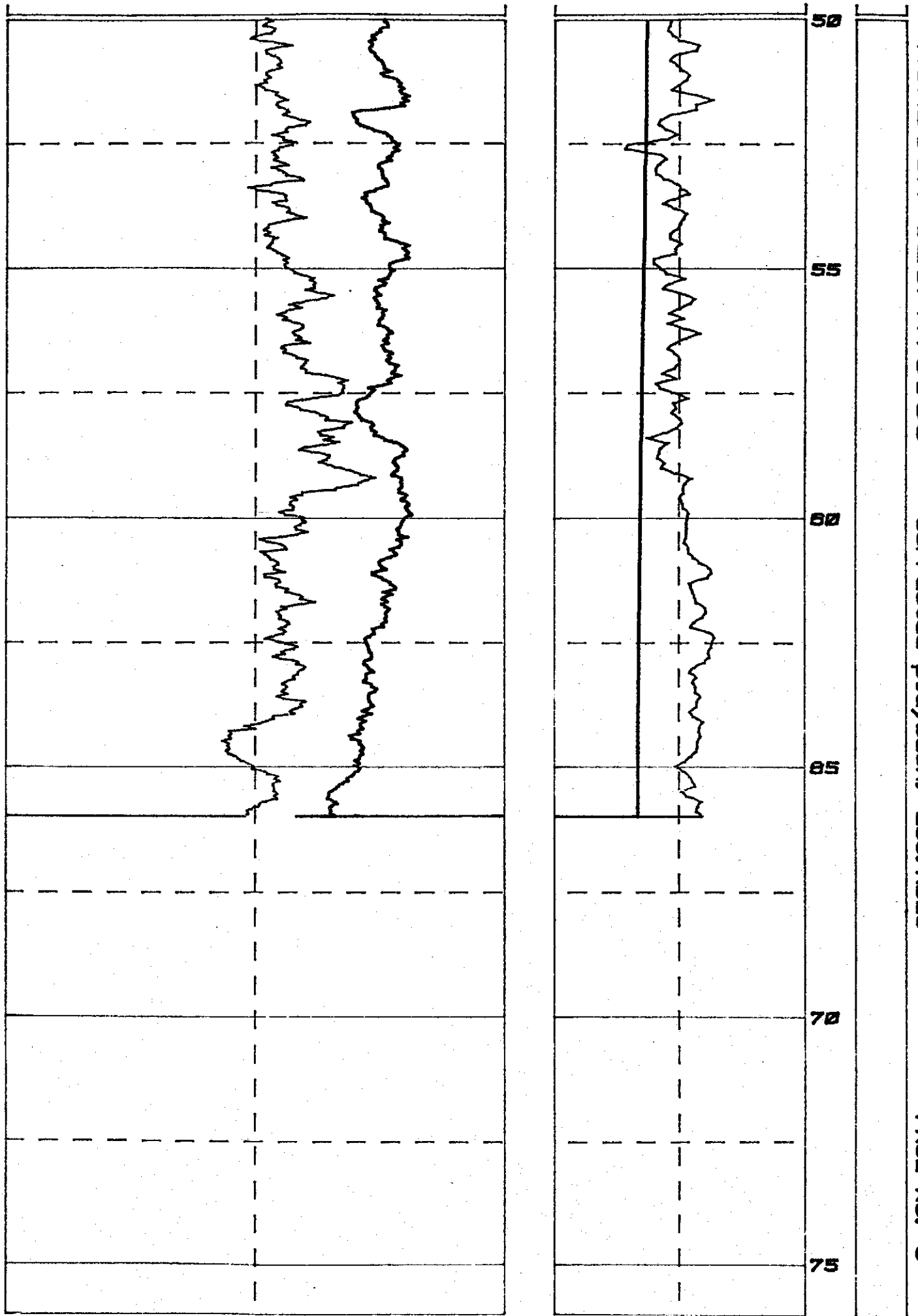
BOREHOLE NO. R028

GAMMA (0-25 CPS)

L.S. DENSITY (1000-0 CPS)

RES (150-250 OHMS)

CALIPER (0-10INS)



MURDOCH GEOPHYSICS

Corrected playback: LOG: R028

PAGE NO. 3

104

771423



BOREHOLE: R029

CLIENT: C.S.R.

LOCATION: Westbury. Tasmania.

DATE LOGGED: 22-11-81 BY S. Morgan

EQUIPMENT DATA

LOG	Tape No./File	Recording Speed (m/min)	T.C. Sec.	Source	Borehole Position	Depth Logged
Resistivity (PR)		6	—	—	Free	0 m TO 14 m
Self Potential	—	—	—	—	Free	TO —
Nat. Gamma (γ)		6	2	—	Free	1m TO 14 m
γ-γ Density		6	1	Cs137	Sidewall	1m TO — m
Neutron		—	1	—	Sidewall	— TO —
Caliper		6	—	—	3-Arm	1m TO — m

BOREHOLE DATA

Date Drilled: 22-11-81 Tot. Depth Drilled (Driller): .....

Permanent Datum: G.L. HOLE CAVED Elevation of P.D.: .....

Casing: Type: ..... Depth: .....

Bit Sizes: 1 ..... From ..... to .....
2 ..... From ..... to .....

FLUID DATA: Nature: ..... S.G.: .....

Viscosity: ..... Level: 2.7 metres

105

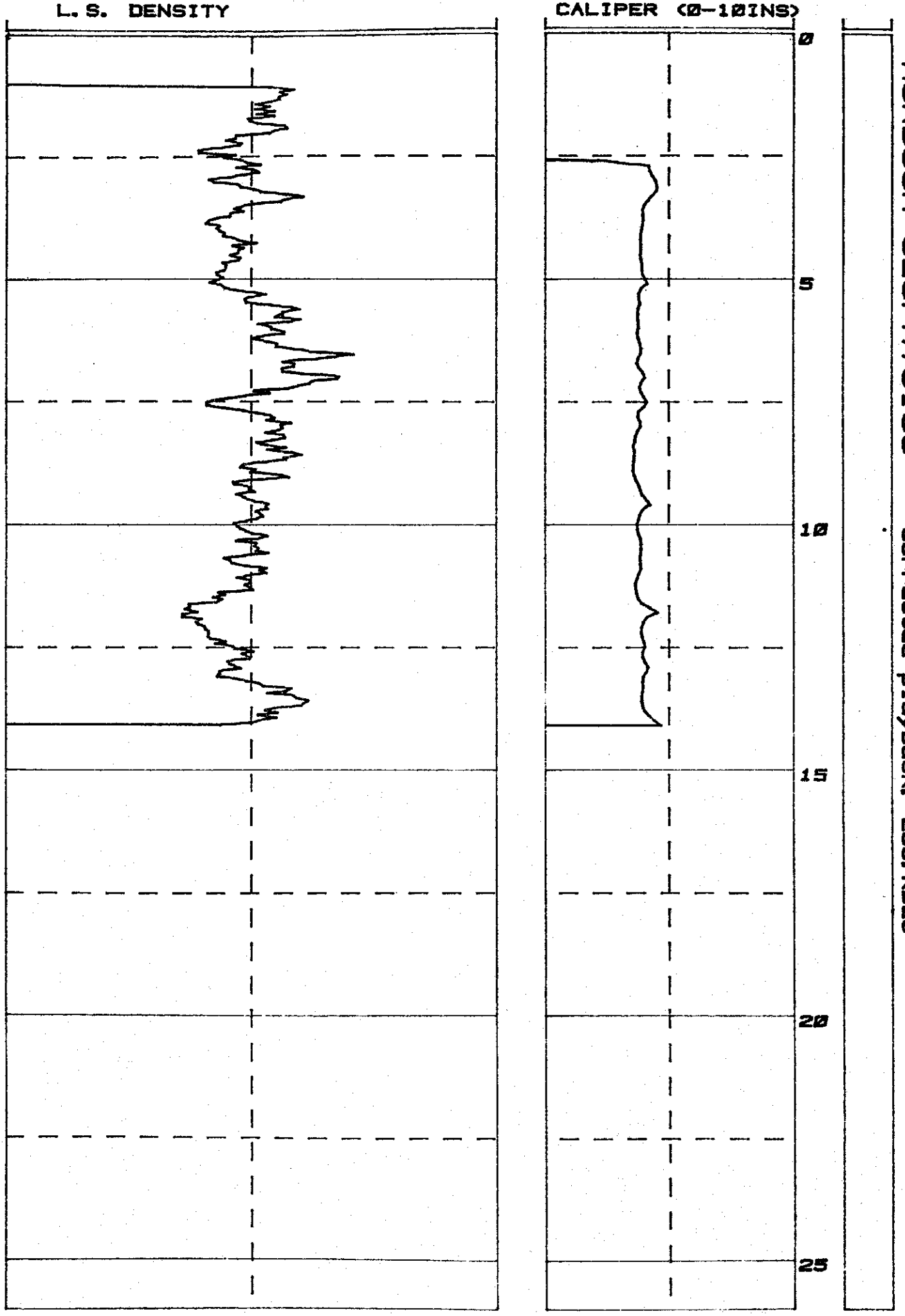
771424 BOREHOLE NO. R029

GAMMA (0-25 CPS)

L.S. DENSITY

RES (70-120 OHMS)

CALIPER (0-10INS)



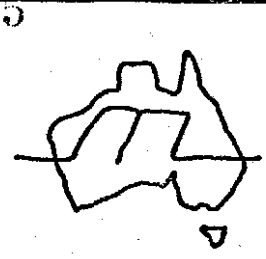
MURDOCH GEOPHYSICS

Corrected playback: LOG: R029

771425

106

BOREHOLE : R030



CLIENT : C.S.R.

LOCATION: Westbury. Tasmania.

DATE LOGGED: 23-11-81 BY S. Morgan

EQUIPMENT DATA

LOG	Tape No./File	Recording Speed (m/min)	T.C. Sec.	Source	Borehole Position	Depth Logged
Resistivity (PR)		6	—	—	Free	0 m TO 73 m
Self Potential	—	—	—	—	Free	TO —
Nat. Gamma (γ)		6	2	—	Free	1m TO 72 m
γ-γ Density		6	1	Cs137	Sidewall	1m TO 72 m
Neutron		—	1	—	Sidewall	— TO —
Caliper		6	—	—	3-Arm	1m TO 72 m

BOREHOLE DATA

Date Drilled: 23-11-81 Tot. Depth Drilled (Driller): .....

Permanent Datum: GL Elevation of P.D.: .....

Casing: Type: ..... Depth: .....

Bit Sizes: 1 ..... From ..... to .....
2 ..... From ..... to .....

FLUID DATA: Nature: ..... S.G.: .....

Viscosity: ..... Level: 13.4 metres

771426

107

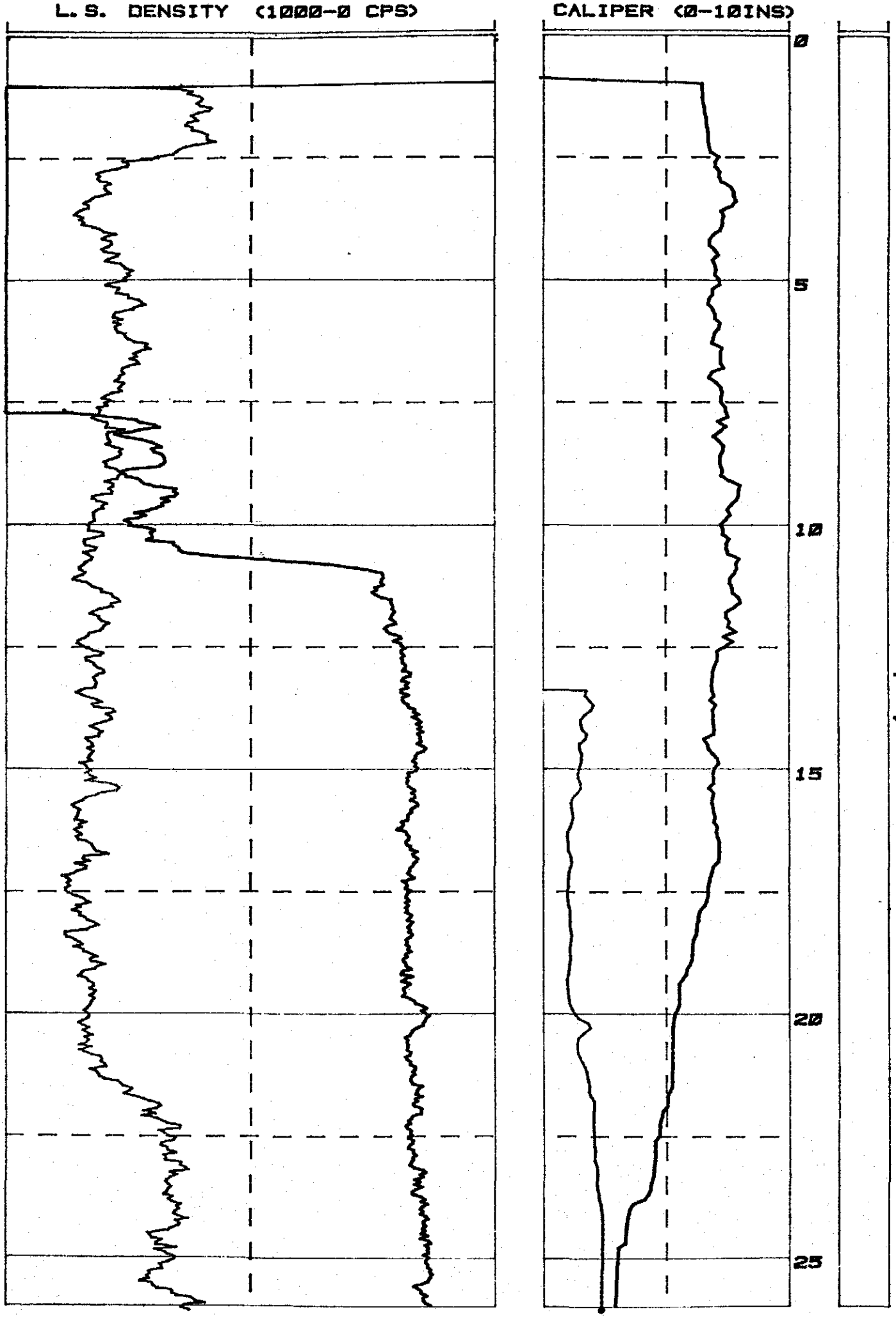
BOREHOLE NO. R030

GAMMA (0-50 CPS)

L.S. DENSITY (1000-0 CPS)

RES (400-850 OHMS)

CALIPER (0-10INS)



MURDOCH GEOPHYSICS

Corrected playback: LOG: R030

PAGE NO. 1

108

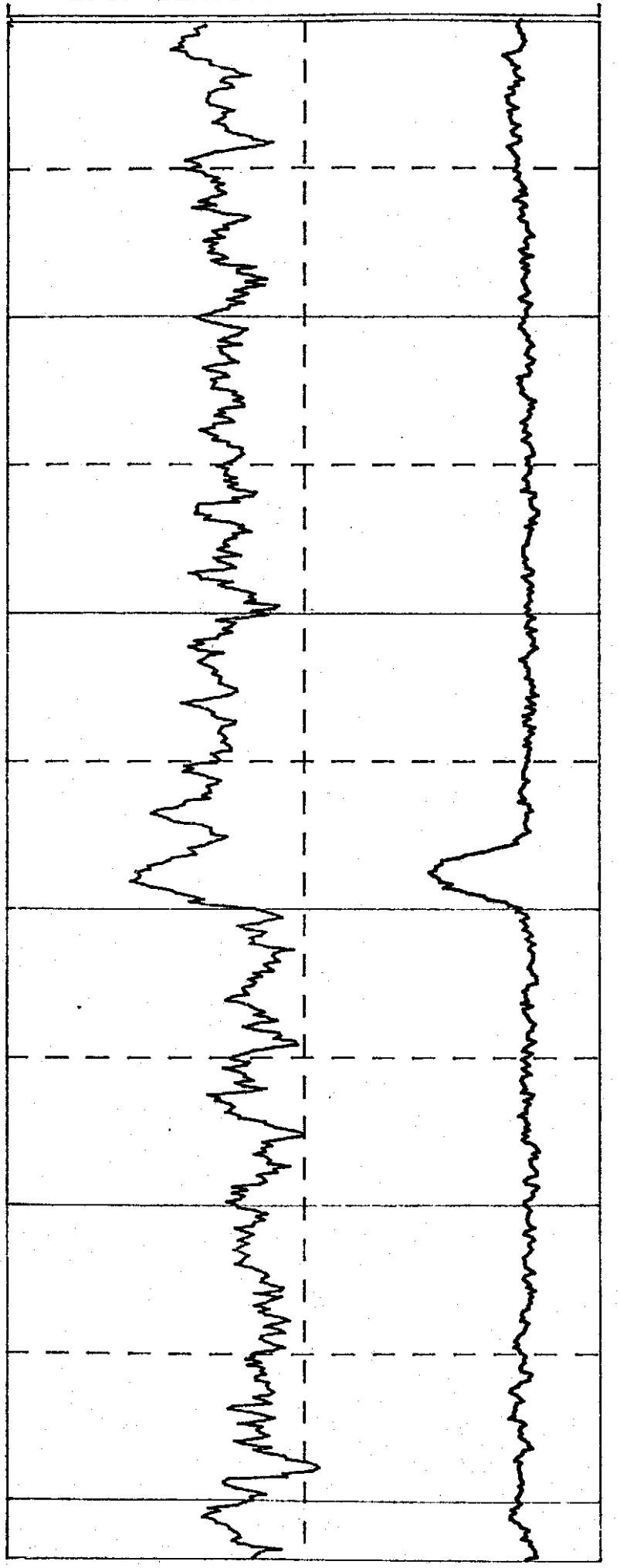
771427 BOREHOLE NO: R030

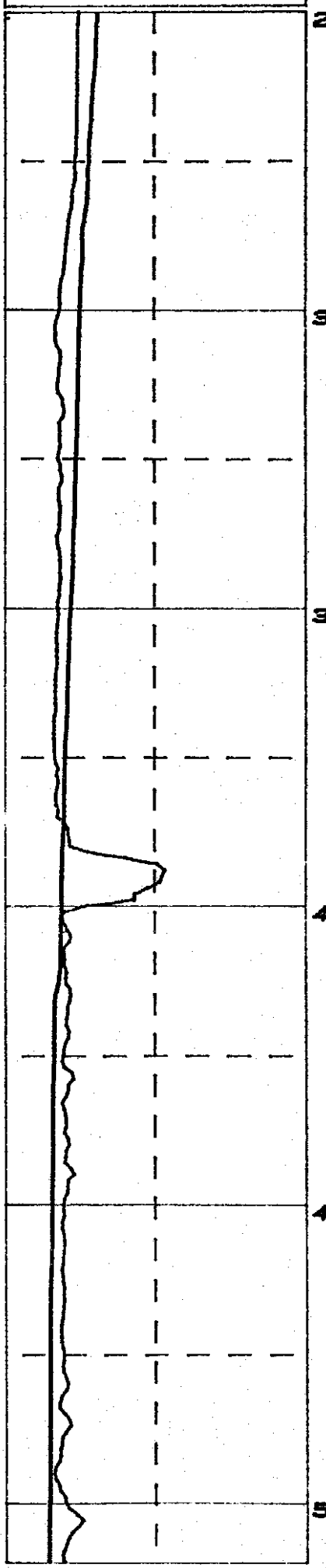
GAMMA (0-50 CPS)

L. S. DENSITY (1000-0 CPS)

RES (400-850 OHMS)

CALIPER (0-10INS)





25

30

35

40

45

50

MURDOCH GEOPHYSICS Corrected Playback LOG: R030

PAGE NO. 2

771428

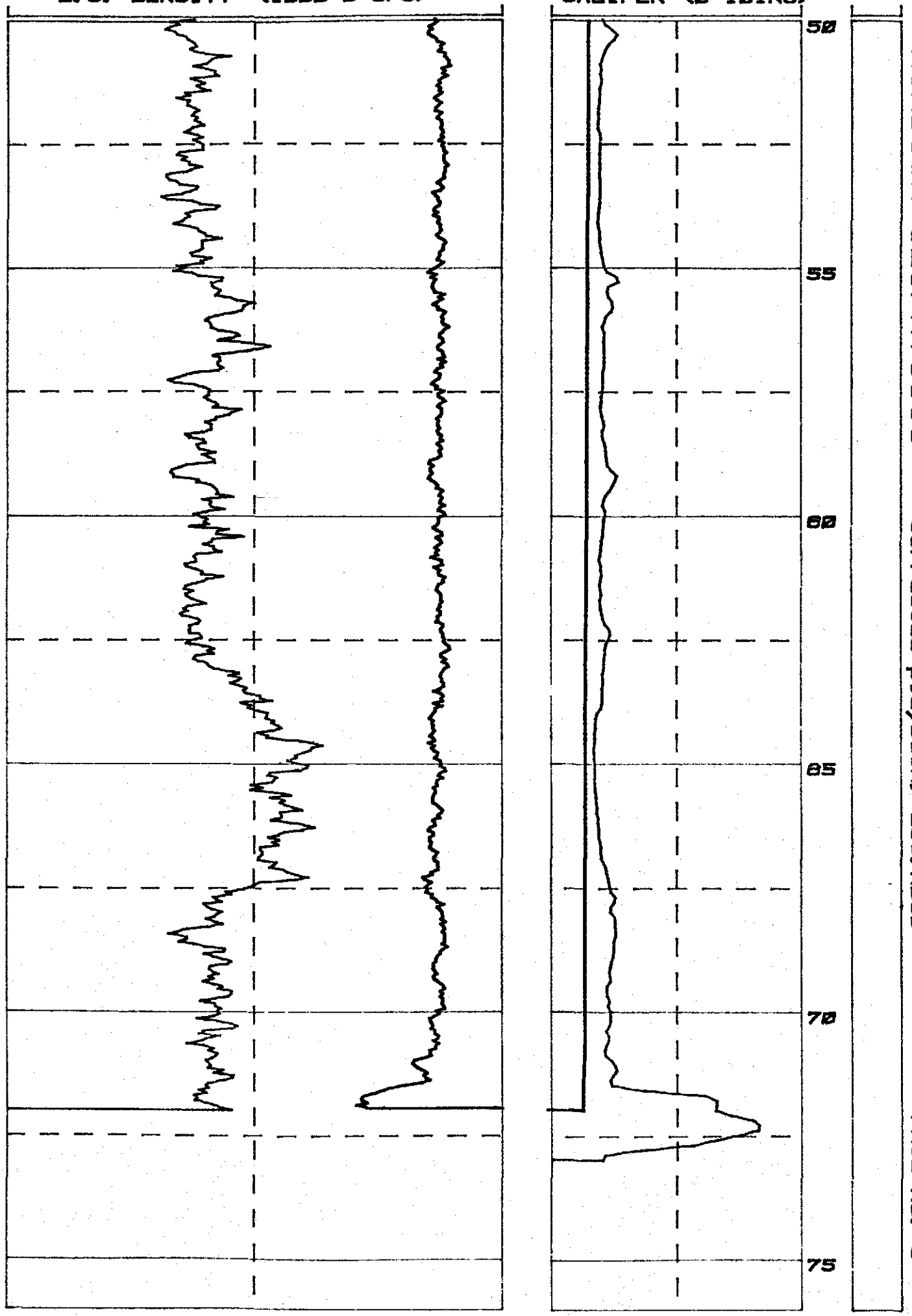
BOREHOLE NO. R030

GAMMA (0-50 CPS)

L.S. DENSITY (1000-0 CPS)

RES (400-850 OHMS)

CALIPER (0-10INS)



MURDOCH GEOPHYSICS Corrected playback LOG: R030

110

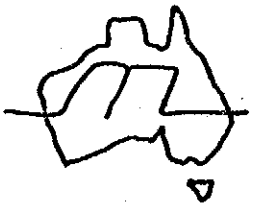
771429

BOREHOLE : R031

CLIENT : C.S.R.

LOCATION : Westbury. Tasmania.

DATE LOGGED: 25-11--81 BY S. Morgan



EQUIPMENT DATA

LOG	Tape No./File	Recording Speed (m/min)	T.C. Sec.	Source	Borehole Position	Depth Logged
Resistivity (PR)		6	—	—	Free	0 m TO 33 m
Self Potential	—	—	—	—	Free	TO —
Nat. Gamma (γ)		6	2	—	Free	1m TO 71 m
γ-γ Density		6	1	Cs137	Sidewall	1m TO 70 m
Neutron		—	1	—	Sidewall	— TO —
Caliper		6	—	—	3-Arm	1m TO 11 m

BOREHOLE DATA

Date Drilled: 25-11-81 Tot. Depth Drilled (Driller) : .....

Permanent Datum: G.L. Elevation of P.D.: .....

Casing: Type: ..... Depth: .....

Bit Sizes: 1 ..... From ..... to .....
2 ..... From ..... to .....

FLUID DATA: Nature: ..... SG.: .....

Viscosity: ..... Level: 16.1 metres

111

771430

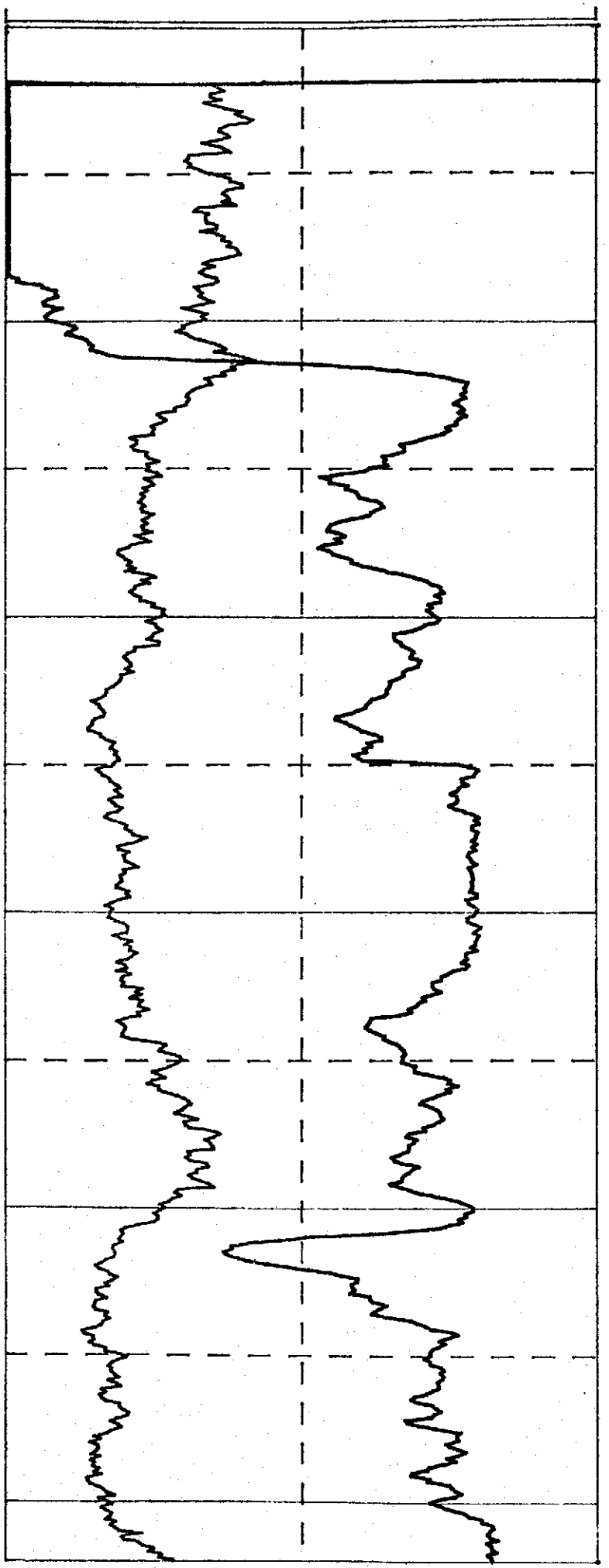
BOREHOLE NO. R031

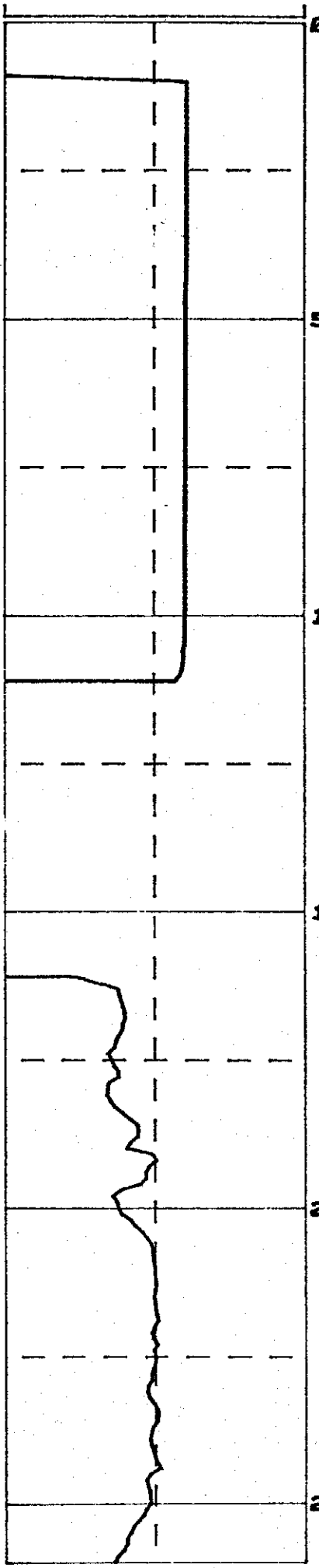
GAMMA (0-50 CPS)

L.S. DENSITY (1000-0 CPS)

RES (250-500 OHMS)

CALIPER (0-10INS)





MURDOCH GEOPHYSICS Corrected playback LOG: R031 PAGE NO. 1

112

771451

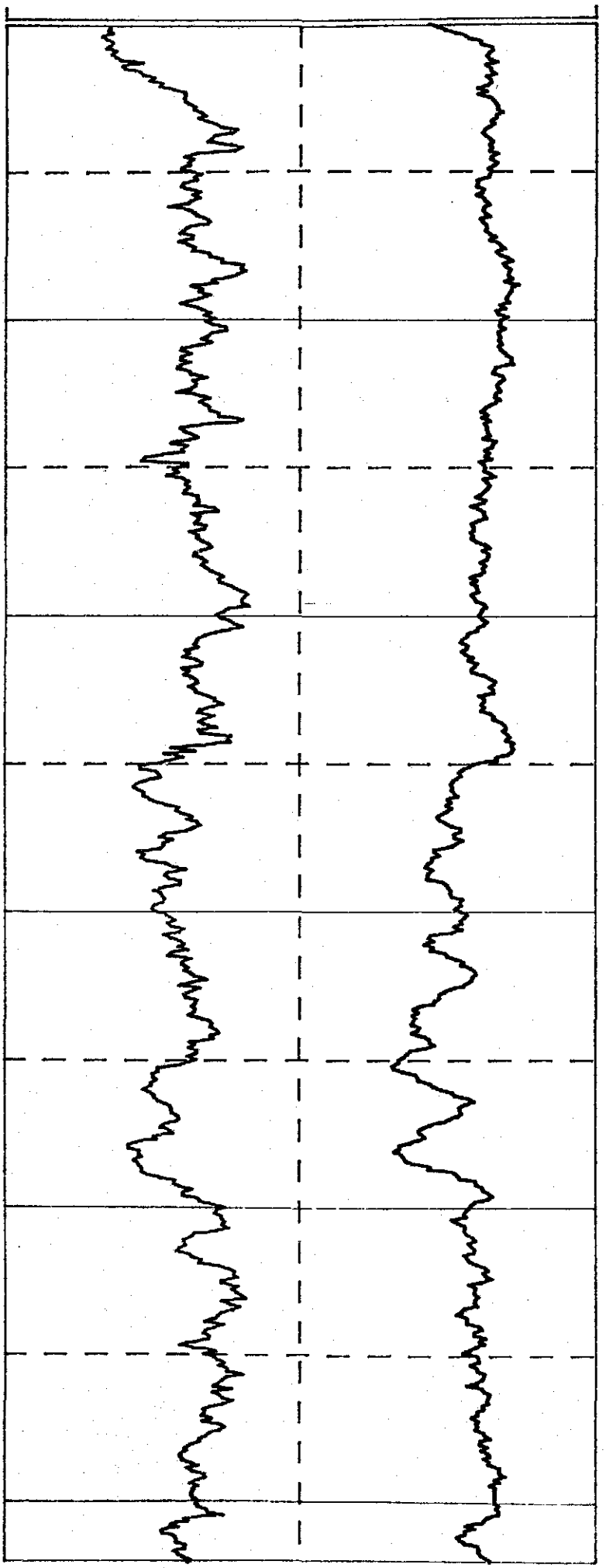
BOREHOLE NO. RØ31

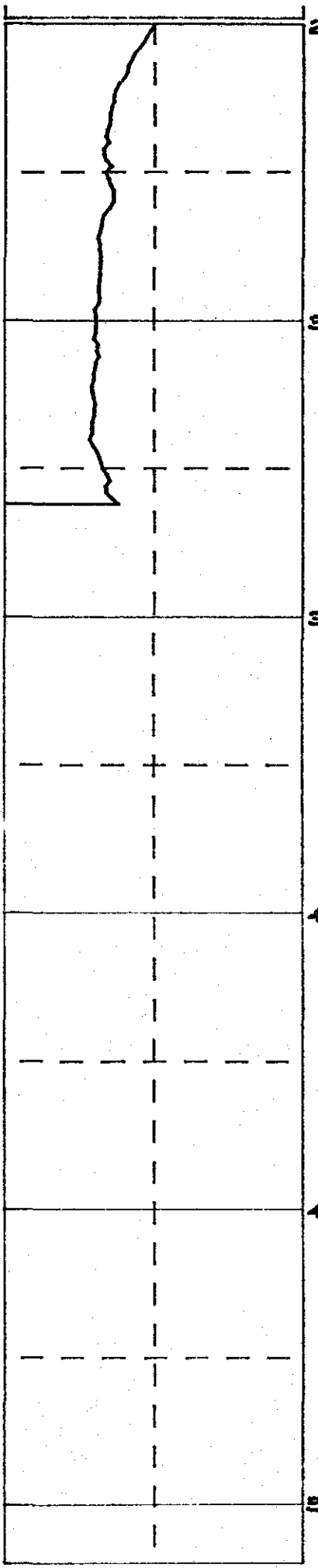
GAMMA (Ø–5Ø CPS)

L. S. DENSITY (1ØØØ–Ø CPS)

RES (25Ø–5ØØ OHMS)

CALIPER (Ø–1ØINS)





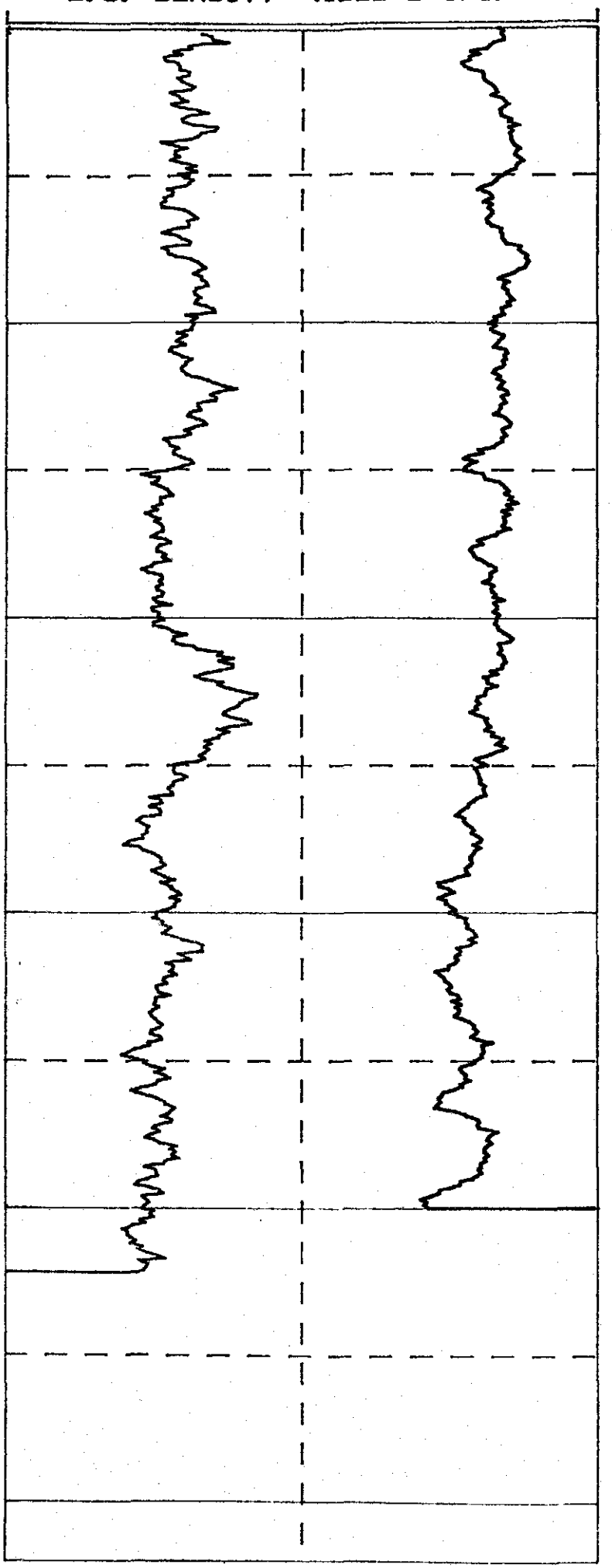
MURDOCH GEOPHYSICS Corrected Playback LOG: RØ31 PAGE NO. 2

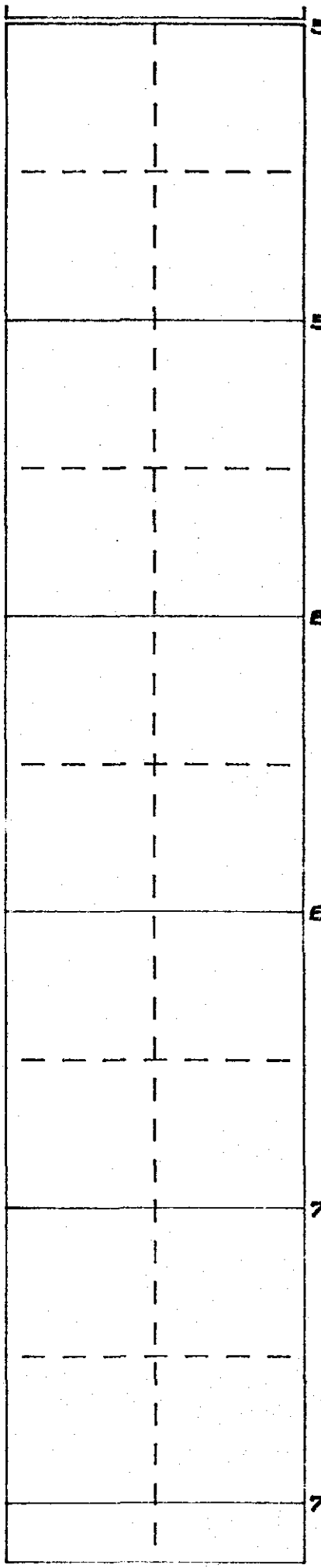
113

771432 BOREHOLE NO. R031

GAMMA (0-50 CPS)

L.S. DENSITY (1000-0 CPS)





MURDOCH GEOPHYSICS Corrected playback LOG: R031 PAGE NO. 3

114

BOREHOLE : BH 19



CLIENT : C.S.R.

LOCATION : Westbury. Tasmania.

DATE LOGGED : 18-11-81 BY S. Morgan

EQUIPMENT DATA

LOG	Tape No./File	Recording Speed (m/min)	T.C. Sec.	Source	Borehole Position	Depth Logged
Resistivity (PR)		6	—	—	Free	0 m TO 48 m
Self Potential	—	—	—	—	Free	TO —
Nat. Gamma (γ)		6	2	—	Free	1m TO 48 m
γ-γ Density		6	1	Cs137	Sidewall	1m TO 48 m
Neutron		—	1	—	Sidewall	— TO —
Caliper		6	—	—	3-Arm	1m TO 27 m

BOREHOLE DATA

Date Drilled: 18-11-81 Tot. Depth Drilled (Driller) :

Permanent Datum: G.L. Elevation of P.D. :

Casing: Type: Depth:

Bit Sizes: 1 From to
2 From to

FLUID DATA: Nature: S.G.:

Viscosity: Level: 1·8 metres

115

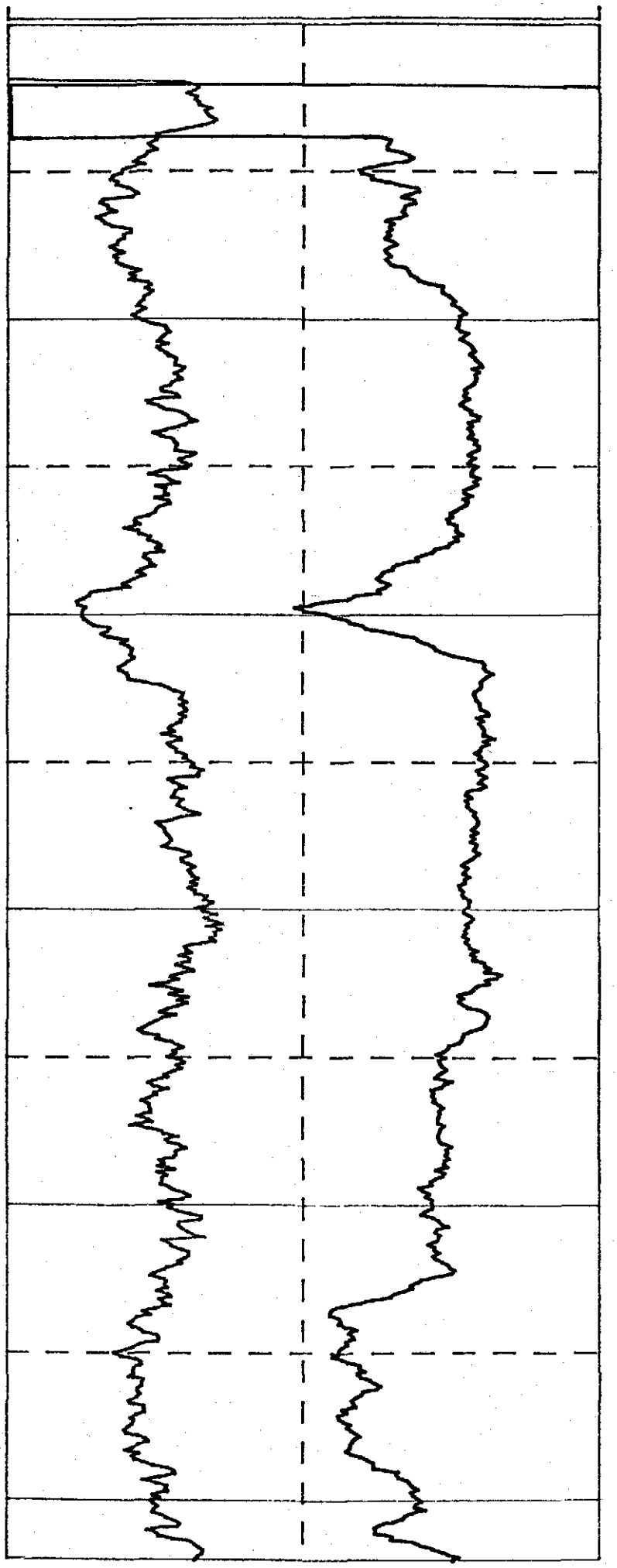
771434 BOREHOLE NO. BH19

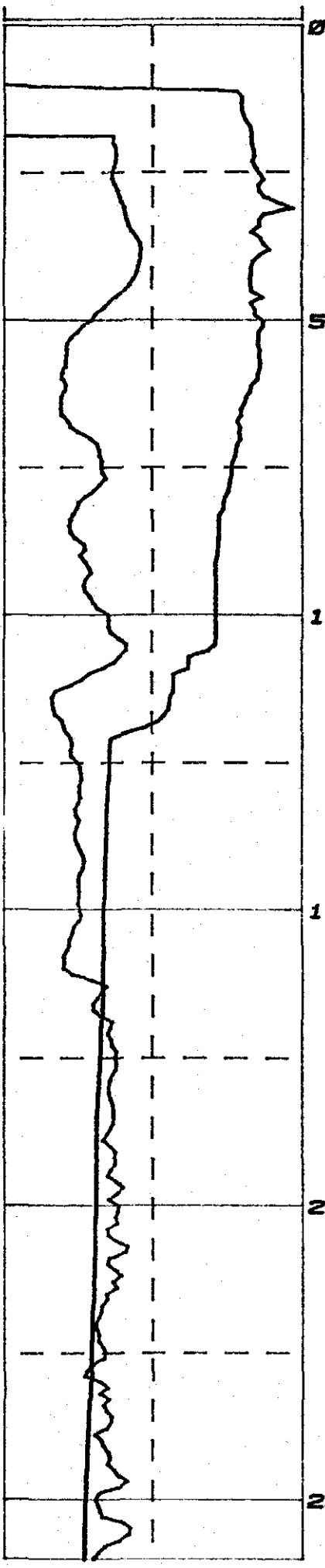
GAMMA (0-25 CPS)

L.S. DENSITY (1000-0 CPS)

RES (100-200 OHMS)

CALIPER (0-10INS)





MURDOCH GEOPHYSICS Corrected Playback: LOG: BH19

PAGE NO. 1

116

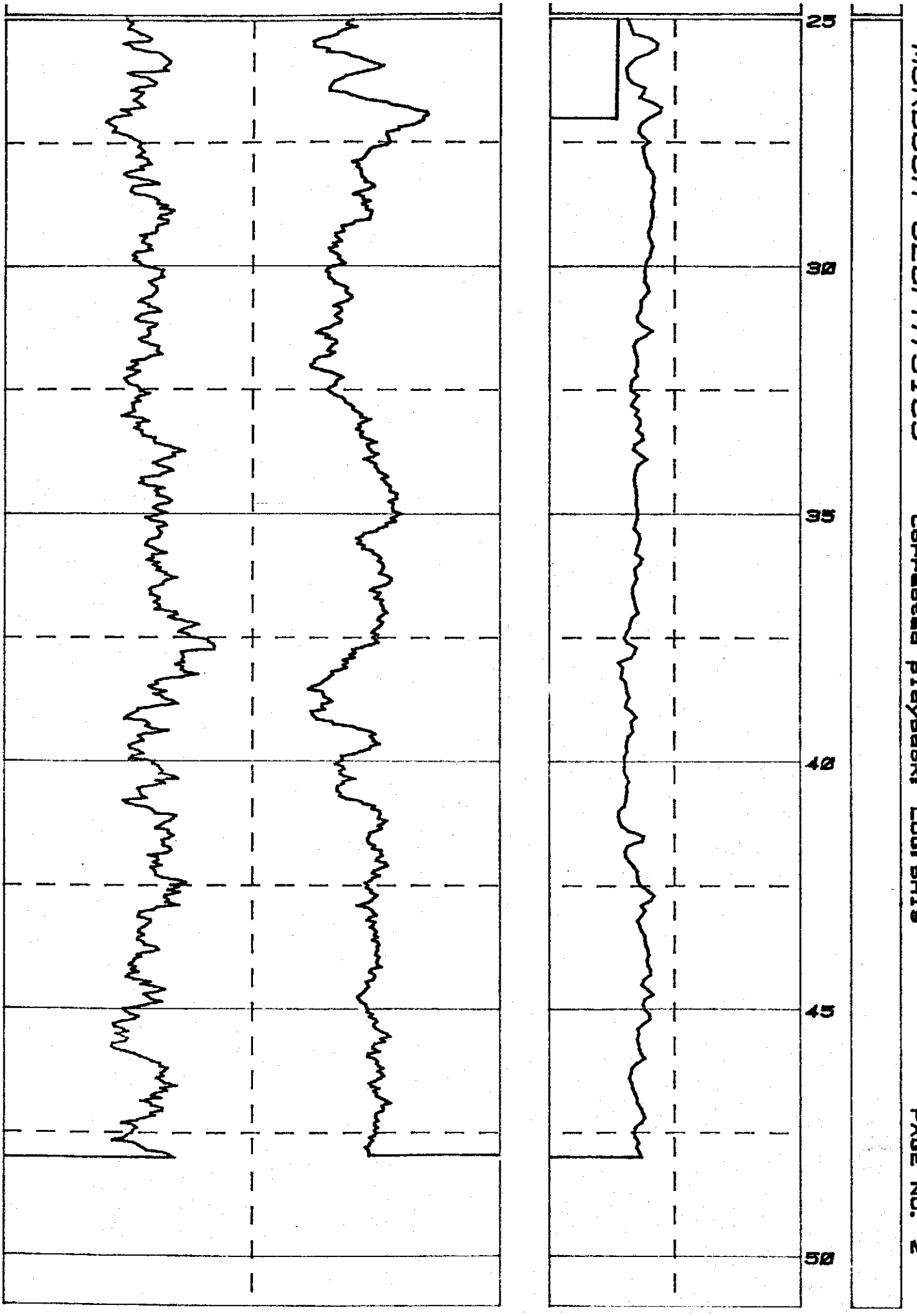
771435 BOREHOLE NO. BH19

GAMMA (0-25 CPS)

L. S. DENSITY (1000-0 CPS)

RES (100-200 OHMS)

CALIPER (0-10INS)



MURDOCH GEOPHYSICS Corrected playback: LOG: BH19 PAGE NO. 2

117 771436

BOREHOLE: BH 26

CLIENT: C.S.R.

LOCATION: Westbury. Tasmania.

DATE LOGGED: 19-11-81 BY S. Morgan



EQUIPMENT DATA

LOG	Tape No./File	Recording Speed (m/min)	T.C. Sec.	Source	Borehole Position	Depth Logged
Resistivity (PR)		6	—	—	Free	0 m TO 32 m
Self Potential	—	—	—	—	Free	TO —
Nat. Gamma (γ)		6	2	—	Free	1m TO 33 m
γ-γ Density		6	1	Cs137	Sidewall	1m TO 32 m
Neutron		—	1	—	Sidewall	— TO —
Caliper		6	—	—	3-Arm	1m TO 32 m

BOREHOLE DATA

Date Drilled: 19-11-81 Tot. Depth Drilled (Driller): .....

Permanent Datum: G.L. Elevation of P.D.: .....

Casing: Type: ..... Depth: .....

Bit Sizes: 1 ..... From ..... to .....
2 ..... From ..... to .....

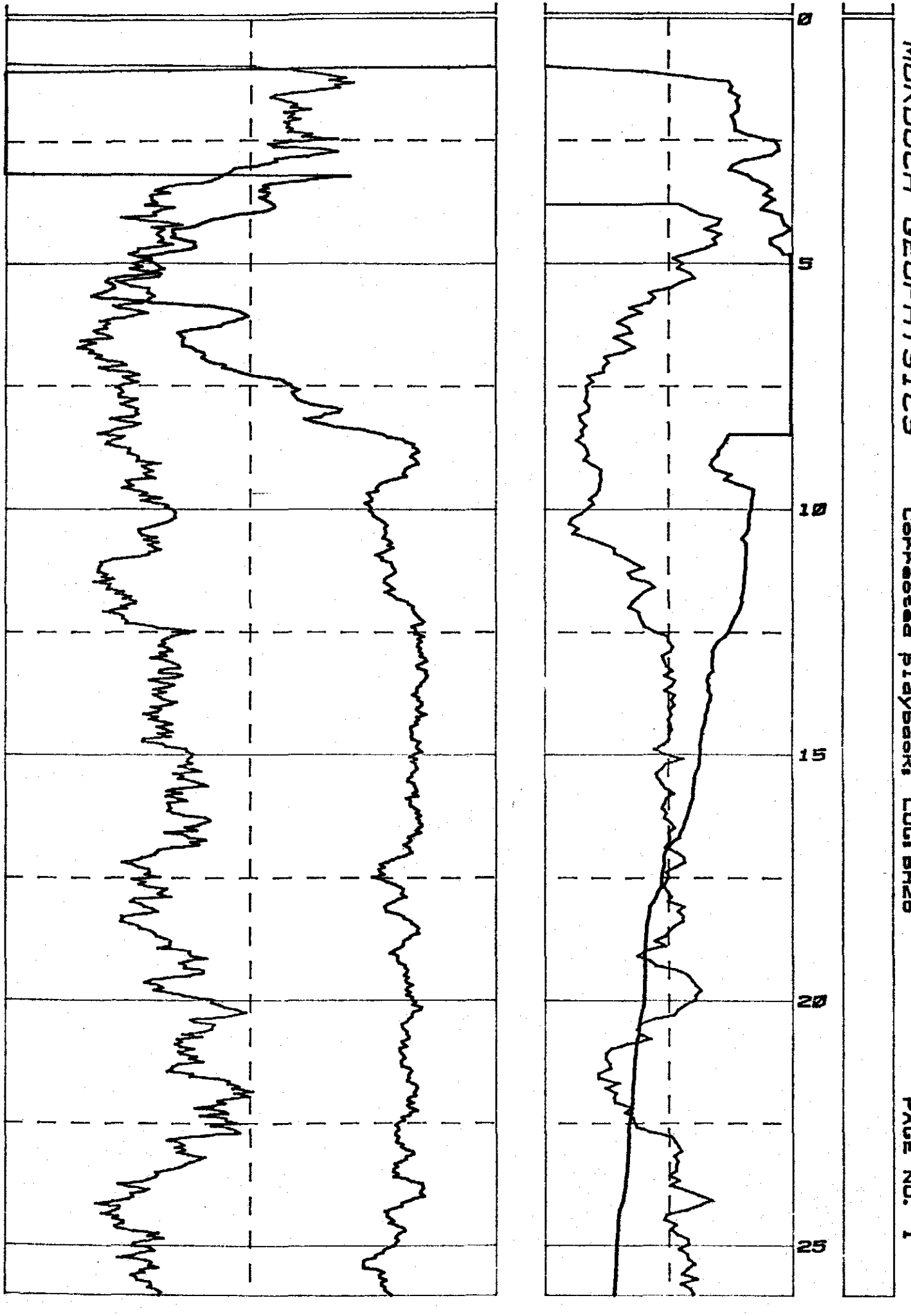
FLUID DATA: Nature: ..... S.G.: .....

Viscosity: ..... Level: 3-8 metres

771437 BOREHOLE NO. BH26

GAMMA (0-25 CPS)
L.S. DENSITY (1000-0 CPS)

RES (750-850 OHMS)
CALIPER (0-10INS)



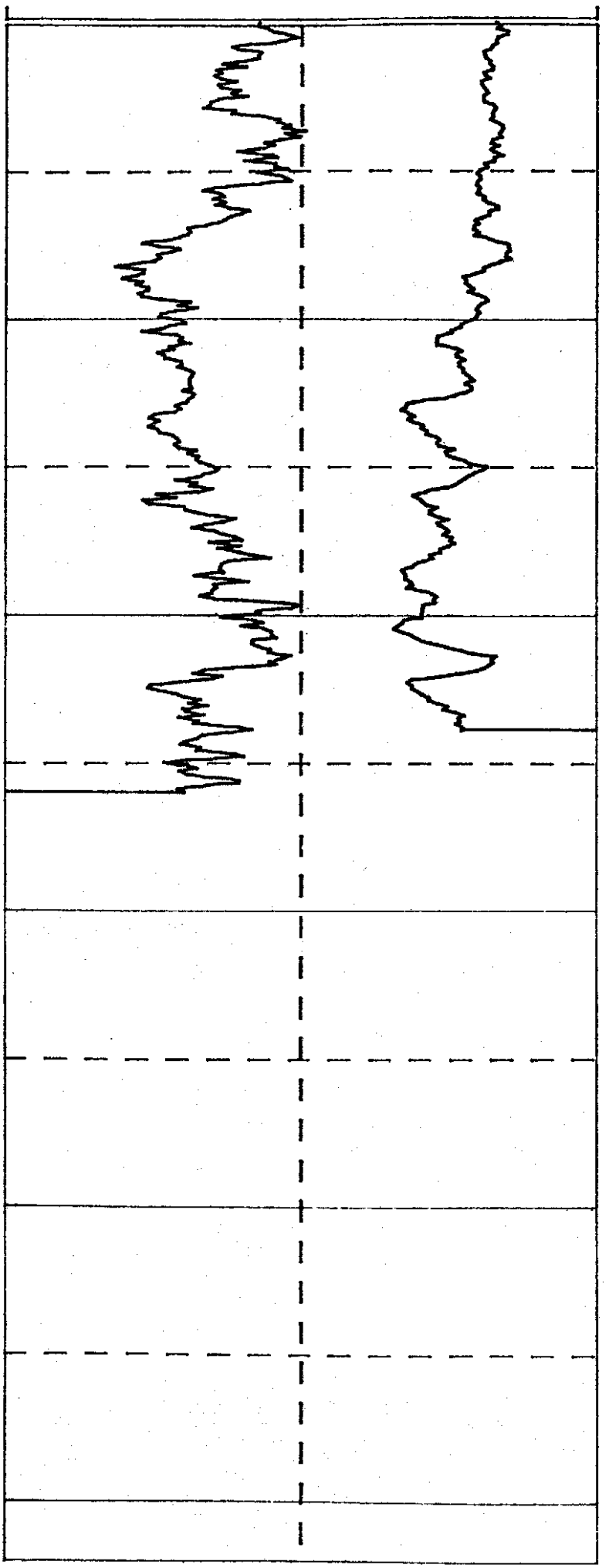
MURDOCH GEOPHYSICS Corrected Playback LOG: BH26

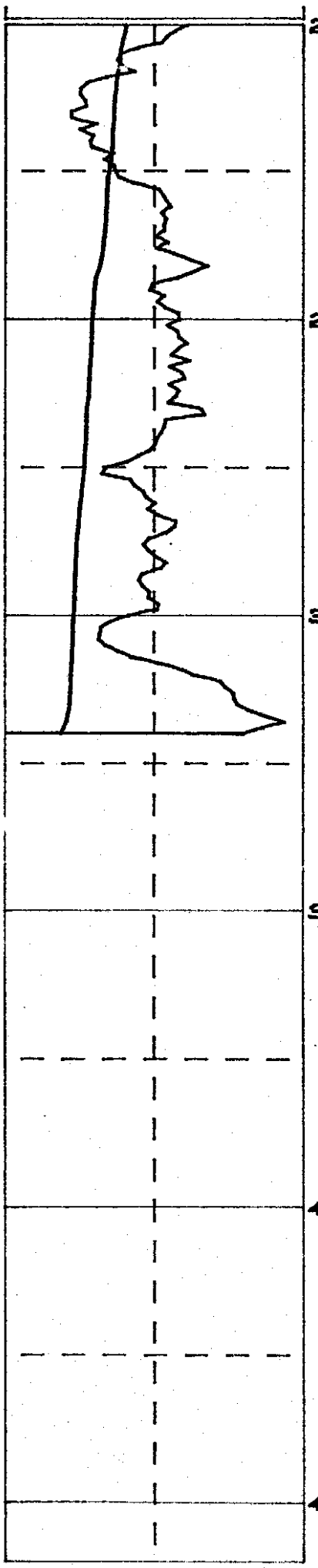
PAGE NO. 1

119 771438 BOREHOLE NO: BH26

GAMMA (0-25 CPS)
L.S. DENSITY (1000-0 CPS)

RES (750-850 OHMS)
CALIPER (0-10INS)





MURDOCH GEOPHYSICS Corrected Playback: LOG: BH26

PAGE NO. 2

771439

BOREHOLE : BH 28

CLIENT : C.S.R.

LOCATION : Westbury. Tasmania.

DATE LOGGED : 19-11-81 BY S. Morgan



EQUIPMENT DATA

LOG	Tape No./File	Recording Speed (m/min)	T.C. Sec.	Source	Borehole Position	Depth Logged
Resistivity (PR)		6	—	—	Free	0 m TO 58 m
Self Potential	—	—	—	—	Free	TO —
Nat. Gamma (γ)		6	2	—	Free	1m TO 58 m
γ-γ Density		6	1	Cs137	Sidewall	1m TO 58 m
Neutron		—	1	—	Sidewall	— TO —
Caliper		6	—	—	3-Arm	1m TO 58 m

BOREHOLE DATA

Date Drilled: 19-11-81 Tot. Depth Drilled (Driller) : .....

Permanent Datum: G.L. Elevation of P.D. : .....

Casing: Type: ..... Depth: .....

Bit Sizes: 1 ..... From ..... to .....
2 ..... From ..... to .....

FLUID DATA: Nature: ..... S.G. : .....

Viscosity: ..... Level: 0.7 metre

121

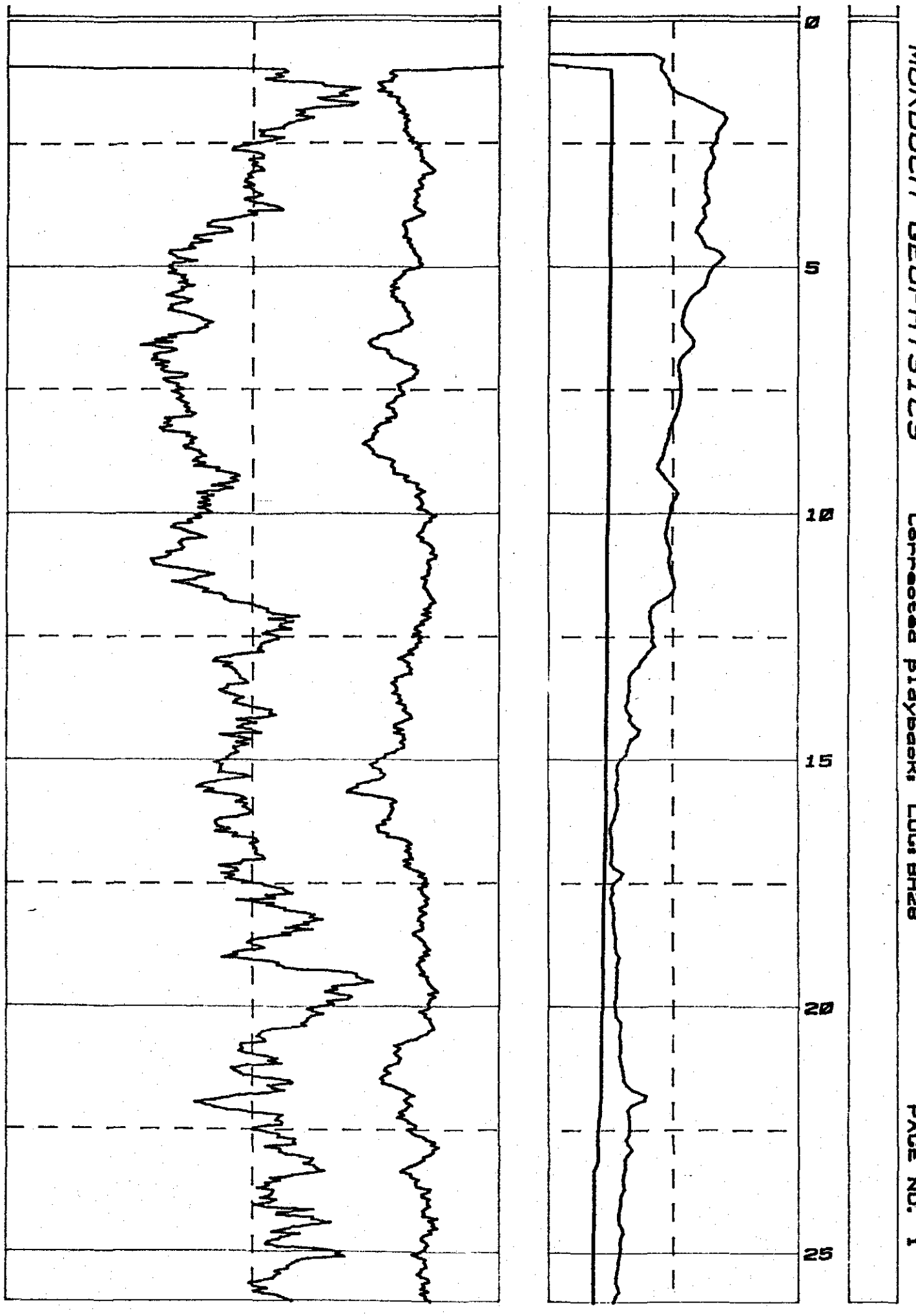
771440 BOREHOLE NO. BH28

GAMMA (0-25 CPS)

L.S. DENSITY (1000-0 CPS)

RES (850-900 OHMS)

CALIPER (0-10INS)

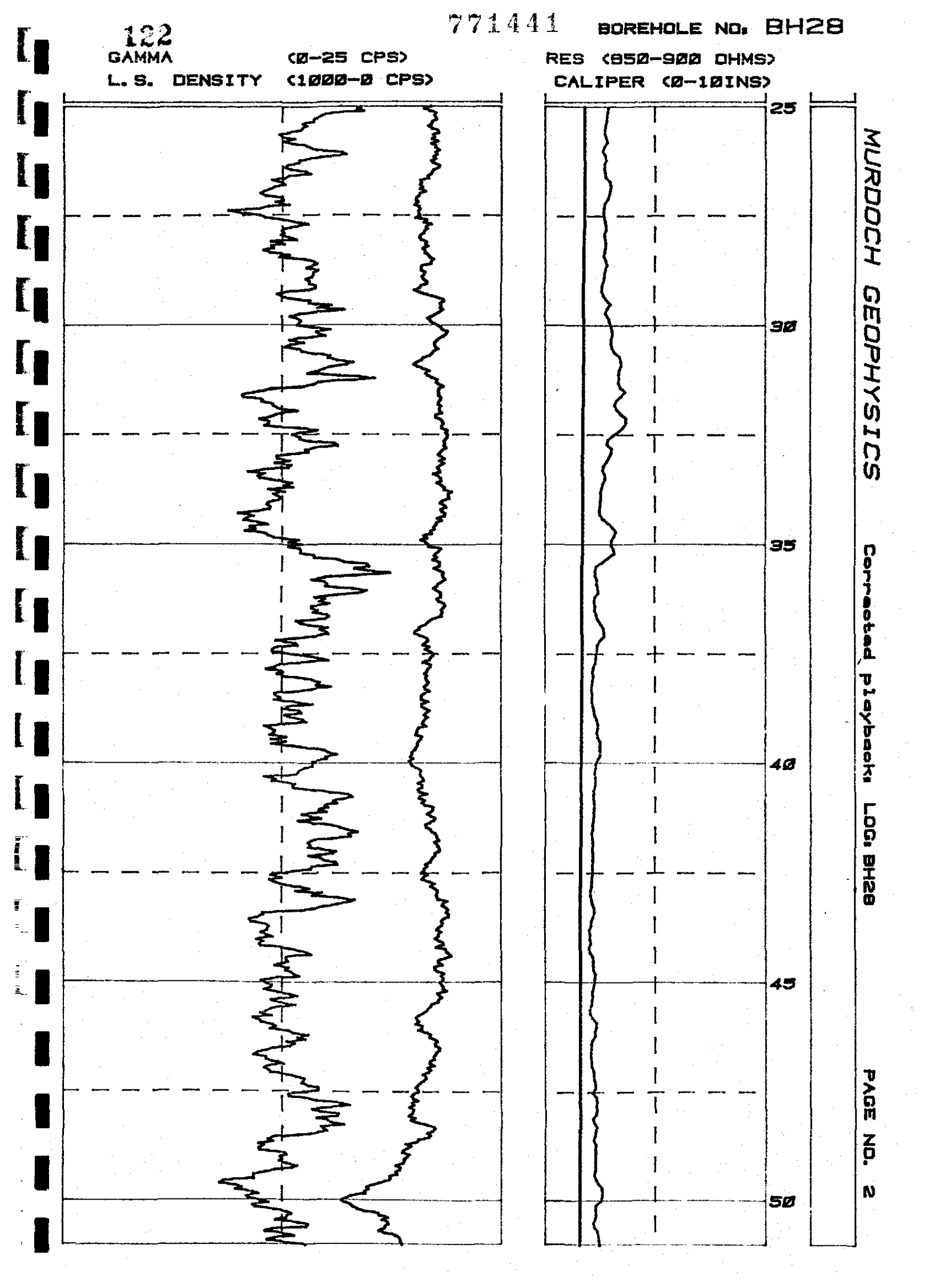


MURDOCH GEOPHYSICS Corrected Playback: LOG: BH28

PAGE NO. 1

122

771441 BOREHOLE NO. BH28



123

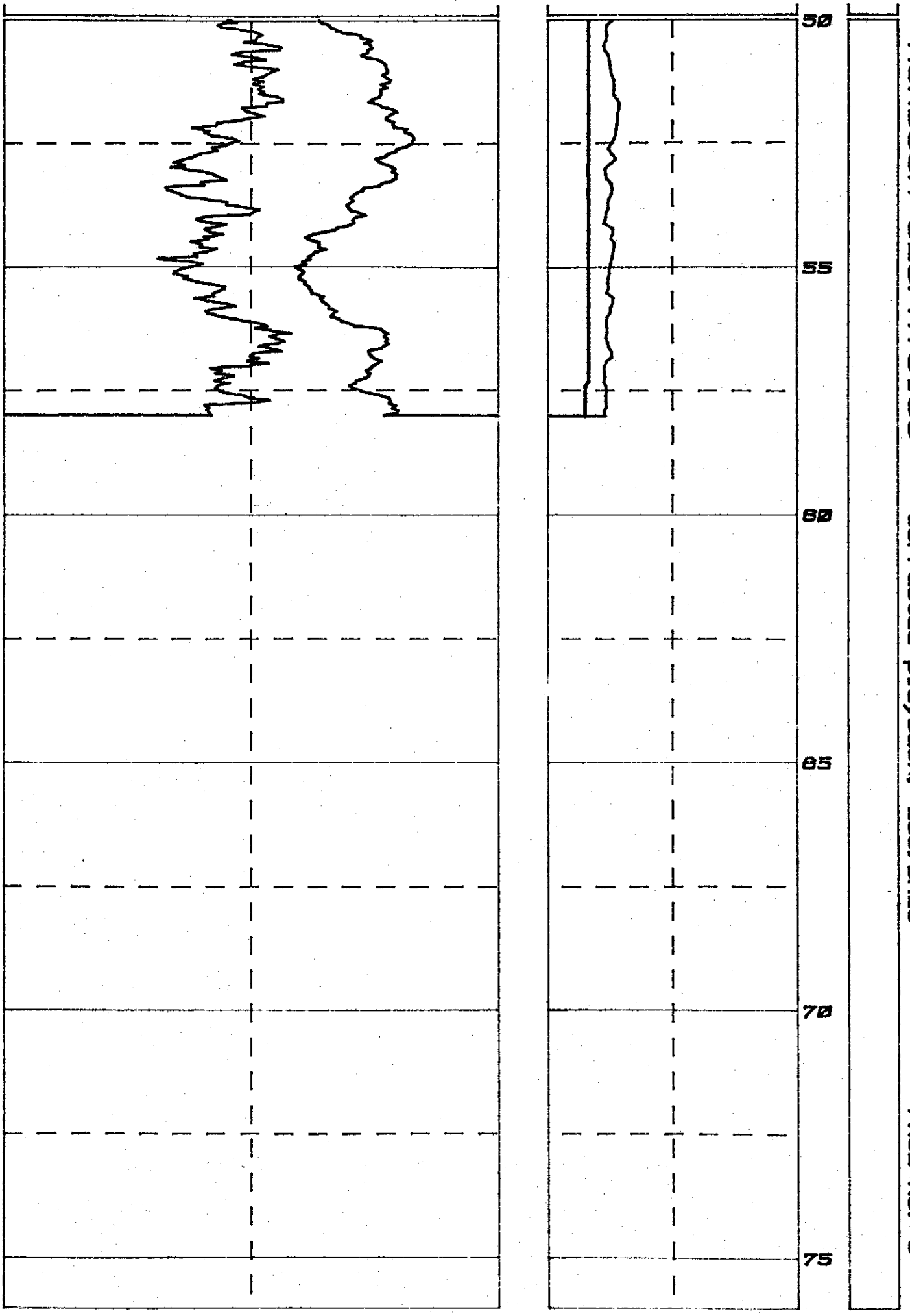
771442 BOREHOLE NO. BH28

GAMMA (0-25 CPS)

L. S. DENSITY (1000-0 CPS)

RES (850-900 OHMS)

CALIPER (0-10INS)



MURDOCH GEOPHYSICS Corrected Playback: LOG: BH28 PAGE NO. 3

124

771443

BOREHOLE: BH 29



CLIENT: C.S.R.

LOCATION: Westbury. Tasmania.

DATE LOGGED: 20-11-81 BY S. Morgan

EQUIPMENT DATA

LOG	Tape No./File	Recording Speed (m/min)	T.C. Sec.	Source	Borehole Position	Depth Logged
Resistivity (PR)		6	—	—	Free	0 m TO 95m
Self Potential	—	—	—	—	Free	TO —
Nat. Gamma (γ)		6	2	—	Free	1m TO 95m
γ-γ Density		6	1	Cs137	Sidewall	1m TO 95m
Neutron		—	1	—	Sidewall	— TO —
Caliper		6	—	—	3-Arm	1m TO 87 m

BOREHOLE DATA

Date Drilled: 20-11-81. Tot. Depth Drilled (Driller): .....

Permanent Datum: G.L. Elevation of P.D.: .....

Casing: Type: ..... Depth: .....

Bit Sizes: 1 ..... From ..... to .....
2 ..... From ..... to .....

FLUID DATA: Nature: ..... S.G.: .....

Viscosity: ..... Level: 63 metres

771444

BOREHOLE NO. BH29

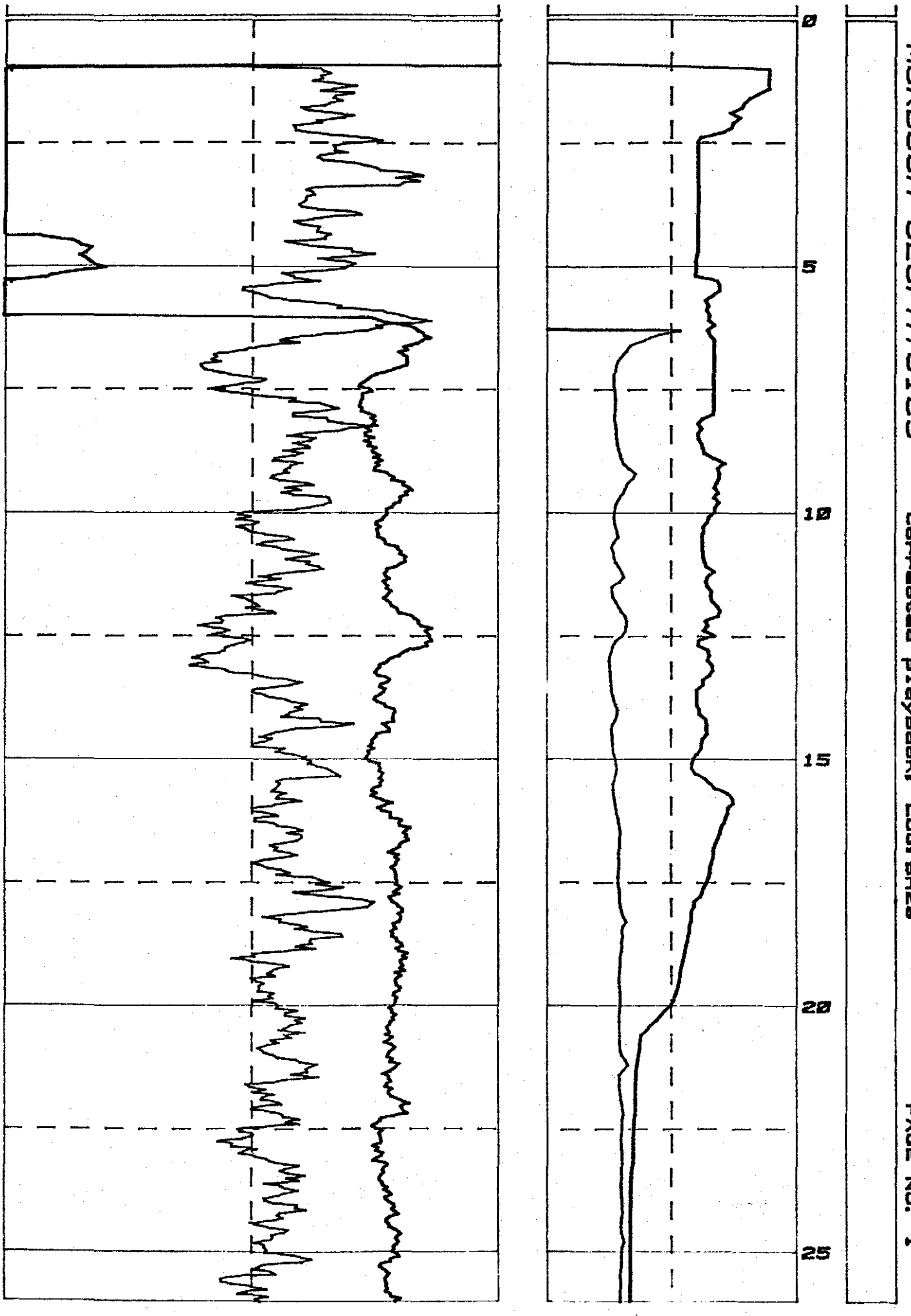
125

GAMMA (0-25 CPS)

L.S. DENSITY (1000-0 CPS)

RES (100-350 OHMS)

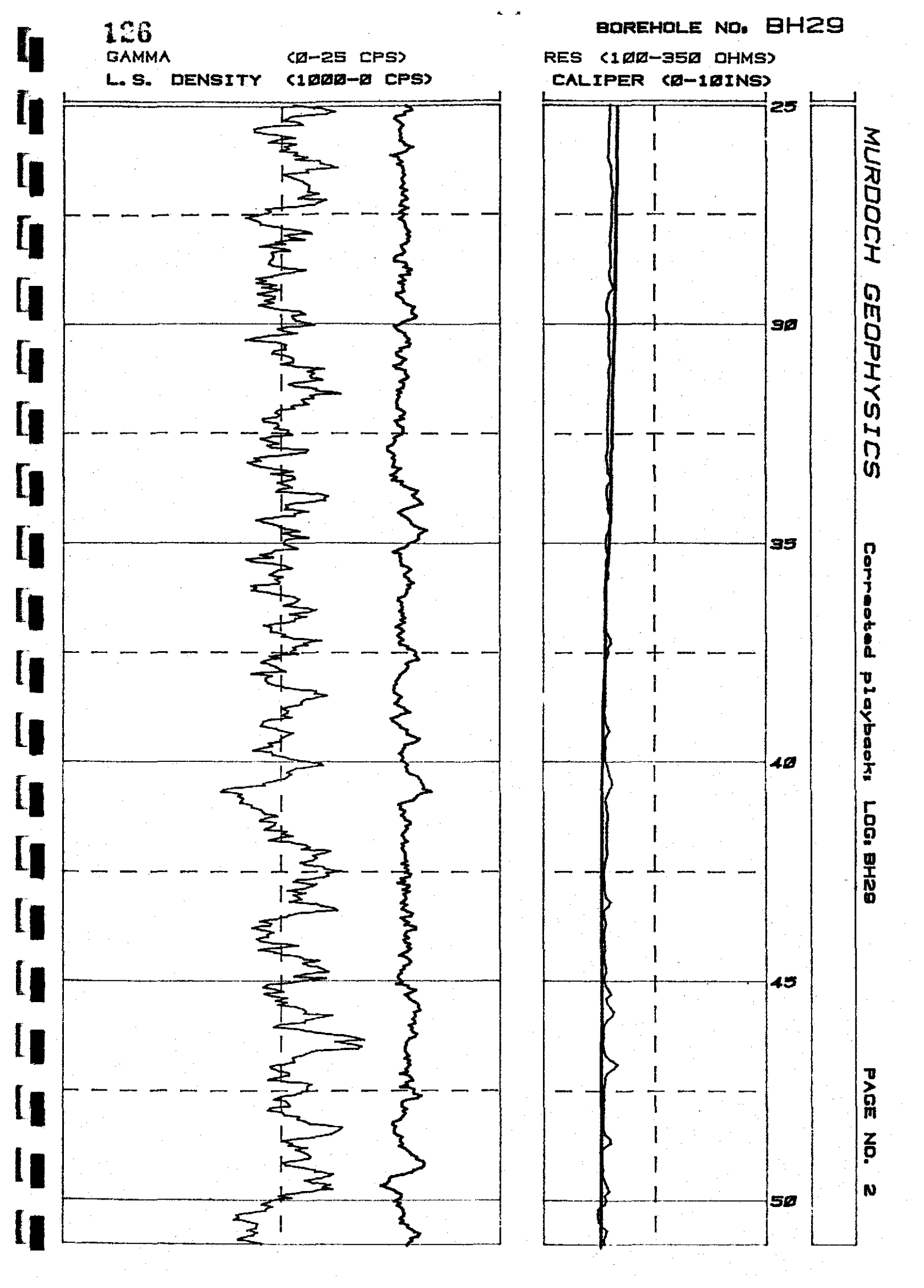
CALIPER (0-10INS)



MURDOCH GEOPHYSICS

Corrected playback: LOG: BH29

PAGE NO. 1


126
GAMMA (0-25 CPS)
L.S. DENSITY (1000-0 CPS)
BOREHOLE NO. BH29
RES (100-350 OHMS)
CALIPER (0-10INS)
25
30
35
40
45
50
MURDOCH GEOPHYSICS
Corrected playback: LOG: BH29
PAGE NO. 2

127

771446

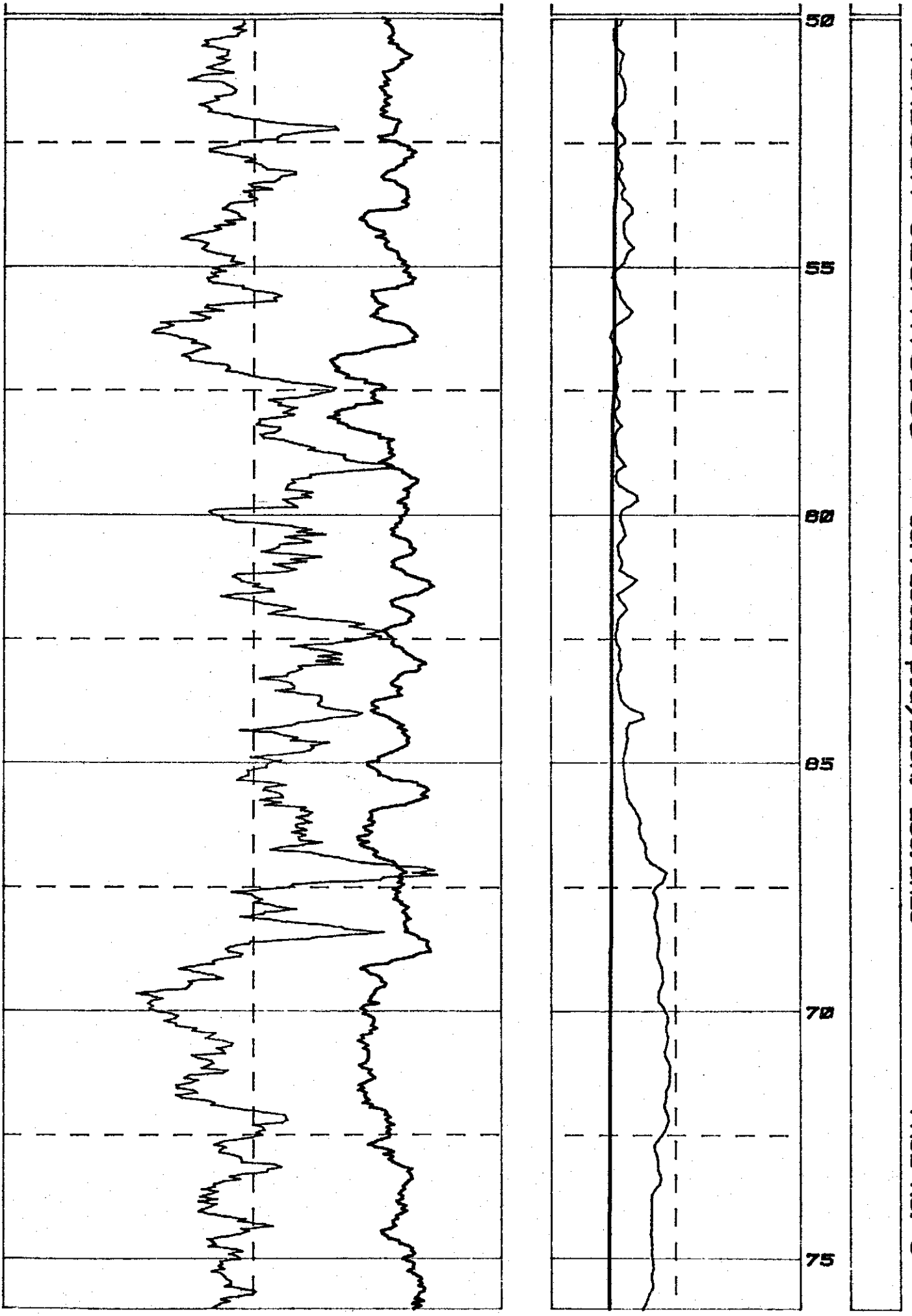
BOREHOLE NO. BH29

GAMMA (0-25 CPS)

L.S. DENSITY (1000-0 CPS)

RES (100-350 OHMS)

CALIPER (0-10INS)



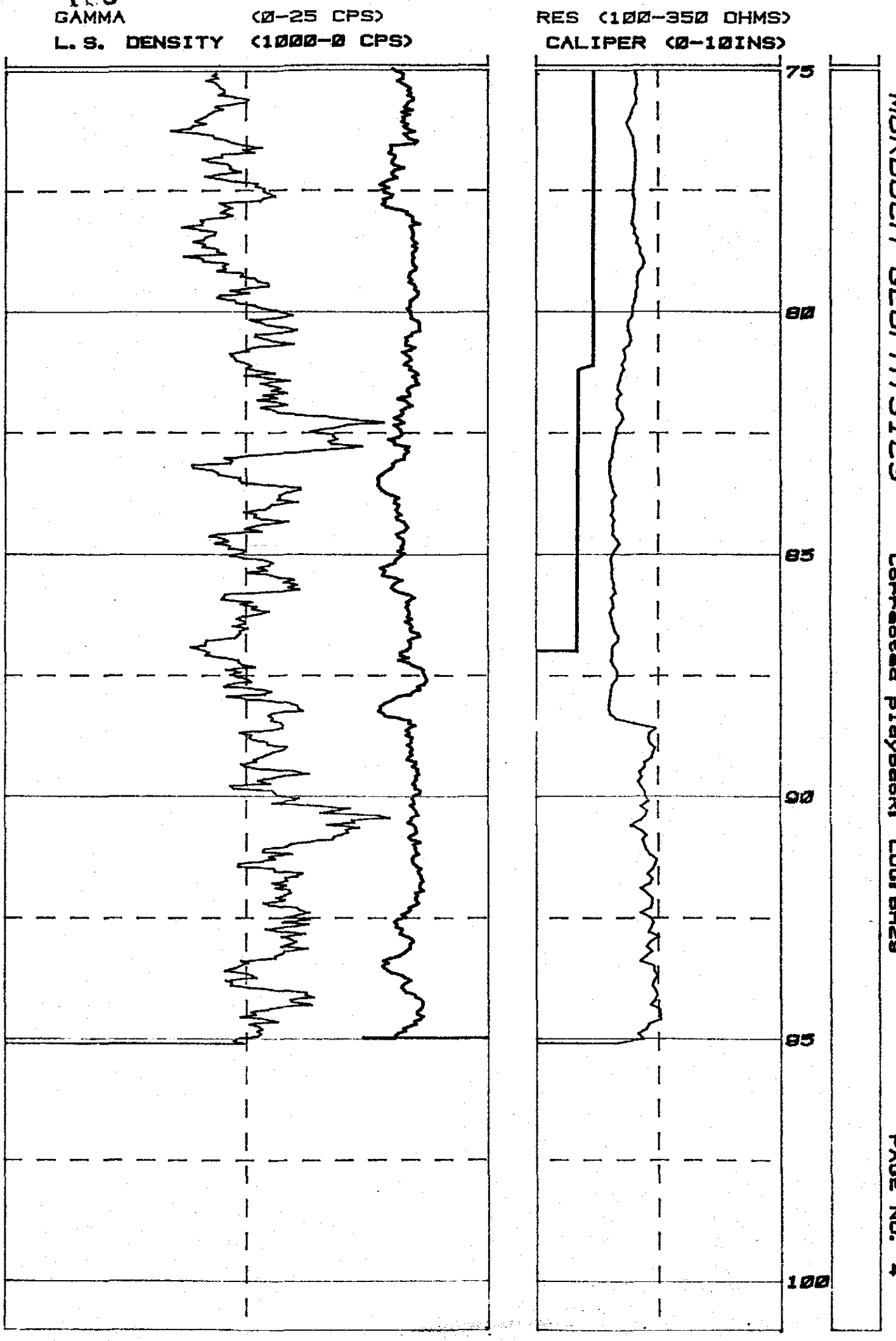
MURDOCH GEOPHYSICS

Corrected playback: LOG: BH29

PAGE NO. 3

771447

BOREHOLE NO. BH29



MURDOCH GEOPHYSICS

Corrected playback: LOG: BH29

129

771448

BOREHOLE: C.004 (1)



CLIENT: C.S.R.

LOCATION: Westbury. Tasmania.

DATE LOGGED: 3-12-81 BY S. Morgan

EQUIPMENT DATA

LOG	Tape No./File	Recording Speed (m/min)	T.C. Sec.	Source	Borehole Position	Depth Logged
Resistivity (PR)		6	—	—	Free	0 m TO 43 m
Self Potential	—	—	—	—	Free	TO —
Nat. Gamma (γ)		6	2	—	Free	1m TO 43m
γ-γ Density		6	1	Cs137	Sidewall	1m TO 43 m
Neutron		—	1	—	Sidewall	— TO —
Caliper		6	—	—	3-Arm	1m TO 43 m

BOREHOLE DATA

Date Drilled: 3-12-81 Tot. Depth Drilled (Driller): .....

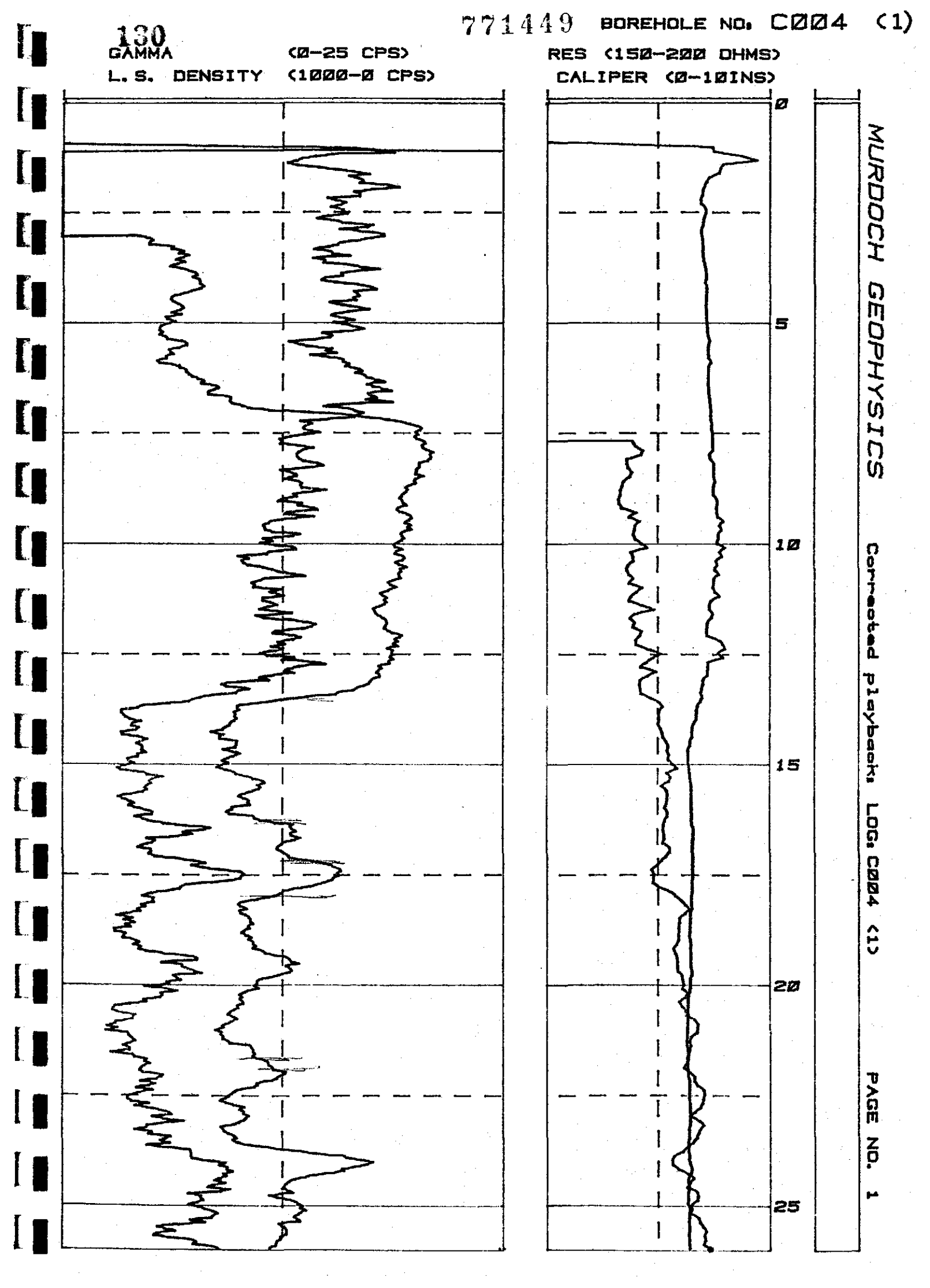
Permanent Datum: G.L. Elevation of P.D.: .....

Casing: Type: ..... Depth: .....

Bit Sizes: 1 ..... From ..... to .....
2 ..... From ..... to .....

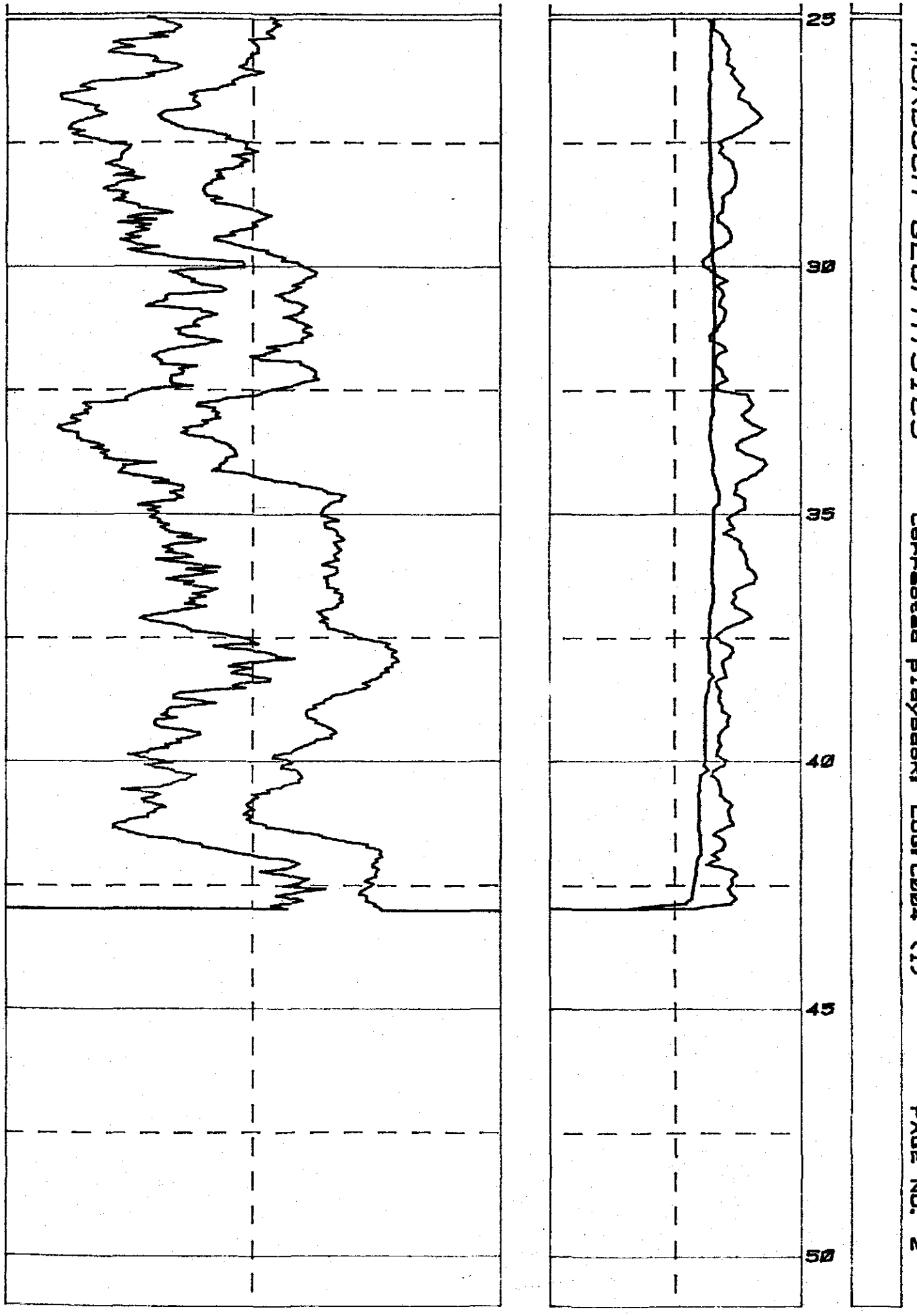
FLUID DATA: Nature: ..... SG.: .....

Viscosity: ..... Level: 7.7 metres


771449 BOREHOLE NO. C004 (1)
130
GAMMA (0-25 CPS)
L.S. DENSITY (1000-0 CPS)
RES (150-200 OHMS)
CALIPER (0-10INS)
0
5
10
15
20
25
MURDOCH GEOPHYSICS
Corrected Playback: LOG: C004 (1)
PAGE NO. 1

131 771450 BOREHOLE NO. C004 (1)

GAMMA (0-25 CPS)
L.S. DENSITY (1000-0 CPS)
RES (150-200 OHMS)
CALIPER (0-10INS)



MURDOCH GEOPHYSICS Corrected Playback LOG: C004 (1) PAGE NO. 2

132 771451

BOREHOLE : C004 (2)

CLIENT : C.S.R.

LOCATION: Westbury. Tasmania.

DATE LOGGED: 7-12-81 BY S. Morgan



EQUIPMENT DATA

LOG	Tape No./File	Recording Speed (m/min)	T.C. Sec.	Source	Borehole Position	Depth Logged
Resistivity (PR)		6	—	—	Free	0 m TO m
Self Potential	—	—	—	—	Free	TO —
Nat. Gamma (γ)		6	2	—	Free	1m TO m
γ-γ Density		6	1	Cs137	Sidewall	1m TO m
Neutron		—	1	—	Sidewall	— TO —
Caliper		6	—	—	3-Arm	1m TO m

BOREHOLE DATA

Date Drilled: 7-12-81 Tot. Depth Drilled (Driller): .....

Permanent Datum: G.L. Elevation of P.D.: .....

Casing: Type: ..... Depth: .....

Bit Sizes: 1 ..... From ..... to .....
2 ..... From ..... to .....

FLUID DATA: Nature: ..... SG.: .....

Viscosity: ..... Level: 5-2 metres

133

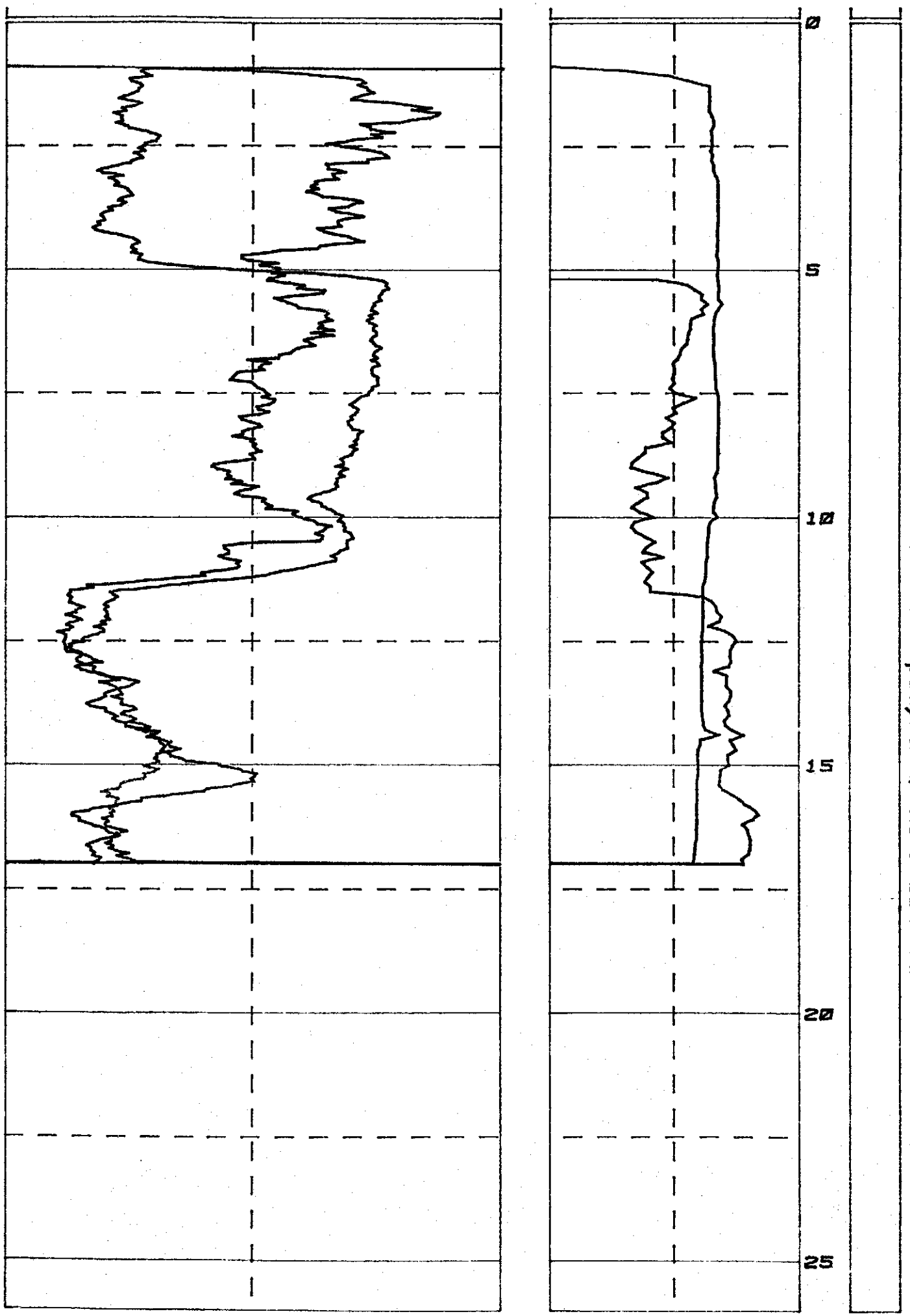
771452 BOREHOLE NO. C004 (2)

GAMMA (0-25 CPS)

L. S. DENSITY (1000-0 CPS)

RES (130-180 OHMS)

CALIPER (0-10INS)



MURDOCH GEOPHYSICS

Corrected playback LOG: C004 (2)

771453

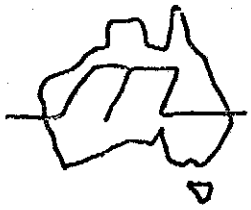
134

BOREHOLE : C019

CLIENT : C.S.R.

LOCATION: Westbury. Tasmania.

DATE LOGGED: 2-12-81 BY S. Morgan



EQUIPMENT DATA

LOG	Tape No./File	Recording Speed (m/min)	T.C. Sec.	Source	Borehole Position	Depth Logged
Resistivity (PR)		6	—	—	Free	0 m TO 33 m
Self Potential	—	—	—	—	Free	TO —
Nat. Gamma (γ)		6	2	—	Free	1m TO 33 m
γ-γ Density		6	1	Cs137	Sidewall	1m TO 33 m
Neutron		—	1	—	Sidewall	— TO —
Caliper		6	—	—	3-Arm	1m TO 33 m

BOREHOLE DATA

Date Drilled: 2-12-81 Tot. Depth Drilled (Driller): .....

Permanent Datum: G.L. Elevation of P.D.: .....

Casing: Type: ..... Depth: .....

Bit Sizes: 1 ..... From ..... to .....
2 ..... From ..... to .....

FLUID DATA: Nature: ..... S.G.: .....

Viscosity: ..... Level: 3.8 metres

135

771454

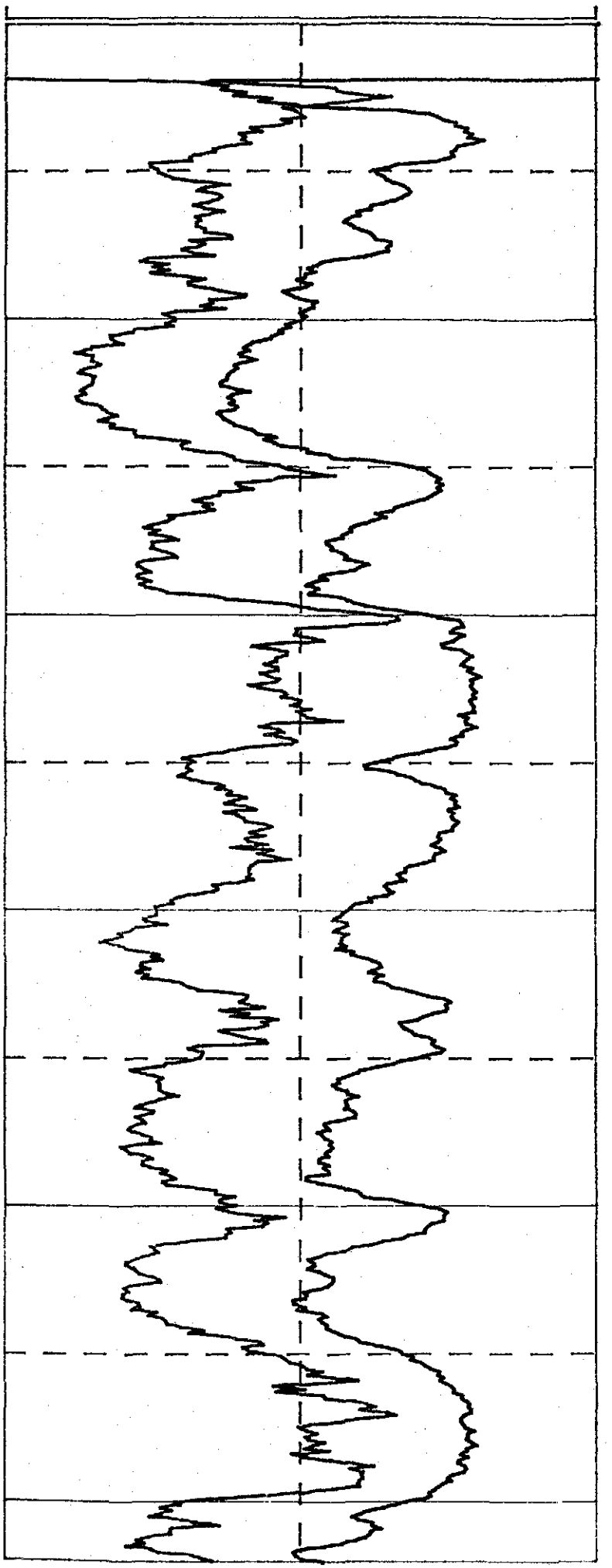
BOREHOLE NO: C019

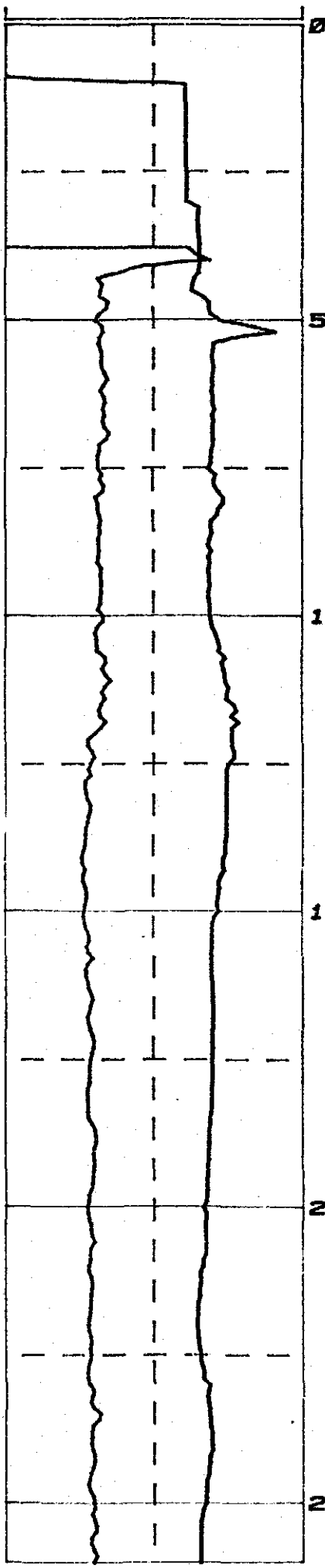
GAMMA (0-25 CPS)

L.S. DENSITY (1000-0 CPS)

RES (200-700 OHMS)

CALIPER (0-10INS)





MURDOCH GEOPHYSICS Corrected Playback: LOG: C019 PAGE NO. 1

166

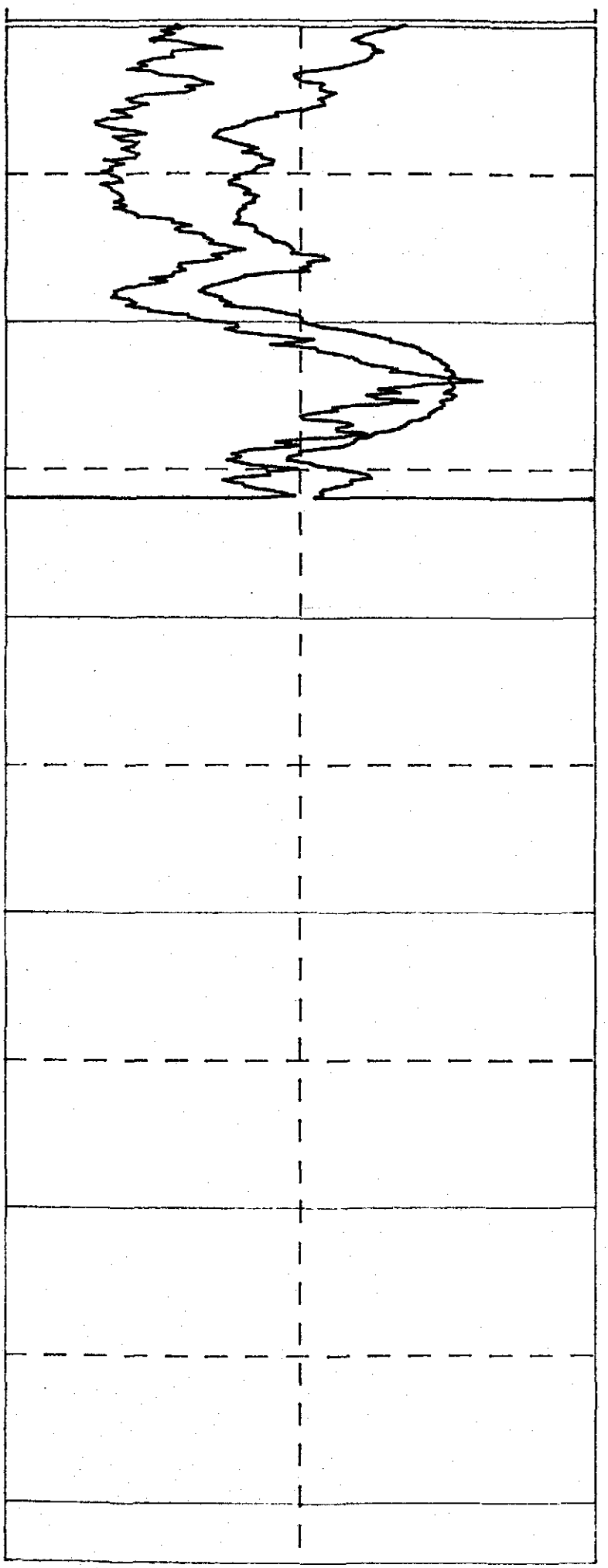
771455 BOREHOLE NO. C019

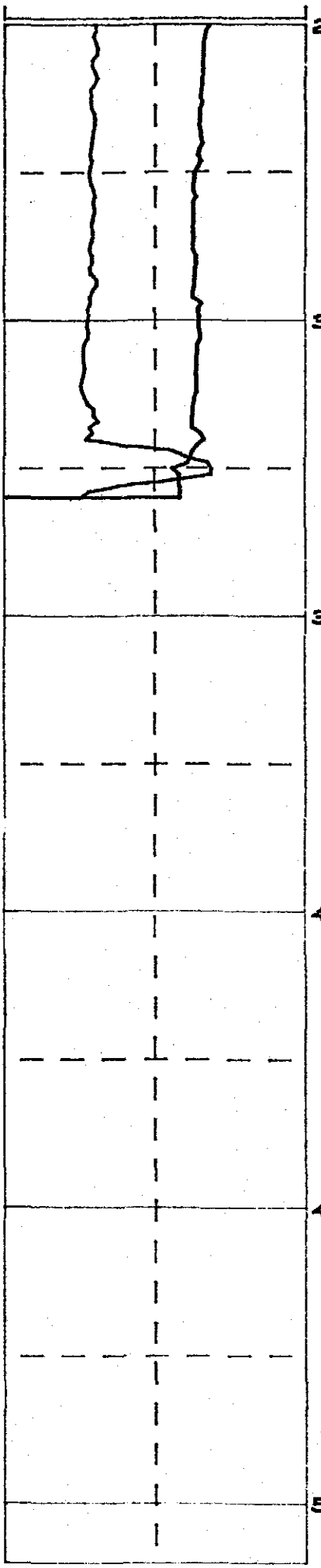
GAMMA (0-25 CPS)

L.S. DENSITY (1000-0 CPS)

RES (200-700 OHMS)

CALIPER (0-10INS)





25

30

35

40

45

50

MURDOCH GEOPHYSICS Corrected Playback LOG: C019 PAGE NO. 2

137 771456

BOREHOLE : C021

CLIENT : C.S.R.

LOCATION: Westbury. Tasmania.

DATE LOGGED: 6-12-81 BY S. Morgan



EQUIPMENT DATA

LOG	Tape No./File	Recording Speed (m/min)	T.C. Sec.	Source	Borehole Position	Depth Logged
Resistivity (PR)		6	—	—	Free	0 m TO 79 m
Self Potential	—	—	—	—	Free	TO —
Nat. Gamma (γ)		6	2	—	Free	1m TO 79 m
γ-γ Density		6	1	Cs137	Sidewall	1m TO 79 m
Neutron		—	1	—	Sidewall	— TO —
Caliper		6	—	—	3-Arm	1m TO 79 m

BOREHOLE DATA

Date Drilled: 6-12-81 Tot. Depth Drilled (Driller) : .....

Permanent Datum: G.L. Elevation of P.D.: .....

Casing: Type: ..... Depth: .....

Bit Sizes: 1 ..... From ..... to .....
2 ..... From ..... to .....

FLUID DATA: Nature: ..... SG.: .....

Viscosity: ..... Level: 11.6 metres

138

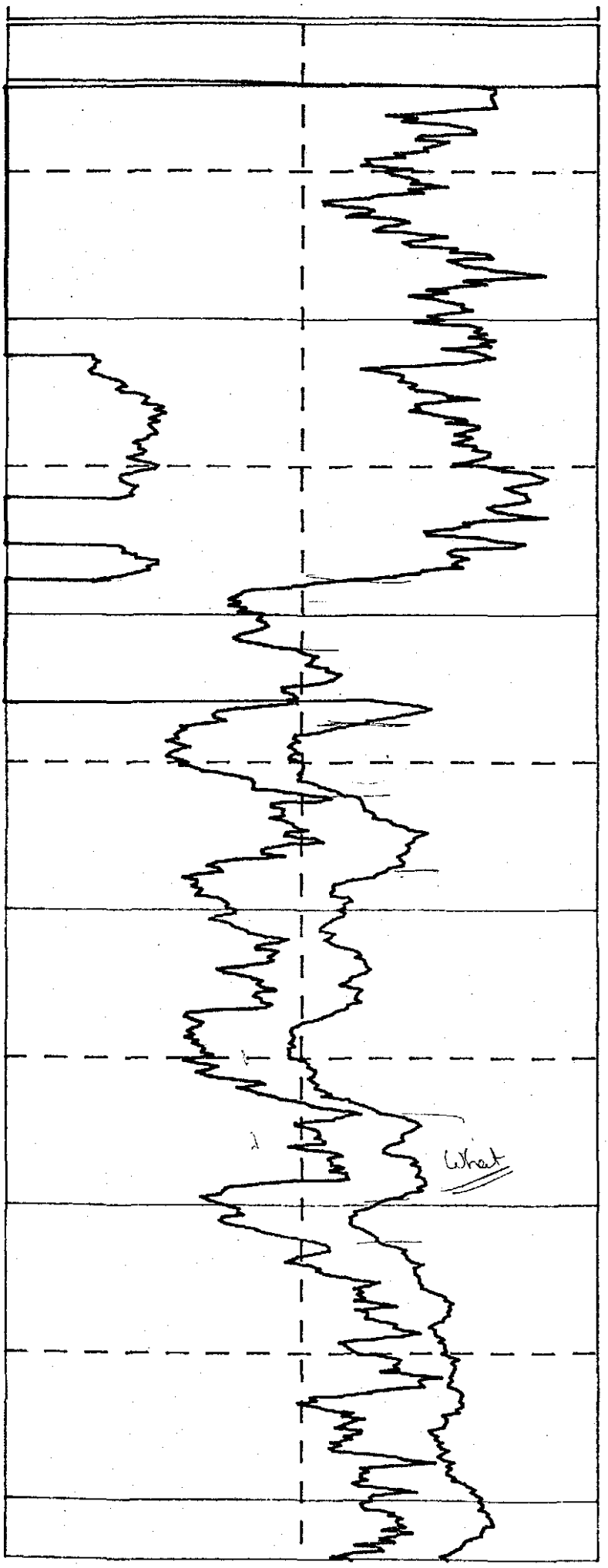
771457 BOREHOLE NO: C021

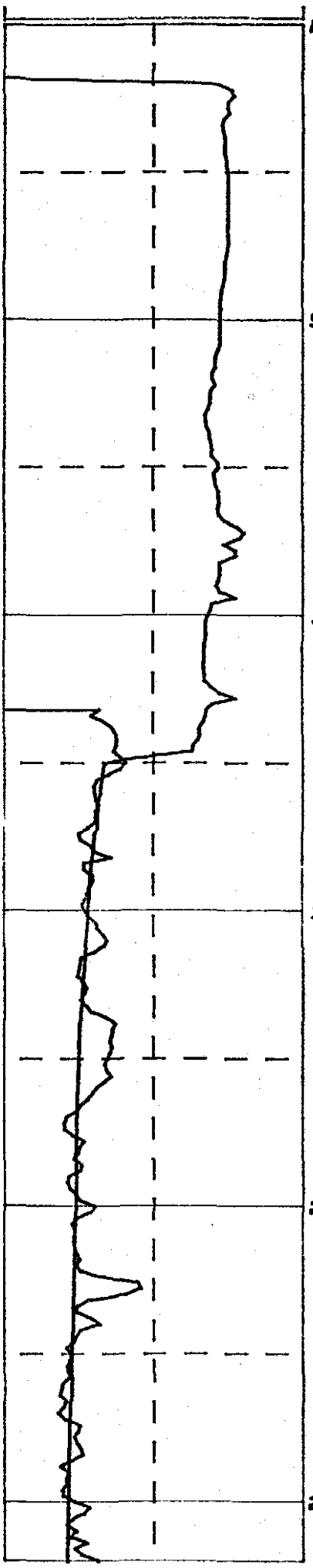
GAMMA (0-25 CPS)

L.S. DENSITY (1000-0 CPS)

RES (100-150 OHMS)

CALIPER (0-10INS)





MURDOCH GEOPHYSICS Corrected Playback: LOG: C021

PAGE NO. 1

139

771458

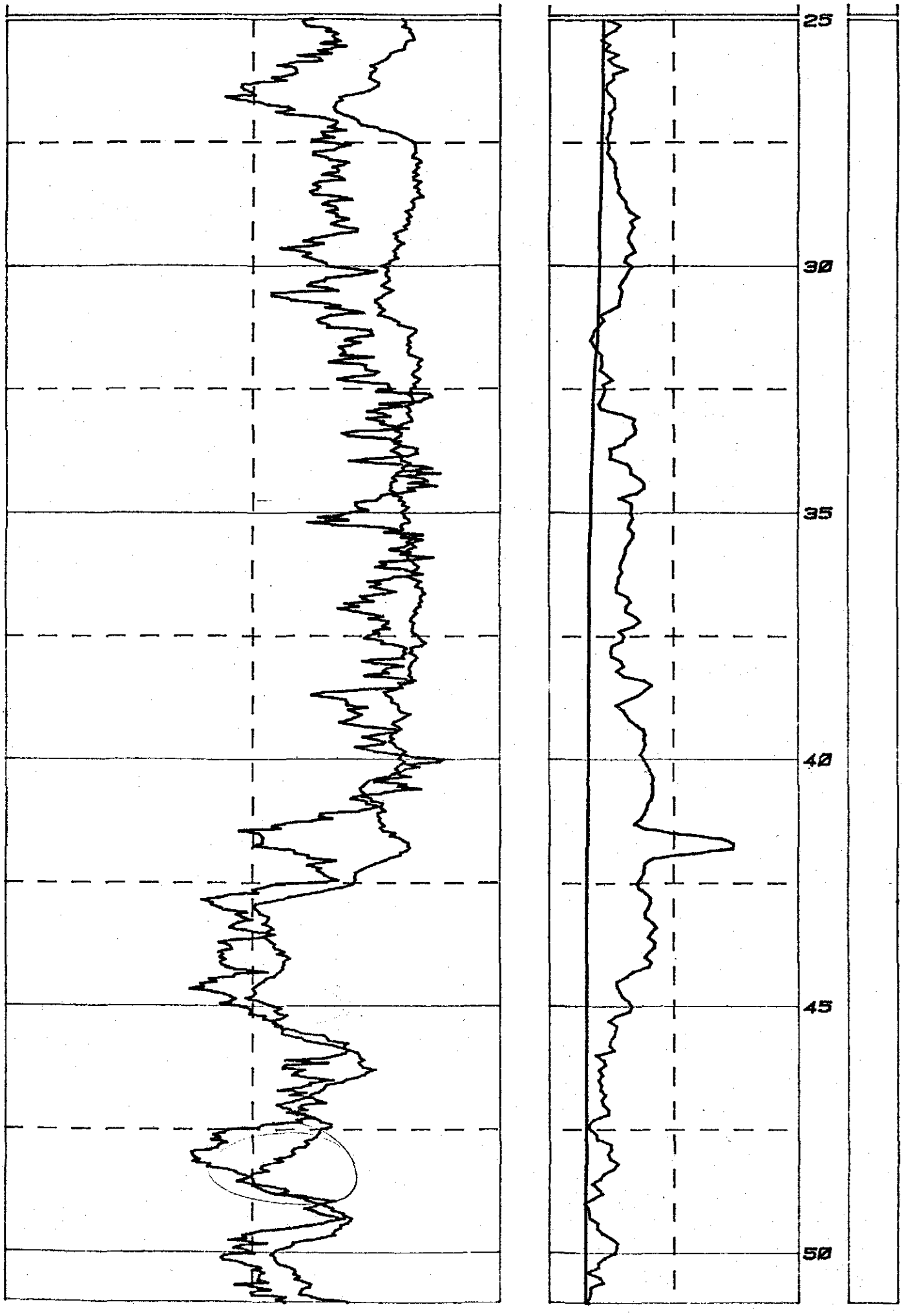
BOREHOLE NO: C021

GAMMA (0-25 CPS)

L.S. DENSITY (1000-0 CPS)

RES (100-150 OHMS)

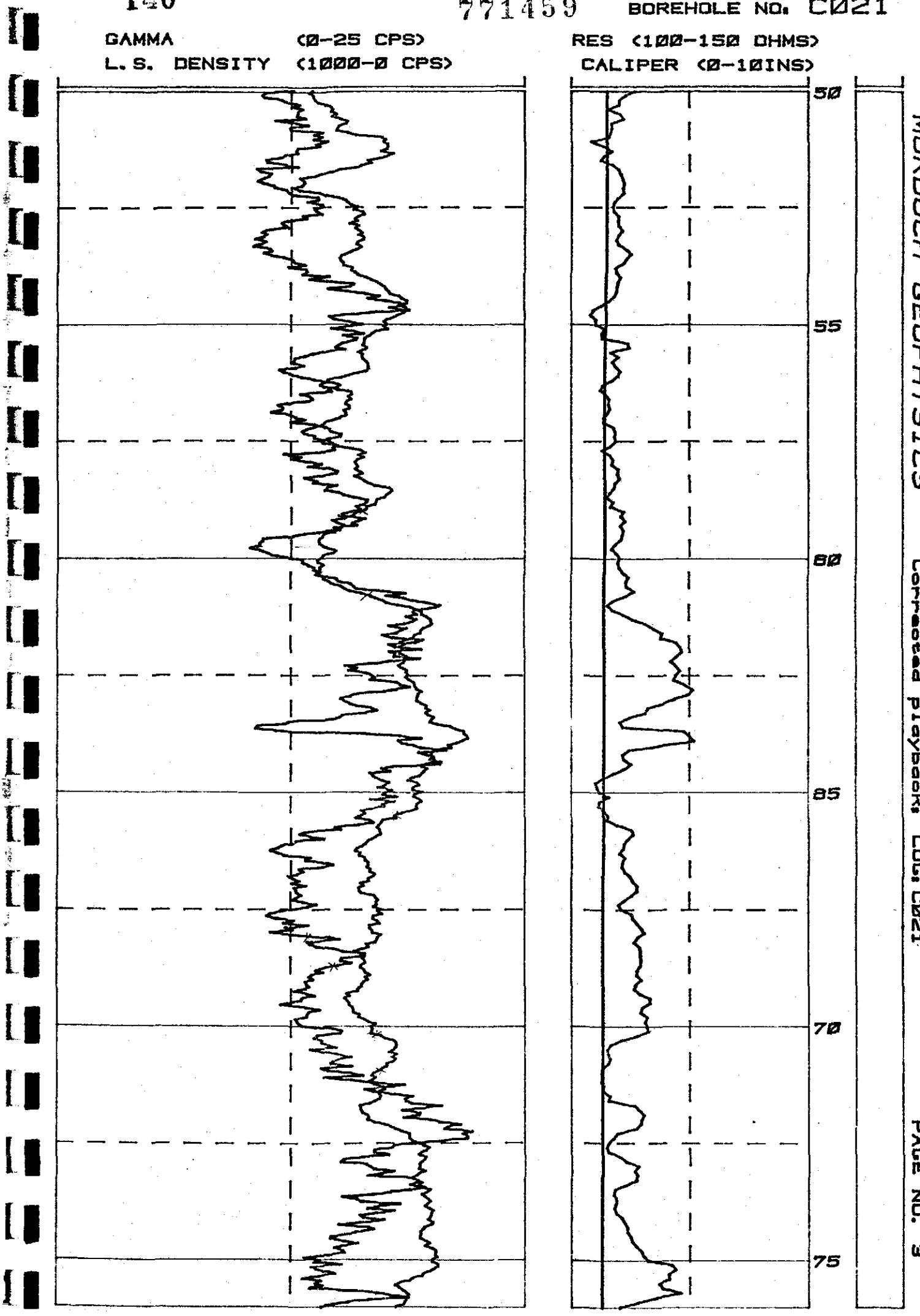
CALIPER (0-10INS)

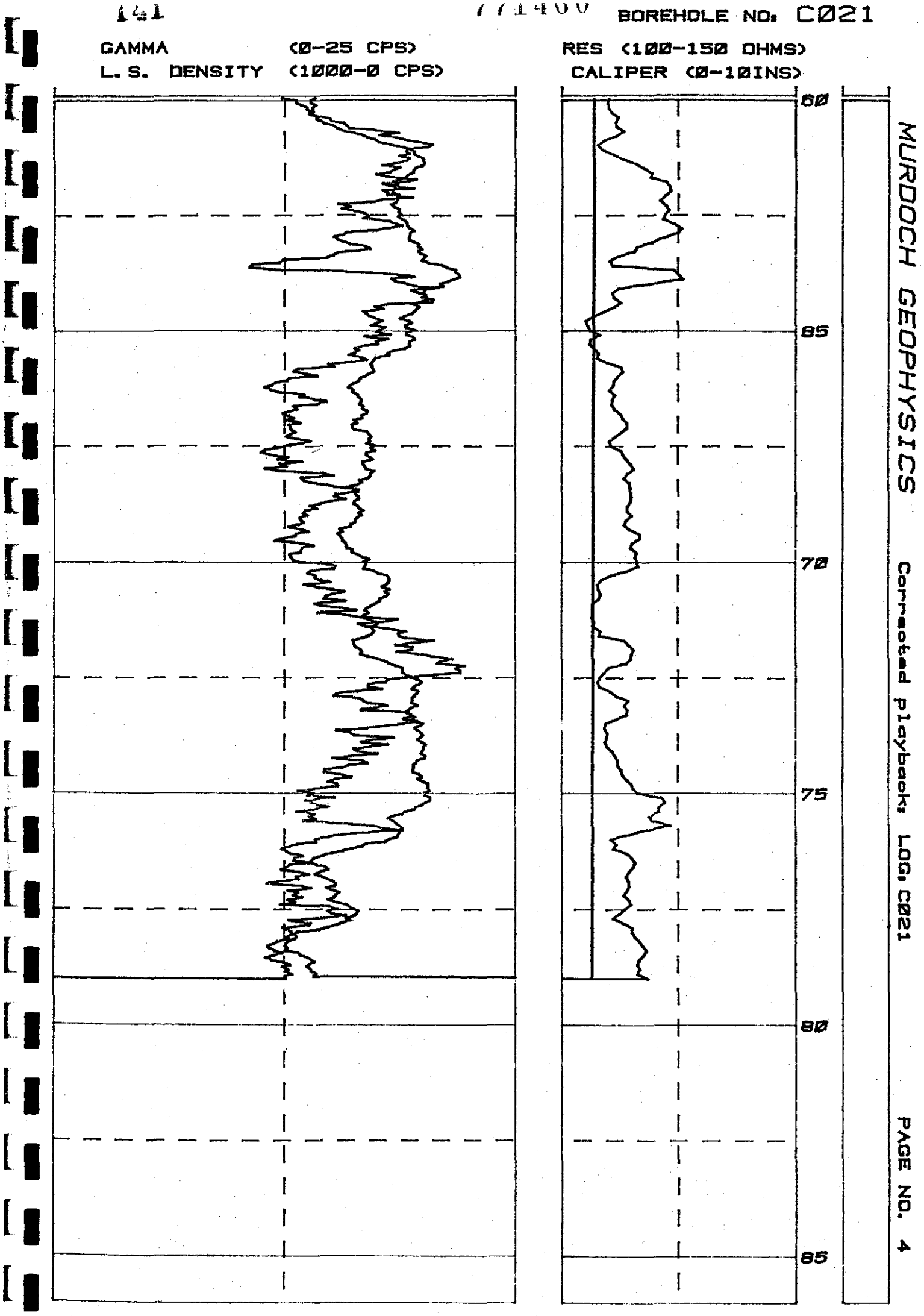


MURDOCH GEOPHYSICS Corrected playback: LOG: C021 PAGE NO. 2

140

771459 BOREHOLE NO. C021




GAMMA (0-25 CPS)
L.S. DENSITY (1000-0 CPS)
RES (100-150 OHMS)
CALIPER (0-10INS)
60
65
70
75
80
85
MURDOCH GEOPHYSICS
Corrected Playback: LOG: C021
PAGE NO. 4

142

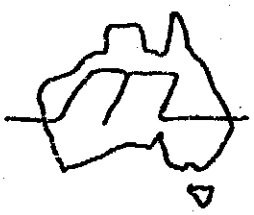
771461

BOREHOLE : C.022

CLIENT : C.S.R.

LOCATION: Westbury. Tasmania.

DATE LOGGED: 28-11-81 BY S. Morgan



EQUIPMENT DATA

LOG	Tape No./File	Recording Speed (m/min)	T.C. Sec.	Source	Borehole Position	Depth Logged
Resistivity (PR)		6	—	—	Free	0 m TO 63 m
Self Potential	—	—	—	—	Free	TO —
Nat. Gamma (γ)		6	2	—	Free	1m TO 63 m
γ-γ Density		6	1	Cs137	Sidewall	1m TO 62 m
Neutron		—	1	—	Sidewall	— TO —
Caliper		6	—	—	3-Arm	1m TO 62 m

BOREHOLE DATA

Date Drilled: 28-11-81 Tot. Depth Drilled (Driller): .....

Permanent Datum: G.L. Elevation of P.D.: .....

Casing: Type: ..... Depth: .....

Bit Sizes: 1 ..... From ..... to .....
2 ..... From ..... to .....

FLUID DATA: Nature: ..... SG.: .....

Viscosity: ..... Level: 5.4 metres

143

771462

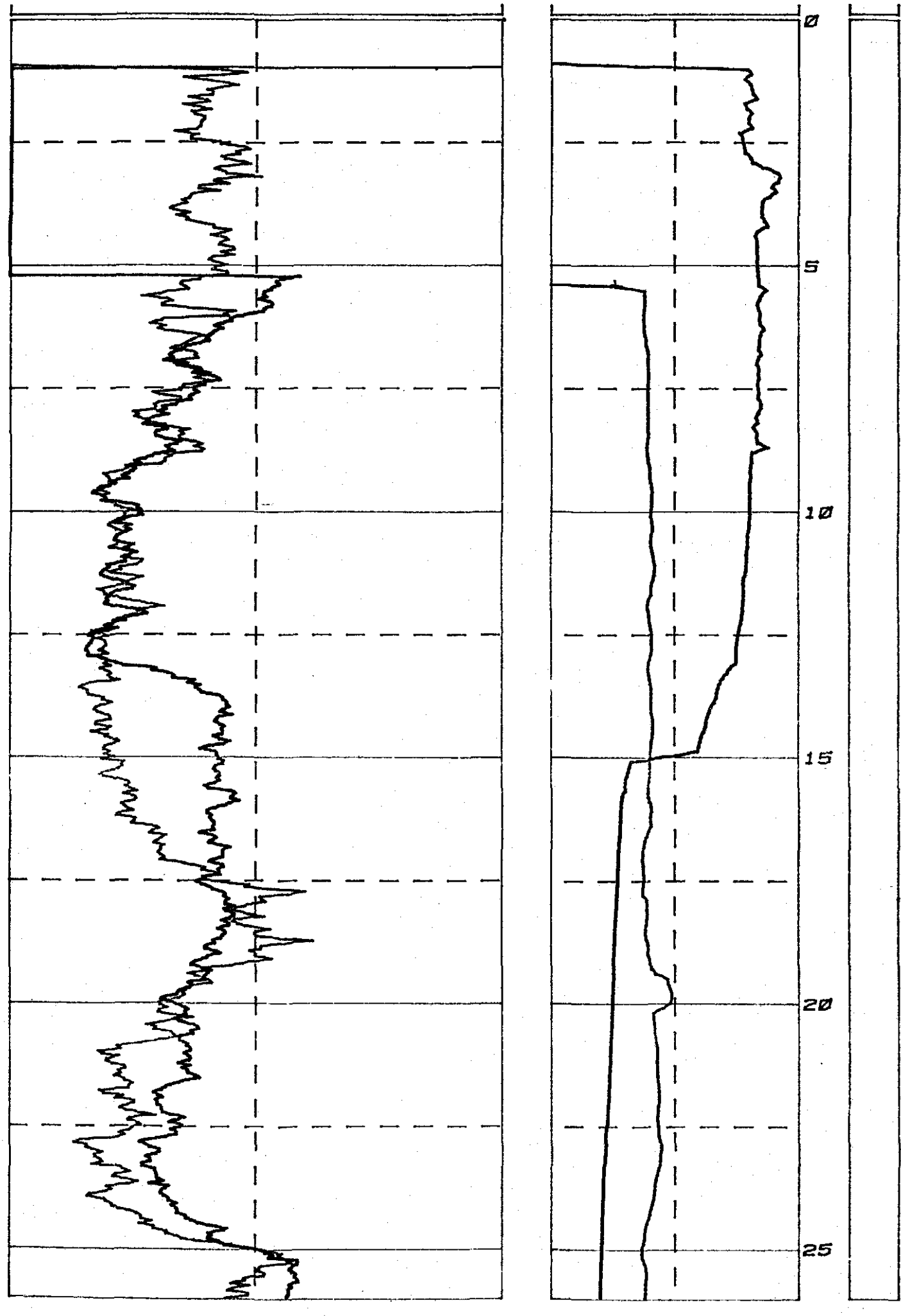
BOREHOLE NO. C022

GAMMA (0-25 CPS)

L.S. DENSITY (1000-0 CPS)

RES (50-300 OHMS)

CALIPER (0-10INS)



MURDOCH GEOPHYSICS Corrected playback LOG: C022

PAGE NO. 1

144

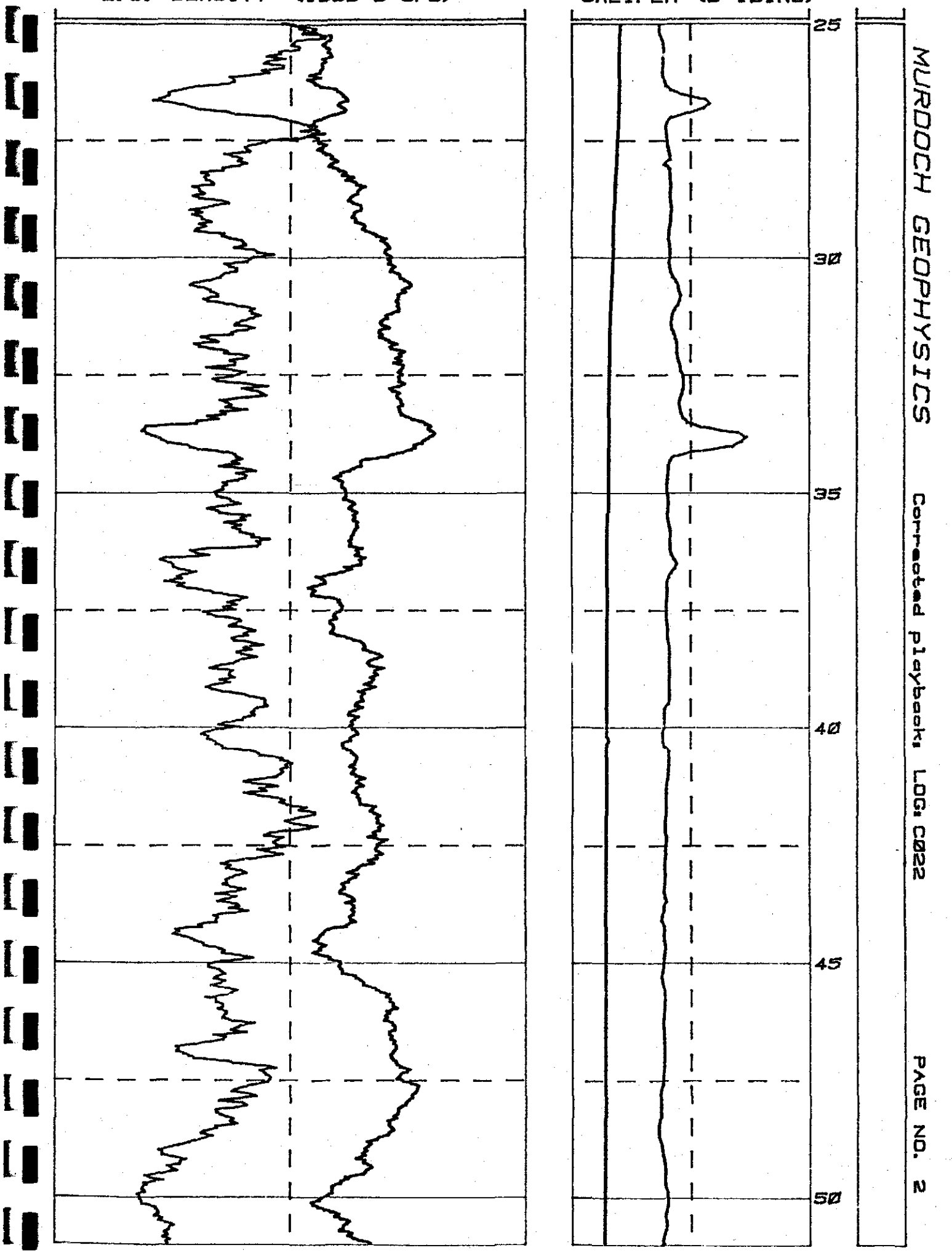
BOREHOLE NO: C022

GAMMA (0-25 CPS)

L.S. DENSITY (1000-0 CPS)

RES (50-300 OHMS)

CALIPER (0-10INS)



MURDOCH GEOPHYSICS Corrected playback: LOG: C022 PAGE NO. 2

145

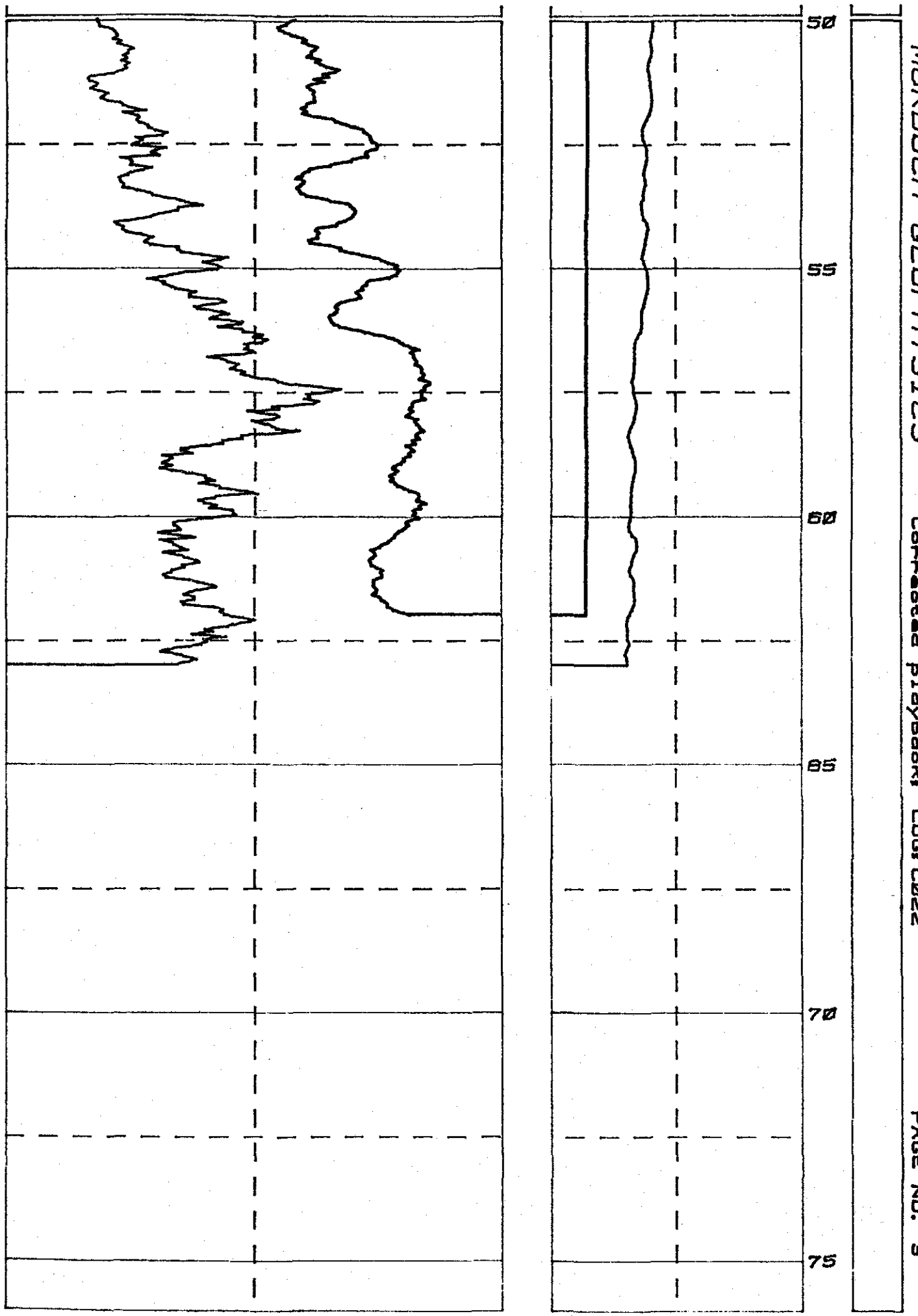
771464 BOREHOLE NO: C022

GAMMA (0-25 CPS)

L.S. DENSITY (1000-0 CPS)

RES (50-300 OHMS)

CALIPER (0-10INS)



MURDOCH GEOPHYSICS Corrected playback: LOG: C022 PAGE NO. 3

146 771465

BOREHOLE : C032

CLIENT : C.S.R.

LOCATION: Westbury. Tasmania.

DATE LOGGED: 30-11-81 BY S. Morgan



EQUIPMENT DATA

LOG	Tape No./File	Recording Speed (m/min)	T.C. Sec.	Source	Borehole Position	Depth Logged
Resistivity (PR)		6	—	—	Free	0 m TO 50 m
Self Potential	—	—	—	—	Free	TO —
Nat. Gamma (γ)		6	2	—	Free	1m TO 50 m
γ-γ Density		6	1	Cs137	Sidewall	1m TO 50 m
Neutron		—	1	—	Sidewall	— TO —
Caliper		6	—	—	3-Arm	1m TO 50 m

BOREHOLE DATA

Date Drilled: 30-11-81 Tot. Depth Drilled (Driller): .....

Permanent Datum: G.L. Elevation of P.D.: .....

Casing: Type: ..... Depth: .....

Bit Sizes: 1 ..... From ..... to .....
2 ..... From ..... to .....

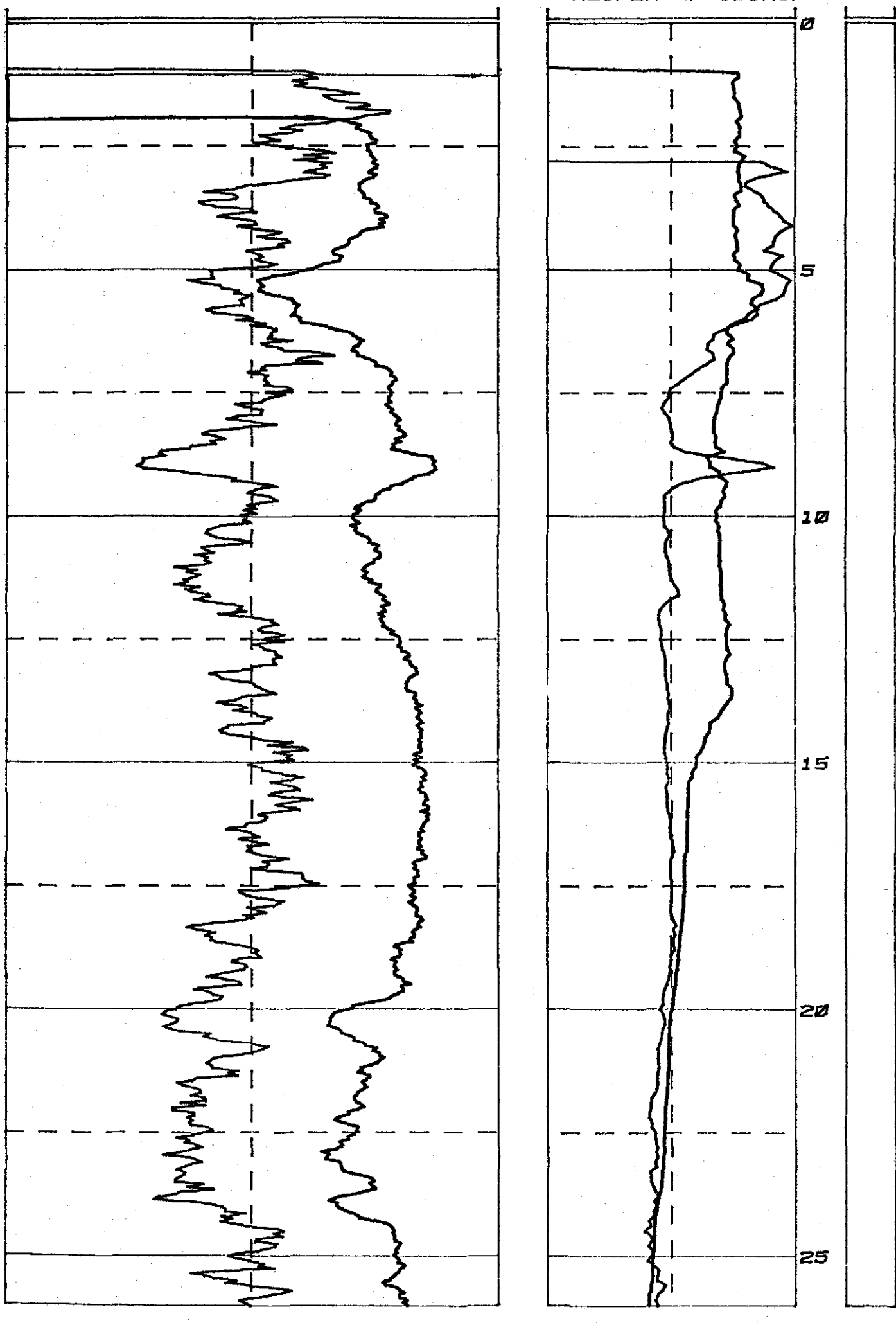
FLUID DATA: Nature: ..... S.G.: .....

Viscosity: ..... Level: 53 Notes

147 771466 BOREHOLE NO: C032

GAMMA (0-25 CPS)
L.S. DENSITY (1000-0 CPS)

RES (300-550 OHMS)
CALIPER (0-10INS)



MURDOCH GEOPHYSICS Corrected playback LOG: C032 PAGE NO. 1

148

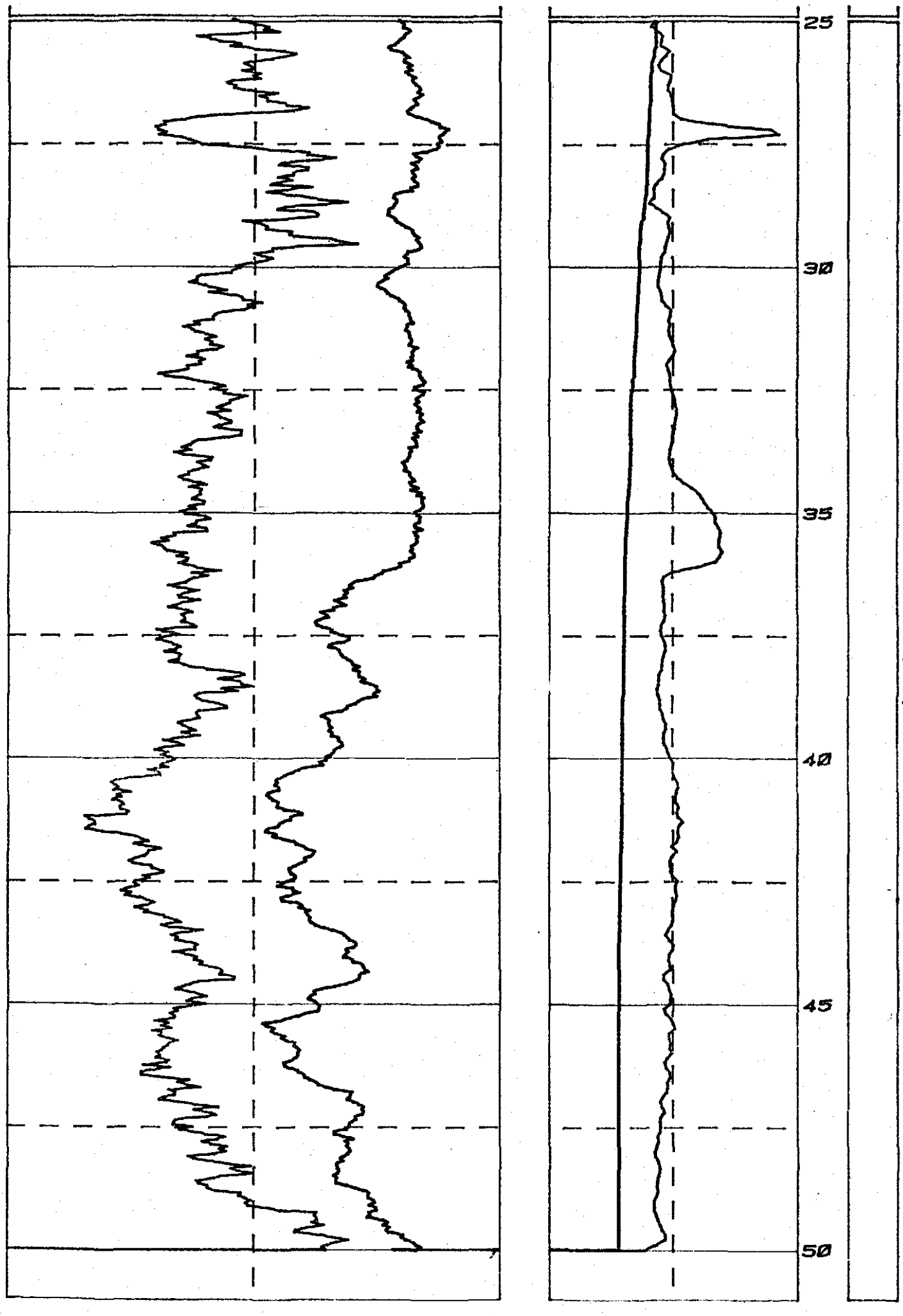
BOREHOLE NO: C032

GAMMA (0-25 CPS)

L.S. DENSITY (1000-0 CPS)

RES (300-550 OHMS)

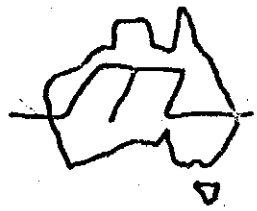
CALIPER (0-10INS)



MURDOCH GEOPHYSICS Corrected playback: LOG: C032 PAGE NO. 2

149

771468



BOREHOLE : C033 (1)

CLIENT : C.S.R.

LOCATION: Westbury. Tasmania.

DATE LOGGED: 1-12-81 BY S. Morgan

EQUIPMENT DATA

LOG	Tape No./File	Recording Speed (m/min)	T.C. Sec.	Source	Borehole Position	Depth Logged
Resistivity (PR)		6	—	—	Free	0 m TO 50 m
Self Potential	—	—	—	—	Free	TO —
Nat. Gamma (γ)		6	2	—	Free	1m TO 50 m
γ-γ Density		6	1	Cs137	Sidewall	1m TO 50 m
Neutron		—	1	—	Sidewall	— TO —
Caliper		6	—	—	3-Arm	1m TO 50 m

BOREHOLE DATA

Date Drilled: 1-12-81 Tot. Depth Drilled (Driller) : .....

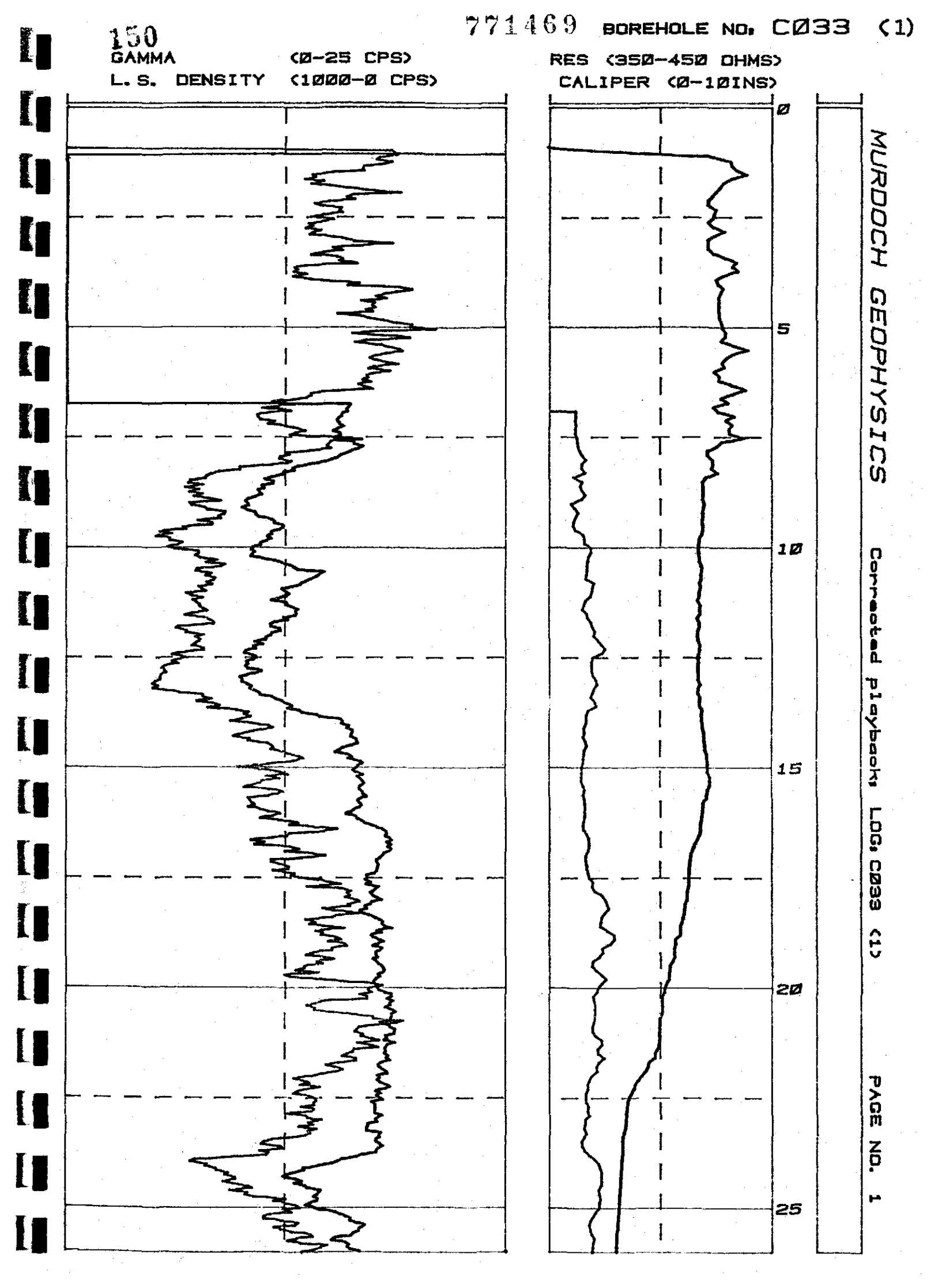
Permanent Datum: G.L. Elevation of P.D.: .....

Casing: Type: ..... Depth: .....

Bit Sizes: 1 ..... From ..... to .....
2 ..... From ..... to .....

FLUID DATA: Nature: ..... SG.: .....

Viscosity: ..... Level: 6.9 metres


771469 BOREHOLE NO. C033 (1)
150
GAMMA (0-25 CPS)
L.S. DENSITY (1000-0 CPS)
RES (350-450 OHMS)
CALIPER (0-10INS)
0
5
10
15
20
25
MURDOCH GEOPHYSICS
Corrected playback LOG: C033 (1)
PAGE NO. 1

151

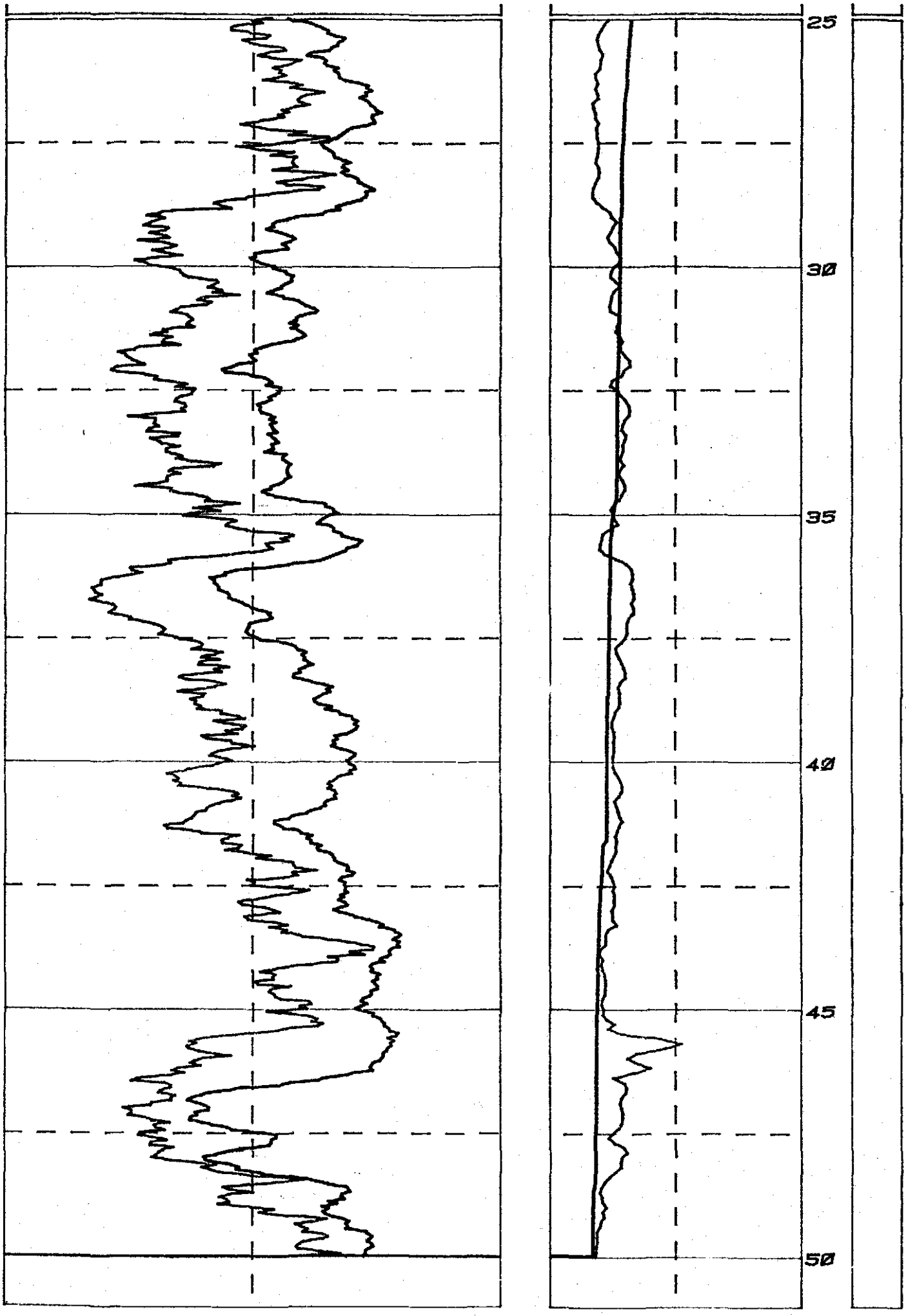
771470 BOREHOLE NO. C033 (1)

GAMMA (0-25 CPS)

L.S. DENSITY (1000-0 CPS)

RES (350-450 OHMS)

CALIPER (0-10INS)



MURDOCH GEOPHYSICS Corrected playback LOG: C033 (1) PAGE NO. 2

152 771471

BOREHOLE: C033(2)



CLIENT: C.S.R.

LOCATION: Westbury. Tasmania.

DATE LOGGED: 7-12-81 BY S. Morgan

EQUIPMENT DATA

LOG	Tape No./File	Recording Speed (m/min)	T.C. Sec.	Source	Borehole Position	Depth Logged
Resistivity (PR)		6	—	—	Free	0 m TO 38 m
Self Potential	—	—	—	—	Free	TO —
Nat. Gamma (γ)		6	2	—	Free	1m TO 38 m
γ-γ Density		6	1	Cs137	Sidewall	1m TO 38 m
Neutron		—	1	—	Sidewall	— TO —
Caliper		6	—	—	3-Arm	1m TO 38 m

BOREHOLE DATA

Date Drilled: 7-12-81 Tot. Depth Drilled (Driller): .....

Permanent Datum: G.L. Elevation of P.D.: .....

Casing: Type: ..... Depth: .....

Bit Sizes: 1 ..... From ..... to .....
2 ..... From ..... to .....

FLUID DATA: Nature: ..... SG.: .....

Viscosity: ..... Level: 7:1 metres

771474 BOREHOLE NO: C033 (2)

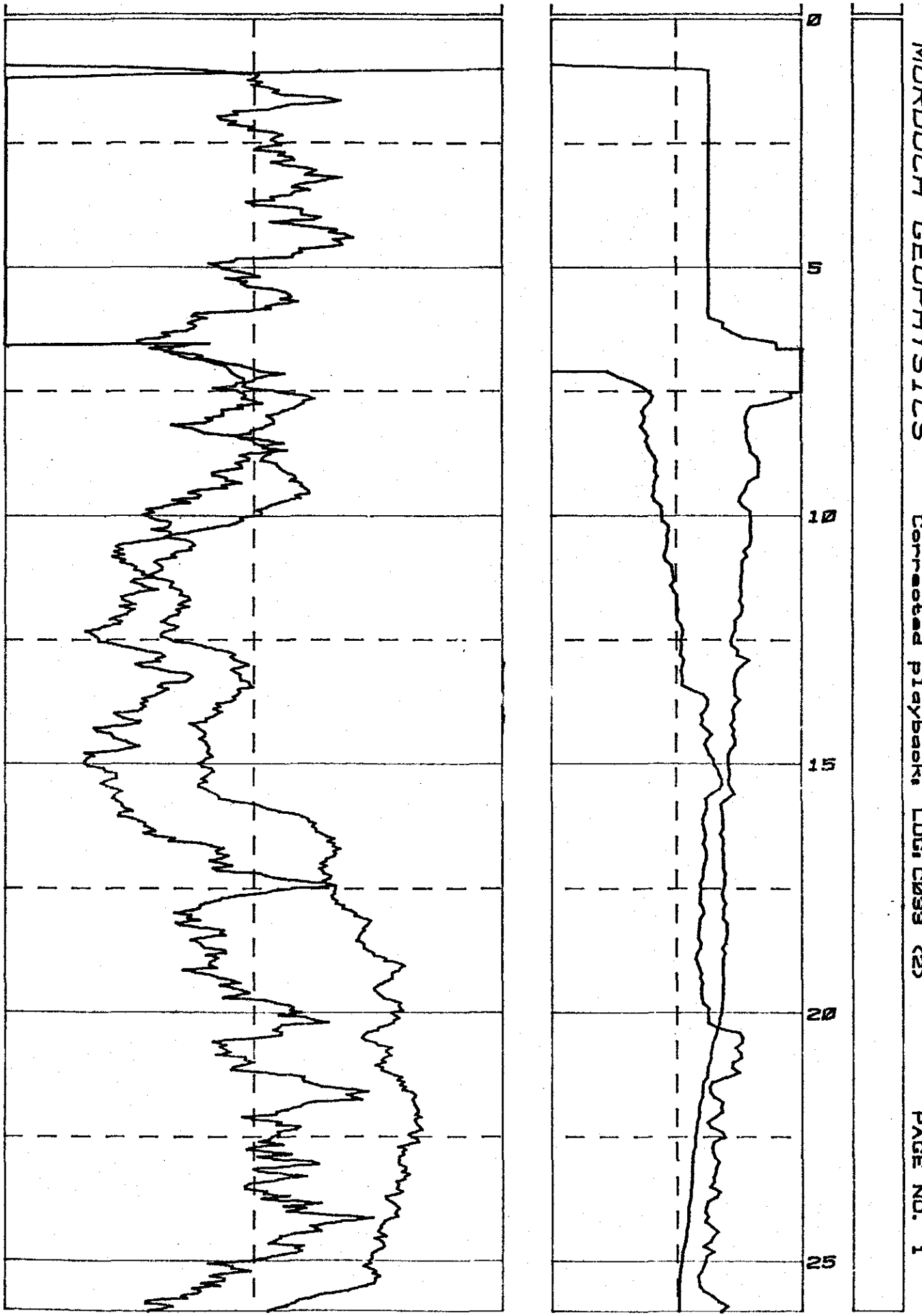
153

GAMMA (0-25 CPS)

L.S. DENSITY (1000-0 CPS)

RES (140-240 OHMS)

CALIPER (0-10INS)



MURDOCH GEOPHYSICS Corrected playback LOG: C033 (2) PAGE NO. 1

154

771473

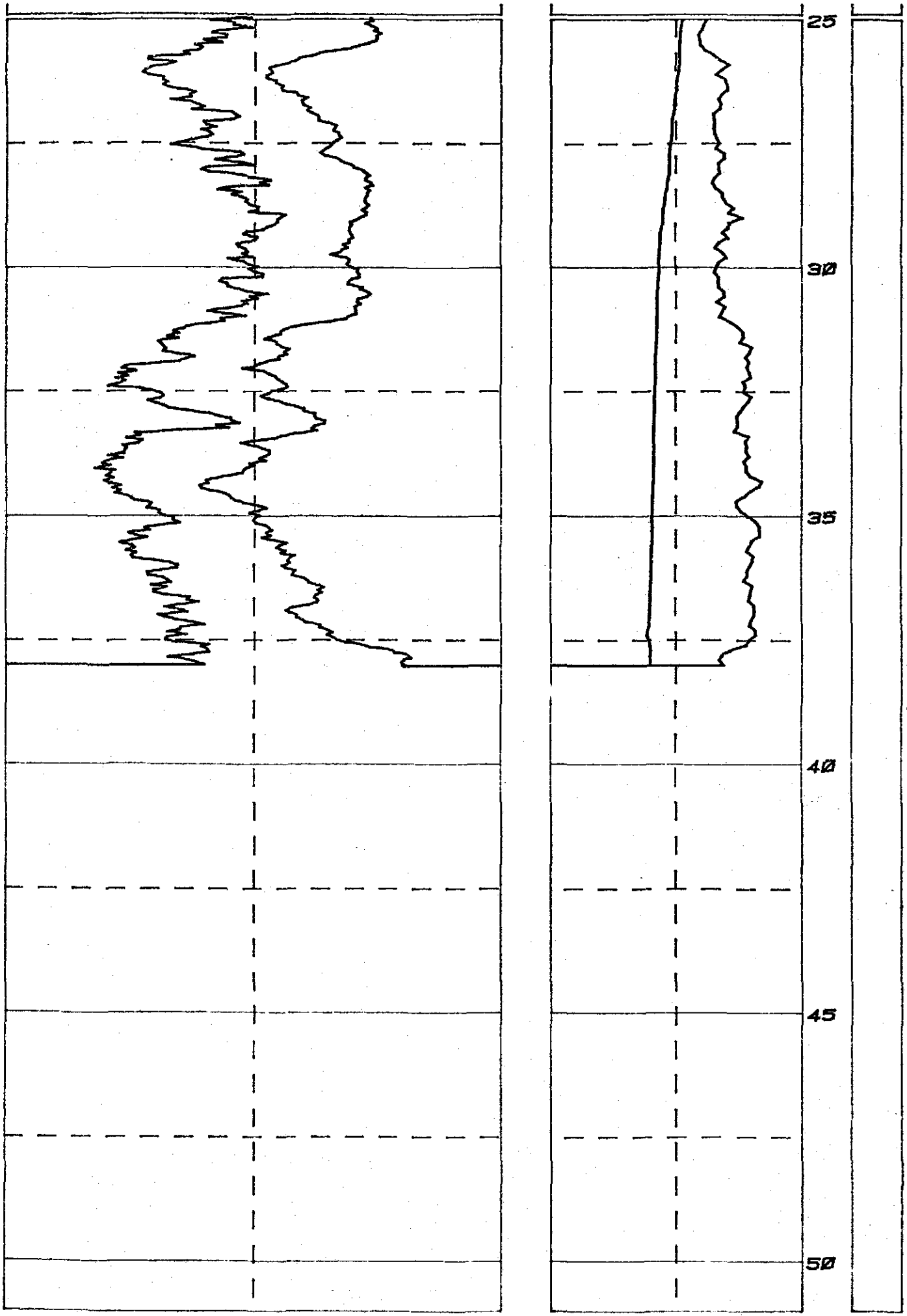
BOREHOLE NO: C033 (2

GAMMA (0-25 CPS)

L.S. DENSITY (1000-0 CPS)

RES (140-240 OHMS)

CALIPER (0-10INS)



MURDOCH GEOPHYSICS

Corrected playback: LOG: C033 (2)

PAGE NO. 2

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1.
77177

CENTURY GEOPHYSICAL CORPORATION OF AUSTRALIA

COMPANY	C.S.R.
BOREHOLE	R062
AREA	LAUNCESTON
ELEVATION	
SHIRE	
STATE	TAS.

BOREHOLE: R062 — DATE: 24-03-82
UNIT/OPERATOR: 8038 CREWS — FIELD OFFICE: BRISBANE

HOLE DATA

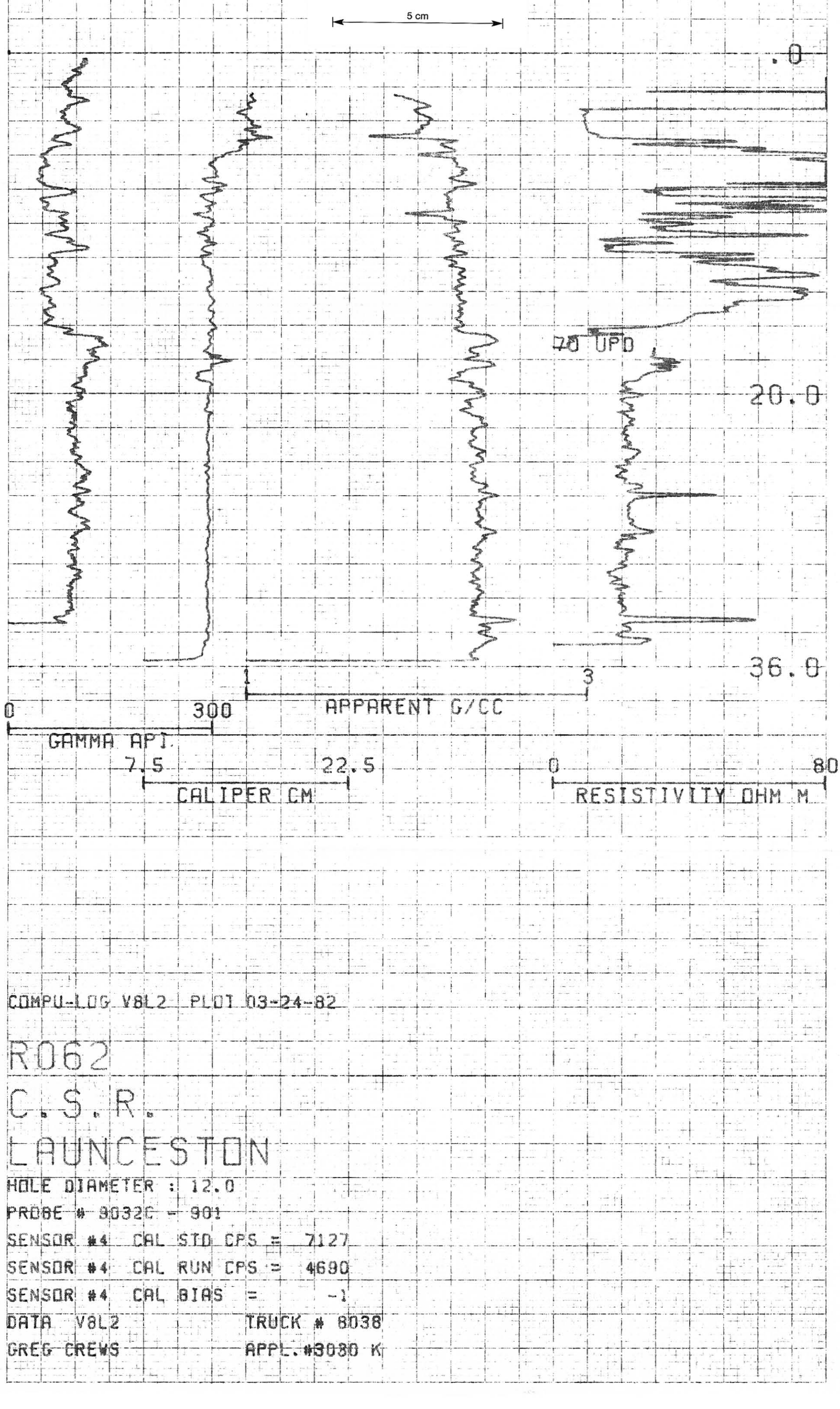
TOTAL DEPTH — DRILLER	36 M	BIT SIZE	12 CM
TOTAL DEPTH — LOGGER	36.0M	CASING — TYPE & SIZE	—
TOTAL METERAGE LOGGED	36.0M	CASING DEPTH	—
LOGGING SPEED	5M/MIN.	BOREHOLE FLUID	H2O
REFERENCE LEVEL	G.L.	FLUID RESISTIVITY	— @ °C
PROBE NO.	9032C-901	SOFTWARE LEVEL	V9L1
TAPE 1 TRACK 1		SCALE SELECTION	X OPERATOR / CLIENT

REMARKS

EQUIPMENT DATA

PROBE MODEL	9020	9032	9050/55	
PROBE DIAMETER	32mm	50mm	40mm	
NATURAL GAMMA — DETECTOR TYPE	NaI	NaI	NaI	
NATURAL GAMMA — DETECTOR SIZE	51mm x 114mm	51mm x 114mm	22mm x 100mm	
NATURAL GAMMA — STD. K-FACTOR	—	—	158 x 10⁻⁵	
NATURAL GAMMA — STD. DEADTIME	—	—	18 μsec	
NATURAL GAMMA — CALIB. MODEL LOC.	—	—	—	
NATURAL GAMMA — CALIB DATE	—	—	—	
NATURAL GAMMA — K FACTOR x 10	—	—	—	
NATURAL GAMMA — DEADTIME μsec	—	—	—	
NATURAL GAMMA — TEST READING	—	—	—	
NATURAL GAMMA — WATER FACTOR	—	—	—	
NATURAL GAMMA — CASING FACTOR	—	—	—	
DENSITY — DETECTOR TYPE	NaI	NaI	—	
DENSITY — DETECTOR SIZE	12mm x 38mm	12mm x 38mm	—	
DENSITY — SOURCE TYPE	—	—	—	
DENSITY — SOURCE NO.	—	483	—	
DENSITY — SOURCE STRENGTH	—	125mCi	—	
DENSITY — SOURCE SPACING	—	20cm	—	
NEUTRON — DETECTOR TYPE	—	—	—	
NEUTRON — DETECTOR SIZE	—	—	25mm x 150mm	
NEUTRON — SOURCE TYPE	—	—	Am-Be	
NEUTRON — SOURCE NO.	—	—	—	
NEUTRON — SOURCE STRENGTH	—	—	—	
NEUTRON — SOURCE SPACING	—	—	—	
SNGL PT RESISTANCE	—	—	16 ohms @ 60mV	
RESISTIVITY	1cm Focused	2.5cm Focused	—	
SELF POTENTIAL	—	—	YES	
TEMPERATURE	—	—	YES	
DEVIATION	—	—	NO? YES	
CALIPER	YES	YES	—	

HARDCASE PRINTS 2048



ART NO. 786-0040
CENTURY GEOPHYSICAL CORP. PART NO. 786-0040

CENTURY GEOPHYSICAL CORPORATION OF AUSTRALIA

BOREHOLE	R062
DATE	24-03-82
CENTURY OPERATOR	8038 CREWS
FIELD OFFICE	BRISBANE

COMPANY: C.S.R.
BOREHOLE: R062
AREA: LAUNCESTON
ELEVATION:
STATE: TAS.

HOLE DATA

TOTAL DEPTH — DRILLER	36M	BIT SIZE	12 CM
TOTAL DEPTH — LOGGER	36.0M	CASING — TYPE & SIZE	—
TOTAL REFERENCE LOGGED	36.0M	CASING DEPTH	—
LOGGING SPEED	18M/MIN.	BOREHOLE FLUID	H2O
REFERENCE LEVEL	G.L.	FLUID RESISTIVITY	—
PROBE NO.	9050-242	SOFTWARE LEVEL	V9L2
TAPE 1 TRACK 2		SCALE SELECTION	COPERATOR CLIENT

REMARKS:

EQUIPMENT DATA

PROBE NO.						
PROBE DIAMETER						
NATURAL GAMMA	DETECTOR TYPE					
	DETECTOR SIZE					
	DETECTOR SPACING					
	SOURCE NO.					
	SOURCE DIMENSION					
	SOURCE SPACING					
	CALIB. DEVICE					
	CALIB. SPACING					
	ATTENUATOR					
	CALIBRATOR					
	DIST. BEARING					
	WATER FACTOR					
	CASING FACTOR					
DENSITY	DETECTOR TYPE					
	DETECTOR SIZE					
	SOURCE TYPE					
	SOURCE NO.					
	SOURCE DIMENSION					
	SOURCE SPACING					
NEUTRON	DETECTOR TYPE					
	DETECTOR SIZE					
	SOURCE TYPE					
	SOURCE NO.					
	SOURCE DIMENSION					
	SOURCE SPACING					
DIAL PLATE NUMBER						
RESISTIVITY						
SILT POTENTIAL						
TEMPERATURE						
DEVIATION						
CALIPER						

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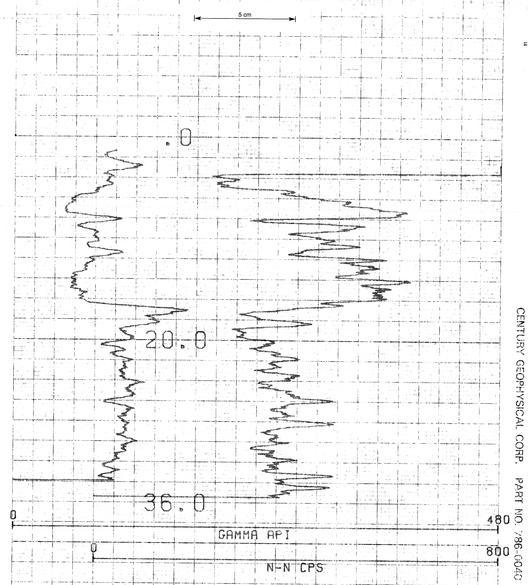
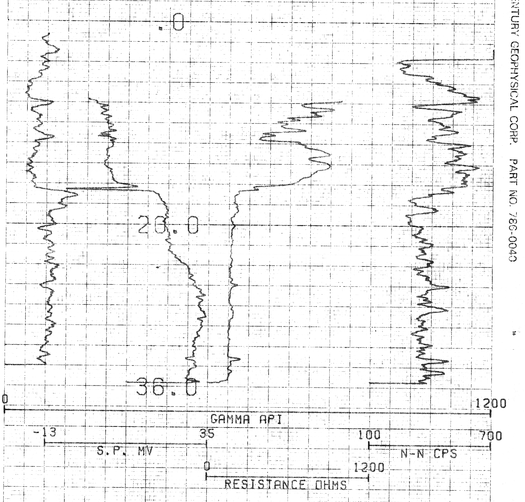




COMPU-LOG V8L2 PLOT 03-24-82

R062
C.S.R.
LAUNCESTON
HOLE DIAMETER : 12.0
PROBE # 9055A - 242
SENSOR #4 CAL STD CPS = 152
SENSOR #4 CAL RUN CPS = 153
SENSOR #4 CAL BIAS = 0
DATA V8L2 TRUCK # 8038
GREG CREWS APPL. #1005 K

CENTURY GEOPHYSICAL CORP. PART NO. 786-0040

CENTURY GEOPHYSICAL CORP. PART NO. 786-0040

CENTURY GEOPHYSICAL CORP. PART NO. 786-0040

CENTURY GEOPHYSICAL CORPORATION OF AUSTRALIA

COMPANY	C.S.R.
BOREHOLE	R063
AREA	LAUNCESTON
ELEVATION	
SHIRE	
STATE	TAS.

BOREHOLE: R063 — DATE: 24-03-82
UNIT/OPERATOR: 8038 CREWS — FIELD OFFICE: BRISBANE

HOLE DATA

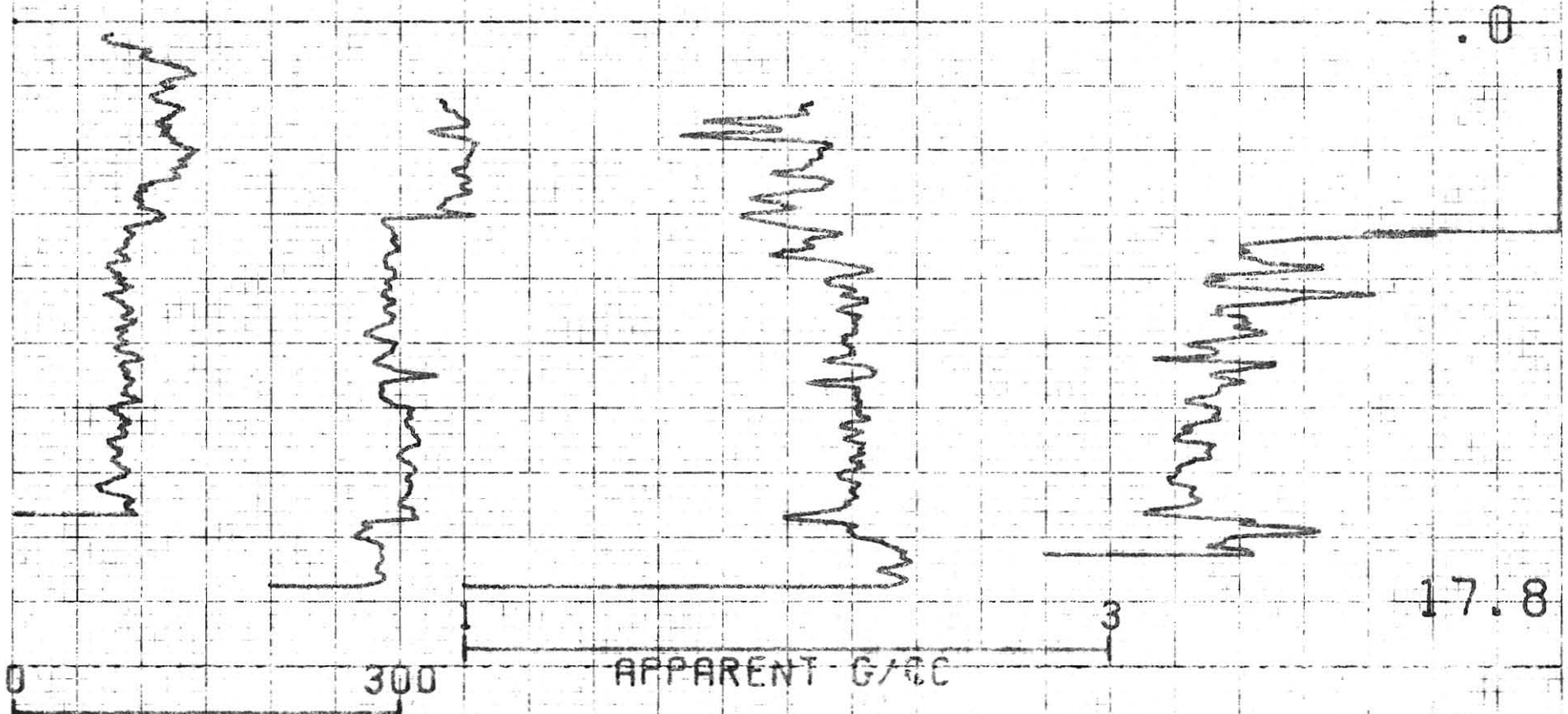
TOTAL DEPTH — DRILLER	18M	BIT SIZE	12CM
TOTAL DEPTH — LOGGER	17.8M	CASING — TYPE & SIZE	—
TOTAL METERAGE LOGGED	17.8M	CASING DEPTH	—
LOGGING SPEED	5M/MIN.	BOREHOLE FLUID	H2O
REFERENCE LEVEL	G.L.	FLUID RESISTIVITY	— @ — °C
PROBE NO.	9032C-901	SOFTWARE LEVEL	V9L1
TAPE 1. TRACK 3		SCALE SELECTION	✗ OPERATOR / CLIENT

REMARKS:

EQUIPMENT DATA

PROBE MODEL	9035	9032	9050/35
PROBE DIAMETER	102mm	86mm	86mm
NATURAL GAMMA — DETECTOR TYPE	Nal	Nal	Nal
DETECTOR SIZE	51mm x 114mm	51mm x 114mm	22mm x 102mm
STD. K FACTOR	—	—	358 c/m
STD. DEADTIME	—	—	10 μsec
CALIB. MODEL LOC.	—	—	—
CALIB DATE	—	—	—
K-FACTOR x 10	—	—	—
DEADTIME μsec	—	—	—
TEST READING	—	—	—
WATER FACTOR	—	—	—
CASING FACTOR	—	—	—
DENSITY — DETECTOR TYPE	Nal	Nal	—
DETECTOR SIZE	12mm x 76mm	12mm x 38mm	—
SOURCE TYPE	Cs	Cs137	—
SOURCE NO.		483	—
SOURCE STRENGTH		125mG	—
SOURCE SPACING		20cm	—
NEUTRON — DETECTOR TYPE	—	—	Nal
DETECTOR SIZE	—	—	25mm x 150mm
SOURCE TYPE	—	—	Am Be
SOURCE NO.	—	—	—
SOURCE STRENGTH	—	—	—
SOURCE SPACING	—	—	—
SNGL PT RESISTANCE	—	—	38mm x 63mm
RESISTIVITY	16cm focused	2.5cm focused	—
SELF POTENTIAL	—	—	YES
TEMPERATURE	—	—	YES
DEVIATION	—	—	NO/YES
CALIPER	YES	YES	—

JANNOCK PRESS 269 0044



COMPU-LOG V8L2 PLOT 03-24-82

R063

C.S.R.

LAUNCESTON

HOLE DIAMETER : 12.0
PROBE # 9032C - 901
SENSOR #4 CAL STD CPS = 7127
SENSOR #4 CAL RUN CPS = 4690
SENSOR #4 CAL BIAS = -1
DATA V8L2 TRUCK # 8038
GREG CREWS APPL.# A

CENTURY GEOPHYSICAL CORP. PART NO. 786-0040

CENTURY G

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771476

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CENTURY GEOPHYSICAL CORPORATION OF AUSTRALIA

BOREHOLE	R063
DATE	24-03-82
UNIT/OPERATOR	8038 CREWS
FIELD OFFICE	BRISBANE

COMPANY: C.S.R.
BOREHOLE: R063
AREA: LAUNCESTON
ELEVATION:
SHIRE:
STATE: TAS.

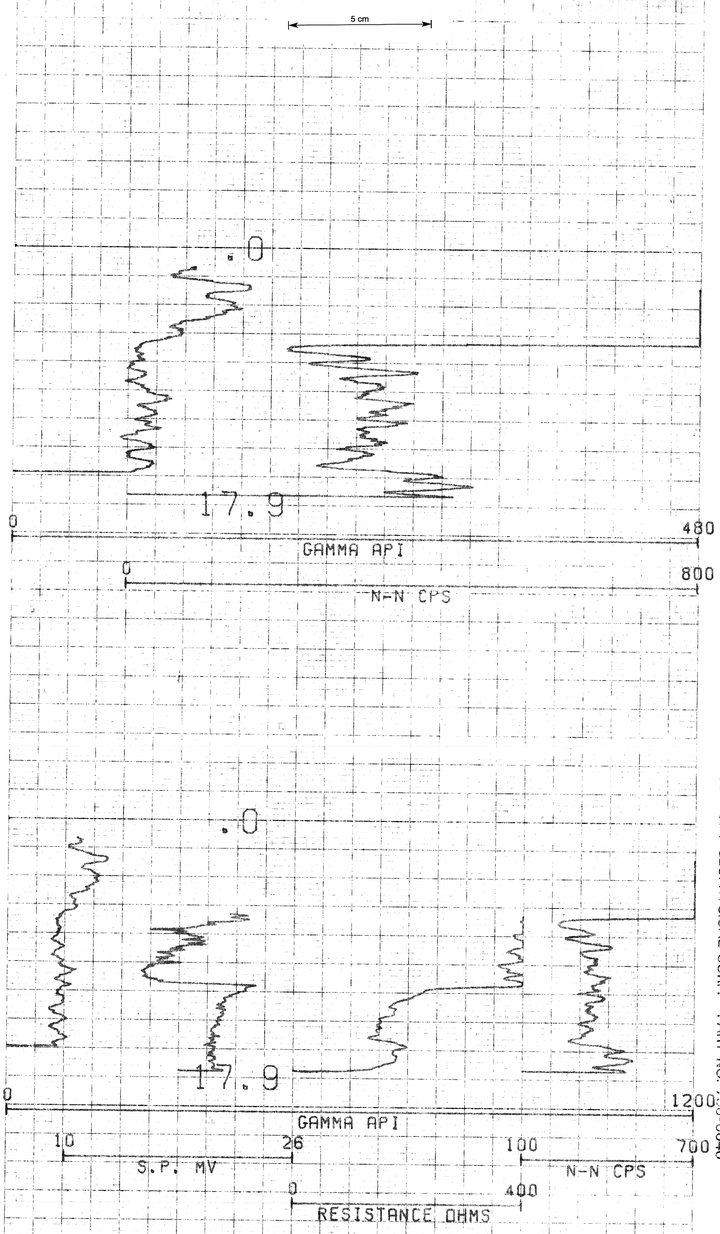
HOLE DATA

TOTAL DEPTH — DRILLER	18M	BIT SIZE	12CM
TOTAL DEPTH — LOGGER	17.9M	CASING — TYPE & SIZE	—
TOTAL METERAGE LOGGED	17.9M	CASING DEPTH	—
LOGGING SPEED	18M/MIN.	BOREHOLE FLUID	H_2O
REFERENCE LEVEL	G.L.	FLUID RESISTIVITY	— °C
PROBE NO.	9050-242	SOFTWARE LEVEL	V9L1
TAPE 1 TRACK 4		SCALE SELECTION	☒ OPERATOR ☐ CLIENT

REMARKS:

EQUIPMENT DATA

PROBE MODEL						
PROBE DIAMETER						
NATURAL GAMMA	DETECTOR TYPE					
	DETECTOR SIZE					
	STD. X-FACTOR					
	STD. DEADTIME					
	CALIB. MODEL LOG					
	CALIB DATE					
	X-FACTOR					
	DEADTIME					
	TEST READING					
	WATER FACTOR					
	CASING FACTOR					
DENSITY	DETECTOR TYPE					
	DETECTOR SIZE					
	SOURCE TYPE					
	SOURCE NO.					
	SOURCE STRENGTH					
	SOURCE SPACING					
NEUTRON	DETECTOR TYPE					
	DETECTOR SIZE					
	SOURCE TYPE					
	SOURCE NO.			377B		
	SOURCE STRENGTH			1Ci		
	SOURCE SPACING			45cm		
SINGL PT RESISTANCE						
RESISTIVITY						
SELF POTENTIAL						
TEMPERATURE						
DEVIATION						
CALIPER						



COMPU-LOG V8L2 PLOT 03-24-82

R063
C.S.R.
LAUNCESTON

HOLE DIAMETER : 12.0
PROBE # 9055A - 242
SENSOR #4 CAL STD CPS = 152
SENSOR #4 CAL RUN CPS = 153
SENSOR #4 CAL BIAS = 0
DATA V8L2 TRUCK # 8038
GREG CREWS APPL.#1005 K

GEOPHYSICAL CORP. PART NO. 786-0040
CENTURY GEOPHYSICAL CORP. PART NO. 786-0040
CENTURY GEOPHYSICA

CENTURY GEOPHYSICAL CORPORATION OF AUSTRALIA

COMPANY: C.S.R.
BOREHOLE: R064
AREA: LAUNCESTON
ELEVATION:
SHIRE:
STATE: TAS.

HOLE DATA

TOTAL DEPTH — DRILLER	90M	BIT SIZE	12cm
TOTAL DEPTH — LOGGER	90.0M	CASING — TYPE & SIZE	—
TOTAL METERAGE LOGGED	90.0M	CASING DEPTH	—
LOGGING SPEED	9 M/MIN.	BOREHOLE FLUID	H2O
REFERENCE LEVEL	G.L.	FLUID RESISTIVITY	— @ — °C
PROBE NO.	90321-896	SOFTWARE LEVEL	V9L1
TAPE 2 TRACK 1		SCALE SELECTION	OPERATOR / CLIENT

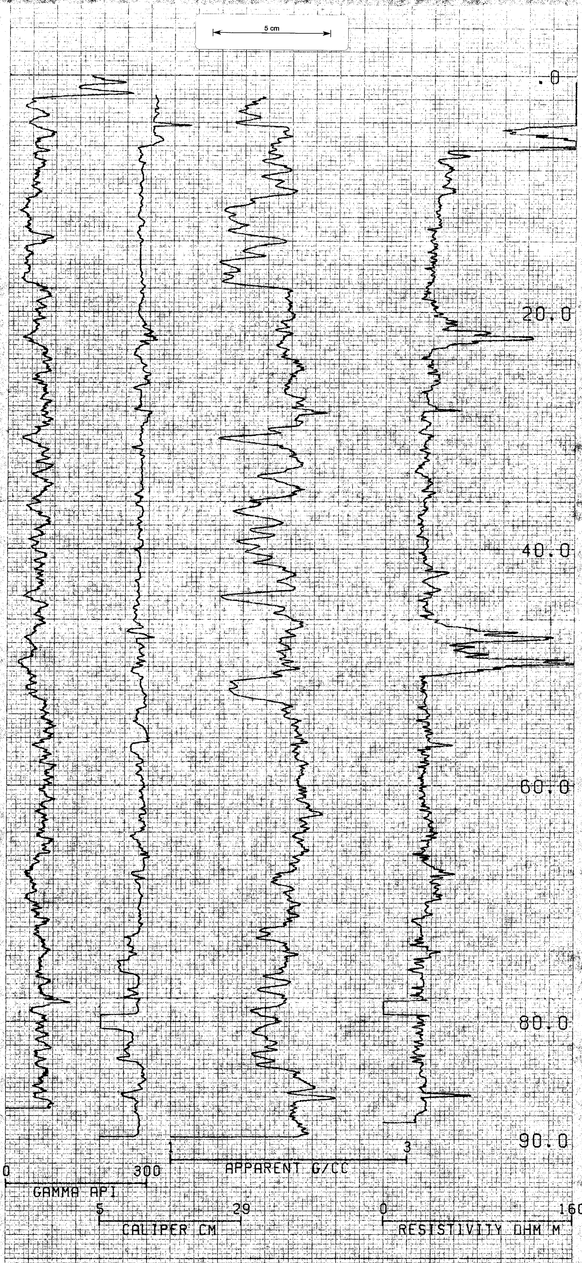
REMARKS:

BOREHOLE: R064 DATE: 24-03-82
UNIT/OPERATOR: 8038 CREWS FIELD OFFICE: BRISBANE

EQUIPMENT DATA

PROBE MODEL	9032	9032.1	9032.1C
PROBE DIAMETER	90mm	90mm	48mm
DETECTOR TYPE	NaI	NaI	NaI
DETECTOR SIZE	50mm x 114mm	50mm x 114mm	50mm x 100mm
STD. KANGORO	—	—	10µ R + 10µ
STD. DEAD TIME	—	—	1.5 µsec
CALIB. MODEL LOC.	—	—	—
CALIB. DATE	—	—	—
LOCATION ± 10.1°	—	—	—
DEAD TIME µ sec	—	—	—
TEST READING	—	—	—
WATER FACTOR	—	—	—
CASING FACTOR	—	—	—
DETECTOR TYPE	—	—	—
DETECTOR SIZE	75mm x 38mm	75mm x 38mm	—
SOURCE TYPE	226Ra	226Ra	—
SOURCE NO.	53161	53161	—
SOURCE STRENGTH	1 Gi	1 Gi	—
SOURCE SPACING	45cm	45cm	—
DETECTOR TYPE	—	—	NaI
DETECTOR SIZE	—	—	25mm x 75mm
SOURCE TYPE	—	—	241Am
SOURCE NO.	—	—	—
SOURCE STRENGTH	—	—	—
SOURCE SPACING	—	—	—
CNGL PT RESISTANCE	—	—	2000Ω x 0.2mA
RESISTIVITY	75cm Focused	2.5m Normal	—
SELF POTENTIAL	—	—	—
TEMPERATURE	—	—	—
DEVIATION	—	—	50-110
CALIPER	2 - 15	—	—

MAGNETIC MARKS 100 GAMMA



COMPU-LOG V8L2 PLOT 03-24-82

R064

C.S.R.

LAUNCESTON

HOLE DIAMETER : 12.0
PROBE # 90321- 896
SENSOR #4 CAL STD CPS = 4393
SENSOR #4 CAL RUN CPS = 4817
SENSOR #4 CAL BIAS = 0
DATA V8L1 TRUCK # 8038
GREG CREWS APPL.#1030 K

PART NO. 786-0040 CENTURY GEOPHYSICAL CORP. PART NO. 786-0040 CENTURY GEOPHYSICAL CORP. PART NO. 786-0040 CENTURY G

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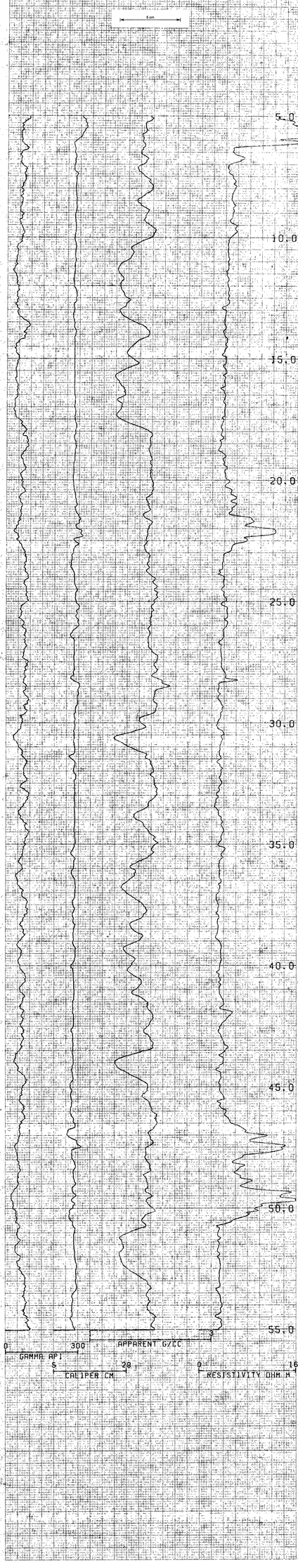
COMPU-LOG VBL2 PLOT 03-24-82

R064
C.S.R.
LAUNCESTON

HOLE DIAMETER : 12.0
PROBE # 8032L1- 896
SENSOR #4 CAL STD CPS = 4383
SENSOR #4 CAL RUN CPS = 4817
SENSOR #4 CAL BIAS = 0
DATA VBL1 TRUCK # 8038
GREG CREWS APPL.#7 K



CENTURY GEOPHYSICAL CORP. PART NO. 786-0040
CENTURY GEOPHYSICAL CORP. PART NO. 786-0040
CENTURY GEOPHYSICAL CORP. PART NO. 786-0040
CENTURY GEOPHYSICAL CORP. PART NO. 786-0040
CENTURY GEOPHYSICAL CORP. PART NO. 786-0040

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CENTURY GEOPHYSICAL CORPORATION OF AUSTRALIA

BOREHOLE	R064
DATE	24-03-82
UNIT/OPERATOR	8038 CREWS
FIELD OFFICE	BRISBANE

COMPANY: C.S.R.
BOREHOLE: R064
AREA: LAUNCESTON
ELEVATION:
SHIRE:
STATE: TAS.

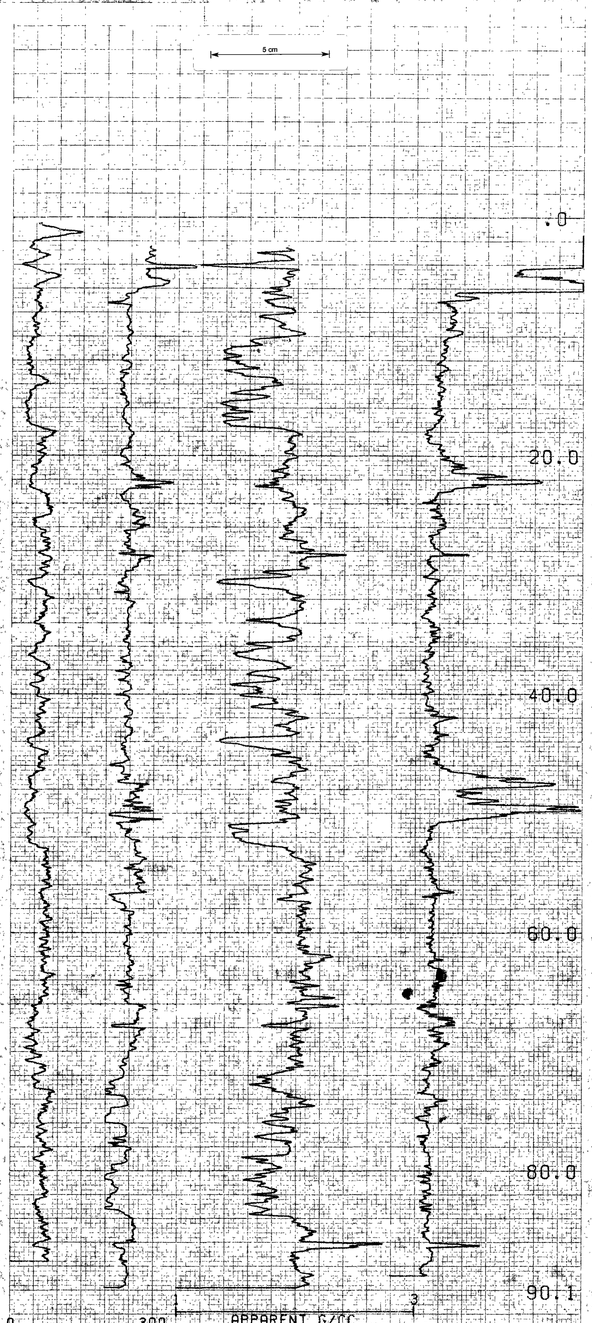
HOLE DATA

TOTAL DEPTH — DRILLER	90M	BIT SIZE	12CM
TOTAL DEPTH — LOGGER	90.1M	CASING — TYPE & SIZE	—
TOTAL METERAGE LOGGED	90.1M	CASING DEPTH	—
LOGGING SPEED	9M/MIN.*	BOREHOLE FLUID	H2O
REFERENCE LEVEL	G.L.	FLUID RESISTIVITY	—
PROBE NO.	9032C-901	SOFTWARE LEVEL	V9L1
TAPE 2 TRACK 2		SCALE SELECTION	*OPERATOR CLIENT

REMARKS: * 5 M/MIN. THROUGH COAL

EQUIPMENT DATA

PROBE MODEL		9032	9032	9032 SS
PROBE DIAMETER		1.5mm	1.5mm	1.5mm
NATURAL GAMMA	DETECTOR TYPE	Nal	Nal	Nal
	DETECTOR SIZE	25mm x 11.4mm	25mm x 11.4mm	25mm x 1.5mm
	STD K FACTOR	—	—	1.5 x 10⁻⁶
	STD DEADTIME	—	—	1.18 μsec
	CALIB MODEL LOC.	—	—	—
	CALIB DATE	—	—	—
	K FACTOR x 10⁻⁶	—	—	—
	DEADTIME - μsec	—	—	—
	TEST READING	—	—	—
	WATER FACTOR	—	—	—
	CASING FACTOR	—	—	—
DENSITY	DETECTOR TYPE	Nal	Nal	—
	DETECTOR SIZE	1.5mm x 25mm	1.5mm x 50mm	—
	SOURCE TYPE	—	—	—
	SOURCE NO.		483	—
	SOURCE STRENGTH		125mC	—
	SOURCE SPACING		20cm	—
NEUTRON	DETECTOR TYPE	—	—	—
	DETECTOR SIZE	—	—	25mm x 150mm
	SOURCE TYPE	—	—	AmBe
	SOURCE NO.	—	—	—
	SOURCE STRENGTH	—	—	—
	SOURCE SPACING	—	—	—
SNGL PT RESISTANCE		—	—	50mm x 6.5mm
RESISTIVITY		1.5mm Focused	2.5mm Focused	—
SELF POTENTIAL		—	—	25S
TEMPERATURE		—	—	10S
DEVIATION		—	—	NO 10S
CALIPER		10S	10S	—



COMPU-LOG V8L2 PLOT 03-24-82

R064
C.S.R.
LAUNCESTON

HOLE DIAMETER : 12.0
PROBE # 9032C - 901
SENSOR #4 CAL STD CPS = 7127
SENSOR #4 CAL RUN CPS = 4690
SENSOR #4 CAL BIAS = -1
DATA V9L1 TRUCK # 8038
GREG CREWS APPL.#1030 K

CENTURY GEOPHYSICAL CORP. PART NO. 786-0040

CENTURY GEOPHYSICAL CORP. PART NO. 786-0040

CENTURY GEOPHYSICAL CORP. PART NO. 786-0040

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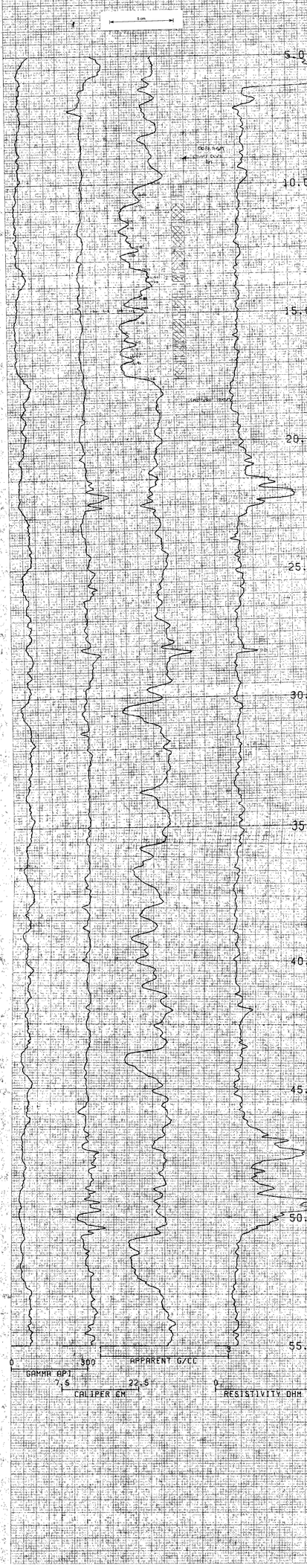
COMPU-LOG V8L2 PLOT 08-24-82

R064
C.S.R.
LAUNCESTON

HOLE DIAMETER : 12.0
PROBE # 8032C - 901
SENSOR #4 CAL STD CPS = 7127
SENSOR #4 CAL RUN CPS = 4680
SENSOR #4 CAL BIAS = -1
DATA V8L1 TRUCK # 8038
GREG CREWS APPL. #1030 K



CENTURY GEOPHYSICAL CORP. PART NO. 786-0040

CENTURY GEOPHYSICAL CORPORATION OF AUSTRALIA

COMPANY: C.S.R.
BOREHOLE: R064
AREA: LAUNCESTON
ELEVATION:
SHIRE:
STATE: TAS.

HOLE DATA

TOTAL DEPTH — DRILLER	90M	BIT SIZE	12CM
TOTAL DEPTH — LOGGER	90.1M	CASING — TYPE & SIZE	—
TOTAL METERAGE LOGGED	90.1M	CASING DEPTH	—
LOGGING SPEED	9M/MIN	BOREHOLE FLUID	H2O
REFERENCE LEVEL	G.L.	FLUID RESISTIVITY	— °C
PROBE NO.	9032A-901	SOFTWARE LEVEL	V9L1
TAPE 2 TRACK 3		SCALE SELECTION	✕ OPERATOR ☐ CLIENT

REMARKS:

BOREHOLE: R064 DATE: 24-03-82
UNIT/OPERATOR: 8038 CREWS FIELD OFFICE: BRISBANE

EQUIPMENT DATA

		PROBE MODEL	9032	9032	H9915S	
		PROBE DIAMETER	50mm	50mm	48mm	
NATURAL GAMMA		DETECTOR TYPE	NaI	NaI	NaI	
		DETECTOR SIZE	51mm x 114mm	51mm x 114mm	51mm ø 102mm	
		STD. K FACTOR	—	—	558 x 10⁻⁶	
		STD. CRADDLING	—	—	18 µR/HR	
		CALIB. MODEL USE	—	—	—	
		CALIB. DATE	—	—	—	
		K FACTOR x 10⁻⁶	—	—	—	
		DEADTIME µSEC	—	—	—	
		TEST READING	—	—	—	
		WATER FACTOR	—	—	—	
		CASING FACTOR	—	—	—	
DENSITY		DETECTOR TYPE	NaI	NaI	—	—
		DETECTOR SIZE	25mm x 38mm	25mm x 38mm	—	—
		SOURCE TYPE	Cs	Cs	—	—
		SOURCE NO.		124	—	—
		SOURCE STRENGTH		22mG	—	—
		SOURCE SPACING		10cm	—	
NEUTRON		DETECTOR TYPE	—	—	—	—
		DETECTOR SIZE	—	—	25mm x 330mm	—
		SOURCE TYPE	—	—	Am-Be	—
		SOURCE NO.	—	—	—	—
		SOURCE STRENGTH	—	—	—	—
		SOURCE SPACING	—	—	—	—
SNGL PT RESISTANCE			—	—	3Mohm x 63mm	
RESISTIVITY			16ohm/inch	2.5ohm/inch	—	
SELF POTENTIAL			—	—	YES	
TEMPERATURE			—	—	YES	
DEVIATION			—	—	NO YES	
CALIPER			YES	YES	—	

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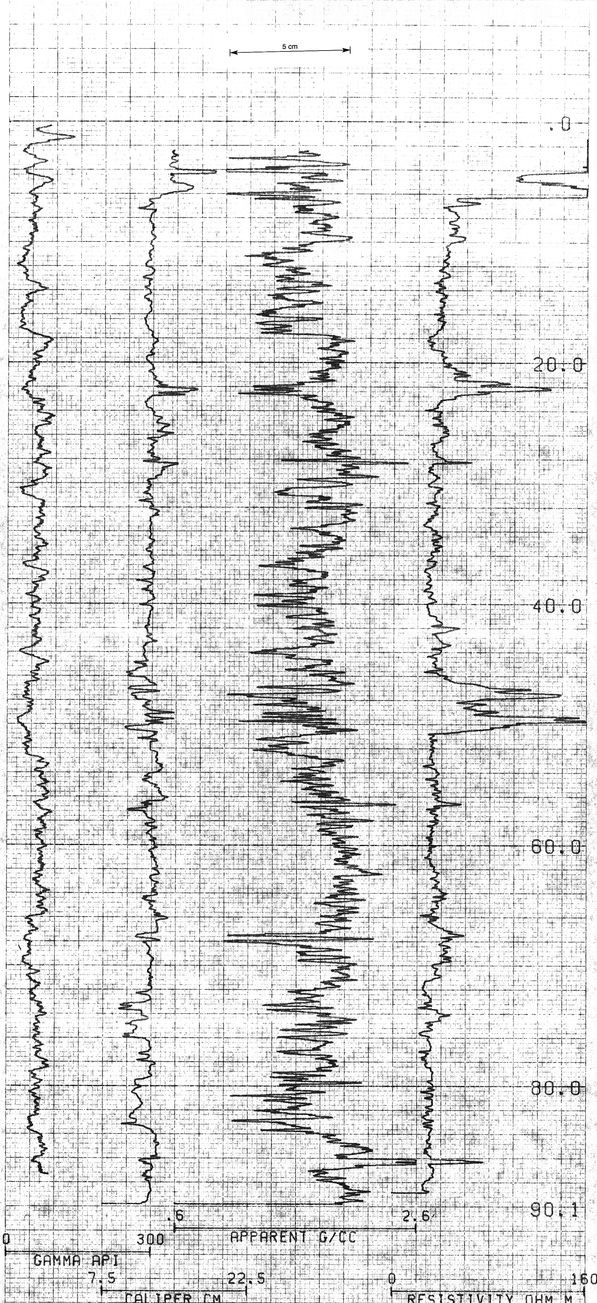

COMPU-LOG V8L2 PLOT 03-24-82

R064
C.S.R.
LAUNCESTON
HOLE DIAMETER : 12.0
PROBE # 9032A - 801
SENSOR #4 CAL STD CPS = 4825
SENSOR #4 CAL RUN CPS = 4617
SENSOR #4 CAL BIAS = 0
DATA V9L1 TRUCK # 8038
GREG CREWS APPL.#1030 K

CENTURY GEOPHYSICAL CORP. PART NO. 786-0040
CENTURY GEOPHYSICAL CORP. PART NO. 786-0040
CENTURY GEOPHYSICAL CORP. PART NO. 786-0040

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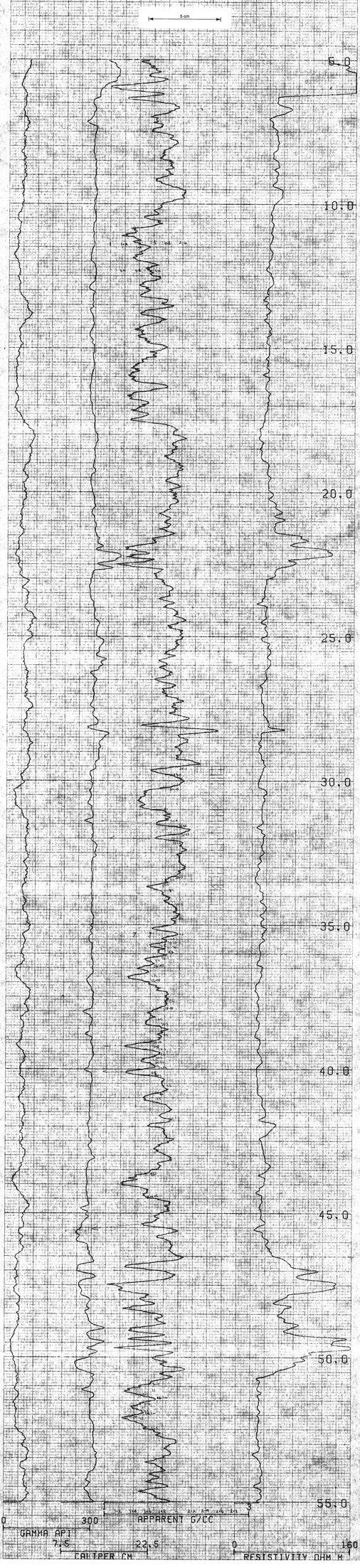
COMPU-LOG V8L2 PLOT 03-24-82

R064
C.S.R.
LAUNCESTON

HOLE DIAMETER : 12.0
PROBE # 9032A - 901 10CM
SENSOR #4 CAL STD CPS = 4825
SENSOR #4 CAL RUN CPS = 4617
SENSOR #4 CAL BIAS = 0
DATA V8L1 TRUCK # 8038
GREG CREVS APPL.#1030 K



CENTURY GEOPHYSICAL CORP. PART NO. 786-0040

CENTURY GEOPHYSICAL CORPORATION OF AUSTRALIA

RO64 24-03-82
8038 CREWS/BRISBANE

EQUIPMENT DATA

TRUCK NO.	8038	8038	
LOGGING UNIT	1	1	
SPECIAL TOOLS			
SPECIAL TOOLS			
SPECIAL TOOLS	

CENTURY GEOPHYSICAL CORPORATION
TULSA, OKLAHOMA

R065
LAUNCESTON
TAS.

WELL DATA

TOP	1154
BOTTOM	1154
TOTAL DEPTH	1140
CASING	
FLUID IN HOLE	WBM
TRACK 3 TRACK 1	

PAPER COPY
R065 LAUNCESTON BRISBANE
EQUIPMENT DATA

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R065

CENTURY GEOPHYSICAL CORP. PART NO. 786-0040

50 UR

20 UR

0 150 GAMMA API

APPARENT G/CC

6 29 CALIPER CM

0 80 RESISTIVITY OHM M

CENTURY GEOPHYSICAL CORP. PART NO. 786-0040

CENTURY GEOPHYSICAL CORPORATION OF AUSTRALIA

R065 | 26-03-82
8038 CREWS | BRISBANE

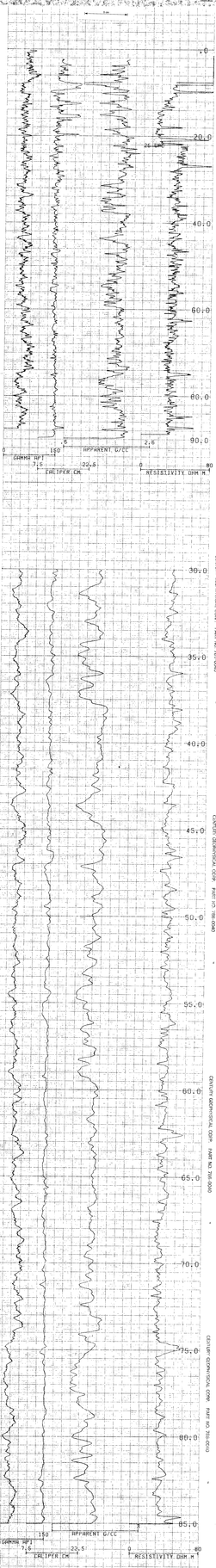
C.S.R.
R065
LAUNCESTON
TAS.

HOLE DATA

	90M		12CM
	90.0M		
	90.0M		
	9M/MIN.		H2O
	G.L.		
	9032C-901		V9L1
TAPE 3	TRACK 2		

* 5M/MIN. THROUGH COAL

EQUIPMENT DATA



COMPU-LOG VBL2 PLOT 03-25-82

R065
C.S.R.
LAUNCESTON

HOLE DIAMETER : 12.0
PROBE # 9032C - 001
SENSOR #4 CAL STD CPS = 7127
SENSOR #4 CAL RUN CPS = 4693
SENSOR #4 CAL BIAS = -1
DATA VBL1 TRUCK # 8038
DRED CREWS APPL.#7030 K

CENTURY GEOPHYSICAL CORPORATION OF AUSTRALIA

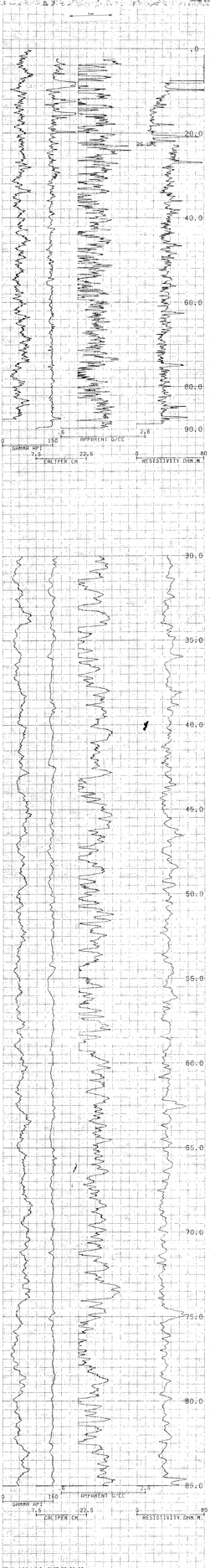
R065 25-03-82
8038 CREWS BRISBANE

C.S.R.
R065
LAUNCESTON
TAS.

HOLE DATA

	70 M		12 CM
	70.0 M		—
	70.0 M		—
	7 M/MIN		H_2O
	6 L		
	7032A-701		VPL1
TAPE-3 TRACK3			

EQUIPMENT DATA



COMPU-LOG VOL2 PLOT 03-25-82

R065
C.S.R.
LAUNCESTON

HOLE DIAMETER : 12.0
PROBE # 9032A - 001
SENSOR #4 CAL STD CPS = 4825
SENSOR #4 CAL RUN CPS = 4617
SENSOR #4 CAL BIAS = 0
DATA VOL1 TRUCK # 8038
OREG CREW3 APPL.#3030 K

CENTURY GEOPHYSICAL CORPORATION OF AUSTRALIA

ROBS 25-03-82
TOSH CREWS BRISBANE

EQUIPMENT DATA

RECORDER			
SURFACE CABLE			
DEPTH CONTROL			
LOGGING CABLE			
WINCH			
SHEAVE WHEEL			
SONDE			
SONDE			
SONDE

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CENTURY GEOPHYSICAL CORPORATION OF AUSTRALIA

BOREHOLE	R066
DATE	26-03-82
UNIT/OPERATOR	8038 CREWS
FIELD OFFICE	BRISBANE

COMPANY: C.S.R

BOREHOLE: R066

AREA: LAUNCESTON

ELEVATION:

SHIRE:

STATE: TAS

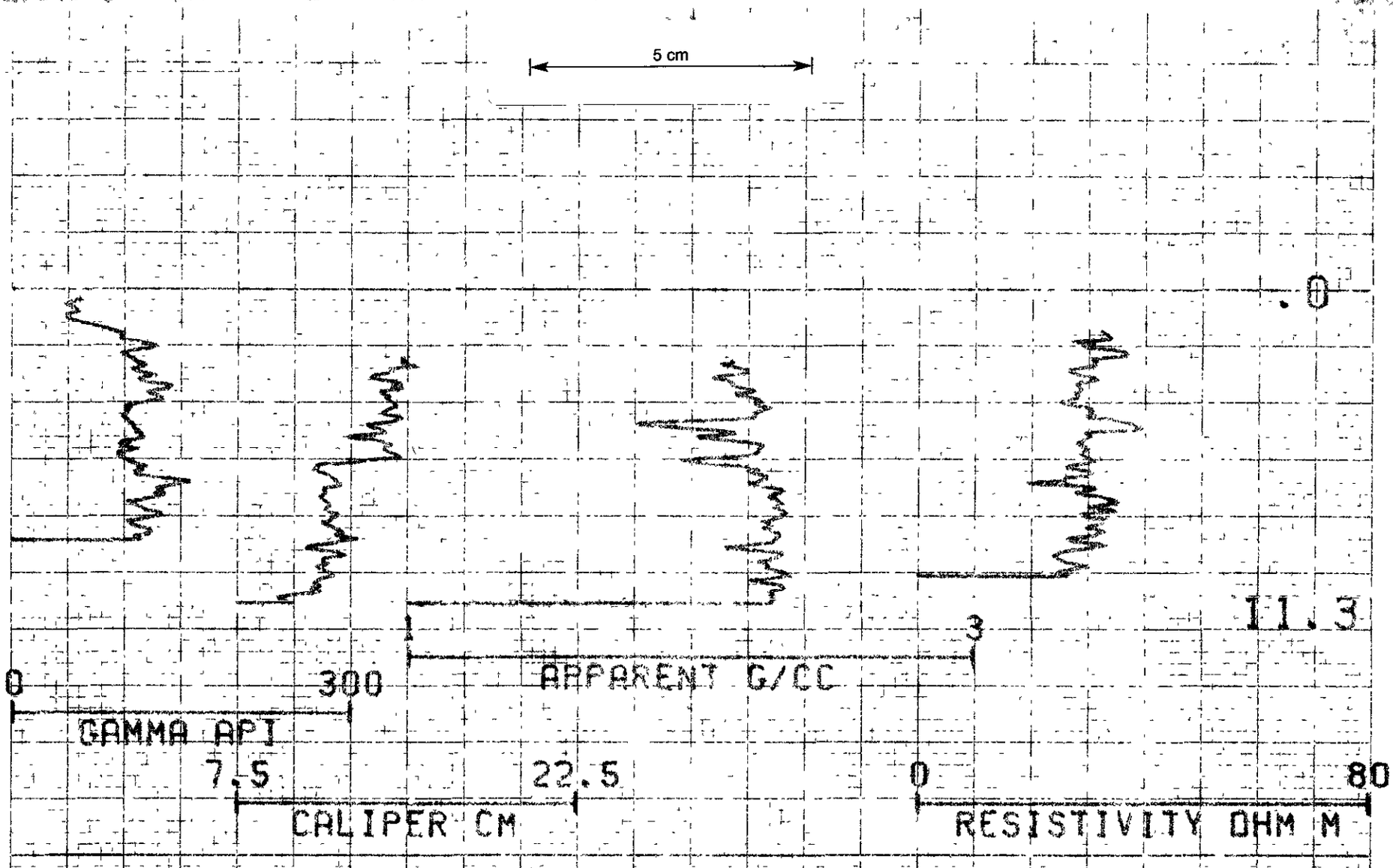
HOLE DATA

TOTAL DEPTH — DRILLER	12 M	BIT SIZE	12 CM
TOTAL DEPTH — LOGGER	11.3 M	CASING — TYPE & SIZE	—
TOTAL METERAGE LOGGED	11.3 M	CASING DEPTH	—
LOGGING SPEED	9 M/MIN	BOREHOLE FLUID	H_2O
REFERENCE LEVEL	G.L.	FLUID RESISTIVITY	— °C
PROBE NO	9032C-901	SOFTWARE LEVEL	V9L1
TAPE 5 TRACK 1		SCALE SELECTION	OPERATOR CLIENT

REMARKS:

EQUIPMENT DATA

PROBE MODEL		9030	9032	9050155		
PROBE DIAMETER		50mm	50mm	48mm		
NATURAL GAMMA	DETECTOR TYPE	Not	Not	Not		
	DETECTOR SIZE	31mm x 114mm	31mm x 114mm	22mm x 100mm		
	STD K FACTOR	—	—	558 x 10⁶		
	STD DEADTIME	—	—	18 μsec		
	CALIB. MODEL LOC.	—	—			
	CALIB DATE	—	—			
	K FACTOR x 10	—	—			
	DEADTIME μsec	—	—			
	TEST READING	—	—			
	WATER FACTOR	—	—			
	CASING FACTOR	—	—			
DENSITY	DETECTOR TYPE	Not	Not	—		
	DETECTOR SIZE	12mm x 38mm	12mm x 38mm	—		
	SOURCE TYPE	—	—	—		
	SOURCE NO.		483	—		
	SOURCE STRENGTH		125mCi	—		
	SOURCE SPACING		20cm	—		
NEUTRON	DETECTOR TYPE	—	—	—		
	DETECTOR SIZE	—	—	25mm x 150mm		
	SOURCE TYPE	—	—	4mm		
	SOURCE NO.	—	—	—		
	SOURCE STRENGTH	—	—	—		
	SOURCE SPACING	—	—	—		
SNGL PT RESISTANCE		—	—	36mm x 63mm		
RESISTIVITY		15cm Focused	2.5cm Focused	—		
SELF POTENTIAL		—	—	YES		
TEMPERATURE		—	—			
DEVIATION		—	—	NO YES		
CALIPER		YES	YES			



COMPU-LOG V8L2 PLOT 03-26-82

R066

C.S.R.

LAUNCESTON

HOLE DIAMETER : 12.0

PROBE # 9032C - 901

SENSOR #4 CAL STD CPS = 7127

SENSOR #4 CAL RUN CPS = 4690

SENSOR #4 CAL BIAS = -1

DATA V8L2 TRUCK # 8038

GREG CREWS APPL. #3030 K

CENTURY GEOPHYSICAL CORP. PART NO. 786-0040

CENTURY GEOPHYSICAL CORP. P

CENTURY GEOPHYSICAL CORPORATION OF AUSTRALIA

BOREHOLE	R066
DATE	26-03-82
UNIT/OPERATOR	8038 CREWS
FIELD OFFICE	BRISBANE

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COMPANY: C.S.R
BOREHOLE: R066
AREA: LAUNCESTON
ELEVATION:
SHIRE:
STATE: TAS

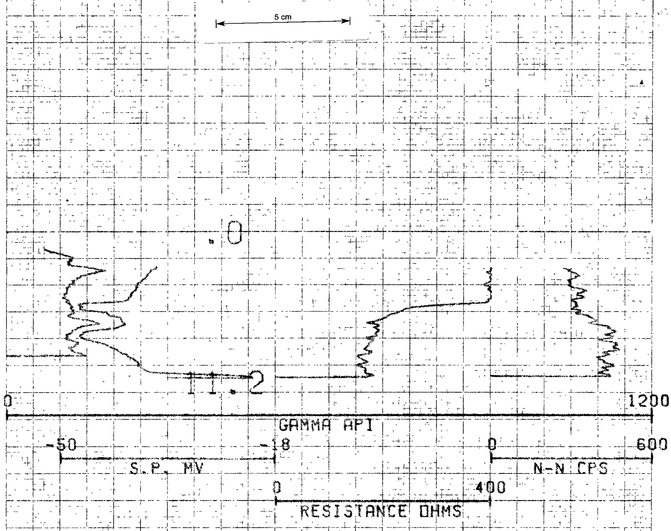
HOLE DATA

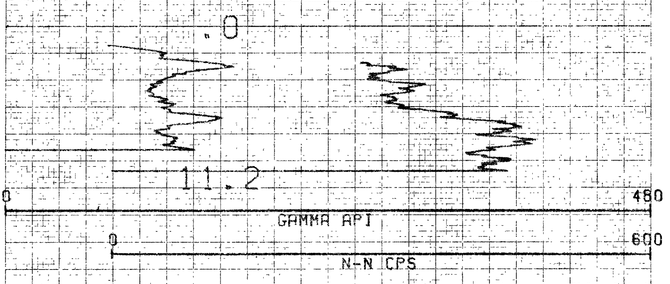
TOTAL DEPTH — DRILLER	12 M	BIT SIZE	12 CM
TOTAL DEPTH — LOGGER	11.2 M	CASING — TYPE & SIZE	—
TOTAL METERAGE LOGGED	11.2 M	CASING DEPTH	—
LOGGING SPEED	18 M/MIN.	BOREHOLE FLUID	H_2O
REFERENCE LEVEL	G.L	FLUID RESISTIVITY	— °C
PROBE NO.	9050-242	SOFTWARE LEVEL	V9L1
TAPE 5 TRACK 2		SCALE SELECTION	☒ OPERATOR CLIENT

REMARKS:

EQUIPMENT DATA

PROBE MODEL					
PROBE DIAMETER	50mm	50mm	50mm		
NATURAL GAMMA: DETECTOR TYPE	NO	NO	NO		
DETECTOR SIZE	3mm x 114mm	3mm x 114mm	3mm x 114mm		
STD. R FACTOR			1.5 R FACTOR		
STD. DEACTIVE					
CALIB. MODEL LOC.					
CALIB. DATE					
K-FACTOR x 10					
DEACTIVE					
TEST READING					
WATER FACTOR					
CASING FACTOR					
DENSITY: DETECTOR TYPE					
DETECTOR SIZE	12mm x 34mm	12mm x 34mm	12mm x 34mm		
SOURCE TYPE					
SOURCE NO.					
SOURCE STRENGTH					
SOURCE SPACING					
NEUTRON: DETECTOR TYPE					
DETECTOR SIZE					
SOURCE TYPE					
SOURCE NO.			3778		
SOURCE STRENGTH			1Ci		
SOURCE SPACING			45cm		
SNGL. PT. RESISTANCE					
RESISTIVITY					
SELF POTENTIAL					
TEMPERATURE					
DEVIATION					
CALIPER					





COMPU-LOG V8L2 PLOT 03-26-82

R066
C.S.R.
LAUNCESTON

HOLE DIAMETER : 12.0
PROBE # 9055A - 242
SENSOR #4 CAL STD CPS = 152
SENSOR #4 CAL RUN CPS = 153
SENSOR #4 CAL BIAS = 0
DATA V8L2 TRUCK # 8038
GREG CREWS APPL.#2007 K

CENTURY GEOPHYSICAL CORP. PART NO. 786-0040

CENTURY GEOPHYSICAL CORP. PART NO. 786-0040

CENTURY GEOPHYSICA

CENTURY GEOPHYSICAL CORPORATION OF AUSTRALIA

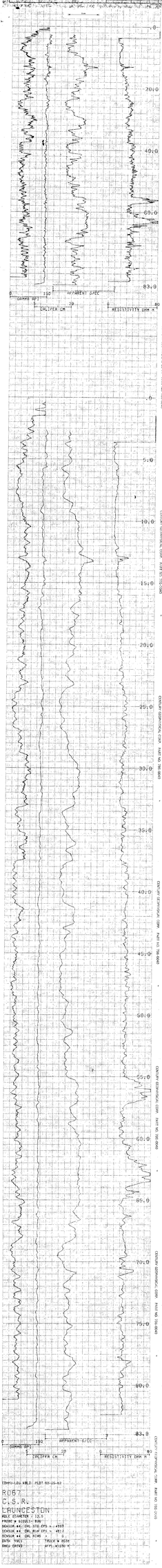
C.S.R.
R067
LAUNCESTON
TAS

HOLE DATA

84M		12.6M
83.9M		
82.9M		
7M/MIN		H_2O
G.L.		
7032L1-8M		V761
TAPE 4	TRACK 1	

R067 25-03-82
3028 CREWS BRISBANE

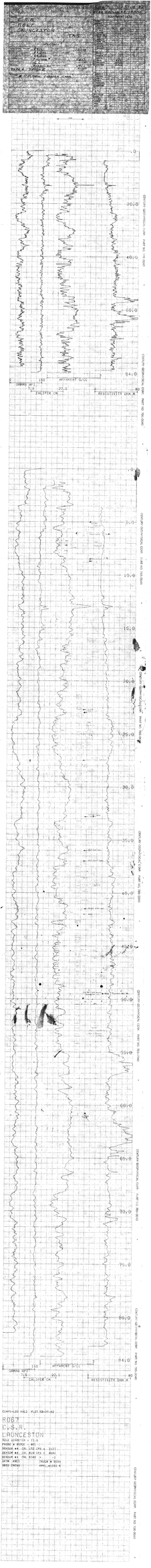
EQUIPMENT DATA



COMPU-LOG WBL2 PLOT 03-25-82

R067
C.S.R.
LAUNCESTON

HOLE DIAMETER = 12.5
PROBE # 9032L1- 836
SENSOR #4 CAL STD CPS = 4383
SENSOR #4 CAL RUN CPS = 4817
SENSOR #4 CAL RIAS = 0
DATA 9961 TRUCK # 8036
CREW CREWS AFFL.#1030 K



COMPU-LOG VALI PLOT 03-01-82

R067

C.S.R.

LAUNCESTON

HOLE DIAMETER = 12.0

PROBE # 8032C - 801

SENSOR #4 CAL STD CPS = 3121

SENSOR #4 CAL RUN CPS = 4680

SENSOR #4 CAL BIAS = -1

DATA .VALI TRUCK # 8034

GRID CHECKS APPL.#1030 K

COMPU-LOG VOL 2 PLOT 02-25-82

R067

C.S.R.

LAUNCESTON

HOLE DIAMETER = 12.0

PROBE ● 8035C → 601

SENSOR ●< CAL STD CPS = 7127

SENSOR ●< CAL RUN CPS = 4690

SENSOR ●< CAL BIAS = -1

DATA VOL1 TRUCK ● 8038

CREW-CHIEF WPPL ●1039 <

.0

5.0

10.0

15.0

20.0

25.0

30.0

35.0

40.0

45.0

50.0

55.0

60.0

65.0

70.0

75.0

80.0

84.0

0 150 APPARENT D/CC 3

GAMMA API 7.5 22.5 CALIPER CM

0 80 RESISTIVITY OHM M

CENTURY GEOPHYSICAL CORP. PART NO. 780-0040

CENTURY GEOPHYSICAL CORPORATION OF AUSTRALIA

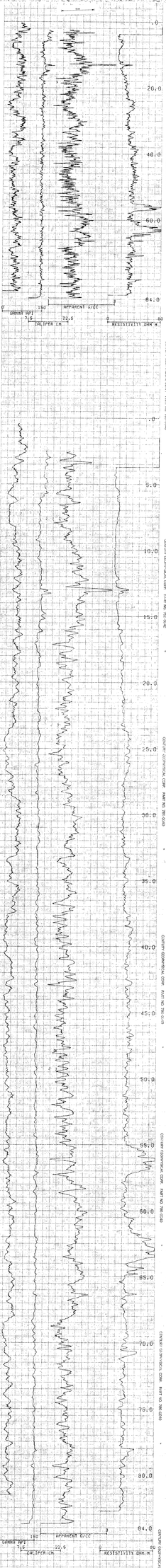
R067 25-03-92
BOSS CREW C BRISBANE

EQUIPMENT DATA

C.S.R.
R067
LAUNCESTON
TAS.

HOLE DATA

84.0 M		12.0 M
84.0 M		
9 M/MIN		H_2O
G.L.		
70 TEA 701		V961
TAPE 4 TRACK 3		



COMPU-LOG VOL2 PLOT 03-25-92

R067
C.S.R.
LAUNCESTON

HOLE DIAMETER : 12.0
PROBE # 8032A - 001
SENSOR #4 CAL STD CPS = 4820
SENSOR #4 CAL RUN CPS = 4810
SENSOR #4 CAL BIAS = 0
DATA VOL1 TRUCK # 8038
GREG CREWS APPL.#1020 K

CENTURY GEOPHYSICAL CORPORATION OF AUSTRALIA

R067	25-03-82
8038 CREWS	BRISBANE

92-1716.
Vol 5 no 6.
22

771495

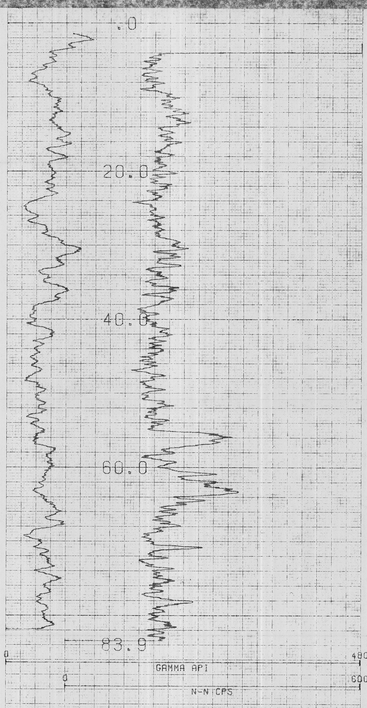
EQUIPMENT DATA

C.S.R.	
R067	
LAUNCESTON	TAS

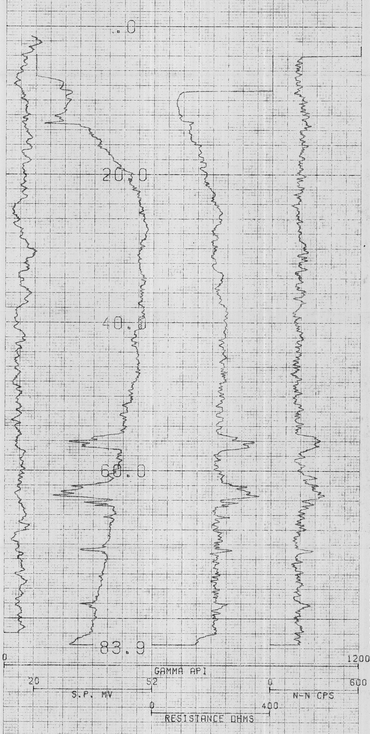
HOLE DATA

TOTAL DEPTH IN DRILLER	84 M	BIT SIZE	12 CM
TOTAL DEPTH IN LOGGER	83.9 M	CASING TYPE & SIZE	—
CASING DEPTH	83.9 M	CASING DEPTH	—
DRILLING FLUID	18 M/MIN	BOREHOLE FLUID	H2O
DRILLING FLUID	G.L.	FLUID RESISTIVITY	—
PROBE NO.	9050-242	SOFTWARE LEVEL	V9L1
TAPE 4	TRACK 4	TAPE 4 DESCRIPTION	

82 TH	
1 CM	
65 CM	



CENTURY GEOPHYSICAL CORP. PART NO. 786-0040



CENTURY GEOPHYSICAL CORP. PART NO. 786-0040

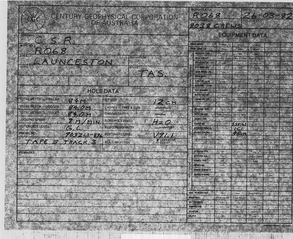
COMPU-LOG V8L2 PLOT 03-25-82

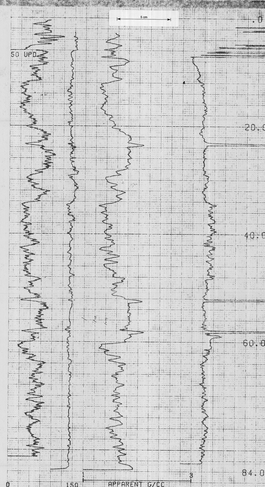
R067
C.S.R.
LAUNCESTON

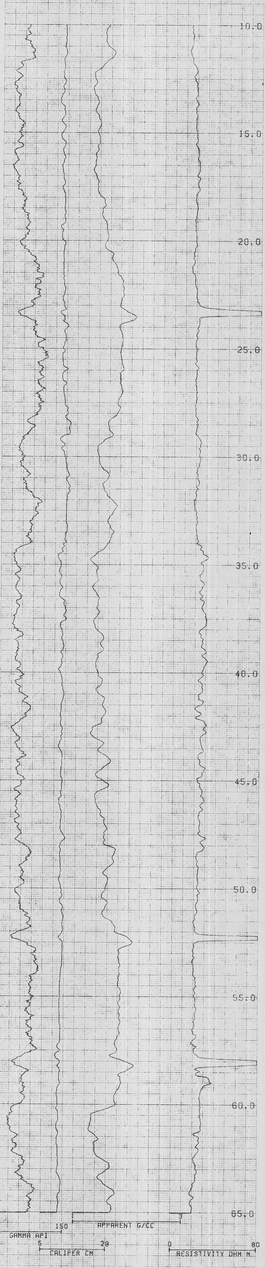
HOLE DIAMETER : 12.0
PROBE # 9055A - 242
SENSOR #4 CAL STD CPS = 152
SENSOR #4 CAL RUN CPS = 153
SENSOR #4 CAL BIAS = 0
DATA V9L1 TRUCK # 8038
OREG CREWS APPL.#5 K

5 cm

CENTURY GEOPHYSICAL CORP. PART NO. 786-0040







CENTURY GEOPHYSICAL CORP. PART NO. 786-0040

CONFIG-LOG VER 2 PLOT 03-26-82

R068
C.S.R.
LAUNCESTON
HOLE DIAMETER = 12.0
PROBE # 9932L1- 886
SENSOR #4 CAL STD CPS = 4333
SENSOR #4 CAL RUN CPS = 4917
SENSOR #4 CAL BIAS = 0
DATA VOLT TRUCK # 9038
GREG CREWS APPL.#1030 M

CENTURY GEOPHYSICAL CORPORATION OF AUSTRALIA

R068 | 26-03-82
2024 CREWS | BRISBANE

22-1966.
Vol Sept
24

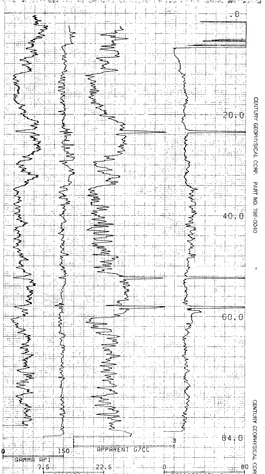
C.S.R.
R068
LAUNCESTON
TAS

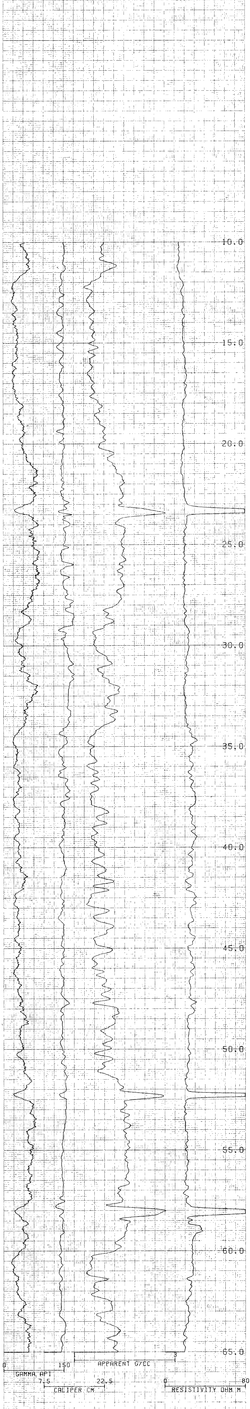
HOLE DATA

	84M		12CM
	84.0M		
	84.0M		
	9 M/MIN		H2O
	G.L.		
	90326-7M		V961
TAPE 5 TRACK 4			

* 5 M/MIN THROUGH COAL

EQUIPMENT DATA





COMPU-LOG V8L2 PLOT 03-26-82

R068
C.S.R.
LAUNCESTON

HOLE DIAMETER = 12.0
PROBE # 8032C - 803
SENSOR #4 CAL STD CPS = 7127
SENSOR #4 CAL RUN CPS = 4690
SENSOR #4 CAL BIAS = -1
DATA V8L1 TRUCK # 8038
GREG CREWS APPL.#1030 K

1m

CENTURY GEOPHYSICAL CORP. PART NO. 786-0040

CENTURY GEOPHYSICAL CORPORATION
TULSA, OKLAHOMA

C.S.R.
RD68
LAUNCESTON
TAS

HOLE DATA

DEPTH: 5842m
TD: 5842m
MUD WT: 9.0 PPG
VISC: 40
FLUID LOSS: NIL
PH: 10
RM @ MEAS TEMP: .184 @ 25°C
RMF @ MEAS TEMP: .161 @ 25°C
RMC @ MEAS TEMP: .124 @ 25°C
SOURCE OF SAMPLES: CIRC
RM @ BHT: .184 @ 25°C
TIME SINCE CIRC: 3HRS
MAX REC TEMP: 25°C
EQUIP. LOCATION: TAS
RECORDED BY: TAPE 6 TEACH
WITNESSED BY:

RD68 26-03-93
2028 CREW 3
EQUIPMENT DATA

RUN NO.	1
TYPE LOG	DIL
DEPTH-DRILLER	5842m
DEPTH-LOGGER	5842m
BTM LOG INTERVAL	5842m
TOP LOG INTERVAL	5000m
CASING-DRILLER	244.5mm @ 1000m
CASING-LOGGER	244.5mm @ 1000m
BIT SIZE	222mm
TYPE FLUID IN HOLE	GEL
DENS	9.0
VISC	40
PH	10
FLUID LOSS	NIL
SOURCE OF SAMPLE	CIRC
RM @ MEAS TEMP	.184 @ 25°C
RMF @ MEAS TEMP	.161 @ 25°C
RMC @ MEAS TEMP	.124 @ 25°C
RM @ BHT	.184 @ 25°C
TIME SINCE CIRC	3HRS
MAX REC TEMP	25°C
EQUIP. LOCATION	TAS
RECORDED BY	TAPE 6 TEACH
WITNESSED BY	

RUN 1

27203

CENTURY GEOPHYSICAL CORP. PART NO. 786-0000

0 GAMMA RAY 150
7.5 CALIPER CM 22.5
APPARENT G/CC 3
0 RESISTIVITY OHM M 80

1:0
20:0
40:0
60:0
84:0

CENTURY GEOPHYSICAL CORP. PART NO. 786-0000

100:0
150:0
200:0
250:0
300:0
350:0
400:0
450:0
500:0
550:0
600:0
650:0

CENTURY GEOPHYSICAL CORP. PART NO. 786-0000

0 GAMMA RAY 150
7.5 CALIPER CM 22.5
APPARENT G/CC 3
0 RESISTIVITY OHM M 80

CENTURY GEOPHYSICAL CORP. PART NO. 786-0000

COMPUTER LOG VER.2 PLOT 03/26/93

RD68
C.S.R.
LAUNCESTON
HOLE DIAMETER 7 12.25
PROBE # 90334 - 301
SENSOR #4 CNL STD CPS = 4825
SENSOR #4 CNL RAW CPS = 4741
SENSOR #4 CNL BIAS = 0
DATA VALI TRUCK # 9036
DREG CREW3 APPL:41080 M

CENTURY GEOPHYSICAL CORP. PART NO. 786-0000

82-1716
Vic Exp.
26

CENTURY GEOPHYSICAL CORPORATION OF AUSTRALIA

R068	26-03-82
8038 CREWS	BRISBANE

EQUIPMENT DATA

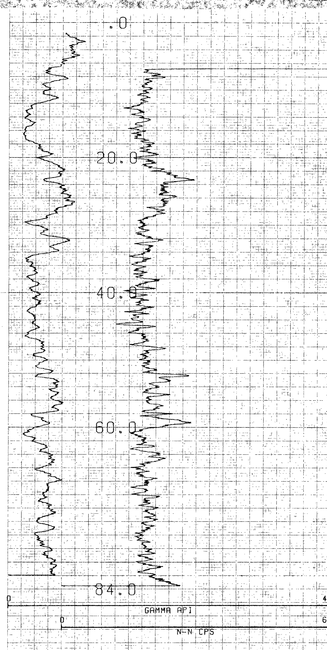
PROJECT	C.S.R.
	R068
	LAUNCESTON
STATE	TAS

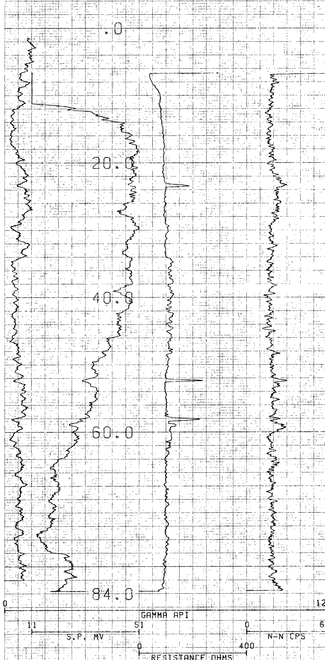
HOLE DATA

TOTAL DEPTH - DRILLER	84M	WELL	12CM
TOTAL DEPTH - LOGGER	84.0M	CASING - TYPE & SIZE	
TOTAL DEPTH - LOGGED	84.0M	CASING DEPTH	
LOGGING SPEED	18 M/MIN	MAGNETIC FIELD	H2O
MAGNETIC FIELD	G.L.	FLUID RESISTIVITY	
FLOW RATE	7050-242	CONTAINER LEVEL	V9L1
TAPE 6	TRACK 2	SOLID RESISTIVITY	

REMARKS

	377R
	65cm





COMPU-LOG V8L2 PLOT 03-26-82

R068
C.S.R.
LAUNCESTON

HOLE DIAMETER = 12.0
PROBE # 8058A - 242
SENSOR #4 CAL STD CPS = 152
SENSOR #4 CAL RUN CPS = 153
SENSOR #4 CAL BIAS = 0
DATA V8L2 TRUCK # 8038
GREG CREWS APPL. #1005 K

1 cm

CENTURY GEOPHYSICAL CORP. PART NO. 786-0040

CENTURY GEOPHYSICAL CORPORATION OF AUSTRALIA

R069 26-03-82
9038 CREWS BRISBANE

EQUIPMENT DATA

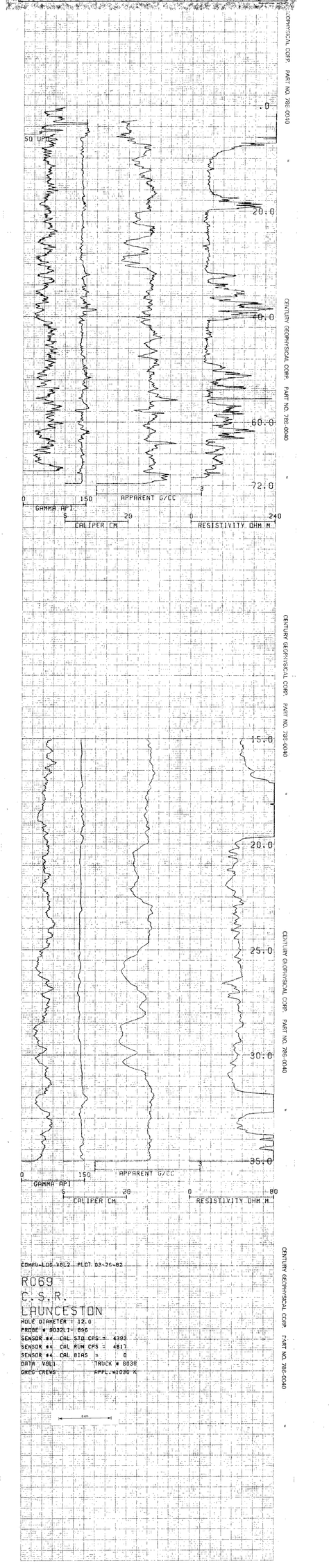
	SONDE	SURFACE
PROBE NUMBER		
TOOL LENGTH		
DETECTOR(S)		
DET. A SPACING		
DET. B SPACING		
DET. C SPACING		
CALIPER ARM LEN.		
CALIPER SPACING		
SONDE DIAMETER		
SONDE WEIGHT		
MAXIMUM TEMP.		
MAXIMUM PRESS.		
SONDE TYPE		
CALIPER SIZE		
PROBE TYPE		
SOURCE NO.		
SOURCE STRENGTH		
SOURCE SPACING		
ABSOLUTE DAT		
ROAD LOG DAT		
ROAD LOG TO		
ROAD LOG FROM		
CASING SHOE		
CASING DIA.		
CASING WT.		
CASING TO		
CASING FROM		
HOLE TO (DRILLER)		
HOLE TO (LOGGER)		
BIT SIZE		
BIT TO CASING		
REMARKS		

C.S.R.
R069
LAUNCESTON
TAS.

HOLE DATA

RUN NUMBER	ONE	BIT SIZE	12CH.
TOTAL DEPTH — DRILLER	72.0M.	CASING — TYPE & WT.	
TOTAL DEPTH — LOGGER	72.0M.	CASING DEPTH	
LOGGING SPEED	9M/MIN.	DRILLING FLUID	H2O
REFERENCE LEVEL	G.L.	FLUID RESISTIVITY	
RECNL NO.	9032LI-896	BOREHOLE LEVEL	V761
REMARKS	TAPE 6 TRACK 3	DEVIATION	

82-1761
Vol. Box
27
R069



COMPU-LOG V8L2 PLOT 03-26-82

R069
C.S.R.
LAUNCESTON
HOLE DIAMETER = 12.0
PROBE # 9032LI- 896
SENSOR #4 CAL STD CPS = 4393
SENSOR #4 CAL RUN CPS = 4817
SENSOR #4 CAL BIAS = 0
DATA V8L1 TRUCK # 8038
GREG CREWS APPL.#1030 K

5 cm

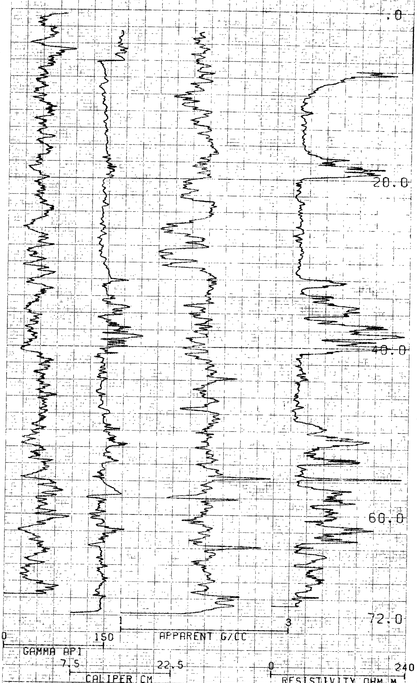
82-1746
Vol. 5 enc.
38
72501

CENTURY GEOPHYSICAL CORPORATION OF AUSTRALIA

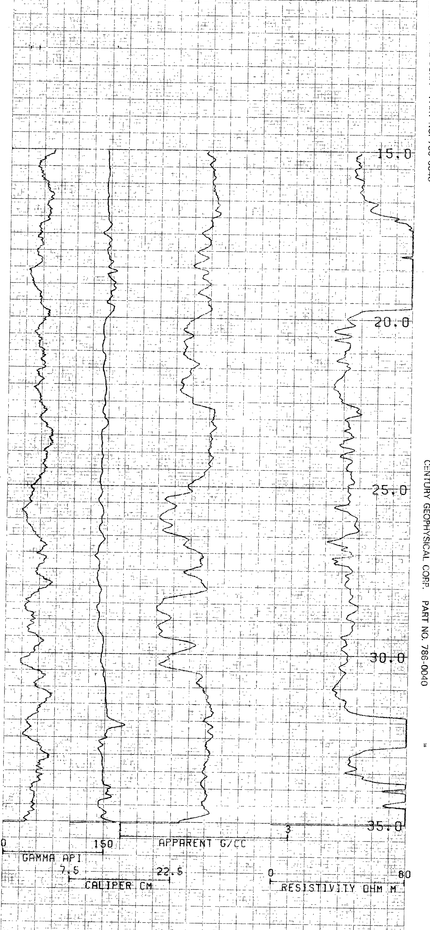
R069 26-3-82
8038 CREWS BRISBANE

COMPANY C.S.R.
AREA R069
LAUNCESTON
TAS
HOLE DATA
TOTAL DEPTH - DRILLER 72M
TOTAL DEPTH - LOGGER 72.0M
TOTAL DEPTH LOGGED 72.0M
LOGGING SPEED 9M/MIN
REFERENCE LEVEL G.L.
PROBE NO. 9032C-901
TAPE & TRACK # TAPE 4
REMARKS X 5M/MIN THROUGH COAL

EQUIPMENT DATA
HOLE SIZE 12CM
BOREHOLE FLUID H2O
FLUID RESISTIVITY
MAX. RECORDED TEMP.
BOTTOM LOGGED INTERVAL 72M
TOP LOGGED INTERVAL 0M
CASING - TYPE & SIZE
CASING DEPTH
RUN NO. 1
TIME SINCE CIRC.
MAX REC. TEMP.
EQUIP. LOCATION
RECORDED BY
WITNESSED BY



CENTURY GEOPHYSICAL CORP. PART NO. 786-0040



CENTURY GEOPHYSICAL CORP. PART NO. 786-0040

COMPU-LOG V8L2 PLOT 03-26-82

R069
C.S.R.
LAUNCESTON
HOLE DIAMETER : 12.0
PROBE # 9032C - 901
SENSOR ## CAL STD CPS = 7127
SENSOR ## CAL RUN CPS = 4680
SENSOR ## CAL BIAS = -1
DATA V9L1 TRUCK # 8038
DRLD CREWS APPL.#1033-K

5cm

CENTURY GEOPHYSICAL CORP. PART NO. 786-0040

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Vol 5 of 6
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CENTURY GEOPHYSICAL CORPORATION OF AUSTRALIA

RUN/LOCATION: R069 26-03-82
6038 CREWS BRISBANE

COMPANY: C.S.R.
BOREHOLE: R069
AREA: LAUNCESTON
ELEVATION:
STATE: TAS

HOLE DATA

TOTAL DEPTH – DRILLER	72M	BIT SIZE	12CM
TOTAL DEPTH – LOGGER	72.0M	CASING – TYPE & SIZE	—
TOTAL METRES LOGGED	34.0M	CASING DEPTH	—
LOGGING SPEED	9M/MIN.	BOREHOLE FLUID	H2O
REFERENCE LEVEL	G.L.	FLUID RESISTIVITY	
PROBE NO.	9032A-901	SOFTWARE LEVEL	V961
TAPE 7	TRACK 1	RIG SELECTION	OPERATOR / CLIENT

REMARKS

EQUIPMENT DATA

PROBE MEMORY			
PROBE DIAMETER	4.5cm	4.5cm	4.5cm
GAMMA	EFFECTIVE LENGTH	1.5m	1.5m
	DETECTOR TYPE		
	DETECTOR SIZE	5cm x 15cm	5cm x 15cm
	SRS 1 SECTION		1.5m
	SRS SHUNTING		
	CABLE MODE USE		
	CALIBRATOR		
	DETECTOR 2 SPACING		
	SHUNTING 2.5 MS		
	TEST PULSING		
	WATER PRESSURE		
	CALIBRATION		
DUAL	DETECTOR TYPE		
INDUCTION	DETECTOR SIZE		
	SOURCE FREQ		
	SOURCE NO. 1	12.5	
	SOURCE STRENGTH	25mA	
	SOURCE SPACING	10cm	
	APPLICATIONS		
	DETECTOR NOS		
	SOURCE LIST		
	SERVICING		
	SOURCE STRENGTH		
	SOURCE SPACING		
DUAL IN VACUUM			
RESISTIVITY			
SELF POTENTIAL			
TEMPERATURE			
DEVIATION			
CALIPER			

5cm

.0
20.0
34.0

0 150 GAMMA API
7.5 22.5 CALIPER CM
1 3 APPARENT G/CC
0 240 RESISTIVITY OHM M

CENTURY GEOPHYSICAL CORP. PART NO. 786-0040

15.0
20.0
25.0
30.0
34.0

0 150 GAMMA API
7.5 22.5 CALIPER CM
1 3 APPARENT G/CC
0 80 RESISTIVITY OHM M

CENTURY GEOPHYSICAL CORP. PART NO. 786-0040

COMPU-LOG V8L2 PLOT 03-26-82

R069

C.S.R.

LAUNCESTON

HOLE DIAMETER = 12.0
PROBE # 9032A - 901
SENSOR #4 CAL STD CPS = 4825
SENSOR #4 CAL RUN CPS = 4741
SENSOR #4 CAL BIAS = 0
DATA V8L1 TRUCK # 6038
GREG CREWS APPL. #30 K

CENTURY GEOPHYSICAL CORP. PART NO. 786

82-1766
Vol. Sorb.
30

771503

CGC CENTURY GEOPHYSICAL CORPORATION OF AUSTRALIA

COMPANY C.S.R.
ADDRESS
AREA R069
LAUNCESTON
STATE T.A.S.

R069 26-03-82
8038 CREWS BRISBANE

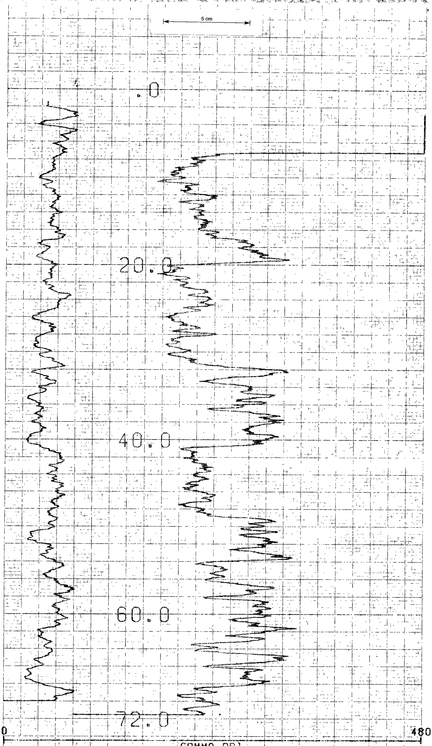
HOLE DATA

TOTAL DEPTH (DRILLER)	72M	DIP/AZIMUTH	12CM
TOTAL DEPTH (LOGGER)	72.0M	CASING - TYPE & SIZE	—
TOTAL METERS LOGGED	72.0M	CASING DEPTH	H2O
LOGGING SPEED	18M/MIN	BOREHOLE FLUID	—
REFERENCE LEVEL	G.L.	FLUID RESISTIVITY	
PROBE NO.	9058-242	SOFTWARE LEVEL	V9L1
TAPE 7 TRACK 2		SCALE MULTIPLIER	

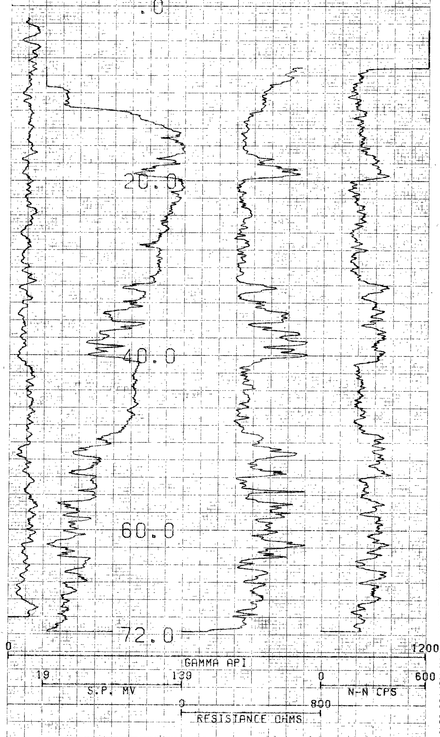
REMARKS

EQUIPMENT DATA

PROBE NAME			
PROBE NO.			
SENSOR 1 TYPE			
SENSOR 1 NO.			
SENSOR 1 SPACING			
SENSOR 2 TYPE			
SENSOR 2 NO.			
SENSOR 2 SPACING			
SENSOR 3 TYPE			
SENSOR 3 NO.			
SENSOR 3 SPACING			
SENSOR 4 TYPE			
SENSOR 4 NO.			3778
SENSOR 4 SPACING			151
SENSOR 5 TYPE			45CM
SENSOR 5 NO.			
SENSOR 5 SPACING			
SENSOR 6 TYPE			
SENSOR 6 NO.			
SENSOR 6 SPACING			
SENSOR 7 TYPE			
SENSOR 7 NO.			
SENSOR 7 SPACING			
SENSOR 8 TYPE			
SENSOR 8 NO.			
SENSOR 8 SPACING			
CABLE NO.			
CABLE TYPE			
CABLE LENGTH			
CABLE SPACING			
CABLE MODEL NO.			
DRIVER			
DRIVER SPACING			
TEST MANDREL			
MANDREL SPACING			
CALIBRATOR			
SENSOR 1 TYPE			
SENSOR 1 NO.			
SENSOR 1 SPACING			
SENSOR 2 TYPE			
SENSOR 2 NO.			
SENSOR 2 SPACING			
SENSOR 3 TYPE			
SENSOR 3 NO.			
SENSOR 3 SPACING			
SENSOR 4 TYPE			
SENSOR 4 NO.			
SENSOR 4 SPACING			
SENSOR 5 TYPE			
SENSOR 5 NO.			
SENSOR 5 SPACING			
SENSOR 6 TYPE			
SENSOR 6 NO.			
SENSOR 6 SPACING			
SENSOR 7 TYPE			
SENSOR 7 NO.			
SENSOR 7 SPACING			
SENSOR 8 TYPE			
SENSOR 8 NO.			
SENSOR 8 SPACING			
CABLE NO.			
CABLE TYPE			
CABLE LENGTH			
CABLE SPACING			
CABLE MODEL NO.			
DRIVER			
DRIVER SPACING			
TEST MANDREL			
MANDREL SPACING			
CALIBRATOR			



CENTURY GEOPHYSICAL CORP. PART NO. 786-0040



CENTURY GEOPHYSICAL CORP. PART NO. 786-0040

COMPU-LOG VBL2 PLOT 03-26-82

R069
C.S.R.
LAUNCESTON
HOLE DIAMETER : 12.0
PROBE # 9058A - 242
SENSOR #4 CAL STD CPS = 152
SENSOR #4 CAL RUN CPS = 153
SENSOR #4 CAL BIAS = 0
DATA VBL2 TRUCK # 8038
GREG CREWS APPL.#1005 K

CENTURY G

82-1766
Vol Sub6.

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771504

CGC CENTURY GEOPHYSICAL CORPORATION OF AUSTRALIA

R070 27-03-82
8038 CREWS BRISBANE

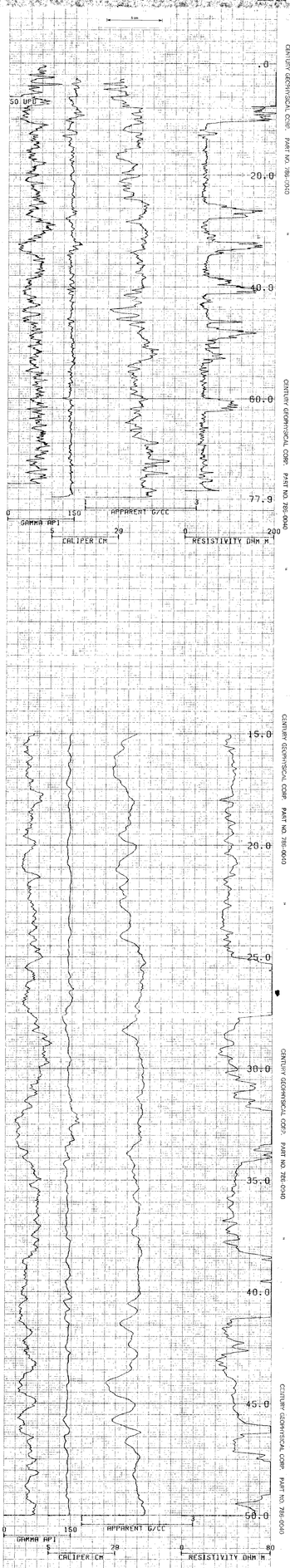
EQUIPMENT DATA

C.S.R.
R070
LAUNCESTON
TAS.

HOLE DATA

TOTAL DEPTH - DRILLER	78 M	BIT SIZE	12 CM
TOTAL DEPTH - LOGGER	77.9 M	CASING - TYPE & SIZE	—
TOTAL METERS LOGGED	77.9 M	CASING DEPTH	—
LOGGING SPEED	9 M/MIN	BOREHOLE FLUID	H2O
REFERENCE LEVEL	G.L.	FLUID RESISTIVITY	—
PROBE NO.	9032L1-896	SOFTWARE LEVEL	V9L1
TAPE 2 TRACK 3		SCALE CALIBRATION	

REMARKS



COMPU-LOG V8L2 PLOT 03-27-82

R070
C.S.R.
LAUNCESTON

HOLE DIAMETER : 12.0
PROBE # 9032L1- 896
SENSOR #4 CAL STD CPS = 4393
SENSOR #4 CAL RUN CPS = 4817
SENSOR #4 CAL BIAS = 0
DATA V8L1 TRUCK # 8038
GREG CREWS APPL. #1030 K

CENTURY GEOPHYSICAL CORP. PART NO. 786-0040

CENTURY GEOPHYSICAL CORPORATION
TULSA, OKLAHOMA, U.S.A.

R070 27-03-82
REAR CREW BRISBANE

EQUIPMENT DATA

C.S.R.
R070
LAUNCESTON
TAS.

WOLDATA

TOTAL DEPTH - DRILLER: 78M
TOTAL DEPTH - LOGGER: 78.0m
TYPE OF FLUID IN HOLE: FRESH
CASING-DRILLER: 12cm
CASING-LOGGER: 78.0m
BOTTOM HOLE TEMP: 7½/MIN ⁴
MAX. REC. TEMP.
EQUIP. NO. 7232-CPU
LOCATION
RECORDED BY
WITNESSED BY
REMARKS: K.C.P.U.N. THROUGH COAL

RUN NO. 1
CASING-TYPE & SIZE
CASING-DEPTH
BOREHOLE FLUID: H2O
FLUID RESISTIVITY
SOURCE OF SAMPLE
RM @ MEAS. TEMP.
RMF @ MEAS. TEMP.
RMC @ MEAS. TEMP.
SOURCE: RMF RMC
RM @ BHT
TIME SINCE CIRC.
MAX. REC. TEMP.
EQUIP. LOCATION
RECORDED BY
WITNESSED BY

82-1766
No. 5 Encl.
32
5015

1cm

.0
20.0
40.0
60.0
78.0

CENTURY GEOPHYSICAL CORP. PART NO. 738-0040

0 150 APPARENT G/CC 3

GAMMA API
7.5 22.5
CALIPER CM
0 200
RESISTIVITY OHM M

CENTURY GEOPHYSICAL CORP. PART NO. 786-0040

10.0
15.0
20.0
25.0
30.0
35.0
40.0
45.0
50.0

CENTURY GEOPHYSICAL CORP. PART NO. 786-0040

CENTURY GEOPHYSICAL CORP. PART NO. 787-0040

CENTURY GEOPHYSICAL CORP. PART NO. 787-0040

0 150 APPARENT G/CC 3

GAMMA API
7.5 22.5
CALIPER CM
0 80
RESISTIVITY OHM M

CENTURY GEOPHYSICAL CORP. PART NO. 787-0040

COMPU-LOG V8L2 PLOT 03-23-82

R070
C.S.R.
LAUNCESTON
HOLE DIAMETER : 12.0
PROBE # 9032C - 001
SENSOR #4 CAL STD CPS = 7127
SENSOR #4 CAL RUN CPS = 4690
SENSOR #4 CAL BIAS = -1
DATA V8L1 TRUCK # 8038
DREG CREWS RPPL #1830 K

CENTURY G

CENTURY GEOPHYSICAL CORPORATION OF AUSTRALIA

R070	27-03-82
8038 CREWS	BRISBANE

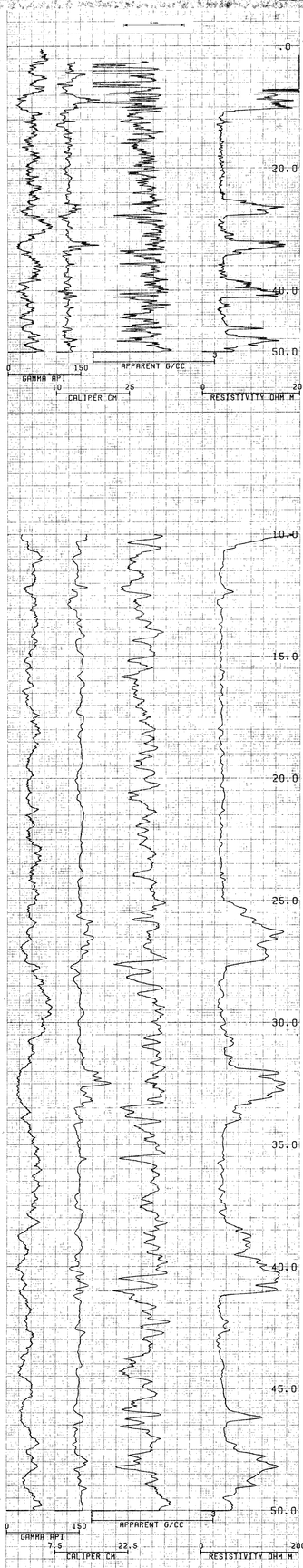
EQUIPMENT DATA

C.S.R.	
R070	
LAUNCESTON	TAS.

HOLE DATA

TOTAL DEPTH - DRILLER	78 M	BIT SIZE	12 CM
TOTAL DEPTH - LOGGER	78.0 M	CASING - TYPE & SIZE	—
TOTAL METERS LOGGED	50.0 M	CASING DEPTH	—
LOGGING SPEED	9 M/MIN.	BOREHOLE FLUID	H_2O
REFERENCE LEVEL	G.L.	FLUID RESISTIVITY	—
PROBE NO.	9032A-901	SOFTWARE LEVEL	V9L1
TAPE 8 TRACK 1		WORK SELECTION	OPERATOR CLIENT

REMARKS



COMPU-LOG V8L2 PLOT 03-27-82

R070
C.S.R.
LAUNCESTON

HOLE DIAMETER : 12.0
PROBE # 9032A - 901
SENSOR #4 CAL STD CPS = 4825
SENSOR #4 CAL RUN CPS = 4752
SENSOR #4 CAL BIAS = 0
DATA V8L1 TRUCK # 8038
GREG CREWS APPL. #1030 M

CENTURY GEOPHYSICAL CORP. PART NO. 786-0040

CENTURY GEOPHYSICAL CORPORATION OF AUSTRALIA

R070 27-03-82

ROTOGRAWS BRISBANE

COMMENT DATA

C.S.R.
R070
LAUNCESTON

TAS.

HOLE DATA

[illegible]	78M	[illegible]	12.6M
[illegible]	78.0M	[illegible]	
[illegible]	78.0M	[illegible]	
[illegible]	18M/MIN	[illegible]	H2O
[illegible]	SOLID	[illegible]	
[illegible]	3050-242	[illegible]	V9C1
TAPE 8	TRACK 2	[illegible]	8

5/7/82
[illegible]

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Vol. 5006.
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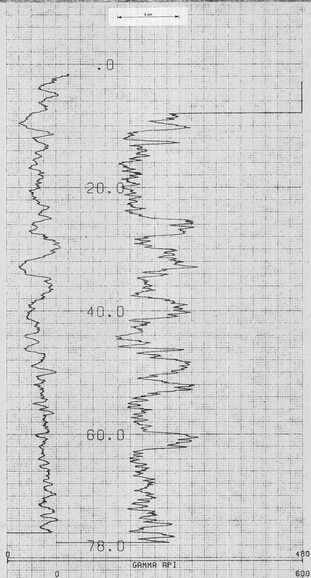
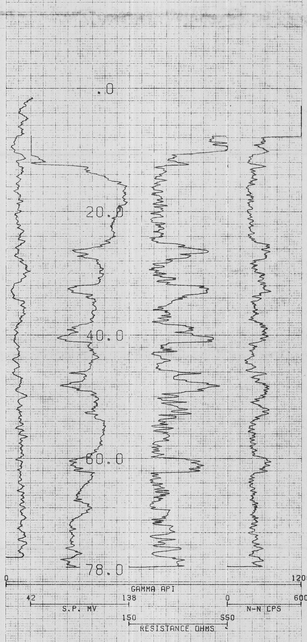


CENTURY GEOPHYSICAL CORP. PART NO. 786-0040



CENTURY GEOPHYSICAL CORP. PART NO. 786-0040

COMPU-LOG V8L2 PLOT 03-27-82

R070
C.S.R.
LAUNCESTON

HOLE DIAMETER : 12.6
PROBE # 8055A - 242
SENSOR #4 CAL STD CPS = 152
SENSOR #4 CAL RUN CPS = 153
SENSOR #4 CAL BIAS = 0
DATA V8L1 TRUCK # 8038
GREG CREWS APPL.#1006 K

CENTURY GEOPHYSICAL CORP. PART NO. 786-0040

CENTURY GEOPHYSICAL CORPORATION OF AUSTRALIA

R071 27-03-82
8038 CREWS BRISBANE

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Vol 6 of 6.
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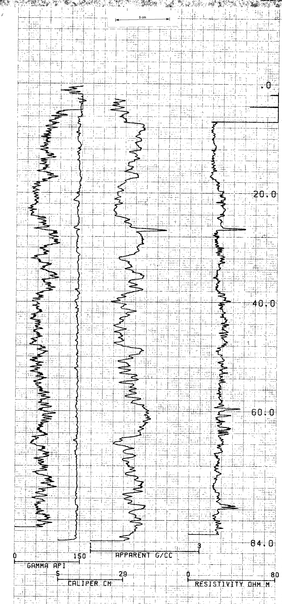
C.S.R.
R071
LAUNCESTON
TAS.

HOLE DATA

	84 M		12 CM
	84.0 M		
	84.0 M		
	7 M/MIN.		H_2O
	G.L.		
	9032L1-896		V9L1
	TAPE & TRACK 3		

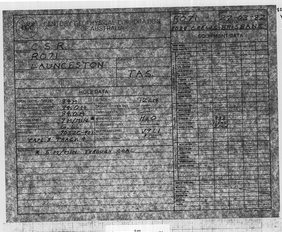
EQUIPMENT DATA

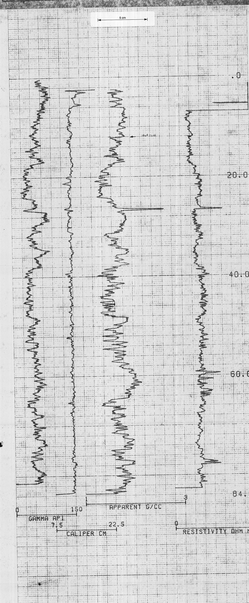


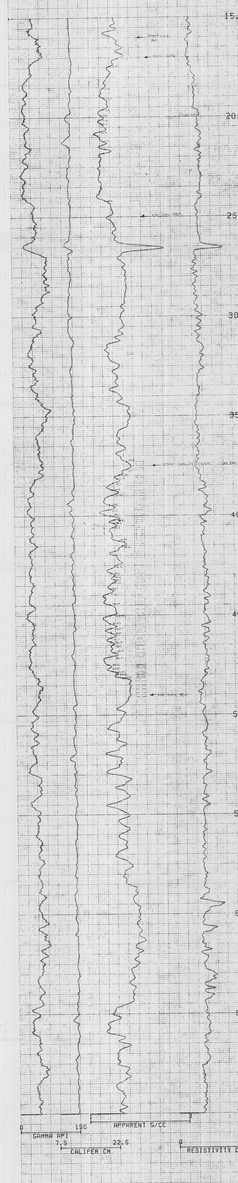
COMPU-LOG V8L2 PLOT 03-27-82

R071
C.S.R.
LAUNCESTON

HOLE DIAMETER = 12.0
PROBE # 8032L1- 896
SENSOR #4 CAL STD CPS = 4393
SENSOR #4 CAL RUN CPS = 4817
SENSOR #4 CAL BIAS = 0
DATA V9L1 TRUCK # 8038
GREG CREWS APPL.#1030 K







COMPU-LOG VAL2 PLOT 03-27-82

R071
C.S.R.
LAUNCESTON
HOLE DIAMETER = 12.0
PROBE # 80320 - 901
SENSOR #4 CAL STD CPS = 7127
SENSOR #4 CAL RUN CPS = 4690
SENSOR #4 CAL BIAS = -1
DATA VALT TRUCK # 8038
GRED CREWS APPL.#1030 M

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Van Sant
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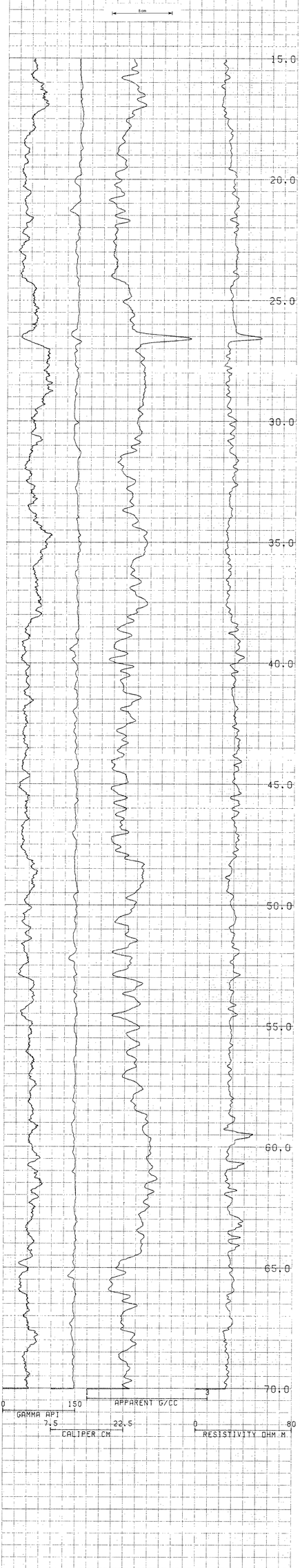
771510

COMPU-LOG V8L2 PLOT 03-27-82

R071
C.S.R.
LAUNCESTON

HOLE DIAMETER : 12.0
PROBE # 9032C - 901
SENSOR #4 CAL STD CPS = 7127
SENSOR #4 CAL RUN CPS = 4690
SENSOR #4 CAL BIAS = -1
DATA V9L1 TRUCK # 8038
GREG CREWS APPL.#1030 K



CENTURY GEOPHYSICAL CORP. PART NO. 786-0040

CENTURY GEOPHYSICAL CORPORATION OF AUSTRALIA

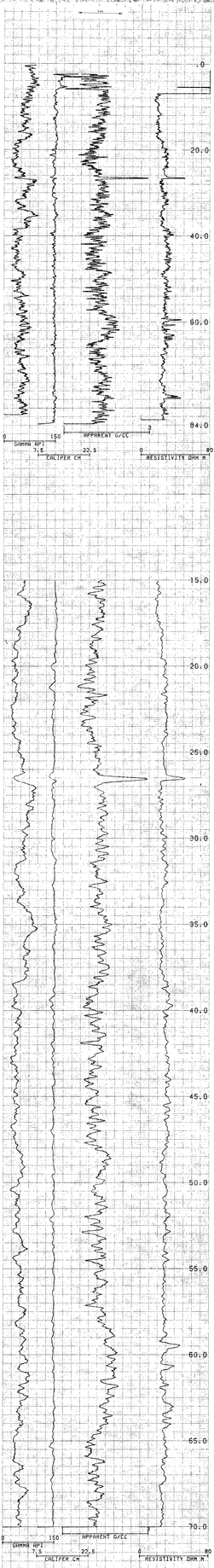
R071 27-03-82
9032 CREWS BRISBANE

C.S.R.
R071
LAUNCESTON
TAS.

HOLE DATA

	84M		12cm
	24.0 M		—
	84.0 M		—
	7M/MIN		H2O
	G.L.		—
	9032A-901		V9LL
TAPE 9	TRACK 1		

EQUIPMENT DATA



COMPU-LOG V8L2 PLOT 03-27-82

R071
C.S.R.
LAUNCESTON

HOLE DIAMETER : 12.0
PROBE # 9032A - 901
SENSOR #4 CAL STD CPS = 4825
SENSOR #4 CAL RUN CPS = 4752
SENSOR #4 CAL BIAS = 0
DATA V8L1 TRUCK # 8038
GREG CREWS APPL.#1080 M

CENTURY GEOPHYSICAL CORP. PART NO. 786-0040

CENTURY GEOPHYSICAL CORPORATION OF AUSTRALIA

C.S.R.	R071 27-03-82
R071	2039 CREWS BRISBANE
LAUNCESTON	EQUIPMENT DATA
TAS.	

HOLE DATA

TOTAL DEPTH LOGGED	84.0M	DIAMETER	12CM
TOTAL DEPTH LOGGED	84.0M	CASING & PIPE DEPTH	—
DEPTH TO BEDROCK	84.0M	CASING DEPTH	—
LOGGING SPEED	18M/MIN	SAMPLE INTERVAL	1.5M
DEPTH TO WATER LEVEL	6.1M	FLUID/MUD TYPE	H2O
HOLE INCLINATION	90.0-242	DEPTH TO WATER LEVEL	V7.61
TAPE 9 TRACK			

REMARKS

	12-1766 Vol Sub 6
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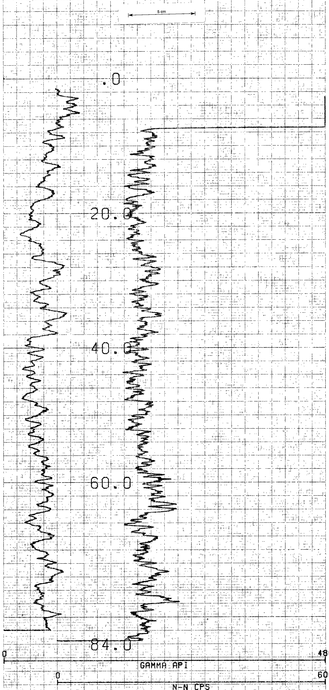
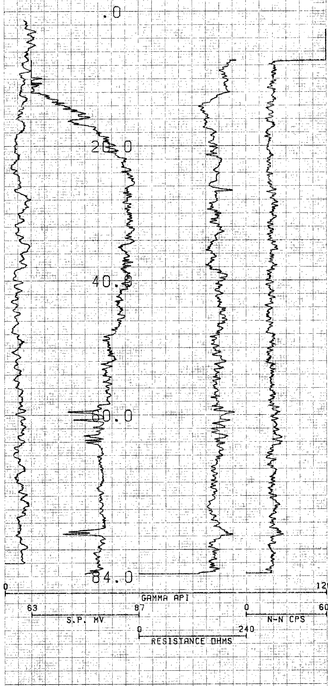
	721512



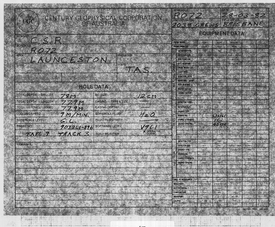


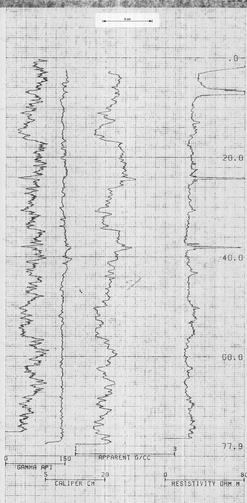
COMPU-LOG V8L2 PLOT 03-27-82

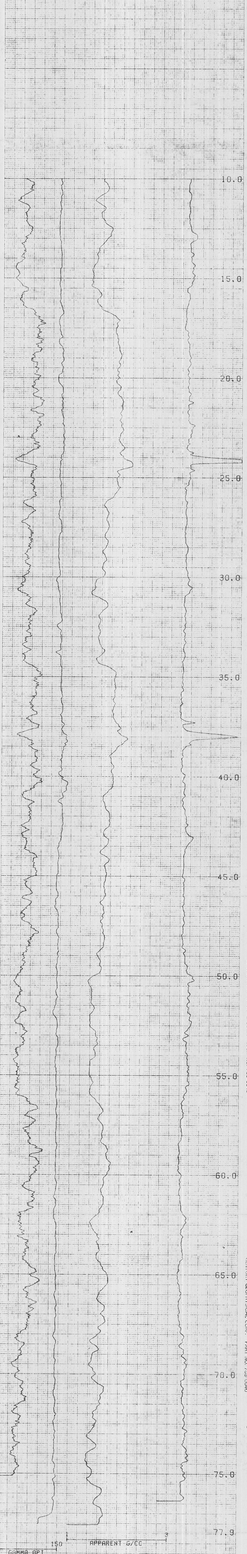
R071
C.S.R.
LAUNCESTON

HOLE DIAMETER : 12.0
PROBE # 8058A - 242
SENSOR #4 CAL STD CPS = 152
SENSOR #4 CAL RUN CPS = 153
SENSOR #4 CAL BIAS = 0
DATA V8L1 TRUCK # 8038
GREG CREWS APPL.#5 K

CENTURY GEOPHYSICAL CORP. PART NO. 786-0040







COMPRH.DS.VBL2 PLOT 03-28-82

R072
C.S.R.
LAUNCESTON

HOLE DIAMETER = 12.0
PROBE = 8022L1- 986
SENSOR #4 CAL STD CPS = 4393
SENSOR #4 CAL RIM CPS = 4917
SENSOR #4 CAL BIAS = 0
DATA VALI TRACK = 8033
GRID CHECK APPL.=1000 K

CENTURY GEOPHYSICAL CORPORATION OF AUSTRALIA

C.S.R.
R072
LAUNCESTON
TAS.

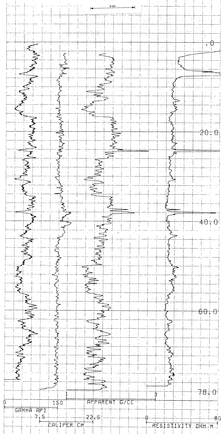
HOLE DATA

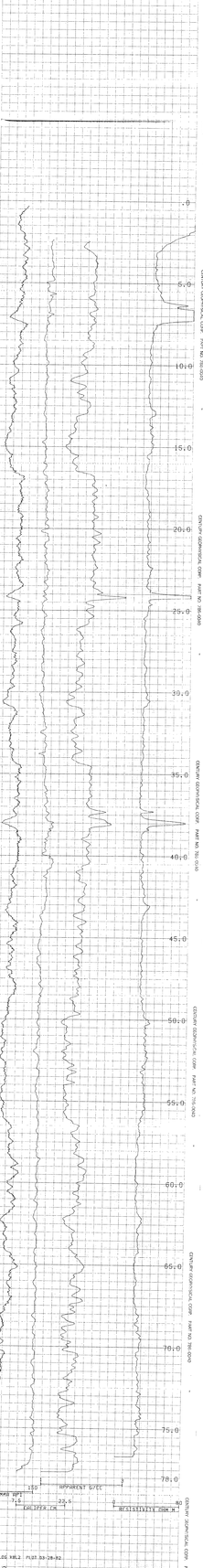
78M	12cm
78.0M	
78.0M	
3 cm/min*	H_2O
GL	
7.5 SEC 3/1	WL1
TAPE 2: TRACK 4	

* 5 cm/min THROUGH COAL

R072 78-03-82
SOZE CREWS BRISBANE

EQUIPMENT DATA





COMPU-LOG XBL2 PLOT 03-28-82

R072
C.S.R.
LAUNCESTON

HOLE DIAMETER = 12.0
PROBE # 9032C - 901
SENSOR #4 CAL STD CPS = 7123
SENSOR #4 CAL RUN CPS = 4690
SENSOR #4 CAL BIAS = -1
DATA VOL1 TRUCK # 8038
GREG CREWS APPL.#3030 K

CENTURY GEOPHYSICAL CORPORATION OF AUSTRALIA

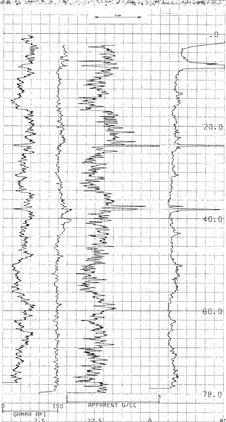
R072	28-03-82
8038 CREWS	BRISBANE

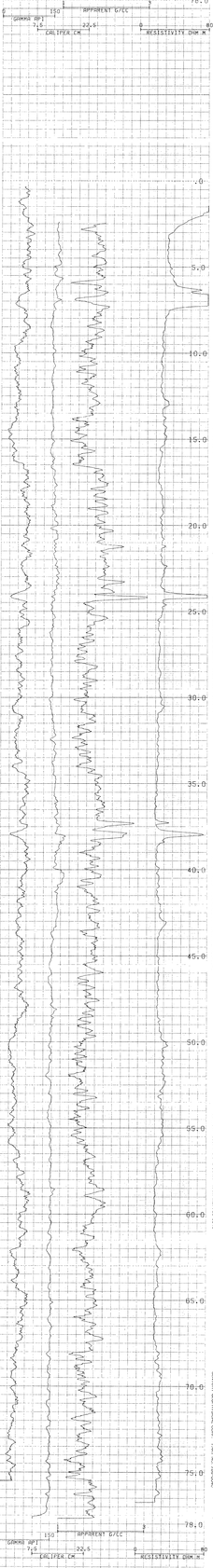
EQUIPMENT DATA

C.S.R.
R072
LAUNCESTON
TAS.

HOLE DATA

	78M		126M
	78.0M		
	78.0M		
	9M/MIN.		H_2O
	G.L.		
	9038A-901		V961
TAPE 10 TRACK 1			





COMPU-LOG V8L2 PLOT 03-28-82

R072
C.S.R.
LAUNCESTON

HOLE DIAMETER = 12.0
PROBE # 9032A - 901
SENSOR #4 CAL STD CPS = 4825
SENSOR #4 CAL RUN CPS = 4752
SENSOR #4 CAL BIAS = 0
DATA V8L1 TRUCK # 8038
SRED CREWS APPL.#3030 K

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CGC CENTURY GEOPHYSICAL CORPORATION OF AUSTRALIA

COMPANY	C.S.R.
BOREHOLE	R072
AREA	LAUNCESTON
ELEVATION	
STATE	TAS

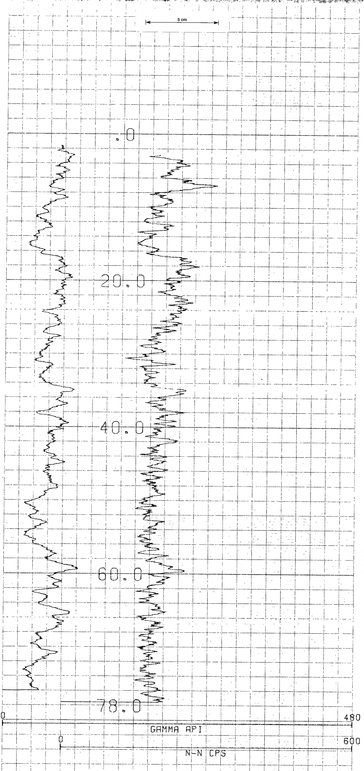
RO72	28-03-82		
9038 CREWS	BRISBANE		

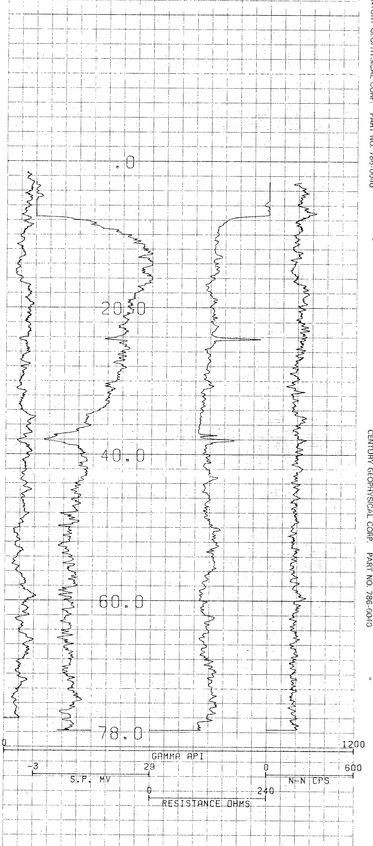
EQUIPMENT DATA

HOLE DATA

TOTAL DEPTH - DRILLER	78M	BIT SIZE	12CM
TOTAL DEPTH - LOGGER	78.0M	CASING - TYPE & SIZE	—
TOTAL METERAGE LOGGED	78.0M	CASING DEPTH	—
LOGGING SPEED	18M/MIN.	BOREHOLE FLUID	H_2O
REFERENCE LEVEL	G.L.	FLUID RESISTIVITY	
PROBE NO.	9050-242	SOFTWARE LEVEL	V9L1
TAPE 10 TRACK 2		SCALE NO.	

REMARKS



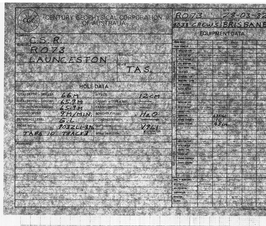


COMPU-LOG V9L2 PLOT 03-28-82

R072
C.S.R.
LAUNCESTON

HOLE DIAMETER : 12.0
PROBE # 9055A - 242
SENSOR #4 CAL STD CPS = 152
SENSOR #4 CAL RUN CPS = 153
SENSOR #4 CAL BIAS = 0
DATA V9L1 TRUCK # 8038
GREG CREWS APPL.#100S K

CENTURY GEOPHYSICAL CORP. PART NO. 786-0040
CENTURY GEOPHYSICAL CORP. PART NO. 786-0040
CENTURY GEOPHYSICAL CORP. PART NO. 786-0040
CENTURY GEOPHYSICAL CORP. PART NO. 786-0040



CENPO-LOG VOL2 FLOT 03-28-92

R073
C.S.R.
LAUNCESTON

HOLE DIAMETER : 12.0
PROBE # 0032L1- 899
SENSOR #4 CAL STD CPS = 4393
SENSOR #4 CAL RUN CPS = 4517
SENSOR #4 CAL BIAS = 0
DATA VOL1 TRUCK # 8038
GREG CREWS APPL.#1030 M

CENTURY GEOPHYSICAL CORPORATION OF AUSTRALIA

R073 28-03-82

8038 CREWS BRISBANE

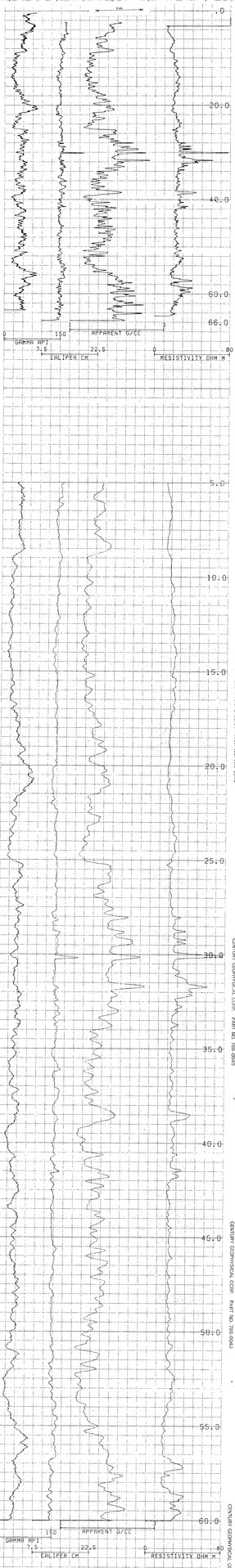
EQUIPMENT DATA

C.S.R.
R073
LAUNCESTON
TAS.

HOLE DATA

TOTAL DEPTH - DRILLER	66 M	BIT SIZE	12 cm
TOTAL DEPTH - LOGGER	66.0 M	CASING - TYPE & SIZE	—
TOTAL METHOD LOGGED	66.0 M	CASING DEPTH	—
GOODING SPEED	9 M/MIN *	BOREHOLE FLUID	H_2O
REFERENCE LEVEL	G.L.	FLUID RESISTIVITY	—
PROBE NO.	9032C-901	SOFTWARE LEVEL	V9L1
TAPE 10 TRACK 4			

REMARKS * 5 M/MIN THROUGH COAL



COMPU-LOG V8L2 PLOT 03-28-82

R073
C.S.R.
LAUNCESTON

HOLE DIAMETER : 12.0
PROBE # 9032C - 901
SENSOR #4 CAL STD CPS = 7127
SENSOR #4 CAL RUN CPS = 4690
SENSOR #4 CAL BIAS = -1
DATA V9L1 TRUCK # 8038
OREG CREWS APPL.#1030 K

CENTURY GEOPHYSICAL CORP. PART NO. 786-0040

CENTURY GEOPHYSICAL CORPORATION OF AUSTRALIA

R073 29-03-82
8038 CREWS BRISBANE

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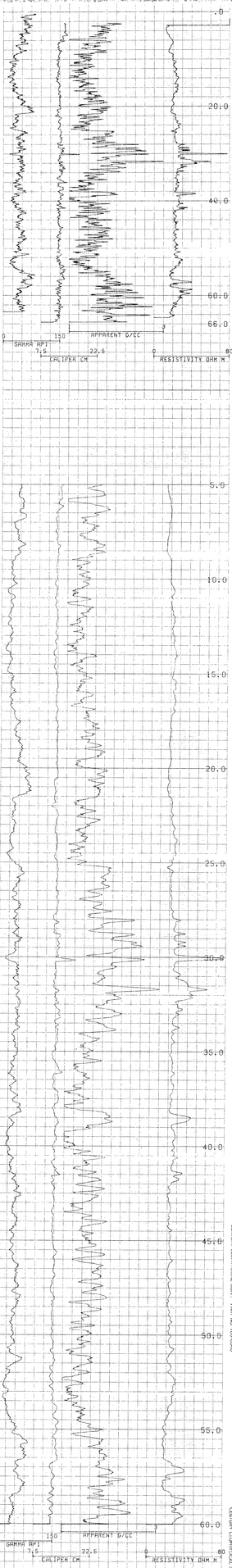
C.S.R.
R073
LAUNCESTON
TAS.

HOLE DATA

	66 M		12 CM
	66.0 M		
	66.0 M		
	9 M/MIN.		H_2O
	G.L.		
	9032A-901		V9L1
TAPE II TRACK 1			

EQUIPMENT DATA



COMPU-LOG V8L2 PLOT 03-28-82

R073
C.S.R.
LAUNCESTON

HOLE DIAMETER : 12.0
PROBE # 9032A - 901
SENSOR #4 CAL STD CPS = 4825
SENSOR #4 CAL RUN CPS = 4752
SENSOR #4 CAL BIAS = 0
DATA V8L1 TRUCK # 8038
GREG CREWS APPL.#1020 K

1m

CENTURY GEOPHYSICAL CORP. PART NO. 786-0040

CENTURY GEOPHYSICAL CORPORATION OF AUSTRALIA

R073	28-03-82
2039 CREWS	BRISBANE

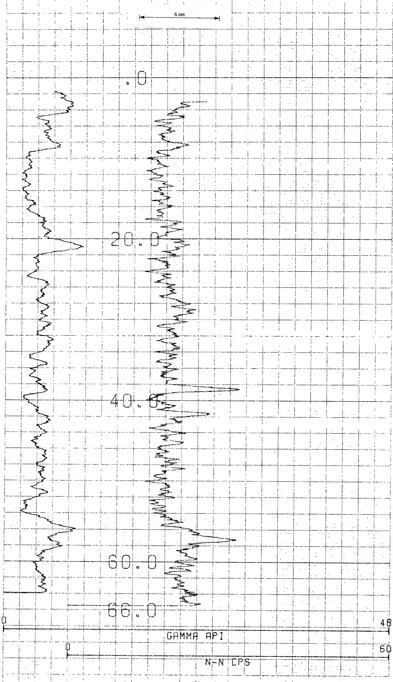
EQUIPMENT DATA

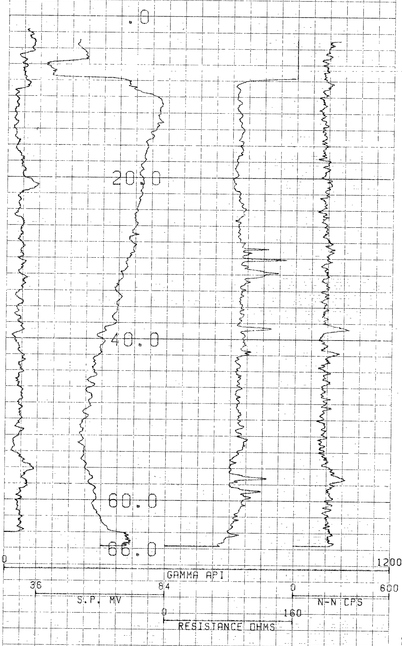
COMPANY	C.S.R.
WELL	R073
FIELD	LAUNCESTON
STATE	TAS

HOLE DATA

TOTAL DEPTH - DRILLER	66 m	BIT SIZE	12 cm
TOTAL DEPTH - LOGGER	66.0 m	CASING - TYPE & SIZE	
TOTAL DEPTH - LOGGED	66.0 m	CASING DEPTH	
LOGGING SPEED	18 M/MIN	BOREHOLE FLUID	H2O
REFERENCE LEVEL	G.L.	FLUID RESISTIVITY	
PROBE NO.	9050-242	SOFTWARE LEVEL	V9L1
TAPE 11 TRACK 2		DRILLER DEPTH	

REMARKS





COMPU-LOG V8L2 PLOT 03-28-82

R073
C.S.R.
LAUNCESTON

HOLE DIAMETER : 12.0
PROBE # 9055A - 242
SENSOR #4 CAL STD CPS = 152
SENSOR #4 CAL RUN CPS = 153
SENSOR #4 CAL BIAS = 0
DATA V9L1 TRUCK # 8038
GREG CREWS APPL.#1005 K

CENTURY GEOPHYSICAL CORP. PART NO. 786-0040

CENTURY GEOPHYSICAL CORP. PART NO. 786-0040

CENTURY GEOPHYSICAL CORP. PART NO. 786-0040

CENTURY GEOPHYSICAL CORP. PART NO. 786-0040

CENTURY G

CENTURY GEOPHYSICAL CORPORATION OF AUSTRALIA

R074 — 29-03-82
COMPANY: C.S.R.
WELL: R074
FIELD: LAUNCESTON
LOCATION: TAS
3038 CREWS BRISBANE

HOLE DATA
TOTAL DEPTH — DRILLER: 66M
TOTAL DEPTH — LOGGER: 66.0M
CASING SHOE DEPTH: 66.0M.
TOP LOG INTERVAL: 3M/MIN.
REFERENCE LEVEL: G.L.
RECORDED BY: 9032L1-886
WITNESSED BY: STAPE II TRACK 3
REMARKS:

BIT SIZE: 12cm
CASING TYPE & WEIGHT:
CASING DEPTH:
BOREHOLE FLUID: H2O
FLUID RESISTIVITY: 1.0Ω
TIME SINCE CIRC.:
MAX. REC. TEMP.:
EQUIP. LOCATION: V9L1
RECORDED BY: CREWS

EQUIPMENT DATA

TOOL MODEL			
DETECTOR			
DETECTOR NO.			
DETECTOR SIZE			
DETECTOR TYPE			
DETECTOR VOLTAGE			
DETECTOR SETTING			
SOURCE TYPE			
SOURCE SIZE			
SOURCE STRENGTH			
SOURCE SPACING			
SPACING TOLERANCE			
SOURCE TO DETECTOR			
SOURCE SHIELDING			
LOGGING SPEED			
TIME CONSTANT			
LOGGING FACTOR			
DETECTOR TYPE			
DETECTOR SIZE			
SPACING TOLERANCE			
SPACING			
LOGGING SPEED			
TIME CONSTANT			
LOGGING FACTOR			
SAFETY ENGINEER			
FIELD ENGINEER			
FIELD TECHNICIAN			
OPERATOR			
TRUCK			

PART NO. 786-0040

5 cm

.0
20.0
40.0
60.0
66.0

0 150 APPARENT G/CC 3
GAMMA API
5 29 CALIPER CM
0 80 RESISTIVITY OHM M

CENTURY GEOPHYSICAL CORP. PART NO. 786-0040

5.0
10.0
15.0
20.0
25.0
30.0

0 150 APPARENT G/CC 3
GAMMA API
5 29 CALIPER CM
0 80 RESISTIVITY OHM M

CENTURY GEOPHYSICAL CORP. PART NO. 786-0040

COMPU-LOG VAX 2 PLOT 03-29-82

R074
C.S.R.
LAUNCESTON
HOLE DIAMETER : 12.0
PROBE # 9032L1- 886
SENSOR #4 CAL STD CPS = 4383
SENSOR #4 CAL RUN CPS = 5072
SENSOR #4 CAL BIAS = 0
DATA V9L1 TRUCK # 8038
GREG CREWS APPL.#1030 K

CENTURY GEOPHYSICAL CORP. PART NO. 786-0040

CENTURY GEOPHYSICAL CORPORATION
OF AUSTRALIA

R074 27-03-82
8032 CHEWS BRISBANE

C.S.R.
R074
LAUNCESTON TAS

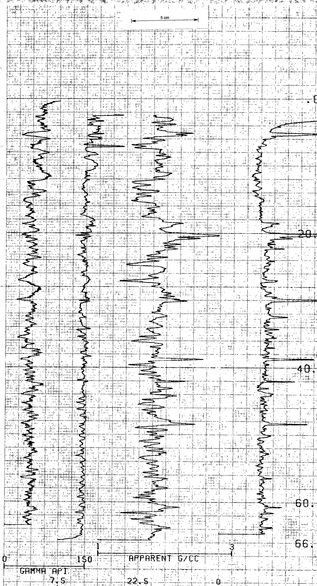
HOLE DATA

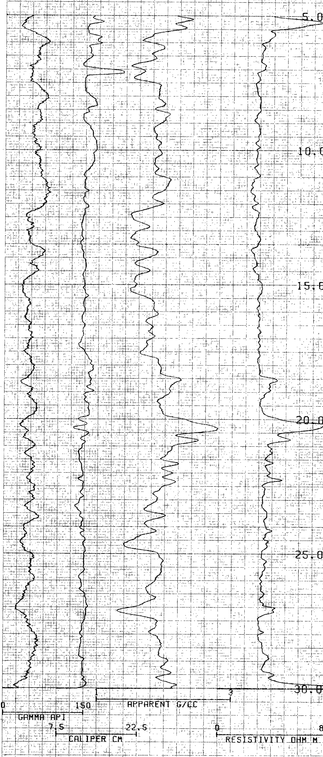
DRILLING COMPANY		DRILL BIT	12.0
TOTAL DEPTH - LOGGER	66.0 M	CASING DEPTH	
TOTAL DEPTH - DRILLER	66.0 M	CASING DIAM	
CASING SHOE	7.9M	DRILLING FLUID	H_2O
KELLY BUSHING	G.L	FLUID RESISTIVITY	
TEMP. MAX.	19.5°C-7911	FLUID LEVEL	V911
TAPE 11 TRACK 4		Instrumentation	

REMARKS * 5.8 M/min. THROUGH COAL

EQUIPMENT DATA

DIAMETER	1.75		
MAX. TEMP.	125		
CABLE TYPE	1		
CABLE LENGTH	1000		
CABLE DIAM.	0.4		
CABLE WEIGHT	1.5		
CABLE STRENGTH	1000		
CABLE TERMINATION			
SPEED	5.8 M/min		
DEPTH CALIBRATION	12 Km		
DEPTH CONTROL			
DEPTH WHEEL			
CALIBRATION			
OPERATOR			
RECORDER			
CALIBRATOR			
DATA TYPE			
DATA FORMAT			
DATA RATE			
DATA STORAGE			
DATA PROCESSING			
DATA DISPLAY			
DATA TRANSMISSION			
CREW			





COMPU-LOG V8L2 PLOT 03-28-82

R074
C.S.R.
LAUNCESTON
HOLE DIAMETER : 12.0
PROBE # 8032 - 801
SENSOR #4 CAL STD CPS = 7127
SENSOR #4 CAL RUN CPS = 4724
SENSOR #4 CAL BIAS = -1
DATA V8L1 TRUCK # 8038
GEOG CREWS APPL #1030 K

CENTURY GEOPHYSICAL CORP. PART NO. 786-0040

CGC CENTURY GEOPHYSICAL CORPORATION OF AUSTRALIA

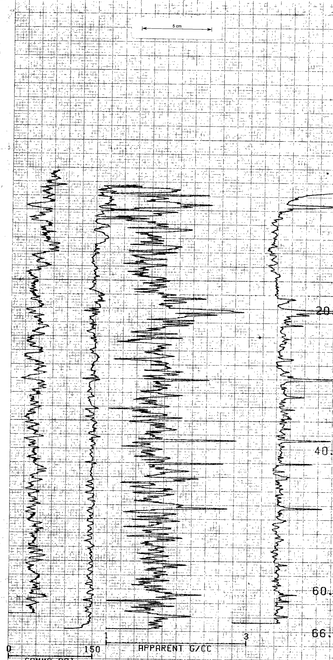
R074 27-03-82
8038 CREWS BRISBANE

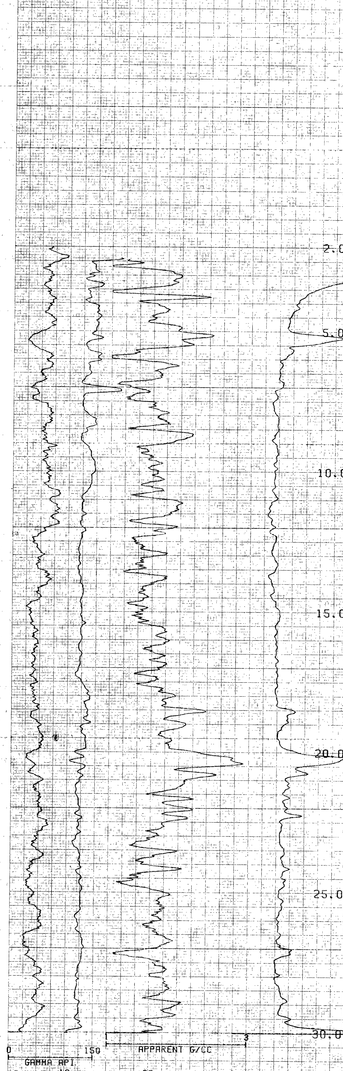
EQUIPMENT DATA

C.S.R.
R074
LAUNCESTON
TAS.

HOLE DATA

TOTAL DEPTH - DRILLER	66M	BIT SIZE	12cm
TOTAL DEPTH - LOGGER	66.0M	CASING TYPE & SIZE	—
TOTAL DEPTH - LOGGER	66.0M	CASING DEPTH	—
LOGGING SPEED	7M/MIN.	BOREHOLE FLUID	H_2O
REFERENCE LEVEL	G.L.	FLUID TEMPERATURE	—
PROBE	7032A-901	TOOL TYPE & SIZE	V9L1
TAPE 12	TRACK 1		





COMPU-LOG V8L2 PLOT 03-28-82

R074
C.S.R.
LAUNCESTON

HOLE DIAMETER : 12.0
PROBE # 8032A - 901
SENSOR #4 CAL STD CPS = 4825
SENSOR #4 CAL RUN CPS = 4752
SENSOR #4 CAL BIAS = 0
DATA V9L1 TRUCK # 8038
GREG CREWS APPL.#1030 K

CENTURY GEOPHYSICAL CORP. PART NO. 786-0040

82-1761.
Vol 6 of 6
51
2-2-82

CENTURY GEOPHYSICAL CORPORATION OF AUSTRALIA

COMPANY: C.S.R.
BOREHOLE: R074
AREA: LAUNCESTON STATE: TAS.
ELEVATION:

HOLE DATA

TOTAL DEPTH – DRILLER	66M	BIT SIZE	12CM
TOTAL DEPTH – LOGGER	66.0M	CASING – TYPE & SIZE	—
TOTAL MEASURE LOGGED	66.0M	CASING DEPTH	—
LOGGING SPEED	18M/MIN	BOREHOLE FLUID	H2O
REFERENCE LEVEL	G.L.	FLUID RESISTIVITY	—
PROBE NO.	7050-242	SOFTWARE LEVEL	V8L2
TAPE 12 TRACK 2		BRAKE SELECTION	FORMATION / CLIENT

REMARKS:

BOREHOLE R074 — DATE 29-03-82
INVESTIGATOR — FIELD OFFICE 2038 CREWS BRISBANE

EQUIPMENT DATA

	PROBE MODEL			
PROBE	PROBE DIAMETER			
	DETECTOR TYPE			
	DETECTOR SIZE			
	STD. S/FACTOR			
	STD. SPACING			
	CSNG. WORK USE			
	ZERO DATE			
	S/FACTOR			
	PLASTONE			
	DEAD READING			
	NEUTRON SOURCE			
	CALIBRATOR			
SONDE	DETECTOR TYPE			
	DETECTOR SIZE			
	SPACING			
	SOURCE NO.			
	SOURCE STRENGTH			
	SOURCE SPACING			
CALIPER	CALIPER TYPE			
	CALIPER SIZE			
	CALIPER SPACING			
	CALIPER NO.			
	CALIPER STRENGTH			
	CALIPER SPACING			
CABLE	CABLE RESISTANCE			
	CABLE TYPE			
	CABLE NO.			
	CABLE LENGTH			
	CABLE SPACING			

CENTURY GEOPHYSICAL CORPORATION OF AUSTRALIA

CLIENT: C.S.R.
WELL: RD75
AREA: LAUNCESTON
STATE: TAS.

HOLE DATA

TOTAL DEPTH - DRILLER	78m	BIT SIZE	12¼"
TOTAL DEPTH - LOGGER	76.5m	CASING - SIZE & WEIGHT	
CASING SHOE - DRILLER	6m	CASING - GRADE & TYPE	
CASING SHOE - LOGGER	6m	CEMENTED TO	
LOGGING ENGR.	M.HOW	CEMENTED FROM	H.O
METHOD USED	ROTARY	FLUID RESISTIVITY	
FROM W.L.	ROTARY	FLUID LEVEL	V.G.I
REMARKS	TAPE IS TRACES	EQUIPMENT NO.	

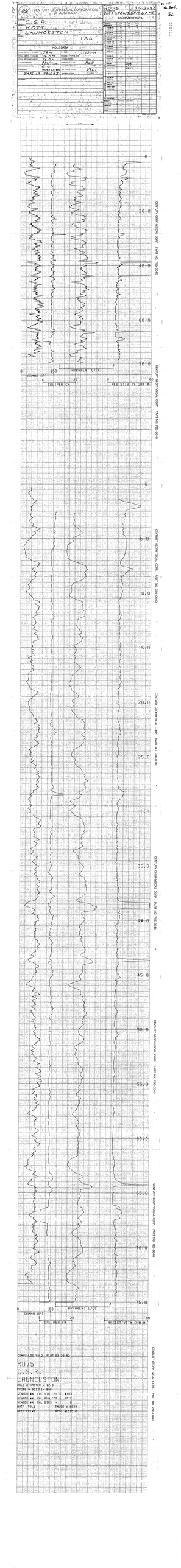
EQUIPMENT DATA

RECORDED			
	RUN 1	RUN 2	RUN 3
LOGGING DATE	27-7-82		
LOGGING UNIT	2		
LOGGING ENGR.	M.HOW		
OPERATOR	M.HOW		
CALIBRATION DATE	27-7-82		
CALIBRATION UNIT	2		
CALIBRATION ENGR.	M.HOW		
CALIBRATION OPERATOR	M.HOW		
CALIBRATION WITNESS			
LOGGING DATA			
LOGGING SPEED	3m/min		
TIME CONSTANT	1 SEC		
DEPTH CONTROL			
DEPTH CORRECTION			
CABLE TYPE			
CABLE LENGTH			
PROBE TYPE			
PROBE SERIAL NO.			
PROBE DIAMETER			
PROBE LENGTH			
PROBE WEIGHT			
MEASURE POINT OFFSET			
REMARKS			

FIELD STRENGTH			
MAGNETIC DECLINATION			
GRID CORRECTION			
TYPE OF FIELD			
REMARKS			

RECEIVED			
	RUN 1	RUN 2	RUN 3
RECEIVED AT	HOBART		
RECEIVED DATE	28-7-82		
PROCESSED BY			
PROCESSING DATE			
REMARKS			

RD75 27-7-82
M. How
S2



COMPILATION VOL 2 PLOT 83-28-82

RD75
C.S.R.
LAUNCESTON
HOLE DIAMETER : 12.0
PROBE # 0023(1-898
SCANSON #4 CAL STD CPS = 4388
SCANSON #4 CAL RUN CPS = 5072
SCANSON #4 CAL BIAS = 0
BATH VOL1 THICK = 8098
BATH CHECK METL WIDTH =

CENTURY GEOPHYSICAL CORPORATION OF AUSTRALIA

R075 — 27-03-92

MAX CAL WID: 8.0 IN

EQUIPMENT DATA

C.S.R.
R075
LAUNCESTON
TAS.

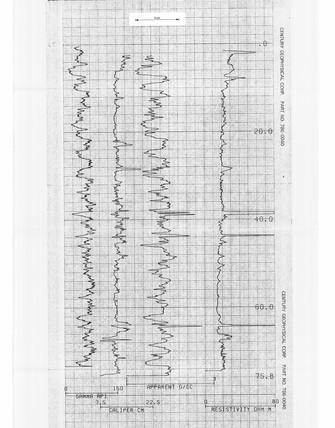
HOLE DATA

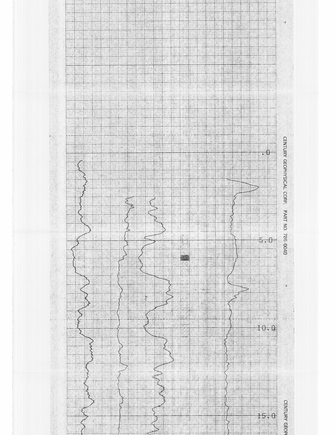
BIT SIZE 1 FROM	77m	TO	124m
BIT SIZE 2 FROM	26.5m	TO	
CASING SIZE 1 FROM	16.8m	TO	
CASING SIZE 2 FROM	7.5m	TO	8.0
MUD WEIGHT	9.0 LB/GAL	VISCOSITY	40 SEC
FLUID LOSS	MUD		

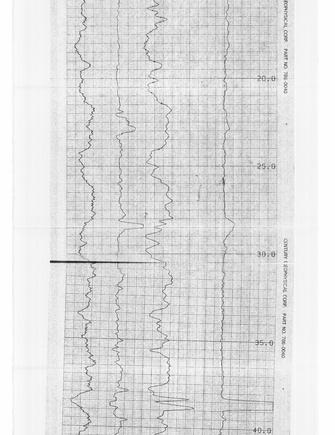
TAPE IS SCALED IN FEET

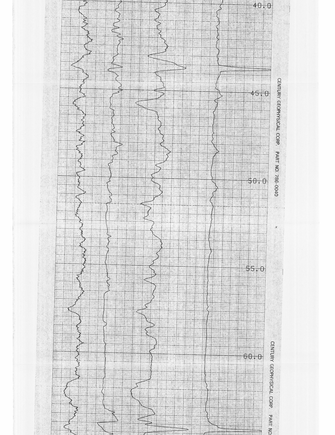
RUN 1 — 8.5.1991 — LOGGING

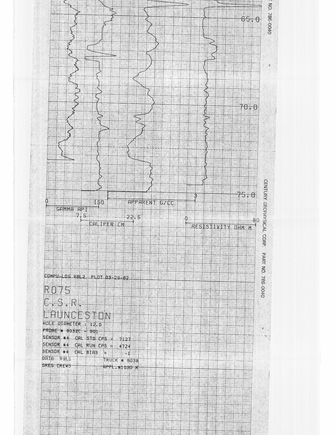
REMARKS: 8.5.1991 THROUGH COAL











COMPU-LOG SYS.2 PLOT 23-04-92

R075
C.S.R.
LAUNCESTON
HOLE DIAMETER 12.0
PROBE # 80880 - 1000
SENSOR #4 CAL 838.0MS.4 0121
SENSOR #4 CAL MIN.MS. = 4724
SENSOR #4 CAL 8180 = -1
DATA FILE THICK # 80358
DRUM CHEVRON APPL. #10380 M