

**STUDY OF WELL LOGS
IN THE ARCTIC ISLANDS
TO OUTLINE PERMAFROST THICKNESS AND/OR
GAS HYDRATE OCCURENCE**

Volume 2; Appendices 'B' and 'C'

Prepared For
SUPPLY AND SERVICES CANADA
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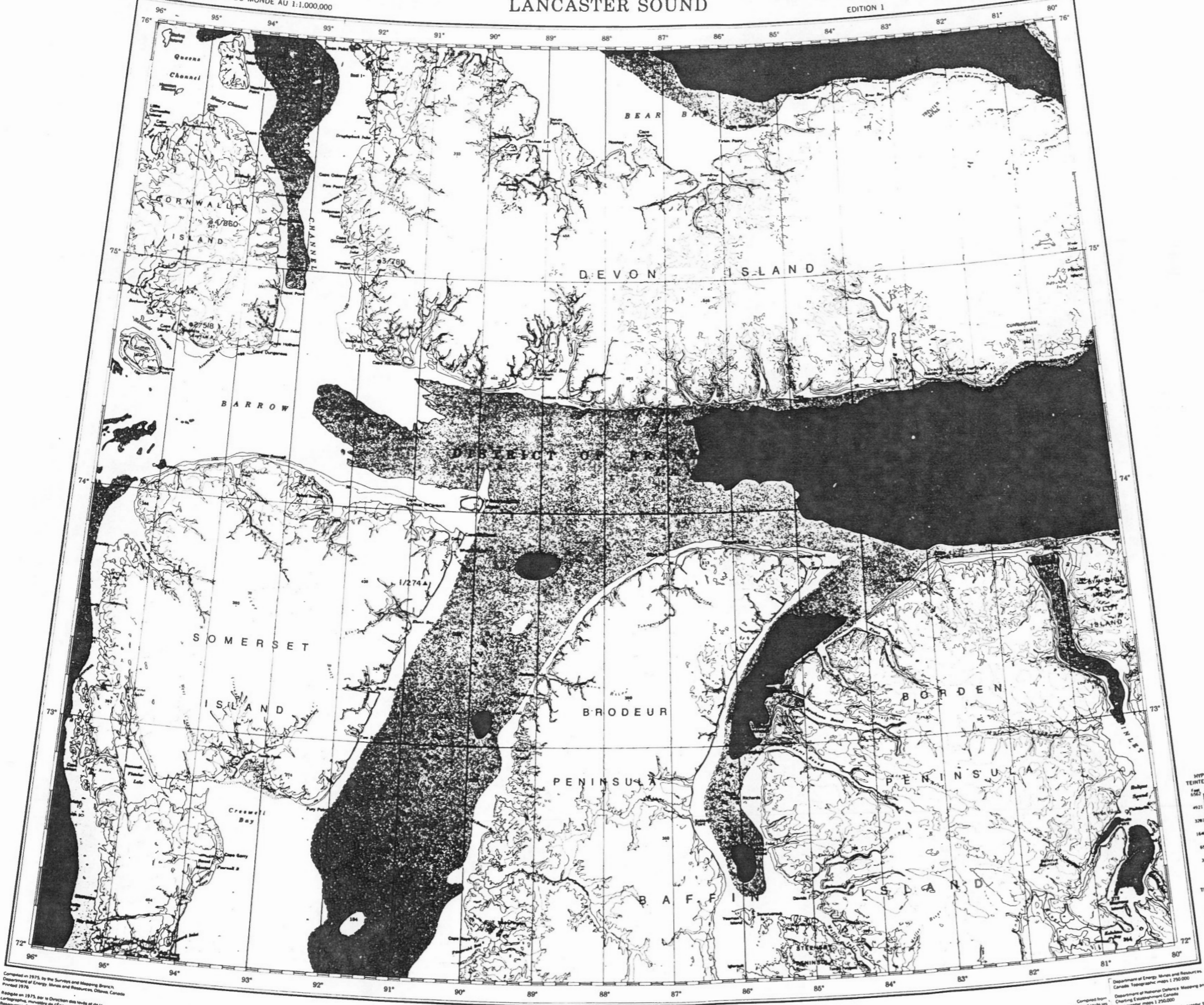
CONSULTING ENGINEERING & PROFESSIONAL SERVICES

APPENDIX "B"
Maps (Volume II)

LANCASTER SOUND

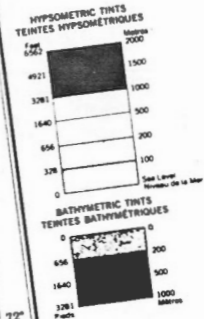
EDITION 1

NS-15/16/17



LEGEND

- 135/652 Well No./IBPF Base: Hydrates interpreted
- ▲ 147/293 Well No./IBPF Base: No hydrates interpreted (or traces only)
- 72 Well for which no Petrophysical Logs



Compiled in 1975 by the Surveys and Mapping Branch, Department of Energy Mines and Resources, Ottawa, Canada. Printed in 1975.

Édité en 1975 par le Direction des cartes et des ressources, Ottawa, Canada, imprimé en 1975.

Lambert Conformal Conic Projection

Projection conique conforme de Lambert

Department of Energy, Mines and Resources, Canada. Topographic maps 1:750,000. Department of National Defence, Mapping and Charting Establishment, Canada. Topographic maps 1:250,000. Bathymetry by the Canadian Hydrographic Service.



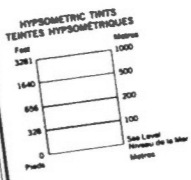
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PERMAFROST THICKNESS AND HYDRATE OCCURENCE MAP I



LEGEND

- 135/652 Well No./IBPF Base: Hydrates interpreted
- ▲ 147/293 Well No./IBPF Base: No hydrates interpreted (or traces only)
- 72 Well for which no Petrophysical Log



Compiled in 1975, by the Survey and Mapping Branch, Department of Energy Mines and Resources, Ottawa, Canada, Printed 1976.
 Révisé en 1975, par la Division des cartes et de la cartographie, Ministère de l'Énergie, des Mines et des Ressources, Ottawa, Canada, imprimé en 1976.

Lambert Conformal Conic Projection

Projection conique conforme de Lambert

Compiled from Topographic maps 1:250,000
 Department of National Defence, Mapping and Charting Establishment, Canada
 Topographic maps 1:250,000
 Bathymetry by the Canadian Hydrographic Service

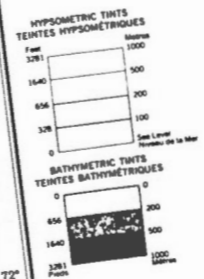
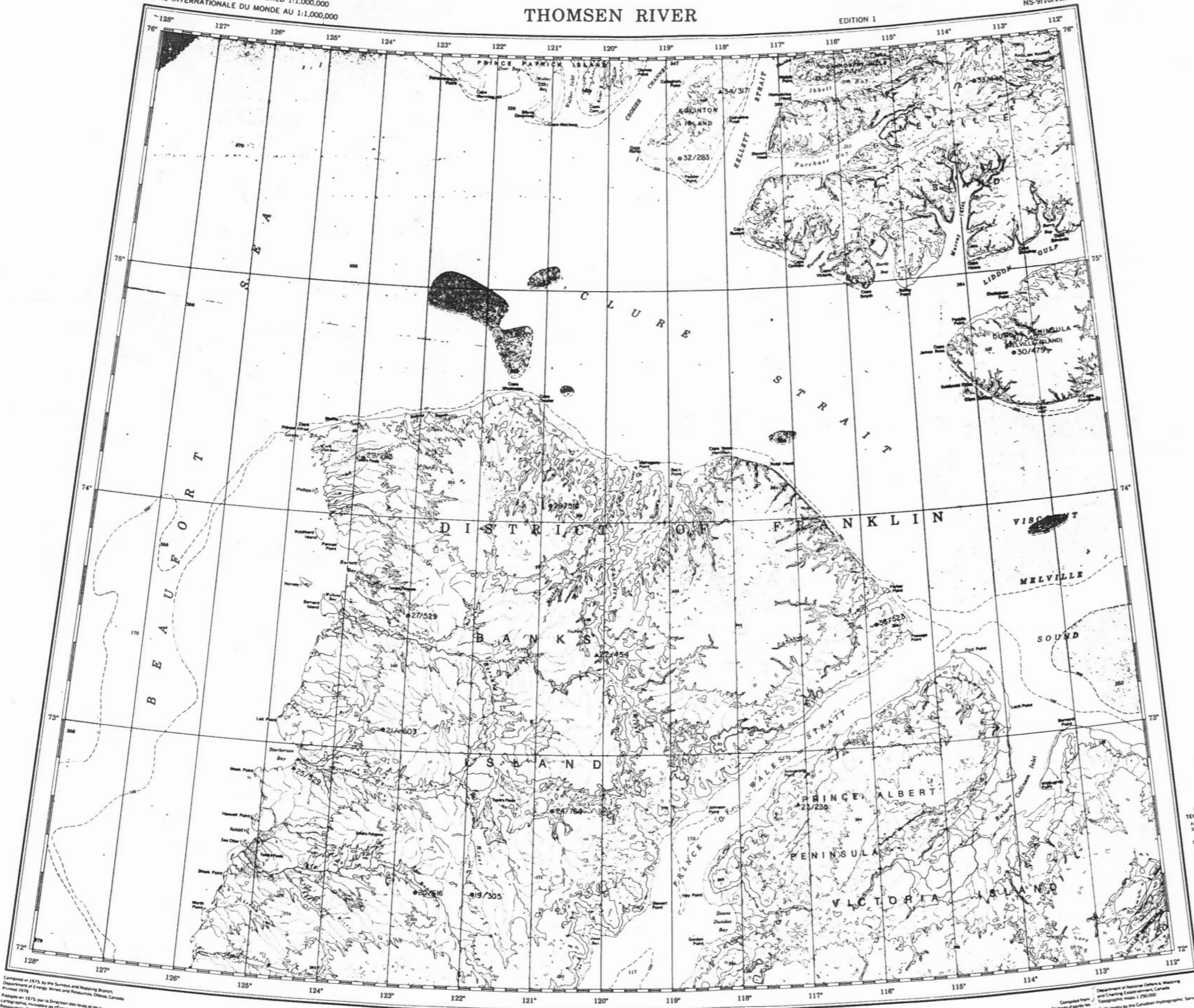


PERMAFROST THICKNESS AND HYDRATE OCCURENCE
 MAP 2

THOMSEN RIVER

EDITION 1

NS-9/10/11/12



LEGEND

- 135/652 Well No./IBPF Base: Hydrates interpreted
- ▲ 147/293 Well No./IBPF Base: No hydrates interpreted (or traces only)
- 72 Well for which no Petrophysical Logs

Compiled in 1975 by the Survey and Mapping Branch, Department of Energy Mines and Resources, Ottawa, Canada. Printed in 1976.
 Rédigé en 1975 par la Direction des Travaux et des Cartographies, Ministère de l'Énergie, des Mines et des Ressources, Ottawa, Canada, imprimé en 1976.

Lambert Conformal Conic Projection

Projection conique conforme de Lambert

Department of National Defence, Mapping and Charting Establishment, Canada. Topographic maps 1:250,000. Bathymetry by the Canadian Hydrographic Service.



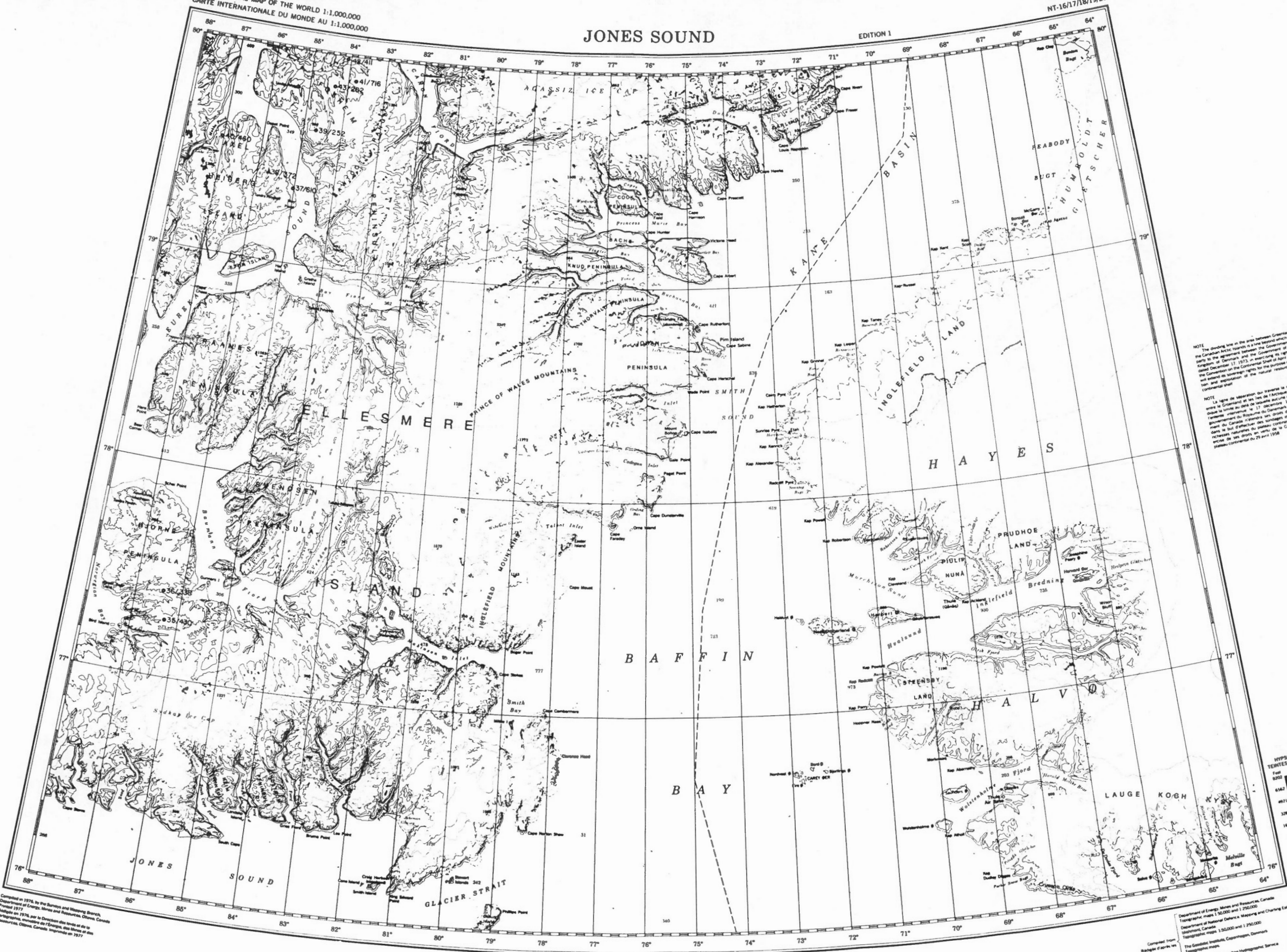
PERMAFROST THICKNESS AND HYDRATE OCCURENCE MAP 3



JONES SOUND

EDITION 1

NT-16/17/18/19/20'

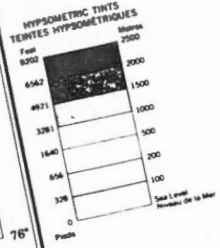


NOTE
 The dividing line in the area between Greenland and the Canadian Arctic islands is a line between which neither party to the agreement between the Government of the Kingdom of Denmark and the Government of Canada dated December 17, 1973, in exercising its rights under the Convention on the Continental Shelf of April 29, 1958, will extend its sovereign rights for the purpose of exploring and exploitation of the natural resources of the continental shelf.

NOTE
 La ligne de séparation qui traverse la région située entre le Groenland et les îles arctiques canadiennes n'est pas une ligne entre laquelle aucune des parties de l'accord international en date du 17 décembre 1973, entre le Gouvernement du Royaume du Danemark et le Gouvernement du Canada n'exercera ses droits de souveraineté dans le but d'explorer les sondages et d'exploiter les richesses naturelles du plateau continental lors de l'entrée de ses droits en vertu de la Convention sur le plateau continental du 29 avril 1958.

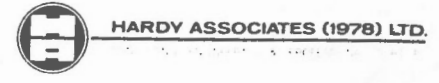
LEGEND

- 135/652 Well No./IBPF Base: Hydrates interpreted
- ▲ 147/293 Well No./IBPF Base: No hydrates interpreted (or traces only)
- 72 Well for which no Petrophysical Logs



Compiled in 1976, by the Survey and Mapping Branch, Department of Energy, Mines and Resources, Canada, on the basis of the 1977 edition of the International Map of the World, 1:1,000,000, published by the International Geographical Commission, Geneva, Switzerland in 1977.

Department of Energy, Mines and Resources, Canada
 Topographic maps 1:50,000 and 1:250,000
 Department of Natural Resources, Mapping and Charting Branch
 Department of Natural Resources, Canada
 Bathymetric maps 1:50,000 and 1:250,000
 The Geomatics Institute, Copenhagen, Denmark
 Bathymetric maps
 Bathymetry by the Canadian Hydrographic Service



PERMAFROST THICKNESS AND HYDRATE OCCURENCE MAP 4

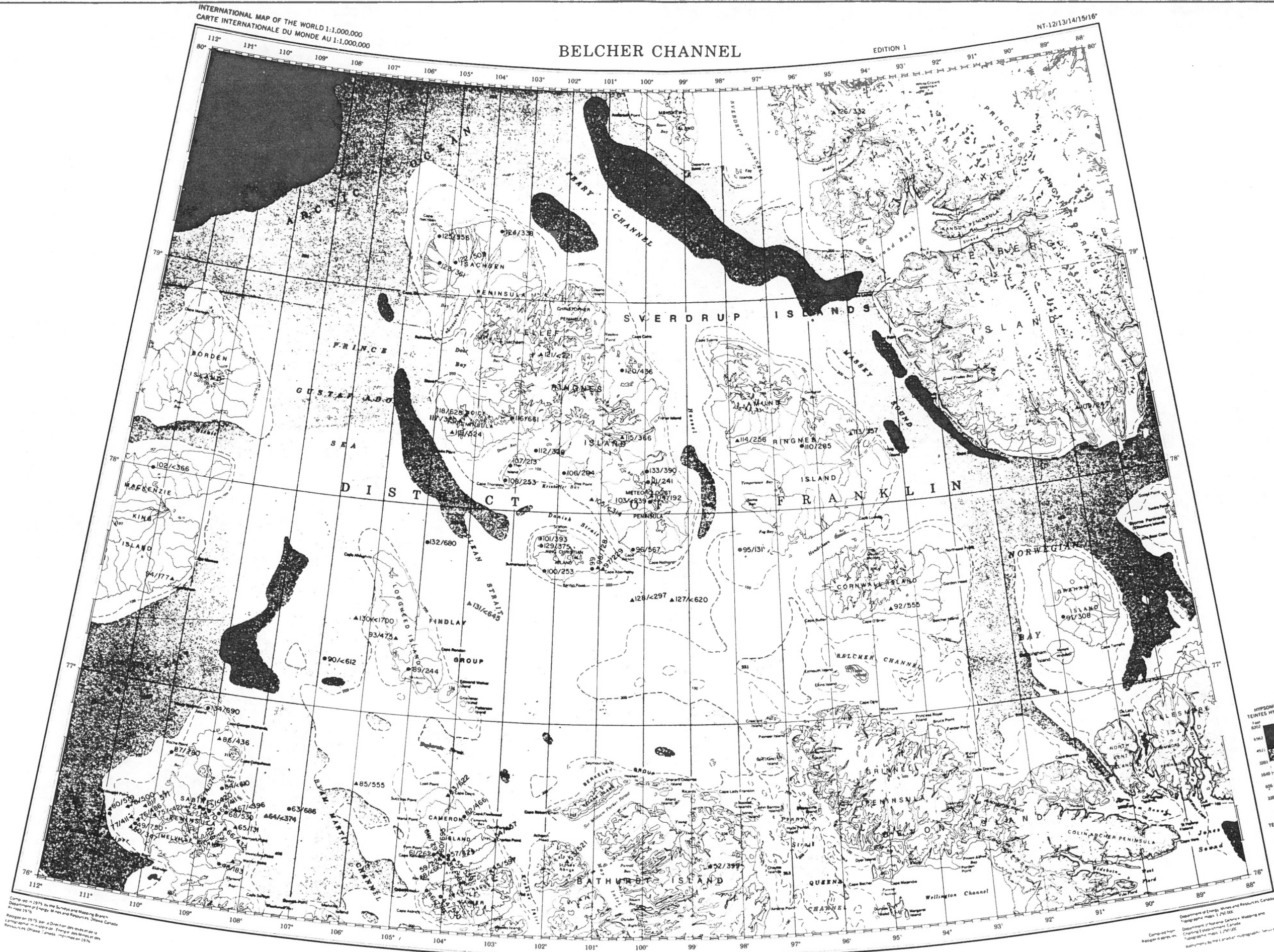


Lambert Conformal Conic Projection
 Projection conique conforme de Lambert

BELCHER CHANNEL

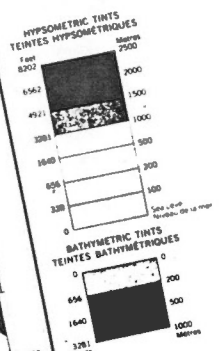
EDITION 1

NT-12/13/14/15/16



LEGEND

- 135/652 Well No./IBPF Base: Hydrates interpreted
- ▲ 147/293 Well No./IBPF Base: No hydrates interpreted (for traces only)
- 72 Well for which no Petrophysical Log



Compiled in 1975 by the Survey and Mapping Branch
 Department of Energy, Mines and Resources, Ottawa, Canada
 Reprinted in 1975 by the Direction des levés et de la
 cartographie - Ministère de l'Énergie des Mines et des
 Ressources (Ottawa, Canada) réimprimé en 1975.

Department of Energy, Mines and Resources, Canada
 Topographic map 1:250,000
 Department of National Defence - Mapping and
 Charting Establishment, Canada
 Topographic map 1:250,000
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PERMAFROST THICKNESS
 AND HYDRATE OCCURENCE
 MAP 5

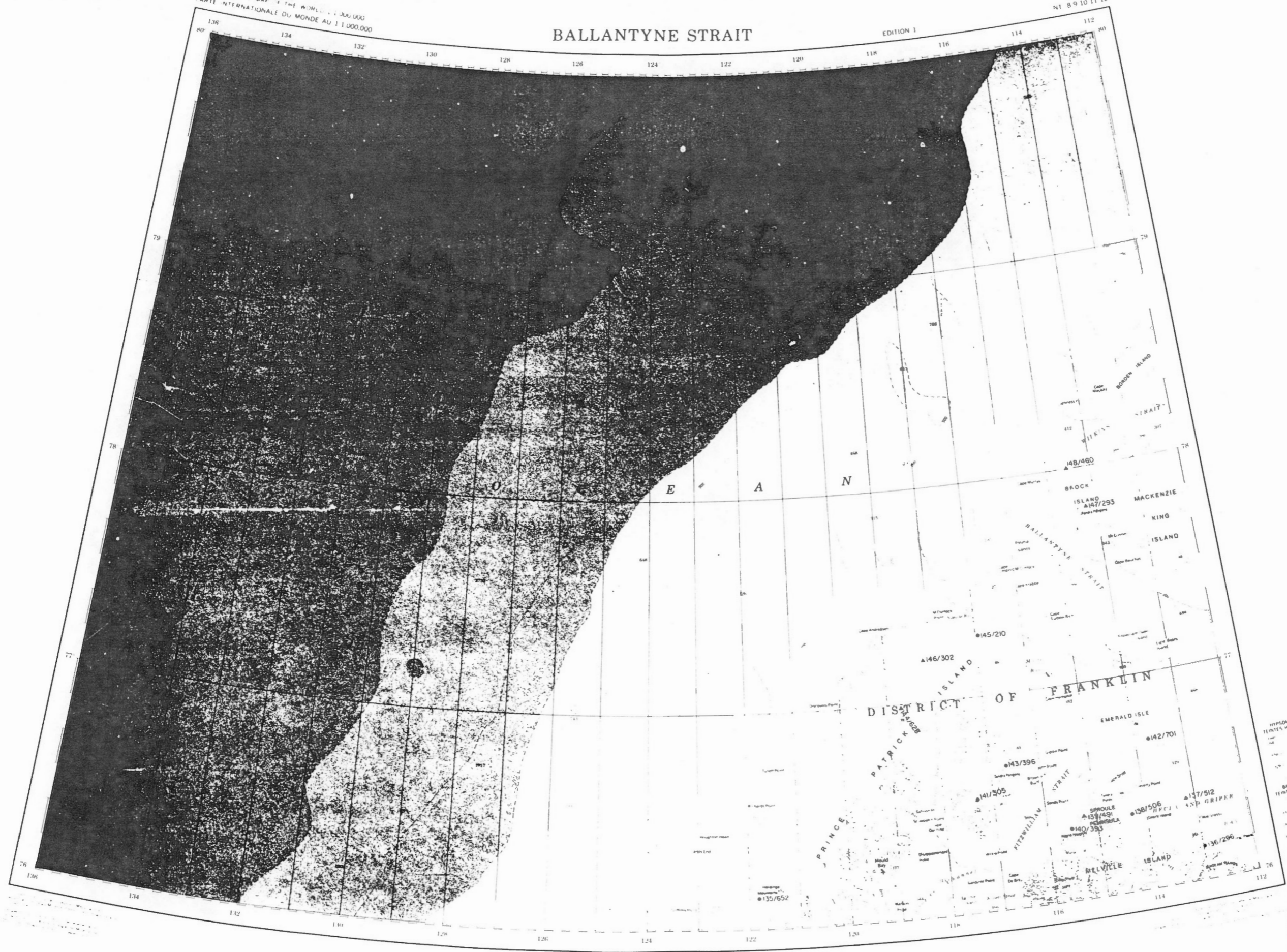


Lambert Conformal Conic Projection Projection conique conforme de Lambert

BALLANTYNE STRAIT

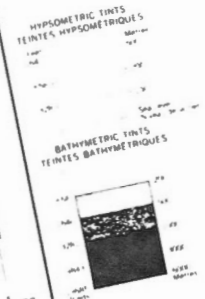
EDITION 1

NT 89 10 11 12'



LEGEND

- 135/652 Well No / IBPF Base: Hydrates interpreted
- ▲ 147/293 Well No / IBPF Base: No hydrates interpreted (or traces only)
- 72 Well for which no Petrophysical Logs



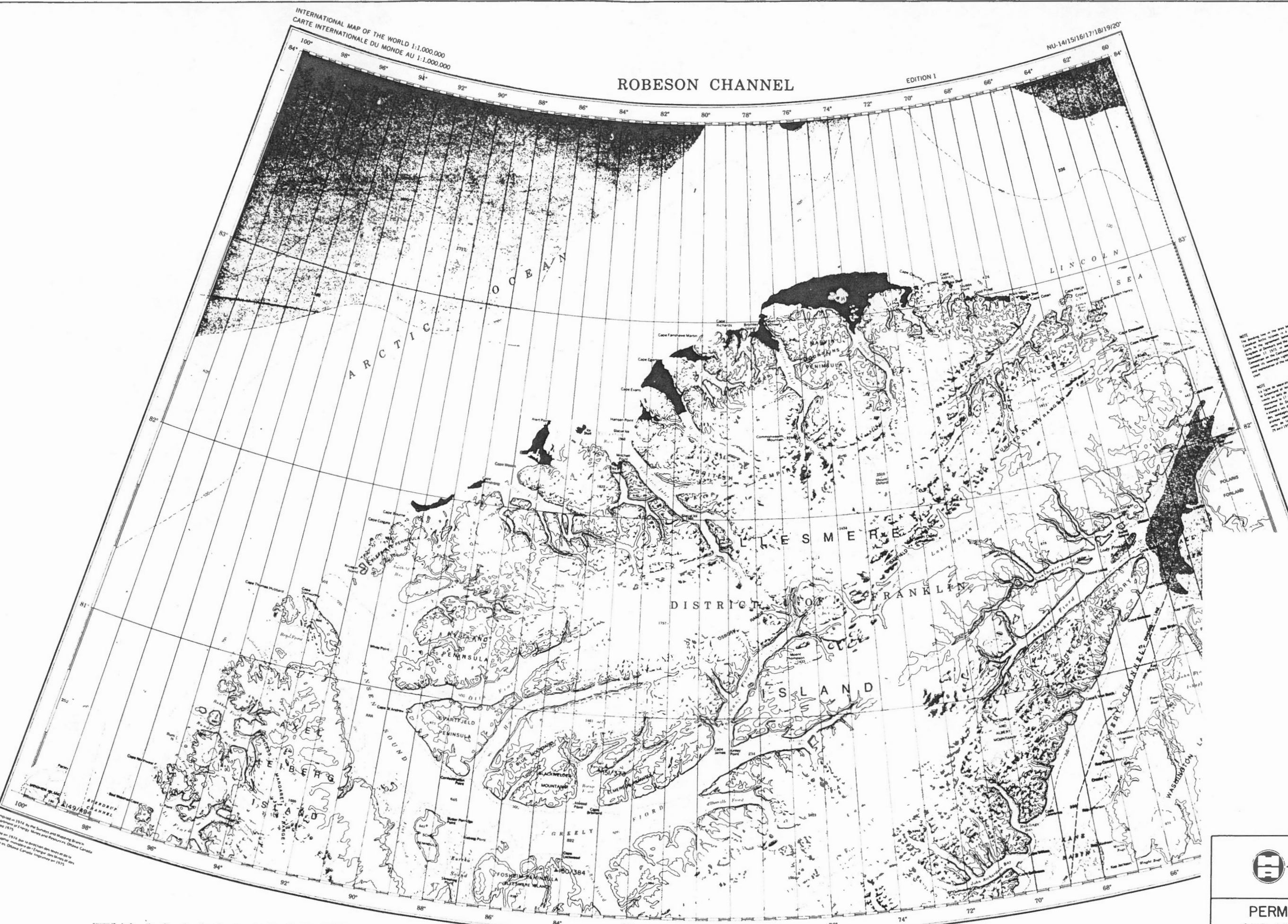
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**PERMAFROST THICKNESS
 AND HYDRATE OCCURENCE
 MAP 6**

ROBESON CHANNEL

EDITION 1

NU-14/15/16/17/18/19/20



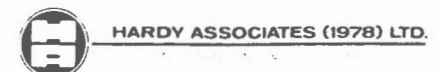
NOTE
 The shaded area on the map between Greenland and the Canadian Arctic Archipelago is a sea-ice-free area of the Arctic Ocean as determined by the Canadian Coast Guard in 1975. The shaded area is not to be confused with the shaded area on the map of the Canadian Arctic Archipelago in 1975. The shaded area is not to be confused with the shaded area on the map of the Canadian Arctic Archipelago in 1975.

NOTE
 The shaded area on the map between Greenland and the Canadian Arctic Archipelago is a sea-ice-free area of the Arctic Ocean as determined by the Canadian Coast Guard in 1975. The shaded area is not to be confused with the shaded area on the map of the Canadian Arctic Archipelago in 1975. The shaded area is not to be confused with the shaded area on the map of the Canadian Arctic Archipelago in 1975.

LEGEND

- 135/652 Well No./IBPF Base: Hydrates interpreted
- ▲147/293 Well No./IBPF Base: No hydrates interpreted (or traces only)
- 72 Well for which no Petrophysical Logs

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Polar Stereographic Projection

Projection Stéréographique Polaire

APPENDIX "C"
Petrophysical Logs for Arctic Island Wells
(Volume II)

(A)

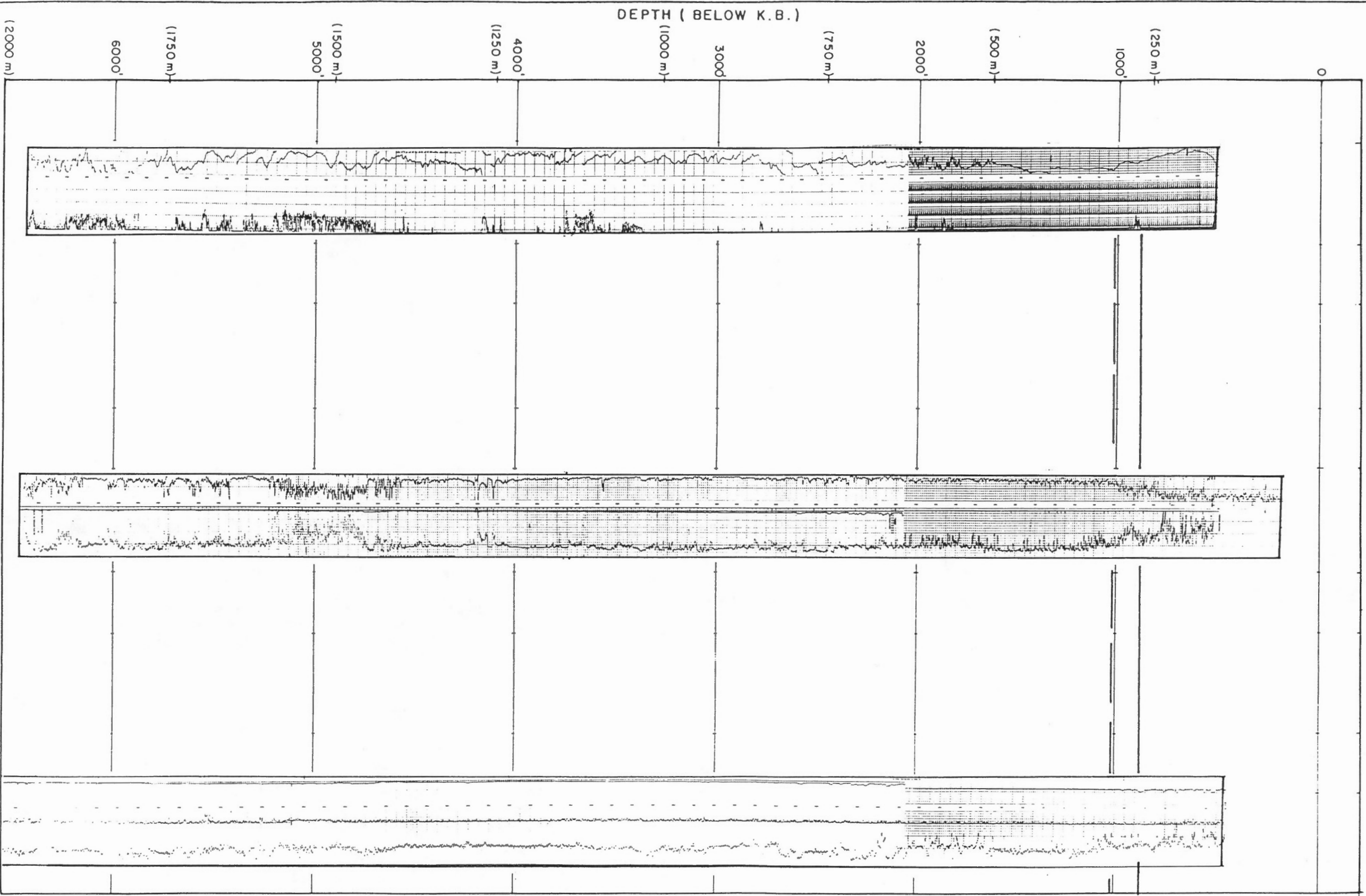
(B)

(C)

(D)

(E)

PERMAFROST /
HYDRATES



IBPF: 900'
Base Trans: 1020'

No Hydrates

DEPTH (BELOW K.B.)

(2000 m)

6000'

(1750 m)

5000'

(1500 m)

4000'

(1250 m)

3000'

(1000 m)

(750 m)

2000'

(500 m)

1000'

(250 m)

0

LOGS (LEFT TO RIGHT)

- (A) DILL
- (B) BHCS
- (C) BHCS
- (D) BHCS
- (E) F DEN



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PERMAFROST / GAS HYDRATE STUDY

ARCTIC ISLANDS

GARNIER O-21

CG10095

PLATE 1

(A)

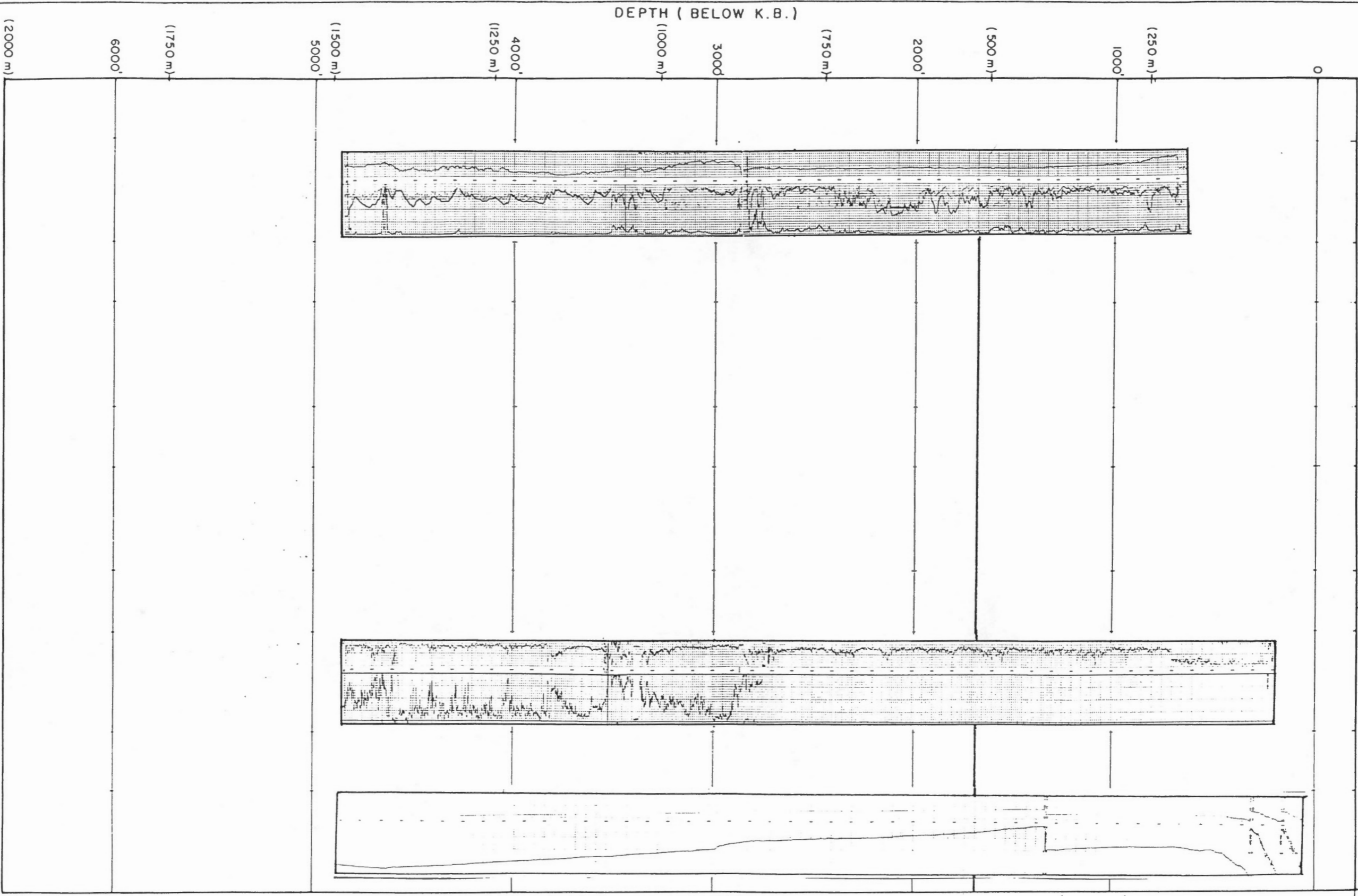
(B)

(C)

(D)

(E)

PERMAFROST /
HYDRATES



LOGS (LEFT TO RIGHT)

- (A) IES
- (B) GRN
- (C) GRN
- (D) GRN
- (E) TEMP



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PERMAFROST/GAS HYDRATE STUDY

ARCTIC ISLANDS

RESOLUTE BAY L-41

CG10095

PLATE 2

(A)

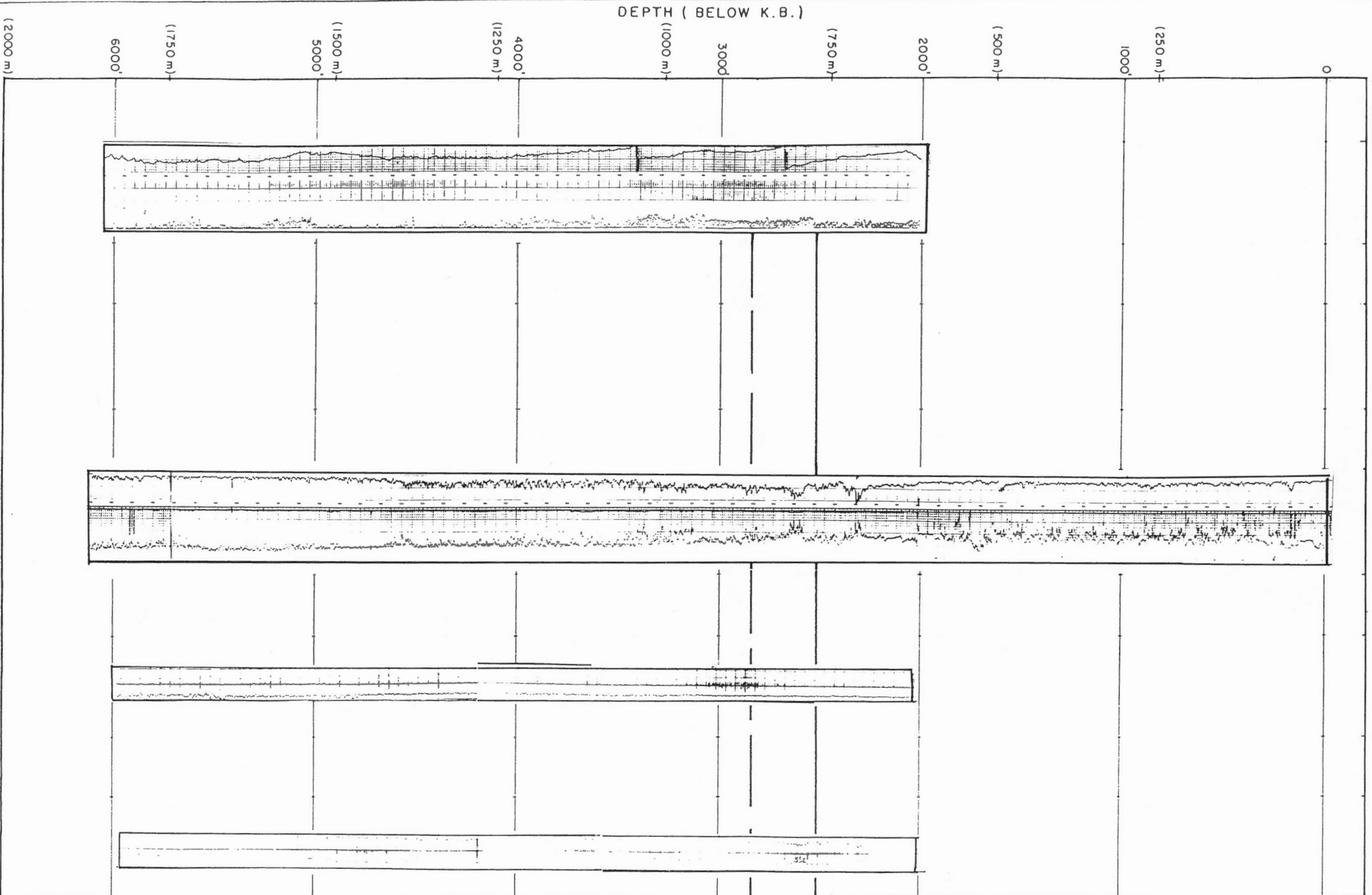
(B)

(C)

(D)

(E)

PERMAFROST
HYDRATES



LOGS (LEFT TO RIGHT)

- (A) DILL
- (B) BHCS
- (C) FDEN
- (D) SNP
- (E)



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PERMAFROST/GAS HYDRATE STUDY

ARCTIC ISLANDS
DEVON E-45

CG10095

PLATE 3

(A)

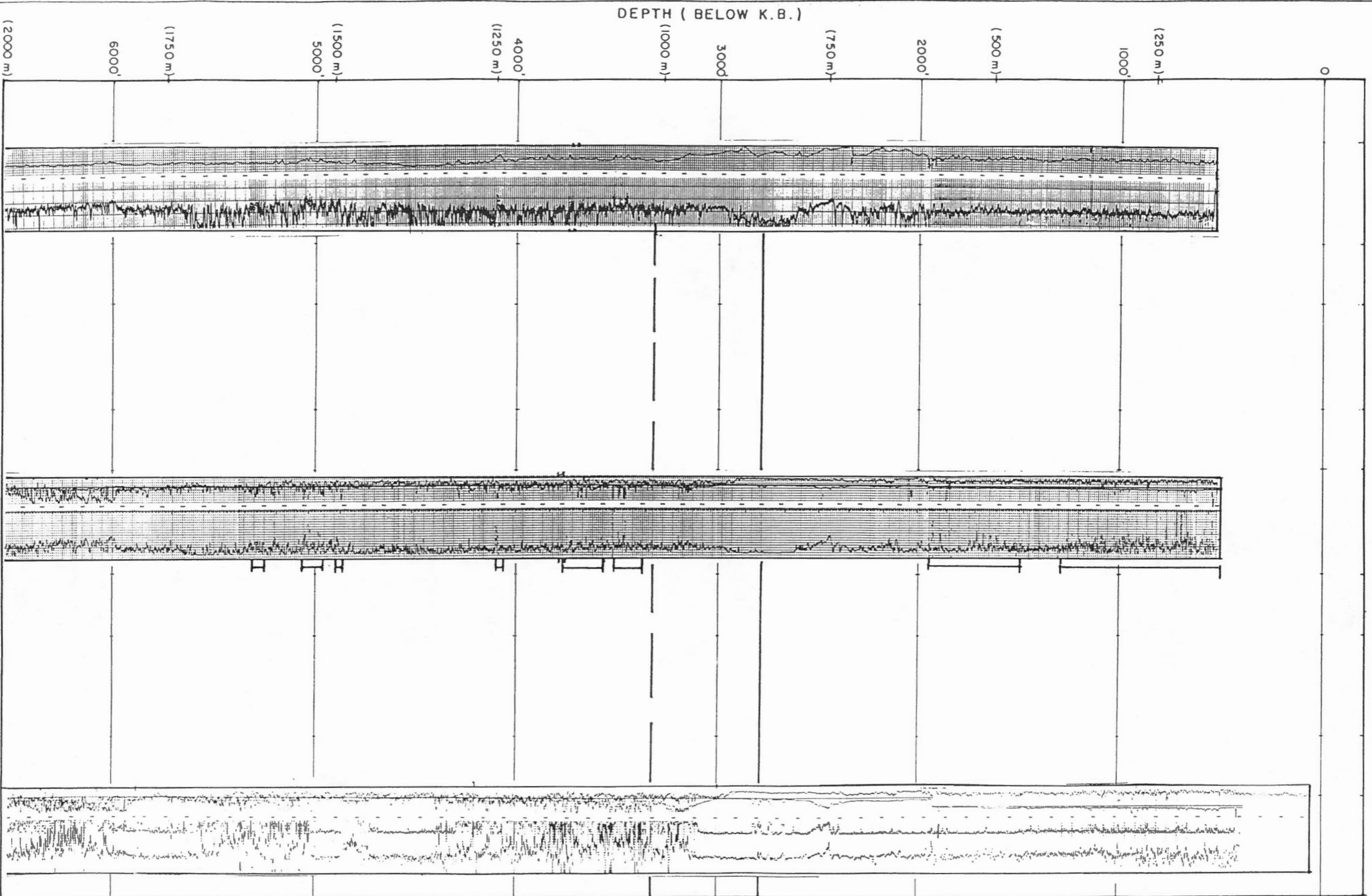
(B)

(C)

(D)

(E)

PERMAFROST /
HYDRATES



Possible Hydrates:
520' (csg) - 1950'

IBPF: 2820'

Base Trans: 3350'

Possible Hydrates:
3475' - 4140'

Possible Hydrates:
4925' - 5250'

DEPTH (BELOW K.B.)

0
 (250 m) 1000' (500 m) 2000' (750 m) 3000' (1000 m) 4000' (1250 m) 5000' (1500 m) 6000' (1750 m) (2000 m)

LOGS (LEFT TO RIGHT)

- (A) DILL
- (B) BHCS
- (C) FDEN
- (D)
- (E)



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PERMAFROST / GAS HYDRATE STUDY
ARCTIC ISLANDS
CORNWALLIS CENTRAL DOME K-40

CG10095

PLATE 4

(A)

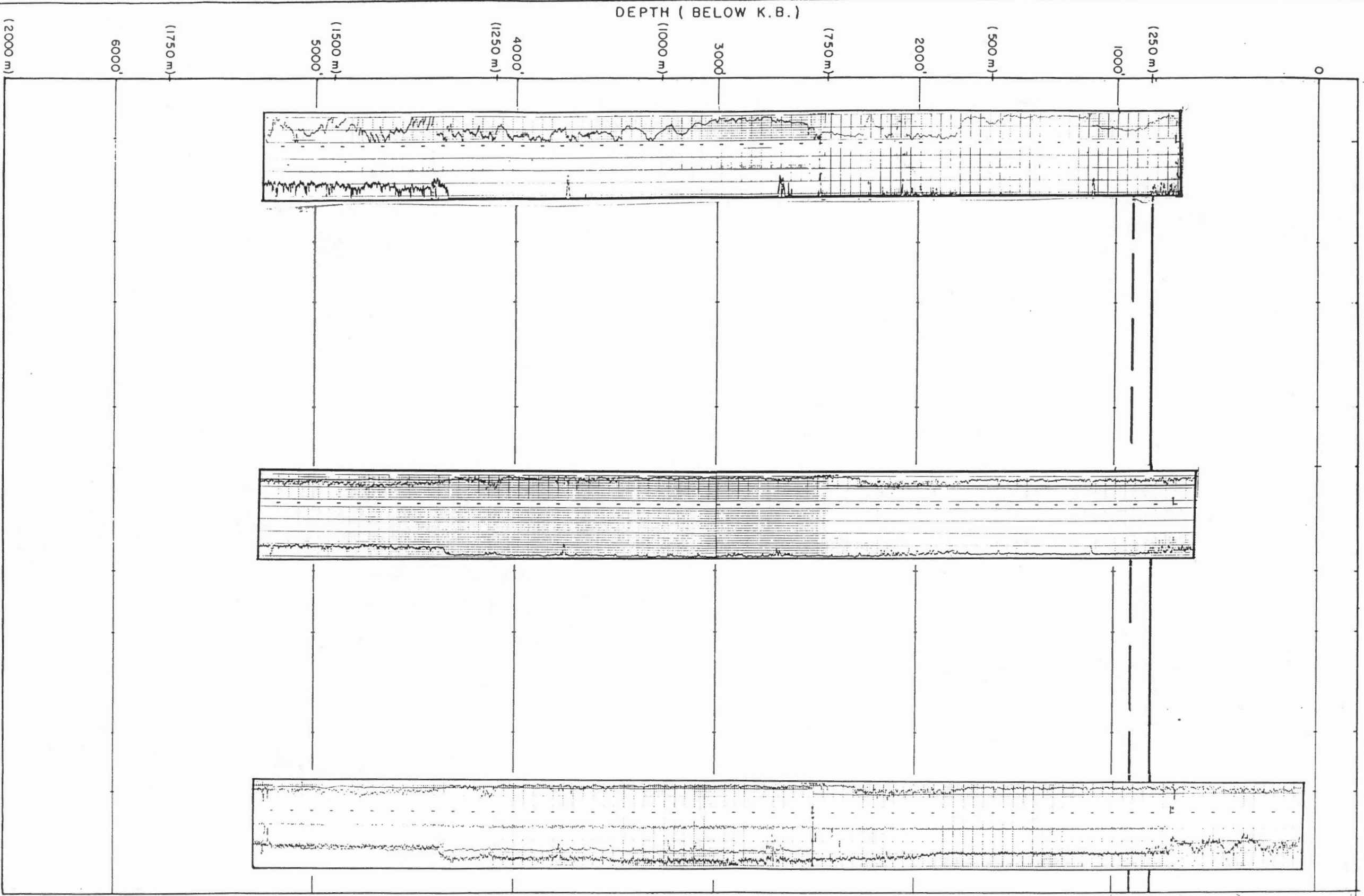
(B)

(C)

(D)

(E)

PERMAFROST /
HYDRATES



1BPF: 830'
Base Trans: 910'

No Hydrates Logged

LOGS (LEFT TO RIGHT)

- (A) DILL
- (B) BHCS
- (C) CN-FD
- (D)
- (E)



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PERMAFROST/GAS HYDRATE STUDY
ARCTIC ISLANDS
YOUNG BAY F-62

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PLATE 5

(A)

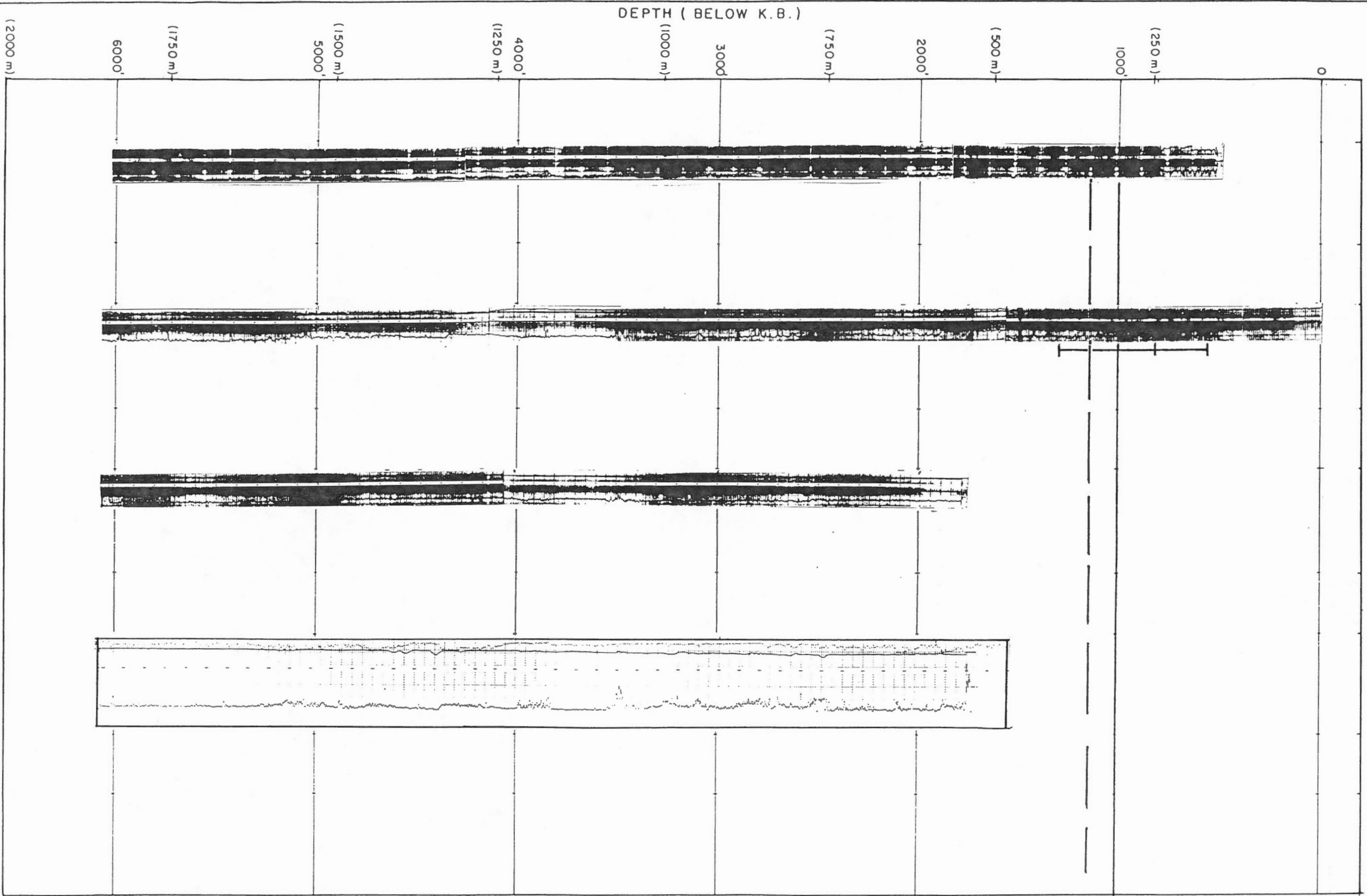
(B)

(C)

(D)

(E)

PERMAFROST /
HYDRATES



Hydrates and Poss.
hydrates:
520' - 1270'
IBPF: 1000'
Base Trans: 1145'

LOGS (LEFT TO RIGHT)

- (A) DILL
- (B) BHCS
- (C) FDEN
- (D) SNP
- (E)



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PERMAFROST/GAS HYDRATE STUDY
ARCTIC ISLANDS
RUSSELL E-82

CG10095

PLATE 6

(A)

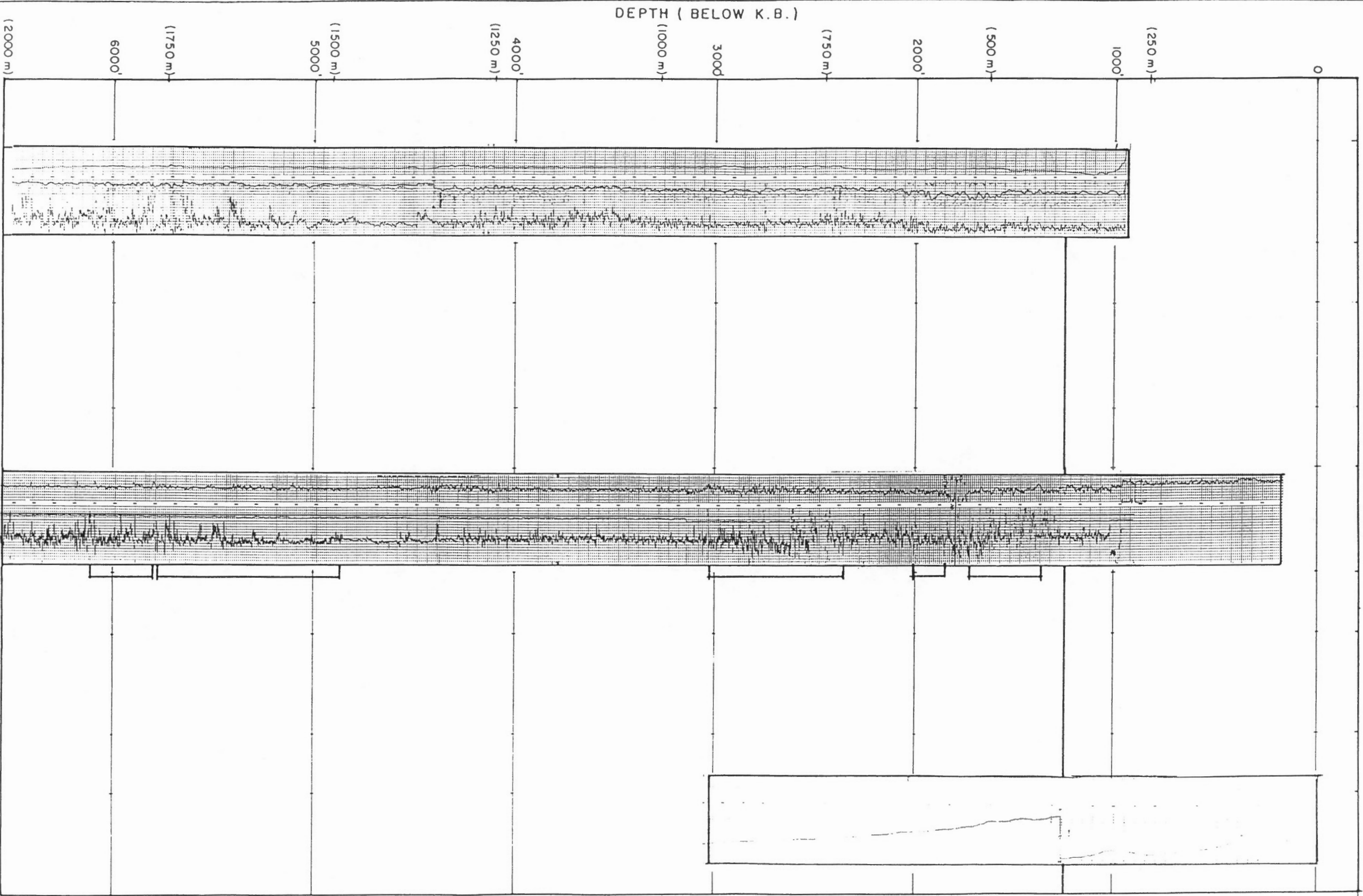
(B)

(C)

(D)

(E)

PERMAFROST
HYDRATES



LOGS (LEFT TO RIGHT)

- (A) IES
- (B) SGR - C
- (C)
- (D)
- (E) TEMP



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PERMAFROST/GAS HYDRATE STUDY
 ARCTIC ISLANDS
 WINTER HARBOUR No.1

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PLATE 7

A

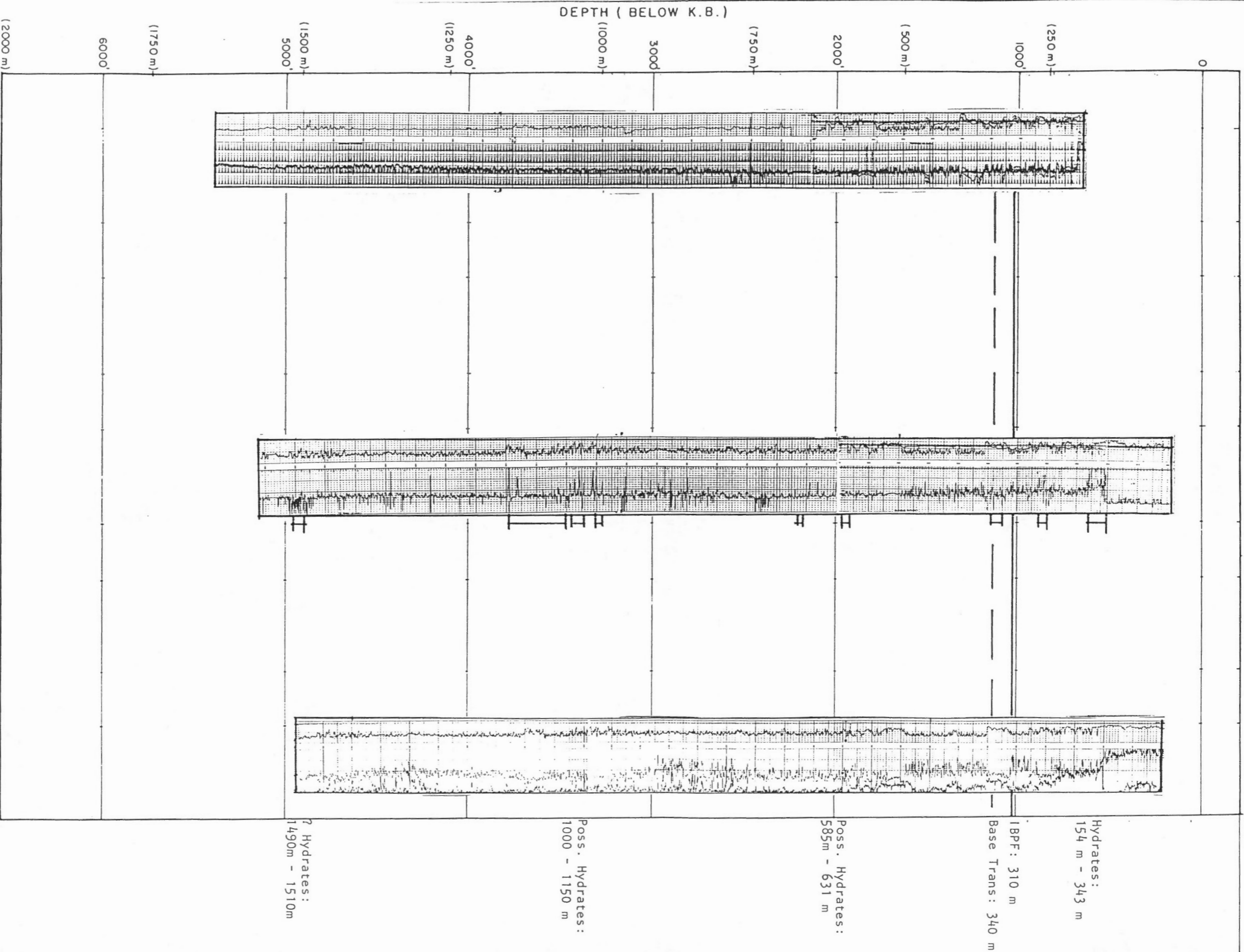
B

C

D

E

PERMAFROST
HYDRATES



LOGS (LEFT TO RIGHT)

- A DISFL
- B BHCS
- C CNFD
- D
- E



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PERMAFROST/GAS HYDRATE STUDY
ARCTIC ISLANDS
HEARNE F-85

CG10095

PLATE 8

(A)

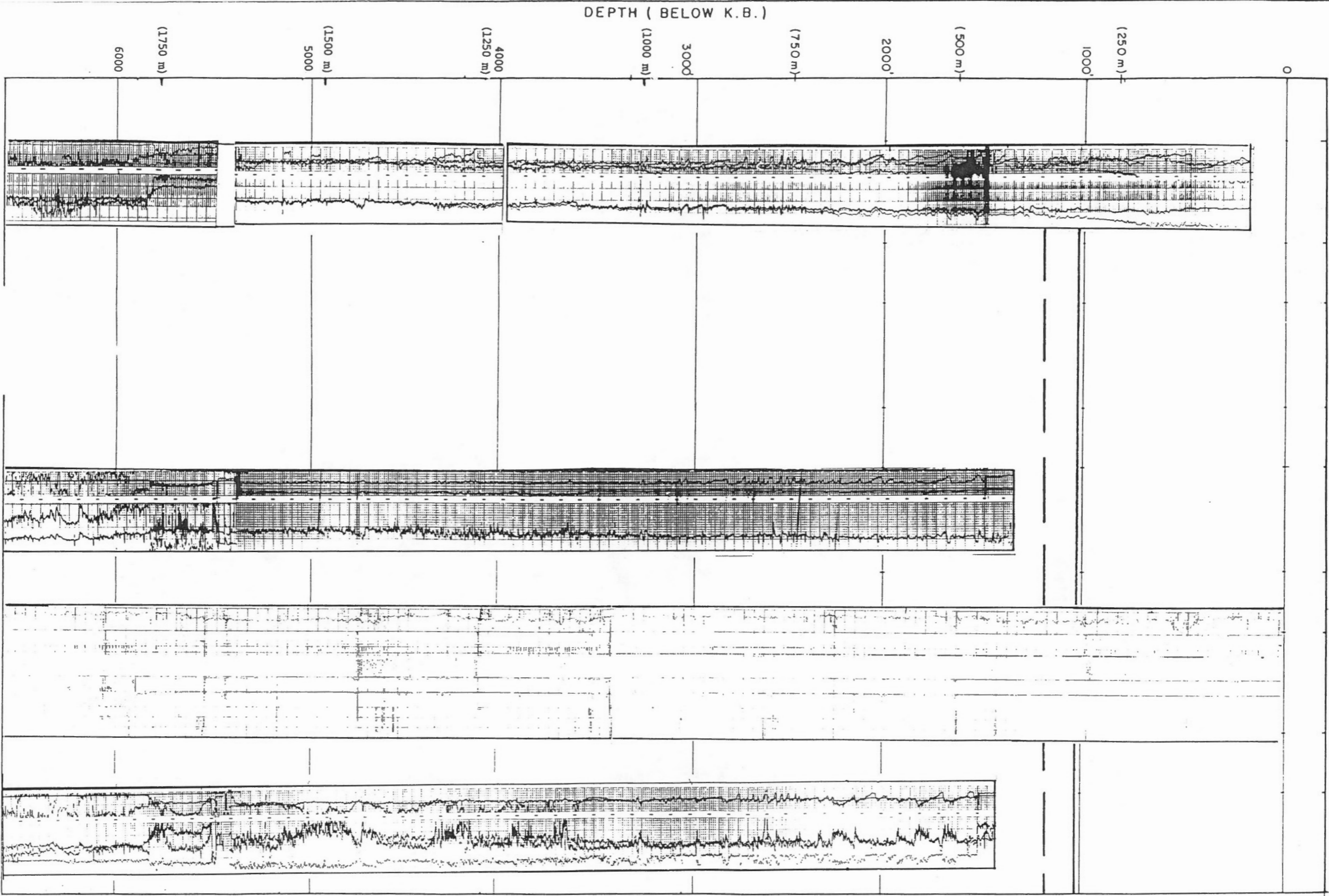
(B)

(C)

(D)

(E)

PERMAFROST /
HYDRATES



1BPF: 1010'
 Base Trans: 1170'
 No Hydrates Logged

DEPTH (BELOW K.B.)

0
 (250 m)
 1000'
 (500 m)
 2000'
 (750 m)
 3000'
 (1000 m)
 4000'
 (1250 m)
 5000'
 (1500 m)
 6000'
 (1750 m)

LOGS (LEFT TO RIGHT)

- (A) DLL/DILL
- (B) BHCS
- (C) MUD
- (D) CNFD
- (E)



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PERMAFROST / GAS HYDRATE STUDY
 ARCTIC ISLANDS
 BEVERLEY G-13

CG10095

PLATE 9

A

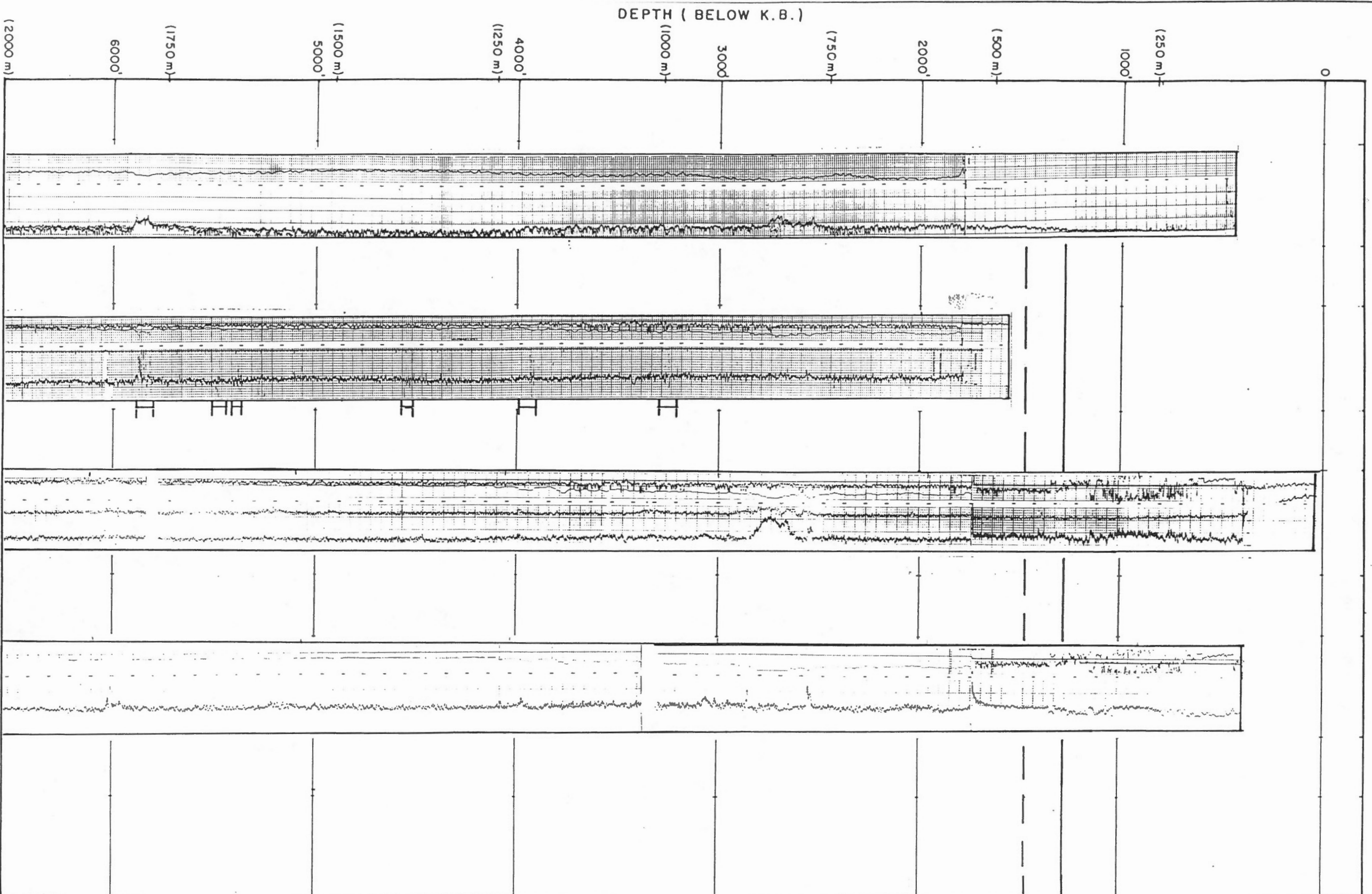
B

C

D

E

PERMAFROST /
HYDRATES



1BPF: 1300'
Base Trans: 1490'

Possible Hydrate
Traces:
3180' - 5500'

? Hydrate:
5850' - 5930'

LOGS (LEFT TO RIGHT)

- (A) DILL
- (B) BHCS
- (C) FDEN
- (D) SNP
- (E)



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PERMAFROST/GAS HYDRATE STUDY
ARCTIC ISLANDS
ALLISON RIVER N-12

CG10095

PLATE 10

(A)

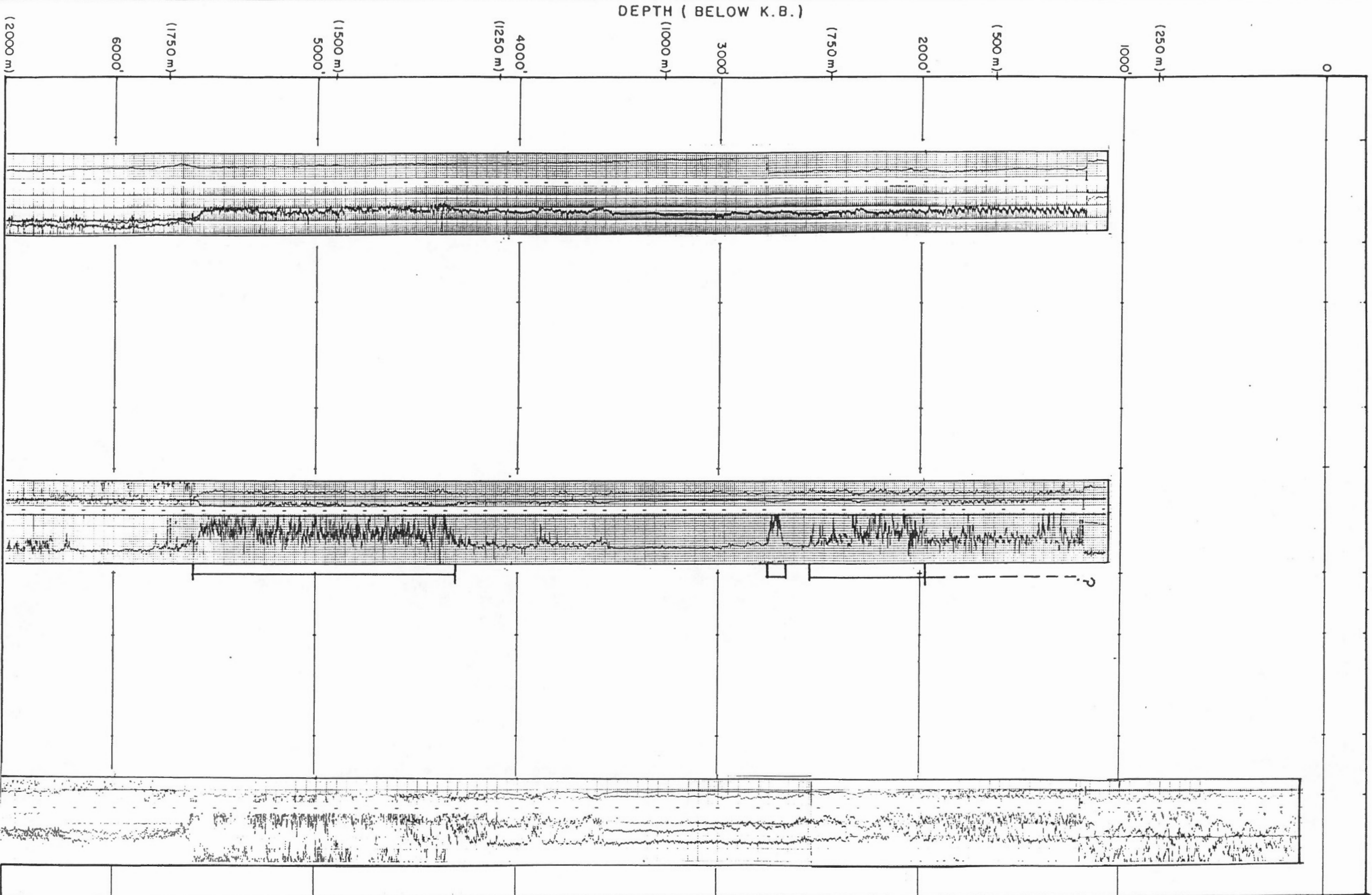
(B)

(C)

(D)

(E)

PERMAFROST
HYDRATES



IBPF: above log
base: < 1201'

? Hydrates:
< 1201' - 2000'

Hydrates:
2000' - 2360'

? Hydrates
2360' - 2570'

Hydrates:
2710' - 2790'

? Hydrates:
4350' - 5625'

LOGS (LEFT TO RIGHT)

- (A) DILL
- (B) BHCS
- (C) CNFD
- (D)
- (E)



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PERMAFROST/GAS HYDRATE STUDY
ARCTIC ISLANDS
SABINE BAY A-07

CG10095

PLATE 11

(A)

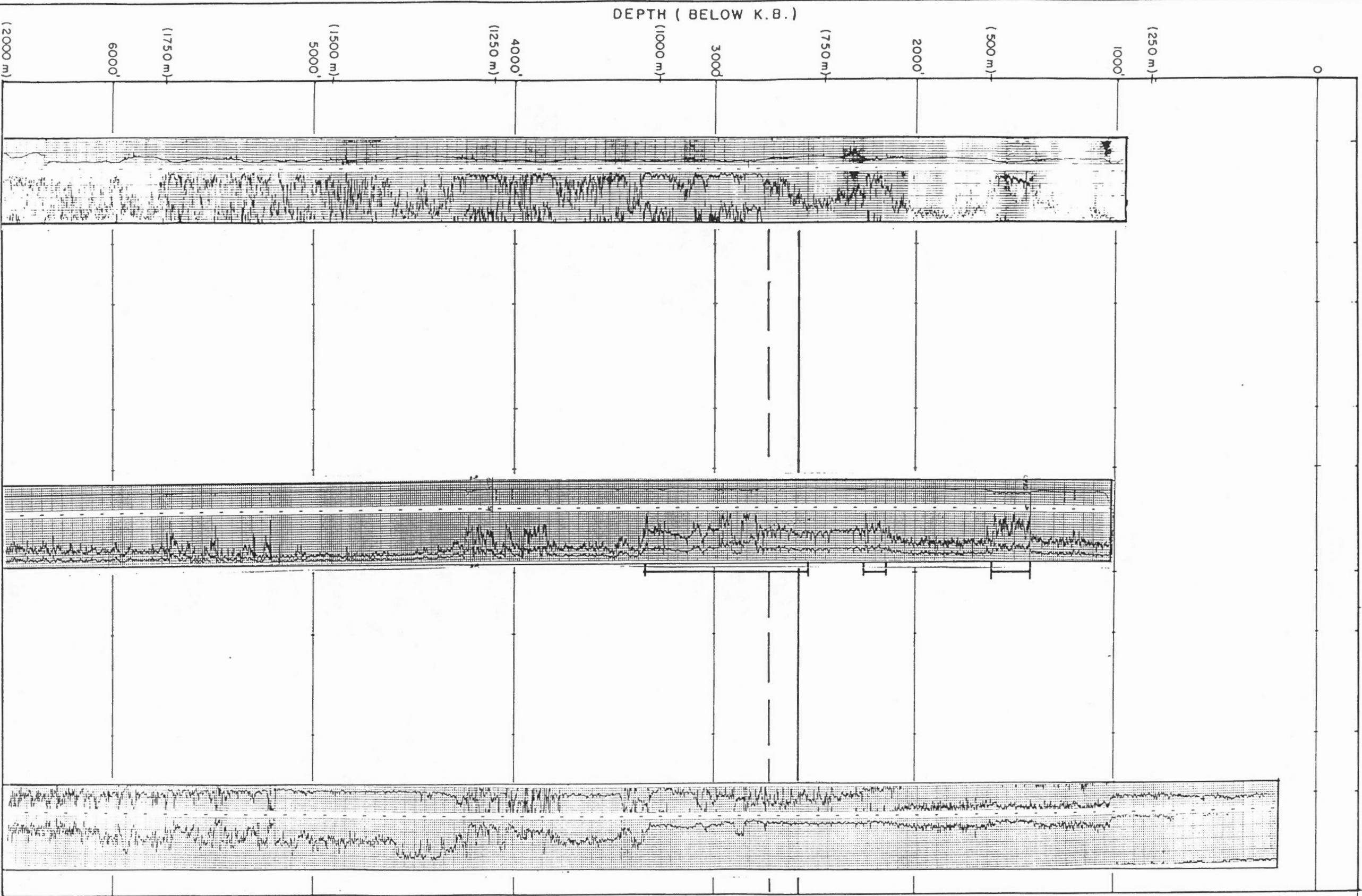
(B)

(C)

(D)

(E)

PERMAFROST
HYDRATES



? Hydrates:
1420' - 1610'

? Hydrates:
2170' - 2250'
2650' - 2790'

1BPF: 2650'

Base Trans: 2775'

Possible Hydrates:
2790' - 3375'

DEPTH (BELOW K.B.)

1000'

(250 m)

(500 m)

2000'

(750 m)

3000'

(1000 m)

4000'

(1250 m)

5000'

(1500 m)

6000'

(1750 m)

(2000 m)

LOGS (LEFT TO RIGHT)

(A) LL

(B) SGR-C

(C) SGR-C

(D) GRN

(E) GRN



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PERMAFROST/GAS HYDRATE STUDY
ARCTIC ISLANDS
CALEDONIAN RIVER J-34

CG10095

PLATE 12

(A)

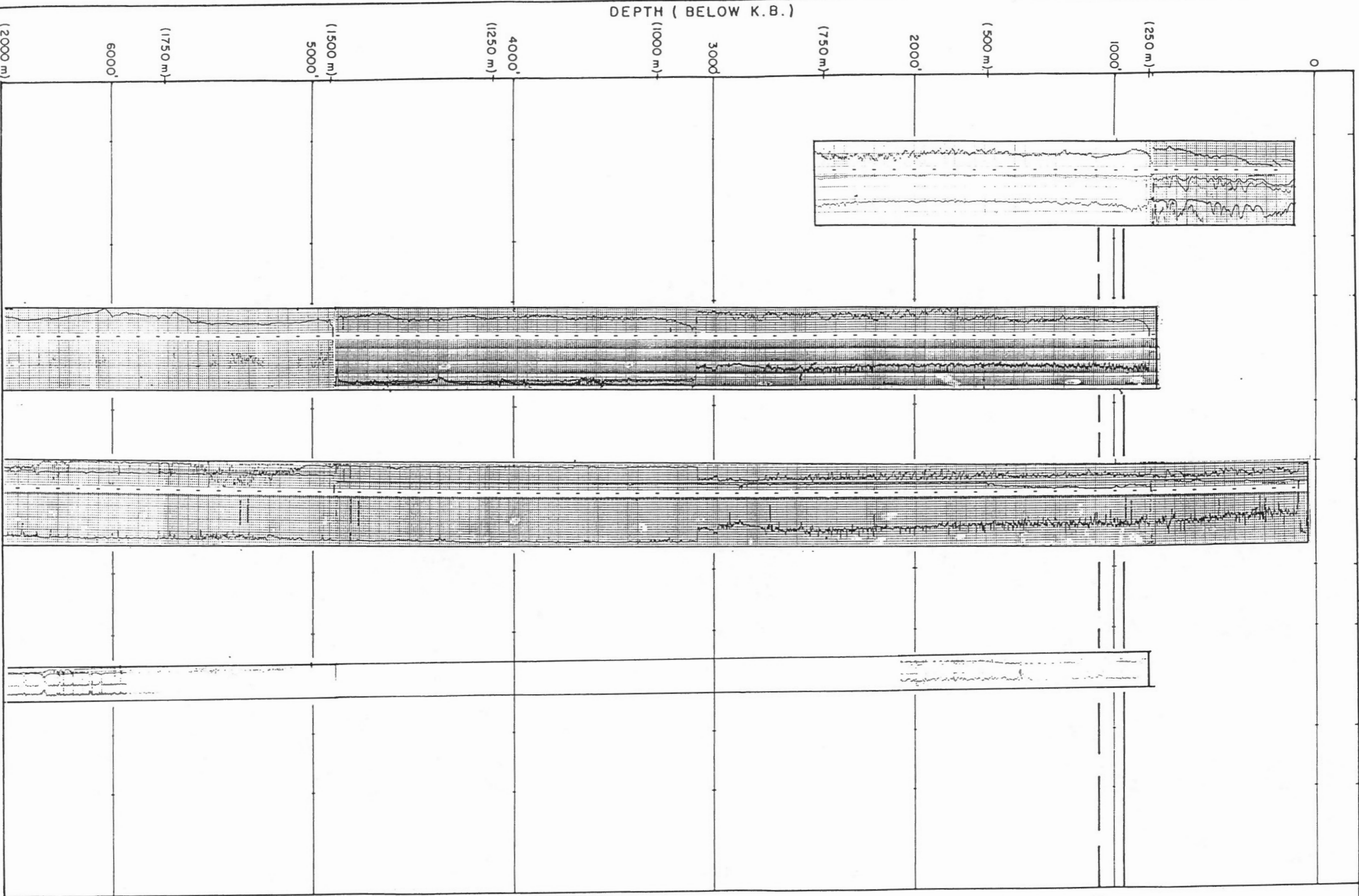
(B)

(C)

(D)

(E)

PERMAFROST /
HYDRATES



1BPF: 970'
Base Trans: 1100'

No Hydrates Logged

DEPTH (BELOW K.B.)

0
 (250 m)
 1000'
 (500 m)
 2000'
 (750 m)
 3000'
 (1000 m)
 4000'
 (1250 m)
 5000'
 (1500 m)
 6000'
 (1750 m)
 (2000 m)

LOGS (LEFT TO RIGHT)

- (A) EL
- (B) DILL
- (C) BHCS
- (D) CNFD
- (E)



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PERMAFROST/GAS HYDRATE STUDY

ARCTIC ISLANDS
KING POINT WEST B-53

CG10095

PLATE 13

(A)

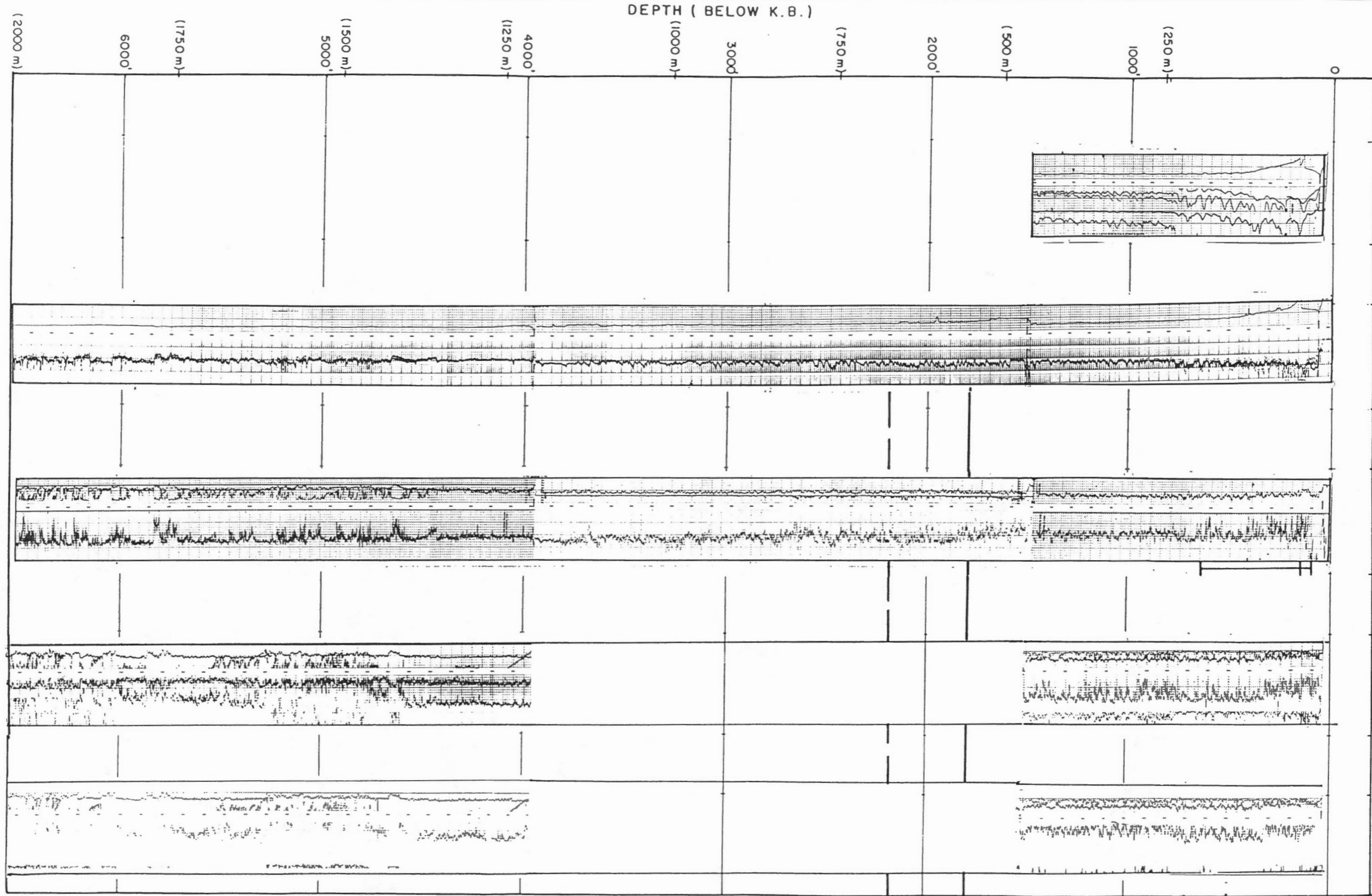
(B)

(C)

(D)

(E)

PERMAFROST
HYDRATES



? Hydrates:
110' - 670'

1BPF: 1801'

Base Trans: 2201'

LOGS (LEFT TO RIGHT)

- (A) EL
- (B) DILL
- (C) BHCS
- (D) FDEN
- (E) SNP



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PERMAFROST/GAS HYDRATE STUDY

ARCTIC ISLANDS

APOLLO C-73

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PLATE 1A

(A)

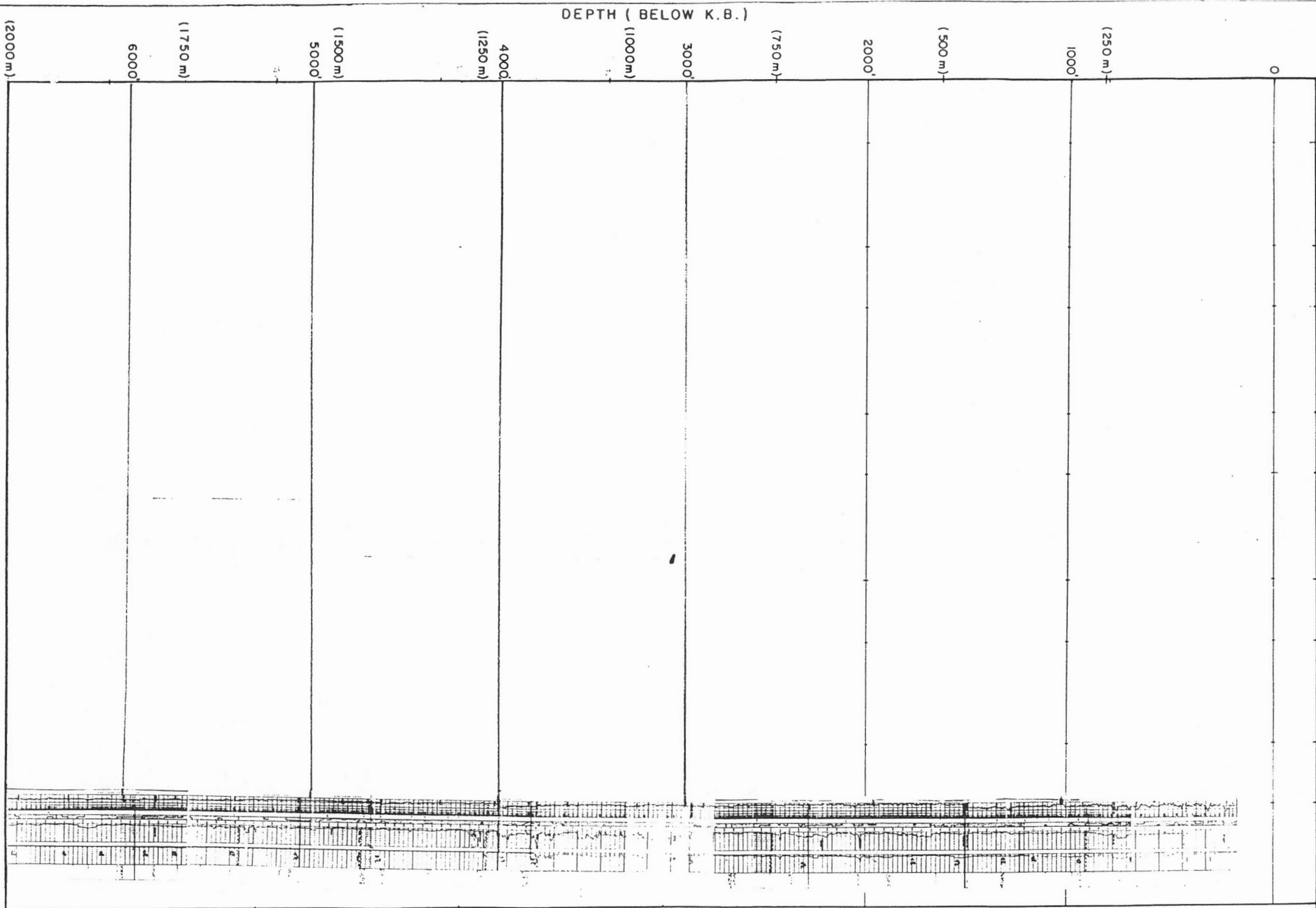
(B)

(C)

(D)

(E)

PERMAFROST
HYDRATES



LOGS (LEFT TO RIGHT)

- (A)
- (B)
- (C)
- (D)
- (E) MUD



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PERMAFROST / GAS HYDRATE STUDY
 ARCTIC ISLANDS
 APOLLO C-73

CG10095

PLATE 14A

(A)

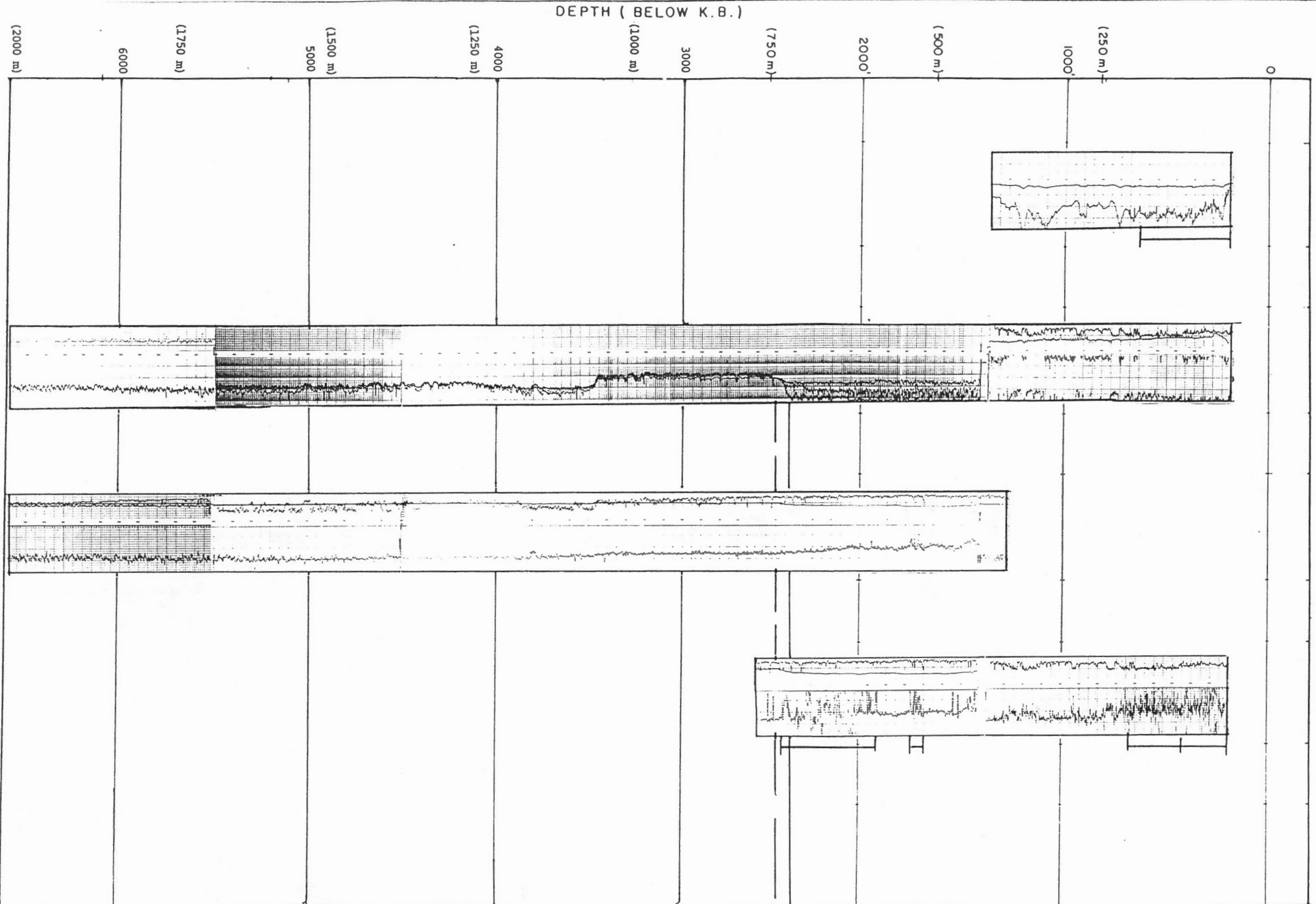
(B)

(C)

(D)

(E)

PERMAFROST /
HYDRATES



Hydrate:
90' - 370'
Poss. Hydrates:
370' - 630'

Poss. Hydrate:
1710' - 1775'

Hydrate:
1950' - 2465'
IBPF: 2450'
Base Trans: 2520'

DEPTH (BELOW K.B.)

0
1000 (250 m)
2000 (500 m)
3000 (1000 m)
4000 (1250 m)
5000 (1500 m)
6000 (1750 m)
2000 (2000 m)

LOGS (LEFT TO RIGHT)

- (A) EL
- (B) DILL
- (C) BHCS
- (D) LSS
- (E)



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PERMAFROST/GAS HYDRATE STUDY
ARCTIC ISLANDS
RICHARDSON PT. G-12

CG110095

PLATE 15

A

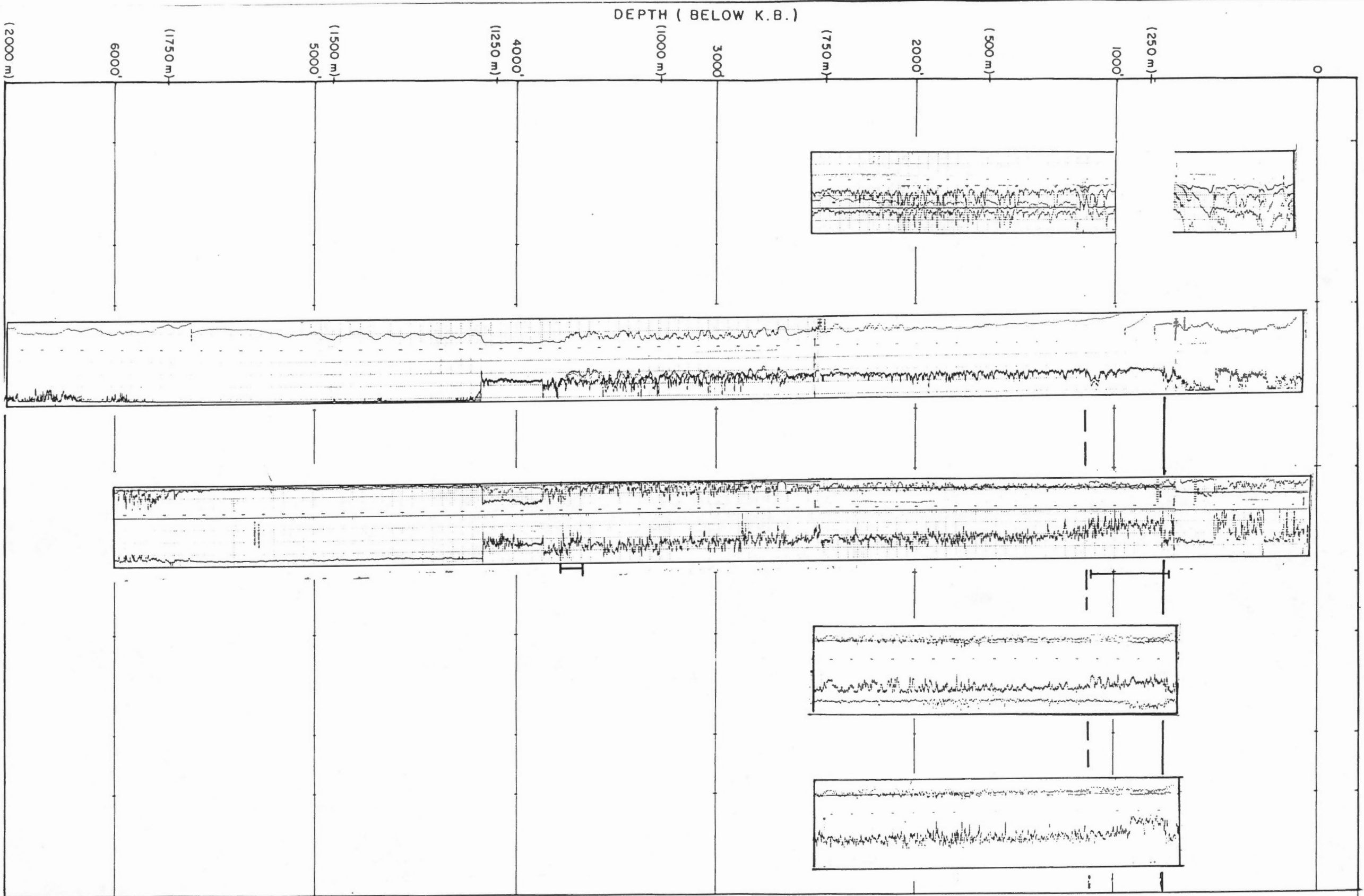
B

C

D

E

PERMAFROST
HYDRATES



1BPF: 770'

Possible Hydrates:
725' - 1130'
Base Trans: 1155'

? Hydrates:
3700' - 3775'

DEPTH (BELOW K.B.)

0

(250 m)

(500 m)

2000'

(750 m)

3000'

(1000 m)

(1250 m)

4000'

(1500 m)

5000'

(1750 m)

6000'

(2000 m)

LOGS (LEFT TO RIGHT)

- (A) EL (LONG)
- (B) DILL
- (C) BHCS
- (D) CN-FD
- (E) SNP



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PERMAFROST/GAS HYDRATE STUDY
ARCTIC ISLANDS
WEATHERALL O-10

CG10095

PLATE 16

(A)

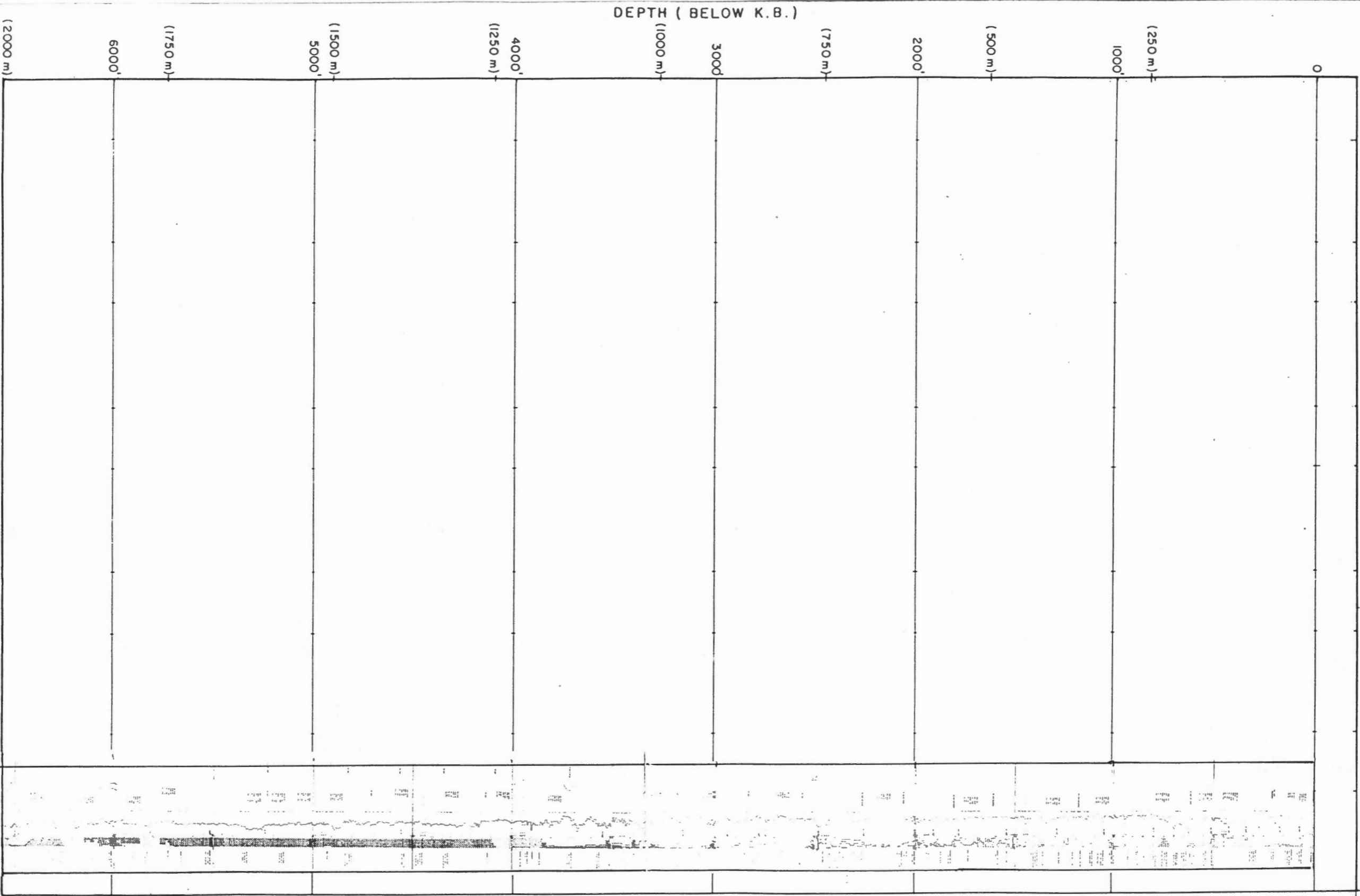
(B)

(C)

(D)

(E)

PERMAFROST
HYDRATES



LOGS (LEFT TO RIGHT)

(A)
(B)
(C)
(D)
(E) MUD



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PERMAFROST / GAS HYDRATE STUDY

ARCTIC ISLANDS

WEATHERALL 0-10

CG10095

PLATE 16A

(A)

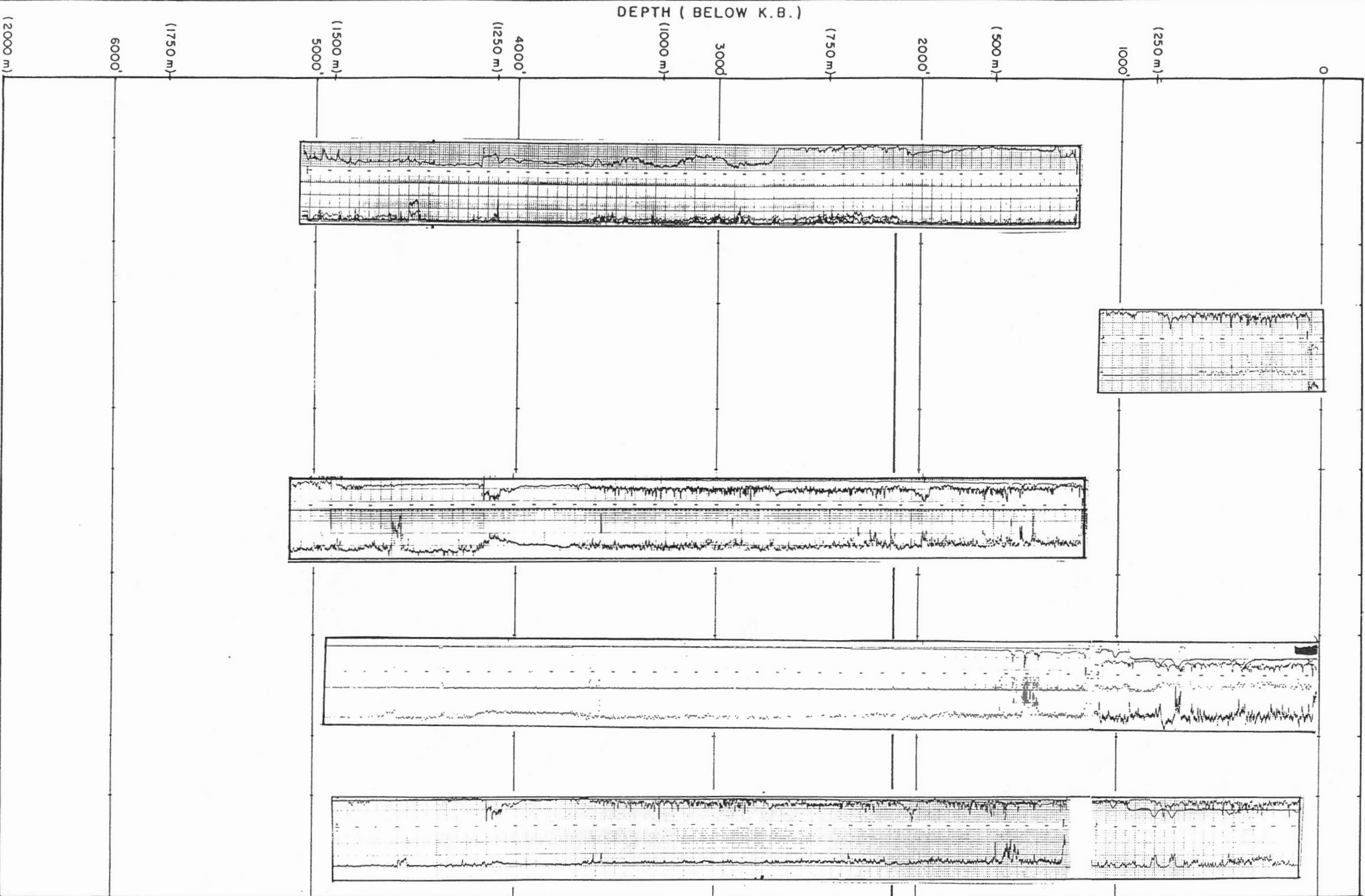
(B)

(C)

(D)

(E)

PERMAFROST /
HYDRATES



DEPTH (BELOW K.B.)

0
 (250 m)
 1000'
 (500 m)
 2000'
 (750 m)
 3000'
 (1000 m)
 4000'
 (1250 m)
 5000'
 (1500 m)
 6000'
 (1750 m)
 (2000 m)

IBPF: 2120'

No Hydrates Logged

LOGS (LEFT TO RIGHT)

- (A) I - GR
- (B) DILL
- (C) BHCS
- (D) FDEN
- (E) SNP



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PERMAFROST/GAS HYDRATE STUDY
 ARCTIC ISLANDS
 TOWSON POINT F-63

CG10095

PLATE 17

(A)

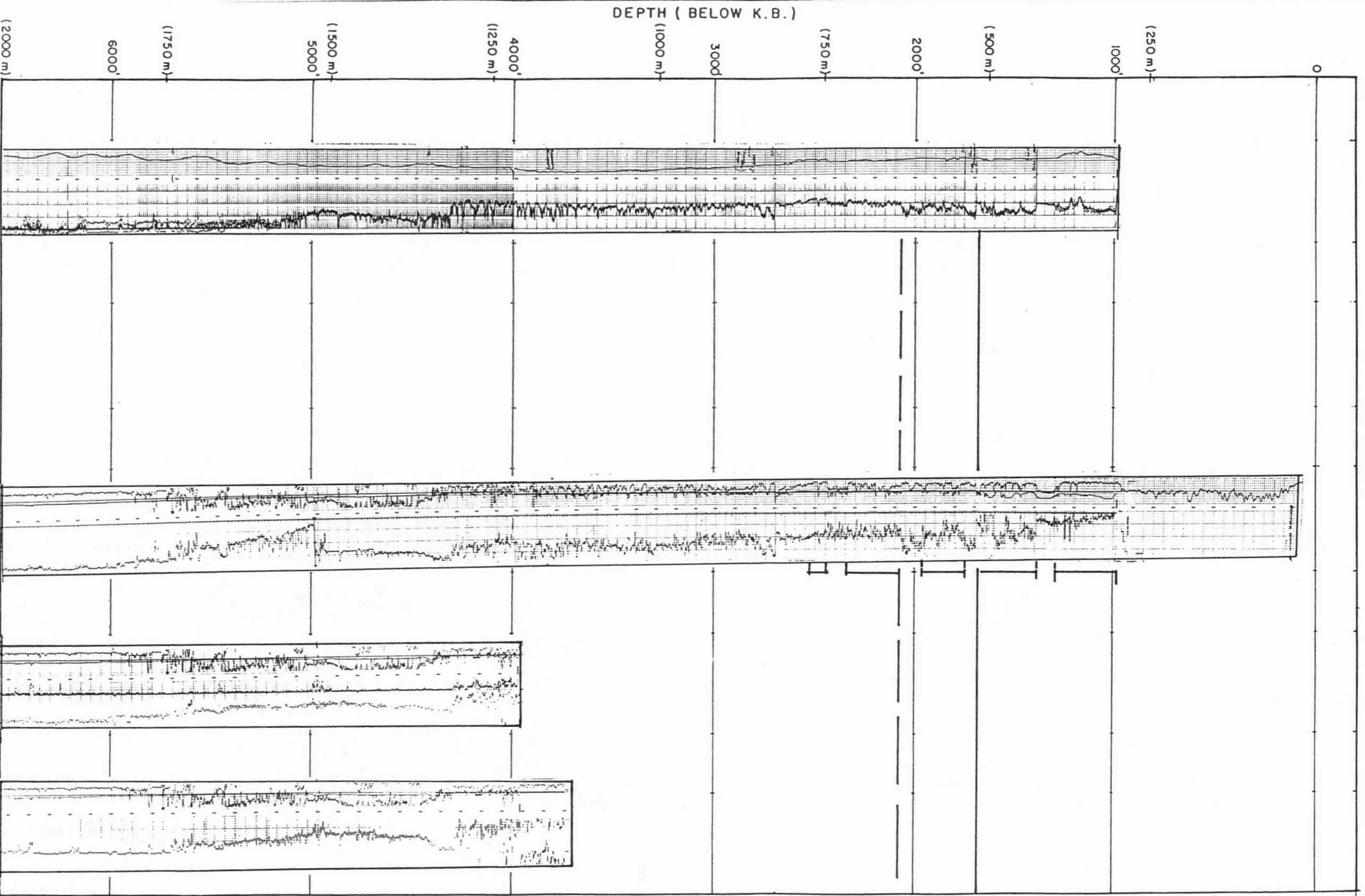
(B)

(C)

(D)

(E)

PERMAFROST /
HYDRATES



IBPF: 1670'
 Hydrates:
 984' - 1300'
 1390' - 1670'
 Base Trans: 2070'

Possible Hydrates:
 1750' - 2520'

DEPTH (BELOW K.B.)

0
 (250 m) 1000'
 (500 m) 2000'
 (750 m) 3000'
 (1000 m) 4000'
 (1250 m) 5000'
 (1500 m) 6000'
 (1750 m) (2000 m)

LOGS (LEFT TO RIGHT)

(A) DILL

(B) BHCS

(C) FDEN

(D) ...



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PERMAFROST/GAS HYDRATE STUDY

ARCTIC ISLANDS

ELDRIDGE BAY E-79

(A)

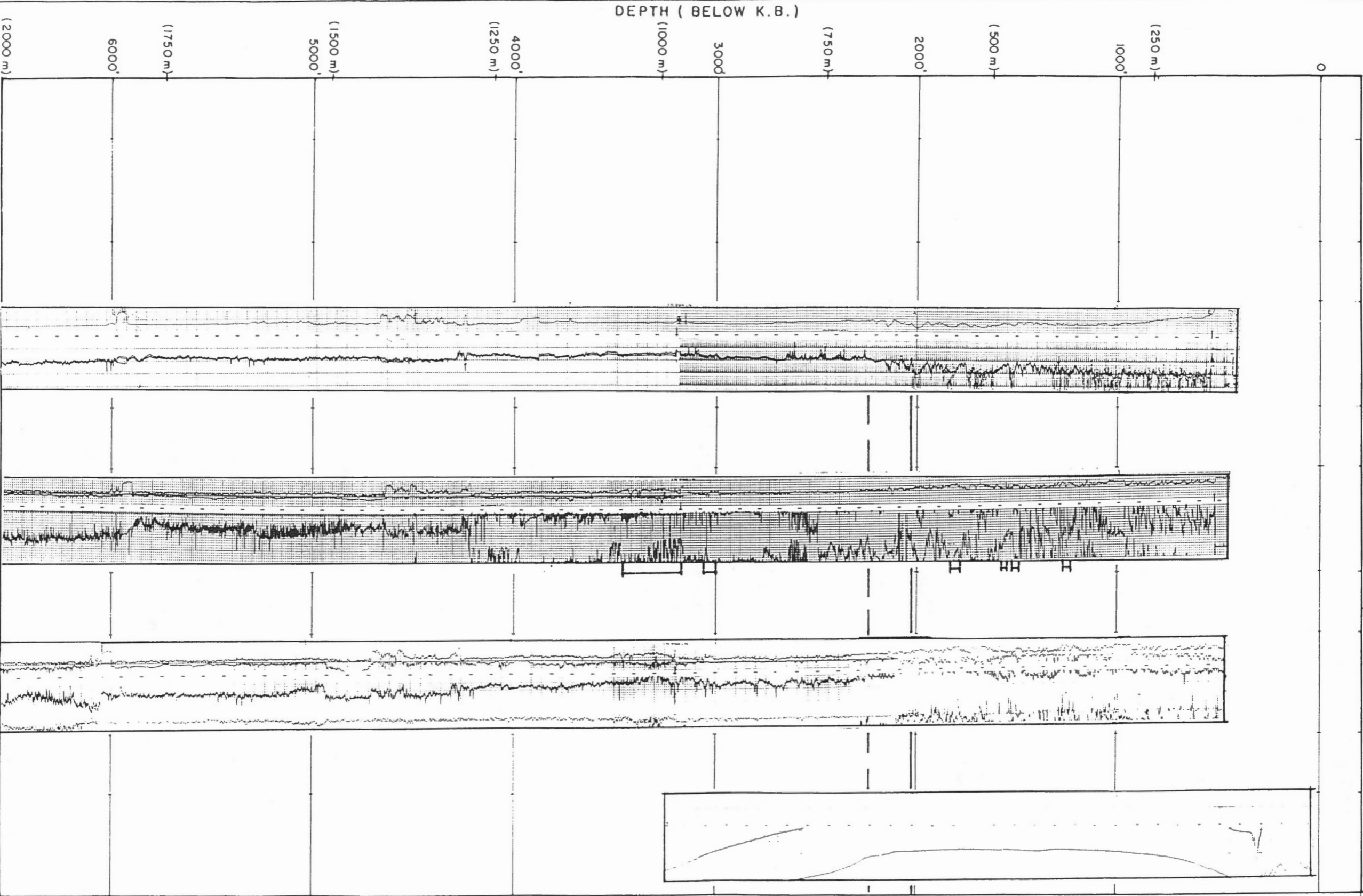
(B)

(C)

(D)

(E)

PERMAFROST /
HYDRATES



Possible Hydrates:
1160' - 1570'

Possible Hydrates:
1810' - 1830'

Possible Hydrates:
3005' - 3500'

Base Trans: 2230'

1BPF: 2020'

DEPTH (BELOW K.B.)

(250 m)

1000'

(500 m)

2000'

(750 m)

3000'

(1000 m)

4000'

(1250 m)

(1500 m)

5000'

(1750 m)

6000'

(2000 m)

LOGS (LEFT TO RIGHT)

(A) DILL

(B) BHCS

(C) FDEN

(D) TEMP

(E)



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PERMAFROST/GAS HYDRATE STUDY

ARCTIC ISLANDS

ORKSUT 1-44

CG10095

PLATE 20

(A)

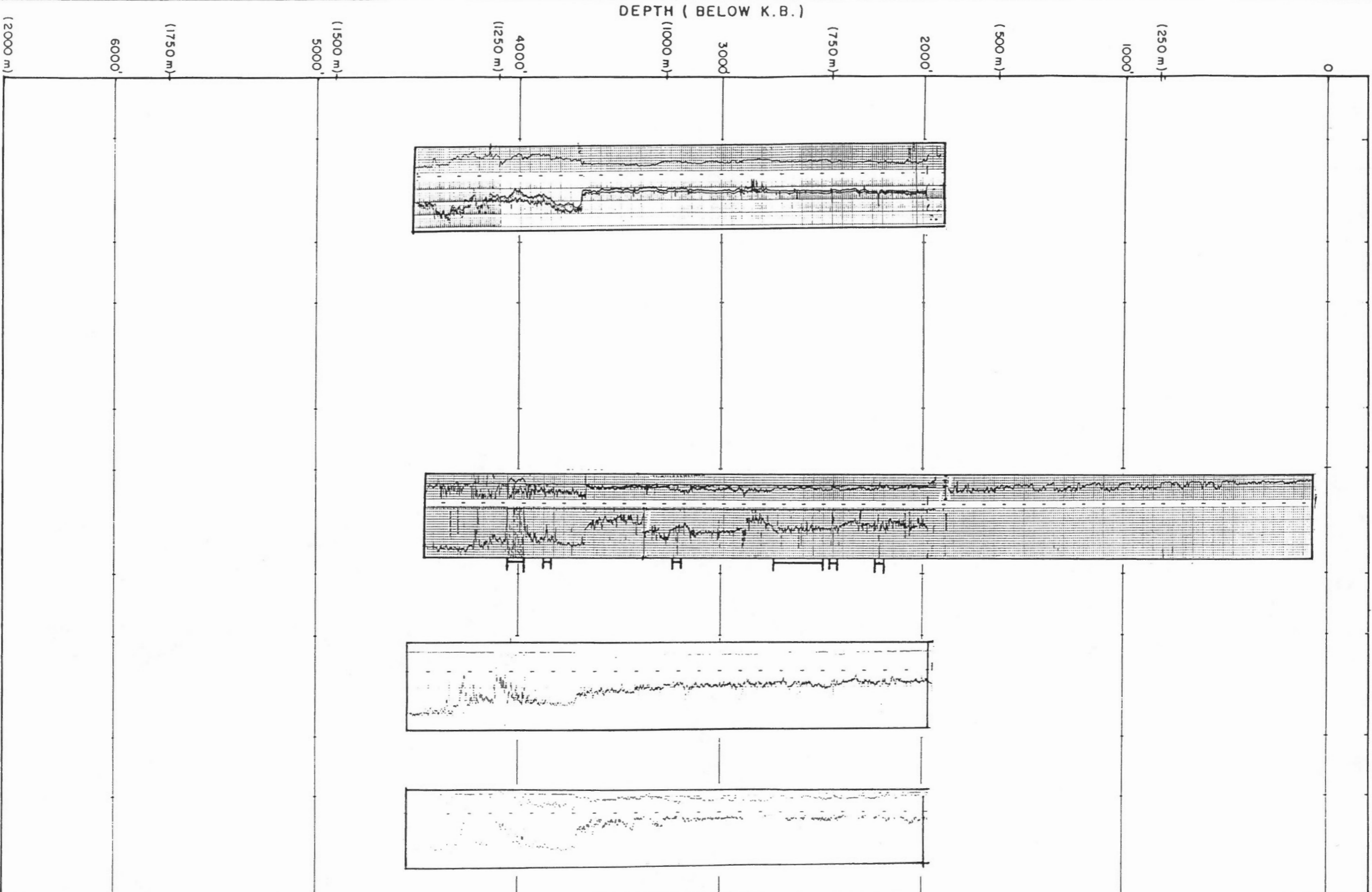
(B)

(C)

(D)

(E)

PERMAFROST /
HYDRATES



IBPF: < 1978'

? Hydrates:
2215' - 2750'

Possible Hydrates:
3230' - 3240'

? Hydrates:
3880' - 4080'

(20000 m)

6000'

(1750 m)

5000'

(1500 m)

4000'

(1250 m)

3000'

(1000 m)

2000'

(750 m)

(500 m)

1000'

(250 m)

0

LOGS (LEFT TO RIGHT)

- (A) DILL
- (B) BHCS
- (C) FDEN
- (D) SNP
- (E)



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PERMAFROST/GAS HYDRATE STUDY
ARCTIC ISLANDS
NANUK D-76

CG10095

PLATE 21

(A)

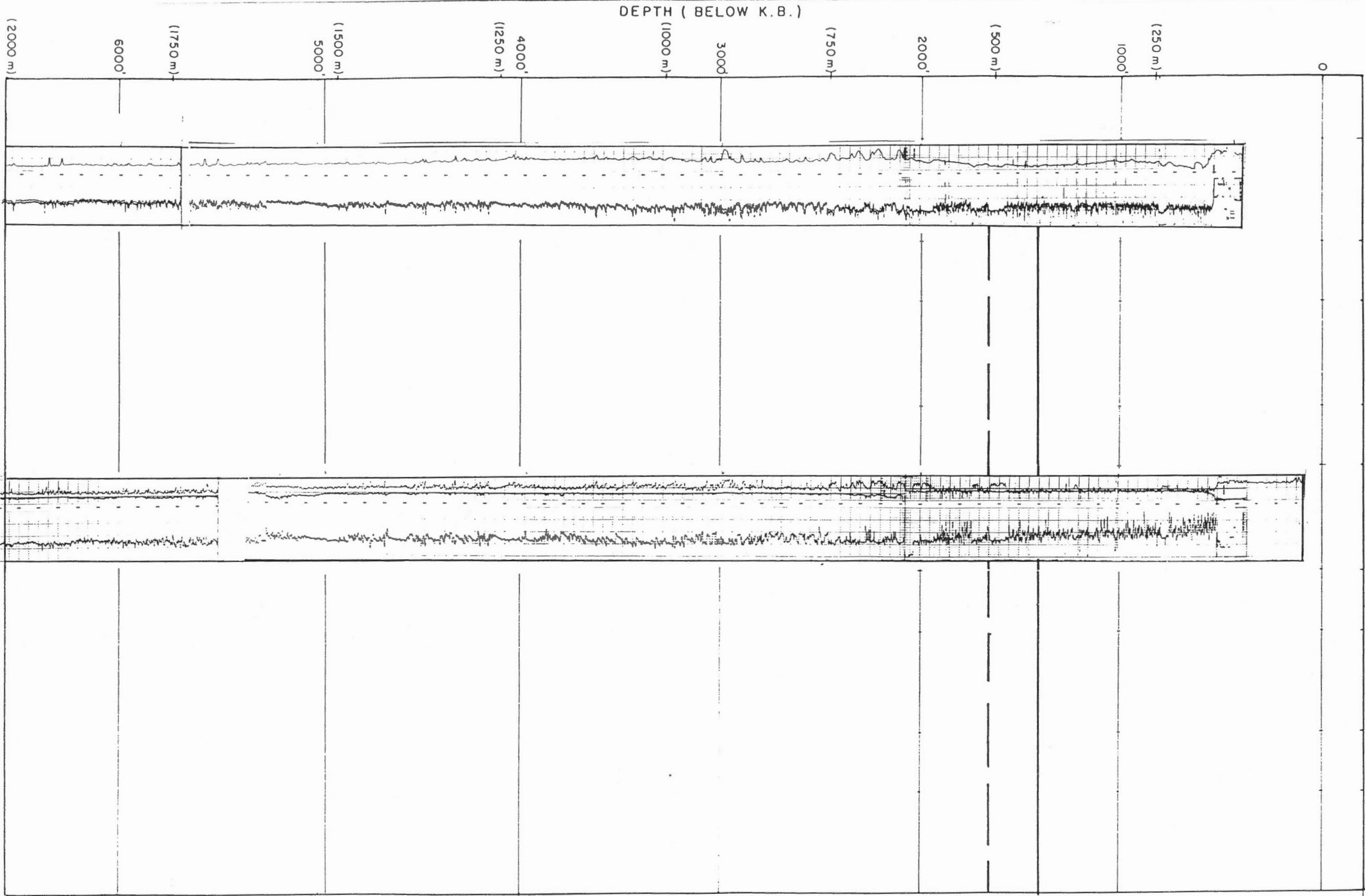
(B)

(C)

(D)

(E)

PERMAFROST /
HYDRATES



1BPF: 1425'
 Base Trans: 1650'
 No Hydrates Logged

LOGS (LEFT TO RIGHT)

- (A) BILL
- (B) BHCS
- (C)
- (D)
- (E)



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PERMAFROST / GAS HYDRATE STUDY
 ARCTIC ISLANDS
 KUSRHAAK D-16

CG10095

PLATE 22

(A)

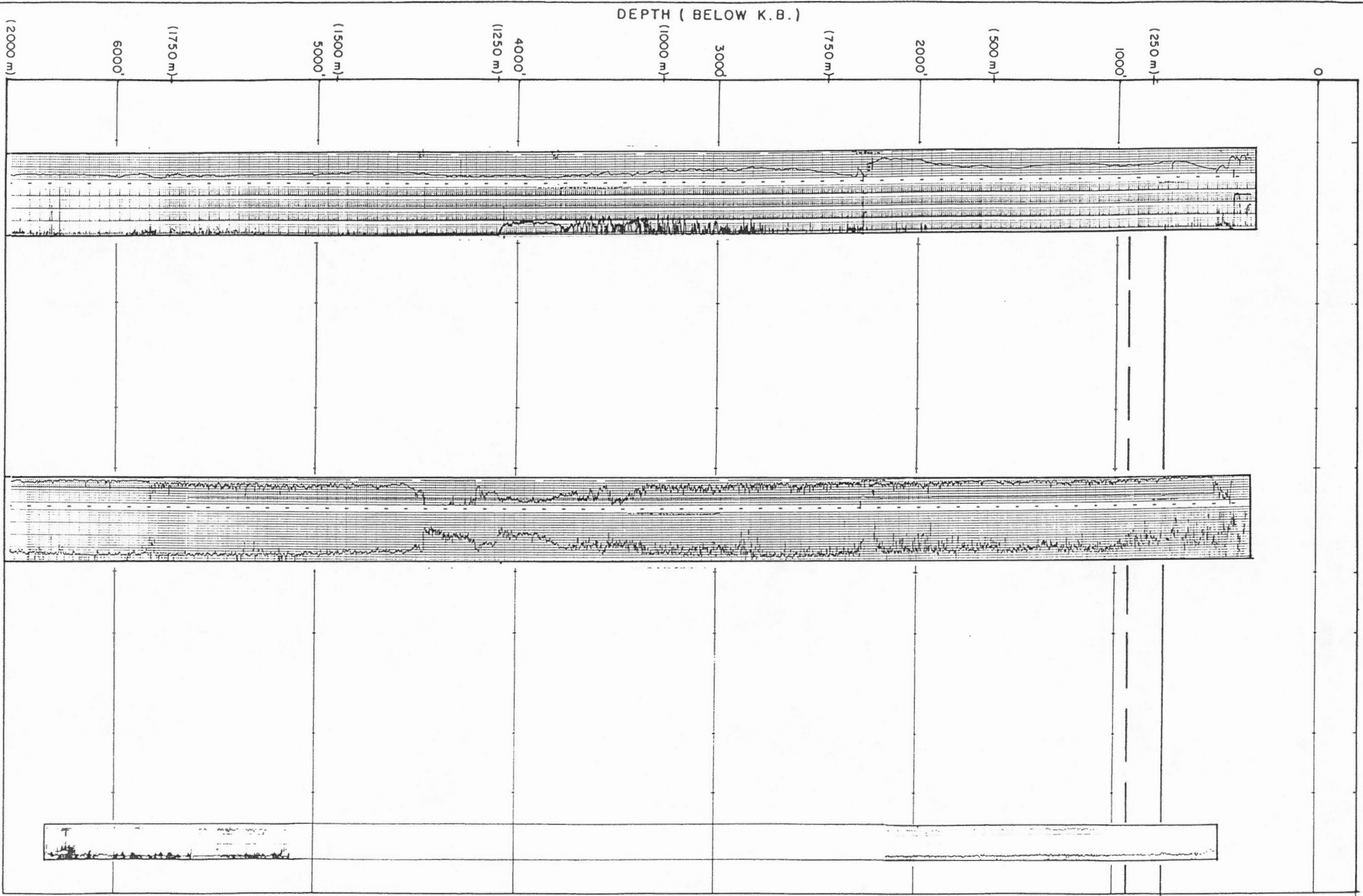
(B)

(C)

(D)

(E)

PERMAFROST /
HYDRATES



IBPF: 770'
 Base Trans: 950'
 No Hydrates Logged

DEPTH (BELOW K.B.)

0
 (250 m)
 1000'
 (500 m)
 2000'
 (750 m)
 3000'
 (1000 m)
 4000'
 (1250 m)
 5000'
 (1500 m)
 6000'
 (1750 m)
 (2000 m)

LOGS (LEFT TO RIGHT)

- (A) DILL
- (B) BHCS
- (C) BHCS
- (D) CN-FD
- (E) CN-FD



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PERMAFROST/GAS HYDRATE STUDY
 ARCTIC ISLANDS
 VICTORIA ISLAND F-36

CG10095

PLATE 23

(A)

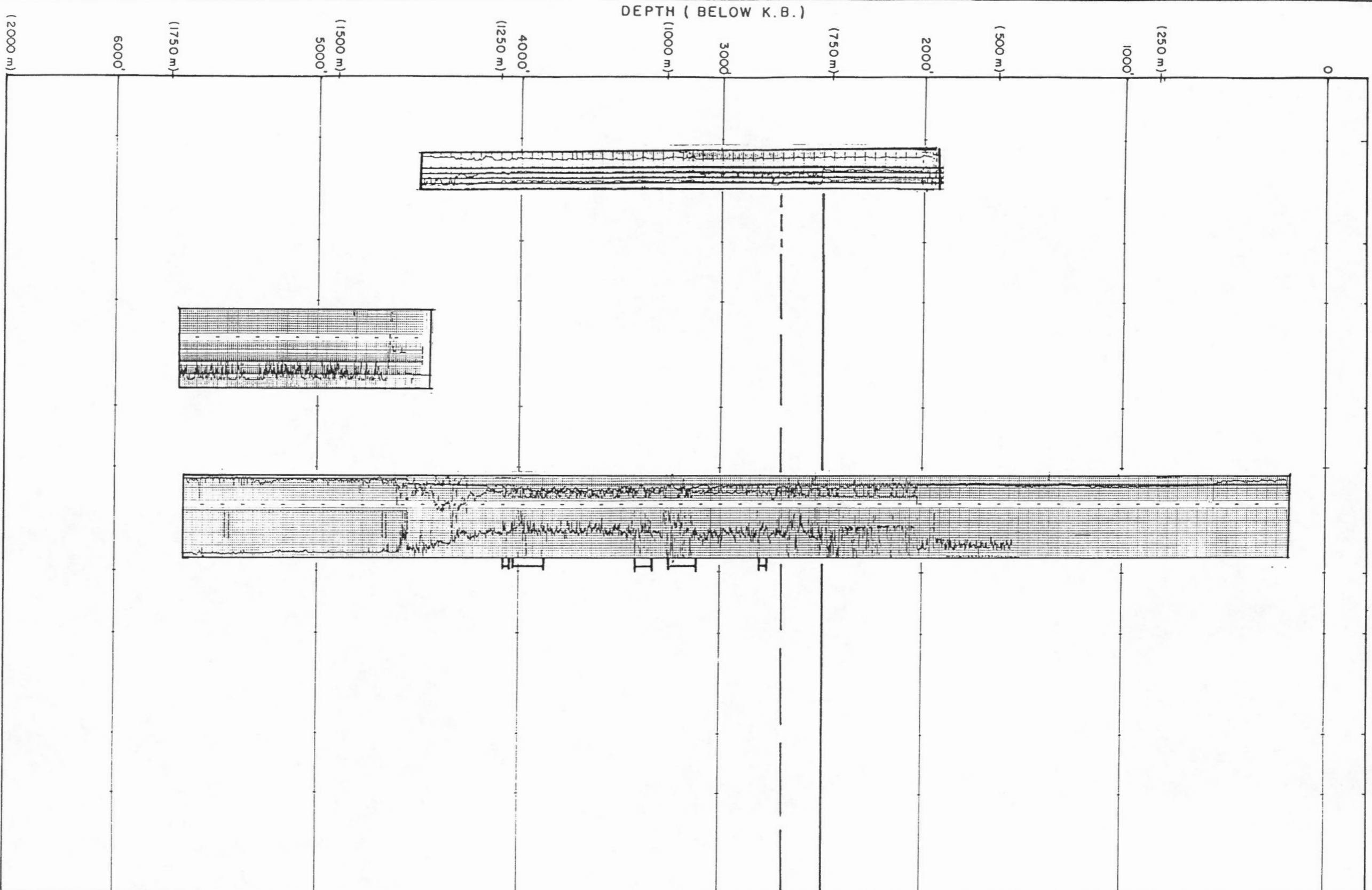
(B)

(C)

(D)

(E)

PERMAFROST
HYDRATES



IBPF: 2505'

Base Trans: 2720'

Possible Hydrates:
3140' - 3450'

Possible Hydrates:
3890' - 4100'

DEPTH (BELOW K.B.)

0

(250 m)

1000'

(500 m)

2000'

(750 m)

3000'

(1000 m)

4000'

(1250 m)

5000'

(1500 m)

(1750 m)

6000'

(2000 m)

LOGS (LEFT TO RIGHT)

(A) DILL

(B) DL

(C) BHCS

(D) CNFD

(E)



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PERMAFROST / GAS HYDRATE STUDY

ARCTIC ISLANDS

TIRITCHIK M-48

CG10095

PLATE 24

(A)

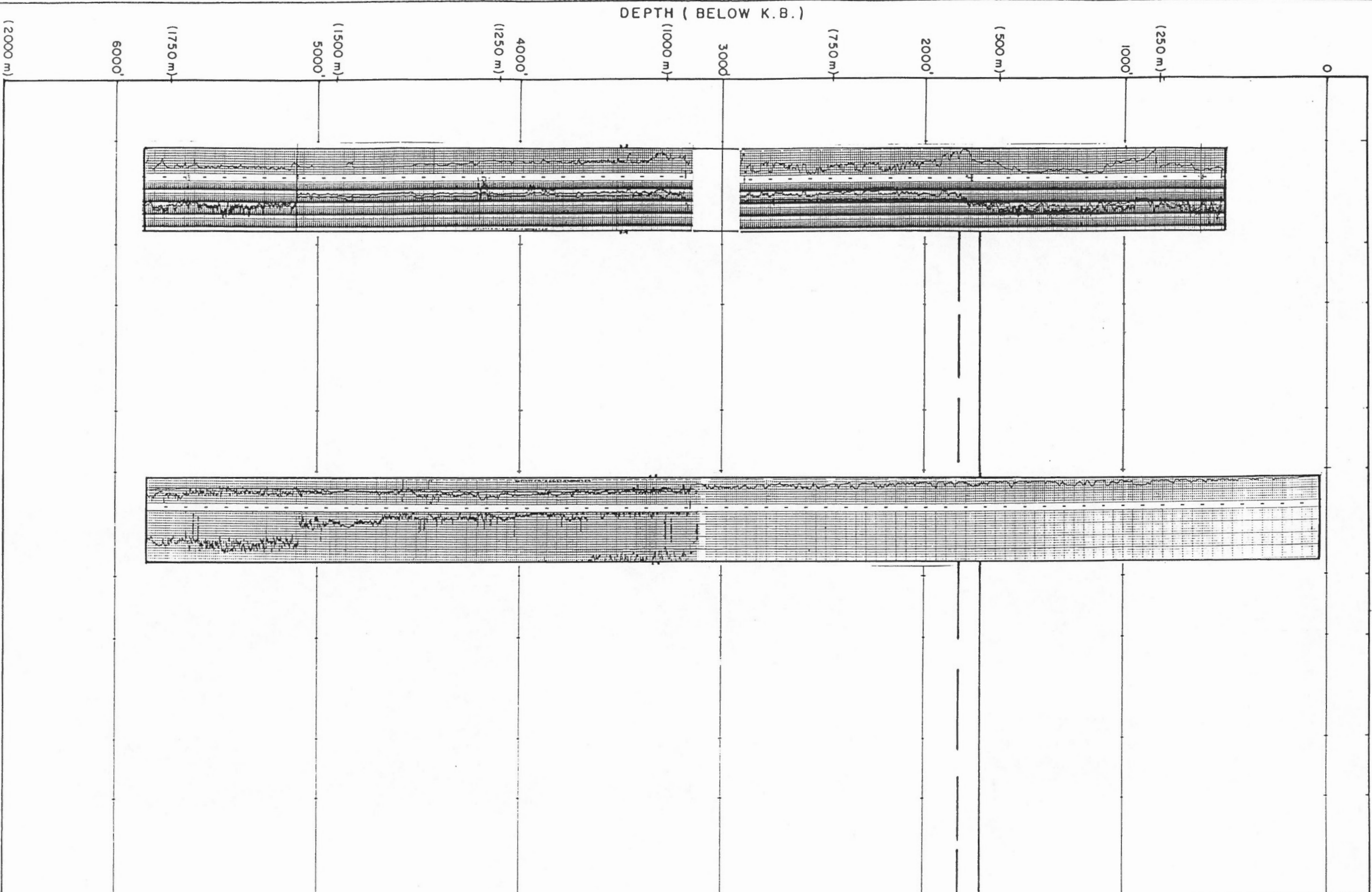
(B)

(C)

(D)

(E)

PERMAFROST /
HYDRATES



E.P.B. 0°C: 1624'
 IBPF: 1735'
 Base Trans: 1840'

No Hydrates
 Indicated

LOGS (LEFT TO RIGHT)

(A) DIL

(B) BHCS

(C)

(D)

(E)



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PERMAFROST/GAS HYDRATE STUDY

ARCTIC ISLANDS

STORKERSON BAY A-15

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PLATE 25

(A)

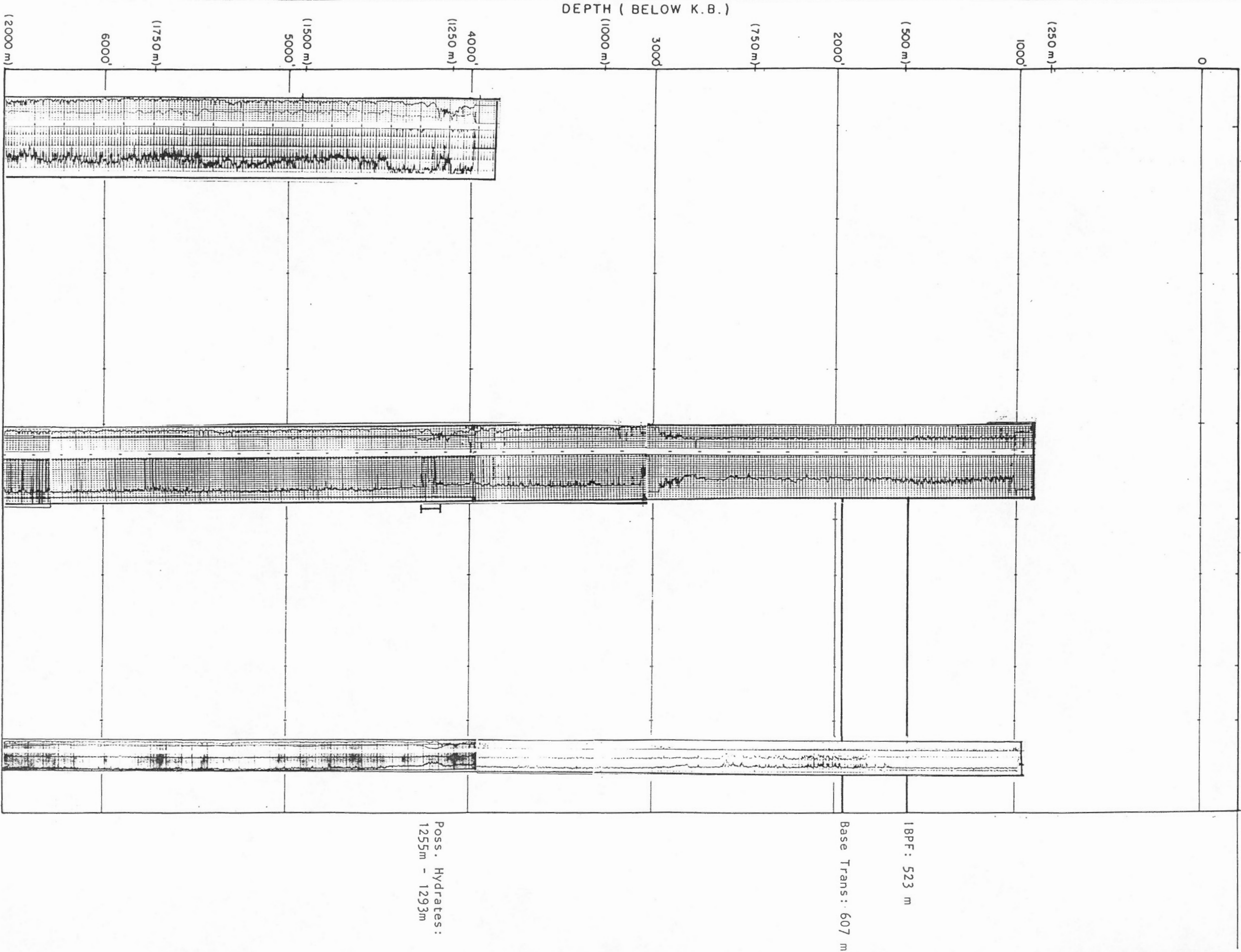
(B)

(C)

(D)

(E)

PERMAFROST /
HYDRATES



18PF: 523 m
Base Trans: 607 m

Poss. Hydrates:
1255m - 1293m

LOGS (LEFT TO RIGHT)

- (A) DLL
- (B) BHCS
- (C) QNFD
- (D)
- (E)



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PERMAFROST / GAS HYDRATE STUDY
ARCTIC ISLANDS
PARKER R. J-72

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PLATE 26

(A)

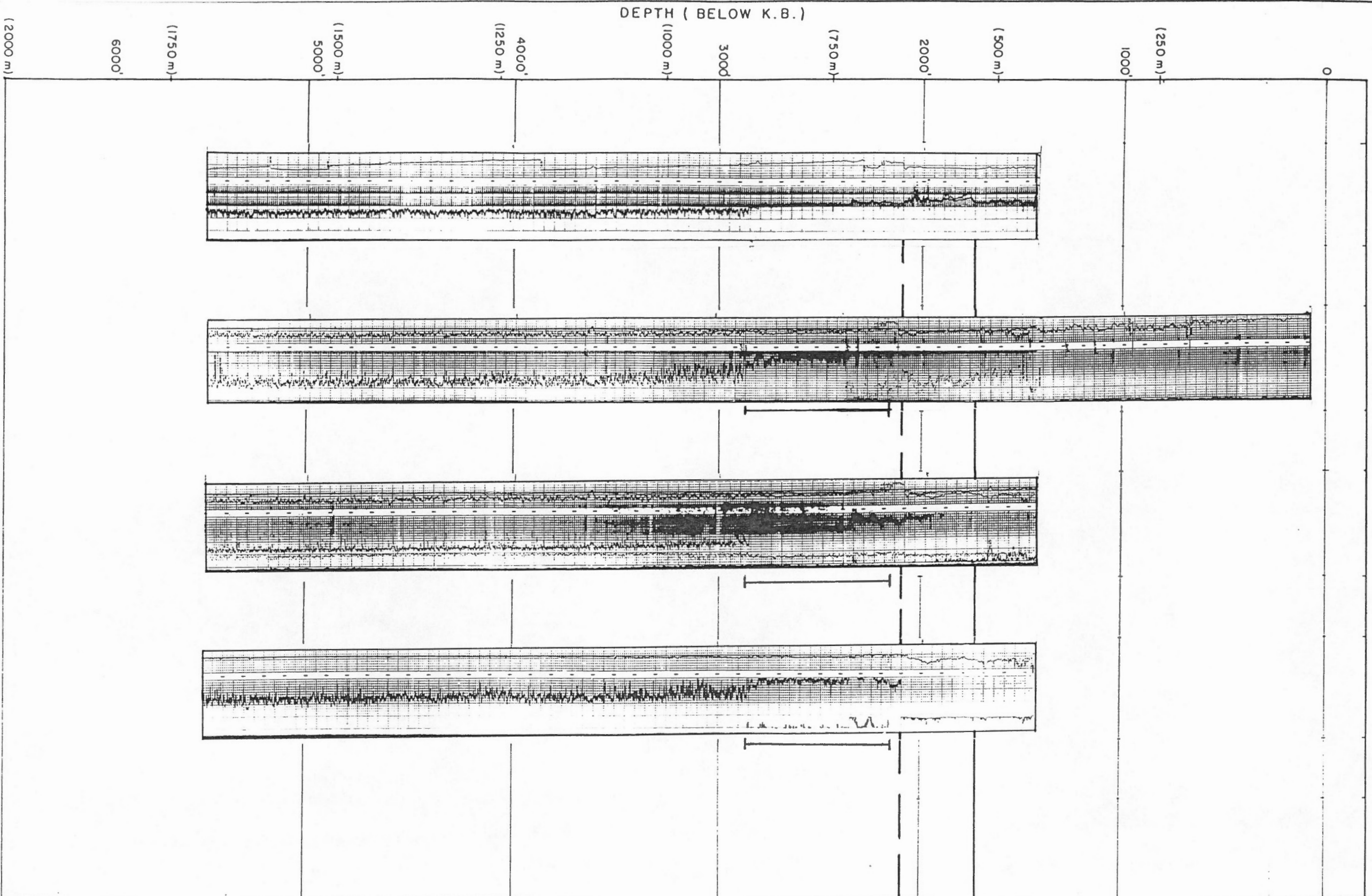
(B)

(C)

(D)

(E)

PERMAFROST
HYDRATES



IBPF: 1770'

Base Trans: 2100'

Possible Hydrates:
2160' - 2860'

LOGS (LEFT TO RIGHT)

- (A) DILL
- (B) BHCS
- (C) FDEN
- (D) SNP
- (E)



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PERMAFROST/GAS HYDRATE STUDY

ARCTIC ISLANDS
UMINMAK H-07

CG10095

PLATE 27

(A)

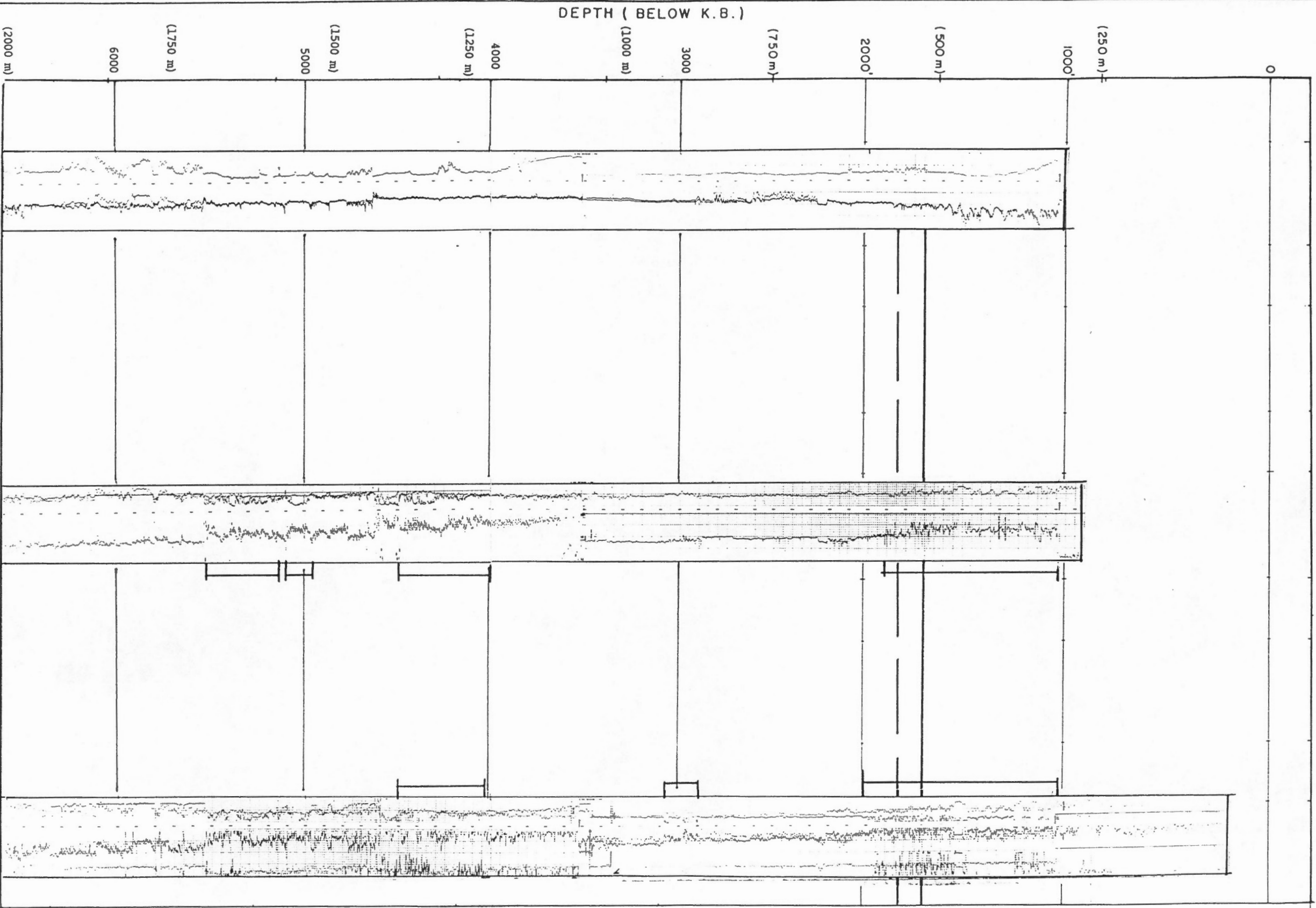
(B)

(C)

(D)

(E)

PERMAFROST /
HYDRATES



Poss. Hydrates:
982' - 2020'

IBPF: 1685'
Base Trans: 1820'

Poss. Hydrate:
2910 - 3080

Poss. Hydrate:
4970' - 5535'

LOGS (LEFT TO RIGHT)

- (A) DILL
- (B) BHCS
- (C) CNFD
- (D)
- (E)



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PERMAFROST/GAS HYDRATE STUDY
ARCTIC ISLANDS
CASTEL BAY C-68

CG10095

PLATE 28

(A)

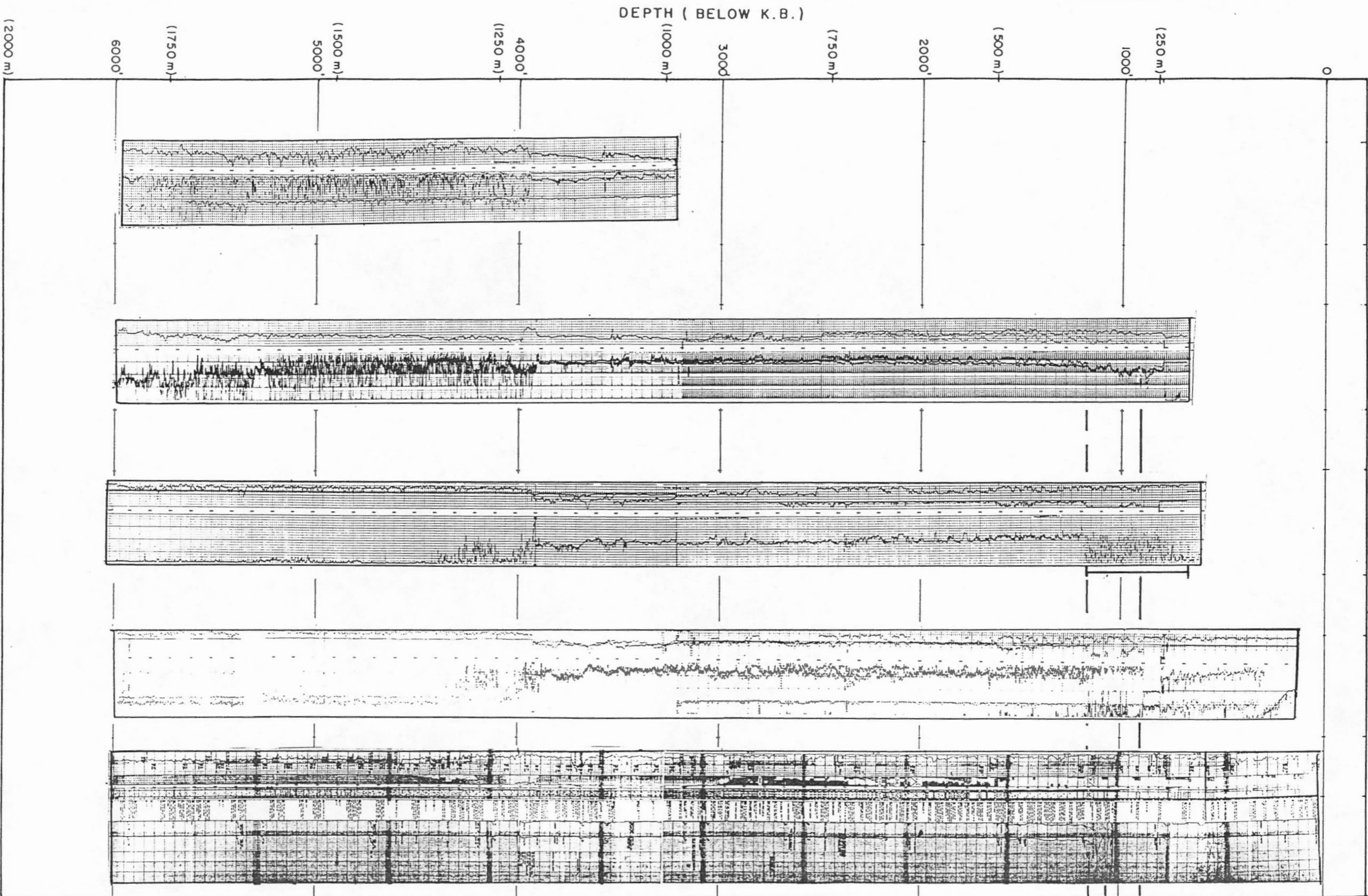
(B)

(C)

(D)

(E)

PERMAFROST
HYDRATES



1BPF: 930'
 ? Hydrates:
 760' - 1190'
 Base Trans: 1190'

LOGS (LEFT TO RIGHT)

- (A) EL
- (B) DILL
- (C) BHCS
- (D) CNFD
- (E) MUD



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PERMAFROST/GAS HYDRATE STUDY

ARCTIC ISLANDS

BAR HARBOUR E-76

CG10095

PLATE 29

(A)

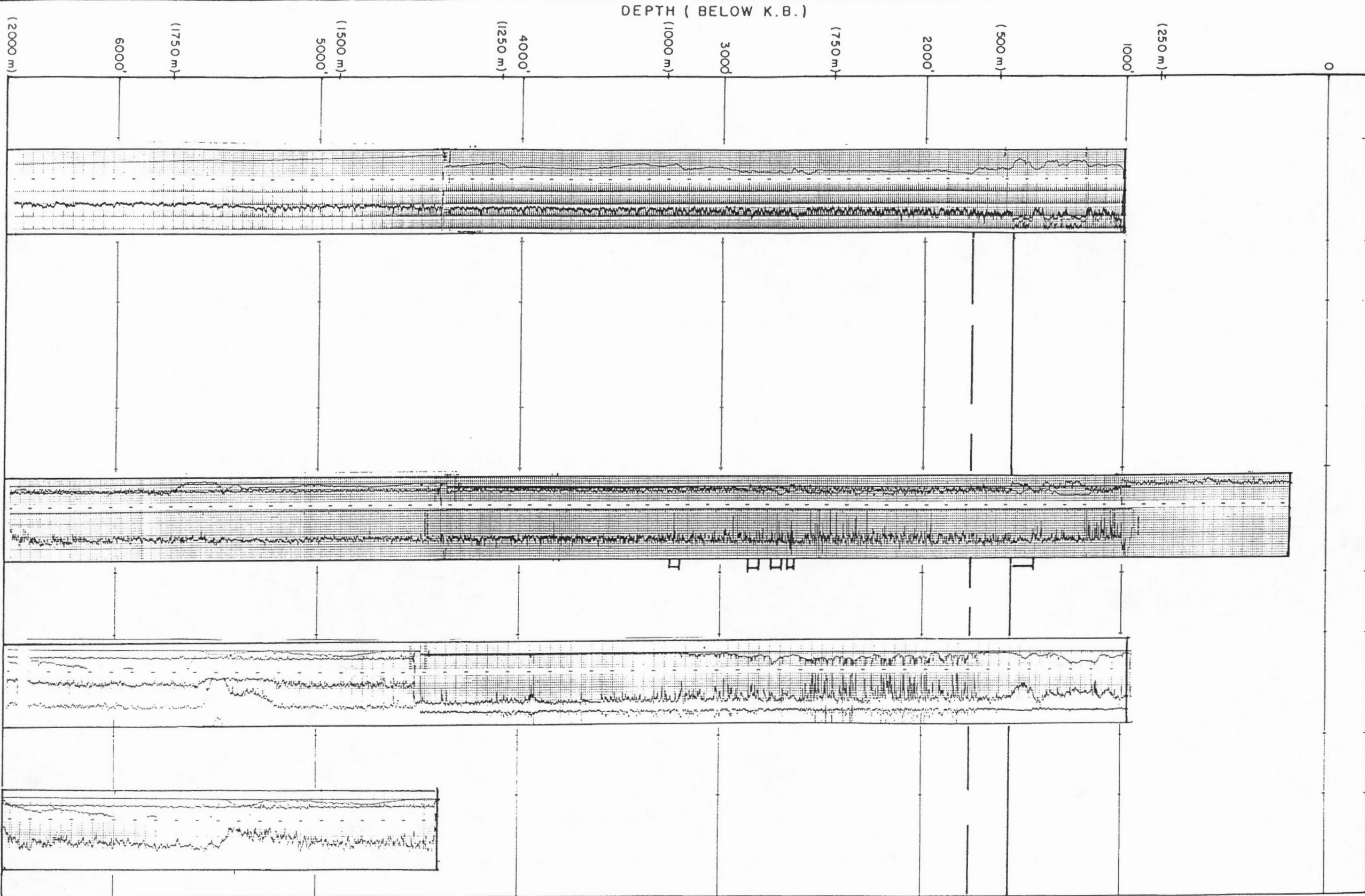
(B)

(C)

(D)

(E)

PERMAFROST /
HYDRATES



LOGS (LEFT TO RIGHT)

- (A) DILL
- (B) BHCS
- (C) FDEN
- (D) SNP
- (E)



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PERMAFROST / GAS HYDRATE STUDY

ARCTIC ISLANDS

DUNDAS C-80

CG10095

PLATE 30

(A)

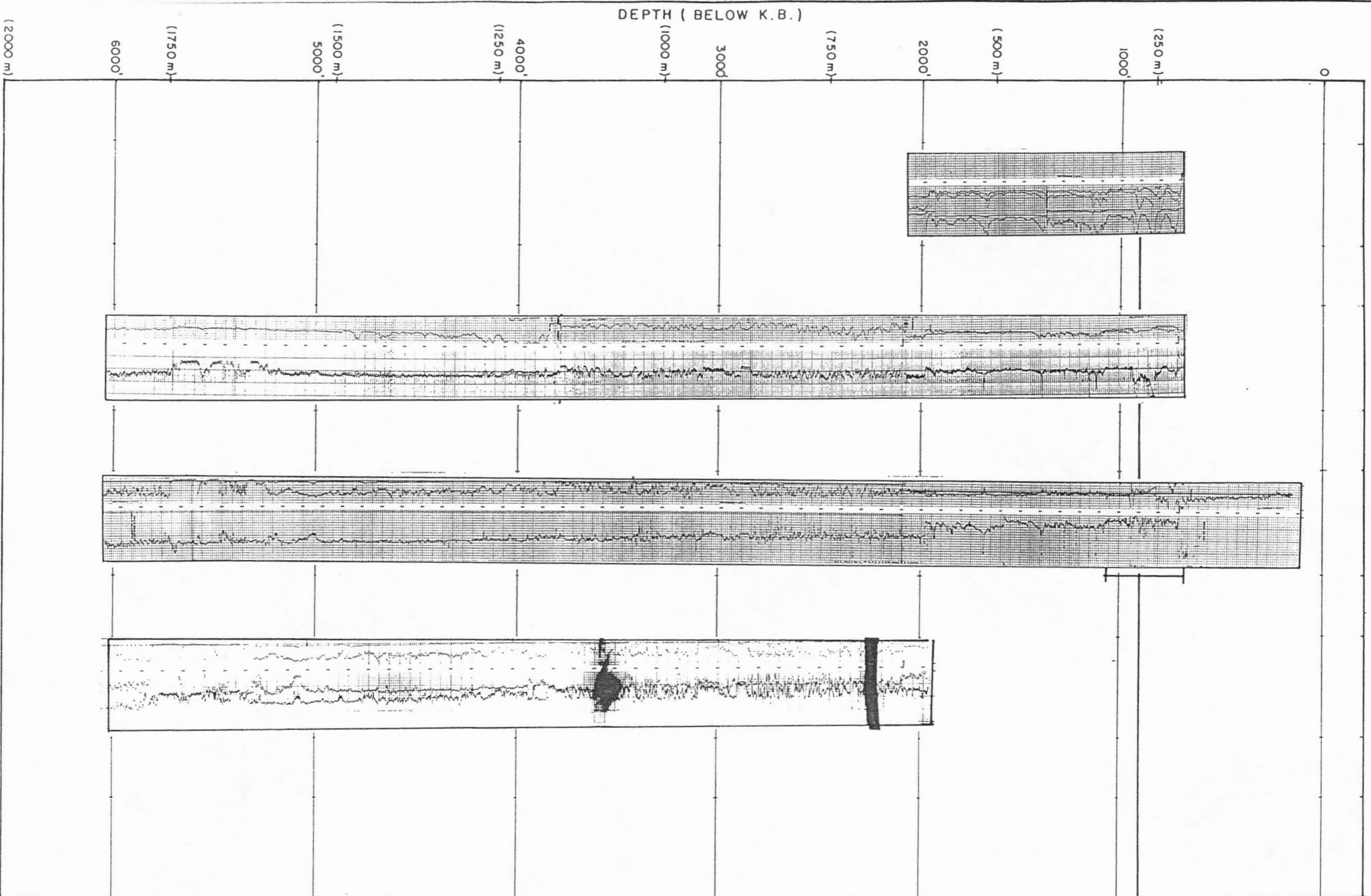
(B)

(C)

(D)

(E)

PERMAFROST /
HYDRATES



1BPF: 930'
 ? Hydrates:
 693' - 1050'

LOGS (LEFT TO RIGHT)

- (A) E LOG
- (B) DILL
- (C) BHCS
- (D) CNFD
- (E)



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PERMAFROST/GAS HYDRATE STUDY
 ARCTIC ISLANDS
 PEDDER POINT D-49

CG10095

PLATE 32

(A)

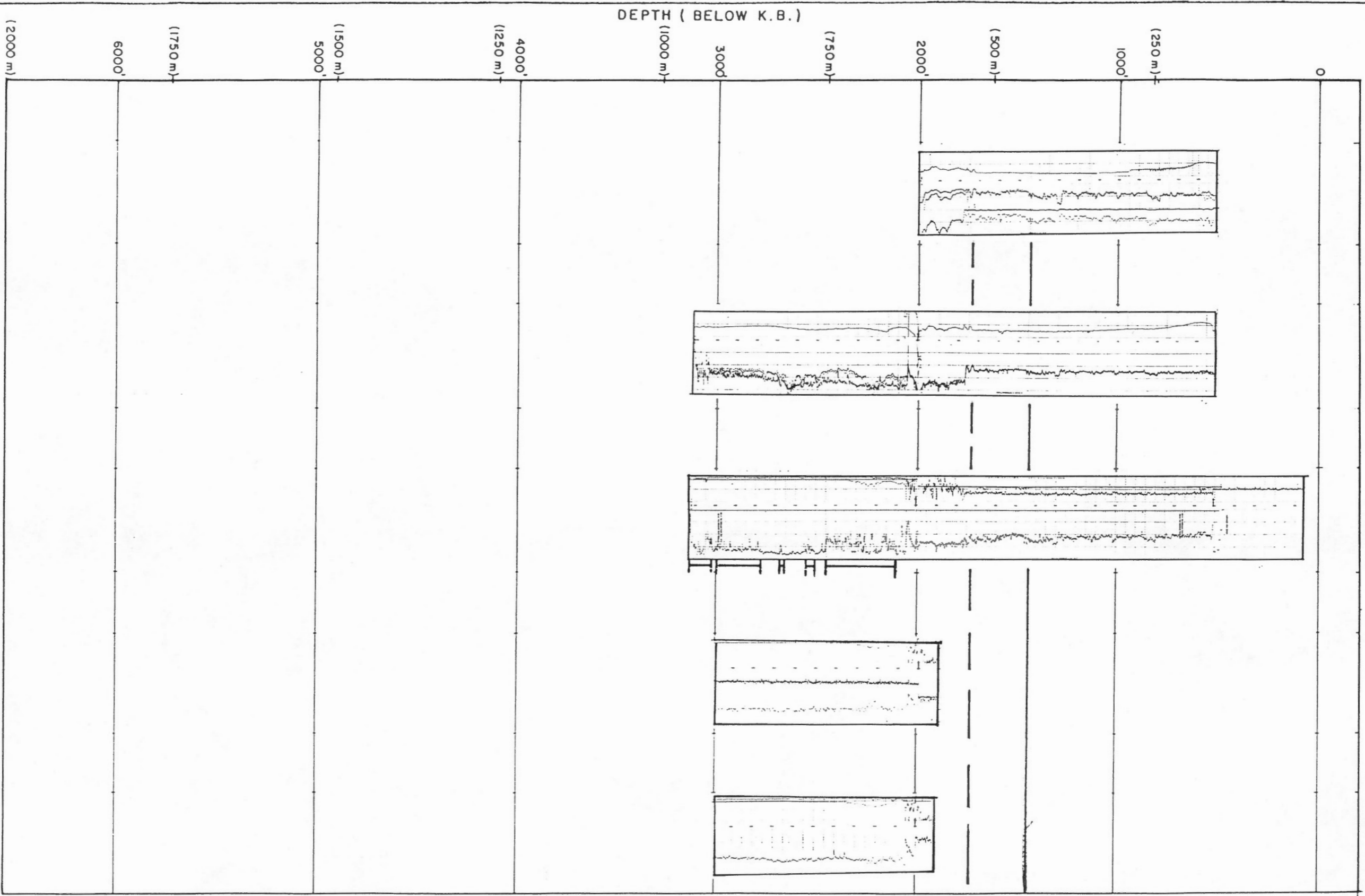
(B)

(C)

(D)

(E)

PERMAFROST
HYDRATES



1BPF: 1460'
Base Trans: 1720'

? Hydrates:
2100' - 3120'

LOGS (LEFT TO RIGHT)

- (A) EL
- (B) DILL
- (C) BHCS
- (D) FDEN
- (E) SNP



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PERMAFROST/GAS HYDRATE STUDY
ARCTIC ISLANDS
ZEUS F-11

CG10095

PLATE 33

(A)

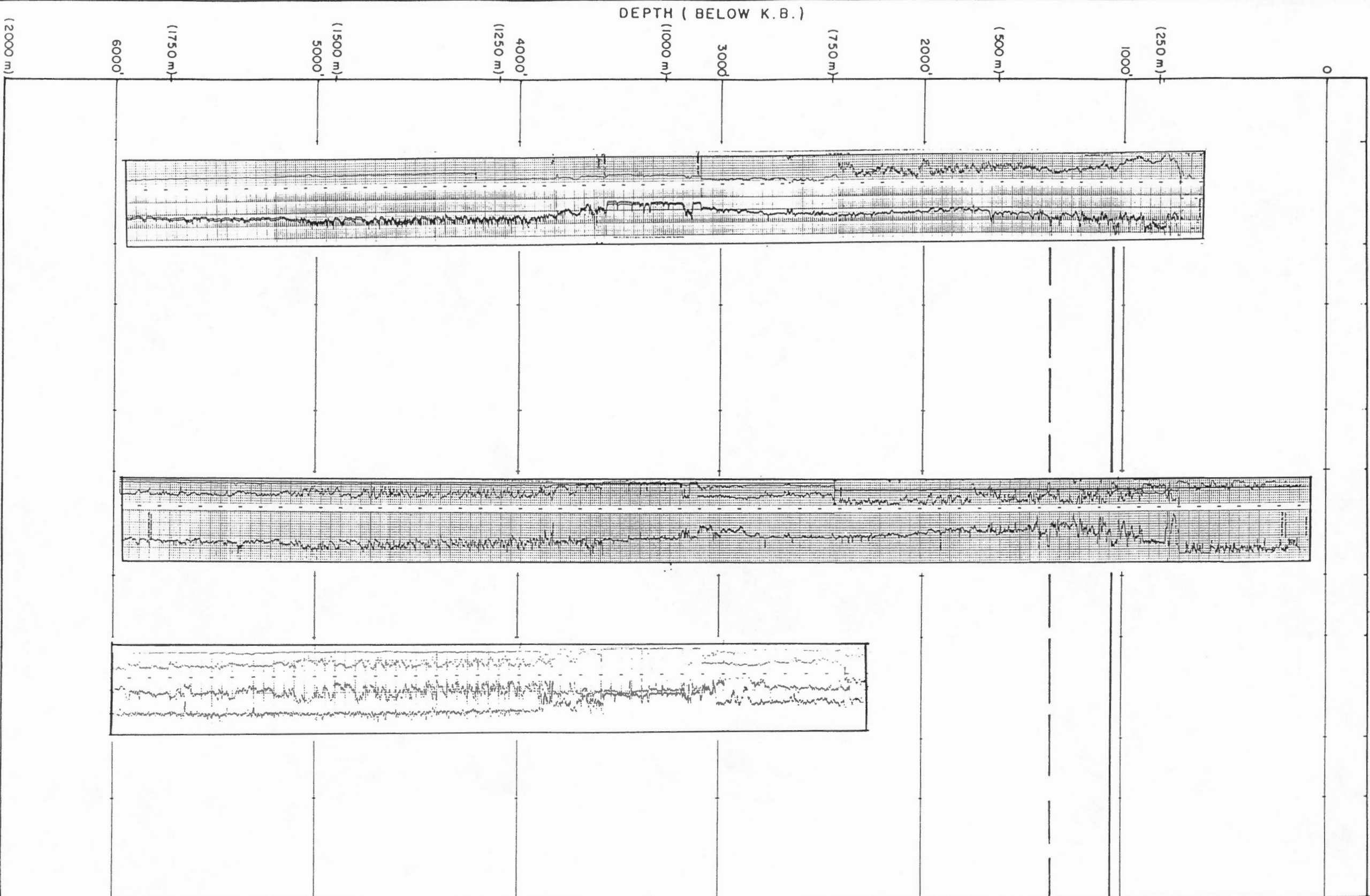
(B)

(C)

(D)

(E)

PERMAFROST /
HYDRATES



1BPF: 1040'
 Base Trans: 1360'
 No Hydrates Logged

DEPTH (BELOW K.B.)

0

(250 m)

(500 m)

2000'

(750 m)

3000'

(1000 m)

4000'

(1250 m)

(1500 m)

5000'

(1750 m)

6000'

(2000 m)

LOGS (LEFT TO RIGHT)

(A) DILL

(B) BHCS

(C) CNFD

(E)



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PERMAFROST / GAS HYDRATE STUDY

ARCTIC ISLANDS

EGLINTON P-24

CG10095

PLATE 34

(A)

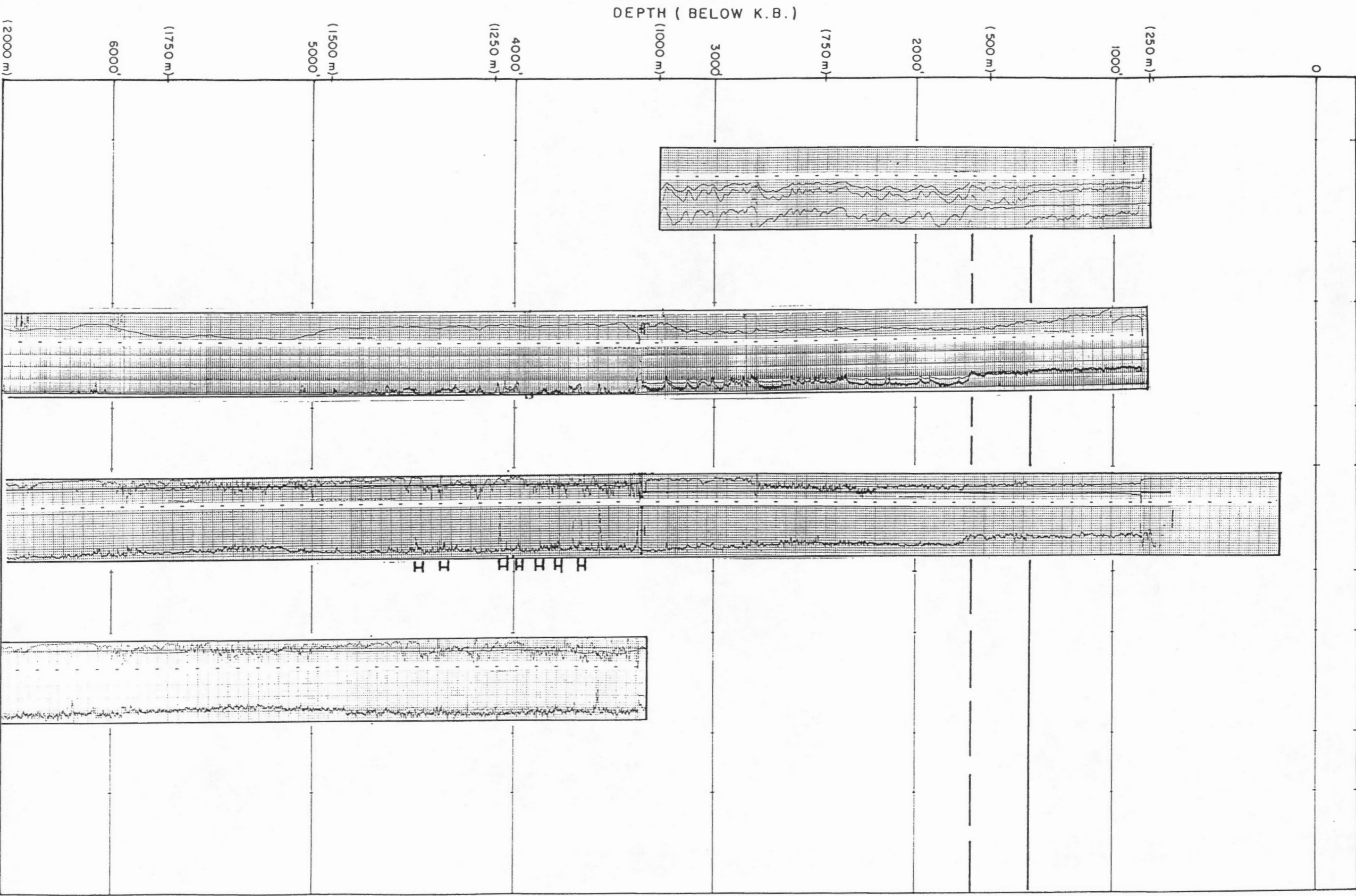
(B)

(C)

(D)

(E)

PERMAFROST /
HYDRATES



Possible Hydrates:
3680' - 4110'

Possible Hydrates:
4380' - 4530'

1BPF: 1410'
Base Trans: 1730'

LOGS (LEFT TO RIGHT)

- (A) EL
- (B) DILL
- (C) BHCS
- (D) CNFD
- (E)



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PERMAFROST/GAS HYDRATE STUDY

ARCTIC ISLANDS
BLUE FIORD E-46

CG10095

PLATE 35

(A)

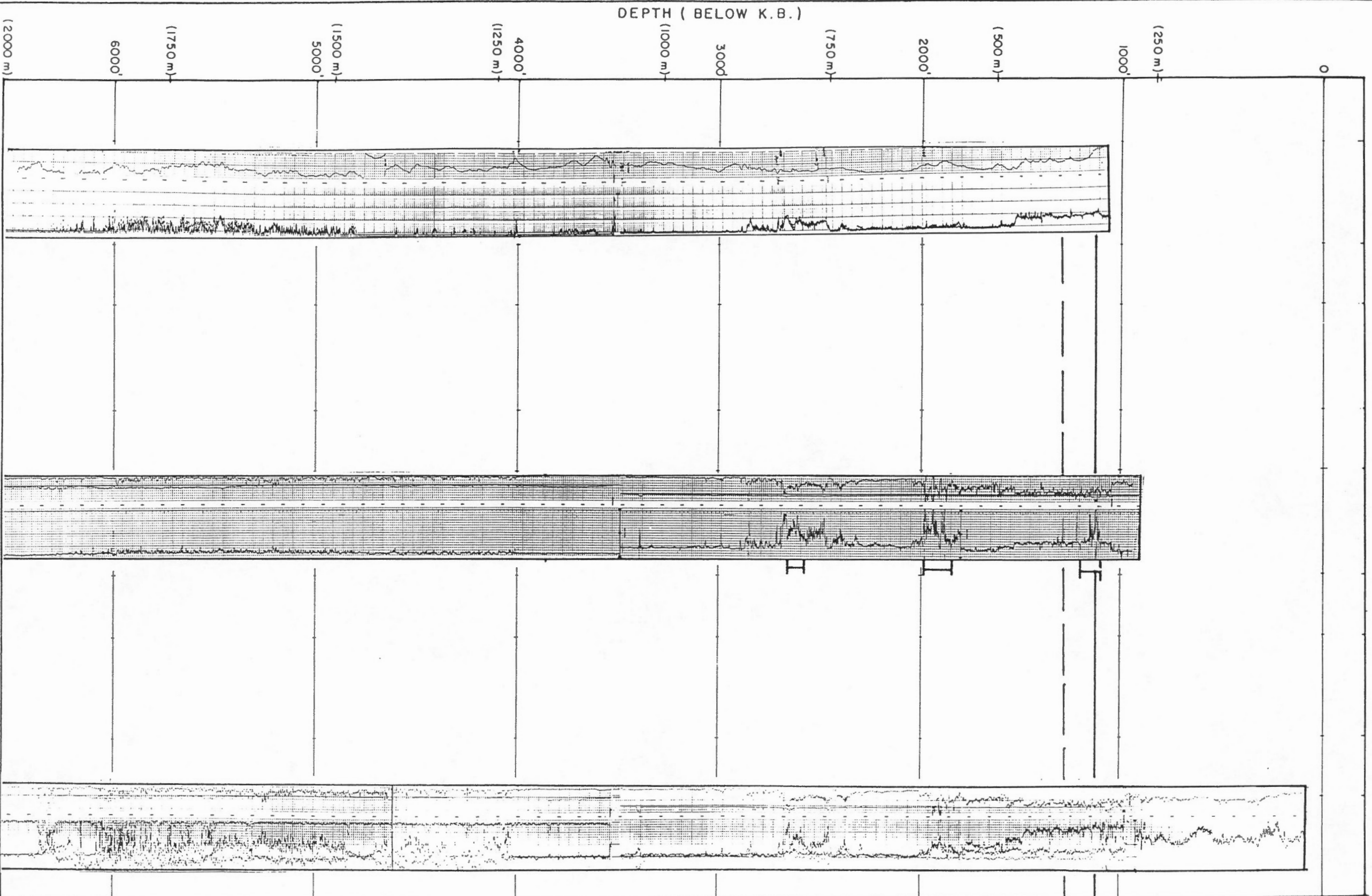
(B)

(C)

(D)

(E)

PERMAFROST /
HYDRATES



Possible Hydrates:
1090' - 1175'

IBPF: 1110'

Base Trans: 1290'

Possible Hydrates:
1875' - 1985'

Possible Hydrates:
2640' - 2670'

DEPTH (BELOW K.B.)

(2000 m)

6000'

(1750 m)

5000'

(1500 m)

4000'

(1250 m)

3000'

(1000 m)

2000'

(750 m)

1000'

(500 m)

0

LOGS (LEFT TO RIGHT)

(A) DILL

(B) BHCS

(C) CNFD

(D)

(E)



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PERMAFROST/GAS HYDRATE STUDY

ARCTIC ISLANDS

EIDS M-66

CG10095

PLATE 36

(A)

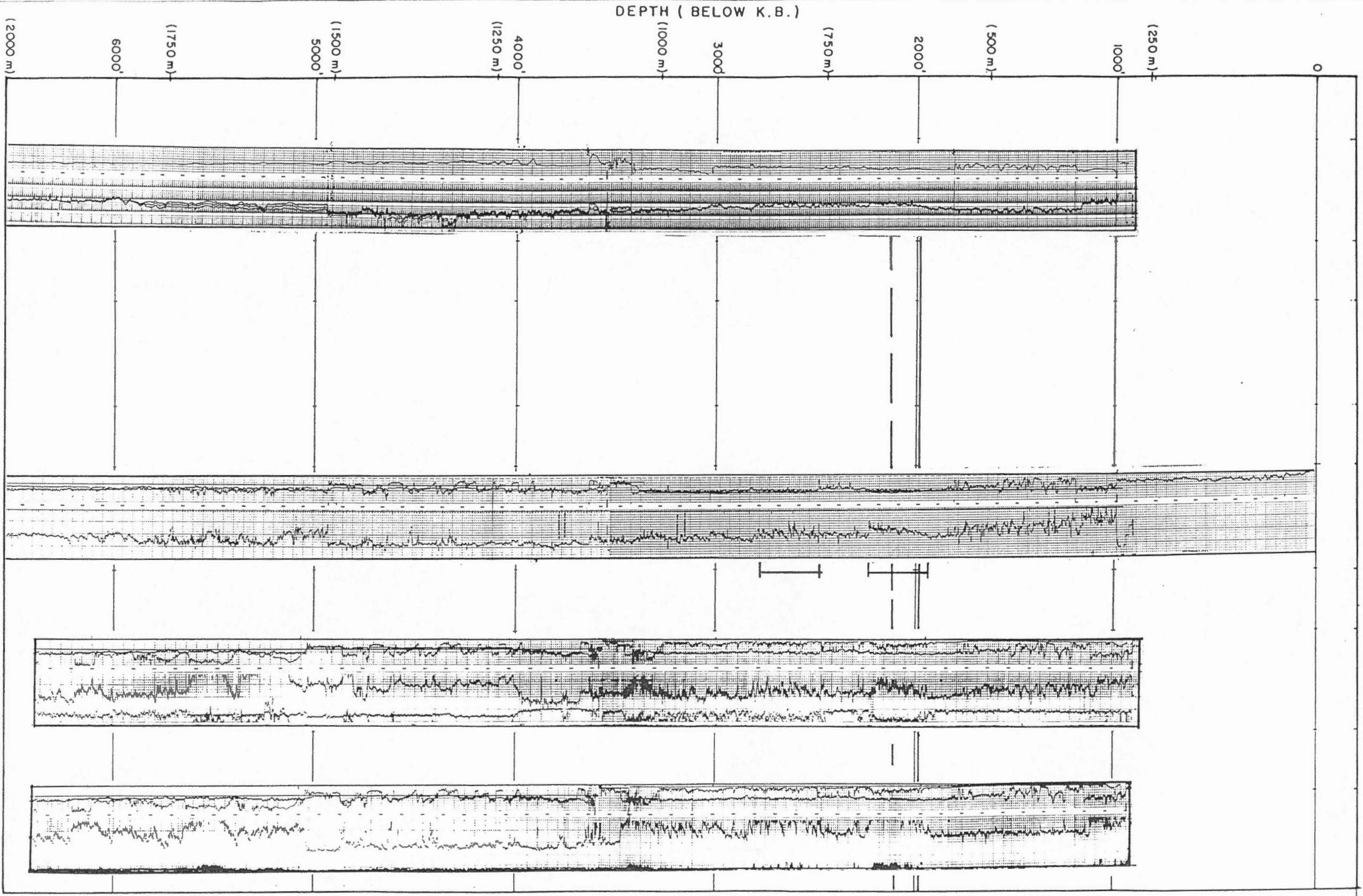
(B)

(C)

(D)

(E)

PERMAFROST /
HYDRATES



IBPF: 2000'
 Base Trans: 2150'
 Possible Hydrates:
 1950' - 2250'
 2500' - 2810'

DEPTH (BELOW K.B.)

(250 m)

1000'

(500 m)

2000'

(750 m)

3000'

(1000 m)

(1250 m)

4000'

(1500 m)

5000'

(1750 m)

6000'

(2000 m)

LOGS (LEFT TO RIGHT)

- (A) DILL
- (B) BHCS
- (C) FDEN
- (D) SNP
- (E)



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PERMAFROST / GAS HYDRATE STUDY

ARCTIC ISLANDS
 MAY POINT H-02

CG10095

PLATE 37

(A)

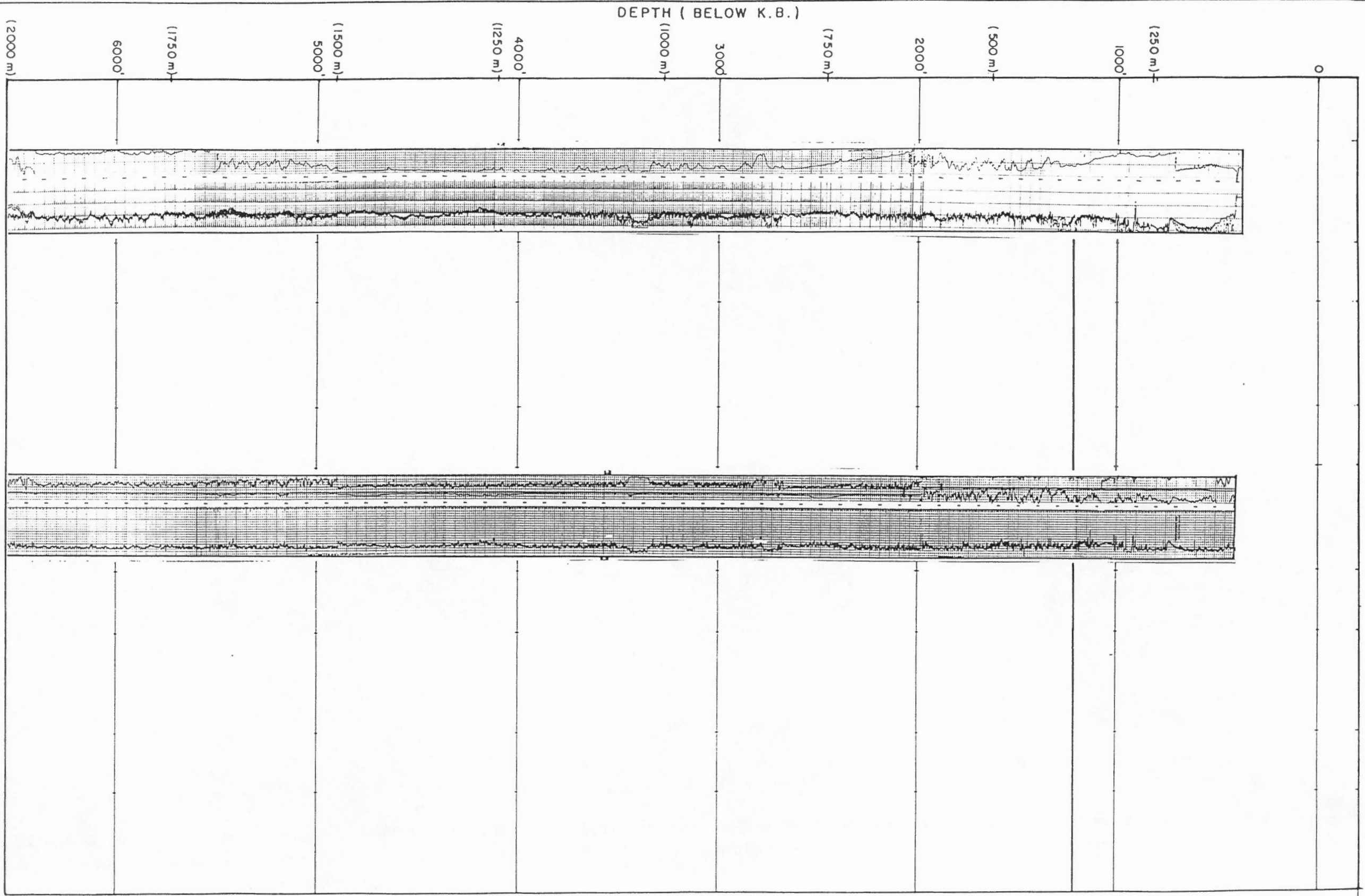
(B)

(C)

(D)

(E)

PERMAFROST /
HYDRATES



IBPF: 1220'

No evidence for hydrates on Sonic

SP suggests ice from 2000' - 2950'

LOGS (LEFT TO RIGHT)

- (A) DILL
- (B) BHCS
- (C)
- (D)
- (E)



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PERMAFROST/GAS HYDRATE STUDY
ARCTIC ISLANDS
DEPOT POINT L-24

CG10095

PLATE 38

(A)

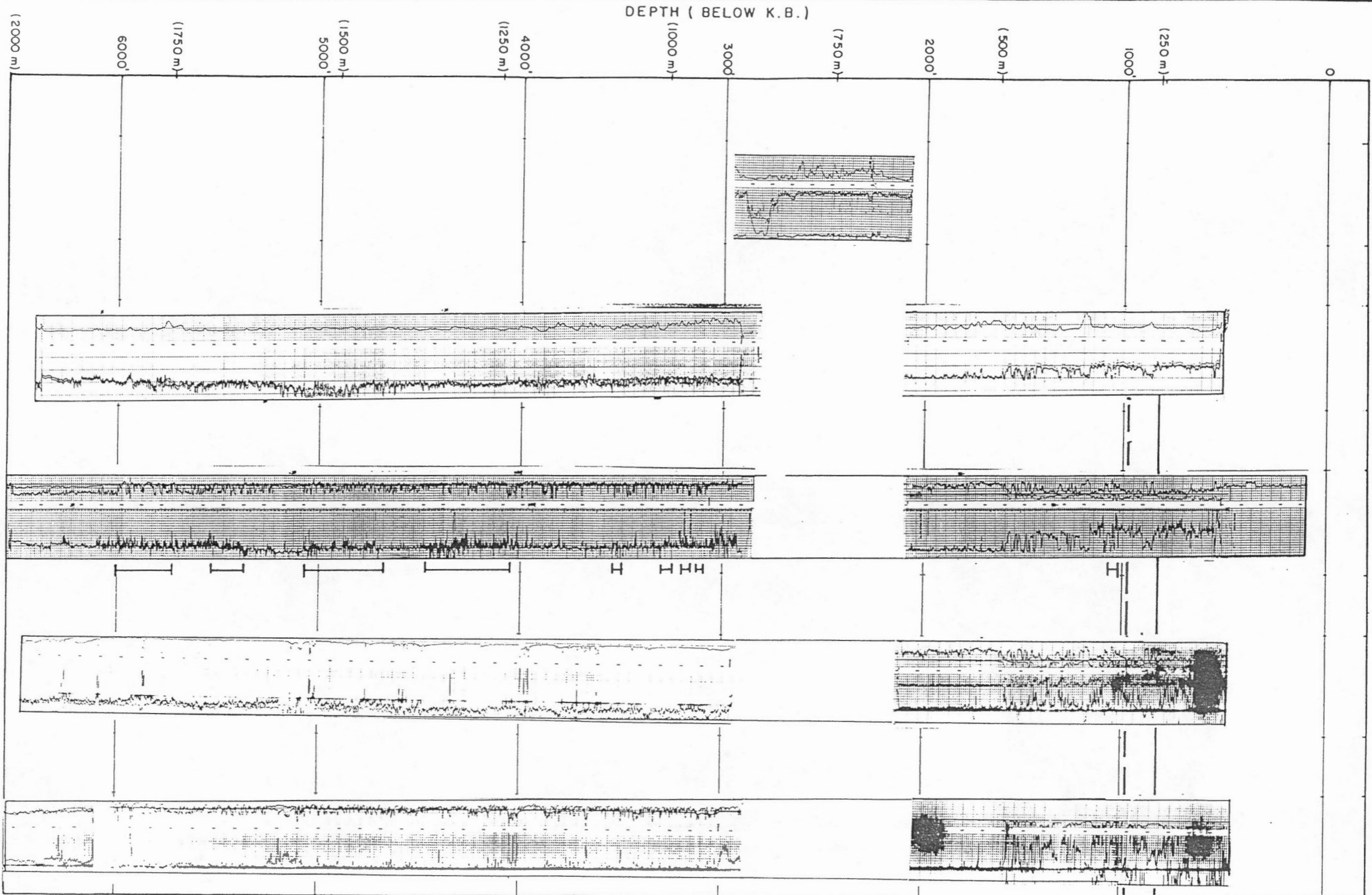
(B)

(C)

(D)

(E)

PERMAFROST /
HYDRATES



18PF: 827'

Base Trans: 971'

Possible Hydrates:
1020' - 1055'

Possible Hydrates:
3125' - 3520'

Scattered Hydrates
4085' - 6025'

LOGS (LEFT TO RIGHT)

- (A) IES
- (B) DILL
- (C) BHCS
- (D) FDEN
- (E) SNP



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PERMAFROST/GAS HYDRATE STUDY

ARCTIC ISLANDS

FOSHEIM N-27

CG10095

PLATE 39

(A)

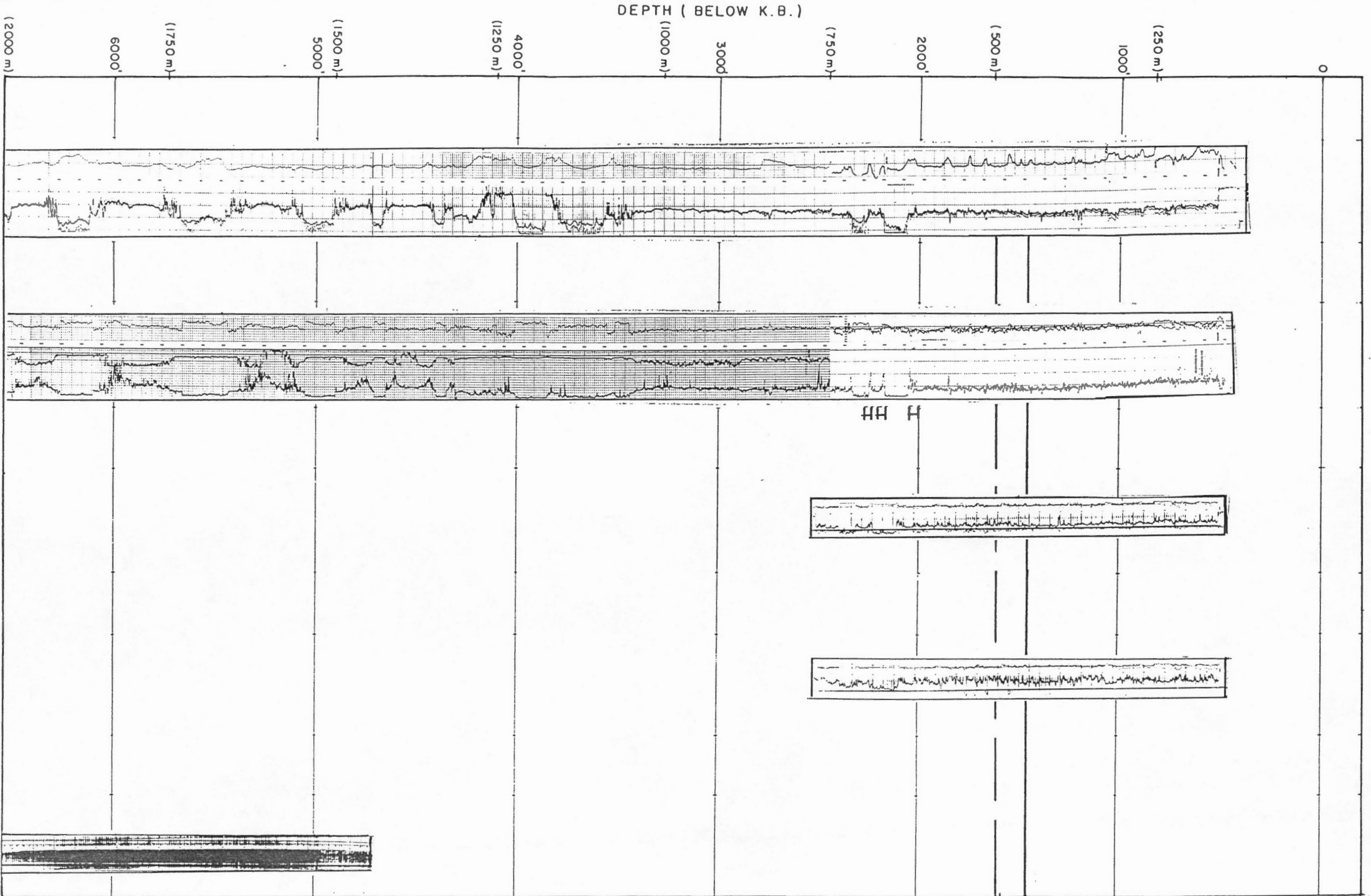
(B)

(C)

(D)

(E)

PERMAFROST /
HYDRATES



IBPF: 1510'
 E.P.B. 0°C: 1614'
 Base Trans: 1650'
 Possible Hydrates:
 2040' - 2280'

DEPTH (BELOW K.B.)

(250 m)

1000'

(500 m)

2000'

(750 m)

3000'

(1000 m)

4000'

(1250 m)

(1500 m)

5000'

(1750 m)

6000'

(2000 m)

LOGS (LEFT TO RIGHT)

- (A) DILL
- (B) BHCS
- (C) FDEN
- (D) SNP
- (E) TEMP



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PERMAFROST / GAS HYDRATE STUDY
 ARCTIC ISLANDS
 MOKKA A-02

CG10095

PLATE 40

(A)

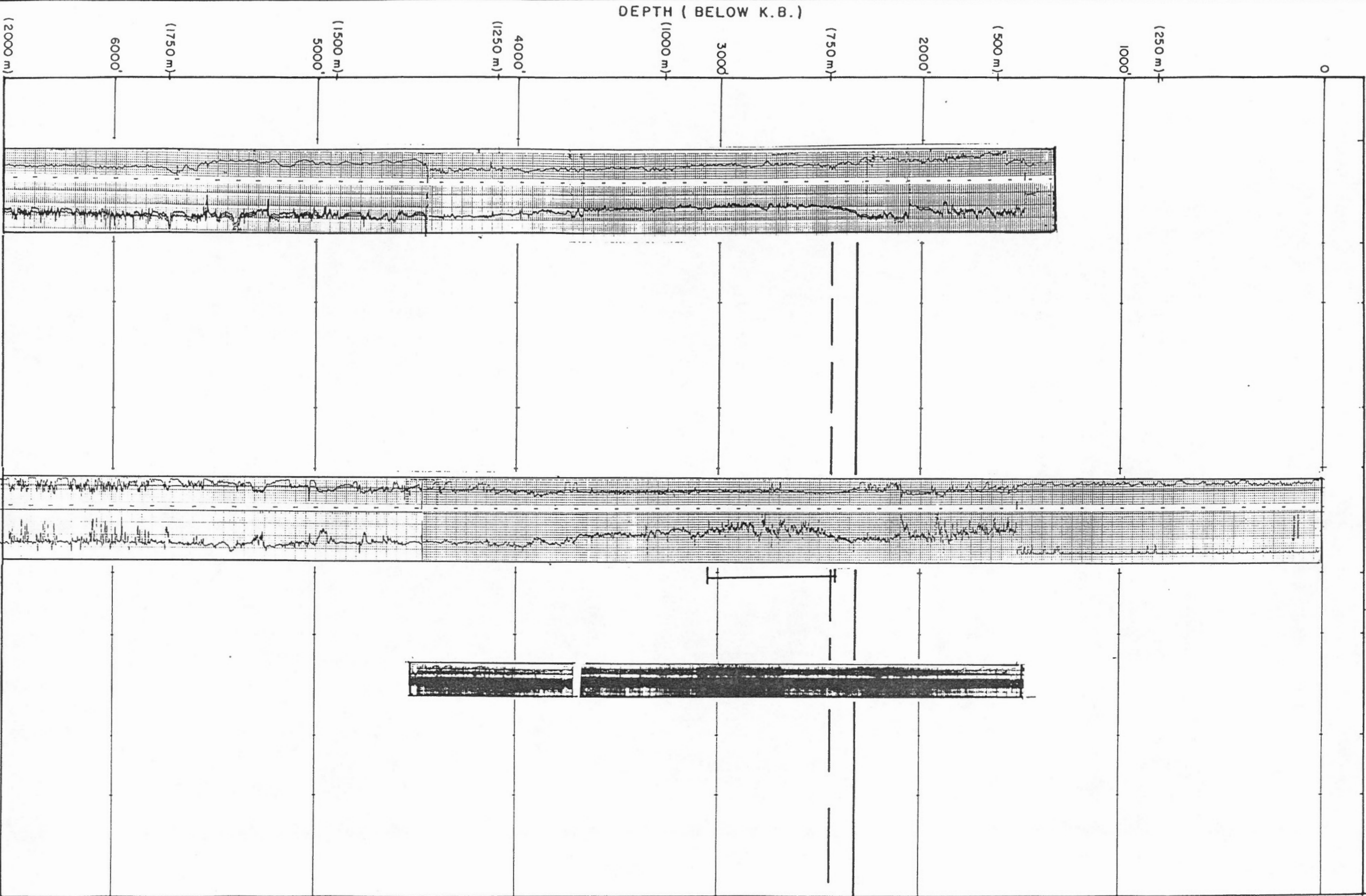
(B)

(C)

(D)

(E)

PERMAFROST /
HYDRATES



IBPF : 2350'
 Base Trans : 2500'
 ? Hydrates :
 2470' - 3050'

LOGS (LEFT TO RIGHT)

- (A) DILL
- (B) BHCS
- (C) FDEN
- (D)
- (E)



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PERMAFROST/GAS HYDRATE STUDY
 ARCTIC ISLANDS
 TALEMAN J-34

CG10095

PLATE 41

(A)

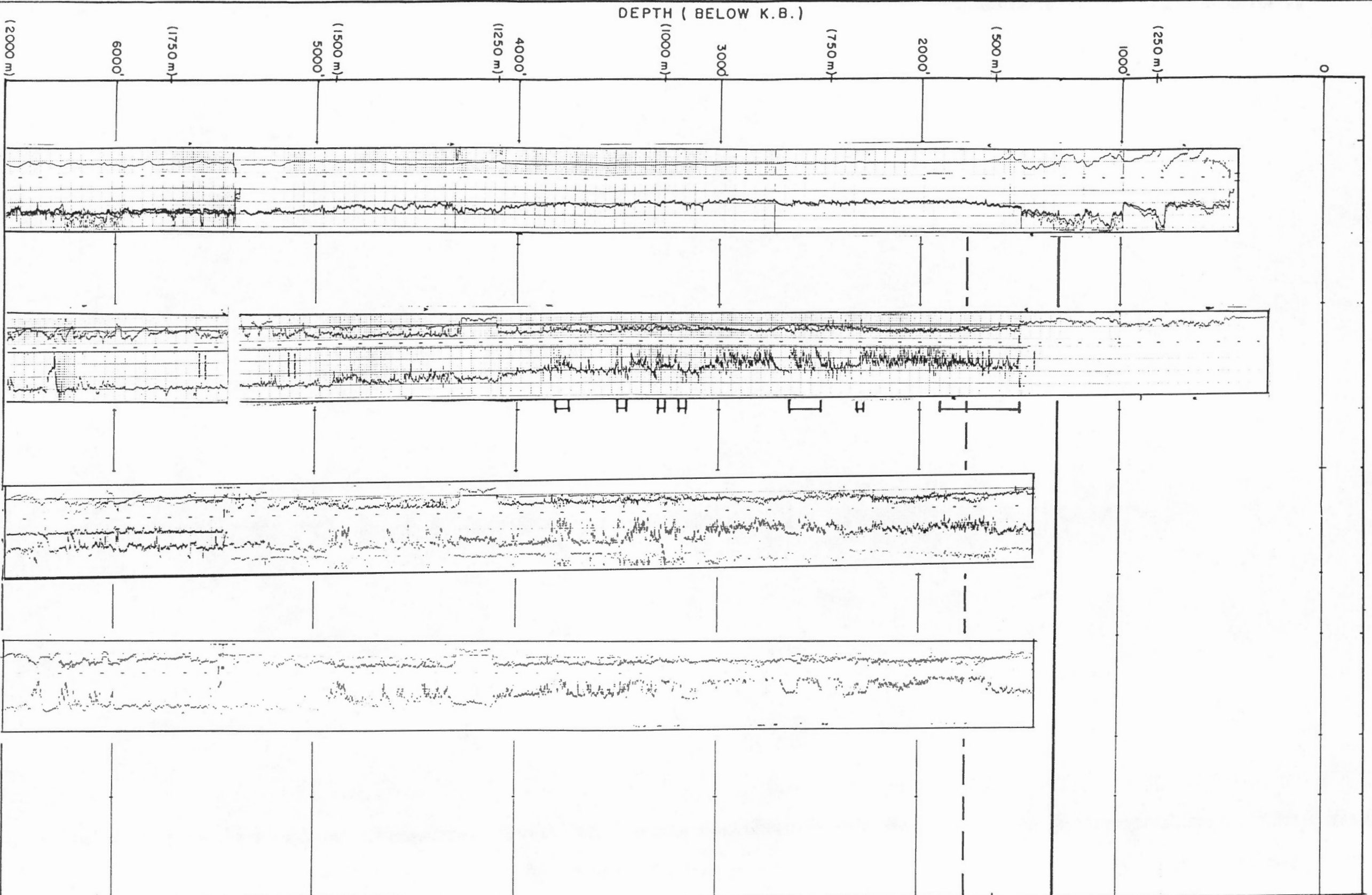
(B)

(C)

(D)

(E)

PERMAFROST /
HYDRATES



DEPTH (BELOW K.B.)

0
 (250 m)
 1000'
 (500 m)
 2000'
 (750 m)
 3000'
 (1000 m)
 4000'
 (1250 m)
 5000'
 (1500 m)
 6000'
 (1750 m)
 (2000 m)

1BPF: 1350'
 E.P.B. °C: 1624'
 Base Trans: 1770'

Possible scattered
 hydrates:
 1500' - 2660'

? Hydrates:
 3210' - 3835'

LOGS (LEFT TO RIGHT)

- (A) DILL
- (B) BHCS
- (C) F DEN
- (D) SNP
- (E)



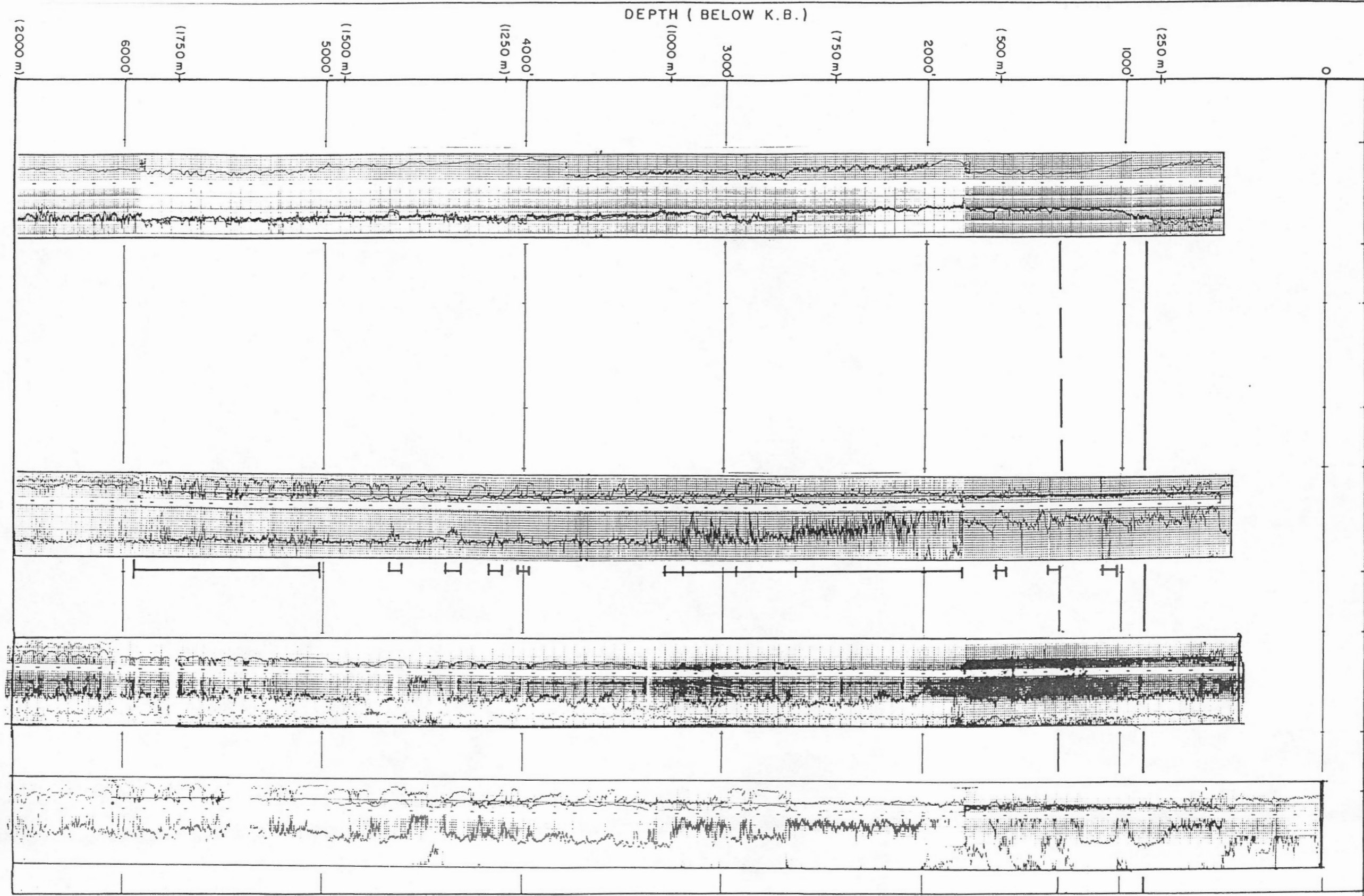
HARDY ASSOCIATES (1978) LTD.
 CONSULTING ENGINEERING & PROFESSIONAL SERVICES

PERMAFROST/GAS HYDRATE STUDY

ARCTIC ISLANDS
 GEMINI E-10

CG10095

PLATE 42



(A)

(B)

(C)

(D)

(E)

1BPF: 860'

Base Trans: 1340'

Scattered Hydrates
1050' - 1630'

Hydrates:
1800' - 3340'

Scattered Hydrates
3950' - 4700'

Possible Hydrates:
5010' - 5930'

DEPTH (BELOW K.B.)

(2000 m)

6000'

(1750 m)

5000'

(1500 m)

4000'

(1250 m)

3000'

(1000 m)

(750 m)

2000'

(500 m)

1000'

(250 m)

0

LOGS (LEFT TO RIGHT)

- (A) DILL
- (B) BHCS
- (C) FDEN
- (D) SNP
- (E)



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PERMAFROST / GAS HYDRATE STUDY

ARCTIC ISLANDS

ROMULUS C-42

CG10095

PLATE 43

(A)

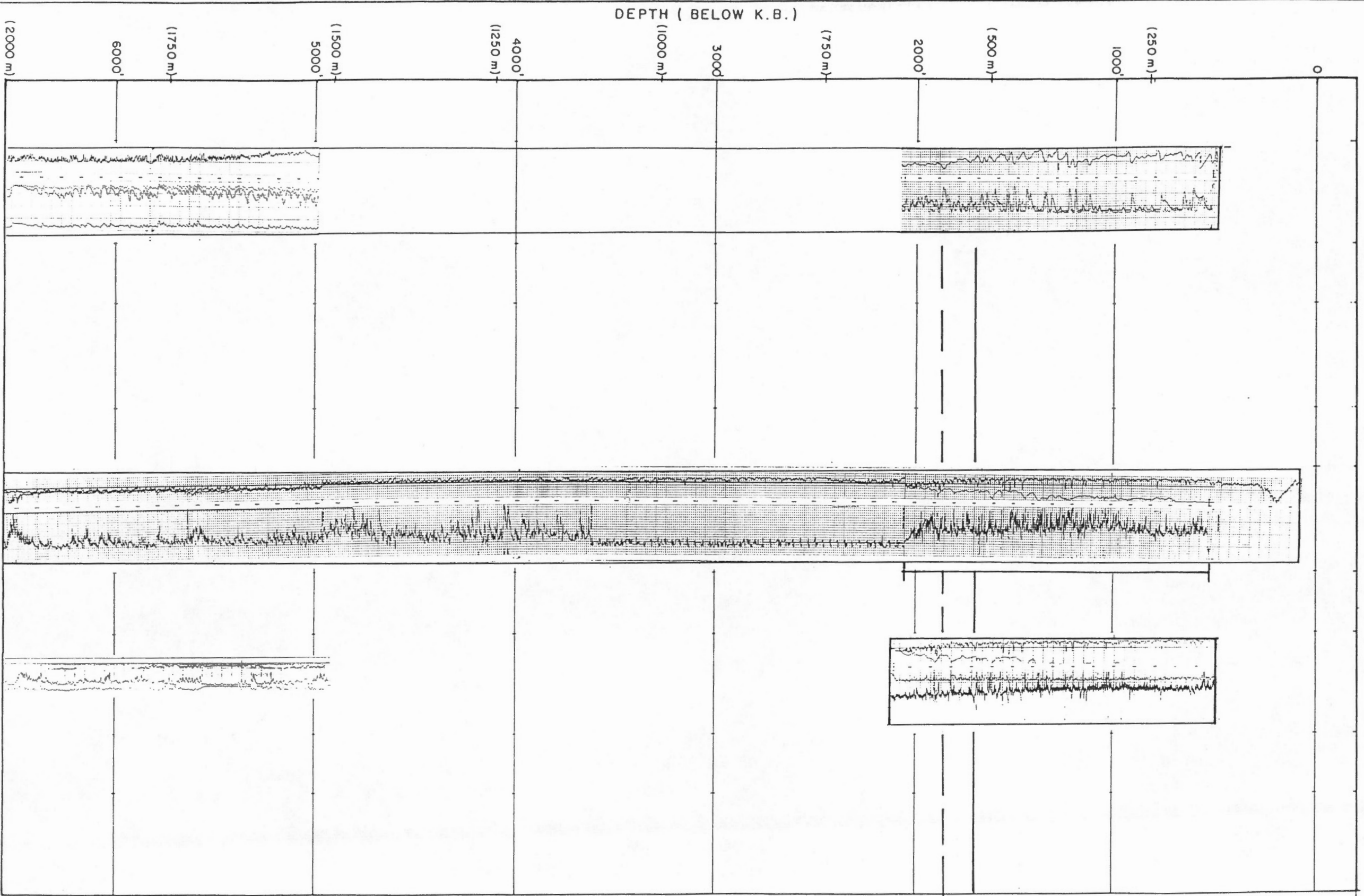
(B)

(C)

(D)

(E)

PERMAFROST /
HYDRATES



? Hydrates:
505' - 2040'
Possibly Deeper'

IBPF: 1740'

Base Trans: 1880'

DEPTH (BELOW K.B.)

0

(250 m)

1000'

(500 m)

2000'

(750 m)

3000'

(1000 m)

4000'

(1250 m)

5000'

(1500 m)

(1750 m)

6000'

(2000 m)

LOGS (LEFT TO RIGHT)

(A) IES

(B) BHCS

(C) FDEN

(E)



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PERMAFROST/GAS HYDRATE STUDY

ARCTIC ISLANDS
HOTSPUR J-20

CG10095

PLATE 44

(A)

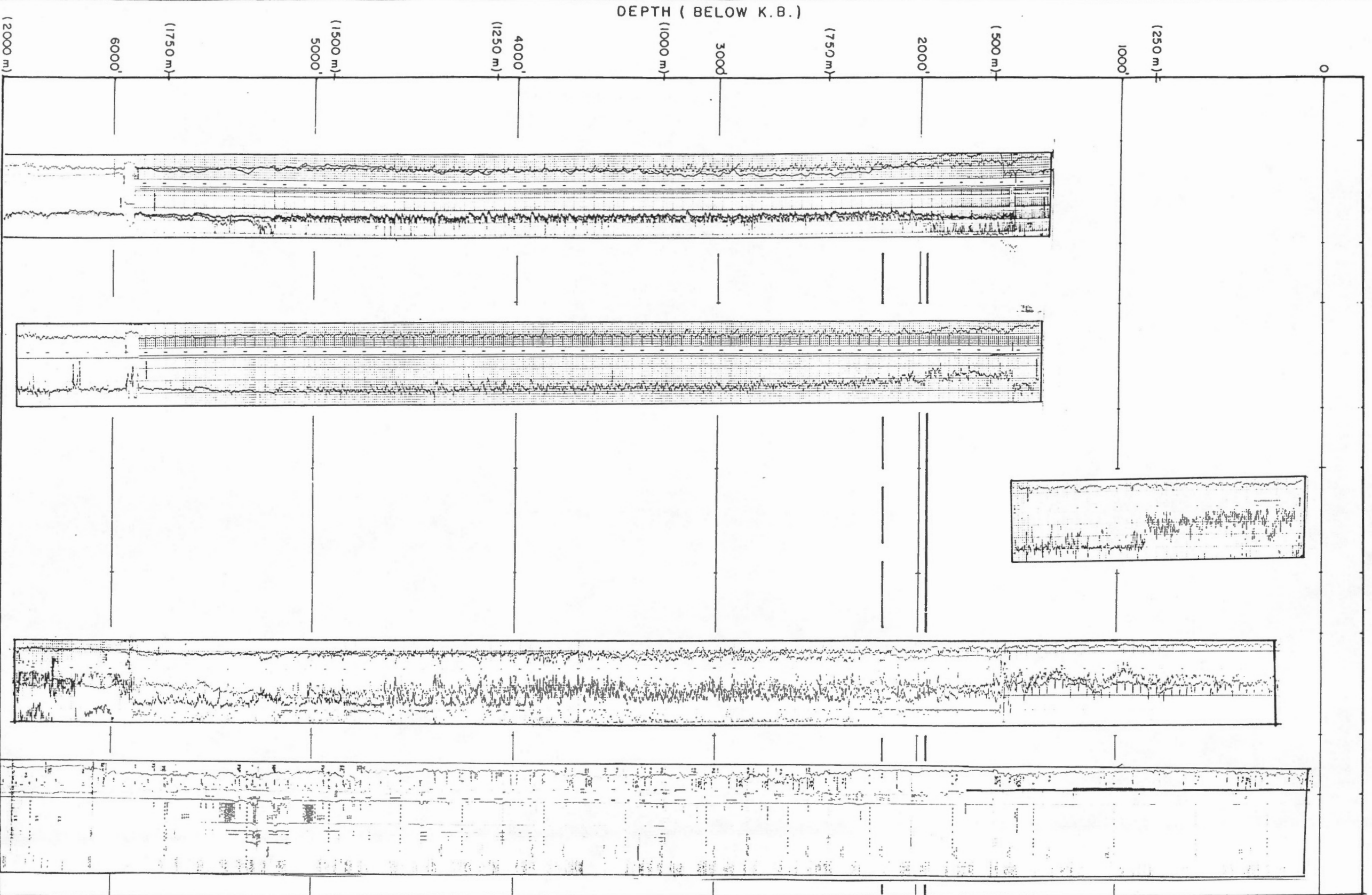
(B)

(C)

(D)

(E)

PERMAFROST /
HYDRATES



IBPF: 1960'
Base Trans: 2210'

No Hydrates Logged

LOGS (LEFT TO RIGHT)

- (A) DILL
- (B) BHCS
- (C) LSS
- (D) CN-FD
- (E) MUD



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PERMAFROST/GAS HYDRATE STUDY

ARCTIC ISLANDS

SOPHIE POINT G-19

CG10095

PLATE 45

(A)

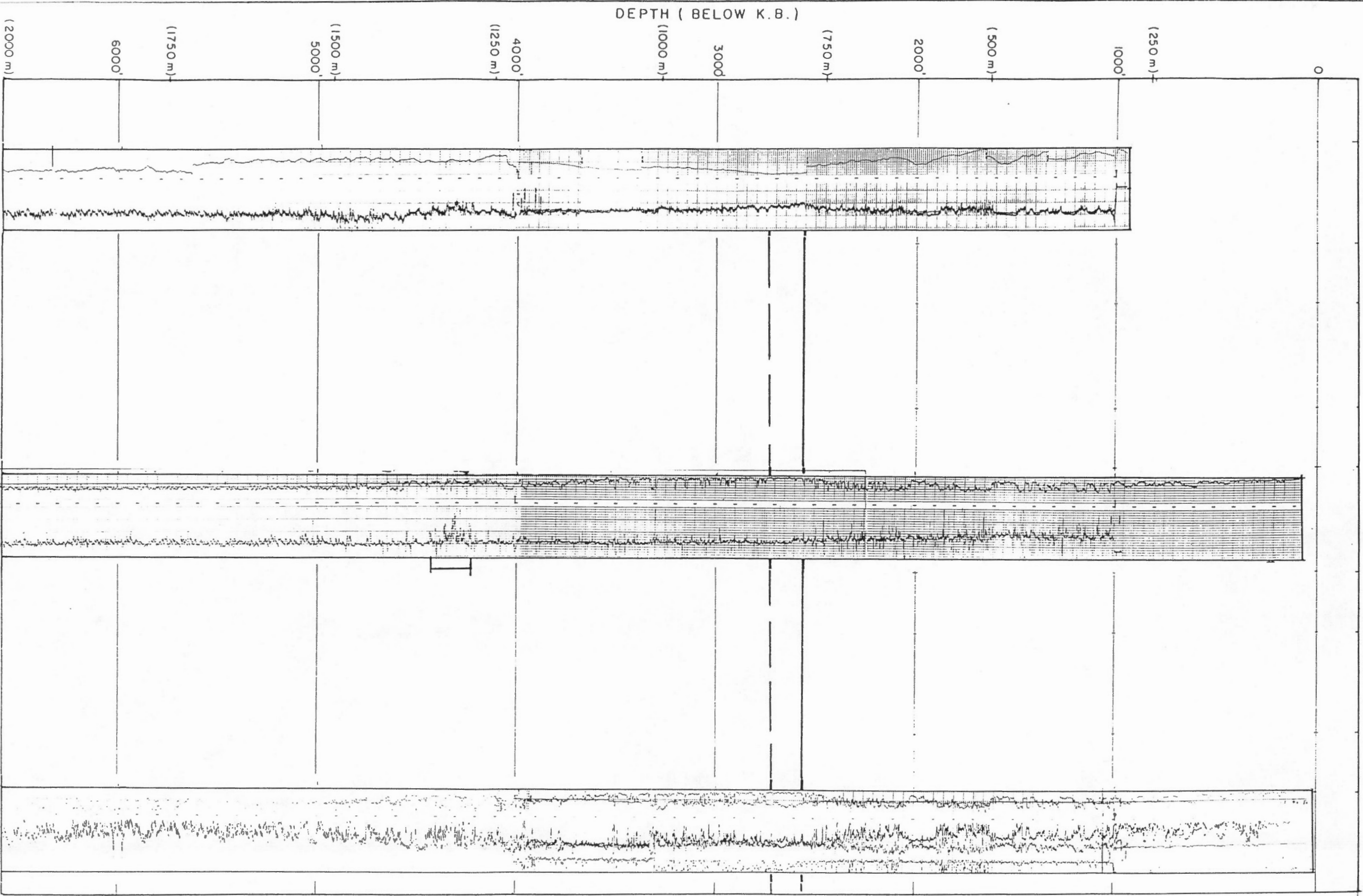
(B)

(C)

(D)

(E)

PERMAFROST /
HYDRATES



IBPF : 2555'
Base Trans : 2725'

Possible Hydrates:
4225' - 4550'

LOGS (LEFT TO RIGHT)

- (A) DILL
- (B) BHCS
- (C) CN-FD
- (D)
- (E)



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PERMAFROST/GAS HYDRATE STUDY

ARCTIC ISLANDS
KEY POINT WEST O-51

CG10095

PLATE 46

(A)

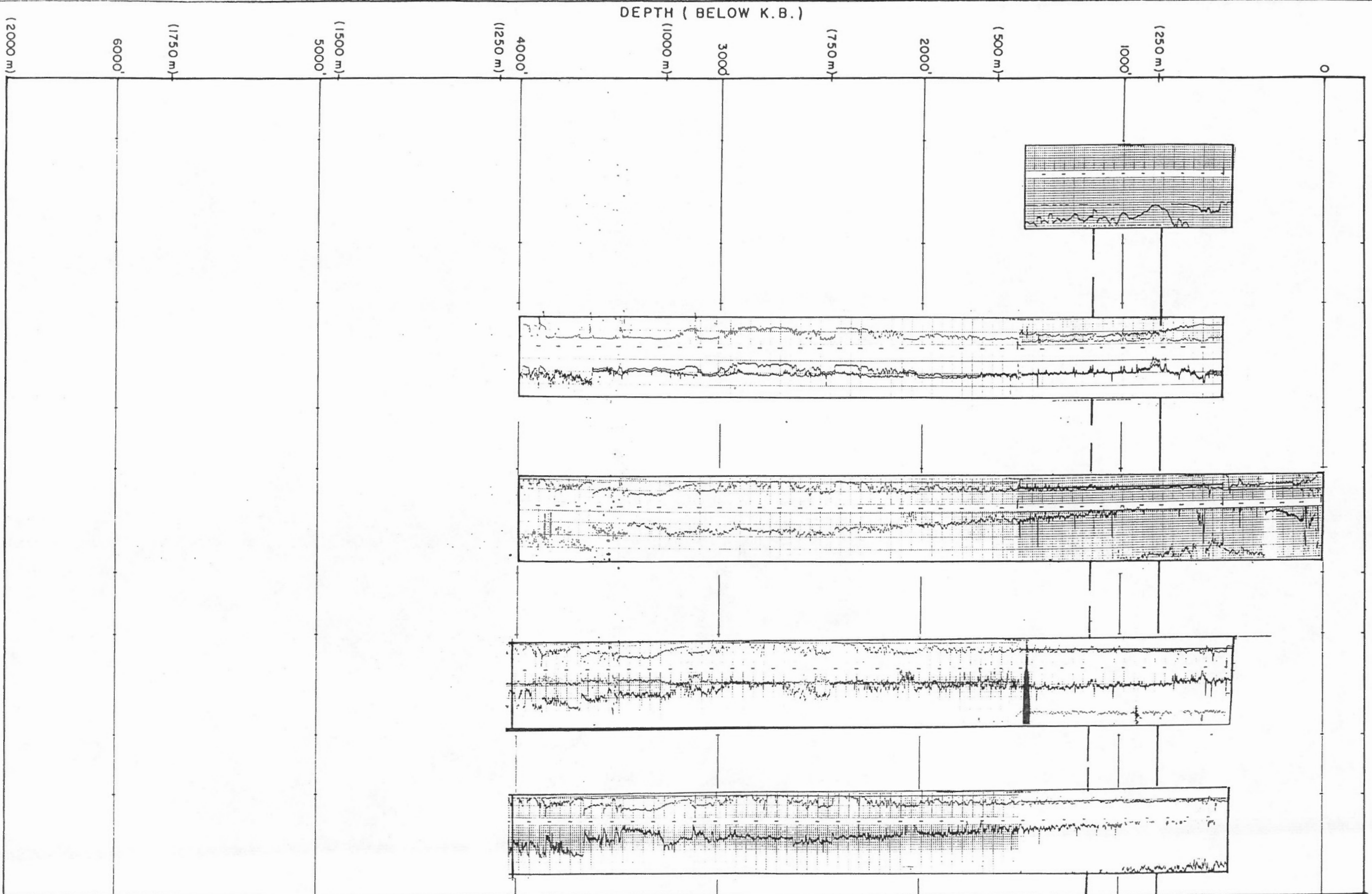
(B)

(C)

(D)

(E)

PERMAFROST /
HYDRATES



1BPF: 815'

Base Trans: 1145'

No Hydrates Logged

LOGS (LEFT TO RIGHT)

- (A) EL
- (B) DILL
- (C) BHCS
- (D) FDEN
- (E) SNP



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PERMAFROST / GAS HYDRATE STUDY

ARCTIC ISLANDS

SHERARD O-54

CG10095

PLATE 47

(A)

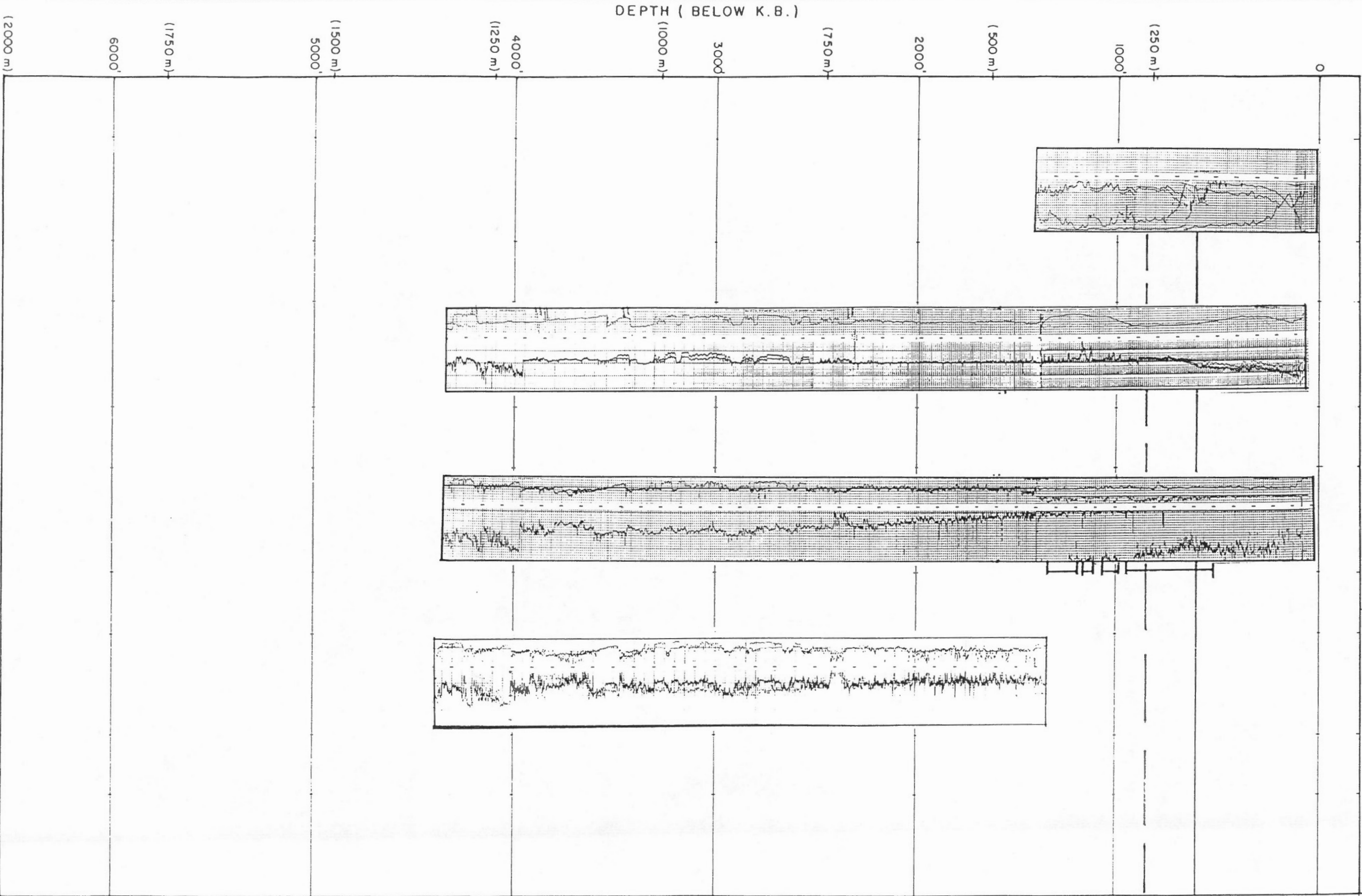
(B)

(C)

(D)

(E)

PERMAFROST /
HYDRATES



1BPF: 600'

Base Trans: 850'

Possible Hydrates:
510' - 1340'

DEPTH (BELOW K.B.)

(2000 m)

6000'

(1750 m)

5000'

(1500 m)

4000'

(1250 m)

(1000 m)

3000'

(750 m)

2000'

(500 m)

1000'

(250 m)

0

LOGS (LEFT TO RIGHT)

(A)

EL

(B)

DILL

(C)

BHCS

(D)

CNFD

(E)



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PERMAFROST / GAS HYDRATE STUDY

ARCTIC ISLANDS

SHERARD BAY F-14

CG10095

PLATE 48

(A)

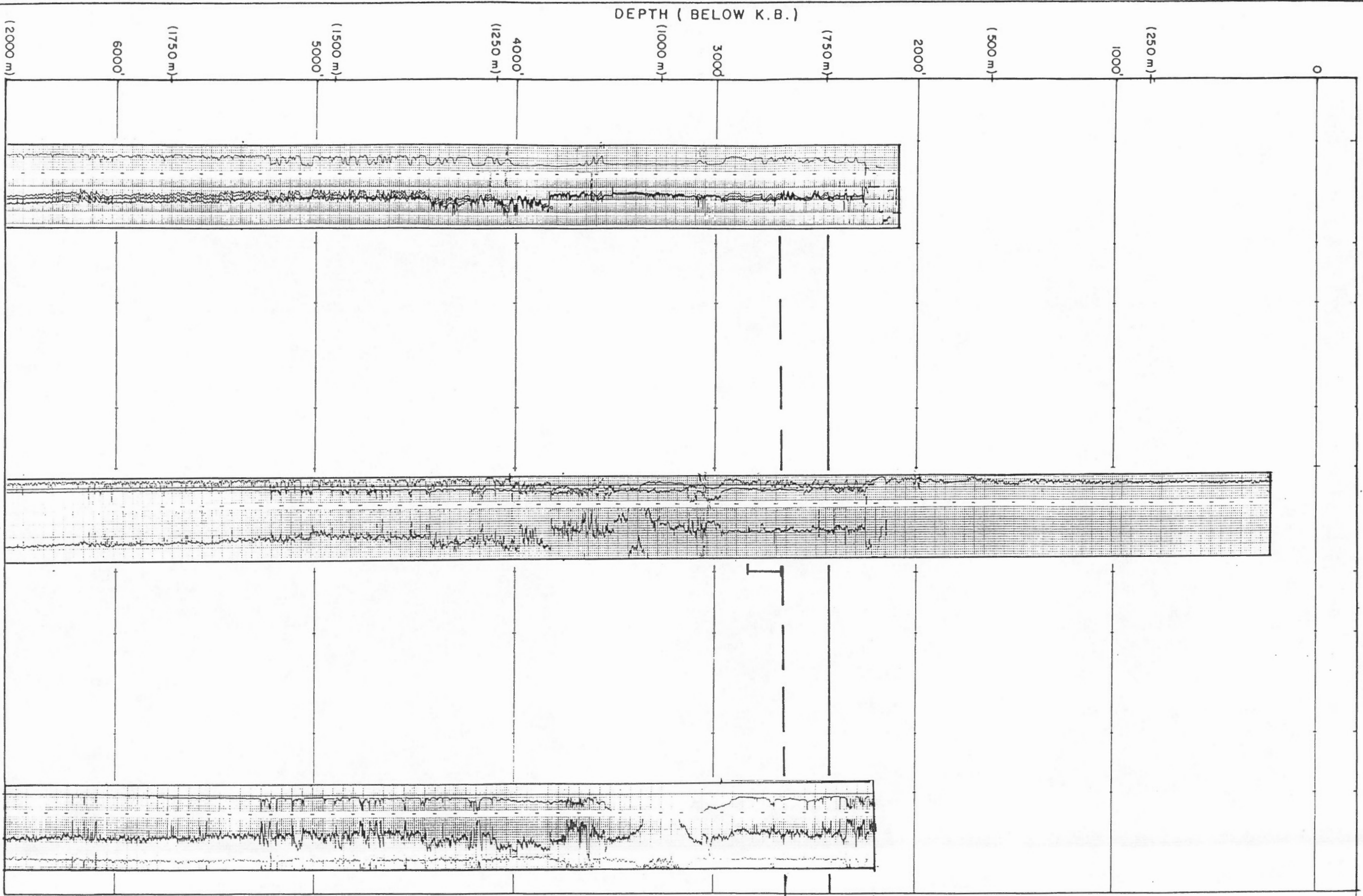
(B)

(C)

(D)

(E)

PERMAFROST /
HYDRATES



1BPF: 2430'
 Base Trans: 2670'
 Possible Hydrates:
 3050' - 3150'

DEPTH (BELOW K.B.)

0
 (250 m)
 1000'
 (500 m)
 2000'
 (750 m)
 3000'
 (1000 m)
 4000'
 (1250 m)
 5000'
 (1500 m)
 6000'
 (1750 m)
 (2000 m)

LOGS (LEFT TO RIGHT)

- (A) DILL
- (B) BHCS
- (C) FDEN
- (D)
- (E)



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PERMAFROST/GAS HYDRATE STUDY

ARCTIC ISLANDS
 HECLA J-60

CG10095

PLATE 49

(A)

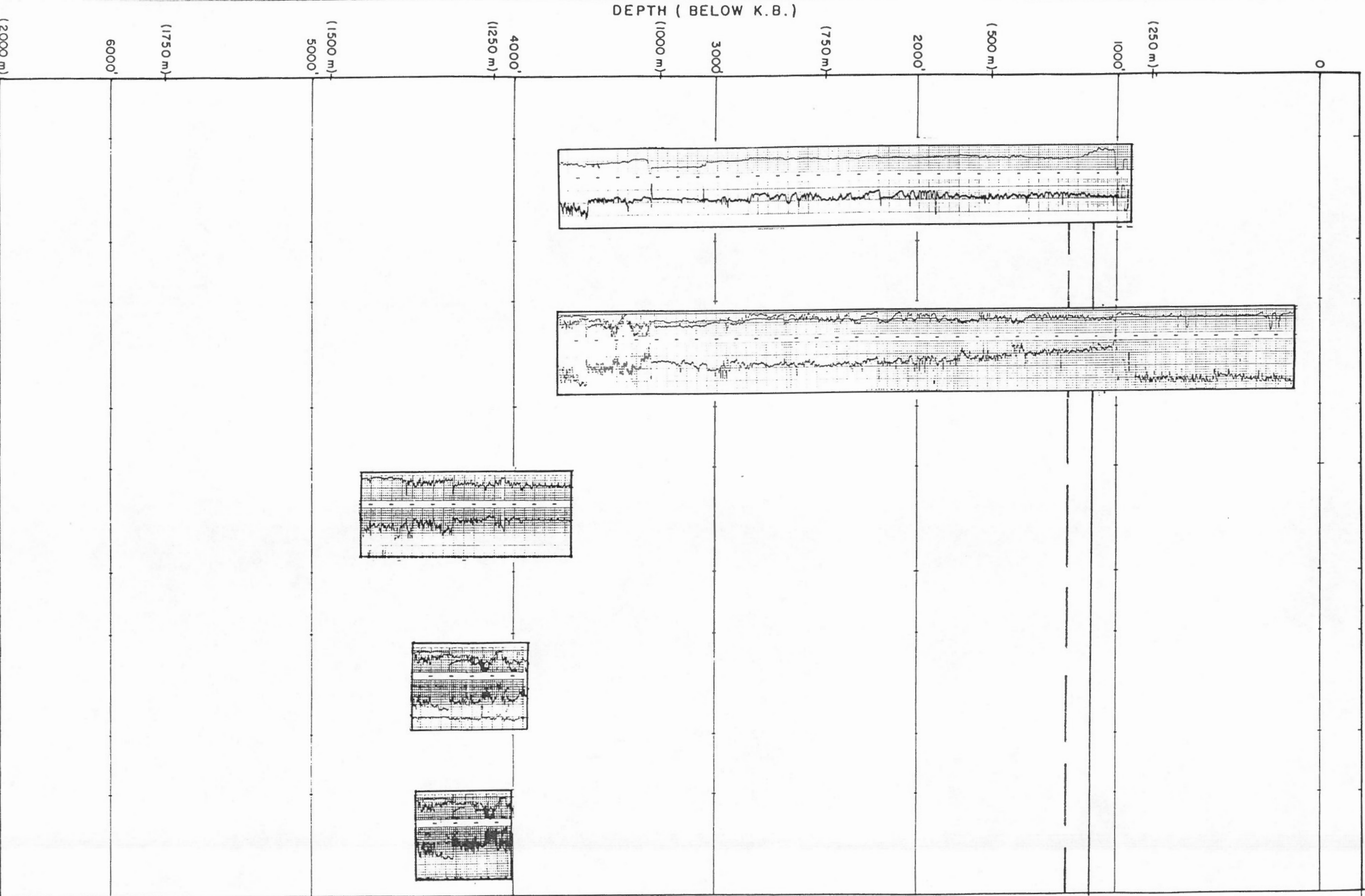
(B)

(C)

(D)

(E)

PERMAFROST /
HYDRATES



E.P.B. 0°C: 453'

IBPF: 1140'

Base Trans: 1250'

No Hydrates Logged

LOGS (LEFT TO RIGHT)

- (A) DILL
- (B) BHCS
- (C) GRN
- (D) FDEN
- (E) SNP



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PERMAFROST/GAS HYDRATE STUDY
ARCTIC ISLANDS
HECLA 1-69

CG10095

PLATE 50

(A)

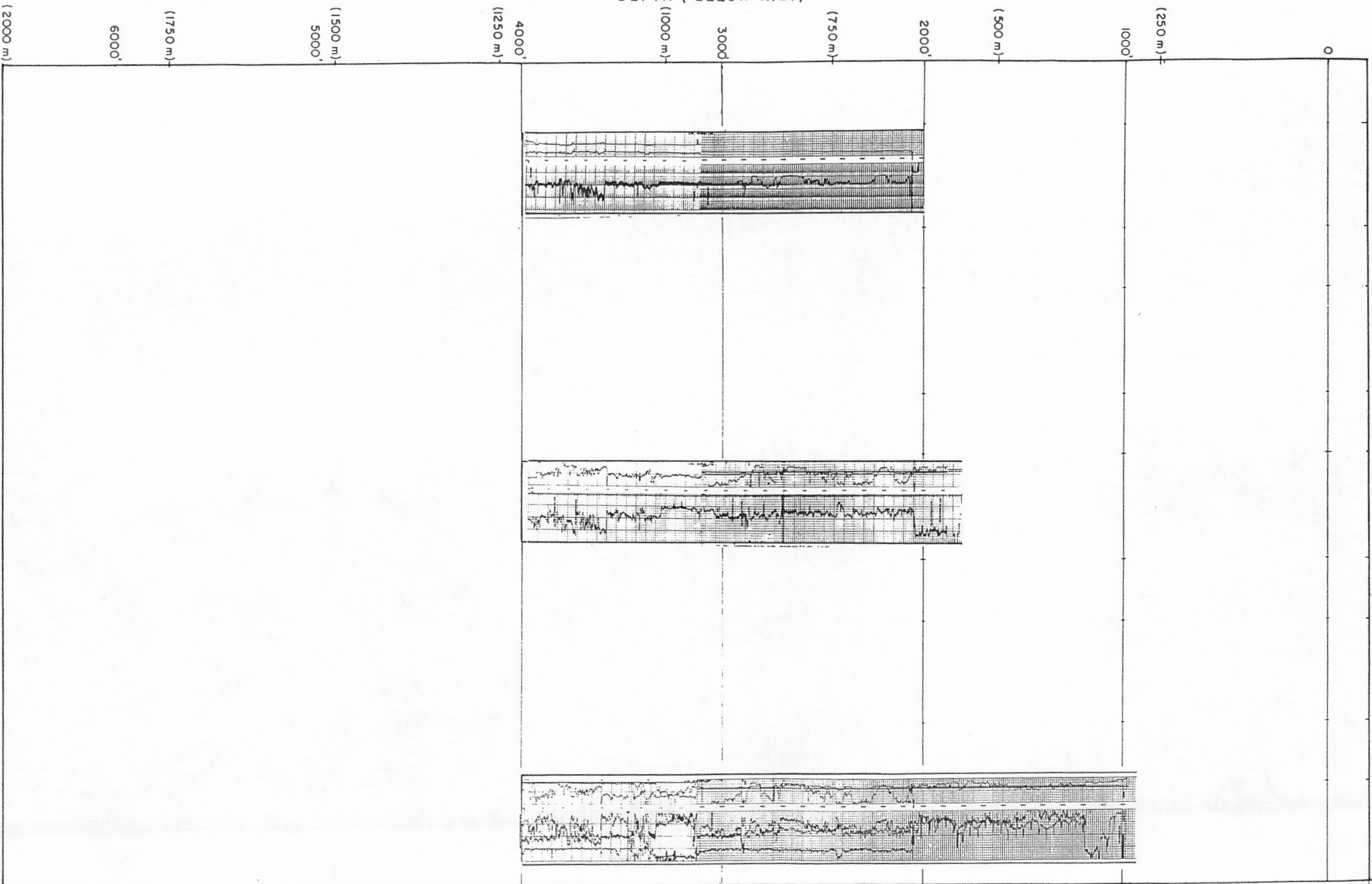
(B)

(C)

(D)

(E)

PERMAFROST /
HYDRATES



IBPF: < 2046
(above Dil1 top)

No Hydrates Logged

(2000 m)

6000'

(1750 m)

(1500 m)
5000'

4000'
(1250 m)

(1000 m)

3000'

(750 m)

2000'

(500 m)

1000'

(250 m)

0

LOGS (LEFT TO RIGHT)

(A) DILL

(B) BHCS

(C) CN-FD

(D)

(E)



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PERMAFROST/GAS HYDRATE STUDY

ARCTIC ISLANDS

S.W. HECLA C-58

CG10095

PLATE 51

(A)

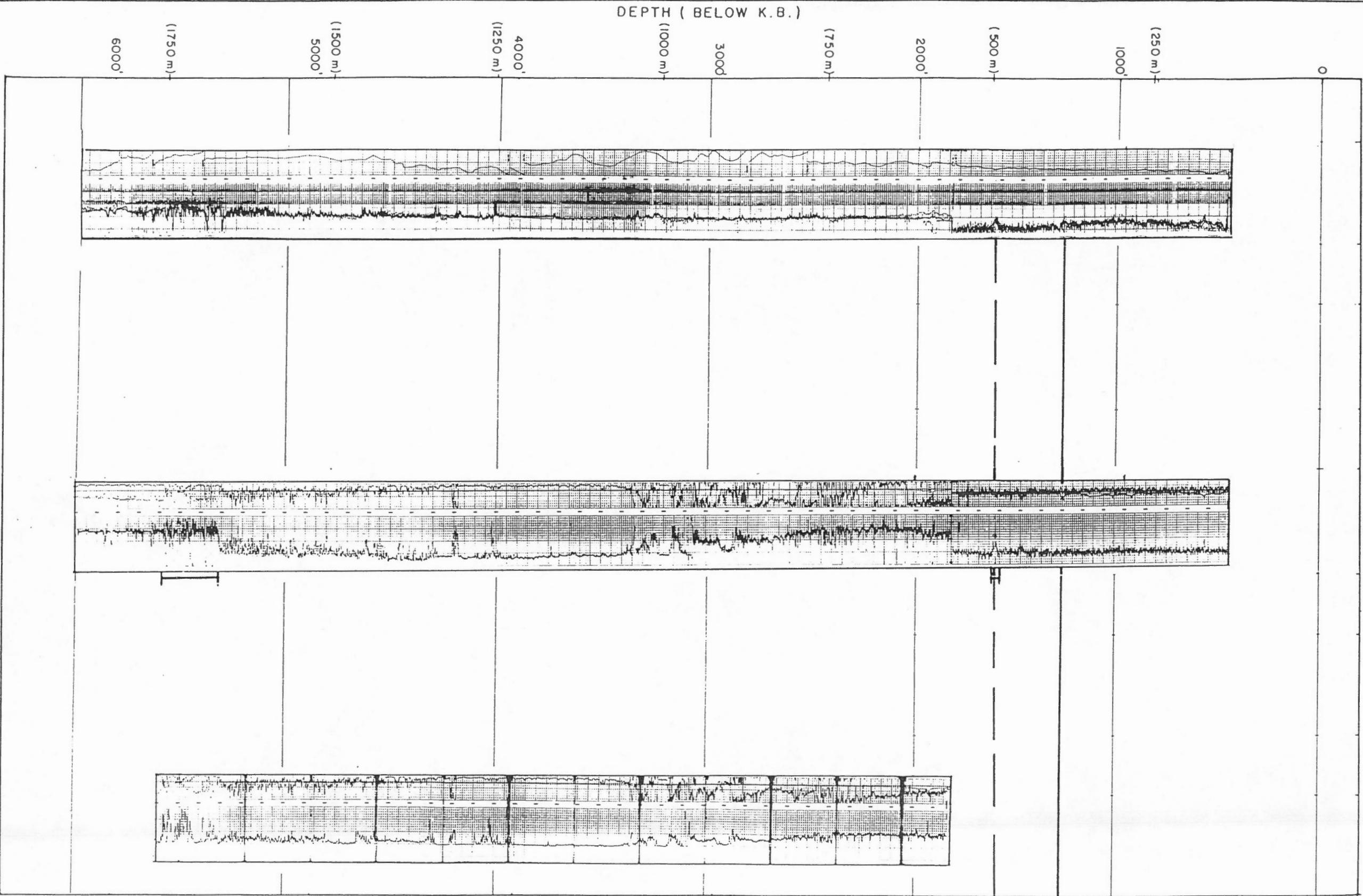
(B)

(C)

(D)

(E)

PERMAFROST
HYDRATES



1BPF: 1310'
 Possible Hydrates:
 1610' - 1630'
 Base Trans: 1625'

Possible Hydrates:
 5310' - 5560'

LOGS (LEFT TO RIGHT)

- (A) DILL
- (B) BHCS
- (C) FDEN
- (D) SNP



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PERMAFROST/GAS HYDRATE STUDY

ARCTIC ISLANDS

YOUNG INLET D-21

CG10095

PLATE 52

A

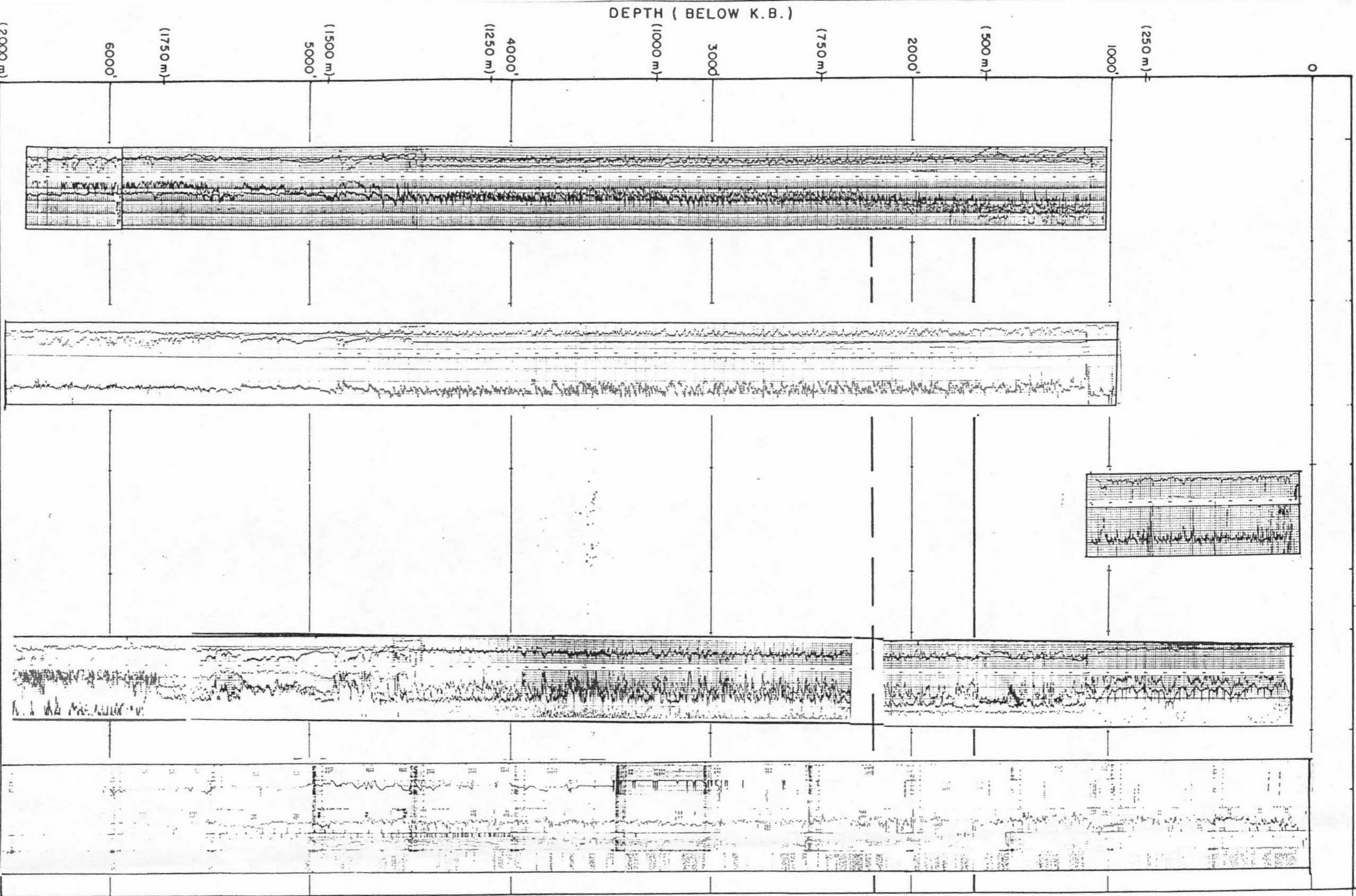
B

C

D

E

PERMAFROST
HYDRATES



? Hydrates:
790' - 820'

PFB: 1710'

Base Trans: 2270'

LOGS (LEFT TO RIGHT)

- A) DLL-MSFL
- B) BHCS
- C) LSS
- D) CNFD
- E) MUD



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PERMAFROST/GAS HYDRATE STUDY
ARCTIC ISLANDS
STOKES RANGE J-11

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PLATE 53

(A)

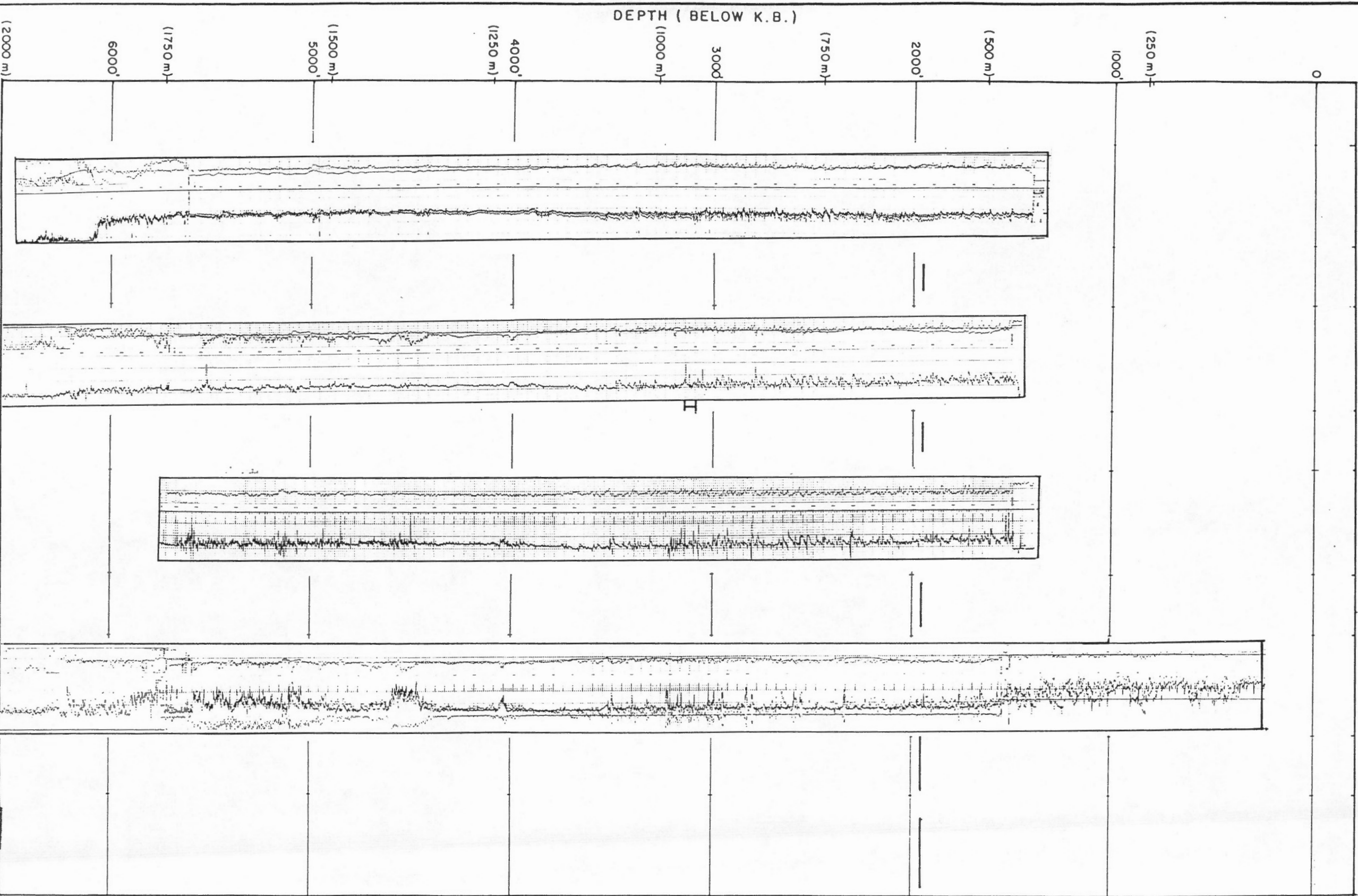
(B)

(C)

(D)

(E)

PERMAFROST
HYDRATES



IBPF: < 1500'

Base Trans: 1960'

Possible Hydrate:
3147' ±

DEPTH (BELOW K.B.)

0
 (250 m)
 1000'
 2000'
 (500 m)
 (750 m)
 3000'
 (1000 m)
 4000'
 (1250 m)
 5000'
 (1500 m)
 (1750 m)
 6000'
 (2000 m)

LOGS (LEFT TO RIGHT)

- (A) DILL
- (B) BHCS
- (C) LSS
- (D) CNFD
- (E)



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PERMAFROST/GAS HYDRATE STUDY
 ARCTIC ISLANDS
 CHARLES POINT G-07

(A)

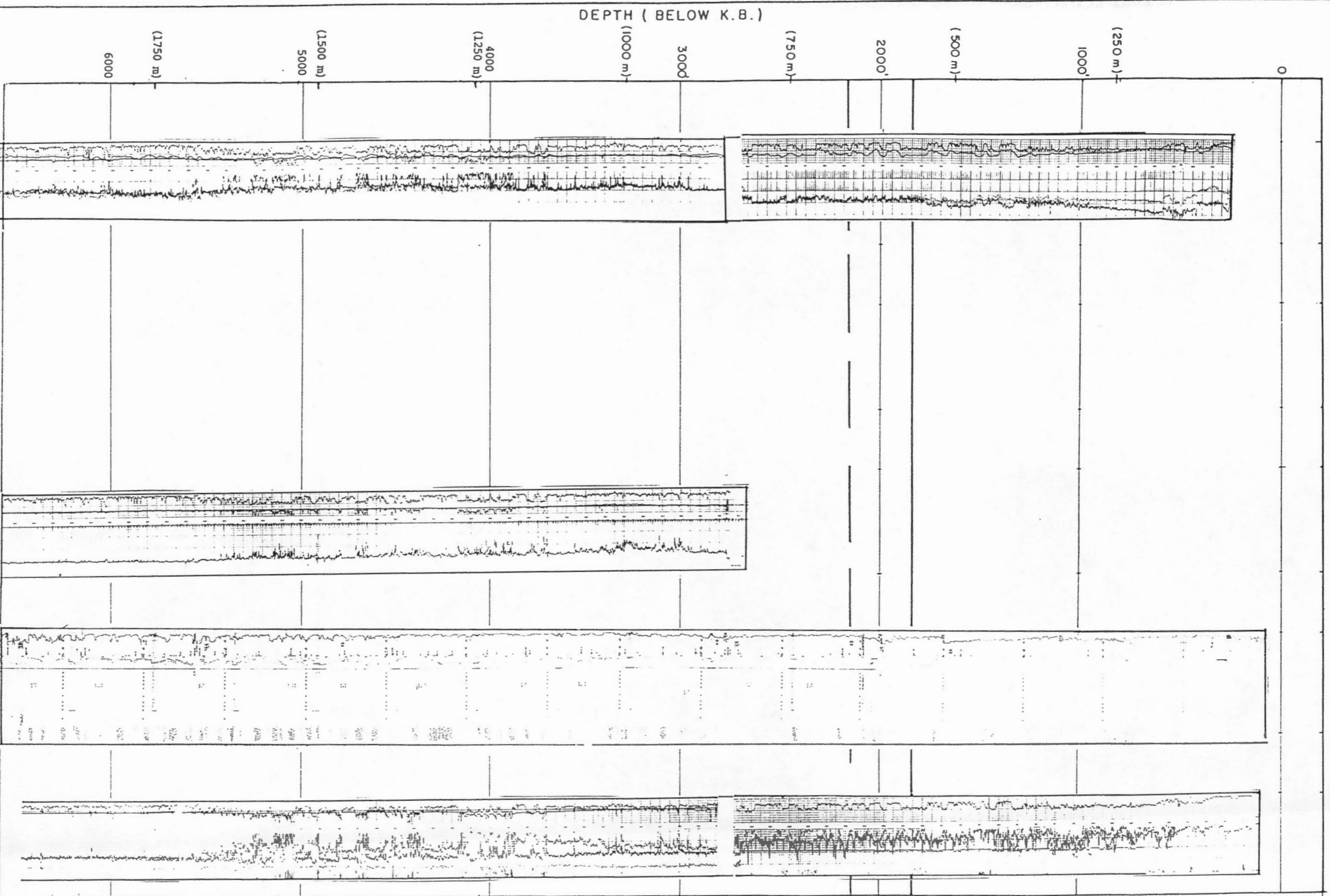
(B)

(C)

(D)

(E)

PERMAFROST /
HYDRATES



1BPF: 1770'
Base Trans: 2165'
No Hydrates Logged

LOGS (LEFT TO RIGHT)

- (A) MSFL - DLL
- (B) BHCS
- (C) MUD
- (D) CN
- (E) FD



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PERMAFROST/GAS HYDRATE STUDY
ARCTIC ISLANDS

BENT HORN A-57

CG10095

PLATE 55

(A)

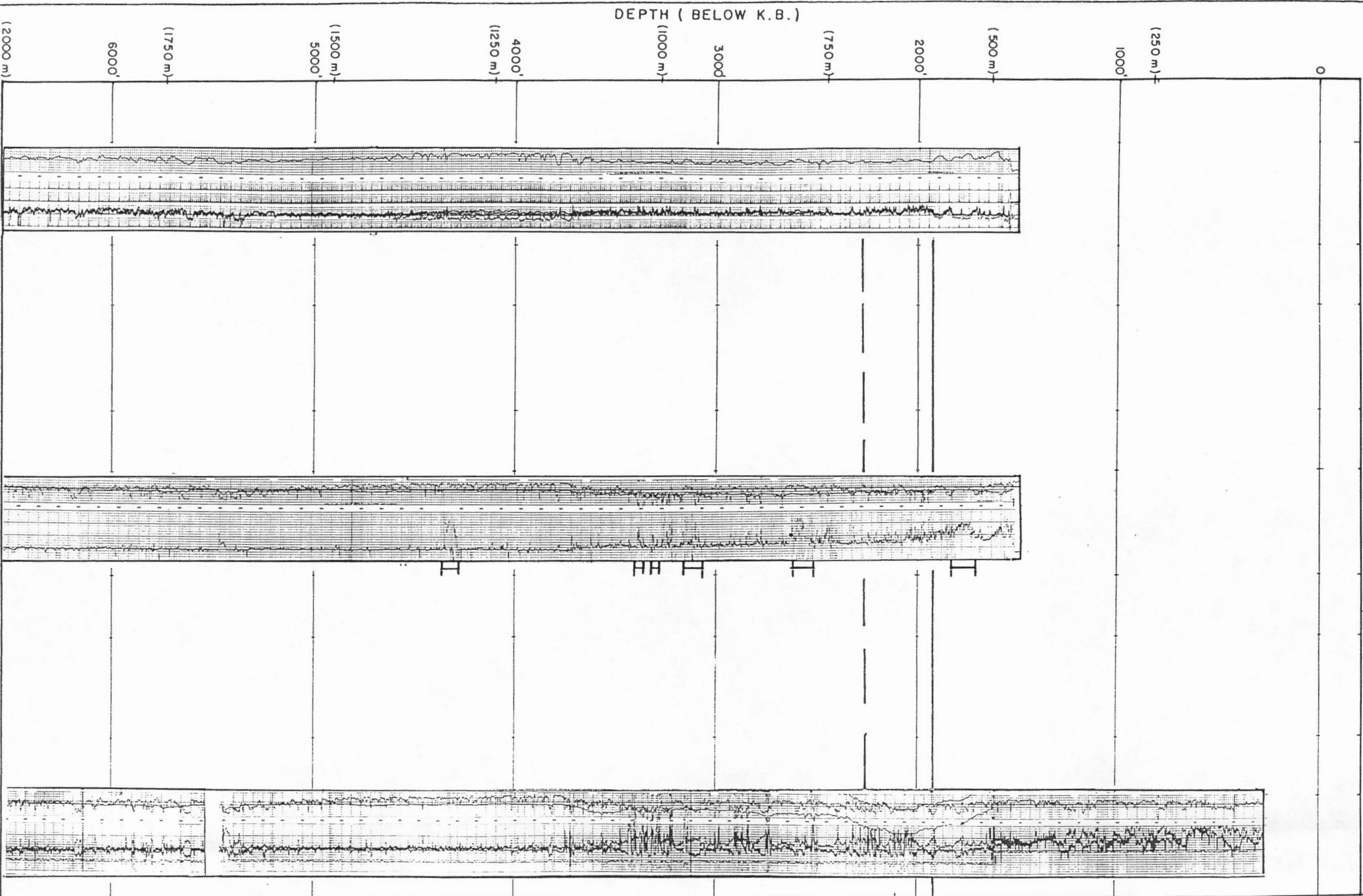
(B)

(C)

(D)

(E)

PERMAFROST /
HYDRATES



Possible Hydrates:
1740' - 1835'

IBPF: 1925

E.P.B. 0°C: 2142'

Base Trans: 2300'

Possible Hydrates:
2560' - 2660'

Possible Hydrates:
3130' - 3415'

Possible Hydrates:
4305' - 4390'

DEPTH (BELOW K.B.)

0
 (250 m) 1000'
 (500 m) 2000'
 (750 m) 3000'
 (1000 m) 4000'
 (1250 m) 5000'
 (1500 m) 6000'
 (1750 m) (2000 m)

LOGS (LEFT TO RIGHT)

- (A) DILL
- (B) BHCS
- (C) CNFD
- (D)
- (E)



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PERMAFROST/GAS HYDRATE STUDY

ARCTIC ISLANDS
 BENT HORN F-72

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PLATE 56

A

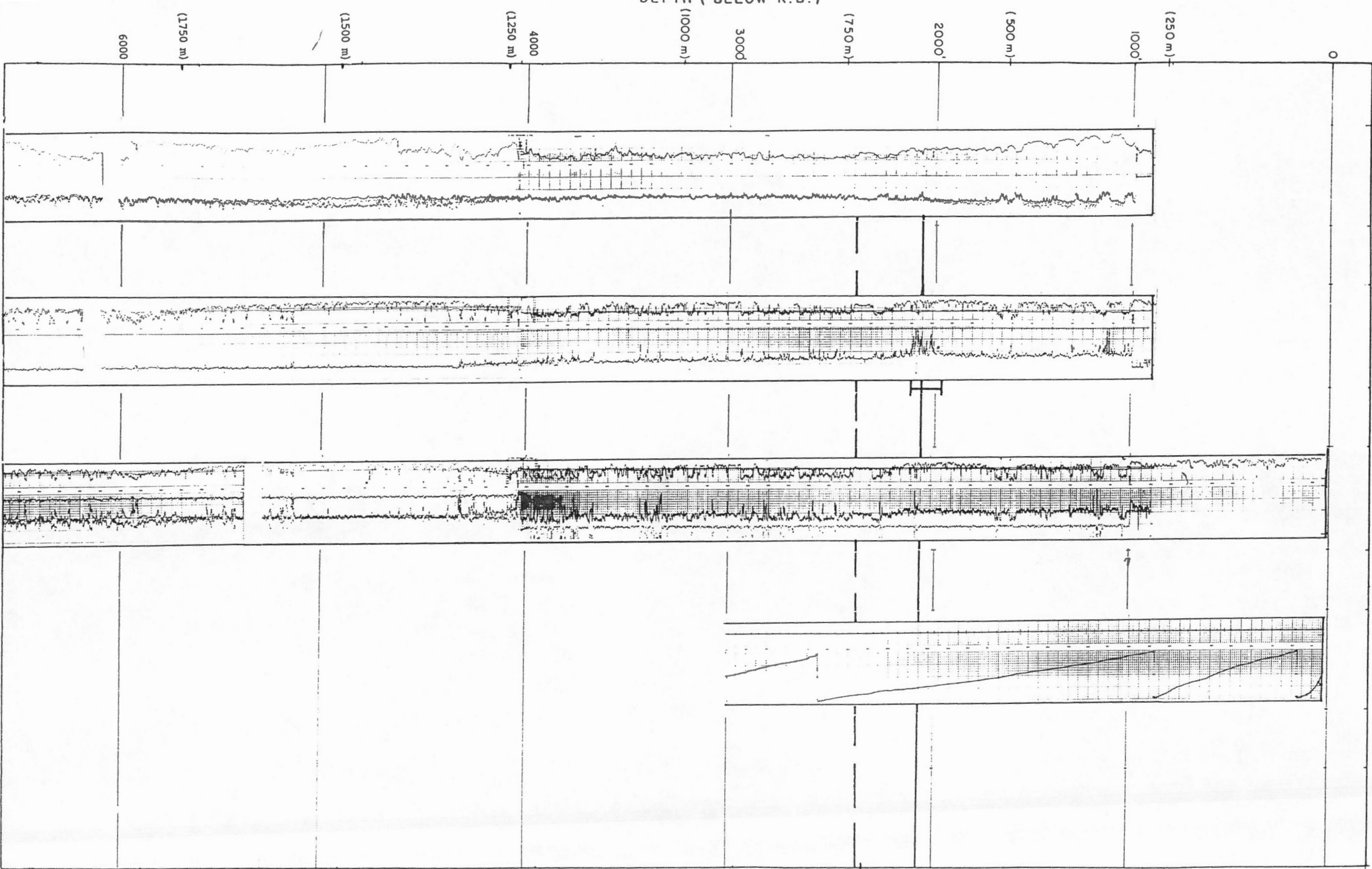
B

C

D

E

PERMAFROST
HYDRATES



? Hydrates:
1960' - 2100'
IBPF: 2065'
E.P.B. 0°C 2356'
Base Trans: 2400'

-OGS (LEFT TO RIGHT)

-) DILL
-) BHCS
-) CN-FD
-) TEMP



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ARCTIC ISLANDS
BENT HORN N-72

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PLATE 57

(A)

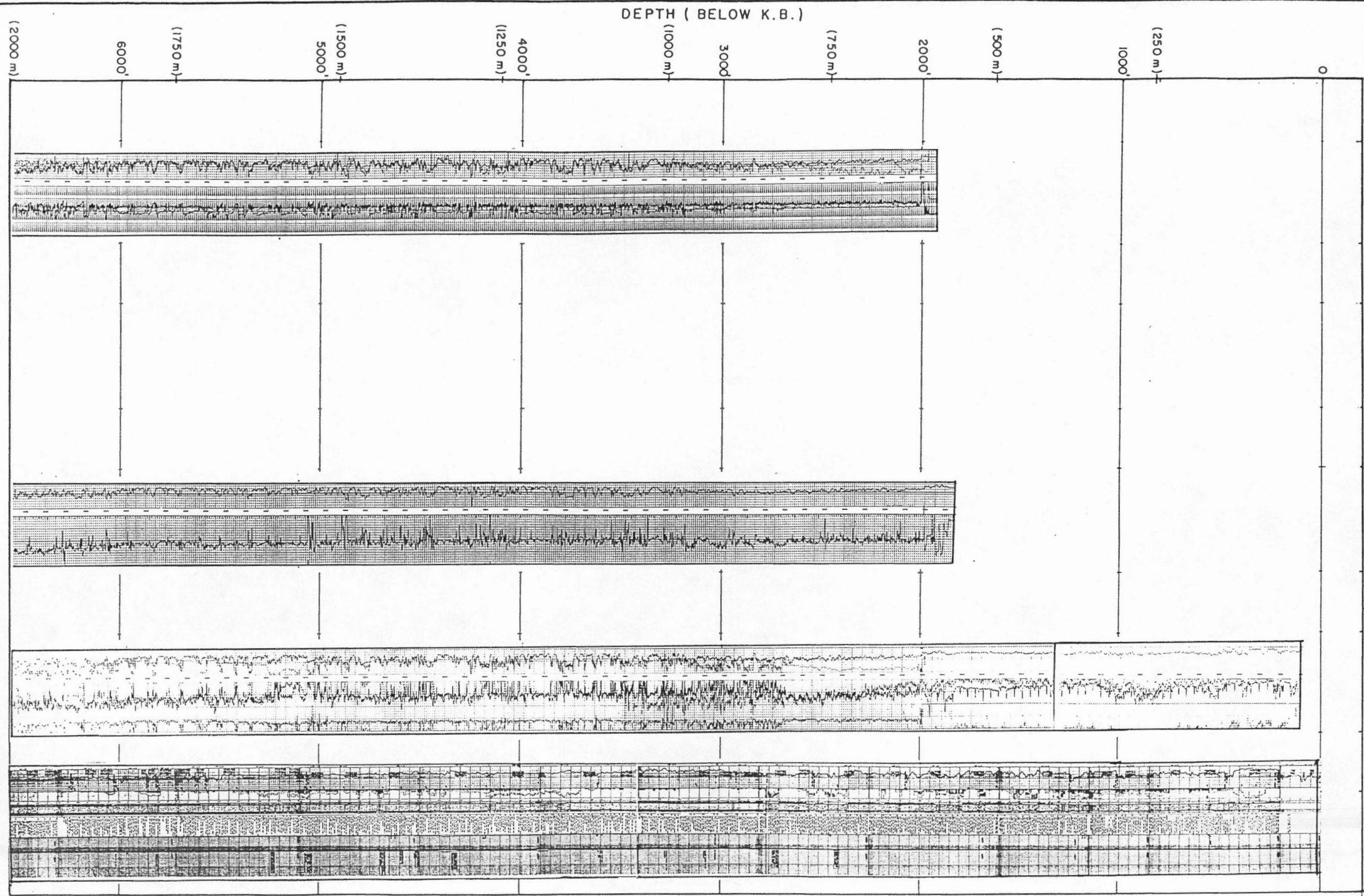
(B)

(C)

(D)

(E)

PERMAFROST /
HYDRATES



PFB: < 2000'

No Evidence of
Hydrates

LOGS (LEFT TO RIGHT)

- (A) DILL
- (B) BHCS
- (C) CNFD
- (D) HUD
- (E)



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PERMAFROST/GAS HYDRATE STUDY

ARCTIC ISLANDS

WEST BENT HORN 1-01/1-01A

CG10095

PLATE 58

A

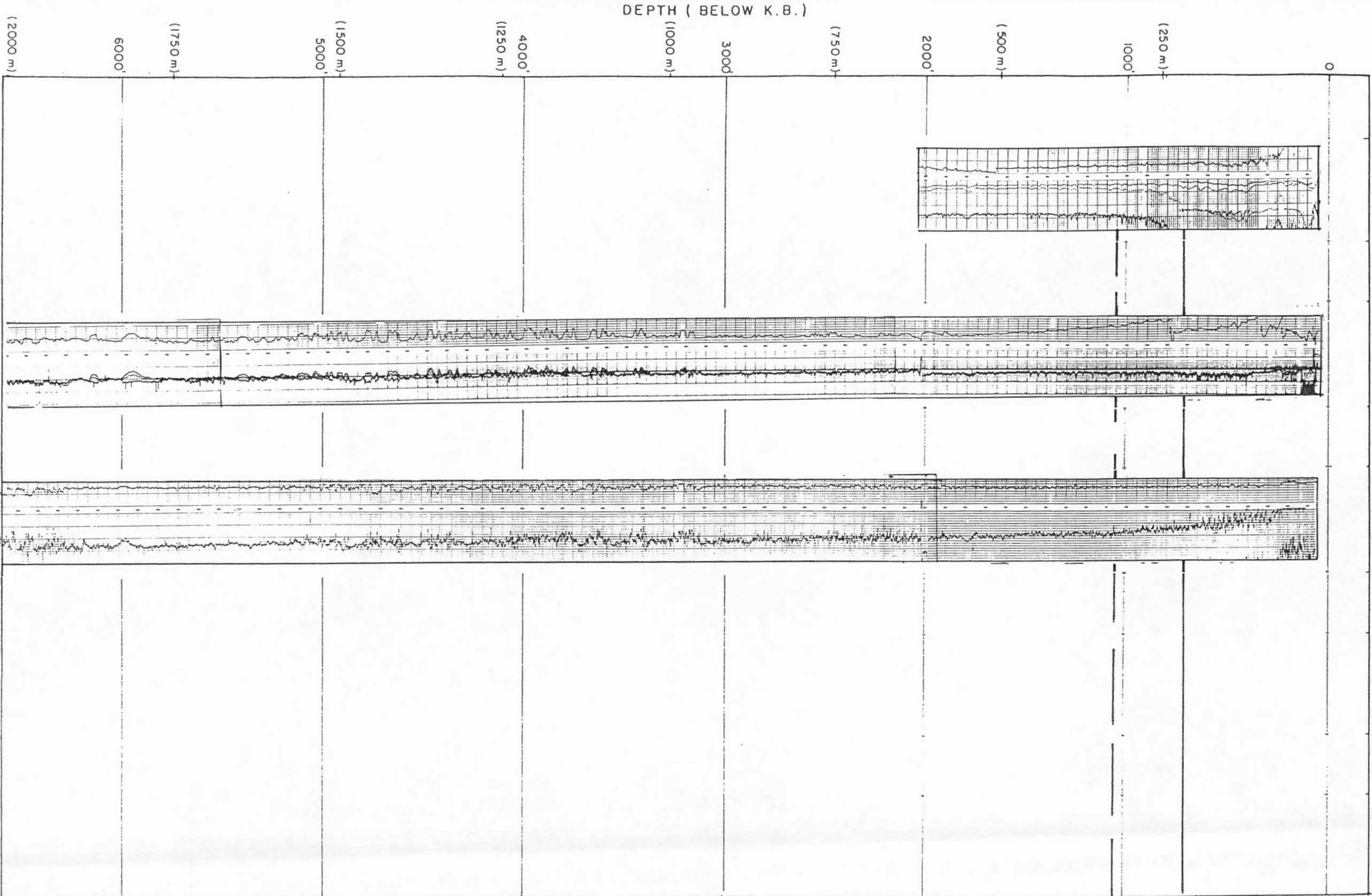
B

C

D

E

PERMAFROST
HYDRATES



1BPF: 735'

Base Trans: 1050'

No Hydrates Logged

LOGS (LEFT TO RIGHT)

- A) EL
- B) DILL
- C) BHCS
- D)
- E)



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PERMAFROST/GAS HYDRATE STUDY
ARCTIC ISLANDS
WEST BENT HORN A-02

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PLATE 59

(A)

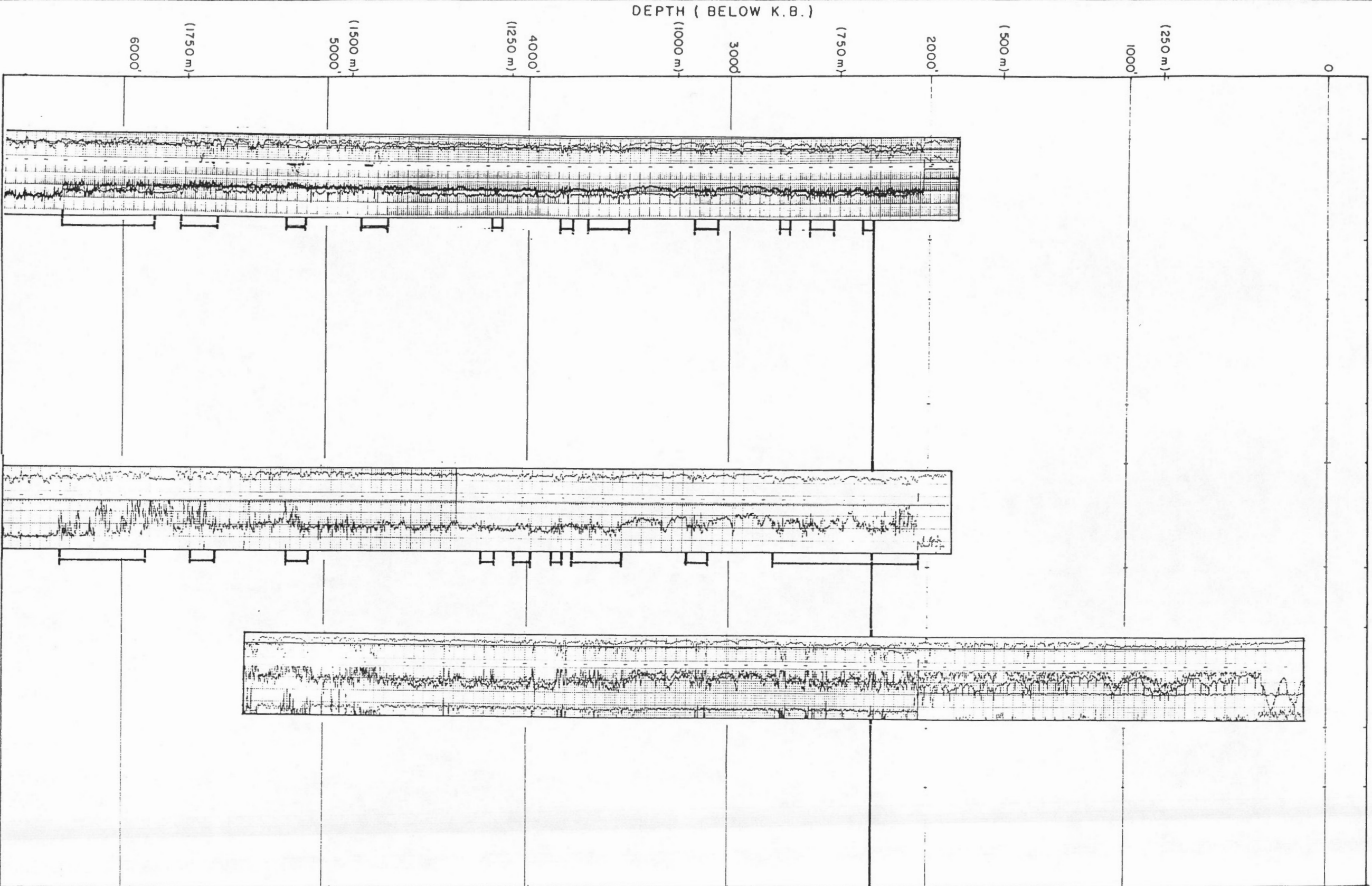
(B)

(C)

(D)

(E)

PERMAFROST /
HYDRATES



1BPF: 2280'

Possible Hydrates:
2030' - 2750'

Possible Hydrates:
3080' - 3180'

Possible Hydrates:
3500' - 4190'

Possible Hydrates:
5100' - 6310'

LOGS (LEFT TO RIGHT)

(A) DILL-MSFL

(B) BHCS

(C) CN-FD

(E)



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PERMAFROST / GAS HYDRATE STUDY

ARCTIC ISLANDS

WEST BENT HORN M-12

CG10095

PLATE 60

(A)

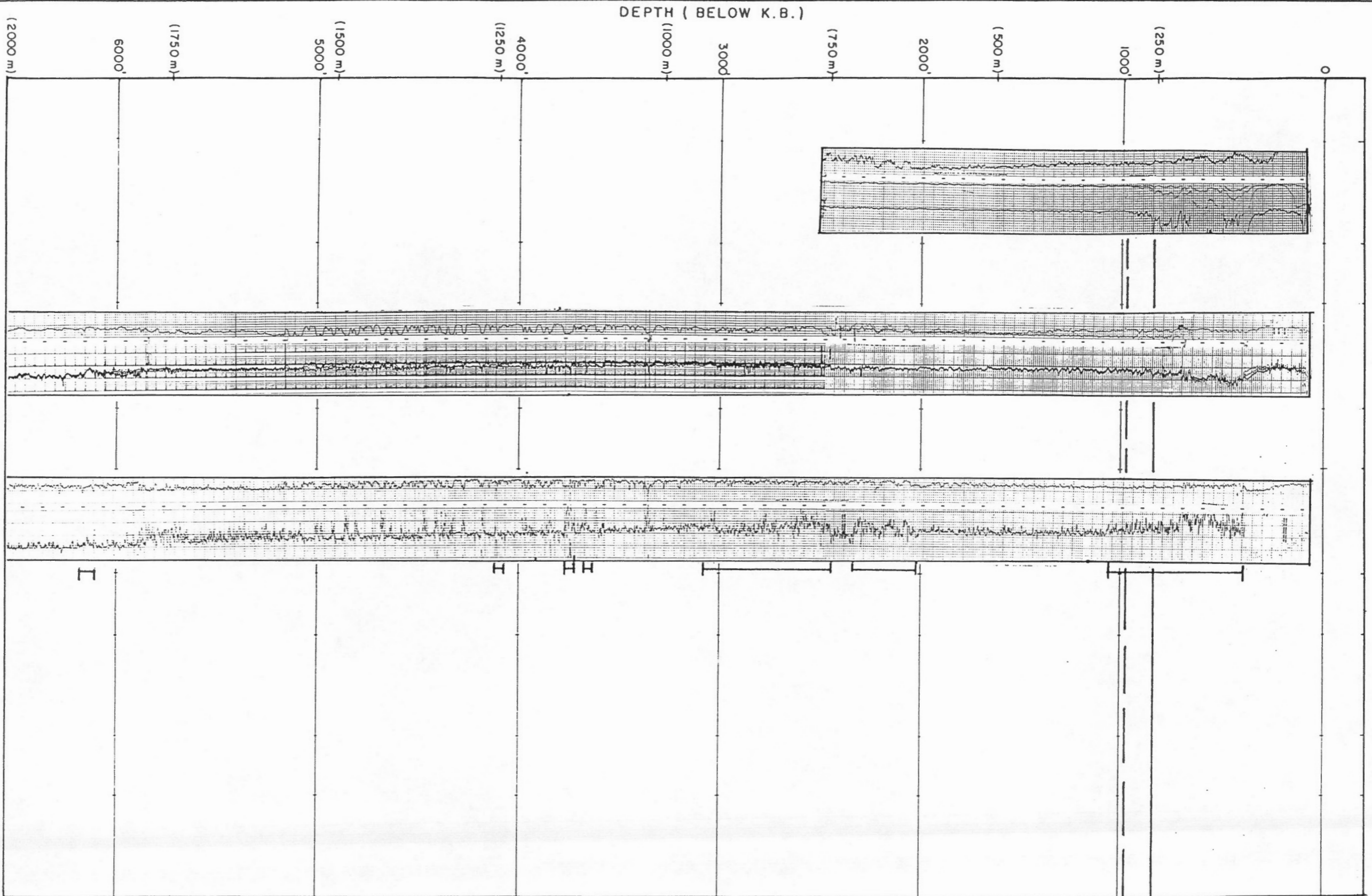
(B)

(C)

(D)

(E)

PERMAFROST /
HYDRATES



Possible Hydrates:
390' - 1080'

IBPF: 860'
Base Trans: 980'

Possible Hydrates:
2040' - 3120'

Possible Hydrates:
3700' - 4150'
(Scattered)

Possible Hydrates
6150' - 6200'

I

I

H

H

H

LOGS (LEFT TO RIGHT)

- (A) EL
- (B) DILL
- (C) BHCS
- (D)
- (E)



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PERMAFROST / GAS HYDRATE STUDY
ARCTIC ISLANDS
WEST BENT HORN E-43

CG10095

PLATE 61

(A)

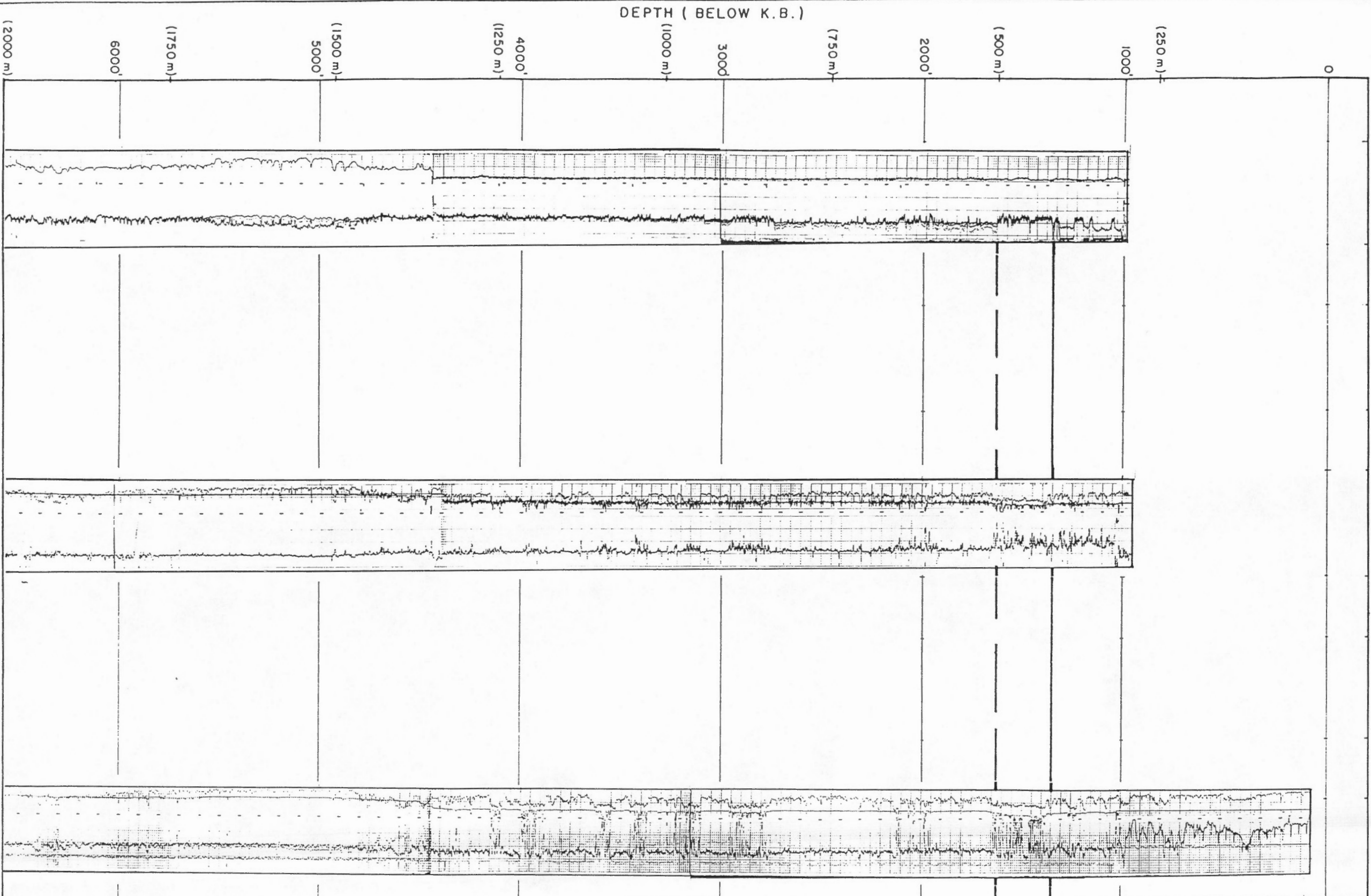
(B)

(C)

(D)

(E)

PERMAFROST
HYDRATES



18PF: 1375'
Base Trans: 1640'
No Hydrates Logged

LOGS (LEFT TO RIGHT)

- (A) DILL
- (B) BHCS
- (C) CN-FD
- (D)
- (E)



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PERMAFROST/GAS HYDRATE STUDY
ARCTIC ISLANDS
PYM POINT C-44

CG10095

PLATE 62

(A)

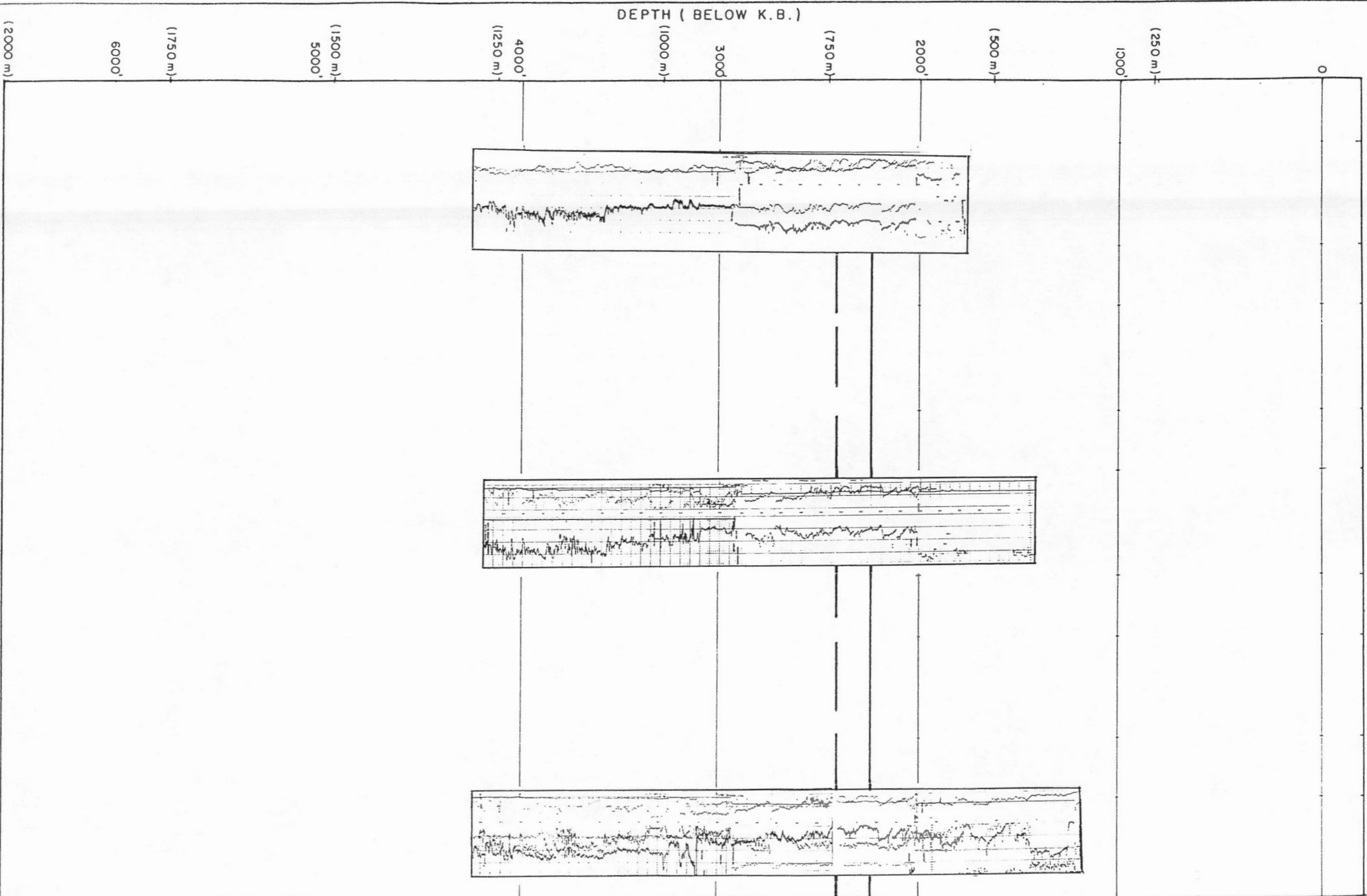
(B)

(C)

(D)

(E)

PERMAFROST
HYDRATES



LOGS (LEFT TO RIGHT)

- (A) DILL
- (B) BHCS
- (C) BHCS
- (D) CN-FD
- (E) CN-FD



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PERMAFROST/GAS HYDRATE STUDY
ARCTIC ISLANDS
N.E. DRAKE P-40

CG10095

PLATE 63

(A)

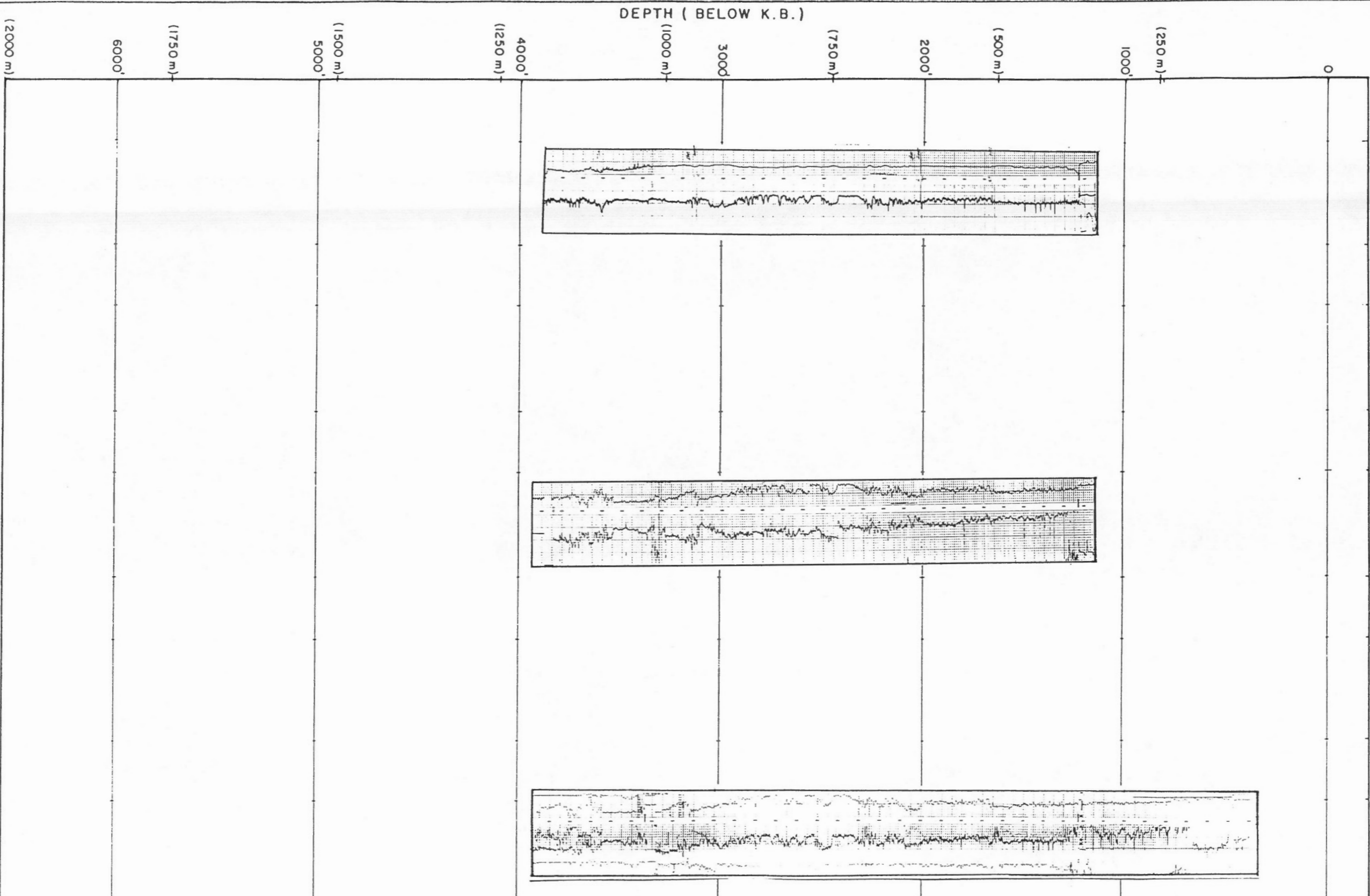
(B)

(C)

(D)

(E)

PERMAFROST
HYDRATES



IBPF: < 1227'
(above log tops)

No Hydrates Logged

DEPTH (BELOW K.B.)

0
 (250 m)
 1000'
 (500 m)
 2000'
 (750 m)
 3000'
 (1000 m)
 4000'
 (1250 m)
 5000'
 (1500 m)
 6000'
 (1750 m)
 (2000 m)

LOGS (LEFT TO RIGHT)

- (A) DILL
- (B) BHCS
- (C)
- (D)
- (E) CNFD



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PERMAFROST / GAS HYDRATE STUDY

ARCTIC ISLANDS

EAST DRAKE 1-55

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PLATE 64

(A)

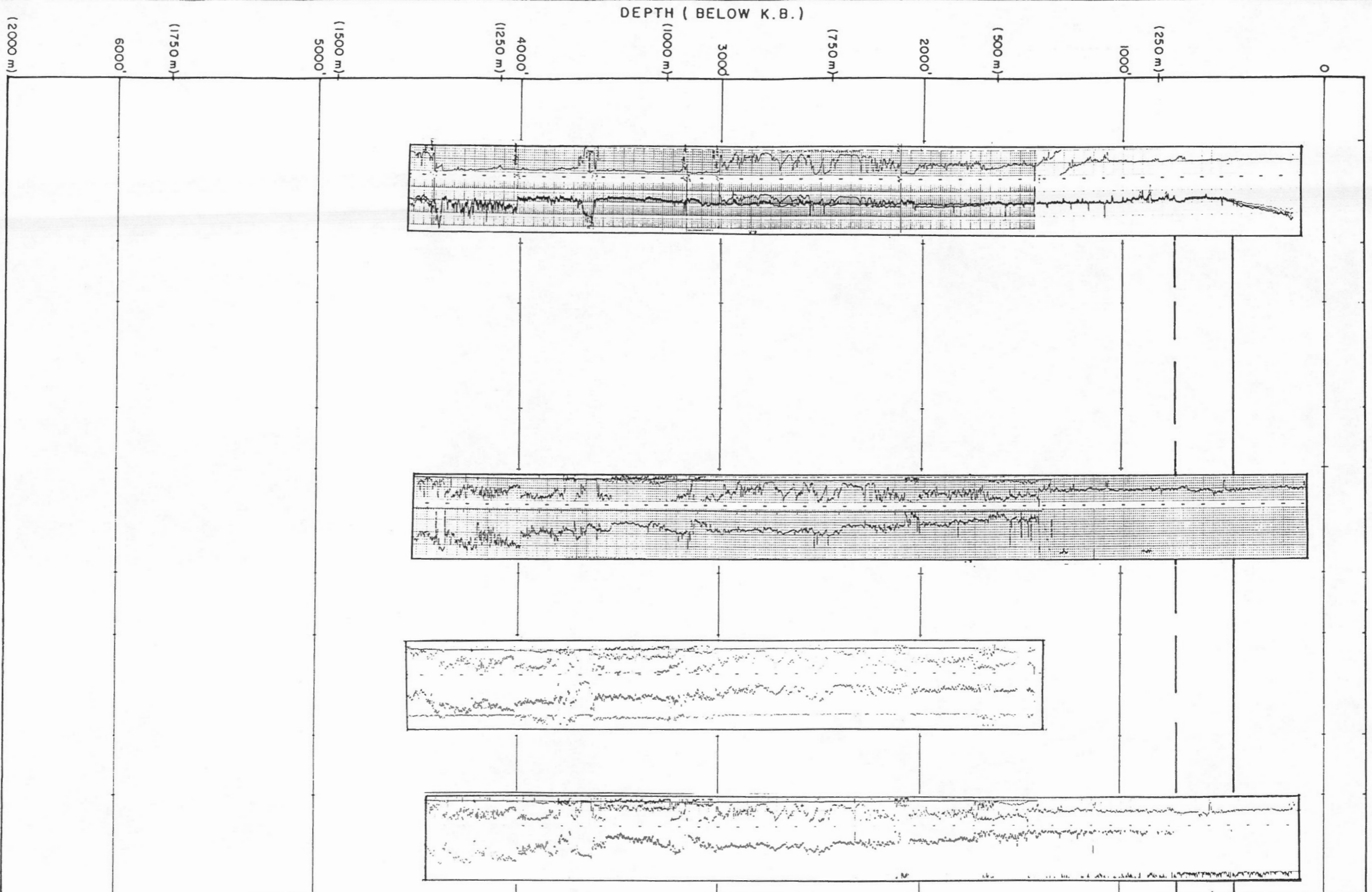
(B)

(C)

(D)

(E)

PERMAFROST
HYDRATES



IBPF: 430'

E.P.B. 0°C: 581'

Base Trans: 735'

No Hydrates Logged

LOGS (LEFT TO RIGHT)

- (A) DILL
- (B) BHCS
- (C) FDEN
- (D) SNP
- (E)



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PERMAFROST/GAS HYDRATE STUDY

ARCTIC ISLANDS

DRAKE B-44

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PLATE 65

(A)

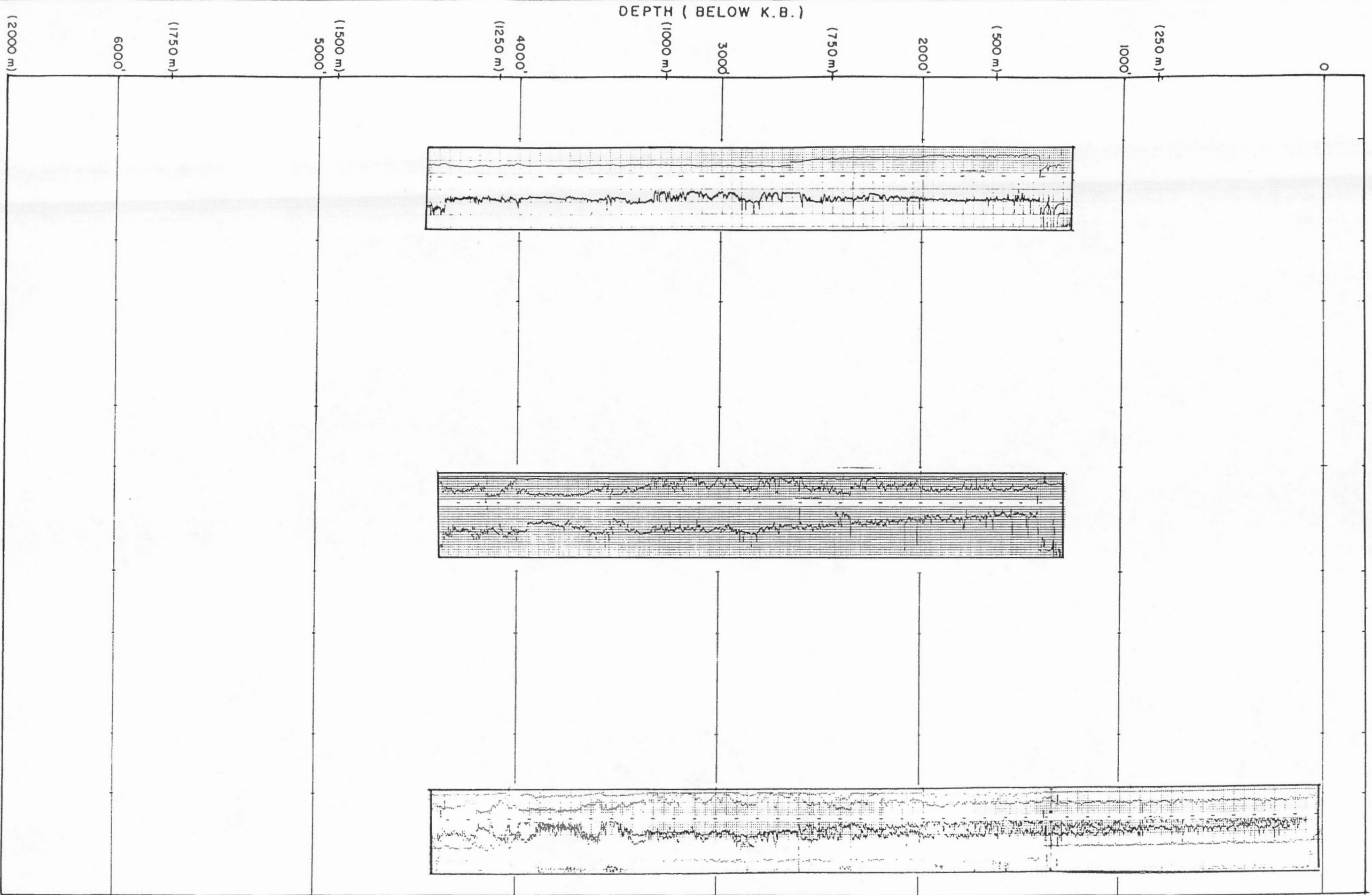
(B)

(C)

(D)

(E)

PERMAFROST /
HYDRATES



IBPF: above log
tops (1416')

No Hydrates Logged

LOGS (LEFT TO RIGHT)

- (A) DILL
- (B) BHCS
- (C) CNFD
- (D)
- (E)



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PERMAFROST/GAS HYDRATE STUDY

ARCTIC ISLANDS

SOUTH DRAKE D-73

CG10095

PLATE 66

(A)

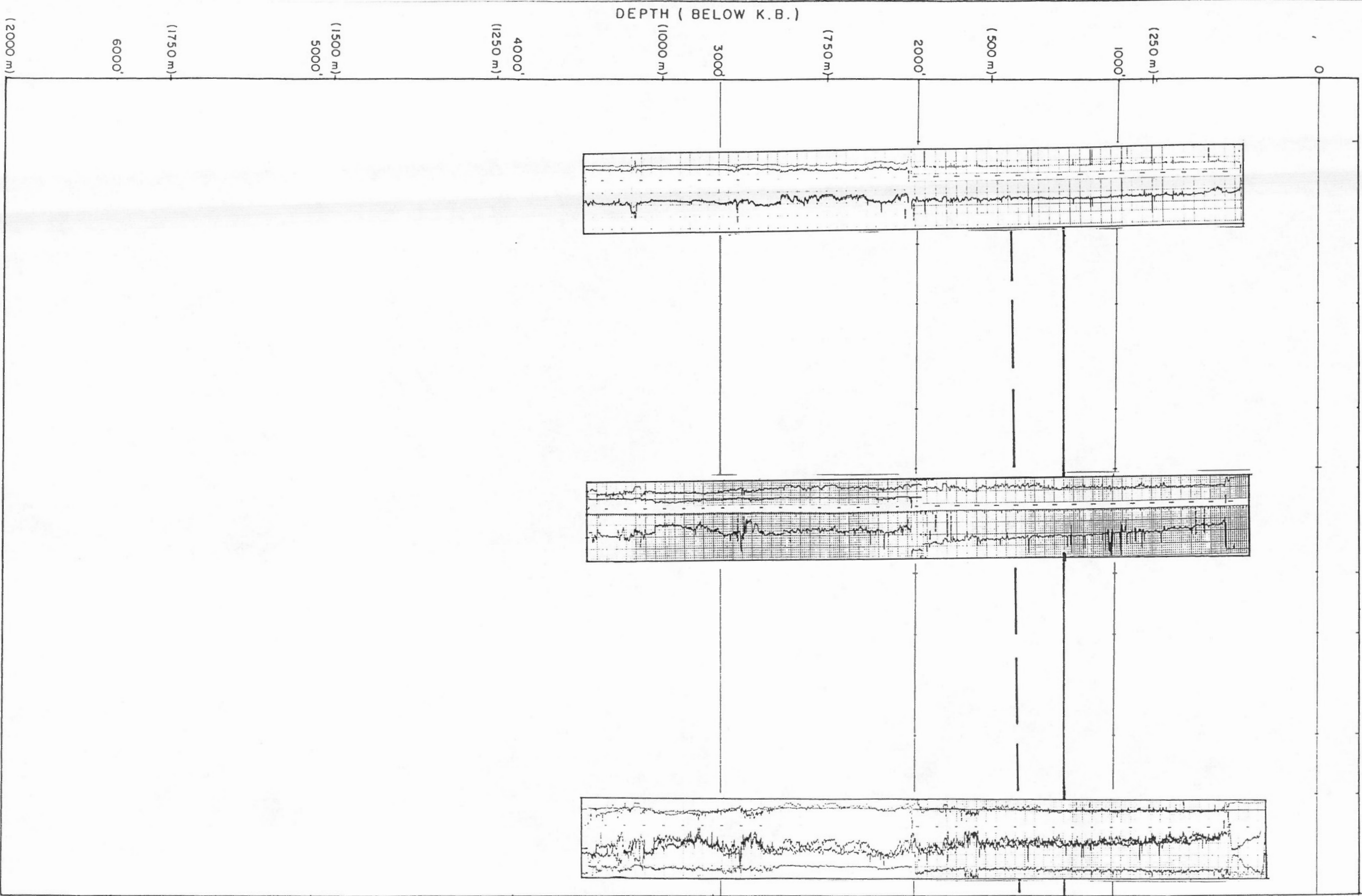
(B)

(C)

(D)

(E)

PERMAFROST /
HYDRATES



IBPF : 1300'
Base Trans : 1540'

No Hydrates Logged

(2000 m)

LOGS (LEFT TO RIGHT)

- (A) DILL
- (B) BHCS
- (C) CN-FD
- (D)
- (E)



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PERMAFROST/GAS HYDRATE STUDY
ARCTIC ISLANDS
DRAKE F-16

CG10095

PLATE 67

A

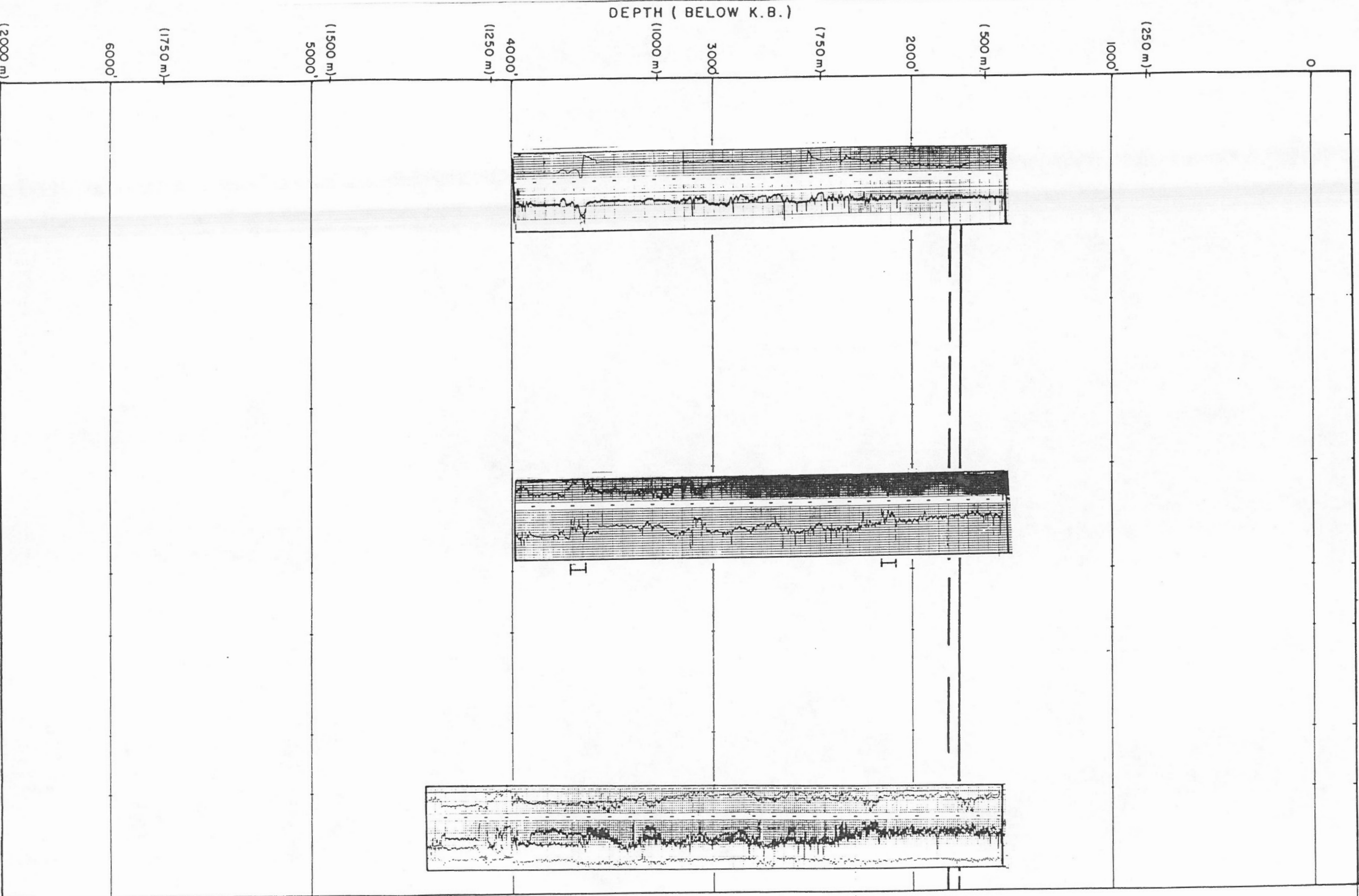
B

C

D

E

PERMAFROST /
HYDRATES



IBPF: 1740'

Base Trans: 1810'

Possible Hydrates:
2070' - 2140'

Possible Hydrates:
3640' - 3710'

LOGS (LEFT TO RIGHT)

- (A) DILL
- (B) BHCS
- (C) CNFD
- (D)
- (E)



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PERMAFROST/GAS HYDRATE STUDY

ARCTIC ISLANDS
DRAKE E-78

CG10095

PLATE 68

(A)

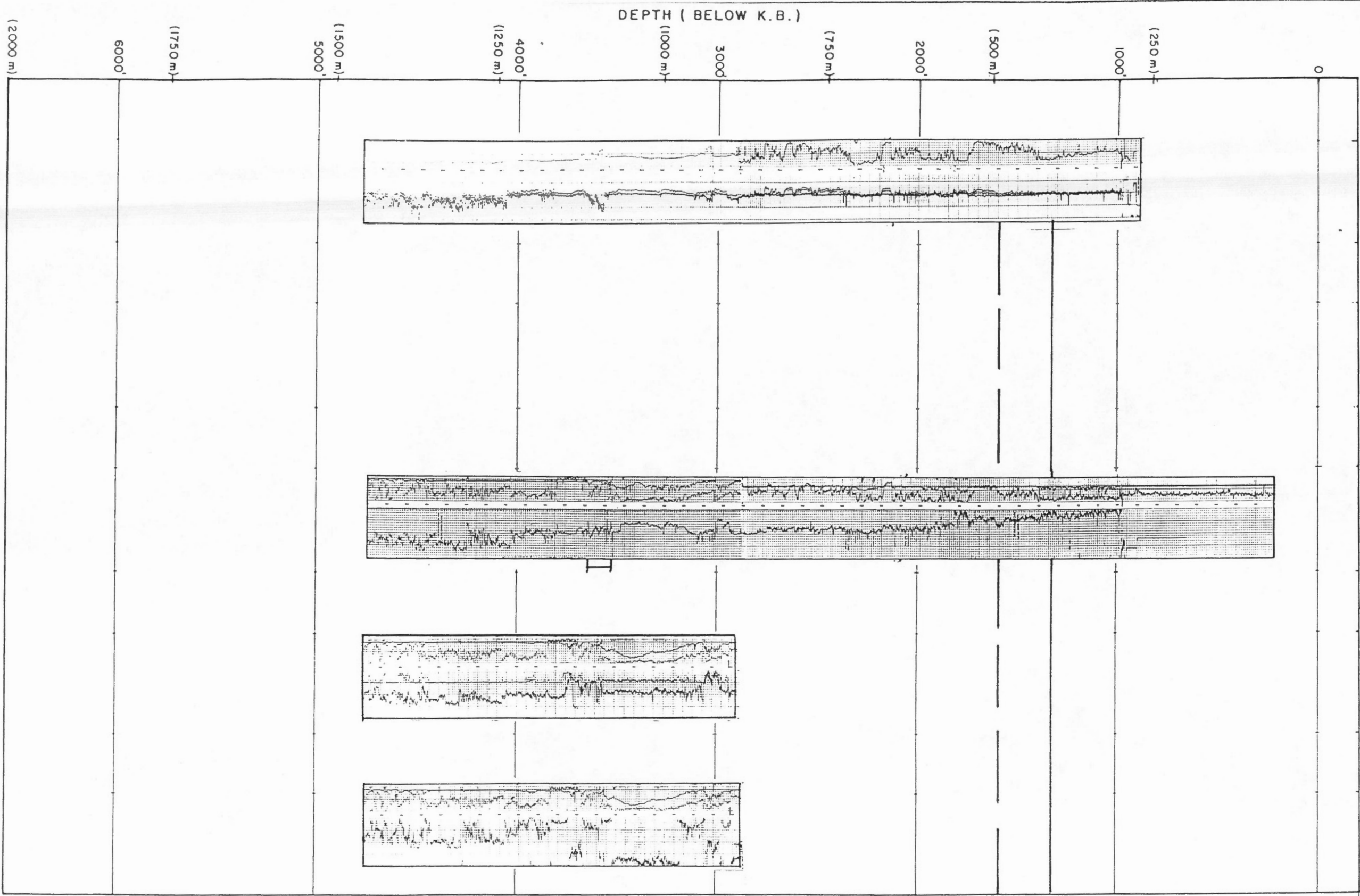
(B)

(C)

(D)

(E)

PERMAFROST /
HYDRATES



DEPTH (BELOW K.B.)

0
 (250 m)
 1000'
 2000'
 (500 m)
 (750 m)
 3000'
 (1000 m)
 4000'
 (1250 m)
 5000'
 (1500 m)
 6000'
 (1750 m)
 (2000 m)

18PF: 1350'
 Base Trans: 1610'

Possible Hydrates:
 3590' - 3685'

LOGS (LEFT TO RIGHT)

- (A) DILL
- (B) BHCS
- (C) FDEN
- (D) SNP
- (E)



HARDY ASSOCIATES (1978) LTD.
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PERMAFROST/GAS HYDRATE STUDY

ARCTIC ISLANDS
 DRAKE F-16

CG17773

A

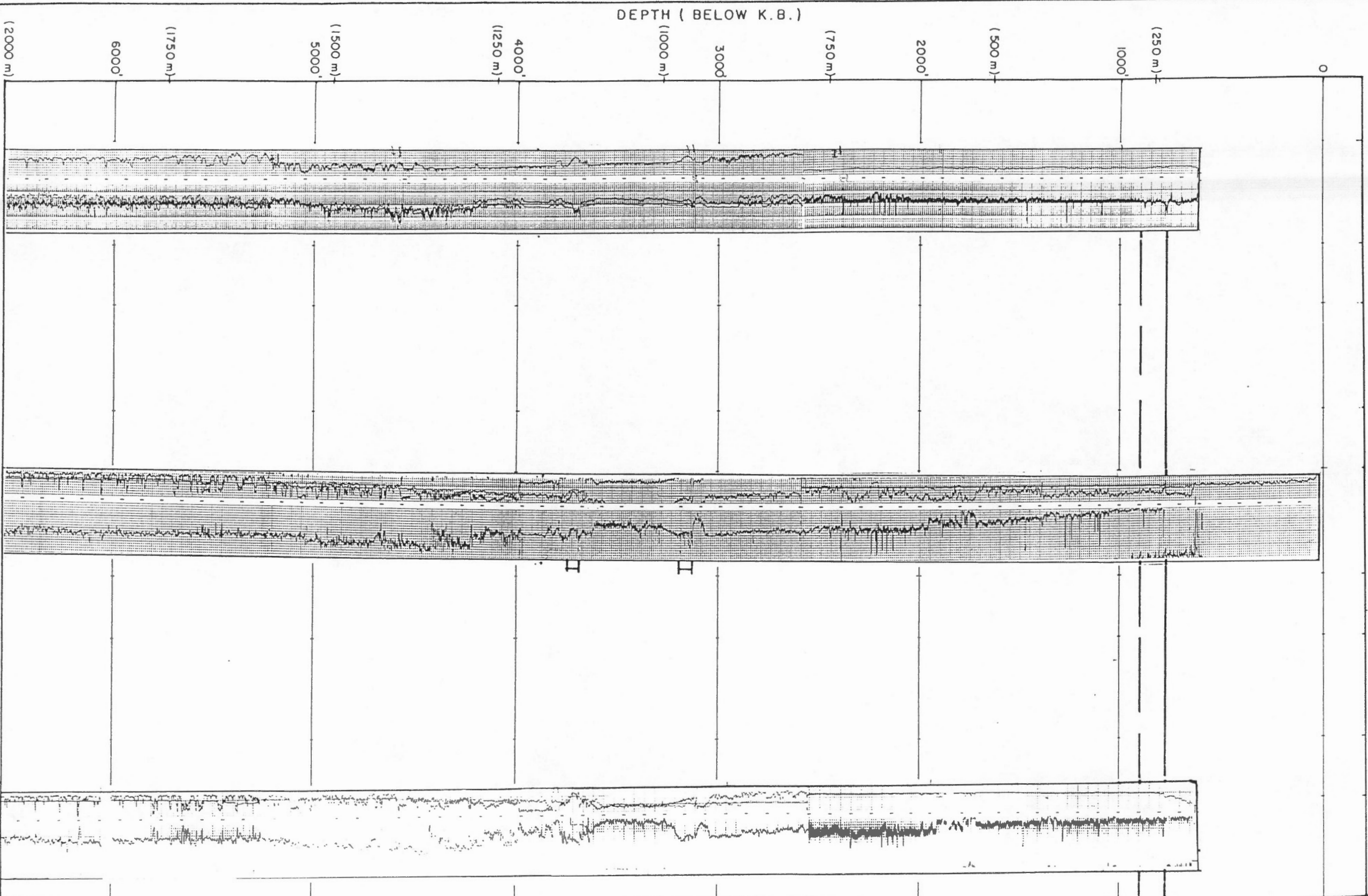
B

C

D

E

PERMAFROST /
HYDRATES



IBPF: 780'
Base Trans: 910'

Possible Hydrates:
3140' - 3760'

LOGS (LEFT TO RIGHT)

A DILL

B BHCS

C SNP

E



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PERMAFROST / GAS HYDRATE STUDY

ARCTIC ISLANDS

DRAKE POINT L-67A

CG10095

PLATE 71

(A)

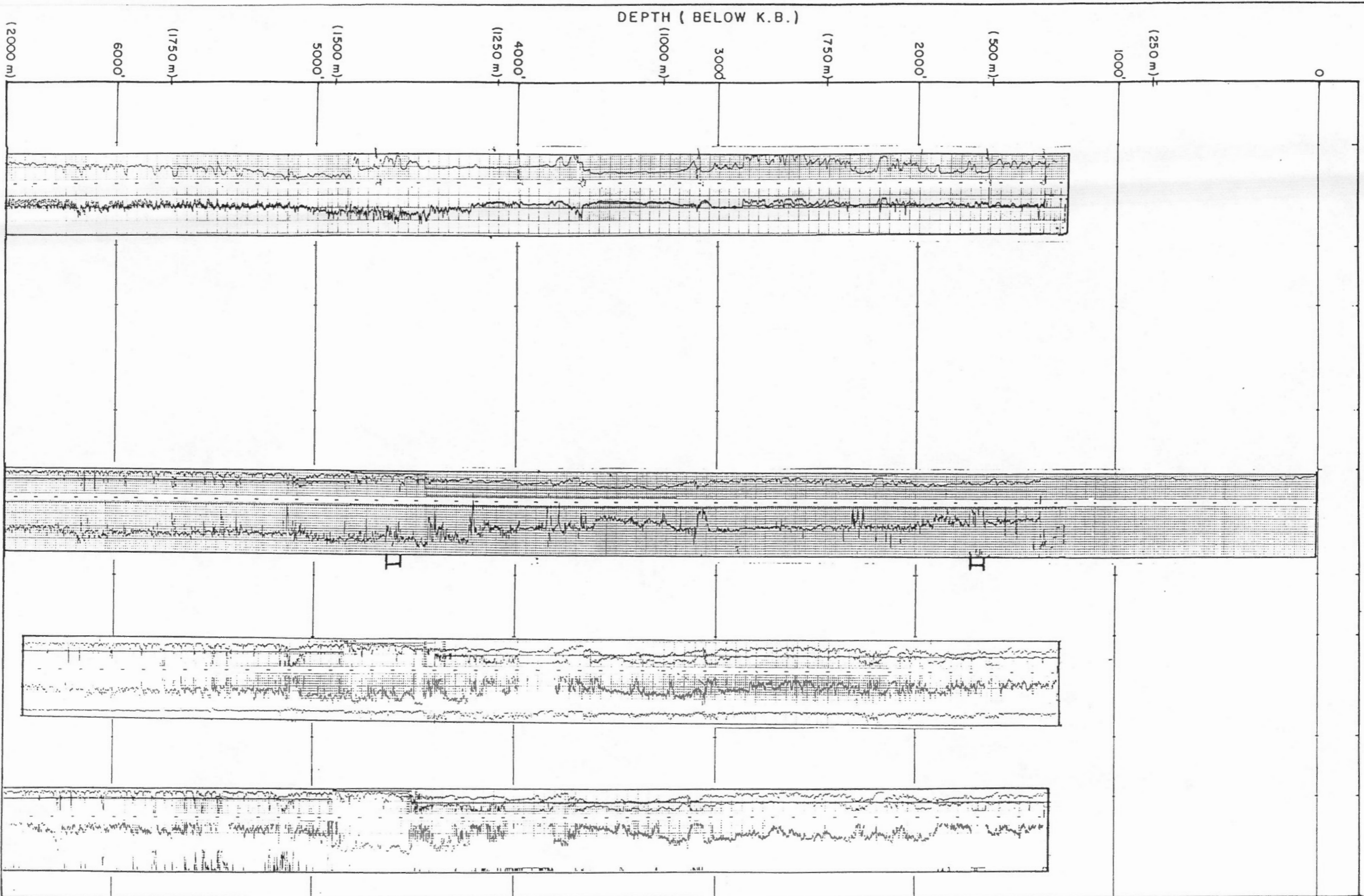
(B)

(C)

(D)

(E)

PERMAFROST
HYDRATES



1BPF : above log
top (<1377)

Possible Hydrates:
1660' - 1730'

Possible Hydrates:
4590' - 4650'

LOGS (LEFT TO RIGHT)

- (A) DILL
- (B) BHCS
- (C) CNFD
- (D) SNP
- (E)



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PERMAFROST/GAS HYDRATE STUDY
ARCTIC ISLANDS
DRAKE D-68

CG11005

DATE

A

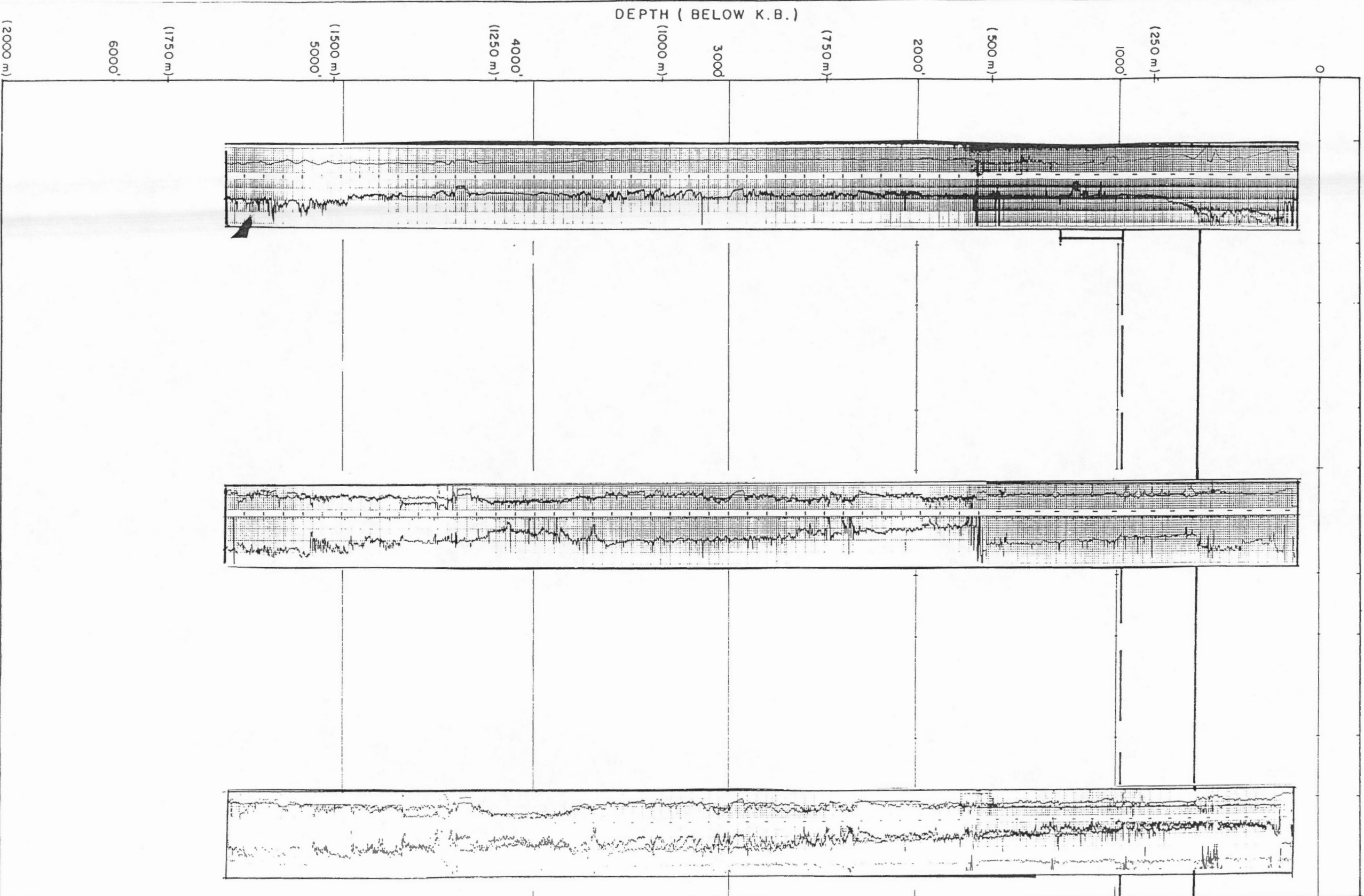
B

C

D

E

PERMAFROST
HYDRATES



IBPF : 570'

Base Trans : 980'

Possible Hydrates:
980' - 1280'

LOGS (LEFT TO RIGHT)

- (A) DILL - SFL
- (B) BHCS
- (C) CN-FD
- (D)
- (E)



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PERMAFROST / GAS HYDRATE STUDY
ARCTIC ISLANDS
DRAKE POINT K-79

CG10095

PLATE 74

(A)

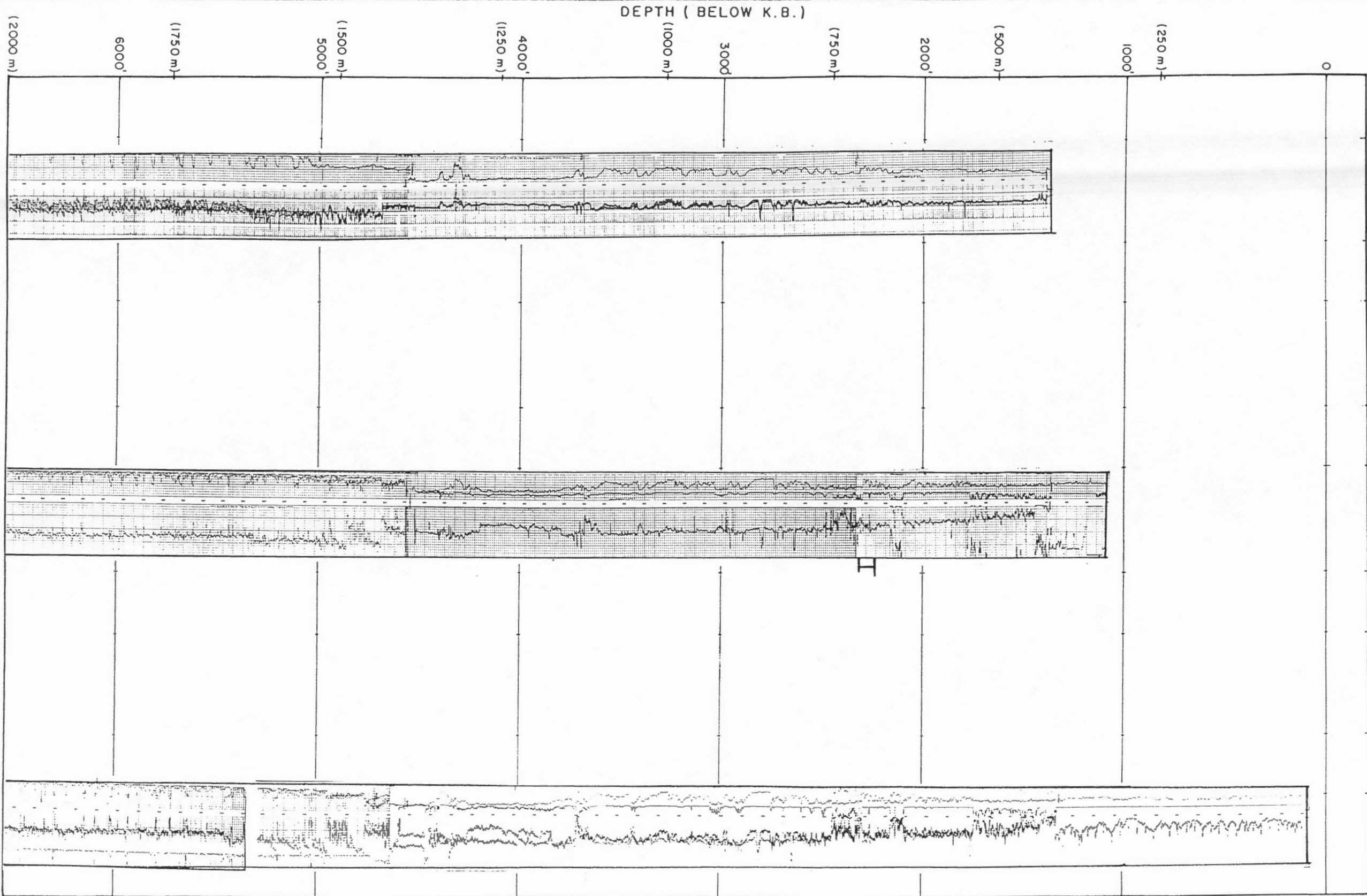
(B)

(C)

(D)

(E)

PERMAFROST
HYDRATES



LOGS (LEFT TO RIGHT)

- (A) DILL
- (B) BHCS
- (C) CNFD
- (D)
- (E)



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PERMAFROST / GAS HYDRATE STUDY

ARCTIC ISLANDS

CHADS CREEK B-64

CG10095

PLATE 75

(A)

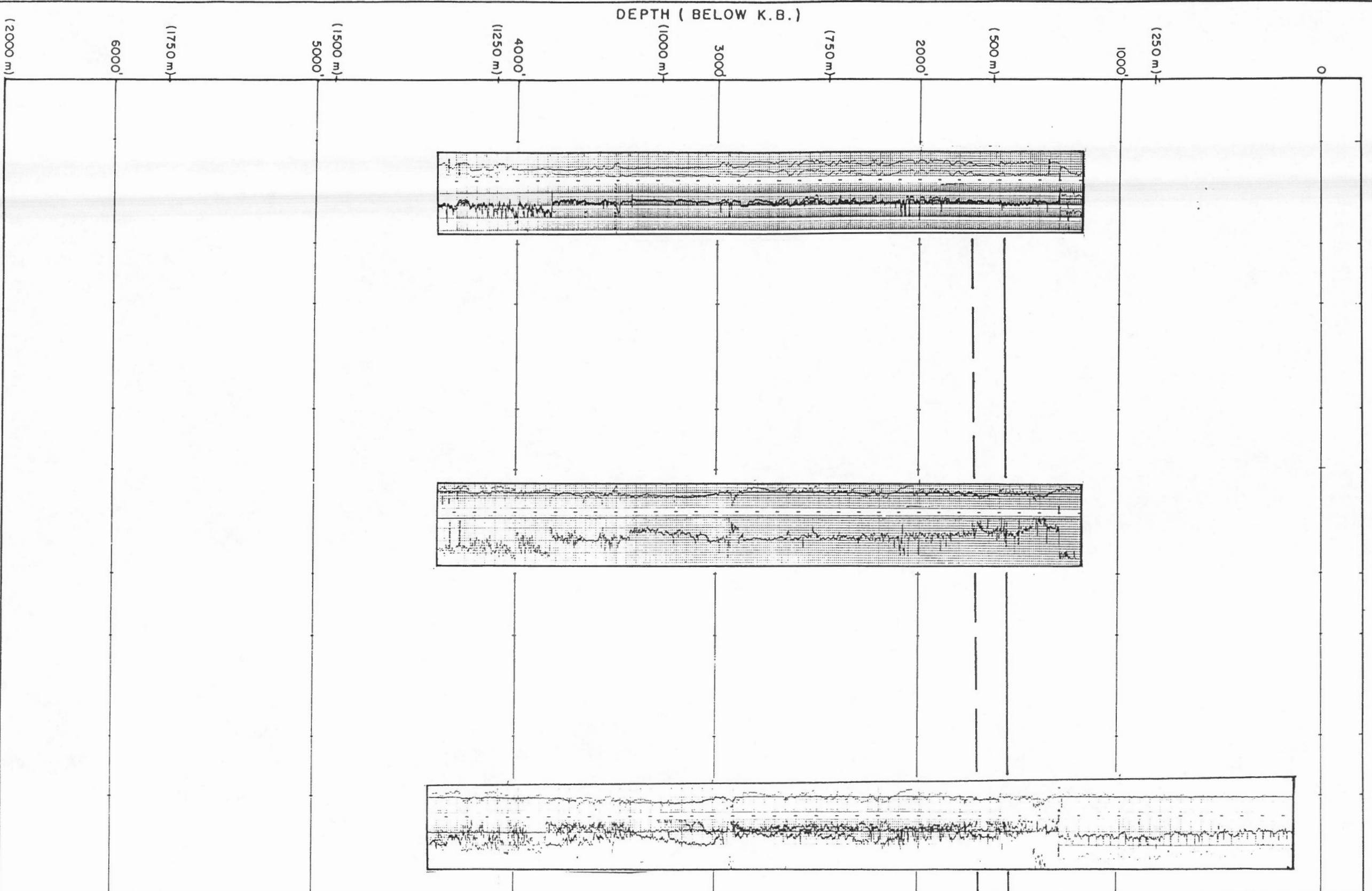
(B)

(C)

(D)

(E)

PERMAFROST /
HYDRATES



IBPF : 1595'
Base Trans : 1735'

No Hydrates Logged

LOGS (LEFT TO RIGHT)

- (A) DILL
- (B) BHCS
- (C) CNFD
- (D)
- (E)



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PERMAFROST/GAS HYDRATE STUDY

ARCTIC ISLANDS
E. HECLA C-32

CG10095

PLATE 76

(A)

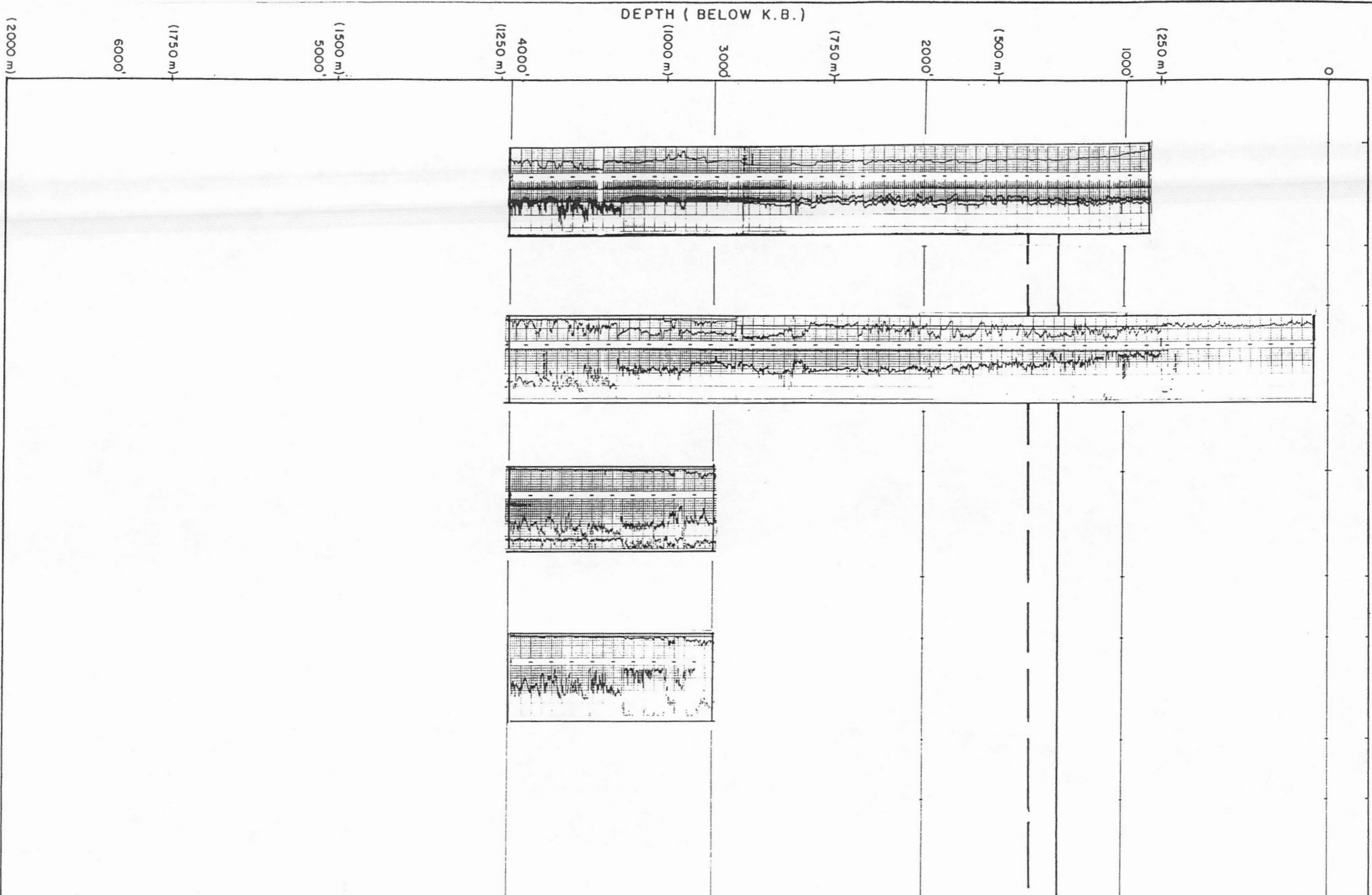
(B)

(C)

(D)

(E)

PERMAFROST /
HYDRATES



1BPF: 1350'
Base Trans: 1500'

No Hydrates Logged

LOGS (LEFT TO RIGHT)

- (A) DILL
- (B) BHCS
- (C) FDEN
- (D) SNP
- (E)



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PERMAFROST/GAS HYDRATE STUDY
ARCTIC ISLANDS
HECLA F-62

CG10095

PLATE 77

(A)

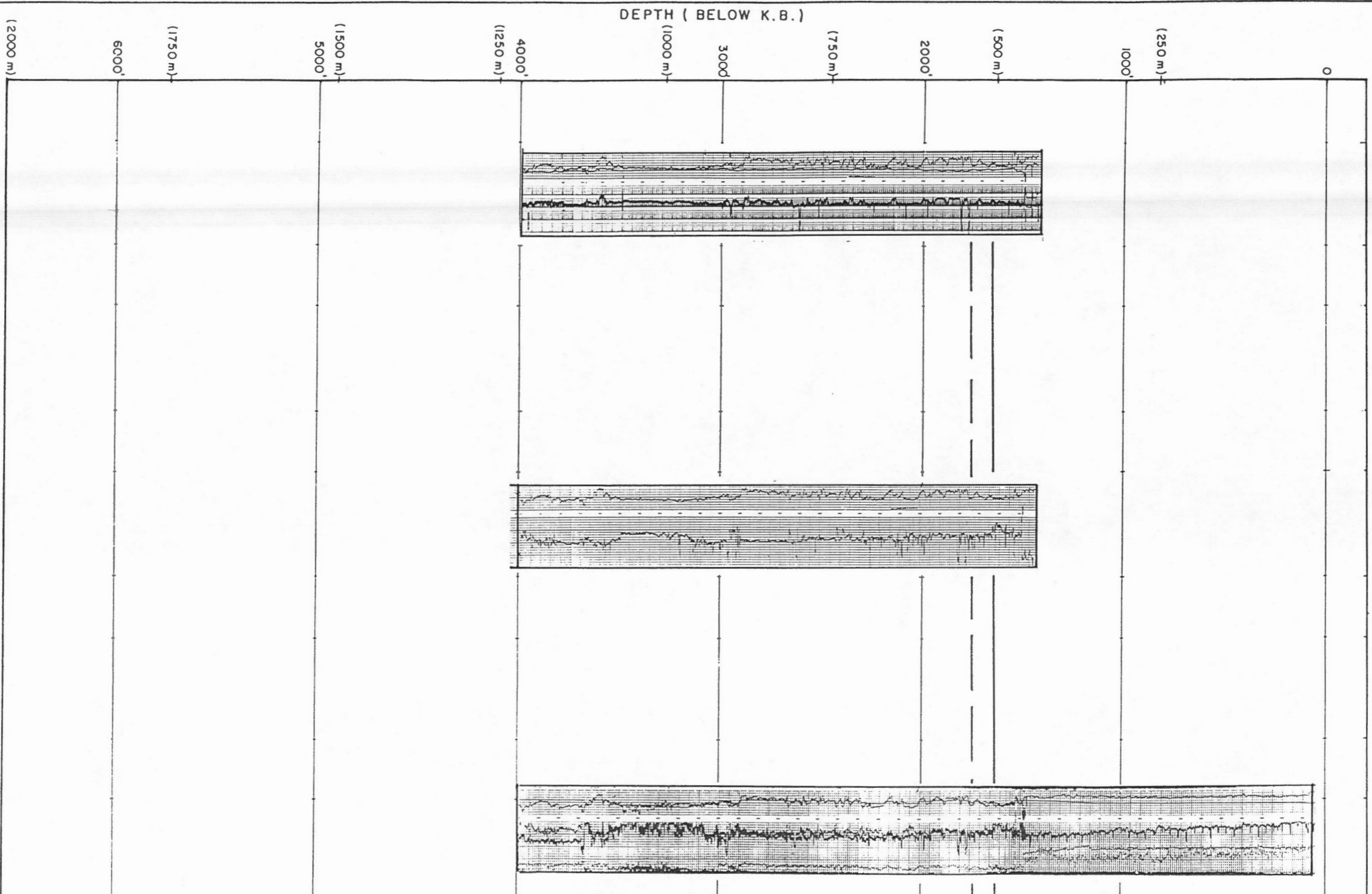
(B)

(C)

(D)

(E)

PERMAFROST /
HYDRATES



IBPF: 1640'
 Base Trans: 1775'
 No Hydrates Logged

LOGS (LEFT TO RIGHT)

(A) DILL

(B) BHCS

(C) CNFD

(D)

(E)



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PERMAFROST/GAS HYDRATE STUDY

ARCTIC ISLANDS

WEST HECLA C-05

CG10095

PLATE 78

(A)

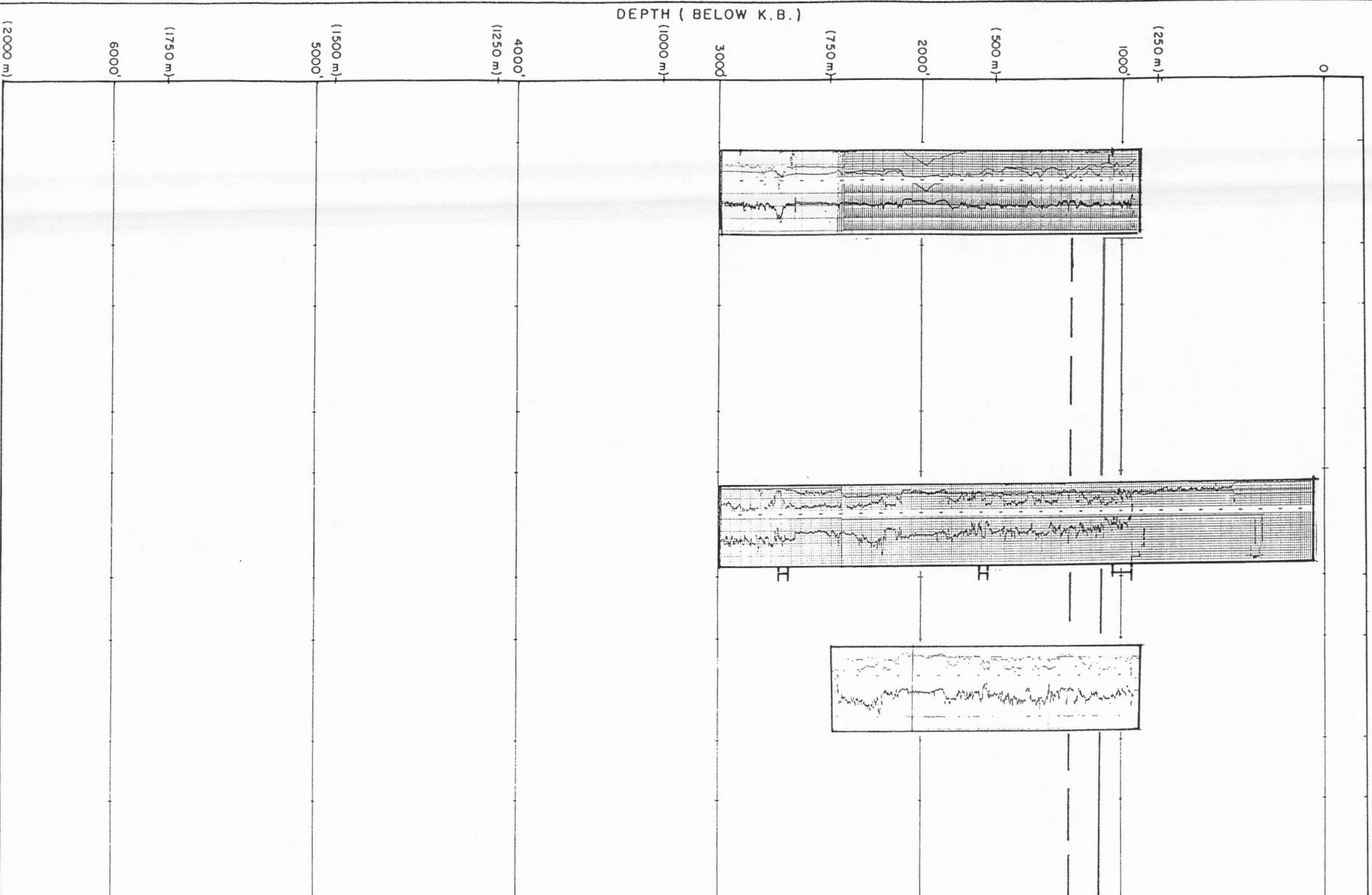
(B)

(C)

(D)

(E)

PERMAFROST /
HYDRATES



Possible Hydrates:
944' - 1040'

1BPF : 1105'
Base Trans: 1265'

Possible Hydrates:
1700' - 1720'

Possible Hydrates:
2680' - 2735'

LOGS (LEFT TO RIGHT)

(A) DILL

(B) BHCS

(C) CNFD

(D)

(E)



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PERMAFROST / GAS HYDRATE STUDY

ARCTIC ISLANDS

HECLA N-52

CG10095

PLATE 79

(A)

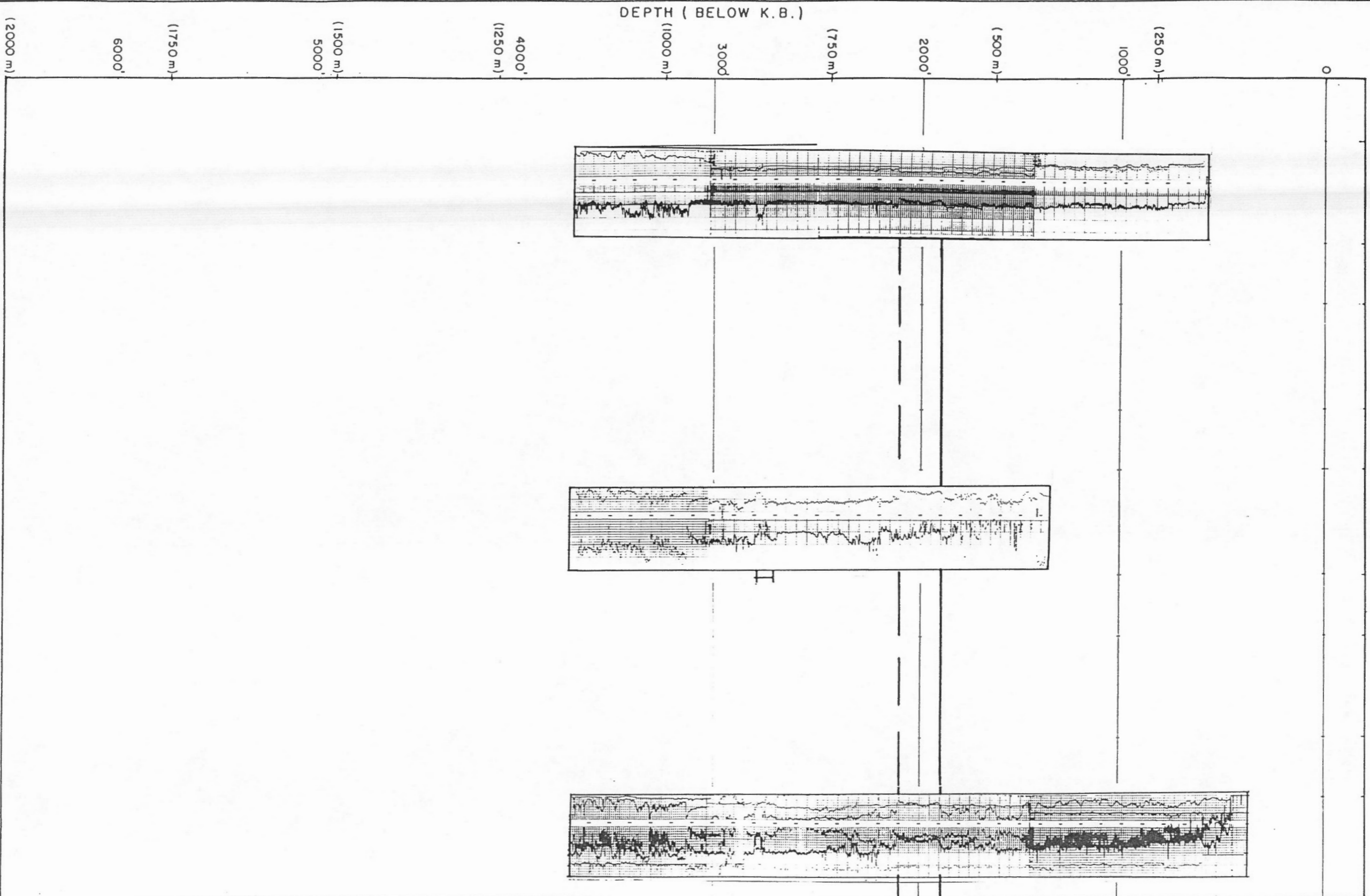
(B)

(C)

(D)

(E)

PERMAFROST
HYDRATES



1BPF: 1900'

Base Trans: 2100'

? Hydrate:
2730' - 2780'

LOGS (LEFT TO RIGHT)

(A) DILL

(B) BHCS

(D) CN-FD



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PERMAFROST/GAS HYDRATE STUDY

ARCTIC ISLANDS

W. HECLA P-62

CG10095

PLATE 80

(A)

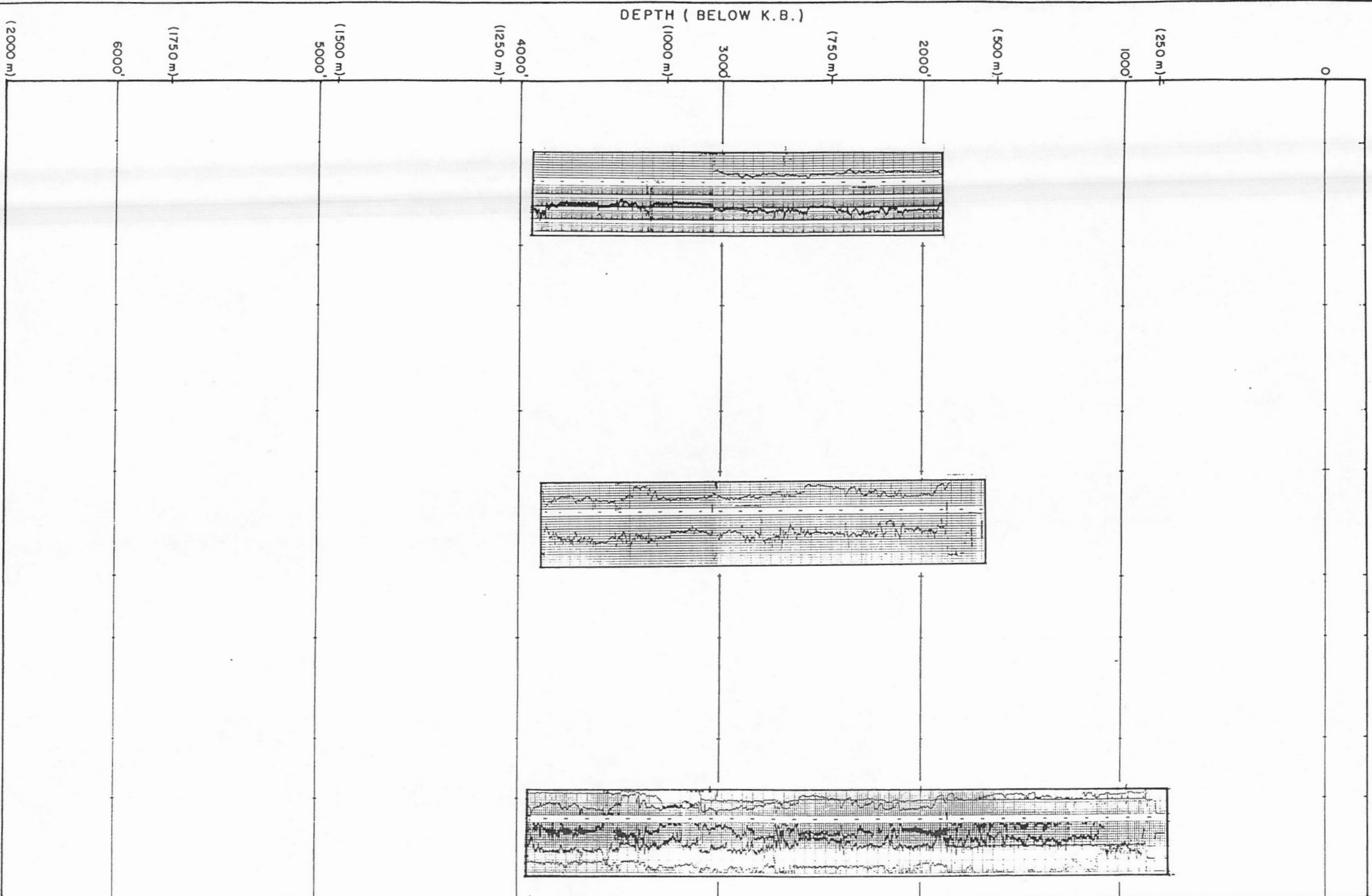
(B)

(C)

(D)

(E)

PERMAFROST
HYDRATES

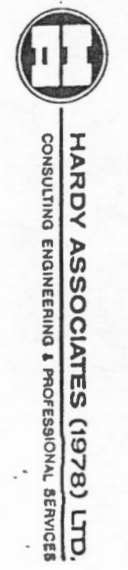


No PFB within
logged interval

No Hydrates inter-
preted within
logged interval

LOGS (LEFT TO RIGHT)

- (A) DILL
- (B) BHCS
- (C) CNFD
- (D)
- (E)



PERMAFROST / GAS HYDRATE STUDY
ARCTIC ISLANDS
N.W. HECLA M-25

CG10095

PLATE 81

(A)

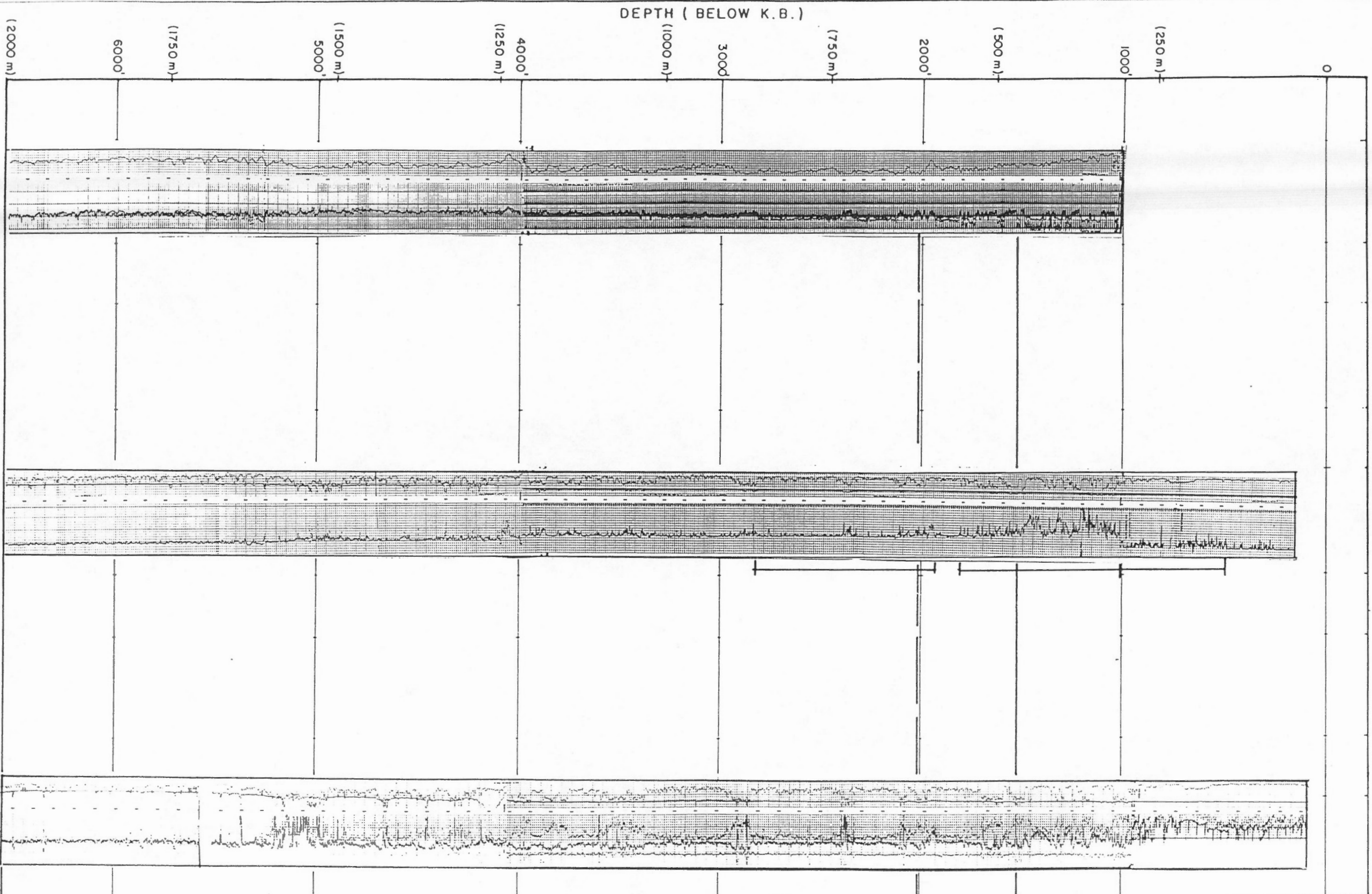
(B)

(C)

(D)

(E)

PERMAFROST /
HYDRATES



Possible Hydrates:
465' - 1006'

Hydrates:
1006' - 1815'

1BPF: 1530'

Base Trans: 2015'

Hydrates:
1945' - 2835'

DEPTH (BELOW K.B.)

0
 (250 m)
 1000'
 (500 m)
 2000'
 (750 m)
 3000'
 (1000 m)
 4000'
 (1250 m)
 5000'
 (1500 m)
 6000'
 (1750 m)
 (2000 m)

LOGS (LEFT TO RIGHT)

(A) DILL

(B) BHCS

(C) CNFD

(D) CNFD



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PERMAFROST/GAS HYDRATE STUDY

ARCTIC ISLANDS

CAPE FLEETWOOD L-21

CG10095

PLATE R7

(A)

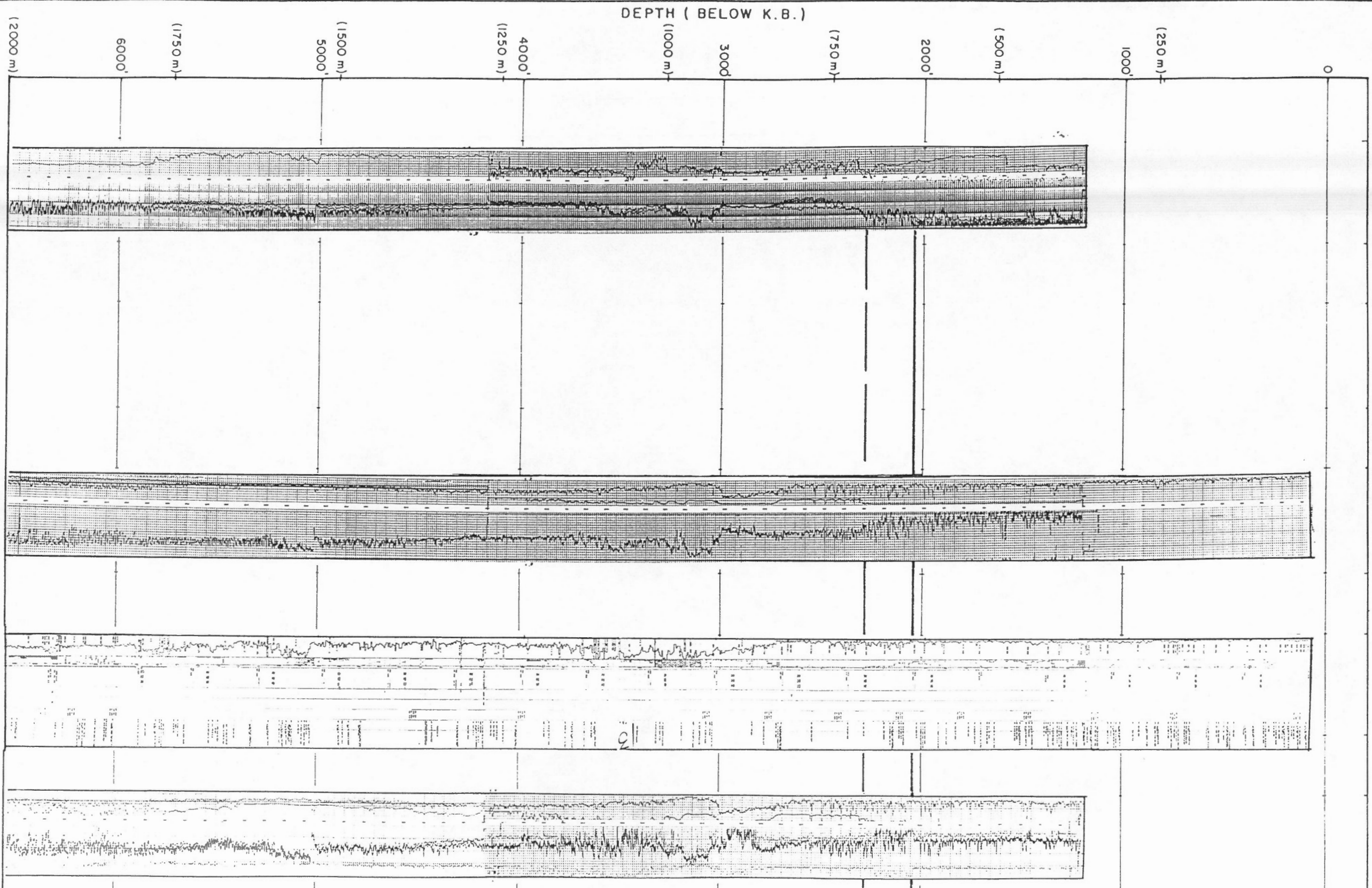
(B)

(C)

(D)

(E)

PERMAFROST
HYDRATES



IBPF : 2040'

Base Trans : 2320'

No Hydrates Logged

DEPTH (BELOW K.B.)

0

(250 m)

1000'

(500 m)

2000'

(750 m)

3000'

(1000 m)

4000'

(1250 m)

(1500 m)

5000'

(1750 m)

6000'

(2000 m)

LOGS (LEFT TO RIGHT)

(A) DILL

(B) BHCS

(C) MUD

(D) CNFD



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PERMAFROST/GAS HYDRATE STUDY

ARCTIC ISLANDS

ROBERT HARBOUR K-07

CG10095

PLATE 83

(A)

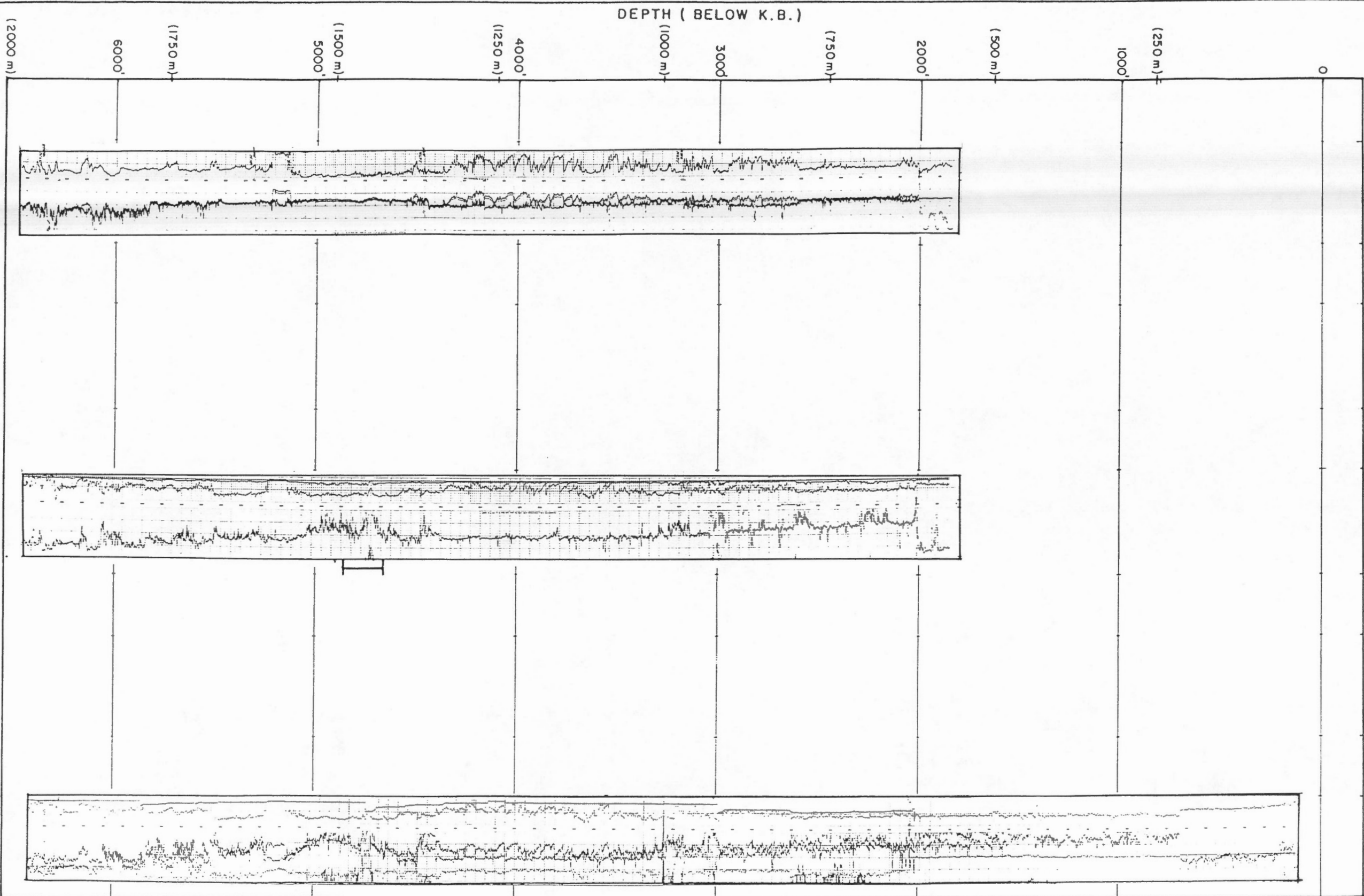
(B)

(C)

(D)

(E)

PERMAFROST /
HYDRATES



IBPF : < 2003
above log
tops.

Possible Hydrates:
4705' - 4785'

LOGS (LEFT TO RIGHT)

- (A) DILL
- (B) BHCS
- (C) FDEN
- (D)
- (E)



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PERMAFROST/GAS HYDRATE STUDY

ARCTIC ISLANDS

COLLINGWOOD K-33

CG10095

PLATE 84

(A)

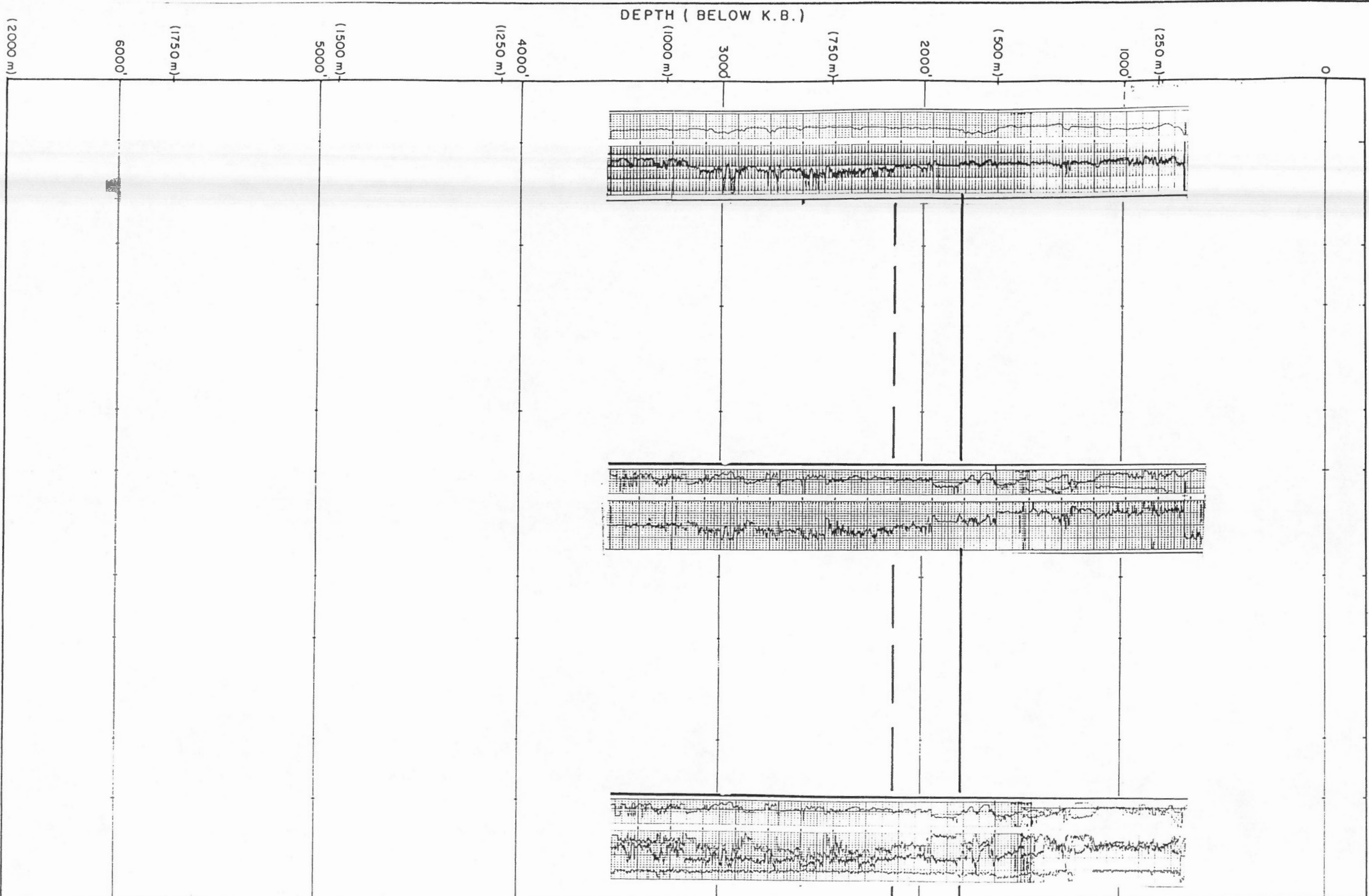
(B)

(C)

(D)

(E)

PERMAFROST /
HYDRATES



No Hydrates Logged

1BPF: 555 m

Base Trans: 660 m

LOGS (LEFT TO RIGHT)

(A) D IND FOC

(B) BHCS

(C) BHCS

(D) CNFD

(E) CNFD



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PERMAFROST/GAS HYDRATE STUDY

ARCTIC ISLANDS

DESBARATS B-73

CG10095

PLATE 85

(A)

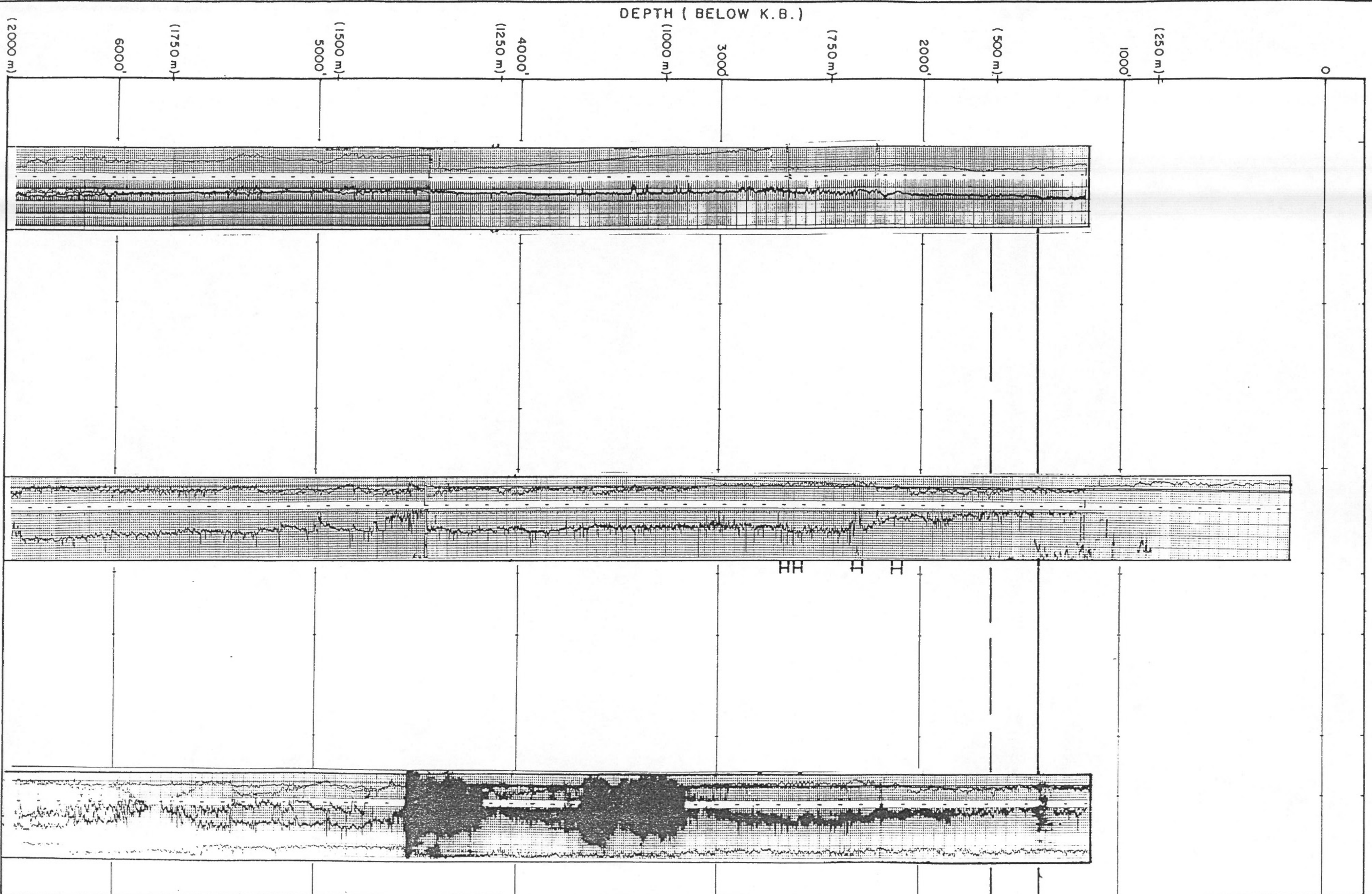
(B)

(C)

(D)

(E)

PERMAFROST
HYDRATES



DEPTH (BELOW K.B.)

0
 (250 m) 1000'
 (500 m) 2000'
 (750 m) 3000'
 (1000 m) 4000'
 (1250 m) 5000'
 (1500 m) 6000'
 (1750 m)
 (2000 m)

1BPF: 1430'
 Base Trans: 1675'
 Possible Hydrates:
 2130' - 2690'

LOGS (LEFT TO RIGHT)

- (A) DILL
- (B) BHCS
- (C) CNFD
- (D)
- (E)



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PERMAFROST/GAS HYDRATE STUDY

ARCTIC ISLANDS
 N. SABINE H-49

CG10095

PLATE 86

(A)

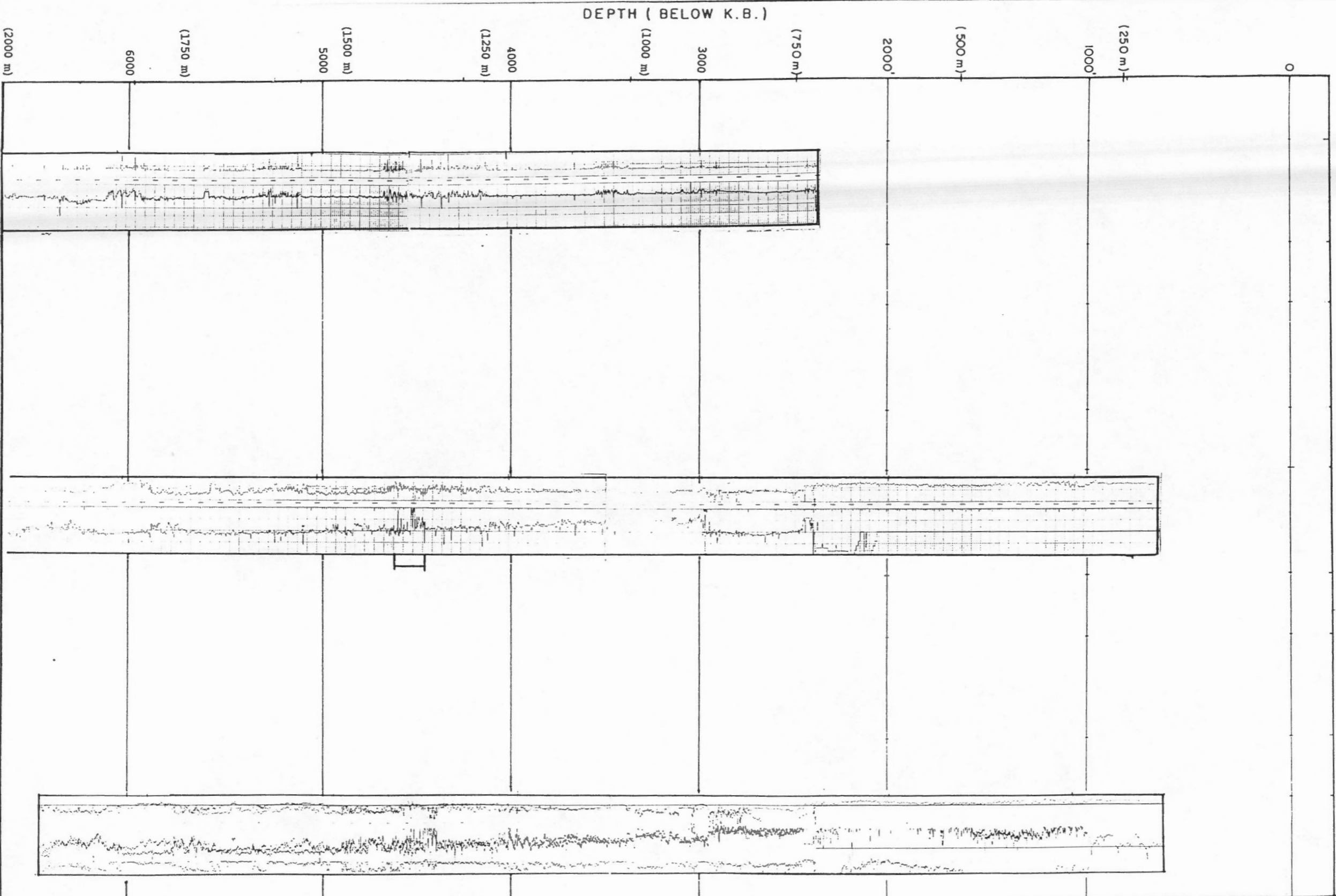
(B)

(C)

(D)

(E)

PERMAFROST
HYDRATES



No 1BPF logged
(RES log top at
2395')

Poss. Hydrates:
4430' - 4600'

DEPTH (BELOW K.B.)

(2000 m)

(1750 m)

5000

(1500 m)

(1250 m)

4000

(1000 m)

3000

(750 m)

2000

(500 m)

1000

(250 m)

0

LOGS (LEFT TO RIGHT)

(A) DISFL

(B) BHCS

(C) BHCS

(D) CNFD

(E) CNFD



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PERMAFROST/GAS HYDRATE STUDY

ARCTIC ISLANDS

ROCHE POINT 0-43

CG10095

PLATE 87

(A)

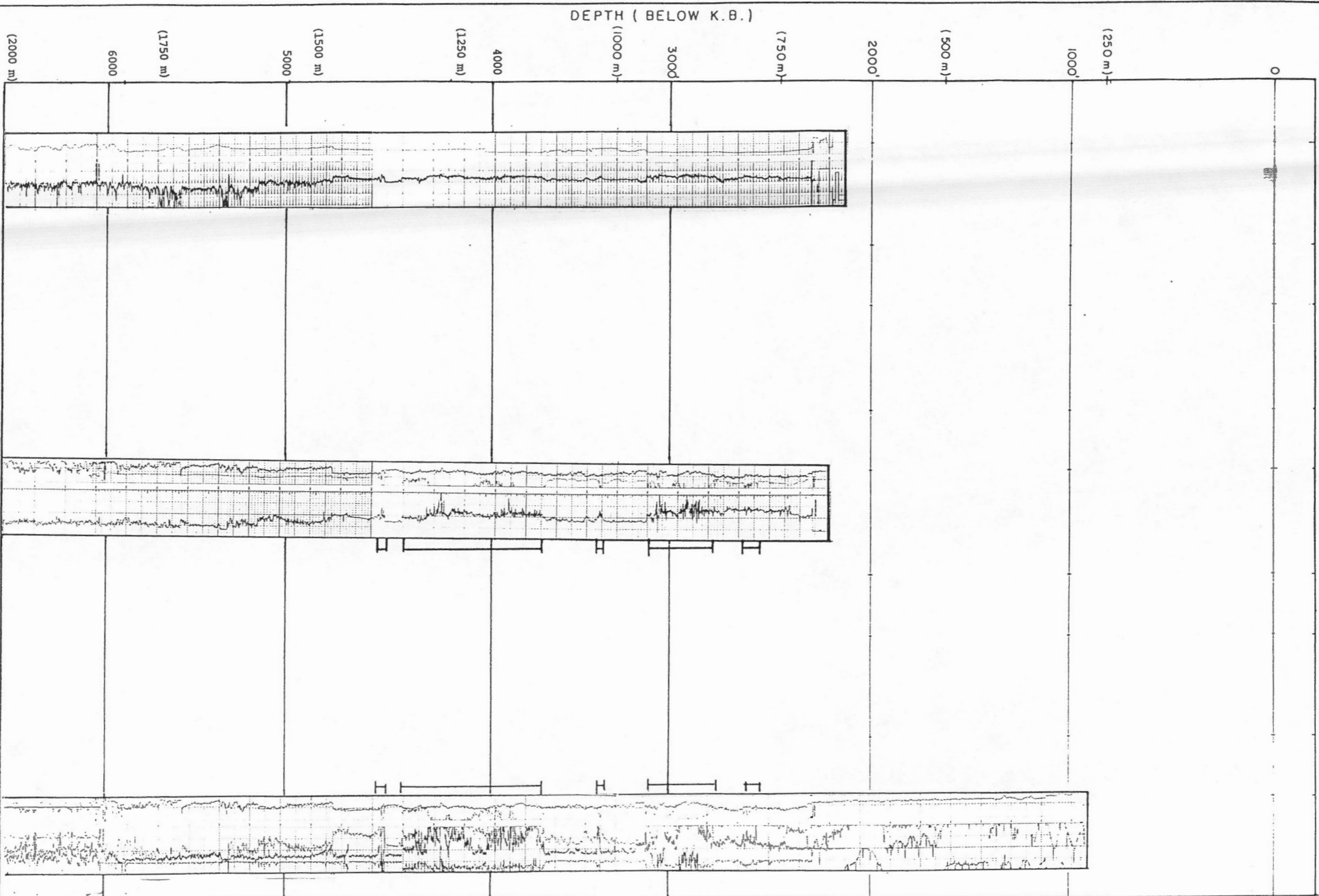
(B)

(C)

(D)

(E)

PERMAFROST /
HYDRATES



No 1BPF logged
(log top 698 m)

Poss. Hydrates
770 - 790 m
840 - 950 m
1025 - 1030 m

Poss. Hydrates
1120 - 1390 m

LOGS (LEFT TO RIGHT)

(A) DISFL

(B) BHCS

(C) BHCS

(D) CNFD



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PERMAFROST/GAS HYDRATE STUDY

ARCTIC ISLANDS

HAZEN F-54

CC-1195

TE

(A)

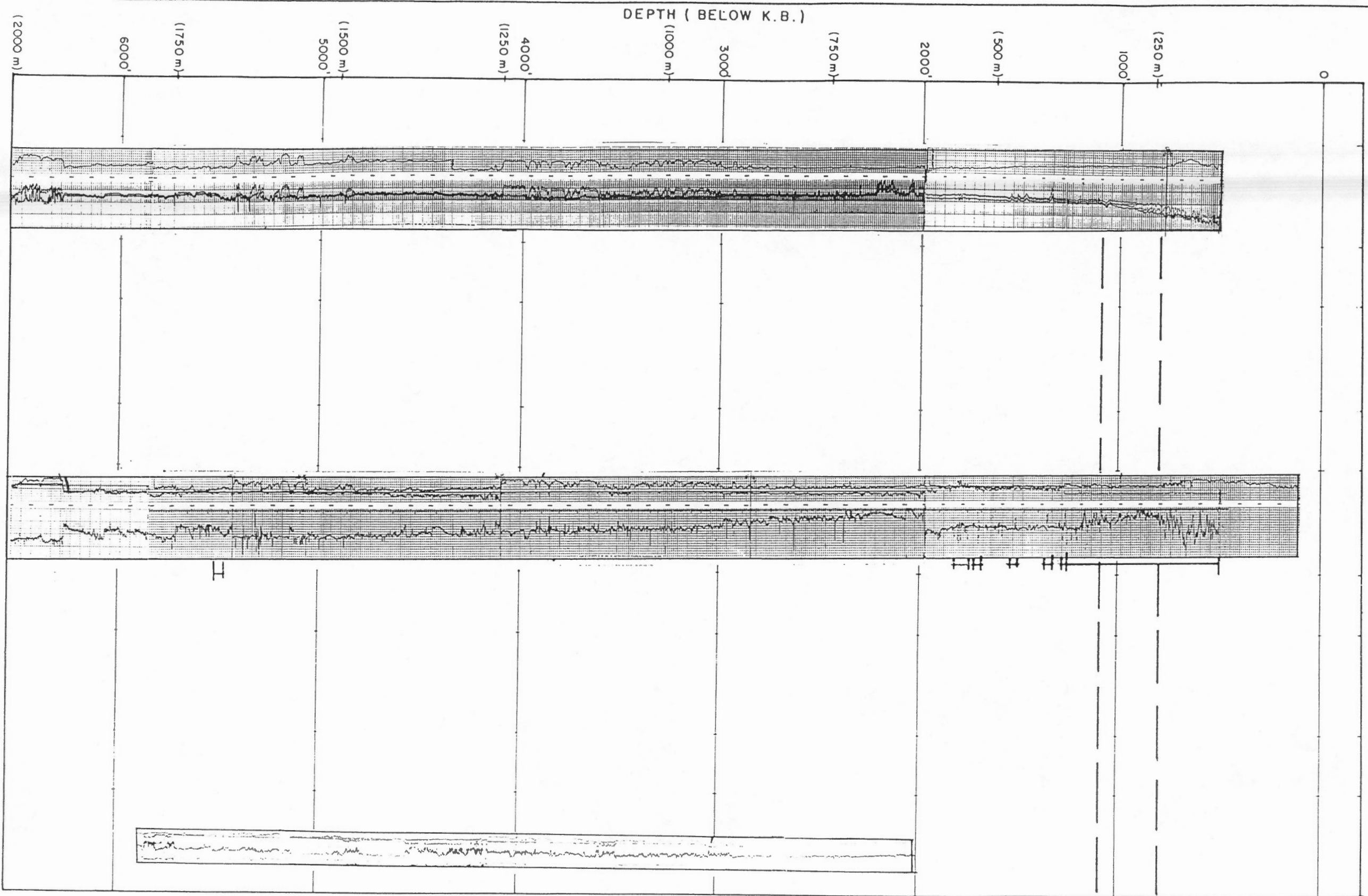
(B)

(C)

(D)

(E)

PERMAFROST
HYDRATES



DEPTH (BELOW K.B.)

(2000 m)

6000'

(1750 m)

5000'

(1500 m)

4000'

(1250 m)

3000'

(1000 m)

2000'

(750 m)

(500 m)

1000'

(250 m)

0

LOGS (LEFT TO RIGHT)

(A) DILL

(B) BHCS

(C) BHCS

(D) FDEN

(E) FDEN



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PERMAFROST/GAS HYDRATE STUDY

ARCTIC ISLANDS

SKYBATTLE BAY C-15

CG10095

PLATE 89

Possible Hydrates:
5355' - 5590'

? Hydrates:
505' - 1830'

Base Trans: 1100'

1BPF: 800'

(A)

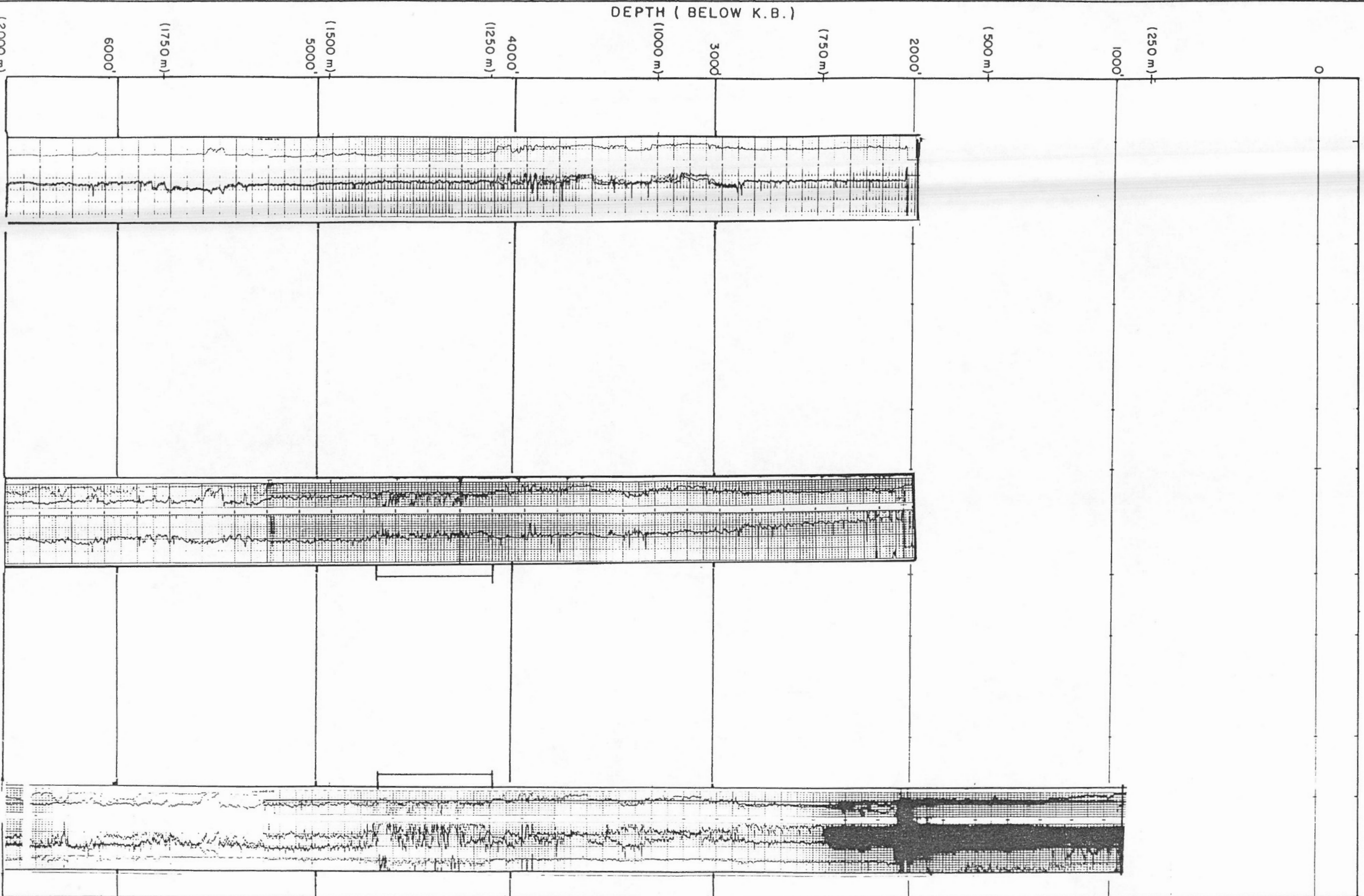
(B)

(C)

(D)

(E)

PERMAFROST
HYDRATES



LOGS (LEFT TO RIGHT)

- (A) DISFL
- (B) BHCS
- (C) BHCS
- (D) CNFD
- (E) CNFD



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PERMAFROST/GAS HYDRATE STUDY
ARCTIC ISLANDS
WHITEFISH H-63

CG10095

PLATE 90

PERMAFROST
HYDRATES

(A)

(B)

(C)

(D)

(E)

Possible Hydrates:
518' - 1050'

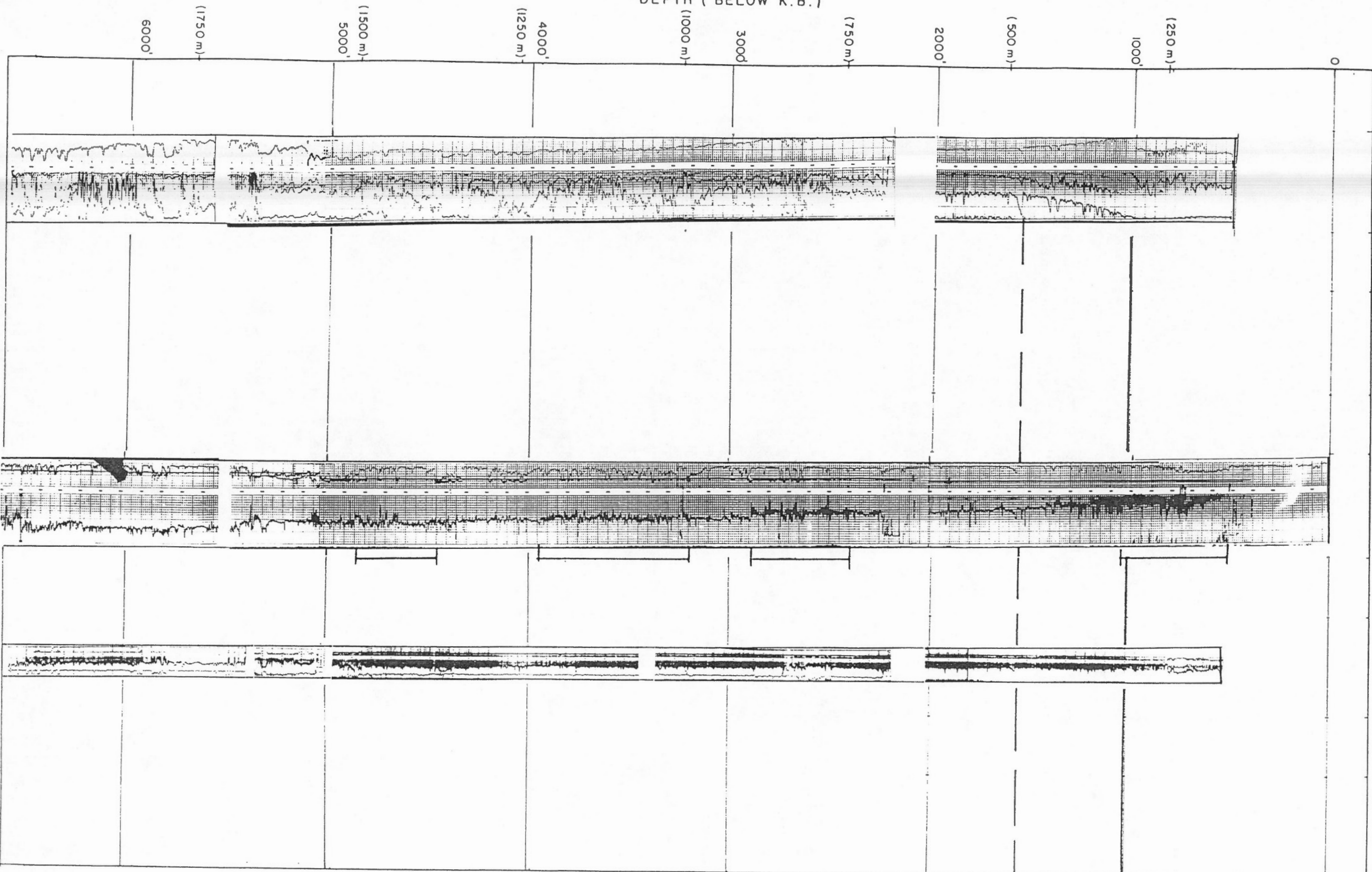
IBPF: 1010'

Base Trans: 1560'

Possible Hydrates:
2400' - 2890'

Traces Hydrates:
3210' - 3935'
4460' - 5030'

DEPTH (BELOW K.B.)



LOGS (LEFT TO RIGHT)

(A) IES

(B) BHCS

(C) FDEN

(D)

(E)

(F)



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PERMAFROST/GAS HYDRATE STUDY

ARCTIC ISLANDS
GRAHAM C-52

CG

5

FE

(A)

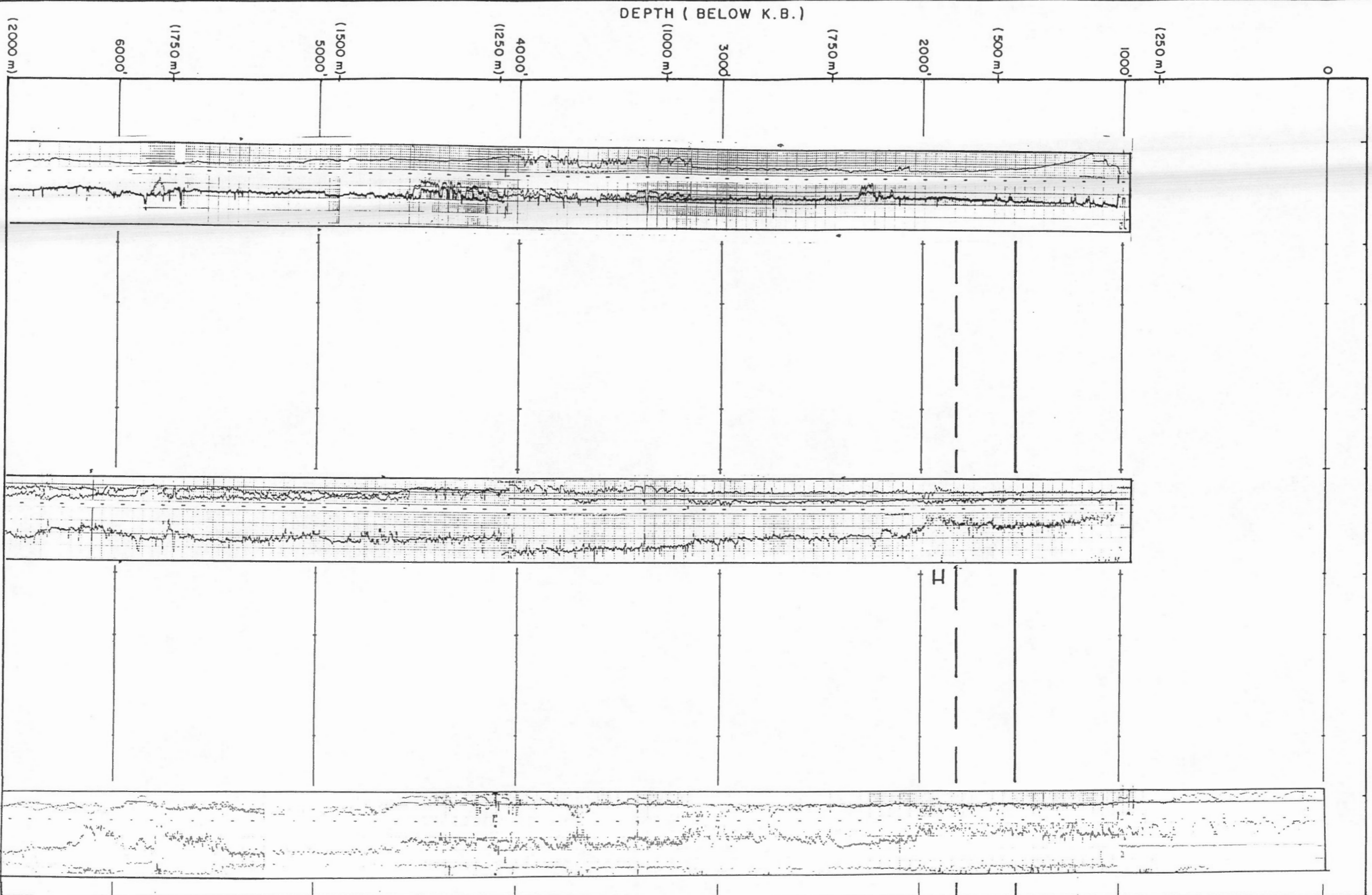
(B)

(C)

(D)

(E)

PERMAFROST
HYDRATES



Base Trans: 1860'
 ? Hydrates: 1900' - 1940'

1BPF: 1560'

LOGS (LEFT TO RIGHT)

(A) DILL

(B) BHCS

(C) CNFD

(D) CNFD

(E) CNFD



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PERMAFROST/GAS HYDRATE STUDY

ARCTIC ISLANDS

PAT BAY A-72

CG10095

PLATE 93

(A)

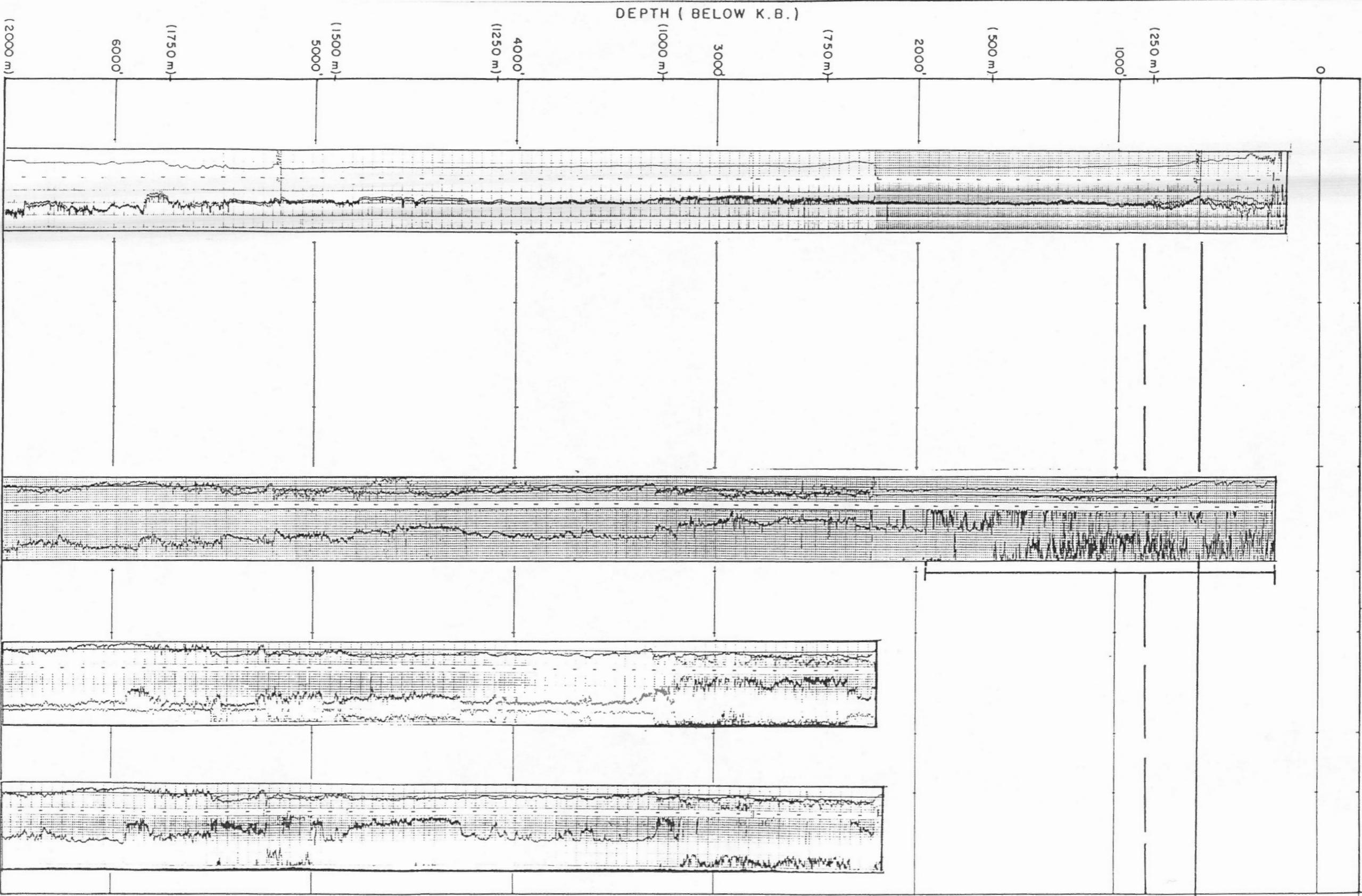
(B)

(C)

(D)

(E)

PERMAFROST /
HYDRATES



IBPF: 580'

Base Trans: 850'

Possible Hydrates:
222' - 2137'

LOGS (LEFT TO RIGHT)

- (A) DILL
- (B) BHCS
- (C) FDEN
- (D) SNP



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PERMAFROST/GAS HYDRATE STUDY
ARCTIC ISLANDS
CAPE NOREM A-80

CG10095

PLATE 94

(A)

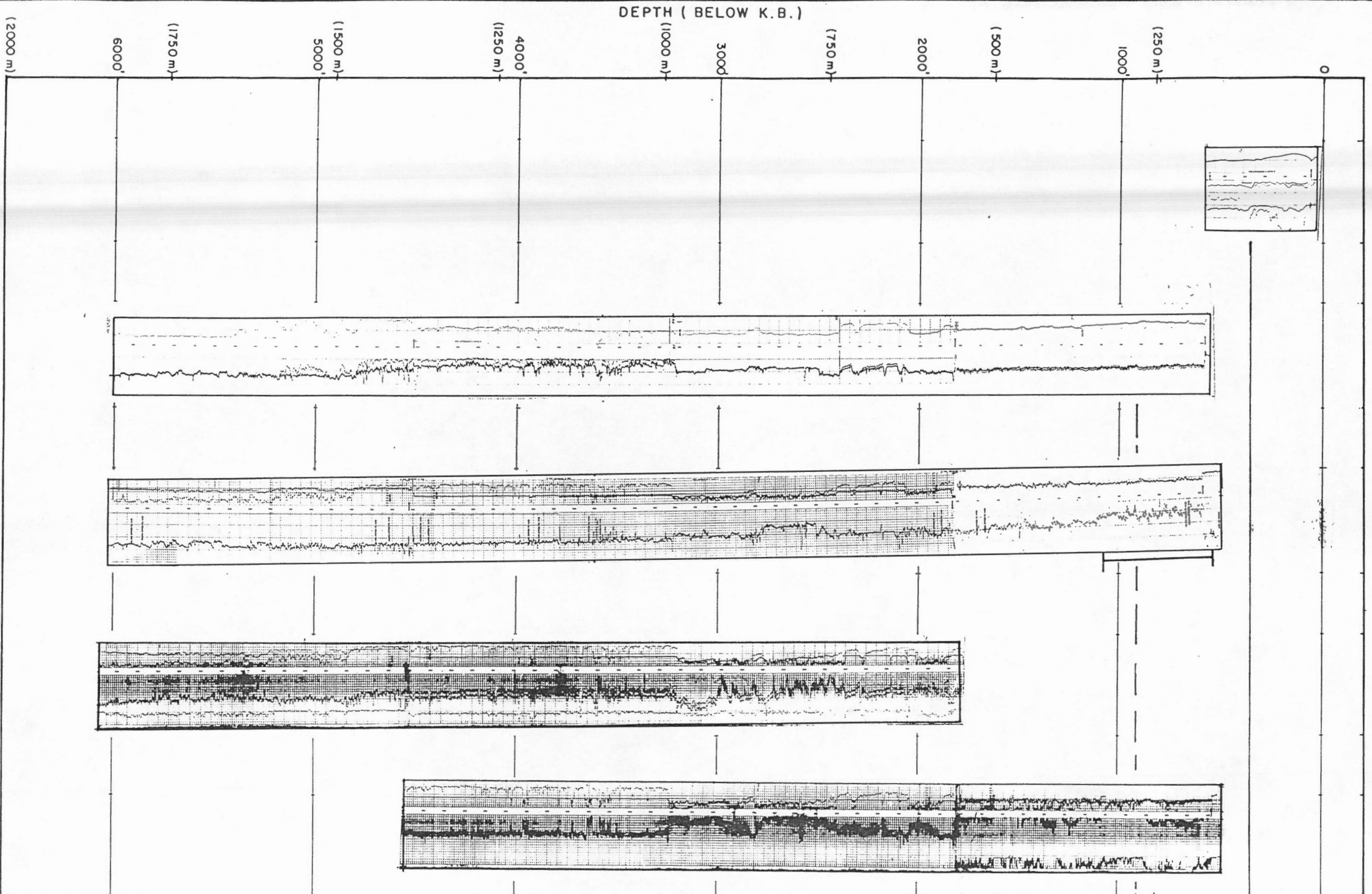
(B)

(C)

(D)

(E)

PERMAFROST
HYDRATES



IBPF: 430'

E.P.B. 0°C: 810'

Base Trans: 920'

Possible Hydrates:
585' - 1100'
1470' - 1490'

Possible Hydrates:
2795' - 2855'

LOGS (LEFT TO RIGHT)

- (A) EL
- (B) DILL
- (C) BHCS
- (D) CNFD
- (E) SNP

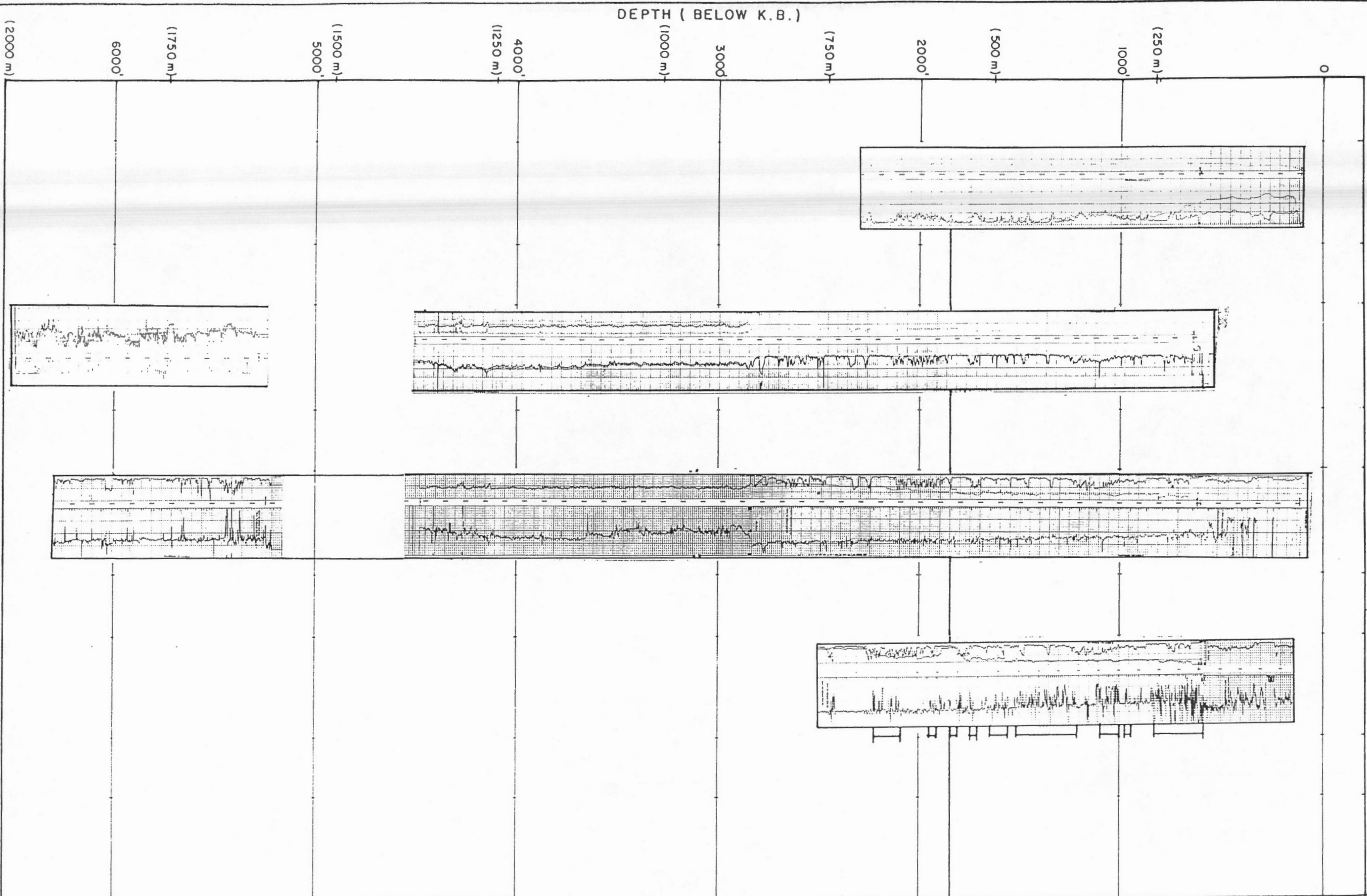


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PERMAFROST/GAS HYDRATE STUDY
ARCTIC ISLANDS
LINCKENS ISLAND P-46

CG10095

PLATE 95



Possible Hydrates:
230' - 335'

Possible Hydrate:
603' - 1080'

Possible Hydrates:
1220' - 2220'

1BPF: 1860'

DEPTH (BELOW K.B.)

0
(250 m)
1000'
(500 m)
2000'
(750 m)
3000'
(1000 m)
4000'
(1250 m)
5000'
(1500 m)
6000'
(1750 m)
(2000 m)

A

B

C

D

E

LOGS (LEFT TO RIGHT)

- (A) EL-LSS-PMF (TVD)
- (B) DI SFL (TVD)
- (C) BHCS (TVD)
- (D) LSS
- (E)



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PERMAFROST / GAS HYDRATE STUDY

ARCTIC ISLANDS

CAPE ALLISON L-50

CG10095

PLATE 96

(A)

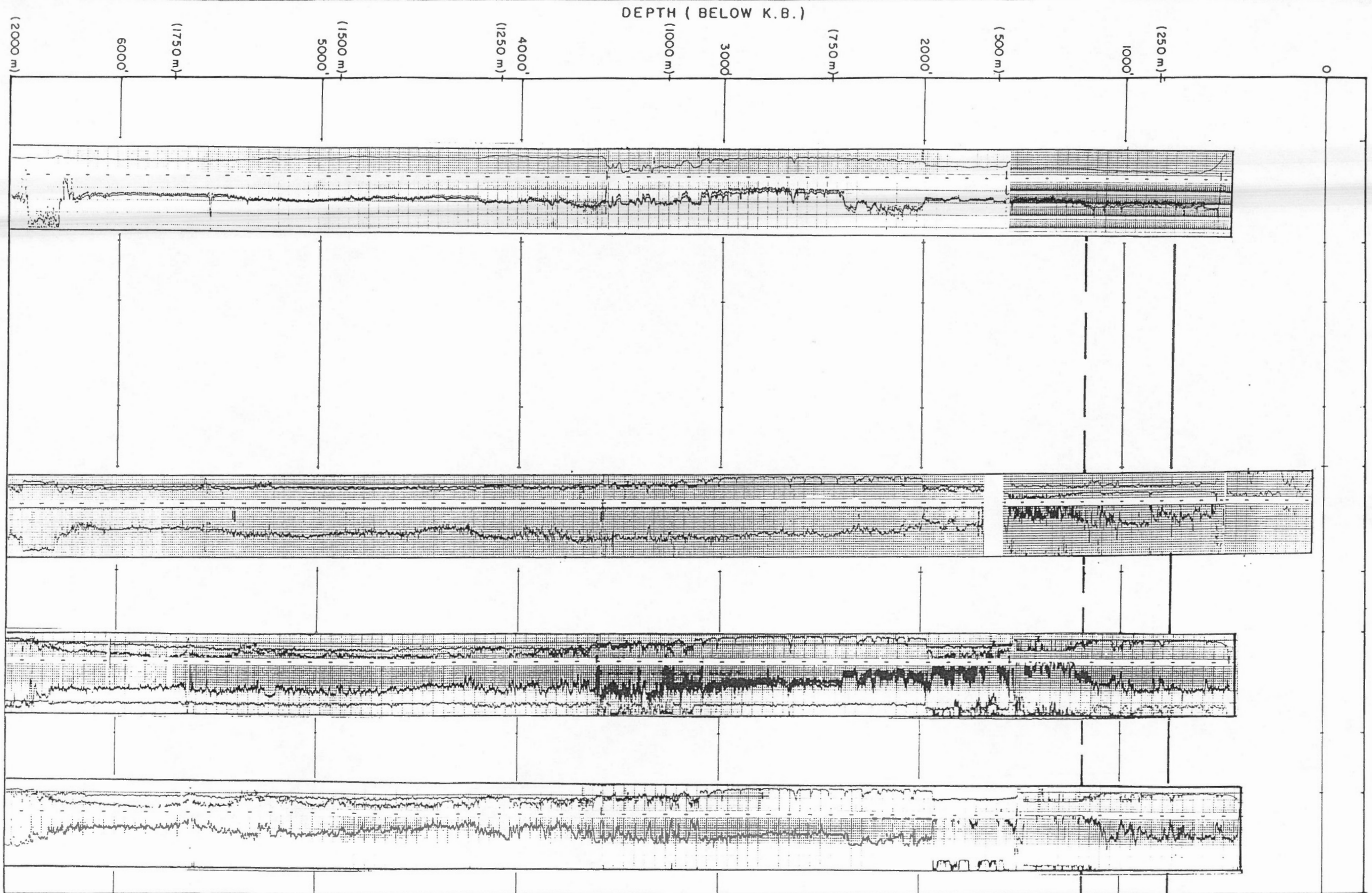
(B)

(C)

(D)

(E)

PERMAFROST
HYDRATES



1BPF: 750'

Base Trans: 1200'

Possible Hydrates:
915' ±
1150' ±

DEPTH (BELOW K.B.)

(2000 m)

6000'

(1750 m)

5000'

(1500 m)

4000'

(1250 m)

3000'

(1000 m)

2000'

(500 m)

1000'

(250 m)

0

LOGS (LEFT TO RIGHT)

- (A) DILL
- (B) BHCS
- (C) FDEN
- (D) SNP
- (E)



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PERMAFROST/GAS HYDRATE STUDY
ARCTIC ISLANDS
KING CHRISTIAN N-06

CG10095

PLATE 97

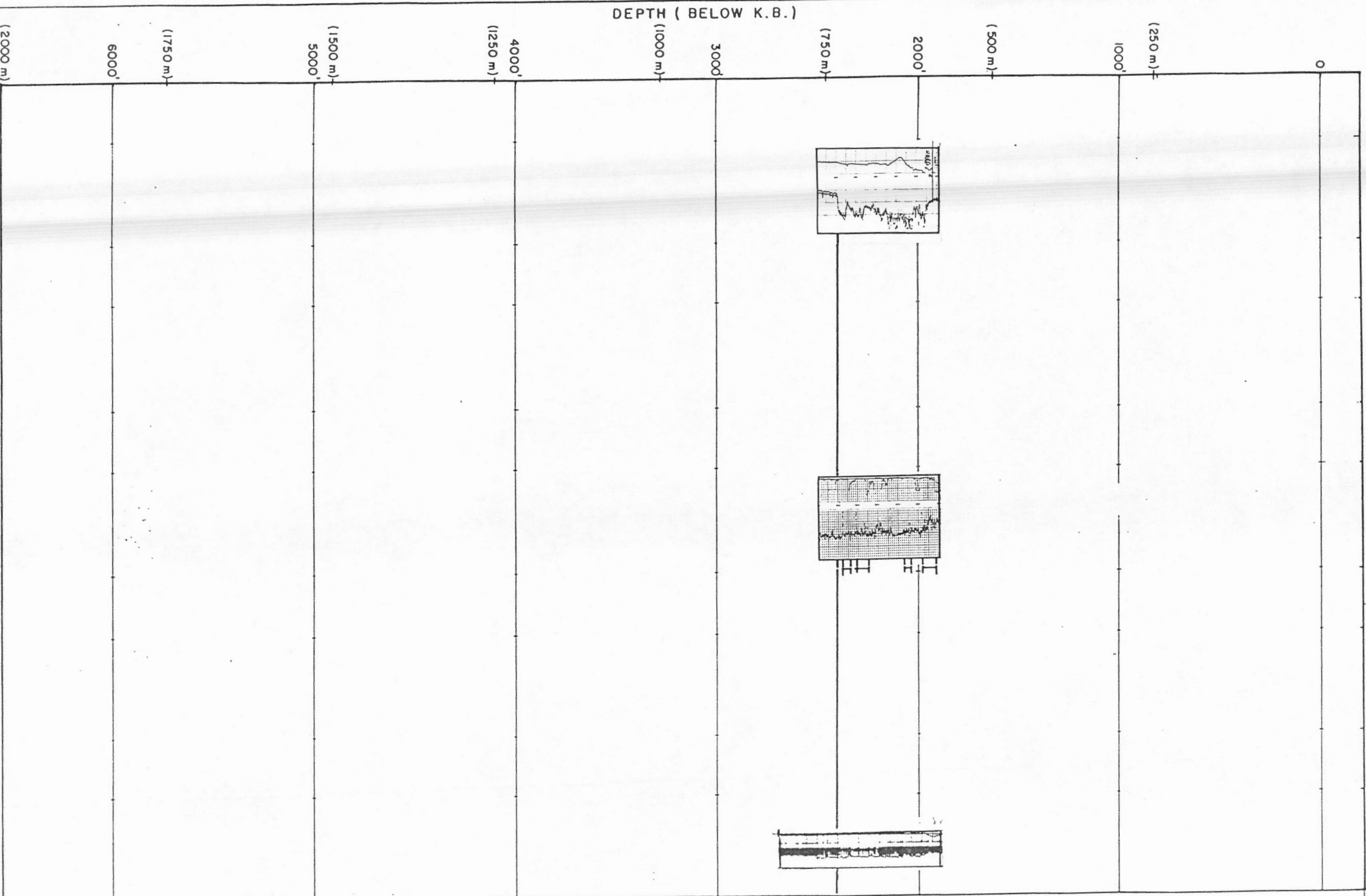
(A)

(B)

(C)

(D)

(E)



DEPTH (BELOW K.B.)

(2000 m)

6000'

(1750 m)

5000'

(1500 m)

4000'

(1250 m)

3000'

(1000 m)

2000'

1750'

(500 m)

1000'

(250 m)

0

LOGS (LEFT TO RIGHT)

(A) DILL

(B) BHCS

(C) SNP

(D) SNP



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PERMAFROST/GAS HYDRATE STUDY

ARCTIC ISLANDS

KING CHRISTIAN D-18A

CG

5

TE

(A)

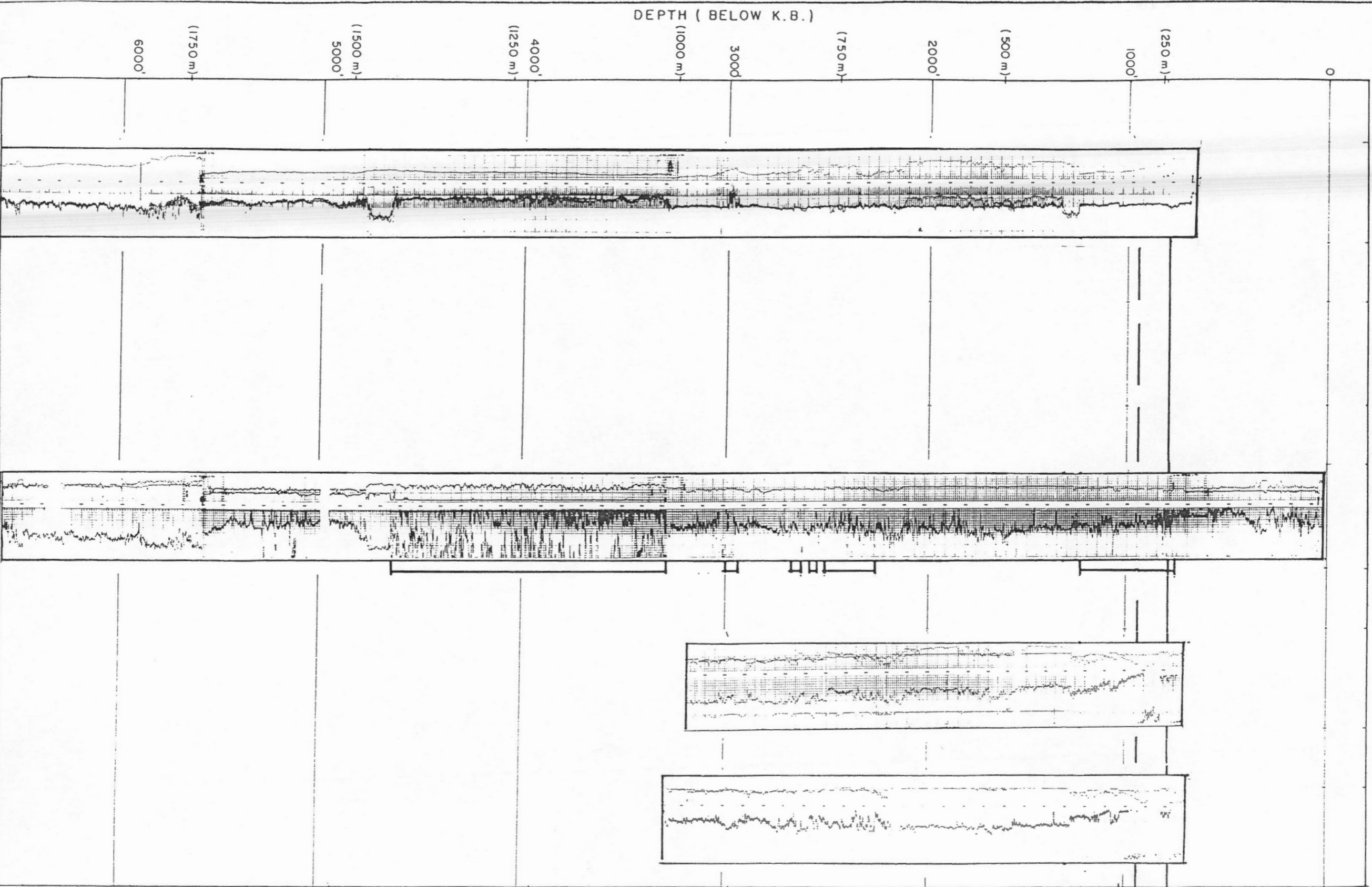
(B)

(C)

(D)

(E)

PERMAFROST /
HYDRATES



? Hydrates:

770' - 1270'

1BPF: 830'

Base Trans: 950'

E.P.B. 0°C: 1020'

Hydrates:

2250' - 2500'

? Hydrates:

2950' - 2990'

Possible Hydrates:

3260' - 4650'

LOGS (LEFT TO RIGHT)

- (A) DILL
- (B) BHCS
- (C) FD
- (D) SNP
- (E)



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PERMAFROST / GAS HYDRATE STUDY

ARCTIC ISLANDS

SUTHERLAND O-23

CG10095

PLATE 100

A

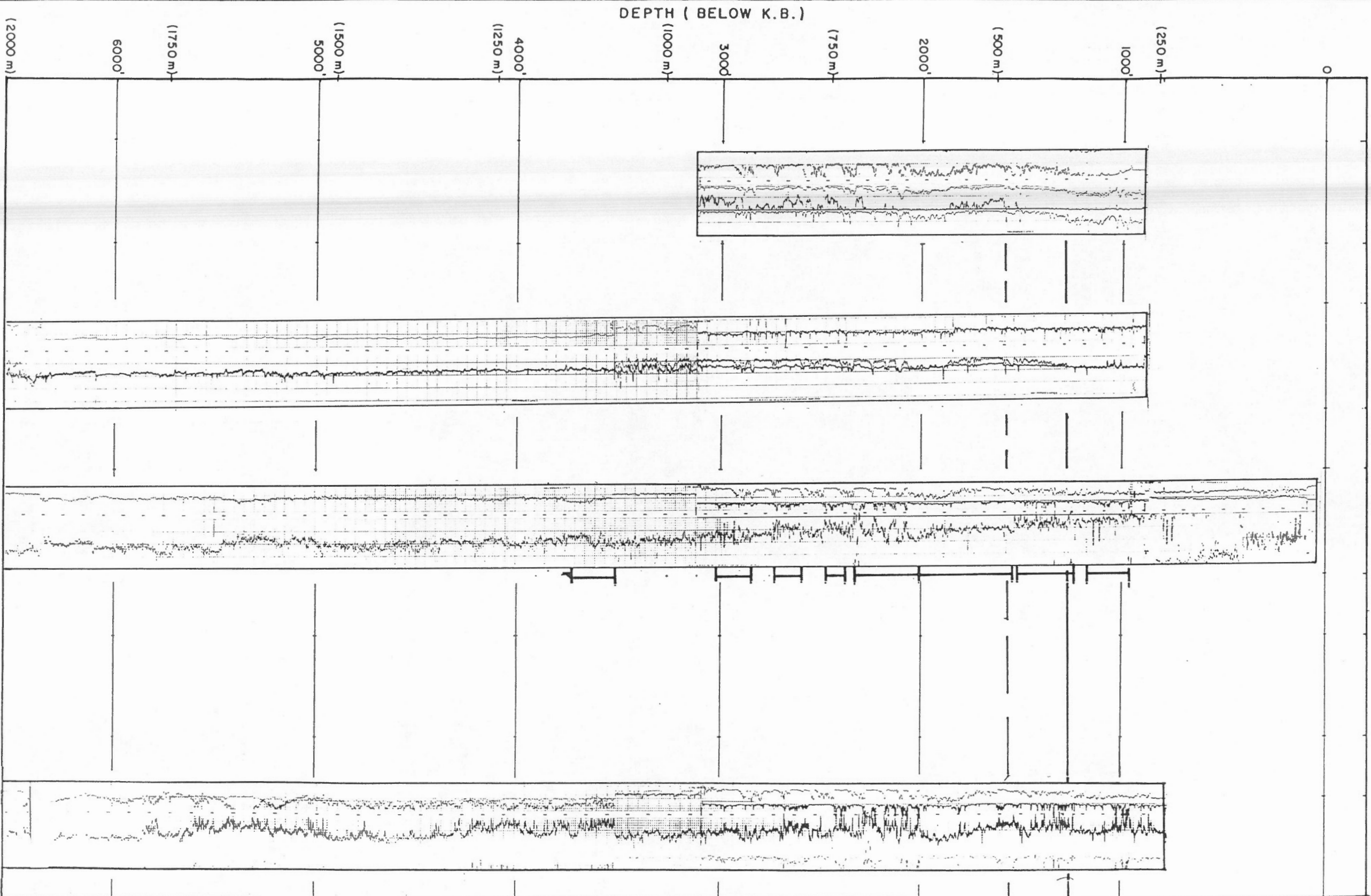
B

C

D

E

PERMAFROST
HYDRATES



Possible Hydrates:
960' - 1170'

1BPF: 1290' - 1300'

Hydrates:
1260' - 1550'

Base Trans: 1610'

? Hydrates:
2085' - 2360'

Hydrates:
2420' - 2510'
2630' - 2770'

Hydrate Traces:
2850' - 3050'

? Hydrates:
3563' - 3810'

LOGS (LEFT TO RIGHT)

- A E LOG
- B DILL
- C BHCS
- D
- E FDEN



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PERMAFROST / GAS HYDRATE STUDY

ARCTIC ISLANDS

WALLIS K-62

CG10095

PLATE 101

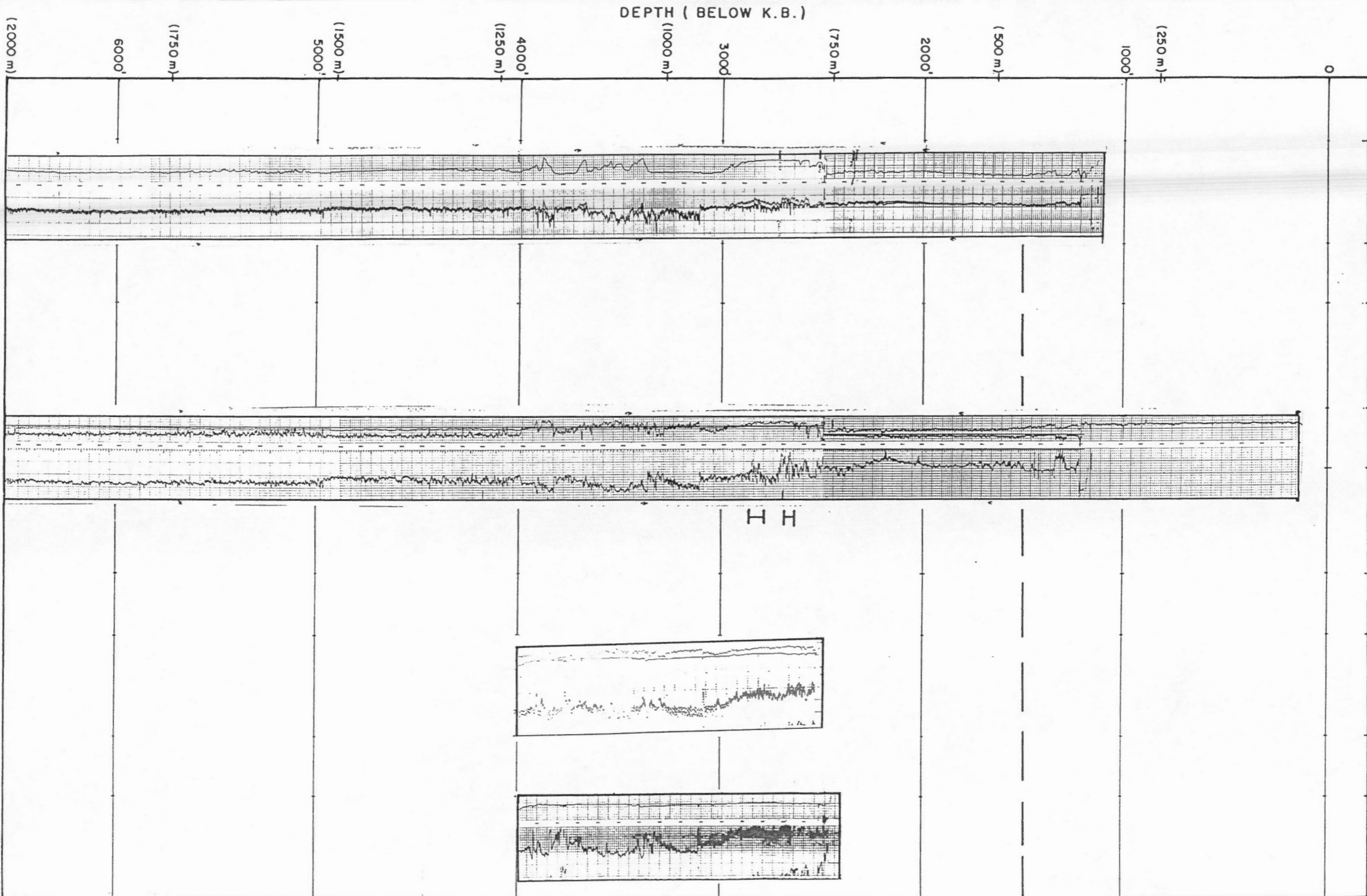
(A)

(B)

(C)

(D)

(E)



DEPTH (BELOW K.B.)

0
(250 m)
1000'
(500 m)
2000'
(750 m)
3000'
(1000 m)
4000'
(1250 m)
5000'
(1500 m)
6000'
(1750 m)
(2000 m)

Base Trans: 1480'

IBPF: < 1202'

Possible Hydrates:
2650' - 2880'

LOGS (LEFT TO RIGHT)

- (A) DILL
- (B) BHCS
- (C) FDEN
- (D) SNP
- (E) SNP



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PERMAFROST/GAS HYDRATE STUDY

ARCTIC ISLANDS

WILKINS E-60

CG10095

PLATE 102

(A)

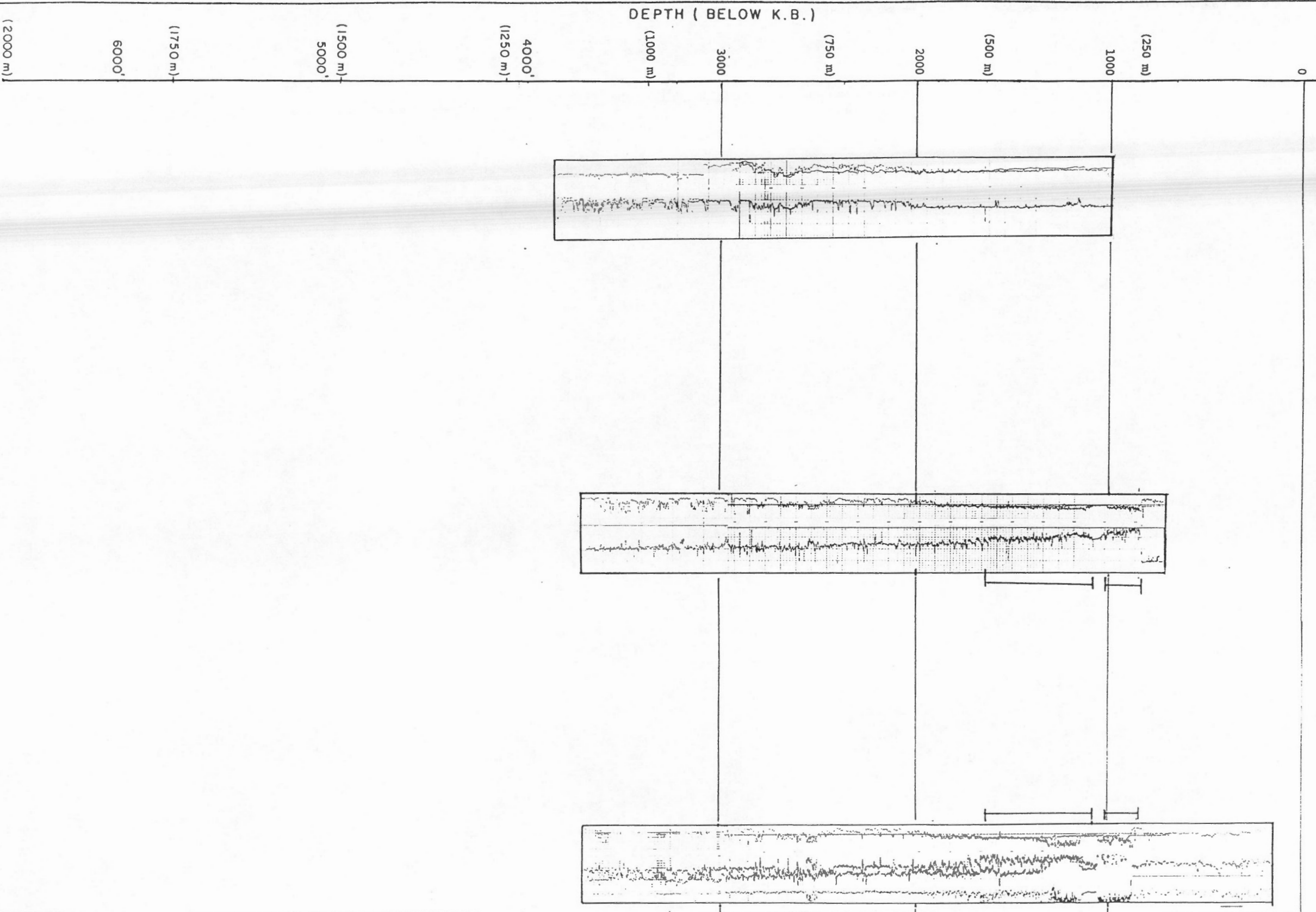
(B)

(C)

(D)

(E)

PERMAFROST /
HYDRATES



1BPF: above log
top (239 m)

Poss. Hydrates:
239 - 305 m
340 - 497 m

LOGS (LEFT TO RIGHT)

- (A) DLL
- (B) LSS
- (C) LSS
- (D) LSS
- (E) LSS



PERMAFROST/GAS HYDRATE STUDY
ARCTIC ISLANDS
HOODOO E-05

(A)

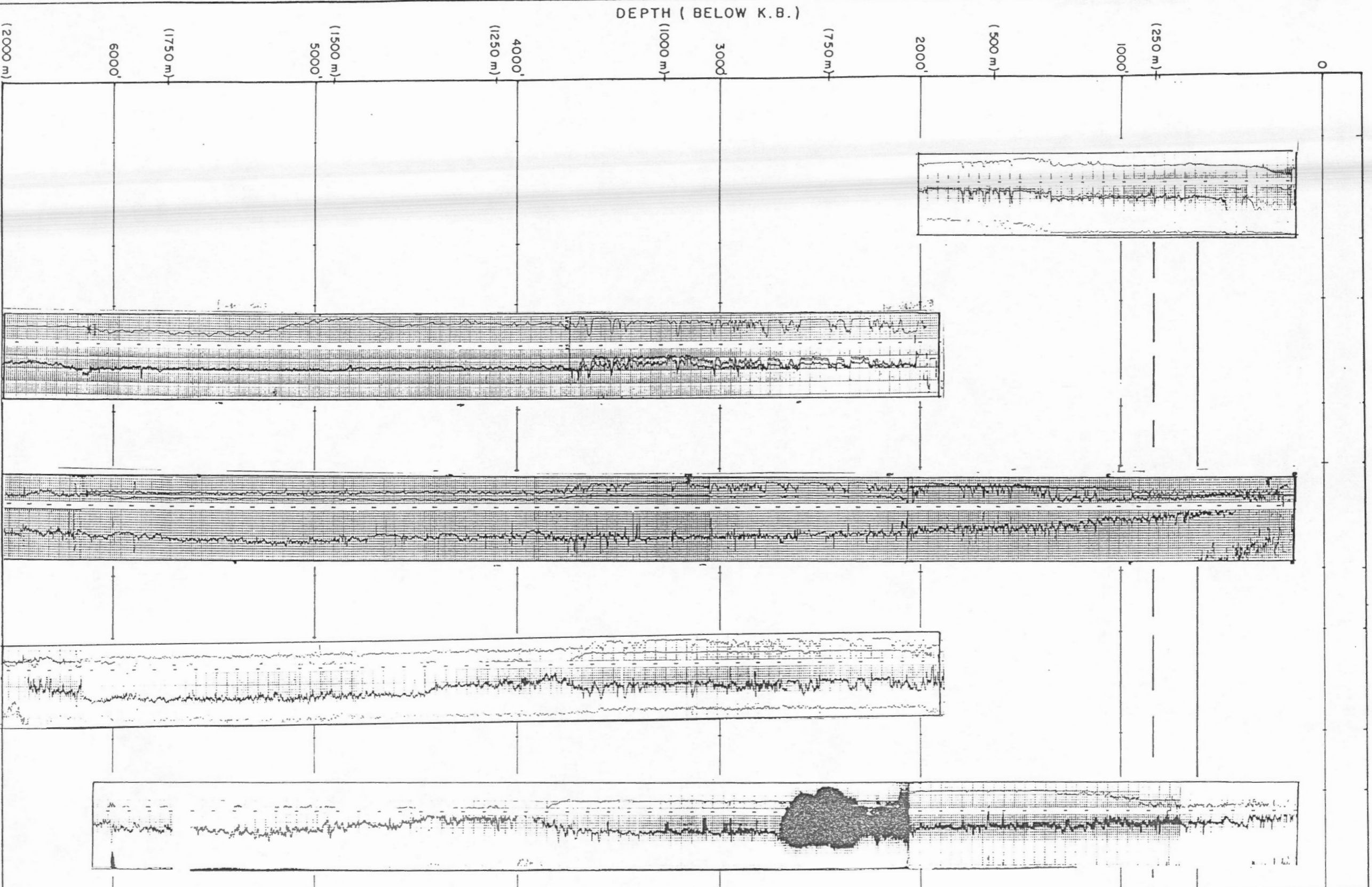
(B)

(C)

(D)

(E)

PERMAFROST /
HYDRATES



18PF: 650'

Base Trans: 850'

E.P.B.O °C: 988'

No Hydrates Logged

DEPTH (BELOW K.B.)

(2000 m)

6000'

(1750 m)

5000'

(1500 m)

4000'

(1250 m)

3000'

(1000 m)

(750 m)

2000'

(500 m)

1000'

(250 m)

0

LOGS (LEFT TO RIGHT)

- (A) IES
- (B) DILL
- (C) BHCS
- (D) FDEN
- (E) SNP



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PERMAFROST/GAS HYDRATE STUDY

ARCTIC ISLANDS

HOODOO DOME H-37

CG10095

PLATE 104

(A)

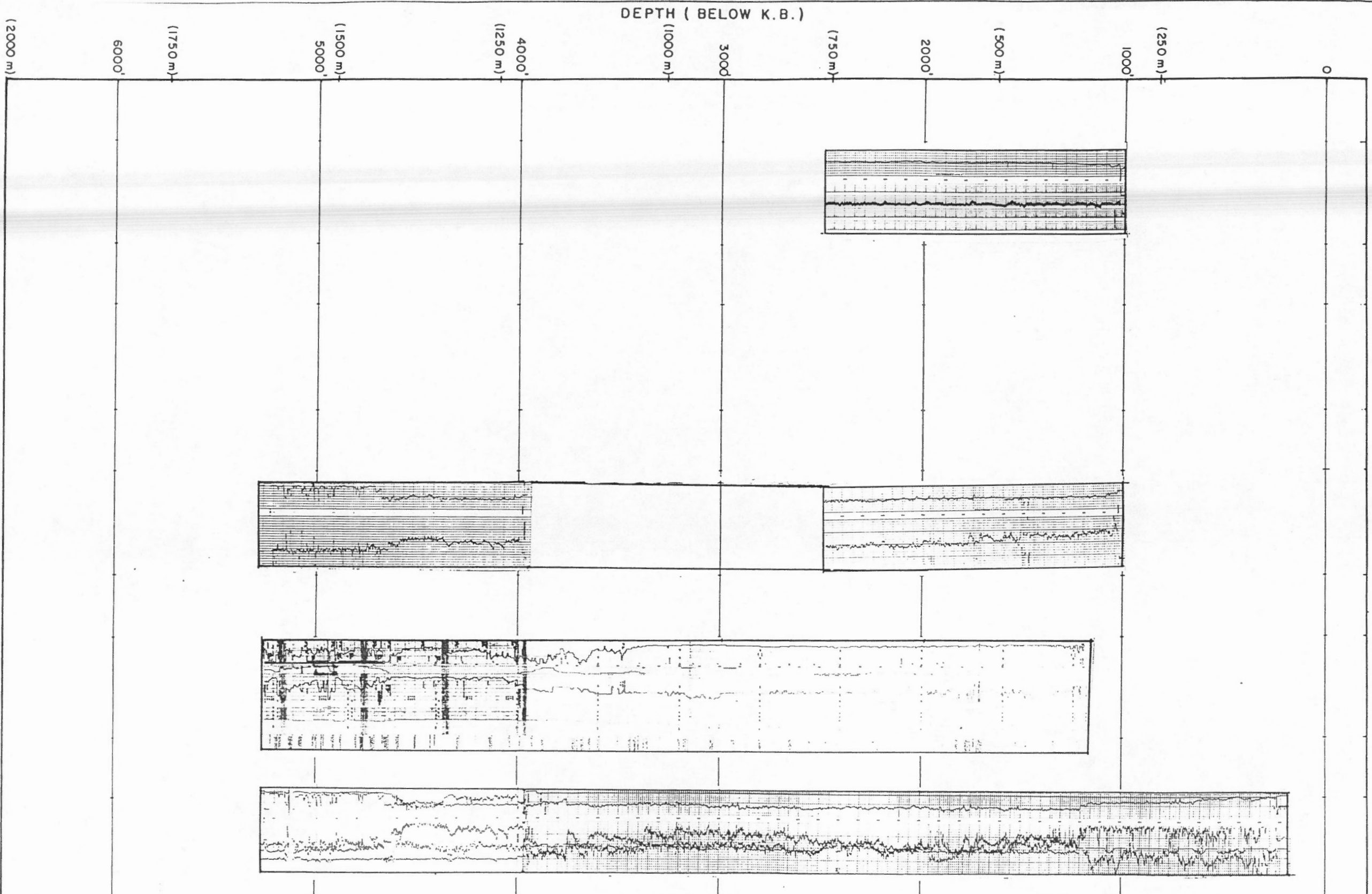
(B)

(C)

(D)

(E)

PERMAFROST /
HYDRATES



IBPF: < 1029'
(above log tops)

No Hydrates Logged

LOGS (LEFT TO RIGHT)

- (A) DILL
- (B) BHCS
- (C) MUD
- (D) CNFD
- (E)



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PERMAFROST/GAS HYDRATE STUDY

ARCTIC ISLANDS
JACKSON G-16

CG10095

PLATE 105

(A)

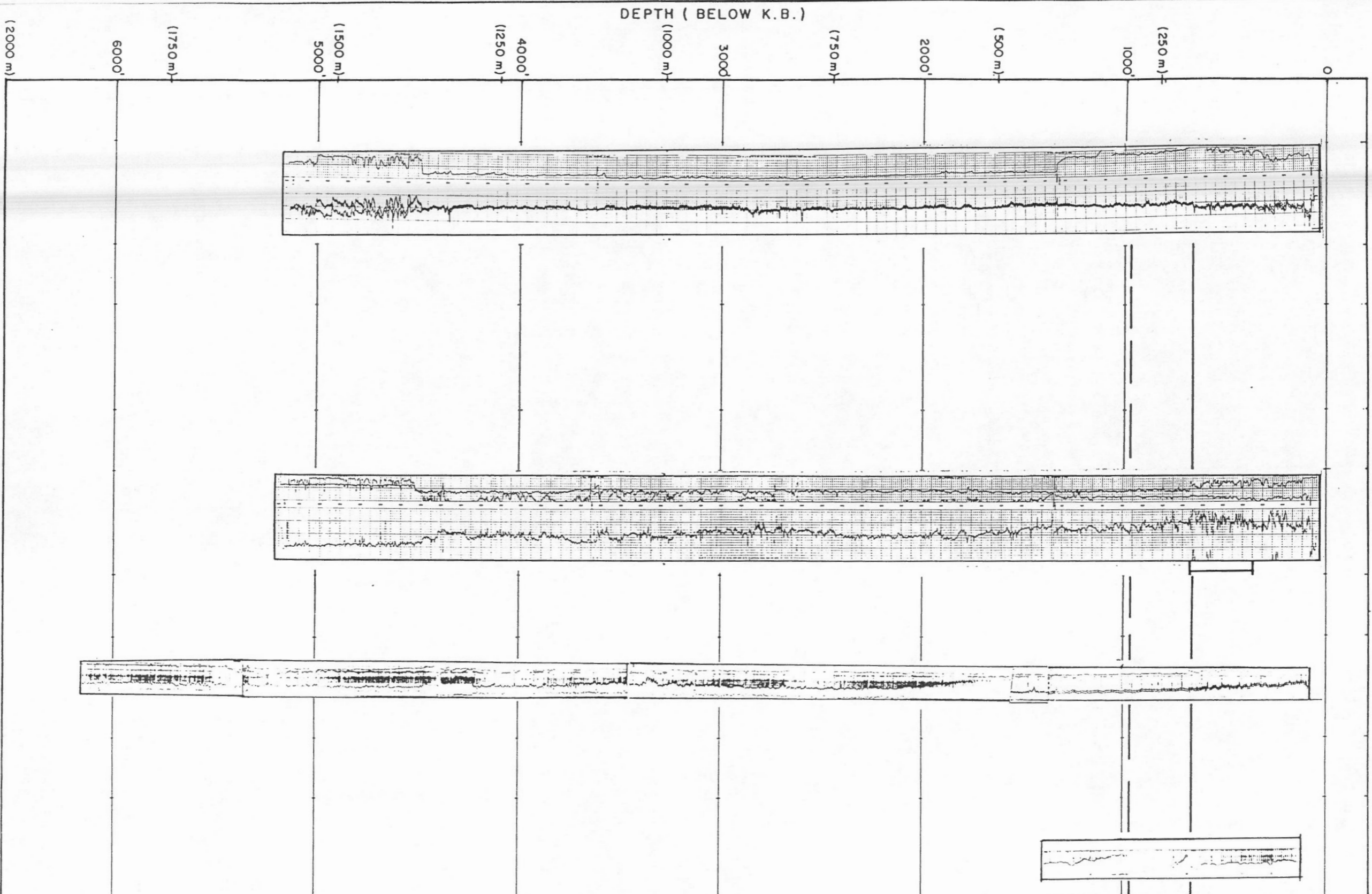
(B)

(C)

(D)

(E)

PERMAFROST /
HYDRATES



Hydrates:
340' - 670'

IBPF: 670'

Base Trans: 970'

LOGS (LEFT TO RIGHT)

(A) DILL

(B) BHCS

(C) CNFD

(D) TEMP



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PERMAFROST/GAS HYDRATE STUDY

ARCTIC ISLANDS

ELVE M-40

CG10095

PLATE 10A

(A)

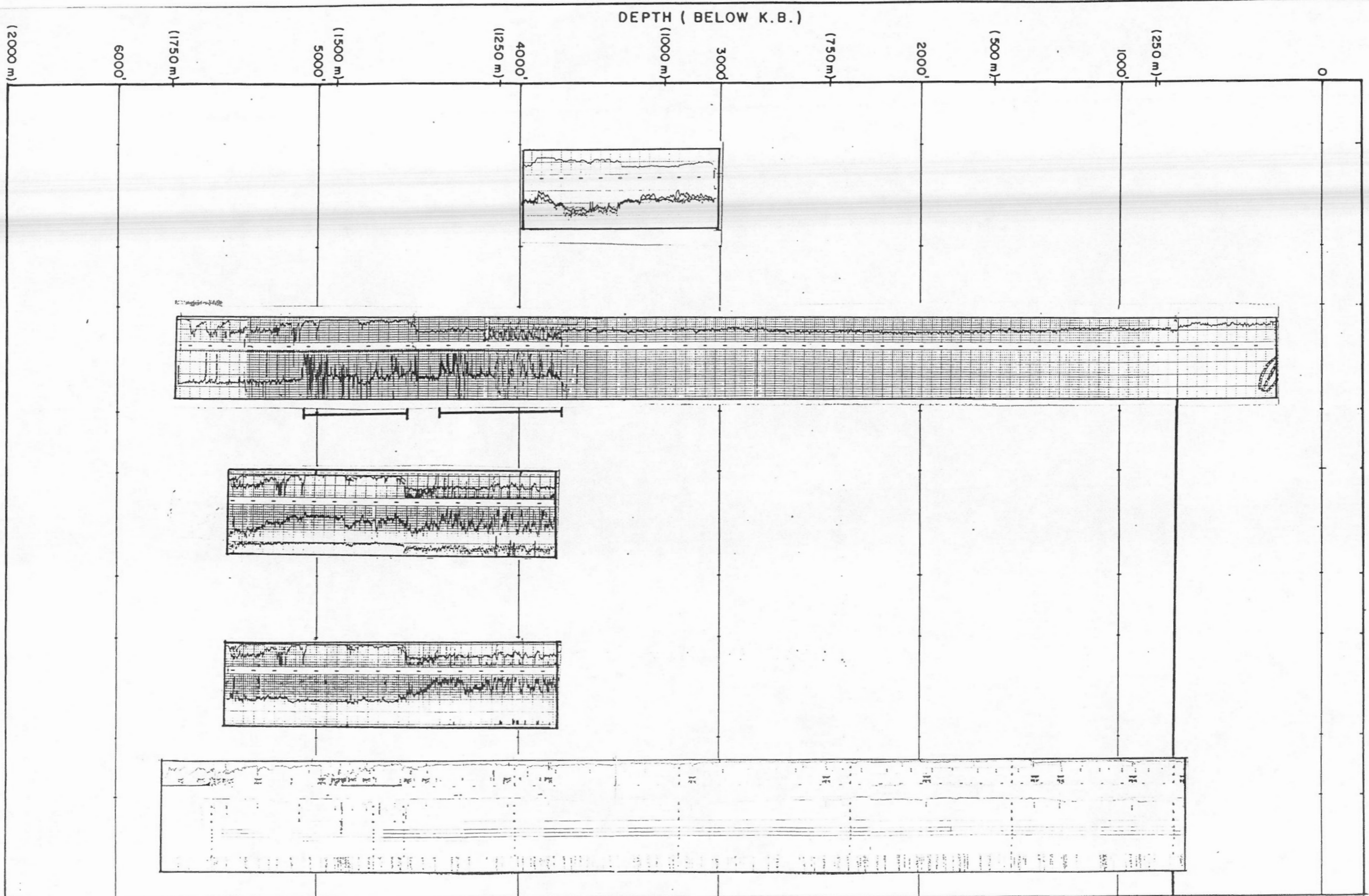
(B)

(C)

(D)

(E)

PERMAFROST /
HYDRATES



? Hydrates:
380' - 4450'
(3080' - 3410' TVD)

? Hydrates:
4610' - 5125'
(3522' - 3856' TVD)

LOGS (LEFT TO RIGHT)

- (A) DILL
- (B) BHCS
- (C) FDEN
- (D) SNP
- (E) HUD



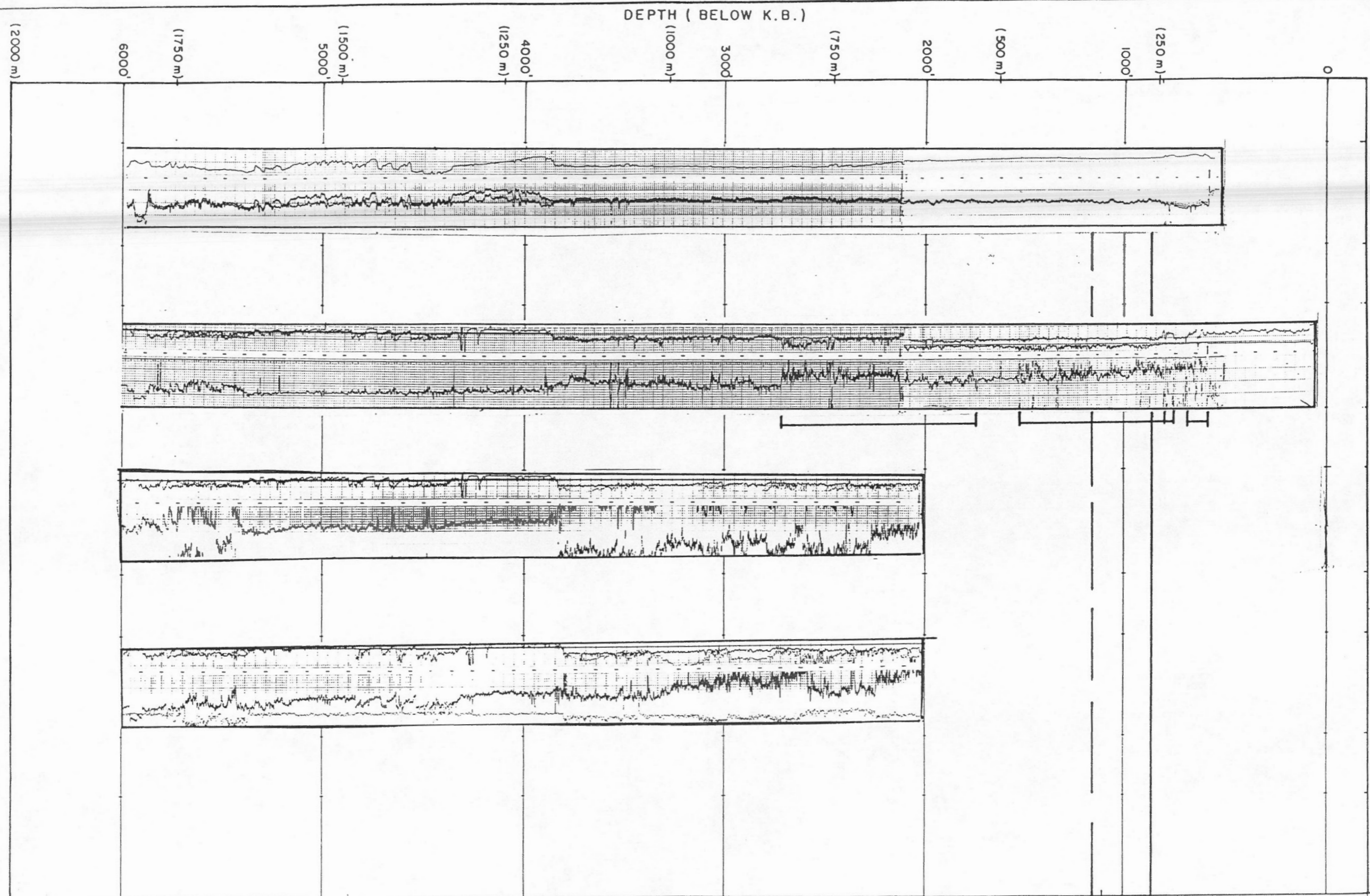
HARDY ASSOCIATES (1978) LTD.
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PERMAFROST/GAS HYDRATE STUDY
ARCTIC ISLANDS
THOR H-28

CG10005

(A) (B) (C) (D) (E)

PERMAFROST /
HYDRATES



Hydrates:
540' - 650'

? Hydrates:
710' - 770'

IBPF: 830'

E.P.B. 0°C: 1086'

Base Trans: 1130'

Possible Hydrates:
770' - 1500'
1700' - 2700'

DEPTH (BELOW K.B.)

(2000 m)

6000'

(1500 m)
5000'

(1250 m)
4000'

(1000 m)
3000'

(750 m)
2000'

(500 m)
1000'

(250 m)
0

LOGS (LEFT TO RIGHT)

- (A) DILL
- (B) BHCS
- (C) FDEN
- (D) SNP
- (E) MUD



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PERMAFROST/GAS HYDRATE STUDY

ARCTIC ISLANDS

THOR P-38

CG10095

PLATE 108

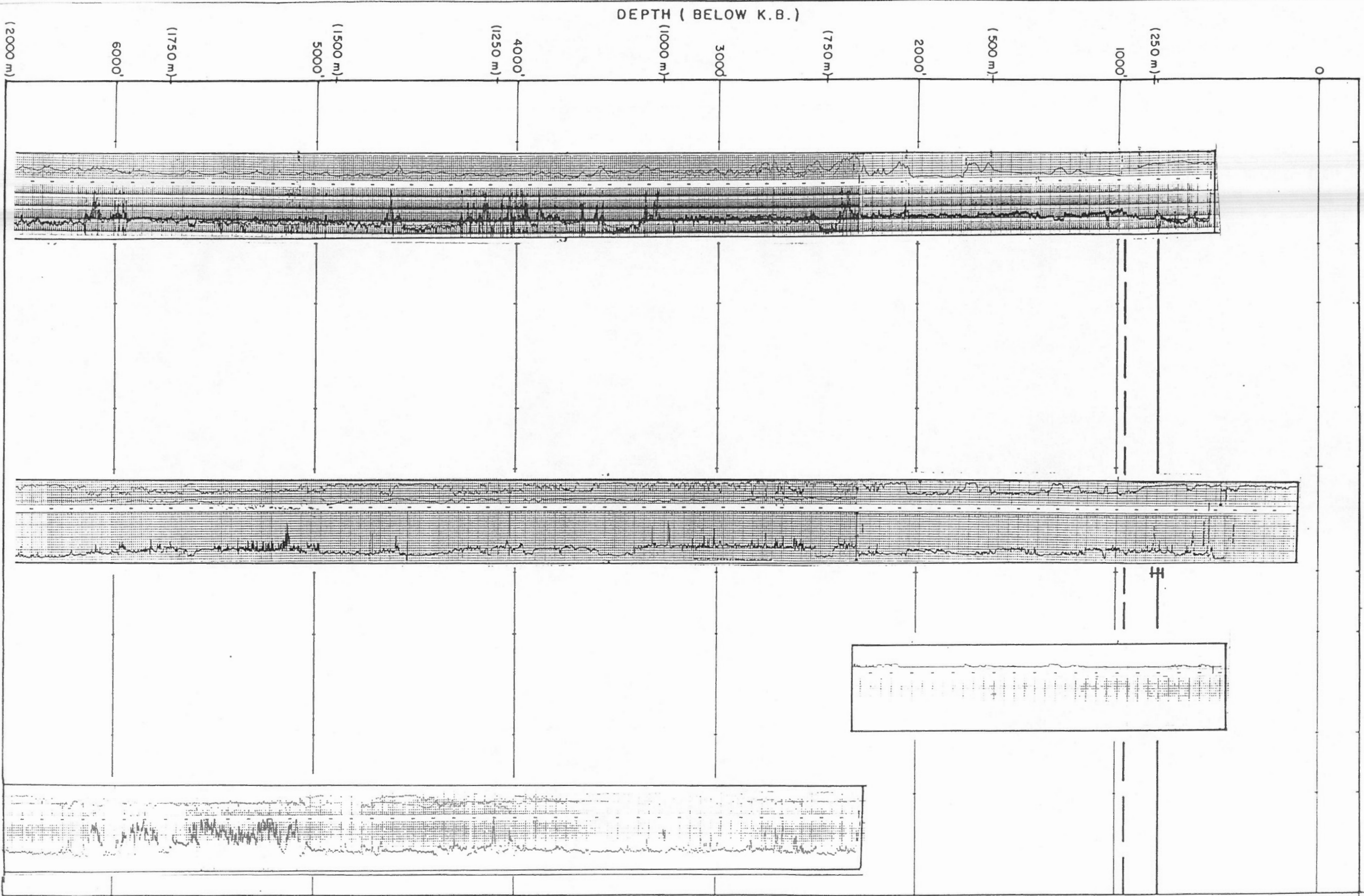
(A)

(B)

(C)

(D)

(E)



IBPF: 810'
Possible Hydrate:
820'
LBase Trans: 980'

LOGS (LEFT TO RIGHT)

- (A) DILL
- (B) BHCS
- (C) FDEN
- (D) SNP



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PERMAFROST/GAS HYDRATE STUDY
ARCTIC ISLANDS
SHERWOOD P-37

CG10095

PLATE 109

(A)

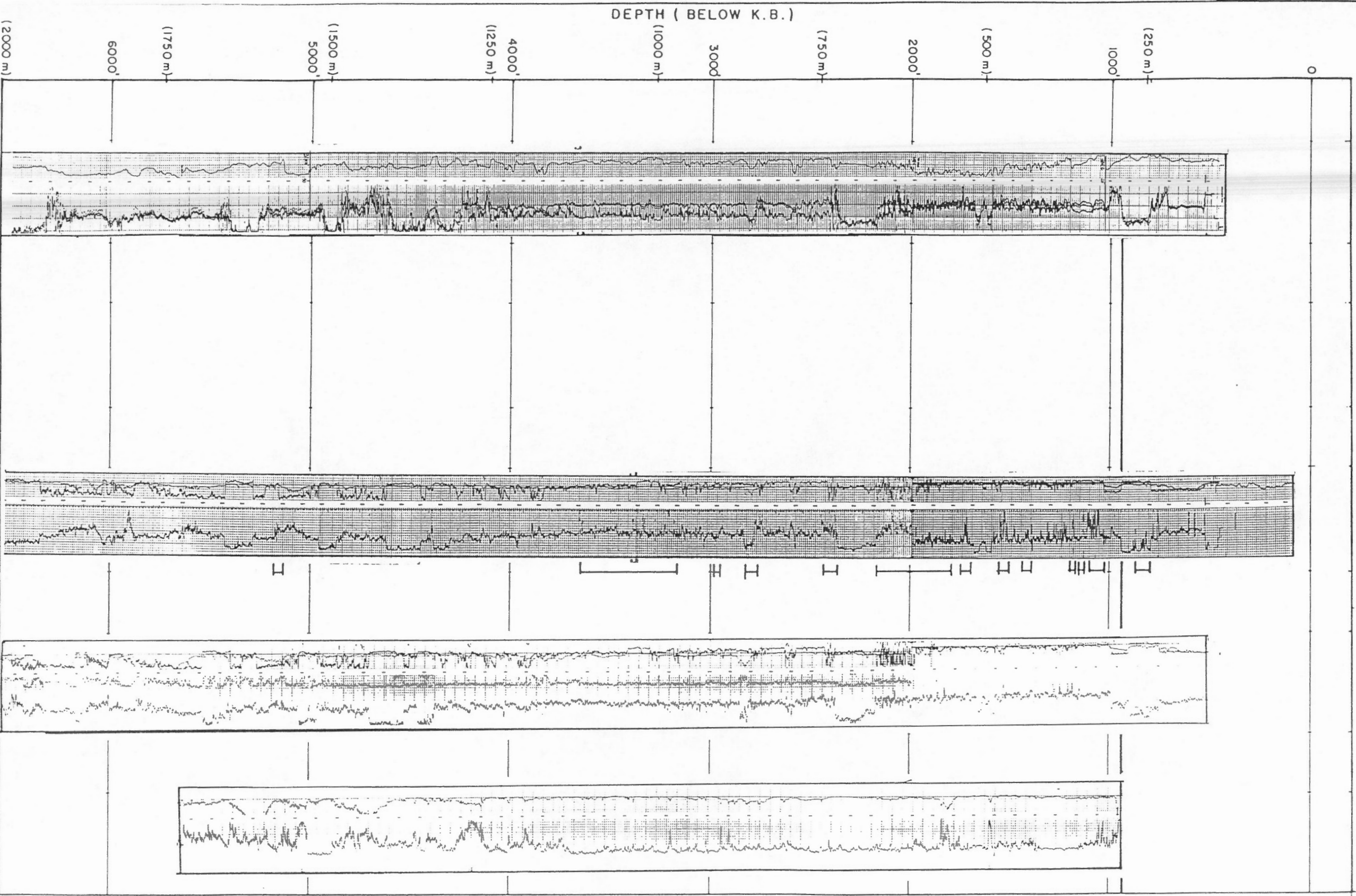
(B)

(C)

(D)

(E)

PERMAFROST /
HYDRATES



Possible Hydrate:
810' - 880'

IBPF: 935'

Hydrate:
1050' - 1190'

Possible Hydrate:
1415' - 1435'

? Hydrate:
1515' - 1435'
1730' - 1750'

Possible Hydrate:
1800' - 2190'

Ice: 2190' - 2390'

? Hydrate:
2435' - 2470'

? Hydrate:
2800' - 2825'

? Hydrate:
3365' - 3380'

Possible Hydrate
(Traces):
3200' - 3700'

Possible Hydrate:
5225' - 5240'

LOGS (LEFT TO RIGHT)

- (A) DILL
- (B) BHCS
- (C) FDEN
- (D) SNP
- (E)



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PERMAFROST/GAS HYDRATE STUDY
ARCTIC ISLANDS

AMUND CENTRAL DOME H-40

CG10095

PLATE 110

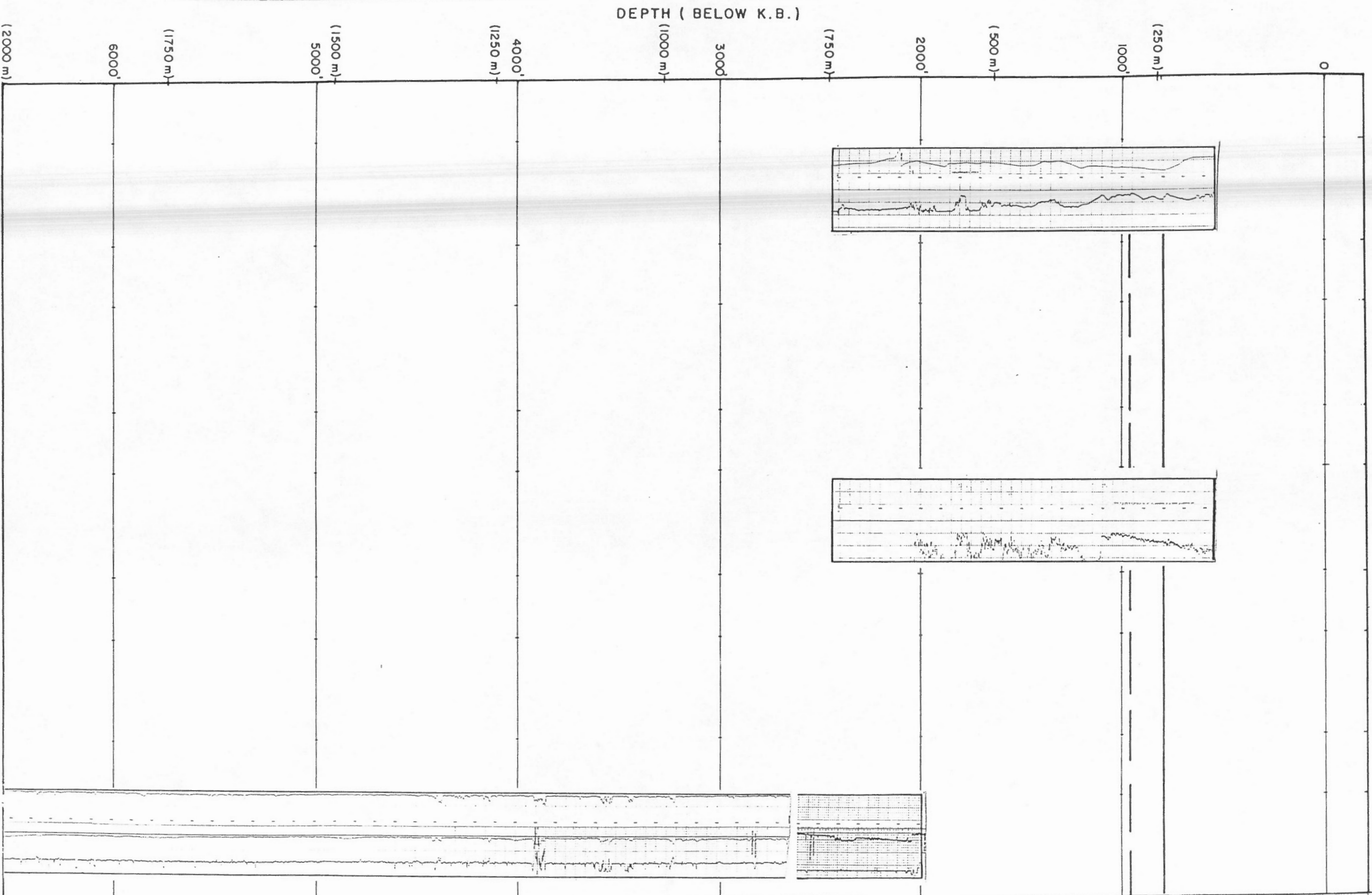
(A)

(B)

(C)

(D)

(E)



IBPF: 790'
Base Trans: 970'
Possible Hydrates:
580' - 795'

LOGS (LEFT TO RIGHT)

(A) DLL (shallow)

(B) DLL (deep)

(C) DLL (deep)

(D) BHCs



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PERMAFROST/GAS HYDRATE STUDY

ARCTIC ISLANDS

HOODOO L-41

CG10095

PLATE 111

(A)

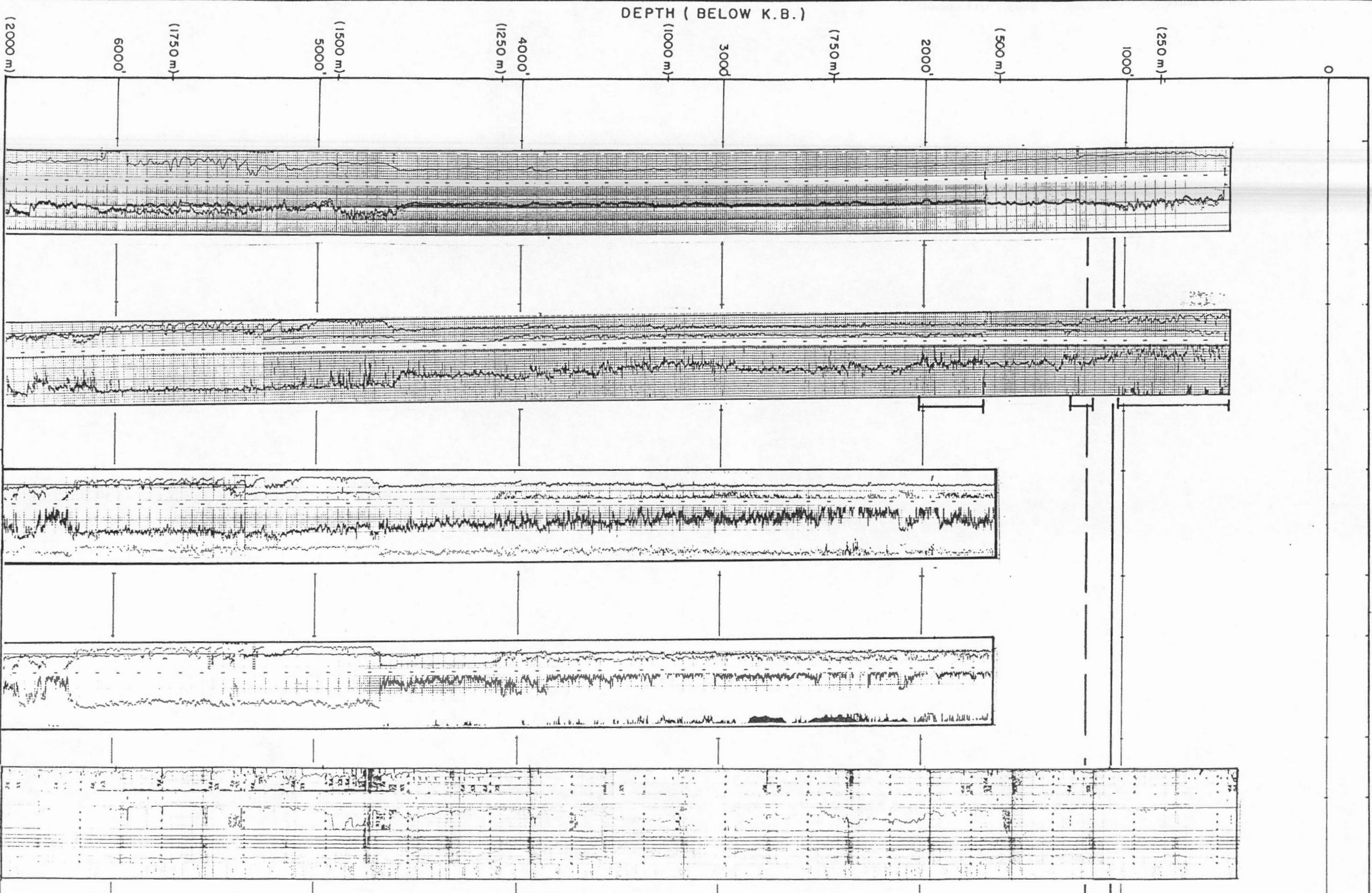
(B)

(C)

(D)

(E)

PERMAFROST
HYDRATES



Possible Hydrate:
504' - 1030'

IBPF: 1070'

Base Trans: 1235'

Possible Hydrate:
1220' - 1310'

Possible Hydrate:
1710' - 2030'

DEPTH (BELOW K.B.)

(2000 m)

6000'

(1750 m)

5000'

(1500 m)

4000'

(1250 m)

3000'

(1000 m)

(750 m)

2000'

(500 m)

1000'

(250 m)

0

LOGS (LEFT TO RIGHT)

- (A) DILL
- (B) BHCS
- (C) FDEN
- (D) SNP
- (E) MUD



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PERMAFROST/GAS HYDRATE STUDY

ARCTIC ISLANDS

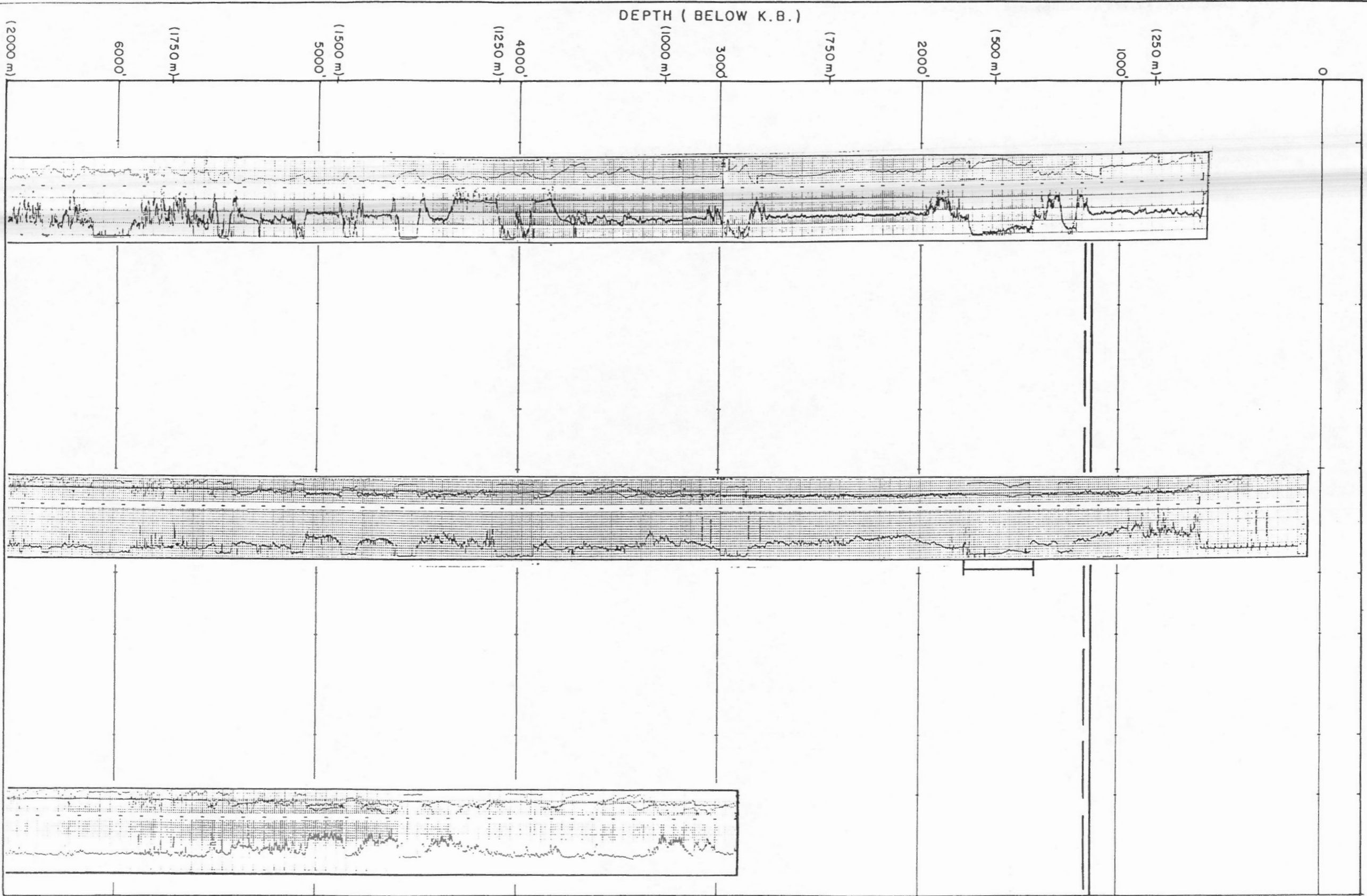
KRISTOFFER BAY G-06

CG10095

PLATE 112

PERMAFROST /
HYDRATES

(A) (B) (C) (D) (E)



18PF: 1170'
Base Trans: 1195'
Possible Hydrates:
1440' - 1770'

LOGS (LEFT TO RIGHT)
(A) DILL
(B) BHCS
(C) SNP
(D)
(E)



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PERMAFROST / GAS HYDRATE STUDY
ARCTIC ISLANDS
E. AMUND M-05

CG10095

PLATE 113

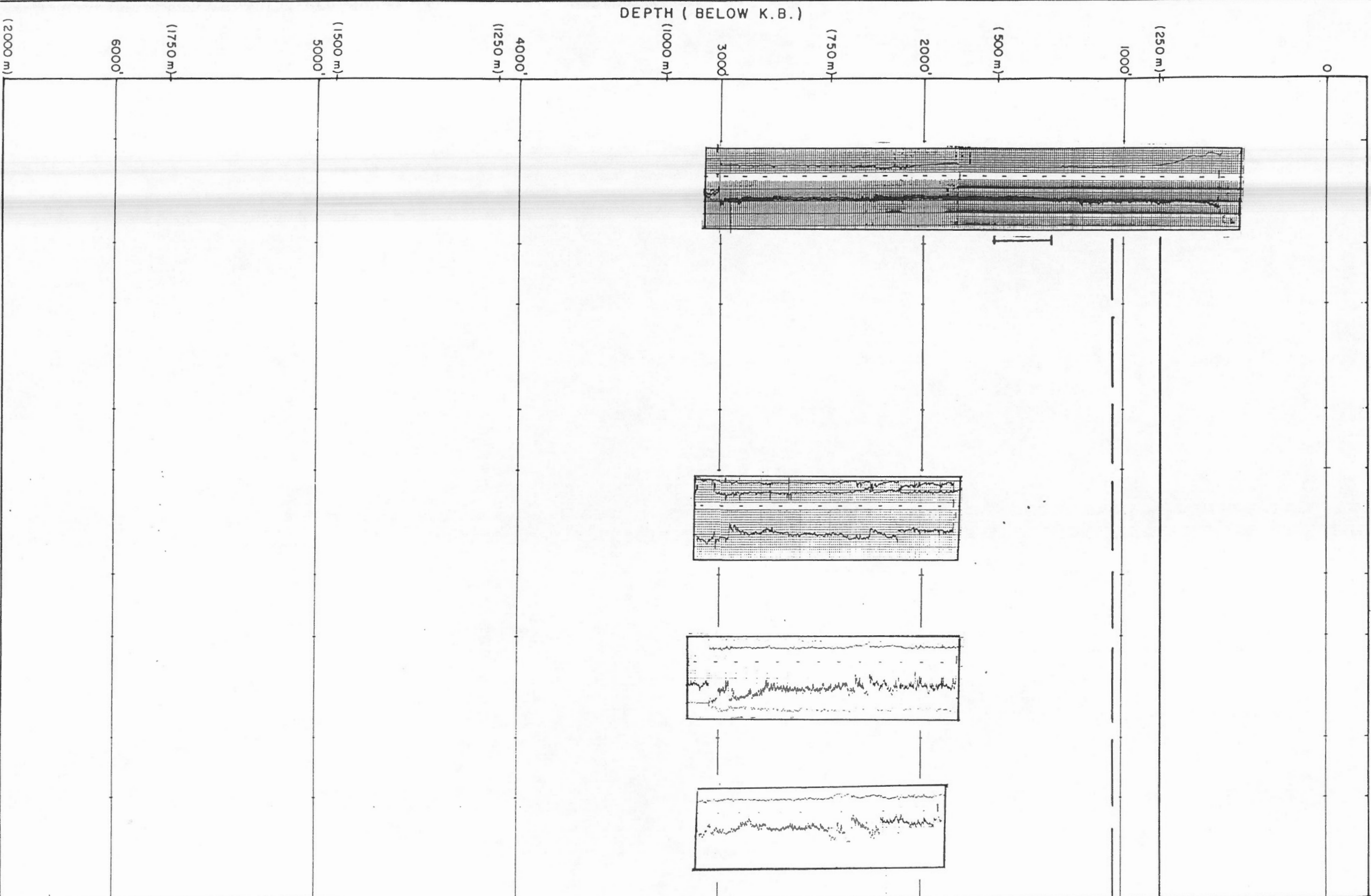
(A)

(B)

(C)

(D)

(E)



1BPF: 840'
Base Trans: 1050'
Possible Hydrates:
1345' - 1640'

(2000 m)

6000'

(1750 m)

(1500 m)
5000'

(1250 m)
4000'

(1000 m)
3000'

(750 m)

2000'

(500 m)

1000'

0

DEPTH (BELOW K.B.)

LOGS (LEFT TO RIGHT)

- (A) DILL
- (B) BHCS
- (C) FDEN
- (D) SNP
- (E)



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PERMAFROST/GAS HYDRATE STUDY

ARCTIC ISLANDS

WEST AMUND 1-44

CG10095

PLATE 114

A

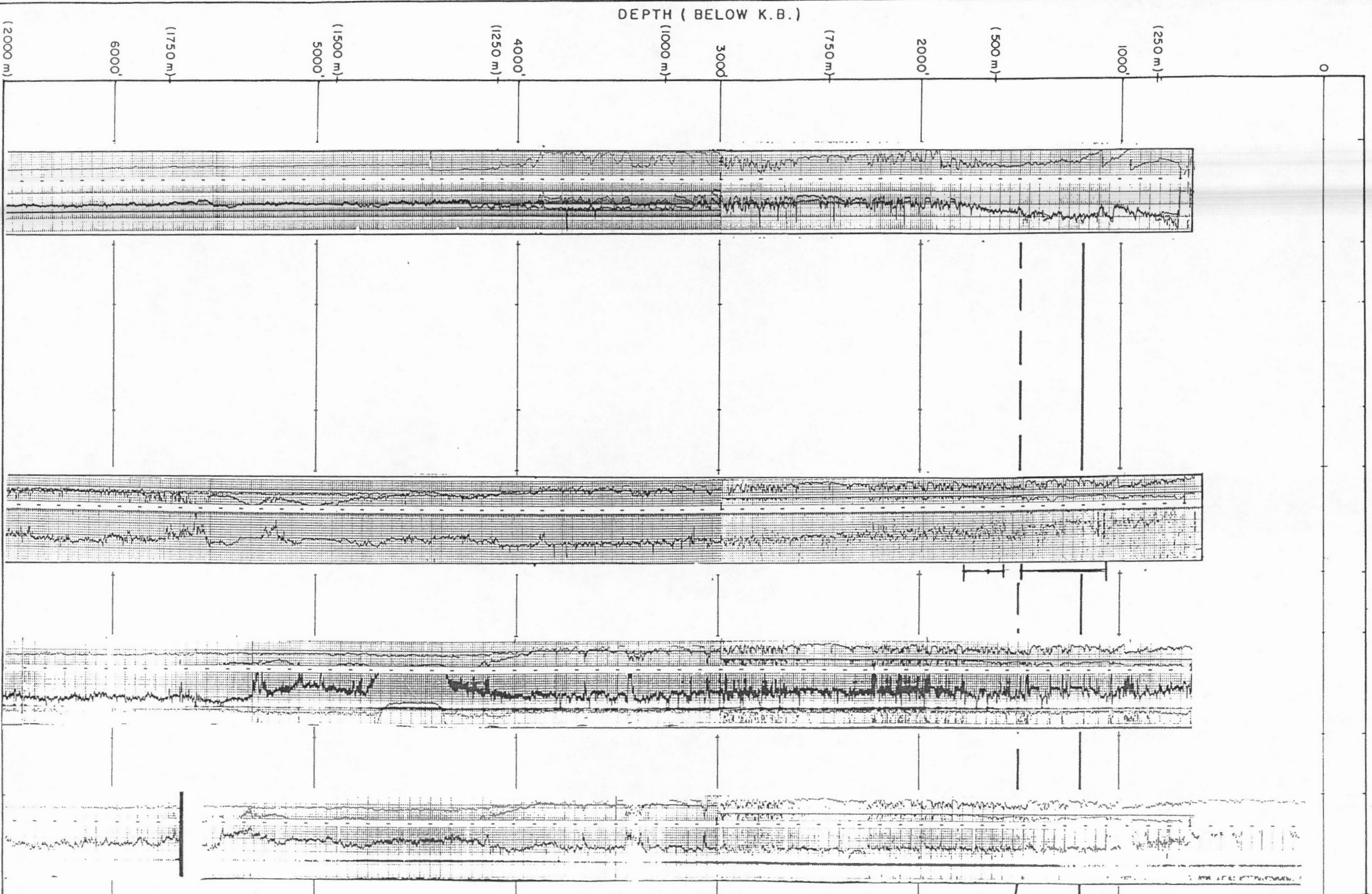
B

C

D

E

PERMAFROST
HYDRATES



Possible Hydrates:
1025' - 1490'
IBPF: 1200'

Base Trans: 1500'
Possible Hydrates:
1580' - 1740'

DEPTH (BELOW K.B.)

0
(250 m)
1000'
(500 m)
2000'
(750 m)
3000'
(1000 m)
4000'
(1250 m)
5000'
(1500 m)
6000'
(1750 m)
(2000 m)

LOGS (LEFT TO RIGHT)

- (A) DILL
- (B) BHCS
- (C) FDEN
- (D) SNP
- (E)



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PERMAFROST/GAS HYDRATE STUDY

ARCTIC ISLANDS
DUMBELLS E-49

CR-11995

DATE

A

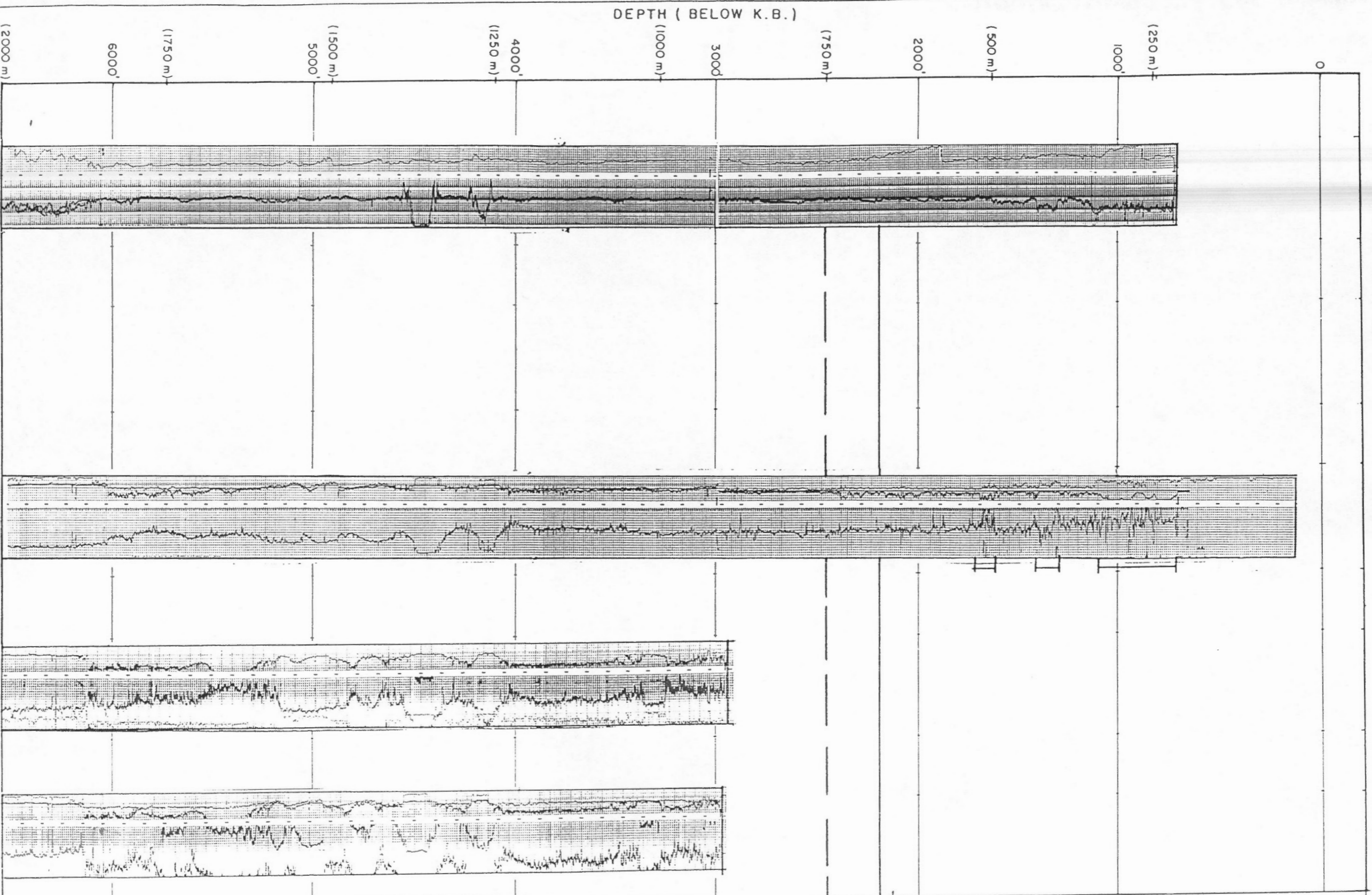
B

C

D

E

PERMAFROST /
HYDRATES



Possible Hydrates:
696' - 1700'

E.P.B. 0°C: 2149'
1BPF: 2170'

Base Trans: 2480'

DEPTH (BELOW K.B.)

0
 (250 m) 1000'
 (500 m) 2000'
 (750 m) 3000'
 (1000 m) 4000'
 (1250 m) 5000'
 (1500 m) 6000'
 (1750 m)
 (2000 m)

LOGS (LEFT TO RIGHT)

- (A) DILL
- (B) BHCS
- (C) FDEN
- (D) CMD



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PERMAFROST/GAS HYDRATE STUDY

ARCTIC ISLANDS
DOME BAY P-36

A

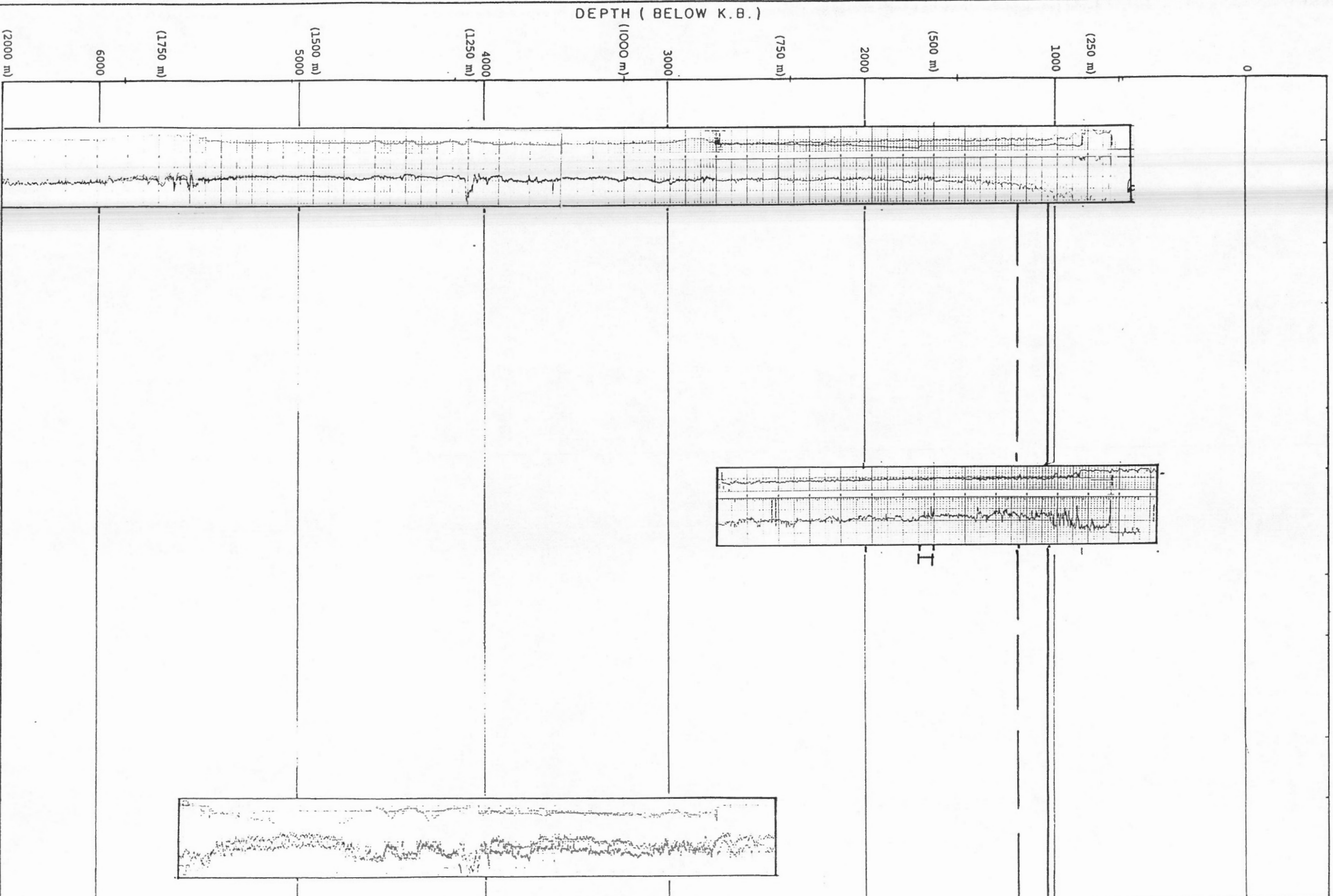
B

C

D

E

PERMAFROST /
HYDRATES



IBPF: 320 m
Base Trans: 365 m

Poss. Hydrates
500 - 517 m

DEPTH (BELOW K.B.)

(2000 m)

6000

(1750 m)

5000

(1500 m)

4000

(1250 m)

3000

(1000 m)

(750 m)

2000

(500 m)

1000

(250 m)

0

LOGS (LEFT TO RIGHT)

(A) DLL

(B) BHCS (long spaced)

(C)



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PERMAFROST/GAS HYDRATE STUDY

ARCTIC ISLANDS

NOICE D-41

Cor 0095

PLATE 117

(A)

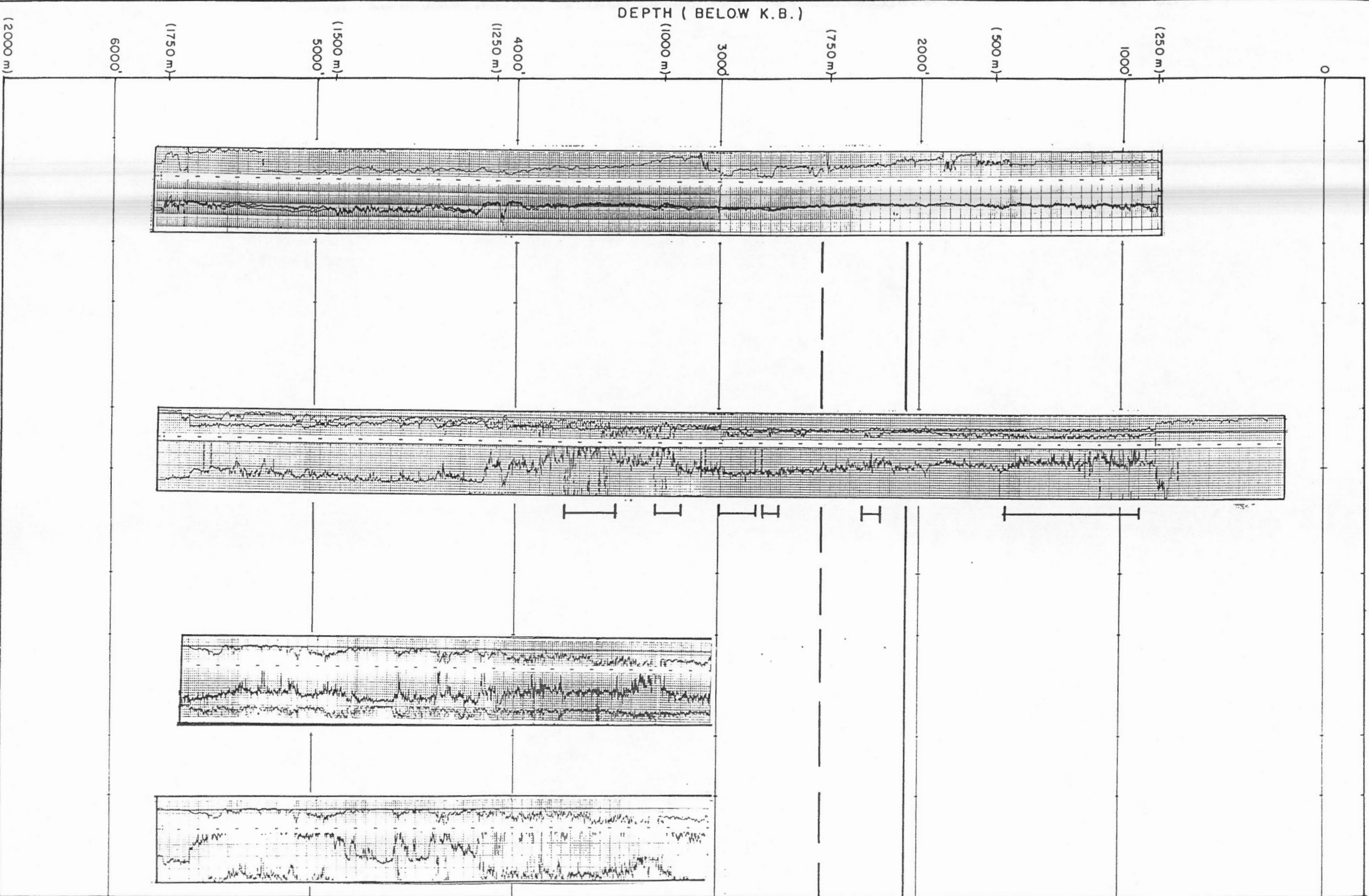
(B)

(C)

(D)

(E)

PERMAFROST /
HYDRATES



Possible Hydrates:
895' - 1555'

1BPF: 2060'

Base Trans: 2520'
Possible Hydrates:
2710' - 3780'
(Scattered)

(2000 m)

6000'

(1750 m)

(1500 m)

5000'

4000'

(1250 m)

(1000 m)

3000'

(750 m)

2000'

(500 m)

1000'

0

LOGS (LEFT TO RIGHT)

(A) DILL

(B) BHCS

(C) FDEN

(D) SNP



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PERMAFROST/GAS HYDRATE STUDY
ARCTIC ISLANDS
NOICE G-44

CG10095

PLATE 118

(A)

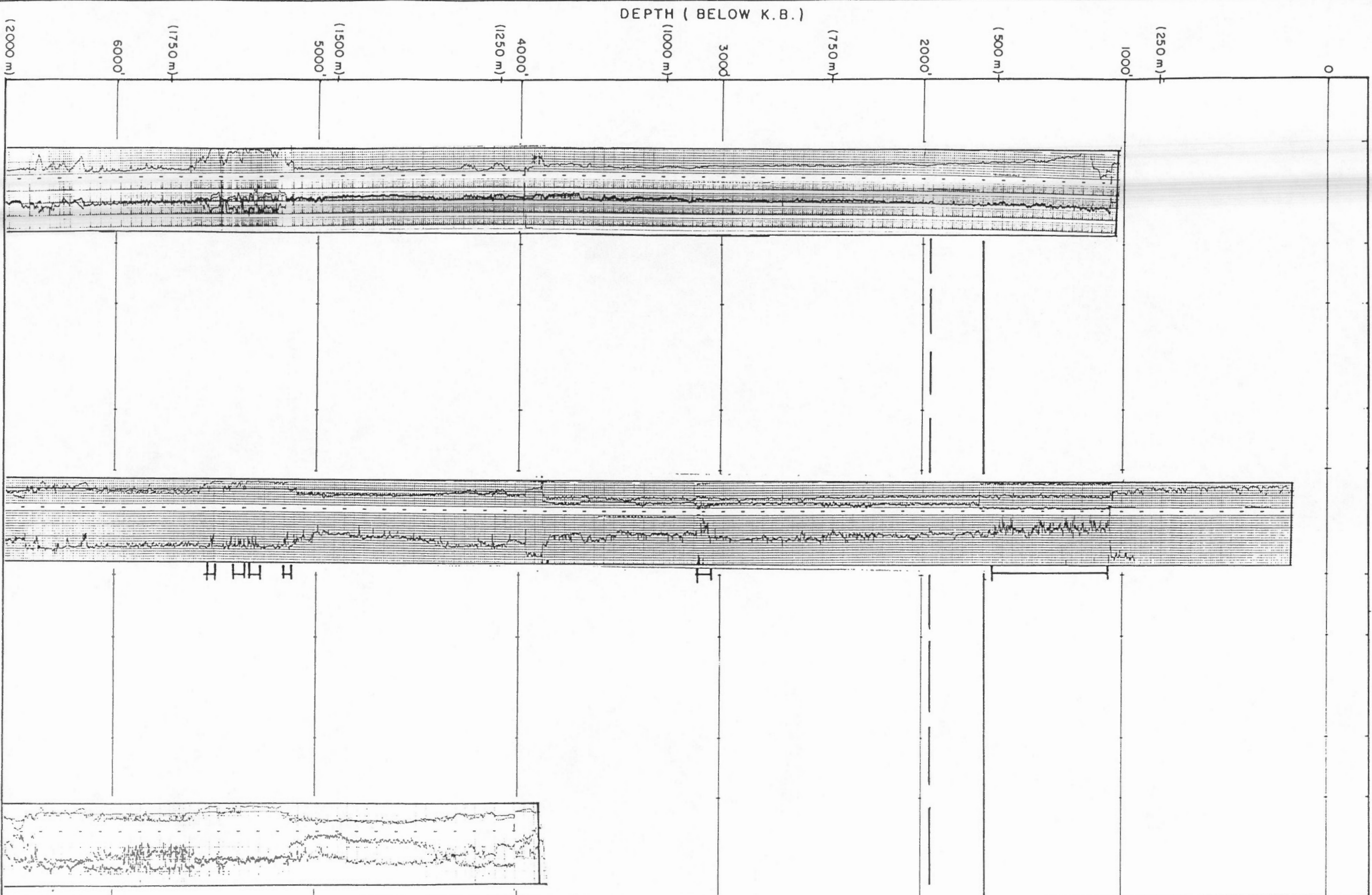
(B)

(C)

(D)

(E)

PERMAFROST
HYDRATES



LOGS (LEFT TO RIGHT)

(A) DILL

(B) BHCS

(C)

(D)



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PERMAFROST/GAS HYDRATE STUDY

ARCTIC ISLANDS

MOCKLIN POINT D-23

CS10095

PLATE 119

A

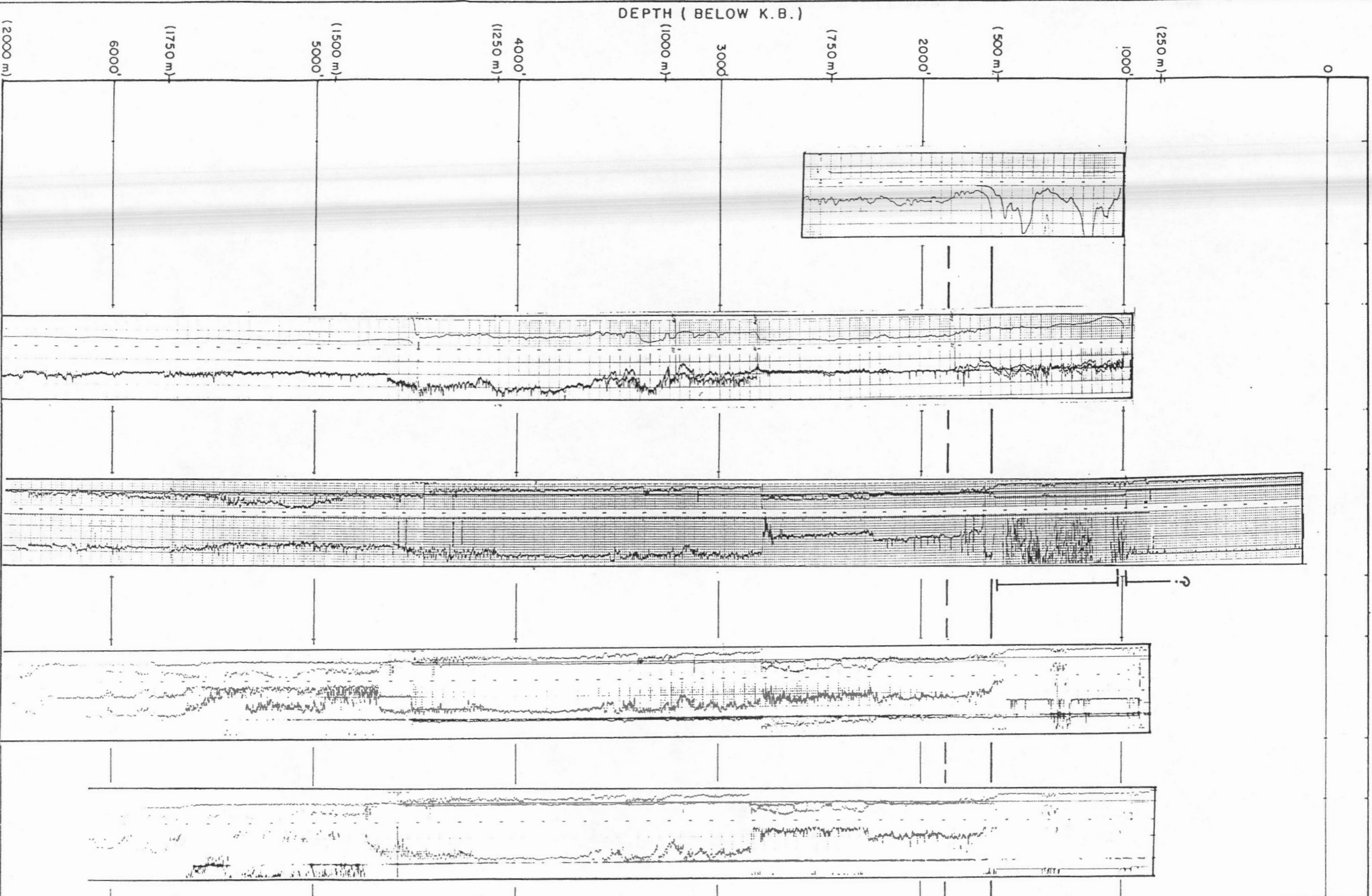
B

C

D

E

PERMAFROST
HYDRATES



Possible Hydrates:
 < 1000'
 ? Hydrate:
 1000' - 1650'

1BPF: 1670'
 Base Trans: 1850'

DEPTH (BELOW K.B.)

(2000 m)

6000'

(1750 m)

5000'

(1500 m)

4000'

(1250 m)

3000'

(1000 m)

2000'

(750 m)

1000'

(500 m)

0

LOGS (LEFT TO RIGHT)

- (A) EL
- (B) DILL
- (C) BHCS
- (D) FDEN
- (E) SNP



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PERMAFROST/GAS HYDRATE STUDY

ARCTIC ISLANDS

POLLUX G-60

CG10095

PLATE 177

(A)

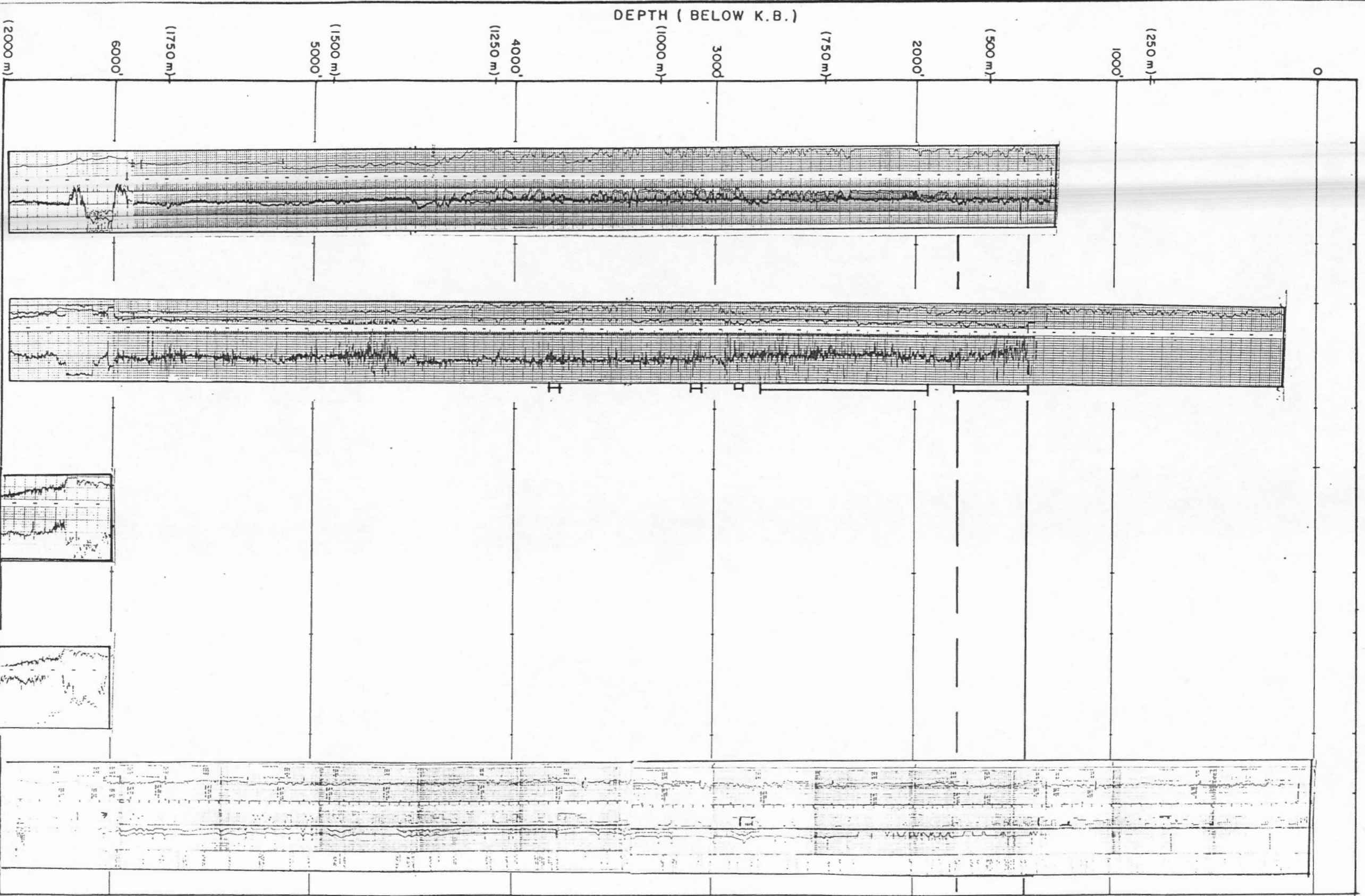
(B)

(C)

(D)

(E)

PERMAFROST
HYDRATES



IBPF: 1430'
 ? Hydrates: 1430' - 1830'
 Base Trans: 1805'

Possible Hydrates:
 1950' - 3790'
 (scattered)

DEPTH (BELOW K.B.)

0
 (250 m)
 1000'
 (500 m)
 2000'
 (750 m)
 3000'
 (1000 m)
 4000'
 (1250 m)
 5000'
 (1500 m)
 6000'
 (1750 m)
 (2000 m)

LOGS (LEFT TO RIGHT)

- (A) DILL
- (B) BHCS
- (C) FDEN
- (D) SNP
- (E) MUD



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PERMAFROST/GAS HYDRATE STUDY
 ARCTIC ISLANDS
 HELICOPTER J-12

CG10095

PLATE 120

(A)

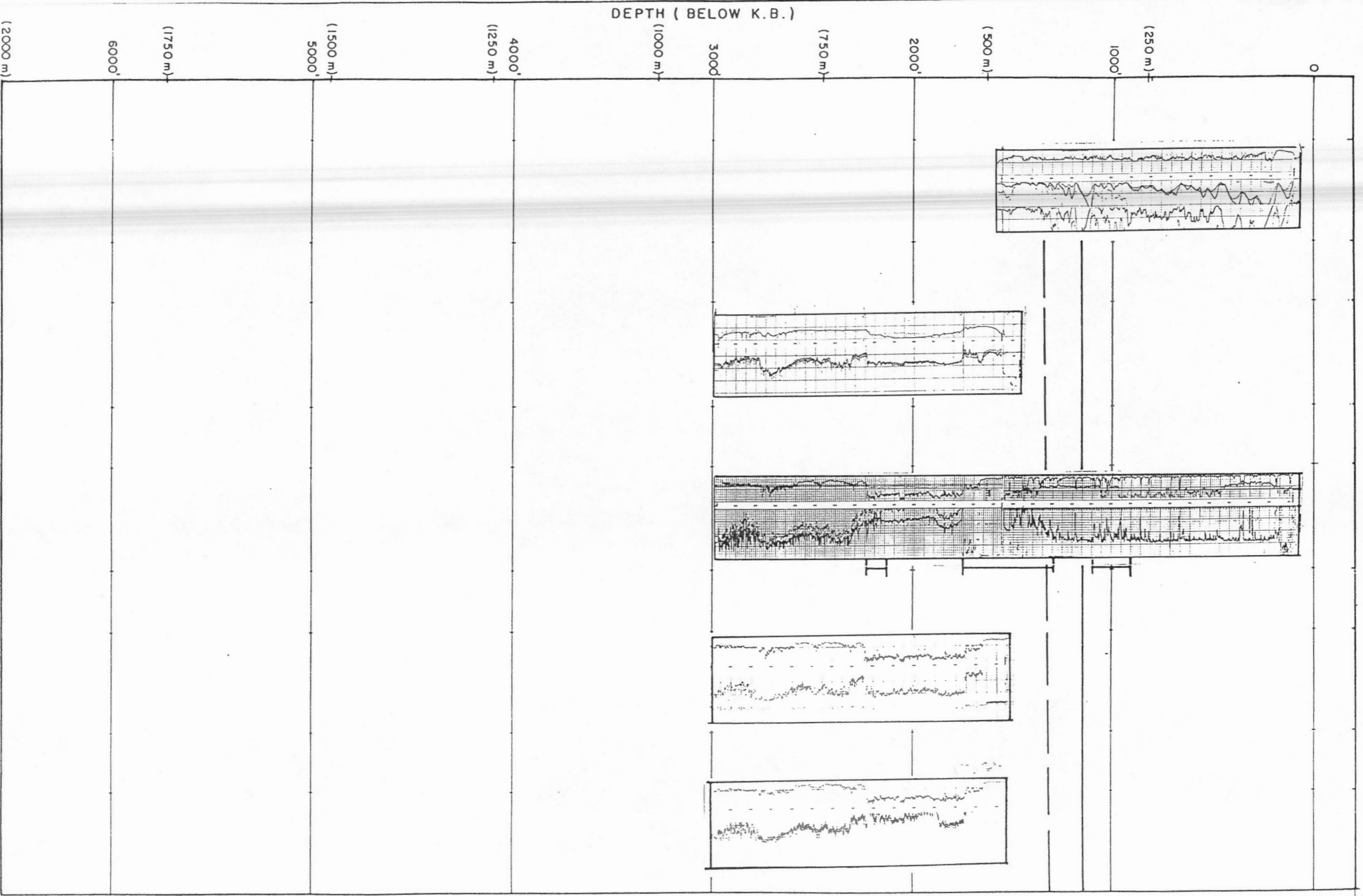
(B)

(C)

(D)

(E)

PERMAFROST /
HYDRATES



? Hydrate:
920' - 1090'

18PF: 1185'

Base Trans: 1340'

Hydrate:
1310' - 1710'

Ice: 1480+ on EL

Possible Hydrates:
2170' - 2230'

DEPTH (BELOW K.B.)

0

(250 m)

1000'

(500 m)

2000'

(750 m)

3000'

(1000 m)

4000'

(1250 m)

(1500 m)

5000'

(1750 m)

6000'

(2000 m)

LOGS (LEFT TO RIGHT)

- (A) EL
- (B) DILL
- (C) BHCS
- (D) FDEN
- (E) SNP



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PERMAFROST/GAS HYDRATE STUDY
ARCTIC ISLANDS
WEST POLLUX E-59

CG10095

PLATE 123

(A)

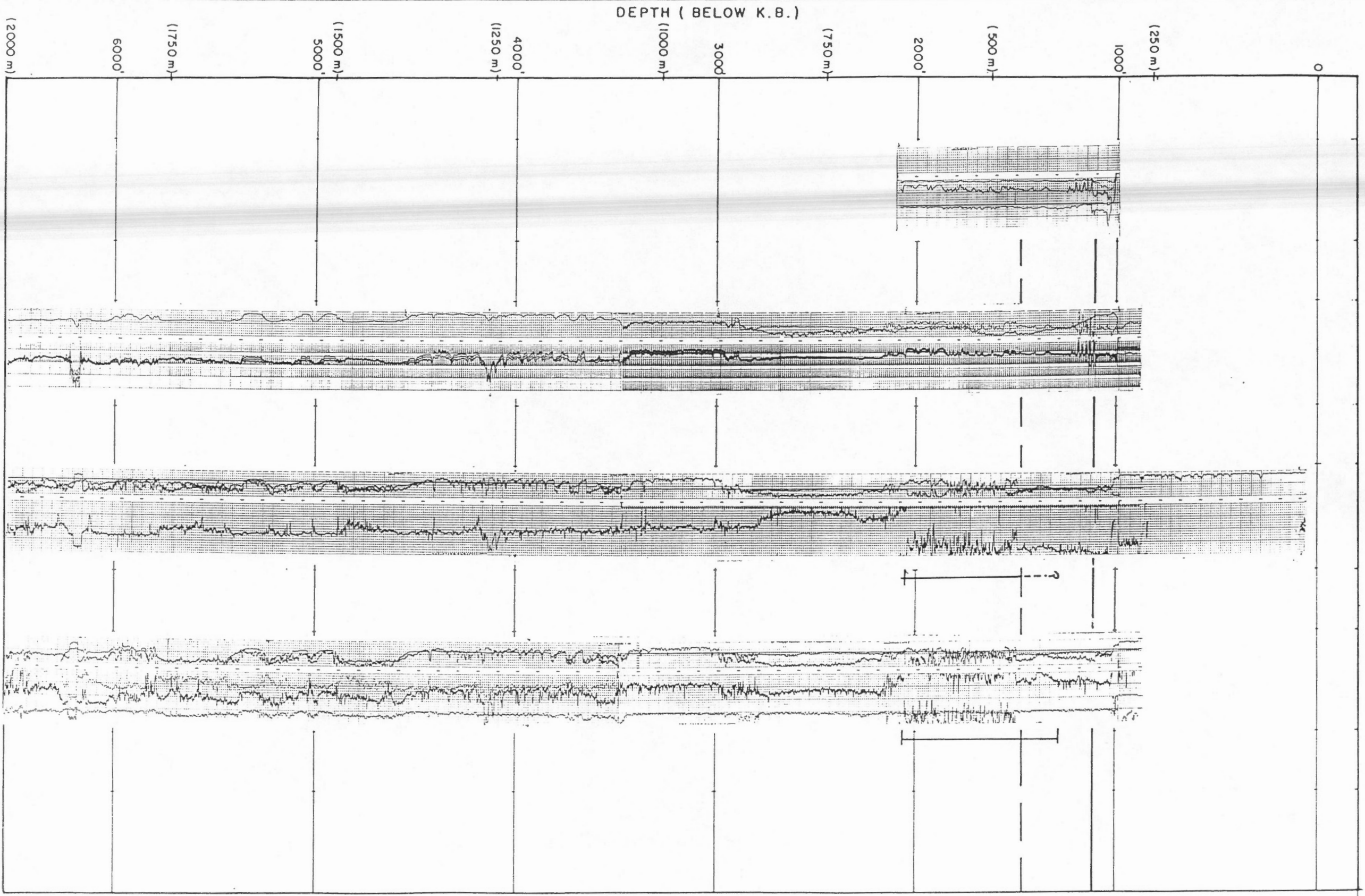
(B)

(C)

(D)

(E)

PERMAFROST
HYDRATES



DEPTH (BELOW K.B.)

(250 m)

1000'

(500 m)

2000'

(750 m)

3000'

(1000 m)

4000'

(1250 m)

(1500 m)

5000'

(1750 m)

6000'

(2000 m)

IBPF: 1110'
 Hydrate: 1310' - 1510'
 Base Trans: 1510'
 Hydrate: 1510' - 2065'

LOGS (LEFT TO RIGHT)

- (A) EL
- (B) DILL
- (C) BHCS
- (D) CN-FD
- (E)



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PERMAFROST/GAS HYDRATE STUDY

ARCTIC ISLANDS
 SIRIUS K-28

CG10095

PLATE 124

A

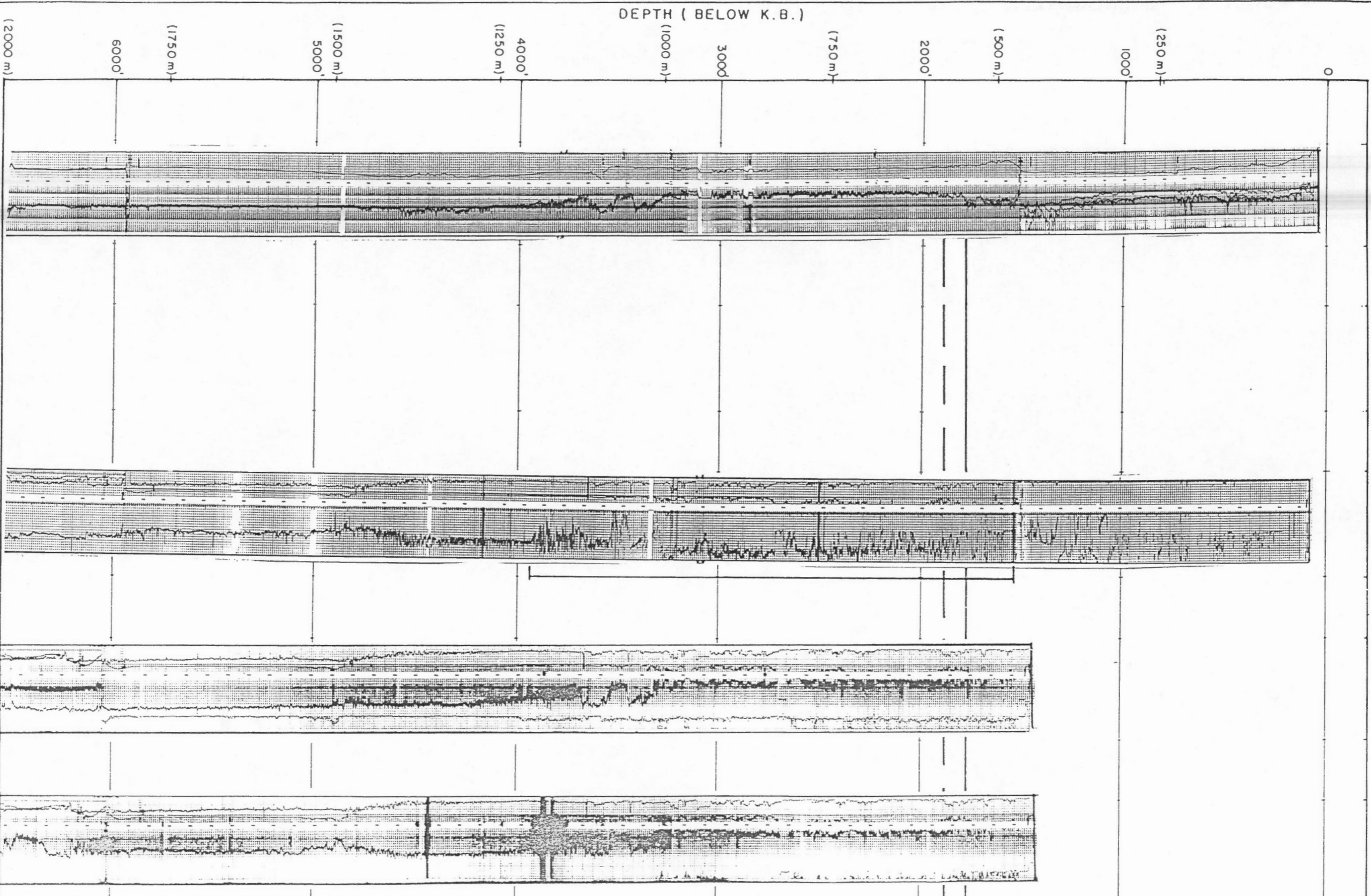
B

C

D

E

PERMAFROST
HYDRATES



1BPF: 1825'
Base Trans: 1940'

Possible Hydrates:
1540' - 3960'

LOGS (LEFT TO RIGHT)

- (A) DILL
- (B) BHCS
- (C) FDEN
- (D) SNP
- (E)



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PERMAFROST/GAS HYDRATE STUDY

ARCTIC ISLANDS

ISACHSEN 1-37

CG10095

PLATE 125

(A)

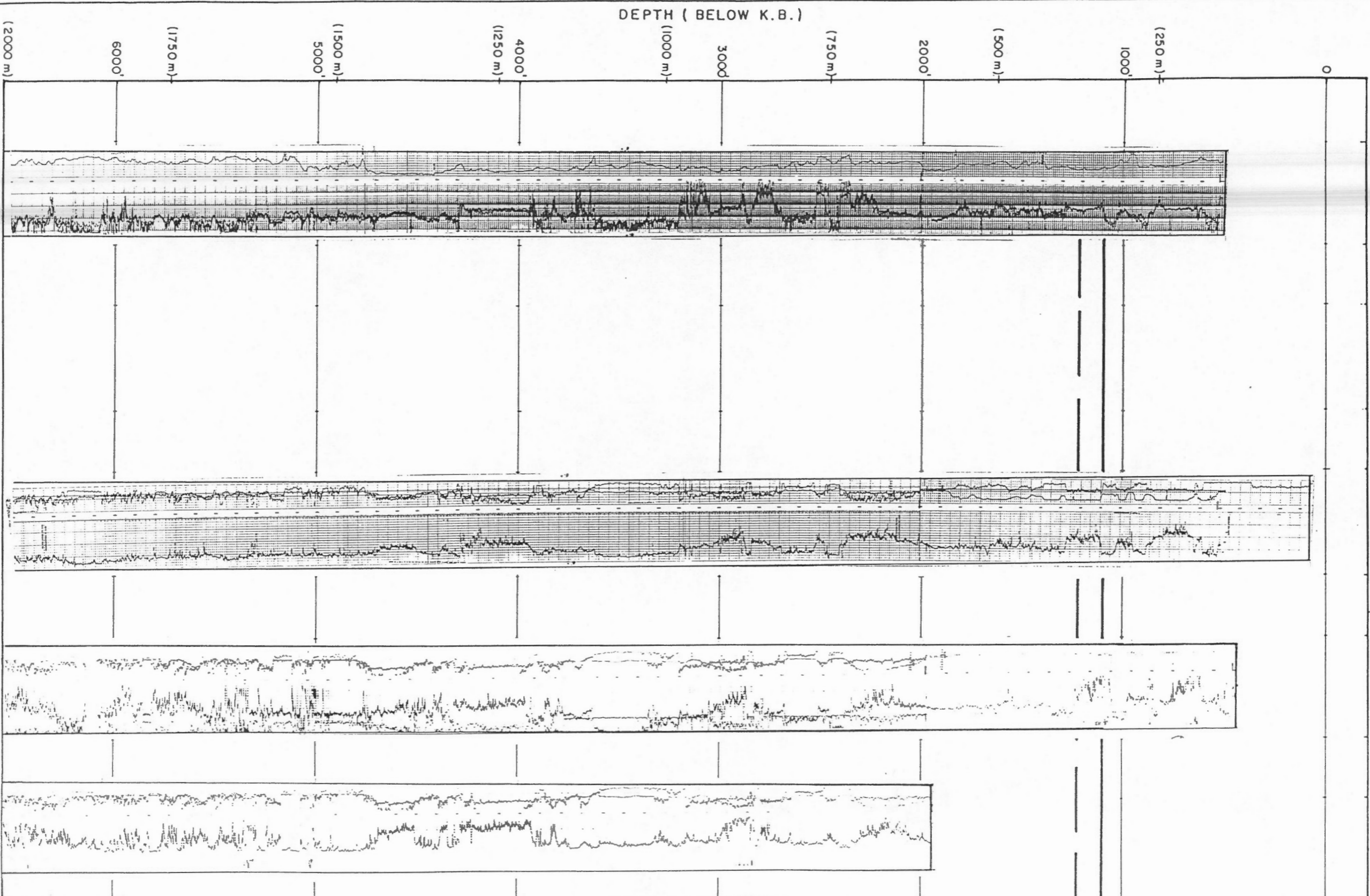
(B)

(C)

(D)

(E)

PERMAFROST /
HYDRATES



1BPF : 1090'
Base Trans : 1230'
No Hydrates Logged

LOGS (LEFT TO RIGHT)

- (A) DILL
- (B) BHCS
- (C) FDEN
- (D) SNP
- (E)



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PERMAFROST / GAS HYDRATE STUDY

ARCTIC ISLANDS

MID FIORD J-53

CG10095

PLATE 126

(A)

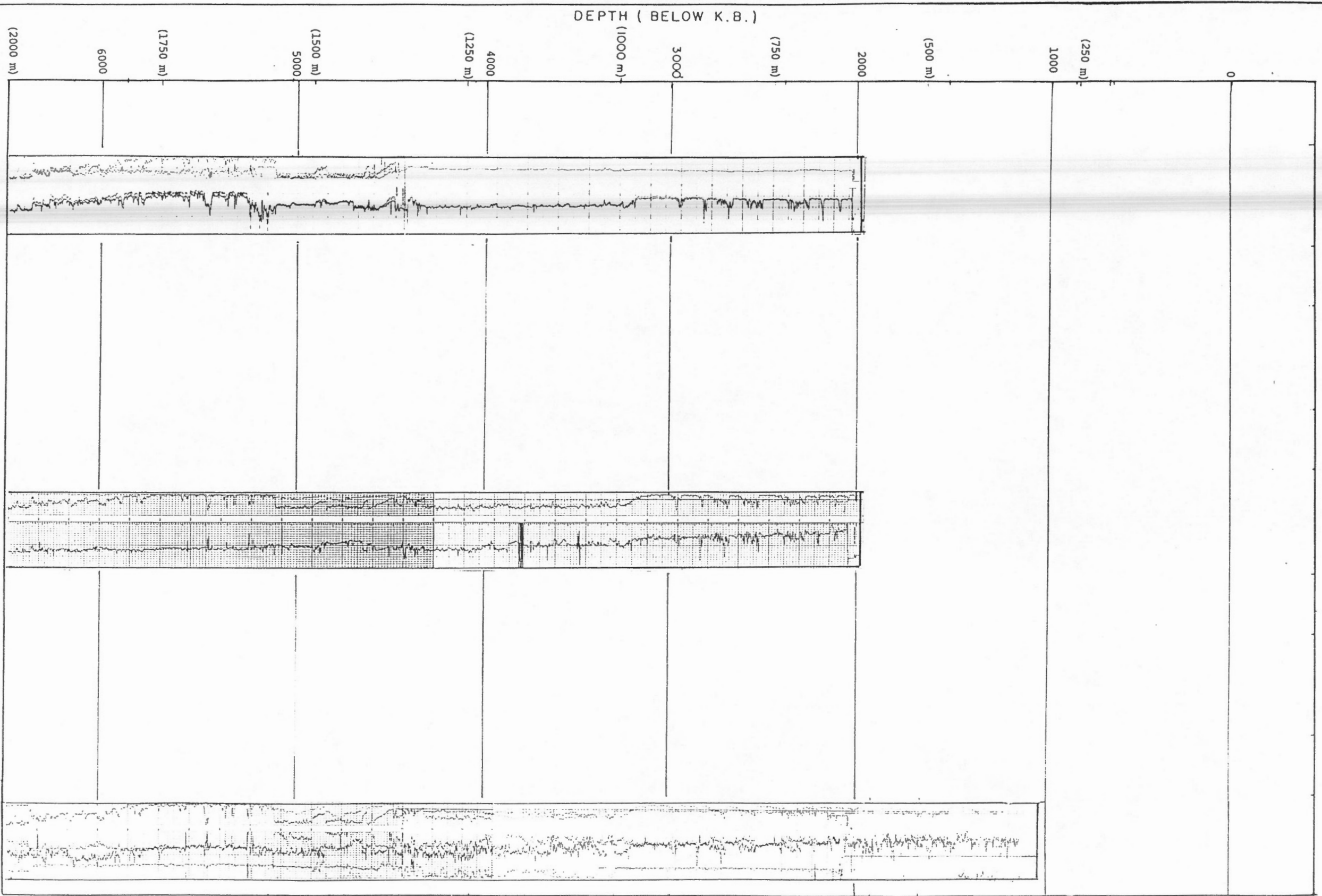
(B)

(C)

(D)

(E)

PERMAFROST
HYDRATES



No 1BPF logged
(log top at 620m)

No hydrates
logged

DEPTH (BELOW K.B.)

0
1000
2000
3000
4000
5000
6000
1750 m
2000 m

LOGS (LEFT TO RIGHT)

- (A) DISFL
- (B) BHCS
- (C) CNFD
- (D)
- (E)



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PERMAFROST/GAS HYDRATE STUDY

ARCTIC ISLANDS

CHAR G-07

CG10095

DATE 1977

(A)

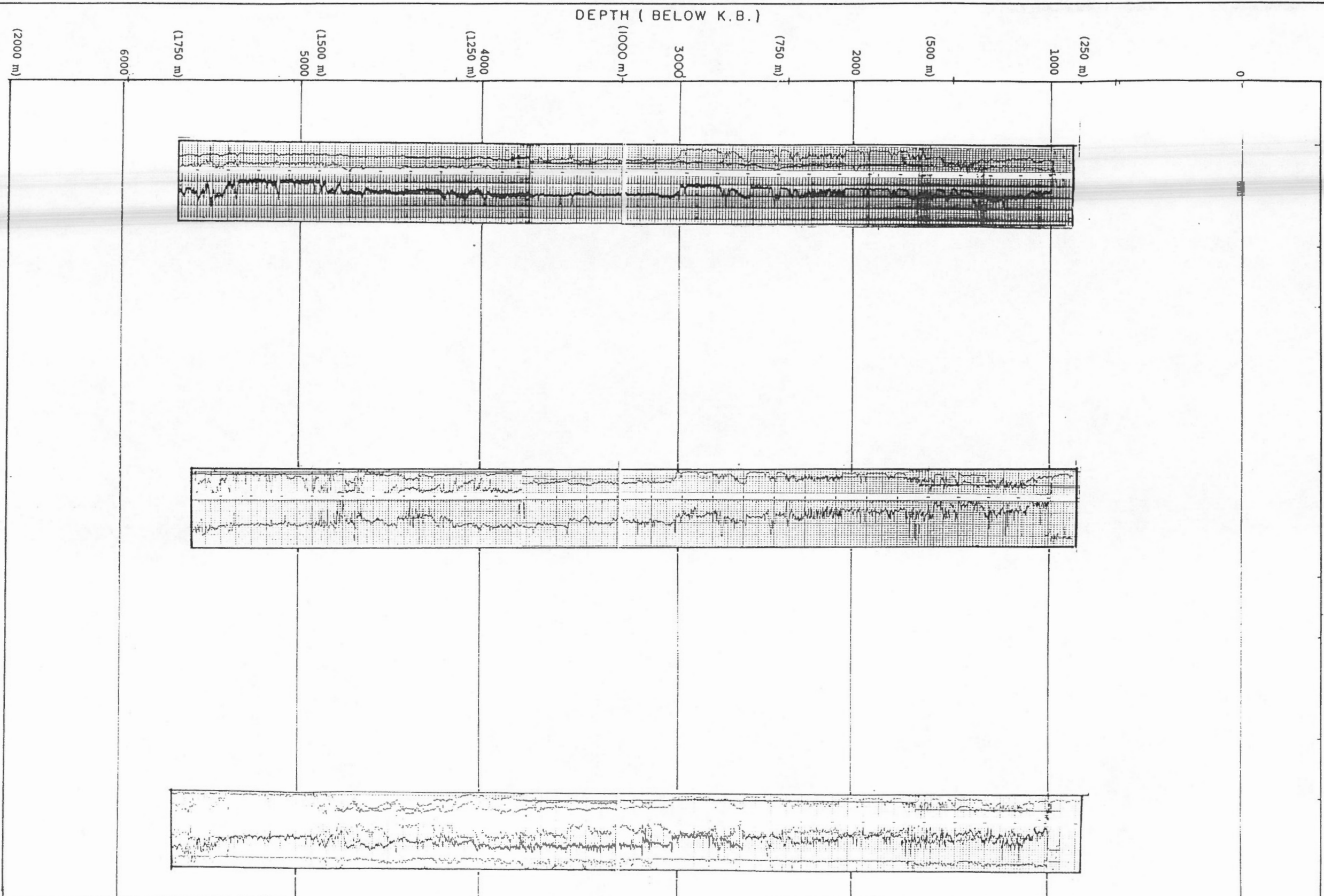
(B)

(C)

(D)

(E)

PERMAFROST
HYDRATES



No IBPF below
log tops (297 m)

No hydrates logged

(2000 m)

6000

(1750 m)

(1500 m)
5000

(1250 m)
4000

(1000 m)
3000

(750 m)
2000

(500 m)
1000

(250 m)
0

0

LOGS (LEFT TO RIGHT)

- (A) DISFL
- (B) BHCS
- (C) BHCS
- (D) CNFD
- (E) CNFD



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PERMAFROST/GAS HYDRATE STUDY

ARCTIC ISLANDS
BALAENA D-58

CG10095

PLATE 128

(A)

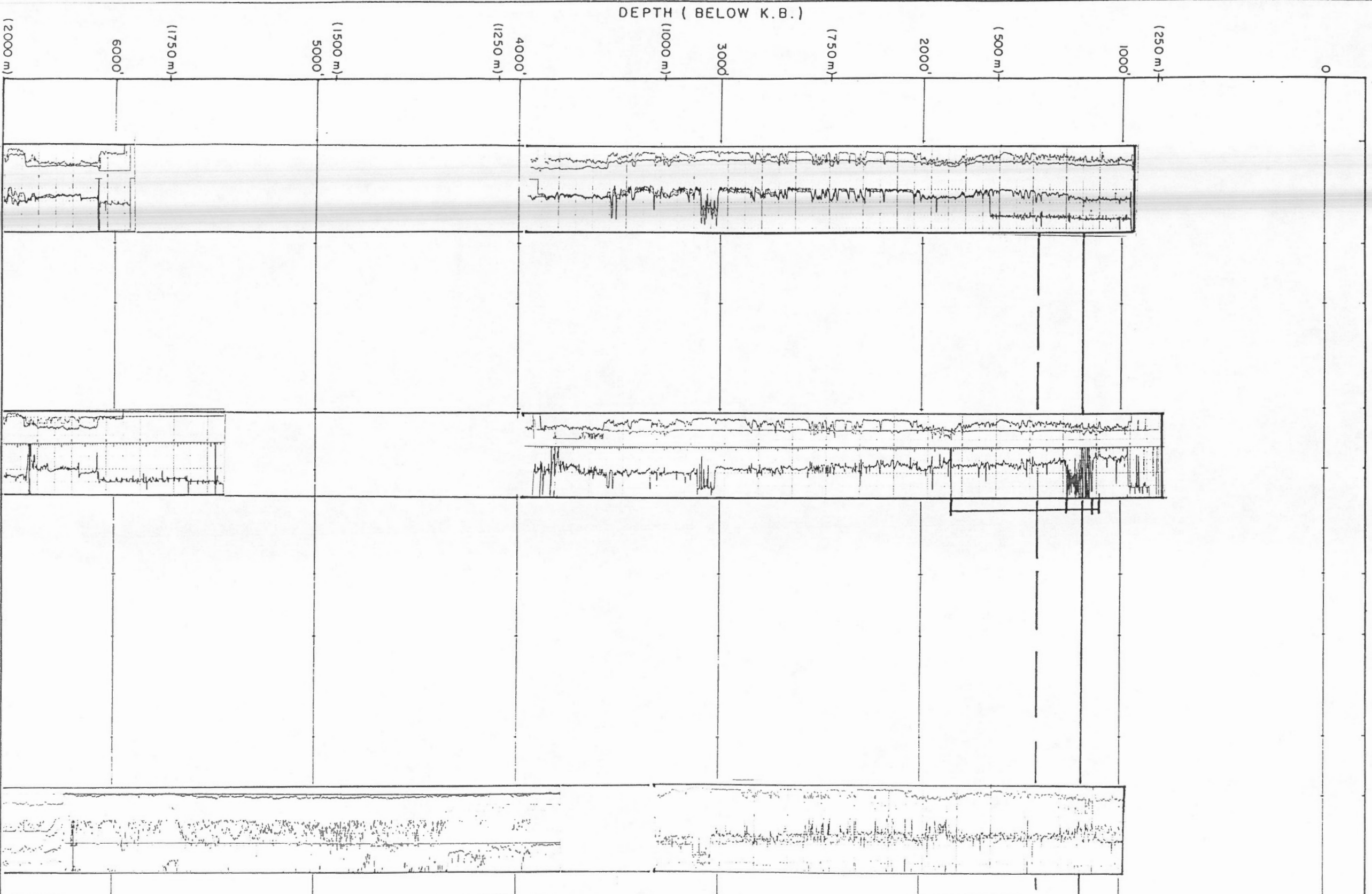
(B)

(C)

(D)

(E)

PERMAFROST /
HYDRATES



1BPF: 375 m
 Base Trans: 440 m
 Hydrates and Poss.
 Hydrates:
 344m - 560m

LOGS (LEFT TO RIGHT)

- (A) DISFL
- (B) BHCS
- (C) CNFD
- (D)
- (E)



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PERMAFROST/GAS HYDRATE STUDY

ARCTIC ISLANDS
 WALLIS A-73

CG10095

PLATE 129

(A)

(B)

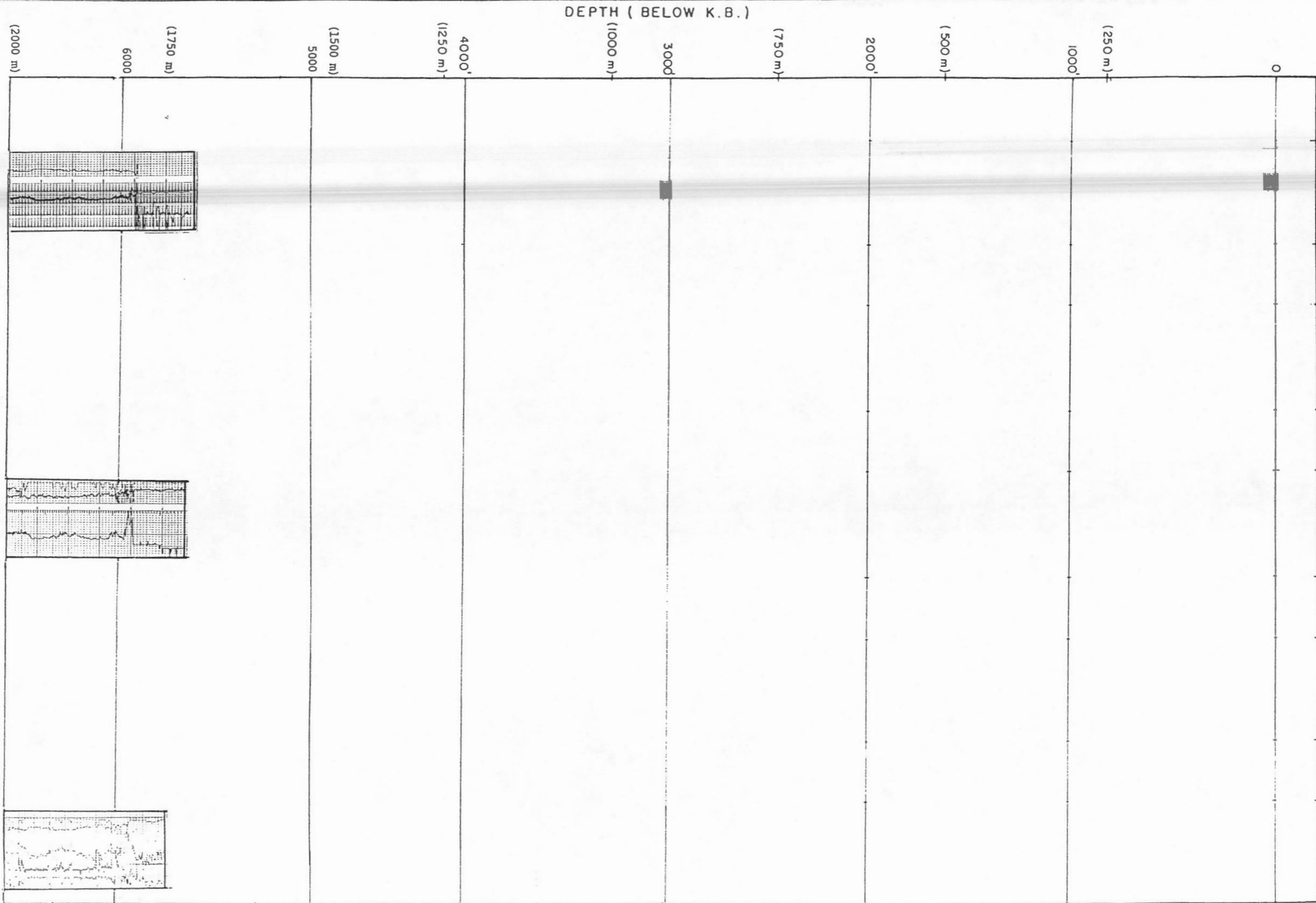
(C)

(D)

(E)

PERMAFROST
HYDRATES

No IBPF or
hydrates logged



LOGS (LEFT TO RIGHT)

- (A) DISFL
- (B) BHCS
- (C) BHCS
- (D) CNFD
- (E) CNFD



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PERMAFROST/GAS HYDRATE STUDY

ARCTIC ISLANDS
CISCO B-66

CG:ms

TE 1

A

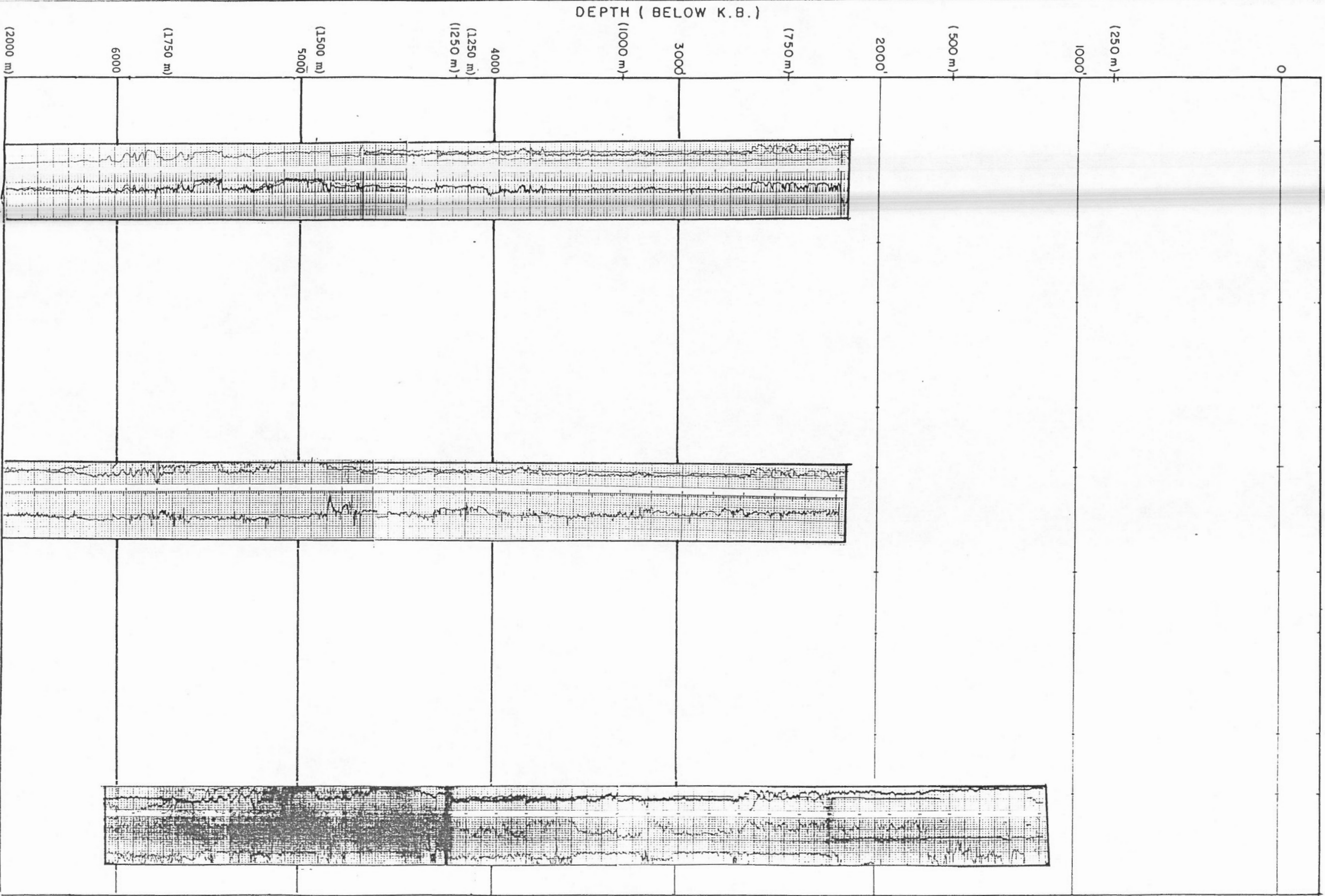
B

C

D

E

PERMAFROST /
HYDRATES



No IBPF logged
(log top: 645 m)

No hydrates logged

DEPTH (BELOW K.B.)

0
 (250 m)
 1000'
 (500 m)
 2000'
 (750 m)
 3000'
 (1000 m)
 4000'
 (1250 m)
 (1250 m)
 (1250 m)
 5000'
 (1500 m)
 (1750 m)
 6000'
 (2000 m)

LOGS (LEFT TO RIGHT)

- (A) DISFL
- (B) BHCS
- (C) CNFD
- (D)
- (E)



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PERMAFROST/GAS HYDRATE STUDY
 ARCTIC ISLANDS
 MACLEAN 1-72

CG10095

DATE 1991

A

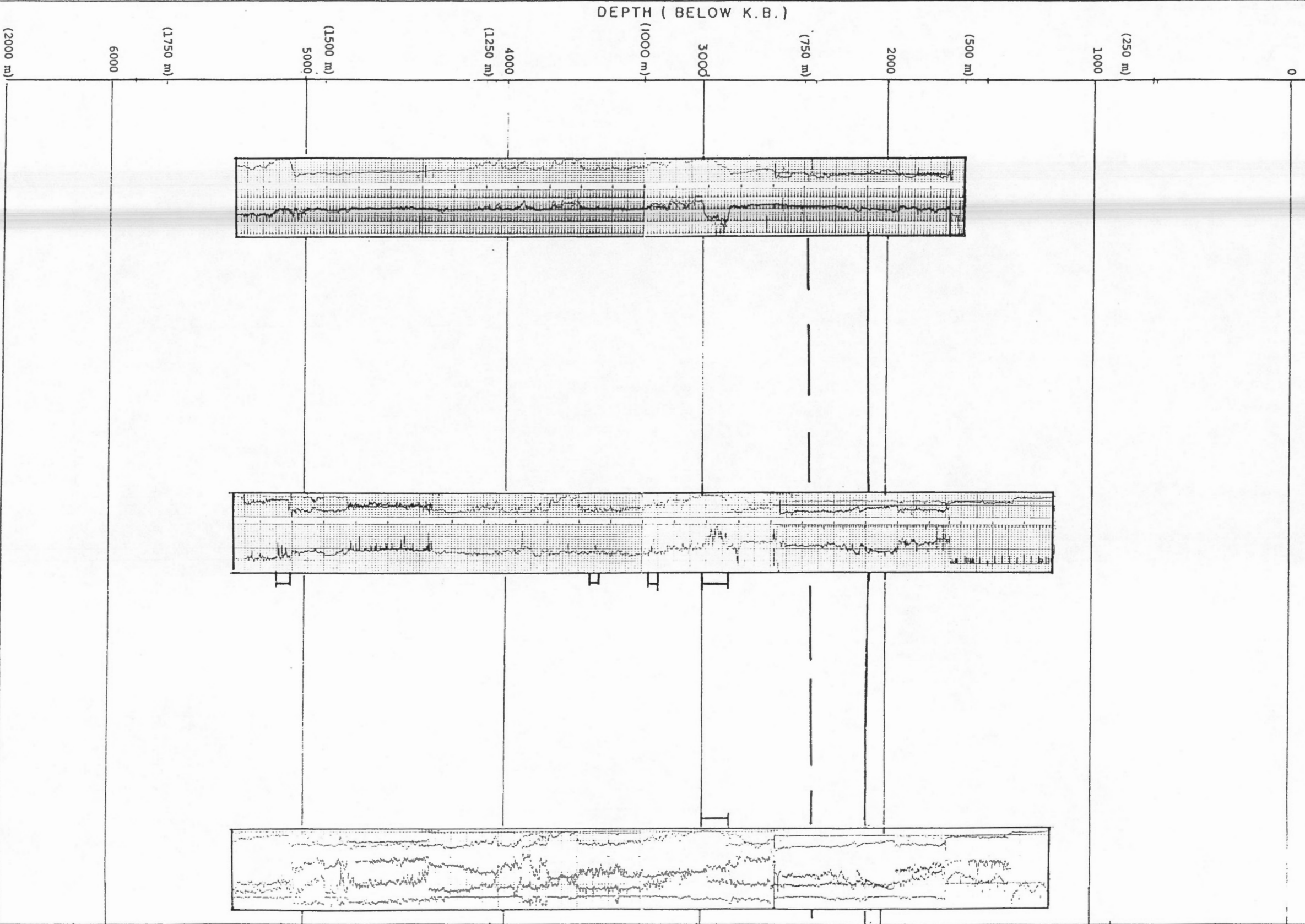
B

C

D

E

PERMAFROST
HYDRATES



IBPF: 680 m

Base Trans: 777 m

Hydrate: 867-907 m

Hydrates: 980-990m

Poss. Hydrates:
1070 - 1075 m

Poss. Hydrates:
1557 - 2573 m

LOGS (LEFT TO RIGHT)

A DISFL

B BHCS

C

D

E CNFD



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PERMAFROST/GAS HYDRATE STUDY

ARCTIC ISLANDS

SKATE B-80

CG10095

PLATE 132

(A)

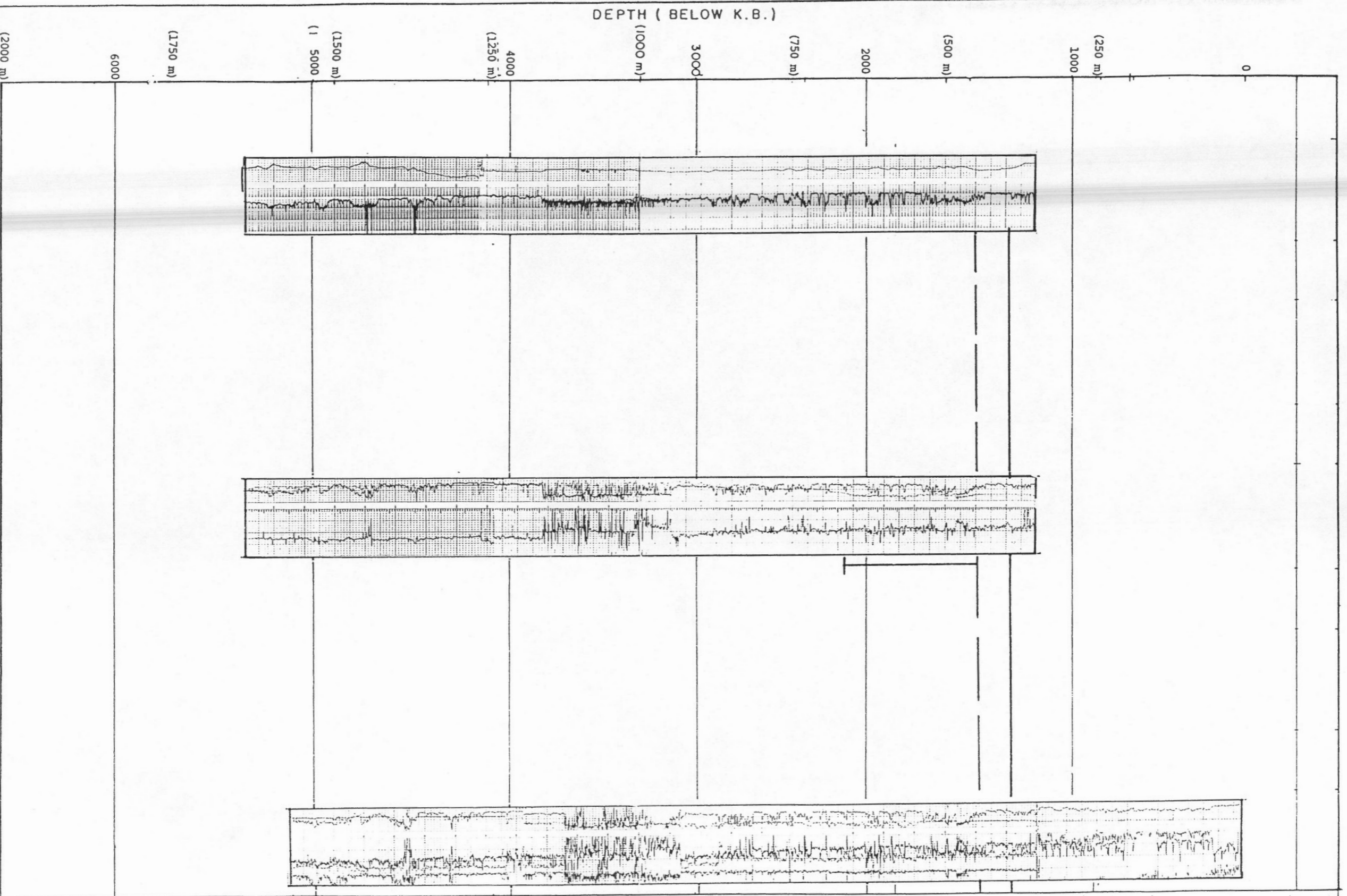
(B)

(C)

(D)

(E)

PERMAFROST /
HYDRATES



IBPF: 390 m
Base Trans: 450 m

Poss. Hydrates
450 - 690 m

DEPTH (BELOW K.B.)

0
1000 (250 m)
2000 (500 m)
3000 (750 m)
4000 (1000 m)
5000 (1250 m)
6000 (1500 m)
7000 (1750 m)
8000 (2000 m)

LOGS (LEFT TO RIGHT)

- (A) DISFL
- (B) BHCS
- (C) CNFD
- (D)
- (E)



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ARCTIC ISLANDS
HOODOO N-52

CC 10095

TE

(A)

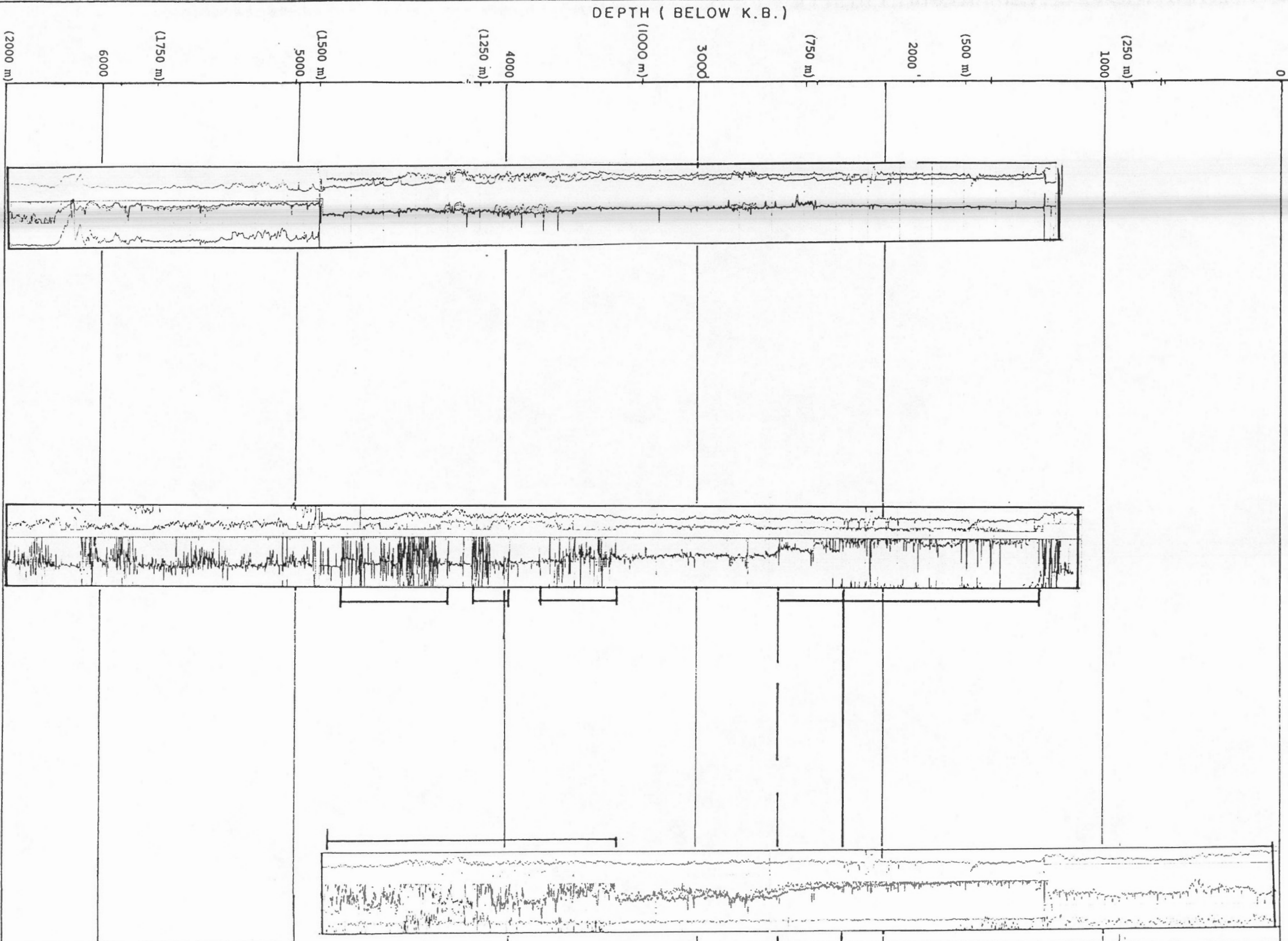
(B)

(C)

(D)

(E)

PERMAFROST
HYDRATES



Poss. Hydrates
375 - 785 m

IBPF: 690 m

Base Trans: 785 m

Poss. Hydrates
1035 - 1148 m
1200 - 1257 m
1305 - 1470 m

LOGS (LEFT TO RIGHT)

(A) DISFL

(B) BHCS

(C) BHCS

(D) BHCS



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PERMAFROST/GAS HYDRATE STUDY

ARCTIC ISLANDS

VESEY A-27

Cv10U95

PLATE 134

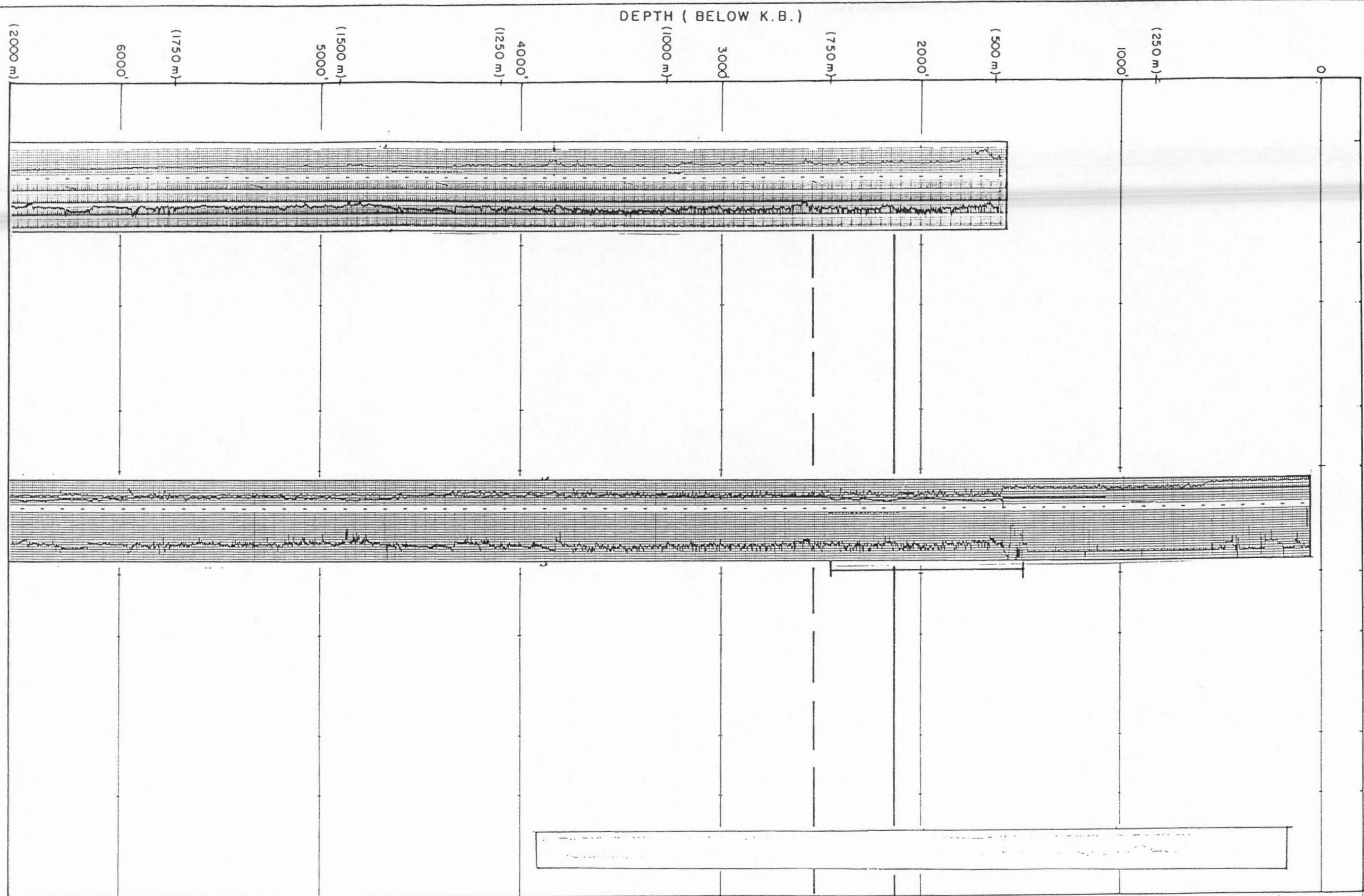
(A)

(B)

(C)

(D)

(E)



Possible Hydrates:
1470' - 2470'

IBPF: 2140'

Base Trans: 2570'

DEPTH (BELOW K.B.)

(2000 m)

6000'

(1750 m)

5000'

(1500 m)

4000'

(1250 m)

3000'

(1000 m)

2000'

(750 m)

1000'

(250 m)

0

LOGS (LEFT TO RIGHT)

(A) DILL

(B) BHCS

(C) CNFD

(D)



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PERMAFROST/GAS HYDRATE STUDY

ARCTIC ISLANDS

DYER BAY L-49

CG10095

PLATE 135

(A)

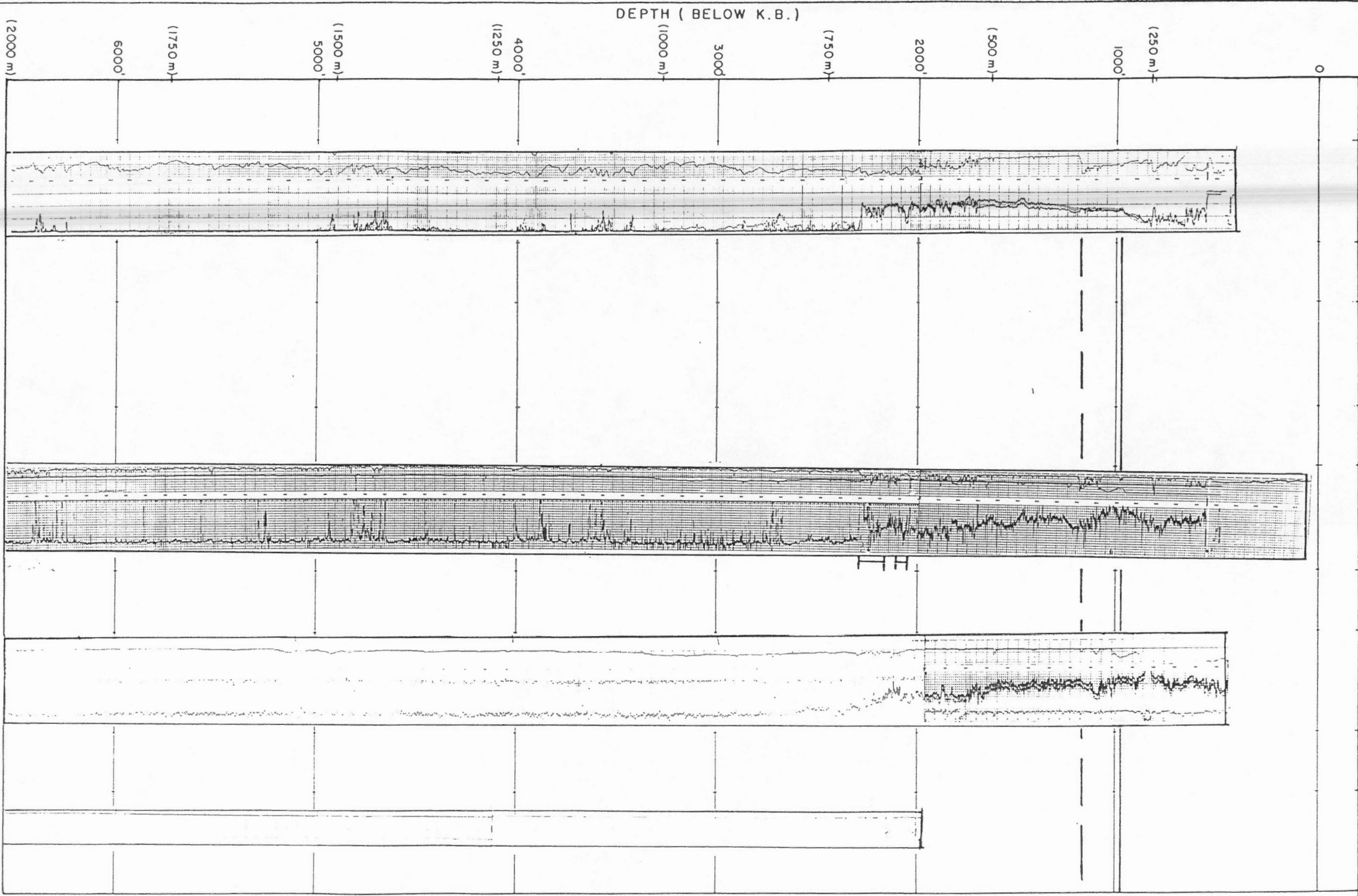
(B)

(C)

(D)

(E)

PERMAFROST /
HYDRATES



Possible Hydrates:
2050' - 2305'

IBPF: 970'
Base Trans: 1180'

DEPTH (BELOW K.B.)

(2000 m)

6000'

(1750 m)

5000'

(1500 m)

4000'

(1250 m)

3000'

(1000 m)

2000'

(750 m)

(500 m)

1000'

(250 m)

0

LOGS (LEFT TO RIGHT)

- (A) DILL
- (B) BHCS
- (C) FDEN
- (D) SNP
- (E)



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PERMAFROST/GAS HYDRATE STUDY

ARCTIC ISLANDS
KITSON RIVER C-71

CG10095

PLATE 136

A

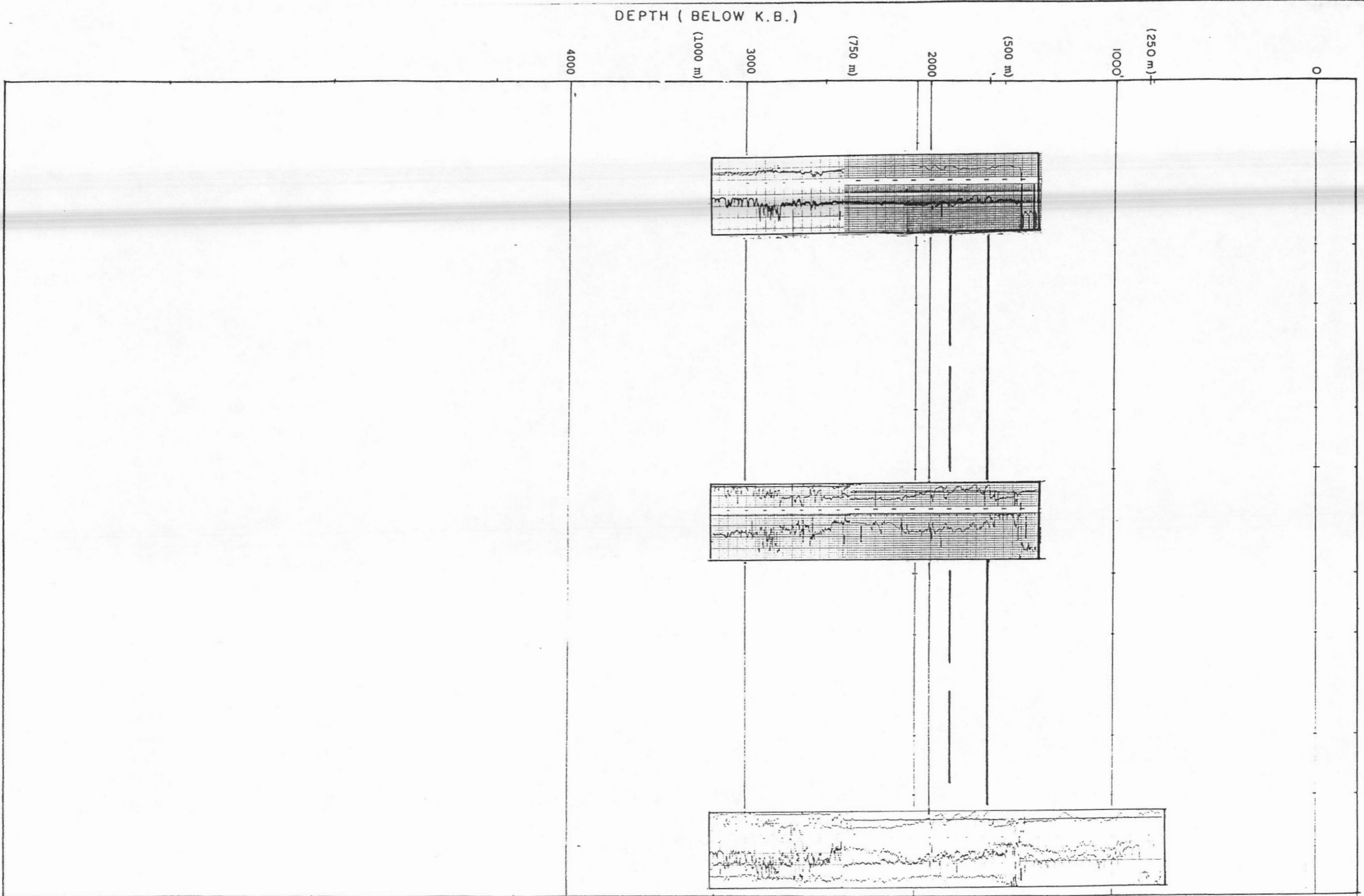
B

C

D

E

PERMAFROST /
HYDRATES



DEPTH (BELOW K.B.)

(250 m)

1000'

(500 m)

2000

(750 m)

3000

(1000 m)

4000

IBPF : 1680'

Base Trans : 1910'

No hydrates logged

LOGS (LEFT TO RIGHT)

- A) DISFL
- B) BHCS
- C) CNFD
- D)
- E)



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PERMAFROST/GAS HYDRATE STUDY
ARCTIC ISLANDS
GRASSY 1-34

CG10095

PLATE 137

(A)

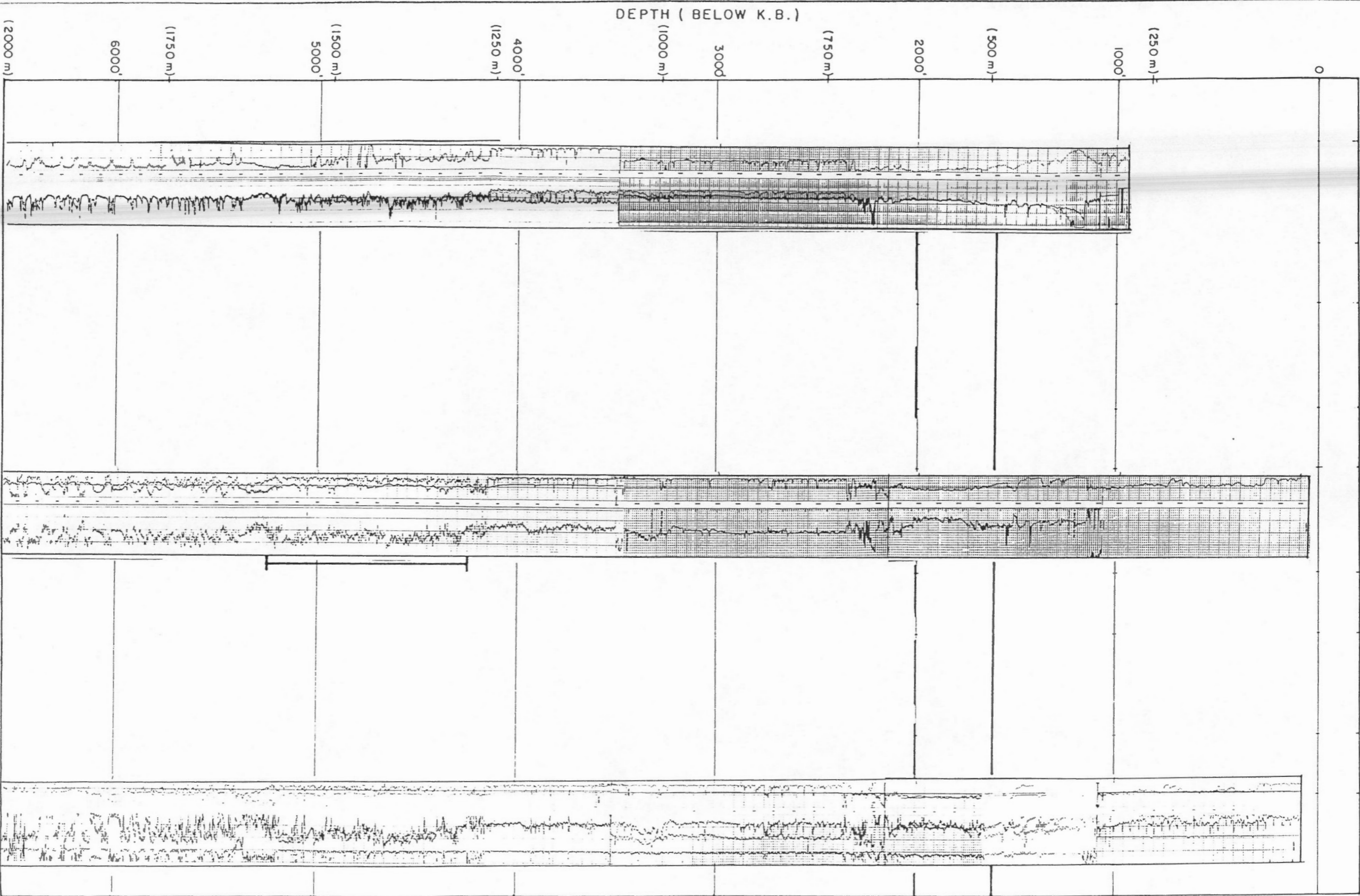
(B)

(C)

(D)

(E)

PERMAFROST
HYDRATES



18PF: 1660'
 Base Trans: 2010'

Possible Hydrates:
 4240' - 5265'

LOGS (LEFT TO RIGHT)

- (A) DILL
- (B) BHCS
- (C) CN-FD
- (D)
- (E)



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PERMAFROST/GAS HYDRATE STUDY
 ARCTIC ISLANDS
 DEPOT ISLAND C-44

CG10095

PLATE 138

(A)

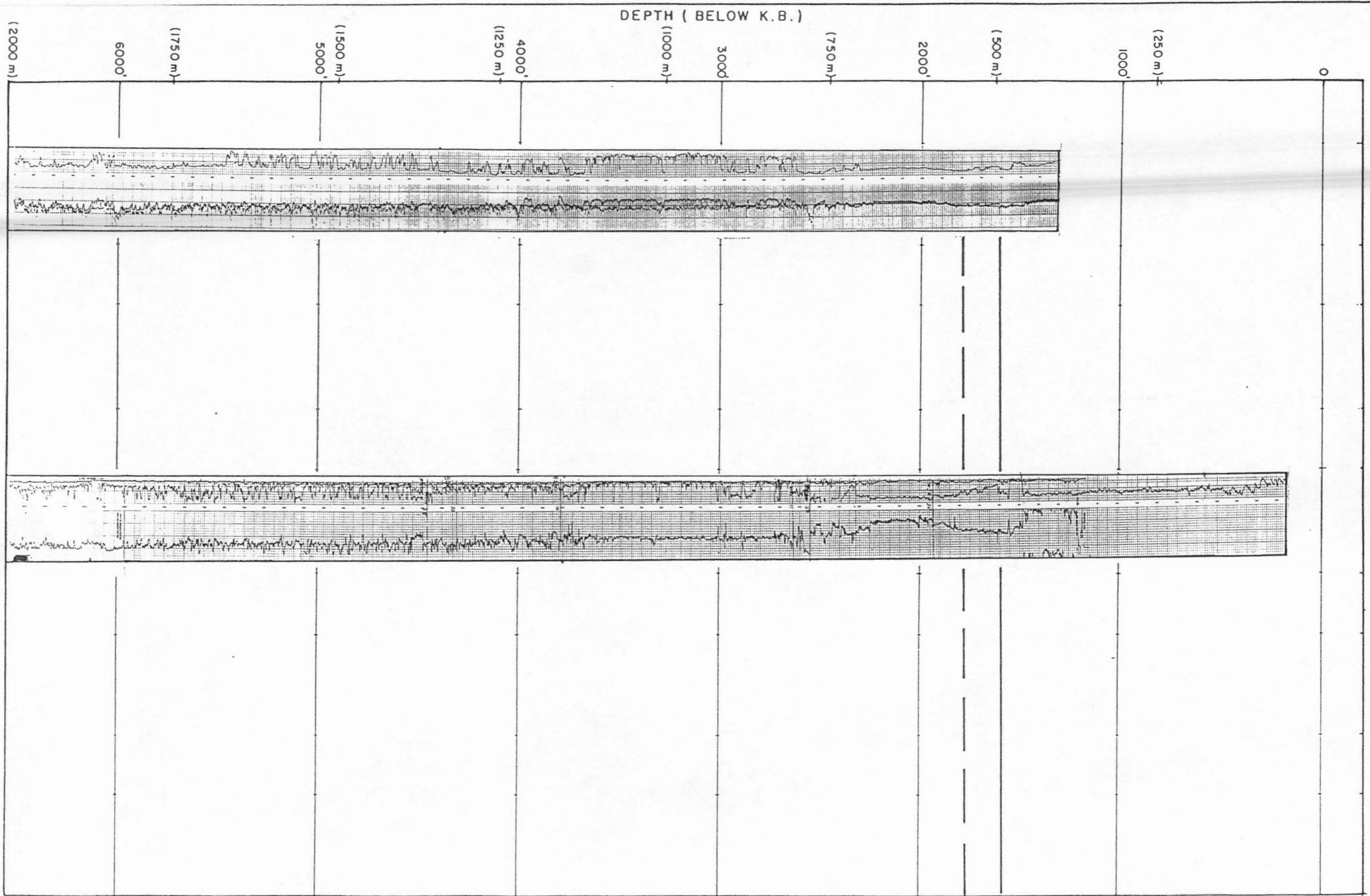
(B)

(C)

(D)

(E)

PERMAFROST /
HYDRATES



LOGS (LEFT TO RIGHT)

(A) DILL

(B) BHCS

(C)

(D)

(E)



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PERMAFROST/GAS HYDRATE STUDY

ARCTIC ISLANDS

SANDY POINT L-46

CG10095

PLATE 139

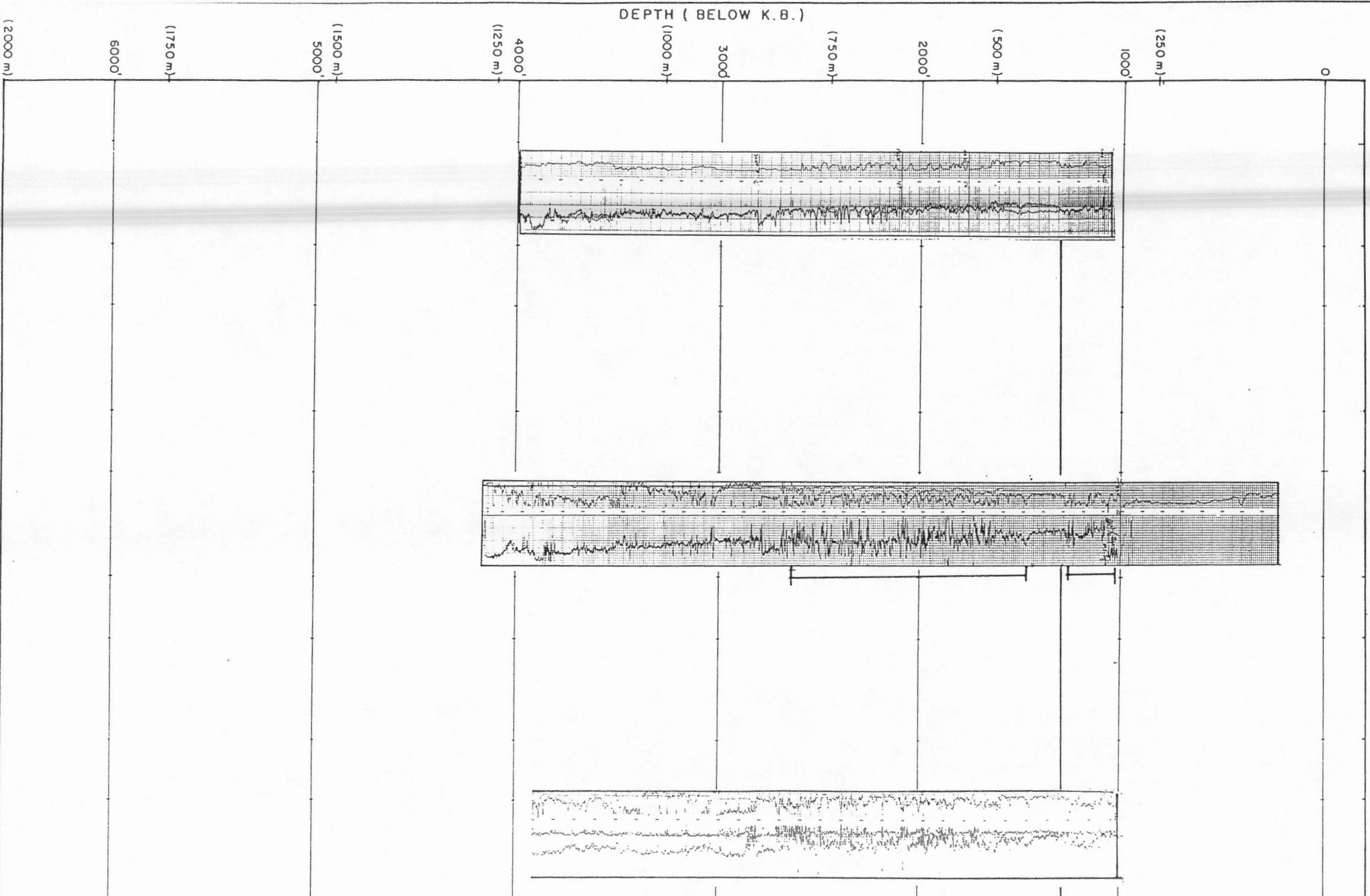
A

B

C

D

E



Possible Hydrates:
1075' - 1280'

1BPF: 1290'

Possible Hydrates:
1500' - 2660'

LOGS (LEFT TO RIGHT)

- (A) DILL
- (B) BHCS
- (C) BHCS
- (D) FDEN
- (E) FDEN



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PERMAFROST/GAS HYDRATE STUDY
ARCTIC ISLANDS
MARINE BAY D-02

CG111105

11-1

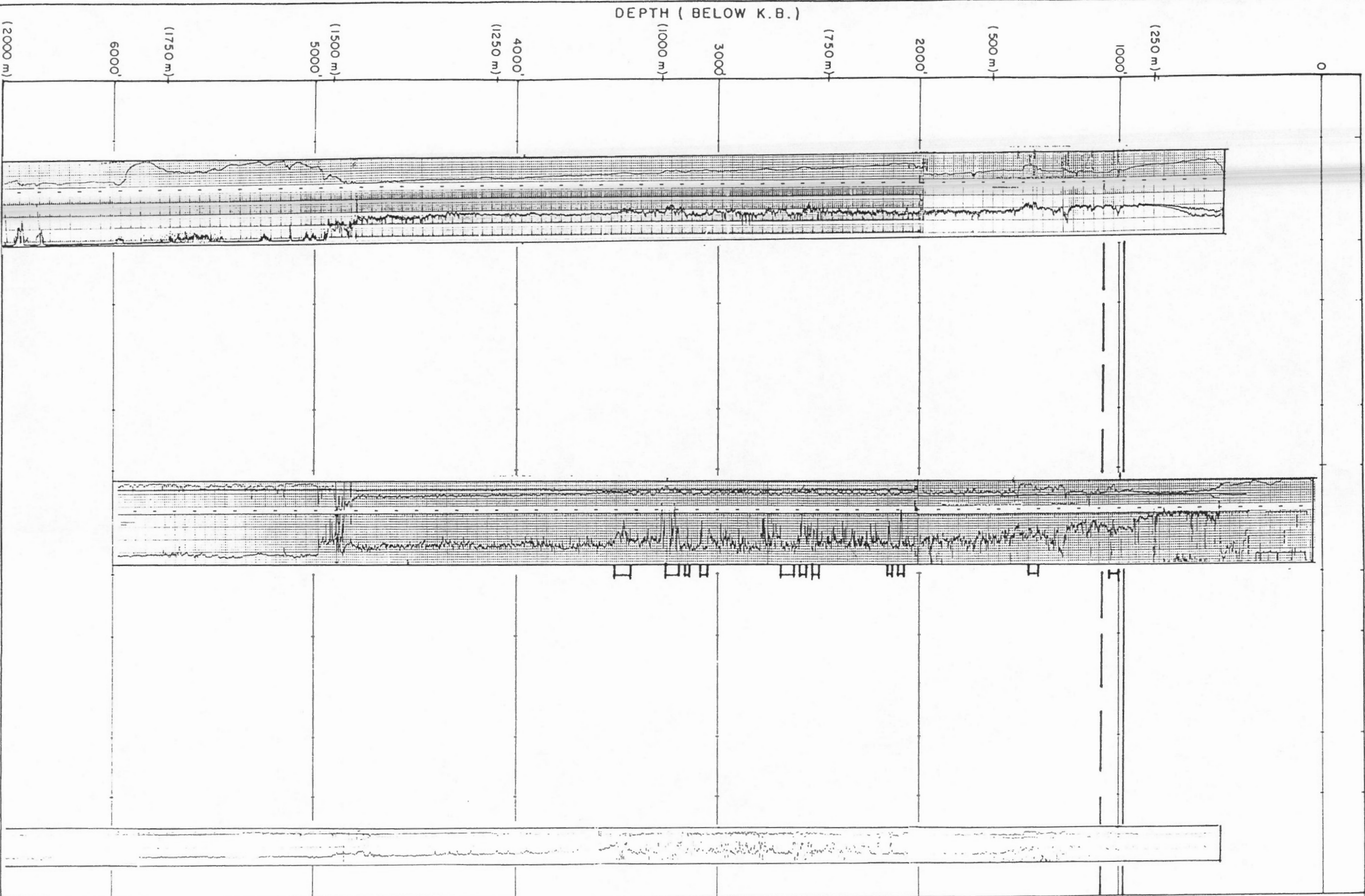
(A)

(B)

(C)

(D)

(E)



--IBPF: 1000'

? Hydrate: 1020' - 1040'

Base Trans: 1130'

? Hydrate: 1430' - 1450'

Possible Hydrate: 2080' - 2790'

Possible Hydrate: 3075' - 3505'

DEPTH (BELOW K.B.)

(2000 m)

6000'

(1750 m)

5000'

(1500 m)

4000'

(1250 m)

3000'

(1000 m)

(750 m)

2000'

(500 m)

1000'

(250 m)

0

LOGS (LEFT TO RIGHT)

- (A) DILL
- (B) BHCS
- (C) BHCS
- (D) CNFD
- (E) CNFD



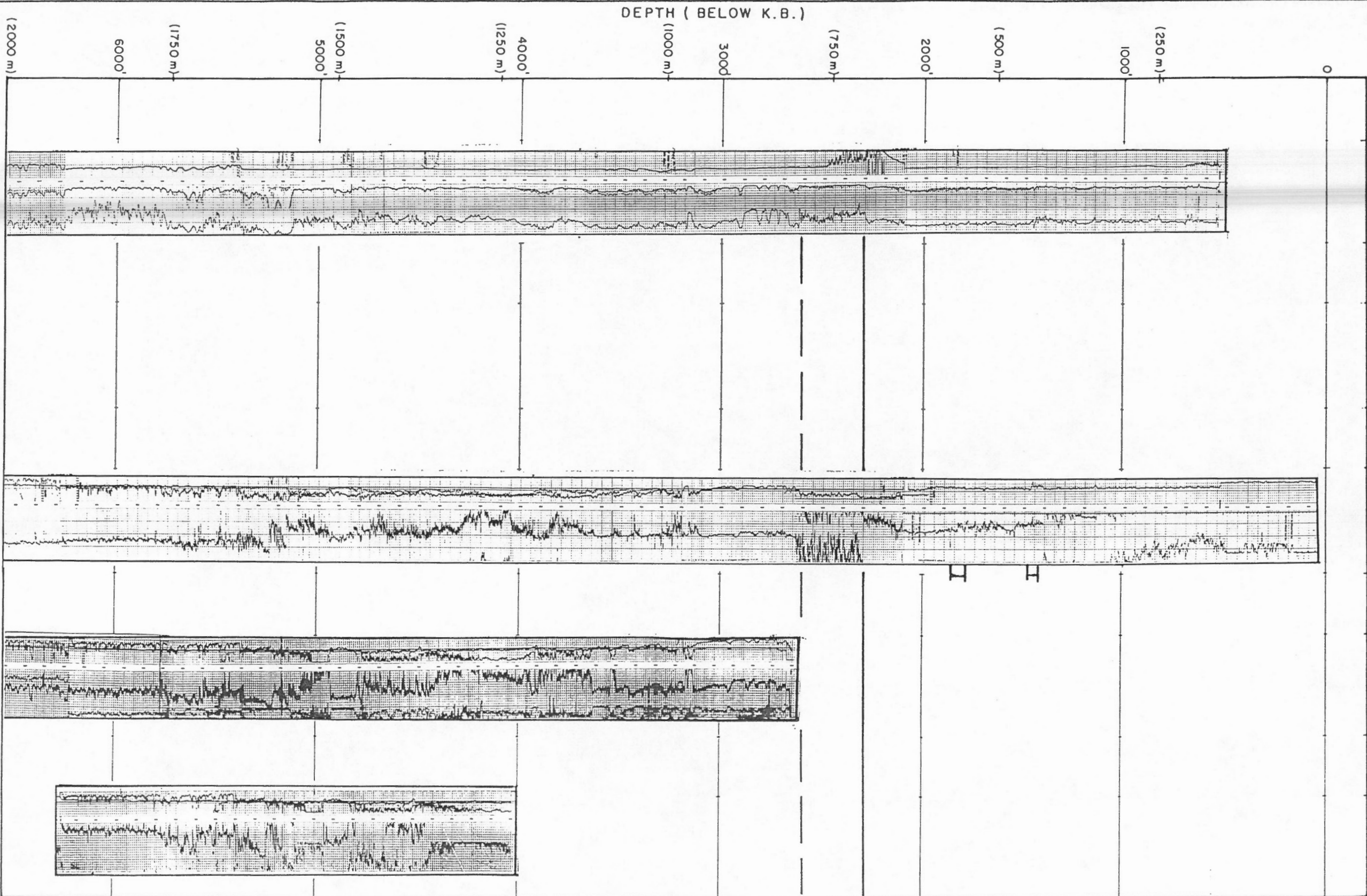
HARDY ASSOCIATES (1978) LTD.
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PERMAFROST/GAS HYDRATE STUDY
ARCTIC ISLANDS
WILKIE POINT J-51

CG10095

PLATE 141

A B C D E



Possible Hydrates:
1460' - 1470'
Possible Hydrates:
1810' - 1835'

IBPF: 2300'

Base Trans: 2630'

LOGS (LEFT TO RIGHT)

- (A) IES
- (B) BHCS
- (C) FDEN
- (D) SNP
- (E)



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PERMAFROST/GAS HYDRATE STUDY
ARCTIC ISLANDS
EMERALD K-33

CG10095

DATE 1/92

(A)

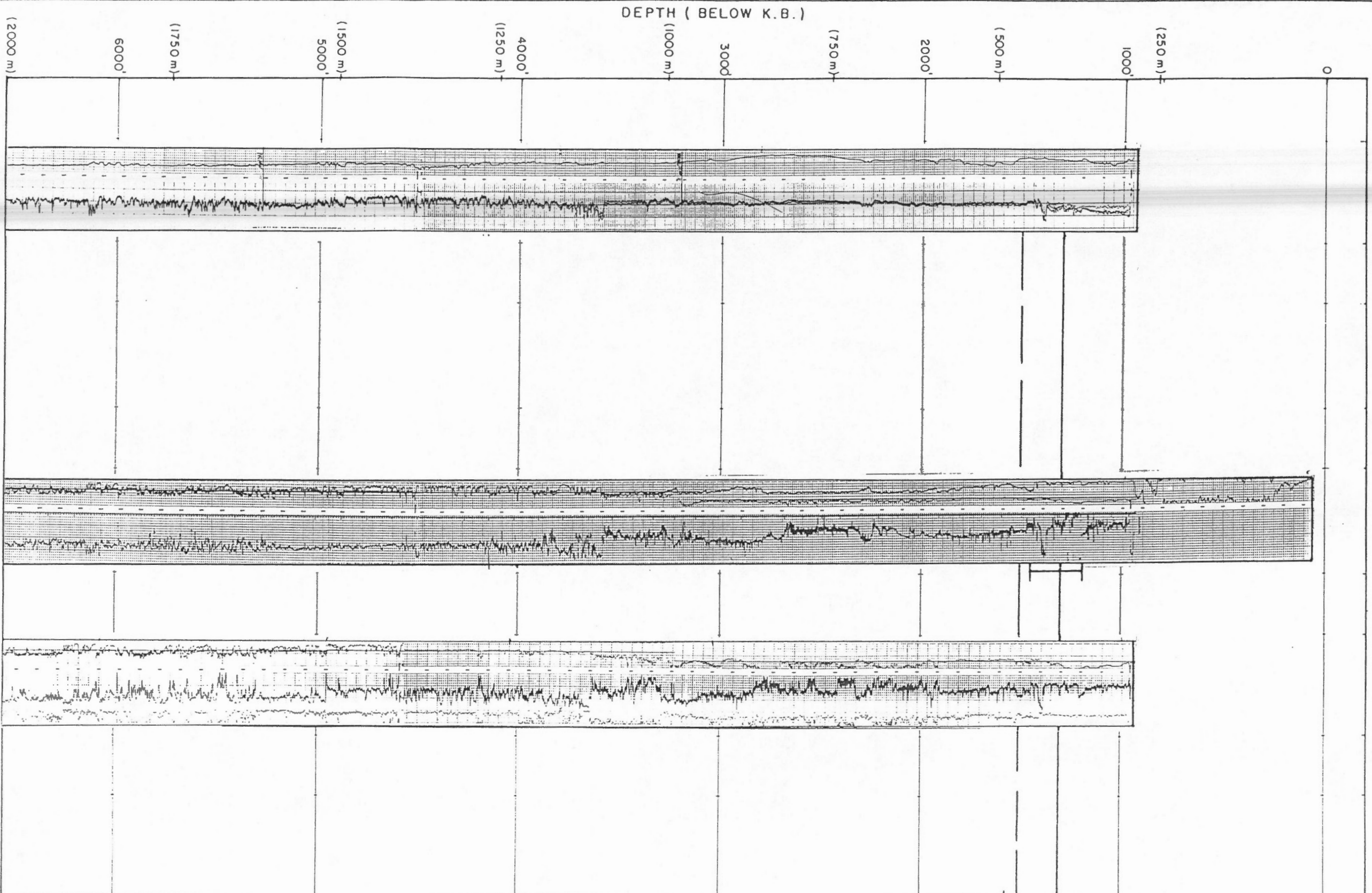
(B)

(C)

(D)

(E)

PERMAFROST /
HYDRATES



Possible Hydrates:
1210' - 1450'

IBPF: 1300'

Base Trans: 1530'

E.P.B. 0°C: 1568'

DEPTH (BELOW K.B.)

(2000 m)

6000'

(1750 m)

5000'

(1500 m)

4000'

(1250 m)

3000'

(1000 m)

2000'

(750 m)

1000'

(500 m)

LOGS (LEFT TO RIGHT)

(A) DILL

(B) BHCS

(C) BHCS

(D) FDEN

(E)



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PERMAFROST / GAS HYDRATE STUDY

ARCTIC ISLANDS

JAMESON BAY C-31

CG10095

PLATE 143

A

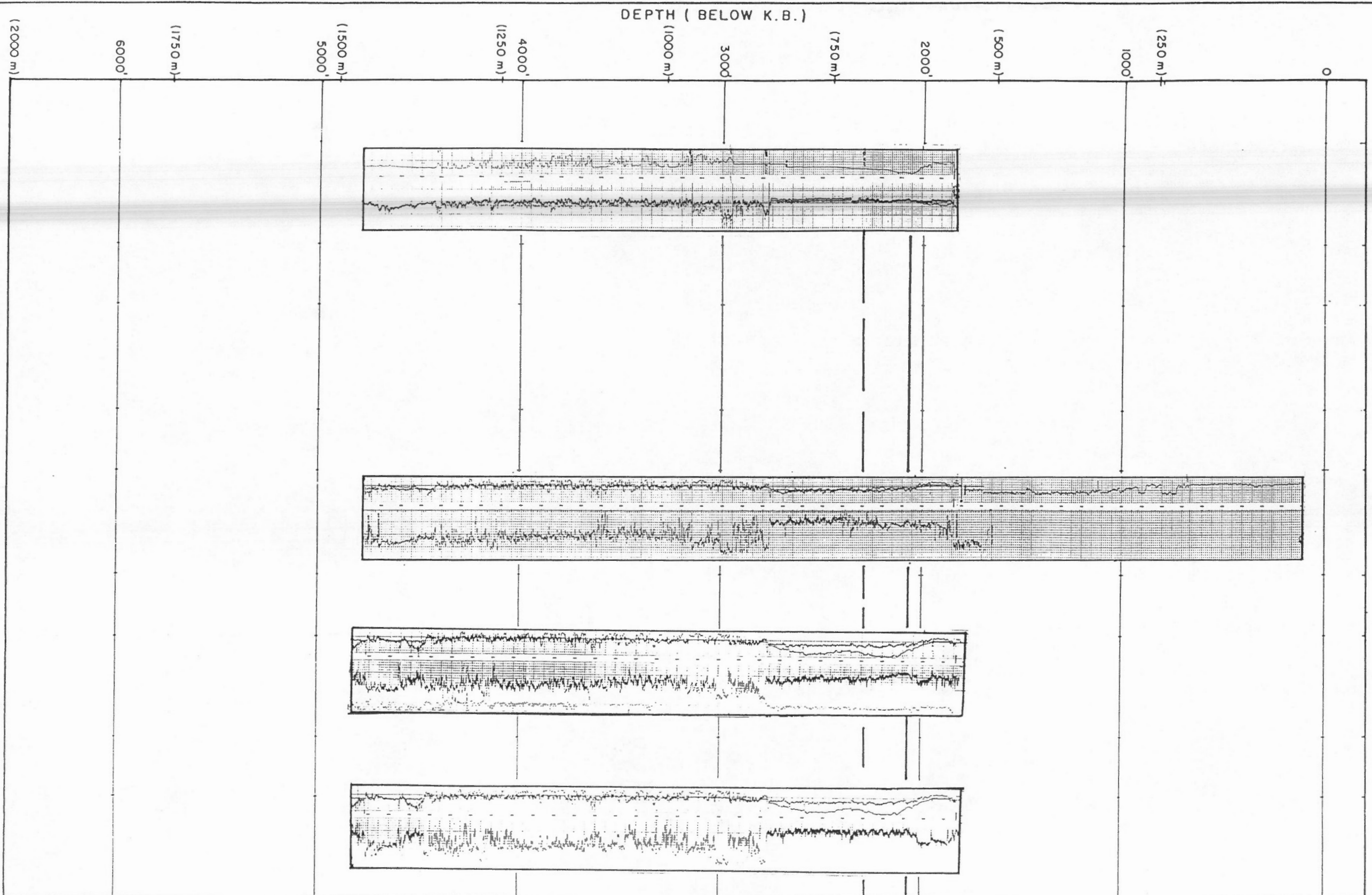
B

C

D

E

PERMAFROST /
HYDRATES



1 BPF: 2060
 Base Trans: 2270'
 No Hydrates Logged

LOGS (LEFT TO RIGHT)

- (A) DILL
- (B) BHCS
- (C) FDEN
- (D) SNP
- (E)



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PERMAFROST/GAS HYDRATE STUDY
 ARCTIC ISLANDS
 INTREPID INLET H-49

CG10095

PLATE 144

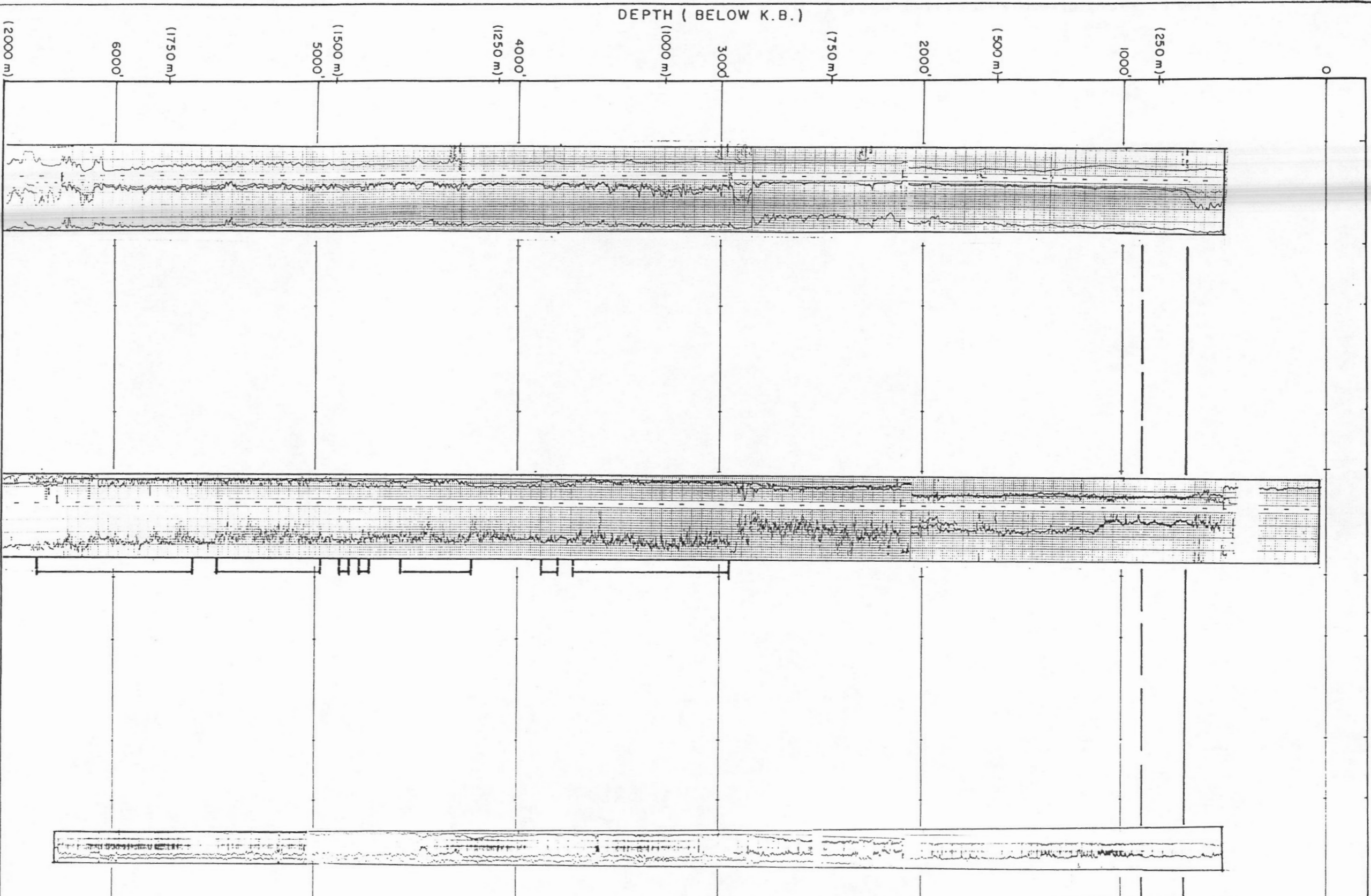
(A)

(B)

(C)

(D)

(E)



IBPF: -690'

Base Trans: 890'

Possible Hydrates:
2955' - 3900'

Possible Hydrates:
4265' - 5530'

Possible Hydrates
(Scattered)
4265' - 6405'

DEPTH (BELOW K.B.)

(2000 m)

6000'

(1750 m)

5000'

(1500 m)

4000'

(1250 m)

3000'

(1000 m)

(750 m)

2000'

(500 m)

1000'

(250 m)

0

LOGS (LEFT TO RIGHT)

(A) IES

(B) BHCS

(C) BHCS

(D) FDEN

(E) FDEN



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PERMAFROST / GAS HYDRATE STUDY

ARCTIC ISLANDS

SATELLITE F-68

CG10095

PLATE 145

(A)

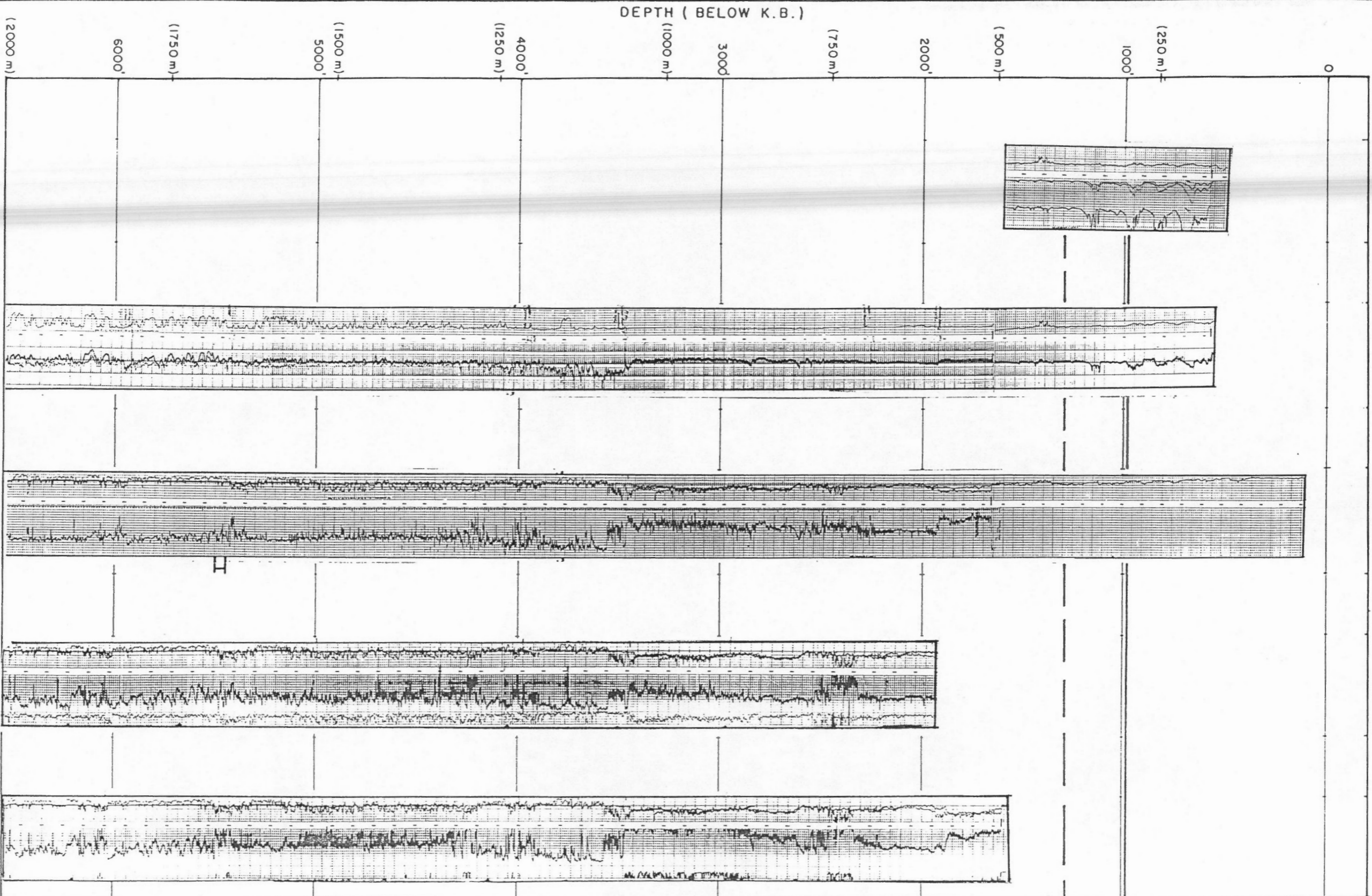
(B)

(C)

(D)

(E)

PERMAFROST
HYDRATES



DEPTH (BELOW K.B.)

0

(250 m)

1000'

(500 m)

2000'

(750 m)

3000'

(1000 m)

4000'

(1250 m)

(1500 m)

5000'

(1750 m)

6000'

(2000 m)

LOGS (LEFT TO RIGHT)

- (A) EL
- (B) DILL
- (C) BHCS
- (D) FDEN
- (E) SNP



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PERMAFROST / GAS HYDRATE STUDY

ARCTIC ISLANDS

ANDREASEN L-32

Possible Hydrates!
5100' - 5150'

CG10095

PLATE 146

A

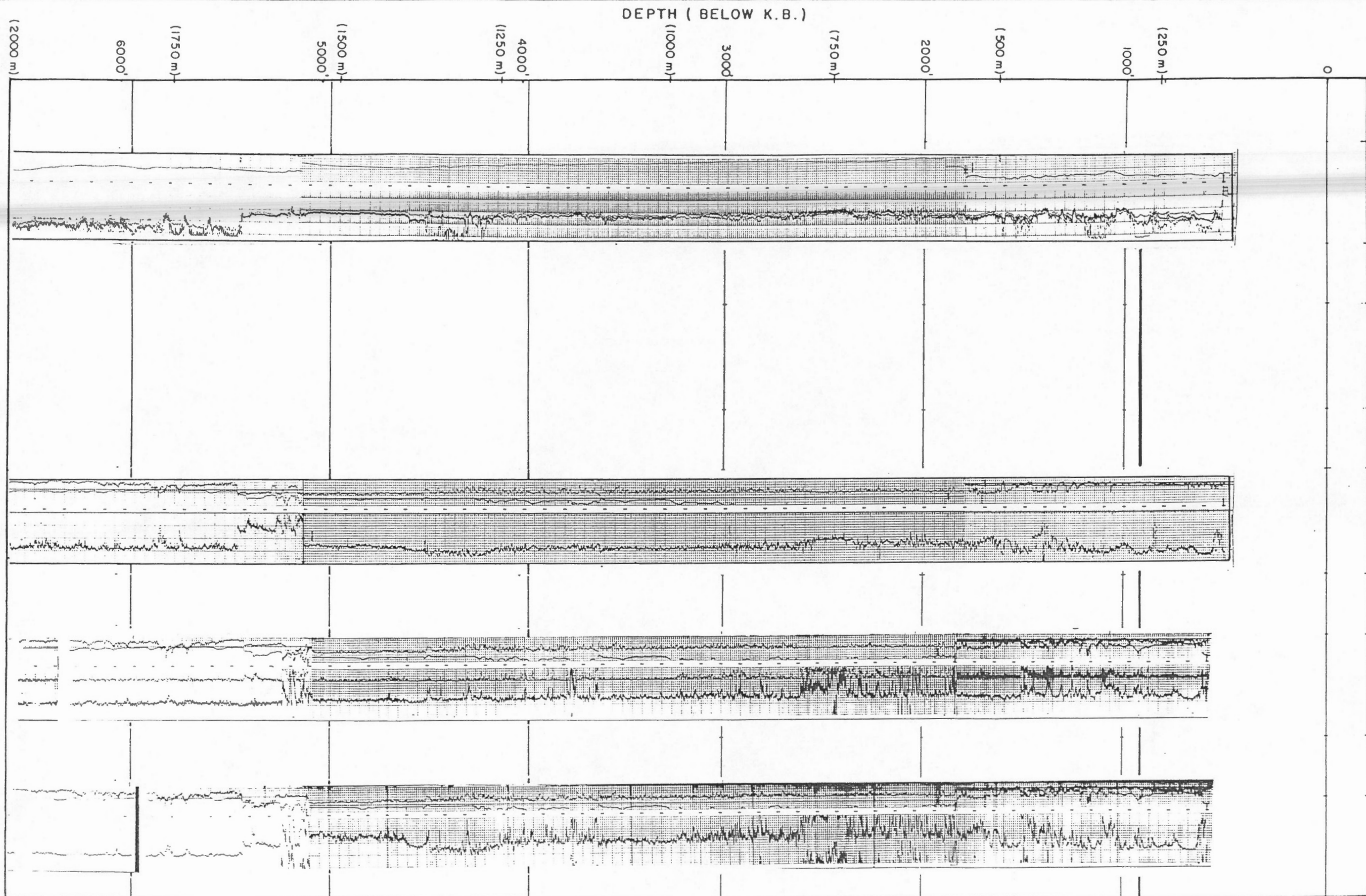
B

C

D

E

PERMAFROST
HYDRATES



? Hydrates:
835' - 855'

18PF: 960'

Possible Hydrates:
1200' - 1415'

Possible Hydrates:
1950' - 2040'

DEPTH (BELOW K.B.)

0
 (250 m)
 1000'
 (500 m)
 2000'
 (750 m)
 3000'
 (1000 m)
 4000'
 (1250 m)
 5000'
 (1500 m)
 6000'
 (1750 m)
 (2000 m)

LOGS (LEFT TO RIGHT)

- (A) DILL
- (B) BHCS
- (C) FDN
- (D) SNP
- (E)



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PERMAFROST/GAS HYDRATE STUDY

ARCTIC ISLANDS

BROCK C-50

CG10095

PLATE 147

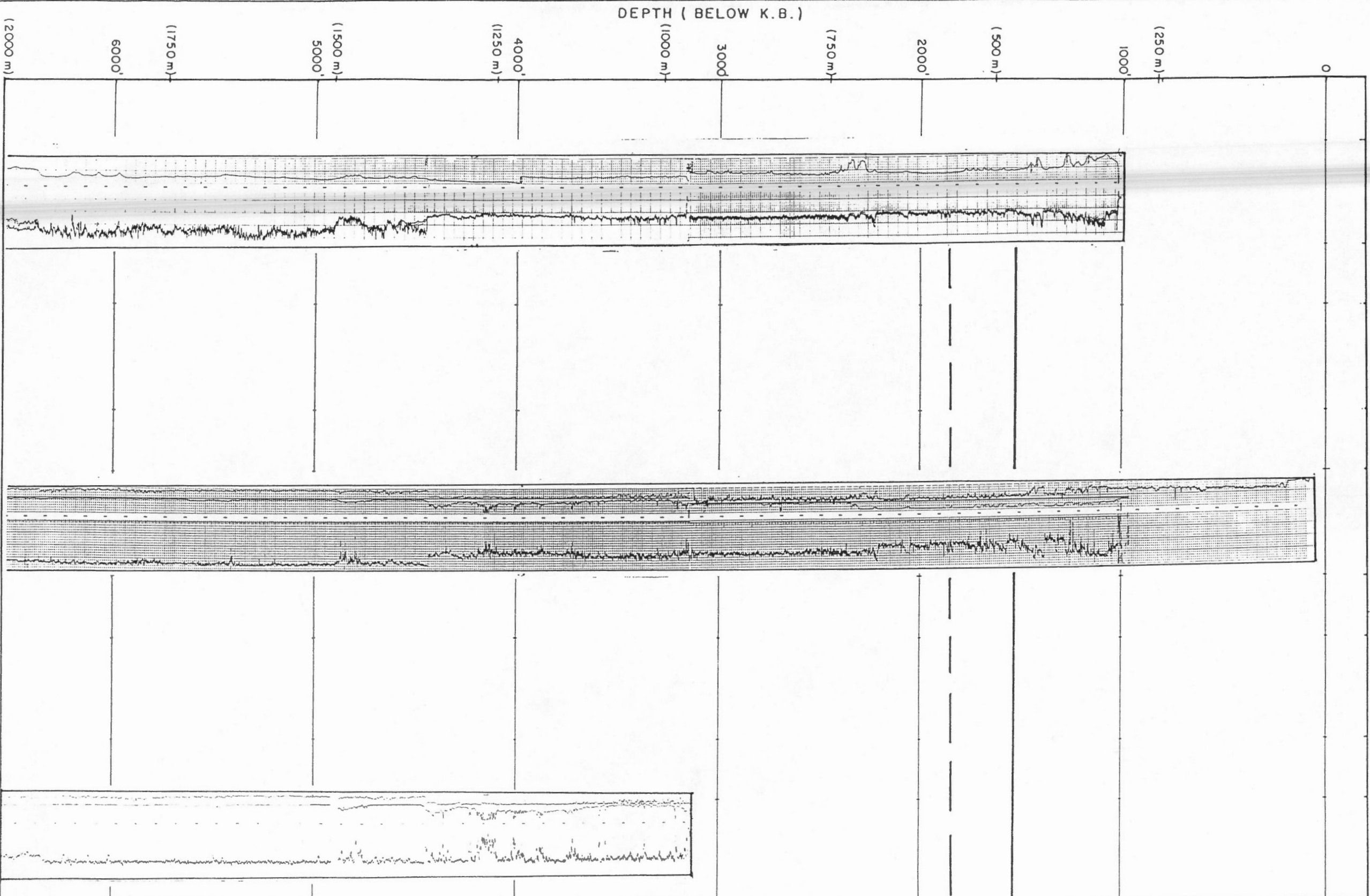
(A)

(B)

(C)

(D)

(E)



18PF: 1510'
Base Trans: 1875
No Hydrates Logged

LOGS (LEFT TO RIGHT)

- (A) DILL
- (B) BHCS
- (C) FDEN
- (D)
- (E)



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PERMAFROST/GAS HYDRATE STUDY

ARCTIC ISLANDS
BROCK 1-20

CG10095

PLATE 148

(A)

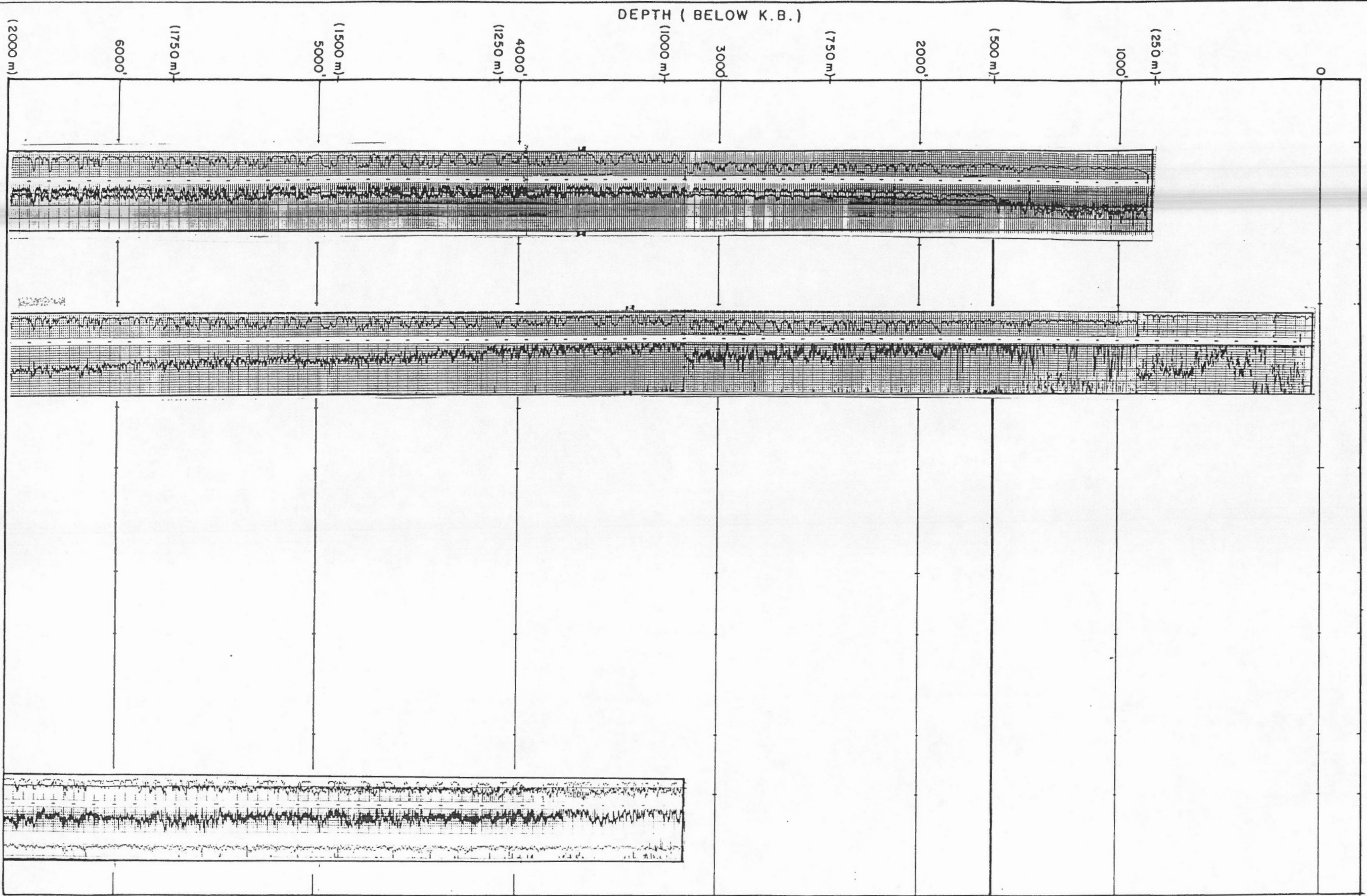
(B)

(C)

(D)

(E)

PERMAFROST /
HYDRATES



IBPF: 1620'
No evidence of
hydrates

LOGS (LEFT TO RIGHT)

- (A) DILL
- (B) BNCS
- (C) CNFD
- (D)
- (E)



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PERMAFROST/GAS HYDRATE STUDY
ARCTIC ISLANDS
CROCKER 1-53

CG10095

PLATE 149

A

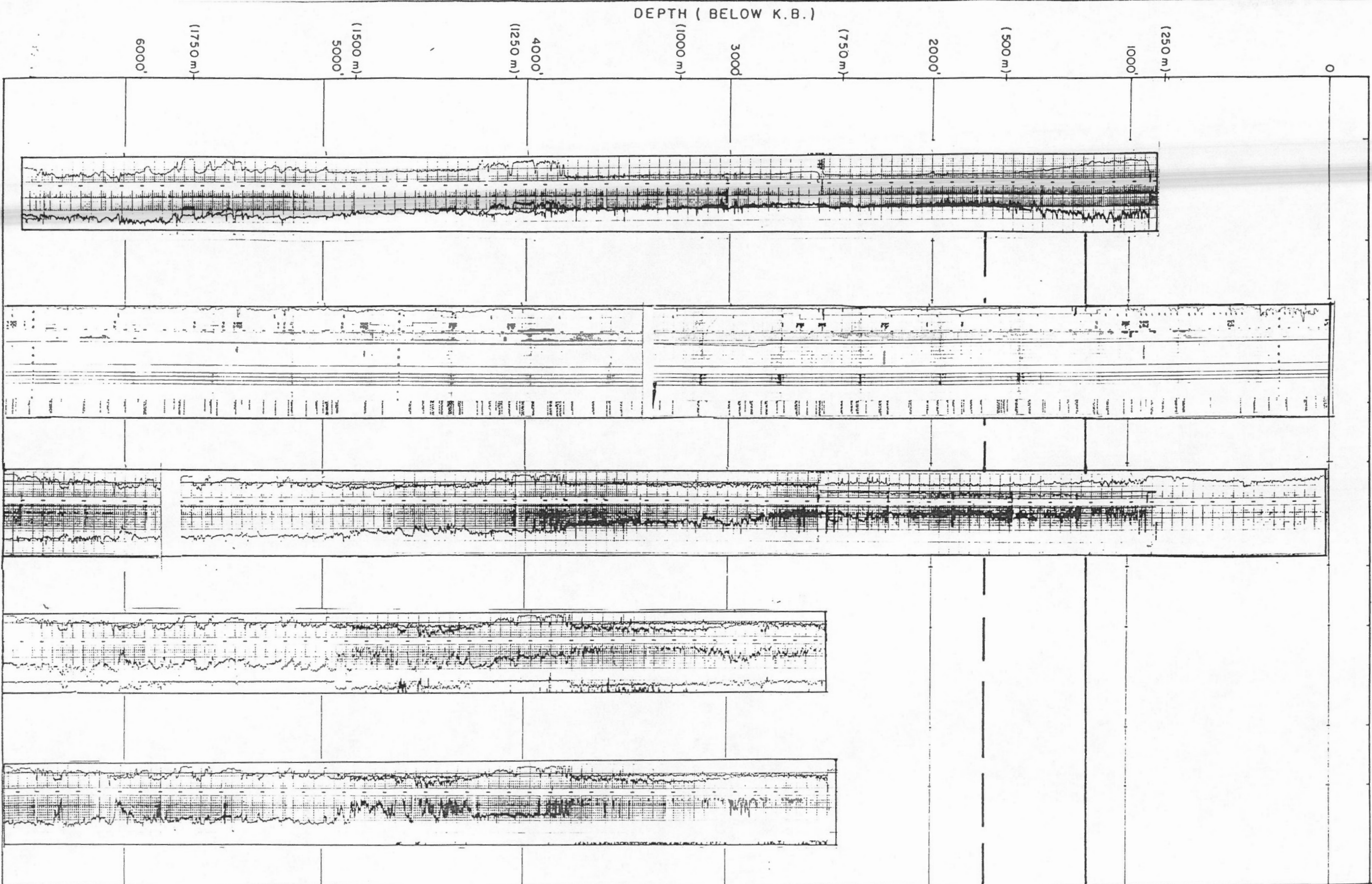
B

C

D

E

PERMAFROST
HYDRATES



1BPF: 1260'

Base Trans: 1740'

No Hydrates Logged

DEPTH (BELOW K.B.)

(250 m)

1000'

(500 m)

2000'

(750 m)

3000'

(1000 m)

4000'

(1250 m)

(1500 m)

5000'

(1750 m)

6000'

LOGS (LEFT TO RIGHT)

- (A) DILL
- (B) MUD
- (C) BHCS
- (D) FDEN
- (E) SNP



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PERMAFROST / GAS HYDRATE STUDY

ARCTIC ISLANDS
HALYCON 0-16

CG10095

PLATE 150

(A)

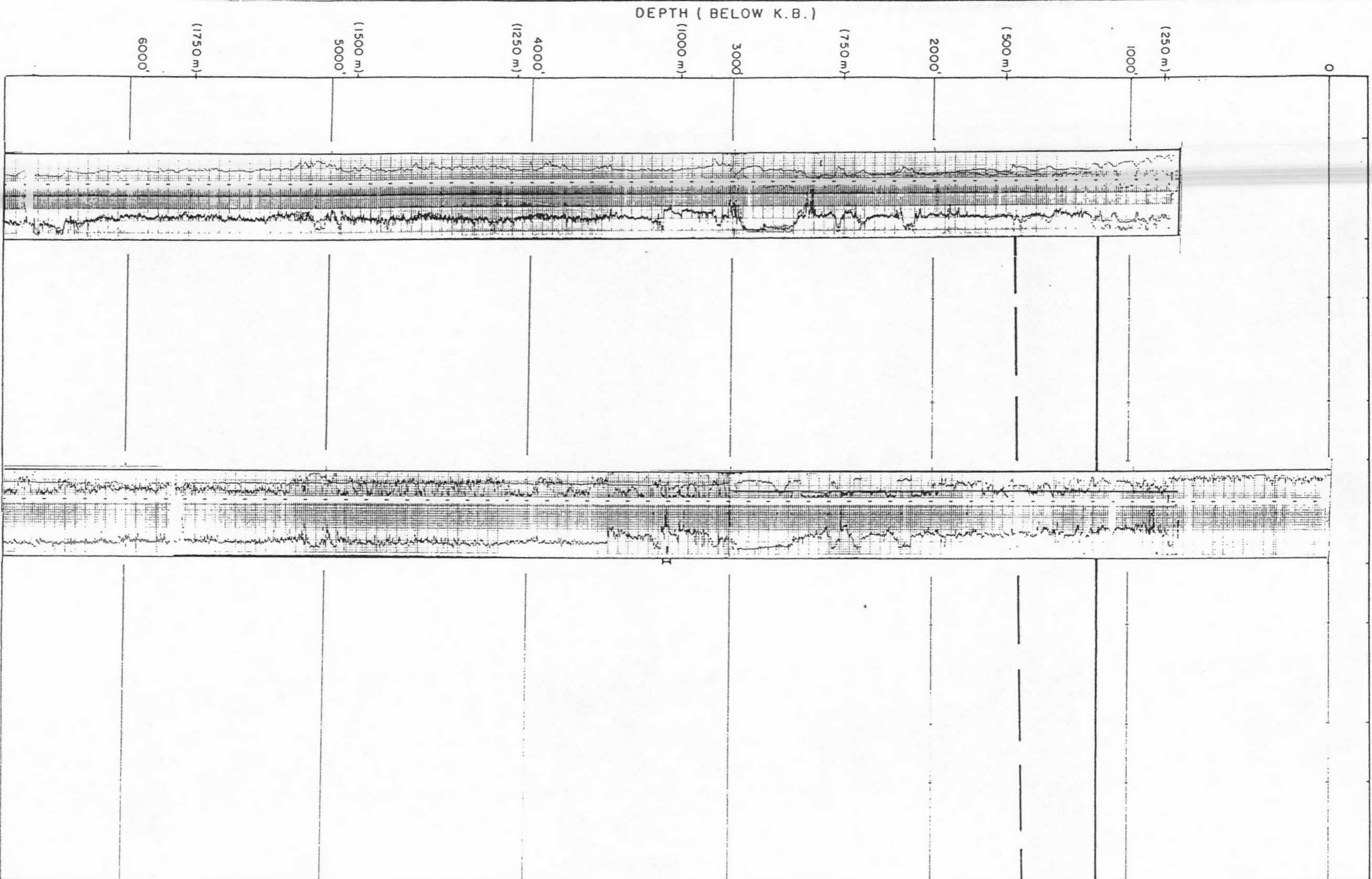
(B)

(C)

(D)

(E)

PERMAFROST
HYDRATES



LOGS (LEFT TO RIGHT)

(A) DILL

(B) BHCS
(C)
(D)
(E)



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PERMAFROST/GAS HYDRATE STUDY

ARCTIC ISLANDS

NEIL O-15

CG10095

PLATE 151