OF - 84-27
volumes 2

STUDY OF WELL LOGS IN THE WESTERN NORTHWEST TERRITORIES AND YUKON 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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CG 10136 JUNE, 1984

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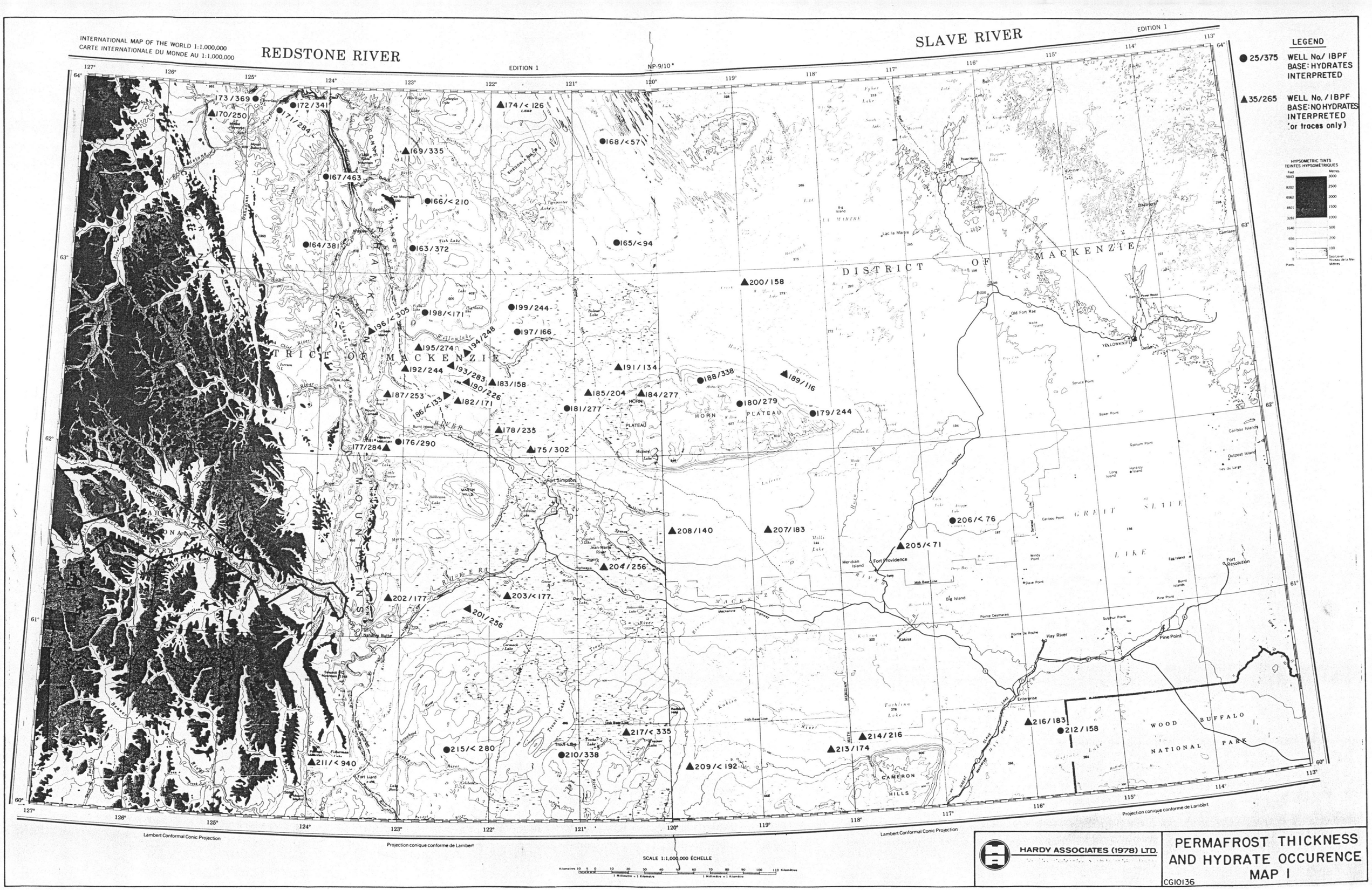
APPENDIX "B"
Maps (Volume II)


INTERNATIONAL MAP OF THE WORLD 1:1,000,000
CARTE INTERNATIONALE DU MONDE AU 1:1,000,000
REDSTONE RIVER
SLAVE RIVER
EDITION 1
NP-9/10
LEGEND
25/375 WELL No./ IBPF BASE: HYDRATES INTERPRETED
35/265 WELL No. / IBPF BASE: NO HYDRATES INTERPRETED (or traces only)
HYPSOMETRIC TINTS
TEINTES HYPSOMÉTRIQUES
DISTRICT OF MACKENZIE
HORN PLATEAU
GREAT SLAVE LAKE
WOOD BUFFALO NATIONAL PARK
CAMERON HILLS
Fort Simpson
Fort Providence
Hay River
Pine Point
Fort Resolution
Enterprise
Yellowknife
Lambert Conformal Conic Projection
Projection conique conforme de Lambert
SCALE 1:1,000,000 ÉCHELLE
HARDY ASSOCIATES (1978) LTD.
PERMAFROST THICKNESS AND HYDRATE OCCURENCE MAP I
CG10136

INTERNATIONAL MAP OF THE WORLD 1:1,000,000
CARTE INTERNATIONALE DU MONDE AU 1:1,000,000

NQ-9/10/11/12*

GREAT BEAR RIVER

EDITION 1

Off shore islands lie within the District of Franklin, Northwest Territories
Les îles du large font partie du district de Franklin, Territoires du Nord-Ouest

LEGEND

● 25/375 — WELL No./ IBPF
BASE: HYDRATES
INTERPRETED

▲ 35/265 — WELL No. / IBPF
BASE: NO HYDRATES
INTERPRETED
(or traces only)

HYPSOMETRIC TINTS
TEINTES HYPSOMÉTRIQUES

Feet	Metres
6562	2000
4921	1500
3281	1000
1640	500
656	200
328	100
0	Sea Level / Niveau De La Mer

BATHYMETRIC TINTS
TEINTES BATHYMÉTRIQUES

0	0
656	200
1640	500
Feet	Metres

● 25/375
▲ 21/<732
● 13/326
▲ 12/<251
▲ 1/<198
▲ 133/372
● 125/213
▲ 110/256
▲ 117/207
● 121/<209
● 116/299
● 109/280
● 108/312
● 114/259
▲ 112/195
NORMAN WELLS
(WELLS 75 to 107)
● 74/415
● 73/415
● 72/<307
● 71/283
● 162/<129
● 161/216
● 160/418
● 158/241
● 159/216
● 156/268
● 157/<203
● 155/<230
● 154/<302
● 153/<312
● 152/399
● 151/227
● 150/415
● 147/159
● 145/<311
● 146/290
● 149/183
● 148/280
● 144/<213

Lambert Conformal Conic Projection

Projection conique conforme de Lambert

SCALE 1:1,000,000 ÉCHELLE

Kilometres 10 5 0 10 20 30 40 50 60 70 80 90 100 110 Kilometres
1 Millimetre = 1 Kilometre
1 Millimètre = 1 Kilomètre

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PERMAFROST THICKNESS AND HYDRATE OCCURENCE MAP 2

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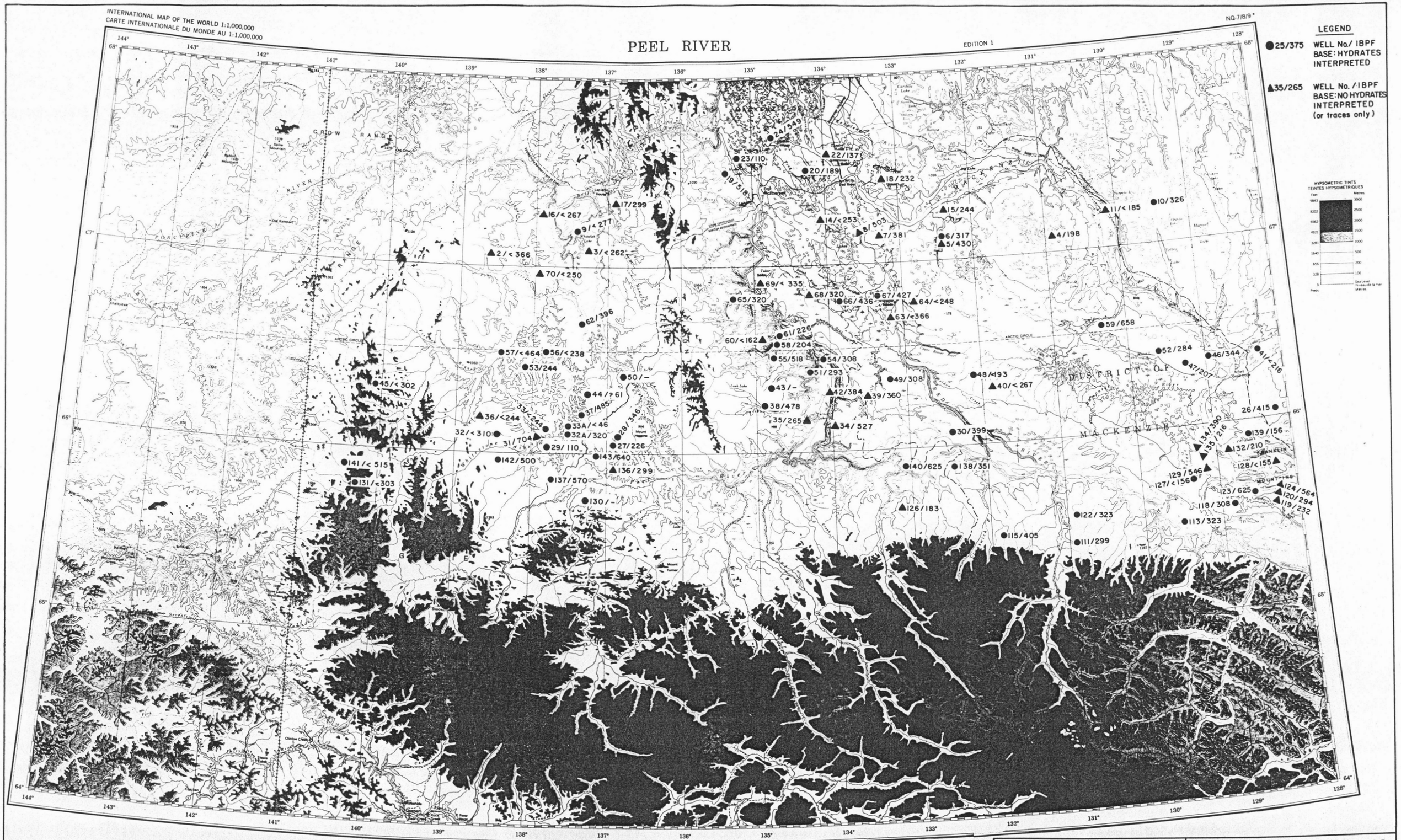
INTERNATIONAL MAP OF THE WORLD 1:1,000,000
CARTE INTERNATIONALE DU MONDE AU 1:1,000,000

NQ-7/8/9

PEEL RIVER

EDITION 1



Lambert Conformal Conic Projection

Projection conique conforme de Lambert

SCALE 1:1,000,000 ÉCHELLE

Kilometres 10 5 0 10 20 30 40 50 60 70 80 90 100 110 Kilomètres

1 Millimètre = 1 Kilomètre

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PERMAFROST THICKNESS AND HYDRATE OCCURENCE MAP 3

CG10136

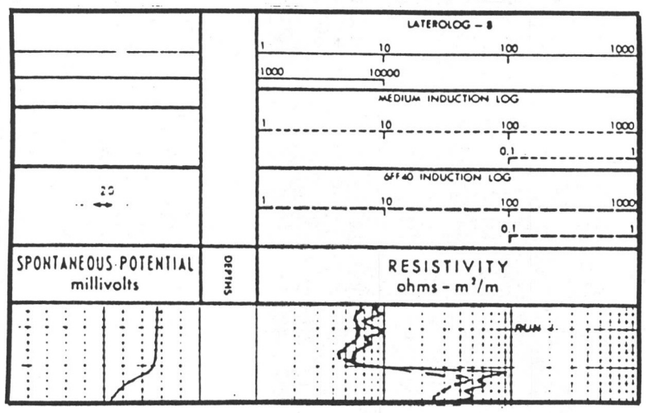
APPENDIX "C"

Petrophysical Logs for Northwest Territories and Yukon Wells

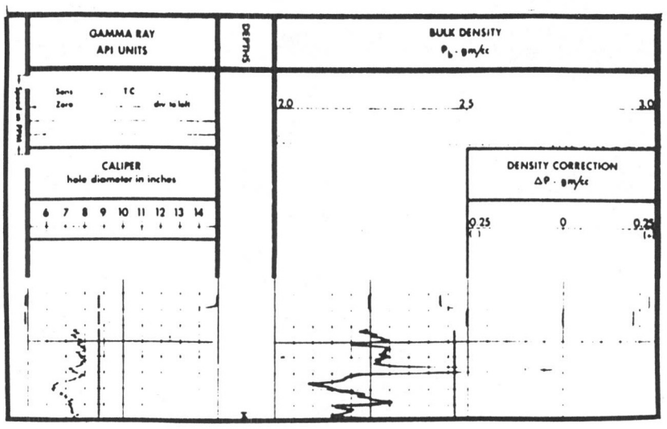
(Volume II)

TYPICAL LOG HEADER DETAILS

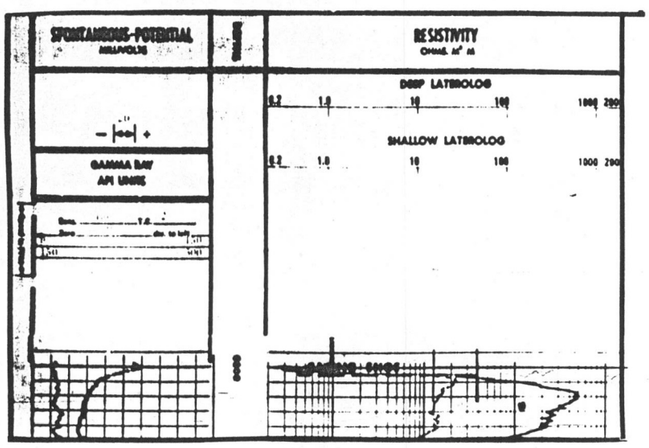
DUAL INDUCTION LATERLOG (DILL)



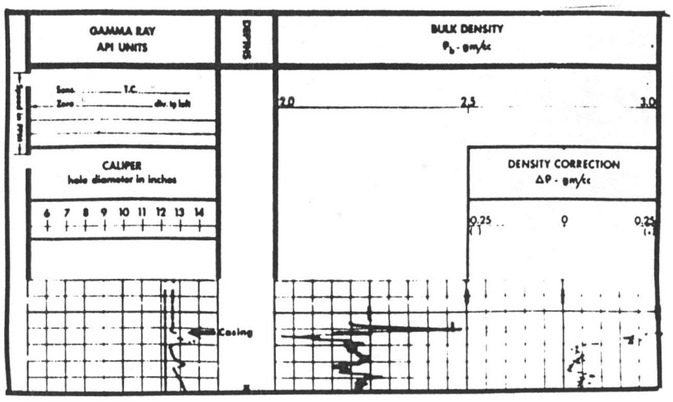
COMPENSATED NEUTON - FORMATION DENSITY (CN-FD)



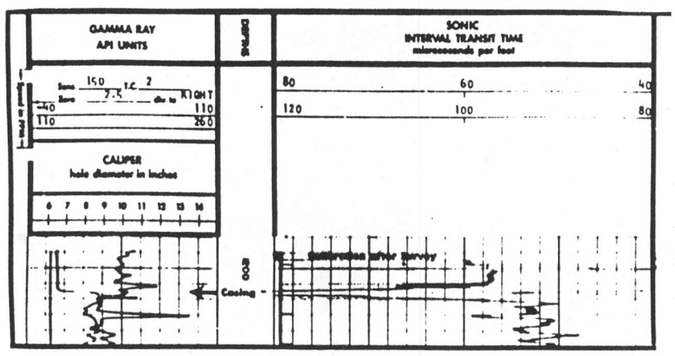
DUAL LATERLOG (D LL)



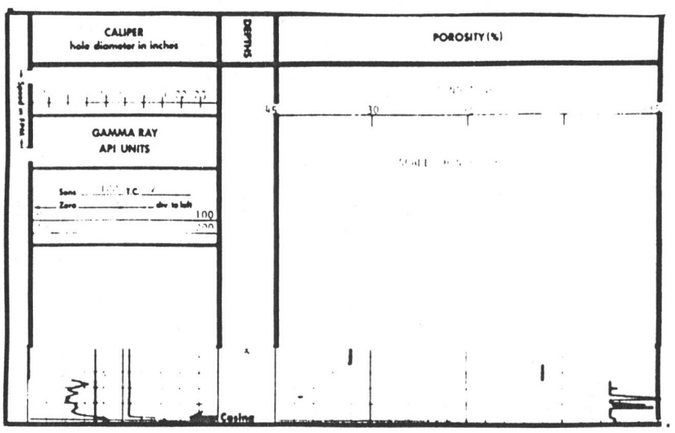
FORMATION DENSITY (FDEN)



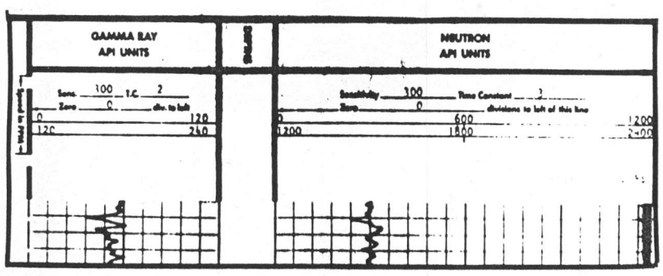
BOREHOLE COMPENSATED SONIC (BHCS)



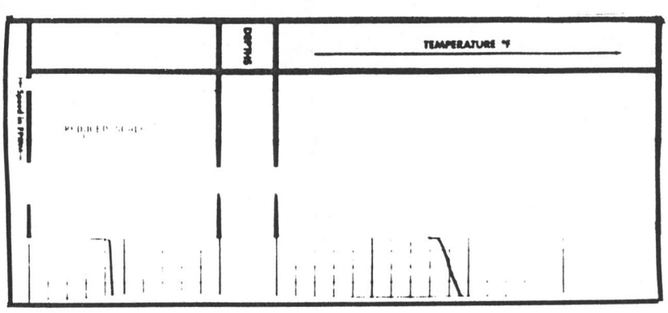
SIDEWALL NEUTRON POROSITY (SNP)

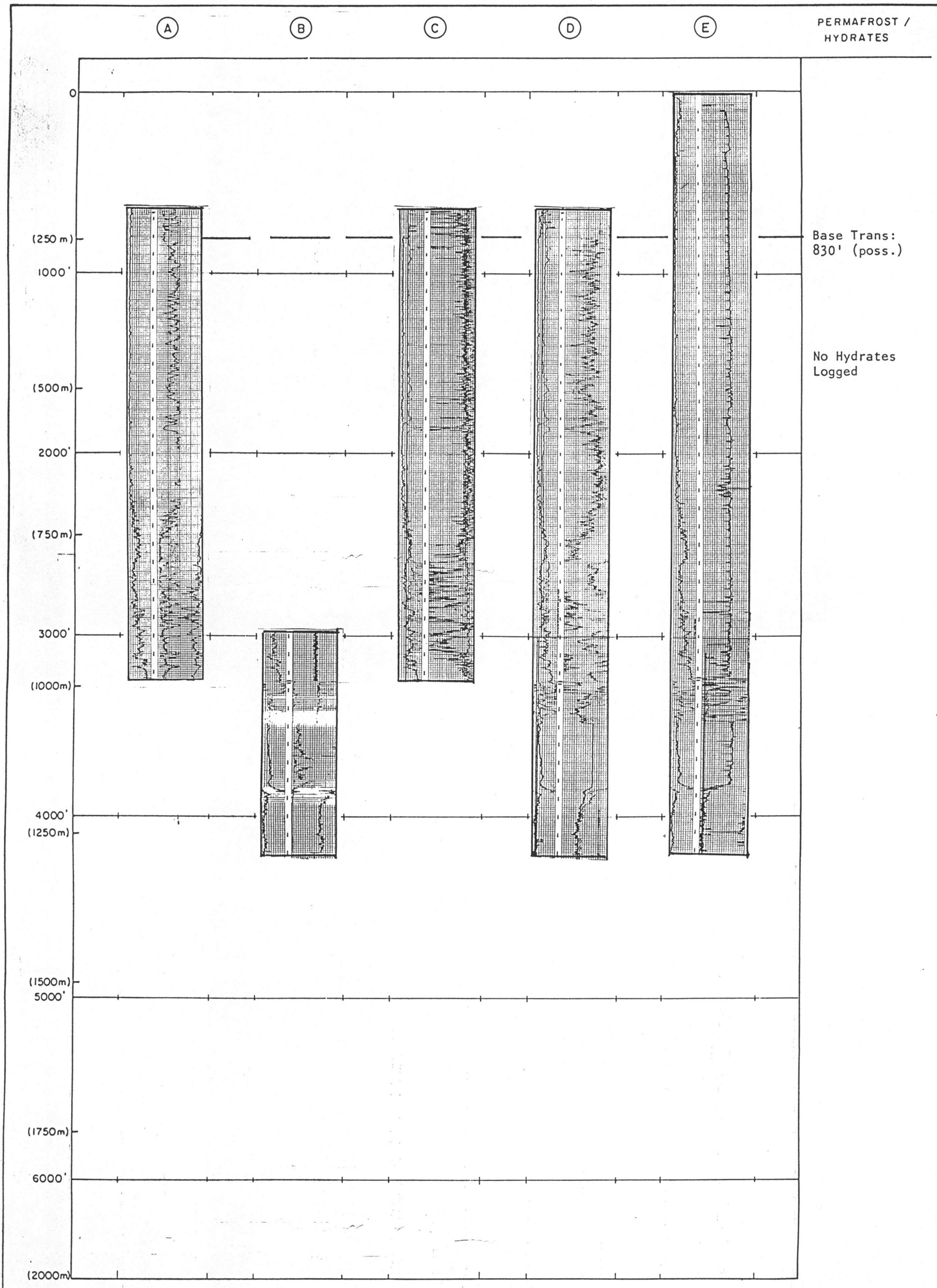


GAMMA RAY - NEUTRON (GRN)



TEMPERATURE (TEMP)





LOGS (LEFT TO RIGHT)

- (A) I-EL-GR
- (B) LL
- (C) FDEN
- (D) SNP
- (E) AC GR

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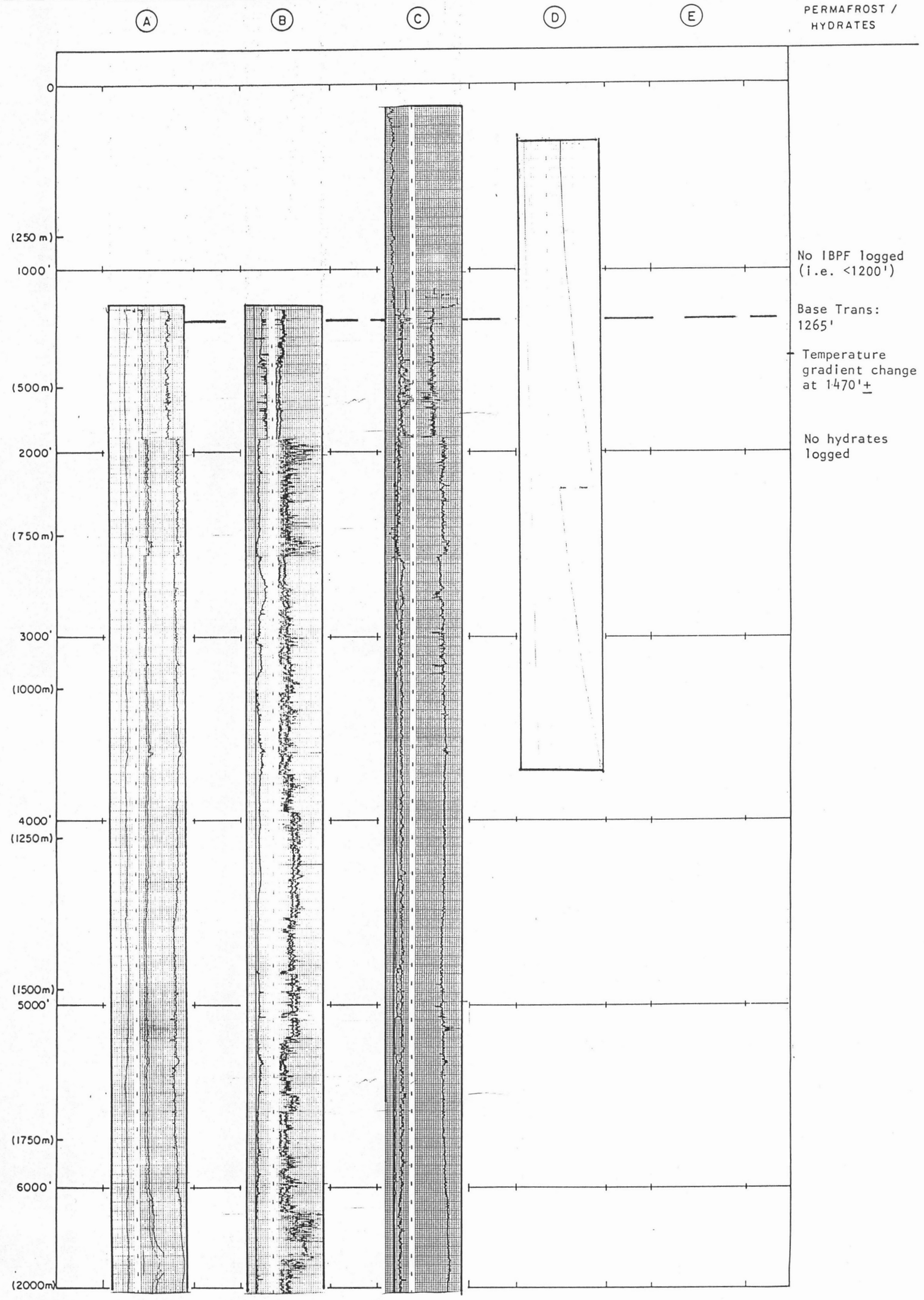
PERMAFROST / GAS HYDRATE STUDY
NORTHWEST TERRITORIES - YUKON
BELOT HILLS M-63

CG10136

FIGURE 1



LOGS (LEFT TO RIGHT)

- (A) IND E
- (B) ML-C
- (C) SGRC
- (D) TEMP
- (E)

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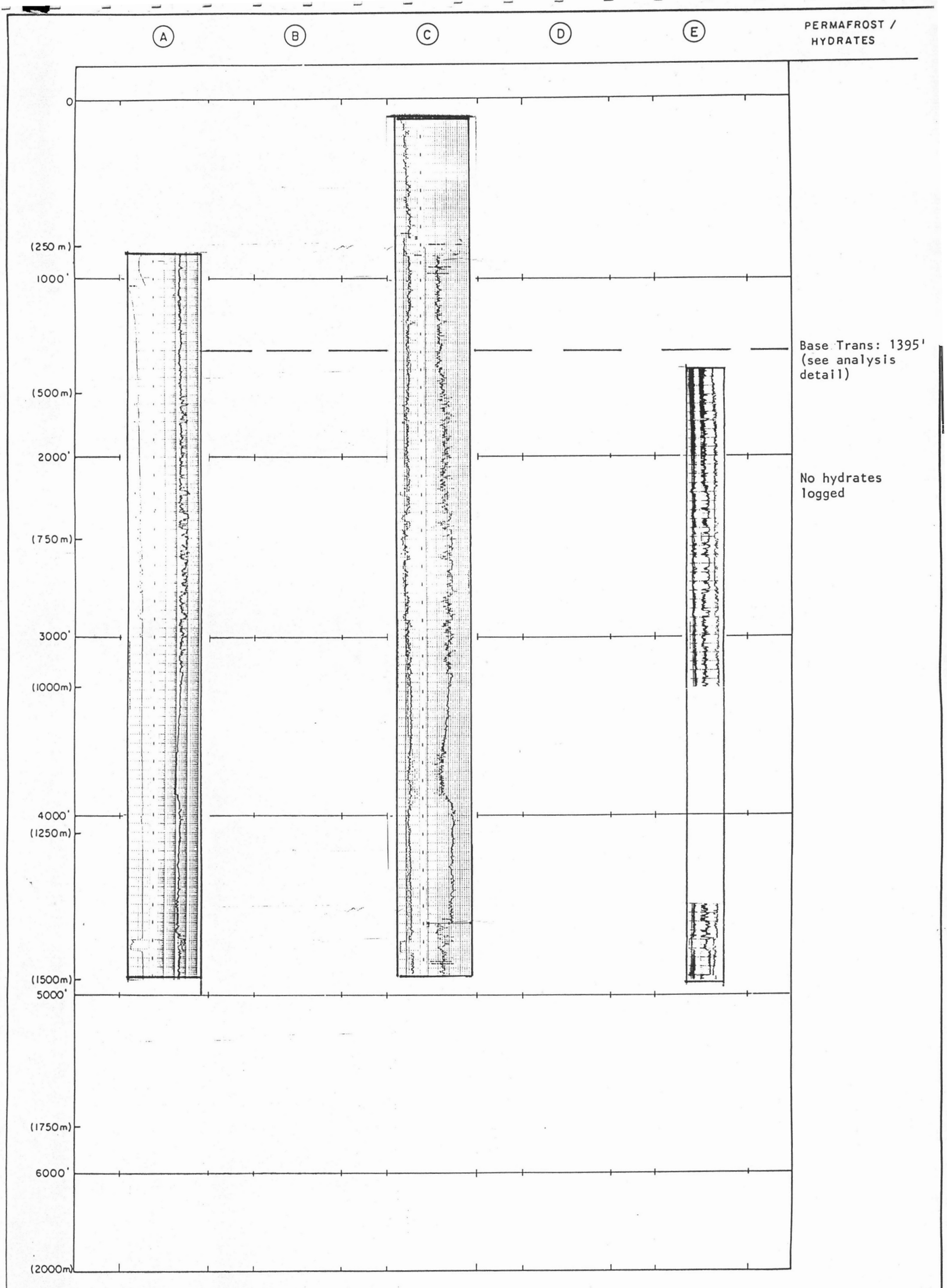
PERMAFROST / GAS HYDRATE STUDY
NORTHWEST TERRITORIES - YUKON
MOLAR Y.T. P-34

CGI0136

FIGURE 2



LOGS (LEFT TO RIGHT)

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

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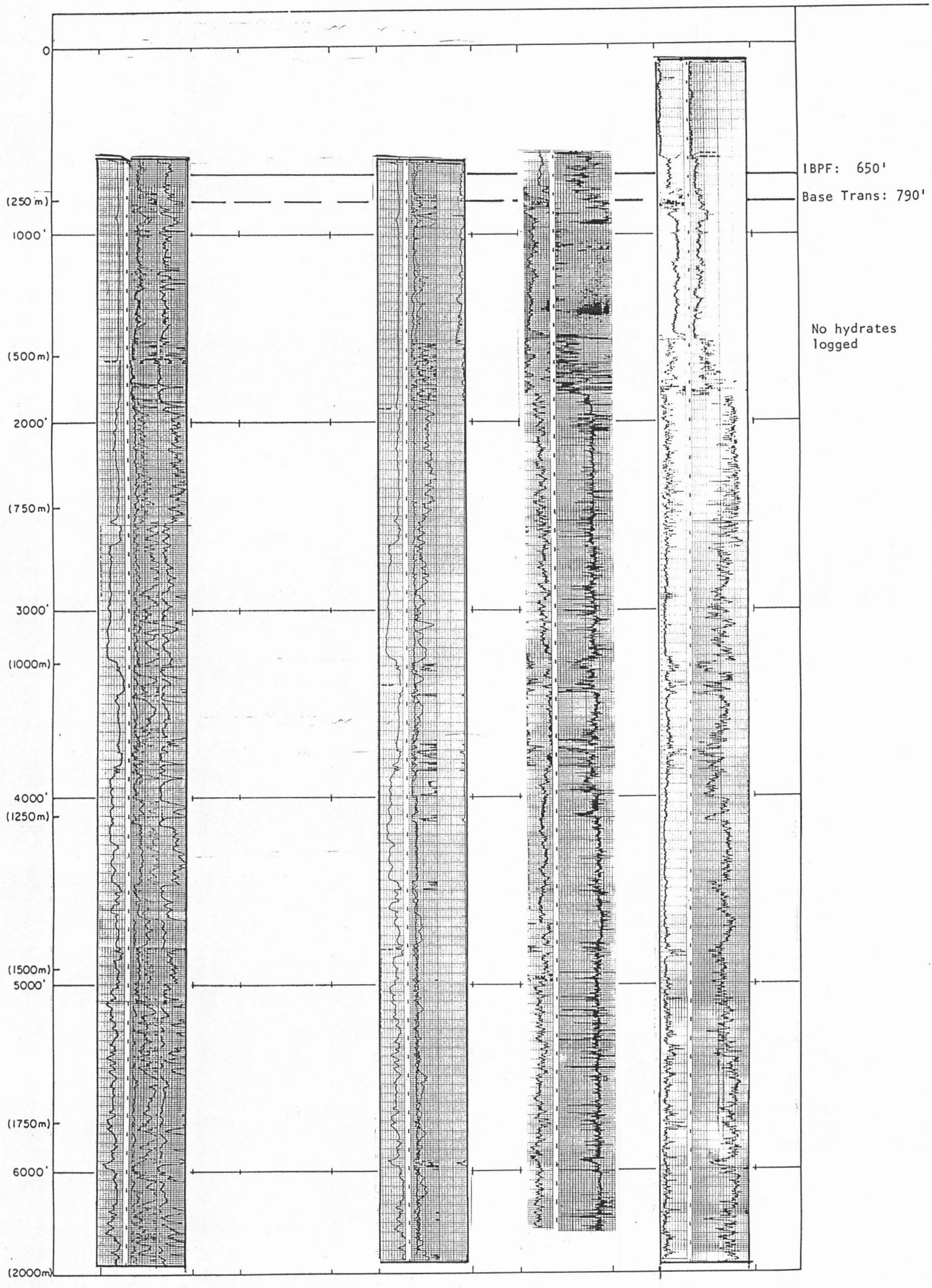
PERMAFROST / GAS HYDRATE STUDY
NORTHWEST TERRITORIES - YUKON
WHITEFISH Y.T. I-05

CG10136

FIGURE 3



LOGS (LEFT TO RIGHT)

Ⓐ EL

Ⓑ

Ⓒ IND E

Ⓓ AC GR

Ⓔ GRN

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PERMAFROST / GAS HYDRATE STUDY
NORTHWEST TERRITORIES - YUKON
GRANDVIEW HILLS No.1 A - 47

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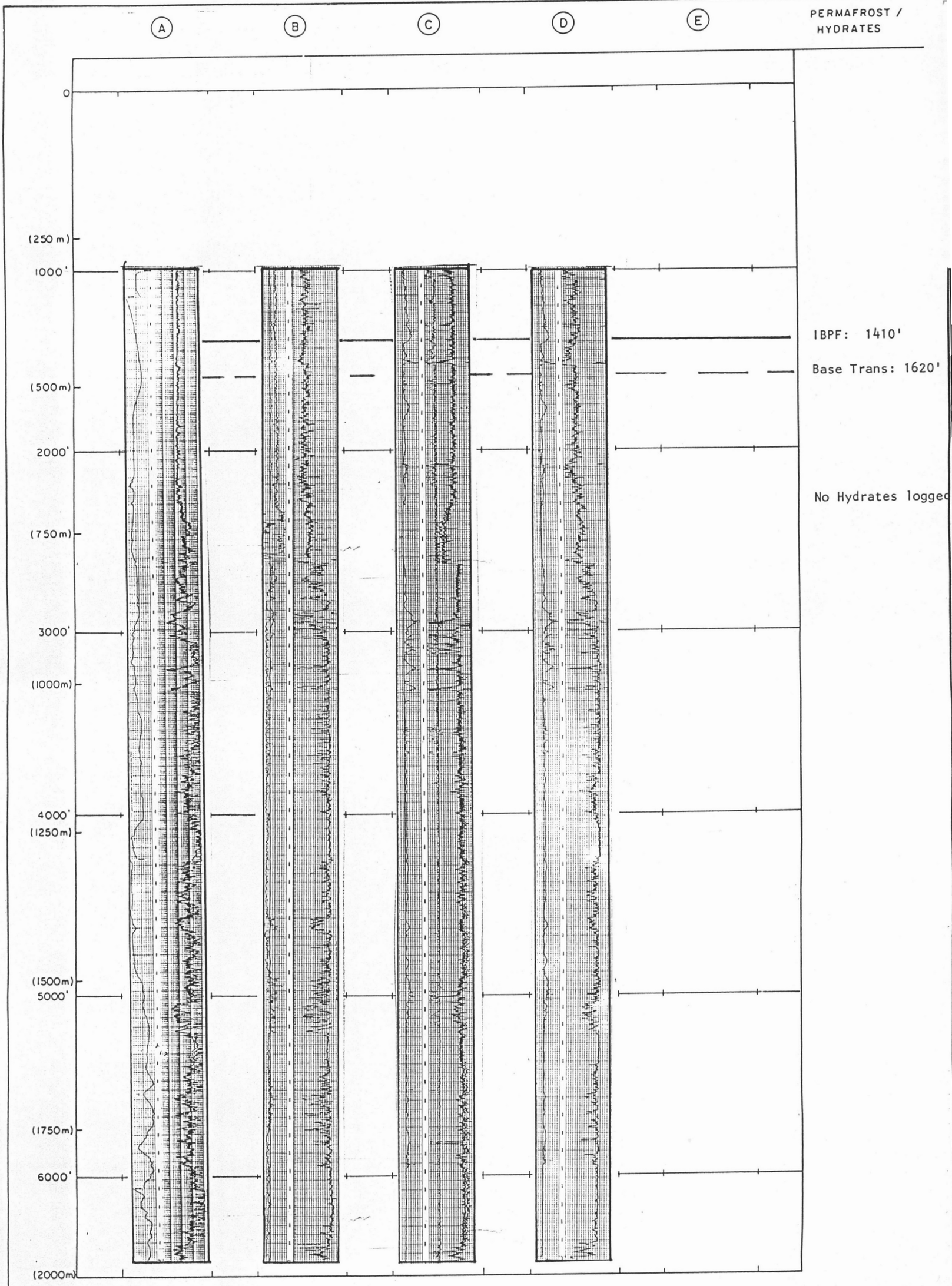
FIGURE 4



LOGS (LEFT TO RIGHT)

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

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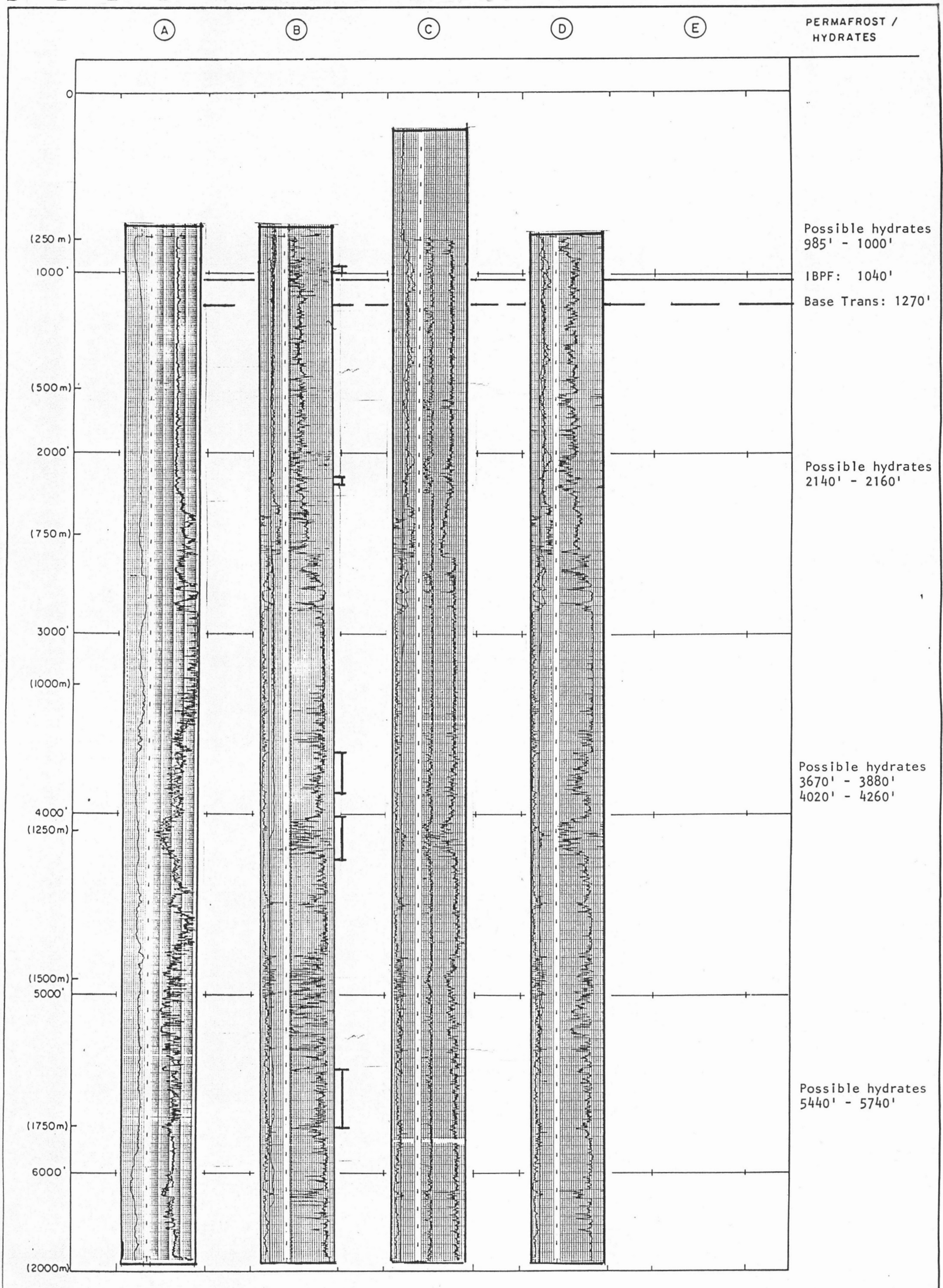
PERMAFROST / GAS HYDRATE STUDY
NORTHWEST TERRITORIES – YUKON
TREE RIVER E. H-57

CGI0136

FIGURE 5



LOGS (LEFT TO RIGHT)

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

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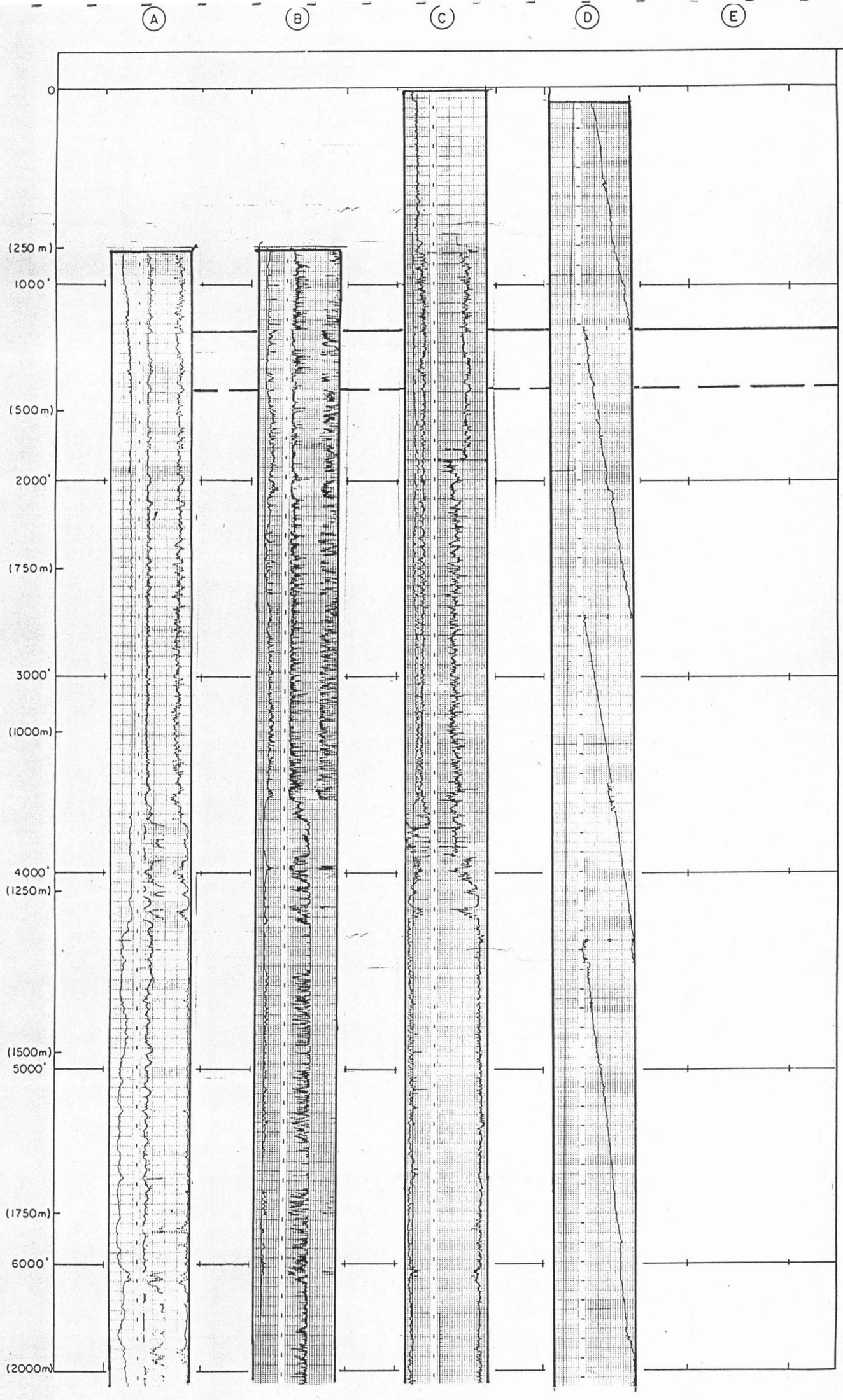
PERMAFROST / GAS HYDRATE STUDY
NORTHWEST TERRITORIES – YUKON
TREE RIVER F-57

CGI0136

FIGURE 6



LOGS (LEFT TO RIGHT)

- (A) IND E
- (B) ML-C
- (C) BHCS
- (D) TEMP
- (E)

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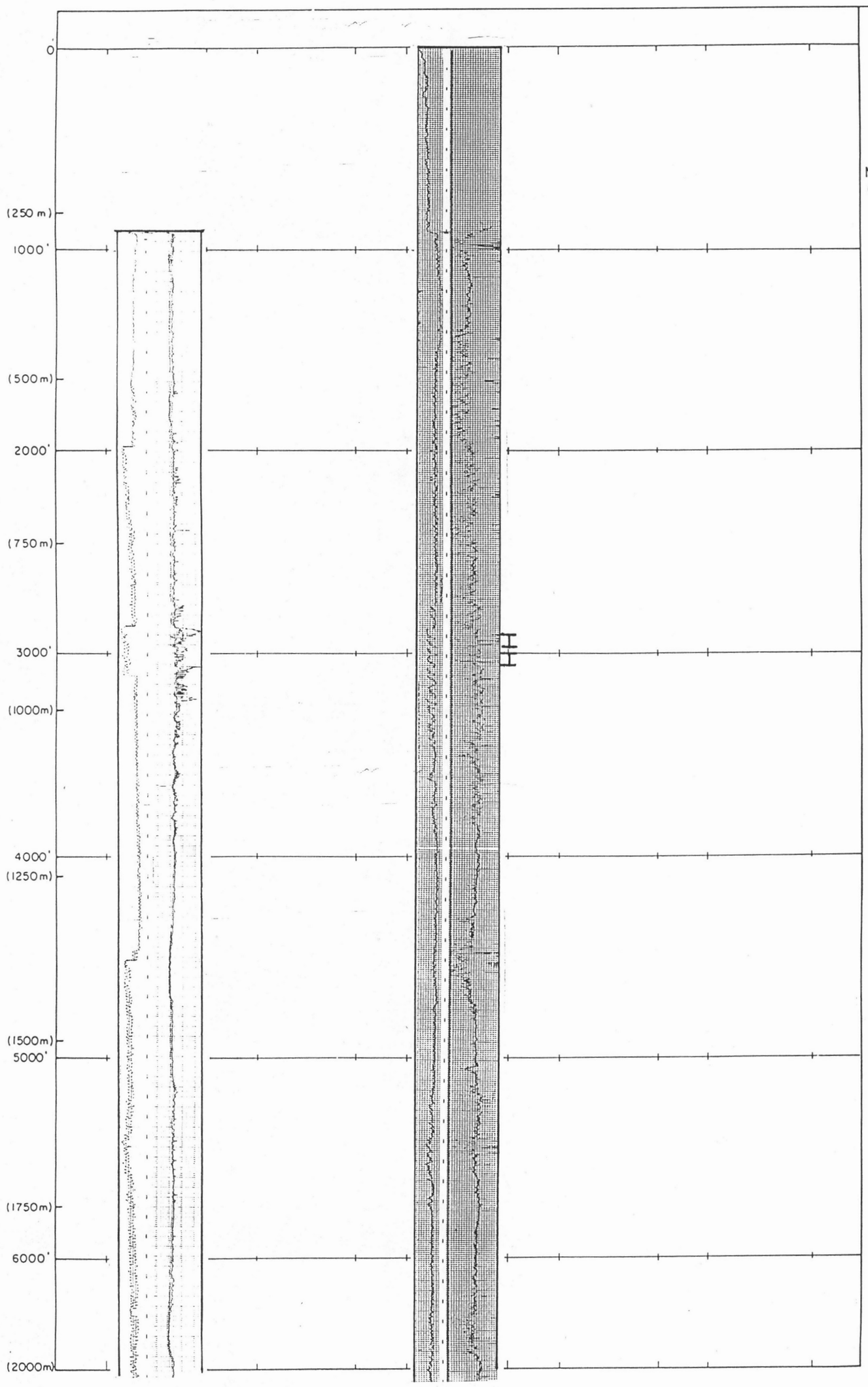
PERMAFROST / GAS HYDRATE STUDY
NORTHWEST TERRITORIES – YUKON
CLARE F-79

CG10136

FIGURE 7



LOGS (LEFT TO RIGHT)

- (A) DIFL
- (B)
- (C) AC GR
- (D)
- (E)

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PERMAFROST / GAS HYDRATE STUDY
NORTHWEST TERRITORIES - YUKON
WHITEFISH Y.T. J-70

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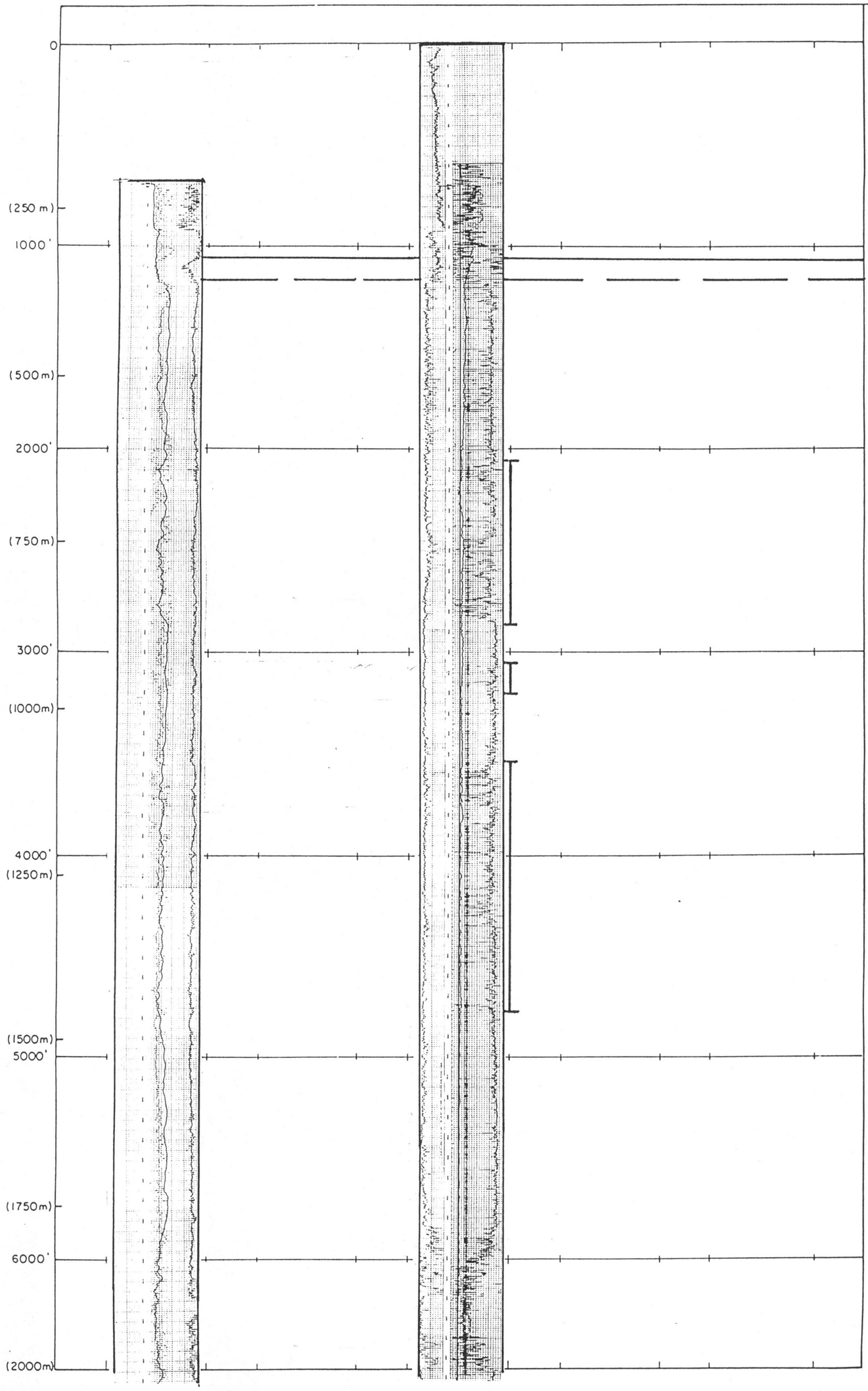
FIGURE 9



LOGS (LEFT TO RIGHT)

- (A) IND E
- (B)
- (C) AC GR
- (D)
- (E)

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PERMAFROST / GAS HYDRATE STUDY
NORTHWEST TERRITORIES – YUKON
MANUEL LAKE J - 42

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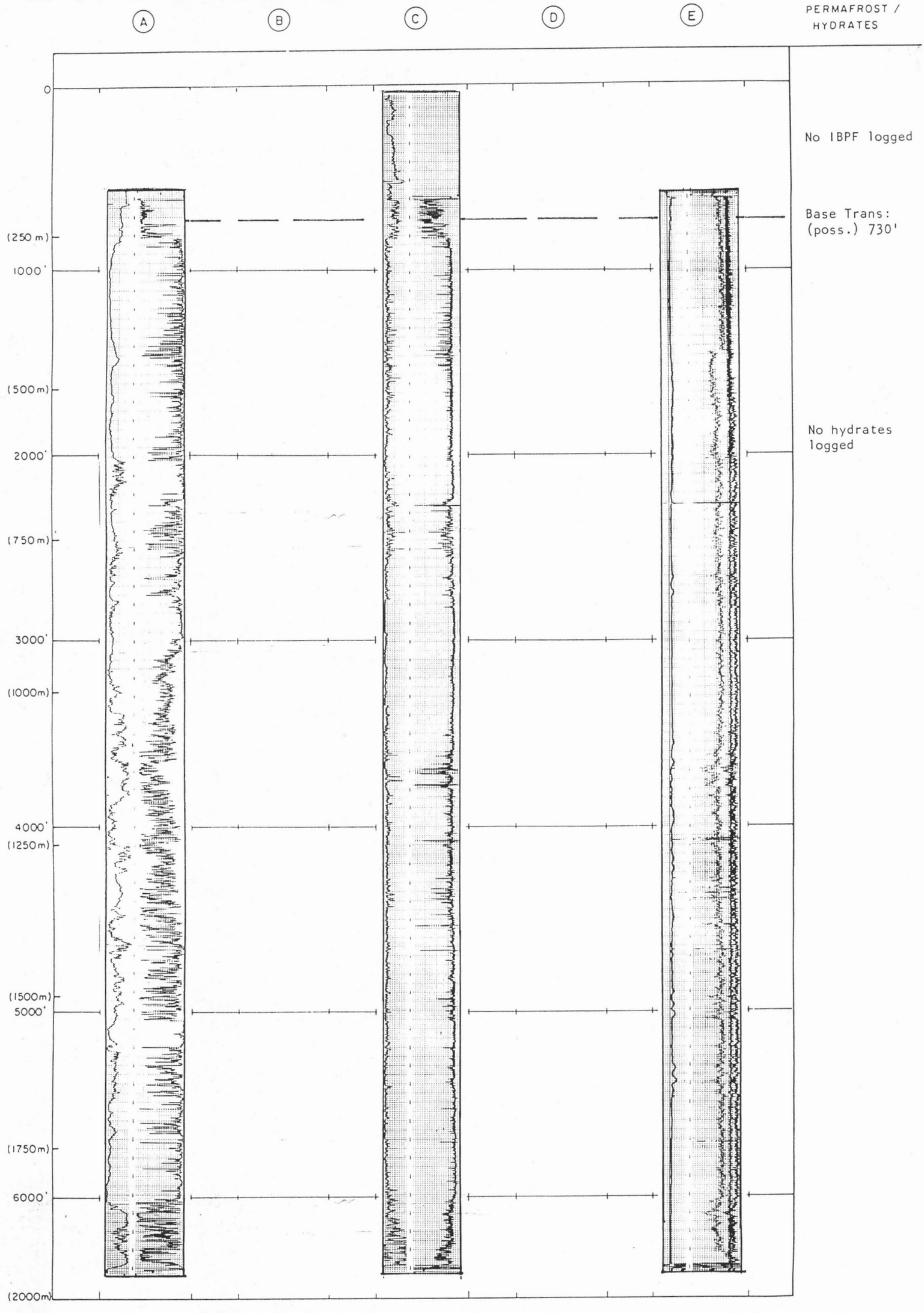
FIGURE 10



LOGS (LEFT TO RIGHT)

- (A) LL
- (B)
- (C) SRC
- (D)
- (E) FDEN

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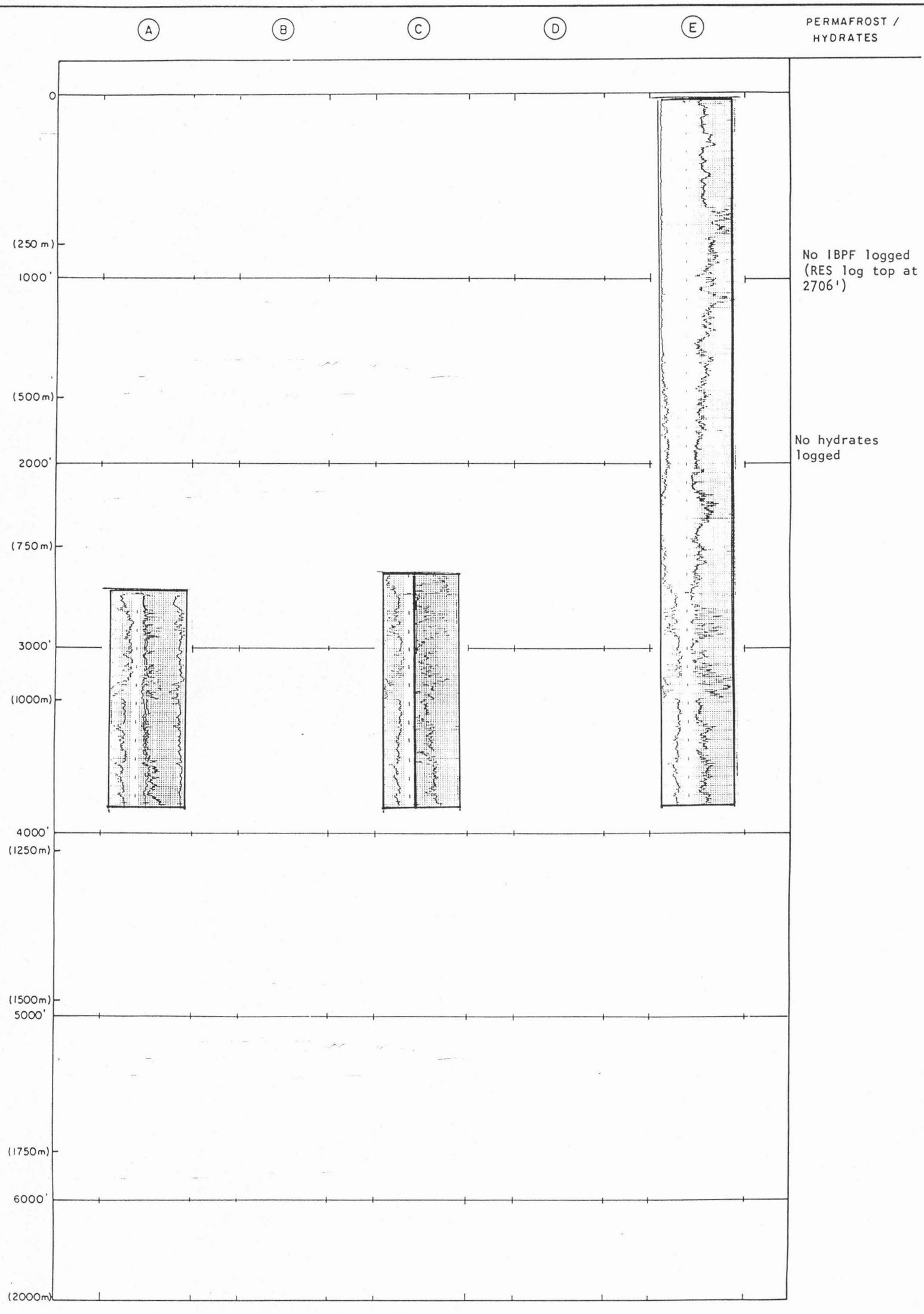
PERMAFROST / GAS HYDRATE STUDY
NORTHWEST TERRITORIES – YUKON
LITTLE CHICAGO N – 32

CGI0136

FIGURE 11



LOGS (LEFT TO RIGHT)

- (A) DILL
- (B)
- (C) AC GR
- (D)
- (E) GRC

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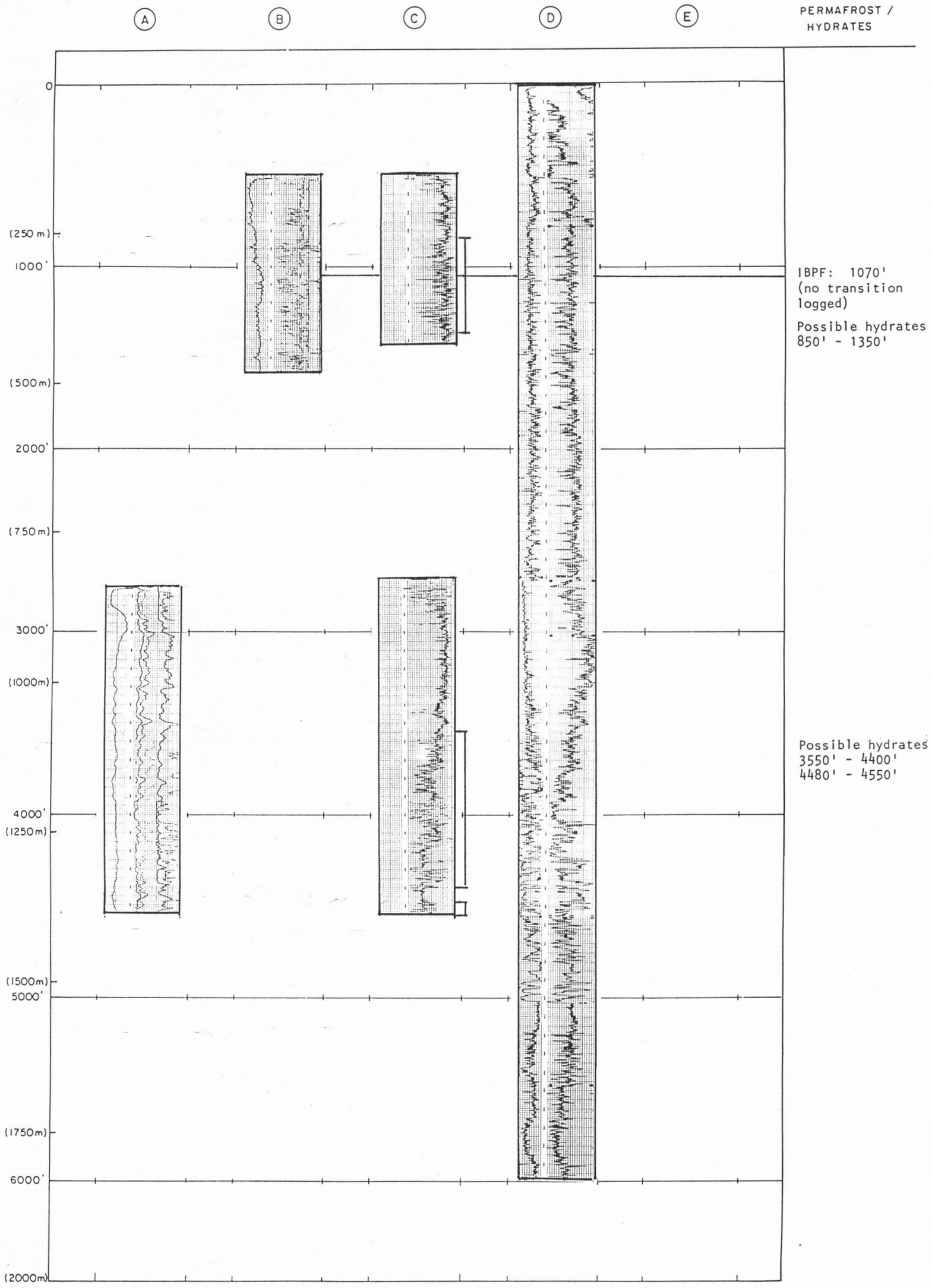
PERMAFROST / GAS HYDRATE STUDY
NORTHWEST TERRITORIES – YUKON
COLVILLE D-45

CGI0136

FIGURE 12



LOGS (LEFT TO RIGHT)

- (A) EL
- (B) IND E
- (C) SONIC
- (D) GRN
- (E)

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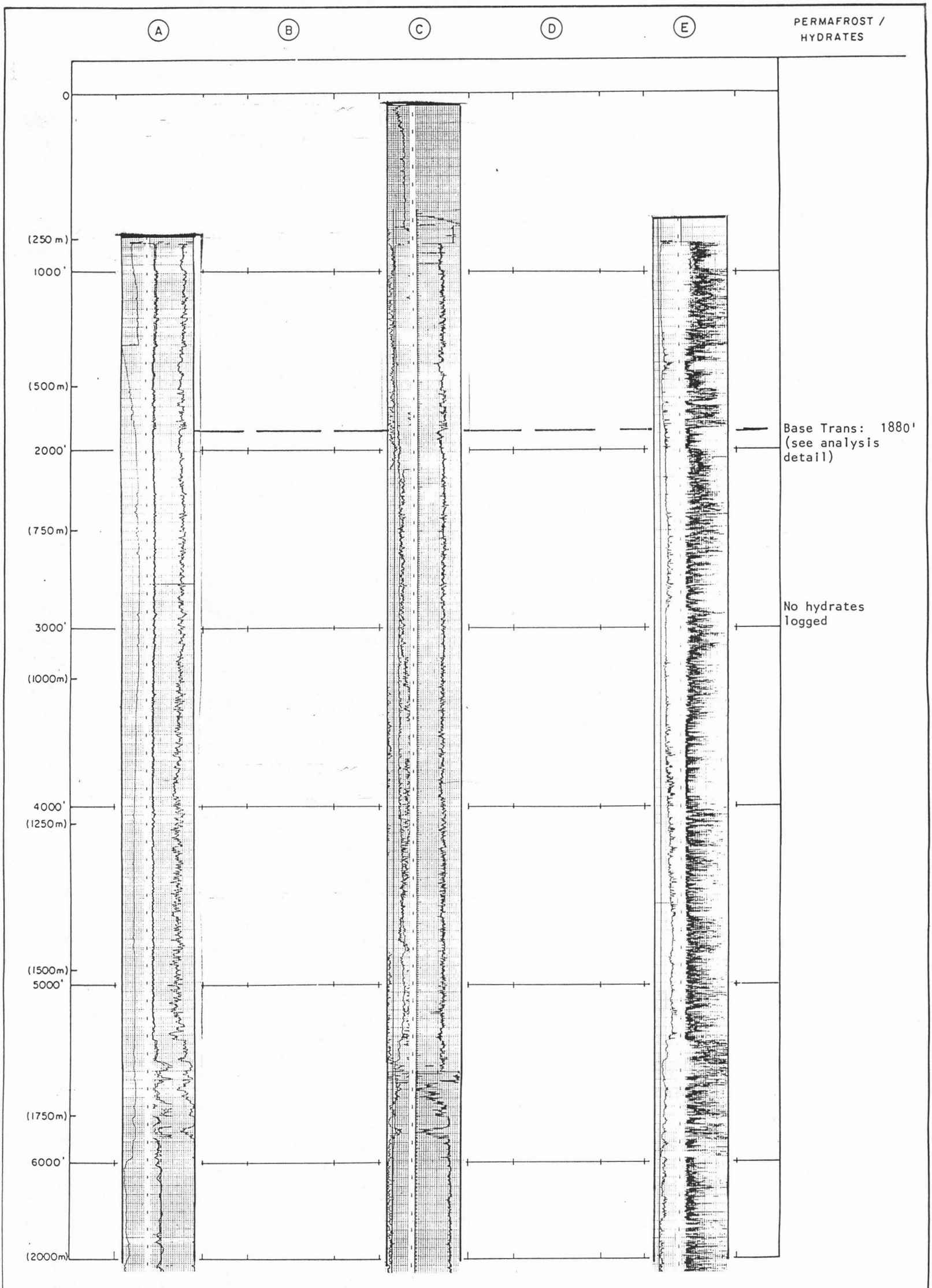
PERMAFROST / GAS HYDRATE STUDY
NORTHWEST TERRITORIES – YUKON
COLVILLE E-15

CGI0136

FIGURE 13



LOGS (LEFT TO RIGHT)

- (A) IND E
- (B)
- (C) BHCS
- (D)
- (E) ML-C

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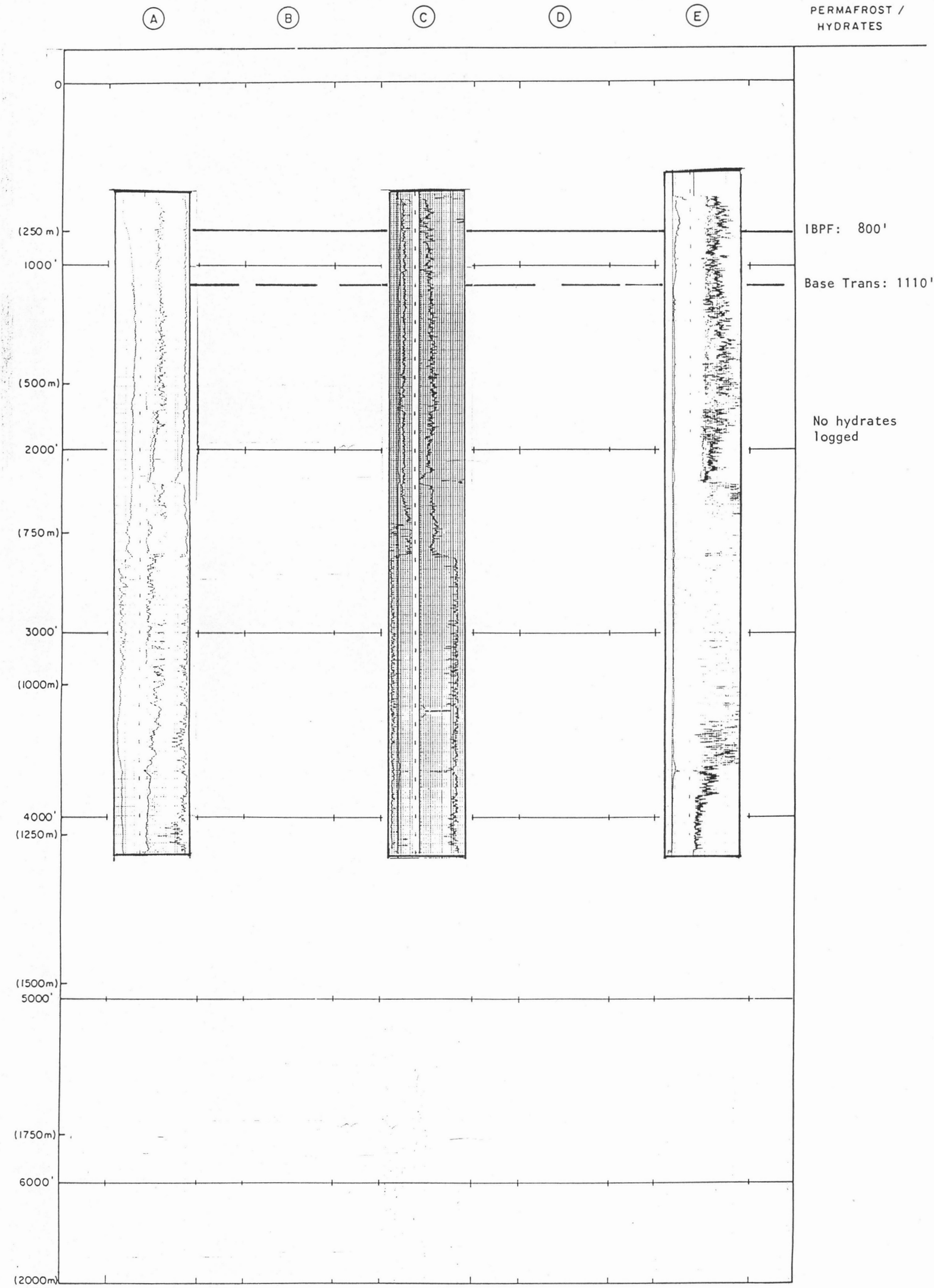
PERMAFROST / GAS HYDRATE STUDY
NORTHWEST TERRITORIES - YUKON
NEVEJO M5

CGI0136

FIGURE 14



LOGS (LEFT TO RIGHT)

- (A) IND E
- (B)
- (C) BHCS
- (D)
- (E) ML-C

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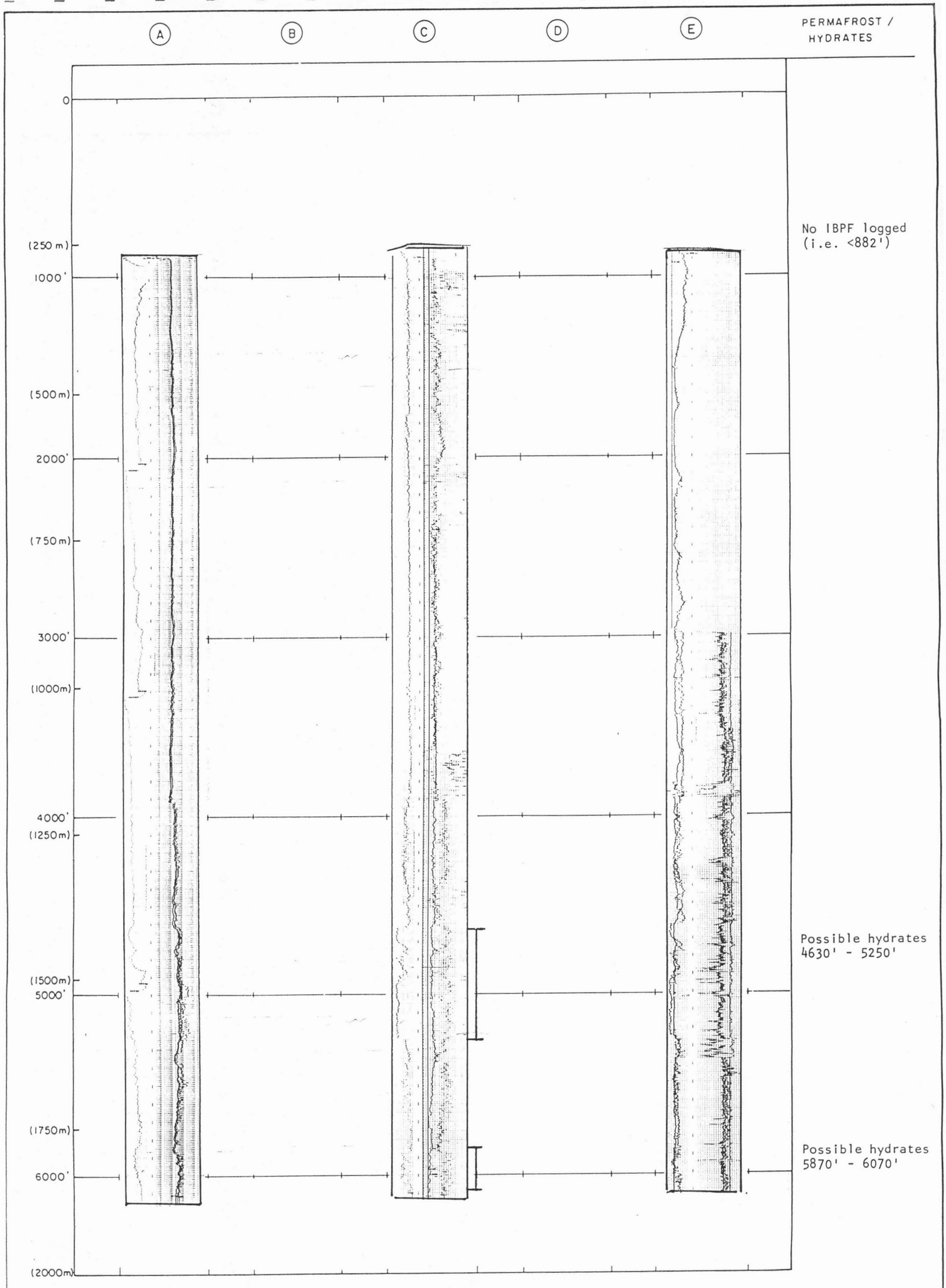
PERMAFROST / GAS HYDRATE STUDY
NORTHWEST TERRITORIES - YUKON
TREE RIVER H-38

CG10136

FIGURE 15



LOGS (LEFT TO RIGHT)

- (A) DIL
- (B)
- (C) AC GR
- (D)
- (E) F DEN

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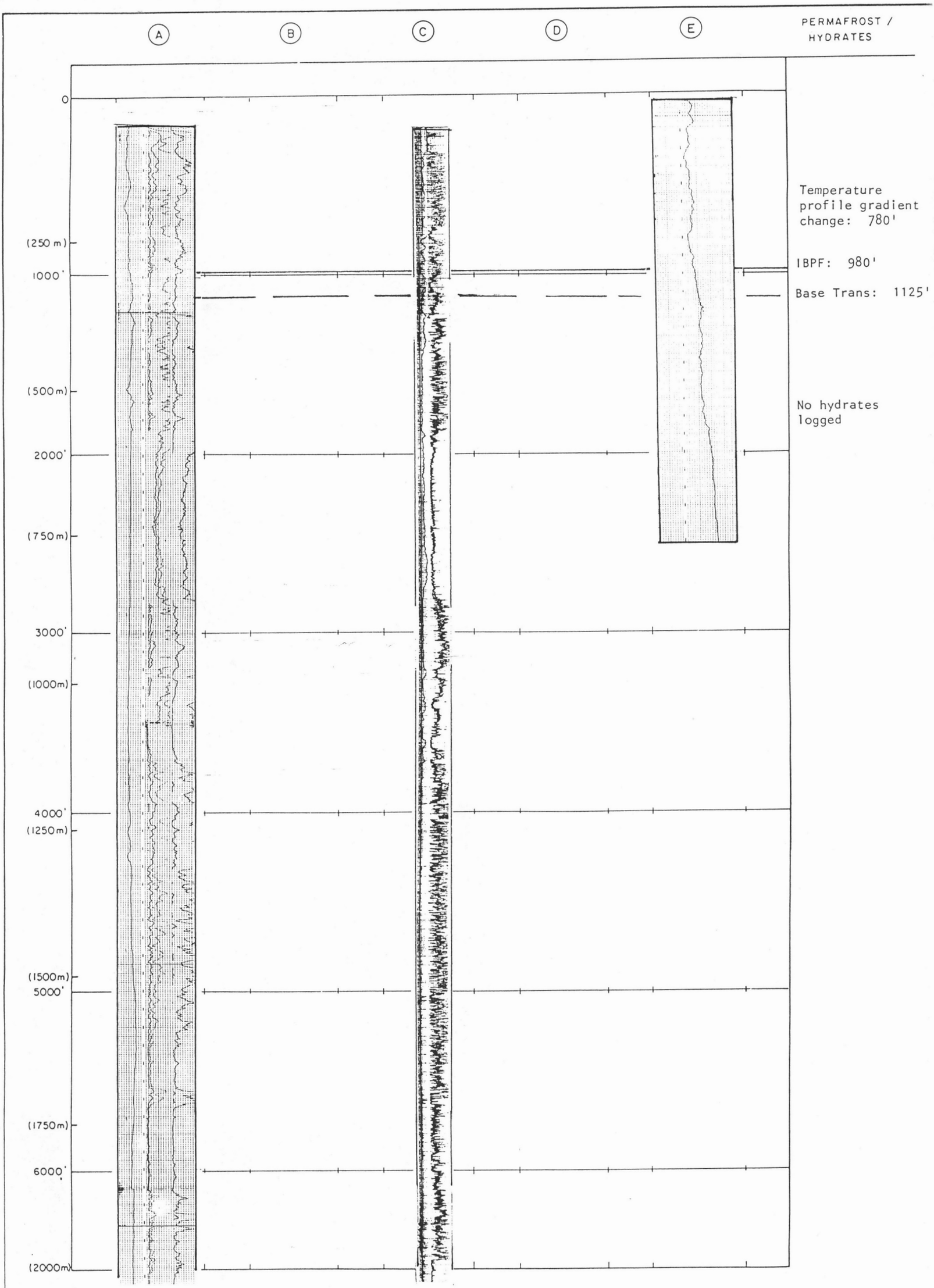
PERMAFROST / GAS HYDRATE STUDY
NORTHWEST TERRITORIES – YUKON
RIDGE Y.T. F-48

CGI0136

FIGURE 16



LOGS (LEFT TO RIGHT)

- (A) E-LOG
- (B)
- (C) MLC
- (D)
- (E) TEMP

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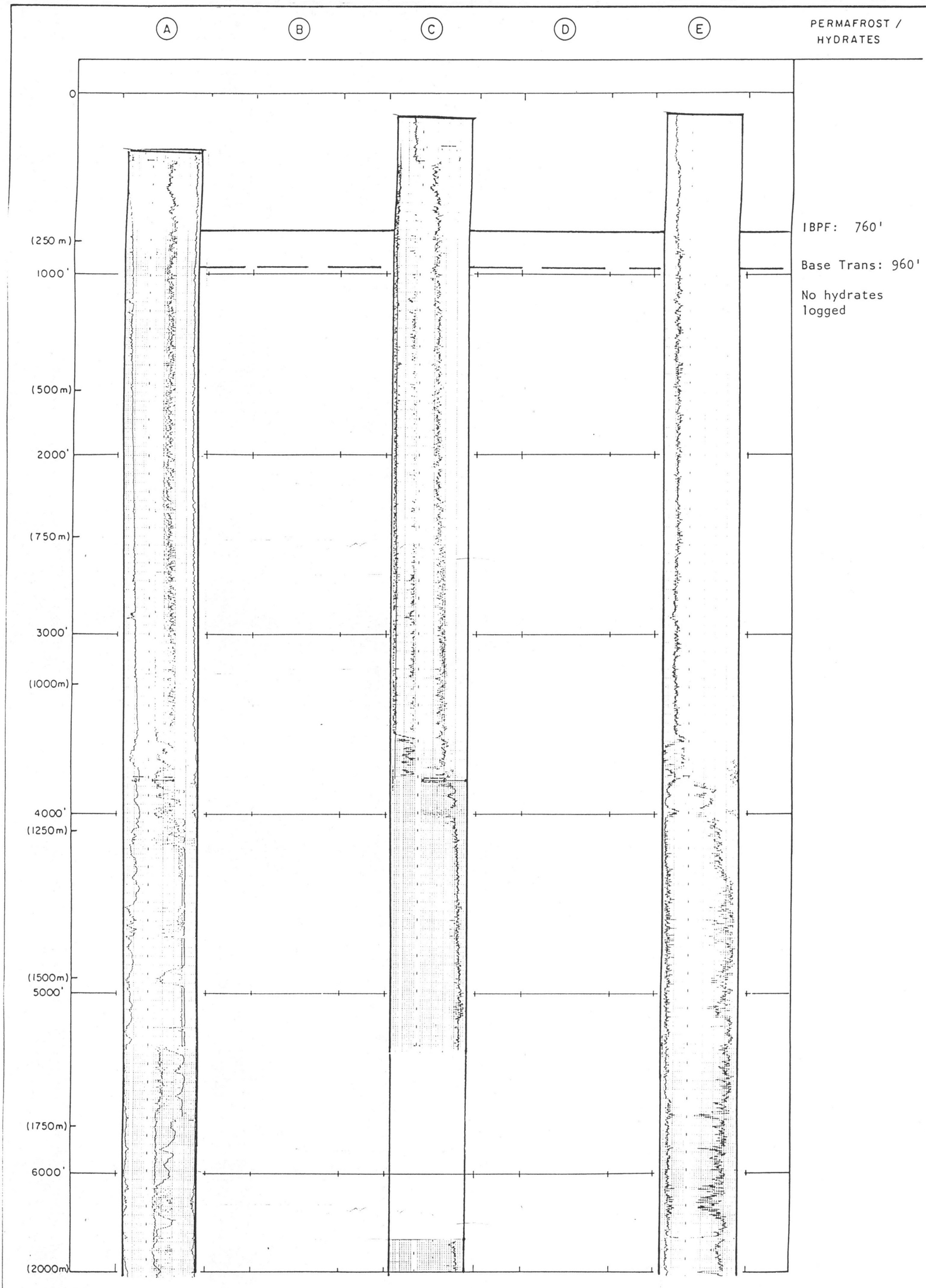
PERMAFROST / GAS HYDRATE STUDY
NORTHWEST TERRITORIES - YUKON
BELL RIVER Y.T. A-1

CGI0136

FIGURE 17



LOGS (LEFT TO RIGHT)

- (A) IND E
- (B)
- (C) BHCS
- (D)
- (E) GRN

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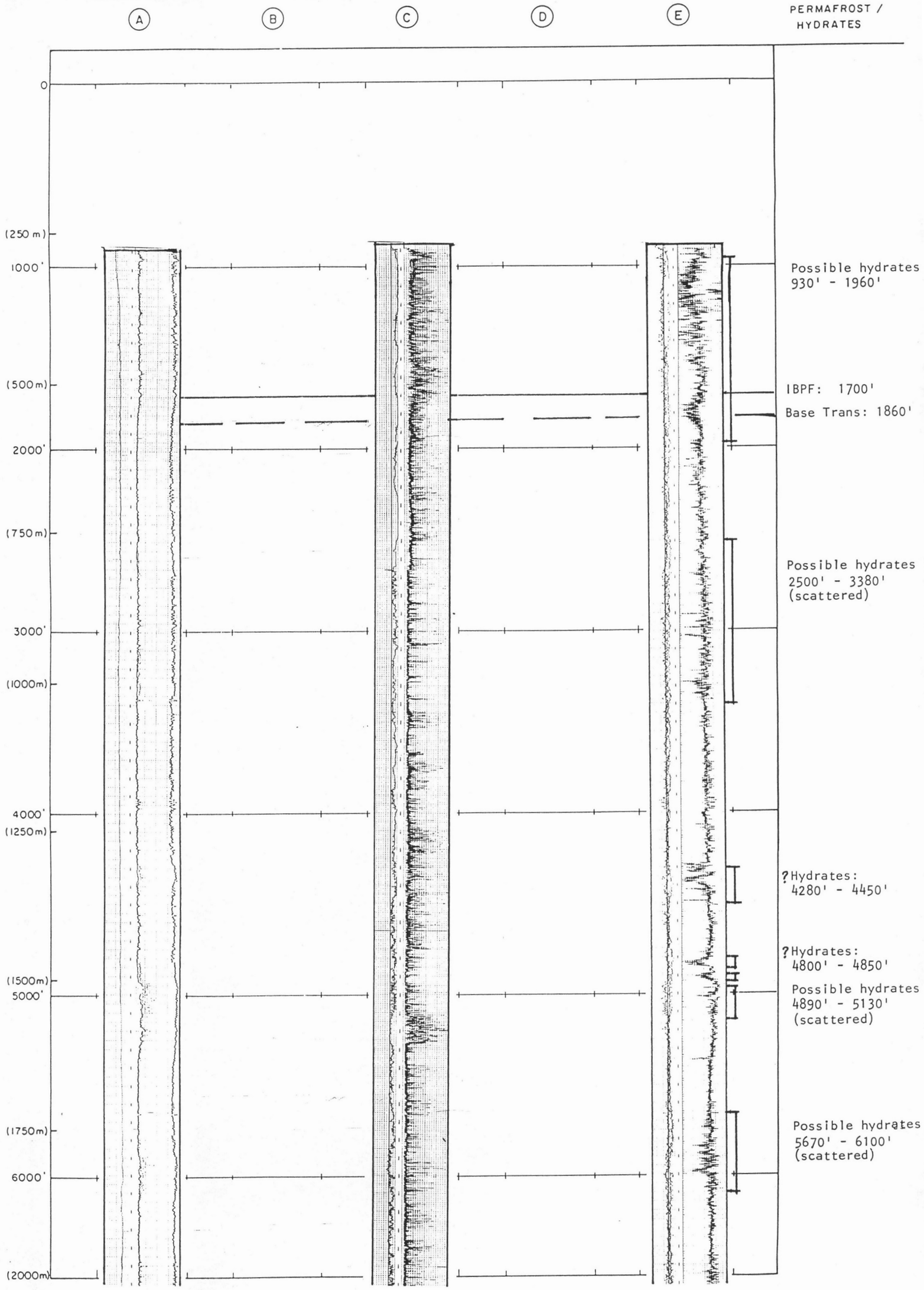
PERMAFROST / GAS HYDRATE STUDY
NORTHWEST TERRITORIES – YUKON
ATTOE LAKE I - 06

CGI0136

FIGURE 18



LOGS (LEFT TO RIGHT)

- (A) IND E
- (B)
- (C) ML-C
- (D)
- (E) BHCS

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PERMAFROST / GAS HYDRATE STUDY
NORTHWEST TERRITORIES – YUKON
STONY I-50

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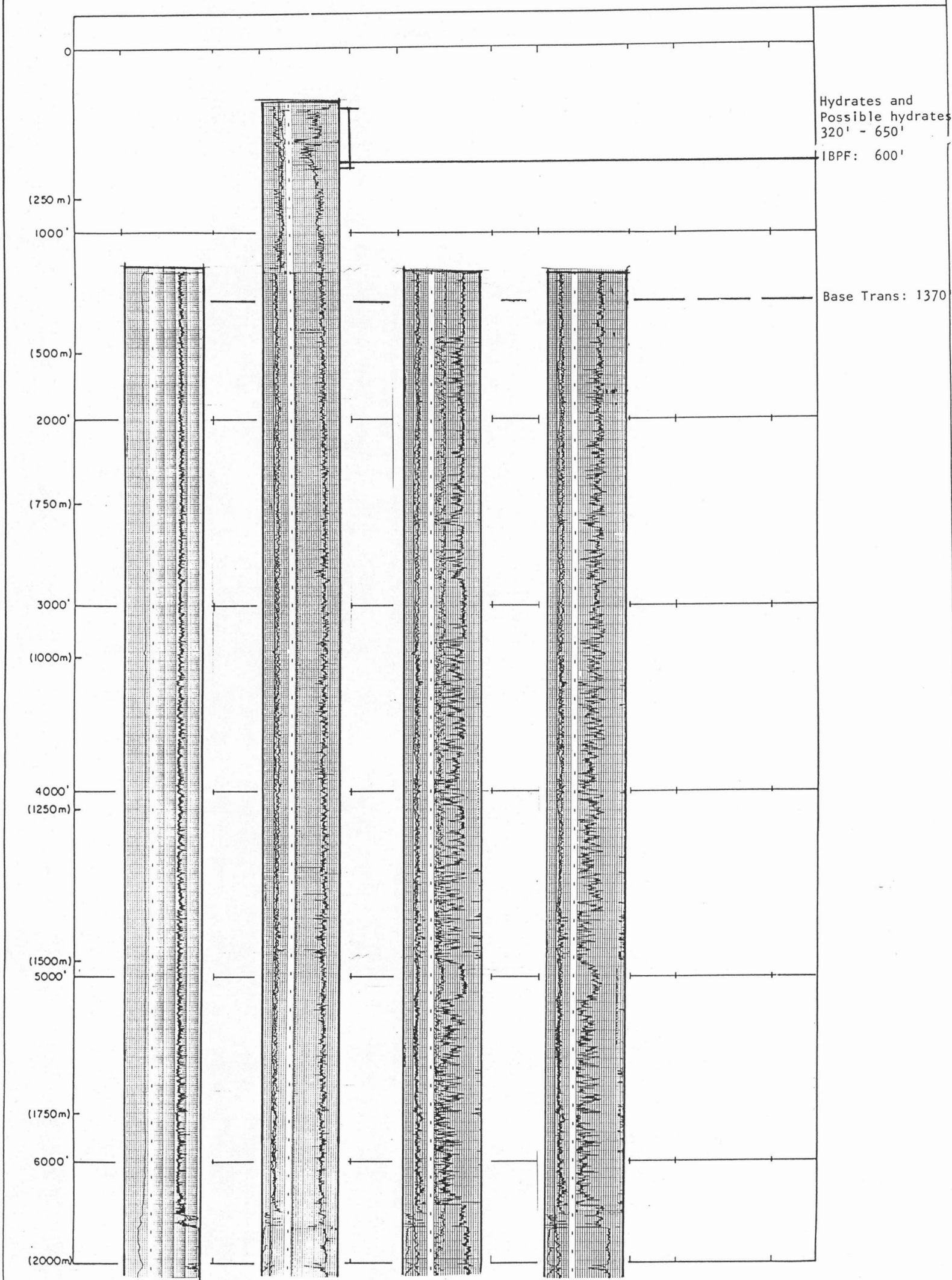
FIGURE 19



LOGS (LEFT TO RIGHT)

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

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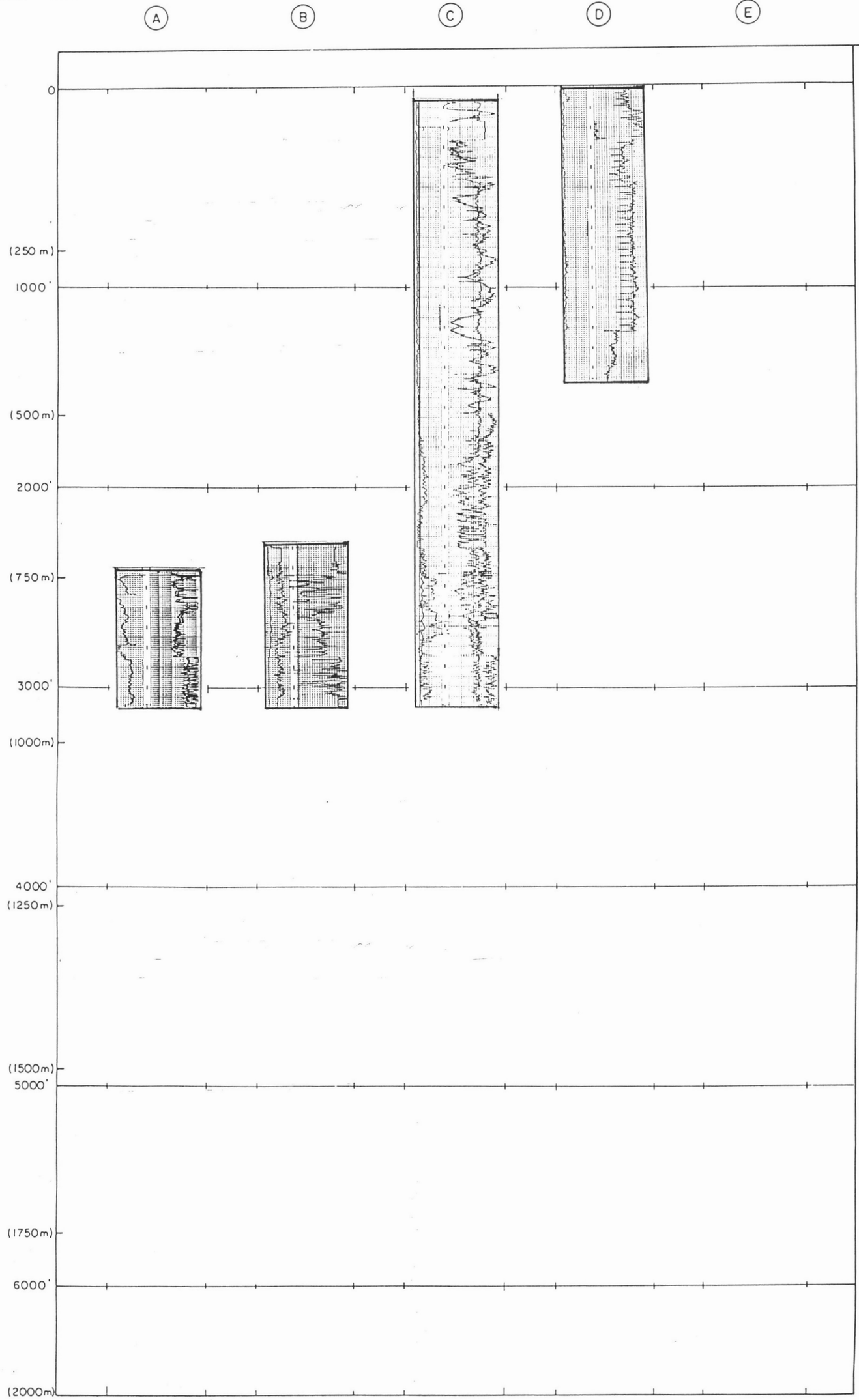
CONSULTING ENGINEERING & PROFESSIONAL SERVICES

PERMAFROST / GAS HYDRATE STUDY
NORTHWEST TERRITORIES - YUKON

FT. McPHERSON C-78

CG10136

FIGURE 20



LOGS (LEFT TO RIGHT)

- (A) DIL
- (B) BHCS
- (C) CNFD
- (D) GRN
- (E)

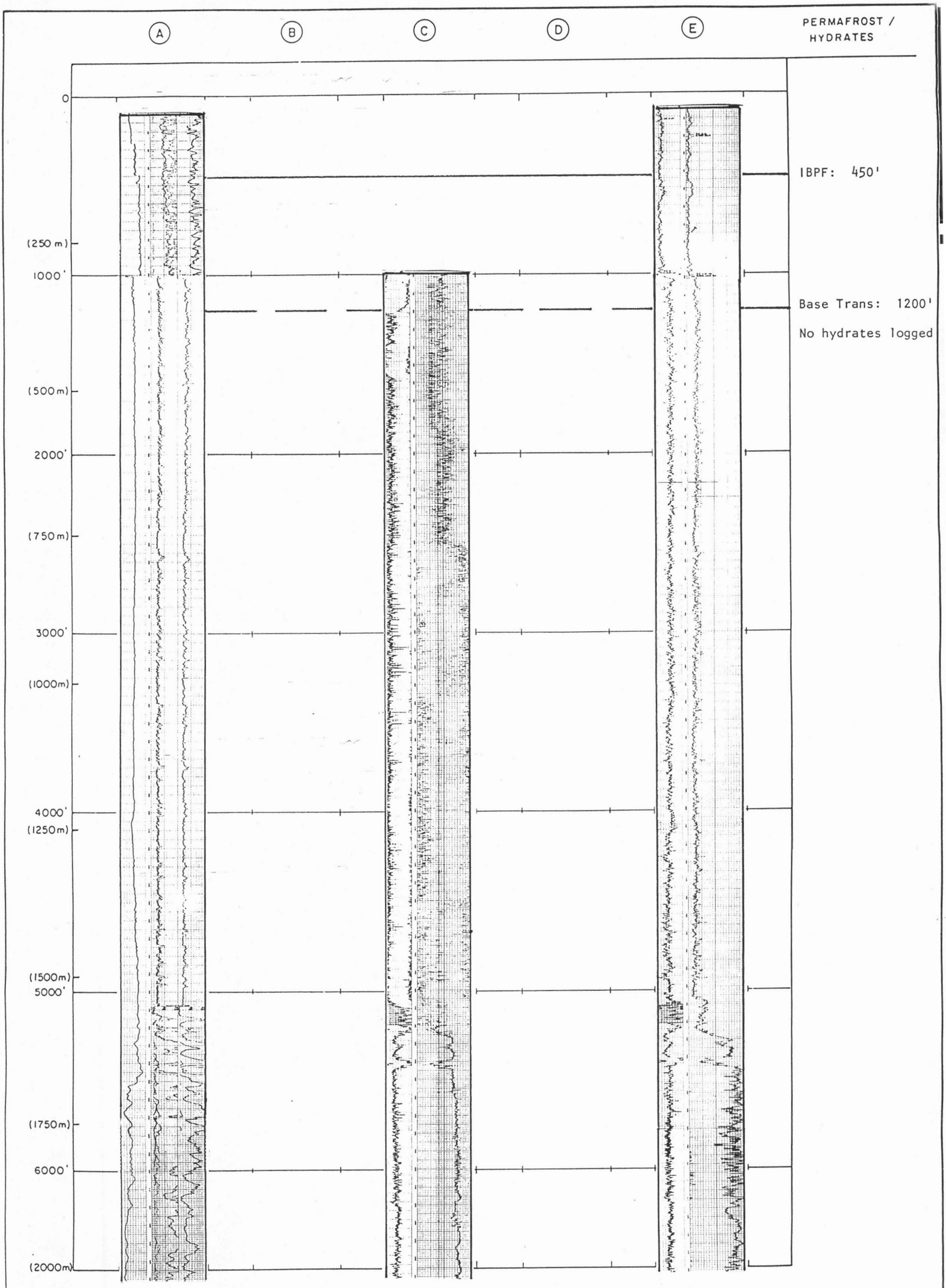
HARDY ASSOCIATES (1978) LTD.
CONSULTING ENGINEERING & PROFESSIONAL SERVICES

PERMAFROST / GAS HYDRATE STUDY
NORTHWEST TERRITORIES – YUKON

STOPOVER K-44

CGI0136

FIGURE 21



LOGS (LEFT TO RIGHT)

- (A) ELog
- (B)
- (C) ACOUST
- (D)
- (E) GRN

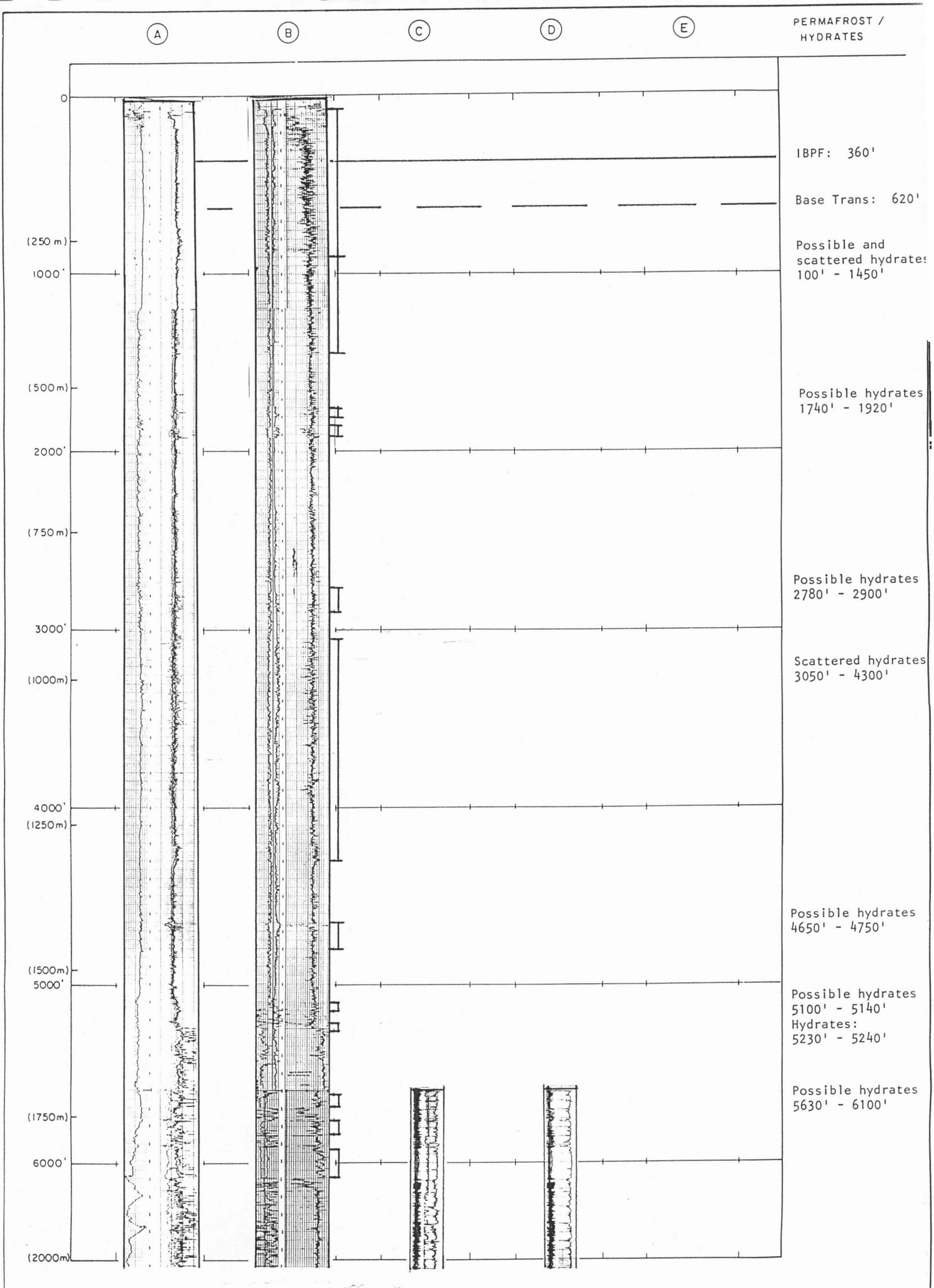
HARDY ASSOCIATES (1978) LTD.
CONSULTING ENGINEERING & PROFESSIONAL SERVICES

PERMAFROST / GAS HYDRATE STUDY
NORTHWEST TERRITORIES – YUKON

PT. SEPARATION No. 1
A-05

CGI0136

FIGURE 22



LOGS (LEFT TO RIGHT)

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

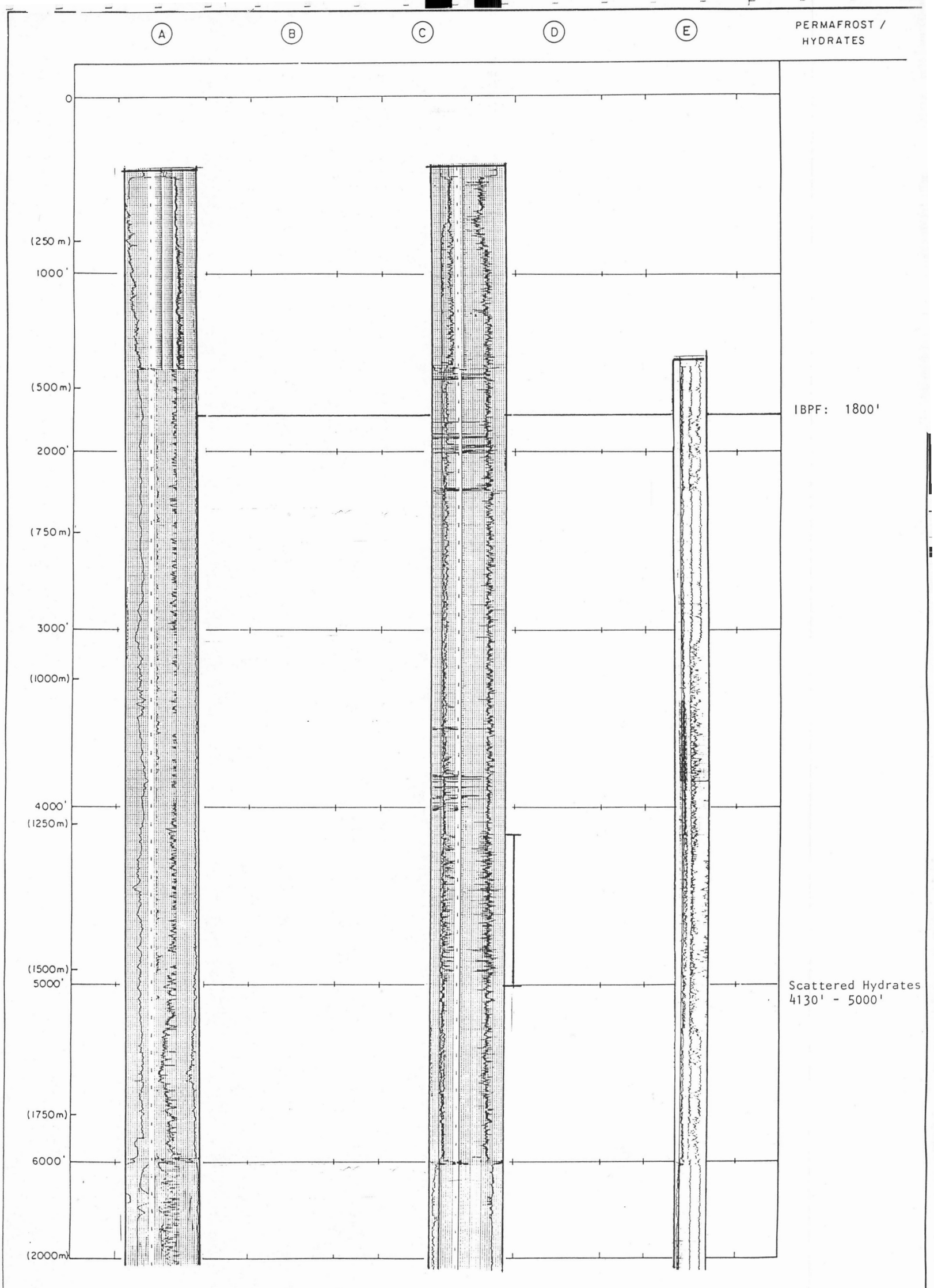
HARDY ASSOCIATES (1978) LTD.
CONSULTING ENGINEERING & PROFESSIONAL SERVICES

PERMAFROST / GAS HYDRATE STUDY
NORTHWEST TERRITORIES – YUKON

STONY G-06

CGI0136

FIGURE 23



LOGS (LEFT TO RIGHT)

(A) DILL

(B)

(C) BHCS

(D)

(E) CNFD GRC

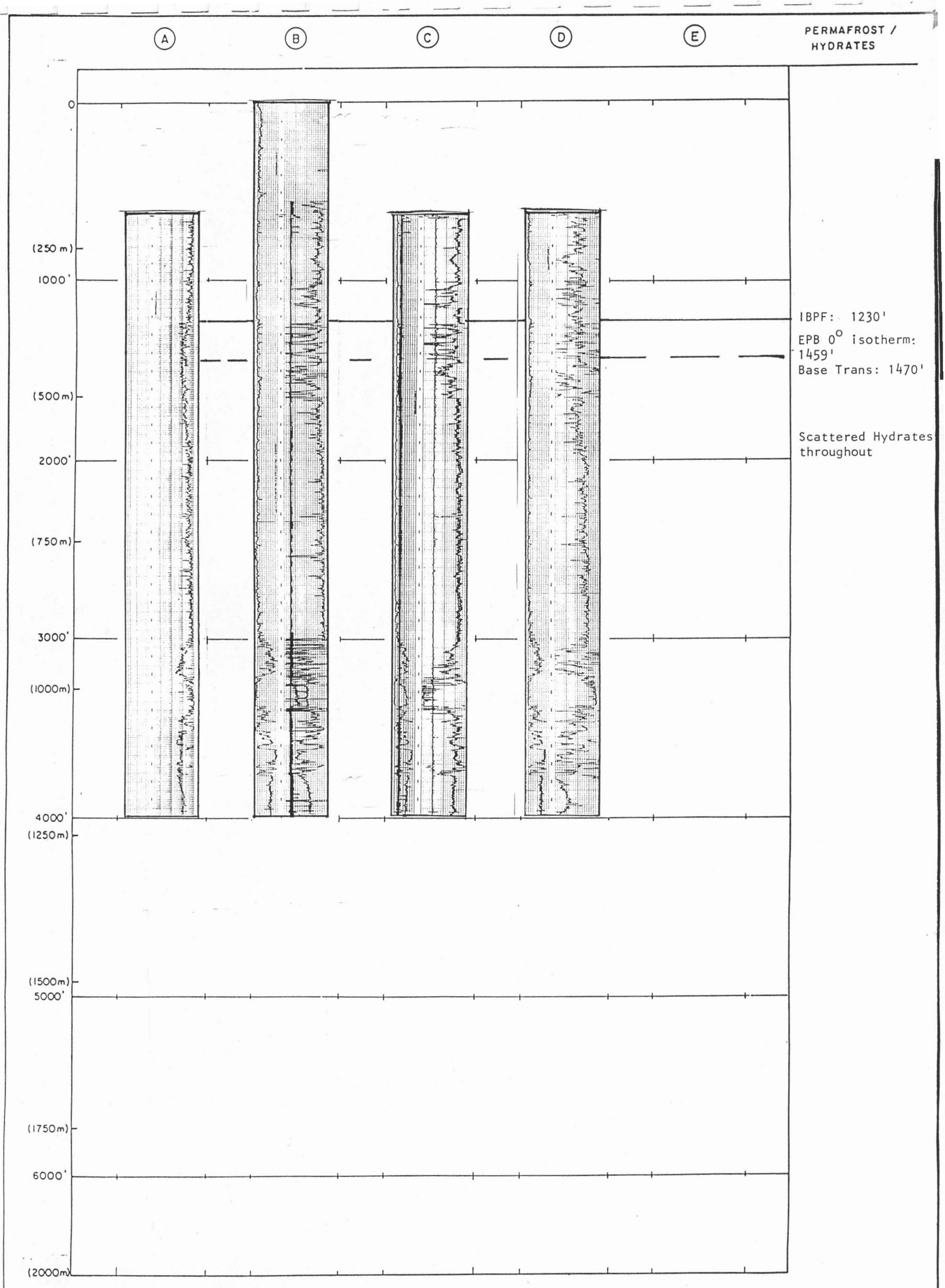
HARDY ASSOCIATES (1978) LTD.
CONSULTING ENGINEERING & PROFESSIONAL SERVICES

PERMAFROST / GAS HYDRATE STUDY
NORTHWEST TERRITORIES – YUKON

S. DELTA J – 80

CG10136

FIGURE 24



LOGS (LEFT TO RIGHT)

- (A) LL
- (B) ACGR
- (C) DENS
- (D) NEUT
- (E)

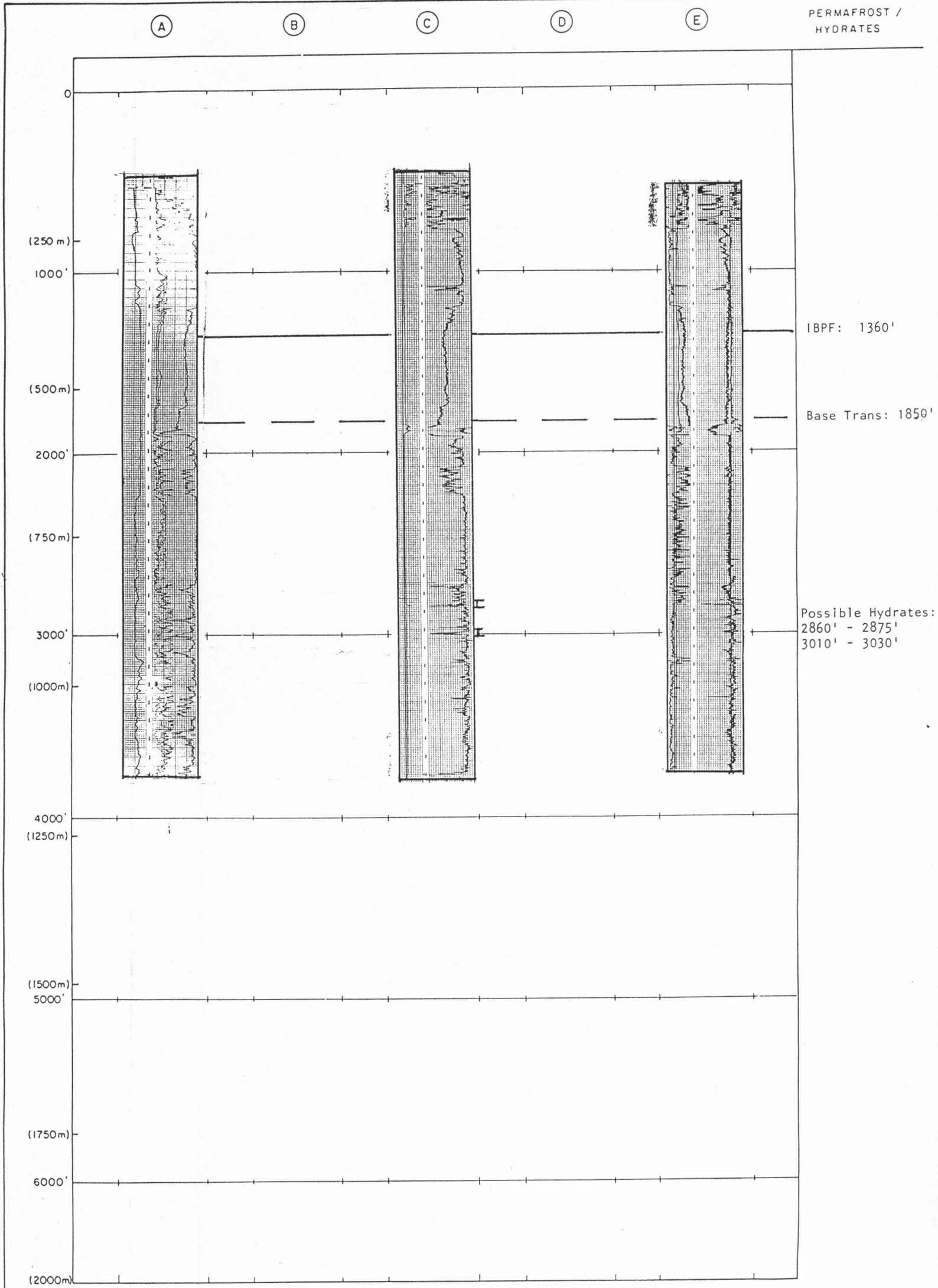
HARDY ASSOCIATES (1978) LTD.
CONSULTING ENGINEERING & PROFESSIONAL SERVICES

PERMAFROST / GAS HYDRATE STUDY
NORTHWEST TERRITORIES – YUKON

TEDJI LAKE K-24

CG10136

FIGURE 25



LOGS (LEFT TO RIGHT)

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

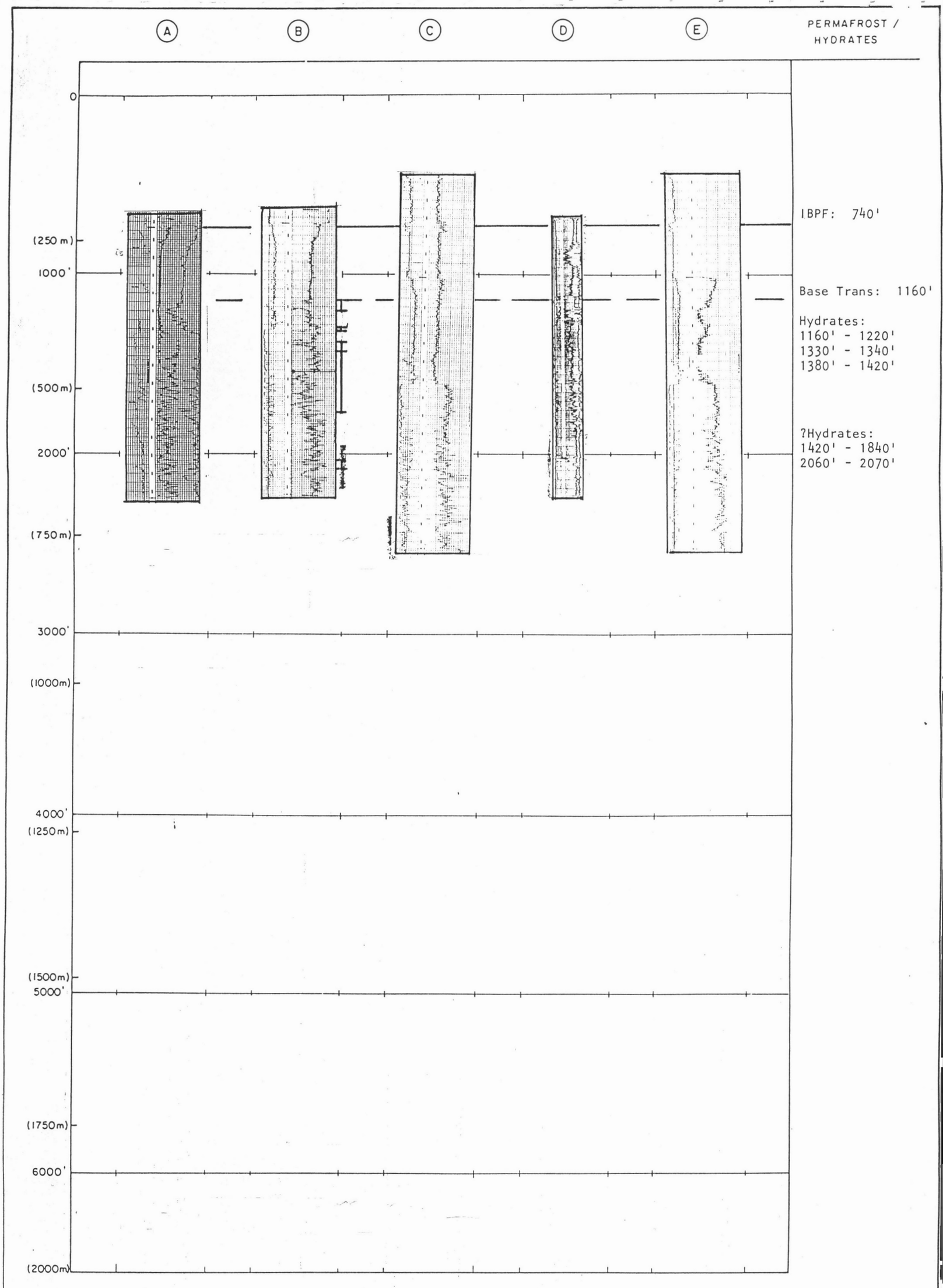
HARDY ASSOCIATES (1978) LTD.
CONSULTING ENGINEERING & PROFESSIONAL SERVICES

PERMAFROST / GAS HYDRATE STUDY
NORTHWEST TERRITORIES - YUKON

HUME RIVER A-53

CG10136

FIGURE 26



LOGS (LEFT TO RIGHT)

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

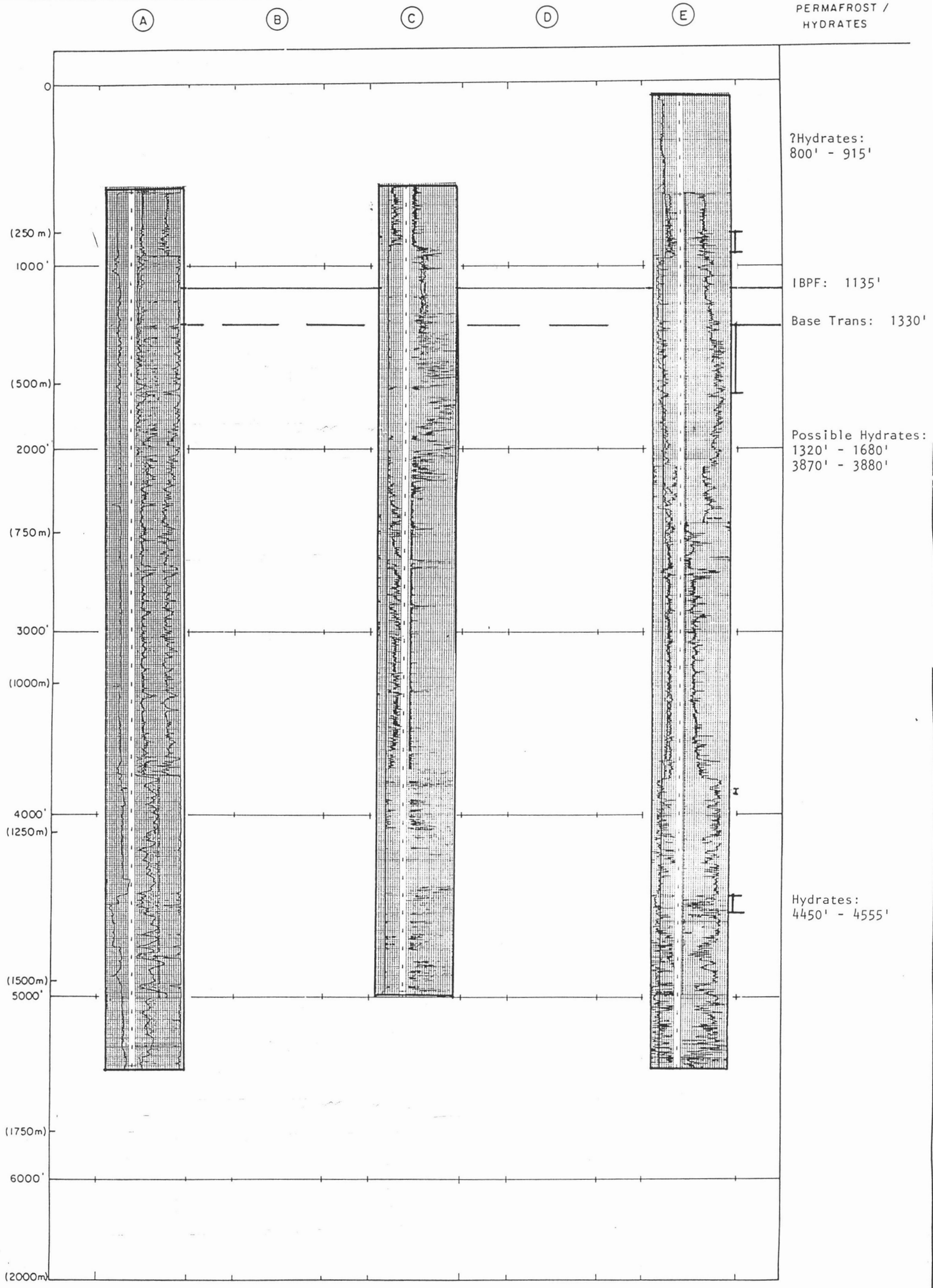
HARDY ASSOCIATES (1978) LTD.
CONSULTING ENGINEERING & PROFESSIONAL SERVICES

PERMAFROST / GAS HYDRATE STUDY
NORTHWEST TERRITORIES – YUKON

BIRCH Y.T. E-53

CGI0136

FIGURE 27



LOGS (LEFT TO RIGHT)

- (A) IND E
- (B)
- (C) ML-C
- (D)
- (E) BHCS

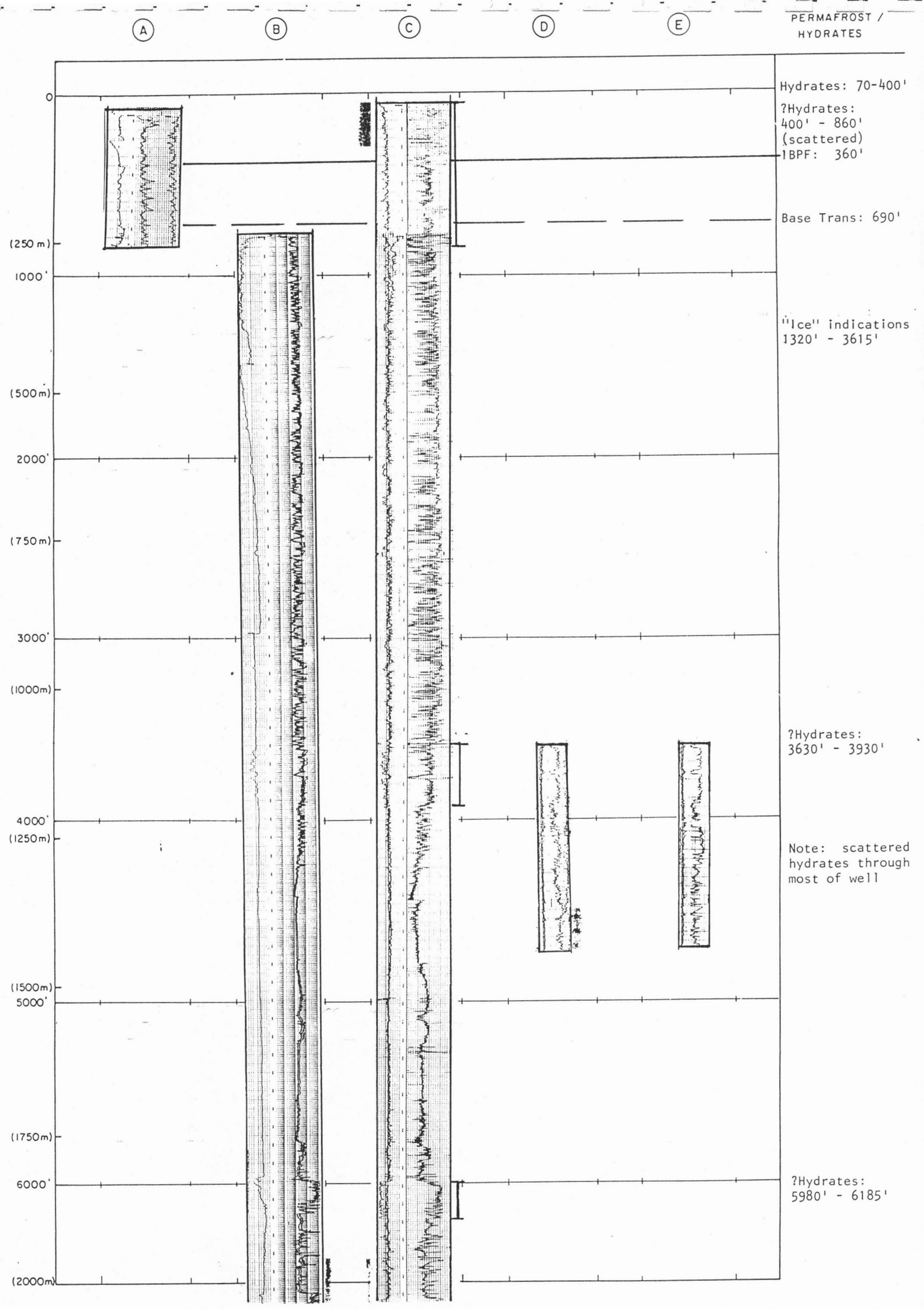
HARDY ASSOCIATES (1978) LTD.
CONSULTING ENGINEERING & PROFESSIONAL SERVICES

PERMAFROST / GAS HYDRATE STUDY
NORTHWEST TERRITORIES – YUKON

BIRCH Y.T. B-34

CG10136

FIGURE 28



LOGS (LEFT TO RIGHT)

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

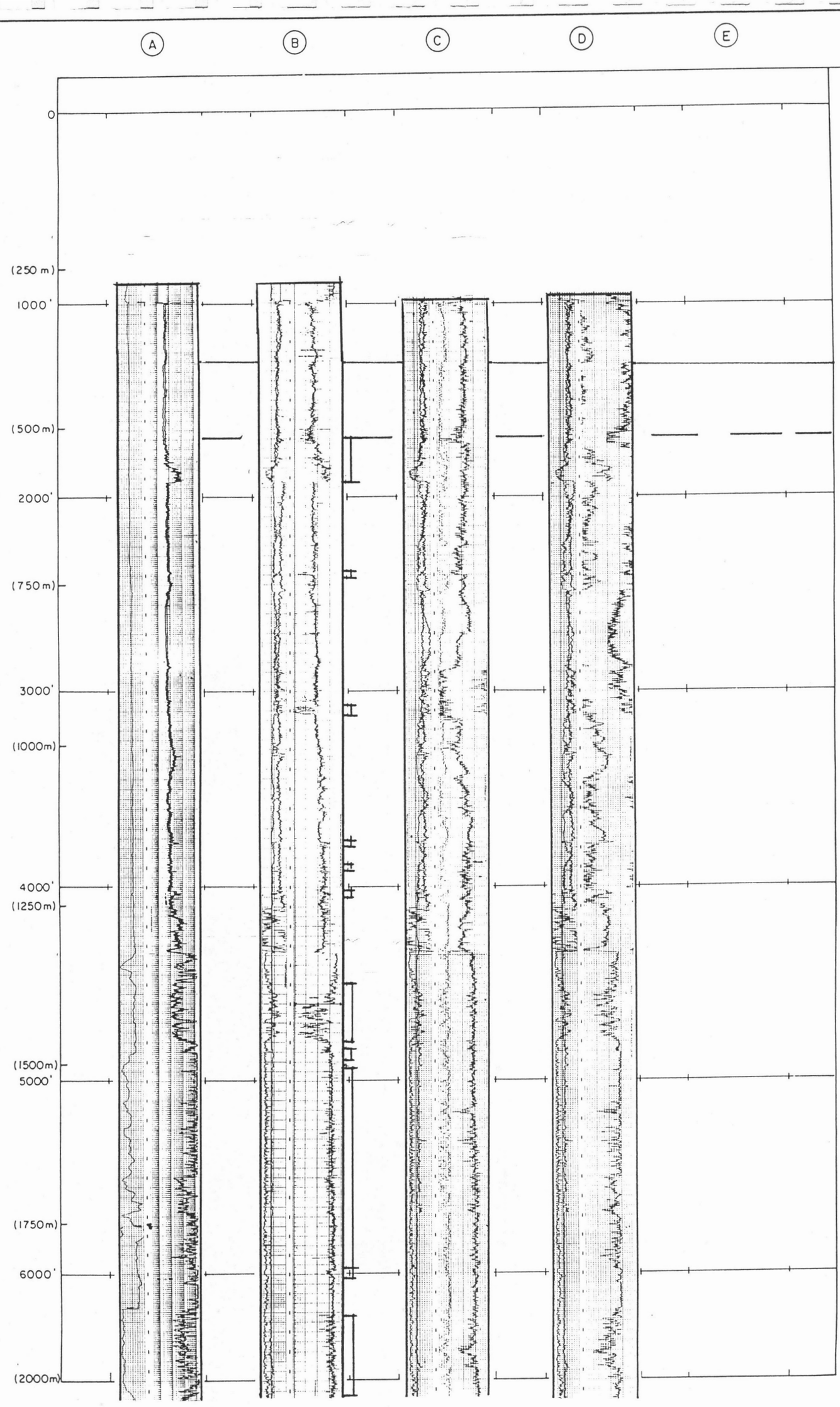
HARDY ASSOCIATES (1978) LTD.
CONSULTING ENGINEERING & PROFESSIONAL SERVICES

PERMAFROST / GAS HYDRATE STUDY
NORTHWEST TERRITORIES – YUKON

E. PORCUPINE I-13

CGI0136

FIGURE 29



LOGS (LEFT TO RIGHT)

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

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

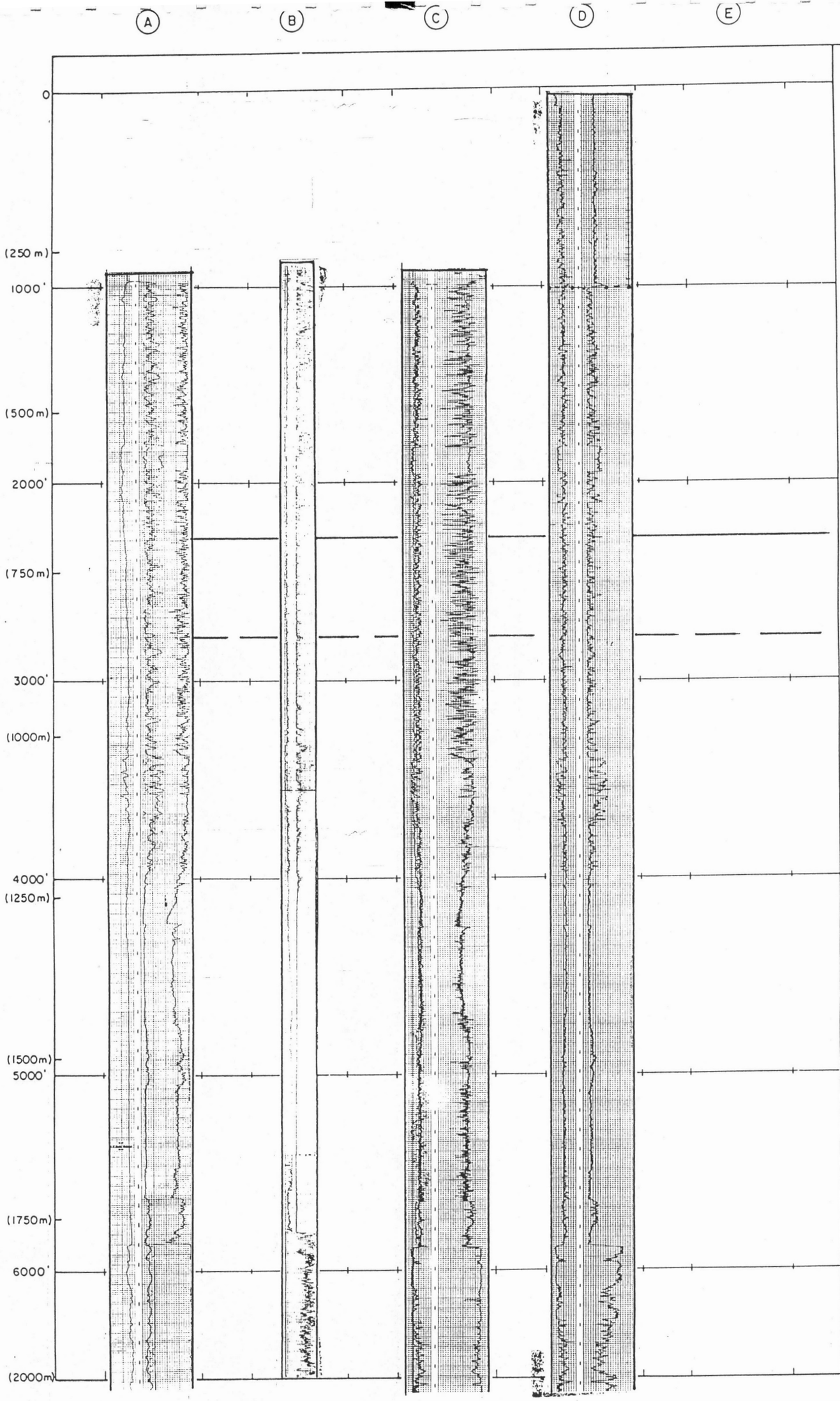
PERMAFROST / GAS HYDRATE STUDY
NORTHWEST TERRITORIES – YUKON

WELDON CREEK O-65

CGI0136

FIGURE 30

PERMAFROST / HYDRATES



LOGS (LEFT TO RIGHT)

- (A) IND E
- (B) ML-C
- (C) S-GR-C
- (D) GRN
- (E)

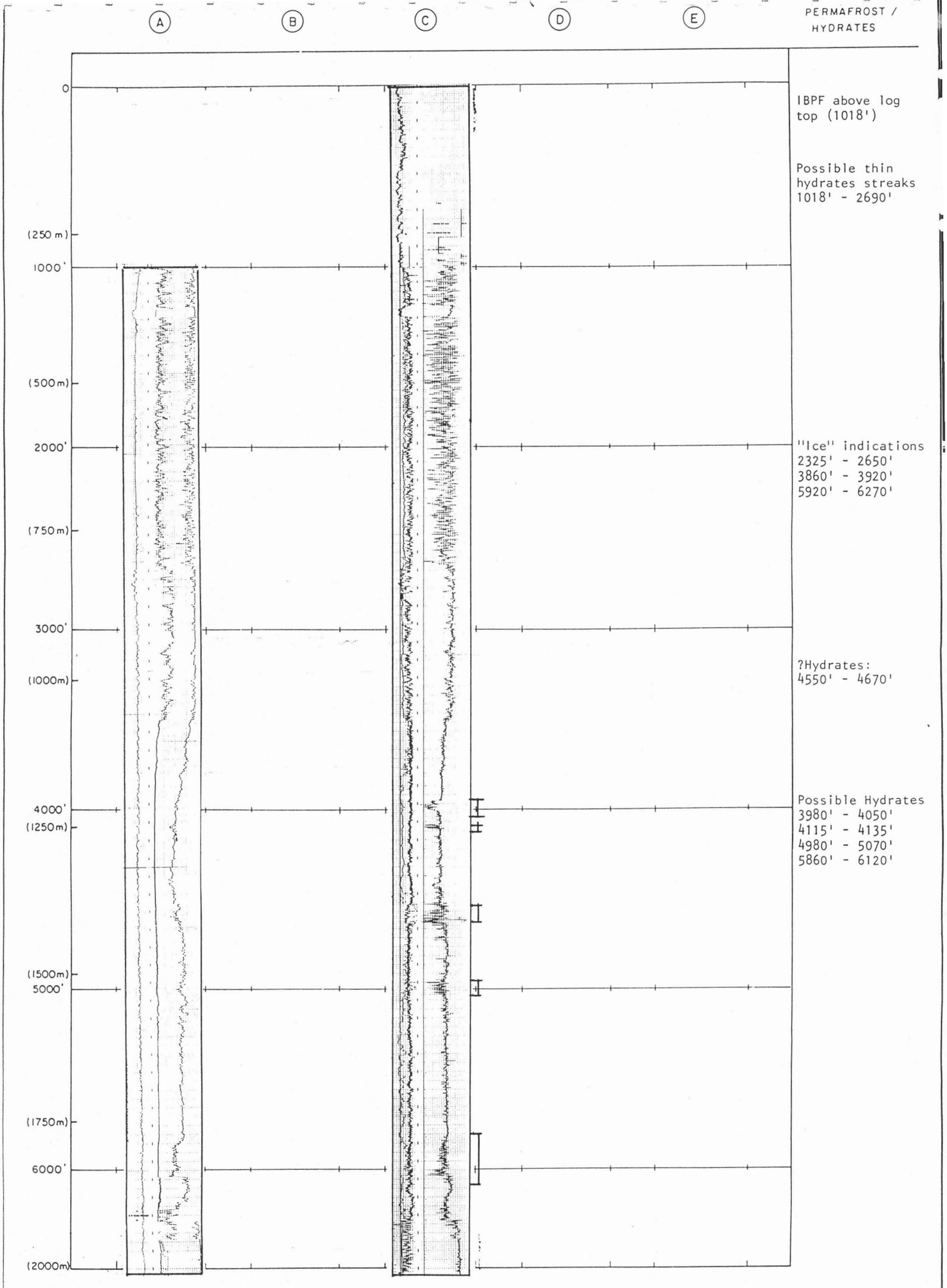
HARDY ASSOCIATES (1978) LTD.
CONSULTING ENGINEERING & PROFESSIONAL SERVICES

PERMAFROST / GAS HYDRATE STUDY
NORTHWEST TERRITORIES - YUKON

PORCUPINE R. Y.T. K - 56

CGI0136

FIGURE 31



LOG'S (LEFT TO RIGHT)

- (A) IND E
- (B)
- (C) S-GR-C
- (D)
- (E)

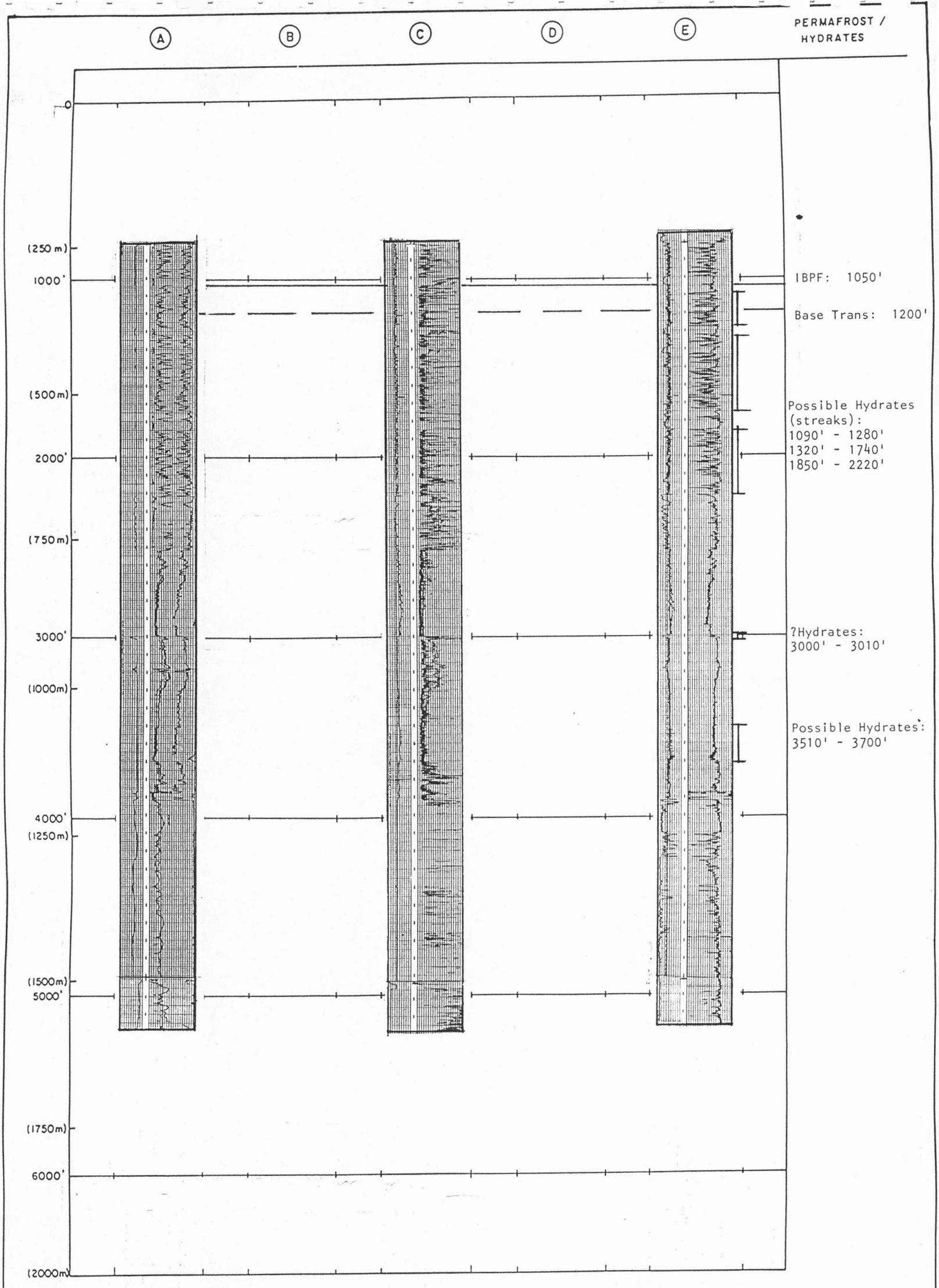
HARDY ASSOCIATES (1978) LTD.
CONSULTING ENGINEERING & PROFESSIONAL SERVICES

PERMAFROST / GAS HYDRATE STUDY
NORTHWEST TERRITORIES - YUKON

WHITESTONE Y.T. N-26

CGI0136

FIGURE 32



LOGS (LEFT TO RIGHT)

- (A) IND E
- (B)
- (C) ML-C
- (D)
- (E) BHCS

HARDY ASSOCIATES (1978) LTD.
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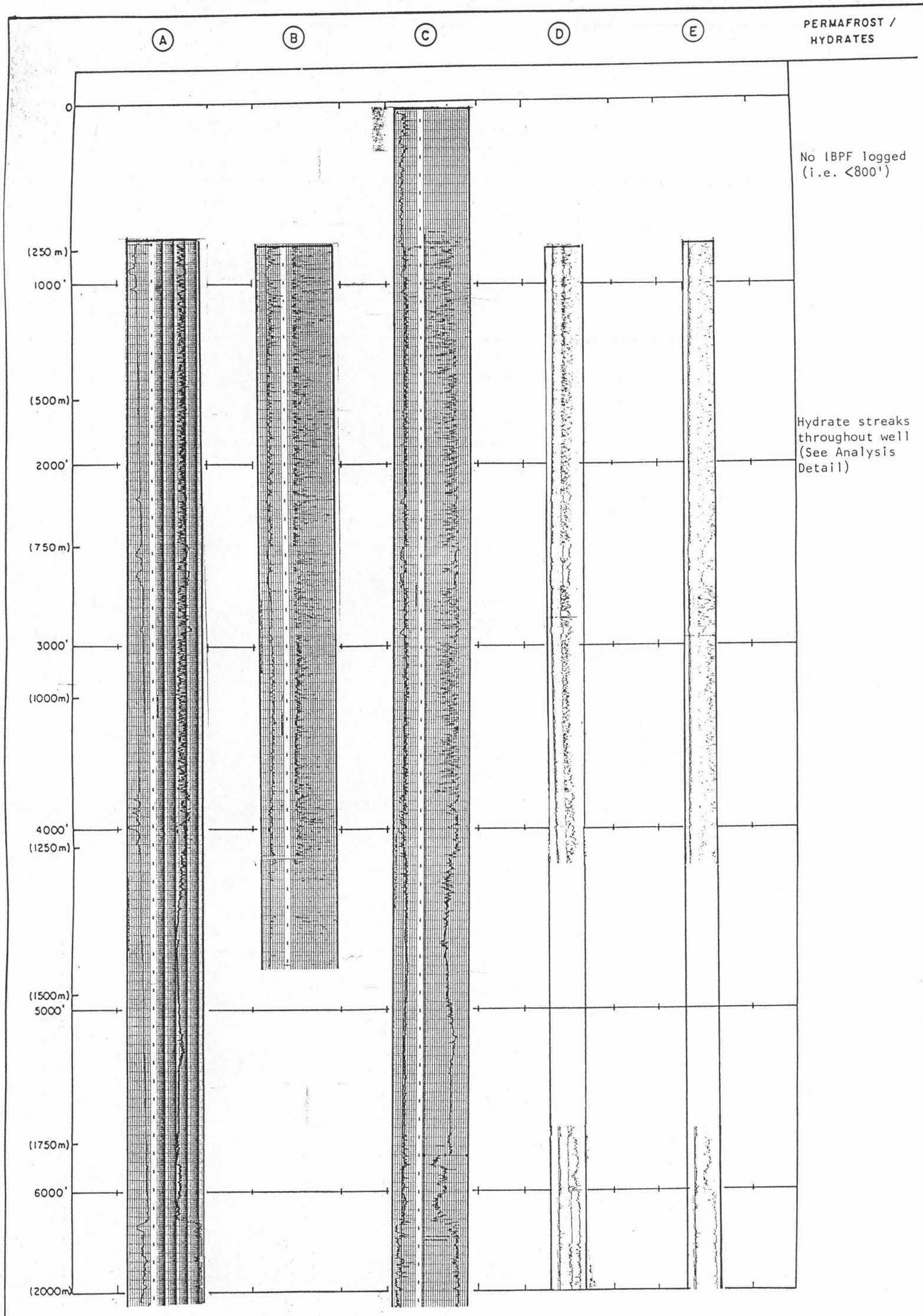
PERMAFROST / GAS HYDRATE STUDY
NORTHWEST TERRITORIES – YUKON

CHANCE Y.T. G-08

CGI0136

FIGURE 32A



LOGS (LEFT TO RIGHT)

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

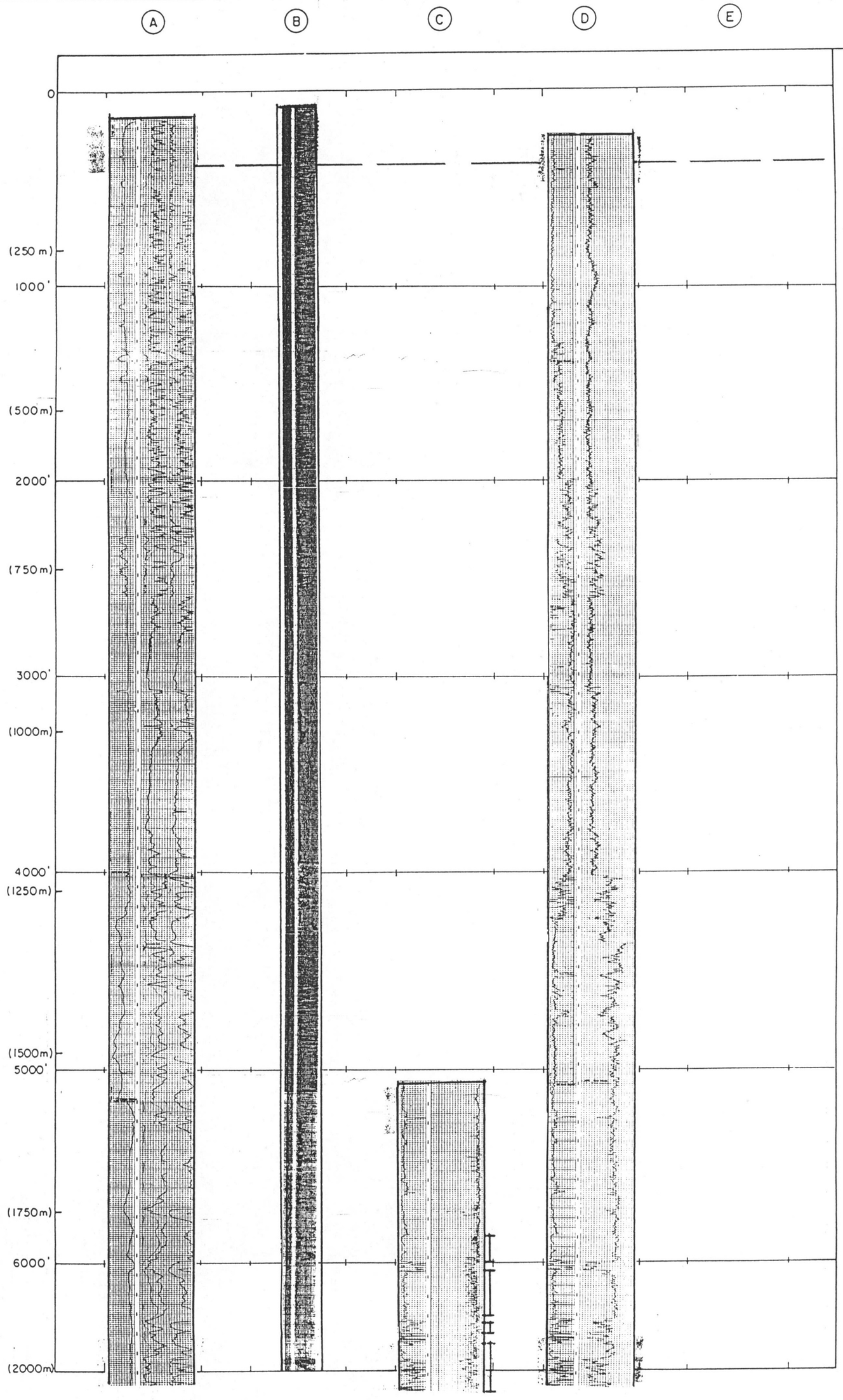
HARDY ASSOCIATES (1978) LTD.
CONSULTING ENGINEERING & PROFESSIONAL SERVICES

PERMAFROST / GAS HYDRATE STUDY
NORTHWEST TERRITORIES – YUKON

E. PORCUPINE Y.T. F-18

CG10136

FIGURE 33



LOGS (LEFT TO RIGHT)

- (A) E LOG
- (B) M LL
- (C) SONIC
- (D) GRN
- (E)

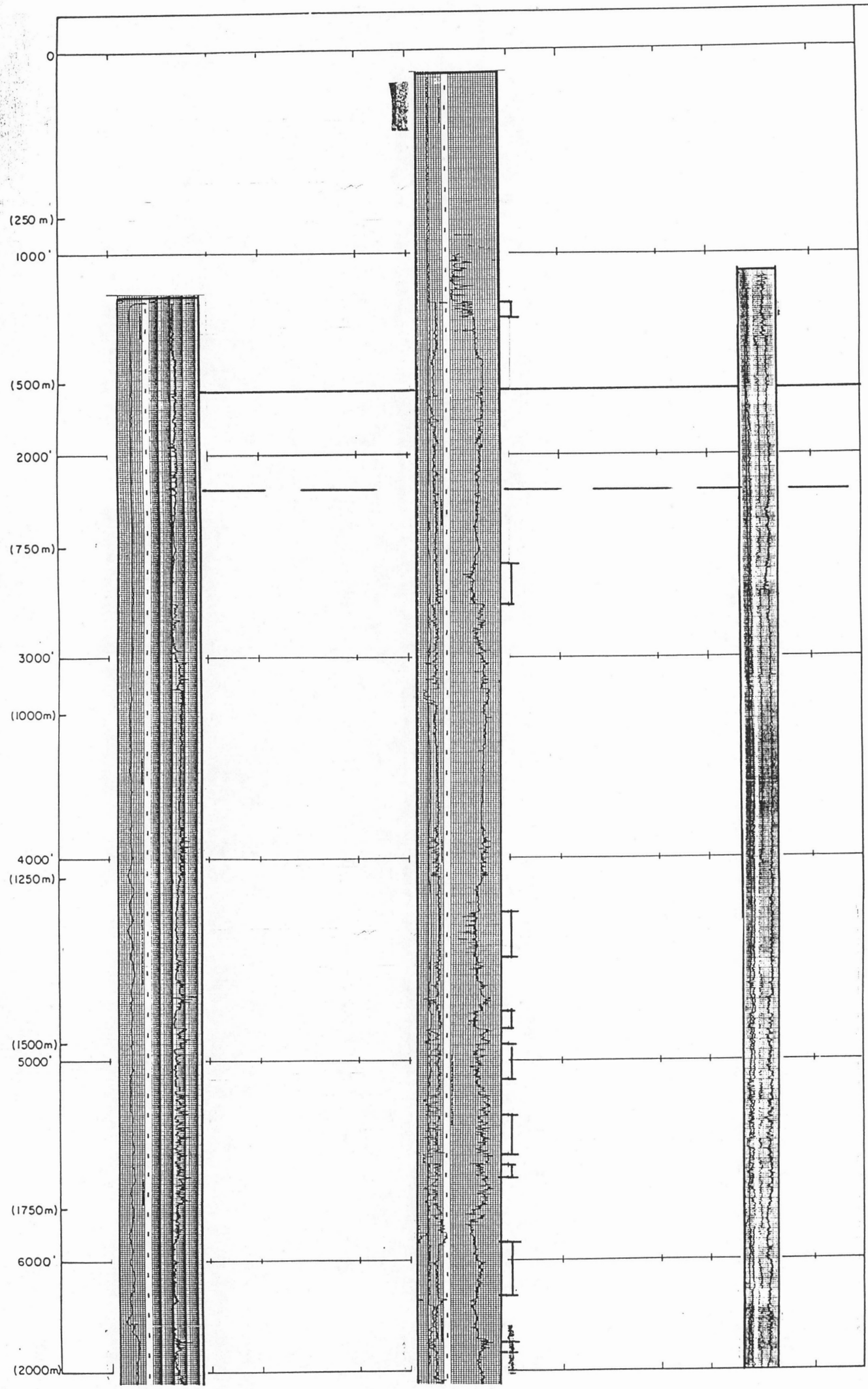
HARDY ASSOCIATES (1978) LTD.
CONSULTING ENGINEERING & PROFESSIONAL SERVICES

PERMAFROST / GAS HYDRATE STUDY
NORTHWEST TERRITORIES – YUKON

CHANCE Y.T. No. 1

CG10136

FIGURE 33A



LOGS (LEFT TO RIGHT)

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

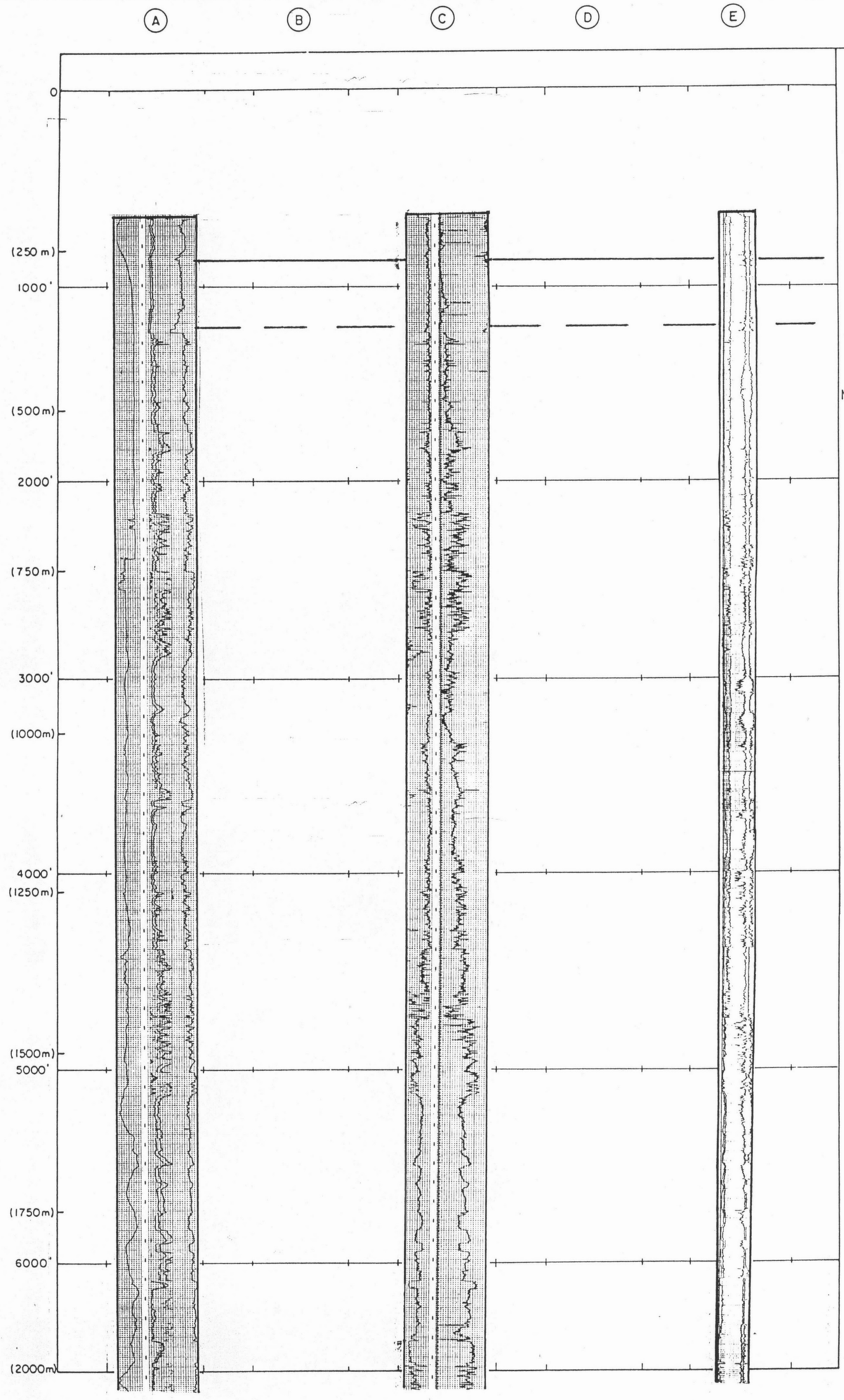
HARDY ASSOCIATES (1978) LTD.
CONSULTING ENGINEERING & PROFESSIONAL SERVICES

PERMAFROST / GAS HYDRATE STUDY
NORTHWEST TERRITORIES - YUKON

PEEL RIVER Y.T. M-69

CGI0136

FIGURE 34



LOGS (LEFT TO RIGHT)

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

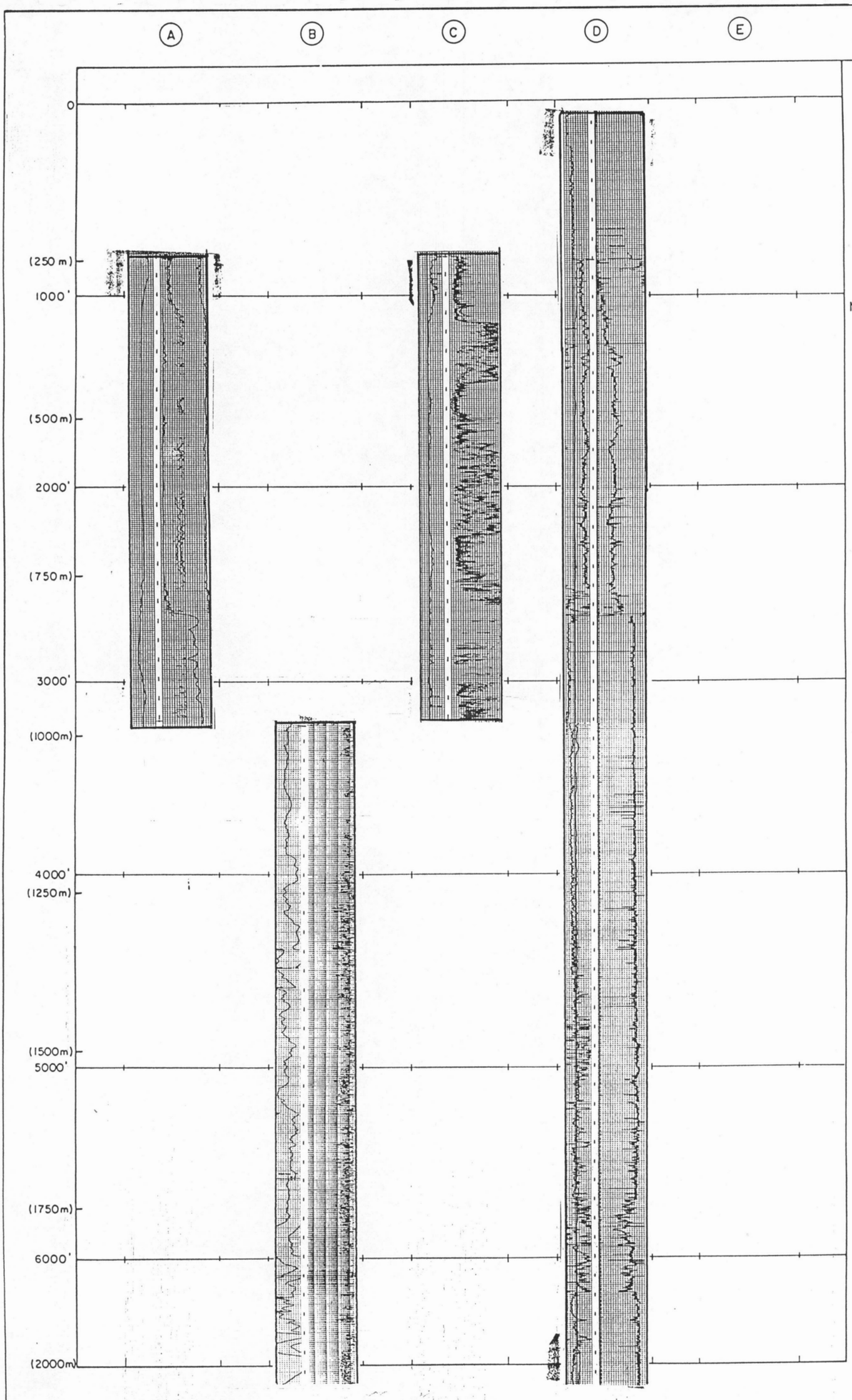
HARDY ASSOCIATES (1978) LTD.
CONSULTING ENGINEERING & PROFESSIONAL SERVICES

PERMAFROST / GAS HYDRATE STUDY
NORTHWEST TERRITORIES – YUKON

PEEL RIVER Y.T. I-21

CGI0136

FIGURE 35



LOGS (LEFT TO RIGHT)

- (A) IND E
- (B) DIL
- (C) ML-C
- (D) BHCS
- (E)

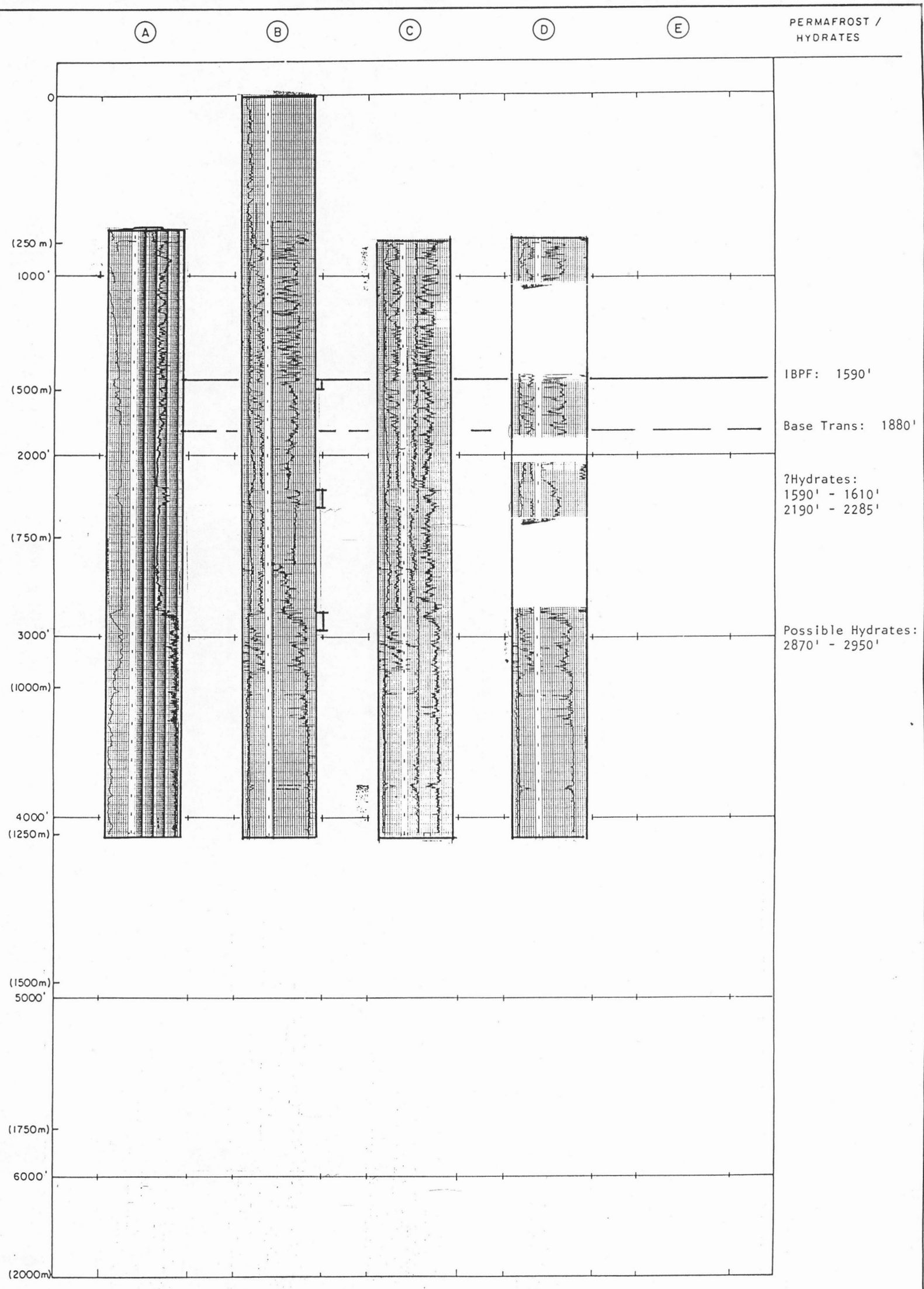
HARDY ASSOCIATES (1978) LTD.
CONSULTING ENGINEERING & PROFESSIONAL SERVICES

PERMAFROST / GAS HYDRATE STUDY
NORTHWEST TERRITORIES - YUKON

N. CATH Y.T. B-62

CG10136

FIGURE 36



LOGS (LEFT TO RIGHT)

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

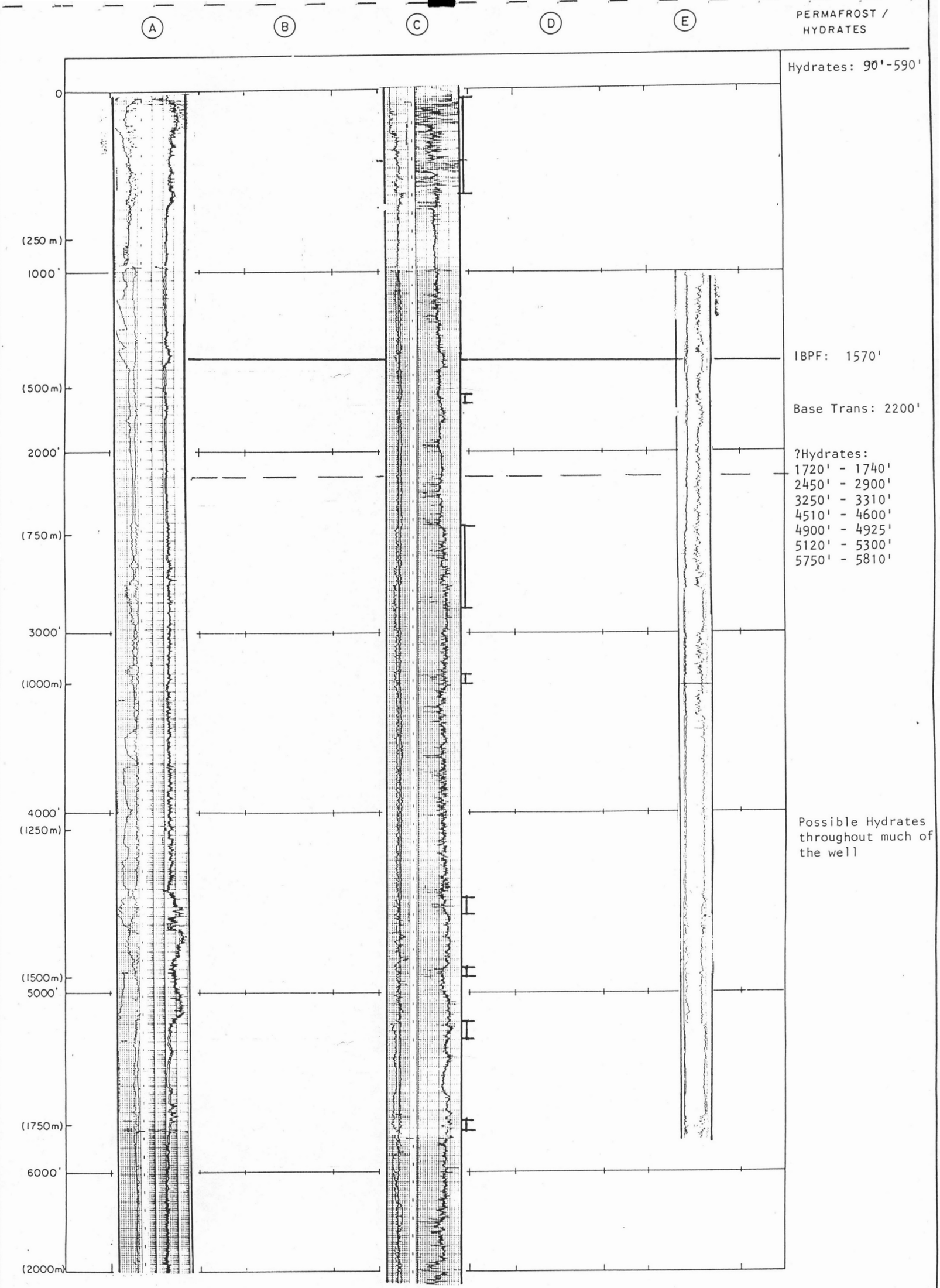
HARDY ASSOCIATES (1978) LTD.
CONSULTING ENGINEERING & PROFESSIONAL SERVICES

PERMAFROST / GAS HYDRATE STUDY
NORTHWEST TERRITORIES – YUKON

W. PARKIN Y.T. C-33

CGI0136

FIGURE 37



LOGS (LEFT TO RIGHT)

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

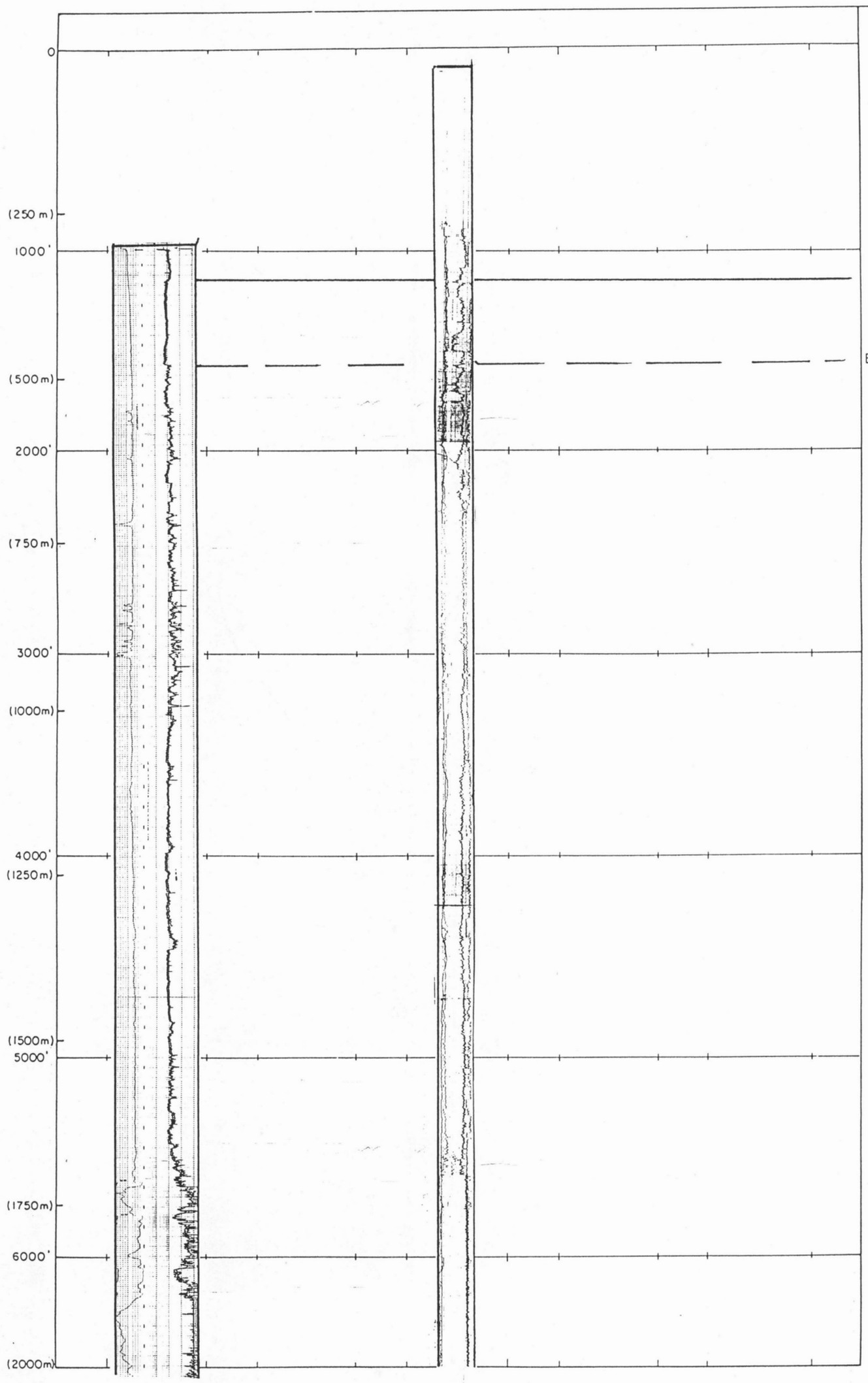
HARDY ASSOCIATES (1978) LTD.
CONSULTING ENGINEERING & PROFESSIONAL SERVICES

PERMAFROST / GAS HYDRATE STUDY
NORTHWEST TERRITORIES – YUKON

CARIBOU Y.T. N-25

CGI0136

FIGURE 38



LOGS (LEFT TO RIGHT)

- (A) DIL
- (B)
- (C) FDEN
- (D)
- (E)

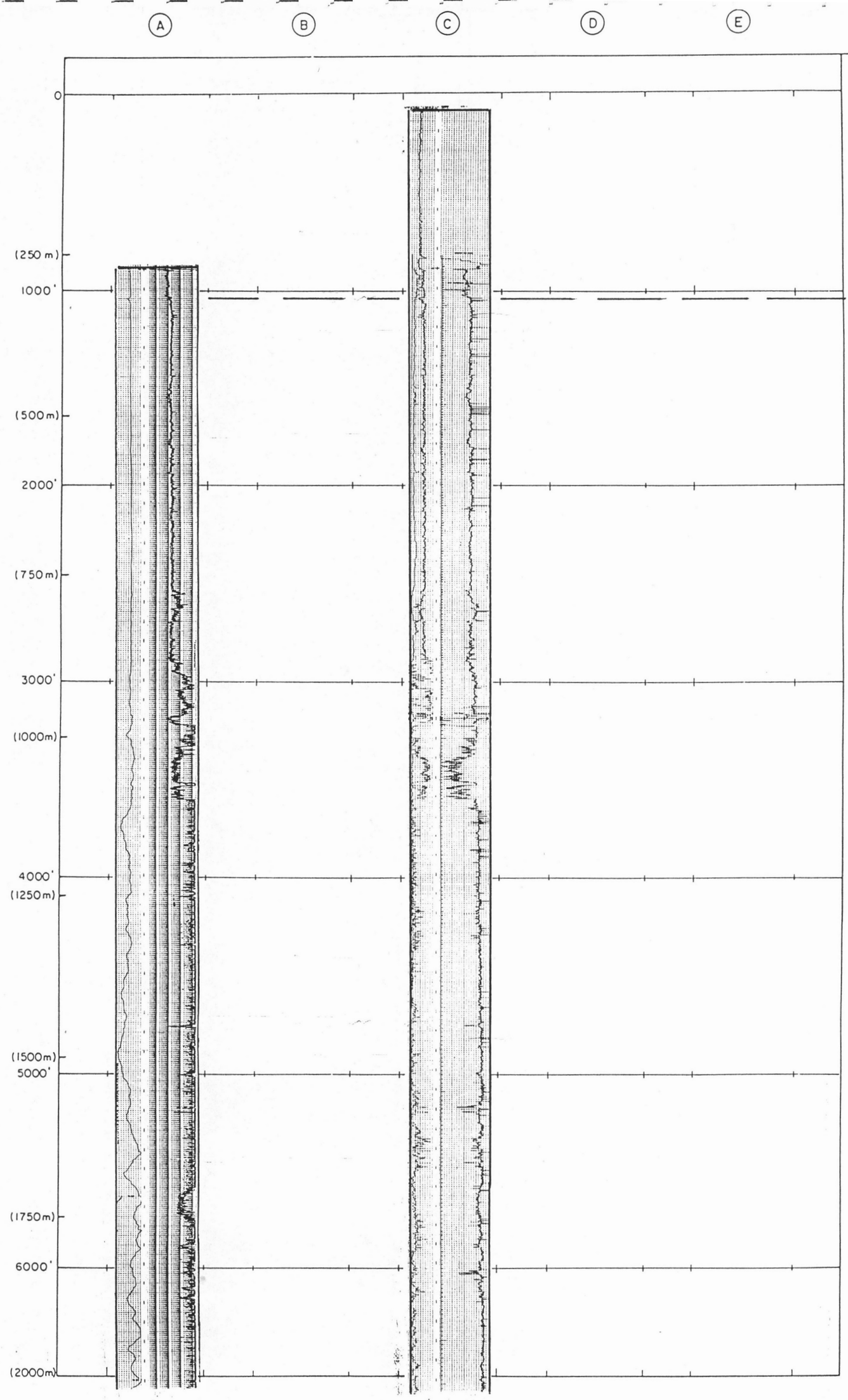
HARDY ASSOCIATES (1978) LTD.
CONSULTING ENGINEERING & PROFESSIONAL SERVICES

PERMAFROST / GAS HYDRATE STUDY
NORTHWEST TERRITORIES - YUKON

SAINVILLE RIVER D - 08

CGI0136

FIGURE 39



LOGS (LEFT TO RIGHT)

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

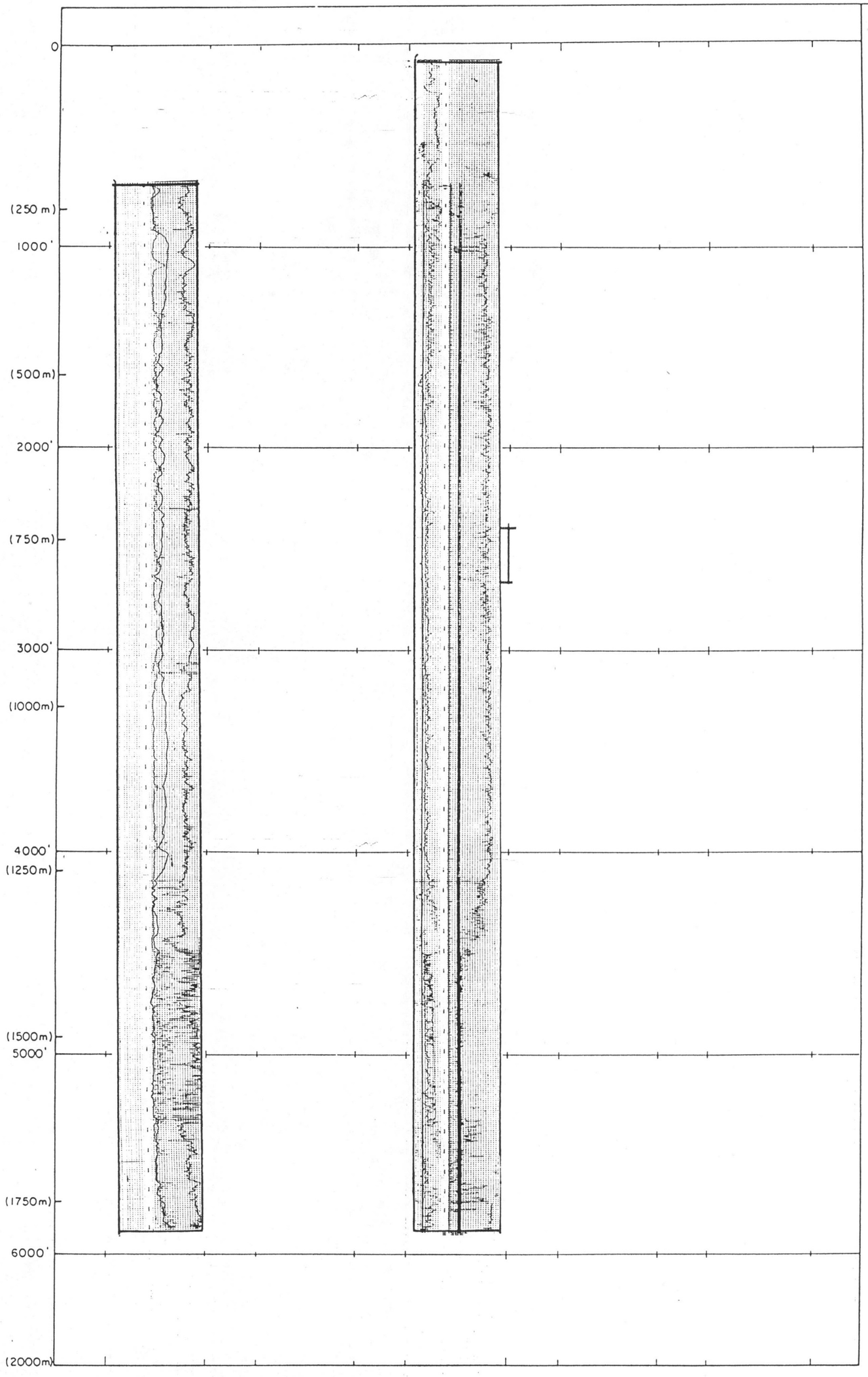
HARDY ASSOCIATES (1978) LTD.
CONSULTING ENGINEERING & PROFESSIONAL SERVICES

PERMAFROST / GAS HYDRATE STUDY
NORTHWEST TERRITORIES – YUKON

ONTARATUE I-38

CGI0136

FIGURE 40



LOGS (LEFT TO RIGHT)

- (A) IND E
- (B)
- (C) AC GR
- (D)
- (E)

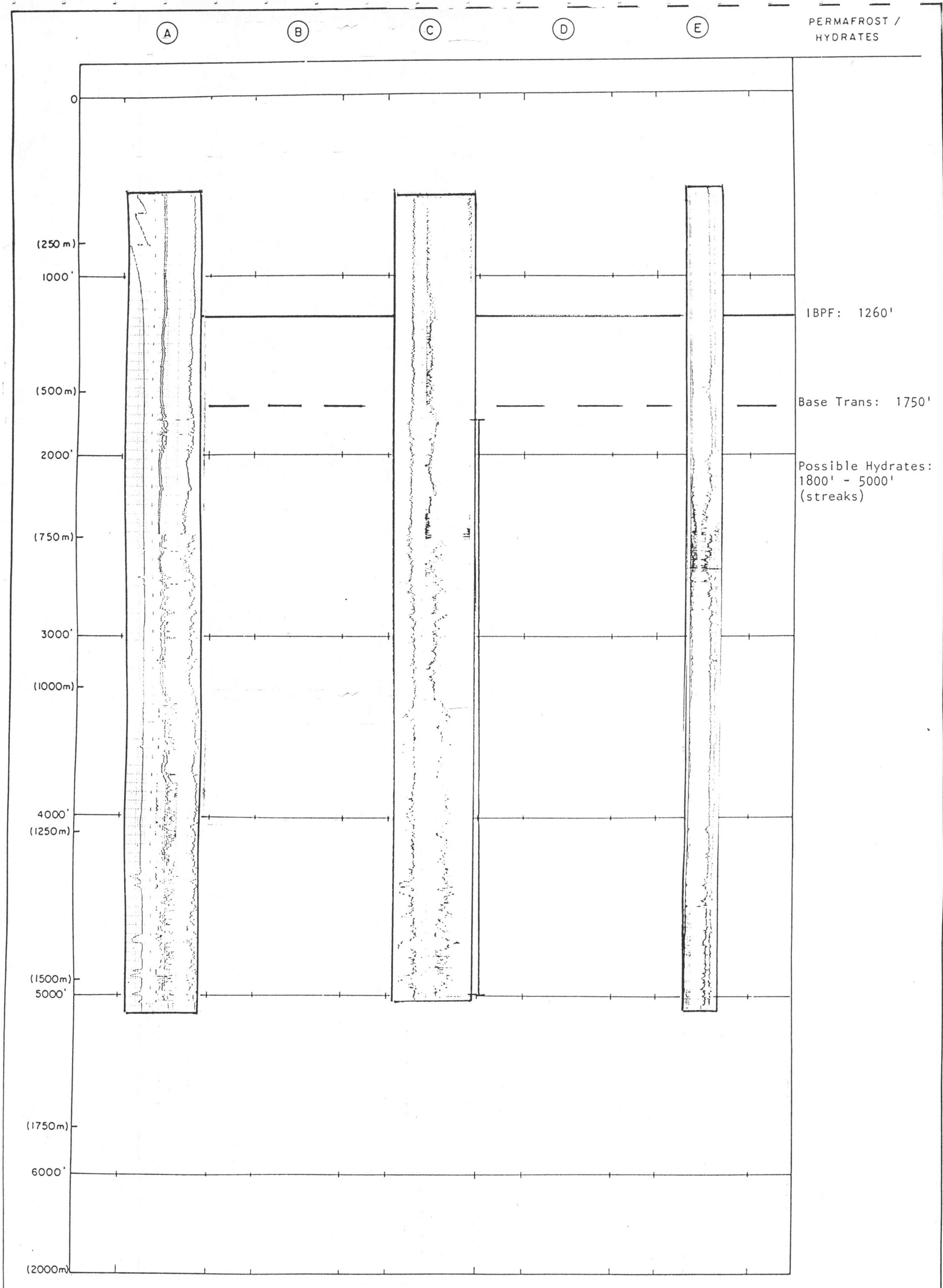
HARDY ASSOCIATES (1978) LTD.
CONSULTING ENGINEERING & PROFESSIONAL SERVICES

PERMAFROST / GAS HYDRATE STUDY
NORTHWEST TERRITORIES – YUKON

ONTADEK LAKE N-39

CGI0136

FIGURE 41



LOGS (LEFT TO RIGHT)

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

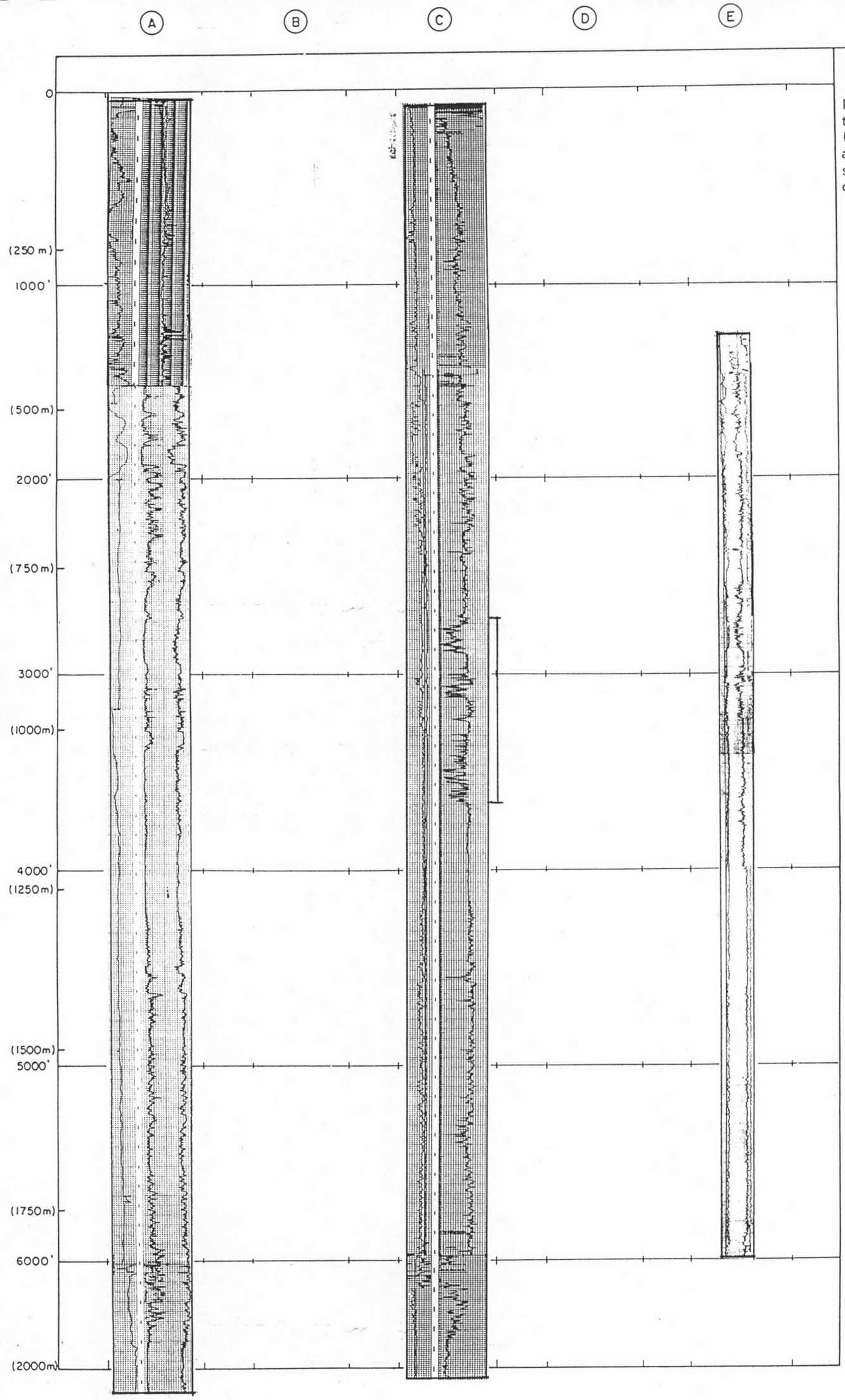
HARDY ASSOCIATES (1978) LTD.
CONSULTING ENGINEERING & PROFESSIONAL SERVICES

PERMAFROST / GAS HYDRATE STUDY
NORTHWEST TERRITORIES – YUKON

PEEL RIVER Y.T. K-09

CG10136

FIGURE 42



LOGS (LEFT TO RIGHT)

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

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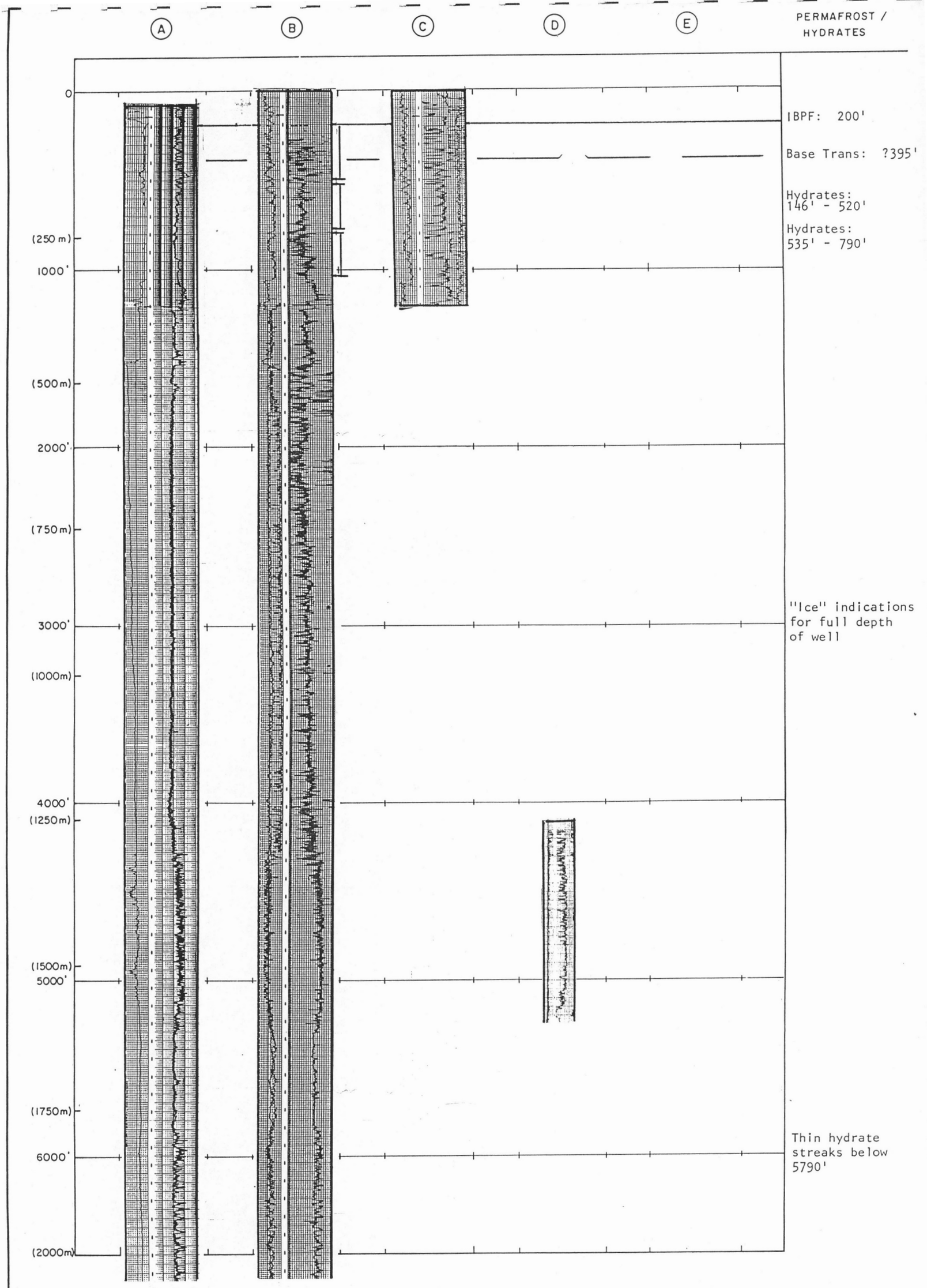
PERMAFROST / GAS HYDRATE STUDY
NORTHWEST TERRITORIES - YUKON

PEEL Y.T. H-71

CGI0136

FIGURE 43



LOGS (LEFT TO RIGHT)

Ⓐ DILL DILL
Ⓑ BHCS BHCS
Ⓒ FDEN [illegible]
Ⓓ SNP [illegible]
Ⓔ

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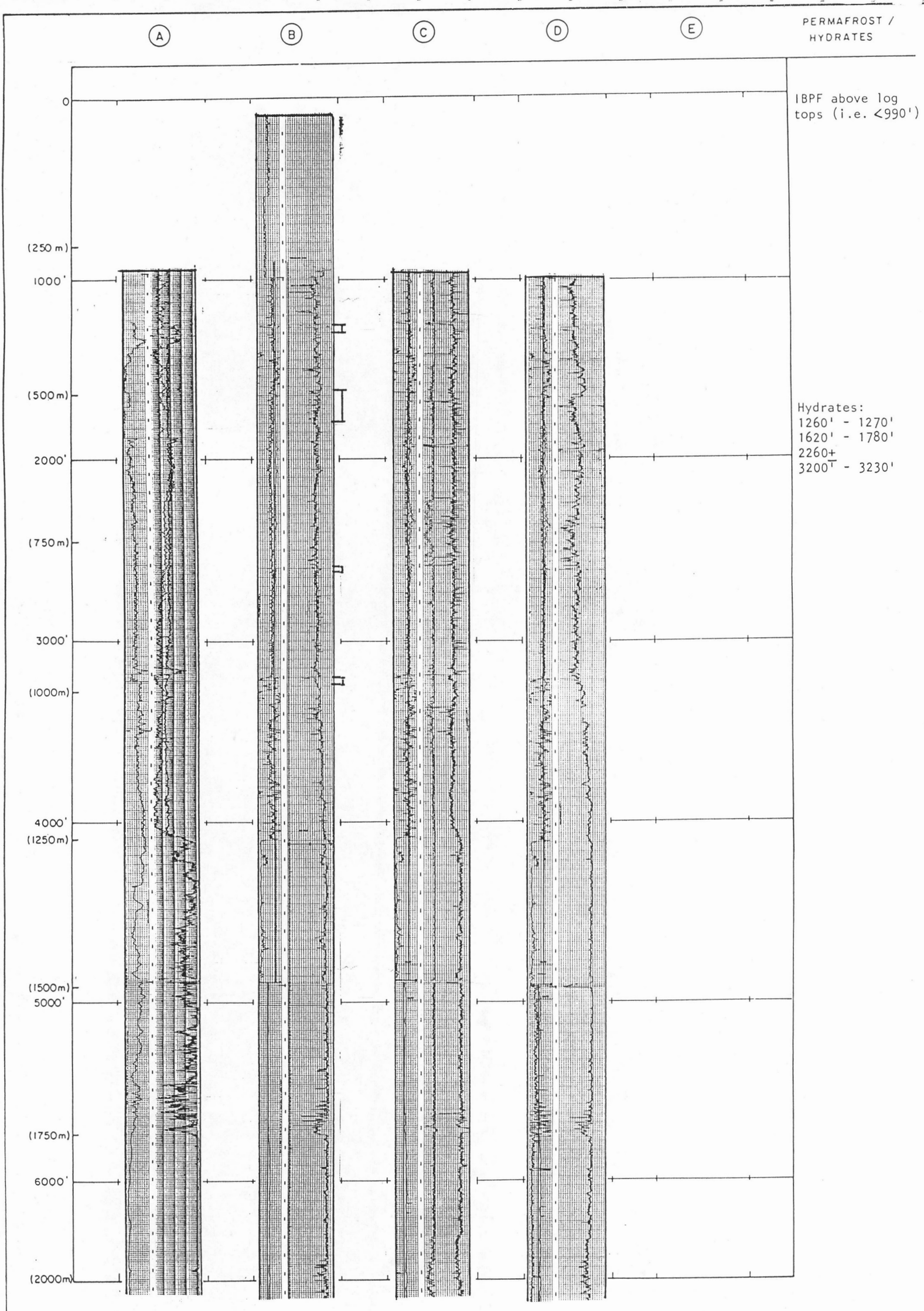
PERMAFROST / GAS HYDRATE STUDY
NORTHWEST TERRITORIES – YUKON

N. PARKIN Y.T. D-61

CG10136

FIGURE 44



LOGS (LEFT TO RIGHT)

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

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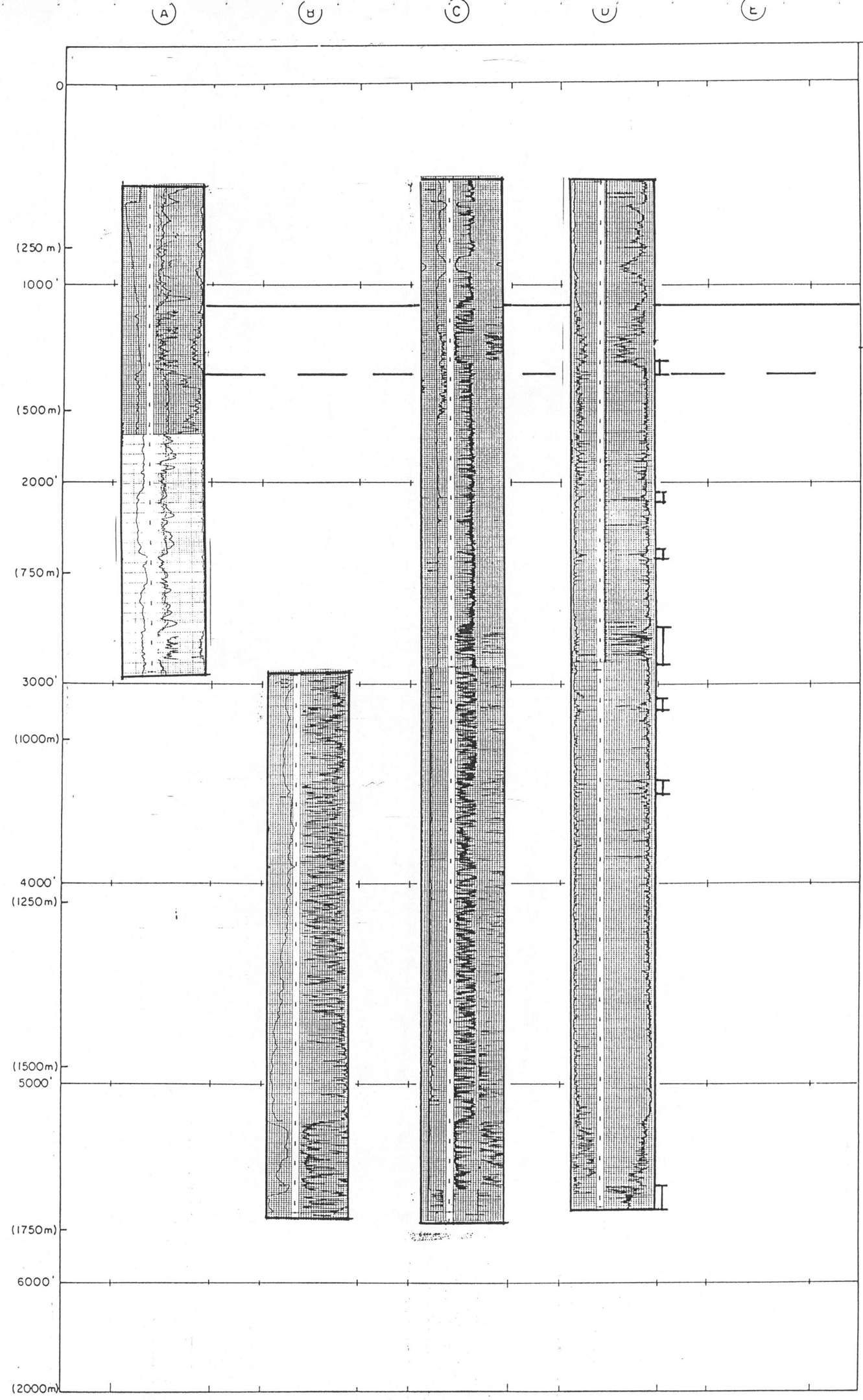
CONSULTING ENGINEERING & PROFESSIONAL SERVICES

PERMAFROST / GAS HYDRATE STUDY
NORTHWEST TERRITORIES – YUKON

PORCUPINE Y.T. G-31

CG10136

FIGURE 45



LOGS (LEFT TO RIGHT)

- (A) IND E
- (B) LL
- (C) M LL
- (D) BHCS
- (E)

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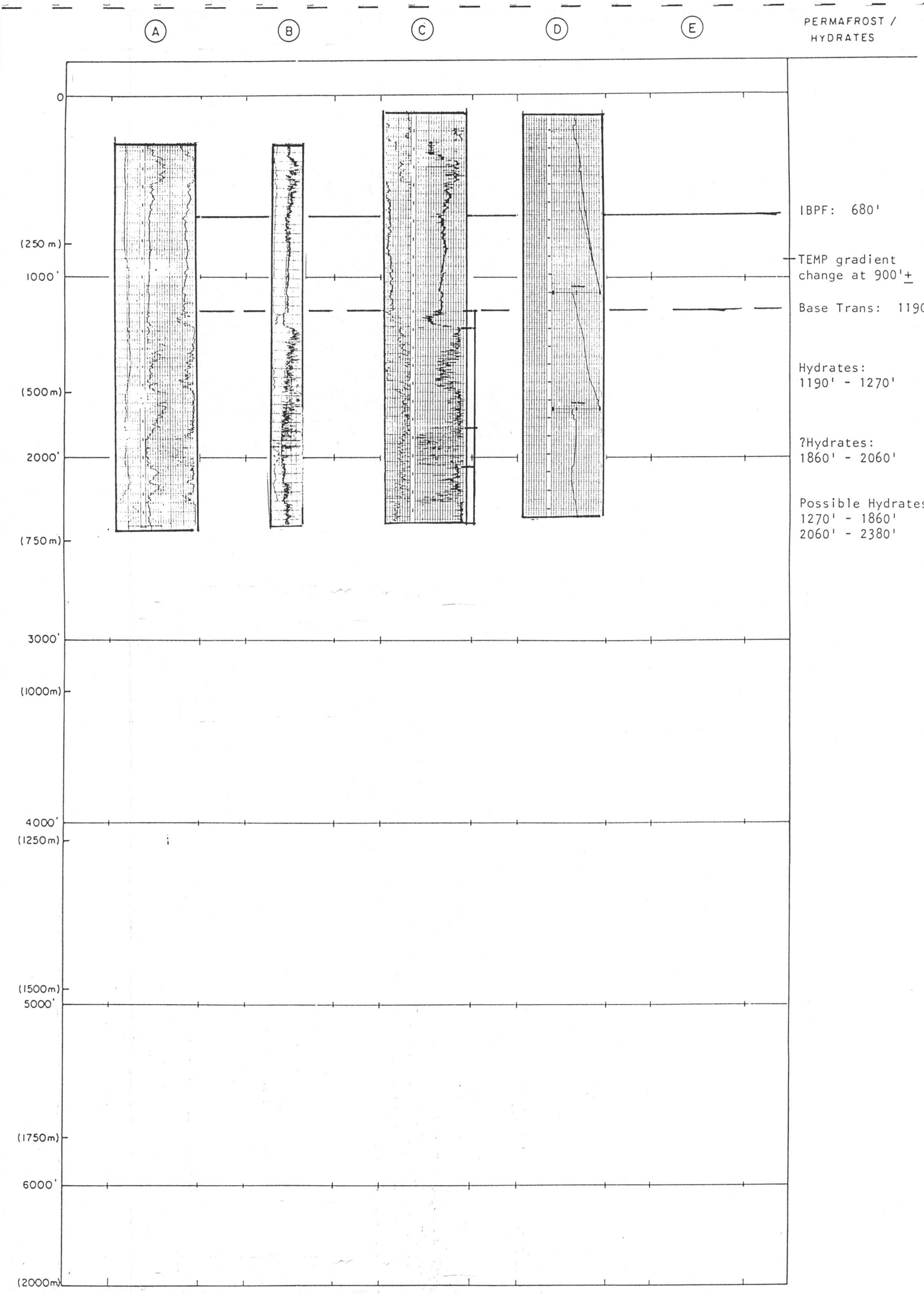
CONSULTING ENGINEERING & PROFESSIONAL SERVICES

PERMAFROST / GAS HYDRATE STUDY
NORTHWEST TERRITORIES – YUKON

MANITOU LAKE L-61

CGI0136

FIGURE 46



LOGS (LEFT TO RIGHT)

- (A) IND E
- (B) ML-C
- (C) SONIC
- (D) TEMP
- (E)

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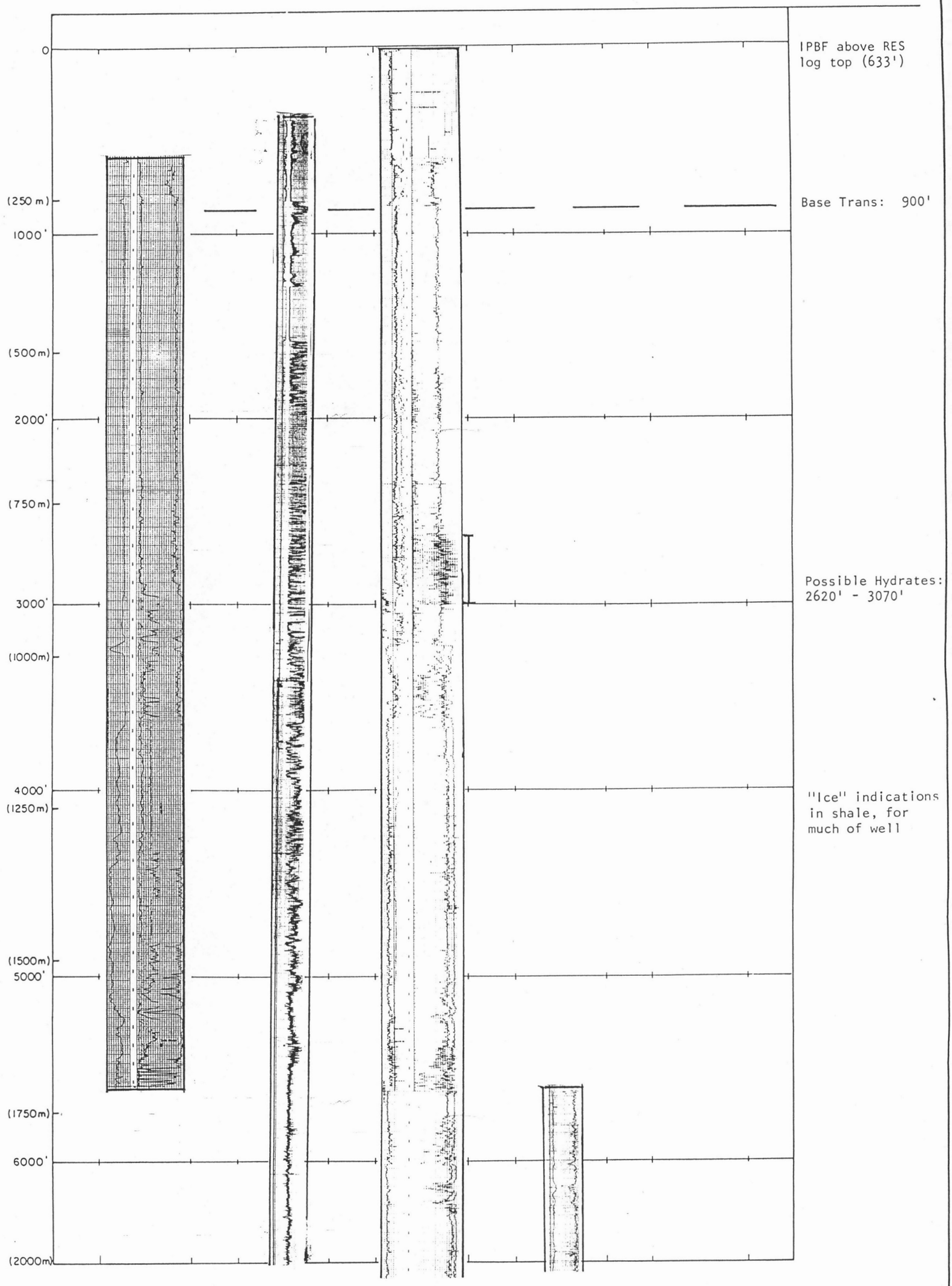
CONSULTING ENGINEERING & PROFESSIONAL SERVICES

PERMAFROST / GAS HYDRATE STUDY
NORTHWEST TERRITORIES - YUKON

S.W. AIRPORT CREEK No. 1

CGI0136

FIGURE 47



LOGS (LEFT TO RIGHT)

- (A) IND E
- (B) ML-C
- (C) S-GR
- (D) FDEN
- (E)

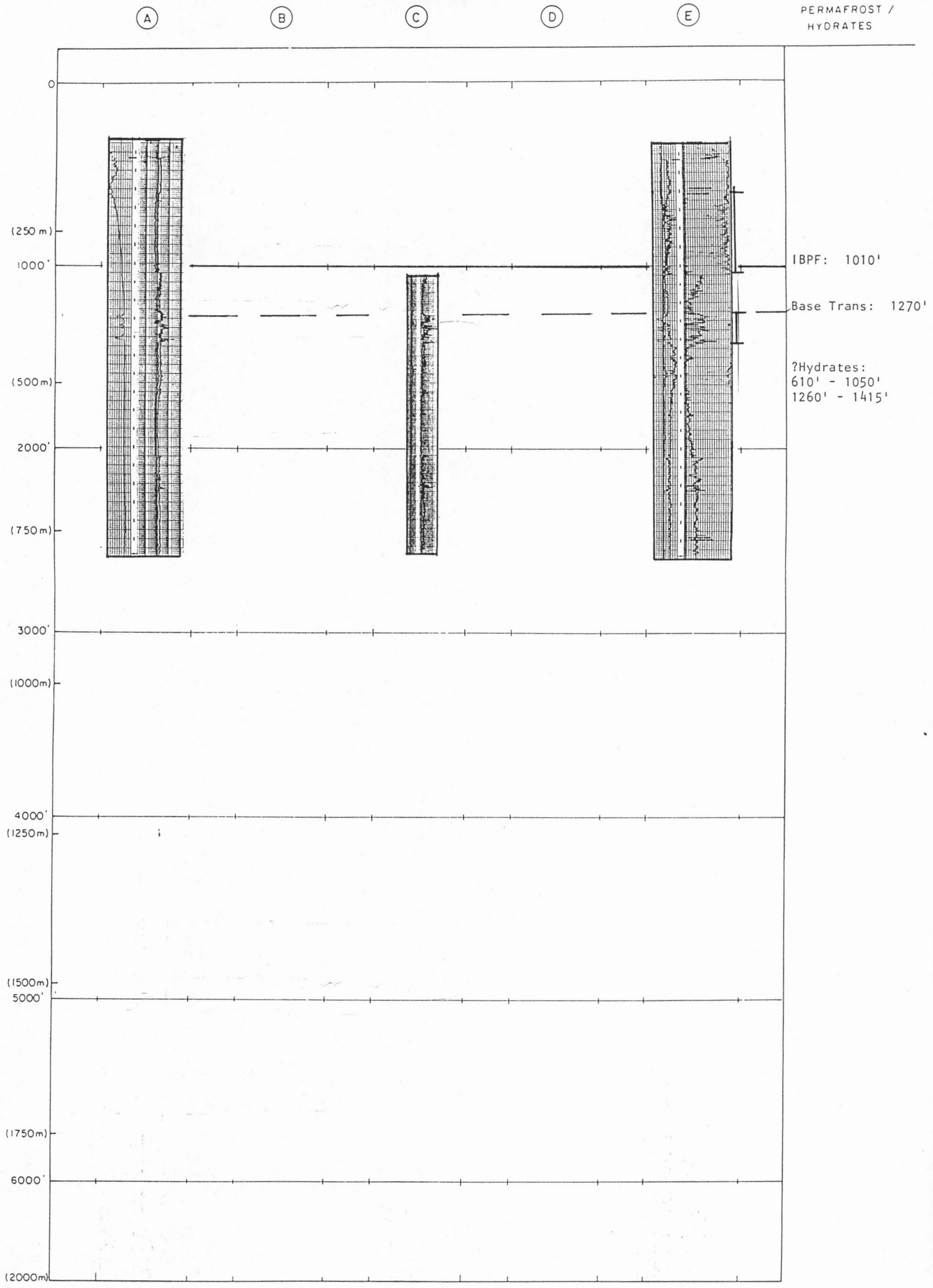
HARDY ASSOCIATES (1978) LTD.
CONSULTING ENGINEERING & PROFESSIONAL SERVICES

PERMAFROST / GAS HYDRATE STUDY
NORTHWEST TERRITORIES - YUKON

ONTARATUE H-34

CGI0136

FIGURE 48



LOGS (LEFT TO RIGHT)

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

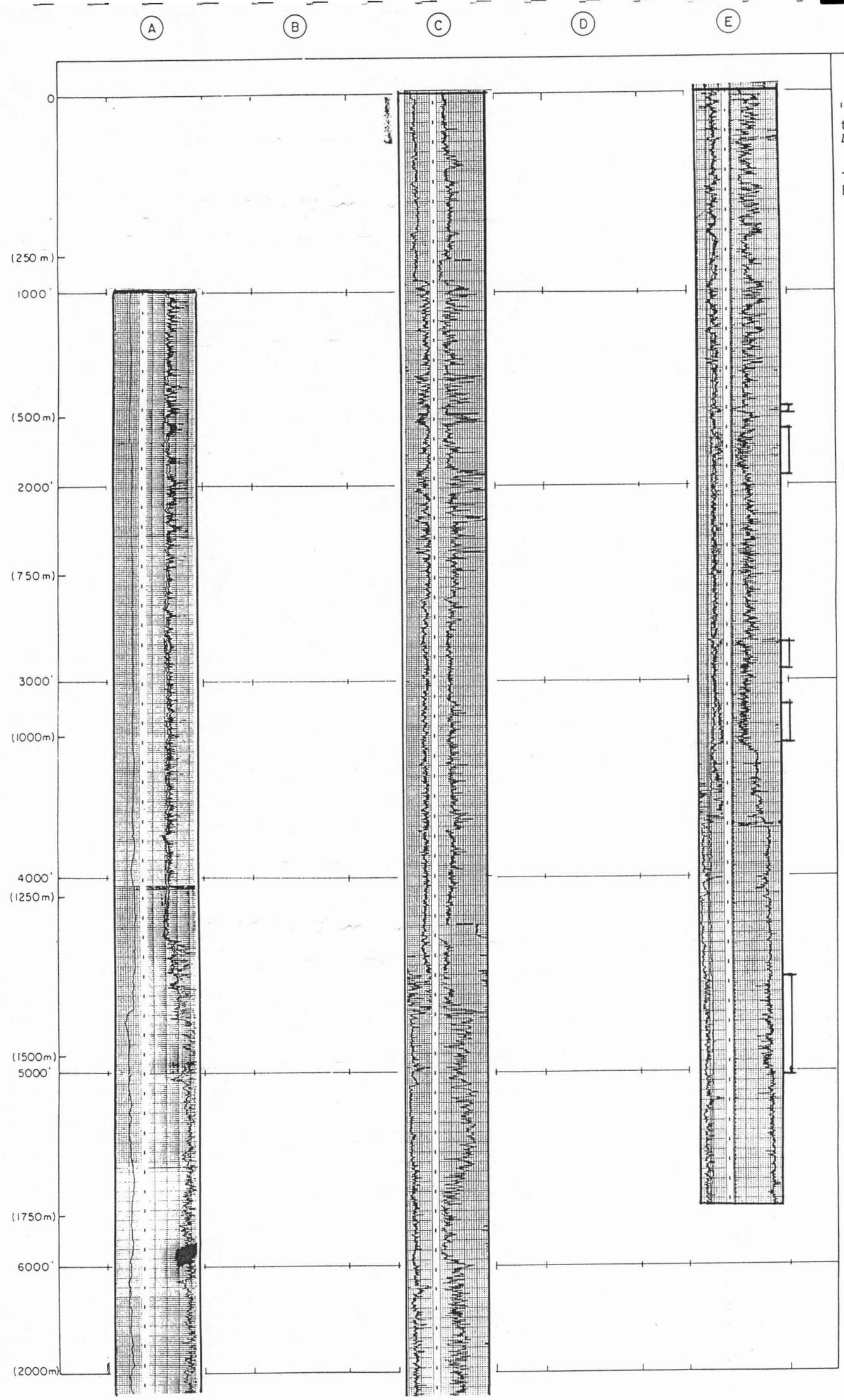
HARDY ASSOCIATES (1978) LTD.
CONSULTING ENGINEERING & PROFESSIONAL SERVICES

PERMAFROST / GAS HYDRATE STUDY
NORTHWEST TERRITORIES - YUKON

SAINVILLE RIVER K-63

CG10136

FIGURE 49



LOGS (LEFT TO RIGHT)

- (A) DILL
- (B)
- (C) S-GR-C
- (D)
- (E) GRN

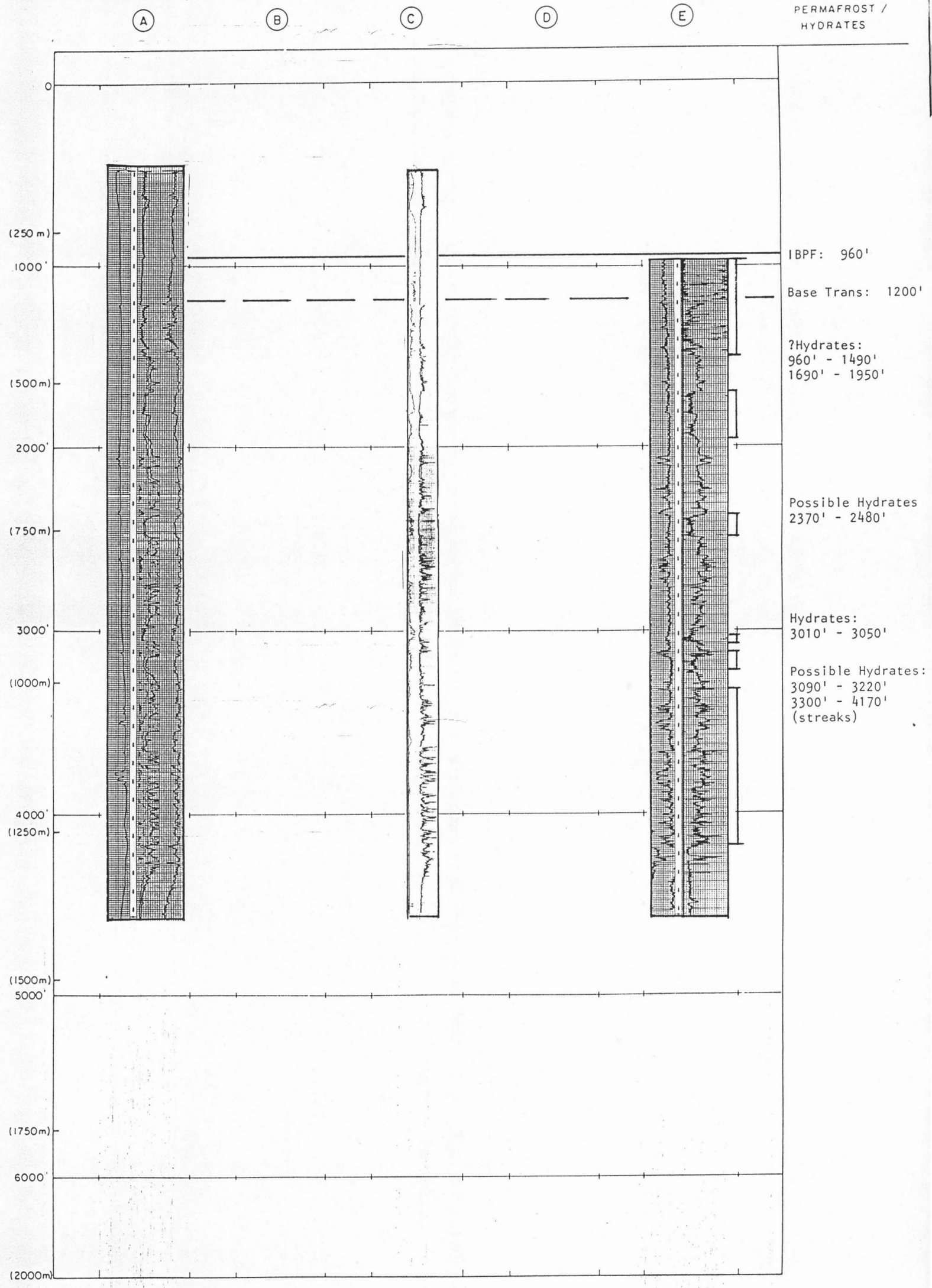
HARDY ASSOCIATES (1978) LTD.
CONSULTING ENGINEERING & PROFESSIONAL SERVICES

PERMAFROST / GAS HYDRATE STUDY
NORTHWEST TERRITORIES – YUKON

S. TUTTLE Y.T. N-05

CGI0136

FIGURE 50



LOGS (LEFT TO RIGHT)

- (A) IND E
- (B)
- (C) ML-C
- (D)
- (E) BHCS

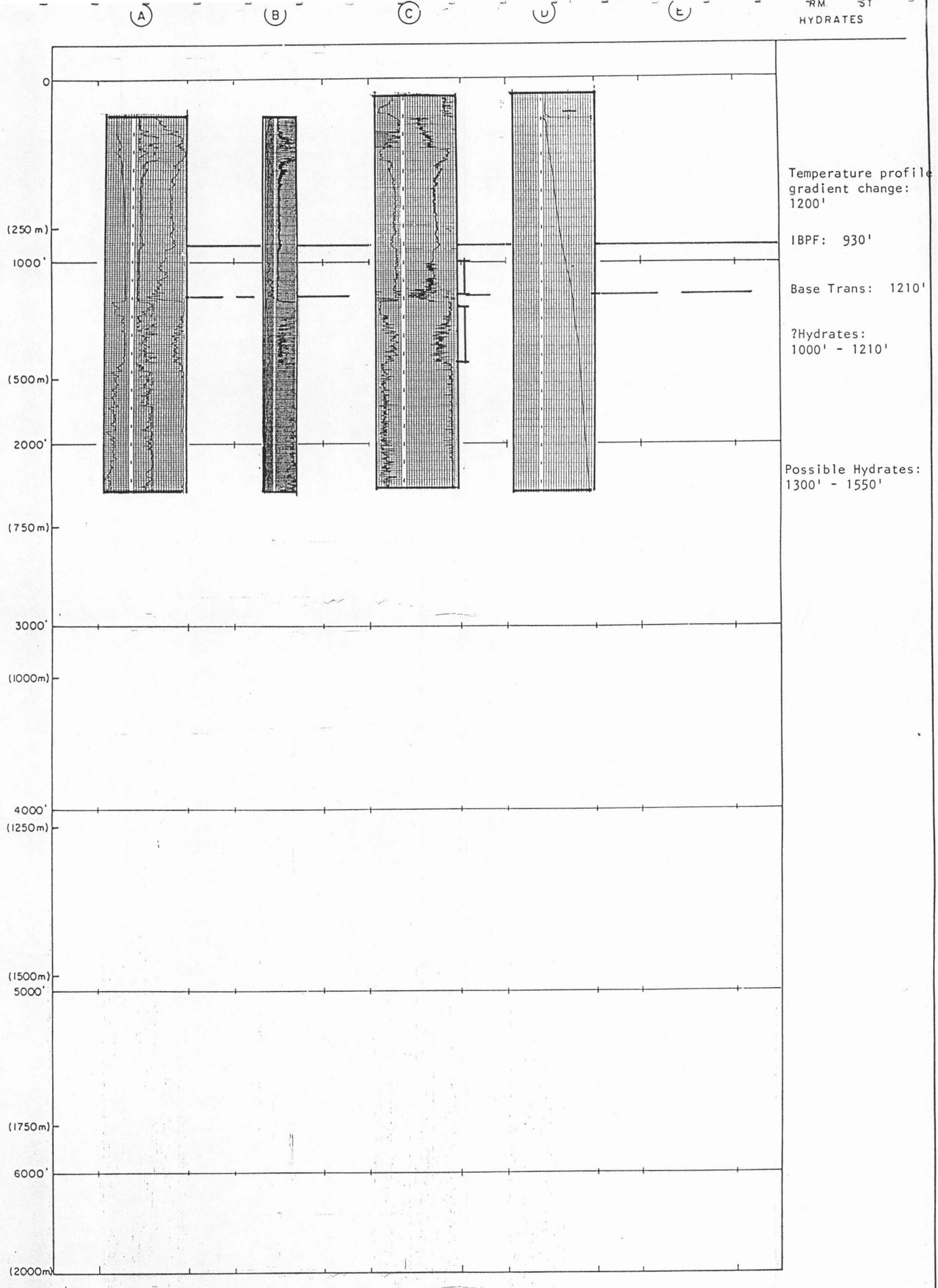
HARDY ASSOCIATES (1978) LTD.
CONSULTING ENGINEERING & PROFESSIONAL SERVICES

PERMAFROST / GAS HYDRATE STUDY
NORTHWEST TERRITORIES - YUKON

PEEL RIVER Y.T. K-76

CGI0136

FIGURE 51



LOGS (LEFT TO RIGHT)

- (A) IND E
- (B) ML-C
- (C) SONIC
- (D) TEMP
- (E)

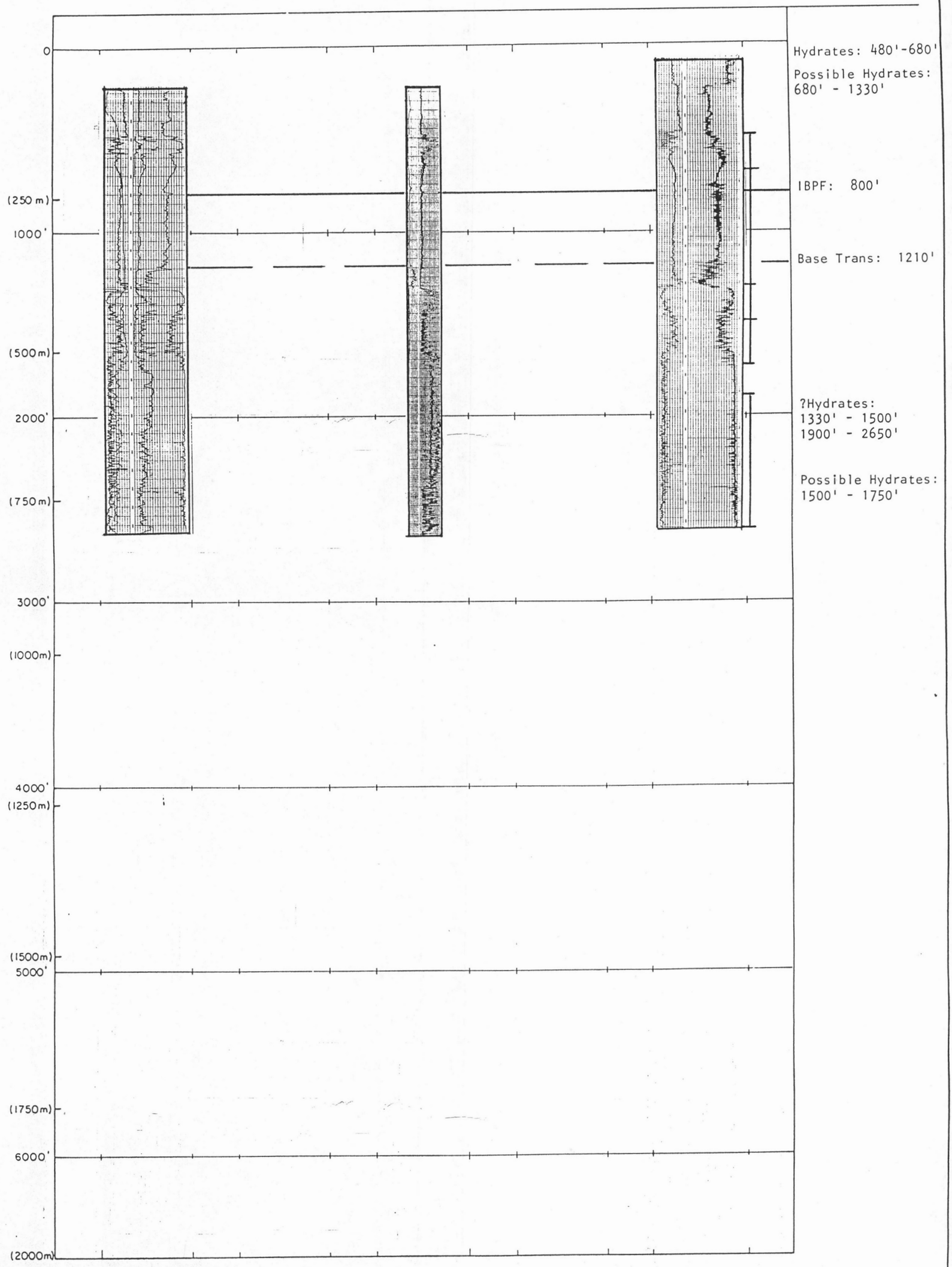
HARDY ASSOCIATES (1978) LTD.
CONSULTING ENGINEERING & PROFESSIONAL SERVICES

PERMAFROST / GAS HYDRATE STUDY
NORTHWEST TERRITORIES – YUKON

N. CIRCLE RIVER No. 1

CGI0136

FIGURE 52



LOGS (LEFT TO RIGHT)

- (A) IND E
- (B)
- (C) ML-C
- (D)
- (E) SONIC

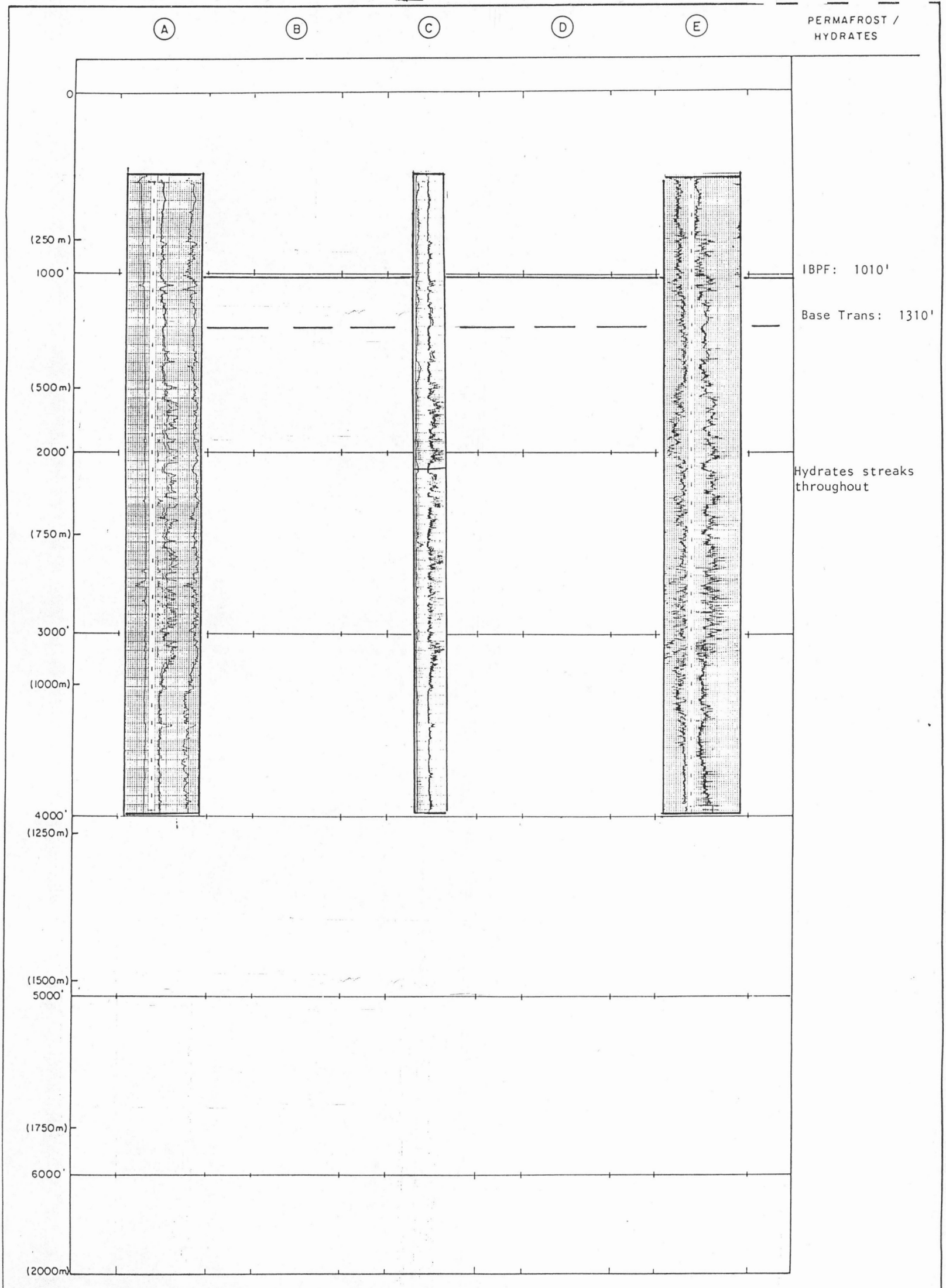
HARDY ASSOCIATES (1978) LTD.
CONSULTING ENGINEERING & PROFESSIONAL SERVICES

PERMAFROST / GAS HYDRATE STUDY
NORTHWEST TERRITORIES - YUKON

CIRCLE RIVER No. 1

CG10136

FIGURE 53



LOGS (LEFT TO RIGHT)

(A) IND E

(B)

(C) ML-C

(D)

(E) BHCS

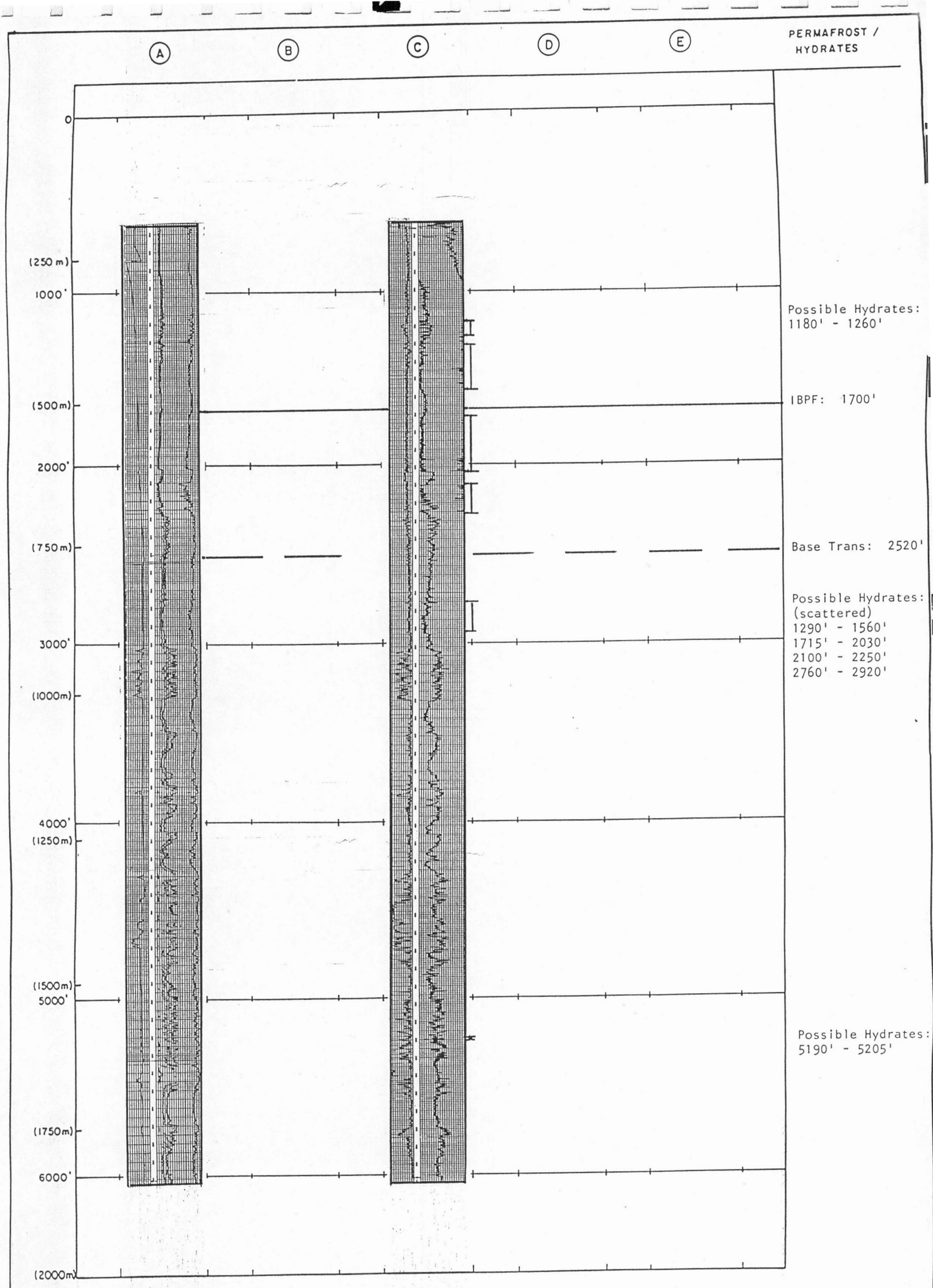
HARDY ASSOCIATES (1978) LTD.
CONSULTING ENGINEERING & PROFESSIONAL SERVICES

PERMAFROST / GAS HYDRATE STUDY
NORTHWEST TERRITORIES – YUKON

PEEL RIVER Y. T. J-21

CGI0136

FIGURE 54



LOGS (LEFT TO RIGHT)

Ⓐ IND E

Ⓑ

Ⓒ BHCS

Ⓓ

Ⓔ

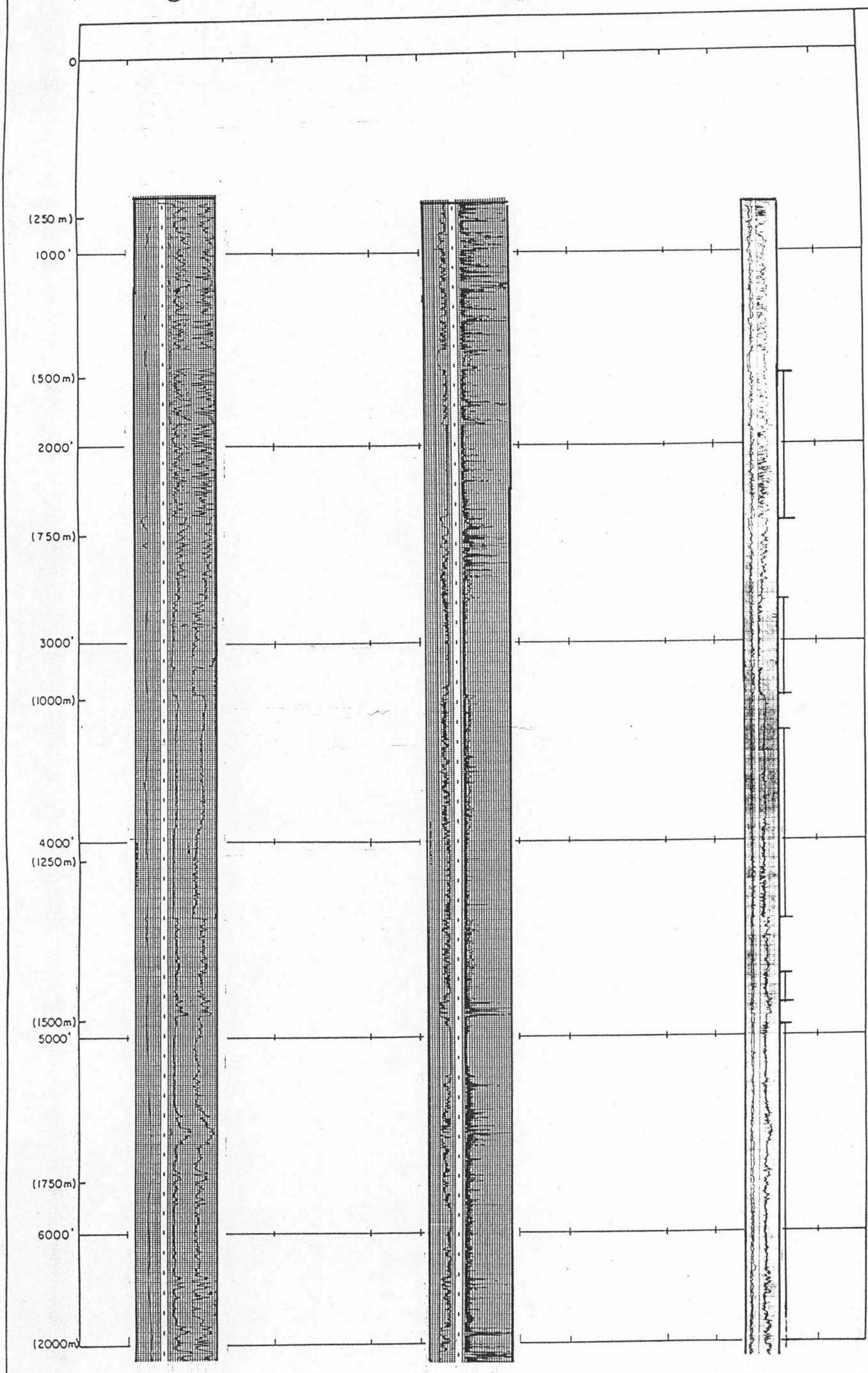
HARDY ASSOCIATES (1978) LTD.
CONSULTING ENGINEERING & PROFESSIONAL SERVICES

PERMAFROST / GAS HYDRATE STUDY
NORTHWEST TERRITORIES - YUKON

PEEL RIVER Y.T. L-01

CG10136

FIGURE 55



LOGS (LEFT TO RIGHT)

- (A) IND E
- (B)
- (C) ML-C
- (D)
- (E) BHCS

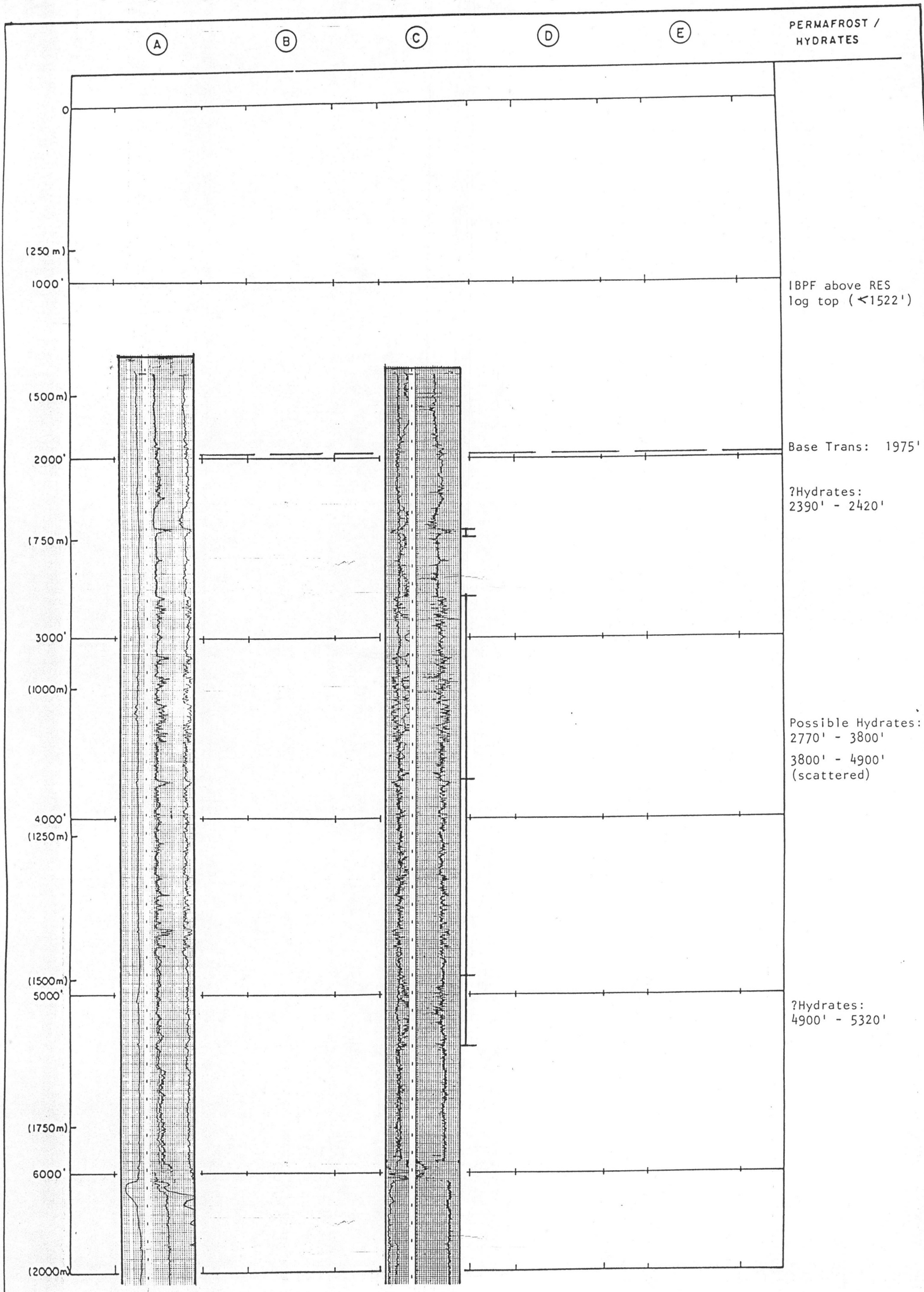
HARDY ASSOCIATES (1978) LTD.
CONSULTING ENGINEERING & PROFESSIONAL SERVICES

PERMAFROST / GAS HYDRATE STUDY
NORTHWEST TERRITORIES – YUKON

ELLEN Y.T. C-24

CGI0136

FIGURE 56



LOGS (LEFT TO RIGHT)

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

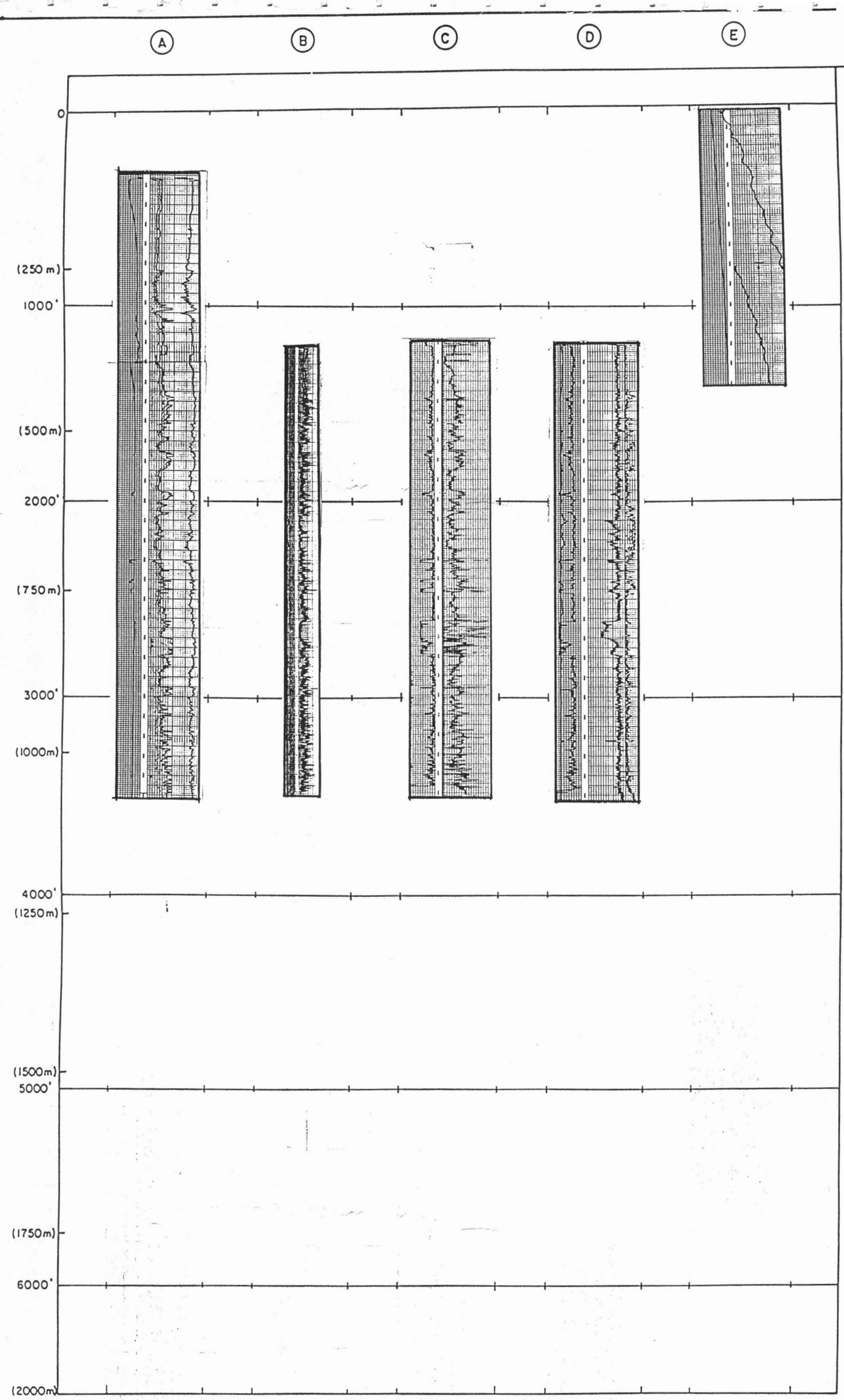
HARDY ASSOCIATES (1978) LTD.
CONSULTING ENGINEERING & PROFESSIONAL SERVICES

PERMAFROST / GAS HYDRATE STUDY
NORTHWEST TERRITORIES – YUKON

N. HOPE Y.T. N-53

CG10136

FIGURE 57



LOGS (LEFT TO RIGHT)

- (A) IND E
- (B) ML-C
- (C) BHCS
- (D) FDEN
- (E) TEMP

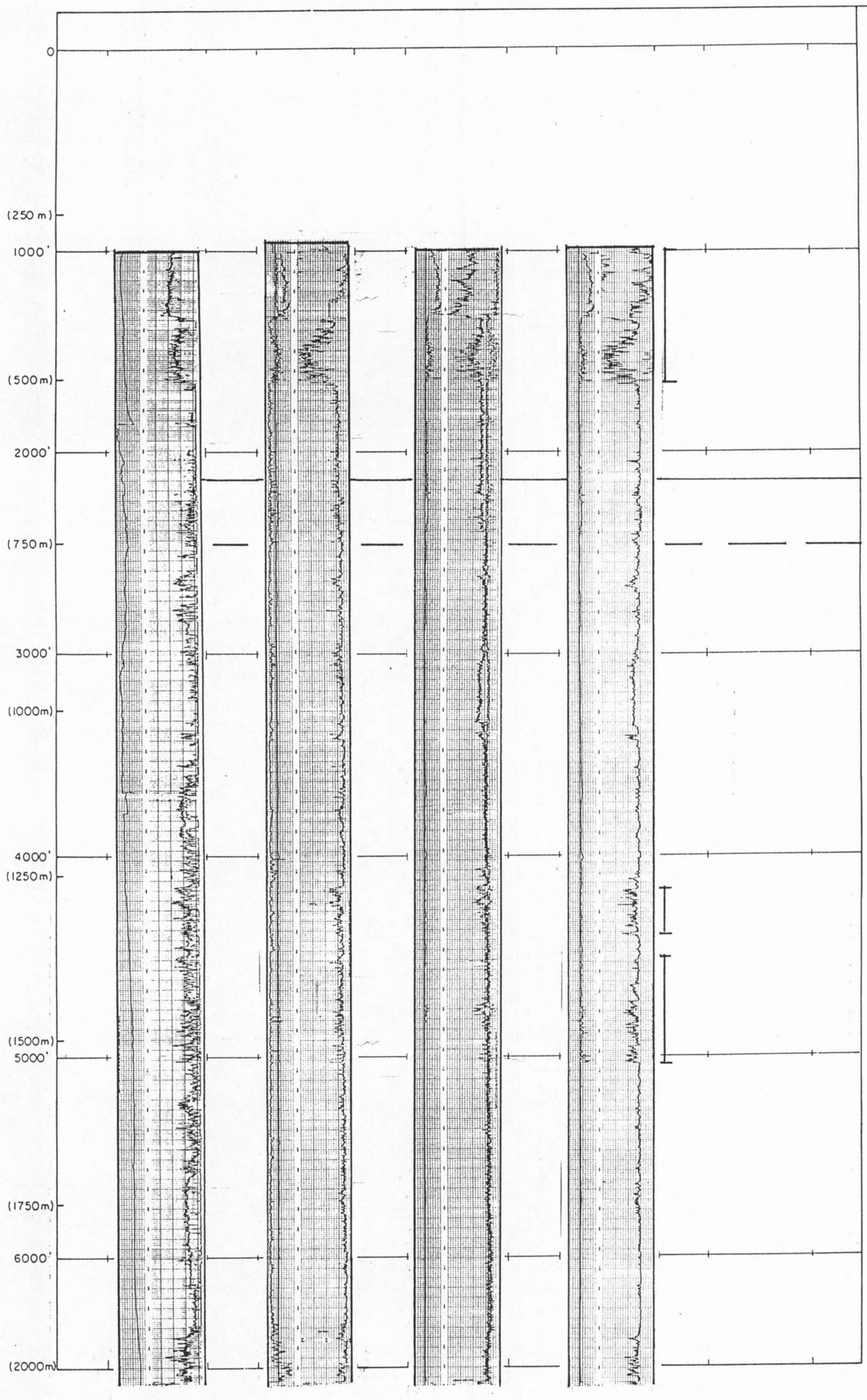
HARDY ASSOCIATES (1978) LTD.
CONSULTING ENGINEERING & PROFESSIONAL SERVICES

PERMAFROST / GAS HYDRATE STUDY
NORTHWEST TERRITORIES – YUKON

PEEL RIVER Y.T. B - 06A

CG10136

FIGURE 58



LOGS (LEFT TO RIGHT)

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

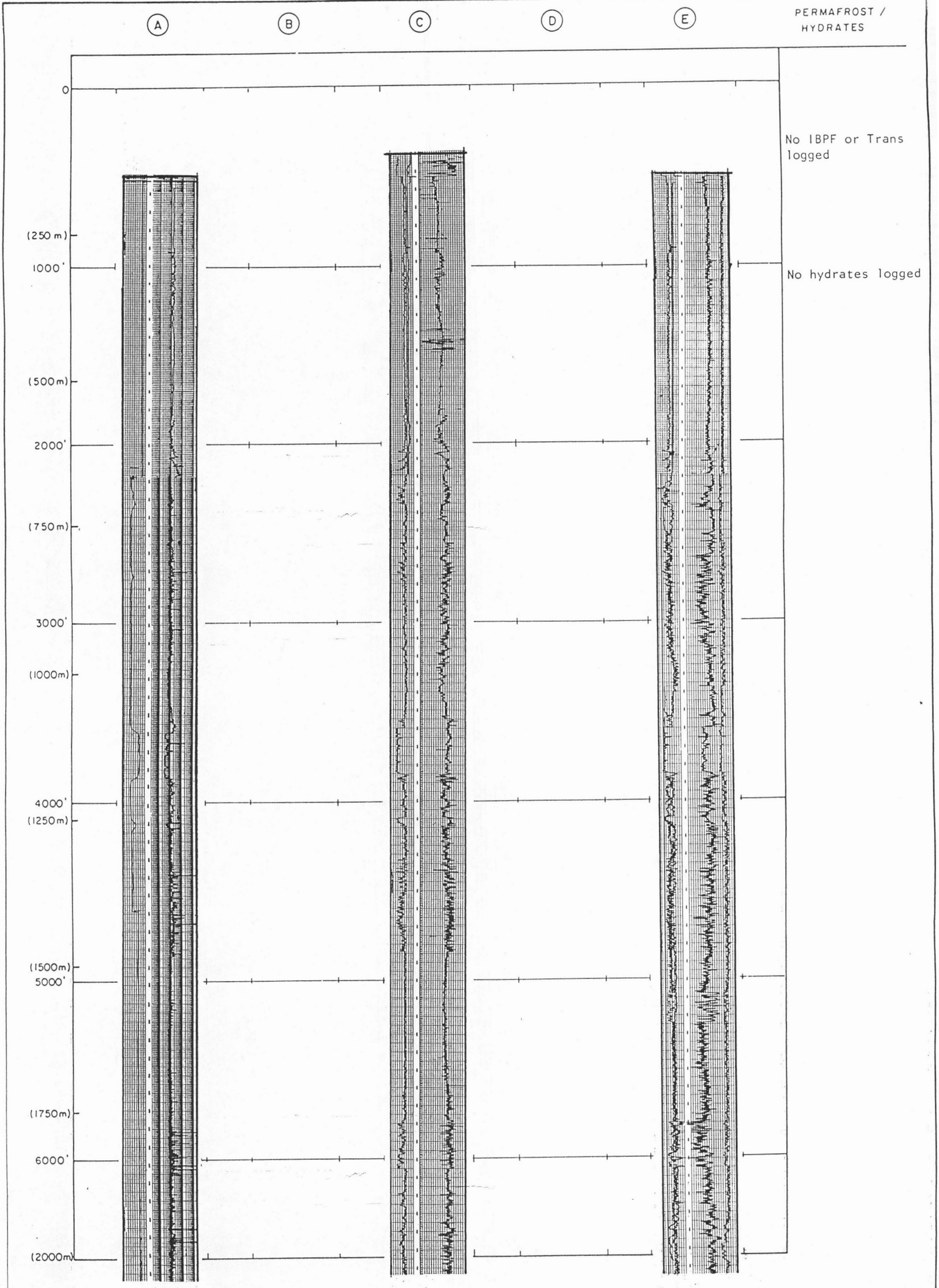
HARDY ASSOCIATES (1978) LTD.
CONSULTING ENGINEERING & PROFESSIONAL SERVICES

PERMAFROST / GAS HYDRATE STUDY
NORTHWEST TERRITORIES - YUKON

GRANDVIEW L-26

CGI0136

FIGURE 59



LOGS (LEFT TO RIGHT)

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

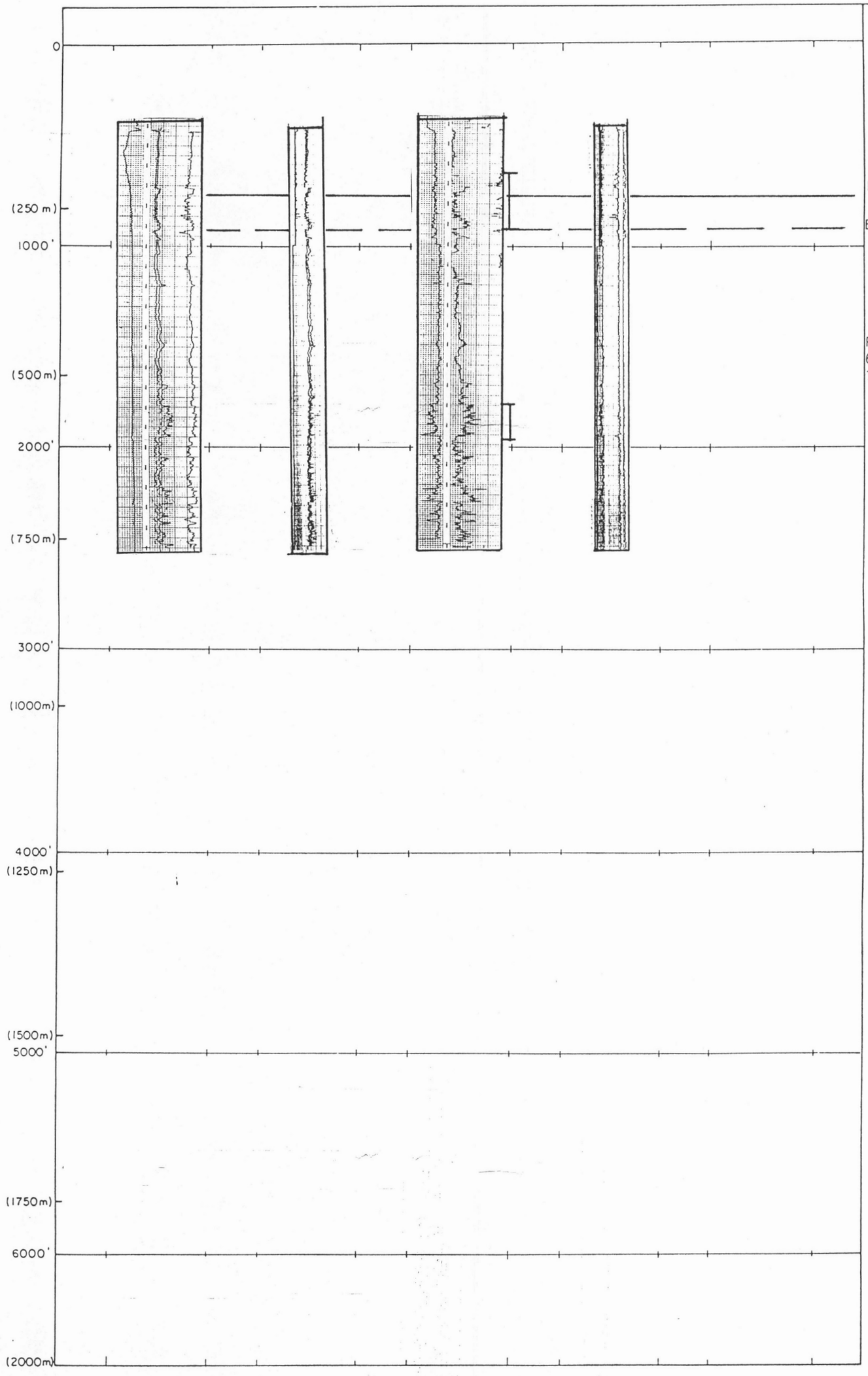
HARDY ASSOCIATES (1978) LTD.
CONSULTING ENGINEERING & PROFESSIONAL SERVICES

PERMAFROST / GAS HYDRATE STUDY
NORTHWEST TERRITORIES – YUKON

TRAIL RIVER Y.T. H-37

CG10136

FIGURE 60



LOGS (LEFT TO RIGHT)

- (A) IND E
- (B) ML-C
- (C) BHCS
- (D) FDEN
- (E)

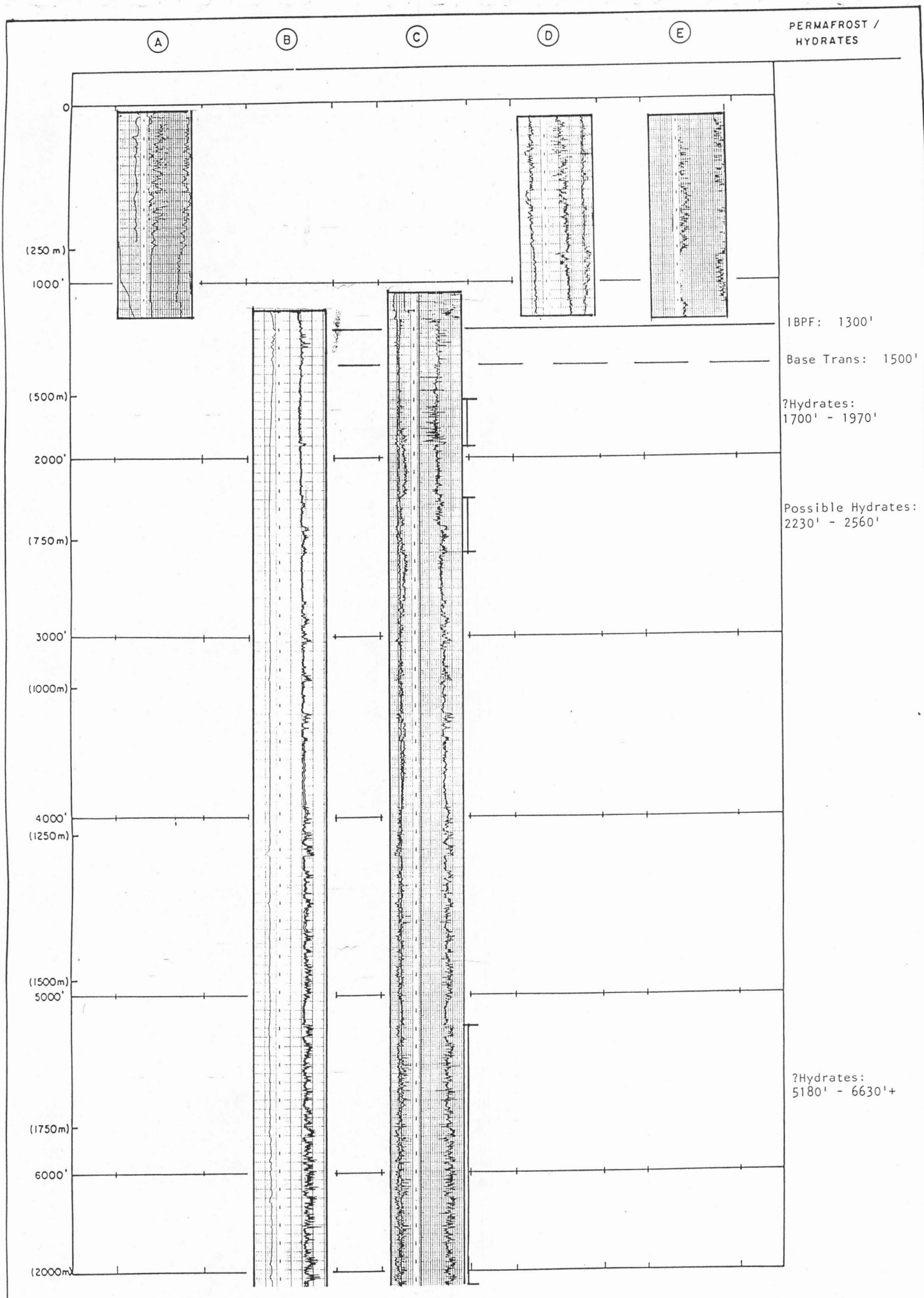
HARDY ASSOCIATES (1978) LTD.
CONSULTING ENGINEERING & PROFESSIONAL SERVICES

PERMAFROST / GAS HYDRATE STUDY
NORTHWEST TERRITORIES - YUKON

PEEL RIVER Y.T. H-59

CGI0136

FIGURE 61



LOGS (LEFT TO RIGHT)

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

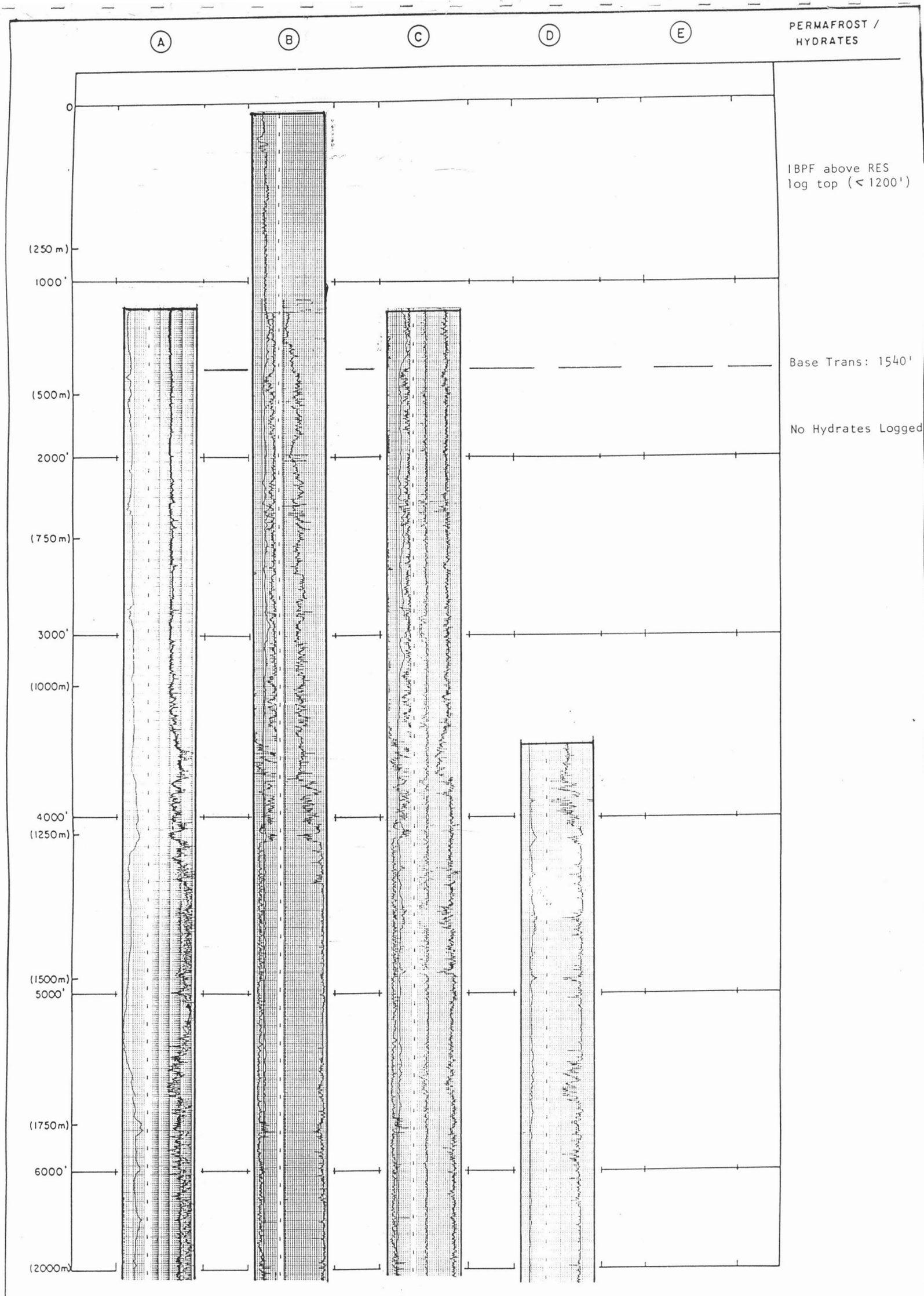
HARDY ASSOCIATES (1978) LTD.
CONSULTING ENGINEERING & PROFESSIONAL SERVICES

PERMAFROST / GAS HYDRATE STUDY
NORTHWEST TERRITORIES – YUKON

SHAEFFER CREEK Y.T. O - 22

CGI0136

FIGURE 62



LOGS (LEFT TO RIGHT)

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

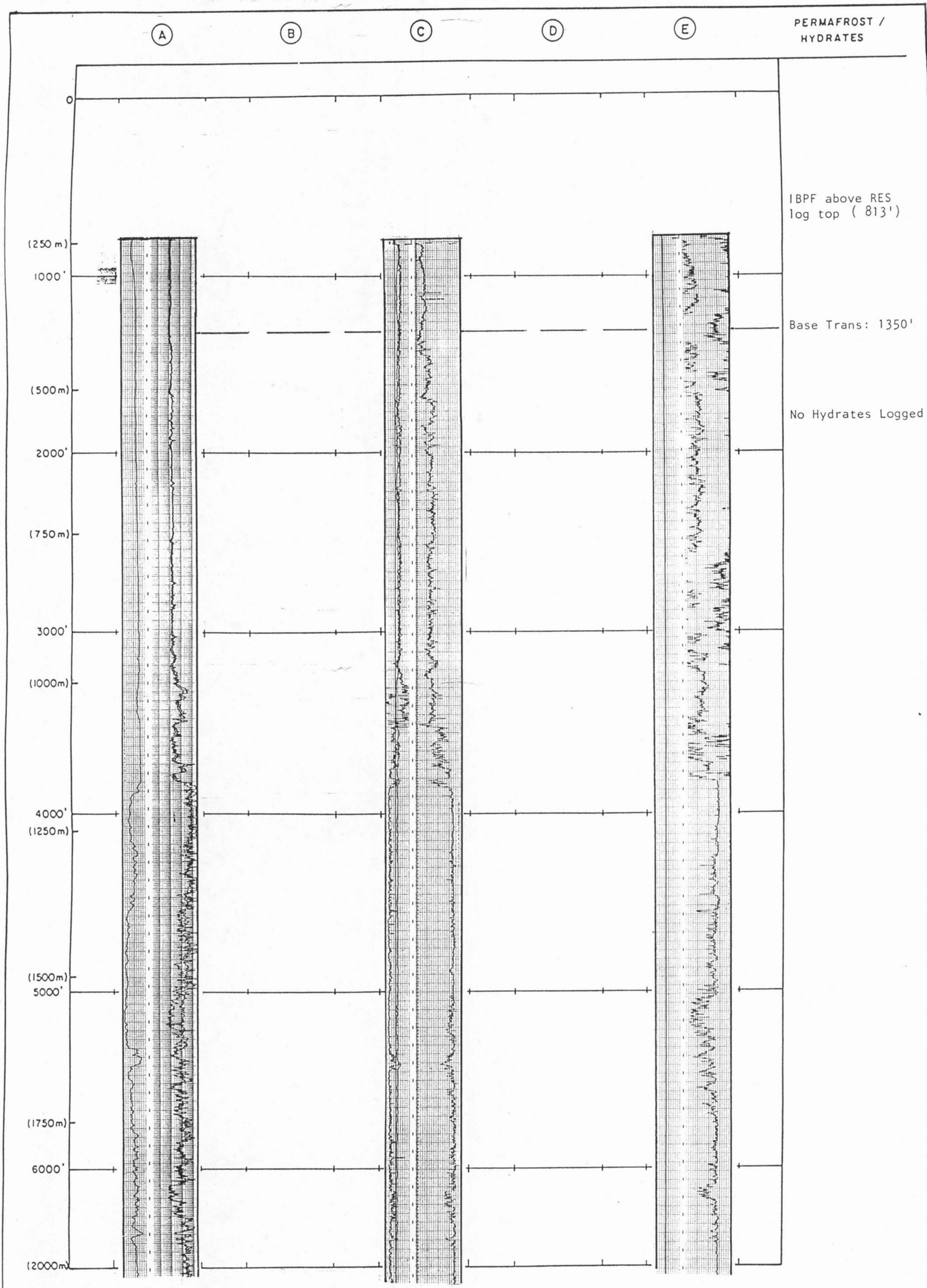
HARDY ASSOCIATES (1978) LTD.
CONSULTING ENGINEERING & PROFESSIONAL SERVICES

PERMAFROST / GAS HYDRATE STUDY
NORTHWEST TERRITORIES – YUKON

ARCTIC RED WEST G-55

CG10136

FIGURE 63



LOGS (LEFT TO RIGHT)

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

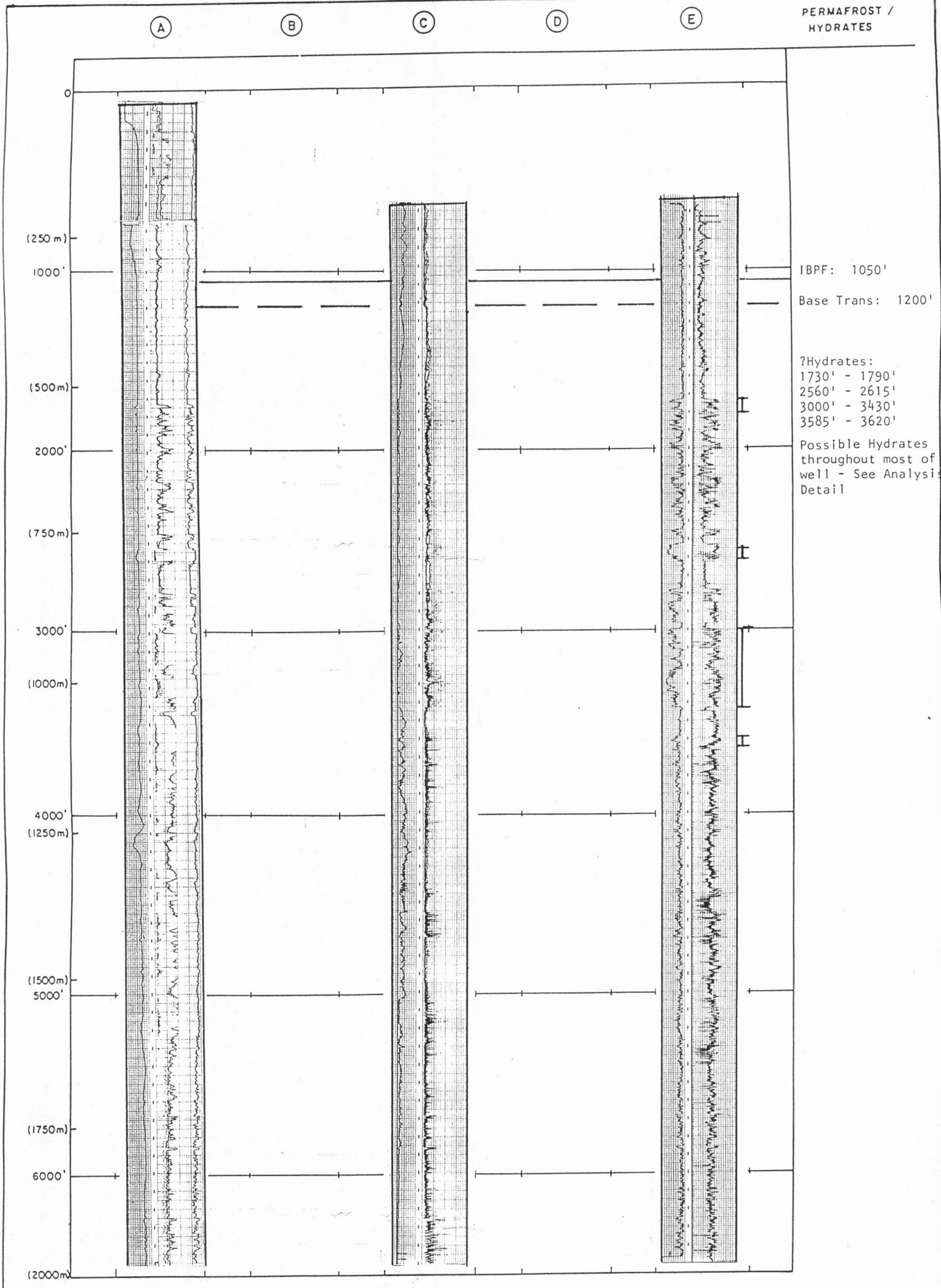
HARDY ASSOCIATES (1978) LTD.
CONSULTING ENGINEERING & PROFESSIONAL SERVICES

PERMAFROST / GAS HYDRATE STUDY
NORTHWEST TERRITORIES – YUKON

ARCTIC RED RIVER O - 27

CGI0136

FIGURE 64



LOGS (LEFT TO RIGHT)

- (A) IND E
- (B)
- (C) ML-C
- (D)
- (E) BHCS

HARDY ASSOCIATES (1978) LTD.
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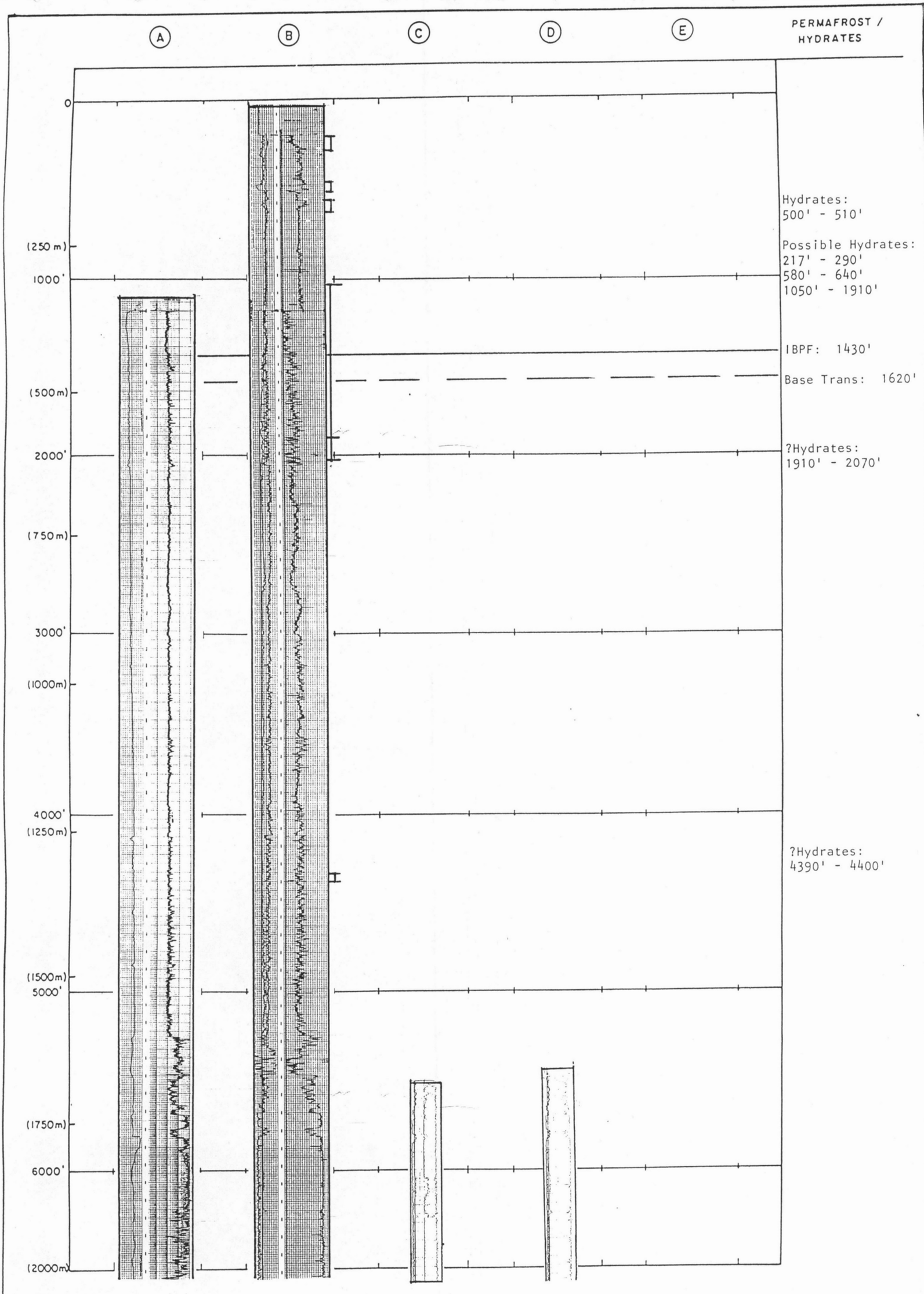
PERMAFROST / GAS HYDRATE STUDY
NORTHWEST TERRITORIES – YUKON

PEEL RIVER Y.T. L – 19

CGI0136

FIGURE 65



LOGS (LEFT TO RIGHT)

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

HARDY ASSOCIATES (1978) LTD.
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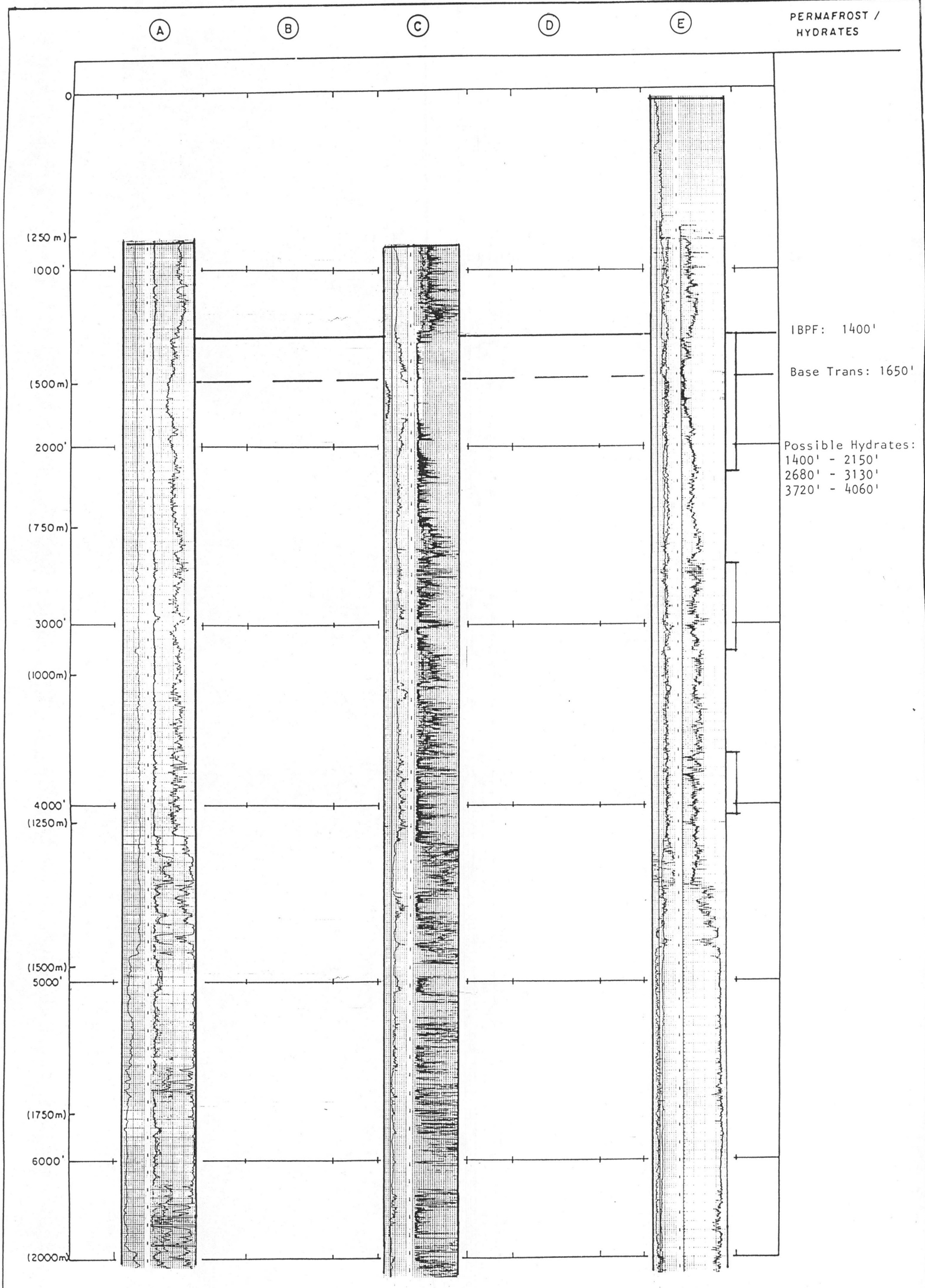
PERMAFROST / GAS HYDRATE STUDY
NORTHWEST TERRITORIES – YUKON

ARCTIC RED Y.T. C-60

CGI0136

FIGURE 66



LOGS (LEFT TO RIGHT)

- (A) IND E
- (B)
- (C) ML-C
- (D)
- (E) BHCS

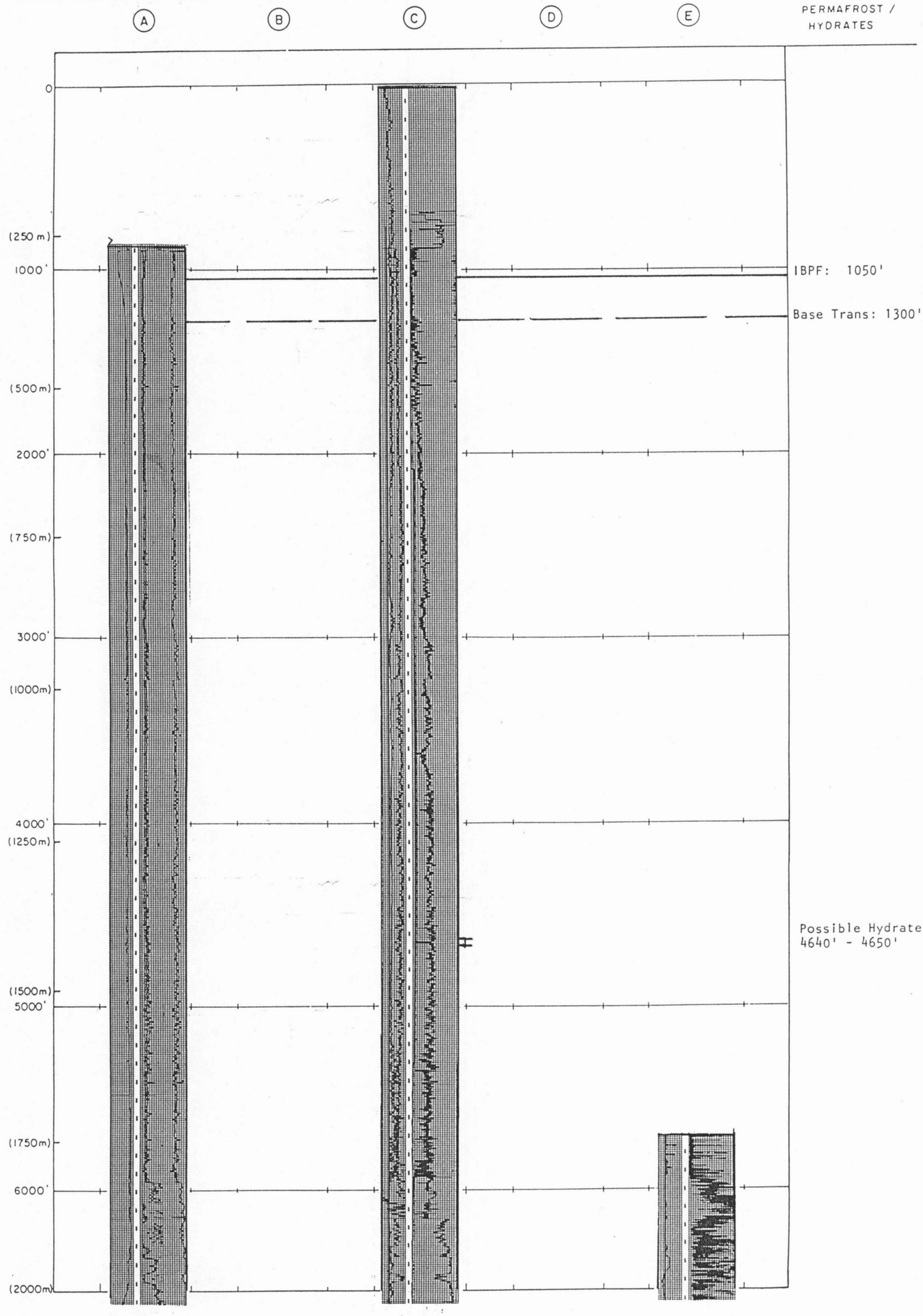
HARDY ASSOCIATES (1978) LTD.
CONSULTING ENGINEERING & PROFESSIONAL SERVICES

PERMAFROST / GAS HYDRATE STUDY
NORTHWEST TERRITORIES - YUKON

MARTIN HOUSE L-50

CGI0136

FIGURE 67



LOGS (LEFT TO RIGHT)

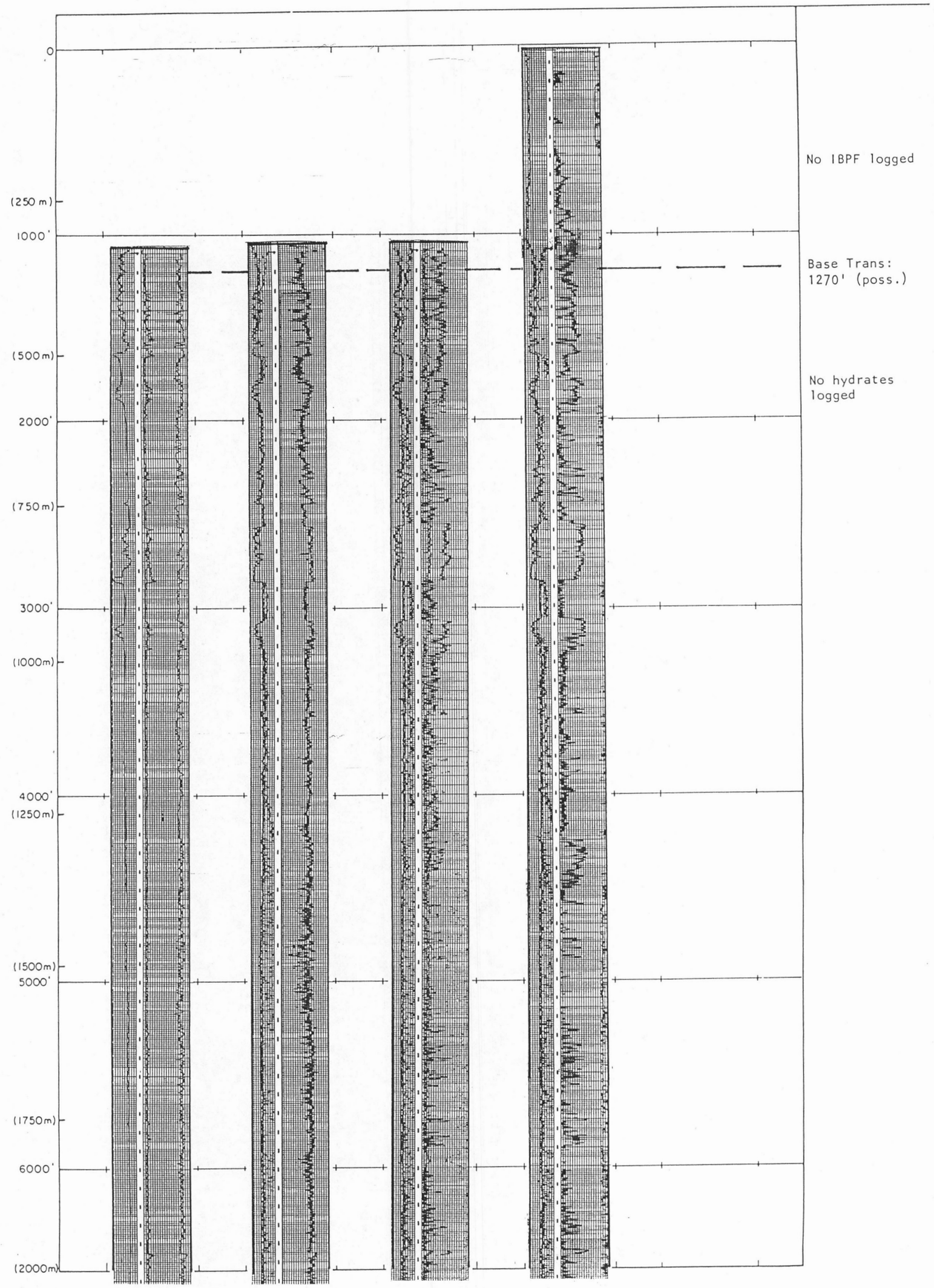
- (A) IND E
- (B)
- (C) BHCS
- (D)
- (E) ML-C

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

PERMAFROST / GAS HYDRATE STUDY
NORTHWEST TERRITORIES - YUKON
SATAH RIVER G-72

CG10136

FIGURE 68



LOGS (LEFT TO RIGHT)

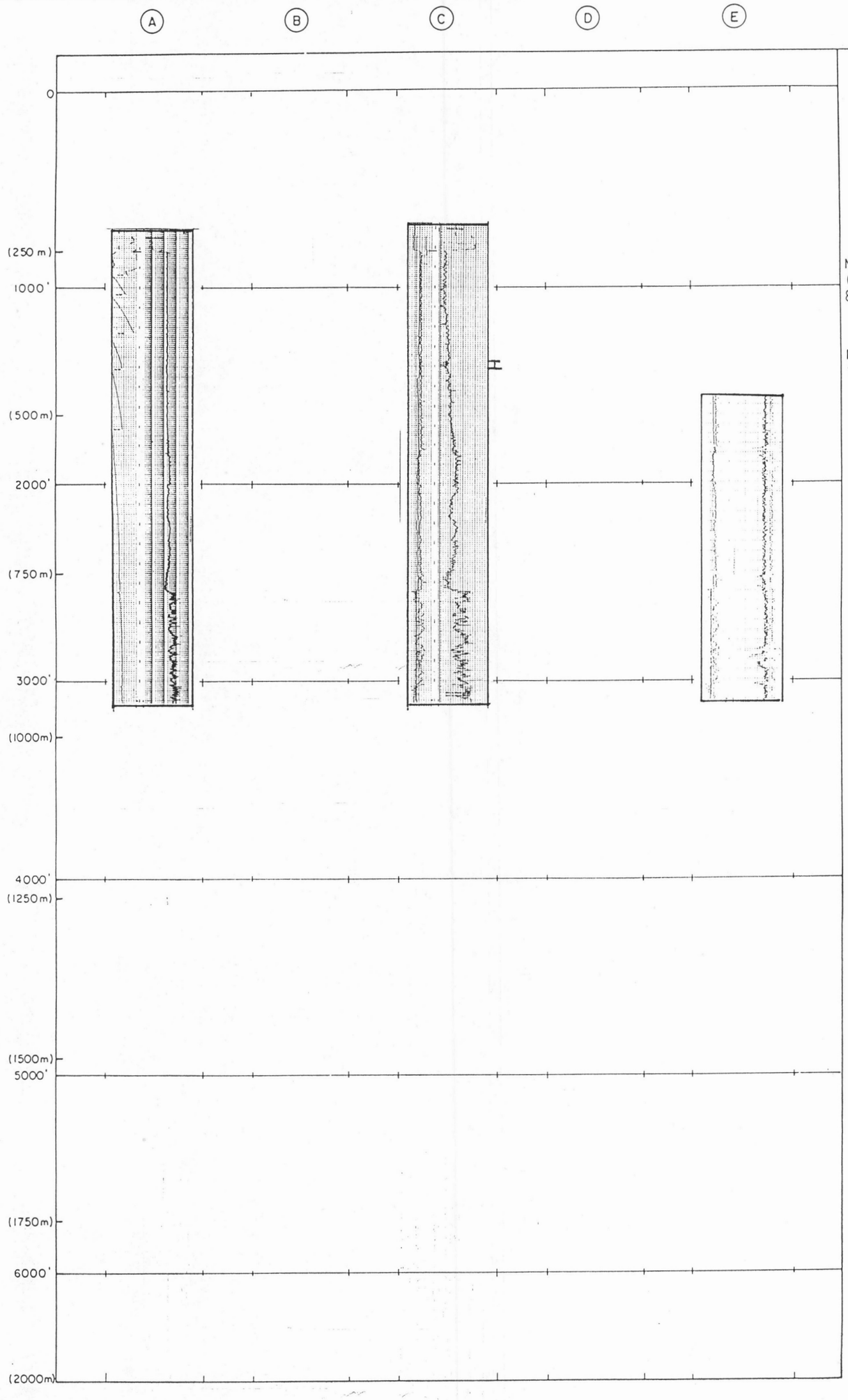
- (A) DIL
- (B) BHCS
- (C) FDEN
- (D) SNP
- (E)

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

PERMAFROST / GAS HYDRATE STUDY
NORTHWEST TERRITORIES - YUKON
PEEL Y.T. F-37

CGI0136

FIGURE 69



LOGS (LEFT TO RIGHT)

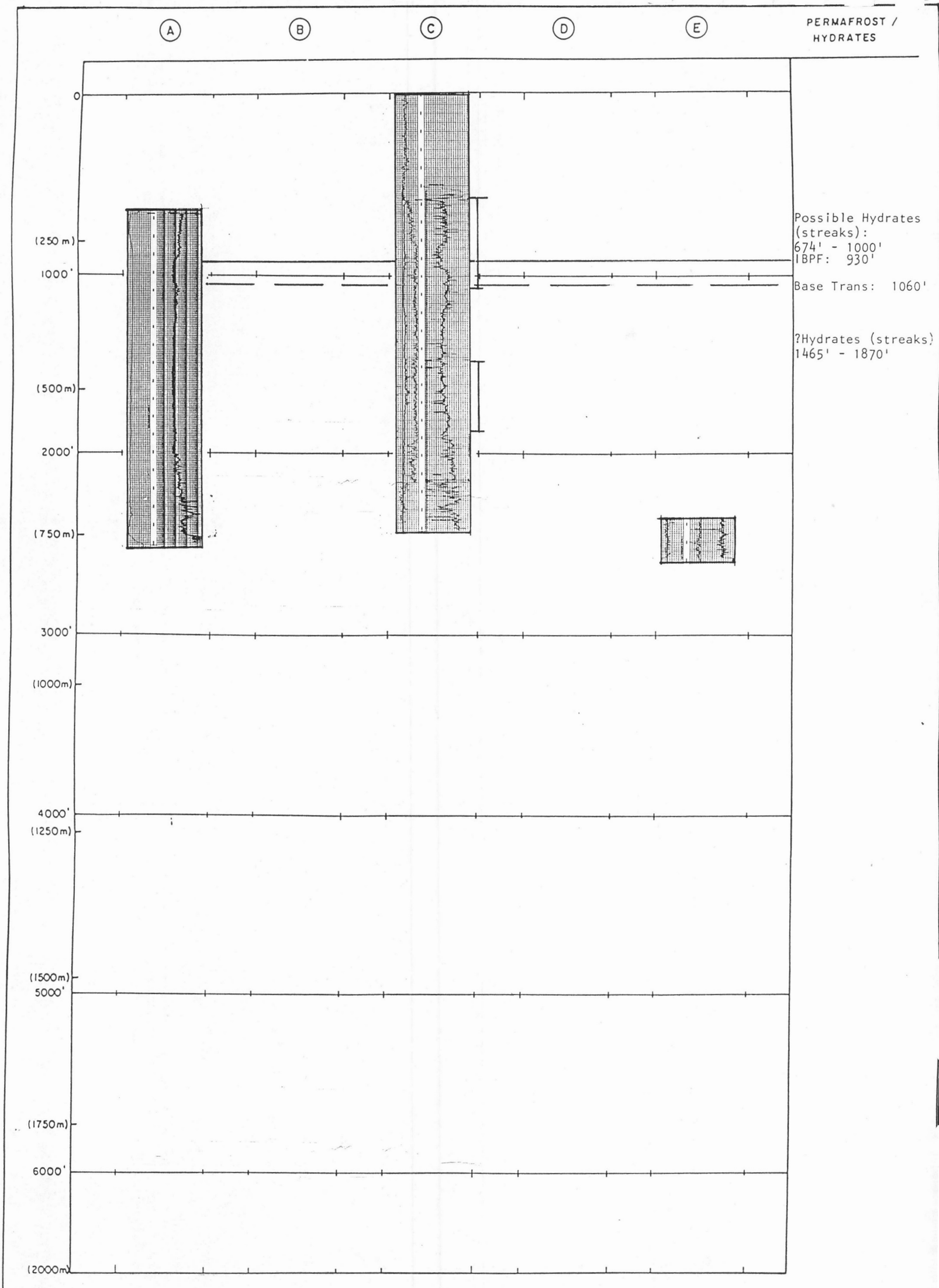
- (A) DIL
- (B)
- (C) BHCS
- (D)
- (E) FDEN

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

PERMAFROST / GAS HYDRATE STUDY
NORTHWEST TERRITORIES - YUKON
E. PINE Y.T. O-78

CGI0136

FIGURE 70



LOGS (LEFT TO RIGHT)

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

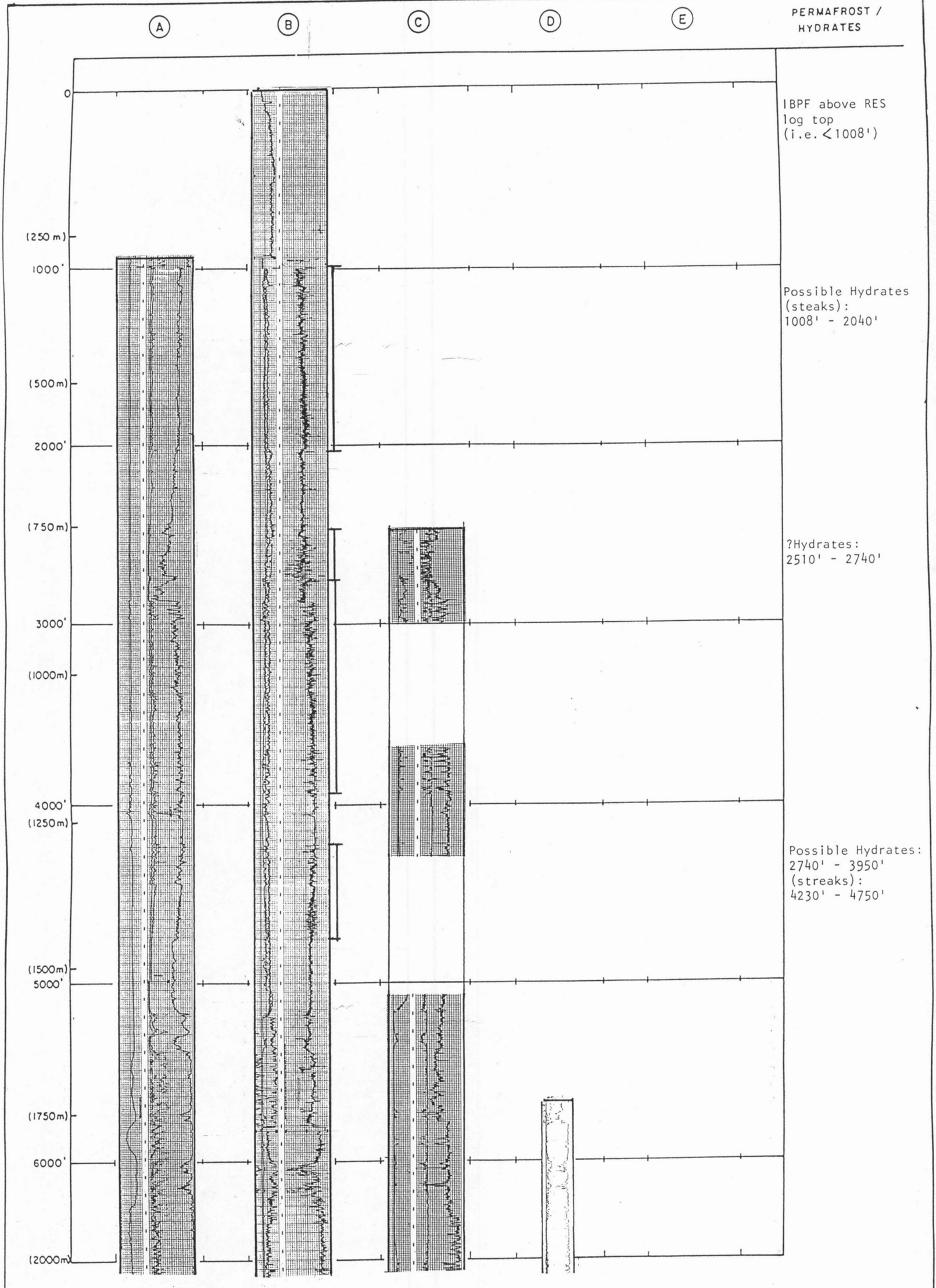
HARDY ASSOCIATES (1978) LTD.
CONSULTING ENGINEERING & PROFESSIONAL SERVICES

PERMAFROST / GAS HYDRATE STUDY
NORTHWEST TERRITORIES – YUKON

GREAT BEAR RIVER N – 30

CGI0136

FIGURE 71



LOGS (LEFT TO RIGHT)

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

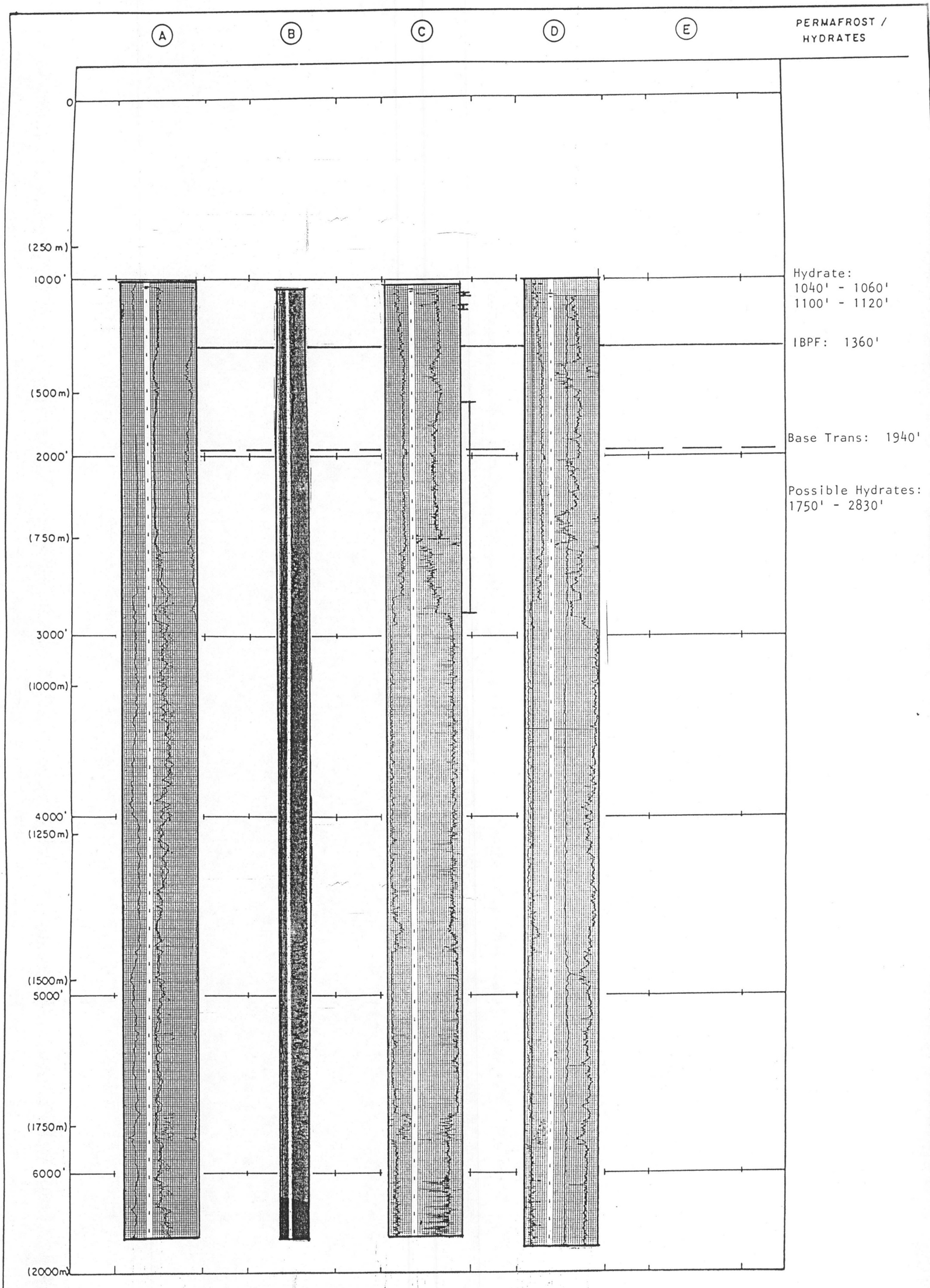
HARDY ASSOCIATES (1978) LTD.
CONSULTING ENGINEERING & PROFESSIONAL SERVICES

PERMAFROST / GAS HYDRATE STUDY
NORTHWEST TERRITORIES – YUKON

DODO CANYON K-03

CGIO136

FIGURE 72



LOGS (LEFT TO RIGHT)

- (A) IND E
- (B) MIN C
- (C) AC GR
- (D) DEN
- (E)

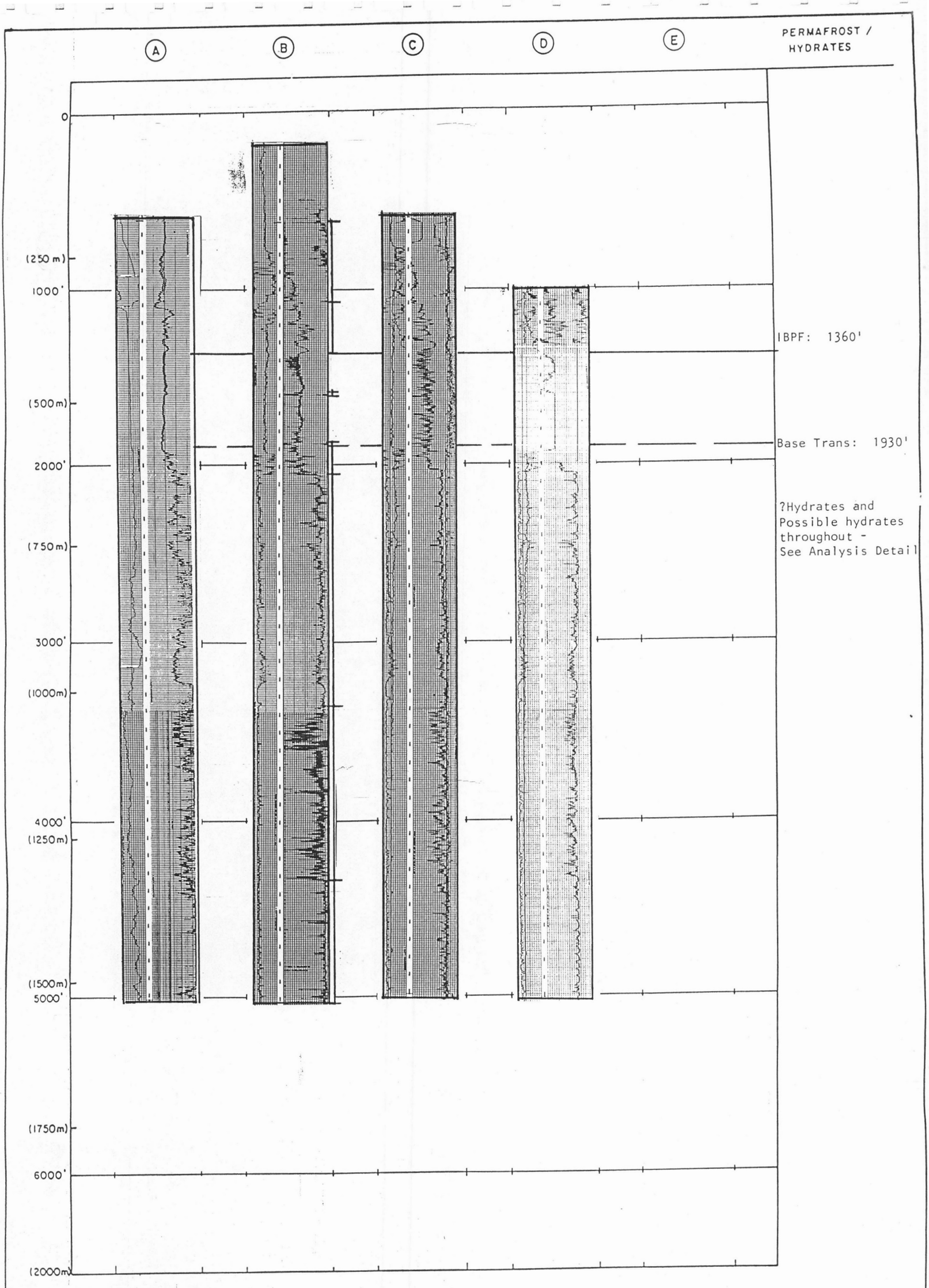
HARDY ASSOCIATES (1978) LTD.
CONSULTING ENGINEERING & PROFESSIONAL SERVICES

PERMAFROST / GAS HYDRATE STUDY
NORTHWEST TERRITORIES – YUKON

WOLVERINE CREEK D-61

CG10136

FIGURE 73



LOGS (LEFT TO RIGHT)

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

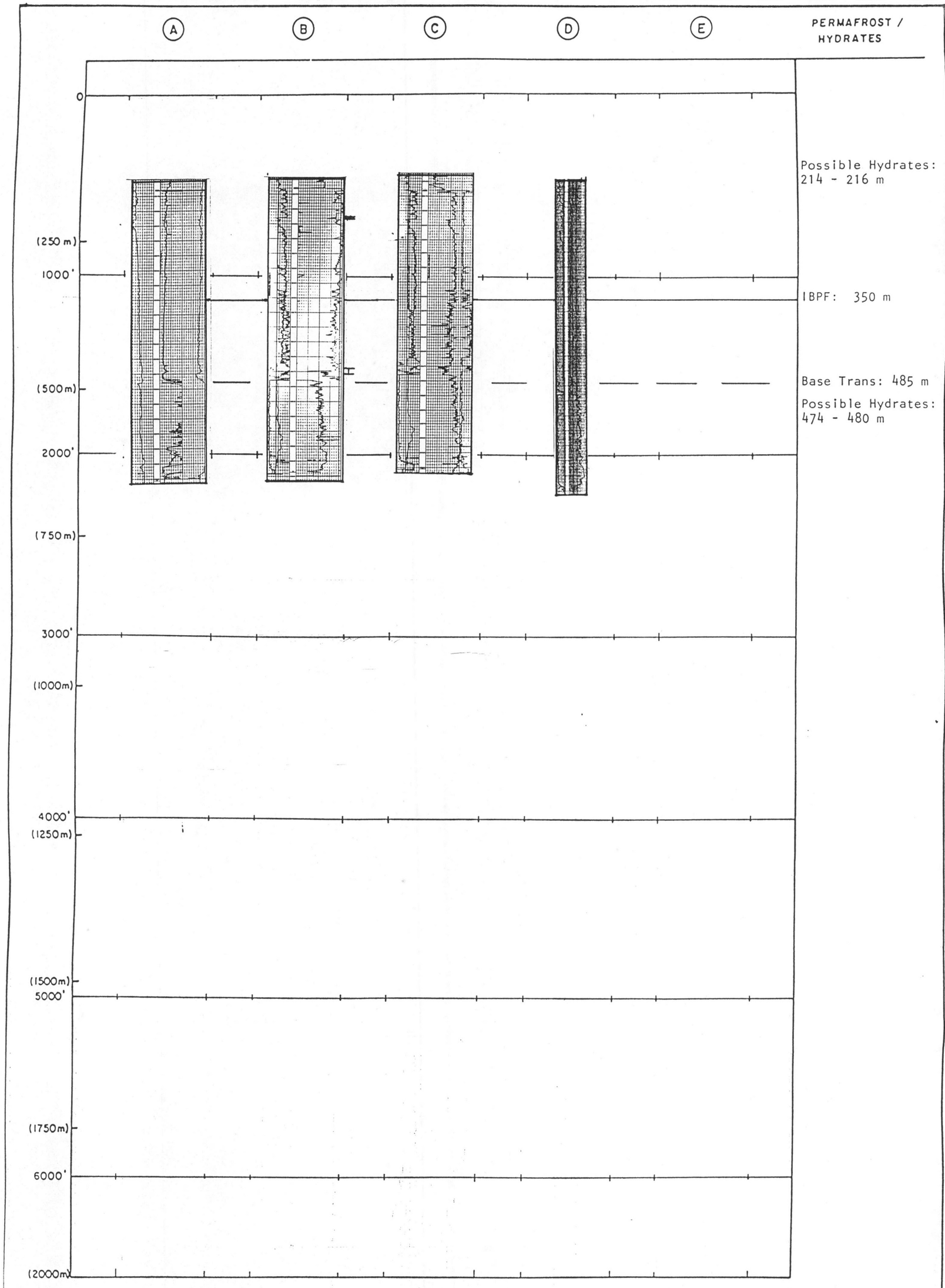
HARDY ASSOCIATES (1978) LTD.
CONSULTING ENGINEERING & PROFESSIONAL SERVICES

PERMAFROST / GAS HYDRATE STUDY
NORTHWEST TERRITORIES – YUKON

BRACKETT LAKE C-21

CGI0136

FIGURE 74



LOGS (LEFT TO RIGHT)

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

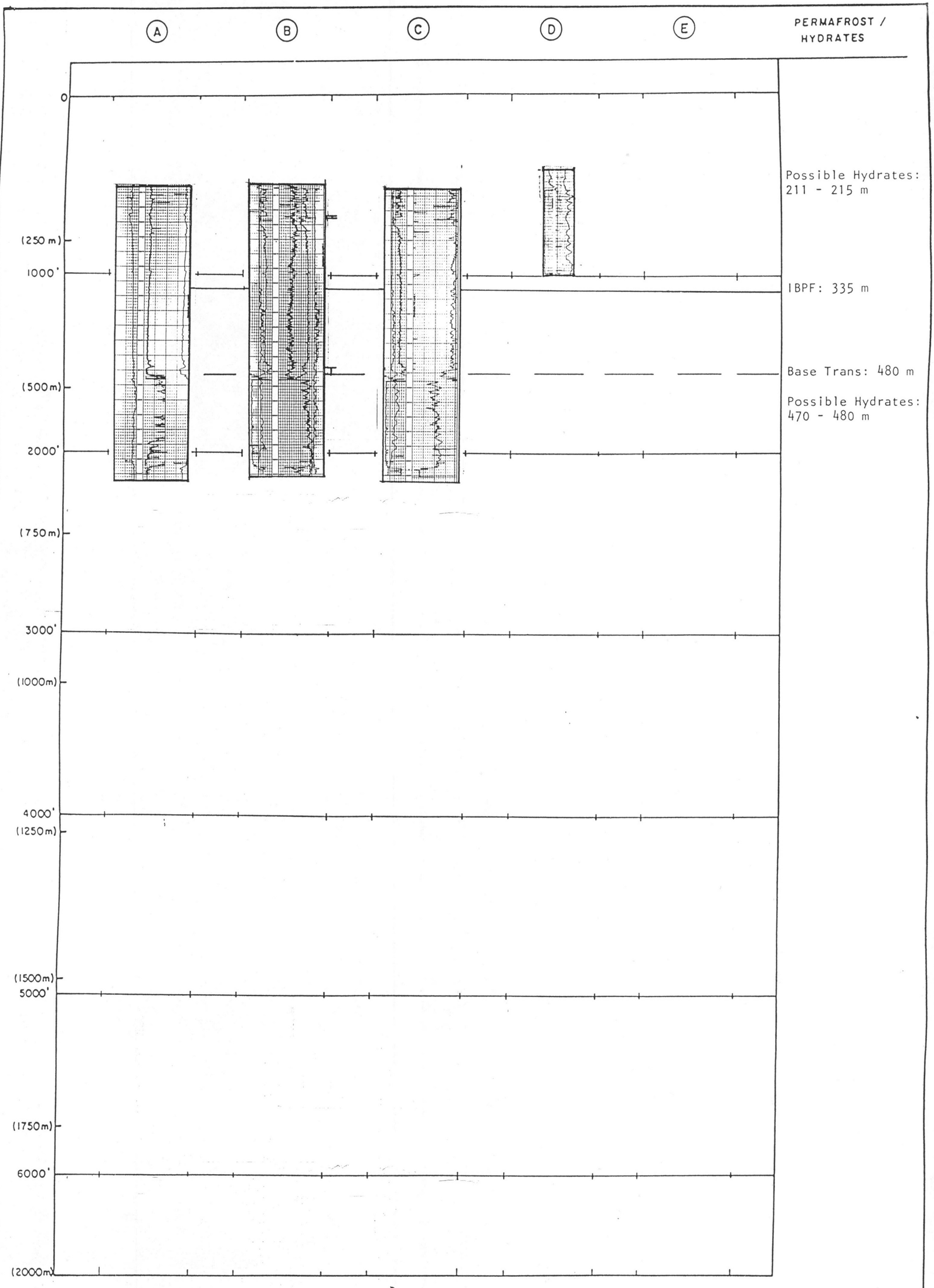
HARDY ASSOCIATES (1978) LTD.
CONSULTING ENGINEERING & PROFESSIONAL SERVICES

PERMAFROST / GAS HYDRATE STUDY
NORTHWEST TERRITORIES – YUKON

NORMAN WELLS N-27X

CGI0136

FIGURE 75



LOGS (LEFT TO RIGHT)

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

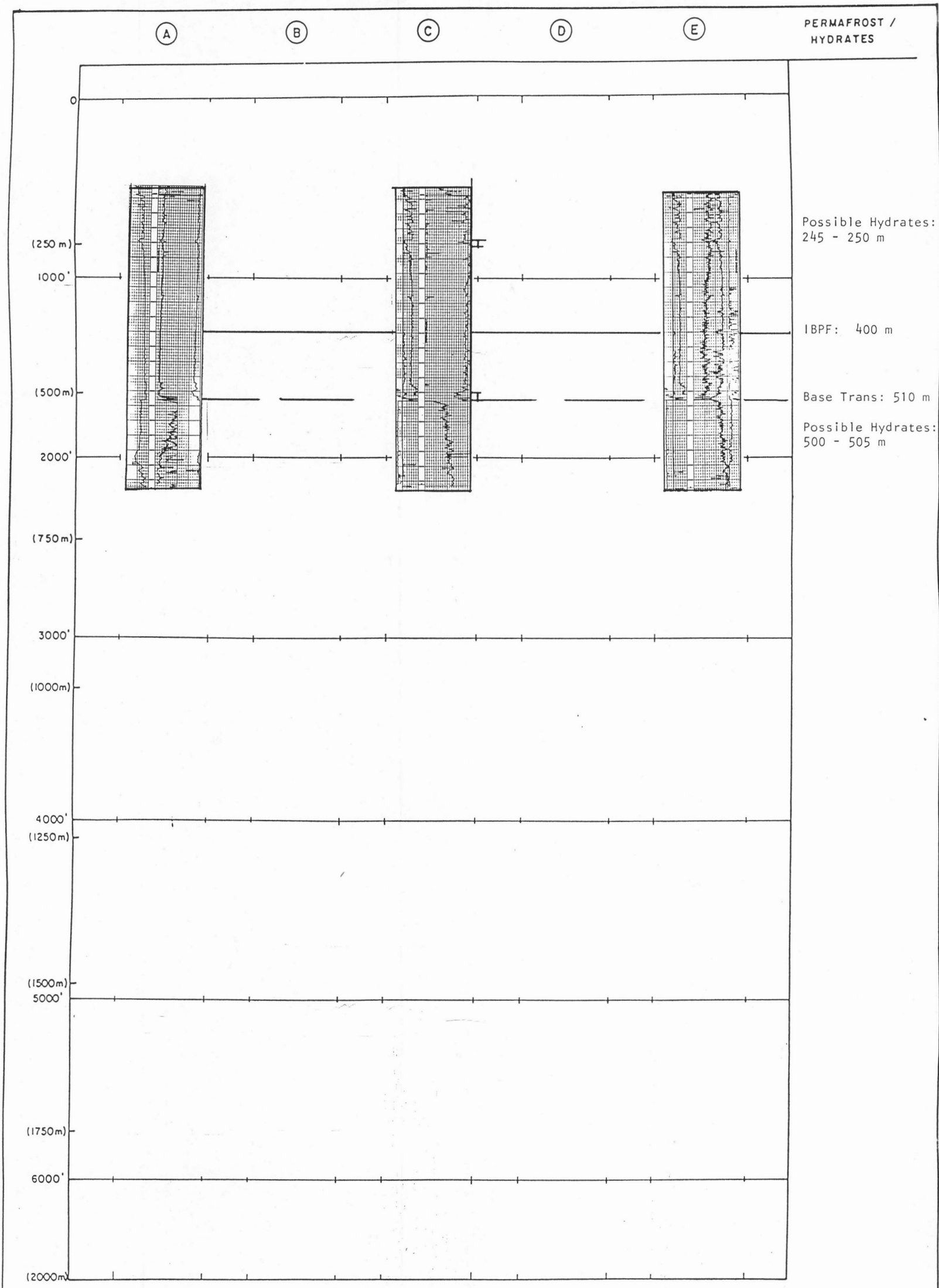
HARDY ASSOCIATES (1978) LTD.
CONSULTING ENGINEERING & PROFESSIONAL SERVICES

PERMAFROST / GAS HYDRATE STUDY
NORTHWEST TERRITORIES – YUKON

NORMAN WELLS N-25X

CG10136

FIGURE 76



LOGS (LEFT TO RIGHT)

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

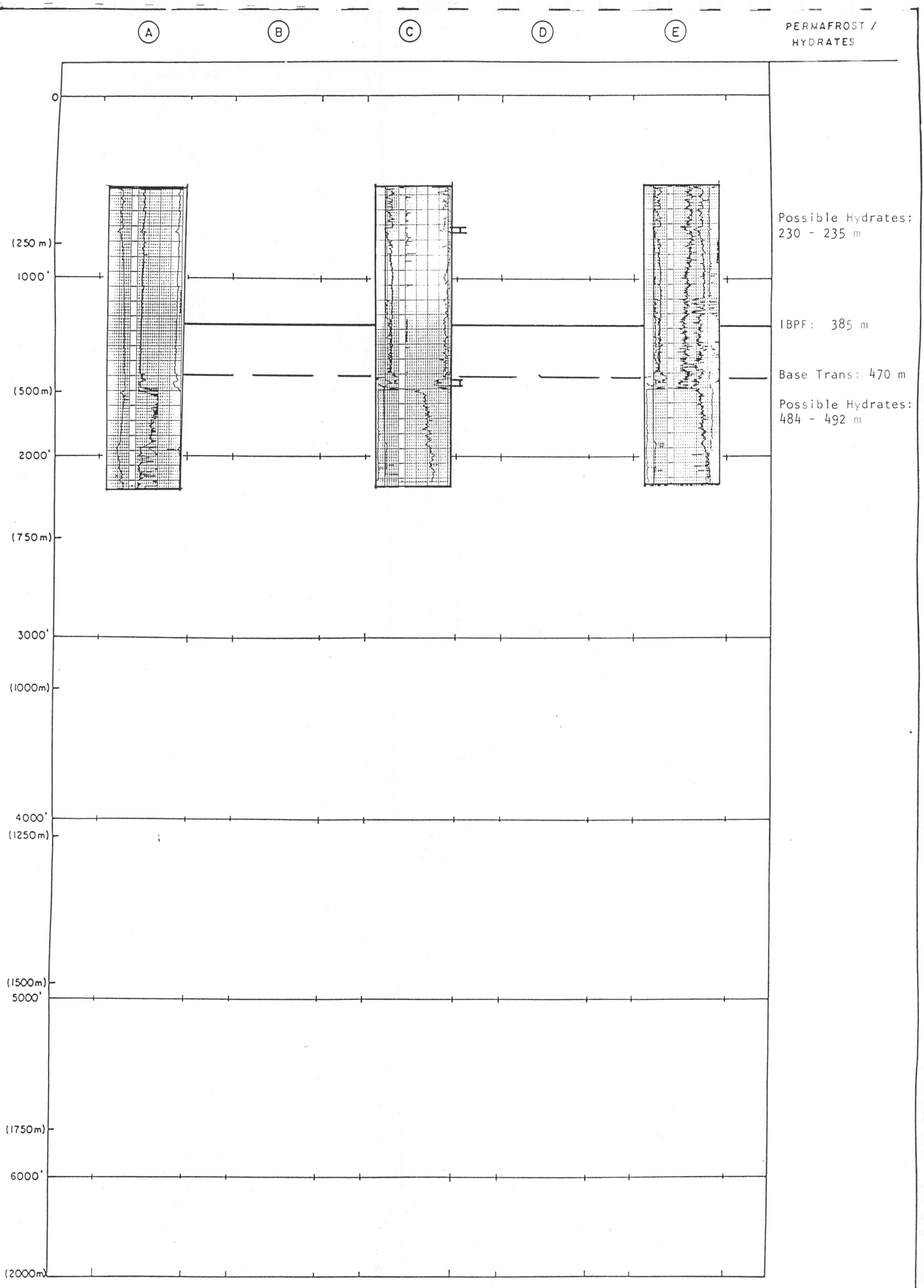
HARDY ASSOCIATES (1978) LTD.
CONSULTING ENGINEERING & PROFESSIONAL SERVICES

PERMAFROST / GAS HYDRATE STUDY
NORTHWEST TERRITORIES – YUKON

NORMAN WELLS P-19X

CGI0136

FIGURE 77



LOGS (LEFT TO RIGHT)

(A) DILL

(B)

(C) BHCS

(D)

(E) CDCN

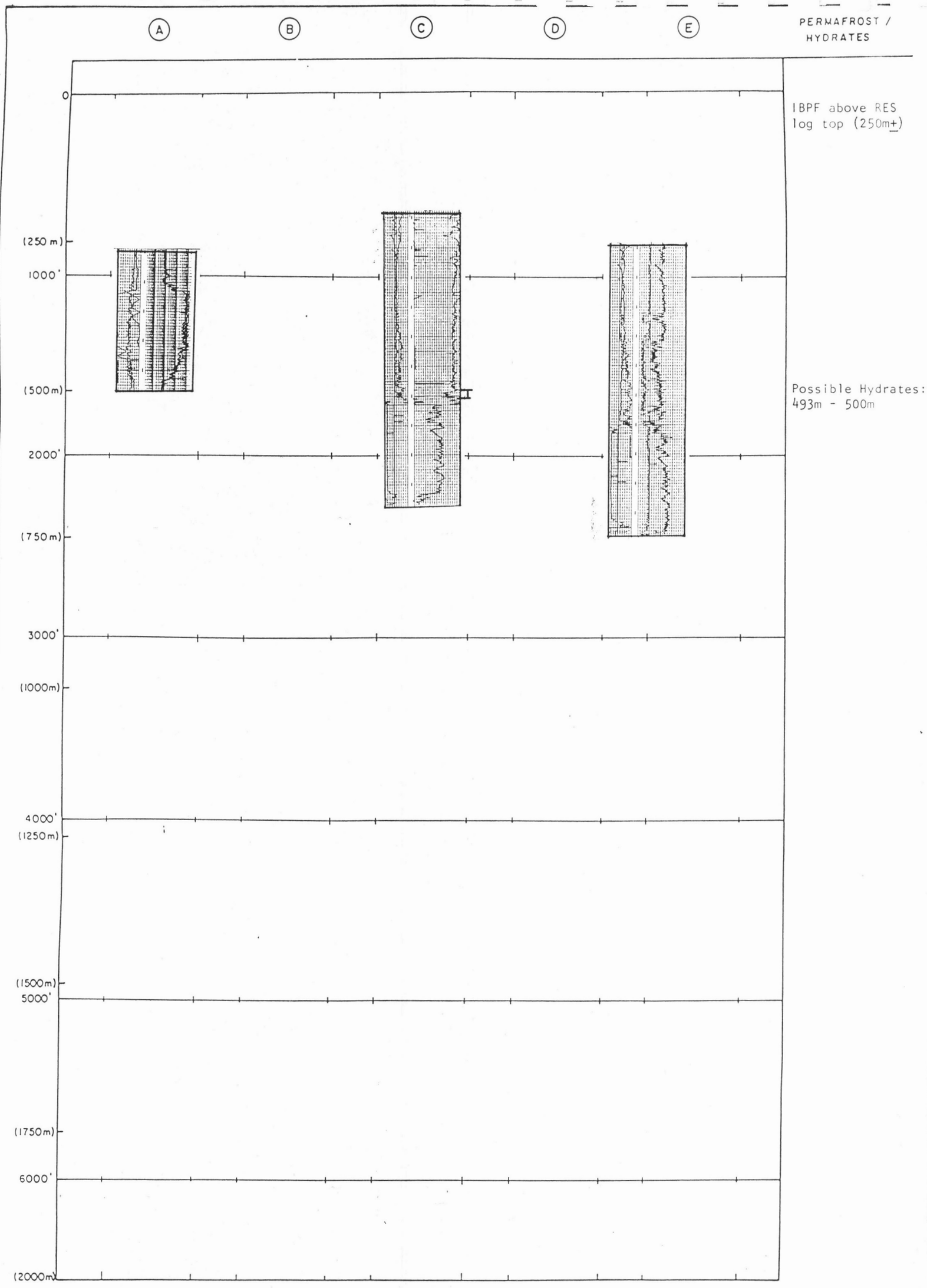
HARDY ASSOCIATES (1978) LTD.
CONSULTING ENGINEERING & PROFESSIONAL SERVICES

PERMAFROST / GAS HYDRATE STUDY
NORTHWEST TERRITORIES - YUKON

NORMAN WELLS P-15X

CGI0136

FIGURE 78



LOGS (LEFT TO RIGHT)

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

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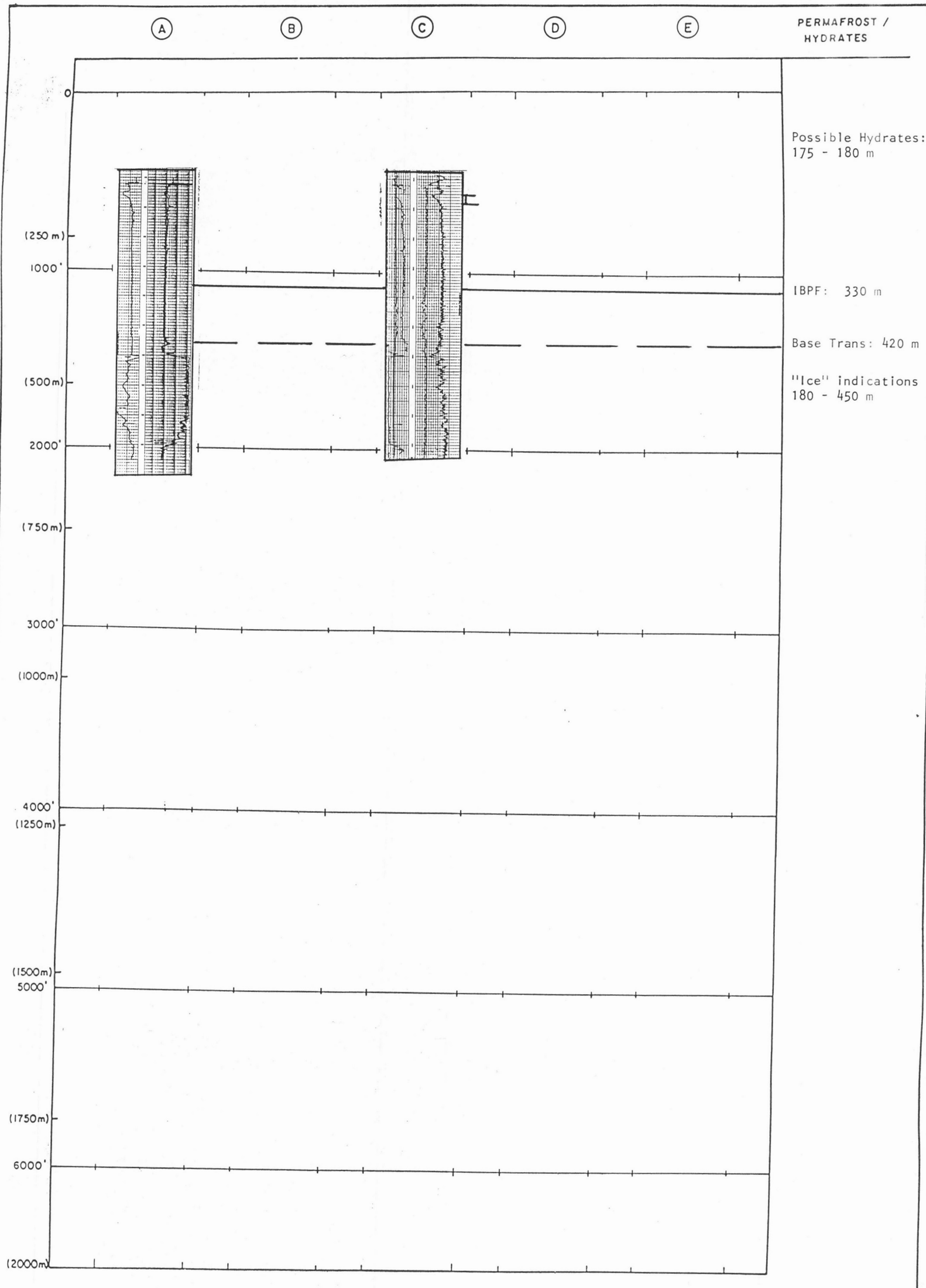
PERMAFROST / GAS HYDRATE STUDY
NORTHWEST TERRITORIES - YUKON

BEAR ISLAND No. 22

CGI0136

FIGURE 79



LOGS (LEFT TO RIGHT)

Ⓐ DI-SFL

Ⓑ

Ⓒ CNFD

Ⓓ

Ⓔ

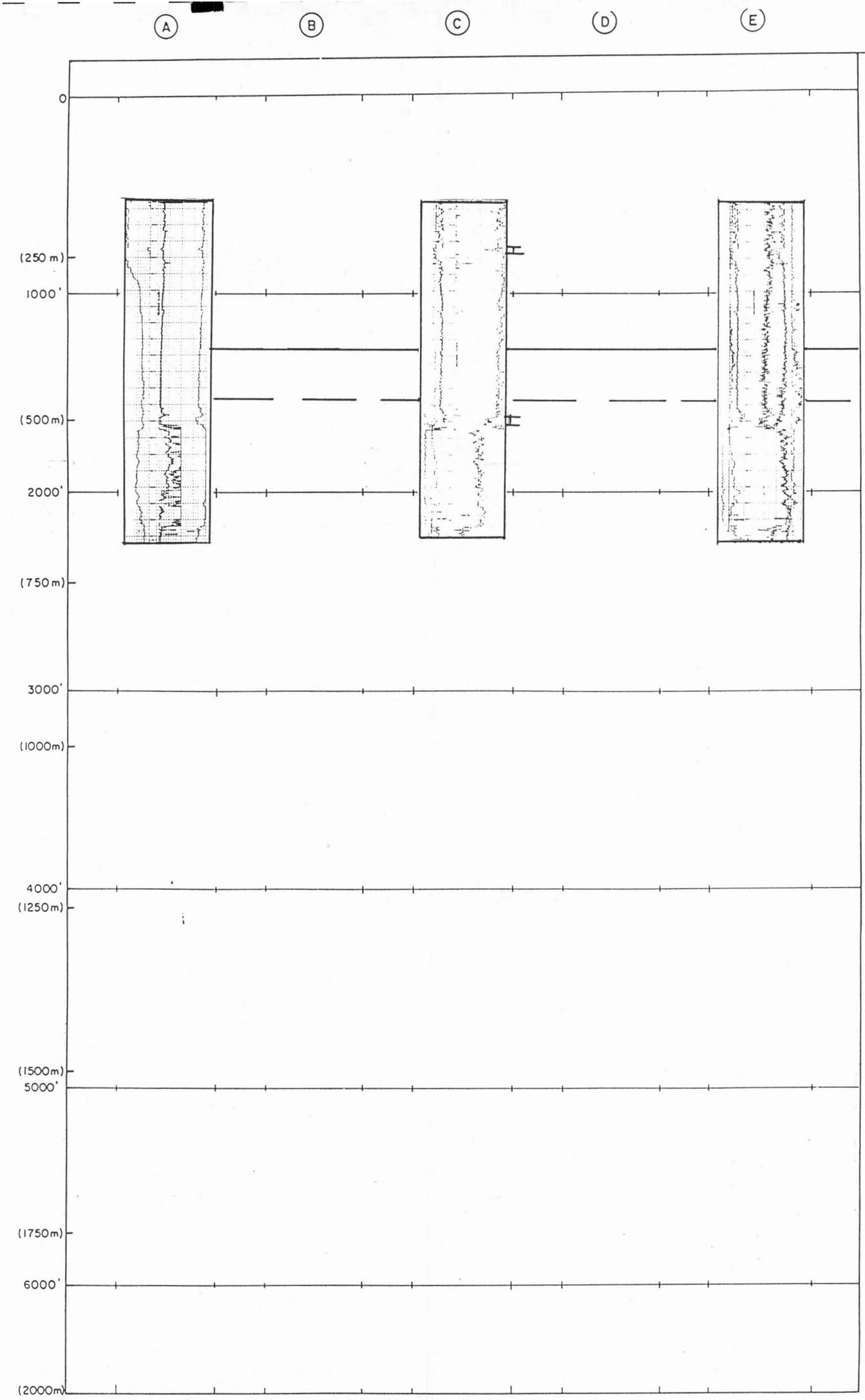
HARDY ASSOCIATES (1978) LTD.
CONSULTING ENGINEERING & PROFESSIONAL SERVICES

PERMAFROST / GAS HYDRATE STUDY
NORTHWEST TERRITORIES – YUKON

MACKENZIE RIVER No I

CG10136

FIGURE 80



LOGS (LEFT TO RIGHT)

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

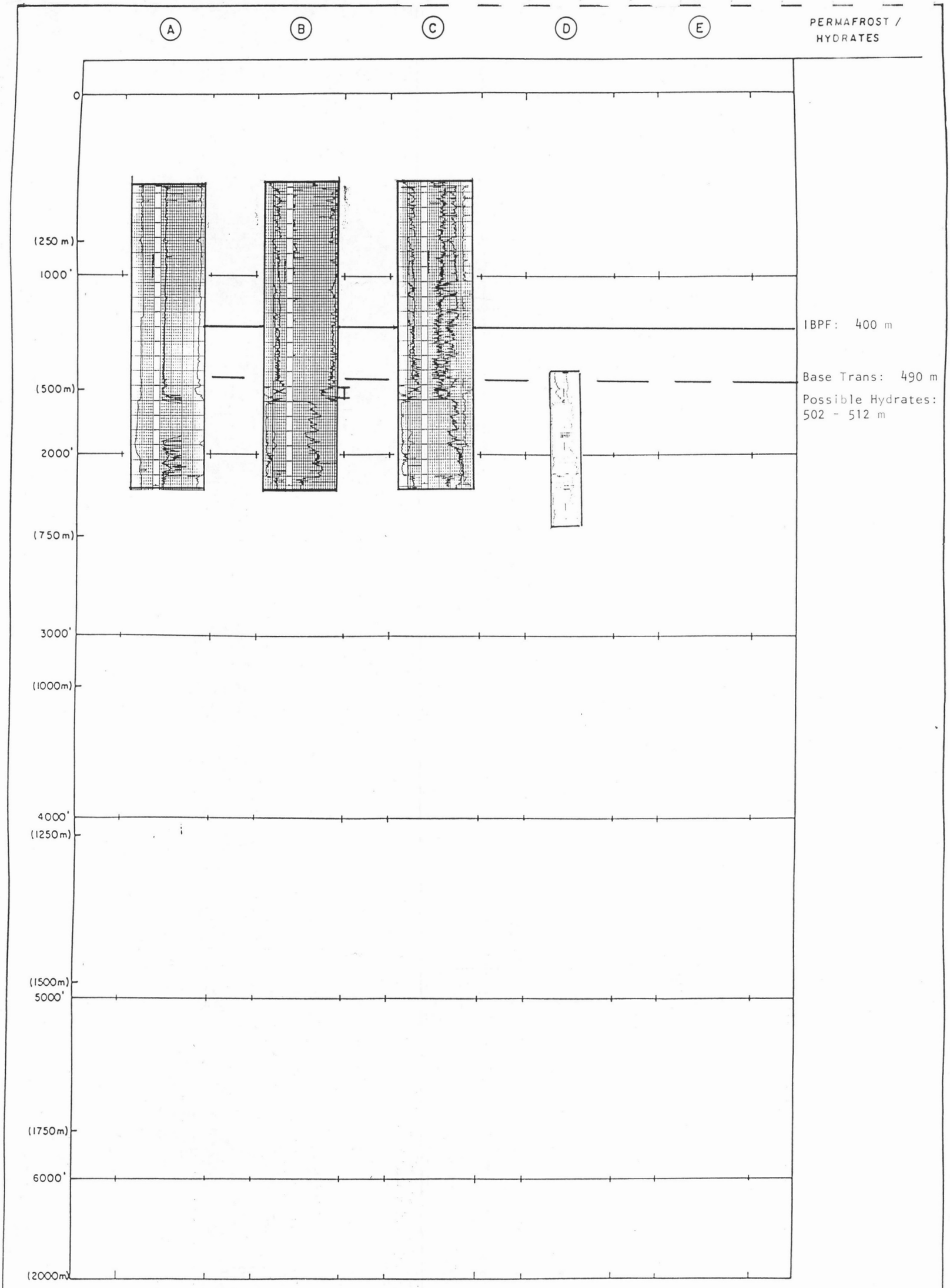
HARDY ASSOCIATES (1978) LTD.
CONSULTING ENGINEERING & PROFESSIONAL SERVICES

PERMAFROST / GAS HYDRATE STUDY
NORTHWEST TERRITORIES - YUKON

NORMAN WELLS O-23X

CGI0136

FIGURE 81



LOGS (LEFT TO RIGHT)

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

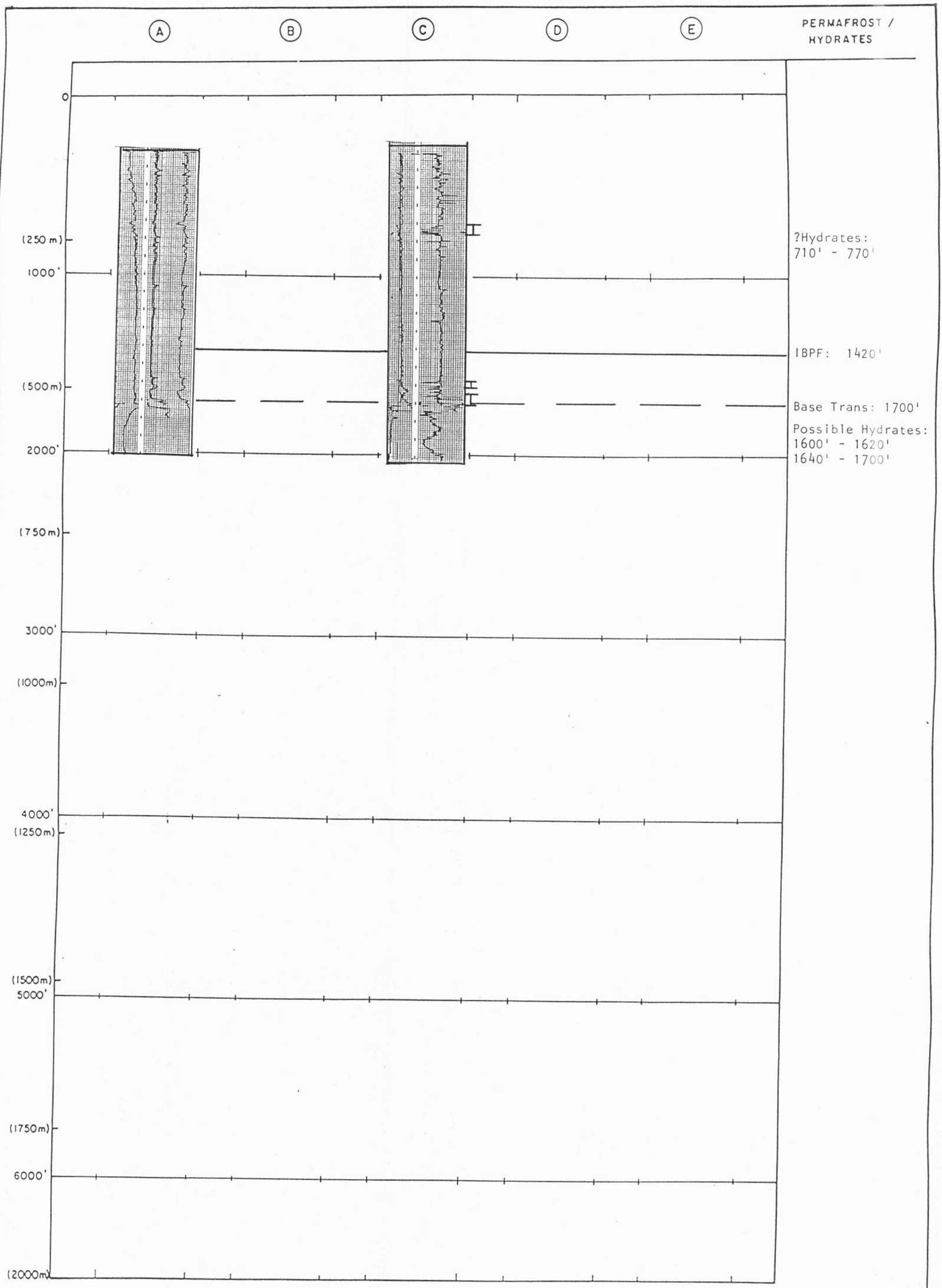
HARDY ASSOCIATES (1978) LTD.
CONSULTING ENGINEERING & PROFESSIONAL SERVICES

PERMAFROST / GAS HYDRATE STUDY
NORTHWEST TERRITORIES - YUKON

NORMAN WELLS P-09X

CGI0136

FIGURE 82



LOGS (LEFT TO RIGHT)

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

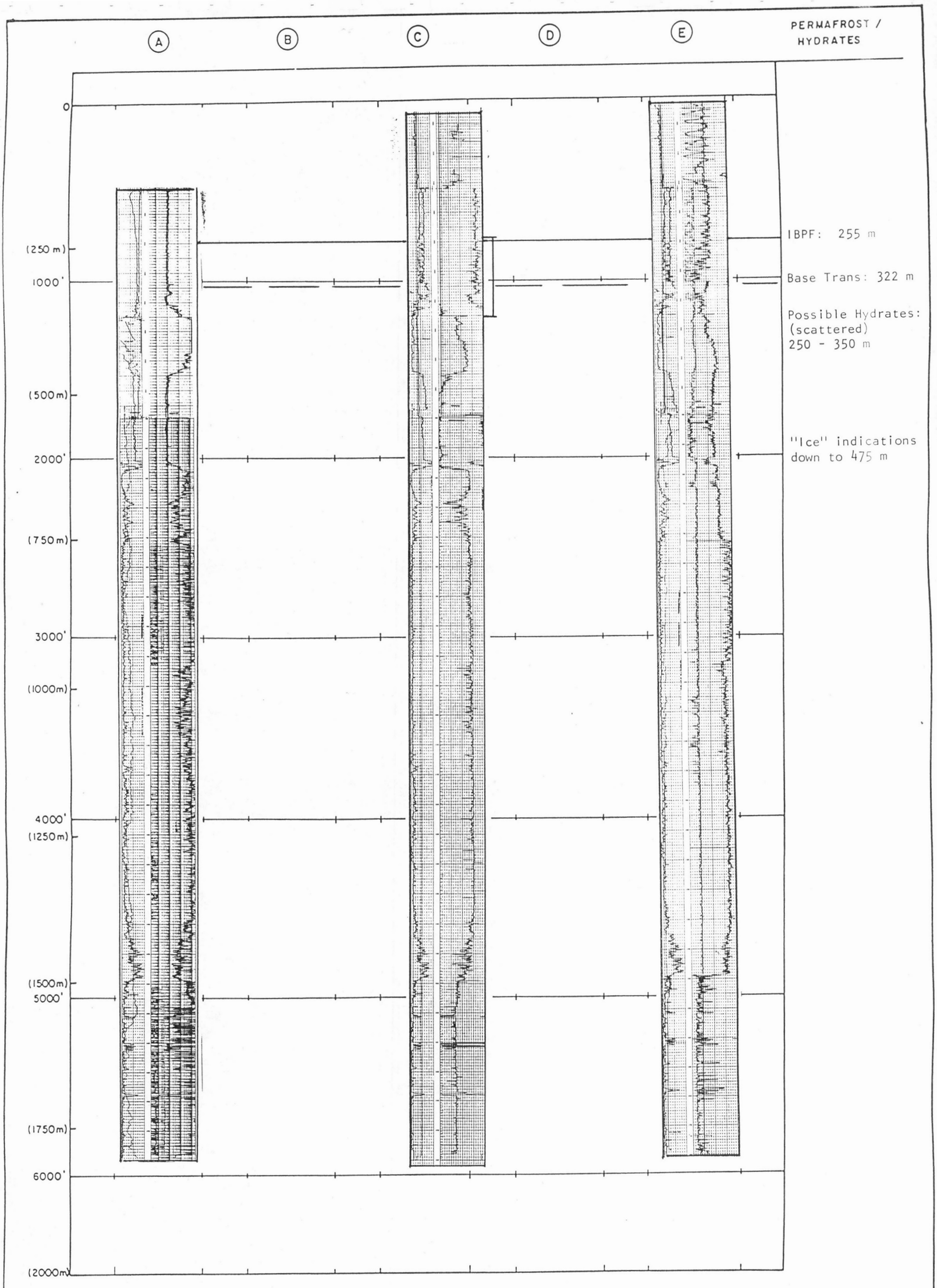
HARDY ASSOCIATES (1978) LTD.
CONSULTING ENGINEERING & PROFESSIONAL SERVICES

PERMAFROST / GAS HYDRATE STUDY
NORTHWEST TERRITORIES - YUKON

GOOSE ISLAND (No. 20) L-57

CGI0136

FIGURE 83



LOGS (LEFT TO RIGHT)

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

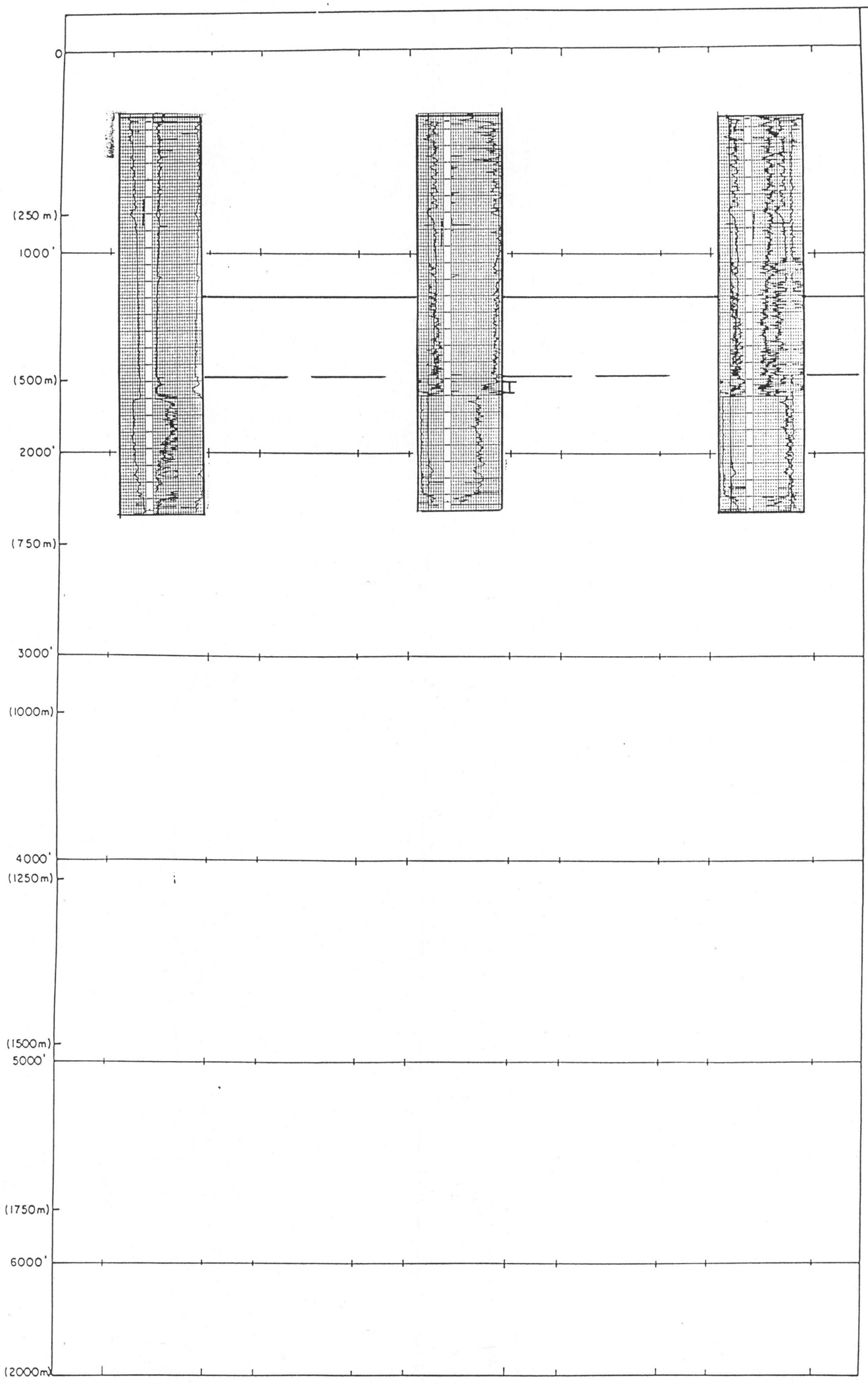
HARDY ASSOCIATES (1978) LTD.
CONSULTING ENGINEERING & PROFESSIONAL SERVICES

PERMAFROST / GAS HYDRATE STUDY
NORTHWEST TERRITORIES - YUKON

NORMAN WELLS 36X

CGI0136

FIGURE 84



LOGS (LEFT TO RIGHT)

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

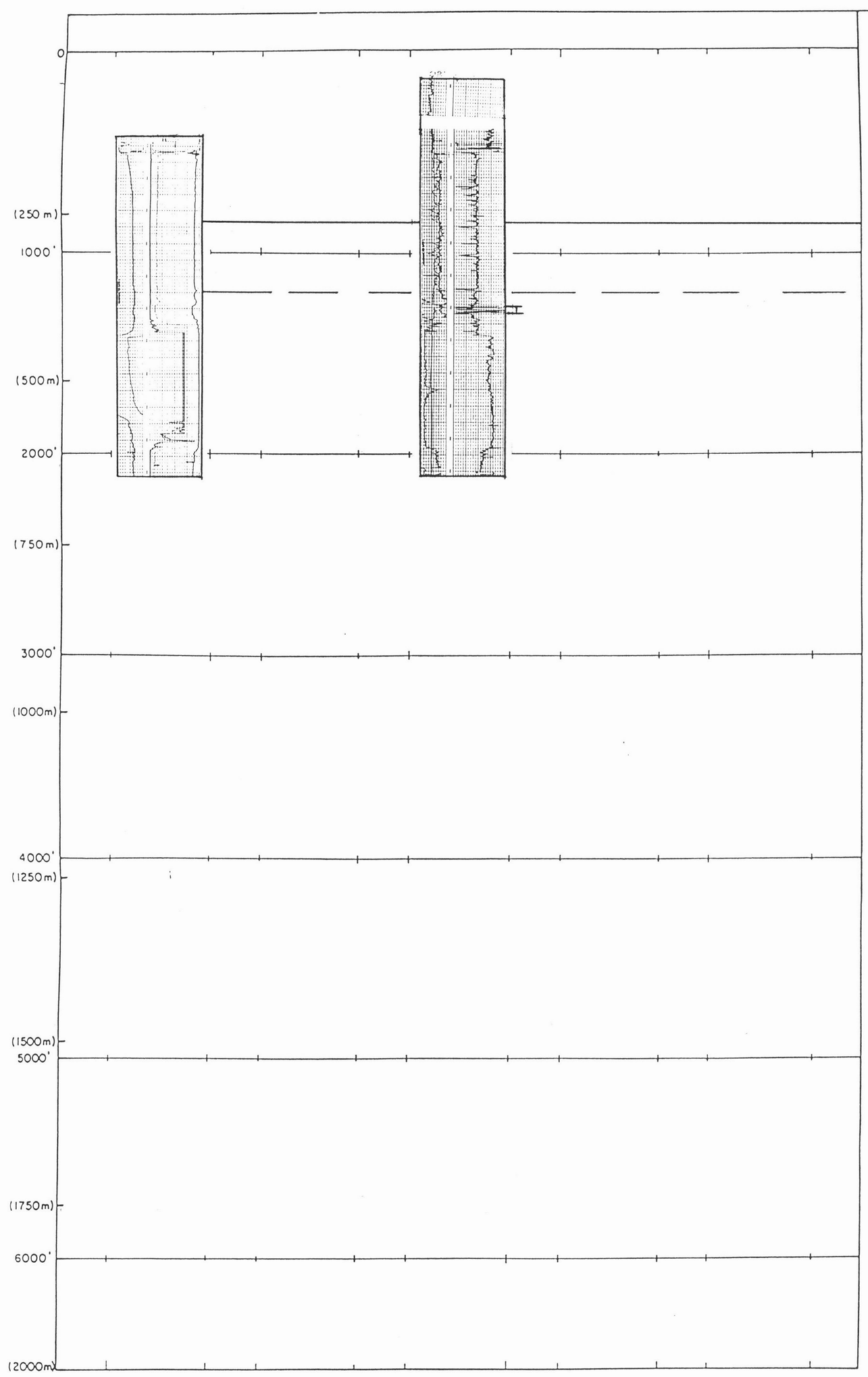
HARDY ASSOCIATES (1978) LTD.
CONSULTING ENGINEERING & PROFESSIONAL SERVICES

PERMAFROST / GAS HYDRATE STUDY
NORTHWEST TERRITORIES – YUKON

NORMAN WELLS O-36X

CGI0136

FIGURE 84A



LOGS (LEFT TO RIGHT)

- (A) DI-SFL
- (B)
- (C) BHCS
- (D)
- (E)

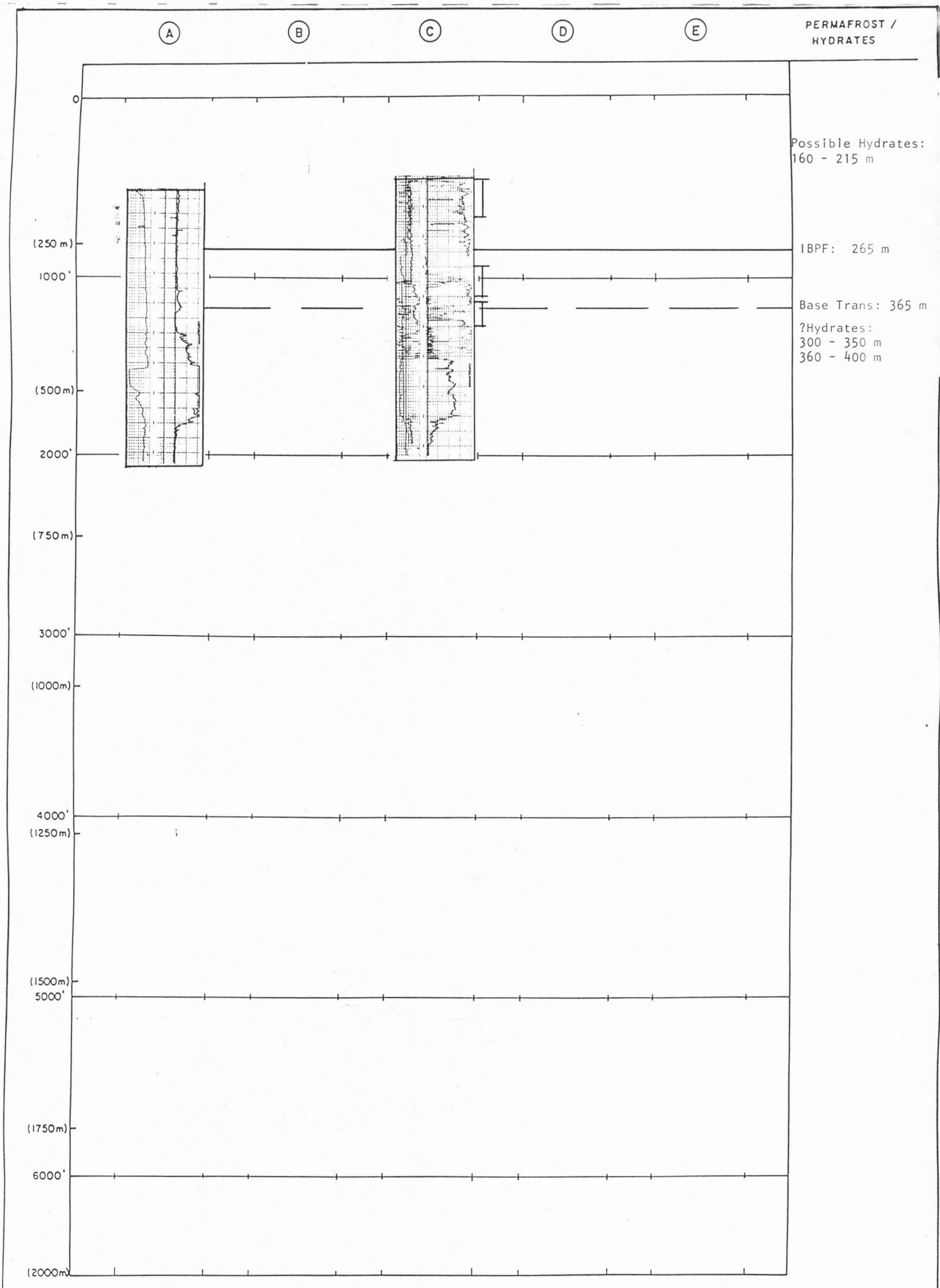
HARDY ASSOCIATES (1978) LTD.
CONSULTING ENGINEERING & PROFESSIONAL SERVICES

PERMAFROST / GAS HYDRATE STUDY
NORTHWEST TERRITORIES - YUKON

NORMAN WELLS 44X

CG10136

FIGURE 85



LOGS (LEFT TO RIGHT)

- (A) DI-SFL
- (B)
- (C) BHCS
- (D)
- (E)

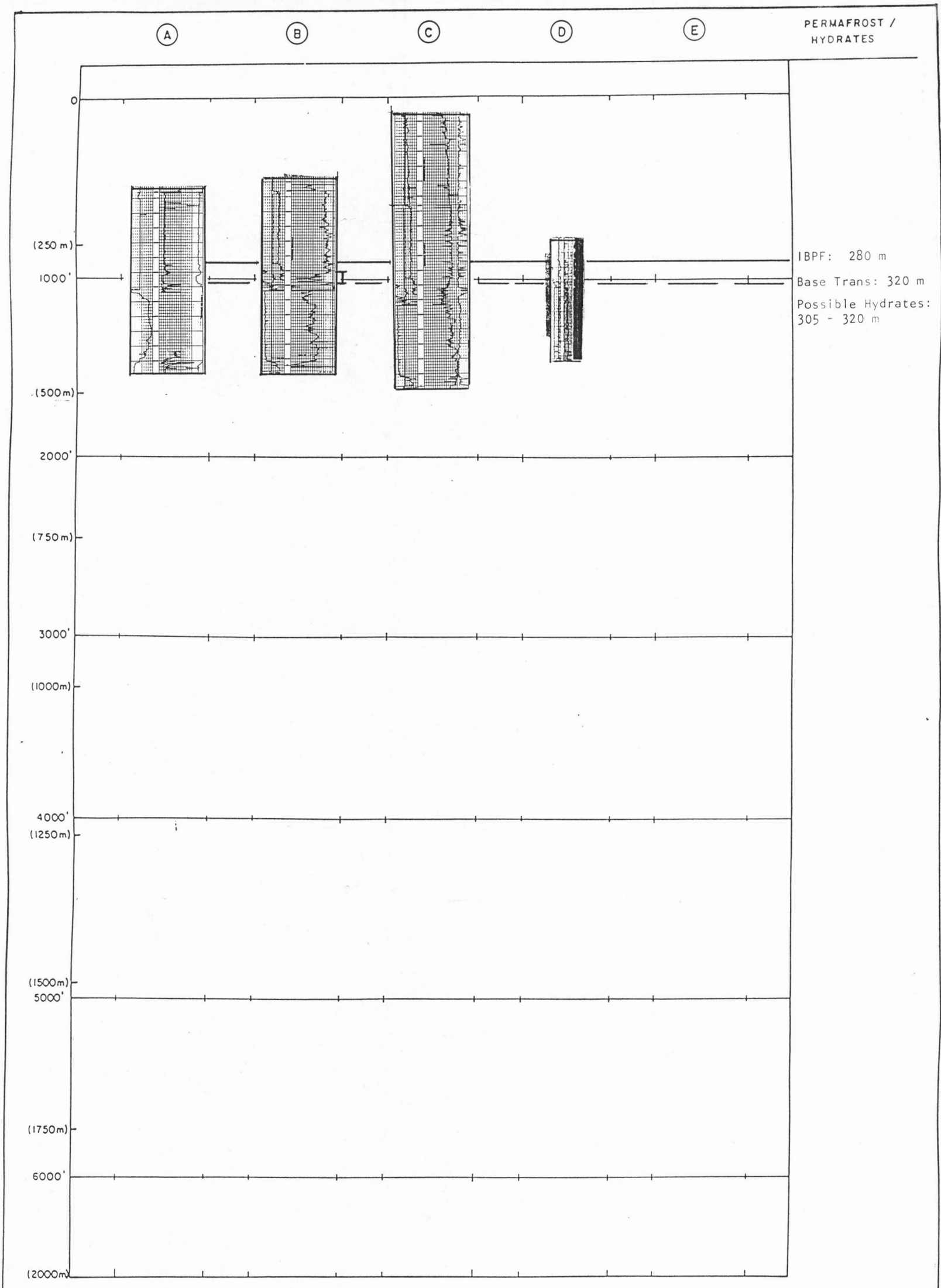
HARDY ASSOCIATES (1978) LTD.
CONSULTING ENGINEERING & PROFESSIONAL SERVICES

PERMAFROST / GAS HYDRATE STUDY
NORTHWEST TERRITORIES – YUKON

NORMAN WELLS 45X

CG10136

FIGURE 86



LOGS (LEFT TO RIGHT)

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

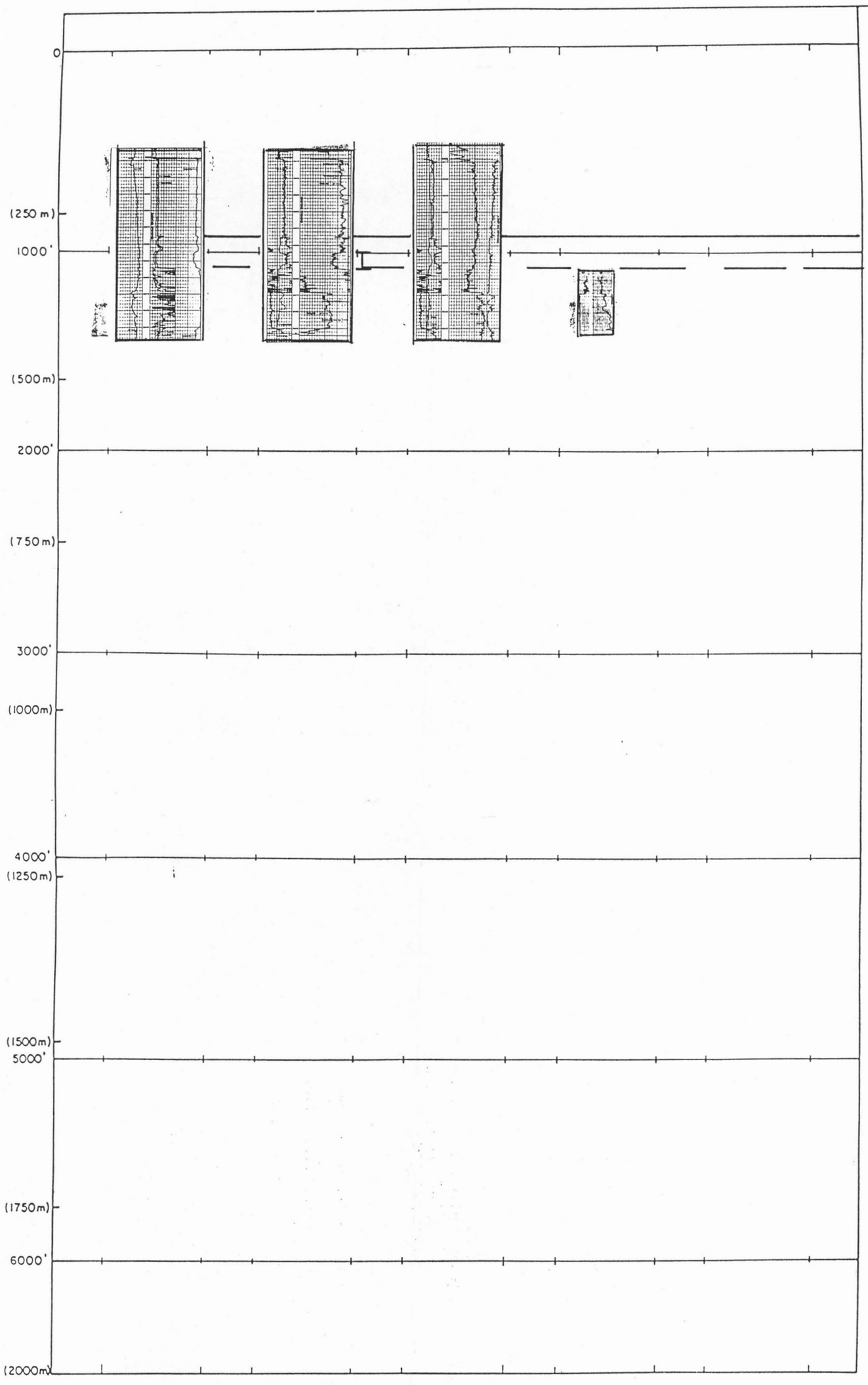
HARDY ASSOCIATES (1978) LTD.
CONSULTING ENGINEERING & PROFESSIONAL SERVICES

PERMAFROST / GAS HYDRATE STUDY
NORTHWEST TERRITORIES - YUKON

NORMAN WELLS C-37X

CG10136

FIGURE 87



LOGS (LEFT TO RIGHT)

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

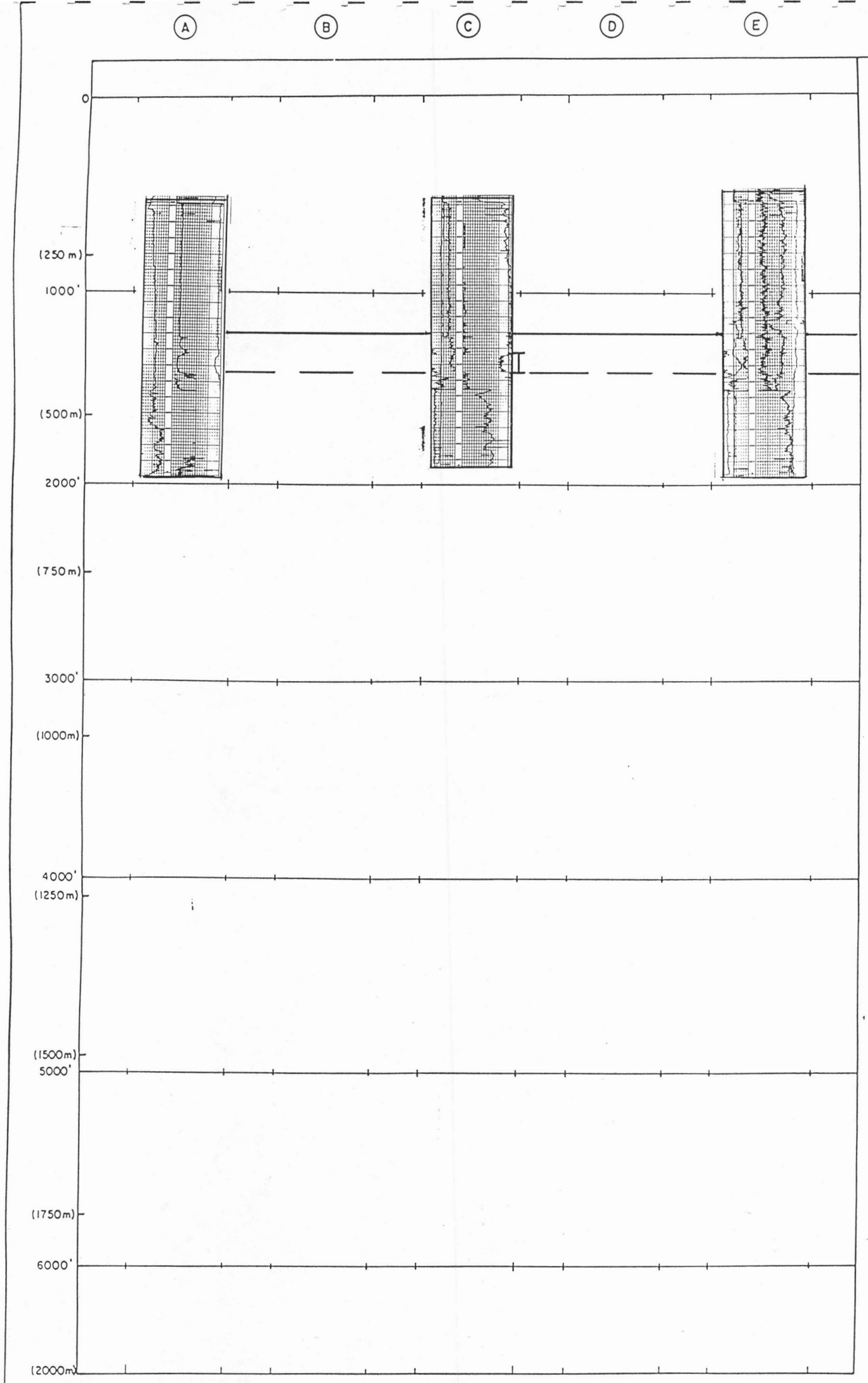
HARDY ASSOCIATES (1978) LTD.
CONSULTING ENGINEERING & PROFESSIONAL SERVICES

PERMAFROST / GAS HYDRATE STUDY
NORTHWEST TERRITORIES - YUKON

NORMAN WELLS B-35X

CG10136

FIGURE 88



LOGS (LEFT TO RIGHT)

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

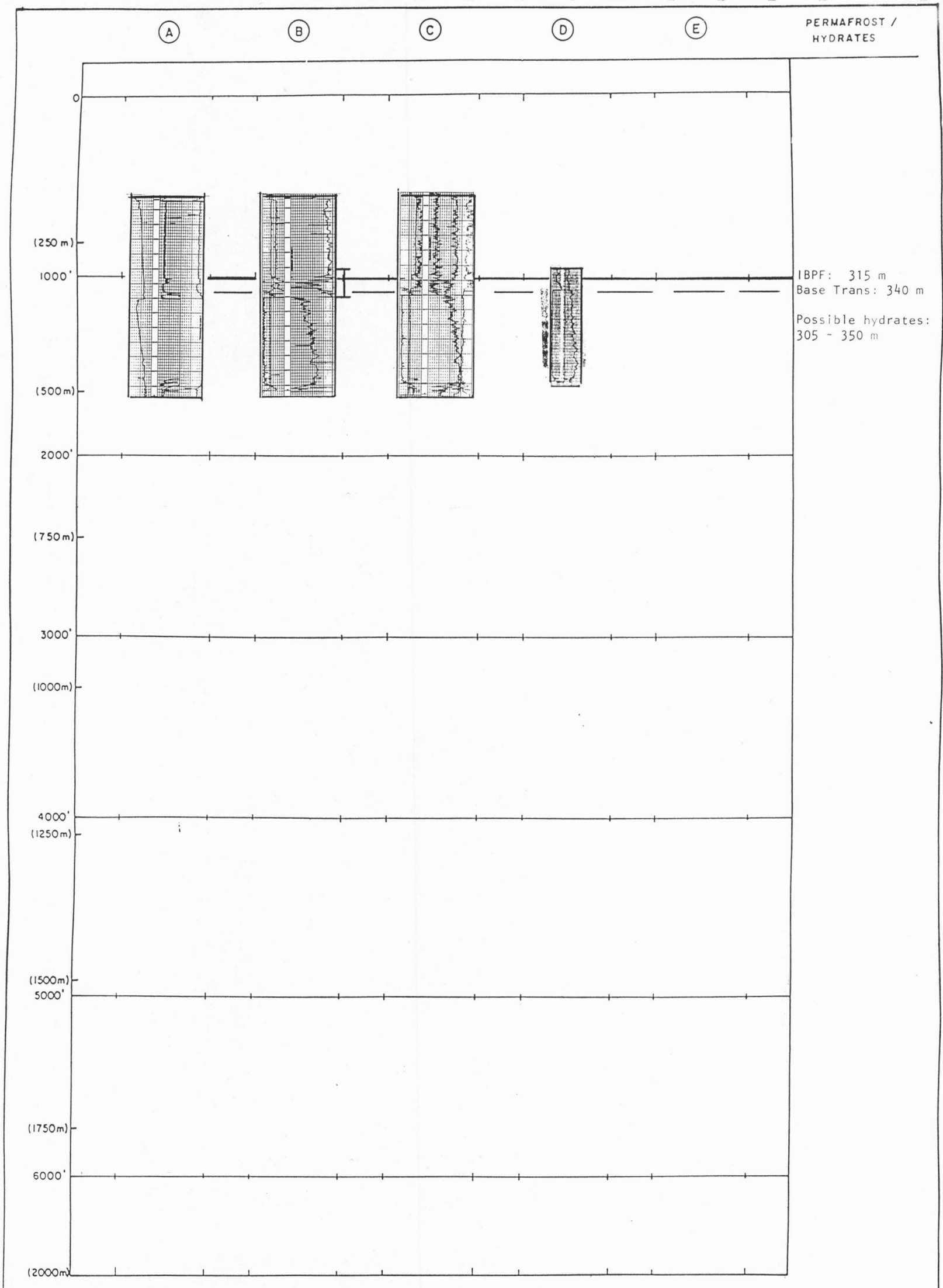
HARDY ASSOCIATES (1978) LTD.
CONSULTING ENGINEERING & PROFESSIONAL SERVICES

PERMAFROST / GAS HYDRATE STUDY
NORTHWEST TERRITORIES - YUKON

NORMAN WELLS D-42X

CGI0136

FIGURE 89



LOGS (LEFT TO RIGHT)

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

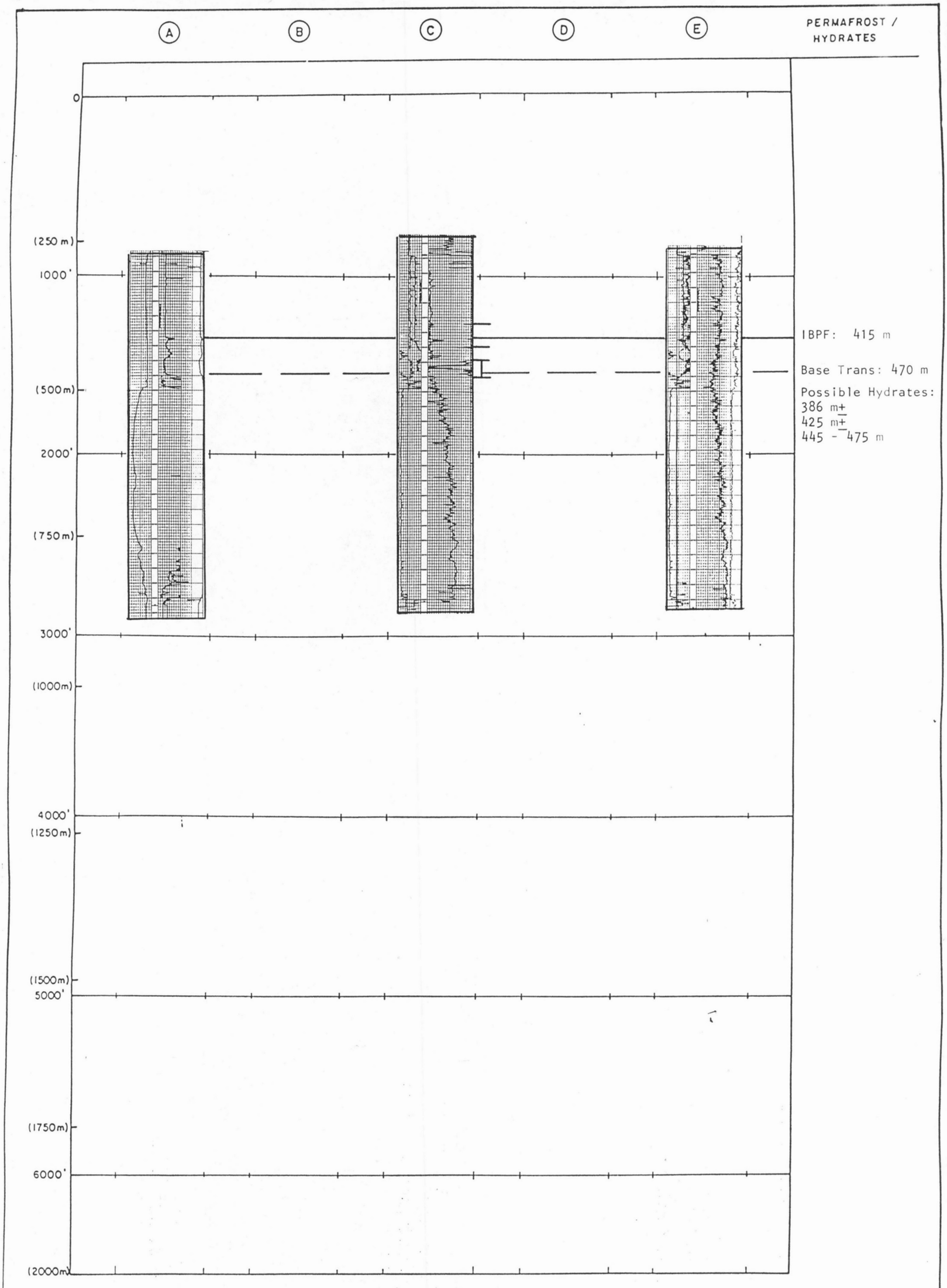
HARDY ASSOCIATES (1978) LTD.
CONSULTING ENGINEERING & PROFESSIONAL SERVICES

PERMAFROST / GAS HYDRATE STUDY
NORTHWEST TERRITORIES - YUKON

NORMAN WELLS D-39X

CG10136

FIGURE 90



LOGS (LEFT TO RIGHT)

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

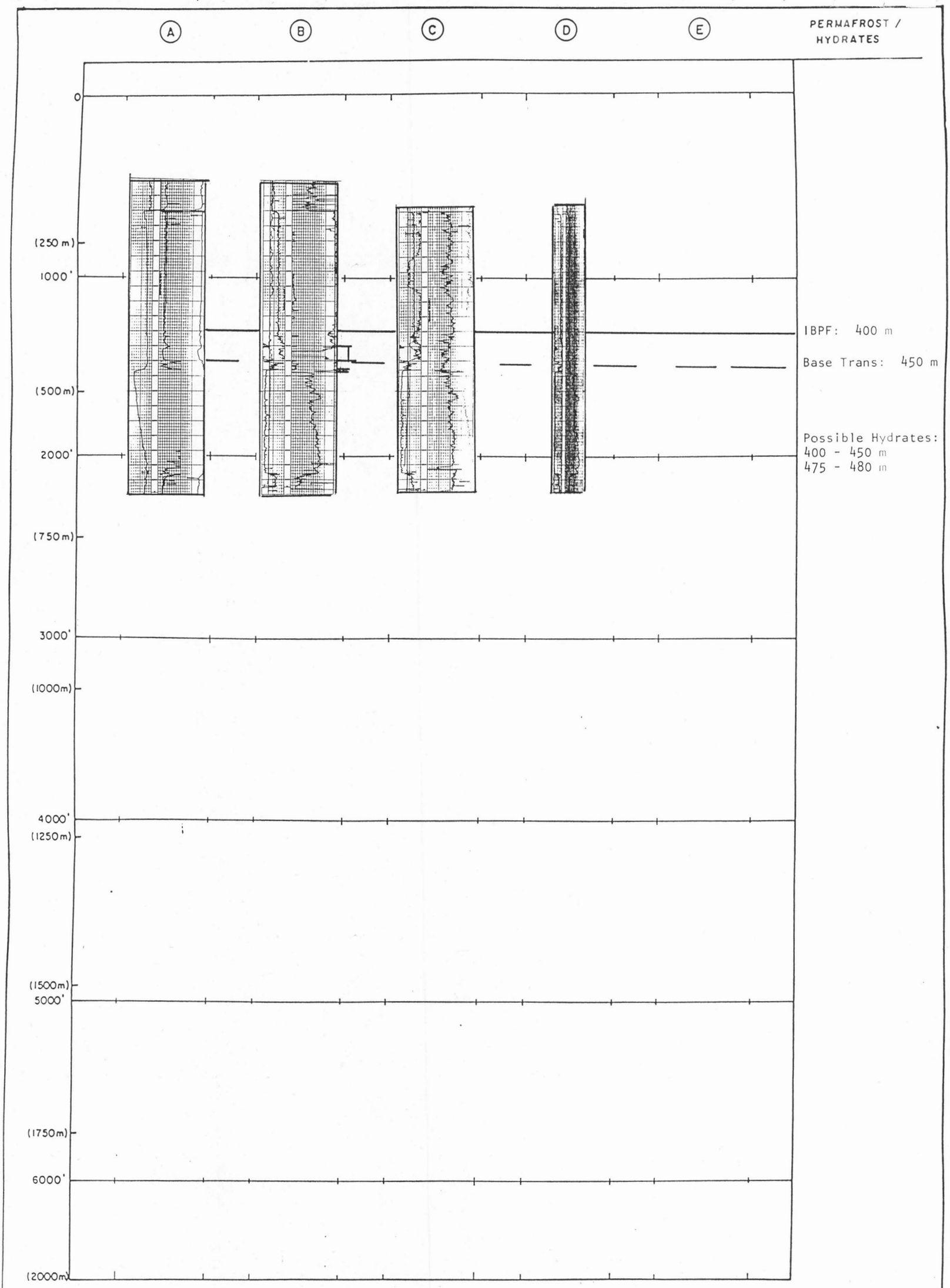
HARDY ASSOCIATES (1978) LTD.
CONSULTING ENGINEERING & PROFESSIONAL SERVICES

PERMAFROST / GAS HYDRATE STUDY
NORTHWEST TERRITORIES – YUKON

NORMAN WELLS G-30X

CGI0136

FIGURE 91



LOGS (LEFT TO RIGHT)

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

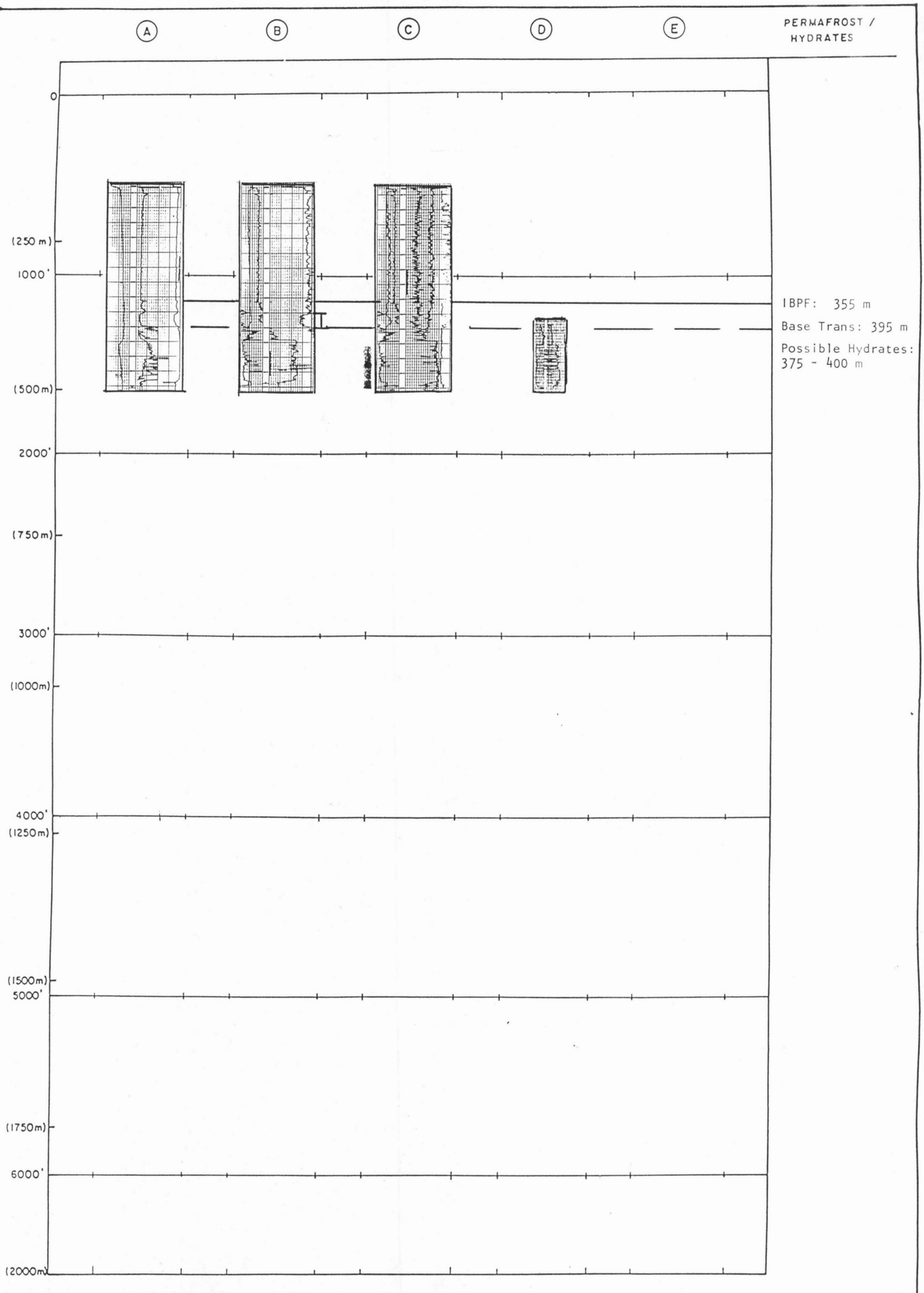
HARDY ASSOCIATES (1978) LTD.
CONSULTING ENGINEERING & PROFESSIONAL SERVICES

PERMAFROST / GAS HYDRATE STUDY
NORTHWEST TERRITORIES – YUKON

NORMAN WELLS G-24X

CGI0136

FIGURE 92



LOGS (LEFT TO RIGHT)

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

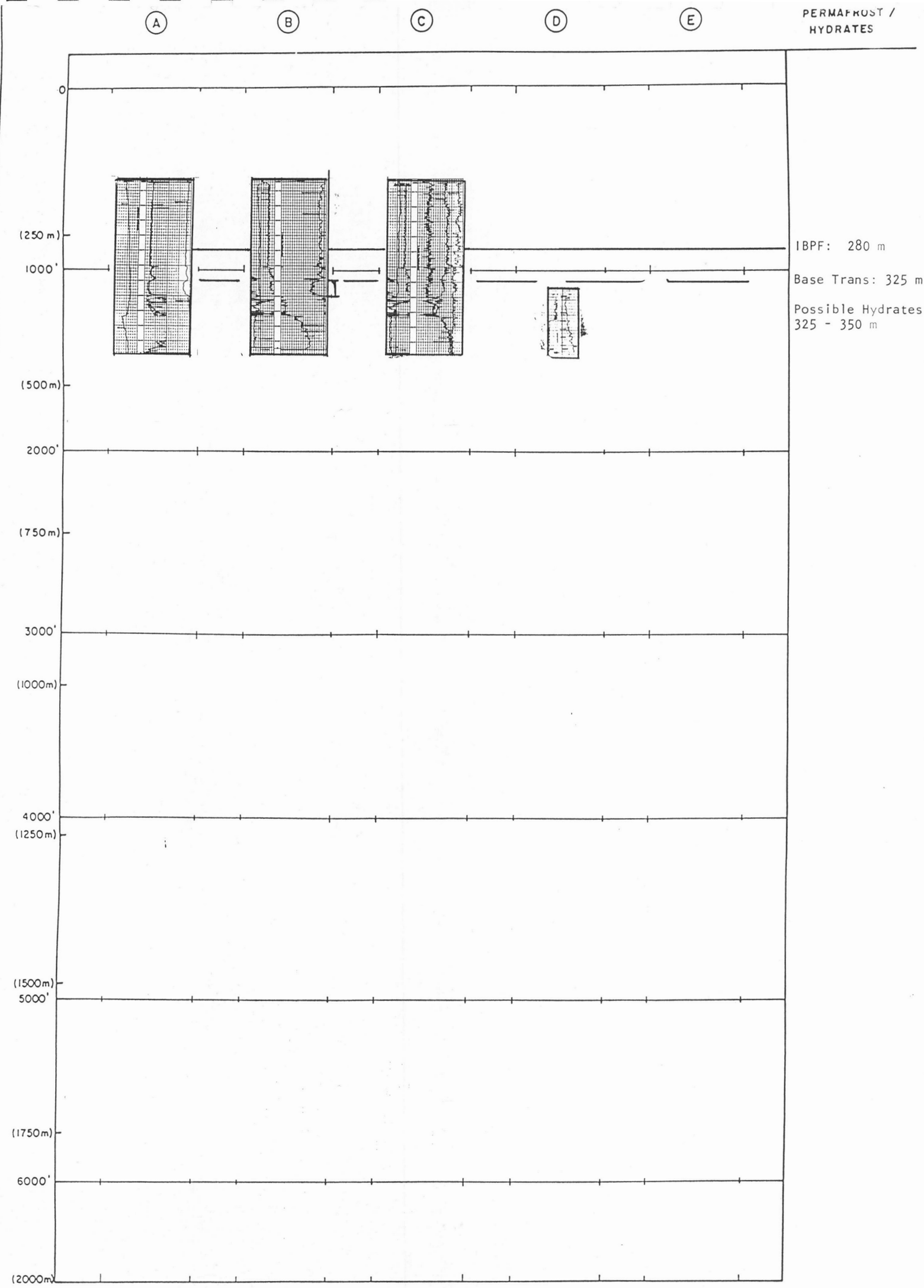
HARDY ASSOCIATES (1978) LTD.
CONSULTING ENGINEERING & PROFESSIONAL SERVICES

PERMAFROST / GAS HYDRATE STUDY
NORTHWEST TERRITORIES - YUKON

NORMAN WELLS F-23X

CG10136

FIGURE 93



LOGS (LEFT TO RIGHT)

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

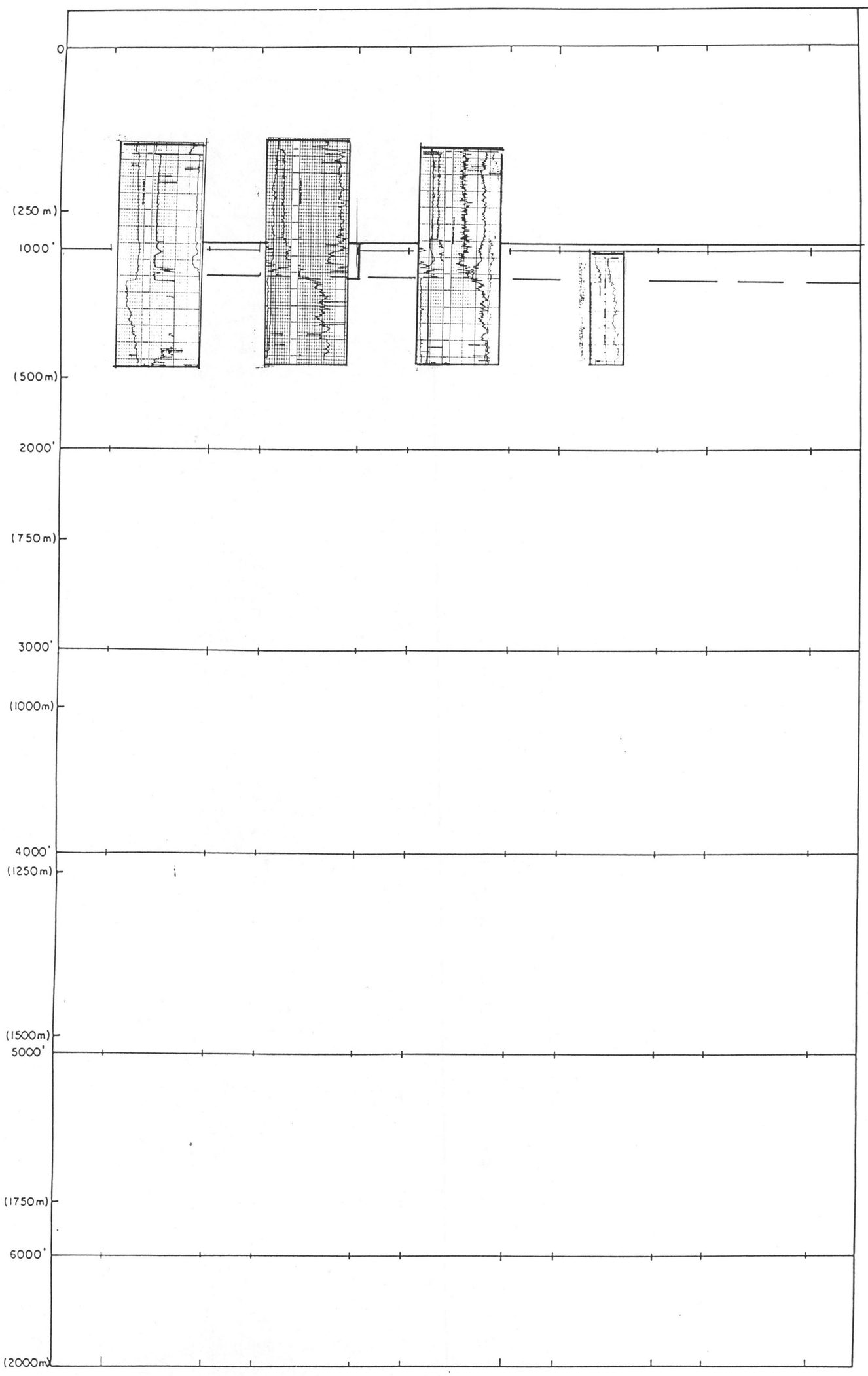
HARDY ASSOCIATES (1978) LTD.
CONSULTING ENGINEERING & PROFESSIONAL SERVICES

PERMAFROST / GAS HYDRATE STUDY
NORTHWEST TERRITORIES – YUKON

NORMAN WELLS B-33X

CG10136

FIGURE 94



LOGS (LEFT TO RIGHT)

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

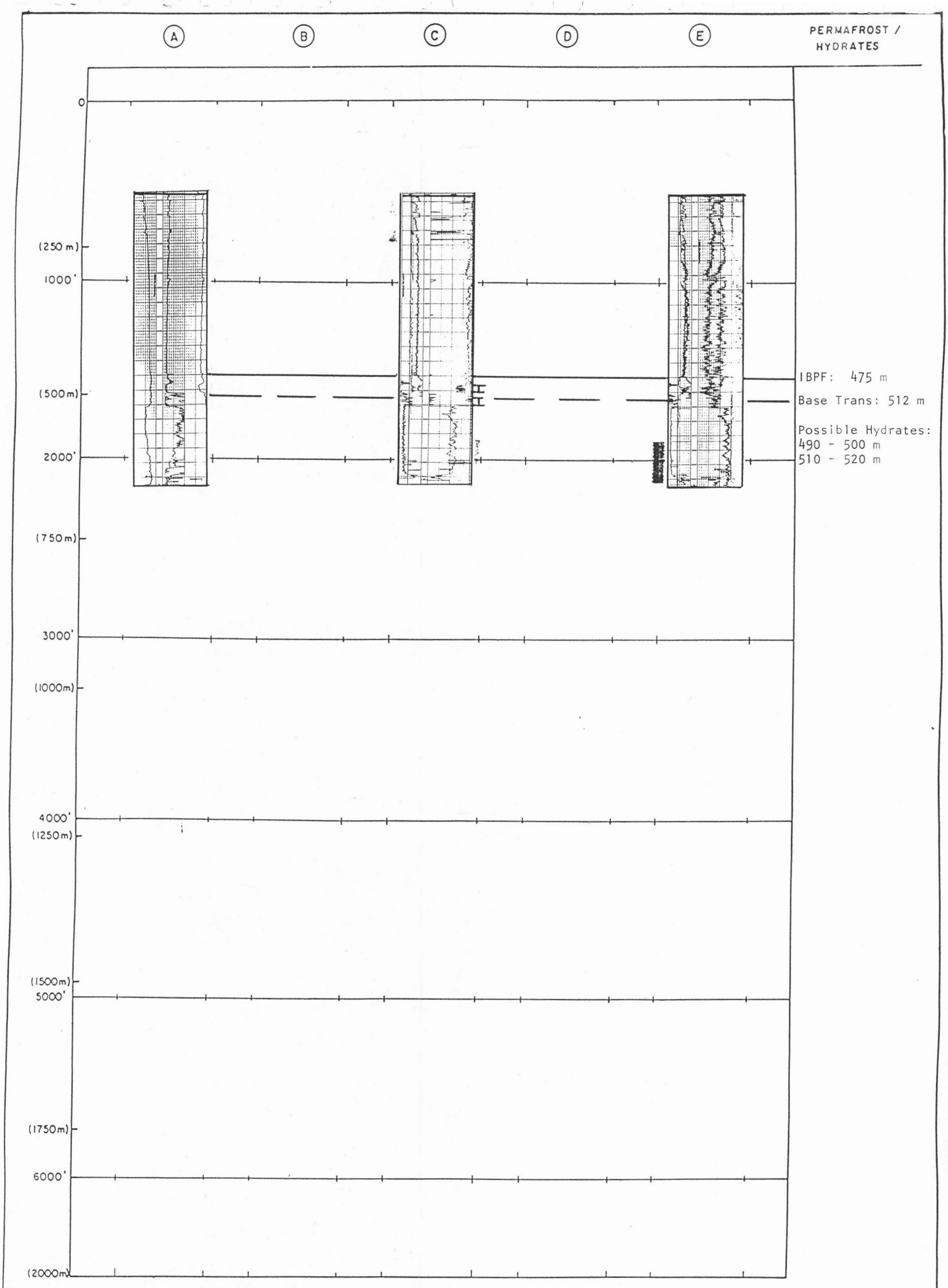
HARDY ASSOCIATES (1978) LTD.
CONSULTING ENGINEERING & PROFESSIONAL SERVICES

PERMAFROST / GAS HYDRATE STUDY
NORTHWEST TERRITORIES – YUKON

NORMAN WELLS C-38X

CG10136

FIGURE 95



LOGS (LEFT TO RIGHT)

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

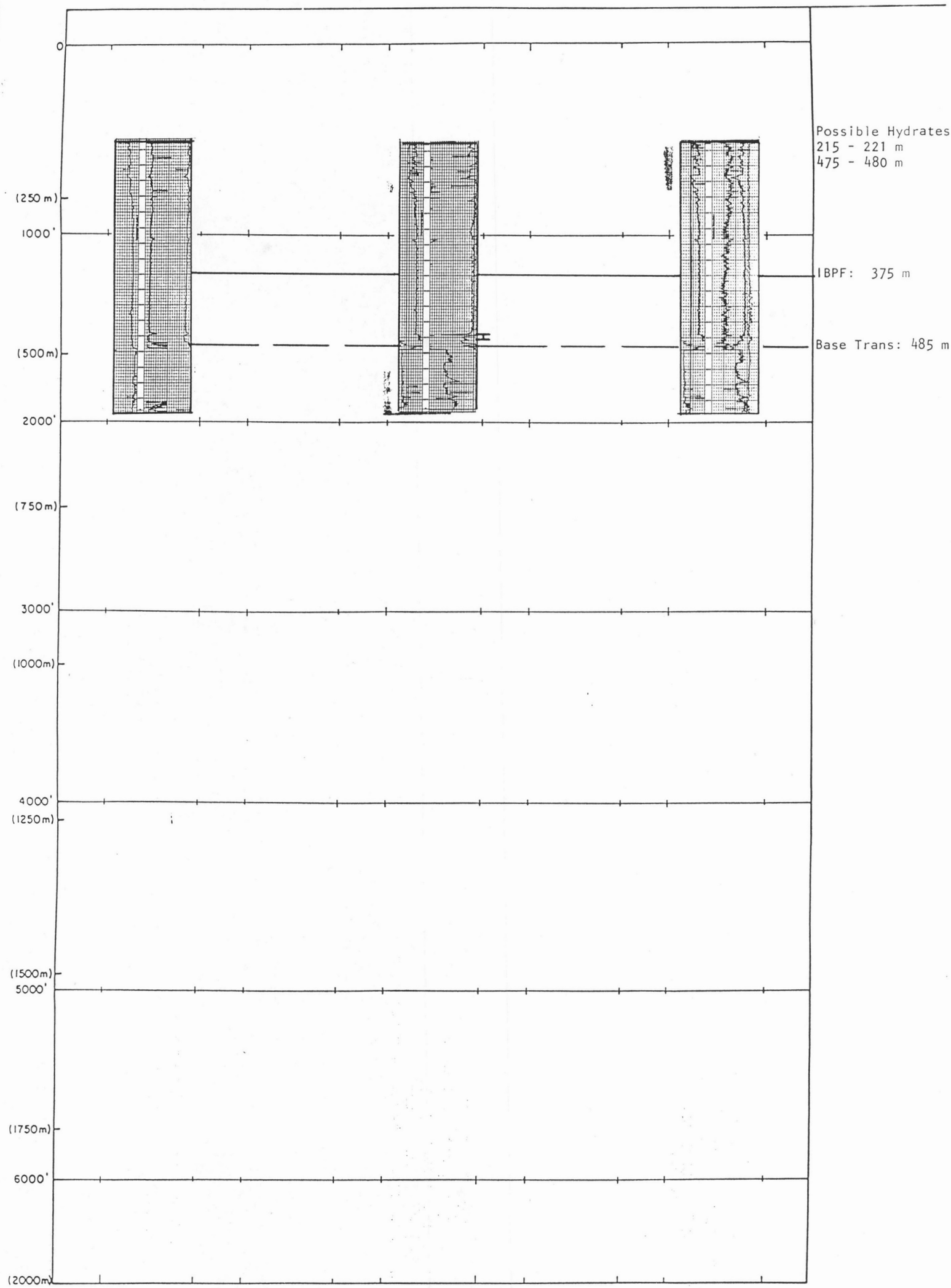
HARDY ASSOCIATES (1978) LTD.
CONSULTING ENGINEERING & PROFESSIONAL SERVICES

PERMAFROST / GAS HYDRATE STUDY
NORTHWEST TERRITORIES – YUKON

NORMAN WELLS K-48X

CGI0136

FIGURE 96



LOGS (LEFT TO RIGHT)

Ⓐ DILL

Ⓑ

Ⓒ BHCS

Ⓓ

Ⓔ CDCN

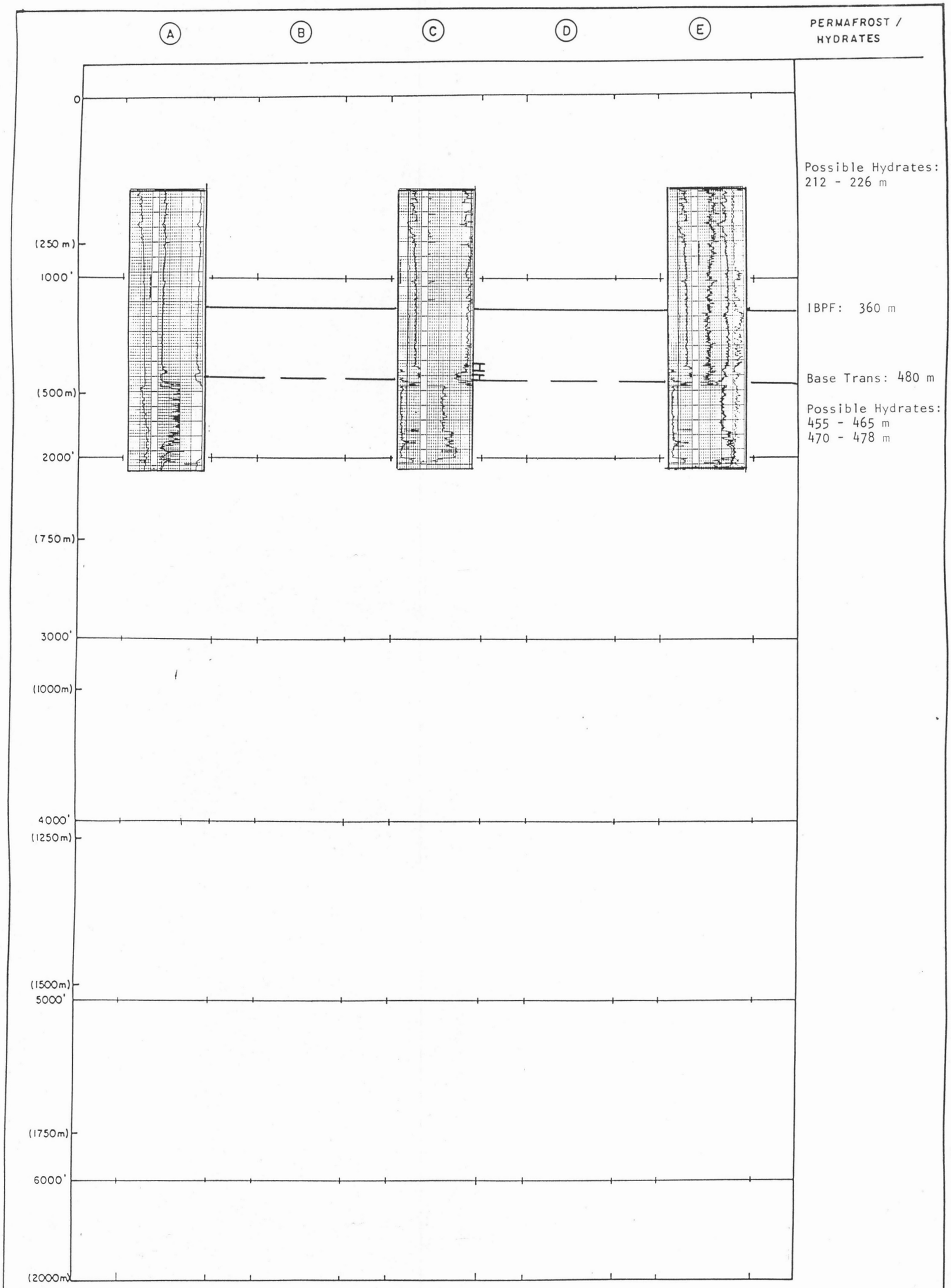
HARDY ASSOCIATES (1978) LTD.
CONSULTING ENGINEERING & PROFESSIONAL SERVICES

PERMAFROST / GAS HYDRATE STUDY
NORTHWEST TERRITORIES - YUKON

NORMAN WELLS M-13X

CG10136

FIGURE 97



LOGS (LEFT TO RIGHT)

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

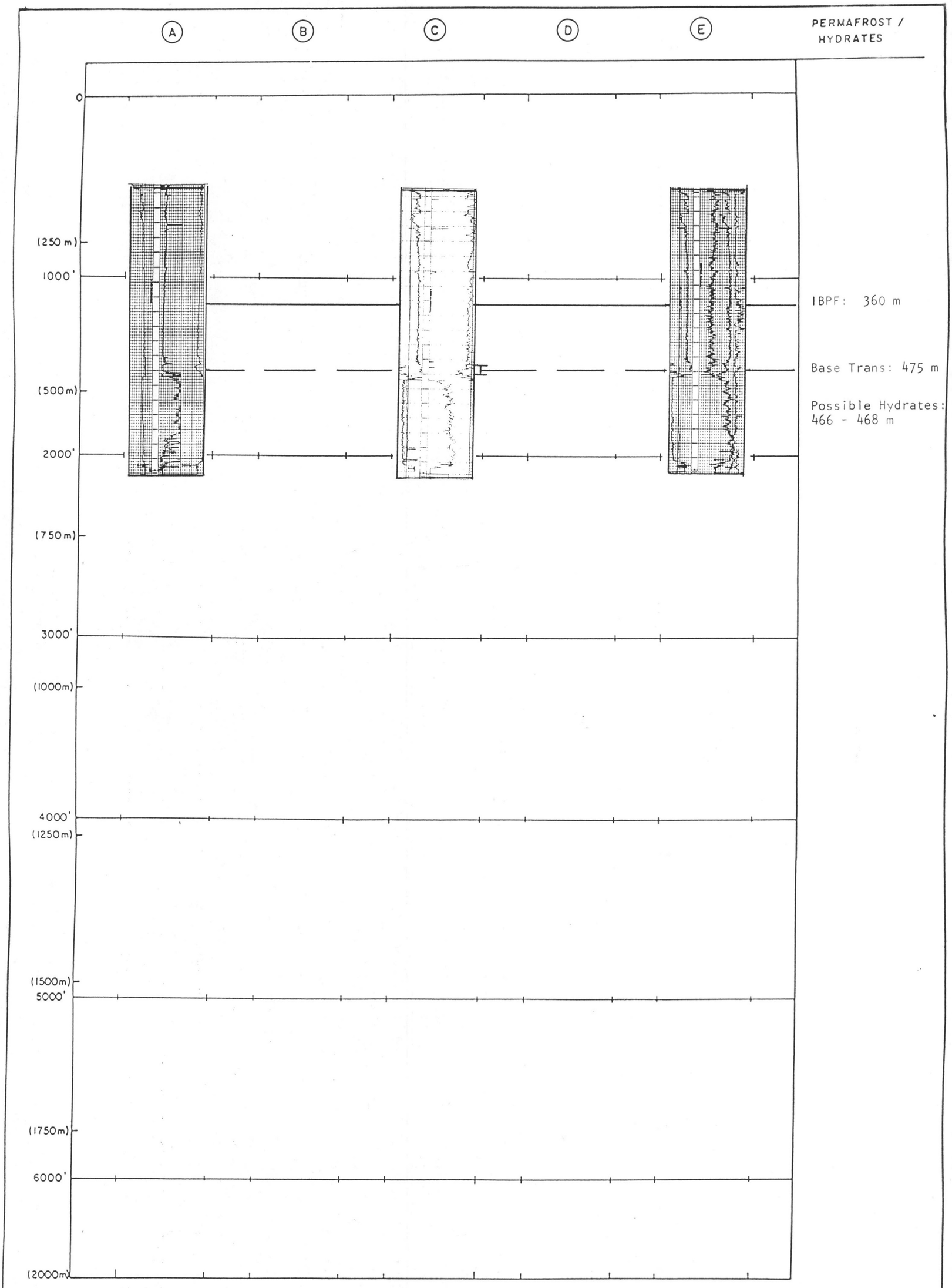
HARDY ASSOCIATES (1978) LTD.
CONSULTING ENGINEERING & PROFESSIONAL SERVICES

PERMAFROST / GAS HYDRATE STUDY
NORTHWEST TERRITORIES – YUKON

NORMAN WELLS N-11X

CG10136

FIGURE 98



LOGS (LEFT TO RIGHT)

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

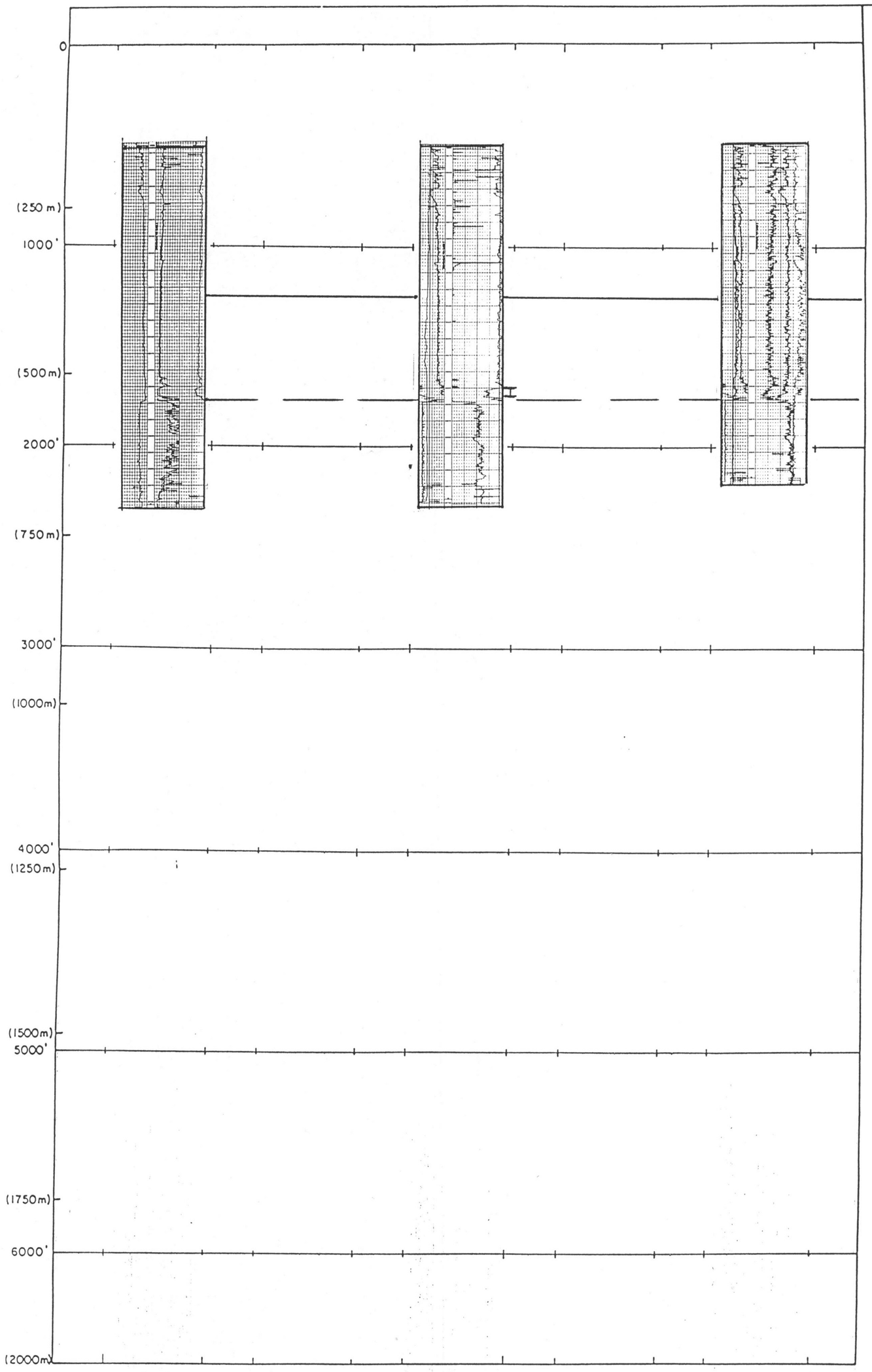
HARDY ASSOCIATES (1978) LTD.
CONSULTING ENGINEERING & PROFESSIONAL SERVICES

PERMAFROST / GAS HYDRATE STUDY
NORTHWEST TERRITORIES - YUKON

NORMAN WELLS N-23X

CGI0136

FIGURE 99



LOGS (LEFT TO RIGHT)

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

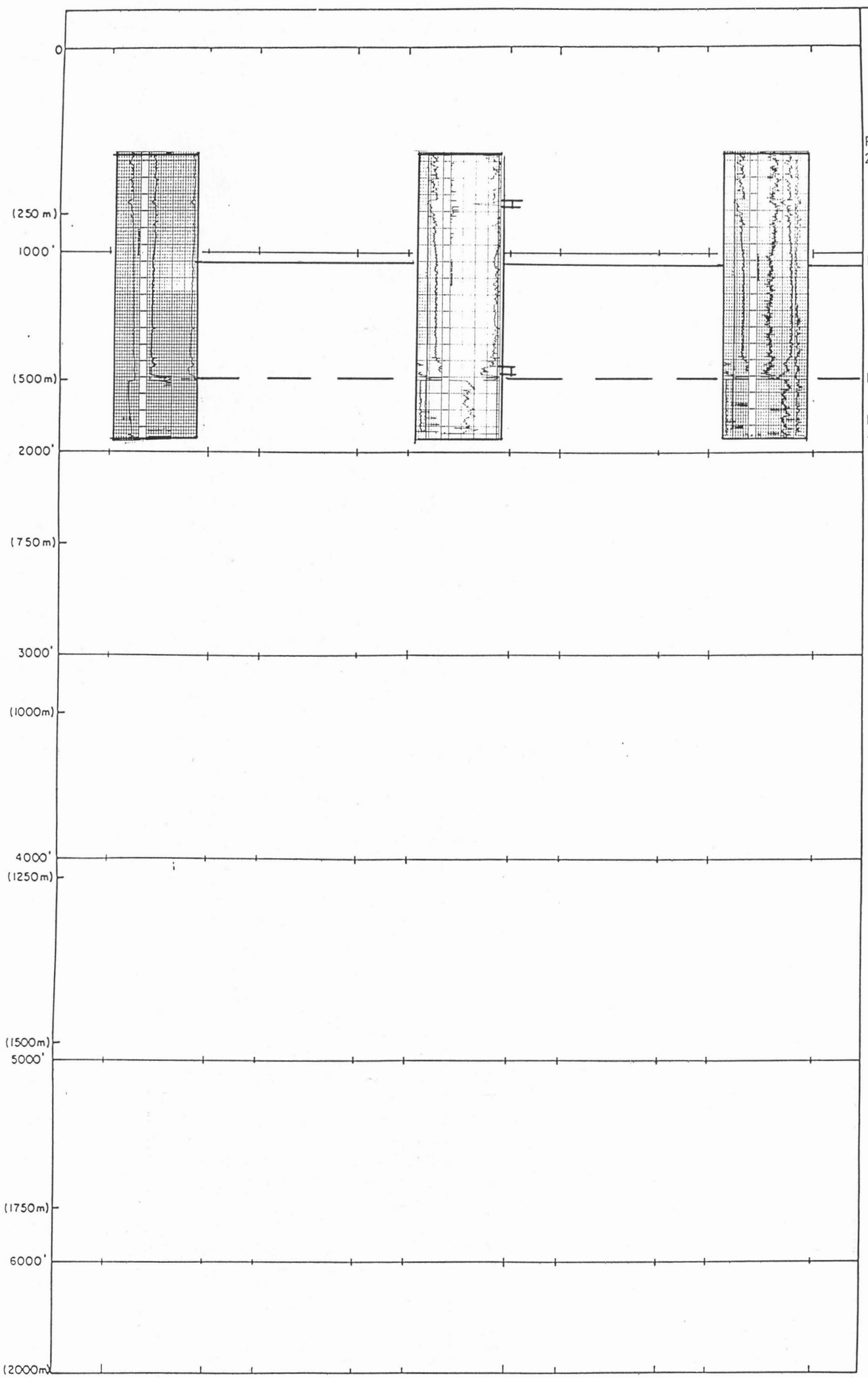
HARDY ASSOCIATES (1978) LTD.
CONSULTING ENGINEERING & PROFESSIONAL SERVICES

PERMAFROST / GAS HYDRATE STUDY
NORTHWEST TERRITORIES - YUKON

NORMAN WELLS N-31X

CG10136

FIGURE 100



LOGS (LEFT TO RIGHT)

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

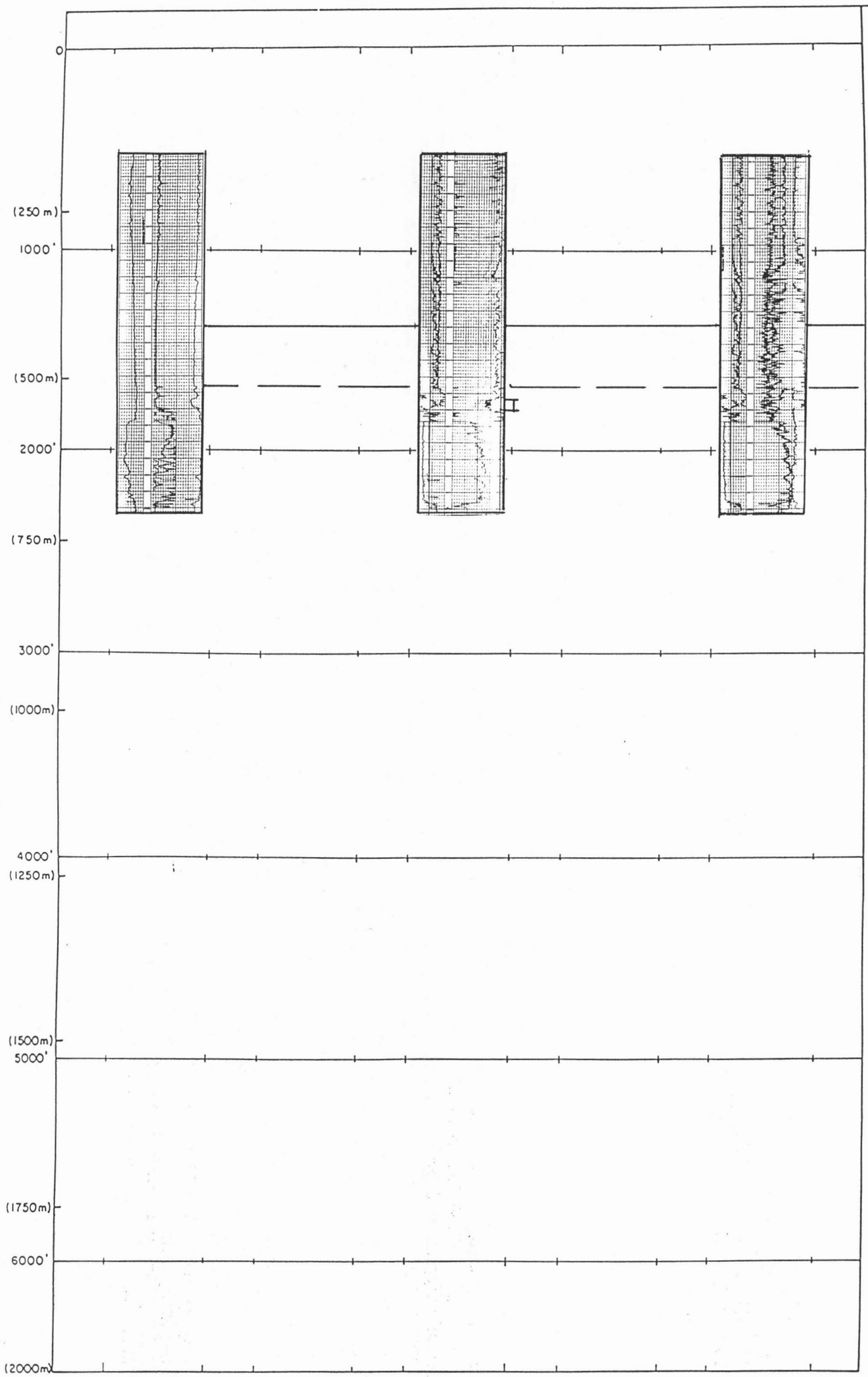
HARDY ASSOCIATES (1978) LTD.
CONSULTING ENGINEERING & PROFESSIONAL SERVICES

PERMAFROST / GAS HYDRATE STUDY
NORTHWEST TERRITORIES - YUKON

NORMAN WELLS O-10X

CG10136

FIGURE 101



LOGS (LEFT TO RIGHT)

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

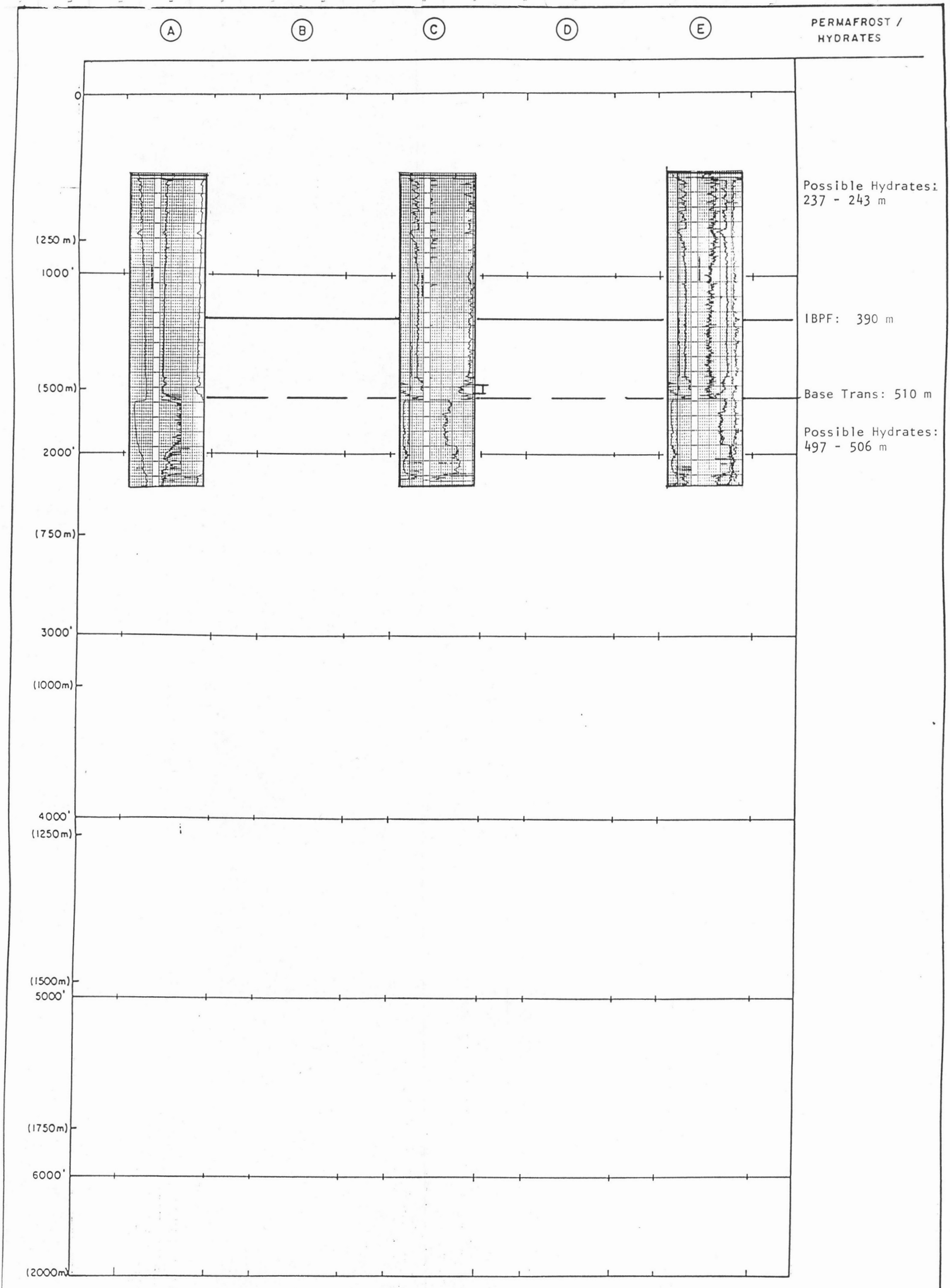
HARDY ASSOCIATES (1978) LTD.
CONSULTING ENGINEERING & PROFESSIONAL SERVICES

PERMAFROST / GAS HYDRATE STUDY
NORTHWEST TERRITORIES – YUKON

NORMAN WELLS O-45X

CGI0136

FIGURE 102



LOGS (LEFT TO RIGHT)

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

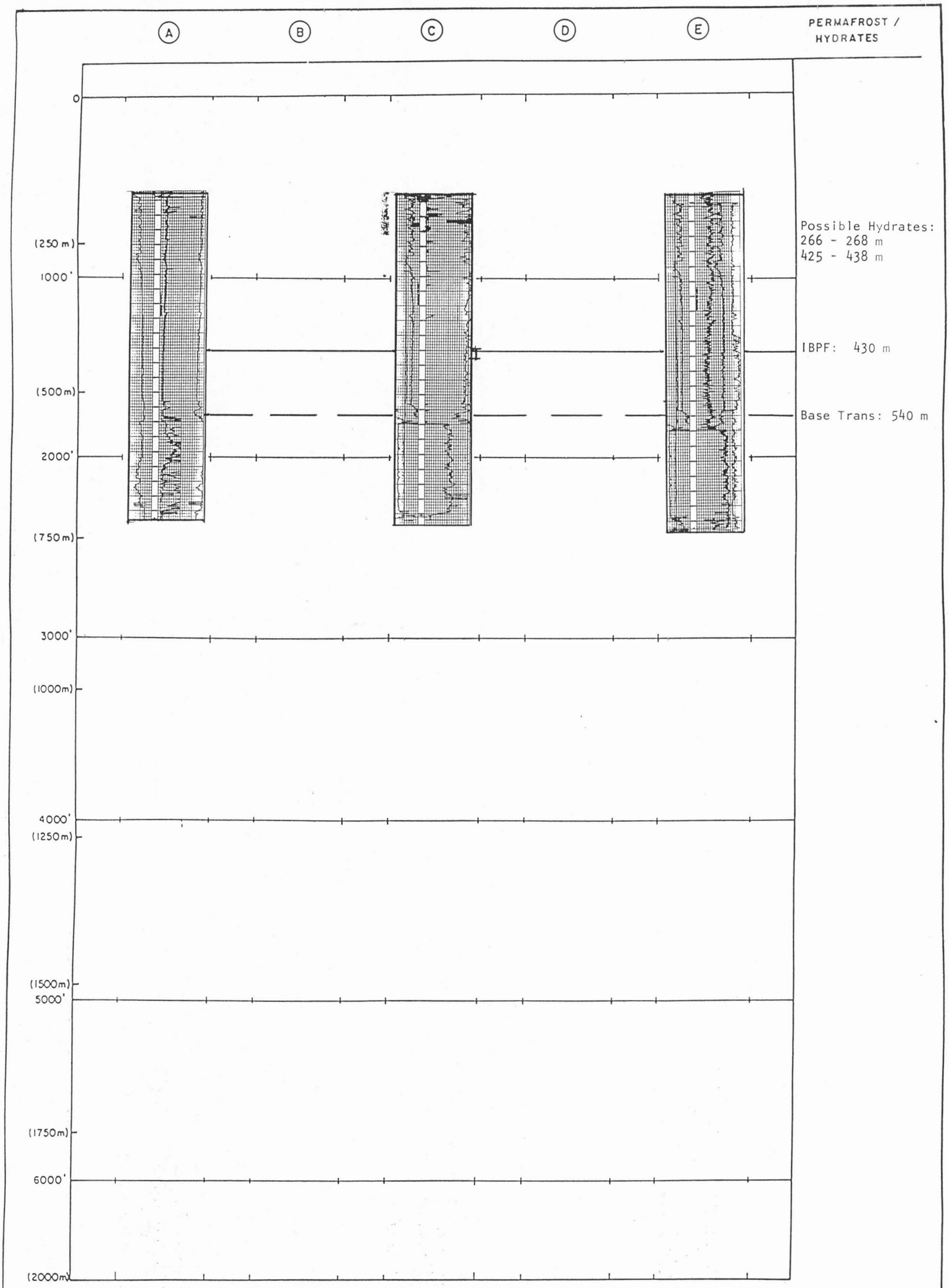
HARDY ASSOCIATES (1978) LTD.
CONSULTING ENGINEERING & PROFESSIONAL SERVICES

PERMAFROST / GAS HYDRATE STUDY
NORTHWEST TERRITORIES – YUKON

NORMAN WELLS P-IIX

CGI0136

FIGURE 103



LOGS (LEFT TO RIGHT)

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

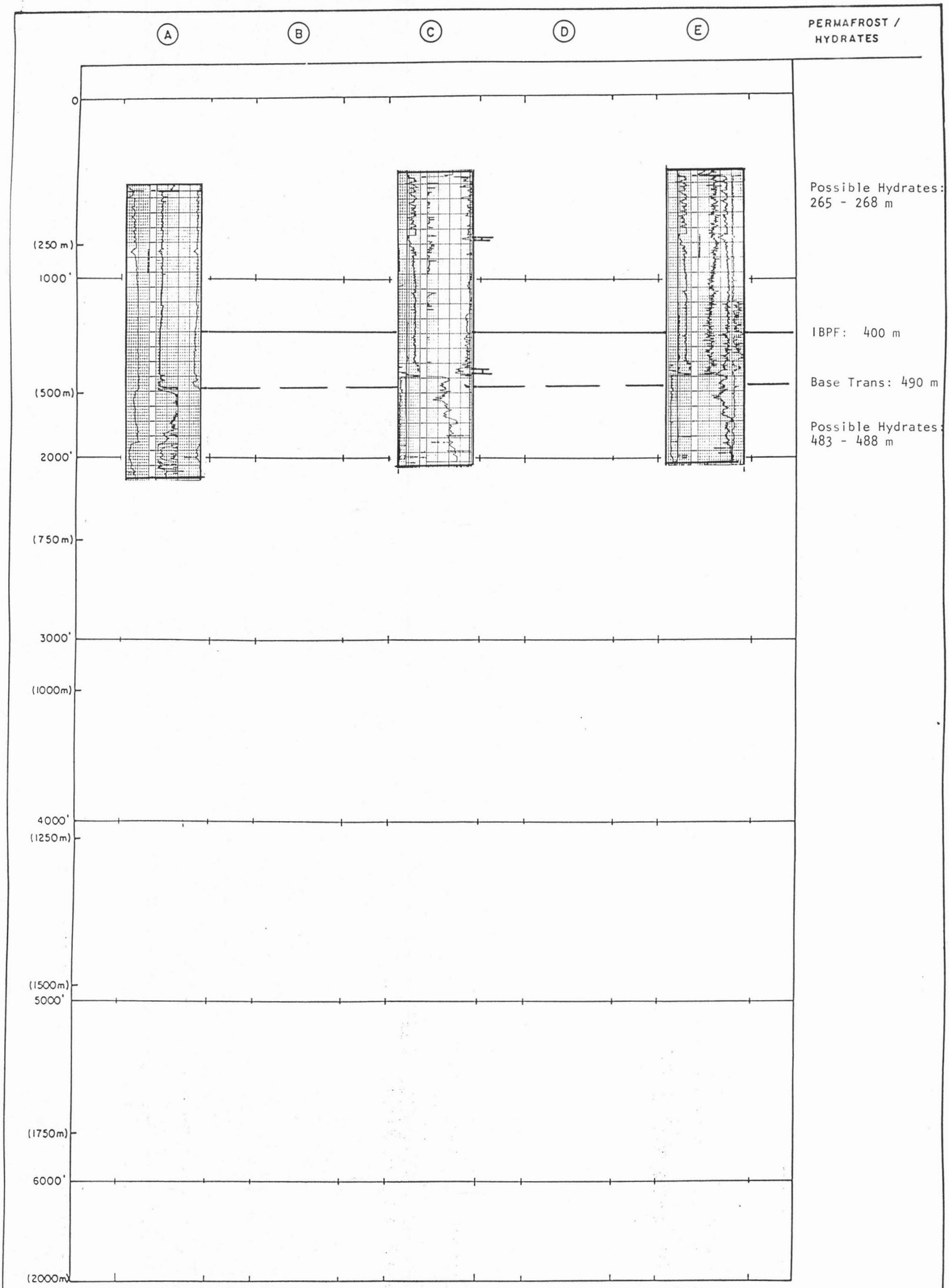
HARDY ASSOCIATES (1978) LTD.
CONSULTING ENGINEERING & PROFESSIONAL SERVICES

PERMAFROST / GAS HYDRATE STUDY
NORTHWEST TERRITORIES – YUKON

NORMAN WELL P-37X

CG10136

FIGURE 104



LOGS (LEFT TO RIGHT)

- (A) DILL
- (B)
- (C) SONIC
- (D)
- (E) CDCN

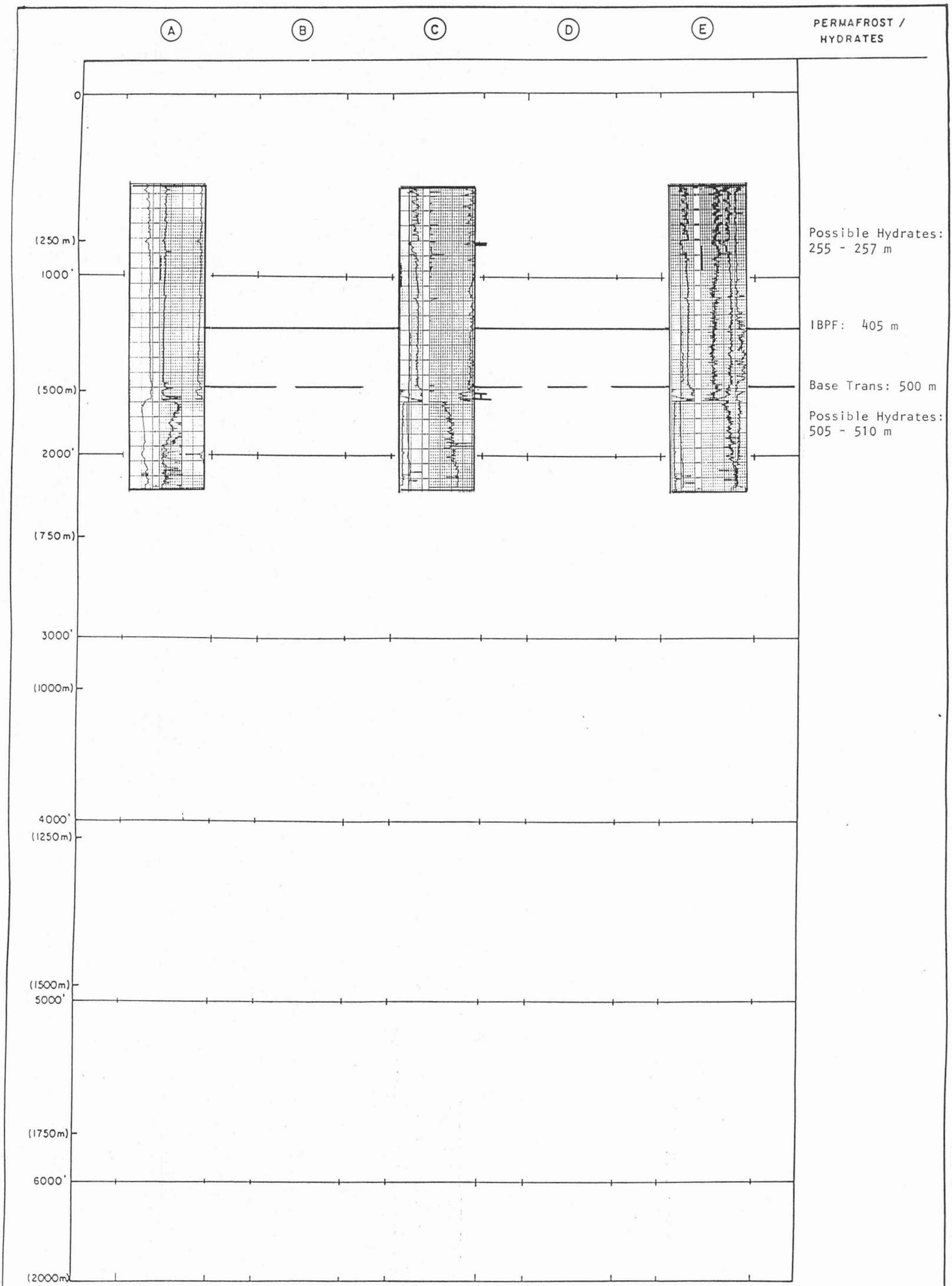
HARDY ASSOCIATES (1978) LTD.
CONSULTING ENGINEERING & PROFESSIONAL SERVICES

PERMAFROST / GAS HYDRATE STUDY
NORTHWEST TERRITORIES - YUKON

NORMAN WELLS Q-12X

CG10136

FIGURE 105



LOGS (LEFT TO RIGHT)

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

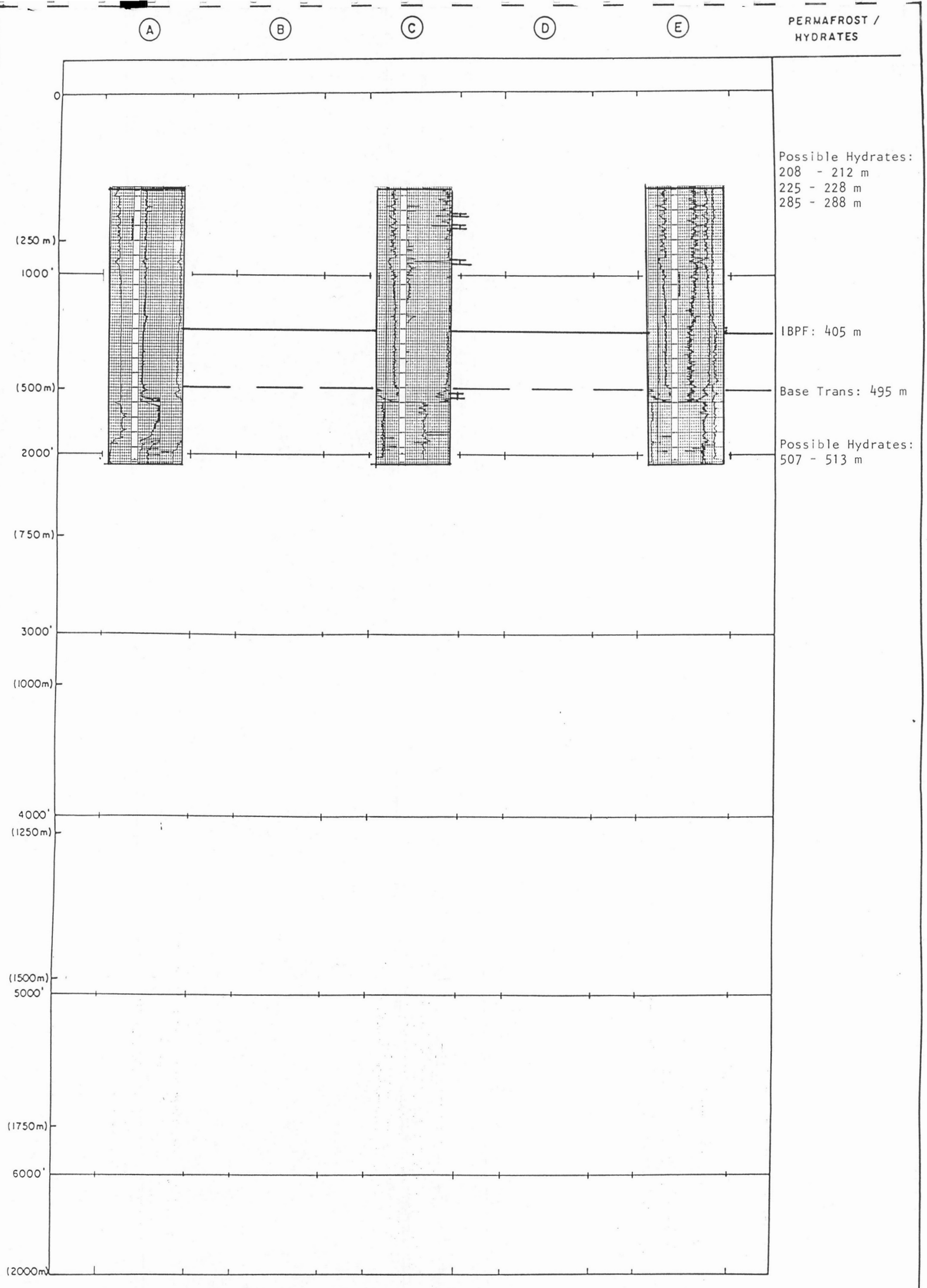
HARDY ASSOCIATES (1978) LTD.
CONSULTING ENGINEERING & PROFESSIONAL SERVICES

PERMAFROST / GAS HYDRATE STUDY
NORTHWEST TERRITORIES - YUKON

NORMAN WELLS Q-17-IX

CGI0136

FIGURE 106



LOGS (LEFT TO RIGHT)

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

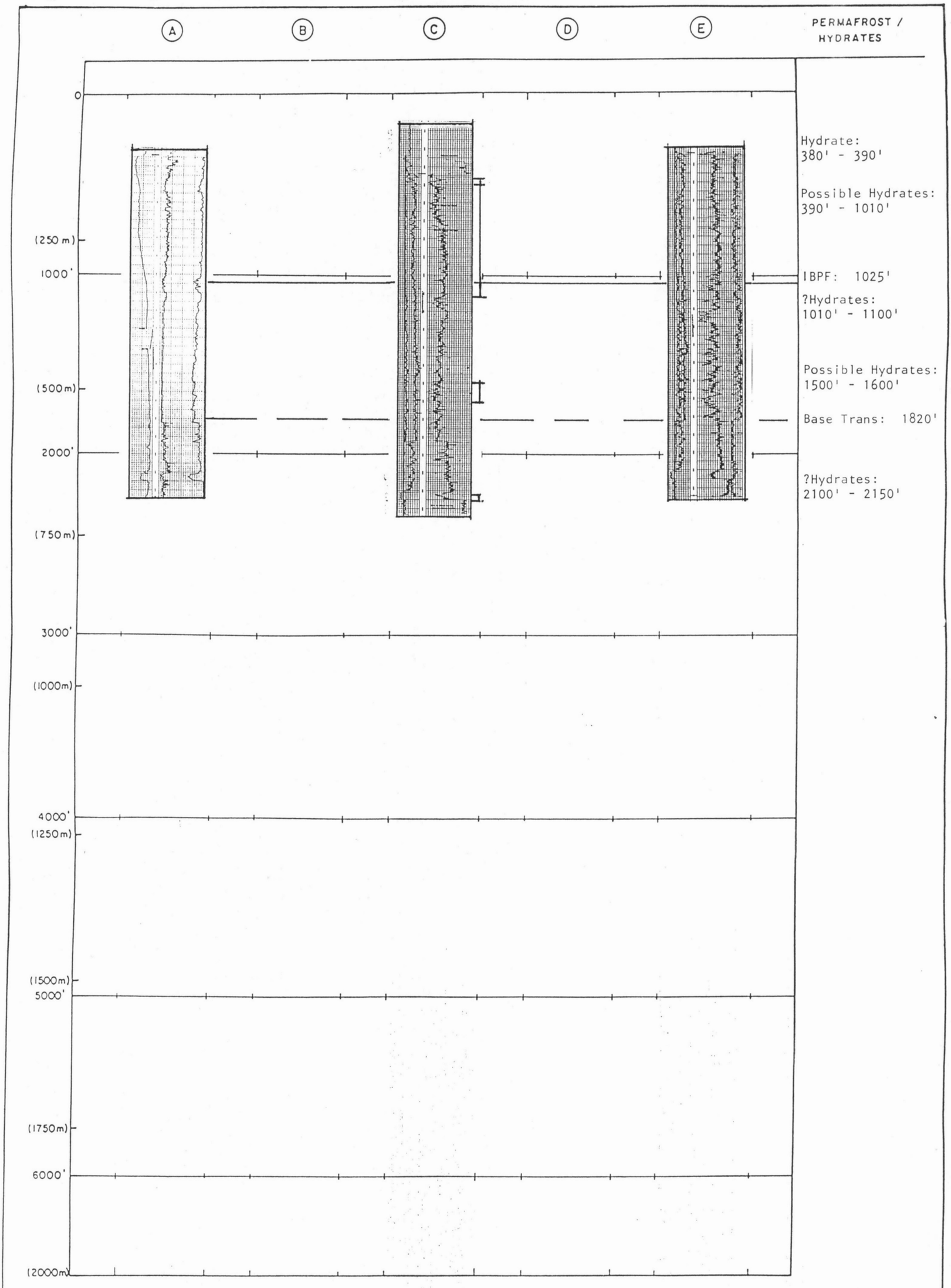
HARDY ASSOCIATES (1978) LTD.
CONSULTING ENGINEERING & PROFESSIONAL SERVICES

PERMAFROST / GAS HYDRATE STUDY
NORTHWEST TERRITORIES – YUKON

NORMAN WELLS R-11X

CG10136

FIGURE 107



LOGS (LEFT TO RIGHT)

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

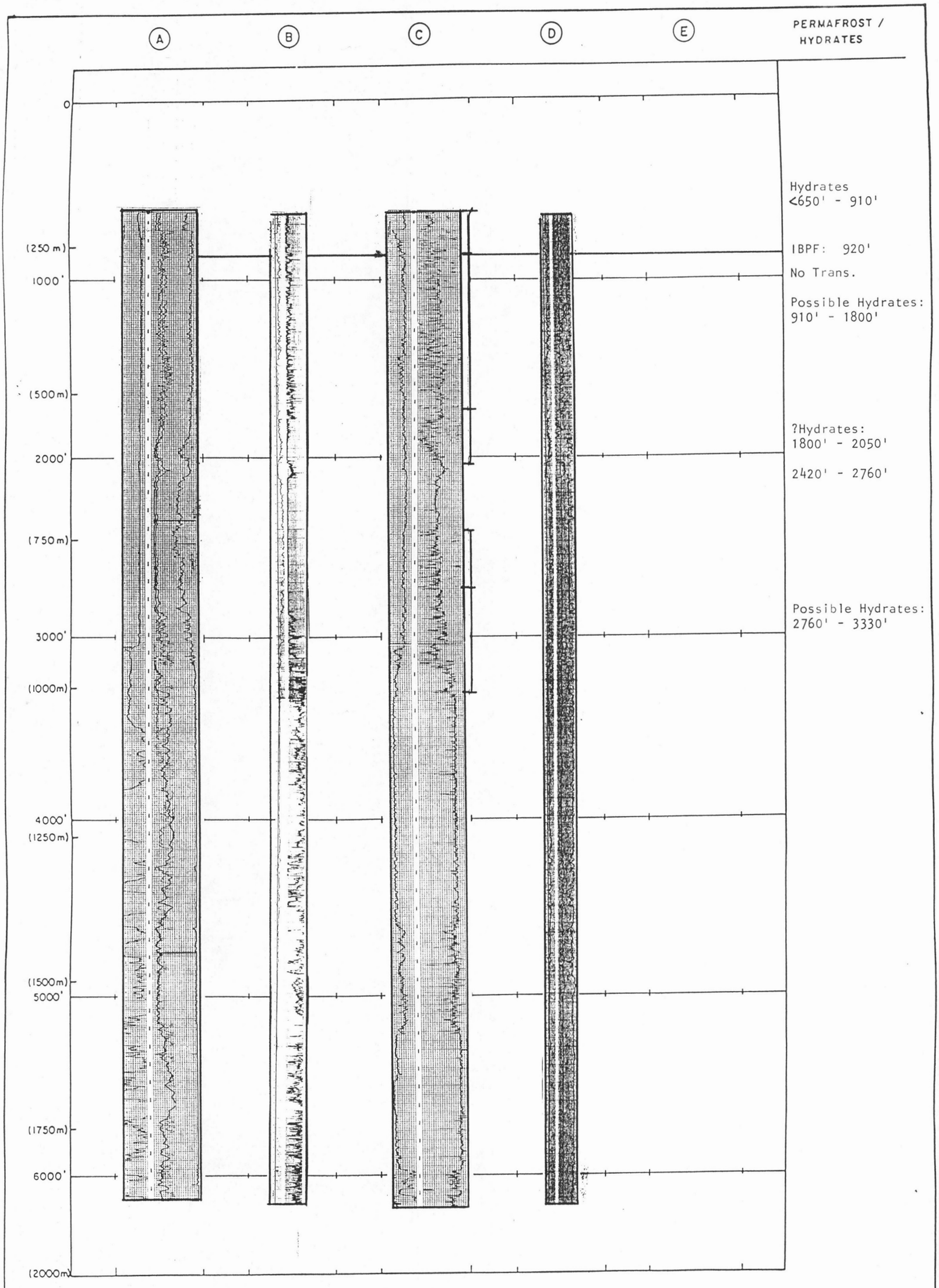
HARDY ASSOCIATES (1978) LTD.
CONSULTING ENGINEERING & PROFESSIONAL SERVICES

PERMAFROST / GAS HYDRATE STUDY
NORTHWEST TERRITORIES - YUKON

GREYGOOSE N - 70

CG10136

FIGURE 108



LOGS (LEFT TO RIGHT)

- (A) IND E
- (B) MIN C
- (C) AC GR
- (D) DEN
- (E)

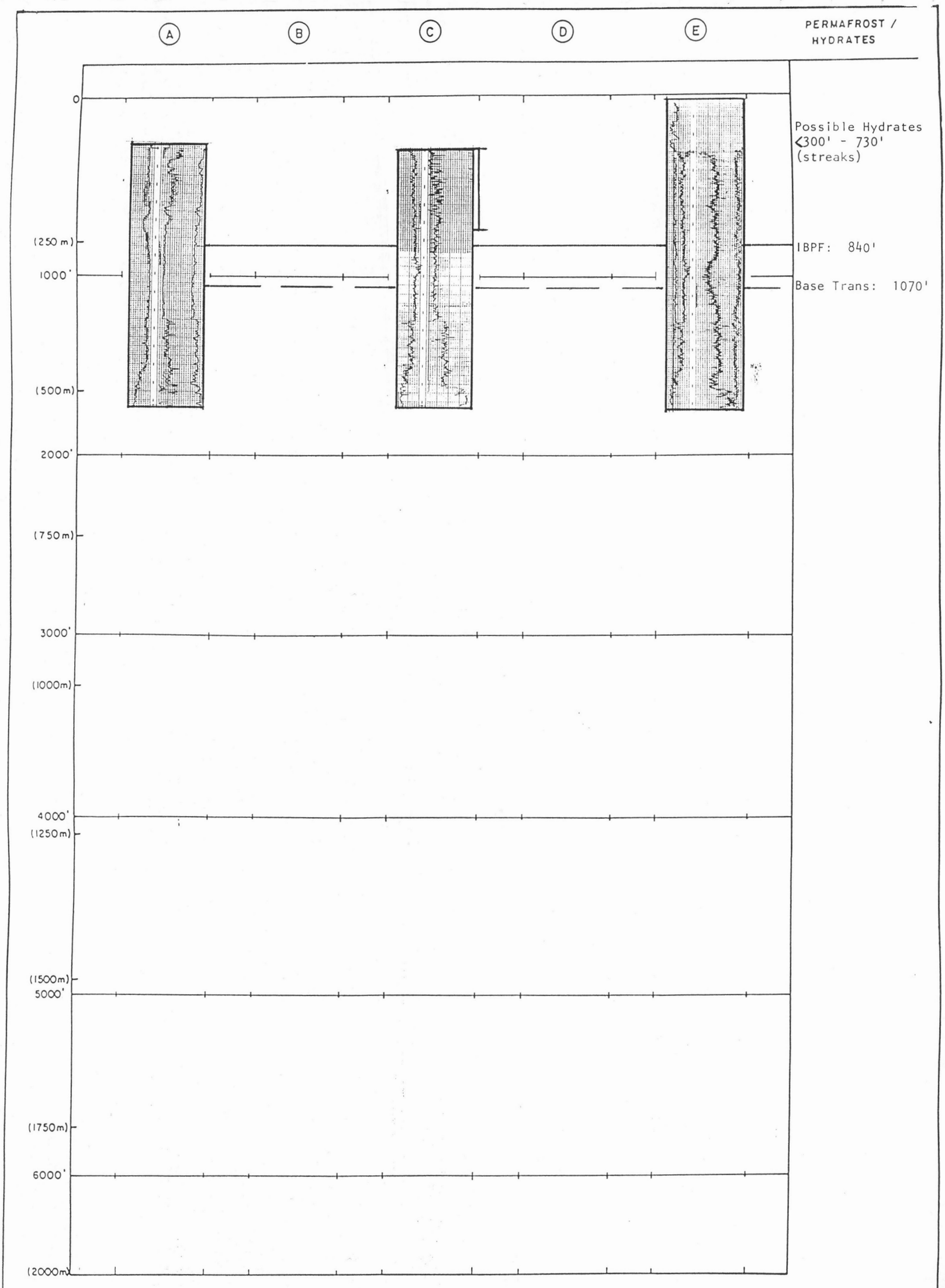
HARDY ASSOCIATES (1978) LTD.
CONSULTING ENGINEERING & PROFESSIONAL SERVICES

PERMAFROST / GAS HYDRATE STUDY
NORTHWEST TERRITORIES - YUKON

MAHONY LAKE I-74

CG10136

FIGURE 109



LOGS (LEFT TO RIGHT)

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

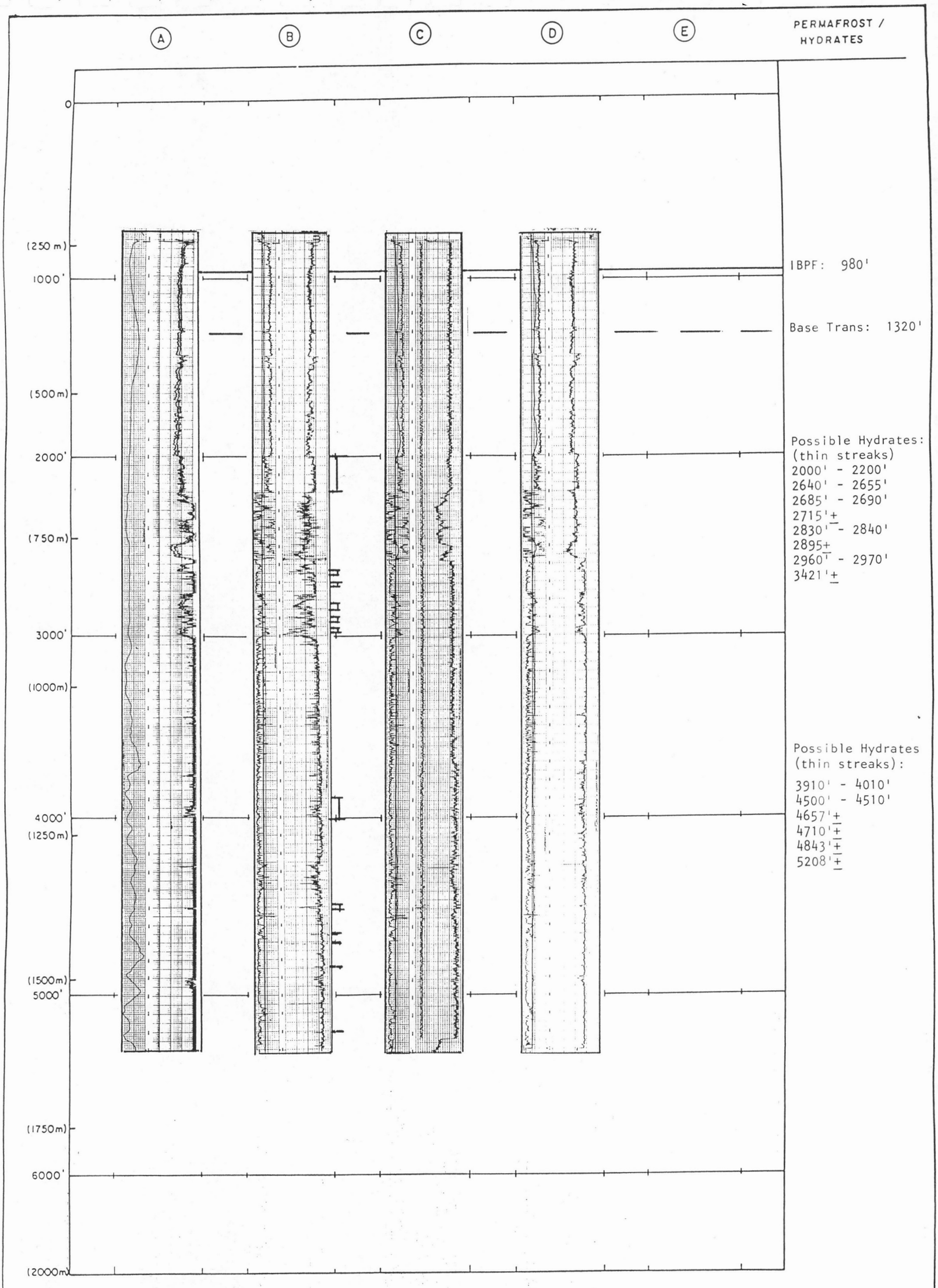
HARDY ASSOCIATES (1978) LTD.
CONSULTING ENGINEERING & PROFESSIONAL SERVICES

PERMAFROST / GAS HYDRATE STUDY
NORTHWEST TERRITORIES – YUKON

RUSSEL M-07

CGI0136

FIGURE 110



LOGS (LEFT TO RIGHT)

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

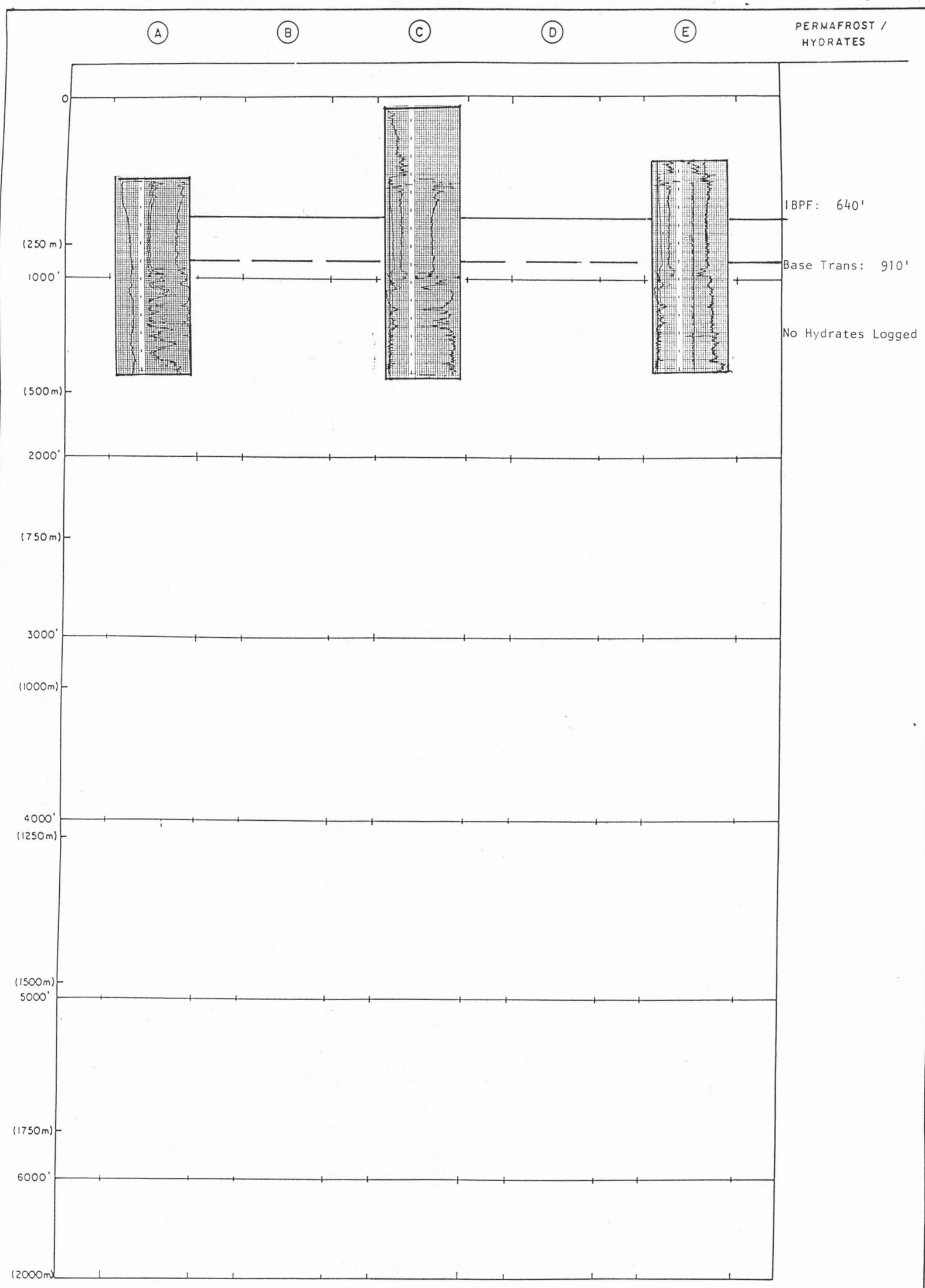
HARDY ASSOCIATES (1978) LTD.
CONSULTING ENGINEERING & PROFESSIONAL SERVICES

PERMAFROST / GAS HYDRATE STUDY
NORTHWEST TERRITORIES – YUKON

S. RAMPARTS I-77

CGI0136

FIGURE 111



LOGS (LEFT TO RIGHT)

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

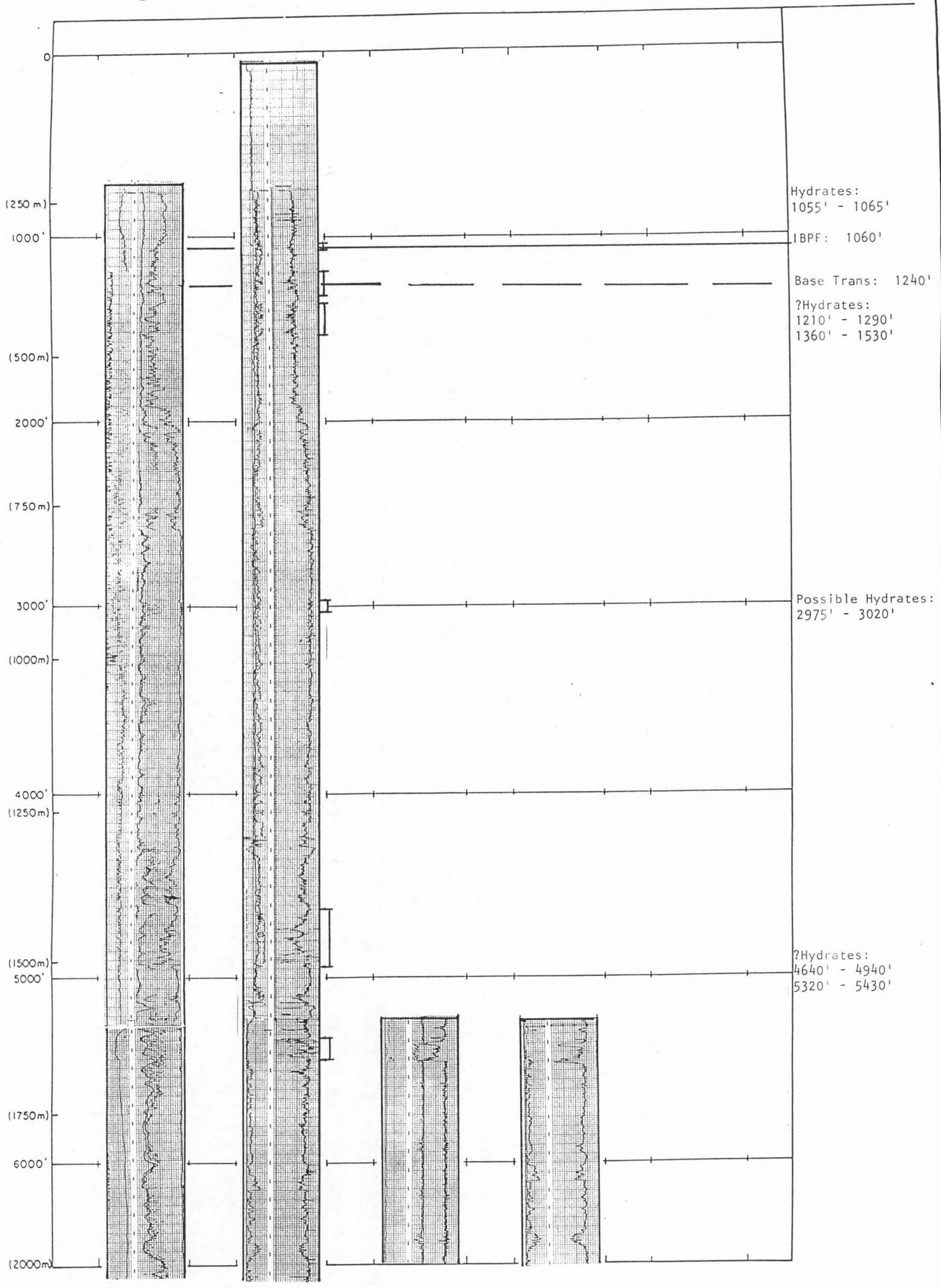
HARDY ASSOCIATES (1978) LTD.
CONSULTING ENGINEERING & PROFESSIONAL SERVICES

PERMAFROST / GAS HYDRATE STUDY
NORTHWEST TERRITORIES – YUKON

OSCAR CREEK J-48

CGI0136

FIGURE 112



LOGS (LEFT TO RIGHT)

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

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

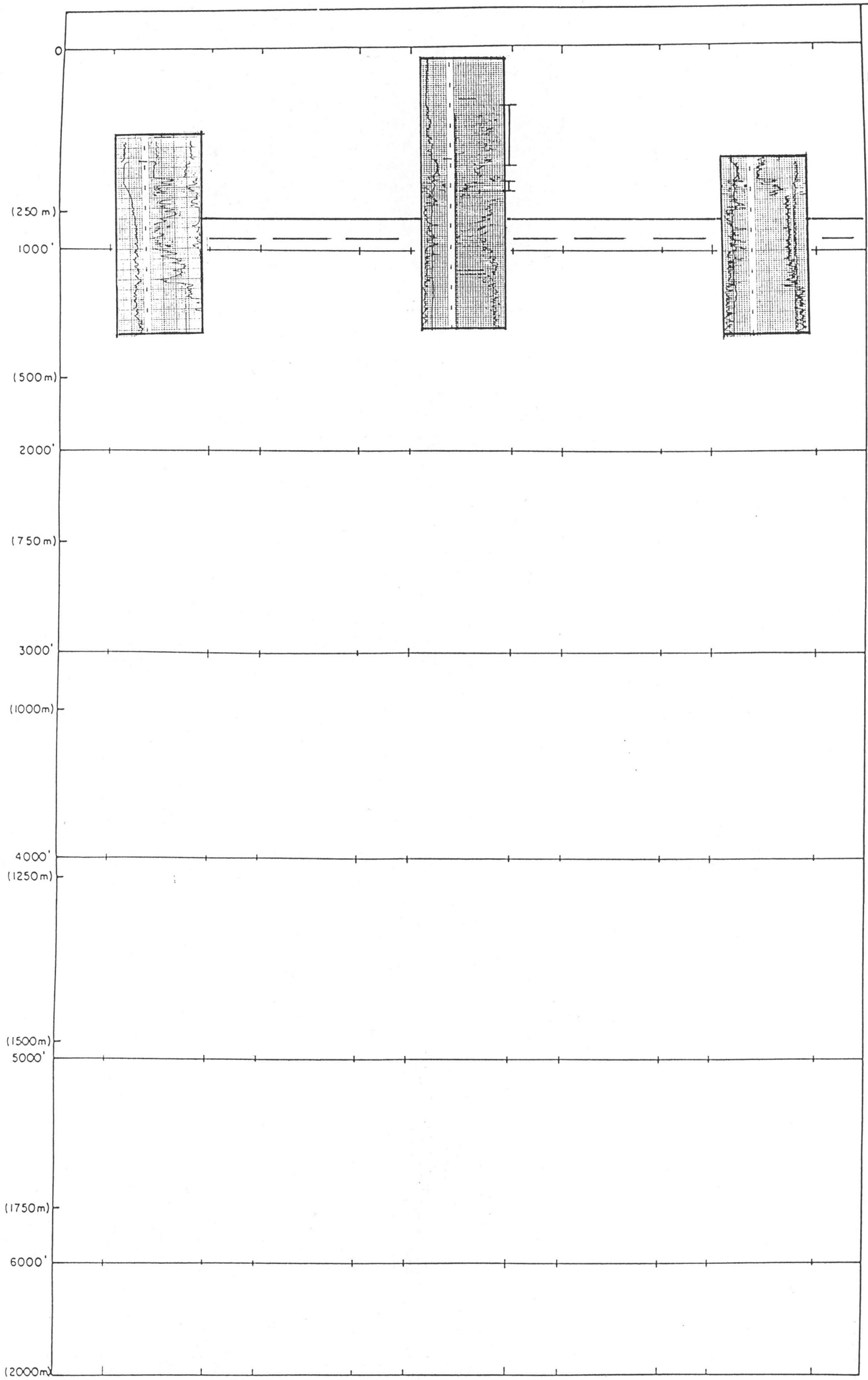
PERMAFROST / GAS HYDRATE STUDY
NORTHWEST TERRITORIES – YUKON

HUME RIVER L-09

CGI0136

FIGURE 113

PERMAFROST / HYDRATES



LOGS (LEFT TO RIGHT)

(A) IND E

(B)

(C) BHCS

(D)

(E) FDEN

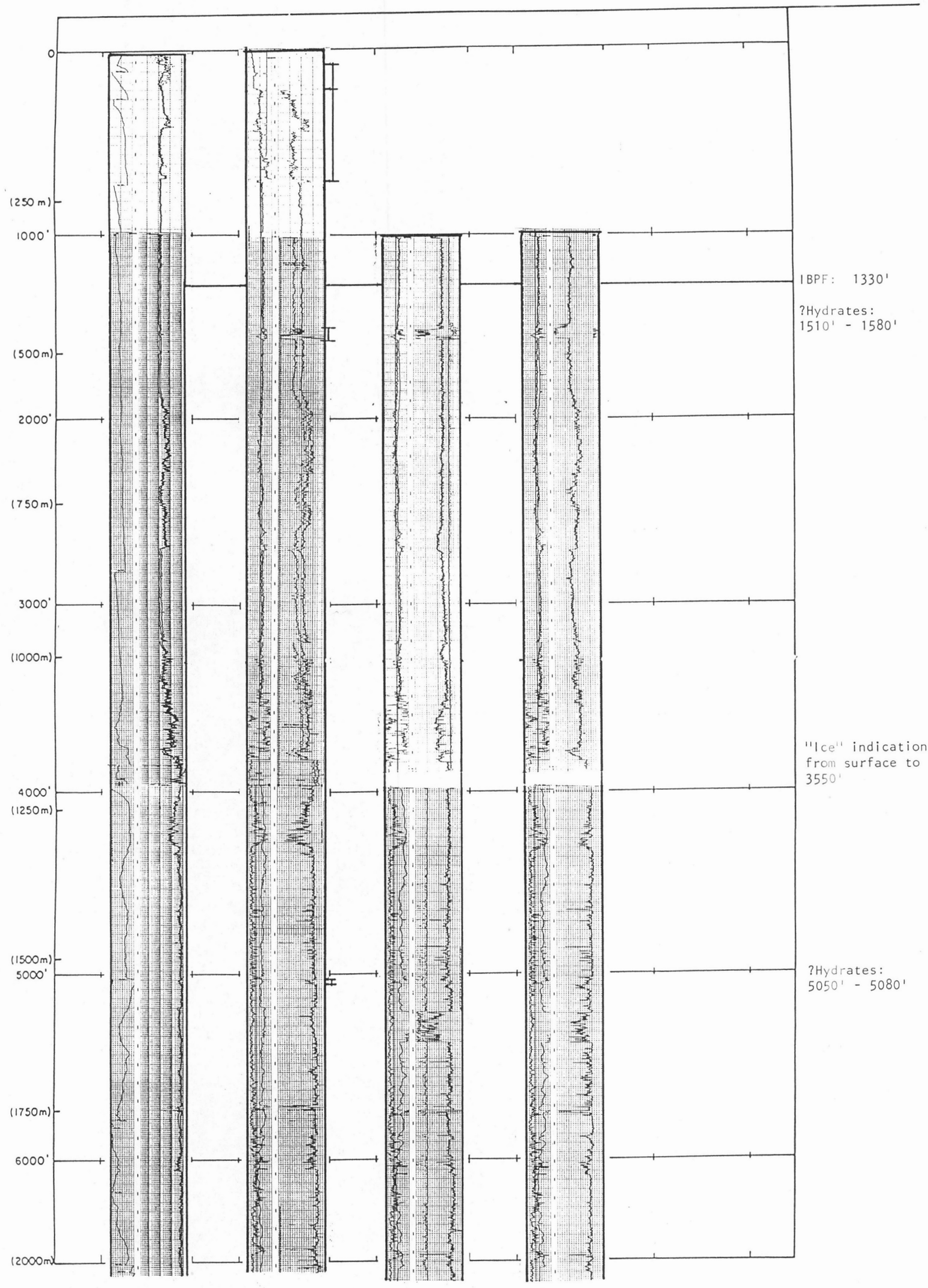
HARDY ASSOCIATES (1978) LTD.
CONSULTING ENGINEERING & PROFESSIONAL SERVICES

PERMAFROST / GAS HYDRATE STUDY
NORTHWEST TERRITORIES - YUKON

OSCAR CREEK H-71

CG10136

FIGURE 114



LOGS (LEFT TO RIGHT)

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

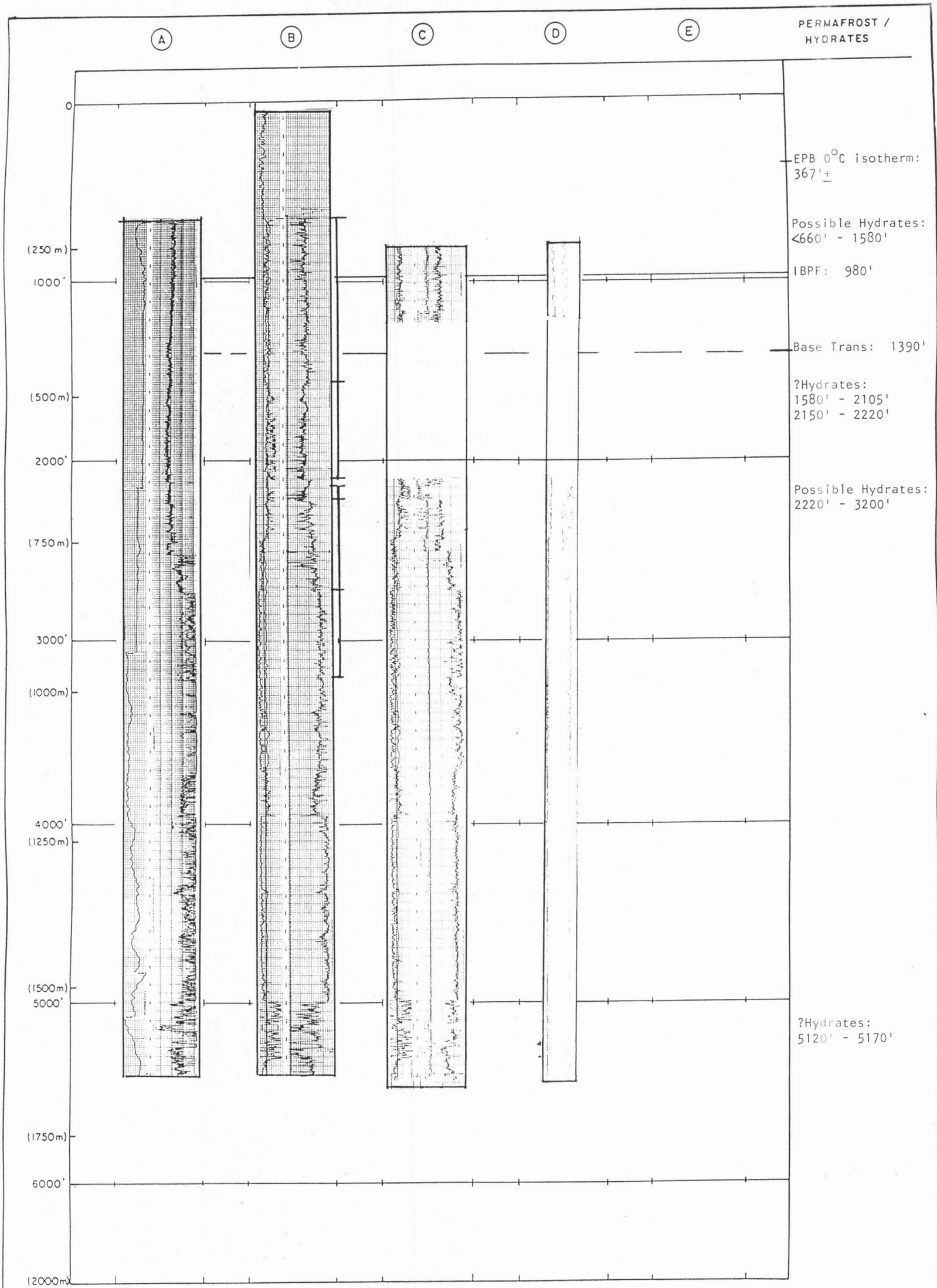
HARDY ASSOCIATES (1978) LTD.
CONSULTING ENGINEERING & PROFESSIONAL SERVICES

PERMAFROST / GAS HYDRATE STUDY
NORTHWEST TERRITORIES – YUKON

CRANSWICK A-22

CGI0136

FIGURE 115



LOGS (LEFT TO RIGHT)

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

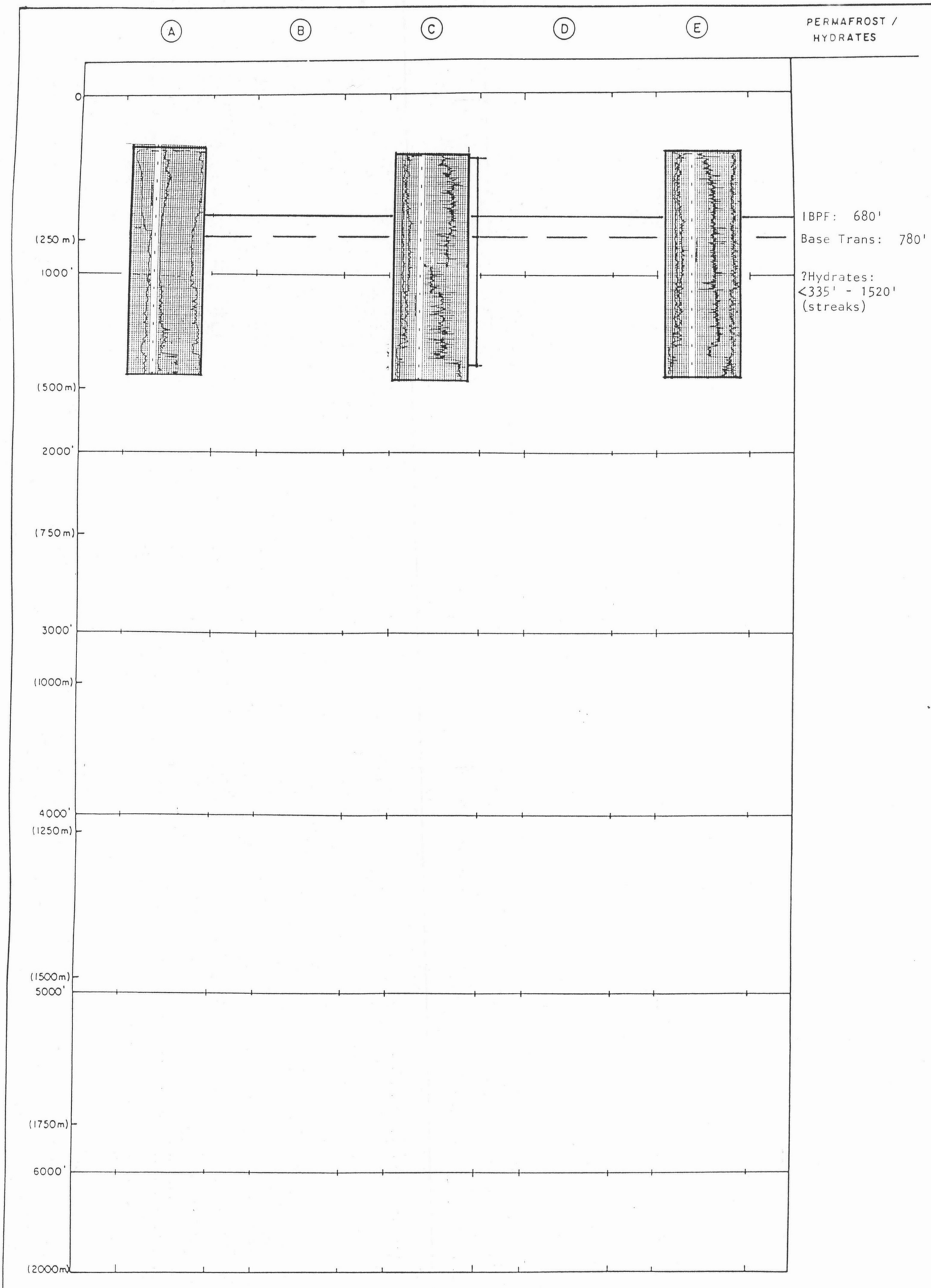
HARDY ASSOCIATES (1978) LTD.
CONSULTING ENGINEERING & PROFESSIONAL SERVICES

PERMAFROST / GAS HYDRATE STUDY
NORTHWEST TERRITORIES – YUKON

WHITEFISH RIVER H-34

CG10136

FIGURE 116



LOGS (LEFT TO RIGHT)

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

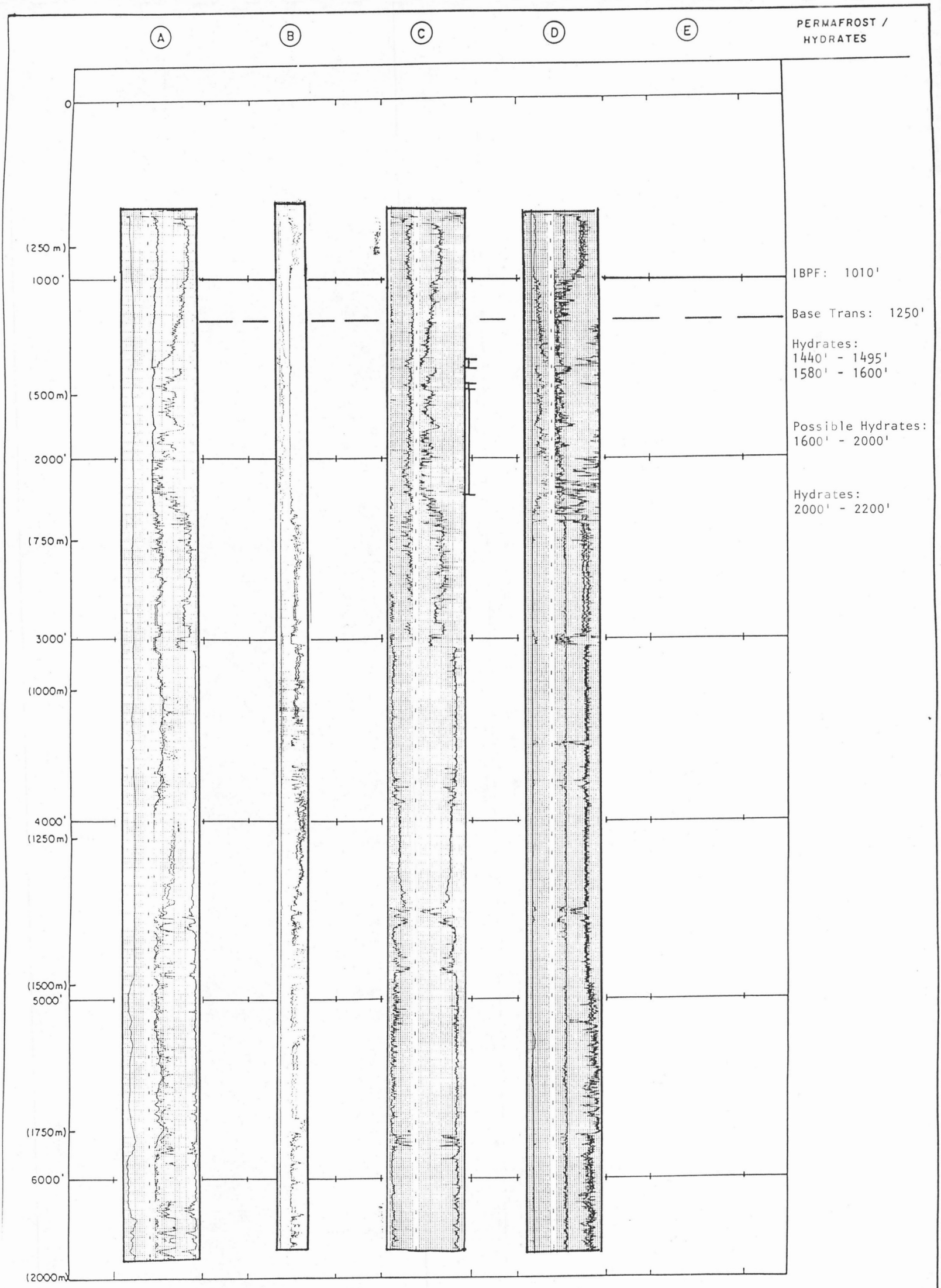
HARDY ASSOCIATES (1978) LTD.
CONSULTING ENGINEERING & PROFESSIONAL SERVICES

PERMAFROST / GAS HYDRATE STUDY
NORTHWEST TERRITORIES - YUKON

WHITE M-04

CGI0136

FIGURE 117



LOGS (LEFT TO RIGHT)

- (A) IND E
- (B) ML-C
- (C) BHCS
- (D) FDEN
- (E)

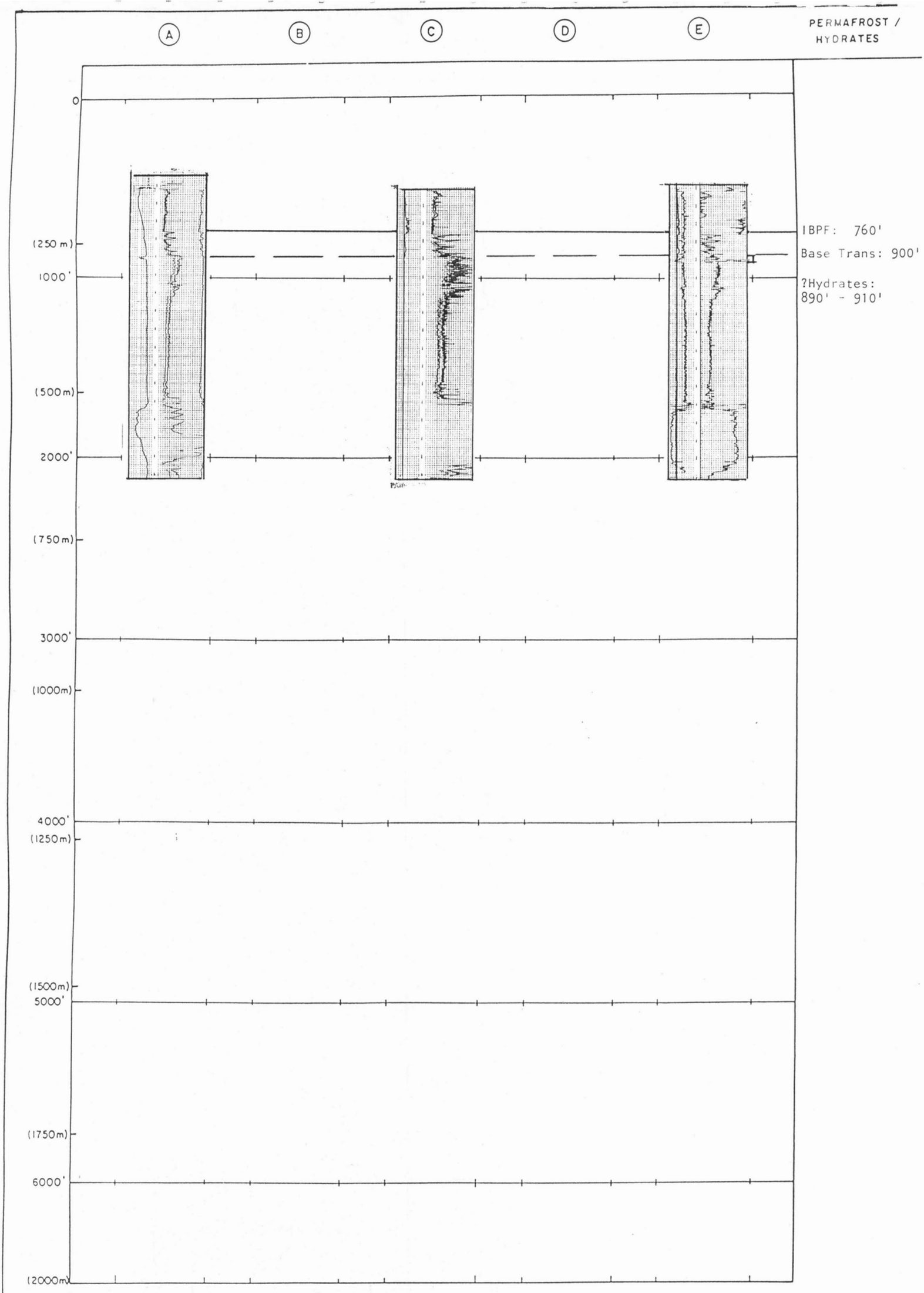
HARDY ASSOCIATES (1978) LTD.
CONSULTING ENGINEERING & PROFESSIONAL SERVICES

PERMAFROST / GAS HYDRATE STUDY
NORTHWEST TERRITORIES - YUKON

CARCAJOU L-24

CGI0136

FIGURE 118



LOGS (LEFT TO RIGHT)

- (A) IND E
- (B)
- (C) ML-C
- (D)
- (E) BHCS

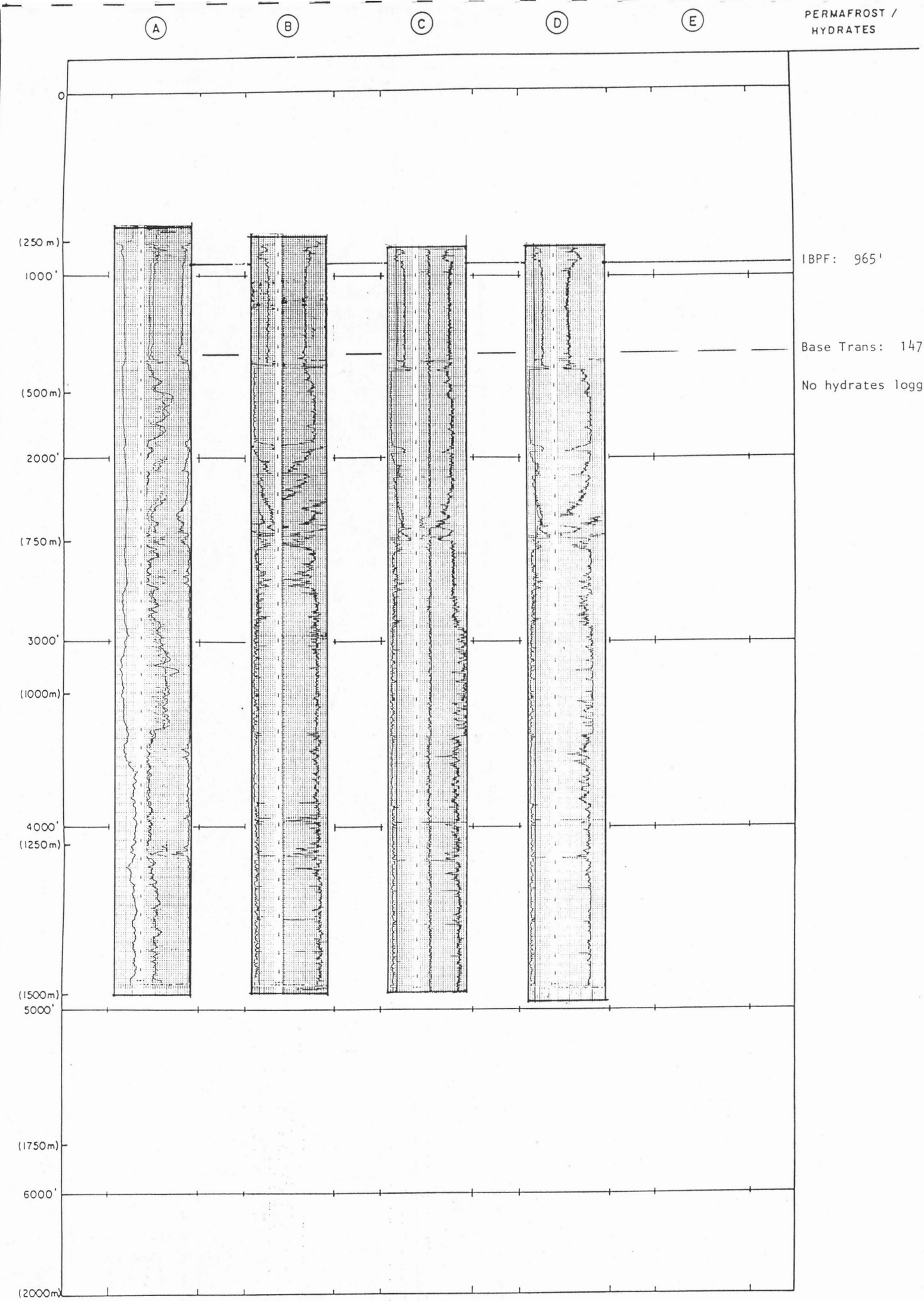
HARDY ASSOCIATES (1978) LTD.
CONSULTING ENGINEERING & PROFESSIONAL SERVICES

PERMAFROST / GAS HYDRATE STUDY
NORTHWEST TERRITORIES - YUKON

MAIDA CREEK G-56

CG10136

FIGURE 119



LOGS (LEFT TO RIGHT)

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

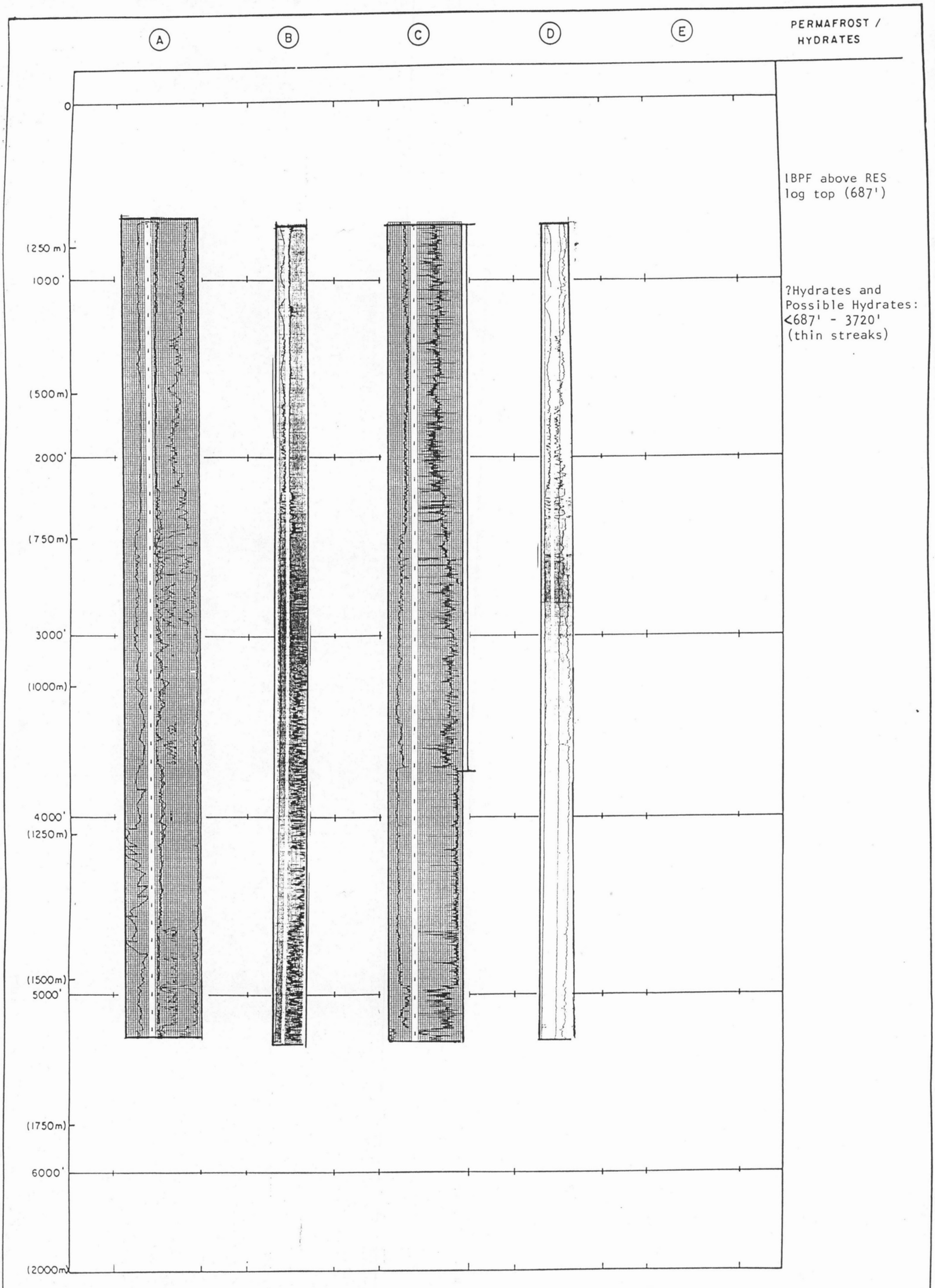
HARDY ASSOCIATES (1978) LTD.
CONSULTING ENGINEERING & PROFESSIONAL SERVICES

PERMAFROST / GAS HYDRATE STUDY
NORTHWEST TERRITORIES – YUKON

MAIDA CREEK F-57

CGI0136

FIGURE 120



LOGS (LEFT TO RIGHT)

- (A) IND E
- (B) MIN C
- (C) AC GR
- (D) DEN
- (E)

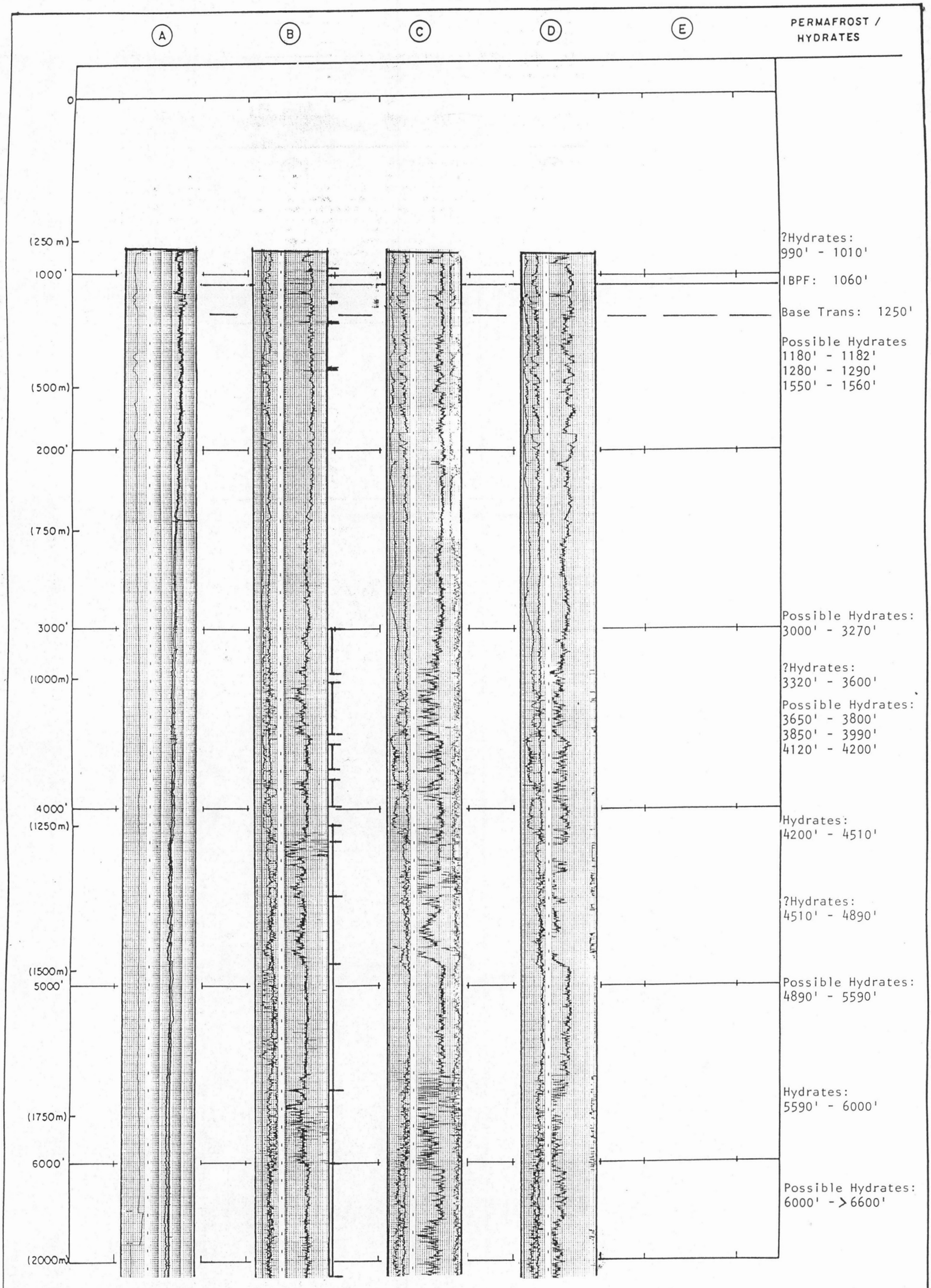
HARDY ASSOCIATES (1978) LTD.
CONSULTING ENGINEERING & PROFESSIONAL SERVICES

PERMAFROST / GAS HYDRATE STUDY
NORTHWEST TERRITORIES – YUKON

WHITEFISH RIVER K - 76

CGI0136

FIGURE 121



LOGS (LEFT TO RIGHT)

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

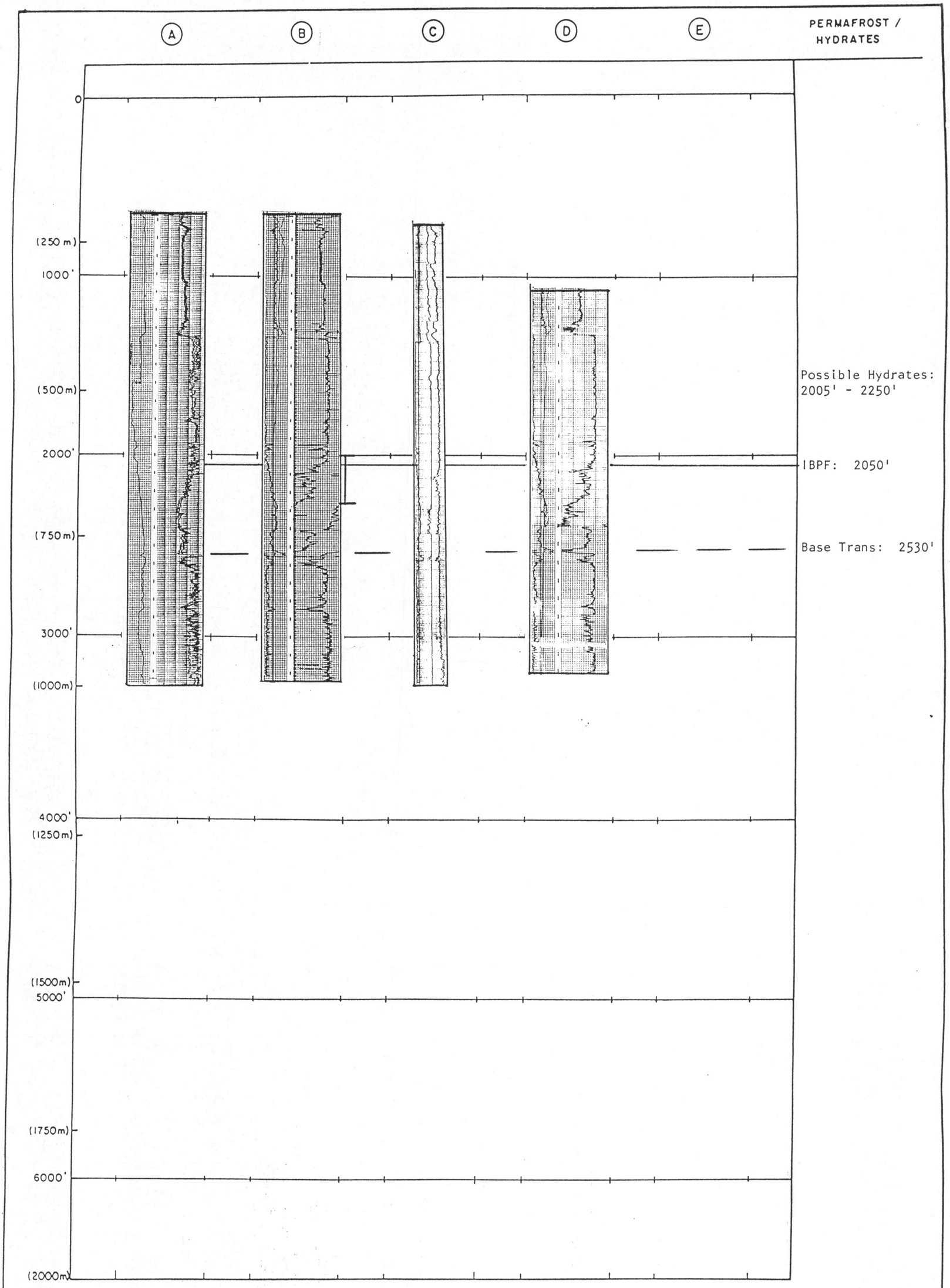
HARDY ASSOCIATES (1978) LTD.
CONSULTING ENGINEERING & PROFESSIONAL SERVICES

PERMAFROST / GAS HYDRATE STUDY
NORTHWEST TERRITORIES – YUKON

ARCTIC RED F-47

CG10136

FIGURE 122



LOGS (LEFT TO RIGHT)

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

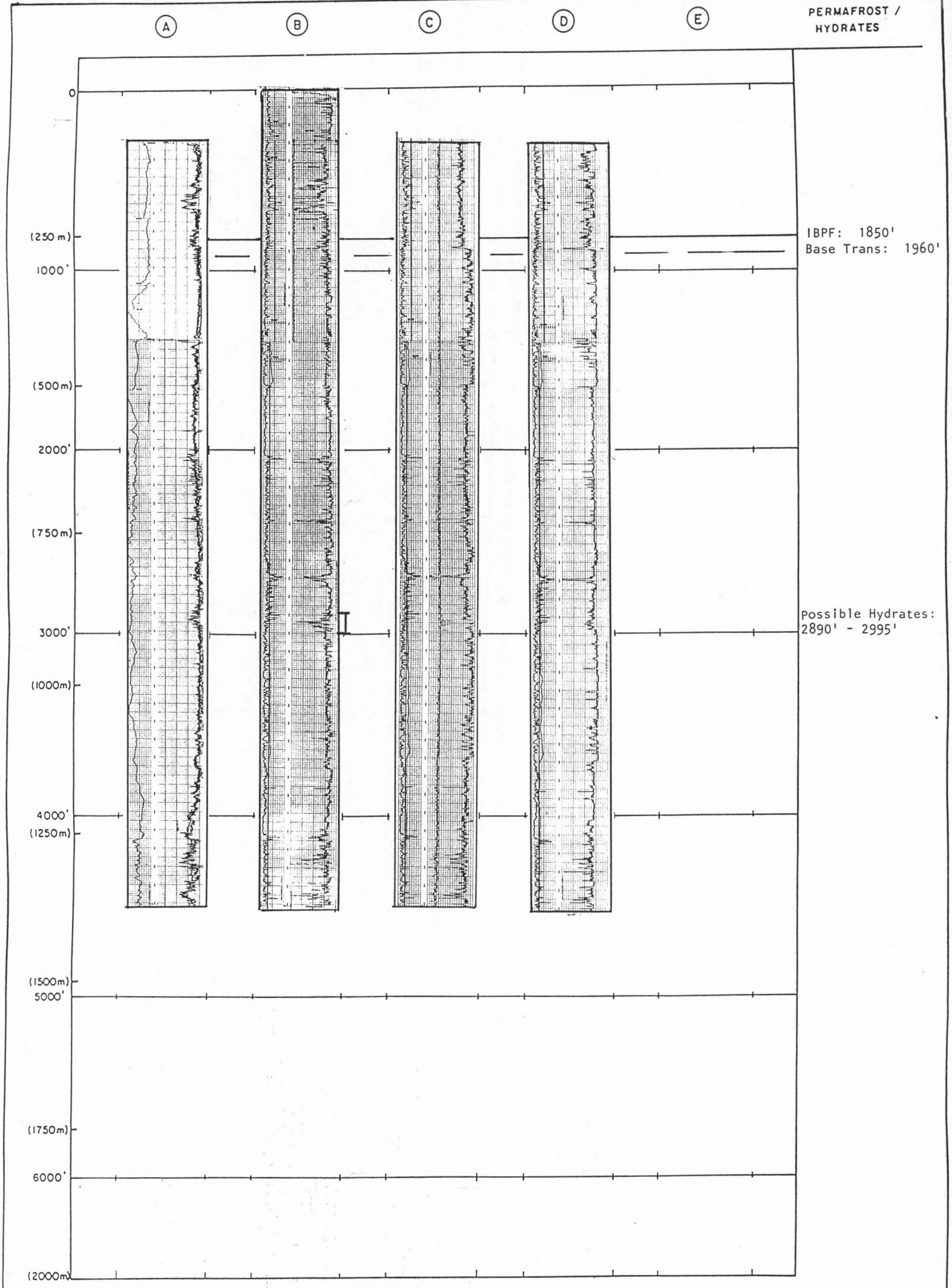
HARDY ASSOCIATES (1978) LTD.
CONSULTING ENGINEERING & PROFESSIONAL SERVICES

PERMAFROST / GAS HYDRATE STUDY
NORTHWEST TERRITORIES - YUKON

CARCAJOU J-27

CGI0136

FIGURE 123



LOGS (LEFT TO RIGHT)

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

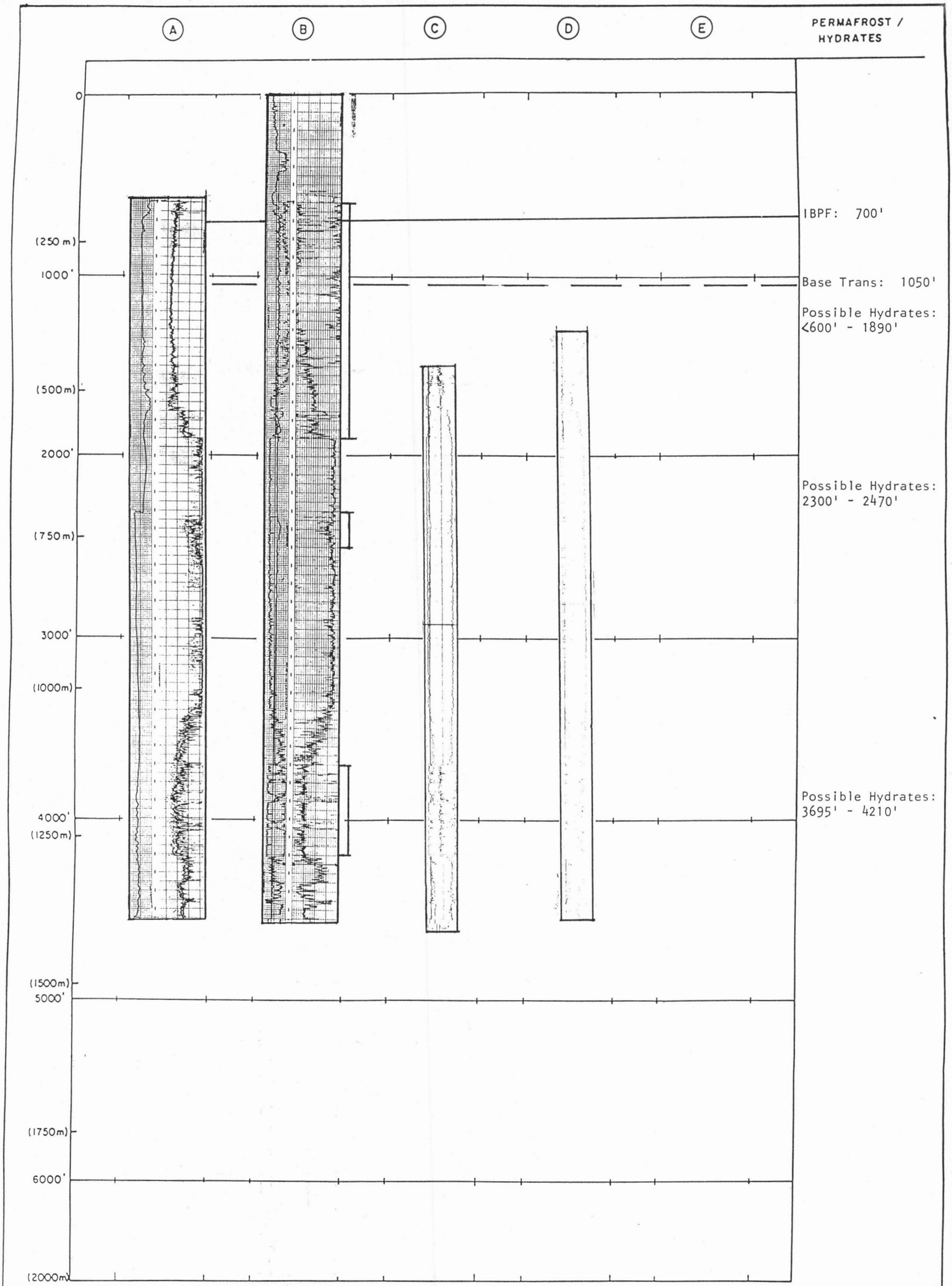
HARDY ASSOCIATES (1978) LTD.
CONSULTING ENGINEERING & PROFESSIONAL SERVICES

PERMAFROST / GAS HYDRATE STUDY
NORTHWEST TERRITORIES – YUKON

CARCAJOU K-68

CGI0136

FIGURE 124



LOGS (LEFT TO RIGHT)

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

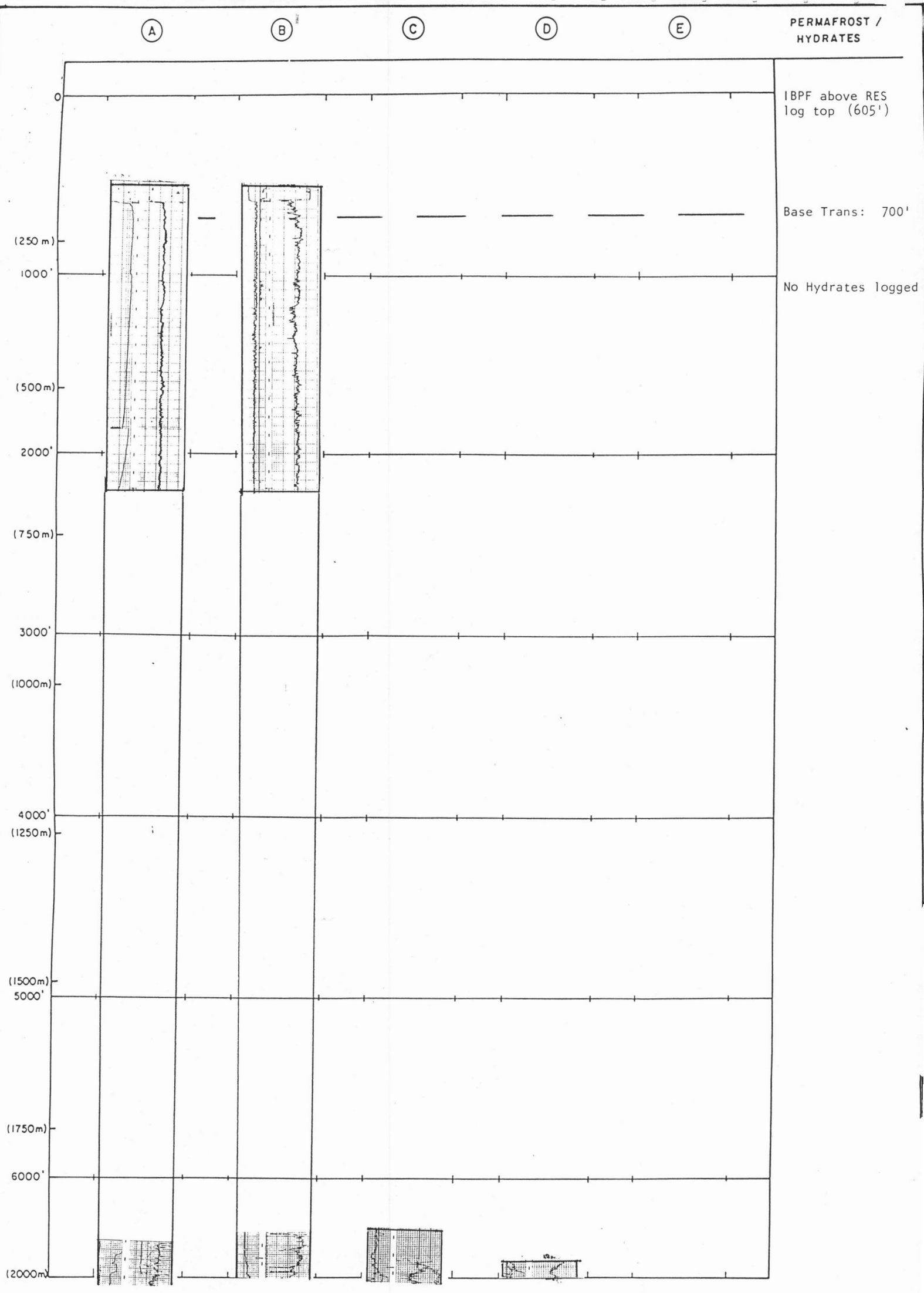
HARDY ASSOCIATES (1978) LTD.
CONSULTING ENGINEERING & PROFESSIONAL SERVICES

PERMAFROST / GAS HYDRATE STUDY
NORTHWEST TERRITORIES – YUKON

LOST HILL LAKE F-62

CGI0136

FIGURE 125



LOGS (LEFT TO RIGHT)

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

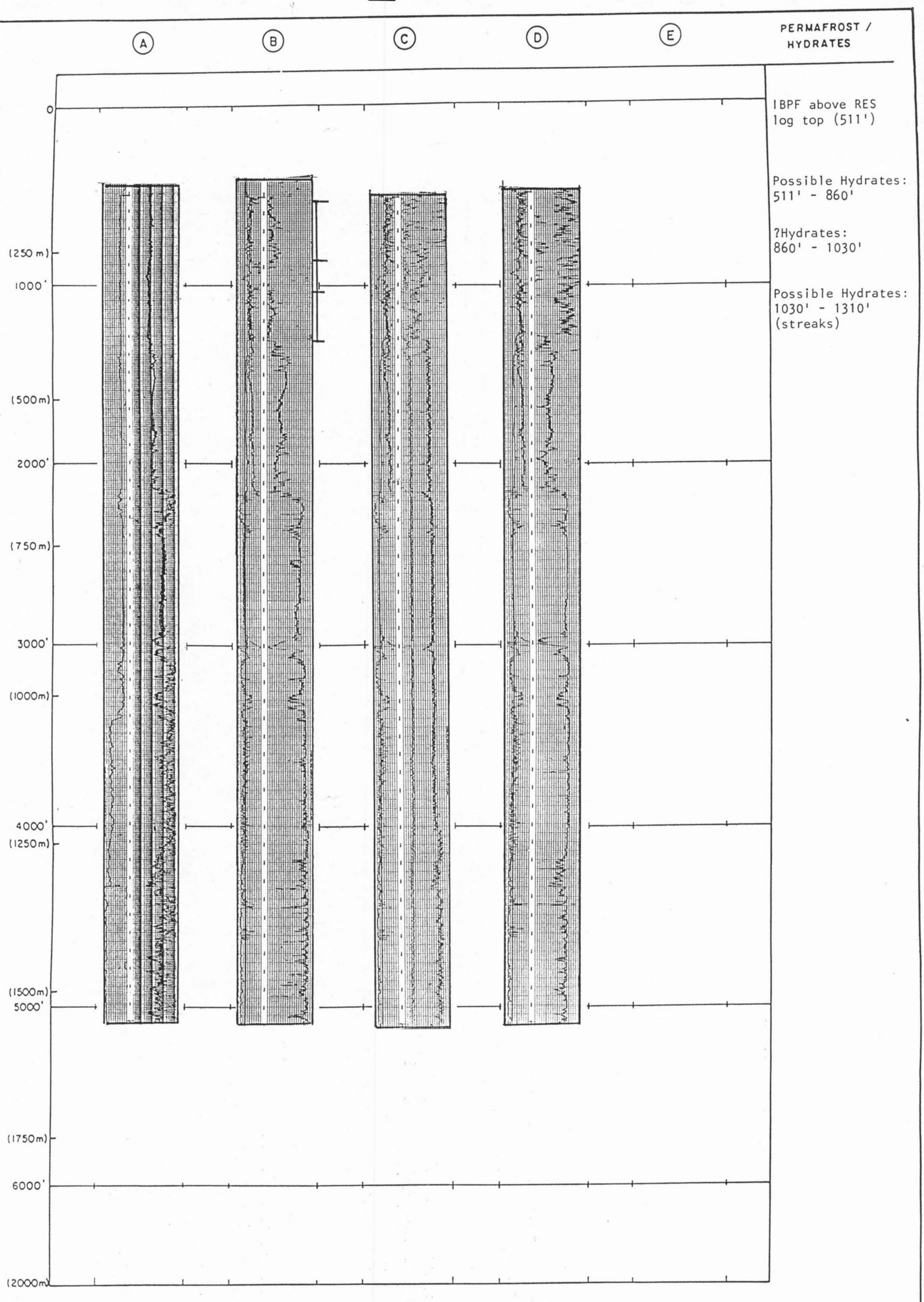
HARDY ASSOCIATES (1978) LTD.
CONSULTING ENGINEERING & PROFESSIONAL SERVICES

PERMAFROST / GAS HYDRATE STUDY
NORTHWEST TERRITORIES – YUKON

CRANSWICK A-42

CG10136

FIGURE 126



LOGS (LEFT TO RIGHT)

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

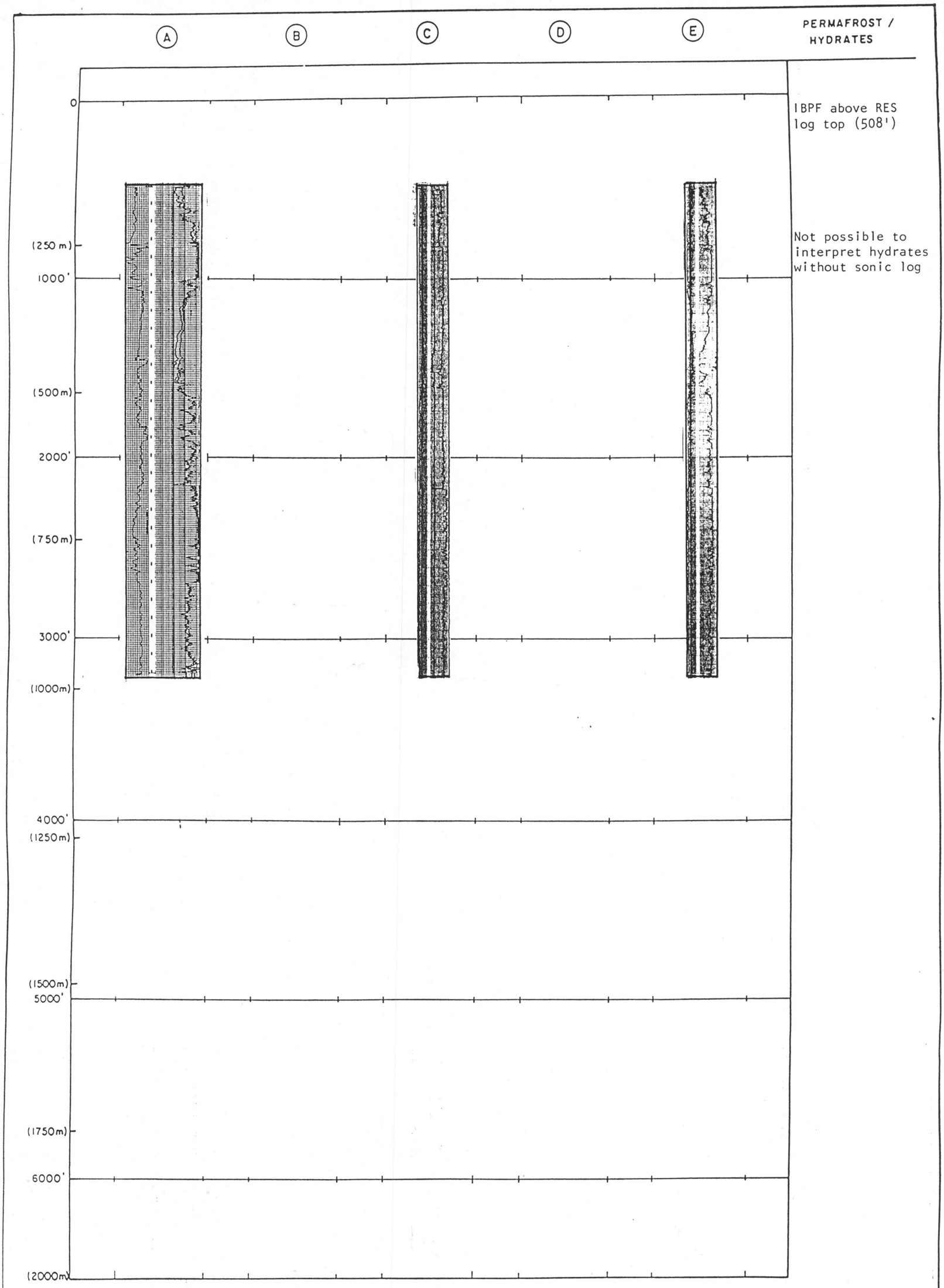
HARDY ASSOCIATES (1978) LTD.
CONSULTING ENGINEERING & PROFESSIONAL SERVICES

PERMAFROST / GAS HYDRATE STUDY
NORTHWEST TERRITORIES – YUKON

MOUNTAIN RIVER A-23

CGI0136

FIGURE 127



LOGS (LEFT TO RIGHT)

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

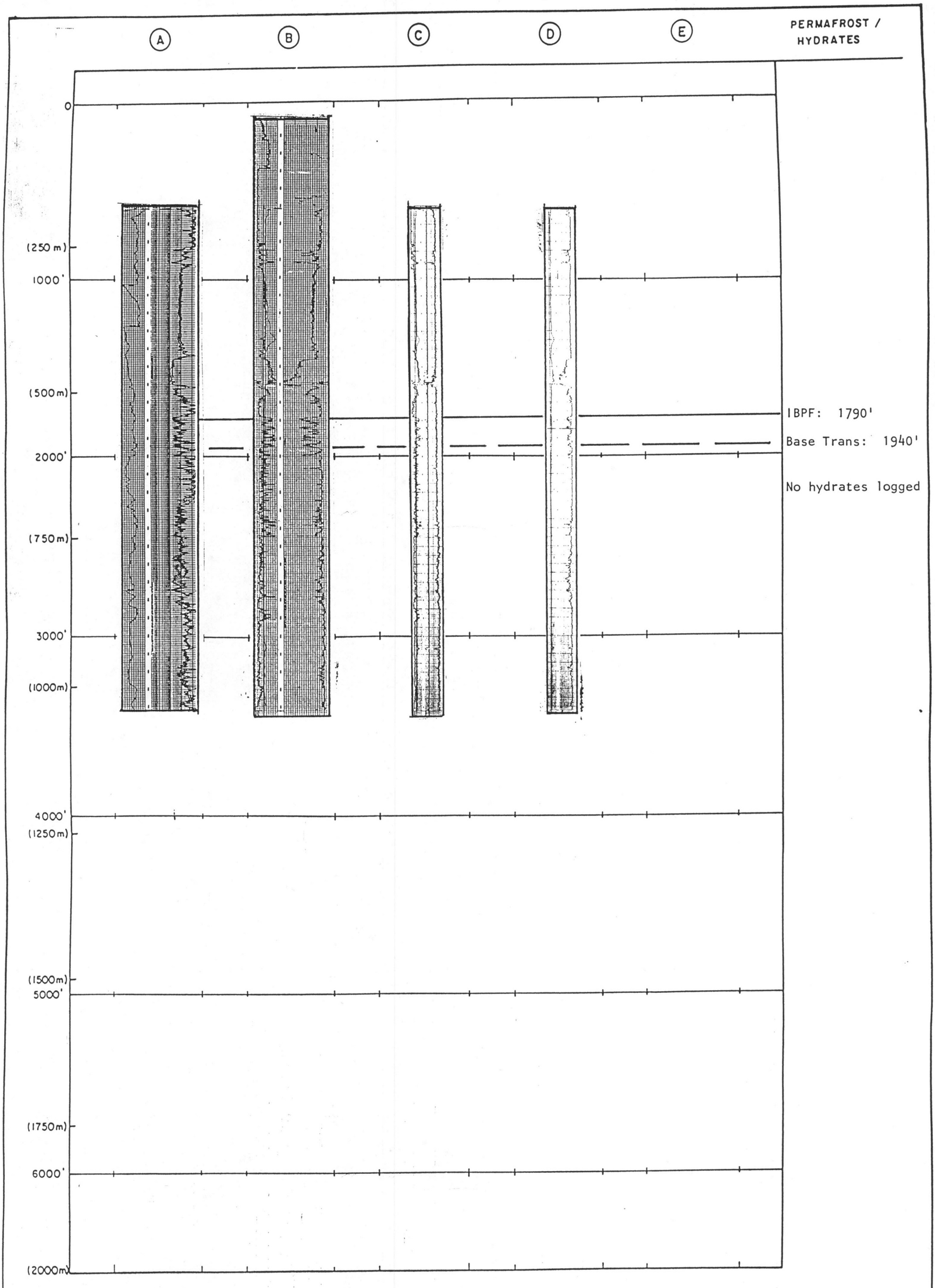
HARDY ASSOCIATES (1978) LTD.
CONSULTING ENGINEERING & PROFESSIONAL SERVICES

PERMAFROST / GAS HYDRATE STUDY
NORTHWEST TERRITORIES – YUKON

HANNA RIVER J-05

CGI0136

FIGURE 128



LOGS (LEFT TO RIGHT)

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

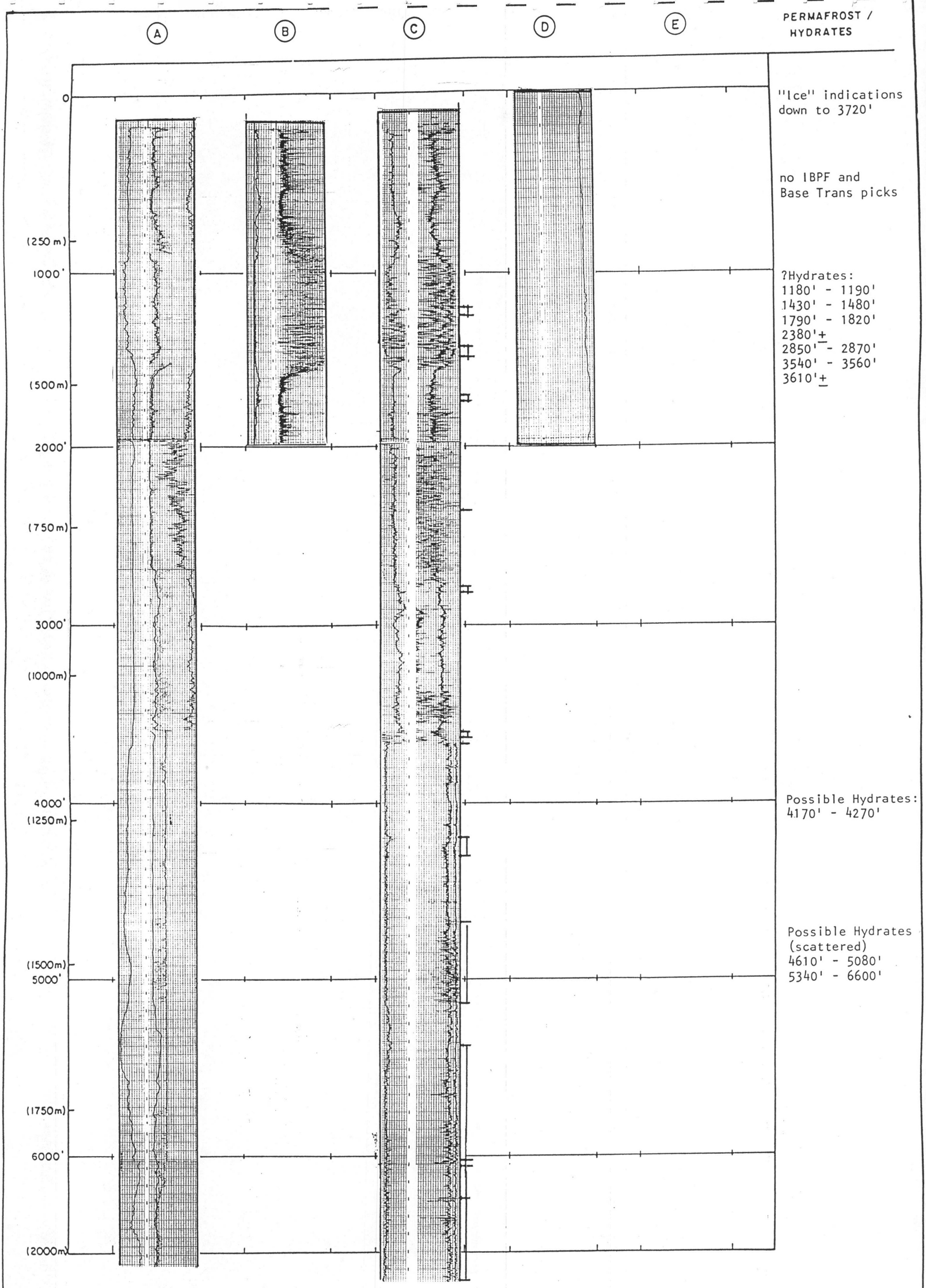
HARDY ASSOCIATES (1978) LTD.
CONSULTING ENGINEERING & PROFESSIONAL SERVICES

PERMAFROST / GAS HYDRATE STUDY
NORTHWEST TERRITORIES – YUKON

MOUNTAIN RIVER H-47

CG10136

FIGURE 129



LOGS (LEFT TO RIGHT)

- (A) IND E
- (B)
- (C) S GR C
- (D) TEMP
- (E)

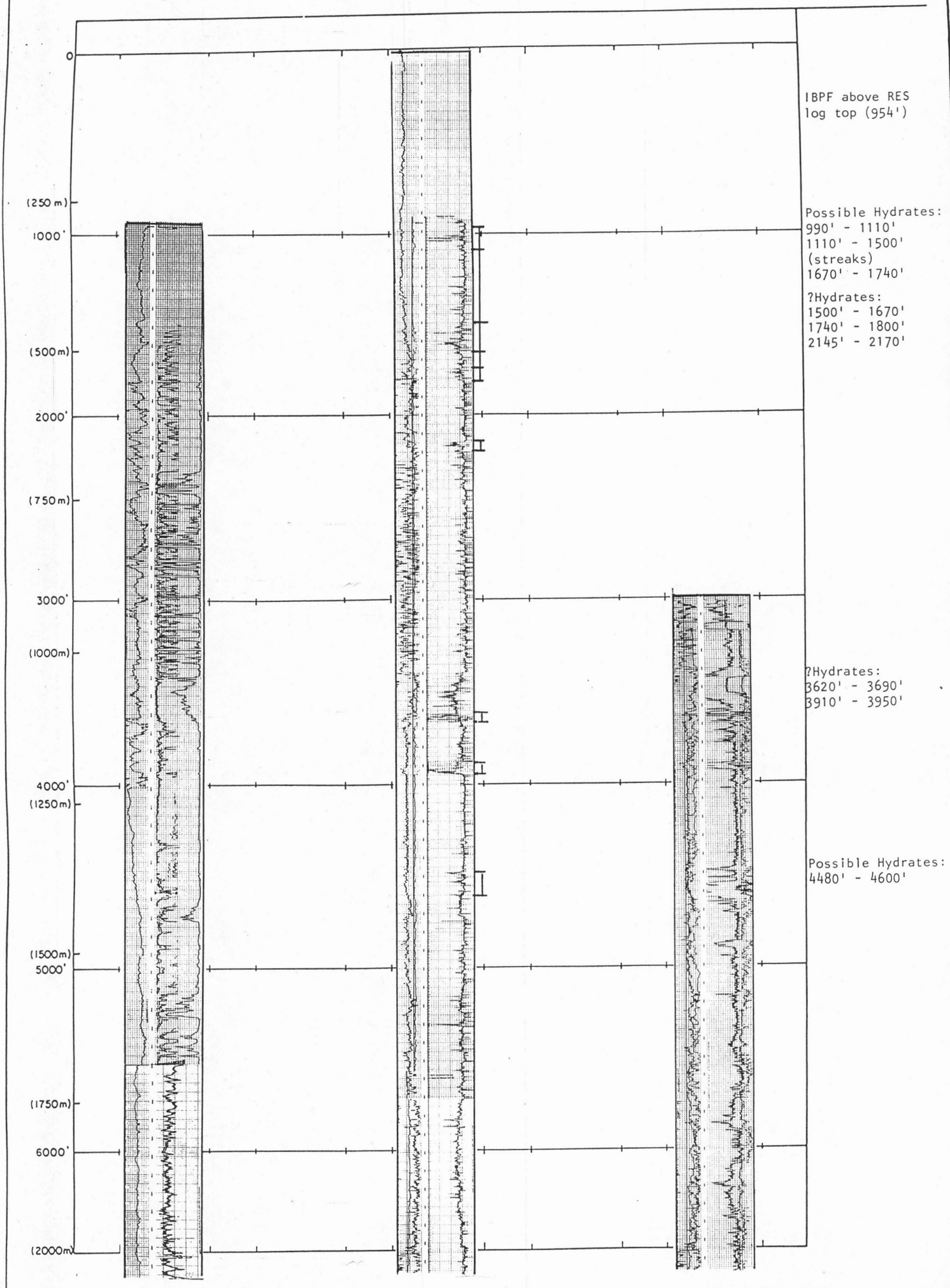
HARDY ASSOCIATES (1978) LTD.
CONSULTING ENGINEERING & PROFESSIONAL SERVICES

PERMAFROST / GAS HYDRATE STUDY
NORTHWEST TERRITORIES – YUKON

BLACKSTONE Y.T. D-77

CG10136

FIGURE 130



LOGS (LEFT TO RIGHT)

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

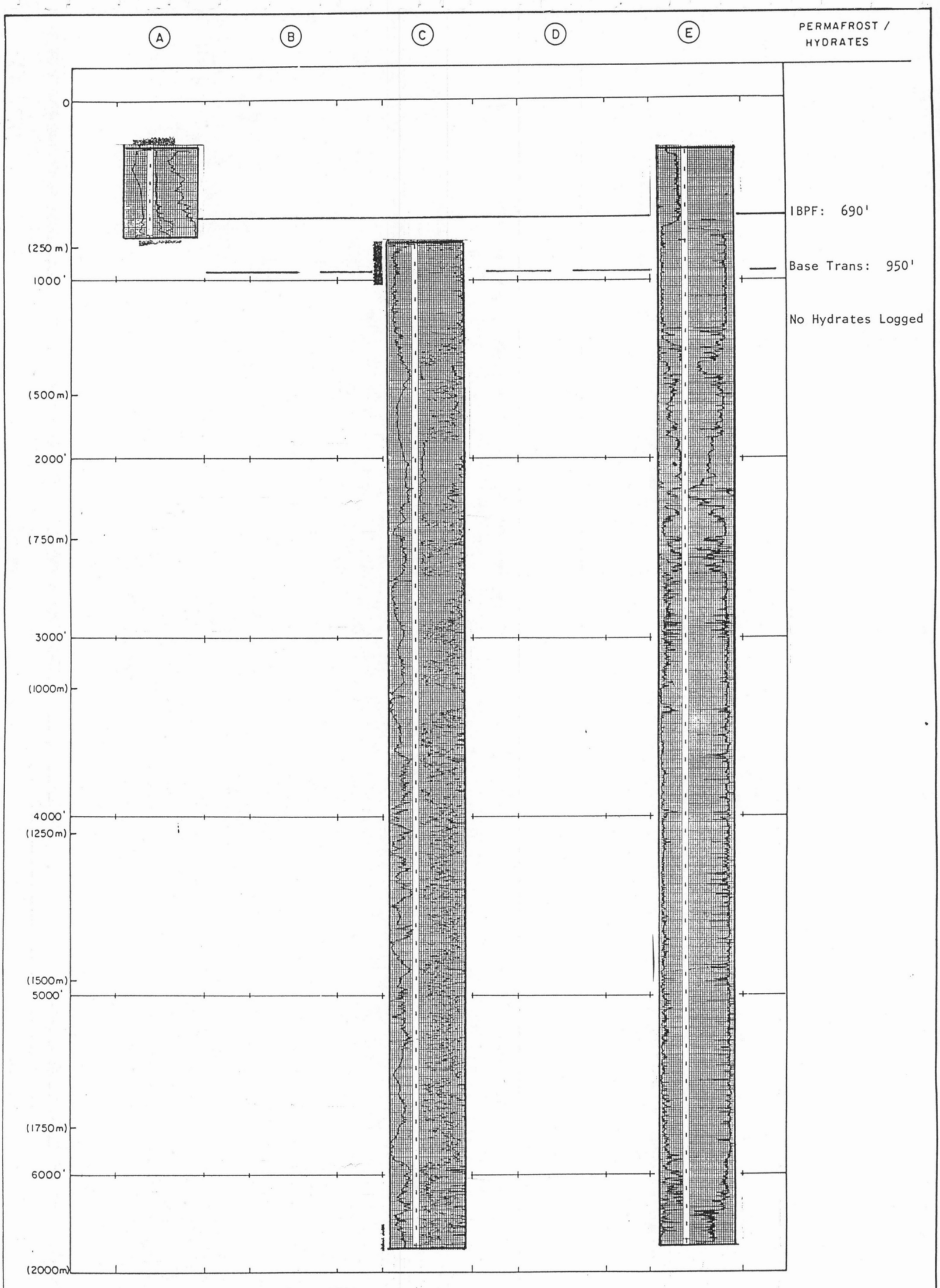
HARDY ASSOCIATES (1978) LTD.
CONSULTING ENGINEERING & PROFESSIONAL SERVICES

PERMAFROST / GAS HYDRATE STUDY
NORTHWEST TERRITORIES – YUKON

MALLARD Y.T. O-18

CGI0136

FIGURE 131



LOGS (LEFT TO RIGHT)

- (A) IND E
- (B)
- (C) LL
- (D)
- (E) BHCS

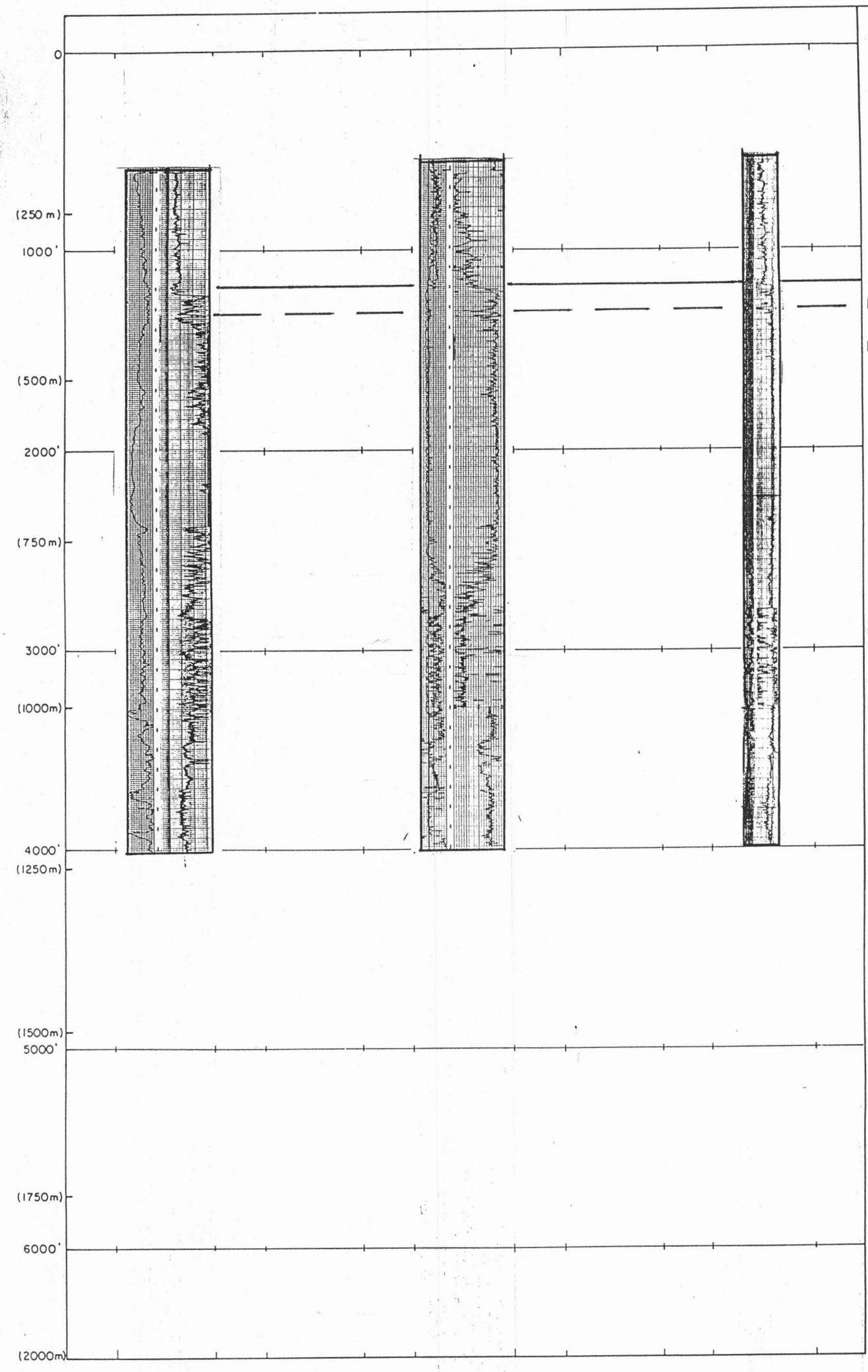
HARDY ASSOCIATES (1978) LTD.
CONSULTING ENGINEERING & PROFESSIONAL SERVICES

PERMAFROST / GAS HYDRATE STUDY
NORTHWEST TERRITORIES - YUKON

SHOALS C-31

CGI0136

FIGURE 132



LOGS (LEFT TO RIGHT)

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

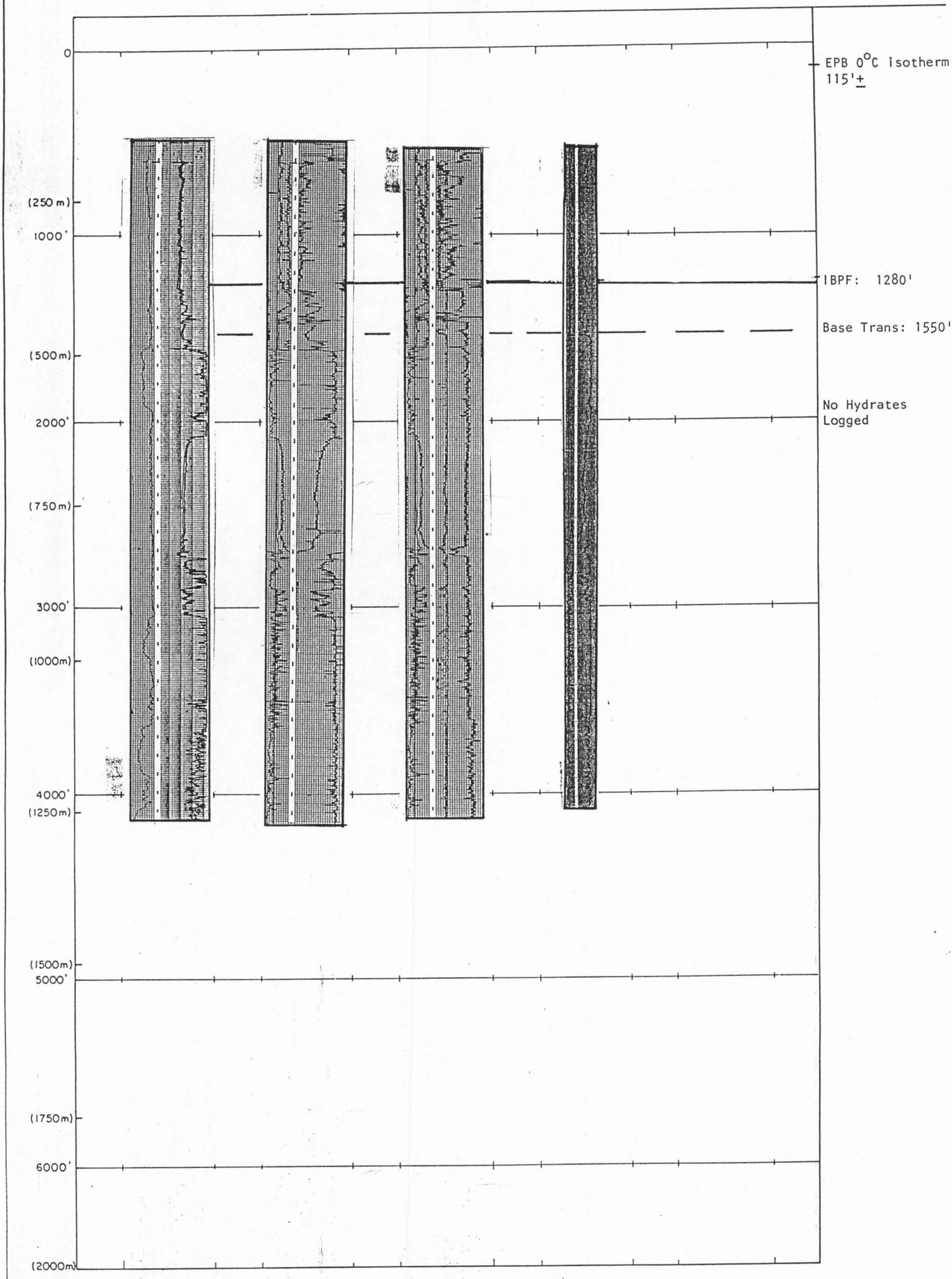
HARDY ASSOCIATES (1978) LTD.
CONSULTING ENGINEERING & PROFESSIONAL SERVICES

PERMAFROST / GAS HYDRATE STUDY
NORTHWEST TERRITORIES – YUKON

LOSH LAKE G-22

CGI0136

FIGURE 133



LOGS (LEFT TO RIGHT)

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

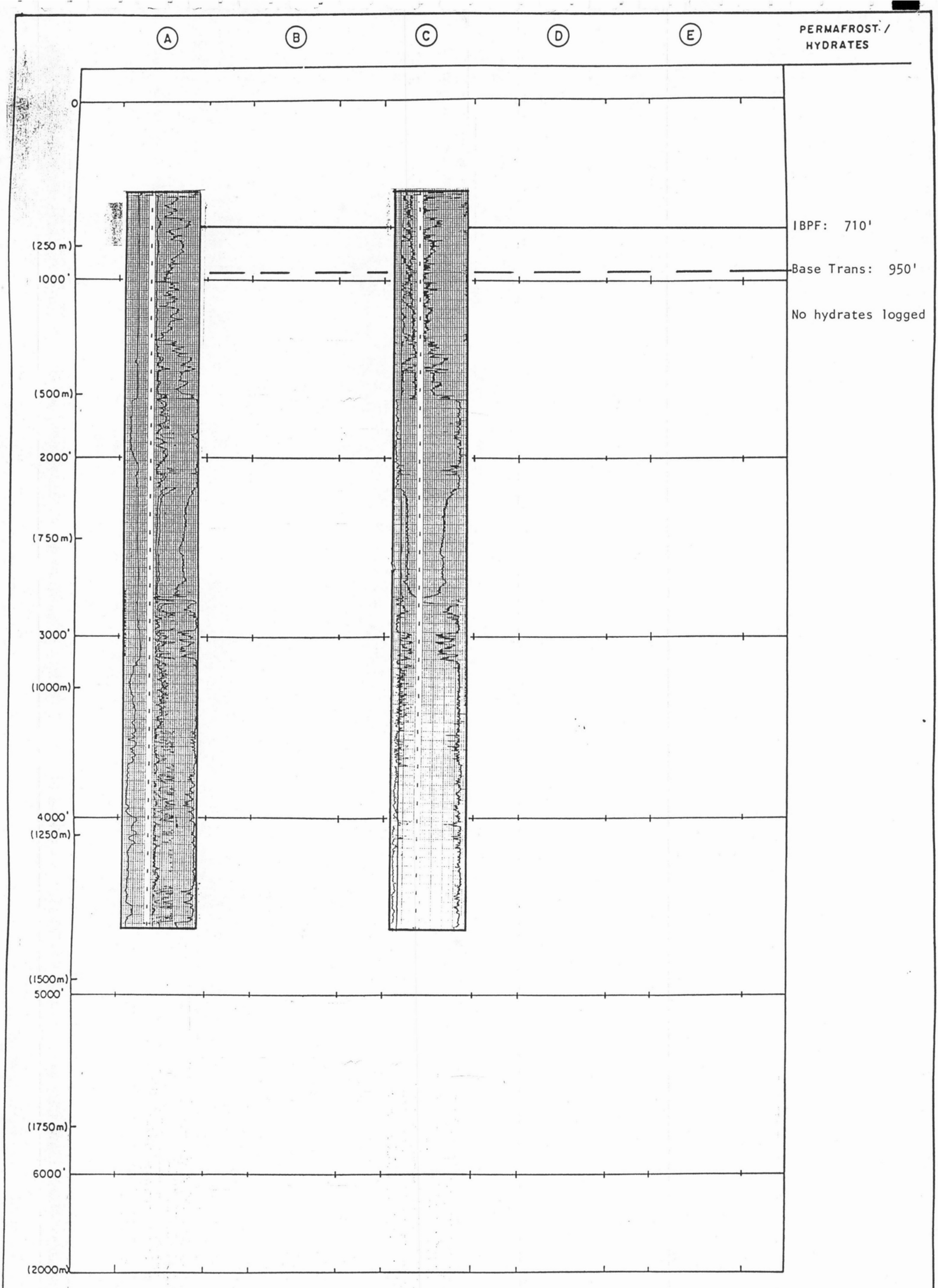
HARDY ASSOCIATES (1978) LTD.
CONSULTING ENGINEERING & PROFESSIONAL SERVICES

PERMAFROST / GAS HYDRATE STUDY
NORTHWEST TERRITORIES – YUKON

HUME RIVER D-53

CGI0136

FIGURE 134



LOGS (LEFT TO RIGHT)

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

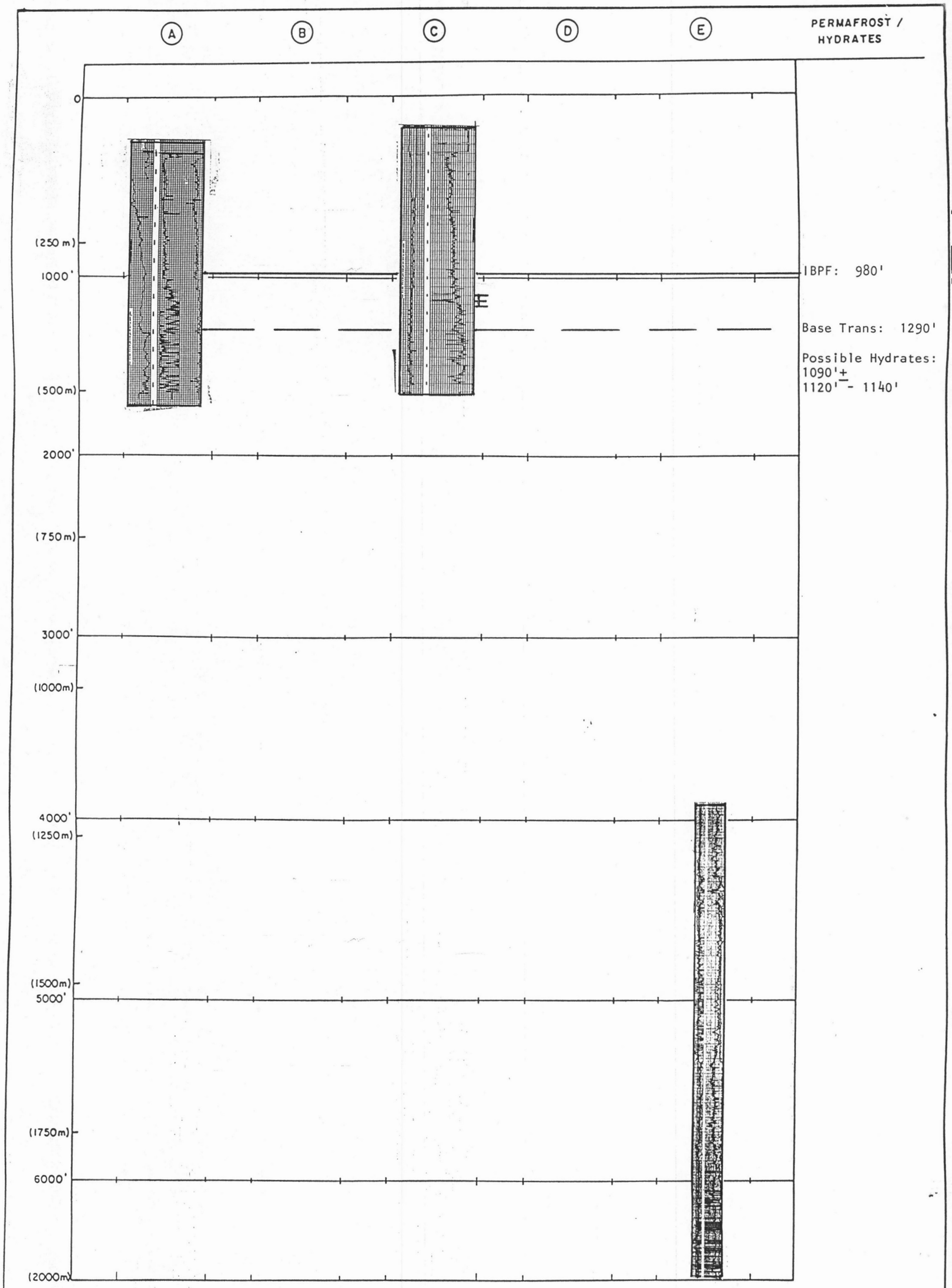
HARDY ASSOCIATES (1978) LTD.
CONSULTING ENGINEERING & PROFESSIONAL SERVICES

PERMAFROST / GAS HYDRATE STUDY
NORTHWEST TERRITORIES – YUKON

HUME RIVER O-62

CG10136

FIGURE 135



LOGS (LEFT TO RIGHT)

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

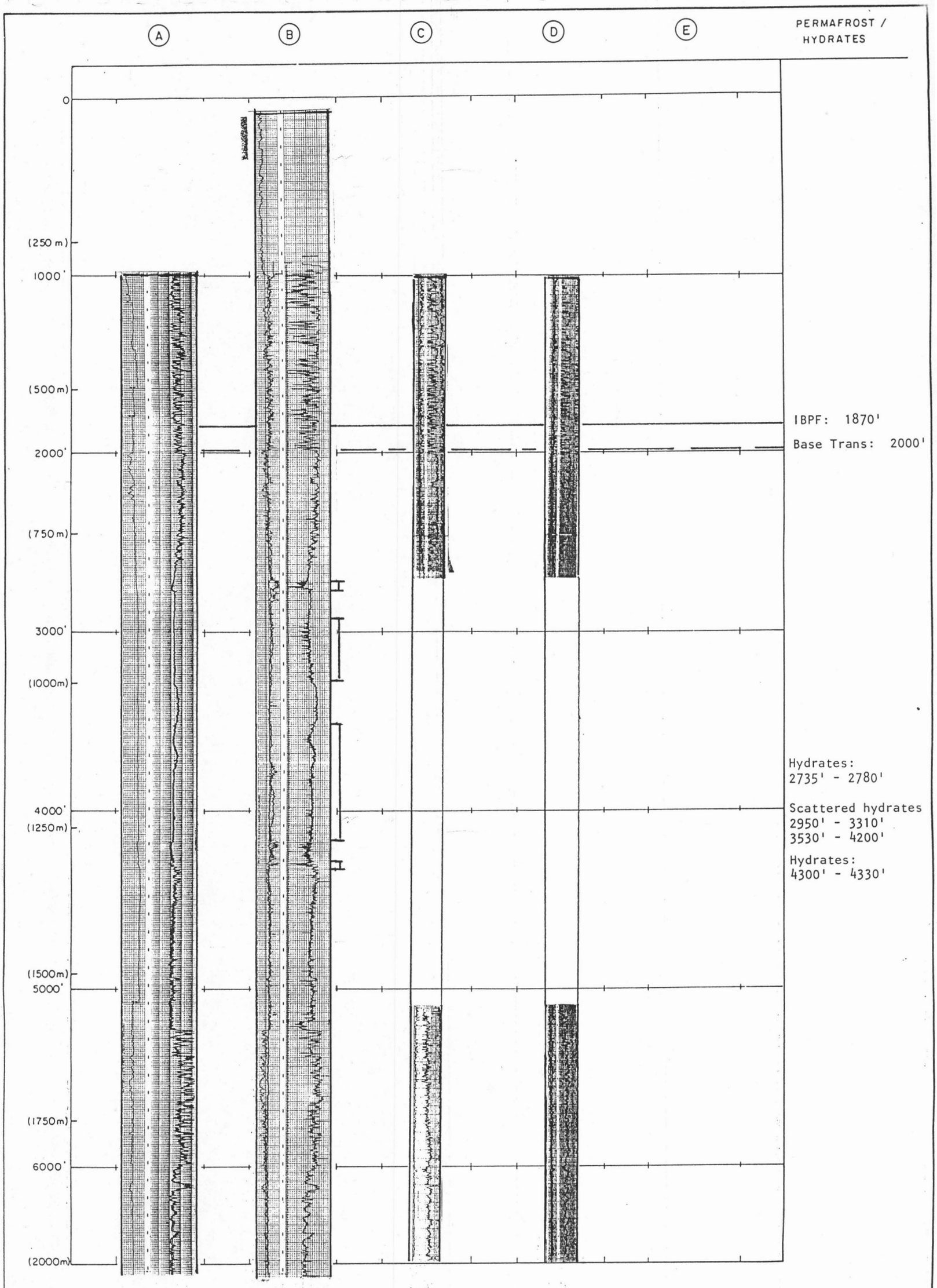
HARDY ASSOCIATES (1978) LTD.
CONSULTING ENGINEERING & PROFESSIONAL SERVICES

PERMAFROST / GAS HYDRATE STUDY
NORTHWEST TERRITORIES - YUKON

ALDER Y.T. C-33

CGI0136

FIGURE 136



LOGS (LEFT TO RIGHT)

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

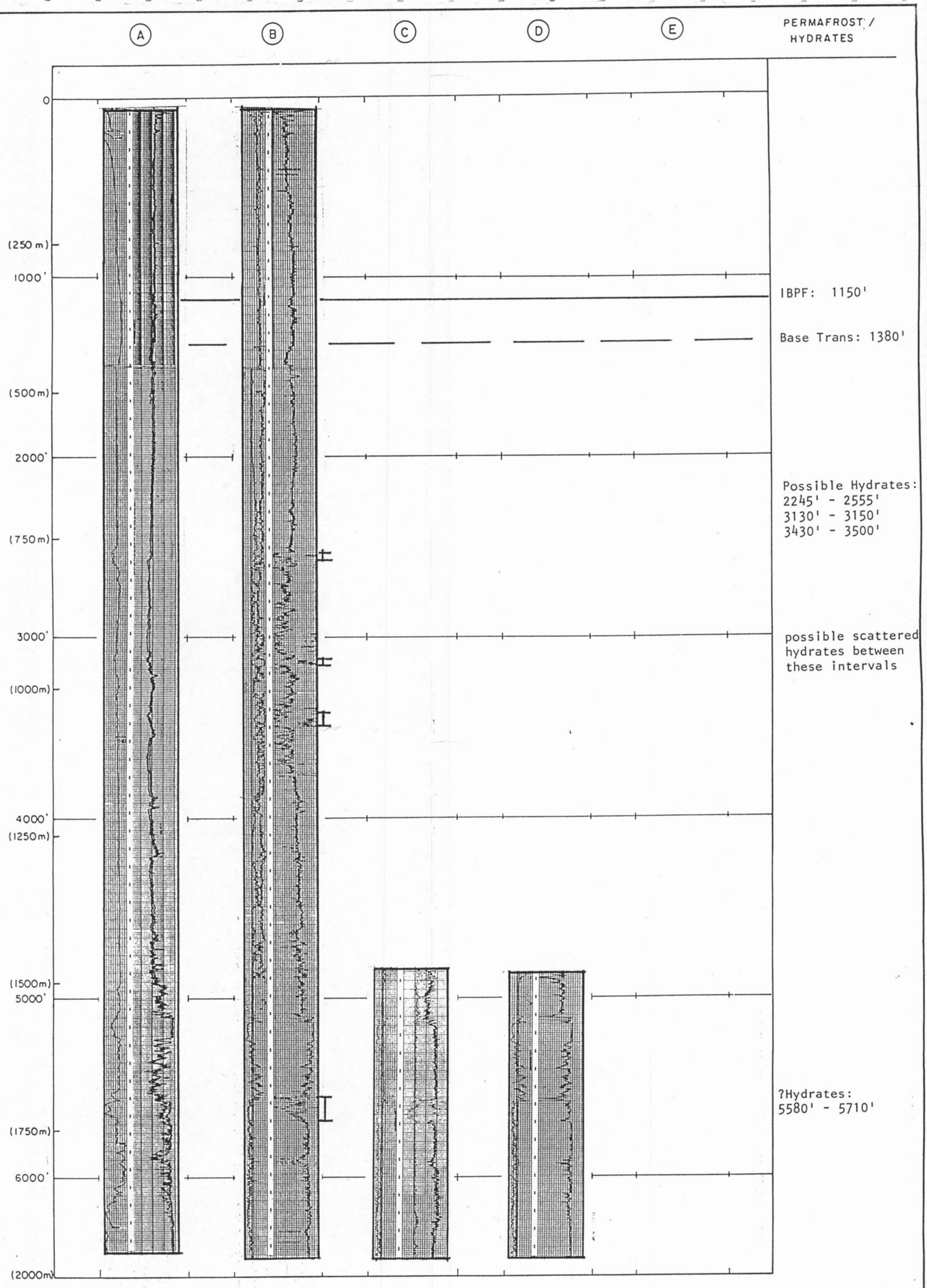
HARDY ASSOCIATES (1978) LTD.
CONSULTING ENGINEERING & PROFESSIONAL SERVICES

PERMAFROST / GAS HYDRATE STUDY
NORTHWEST TERRITORIES – YUKON

S. CHANCE Y.T. D-63

CG10136

FIGURE 137



LOGS (LEFT TO RIGHT)

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

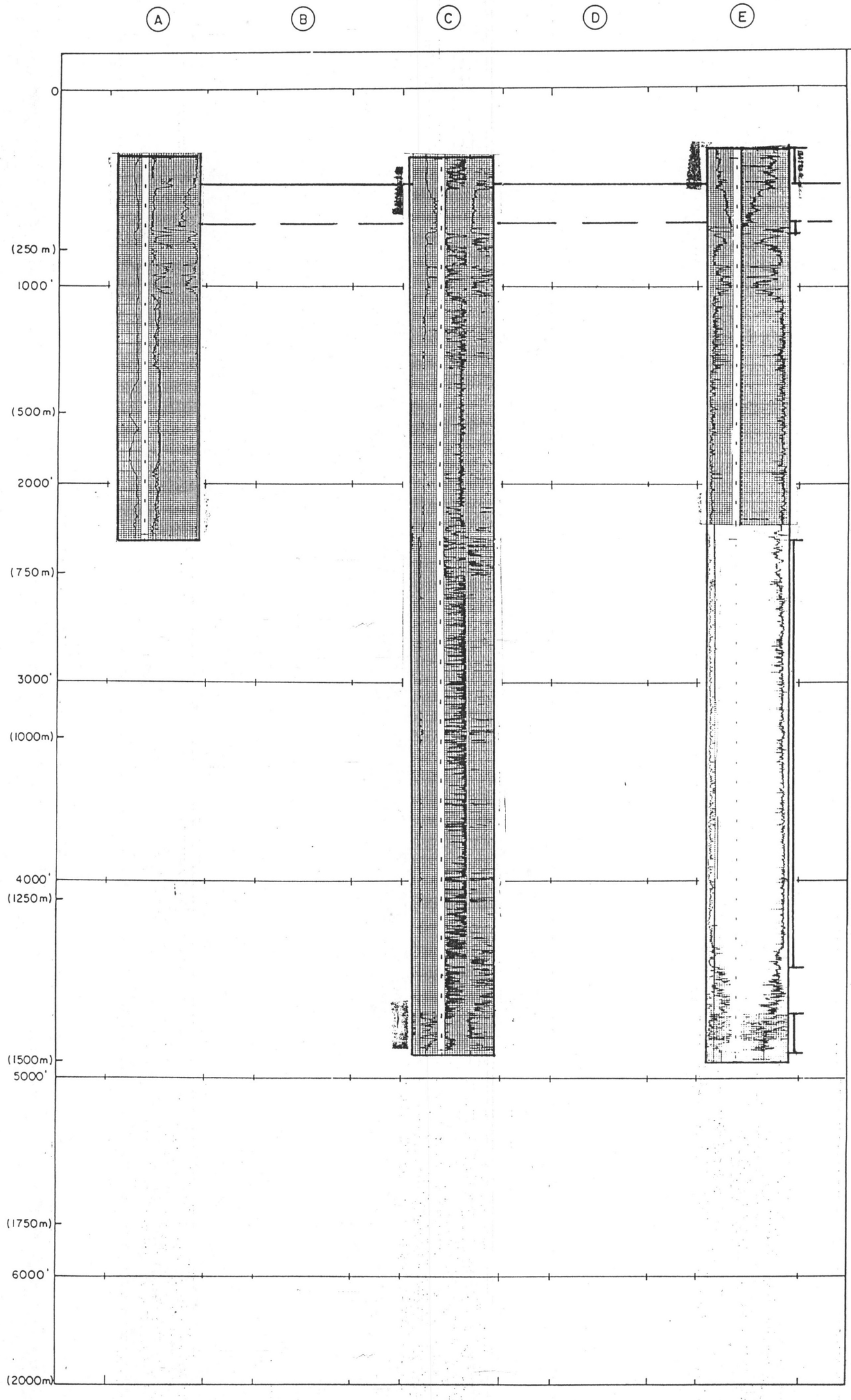
HARDY ASSOCIATES (1978) LTD.
CONSULTING ENGINEERING & PROFESSIONAL SERVICES

PERMAFROST / GAS HYDRATE STUDY
NORTHWEST TERRITORIES – YUKON

SOUTH PEEL D-64

CGIO136

FIGURE 138



LOGS (LEFT TO RIGHT)

Ⓐ LND E

Ⓑ

Ⓒ M LL

Ⓓ

Ⓔ BHCS

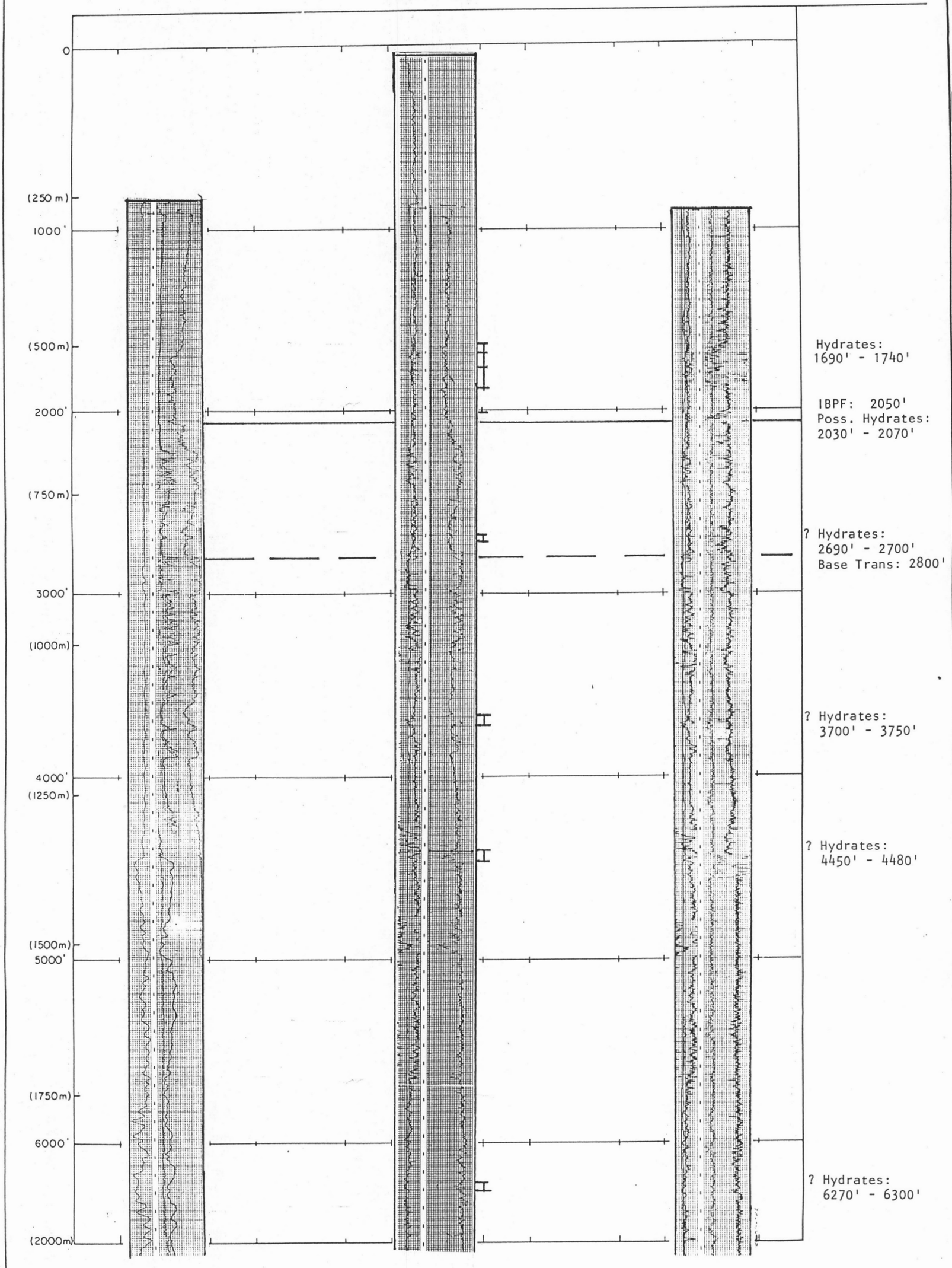
HARDY ASSOCIATES (1978) LTD.
CONSULTING ENGINEERING & PROFESSIONAL SERVICES

PERMAFROST / GAS HYDRATE STUDY
NORTHWEST TERRITORIES – YUKON

BEAVERTAIL G-26

CG10136

FIGURE 139



LOGS (LEFT TO RIGHT)

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

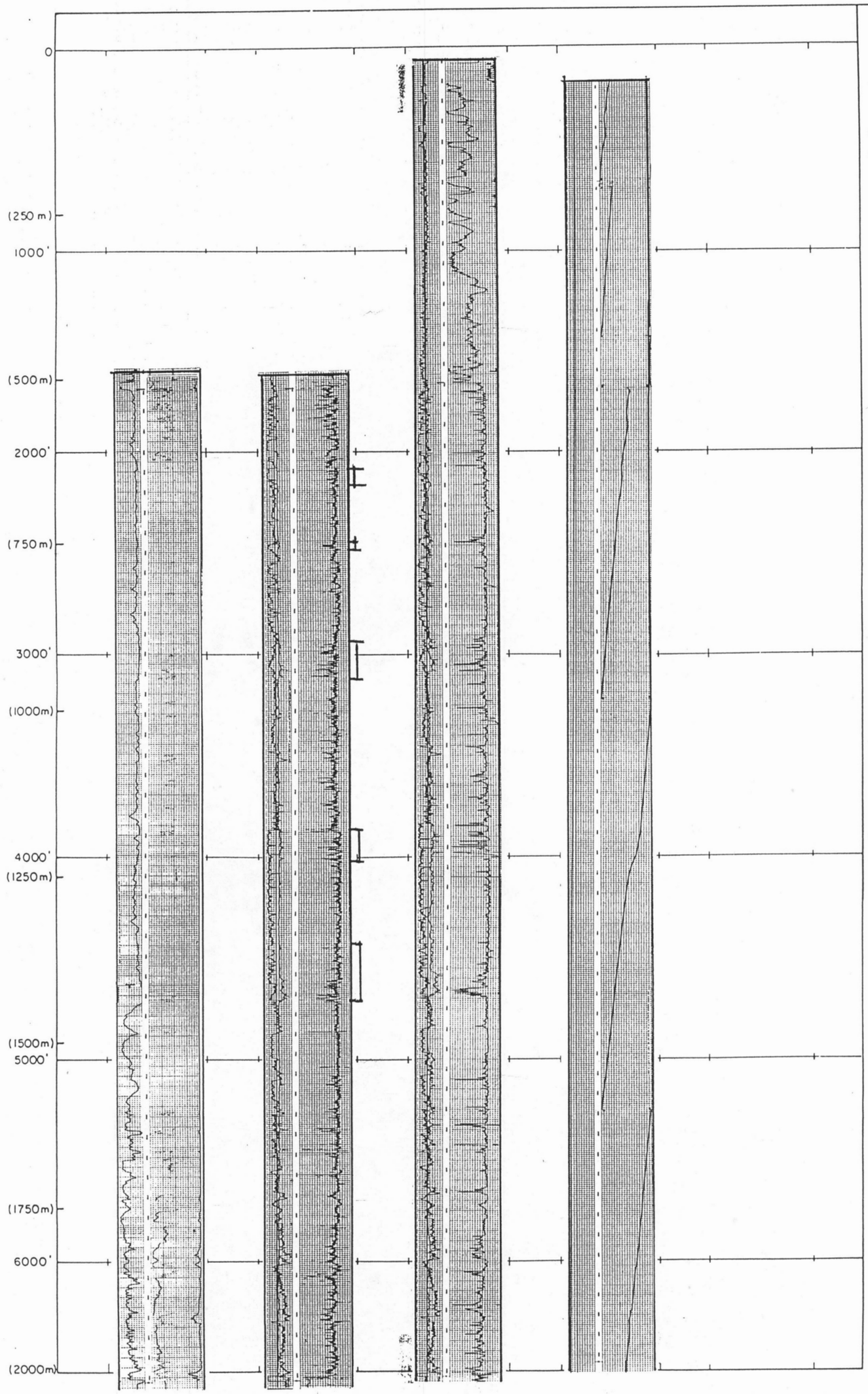
HARDY ASSOCIATES (1978) LTD.
CONSULTING ENGINEERING & PROFESSIONAL SERVICES

PERMAFROST / GAS HYDRATE STUDY
NORTHWEST TERRITORIES – YUKON

TAYLOR LAKE Y.T. K-15

CG10136

FIGURE 140



LOGS (LEFT TO RIGHT)

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

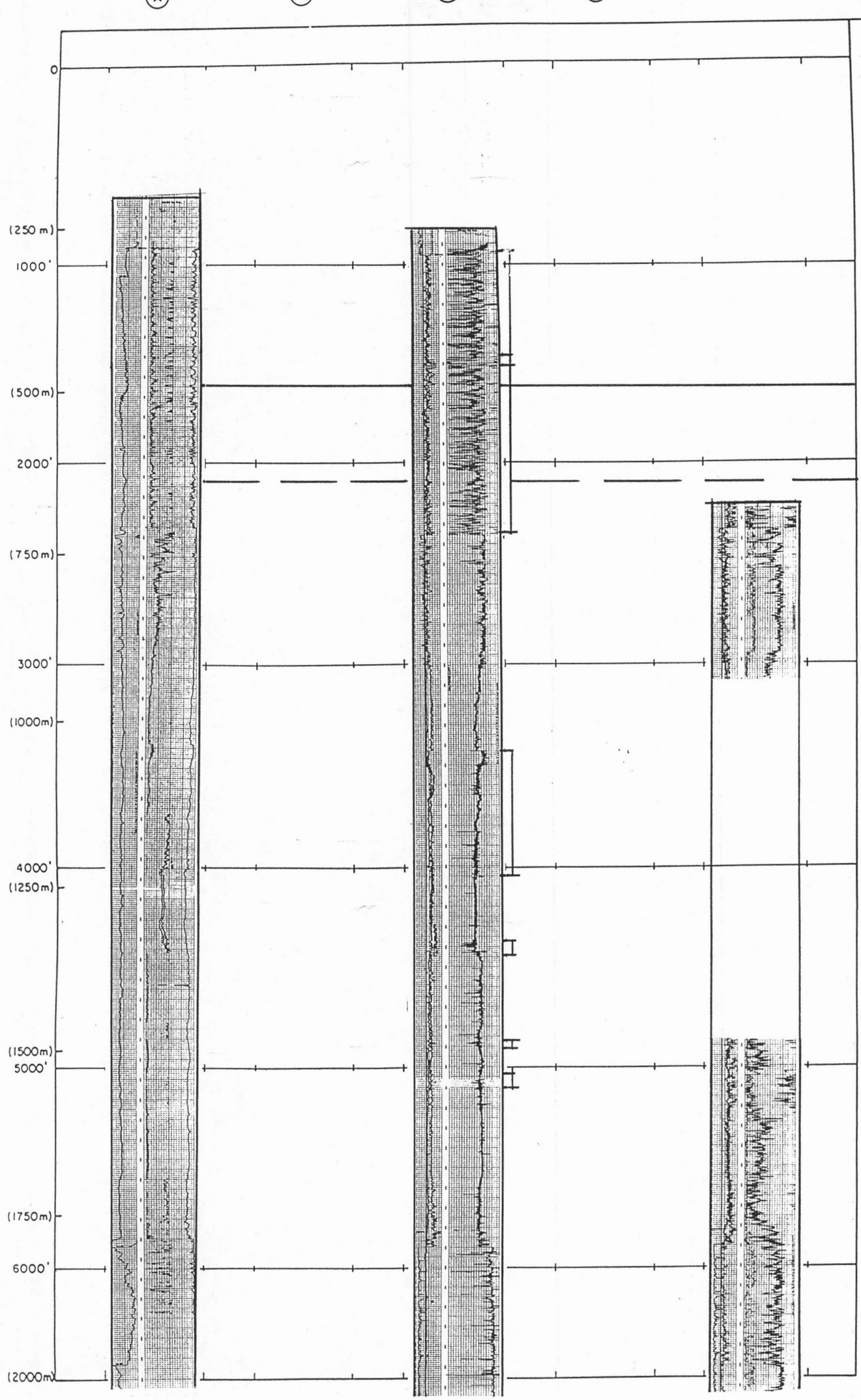
HARDY ASSOCIATES (1978) LTD.
CONSULTING ENGINEERING & PROFESSIONAL SERVICES

PERMAFROST / GAS HYDRATE STUDY
NORTHWEST TERRITORIES – YUKON

BLACK FLY Y.T. M-55

CG10136

FIGURE 141



LOGS (LEFT TO RIGHT)

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

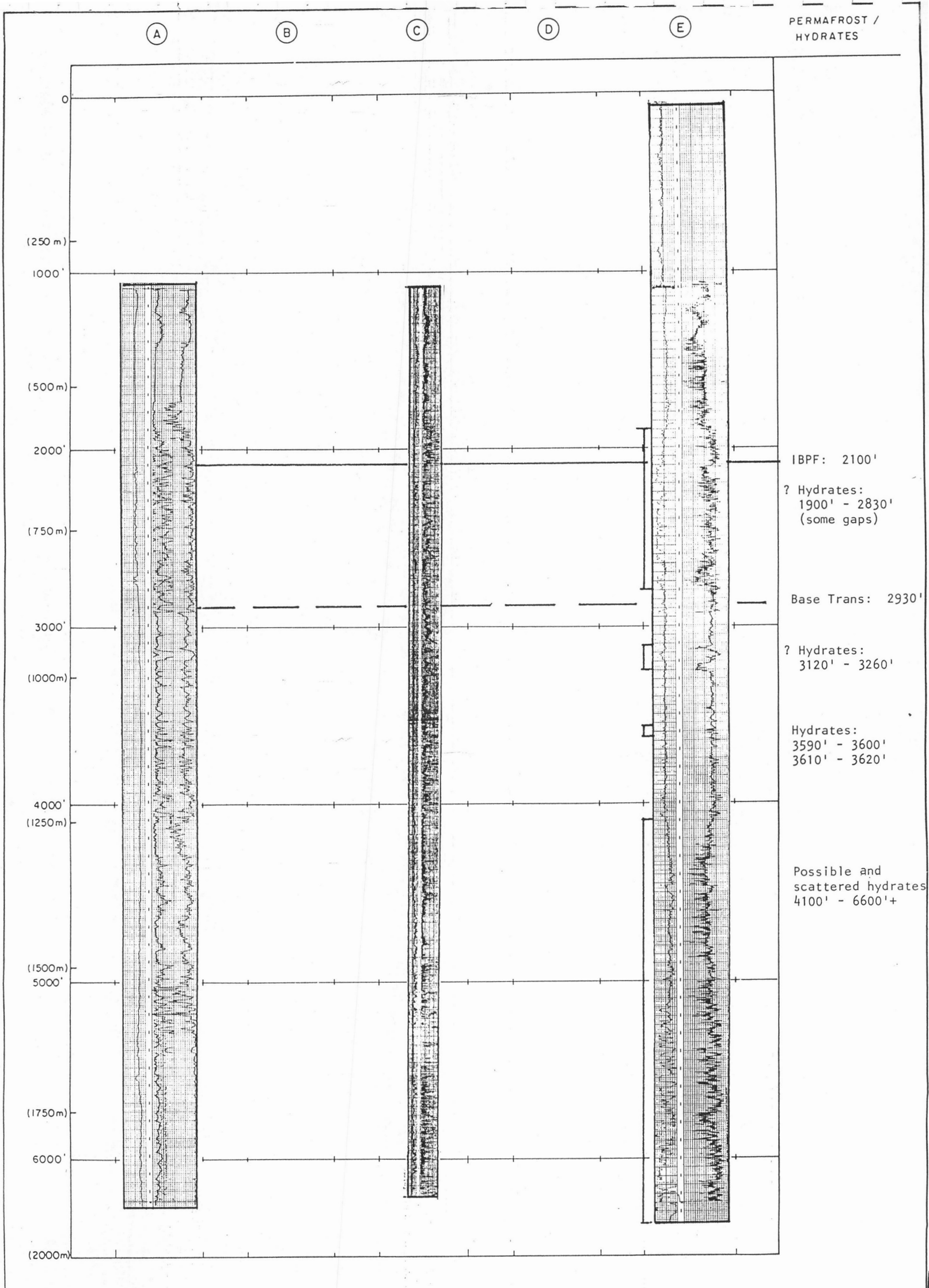
HARDY ASSOCIATES (1978) LTD.
CONSULTING ENGINEERING & PROFESSIONAL SERVICES

PERMAFROST / GAS HYDRATE STUDY
NORTHWEST TERRITORIES – YUKON

WHITESTONE N-58

CG10136

FIGURE 142



LOGS (LEFT TO RIGHT)

(A) IND E

(B)

(C) ML-C

(D)

(E) S-GR

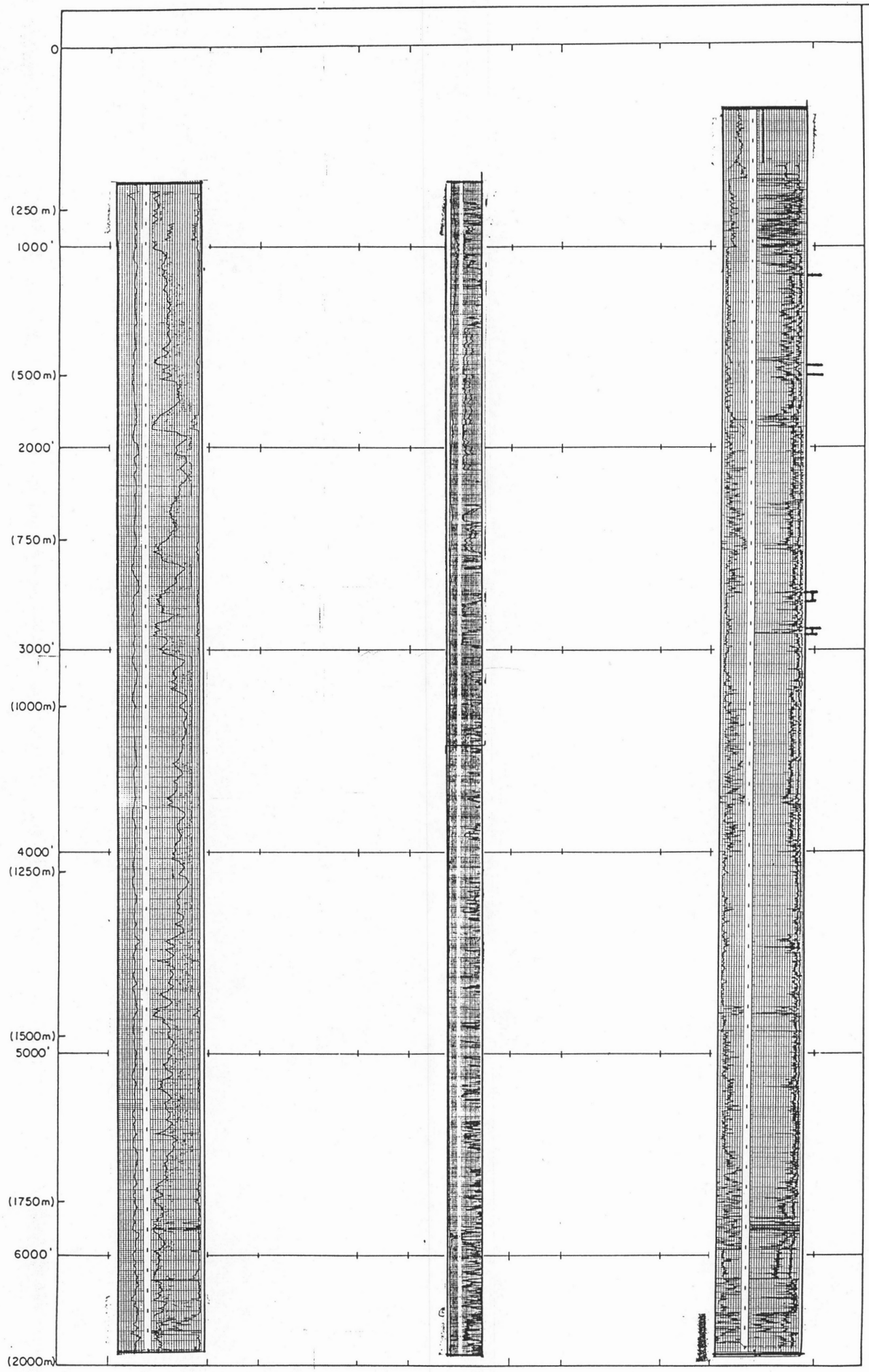
HARDY ASSOCIATES (1978) LTD.
CONSULTING ENGINEERING & PROFESSIONAL SERVICES

PERMAFROST / GAS HYDRATE STUDY
NORTHWEST TERRITORIES – YUKON

BLACKIE No I Y.T. M - 59

CGI0136

FIGURE 143



LOGS (LEFT TO RIGHT)

- (A) IND E
- (B)
- (C) ML-C
- (D)
- (E) S-GR

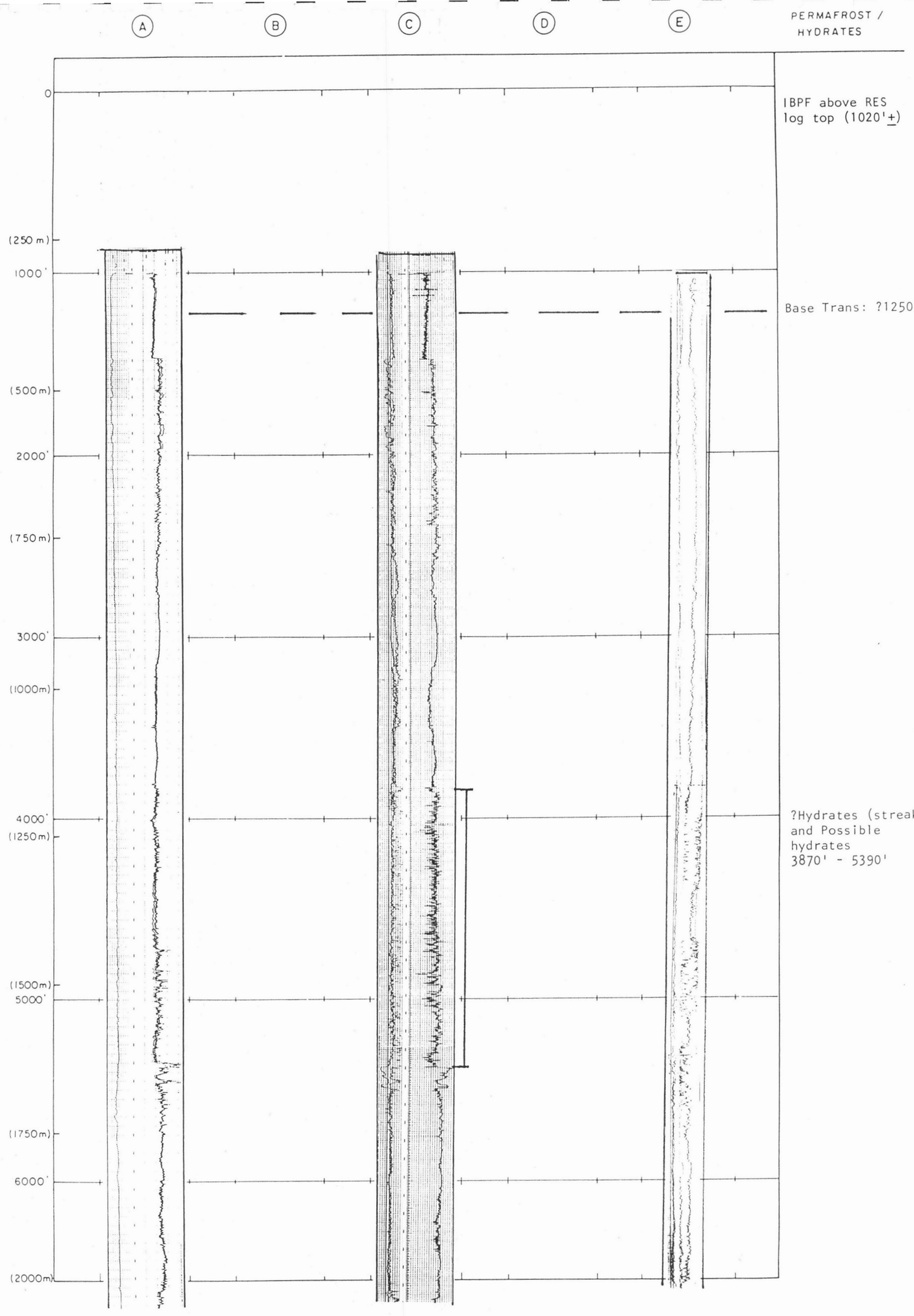
HARDY ASSOCIATES (1978) LTD.
CONSULTING ENGINEERING & PROFESSIONAL SERVICES

PERMAFROST / GAS HYDRATE STUDY
NORTHWEST TERRITORIES – YUKON

BLACKWATER LAKE G-52

CGI0136

FIGURE 144



LOGS (LEFT TO RIGHT)

(A) DILL

(B)

(C) BHCS

(D)

(E) CN-FD

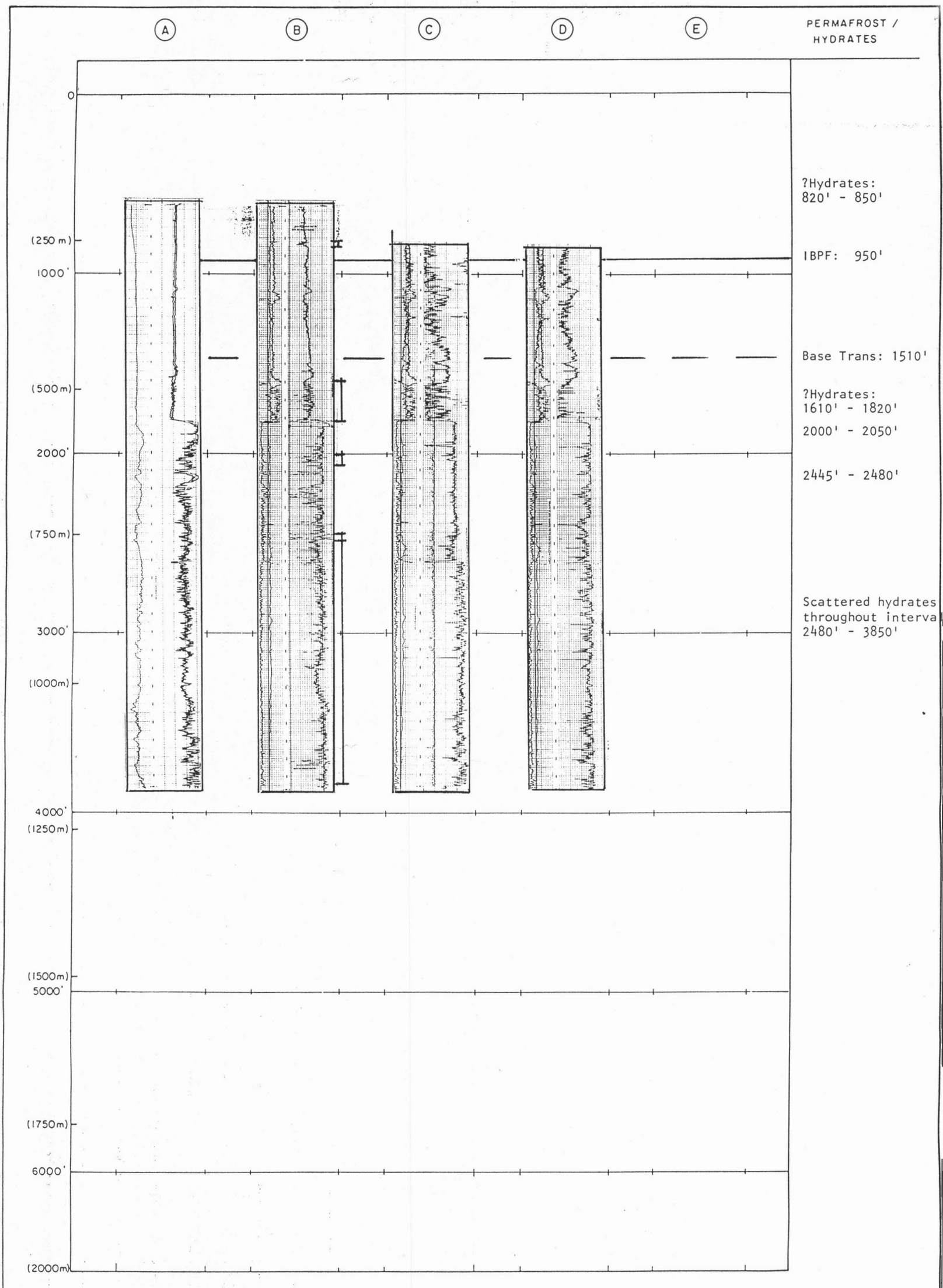
HARDY ASSOCIATES (1978) LTD.
CONSULTING ENGINEERING & PROFESSIONAL SERVICES

PERMAFROST / GAS HYDRATE STUDY
NORTHWEST TERRITORIES – YUKON

KEELE S. A-28

CG10136

FIGURE 145



LOGS (LEFT TO RIGHT)

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

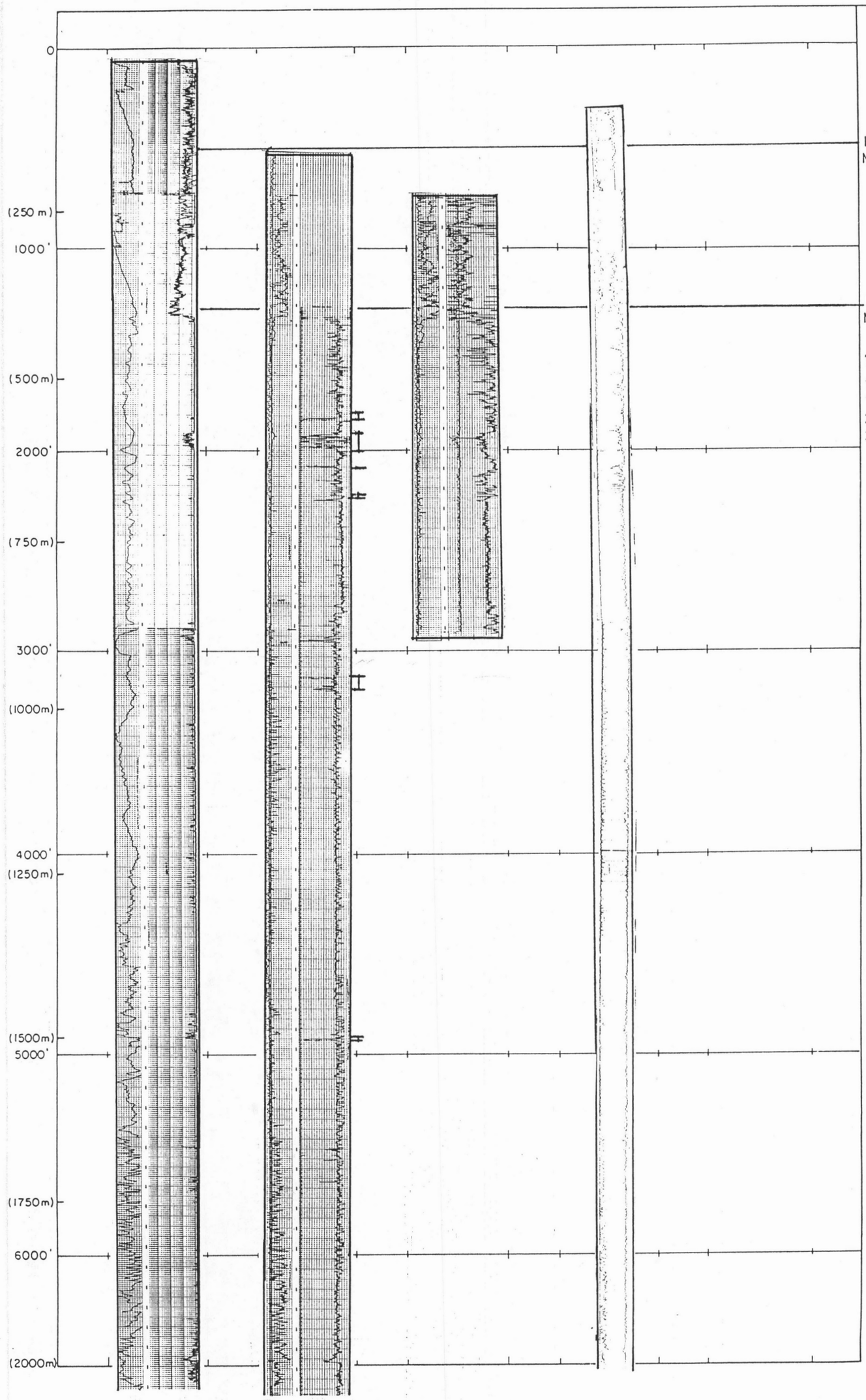
HARDY ASSOCIATES (1978) LTD.
CONSULTING ENGINEERING & PROFESSIONAL SERVICES

PERMAFROST / GAS HYDRATE STUDY
NORTHWEST TERRITORIES – YUKON

REDSTONE P-78

CGI0136

FIGURE 146



LOGS (LEFT TO RIGHT)

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

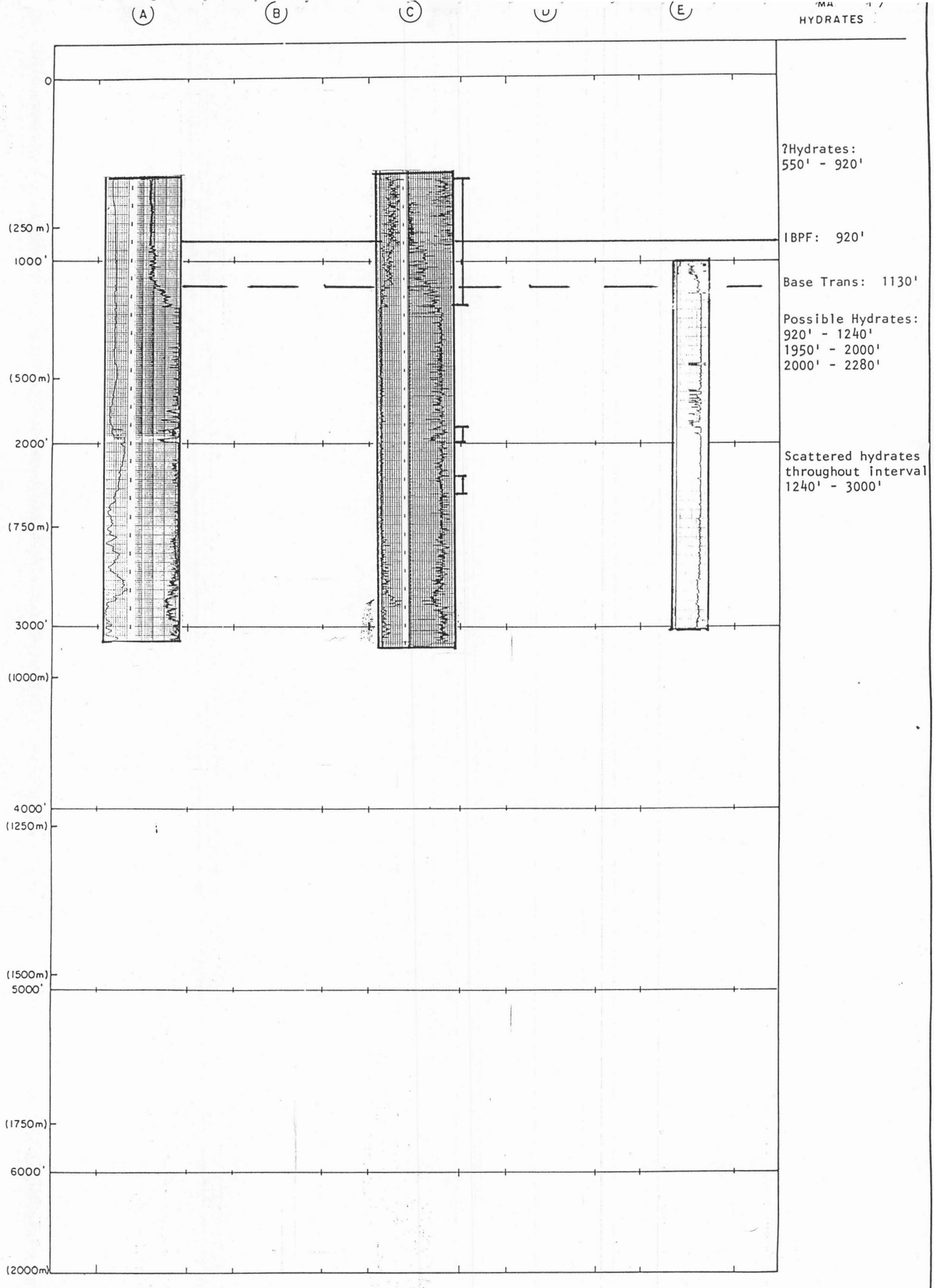
HARDY ASSOCIATES (1978) LTD.
CONSULTING ENGINEERING & PROFESSIONAL SERVICES

PERMAFROST / GAS HYDRATE STUDY
NORTHWEST TERRITORIES - YUKON

RED DOG K-29

CGI0136

FIGURE 147



LOGS (LEFT TO RIGHT)

(A) DILL

(B)

(C) BHCS

(D)

(E) SNP

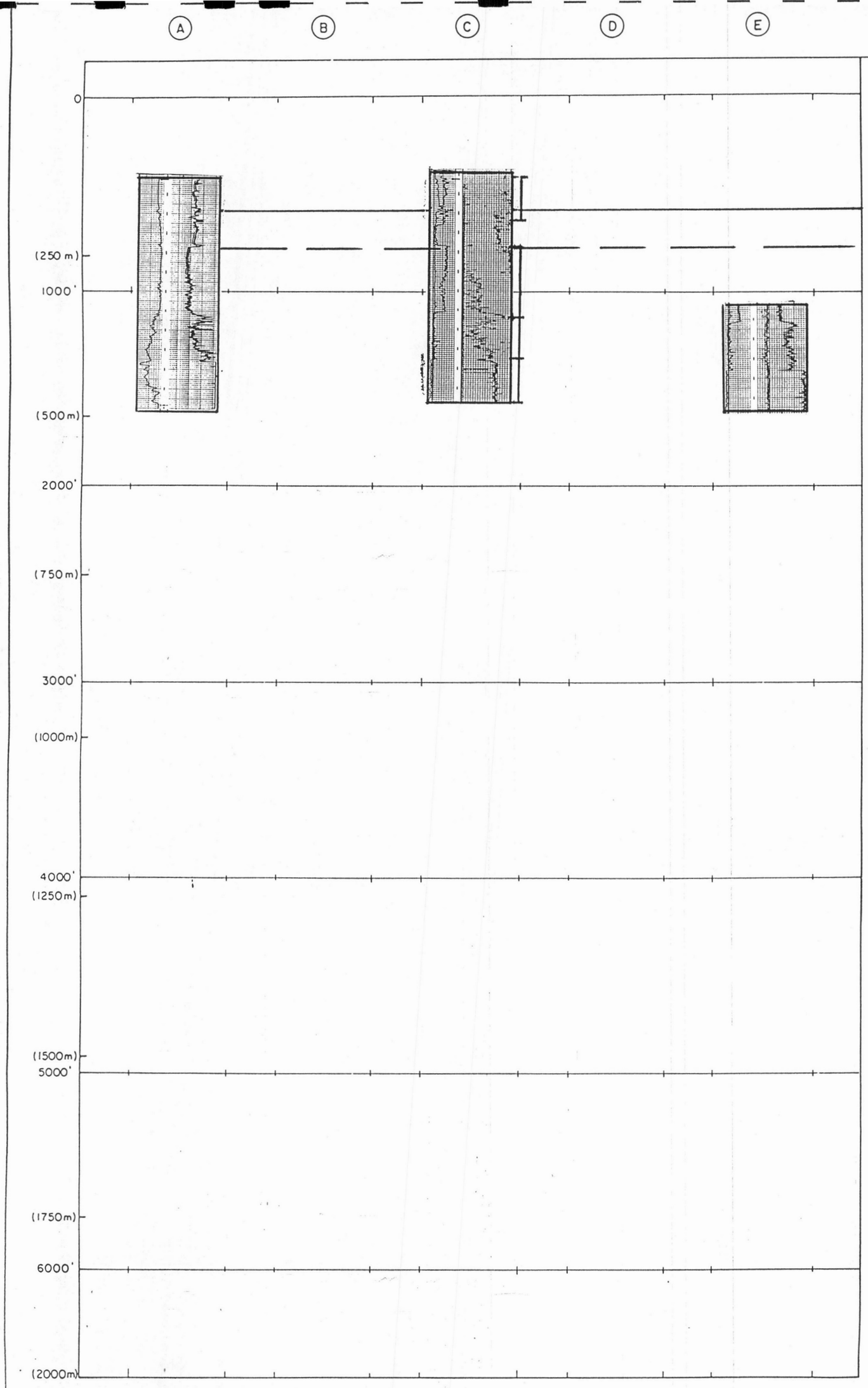
HARDY ASSOCIATES (1978) LTD.
CONSULTING ENGINEERING & PROFESSIONAL SERVICES

PERMAFROST / GAS HYDRATE STUDY
NORTHWEST TERRITORIES – YUKON

KELLER LAKE O-13

CG10136

FIGURE 148



LOGS (LEFT TO RIGHT)

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

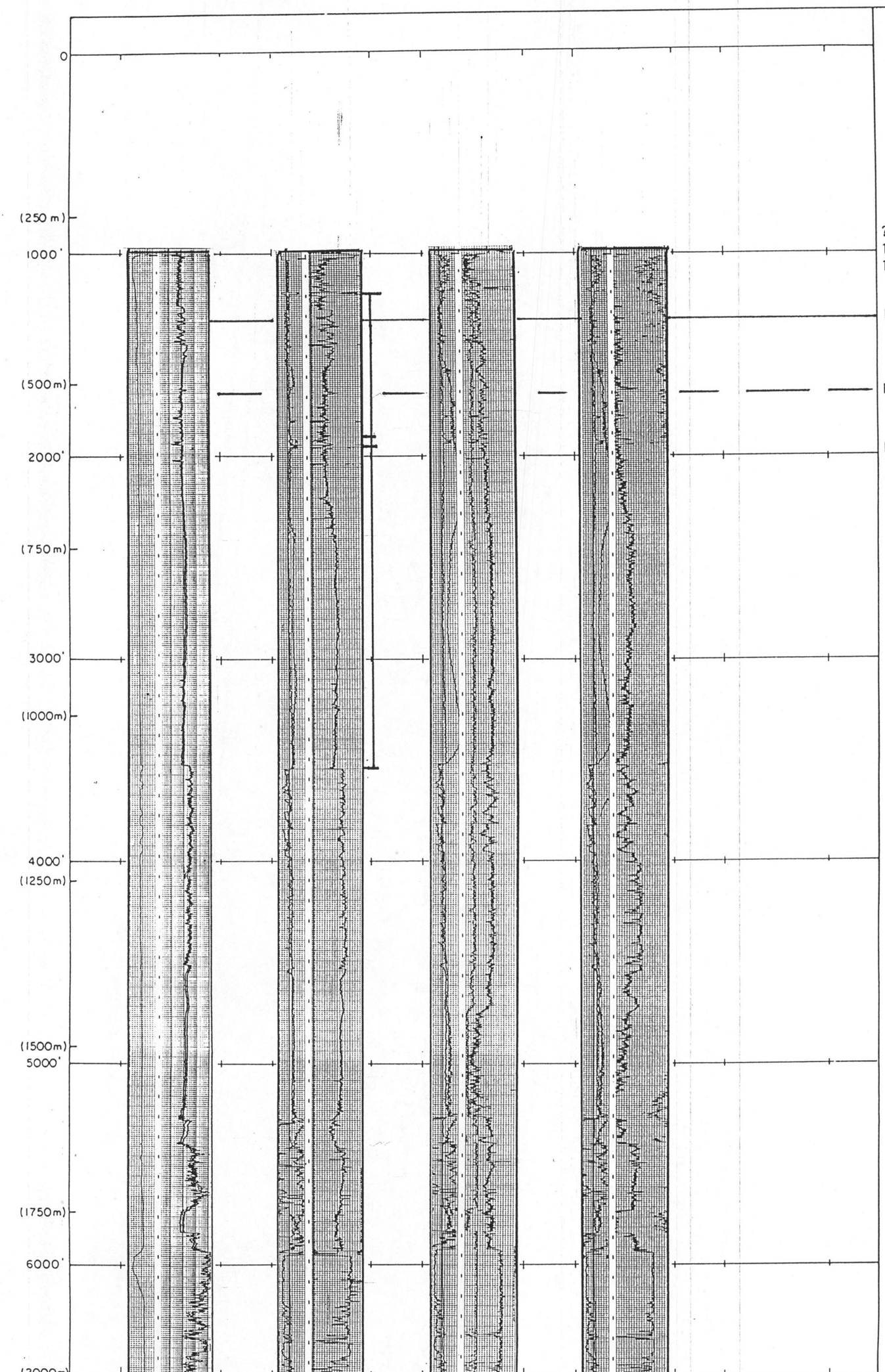
HARDY ASSOCIATES (1978) LTD.
CONSULTING ENGINEERING & PROFESSIONAL SERVICES

PERMAFROST / GAS HYDRATE STUDY
NORTHWEST TERRITORIES – YUKON

KELLER LAKE P-14

CG10136

FIGURE 149



LOGS (LEFT TO RIGHT)

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

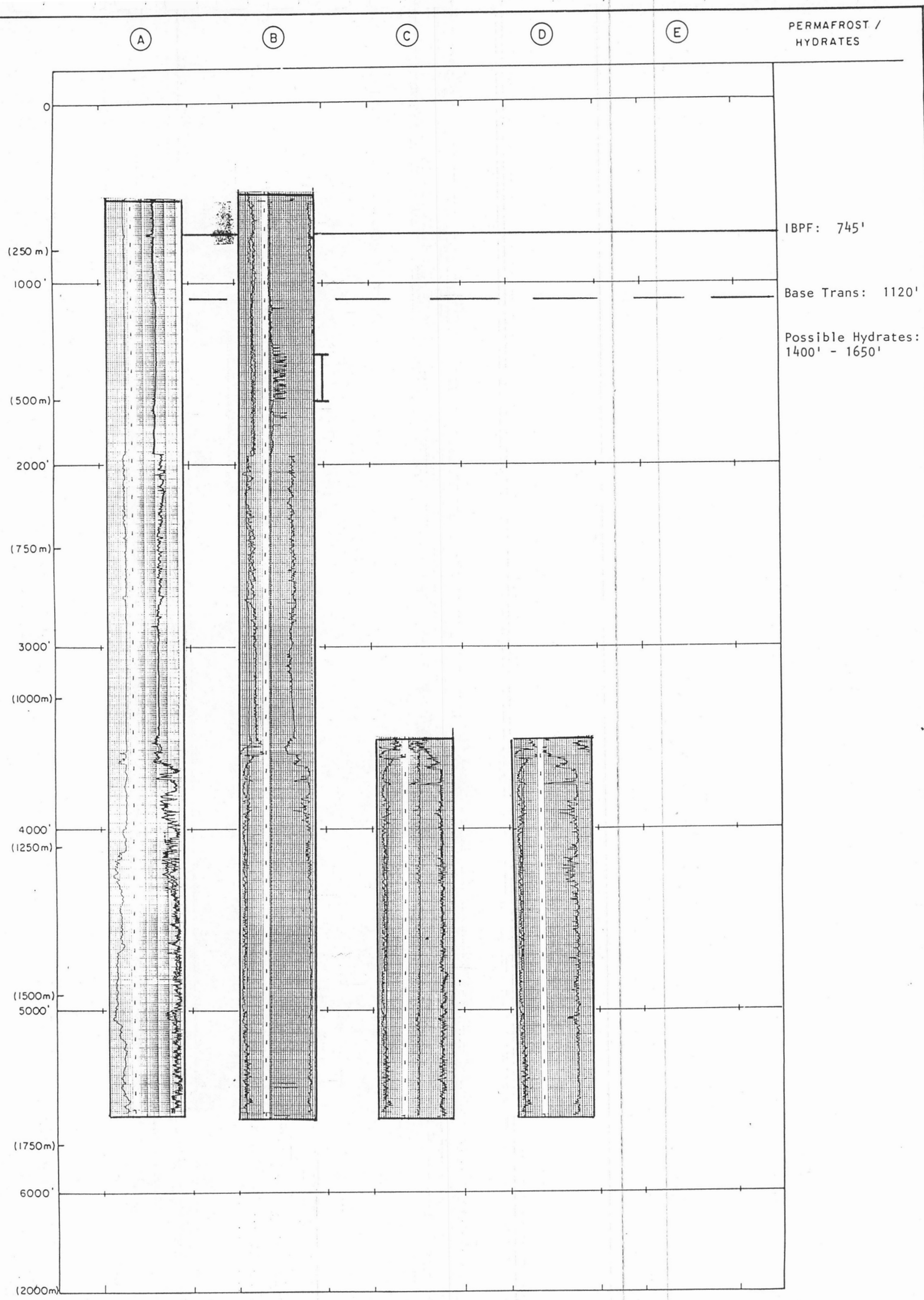
HARDY ASSOCIATES (1978) LTD.
CONSULTING ENGINEERING & PROFESSIONAL SERVICES

PERMAFROST / GAS HYDRATE STUDY
NORTHWEST TERRITORIES – YUKON

STEWART B-30

CGI0136

FIGURE 150



LOGS (LEFT TO RIGHT)

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

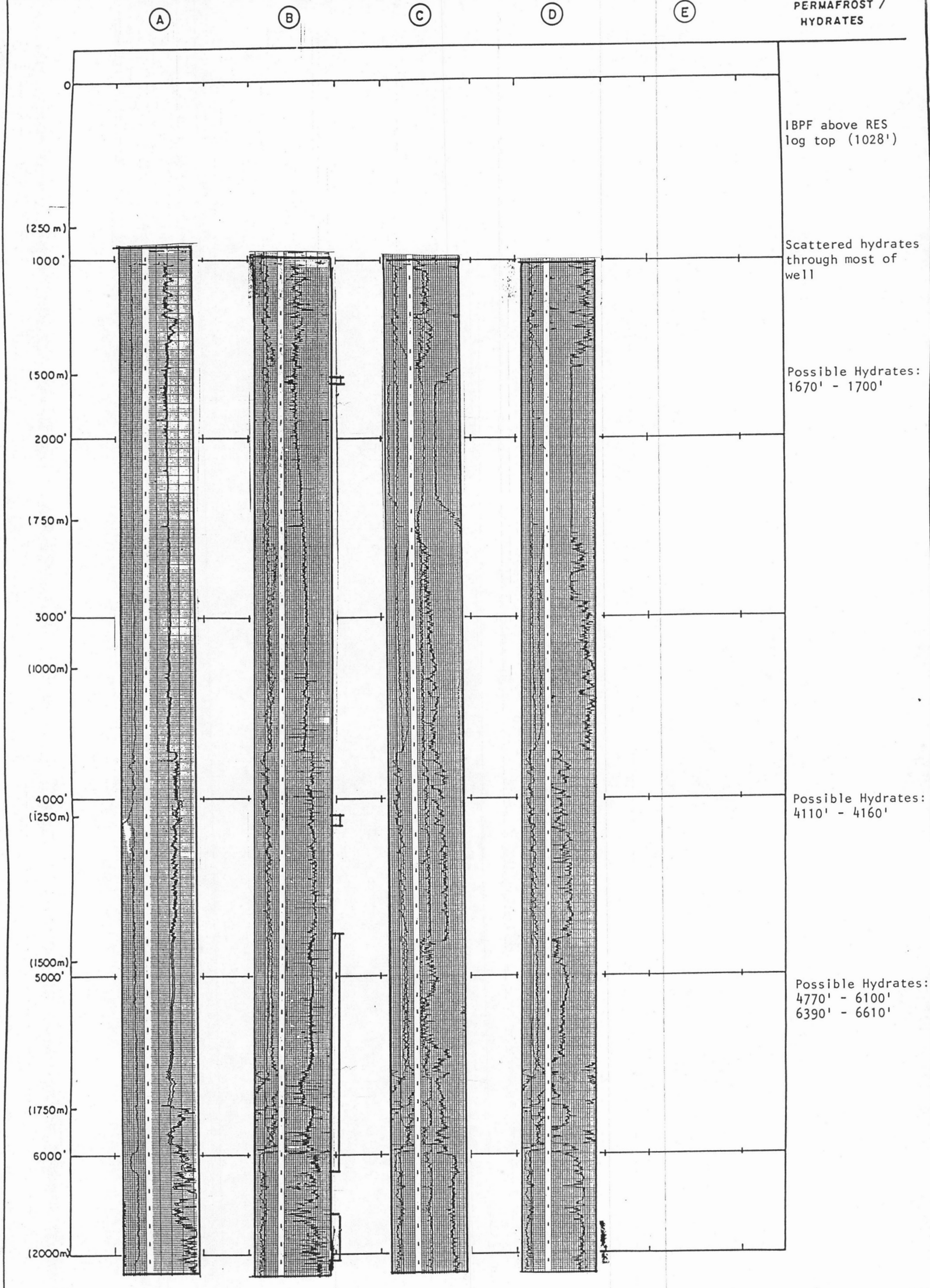
HARDY ASSOCIATES (1978) LTD.
CONSULTING ENGINEERING & PROFESSIONAL SERVICES

PERMAFROST / GAS HYDRATE STUDY
NORTHWEST TERRITORIES – YUKON

KEELE R. I-01

CG10136

FIGURE 151



LOGS (LEFT TO RIGHT)

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

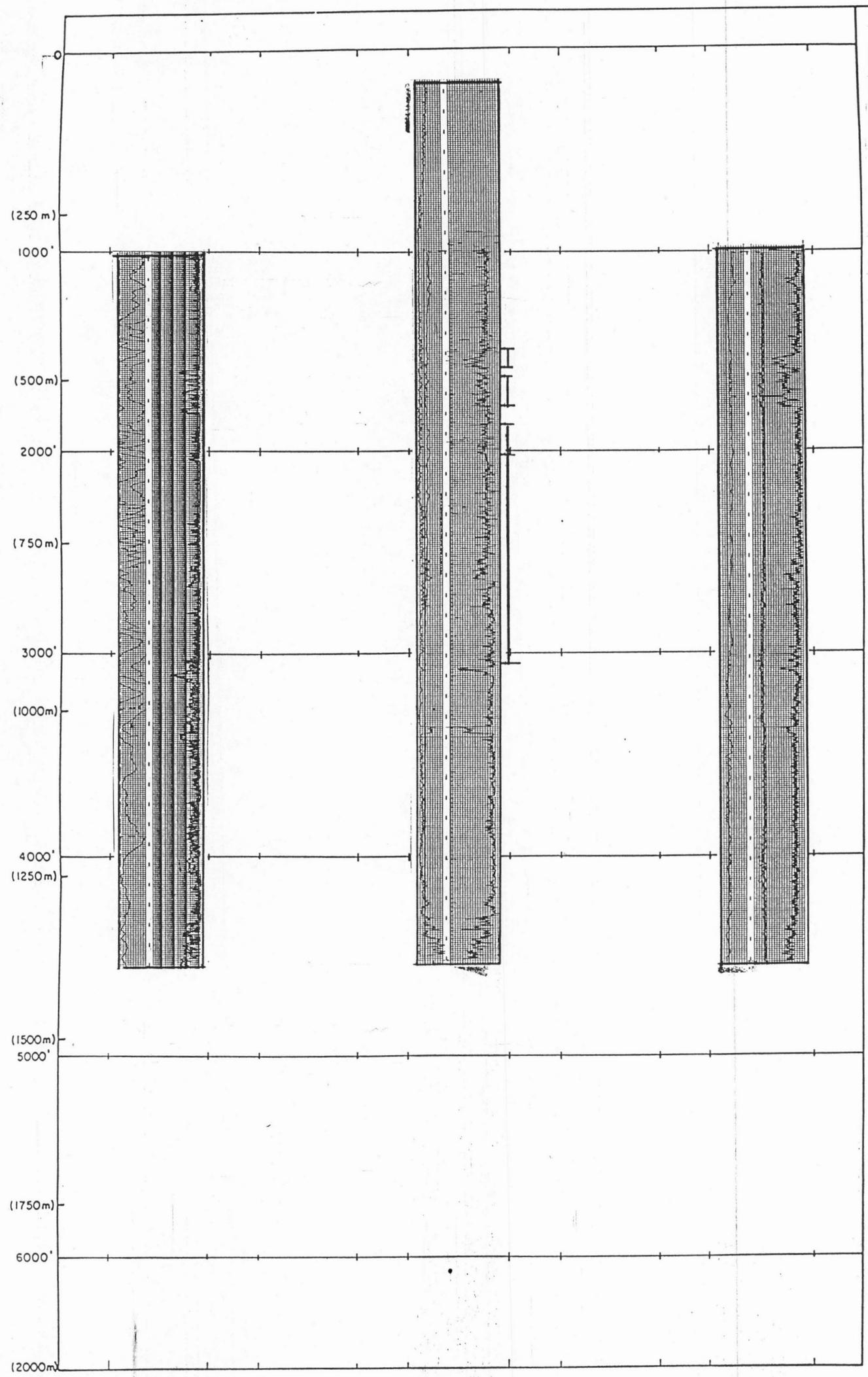
HARDY ASSOCIATES (1978) LTD.
CONSULTING ENGINEERING & PROFESSIONAL SERVICES

PERMAFROST / GAS HYDRATE STUDY
NORTHWEST TERRITORIES – YUKON

TATE J - 65

CGI0136

FIGURE 153



LOGS (LEFT TO RIGHT)

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

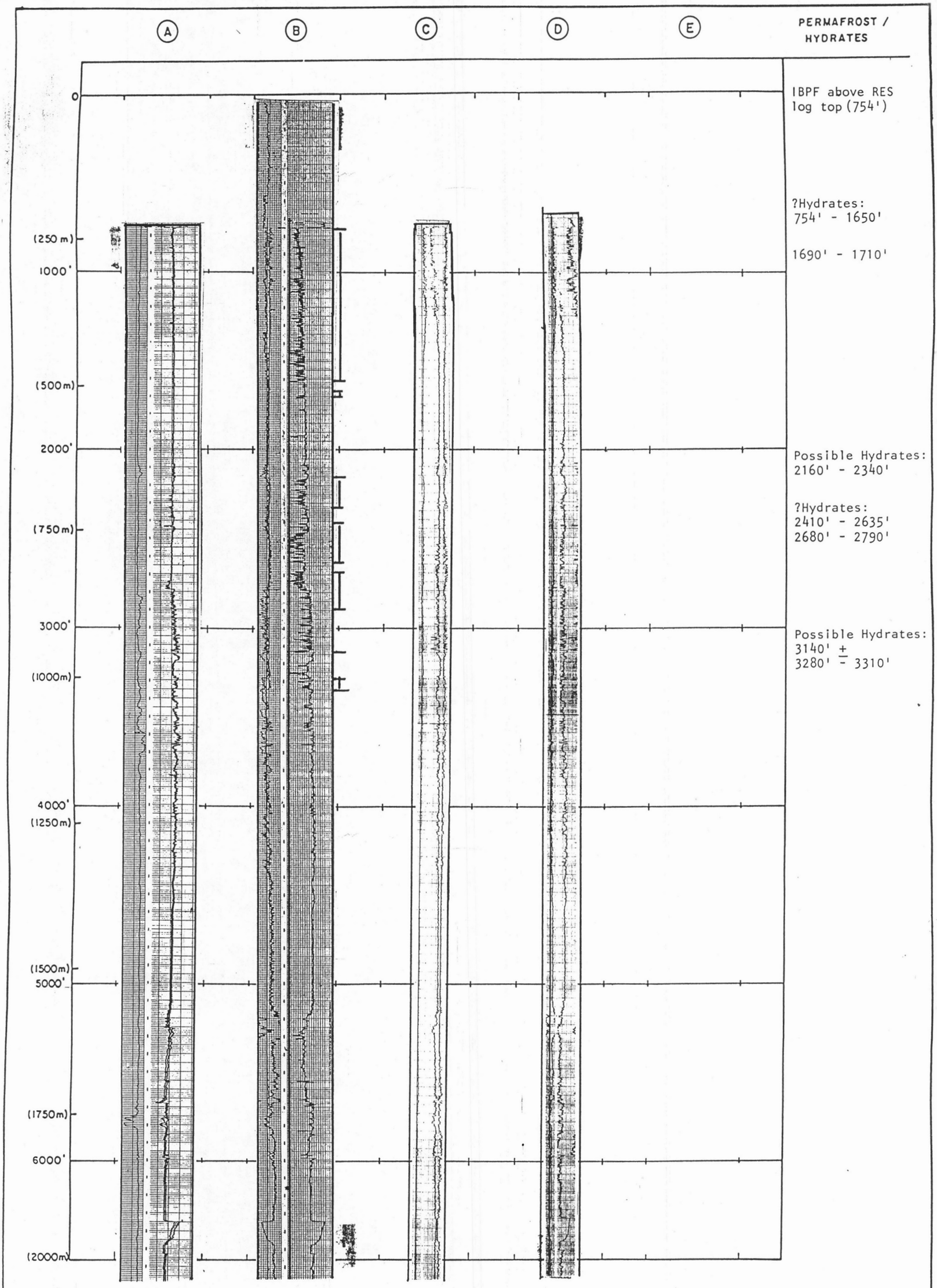
HARDY ASSOCIATES (1978) LTD.
CONSULTING ENGINEERING & PROFESSIONAL SERVICES

PERMAFROST / GAS HYDRATE STUDY
NORTHWEST TERRITORIES – YUKON

BLACKWATER LAKE I-54 A

CGI0136

FIGURE 154



LOGS (LEFT TO RIGHT)

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

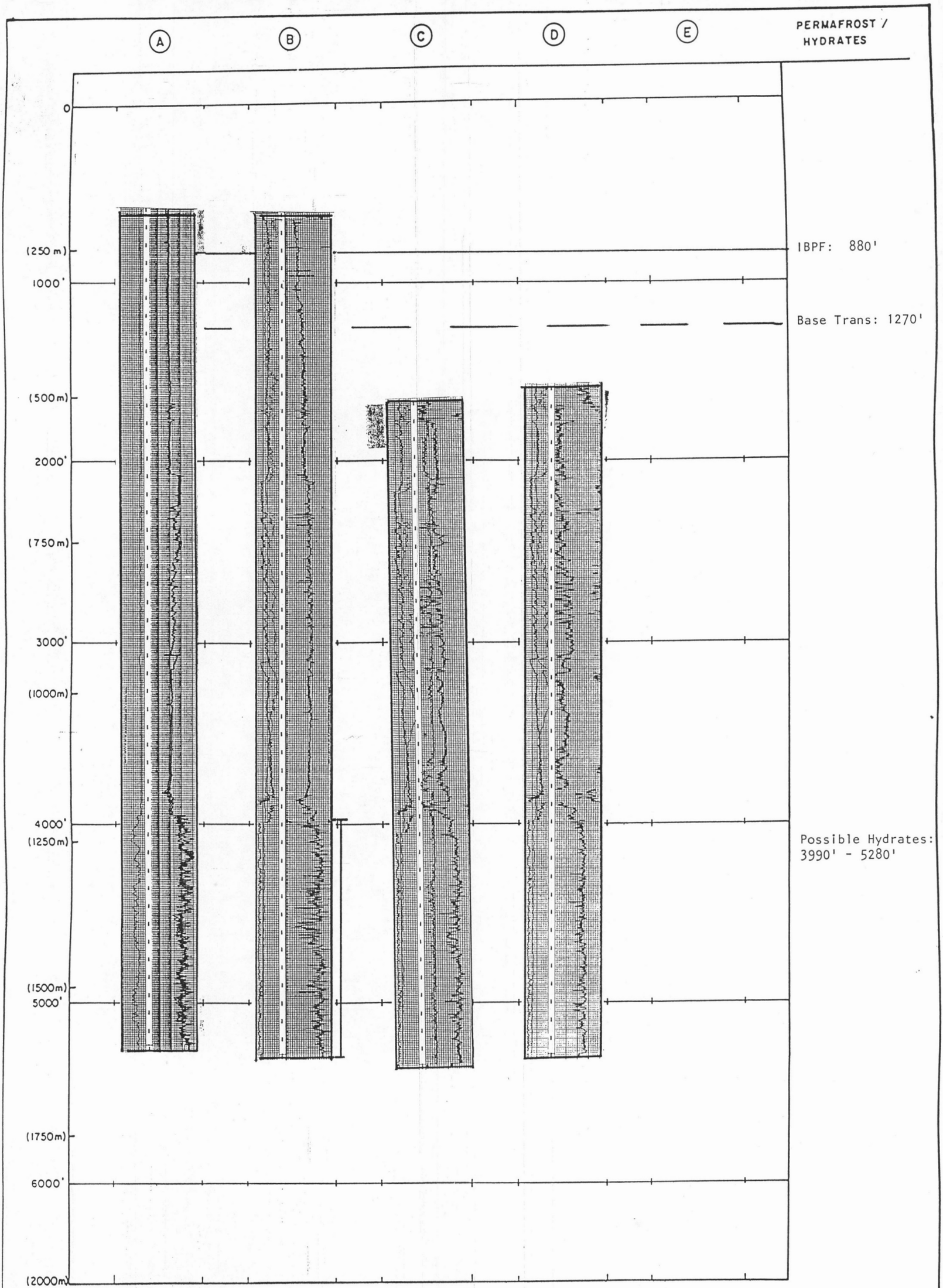
HARDY ASSOCIATES (1978) LTD.
CONSULTING ENGINEERING & PROFESSIONAL SERVICES

PERMAFROST / GAS HYDRATE STUDY
NORTHWEST TERRITORIES - YUKON

LITTLE BEAR I-70

CG10136

FIGURE 155



LOGS (LEFT TO RIGHT)

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

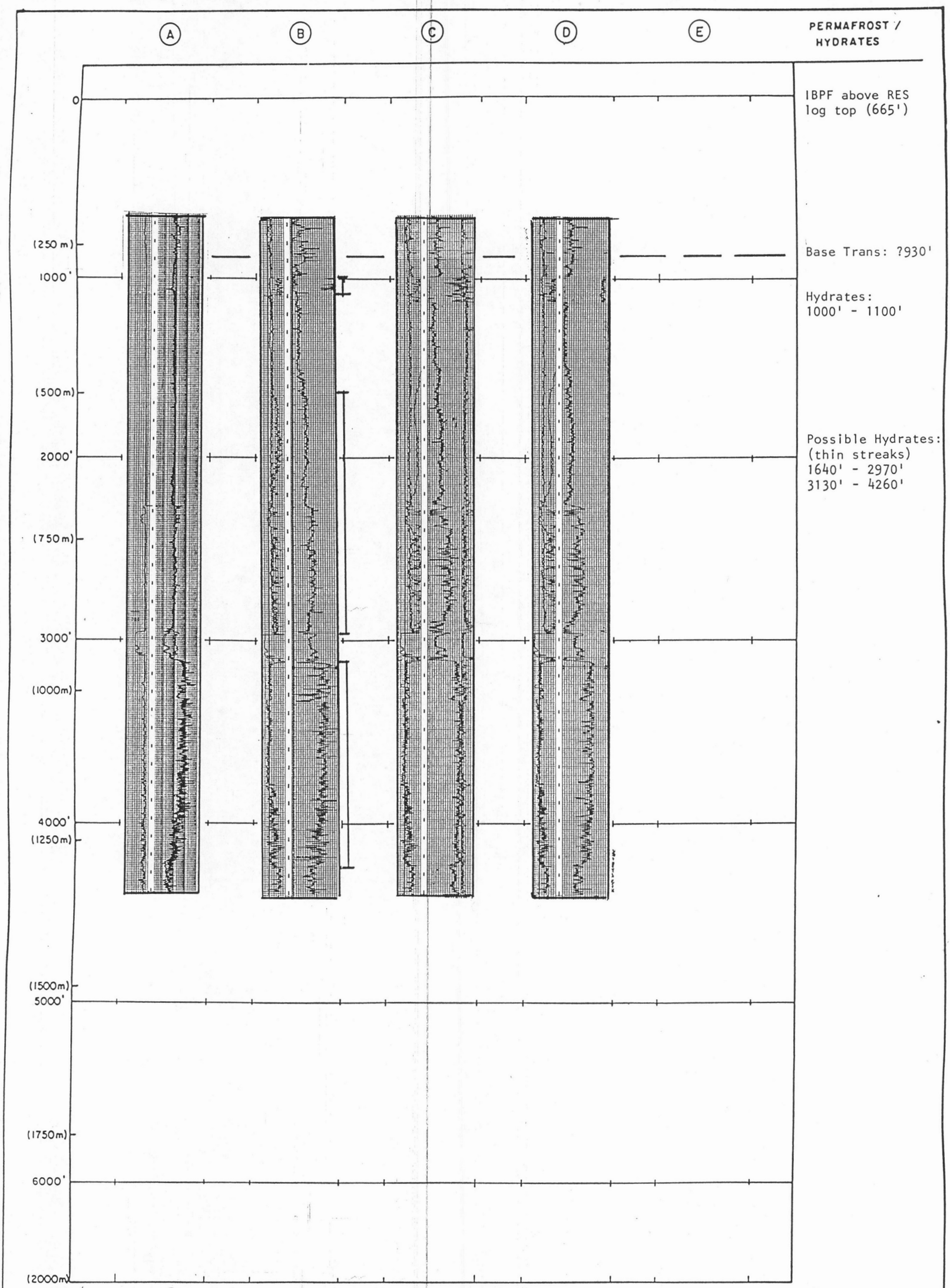
HARDY ASSOCIATES (1978) LTD.
CONSULTING ENGINEERING & PROFESSIONAL SERVICES

PERMAFROST / GAS HYDRATE STUDY
NORTHWEST TERRITORIES – YUKON

EAST MACKAY B-45

CGI0136

FIGURE 156



LOGS (LEFT TO RIGHT)

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

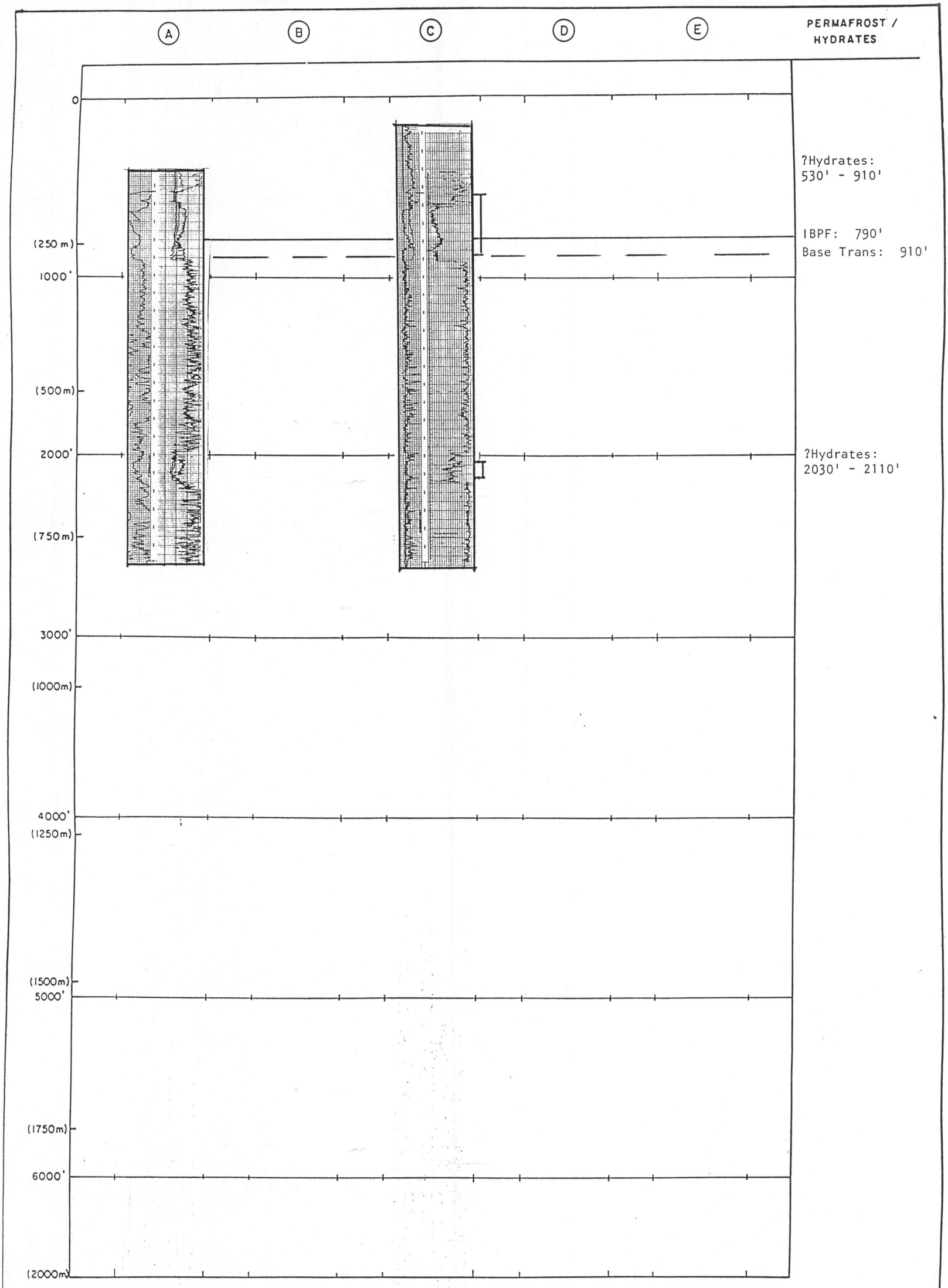
HARDY ASSOCIATES (1978) LTD.
CONSULTING ENGINEERING & PROFESSIONAL SERVICES

PERMAFROST / GAS HYDRATE STUDY NORTHWEST TERRITORIES – YUKON

POLICE ISLAND L-66

CG10136

FIGURE 157



LOGS (LEFT TO RIGHT)

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

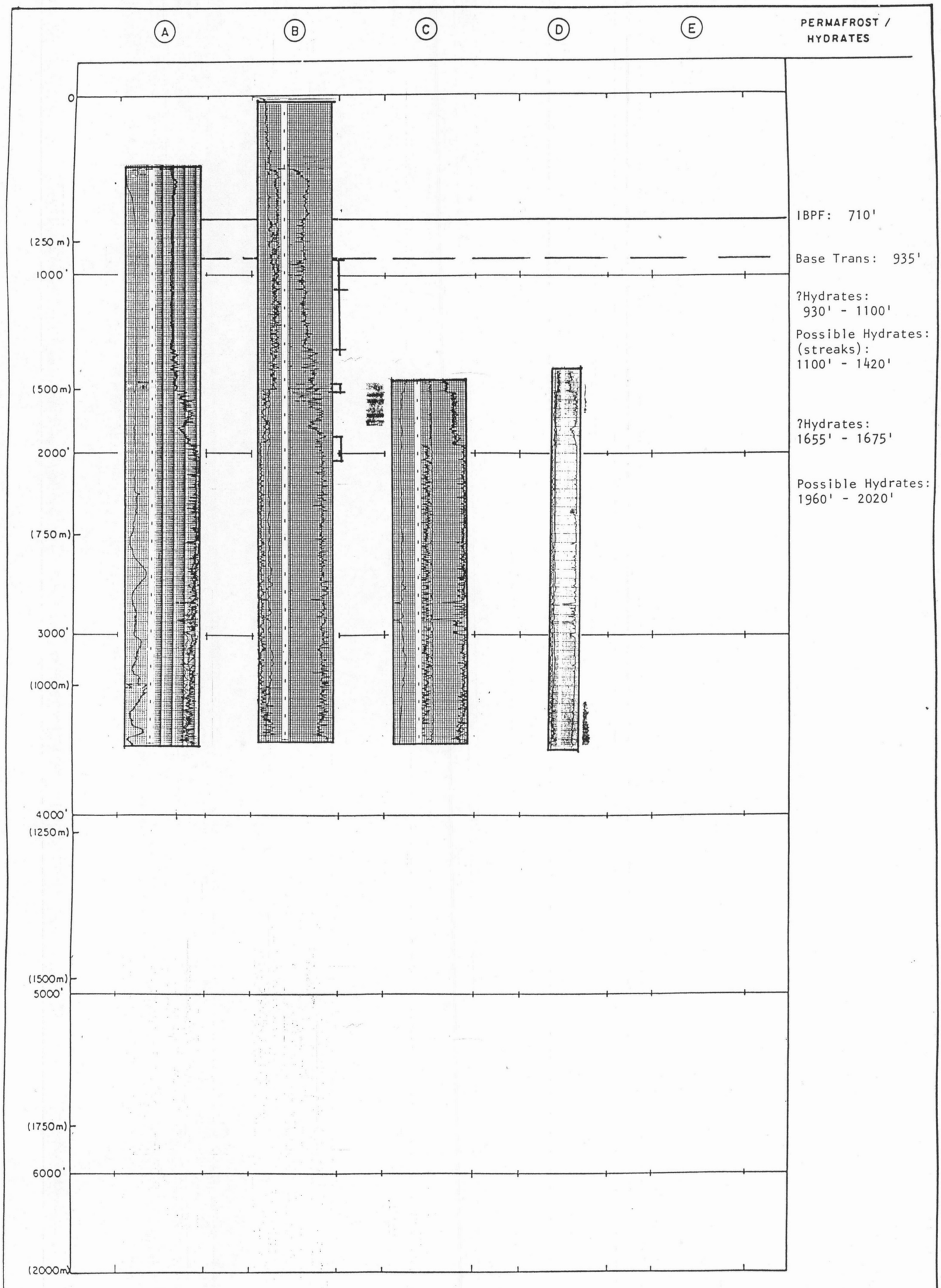
HARDY ASSOCIATES (1978) LTD.
CONSULTING ENGINEERING & PROFESSIONAL SERVICES

PERMAFROST / GAS HYDRATE STUDY
NORTHWEST TERRITORIES – YUKON

OLD FORT POINT E - 30

CG10136

FIGURE 158



LOGS (LEFT TO RIGHT)

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

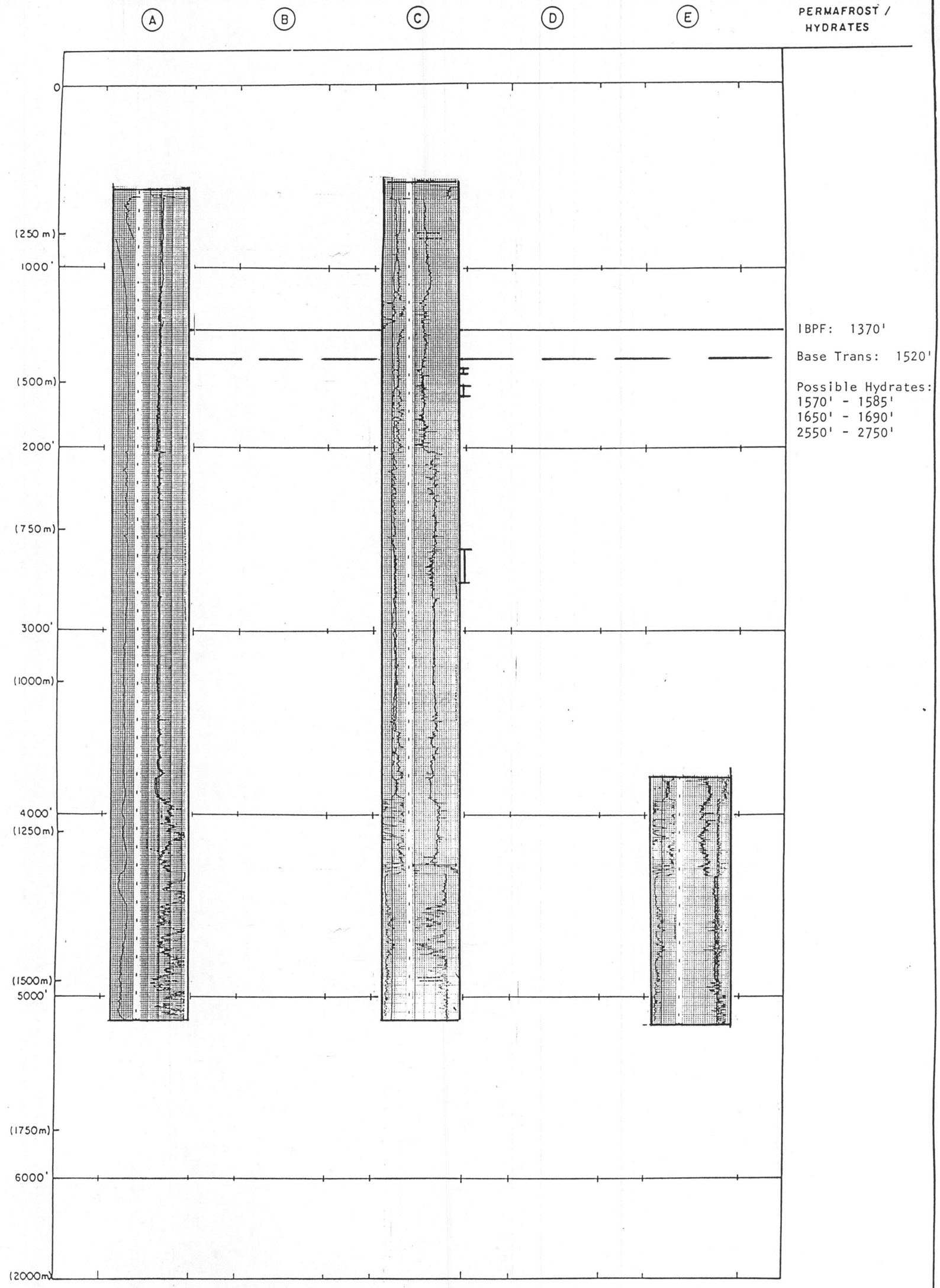
HARDY ASSOCIATES (1978) LTD.
CONSULTING ENGINEERING & PROFESSIONAL SERVICES

PERMAFROST / GAS HYDRATE STUDY
NORTHWEST TERRITORIES – YUKON

ST. CHARLES CREEK H-61

CG10136

FIGURE 159



LOGS (LEFT TO RIGHT)

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

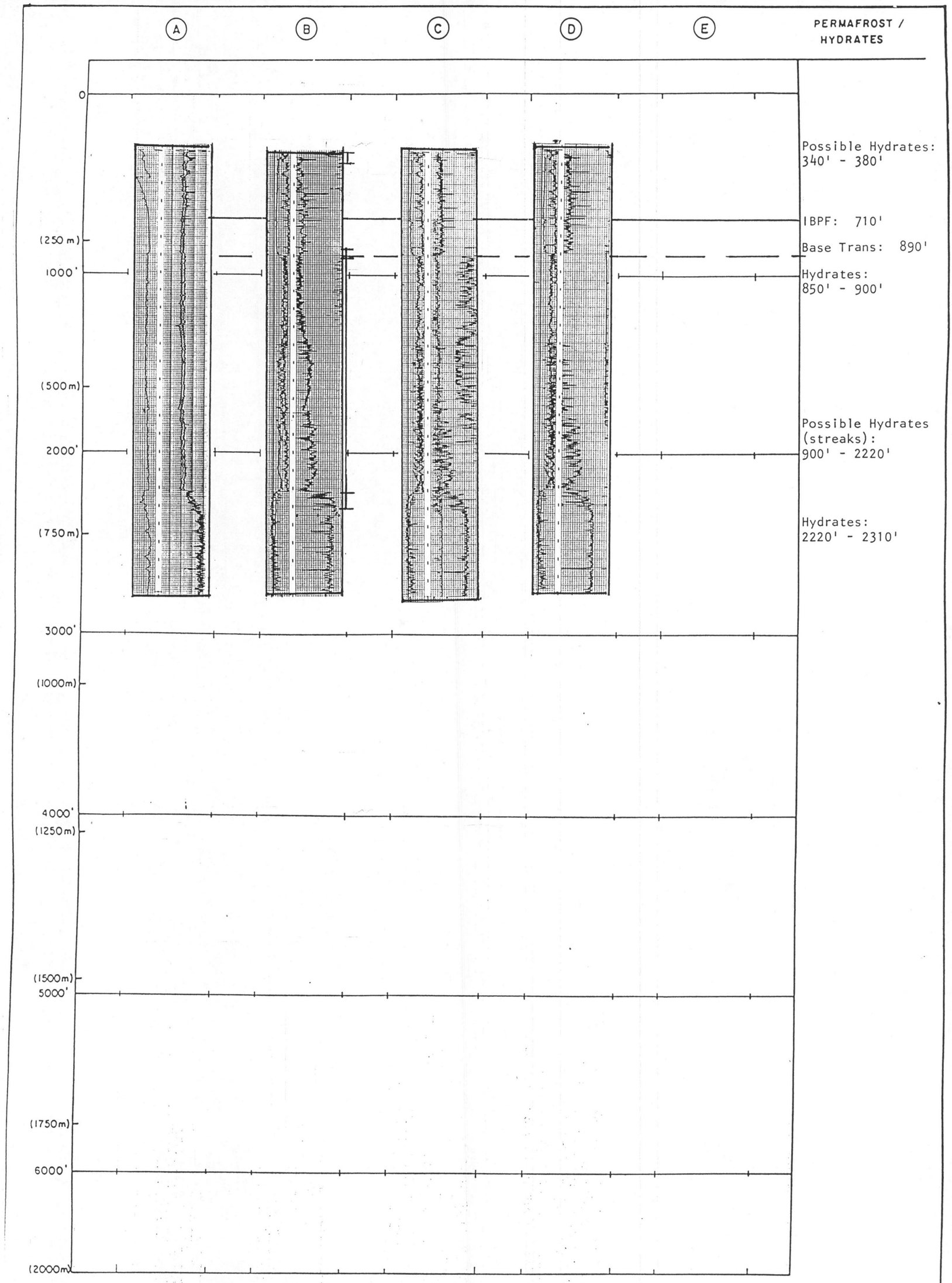
HARDY ASSOCIATES (1978) LTD.
CONSULTING ENGINEERING & PROFESSIONAL SERVICES

PERMAFROST / GAS HYDRATE STUDY
NORTHWEST TERRITORIES – YUKON

BLUEFISH K-71

CGI0136

FIGURE 160



LOGS (LEFT TO RIGHT)

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

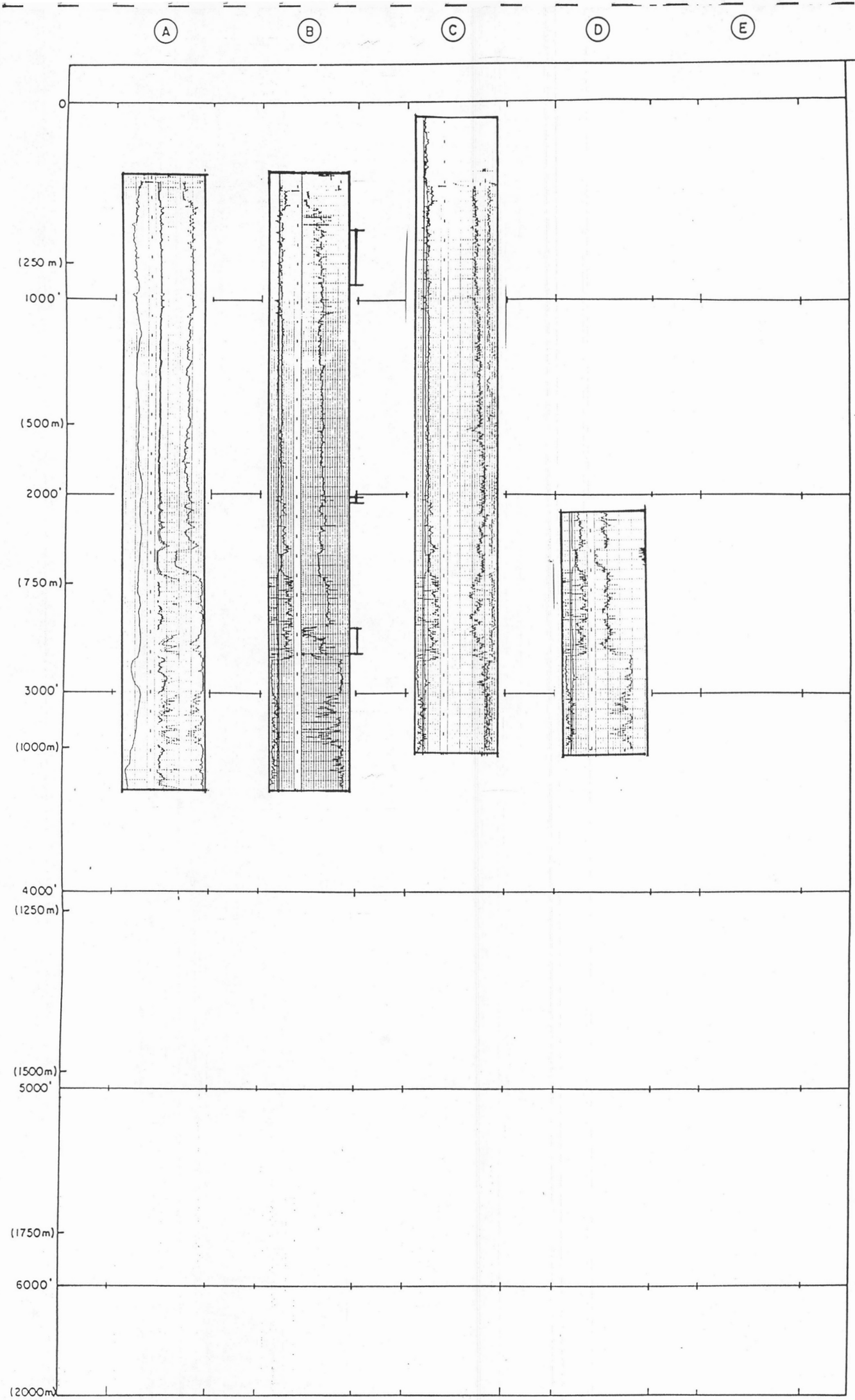
HARDY ASSOCIATES (1978) LTD.
CONSULTING ENGINEERING & PROFESSIONAL SERVICES

PERMAFROST / GAS HYDRATE STUDY
NORTHWEST TERRITORIES – YUKON

FORT NORMAN K-14

CG10136

FIGURE 161



LOGS (LEFT TO RIGHT)

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

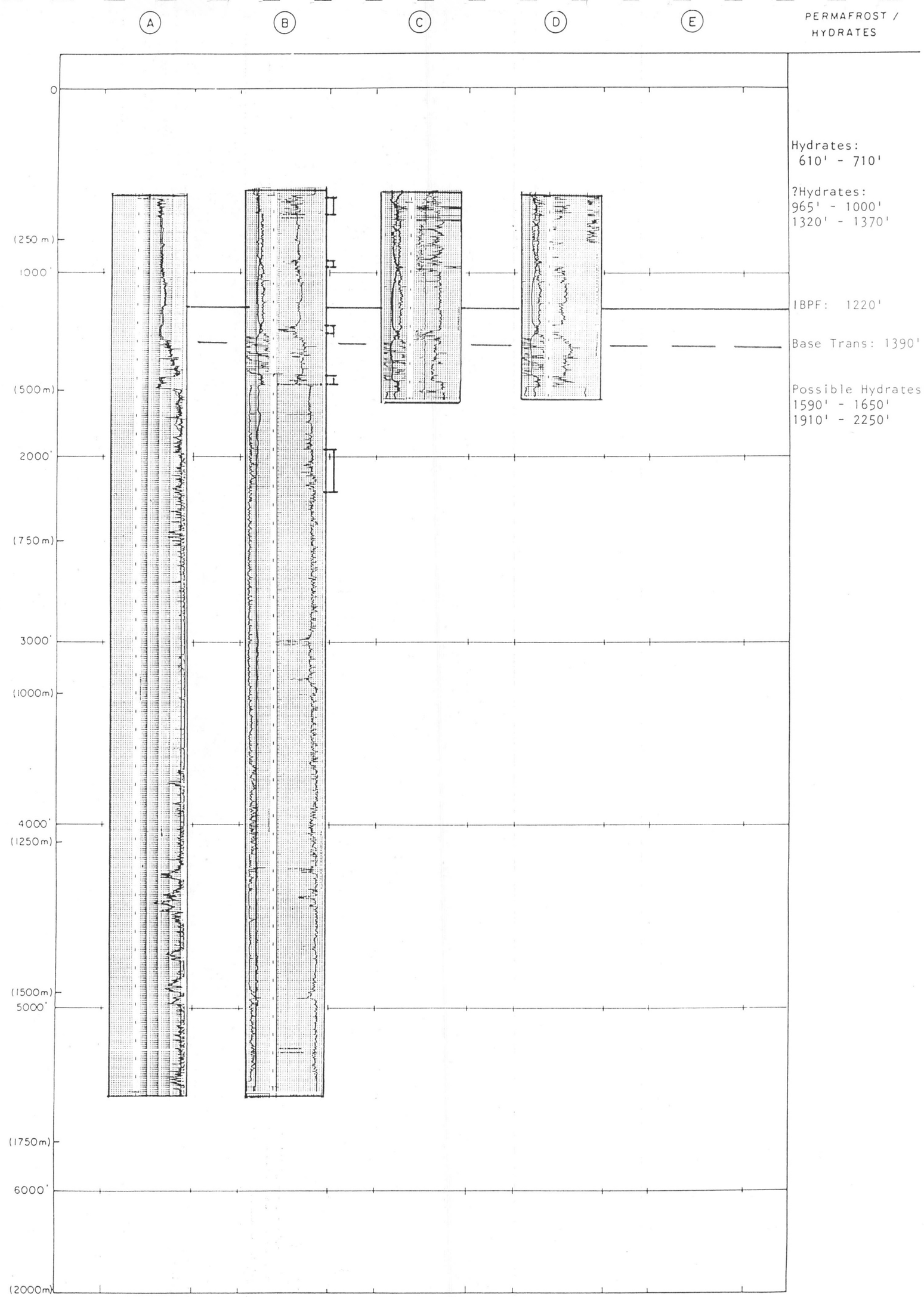
HARDY ASSOCIATES (1978) LTD.
CONSULTING ENGINEERING & PROFESSIONAL SERVICES

PERMAFROST / GAS HYDRATE STUDY
NORTHWEST TERRITORIES – YUKON

SLATER RIVER A- 37

CG10136

FIGURE 162



LOGS (LEFT TO RIGHT)

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

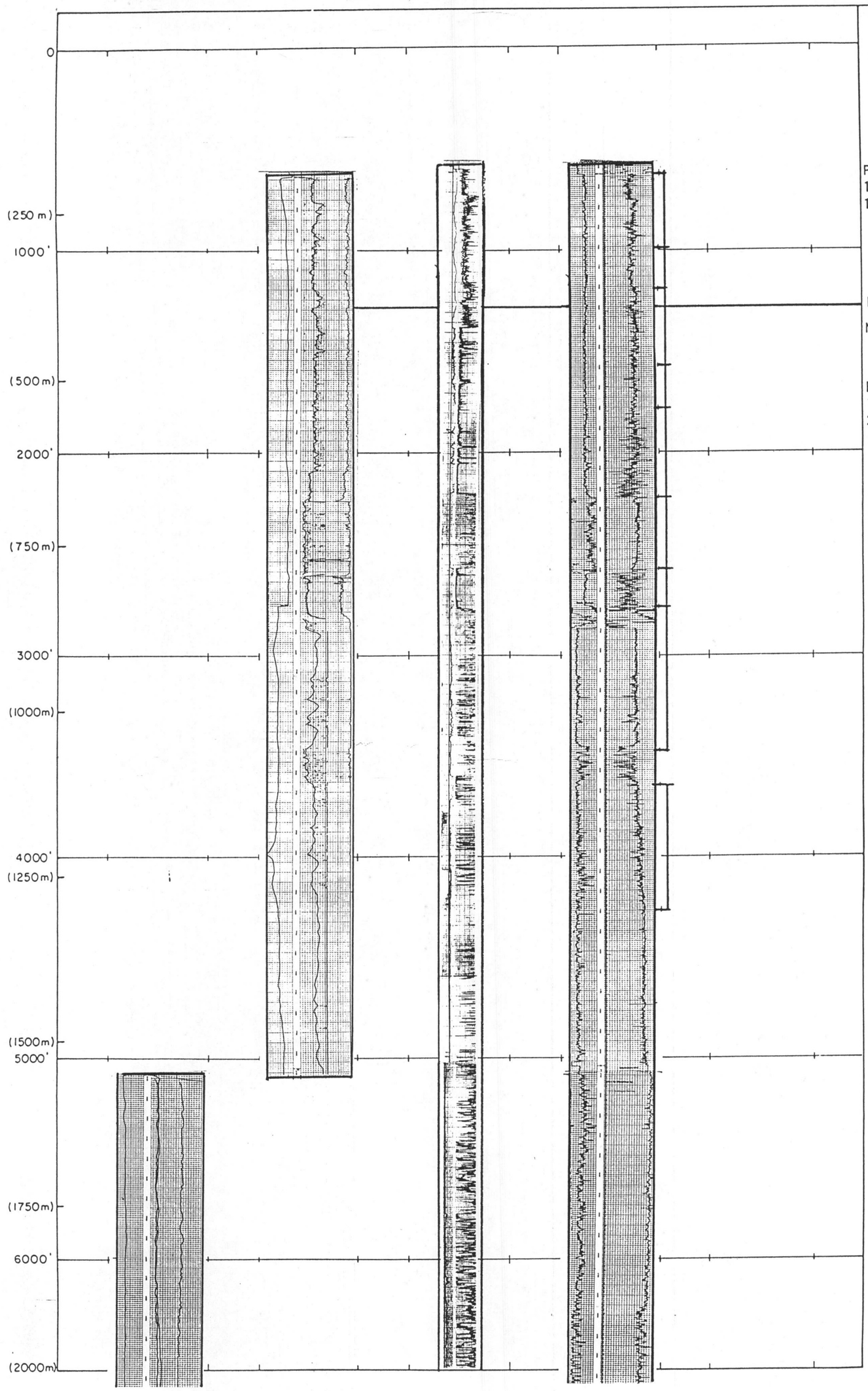
HARDY ASSOCIATES (1978) LTD.
CONSULTING ENGINEERING & PROFESSIONAL SERVICES

PERMAFROST / GAS HYDRATE STUDY
NORTHWEST TERRITORIES - YUKON

FISH LAKE G-60

CG10136

FIGURE 163



LOGS (LEFT TO RIGHT)

- (A) E LOG
- (B) IND, E
- (C) M LC
- (D) S-GR
- (E)

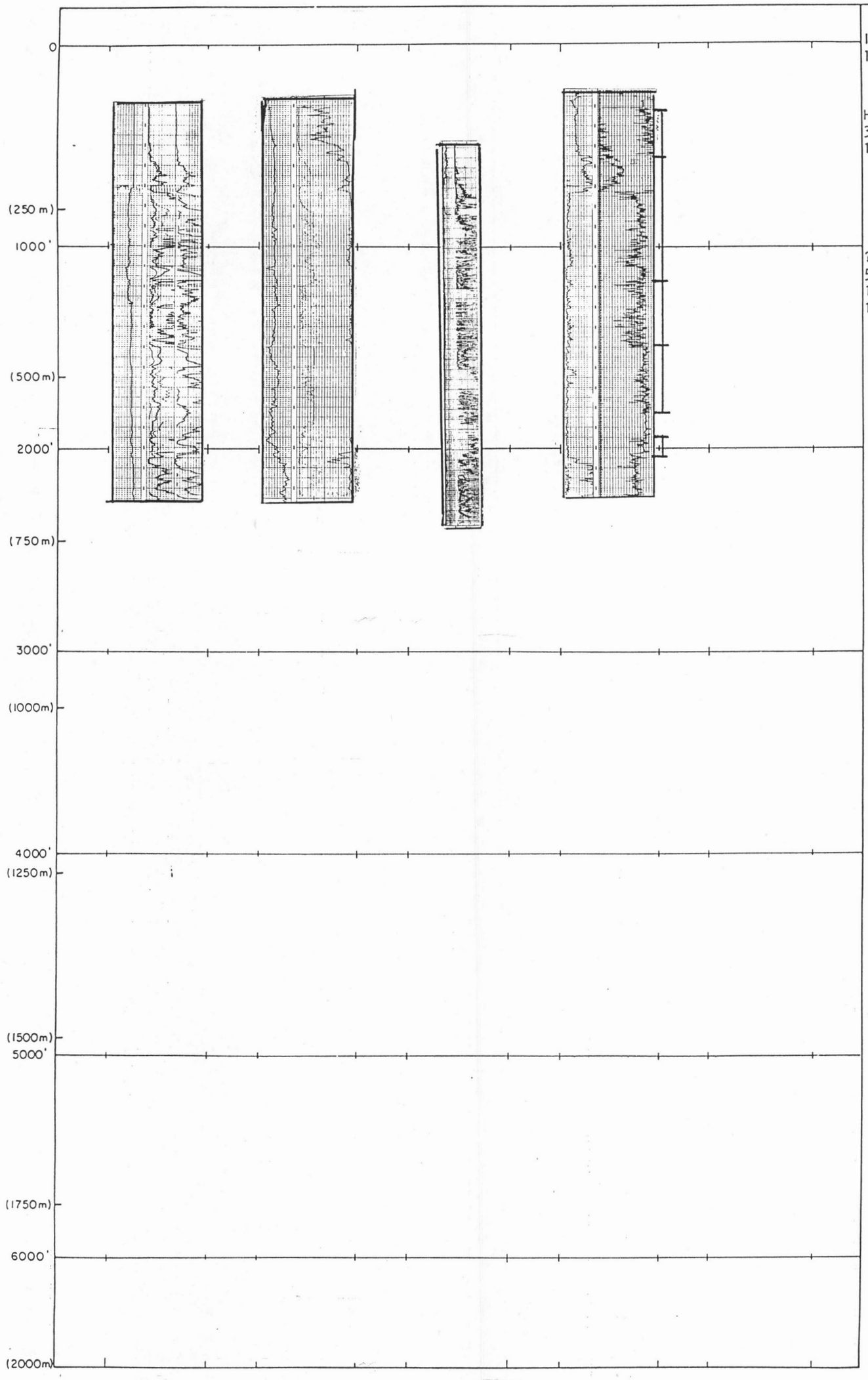
HARDY ASSOCIATES (1978) LTD.
CONSULTING ENGINEERING & PROFESSIONAL SERVICES

PERMAFROST / GAS HYDRATE STUDY
NORTHWEST TERRITORIES – YUKON

WRIGLEY G-70

CG10136

FIGURE 164



LOGS (LEFT TO RIGHT)

- (A) E LOG
- (B) IND E
- (C) MLL
- (D) S-GR
- (E)

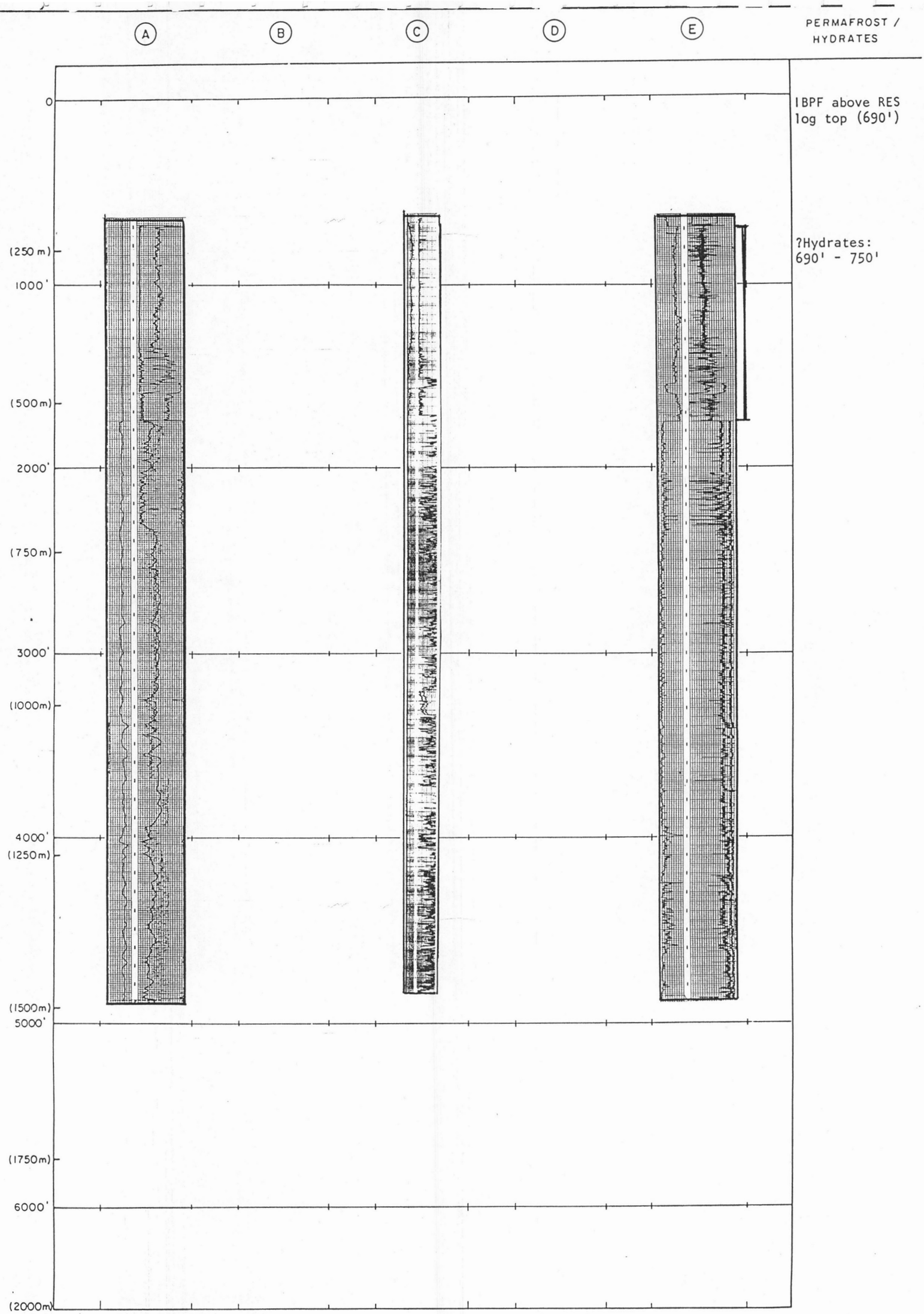
HARDY ASSOCIATES (1978) LTD.
CONSULTING ENGINEERING & PROFESSIONAL SERVICES

PERMAFROST / GAS HYDRATE STUDY
NORTHWEST TERRITORIES - YUKON

CARTRIDGE F-72

CG10136

FIGURE 165



LOGS (LEFT TO RIGHT)

- (A) LND E
- (B)
- (C) ML-C
- (D)
- (E) S-GR

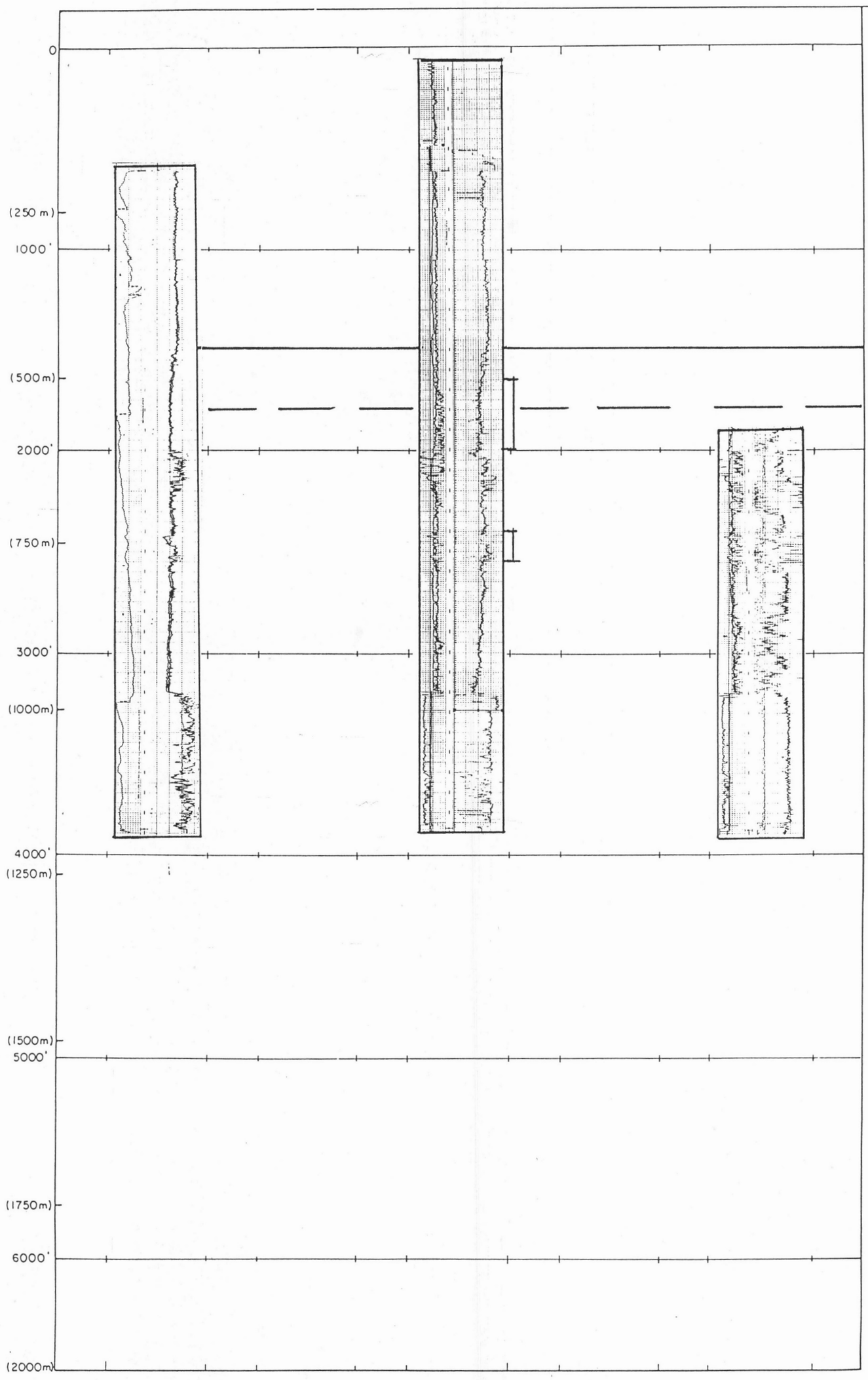
HARDY ASSOCIATES (1978) LTD.
CONSULTING ENGINEERING & PROFESSIONAL SERVICES

PERMAFROST / GAS HYDRATE STUDY
NORTHWEST TERRITORIES - YUKON

OCHRE RIVER I-15

CG10136

FIGURE 166



LOGS (LEFT TO RIGHT)

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

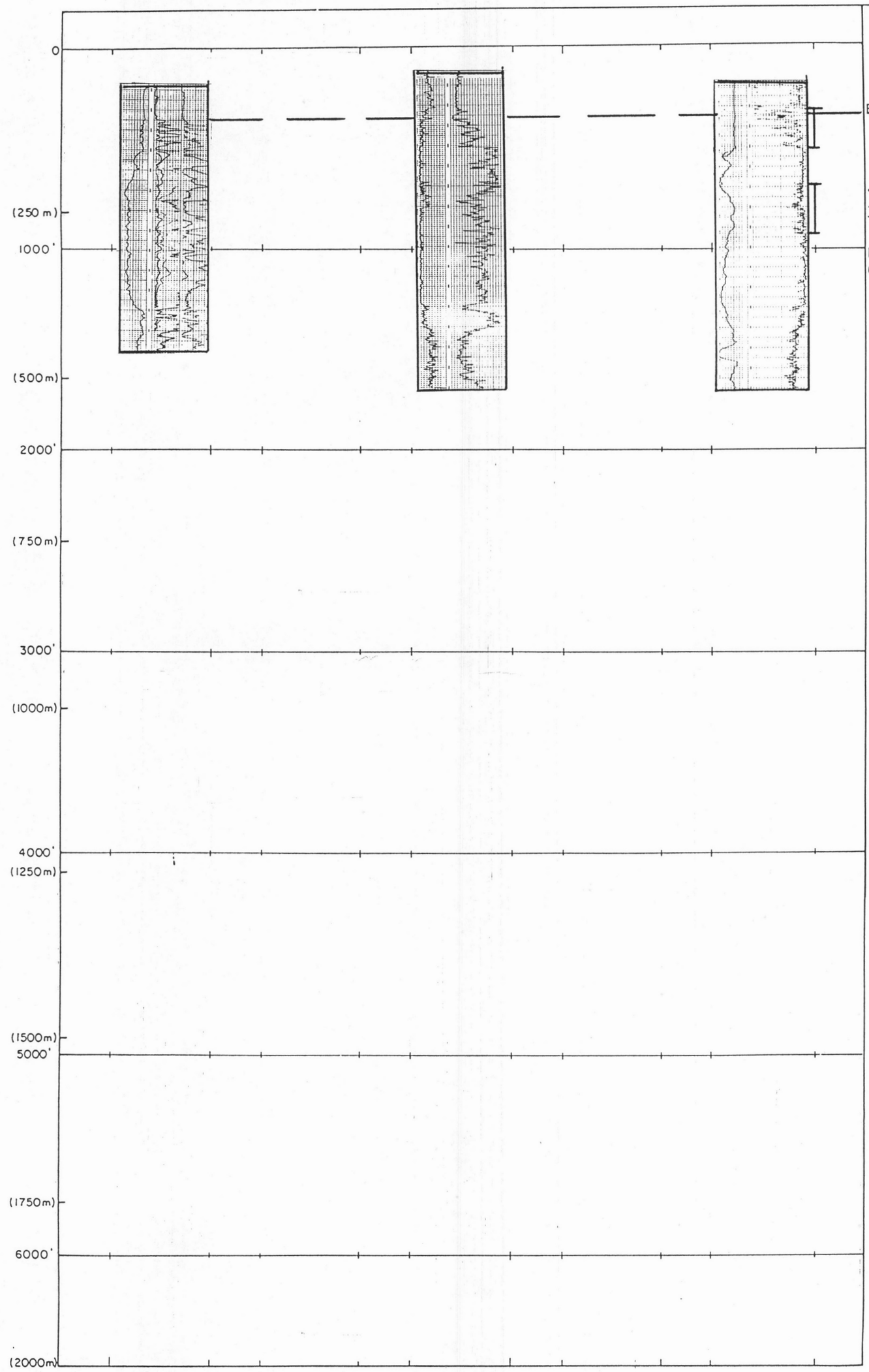
HARDY ASSOCIATES (1978) LTD.
CONSULTING ENGINEERING & PROFESSIONAL SERVICES

PERMAFROST / GAS HYDRATE STUDY
NORTHWEST TERRITORIES – YUKON

JOHNSON A-12

CG10136

FIGURE 167



LOGS (LEFT TO RIGHT)

- (A) E LOG
- (B)
- (C) GRN
- (D)
- (E) SONIC

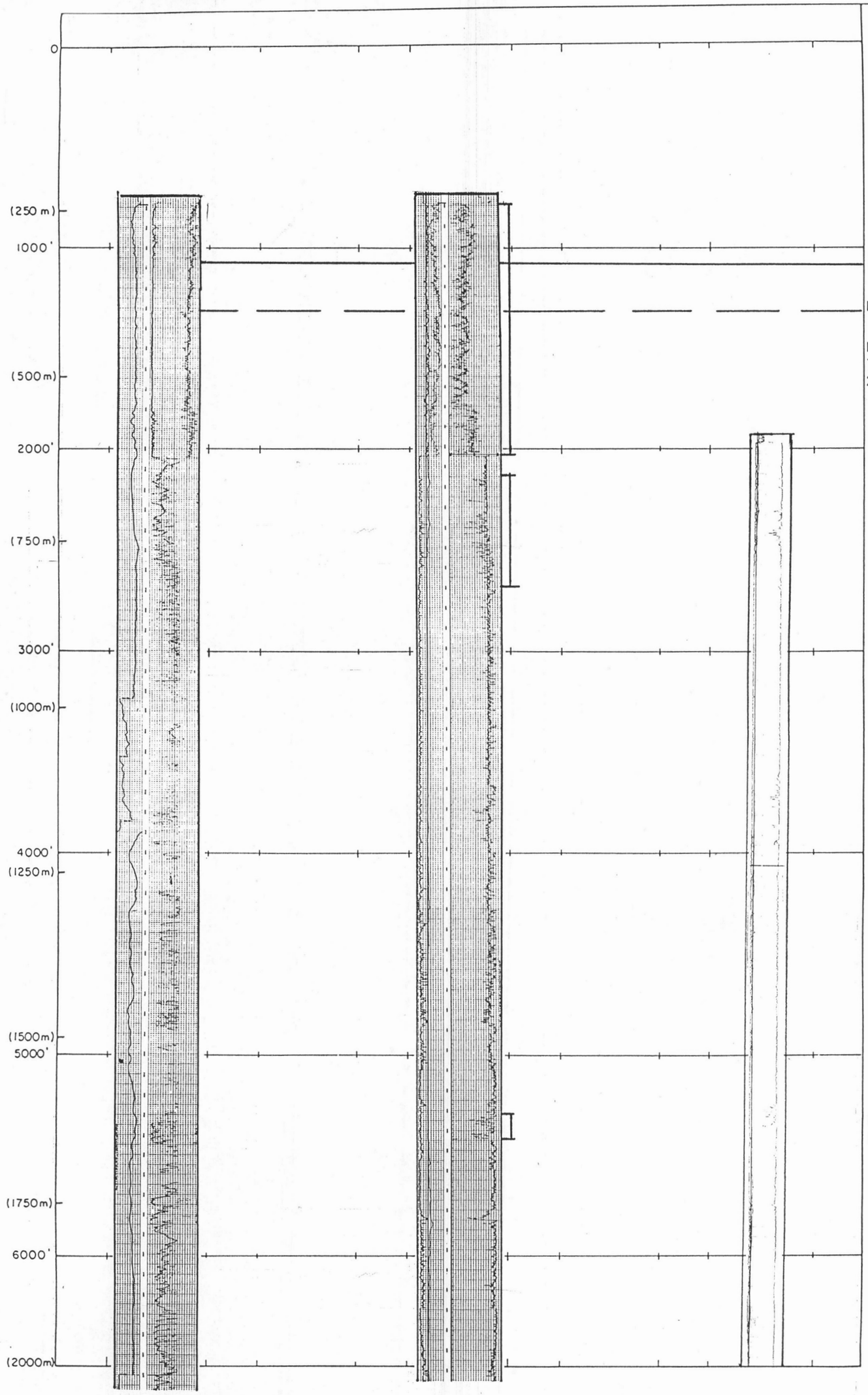
HARDY ASSOCIATES (1978) LTD.
CONSULTING ENGINEERING & PROFESSIONAL SERVICES

PERMAFROST / GAS HYDRATE STUDY
NORTHWEST TERRITORIES – YUKON

LAC TACHE C-35

CGI0136

FIGURE 168



LOGS (LEFT TO RIGHT)

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

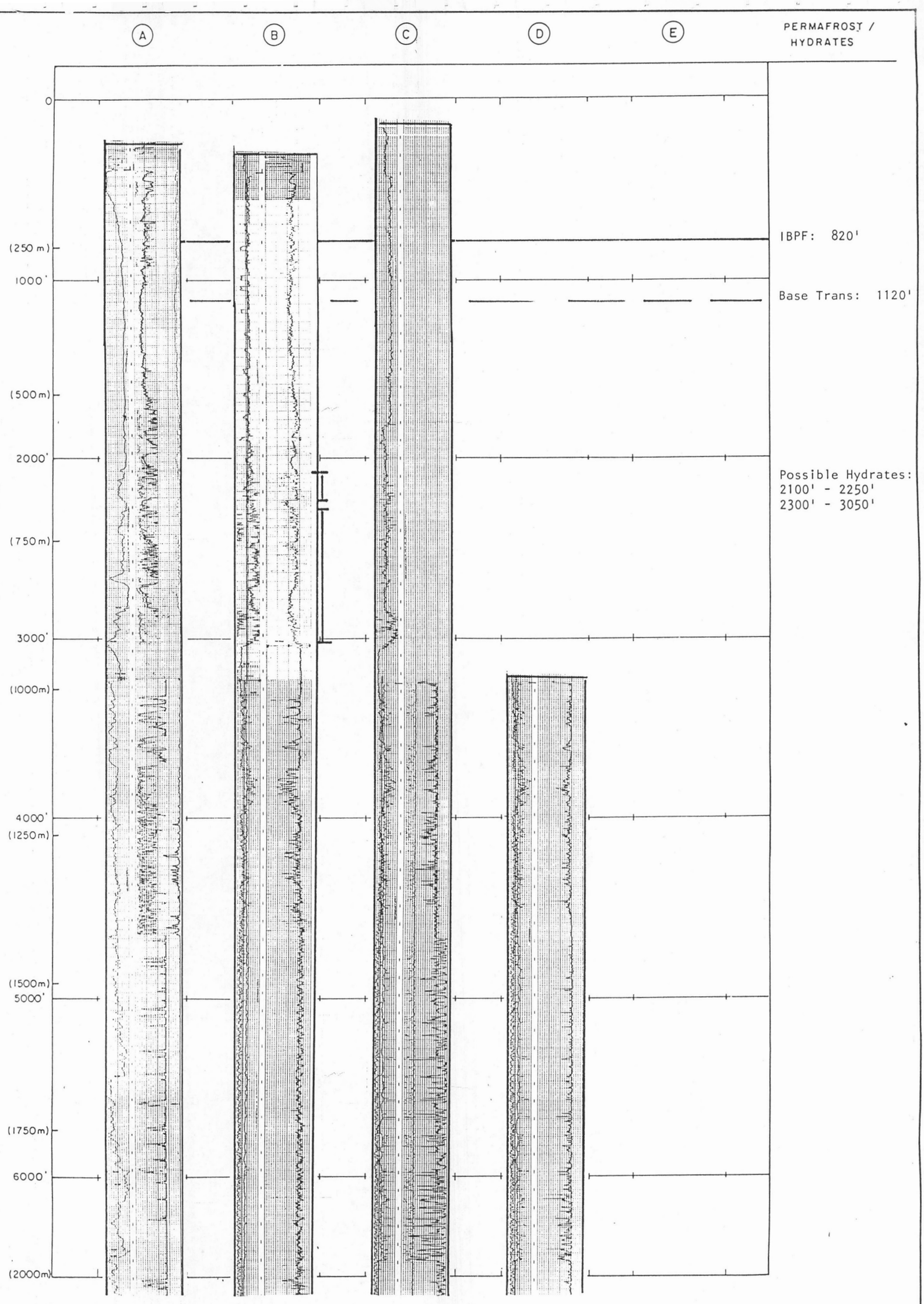
HARDY ASSOCIATES (1978) LTD.
CONSULTING ENGINEERING & PROFESSIONAL SERVICES

PERMAFROST / GAS HYDRATE STUDY
NORTHWEST TERRITORIES – YUKON

BLACKWATER E-11

CGI0136

FIGURE 169



LOGS (LEFT TO RIGHT)

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

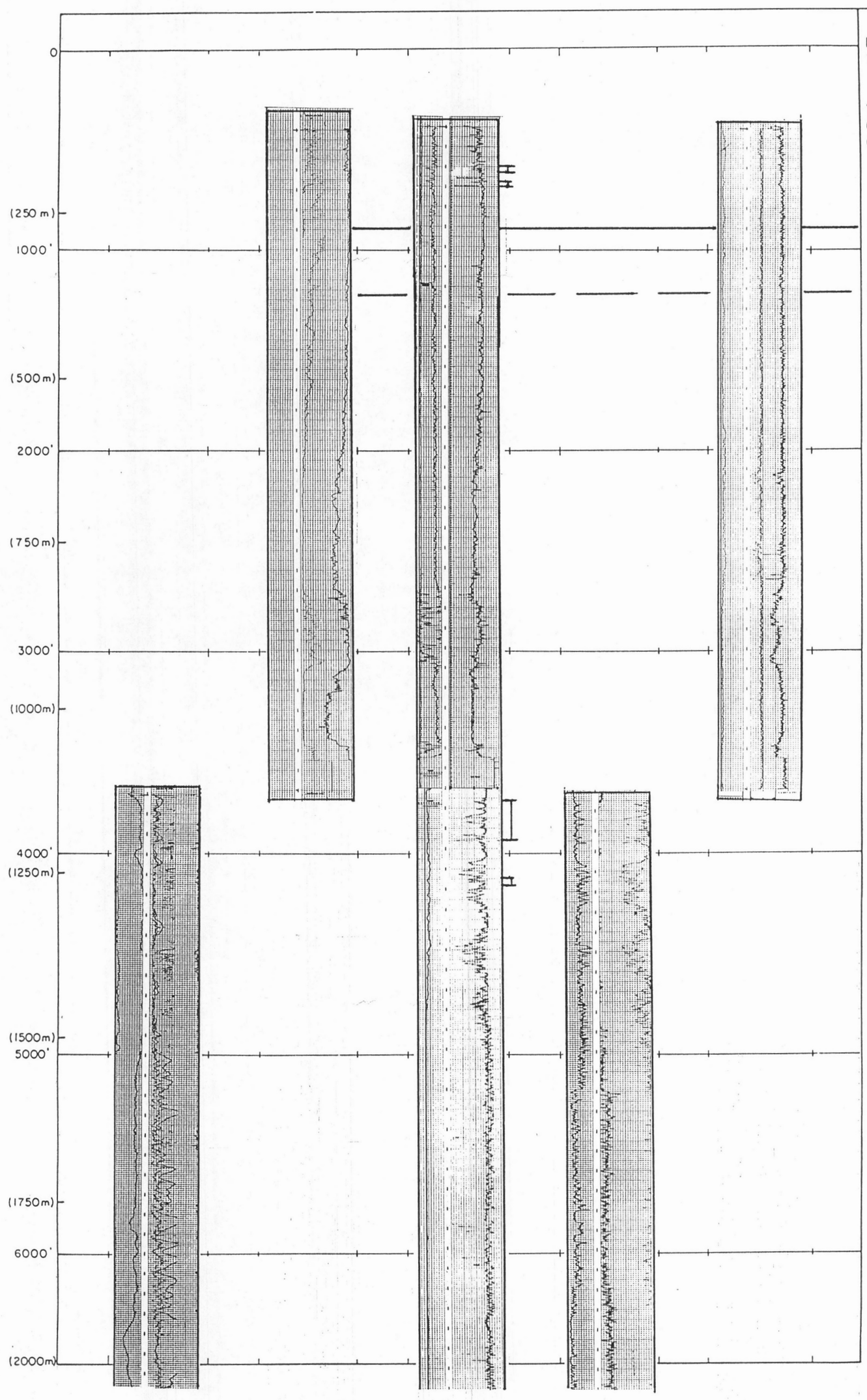
HARDY ASSOCIATES (1978) LTD.
CONSULTING ENGINEERING & PROFESSIONAL SERVICES

PERMAFROST / GAS HYDRATE STUDY
NORTHWEST TERRITORIES – YUKON

PLATEAU G-51

CGI0136

FIGURE 170



LOGS (LEFT TO RIGHT)

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

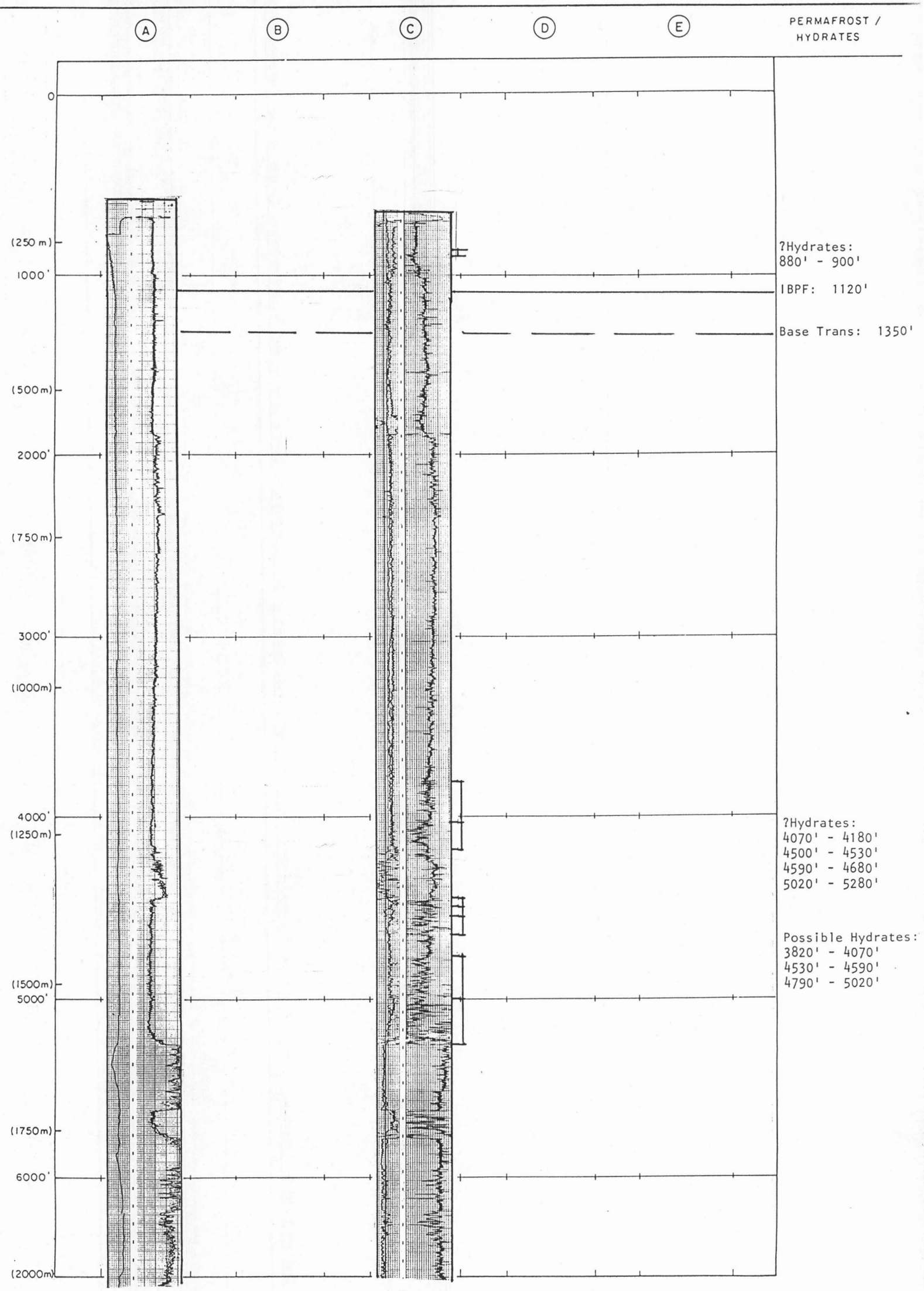
HARDY ASSOCIATES (1978) LTD.
CONSULTING ENGINEERING & PROFESSIONAL SERVICES

PERMAFROST / GAS HYDRATE STUDY
NORTHWEST TERRITORIES - YUKON

DAHADINNI M-43A

CGI0136

FIGURE 171



LOGS (LEFT TO RIGHT)

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

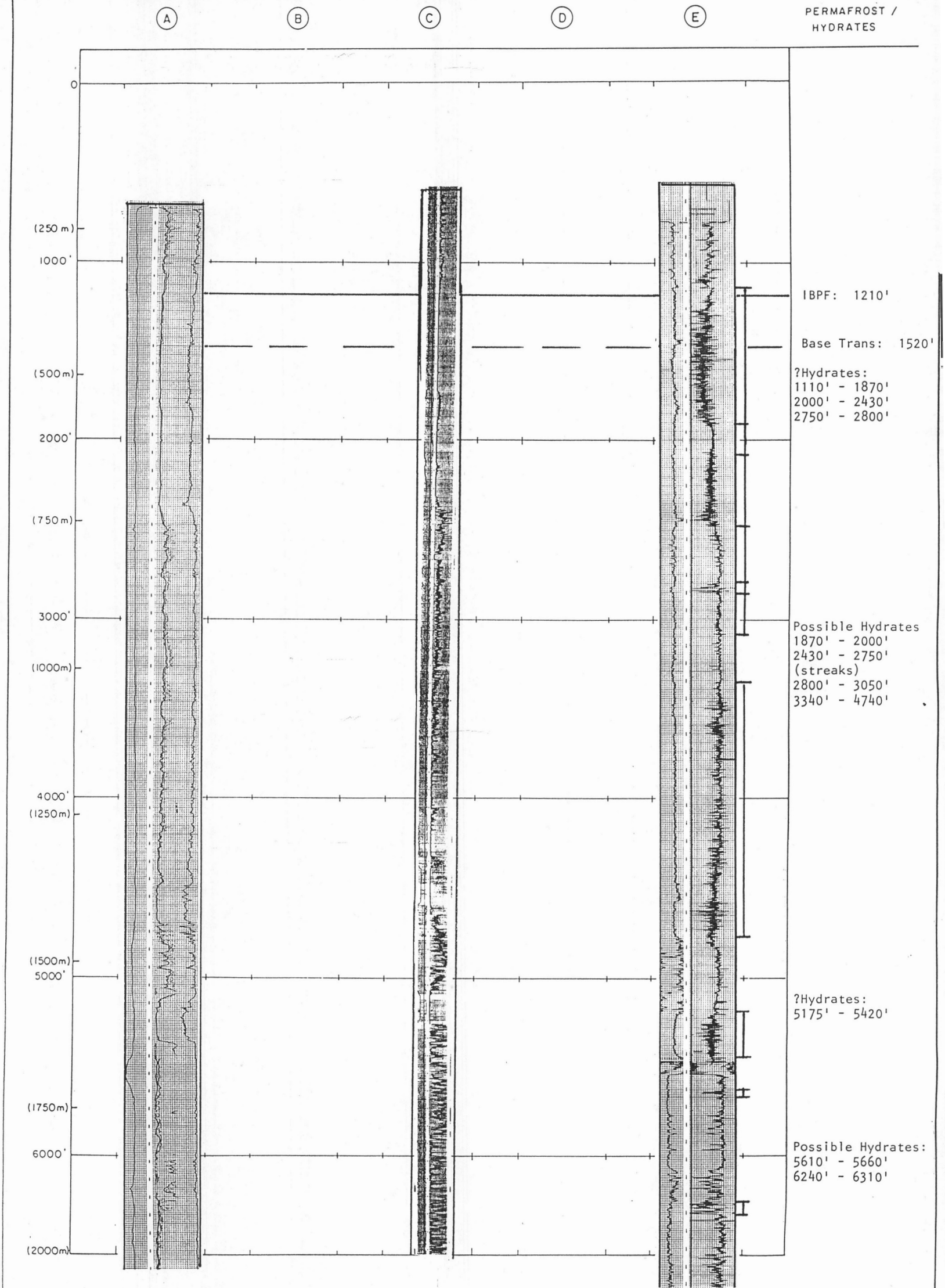
HARDY ASSOCIATES (1978) LTD.
CONSULTING ENGINEERING & PROFESSIONAL SERVICES

PERMAFROST / GAS HYDRATE STUDY
NORTHWEST TERRITORIES - YUKON

DAHADINNI D-65

CGI0136

FIGURE 172



LOGS (LEFT TO RIGHT)

- (A) IND E
- (B)
- (C) ML-C
- (D)
- (E) S GR

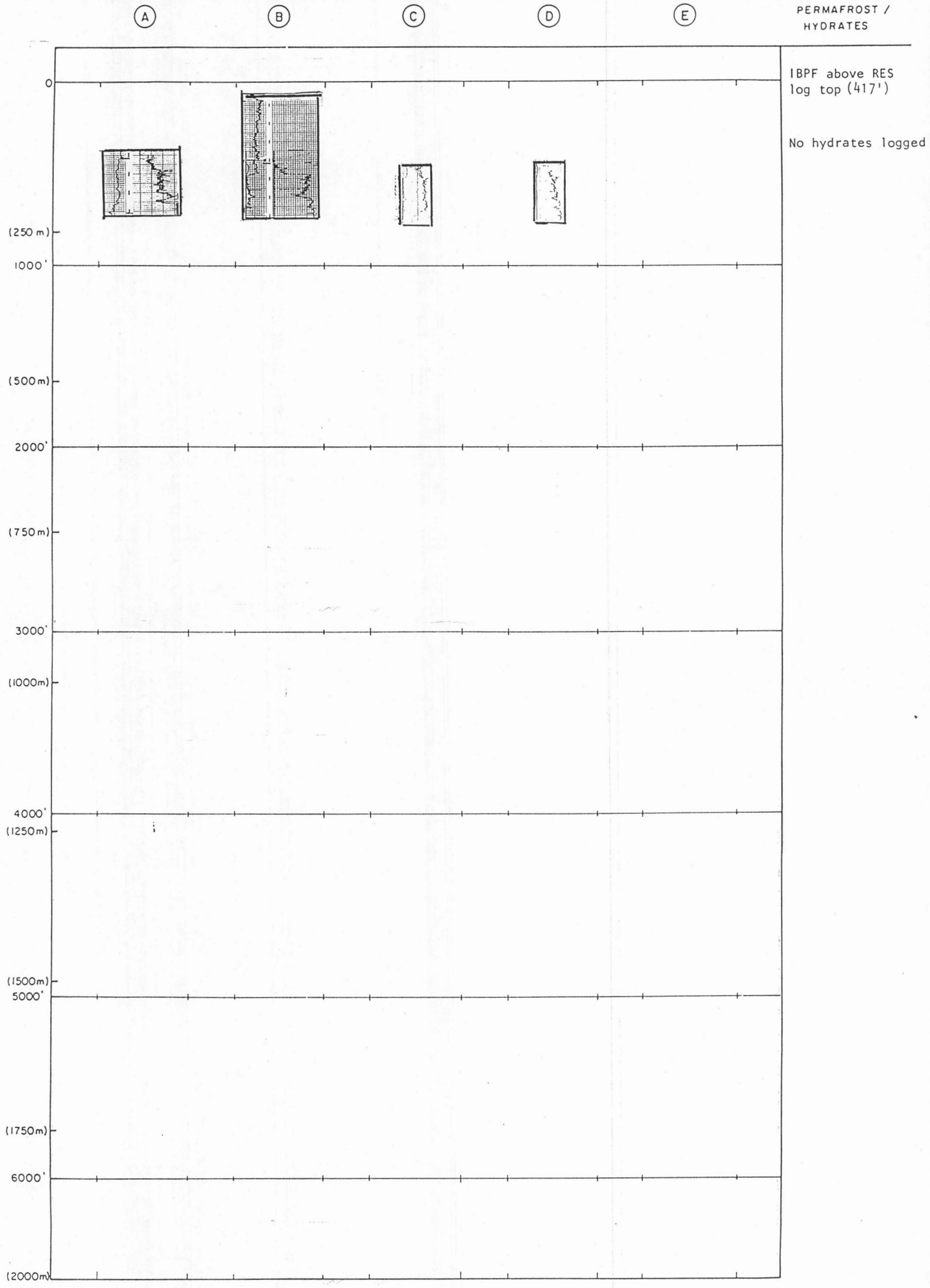
HARDY ASSOCIATES (1978) LTD.
CONSULTING ENGINEERING & PROFESSIONAL SERVICES

PERMAFROST / GAS HYDRATE STUDY
NORTHWEST TERRITORIES – YUKON

CLOVERLEAF I-46

CG10136

FIGURE 173



LOGS (LEFT TO RIGHT)

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

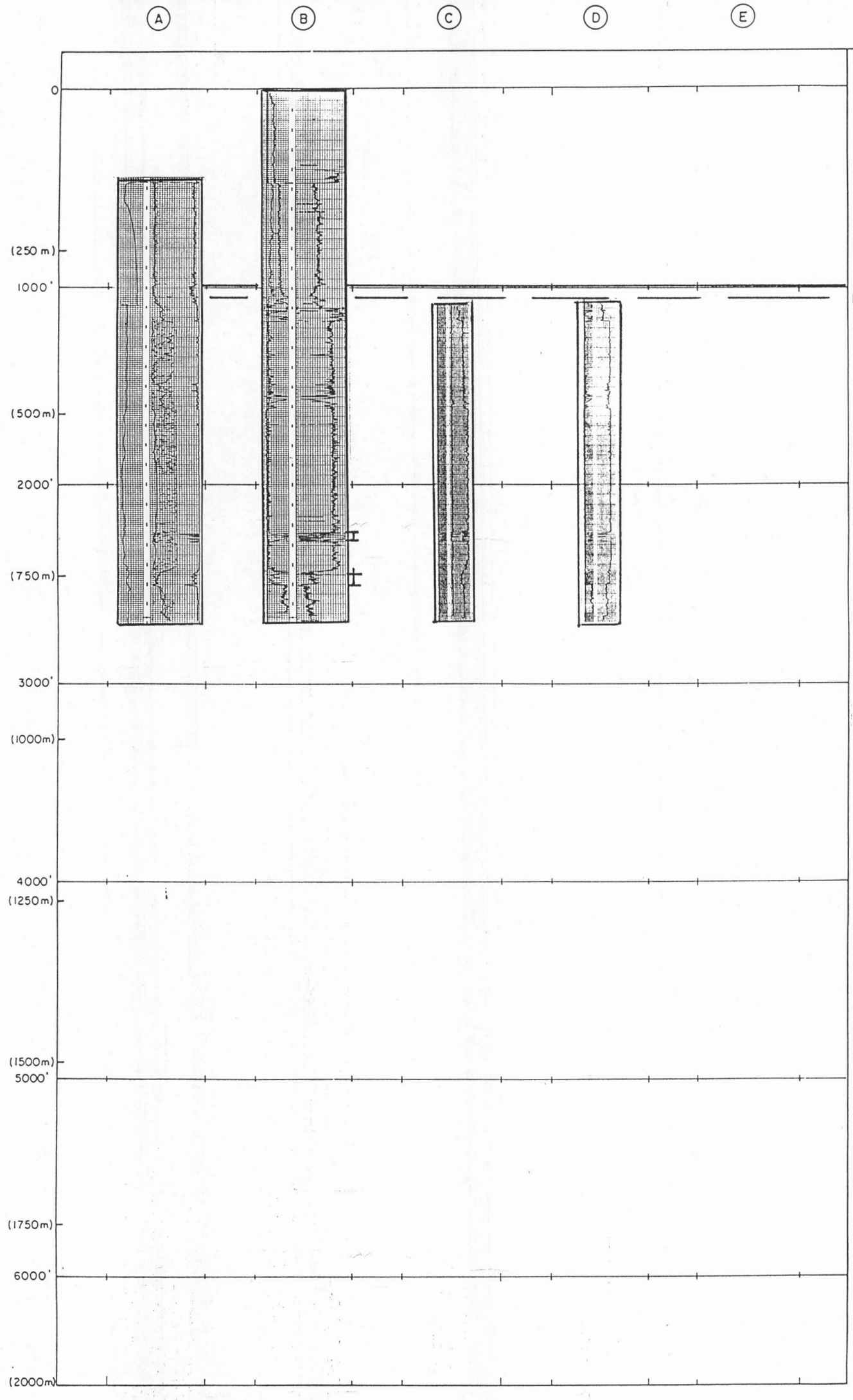
HARDY ASSOCIATES (1978) LTD.
CONSULTING ENGINEERING & PROFESSIONAL SERVICES

PERMAFROST / GAS HYDRATE STUDY
NORTHWEST TERRITORIES – YUKON

KELLER LAKE F-49

CG10136

FIGURE 174



LOGS (LEFT TO RIGHT)

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

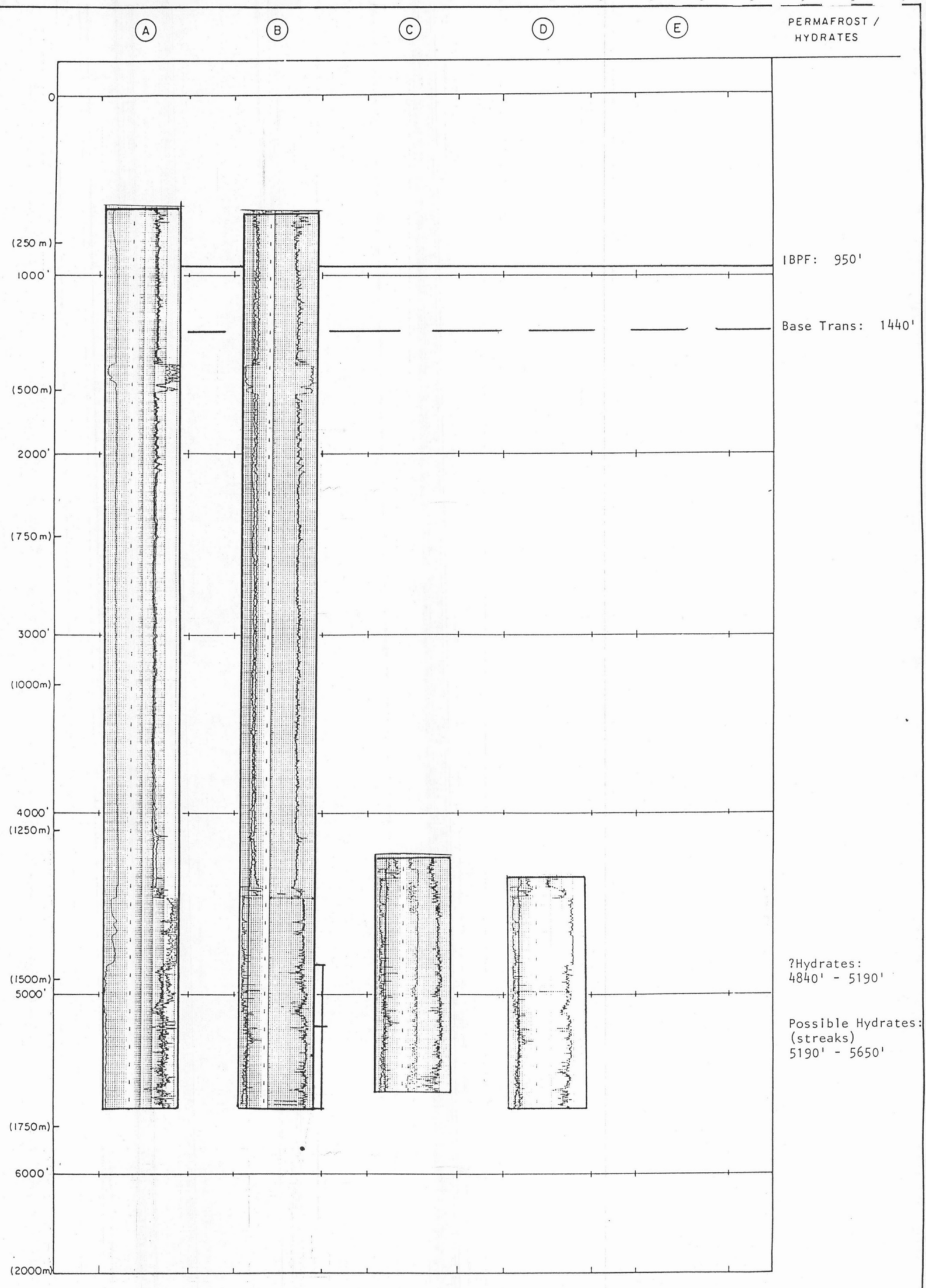
HARDY ASSOCIATES (1978) LTD.
CONSULTING ENGINEERING & PROFESSIONAL SERVICES

PERMAFROST / GAS HYDRATE STUDY
NORTHWEST TERRITORIES - YUKON

TRAIL RIVER P-13

CGI0136

FIGURE 175



LOGS (LEFT TO RIGHT)

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

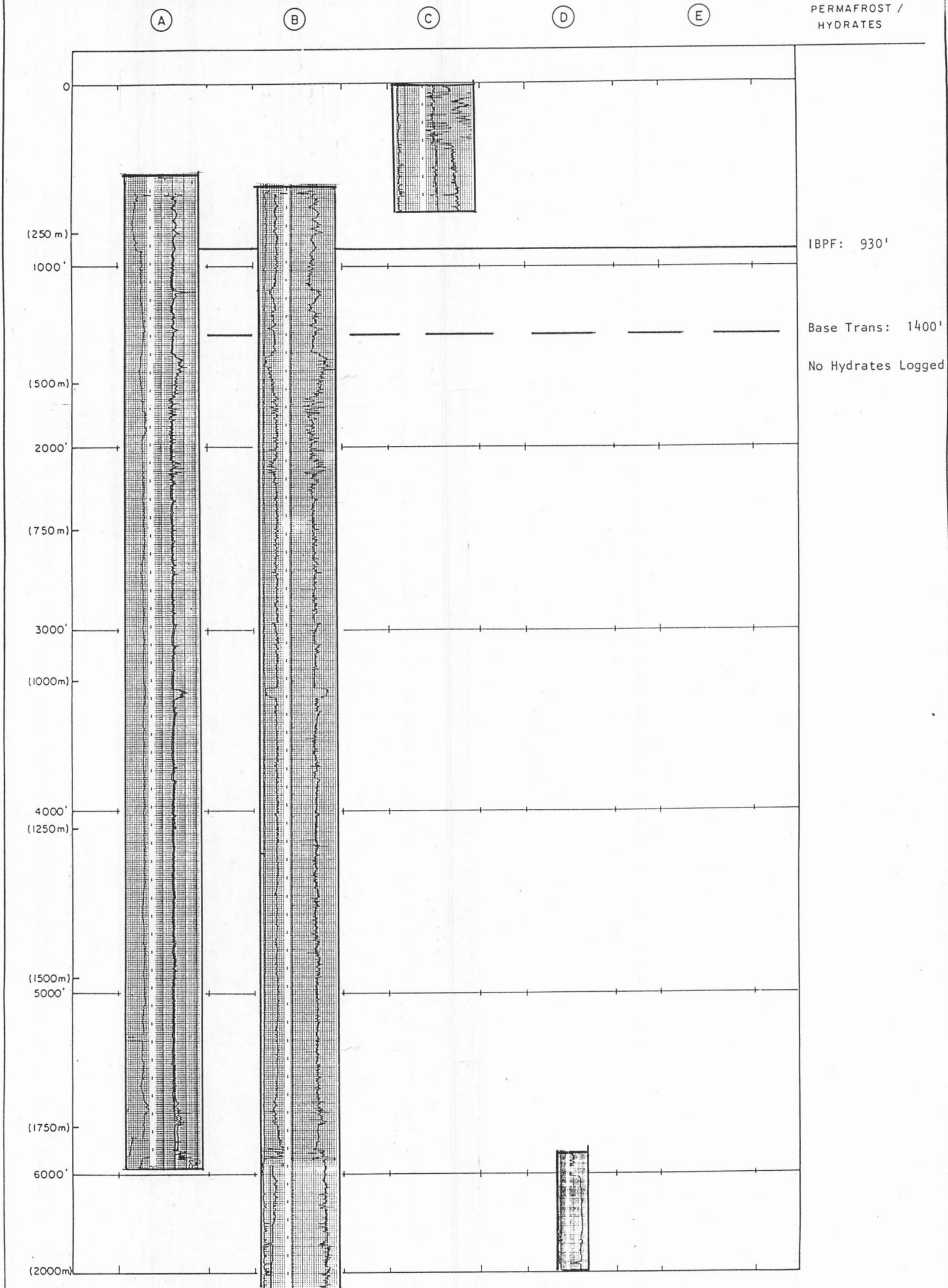
HARDY ASSOCIATES (1978) LTD.
CONSULTING ENGINEERING & PROFESSIONAL SERVICES

PERMAFROST / GAS HYDRATE STUDY
NORTHWEST TERRITORIES - YUKON

CLI LAKE G-15

CGI0136

FIGURE 176



LOGS (LEFT TO RIGHT)

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

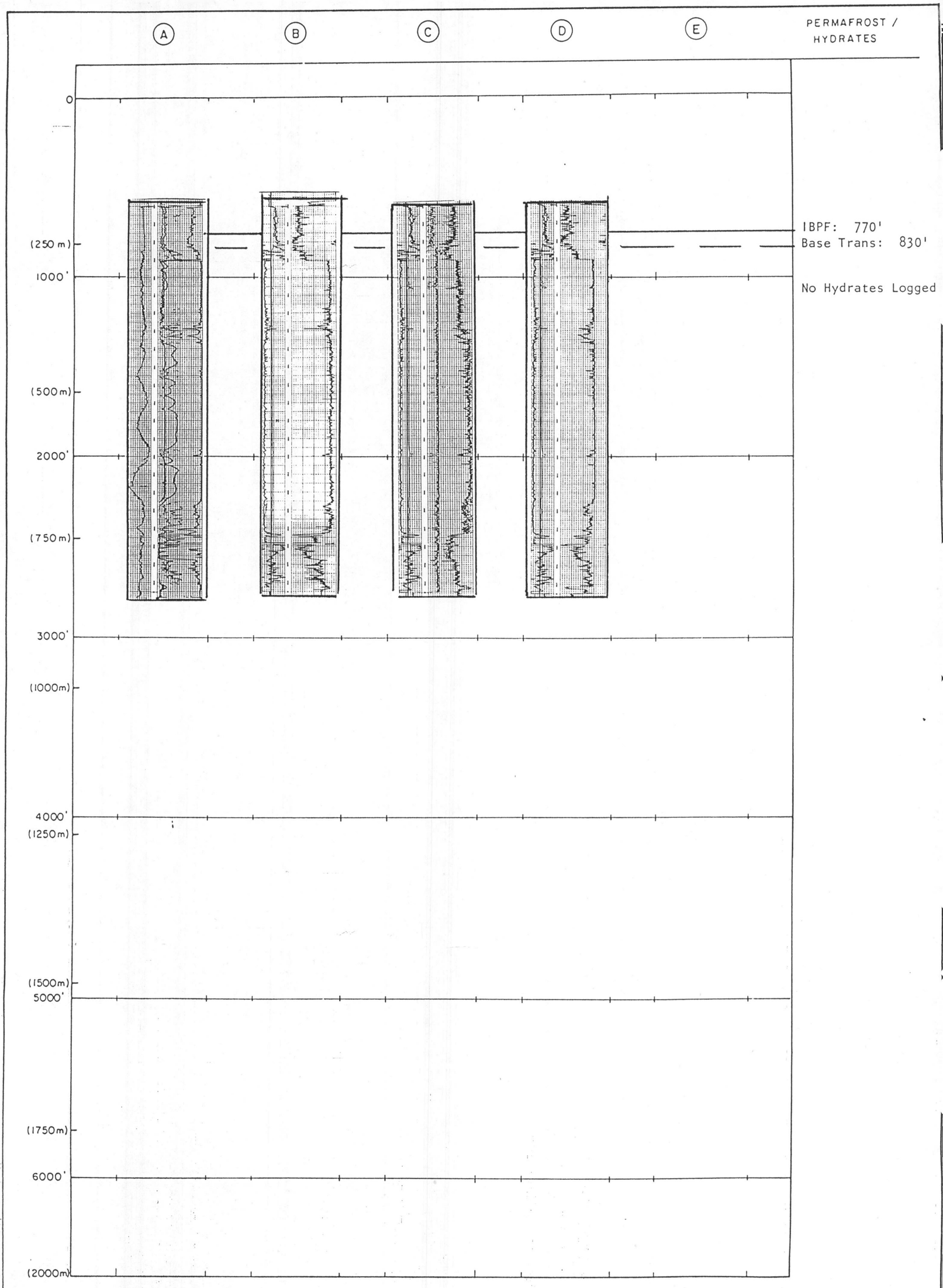
HARDY ASSOCIATES (1978) LTD.
CONSULTING ENGINEERING & PROFESSIONAL SERVICES

PERMAFROST / GAS HYDRATE STUDY
NORTHWEST TERRITORIES – YUKON

CLI LAKE K-54

CG10136

FIGURE 177



LOGS (LEFT TO RIGHT)

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

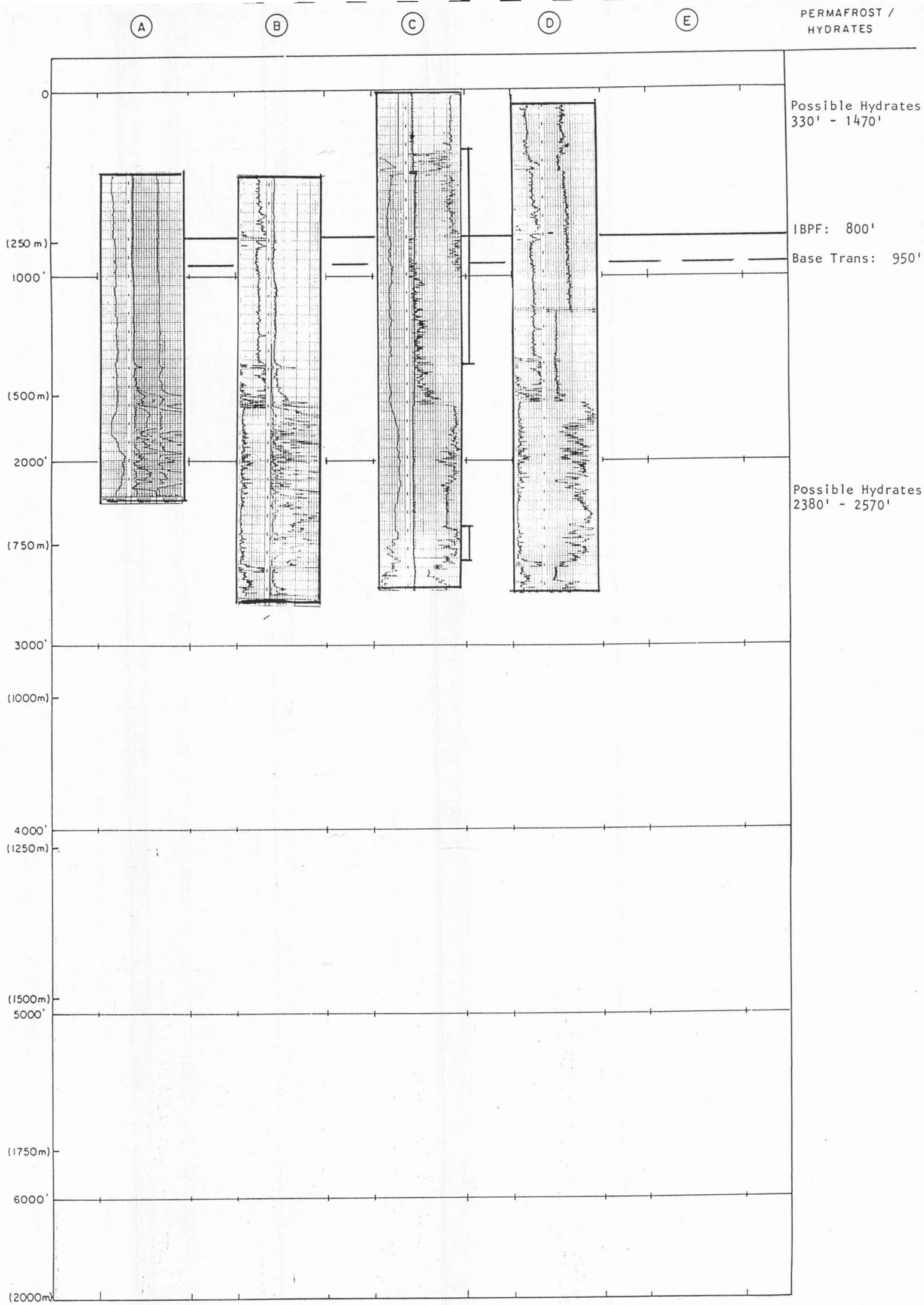
HARDY ASSOCIATES (1978) LTD.
CONSULTING ENGINEERING & PROFESSIONAL SERVICES

PERMAFROST / GAS HYDRATE STUDY
NORTHWEST TERRITORIES – YUKON

WILLOW LAKE L-59

CGI0136

FIGURE 178



LOGS (LEFT TO RIGHT)

- (A) E LOG
- (B) LL
- (C) SONIC
- (D) GRN
- (E)

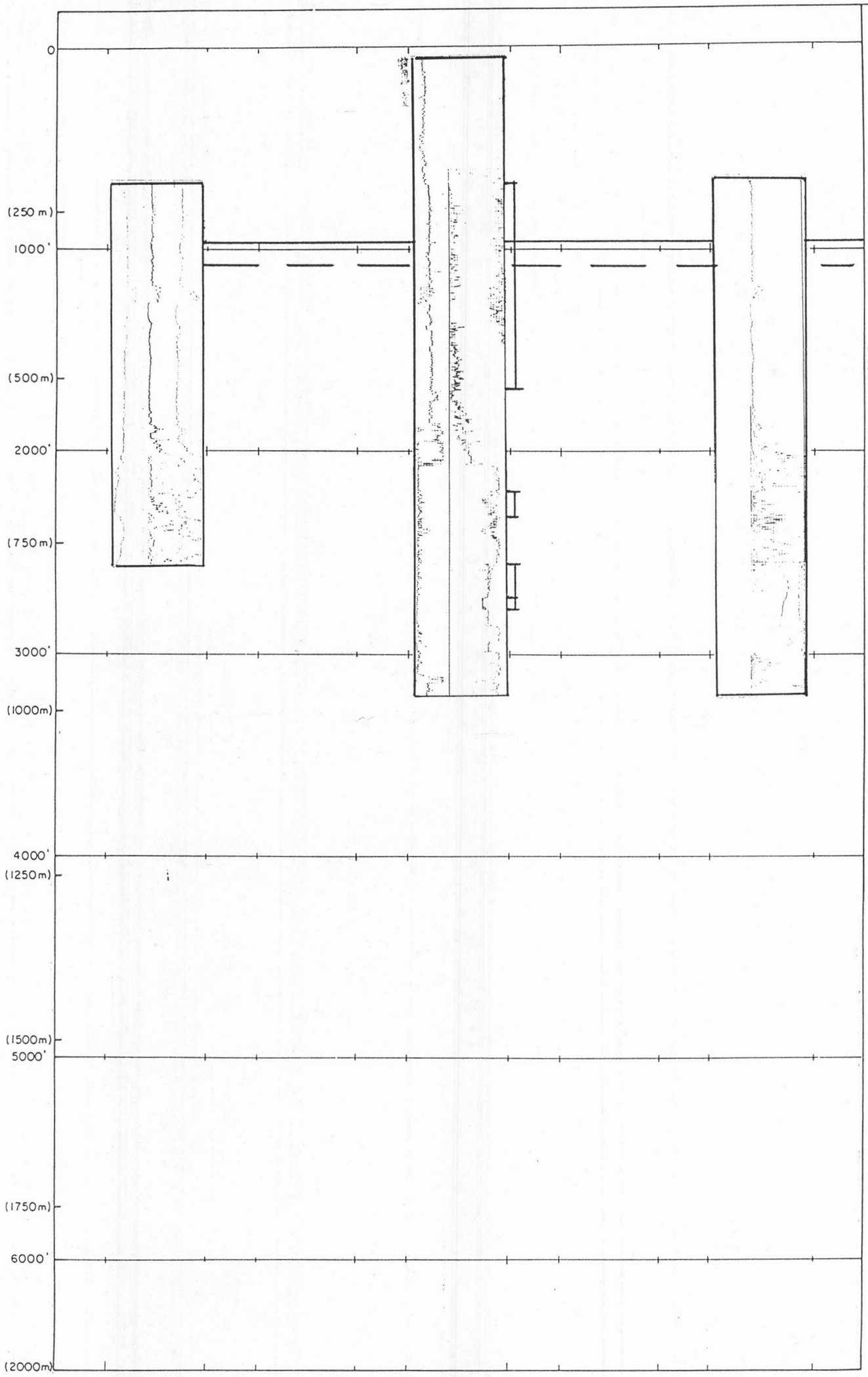
HARDY ASSOCIATES (1978) LTD.
CONSULTING ENGINEERING & PROFESSIONAL SERVICES

PERMAFROST / GAS HYDRATE STUDY
NORTHWEST TERRITORIES – YUKON

DAVIDSON CREEK P-2

CGI0136

FIGURE . 179



LOGS (LEFT TO RIGHT)

Ⓐ E LOG

Ⓑ

Ⓒ SONIC

Ⓓ

Ⓔ LL

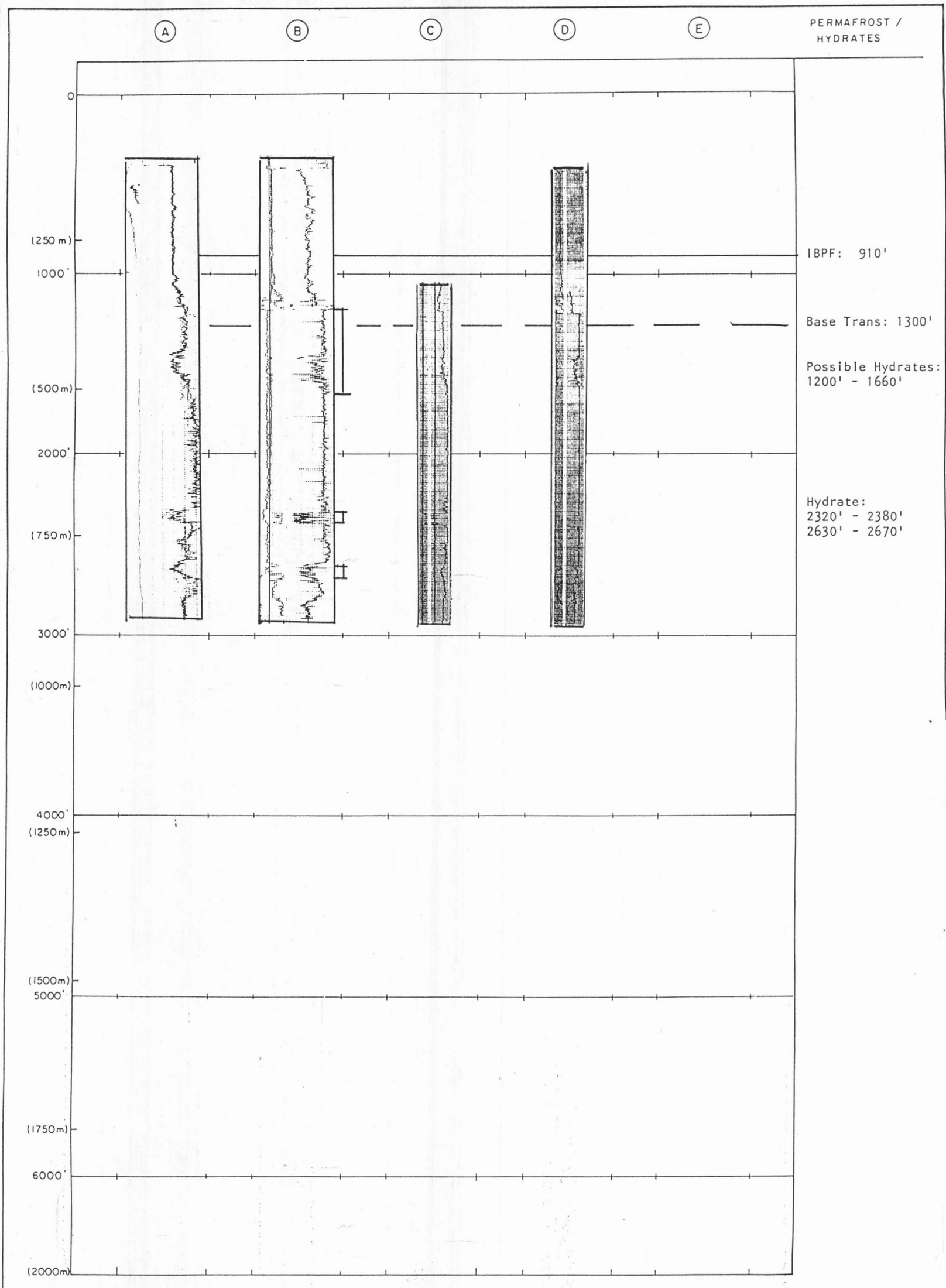
HARDY ASSOCIATES (1978) LTD.
CONSULTING ENGINEERING & PROFESSIONAL SERVICES

PERMAFROST / GAS HYDRATE STUDY
NORTHWEST TERRITORIES – YUKON

WILLOW LAKE B-20

CG10136

FIGURE 180



LOGS (LEFT TO RIGHT)

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

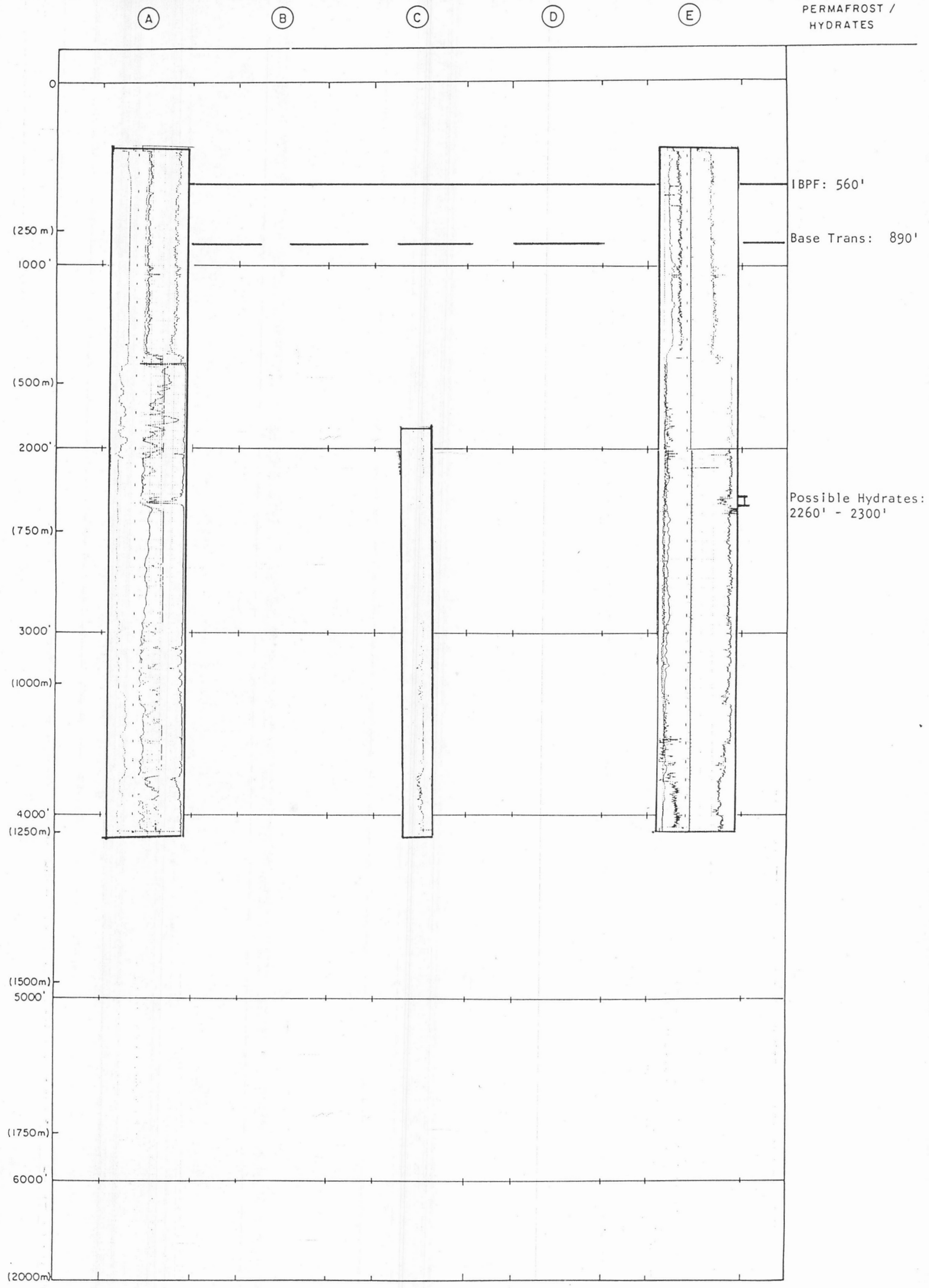
HARDY ASSOCIATES (1978) LTD.
CONSULTING ENGINEERING & PROFESSIONAL SERVICES

PERMAFROST / GAS HYDRATE STUDY
NORTHWEST TERRITORIES – YUKON

WILLOW LAKE O-27A

CGI0136

FIGURE 181



LOGS (LEFT TO RIGHT)

- (A) LND E
- (B)
- (C) LL
- (D)
- (E) S-GR-C

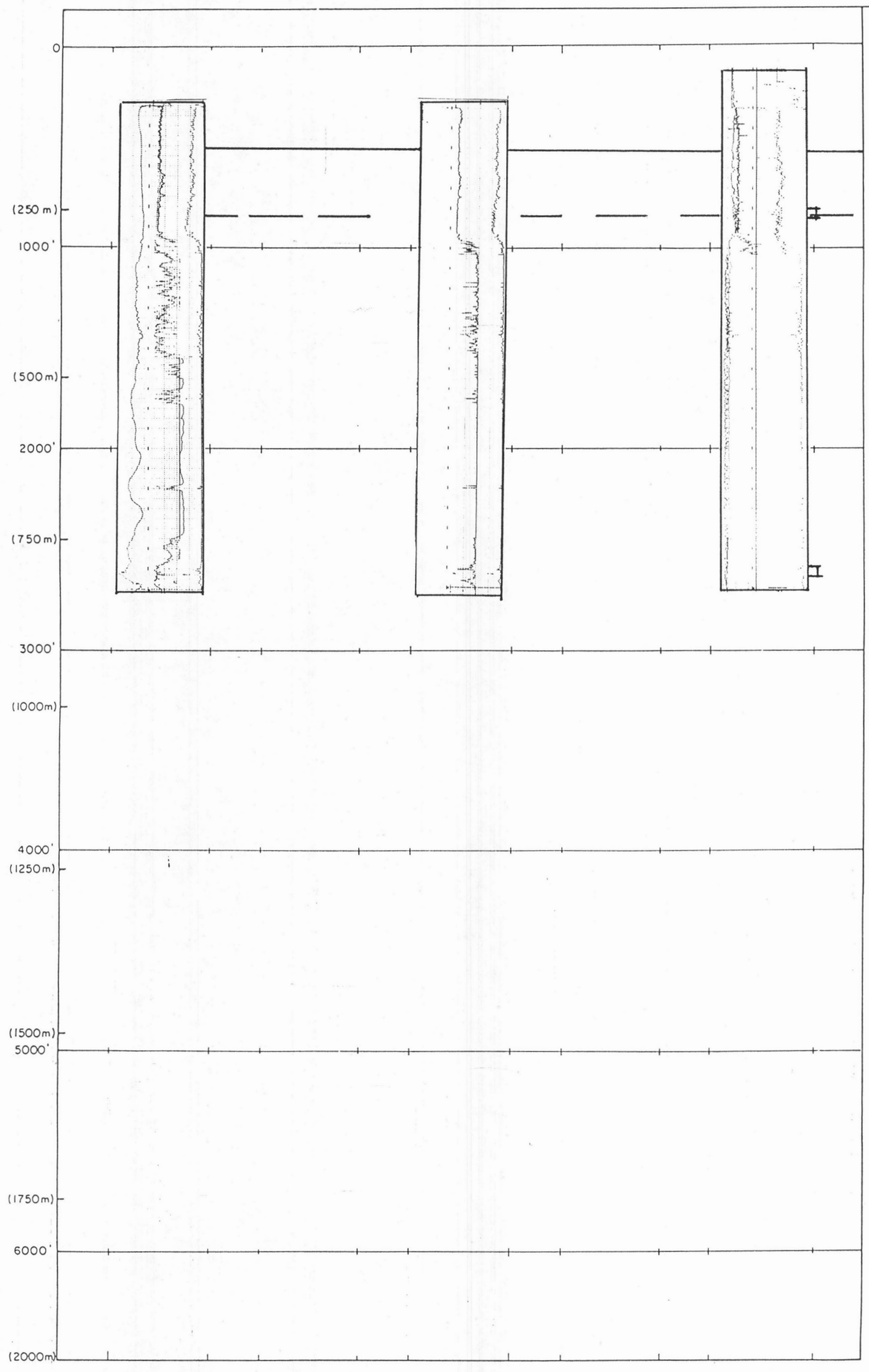
HARDY ASSOCIATES (1978) LTD.
CONSULTING ENGINEERING & PROFESSIONAL SERVICES

PERMAFROST / GAS HYDRATE STUDY
NORTHWEST TERRITORIES - YUKON

EBBUTT D-50

CGI0136

FIGURE 182



LOGS (LEFT TO RIGHT)

- (A) IND E
- (B)
- (C) LL
- (D)
- (E) SONIC

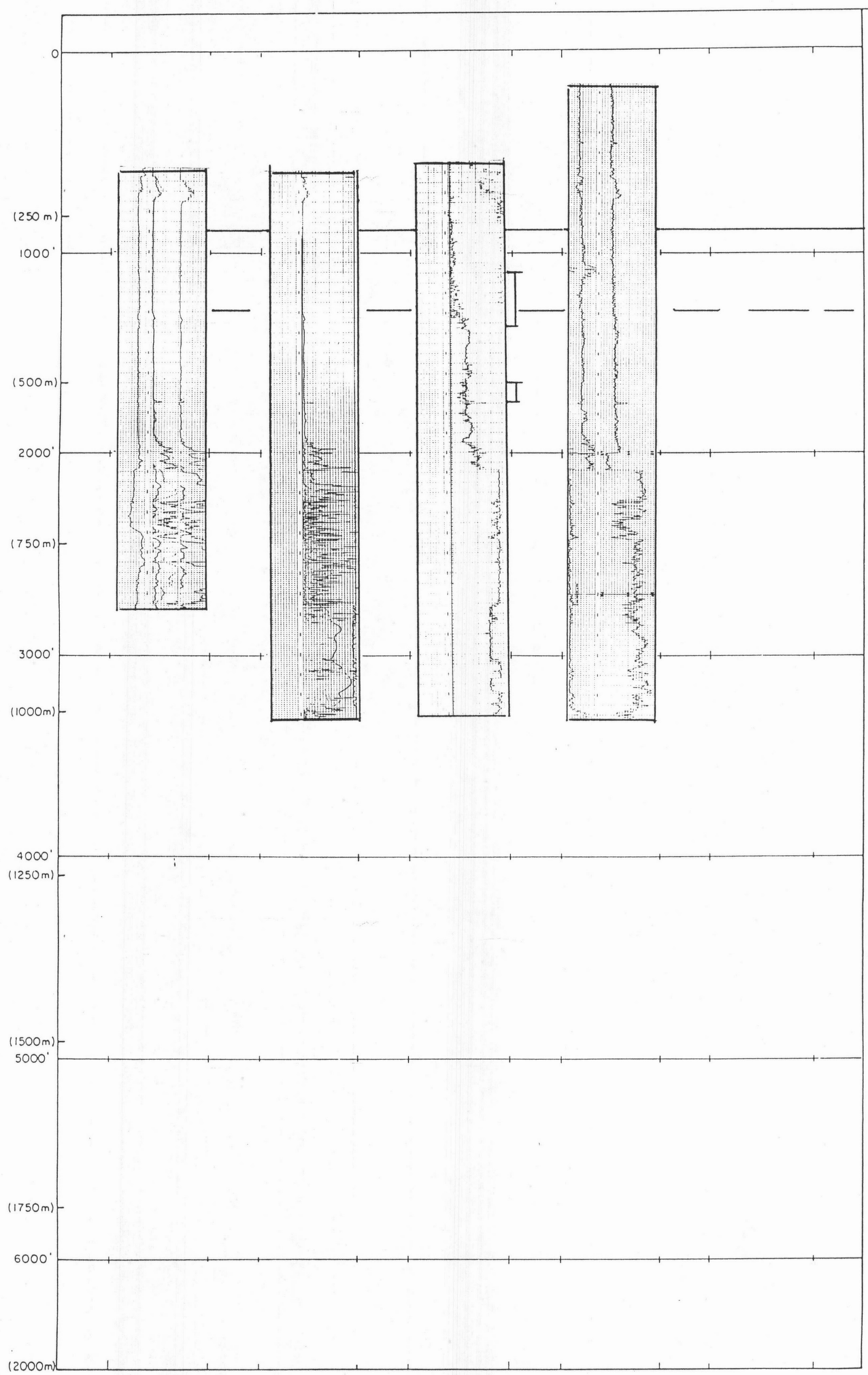
HARDY ASSOCIATES (1978) LTD.
CONSULTING ENGINEERING & PROFESSIONAL SERVICES

PERMAFROST / GAS HYDRATE STUDY
NORTHWEST TERRITORIES - YUKON

EBBUTT J-70

CG10136

FIGURE 183



LOGS (LEFT TO RIGHT)

- (A) E LOG
- (B) LL
- (C) SONIC
- (D) GRN
- (E)

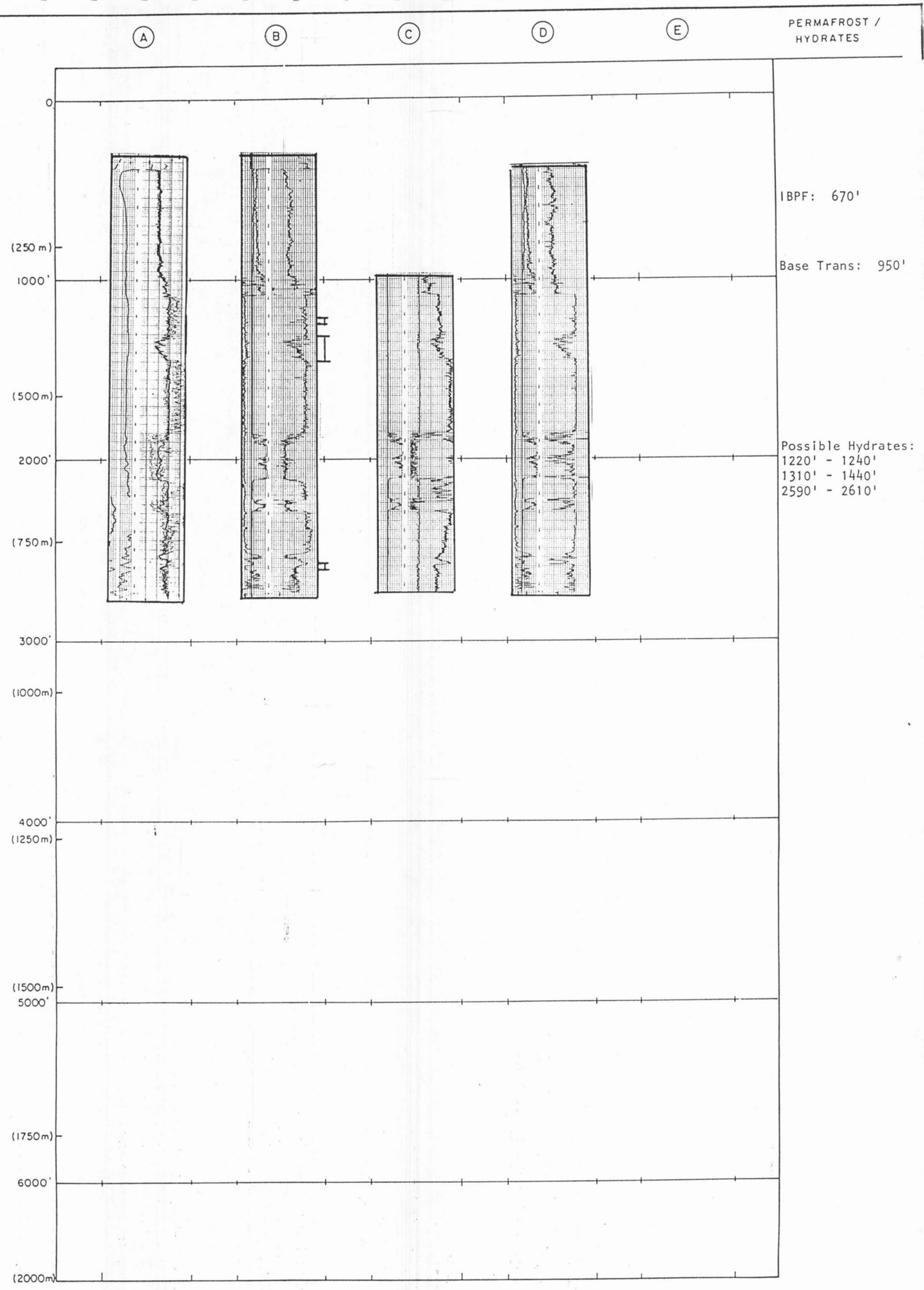
HARDY ASSOCIATES (1978) LTD.
CONSULTING ENGINEERING & PROFESSIONAL SERVICES

PERMAFROST / GAS HYDRATE STUDY
NORTHWEST TERRITORIES - YUKON

HARRIS RIVER F-71

CG10136

FIGURE 184



LOGS (LEFT TO RIGHT)

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

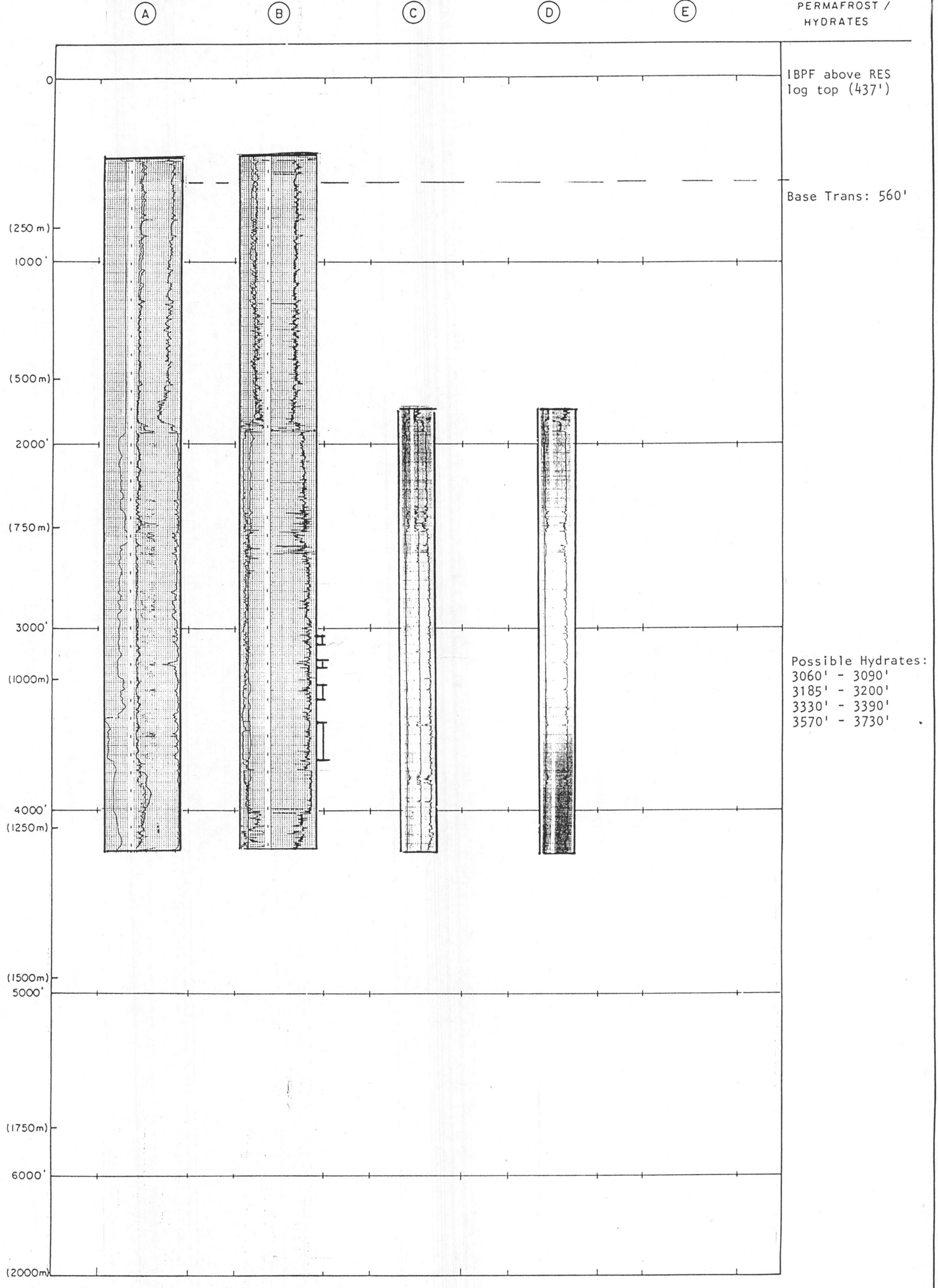
HARDY ASSOCIATES (1978) LTD.
CONSULTING ENGINEERING & PROFESSIONAL SERVICES

PERMAFROST / GAS HYDRATE STUDY
NORTHWEST TERRITORIES - YUKON

WILLOW LAKE G-32

CGI0136

FIGURE 185



LOGS (LEFT TO RIGHT)

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

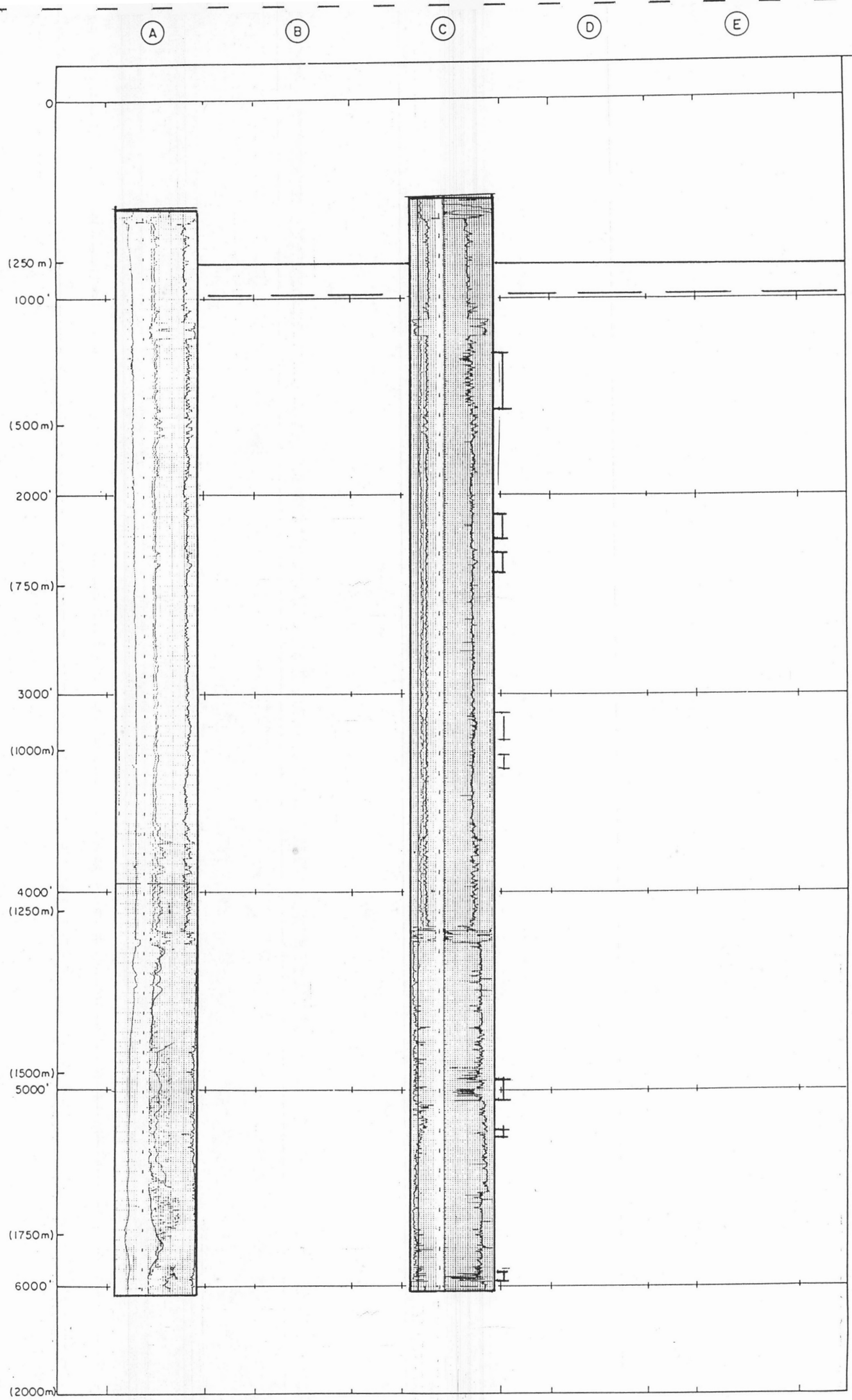
HARDY ASSOCIATES (1978) LTD.
CONSULTING ENGINEERING & PROFESSIONAL SERVICES

PERMAFROST / GAS HYDRATE STUDY
NORTHWEST TERRITORIES - YUKON

EBBUTT G-72

CG10136

FIGURE 186



LOGS (LEFT TO RIGHT)

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

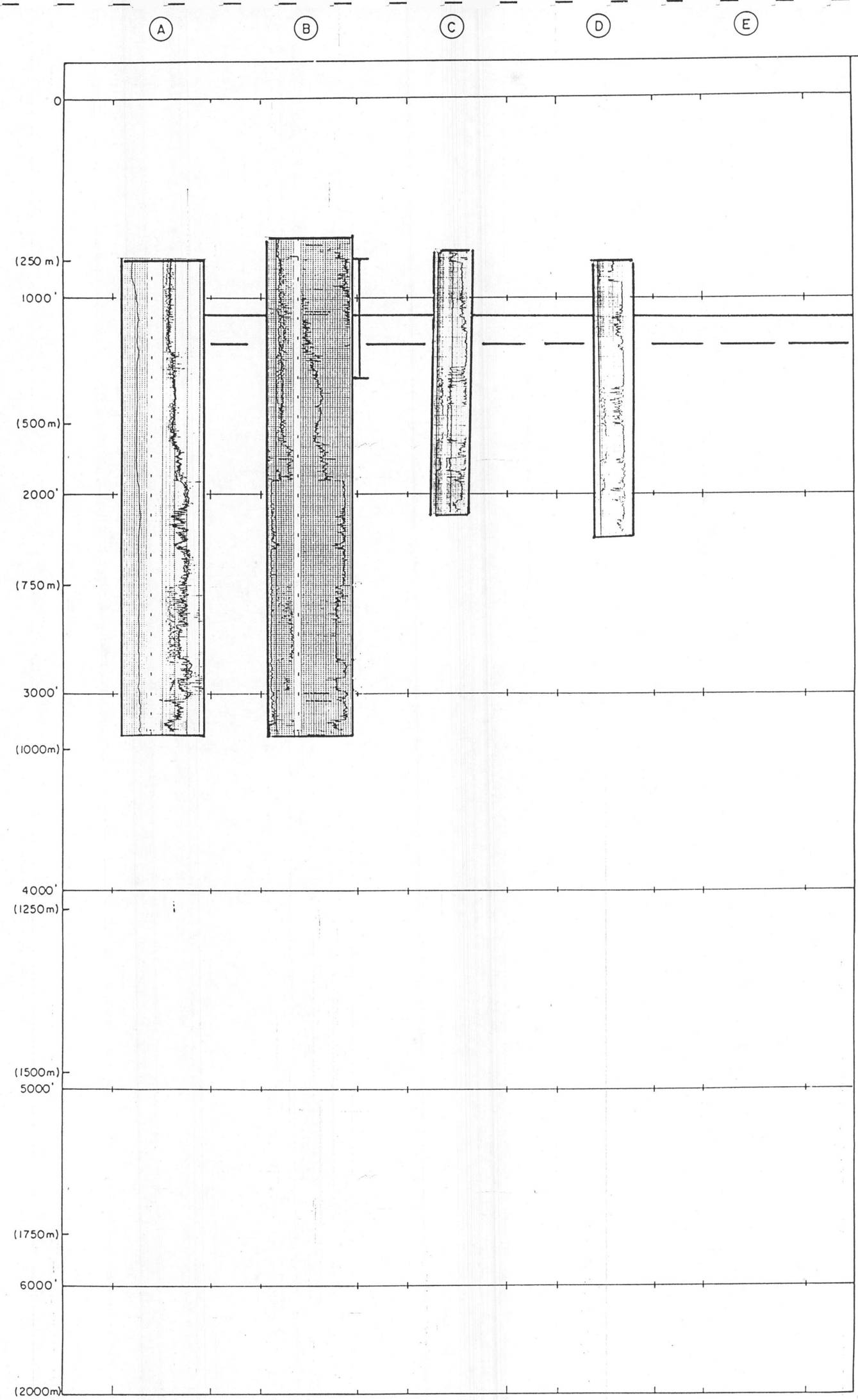
HARDY ASSOCIATES (1978) LTD.
CONSULTING ENGINEERING & PROFESSIONAL SERVICES

PERMAFROST / GAS HYDRATE STUDY
NORTHWEST TERRITORIES - YUKON

BERRY ISLAND A-42

CGI0136

FIGURE 187



LOGS (LEFT TO RIGHT)

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

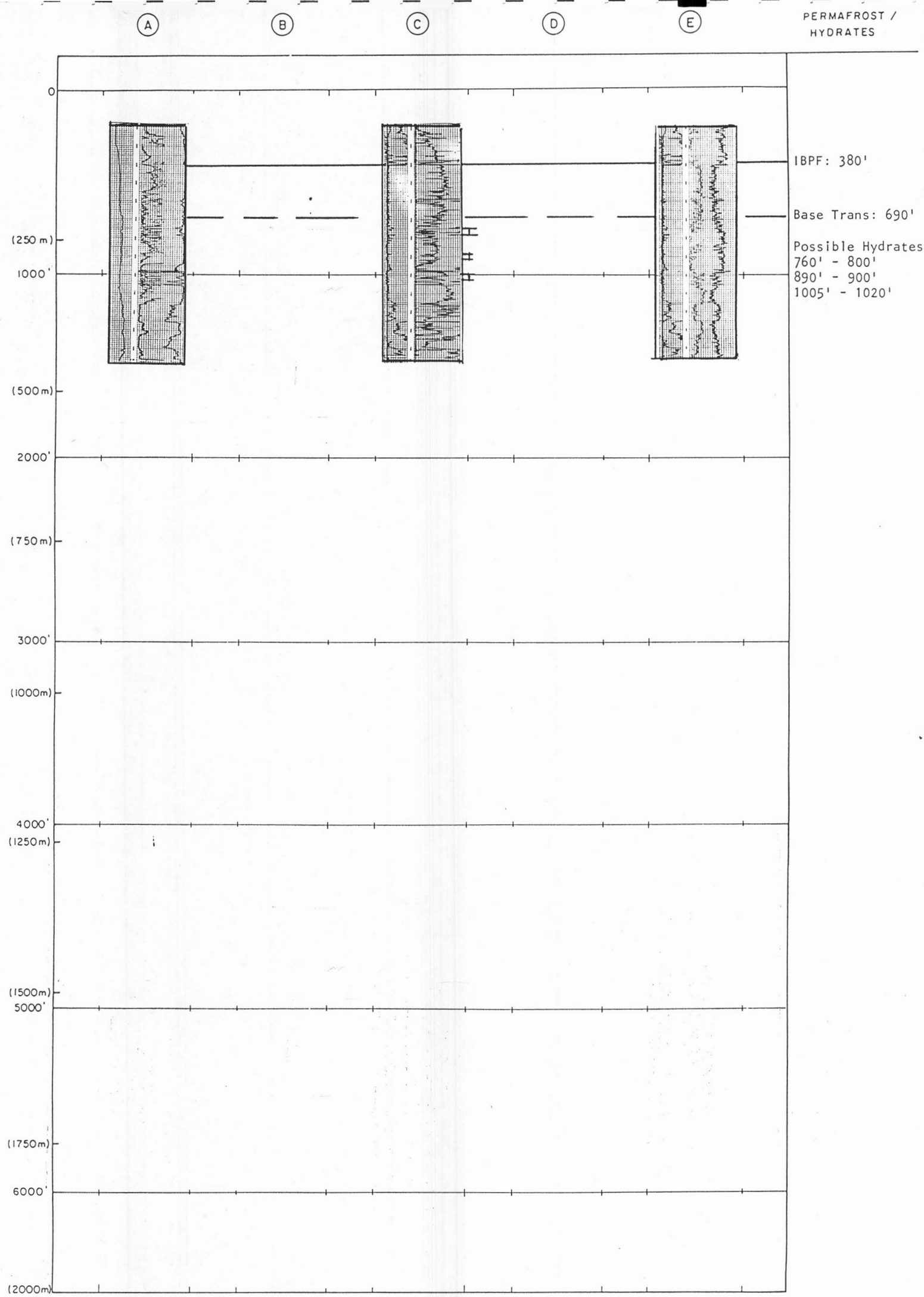
HARDY ASSOCIATES (1978) LTD.
CONSULTING ENGINEERING & PROFESSIONAL SERVICES

PERMAFROST / GAS HYDRATE STUDY
NORTHWEST TERRITORIES - YUKON

HORNELL LAKE G-24

CGI0136

FIGURE 188



LOGS (LEFT TO RIGHT)

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

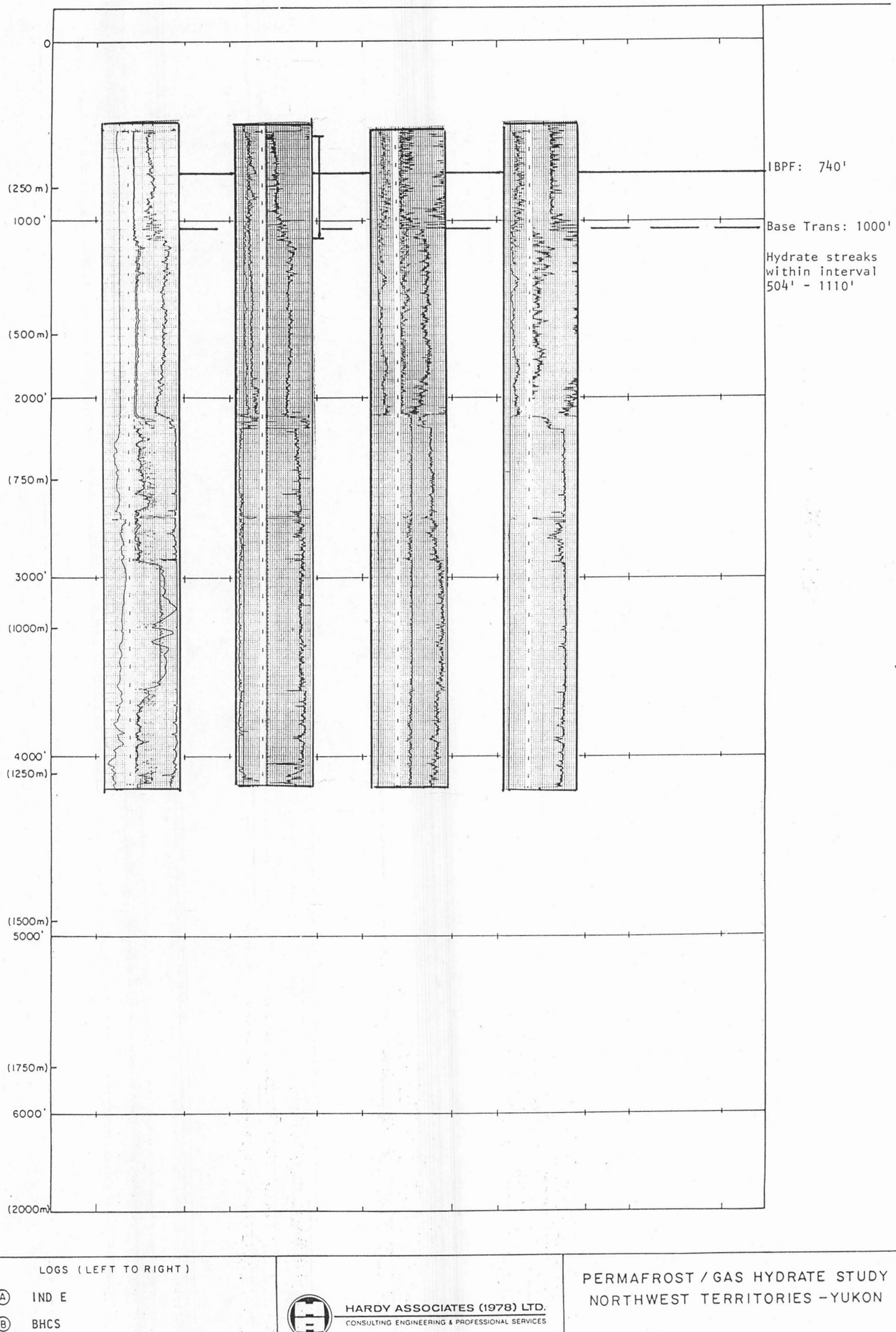
HARDY ASSOCIATES (1978) LTD.
CONSULTING ENGINEERING & PROFESSIONAL SERVICES

PERMAFROST / GAS HYDRATE STUDY
NORTHWEST TERRITORIES – YUKON

LEVIS D-76

CGI0136

FIGURE 189



LOGS (LEFT TO RIGHT)

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

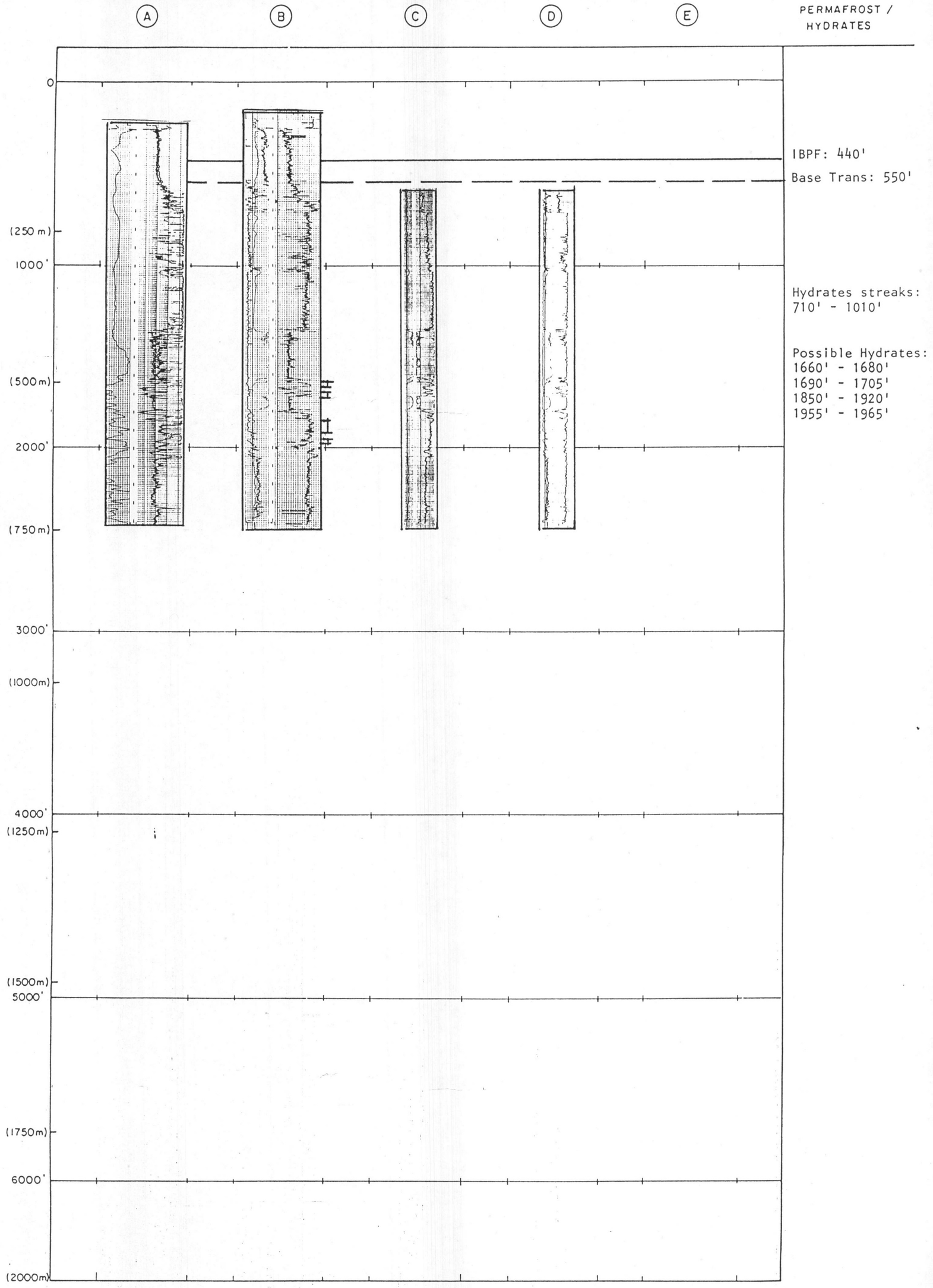
HARDY ASSOCIATES (1978) LTD.
CONSULTING ENGINEERING & PROFESSIONAL SERVICES

PERMAFROST / GAS HYDRATE STUDY
NORTHWEST TERRITORIES – YUKON

EBBUTT J-05

CGI0136

FIGURE 190



LOGS (LEFT TO RIGHT)

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

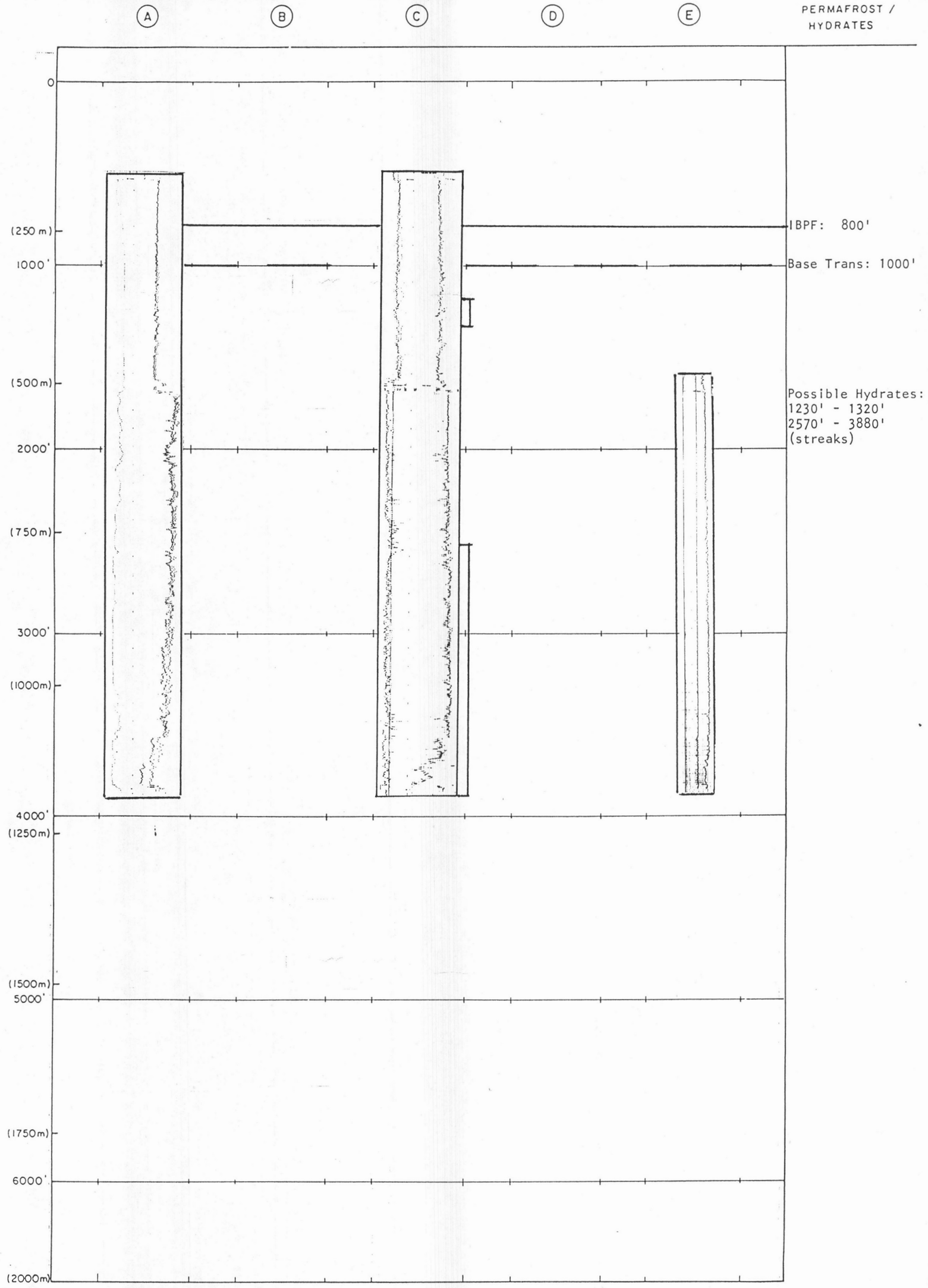
HARDY ASSOCIATES (1978) LTD.
CONSULTING ENGINEERING & PROFESSIONAL SERVICES

PERMAFROST / GAS HYDRATE STUDY
NORTHWEST TERRITORIES – YUKON

HARRIS RIVER A - 31

CG10136

FIGURE 191



LOGS (LEFT TO RIGHT)

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

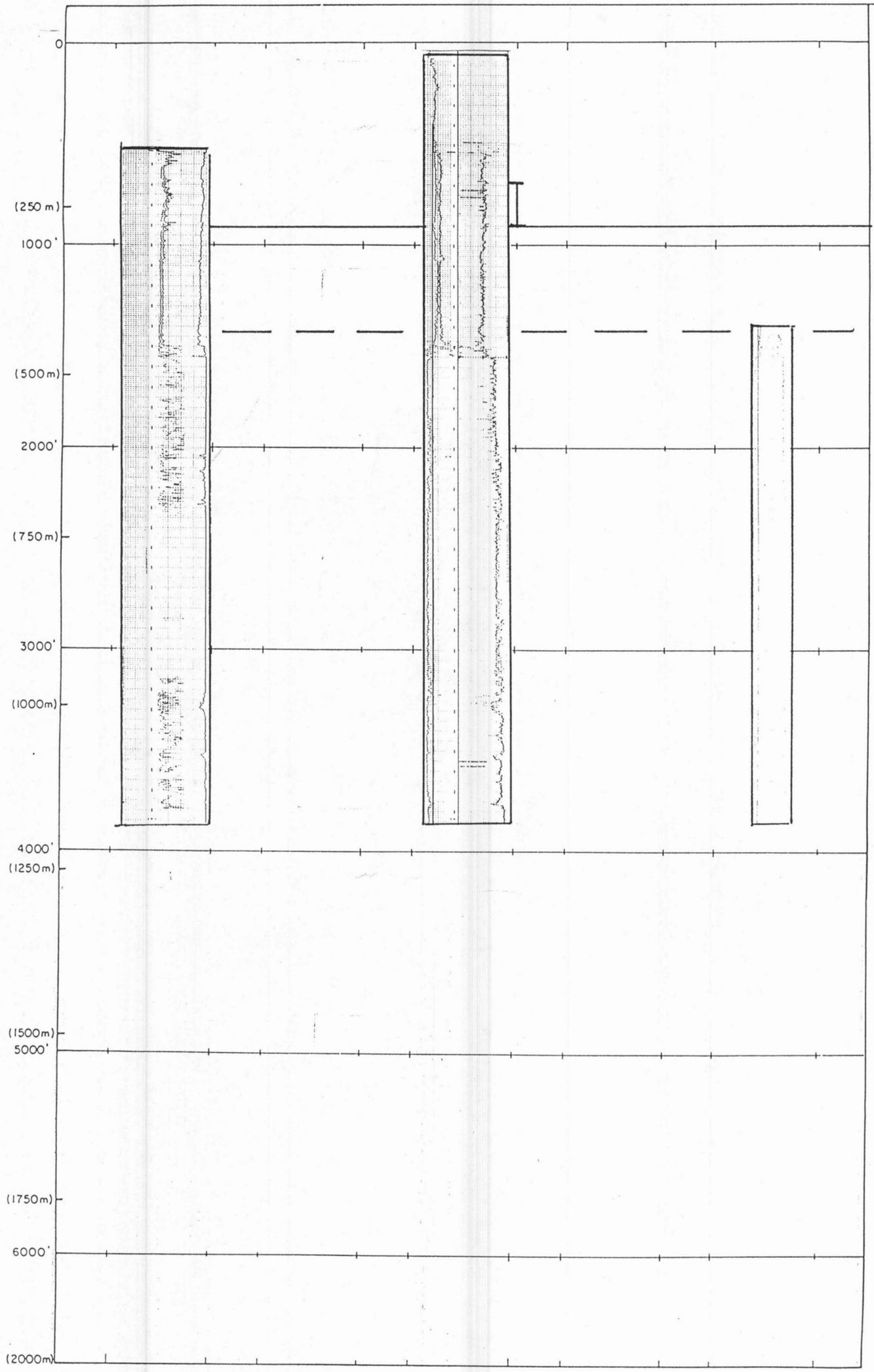
HARDY ASSOCIATES (1978) LTD.
CONSULTING ENGINEERING & PROFESSIONAL SERVICES

PERMAFROST / GAS HYDRATE STUDY
NORTHWEST TERRITORIES - YUKON

BERRY F-71

CG10136

FIGURE 192



LOGS (LEFT TO RIGHT)

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

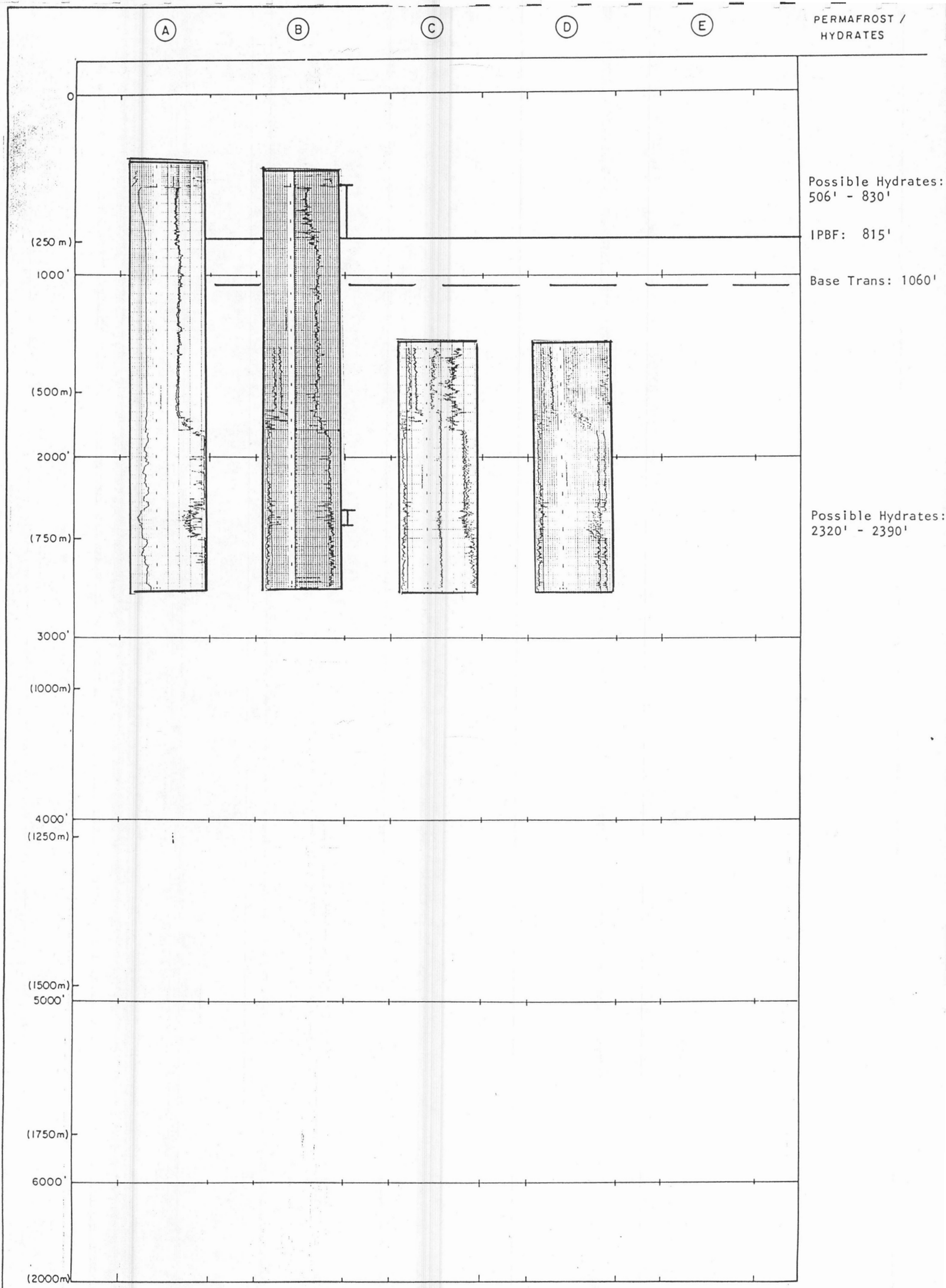
HARDY ASSOCIATES (1978) LTD.
CONSULTING ENGINEERING & PROFESSIONAL SERVICES

PERMAFROST / GAS HYDRATE STUDY
NORTHWEST TERRITORIES - YUKON

HIGHLAND LAKE K-42

CG10136

FIGURE 193



LOGS (LEFT TO RIGHT)

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

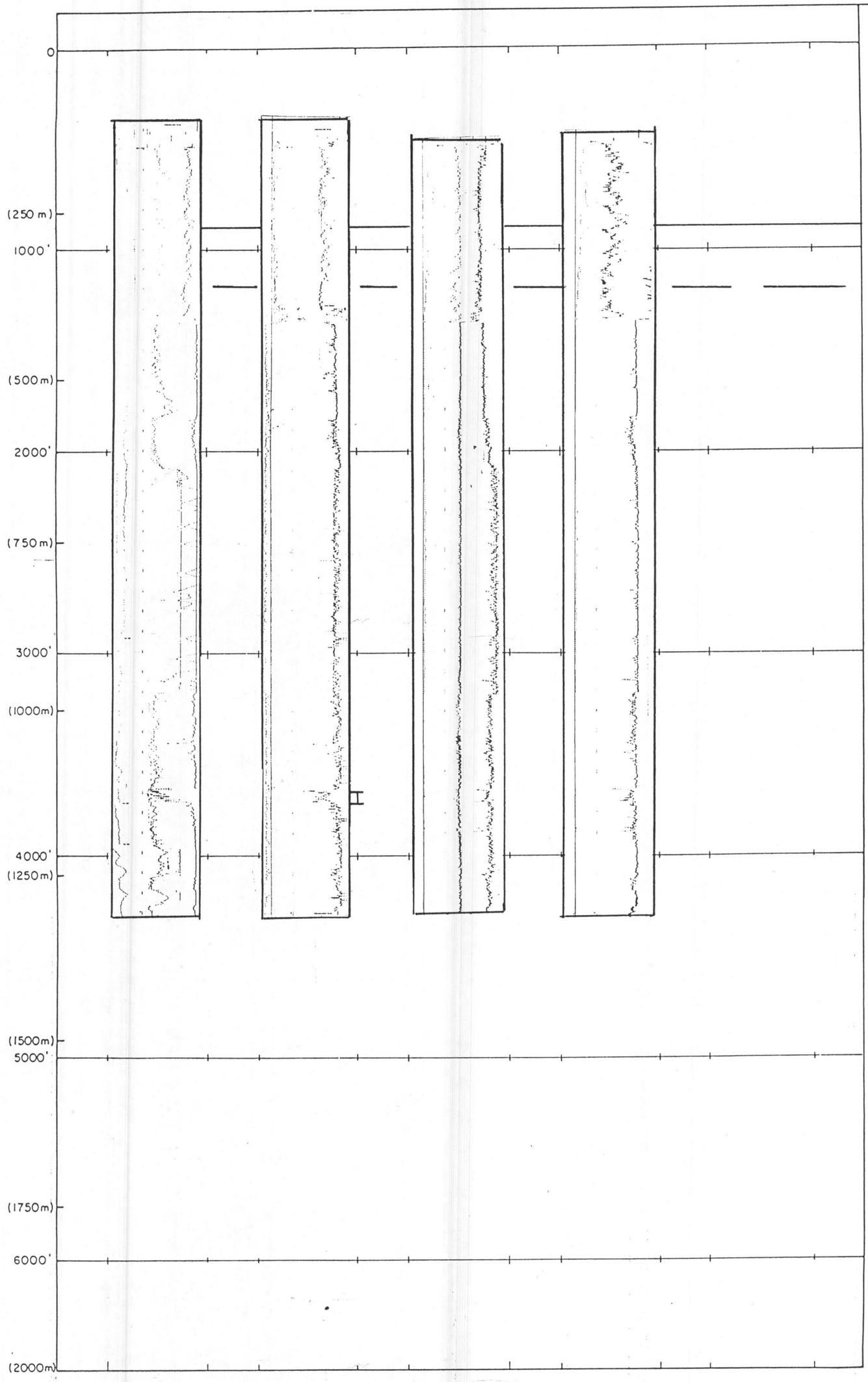
HARDY ASSOCIATES (1978) LTD.
CONSULTING ENGINEERING & PROFESSIONAL SERVICES

PERMAFROST / GAS HYDRATE STUDY
NORTHWEST TERRITORIES - YUKON

HIGHLAND LAKE I-23

CG10136

FIGURE 194



LOGS (LEFT TO RIGHT)

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

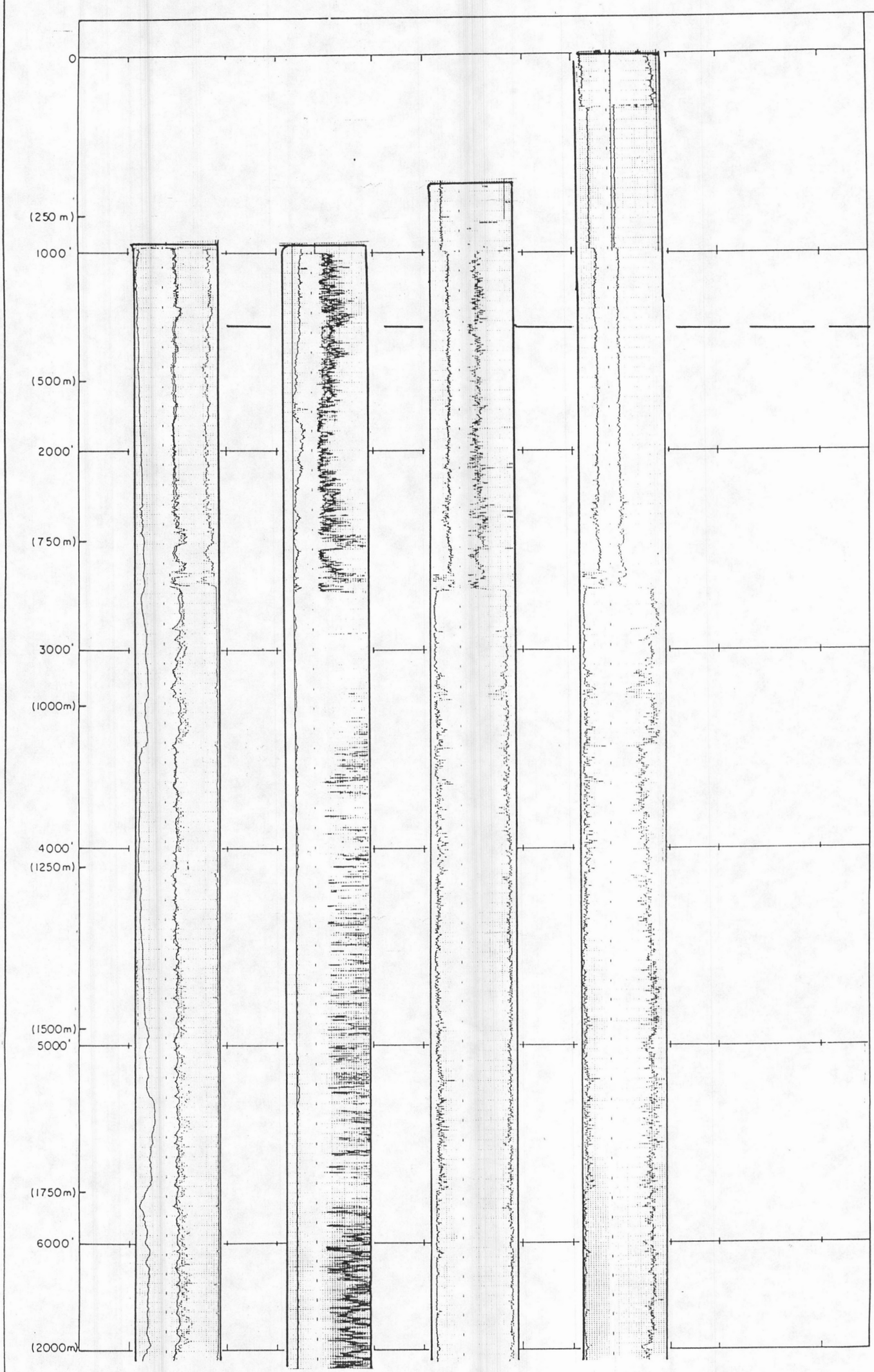
HARDY ASSOCIATES (1978) LTD.
CONSULTING ENGINEERING & PROFESSIONAL SERVICES

PERMAFROST / GAS HYDRATE STUDY
NORTHWEST TERRITORIES - YUKON

WILLOW LAKE G-47

CG10136

FIGURE 195



LOGS (LEFT TO RIGHT)

- (A) IND E
- (B) ML-C
- (C) S-GR-C
- (D) GRN
- (E)

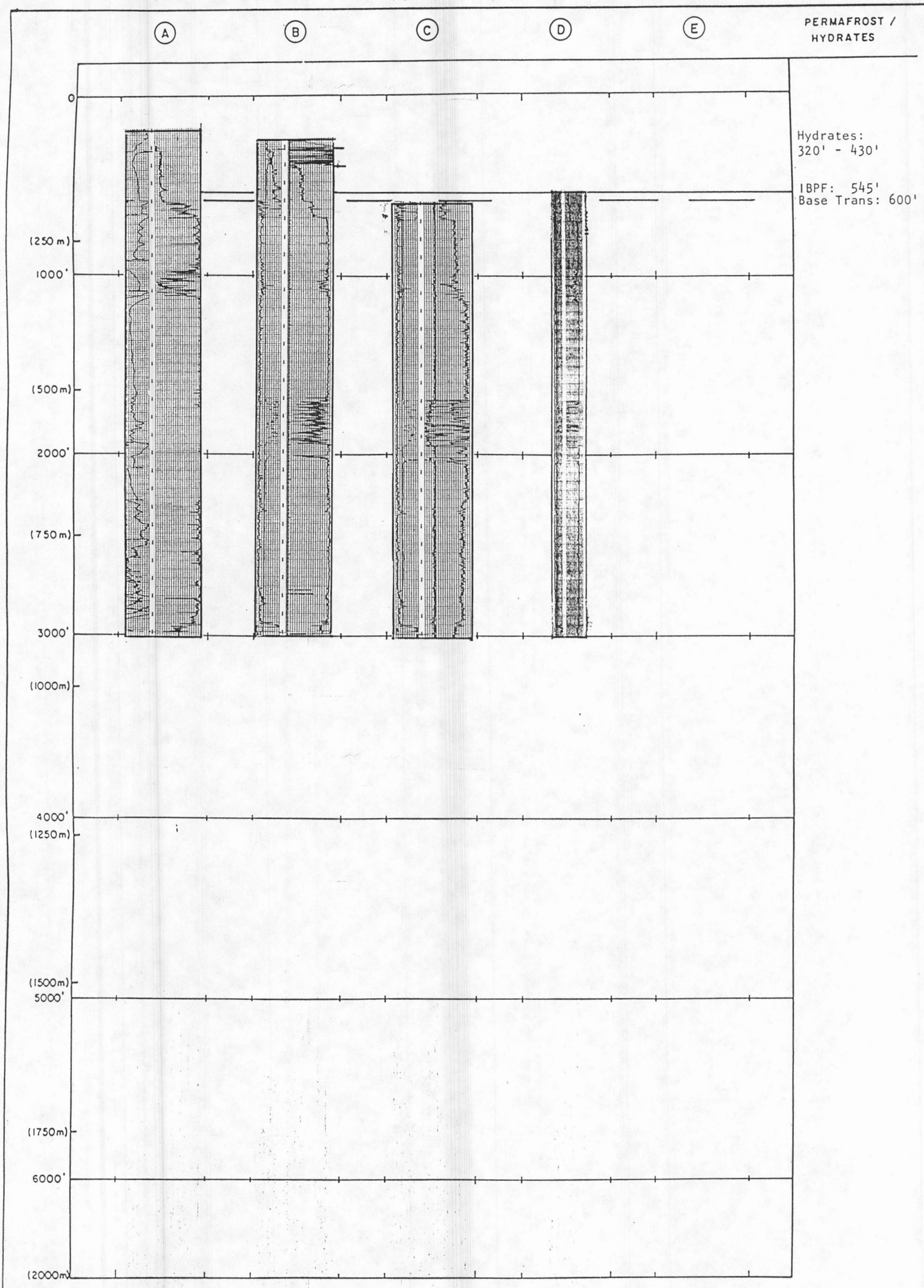
HARDY ASSOCIATES (1978) LTD.
CONSULTING ENGINEERING & PROFESSIONAL SERVICES

PERMAFROST / GAS HYDRATE STUDY
NORTHWEST TERRITORIES - YUKON

ROOT RIVER I-60

CGI0136

FIGURE 196



LOGS (LEFT TO RIGHT)

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

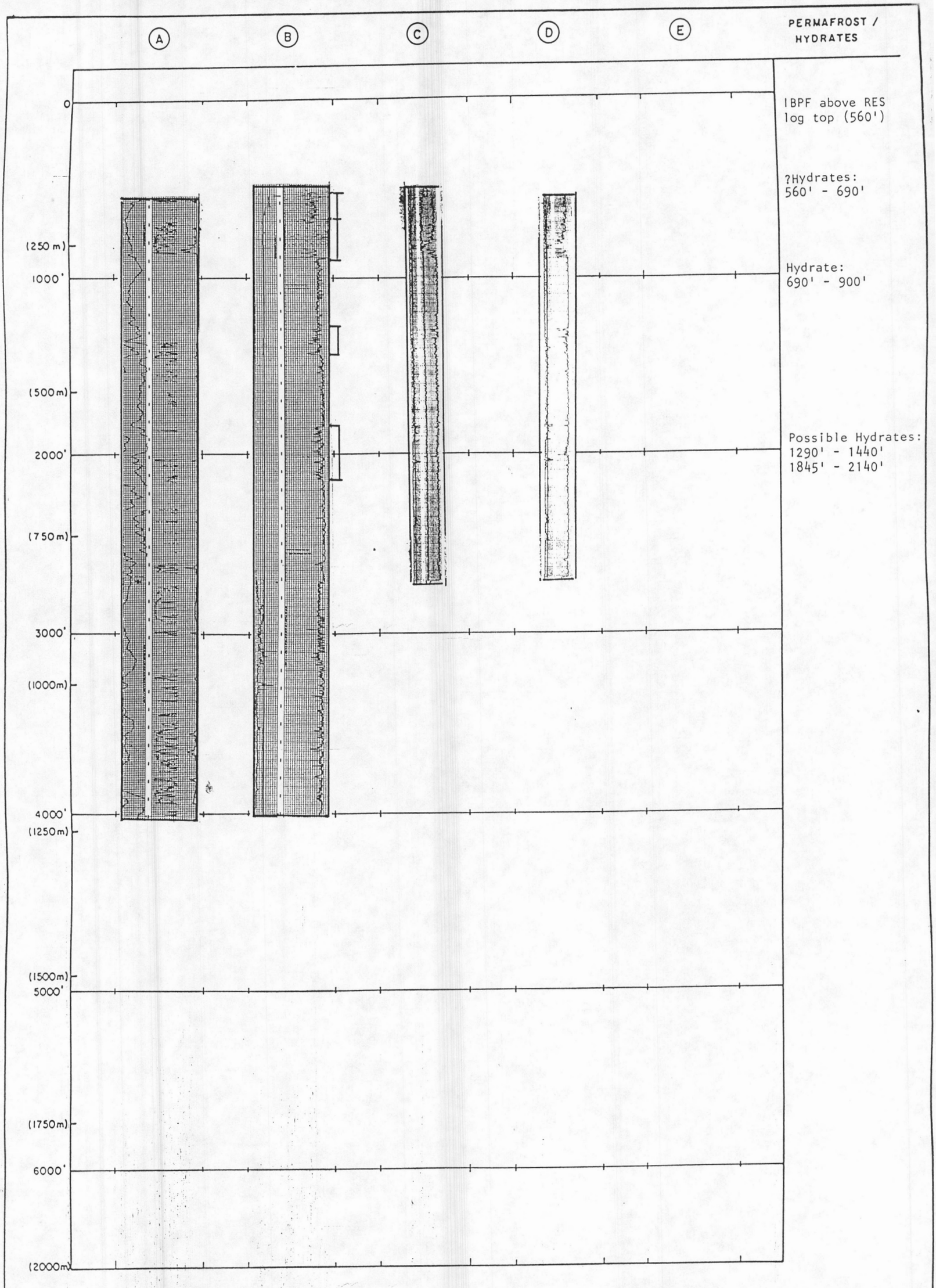
HARDY ASSOCIATES (1978) LTD.
CONSULTING ENGINEERING & PROFESSIONAL SERVICES

PERMAFROST / GAS HYDRATE STUDY
NORTHWEST TERRITORIES - YUKON

WILLOWLAKE RIVER I-71

CGI0136

FIGURE 197



LOGS (LEFT TO RIGHT)

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

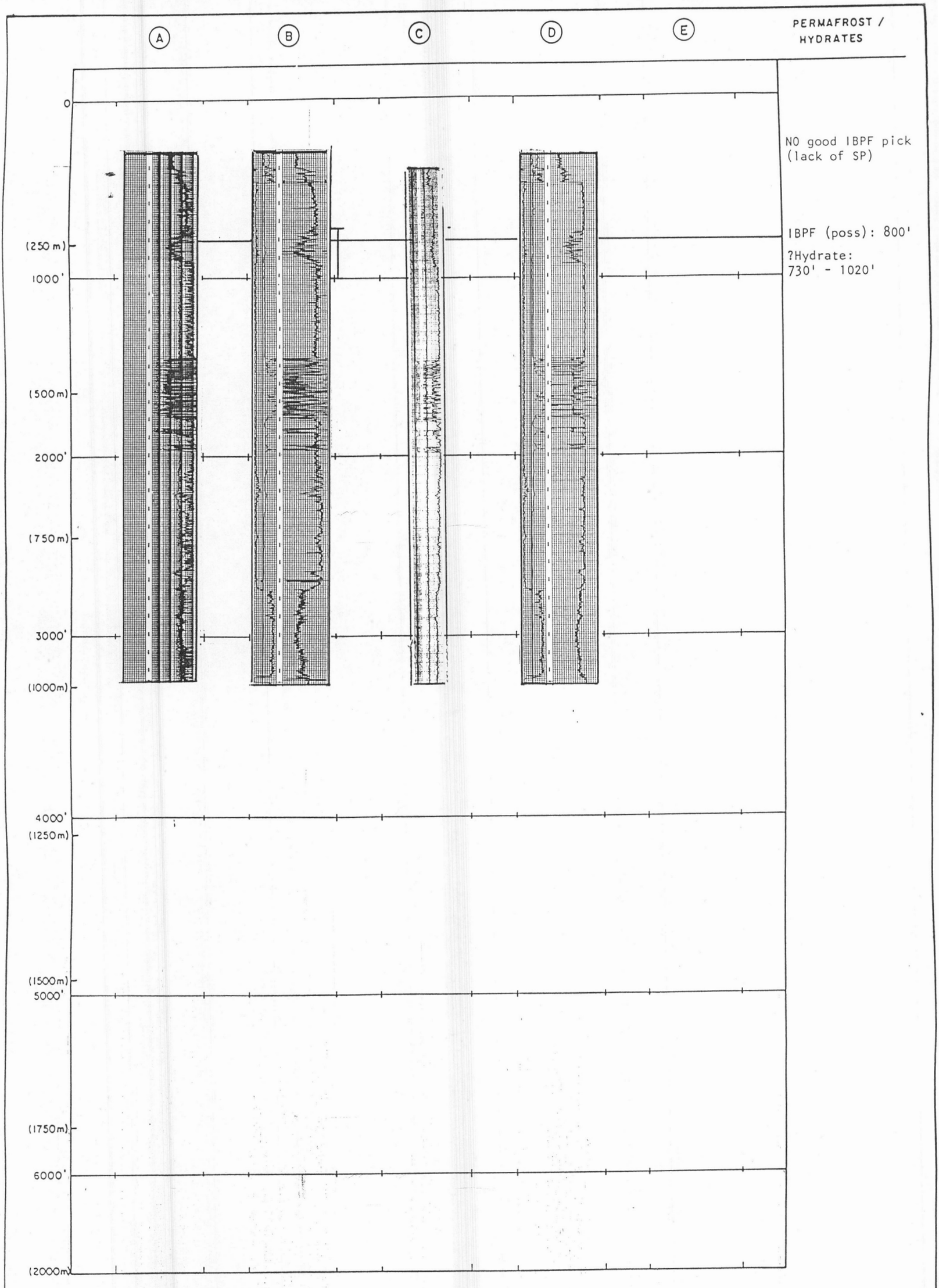
HARDY ASSOCIATES (1978) LTD.
CONSULTING ENGINEERING & PROFESSIONAL SERVICES

PERMAFROST / GAS HYDRATE STUDY
NORTHWEST TERRITORIES – YUKON

WILLOW LAKE A-39

CGI0136

FIGURE 198



LOGS (LEFT TO RIGHT)

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

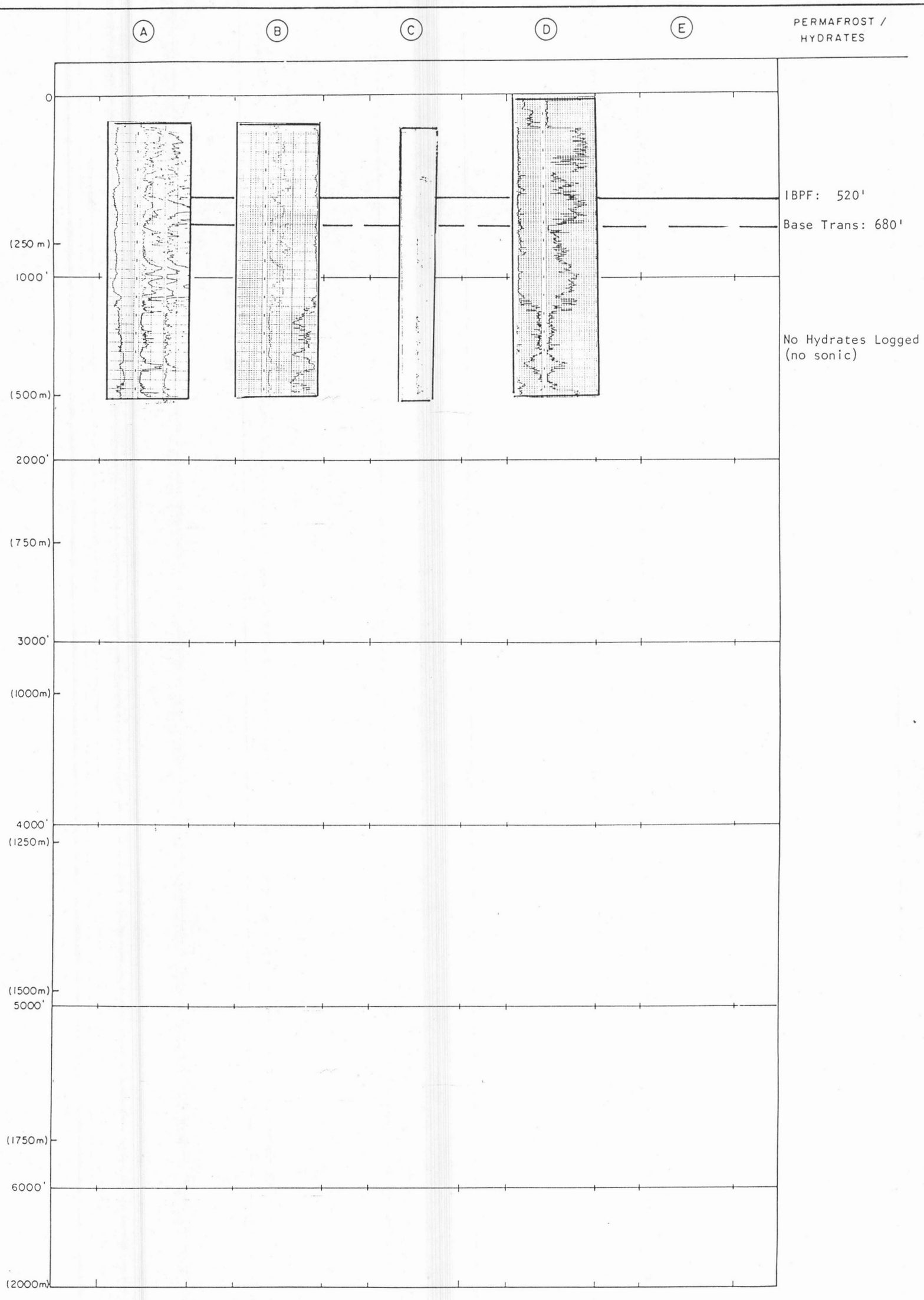
HARDY ASSOCIATES (1978) LTD.
CONSULTING ENGINEERING & PROFESSIONAL SERVICES

PERMAFROST / GAS HYDRATE STUDY
NORTHWEST TERRITORIES – YUKON

WILLOW LAKE H-10

CGI0136

FIGURE 199



LOGS (LEFT TO RIGHT)

- (A) E LOG
- (B) IND E
- (C) ML-C
- (D) GRN
- (E)

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

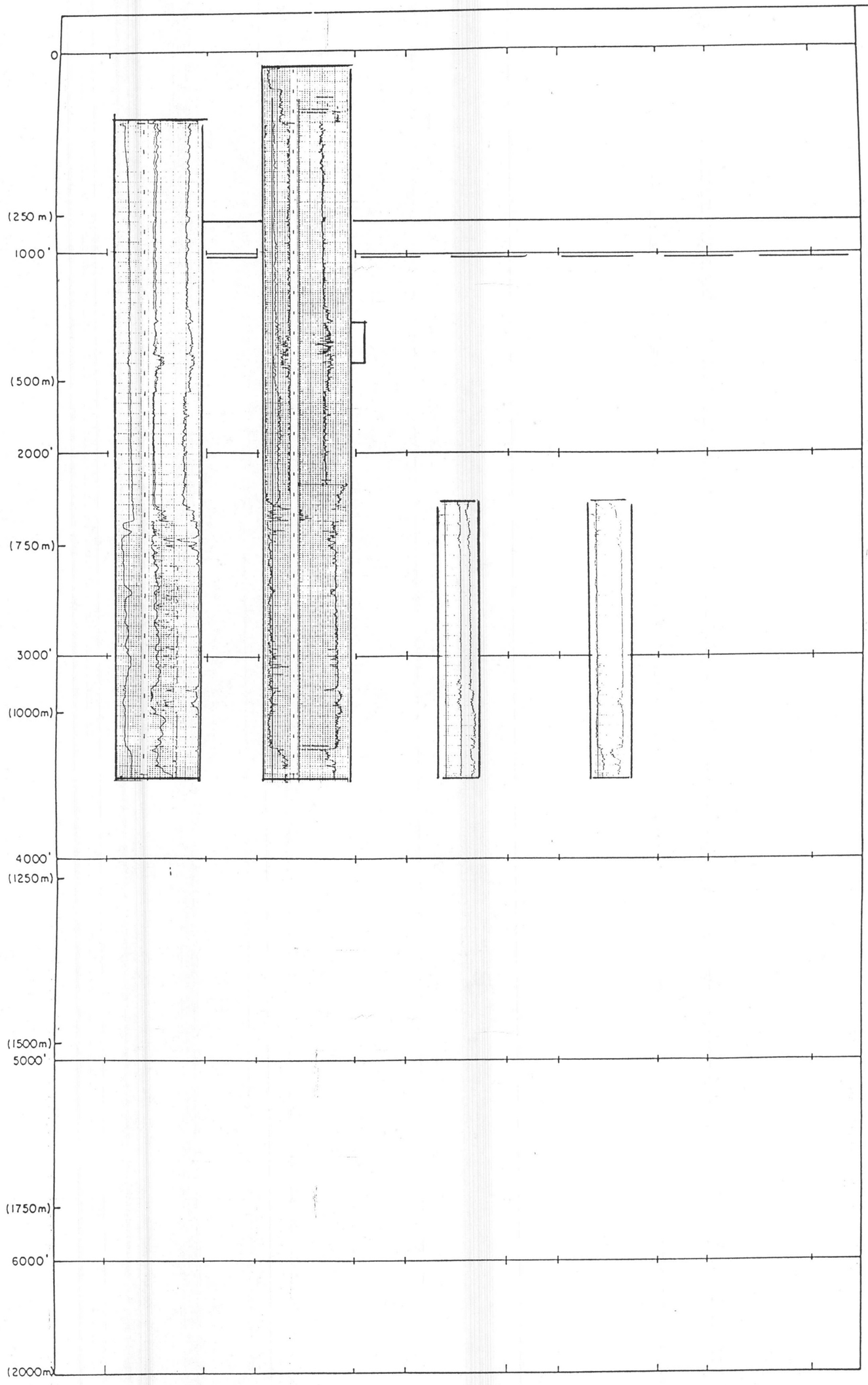
PERMAFROST / GAS HYDRATE STUDY
NORTHWEST TERRITORIES - YUKON

WIND FLOWER G - 77

CGI0136

FIGURE 200

PERMAFROST / HYDRATES



LOGS (LEFT TO RIGHT)

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

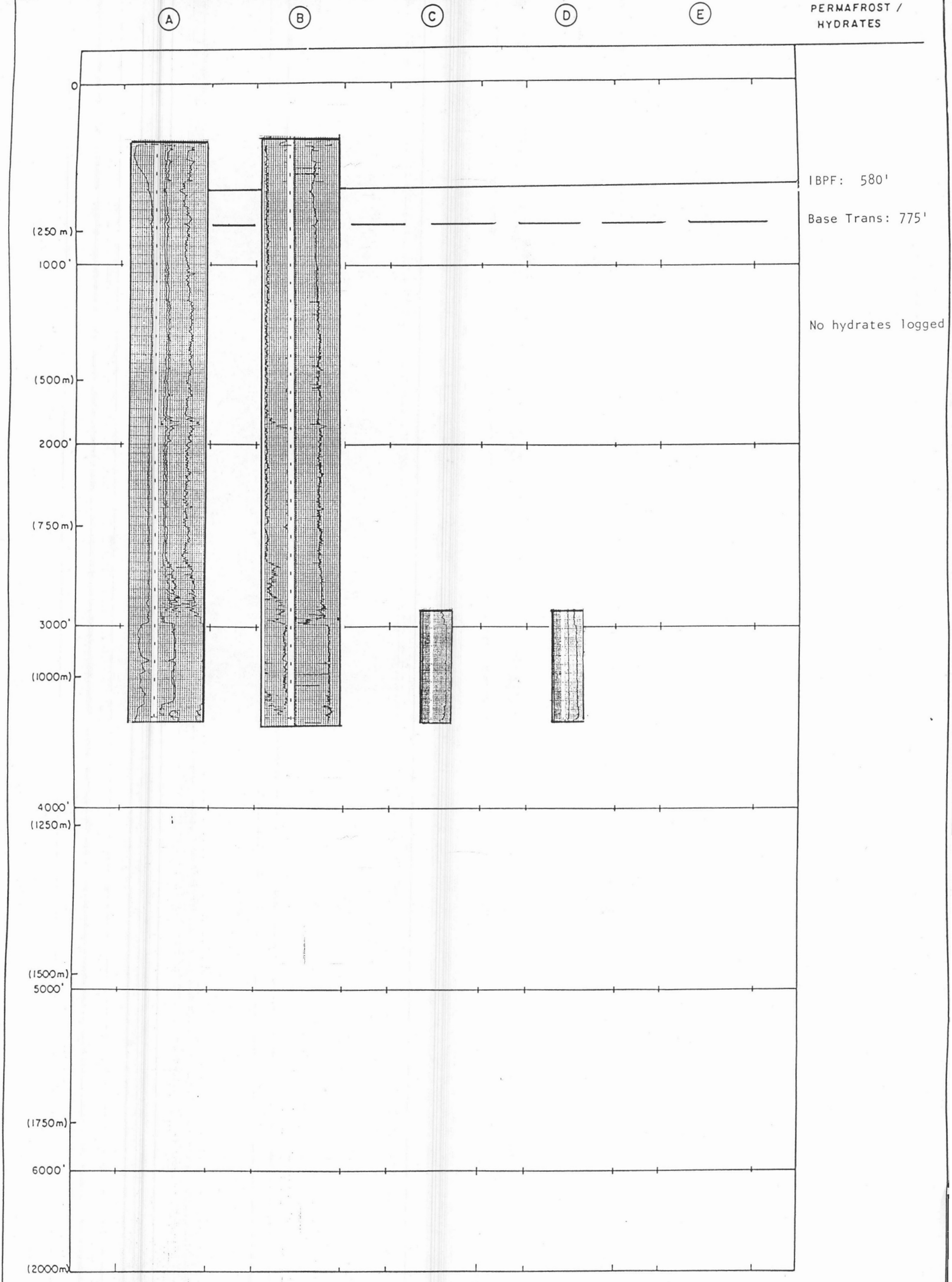
HARDY ASSOCIATES (1978) LTD.
CONSULTING ENGINEERING & PROFESSIONAL SERVICES

PERMAFROST / GAS HYDRATE STUDY
NORTHWEST TERRITORIES – YUKON

BLACKSTONE E - 72

CGI0136

FIGURE 201



LOGS (LEFT TO RIGHT)

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

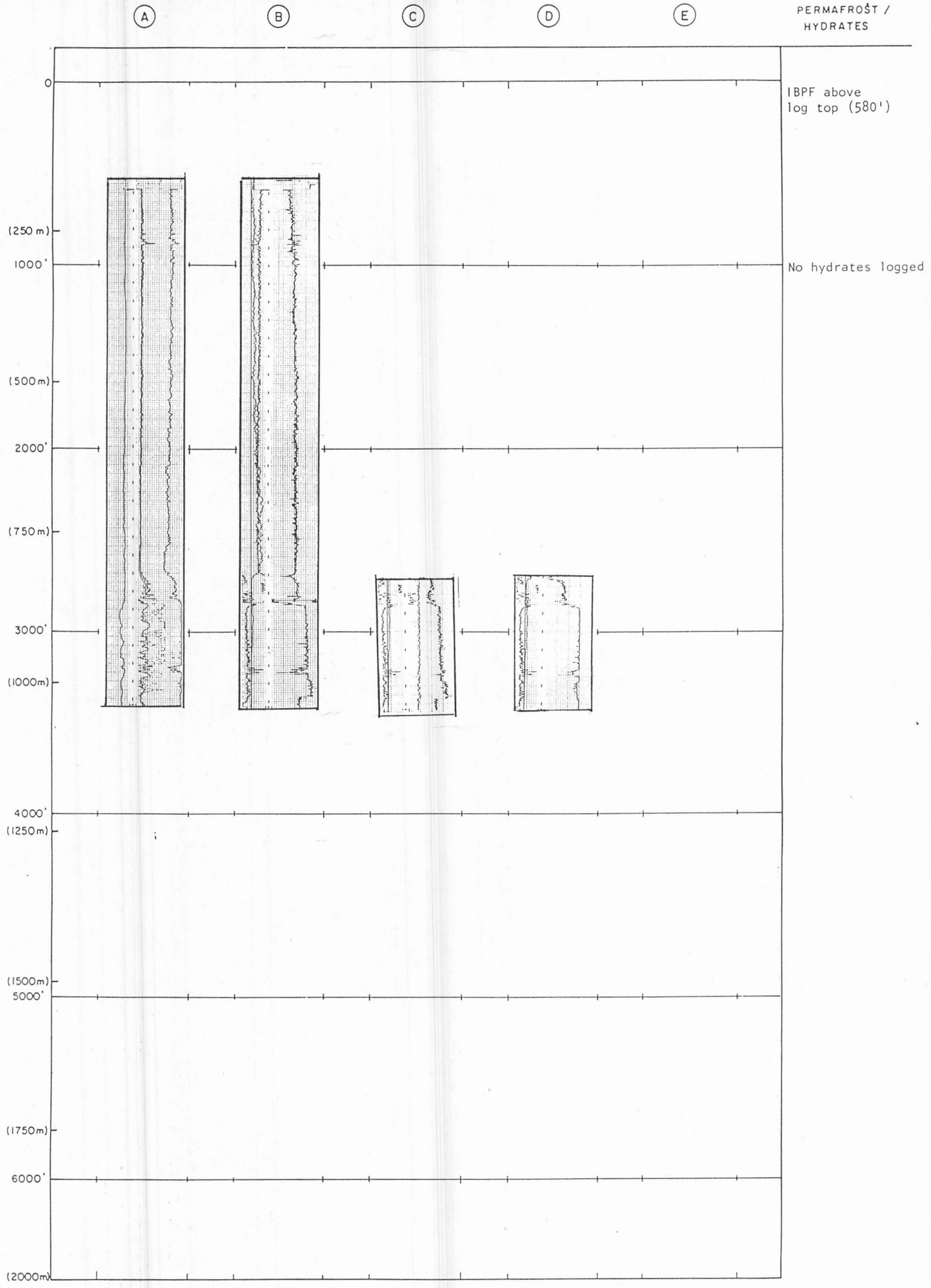
HARDY ASSOCIATES (1978) LTD.
CONSULTING ENGINEERING & PROFESSIONAL SERVICES

PERMAFROST / GAS HYDRATE STUDY
NORTHWEST TERRITORIES – YUKON

GRAINGER RIVER N-42

CGI0136

FIGURE 202



LOGS (LEFT TO RIGHT)

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

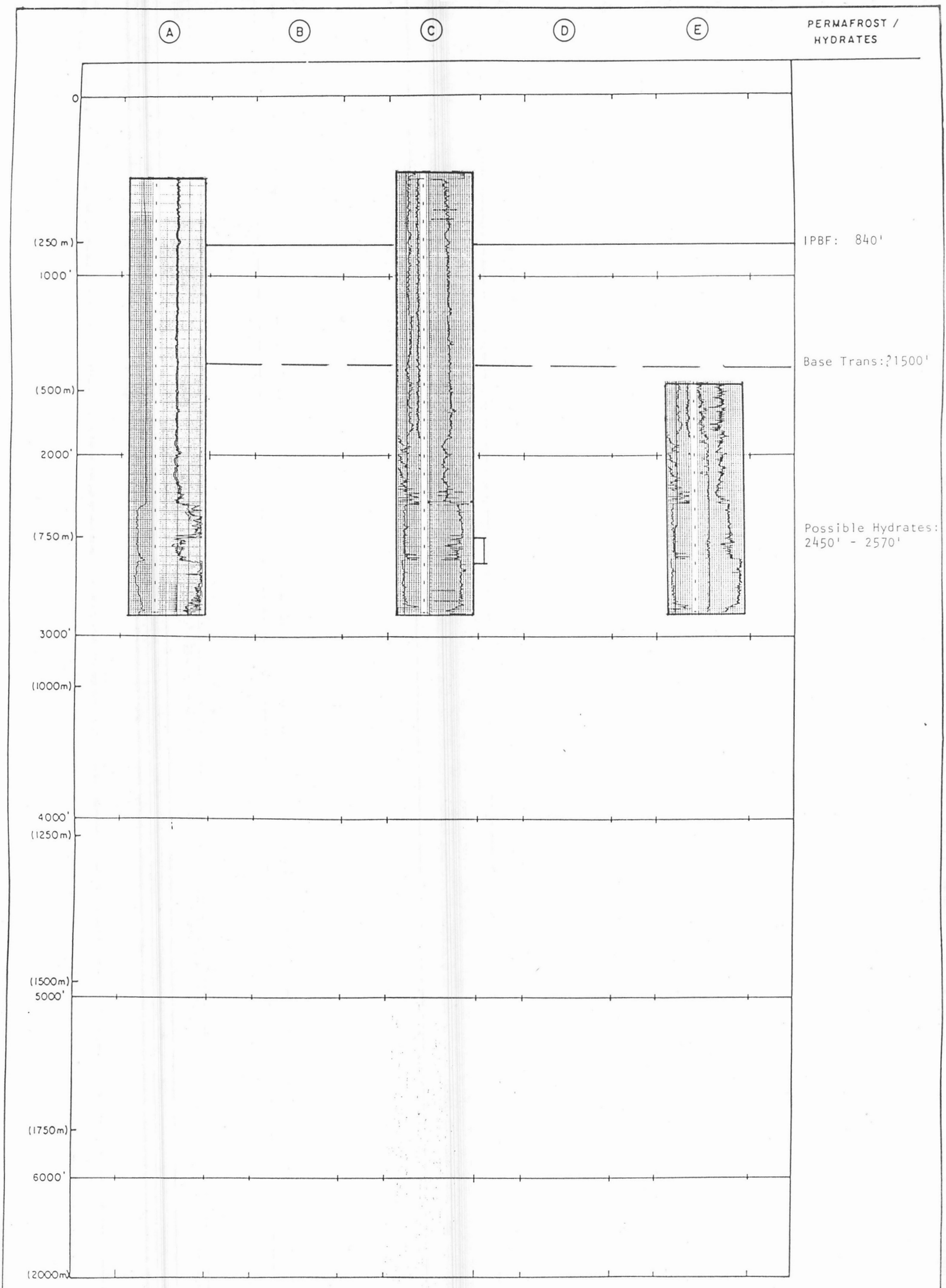
HARDY ASSOCIATES (1978) LTD.
CONSULTING ENGINEERING & PROFESSIONAL SERVICES

PERMAFROST / GAS HYDRATE STUDY
NORTHWEST TERRITORIES – YUKON

SIMPSON D-25

CG10136

FIGURE 203



LOGS (LEFT TO RIGHT)

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

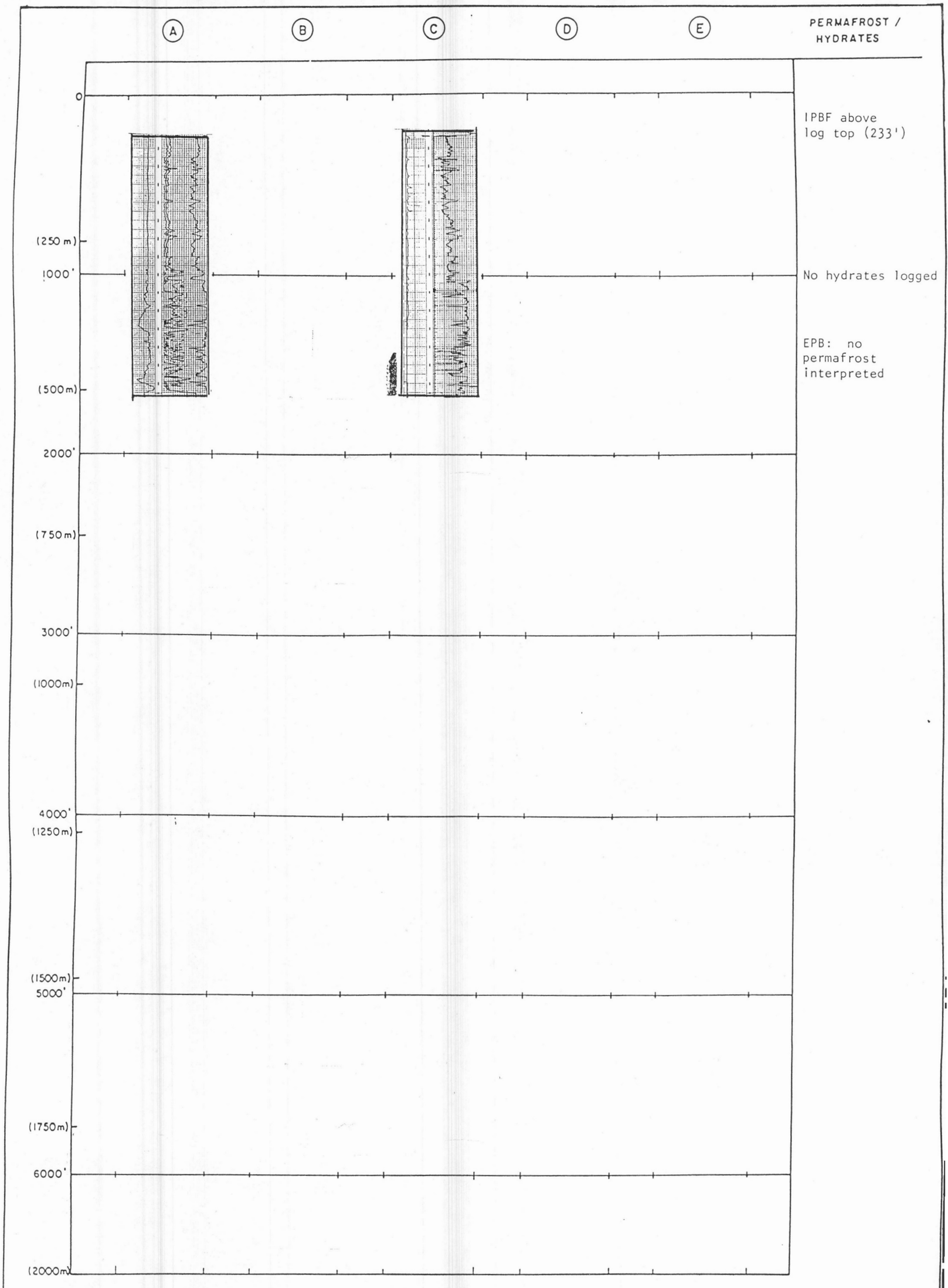
HARDY ASSOCIATES (1978) LTD.
CONSULTING ENGINEERING & PROFESSIONAL SERVICES

PERMAFROST / GAS HYDRATE STUDY
NORTHWEST TERRITORIES – YUKON

JEAN MARIE N - 73

CGI0136

FIGURE 204



LOGS (LEFT TO RIGHT)

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

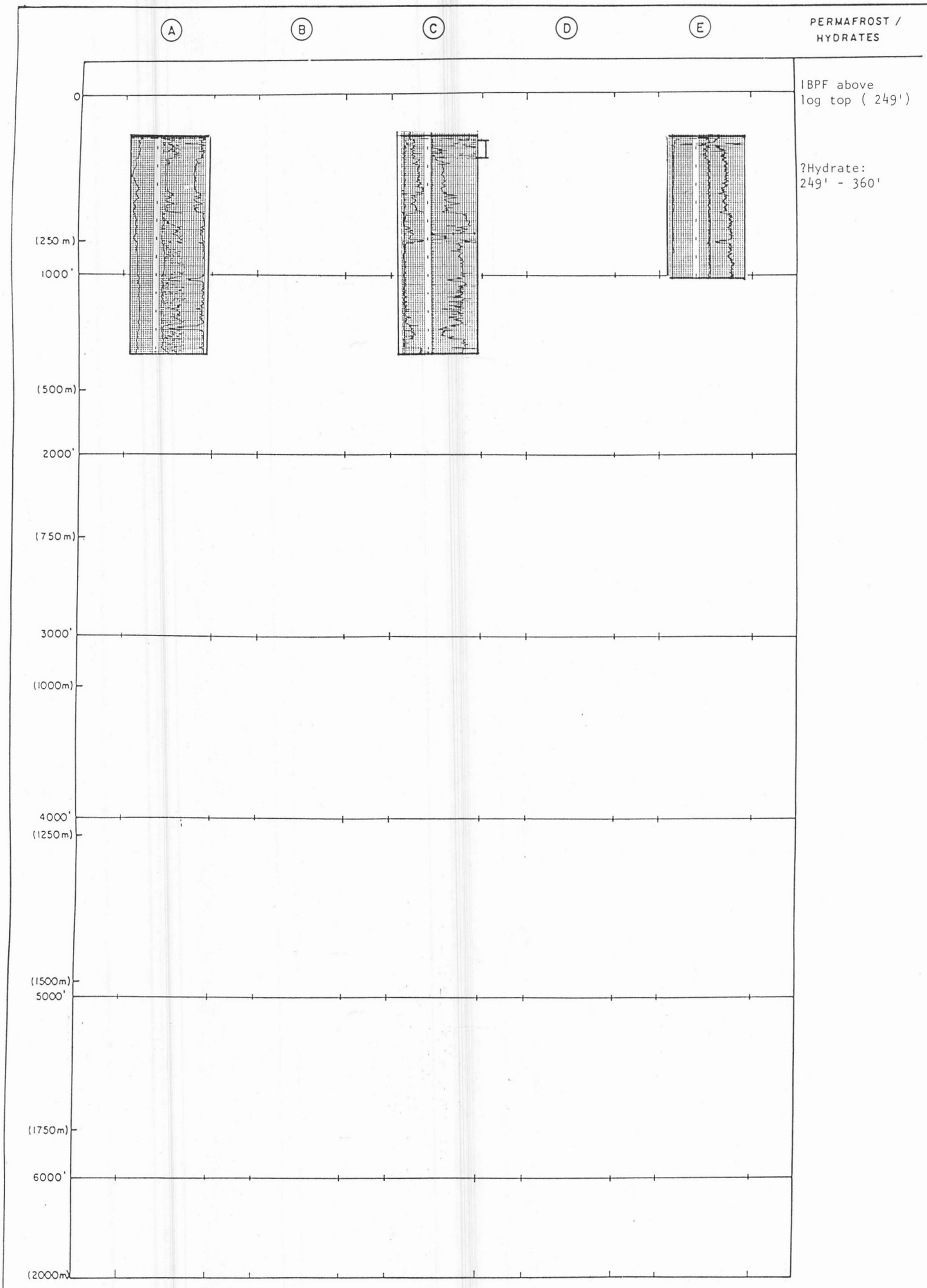
HARDY ASSOCIATES (1978) LTD.
CONSULTING ENGINEERING & PROFESSIONAL SERVICES

PERMAFROST / GAS HYDRATE STUDY
NORTHWEST TERRITORIES – YUKON

PROVIDENCE A-47

CGI0136

FIGURE 205



LOGS (LEFT TO RIGHT)

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

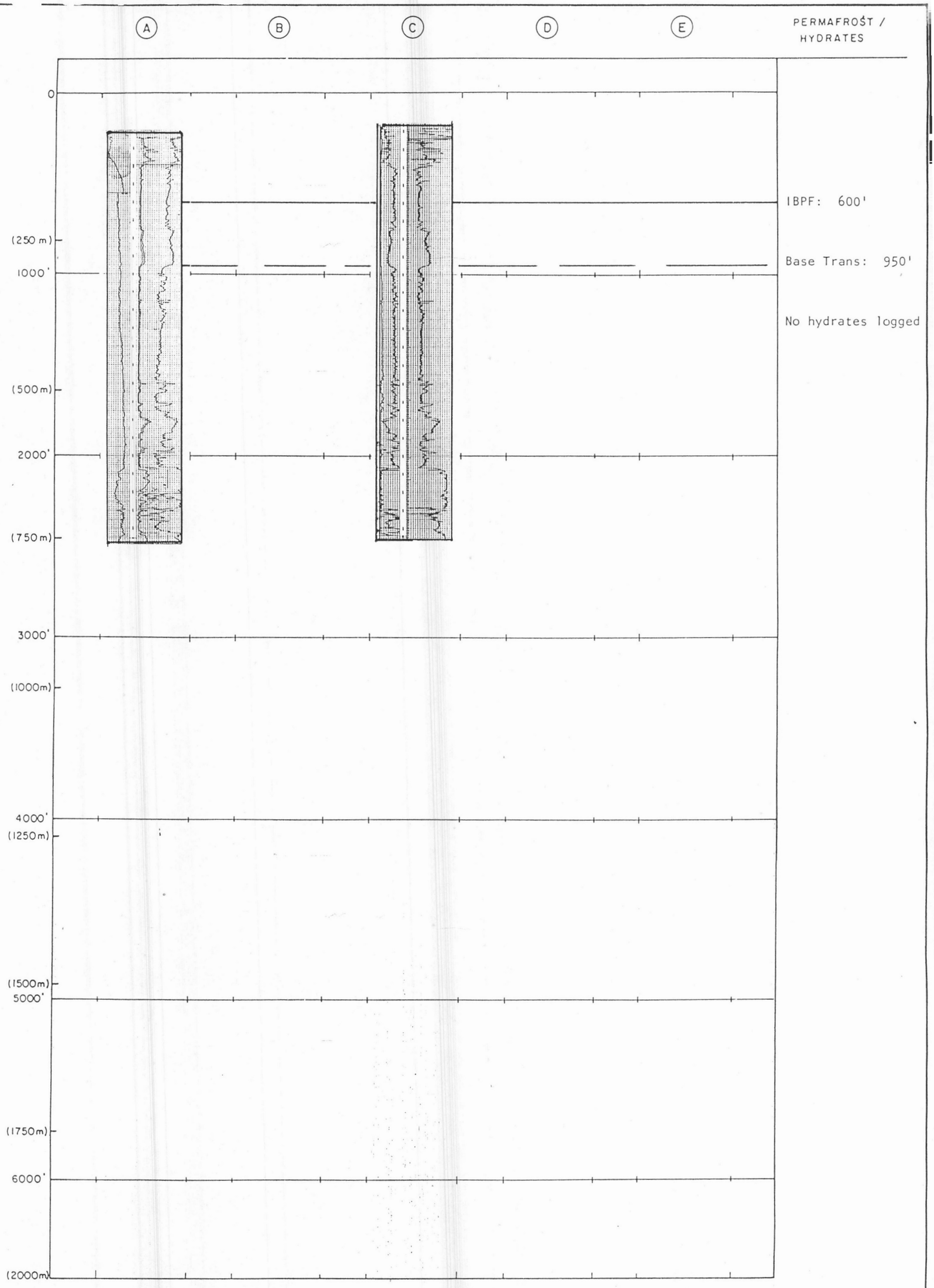
HARDY ASSOCIATES (1978) LTD.
CONSULTING ENGINEERING & PROFESSIONAL SERVICES

PERMAFROST / GAS HYDRATE STUDY
NORTHWEST TERRITORIES – YUKON

MILLS LAKE P-52

CGI0136

FIGURE 206



LOGS (LEFT TO RIGHT)

(A) IND E

(B)

(C) BHCS

(D)

(E)

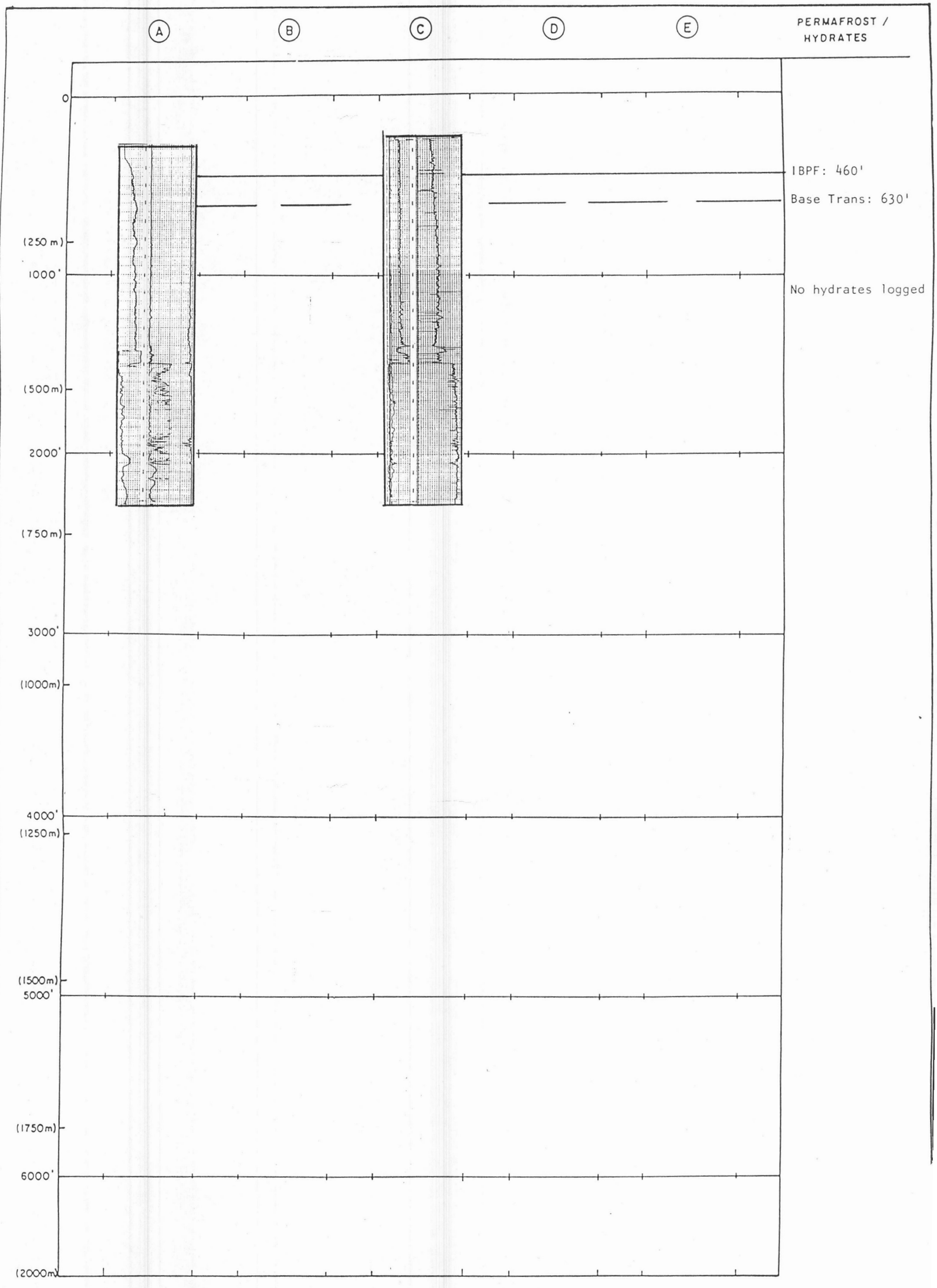
HARDY ASSOCIATES (1978) LTD.
CONSULTING ENGINEERING & PROFESSIONAL SERVICES

PERMAFROST / GAS HYDRATE STUDY
NORTHWEST TERRITORIES - YUKON

MILLS LAKE C-03

CGI0136

FIGURE 207



LOGS (LEFT TO RIGHT)

Ⓐ IND E

Ⓑ

Ⓒ BHCS

Ⓓ

Ⓔ

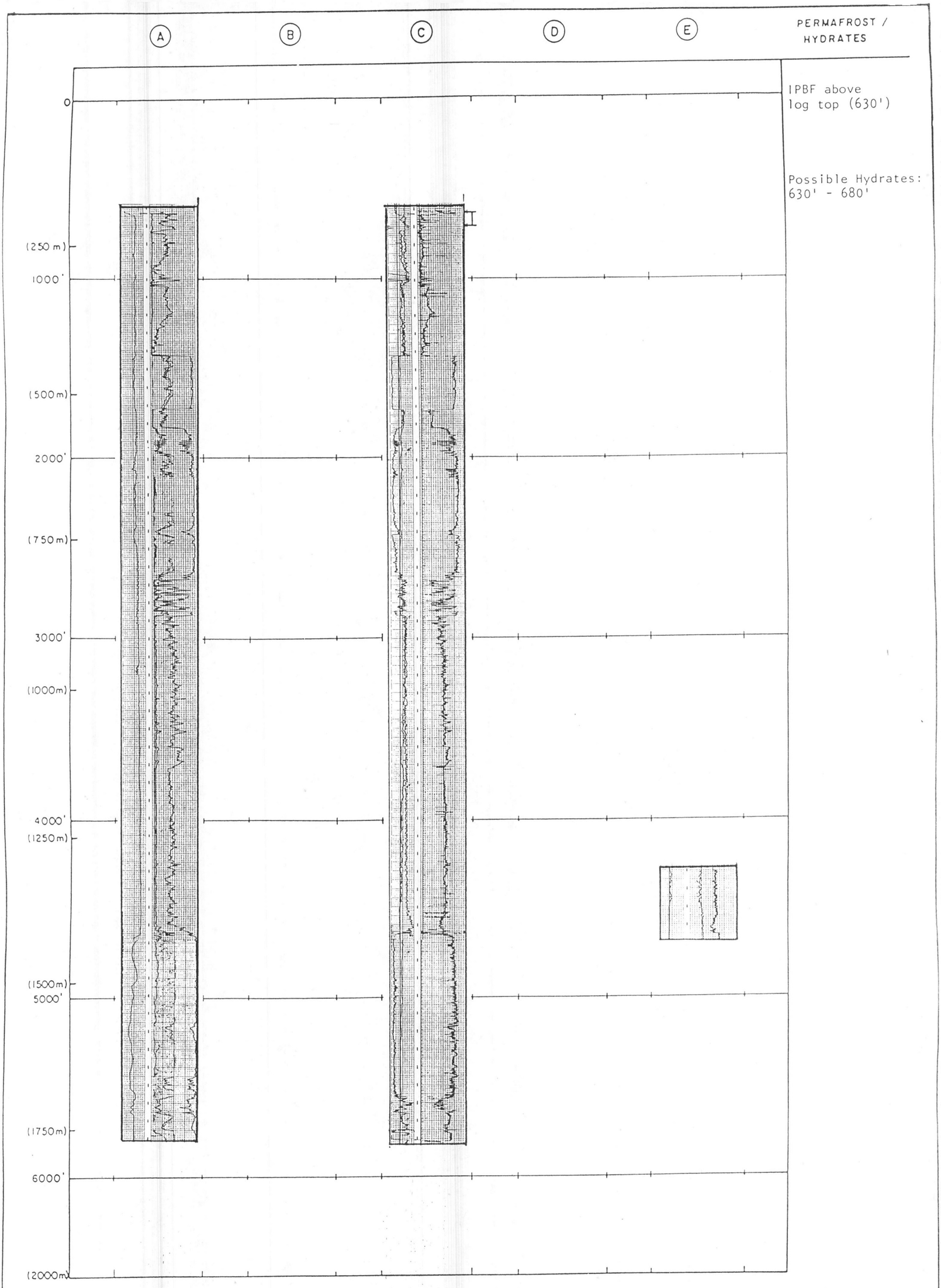
HARDY ASSOCIATES (1978) LTD.
CONSULTING ENGINEERING & PROFESSIONAL SERVICES

PERMAFROST / GAS HYDRATE STUDY
NORTHWEST TERRITORIES – YUKON

TROUT RIVER D-66

CG10136

FIGURE 208



LOGS (LEFT TO RIGHT)

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

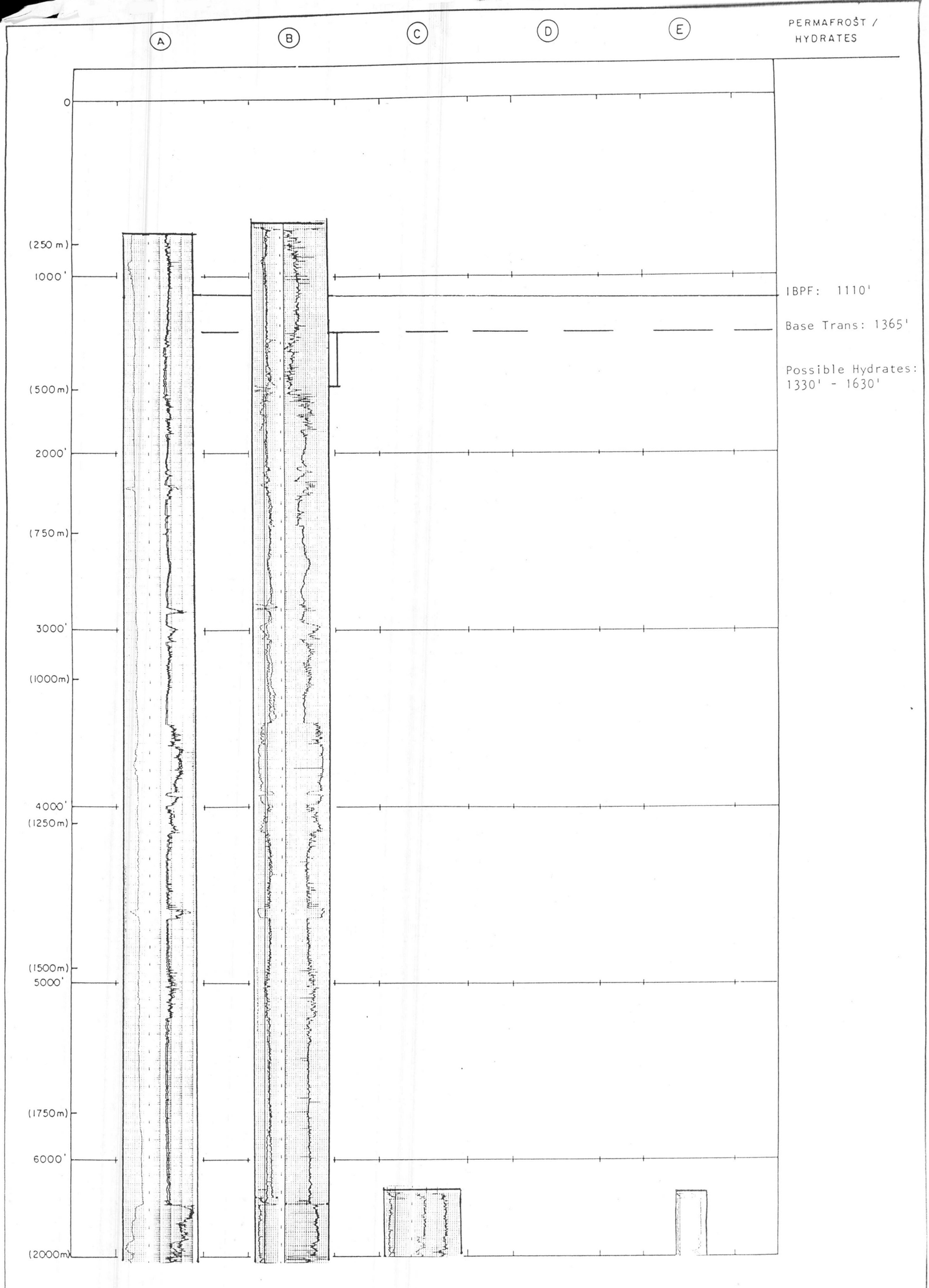
HARDY ASSOCIATES (1978) LTD.
CONSULTING ENGINEERING & PROFESSIONAL SERVICES

PERMAFROST / GAS HYDRATE STUDY
NORTHWEST TERRITORIES – YUKON

TRAINOR G-07

CG10136

FIGURE 209



LOGS (LEFT TO RIGHT)

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

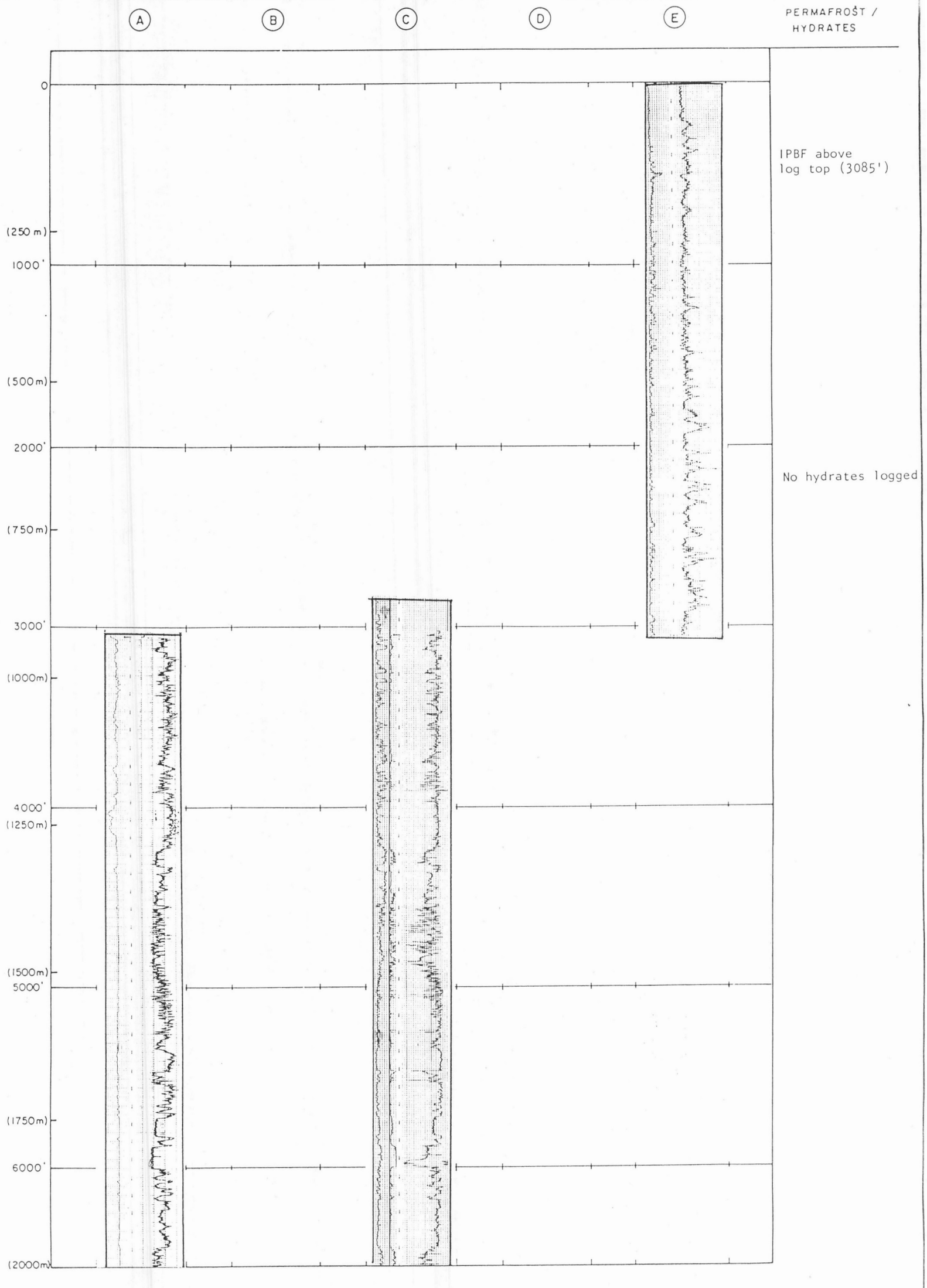
HARDY ASSOCIATES (1978) LTD.
CONSULTING ENGINEERING & PROFESSIONAL SERVICES

PERMAFROST / GAS HYDRATE STUDY
NORTHWEST TERRITORIES - YUKON

TROUT LAKE M-51

CG10136

FIGURE 210



LOGS (LEFT TO RIGHT)

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

HARDY ASSOCIATES (1978) LTD.
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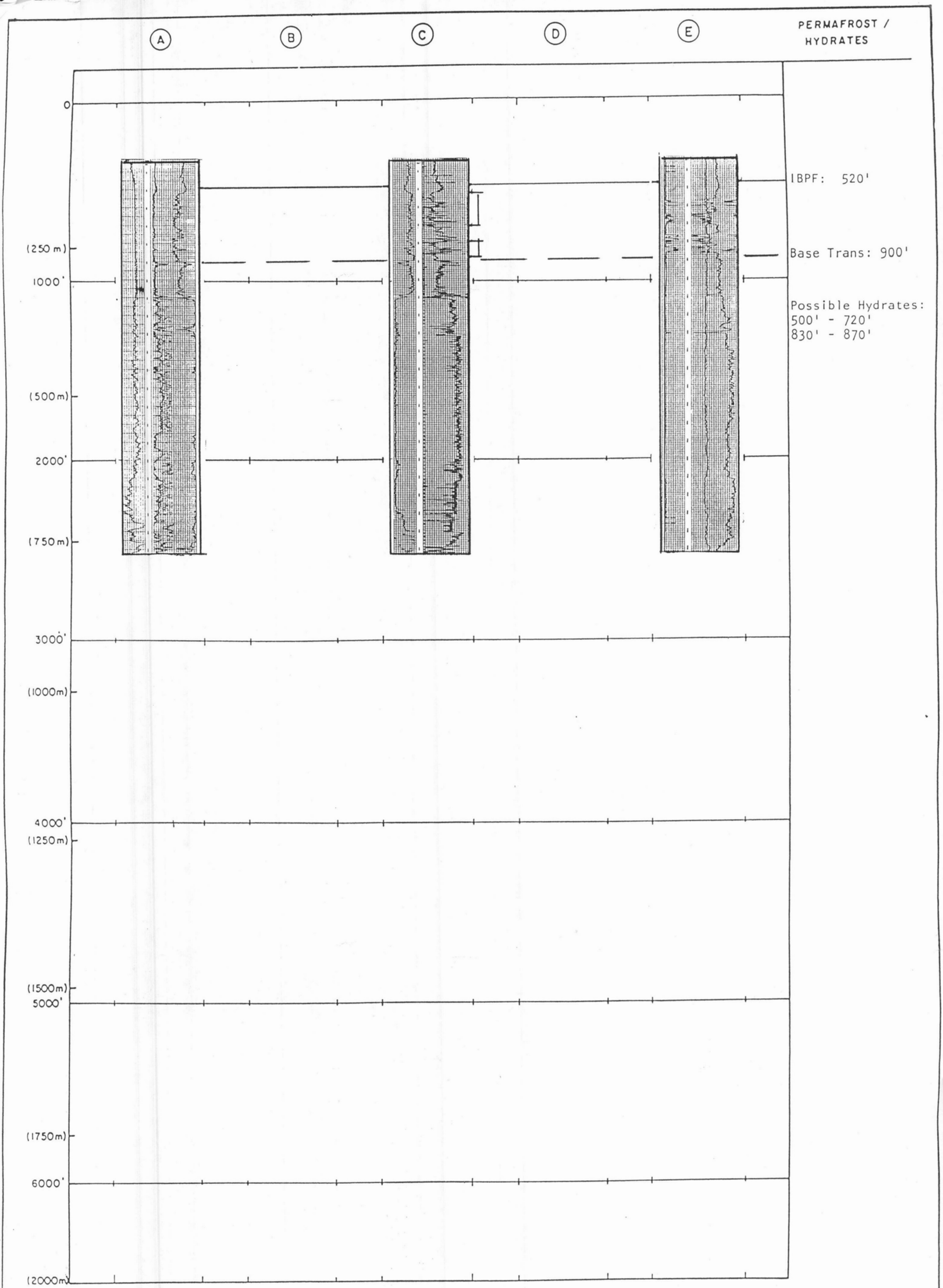
PERMAFROST / GAS HYDRATE STUDY
NORTHWEST TERRITORIES – YUKON

POINTED MOUNTAIN G-62

CGI0136

FIGURE 211



LOGS (LEFT TO RIGHT)

(A) IND E

(B)

(C) AC-GR

(D)

(E) DENS

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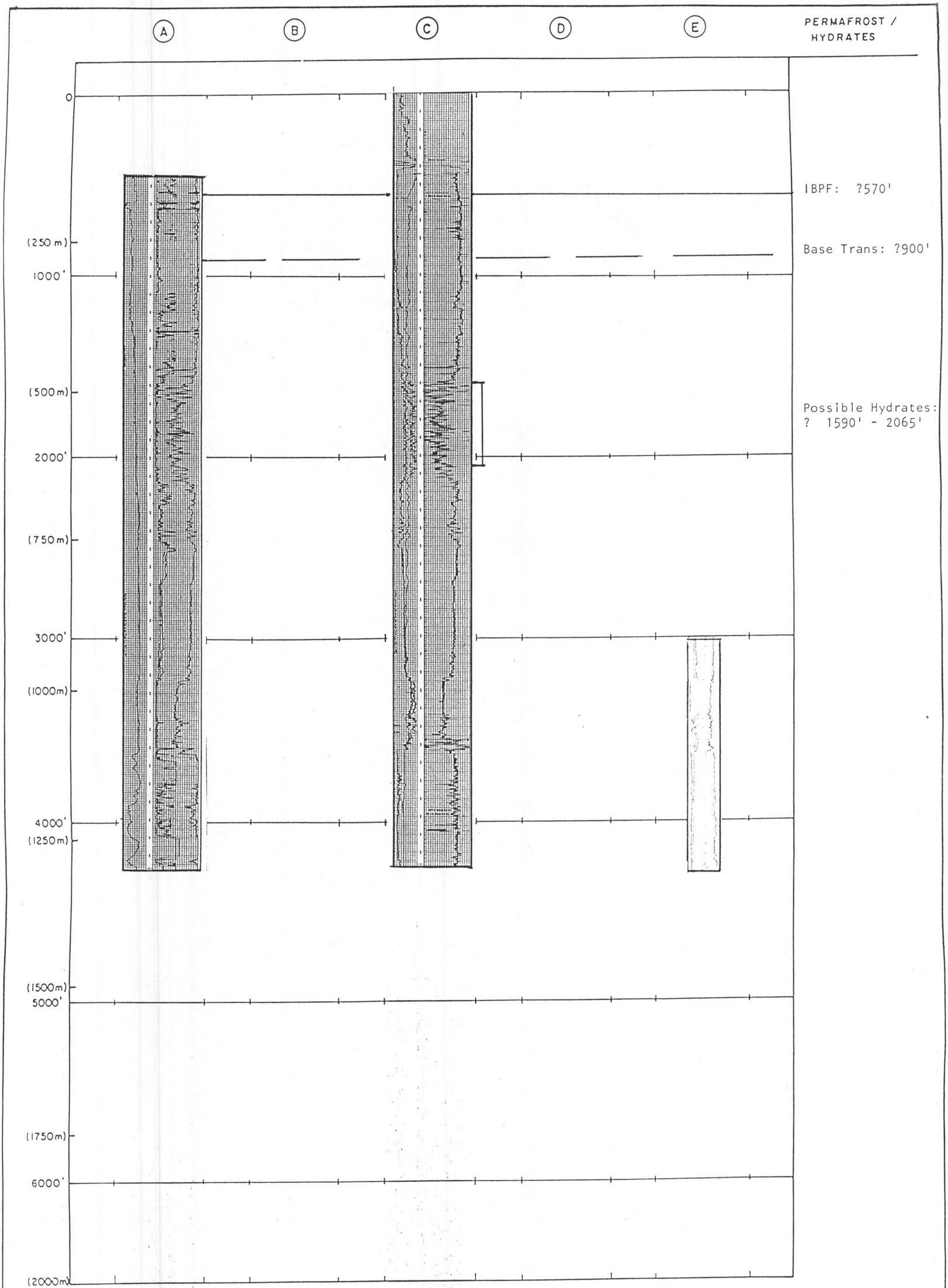
PERMAFROST / GAS HYDRATE STUDY
NORTHWEST TERRITORIES – YUKON

GRUMBLER I-72

CGI0136

FIGURE 212



LOGS (LEFT TO RIGHT)

(A) DILL

(B)

(C) BHCS

(D)

(E) CNFD

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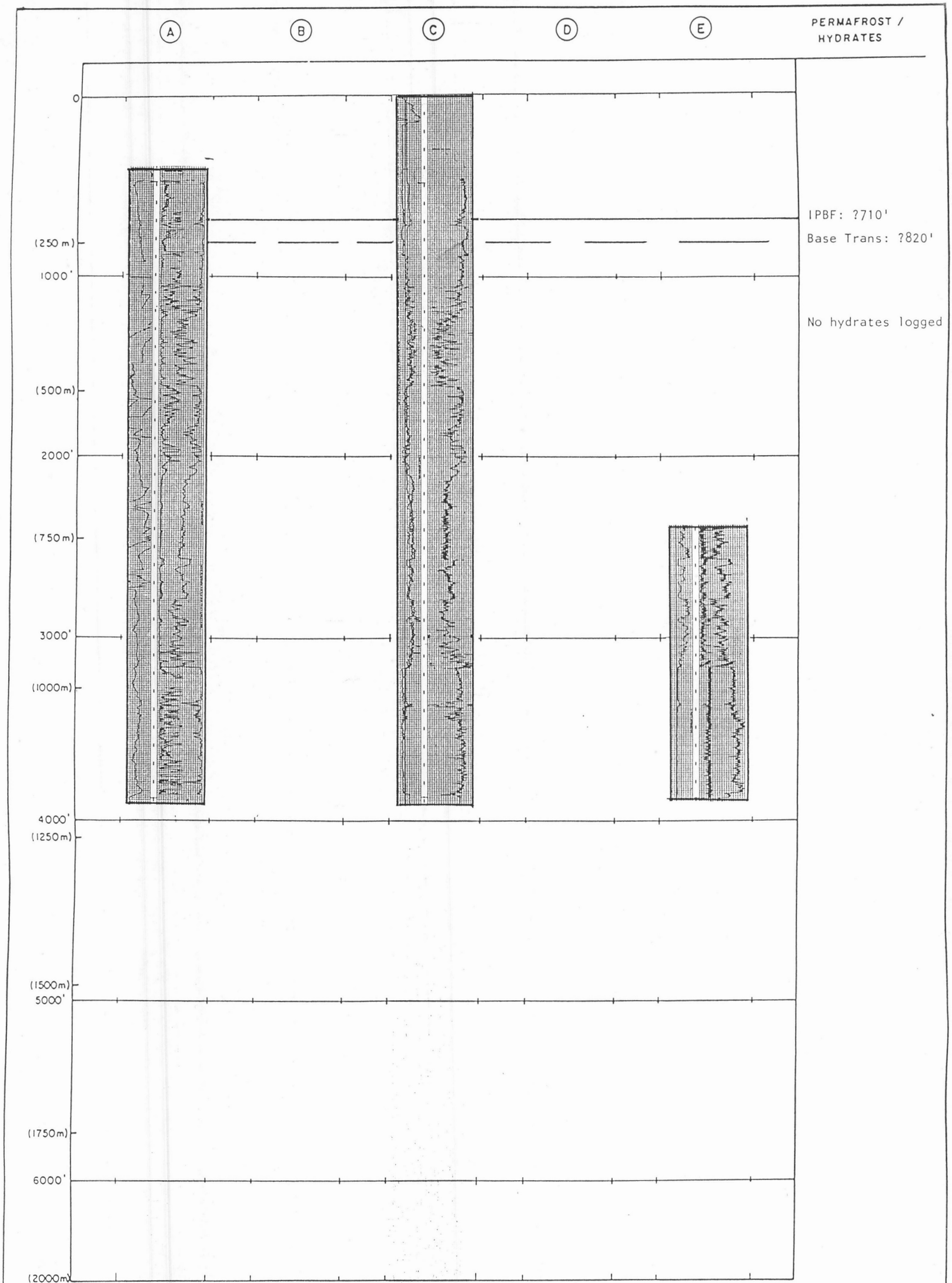
PERMAFROST / GAS HYDRATE STUDY
NORTHWEST TERRITORIES – YUKON

TATHLINA I-72

CGI0136

FIGURE 213



LOGS (LEFT TO RIGHT)

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

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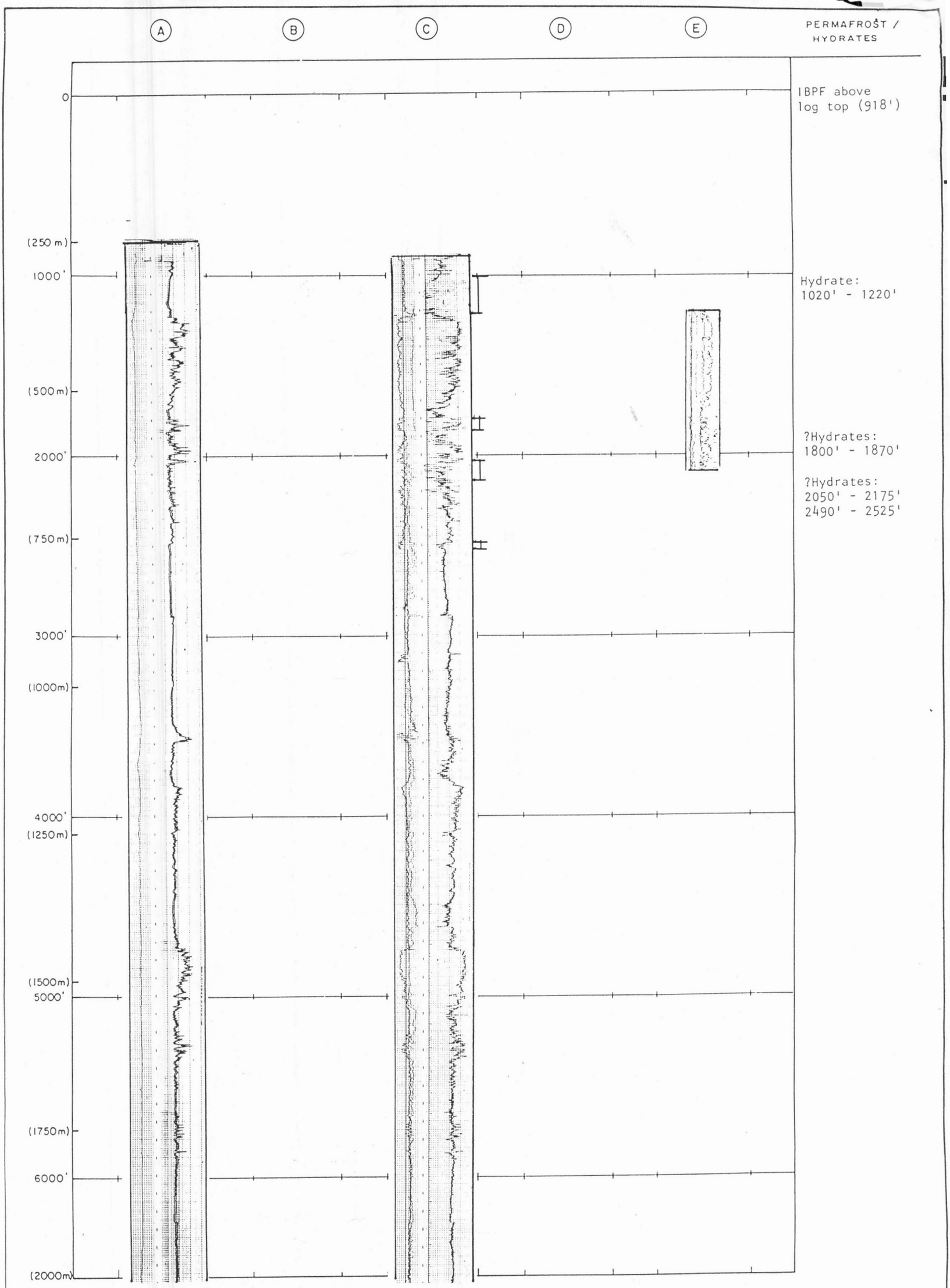
PERMAFROST / GAS HYDRATE STUDY
NORTHWEST TERRITORIES – YUKON

ALEXANDRA O-54

CGI0136

FIGURE 214



LOGS (LEFT TO RIGHT)

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

HARDY ASSOCIATES (1978) LTD.
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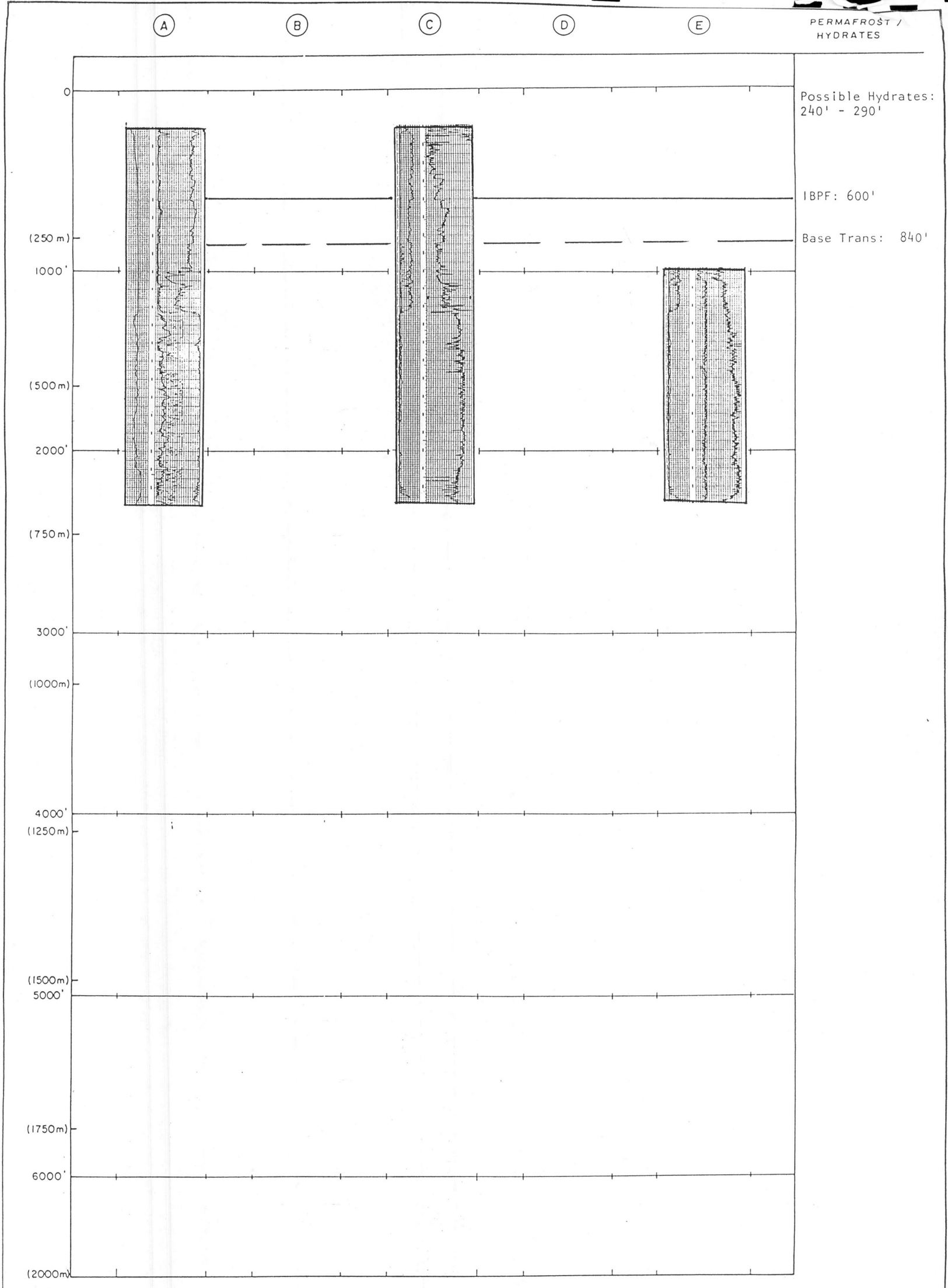
PERMAFROST / GAS HYDRATE STUDY
NORTHWEST TERRITORIES – YUKON

CELIBETA D-66

CGIO136

FIGURE 215



LOGS (LEFT TO RIGHT)

(A) IND E

(B)

(C) BHCS

(D)

(E) FDEN

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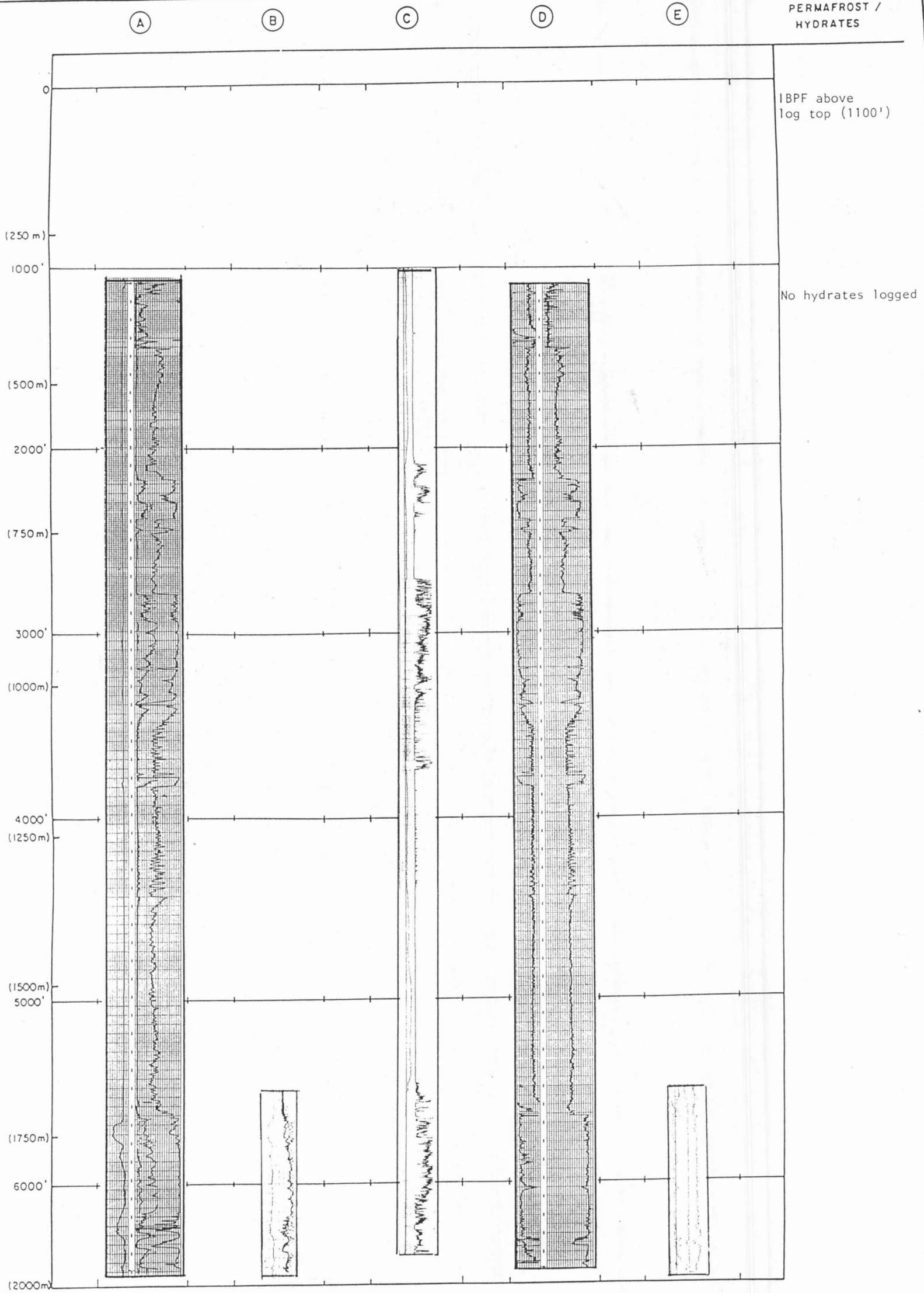
CONSULTING ENGINEERING & PROFESSIONAL SERVICES

PERMAFROST / GAS HYDRATE STUDY
NORTHWEST TERRITORIES - YUKON

GRUMBLER -07

CG10136

FIGURE 216



LOGS (LEFT TO RIGHT)

- (A) IND E
- (B) DIL
- (C) ML-C
- (D) BHCS
- (E) FDEN

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NORTHWEST TERRITORIES - YUKON

TRAINOR L-59

CGI0136

FIGURE 217