

PD-NCB Consultants Limited



In association with

Wright Engineers Ltd & Golder Associates

Report No. 3

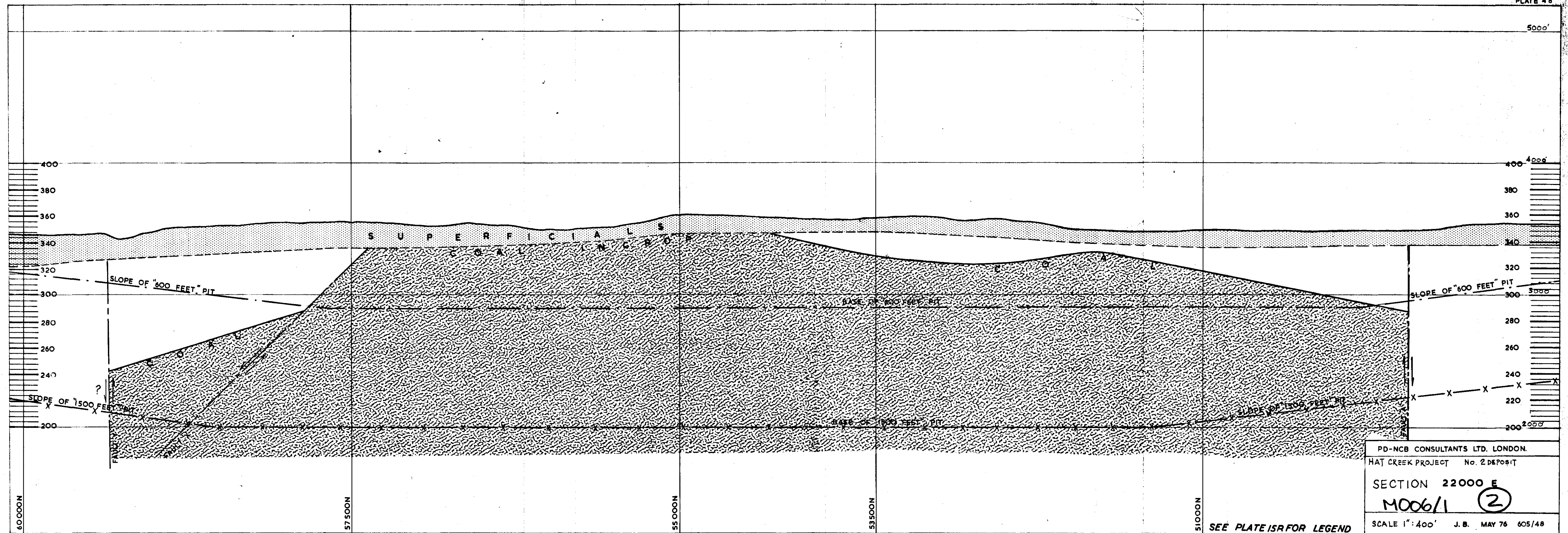
Preliminary Report on Hat Creek Openpit No. 2

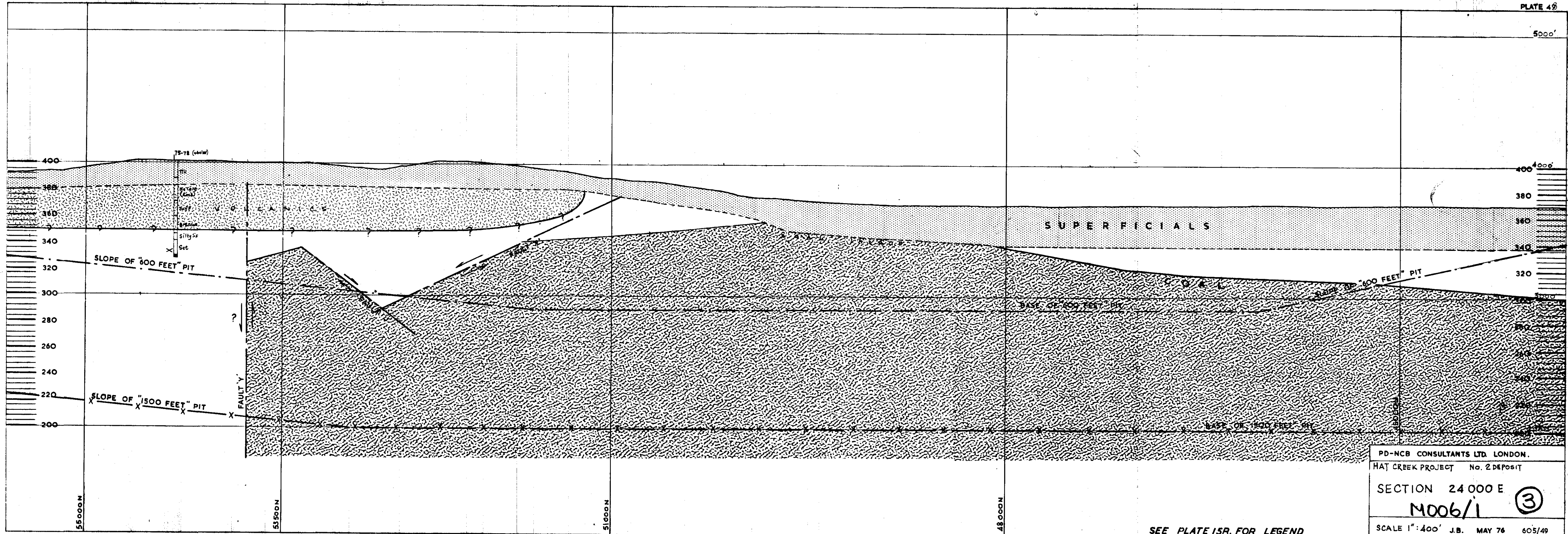
Volume II

to

British Columbia Hydro and Power Authority

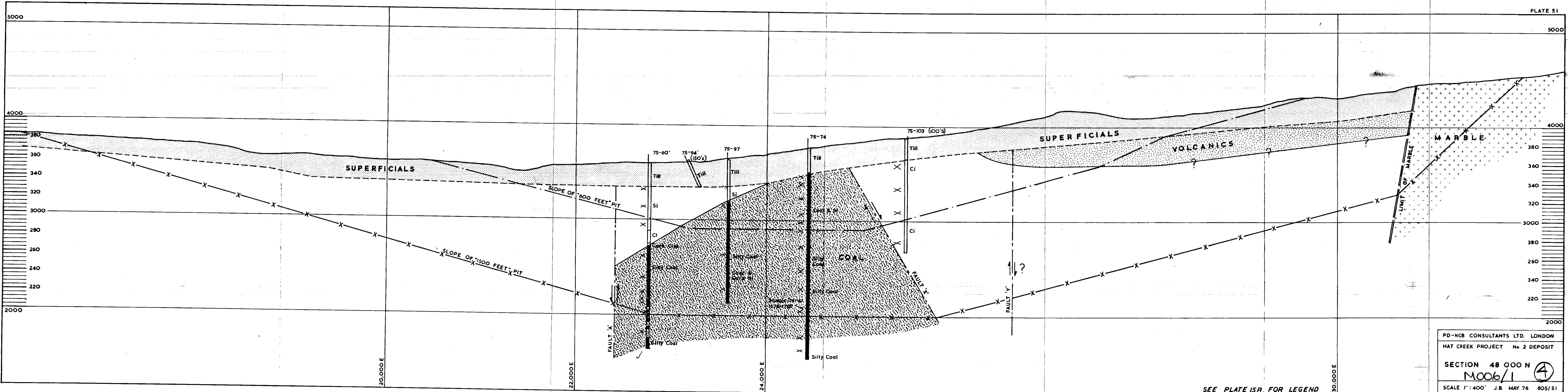
MOOB/2.





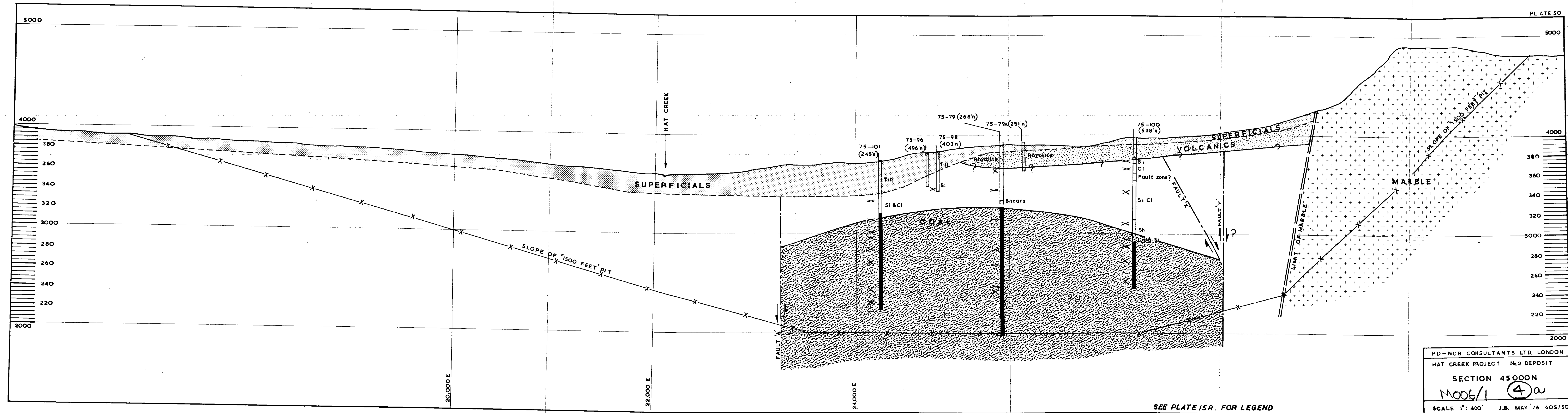
PD-NCB CONSULTANTS LTD LONDON.
HAT CREEK PROJECT No. 2 DEPOSIT
SECTION 24 000 E
M006/1 ③
SCALE 1"=400' J.B. MAY 76 605/49

SEE PLATE 15R. FOR LEGEND

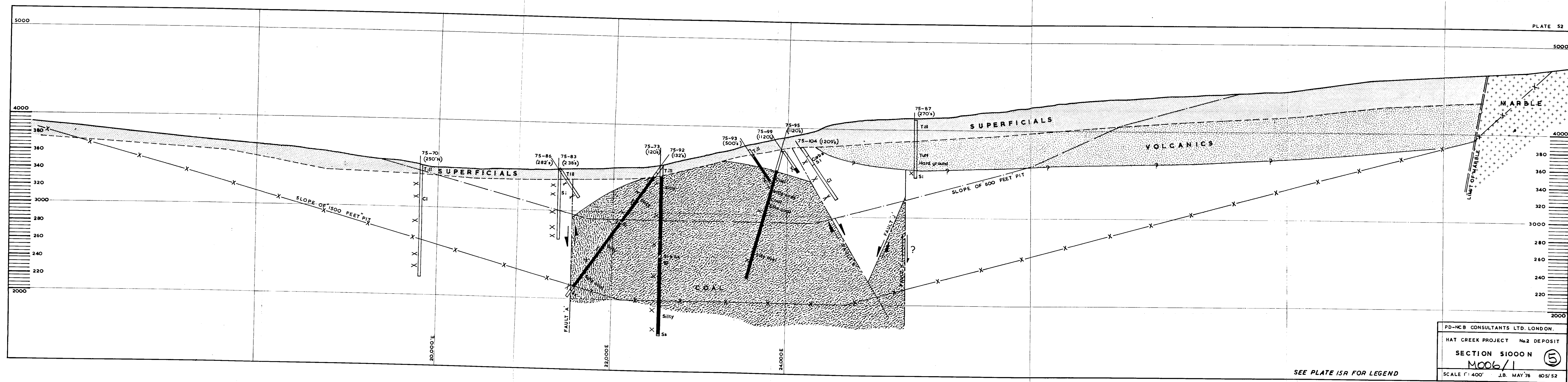


SEE PLATE 15R, FOR LEGEND

PD-NCB CONSULTANTS LTD. LONDON
HAT CREEK PROJECT No. 2 DEPOSIT
SECTION 48 000 N
M006/1
SCALE 1"=400' J.B. MAY 76 605/51



SEE PLATE 15R. FOR LEGEND



5000

4000

380

360

340

320

300

280

260

240

220

2000

2000

22000 E

24000 E

26000 E

28000 E

30000 E

32000 E

34000 E

36000 E

38000 E

40000 E

42000 E

44000 E

46000 E

48000 E

50000 E

52000 E

54000 E

56000 E

58000 E

60000 E

62000 E

64000 E

66000 E

68000 E

70000 E

72000 E

74000 E

76000 E

78000 E

80000 E

82000 E

84000 E

86000 E

88000 E

90000 E

92000 E

94000 E

96000 E

98000 E

100000 E

102000 E

104000 E

106000 E

108000 E

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116000 E

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126000 E

128000 E

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156000 E

158000 E

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164000 E

166000 E

168000 E

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174000 E

176000 E

178000 E

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186000 E

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302000 E

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368000 E

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372000 E

374000 E

376000 E

378000 E

380000 E

382000 E

384000 E

386000 E

388000 E

390000 E

392000 E

394000 E

396000 E

398000 E

400000 E

402000 E

404000 E

406000 E

408000 E

410000 E

412000 E

414000 E

416000 E

418000 E

420000 E

422000 E

424000 E

426000 E

428000 E

430000 E

432000 E

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438000 E

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442000 E

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446000 E

448000 E

450000 E

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462000 E

464000 E

466000 E

468000 E

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472000 E

474000 E

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556000 E

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562000 E

564000 E

566000 E

568000 E

570000 E

572000 E

574000 E

576000 E

578000 E

580000 E

582000 E

584000 E

586000 E

58800

5000'

4000'

380

360

340

320

3000

280

260

240

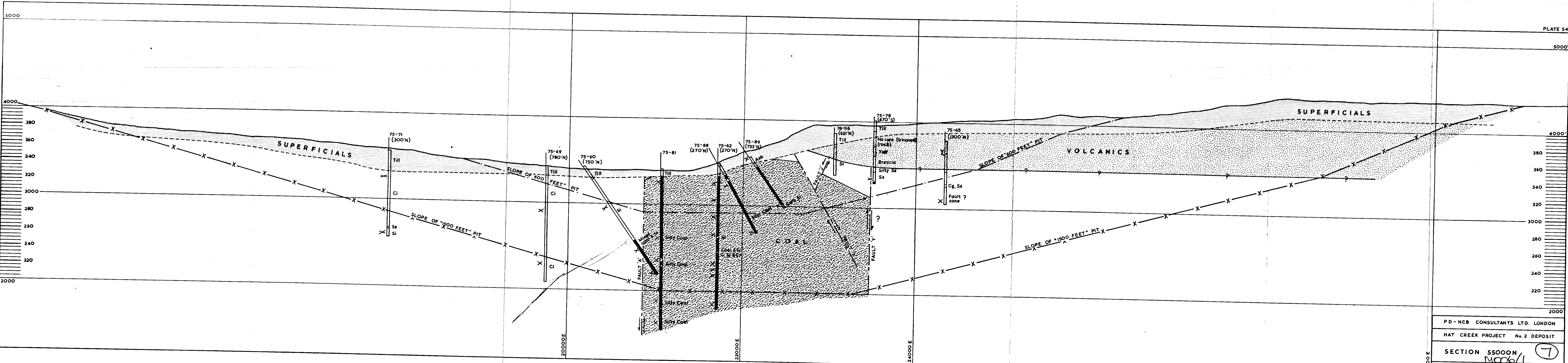
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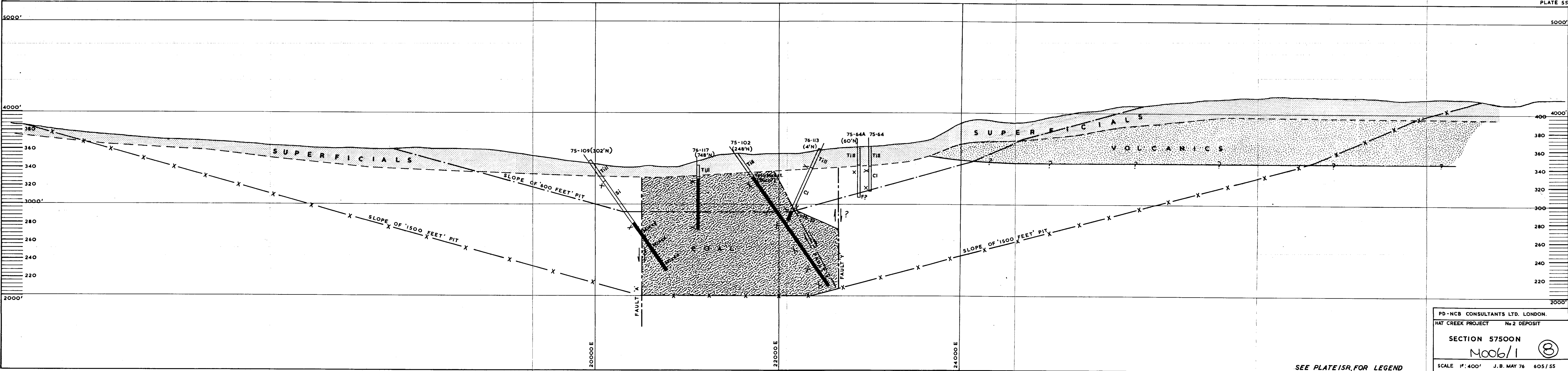
2000

PD-NCB CONSULTANTS LTD. LONDON
HAT CREEK PROJECT No. 2 DEPOSIT
SECTION 55000N
M006/1
SCALE 1"=400' J.B. MAY 76 605/54

7

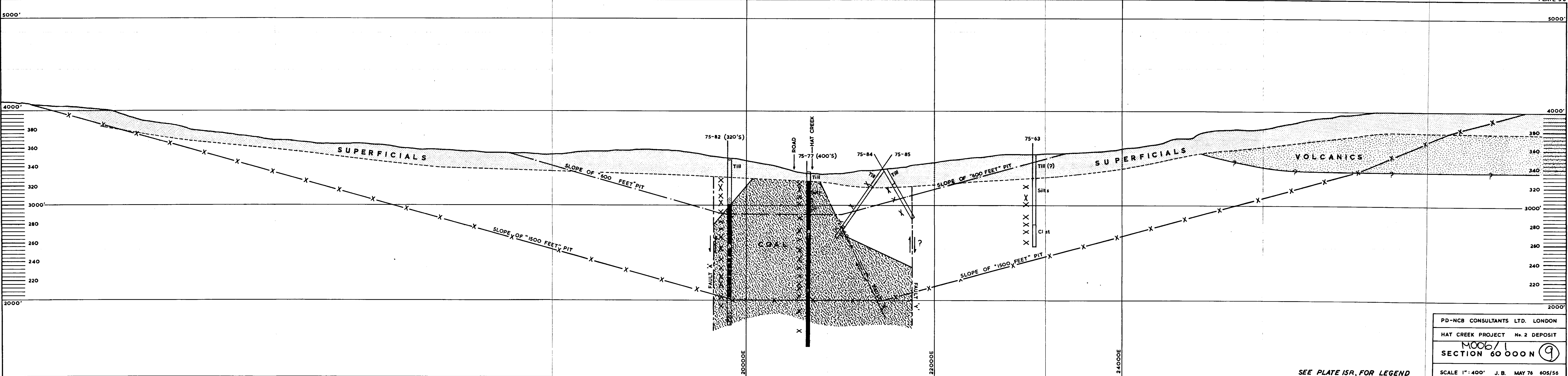
SEE PLATE 15R FOR LEGEND

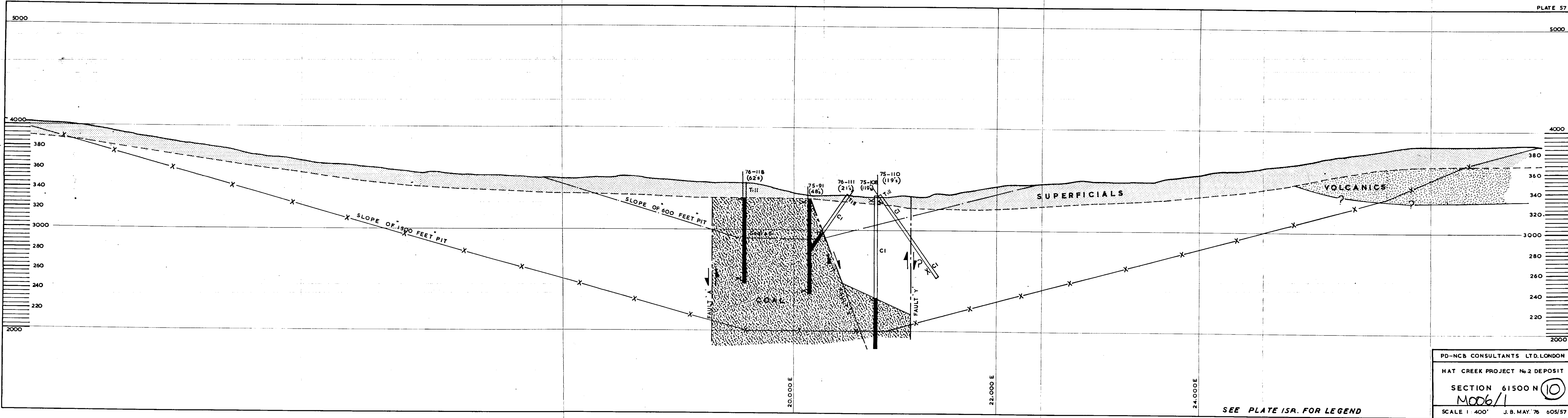




SEE PLATE 15R FOR LEGEND

PD-NCB CONSULTANTS LTD. LONDON.	
HAT CREEK PROJECT No 2 DEPOSIT	
SECTION 57500N	
M006/1 ⑧	
SCALE 1"=400'	J.B. MAY 76 605/55





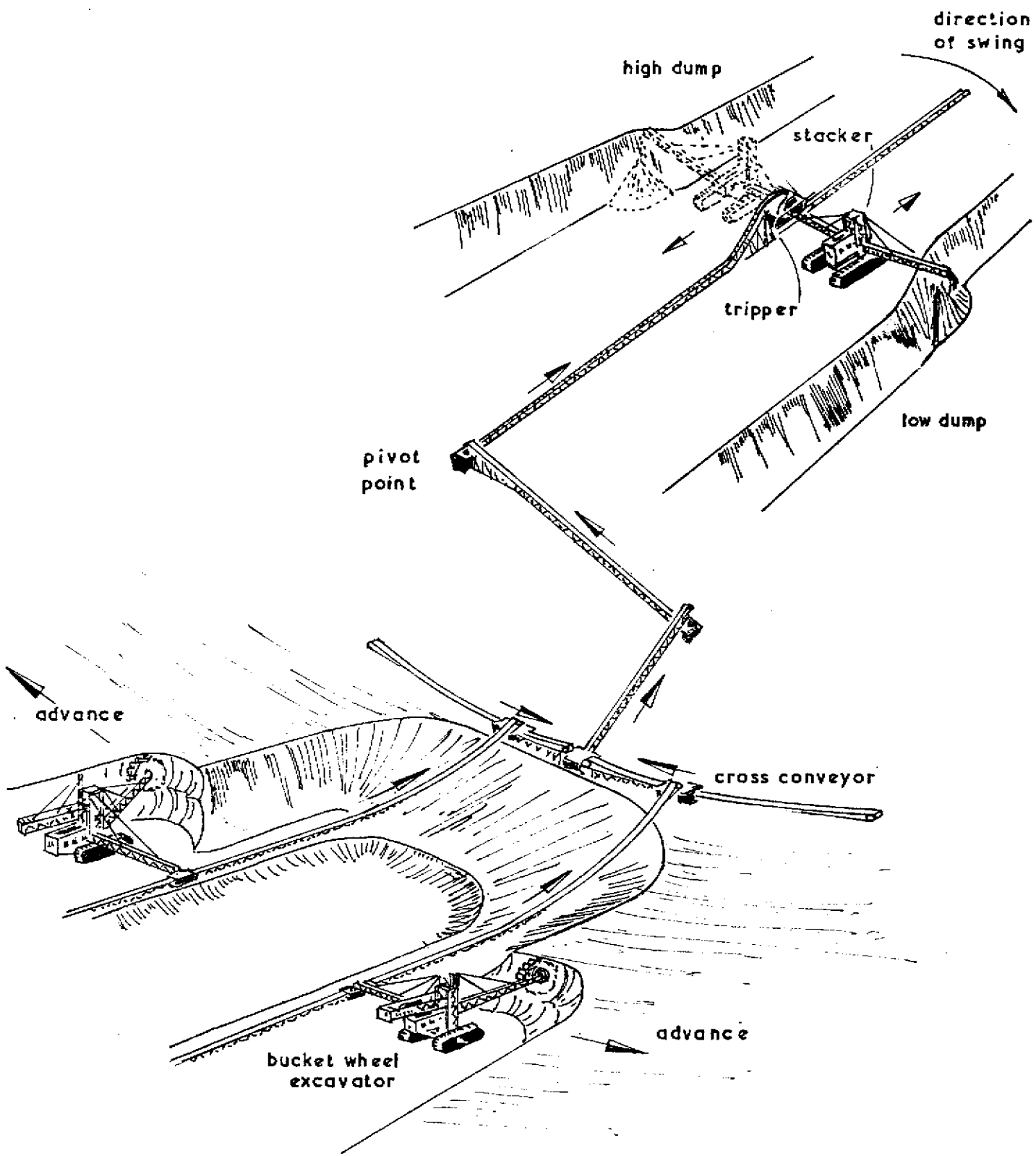
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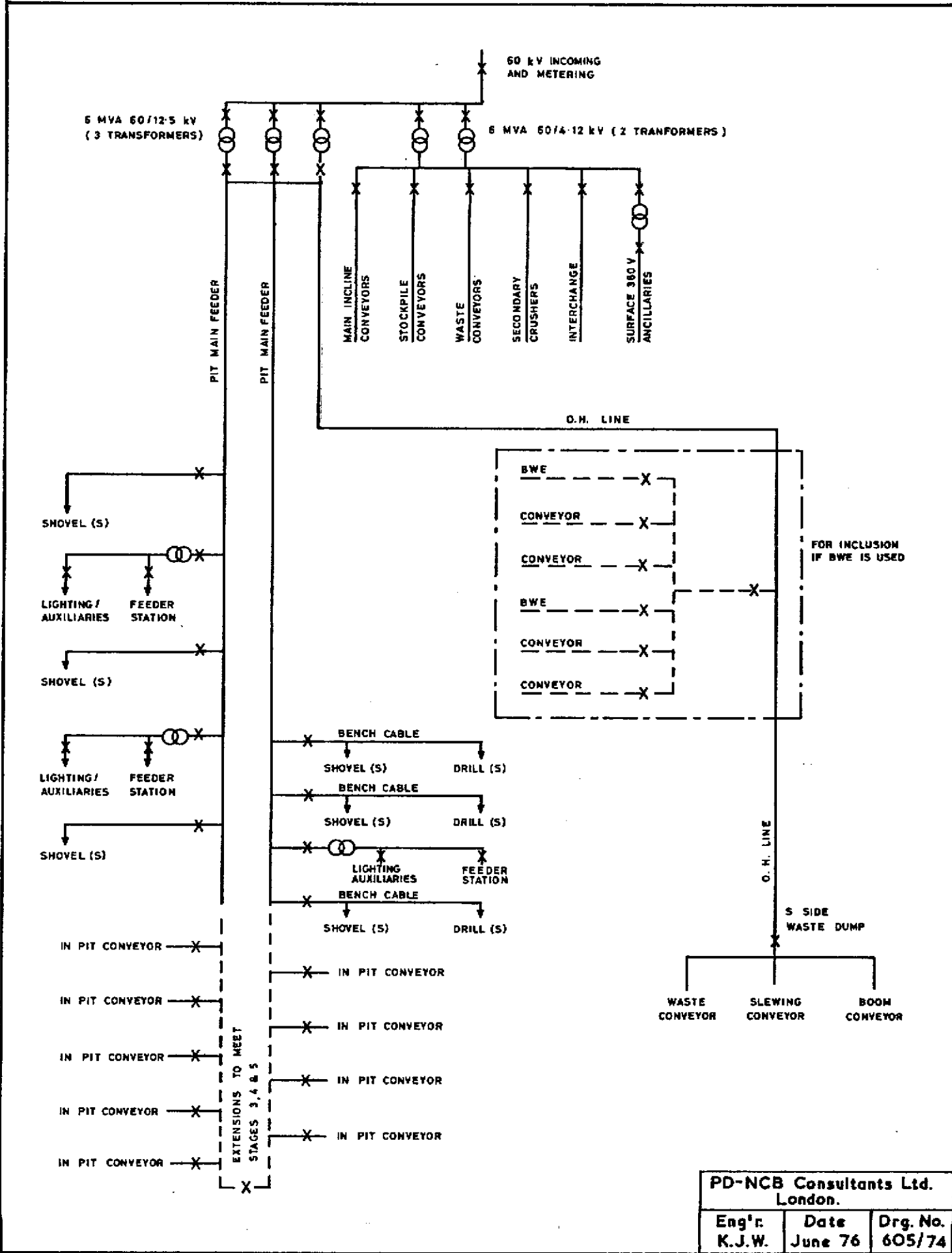
OPENPIT No. 2

DIAGRAMMATIC LAYOUT OF SCHEME FOR SUPERFICIAL REMOVAL
BY BUCKET WHEEL EXCAVATOR

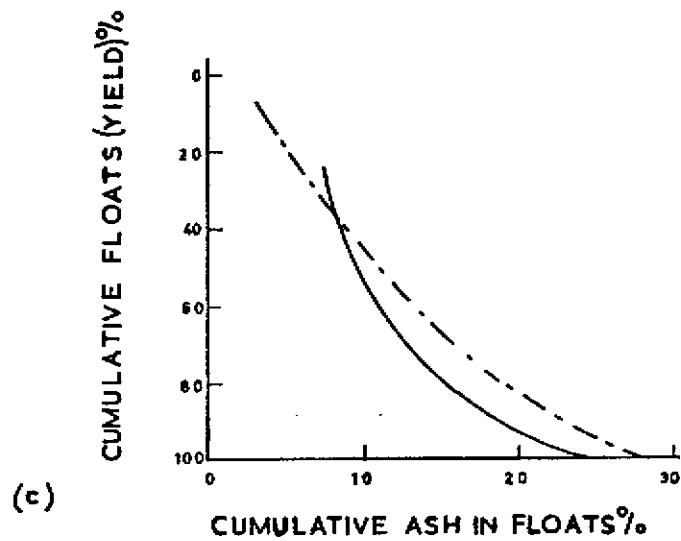
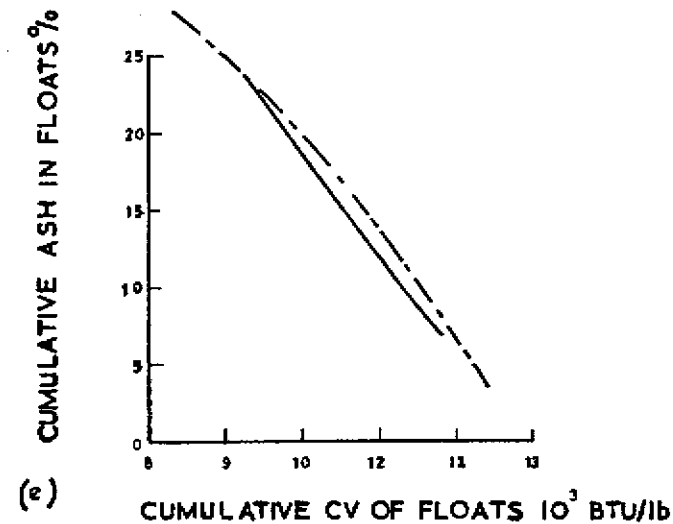
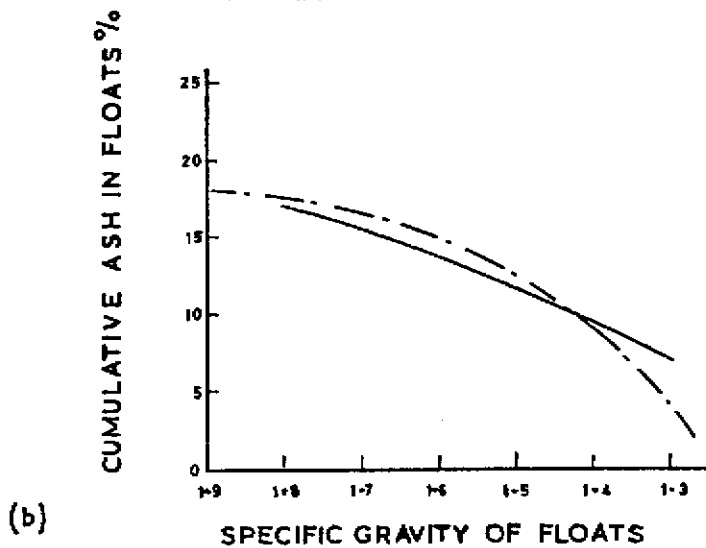
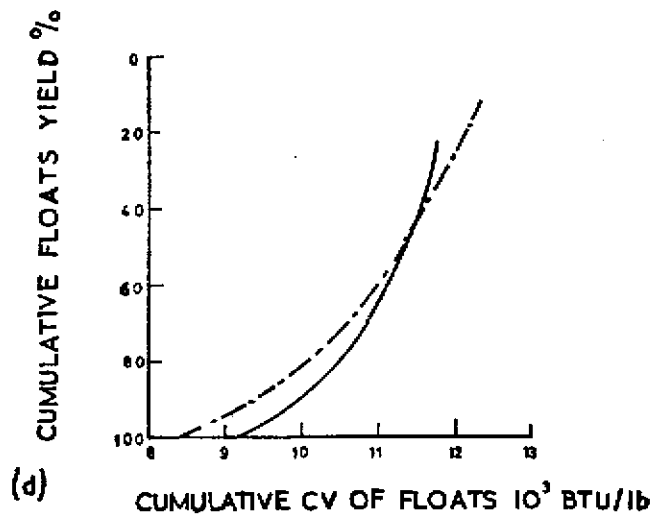
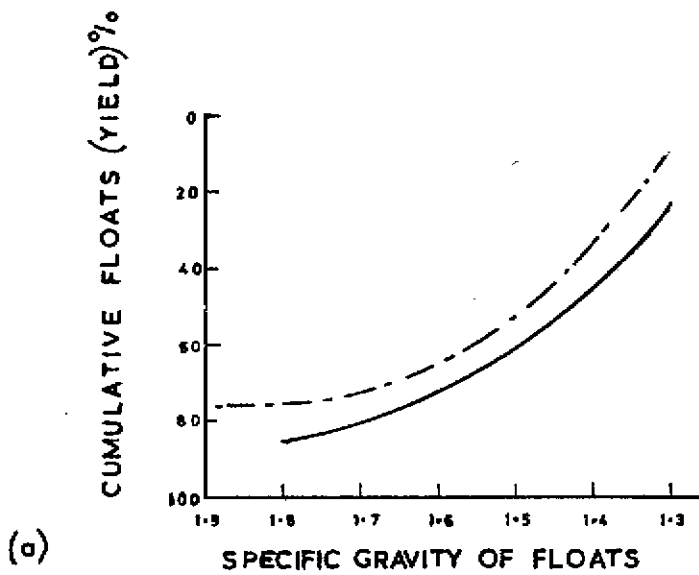


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Eng'r K. J. W.	Date May 76	Drg. No. 605/73

POWER DISTRIBUTION SYSTEM FOR ULTIMATE PIT



WASHABILITY CHARACTERISTICS OF A TYPICAL HAT CREEK COAL
BOREHOLE N° 75-74



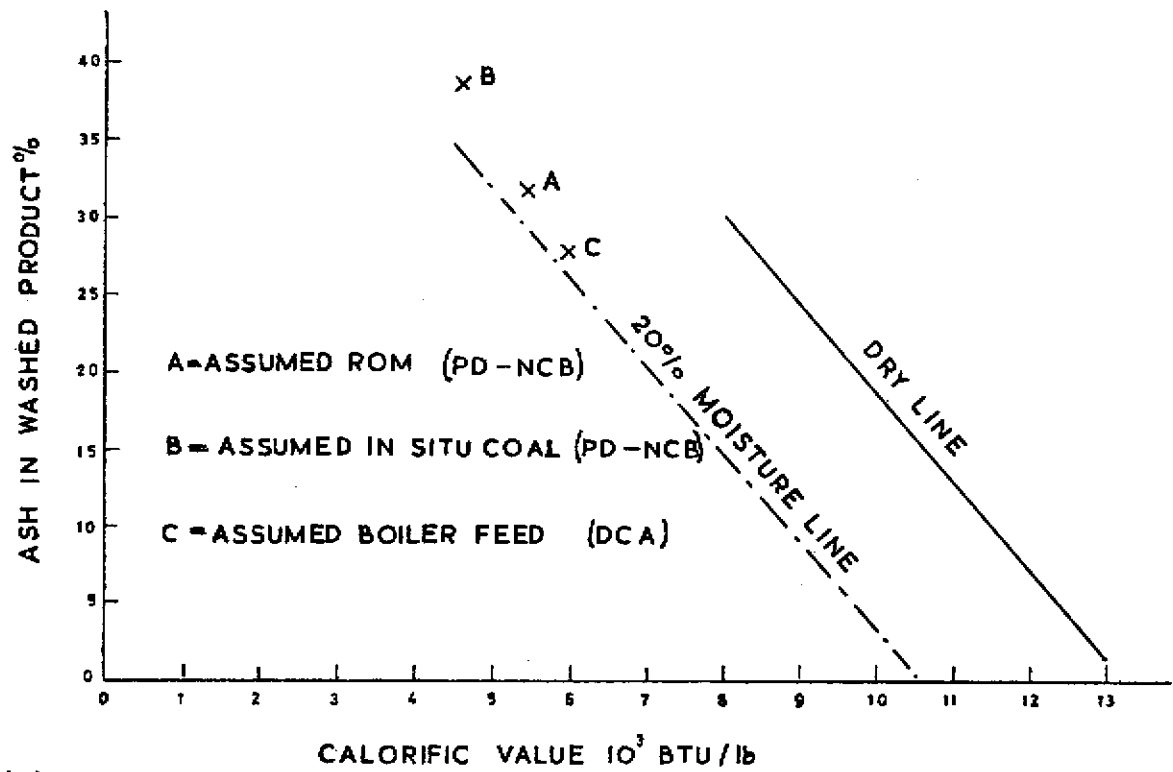
— N.C.B. SAMPLE MINUS $\frac{1}{4}$ in
- - - LORING SAMPLE MINUS $\frac{1}{2}$ in

NOTE: ALL FIGURES ARE ON
A DRY BASIS

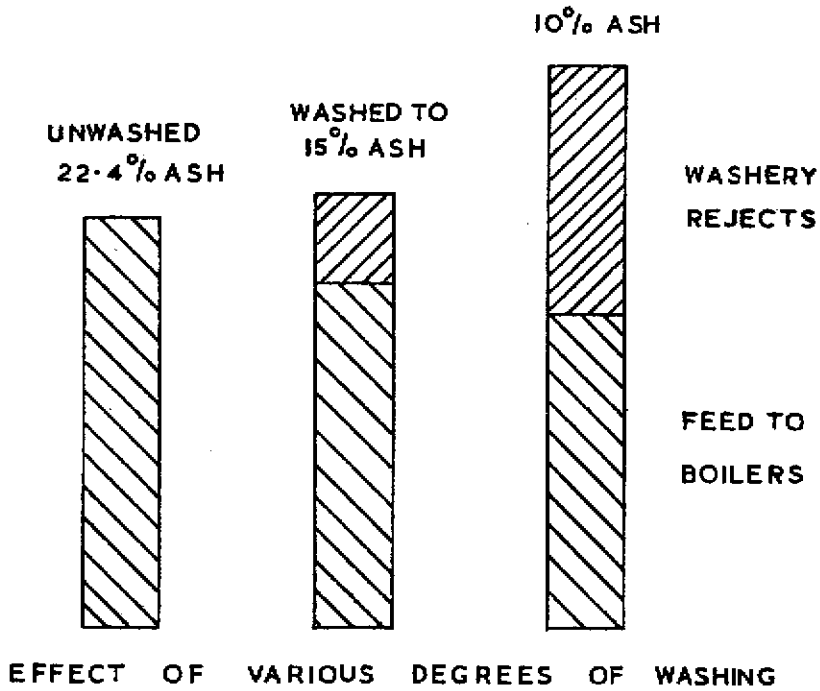
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London

Eng'r A.J.K.G.	Date MAY 76	Dwg. No. 605/75
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LORING SAMPLE FROM BOREHOLES N° 75-74
REPLOTTED TO SHOW EFFECT OF MOISTURE



(a)



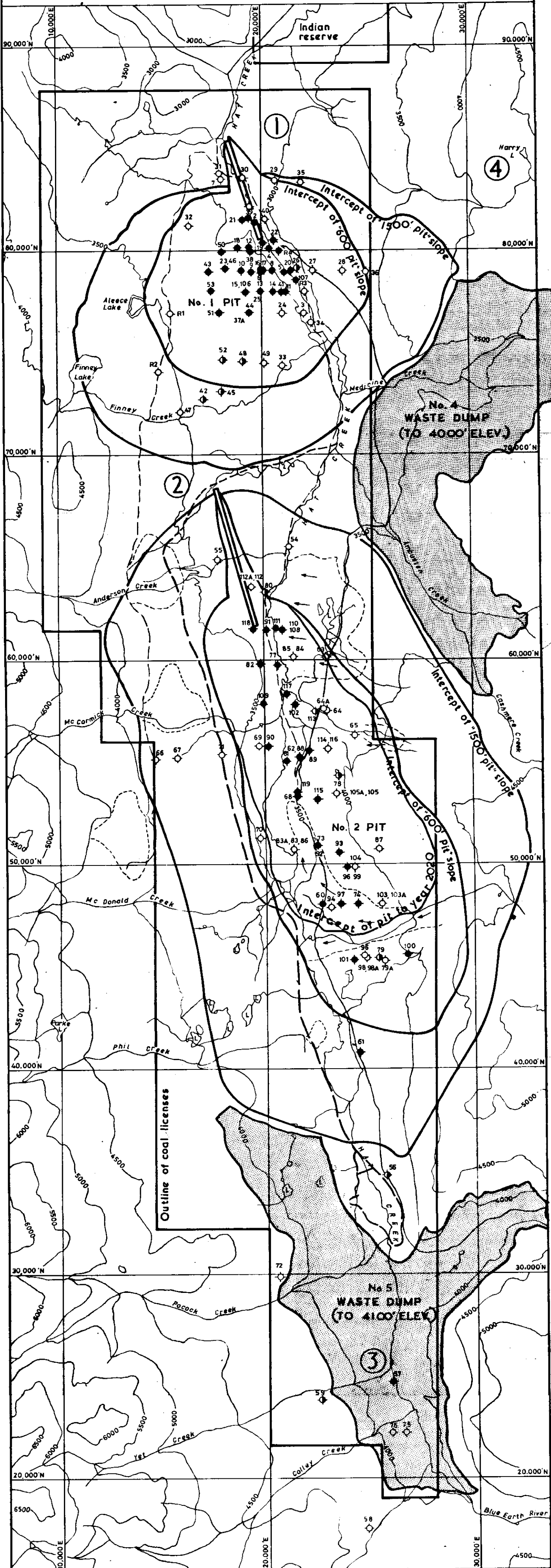
(b)

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PLAN OF SUPERFICIALS, PIT WASTE
AND ASH DISPOSAL — PIT TO
YEAR 2020 Scale 1" = 4000 Feet

M006/1

11



Possible power station sites
shown thus: ③
Volumes of dumps are
summarised in table. XLIII

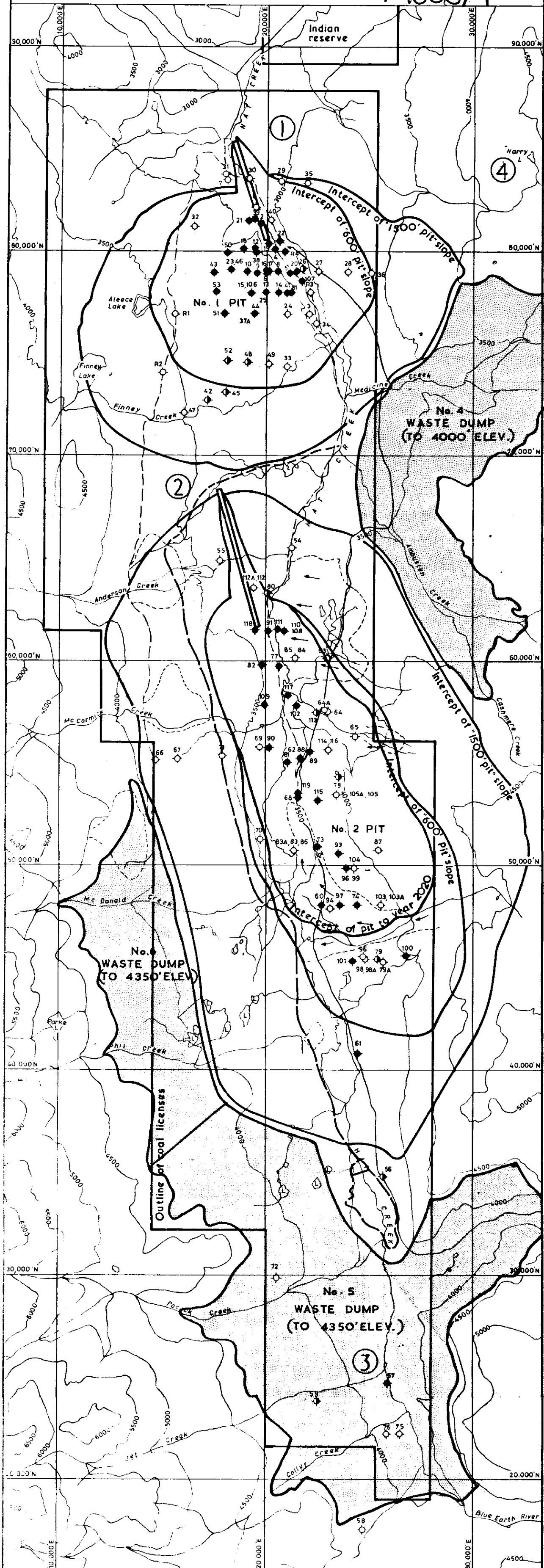
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LTD. LONDON
ENG'R DATE DRG. No.
J. B. MAY 76 605/78

PLAN OF SUPERFICIALS, PIT WASTE
AND ASH DISPOSAL — 600 FT. PIT

Scale 1" = 4000 Feet

M006/1

(12)



Possible power station sites
shown thus (3)
Volumes of dumps are
summarised in table XLIV

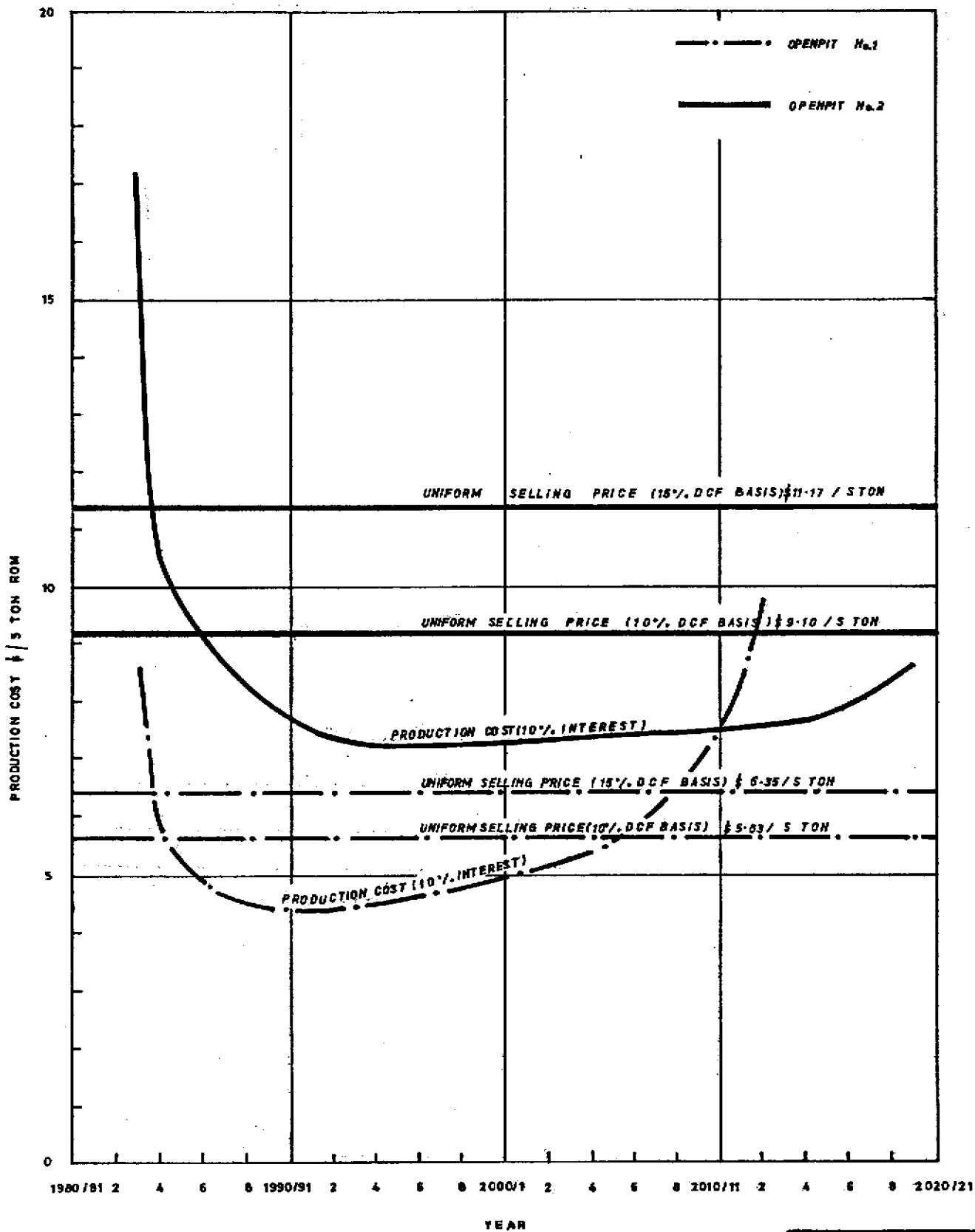
PD-NCB CONSULTANTS
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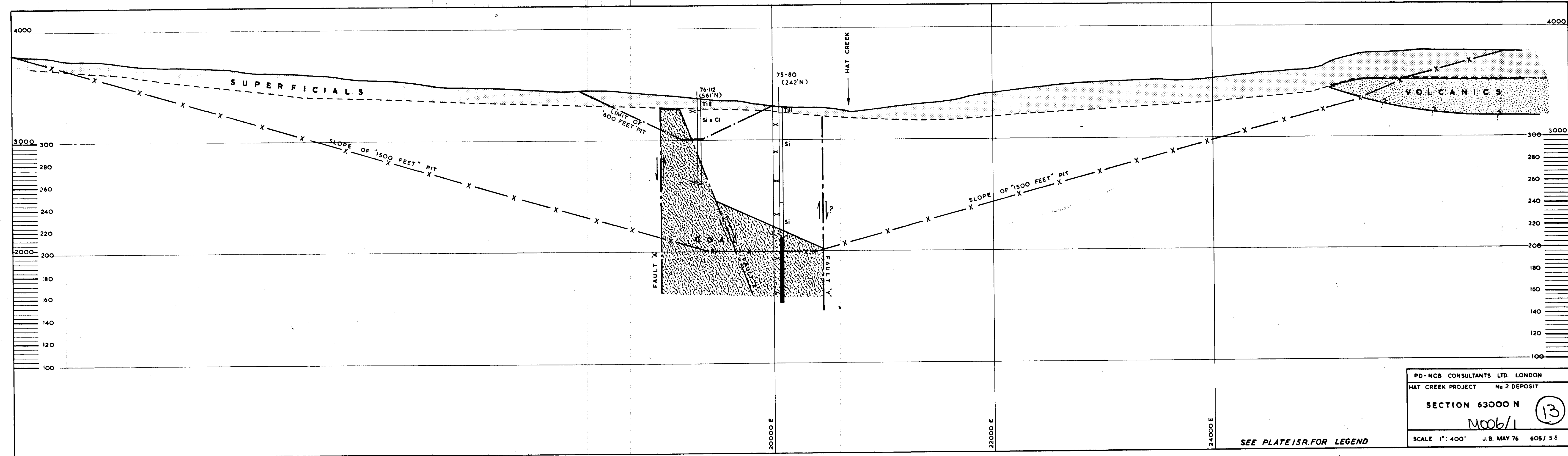
PRODUCTION COST AND UNIFORM SELLING PRICE

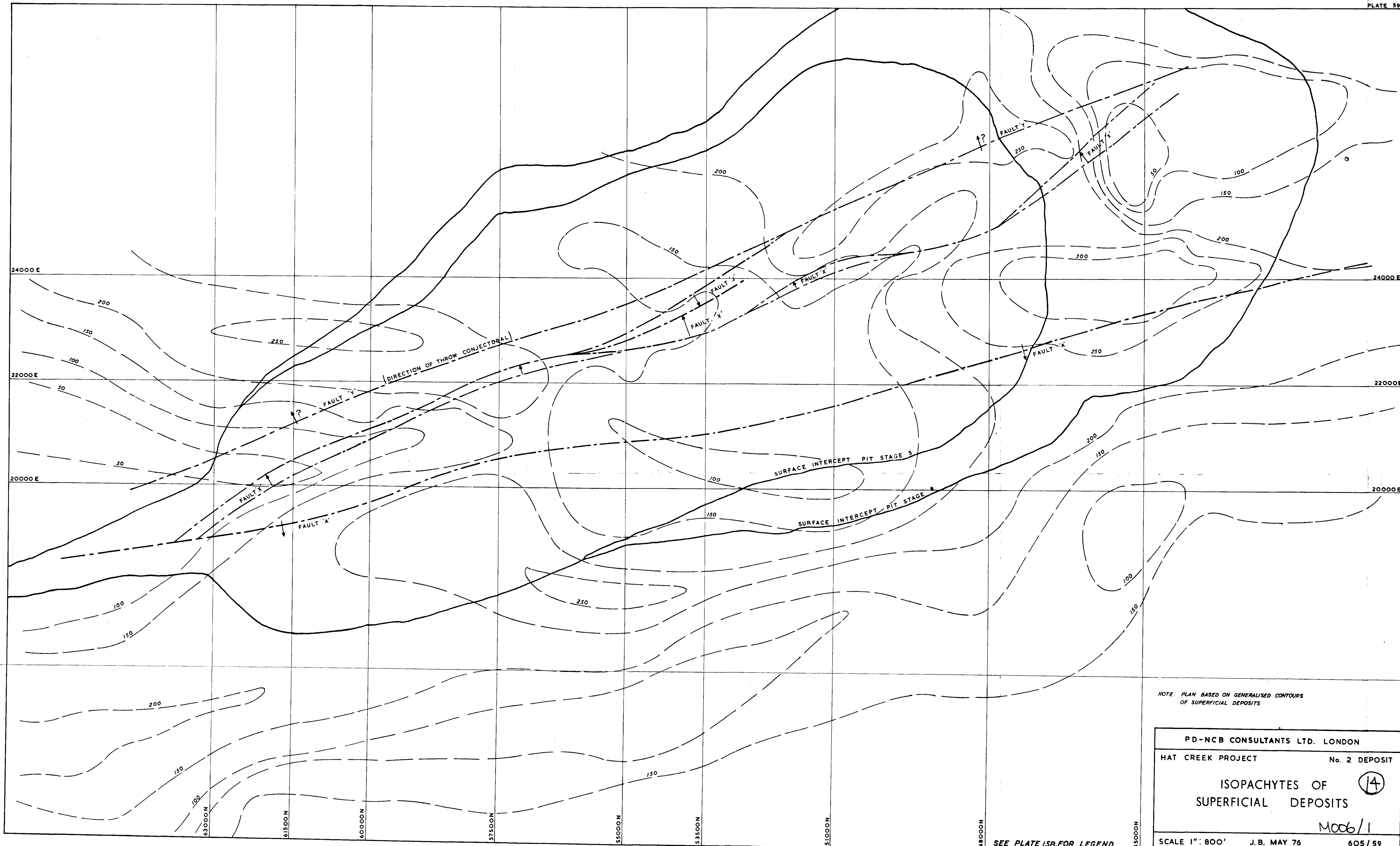
(Uninflated 1975 prices)

Comparison of Openpit No. 1
and No. 2



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Eng'r. S.C.B.	Date JUNE 76	Drg.No. 605/80





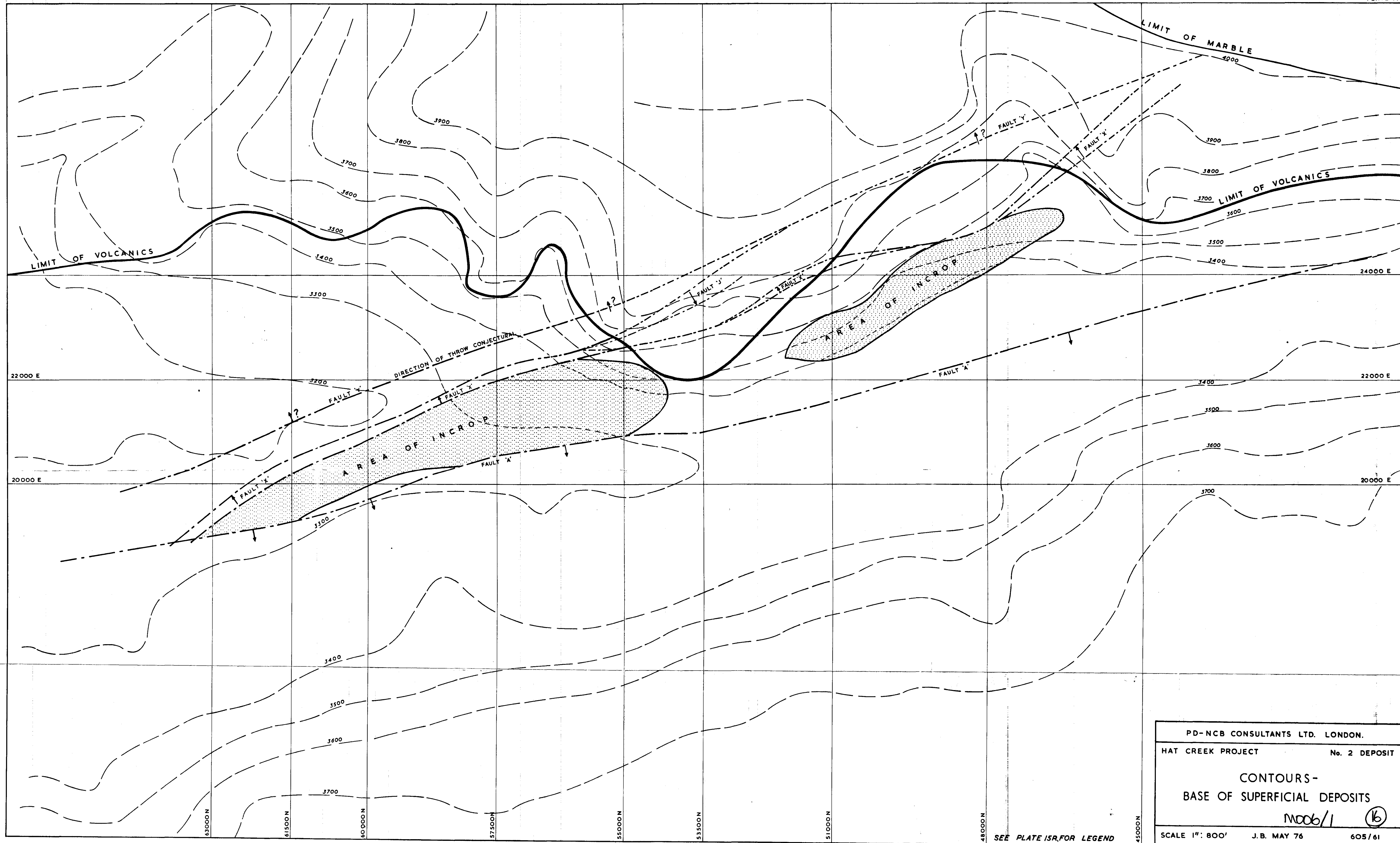
NOTE: PLAN BASED ON GENERALISED CONTOURS
OF SUPERFICIAL DEPOSITS

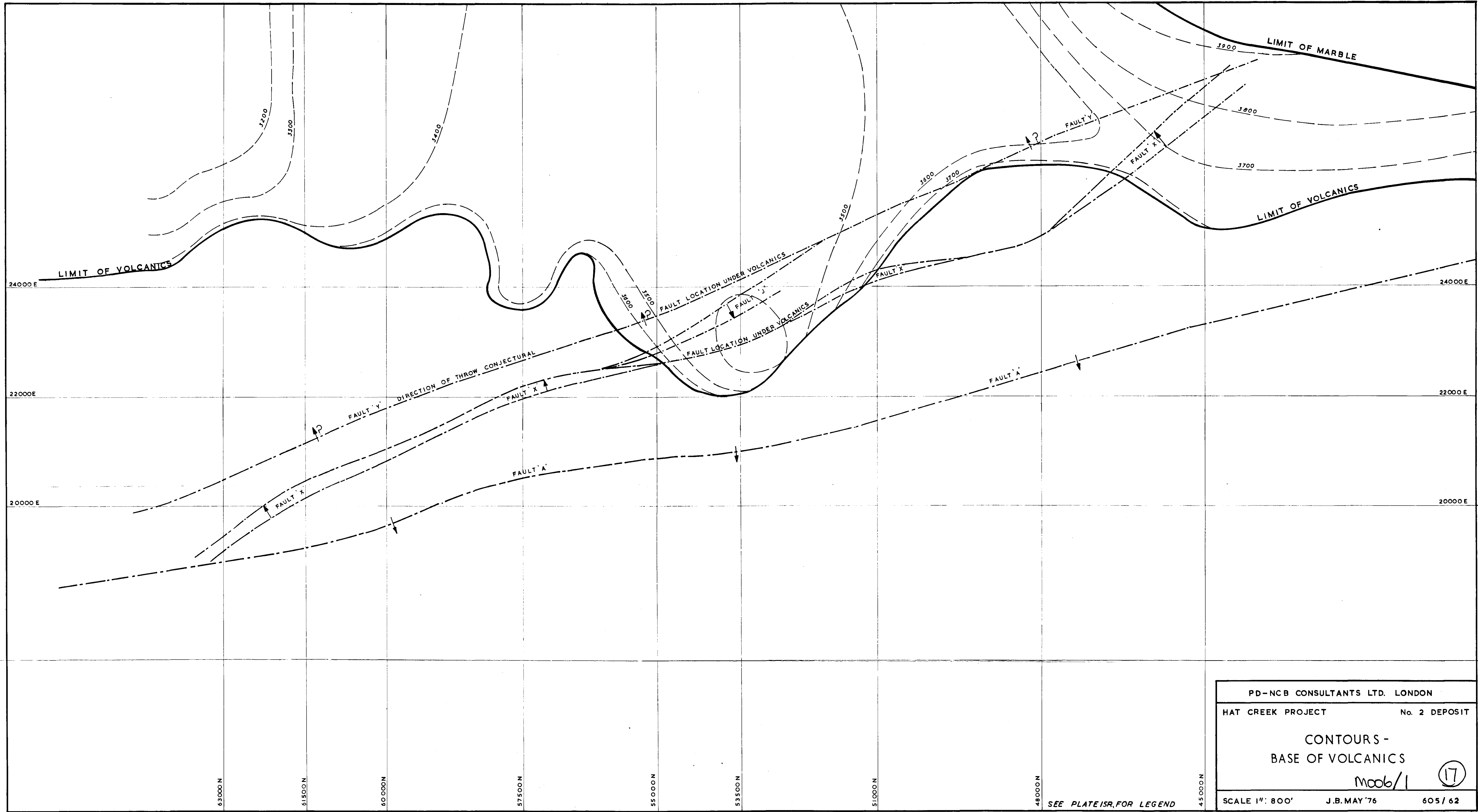
PD-NCB CONSULTANTS LTD. LONDON	
HAT CREEK PROJECT	No. 2 DEPOSIT
ISOPACHYTES OF SUPERFICIAL DEPOSITS	
M006/1	
SCALE 1" = 800'	J.B. MAY 76 605 / 59

SEE PLATE 15R FOR LEGEND



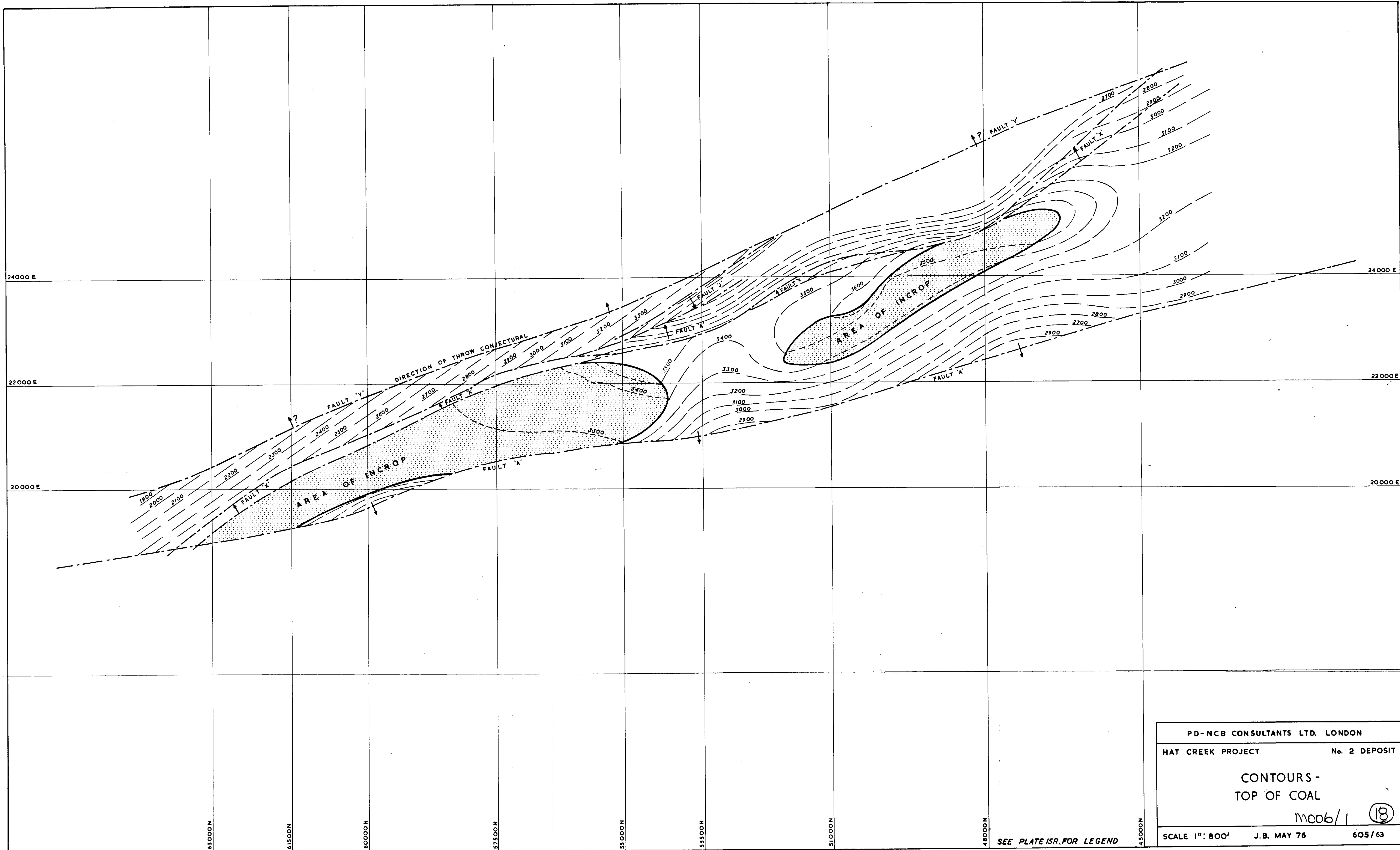
PD-NCB CONSULTANTS LTD. LONDON	
HAT CREEK PROJECT	No. 2 DEPOSIT
ISOPACHYTES—TOTAL OVERBURDEN	
M006/1 (15)	
SCALE 1"=800'	J.B. JUNE '76 605/60





PD-NCB CONSULTANTS LTD. LONDON	
HAT CREEK PROJECT	No. 2 DEPOSIT
CONTOURS - BASE OF VOLCANICS	
moob/1	
SCALE 1" = 800'	J.B. MAY '76
605/62	

SEE PLATE 15R FOR LEGEND



MOOG/

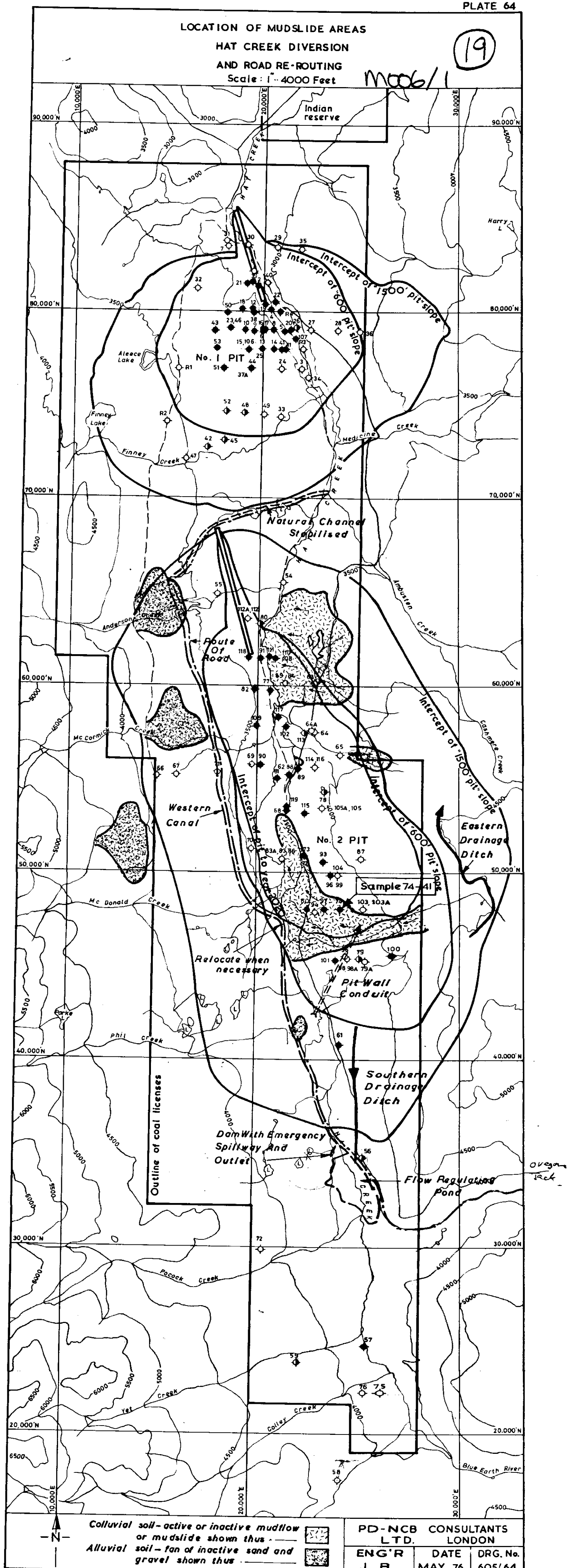
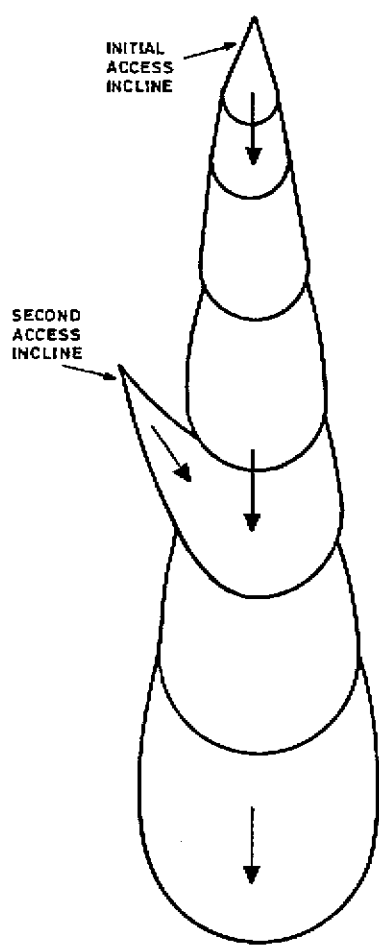


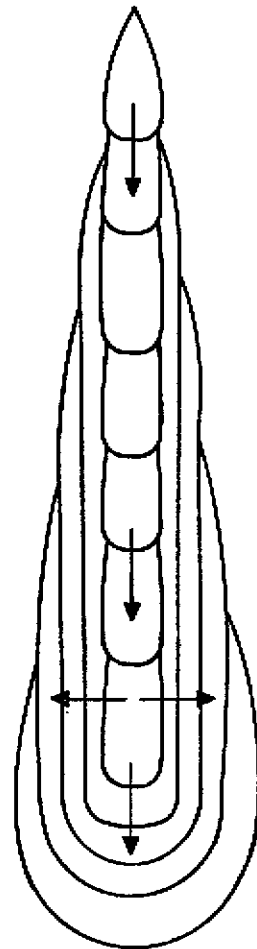
DIAGRAM OF MINING CONCEPTS

Not to scale



SCHEME A

North

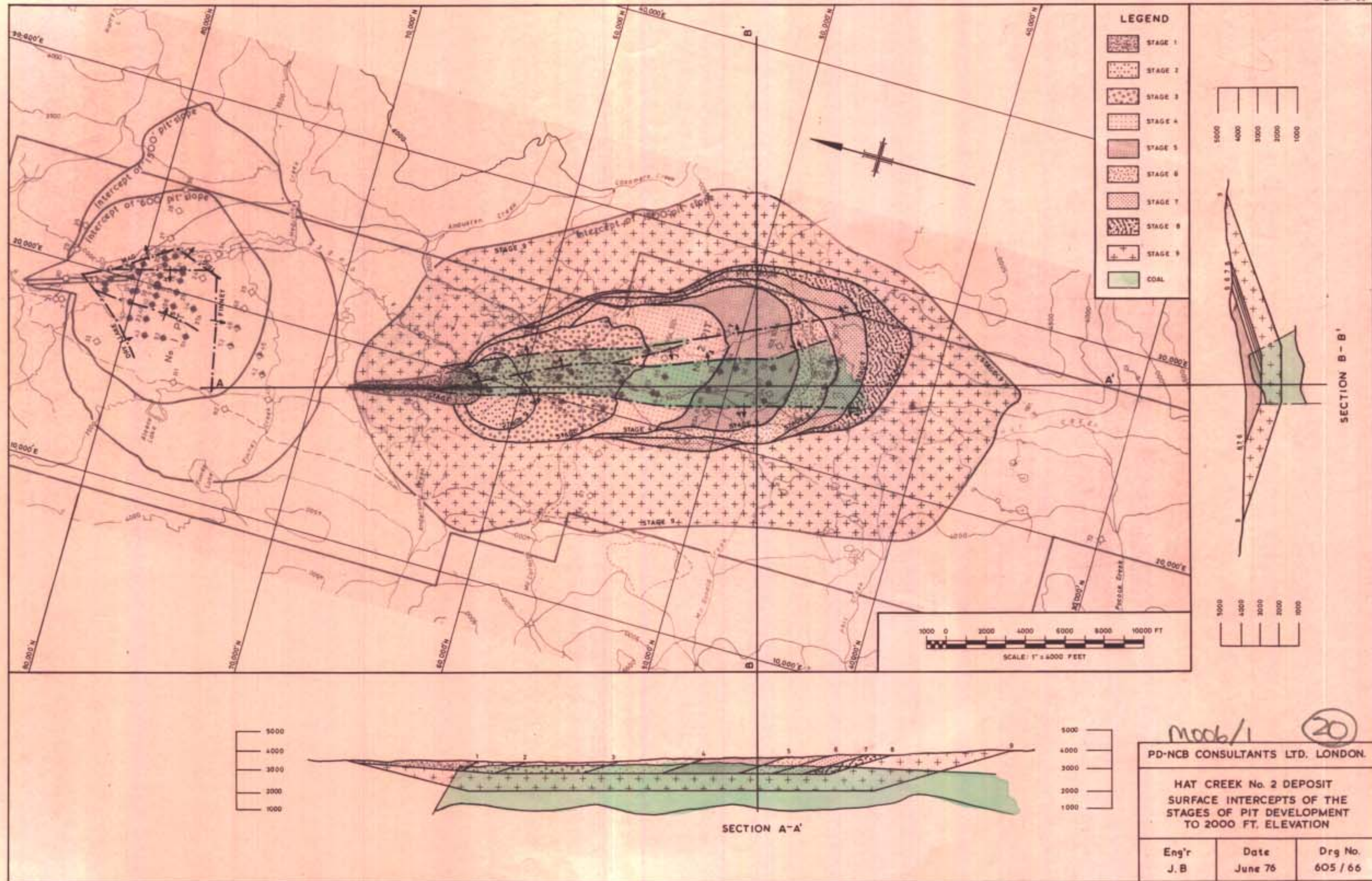


SCHEME B

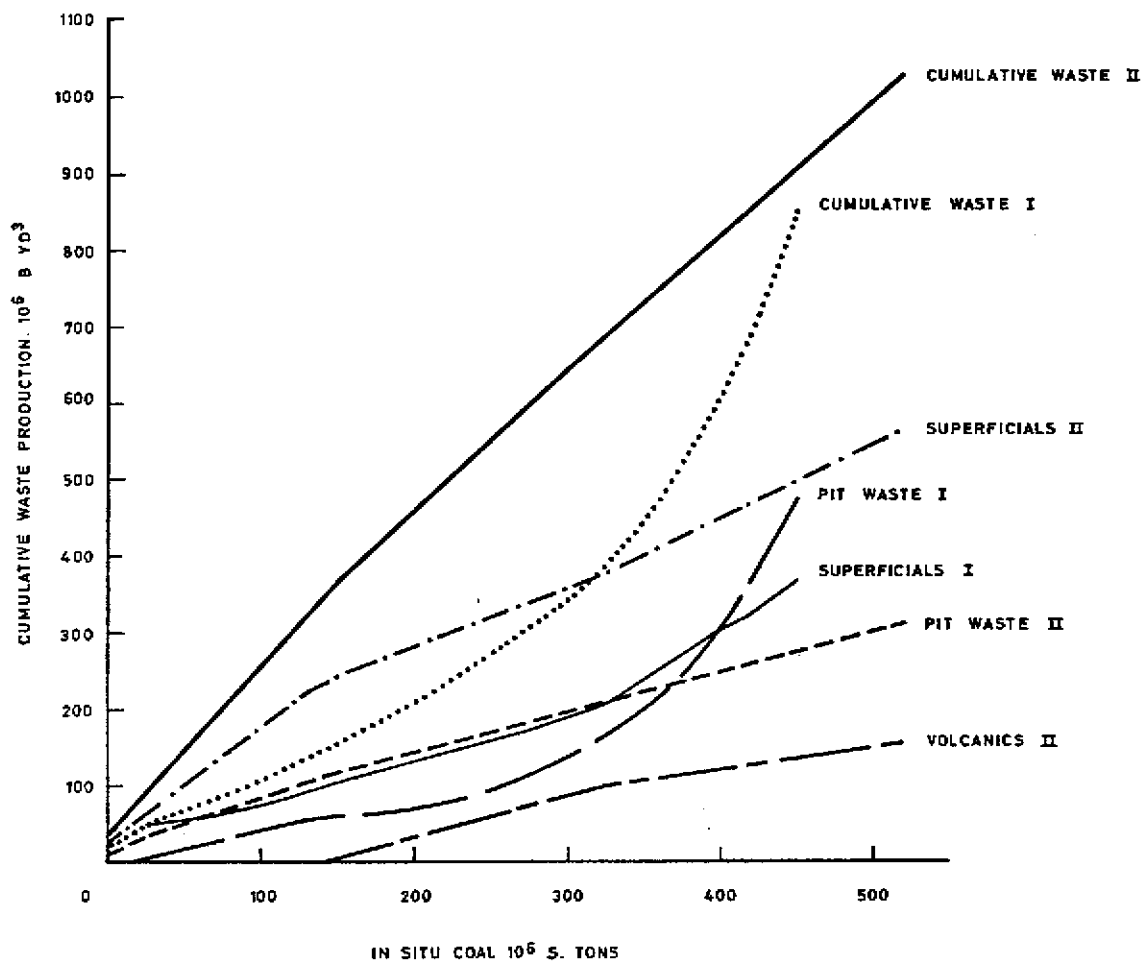
South

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Eng'r J. B	Date June 76	Drg. No. 605/65
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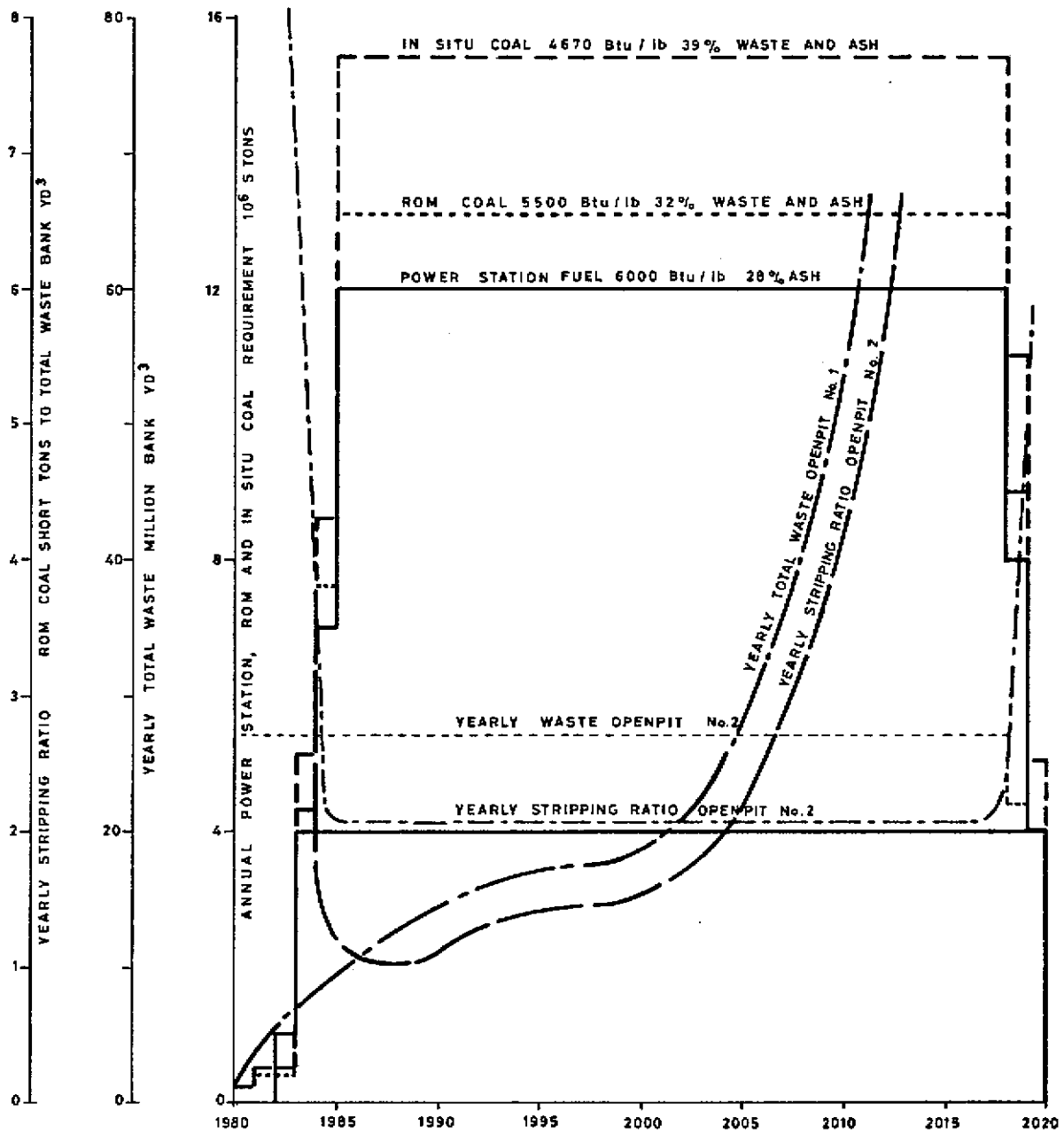
CUMULATIVE WASTE VOLUMES V. CUMULATIVE TONNAGE OF INSITU COAL
(OPENPIT Nos. 1 & 2)



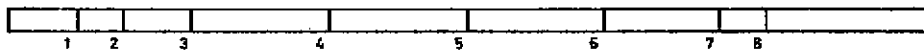
Openpit No. 1 shown to stage B, "600 ft pit"
Openpit No. 2 shown to year 2020, 35years life

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Eng'r. M. A.	Date June 76	Drg. No. 605/67

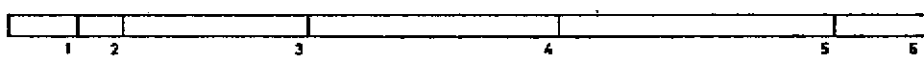
COAL REQUIREMENTS FOR A 3 x 750 MW POWER STATION
 YEARLY WASTE REMOVAL
 YEARLY STRIPPING RATIO
 (OPENPIT Nos. 1 & 2)



OPENPIT No.1
PIT STAGE

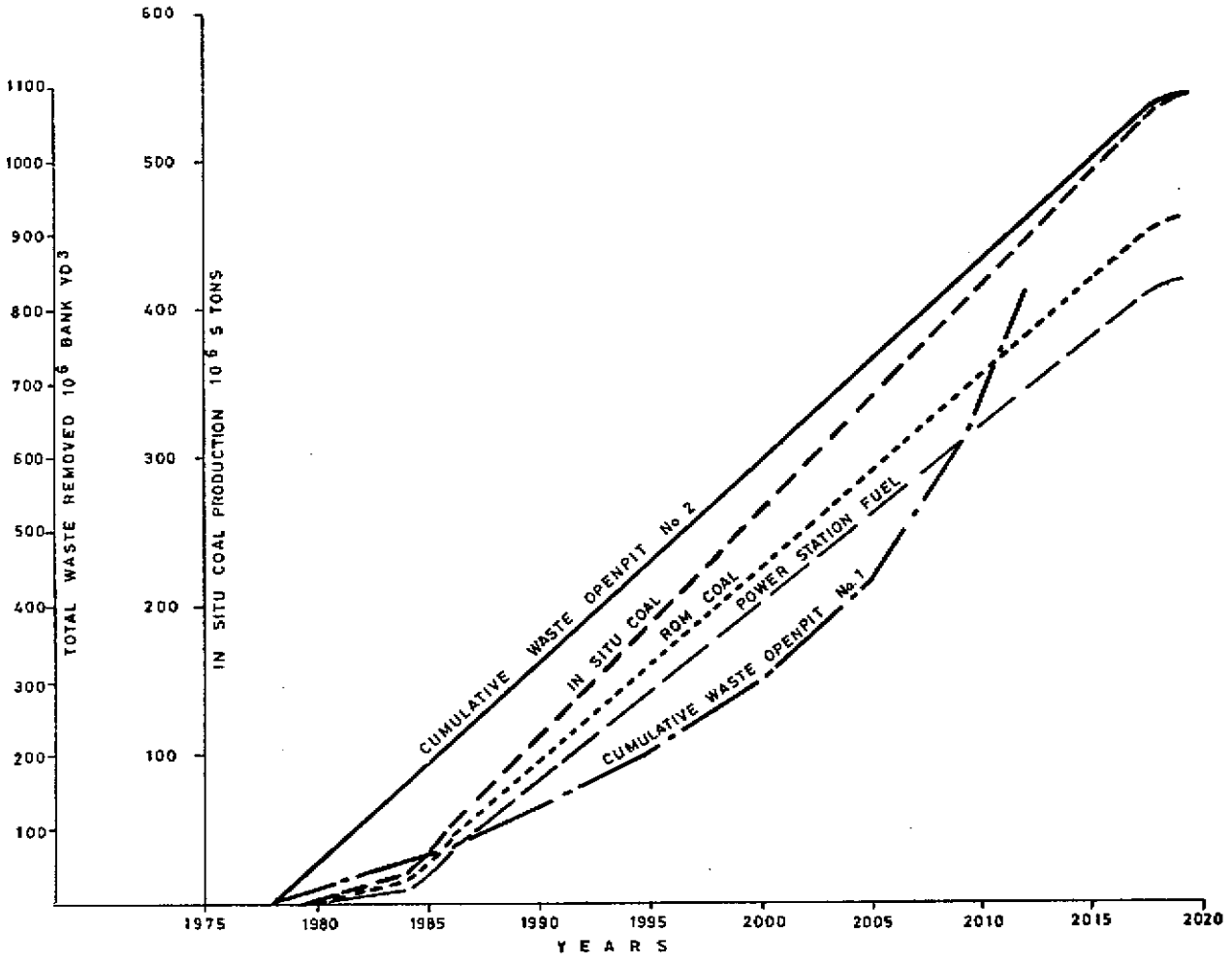


OPENPIT No. 2
PIT STAGE

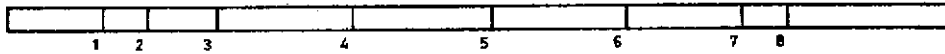


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Eng'r J. B.	Date June 76	Drg. No. 605/68

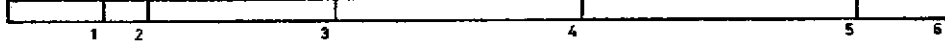
CUMULATIVE COAL REQUIREMENTS FOR A 3x 750 MW POWER STATION
AND CUMULATIVE WASTE MATERIAL
(OPENPIT Nos. 1 & 2)



OPENPIT No 1
PIT STAGE

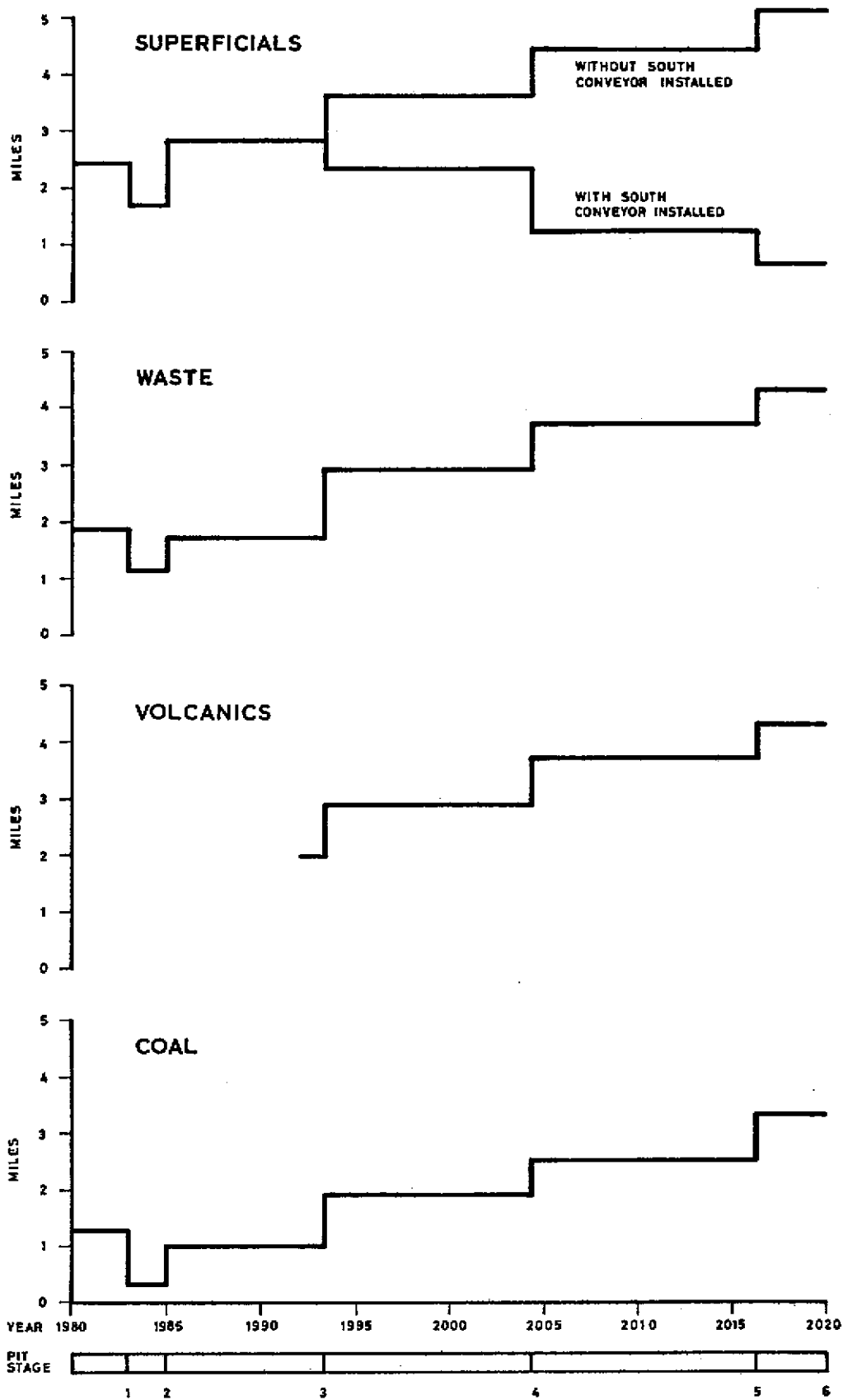


OPENPIT No 2
PIT STAGE



PD-NCB Consultants Ltd., London.		
Eng'r. J. B.	Date June 76	Drg. No. 605/69

MEAN HAULAGE DISTANCES



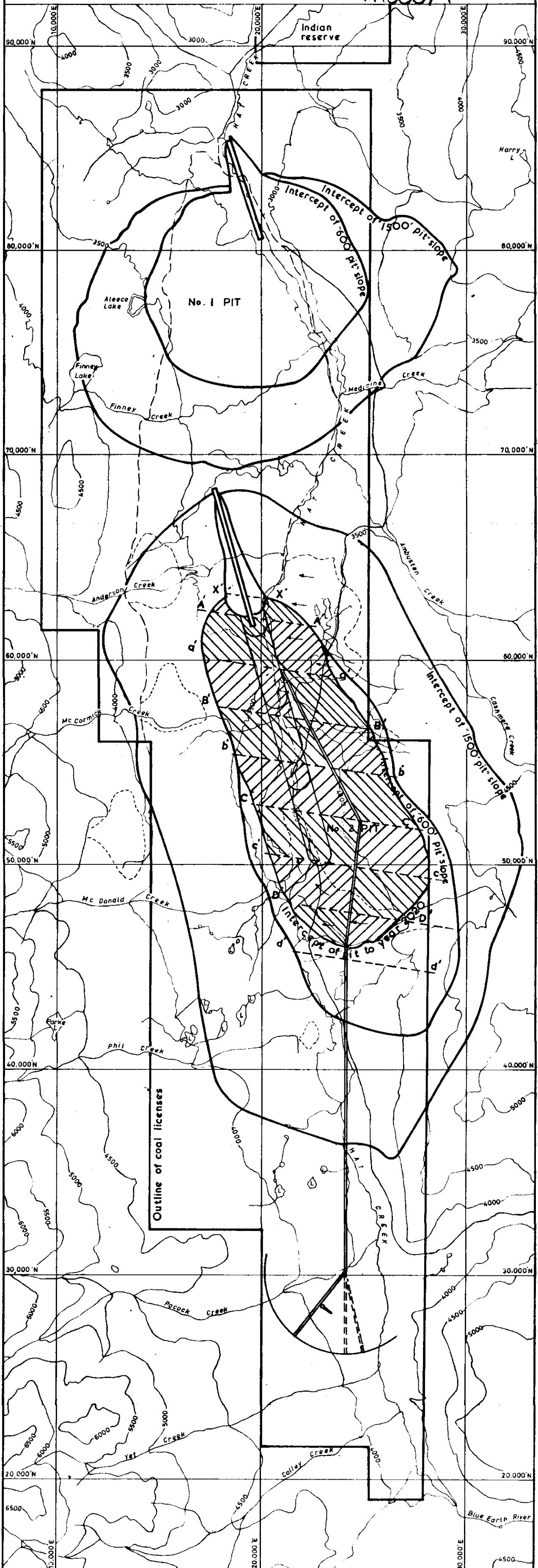
PD-NCB Consultants Ltd. London.		
Eng'r. J. B.	Date June 76	Dwg. No. 605/70

SEQUENCE OF SUPERFICIAL REMOVAL
BY BUCKET WHEEL EXCAVATOR

Scale - 1" = 4000 Feet

21

MOOB/1



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LTD. LONDON

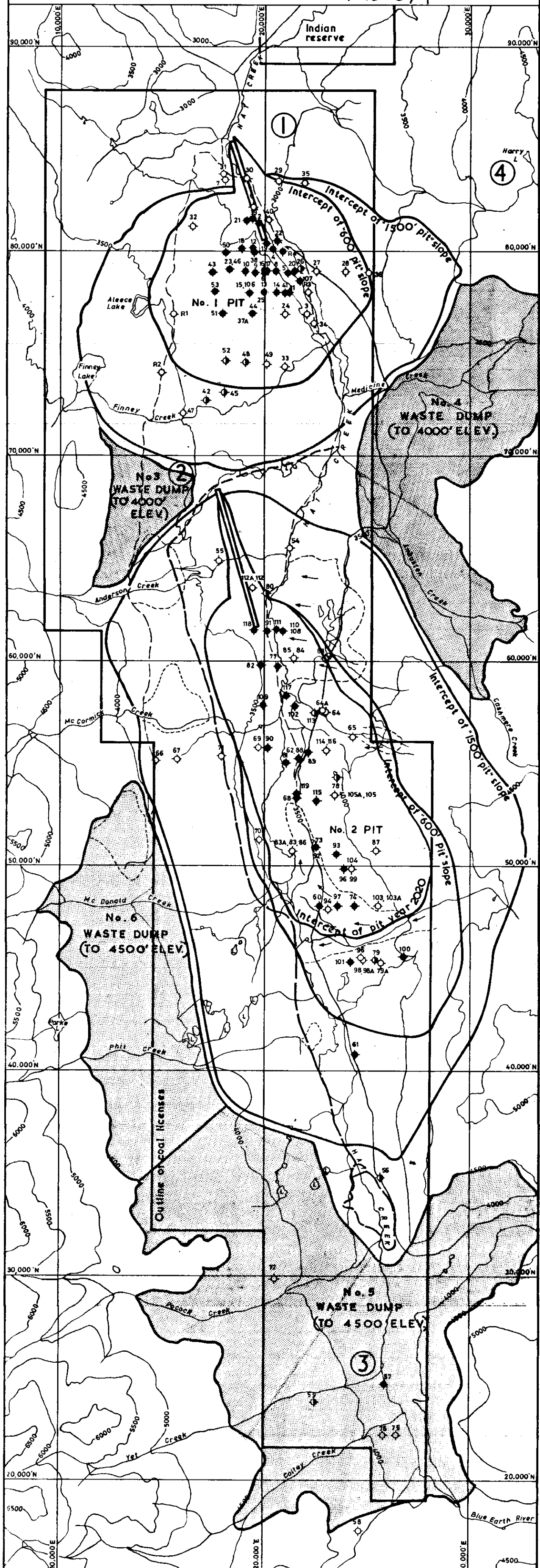
ENG'R K.J. W.	DATE MAY 76	DRG. No. 605/71
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PLAN OF AREAS AVAILABLE FOR SUPERFICIALS,
PIT WASTE AND ASH DISPOSAL

Scale 1" = 4000 Feet

M006/1

22



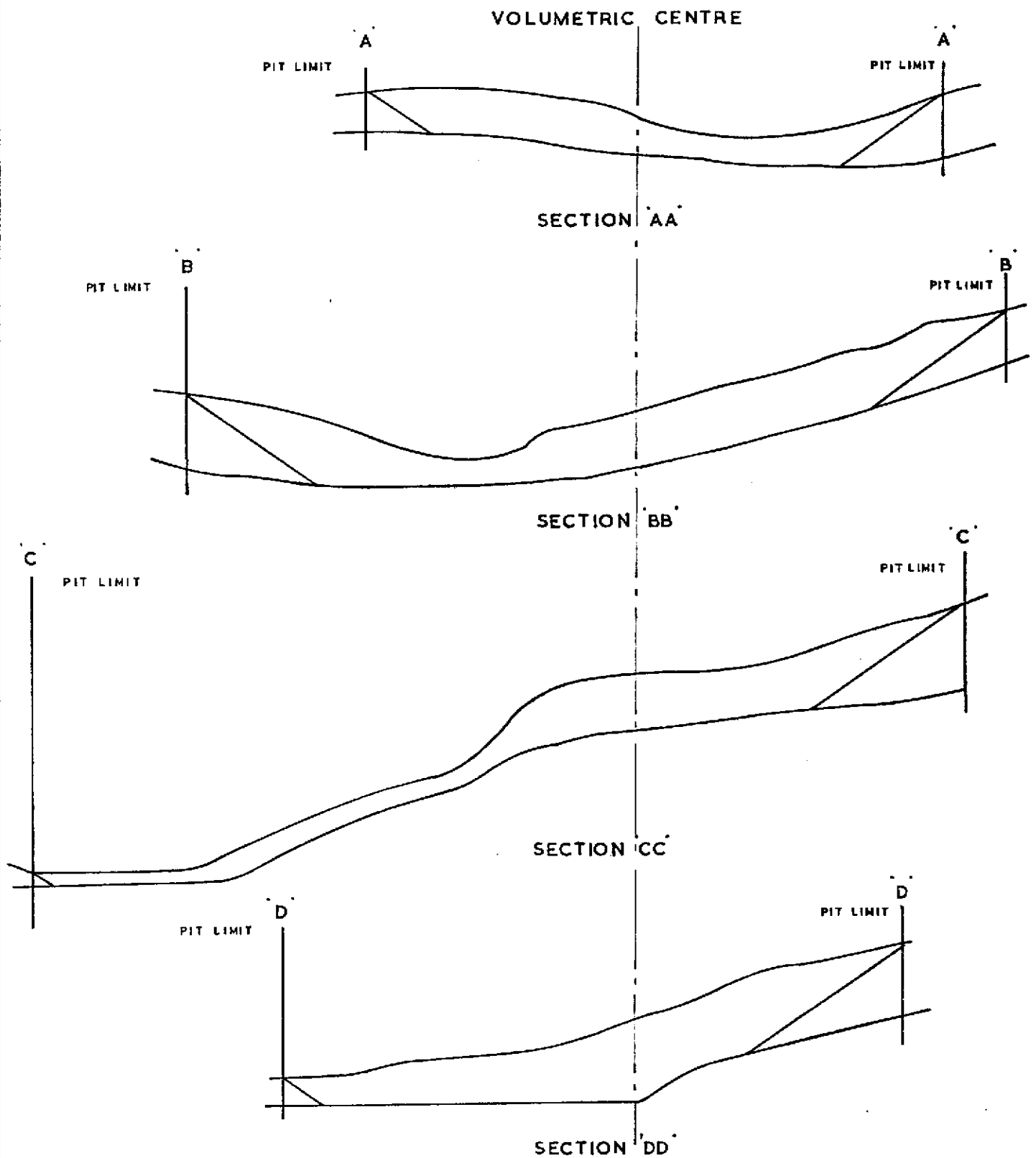
Possible power station sites
shown thus 
Volumes of dumps are summarised
in table XLII

3

PD-NCB CONSULTANTS
LTD. LONDON

ENG'R J. B.	DATE MAY 76	DRG. No. 605/77
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CROSS SECTION OF PIT SUPERFICIALS PIT No. 2



FOR SECTION IDENTIFICATION
SEE PLATE 71

HORIZONTAL SCALE 1" = 1200'
VERTICAL SCALE 1" = 500'

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Eng'r. K.J.W.	Date June 76	Drg. No. 605/72