



RL 8815

203002

FINAL REPORT

This exploration area is located at the western end of the Mt. Nicholas range, west of St Marys. In the period 1984 to 1998 Cornwall Coal Co. N.L. drilled 4 open holes (RDH's 4,5,6, and 7) and 3 cored drill holes (DDH's 8, 9 and 10).

The lithological logs, coal analyses and graphics of those drill holes are included in this report. The exploration was confined to drilling of those holes, all of which were located beside existing forestry tracks or roads. Site clearing was not necessary and there was no rehabilitation necessary upon completion of the drill holes.

The St. Marys 1:50,000 Geology Sheet shows the distribution of the dolerite, dolerite scree and the Triassic sediments containing the coal seams. Faults, generally trending north-south, are likely to exist in the area of exploration, but the location and displacement are unknown due to the extensive cover of dolerite scree. While some seams are able to be correlated (e.g. those in DDH's 9 and 10) with those further east, it is difficult to reliably identify seams due to significant lateral changes in the seam character that are postulated over distances of only several hundred metres.

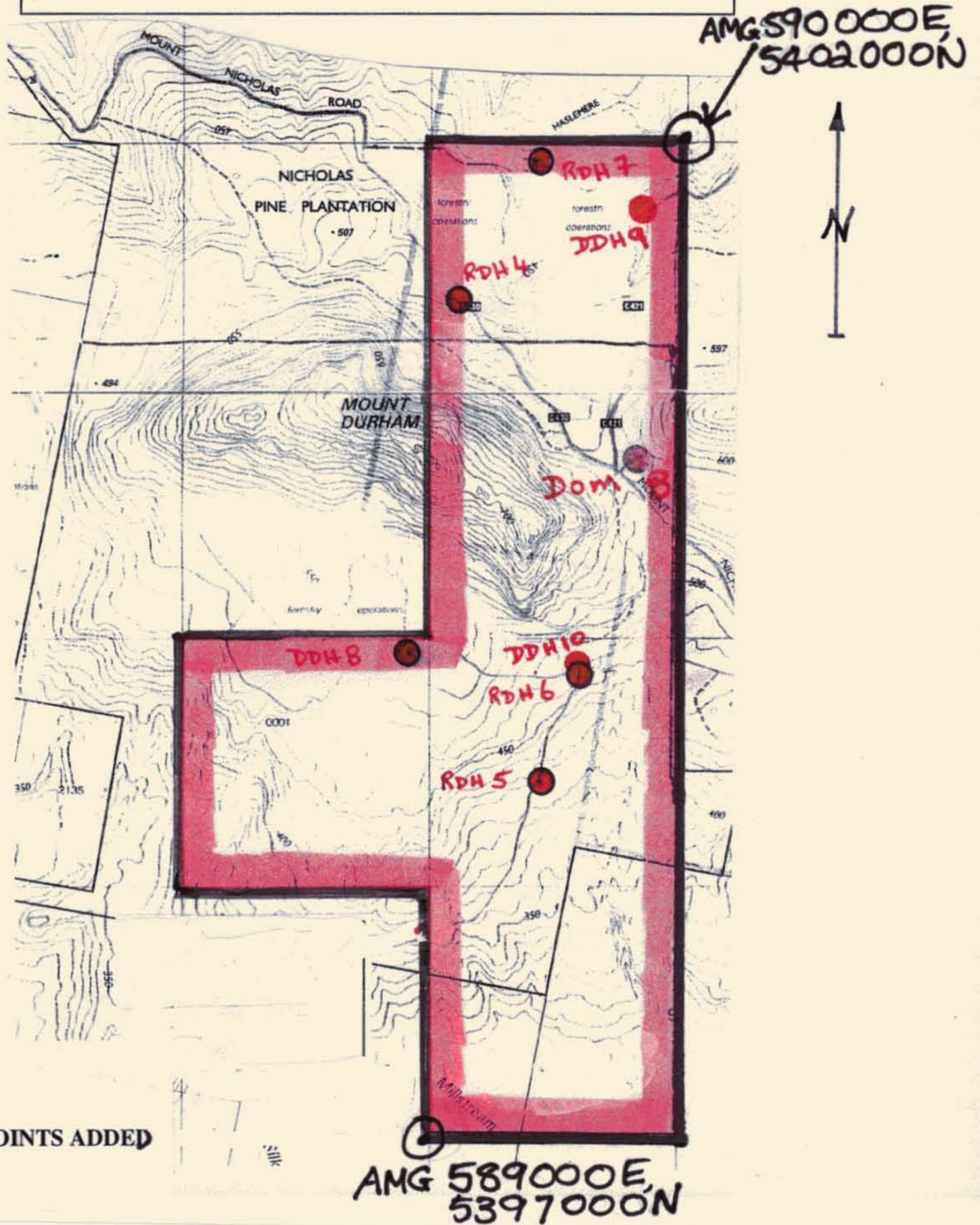
In the holes drilled by Cornwall Coal the details of the coaly intervals are as follows:

Drill Hole	Depth to Top (m)	Thickness (m)	Comments
RDH4	48.16	0.96	? Seam M1
	50.12	0.44	? Seam M2
	53.32	1.20	? Seam M3
	74.92	1.38	? Seam L1
	77.15	0.73	? Seam L2
RDH5	15.95	0.33	
	17.72	0.34	
	20.10	0.20	
DDH8	84.112	0.335	? Seam L1
	87.141	1.425	? Seam L2; 35% Ash
	108.705	1.931	? Seam L3
DDH9	104.85	2.01	L1 Seam; 45.4% Ash
	109.74	1.06	L2 Seam; 32.4% Ash
DDH10	38.50	1.02	L1 Seam
	40.74	1.84	L2 Seam; 34.0% Ash
D.O.M. 8	123.99	1.76	L1 Seam; 38.1% Ash
	126.70	2.18	L2 Seam; 26.7% Ash

203003

5 cm

CORNWALL COAL CO. N.L.
LOCATION PLAN
RL8815
MT DURHAM
SCALE 1:25,000
NOVEMBER 1998



AMG REFERENCE POINTS ADDED

The Department of Mines drill holes D.O.M. 8, was drilled prior to 1980 and is located just to the west of the mining lease currently held by the Cornwall Coal Co. N.L.

Further information of the coal resources in the Mt Nicholas Coalfield is to be found in Bulletin 64, The Coal Resources of Tasmania, a comprehensive collation of data prepared by C.A. Bacon in 1991.

203004

203005

APPENDIX

CORNWALL COAL CO. N.L.

RL 8815

DRILL LOGS

RDH's 4, 5, 6 and 7

DDH's 8, 9 and 10

203007

MT NICHOLAS R.D.H. 4

	<u>Estimated Thickness</u> (m)	<u>Estimated Depth to Floor</u> (m)	<u>Remarks</u>
CLAYSTONE, grey	0.95	77.15	
<u>COAL</u> , dull	0.73	77.88	
CLAYSTONE, grey	6.12	84.00	
CLAYSTONE, brown to black, carbonaceous	4.00	88.00	

BASE OF HOLE

203008

MT NICHOLAS R.D.H. 5

<u>Area:</u>	E.L. 50/82; Mt Nicholas	<u>Location:</u>	E 589 400
<u>Drilled by:</u>	H.J. Stacpoole (Foxmobile 80)	(Approx. AMG Co-ords)	N 5398 400
<u>Logged by:</u>	J.H. Bryan	<u>Collar RL:</u>	410 m (approx)
<u>Date Drilled:</u>	February 1984	<u>Total Depth:</u>	34.0 m

	<u>Estimated Thickness (m)</u>	<u>Estimated Depth to Floor (m)</u>	<u>Remarks</u>
SCREE, dolerite boulders	8.00	8.00	PW casing to 12.0 m
SANDSTONE, grey with minor claystone bands	7.95	15.95	
<u>COAL</u> , dull to stony	0.33	16.28	
CLAYSTONE	1.44	17.72	
<u>COAL</u> , dull	0.34	18.06	
CLAYSTONE AND SILTSTONE	2.04	20.10	
<u>COAL</u> , dull	0.20	20.30	
CLAYSTONE, carbonaceous in part	13.70	34.00	

BASE OF HOLE

203011

CORNWALL COAL D.D.H. CC 8

Break O'Day

1:100 000

Sheet 8514

Logged By: C.F.R. ParburyDrilled By: Assoc. Diamond

Drillers

Commenced: 7.1.80Location: Mt DurhamA.M.G. Co-ordinates: E 588 900

N 598 950

Collar R.L.: 530 m a.s.l. approx.Total Depth: 137 mFor: Cornwall Coal CompanyCompleted: 21.1.80

	<u>Estimated Thickness (m)</u>	<u>Estimated Depth to Base of Stratum (m)</u>	<u>Remarks</u>
SCREE, dolerite fine to medium, boulders in matrix of red clay, broken	46.600	46.600	
SANDSTONE, light grey, fine to medium, quartz-lithic, sub- angular to subrounded, moderately to well sorted, well cemented, well bedded, carbonaceous material defines parallel to wavy laminations, carbonaceous to coaly fragments sporadic throughout, minor claystone clasts flattened in plane of bedding, massive to thickly bedded	37.512	84.112	

CORNWALL COAL CC D.D.H. 8

	<u>Estimated Thickness</u> (m)	<u>Estimated Depth to Base of Stratum</u> (m)	<u>Remarks</u>
<u>COAL</u> , dull with minor bright bands, abrupt upper and lower bounding surfaces	0.335	84.447	
SANDSTONE, mid to light grey, fine to medium, lithic, well cemented, massive	0.953	85.400	
CLAYSTONE, dark grey, siltstone lamellae throughout, minor plant fossils along partings, well bedded, thin	1.741	87.141	
<u>COAL</u> , dull, badly broken	0.220	87.361)
)
CLAYSTONE, brown grey	0.062	87.423)
)
<u>COAL</u> , dull, badly broken	0.510	87.933)
)
CLAYSTONE, brown grey	0.030	87.963)
)
<u>COAL</u> , dull	0.050	88.013)
) Thickness:
CLAYSTONE, brown grey, broken	0.040	88.053) 1.425m
)
<u>COAL</u> , dull	0.120	88.173)
)
CLAYSTONE, dark brown grey	0.028	88.201)
)
<u>COAL</u> , dull, broken	0.365	88.566)
)
SILTSTONE, brown grey, abrupt upper bounding surface with overlying coal	0.270	88.836	

203013

CORNWALL COAL CC D.D.H. 8

	<u>Estimated Thickness</u> (m)	<u>Estimated Depth to Base of Stratum</u> (m)	<u>Remarks</u>
SANDSTONE, light grey, fine to medium, quartz lithic, moderately well sorted, well cemented, thickly bedded, slabby to massive, minor laminations of carbonaceous material parallel to wavy, rip up clasts of carbonaceous claystone irregular to rounded at 100.8 m, fracture infilled with pyrite subparallel to LCA at 107 m wisps and lenses of rip up clasts of carbonaceous claystone below 107 m	19.469	108.305	
CLAYSTONE, mid grey, laminated with siltstone, abrupt upper bounding surface, graded lower bounding surface	0.400	108.705	
CLAYSTONE, coaly	0.295	109.000	
CLAYSTONE, dark grey, carbonaceous, fine sandstone throughout	0.430	109.430	
CLAYSTONE, coaly, hard	0.180	109.610	
CLAYSTONE, cream grey, fissile	0.012	109.622	
<u>COAL</u> , stony	0.407	110.029	

203014

CORNWALL COAL CC D.D.H. 8

	<u>Estimated Thickness (m)</u>	<u>Estimated Depth to Base of Stratum (m)</u>	<u>Remarks</u>
CLAYSTONE, dark grey, carbonaceous to coaly, sandstone fine sporadic throughout	0.300	110.329	
<u>COAL</u> , dull with minor bright bands, minor claystone pennybands	0.307	110.636	
SILTSTONE, carbonaceous at top, mid grey, pyrite blebs at top, wavy laminations, minor disturbed bedding	0.792	111.428	
SANDSTONE, mid grey, fine, minor plant fossil impressions, phases of rip up clasts of carbonaceous claystone, clasts flattened in plane of bedding, phases up to 0.4 m thick, moderately well bedded, six fractures inclined 45° to LCA, fractures planar regular, minor calcite infilling fractures, wisps and lenses of claystone exhibit post lithification deformation microfaulting, minor slicken- siding along fracture surfaces	9.648	121.076	

203015

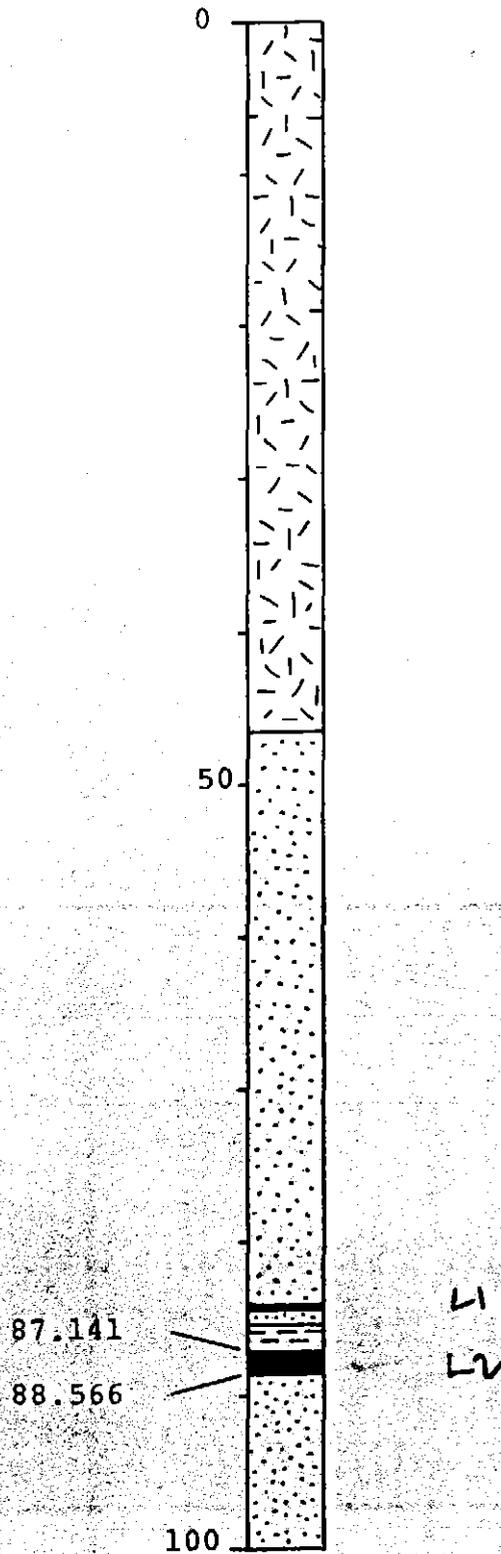
CORNWALL COAL CC D.D.H. 8

	<u>Estimated Thickness</u> (m)	<u>Estimated Depth to Base of Stratum</u> (m)	<u>Remarks</u>
CLAYSTONE, brown buff, intra-formational clasts of same colour throughout, well bedded, slabby to flaggy	1.410	122.486	
CLAYSTONE, brown black, carbonaceous, coaly in part	0.118	122.604	
CLAYSTONE, grey brown, massive, graded upper and lower bounding surface	0.190	122.794	
<u>COAL</u> , dull with minor bright bands	0.350	123.144	
SILTSTONE, brown grey, sandstone phases throughout	0.410	123.554	
SANDSTONE, light to mid grey, brown at top 1 m, medium, lithic, moderately to poorly sorted, well bedded, slabby to flaggy, poorly cemented in part, below 130 m well cemented and massive	13.446	137.000	

BASE OF HOLE

203016

CORNWALL COAL MT DURHAM D.D.H. 8



Prepared by
MCELROY BRYAN & ASSOCIATES PTY LTD
for

CORNWALL COAL COMPANY

DRAWN BY C.F.R.P. DATE JANUARY 1980

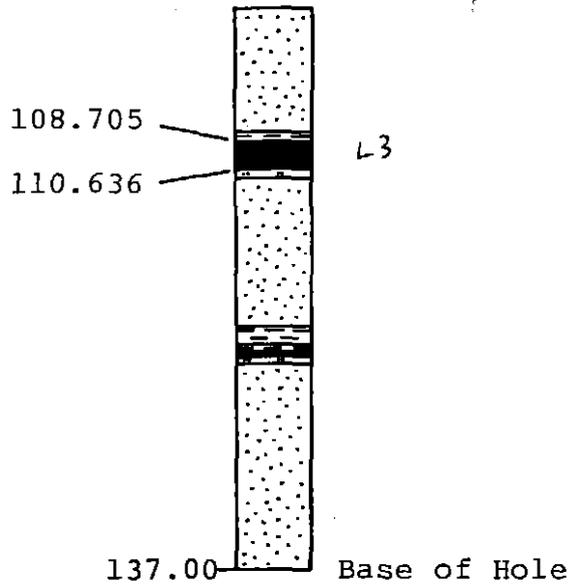
GRAPHIC SECTION

SCALE 1:500

PAGE 1 of 2

5 cm

203017



5 cm

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MCELROY BRYAN & ASSOCIATES PTY LTD
for

CORNWALL COAL COMPANY

DRAWN BY C.F.R.P. DATE JANUARY 1980

GRAPHIC SECTION

SCALE 1:500

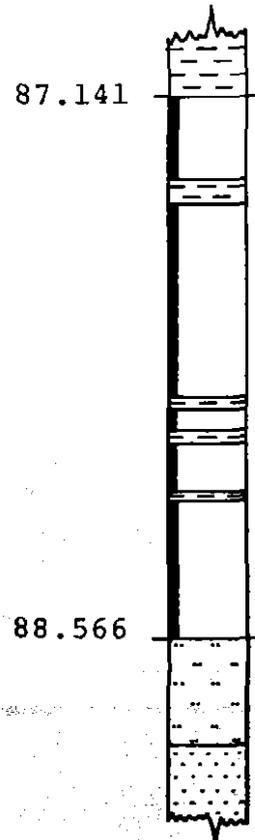
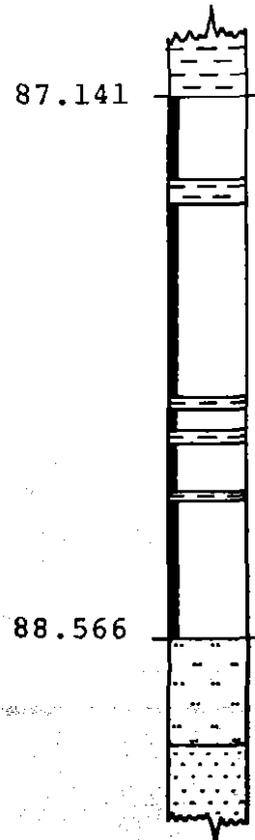
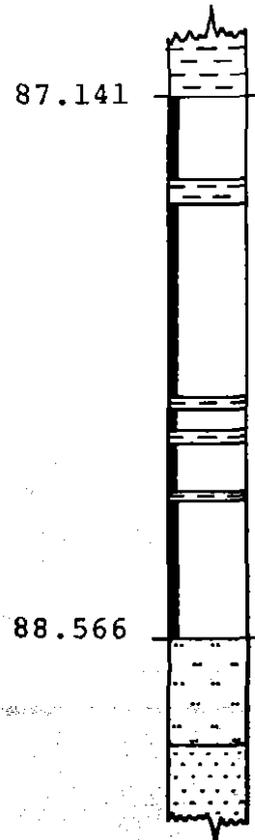
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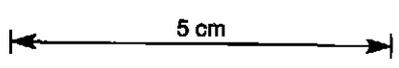
203018

CORNWALL COAL MT DURHAM D.D.H. 8

FENTON SEAM

ASH %
CUMULATIVE
FROM FLOOR

GRAPHIC LOG (DEPTHS IN METRES)	PLY No.	PLY THICKNESS (m)	WT %	ASH %	C.S. No.	INCL. BANDS	EXCL. BANDS
 <p>87.141</p>							
 <p>88.566</p>	801	1.425		35.0			
							



Prepared by
M'ELROY BRYAN & ASSOCIATES PTY LTD
for

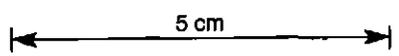
COAL SECTION

DRAWN BY C.F.R.P. DATE JANUARY 1980

SCALE 1:20

PAGE 1 of 1

GRAPHIC LOG (DEPTHS IN METRES)	PLY No.	PLY THICKNESS (m)	WT %	ASH %	C.S. No.	INCL. BANDS	EXCL. BANDS
<p>108.705</p> <p>0.295m</p> <p>0.430m</p> <p>0.180m</p> <p>0.012m</p> <p>0.407m</p> <p>0.300m</p> <p>0.307m</p> <p>110.636</p>							
		1.931	not sampled				



Prepared by
M'ELROY BRYAN & ASSOCIATES PTY LTD
for
CORNWALL COAL COMPANY
DRAWN BY C.F.R.P. DATE JANUARY 1980

COAL SECTION

SCALE 1:20

PAGE 1 of 1



SGS Australia Pty. Ltd.
 formerly
General Superintendence Company Pty. Ltd.

Sydney

74 McEvoy Street,
 Alexandria, N.S.W.,
 P.O. Box 163, Redfern, 2016
 Tel: ~~699-8225~~ 699-7625
 Telex: AA 22395
 Cables: Supervise

Client : Cornwall Coal Company
 c/- McElroy Bryan &
 Associates Pty Ltd
 63 Alfred Street,
 MILSONS POINT NSW 2061

Report No : Lc/2469
 Date Rec'd : 29.1.80
 Date Out : 7.2.80

Your ref.:

Our ref.:

Sample Reference : 2 Samples from Fingal Valley Tasmania

Identified as: Mt Durham DDR 3
 Sample 301

Sample Processing; Mass of core was taken 'as received'.
 It was hand crushed to pass a 20mm screen and a raw
 coal sample split out.

The raw coal samples were tested for proximate analysis
 and relative density.

Samples were dry screened at 0.5mm.

The 20 x 0.5mm fraction was then float/sink separated
 at 1.60R.D.

After air-drying each gravity fraction was weighed and
 crushed to minus 5mm.

The 20mm x 0.5mm float 1.60, sink 1.60 and minus 0.5mm
 fraction were analysed for ash and R.D. (no R.D. on minus
 0.5mm). The float 1.60 fraction was also analysed for
 proximate analysis, sulphur, specific energy, crucible
 swelling number.

Results: Refer to Tables 1 - 5 Sample 301

David Wilson

 David Wilson
 Chief Chemist - Sydney Coal
 Laboratory

7.2.80



Lc/2469

FINGAL VALLEY, TASMANIA
CORNWALL COAL CO.
MT. DUNHAM DRIVE
SAMPLE 501

Mass (as received) 2.892 kg
Relative Density 1.73

TABLE 1: CRUSHING AND DRY SCREENING AT 0.5mm

	Mass %
20mm x 0.5mm	95.0
Minus 0.5mm	5.0

TABLE 2: RAW COAL ANALYSIS

Moisture %	5.1
Ash %	35.0
Volatile Matter %	20.6
Fixed Carbon %	39.3

TABLE 3: FLOAT/SINK ANALYSIS OF 20mm x 0.5mm MATERIAL

Relative Density	FRACTIONAL		CUMULATIVE	
	Mass %	Ash %	Mass %	Ash %
Floats 1.60	53.2	13.3	53.2	13.8
Sinks 1.60	41.8	54.8	100.0	33.8
Plus 0.5mm (By calculation)	95.0	33.8	95.0	33.8
Minus 0.5mm (By analysis)	5.0	47.2	100.0	34.6

TABLE 4: ANALYSIS OF 20mm x 0.5mm FLOATS 1.60

Moisture %	5.0
Ash %	13.3
Volatile Matter %	25.5
Fixed Carbon %	50.7
Sulphur %	0.34
Crucible Swell Number	0
Specific Energy MJ/kg	24.74
Relative Density	1.48

TABLE 5: ANALYSIS OF 20mm x 0.5mm SINKS 1.60

Relative Density	1.92
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This laboratory is registered by the National Association of Testing Authorities, Australia. The results reported herein have been performed in accordance with the terms of registration.

Am

CORNWALL COAL MT DURHAM DDH9

Location: R.L.8815

Logged by: J. Bryan

AMG Co-ordinates: 589803.4E

Drilled by: Stacpoole Drilling

5400462.1N

(Wayne Baldy)

Collar R.L.: 549.1m

Commenced: 10.2.98

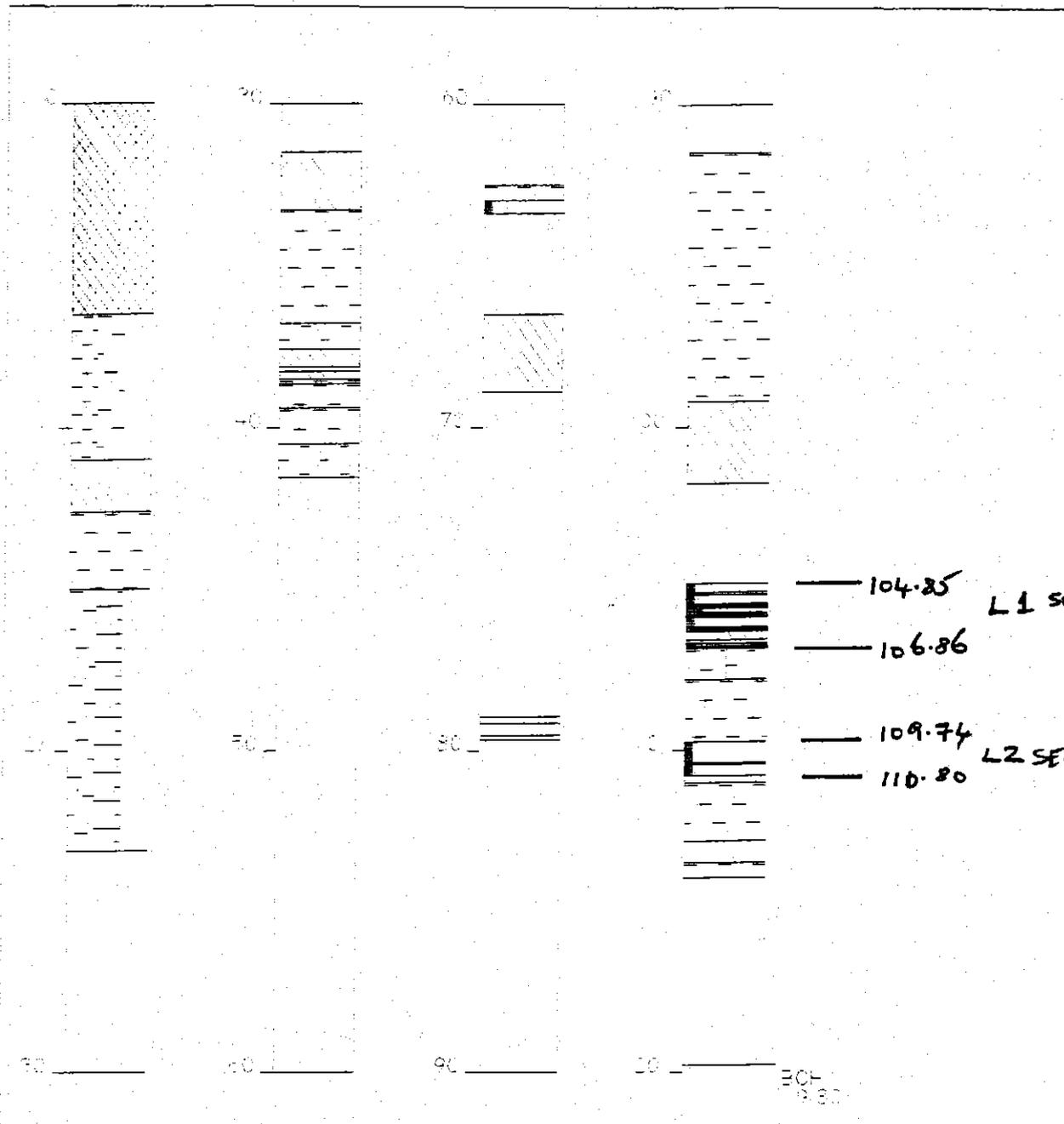
Total Depth: 119.80m

Completed: 13.2.98

	Estimated Thickness (m)	Estimated Depth to Base of Stratum (m)	Remarks
SOIL, SCREE (Not cored)	6.50	6.50	
CLAYSTONE/MUDSTONE/SANDSTONE, weathered	4.50	11.00	
CLAYSTONE, coaly/carbonaceous, black, coaly mudstone, some tuffaceous claystone interbeds	1.60	12.60	
MUDSTONE, grey, hard, grading to partly weathered grey/brown mudstone	2.40	15.00	
MUDSTONE/SILTSTONE/SANDSTONE, interbedded, hard, grey (sandstone and siltstone), soft and weak mudstone towards top	8.10	23.10	
SANDSTONE, grey, lithic, moderate strength, fine grained. Core badly broken at about 30.5m (? Fault) core loss of 1.20m hereabouts.	8.40	31.50	
MUDSTONE, light grey at top grading to dark grey and black; carbonaceous to coaly in part	1.80	33.30	
MUDSTONE, light grey, brecciated, soft, core broken, some core loss	3.50	36.80	
SILTSTONE, grey, hard - grading to mudstone	0.80	37.60	
MUDSTONE, black, carbonaceous	0.55	38.15	
SANDSTONE, grey, fine, lithic	0.13	38.28	
MUDSTONE, laminated, dark brown, carbonaceous	0.24	38.52	
MUDSTONE, tuffaceous? grey/green, soft	0.13	38.65	

	Estimated Thickness (m)	Estimated Depth to Base of Stratum (m)	Remarks
MUDSTONE, laminated, dark brown, microfaulting)	0.75	39.40	
MUDSTONE, grey	1.10	40.50	
SILTSTONE, grey	1.05	41.55	
SANDSTONE, grey, lithic, fine grained at top grading to medium by 43m. Numerous bedding plane breaks. Occasional mudstone bands and coaly fragments, moderate strength, 3 to 10 FPM	20.95	62.50	
MUDSTONE, dark grey, sheared, core broken	0.50	63.00	
COAL, dull, sheared with very thin calcite veins subvertical contact with sandstone below	0.40	63.40	
SANDSTONE, grey, lithic, fine/medium grained; irregular sheared contact at base	3.10	66.50	
MUDSTONE, black, coaly to carbonaceous, relatively soft, sheared; grading to carbonaceous siltstone then to sheared grey mudstone. Subvertical (70°) contact at 68m	2.40	68.90	
SANDSTONE, grey, lithic, fine/medium, hard, massive towards base (0-2 FPM) (moderate to strong)	10.05	78.95	
MUDSTONE, coaly, black/dark brown	0.20	79.15	
SANDSTONE, grey, lithic, medium	0.40	79.55	
MUDSTONE, coaly, dark brown	0.13	79.68	
SANDSTONE, grey, lithic, medium, massive, strong	11.82	91.50	
MUDSTONE, grey/green to grey, hard, laminated in part, some siltstone interbeds, relatively weak	7.70	99.20	
MUDSTONE, black carbonaceous	2.55	101.75	
SANDSTONE, lithic, grey, fine/medium, massive, moderately strong	3.10	104.85	
COAL, dull	0.27	105.12	
MUDSTONE, dark brown/black, carbonaceous	0.06	105.18	
CLAYSTONE, dark grey, hard (Bluestone band)	0.03	105.21	
COAL, dull	0.26	105.47	
MUDSTONE, dark grey, carbonaceous	0.03	105.50	
COAL, dull	0.04	105.54	

	Estimated Thickness (m)	Estimated Depth to Base of Stratum (m)	Remarks
CLAYSTONE, light grey, hard	0.01	105.55	
COAL, dull	0.05	105.60	
COAL, dull with minor bright bands	0.15	105.75	
CLAYSTONE, light grey 60% MUDSTONE, black 40%	0.04	105.79	
COAL, dull	0.06	105.85	
CLAYSTONE, light grey	0.01	105.86	
COAL, dull	0.01	105.87	
CLAYSTONE, tuffaceous, light brown, hard	0.02	105.89	
COAL, dull	0.29	106.18	
CLAYSTONE, tuffaceous, light brown, hard	0.04	106.22	
COAL, dull	0.03	106.25	
COAL, bright with minor dull bands	0.05	106.30	
CLAYSTONE, dark grey, carbonaceous	0.04	106.34	
MUDSTONE, black, carbonaceous to coaly	0.24	106.58	
COAL, dull to stony	0.11	106.69	
CLAYSTONE, dark grey, hard	0.01	106.70	
COAL, dull	0.08	106.78	
CLAYSTONE, tuffaceous, light brown	0.03	106.81	
COAL, dull	0.03	106.84	
CLAYSTONE, light grey	0.01	106.85	
COAL, dull	0.01	106.86	
MUDSTONE & SILTSTONE (interbedded), grey, relatively weak	0.94	107.80	
MUDSTONE, grey to grey/green, relatively weak	1.94	109.74	
COAL, dull, slickensided, core broken, calcite	0.65	110.39	
CLAYSTONE, light grey, waxy, ?tuffaceous	0.05	110.44	
COAL, dull, core broken, calcite on cleat	0.36	110.80	
MUDSTONE/CLAYSTONE, dark brown, carbonaceous, coaly in part	0.22	111.02	
MUDSTONE, grey, laminated	1.80	112.82	
SANDSTONE, grey, lithic, fine grained	0.67	113.49	
MUDSTONE, grey, laminated	0.48	113.97	
SANDSTONE, grey, lithic, fine to medium, massive, relatively strong unit	5.83	119.80	T.D. 119.80



- COAL (Dark)
- COAL (Light)
- SILTSTONE
- SANDSTONE
- MUDSTONE
- CLAYSTONE
- NON-COAL

- COAL (Dark)
- COAL (Light)

CORNWALL COAL

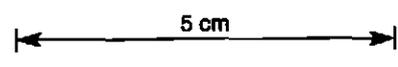
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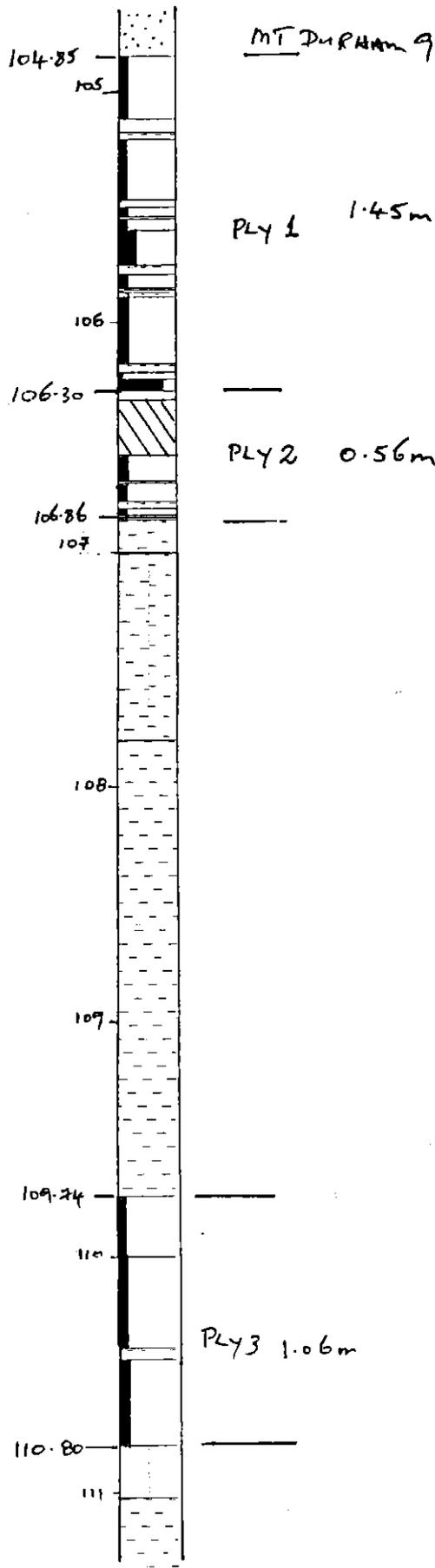
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RECORD BY: MBGS

LOGGED BY: Bryan

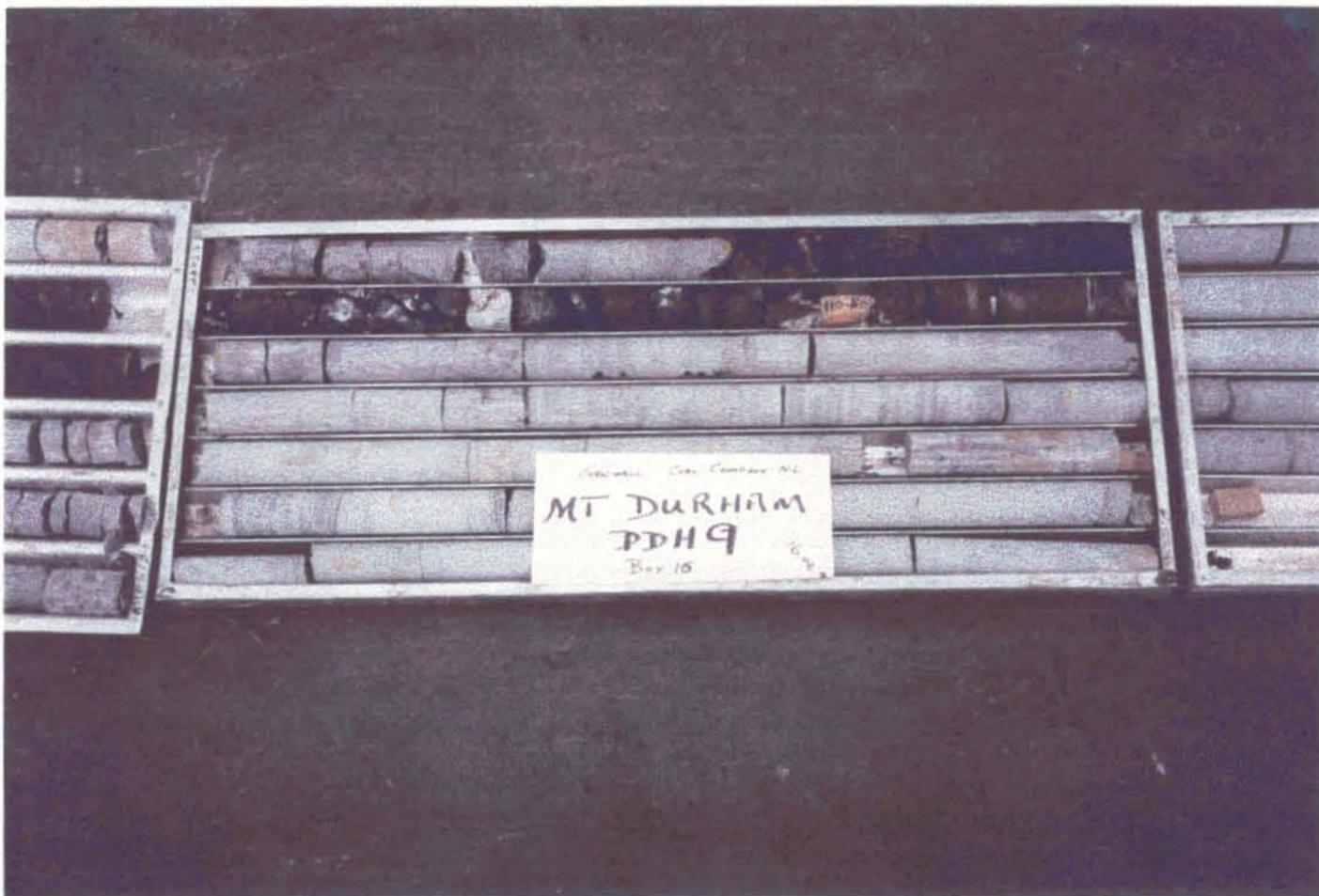
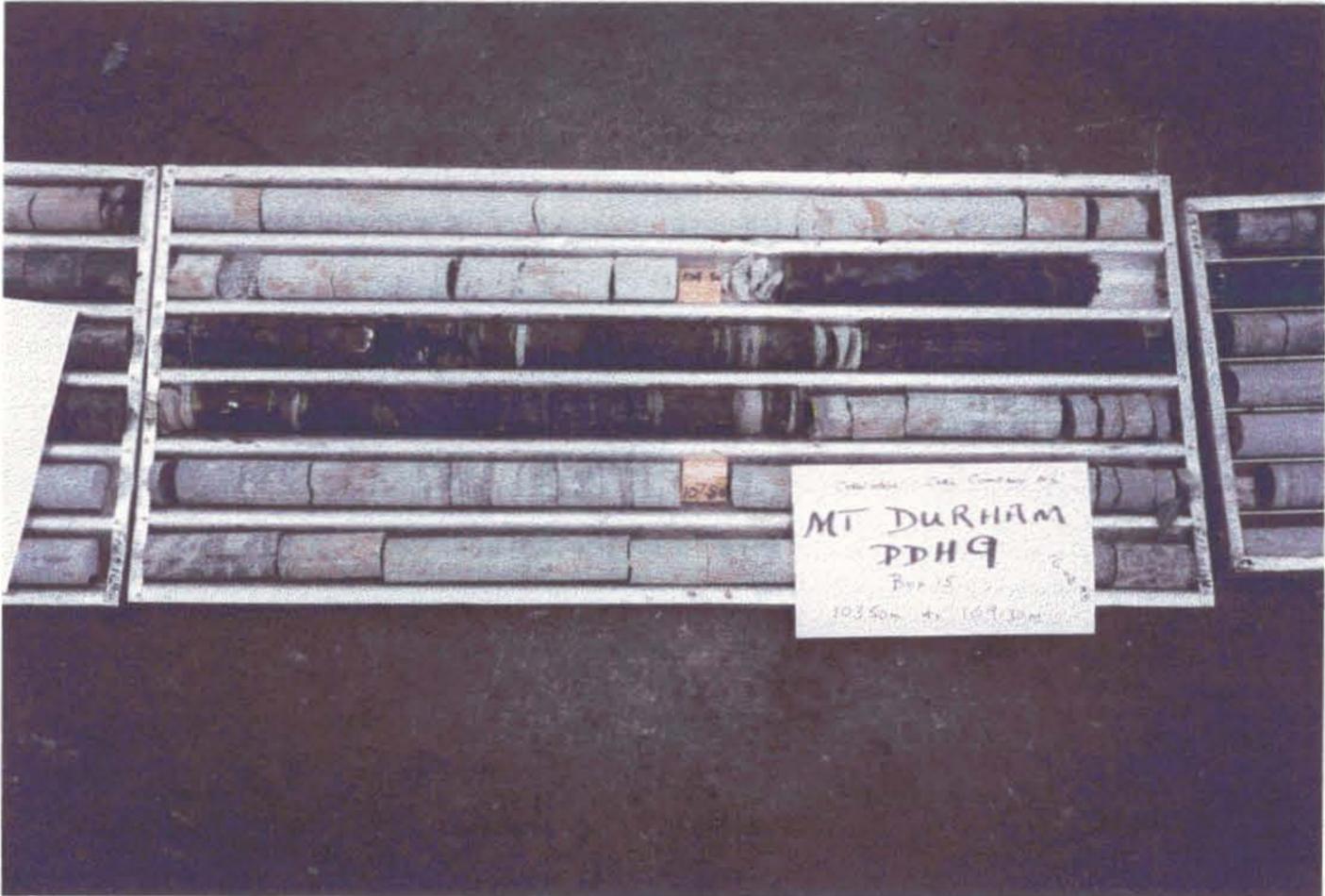
Scale 1:100





CORNWALL COAL COMPANY N.L.
MT DURHAM DDH 9

203027





CLIENT : CORNWALL COAL COMPANY

REF : W4204

DESCRIPTION : CORNWALL COAL BORE CORE SAMPLES

REPORTED TO : Mr John Bryan

Mt. DURHAM DDH 9 - Ply 1 and Ply 2

As received : Ply 1 1535 gm
 Ply 2 3347 gm

RAW COAL ANALYSIS

Sample Number	:	19284
Relative density	:	1.77
Moisture *	(Air dried basis)	: 3.8 %
Ash	(Air dried basis)	: 45.4 %
Volatile Matter	(Air dried basis)	: 19.2 %
Total Sulphur	(Air dried basis)	: 0.42 %
Specific Energy	(Air dried basis)	: 19.42 MJ/kg
Specific Energy	(Dry ash free basis)	: 38.23 MJ/kg
Gross Calorific Value	(Air dried basis)	: 4638 kcal / kg
Gross Calorific Value	(Dry ash free basis)	: 9131 kcal / kg

SIZE DISTRIBUTION

Size Fraction mm sq. aperture	Mass %	Cum. Passing Mass %	Ash %
- 19.0 + 0.5 ww	94.7	100.0	
- 0.5 ww	5.3	5.3	43.2



CLIENT : CORNWALL COAL COMPANY

REF : W4204

DESCRIPTION : CORNWALL COAL BORE CORE SAMPLES

REPORTED TO : Mr John Bryan

Mt. DURHAM DDH 9 - Ply 1 and Ply 2

FLOAT SINK ANALYSIS

Size Fraction : - 19.0 + 0.5 mm ww.

Proportion of Total Sample : 94.7 %

Relative Density Fraction	Fractional Mass %	Ash % (a.d.)	Cumulative Mass %	Ash % (a.d.)	Sample Number
F1.40	21.5	14.2	21.5	14.2	19207
S1.40 - F1.50	10.3	22.8	31.8	17.0	19208
S1.50 - F1.60	9.1	31.5	40.9	20.2	19209
S1.60 - F1.70	8.0	39.0	48.9	23.3	19210
S1.70	51.1	66.3	100.0	45.3	19211

Analysed in accordance with AS1038 part 3 and AS4156 part 1.

Mt. DURHAM DDH 9 Ply 1 & Ply2 SIMULATED PRODUCT

Sample Number	:	19291
Yield (Calculated)	(Air dried basis)	: 46.3 %
Moisture *	(Air dried basis)	: 3.6 %
Ash	(Air dried basis)	: 23.6 %
Volatile Matter	(Air dried basis)	: 24.6 %
Total Sulphur	(Air dried basis)	: 0.42 %
Specific Energy	(Air dried basis)	: 23.67 MJ/kg
Specific Energy	(Dry ash free basis)	: 32.51 MJ/kg
Gross Calorific Value	(Air dried basis)	: 5654 kcal / kg
Gross Calorific Value	(Dry ash free basis)	: 7766 kcal / kg



CLIENT : CORNWALL COAL COMPANY

DESCRIPTION : CORNWALL COAL BORE CORE SAMPLES

REPORTED TO : Mr John Bryan

Mt. DURHAM DDH 9 Ply 3

As received : 2000 gm

RAW COAL ANALYSIS

Sample Number	:	19039
Relative density	:	1.60
Moisture *	(Air dried basis)	: 4.4 %
Ash	(Air dried basis)	: 32.4 %
Volatile Matter	(Air dried basis)	: 22.0 %
Total Sulphur	(Air dried basis)	: 0.37 %
Specific Energy	(Air dried basis)	: 20.17 MJ/kg
Specific Energy	(Dry ash free basis)	: 31.92 MJ/kg
Gross Calorific Value	(Air dried basis)	: 4819 kcal / kg
Gross Calorific Value	(Dry ash free basis)	: 7625 kcal / kg

CORNWALL COAL MT DURHAM DDH10

Location: R.L.8815

Logged by: J. Bryan

AMG Co-ordinates: 589601.2E

Drilled by: Stacpoole Drilling

5398871.8N

(Wayne Baldy)

Collar R.L.: 467.7m

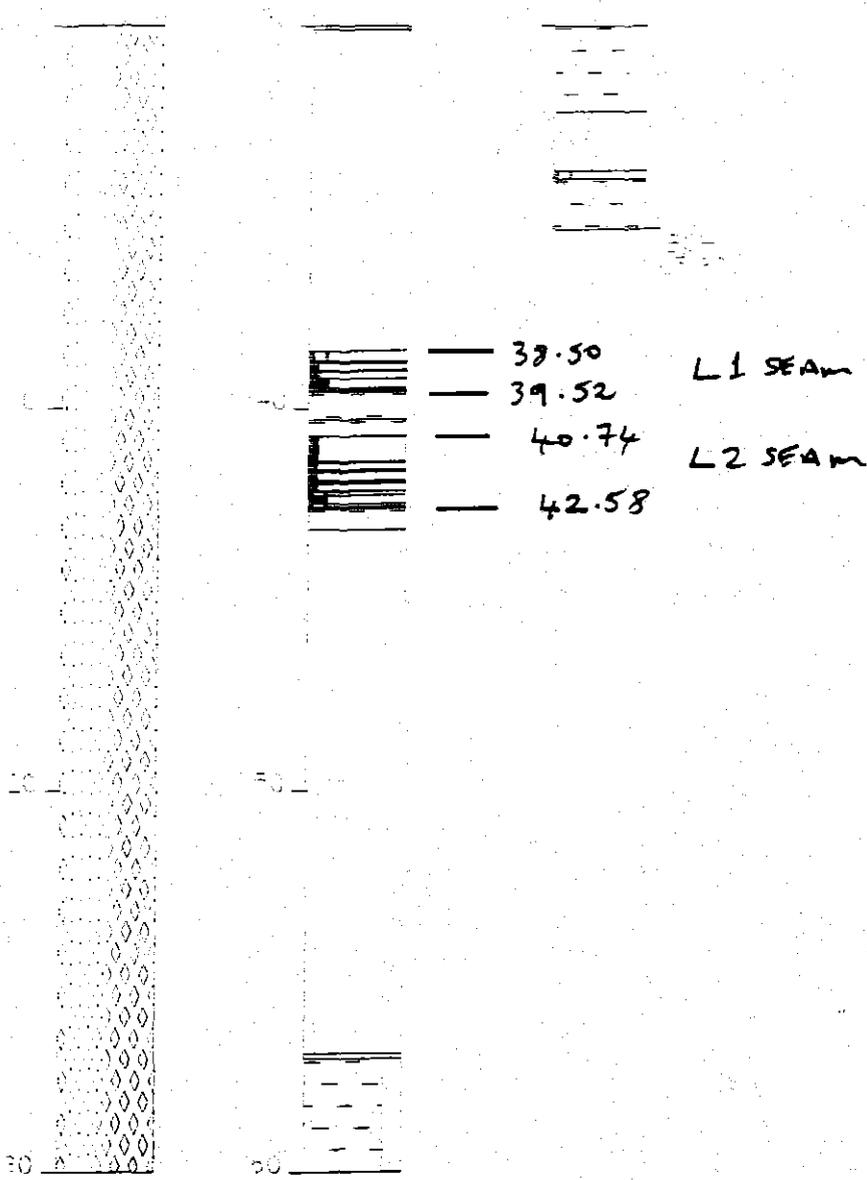
Commenced: 17.2.98

Total Depth: 65.30m

Completed: 18.2.98

	Estimated Thickness (m)	Estimated Depth to Base of Stratum (m)	Remarks
OPEN HOLE - SCREE	30.10	30.10	4 ¾" hammer NQ core
SANDSTONE, grey, fine to medium, lithic, occasional coaly wisps	8.40	38.50	
COAL, dull to stony	0.26	38.76	
MUDSTONE, black, carbonaceous	0.04	38.80	
CLAYSTONE, white, hard, ? tuffaceous	0.02	38.82	
COAL, dull	0.18	39.00	
CLAYSTONE, white, hard, ? tuffaceous	0.03	39.03	
COAL, dull	0.20	39.23	
COAL, dull minor bright	0.23	39.46	
CLAYSTONE, brown to grey/brown, tuffaceous	0.02	39.48	
COAL, dull minor bright	0.04	39.52	
CLAYSTONE, white, hard, ?tuffaceous	0.01	39.53	
COAL, dull minor bright	0.01	39.54	
MUDSTONE, grey/brown, carbonaceous	0.03	39.57	
MUDSTONE, grey/green to grey	0.74	40.31	
MUDSTONE, grey, laminated, very soft in part, calcite throughout lower part (weak roof of L2 Seam)	0.41	40.72	
MUDSTONE, black, carbonaceous to coaly	0.02	40.74	
COAL, dull (core logs in coal)	0.66	41.40	
CLAYSTONE, brown, laminated	0.04	41.44	
COAL, dull	0.18	41.62	
COAL, dull minor bright	0.05	41.67	
COAL, dull	0.22	41.89	
CLAYSTONE, grey, hard	0.01	41.90	
COAL, dull	0.03	41.93	
CLAYSTONE, grey, hard	0.05	41.98	

	Estimated Thickness (m)	Estimated Depth to Base of Stratum (m)	Remarks
COAL, dull	0.18	42.16	
CLAYSTONE, grey hard	0.02	42.18	
COAL, dull to stony	0.10	42.28	
COAL, dull minor bright	0.22	42.50	
COAL, dull to stony	0.08	42.58	
MUDSTONE, black, carbonaceous	0.06	42.64	
MUDSTONE, grey to grey/green, becoming sandy	0.54	43.18	
SANDSTONE, grey, fine to medium, lithic	13.72	56.90	
MUDSTONE, dark grey, carbonaceous	0.15	57.05	
MUDSTONE (80%), SANDSTONE (20%), interbedded, laminated, grey	5.20	62.25	
MUDSTONE, black, carbonaceous to coaly minor tuffaceous interbeds	1.53	63.78	
COAL, dull to stony	0.22	64.00	
MUDSTONE, grey/brown, relatively soft	1.30	65.30	T.D. 65.30

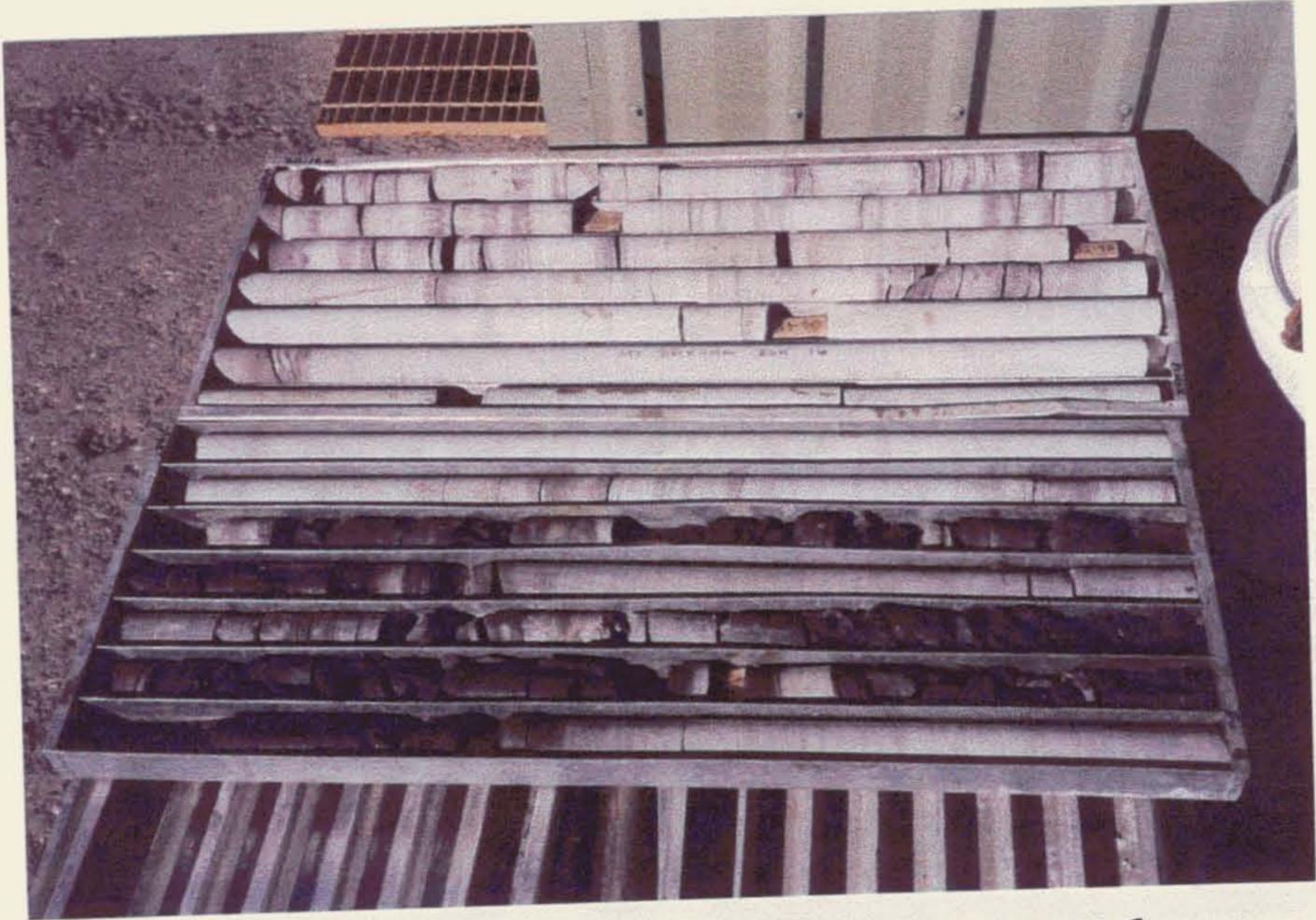


-  CARB Mudstone
-  COAL Duff minor
-  COAL Duff
-  SLANDSTONE
-  MUDSTONE
-  COAL Duff (at)
-  SANDSTONE
-  GREE

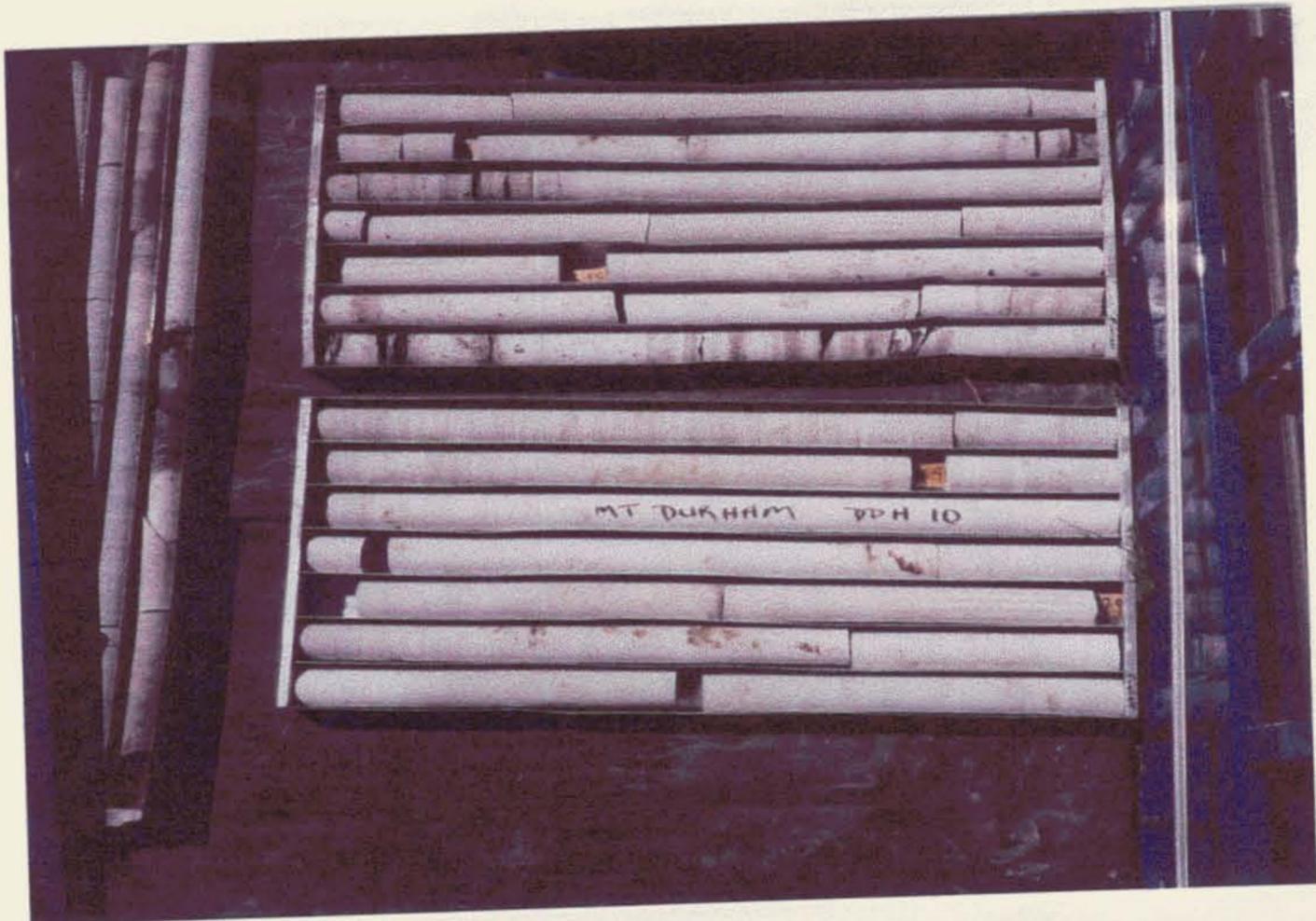
CORNWALL COAL	
MT DURHAM IDH 10	
DATE DRILLED:	17.2.98
GEOLOGY BY	MBGS
LOGGED BY	J. BRYAN
Scale 1:200	

203035

CORNWALL COAL COMPANY N.L.
MT DURHAM DDH 10



BOXES 1+2 30.10m - 43.25m



BOXES 3+4 43.25m - 56.75m

CORNWALL COAL COMPANY N.L.
MT DURHAM DDH 10

203036



BOXES 5 + 6

56.75m - 65.30m T.D



CLIENT : CORNWALL COAL COMPANY

REF : W4204

DESCRIPTION : CORNWALL COAL BORE CORE SAMPLES

REPORTED TO : Mr John Bryan

Mt. DURHAM DDH 10 L2 SEAM

As received : 3290 gm

RAW COAL ANALYSIS

Sample Number	:	19285
Relative density	:	1.65
Moisture *	(Air dried basis)	: 3.2 %
Ash	(Air dried basis)	: 34.0 %
Volatile Matter	(Air dried basis)	: 21.4 %
Total Sulphur	(Air dried basis)	: 0.32 %
Specific Energy	(Air dried basis)	: 19.53 MJ/kg
Specific Energy	(Dry ash free basis)	: 31.10 MJ/kg
Gross Calorific Value	(Air dried basis)	: 4665 kcal / kg
Gross Calorific Value	(Dry ash free basis)	: 7428 kcal / kg

SIZE DISTRIBUTION

Size Fraction mm sq. aperture	Mass %	Cum. Passing Mass %	Ash %
- 19.0 + 0.5 ww	94.3	100.0	
- 0.5 ww	5.7	5.7	34.4



CLIENT : CORNWALL COAL COMPANY

REF : W4204

DESCRIPTION : CORNWALL COAL BORE CORE SAMPLES

REPORTED TO : Mr John Bryan

Mt. DURHAM DDH 10 L2 SEAM

FLOAT SINK ANALYSIS

Size Fraction : - 19.0 + 0.5 mm ww.

Proportion of Total Sample : 94.3 %

Relative Density Fraction	Fractional Mass %	Ash % (a.d.)	Cumulative Mass %	Ash % (a.d.)	Sample Number
F1.40	34.2	10.7	34.2	10.7	19202
S1.40 - F1.50	10.9	18.7	45.1	12.6	19203
S1.50 - F1.60	10.1	26.7	55.2	15.2	19204
S1.60 - F1.70	10.1	35.1	65.3	18.3	19205
S1.70	34.7	60.7	100.0	33.0	19206

Analysed in accordance with AS1038 part 3 and AS4156 part 1.

Mt. DURHAM DDH 10 L2 SEAM SIMULATED PRODUCT

Sample Number	:	19292
Yield (Calculated)	(Air dried basis)	: 61.6 %
Moisture *	(Air dried basis)	: 3.4 %
Ash	(Air dried basis)	: 18.6 %
Volatile Matter	(Air dried basis)	: 24.8 %
Total Sulphur	(Air dried basis)	: 0.42 %
Specific Energy	(Air dried basis)	: 25.52 MJ/kg
Specific Energy	(Dry ash free basis)	: 32.72 MJ/kg
Gross Calorific Value	(Air dried basis)	: 6095 kcal / kg
Gross Calorific Value	(Dry ash free basis)	: 7815 kcal / kg