

OPEN FILE

QUINETTE COAL LIMITED
1989 GEOLOGICAL REPORT
TRANSFER AND GRANT, AND
MESA NORTH EXTENSION
APPENDIX IX

~~CONFIDENTIAL~~

Prepared by Technical Services Department
Quintette Coal Limited

753

Addendum II
1989 Geological Report
Descriptive Logs

1989 GEOLOGICAL REPORT
TRANSFER, GRIZZLY AND MESA NORTH EXTENSION AREAS

INDEX - ADDENDA

Addendum II	Descriptive Logs
	Section 1 - Transfer Core Holes
	QHD89001
	QHD89002
	Section 2 - Mesa North Extension Core Holes
	QMD89501
	QMD89502
	QMD89503

Note: The three Addenda (2 copies of each) are supplied to the Ministry of Energy, Mines and Petroleum Resources, Victoria, B.C., only. Other copies and originals are on file at the Administration Building, Quintette Coal Limited, Tumbler Ridge, B.C.

LEGEND

1989 DESCRIPTIVE LOGS

STRATIGRAPHIC LITHOLOGY

	<u>Abbreviation</u>	<u>% Ash</u>	
Coal	CA	<10	
	CB	10-20	
	CC	20-30	
	MC		Missing coal
Rock	CD	30-40	
	CSH	40-50	Coaly shale
	DKSH	50-70	Dark shale
	DKGRSH,DKGYSH	>70	Dark grey shale
	GRSH	>90	Grey shale
	SH		Shale
	CRSH, CSSH		Coarse shale
	SSH		Sandy shale
	VFS		Very fine sandstone
	FS		Fine sandstone
	MS		Medium sandstone
	CS		Coarse sandstone
	CGL, CONGL		Conglomerate
	OB		Overburden
	MR		Missing rock
	Other	A/A or AA	
bioturb			bioturbated
carb			carbonaceous
calc			calcite
foss			fossilized plant material
frac			fracture
hem			hematite
i/p			in part
lam, lam ⁿ , lamin			lamination (laminated)
loc			local(ly)
org, organ			organics
pf			plant fragments
pl.rmns			plant remains
pyr			pyrite
s/s			slickensides
X-bd			cross-beds

QHD 89001 DRILL CORE LOG

Logged : G. Cane, M. Gant, N. Hori

Sampled : Aug. 89. to Commercial Testing Vancouver B.C.

Sample Numbers : (4001 → 4006), (4018 → 4028)

Pages : 1 → 68

Core Boxes : 1 → 147

QHDB9001

Murray Basin
June 19, 1961

B C N	UNIT		THICKNESS		SAMPLE NO.	LITHOLOGY DESCRIPTION					MARKER rec. r. q. d. d. o. b.	STR.	FRAC/m		FRACTURE TYPE AND CHARACTERISTICS
	From	To	Apparent	True		Strat. Lithology	Grain Size	Fresh Colour	Bedding Charact.	Other Sed. Charact.			bd	jt	
						Box 1									
	10.63		50			ms. (could be OB → bould'rs.)					27'/8.23				
			40			dksh w small pieces brkn fs Fract'd thru (unconsolidated)									
			109			dksh as above					33'/10.08			0.90 2.83 (-93)	
			165												
(20)	12.57		10			dksh					40'/12.12			1.09 2.13 (-102)	
						Box 2									
			11			dksh, poorly consolidated									
			73			crsh; brown; friable; finely lam'd									
			29			dksh; interbedded (thin; 2mm) coal lam.									
			50			vfs, pf								extrem. frac'd	
	14.64		34			fs								"	

DRILL CORE LOG



HOLE No. QHDB9001

PAGE No. 1

June 19, 1989

B C N	UNIT		THICKNESS		SAMPLE NO.	LITHOLOGY DESCRIPTION					MARKER rec r.g.d d.o.b	STR.	FRAC/m		FRACTURE TYPE AND CHARACTERISTICS
	From	To	Apparent (cm)	True		Strat. Lithology	Grain Size	Fresh Colour	Bedding Charact.	Other Sed. Charact.			bd	jt.	
						Box 3									
	14.64		36	70		f.s.	calc. filled fract.		Fract. - blocky.			5	5		
			40			m.s.									
									Marker	50' 15.24m				$\frac{2.83}{3.05} (-0.22)$	
			44	1.59		m.s.	calc. filled fract.		S/S (possible fault)						
20°			75			m.s.	interbedded f.s. (1cm thick)		D 20°						
						Box 4									
(26)			91			f.s.	interbedd m.s.								
			50			f.s.									
									marker	60' 10.29m				$\frac{2.60}{3.05} (-0.45)$	
37°			57			f.s.	interbedd crsh.		carb. plant remains						
						Box 5									
	18.94		37			cr.sh.	interbedd v.f.s.		thin lam.			20			

June 19, 1989.

B C N	UNIT		THICKNESS		SAMPLE NO.	LITHOLOGY DESCRIPTION					MARKER rec. r.q.d. d.o.b	STR	FRAC/m		FRACTURE TYPE AND CHARACTERISTICS
	From	To	Apparent (cm)	True		Strat. Lithology	Grain Size	Fresh Colour	Bedding Charact.	Other Sed. Charact.			bd.	jt.	
	18.94		150	2.57		cr. sh.	5m calc. filled fract.					20	9		
			70				Box 6								
			103	1.63		cr. sh.				marker	70' 21.34			3.14 3.05 (+0.09)	
			36				sh.	pieces ground sh. 0.5-4 cm							
(37)						Box 7									
			24			sh.	- broken A/A.								
			22			m.s.									
			11			cc				marker	80' 24.38			1.96 3.05 (-1.09)	
			18			sh	sheared. S/S - possible fault.								
* (40)	23.66		38			m.s.	Fract.								

June 19 '84

B C N	UNIT		THICKNESS		SAMPLE NO.	LITHOLOGY DESCRIPTION					MARKER rec. r, a, d. d, o, b	STR.	FRAC/m		FRACTURE TYPE AND CHARACTERISTICS
	From	To	Apparent (cm)	True		Strat. Lithology	Grain Size	Fresh Colour	Bedding Charact.	Other Sed. Charact.			bd	jt.	
	2366		20			V.f.s.									
			28			drill cuttings (?) → not included*									
						Box 8									
			50			DKGRSH				heavily fract.					
			27			CSH									
			5			DKGRSH									
			10			SH									
			28			F.S. interbdd. V.F.S.									
40°			80			V.F.S.									
						BOX 9									
			19			F.S.									
↑															
(43)	26.58		53			CR. SH.				Fract.		10	20		
↓															

DRILL CORE LOG

HOLE No. QH1789061

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June 19 '89

B C N	UNIT		THICKNESS		SAMPLE NO.	LITHOLOGY DESCRIPTION					MARKER rec. r.q.d. d.o.b	STR	FRAC/m		FRACTURE TYPE AND CHARACTERISTICS	
	From	To	Apparent (cm)	True		Strat. Lithology	Grain Size	Fresh Colour	Bedding Charact.	Other Sed. Charact.			bd	jt		
47*	26.58		130			F.S.										
						<u>Box 10</u>										
										MARKER	100' 30.48m					4.78 6.10 (-1.32) marker 90' missing
			100			V.F.S.										
			76	1.76		V.F.S. intbed. F.S.										
50*			8			M.S.										
			31			V.F.S. intbd F.S.										
						<u>Box 11</u>										
			37	1.18		V.F.S.										
51*			50.			V.F.S. intbd F.S.										
										Marker	110' 33.53					3.02 3.05 (-0.03)
55			118.			F.S.										
						<u>Box 12</u>										
				3.25												
55	34.06		198			F.S.		s/s								

DRILL CORE LOG


 Quintette Coal Limited

HOLE No. QHD 89001

PAGE No. 5.

June 19, 1989

B C N.	UNIT		THICKNESS		SAMPLE NO.	LITHOLOGY DESCRIPTION					MARKER rec r.a.d. d.o.b	STR	FRAC/m		FRACTURE TYPE AND CHARACTERISTICS
	From	To	Apparent (cm)	True		Strat. Lithology	Grain Size	Fresh Colour	Bedding Charact.	Other Sed. Charact.			bd	jt.	
										Marker	120' 36.58m			$\frac{3.16}{3.05} (+0.11)$	
	34.06		9			F.S.									
						Box 13									
			263			SH	intbd	V.F.S.							
			3			V.F.S.									
				.31		Box 14									
			28			V.F.S.									
			60			F.S.	grading to	M.S.							
										marker	130' 39.62m			$\frac{3.03}{3.05} (-0.02)$	
55°			115			V.F.S.	intbd	CR.SH	some carb. plant frags.						
				1.84		Box 15									
			69			V.F.S.	intbd	CR.SH	carb. pl. v.mns.						
			15			F.S.									
			20			V.F.S.									
(62)															
	40.18		90			V.F.S.	intbd	F.S.							
										marker	141' 42.67m			$\frac{3.09}{3.05} (+0.04)$	

39.06.

DRILL CORE LOG



HOLE No. QHD89001

PAGE No. 6

JN. 19, 1989

B C N	UNIT		THICKNESS		SAMPLE NO.	LITHOLOGY DESCRIPTION					MARKER rec r.q.d. d.o.b	STR.	FRAC/m		FRACTURE TYPE AND CHARACTERISTICS
	From	To	Apparent (cm)	True		Strat. Lithology	Grain Size	Fresh Colour	Bedding Charact.	Other Sed. Charact.			bd.	jt.	
						Box 16									
	40.18		51	1.61		VFS	intbd	FS					16	3	
			20				FS								
			42	.62		FS	mtbd	VFS							
62°			99				MS	intbd	FS						
						Box 17									
65°			72	1.93		MS.	intbd	FS.							
			52				MS	intbd	FS	A/A.					
			49			MS			no bddy.						
(70)			22	0.43		MS.			brown weath color. calc. fl. frac. (possible fault): S/S.						
							Box 17								
	44.66		21			MS			brown calc. fl frac. A/A:						

DRILL CORE LOG



HOLE No. QHD 89001

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JAN. 19, 1989

B C N	UNIT		THICKNESS		SAMPLE NO.	LITHOLOGY DESCRIPTION					MARKER rec. r. a. d. d. o. b.	STR	FRAC/m		FRACTURE TYPE AND CHARACTERISTICS
	From	To	Apparent (cm)	True		Strat. Lithology	Grain Size	Fresh Colour	Bedding Charact.	Other Sed. Charact.			bd	jt.	
↑															
	44.66		152			MS									
			15	} 0.99		FS.									
										Marker	160' 48.77				$\frac{3.11}{3.05} (+.06)$
75°			15				FS.								
			69			FS.	intbd VFS								
78°			143			CR. SN	intbd VFS								
↑															
			72	} 198		FS.									
(02)			126				FS	A/A			MRKR	170' 51.82			$\frac{2.99}{3.05} (-.06)$
↑															
			180	} 189		FS.									
87°											MRKR	190'			$\frac{3.06}{3.05} (+.01)$
↓	52.47	49				FS.	(5cm drilling mud)*								calc. fl. frac.

DRILL CORE LOG



HOLE No. AHJ 89001

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JUNE 22, 1989

B C N	UNIT		THICKNESS		SAMPLE NO.	LITHOLOGY DESCRIPTION					MARKER rec. r.a.d. d.o.b	STR.	FRAC/m		FRACTURE TYPE AND CHARACTERISTICS
	From	To	Apparent (cm)	True		Strat. Lithology	Grain Size	Fresh Colour	Bedding Charact.	Other Sed. Charact.			bd	jt.	
						<u>Box 22</u>									
82°	52.47		205	} 3.50		MS									
							<u>Box 23</u>								
			108				MS	broken	S/S		calc. fl. frac.				
											MRKR	190' 57.91 m			$\frac{3.22}{3.05} (-0.17)$
			37 48			MS	A/A			(11cm drilling mud - not incl.)					
		56.08	11			SH	carb. pl. frag.								
	56.08		2	} 10		MS	broken.				MRKR	195' 59.44 m			$\frac{0.50}{1.53} (-1.03)$
			8				MS								
						<u>Box 24</u>									
			27			Drill mud (not incl.) *									
			7			MS									
		56.25	25			Drill mud (not incl.) *									

DRILL CORE LOG

B C N	UNIT		THICKNESS		SAMPLE NO.	LITHOLOGY DESCRIPTION					MARKER rec r.g.d. dob	STR.	FRAC/m		FRACTURE TYPE AND CHARACTERISTICS
	From	To	Apparent	True		Strat. Lithology	Grain Size	Fresh Colour	Bedding Charact.	Other Sed. Charact.			bd	jt	
(82)	56.25	56.38	13		4001	ms. ; highly fractured								broken	
			[45]			drilling mud & rock pieces *not included in tally									
	56.38		65			CB overall									pulu. (dust)
			(115)			MC									1.38 1.52 (-.14)
			21			CA overall					200/60.96 m				broken 3 cm pieces
(78)			(105)			MC			Box 25 *						
		59.85	41			CA									broken
	59.85		4			esh									"
			38			dkgrsh									
			[14*]			drilling mud *do not incl in tally									
		60.73	49 46		dksh									broken	
	60.73	61.21	51 48		crsh									"	

DRILL CORE LOG



HOLE No. QHD89001

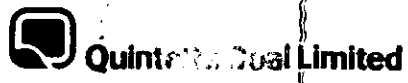
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* Box 25 was originally logged upside down (the order here is correct), this fact found when sampling.
The 41cm of CA was found to be an over measurement

B C N.	UNIT		THICKNESS		SAMPLE NO.	LITHOLOGY DESCRIPTION					MARKER rec. r.q.d. d.o.b	STR.	FRAC/m		FRACTURE TYPE AND CHARACTERISTICS
	From	To	Apparent	True		Strat. Lithology	Grain Size	Fresh Colour	Bedding Charact.	Other Sed. Charact.			bd.	jt.	
						Box 26									
	61.21		36	34		SH.			frbl.	calc. fl. frac.					
										MRKR	216' (64.91 m)				$\frac{2.40}{3.05} (-0.65)$
			57	53		SH	A/A								
			6			Drill Mud. (not incl.)*									
			15			DKSH.			S/S.						
			57	52		SH			S/S	calc. fl. frac.					broken.
			2			Drill Mud. (not incl.)*									
(78)			34			SH	A/A.		S/S	calc. fl. frac.					
						Box 27									
			160	153		SH			S/S	calc. fl. frac.	frbl.				
										MRKR	228' (69.49 m) 220' (67.06 m)				$\frac{3.23}{3.05} (+.18)$
			26			SH	A/A								
↓	64.95		7			CRSH				frbl.					

DRILL CORE LOG

frbl. = friable.



HOLE No. QHD89001

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JN. 22 '89.

B C N	UNIT		THICKNESS		SAMPLE NO.	LITHOLOGY DESCRIPTION					MARKER rec. r.a.d. d.o.b	STR.	FRAC/m		FRACTURE TYPE AND CHARACTERISTICS
	From	To	Apparent (cm)	True		Strat. Lithology	Grain Size	Fresh Colour	Bedding Charact.	Other Sed. Charact.			bd	jt.	
						Box 29									
75'	64.95		213	} 284		VFS	intbd	CRSH.							
							Box 29								
			71	} 1.00		VFS	intbd	CRSH	A/A						
			6				SH								
			[4]				Drill mud (not to incl.)*								
			135-130			SH			Brn. Stain. (oxid. color)					Semi. brkn.	
						Box 30									
			32-29			SH	S/S	calc. fr. frac.	3cm highly fract. zone (possible shear zone)						
			15			SH									
			55			VFS	intbd.	CRSH.							
			3			CB									
↓ (62)	70.82		65			VFS	intbd	CRSH	A/A.						

JUN. 22. '89.

B C N	UNIT		THICKNESS		SAMPLE NO.	LITHOLOGY DESCRIPTION					MARKER rec. r.q.d. d.o.b	STR.	FRAC/m		FRACTURE TYPE AND CHARACTERISTICS
	From	To	Apparent	True		Strat. Lithology	Grain Size	Fresh Colour	Bedding Charact.	Other Sed. Charact.			bd	jt.	
62° *	70.82		31	96						MRKR	250' 76.2m				6.28 (+.19) 6.09
						VFS	intbd	CRSH		calc. fl. frac.		240'			
75°			208												solid.
			40 38												semi. brkn.
			30 28												Fract.
										MRKR	250' 76.2m				~ 10' from other 250' MRKR.
										(repeated - driller's mistake)					3.09 m core between two 250' blocks.
72° *			46												
			96												
				162											
			66												solid
↓ (68) ↓	76 16		21												solid

DRILL CORE LOG



HOLE No. QHD 89001
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SN. 22, 1989.

B C N	UNIT		THICKNESS		SAMPLE NO.	LITHOLOGY DESCRIPTION					MARKER rec r.q.d d.o.b	STR.	FRAC/m		FRACTURE TYPE AND CHARACTERISTICS
	From	To	Apparent (cm)	True		Strat. Lithology	Grain Size	Fresh Colour	Bedding Charact.	Other Sed Charact.			bd	jt.	
65°	76.16		49			CRSH									Solid.
			17			SH									
										MRKR.	260' 79.25				$\frac{2.95}{3.05} (-0.10)$
						MS.	* (- possible fault zone in competent MS.) *								Broken (heavily)
			34.32							MRKR	270' 82.30				$\frac{2.34}{3.05} (-2.71)$
						Box 34									
			15			SH									
75°			183 199			VFS	red stain. minor S/S								broken (in part)
						Box 35									
45°			230 127			VFS	intbd FS								$\frac{3.28}{3.36} (-0.08)$
										MRKR	281' 85.65				marker 290' missing
			53			FS	calc. fl. frac S/S								Solid
						Box 36									
70°	82.98		210			FS	intbd VFS								Solid

B C N	UNIT		THICKNESS		SAMPLE NO.	LITHOLOGY DESCRIPTION					MARKER rec. r.g.d. d.o.b	STR	FRAC/m		FRACTURE TYPE AND CHARACTERISTICS
	From	To	Apparent	True		Strat. Lithology	Grain Size	Fresh Colour	Bedding Charact.	Other Sed. Charact.			bd	jt	
						<u>Box 37</u>									
	82.98		22	}		FS									semi-broken.
			46				FS		calc. fl. frac.				290' 88.39 m		
70°			130	}		VFS									solid
*							<u>Box 38</u>								
(75)			21	}		VFS									solid.
*			90				CRSH								
80°			7	}		VFS									
			93										300' 91.44 m		
			86	}		VFS		intbd CRSH							
*							<u>Box 39</u>								
76°	89.10	210				FS		intbd VFS:		(soft sed. def ^M)					solid.

JUNE 22 '89

B C N	UNIT		THICKNESS		SAMPLE NO.	LITHOLOGY DESCRIPTION					MARKER rec. r.q.d. d.o.b	STR	FRAC/m		FRACTURE TYPE AND CHARACTERISTICS
	From	To	Apparent (cm)	True		Strat. Lithology	Grain Size	Fresh Colour	Bedding Charact.	Other Sed. Charact.			bd	jt.	
						Box 40									
(76)	89.10		11	1.77		VFS.									solid.
			166				VFS s/s calc. fl. frac. (not abdt.)					310' 94.49 m			$\frac{3.07}{3.05} (+.02)$ solid.
*			29	436		FS								solid.	
80°			106				Fs.								solid.
			93			FS.					320' 97.54 m			$\frac{3.01}{3.05} (-.04)$ solid.	
						Box 41									
						Box 42									
↓	95.23		24	2.08		FS intbd VFS. (whole box) - (soft sed. def ⁿ - flames) - no bddg. easily seen ∴ no B.C.N.								solid. (6 breaks/box)	

DRILL CORE LOG

JUNE 22 '89

B C N	UNIT		THICKNESS		SAMPLE NO.	LITHOLOGY DESCRIPTION					MARKER rec. r.g.d. d.o.b	STR.	FRAC/m		FRACTURE TYPE AND CHARACTERISTICS
	From	To	Apparent (cm)	True		Strat. Lithology	Grain Size	Fresh Colour	Bedding Charact.	Other Sed. Charact.			bd.	jt.	
						Box 43									
↑	95.23		11	54		VFS intbd CRSH								solid.	
												330' 100.58m		$\frac{3.15}{3.05} (+.10)$	
85°			43	173		VFS intbd CRSH (A/A) bioturbation; (burrows)								solid.	
			138 135				FS.								solid.
			38	98 97		Box 44									
							FS								solid.
						SH									
											340' 103.63m		$\frac{3.17}{3.05} (+.12)$		
80°			43			FS calc. fl. frac								extreme frac.	
											342' 104.24m		$\frac{.43}{0.61} (-.18)$		
	98.90		15			Drill mud & cuttings (not to incl.) *									

G. Cane.
M. Gant.

JUNE 22 '89

B C N	UNIT		THICKNESS		SAMPLE NO.	LITHOLOGY DESCRIPTION					MARKER rec r.q.d. d.o.b	STR	FRAC/m		FRACTURE TYPE AND CHARACTERISTICS
	From	To	Apparent	True		Strat. Lithology	Grain Size	Fresh Colour	Bedding Charact.	Other Sed Charact.			bd	jt	
						Box 45									
	98.90		145	132		VFS			calc. fl. frac. (high density*)						broken
(80)			67	63		FS			dk. grey						Semi-broken
						Box 46									
			46			CRSH									solid
													350' 106.69m		2.58 (+.14) 2.44
			142	140		CRSH	A/A								
77			166	164		VFS	intbd	CRSH	calc. fl. frac. perp. bdg. frac. offset.						
	104.87	52				VFS	intbd	CRSH	(A/A)						360' 114.73m 3.08 (+.03) 3.05
															solid.

DRILL CORE LOG



HOLE No. QHD 89001

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B C N	UNIT		THICKNESS		SAMPLE NO.	LITHOLOGY DESCRIPTION					MARKER rec. r.q.d. d.o.b	STR	FRAC/m		FRACTURE TYPE AND CHARACTERISTICS
	From	To	Apparent	True		Strat. Lithology	Grain Size	Fresh Colour	Bedding Charact.	Other Sed. Charact.			bd	jt	
						<u>Box 48.</u>									
	104.87		117	114		CRSH	intbd	VFS		calc. fl. frac					solid.
(27)			5			CC	(coal)			calc fl. frac ↓ bdg. & along bdg.					
			94	89		VFS	intbd	CRSH							semi-brkn.
						<u>Box 49.</u>									
			65			DKSH	intbd	VFS							solid.
(75)											376	112.78			$\frac{3.33}{3.05} (1.28)$
(85°)			16			DKSH	A/A								semi-brkn.
			125			VFS	intbd	FS							solid.
						<u>Box 50</u>									
70°			70			FS				calc fl frac ↓ bdg & // bdg.					solid.
		110.64	93			VFS				calc fl frac. bioturb.					

G. Cane.
M. Gant.

JUNE 22 '89.

B C N	UNIT		THICKNESS		SAMPLE NO.	LITHOLOGY DESCRIPTION					MARKER rec. r.q.d. d.o.b	STR.	FRAC/m		FRACTURE TYPE AND CHARACTERISTICS
	From	To	Apparent	True		Strat. Lithology	Grain Size	Fresh Colour	Bedding Charact.	Other Sed. Charact.			bd	it.	
											392' 116.43m			$\frac{3.04}{3.66} (-.62)$	
↑	110.64		32			CRSH								solid	marker 380 missi
						Box 51									
			14			DKSH									
			193			CRSH		calc. fl. frac.	⊥ bdy.					solid	
						Box 52									
80°			68 65			CRSH	intbd	VFS	calc. fl. frac.	⊥ bdy.				semi-brkn.	
											390' 116.67m			$\frac{3.07}{2.44} (+.63)$	
			143			CRSH	A/A		calc. fl. frac.	// bdy.					
						Box 53									
			148 143			SH	intbd	VFS.						semi-brkn.	
											400' (121.92m)			$\frac{2.91}{3.05} (-.14)$	
↓	116.98		44			SH			calc. fl. frac.	S/S					

DRILL CORE LOG



HOLE No. QHD 89001
PAGE No. 20

JUNE 22, 1989.

B C N	UNIT		THICKNESS		SAMPLE NO.	LITHOLOGY DESCRIPTION					MARKER rec. r.q.d. d.o.b	STR.	FRAC/m		FRACTURE TYPE AND CHARACTERISTICS
	From	To	Apparent (cm)	True		Strat. Lithology	Grain Size	Fresh Colour	Bedding Charact.	Other Sed. Charact.			bd.	it.	
						Box 54									
75°	116.98		116	112		CRSH	S/S	calc. fl. frac.	I bdg.						semi-brkn (9 per box.)
*			1			CC									
			89	86		CRSH	A/A								
			269			Box 55									
			77	74		CRSH	carb. pl. r.mns.								
68°			113	109		CRSH	A/A								
*						Box 56									
63°			208			SH	carb. pl. r.mns.								solid.
*															
						Box 57									
(60)	124.11	123				CRSH	S/S	calc. fl. frac.	// bdg.						

110 (124.97 m) 3.27 / 3.05 (+.22)

420 (128.02 m) 3.21 / 3.05 (+.16)

DRILL CORE LOG

A/A = as above
S/S = slickensides



JUNE 22 89

B C N.	UNIT		THICKNESS		SAMPLE NO.	LITHOLOGY DESCRIPTION					MARKER rec. r.g.d. d.o.b	STR	FRAC/m		FRACTURE TYPE AND CHARACTERISTICS
	From	To	Apparent	True		Strat. Lithology	Grain Size	Fresh Colour	Bedding Charact.	Other Sed. Charact.			bd	jt.	
(73)	124.11		52			VFS.									
80°			29			CRSH		calc. fl. frac.							semi-bkn
						Box 58									
			105			VFS		carb. pl. r.m.s.							solid (4 frac./box)
											430' 131.06 m				$\frac{3.09}{3.05} (+.04)$
80°			102			VFS	A/A	S/S.							
						Box 59									
*			190			VFS.		dk. grey calc. fl. frac.	carb. pl. r.m.s.						solid.
						Box 60									
			30			VFS									solid.
											440' 134.11 m				$\frac{3.22}{3.05} (+.17)$
85°	130.97		178			VFS		grey.	soft sed. def.						

JUNE 22 89

B C N	UNIT		THICKNESS		SAMPLE NO.	LITHOLOGY DESCRIPTION					MARKER rec. r.g.d. d.o.b	STR.	FRAC/m		FRACTURE TYPE AND CHARACTERISTICS
	From	To	Apparent	True		Strat. Lithology	Grain Size	Fresh Colour	Bedding Charact.	Other Sed Charact.			bd	jt.	
						Box 61									
	130.97		123	↑		VFS	S/S	contorted bdg.							
*								(showers)			450' 137.18m			3.01 (-.04)	3.05
20°			70			VFS				bioturb.					
*						Box 62									
75°			211			VFS		contorted	soft Sed.	def.					
						Box 63									
			30			VFS									solid.
											460' 140.24m			3.11 (+.06)	3.05
75°			167			CRSH									solid.
						Box 64									
*			57			CRSH									solid.
(80)	138.38		46	↓		VFS									solid.

DRILL CORE LOG



Quintette C Limited

HOLE No. QHD 89001

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JUNE 22 '89

B C N.	UNIT		THICKNESS		SAMPLE NO.	LITHOLOGY DESCRIPTION					MARKER rec. r.a.d. d.o.b	STR.	FRAC/m		FRACTURE TYPE AND CHARACTERISTICS
	From	To	Apparent	True		Strat. Lithology	Grain Size	Fresh Colour	Bedding Charact.	Other Sed. Charact.			bd.	jt.	
											470' 143.26m			3.07 (+.02) 3.05	
	138.38		60			VFS			soft sed def.	flame density structures				solid.	
						<u>Box 65</u>									
80°			206			VFS	intbd FS	bioturb		contorted bdg.				solid.	
						<u>Box 66</u>									
			45			VFS	intbd FS	A/A						solid	
											480' 146.61m			3.11 (+.06) 3.05	
			<u>27*</u>			Drill mud, broken rk. (do not incl.)*									
*			A			SH				carb pl. r.mns.					
(76)			108			FS	intbd VFS			contorted, low & planar x-bdg.				solid core.	
*						<u>Box 67</u>									
(71)	144.38		176			CRSH	intbd VFS							solid.	
											490' 149.35m			2.89 (-.16) 3.05	

JUNE 22 '89

B C N	UNIT		THICKNESS		SAMPLE NO.	LITHOLOGY DESCRIPTION					MARKER rec. r, q, d. d, o, b	STR.	FRAC/m		FRACTURE TYPE AND CHARACTERISTICS
	From	To	Apparent	True		Strat. Lithology	Grain Size	Fresh Colour	Bedding Charact.	Other Sed. Charact.			bd	jt	
	144.38		28			VFS	intbd	CRSH	A/A						
						Box 68.									
71°			21			CRSH	intbd	VFS							solid.
						Box 69									
			75	423		CRSH									
											500' 152.40m			$\frac{3.14}{3.05} (+.09)$	
			137			CRSH	A/A								solid.
*						Box 70									
			135			FS	intbd	VFS.							
			10			CA									
			34			FS	intbd	VFS							
				270											
65°	150.98	30				FS	intbd	VFS	(A/A)						$\frac{3.16}{3.05} (+.11)$
											510' 155.45				

DRILL CORE LOG

JUNE 22 '89

B C N	UNIT		THICKNESS		SAMPLE NO.	LITHOLOGY DESCRIPTION					MARKER rec. r.q.d. d.o.b	STR	FRAC/m		FRACTURE TYPE AND CHARACTERISTICS
	From	To	Apparent	True		Strat. Lithology	Grain Size	Fresh Colour	Bedding Charact.	Other Sed. Charact.			bd.	jt.	
						Box 71									
65°	150.98		206			FS intbd VFS									
						Box 72									
		153.29	25			VFS									
			26			SH									↑
			14			VFS									solid.
				47											3.01 3.05 (-.04) ↓
63°			133			VFS.					520° 158.50m				
			8			SH dk. grey									partial frac.
						Box 73									
			25			VFS									
			21			CRSH Fract.									partial brkn.
		155.81	25			VFS									solid.

M. Gant

JUNE 22 '89.

B C N	UNIT		THICKNESS		SAMPLE NO.	LITHOLOGY DESCRIPTION					MARKER rec. r.q.d. d.o.b	STR.	FRAC/m		FRACTURE TYPE AND CHARACTERISTICS
	From	To	Apparent	True		Strat. Lithology	Grain Size	Fresh Colour	Bedding Charact.	Other Sed. Charact.			bd.	it.	
	155.81		101	126		VFS									
											530	161.54m		3.13 3.05	(+0.08)
			32			SH									solid
				86		Box 74									
(63)		157.68	54			SH									
			43			DKSH dkgrsh									
			41			DKGRSH dksh; grdg to csh									brkn
	158.62		12			CA TOP F SEAM									
			4			CC									
			14			CA									Broken
			9	57		CB									
(60)			34	CA/B		CA									
			81			MC									
					4002	Box 75									
	160.37	31				Coal + Drill mud									
						↳ CC overall									

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DRILL CORE LOG



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PAGE No. 27.

G. Cane
M. Gant

JUNE 22 '89.

B C N	UNIT		THICKNESS		SAMPLE NO.	LITHOLOGY DESCRIPTION					MARKER rec. r.g.d. d.o.b	STR.	FRAC/m		FRACTURE TYPE AND CHARACTERISTICS				
	From	To	Apparent	True		Strat. Lithology	Grain Size	Fresh Colour	Bedding Charact.	Other Sed. Charact.			bd.	jt.					
					4002												2.74 3.05 (-.31)		
	160.37		38			CA												Semi-broken	
			14	60		CA												Broken.	
			16	}		CA												Solid.	
		55	1			CC													"
			38			CB.													"
			15			CB													
(60)			7	70 CB/C		CC													
			4			CB													
			5			CC												semi-brkn.	
			3			CD													
			9			CB													
			11			CC													
	162.09		11		CB														

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DRILL CORE LOG

 Quintette Coal Limited

HOLE No. QHDP9001

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B C N	UNIT		THICKNESS		SAMPLE NO. ↑	LITHOLOGY DESCRIPTION					MARKER rec. r.q.d. d.o.b	STR	FRAC/m		FRACTURE TYPE AND CHARACTERISTICS
	From	To	Apparent	True		Strat. Lithology	Grain Size	Fresh Colour	Bedding Charact.	Other Sed. Charact.			bd	jt	
	162.09				4002	Box 76									
	162.09		26	101 CB/C		CB overall									pulv.
			M			CC									pulv.
			20			CB overall.									pulv.
						(n.b. - loss ~ 5' core)					556 167.64 m			2.42 3.05 (-.63)	
	162.79		55	48	4003	(MR)									
	163.34		5			DKGRSH									
(60)			36			CA DKgrsh true thickness 3cm band of dkgrsh going through & drilling down dip s/s com thru									
			7			DKGRSH									
	163.82		89	26 CA/B	4004	(mc)									broken
	164.71		7			CA									
			6			CB									
			8			CB									solid
			5			CA									
	165.07		5			CC									

DRILL CORE LOG



HOLE No. QMD 89001
PAGE No. 29

G. Cane
H. Gant.

JUNE 22 '89.

B C N.	UNIT		THICKNESS		SAMPLE NO.	LITHOLOGY DESCRIPTION					MARKER rec. r.a.d. d.o.b	STR.	FRAC/m		FRACTURE TYPE AND CHARACTERISTICS	
	From	To	Apparent	True		Strat. Lithology	Grain Size	Fresh Colour	Bedding Charact.	Other Sed. Charact.			bd.	jt.		
	165.02		11		4004 ↓	CB										
			2			CA										
			8	4B CA/B.		CB										
(60)			15			CA										
			12			CB										
	165.59		9			CSH										
	165.59															

DRILL CORE LOG



B C N	UNIT		THICKNESS		SAMPLE NO.	LITHOLOGY DESCRIPTION					MARKER rec r.a.d. d.o.b	STR	FRAC/m		FRACTURE TYPE AND CHARACTERISTICS	
	From	To	Apparent	True		Strat. Lithology	Grain Size	Fresh Colour	Bedding Charact.	Other Sed. Charact.			bd.	jt.		
					4004											
	165.59		7	} 17 CA/B		CB										mostly solid
			10			CA										
			5			CC										"
			9			CA										"
			4			CC										"
			3			CSH										"
			15	} 45 CB/C		CC										"
			16			CB										"
			14			CC										partly broken
			21			CA										"
			2			CB										"
	166.69		4			CA										"

DRILL CORE LOG



HOLE No. QHD89001

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B C N	UNIT		THICKNESS		SAMPLE NO.	LITHOLOGY DESCRIPTION					MARKER rec. r.q.d. d.o.b	STR.	FRAC/m		FRACTURE TYPE AND CHARACTERISTICS	
	From	To	Apparent	True		Strat. Lithology	Grain Size	Fresh Colour	Bedding Charact.	Other Sed. Charact.			bd	jt.		
166.69	166.69		3		4004	CC									partly brkn	
			17	41 CB/C		CB										"
			21			CB										mostly solid
			34			CA										mostly brkn
			11			CB					560/170.60					$\frac{382}{3.05} + 27$
																BOX 78
			28			CB										brkn
			32 45			CB overall										badly brkn pulverised
			18 19	211 CA/B.		CB										brkn
	168.95		62			CB overall mixed CA-CB										badly brkn

240
DRILL CORE LOG

B C N	UNIT		THICKNESS		SAMPLE NO.	LITHOLOGY DESCRIPTION					MARKER rec r.g.d dob	STR	FRAC/m		FRACTURE TYPE AND CHARACTERISTICS
	From	To	Apparent	True		Strat. Lithology	Grain Size	Fresh Colour	Bedding Charact.	Other Sed. Charact.			bd	jt	
	168.93		14		4004	CA									
			12			CB									
			(2)		4005	MC									
	169.29		6			CC overall									
	169.29	169.64	25		4006	dkgrsh									
			(10)			missing rock									
			15		4006	CA									
			(7)			MC									
			9			"E"									
	170.08		13	22 CA/B		CA									

50/113.77

288 -14
305

Box 79

pulverized

mostly solid

badly broken to
pulverized

"

"

B C N	UNIT		THICKNESS		SAMPLE NO.	LITHOLOGY DESCRIPTION					MARKER rec r.q.d dob	STR	FRAC/m		FRACTURE TYPE AND CHARACTERISTICS
	From	To	Apparent	True		Strat. Lithology	Grain Size	Fresh Colour	Bedding Charact.	Other Sed Charact.			bd	ft	
	170.08		55		4006	CB overall								badly brkn to pulverized	
			5			CC								pulverized	
			13	43 CB/C		CB								"	
			25			CB								badly brkn to pulv.	
			14	28 CA/B		CA								"	
			14			CB								"	
			(80)			missing coal.					579/76.8			1.94 - 80 2.44	
			11			CB CD - sheared								brkn	
						Box 80									
			73			CB overall									brkn to pulv
	173.25		(27)		missing coal										

DRILL CORE LOG



HOLE No. GHD89001

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B C N	UNIT		THICKNESS		SAMPLE NO.	LITHOLOGY DESCRIPTION					MARKER rec. r.q.d d.o.b	STR	FRAC/m		FRACTURE TYPE AND CHARACTERISTICS	
	From	To	Apparent	True		Strat. Lithology	Grain Size	Fresh Colour	Bedding Charact.	Other Sed. Charact.			bd	jt		
	172.25		37	135 CB/c	4006	CB									pulverized	
			21			CB overall										"
			51			CC overall										"
			26			CB 30										badly brkn
								Box B1								
(60)			6	35 CB/c	4006	ch									mostly	
			23			CC CL										solid
			6			CB CB										"
	175.24		29			cc		- Bottom F SEAM						solid		
*			13	100	4006	ash overall									"	
(81)			30			dk grs										"
57	176.37		70			dk grsh										"
	176.37	176.64	27			dk sh										

DRILL CORE LOG

 Quintette Coal Limited

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B C N	UNIT		THICKNESS		SAMPLE NO.	LITHOLOGY DESCRIPTION					MARKER rec r.a.d dob	STR	FRAC/m		FRACTURE TYPE AND CHARACTERISTICS
	From	To	Apparent	True		Strat Lithology	Grain Size	Fresh Colour	Bedding Charact.	Other Sed Charact.			bd	ft	
	176.64		36												solid
			57												mostly
			(20)			MR					20/182.88				$\frac{2.85}{3.05} - 20$
			70												solid
(57)															
[80]			34			dksh									solid
			31			dk sh									"
			27			dk sh									
			23			csk									
	180.82		87			sh									solid

DRILL CORE LOG



Quintette Coal Limited

HOLE No. 20111

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B C N	UNIT		THICKNESS		SAMPLE NO.	LITHOLOGY DESCRIPTION					MARKER rec r.g.d. d.o.b	STR	FRAC/m		FRACTURE TYPE AND CHARACTERISTICS
	From	To	Apparent	True		Strat. Lithology	Grain Size	Fresh Colour	Bedding Charact.	Other Sed. Charact.			bd	jt.	
	180.02		64	159		sh									solid
(57)											619/185.31				$\frac{3.29}{2.11} + 85$
↓			18			as above									"
65			64			sh; fissile, partly hearing									solid
			64			crsh; carb; plant frag									"
						Box 85									
			30			dksh; fissile; carb laminae									solid
60°			155			sh; interbdd c crsh; fissile									"
				165							619/188.67				$\frac{3.31}{3.35} - 4$
			10			sh									solid
*						Box 86									
55°	186.26		149			sh; interbdd c vls; rust-coloured staining									solid
↓															

DRILL CORE LOG

 Quintette Coal Limited

HOLE No. QHD89001

PAGE No. 37

B C N	UNIT		THICKNESS		SAMPLE NO.	LITHOLOGY DESCRIPTION					MARKER rec. r.q.d. d.o.b	STR	FRAC/m		FRACTURE TYPE AND CHARACTERISTICS
	From	To	Apparent	True		Strat. Lithology	Grain Size	Fresh Colour	Bedding Charact.	Other Sed. Charact.			bd	jt	
↑	186.26		61												solid
			90												solid
67'															
*			91												
			28												"
60'			94												solid
			81												"
			23												
↓	192.72		178												solid

DRILL CORE LOG



Quintette Coal Limited

HOLE No. QHD89001

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B C N	UNIT		THICKNESS		SAMPLE NO.	LITHOLOGY DESCRIPTION					MARKER rec r.g.d. dob	STR	FRAC/m		FRACTURE TYPE AND CHARACTERISTICS
	From	To	Apparent	True		Strat. Lithology	Grain Size	Fresh Colour	Bedding Charact.	Other Sed. Charact.			bd	jt	
70°	192.72		30			ms									
			31			fs									solid
			80												
*			(12)			MR					198.12				3.19 = 16 3.35
45°			90			vfs: rust staining; possible concretions									
						Box 90									
				216											
			126			vfs: turbid to ss									
65°			78			ms; calc-filled frags. perpend. to bedding									
				134											
	197.60		41			ms; calc-filled frags									
											160/201.13				3.35 + 30 3.05

B C N	UNIT		THICKNESS		SAMPLE NO.	LITHOLOGY DESCRIPTION					MARKER rec r.g.d dob	STR	FRAC/m		FRACTURE TYPE AND CHARACTERISTICS	
	From	To	Apparent	True		Strat. Lithology	Grain Size	Fresh Colour	Bedding Charact.	Other Sed. Charact.			bd	jt		
↓	197.60		15	} 260		ms										
(60)			11			ssh interbedded with calc-filled fm										
			17			inter										
*			65			carb p.fra										
	200.76															
5'			142													
			11													
	201.96		23		4010	cc										
						ca										
						cc										

667/2391

$\frac{2.83}{2.97} + 9$

Box 14

B C N	UNIT		THICKNESS		SAMPLE NO.	LITHOLOGY DESCRIPTION					MARKER rec. r. q. d. d. o. b.	STR	FRAC/m		FRACTURE TYPE AND CHARACTERISTICS		
	From	To	Apparent	True		Strat. Lithology	Grain Size	Fresh Colour	Bedding Charact.	Other Sed. Charact.			bd	jt.			
					4010												
	201.93		33	83 CB/A													
			11				CB overall										mostly silty
			(4) 16			MC											lat. bed. s paly.
(53)			17			CC											silty
			3	88 CB/E		CB overall											"
			29				CB										
			20			CB											silty
			3			CC											"
	203.48		16			CA											"

DRILL CORE LOG



HOLE No. QHD89061

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B C N	UNIT		THICKNESS		SAMPLE NO.	LITHOLOGY DESCRIPTION					MARKER rec r.a.d d.o.b	STR	FRAC/m		FRACTURE TYPE AND CHARACTERISTICS
	From	To	Apparent	True		Strat. Lithology	Grain Size	Fresh Colour	Bedding Charact.	Other Sed. Charact.			bd	fl	
	203.48	203.56	B	24 CB/A	4018	CB									
(60)	203.56		20			dksh									
↑					4019				Box 96 (M. Gant scribe)						
65°	204.16		40			SH									solid
	204.16		95 40			CA = 10% mix CB overall missing coal				690/2031					broken - pulverized 2.09 - 26 2.35
65°			38			CB									Mostly solid
				53	4020		Box 97								
			15			CB									semi-solid
60°			17			CSH (parting 4cm grd CD-CSH Coal TOP (parting) CSH (int grds CSH))									"
	206.27		6			CB									"
60°	206.27	207.48	121		4021	SSH	carb pl. r.m.s.								solid

DRILL CORE LOG



HOLE No. QHD89001

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B C N	UNIT		THICKNESS		SAMPLE NO.	LITHOLOGY DESCRIPTION					MARKER rec r. ad dob	STR	FRAC/m		FRACTURE TYPE AND CHARACTERISTICS		
	From	To	Apparent	True		Strat. Lithology	Grain Size	Fresh Colour	Bedding Charact.	Other Sed. Charact.			bd	jt			
	207.48		42		4022	CB									Semi-solid		
			4	143 CA/E		CA										mostly solid	
(60)			4			CB										"	
			46				CB										"
			47				CA										"
			①7				MISSING coal										
*	209.23	209.23	15			4023	CA					100/213.3L				378 + 43. 3.05	
	209.23		10			DKGRSH									partly brkn		
			16			CA									"		
			12			ssh (grading to CD)									"		
			7			DKSH									mostly solid		
			6			CSH											
(63)			1			CD											
			3			CB											
			2			DKSH											
			13			CC overall (CB-CD)											
*	210.14	210.14	11		4024	DFSH											
(65)	210.21	210.21	7			ssh (grading CC-DKSH)									Brkn, Brkn		
						DKSH											
															Box 99		

B C N	UNIT		THICKNESS		SAMPLE NO.	LITHOLOGY DESCRIPTION					MARKER rec r.a.d. dob	STR	FRAC/m		FRACTURE TYPE AND CHARACTERISTICS
	From	To	Apparent	True		Strat. Lithology	Grain Size	Fresh Colour	Bedding Charact.	Other Sed. Charact.			bd	jt	
	210.21		6			CB									broken
55°			169	167		MS	intbdd	>H1	coal lamellae (1-4mm)						solid
															2.74 - 31 3.05
*		212.25	31			A/A									solid
								BOX 10 ²							
(55)	212.25		31			FS		brown stain							solid
*			84	181		MS		1 → 3mm intbdd	FS (black-carbonized)						solid
good - 48°			2			SSH									solid
								BOX 101							
*			70			SSH									"
			43			MS	intbdd		FS (ave 3mm dk grey)						"
															3.41 + 56 3.55
fair - 62°	216.07		55			A/A			coal lam. (not abdt.)						solid

DRILL CORE LOG

 Quintette Coal Limited

HOLE No. QHD89001

PAGE No. 41

B C N	UNIT		THICKNESS		SAMPLE NO.	LITHOLOGY DESCRIPTION					MARKER rec r.q.d d.o.b	STR	FRAC/m		FRACTURE TYPE AND CHARACTERISTICS
	From	To	Apparent	True		Strat. Lithology	Grain Size	Fresh Colour	Bedding Charact.	Other Sed. Charact.			bd	jt	
	216.07		41	10		CB									broken-pulv.
			65			MS	minor intbdd dk grey f.s. contorted bddg.								solid
			170 DK												
				267			Box 102								
						MS	intbdd w dk grey thin f.s.								solid
											730/222.51				3.03 305 -2
	65		32			A/A									solid
							Box 103								
	59		22			MS									solid
			92			FS	intbd MS								solid
			21			CRSH									"
			66			DKGRSH									"
				140			Box 104								
			74			DKGRSH									partly broken

DRILL CORE LOG

B C N	UNIT		THICKNESS		SAMPLE NO.	LITHOLOGY DESCRIPTION					MARKER rec c.g.d. d.o.b	STR	FRAC/m		FRACTURE TYPE AND CHARACTERISTICS
	From	To	Apparent (cm)	True		Strat. Lithology	Grain Size	Fresh Colour	Bedding Charact.	Other Sed Charact.			bd	fl	
															$\frac{309}{3.08}$ 12
↑	221.59		121.19	308											solid
60°			192.189												solid
* ↓			15	163											solid
70°			150.198												solid
			38												solid
			8												solid
↓ (65)	227.60		84												solid
															$\frac{296}{3.03}$ -10

DRILL CORE LOG



HOLE No. QMD89001

PAGE No. 46

B C N	UNIT		THICKNESS		SAMPLE NO.	LITHOLOGY DESCRIPTION					MARKER rec r, q, d dob	STR	FRAC/m		FRACTURE TYPE AND CHARACTERISTICS
	From	To	Apparent	True		Strat. Lithology	Grain Size	Fresh Colour	Bedding Charact.	Other Sed. Charact.			bd	jt.	
(65) *	227.60		74	150		SSH								solid	
			23	42		MS	carb. pl. rmns (stringers)							solid	
			19				MS	massive							solid
			46			SSH								solid	
59°			129	144		MS								solid	
			16 15				MS								partly broken
* 67°			174 172	300		MS	occ. SSH intbd: (up to 2cm true thick)							solid	
			128												
↓	233.66		120			MS-CRS	grading gradual to MS							solid	

Box 108

Box 109

Box 110

770/234.40

304
305

780/234.74

304 -1
305

DRILL CORE LOG



Quinta Coal Limited

HOLE No. QHD89001

PAGE No. 47

B C N	UNIT		THICKNESS		SAMPLE NO.	LITHOLOGY DESCRIPTION					MARKER rec r.g.d. d.o.b	STR	FRAC/m		FRACTURE TYPE AND CHARACTERISTICS
	From	To	Apparent	True		Strat. Lithology	Grain Size	Fresh Colour	Bedding Charact.	Other Sed. Charact.			bd	jt	
↑	233.66		22			CRSH								solid	
			26			FS								solid	
			21			MS								solid	
						Box 111									
fair - 65°			209			MS	occ intbd v thin siltst. beds (1-2mm)							solid	
						Box 112									
			2120			SH								semi-broken	
														2.99 1.05 -11	
			28*			SSH	broken pieces w drill mud. (15%)							broken	
						*Not included in tally									
			30			FS	intbd SH							solid	
65°			107			MS	intbd SSH (2mm → 1cm)							solid	
						Box 113									
* (70)	238.42	51				SH	w FS lam. (density contrast flame structures)							solid	

DRILL CORE LOG



Quintette Coal Limited

HOLE No. QHD89001

PAGE No. 48

B C N	UNIT		THICKNESS		SAMPLE NO.	LITHOLOGY DESCRIPTION					MARKER rec r.q.d d.o.b	STR	FRAC/m		FRACTURE TYPE AND CHARACTERISTICS
	From	To	Apparent cm	True		Strat. Lithology	Grain Size	Fresh Colour	Bedding Charact.	Other Sed Charact.			bd	jt	
	238.47		107	163		ES	intbed	SH	(equal thicknesses)					solid	
															$\frac{3.33}{3.05} + 28$
excellent →	75"		56	200		A/A								solid	
(65)															
			202	200		SH		massive, featureless	fine lam. of VFS (occ)					solid	
*			50-46	559		CRSH		mural frac.	(rt. angles)					broken	
															$\frac{3.08}{3.05} + 13.$
(55)			152-145	559		A/A								partly - broken	
			154	559		CRSH		carb. pt. rims.	dk. grey					solid	
															$\frac{3.08}{3.05} + 1$
	245.99		44			A/A		s/s	@ 821'						

DRILL CORE LOG

 Quintette Coal Limited

HOLE No. QHD89001

PAGE No. 49

B C N	UNIT		THICKNESS		SAMPLE NO.	LITHOLOGY DESCRIPTION					MARKER rec r. a. d. d. o. b.	STR	FRAC/m		FRACTURE TYPE AND CHARACTERISTICS
	From	To	Apparent	True		Strat. Lithology	Grain Size	Fresh Colour	Bedding Charact.	Other Sed. Charact.			bd	jt	
						Box 117									
55	245.99	247.69	180	170		CRSH									partly broken
												827/28.04			224 213 +11
	247.69		17	16		SH									partly broken
			7			DKGRSH									partly broken
			3			CSH									"
						Box 118									
*		248.11	18	16		SH									broken
	248.11		113			CB overall									broken.
(65)			30			CB									10.5 3.0% (-140)
			37			CC overall									broken-pulv.
	250.47		(56)			missing coal									

B C N	UNIT		THICKNESS		SAMPLE NO.	LITHOLOGY DESCRIPTION					MARKER rec r.q.d. d.o.b	STR	FRAC/in		FRACTURE TYPE AND CHARACTERISTICS
	From	To	Apparent	True		Strat. Lithology	Grain Size	Fresh Colour	Bedding Charact.	Other Sed. Charact.			bd	it.	
						Box 119									
	250.47		32	42 cb/c	4024	CB								partly broken.	
	↓	250.89	10			CC									mostly solid.
Fair	77	250.89	160	167		DKGRSH	carb. pl. r.mns								
							Box 120								
		252.56	7		DKGRSH									broken.	
	252.56	252.84	28			CB								broken	
			37 ³⁸			CSH								broken	
			69 ⁶³	96		DKSH	carb. pl. r.mns.							partly broken	
		254.15	37 ³⁵			A/A								partly broken	
	254.15	254.42	27			CB								broken	
						Box 121									
↓		254.80	38			SH	in the w FS							solid	

DRILL CORE LOG



HOLE No. QHDB9061

PAGE No. 51

B C N	UNIT		THICKNESS		SAMPLE NO.	LITHOLOGY DESCRIPTION					MARKER rec r.q.d dob	STR	FRAC/m		FRACTURE TYPE AND CHARACTERISTICS
	From	To	Apparent	True		Strat. Lithology	Grain Size	Fresh Colour	Bedding Charact.	Other Sed. Charact.			bd	jt	
75	254.80		40			FS			intbd SH						Solid
			34			CRSH									Solid
	255.54		61	59		DKGRSH									partly broken
		256.53	42	40		CSH									broken
			Box 122												
	256.53		210			MS			intbd, carbonized lamellae						Solid
			5			CSH									broken
			Box 123												
			30			MS			massive						Solid
															864/713.85
			42			MS			calc. fl. frac. at base of MS.						Solid
	259.10		36			CRSH									partly broken
		259.99	23			DKSH									partly broken
↓	259.99	260.14	(15)			MR									

B C N	UNIT		THICKNESS		SAMPLE NO.	LITHOLOGY DESCRIPTION					MARKER rec. r.g.d dob	STR	FRAC/m		FRACTURE TYPE AND CHARACTERISTICS
	From	To	Apparent cm	True		Strat. Lithology	Grain Size	Fresh Colour	Bedding Charact.	Other Sed. Charact.			bd	jt	
↑	260.14		18			CB	overall								broken
		260.50	(18)			MC									
70°	260.50		46			FS	calc. tl. frac. ↓ bdg.								solid.
						Box 124									
*			79			CRSH									partly broken
			13			DKGRSH									"
			23			DKGRSH									partly broken
			17			CRSH									solid
65°		262.90	62			FS									solid
						Box 125									
	262.90		22			FS	carb. thin lam.								solid
↓		263.49	37			CRSH	grading to DKGRSH								mostly solid.
(68)	263.49	263.66	21	↓	↑ 4025	CB									badly broken

DRILL CORE LOG

 Quintette Coal Limited

HOLE No. QHD89001

PAGE No. 53

B C N	UNIT		THICKNESS		SAMPLE NO.	LITHOLOGY DESCRIPTION					MARKER rec. r.q.d dob	STR	FRAC/m		FRACTURE TYPE AND CHARACTERISTICS		
	From	To	Apparent	True		Strat Lithology	Grain Size	Fresh Colour	Bedding Charact.	Other Sed. Charact.			bd	jt			
					4025											1.78 7.22 - 4	
	263.64		74 (41)			CB overall CA to CC missing coal											badly broken - pulverized
		264.90	4			CC											pulverized
68°		265.37	47			FS intbd VFS ^{acc} cak. fl. fac.											mostly solid
*						Box 126											
80°	265.51		52			FS											solid
			50			VFS											mostly solid
			100			DKGRSH											partly broken
						Box 127											
			133			CRSH carb. pl. imns (dinosaur tracks abnt.)											mostly solid - partly broken
*																	
(75)	268.72	269.93	121		4026A	CB overall											broken

21
DRILL CORE LOG

B C N	UNIT		THICKNESS		SAMPLE NO.	LITHOLOGY DESCRIPTION					MARKER rec. r.g.d. d.o.b	STR	FRAC/m		FRACTURE TYPE AND CHARACTERISTICS
	From	To	Apparent	True		Strat. Lithology	Grain Size	Fresh Colour	Bedding Charact.	Other Sed. Charact.			bd	fl	
	276.19		120 ⑦		4026A	CB overall; mix of CA to CC MISSING COAL					915/278.89			puccered badly brkn 1.73 2.44	
			22			CA								brkn	
							Box 130								
			37			CB							badly brkn		
(75)			25			CA							"		
*			9			CC							"		
(70)			34			CA							"		
			8			CC							"		
			42			CB							"		
	274.64		41			CA							"		

338
DRILL CORE LOG

B C N	UNIT		THICKNESS		SAMPLE NO.	LITHOLOGY DESCRIPTION					MARKER rec. r. a. d. d. o. b.	STR	FRAC / m		FRACTURE TYPE AND CHARACTERISTIC			
	From	To	Apparent	True		Strat. Lithology	Grain Size	Fresh Colour	Bedding Charact.	Other Sed. Charact.			bd	ii.				
						Box 131												
	274.64.		13		4016A	CA											badly brkn	
			29			CB												"
70'			7			CC												"
			40			CA												"
			19			CC												"
			58			CB												"
			8			CC												"
			30			CB overall												pulverized (powder)
						Box 132												
	276.92		14		4016B	CC												brkn

928/282.85

245
273 +2.

DRILL CORE LOG


Oubette Coal Limited

HOLE No. QHD 89001

PAGE No. 57

QHD89002 DRILL CORE LOG

Logged: T. Wall, R. Kostiuik, M. Gant

Sampled: August 1989

Samples: 4007 - 4017

Core Boxes: 1 - 57

Pages: 1 - 40

B C N	UNIT		THICKNESS		SAMPLE NO.	LITHOLOGY DESCRIPTION					MARKER rec. r.g.d. d.o.b	STR.	FRAC/m		FRACTURE TYPE AND CHARACTERISTICS	
	From	To	Apparent	True		Strat. Lithology	Grain Size	Fresh Colour	Bedding Charact.	Other Sed. Charact.			bd	jt.		
	279.57		40		4026B	CB									solid at top, rest brkn	
			58			CA										brkn
			17			CB										"
			21			CB										partly solid
			3			CC										"
			23			CB										"
			3			CC										"
			54		CA										brkn	
			12		CB										mostly solid	
	282.02		6		CA										partly solid	

96
CA/B

Box 134

29
CB/C

83
CA/B

245
DRILL CORE LOG



HOLE No. QAD 89001
PAGE No. 60

B C N	UNIT		THICKNESS		SAMPLE NO.	LITHOLOGY DESCRIPTION					MARKER rec. r.q.d. d.o.b	STR	FRAC/m		FRACTURE TYPE AND CHARACTERISTIC	
	From	To	Apparent	True		Strat. Lithology	Grain Size	Fresh Colour	Bedding Charact.	Other Sed. Charact.			bd.	jt.		
	292.02		11		4026B	CB									partly solid	
			12			CC										mostly solid
			2			CB										"
			16			CC										"
			14			CB										"
			8			CB overall										brkn to pulv
	293.32		8			CC										

130

DRILL CORE LOG



Quintette Coal Limited

HOLE No. QHD 89601

PAGE No. 61

B C N	UNIT		THICKNESS		SAMPLE NO.	LITHOLOGY DESCRIPTION					MARKER rec. r.a.d. d.o.b	STR.	FRAC/m		FRACTURE TYPE AND CHARACTERISTICS
	From	To	Apparent	True		Strat. Lithology	Grain Size	Fresh Colour	Bedding Charact.	Other Sed Charact.			bd	jt.	
	283.32		12		4026B	CA								partly broken	
			16			CC									"
			5			CA									"
			4	} 34 CB/C		CC									"
(70)			30			CB									
			36	} 67 CA/B		CA									"
			31		CB										"
*	284.75		9		CC ocs shaly (END TSEAM) Box 136										
	284.75		20		CD									brkm	
(75)	285.29		34		CSH									mostly solid	
					4027									264 272 +51	
											951/287.86				

DRILL CORE LOG

B C N	UNIT		THICKNESS		SAMPLE NO.	LITHOLOGY DESCRIPTION					MARKER rec r.g.d d.ob	STR	FRAC/m		FRACTURE TYPE AND CHARACTERISTICS
	From	To	Apparent	True		Strat. Lithology	Grain Size	Fresh Colour	Bedding Charact.	Other Sed. Charact.			bd	jt.	
	292.30		73			cish. sil. fl.								solid	
(32)			66											"	
*			41	53		vfs								"	
															"
30°			12	61		vfs, as above					920/298.10			1.77 2.74 -97	
			11				fs							"	
						Box 141									
			50			fs interbedded with ssh								solid	
			100			ms								"	
			49			dkgrsh								"	
	296.41		12			fs								"	
						Box 142									

B C N	UNIT		THICKNESS		SAMPLE NO.	LITHOLOGY DESCRIPTION					MARKER rec r.a.d. d.o.b	STR	FRAC/m		FRACTURE TYPE AND CHARACTERISTICS
	From	To	Apparent	True		Strat. Lithology	Grain Size	Fresh Colour	Bedding Charact.	Other Sed Charact.			bd	jt.	
	296.41		57	} 69		fs								solid	
			10				dkgrsh								"
										119/301.35				3.01 -4 3.03	
20"			49			fs								solid	
			84	} 162		dkgrsh								"	
								Box 14?							
*			70			dkgrsh								partly brkn	
										997.5/304.07				2.11 -18 2.29	
82			103	} 173		fs									
								Box 194							
			10			fs								solid	
	30230		132			ms to cs								"	

DRILL CORE LOG



Quintette Coal Limited

HOLE No. QHD89001

PAGE No. 67

B C N	UNIT		THICKNESS		SAMPLE NO.	LITHOLOGY DESCRIPTION					MARKER rec r.q.d. d.ob	STR	FRAC/m		FRACTURE TYPE AND CHARACTERISTICS	
	From	To	Apparent	True		Strat. Lithology	Grain Size	Fresh Colour	Bedding Charact.	Other Sed Charact.			bd	jt.		
																$\frac{3.11}{3.05} + 6$
	302.30		214						ms. to cs							
									Box 145							
									Box 146							
									as above							
			90													$\frac{3.04}{3.05} - 1$
				737												
									as above							
	308.29		185						as above							
									END OF HOLE							

DRILL CORE LOG.

 Quintette Coal Limited

HOLE No. 1025/3122
PAGE No. 68

QHD89002 DRILL CORE LOG

Logged: T. Wall, R. Kostiuik, M. Gant

Sampled: August 1989

Samples: 4007 - 4017

Core Boxes: 1 - 57

Pages: 1 - 40

B C N	UNIT		THICKNESS		SAMPLE NO.	LITHOLOGY DESCRIPTION					MARKER rec. r.q.d. d.o.b.	STR.	FRAC/m		FRACTURE TYPE AND CHARACTERISTICS
	From	To	Apparent	True		Strat. Lithology	Grain Size	Fresh Colour	Bedding Charact.	Other Sed. Charact.			bd.	jt.	
	6.10		1.29			VFS, aa									
						BOX 3									
			1.19			VFS, aa									Solid
			0.57			MR.									
										9.14/30'					2.48 3.05 (-.57)
			0.85			VFS, gradg to CSH, carb ip, biotrb									"
						BOX 4									
			2.11			VFS gradg to FS, biotrb, occ hi angle frac w/calc infil, carb plant rms thru, Fe str thru									Solid
						BOX 5									
			0.14			VFS gradg SS4, carb ip, biotrb									"
										12.19/40'					3.10 3.05 (+.05)
	14.20		1.95			VFS, loc gradg to FS, biotrb, carb ip, occ hi angle frac w/calc infil and Fe str.									Solid
(14)															

B C N	UNIT		THICKNESS		SAMPLE NO.	LITHOLOGY DESCRIPTION					MARKER rec. r.q.d. d.o.b	STR.	FRAC/m		FRACTURE TYPE AND CHARACTERISTICS
	From	To	Apparent	True		Strat. Lithology	Grain Size	Fresh Colour	Bedding Charact.	Other Sed. Charact.			bd.	jt.	
						BOX 6									
14°	14.20		0.16	} 211		VFS, aa,									solid
↑			0.77				FS, SSH and VFS lams thru, carb mat thru biotrb top .33m								
*			0.10	} 98		VFS g/lg to SSH, carb, biotrb									"
			0.88				VFS, aa, occ calc fld fine w/assoc Fe stn biotrb thru					15.24/50'			2.98 3.05 (-.07)
10°															
*						BOX 7									
11°			1.61			VFS, SSH intrbd, biotrb, carb ip									solid
			0.28			SSH, sl carb, biotrb									
*			0.22			VFS, aa									Solid
(7)	18.29		0.07			SSH, carb ip, sid coats, hi angle frac					18.29/60'				partly broken 3.06 3.05 (+.01)

17.12

DRILL CORE LOG



Quintette Coal Limited

HOLE No. QHD 89002

PAGE No. 3 of 40

B C N.	UNIT		THICKNESS		SAMPLE NO.	LITHOLOGY DESCRIPTION					MARKER rec. r.g.d. d.o.b.	STR.	FRAC/m		FRACTURE TYPE AND CHARACTERISTICS
	From	To	Apparent	True		Strat. Lithology	Grain Size	Fresh Colour	Bedding Charact.	Other Sed. Charact.			bd.	jt.	
	18.29		0.79	0.86											Solid
			0.48												Solid
			0.38												Solid
7°			0.31												Solid.
*															
10°			0.70												Solid.
			0.05												
			1.44												Solid
*															
13°	23.17		0.73												Solid.
	23.17	23.35	0.18												broken

DRILL CORE LOG



HOLE No. QHD 89002

PAGE No. 4 of 40

B C N	UNIT		THICKNESS		SAMPLE NO.	LITHOLOGY DESCRIPTION					MARKER rec. r.q.d. d.o.b	STR.	FRAC/m		FRACTURE TYPE AND CHARACTERISTICS
	From	To	Apparent	True		Strat. Lithology	Grain Size	Fresh Colour	Bedding Charact.	Other Sed. Charact.			bd.	jt.	
	23.35		0.05			DKGRSH, incrg carb, coal lam to 1mm con,								partly broken	
			0.11			SH, aa, slickensided frac								Solid	
		23.60	0.09			DKGRSH, aa.								Solid	
													2.60 2.74 (-.14)		
	23.60	23.61	0.01		4007	CSH, slicked					24.08/77			broken	
	23.61		0.03			CB								pulverized	
			0.01			CSH,									
(13)			0.03			CD								Broken	
			0.10			CA								partly broken	
			0.09			CB overall, CD-CA mixed								badly broken - pulverized	
			0.04			MC									
			0.03			CA								Solid	
	24.10		0.16			CB, predom brittle vit, occ dull bands								Solid	

DRILL CORE LOG

 Quintette Coal Limited

HOLE No. DHD 89002

PAGE No. 5 of 40

B C N	UNIT		THICKNESS		SAMPLE NO. ↑	LITHOLOGY DESCRIPTION					MARKER rec. r.q.d. d.o.b.	STR.	FRAC/m		FRACTURE TYPE AND CHARACTERISTICS
	From	To	Apparent	True		Strat. Lithology	Grain Size	Fresh Colour	Bedding Charact.	Other Sed. Charact.			bd.	jt.	
	24.10		0.02		4007	CD									solid
(15)		24.17	0.05		↓	CC									Solid
			0.06			DKGRSH									badly broken
			0.23			SH, carb ip, Fe stn along bedding plane frac									broken
						BOX 11									
			0.04			DKGRSH, coal lam to 1mm common thru									broken
	24.64		0.14			SH, carb qdgs to DKGRSH, occ coal lam to 1mm									broken
	24.64		0.83			MR									
											25.91/85'				$\frac{1.00}{1.83} (-.83)$ marker 80' missing
17°			0.82			CrSH, carb, occ VFS lam									Solid
	26.59		0.30			DKGRSH, coal lam to 5mm com thru									"
											27.13/89'				$\frac{1.12}{1.22} (-.10)$

B C N	UNIT		THICKNESS		SAMPLE NO.	LITHOLOGY DESCRIPTION					MARKER rec. r.g.d. d.o.b	STR.	FRAC/m		FRACTURE TYPE AND CHARACTERISTICS
	From	To	Apparent	True		Strat. Lithology	Grain Size	Fresh Colour	Bedding Charact.	Other Sed. Charact.			bd.	jt.	
	26.59		0.15			SH, carb ip								Solid	
			0.09			DKGRSH aa								Solid	
			0.13			SH, loc silty								Solid	
(17)			0.05			DKGRSH, thin coal lam thin								Solid	
			0.26			SH, silty ip grdg to CrSH, sl carb								Solid	
						BOX 12									
			0.16			CrSH, biotrb carb pl runs thru								Solid	
*			0.08			SSH, grdg, VFS, biotrb, carb								Solid	
14°			0.32			VFS, interbed SSH, carb thru, biotrb								Solid	
			0.21			SH, loc silty, fining down, some incising carb downwards, calc and/or Hem filled wispy flux that gen follow bedding planes								Solid	
↓	28.07		0.03			MR									
										28.65/94'				1.45 (-.07) 7.52 marker 90' missing	

DRILL CORE LOG

 Quintette Coal Limited

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B C N	UNIT		THICKNESS		SAMPLE NO.	LITHOLOGY DESCRIPTION					MARKER rec. r.a.d. d.o.b	STR.	FRAC/m		FRACTURE TYPE AND CHARACTERISTICS	
	From	To	Apparent	True		Strat. Lithology	Grain Size	Fresh Colour	Bedding Charact.	Other Sed. Charact.			bd.	jt.		
↑	28.07		0.32 0.08			MR									partly broken	
			1.14	} 125		SH: loc silty, loc grd q to DKGRSH w/thin coal lami, carb thru									solid	
			0.11				SA, aa									Solid
			0.18				CSH, loc grd q to SSH, biotrb, carb plant rmas thru									Solid
				} 63												
			0.45				CSH, aa									Solid
19°			0.75			VFS, interbd SSH, biotrb, carb, plant rmas thru									Solid	
	31.71		0.61	↓		SSH, loc grd q to VFS, interbbd GSH, carb plant rmas some thru, biotrb									Solid	
						BOX 1A										

B C N	UNIT		THICKNESS		SAMPLE NO.	LITHOLOGY DESCRIPTION					MARKER rec. r.g.d. d.o.b	STR	FRAC/m		FRACTURE TYPE AND CHARACTERISTICS
	From	To	Apparent	True		Strat. Lithology	Grain Size	Fresh Colour	Bedding Charact.	Other Sed. Charact.			bd.	jt.	
	31.71		0.22	} 03		SSH, aa									
(1A)			0.10				VFS biotrb, occ carb plant mins								Solid
✱			0.25			CrSH, aa									
			0.16			FS, gradg to MS, hi angle calc infill frac carb plant mat thru								Solid	
			0.36			CrSH biotrb, loc sandy, carb ip								Solid	
			(0.15)			MR									
											35.53/110'			2.90 3.05 (-0.15)	
			0.21			CrSH, occ high angle calc filled frac									
			0.41			VFS, abnt calc filled high angle frac approx + to bedding, cryst calc filled vug w/xc'ls to 5mm								Solid	
21°	33.81		0.24	} 06		CrSH, silty ip, carb, wispy calc infill along bedding planes								Solid	
							BOX 15								



B C N.	UNIT		THICKNESS		SAMPLE NO.	LITHOLOGY DESCRIPTION					MARKER rec. r.g.d. d.o.b	STR.	FRAC/m		FRACTURE TYPE AND CHARACTERISTICS
	From	To	Apparent	True		Strat. Lithology	Grain Size	Fresh Colour	Bedding Charact.	Other Sed. Charact.			bd.	jt.	
(21)	33.81		0.62			CrSH, aa									Solid
*			0.10			VFS interbed FS, biotrb									Solid
			0.29			FS gradg to VFS, biotrb, mnr interbed SSH, mnr frac w/ calc infil									Solid
			0.16			SSH, biotrb, carb ip									Solid
			0.60			VFS, loc grad FS, bioturb, carb pl rmas thru									Solid
17P			0.18			SSH, loc gradg to VFS, aa									Solid
				34		Box 16									
17P			0.16			SSH, occ calc fill frac w/ Fe stn, carbip									Solid
			0.08			MR									2.97 3.05 (-.08)
			0.18			MR									
			0.03			VCS gradg to sm. peb congl,									badly broken
*															
(18)	37.78		1.57			SH loc silty, calc fill frac thru w/ assoc them stn, carb.									broken

DRILL CORE LOG

B C N	UNIT		THICKNESS		SAMPLE NO.	LITHOLOGY DESCRIPTION					MARKER rec. r.a.d. d.o.b.	STR.	FRAC/m		FRACTURE TYPE AND CHARACTERISTICS
	From	To	Apparent	True		Strat. Lithology	Grain Size	Fresh Colour	Bedding Charact.	Other Sed. Charact.			bd.	jt.	
						BOX 17									
	37.78		0.29	} 106		SH, aa									broken
			0.04			CC,									pulverized
18°			0.11			SH, carb ip, loc silty									partly broken
*			0.75			SSH, biotrb, loc carb (top 9cm)									Solid
(20)			0.08			VFS, kaotic calc veining thru, biotrb									"
31°															
*															
			0.59			SH, carb ip, loc gradg DKERSH, loc silty									Solid
						BOX 18									
21°			0.10			DKERSH, silty ip, coal lam to 2mm com thru									Solid
			0.34			SH, aa									Solid
↓	40.43		0.35			CrSH, carb ip,									Solid

37.62/130'

2.87
3.05 (-.18)

B C N.	UNIT		THICKNESS		SAMPLE NO.	LITHOLOGY DESCRIPTION					MARKER rec. r.q.d. d.o.b.	STR.	FRAC/m		FRACTURE TYPE AND CHARACTERISTICS
	From	To	Apparent	True		Strat. Lithology	Grain Size	Fresh Colour	Bedding Charact.	Other Sed. Charact.			bd.	jt.	
↑	40.43		0.06			VFS, grdy SSH, biotrb, calc veining follows bedding planes								Solid	
			0.10			FS, ^{pl} VFS lam abnt calc veining at low angle bedding, biotrb								Solid	
			0.32			SSH, extremely bioturbated, loc grdy VFS, carb pl rmns thru, occ calc veining								Solid	
			0.57			CrSSH; carb ip, occ calc veining,								Solid	
			0.07			SSH, carb pl rmns com thru								Solid	
(18)			0.23	} 52		VFS, bioturb, carb ip, occ calc vein								Solid	
							BOX 19								
			0.29			VFS, intrb FS, bioturb, occ calc veining, occ carb pl rmns								Solid	
										42.67/140'					
														$\frac{3.02}{3.05}$ (-0.03)	
		43.17	1.10			SSH, biotrb, carb ip								Solid	

B C N	UNIT		THICKNESS		SAMPLE NO.	LITHOLOGY DESCRIPTION					MARKER rec. r.a.d. d.o.b.	STR.	FRAC/m		FRACTURE TYPE AND CHARACTERISTICS
	From	To	Apparent	True		Strat. Lithology	Grain Size	Fresh Colour	Bedding Charact.	Other Sed. Charact.			bd	jt.	
18	43.17		0.22			VFS : interbed SS+ high angle calc veining w/ assoc Hem stn, carb pl mat thru								Solid	
			0.22			SSH, carb, ip								Solid	
			0.18			SSH, carb ip								Solid	
						BOX 20									
			0.14			SSH, aa								Solid	
			0.13			SSH, biotrb, loc grdy VFS								Solid	
			0.20			VFS, interbed FS, biotrb								Solid	
			0.79			SSH, ^{carb} biotrb, carb pl rims thru, loc sandy biotrb								Solid	
											45.72/150'			2.98 3.05 (-.07)	
			0.20			SSH, aa								Solid	
	45.44		0.19			VFS, biotrb, carb pl rims thru								Solid	

DRILL CORE LOG

 Quintette Coal Limited

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B C N.	UNIT		THICKNESS		SAMPLE NO.	LITHOLOGY DESCRIPTION					MARKER rec. r.q.d. d.o.b.	STR.	FRAC/m		FRACTURE TYPE AND CHARACTERISTICS
	From	To	Apparent	True		Strat. Lithology	Grain Size	Fresh Colour	Bedding Charact.	Other Sed. Charact.			bd.	jt.	
	45.44		0.17			SSH, grdy to VFS, biotrb, abnt carb pl rms thru								Solid	
26°			0.28			VFS, carb SSH lam thru, biotrb								Solid	
						BOX 21									
			0.44			VFS, grdy to FS, occ calc fill frac bottom 15cm abnt interbd SSH								Solid	
*	(21)	46.75	0.42			SSH, mntr intrbd VFS, biotrb ip, carb ip occ calc fill frac								Solid	
↓															
18°	46.75		0.48			CrSSH, carb ip, platy towards base								Solid	
		47.34	0.11			SH, inery carb. towards base								badly broken	
*	47.34		0.04			CC overall, mixed CB-CD								pulverized	
(17)			0.20			CB mod bright lustre, occ bright vit bands to 2mm thru								broken	
		47.68	0.10			CA								Solid	

DRILL CORE LOG

B C N	UNIT		THICKNESS		SAMPLE NO.	LITHOLOGY DESCRIPTION					MARKER rec. r.q.d. d.o.b.	STR.	FRAC/m		FRACTURE TYPE AND CHARACTERISTICS
	From	To	Apparent	True		Strat. Lithology	Grain Size	Fresh Colour	Bedding Charact.	Other Sed. Charact.			bd.	jt.	
	47.68		0.10		4008	CB								badly broken	
			0.01			CC									"
			0.02			CD									"
	47.94		0.13			CB, CA-CC mixed									pulverized
						BOX 22									
	47.94		0.15			CB overall, mixed, possible drilling mud contaminate included.									pulverized
			0.01			MC									3.04 3.05 (-.01)
			0.16			MC									
			0.02			DRGRSH									badly broken
			0.07			CC, mixed coal									badly broken - pulverized
			0.09		CB									broken	
	48.51		0.07		CA									broken	

DRILL CORE LOG



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B C N	UNIT		THICKNESS		SAMPLE NO.	LITHOLOGY DESCRIPTION					MARKER rec. r.q.d. d.o.b	STR.	FRAC/m		FRACTURE TYPE AND CHARACTERISTICS
	From	To	Apparent	True		Strat. Lithology	Grain Size	Fresh Colour	Bedding Charact.	Other Sed. Charact.			bd.	jt.	
	48.57		0.13		4008	CB								broken	
			0.09			CA									badly broken
			0.02			CC									"
			0.04			DKSH, carb									"
			2.06			CA									"
			0.02		4009	CB								badly broken	
	48.97		0.10			MC									
17	48.97	49.45	0.48			VFS, abnt carb pl runs thru,								solid	
	49.45		0.46		4010	CA, bright, brit, vit, occ dull bands								broken	
			0.23			CB									broken
						BOX 23									
			0.09			CB								pulverized	
	50.26		0.03			CA								broken	

DRILL CORE LOG



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B C N	UNIT		THICKNESS		SAMPLE NO.	LITHOLOGY DESCRIPTION					MARKER rec. r.g.d. d.o.b.	STR.	FRAC/m		FRACTURE TYPE AND CHARACTERISTICS	
	From	To	Apparent	True		Strat. Lithology	Grain Size	Fresh Colour	Bedding Charact.	Other Sed. Charact.			bd.	jt.		
	50.26		0.04		4010	CC									broken	
			0.05			DKSH										broken
	50.41		0.06			CB										pulverized
			0.04			CSH										Broken
			0.09			DKSH										"
(17)			0.06		4011	CD									"	
			0.02			CB										"
	50.64		0.02			CC										"
	50.64		0.05			CSH , brit vit lam.										"
	51.11		0.42			CSH , abnt carb mat thru										"
(15)	51.11	51.25	0.14		VFS , occ calc fild brck carb pl rns thru										Solid	
											51.82/170'				$\frac{2.89}{3.05} (-.16)$	

DRILL CORE LOG


Quintette Coal Limited

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B C N.	UNIT		THICKNESS		SAMPLE NO.	LITHOLOGY DESCRIPTION					MARKER rec. r.q.d. d.o.b.	STR.	FRAC/m		FRACTURE TYPE AND CHARACTERISTICS
	From	To	Apparent	True		Strat. Lithology	Grain Size	Fresh Colour	Bedding Charact.	Other Sed. Charact.			bd.	jt.	
15°	51.25		0.21												Solid.
			0.78 0.77												Solid
						BOX 24									
			0.15												Solid
*			0.12												Solid
			0.7 0.70												Solid
			0.71												Solid
12°			0.39												Solid
						BOX 25									
(15)	54.35		0.05												platy/broken

DRILL CORE LOG

B C N	UNIT		THICKNESS		SAMPLE NO.	LITHOLOGY DESCRIPTION					MARKER rec. r.q.d. d.o.b.	STR.	FRAC/m		FRACTURE TYPE AND CHARACTERISTICS
	From	To	Apparent	True		Strat. Lithology	Grain Size	Fresh Colour	Bedding Charact.	Other Sed. Charact.			bd	jt.	
	54.35		0.24			SH									Solid
(15)			0.66 0.65			CrSH									"
			0.19			SH									"
*			0.30			SSH									"
19'			0.67 0.67			VFS									"
				97		BOX 26									
*			0.30			VFS									"
25'			0.34 0.33			FS									"
*			0.36			SSH									"
(20)	57.45		0.36 0.35			SSH									"
											57.91/190				3.13 3.05 (+.08)

B C N.	UNIT		THICKNESS		SAMPLE NO.	LITHOLOGY DESCRIPTION					MARKER rec. r.a.d. d.o.b.	STR.	FRAC/m		FRACTURE TYPE AND CHARACTERISTICS
	From	To	Apparent	True		Strat. Lithology	Grain Size	Fresh Colour	Bedding Charact.	Other Sed. Charact.			bd.	jt.	
(20)	57.45		0.79	} 114											Solid
			0.31												
					BOX 27										
			0.30												Solid
			0.12												Solid
*			0.49												Solid
			0.43												Solid
14°			0.20												Solid
			0.19												Solid
	6032		0.04												Solid

B C N	UNIT		THICKNESS		SAMPLE NO.	LITHOLOGY DESCRIPTION					MARKER rec. r.q.d. d.o.b	STR.	FRAC/m		FRACTURE TYPE AND CHARACTERISTICS
	From	To	Apparent	True		Strat. Lithology	Grain Size	Fresh Colour	Bedding Charact.	Other Sed. Charact.			bd.	jt.	
	60.52		0.16	} 23		FS, aa								Solid	
(14)											69.96/200'			3.03 3.05 (-.02)	
			0.07	} 89		FS, aa								Solid	
*			0.06				CrSH, sandy ip, carb								"
			0.07	} 89		FS, gradg to VFS, carb pl rmins thru								"	
							BOX 28								
			0.82	} 145		FS, loc gradg to VFS, occ intrbd SSH occ carb pl rmins								Solid	
			0.32				VFS, intrbd to SSH, occ carb pl rmins thru								"
8°			0.81	} 145		FS, aa								"	
							BOX 29								
	62.68		0.05	↓		FS gradg to VFS extensively frac w/calc infil, brecc, evidence of shear on top and bottom bedding planes								Solid	

B C N	UNIT		THICKNESS		SAMPLE NO.	LITHOLOGY DESCRIPTION					MARKER rec. r.q.d. d.o.b.	STR.	FRAC/m		FRACTURE TYPE AND CHARACTERISTICS
	From	To	Apparent	True		Strat. Lithology	Grain Size	Fresh Colour	Bedding Charact.	Other Sed. Charact.			bd.	jt.	
*	62.68		0.59	}											Solid
			0.26												
				}											
				}											
10°			1.15												
*															
11°			0.47												Solid
			0.11												
	66.52		1.26												platy
	66.52		0.03												"
				}											
				}											
	66.81		0.26												"

DRILL CORE LOG



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B C N	UNIT		THICKNESS		SAMPLE NO.	LITHOLOGY DESCRIPTION					MARKER rec. r.a.d. d.o.b	STR.	FRAC/m		FRACTURE TYPE AND CHARACTERISTICS
	From	To	Apparent	True		Strat. Lithology	Grain Size	Fresh Colour	Bedding Charact.	Other Sed. Charact.			bd.	jt.	
						BOX 31									
	66.81		0.38			SH, carb ip, sl silty									partly broken
(11)			0.06			DKSH, gradg to DKGRSH, exten shearing carb/coaly									badly broken
*		67.37	0.12			DKGRSH, incrg carb									broken
	67.37		0.37		4012	CB; loc gradg to CA									Broken
			0.09			CC									Broken
			0.24	B3 CB/C											
			0.25				CB								
			0.04			CC									badly broken
(15)			0.09			CB									broken
			0.37												
			0.40			CA									badly broken
	68.61		0.04		CC									broken	

DRILL CORE LOG



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B C N	UNIT		THICKNESS		SAMPLE NO.	LITHOLOGY DESCRIPTION					MARKER rec. r.a.d. d.o.b.	STR.	FRAC/m		FRACTURE TYPE AND CHARACTERISTICS	
	From	To	Apparent	True		Strat. Lithology	Grain Size	Fresh Colour	Bedding Charact.	Other Sed. Charact.			bd.	jt.		
	68.61		0.16 0.18		4012										broken	
							BOX 32									
			0.06													broken
			0.09													solid
			0.01													"
			0.04	} 30 CB/c												"
(15)			0.26													
			0.15													"
			0.02	} 16 CB/c												"
			0.07													
			0.07													"
	69.56		0.02													"

DRILL CORE LOG



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B C N	UNIT		THICKNESS		SAMPLE NO.	LITHOLOGY DESCRIPTION					MARKER rec. r.q.d. d.o.b.	STR.	FRAC/m		FRACTURE TYPE AND CHARACTERISTICS	
	From	To	Apparent	True		Strat. Lithology	Grain Size	Fresh Colour	Bedding Charact.	Other Sed. Charact.			bd.	jt.		
	69.56		0.03		4012	CA									Partly broken	
			0.01				CB									Solid
			0.04				CC									"
			0.05				CA									"
			0.24				CB									"
			0.14				CA									"
			0.08				CB									"
			0.04				CB									"
			0.02				CA									"
			0.20				CB									"
	70.62		0.21				CA									"

DRILL CORE LOG



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B C N	From	THICKNESS		SAMPLE NO.	LITHOLOGY DESCRIPTION					MARKER rec. r.q.d. d.o.b	STR.	FRAC/m		FRACTURE TYPE AND CHARACTERISTICS
		Apparent	True		Strat. Lithology	Grain Size	Fresh Colour	Bedding Charact.	Other Sed. Charact.			bd.	jt.	
	70.62	0.05		4012	CB								Solid	
		0.20			CA loc grdg to CB, occ calc fil frac (5mm)									"
		0.25 0.29			BOX 33									
				4013	CA : bright vit, brittle								partly broken	
(15)		0.01	3		CC								Solid	
	71.15	0.02			CC								"	
		0.04			CSH								"	
*	71.25	0.06			CC								"	
	71.25	0.12		SH, carb, silty ip								"		
		0.03		CB								"		
		0.08		SH, aa								"		
18°	71.93	0.45		CrSH, carb, loc sandy								"		

DRILL CORE LOG

 Quintette Coal Limited

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B C N	UNIT		THICKNESS		SAMPLE NO. ↑	LITHOLOGY DESCRIPTION					MARKER rec. r.q.d. d.o.b.	STR.	FRAC/m		FRACTURE TYPE AND CHARACTERISTICS	
	From	To	Apparent	True		Strat. Lithology	Grain Size	Fresh Colour	Bedding Charact.	Other Sed. Charact.			bd.	jt.		
	71.93		0.04		4013	CSH									broken	
(10)			0.02			MR										
*		72.06	0.07			SH				gridg ⁺ DKGRSH						"
	72.06		0.02			CB										"
			0.02			CSH										"
			0.08		4014	MR										
			0.10			DKGRSH										"
			0.02			CA										"
(15)			0.02			DKGRSH										"
			0.02			CC										"
		72.38	0.04		4015	DKGRSH									badly broken	
	72.38		0.27			CB										"
			0.05			MC										
			0.09			MC										
		72.94	0.15			CC				mixed						badly broken

DRILL CORE LOG



B C N.	UNIT		THICKNESS		SAMPLE NO.	LITHOLOGY DESCRIPTION					MARKER rec. r.g.d. d.o.b.	STR.	FRAC/m		FRACTURE TYPE AND CHARACTERISTICS
	From	To	Apparent	True		Strat. Lithology	Grain Size	Fresh Colour	Bedding Charact.	Other Sed. Charact.			bd.	jt.	
					4015	BOX 34									
	72.94		0.15			CA								Badly Broken	
			0.01			CD								"	
			0.11			CB								"	
(15)			0.13	} 35 CB/C		CC, loc grdg to CB								"	
			0.11			CB									"
			0.06	} 15 CA/B		CA								"	
	73.60		0.09			CB									/pulverized
*	73.60		0.01			CSH								Solid	
			0.16			CrSH, carb ip, loc sandy								"	
11°	74.60		0.83			VFS, interbd SSH, loc grdg to FS, carb ip								"	
	74.60	74.76	0.16			SSH, interbd VFS, carb, occ coal lam								"	
						11-13 cm									

DRILL CORE LOG



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B C N	UNIT		THICKNESS		SAMPLE NO.	LITHOLOGY DESCRIPTION					MARKER rec. r.g.d. d.o.b.	STR.	FRAC/m		FRACTURE TYPE AND CHARACTERISTICS
	From	To	Apparent	True		Strat. Lithology	Grain Size	Fresh Colour	Bedding Charact.	Other Sed. Charact.			bd.	jt.	
↑	74.76		0.24		46	FS, gradg to VFS, abnt carb pl rns thru, occ carb lam								Solid	
						BOX 35									
			0.22			FS, aa								Solid	
			0.04			DKGRSH, silty ip.								"	
12°			0.05			FS, extremely carb, gradg to MS.								"	
			0.02			DKGRSH, aa								"	
* ↑	75.53	75.53	0.20			4016	MR								
	75.53		0.04				CC								partly broken
			0.15				CB overall, mixed								badly broken
			0.12				CB overall, aa								2.73 (-0.32) ^{2.2}
			0.03		DKSH gradg to CSH, mixed overall, mixed coal and DKGRSH (possibleavings?)								badly broken, rounded chunks		
(14)			0.06		CC, rel. dense dull w/occ bri brit vit bands								broken		
			0.02		CB										
	75.95														

DRILL CORE LOG



HOLE No. QHD 89002
PAGE No. 29 of 40

B C N	UNIT		THICKNESS		SAMPLE NO. ↑	LITHOLOGY DESCRIPTION					MARKER rec. r.g.d. d.o.b.	STR.	FRAC/m		FRACTURE TYPE AND CHARACTERISTICS
	From	To	Apparent	True		Strat. Lithology	Grain Size	Fresh Colour	Bedding Charact.	Other Sed. Charact.			bd.	jt.	
	75.95		0.02		4016	CC								Broken	
			0.08			CA									"
			0.02			CC									"
	76.21		0.14			CA									"
	76.21		0.17		4017	DKGRSH, silty ip								Solid	
(1A)	76.42		0.04			CSH, coaly lam to 3 mm								Broken	
	76.42		0.08			CB								Solid	
			0.02	28 CA/B		CA								"	
			0.01			CB								"	
			0.17			CA								"	
			0.03			DKGRSH,								"	
	76.75		0.02			CC								"	

DRILL CORE CLOG LOG

B C N.	UNIT		THICKNESS		SAMPLE NO.	LITHOLOGY DESCRIPTION					MARKER rec. r.g.d. d.o.b.	STR.	FRAC/m		FRACTURE TYPE AND CHARACTERISTICS	
	From	To	Apparent	True		Strat. Lithology	Grain Size	Fresh Colour	Bedding Charact.	Other Sed. Charact.			bd.	jt.		
(1A)	76.75		0.01		4017 ↑ ↓	DKSH									Solid	
*		76.80	0.04			CA										"
			0.02			DKGRSH										"
			0.05			DKSH										"
			0.04			DKGRSH										"
			0.08			DKSH										"
			0.20			DKGRSH										Broken
(13)							BOX 36									
		77.29	0.10			DKGRSH										Broken
	77.29		0.09			CrSH, carb i/p, loc sandy										Solid
			0.04			SSH, abnt carb pl rmins thru										"
	77.45		0.03			VFS, carb lam thru										"

DRILL CORE LOG

 Quinterra Coal Limited

HOLE No. QHD 89002

PAGE No. 31 of 40

B C N	UNIT		THICKNESS		SAMPLE NO.	LITHOLOGY DESCRIPTION					MARKER rec. r.q.d. d.o.b	STR.	FRAC/m		FRACTURE TYPE AND CHARACTERISTICS
	From	To	Apparent	True		Strat. Lithology	Grain Size	Fresh Colour	Bedding Charact.	Other Sed. Charact.			bd.	jt.	
13'	77.45		0.58			FS, occ grdg to MS, abnt carb pl thru									Solid
			0.50			VFS, ssH lam thru, carb lam thru, biotrb ip									"
			0.12	} 39		CrSH, sandy ip									"
			0.27			CrSH, aa									partly broken
			0.33	} 42		VFS, biotrb, occ hi angle calc fil frac,									Solid
			0.09			BOX 37									
			0.09			VFS, aa									Solid
16'	81.28		1.94			MS, grdg to FS, occ calc fil frac, carb ip									"
						upper 55cm, massive									
						BOX 38									

DRILL CORE LOG



HOLE No. QHD 89002

PAGE No. 32 of 40

B C N.	UNIT		THICKNESS		SAMPLE NO.	LITHOLOGY DESCRIPTION					MARKER rec. r.a.d. d.o.b	STR.	FRAC/m		FRACTURE TYPE AND CHARACTERISTICS
	From	To	Apparent	True		Strat. Lithology	Grain Size	Fresh Colour	Bedding Charact.	Other Sed. Charact.			bd.	jt.	
13°	87.84		1.81												Solid
*															
7°			1.29												Solid
			0.75												"
			2.02												"
			0.25												"
↓	94.56		0.60												"

DRILL CORE LOG



HOLE No. QHD 09002

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B C N	UNIT		THICKNESS		SAMPLE NO.	LITHOLOGY DESCRIPTION					MARKER rec. r.q.d. d.o.b	STR.	FRAC/m		FRACTURE TYPE AND CHARACTERISTICS
	From	To	Apparent	True		Strat. Lithology	Grain Size	Fresh Colour	Bedding Charact.	Other Sed. Charact.			bd.	jt.	
10			1.20			FS, loc grdy to VFS, abut carb lam 88-120 cm, calcifil fil frac (irregular)									Solid
*						BOX 45									
8°			1.32			FS, calc/sid fil hi angle frac, biotrb, Fe str mudst nodules prob? occ lam str., min offsetting of beds (2cm)									"
											97.91/326			$\frac{3.12}{3.05} (+.07)$	
			0.82			FS, occ carb lam, occ Fe str beds									"
						BOX 46									
*			0.25			FS, aa									"
7°			1.88			VFS, loc extensively biotrb, occ calc fil frac, ferruginous mudst fil barrows									"
						BOX 47									
	103.09		0.06			VFS aa									"

DRILL CORE LOG



HOLE No. QMD 09002
PAGE No. 35 of 40

B C N.	UNIT		THICKNESS		SAMPLE NO.	LITHOLOGY DESCRIPTION					MARKER rec. r, q, d. d. o. b.	STR.	FRAC/m		FRACTURE TYPE AND CHARACTERISTICS		
	From	To	Apparent	True		Strat. Lithology	Grain Size	Fresh Colour	Bedding Charact.	Other Sed. Charact.			bd.	jt.			
																	3.01 3.05 (-.04)
	100.09		1.91	↑		VFS, loc grd q fs, bioturb, occ rip up clasts											Solid
						BOX 48											
			1.24			VFS, silty ip, bioturb,											"
																	3.15 3.05 (+.10)
(7)			0.14)		VFS, aa											"
*			0.70			SSH, grd q to VFS, massive											"
						BOX 49											
13°			1.98			SSH, minr interbedded VFS, loc grd q to CrSH.											"
	106.24		0.18	↓		VFS, interbedded SSH											"
						BOX 50											

B C N	UNIT		THICKNESS		SAMPLE NO.	LITHOLOGY DESCRIPTION					MARKER rec. r.q.d. d.o.b.	STR.	FRAC/m		FRACTURE TYPE AND CHARACTERISTICS
	From	To	Apparent	True		Strat. Lithology	Grain Size	Fresh Colour	Bedding Charact.	Other Sed. Charact.			bd.	jt.	
	106.24		0.26	44		VFS, aa									Solid
*										106.68/350'					$\frac{3.26}{3.05} (+.21)$
			0.10	177		SSH, biotrb.									"
10°			1.67			SSH, occ VFS interbeds, bioturb									"
*						Box 51									
			1.30			VFS, interbedded SSH, bioturb i/p, occ calc fil frac									"
										109.77/366					$\frac{3.07}{3.05} (+.02)$
14°			0.77	383		VFS, aa, occ calc fil frac									"
						Box 52									
*			1.76			VFS, aa, interbedded SSH, biotrb, occ thin sh lam									"
12°	112.33		0.23			FS, loc grd g Ms, rip up clasts top 3cm x-bedding evident									"

DRILL CORE LOG



Quintette Coal Limited

HOLE No. QHD 09002

PAGE No. 37 of 48

B C N.	UNIT		THICKNESS		SAMPLE NO.	LITHOLOGY DESCRIPTION					MARKER rec. r.a.d. d.o.b.	STR.	FRAC/m		FRACTURE TYPE AND CHARACTERISTICS
	From	To	Apparent	True		Strat. Lithology	Grain Size	Fresh Colour	Bedding Charact.	Other Sed. Charact.			bd.	jt.	
	112.33		0.13			MS, min interbedded VFS & carb lam									Solid
						BOX 53									
			0.16			MS, extensively bioturb, ^{loc} grad to CS									"
				239							112.78/370'			$\frac{3.05}{3.05} (\pm 0.0)$	
(12)			1.91			MS, interbedded CST, extensively bioturb loc grad FS, occ rip up clasts and sh stringers									"
						BOX 54									
			0.19			MS, aa									"
*			0.14			Conglo, well rd peb (to 2cm)									"
			0.03			VFS, grad to FS, CST rip up clasts									"
(10)			0.02			CS, peb to 2mm									"
	114.92		0.01			VFS;									"

DRILL CORE LOG

 Quintette Coal Limited

HOLE No. QHD 89002

PAGE No. 30 of 40

B C N	UNIT		THICKNESS		SAMPLE NO.	LITHOLOGY DESCRIPTION					MARKER rec. r.q.d. d.o.b.	STR	FRAC/m		FRACTURE TYPE AND CHARACTERISTICS
	From	To	Apparent	True		Strat. Lithology	Grain Size	Fresh Colour	Bedding Charact.	Other Sed. Charact.			bd.	jt.	
10	114.92		0.04												Solid
*			0.11												"
															"
															"
			0.45												"
7°			0.28												"
			0.12												"
*			0.07												platy
			0.06												Solid
			0.02												"
(11)			0.01												"
	116.19		0.11												"

115.21/378'

2.45 (+.02)
2.43

56

B C N.	UNIT		THICKNESS		SAMPLE NO.	LITHOLOGY DESCRIPTION					MARKER rec. r.q.d. d.o.b.	STR.	FRAC/m		FRACTURE TYPE AND CHARACTERISTICS
	From	To	Apparent	True		Strat. Lithology	Grain Size	Fresh Colour	Bedding Charact.	Other Sed. Charact.			bd.	jt.	
			0.01			VFS	grdy to FS								Solid
			0.10			CSH									"
			0.02			unconsolidated mud possibly volc ash? medium grey.								crumbled	
			0.32			MS, loc grdy FS, occ pebs to 3mm hi angle calc fil frac								Solid	
						BOX 55									
11°			1.69			MS, aa, occ pebs / congl beds 3cm hi angle calc frac thru, Fe st along Fracs								badly Broken	
										118.24/388'				$\frac{3.26}{3.05} (+0.21)$	
						BOX 56									
			2.11			MS, x-bedded, calc fil frac, Fe stn occ congl pebble 3mm								Solid	
						BOX 57									
10°	121.39		0.95			MS, aa, occ congl beds								"	

DRILL CORE LOG



End of Hole.

121.92/391'
3.06
3.71 (-.65)

HOLE No. QHD 89002

PAGE No. 40 of 40

QMD 89501 DRILL CORE LOG

Logged: T. Wall, R. Kostuk, N. Hori

Sampled: August 1989

Samples: 4029 - 4048

Core Boxes: 1-84

Pages: 1-73

QMD 89501
DRILL CORE LOG

DATE OF LOGGING: 1989
LOGGERS: T. WALL, R. KOSTUK, N. HORI
SAMPLING DATE: AUGUST 1989
SAMPLING LOCATION: [illegible]
SAMPLING DEPTH: [illegible]

QMD 89501
DRILL CORE LOG

B C N	UNIT		THICKNESS		SAMPLE NO.	LITHOLOGY DESCRIPTION					MARKER rec. r.q.d. d.o.b.	STR	FRAC/m		FRACTURE TYPE AND CHARACTERISTICS
	From	To	Apparent	True		Strat. Lithology	Grain Size	Fresh Colour	Bedding Charact.	Other Sed. Charact.			bd.	jt.	
	0.00	1.98				CSG Set @ ~ 6'									
						BOX 1									
			0.13			MR									
			0.18			CSH; carb, biotrb,									Badly Broken
			0.07			DKERSH;									Platey/pulverized
			0.02			CB									
			0.11			DKERSH, loc grdng to CSH, occ coal stringers (CB) 1mm-2cm									"
			0.02			SH, carb pl rims thru									platey
			0.37			VFS, intbd SSH, carb pl rims thru, biotrb									Solid
			0.27			CSSH, carb pl rims thru									"
10"			0.26			VFS, aa									"
			0.07			SSH, aa									"
	3.67	0.19				CSSH, aa, biotrb									"

B C N	UNIT		THICKNESS		SAMPLE NO.	LITHOLOGY DESCRIPTION					MARKER rec. r.g.d. d.o.b	STR	FRAC/m		FRACTURE TYPE AND CHARACTERISTICS
	From	To	Apparent	True		Strat. Lithology	Grain Size	Fresh Colour	Bedding Charact.	Other Sed. Charact.			bd	jt.	
	3.67		0.05			SH; carb, fissile, Fe str								Platy / Broken	
			0.22			DKGRSH; occ coal lam 5mm, fissile, Fe Str								"	
			0.05			DGRSH; aa								Linken	
			(0.08)			MR								Broken	
			0.02			CC; ox Fe str.								Broken	
			0.26			DKGRSH; occ coal lam (3mm), fis								Platy / Broken	
(10)			0.02			SH; carb pl rnis thru								"	
			0.54			SSH, grad to VFS (siltst) biotrb, carb pl rnis, becg shalier towards base, massive, no app sed structure (ie. bedding)								Solid	
			0.20			VFS, int'd SSH, biotrb, carb ip,									
(14)			0.39												
	5.30		0.19			VFS, aa									

BOX 2

610/20'

$\frac{292}{305}$ (-13)

B C N	UNIT		THICKNESS		SAMPLE NO.	LITHOLOGY DESCRIPTION					MARKER rec. r.g.d. d.o.b	STR	FRAC/m		FRACTURE TYPE AND CHARACTERISTICS
	From	To	Apparent	True		Strat. Lithology	Grain Size	Fresh Colour	Bedding Charact.	Other Sed. Charact.			bd	jt	
	530		0.06			SSH, minr intbd VFS, carb, biotrb								Solid	
			0.20			VFS, aa								"	
14°			0.36			SSH, aa								"	
*						BOX 3									
13°			1.82			SSH, loc grd, ESSH, minr intbd Carl SH biotrb								"	
			0.29			SH, loc silty, carb,								"	
				0.41		BOX 4									
			0.12			SH, carb, calc + pyrite long vert frac								Badly Broken	
			0.11			MR					9.14/30'			3.04/3.04 (0)	
			0.04			SSH, loc grd, DKSH								"	
	8.32		0.02			DKCRSH, coaly/carb								Solid	

DRILL CORE LOG

Quintette Coal Limited

HOLE No. QMD 89501

PAGE No. 3 of 73

B C N	UNIT		THICKNESS		SAMPLE NO.	LITHOLOGY DESCRIPTION					MARKER rec. r.q.d. d.o.b.	STR.	FRAC/m		FRACTURE TYPE AND CHARACTERISTICS
	From	To	Apparent	True		Strat. Lithology	Grain Size	Fresh Colour	Bedding Charact.	Other Sed. Charact.			bd.	il.	
(11)	832		0.05			CsSH ; carb pl rmns thru								Solid	
*			0.07			SSH ; carb , biotrb , abnt pl fos rmns								"	
			0.09			VFS ; biotrb , intbd SSH , carb								"	
23°			1.55			FS ; loc grd g VFS , intbd carb lam , carb pl rmns , x-bdd								"	
						BOX 5									
*			0.62			VFS , loc grd g FS , aa , biotrb								"	
			0.04			SSH , carb , biotrb								"	
			0.46			SH , loc grd g CsSH , carb , occ coal lam to 2mm , abnt carb pl rmns thru , pyr ip								"	
				1.56											
											12.19/40'			$\frac{2.94}{3.05} = 11$	
18°	12.07		0.87			SH ; aa ,									

DRILL CORE LOG



HOLE No. QMD 89501

PAGE No. 4 of 73

B C N	UNIT		THICKNESS		SAMPLE NO.	LITHOLOGY DESCRIPTION					MARKER rec. r.q.d. d.o.b	STR	FRAC/m		FRACTURE TYPE AND CHARACTERISTICS
	From	To	Apparent	True		Strat. Lithology	Grain Size	Fresh Colour	Bedding Charact.	Other Sed. Charact.			bd.	jt.	
						BOX 7									
	14.11		0.51	} 0.82		SSH, aa grdg to CSSH									Solid
			0.44				CSSH, carb loc sandy								
		16.17	1.11			SH, fis, carb ip									Partly Broken
						BOX 8									
	13° 16.17		1.87	} 2.15		SH, aa									Broken
							BOX 9								
		18.32	0.28			SH, loc silty ip, carb, hi angle frac									"
		18.32	0.04	} 0.08		CC overall, coal w/occ SH stringers									Badly Broken/pulverized
(9)			0.04				CC grdg to CD								
			1.24			CB overall, blocky, dull, occ SH partings appears weathered?, (coal may be cleaner than CB but appears of poor quality).									"
		19.73	0.09			MC									

DRILL CORE LOG



HOLE No. QMD 89501

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B C N	UNIT		THICKNESS		SAMPLE NO.	LITHOLOGY DESCRIPTION					MARKER rec. r.q.d. d.o.b	STR	FRAC/m		FRACTURE TYPE AND CHARACTERISTICS
	From	To'	Apparent	True		Strat. Lithology	Grain Size	Fresh Colour	Bedding Charact.	Other Sed. Charact.			bd.	jt.	
	19.73		0.19			DKGRSH;									Solid
			0.24			CSH, coal lam 5mm thru									"
9'	20.33		0.17			DKSH, silty ip									"
						BOX 10									
	20.33		0.07			DKGRSH, silty ip, carb thru									"
			0.09			CrSH, carb thru									"
			0.24			VFS; abnt carb mat thru, lg hi angle frac									"
										21.34/70'					$\frac{6.70}{6.10} + 60$
			0.74			FS; carb lam intbds, bic b, loc grdg VFS									Solid
14'	22.35		0.88	1.52		MS, abnt carb lam thru, undulating bedding									"
						BOX 11									

B C N	UNIT		THICKNESS		SAMPLE NO.	LITHOLOGY DESCRIPTION					MARKER rec. r.q.d. d.o.b	STR.	FRAC/m		FRACTURE TYPE AND CHARACTERISTICS
	From	To	Apparent	True		Strat. Lithology	Grain Size	Fresh Colour	Bedding Charact.	Other Sed. Charact.			bd.	jt.	
(14)	22.35		0.64	↑		MS, aa, x-bd,									Solid
*			0.06			CSSH, carb, fis									Badly Broken
17°			0.78			MS, aa, rare rip up clasts, abnt carb pl rms along bedding planes,									Solid
			0.50			MS, aa									Solid
28°			2.09			CS, loc gradg to MS, x-bd, abnt rip up clasts thru, occ coalified pl rms									"
			0.41			CS, aa									"
13°	20.42		1.67	1.59		CS, aa									"

24.30/80'

3.10
3.04 (+.06)

BOX 12

BOX 13

27.43/90'

3.00
3.05 (-.05)

B C N	UNIT		THICKNESS		SAMPLE NO.	LITHOLOGY DESCRIPTION					MARKER rec. r.q.d. d.o.b	STR.	FRAC/m		FRACTURE TYPE AND CHARACTERISTICS
	From	To	Apparent	True		Strat. Lithology	Grain Size	Fresh Colour	Bedding Charact.	Other Sed. Charact.			bd.	jt.	
18'	28.42		1.50	1.48											Solid
											30.48/100'				$\frac{3.11}{3.05} + .06$
			0.54												"
22'			2.96												"
			0.26												"
			0.06												"
			0.76												"
															"
	33.72		0.04												"
															"

BOX 14

CS, aa

30.48/100'

$\frac{3.11}{3.05} + .06$

CS, aa

BOX 15

CS, aa

BOX 16

CS, aa

MS, x-bd, sl carb

MISSING MARKER

$\frac{3.02}{3.05} - .03$

IF MARK WAS HERE

CS, csg down, ecc ri, up clasts, x-bd
VCs bot 29 cm.

FS, loc grdg MS, fining down carb lam thin

DRILL CORE LOG



HOLE No. QMD 89501
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B C N	UNIT		THICKNESS		SAMPLE NO.	LITHOLOGY DESCRIPTION					MARKER rec. r.q.d. d.o.b	STR.	FRAC/m		FRACTURE TYPE AND CHARACTERISTICS
	From	To	Apparent	True		Strat. Lithology	Grain Size	Fresh Colour	Bedding Charact.	Other Sed. Charact.			bd.	jt.	
	33.72		0.03			VFS, grdy FS,									Solid
			0.10			SSH, abnt carb lam thru									"
			0.03			MS, carb lam thru									"
22°			0.17			FS, carb lam thru, mnr pyr									"
			0.17			MS, occ carb pl rns									"
			0.47			CS, occ rip up clasts, mass									"
						BOX 17									
21°			1.17			CS, aa									"
				4.23											
			0.90			CS, x-bd, loc grdy VCS, rip up clasts, carb pl rns thru									"
						BOX 18									
	38.45		1.69			CS, abnt VFS, rip up clasts thru, x-bd occ carb pl rns, loc grdy to VCS, oc									"



B C N.	UNIT		THICKNESS		SAMPLE NO.	LITHOLOGY DESCRIPTION					MARKER rec. r.a.d. d.o.b	STR	FRAC/m		FRACTURE TYPE AND CHARACTERISTICS
	From	To	Apparent	True		Strat. Lithology	Grain Size	Fresh Colour	Bedding Charact.	Other Sed. Charact.			bd.	jt.	
(21) *	39.45		0.10												Solid
			0.05												
(15) *			0.15												"
			0.11												"
											37.62/130'		3.00 3.04		--04)
(11) *			0.15												Solid
			0.65												"
	39.66		0.67												"

BOX 11

B C N	UNIT		THICKNESS		SAMPLE NO.	LITHOLOGY DESCRIPTION					MARKER rec. r.a.d. d.o.b.	STR.	FRAC/m		FRACTURE TYPE AND CHARACTERISTICS
	From	To	Apparent	True		Strat. Lithology	Grain Size	Fresh Colour	Bedding Charact.	Other Sed. Charact.			bd.	jt.	
	29.66		0.46			VCS; Congl. ip, subrd peb to 5mm, abnt CSH and SSH rip up clasts to 6cm x 6cm,									Solid
			0.81 0.85			MS [?] ; occ rip up clasts, occ carb pl rmas, calc cnt									"
			1.05			BOX 20									"
			1.05 1.07	5.09		MS, aa, x-bd, loc grdy to CS						42.67/140'		3.16 3.05 (+11)	"
11°			1.05 1.07	5.09		MS, aa, occ peb near base to 7mm									"
			2.04 2.08			BOX 21									"
			2.04 2.08			MS, aa, occ carb pl rmas, sev peb hor, rd pebs to 3mm							45.72/150'	3.15 3.05 (+10)	"
						BOX 22									"
↓	45.21		0.14			MS, aa									"



B C N	UNIT		THICKNESS		SAMPLE NO.	LITHOLOGY DESCRIPTION					MARKER rec. r.q.d. d.o.b	STR	FRAC/m		FRACTURE TYPE AND CHARACTERISTICS
	From	To	Apparent	True		Strat. Lithology	Grain Size	Fresh Colour	Bedding Charact.	Other Sed. Charact.			bd.	jt.	
↑	45.21		0.14			VFS ; intbd SSH ; carb ip									Solid
			0.66			FS ; gradg to VFS ; occ carb pl rmas									"
			0.23			VFS ; aa									"
			0.13			SSH ; carb									platey / broken
			0.15			FS ; loc gradg VFS									Solid
			0.18			VFS ; intbd SSH ; carb ip									Partly broken
			0.19			FS ; aa ; bioturb 11-15 cm									Solid
			0.20 0.22			VFS ; aa									Broken
			0.06			SSH ; sl carb									platey / broken
						BOX 23									
10'	48.06		0.91	1.45		VFS ; intbd SSH ; top 53 cm extensively bioturb carb pl rmas thru									Solid
															50% 20% (- 04)

48.77 / 160'

DRILL CORE LOG

Quintette Coal Limited

HOLE No. QMS 19901

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B C N	UNIT		THICKNESS		SAMPLE NO.	LITHOLOGY DESCRIPTION					MARKER rec. r.q.d. d.o.b	STR.	FRAC/m		FRACTURE TYPE AND CHARACTERISTICS
	From	To	Apparent	True		Strat. Lithology	Grain Size	Fresh Colour	Bedding Charact.	Other Sed. Charact.			bd.	jt.	
	48.06		0.54 0.58			VFS; loc gdg SSH; intbd SSH, aa								partly broken	
			0.22 0.24			FS; VFS lam, carb pl rims thin								"	
			0.17 0.18			SSH; carb								"	
			0.07			FS; gdg to VFS								Solid	
			0.13			VFS; biotrb								"	
				1.32		BOX 24									
			1.19 1.25			VFS; intbd FS & SSH, carb pl rims thin								Solid	
			0.50 0.52			FS; gdg to VFS, massive, occ carb pl rim								"	
			0.24			VFS; aa.									
				0.30											
	51.18		0.96			VFS; aa.									
						BOX 25									

51.82/170

3.17
3.45 (19)

B C N	UNIT		THICKNESS		SAMPLE NO.	LITHOLOGY DESCRIPTION					MARKER rec. r.q.d. d.o.b.	STR.	FRAC/m		FRACTURE TYPE AND CHARACTERISTICS
	From	To	Apparent	True		Strat. Lithology	Grain Size	Fresh Colour	Bedding Charact.	Other Sed. Charact.			bd.	jt.	
↑	51.18		0.44												Solid
12			1.68												"
				2.70											
			0.82												Solid
			0.20							51.96/180'			3.00 3.04	(-.04)	"
			1.09	1.06											
					2.91										
↓	51.23		1.97	1.85											partly broken
										52.91/190'			3.26 3.15	(+.21)	

DRILL CORE LOG

Quintette Co. Limited

HOLE No. QMD B9501

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B C N	UNIT		THICKNESS		SAMPLE NO.	LITHOLOGY DESCRIPTION					MARKER rec. r. q. d. d. o. b	STR.	FRAC/m		FRACTURE TYPE AND CHARACTERISTICS
	From	To	Apparent	True		Strat. Lithology	Grain Size	Fresh Colour	Bedding Charact.	Other Sed. Charact.			bd.	jt.	
↑	5723		0.09			VFS; aa,									Solid
						BOX 28									
13°			^{1.90} 2.10	2.63		VFS; aa; @ 123-131cm vhd cnt brecciated VFS + SSH w/ influx of silica cnt									partly broken
						BOX 29									
*			0.84			VFS; intbd SSH & FS; biotrb, carb ip.									Solid
										60.96/200'				$\frac{3.03}{3.05}$ (-0.2)	
17°			1.19			VFS; aa, fos 30-40 cm, loc qrdg FS									"
*						BOX 30									
14°			0.58			FS; loc qrdg VFS; ecc carb pl rims									Solid
			1.04			VFS; intbd SH & SSH, carb pl rims thru loc biotrb									"
↓	63.00		0.13			SSH; mnr intbd VFS, carb									"

B C N	UNIT		THICKNESS		SAMPLE NO.	LITHOLOGY DESCRIPTION					MARKER rec. r. q. d. d. o. b	STR.	FRAC/m		FRACTURE TYPE AND CHARACTERISTICS
	From	To	Apparent	True		Strat. Lithology	Grain Size	Fresh Colour	Bedding Charact.	Other Sed. Charact.			bd.	jt.	
	63.04		0.03			VFS, aa									Solid
										64.01/210'			2.97 3.05	(-08)	
			0.20			VFS; aa									Solid
				3.12											
			2.09												
10°			2.12			VFS; intbd SSH VFS, loc ext biotr, carb plant debris com thru									"
			0.80			VFS; aa, x-bd, mar intbd SSH, carb lean thru									Solid
X										67.06/220'			3.12 3.05	(+07)	
			1.26												
12°	69.38		1.27	1.59		VFS; gndq to FS, biotr thru, carb pl rms thru									"

BOX 31

BOX 32

BOX 33

B C N	UNIT		THICKNESS		SAMPLE NO.	LITHOLOGY DESCRIPTION					MARKER rec. r.q.d. d.o.b	STR	FRAC/m		FRACTURE TYPE AND CHARACTERISTICS
	From	To	Apparent	True		Strat. Lithology	Grain Size	Fresh Colour	Bedding Charact.	Other Sed. Charact.			bd.	jt.	
	67-38		0.33			VFS, aa									Solid
(12)			0.73			FS; x-bd, sl carb									"
			0.73			CONGL; cob to 8cm-top 15cm,									"
										70.1/230'			3.08 3.04	+0.04	"
			0.23			GONGL; rd-subrd pebs to 1cm									"
						BOX 34									"
			0.87			CONGL; csg down, rd pebs to 2.5cm near base									"
(13)			1.11 1.13	6.13		CONGL; rd peb gen. 1cm or less up to 3cm, loc por									"
						BOX 35									"
	7342		2.04 2.09			GONGL; csg down peb avg 1cm or less at top and up to 6cm at base, por (approx 20%)									"
															"

DRILL CORE LOG

 Quintette Coal Limited

HOLE No. QMD 89501

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B C N	UNIT		THICKNESS		SAMPLE NO.	LITHOLOGY DESCRIPTION					MARKER rec. r.q.d. d.o.b.	STR.	FRAC/m		FRACTURE TYPE AND CHARACTERISTICS
	From	To	Apparent	True		Strat. Lithology	Grain Size	Fresh Colour	Bedding Charact.	Other Sed. Charact.			bd.	jt.	
						Box 36									
	73.42		1.15 1.17	↑		CONGL; gen fining down, cob 9cm at top peb 1cm or less at base, per aa					75.29/247'				Solid. 3.26 3.45 (+.21)
			0.80			CONGL; rd-subrd peb 1cm or less, 20% per					76.20/250'				" 0.80 0.91 - .11
			0.08			CONGL; aa									"
				3.83		Box 37									
			2.10 2.15			CONGL; gen oss down, peb gen 1cm or less near top, up 3cm at base. (approx 15-20% per thru)									"
						Box 38									
	78.40		0.85 0.88			CONGL; peb 1cm or less					79.25/260'				" 3.09 3.05 (+.04)

DRILL CORE LOG



Quintette Coal Limited

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B C N	UNIT		THICKNESS		SAMPLE NO.	LITHOLOGY DESCRIPTION					MARKER rec. r.a.d. d.o.b	STR.	FRAC/m		FRACTURE TYPE AND CHARACTERISTICS	
	From	To	Apparent	True		Strat. Lithology	Grain Size	Fresh Colour	Bedding Charact.	Other Sed. Charact.			bd.	jt.		
	78.40		1.12	} 4.65											Solid	
			2.00 2.03													"
			0.06													"
			1.47	} 0.65											Solid	
13°			0.55													"
			0.10													"
	84.54		0.84	} 1.76											"	

BOX 39

BOX 40

BOX 41

82.3 / 270'

3.15
305 + .10

B C N	UNIT		THICKNESS		SAMPLE NO.	LITHOLOGY DESCRIPTION					MARKER rec. r.q.d. d.o.b.	STR.	FRAC/m		FRACTURE TYPE AND CHARACTERISTICS	
	From	To	Apparent	True		Strat. Lithology	Grain Size	Fresh Colour	Bedding Charact.	Other Sed. Charact.			bd.	jt.		
											85.31/285				3.02 3.04	(-.02)
(15)	84.54		0.92													Solid
		85.55	0.09													"
15'	85.55		0.08													"
				0.17												
			0.09													"
		85.79	0.07													"
15'	85.79		0.76													"
			0.02													Solid
		86.67	0.10													"

Congl; loc gradg VCIS, w/ x-strat,
well rd peb to 2cm, gen. 5cm or less

VCS, occ carb pl rims.

FS, gradg to MS

BOX 92

FS, aa

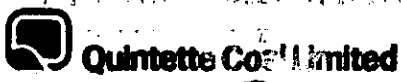
Congl; gradg to VCIS, peb to .5cm

FS; x-bd, carb pl rims thru,
Congl at base peb .5cm

CC; bri, vit, brit, sev DEGLSH lam thru
75% overall clean con

CSH; sandy ip, carb, vhd

DRILL CORE LOG



HOLE No. QMD 89501
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B C N	UNIT		THICKNESS		SAMPLE NO.	LITHOLOGY DESCRIPTION					MARKER rec. r.q.d. d.o.b	STR	FRAC/m		FRACTURE TYPE AND CHARACTERISTICS
	From	To	Apparent	True		Strat. Lithology	Grain Size	Fresh Colour	Bedding Charact.	Other Sed. Charact.			bd.	jt.	
↑	86.67		0.08	} 0.57 CA/CB	4030	CB; bri, vit, brit, w/occ dull bands,								Solid	D3 ↓
			0.29			CA; bri, vit, brit, rare shaley lam to lm								"	
			0.01	CD;								"			
			0.30	CA; bri, brit, vit, to pyr, blocky								"			
			0.05	} 0.55 CA/B		CB; occ coaly sh lam to 1mm								"	
			0.18			CB overall; mixed CA-CC, gen med vit, occ coaly sh lam, mnc pyr								Badly Broken	
(10)			0.10			MC									
						BOX 43									
			0.01			CA;								Solid	
	87.72		0.03			CB;								"	

88.39/290'

3.04
3.05 - .01

B C N	UNIT		THICKNESS		SAMPLE NO.	LITHOLOGY DESCRIPTION					MARKER rec. r.q.d. d.o.b	STR.	FRAC/m		FRACTURE TYPE AND CHARACTERISTICS
	From	To	Apparent	True		Strat. Lithology	Grain Size	Fresh Colour	Bedding Charact.	Other Sed. Charact.			bd.	it.	
	87.72		0.10		4030	CA;								Solid.	
			0.03			CB;									"
			0.07			CA;									"
			0.03			CB;									"
			0.11	0.07 CA/B		CA;									"
			0.04			CB;									"
			0.06			CA;									"
			0.03			CB;									"
			0.14			CA;									"
			0.02			CB;									"
	88.39		0.04			CC;	wispy calc bands com thro, occ coaly sh lam								"

DRILL CORE LOG

Quintette Coal Limited

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B C N	UNIT		THICKNESS		SAMPLE NO.	LITHOLOGY DESCRIPTION					MARKER rec. r.q.d. d.o.b	STR.	FRAC/m		FRACTURE TYPE AND CHARACTERISTICS		
	From	To	Apparent	True		Strat. Lithology	Grain Size	Fresh Colour	Bedding Charact.	Other Sed. Charact.			bd.	jt.			
																	3.32 3.05 (4.27)
	100.19		12	4.44		fs											solid
			2			ssh											broken
			9			fs											solid
			4			dkgisl.											
			9			ms											
			4			ssh											broken
			44			fs											solid
25°			51			ms											mostly solid
			34			fs interbedded with ssh											
	101.96		7			ssh											fine

Box 50

102.04

DRILL CORE LOG



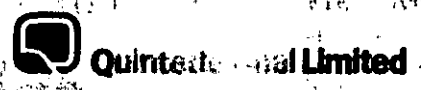
HOLE No. Q11.39502

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B C N	UNIT		THICKNESS		SAMPLE NO.	LITHOLOGY DESCRIPTION					MARKER rec. r.q.d. d.o.b	STR.	FRAC/m		FRACTURE TYPE AND CHARACTERISTICS	
	From	To	Apparent	True		Strat. Lithology	Grain Size	Fresh Colour	Bedding Charact.	Other Sed. Charact.			bd.	jt.		
	88.96		0.16 0.20		4031	CRSH;	loc sandy carb								Partly Broken	
		89.11	0.05 0.06			DKGRSH;	prol carb pl rmins thru									"
	89.11		0.03			DKSH;	coaly sh lam									"
			0.02			CC;										Badly Broken
			0.02			DKGRSH;	grdq to DKSH									Partly Broken
			0.04	0.06 PA/B		CA;	bri, vit, brit									Solid
			0.02			CB;										"
		89.27	0.03			CD;	dull lam									"
10	89.27		0.06			CSH;										"
			0.05			CD;	bri, vit, brit, occ coaly sh lam, calc along vert fine less lam									"
		89.52	0.14 0.21		DKGRSH;	occ coal bands (CA/CB) to/cm									Badly Broken	

12/14

DRILL CORE LOG



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July 15
 clearing, bat

T. Ward
 & Kestrel

B C N	UNIT		THICKNESS		SAMPLE NO.	LITHOLOGY DESCRIPTION					MARKER rec. r.a.d. d.o.b	STR.	FRAC/m		FRACTURE TYPE AND CHARACTERISTICS
	From	To	Apparent	True		Strat. Lithology	Grain Size	Fresh Colour	Bedding Charact.	Other Sed. Charact.			bd.	jt.	
	89.52		0.01		4031	CA; bri, vit, brit								Solid	
			0.02			DKGRSH;									"
			0.03			CSH;									"
			0.01			DKSH;									
						BOX 44									
	89.60		0.01		4032	CSH;								Solid	
(10)	89.60		0.02			CC;									"
			0.14			CA; bri, vit, brit,									"
			0.03			CC;									"
			0.04			CA;									"
			0.09	.23 CA/B		CB;								"	
	90.02		0.10			CA;								"	

DRILL CORE LOG



B C N	UNIT		THICKNESS		SAMPLE NO.	LITHOLOGY DESCRIPTION					MARKER rec. r.a.d. d.o.b.	STR.	FRAC/m		FRACTURE TYPE AND CHARACTERISTICS
	From	To	Apparent	True		Strat. Lithology	Grain Size	Fresh Colour	Bedding Charact.	Other Sed. Charact.			bd.	jt.	
10	90.02		0.02		4032	CC								Solid	
			0.07			CA									"
			0.04	0.26 CA/B		CB									"
			0.12			CA									Partly Broken
	90.30		0.03			CB									"
	90.30		0.02		4033	CSH								Solid	
			0.37			CrSH									"
				0.55											"
			0.16			CrSH									partly broken
			0.09			VFS									Solid
			0.33		CrSH									"	
18	91.34		0.07		SSH									"	

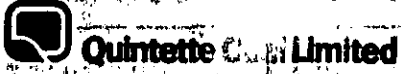
LH

EO
↓

91.44/300'

3.12
305 + 0.07

DRILL CORE LOG



HOLE No. QMD 0950
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B C N	UNIT		THICKNESS		SAMPLE NO.	LITHOLOGY DESCRIPTION					MARKER rec. r.a.d. d.o.b	STR.	FRAC/m		FRACTURE TYPE AND CHARACTERISTICS
	From	To	Apparent	True		Strat. Lithology	Grain Size	Fresh Colour	Bedding Charact.	Other Sed. Charact.			bd.	jt.	
	91.34	91.53	0.19		4033	DKGRSH	loc gndg to DKSH								Solid
	91.53		0.01		4034	CB									"
			0.03			CSH									partly broken
			0.01			CD									"
			0.05			DKSH									"
			0.17			BOX 45									
(18)			0.12		4034	DKSH	gndg to CSH	coal lam thru							Solid
			0.05			CSH	coal lam to 3mm thru								"
			0.25			DKSH	aa								"
			0.10			DKGRSH									"
	92.17		0.02			CB									"

DRILL CORE LOG

 Quintette Coal Limited

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B C N	UNIT		THICKNESS		SAMPLE NO.	LITHOLOGY DESCRIPTION					MARKER rec. r.a.d. d.o.b.	STR.	FRAC/m		FRACTURE TYPE AND CHARACTERISTICS
	From	To	Apparent	True		Strat. Lithology	Grain Size	Fresh Colour	Bedding Charact.	Other Sed. Charact.			bd.	it.	
	92.17		0.02		4034	CSH;								Partly Broken	
			0.03			CD;									"
			0.09			CSH;									"
(18)			0.08			DKGRSH;									Solid
			0.10			CSH; occ coal stringers to 7mm									"
			0.04			CD; inflam, bri, vit, brit coal & CSH									"
	92.56		0.03			CSH; aa									"
*	92.56		0.20		4035	DKGRSH; grdg to DKSH; coal lam to 1mm com thru								"	
			0.43			SH; carb pl rmas thru; grdg to DKGRSH									"
(20)	93.26		0.07			CSH; bands of brit vit coal to 1cm									"
	93.26	93.29	0.03		4036	CC;								"	

DRILL CORE LOG

Quintette Limited

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B C N	UNIT		THICKNESS		SAMPLE NO.	LITHOLOGY DESCRIPTION					MARKER rec. r.g.d. d.o.b	STR.	FRAC/m		FRACTURE TYPE AND CHARACTERISTICS	
	From	To	Apparent	True		Strat. Lithology	Grain Size	Fresh Colour	Bedding Charact.	Other Sed. Charact.			bd.	jt.		
	93.29		0.03		4036	DKSH;									Solid	
			0.01			CA;										"
			0.03			CD;										"
20'			0.04			DKSH; abnt vit coal lam thru										"
			0.06			CSH; abnt vit coal bands										"
			0.02			CB;										"
*	93.63		0.15			CSH grdy to CD; coal lam to 5mm										"
	93.63		0.06			DKGRSH;										"
			0.03			DKSH; w/coal lam up to .5cm										"
(15)						4037	BOX 46									
	93.96		0.24		DKGRSH; loc grdy DKSH, coalified pl fms loc abnt coal lam to 1mm thru										Solid	

DRILL CORE LOG



Quintette Coal Limited

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9392

94.49/310'

303
305 - 0.02

B C N	UNIT		THICKNESS		SAMPLE NO.	LITHOLOGY DESCRIPTION					MARKER rec. r.a.d. d.o.b.	STR.	FRAC/m		FRACTURE TYPE AND CHARACTERISTICS	
	From	To	Apparent	True		Strat. Lithology	Grain Size	Fresh Colour	Bedding Charact.	Other Sed. Charact.			bd.	jt.		
	43.96		0.22		4037										Solid	
			0.07			CSH; carb										"
			0.22 0.29			SH; aa										partly broken / platy
			0.05			DKSH;										"
			0.04			CSH; coal strgs to 1cm										partly broken
			0.02			DKSH;										Solid
(B)			0.03			CSH; intbd w/ coal & DKGRSH; grdg to CD										"
			0.25			DKSH; loc grdg to CSH; coal lam thru										"
	95.00		0.08 0.07			CD; dull occ coaly sh strgs, hard, grdg to CC										Broken
	95.00		0.04			CB; bri, brit vit, occ hi ash lam										"
(B)			0.09		MC										"	
	95.24		0.16		CA; bri, vit, brit w/ occ dull wispy partings to lam										"	

↓
E1

DRILL CORE LOG



HOLE No. QMD 09501
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B C N	UNIT		THICKNESS		SAMPLE NO.	LITHOLOGY DESCRIPTION					MARKER rec. r.g.d. d.o.b	STR.	FRAC/m		FRACTURE TYPE AND CHARACTERISTICS
	From	To	Apparent	True		Strat. Lithology	Grain Size	Fresh Colour	Bedding Charact.	Other Sed. Charact.			bd.	jt.	
	95.24		0.02	} 0.20 CA/B	4038	CB;								Solid	
			0.02			CA;									"
	95.31		0.03	CC; banded bri, vit w/ dull lam										"	
8'			0.04	DKSH;										"	
			0.04	SH; silty ip, carb pl rmns thru, grdg to carb sh										"	
	95.42		0.03	CSH;										"	
	95.42		0.04	CA;										"	
			0.03	CD;										"	
			0.05	} 0.06 CA/B		CA;								"	
			0.01			CB									"
	95.57		0.02	CSH;									"		

DRILL CORE LOG



HOLE No. QMD 89501

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B C N	UNIT		THICKNESS		SAMPLE NO.	LITHOLOGY DESCRIPTION					MARKER rec. r.q.d. d.o.b	STR	FRAC/m		FRACTURE TYPE AND CHARACTERISTICS	
	From	To	Apparent	True		Strat. Lithology	Grain Size	Fresh Colour	Bedding Charact.	Other Sed. Charact.			bd.	jt.		
	95.57	95.58	0.01		4038	CC;									Solid	↑
	95.58		0.25			CSH; abnt coal strgs to 3mm thru									"	
						BOX 47										
			0.05			DKGRSH; occ coal lam to 2mm									platy	
			0.12	0.11		SH; abnt carb pl rns thru; fis									platy	
			0.16			DKGRSH; silty ip, abnt carb pl rns thru									Solid	
(2)			0.07		4039	GRSH; aa									"	
	96.52		0.31	0.30		CSH; loc grd to DKSH, abnt coal lam to 3mm thru, grd to CD at base									"	↓
	96.55		0.03			CD;									"	Coal
			0.01			CSH;									"	↓
	96.61		0.05			DKGRSH;									"	

DRILL CORE LOG



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B C N	UNIT		THICKNESS		SAMPLE NO.	LITHOLOGY DESCRIPTION					MARKER rec. r.q.d. d.o.b	STR.	FRAC/m		FRACTURE TYPE AND CHARACTERISTICS
	From	To	Apparent	True		Strat. Lithology	Grain Size	Fresh Colour	Bedding Charact.	Other Sed. Charact.			bd.	jt.	
	96.61		0.04	0.06 CSH.	4039	CD;	grdg to CSH,	intra. bri,	wt coal and						Solid
			0.02			CSH;									
			0.26	0.27		DKSH;									"
(8)			0.17	0.34 CSH		CSH;									"
			0.04			CSH;									
	97.28		0.13			DKSH;	loc grdg to CSH;	occ coal lam	to 2mm						"
X	97.28		0.02			CD									"
			0.06			CC;									"
(15)			0.12	0.16 CA/B		CA;									"
	97.52		0.04			CB									

DRILL CORE LOG

 Quintette Coal Limited

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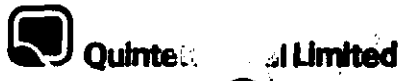
B C N.	UNIT		THICKNESS		SAMPLE NO.	LITHOLOGY DESCRIPTION					MARKER rec. r.q.d. d.o.b	STR.	FRAC/m		FRACTURE TYPE AND CHARACTERISTICS
	From	To	Apparent	True		Strat. Lithology	Grain Size	Fresh Colour	Bedding Charact.	Other Sed. Charact.			bd.	jt.	
	97.52		0.01		4040	CD								Solid	
	97.63		0.10			CB; br, vit, brit w/ dull banding and rare coaly sh frags									"
	97.63		0.14			CSH; loc grdq carb SH, abnt coal frags									"
			0.01	} 0.02 CA/B		CA;									"
	97.78		0.01		CB;										"
					BOX AB										
			0.21		4041	dkgrsh; bc silty abund. carb pf thur								solid	
(15)			0.10			dksh; occas coal lam. to 0.5 cm								"	
			0.05			dkgrsh, as above								"	
			0.11			csb; interlam'd coal & dksh; loc grdq to csp								"	
	98.33		0.07			dksh; silty i/p; occas coal lam to 2mm									

E2P



loc
int

DRILL CORE LOG



HOLE No. QMD 89501
PAGE No. 35 of 73

B C N	UNIT		THICKNESS		SAMPLE NO.	LITHOLOGY DESCRIPTION					MARKER rec. r, q, d, d.o.b.	STR.	FRAC/m		FRACTURE TYPE AND CHARACTERISTICS
	From	To	Apparent	True		Strat. Lithology	Grain Size	Fresh Colour	Bedding Charact.	Other Sed. Charact.			bd.	jt.	
	98.33		6		4041	csk, as above								solid	
			3			cc, gndg to CB								"	
			6			dksh, silty i/p, gndg to csk								"	
			3			CD; csk lamt common thur								badly brkn	
	98.62		11		4042	dksh, silty i/p								mostly solid	
	98.62		14	0.51 CA/B		CB; moderately bright, hard								partly brkn	
			17			CA; bright, vit, brittle; trace calcite along v thin frac; min. dull coally sh inclusions									brkn
	98.94		1			CD								partly brkn	
														"	

DRILL CORE LOG



Quintette Coal Limited

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B C N	UNIT		THICKNESS		SAMPLE NO.	LITHOLOGY DESCRIPTION					MARKER rec. r.q.d. d.o.b	STR.	FRAC/m		FRACTURE TYPE AND CHARACTERISTICS		
	From	To	Apparent	True		Strat. Lithology	Grain Size	Fresh Colour	Bedding Charact.	Other Sed. Charact.			bd.	jt.			
					4042												
	98.94		5	} 007 CB/C												brkn	
			2														
			(9)														
			6														pulverized
			18													badly brkn	
	99.34		4													"	
																solid	
(15)		99.42	4													"	
			21												"		
			8												"		
															"		
	99.75		4												"		

Box 49

330 / 100.58m

3.63 10.59
3.04

9902

B N	UNIT		THICKNESS		SAMPLE NO.	LITHOLOGY DESCRIPTION					MARKER rec. r.a.d. d.o.b.	STR.	FRAC/m		FRACTURE TYPE AND CHARACTERISTICS
	From	To	Apparent	True		Strat. Lithology	Grain Size	Fresh Colour	Bedding Charact.	Other Sed. Charact.			bd.	jt.	
						<i>Box 49</i>									
	99.75		3			cd, grdg to csh; dull; bluish white primp common along vert faces as above									solid
		99.80	②			mc									broken
	99.80		③			dksh									solid
			4			csh, grdg to ca									"
			4			vls; abund calc mat thur									"
		99.95	1			csh									solid
	99.95	100.22	27		4042	CB; abund calc thur									"
(12)			2			CD; min. calc thur, as above									"
			1			ca									"
			3			csh									"
		100.35	7			dksh, lac grdg to csh									"
	100.35	100.39	4			CD interlam'd bands of clean coal & dksh									"



0027

B C N	UNIT		THICKNESS		SAMPLE NO.	LITHOLOGY DESCRIPTION					MARKER rec. r.q.d. d.o.b	STR.	FRAC/m		FRACTURE TYPE AND CHARACTERISTICS	
	From	To	Apparent	True		Strat. Lithology	Grain Size	Fresh Colour.	Bedding Charact.	Other Sed. Charact.			bd.	jt.		
	100.39		2		4042	cc									solid	
			18	0.20 CB/C		CB; bluish-white precip - calc? - common thru along vert. frac.										"
			2			cc										
			3			csk										"
			20			CB										
			11			csk										
			2			cc										
(15)			13	0.50 CB/C		CB										"
			2			cc										
	101.35		33			CB; min bluish-white precip (calc?) along vert. frac.										"

DRILL CORE LOG



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B C N	UNIT		THICKNESS		SAMPLE NO.	LITHOLOGY DESCRIPTION					MARKER rec. r.q.d. d.o.b	STR	FRAC/m		FRACTURE TYPE AND CHARACTERISTICS	
	From	To	Apparent	True		Strat. Lithology	Grain Size	Fresh Colour	Bedding Charact.	Other Sed. Charact.			bd.	jt.		
15°	101.35		12		4043	dksh; loc. gradg to csh									solid	
			10			dkgrsh										"
			3			dksh										"
			2			cc										"
			5			csh										"
	101.75		1		4044	CA									"	
			2			cc										"
			5			CA										"
(14)				0.14												
			9				CA; bright, vit, brittle; rare csh lams									badly brkn top 6cm
	101.95		3		dkgrsh										solid	

1718

B C N	UNIT		THICKNESS		SAMPLE NO.	LITHOLOGY DESCRIPTION					MARKER rec. r.q.d. d.o.b	STR	FRAC/m		FRACTURE TYPE AND CHARACTERISTICS	
	From	To	Apparent	True		Strat. Lithology	Grain Size	Fresh Colour	Bedding Charact.	Other Sed. Charact.			bd.	jt.		
	101.95		7	0.22 CA/B	4044	CA									solid	
			5			CB										"
			8			CA										"
			2			CB										"
	102.18		1			CC									"	
	102.18	1	3			CD, gradg to CC									solid	
14°			6			dkgrsh; abund carb pf thren									"	
	102.34		7			CD; interlam'd coal sh; CD overall									"	
	102.34		1			CC									"	
			8			CA									"	
			1		CC									solid		
	102.51		7		CB											

DRILL CORE LOG



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B C N.	UNIT		THICKNESS		SAMPLE NO.	LITHOLOGY DESCRIPTION					MARKER rec. r, q, d, d, o, b	STR.	FRAC/m		FRACTURE TYPE AND CHARACTERISTICS	
	From	To	Apparent	True		Strat. Lithology	Grain Size	Fresh Colour	Bedding Charact.	Other Sed. Charact.			bd.	jt.		
	102.51	102.53	2	0.10 CB/c	4044	cc									solid	
	102.53		4			dksh										"
		102.64	7	dkgrsh											"	
	102.64		1	cc											solid	
			5	cb											"	
(14)			3	0.24 CA/B		CA; bright, brittle, vit coal									"	
			5			CB; occas csh lam's										"
			7			CA; bright, vit, brittle										"
			4			CB, as above										"
			1			csh										solid
	102.91		1	cb										"		

340' / 102.63 m 3.5 2.50 / 3.05 -0.55

B C N	UNIT		THICKNESS		SAMPLE NO.	LITHOLOGY DESCRIPTION					MARKER rec. r.g.d. d.o.b	STR	FRAC / m		FRACTURE TYPE AND CHARACTERISTICS	
	From	To	Apparent	True		Strat. Lithology	Grain Size	Fresh Colour	Bedding Charact.	Other Sed. Charact.			bd.	jt.		
	102.91		3		4044	cbh								solid		
			13			dkgrsh, gsdg to dksh, sandy i/p; abund pf thin									"	
(1A)	103.10		(3)			M.R.										
	103.10		14	0.27 CA/B		CA									partly solid	
			13			CA										badly brkn to pile
			(3)			MC										
	103.44		4			CB overall, mixed CC → CA									badly brkn	
*	103.44		H 10			dksh									" top 1cm, rest solid	
			3			dkgrsh									solid	
			6			sh									"	
(16)	103.91		30 28		ssh, gsdg to vls (siltstone); abund carb pf thin											
					Box 51											

Handwritten note: "Handwritten note" (partially obscured)

107.74

B C N	UNIT		THICKNESS		SAMPLE NO.	LITHOLOGY DESCRIPTION					MARKER rec. r.q.d. d.o.b	STR	FRAC/m		FRACTURE TYPE AND CHARACTERISTICS
	From	To	Apparent	True		Strat. Lithology	Grain Size	Fresh Colour	Bedding Charact.	Other Sed. Charact.			bd.	jt.	
	103.91		10	0.36											v. badly broken
			26												
16°			46												"
			16												"
			55												"
			57	0.81											"
			56												
16°	107.01		48	47											"

350' / 106.68m

3.08
3.05 + 0.03

Box 52

DRILL CORE LOG



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10706

B C N.	UNIT		THICKNESS		SAMPLE NO.	LITHOLOGY DESCRIPTION					MARKER rec. r.a.d. d.o.b.	STR.	FRAC/m		FRACTURE TYPE AND CHARACTERISTICS
	From	To	Apparent	True		Strat. Lithology	Grain Size	Fresh Colour	Bedding Charact.	Other Sed. Charact.			bd.	jt.	
	107.0.1		29 28		4045	ssh, as above								solid	
(16)		1	2			dksh								"	
		107.35	4			csh								"	
	107.35		3	23 CA/B.		CA								"	
			9			CB overall; mixed								badly broken	
			2			CA								mostly solid	
			5			CB								"	
			4			CD								"	
			1			CC								"	
			7			CA								"	
			2			csh								partly solid	
	107.75		3			CC, gradg to CB								"	

DRILL CORE LOG



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B C N	UNIT		THICKNESS		SAMPLE NO.	LITHOLOGY DESCRIPTION					MARKER rec. r.q.d. d.o.b	STR	FRAC/m		FRACTURE TYPE AND CHARACTERISTICS
	From	To	Apparent	True		Strat. Lithology	Grain Size	Fresh Colour	Bedding Charact.	Other Sed. Charact.			bd.	jt.	
	107.75		5	} CB/c	4045	CB; occas csh lam to 1mm								partly solid	
			2			csh									"
			6	CB; gldg to CC										"	
			3	CD										brkn	
			2	csh										"	
			②	MC										"	
(16)	107.98		3			CC overall; mixed CA to CD								badly brkn	
	107.98		3			csh								partly solid	
			2			dksh								"	
			3	} 6		CB; occas csh lam to 3mm								"	
	108.09		3		EB								solid		
(17)	108.09	108.11	2		dkg csh								"		

Box 53

B C N.	UNIT		THICKNESS		SAMPLE NO.	LITHOLOGY DESCRIPTION					MARKER rec. r.g.d. d.o.b.	STR.	FRAC/m		FRACTURE TYPE AND CHARACTERISTICS
	From	To	Apparent	True		Strat. Lithology	Grain Size	Fresh Colour	Bedding Charact.	Other Sed. Charact.			bd.	it.	
	108.11		5			dksh								solid	
			5			csk								"	
			5			cd								"	
		108.28	2			csk								"	
	108.28		3			dksh								solid	
			5			dkgrsh								"	
			0			sh; carb pf thur; loc silty								"	
		108.61	17			crsh; abund carb pf thur								"	
(17)	108.61		15			vfs; ssh lams; carb pf thur								"	
			30			fs; X-bedded; occas carb pf								"	
			14			crsh; carb								"	
		109.41	21			vfs; loc gradg to fs; bioturb carb pf thur								"	

B C N	UNIT		THICKNESS		SAMPLE NO.	LITHOLOGY DESCRIPTION					MARKER rec. r.q.d. d.o.b	STR	FRAC/m		FRACTURE TYPE AND CHARACTERISTICS	
	From	To	Apparent	True		Strat. Lithology	Grain Size	Fresh Colour	Bedding Charact.	Other Sed. Charact.			bd	jt		
17°	10941		5		4046										solid	
			6			sh; carb if p; loc silty; fissile										basically solid
			8			dkgrsh; incrtly carb; trace pyr										brkn
				15												
	110.20		5			dkgrsh; fissile										badly brkn
	110.20		2			CB										partly brkn
			1	3 CB/C		CC										"
			1			CSH										"
			7			CB; hard; relatively dense; traces of pyr										"
			2			CSH										mostly solid
			4		CB										"	
			10	20 CA/B.	CA; traces of pyr										"	

217/

Box 5A

DRILL CORE LOG



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B C N	UNIT		THICKNESS		SAMPLE NO.	LITHOLOGY DESCRIPTION					MARKER rec. r.q.d. d.o.b	STR.	FRAC/m		FRACTURE TYPE AND CHARACTERISTICS
	From	To	Apparent	True		Strat. Lithology	Grain Size	Fresh Colour	Bedding Charact.	Other Sed. Charact.			bd.	jt.	
			6		4046	CB								solid	
(17)		110.55	2			CC									"
*		110.07	52			cgl; sub-rounded to rounded pebs to 1.5 cm; generally < 0.5 cm; 10-15% porosity MR-*Box 59 has only 109cm of core => usually ~ 2m/box' 370' / 112.78m								"	
		111.07	(90)											513 610 -97	
			0	4.12		cgl; rounded pebs to 1.5 cm								"	
							Box 55								
			209			cgl; pebs to 2cm; 10-15% porosity									solid
						Box 56									
(16)			87			cgl; matrix interbedded v.as; pebs to 1.5cm (gen. < 0.5 cm)								solid	
		116.09	99			cgl as above									

17

DRILL CORE LOG

B C N	UNIT		THICKNESS		SAMPLE NO.	LITHOLOGY DESCRIPTION					MARKER rec. r.q.d. d.o.b	STR.	FRAC/m		FRACTURE TYPE AND CHARACTERISTICS
	From	To	Apparent	True		Strat. Lithology	Grain Size	Fresh Colour	Bedding Charact.	Other Sed. Charact.			bd.	jt.	
16°	116.09		16	} 46		cs, grdg to ms; oolitic from 6-12 cm								solid	
							Box 57								
			30				v. cs; loc oolitic								"
			12				egl; rounded pebs to 1cm								"
			12			v. cs; x-bded; loc oolitic								"	
			17			egl; loc grdg to v. cs; rounded pebs to 1.5cm								"	
			50			v. cs; loc oolitic								solid	
16°			31			egl; rounded pebs to 2cm								"	
			25			v. cs, loc oolitic, as above								"	
	118.16		14			egl; rounded pebs to 1cm								"	
														306 305 (+0.01)	
														390' / 118.81	

B C N	UNIT		THICKNESS		SAMPLE NO.	LITHOLOGY DESCRIPTION					MARKER rec. r.q.d. d.o.b	STR	FRAC/m		FRACTURE TY AND CHARACTERIS
	From	To	Apparent	True		Strat. Lithology	Grain Size	Fresh Colour	Bedding Charact.	Other Sed. Charact.			bd.	it.	
	118.16		16	40		v.cs; pebs to 0.5cm flty thur								solid	
(16)							Box 58								
			24			v.cs, as above								solid	
			122			cgl; rounded pebs to 3cm, gen ≤ 0.5 cm; loc. grdg to v.cs								"	
*			15			ms, grdg to cs; x-bed								solid	
			33			cgl, as above								"	
21°			17	30		cs								"	
							Box 59								
			13			v.cs								solid	
*			40			cgl; sub to well-rounded pebs to 3cm, gen ≤ 1 cm								"	
(17)															
*															
(13)															
	121.22		23			cs, grdg to v.cs; x-bed									

DRILL CORE LOG



Jumbetta Coal Limited

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B C N	UNIT		THICKNESS		SAMPLE NO.	LITHOLOGY DESCRIPTION					MARKER rec. r.q.d. d.o.b	STR	FRAC/m		FRACTURE TYPE AND CHARACTERISTICS			
	From	To	Apparent	True		Strat. Lithology	Grain Size	Fresh Colour	Bedding Charact.	Other Sed. Charact.			bd.	jt.				
																		310 305 + 0.05
	124.32		26			ms, gndg to fs; carb lam thur												solid
(12)						<u>Box 61</u>												
			52			ms; cglitic @ bottom 2cm												solid
*			6			sh; carb; fissile; min interbedded fs												"
10°			7			fs; abund carb pf thur												"
			5			dkgrsh; coaly lam's common thur												brkn badly
			47			ersh; carb i/p; loc gndg to ssh												solid
			48			fs; bioturb thur; carb; loc gndg to ssh												"
			12			dkgrsh; silty i/p; occas. coal lam's												mostly solid
			10			ersh; carb												brkn
	126.69		24			sh; carb pf thur												mostly solid

B C N	UNIT		THICKNESS		SAMPLE NO.	LITHOLOGY DESCRIPTION					MARKER rec. r.q.d. d.o.b.	STR.	FRAC/m		FRACTURE TYPE AND CHARACTERISTICS
	From	To	Apparent	True		Strat. lithology	Grain Size	Fresh Colour	Bedding Charact.	Other Sed. Charact.			bd.	jt.	
	126.69		0.03												partly Broken
			0.27												Broken
(10)			0.37												"
			0.10												partly broken
			0.27												Solid
*	127.73	128.16	0.43												Solid
(15)		128.18	0.02												pulverized
*	128.18		0.31												Solid
		128.54	0.05												"

Box 62

47

128.02/470'

304
305 - 0.01

B C N	UNIT		THICKNESS		SAMPLE NO.	LITHOLOGY DESCRIPTION					MARKER rec. r.q.d. d.o.b	STR	FRAC/m		FRACTURE TYPE AND CHARACTERISTICS
	From	To	Apparent	True		Strat. Lithology	Grain Size	Fresh Colour	Bedding Charact.	Other Sed Charact.			bd	jt.	
22°	128.54		0.15			VFS; a/a									Solid
*															
20°			1.30			VFS; A/A, carb ip									Solid
			0.09			CrSH; sandy ip, carb									Badly Broken
			0.23			VFS; A/A									Solid
			0.036			VFS;									
*															
(15)			0.40			CrSH; mar py, carb, bioturb									Solid
13°	132.79		1.67			VFS; loc gradg SSH, bioturb, carb ip, SSH inter beds,									"

BOX 63

BOX 64

BOX 65

131.06/430

300
304 = 0.04

64

0.036 ← 0.36? ✓

B C N	UNIT		THICKNESS		SAMPLE NO.	LITHOLOGY DESCRIPTION					MARKER rec. r.q.d. d.o.b	STR	FRAC/m		FRACTURE TYPE AND CHARACTERISTICS
	From	To	Apparent	True		Strat. Lithology	Grain Size	Fresh Colour	Bedding Charact.	Other Sed Charact.			bd.	jt.	
	132.79		0.64	↑ 0.30		VFS; A/A								Solid	
											134.11/440'				
13°			1.34	↑ 0.30		VFS; ext bioturb, intbd SSH, carb ip soft sed def, contorted bedding (turbidite?)								Solid	
						BOX 66									
13°	136.42		1.65	↓ 0.50		VFS; A/A								Solid	
											137.16/450'			298 -0.07 305	
	136.42		0.41	↓ 0.50		VFS; intbd SSH; x-bd, bdg somewhat contorted, carb								Solid	
						BOX 67									
*	136.92		0.09	↓ 0.50		VFS; rip up clasts at base; A/A								partly broken	
	136.92		0.02	↓ 0.50		Coal CB, occ SSH lam; bri, vit, brit								Solid	
(12)															
	137.43		0.49	↓ 0.50	4047	Coal CA; bri vit brit w/occ lam ^t dull hi'ash ^t material to 2mm								"	

B C N	UNIT		THICKNESS		SAMPLE NO.	LITHOLOGY DESCRIPTION					MARKER rec. r.q.d. d.o.b	STR.	FRAC/m		FRACTURE TYPE AND CHARACTERISTICS
	From	To	Apparent	True		Strat. Lithology	Grain Size	Fresh Colour	Bedding Charact.	Other Sed. Charact.			bd.	jt.	
	137.43		0.11		4097	Coal CB; hi ash CSH lam incly com								partly broken	
			0.02			CSH;									"
			0.01			Coal CC;									"
			0.13			CB;									"
			0.05			CA; bri, vit, brit, blocky									"
															"
															"
															"
	137.76		0.01			CB									Solid
	137.76		0.05			SSH; carb thru									Solid
	138.28		0.47		VFS; bioturb; carb pl rmas thru									"	
	138.28		0.21		CrSH; occ coal lam to 1cm, carb thru, SSH intbds.									"	
12°	138.89		0.40		VFS; inflam SSH									"	

138.38/454'

92
122 - 0.30

DRILL CORE LOG



HOLE No. QMD89501
PAGE No. 57 of 73

B C N	UNIT		THICKNESS		SAMPLE NO.	LITHOLOGY DESCRIPTION					MARKER rec. r.q.d. d.o.b	STR.	FRAC/m		FRACTURE TYPE AND CHARACTERISTICS
	From	To	Apparent	True		Strat. Lithology	Grain Size	Fresh Colour	Bedding Charact.	Other Sed. Charact.			bd.	jt.	
9°	14251		0.03	} 30		VFS; A/A									Solid
			0.08				SSH; carbip, bioturb								
			0.15			VFS; loc SSH; carb pl rains thin									"
			0.35	} 62		SSH; intbd VFS; carb ip									"
			0.27				BOX 70								
			0.20			SSH; A/A									Solid
			0.22			VFS; intbd SSH; bioturb ip, carb ip									"
			0.22			SSH; loc gidy VFS; carb ip									"
			0.35 0.38			VFS; A/A									"
			0.22			SSH; A/A									"
21°	14523		0.81 0.82	} 114		VFS; A/A, mnt FS.									"

B C N	UNIT		THICKNESS		SAMPLE NO.	LITHOLOGY DESCRIPTION					MARKER rec. r.q.d. d.o.b	STR	FRAC/m		FRACTURE TYPE AND CHARACTERISTICS
	From	To	Apparent	True		Strat. Lithology	Grain Size	Fresh Colour	Bedding Charact.	Other Sed. Charact.			bd	jt.	
						BOX 71									
*	14523		0.32			VFS; bioturb ip, SSH lam thru, carb ip									Solid
											146.3/480'			$\frac{307}{304} + 0.03$	
23°			1.70			VFS; A/A									Solid
				2.13		BOX 72									
*			0.43			VFS; A/A									Solid
22°			0.39			SSH; carb ip, tr py									"
			0.23			CrSH; loc silty, carb ip,									"
			0.28			SH; carb plains thru									"
				119							149.35/490'			$\frac{303}{305} - 0.02$	
	14930	D-73	0.72			SH; AA, loc silty									Solid
						BOX 73									

B C N	UNIT		THICKNESS		SAMPLE NO.	LITHOLOGY DESCRIPTION					MARKER rec. r.q.d. d.o.b.	STR.	FRAC/m		FRACTURE TYPE AND CHARACTERISTICS
	From	To	Apparent	True		Strat. Lithology	Grain Size	Fresh Colour	Bedding Charact.	Other Sed. Charact.			bd.	ft.	
	149.30		0.19			SH; A/A									Solid
(22)			1.74	1.31		CrSH; loc sandy, carb ip, grad to SSH									"
18"			0.61			VFS; bioturb ip, mnr intbd SSH; carb pl rms thru, loc grad to FS									"
						BOX 74									
			0.20			VFS; grad VFS, x-bd, carb pl rms thru									Solid
			0.02			VFS;									"
				35											
			0.33			VFS; intbd SSH; bioturb ip, carb									Solid
11"			0.71			SSH; mnr intbd VFS, carb									"
	153.45		0.78			CrSH; loc sandy, carb ip									partly broken
						BOX 75									

152.40/500

310
305 +0.05

B C N	UNIT		THICKNESS		SAMPLE NO.	LITHOLOGY DESCRIPTION					MARKER rec. r.q.d. d.o.b	STR.	FRAC/m		FRACTURE TYPE AND CHARACTERISTICS
	From	To	Apparent	True		Strat. Lithology	Grain Size	Fresh Colour	Bedding Charact.	Other Sed. Charact.			bd	jt.	
	153.45		0.19	} 97	4048	GrSH; A/A								Solid	
			0.27			SH; carb ip, fissile									"
				} 83											
	154.47		0.56			SH; A/A						154.84/508'			228 244 -0.16
			0.12	DKGRSH;											Broken
			0.12	SH; silty ip, carb.											"
	155.05 ²		0.40	0.34		DKGRSH; loc silty, carb.									badly broken
(11)	155.05		0.02			Coal CC;									partly broken
			0.01			CSH;									"
			0.02	} 0.10		Coal CC;									"
			0.08 0.09		Coal CB;										"
	155.21		0.02		DKSH									"	

DRILL CORE LOG

B C N	UNIT		THICKNESS		SAMPLE NO.	LITHOLOGY DESCRIPTION					MARKER rec. r.q.d. d.o.b	STR.	FRAC/m		FRACTURE TYPE AND CHARACTERISTICS
	From	To	Apparent	True		Strat. Lithology	Grain Size	Fresh Colour	Bedding Charact.	Other Sed. Charact.			bd.	jt.	
	155.21		0.06	} 10 CB/C	4048	CB;								Solid	
			0.02			CC;									"
			0.06			CB;									"
			0.04			CC;									"
			0.06	} 17 CA/B.		BOX 76									
(11)			0.07			CA;									Partly Broken
			0.11			CB;									Solid.
			0.02			CD;									"
			0.05	} 16 CA/B.		CA;									"
	155.73		0.11			CB; dull ore bri, vit bands to 2mm, hd fr calc thru									Solid
	155.77		0.04		CSH;										

B C N	UNIT		THICKNESS		SAMPLE NO.	LITHOLOGY DESCRIPTION					MARKER rec. r.g.d. d.o.b	STR.	FRAC/m		FRACTURE TYPE AND CHARACTERISTICS	
	From	To	Apparent	True		Strat. Lithology	Grain Size	Fresh Colour	Bedding Charact.	Other Sed. Charact.			bd	jt.		
	155.77	155.78	0.01		4098	DKGRSH;								Solid		
			0.01	} 20 CA/B.		CA;									"	
			0.14			CB;									"	
	156.1		0.05	} 10 CB/C		CB;									Solid	
			0.04			CC;										"
(11)			0.06			CB; pred bri vit brit, occ dull hi ash lam										"
			0.04	} 6 CA/B		CA;									"	
			0.02			CB										"
			0.01			CD;										"
	156.17		0.02			DKSH;									"	
			0.03	} 8 CA/B		CB;									partly broken	
	156.25		0.05			CA;									broken	

B C N	UNIT		THICKNESS		SAMPLE NO.	LITHOLOGY DESCRIPTION					MARKER rec. r.q.d. d.o.b	STR.	FRAC/m		FRACTURE TYPE AND CHARACTERISTICS	
	From	To	Apparent	True		Strat. Lithology	Grain Size	Fresh Colour	Bedding Charact.	Other Sed. Charact.			bd.	jl.		
	56.25		0.01		4048	CSH									Broken	
			0.18 0.20			CB; mns calc along vert frac, occ CSH lam to 2mm										Broken
			0.03	21 CA/B		CA;										Solid
			0.04			CC;										"
			0.07			CA; calc along vert frac thru										"
			0.02			CB;										"
			0.42 0.49			CB; bottom .3ft badly broken, mixed, calc lined vert frac thru, occ coaly sh partings to lam										Broken
				49 CA/B												
	157.16		0.14			CA; fr calc along vert frac										Solid
						BOX 77										

157.58/517

328
274 +0.54

DRILL CORE LOG



1.73
2 = .18
3 = .68

B C N	UNIT		THICKNESS		SAMPLE NO.	LITHOLOGY DESCRIPTION					MARKER rec. r.q.d. d.o.b	STR	FRAC/m		FRACTURE TYPE AND CHARACTERISTICS
	From	To	Apparent	True		Strat. Lithology	Grain Size	Fresh Colour	Bedding Charact.	Other Sed. Charact.			bd	jt	
	157.16		0.20	↑	404E	CB;								Solid	
			0.06			CA;									"
			0.06			CB;									"
			0.02			CA;									"
			0.01			CC;									"
			0.02			CB;									"
(ii)			0.03			CA									"
			0.31 0.35			46 CA/B.	CB; mac calc along vert fracture bands to 5mm CD/CSH; bit vit band to 1cm thru								"
			0.06					CB; A/A							
			0.04			CA									"
	157.98		0.01	CC									"		

DRILL CORE LOG



HOLE No. QMD 89501
PAGE No. 66 of 73

B C N	UNIT		THICKNESS		SAMPLE NO.	LITHOLOGY DESCRIPTION					MARKER rec. r.q.d. d.o.b.	STR.	FRAC/m		FRACTURE TYPE AND CHARACTERISTICS
	From	To	Apparent	True		Strat. Lithology	Grain Size	Fresh Colour	Bedding Charact.	Other Sed. Charact.			bd	jt.	
	152.98		0.21		4048	CA;								Solid	
			0.02			CSH;									"
			0.19			CA; acc dull bands CC; rare CSH lam									"
			0.02			CC;									"
			0.06			CA;									"
			0.01			CSH;									"
(11)			0.04			CC;									"
			0.02			CA;									"
			0.03			CA; A/A									Solid
			0.07			CB;									"
			0.04	96 CA/B		CA;									"
	158.93		0.24 0.26			CB;									"

DRILL CORE LOG

Quintette Limited

HOLE No. QHD 89501

PAGE No. 67 of 73

B C N.	UNIT		THICKNESS		SAMPLE NO.	LITHOLOGY DESCRIPTION					MARKER rec. r.q.d. d.o.b	STR.	FRAC/m		FRACTURE TYPE AND CHARACTERISTICS
	From	To	Apparent	True		Strat. Lithology	Grain Size	Fresh Colour	Bedding Charact.	Other Sed. Charact.			bd.	jt.	
			0.04	↑	4048	CA;								Solid	
			0.22 0.24			CB; calc along vert frac thru; hd									"
			0.50 0.32			CB; thin ss lam thru, gradg to CA									Solid
			0.03			CSH;									"
(ii)			0.03			CD;									"
			0.05			CA;									"
			0.04			CB; occ shly lam afa; calc along vert frac									"
			0.09			CA;									"
			0.04			49 CA/B.	CB;								"
		15989	0.12			CA; occ sh lam to 1mm, calc along vert fracs.									"

B C N	UNIT		THICKNESS		SAMPLE NO.	LITHOLOGY DESCRIPTION					MARKER rec. r.g.d. d.o.b.	STR.	FRAC/m		FRACTURE TYPE AND CHARACTERISTICS
	From	To	Apparent	True		Strat. Lithology	Grain Size	Fresh Colour	Bedding Charact.	Other Sed. Charact.			bd	jt.	
	159.89		0.12		404E	CA ;	bri, vit, brit	A/A						Solid	
			0.02			CB ;								"	
											160.63/527			295 305 (-0.10)	
	160.04		0.01			CB ;								badly broken	
	160.09		0.06			DKKSH ;	silty ip							Solid	
			0.05			DKSH ;	S/S, mnr shearing							badly broken	
			0.02			CC ;								"	
	160.23		0.06			DKSH ;	A/A							Solid	
	160.33		0.09			CB ;								"	
			0.01	17 CB/C		CC ;								"	
			0.07			CB ;	mnr col. along vert frac.							"	
	160.41		0.01			CD ;								"	

DRILL CORE LOG

 Quintens Coal Limited

HOLE No. QMD89501

PAGE No. 69 of 73

July 25 31
 intermittent chert
 common, sh. base

16077

B C N	UNIT		THICKNESS		SAMPLE NO.	LITHOLOGY DESCRIPTION					MARKER rec. r.q.d. d.o.b	STR.	FRAC/m		FRACTURE TYPE AND CHARACTERISTICS	
	From	To	Apparent	True		Strat. Lithology	Grain Size	Fresh Colour	Bedding Charact.	Other Sed. Charact.			bd	jt.		
	160.41		0.03		4048	CB;									Solid	
			0.04	5G CA/B		CA;										"
			0.47			CB, occ hi ash sh lam to 2mm; mar calc along vert frac, gradg to CA										"
			0.60													
			0.03			CC; CSH lam to 3mm										"
			0.07			CA;										"
			0.03			CB;										"
						BOX 79										
			0.07			CA;										Solid
			0.10			CB;										"
			0.25 0.26	12G CA/B		CA; low gradg to CB, occ calc lined vert frac										"
	161.79		0.27 0.28			CB; calc lined vert frac, occ sh lam										

DRILL CORE LOG



HOLE No. QMDB9501

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B C N	UNIT		THICKNESS		SAMPLE NO.	LITHOLOGY DESCRIPTION					MARKER rec. r.q.d. d.o.b	STR	FRAC/m		FRACTURE TYPE AND CHARACTERISTICS
	From	To	Apparent	True		Strat. Lithology	Grain Size	Fresh Colour	Bedding Charact.	Other Sed. Charact.			bd.	jt.	
	161.79		0.27		4048	CB; gradg to CA; abnt calc infil vert frac								Solid.	
			0.30 0.34			CA; bottom A badly broken								bottom to pulverized	
(11)			0.02			CC, dull metallic lustre								"	
			0.10 DIT			CA; bri, vit. brit								pulverized	
*	162.50		0.02			CB;								solid	
			0.60			MS; occ rip up clast, carb pl rims thin, massive									
				273		BOX 80					163.68/537			325 305 (+20)	
12°	165.23		2.05			MS, ext bioturb from 76-205 horizontal and sl inclined burrows to 3cm x 1mm								Solid	
	165.23					BOX 81									
			0.07			CS, calc cmt								Solid	
	165.81		0.51			MS; loc gradg to CS, x-bds								"	

R	UNIT		THICKNESS		SAMPLE NO.	LITHOLOGY DESCRIPTION					MARKER rec. r.q.d. d.o.b	STR	FRAC/m		FRACTURE TYPE AND CHARACTERISTICS
	From	To	Apparent	True		Strat. Lithology	Grain Size	Fresh Colour	Bedding Charact.	Other Sed. Charact.			bd.	jt.	
	165.81		0.13			CS; A/A									Solid
(12)			0.08			MS,									"
*			0.32			CS; loc grdg to MS; x-bd									"
				41							166.73/547		316 305	(+0.11)	
			0.09			CS; A/A									"
15°			0.69			MS, loc grdg to CS									"
			0.21			CS; A/A									"
				41											
			0.20			CS; A/A									Solid
			0.74			MS; A/A, into CS, x-bd									"
*															
(12)			0.05			CSH; carb ip									"
*															
(9)	169.40		1.08			MS; grdg to FS; mass									

DRILL CORE LOG



HOLE No. RND 8950'

PAGE No. 72 of 73

B C N	UNIT		THICKNESS		SAMPLE NO.	LITHOLOGY DESCRIPTION					MARKER rec. r.a.d. d.o.b	STR	FRAC/m		FRACTURE TYPE AND CHARACTERISTICS		
	From	To	Apparent	True		Strat. Lithology	Grain Size	Fresh Colour	Bedding Charact.	Other Sed. Charact.			bd.	jt.			
																306 335	- 0.21)
	169.40		0.05			MS; A/A, occ carb pl rmn's, bioturbip											Solid
						BOX 83											
9'			2.10			MS; loc bioturb, carb lam ^{con} thru .78-2.00											Solid
						BOX 84											
10'	172.62		1.07			MS; A/A, mnr carb lam bedding parallel Fe claystone @ 56-57											Solid
																	+0.17 TD
						<u>End of Hole</u>											

QMD89502 DRILL CORE LOG

Logged: G. Cane, N. Hori

Sampled: August 1989

Samples: 4049 - 4065

Core Boxes: 1 - 107

Pages: 1 - 77

B C N	UNIT		THICKNESS		SAMPLE NO.	LITHOLOGY DESCRIPTION					MARKER rec. r.a.d. d.o.b	STR.	FRAC/m		FRACTURE TYPE AND CHARACTERISTICS
	From	To	Apparent	True		Strat. Lithology	Grain Size	Fresh Colour	Bedding Charact.	Other Sed. Charact.			bd	jt	
	0.00	3.23				OVEN / RESOLUT / BROKEN o/c <i>CSG</i> QMD89502									
						Box 1									
						fs								brkn	
				1.99		fs interbed with vfs; rust staining on bedding surfaces								"	
						Box 2									
						fs								brkn	
				1.99										2.78 ?	
											6.1m/20'				
65				5.15		fs; calc-filled frags perpend to bdg								partly solid	
						Box 3									
45				7.9		fs								partly brkn.	
				9.0		ssb								brkn	
						fs								solid	
	9.14			2.9											

B C N	UNIT		THICKNESS		SAMPLE NO.	LITHOLOGY DESCRIPTION					MARKER rec. r.g.d. d.o.b	STR.	FRAC/m		FRACTURE TYPE AND CHARACTERISTICS	
	From	To	Apparent	True		Strat. Lithology	Grain Size	Fresh Colour	Bedding Charact.	Other Sed. Charact.			bd.	jt.		
*	1342		32	} 89												
			27													
			66													
20°			59	} 126												
			20													
			52													
			9													
50°	1742		140	} 210												

Box 6

20/15 min

L/M
2.13 (-.34)

Box 7

Box 8

B C N	UNIT		THICKNESS		SAMPLE NO.	LITHOLOGY DESCRIPTION					MARKER rec. r.q.d. d.o.b	STR.	FRAC/m		FRACTURE TYPE AND CHARACTERISTICS
	From	To	Apparent	True		Strat. Lithology	Grain Size	Fresh Colour	Bedding Charact.	Other Sed. Charact.			bd.	jt.	
	17.42		70			ssh; friable									brn
			9			vfs									solid
(20)											60/18.29				3.00 3.05 (-.05)
			18			ssh									solid
			26			ssh									solid
*			48			fs interbedded with vfs									"
			24			ssh									solidly solid
			10			ssh									solid
			53			ms									"
26 ^c			23			fs interbedded with ms									solid
*															
(36)	21.26		73			ms									solid

DRILL CORE LOG

B C N	UNIT		THICKNESS		SAMPLE NO.	LITHOLOGY DESCRIPTION					MARKER rec. r.a.d. d.o.b	STR	FRAC/m		FRACTURE TYPE AND CHARACTERISTICS
	From	To	Apparent	True		Strat. Lithology	Grain Size	Fresh Colour	Bedding Charact.	Other Sed. Charact.			bd.	jt.	
															$\frac{3.05}{3.05}$ (0.0)
*	21.26		22	95		ms, as above						70' / 21.39 m			solid
								Box 10							
			210	280		ms									solid
								Box 11							
46°			70			ms interbedded with es									mostly solid
↓ ↑												80' / 24.38 m			$\frac{3.02}{3.05}$ (-.03)
(38)			133			ms; calc-filled zones (calc ~ 0.5 cm thick)									
* ↑								Box 12							
30°			161			ms									solid
				244											
	27.52		30			ms, as above						90' / 27.43 m			$\frac{2.94}{3.05}$ (-.11)
															"

DRILL CORE LOG

 Quintette Coal Limited

HOLE No. RND39502

PAGE No. 5 of 77

B C N	UNIT		THICKNESS		SAMPLE NO.	LITHOLOGY DESCRIPTION					MARKER rec. r.q.d. d.o.b	STR.	FRAC/m		FRACTURE TYPE AND CHARACTERISTICS
	From	To	Apparent	True		Strat. Lithology	Grain Size	Fresh Colour	Bedding Charact.	Other Sed. Charact.			bd.	jt.	
						Box 13									
*	27.52		53	↑		ms									solid
			[5] (28)			drilling mud & cuttings mixed with sand									
			66			ms									
			[3]			sh, drilling mud & cuttings mixed with sand									
22°			70			ms									
						Box 14									
			15	196.		ms									solid
			[14]			drilling mud sandstone cuttings mixed with sand									
[15°]	30.23		35			ms									

3.01
3.05 (-04)

B C N.	UNIT		THICKNESS		SAMPLE NO.	LITHOLOGY DESCRIPTION					MARKER rec. r.q.d. d.o.b	STR	FRAC/m		FRACTURE TYPE AND CHARACTERISTICS
	From	To	Apparent	True		Strat. Lithology	Grain Size	Fresh Colour	Bedding Charact.	Other Sed. Charact.			bd	jt.	
	30.23		138	} 298											solid
			160												mo. th. solid
*			5												
(25)			24												
*															
			28												solid
			72												"
*															
(20)	35.50		100												

ms. cs. clasts up to 4cm in dia.

Box 15

ms. calc. filled base exposed to id. mineral staining
on calc. bedding planes

outlgs; drilling mud mixed into mat rock ← included
as MR.

110' / 33.50

3.03
3.05 (-0.2)

ms.

Box 16

fs

solid

cs

ms.

Box 17

B C N	UNIT		THICKNESS		SAMPLE NO.	LITHOLOGY DESCRIPTION					MARKER rec. r.q.d. d.o.b.	STR.	FRAC/m		FRACTURE TYPE AND CHARACTERISTICS
	From	To	Apparent	True		Strat. Lithology	Grain Size	Fresh Colour	Bedding Charact.	Other Sed. Charact.			bd.	jt.	
20*	35.5B		72	180		ms									col.
			45			fs									"
			95			cs									"
				130					Box 18						
17*			35			cs									solid
			130			fs interbedded with ssh									
				161											
			31			as above									
			10			ms									"
				54					Box 19						
			24			ms									solid
22*	41.67		167			fs interbedded with ssh									"

DRILL CORE LOG



HOLE No. QMD99502
PAGE No. 8 of 77

B C N	UNIT		THICKNESS		SAMPLE NO.	LITHOLOGY DESCRIPTION					MARKER rec. r.g.d. d.o.b	STR.	FRAC/m		FRACTURE TYPE AND CHARACTERISTICS		
	From	To	Apparent	True		Strat. Lithology	Grain Size	Fresh Colour	Bedding Charact.	Other Sed. Charact.			bd	jt.			
	41.67		28	61												solid	
(22)																	Box 20
*			38														"
			22	162													"
20°																	
*			140														"
																	Box 21
			162	196													
16°																	
			39														
↓	45.86																solid
																	Box 22

B C N	UNIT		THICKNESS		SAMPLE NO.	LITHOLOGY DESCRIPTION					MARKER rec. r.g.d. d.o.b.	STR.	FRAC/m		FRACTURE TYPE AND CHARACTERISTICS
	From	To	Apparent	True		Strat. Lithology	Grain Size	Fresh Colour	Bedding Charact.	Other Sed. Charact.			bd.	jt.	
	45.86		31			ssh interbedded with fs									
24°			11			fs									
			9			ssh									
(35)			108			ms; calc-filled fines parallel to bdg									
			19			fs interbedded with ssh									
			24			fs									
						Box 23									
			32			fs								solid	
42°			85	435		fs interbedded with ssh									
			17			fs									
	49.86		64			fs interbedded with ssh									
						Box 24									

DRILL CORE LOG



HOLE No. QW1789202
PAGE No. 10 of 77

B C N	UNIT		THICKNESS		SAMPLE NO.	LITHOLOGY DESCRIPTION					MARKER rec. r.g.d. d.o.b	STR	FRAC/m		FRACTURE TYPE AND CHARACTERISTICS	
	From	To	Apparent	True		Strat. Lithology	Grain Size	Fresh Colour	Bedding Charact.	Other Sed. Charact.			bd	jt		
41	49.96		66	↑											solid	
											48.77					5.00 3.05 (+1.95) misplaced marker!
			94													
			11													partly brk
			7													
				↓												
			16													
*																
				↓												
41°			160													solid
*																
				↓												
			49													
(38)				↓												
			71													
				↓												
			54.11													partly brk

B C N	UNIT		THICKNESS		SAMPLE NO.	LITHOLOGY DESCRIPTION					MARKER rec. r.g.d. d.o.b	STR.	FRAC/m		FRACTURE TYPE AND CHARACTERISTICS		
	From	To	Apparent	True		Strat. Lithology	Grain Size	Fresh Colour	Bedding Charact.	Other Sed. Charact.			bd.	jt.			
38°	54.11		66	95											mostly solid		
																3.13 3.05 (t.08)	
			29													"	
*			89													"	
																Box 27	
37°			124													fs interbedded with vfs	
			12													ssh; calc-filled frags	
*			61													fs interbedded with vfs	
				165												Box 28	
																	5.8.01 190/5791m
																	3.15 3.05 (t.10)
35°			102													fs interbedded with ssh	
			59.05	11												ssh; friable	

DRILL CORE LOG



Quintette Coal Limited

HOLE No. QMD89502

PAGE No. 12 of 77

B C N.	UNIT		THICKNESS		SAMPLE NO.	LITHOLOGY DESCRIPTION					MARKER rec. r.a.d. d.o.b.	STR	FRAC/m		FRACTURE TYPE AND CHARACTERISTICS
	From	To	Apparent	True		Strat. Lithology	Grain Size	Fresh Colour	Bedding Charact.	Other Sed. Charact.			bd.	jt.	
(35)	59.05		22			fs								partly broken	
*														"	
85°			23			fs (BCN to 85° within this unit)									
			35			fs								mostly solid	
*			122			fs; s/s; calc-filled frags								broken	
80°			61			fs, as above								partly broken	
*															
87°			191			fs; calc-filled frags; rust stained sections								mostly solid	
↓		64.23	64			fs								solid	

Box 29

Box 30

Box 31

205/60.96

210/64.23

3.15
3.05 (+.10)

3.16
3.05 (+.11)

(+31)

B C N.	UNIT		THICKNESS		SAMPLE NO.	LITHOLOGY DESCRIPTION					MARKER rec r.q.d. d.o.b.	STR.	FRAC/m		FRACTURE TYPE AND CHARACTERISTICS
	From	To	Apparent	True		Strat. Lithology	Grain Size	Fresh Colour	Bedding Charact.	Other Sed. Charact.			bd.	jt.	
75°	44.23		139												solid
*															
(90°)			176												solid
(80°)															
			26												
*															
81°			200												solid
			72	348											mostly solid
↓	71.12		76												"

6206/220

2.15
3.05 (4.10)

Box 33

Box 34

230/101

2.48
3.05 (-.07)

B C N.	UNIT		THICKNESS		SAMPLE NO.	LITHOLOGY DESCRIPTION					MARKER rec. r.q.d. d.o.b	STR.	FRAC/m		FRACTURE TYPE AND CHARACTERISTICS
	From	To	Apparent	True		Strat. Lithology	Grain Size	Fresh Colour	Bedding Charact.	Other Sed. Charact.			bd.	jt.	
80°	71.12		52			ms								solid	
								Box 35							
			54			ms								solid	
52°			105	1.69		ms interbedded with sch								"	
			10			ms								"	
										140/23.1			2.47 3.05	(.08)	
			11			ms								solid	
				.54				Box 36							
55°			43			ms								solid	
			26			fs interbedded with sch.								"	
(42)				1.56											
	75.43		130			fs; calc-filled bars common (possible faulted); conc appear broken along conc faces				~ 75A	fault			fine solid	

DRILL CORE LOG

 Quintette Limited

HOLE No. 011099502

PAGE No. 15 of 77

B C N.	UNIT		THICKNESS		SAMPLE NO.	LITHOLOGY DESCRIPTION					MARKER rec. r.q.d. d.o.b.	STR.	FRAC/m		FRACTURE TYPE AND CHARACTERISTICS
	From	To	Apparent	True		Strat. Lithology	Grain Size	Fresh Colour	Bedding Charact.	Other Sed. Charact.			bd.	jt.	
↑	75.43		14												brk
			24												brk
			47												partly brkn
35°			101												"
*															
22°			191												solid
	79.36		9												partly brkn

76.77
250/76.201
2.95
3.05
-0.10
2.94
3.05
-0.06

DRILL CORE LOG

B C N	UNIT		THICKNESS		SAMPLE NO.	LITHOLOGY DESCRIPTION					MARKER rec. r.q.d. d.o.b.	STR.	FRAC/m		FRACTURE TYPE AND CHARACTERISTICS
	From	To	Apparent	True		Strat. Lithology	Grain. Size	Fresh Colour	Bedding Charact.	Other Sed. Charact.			bd.	jt.	
								Box 39							
	79.36		18			ssh									
*			32			fs		interbedded with ssh							partly bed.
46°			92			ms									
↓															
(33)			38			fs		interbedded with ssh							
*								Box 40							
28°			107			fs		interbedded with ssh							solid
			97	2.34		as above									
								Box 41							
			30			fs									
↓	83.71		21			ssh									

8232
270/8232
1.02

2.96
3.05 (-.09)

DRILL CORE LOG



HOLE No. Q1189.02
PAGE No. 17 of 77

B C N	UNIT		THICKNESS		SAMPLE NO.	LITHOLOGY DESCRIPTION					MARKER rec. r.q.d. d.o.b.	STR.	FRAC/m		FRACTURE TYPE AND CHARACTERISTICS		
	From	To	Apparent	True		Strat. Lithology	Grain Size	Fresh Colour	Bedding Charact.	Other Sed. Charact.			bd.	jt.			
↑	83.71		33	} 1.29											solid		
20°			42													"	
			54													fractured with horizontal	
↓																	
			30													brkn	
			25													solid	
32'			88													"	
*			63	} 2.56												"	
29°	88.02		96													mostly solid	

280/853/211

Box 42

2.77
3.05 (-.28)

Box 43

B C N	UNIT		THICKNESS		SAMPLE NO.	LITHOLOGY DESCRIPTION					MARKER rec. r.q.d. d.o.b.	STR.	FRAC/m		FRACTURE TYPE AND CHARACTERISTICS		
	From	To	Apparent	True		Strat. Lithology	Grain Size	Fresh Colour	Bedding Charact.	Other Sed. Charact.			bd.	jt.			
																	3.02 3.05 (-.03)
*	88.02		97	↑		as above					290/88.02 89.11 (-.28)						solid
								Box 44									
21°			185			f. micaceous with ssh.											
			20.	2.14		as above					300/91.44						2.82 3.05 (-.23)
								Box 45									
*			9			fs											solid
			14			ssh.											"
22°			184			f. micaceous with ssh; some coloured staining											partly broken
								Box 46									
	93.91		80	3.23		f. carbonized mat. ~5%											"

DRILL CORE LOG

 Quintette Limited

HOLE No. 01189602

PAGE No. 19 of 77

B C N	UNIT		THICKNESS		SAMPLE NO.	LITHOLOGY DESCRIPTION					MARKER rec r.g.d. d.o.b	STR	FRAC/m		FRACTURE TYPE AND CHARACTERISTICS
	From	To	Apparent	True		Strat. Lithology	Grain Size	Fresh Colour	Bedding Charact.	Other Sed. Charact.			bd.	jt.	
															3.07 3.05 (+.02)
										310/44.49					
↓	93.91		59			ms above									mainly solid
↑			5			ssh									
24°			9			fs									
			14			ssh									
↑			35			fs									solid
						Box 47									
30°			55			ms; 5 mm sh lenses									solid
			15			ms; sh lenses to 3 cm									
	mainly fine		6			ssh; friable									bitu
			20			ms									mainly bitu
	96.17		8			ssh; friable									

B C N	UNIT		THICKNESS		SAMPLE NO.	LITHOLOGY DESCRIPTION					MARKER rec. r.q.d. d.o.b.	STR.	FRAC/m		FRACTURE TYPE AND CHARACTERISTICS
	From	To	Apparent	True		Strat. Lithology	Grain Size	Fresh Colour	Bedding Charact.	Other Sed. Charact.			bd.	jt.	
	96.17		70	1.29											brk.
			21												
			38												solid
			3												partly brk.
30°			90												"
			3												brk
			2												"
			14												"
			5												"
	98.64		1												"

98.73

DRILL CORE LOG



HOLE No. 01189502

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B C N	UNIT		THICKNESS		SAMPLE NO.	LITHOLOGY DESCRIPTION					MARKER rec. r.q.d. d.o.b	STR.	FRAC/m		FRACTURE TYPE AND CHARACTERISTICS
	From	To	Apparent	True		Strat. Lithology	Grain Size	Fresh Colour	Bedding Charact.	Other Sed. Charact.			bd.	jt.	
(30)	98.64		2			fs									lin
↓			3			crsh									
			2			fs									
			2'			ms									
			2			dkgrsh									
			5			ms									
			29			ms									solid
			3			dkgrsh									"
20°			30			ms									"
↓			20			crsh									
(25)	100.19		32			fs; compaction features (flaives)									

DRILL CORE LOG ¹⁰⁰⁻²⁸



HOLE No. Q111289-01

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B C N	UNIT		THICKNESS		SAMPLE NO.	LITHOLOGY DESCRIPTION					MARKER rec. r.q.d. d.o.b	STR.	FRAC/m		FRACTURE TYPE AND CHARACTERISTICS
	From	To	Apparent	True		Strat. Lithology	Grain Size	Fresh Colour	Bedding Charact.	Other Sed. Charact.			bd.	jt.	
															3.32 (4.27) 3.05
		100.19		12		fs									solid
				2		ssh									broken
				9		fs									solid
				4		dkgist.									
				9		ms									
				4		ssh									broken
				44		fs									solid
25°				51		ms									mostly solid
				34		fs interbedded with ssh									
		101.96		7		ssh									fine

330/100-58/121

Box 50

102.04

B C N.	UNIT		THICKNESS		SAMPLE NO.	LITHOLOGY DESCRIPTION					MARKER rec. r.q.d. d.o.b	STR.	FRAC/m		FRACTURE TYPE AND CHARACTERISTICS
	From	To	Apparent	True		Strat. Lithology	Grain Size	Fresh Colour	Bedding Charact.	Other Sed. Charact.			bd.	jt.	
															1.76 1.83 (-.07)
	101.95		8			dksl									
			5			st									
			20			ufs									mostly solid
(25)			7			ssh									brk
			17			fs									loosely solid
			41			ms/es									solid
								Basal							
			5			fs									sl
			2			cc									
22'			36			fs									
	103.58		22			rgl									

DRILL CORE LOG

B C N	UNIT		THICKNESS		SAMPLE NO.	LITHOLOGY DESCRIPTION					MARKER rec. r.q.d. d.o.b.	STR.	FRAC/m		FRACTURE TYPE AND CHARACTERISTICS
	From	To	Apparent	True		Strat. Lithology	Grain Size	Fresh Colour	Bedding Charact.	Other Sed. Charact.			bd.	jt.	
	103.50		16			cs									
			124			cgl (1 large limestone cobbles @ 97cm; rounded clasts									
				2.44											
			120			cgl									
			11			cs									
			53			cgl									
22°			21			cs									
			5			cgl									
				1.56											
	108.08		100			cgl;									

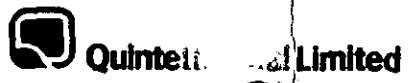
346/105.46

3.03
3.05 (-0.02)

Box 52

Box 53

DRILL CORE LOG



HOLE No. Q11-89502

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B C N	UNIT		THICKNESS		SAMPLE NO.	LITHOLOGY DESCRIPTION					MARKER rec. r.q.d. d.o.b	STR.	FRAC/m		FRACTURE TYPE AND CHARACTERISTICS	
	From	To	Apparent	True		Strat. Lithology	Grain Size	Fresh Colour	Bedding Charact.	Other Sed. Charact.			bd.	jt.		
																3.10 3.05 (1.05)
	108.08		31			cgl										solid
			5			cs										"
			22			sf										"
			44			cs interbedded with cgl clasts to 10cm										"
						Box 54										
(22)		109.20	10			cs; clasts up to 2.75cm										solid
	109.20		50			cgl with clasts to 10cm										"
			10			ms										"
			7			csk										mod. solid
*	109.87		5			CD										"
(28)		109.99	7		4049	CA										"

12
DRILL CORE LOG



HOLE No. 0111.99.02

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12.9

B C N	UNIT		THICKNESS		SAMPLE NO.	LITHOLOGY DESCRIPTION					MARKER rec. r.q.d. d.o.b	STR	FRAC/m		FRACTURE TYPE AND CHARACTERISTICS
	From	To	Apparent	True		Strat. Lithology	Grain Size	Fresh Colour	Bedding Charact.	Other Sed. Charact.			bd.	jt.	
	109.99		5		4049	CSH								mostly solid	
			9			CB									"
			8	.27 CB/C		CC									"
			10			CB									"
			5	.11 CA/B		CA									"
			6			CB									"
(2B)			12			CC									partly broken
			5	.08 CA/B		CB									"
			3			CA									"
			10	.12 CB/C		CB									"
			2			CC									"
	110.82		0			From CA/70									

DRILL CORE LOG



B C N.	UNIT		THICKNESS		SAMPLE NO.	LITHOLOGY DESCRIPTION					MARKER rec. r.a.d. d.o.b	STR.	FRAC/m		FRACTURE TYPE AND CHARACTERISTICS
	From	To	Apparent	True		Strat. Lithology	Grain Size	Fresh Colour	Bedding Charact.	Other Sed. Charact.			bd.	jt.	
	110.82		2	.09 CB/c	4099	CC								partly broken	
			7			CB									"
			7	CA											
			10	CB										broken	
			5	.24 CB/c		CC									"
(28)			9			CB									partly broken
			6	.13 CA/B		CA									"
			7			CB									"
			1	.16 CB/c		CC									"
			15			CB									"
	111.57		6	CA										broken	

45

DRILL CORE LOG



HOLE No. GM289502

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B C N	UNIT		THICKNESS		SAMPLE NO.	LITHOLOGY DESCRIPTION					MARKER rec. r.a.d. d.o.b	STR.	FRAC/m		FRACTURE TYPE AND CHARACTERISTICS
	From	To	Apparent	True		Strat. Lithology	Grain Size	Fresh Colour	Bedding Charact.	Other Sed. Charact.			bd.	jt.	
	111.57		17		↑ 4049	me									3.49 3.66 (-.17)
		111.77	3			CB									badly broken
			3												"
			12 9		↓ 4050	dksh									"
			6												"
	112.16		30		↓	dkgrsh									partly solid
			11			CD → (occ DKGY SH LAM)									broken
			12 32		↓ 4051	me									0.56 0.61 (-.05)
			11 9			CD grading to CC									broken badly
			12			CB									"
25	112.82		33		↓ 4052	dkgrsh									partly broken
		113.10	4		↓	CSH									"
	113.10		13			CB START D9									"
(32)			2			DK SH									"
			5		↓ 4053	CA									"
	113.41		11.1		↓	CB									broken

DRILL CORE LOG



HOLE No. QM1289502
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B C N	UNIT		THICKNESS		SAMPLE NO.	LITHOLOGY DESCRIPTION					MARKER rec. r.q.d. d.o.b	STR	FRAC/m		FRACTURE TYPE AND CHARACTERISTICS	
	From	To	Apparent	True		Strat. Lithology	Grain Size	Fresh Colour	Bedding Charact.	Other Sed. Charact.			bd	jt		
					4053											
	113.41		5			CC										partly broken
			15			CB										"
			10	.63 CB/c		CC										"
			9			CB										"
	113.53		13			CC										"
			9			dk green										solid
			40			fs included with vfs										"
	114.46		4			dull grey mud & sh. [don't incl?]										← included
	114.46		32		ssh.										solid	
32'			30		dk green grey sh.										"	
↓	115.11		3		CB										broken	

170

DRILL CORE LOG



Quintette Coal Limited

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B C N	UNIT		THICKNESS		SAMPLE NO.	LITHOLOGY DESCRIPTION					MARKER rec. r.q.d. d.o.b	STR.	FRAC/m		FRACTURE TYPE AND CHARACTERISTICS
	From	To	Apparent	True		Strat. Lithology	Grain Size	Fresh Colour	Bedding Charact.	Other Sed. Charact.			bd.	jt.	
↑	115.11		3			dksh									solid
			18			MR									2.47 3.05 (-.58)
			21			dkgrsh									solid
						Box 57									
28°			70			dksh; coal lam. to 1cm									partly broken
*			55			crsh interbedded with vls, comp pb									solid
			86			dksh; coal lam. to 2cm									"
						Box 58									
	118.24		60			crsh									solid
	118.24		13			dkgrsh; coal lam. to 2cm									
				40											3.05 3.05 (0.0)
25	118.64		27			dkgrsh									broken

335

DRILL CORE LOG



Quintet Coal Limited

HOLE No. QA1089502PAGE No. 37 of 77

B C N	UNIT		THICKNESS		SAMPLE NO.	LITHOLOGY DESCRIPTION					MARKER rec. r.g.d. d.o.b	STR.	FRAC/m		FRACTURE TYPE AND CHARACTERISTICS
	From	To	Apparent	True		Strat. Lithology	Grain Size	Fresh Colour	Bedding Charact.	Other Sed. Charact.			bd.	jt.	
	118.64		9			ash								brkzr	
↑	118.73		7	} 30 CA/B	↑ 4054	CB								badly brkn	
			7			CA									"
			16			ash/CB									"
			4			CC									"
(23)			3			dksh									solid
			10		dkgrsh								"		
			3		CA								"		
			1		ash								"		
			10	} 13 CB/C		CB								"	
			3		CC									"	
	119.40		3		dksh									"	

DRILL CORE LOG ^{76.}

B C N	UNIT		THICKNESS		SAMPLE NO.	LITHOLOGY DESCRIPTION					MARKER rec. r.g.d. d.o.b.	STR.	FRAC/m		FRACTURE TYPE AND CHARACTERISTICS	
	From	To	Apparent	True		Strat. Lithology	Grain Size	Fresh Colour	Bedding Charact.	Other Sed. Charact.			bd.	jt.		
	119.40		3		4054	dkgrsh									solid	
			2			CB										"
			24			dksh										"
			4			csb										brkn
			3			dksh										partly brkn
(23)			25			dkgrsh										mostly solid
			1			dksh										"
			6			CB										"
			7			csb										"
			8		CB										"	
	120.29		6	.19 CB/C	CC										"	

89.

DRILL CORE LOG



HOLE No. QMD89502

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B C N	UNIT		THICKNESS		SAMPLE NO.	LITHOLOGY DESCRIPTION					MARKER rec. r.q.d. d.o.b	STR	FRAC/m		FRACTURE TYPE AND CHARACTERISTICS
	From	To	Apparent	True		Strat. Lithology	Grain Size	Fresh Colour	Bedding Charact.	Other Sed. Charact.			bd	jt.	
	120.29		5		4054	CB									mostly solid
			2			CSH									"
23°			63			dkgsh									partly brkn
			6			CSH									brkn
			13		4055	CD									"
			7			sh; carb i/p									"
			4			CSH									badly brkn
	121.33		4			CC									

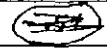
104.

DRILL CORE LOG



HOLE No. QMD89502

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B C N	UNIT		THICKNESS		SAMPLE NO.	LITHOLOGY DESCRIPTION					MARKER rec. r.q.d. d.o.b	STR.	FRAC/m		FRACTURE TYPE AND CHARACTERISTICS
	From	To	Apparent	True		Strat. Lithology	Grain Size	Fresh Colour	Bedding Charact.	Other Sed. Charact.			bd.	jt.	
					4055										2.73 - 12. 3.05 
	121.33		50			dkgrsh dksh									400/121.9 m
(23)				65											
*		121.98	15			dkgrsh dksh loc grdash									solid
			4	5 EB/C		CB									"
			1			CC									
			8	23 CA/B		CA									"
			14			CB									
			5		4056	dkgrsh									partly broken
			4			CC									"
22°			14			dkgrsh									"
		122.62	13			CC									"

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DRILL CORE LOG



Quintette Coal Limited

HOLE No. Q1D8950PAGE No. 34 of 77

B C N	UNIT		THICKNESS		SAMPLE NO.	LITHOLOGY DESCRIPTION					MARKER rec. r.g.d. d.o.b	STR.	FRAC/m		FRACTURE TYPE AND CHARACTERISTICS
	From	To	Apparent	True		Strat. Lithology	Grain Size	Fresh Colour	Bedding Charact.	Other Sed. Charact.			bd	jt.	
	122.62		4		4056	dkgrsd ; silty i/p								solid	
			8			ssh									"
			7			CB									mostly solid
			3			csb									"
			2			CD									"
(22)			18			dksh ; occas. coal lam to 3mm ; loc. grdg to csb									"
	123.04	123.21	17			csb ; <u>sheared</u> ; grdg to dksh									"
			18		dkgrsh ; loc. grdg to dksh ; occas. coal to 3mm									"	
			2		cc									solid	
			7		dksh									"	
	123.53		5		dkgrsh									"	

91
DRILL CORE LOG

B C N	UNIT		THICKNESS		SAMPLE NO.	LITHOLOGY DESCRIPTION					MARKER rec. r.q.d. d.o.b	STR.	FRAC/m		FRACTURE TYPE AND CHARACTERISTICS
	From	To	Apparent	True		Strat. Lithology	Grain Size	Fresh Colour	Bedding Charact.	Other Sed. Charact.			bd.	jt.	
	123.53		4		4056	cc; interbedded CB → csh								solid	
			3			dksh									"
			2			csh									"
			6			CD									"
			7	22 CA/B		CB									"
			9			CA									
			6			CB									"
(22)			3			CD									"
			2			dksh									"
							Box G1								
			1			CB									solid
			9		dkgrsh									"	
			11		cc; orris csh lam thuc									"	
			7		CD									"	
	124.23		2		CB									"	
↓	124.23		26		4057	csh								mostly solid	
	124.61		12		109.	dksh					410/124.97m				

DRILL CORE LOG



HOLE No. AMD89502

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B C N	UNIT		THICKNESS		SAMPLE NO.	LITHOLOGY DESCRIPTION					MARKER rec. r.q.d. d.o.b	STR	FRAC/m		FRACTURE TYPE AND CHARACTERISTICS	
	From	To	Apparent	True		Strat. Lithology	Grain Size	Fresh Colour	Bedding Charact.	Other Sed. Charact.			bd.	jt.		
	124.61		1		4057	cb										
			5			dkgn. sh. with fine sand										
			1			cc										
			6			cb										
			5			ash										
			2													
			5			cc										
(18)			3			dkgn. sh.										
			1			ca										
			15			dash										
			12			cc										
	125.34	128.14				} 26 CB/C	cb									

DRILL CORE LOG ⁷³

B C N	UNIT		THICKNESS		SAMPLE NO.	LITHOLOGY DESCRIPTION					MARKER rec. r.a.d. d.o.b	STR.	FRAC/m		FRACTURE TYPE AND CHARACTERISTICS
	From	To	Apparent	True		Strat. Lithology	Grain Size	Fresh Colour	Bedding Charact.	Other Sed. Charact.			bd.	jt.	
	125.34	125.61	27		4057	fs ; carb pf; calc-filled frags								solid	
	125.61		16		4058	CB								partly brkn	
			2	14		dksh									"
(18)			12			dksh gradg to CD									
			5			CD									"
					4059										
			33			CC									mostly solid
			16			CB									"
			11	62 CA/B		CA									"
			15			CB									partly brkn
23°			20		CB									solid	
	126.94		3		dksh									pulverized	

160

V

Box 62

DRILL CORE LOG



HOLE No. QMD89502

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B C N.	UNIT		THICKNESS		SAMPLE NO.	LITHOLOGY DESCRIPTION					MARKER rec. r.a.d. d.o.b	STR.	FRAC/m		FRACTURE TYPE AND CHARACTERISTICS
	From	To	Apparent	True		Strat. Lithology	Grain Size	Fresh Colour	Bedding Charact.	Other Sed. Charact.			bd	jt.	
	126.94		7	34 CB/c	4059	CC									solid
			27			CB									
			4			CA									pulv.
			4	6 CB/c		CC									"
			2			CB; abund calc thur									
			5			ms; abund spherical grains thur									solid
			4			CB									"
			(4)			(mc)					420/128.02m				2.75 3.05
(23)			36	40 CB/c		CB; occas coal lam; vert. calc-filled frac									solid
			4			CC									
			5	12 CA/B		CA									"
			7			CB									
			6			osh; silty i/p									"
			6			CB									"
				27 CA/B											
	128.29		14		CB										mostly solid

131

DRILL CORE LOG



Quintette Coal Limited

HOLE No. QMD 89502

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B C N	UNIT		THICKNESS		SAMPLE NO.	LITHOLOGY DESCRIPTION					MARKER rec. r.q.d. d.o.b	STR.	FRAC/m		FRACTURE TYPE AND CHARACTERISTICS		
	From	To	Apparent	True		Strat. Lithology	Grain Size	Fresh Colour	Bedding Charact.	Other Sed. Charact.			bd.	jt.			
	128.29		7		4059	CA											
			1			CC											
			4			CA											
			1			CC											
			3			CA											
	128.45		5			DKSH											
			11			dkgish coal lam to 0.5cm										solid	
(23)			2			CC											
			10			dksh											
	128.78		5			DKGSH											
			3.4		CC												
			1.4		dksh csh												
			8		CB												
	128.97		3		CC												

68

DRILL CORE LOG


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B C N.	UNIT		THICKNESS		SAMPLE NO.	LITHOLOGY DESCRIPTION					MARKER rec. r.q.d. d.o.b.	STR.	FRAC/m		FRACTURE TYPE AND CHARACTERISTICS	
	From	To	Apparent	True		Strat. Lithology	Grain Size	Fresh Colour	Bedding Charact.	Other Sed. Charact.			bd.	jt.		
	128.97		7		4059	CA									modified	
			2			dkgrist										
			5			CD										puls
			10	} 1A		CB										"
			4			CB										
			4			CSH										
			14			dkgrist										
(23)			2			CA										
			3	} 1B CA/B		CB										
			8			CA										
			5			CB										spiral
			2			CD										"
	129.48		15			CSH										"

DRILL CORE LOG



HOLE No. GMD89502

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B C N	UNIT		THICKNESS		SAMPLE NO.	LITHOLOGY DESCRIPTION					MARKER rec. r.q.d. d.o.b.	STR.	FRAC/m		FRACTURE TYPE AND CHARACTERISTICS
	From	To	Apparent	True		Strat. Lithology	Grain Size	Fresh Colour	Bedding Charact.	Other Sed. Charact.			bd.	it.	
	129.78		2		4059	CA								solid	
			2			CC									"
			10			CA									partly broken
			15			dk grey sh									solid
			17			CA									partly broken
(23)			2			CC									solid
				12 CB/C						Box CA					
			10			CB									solid
			2			CD									"
*	130.46		8			CB	Red	Ezh.							"
25°	130.61		15		sh; friable									"	
										430/131.05 m				2.83 3.05 (-.22)	

83

DRILL CORE LOG



B C N	UNIT		THICKNESS		SAMPLE NO.	LITHOLOGY DESCRIPTION					MARKER rec r.q.d. d.o.b.	STR.	FRAC/m		FRACTURE TYPE AND CHARACTERISTICS
	From	To	Apparent	True		Strat. Lithology	Grain Size	Fresh Colour	Bedding Charact.	Other Sed. Charact.			bd.	jt.	
	130.61	132.20	159		F3L	ssh; friable; solid to brittle									partly broken
						Box 65									
	132.20		156			vfs									solid
*											440/139.1				3.20 3.05 (1.15)
	133.75		26			cc									broken
			19			dkgr sh									partly broken
(19)			(19)			mc									
	134.39		4			cc									broken
						Box 66									
			92			sh; friable									solid
			24			fs									"
			46			ssh									"
12°															
	136.52		51			fs									

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DRILL CORE LOG



Quintette Coal Limited

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B C N	UNIT		THICKNESS		SAMPLE NO.	LITHOLOGY DESCRIPTION					MARKER rec. r.q.d. d.o.b	STR.	FRAC/m		FRACTURE TYPE AND CHARACTERISTICS	
	From	To	Apparent	True		Strat. Lithology	Grain Size	Fresh Colour	Bedding Charact.	Other Sed. Charact.			bd.	jt.		
									Box 67							
(12)	136.52		16		B2	MS									solid	
			1													2.78 3.05 (-.27)
																450/137 (6.4)
			06				MS									"
																"
			45			crsh gidy to dkish									"	
			4			CSH									b/c	
	137.98		6		4060	CB									"	
			4			(MC)										"
			4			CA										mostly solid
																"
			5				CC									"
			2			CA									"	
			1	25 CA/B		CB									"	
	138.27		22			CA; pyr. crystals									"	

DRILL CORE LOG



HOLE No. QMD99502
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B C N	UNIT		THICKNESS		SAMPLE NO.	LITHOLOGY DESCRIPTION					MARKER rec. r.q.d. d.o.b.	STR.	FRAC/m		FRACTURE TYPE AND CHARACTERISTICS
	From	To	Apparent	True		Strat. Lithology	Grain Size	Fresh Colour	Bedding Charact.	Other Sed. Charact.			bd.	jt.	
	138.27		4		4060	CC								solid	
			2			CSH									"
			7			CD									"
			2			CSH									"
(10)			12	} 23 CB/C		CB									"
*			11			CC									
															"
															"
															"
															"
	138.65		24											solid	
			15	} 20 CB/C	4061	CB								"	
(16)			5			CC grdg. to CB; interlam. clean coal & sh.									"
			9	CSH											"
	139.20		2	CA											"

93
DRILL CORE LOG

B C N	UNIT		THICKNESS		SAMPLE NO.	LITHOLOGY DESCRIPTION					MARKER rec. r.q.d. d.o.b	STR	FRAC/m		FRACTURE TYPE AND CHARACTERISTICS	
	From	To	Apparent	True		Strat. Lithology	Grain Size	Fresh Colour	Bedding Charact.	Other Sed. Charact.			bd.	jt.		
	139.20		2		4061	cd									solid	
			2			DKSH.										
			6			cc										
	139.35		5			cd										
			17			dkgish										
			16			vfs										
				46												
22°	139.98		30			ms above										
	139.98		64			ms interbedded with vfs; calcified thin parallel to bdg										
			0			ssh										
			5			ms									solid	
	141.32		57			ssh									solid	

160°/140° 20m

2.71
3.05 - .39

Box 59

B C N	UNIT		THICKNESS		SAMPLE NO.	LITHOLOGY DESCRIPTION					MARKER rec. r.g.d. d.o.b.	STR.	FRAC/m		FRACTURE TYPE AND CHARACTERISTICS
	From	To	Apparent	True		Strat. Lithology	Grain Size	Fresh Colour	Bedding Charact.	Other Sed. Charact.			bd.	jt.	
		141.45	8	18/13		dkgrsh									brkn
		141.45	8			ash									brkn
			5			MC									
			12			CA									partly solid
(16)			8	33 CA/B		CB									"
			7		4062	CA									"
			6			CB									"
		141.95	4			CC (Bottom of Ea)									"
			84			cgl; clasts to ~0.4cm									mostly solid
				151											
						Box 70									
		143.46	67			cgl; clasts to 1cm									3.10 2.05 (+.05) solid
10		143.46	16			v. cs									"
		144.95	153			cgl; clasts to 1cm; coarsening down									"

353

DRILL CORE LOG



Quintette Coal Limited

HOLE No. 011089-02

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B C N.	UNIT		THICKNESS		SAMPLE NO.	LITHOLOGY DESCRIPTION					MARKER rec. r.g.d. d.o.b	STR.	FRAC/m		FRACTURE TYPE AND CHARACTERISTICS
	From	To	Apparent	True		Strat. Lithology	Grain Size	Fresh Colour	Bedding Charact.	Other Sed. Charact.			bd.	jt.	
	144.85		91	5.19											
			105												
			41												
(10)			206	2.53											
			47												
			10												
(10)			7												
			17												
	151.20		111												

Box 71

cgl; clasts to 1cm

480/146.30

2.97
3.05 (-.08)

cgl; clasts to 4cm

Box 72

(me)

190/149.50

1.05
3.05 (-2.00)

cgl; clasts to 3cm

Box 73

cgl; clasts to 2cm

Linear at bottom

ce

solid

cgl

"

ce

"

cgl

"

B C N.	UNIT		THICKNESS		SAMPLE NO.	LITHOLOGY DESCRIPTION					MARKER rec. r.a.d. d.o.b	STR.	FRAC/m		FRACTURE TYPE AND CHARACTERISTICS
	From	To	Apparent	True		Strat. Lithology	Grain Size	Fresh Colour	Bedding Charact.	Other Sed. Charact.			bd.	jt.	
	151.20		9						Box 74						
			5			cs									
			6			cgl			clasts to 1cm						
			7			cgl									
10			19			cs									partly bitu
			43			cgl			clasts to 1.5cm						solid
				1.06						100/150-43					$\frac{4.95}{3.05}$ (71.90)
			50						as above						partly bitu
			15			cgl			clasts 0.75cm						solid
			9			cs			clasts to 1cm						"
	153.02	B				cgl			clasts to 1cm						bitu

DRILL CORE LOG



HOLE No. 02118910
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B C N	UNIT		THICKNESS		SAMPLE NO.	LITHOLOGY DESCRIPTION					MARKER rec. r.q.d. d.o.b.	STR.	FRAC/m		FRACTURE TYPE AND CHARACTERISTICS	
	From	To	Apparent	True		Strat. Lithology	Grain Size	Fresh Colour	Bedding Charact.	Other Sed. Charact.			bd.	jt.		
↑	153.02		13			dksh; calc pt									vert. bedn	
																Box 75
(20)			49			dksh; calc pt										solid
(35)	20' - 50' (100.0)		139			crsh; calc filled fracs parallel to bed										solid
																2.86 3.05 (-.19)
(50)			14			as above										
																Box 76
60'			18			crsh; calc-filled fracs parallel to bed										solid
						CB orial										solid
↓																
(50)			158			egl. chert to ~1.0cm (sheared; looking calc-filled fracs; no specific orient ⁿ ; possible fault).										brn
↓																
(45)	157.10		12			CS										solid

FAULT
Zone

B C N	UNIT		THICKNESS		SAMPLE NO.	LITHOLOGY DESCRIPTION					MARKER rec. r.q.d. d.o.b	STR.	FRAC/m		FRACTURE TYPE AND CHARACTERISTICS	
	From	To	Apparent	True		Strat. Lithology	Grain Size	Fresh Colour	Bedding Charact.	Other Sed. Charact.			bd.	jt.		
	157.10		3	.65											solid	
			62													solid
			27													"
			17													"
(40)			5													"
																"
																"
			51													solid
			19													"
																"
			5													"
	159.02		4													"
																"
																"
																"
																"
																"

Box 77

EQ/1585 ml

$\frac{3.21}{3.05}$ (4.16)

Box 78

B C N	UNIT		THICKNESS		SAMPLE NO.	LITHOLOGY DESCRIPTION					MARKER rec. r.q.d. d.o.b	STR.	FRAC/m		FRACTURE TYPE AND CHARACTERISTICS
	From	To	Apparent	True		Strat. Lithology	Grain Size	Fresh Colour	Bedding Charact.	Other Sed. Charact.			bd.	jt.	
	159.02		9	.13		cs								solid	
*			25			egl, clasts to 1.5 cm								"	
11°			65			cs								"	
			8			egl								"	
			36			cs								"	
			7			egl, clasts to 1cm								fri	
			43			cs, gldg to egl (clasts to 0.5 cm)								"	
				.64		Box 79									
			21			cs								partly broken	
			10			egl, clasts to 1cm								medium broken	
				.54											
	161.70		44			egl, clasts to 1cm								"	

T possible fault? ↓

580/161.70

3.02
3.05 (-.03)

DRILL CORE LOG



HOLE No. QMD89502

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B C N.	UNIT		THICKNESS		SAMPLE NO.	LITHOLOGY DESCRIPTION					MARKER rec. r.q.d. d.o.b.	STR.	FRAC/m		FRACTURE TYPE AND CHARACTERISTICS
	From	To	Apparent	True		Strat. Lithology	Grain Size	Fresh Colour	Bedding Charact.	Other Sed. Charact.			bd.	it.	
	161.70		9			cs								badly broken	
(11)			74	} 147		cof. clasts to 2cm								mostly broken	
							Box 80								
			73				cof. clasts to 15cm								solid
↓			20			cs								"	
			7			dkgrsh								"	
	163.53		6			esh								partly broken	
			4			dksh								solid	
(17)			3			esh								"	
			2			dkgrsh								"	
			10			cc overall								mineralized	
	163.85		7			esh								badly broken	

DRILL CORE LOG



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B C N.	UNIT		THICKNESS		SAMPLE NO.	LITHOLOGY DESCRIPTION					MARKER rec. r.q.d d.o.b	STR.	FRAC/m		FRACTURE TYPE AND CHARACTERISTICS	
	From	To	Apparent	True		Strat. Lithology	Grain Size	Fresh Colour	Bedding Charact.	Other Sed. Charact.			bd.	jt.		
17°	163.85		38			clsh									partly bit	
																2.97 3.05 (-0.08)
			30			ssh										
18°			151			ssh; coal lam. to 0.4 cm										solid
			63			sh; friable										partly bit
																partly bit
			68			sh; friable										semi-solid
			37			as above										
			55			ssh										solid
15°	168.78		51			fs										"

DRILL CORE LOG



HOLE No. QNT 1975

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B C N	UNIT		THICKNESS		SAMPLE NO.	LITHOLOGY DESCRIPTION					MARKER rec. r.q.d. d.o.b	STR.	FRAC/m		FRACTURE TYPE AND CHARACTERISTICS
	From	To	Apparent	True		Strat. Lithology	Grain Size	Fresh Colour	Bedding Charact.	Other Sed. Charact.			bd.	jt.	
						Box 83									
14°	168.78		104			fs; compaction features (soft sed. deformation)								solid	
			31			ms								"	
			20			cs								"	
			11			ms								"	
			20			cs; calc-filled frac. perpend. to bdg.								"	
↓ ↑			3			fs								"	
						Box 89									
19°			85			ms interbedded with fs								solid	
	171.86		34			cs								"	

DRILL CORE LOG



HOLE No. QMD89502

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B C N	UNIT		THICKNESS		SAMPLE NO.	LITHOLOGY DESCRIPTION					MARKER rec. r.g.d. d.o.b.	STR.	FRAC/m		FRACTURE TYPE AND CHARACTERISTICS
	From	To	Apparent	True		Strat. Lithology	Grain Size	Fresh Colour	Bedding Charact.	Other Sed. Charact.			bd.	jt.	
	171.86		84												solid
(19)															
			7												solid
			4												"
12			64												mostly solid
			45												solid
			15												"
			30												"
			16												partly bet u
	174.53		2												mostly solid

570/173.74m(?)

3.01
3.05 (-.04)

B C N	UNIT		THICKNESS		SAMPLE NO.	LITHOLOGY DESCRIPTION					MARKER rec. r.q.d. d.o.b.	STR.	FRAC/m		FRACTURE TYPE AND CHARACTERISTICS
	From	To	Apparent	True		Strat. Lithology	Grain Size	Fresh Colour	Bedding Charact.	Other Sed. Charact.			bd.	jt.	
*	174.53		21			dksh								solid	
									1						
									Box 86						
		174.99	25				vfs								"
16°	174.99	175.87	88			ms; interbedded with fs; coal lam. to 2mm								"	
↓	↑	175.87	2		4063	cc								"	
			39				ca								"
(20)			2	.51 CAIB			cb								"
		176.40	10				ca								"

DRILL CORE LOG



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B C N	UNIT		THICKNESS		SAMPLE NO.	LITHOLOGY DESCRIPTION					MARKER rec. r.q.d. d.o.b.	STR.	FRAC/m		FRACTURE TYPE AND CHARACTERISTICS
	From	To	Apparent	True		Strat. Lithology	Grain Size	Fresh Colour	Bedding Charact.	Other Sed. Charact.			bd.	jt.	
	184.02		48			fs interbedded with vfs								solid	
			47			ssh								"	
						Box 91									
*			49			ssh								solid	
10			158			ms; carb pf lam's								"	
*						Box 92					616/127.76 m		3.02 3.30	(-18)	
0			151			ms								solid	
*						Box 93					620/128.98 m		1.51 1.22	(+29)	
			57	5.12		ms								partly brkn	
						Box 93									
	189.93		81			ms								solid	

DRILL CORE LOG



HOLE No. QMD89502
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B C N	UNIT		THICKNESS		SAMPLE NO.	LITHOLOGY DESCRIPTION					MARKER rec. r.g.d. d.o.b	STR.	FRAC/m		FRACTURE TYPE AND CHARACTERISTICS
	From	To	Apparent	True		Strat. Lithology	Grain Size	Fresh Colour	Bedding Charact.	Other Sed. Charact.			bd	jt.	
	189.93		23			ms; rip-up clasts to 2 cal								solid	
			7			sh								broken	
			32			sch								solid	
0°			38			fs								"	
			20			ssh									
								Box 94							
			35	.66		ssh								solid	
										630/192.0/12				2.93 3.05 (-.12)	
*			11			as above								"	
(13)			25			ms								"	
			90			f interbedded with vlc								partly broken	
↓	192.80		6			sch; calc; parallel bedg								solid	

B C N	UNIT		THICKNESS		SAMPLE NO.	LITHOLOGY DESCRIPTION					MARKER rec. r.q.d. d.o.b	STR.	FRAC/m		FRACTURE TYPE AND CHARACTERISTICS
	From	To	Apparent	True		Strat. Lithology	Grain Size	Fresh Colour	Bedding Charact.	Other Sed. Charact.			bd.	jt.	
↑	192.80		9			vfs								solid	
18°			18			ms. interbed with fs								"	
*			7			vfs								"	
				.49				Box 95							
10°			42			vfs								solid	
			16			fs								"	
			89			vfs; part stains; ssd features								"	
				1.44											
			55			as above								solid	
*								Box 96							
(3)			9			fs								solid	
	195.53		28			vfs								"	

B C N.	UNIT		THICKNESS		SAMPLE NO.	LITHOLOGY DESCRIPTION					MARKER rec. r.g.d. d.o.b	STR	FRAC/m		FRACTURE TYPE AND CHARACTERISTICS
	From	To	Apparent	True		Strat. Lithology	Grain Size	Fresh Colour	Bedding Charact.	Other Sed. Charact.			bd	jt.	
↑	192.80		9			vfs								solid	
13°			18			ms. interbedded with fs								"	
↓			7	} .49		vfs								"	
									Box 95						
10°			12	} .49		vfs								solid	
			16				fs								
			59	} 1.44		vfs; unit stains; ssd features								"	
											640/195.0/m			3.13 3.05 (7.08)	
			55	} 1.44		as above								solid	
↓									Box 96						
(3)			7			fs								solid	
	195.53		28			vfs								"	

DRILL CORE LOG

 Quintette Coal Limited

HOLE No. QM289502

PAGE No. 61 of 77

B C N.	UNIT		THICKNESS		SAMPLE NO.	LITHOLOGY DESCRIPTION					MARKER rec. r.q.d. d.o.b	STR.	FRAC/m		FRACTURE TYPE AND CHARACTERISTICS
	From	To	Apparent	True		Strat. Lithology	Grain Size	Fresh Colour	Bedding Charact.	Other Sed. Charact.			bd.	jt.	
	3°	195.53	118			R interbedded with vfs									solid
			57			vfs									"
						Box 97									
			49			ssh; friable									solid
			16			as above									semi-solid
			30			crsh									solid
	2°	198.82	60			ssh									"
		198.82	14			dksh									"
			14			dkgrsh									"
		199.33	13			dksh									"
		199.33	4			CB									"
(8)					4064	Box 98									

DRILL CORE LOG



HOLE No. QMD89502

PAGE No. 62 of 77

B C N	UNIT		THICKNESS		SAMPLE NO.	LITHOLOGY DESCRIPTION					MARKER rec. r.q.d. d.o.b	STR.	FRAC/m		FRACTURE TYPE AND CHARACTERISTICS
	From	To	Apparent	True		Strat. Lithology	Grain Size	Fresh Colour	Bedding Charact.	Other Sed. Charact.			bd	jt	
	199.37		8	0.12 CB/C	4064	CC								solid	
			3			CA									"
8			3			CC									"
			1			CA									"
			5			CB									"
			1	0.3 CA/B		CA									"
			2			CB									"
			18			CA									partly broken
			3			CB									"
			14			CC									"
			2			CA									"
	100.03		6	0.09 CA/B		CB									"

DRILL CORE LOG



HOLE No. QND29532

PAGE No. 63 of 77

B C N.	UNIT		THICKNESS		SAMPLE NO.	LITHOLOGY DESCRIPTION					MARKER rec. r.q.d. d.o.b	STR.	FRAC/m		FRACTURE TYPE AND CHARACTERISTICS
	From	To	Apparent	True		Strat. Lithology	Grain Size	Fresh Colour	Bedding Charact.	Other Sed. Charact.			bd.	jt.	
	200-03		1		4064	CA								solid	
			3			CC									"
			1			CA									"
			4			CB									"
			4	20 CA/b		CA									"
			11			CB									"
(b)			9			CA									"
			3			CC									"
			9			CA									"
			2			CC									"
			3			CA									"
	200-56		3			CB									"

DRILL CORE LOG



B C N	UNIT		THICKNESS		SAMPLE NO.	LITHOLOGY DESCRIPTION					MARKER rec. r.q.d. d.o.b.	STR.	FRAC/m		FRACTURE TYPE AND CHARACTERISTICS	
	From	To	Apparent	True		Strat. Lithology	Grain Size	Fresh Colour	Bedding Charact.	Other Sed. Charact.			bd.	jt.		
	200.56		2	.14 CA/B	406A	CA									solid	
			4			CB										
			2			CA										
			1			CC										
			7	CA												
			2	CC											solid	
(8)			3	CA												
			5	.13 CA/B		CB										
			5		CA											
			10	CSH												
			5	CB												
	201.15		8	.26 CA/B												
					CB										broken	

201.15
 201.15
 - .36
 Note (measure) 39cm between this
 3.05
 3.05 (0.0) & previous
 marker
 201.17

DRILL CORE LOG



B C N	UNIT		THICKNESS		SAMPLE NO.	LITHOLOGY DESCRIPTION					MARKER rec. r.q.d. d.o.b	STR.	FRAC/m		FRACTURE TYPE AND CHARACTERISTICS	
	From	To	Apparent	True		Strat. Lithology	Grain Size	Fresh Colour	Bedding Charact.	Other Sed. Charact.			bd.	jt.		
	201.10		12		4064	CB									brakes	
			1			CA										solid
			4			CC										"
			1			CA										"
			5			CD										
(B)			4	.10 CA/B		CA									solid	
			6			CB; white powder on coal surface									"	
			2			CC									"	
			1	.11 CB/c		CB									"	
			0			CC; white powder on coal surface									"	
	201.58		4			CA									"	

Box 99

4064

DRILL CORE LOG

 Quintette Coal Limited

HOLE No. QMD 89-102

PAGE No. 66 of 77

B C N	UNIT		THICKNESS		SAMPLE NO.	LITHOLOGY DESCRIPTION					MARKER rec r.q.d. d.o.b	STR.	FRAC/m		FRACTURE TYPE AND CHARACTERISTICS	
	From	To	Apparent	True		Strat. Lithology	Grain Size	Fresh Colour	Bedding Charact.	Other Sed. Charact.			bd.	it.		
	201.58		5	} .26 CA/B	4064	CB								solid		
			2			CA									"	
			6			CB									"	
			6			CA									partly broken	
			3			CB									solid	
			4			CC									"	
(B)			7			CA									"	
			3			} .10 CA/B	CB									"
			6				CA									"
			1				CC									"
	202.03		8	CA										"		

DRILL CORE LOG



HOLE No. DMDB950

PAGE No. 67 of 77

B C N.	UNIT		THICKNESS		SAMPLE NO.	LITHOLOGY DESCRIPTION					MARKER rec. r. q. d. d. o. b.	STR.	FRAC/m		FRACTURE TYPE AND CHARACTERISTICS
	From	To	Apparent	True		Strat. Lithology	Grain Size	Fresh Colour	Bedding Charact.	Other Sed. Charact.			bd.	jt.	
	202.03		9	.17	4064	CA								solid.	
			5			CB									"
			3	.11 CB/C		CC									"
			3			CB									"
			12			CA									"
			2			CC									"
(8)			3			CA									"
			3			CB									"
			1			CA									"
			12	.43 CA/B		CB									"
			3			CA									partly bedn
	202.60		7			CB									"

DRILL CORE LOG

 Quintette Coal Limited

HOLE No. QALD 292 02

PAGE No. 68 of 77

B C N	UNIT		THICKNESS		SAMPLE NO.	LITHOLOGY DESCRIPTION					MARKER rec. r.g.d. d.o.b	STR.	FRAC/m		FRACTURE TYPE AND CHARACTERISTICS
	From	To	Apparent	True		Strat. Lithology	Grain Size	Fresh Colour	Bedding Charact.	Other Sed. Charact.			bd.	jt.	
	202.66		10		4064	CA								partly bitm.	
			4			CB									solid
			1			CC									"
			10			CA									"
			13			CC									"
			2			CA									solid
(B)			12			CB									"
			3	.25 CB/C		CC									"
			7			CB									"
			3			CC									"
			10			CA									"
	203.49		8			CB									partly bitm.

DRILL CORE LOG



HOLE No. QMD89502

PAGE No. 69 of 77

B C N	UNIT		THICKNESS		SAMPLE NO.	LITHOLOGY DESCRIPTION					MARKER rec. r.q.d. d.o.b	STR.	FRAC/m		FRACTURE TYPE AND CHARACTERISTICS
	From	To	Apparent	True		Strat. Lithology	Grain Size	Fresh Colour	Bedding Charact.	Other Sed. Charact.			bd.	jt.	
	203.49		3	.36 CA/B	4064	CA									solid
			15			CA									
			2	CC											"
			12	CA											"
(8)			6	.30 CA/B		CB									solid
			12			CA									
			1	CC											partly bitu
			8	CA											"
			3	CC											mostly solid
	204.21		10	CB											

Box 100

670/204.21m

2.90
3.05 (-.15)

DRILL CORE LOG



HOLE No. AMDP9502

PAGE No. 70 of 77

B C N	UNIT		THICKNESS		SAMPLE NO.	LITHOLOGY DESCRIPTION					MARKER rec. r.a.d. d.o.b	STR	FRAC/m		FRACTURE TYPE AND CHARACTERISTICS	
	From	To	Apparent	True		Strat. Lithology	Grain Size	Fresh Colour	Bedding Charact.	Other Sed. Charact.			bd.	jt.		
	204.21		4	.17 CBIC	4064	CC									mostly solid	
			8			CA										brkn
			4	.07 CBIC		CB										brkn
			3			CC										"
(B)			3			CA										"
			3			CC										"
			8			CA										"
	*		(6)			ms, coal cuttings mixed										"
	*		(23)			MC										"
			7			CA										badly brkn
			4			CC										solid
			2			CSH										"
	205.08				CA										"	

appears anomalous slightly coarse
log not indicative of Sandstone
(not in sample)

not incl.
in tally

DRILL CORE LOG



* sampled separately - not analysed

B C N.	UNIT		THICKNESS		SAMPLE NO.	LITHOLOGY DESCRIPTION					MARKER rec. r.q.d. d.o.b	STR	FRAC/m		FRACTURE TYPE AND CHARACTERISTICS
	From	To	Apparent	True		Strat. Lithology	Grain Size	Fresh Colour	Bedding Charact.	Other Sed. Charact.			bd.	jt.	
	205.08		7		4064	CA								solid	
			3	.52 CA/B		CB									
			14			CA									
			10			CB									solid
(B)			3			CC									"
			10			CA									"
				.26						Box 101					
	205.71		16			CA									solid
			11			dksh									partly broken
			3			CB									broken
(15)			2		4065	CA									
	205.91		4		CB										

DRILL CORE LOG



HOLE No. 011/29/02

PAGE No. 72 of 77

B C N	UNIT		THICKNESS		SAMPLE NO.	LITHOLOGY DESCRIPTION					MARKER rec. r.g.d. d.o.b	STR.	FRAC/m		FRACTURE TYPE AND CHARACTERISTICS	
	From	To	Apparent	True		Strat. Lithology	Grain Size	Fresh Colour	Bedding Charact.	Other Sed. Charact.			bd.	jt.		
	205.8F		7	.16 CA/B	4065	CA								brkn		
			3	.17 CB/C		CC									"	
			7			CB										"
			1			CC										"
			6	.14 CA/B		CB									"	
			7			CA										"
(15)			7			CB										"
			2	.14 CA/B		CC									mostly solid	
			5			CA										"
			11			CB										"
			2	.14 CA/B		CA									braken	
	206.5H		5			CB										

DRILL CORE LOG



HOLE No. QMD89502
PAGE No. 73 of 77

B C N	UNIT		THICKNESS		SAMPLE NO.	LITHOLOGY DESCRIPTION					MARKER rec. r.q.d. d.o.b	STR.	FRAC/m		FRACTURE TYPE AND CHARACTERISTICS	
	From	To	Apparent	True		Strat. Lithology	Grain Size	Fresh Colour	Bedding Charact.	Other Sed. Charact.			bd	jt.		
	206.54		1	.50 CA/B	4065	CA									dis.	
			3			CB										"
			14			CA										"
			9			CB										
			(10) 4			MC										
			10	CSH											"	
			13	CA											"	
(15)			(26)	MC							650/20726			2.53 3.05	(-.52)	
			6	.11 CA/B		CB overall										partly broken
			5			CA										partly broken
			2			CC										
			9	.11 CA/B		CA										
	207.31		2			CB										"

DRILL CORE LOG



HOLE No. QMDB9502

PAGE No. 74 of 77

B C N	UNIT		THICKNESS		SAMPLE NO.	LITHOLOGY DESCRIPTION					MARKER rec. r.q.d. d.o.b	STR	FRAC/m		FRACTURE TYPE AND CHARACTERISTICS	
	From	To	Apparent	True		Strat. Lithology	Grain Size	Fresh Colour	Bedding Charact.	Other Sed. Charact.			bd.	jt.		
	207.12		21		4065											
			(19)			drilling mud and coal (overall) mixed MC										badly broken to pulverized
			1			ssh										brkn
			3			CA										brkn
						Box 102										
			2			CA										mostly solid
(15)			4	.29 CAVB		CB										"
			6			CA										"
			8			CB										"
			10			CC										"
			6			CA										badly broken
	208.07		8			CC										

DRILL CORE LOG

 Quintette Coal Limited

HOLE No. QMD 89-02

PAGE No. 75 of 77

B C N	UNIT		THICKNESS		SAMPLE NO.	LITHOLOGY DESCRIPTION					MARKER rec. r.q.d. d.o.b	STR.	FRAC/m		FRACTURE TYPE AND CHARACTERISTICS
	From	To	Apparent	True		Strat. Lithology	Grain Size	Fresh Colour	Bedding Charact.	Other Sed. Charact.			bd	jt.	
	208.07		2		4065	CA								hardly broken	
			3			CC									"
			9			CB									broken
			10	33 CA/B		CA									partly broken
*	208.51		14			CB									"
20'	208.51	209.66	115			ms.									solid
	209.66		44			ms.									solid
				100											
			56		ms.									"	
*			2		CA									broken	
15'	211.62		94	235	ms.									partly broken	

DRILL CORE LOG



HOLE No. QMD89502
PAGE No. 76 of 77

QMD 89503 DRILL CORE LOG

Logged: T. Wall, G. Cane, R. Kostiuik, M. Gant, N. Hori

Sampled: August 1989

Samples: 4066 - 4087

Core Boxes: 1 - 95

Pages: 1 - 75

July 20, 19

B C N	UNIT		THICKNESS		SAMPLE NO.	LITHOLOGY DESCRIPTION					MARKER rec r.a.d. d.o.b (m)	STR	FRAC/m		FRACTURE TYPE AND CHARACTERISTICS
	From	To	Apparent	True		Strat. Lithology	Grain Size	Fresh Colour	Bedding Charact.	Other Sed. Charact.			bd	jt.	
	0	3.05 m				Box 1									
						missing core (overburden) cased at 3.05 m.									
											3.05				
↑			1.69			CRSH intbd SSH & VFS occ. iron stain.								badly broken	
						Box 2									
65°			0.76	2.89		A/A								badly broken.	
											5.49			2.45 2.44 (1.01)	
↓			0.44			A/A.								badly broken	
68°			0.41			VFS intbd CRSH iron stain bioturb. soft sed. def. at base. in sand.								mostly solid.	
↓						Box 3									
			1.84			A/A								partly broken	
						Box 4									
65°	9.00		0.81	2.65		A/A								broken	

B C N	UNIT		THICKNESS		SAMPLE NO.	LITHOLOGY DESCRIPTION					MARKER rec r, a, d d o b	STR	FRAC/m		FRACTURE TYPE AND CHARACTERISTICS			
	From	To	Apparent	True		Strat. Lithology	Grain Size	Fresh Colour	Bedding Charact.	Other Sed Charact.			bd	jt.				
↑																		
	9.00		0.25			A/A (vfs)												partly broken
			0.95	91		CRSH grade to SSH grey · very friable · iron stain along frac.												badly broken
						BOX 5												
Good 68°			0.87	83		FS intbd VFS & SSH carb SSH iron stain throughout. calc. fl. frac.												partly broken
			0.04			[clay layer or fault gouge (S/E) ?]												badly broken - pulv.
			0.86			FS massive Fe-stain (massive) calc. fl. frac. v. hard.												solid.
						BOX 6												
			0.16	1.22		A/A												solid
			0.20			A/A Fe-stain thruout highly frac. calc. fl. frac.												solid.
↓	12.30		0.05			[clay layer & drill mud]												badly broken - pulv.

DRILL CORE LOG



HOLE No. QMD89503

PAGE No. 2 of 75

B C N	UNIT		THICKNESS		SAMPLE NO.	LITHOLOGY DESCRIPTION					MARKER rec r.q.d d.o.b	STR	FRAC/m		FRACTURE TYPE AND CHARACTERISTICS
	From	To	Apparent (m)	True		Strat. Lithology	Grain Size	Fresh Colour	Bedding Charact.	Other Sed Charact.			bd	it.	
↑ 90°	12.30		1.23			VFS	intbd CRSH	dk grey shale	bioturb.						partly broken
						Box 7									
			0.15			[Fault gouge - breccia ?]	CRSH	s/s calc.	fl. frac.						badly broken
			0.06			FS	Fe-stain	v hard	s/s						partly broken
			0.56			VFS	intbd CRSH		bioturb.						partly broken
			0.66			VFS	grading to FS	intbd FS	bioturb.						mostly solid
															2.91 3.02 (-.14)
			0.39			A/A									solid
				3.72		Box 8									
90°			1.58			A/A		carb. pl. mins.							mostly solid (top) partly broken (base)
	17.32		0.39			VFS		carb. pl. mins.	Fe-stain						broken

B C N	UNIT		THICKNESS		SAMPLE NO.	LITHOLOGY DESCRIPTION					MARKER rec r.q.d. d.o.b	STR	FRAC/m		FRACTURE TYPE AND CHARACTERISTICS
	From	To	Apparent	True		Strat Lithology	Grain Size	Fresh Colour	Bedding Charact.	Other Sed. Charact.			bd	jt.	
(90)															
	17.32		0.14												
			1.62			ES	minor S/S throughout	carb. lamellae. bioturb.	Thin calc. fl. frac throughout						
			1.76												
73°			1.78	3.38		A/A									partly broken
			0.22			A/A									solid
				1.09											
74°			0.87			A/A	intbd CRSH (dk grey)	highly bioturb.							mostly solid
(10)	22.57		0.64			FS		carb. lamell.	Fe-stain S/S // bdy.						partly broken

DRILL CORE LOG

B C N	UNIT		THICKNESS		SAMPLE NO.	LITHOLOGY DESCRIPTION					MARKER rec r, a, d d, o, b	STR	FRAC/m		FRACTURE TYPE AND CHARACTERISTICS
	From	To	Apparent	True		Strat. Lithology	Grain Size	Fresh Colour	Bedding Charact.	Other Sed Charact.			bd	jt	
						Box 12									
70°	22.57		1.50			FS - MS occ calc fl. frac. Fe: stain					24.38			partly broken	
			0.27			A/A								"	
			0.53			A/A s/s at basal contact.								mostly solid.	
			0.05			CRSH s/s								badly broken - pulv.	
											25.6			0.85 1.22 (-.37)	Highly Mottled
73°			1.20			FS - MS intbd. A/A.								partly	
						Box 14									
75°	27.10		0.98			A/A planar bdg. calc. fl. frac. high oblique & to bdg.					27.43			mostly solid	
														2.18 1.83 (+.35)	Highly Mottled

DRILL CORE LOG

 Quintette Limited

HOLE No. QMDB9503

PAGE No. 5 of 75

B C N	UNIT		THICKNESS		SAMPLE NO.	LITHOLOGY / DESCRIPTION					MARKER rec r. q. d. d o b	STR	FRAC/m		FRACTURE TYPE AND CHARACTERISTICS
	From	To	Apparent	True		Strat. Lithology	Grain Size	Fresh Colour	Bedding Charact.	Other Sed Charact.			bd	jt	
	2710		0.68	1.72		A/A	shiny S/S surf.	(FS)						partly broken	
(75)			0.06				A/A				28,35			0.68 0.92	(-0.24)
			0.30				MS-FS	intbd (more MS than FS)						broken.	
			0.10				FS	contorted & intbd CC & CSH	Pyrite undul. S/S					partly broken.	
good	65°		0.48	0.46			MS	intbd FS	calc. fl. frac to 3mm // bdg.					partly broken.	
			0.20	0.36			FS	intbd CRSH (abdt.)	bioturb.					"	
			0.16					FS		soft sed. def. (flames)					mostly solid
			0.12				CRSH	intbd FS	contorted bdg. soft sed def.					mostly solid	
			0.32				FS - VFS	minor CRSH	lamell.						
		2963	0.13				CRSH	intbd FS (minor)	bioturb.						

Box 15

inspected by
4/1/85

B C N	UNIT		THICKNESS		SAMPLE NO.	LITHOLOGY DESCRIPTION					MARKER rec r.q.d. d.o.b	STR	FRAC/m		FRACTURE TYPE AND CHARACTERISTICS
	From	To	Apparent	True		Strat. Lithology	Grain Size	Fresh Colour	Bedding Charact.	Other Sed Charact.			bd	jt	
						Box 16									
		29.63	0.13	} 0.26		A/A	(crsh)								solid
			0.29			FS	ironstone bands to 1cm thick								mostly solid
				} 1.48											
65°			1.07			FS	intbd SSH & CRSH		calc. fl. frac.						mostly solid
						Box 17									
			0.12		A/A	bottom 0.04 bioturb.		grades to CRSH							solid
			0.24		SH			Friable	S/S.						broken
65°			0.72		FS	intbd CRSH		bioturb.	soft. sed def.						mostly solid
			0.24		A/A.										
		32.90	0.46		FS-MS	occ. SSH		lamell.							

30.48

2.27
2.13 (+.16)

32.61

2.15
2.13 (+.03)

B C N	UNIT		THICKNESS		SAMPLE NO.	LITHOLOGY DESCRIPTION					MARKER rec r.g.d. dob	STR	FRAC/m		FRACTURE TYPE AND CHARACTERISTICS
	From	To	Apparent	True		Strat. Lithology	Grain Size	Fresh Colour	Bedding Charact.	Other Sed. Charact.			bd	jt	
						Box 20									
↑	36.81		1.67	} 1.90		FS		highly frac throughout. Calc. & Fe along frac. pitted (dissolution of calc. in frac.)							mostly solid.
													39.01		$\frac{2.44}{2.43}$ (+.01)
62°			0.23			A/A		blebs CRSH							solid.
✱						Box 21									
66°			1.95	1.04		A/A									mostly solid.
															$\frac{1.28}{1.22}$ (+.06)
			0.11			CRSH		carbonaceous. Fe-stain. VFS lamell.							broken.
			0.84	81		FS		^{oee} VFS lamell. V Fe-stone nodules (0.5cm)							
						Box 22									
↓	40.93		0.26			VFS	intbd	FS & CRSH lamell. undul. bdg. hard Fe-stone (3cm) @ base. S/S @ base							partly broken.

B C N	UNIT		THICKNESS		SAMPLE NO.	LITHOLOGY DESCRIPTION					MARKER rec r.q.d dob	STR	FRAC/m		FRACTURE TYPE AND CHARACTERISTICS	
	From	To	Apparent	True		Strat. Lithology	Grain Size	Fresh Colour	Bedding Charact.	Other Sed Charact.			bd	jt		
↑ 67°	40.93		0.41			FS	occ. CRSH lamell.	occ. Fe-stone nodules							solid	
✱			1.37	} 3.14		FS	Fe-stain	occ. frac.	massive			41.76			$\frac{1.62}{1.53}$ (7.09)	
																solid
69°			1.77	} 1.62		A/A	lt. red-brown color (Fe-stain)								mostly solid	
✱													44.81			$\frac{3.14}{3.05}$ (7.09)
			0.20			A/A	grey color								solid	
71°			1.42			A/A									partly broken	
✱																
(68)	46.51		0.41			A/A (FS)									$\frac{1.62}{1.88}$ (7.26)	
															"	

B C N	UNIT		THICKNESS		SAMPLE NO.	LITHOLOGY DESCRIPTION					MARKER rec r.q.d. dob	STR	FRAC/m		FRACTURE TYPE AND CHARACTERISTICS	
	From	To	Apparent	True		Strat. Lithology	Grain Size	Fresh Colour	Bedding Charact.	Other Sed. Charact.			bd	jt		
68°	46.51		1.72 1.74	2.68											partly broken → mostly solid.	
			0.11		A/A						48.77				2.15 2.08 (+.07)	solid.
		48.78	0.44		A/A											mostly solid.
68°	48.78		0.61	2.47											"	
			0.12		A/A											partly broken
			0.71		FS massive. lt. grey. (no bdy).						49.99				7.16 6.22 (-.06)	solid
v	51.25		1.03													mostly solid

BOX 25

BOX 26

BOX 27

B C N	UNIT		THICKNESS		SAMPLE NO.	LITHOLOGY DESCRIPTION					MARKER rec r, q, d, d.o.b	STR.	FRAC/m		FRACTURE TYPE AND CHARACTERISTICS
	From	To	Apparent	True		Strat. Lithology	Grain Size	Fresh Colour	Bedding Charact.	Other Sed. Charact.			bd.	jt.	
	152.60		15	↑		fc									solid
32°			9			sch									
			72			fs									"
			(78)			MR									
			19	↓		fs; calc. filled fracs numerous (mostly with alteration)									solid
			23	↓		fs									
				1.36											
32°			94	↓		fs									solid
			41			vfs									"
(45)															
	156.40		29	↓		fs									"

3.02

DRILL CORE LOG



Don K.
Murray G.
July 21, 1989

B C N	UNIT		THICKNESS		SAMPLE NO.	LITHOLOGY DESCRIPTION					MARKER rec r.q.d d.o.b	STR	FRAC/m		FRACTURE TYPE AND CHARACTERISTICS
	From	To	Apparent	True		Strat. Lithology	Grain Size	Fresh Colour	Bedding Charact.	Other Sed Charact.			bd	jt.	
↑	56.92		0.09			SH	carb.	S/S							partly broken
			0.11			FS	intbed	CRSH lamell.	wavy bdg.						solid
			0.09			CRSH	A	Fe-stone	nodule						partly broken
64°			0.63			FS-MS		lge Fe-stone	nodule @ base						solid
*										57.91				0.95 0.91	(1.04)
			1.03			A/A									solid
61°			1.98			A/A		calc. fl frac.	high oblique	bdg.					mostly solid
			0.03			SH		S/S							badly broken
*															
62°	60.56		0.18			FS	A/A				60.96			3.04 3.05	- 0.01

BOX 31

BOX 32

B C N	UNIT		THICKNESS		SAMPLE NO.	LITHOLOGY DESCRIPTION					MARKER rec r.g.d d.o.b	STR	FRAC/m		FRACTURE TYPE AND CHARACTERISTICS
	From	To	Apparent	True		Strat. Lithology	Grain Size	Fresh Colour	Bedding Charact.	Other Sed Charact.			bd	jt	
	60.56		0.40			CRSH	intbd	FS							Solid
(62)			0.70			FS	A/A								mostly solid.
*			0.09			SSH	carbonaceous	S/S dk. grey							broken
			0.35			FS									mostly solid.
						BOX 33									
64°			1.14			FS	A/A								solid
											64.01				2.86 3.05 (-19)
			0.87			FS	A/A								solid
						BOX 34									
			0.24			A/A									solid
*			0.16			SSH	carb.	highly S/S							badly broken
(66)	66.12		1.61			FS	A/A								mostly solid.

B C N	UNIT		THICKNESS		SAMPLE NO.	LITHOLOGY DESCRIPTION					MARKER rec r.q.d dob	STR	FRAC/m		FRACTURE TYPE AND CHARACTERISTICS	
	From	To	Apparent	True		Strat. Lithology	Grain Size	Fresh Colour	Bedding Charact.	Other Sed Charact.			bd	fr		
	66.12		0.25	3.60												
			1.67													
			0.07													
			0.85 0.85													
			0.94													
				3.63												
	70.64		0.76													

Box 35

FS A/A

67.06

3.13
3.05 (1.08)

solid

A/A

Box 36

A/A

solid

FS intbd CRSH carb. in part. S/S calc. fl.
frag.

69.89

2.59
2.83 (-.24)

partly broken

FS w VFS, CRSH intbd. undul. bdg. SH carb.
soft. sed. def. Bioturb.

mostly solid

Box 37

A/A

mostly solid

B C N	UNIT		THICKNESS		SAMPLE NO.	LITHOLOGY DESCRIPTION					MARKER rec. r.q.d. dob	STR	FRAC/m		FRACTURE TYPE AND CHARACTERISTICS
	From	To	Apparent	True		Strat. Lithology	Grain Size	Fresh Colour	Bedding Charact.	Other Sed. Charact.			bd	jt	
(73)			1.10 1.19			FS intbd CRSH	high & frac. S/S.			numerous calc fl. frac.				partly broken	
*			0.19			Box 38								badly broken	
			0.19			VFS	highly frac. calc. fl. frac.			[fault breccia?]				3.08 2.65 (+0.43)	
(66°)			1.72			FS intbd carb VFS			planar x-bdg. (low angle)			72.54		mostly solid	
				1.77		Box 39									
			0.05			A/A								solid	
*			0.22			CRSH	dk grey, carb.	friable	S/S	throughout				broken	
				0.37			calc. fl. frac.								
(40)	74.07		0.15			CRSH intbd FS	equally	carb.	A/A					solid	
												74.98		2.14 2.44 (-.30)	

B C N	UNIT		THICKNESS		SAMPLE NO.	LITHOLOGY DESCRIPTION					MARKER rec. r.q.d. d.o.b	STR	FRAC/m		FRACTURE TYPE AND CHARACTERISTICS
	From	To	Apparent	True		Strat. Lithology	Grain Size	Fresh Colour	Bedding Charact.	Other Sed Charact.			bd	ft	
40°	74.07		0.86	2.30		FS intbd CRSH bioturb. contorted bdg. occ. calc fl frac. zone of sideritic conc.								mostly solid.	
			0.63			FS intbd VFS calc. fl. frac.								solid.	
			0.81			A/A sub-odd CRSH clasts at base (in FS)								solid.	
			0.11			FS intbd CRSH. Her. convoluted. calc. fl. frac.								solid.	
			0.10			CRSH carb. S/S.								broken.	
			0.23 0.24	1.64		FS intbd CRSH hunt.								badly broken.	
42°			0.38			FS intbd VF in part.								solid.	
	77.59		0.40			A/A								solid.	

BOX 40

78.03

$\frac{3.13}{3.05}$ (7.08)



B C N	UNIT		THICKNESS		SAMPLE NO.	LITHOLOGY DESCRIPTION					MARKER rec r.q.d. d.ob	STR	FRAC/m		FRACTURE TYPE AND CHARACTERISTICS
	From	To	Apparent	True		Strat. Lithology	Grain Size	Fresh Colour	Bedding Charact.	Other Sed Charact.			bd	jt	
						Box 41									
	77	59	0.63			A/A								solid	
↑	45°		0.77			FS	intbd	VFS & CRSH	abdt. calc. fl. frac.	bioturb. in part.				mostly solid	
			0.70												
			0.16			CRSH	intbd	FS	bioturb.	carb.				"	
↓			0.42			FS	intbd	CRSH	soft sed. def.	bioturb.				solid	
				0.47		Box 42									
			0.05			A/A								solid	
fair	28°		0.24			CRSH	in	FS	intbds.	carb. throughout	bioturb.			solid	
			0.45			FS	intbd	minor	CRSH	calc. fl. frac. @ high Δ				solid	
				0.51											
			0.06			A/A				Bioturb.				solid	
			80.87	0.52	0.50	CRSH			very	frbl.	abdt. calc. fl. frac.			badly broken	

DRILL CORE LOG Δ = angle

B C N	UNIT		THICKNESS		SAMPLE NO.	LITHOLOGY DESCRIPTION					MARKER rec. r.q.d. dob	STR	FRAC/m		FRACTURE TYPE AND CHARACTERISTICS
	From	To	Apparent	True		Strat. Lithology	Grain Size	Fresh Colour	Bedding Charact.	Other Sed. Charact.			bd	jt	
	80.87	81.46	0.59			FS	intbed	CRSH	convol. bdy	bioturb	calc. st. frac.				Solid
(20)															
	81.46	82.55	1.09			SSH	;	CRSH	;/	VFS	intbed	;	bioturb	;	carb
	82.55		0.11			CD	;	intbed	coal	and	CSH				Broken
			0.04			CC	;								"
			0.05			CSH	;	mixed	DRSH		CC	;			"
(32)			0.06		4066	DRSH	;								"
			0.05			CC	;	mixed	CSH	-	CB				Early break
			0.09			CSH	;								"
		82.98	0.03			CL	;								Early break
	82.98		0.04			CC									
		83.08	0.010	0.15 CB/CC	4067	CB	;								

DRILL CORE LOG

 Quintette Coal Limited

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B C N	UNIT		THICKNESS		SAMPLE NO.	LITHOLOGY DESCRIPTION					MARKER rec. r.q.d. d.o.b	STR.	FRAC/m		FRACTURE TYPE AND CHARACTERISTICS				
	From	To	Apparent	True		Strat. Lithology	Grain Size	Fresh Colour	Bedding Charact.	Other Sed. Charact.			bd.	jt.					
					4067														
	83.08		0.05															83.87	2.79 2.74 (t.05)
			0.01																CB overall; mixed ^{CA} ^{CC} CS -CB;
			0.19																CSH;
																			CB; tryp, occ CSH lam
																			Solid
																			BOX 44
(32)			0.18																CC; tryp along sheared surface, ext sheared thru, loc qd to CB, occ coal sh lam
			0.06																CSH; ext sheared interlam CSH + min coal
			0.05															CC; ext sheared, tryp, to calc, s/s br, vit, brit	
			0.24															CB; tryp, ext sheared, to calc, occ shaly lam to 2mm,	
	83.88		0.02															CB; shaly lam, interlam CSH + coal	

DRILL CORE LOG

 Quintette Coal Limited

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B C N.	UNIT		THICKNESS		SAMPLE NO.	LITHOLOGY DESCRIPTION					MARKER rec. r.q.d. d.o.b	STR	FRAC/m		FRACTURE TYPE AND CHARACTERISTICS	
	From	To	Apparent	True		Strat. Lithology	Grain Size	Fresh Colour	Bedding Charact.	Other Sed. Charact.			bd.	jt.		
					4067										2.30 2.13 (+.17)	
	85.27		0.66	1.52		CB; A/A, blocky										2.01. Broken & extensively sheared
			0.19			CB; bri vit, brit, to py										
			0.04			CA;										"
			0.04			CB; F/A										"
32°			0.06			CA; bri vit, brit,										"
			0.10			CB;										"
			0.08			CA;										"
			0.05	0.72 CA/CB		CB;										"
			0.10			CA;										"
			0.07			CB; mnr calc, mnr py										"
	86.76		0.10			CA; bri, brit, blocky, mnr py, mnr calc										mostly solid

1.49
DRILL CORE LOG



HOLE No. QM6 89503
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B C N	UNIT		THICKNESS		SAMPLE NO.	LITHOLOGY DESCRIPTION					MARKER rec. r.q.d. d.o.b.	STR	FRAC/m		FRACTURE TYPE AND CHARACTERISTICS	
	From	To	Apparent	True		Strat. Lithology	Grain Size	Fresh Colour	Bedding Charact.	Other Sed. Charact.			bd.	jt.		
	86.76		0.08	}	4067	CB; mic CSH lam, in calc along west face,									Mostly solid	
			0.04			CSH; (true thickness ~ 2cm)										"
			0.14	}		CB; A/A, in py along shortest axis.									"	
			0.02			0.16 CB/CC	CC;									"
			0.01			CSH;									"	
			0.04			DKSH;									"	
			0.05	}		CA;									"	
	87.17		0.03			0.08 CA/CB	CB									"
	87.17		0.13	}		4068	DKSH;									"
			0.03				CSH; gradg to CD									
					0.06		BOX 46									
			0.03	CSH; A/A											S-lid	

B C N	UNIT		THICKNESS		SAMPLE NO.	LITHOLOGY DESCRIPTION					MARKER rec. r.q.d. d.o.b	STR	FRAC/m		FRACTURE TYPE AND CHARACTERISTICS	
	From	To	Apparent	True		Strat. Lithology	Grain Size	Fresh Colour	Bedding Charact.	Other Sed. Charact.			bd.	jt.		
			0.31	0.45	4068	CSH; carb, occ plant debris, sandy									Solid	
			0.14				CSH; A/A									
			0.06				DKGSA; incryp carb; dist carb. shales thin									
			0.02				CSH;									"
			0.03				CSH;									"
			0.03				DKGSAH;									"
			0.01				CSH;									"
			0.01				DKGSAH;									Solid
	87.97		0.05				CL; inflow coal and CSH grad to CC visibly calc along frac									"
		88.04	0.02			DKSAH;									"	

DRILL CORE LOG



HOLE No. QML 89503
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B C N	UNIT		THICKNESS		SAMPLE NO.	LITHOLOGY DESCRIPTION					MARKER rec. r.q.d. d.o.b	STR.	FRAC/m		FRACTURE TYPE AND CHARACTERISTICS
	From	To	Apparent	True		Strat. Lithology	Grain Size	Fresh Colour	Bedding Charact.	Other Sed. Charact.			bd.	jt.	
	88.04		0.13		4068	CB;								Partly Broken	
			0.02			MC									
	88.21		0.02			CC;									Solid
			0.05			CSH;									
			0.05			DKSH;									
			0.31			DKKSH;									
(32)			0.04			CSH;									Solid
			0.03			CB;									
			0.04			CSH;									
			0.02			CSH;									
			0.17			CSH;									
	88.93	89.11	0.18			CB;									
	89.11	89.31	0.20			DKSH;									

DRILL CORE LOG

 Quintette Coal Limited

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B C N	UNIT		THICKNESS		SAMPLE NO.	LITHOLOGY DESCRIPTION					MARKER rec. r.q.d. d.o.b	STR.	FRAC/m		FRACTURE TYPE AND CHARACTERISTICS	
	From	To	Apparent	True		Strat. Lithology	Grain Size	Fresh Colour	Bedding Charact.	Other Sed. Charact.			bd.	jt.		
	89.31		0.02		4069	CB									S.A	
			0.12 0.12													
				0.42 CB/CA			CB; with CSH & bri. vit. brit bands									Solid
			0.11				CA									"
			0.06				CB, A/A									"
(52)			0.03				CA;									"
		89.73	0.08 0.10				CB;									Solid
	89.73		0.15				CrSH; prolific spherical pellets? (fecal pellets) slit could mat thin, silty thin (bioturbated mat)									Solid
		90.05	0.17				MR									
	90.05		0.09				CB; tipy									broken
			0.02	0.41 CA/CB		CA; tipy, tr calc, sl sheered, bri, vit, brit, black									"	
		90.46	0.30 0.34			CA; A/A, loc gddg to CB, occ CSH to 1cm sm (1mm-2mm) oval to circular translucent macerals? spores? thru.									"	

DRILL CORE LOG



HOLE No. QMD 89503

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B C N.	UNIT		THICKNESS		SAMPLE NO.	LITHOLOGY DESCRIPTION					MARKER rec. r.q.d. d.o.b	STR.	FRAC/m		FRACTURE TYPE AND CHARACTERISTICS	
	From	To	Apparent	True		Strat. Lithology	Grain Size	Fresh Colour	Bedding Charact.	Other Sed. Charact.			bd.	jt.		
	90.46		0.12 0.14	0.29 CB/CC	4069	CB; mixed CA-CC									Badly Broken; pulverized	
			0.02			CC;										"
			0.15			CB; mixed CA-CC; LA										"
			0.03	0.12 CA/CB		CA;										partly solid
			0.09			CB;										
			0.02			CL; to py, abnt spherical ferral pellets? to 1 mm thru										"
	91.02		0.13			CB;										solid
	91.02		0.02			DKSH; coal lens to 1 mm thru										"
			0.06			DKERSH; more calc along cleaved surfaces										"
	91.14		0.04	0.18 CB/CC		CC; cleaved; l. calc; to py, CSW lam thin avg to CD										"
	91.14	91.28	0.14		CB;											"

91.49/300

2.98
3.05 (-.07)

DRILL CORE LOG

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Quintette C Limited

HOLE No. QMD 87503

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B C N.	UNIT		THICKNESS		SAMPLE NO.	LITHOLOGY DESCRIPTION					MARKER rec. r.a.d. d.o.b	STR.	FRAC/m		FRACTURE TYPE AND CHARACTERISTICS
	From	To	Apparent	True		Strat. Lithology	Grain Size	Fresh Colour	Bedding Charact.	Other Sed. Charact.			bd.	jt.	
	91.28		0.03		4069	CSH; gradg to CD								Solid	
			0.13			CB; A/A									"
				0.46											
			0.33			CB;									Solid
(32)			0.23			CA;									"
			0.01			MC									
			0.01			CD;									Broken
	92.10		0.08			CE;									"
	92.10		0.30			SSH; loc gradg CrSH; abnt carb fl rmnsthru									Solid
	93.40		1.00			CrSH; occ calc fil frac; carb thru to py									"
(44)	93.40		0.05		SSH; A/A									"	
	93.47		0.02		GSH; A/A									"	

B C N	UNIT		THICKNESS		SAMPLE NO.	LITHOLOGY DESCRIPTION					MARKER rec. r.a.d. d.o.b	STR	FRAC/m		FRACTURE TYPE AND CHARACTERISTICS
	From	To	Apparent	True		Strat. Lithology	Grain Size	Fresh Colour	Bedding Charact.	Other Sed. Charact.			bd	jt	
	93.47		0.03		EO	DKGRSH; mnr py along sheared surfaces.									broken
			0.04			CA; abnt calc (oval-circular platelets) oriented ⊥ to bedding; grad to CB									solid
			0.07			SSH; carb									"
			0.63			CrSH; abnt carb pl debris thin, mnr py									"
(44)			0.11			DKGRSH;									"
	94.35		0.04			CB;									Red 2; broken
			0.03			DKGRSH;									"
			0.02			CB;									"
			0.04			DKGRSH; mnr py along sheared surfaces.									"
	94.53		0.05		CA;									"	

94.49/310

2.78
3.05 (-.27)

B C N	UNIT		THICKNESS		SAMPLE NO.	LITHOLOGY DESCRIPTION					MARKER rec. r.q.d. d.o.b	STR.	FRAC/m		FRACTURE TYPE AND CHARACTERISTICS
	From	To	Apparent	True		Strat. Lithology	Grain Size	Fresh Colour	Bedding Charact.	Other Sed. Charact.			bd.	jt.	
4A°	94.53		0.41		EC	DKRSH; Katic orientation of shal surfaces								Solid	
			0.06			CSH; intlam clean bri vit coal (CA) + SH								mostly solid	
X			0.07			Fault gouge (GSH) highly disturbed with GSH evidence of sheared and filled in S/S on bottom surface of mar calc along with micro fiss (possibly from jointing)								"	
			0.25	0.60		DKRSH; silty ip; occ coaly sh. trace of sh. g fine thin parallel fine bedding								"	
			0.35				DKRSH; loc girdg DKSH; occ wispy coal shiny grey and blebs								Solid
			6.04			CSH;								"	
			0.06	1.8cm		CA;								"	
6A°	95.91		0.14		CSH; girdg to DKSH, coal lam to 3mm then max frag. to calc								"		

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DRILL CORE LOG

B C N	UNIT		THICKNESS		SAMPLE NO.	LITHOLOGY DESCRIPTION					MARKER rec. r.q.d. d.o.b.	STR.	FRAC/m		FRACTURE TYPE AND CHARACTERISTICS
	From	To	Apparent	True		Strat. Lithology	Grain Size	Fresh Colour	Bedding Charact.	Other Sed. Charact.			bd.	jt.	
	95.91		0.34			DKSH; intbd DKGRSH, coal lam to 2mm con'then.									Mostly Solid
			0.14			CSH; coal lam									bed. Break
(69)			2.19			DKSH; A/A									partly Fracture
			0.03			CD; intlam CSH; coal;									"
			0.05			LKSH; A/A									bed. Break
											97.54/320				3.12 3.05 (+.07)
72°			0.17		EO	CSH; intbd coal; CSH; coal beds to 5mm; gen 2mm or less; gradg to CD									bed. Break
			0.02			DKSH;									"
77°			0.16			CD; intbd coal (CO); CSH;									"
						BOX 51									"
(63)	97.23		0.22			DKGRSH; coal lam to 1mm con'then to pyritic calc.									"

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DRILL CORE LOG



HOLE No. QMB 87903

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B C N	UNIT		THICKNESS		SAMPLE NO.	LITHOLOGY DESCRIPTION					MARKER rec. r.q.d. d.o.b	STR	FRAC/m		FRACTURE TYPE AND CHARACTERISTICS
	From	To	Apparent	True		Strat. Lithology	Grain Size	Fresh Colour	Bedding Charact.	Other Sed. Charact.			bd.	jt.	
	97.23		0.21			DKSH;	coal lam	to 2mm							Broken
			0.18			CSH;	about coal lam	to 6mm							"
63°			0.23			DKSH, gdy DKGRSH;	coal lam to lam,	coal lam or less							Partly B.
↓			0.18			DKGRSH;	silty ip,	carb thin							"
62°			0.22			CSH;	silty ip,	about carb pt. mass thin							"
			0.42			SH;	friable, fissile,	gdy to DKGRSH							Partly B.
			0.20			DKGRSH;	loc silty,								Partly B.
			0.03			DLSH;	thin coal lam	thin							"
						Box 52									
			0.02		EO	CC;	gdy to CB,	CSH lam thin thru							Partly B.
↓	99.35		0.43		↓	DKSH;	mixed CSH-DKGRSH;	occ thin coal stringers to 5mm							"

2.12
DRILL CORE LOG

B C N	UNIT		THICKNESS		SAMPLE NO.	LITHOLOGY DESCRIPTION					MARKER rec. r.q.d. d.o.b.	STR.	FRAC/m		FRACTURE TYPE AND CHARACTERISTICS
	From	To	Apparent	True		Strat. Lithology	Grain Size	Fresh Colour	Bedding Charact.	Other Sed. Charact.			bd.	jt.	
↑	99.35		0.32	0.83	4070	DKGRSH; silty ip					100.58/330'			Partly broken	
			0.51			DKGRSH; A/A									
57°		100.47	0.29	DKSH; coal stringers, lam; 2 blobs con thru							"				
	100.47		0.32	DKGRSH; A/A							"				
				BOX 53											
↓		100.92	0.13	CSH; abnt coal lam thru,							Solid				
58°	100.92		0.07	0.09 CB/CC		CC overall; intbd csh + CB; coaly sh stringers to lam							"		
			0.02			CB;							"		
			0.03	CD;							"				
			0.10	CC											
			0.05	CD; mixed csh + CB; bi coal lam							Partly Broken				
			(21)	MC											
	101.50		0.10	CC; abnt csh lam thru to lam							Solid				

1.93
DRILL CORE LOG

 Quintette Coal Limited

HOLE No. QMB 89503
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B C N	UNIT		THICKNESS		SAMPLE NO.	LITHOLOGY DESCRIPTION					MARKER rec. r.g.d. d.o.b	STR.	FRAC/m		FRACTURE TYPE AND CHARACTERISTICS	
	From	To	Apparent	True		Strat. Lithology	Grain Size	Fresh Colour	Bedding Charact.	Other Sed. Charact.			bd.	jl.		
			0.08	0.20	4070	CB									Solid	
58)	101.70	0.12	CB													"
*	101.70	0.03	CSH;													"
		0.10	DKGRSH;													"
61)	102.01	0.18	CSH;													"
*	102.01	0.07	CA; abnt calc along frac, tri, vit, brit, blocky occ CSH lam													"
		0.28	0.33 CB/CC	CB;												"
65)	102.41	0.05		CC, SH lam to 2mm cont thru												
	102.41	0.19 0.24		DKGRSH; Abc qdgy to DKSH												Beddy Breck.
	102.67	0.07		CC - tri, vit, brit w/ lam CSH to 3mm thru, mnc calc along vert. frac. qdgy to CB												justly broken
BOX 54																

DRILL CORE LOG



HOLE No. GRAD 89503

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B C N	UNIT		THICKNESS		SAMPLE NO.	LITHOLOGY DESCRIPTION					MARKER rec. r.a.d. d.o.b	STR.	FRAC/m		FRACTURE TYPE AND CHARACTERISTICS
	From	To	Apparent	True		Strat. Lithology	Grain Size	Fresh Colour	Bedding Charact.	Other Sed. Charact.			bd.	jt.	
(65)	102.67		0.55 0.60		4071	DKGRSH; loc grdy to EKSH; sec coal strips loc silty									bed. sp.
↓		103.29	0.07			DKSH									
70°	103.29		0.07		4072	CD; abnl coal lam thin; grdy to CSH.									priority break.
			0.08			CC; intlam coal; CSH; grdy to CD.									"
											103.63/340'				$\frac{3.64}{3.05}$ (7.59)
			0.12			CD;									"
		103.75	0.19			CC sec CSH lam to 3mm									"
X		103.75	0.04			CSH; abnl coal lam to 3mm grdy to EKSH									"
		104.16	0.37			DKSH; loc grdy to DKGRSH									"
63°	104.16		0.07			CSH; grdy to CD									"
			0.05			CD;									"
		104.33	0.05			CC									"

DRILL CORE LOG



HOLE No. QMD 89503

PAGE No. 25 of 75

B C N	UNIT		THICKNESS		SAMPLE NO.	LITHOLOGY DESCRIPTION					MARKER rec r.q.d. d.o.b	STR.	FRAC/m		FRACTURE TYPE AND CHARACTERISTICS
	From	To	Apparent	True		Strat. Lithology	Grain Size	Fresh Colour	Bedding Charact.	Other Sed. Charact.			bd.	jt.	
	104.33		0.17	0.22	4072	CB; loc qdgy CL; im calc along rest frac								Solid	
(65)			0.01			CSH								"	
			(0.11)			MC	Box 55							Partly broken	
	104.66		0.04			CB;								"	
	104.66		0.02			CSH;								Solid	
			0.12			DKGRSH; silty ip									
64			0.27			CSH; interbedded coal & silty, coal stringers to 5cm gen & more or less								"	
			0.36 (0.30)			DKGRSH; abnt carb pl runs thru								Partly broken	
			1.11 (1.08)			DKSH; loc qdgy CSH								badly broken / rubble	
	105.66		2.25 (2.11)			CSH; mixed CE-DKGRSH; qdgy to CD.									
										16.1 / 318"			2.24 2.44 (-.20)		

DRILL CORE LOG



HOLE No. QML 89503

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B C N.	UNIT		THICKNESS		SAMPLE NO.	LITHOLOGY DESCRIPTION					MARKER rec. r.a.d. d.o.b	STR.	FRAC/m		FRACTURE TYPE AND CHARACTERISTICS	
	From	To	Apparent	True		Strat. Lithology	Grain Size	Fresh Colour	Bedding Charact.	Other Sed. Charact.			bd	jt.		
					4074											
	106.74		5			CA										partly brkn
			19			CB										
			10	0.53 CA/CB		CA										mostly solid
			5			CB										"
			5			CA										"
(50)			3			CC										
			4			CA										
			17	0.21 CA/CB	CB											
	106.80		4		CSH										partly brkn	
			2		CB										"	
			5	0.07 CC/CB	CC										"	
	106.91															

DRILL CORE LOG



HOLE No. QMD89503

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B C N	UNIT		THICKNESS		SAMPLE NO.	LITHOLOGY DESCRIPTION					MARKER rec. r.g.d. d.o.b	STR.	FRAC/m		FRACTURE TYPE AND CHARACTERISTICS
	From	To	Apparent	True		Strat. Lithology	Grain Size	Fresh Colour	Bedding Charact.	Other Sed. Charact.			bd.	jt.	
	108.14	108.18	4		4076	CB overall								bitten top	
(70)	108.18		16			fs									bitten
		108.31	(2)			MR									
			1			ssh									vertical line
	108.31		5			CC overall									pulv.
			3			CA									badly bitten
			4	} 0.05 CB/CC		CB									"
			1			CC									
			(20)			MC									
(63)			2	} 0.05 CB/CC		CB overall									pulv.
			3		CC										badly bitten
	108.80		5		CA									"	
			4		ssh									"	
	108.87		3		CD									"	

51

DRILL CORE LOG



HOLE No. QMD89503

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B C N	UNIT		THICKNESS		SAMPLE NO.	LITHOLOGY DESCRIPTION					MARKER rec. r.q.d. d.o.b	STR	FRAC/m		FRACTURE TYPE AND CHARACTERISTICS	
	From	To	Apparent	True		Strat. Lithology	Grain Size	Fresh Colour	Bedding Charact.	Other Sed. Charact.			bd	jt.		
	108.87		5		4077	CA									badly broken	
			9			CC										broken to pieces
			(11)			MC										"
			7			CA										"
	109.35		16	0.25 CB/CA		CB										"
			6			CD										partly broken
			2			CSH										"
(65)	109.48		5			CD										"
			2			CB										"
			5			CC										broken
			8	0.41 CB/CC		CB										"
			10.9			CB overall										pulverized
	109.75		3		CC										badly broken	

.78

DRILL CORE LOG



B C N	UNIT		THICKNESS		SAMPLE NO.	LITHOLOGY DESCRIPTION					MARKER rec. r.a.d. d.o.b.	STR.	FRAC/m		FRACTURE TYPE AND CHARACTERISTICS
	From	To	Apparent	True		Strat. Lithology	Grain Size	Fresh Colour	Bedding Charact.	Other Sed. Charact.			bd.	jt.	
					↑ 4077										
	109.75	109.89	15	19	↓		Box 58								
							CC overall								badly broken to retained
	109.89		19				CSH/CD mixed								"
				0.24											
		110.13	5				CSH								mostly solid
	110.13		3				CC								"
			②				MC								"
			17				CB								"
				0.21 CB/CC	4078										
		110.39	4				CC								"
		110.49	10				dksh								"
			4				CA								"
		110.57	4				CC								solid

DRILL CORE LOG



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B C N	UNIT		THICKNESS		SAMPLE NO.	LITHOLOGY DESCRIPTION					MARKER rec. r.q.d. d.o.b	STR.	FRAC/m		FRACTURE TYPE AND CHARACTERISTICS
	From	To	Apparent	True		Strat. Lithology	Grain Size	Fresh Colour	Bedding Charact.	Other Sed. Charact.			bd.	jt.	
	112.21		2		4079	CB								partly brecc	
			6			CA									"
			5	0.63 CA/CB		CB									"
(62)			1			CA									"
			7			CB									"
			7			CA									"
			6			CA									mostly solid
*															
27'			2			CC									"
			5			CA									"
			1			CC									"
			10			CB									"
	112.78		5		CA									solid	

DRILL CORE LOG ⁵⁷

 Quintette Corporation Limited

HOLE No. QMD89:03

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B C N	UNIT		THICKNESS		SAMPLE NO.	LITHOLOGY DESCRIPTION					MARKER rec. r.q.d. d.o.b	STR.	FRAC/m		FRACTURE TYPE AND CHARACTERISTICS
	From	To	Apparent	True		Strat. Lithology	Grain Size	Fresh Colour	Bedding Charact.	Other Sed. Charact.			bd	jt.	
	112.78		4		4079	CB								solid	
			4	0.55 CA/CB		CA									"
(27)			13			CB									"
			8			CA									"
			11			CB									"
			3		CC									"	
X	113.30		9		X	CA								"	
52	113.30		9			dksh								mostly solid	
X					X										
					4080									Box 60	
68			42 (37)			dksh								partly bitn	
	113.80		4			esh								badly bitn	
	113.80		11		X										
	113.96		5		4081	CC - (S) laminations								pulv	
						esh									

DRILL CORE LOG

 Quintette Coal Limited

HOLE No. QMP89503

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B C N	UNIT		THICKNESS		SAMPLE NO.	LITHOLOGY DESCRIPTION					MARKER rec. r.a.d. d.o.b	STR	FRAC/m		FRACTURE TYPE AND CHARACTERISTICS	
	From	To	Apparent	True		Strat. Lithology	Grain Size	Fresh Colour	Bedding Charact.	Other Sed. Charact.			bd	jt		
	113.96		5		4081	CB									badly brkn	
(68)			16.1A			CC overall										lit. to pulv
	114.40		30.25			CA to CC (CB overall)										penetrated
	114.40		20.15		4082	esh										badly brkn to pulv
			H ⁹			dkgrsh										broken
	114.72		H ⁸			CC										pulv
																379 / 115.5m
																$\frac{2.80}{2.74} (+.06)$
32°			7			fs										solid
																Box 61
	115.41		62			ms interbedded with vfs										solid
30°	115.41	116.78	137			fs										solid
																Box 62

DRILL CORE LOG

 Quintette Coal Limited

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B C N.	UNIT		THICKNESS		SAMPLE NO.	LITHOLOGY DESCRIPTION					MARKER rec. r.q.d. d.o.b	STR	FRAC/m		FRACTURE TYPE AND CHARACTERISTICS
	From	To	Apparent	True		Strat. Lithology	Grain Size	Fresh Colour	Bedding Charact.	Other Sed. Charact.			bd.	jt.	
(50)	116.78		106		4083	As								solid	
			5			dkgrsh									"
				0.78											$\frac{3.16}{3.05}$ (+.11)
120			73			dkgrsh									solid
		118.68	6			dksh occ coal lam to 0.5cm									brkn
	118.68		7			ce overall occ rsh lam									
						Box 63									
			7			CA									broken
			3			CB									"
			4	0.22 CA/CB		CA									"
			3		CB									"	
			5		CA									"	
	118.99		2		CC									"	

DRILL CORE LOG

 Quintette Coal Limited

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B C N	UNIT		THICKNESS		SAMPLE NO.	LITHOLOGY DESCRIPTION					MARKER rec. r.g.d. d.o.b	STR.	FRAC/m		FRACTURE TYPE AND CHARACTERISTICS		
	From	To	Apparent	True		Strat. Lithology	Grain Size	Fresh Colour	Bedding Charact.	Other Sed. Charact.			bd	jt			
	118.99		7		4083	CA									broken		
			①			MC											
			5	0.10		interbedded CA & CC										partly broken	
			5			CA											broken
			6	0.08 CB/CC		CB											
			2			CC											
(12)			20			CA											"
			2	0.13 CB/CC		CB											partly broken
			2			CC											"
			9			CB											"
	119.64		6			CA											"
	119.64		3			CSTH											
(32)			5		dkgrsh											"	
	119.81		9		CSH											"	

.81

DRILL CORE LOG



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B C N	UNIT		THICKNESS		SAMPLE NO.	LITHOLOGY DESCRIPTION					MARKER rec. r.a.d. d.o.b	STR.	FRAC/m		FRACTURE TYPE AND CHARACTERISTICS
	From	To	Apparent	True		Strat. Lithology	Grain Size	Fresh Colour	Bedding Charact.	Other Sed. Charact.			bd	jt.	
	119.81		3			dkgrsh									broken
			12	0.28		csk									"
		120.12	16			csk									v. badly brkn
	120.12		(3)			MR									"
32°			51			ssh; carb p.f.									solid
			41	0.57		ms									solid (brkn @ bottom)
															3.18 3.05 (+13)
			16			as above									solid
		121.56	33			fs grdg to vfs									"
37°	121.56		55			crsk									"
		122.18	7			dkgrsh									brkn partly
(40)	122.18	122.25	7		4084	cc									brkn

DRILL CORE LOG

 Quintette Coal Limited

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B C N	UNIT		THICKNESS		SAMPLE NO.	LITHOLOGY DESCRIPTION					MARKER rec. r.q.d. d.o.b	STR.	FRAC/m		FRACTURE TYPE AND CHARACTERISTICS	
	From	To	Apparent	True		Strat. Lithology	Grain Size	Fresh Colour	Bedding Charact.	Other Sed. Charact.			bd.	it.		
	122.25		10		4064	CA									broken	
			10			CB										partly brkn
			5			CA										solid
				asi												
			11			CB										broken
			3			CA										mostly solid
(45)			5			CB										"
			7			CA										"
			4			CC										brkn
			1			CB										"
			(4)			MC										"
			8			CA										"
	122.96		3		CD										"	

DRILL CORE LOG

 Quintette Limited

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B C N	UNIT		THICKNESS		SAMPLE NO.	LITHOLOGY DESCRIPTION					MARKER rec. r.g.d. d.o.b	STR.	FRAC/m		FRACTURE TYPE AND CHARACTERISTICS
	From	To	Apparent	True		Strat. Lithology	Grain Size	Fresh Colour	Bedding Charact.	Other Sed. Charact.			bd	jt.	
	122.96		4	0.57	4084	CD								brkn	
			8			CB									"
			2			CC									"
			4	0.29 CC/CB		CC									"
			9			CB									partly brkn
			6			CC									"
			10			CA									"
	123.45		6			CC									"
	123.45		6			CSH									"
45			42			dkgrsh									solid
	124.05		12		dksh									partly brkn	
	124.05	124.22	17		dkgrsh									solid	

DRILL CORE LOG



Quintette Coal Limited

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B C N	UNIT		THICKNESS		SAMPLE NO.	LITHOLOGY DESCRIPTION					MARKER rec r.g.d. dob	STR	FRAC/m		FRACTURE TYPE AND CHARACTERISTICS
	From	To	Apparent	True		Strat. Lithology	Grain Size	Fresh Colour	Bedding Charact.	Other Sed. Charact.			bd	jt	
						BOX 66									
↑	124.32		0.74			GRSH; carb. pl. rims thru									Solid
			0.59			CRSH; thin intbd FS and VFS, wavy bedding									"
51'			0.77	} 1.56		VFS; intbd CRSH & FS; undulose bedding nrr soft sed def; carb. pl. rims thru									"
			0.79				BOX 67								
↓			0.14			VFS; A/A; carb. pl. fos. & debris thru MR					128.0				Solid 2.97 330 - .51 missing mark.
50'			1.11	} 1.21		VFS; A/A; sof sed def thru									
			0.10				BOX 68								
↓			1.80			VFS; intbd FS w/nrr CRSH; A/A									
47°			1.80			VFS; intbd FS w/nrr CRSH; coal lam @ 1.0 (to 1cm thk), biotb; sof sed def thru.									
↓	130.40		0.04			MR					131.06				3.01 3.05 (.04)

B C N	UNIT		THICKNESS		SAMPLE NO.	LITHOLOGY DESCRIPTION					MARKER rec. r.g.d. d.o.b	STR.	FRAC/m		FRACTURE TYPE AND CHARACTERISTICS
	From	To	Apparent	True		Strat. Lithology	Grain Size	Fresh Colour	Bedding Charact.	Other Sed. Charact.			bd	jt.	
	130.40		0.12	0.61		CrSH; intbd w/ VFS and men FS, carb pl debris								Solid	
			0.49				Box 69								Solid
43°			1.54	1.80		VFS, gradg to FS, intbd w/ CrSH, Fe str bents parallel to bdg; abnt carb pl rims, wavy bedding.								"	
			0.26				Box 70								Solid
			0.58			GRSH; friable, mass, carb.								partly broken	
			(0.06)			M.R.					134.1			2.99 3.05 (-.06)	
			0.37			GRSH; A/A								Solid	
	134.23		0.41			DKGRSH: carb ip, silty								"	

B C N	UNIT		THICKNESS		SAMPLE NO.	LITHOLOGY DESCRIPTION					MARKER rec r.a.d. d.o.b	STR	FRAC/m		FRACTURE TYPE AND CHARACTERISTICS
	From	To	Apparent (m)	True		Strat. Lithology	Grain Size	Fresh Colour	Bedding Charact.	Other Sed Charact.			bd	jt.	
	134.23	134.53	0.30			CrSH, vfs lam, carb thin									Solid
43			0.05			CB-CC									
			0.08			CD overall w/intbd CB lam									partly broken
		134.70	(0.04)			MC									
	134.70		(0.04)			MR			Box 71						
		134.85	0.11			DKSH									solid
	134.85		0.07			CB									mostly solid
			0.08	0.20 CB/CA		CA									partly broken
			0.05			CB									"
			(0.02)			MC									"
			0.05			CA									"
			0.14			CC									"
			0.10			CA									mostly solid
			0.05	0.21 CB/CA		CB									"
		135.47	0.06			CB									"

4085

DRILL CORE LOG



HOLE No. WMD89503

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B C N	UNIT		THICKNESS		SAMPLE NO.	LITHOLOGY DESCRIPTION					MARKER rec r, a, d d, o, b	STR	FRAC/m		FRACTURE TYPE AND CHARACTERISTICS
	From	To	Apparent (m)	True		Strat. Lithology	Grain Size	Fresh Colour	Bedding Charact.	Other Sed. Charact.			bd	jt.	
	135.47		0.04	} 0.12 CB/CC	↑ 4085 ↓	CC								mostly solid	
			0.08			CB									"
			0.07	} 0.16		CA									"
			0.09			CA									"
			0.06	} 0.14 CB/CC		CB									"
(43)			0.08			CC									"
			0.06			CA									"
			0.09	} 0.21 CB/CC		CB									"
			0.10			CB									"
			0.02			CC									"
			0.14		CA									partly bit.	
			(0.03)		MC										
	136.46		0.13		CA										

DRILL CORE LOG



HOLE No. AMD89503
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B C N	UNIT		THICKNESS		SAMPLE NO.	LITHOLOGY DESCRIPTION					MARKER rec r, q, d d o b	STR	FRAC/m		FRACTURE TYPE AND CHARACTERISTICS
	From	To	Apparent	True		Strat Lithology	Grain Size	Fresh Colour	Bedding Charact.	Other Sed Charact.			bd	jt.	
(43)	136.46		0.08	0.28 CA/CB	4085	CB									mostly solid
		136.61	0.07			CA									
(40)	136.61	136.71	0.10			VFS					456/137.2				3.04 3.05 (-.01) solid

B C N	UNIT		THICKNESS		SAMPLE NO.	LITHOLOGY DESCRIPTION					MARKER rec r.g.d. d.o.b	STR	FRAC/m		FRACTURE TYPE AND CHARACTERISTICS
	From	To	Apparent	True		Strat. Lithology	Grain Size	Fresh Colour	Bedding Charact.	Other Sed. Charact.			bd	jt.	
						BOX 72									
	136.71	137.22	0.51			CrSH; intbd VFS								Solid	
40°	137.22		1.14			FS; intbd CrSH + VFS, lower third convoluted bedding								"	
			0.37			CrSH; A/A; s/s along bedding plane, carb pl. mos. thru								"	
						BOX 73									
			0.53			SSH; intbd w/ VFS lam, soft sed def								Solid	
			0.36			VFS; intbd w/ CrSH + SSH, carb debris thru								"	
										140.2			$\frac{3.01}{3.00}$ (4.01)		
			0.21			SSH; A/A; CrSH lam to 5mm at base								"	
			0.45			VFS; intbd SSH + FS								"	
46°	140.70		0.42	0.60		FS; intbd w/ VFS + SSH; hi angle calc fil frac								"	
					e 72°										

3.99
DRILL CORE LOG

Quintette Co. Inc.

HOLE No. QMD89503

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B C N.	UNIT		THICKNESS		SAMPLE NO.	LITHOLOGY DESCRIPTION					MARKER rec. r.g.d. d.o.b.	STR	FRAC/m		FRACTURE TYPE AND CHARACTERISTICS
	From	To	Apparent	True		Strat. Lithology	Grain Size	Fresh Colour	Bedding Charact.	Other Sed. Charact.			bd.	jt.	
	142.55		13	0.37											
			(9)												
			26												
39°			145												
				2.42											
			72												
			25												
35°			28												
				0.36											
			8												
(26)	146.08		27												

Box 75

vfs

MR

as above (vfs)

fs

Box 76

fs interbedded with vfs

fs

vfs interbedded with fs

vfs

ms; carb mat; lam parallel to bedg

710/1.1

3.06
3.05 (+.01)

430/1.6 m

2.96
3.05 (-.09)

B C N.	UNIT		THICKNESS		SAMPLE NO.	LITHOLOGY DESCRIPTION					MARKER rec. r.g.d. d.o.b.	STR.	FRAC/m		FRACTURE TYPE AND CHARACTERISTICS
	From	To	Apparent	True		Strat. Lithology	Grain Size	Fresh Colour	Bedding Charact.	Other Sed. Charact.			bd.	jt.	
	146.08		30	0.00											
									Box 77						
			58												
25°			125						ms; calc-filled frags sub-parallel to bedg; sub ifp; rusty staining						
			11						sah						
			16	0.02					fs gldg to ms						
									Box 78						
16°			26						fs gldg to ms						
			(10)						MR						
			98						fs						
	150.16		34						vfs						

3.18

DRILL CORE LOG



Quintette Coal Limited

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B C N	UNIT		THICKNESS		SAMPLE NO.	LITHOLOGY DESCRIPTION					MARKER rec. r.q.d. d.o.b	STR.	FRAC/m		FRACTURE TYPE AND CHARACTERISTICS
	From	To	Apparent	True		Strat. Lithology	Grain Size	Fresh Colour	Bedding Charact.	Other Sed. Charact.			bd	jt.	
	120.16		12			fs									partly thin
			(4)			MR									"
			4			vfs									"
			25			fs									"
(16)				0.83					Box 79						
			52			fs interbedded with vfs									solid
			31			ms									"
			8			fs									"
			14			ms									"
			17			vfs									"
				0.27											
			10			vfs									solid
	152.63		61	0.76		fs interbedded with vfs									"

2,40

DRILL CORE LOG



HOLE No. DRIT 95 03

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B C N.	UNIT		THICKNESS		SAMPLE NO.	LITHOLOGY DESCRIPTION					MARKER rec. r.q.d. d.o.b	STR.	FRAC/m		FRACTURE TYPE AND CHARACTERISTICS	
	From	To	Apparent	True		Strat. Lithology	Grain Size	Fresh Colour	Bedding Charact.	Other Sed. Charact.			bd.	jt.		
45°	156.40		55	} 0.84												
			51													
			38	} 0.56												
			18													
			32													
			4	} 2.79												
46°	160.41		203													

Box 82

fs; calc-filled frac parallel to beddy

ms

fs

520/1580

3.08
3.05 (+.03)

fs

solid

ms

fs

Box 83

fs; some ssd features; sparse calc-filled
frac subparallel to beddy

solid

Box 84

4.01

DRILL CORE LOG



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B C N	UNIT		THICKNESS		SAMPLE NO.	LITHOLOGY DESCRIPTION					MARKER rec. r.q.d. d.o.b	STR.	FRAC/m		FRACTURE TYPE AND CHARACTERISTICS
	From	To	Apparent	True		Strat. Lithology	Grain Size	Fresh Colour	Bedding Charact.	Other Sed. Charact.			bd	jt.	
	163.08		64	↑ 1.00											
			7												
			53												
			38												
50°			114												
			35												
12°	167.67		68												
			2												
	167.73		4												

as above

Box 86

ms

fs

ms

fs; calc filled frags no specific amount

Box 87

ms; calc filled frags

167.73/167.73

$\frac{3.21}{3.05}$ (+.16)

ssh; calc filled frags (possible low?)

ca

cah.

"

"

54

B C N	UNIT		THICKNESS		SAMPLE NO.	LITHOLOGY DESCRIPTION					MARKER rec. r, a, d d o b	STR	FRAC/m		FRACTURE TYPE AND CHARACTERISTICS	
	From	To	Apparent	True		Strat. Lithology	Grain Size	Fresh Colour	Bedding Charact.	Other Sed. Charact.			bd	jt.		
(12)	167.73		10		4086	dkgrsh									lib	
*		167.95	(12)			MR										"
*	167.95		5			CC										"
			5			CC										partly bit
			3			CB										"
			4	0.29 CB/CC		CC										"
			6			CB										"
			6			CC										parv.
			5			CA										"
(40)			4			CC										"
			18	0.28 CB/CC		CB										"
			6			CC										"
	168.83		(26)		MC						556/1694 m			1.45 1.83	(-38)	

073

DRILL CORE LOG



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B C N	UNIT		THICKNESS		SAMPLE NO.	LITHOLOGY DESCRIPTION					MARKER rec. r.g.d. d.o.b	STR	FRAC/m		FRACTURE TYPE AND CHARACTERISTICS		
	From	To	Apparent	True		Strat. Lithology	Grain Size	Fresh Colour	Bedding Charact.	Other Sed. Charact.			bd	jt.			
	168.83		5	} 0.24 CB/CC	↑ 4086 ↓	CB									Weakly laminar		
			11			CC											bedding planes
			8			CB											"
			10			CA											"
			5			} 0.19 CB/CC	CE										"
(40)			6				CB										
			(11)			MC											"
			5			CC											"
			11			CA											"
			8			CB											"
			7	CA											bedding planes		
	169.70		5		CB												

B C N	UNIT		THICKNESS		SAMPLE NO.	LITHOLOGY DESCRIPTION					MARKER rec. r.a.d. d.o.b	STR	FRAC/m		FRACTURE TYPE AND CHARACTERISTICS	
	From	To	Apparent	True		Strat. Lithology	Grain Size	Fresh Colour	Bedding Charact.	Other Sed. Charact.			bd	jt.		
	169.70		1.2		4086	CB									brkn	
			5	0.54 CA/CB		CA										"
			3			CB										"
			0.6			CA										"
			2			CSH										"
				(18)		MC					560/170-7m				1.04 1.22	(-0.18)
			21			CB										vactly brkn
(40)			2			CA										brkn
			3			CB										"
			1.0	0.69 CA/CB		CA										"
			9		CB										"	
			10		CA										"	
	170.76		5		CB										"	

DRILL CORE LOG

Quintette Coal Limited

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B C N	UNIT		THICKNESS		SAMPLE NO.	LITHOLOGY DESCRIPTION					MARKER rec. r.q.d. d.o.b	STR	FRAC/m		FRACTURE TYPE AND CHARACTERISTICS	
	From	To	Apparent	True		Strat. Lithology	Grain Size	Fresh Colour	Bedding Charact.	Other Sed. Charact.			bd.	jt.		
	170.76		9		4086	CA									lit.	
			3			CC										
62°			4			dksh										mostly soft
(40)			3			CC										
			5			CB										Large con
			4			CA										"
			9	0.37 CA/CB		CB										"
			8			CA										pulverized
			11			CB										"
			5			CC										"
			17	0.32 CB/CC		CB										"
			4			CC										"
	171.64		6		CB										"	

Box 89

B C N	UNIT		THICKNESS		SAMPLE NO.	LITHOLOGY DESCRIPTION					MARKER rec. r.g.d. d.o.b	STR.	FRAC/m		FRACTURE TYPE AND CHARACTERISTICS	
	From	To	Apparent	True		Strat. Lithology	Grain Size	Fresh Colour	Bedding Charact.	Other Sed. Charact.			bd	jt.		
	171.84		15		4086	CA									1.26	
(40)		171.83	4			CC										"
	171.83		6		4067	CD										"
			6			CSH										"
		172.00	(3)			MR										"
	172.00		5			CB										"
		172.13	5.2			CA										"
	172.13		(2)			MR										"
29		172.24	9			dksh										solid
	172.24		4			CB										pulverized
			(4)			MC										"
		172.46	14			CA										"
	172.46		8		CSH										"	
		172.61	(13)		MR										"	
	172.61		9		CA										powder	
		172.92	(14)		MC										2.36 2.74 (-.38)	
															569/1734 m	

DRILL CORE LOG

Quintette Coal Limited

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DRILL CORE LOG

5 1014-19 1989

B C N	UNIT		THICKNESS		SAMPLE NO.	LITHOLOGY DESCRIPTION					MARKER rec. r.q.d. d.o.b	STR	FRAC/m		FRACTURE TYPE AND CHARACTERISTICS	
	From	To	Apparent	True		Strat. Lithology	Grain Size	Fresh Colour	Bedding Charact.	Other Sed. Charact.			bd.	jt.		
	172.92		9		4087	CB									mostly solid	
			9			CA										"
			1			CC										"
			5	0.88 CB/CC		CB										partly like
			2			CC										"
(29)			4			CA										"
			1			CC										mostly solid
			20			CB										"
			11			CA										"
			12	0.93 CA/CB		CB										partly like
	173.71		5			CA										"

-74

DRILL CORE LOG



HOLE No. 4011 89503

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B C N	UNIT		THICKNESS		SAMPLE NO.	LITHOLOGY DESCRIPTION					MARKER rec. r.q.d. d.o.b	STR.	FRAC/m		FRACTURE TYPE AND CHARACTERISTICS	
	From	To	Apparent	True		Strat. Lithology	Grain Size	Fresh Colour	Bedding Charact.	Other Sed. Charact.			bd.	jt.		
	173.71		5		4087	CB									broken	
(29)			12			CA										partly bitn.
			28			CB overall										pulverized
X	174.22		⑥			MC.										
50°	174.22	175.56	134			ms; calc-filled frags parallel to bedding										solid
						Box 91										
X																
32°	175.56		170			ms; calc-filled frags to lam thick										solid
					197											
X						as above										"
X																
30°	179.51		198			ms; calc lam to 75cm; calc-filled frags										solid
						Box 93										

573/174.65

$\frac{1.16}{1.25}$ (-.09)

583/177.7

$\frac{3.04}{3.05}$ (-.01)

