



Bureau Veritas - International Trade Australia
Brisbane Exploration Laboratory
221 Leitchs Rd
BRENDALE QLD 4500
Phone: + 61
www.bureauveritas.com.au

ORIGIN : Central Petroleum
DESCRIPTION : CBM 107-001
REPORTED TO : Mr Michael Clarke

BV REF No. : BR2001190
DATE REC'D : 19/07/2010
Date Reported : 6/08/2010

BOREHOLE CBM 107-001
RAW COAL ANALYSIS

Plies : Sample 2

BV Sample Number : E32413

Analysis Basis		(ad)	(db)	(daf)
Proximate Analysis				
Air Dried Moisture	(%)	13.2		
Ash	(%)	6.9	7.9	
Volatile Matter	(%)	30.7	35.4	38.4
Fixed Carbon	(%)	49.2	56.7	61.6
Total Sulfur	(%)	0.34	0.39	
Gross Calorific Value				
(MJ/kg)		25.19	29.02	31.53
(kcal/kg)		6016	6932	7530
Ultimate Analysis				
Carbon	(%)	63.5	73.1	79.4
Hydrogen	(%)	3.75	4.32	4.69
Nitrogen	(%)	1.26	1.45	1.58
Oxygen (by difference)	(%)	11.08	12.76	
Hardgrove Grindability Index		72		

Analysed at BV Newcastle in accordance with Australian Standard Methods AS1038.3, AS1038.5, S1038.6.3.3, AS1038.6.4 (draft), AS1038.11, AS1038.14.3, AS1038.20, AS1038.21.1.1, AS1038.23 and AS4264.

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Ash Fusion Temperatures		(Reducing Atm)
Deformation	(°C)	1240
Sphere	(°C)	1260
Hemisphere	(°C)	1300
Flow	(°C)	1340

Ash Composition			(%db)
Silicon	as	SiO ₂	47.0
Aluminium	as	Al ₂ O ₃	18.9
Iron	as	Fe ₂ O ₃	18.2
Calcium	as	CaO	4.3
Magnesium	as	MgO	1.1
Sodium	as	Na ₂ O	2.6
Potassium	as	K ₂ O	3.6
Titanium	as	TiO ₂	1.1
Manganese	as	Mn ₃ O ₄	0.43
Phosphorus	as	P ₂ O ₅	0.09
Sulfur	as	SO ₃	3.4
Strontium	as	SrO	0.09
Barium	as	BaO	<0.02
Zinc	as	ZnO	0.02
Vanadium	as	V ₂ O ₅	0.02

Slagging Index	(Base/Acid x S)	0.173
Fouling Index	(Base/Acid x Na ₂ O)	1.156

" The results of an ash analysis do not necessarily total 100.0% "

Ash Analysis performed at BV Newcastle by XRF.

Analysed at BV Newcastle in accordance with Australian Standard Methods

AS1038.14.3, AS1038.15 and AS4264.1.