



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 3

BV Sample Number: E32414

Analysis Basis		(ad)	(db)	(daf)
Proximate Analysis				
Air Dried Moisture	(%)	9.2		
Ash	(%)	7.7	8.5	
Volatile Matter	(%)	30.1	33.1	36.2
Fixed Carbon	(%)	53.0	58.4	63.8
Total Sulfur	(%)	0.32	0.35	
Gross Calorific Value				
(MJ/kg)		27.36	30.13	32.92
(kcal/kg)		6534	7196	7862
Ultimate Analysis				
Carbon	(%)	67.8	74.7	81.6
Hydrogen	(%)	3.95	4.35	4.75
Nitrogen	(%)	1.29	1.42	1.55
Oxygen (by difference)	(%)	9.72	10.70	
Hardgrove Grindability Index		85		

Analysed at BV Brisbane in accordance with Australian Standard Methods AS1038.3, AS1038.5, 1038.6.3.3, 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)	1320
Sphere	(°C)	1340
Hemisphere	(°C)	1400
Flow	(°C)	1500

Ash Composition		(%db)
Silicon	as SiO ₂	53.7
Aluminium	as Al ₂ O ₃	28.5
Iron	as Fe ₂ O ₃	6.1
Calcium	as CaO	1.8
Magnesium	as MgO	0.89
Sodium	as Na ₂ O	2.2
Potassium	as K ₂ O	5.3
Titanium	as TiO ₂	1.0
Manganese	as Mn ₃ O ₄	0.17
Phosphorus	as P ₂ O ₅	0.14
Sulfur	as SO ₃	0.84
Strontium	as SrO	0.06
Barium	as BaO	<0.02
Zinc	as ZnO	0.02
Vanadium	as V ₂ O ₅	0.02

Slagging Index	(Base/Acid x S)	0.069
Fouling Index	(Base/Acid x Na ₂ O)	0.431

" 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.