



Bureau Veritas - International Trade Australia  
Brisbane Exploration Laboratory  
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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 1

BV Sample Number: E32412

<b>Analysis Basis</b>		(ad)	(db)	(daf)
<b>Proximate Analysis</b>				
Air Dried Moisture	(%)	12.9		
Ash	(%)	19.7	22.6	
Volatile Matter	(%)	25.8	29.6	38.3
Fixed Carbon	(%)	41.6	47.8	61.7
<b>Total Sulfur</b>	(%)	0.41	0.47	
<b>Gross Calorific Value</b>				
(MJ/kg)		20.44	23.47	30.33
(kcal/kg)		4882	5606	7244
<b>Ultimate Analysis</b>				
Carbon	(%)	52.1	59.9	77.4
Hydrogen	(%)	3.04	3.49	4.51
Nitrogen	(%)	0.99	1.14	1.47
Oxygen (by difference)	(%)	10.82	12.42	
<b>Hardgrove Grindability Index</b>		81		

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



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<b>Ash Fusion Temperatures</b>		(Reducing Atm)
Deformation	(°C)	1340
Sphere	(°C)	1380
Hemisphere	(°C)	1400
Flow	(°C)	1440

<b>Ash Composition</b>		(%db)
Silicon	as SiO <sub>2</sub>	63.8
Aluminium	as Al <sub>2</sub> O <sub>3</sub>	19.2
Iron	as Fe <sub>2</sub> O <sub>3</sub>	4.7
Calcium	as CaO	2.8
Magnesium	as MgO	1.1
Sodium	as Na <sub>2</sub> O	0.66
Potassium	as K <sub>2</sub> O	2.0
Titanium	as TiO <sub>2</sub>	2.0
Manganese	as Mn <sub>3</sub> O <sub>4</sub>	0.06
Phosphorus	as P <sub>2</sub> O <sub>5</sub>	0.32
Sulfur	as SO <sub>3</sub>	2.2
Strontium	as SrO	0.14
Barium	as BaO	0.04
Zinc	as ZnO	0.02
Vanadium	as V <sub>2</sub> O <sub>5</sub>	0.03

<b>Slagging Index</b>	(Base/Acid x S)	0.062
<b>Fouling Index</b>	(Base/Acid x Na <sub>2</sub> O)	0.087

" 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.

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