



COAL ANALYSIS FINAL REPORT
of
SHEL 27 109-1 and SHEL 27 109-2
for
METTS Pty Ltd – CENTRAL PETROLEUM
by
WEATHERFORD LABORATORIES (AUSTRALIA) PTY LTD

7th April, 2010

METTS Pty Ltd
PO Box 843
HELENSVALE QLD 4212

Attention: Michael Clarke

COAL ANALYSIS - FINAL REPORT 0102-07

SHEL 27 109-1 and SHEL 27 109-2

Please find enclosed final results of the coal study for the samples taken from the above well.

If Weatherford Laboratories can assist you in any way, or if you require any further information, please do not hesitate to contact the undersigned.



NICK ROBSON
CBM Operations Leader

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SUMMARY

This report outlines the methods and results of coal testing and property analyses performed on 40 coal samples provided by Michael Clarke from METTS Pty Ltd in March, 2011.

The table below shows the sample manifest and the analysis require for each sample.

TEST SCHEDULE

Client:
Well/Project:
File No:

METTS Pty Ltd
SHEL 27 109-1 and SHEL 27 109-2
0102-07

F = failed
C = cancelled
X = selected

Sample	Well	Depth	Test Sequence																			
			Proximate Analysis	Ultimate Analysis	Calorific Value	Maceral Analysis	Vitrinite Reflectance	Crucible Swell Number	Hardgrove Grindability Index	Ash Fusion Temperature	Heavy Metal Analysis	Chlorine Content										
1	SHEL 27 109-1	741.00	X	X																		
2		741.40																				
3		743.00																				
4		751.40																				
5		753.10																				
6		759.40																				
7		770.00	X	X	X	X	X	X	X	X												
8		772.00																				
9		774.00																				
10		776.00																				
11		778.00																				
12		780.00																				
13		782.00	X	X																		
14		784.00																				
15		798.40																				
16		800.00																				
17		802.00																				
18		804.00																				
19		806.70																				
20		833.00	X	X																		
21		835.00																				
22		837.60																				
23		941.00																				
24		943.00																				
25		945.00																				
26		947.00	X	X					X	X												
27		949.00																				
28		951.00																				
29		953.00																				
30		994.00																				
31		996.00	X	X																		
32		998.60																				
33		1019.00																				
34		1021.00																				
35		1032.00																				
36		1034.80																				
37	SHEL 27 109-2	884.00	X	X	X	X	X	X	X	X	X											
38		885.50																				
39		905.00	X	X																		
40		1069.00																				
		Total	9	9	4	4	4	4	3	3	4	4										

CHAPTER 1

DESCRIPTION OF EXPERIMENTS

1. DESCRIPTION OF EXPERIMENTS

1.1 Proximate Analysis

A representative sub-sample of coal was removed from each desorption canister for proximate analysis. This sampling strategy was designed to:

- a) Calculate gas contents on a DAF basis for comparison purposes
- b) Determine the factors controlling variations in in-situ gas contents within a given seam

Every attempt was made to exclude all non-coal material from proximate analysis sampling, on the basis that these rocks did not contribute to the overall gas content of the coal seam in question.

The testing procedure adopted throughout for proximate analysis conformed to the appropriate Australian Standard for coal analysis and testing (AS 1038.3-1989). In summary, this procedure involved the drying of a known mass of coal in an oxygen-free (nitrogen flush) oven at 105-110°C for a period of between 1.5 to 3 hours. After removal from the oven, and subsequent to the sample being placed in a desiccator, the coal was weighed, and the loss of mass ascribed to inherent moisture.

The sample was then heated in a cylindrical silica crucible in a muffle furnace at 900°C for seven minutes. The loss of mass recorded during this process equated to the proportion of volatile matter present in the sample. Determination of ash content was achieved by combusting the coal until a constant mass was attained. This was achieved by heating the sample to 500°C for 30 minutes before increasing the temperature to 815°C, until combustion was complete. The percentage of ash was calculated from the mass of the residue remaining after incineration. The amount of fixed carbon was not determined directly, but represented the difference between the sum of all other components.

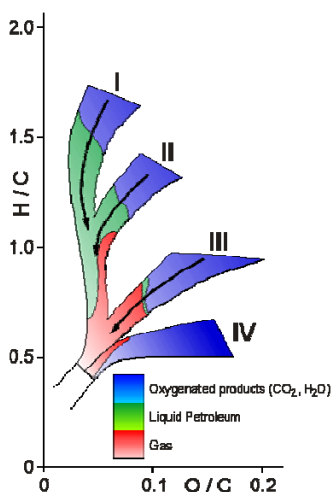
1.2 Ultimate Analysis

A representative sub-sample of coal was removed from each desorption canister for ultimate analysis. Every attempt was made to exclude all non-coal material from ultimate analysis sampling, on the basis that these rocks did not contribute to the overall gas content of the coal seam in question.

Ultimate analysis provides the elemental composition of oxygen, carbon, hydrogen, sulfur, and nitrogen. ASTM standards presents the standard method for ultimate analysis as procedure, it specifies that carbon and hydrogen of the coal will be determined from the gaseous products of the material's complete combustion. The total sulfur, nitrogen and ash are to be determined from the entire material in separate calculations.

For lack of a suitable test for oxygen, its percentage content in the coal is determined by subtracting from 100 the sum of the percentages of the other components. A small

error is taken for granted but cannot be compensated for in the procedure because some hydrogen and oxygen will be derived from the bound water of clay, shale, or carbonate impurities in the coal. The elemental analysis of coal obtained by this procedure, when converted from a weight basis to a mole basis, provides the ratios of O/C and H/C used in the van Krevelen diagram to define the maturation state of coal.



1.3 Maceral and Vitrinite Reflectance Analysis

Organic Petrography is the examination of organic matter in any sedimentary rocks under a reflected polarized light and fluorescence mode microscopy. The selected or received samples is crushed, sieved to +1mm and sub-sampled using a ripple splitter. The sample is mounted in cold setting polyester resin and polished by a series of polishing paper through the use of an automated machine.

A maceral is the microscopic recognizable constituents of organic matter that can be recognize through its shape, morphology, reflectance and fluorescence. Maceral analysis is done through a prepared polished block section, by point counting the different maceral subgroups, based on guidelines of ICCP classification and AS2856. A minimum of 500 points are counted and the results are reported on a percentage volume basis.

Vitrinite Reflectance (VR) is the most commonly used organic maturation indicator of organic matter in any sedimentary rocks. As coal rank increase, the chemical composition of the vitrinite correspondingly changes, the vitrinite macerals become increasingly reflective. Therefore, percentage reflection of a beam of normal incident white light from the surface of polished vitrinite is a function of the rank (maturity) of the maceral. The reflectivity (R) may either be recorded as RV max% or Ro%. Both are measurements of the percentage of light reflected from the sample, calibrated against a material with a known reflectivity value expressed in percent (%). A minimum of fifty (50) readings is measured to have a precise mean maximum reflectance value. Vitrinite reflectance report presents a histogram of the population and the statistical analysis of the sample.

CHAPTER 2

PROXIMATE ANALYSIS

PROXIMATE ANALYSIS

Company: METTS/Central Petroleum
Well: SHEL 27 109

Date: 17/03/2011
File: 0102-07

Well Name	Sample Number	Top Depth	Bottom Depth	Inherent Moisture	Ash	Volatile Matter	Fixed Carbon
		(m)	(m)	(%)	(%)	(%)	(%)
SHEL 27 109-1	1	741.00	759.40	10.0	14.1	28.2	47.7
SHEL 27 109-1	2	770.00	770.00	10.8	14.7	23.7	50.8
SHEL 27 109-1	3	798.40	806.70	9.4	19.3	23.3	48.0
SHEL 27 109-1	4	833.00	837.60	9.6	17.2	25.5	47.7
SHEL 27 109-1	5	941.00	953.00	9.3	8.1	30.8	51.8
SHEL 27 109-1	6	994.00	998.60	8.3	11.9	26.8	53.0
SHEL 27 109-1	7	1019.00	1034.80	7.1	16.0	33.2	43.7
SHEL 27 109-2	8	884.00	885.50	10.8	11.1	24.1	54.0
SHEL 27 109-2	9	905.00	1069.00	8.8	7.4	29.0	54.8

Note. All results reported to air dried basis (a.d.) unless noted.

CHAPTER 3
ULTIMATE ANALYSIS

ULTIMATE ANALYSIS

Company: METTS/Central Petroleum
Well: SHEL 27 109

Date: 17/03/2011
File: 0102-07

Well Name	Sample Number	Top Depth	Bottom Depth	Carbon	Hydrogen	Nitrogen	Sulfur	Oxygen
		(m)	(m)	(% d.a.f)	(% d.a.f)	(% d.a.f)	(% d.a.f)	(% d.a.f)
SHEL 27 109-1	1	741.00	759.40	77.4	4.66	1.72	0.96	15.3
SHEL 27 109-1	2	770.00	770.00	78.6	4.14	1.66	0.67	14.9
SHEL 27 109-1	3	798.40	806.70	79.1	44.80	1.67	0.35	14.4
SHEL 27 109-1	4	833.00	837.60	79.2	4.70	1.71	0.55	13.8
SHEL 27 109-1	5	941.00	953.00	81.2	4.93	1.57	0.57	11.7
SHEL 27 109-1	6	994.00	998.60	82.5	4.71	1.54	0.29	11.0
SHEL 27 109-1	7	1019.00	1034.80	82.0	5.53	1.59	0.38	10.5
SHEL 27 109-2	8	884.00	885.50	79.4	4.17	1.65	0.35	14.4
SHEL 27 109-2	9	905.00	1069.00	80.7	4.58	1.60	0.31	12.8

Note: All results reported to air dried basis unless otherwise noted. Oxygen by difference.

d.a.f. = dry ash free basis

CHAPTER 4
CALORIFIC VALUE

CALORIFIC VALUE

Company: METTS/Central Petroleum
Well: SHEL 27 109

Date: 22/03/2011
File: 0102-07

Well Name	Sample Number	Top Depth	Bottom Depth	Calorific Value	
		(m)	(m)	(MJ/kg)	(kcal/kg)
SHEL 27 109-1	1	741.00	784.00	23.56	5628
SHEL 27 109-1	2	798.40	837.60	23.07	5510
SHEL 27 109-1	3	941.00	1034.80	26.54	6338
SHEL 27 109-2	4	884.00	1069.00	25.60	6114

Note. All results reported to air dried basis (a.d.) unless noted.

CHAPTER 5

CRUCIBLE SWELL NUMBER, CHLORINE CONTENT and HEAVY METAL ANALYSIS

***CRUCIBLE SWELL NUMBER, CHLORINE CONTENT and
HEAVY METAL ANALYSIS***

Company: METTS/Central Petroleum
Well: SHEL 27 109

Date: 17/03/2011
File: 0102-07

Well Name	Sample Number	Top Depth	Bottom Depth	Arsenic	Cadmium	Mercury	Copper	Zinc	Chlorine	Crucible Swell Number
		(m)	(m)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(%)	
SHEL 27 109-1	1	741.00	784.00	0.4	0.01	0.04	11	11	0.25	0.0
SHEL 27 109-1	2	798.40	837.60	0.6	0.04	0.04	19	28	0.27	0.0
SHEL 27 109-2	3	941.00	1034.80	0.8	0.02	0.04	13	9	0.24	0.0
SHEL 27 109-2	4	884.00	1069.00	0.3	0.02	0.01	10	12	0.23	0.0

Note. All results reported to air dried basis (a.d.) unless noted.

CHAPTER 6

HARDGROVE GRINDABILITY INDEX and ASH FUSION TEMPERATURE - REDUCING

***HARDGROVE GRINDABILITY INDEX and
ASH FUSHION TEMPERATURE - REDUCING***

Company: METTS/Central Petroleum
Well: SHEL 27 109

Date: 17/03/2011
File: 0102-07

Well Name	Sample Number	Top Depth	Bottom Depth	Deformation	Spherical	Hemispherical	Flow	Hardrove Grindability Index
		(m)	(m)	(°C)	(°C)	(°C)	(°C)	
SHEL 27 109-1	1	741.00	784.00	1290	1310	1330	1440	98.0
SHEL 27 109-1	2	798.40	1034.80	1440	1540	1550	>1550	66.0
SHEL 27 109-2	3	905.00	1069.00	1260	1300	1330	1460	77.0

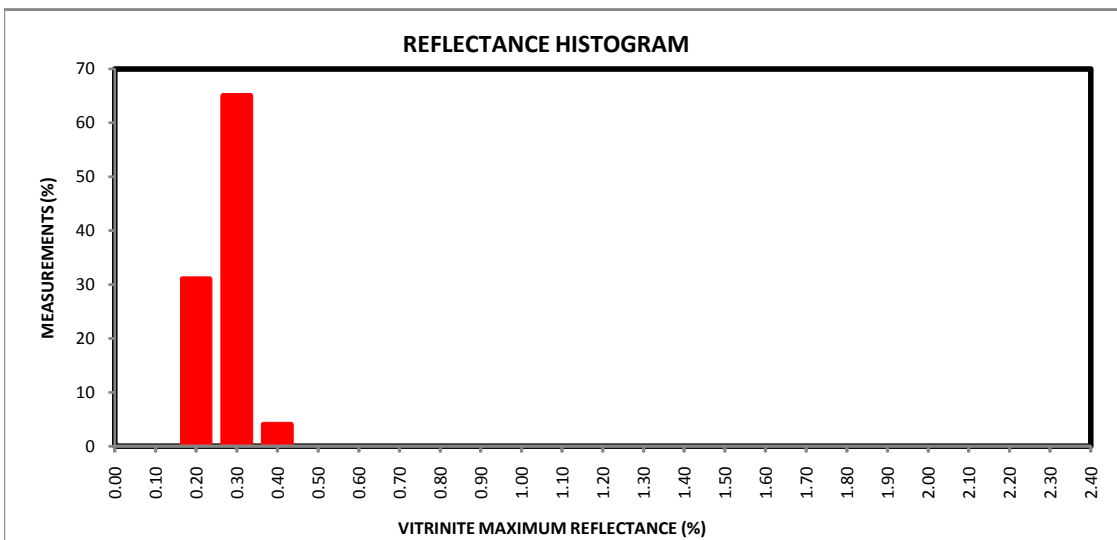
Note. All results reported to air dried basis (a.d.) unless noted.

CHAPTER 7

MACERAL and VITRINITE REFLECTANCE ANALYSIS

COAL PETROGRAPHY – VITRINITE REFLECTANCE

Client: CENTRAL PETROLEUM
Well Name: SHEL 27 109-1
Sample No: RANK #1
Sample Details: 741 m - 784 m
Date Reported: 17/3/2011



	Mean Max. Reflectance (R _{max} %)	Min. Reflectance (%)	Max. Reflectance (%)	Standard Deviation (σ)	No. of Measurements	Calc. Random Reflectance (R _r %)
Telovitrinite	0.35	0.26	0.45	0.04	95	0.33
Detrovitrinite	0.32	0.28	0.37	0.04	5	0.30
All Vitrinite	0.35	0.26	0.45	0.04	100	0.33

REFLECTANCE DISTRIBUTION

V - Steps	V2	V3	V4	V5	V6	V7	V8	V9	V10	V11	V12
Telovitrinite (%)	28	63	4								
Detrovitrinite (%)	3	2									
All Vitrinite (%)	31	65	4								

V - Steps	V13	V14	V15	V16	V17	V18	V19	V20	TOTAL
Telovitrinite (%)									95
Detrovitrinite (%)									5
All Vitrinite (%)									100

Vitrinite Reflectance Analysis in accordance with ISO 7404-5.

ICCP Accredited for Maceral Analysis and Vitrinite Random Reflectance Analysis.

Certificate No.ICCP/SCAP-012/AB

Reported by: *Thing Opinel*
 Report No. **WL0015**

COAL PETROGRAPHY – MACERAL ANALYSIS

Client: **CENTRAL PETROLEUM**
 Well Name: **SHEL 27 109-1**
 Sample No: **RANK #1**
 Sample Details: **741 m - 784 m**
 Date: **16/01/1900**

Maceral Group	Volume (%)	Volume (%) (mmf)	Subgroup	Maceral	Volume (%)	Volume (%) (mmf)
VITRINITE	24.6	28.6	Telovitrinite	Textinite Textu-ulminite Eu-ulminite Telecollinite	21.0	24.4
			Detrovitrinite	Attrinite Densinite Desmocollinite	3.4	4.0
			Gelovitrinite	Corpogelinite Porogelinite Eugelinite	0.2	0.2
LIPTINITE	2.2	2.6		Sporinite Cutinite Resinite Liptodetrinite Alginate Suberinite Fluorinite Exsudante Bituminite	2.2	2.6
INERTINITE	59.2	68.8	Telo-inertinite	Fusinite Semifusinite Funginite	2.8 46.8	3.3 54.4
			Detro-inertinite	Inertodetrinite Micrinite	8.8 0.6	10.2 0.7
			Gelo-inertinite	Macrinite	0.2	0.2
MINERALS	14.0				14.0	
TOTAL	100	100			100	100
TOTAL POINTS COUNTED		500				

Comments: Minerals mainly disseminated clay and carbonates, minor shale.

Maceral Analysis based on ICCP classification and AS2856.

ICCP Accredited for Maceral Analysis and Vitrinite Random Reflectance Analysis.

Certificate No.ICCP/SCAP-012/AB

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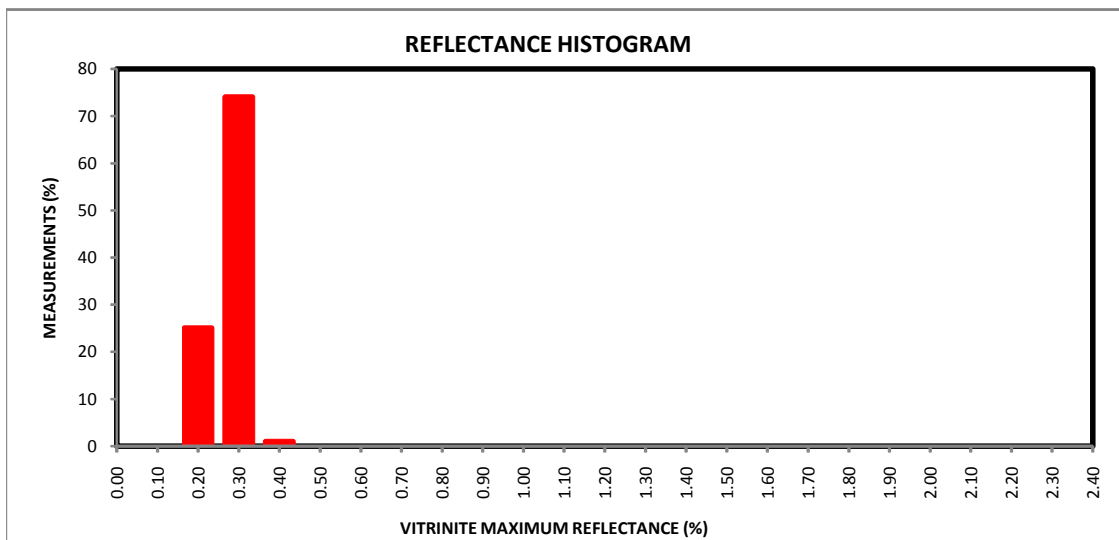


Report No.

WL0015

COAL PETROGRAPHY – VITRINITE REFLECTANCE

Client: CENTRAL PETROLEUM
 Well Name: SHEL 27 109-1
 Sample No: RANK #2
 Sample Details: 798.40m -837.60m
 Date Reported: 17/03/2011



	Mean Max. Reflectance (Rmax%)	Min. Reflectance (%)	Max. Reflectance (%)	Standard Deviation (σ)	No. of Measurements	Calc. Random Reflectance (R_r %)
Telovitrinite	0.36	0.26	0.44	0.04	100	0.33
Detrovitrinite						
All Vitrinite	0.36	0.26	0.44	0.04	100	0.33

REFLECTANCE DISTRIBUTION

V - Steps	V2	V3	V4	V5	V6	V7	V8	V9	V10	V11	V12
Telovitrinite (%)	25	74	1								
Detrovitrinite (%)											
All Vitrinite (%)	25	74	1								

V - Steps	V13	V14	V15	V16	V17	V18	V19	V20	TOTAL
Telovitrinite (%)									100
Detrovitrinite (%)									0
All Vitrinite (%)									100

Vitrinite Reflectance Analysis in accordance with ISO 7404-5.

ICCP Accredited for Maceral Analysis and Vitrinite Random Reflectance Analysis.

Certificate No.ICCP/SCAP-012/AB

Reported by: *Thing Osmel*

Report No.

WL0016

COAL PETROGRAPHY – MACERAL ANALYSIS

Client: **CENTRAL PETROLEUM**
 Well Name: **SHEL 27 109-1**
 Sample No: **RANK #2**
 Sample Details: **798.40 m - 837.60 m**
 Date: **16/01/1900**

Maceral Group	Volume (%)	Volume (%) (mmf)	Subgroup	Maceral	Volume (%)	Volume (%) (mmf)	
VITRINITE	21.6	24.1	Telovitrinite	Textinite	18.0	20.1	
				Textu-ulminite			
				Eu-ulminite			
				Telecollinite			
			Detrovitrinite	Attrinite	2.5	2.8	
				Densinite			
				Desmocollinite			
			Gelovitrinite	Corpogelinite	1.0	1.1	
				Porigelinite			
Eugelinite							
LIPTINITE	2.4	2.6		Sporinite	2.4	2.6	
				Cutinite			
				Resinite			
				Liptodetrinite			
				Alginite			
				Suberinite			
				Fluorinite			
				Exsudante			
				Bituminite			
				INERTINITE			65.7
Semifusinite							
Funginite							
Detro-inertinite	Inertodetrinite	12.7	14.2				
	Micrinite				0.4		
					0.4		
Gelo-inertinite	Macrinite						
MINERALS	10.4					10.4	
TOTAL	100	100			100	100	
TOTAL POINTS COUNTED		510					

Comments: Minerals mainly disseminated clay and carbonates, minor shale.

Maceral Analysis based on ICCP classification and AS2856.

ICCP Accredited for Maceral Analysis and Vitrinite Random Reflectance Analysis.

Certificate No.ICCP/SCAP-012/AB

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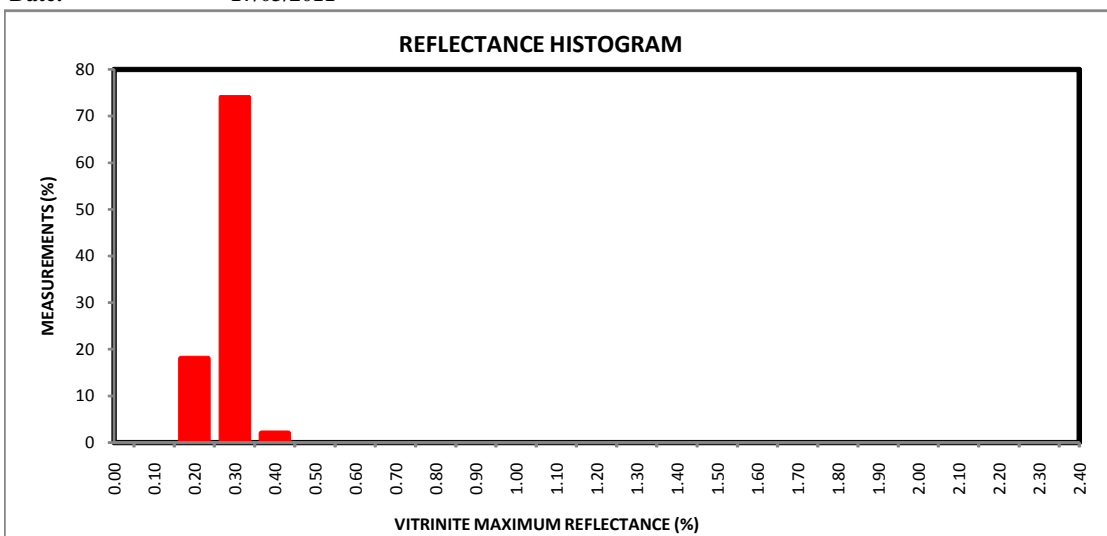


Report No.

WL0016

COAL PETROGRAPHY – VITRINITE REFLECTANCE

Client: CENTRAL PETROLEUM
Well Name: SHEL 27 109-1
Sample No: RANK #3
Sample Details: 941m - 1034.80m
Date: 17/03/2011



	Mean Random Reflectance (R _r %)	Min. Reflectance (%)	Max. Reflectance (%)	Standard Deviation (σ)	No. of Measurements	Calc. Mean Max. Reflectance (R _{max} %)
All Vitrinite	0.36	0.26	0.45	0.04	100	0.34

REFLECTANCE DISTRIBUTION

V - Steps	V2	V2	V2.5	V3	V3.5	V4	V4.5	V5	V5.5	V6	V6.5
All Vitrinite (%)	20	78	2								

V - Steps	V7	V7.5	V8	V8.5	V9	V9.5	V10	V10.5	TOTAL
All Vitrinite (%)									100

Vitrinite Reflectance Analysis in accordance with ISO 7404-5.

ICCP Accredited for Maceral Analysis and Vitrinite Random Reflectance Analysis.

Certificate No.ICCP/SCAP-012/AB

Reported by: *Wing O'Connell*

Report No. **WL0017**

COAL PETROGRAPHY – MACERAL ANALYSIS

Client: **CENTRAL PETROLEUM**
 Well Name: **SHEL 27 109-1**
 Sample No: **RANK #3**
 Sample Details: **941m - 1034.80m**
 Date: **17/02/2011**

Maceral Group	Volume (%)	Volume (%) (mmf)	Subgroup	Maceral	Volume (%)	Volume (%) (mmf)
VITRINITE	29.1	30.6	Telovitrinite	Textinite	25.0	26.3
				Textu-ulminite		
				Eu-ulminite		
				Telecollinite		
			Detrovitrinite	Attrinite	3.7	3.9
				Densinite		
				Desmocollinite		
LIPTINITE	7.7	8.1	Gelovitrinite	Corpogelinite	0.4	0.4
				Porigelinite		
				Eugelinite		
				Sporinite	6.7	7.0
				Cutinite		
				Resinite		
				Liptodetrinite		
				Alginite		
				Suberinite		
				Fluorinite		
				Exsudante		
				Bituminite		
			Telo-inertinite	Fusinite	2.4	2.5
				Semifusinite		
				Funginite		
INERTINITE	58.3	61.3	Detro-inertinite	Inertodetrinite	11.8	12.4
				Micrinite		
			Gelo-inertinite	Macrinite		
MINERALS	4.9				4.9	
TOTAL	100	100			100	100
TOTAL POINTS COUNTED		508				

Comments: Minerals mainly disseminated clay and carbonates, minor shale.

Maceral Analysis based on ICCP classification and AS2856.

ICCP Accredited for Maceral Analysis and Vitrinite Random Reflectance Analysis.

Certificate No.ICCP/SCAP-012/AB

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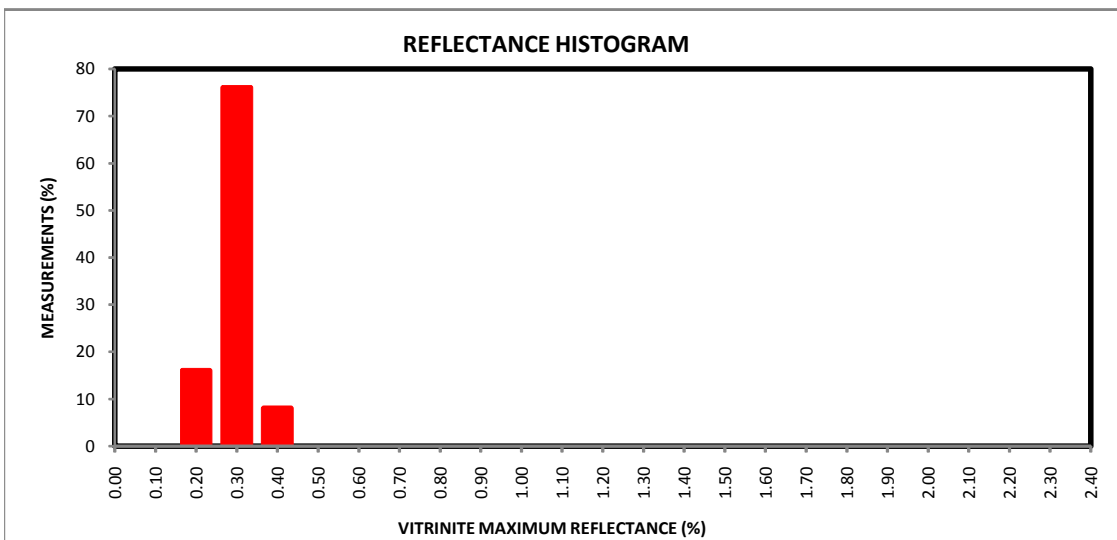


Report No.

WL0017

COAL PETROGRAPHY – VITRINITE REFLECTANCE

Client: CENTRAL PETROLEUM
Well Name: SHEL 27 109-2
Sample No: RANK #4
Sample Details: 884m - 1069m
Date: 17/03/2011



	Mean Max. Reflectance (R _{max} %)	Min. Reflectance (%)	Max. Reflectance (%)	Standard Deviation (σ)	No. of Measurements	Calc. Random Reflectance (R _r %)
Telovitrinite	0.37	0.29	0.45	0.04	95	0.35
Detrovitrinite	0.30	0.26	0.33	0.03	5	0.28
All Vitrinite	0.37	0.26	0.45	0.04	100	0.35

REFLECTANCE DISTRIBUTION

V - Steps	V2	V3	V4	V5	V6	V7	V8	V9	V10	V11	V12
Telovitrinite (%)	12	75	8								
Detrovitrinite (%)	4	1									
All Vitrinite (%)	16	76	8								

V - Steps	V13	V14	V15	V16	V17	V18	V19	V20	TOTAL
Telovitrinite (%)									95
Detrovitrinite (%)									5
All Vitrinite (%)									100

Vitrinite Reflectance Analysis in accordance with ISO 7404-5.

ICCP Accredited for Maceral Analysis and Vitrinite Random Reflectance Analysis.

Certificate No.ICCP/SCAP-012/AB

Reported by: *Thing Opinel*
 Report No. **WL0018**

COAL PETROGRAPHY – MACERAL ANALYSIS

Client: **CENTRAL PETROLEUM**
 Well Name: **SHEL 27 109-2**
 Sample No: **RANK #4**
 Sample Details: **884m - 1069m**
 Date: **17/02/2011**

Maceral Group	Volume (%)	Volume (%) (mmf)	Subgroup	Maceral	Volume (%)	Volume (%) (mmf)
VITRINITE	21.8	22.4	Telovitrinite	Textinite	17.0	17.6
				Textu-ulminite		
				Eu-ulminite		
				Telecollinite		
			Detrovitrinite	Attrinite	4.4	4.5
				Densinite		
				Desmocollinite		
			Gelovitrinite	Corpogelinite	0.4	0.4
				Porigelinite		
Eugelinite						
LIPTINITE	1.2	1.2		Sporinite	1.2	1.2
				Cutinite		
				Resinite		
				Liptodetrinite		
				Alginate		
				Suberinite		
				Fluorinite		
				Exsudante		
				Bituminite		
INERTINITE	74.1	76.3	Telo-inertinite	Fusinite	55.6	57.3
				Semifusinite		
				Funginite		
			Detro-inertinite	Inertodetrinite	11.3	11.6
				Micrinite		
			Gelo-inertinite	Macrinite		
MINERALS	3.0				3.0	
TOTAL	100	100			100	100
TOTAL POINTS COUNTED		505				

Comments: Minerals mainly disseminated clay and carbonates, minor shale.

Maceral Analysis based on ICCP classification and AS2856.

ICCP Accredited for Maceral Analysis and Vitrinite Random Reflectance Analysis.

Certificate No.ICCP/SCAP-012/AB

Reported by:



Report No.

WL0018