

Accreditation No 2013



Santos Limited GPO Box 2319 ADELAIDE SA 5000 Australia

Attention: Noel Dowdell

Project 08PEAD0018628 Client Ref: 849485-101

Customer Sample ID		West Mereenie			
Data Campled		14			
Date Sampled		21/05/2008 1405-1435h			
Time Sampled Pressure		1819kPag			
Temperature		30°C			
Cylinder ID		JPE802			
Test/Reference	Unit				
Hydrotesting Cyl					
Hydrotesting*		Pass			
GAS ANALYSIS					
Test/Reference	Unit				
Gas Analysis ASTM D 1945-96 (modified)					
Nitrogen	Mol %	9.34			
Carbon Dioxide	Mol %	0.04			
Methane	Mol %	70.22			
Ethane	Mol %	12.45			
Propane	Mol %	4.67			
I-Butane	Mol %	0.51			
N-Butane	Mol %	1.36			
I-Pentane	Mol %	0.37			
N-Pentane	Mol %	0.43			
Hexanes	Mol %	0.37			
Heptanes	Mol %	0.17			
Octanes and higher hydrocarbons	Mol %	0.07			
Total	Mol %	100.00			
Gas Parameters ASTM D 1945-96 (modified)					
Average Molecular Weight		21.94			
Lower Flammability Limit		4.34			
Upper Flammability Limit		15.33			
Ratio Of Upper To Lower		3.53			
Wobbe Index		50.25			
Compressibility Factor (Z)		0.9968			
Ideal Gas Density (Rel to Air = 1)		0.757			
Real Gas Density (Rel to Air = 1)		0.760			
Ideal Nett Calorific Value	MJ/m³	39.69			
Ideal Gross Calorific Value	MJ/m³	43.73			
Real Nett Calorific Value	MJ/m³	39.81			
Real Gross Calorific Value	MJ/m³	43.87			
Gross Calorific Val Water-Sat Gas	MJ/m³	42.97			
Test Description					
Gas Parameters	The above results are calculated on an air and water free basis assuming only the measured constituents are present. The following parameters are calculated from the above composition at 15°C and 101.325 kPa (abs) using ISO 6976 and the physical constants from the GPSA SI Engineering Data Handbook 11 th Ed.				

Final Report Number: 325326



Authorised By

Michelle Fordham Chemist Accreditation No 2013

Laboratory Manager

Diane Cass Operations Manager

Mass

Final Report

- Indicates Not Requested * Indicates NATA accreditation does not cover the performance of this service

Samples will be discarded after 30 days unless otherwise notified.

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NATIO	Date of Test: $8/08$						
SERVICES 1 ELLEMSEA CCT. LONSDALE SA 5160 PH 8326 7755 MOBILE 0418 804 144					Previous Test Date: Reference Temperature: /4		
TESTED IN COMPLIANCE WITH AS2030.1	RTIFICA	TE OF TEST 2	2959	0	S.A.Á. APPROVE	ED ATION No.: 308A	
Client: AMDEL			Seria	l No.:	AA03	13	
Specification No.: Do	OT 3E 1800						
Water Capacity:	·5L	Test Pressure: 2925 PS1		Working	Pressure:	1800 PS/	
Condition: External	Condition: Internal	HYDROSTATIC/VISUAL TEST RESULT: Passed	W	WEIGHT TEST: Passed			
Good	G00d	Recommendation or Remarks:					
Average	Average					4	
Poor	Poor						
Approved Signatory:		A					