

# **APPENDIX E**



5.  
Amdel Limited  
A.C.N. 008 127 802

Petroleum Services  
PO Box 338  
Torrensville Plaza SA 5031

Telephone: (08) 416 5240  
Facsimile: (08) 234 2933

31 December 1994

Magellan Petroleum Australia Pty Ltd  
PO Box 413  
ALICE SPRINGS NT 0871

Attention: Tony Morozak-Smith

REFER TO	SEEN BY
<i>MD</i>	
RECEIVED	
10 JAN 1995	
TO BE HANDLED BY	ANSW'D. OR HANDLED BY
	<i>JRW</i>
GIVE DATE & REFERENCE	
<i>LINE H.H. NER, READ, FILE</i>	
<i>JAO</i>	

**REPORT LQ3581**

CLIENT REFERENCE: P/O 3725

WELL NAME/RE: Palm Valley-10

MATERIAL: Natural Gas

WORK REQUIRED: Gas Composition

Please direct technical enquiries regarding this work to the signatory below under whose supervision the work was carried out.

Brian L. Watson  
Manager  
Petroleum Services

Amdel Limited shall not be liable for loss, cost, damages or expenses incurred by the client, or any other person or company, resulting from the use of any information or interpretation given in this report. In no case shall Amdel Limited be liable for consequential damages including, but not limited to, lost profits, damages for failure to meet deadlines and lost production arising from this report. This document shall not be reproduced except in full and relates only to the items tested.

PETROLEUM SERVICES GAS ANALYSIS

Method GL-01-01  
ASTM D 1945-81 (modified)

Client: MAGELLAN PETROLEUM

Report # LQ3581

Sample: PALM VALLEY-10 Wellhead  
Pressure: 10384 kPag, Temp: 32°C  
Date: 27/12/94, Depth: 1901m  
Cylinder #AMDEL-228

GAS	MOL %
Nitrogen	1.97
Carbon Dioxide	0.03
Methane	88.51
Ethane	7.83
Propane	1.14
I-Butane	0.11
N-Butane	0.22
I-Pentane	0.08
N-Pentane	0.04
Hexanes	0.05
Heptanes	0.02
Octanes and higher h'c	0.00
Total	100.00

( 0.00 = less than 0.01% )

Calculated Gas Density  
( Air = 1 ) : 0.620

Calorific Value (15.0 deg C, 101.325 kPa)

Gross:	1082 BTU/CU Ft	40.32 MJ/CU.M
Nett:	978 BTU/CU Ft	36.41 MJ/CU.M
Gross calorific value of water-saturated gas		39.61 MJ/CU.M
Average Molecular Weight =	17.966	

All results are calculated on the basis that only the measured constituents are present.  
This report relates specifically to the sample submitted for analysis.

Approved Signatory



Robyn L Tamke

Registration No: 2013

Date

31-Dec-94



Amdel Limited  
A.C.N. 008 127 802

Petroleum Services  
PO Box 338  
Torrensville Plaza SA 5031

Telephone: (08) 416 5240  
Facsimile: (08) 234 2933

17 February 1995

Magellan Petroleum Australia Ltd  
PO Box 413  
ALICE SPRINGS NT 0871

Attention: Tony Morozak-Smith

MDO	
RECEIVED	
27 FEB 95	
TO BE HANDLED BY	ASSIGNED TO HANDLED BY
	<i>[Signature]</i>
GIVE DATE & REFERENCE	
<del>HAS</del> MNF, TECH(S) READ	
FILE	(COVER ONLY)

REPORT LQ3659

CLIENT REFERENCE: Verbal Request

WELL NAME/RE: Palm Valley-10

MATERIAL: Gas and Water Sample

WORK REQUIRED: Compositional Analysis

Please direct technical enquiries regarding this work to the signatory below under whose supervision the work was carried out.

Brian L. Watson  
Manager  
Petroleum Services

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PETROLEUM SERVICES GAS ANALYSIS

Method GL-01-01  
ASTM D 1945-81 (modified)

Client: MAGELLAN PETROLEUM AUSTRALIA Ltd Report # LQ3659

Sample: PALM VALLEY-10A  
Gas Of Upstream Choke  
Pressure: 1665 kPag @ 32°C  
Date: 29/01/95 @ 0238h, Cyl# A-178

GAS	MOL %
Nitrogen	1.94
Carbon Dioxide	0.05
Methane	88.35
Ethane	8.05
Propane	1.13
I-Butane	0.11
N-Butane	0.21
I-Pentane	0.07
N-Pentane	0.04
Hexanes	0.04
Heptanes	0.01
Octanes and higher h'c	0.00
Total	100.00

( 0.00 = less than 0.01% )

Calculated Gas Density  
( Air = 1 ) : 0.620

Calorific Value (15.0 deg C, 101.325 kPa)

Gross:	1083 BTU/CU Ft	40.33 MJ/CU.M
Nett:	978 BTU/CU Ft	36.42 MJ/CU.M
Gross calorific value of water-saturated gas		39.62 MJ/CU.M
Average Molecular Weight =	17.968	

All results are calculated on the basis that only the measured constituents are present.  
This report relates specifically to the sample submitted for analysis.

Approved Signatory



Robyn L Tamke

Registration No: 2013

Date

11-Feb-95