

CERTIFICATE OF ACCREDITATION



Todd Petroleum Mining Company Limited
Kapuni Gas Treatment Plant

Client Number 7505

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Telephone 06 272-6397

www.toddenergy.co.nz

Authorised Representative

Mr Danny Summers
Laboratory Team Leader

Programme

Chemical Testing Laboratory

Accreditation Number 1020

Initial Accreditation Date 2 July 2009

Conformance Standard

ISO/IEC 17025:2017

General requirements for the competence of testing and calibration laboratories

Laboratory Services Summary

2.12 Fuels
2.50 Gases

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2.12 Fuels

The following tests in accordance with ASTM methods except where otherwise indicated

(a) Gaseous fuels

Analysis of natural gas by gas chromatography (ASTM D1945) for the following elements:

carbon dioxide	ethane	heptanes	hexanes
hydrogen	iso-butane	iso-pentane	methane
n-butane	n-pentane	neo-pentane	nitrogen
octanes	oxygen	propane	

Analysis of natural gas by gas chromatography (In-house method based on ASTM D1945) for the following elements:

Benzene

(b) Liquid fuels

Analysis of liquefied petroleum gases by gas chromatography (D2163) for the following elements:

ethane	iso-butane	iso-pentane	n-butane
n-pentane	neo-pentane	propane	

Moisture In-house method

2.50 Gases

(a) Industrial gases

In-house method

Analysis of carbon dioxide by gas chromatography for the following elements:

Nitrogen

Analysis of carbon dioxide for the following elements:

Carbon Monoxide	ISBT Method 5 Laboratory Technique
Purity	ISBT Method 2 Laboratory Technique
Total Hydrocarbons as Methane	ISBT Method 10 Laboratory Technique

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Total Non-Methane Hydrocarbons
Carbon Monoxide
Oxygen
Purity

ISBT Method 10.1 Laboratory Technique
ISBT Method 5 Field Technique
ISBT Method 4 Laboratory Technique
ISBT Method 2 Field Technique

References:

ASTM ASTM International (originally known as American Society for Testing and Materials)

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