

**CORPORATE PRESENTATION MARCH 2017** 

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The gas reserves and resource estimate for the Lesedi CBM Project provided in this presentation (slide 8) were released to the market on 12 October 2016 (Announcement) and 15 February 2017 (Reserves Upgrade Announcement). Thou confirms that it is not aware of any new information or data that materially affects the information included in the Announcement and/or the Reserves Upgrade Announcement and the Reserves Upgrade Announcement and the Reserves upgrade Announcement and the Reserves upgrade Announcement continue to apply and have not materially changed. The gas reserve and resource estimates are based on and fairly represents, information and supporting documentation and were determined by Dr. Bruce Alan McConachie of SRK Consulting (Australasia) Pty Ltd, in accordance with Petroleum Resource Management System guidelines. Dr. McConachie is considered to be a qualified person as defined under the ASX Listing Rule 5.42 and has given his consent to the use of the resource figures in the form and context in which they appear in this Presentation.

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# Led by an experienced team including a pioneer of CBM in Queensland

#### Martin McIver Chairman

- Over 17 years experience in finance and mining services
- · Formerly with PwC
- Current General Manager Mergers and Acquisitions of the WorkPac group

# Anthony (Tony) Gilby MD & CEO

- · Geologist with over 30 years industry experience
- Co-founder of a number of successful CBM companies in Queensland
- Previous technical roles for ESSO & Exxon
- Led takeover of Sunshine Gas by QGC (BG) in 2008 for A\$1.1bn

# **Colm Cloonan Finance Director**

- Accountant (FCCA) with over 17 years experience
- · Worked in various industries including power generation in Australia
- In-depth company knowledge having served in various roles, including CFO, since 2009

# **Gabaake Gabaake Executive Director**

- Geologist and former Botswana Permanent Secretary, Minerals Energy & Water
- Very strong government and industry relationships in Botswana
- Former director of international resource companies including Debswana, De Beers and DTC



# KEY MANAGEMENT AND CONSULTANTS

### Experienced management team and consultants to drive the project

# **Danny Horne Chief Operating Officer**

- 28 years in the drilling industry including 16 years in the Oil & Gas/CBM Sector
- Qualified in Diesel Engineering
- Diploma of Drilling (Onshore Oil & Gas)

#### Remigiyo Mavata Chief Geologist

- Geologist with over 20 years experience with African based projects
- Experience in multidisciplinary exploration in conventional and unconventional reservoirs
- Batchelor of Science in Geology from the University of Zimbabwe

# **Phil Hicks Commercial Manager**

- 20 years experience in advising companies on financial matters, corporate strategy and managing corporate finance transactions including M&A and equity capital markets
- Former Head of Corporate Finance at Wilson HTM Corporate Finance
- Has undertaken a significant number of transactions in the coal seam gas, coal and mining services sectors

#### Solomon Rowland Company Secretary & Legal Counsel

- Over 16 years experience in various private, government and in-house legal roles
- Involved in advising government departments on commercial, corporate governance and policy matters
- Holds a Juris Doctor from the University of Queensland



Tlou aims to deliver a gas-to-power solution to a market with a chronic energy shortfall

- Coalbed Methane (CBM) Gas-to-power development in Botswana and Southern Africa
- Attractive market due to the chronic energy shortage locally & regionally
- High potential power price, CBM would replace existing expensive imported power and diesel generation
- Independently Certified Gas Reserves in place
- Environmental Impact Statement approved for gas field development
- Request for proposal tender for up to 100 MW CBM power project received from Government of Botswana
- Extensive licence\* area 8,300km2
- Currently flaring gas
- Experienced team

<sup>\*</sup> Three Prospecting Licences due to expire on 31 March 2017 have been extended for the statutory renewal term of two years. Renewal applications for five Prospecting Licences that expire on 30 June 2017 to be submitted to the relevant Botswana Government department by 31 March 2017.



# **Coalbed Methane (CBM)**

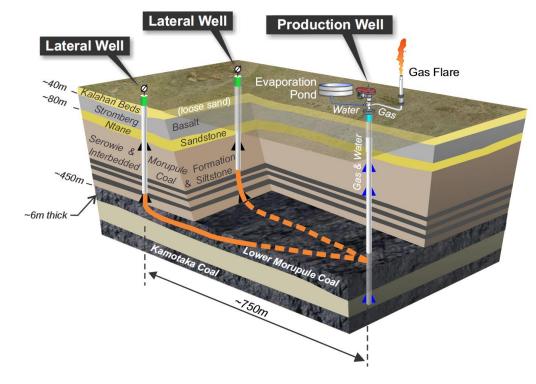
- Chemically identical to other sources of gas but is produced by nonconventional methods
- Extracted from coal seams rather than sandstone reservoirs
- Main component from natural gas is methane
- Typically found at depths of 400m 1,000m enabling lower drilling costs per well in comparison to conventional gas wells
- Emerging markets, notably India & Africa are now looking to unlock the potential of CBM due to cost advantages & energy crisis

#### **CBM Production Process**

Drilling into & then along coal seams

Initially releasing water & then natural gas

Gas collected at the surface – processed & used for generation, LNG etc.





# REGIONAL POWER DYNAMIC

As Botswana's reliance on non-firm imports and on-going diesel generation increases, the support for domestic sources of energy is strong

- Botswana's demand predicted to increase 31% to 1,017MW by 2025
- Current demand not being met
- In 2015 the shortfall in South Africa alone was 5,994MW

Southern African Development Community - Supply and Demand							
Demand and Supply Balance with Current Peak Demand - 2015							
No. Country	Utility	Installed capacity (MW)	Operating Capacity (MW)	Current Peak Demand (MW)	Peak Demand Plus Reserves	Capacity excess/ shortfall including Reserves	
Angola	ENE	2,210	1,772	1,599	1,829	(57)	
Botswana	BPC	892	410	610	698	(288)	
DRC	SNEL	2,442	1,066	1,317	1,507	(441)	
Lesotho	LEC	74	70	150	172	(102)	
Malawi	ESCOM	352	351	326	373	(22)	
Mozambique	EDM/HCB/MOTRACO	2,724	2,279	1,780	2,036	243	
Namibia	Nampower	501	354	629	720	(366)	
South Africa	Eskom	46,963	36,000	36,711	41,994	(5,994)	
Swaziland	SEC	70	55	227	260	(205)	
Tanzania	TANESCO	1,380	823	935	1,070	(247)	
Zambia	ZESCO/CEC/ LHPC	2,206	2,175	2,287	2,616	(441)	
Zimbabwe	ZESA	2,045	1,555	1,589	1,818	(263)	
TOTAL ALL		61,859	46,910	48,160	55,093	(8,183)	
TOTAL Operating Members Only		57,917	43,964	45,300	51,821	(7,857)	

Source: Data from 2015 from BPC presentation at the Botswana Resource Sector Conference 2016



# **RESERVES AND RESOURCES**

#### Independent Gas Reserves Certification(1)

0.17 3.9 BCF BCF 261.1 BCF (3P)

#### **Technical Fundamentals**

Coal Depth	~260-764m
Gas Contents (Average)	4-6 m³/t (DAF)
Gas compositions	80-95% methane

			Gas Reserves <sup>(1)</sup>		Gas Contingent Resources <sup>(2)</sup>				
Location	Project	Tlou Interest	1P (BCF)	2P (BCF)	3P (BCF)	1C (BCF)	2C (BCF)	3C (BCF)	Gas Prospective Resource (BCF) <sup>3</sup>
Karoo Basin Botswana	Lesedi CBM (Lower Morupule coal) (PL002/2004)	100%	0.15	3.5	117	4.3	67.4	470	-
Karoo Basin Botswana	Lesedi CBM (all coal seams) (PL001/2004, PL002/2004) <sup>4</sup>	100%	0.15	3.5	117	4.3	235	3,183	-
Karoo Basin Botswana	Mamba CBM (Lower Morupule coal) (PL238/2014, PL240/2014)	100%	0.02	0.4	144	n/a	n/a	n/a	-
Karoo Basin Botswana	PL003/2004, PL035/2000, PL037/2000	100%	-	-	-	-	-	-	8,596 <sup>6</sup>

#### Notes:

Gas Resource numbers have been rounded to the nearest tenth for amounts less than 100 BCF, otherwise to the nearest whole number. Refer to Competent Persons Statement in the disclaimer slide of this presentation.

- 1) Tlou's Gas Reserves have not been adjusted for fuel or shrinkage and have been calculated at the wellhead (which is the reference point for the purposes of ASX Listing Rule 5.26.5).
- 2) Contingent Gas Resources are (100%) Unrisked Gross and are derived from the SRK certification at 31 March 2015 for all coal seams (as previously announced by Tlou on 9 April 2015) with adjustment for the gas volumes which have now been certified by SRK in the Gas Reserves category.
- 3) ASX Listing Rule 5.28.2 Statement relating to Prospective Resources:

The estimated quantities of petroleum gas that may potentially be recovered by the application of a future development project(s) relate to undiscovered accumulations. These estimates have both an associated risk of discovery and a risk of development. Further exploration appraisal and evaluation is required to determine the existence of a significant quantity of potentially moveable hydrocarbons.

- 4) The Gas Reserves and Contingent Gas Resources for all coal seams in PL001/2004 and PL002/2004 shown in the second row of the table above includes the numbers for the Lower Morupule coal seam which are shown in the first row of the table above
- 5) The most recent Reserves assessment by SRK did not include a review and assessment of Contingent Resources in the Mamba Project area.
- 6) Prospective Gas Resources are (100%) Unrisked Gross and are derived from a report to Tlou from Netherland, Sewell and Associates Inc (NSAI) dated 16th February 2012 regarding certification for all coal seams located in the remaining prospecting licences (as previously announced by Tlou in its prospectus dated 20 February 2013).



# Significantly de-risked and well advanced CBM project

### **CBM** reserves in place

Reserves booked in both the **Lesedi**and Mamba projects

The company is not aware of any other independently certified CBM gas reserves in Botswana

# **Environmental approval in place**

The Company has a 100% working interest in tenements covering over 8,000 Km<sup>2</sup>

**Government environmental approval** in place for upstream operations (2+ year process)

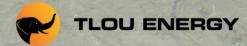
# Request for Proposal (RFP) for up to 100 MW of CBM power

Government plan to add **CBM power to their generation mix** as soon as
possible

RFP Tender submission to be lodged in July 2017

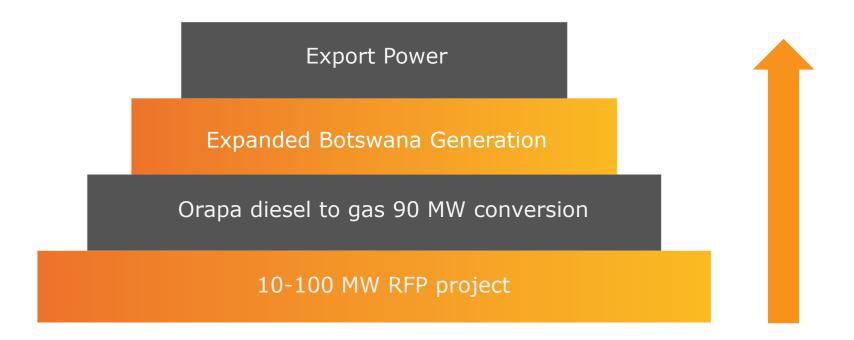
# Attractive market opportunity

The company has a **large gas asset** in a region chronically short of power and with **demand forecast to grow** steadily



# LONG TERM EXPANSION POTENTIAL

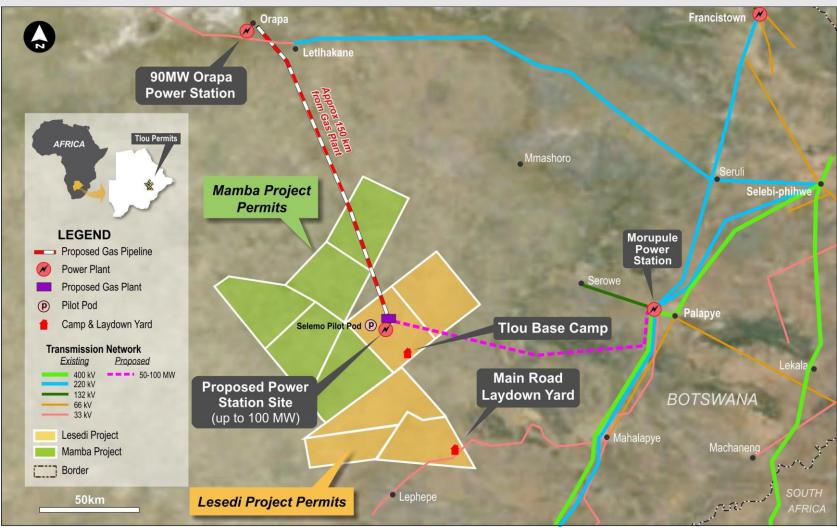
Long term vision to build a mid-tier energy provider in Southern Africa



• The Orapa 90MW power plant is an existing government operated dual fuel (diesel and gas) plant located  $\sim$ 150km from Tlou's Lesedi CBM Project. The Orapa plant is current fuelled by diesel only.



# Project Location and Supporting Infrastructure





### Experienced partners with worldwide expertise



#### **Independent Power Corporation**



#### **SRK Consulting**

- IPC is a British power development company, specialising in high efficiency, low emissions, gas fired power plants.
- provides a complete operations and maintenance service for power generation and distribution assets
- IPC has considerable experience operating in Africa including the development of power projects in Angola, Ghana and South Africa.
- IPC have introduced funding partners who have provided letters of interest for inprinciple funding support to Tlou for the downstream infrastructure requirements of the IPP Project
- IPC and its funding partners plan to facilitate the building and funding of the necessary power generation and network access assets, enabling Tlou to commercialise its gas resources

- Independent specialist geological consultants
- Develop geological and hydrological model of CBM basins
- Clients include many of the worlds mining and exploration companies
- International firm with offices in 20 countries
- SRK have provided Tlou an updated geological/structural model of the Tlou Project areas to support future gas Reserve assessments



# **10-100 MW PROJECT DEVELOPMENT STRATEGY**

# IPC Heads of Agreement is a major step in commercialising Tlou's gas resources

- > Tlou and IPC to jointly develop an initial 10 MW CBM to power project (IPP Project)
- > IPC funding partners have provided letters of interest for in-principle funding support for the downstream requirements of the IPP Project
- > Funding partners plan to facilitate the building of power generation and network access assets
- > IPC to project manage the installation of the downstream components of the IPP project
- > Tlou retains 100% of the Lesedi CBM Project, including current and future gas Reserves
- > Tlou to fund and develop the gas field post offtake agreement
- > Tlou retains the right to be a meaningful equity participant (up to 50%) in the power generation assets



### Forward Work Programs

**Expanded Reserves Certification** work program aims to increase the 2P and 3P reserves currently in place, based on recommendations from SRK following their geological review of Tlou's data in March 2017. These recommendations include the acquisition of 2D seismic data and drilling of core wells in the Lesedi and Mamba projects.

# Expanded Reserves Certification



# Aeromagnetic Survey

High resolution reprocessing and interpretation (Intrusives, Faults and Coals)

Completed: March 2017

#### **2D Seismic Data**

Up-to 200 km of seismic data acquisition and interpretation

Target: Q3 2017

#### **Core Wells**

Wells cored for gas content

To be completed post Aeromagnetic and Seismic work

**Project Development** work program aims to complete regulatory and technical aspects for the 100 MW power project in advance of Government decision on the RFP tender

# Project **Development**



# **RFP Submission, Technical Studies**

Finalise RFP requirements and complete reports for project development and expansion

Target: Q2 2017

# **Environmental Approval**

Power plant and Transmission line Environmental Impact Statements

Target: H2 2017

#### **Mining Licence**

Convert Exploration licences to long term Mining licence

Target Q3 2017



www.tlouenergy.com

Work program to complete regulatory requirements and expand independent certified gas reserves

# **Use of Funds**



#### **Studies**

Project reports
(downstream
environmental, land owner
consultation, mining
licence, network access)

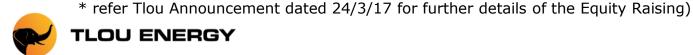
#### Reserves

Seismic acquisition and drilling and analysis of coals from core-wells

#### **Working Capital**

General, Corporate and Administrative requirements

Source of Funds:	USD \$m	GBP £m	AUD \$m
Cash balance (31 December 2016)	1.8	1.5	2.4
Equity Raising* proceeds (net of costs) from Placement and Share Purchase Plan (target)	4.2	3.5	5.6
	6.0	5.0	8.0
Uses:			
2D seismic data acquisition & interpretation	1.7	1.4	2.2
Vertical wells (cored) post seismic acquisition	1.2	1.0	1.6
Studies (upstream and downstream), Mining Licence, Environmental, consultants, fees	1.3	1.1	1.8
Working Capital	1.8	1.5	2.4
	6.0	5.0	8.0



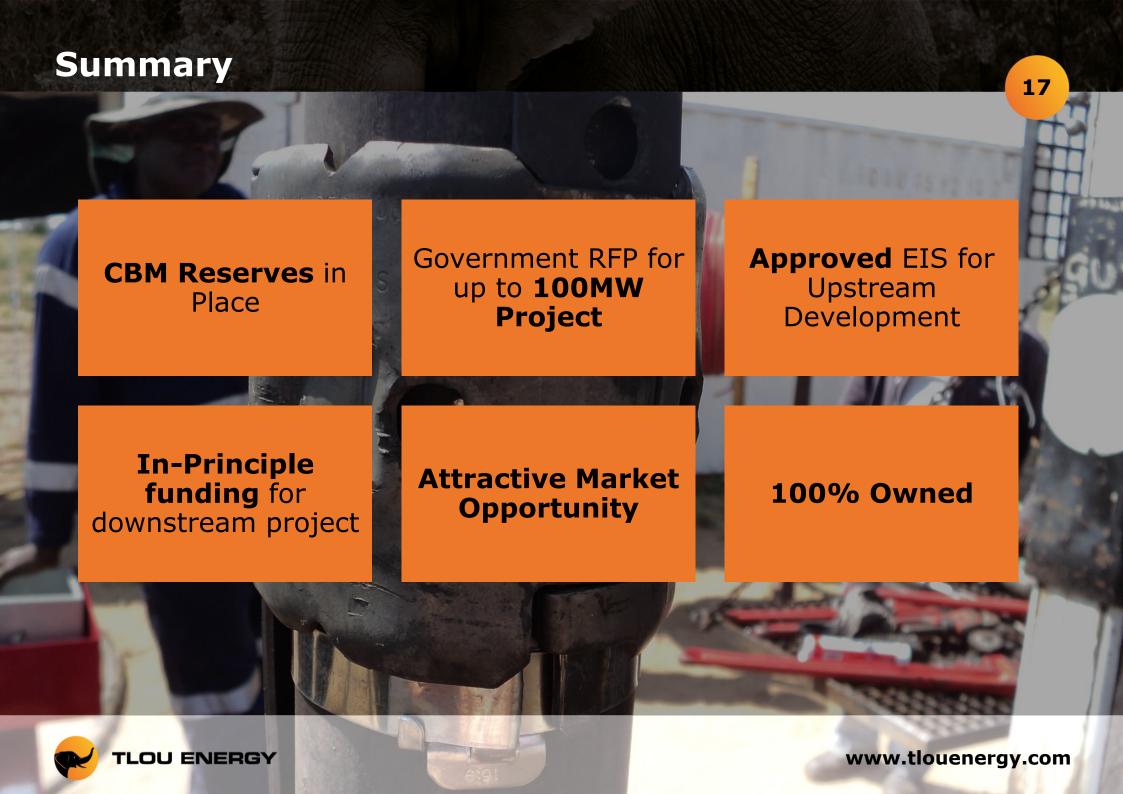
# **INITIAL PROJECT - MILESTONES**

Plan in place to deliver first gas to market via the first phase (10 MW) of the 100 MW RFP tender



• The timeline above is indicative and should not be taken as a definitive plan. There are various aspects to the project that are out of the control of Tlou, so may take longer to complete than currently anticipated. This may delay other aspects of the project and the ability of the Company to get power to market.

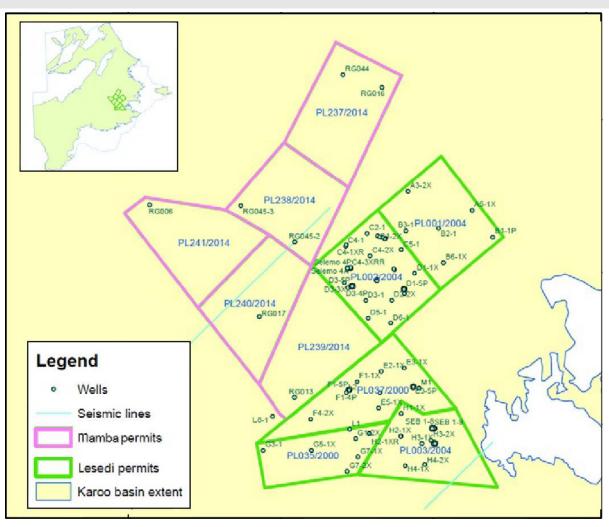




MARKET	ASX / AIM
EPIC	TOU / TLOU
SHARES IN ISSUE	237M
MARKET CAP (13-Mar-17)	AUD - \$27M / GBP - £17M
CASH BALANCE (31-Dec-16)	AUD - \$2.4M
NOMAD	GRANT THORNTON UK LLP
JOINT BROKERS	SHORE CAPITAL STOCKBROKERS LIMITED / OPTIVA SECURITIES LIMITED
PROJECT CO-SPONSOR	INDEPENDENT POWER CORPORATION PLC
GEOLOGICAL CONSULTANTS	SRK CONSULTING (AUSTRALASIA) PTY LTD



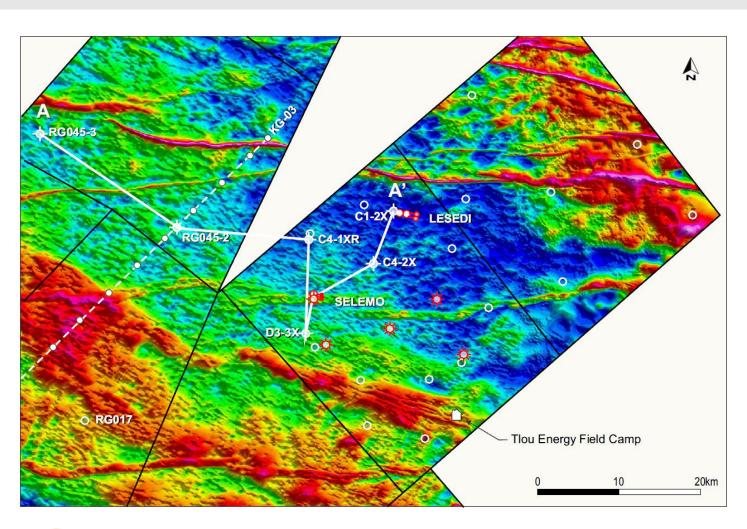
### Geological Database for the Lesedi and Mamba Projects



- Extensive geological database used to provide an accurate sub-surface picture;
- Comprises over 100 wells in the Tlou Project area and surrounds;
- Includes many wells cored and evaluated for CBM parameters (e.g. gas content);
- Seismic data also exists within the Mamba Project area.



# Aeromagnetic Map of the Lesedi and Mamba Projects

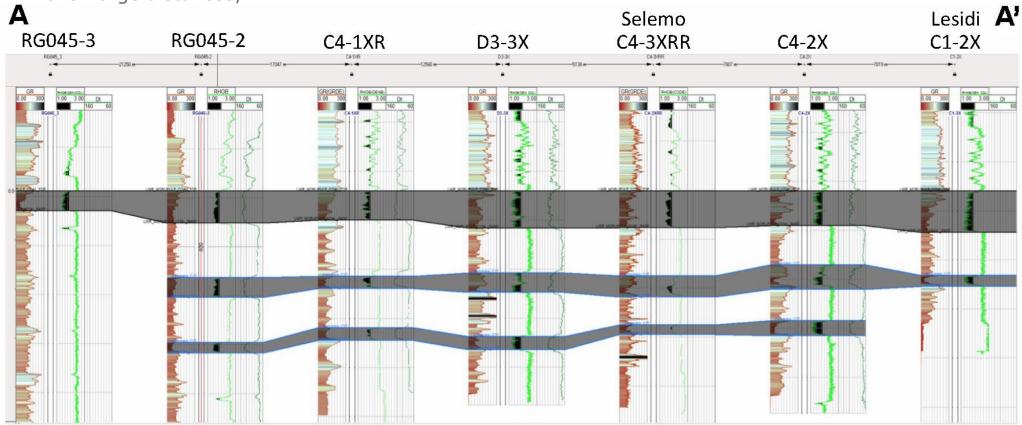


- Tlou recently commissioned reprocessing of existing aeromagnetic data;
- Structural features are now more clearly evident;
- Lower risk areas have been high-graded for more work;
- Provides framework for new seismic acquisition.



## Cross-section A-A' showing lateral extent of Lower Morupule Coal target

- Lower Morupule Coal target section is laterally extensive over large distances;
- Thickness variations are relatively minor;
- Additional CBM targets also exist.







Source: BPC, Botswana Resource Sector Conference 2016



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