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Unless otherwise specified information in this report relating to exploration and related technical comments have been compiled by Dr James Searle, a Member of the Australian Institute of Mining and Metallurgy, and a non executive Director of Kinetiko Energy Ltd with over 30 years experience in metallic and energy minerals exploration and development, including over 5 years experience in hydrocarbon exploration. Dr Searle consents to the inclusion of this information in form and context in which it appears.

# Company Snapshot (ASX:KKO)

#### 12 MONTH SHARE PRICE PERFORMANCE



#### **EARLY EXPLORATION SUCCESS**

- 23 Nov 12 1st well flowed gas spontaneously
- 21 March 13 KA-03 stabilised flow rate of 332 mscf/d

#### CAPITAL STRUCTURE

As at February 2015	
Last Price	A\$0.026
12 Month Trading Range	A\$0.185 - A\$0.025
Shares	139m
Convertible notes	19.25m
Market Cap	A\$4.11m
Cash (31 Dec 2014)	A\$752k
Debt	Nil
EV	A\$3.36m

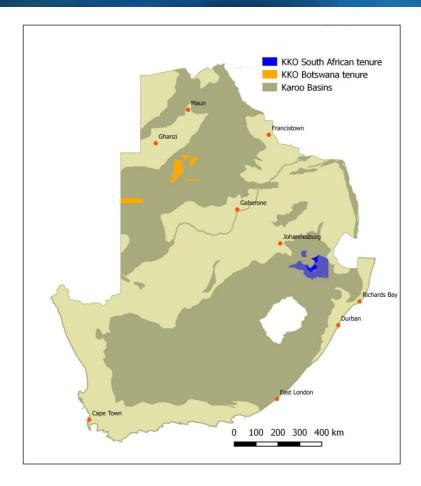
#### **SHAREHOLDERS**

Key Shareholders (30 Sept 2014)				
Christina Michael	15.40%			
Earthsciences Pty Ltd <searle a="" c="" f="" s=""></searle>	7.55%			
Blue Saint PL	4.40%			
Top 20 Shareholders	48.33%			

#### **FUNDING HISTORY**

- 19 July 2011 IPO raised \$10m at 20 cents/share
- 17 December 2012 Placement raised \$3m at 18 cents/share
- 20 December 2013 Placement raised \$1.7m at 15 cents/share
- 6 January 2015 \$550k convertible notes issued

## Gas Resource Plays



Kinetiko Energy Ltd is exploring and developing unconventional gas resource plays onshore in Southern Africa.

The company has over 20,000km<sup>2</sup> of tenure and tenure applications in South Africa and Botswana.

## Strategic South African Partner

#### Kinetiko holds a 49% interest in the Amersfoort project and is outright operator

- Its founding partner Badimo Gas ( private South African company ) holds a 51% interest in the Amersfoort project
- Kinetiko commenced a search for potential strategic partners that have the capacity to assist in the development and funding of the Amersfoort project, and expects to complete this process in Q1 2015
- Kinetiko has entered into advance JV discussions with a number of potential strategic South African partners



#### **Potential Partners Include**















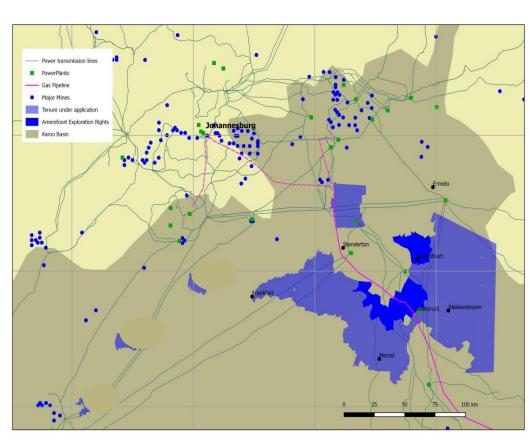


## Strategic Partners Key To Unlock Scale

#### STRATEGIC STRENGTHS

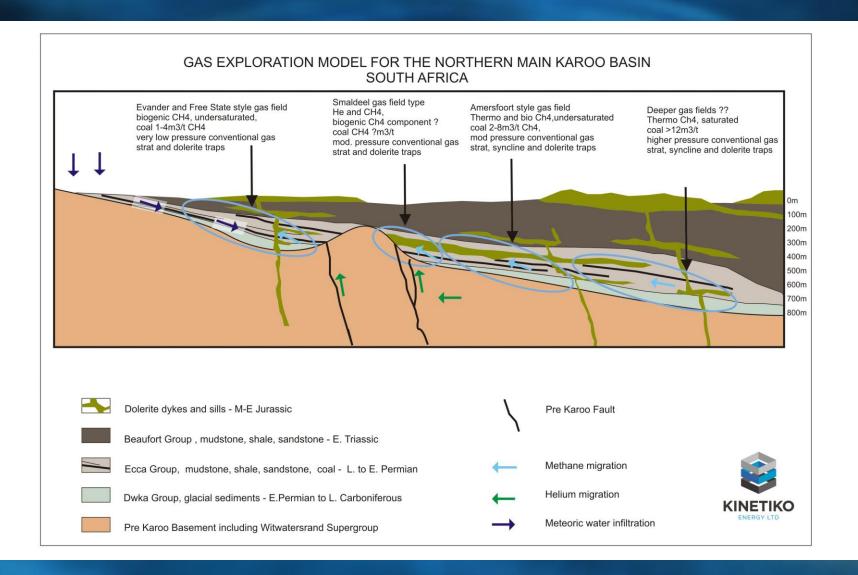
- Early mover and large scale potential and is actively looking for strategic partners to fast track and fund development
- Advanced discussion with several major established and well funded South African BEE certified companies interested in participating in the commercialization of Amersfoort project
- Many of these parties have successfully completed technical due diligence and are now proceeding to commercial due diligence which is anticipated to conclude in Feb 2015
- Following successful technical due diligence a strategic arrangement could be finalized in Q1 2015
- Short term value potential with Project "Reserves" focus – converting resources to reserves mid 2015
- Large Amersfoort resource (1.5 Tcf 2C) \* and can grow significantly

#### **PROJECT LOCATION**

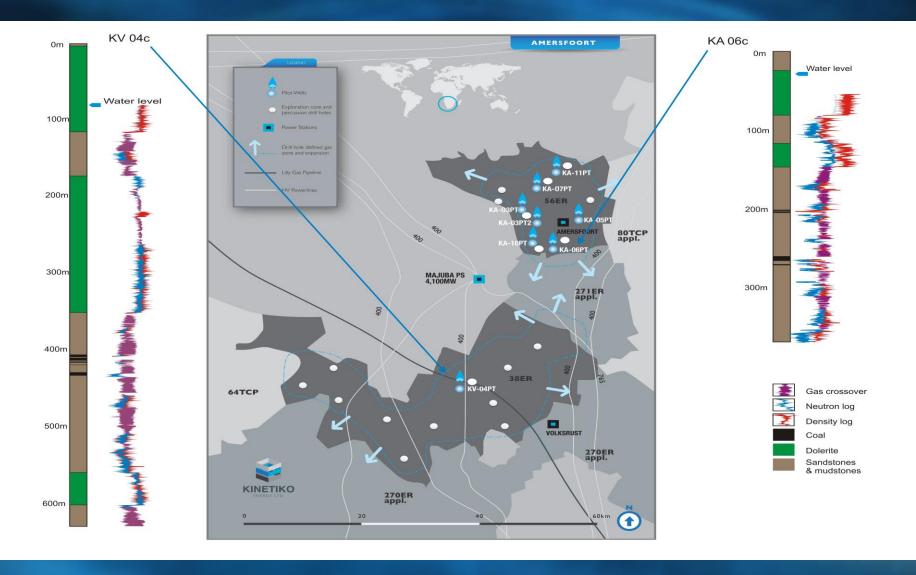


<sup>\*</sup> KKO ASX announcement on 13<sup>th</sup> August 2012

### Northern Main Karoo Basin Gas Model



# Proven Geological Prospectivity



### Drilling Has Demonstrated Widespread Gas Distribution

#### **OVERVIEW** (Operator)

- Comprised of 2 exploration licences 56ER and 38ER
- 1,401km<sup>2</sup> with consistent geology
- 20 exploration core holes with average depth of 500m
- Gas identified in every hole drilled
- Maiden reserves expected mid 2015

#### **56ER**

- 7 test wells drilled on 56ER
- 6 of 7 wells have flowed spontaneously to surface
- PT KA03 achieved initial stabilized flow of 332 mscf/day\*
- Wells are shut in pending review and potential off takes

#### **38ER**

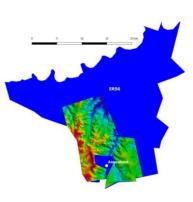
- Deeper licence with higher pressures than 56ER
- Excellent gas response in down holes logs and coal desorption



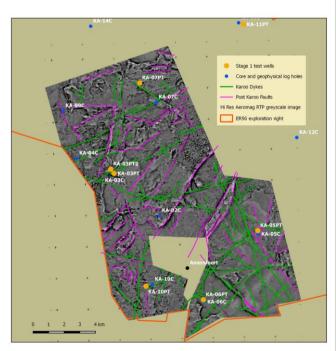
<sup>\*</sup> Refer to KKO ASX announcement on 21st March 2013

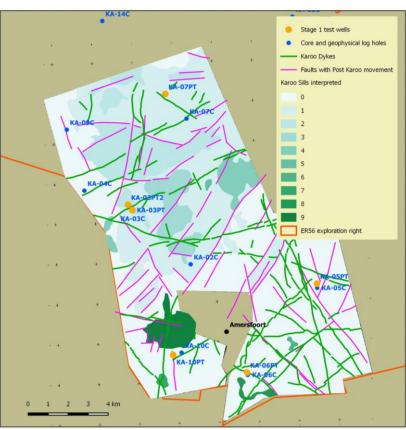
### Detailed Geological Aeromagnetics Unlock Field potential

High resolution aeromagnetics undertaken have significantly aided in targeting exploration and field design



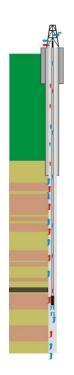






### Interval well tests and pilot field development

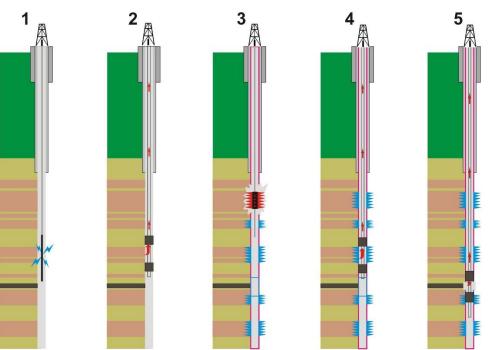
#### **Exploration**



#### Well development

- Wireline / geophysical data collection
- Interval packer tests
- **Production zones tests**
- Packer tests on production zones
- Packer tests on the coal bed zones

## **Production**



#### **Exploration completion**

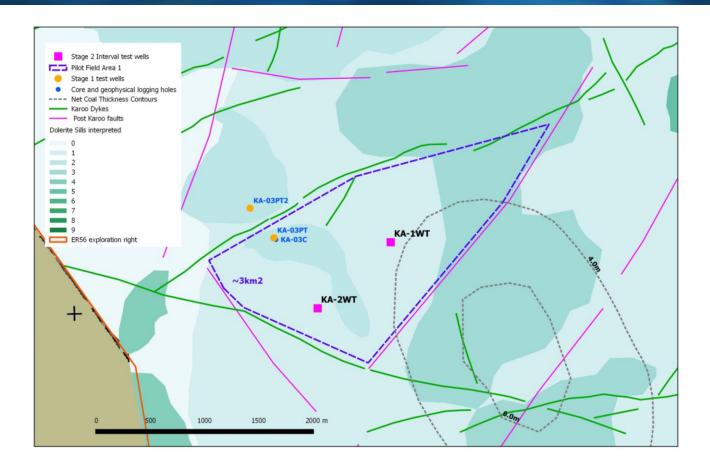
- Exploration specification, not for production
- Simple, effective and inexpensive
- Not optimal

#### Interval fully engineered wells

- Production specification ability to test all zones down hole
- Engineered to give optimal outcome and long production life
- Establish basis of design for production wells

### First Pilot Field - 6 Month Duration

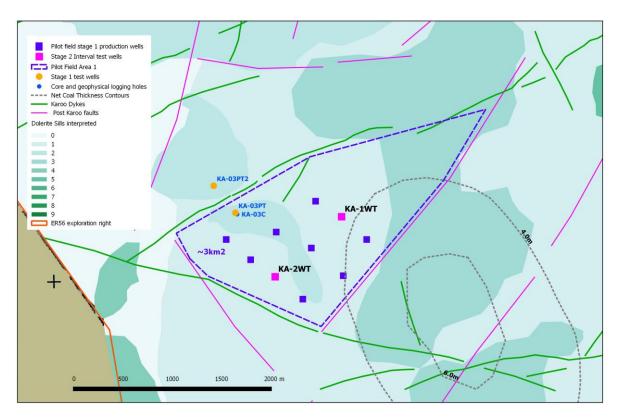
Aim to establish optimal production well design and first reserves



- Cost \$3.4m total
- Development time 6 months
- Potential trial production revenues possible.

### Pilot Field Development Stage 1

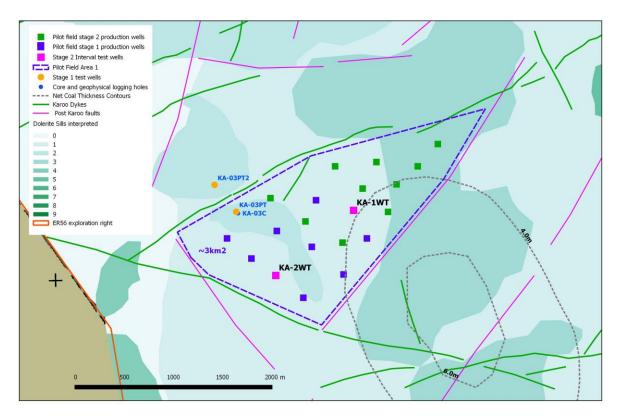
Aim to demonstrate commerciality and operational parameters



- Capital cost stage 1 8 further wells approx. \$4.5m (inc collection and compression)
- Development time 6-8 months
- Anticipated cost repayment from gas sales in 6-12 months possible.

### Pilot Field Development Stage 2

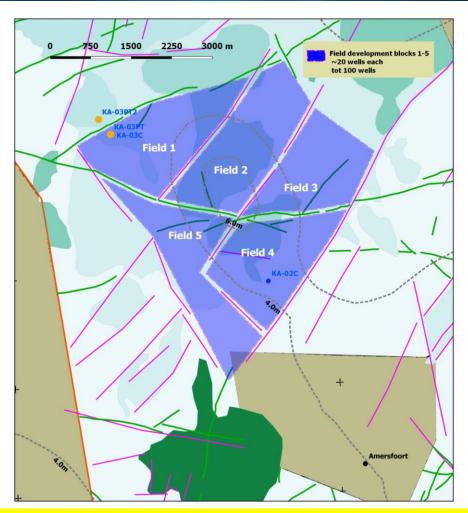
Aim to demonstrate extended commerciality and operational parameters for sequential field development



- Capital cost Stage 2 Pilot Field up to 10 further wells total \$4.0m
- Development time 8 months
- Notional average production rates year 1 = 5,000,000scf/d, ~5,000Gj/d \*

### Sequential Field Development Of Blocks 2-5

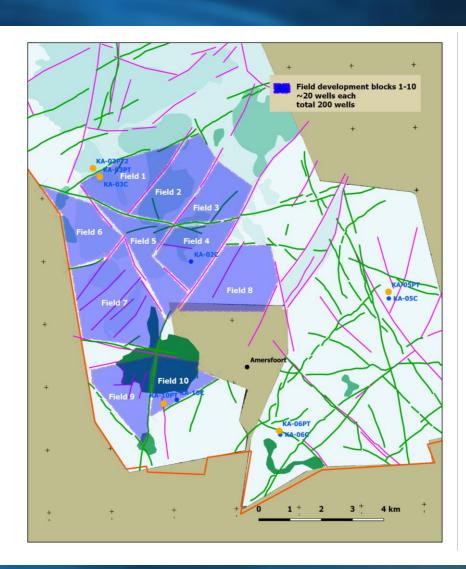
- Each Field development block containing ~20 wells
- Cost per block 2-5, including incremental collection and compression facilities approx. \$8.5m
- Each development block anticipated notional first 12 months full production 5,000,000scf/d, ~5,000Gj/d
- Development time to completion of block 2-5, 12 months (4 rigs plus 2 work over rigs, 100 wells)
- First year post completion anticipated notional production (allowing for decline of block 1) 22.5mmscf/d, ~22,500Gj/d, ~8Pj/yr\*
- Block life 5yrs++ on declining production.



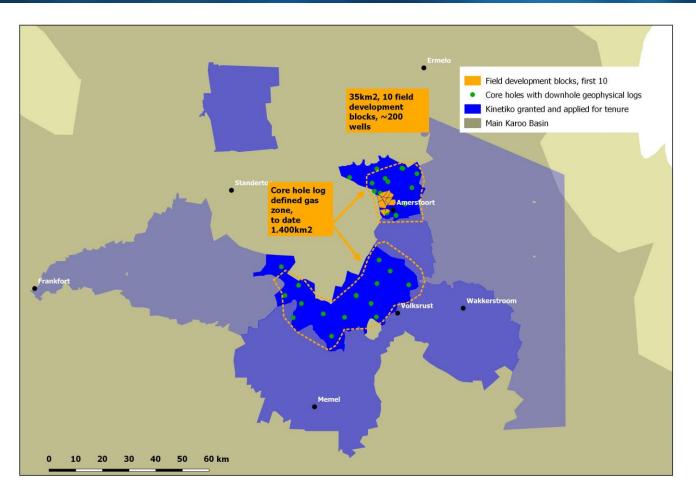
1,000scf~1Gj, 1MGj=1Pj, 1Gj~167kwhr @ 60% electrical generation efficiency.

### Sequential Field Development Of Blocks 6-10

- Continued roll our of development blocks 20 wells per block for 100 wells.
- Assuming equivalent metrics to blocks 1-5, cost \$8.5m
- Development time 12 months (4 rigs plus 2 workover rigs)
- Anticipated notional production in first year post completion as before at 22.5scf/d, ~22,500Gj, 8Pj/yr
- Assuming Blocks 1-5 now in their second year have declined by 50%.
- First year post completion of 10 blocks with 200 wells notional production blocks 1-5 4Pj/yr, blocks 5-10 8Pj/yr, total for all blocks 12Pj/yr



### Project Context Of 10 Block 200 Well Development



10 block - 200 well development, covering 35km<sup>2</sup> of a demonstrated 1,400km<sup>2</sup> shallow gas resource play · Scale potential to develop multiple fields totalling thousands of wells

### **Amersfoort Resource Statement**

#### INDEPENDENT RESOURCE

- P50 Contingent Resource of 1.5 Tcf\*
- Gas in Place (GIP) 2.4 Tcf\*
- Significant resource potential within conventional sandstone reservoirs adjacent to the coals
- Maiden Reserves expected mid 2015

#### AS AT AUGUST 20121

Contingent Resource (100% Gross)	1C (Bcf)	2C (Bcf)	3C (Bcf)
CBM	627.5	1,110.2	1,726.7
Gas in Sandstone	150.7	372.5	791.0
Total	778.1	1,482.7	2,517.7
Gas in Place (100% Gross)	1C (Bcf)	2C (Bcf)	3C (Bcf)
Gas in Place (100% Gross) CBM	1C (Bcf) 967.1	2C (Bcf) 1,689.4	3C (Bcf) 2,616.7

<sup>1</sup> Completed by Gustavson Associates of Boulder, Colorado USA

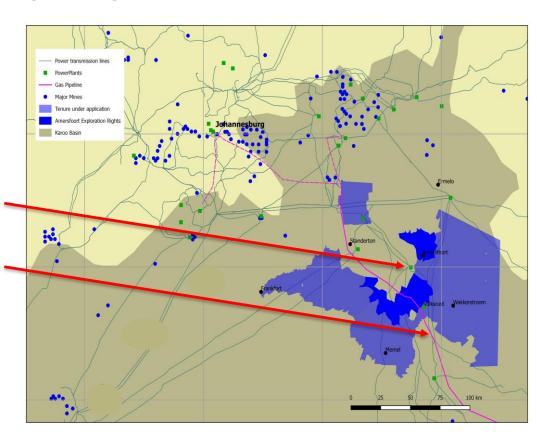
<sup>\*</sup> KKO ASX announcement on 13th August 2012

### Superior Location Existing infrastructure, markets and off take options

#### ACCESS TO EXISTING INFRASTRUCTURE

- Located at the centre of South Africa's power generation, mining and transport infrastructure
- Close to major population centres of Johannesburg and Tshwane (Pretoria)
- Over 10 power stations are located within a 300km radius of Amersfoort
- The Majuba Power Station, located within sight, requires 50,000T coal per day
- Major gas transmission pipeline from Sasol's Secunda gas to liquid plant runs through the permit area to Richards Bay
- Pilot field development production to small IPP or **CNG**
- Once greater scale is achieved production into the existing electricity grid or main pipeline is a focus

#### **PROXIMITY TO MARKET**



### Lowest Quartile Cost Environment

#### SHALLOW DEPTH = LOW COST = STRONG ECONOMICS

- Drilling and completions are predominantly shallow and inexpensive
- Production Well cost ~\$200,000-400,000
- High quality gas with greater than 95% methane with minimal treatment required for end users
- High prevailing South African gas prices of \$8-\$10/GJ at the well head
- Attractive fiscal terms
- Excellent location translates to low transport or transmission costs
- Pilot test well KA-03PT has flared over 22 million scf in 6 months.
   Sustained rate of 332mscf/d for first 6 weeks.
- Water production stabilsed at 4,000 litres per day
- If the gas had been sold under prevailing RSA gas prices of \$8-\$10/GJ, payback would have easily been achieved in 6-7 months given well costs of ~\$200,000
- At \$10/GJ breakeven is achieved from peak flow of 48 mscf/day and ultimate recovery of 0.08Bcf per well



## South African Gas Market

#### GROWING DEMAND AND INSUFFICIENT SUPPLY

- Current source from Mozambique pipeline ~400 mmscf/day
- Pipeline nearing capacity high demand with limited supply
- Gas price top global quartile \$10-12/GJ upwards
- Coal accounts for 85% of energy mix under pressure and unsustainable
- Strategic plan 2030 supports gas as an alternative especially domestic
- Rapidly rising electricity costs of 17% per annum over 5 years
- Immediate potential customers approached
- Off take gas for commercial, transport and electricity
- Both RSA NERSA and IDC supportive of domestic gas industry development
- KKO currently in discussion with off take and development partners in RSA



# CBM Peer Comparison

#### **CBM Peer Comparison**

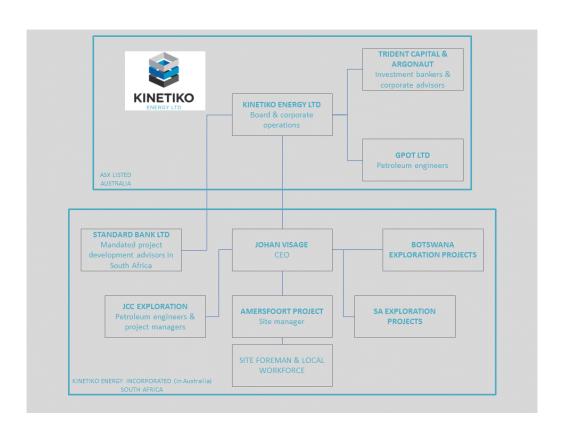
	Company			
Company (at 4 <sup>th</sup> March 2015)	KINETIKO ENERGY LTO	TLOU ENERGY	SINO Gas & Energy 中海拔尾飞电源	
Market Cap (A\$m)	3.5	29	309	
Gross Tenure (km²)	19,145	76,000	3,000	
Location	South Africa & Botswana	Botswana	China	
Gross Prospective GIP (Tcf)	6.8	7.7	13.3	
Gross 2C Resource (Tcf)	1.5	0.2	2.5	
Gross 2P Reserve (Tcf)	-	-	0.9	

Source: Company and Bloomberg

## KKO technical management and consultants

#### South African Expertise

- Appointment of South African based CEO Johan Visage, 30 years experience in the oil and gas industry as an engineer with senior roles in mid and downstream gas engineering, field development economics and gas sales and purchase agreements.
- Leading international CBM production and development engineers GPOT Ltd of Brisbane are providing well engineering and field development design.
- 😺 JJC Exploration Ltd, South Africa's most experienced oil and gas engineers, developers, managers and O&G economists are providing project management development and consulting.
- 😺 Leading South African financial institution Standard Bank Ltd has been mandated to assist Kinetiko Energy in its development and commercialisation of its African Projects.



### **Investment Highlights**

- Encouraging wells results gas flowing spontaneously from sandstone
- Large acreage position
- Amersfoort Project Prospective GIP 2.4Tcf Reserves mid 2015
- High gas market demand and pricing
- Right location close to existing infrastructure and market
- Experienced Management and technical team in country
- Government supportive of gas development
- Robust economics low well and operating costs
- Many commercialisation options with near term cash flow

