### tangiers petroleum limited

# Investor Presentation July 2013

### **Overview**

- Highly prospective acreage in Morocco with 25% equity
  - four drillable prospects with total unrisked recoverable oil of 867 MMbbl (P50)
  - fully funded exploration program
  - well to be drilled by mid 2014
- Australian acreage with 27% equity
  - Farmout agreement signed
  - full funding through 3D seismic program and drilling of two wells
- New ventures currently being evaluated
- Forward strategy focus on Africa

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### **Board and Management**

#### Ms Eve Howell – Executive Chairman

Ms Howell is an experienced geoscientist, executive and company director having worked over 40 years in the oil and gas industry.

Ms Howell had previous senior roles with Woodside Energy Ltd and Apache Energy Ltd. With the former, she was Executive Vice President Northwest Shelf as well as CEO of the Northwest Shelf Project (Australia's largest resource project). She worked for 17 years for Apache Energy in senior roles in exploration and business development and as Regional Vice President – Australia and Managing Director.

Ms Howell holds a B.Sc. in Geology and Mathematics and an MBA. She is also a Non-executive Director of ASX listed Downer EDI Ltd and Mermaid Marine Australia Ltd.

#### Mr Brent Villemarette – Executive Director

Mr Villemarette is a petroleum engineer with more than 30 years experience in the oil and gas industry globally. His experience spans a wide range of disciplines including exploration, development, operations, marketing, acquisitions and new ventures.

He also serves as COO for Transerv Energy, an ASX listed company actively engaged in developing the large undeveloped Warro tight gas field in the northern onshore Perth Basin.

Mr Villemarette has previously held roles of International Reservoir Manager for New Ventures for Apache Corporation based in Houston, Texas and Reservoir Engineering Manager for Apache Energy Limited in Perth.

#### Mr Max de Vietri – Non Executive Director

Max is a graduate geologist with 38 years of international experience. He has been instrumental in finding and championing the evaluation of significant hydrocarbon and mineral discoveries and has worked in over 20 African countries.

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He is an Officer of the National Order of Merit for the Islamic Republic of Mauritania, awarded in recognition of his inaugural efforts in starting the petroleum industry in Mauritania. Max is the Honorary Consul for the Republic of Mali in Perth, awarded in recognition for his successful efforts in establishing the country as a petroleum province.

Max has a Graduate Diploma in Business and is a Master in International Relations. He is currently completing a research doctorate in Political Science.

### **Company Overview**

KEY STATISTICS AS AT 17 JULY 2013				
ASX AIM	TPT, TPTOA TPET			
Total Ordinary Shares:	130,442,076			
Total Listed Options:	44,137,145			
Total Unlisted Options:	25,275,087			
Number of Shareholders:	1,709			
Top 20 Shareholders	47.42%			
Price: (17 July 2013)	A\$0.26			
Market Capitalisation:	A\$33.9M			
Fully Diluted Market Capitalisation:	A\$51.9M			
52 Week Low:	A\$0.17			
52 Week High:	A\$0.45			
Top Shareholders Ablett PL Peninsula Inv WA Pty Ltd Australian Global Capital Pty Ltd HSBC Custody Nominees Pty Ltd	3.69% 3.40% 3.10% 2.00%			

### **Company Acreage**





## Why Morocco?

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### **Highly Attractive Investment Destination**

- Net importer of oil and gas
- Pays parity price for oil
- Encourages foreign investment
- Favourable fiscal terms
- Good infrastructure

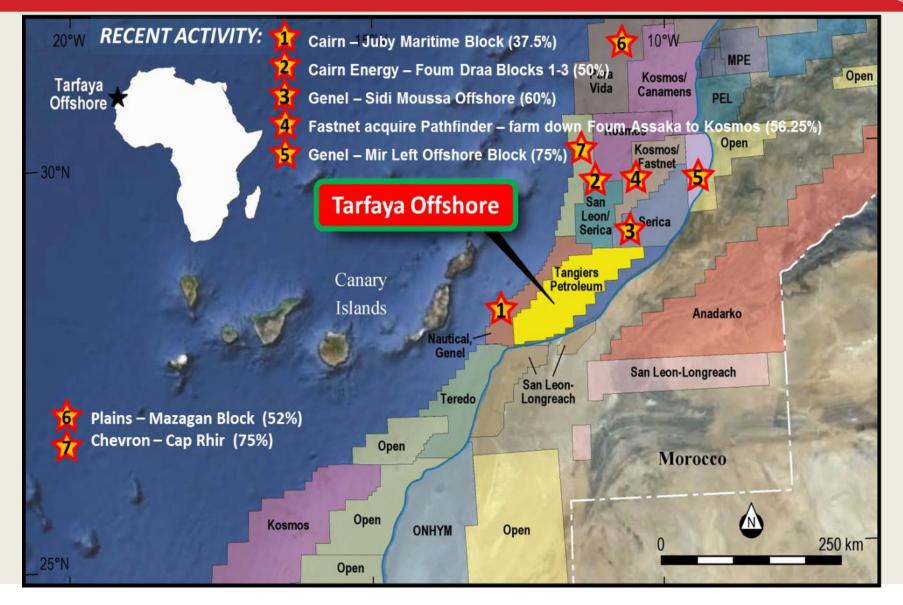
### **Highly Prospective**

- Cap Juby oil discovery by Esso in 1968 demonstrates working petroleum system
- Conjugate basin offshore Canada yielding numerous hydrocarbon discoveries

### **Under Explored**

- 36 offshore wells drilled nationally
  - only 8 since 2000
- Offshore well density: 1 well per 10,000 sq km
  Global average: 80 wells per 10,000 sq km

# Morocco – recent transactions and acquisitions



## **Morocco highlights**

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#### Tarfaya offshore block

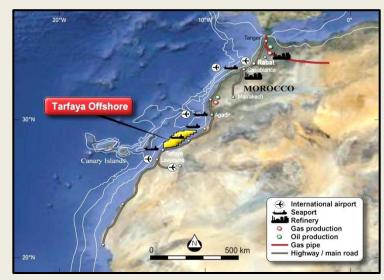
- Water depth generally less than 200 m
- 8 permits ~ 11,282 km<sup>2</sup>
- Under-explored location with only 4 wells drilled
  - 1 well per 3,750 km<sup>2</sup>
  - 3 wells 1960s, 1 commitment well in 1985
- All wells had hydrocarbon shows
- Active petroleum system

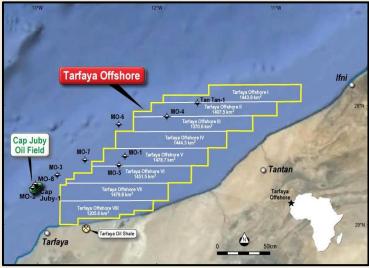
#### **Participants (post farmout)**

- 50% Galp Energia (Operator)
- 25% Tangiers Petroleum (TPT)
- 25% ONHYM (Government free carried through exploration)

### **Favourable Fiscal Terms**

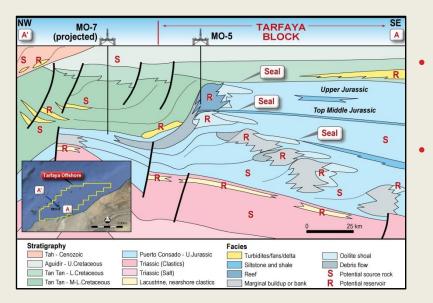
- Not a PSC environment
- Corporate Tax
  - 10 year holiday from first production
- Royalty
  - Oil 10% (water depths <200m)
  - Gas 5%

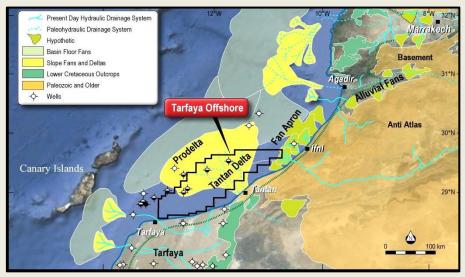




### Tarfaya - Regional Stratigraphy and Play Types

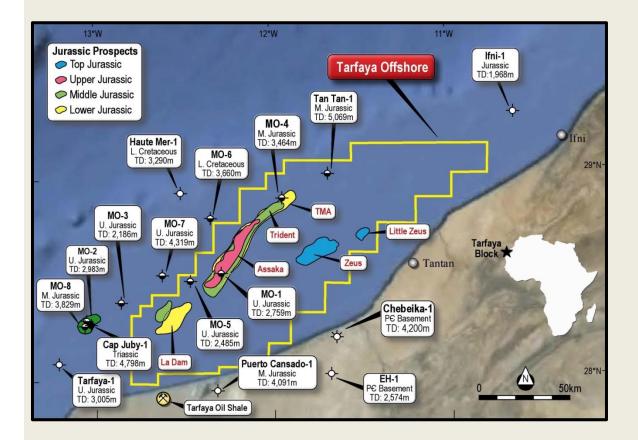
- The Tarfaya block is located in an area where a petroleum system associated with Jurassic carbonates has already been proven by the Cap Juby discovery in the 1960s
- Working petroleum system witnessed by oil shows in the block, oil seeps and onshore oil shale mine





- 4 four-way closure prospects in Jurassic carbonate play fairway (e.g. Trident, Assaka, TMA and La Dam)
- Area also contains Cretaceous sand plays

### Tarfaya Multiple Hydrocarbon Occurences



### Cap Juby discovery

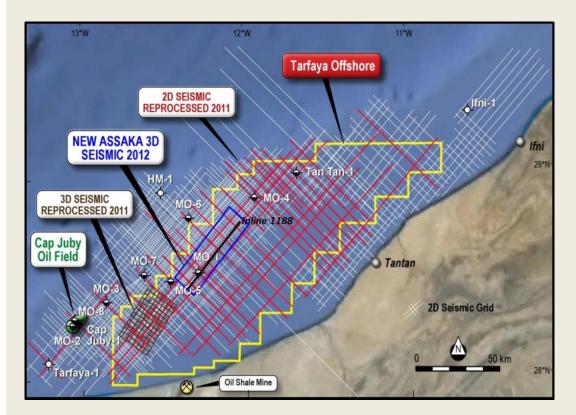
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(MO-2) flowed 2377 bbl/d of heavy (12°API oil ), biodegraded due to erosion and exposure of reservoir to weathering.

MO-8 well discovered light oil (38.5°API) in Middle Jurassic carbonates

Oil stains and gas kicks in historical wells.

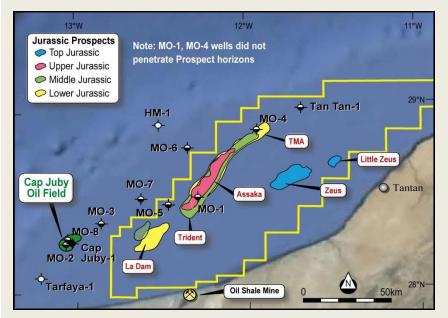
### Tarfaya Extensive Seismic Database

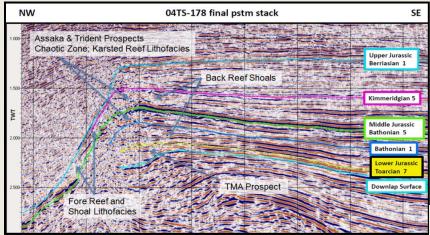


- 19,494 km of existing 2D seismic data (2,828 km reprocessed in 2011)
- 580 km<sup>2</sup> of 2006 vintage 3D seismic (reprocessed in 2011) covers La Dam Prospect
- 680 km<sup>2</sup> of 3D seismic acquired and processed over Trident, TMA and Assaka Prospects.

### Tarfaya Jurassic Prospects

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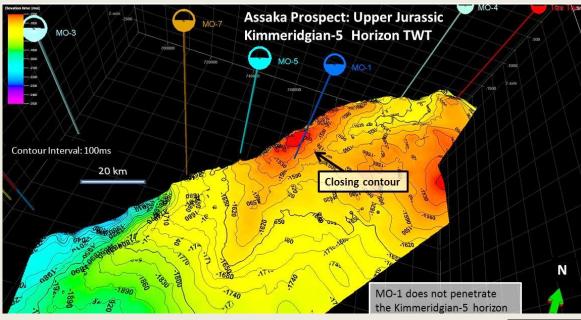




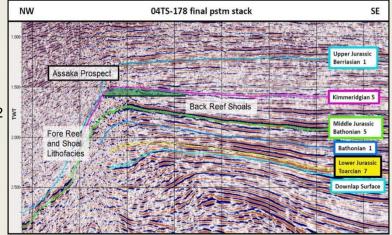
Prospects – In Place and Prospective Resources (MMbbls)					
	Unrisked STOIIP (MMbbls)		Unrisked Recoverable Oil (MMbbls)		
Prospect	P50	P10	P50	P10	
Trident	2,115	5,273	423	2,109	
ТМА	956	3,262	191	1,305	
Assaka	718	1,990	144	796	
La Dam – U to M Jurassic	545	1,874	109	749	
Arithmetic Total	4,335	12,399	867	4,959	

\* Independently assessed by Netherland, Sewell and Associates

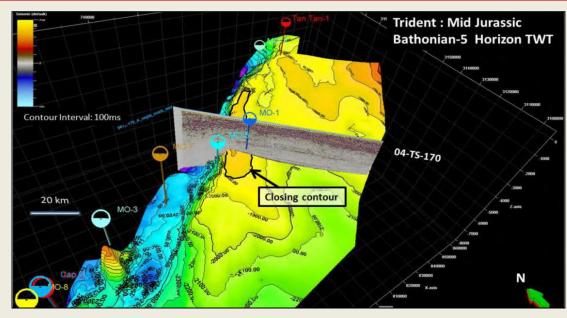
### Tarfaya Upper Jurassic - Assaka



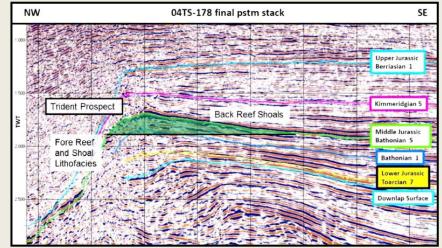
- Upper Jurassic Kimmeridgian-5 Horizon
- Fore reef and reef core underneath Assaka
- 4-way dip closure with areal extent of 132-302 km<sup>2</sup>
- Target Depth 2700-2800m
- No wells penetrate prospect



### Tarfaya Middle Jurassic – Trident Prospect tangiers

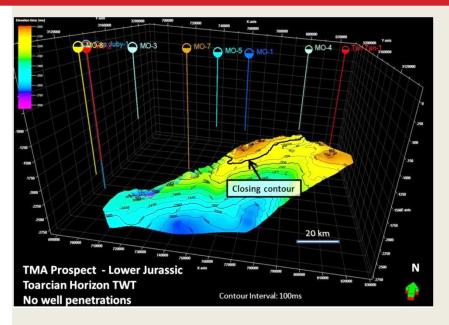


- Middle Jurassic Bathonian-5 Horizon
- Reef or grainstone shoals
- 4-way dip closure, areal extent of 293-704 km<sup>2</sup>
- Target Depth 3000-3600m

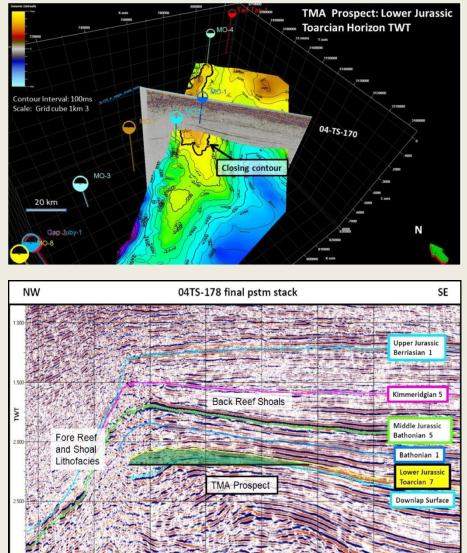


### Tarfaya Lower Jurassic - TMA Prospect

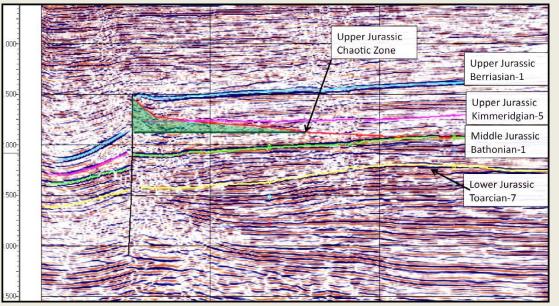
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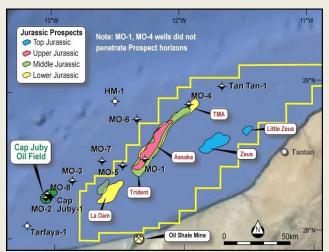
- Lower Jurassic Toarcian-7 Horizon
- Reef Core directly underneath Assaka
- 4-way dip closure with areal extent of 135-794 km<sup>2</sup>
- Target Depth 3900-4600m
- No wells penetrate prospect

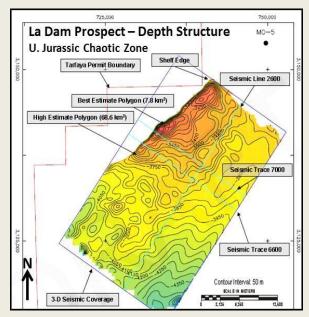


### Tarfaya Jurassic – La Dam Prospect

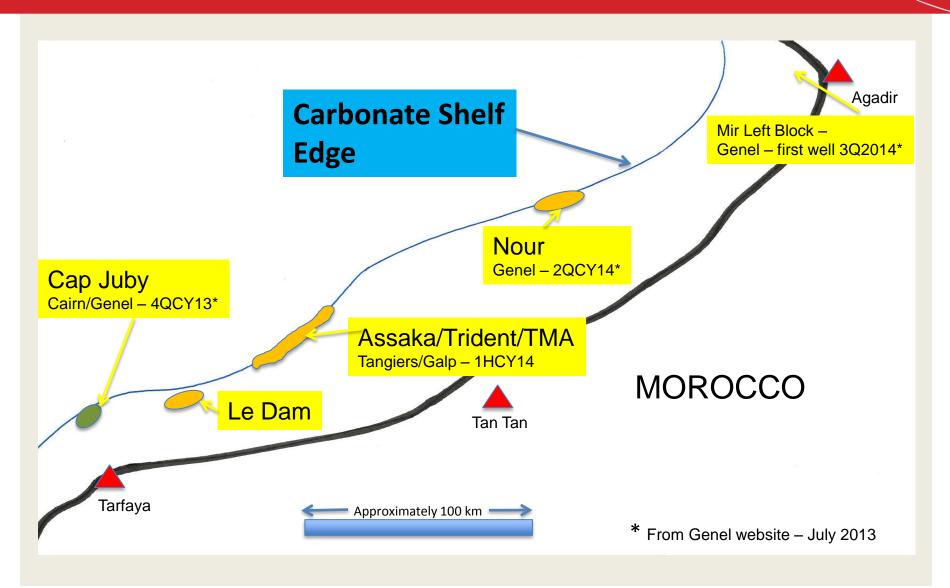


- 3 Reservoirs, Upper, Middle and Lower Jurassic
- Structural and stratigraphic traps, extending 8-69 km<sup>2</sup>
- Target Depth 3000-5500m
- No wells penetrate prospect





# Offshore Morocco – Jurassic carbonate targets – 2013/14



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### Australia

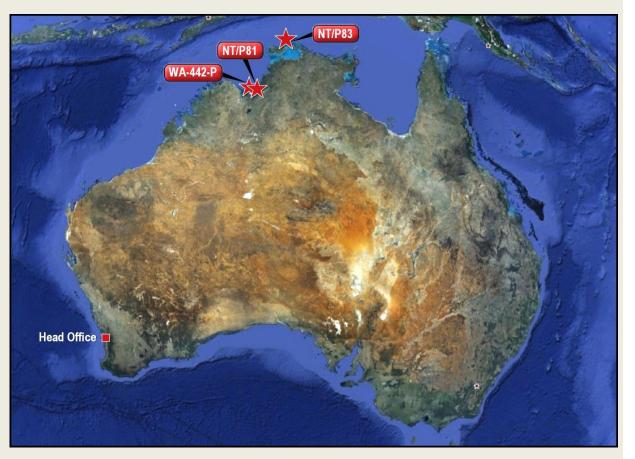
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#### WA-442–P and NT/P81 Exploration Permits

- TPT 90% WI (Operator) Ansbachall 10%
- ~ 250 km southwest of Darwin LNG hub
- Farmout Agreement signed with CWH Resources. Funding A\$35 million to earn 70% equity Post farmout: TPT 27%, Ansbachall 3%

#### **NT/P83**

- TPT 100% (Operator)
- Approximately 15,000 km<sup>2</sup>
- North of Bathurst Island/ Coburn Peninsula - block acquired August 2012



### Australia WA-442-P, NT/P81

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# Strategically located in the Southern Bonaparte Basin offshore Australia, 250 km southwest of Darwin -the Northern Australian gas and LNG hub.

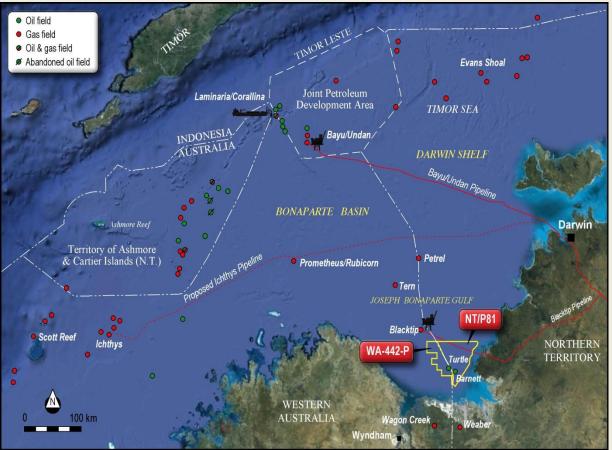
 TPT currently operates 90% Post farm down: CWH 70% (Operator), Tangiers 27%, Ansbachall 3%,

#### 3 Key Plays:

- Turtle / Barnett
  Oil discoveries in 1984-85
- Milligans Fan significant prospective oil potential
- Nova

Large gas prone structure with multi TCF potential

 Prospective resources estimate and CPR completed by ISIS for Nova and Milligans leads

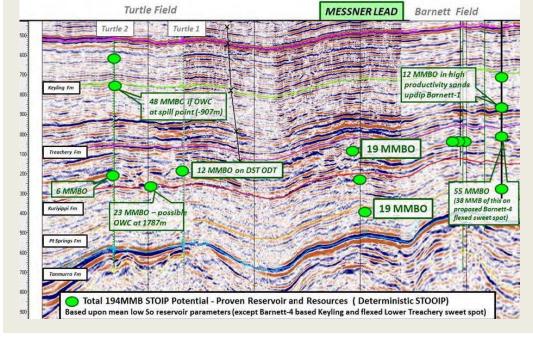


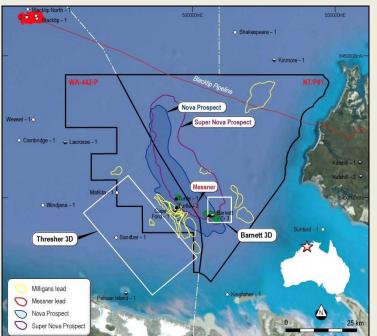
\*Diagram produced by the Company

## Australia WA-442-P, NT/P81 Turtle-Barnett

# Turtle and Barnett oil fields discovered in 1984/85 and appraised in 1989

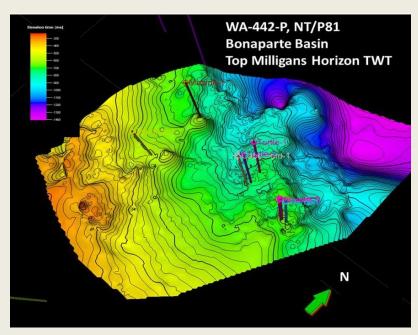
- Multiple oil bearing reservoirs intersected on the Turtle Barnett structures
- Produced 750-920 BOPD (38° API) on drill stem test
- Development concepts being considered

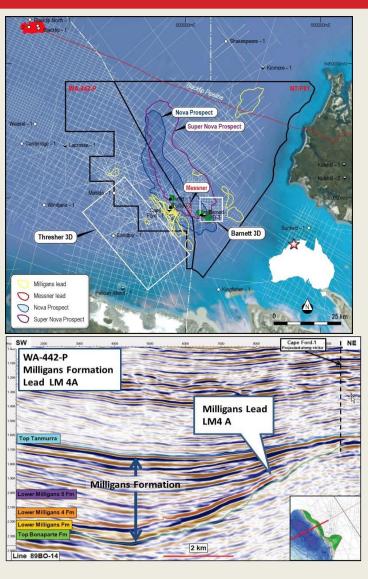




### WA-442-P, NT/P81 Milligans Fan Oil Play

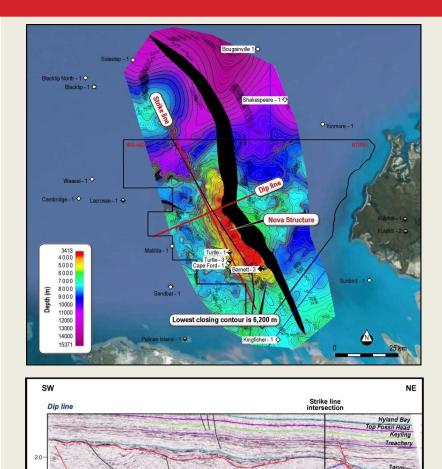
- Competent Persons Report completed on' Milligans Fan oil potential by ISIS Petroleum Consultants.
- 14 identified leads, 8 structural traps and 6 combination structural/stratigraphic in nature.
- The Milligans Formation drilled in offshore wells confirm an active petroleum system; oil in Turtle-2 and oil and gas in Barnett-2.
- Gross mean unrisked oil in place (STOIIP) of 683 million bbl oil with a high case of 1.489 billion bbl oil in place.
- Gross mean unrisked Prospective Resources of 218 million barrels of oil with the high side case of 505 million barrels of oil





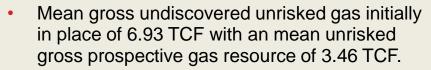
### WA-442-P NT/P81 Nova Prospect





10 kn

Line 89BO-10



- Reservoir:
  - Late Devonian Early Carboniferous Bonaparte Fm sandstones and carbonates
- Trap:
  - 3-way dip and fault structure within a tilted fault block; southwest-dipping reservoirs sealed by Early Carboniferous shales. Areal extent of 470 km<sup>2</sup> with 2,800 m max. vertical relief
- Seal:
  - Combination of Intra-Bonaparte Fm shales and Early Carboniferous shales above unconformity and across northeast bounding fault
- Target Depths:
  - 3,250 3,600 m

### **New Venture Strategy**



- Africa
- Onshore and shallow water acreage awards, farmin opportunities and/or corporate transactions
- Build portfolio to include acreage with near term drilling/development opportunities
- Balance of low risk, moderate reward development or production opportunities and higher risk, large exploration potential
- Informed socio-political decisions
- Cultural sensitivity in business relationships

### **Current Status**



### **Fully Funded**

 Two recent transactions result in the Company being fully carried through exploration programs over next 18 months – 3D seismic acquisition and three wells

### Balance Sheet – Injection of ~A\$11million forthcoming

- Repayment of Morocco past costs (US\$7.5million)
- Refund of bank guarantee (US \$3million)
- Capital raisings

### Company ready for next stage

Stronger balance sheet enables company to pursue its new strategy of acquiring acreage in Africa and building a balanced portfolio of onshore and shallow water exploration acreage and development/production assets

### **Corporate Information**

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#### Registered Office Level 2, 5 Ord Street, Perth WA 6005

Postal Address PO Box 1674, West Perth WA 6850 Telephone: +61 8 9485 0990 Facsimile: +61 8 9321 8990 Web: www.tangierspetroleum.com

#### **Share Registry**

ASX: Computershare Investor Services Pty Ltd

ASX: TPT, TPTOA

AIM: Computershare Investor Services PLC

AIM: TPET

#### Australian Brokers DJ Carmichael Foster Stockbroking

#### Joint AIM Brokers Peel Hunt LLP Shore Capital Stockbrokers Limited

#### Nominated Advisor RFC Ambrian Limited



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The information in this presentation was produced by Mr Brent Villemarette who is an Executive Director of the Company. It has been produced for the Company, and at its request, for adoption by the Directors. Mr Villemarette has sufficient experience that is relevant to the style and nature of oil prospects under consideration and to the activities discussed in this document. Hisjjjj academic qualifications and industry memberships appear on the Company's website and both comply with the criteria for "Competence" under clauses 18-21 of the Valmin Code 2005. Terminology and standards adopted by the Society of Petroleum Engineers "Petroleum Resources Management System" have been applied in producing this document.

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