# 3D Oil Limited

**Annual General** 

Meeting



**24 November 2015** 

Baker & McKenzie William Street Melbourne



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## 1. 3D Oil Overview

3D Oil continues to punch above its weight in a difficult market environment and is well placed to benefit from supply constrained Eastern States gas markets

## Two Years of Significant Achievements



➤ TDO acquires T/49P permit with significant gas potential close to Eastern States gas market

Secures strong partner, Beach Energy, with both a buy in and further farm down

Secured substantial value from the West Seahorse Field when projection finance was not available and ahead of world oil prices tumbling

> Secures US\$7.5 m carry toward the drilling of Sea Lion

➤ TDO completes under budget the 1000 sq km 3D Flanagan seismic survey

➤ TDO mapping of 3D seismic indicates a best estimate prospective resource of 1.38 TCF of gas for the Flanagan Prospect while significantly derisking the structure

> Participates in drilling of the Sea Lion exploration well

## **3D Oil Snapshot**



An oil and gas company focussed on eastern Australia with an exciting program on the horizon



**Location: Southern Australia** 

#### **Key Assets**

- 24.9% of VIC/P57 offshore Victorian permit
  - Significant potential remaining eg. Felix
- 70% of T/49P offshore Tasmanian permit
  - Contains highly prospective Flanagan prospect together with a large swag of sizeable leads

#### **Capitalisation** (Cash as at 30 September 2015)

	AUD	USD
Share Price	0.041	0.029
Shares	237.5m	237.5m
Market Cap	\$9.74m	\$7.36m
Net cash	\$10.36m*	\$6.92m*
Enterprise Value	-\$0.62m	-\$0.44m

<sup>\*</sup> Sea Lion cash call in December ~ US\$4m





# 2. Exploration T/49P

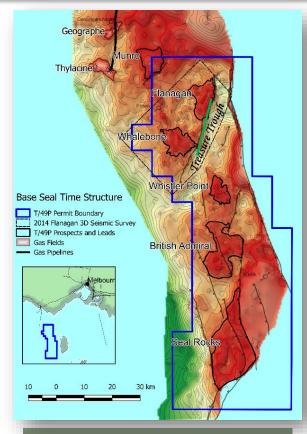
## T/49P Overview



# 3D Oil is currently 70% equity holder and operator in T/49P with its partner Beach Energy

- ➤ Interpreted to contain all the geological elements required for sizeable accumulations of hydrocarbons
  - Adjacent Thylacine (1.5 TCF GIP) and Geographe (0.5 TCF GIP)
  - One prospect identified from 3D seismic with at least 5 other leads identified with a total best estimate prospective resource of 6.8 TCF recoverable
- > Flanagan 3D seismic completed
  - 1000 sq km survey shot under budget late 2014
  - Survey largely interpreted with Flanagan Prospect substantially derisked
- ➤ 3D Oil will leverage the results of the Flanagan survey to attract the best possible farmin terms for a Year 4 well in 2016/2017
- ➤ 1 TCF has a wholesale value\* of A\$4.6 billion in Victoria

#### A potentially significant Australian gas province



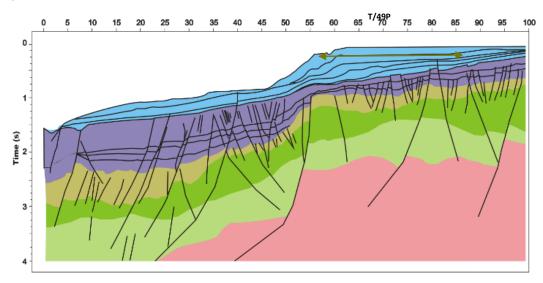
Large (4,960 km²) frontier permit Relatively shallow water (~100m)

\* Australian Energy Market Operator

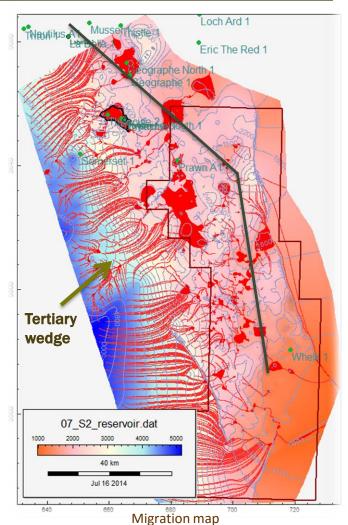
## **T/49P Prospectivity**



- Permit has all the ingredients for a rich and active petroleum system
- All leads have access to significant charge from anomalously thick Tertiary wedge which is interpreted as the Thylacine source kitchen
- ➤ Both Flanagan and Whalebone are interpreted to be located in an analogous trough (Treasure Trough) to the neighbouring prolific Shipwreck Trough
- ► New 3D seismic indicates good quality seal is present in the north of T/49P



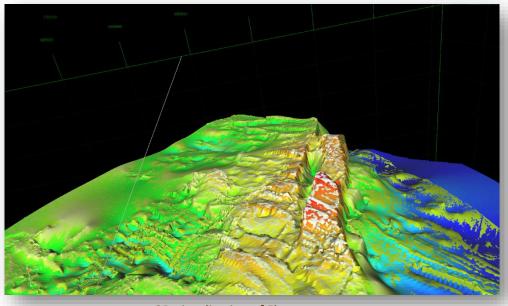
Geological cross section through southern Otway Basin



## Flanagan Prospect, T/49P

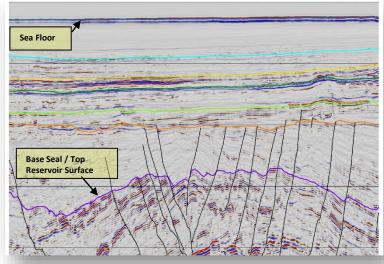
3DOIL

- > Flanagan is now a ready to drill prospect
- ➢ 3D seismic strongly indicative of good seal over the prospect
- ➤ Amplitude anomalies conformable with structure
- Analogous to nearby Thylacine Field albeit larger



3D visualization of Flanagan

#### Flanagan Prospect



3D seismic through Flanagan

Prospective Resource	Low	Best	High
Flanagan Prospect Recoverable TCF	0.41	1.38	2.68

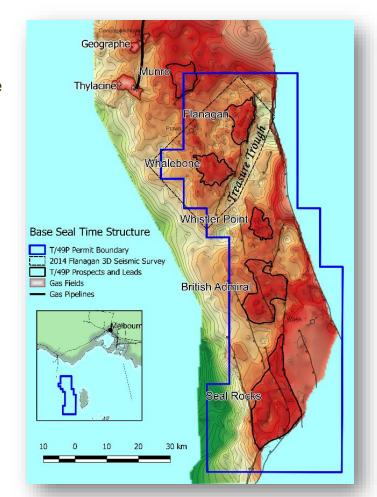
Flanagan is a world class gas prospect adjacent to infrastructure

## **T/49P Prospectivity**



- > Over two thirds of T/49P is lightly covered by vintage 2d seismic data
- ➤ The central and southern portion are structurally complex and therefore potentially 'closure rich'
- The petroleum system sourcing Thylacine is interpreted to operate throughout T/49P
- ➤ Potential for multiple large gas prospects within the block

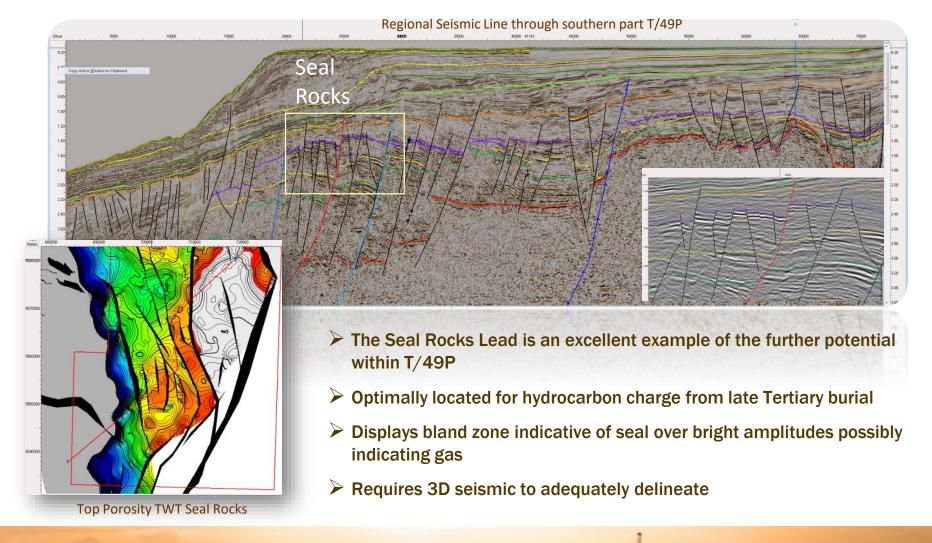
T/49P Prospective Resource Estimate (TCF) Recoverable Gas						
Location	Status	Low	Best	High		
Flanagan	Prospect	0.41	1.38	2.68		
Whalebone	Strong Lead	0.38	1.20	2.72		
Munro (T/49P Part)	Lead	0.04	0.19	0.57		
Whistler Point	Lead	0.19	0.93	1.88		
British Admiral	Lead	0.17	0.54	3.22		
Seal Rocks	Lead	0.28	2.59	10.64		
T/49P Total		1.47	6.82	21.71		



**Top Porosity TWT** 

## T/49P - Seal Rocks Lead

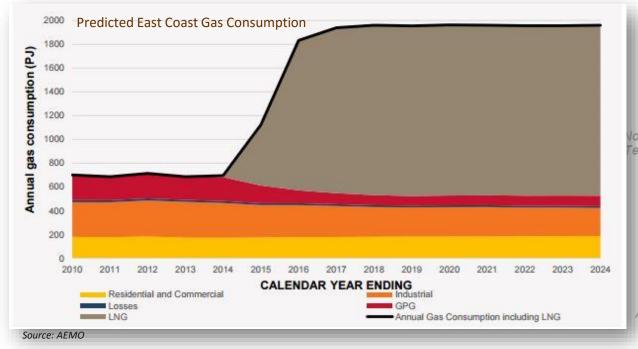




## T/49P and East Coast Gas Demand

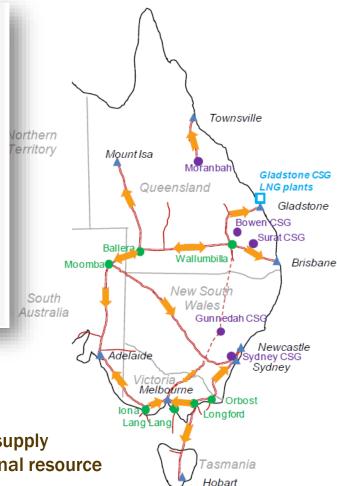


#### LNG dominates Eastern Australia demand creating market opportunity for T/49P





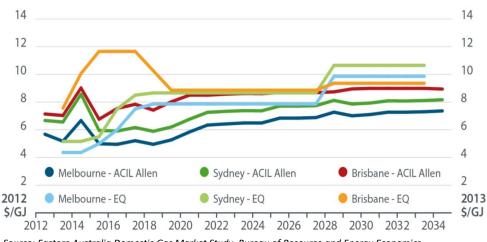
- It is unlikely that CSG fields can deliver all required gas
- Unconventional gas remains uncertain/long term/expensive
- Inter-connected markets mean LNG operators can seek diversity of supply
- T/49P well placed to address this market with large scale conventional resource



## T/49P and East Coast Gas Pricing



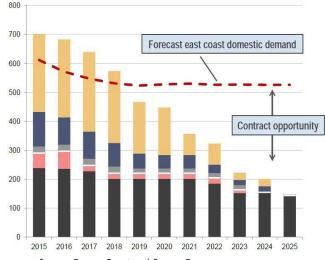
#### Eastern States Projected Gas Price 2012 - 2034



Source: Eastern Australia Domestic Gas Market Study, Bureau of Resource and Energy Economics

- Wholesale gas prices projected to be in the range of \$6.00 to \$10.00 / GJ
- Demand forecasts including LNG exports underpin confidence in strong outlook for Eastern Australia gas producers
- Contracted domestic gas supply shows shortfall which is expected to add upward pressure on prices

#### Eastern Australia demand and contracted supply (PJ)



Source: Energy Quest and Cooper Energy

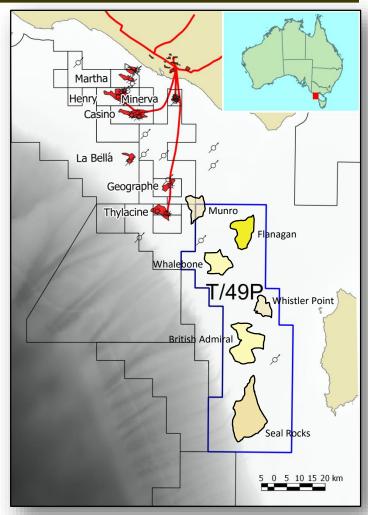


## T/49P Indicative Economics



#### **Indicative economics are strong:**

- ➤ Robust project for field sizes greater than 400 BCF@ \$6/GJ gas price
- ➤ Flanagan Best Estimate of Prospective Resource of 1,380 BCF would be clearly economic
- ➤ At \$8/GJ gas price the analysis indicates NPVs of approximately A\$450 million and A\$1.3 billion for field sizes of 800 BCF and 1400 BCF respectively
- ➤ Conservative economic analysis based on stand alone development and excluding condensate
- ➤ Three offshore operators in Otway Basin offering a variety of potential tie in options
- ➤ Recent purchase by Mitsui of Santos' 35% interest in Kipper Field for \$520 million indicates approximately \$2.50 / GJ for developed reserves



Offshore fields and pipelines, Otway Basin





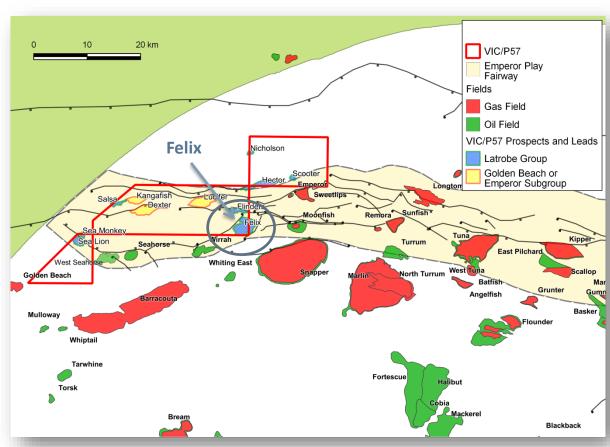
# 3. VIC/P57 Exploration

## VIC/P57 Overview



VIC/P57 is located on trend of a prolific 'sweet spot' in the Gippsland Basin,

- with an historical success rate in the region of better than 2 in 3.
- The permit covers approximately 449 km² along the prospective Northern Margin
- The Felix structures remains an exciting prospect located between Esso's Wirrah and Moonfish oil fields
- 8 prospects and leads identified in total along the northern edge of the Rosedale Fault System
- All prospects and leads defined by state of the art reprocessed
   3D seismic
- Low forward work program in coming year



Northern Margin Gippsland Basin

### **Sea Lion Review**



# Sea Lion was an attractive target as the last recognised 4 way dip closure in the prolific Gippsland Basin

#### > The well was a commitment well

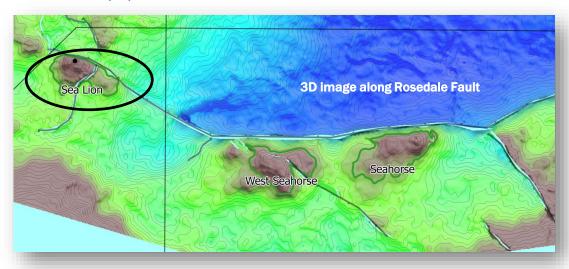
• The well was the commitment for Year 3 Second Term of VIC/P57 and was highlighted in TDO's prospectus in 2007 and always the company's intention to drill

#### > TDO minimised the financial exposure

- The company minimised the financial exposure to the well while still providing shareholders with a high impact event
- TDO reduced our equity to 24.9% while also getting a \$US7.5 million carry by Hibiscus

#### The results of the well were disappointing

- Minor shows were encountered
- The connate water encountered was significantly fresher than expected
- Evaluation technical to understand the failure to encounter hydrocarbons

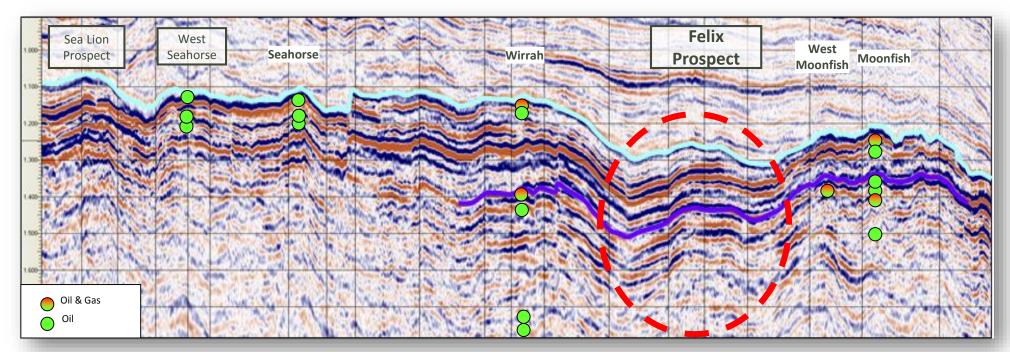


## VIC/P57 - Felix Prospect



The Felix Prospect still has a great address and is independent of the Sea Lion result

- ➤ Located between two oil fields (Wirrah and Moonfish) and appears larger at the sub-volcanic level which contains oil in both fields
- > Contains potential deep gas prospect together with the shallow oil prospect
- > The JV can keep the prospect in our 'back pocket' until oil prices rise



Seismic line through Felix from the new reprocessed data





## 5. Conclusion

## 3D Oil continues to punch above its weight



## TDO continues to successfully navigate through a difficult financial climate

Commences further farm down of T/49P	TDO commences discussion with large east coast gas players	
Monetises West Seahorse	<ul> <li>Timing of this transaction prior to the oil price crash was a great outcome</li> </ul>	
Sea Lion risked minimised	Participated in high impact event while minimising financial exposure	
Acquires world class gas acreage and prestige partner	<ul> <li>Following Beach's purchase of 20% of T/49P they further farmed up to 30% on a partial promote on the seismic acquisition</li> </ul>	
Acquires large 3D seismic under budget	<ul> <li>TDO successfully acquires Flanagan survey under budget while significantly derisking the Flanagan Prospect</li> </ul>	
Funded	<ul> <li>TDO continues to be well funded while not having gone to market for capital since 2008</li> </ul>	

## **Up Coming Activities**



#### 3D Oil still has high ambitions



- ➤ TDO's main focus on moving T/49P along ultimately to gas production
- ➤ Undertake Farmout of T/49P
- ➤ Talking to other operators in region to form rig club to mobilise a semi sub for drilling in summer of 2016/17
- > Results of 2015 gazettals
- ➤ Prudently and diligently review new opportunities within our strategy to organically grow TDO

## 3D Oil Ready for Action





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