

Emperor Energy (ASX: EMP)

RIU Good Oil Conference Perth 11th and 12th September 2019



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Information on the Reserves and Resources on the Company's operated assets in this release are based on an independent evaluations conducted by 3D-Geo Pty Ltd (3D-Geo). 3D-Geo is a independent geoscience consultancy specialising in petroleum. The technical work was undertaken by a team of geoscientists and petrophysicists and is based on open-file seismic and well data and data supplied by EMP. The technical assessment was performed primarily by, or under the supervision of Keven Asquith, Director 3D-Geo.

The technical information quoted has been complied and / or assessed by Mr. Geoff Geary who is a professional geologist (Bachelor Science – Geology) with over 35 years standing and who is a Member of Petroleum Exploration Society of Australia. Mr. Geary has consented to the inclusion in this announcement of the matters based on the information in the form and context in which they originally appear – investors should at all times refer to appropriate ASX Releases.

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Key Points

- New management team appointed April 2019
- Bass Strait Gas Exploration Focus
- 100% ownership of Exploration Permit Vic/P47 (Judith Structure)
- Independent Resource Statement completed by 3D-Geo, July 2019
 - 2C Contingent Resource (Gas Sales) of 150 Bcf
 - P50 Unrisked Prospective Resource (Gas Sales) of 1.226 Tcf
- Gas Production Dynamic Modelling completed by 3D-Geo November 2018
- Simulated Judith production wells estimated to each deliver;
 - 20 to 30 Million Standard Cubic Feet Per Day (MMcf/d)
 - 4 Well Program simulated to deliver 80mmscf/day across 32 year period
- Ocean Reach Advisory appointed in May 2019 to find major Project Partner
- Resource Technical Presentations completed / Data Room is open
- Discussions progressing with potential Infrastructure / gas off-take partners



Company overview

ASX Listed Energy Company

76 Million Ordinary Shares (ASX: EMP)
 42 Million Options (ASX: EMPOC)

Market Capitalisation \$3 Million

• Strong management team with extensive exploration and financial experience

Strong shareholder alignment

Management holding 10% ownership

Top 20 holding 60% ownership

Auditors Deloitte, Melbourne **Office:** Level 32, 1 Market St

Lawyers Hopgood Gamin, Perth Sydney NSW Australia 2000

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Management Team

Carl Dumbrell, Director

- Appointed July 2015
- EMP Company Secretary
- Chartered Accountant, Australia, England & Wales
- CEO / Executive Director Herencia Resources Plc AIM: HER

Phil McNamara, Director

- Appointed April 2019
- 37 years in the resource industry
- Former CEO and Managing Director, Amour Energy ASX: AJQ
- Former Managing Director Waratah Coal
- Qualified Mining Engineer

Malcolm King, Director

- Appointed April 2019
- Over 30 years experience in upstream oil & gas
- Former head of Commercial and Business Develop for Senex Energy ASX: SXY
- Well site geologist for Shell during the drilling of the Judith-1 Gas Discovery

Nigel Harvey, Director

- Appointed April 2019, was previously a director of EMP
- Chairman of mid size not for profit organisation
- · AFSL licence holder
- Former investment banker with JP Morgan and Macquarie

Geoff Geary, Geological Consultant

- Over 35 years experience as a geologist in the Petroleum industry
- Member of the Petroleum Exploration Society of Australia.
- Extensive experience in the Bass Strait with Shell



Schedule of Tenements

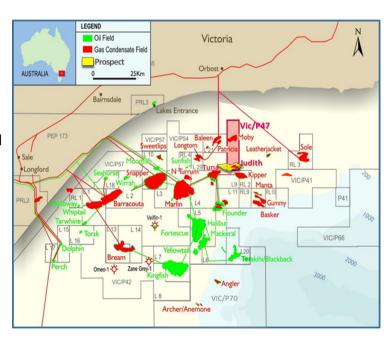
Permit	Туре	Location	Ownership
Vic/P47	Exploration Permit	Offshore Gippsland Basin	100%
Backreef	Exploration Area	Onshore Canning Basin	100%
R1/R3	Retention Lease	Offshore Carnarvon Basin	100%



Gippsland Basin

- Australia's premier hydrocarbon province
- Located 200 km east of Melbourne
- Exploration commenced in 1924
- Over 400 exploration wells
- Some 90,000 line km of 2D seismic
- More than forty 3D seismic surveys
- Petroleum infrastructure well developed with a network of pipelines to onshore petroleum processing facilities at Longford and Orbost.
- Gas delivered across southeastern
 Australia to Sydney, Adelaide, Tasmania
 and Queensland
- Operators include Esso/BHP, Seven Group, 3D-Oil and Cooper Energy
- Esso/BHP have developed the Kipper gas field adjacent to Vic/P47 investing over \$5.5 billion in the basin as part of its Kipper – Tuna – Turrum gas project
- Recent development of Sole Gas Field by Cooper

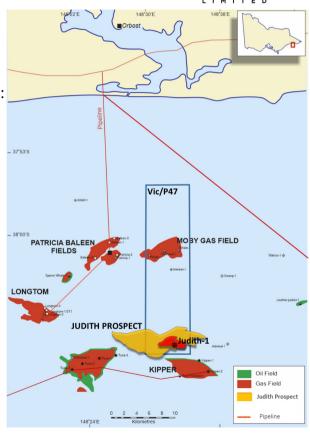






Vic/P47 - Bass Strait Victoria

- EMP holds 100% of 202 km² Vic/P47 Permit
- EMP is Operator of the Permit
- Shallow water depths: 20 85 m
- Two-gas discovery wells drilled within the permit:
 - Judith-1 drilled by Shell in 1989
 - Moby-1 drilled by Bass Strait Oil in 2004
- 3D seismic reprocessing, mapping and interpretation completed in August 2017
- Petrophysics study completed March 2018
- Resource Statement completed by Independent Resource Certifier, 3D-Geo July 2019
- Gas Production Dynamic Modelling completed November 2018 by 3D-Geo
- Judith is located 2 km north of the Kipper Gas
 Field brought recently into production by Esso / BHP Petroleum
- Permit renewed for 5 years in February 2018



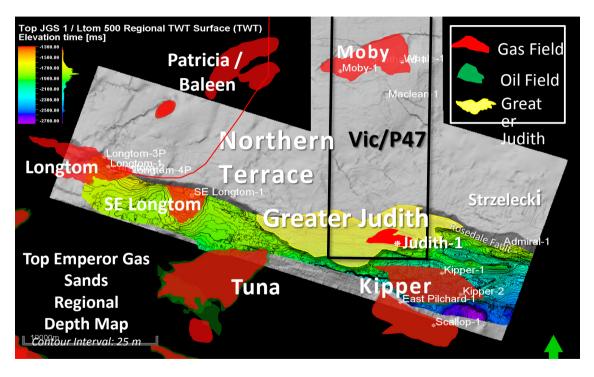


Gippsland Basin Current and Potential Future Developments - Field Size

Field	Production Licence / Permit	Operator	Reserve / Resource Category	Estimated Initial Resource (Bcf)	Source Reference
Judith	VicP47	Emperor	2C Contingent	150	1
Judith	VicP47	Emperor	P50 Prospective	1226	1
Sole	Vic/L32	Cooper	2C Contingent	236	5
Manta	Vic/RL13	Cooper	2C Contingent	101	5
Manta	Vic/RL13	Cooper	P50 Prospective	499	5
Kipper	Vic/L09 & Vic/L25	Esso	Uncategorized	588	4
Turrum		Esso	Uncategorized	1000	4
South East Remora	Vic/RL4	Esso	Uncategorized	265	2,6
Longtom Wells 3 & 4	Vic/L29	SGH Energy	Uncategorized	20	2,3,7
Longtom Proposed Well 5	Vic/L29	SGH Energy	Uncategorized	60	2,3,7



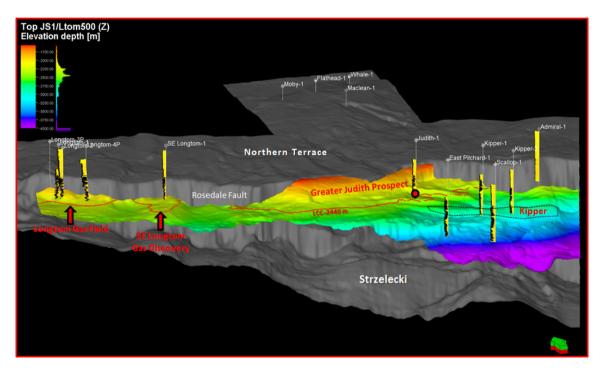
Proximity of other Gas Fields



Regional Map of Top Emperor Gas Sands showing Oil and Gas Fields adjacent to VIC/P47

Greater Judith Structure Showing Surrounding Wells



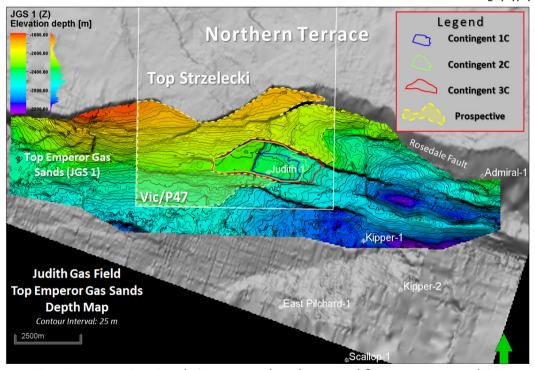


Judith Gas Sand 1 Depth Model from Longtom Gas Field to the Greater

Judith Structure

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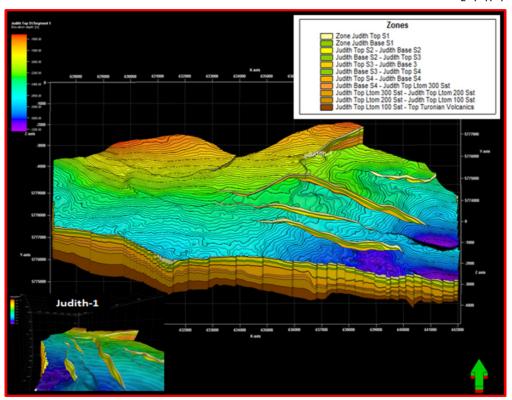
Judith Structure Depth Map



Top Emperor Gas Sands interpreted and mapped from reprocessed 3D seismic data within Vic/P47 showing location of Judith-1 drilled close to gas water contacts and significantly down-dip from structural crest.



Static Model



Greater Judith Prospect 3D Structural Model showing the structural framework (horizons and faults) 3D-Geo



Vic/P47 Volumetrics Summary

Summary of Contingent and Prospective Resources for the Judith Gas Field in VIC/P47 (3D Geo, July 2019)

Judith Gas Discovery		Contingent Resources		
		Low 1C	Best 2C	High 3C
GIIP	Bcf	180	278	386
Sales gas	Bcf	97	150	209
Condensate	MMbbl	1.4	2.2	3.2

Judith Gas Discovery		Unrisked Prospective Resources (Sales Gas)		
		P90	P50	P10
Judith Deep	Bcf	38	62	92
West	Bcf	83	127	176
Central	Bcf	37	333	628
North	Bcf	29	166	315
North East	Bcf	49	279	494
North West	Bcf	15	102	226
South	Bcf	14	157	565
Total	Bcf	265	1226	2496

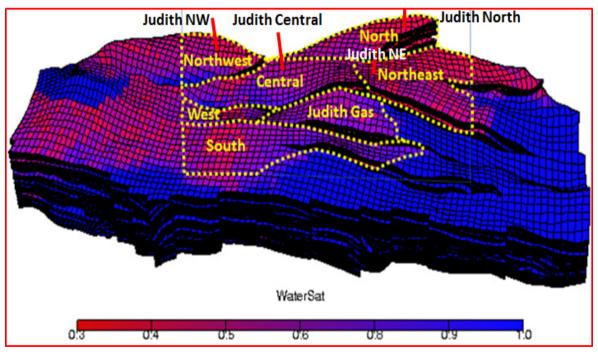


Dynamic Modelling

- Static geological model developed using Schlumberger's Petrel software for Judith 1 and greater Judith Structure.
- To confirm well productivity and gas production forecasts, 3D-GEO then developed a Dynamic Reservoir Model using Schlumberger's Eclipse software.
- The Dynamic Model simulated hydrocarbon flow for the seven separate reservoirs (four Judith Gas Sands and three underlying Longtom Gas Sands).
- The model employed a 450 m maximum gas column in each block, except in the Judith Gas block where the contact was defined as 25 m below the Lowest Known Gas in the Judith-1 well.
- Daily production was limited to a nominal 80 MMscf/d with the purpose of reflecting the capacity of the nearby Orbost Gas Processing Plant.
- Four vertical wells were modelled, with one well each in the Judith Central, Judith Northeast, Judith North, and Judith Northwest areas.
- These timing of the wells was staggered. The simulation assumes Well 1, Well 2 and Well 3 being drilled in the first year. The simulation then allows for Well 4 to be drilled in Year 4.
- Well simulation results indicated well production rates ranged between 20 and 30 MMcf/d while total daily production was limited to 80 MMscfd. Decline rates were controlled by Bottom Hole Pressures in the wells.



4 Well Simulation



Greater Judith 4 Well Dynamic Model of Emperor Gas Sands showing suggested fault-controlled compartments

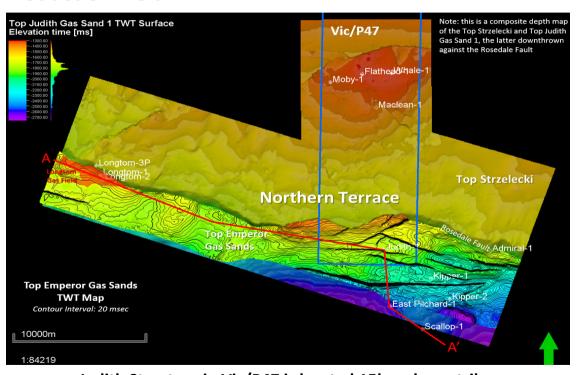


Petro-physics Study Completed

- Net Reservoir Thickness of 234m
- Four (4) reservoirs
- Net gas pay (in gas sands) of 162m
- Average Porosity in gas pay reservoirs of 13 14.9%
- Average Permeabilities in gas pay reservoirs of 0.7 1.9 millidarcies (md)
- Average Gas Saturations for gas sands vary from 39.9 45.4%
- Lowest-Known-Gas (LKG) picked in four reservoirs
 - suggests that Gas-Water-Contacts are nearby down-dip from Judith-1
- Judith-1 drilled through a major fault 50 m above the upper gas sand
- Fluid flow from the fault zone has likely caused local reduction in porosity and permeability
- Evaluation suggests that Depth-of-Burial is the major factor controlling reservoir degradation
- Improved gas reservoir characteristics as good as, if not better than the Longtom wells are expected to be developed up-dip of Judith
- Longtom Analogue suggests that Judith-1 gas reservoirs are likely to be sufficiently developed over the Judith structure to be commercially productive particularly where horizontal drilling is employed in development wells as at the Longtom Gas Field



Analogue with Longtom Production Field



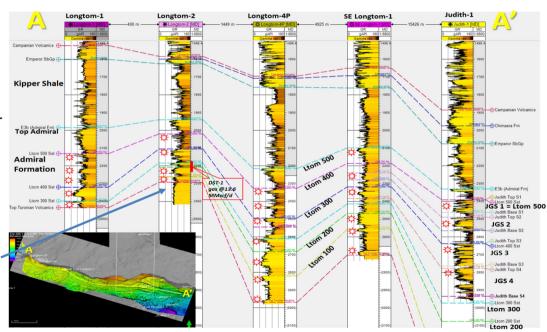
Judith Structure in Vic/P47 is located 15km along strike to the East of Longtom Production Field



Longtom Analogue

Well correlation between Longtom Wells and Judith-1 suggests potential for additional reservoir development below Total Depth (TD) of Judith-1

This includes the interval that flowed at 13.6 MMscf/d from DST-1 at Longtom-2





2019/20 Business Schedule - Vic/P47

Commence Global Search for Exploration Partner, May 2019

Progress Partnership Development for gas delivery and offtake 2nd Half 2019 Well Design Engineering and Costing. Qtr 3/4, 2019 Commence Exploration
Well Drilling Approval
Process

Qtr 3/4, 2019

Partnership Development

- Ocean Reach Advisory recently appointed to assist in global search for exploration and development partner.
- · Emperor Energy to progress with scoping study costings for
 - Field Development
 - Gas Production
 - Gas Delivery
- Establish Conditional Gas Supply Contracts
- Establish Partnership for Infrastructure and Gas Delivery

Well Design Engineering

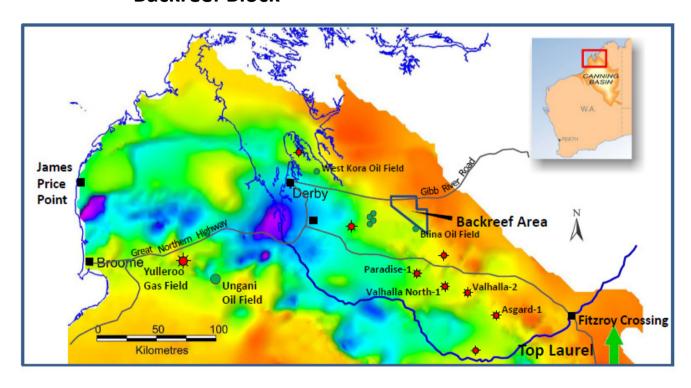
Commencement of engineering work for design of well

Environmental and Drilling Approvals

Commencement of environmental & drilling approval process



Canning Basin, Western Australia Backreef Block



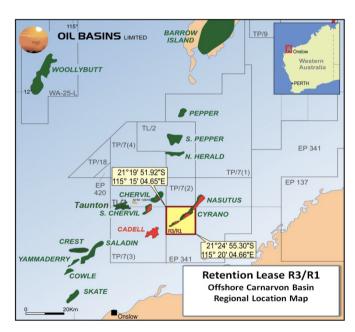


Canning Basin, Western Australia Backreef Block

- EMP owns 100% of the Backreef Block and is Operator
- Backreef-1 was drilled in October 2010 to a depth of 1800m
- Oil was discovered in porous and permeable Laurel dolomites
- Production tests confirmed the discovery as non-commercial
- The well is currently cased and suspended at 1155 m
- Environmental plan lodged in September 2017
- Surface Rehabilitation work was completed in Q4, 2018
- Following the improvement in global oil prices, the company is monitoring exploration activity in the basin with consideration of potentially undertaking further work at Backreef



Carnarvon Basin, Western Australia Retention Lease R3 / R1 (Cyrano)



- Cyrano has Contingent Resource (2C) of 3.01 MMbbl of oil
- Additional Prospective Resources (P50) estimated at 0.928 MMbbl



Carnarvon Basin, Western Australia Retention Lease R3 / R1 (Cyrano)

- EMP is Operator and holds 100% of R3/R1
- Permit Area 81 km²
- The Cyrano Oil Field was discovered in 2003
- The field is defined by 4 vintage wells and 3D seismic
- The field in located in 17 m of water.
- Productive reservoirs commence at 600 m depth.
- Permit renewed for 5 years in early 2017
- EMP is actively looking to sell R1/R3



Source References

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- 6 The Australian (2017), "Oil giants ExxonMobil and BHP bid for delay on new Bass Strait gas", 30 May 2017, available at https://www.theaustralian.com.au/business/mining-energy/oil-giants-exxonmobil-and-bhp-bid-for-delay-on-new-bass-strait-gas/news-story/a2fcf1fdce5e889b38344be5678b0d9c (paywall).
- 7 Seven Group Holdings Investor Presentation 3rd May 2018.



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