

Regulatory Story

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Empyrean Energy PLC - EME Dempsey Testing Update
Released 07:25 16-Apr-2018



RNS Number : 9468K
Empyrean Energy PLC
16 April 2018

This announcement contains inside information

Empyrean Energy PLC / Index: AIM / Epic: EME / Sector: Oil & Gas

16 April 2018

Empyrean Energy PLC ("Empyrean" or the "Company")

Dempsey Testing Update

- **Flow of clean natural gas at 195 mcfpd from Test Zone 3**
- **Confirms gas saturated rocks over a 2000+ foot vertical interval**
- **More gas zones to be tested shortly prior to field production zone testing**
- **Potential to combine gas from all flow zones to deliver cash flow**
- **Multiple options to increase Dempsey's production and develop the broader field**

Empyrean Energy (EME: AIM), the oil and gas development company with interests in China, Indonesia and the United States, is pleased to announce that it has been informed by Sacgasco Limited (ASX: SGC) ("Sacgasco"), the operator of the Dempsey 1-15 well in the Sacramento Basin, onshore California, that the testing of Zone 3 in the Dempsey 1-15 well has resulted in a further flow of clean natural gas with the quality of the gas samples consistent with other zones. Zone 3 perforations flowed gas at 195 mcfpd on 16/64" choke with a FTP of 118 psi and no water. The well is currently shut-in to enable short-term pressure build up measurements.

The operator will now test a shallower gas filled reservoir zone (Zone 4) while maintaining access to the two deeper producing intervals (Zones 2 and 3), with the option to perforate and flow test gas filled reservoirs at the field production level.

The operator plans a dual completion to produce natural gas from the yet to be tested Zone 4, and previously tested Zones 2 and 3. Likely commercial gas flows from field production zones can also be tested shortly and may be produced along with gas from Zones 2 to 4. Aggregated gas flows from all of these zones can generate cash flow from the Dempsey well very quickly given the well is already tied into the production system.

Production data collected assists the Joint Venture in designing a forward development programme for the well and Dempsey Field to enhance overall production. There is considerable optionality to extract value from the Field, including fracture stimulation.

Empyrean CEO Tom Kelly commented, "Our Dempsey well continues to excite from a technical perspective and with surface production facilities owned by the JV in very close proximity to the well we remain confident that we can capitalise economically on any gas put into longer term production."

****ENDS****

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The information contained in this announcement was completed and reviewed by the Company's Executive Director, Mr Gajendra (Gaz) Bisht, who has over 28 years' experience as a petroleum geoscientist.

Notes to Editors

About Empyrean Energy Plc (LON: EME)

Empyrean is a London AIM listed oil and gas explorer with three potentially high impact new projects. Empyrean has a 1800km² offshore oil permit located in the Pearl River Mouth Basin, China where it has completed 3D seismic in Q3, 2017 to further mature two large oil prospects, Jade and Topaz. Processing and interpretation is underway and preliminary internal interpretation of the raw seismic data has confirmed the structural validity of the Jade and Topaz prospects and also identified a third significant target named Pearl, which is located north of Topaz. The permit is directly South East of the billion barrel+ Liuhua Oil Field operated by CNOOC and two recent discoveries to the permits West and South further enhance the merit of Jade and Topaz. Empyrean is operator and holds 100% of the exploration rights through to commercial discovery where CNOOC have a back-in right to 51%.

Empyrean also has a 10% interest in West Natuna Exploration Limited that holds 100% of the Duyung PSC in offshore Indonesia and is targeting the Mako Shallow Gas Discovery that has an independently verified 2C and 3C gas resource of between 430-650 Bcf recoverable gas. Successful testing operations were recently completed at the Mako South-1 Well with 10.9 million cubic feet of gas flow and better than expected reservoir quality and multi Darcy permeability. The operator is currently analysing data with a view to providing a development plan.

Empyrean also has a joint venture with ASX listed Sacgasco Limited on a suite of projects in the Sacramento Basin, onshore California, USA. The package includes two mature, multi-Tcf gas prospects, 'Dempsey' and 'Alvares', and an Area of Mutual Interest (the "Dempsey Trend AMI") that includes at least three already identified, large Dempsey-style follow up prospects. Dempsey is a large structure mapped with 3D seismic and interpreted by Sacgasco to have the potential to hold a prospective resource of over 1 Tcf of gas in up to seven stacked target reservoirs. The joint venture has completed drilling of a 2,970 metre (9,747 feet) combined appraisal and exploration well; Dempsey 1-15, to evaluate this prospect. Wireline logs confirmed numerous zones for production testing.

Aside from compelling technical merit, the Dempsey-1 well location sits next to existing gas metering and surface infrastructure that is owned by the joint venture. This will allow for any gas discovery to be tested and connected into the local pipeline at relatively low cost and in an accelerated timeframe. This early potential for short-term cash flow in the event of a commercial discovery would be significant for the joint venture and for the state of California where gas demand is high and approximately 90% of consumption is imported from other states. Gas produced in the Sacramento Basin currently prices at a 10-15% premium to Henry Hub Gas Prices. The joint venture is currently testing the Dempsey Prospect.

Alvares is a large structure mapped with 2D seismic and interpreted by Sacgasco to hold prospective resources of over 2 Tcf estimated potential recoverable gas. A well drilled by American Hunter Exploration Limited in 1982 for deeper oil intersected 5,000ft of gas shows. No valid flow test was conducted due to equipment limitations and the deeper oil target failing. However minor gas flows to surface were recorded even with these limitations. The possibility of using the existing well bore to sidetrack and get a valid flow test, thus reducing costs will be examined.

The Dempsey Trend AMI is an Area of Mutual Interest extending to approximately 250,000 acres and containing the Dempsey prospect (described above) as well as at least three other, Dempsey-style prospects which have been identified on existing seismic.

www.empyreanenergy.com

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