



BPH Corporate Ltd

12 May 2010

Companies Announcements Office
Australian Securities Exchange Limited
10th Floor, 20 Bond Street
SYDNEY NSW 2000

Dear Sir/Madam

Advent Energy Update

A technical update for BPH investee Advent Energy Ltd is attached.

Yours sincerely,

David Breeze
Chairman

BPH Corporate Limited ACN 95 912 002
PO Box 317, North Perth, Western Australia 6906
14 View Street, North Perth, Western Australia 6006
admin@biopharmica.com.au www.biopharmica.com.au
T: +61 8 9328 8366 F: +61 8 9328 8733



12 May 2010

Companies Announcement Office
Australian Securities Exchange Limited
10th Floor, 20 Bond Street
SYDNEY NSW 2000

Dear Sir,

CSIRO STUDY – PRESENTATION TO EUROPEAN GEOSCIENCES UNION

MEC Resources (ASX:MMR) is pleased to advise that a study by its investee Advent Energy Ltd and CSIRO regarding the PEP11 offshore Sydney Basin project has resulted in publication and presentation of information at the European Geosciences Union General Assembly 2010 in Vienna, Austria.

The presentation, by Dr Asrarur Talukder, has been provided in the session discussing Fluid Flow in Continental Margins.

A copy of the abstract, reproduced from <http://meetingorganizer.copernicus.org/EGU2010/EGU2010-6262.pdf> is attached to this announcement.

Importantly, the study describes a laterally extensive prominent reflector that presents reverse polarity with respect to the seafloor seismic reflection. This indicates a widespread horizon that potentially represents an accumulation of hydrocarbons.

Further interpretation of the seismic data was undertaken in the study to determine whether the anomalous feature could be attributed to causes other than gas:

“AVO analysis and subsequent inversion of selected seismic lines show that some parts of the reversed polarity are characterized by bright spots, especially on the hanging wall side of the major faults, caused by the presence of gas.”

Significantly for Advent's forward exploration program, the investigation has determined that a prominent stratigraphic horizon has revealed direct hydrocarbon indications in the seismic data analysis due to the interpreted presence of gas.

Executive Director, David Breeze, commented: “In our view, this publication and presentation demonstrates the significant potential of Advent Energy's PEP11 project. The identification of this gas presence indication reduces a key geological risk for our exploration program, due to commence in the third quarter this year.”

Yours faithfully,

A handwritten signature in black ink that reads "D. Breeze". The signature is fluid and cursive, with a large initial "D" and "B".

David Breeze
Executive Director
MEC Resources Ltd

Media Enquiries:
Bill Kemmery
Fortbridge Consulting
Tel: +61 2 9331 0655
Mobile: +61 400 122 449

About MEC Resources

ASX listed MEC Resources (ASX: MMR) invests into exploration companies targeting potentially large energy and mineral resources. The Company has been registered by the Australian Federal Government as a Pooled Development Fund enabling most MEC shareholders to receive tax free capital gains on their shares and tax free dividends.

About Advent Energy

Advent Energy Ltd is an unlisted oil and gas exploration company, held by major shareholders MEC Resources (ASX: MMR), BPH Corporate (ASX: BPH) and Talbot Group Holdings. Advent holds a strong portfolio of exploration and near-

term production assets throughout Australia. Advent's cornerstone project lies off the coast of NSW in Petroleum Exploration Permit 11 (PEP11), and comprises gas prospects of multi-Tcf capacity. Advent Energy's wholly owned subsidiary Asset Energy Pty Ltd will increase its interest from 25% to 85% of PEP11 by drilling the first well. Bounty Oil and Gas (ASX:BUY) will thereby reduce their interest from 75% to 15%.

Notes:

In accordance with ASX listing requirements, the geological information supplied in this report has been based on information provided by geologists who have had in excess of five years experience in their field of activity.

MEC is an exploration investment company and relies on the resource and ore reserve statements compiled by the companies in which it invests. All Mineral Resource and Reserve Statements have been previously published by the companies concerned. Summary data has been used. Unless otherwise stated all resource and reserve reporting complies with the relevant standards. Resources quoted in this report equal 100% of the resource and do not represent MEC's investees' equity share.

MEC Resources Ltd

ACN 113 900 020

PO Box 317, North Perth, WA 6906

14 View Street, North Perth 6006, Western Australia

T: +61 8 9328 8477 F: +61 8 9328 8733

info@mecresources.com.au www.mecresources.com.au



Significance of the basin wide reverse polarity reflector in the Offshore Sydney Basin, East Australian Margin

Asrarur Rahman Talukder (1), Dariush Nadri (1), Sanjeev Rajput (1), Ben Clennell (1), Cedric Griffiths (1), and David Breeze (2)

(1) CSIRO Earth Science and Resource Engineering (CESRE), Perth, Australia (asrar.talukder@csiro.au), (2) Advent Energy, Perth, Australia

The Offshore Sydney Basin is located between latitudes 32°30'S and 34°30'S between the coastal cities of Newcastle in the north and Wollongong in the south, covering a total area of ~15,000 square km. The structural framework of the offshore portion of the basin comprises five principal elements: the Offshore Syncline, an extension of the New England Fold Belt, an offshore extension of the Newcastle Syncline, the Offshore Uplift and the Outer Continental Shelf. The present easterly extent of the basin is the result of Cretaceous rifting and commencement of seafloor spreading in the adjacent Tasman Sea. The continental shelf is approximately 50 km wide offshore Sydney and is edged by relatively steep continental slope. This study has been carried out with 2D multichannel seismic data covering the northern half of the offshore basin.

The Cenozoic sedimentary cover of the basin is characterized by two regional unconformities: one at the base of Cenozoic and another intra-Cenozoic. The unconformity at the base of Cenozoic is known as the Top Sydney Basin unconformity. In places the surface is displaced by faults and also characterized by possible mounds producing an overall highly irregular topography. Though most of the faults remained buried beneath the surface some continued up to seafloor. They seem to have NW-SE direction with significant lateral extension.

The intra-Cenozoic unconformity forms a prominent reflector at about 80 to 200 msbs (TWT). It is characterized by an angular unconformity with the reflectors terminating onto it from beneath. It is also associated with prograding sequences beneath, terminating with toplap geometry, suggesting that it forms the boundary between a transgressive and regressive phase. This is interpreted as a prograding carbonate dominated shelf-edge. The most interesting aspect of this seismic reflector is that the major part of it presents reverse polarity with respect to the seafloor reflection. The amplitude of the reflector changes laterally and is characterized by patches of high amplitude (bright spots). Contour mapping shows that this reverse polarity reflector is continuous and regionally distributed. The depth of the reflector with respect to the sea surface is too shallow to be a BSR, typically caused at the interface between hydrate containing sediments above and free gas below. Reverse polarity is a common indicator of the accumulation of hydrocarbons. However, alternatively in such shallow depth it can also be caused by the presence of a soft sediment layer. Another important point to note is that no chimney or any other gas escape features have been observed in the vicinity originating from the reverse polarity reflector. However, in the adjacent continental slope, giant pockmarks have been observed on the bathymetry data. They most probably originated from gas sources in Permian coal measures. In order to understand what is causing this reverse polarity further quantitative analysis such as AVO and inversion has been done.

AVO analysis and subsequent inversion of selected seismic lines show that some parts of the reversed polarity are characterized by bright spots, especially on the hanging wall side of the major faults, caused by the presence of gas. The stratigraphic position of the reflector suggests that the anomalous horizon could have been formed during the low-stand that followed the high-stand progradation event seen on dip sections. The gas accumulation could then be associated with "back reef" carbonates that during the low stand have been subjected to karstification causing the gas entrapment in vugular pore spaces.