

10 June 2021

## **UK SOUTHERN GAS BASIN AWARD OF PHASE I CONCEPT SELECT FRAC MODELLING AND DESIGN CONTRACT**

Hartshead Resources NL (**Hartshead**, **HHR** or the **Company**) through its wholly-owned UK subsidiary, Hartshead Resources Limited, is pleased to announce the Company has awarded the contract for the frac modelling and design of horizontal multi-frac well completions, as part of the 217<sup>1</sup> Bcf Phase I gas development project in the UK Southern Gas Basin, to Fenix Consulting Delft BV (**Fenix**).

The appointment of Fenix now completes the suite of contract awards for the initial stage of Field Development Planning for Phase I Concept Select as previously announced on 1 June 2021.

Fenix will undertake an evaluation of the effectiveness of the three successful fracs historically executed on the Viking Wx and Victoria Gas Fields. This will form the basis of new frac designs for the undeveloped parts of the gas fields and provide input to the reservoir model to enable optimisation of frac placement and well trajectories.

### **About Fenix Consulting Delft BV**

Fenix Consulting Delft is an engineering consulting company in the energy industry that provide a range of reservoir, production and stimulation engineering services focused on enhancing production and recovery in oil and gas.

Fenix's industry leading long-term injection rock mechanical expertise is enabling subsurface understanding for geothermal, CCS, gas-storage and seismic risk evaluation projects around the world. The improved reservoir/subsurface understanding and associated engineering expertise helps our customers to make better investment decisions.

Fenix has experience in all major production basins of the world and in all reservoir types, from igneous rocks to unconventional formations, from tight sandstone to fractured carbonates and unconsolidated sands.

[www.fenixdelft.com](http://www.fenixdelft.com)

<sup>1</sup> Volumetric estimates are from Oilfield Production Consultants (OPC) Ltd, Independent Competent Persons Report (CPR) entitled "Contingent Resources Review and Audit (Victoria and Viking Wx)" dated October 2020. See Qualified Persons Statement for contingent resource reporting notes.

Chris Lewis, CEO, commented: “We are delighted to have Fenix on board to assist with the frac design. Fenix have a vast experience in designing and modelling fracs for our reservoirs and I look forward to their valuable input to the project.”

Bart Vos, Business Manager and Partner at Fenix said: “We are very much looking forward to working with the team and creating value for Hartshead.”

**-Ends-**

---

#### **CONTACTS**

**The Board of Directors of Hartshead Resources NL authorised this announcement to be given to ASX.**

---

For further information on this announcement, visit [www.hartshead-resources.com.au](http://www.hartshead-resources.com.au) or contact:

**Christopher Lewis**  
Chief Executive Officer

**Andrew Matharu**  
Chief Financial Officer

**w: +61 8 9226 2011**  
**e: [info@hartshead-resources.com](mailto:info@hartshead-resources.com)**

## Notes to Editors:

### Hartshead Resources NL

ASX-listed Hartshead Resources NL and is focussed on building a financially, technically and environmentally responsible European Energy business.

Hartshead's goal is to secure and invest in projects where resources can be extracted and delivered to meet Europe's growing energy demand while supporting the transition to a low carbon future.

In progressing this strategy Hartshead is focused on its 100% owned Production Seaward License P2607 comprising of five blocks which contain four existing gas fields in the UK Southern Gas Basin.

Hartshead brings together a highly experienced oil and gas team with specialised knowledge covering subsurface, engineering, commercial, QHSE and capital markets with the required skillsets needed to successfully and safely deliver oil and gas upstream projects.

### UK Southern North Sea Production Seaward License P2607 – Contingent and Prospective Resources

Please refer to the qualified person's statement relating to the reporting of contingent and prospective resources on Hartshead Resources Southern North Sea License P2607 in Hartshead's ASX Announcement dated 14 December 2020 (see Schedule 3). The Company is not aware of any new information or data that materially affects the information about the contingent resource and prospective resource estimates included in this announcement and all the material assumptions and technical parameters underpinning those estimates in this announcement continue to apply and have not materially changed.

Contingent resources reported herein have been estimated and prepared using the probabilistic method.

CONTINGENT RESOURCES (BCF)					
PHASE I PROJECTS		1C	2C	3C	
VICTORIA	49/17b	84	125	177	
VIKING-WX	49/17b	62	90	124	
COMBINED <sup>2</sup>	49/17b	161	217	285	

  

CONTINGENT RESOURCES (BCF)			1C	2C	3C	GCOS
	49/6c, 49/11c	Tethys North	14	39	70	100%

<sup>2</sup> Volumes combined stochastically to give portfolio volume

<b>PHASE II</b>	48/15c	<b>Audrey NW</b>	35	<b>100</b>	387	100%
<b>PROSPECTIVE RESOURCES<sup>3</sup></b>			P90	<b>P50</b>	P10	GCoS
<b>PHASE III</b>	49/17b	<b>Vixen SW</b>	29	<b>56</b>	94	50%
<b>EXPLORATION</b>	49/17b	<b>Vixen SE</b>	43	<b>85</b>	142	30%

### Forward Looking Statements

This document has been prepared by Hartshead Resources NL (HHR). This document contains certain statements which may constitute "forward-looking statements". It is believed that the expectations reflected in these statements are reasonable but they may be affected by a variety of variables and changes in underlying assumptions which could cause actual results or trends to differ materially, including, but not limited to: price fluctuations, actual demand, currency fluctuations, drilling and production results, reserve and resource estimates, loss of market, industry competition, environmental risks, physical risks, legislative, fiscal and regulatory developments, economic and financial market conditions in various countries and regions, political risks, project delays or advancements, approvals and cost estimates.

HHR's operations and activities are subject to regulatory and other approvals and their timing and order may also be affected by weather, availability of equipment and materials and land access arrangements. Although HHR believes that the expectations raised in this document are reasonable there can be no certainty that the events or operations described in this document will occur in the timeframe or order presented or at all.

No representation or warranty, expressed or implied, is made by HHR or any other person that the material contained in this document will be achieved or prove to be correct. Except for statutory liability which cannot be excluded, each of HHR, its officers, employees and advisers expressly disclaims any responsibility for the accuracy or completeness of the material contained in this document and excludes all liability whatsoever (including in negligence) for any loss or damage which may be suffered by any person as a consequence of any information in this document or any error or omission there from. Neither HHR nor any other person accepts any responsibility to update any person regarding any inaccuracy, omission or change in information in this document or any other information made available to a person nor any obligation to furnish the person with any further

<sup>3</sup> Prospective resources are estimated quantities of petroleum that may potentially be recovered by the application of a future development project(s) and relate to undiscovered accumulations. These prospective resources estimates have both an associated risk of discovery and a risk of development. Further exploration appraisal and evaluation is required to determine the existence of a significant quantity of potentially moveable hydrocarbons.

information.

#### **Qualified Person's Statement**

Hartshead has prepared the Contingent Resource and Prospective Resource information in this announcement in accordance with the ASX Listing Rules and the 2007 Petroleum Resources Management System published by the Society of Petroleum Engineers (SPE-PRMS). The Contingent Resource estimates and Prospective Resource estimates presented in this report were originally disclosed to the market in an announcement released 14 December 2020. Hartshead confirms that it is not aware of any new information or data that materially affects the information included in the aforesaid market announcement and that all the material assumptions and technical parameters underpinning the estimates in the aforesaid market announcement continue to apply and have not materially changed. The information in this announcement that relates to Contingent Resource information in relation to the Phase I Victoria and Viking-Wx fields is based on information compiled by technical employees of independent consultants, Oilfield Production Consultants Ltd, which information was subsequently reviewed by Mr Christopher Lewis. The information in this announcement that relates to Contingent Resource information in relation to the Phase II Audrey NW and Tethys North fields and the Prospective Resource information in relation to the Vixen SW and Vixen SE prospects is based on information compiled by Mr Christopher Lewis and information compiled by technical consultants contracted to Hartshead which has been subsequently reviewed by Mr Christopher Lewis. Mr Lewis has consented to the inclusion of such information in this announcement in the form and context in which it appears and the resources information in this report is based on, and fairly represents, information and supporting documentation reviewed by, or prepared under the supervision of, Mr Christopher Lewis. Mr Lewis is a Director of Hartshead and has a BSc from the Imperial College, University of London and is a member of The American Association of Petroleum Geologists (AAPG) and the European Association of Geoscientists and Engineers (EAGE). Mr Lewis is qualified in accordance with the requirements in ASX Listing Rule 5.41.