

8 March 2022

## UK SOUTHERN GAS BASIN

### MATERIAL INCREASE IN PHASE III EXPLORATION PROSPECT INVENTORY

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#### Highlights:

- **Xodus Group completes exploration study identifying 12 new exploration prospects**
  - **Phase III exploration inventory now totals 14 prospects**
  - **Phase III 2U Prospective Resources<sup>1</sup> total 344<sup>2</sup> Bcf (un-risked)**
  - **Aggregated Phase I, Phase II & Phase III volumetrics across the Hartshead portfolio**
    - **2C Contingent Resources of 354<sup>3</sup> Bcf**
    - **2U Prospective Resources total 344 Bcf**
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Hartshead Resources NL (**Hartshead**, **HHR** or the **Company**) is pleased to announce the following operational update with respect to the Company's exploration portfolio as part of its Phase III field development.

An exploration study across Hartshead's License P2607 has been completed by Xodus Group (**Xodus**), which has generated a new prospect inventory totalling 14 prospects & leads with un-risked 2U Prospective Resources of 344 Bcf. Twelve new prospects, in addition to the existing Garrod and Ayrton prospects, have been identified on the license area. All of the new prospects are undrilled structural traps within the Rotliegendes reservoir and are summarised below (Figure 1) along with their respective geological chance of success (GCoS).

A number of opportunities for further work have been identified by Xodus to potentially further de-risk the prospects and reduce volumetric uncertainty including seismic reprocessing and geological and geophysical studies. The prospects will be economically evaluated and ranked prior to being short listed for further work. Future work on short listed prospect will also involve initial well planning for the drilling of exploration wells in the final selected prospect or prospects. It may be that the McLaren prospect can be drilled as part of the Somerville development project in 2024 or 2025 and this option is being evaluated. Any other prospects selected to be drilled would likely be drilled as vertical exploration wells, sometime following Phase I first gas which is scheduled for H2 2024.

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<sup>1</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.

<sup>2</sup> Hartshead Resources management estimates.

<sup>3</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.

Prospect	GIIP (Bcf)			Recoverable Volume (Bcf)			GCoS
	P90	P50	P10	1U	2U	3U	P50
Mclaren	34	47	63	18	27	39	0.54
Stephenson	47	58	73	36	47	60	0.43
Widdowson East	8	36	99	6	29	79	0.32
Widdowson Central	14	26	49	11	21	40	0.50
Lonsdale	7	20	38	5	16	31	0.50
Anderson	5	14	31	5	12	29	0.45
Garrod	24	74	177	16	52	125	0.50
Ayrton	36	107	206	25	74	146	0.41
Wenlock Prospect 1	6	28	79	4	19	55	0.36
Wenlock Prospect 2	1	8	27	1	5	19	0.36
Wenlock Prospect 3	2	7	24	1	5	17	0.36
FFs Prospect 1	5	15	37	3	11	26	0.41
FFs Prospect 2	12	27	52	8	19	37	0.35
FFs Prospect 3	6	13	24	4	9	17	0.34
<b>Arithmetic Total</b>	<b>205</b>	<b>480</b>	<b>980</b>	<b>143</b>	<b>344</b>	<b>719</b>	

Figure 1. Phase III exploration portfolio resource table highlighting 2U Prospective Resources.

When aggregated with the Phase I and Phase II 2C Contingent Resources (Figure 3), the inclusion of the new Phase III 2U Prospective Resources takes the potential recoverable gas volume of the current Hartshead portfolio to approximately 700 Bcf.

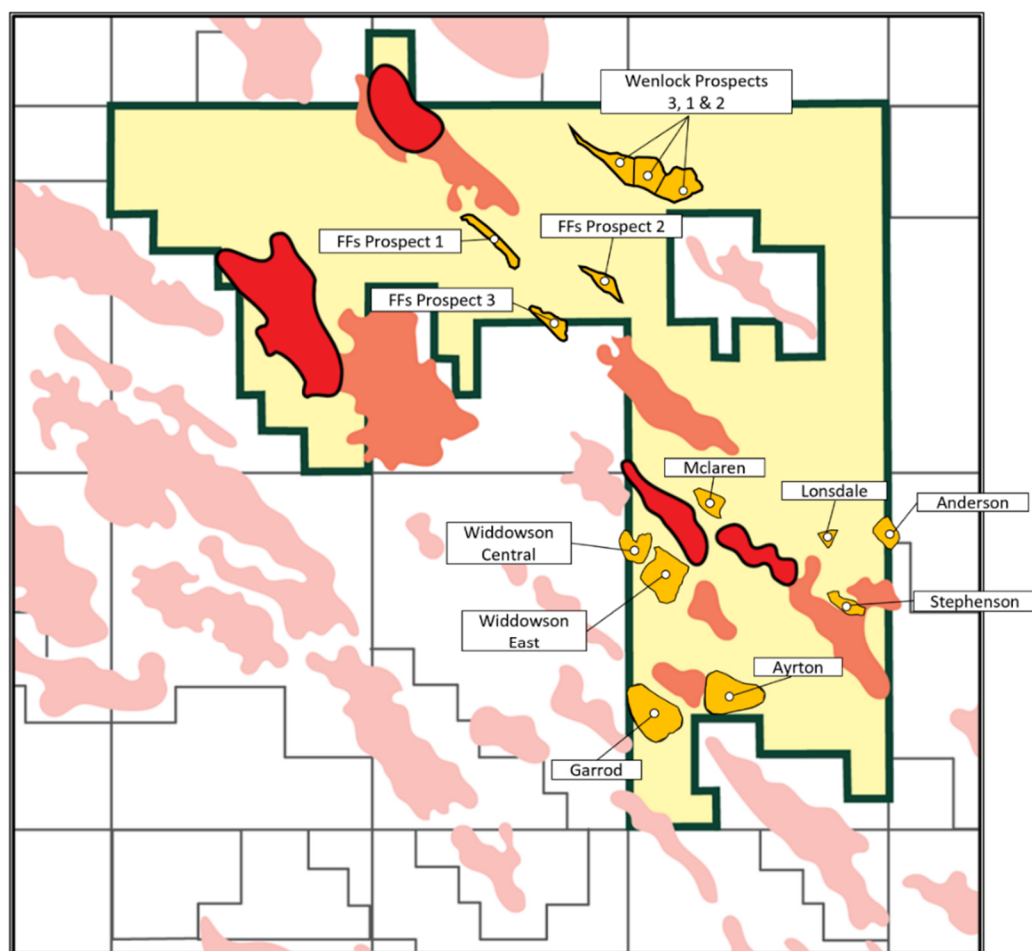


Figure 2. Phase III prospect inventory map showing new prospects locations.

		CONTINGENT RESOURCES <sup>3</sup> (Bcf)		
		1C	2C	3C
PHASE I	Anning	84	125	177
	Somerville	62	90	124
PHASE II	Hodgkin	35	100	387
	Lovelace	14	39	79
		PROSPECTIVE RESOURCES <sup>1</sup> (BCF)		
		1U	2U	3U
PHASE III	Exploration Prospects	143	344	719

Figure 3. Contingent and prospective resource volumetric across the Hartshead portfolio.

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## 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:

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## 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' 100% owned 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
ANNING	49/17b	84	125	177
SOMERVILLE	49/17b	62	90	124
COMBINED <sup>4</sup>	49/17b	161	217	285

CONTINGENT RESOURCES (BCF)			1C	2C	3C	GCOS
PHASE II	49/6c, 49/11c	Lovelace	14	39	70	100%
	48/15c	Hodgkin	35	100	387	100%

<sup>4</sup> Volumes combined stochastically to give portfolio volume

PROSPECTIVE RESOURCES <sup>1</sup>			P90	P50	P10	GCoS
PHASE III	49/17b	Garrod	29	56	94	50%
EXPLORATION	49/17b	Ayrton	43	85	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.

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### 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 Anning and Somerville 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 Hodgkin and Lovelace fields and the Prospective Resource information in relation to the Garrod and Ayrton 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.