

CORPORATE PRESENTATION

FEBRUARY 2024

Disclaimer:

FORWARD LOOKING STATEMENT:

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.

1	\sim		
/	<u>(</u>	<u> </u>	
	1	Ċ	
	ĽΞ		1
<u> </u>		-	/

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 information.

i

The volumetric estimates used to derive the estimates herein have been made by combining probabilistically derived estimates of initial in place gas volumes with assumptions regarding the gas recovery factors from analogous fields, such as the Clipper South and Babbage gas fields located in the UK Southern Gas Basin. 1 barrel of oil equivalent (boe) equates to 5,800 standard cubic feet (scf) of gas.

QUALIFIED PERSON'S STATEMENT

The Geo con

 \gg

The Reserves estimated in this announcement have been made by Dr Adam Law, Director, ERC Equipoise (ERCE), a post-graduate in Geology, a Fellow of the Geological Society and a member of the Society of Petroleum Evaluation Engineers. Dr Adam Law is qualified in accordance with ASX listing rule 5.41 and has consented to the use of Reserves estimates, and to the form and context in which these statements appear. The Reserves estimates presented in this report were originally disclosed to the market in announcement released on 23 June 2022.



ERC Equipoise Ltd. (ERCE) is a leading, employee owned, global energy consultancy headquartered in London with offices in Singapore, Kuala Lumpur and Perth. It's fully integrated team of Geoscientists, Engineers and Economists are specialists in Competent Persons reporting, reserves and resources auditing, technical services, commercial analysis and Expert advisory services. ERCE supports companies in traditional energy sectors as well as providing energy transition and sustainability services.



JA)

, where the second seco

The information in this announcement that relates to Reserves estimates is based on information compiled or reviewed by Mr Christopher Lewis. Mr Lewis has consented to the form and context in which the estimated Reserves and the supporting material are presented.

Hartshead has prepared the Contingent Resource and Prospective Resource information in this announcement in accordance with the ASX Listing Rules and the 2018 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 announcement released on 14 December 2020 and updated 8 March 2022 and 6 April 2022. Hartshead confirms that it is not aware of any new information or data that materially affects the information included in the aforesaid market announcements 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 II Hodgkin and Lovelace fields and the Prospective Resource information in relation to the Phase III exploration portfolio is based on information compiled by Mr Christopher Lewis and information complied by technical consultants contracted to Hartshead which has been subsequently reviewed by Mr Christopher 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 holds 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.

Corporate Information ($\underline{\mathring{n}}$)

This presentation is dated 12th February 2024 and is authorised to be given to ASX by the Board of Directors of Hartshead Resources NL. The address of Hartshead Resources NL is 333C Charles Street, North Perth WA 6006 and its website is www.hartshead-resources.com.au. Shareholders, investors and other interest parties can contact Nathan Lude, Executive Director, on +61 8 9226 2011 or at info@hartshead-resources.com.

Corporate Profile

Board and Management incentivised through material shareholding

Capital Structure	Current	Company Directors & Officeholders 🗦	
ASX Code	HHR.ASX	Executive Chairman	Bevan Tarratt
Last Closing Share Price (12 February 2024)	A\$0.021	CEO & Managing Director	Chris Lewis
Shares on Issue ¹	2,808,682,128	Executive Director	Nathan Lude
Partly Paid Shares on Issue ²	5,703,550		
Market Capitalisation (12 February 2024)	\$59m	Company Secretary	Matt Foy
Cash and cash equivalents ³	\$28m		
Enterprise Value	\$31m		

Notes

- 01 Includes fully paid ordinary shares on issue only
- **02** Partly paid shares have an issue price of \$0.20, of which \$0.01 is paid. The balance of the issue price is payable at the election of the holder
- **03** Current cash as December 31st 2023

Project Management Team

Deep Management experience within oil & gas sector, particularly UK North Sea





- Over 40 years' upstream oil & gas experience
- Managed 14 UK Southern Gas Basin developments and infrastructure projects
- Track record of delivering successful UK capital projects



SIMON HAWORTH Subsurface Manager

- Internationally experienced Geoscientist with over 20 years' experience in
- Held varied roles in subsurface studies and portfolio optimisation in the UK North Sea, Australian northwest shelf, Papua New Guinea and the Netherlands
- Spent the majority of his career with Shell and also held roles with Oil Search, Nexen and a variety of service companies



DON FERGUSON

Operations

Manager/Advisor

- Founder of UK SNS focussed Highland Energy and Caledonia Oil & Gas, both having highly successful growth and exit histories
- From 2007 to 2011 was a Director at First Reserve Corporation - serving as Board advisor for two North American E&P companies



STEVE ROSER Commercial Manager

- Negotiator with over 30 years' experience
- Extensive track record in delivery of major oil and gas projects
- Extensive experience of UK Southern Gas Basin and wider UKCS



KEITH BUSH Chief Operating Officer

- Over 30 years' petroleum engineering and executive leadership in upstream oil and gas
- Extensive experience managing SNS production and development assets
- Former COO and CEO of UK listed international E&P company

Board of Directors

Proven corporate experience in the oil & gas sector



 \bullet

P2607 Production & Development Area

Three phases of development

Phased development of c. 800 Bcf total resource



 \geq _

- Phase I **301.5 Bcf** 2P Reserves
- Phase II **139 Bcf** 2C Contingent Resources
- Phase III 344 Bcf 2U Prospective Resources
- Phase I CAPEX supports infrastructure investment for future phases

Delivery to the UK / European gas market

• Planned via HHR pipeline to existing infrastructure



Company Highlights

Farm-out to RockRose Energy provides a clear pathway to first cashflows



Note 2: Implied value only. Does not include value for the Company's existing cash or the value of consideration to be received under the Farm-out Note 3: Based on Phase 1 consideration only

Fully Funded for Development

Advancing Phase I Development of Anning and Somerville

Option to divest additional **20%** of licence interest for an **uncapped free carry** provided by RockRose, covering the total costs of the Phase 1 project development

Exercising the Financing Backstop would increase the total committed project funding to over **A\$800 MILLION.**



20% project equity interest, provides security of funding for **100% of Phase 1** project development costs.

Option to **retain 40% interest via alternative financing,** whilst ensuring ability to progress Final Investment Decision and advance towards gas production and cashflows.

Transaction Structure and Implied Valuation

Significant uplift compared to HHR's current trading metrics

FARM-OUT TRANSACTION STRUCTURED TO OPTIMISE TAX RELIEF AVALIABLE FROM UK ENERGY PROFITS LEVY (EPL)

Phase I - 301.5 Bcf

- Aggregated cash consideration, development carry and investment allowance yields an implied valuation of A\$327 million
- A\$6.20 per boe of Phase I 2P Reserves (US\$4.1/boe)
- **91.4% tax relie**f available to RockRose Energy from EPL investment allowances applied to Phase I Earn-In Costs
- Hartshead to transfer Operatorship to RockRose post FID:
- Transformational Farm-out transaction delivers:
 - A\$148 million of Phase I development capital
 - RockRose as an established UK North Sea Independent JV partner



Source: LAB Energy Advisors figures quoted in US dollars.

Key Milestones in Asset Advancement

Accretive milestones in portfolio development



Phase 1 Development

Development

o <u>∓</u> o ×)///

Field Development Plan (FDP) submitted to NSTA (June 2023)

ERCE audited 2P Reserves estimate 301.5 Bcf

- 1P estimate is 180 Bcf
- Six production wells
- Peak producti
- Peak production rate estimated at c. 140 mmscf/d
 - Approximately 160 TJ/d

Greenfield Development Concept Identified

- Two minimum facility, unmanned platforms
- Export via subsea pipeline and existing infrastructure
- Gas delivery to UK / European market





ANNING + SOMERVILLE MONTHLY RAW GAS PRODUCTION FORECASTS



•

Phase II Development

Hodgkin & Lovelace



Phase III Development

Exploration Opportunities on Licence P2607



Seismic

A review of the prospective resources was conducted for P2607 in 2022 which was carried out on subsets of the PGS Megamerge and PSTM surveys



Exploration inventory

Pure exploration inventory now totals 13 prospects with further opportunities being evaluated and updated within the P2607 licence. McLaren prospect may be accelerated as part of the Phase I development

Chance of Success

Geological chance of success ranges from 32-54% with an arithmetic averages of 43%. Further evaluation will seek to de-risk the portfolio through the acquisition of new PGS Vision seismic and QI workflows



8

Timing

Network backfill timing and reserves acceleration optimisation studies will be evaluated to ensure maximum value for shareholders



High Grading

Within the portfolio several opportunities have been high-graded for further technical evaluation, subject to partner approval

High value opportunities

Upfront investment in the Phase I Anning and Somerville development & export route makes the value of follow on projects significantly higher



UK Gas Market and New UK Energy Security Strategy

Conflict in Ukraine has highlighted UK energy security of supply as a new strategic priority

New UK Energy Security Strategy renews focus on maximising use of domestic resources



- Russia has terminated gas supply contracts with several EU countries with energy rationing now underway in Germany
- Europe competing with highly priced LNG cargoes destined for SE Asian markets resulting in an expansion in European regasification capacity
- Hartshead Phase I development will benefit from the UK Government's focus on bringing new developments on stream faster and more efficiently

Energy security unlikely to be satisfied in near/mid-term via renewables and nuclear power



- Intermittency issues around renewables implies an ongoing dependency on gas-fired (CCGT) generation
- Record levels of power imported from Europe via interconnectors (7.8GW capacity)
- UK's remaining coal power stations due to close in 2024 and nuclear capacity being retired
- New power capacity likely to be met by CCGT generation requiring more ٠ natural gas from the UKCS or LNG imports





ERCE (Base Case) NBP Gas Price Assumptions



Annexure



Energy Profits Levy – Super-deduction

New Investment Allowance creates super deduction against project costs and mitigates CAPEX escalation



Investment & Capital Allowance is a "super-deduction" introduced to enhance domestic UK Oil and Gas production



91.4% deduction on CAPEX spend



109% deduction for CAPEX on decarbonisation items

Allowance provides significant protection from cost inflation



- \$100m increase in capex has \$8.6m cost post allowance
- \$100m increase in decarbonisation items results in \$9m gain post allowance



Items in decarbonisation include wind turbines, solar panels and battery storage etc



Existing Gas producers are actively seeking investments in developments to take advantage of the allowance



Improved Project Economics with Energy Profits Levy (EPL) Farminee Economics

Phase I Development

Anning Gas Field



Phase I Development

Somerville Gas Field



Project Economics

Robust Phase I economics with Phase 2 & 3 to further increase value



Note 1: For full details please refer to ASX Announcement dated 23 June 2022. The Company confirms that all material assumptions in the ASX Announcement continue to apply and have not materially change. Note 2: The company is in the process of preparing an updated NPV post completion of FEED and FDP, as part of the FID decision making process

Resource Base

2P Reserves and 2C contingent Resources c.440 BCF across four discoveries



		RESERVES ^{1,2}		1P	2P	ЗР
49/17b	/9/17h	Anning	Sales Gas (Bcf)	73	145	245
		Condensate (MMbbl)	0.081	0.192	245 0.375 213 0.325	
49/17b	Somerville	Sales Gas (Bcf)	107	156.5	245 0.375 213	
	Joinerville	Condensate (MMbbl)	0.119	0.208	0.325	
			Total (MMboe)	31.2	52.4	79.7

¹ Reserves estimates are from ERC Equipoise Limited, Independent Competent Persons Report (CPR) entitled "Hartshead Resources NL Somerville and Anning Competent Persons Report" dated June 2022. See Qualified Persons Statement for reserves reporting notes. ² First reported on 23 June 2022

CONTINGENT RESOURCES ^{3,4} (BCF)			1C	2C	ЗC	GCoS
PHASE II	49/6c, 49/11c	Lovelace	14	39	79	100%
	48/15c	Hodgkin	35	100	387	100%
PROSPECTIVE RESOURCES ^{3,5,7} (BCF)			1C	2C	3C	Average GCoS
PHASE III EXPLORATION	P2607	14 Prospects	143	344	719	42%

³ Hartshead management estimates ⁴ First reported on 14 December 2020

⁷ 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.

Exploration Prospect Inventory

Phase III

PROSPECT	RECOVERABLE VOLUME (BCF) ^{3,5,7}			GCOS	
	1U	2U	3U	P50	
Mclaren	18	27	39	0.54	
Stephenson	36	47	60	0.43	
Widdowson East	6	29	79	0.32	
Widdowson Central	11	21	40	0.50	
Lonsdale	5	16	31	0.50	
Anderson	5	12	29	0.45	
Garrod	16	52	125	0.50	
Ayrton	25	74	146	0.41	
Wenlock Prospect 1	4	19	55	0.36	
Wenlock Prospect 2	1	5	19	0.36	
Wenlock Prospect 3	1	5	17	0.36	
FFs Prospect 1	3	11	26	0.41	
FFs Prospect 2	8	19	37	0.35	
FFs Prospect 3	4	9	17	0.34	
Arithmetic Total	143	344	719		

³ Hartshead management estimates ⁵ First reported on 8 March 2022

⁷ 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.

ESG Vision and Goals

Developing an ESG strategy with impact, that aligns with our core values



Hartshead are focused on developing an ESG strategy that is relevant to a growing European gas development company

Our ESG planning process to date has developed a materiality assessment utilising the Global Reporting Initiative (GRI) 11 Oil & Gas 2021 Sector Standard.

We have identified three key pillars of focus, but recognise significant overlap as part of our business ecosystem:

Environmental Stewardship



Partner of Choice



We are currently working to define relevant and specific measurable targets to enable us to monitor, report, and continually improve our performance against reportable ESG benchmarks



Net Zero Emissions & the Energy Transition

Southern gas basin has a central role to play in the UK energy security and 2050 net zero target

Growing UK gas import dependency points to greater future reliance on LNG volumes



 \mathbf{O}

Ο

О

 \square

- Lower carbon intensive domestic gas is critical to the UK 2050 net zero target as import dependency grows
- Domestic UK gas production has less than half the average emissions intensity than imported LNG
- "Green LNG", shipping costs and competition from SE Asia for LNG cargoes likely to lead to increased pricing



Future hydrogen-led Bacton Energy Hub identified by the NSTA



- Bacton is Hartshead's planned processing terminal and gas could be used as feedstock for Blue Hydrogen
- Natural gas will also provide critical UK domestic & commercial heating support until hydrogen replacement is established
- Wind infrastructure within Bacton Catchment Area could provide power to offshore installations
- Hartshead offshore infrastructure could be used in future carbon capture and electrification projects



CONTACT

Email: info@hartshead-resources.com Web: hartshead-resources.com

