



HARTSHEAD RESOURCES NL

Corporate Presentation

APRIL 2022



HARTSHEAD RESOURCES NL

FORWARD LOOKING STATEMENT



The material in this presentation has been prepared by Hartshead Resources Limited ("Hartshead") and is general background information about Hartshead's activities current as at the date of this presentation. This information is given in summary form and does not purport to be complete. Information in this presentation, including forecast financial information, should not be considered as advice or a recommendation to investors or potential investors in relation to holding, purchasing or selling securities or other financial products or instruments and does not take into account your particular investment objectives, financial situation or needs.

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Corporate Information

This presentation is dated 6 April 2022 and is authorised to be given to ASX by the Board of Directors of Hartshead Resources NL. The address of Hartshead Resources NL is Level 1 89 St George's Terrace Perth WA 6000 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.



HARTSHEAD RESOURCES NL

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 announcements released on 14 December 2020 and updated on 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 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 Mr Christopher Lewis and information complied by technical consultants contracted to Hartshead which has been 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 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. 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 Resources NL 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.



GAS DEVELOPMENT COMPANY POISED FOR GROWTH

UK Southern Gas Basin Focus



- Southern Gas Basin development company with a multi-phased portfolio of discovered gas resources
- Phase I assets provide a platform to secure a gas transportation route and 3rd party infrastructure access
- Opportunity to leverage planned infrastructure and create aggregation "hubs" of stranded gas pools



Phased Portfolio Development

- Resource of ~0.8 Tcf of very high quality gas
- Phase I development of Anning (Victoria) and Somerville (Wx) fields: Concept Select Report Q2 2022
- Phase II development of Hodgkin (Audrey NW) and Lovelace (Tethys N)
- Phase III new exploration prospect inventory





- Team has successfully managed multiple Southern Gas Basin projects/companies
- Seasoned skill-set Subsurface through engineering, commercial, HSEQ and capital markets
- Team members were part of successful exits of Highland Energy and Caledonia Oil & Gas



Material Contingent Resources

- 2C contingent resources of **463 Bcf**^{1,2} in four gas fields
- Phase I 2C contingent resources of 324 Bcf^{1,2}
- Phase II 2C contingent resources total 139 Bcf1 and Phase III 2U prospective resources of 344 Bcf1





- Southern Gas Basin is a key component of the UK's strategic energy security and 2050 net zero target
- License located within the Bacton Catchment Area with access to renewable offshore electrification
- Potential for Hartshead gas to provide feedstock for Blue Hydrogen production at Bacton Energy Hub

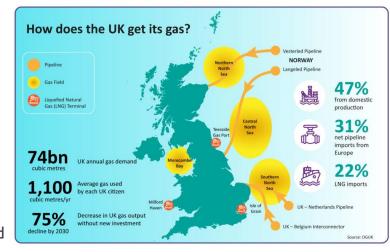


¹Hartshead management estimates ² First reported on 14 December 2020

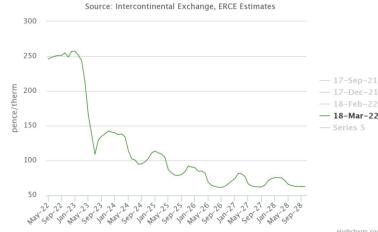
UK GAS MARKET AND SECURITY OF SUPPLY

CONFLICT IN UKRAINE HAS HIGHLIGHTED UK ENERGY SECURITY OF SUPPLY AS A NEW STRATEGIC PRIORITY

- UK import dependency and supply-side constrains are driving near-term gas pricing and a renewed focus on remaining UKCS gas reserves
 - Europe is competing with highly priced LNG cargoes destined for SE Asian markets and will likely result in an expansion in European regasification capacity
 - Lower Russian volumes are entering the EU, Nordstream-2 has been cancelled and Norwegian volumes are being diverted to Europe
 - o Russia accounts for less than 5% of UK gas imports, but more than 35% of Europe's imports
- UK NBP futures indicate pricing in excess of £1 per therm in late 2024 when first gas is envisaged from the Phase I projects (approximately A\$14 per G|)
- · Energy security is unlikely to be satisfied in the near to mid-term via renewables and nuclear power
 - Intermittency issues around renewables, such as wind and solar, implies an ongoing dependency on gas-fired (CCGT) generation
 - Record levels of power being imported from Europe via interconnectors (7.8GW capacity)
 - UK's two remaining coal power stations due to close in 2022 and 2024 and nuclear capacity being retired
 - New power capacity likely to be met by CCGT generation due to faster planning and approvals process – will require more natural gas from the UKCS or LNG imports



UK Natural Gas - NBP Futures Curve Chart





DIVERSIFIED PORTFOLIO

- MULTIPLE GAS FIELD DEVELOPMENT AND EXPLORATION **OPPORTUNITIES**
 - FIELDS HAVE HISTORICALLY PRODUCED GAS

PHASE I

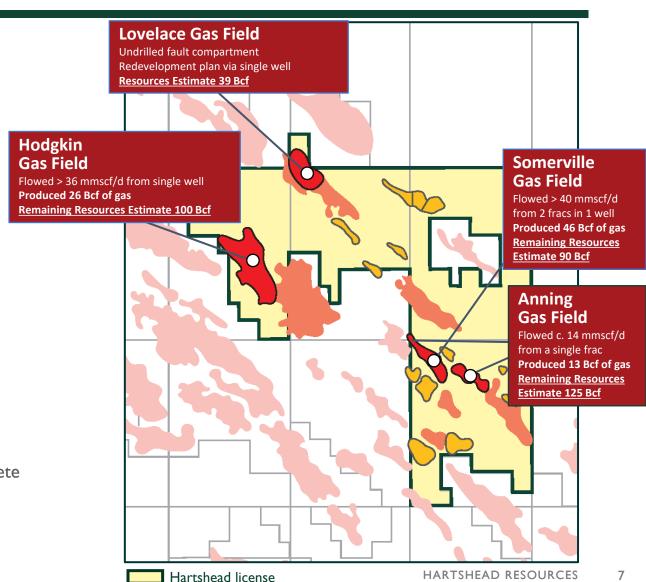
- Anning and Somerville Gas Fields joint development
- Combined 2C resources of 324 Bcf.
- Concept Select Phase nearing completion

PHASE II

- Hodgkin and Lovelace joint development
- Combined 2C 139 Bcf
- Detailed subsurface work nearing completion

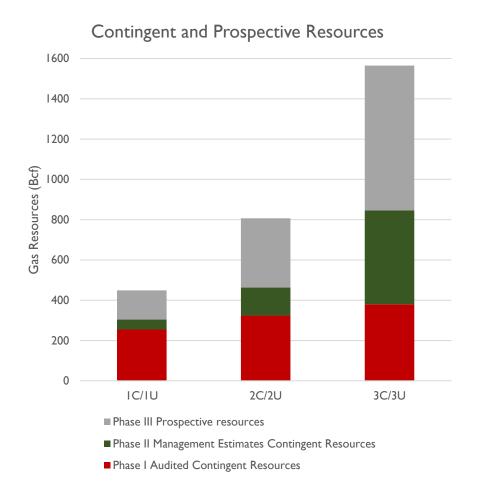
PHASE III

- Generation of new exploration prospect inventory complete
- 14 prospects mapped in total
- Combined unrisked 2U Prospective Resource of 344 Bcf



RESOURCE BASE

2C CONTINGENT RESOURCES C.463 BCF ACROSS FOUR DISCOVERIES



CONTINGENT R	CONTINGENT RESOURCES ^{1,2} (BCF)			2C	3C	GCoS
PHASE I	49/17b	49/17b Anning		130	160	100%
PHASET	49/17b	Somerville	160	194	220	100%
DUACEU	49/6c, 49/11c	Lovelace	14	39	79	100%
PHASE II	48/15c	Hodgkin	35	100	387	100%

PROSPECTIVE RESOURCES ³ (BCF)			1U	2U	3U	Average GCoS
PHASE III EXPLORATION	P2607	14 Prospects	143	344	719	42%

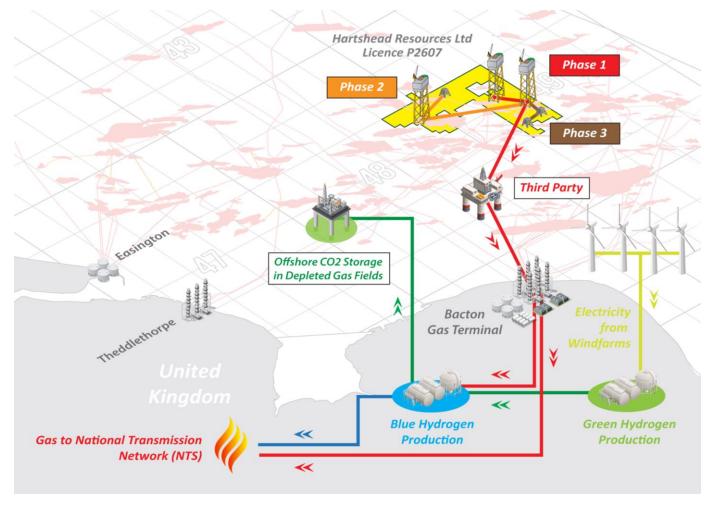
³ Prospective resources are estimated quantities of petroleum that may potentially be recovered by the application of a future development project(s) and relate to undiscovered accumulations. These prospective resources estimates have both an associated risk of discovery and a risk of development. Further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



P2607 PRODUCTION & DEVELOPMENT AREA

THREE PHASES OF DEVELOPMENT

- Phased development of c. 800 Bcf total resource
 - Phase I & II 463 Bcf 2C Contingent Resources
 - Phase III 344 Bcf 2U Prospective Resources
 - o Phase I supports infrastructure investment
- Delivery to Bacton Gas Terminal
 - Via third party infrastructure & HHR pipeline
- Bacton Energy Hub initiative launched by UK government to promote H2 generation
 - Hartshead gas potential feedstock for Blue H2
 - OGA estimate Bacton Energy Hub will require up to an estimated 2 Tcf in additional demand for gas at Bacton⁴
 - Combined with offshore CCS
 - HHR team contributing to several special interest groups formed to progress Bacton initiative

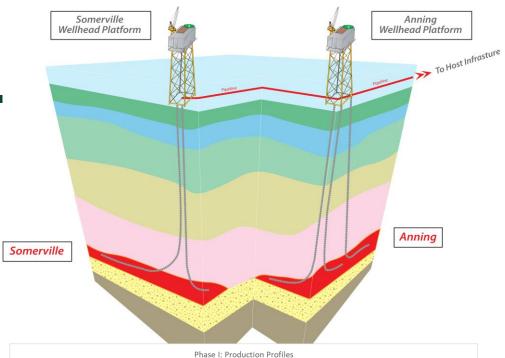


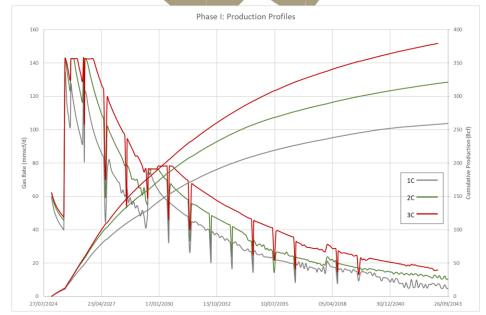


PHASE I DEVELOPMENT

DEVELOPMENT

- 2C resources estimate 324 Bcf
 - o IC estimate is 255 Bcf
 - Six production wells
- Peak production rate estimated at c. 140 mmscf/d
 - Approximately I60 TJ/d
- Greenfield Development Concept Identified
 - Two minimum facility, unmanned platforms
 - Export via third party infrastructure
 - o Gas delivery to Bacton Gas Terminal
- Phase I infrastructure can then be used to monetise Phase II and Phase III resources



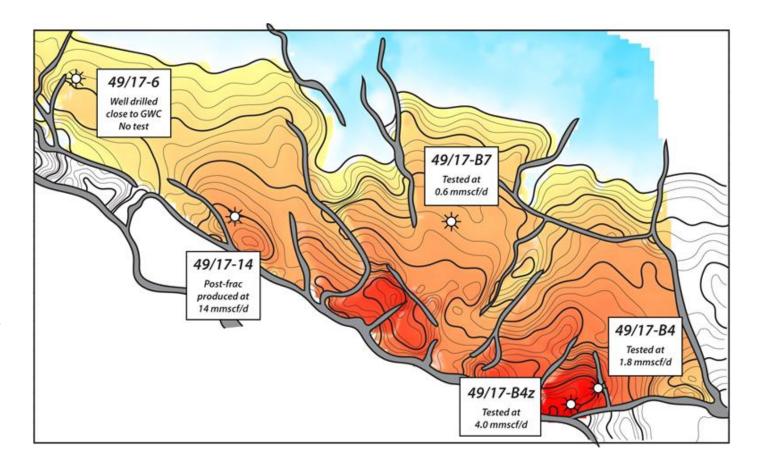




PHASE I DEVELOPMENT

ANNING GAS FIELD

- 2C Resources of I30 Bcf
 - GIIP 218 Bcf
- Planned development:
 - Three horizontal multi-frac wells
 - o Minimum facility unmanned platform
 - Gas export to third party host
 - o Gas delivery to Bacton Gas Terminal
- Historical Single Frac in well 49/17-14
 - o Initial production at 14 mmscf/d
 - EUR 13 Bcf from this well

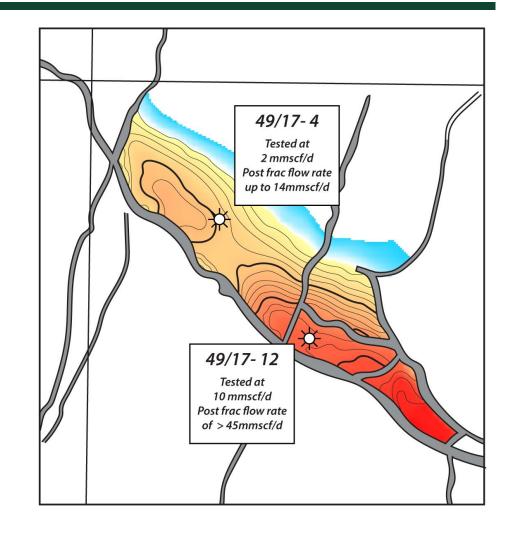




PHASE I DEVELOPMENT

SOMERVILLE GAS FIELD

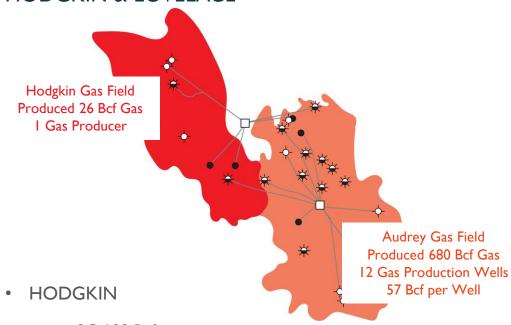
- 2C Resources of 194 Bcf
 - Increase in GIIP (368 Bcf) & Resources following revised subsurface modelling
- Planned development:
 - Three horizontal multi-frac wells
 - o Minimum facility unmanned platform
 - Gas export to third party host
 - o Gas delivery to Bacton Gas Terminal
- Historical Two Fracs in well 49/17-12
 - Initial production > 45 mmscf/d
 - o EUR 46 Bcf





PHASE II DEVELOPMENT

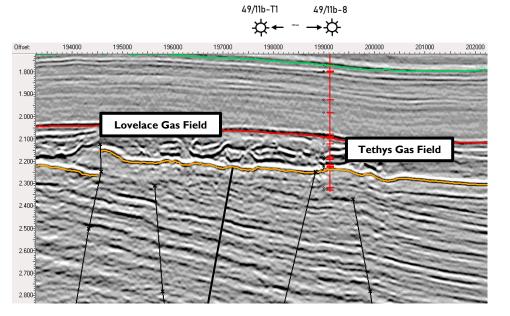
HODGKIN & LOVELACE



- o 2C 100 Bcf
- o Subsurface work ongoing to refine reservoir model
- Revised resource estimate Q1 2022
- Decision on field development planning Q2 2022
- Single well historically produced 26 Bcf
- Current mapping indicates significant undeveloped volumes

LOVELACE

- o 2C 39 Bcf
- o Likely depends on Audrey development to support infrastructure
- Single well to south of field produced 18 Bcf
- Mapping indicates GIIP in northern structural compartment of 130 Bcf

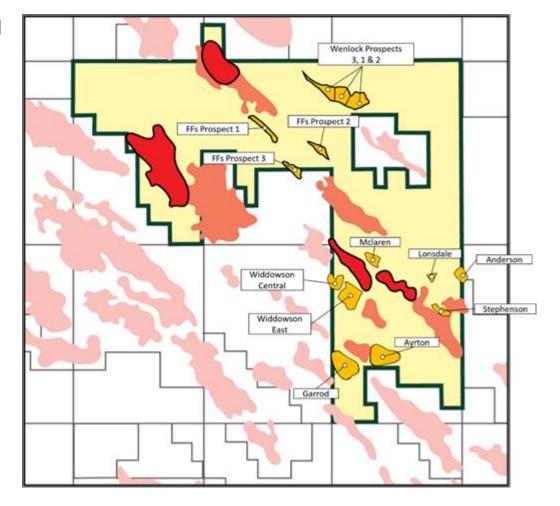




PHASE III DEVELOPMENT

EXPLORATION PROSPECTS TO FOLLOW UP PHASE I AND II

- Xodus Group exploration study has identified 12 new exploration prospects
- All prospects are undrilled structural traps within the Rotliegendes Reservoir
- Phase III exploration inventory now totals 14 prospects
- Phase III 2U Prospective Resources total 344 Bcf (un-risked)
- Prospect geological chance of success (GCoS) ranges from 32% to 54% across the exploration portfolio (arithmetic average GCoS 43%)
- High grading of inventory will see prospects economically evaluated and ranked prior to the selection of a prospect for drilling
 - Potential for the McLaren prospect to be drilled as part of the Somerville development in 2024 or 2025

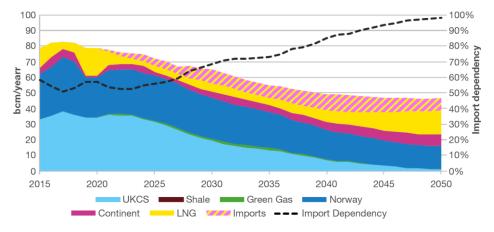




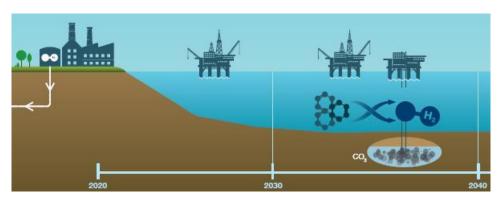
NET ZERO EMISSIONS & THE ENERGY TRANSITION

SOUTHERN GAS BASIN HAS A CENTRAL ROLE TO PLAY IN THE UK ENERGY SECURITY AND 2050 NET ZERO TARGET

- A growing UK gas import dependency points to greater future reliance on LNG volumes
 - 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 OGA
 - 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



Source: nationalgridESO - Future Energy Scenarios (July 2021)



Source: OGA Bacton Energy Hub Study 2021

UK NORTH SEA PEER GROUP TRADING AND EXIT MULTIPLES

HARTSHEAD IS TRADING AT A MATERIAL DISCOUNT TO ITS NORTH SEA PEERS

Company	2P Reserves	Contingent (2C)	Prospective (P50)	EV	2P/2C	EV/2C	EV/2P	EV/(2P+2C)
	(mmboe)	Resources (mmboe)	Resources (mmboe)	(US\$ millons)	Ratio	(US\$/boe)	(US\$/boe)	(US\$/boe)
IOG	28.1	11.4	22.1	354.8	2.5	31.1	12.6	9.0
Kistos	25.9	104.7	22.0	565.0	0.2	5.4	21.8	4.3
Serica Energy	61.0	0.0	111.7	1,143.3	0.0	0.0	18.7	18.7
EnQuest	189.0	279.0	450	1,996.2	0.7	7.2	10.6	4.3
Average					1.1	14.6	15.9	9.1
Hartshead Resources NL	0	55.9	0	25.3	0.0	0.5	0.0	0.5

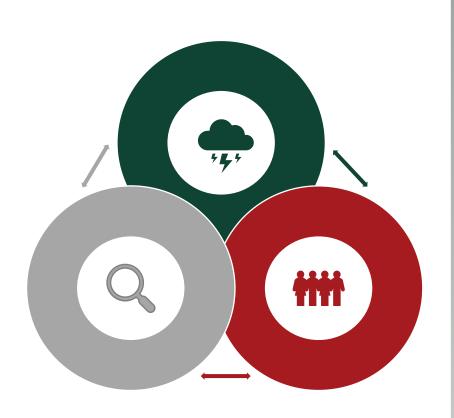
Equity prices as at close on 1 April 2022

Vendor	Acquirer	Asset(s)	Consideration (US\$)	Net 2P + 2C Reserves & Resources	EV/(2P+2C) (US\$/boe)
IOG	CalEnergy	50% of UK SNS Assets	94.0	35.3	2.7
Tulip Oil NV	Kistos	Q-10A, Q10-B, Q11-B and M10/M11	262.6	90.2	2.9
TotalEnergies	Kistos	20% of GLA WoS (UK)	125	8.8	14.2
E.On	Premier Oil	UK Gas Portfolio	120	38	3.2
SSE	Viaro	UK Portfolio	164	30	5.5
Average					5.7



ESG STRATEGY

ESG IS INTEGRAL TO THE DEVELOPMENT OF HARTSHEAD'S BUSINESS





- Emissions impact assessment over project life to form part of the Phase
 I Concept Select
- Intention for unmanned platforms to use renewable energy sources e.g. wind power
- Anticipated use of low carbon impact biodiesel for periods of manned platform activity and/or higher power generation requirements
- Platforms to potentially utilise topside facilities and process equipment with minimal connections to reduce CH₄ emissions



Social

- Multiple stakeholder engagement underway
 - OGA: Inclusion within Bacton Energy Hub Special Interest Groups
 - BEIS: Appointment of Hartshead Environmental Management Team Liaison Manager
- New Safety and Environmental Management System (SEMS) being implemented across Hartshead operations



Governance

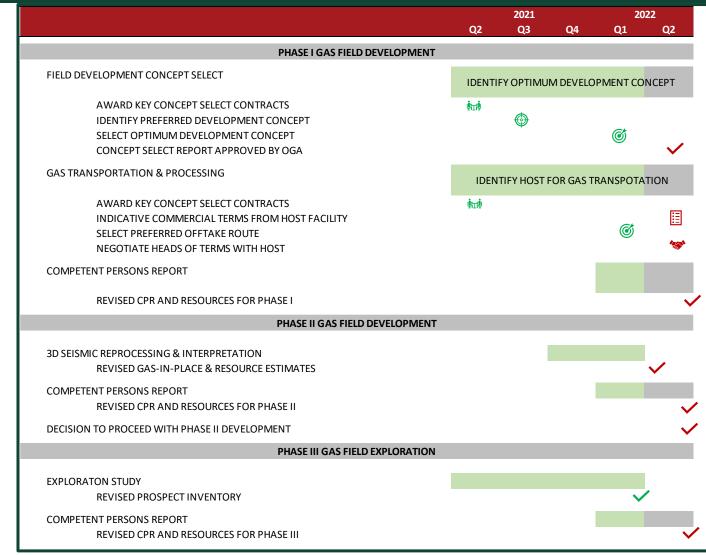
- ASX compliant Corporate
 Governance Statement updated each year
- New ASX ESG reporting standards guidance
- Adoption of ASX Corporate
 Governance Council benchmark
 Principles 7.4
- New Business Management System (BEMS) implemented across Hartshead operations
- Executive renumeration subject to peer group benchmarking analysis



NEXT STEPS

NINE MONTH OUTLOOK

- Activities across all three phases
- All workstreams now underway





CONTACT

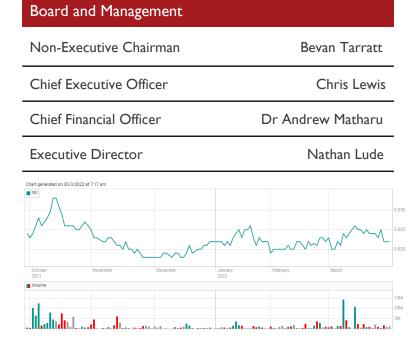
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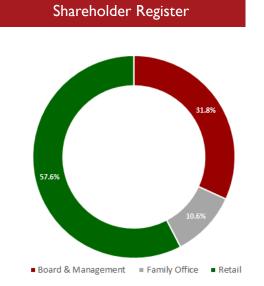


APPENDIX I - CORPORATE PROFILE

BOARD AND MANAGEMENT INCENTIVISED THROUGH MATERIAL SHAREHOLDING

Capital Structure	
Market:	ASX
ASX Code	HHR
Share price (01/04/2022)	A\$0.021
Total Ordinary shares	1,849,772,127
Partly Paid Shares	5,703,550
Options	20,000,000
Performance Rights	108,884,991
Market Capitalisation	A\$39 million
Cash and cash equivalents*	~ A\$4.7 million







^{*}As reported at 31 December 2021 (HHR Interim Report to 31 December 2021)

APPENDIX II – RESOURCE ESTIMATES

PHASE I – AUDITED CONTINGENT RESOURCES BY OPC

	CONTINGENT RESOURCES ⁵ (Bcf)					
PHASE I PROJECTS		1C	2C	3C		
Anning	49/17b	84	125	177		
Somerville	49/17b	62	90	124		
Combined [†]	49/17b	161	217	285		

PHASE II AND III – MANAGEMENT'S ESTIMATE OF CONTINGENT AND PROSPECTIVE RESOURCES

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

PROSPECTIVE RESOURCES ³ (BCF)		1U	2 U	3U	Average GCoS	
PHASE III EXPLORATION	P2607	14 Prospects	143	344	719	43%



⁵ Volumetric estimates are from Oilfield Production Consultants (OPC) Ltd, Independent Competent Persons Report (CPR) entitled "Contingent Resources Review and Audit (Anning and Somerville)" dated October 2020. See Qualified Persons Statement for contingent resource reporting notes

APPENDIX III – RESOURCE ESTIMATES

PHASE III – EXPLORATION PROSPECT INVENTORY

Prospect		GIIP (Bcf)		Recov	erable Volume	e (Bcf)³	GCoS
	P90	P50	P10	1 U	2 U	3 U	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
Arithmetic Total	205	480	980	143	344	719	



APPENDIX IV – BOARD OF DIRECTORS

ENTREPRENEURIAL BOARD WITH PROVEN CORPORATE EXPERIENCE IN THE OIL & GAS SECTOR



Bevan Tarratt
Non-Executive Chairman

- Bevan has an extensive background in the corporate and financial services industries having worked in various accounting and corporate broking firms for the past 15 years.
- Bevan has significant experience in the recapitalisation, restructuring and acquisition of assets for numerous ASX companies and was a Client Advisor at Patersons Securities and Partner of a venture capital firm.
- Well experienced in executive and non-executive board roles with over 20 years of experience.



Chris Lewis
Chief Executive Officer

- Chris is a geophysicist and oil & gas professional with 25 years+ experience
- Experience gained with a spectrum of oil majors, small-mid caps, start-ups and consultancies
- Executive and board experience with geographical expertise in Africa, North Sea, CEE and Australasia
- Successful monetisation with Centric Energy, Lion Petroleum, ZETA Petroleum and Blackstar Exploration.



Andrew Matharu
Chief Financial Officer

- Andy has 25 years+ experience across the oil & gas industry and equity capital markets
- Commenced career as a Petroleum Engineer with Chevron and Kerr McGee in the UK North Sea
- Experience gained in corporate advisory, strategy, M&A and business development
- Experience of financing numerous small to mid-cap E&P and services companies
- VP Business Development at Tower Resources plc – corporate & asset M&A and capital raisings.



Nathan Lude Executive Director

- Nathan has broad experience working in Asset Management, Mining and the Energy Industry.
- Nathan is well experienced in project identification and project development for multiple ASX companies
- Previous roles include Business
 Development Management role
 for a large Canadian energy
 company and Executive Director
 roles for a number of ASX-listed
 companies.
- Nathan's business network spreads across Australia and Asia and has strong ties with Australian broking firms, Australian and Asian institutions and investors.



APPENDIX IV – PROJECT MANAGEMENT TEAM

BROAD AND DEEP MANAGEMENT EXPERIENCE WITHIN OIL & GAS SECTOR AND UK NORTH SEA



Jeff Barnes
Project Developments Manager

- Seasoned industry player with over 40 years' upstream oil & gas experience
- Managed 14 UK Southern Gas
 Basin developments and
 infrastructure projects within his
 31-year tenure at ConocoPhillips
 (UK) Limited
- Industry recognised within the UK Southern North Sea with a track record of delivering successful UK capital projects
- Previously Director of New Ventures at ODE (Offshore Design Engineering) Limited and a member of ODE's Executive Management Board Jeff has operated at Director and Project Management levels across UK and international business.



Steve Roser Commercial Manager

- Proven commercial manager and seasoned negotiator with over 30 years' experience
- Extensive track record in delivery of major projects in the upstream oil & gas sector
- Extensive experience of UK
 Southern Gas Basin and wider
 UKCS during commercial
 management roles within British
 Gas, Amerada Hess and Phillips
 Petroleum
- Since 2003 has acted for energy majors, utilities and AIM-listed companies in the role of Commercial Advisor, often working at CEO or Operations Director level
- Former board Director of Interconnector UK Limited.



Neil Marcus Subsurface Manager

- Professional engineer with 40 years' experience in the upstream oil and gas business
- Early career working on North Sea Projects in the UK and Norway with Conoco
- Subsequently worked on assignments with Premier, BHP, Repsol YPF and Cairn on development projects in Pakistan, Algeria, Argentina and India
- From 2009 to 2017 focused on the UK Southern Gas Basin, where he led the development of the Clipper South tight gas field for RWE and Ineos.



Don Ferguson
Operations Manager/Advisor

- 37 years' experience and trained as a Petroleum Engineer with Conoco in the UK and internationally
- Founder shareholder 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
- COO of Hansa Hydrocarbons, an E&P company focused on the UK and Dutch sectors of the SNS which exited to Discover Exploration in 2018.



APPENDIX IV – PROJECT MANAGEMENT TEAM

BROAD AND DEEP MANAGEMENT EXPERIENCE WITHIN OIL & GAS SECTOR AND UK NORTH SEA



Adam King Procurements Manager

- Adam has 30 years' experience in a variety of roles with Worley Parsons, Snamprogetti, British Gas, BP Exploration, Nexen Petroleum and the UK Southern Gas Basin with RWE
- Acted as contracts specialist on projects ranging from TengizChevroil, Kashagan, Azeri-Chira/Shah Deniz and Deepwater Angola Block 31 through to UKCS developments such as Buzzard, Golden Eagle and Breagh
- Adam's skill-set encompasses the pre- and post-contractual service stages of tendering, cost advice and contracts planning.



Steve Smith QHSE Manager

- 40 years experience in engineering and upstream oil & gas Health, Safety and Environment (HSE) and Quality Assurance; Steve is industry recognised within QHSE
- Steve has worked with numerous UK North Sea operators including British Gas, Total, Wintershall, Highland Energy, RWE Dea and Hansa Hydrocarbons, Alpha Petroleum managing all aspects of their QHSE requirements
- Extensive experience in QHSE Management System Development, Emergency Response Management and Training, and Contingency Planning.

