## **PROJECT ICEWINE**

**NORTH SLOPE OF ALASKA** 





### **Disclaimer**



The information contained in these slides has been prepared by 88 Energy Limited (the "Company"). The information contained in these slides, the presentation made to you verbally and any other information provided to you (in writing or otherwise) in connection with the Company and its business (the "Presentation Materials") is subject to updating, completion, revision, verification and amendment without notice which may result in material changes. The Company, in its sole discretion, reserves the right to amend or supplement these Presentation Materials at any time.

The Presentation Materials have not been approved by the London Stock Exchange plc or by any authority which could be a competent authority for the purposes of the Prospectus Directive (Directive 2003/71/EC). The Presentation Materials are for information purposes only and do not constitute or form part of any offer for sale or solicitation of any offer to buy or subscribe for any securities nor shall they nor any part of them form the basis of or be relied on in connection with, or act as any inducement to enter into, any contract, transaction or commitment whatsoever. The Presentation Materials contain only a synopsis of more detailed information published in relation to the matters described therein and accordingly no reliance may be placed for any purpose whatsoever on the sufficiency of such information or on the completeness, accuracy or fairness of such information and to do so could potentially expose you to a significant risk of losing all of the property invested by you or the incurring by you of additional liability.

No undertaking, representation, warranty or other assurance, express or implied, is made or given by or on behalf of the Company, the Company's nominated adviser and UK broker, Cenkos Securities Plc ("Company Adviser"), or any of their respective affiliates or any of such persons' directors, officers, partners, employees, agents or advisers or any other person as to the adequacy, accuracy, completeness or reasonableness of the information or opinions contained in the Presentation Materials and no responsibility or liability is accepted by any of them for any such information or opinions or for any errors, omissions, mis-statements, negligence or otherwise for any other communication written or otherwise.

No Company Adviser has approved (for the purposes of section 21 of the Financial Services and Markets Act 2000 ("FSMA")) the contents of, or any part of, the Presentation Materials. The Presentation Materials are only being issued to and directed at and may only be received by persons who: (a) in the UK: (i) have professional experience in matters relating to investments and who fall within the exemptions contained in Articles 19 or 49 of the Financial Services and Markets Act 2000 (Financial Promotion) Order 2005, as amended (investment professionals and high net worth companies, unincorporated associations etc.) and (ii) are a "qualified investor" within the meaning of Section 86(7) of the FSMA; or (b) are otherwise permitted by the laws of the jurisdiction in which they are resident to receive them. It is a condition of your receiving the Presentation Materials that you fall within one of the categories of persons described above; (b) you have read, agree to and will comply with the terms of this disclaimer; and (c) you will conduct your own analyses or other verification of the information set out in the Presentation Materials and will bear the responsibility for all or any costs incurred in doing so. Persons who do not fall within one of the categories of persons described above should not rely on the Presentation Materials nor take any action upon them, but should return them immediately to the Company.

It is a condition of your receiving these Presentation Materials that you fall within, and you warrant and undertake to the Company that you are either an "accredited investor" (as defined in Rule 501 of the U.S. Securities Act of 1933, as amended (the "Securities Act")) or you are located outside of the United States (as defined in Regulation S promulgated under the Securities Act).

The distribution of the Presentation Materials in certain jurisdictions may be restricted by law and therefore persons into whose possession the Presentation Materials come should inform themselves about and observe such restrictions. In particular, neither the Presentation Materials nor any copy of them nor any information contained in them may be taken or transmitted into the United States, Canada, Japan, or the Republic of South Africa, except in compliance with applicable securities laws.

### **Disclaimer (cont.)**



Any failure to comply with this restriction may constitute a violation of securities laws. No action has been or will be taken by the Company that would permit a public offer of its securities in any jurisdiction in which action for that purpose is required. No offers of securities or distribution of the Presentation Materials may be made in or from any jurisdiction except in circumstances which will not impose any obligation on the Company or any of its advisers to take action.

The Presentation Materials include certain forward-looking statements, estimates and forecasts with respect to the anticipated future performance of the Company which reflect the Company's expectations regarding future plans and intentions, growth, results of operations, performance and business prospects and opportunities. Such forward-looking statements, estimates and forecasts reflect various assumptions made by the management of the Company and their current beliefs, which may or may not prove to be correct. A number of factors could cause actual results to differ materially from the potential results discussed in such forward-looking statements, estimates and forecasts including, changes in general economic and market conditions, changes in the regulatory environment, business and operational risk factors. Although such forward-looking statements, estimates and forecasts are based upon what the management of the Company believe to be reasonable assumptions, no guarantee can be given that actual results will be consistent with such forward-looking statements, estimates and forecasts. Prospective investors should not place undue reliance on such forward-looking statements, estimates and forecasts are made as of the date of these Presentation Materials and the Company does not assume any obligation to update or revise them to reflect new information, events or circumstances. Past performance is not a guide to future performance.

The Presentation Materials do not purport to contain all the information that a prospective investor may require. Prospective investors should conduct their own independent investigation and analysis of the Company and the information contained in these Presentation Materials and are advised to seek their own professional advice on the legal, financial and taxation consequences of making an investment in the Company. The contents of these Presentation Materials are not to be construed as legal, business, investment or tax advice.

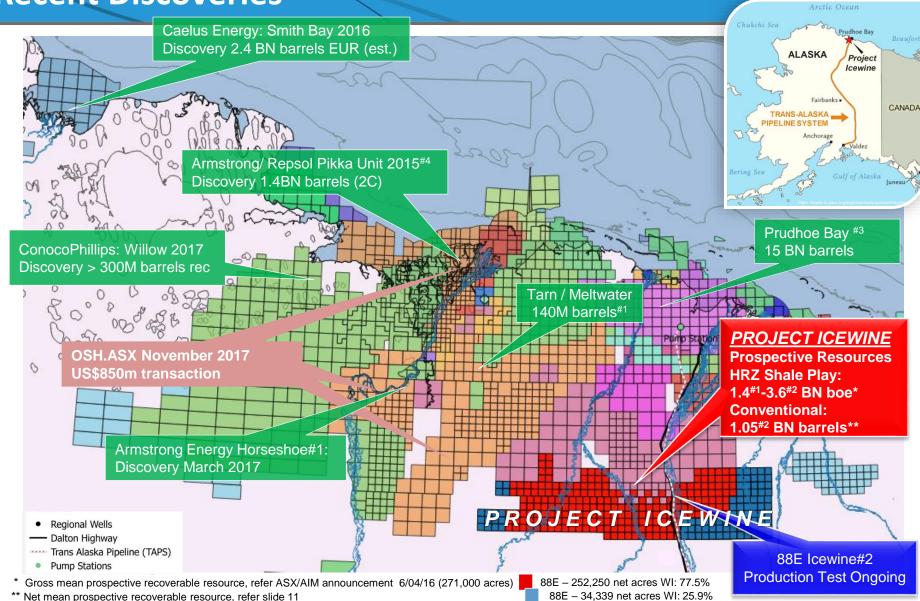
Cenkos Securities Plc which is authorised and regulated in the United Kingdom by the Financial Conduct Authority, is acting for the Company and no-one else in connection with the contents of this document and will not be responsible to anyone other than the Company for providing the protections afforded to the clients of Cenkos Securities Plc or for affording advice in relation the contents of this document or any matters referred to herein. Nothing in this paragraph shall serve to exclude or limit any responsibilities which Cenkos Securities Plc may have under FSMA or the regulatory regime established thereunder. Cenkos Securities Plc is not making any representation or warranty, express or implied, as to the contents of this document.

Pursuant to the requirements of the ASX Listing Rules Chapter 5 and the AIM Rules for Companies, the technical information and resource reporting contained in this presentation are based on, and fairly represent, information and supporting documentation prepared by, or under the supervision of, Mr Brent Villemarette, who is a Non Executive Director of the Company. It has been produced for the Company, and at its request, for adoption by the Directors. Mr Villemarette has more than 35 years experience in the petroleum industry and is a qualified Reservoir Engineer who has sufficient experience that is relevant to the style and nature of the oil prospects under consideration and to the activities discussed in this document. He has consented to the inclusion of the petroleum prospective resource estimates prepared by DeGolyer & MacNaughton (as of 31 December 2015) and supporting information being included in this announcement in the form and context in which they are presented. His academic qualifications and industry memberships appear on the Company's website and both comply with the criteria for "Competence" under clauses 18-21 of the Valmin Code 2005. Terminology and standards adopted by the Society of Petroleum Engineers "Petroleum Resources Management System" have been applied in producing this document.

The presentation materials are being furnished solely in reliance on applicable exemptions from the registration requirements under the Securities Act. The securities of the Company have not and will not be registered under the Securities Act or any State Securities laws, and may not be offered or sold within the United States unless an exemption from the registration requirements of the Securities Act is available. Accordingly, any offer or sale of securities in the Company will only be offered or sold (i) within the United States only to institutional accredited investors (as defined in Rule 501 (a)(1),(2),(3) or (7) of the Securities Act) in private placement transactions not involving a public offering and (ii) outside the United States in offshore transactions in accordance with Regulation S. Securities of the Company may not be resold unless the offer and sale is registered under the Securities Act or an exemption from registration is available. Neither the U.S. Securities and Exchange Commission nor any State or Foreign Regulatory Authority has approved the securities of the Company to be offered or the terms of such offering or passed upon the accuracy or adequacy of the Presentation Materials. Any representation to the contrary is a criminal offence.

# North Slope Oil & Gas Activity 2017 Recent Discoveries





<sup>#1</sup> Independent Est., #2 Internal Est., #3 Source USGS 2005, #4 Armstrong 2016

## **Corporate Snapshot**



88 Energy Limited (ASX, AIM: 88E)	Current
Shares on Issue	4,649m
Options on Issue	769m
Market Capitalisation (A\$0.022)	A\$102m
Cash (30 Sep 17 unaudited)	A\$19.2m / US\$14.6m
Board and Top 20	58%
Project Icewine Operator, Working Interest	~74%

David Wall	Managing Director
Michael Evans	Non-Exec Chairman
Brent Villemarette	Non-Executive Director
Dr Stephen Staley	Non-Executive Director
Ashley Gilbert	Chief Financial Officer
Erik Opstad	General Manager, Alaska Operations
Elizabeth Pattillo	General Manager, Exploration

88E Board and Management

## Burgundy Xploration JV Partner



Paul M. Basinski, Founder & CEO

Michael R. McFarlane, President

Closely Held Texas LLC

Special Purpose Vehicle for Project Icewine

Project Icewine Working Interest ~26%



## **Activity Planned**

- Icewine#2

   ongoing
   production test –

   April / May 2018
- 3D seismic to delineate conventional drilling candidates ~February 2018

## Project Icewine HIGHLIGHTS



### Large, Strategic Acreage Position – Vast Majority of HRZ Play now Captured

- Joint Venture controls 460,000 gross acres (~286,000 net to 88E, Operator\*)
- Strategically located on infrastructure all year access road / pipeline

### Primary Target: HRZ Liquids Rich Resource Play – 1.0-2.6 billion barrels liquids\*\*

- De-risked by core/log analysis from Icewine#1 (2015/2016) Phase I
- Stimulated successfully in Icewine#2 with flow-back clean up ongoing Phase II
- Preliminary results encouraging, but not definitive, with only 20% frac fluid recovered
- Limited connection to reservoir interpreted due to low recovery of frac fluid prior to Arctic Winter shut-in on 18<sup>th</sup> September
- Finalise flow testing with optimised completion and artificial lift April/May 2018

### **Large Conventional Leads Identified – 1.05 billion barrels**#

- Initially based on 750 line kilometers of modern 2D seismic (2015/2016)
- 1,600 line kilometers vintage 2D seismic reprocessed and interpretation complete
- Additional leads now mapped, coincident with reservoir and oil shows in regional wells
- Planned acquisition of 3D seismic ~February 2018 to delineate optimal drilling locations
  - Seismic contract recently awarded on competitive terms

<sup>\*</sup> Operator on 252,000 net acres, JV Partner operates the remaining 34,000 net acres

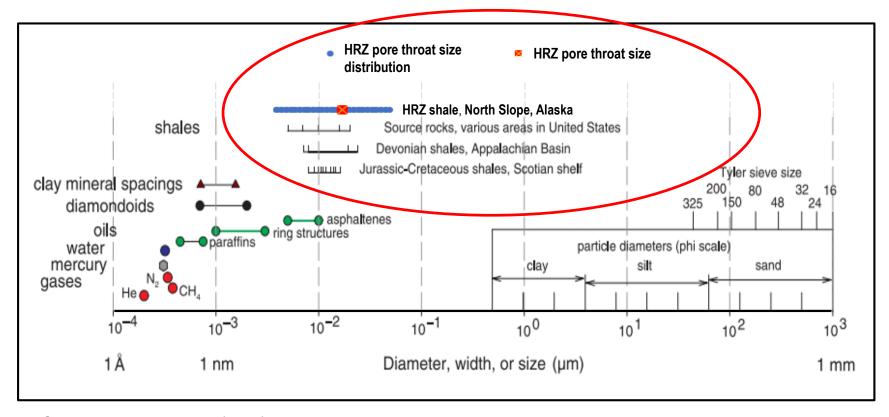
<sup>\*\*</sup> Gross Mean Prospective Recoverable Resource based on 271,000 gross acres, \*Net Mean Prospective Recoverable Resource

## HRZ Unconventional: Phase II Icewine#2 Vertical Well, Stimulate & Flow Test ENERGY

- Drilling / stimulation completed on time and to date remains under budget
  - Two stage, multi-perforation cluster stimulation over 128' interval
- Slickwater treatment comprising 27,837 barrels of fluid and 1 million pounds of proppant
- Initial clean up from 19<sup>th</sup> June 10<sup>th</sup> July and then shut in to allow for pressure build-up and 'soak'
- Clean up recommenced on 31<sup>st</sup> August with first hydrocarbon to surface recorded 9<sup>th</sup> September
- Shut-in for Arctic Winter 18<sup>th</sup> September after average flow of 1.85mcf/d gas, with increasing ratio of heavy components, during test period
  - 20% of frac fluid recovered vs projected minimum target of 30% targeted to achieve connectivity to reservoir
  - Results not considered representative of potential flow rate or compositional profile of hydrocarbons in the reservoir
- Forward plan to optimise and re-initiate flow testing using artificial lift in April/May 2018 - estimated cost US\$2m (US\$1.5m net)

# Project Icewine: HRZ Unconventional Recent Analysis



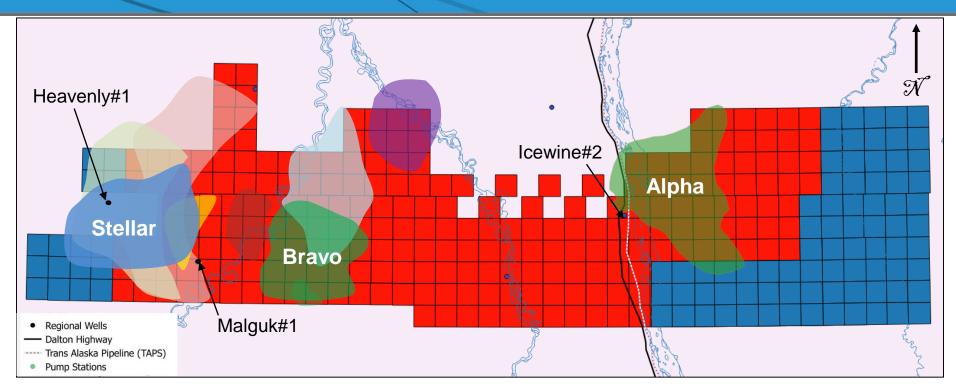


Source: Philip H. Nelson (2009); Pore-throat sizes in sandstones, tight sandstones, and shales

- Pore throat size: HRZ range compares favourably to other shale formations and is one to two orders of magnitude larger than paraffin molecules
  - No impediment for hydrocarbon flow based on analysis, as expected
- **Fracture half length**: derived from two pressure build up events no significant reduction observed over time with both calculations at 500' ± 10%

# Project Icewine Conventional Prospectivity Portfolio



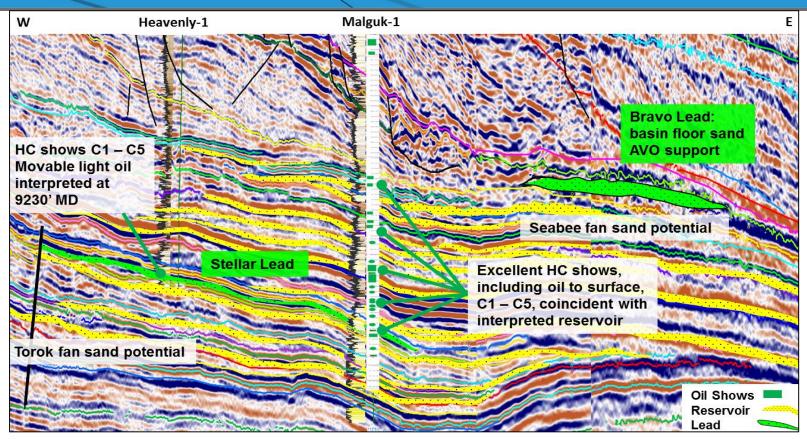


- Conventional Prospective Resource Potential (mean unrisked) :
  - 1.96 BN barrels gross; 1.05 BN net to 88E\*
- Multiple stacked leads predominantly stratigraphic, slope apron, turbidites & basin floor fan systems
- 1,000 line miles vintage 2D reprocessed / interpreted: new potential identified in Torok Stellar
- Plan to acquire ~200 sq miles 3D seismic to firm up drilling candidates (net cost ~US\$6-8m)
- Exceptional exploration drilling success over last 4 years using 3D seismic on the North Slope
- US\$850m transaction on recent conventional discoveries highlights increased regional interest

<sup>\*</sup> Refer slide 11 for full resource table and disclaimer

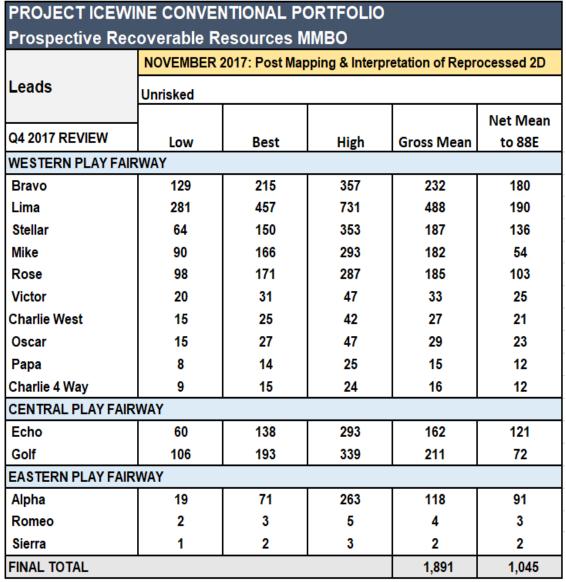
## Project Icewine: New 2D Seismic Reprocessing Highlights Deeper Potential





- Additional play potential identified on reprocessed 2D seismic and regional well petrophysics
  - Stacked Torok and Seabee Fm basin floor fan sands associated with lowstand events
  - Analogous play type to Meltwater/Tarn Field depositional system
  - Moveable hydrocarbons interpreted in both Malguk-1 and Heavenly-1
  - Good porosity interval intersected within the Torok Fm sands at Malguk averaging 17%
  - Multiple objectives could be tested by an exploratory well in the Western Play Fairway eg. Bravo

## Project Icewine: Conventional Portfolio Prospective Unrisked Recoverable Resources ENERGY



- Bravo & Alpha Leads prominent on modern 2D seismic
- Additional potential identified on legacy 2D – recently reprocessed and interpreted
- Stacked leads offer opportunity to test multiple objectives with one well
- 3D seismic acquisition scheduled to commence in February 2018

Prospective Resources classified in accordance with SPE-PRMS as at 24<sup>th</sup> November 2017 using probabilistic and deterministic methods on an unrisked basis. Leads identified from interpretation of modern 2D seismic acquired in 2015/2016 and legacy 2D seismic of varying vintages post 1980 across Project Icewine, which comprises 460,000\*\* gross acres on the Central North Slope of Alaska. 88 Energy is Operator of record at Project Icewine (through its wholly owned subsidiary Accumulate Energy Alaska, Inc) with a ~75% working interest over the conventional play fairway where the leads have been mapped.

Cautionary Statement: The estimated quantities of petroleum that may be potentially recovered by the application of a future development project relate to undiscovered accumulations. These estimates have both an associated risk of discovery and a risk of development. Further exploration, appraisal and evaluation are required to determine the existence of a significant quantity of potentially movable hydrocarbons.

<sup>\*\* 286,000</sup> acres net to 88 Energy working interest

# Project Icewine Summary



### **Unconventional - HRZ**

- Flow-back clean up phase ongoing with only ~20% of frac fluid recovered vs target of >30% - recommence April/May 2018 with artificial lift
- Results to date encouraging and consistent with early stage results from other successful plays
- Volumetric and commercial impact assessment underway, incorporating increased lease position

### Conventional

- Final interpretation of 2D seismic highly encouraging additional potential identified, coincident with oil shows / moveable oil in regional wells
- Acquire ~200 mi<sup>2</sup> of 3D seismic to mitigate exploration risk ~Feb 2018
- Firm up 1H 2019 drilling candidate(s) and launch farm-out process

### **Strong Financial Position**

- US\$14.6m in cash compared to planned work program of US\$8-US\$10m
- US\$22m in cash receivable from State of Alaska vs debt of US\$16.5m

## **Board and Key Management**



### Mr David Wall - Managing Director

4 years experience in strategy and planning at Woodside Petroleum. 6 years experience in financial services industry as small cap oil and gas equities analyst, specialising in exploration companies.

B. Comm in Management and Finance from University of Western Australia.

#### Mr Michael Evans - Non-Executive Chairman

Extensive executive and Board level experience with publicly listed companies in the natural resources sector spanning over 30 years.

Founding Executive Chairman of ASX oil and gas explorer FAR Limited and was responsible for FAR's entire West African portfolio where significant oil discoveries were made in 2014.

B Bus Curtin University, Chartered Accountant, Chartered Secretary, Governance Institute Australia

### Erik Opstad – General Manager Alaska Operations

37 years of energy project management and technical experience including with BP in Alaska, conducting both offshore and onshore operations. Mr. Opstad joined the 88 Energy team from Savant Alaska where as a principal in the company he served as Drilling & Wells Manager and General Manager driving geoscience and engineering redevelopment activities at the Badami oilfield on the North Slope of Alaska. *Erik holds a BSc and MSc in Geology from the University of Iowa*.

### **Dr Stephen Staley - Non-Executive Director**

34 years of energy management and technical experience including with Conoco and BP. Dr Staley was founding Managing Director of upstream AIM start-ups Fastnet Oil & Gas plc and Independent Resources plc and a Non-executive Director of Cove Energy plc. BSc (Hons.) in Geophysics from Edinburgh University, PhD in Petroleum Geology from Sheffield University and MBA from Warwick University.

#### Mr Brent Villemarette - Non-Executive Director

Over 35 years experience in the global oil and gas industry, primarily with Apache Corporation in the US and in Australia. Also served as Chief Operating Officer for Transerv Energy, an ASX listed oil and gas company. BSc in Petroleum Engineering from Louisiana State University. Reservoir Engineer.

### **Ms Elizabeth Pattillo – General Manager Exploration**

Over 20 years experience in the upstream petroleum industry both with major international oil and gas companies, (BHP Petroleum Pty Ltd, Shell UK Exploration & Production), and junior explorers. BSc (Hons) in Geology, Monash University Australia; Post Graduate Diploma in Education University of Western Australia

### Mr Ashley Gilbert - Chief Financial Officer

Over 20 years experience in commerce and public practice. Prior roles include CFO of Neptune Marine Services and Nido Petroleum, as well as positions within Woodside Petroleum and GlaxoSmithKline plc. in London. *B.Comm Curtin University, Chartered Accountant, Governance Institute Australia, Institute of Company Directors GAICD* 

13

### Contacts



### **Managing Director:**

David Wall dwall@88energy.com

### **Registered Office:**

Level 2, 5 Ord St, West Perth WA 6005

### **Postal Address:**

PO Box 1674, West Perth WA 6872

Telephone: +61 8 9485 0990 Facsimile: +61 8 9321 8990

Web: www.88energy.com

### **Share Registry:**

ASX: Computershare Investor Services Pty Ltd ASX: 88E

**AIM: Computershare** Investor Services Pty Ltd

AIM: 88E

### **Brokers:**

#### **Australia**

Hartleys Ltd

As Corporate Advisor: Mr Dale Bryan + 61 8 9268 2829

### **United Kingdom**

Cenkos Securities Plc As Nominated Adviser and Broker: Mr Neil McDonald +44 (0)131 220 9771 / +44 (0)207 397 1953 Mr Derrick Lee +44 (0)131 220 9100 / +44 (0)207 397 8900

#### **Investor Relations**

Finlay Thomson +44 (0) 7976 248471