PROSPEX 2012

Prospects 2 Go Mullen prospect, LO 11/7 & Kiernan prospect, LO 11/8

Hugh Mackay Europa Oil & Gas

www.europaoil.com



12th & 13th December 2012

Europa Oil & Gas plc is an AIM listed oil and gas exploration and production company with a significant portfolio of multi-stage hydrocarbon assets focussed on the UK, France and the Irish Atlantic Margin

Board of Directors

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	Hugh Mackay <i>CEO</i>	Hugh Mackay, a geologist, joined Europa in 2011. He has a wealth of experience in the oil and gas sector, including eight years at BP in a variety of roles in the UK, the Oman and Egypt, then at Enterprise Oil in leadership roles, culminating as head of the SE Asia division. Hugh sold the Peak Group to AGR ASA for \$50 million and founded Avannaa Resources, a leading mineral exploration company in Greenland. Hugh has a BSc in Geology from the University of Edinburgh and a Sloan MSc in Management from London Business School.
3	Phil Greenhalgh Financial Director	Phil Greenhalgh graduated from Imperial College with a BEng in chemical engineering and subsequently became a member of the Chartered Institute of Management Accountants. He began his financial career as Financial Controller with Kelco International, a subsidiary of Merck & Co. He moved to Monsanto plc where he was Finance Director for UK, Eire and Western Sector before becoming Finance Director with Pharmacia Ltd, a UK subsidiary company of Pharmacia formed from the merger of Monsanto and Pharmacia & Upjohn with sales of £276m. He moved to Whatman plc, a FTSE 250 company, where he had extensive dealings with the City of London, lead the financing of a €50m company acquisition and oversaw a substantial share price recovery and was a key member of the Whatman turnaround and acquisition strategy leading to £300 million sale to GE. He has been with Europa since 2008, raising £9.8 million.
	Bill Adamson OBE Non-Executive Chairman	Bill Adamson, a Chartered Engineer, has had a longstanding career in the energy industry with BG Group Plc managing all aspects of large gas businesses including CNG, power generation, joint venture management, corporate governance and risk and safety management. He was the Chairman and CEO of MetroGas S.A., Argentina's post-privatisation leading gas utility, Vice President and General Manager of BG Group's UK Downstream and most recently Managing Director BG India where he managed a portfolio of Upstream and Downstream businesses. He was also Chairman of Composite Energy which was sold to Dart for \$48 million. Bill holds an Honours Degree in Gas Engineering from the University of Salford.
	William Ahlefeldt <i>Non-Executive</i> <i>Director</i>	William Ahlefeldt helped take Europa Oil and Gas onto AIM and is its largest shareholder. He started his career at Maersk as a petroleum engineer followed, in 1987, by IPEC, a London based consultancy company, where he was responsible for field reserves estimations. In 1990, he became an independent consultant, undertaking field and portfolio evaluations for acquisitions and field development work on a range of projects in the North Sea, former Soviet Union and Middle East. William has been a non executive director of Europa since its float in 2004. He is also the founder of IFX Infoforex. William has continued to be active in petroleum engineering consulting doing portfolio evaluations and project management in the Middle East.
-	Roderick Corrie <i>Non-Executive Director</i>	Roderick Corrie is a graduate of Cambridge University, an Associate of the Chartered Institute of Banking and a Member of the Securities Institute. He is a strategic adviser and financier with a variety of companies. Holds or has held executive or non-executive roles in corporate finance, strategic advice, financial services, health, property, mineral exploration, investment and manufacturing companies. Previously held senior positions in the banking industry. Roderick Corrie is also the CFO of Lydian International, a \$300 million gold exploration company.

EUROPA Oil & Gas

Portfolio

"Our portfolio has three core areas : UK, France and Ireland"



Three Core Areas



Portfolio Perspective



Location

- South Porcupine Basin, virtually unexplored
- 100% equity in two licence options LO 11/7 and LO 11/8
- Large Lower Cretaceous clastic prospects with amplitude support
 - Proven play at Burren (North Porcupine), flowed oil
 - Potentially very large volumes
- Excellent fiscal terms (25-40% PRT)
- Moderate to deep water prospects (1000-2000m)
- Similar operating environment to West of Shetlands
- Seeking JV partner to take to a frontier exploration license, derisk and drill



Licence details

- Two separate License Options
- LO 11/7 & LO 11/8
- ~ 1000 km² each
- 100% Europa
- License Option
 - 1Nov 11 31 Oct 13
- Apply for Frontier Exploration Licence
 - Relinquish minimum 25%
 - 15 years duration
 - 1 phase of 3 years followed by 3 phases of 4 years each.
 - seismic and well commitments



Porcupine Basin Water Depth (m)

LO 11/7 Mullen Lower Cretaceous play 800m-1400m water depth, limit of fixed platform



Burren Lower Cretaceous oil discovery ~375 bopd

Dunquin Middle Cretaceous Carbonate prospect 8.4 TCF + 316 MMBO drill Q1 2013

Line of section

LO 11/8 Kiernan Lower Cretaceous play 1400-2000m water depth, most likely suited to FPS



South Porcupine Basin Cross Section



Cross-section courtesy of PhysicalGeo Limited

Line PSB97-08 LO 11/7 Mullen Plays



Polarity : black peak decrease in acoustic impedance Data shown courtesy of TGS and WesternGeco



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Line PSB97-50 LO 11/8 Kiernan Plays



Polarity : black peak decrease in acoustic impedance Data shown courtesy of TGS and WesternGeco



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Reservoir

- Lower Cretaceous sands of the Mullen (West) and Kiernan (East) prospects are deposited as deepwater turbidite channels
- Coincident with local uplift events on the basin margins
 - 1. Kiernan (East) is fed by a Valanginian channel, immediately above the Base Cretaceous Unconformity (145my, Chron M20)
 - 2. Mullen (West) is fed by an Aptian channel, immediately above the Mid Aptian Unconformity (118my, Chron M0)

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raceou	LOWER	Albian	BEN NAUTILUS BEN SHALE RM		East Orphan and Porcupine separation north of Charlie Gibbs Fracture Zone creates final uplift event	118	2 M0		-● 26/22-1A 549 210	35/19-1 35/8-2 26/21-1,2 26/27-1	Mid Aptian	Unconformity	/
CRE.	-	Aptian Barremian	AVALON EASTERN "A" mir	<u>/</u>	Bay of Biscay triple junction activity creates uplift	125	м10	35/30-1 	-●- 35/2-1 -●- 549	26/28-1 35/8-1 Cook reef	Base E	Barremian	
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	UPPER	Tithonian Kimmeridgian Oxfordian	FORTUNE BAY SHALE JEANNE D'ARC FM Egnt Mar RANKIN FORMATION	······································	Active rifting creates synrift marine sediments. Break up between Nova Scotia and Iberia	158	- 1	- → 26/28-1 35/8-2 - → 26/28-1	◆ 26/22-1A 35/2-1 34/19-1 34/15-1 26/27-1B 43/13-1 35/8-2	26/28-1 35/8-2 34/19-1 35/8-1	Mid Cim	merian Unc.	
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Base Cretaceous Depth map (m)



- Combined map of Late
 Cimmerian Unc. and PMVR structure.
- Arrows indicate possible
 Lower Cretaceous sand
 provenance directions
 - From Porcupine High in West
 - From Munster basin
 (ORS) in East



Mullen – Jurassic source maturity

Top Jurassic maturity 35 My



Top Jurassic maturity 0 My



Mullen – Cretaceous source maturity

Lower Cretaceous maturity 35 My



Lower Cretaceous maturity 0 My



Sea Bed - Base Tertiary isopach (m)



- Tertiary isopach illustrates variable thickness of overburden between the north and south
 - 2000m in South Porcupine
 vs up to 4000m in the North
 Porcupine
 - As a consequence source rocks will be less buried and may spend longer in potential maturation window depths in the south



Mullen Aptian Depth Map (m)





Geoseismic Sections: Mullen Dip Line

















Geoseismic Section



Analogues- African transform margin



Cretaceous turbidite sandstones in stratigraphic traps



Mullen Volumetrics and Resources



Prospect Reserve Size Cut-off for Porcupine Basin



Basin immaturity (and risks) suggests minimum drillable prospect size is around 200 mmbbl despite lenient fiscal regime



De-risking

- Objective mature prospect to drillable status
- Current work integrate 2D reprocessed data
- Further work:
 - Undertake more reprocessing to support geophysical studies
 - Rock physics and AVO studies
 - Build business case for 3D survey
 - Aim to de-risk prospect through conformance, flat events and AVO.
- Other sources
 - Technical success at Dunquin may help de-risk source rock elements
 - Drilling of Cretaceous stratigraphic traps elsewhere in the Atlantic region may contribute new insights



Farmout

- Europa has 100% equity in L0 11/7 and 11/8
- Objective is to accelerate exploration in both licences
- Seeking a joint venture partner to share seismic acquisition and (if justified) drilling
- Data room opens in January



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