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## Overview

- Highly experienced management and board extensive sector, regional and financial experience
- North Africa strategic focus initially Tunisia, capitalising on longstanding in-country expertise and networks
- Tunisian 'operator' status reflects extensive local experience, relationships and strong local team
- Acquired Circle Oil Tunisia Limited (COTL) in 2018 100% owner of 3,000 km<sup>2</sup> Mahdia offshore, Tunisia permit
- Mahdia is a 114 MMbbls<sup>(1)</sup> multi-prospect opportunity with 2018 CPR assessing less than 15% of permit area
- Multidisciplinary team focussed on technical and operational excellence allied with capital discipline and shareholder returns

KEY STATISTICS	
Mahdia: Best Estimate Prospective Resources	114 MMbbls <sup>(1)</sup>
Mahdia: P10 Upside Case	365 MMbbls <sup>(1)</sup>
Mahdia: NPV <sub>10</sub> of first target	\$462 million <sup>(1)</sup>

(1)RPS Energy CPR



## The team

### **BOARD OF DIRECTORS**

### THOMAS ANDERSON | Chairman & CEO

Over 30 years' experience in leisure, fund management, forestry, oil and gas. Chairman of Circle Oil from 2004 to 2013. Thomas is a principal investor in Dunraven. He is a business graduate of University College Dublin.

### JOHN MC KEON | Founder & Director

Over 30 years' natural resource investment experience. John is a founding shareholder of Circle Oil, Chairman of Ardilaun Energy, and a director of Silicon Kingdom. John was responsible for Dunraven's acquisition of Circle Oil Tunisia and the Mahdia offshore permit.

### **BRENDAN MCMORROW | CFO**

Over 30 years senior finance experience in publicly quoted natural resource companies listed in Dublin, London and Toronto. CFO of Circle Oil from 2005-2015. Fellow, Chartered Association of Certified Accountants.

### **CATHAL JONES | Director**

Experienced corporate financier. Over 15 years with PwC and then Deloitte. Former Director on the Deloitte Energy and Resources national industry leadership team. Cathal has spent the past 5 years as Finance Director with Ardilaun Energy, an Irish Oil and Gas exploration company. Fellow, Institute of Chartered Accountants.

### MARK HENDERSON | Director

Former oil and gas equity analyst with Deutsche Bank, Dresdner, Commerzbank, Credit Suisse. Former energy sector portfolio manager at Abu Dhabi Investment Authority. CFO of Sirius Petroleum

### **KEY PERSONNEL**

### JAMES POPE | Strategy and Business Development

30 years' oil and gas. Former Halliburton geologist / engineer; oil and gas equity and debt finance experience with ABN Amro, Barclays, Tokyo Mitsubishi, Credit Agricole, Matrix, First Rand Bank, GMP

### **ADRIAN BURROWS | Chief Geoscientist**

40 years' E&P. Managed acquisition, processing and interpretation teams; coordinated strategy and operations. Senior positions with Amoco, Occidental, ELF, RPS, PGS, Circle Oil

### **BRUCE AVERY | Drilling Manager**

30 years' global drilling / management. Senior positions with Shell, BP, Schlumberger, Baker Hughes, Wintershall. IWCF supervisor-level well control cert

### **ALI CHINE | Country Manager**

Petroleum geologist. Senior manager at ETAP for 34 years

### **ROWAN PEARSON | Corporate and Media Affairs**

10 years' Europe and Central Asia natural resources and emerging markets M&A experience across private and capital markets

### **CONTRACTORS / TECHNICAL PARTNERS**

### **SCHLUMBERGER**

Geotechnical, geophysical advice and gap analysis.

### **RPS ENERGY**

Reservoir engineering (CPR) consultant

#### STELLAR ENERGY

Farm-Out Advisors and data room hosts



## Key drivers and capabilities

A strong management team experienced in delivering material value

Key E&P success criteria		
Focus on areas where management have deep technical and operational knowledge	<b>√</b>	Extensive experience of North Africa, including Tunisia (Mahdia), with major oil groups and numerous E&P companies
Capital discipline	<b>/</b>	100+ years' equity and debt capital markets experience
Proven technical and operational capabilities	<b>√</b>	Roles including with BP, Conoco, Chevron, Texaco, Schlumberger, Halliburton, ETAP, PGS, Circle Oil, Baker Hughes
Technical and commercial de-risking of key assets	<b>√</b>	Mahdia farm-out process led by specialist advisors, Stellar Energy, following extensive prospect analysis with Schlumberger, Senergy, RPS
In-country presence, capabilities and networks	<b>√</b>	Longstanding Tunis team with excellent relationships with regulators, government, ETAP, local companies
Committed board with strong alignment with shareholders	<b>√</b>	Significant 2018-2019 investment by key shareholder, former Chairman / co-founder of Circle Oil Plc. Board considers Mahdia to be a highly-material, company-making prospect
Near-term value creation potential	<b>✓</b>	Highly prospective Mahdia opportunity



## **Tunisia**

### Country overview

- Strategic location in southern central Mediterranean
- 160,000 km² (¾ size of UK)
- Population 11 million
- Recognised as one of only two Middle East/North Africa democratic countries in EIU's '2018 Democracy Index'
- "Privileged Partnership" with EU and described as "a strong partner of the United States" by US State Department
- Substantial energy shortfall keen to attract international investors and partners





## **Tunisia**

## Hydrocarbon industry open for business

## Fiscal/regulatory environment

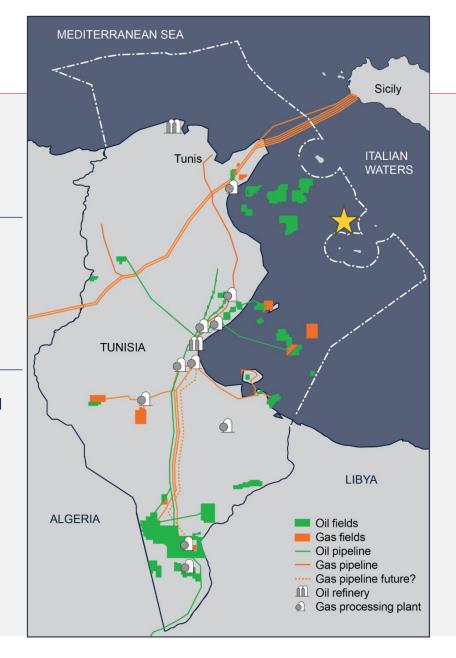
- Progressive, democratic regime
- Stable government and operating environment
- No local taxation
- Conventional royalty structure

# Existing hydrocarbon industry

- Production since 1966
- Good infrastructure
- Long-standing foreign investors include Shell (BG Group), ENI, OMV
- ETAP promotes hydrocarbon sector and manages interests on behalf of state

### Productionconsumption imbalance

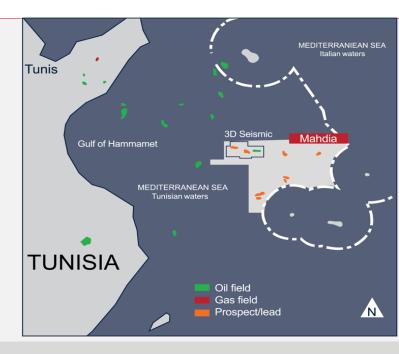
- Crude oil production of 36,000 bopd (2018) approximately one-third of the volume of refined oil consumed in 2016
- Natural gas production of 204 MMcfd (2018) less than half the volume of gas consumed in 2017





## Mahdia permit

- 3,024 km<sup>2</sup> block in Mediterranean
  - 114 km offshore Tunisia, 160 km to nearest major port
  - Eastern margin, Gulf of Hammamet basin
  - Mid-size discoveries in basin, nearby producing fields
- COTL is Operator (100% interest)
  - Experienced consultants appointment to explore farm-out options
  - Dunraven management regards Mahdia as most promising unexploited block offshore Tunisia
- Four prospects identified in NW of block (El Mediouni "EMD" area) covered by 360km<sup>2</sup> 3D seismic survey (2012)
- Other prospective leads identified in East and South of block where only sparse 2D seismic exists
  - Will likely require 3D seismic to quantify potential



### CPR highlights (RPS Energy, 2018)

	P				
Prospect		GPoS %			
	Low	Best	High	Mean	70
EMD-East	19	63	171		72
EMD-Central	5	14	36	19	52
EMD-Far East	1	5	28	12	26
EMD-West	8	32	130	57	15



## Mahdia history

### EMD-East: evidence of significant prospect

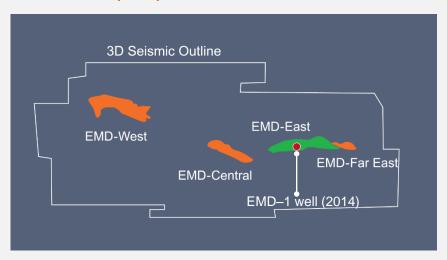
### **Background**

- 2012 3D survey confirmed 10+ km<sup>2</sup> EMD-East prospect
- COTL targeted EMD-East in 2014 with EMD-1 well, which was ultimately suspended due to budget constraints as a consequence of several factors including:
  - Suboptimal rig choice
  - Poor well management
  - Well control issues

### **Future potential**

- 121 m of oil shows were recorded in the Ketatna formation, a mixed carbonate/dolomite reservoir section that is "very likely to be hydrocarbon bearing" (RPS Energy CPR, 2018)
- EMD-2's secondary targets have internally estimated potential most likely oil initially in place of 63MM BBIs (Abiod) and 29MM BBIs (Serdj)
- Six further leads currently exist outside the 3D seismic survey area that may be progressed to drillable prospects via the acquisition of additional 3D seismic data

### Four EMD prospects in 3D seismic area



### RPS Energy estimates:

- EMD-East has potential mean recoverable resources of 78 MMbls
- P10 upside case of 174.5 MMbls
- Three additional prospects are defined by 3D seismic data elsewhere in the El Mediouni area as having a total of 88 MMbbls mean recoverable resources



## Mahdia

### Transformational drilling programme

### Key objectives

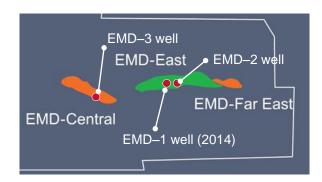
- Drill EMD-2 well targeting EMD-East with Ketatna formation as primary objective
- Log the target section to define reservoir parameters
- Confirm oil-down-to depth
- Conduct flow test(s)
- Drill to deeper reservoirs at Abiod and Serdj levels

### EMD-2

- Location close to leading-edge fault to encounter Ketatna at similar depth to EMD-1
- Seismic at location on structure displays similar character to EMD-1 anticipated to provide good understanding of formation thicknesses / lithologies in anticipated oil bearing zone
- Logs should fully evaluate reservoir and include borehole images for fracture assessment
- Subject to results to base of Ketatna reservoir, well may be deepened to evaluate Abiod and Serdj levels
- Well should yield opportunity to test encountered reservoir(s) and establish fluid properties and flow rates for future planning

### EMD-3

- Contingent well under discussion with ETAP / DGH
- Location 5 km step-out from EMD-1 well on EMD-Central
- Evaluate Ketatna and deeper structures and test oil bearing horizons
- If hydrocarbons in well appear to be in pressure communication with EMD-2 this could give a significant uplift to the reserves and economics currently carried



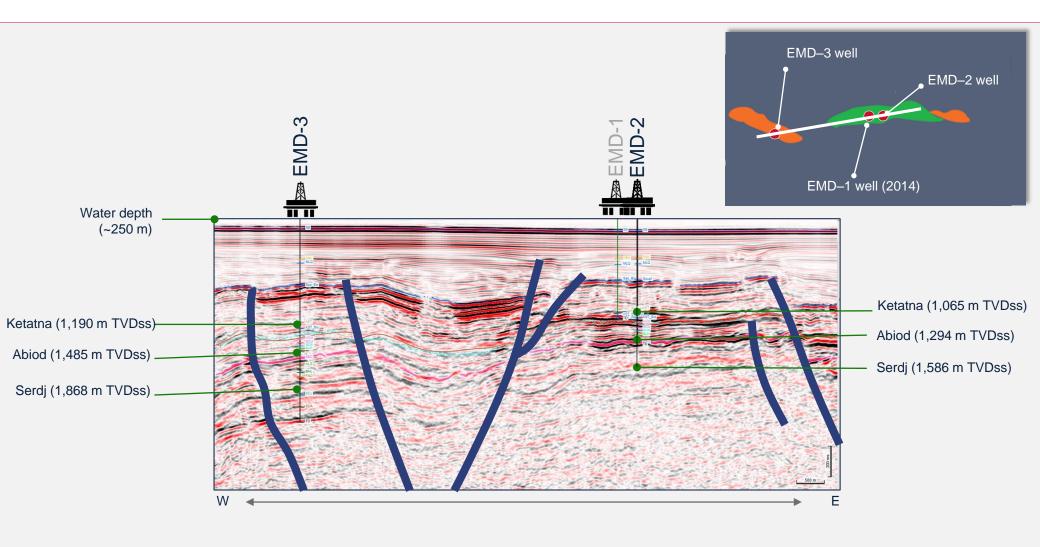
### Development scenario

Work for COTL by Adil (a Schlumberger company) proposed development of EMD-2 and EMD-3 wells tied back to FPSO



## Mahdia

## Seismic cross-section and projected reservoir depths





## Summary

- North Africa / Tunisia-focus, excellent geographic location, proximal to infrastructure and markets with 'running room' on block and regionally
- Highly experienced, multidisciplinary management team with extensive in-country relationships and knowledge of core asset allied with value-additive G&G, drilling, commercial and financial capabilities.
- Compelling 'informed exploration' opportunity on EMD East prospect, the current principal target on highpotential, under-explored 3k km<sup>2</sup> Mahdia block
- Extensive technical activity undertaken in-house and with technical partners over past ~18 months to progress EMD-2 to drill-ready status by mid-2020
- Current intention to farm-down interest in Mahdia to credible joint-venturer(s) to reduce costs, mitigate potential risks
- Additional prospectivity within Mahdia permit to be evaluated post-drilling of EMD-2 through new 3D seismic survey and potential further drilling





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