UNITED OIL & GAS Plc WALTON MORANT LICENCE, OFFSHORE JAMAICA EVIDENCE FOR AN ACTIVE PETROLEUM SYSTEM



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WALTON MORANT LICENCE, JAMAICA - INTRODUCTION

World-Class Exploration Licence

- Massive 22,400km² exploration block
- Globally significant prospective resource potential
 - **7-billion-barrel** mean/mid-case prospective resources identified to date¹
 - Huge upside potential and running room
- Walton Morant has **highly favourable fiscal terms** designed to attract investment into Jamaica
- Highly **supportive government** policy and actions supporting the progression of the Walton Morant licence



Licence recently extended to January 2028

Cost-effective technical work programme includes the acquisition of piston cores and seismic reprocessing

Designed to further de-risk the identified prospectivity ahead of a drill-or-drop decision

¹7 Billion bbls is UOG's arithmetic sum of the Unrisked Mean/Mid-Case Prospective Resources for each prospect/lead identified within the Walton Morant Licence boundary by UOG and previous operators

7 Billion Barrels of Mean/Mid-Case Prospective Resource Potential Identified

JAMAICA IS READY FOR EXPLORATION...

Compelling evidence for all the elements of an active petroleum system in Jamaica

• Source

• Evidence for the presence of regionally significant Upper Cretaceous source rock development in Jamaica

Generation/Migration

- Numerous oil and gas seeps identified and sampled both onshore and offshore
- Seismic evidence for hydrocarbon migration
- All wells drilled to date have hydrocarbon shows

Reservoir & Seal

- Multiple potential reservoirs and seals identified, with geophysical support for their presence
- Trap
 - Seismic evidence for the presence of large-scale traps with potential to hold significant hydrocarbon resources across the licence area



Multi-basin, multi-play potential

>7 Billion bbls¹ Unrisked Mean/Mid-Case Prospective Resources across the licence

EVIDENCE BASED ON A HIGH QUALITY DATABASE

- Ca. **US \$40m invested** in the Walton Morant Licence area since 2014, including acquisition of 2D and 3D seismic data
- Full 2D dataset coverage across licence area, including **3,650km** modern (2016/2017) 2D PreSTM data
- 2,250km² 3D PreSTM & PreSDM (2018)
- 11 wells drilled to date all with evidence of hydrocarbons
- Substantial onshore field dataset





Age

Miocene

Oligocene

Paleocene Maastrichtian Campanian





Live oil Oil stain or dead Oil Trace gas Fluorescence and/or Cut FIS gas - condensate Indeterminate "shows"

Potential source rock



PETROLEUM SYSTEM ELEMENTS PROVEN ONSHORE JAMAICA Source Reservoir





Cenomanian-Turonian

OI (mg/gTOC









Cretaceous rudist limestones in outcrop





Eocene-Oligocene porous shoal carbonate facies





Cretaceous

marine clastics

Photos and datapoints gathered during fieldwork and corestore visits to Jamaica by Tullow and UOG representatives from 2014 to 2023

Evidence for source, reservoir and seal found in outcrop and well cores throughout Jamaica

Seal

SOURCE - REGIONAL EVIDENCE FOR A CRETACEOUS SOURCE ROCK FAIRWAY

- Work by UOG on regional source rock occurrences indicates that Jamaica is part of a regionally significant "Upper Cretaceous Caribbean source rock fairway"
- Nuevo Fm, and is a similar age to proven source rocks in the Caribbean



Source: Erlich 2003





Multiple lines of evidence for an active hydrocarbon system in Jamaica

SEISMIC EVIDENCE FOR MIGRATION

- Pockmarks indicating fluid escape at seabed associated with underlying Mesozoic highs & faults
- Indicates Mesozoic highs are focus for fluid migration
- Note seismic blanking and shallow amplitude anomalies evident above Mesozoic high to SW of Colibri (indicating fluid migration to surface) not seen above Colibri (indicating intact seal across Colibri structure)



Seismic and seabed indicators of fluid migration present - but not above prospectivity



RESERVOIRS & SEALS



Upper Eocene-Oligocene: Post-Rift Carbonates

- Found in outcrop and Pedro Bank wells
- Seismic mapping indicates presence of coarse-grained, porous platform margin material to be shed into adjacent basin

Palaeocene-Eocene: Syn- to Post-Rift Clastics (Morant Basin)

- Submarine fans in tilted fault blocks
- Onshore outcrop equivalents exhibit excellent reservoir quality



Upper Cretaceous: Syn-Rift Carbonates (Walton Basin)

- Rudist-bearing limestones constitute important reservoir facies globally
- Geophysical anomalies at Colibri Prospect interpreted to be caused by presence of porosity

Seals

- Thick Cretaceous and Lower Eocene deep marine shales
- Middle Eocene transgressive shales & argillaceous limestones
- Seismic and geophysical evidence for seal presence











TRAP - WALTON BASIN 3D SEISMIC-DEFINED PROSPECTIVITY



Basement – Granodiorite where penetrated



Colibr

JAMAICA'S EXPLORATION HISTORY...AND WHAT'S DIFFERENT NOW

All the elements for exploration success are present, so why has no oil been found yet?

- Limited wells, drilled on limited data
- Wells drilled on the wrong targets
 - Onshore surface structural expressions, likely breached during island uplift
 - Offshore, drilling targeted carbonate banks
- Poor quality legacy seismic data
- Despite this hydrocarbons found in every well





• What has changed?	Exploration concepts - targeting intact prospectivity in margins or breached structures onshore Better understanding of the regional source rock distr Data quality - 3D acquired in 2018 (processed in 20 image quality, clarity and geophysical attributes
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the offshore basins, not the basin

ibution and geological history in general 019) a game-changer in terms of

VINTAGE 2D TO MODERN 3D (PSTM) - A STEP CHANGE IN DATA QUALITY AND IMAGING

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VINTAGE 2D TO MODERN 3D (PSTM) - A STEP CHANGE IN DATA QUALITY AND IMAGING

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WALTON MORANT LICENCE - COMBINED PROSPECTIVE POTENTIAL OF >7BBO¹

Name	Assignation	Location	Seismic Data Type	Mean/Mid Volume (mmbbls / mmboe)	
Lead 11F	Lead	Walton Basin	2D	1126	
Zumbador	Lead	Morant Basin	2D	925	-
Thunderball	Lead	Morant Basin	2D	603	
Colibri	Prospect	Walton Basin	3D	406	G
Lead D	Lead	Walton Basin	2D	382	C
Moonraker	Lead	Morant Basin	2D	323	
Cascade Central	Lead	Pedro Bank	2D	275	
Streamertail	Prospect	Walton Basin	3D	221	
Oriole	Prospect	Walton Basin	3D	220	
Boag	Lead	Walton Bank	2D	219	
Lead 6I	Lead	Walton Bank	2D	205	
Goldeneye	Lead	Morant Basin	2D	174	
Moneypenny	Lead	Morant Basin	2D	173	
Blofeld	Lead	Morant Basin	2D	171	
Earspot	Lead	Walton Bank	2D	145	
Squire	Lead	Walton Basin	2D	139	
Lead 12M	Lead	Walton Basin	2D	133	
Lead 6H	Lead	Walton Bank	2D	120	
Lead 12V	Lead	Walton Basin	2D	111	
Cascade South	Lead	Pedro Bank	2D	101	
Lead6Q	Lead	Walton Bank	2D	101	
Cascade East	Lead	Pedro Bank	2D	86	
Rumpspot	Lead	Walton Bank	2D	85	/
Lead 7P	Lead	Walton Bank	2D	76	(
Lead 7N	Lead	Walton Bank	2D	70	-
Lead 10K	Lead	Walton Basin	2D	70	-
Lead 12L	Lead	Walton Basin	2D	70	
Lead 7T	Lead	Walton Bank	2D	60	
Bluefields	Lead	Walton Bank	2D	57	
Tody	Prospect	Walton Bank	3D	53	
Mango	Lead	Walton Basin	2D	53	
Guani	Lead	Walton Bank	2D	53	
Lead 12U	Lead	Walton Basin	2D	41	
Jaws	Lead	Morant Basin	2D	39	
Euphonia	Prospect	Walton Bank	3D	38	
Lead 6G	Lead	Walton Bank	2D	38	
Booby	Lead	Walton Basin	3D	34	
Lead 10B	Lead	Walton Basin	2D	32	
Lead 7R	Lead	Walton Bank	2D	28	
Lead 7S	Lead	Walton Bank	2D	28	

and leads included in Prospective Resources Report Total: 2.4 BBO Mean Prospective Recoverable

Additional leads identified on 2016 Morant Basin 2D, 2006 & 2009 spec 2D data and legacy 2D data Total: 4.8 BBO Mid-case Prospective Recoverable



- multiclient 2D

Attractive Near-, Medium- and Long-Term exploration targets with >7 billion barrels¹ potential across the Walton Morant Licence

¹7 Billion bbls is UOG's arithmetic sum of the Unrisked Mean/Mid-Case Prospective Resources for each prospect/lead identified within the Walton Morant Licence boundary by UOG and previous operators

• Walton Morant Licence is c. 22,400 + Km² in area • Just 2,250 Km² of this covered by 3D data Morant Basin is covered by 5x5km grid of 2016 vintage 2D Remainder of licence area covered by legacy 2D seismic and 2006 & 2009

• Numerous leads identified by previous operators, which lie outside of core areas focused on by UOG (the UOG High-graded Prospects & Leads)

COLIBRI PROSPECT

- Source & Charge: Charge focus from Cretaceous kitchens to north and south; modelled charge timing, expulsion volumes and reservoir temperature all favourable
- Reservoir & Seal: Large syn-rift horst of porous, fractured and/or karstified platform carbonates sealed by overlying Lower Eocene marine shales
- **Trap**: Truncation of westward dipping carbonates in an E-W trending horst to relay ramp
- **Prominent low velocity anomaly** evident on 3D seismic across Colibri which conforms with structure
- Velocity and gravity modelling both indicative of porosities of >20%
- Pore pressure gradient modelling indicates intact seal across Colibri



Palaeokarst in Cretaceous rudist limestones in outcrop

Pore pressure modelling indicates reservoir presence and intact seal







olumes (MMstb) ¹	1U	2U	Mean	3U	Pg
Colibri	33.4	223	406	964	19%

¹ Unrisked Mean Prospective Resources per GaffneyCline Report, 2020

THE ORIOLE & STREAMERTAIL PROSPECTS - NEAR-TERM FOLLOW-ON POTENTIAL

- Source & Charge: Cretaceous source rock kitchen underlies the prospect.
- Reservoir & Seal: Eocene-Oligocene high-energy platform shoal grainstones re-deposited in a slope apron setting adjacent to the Walton Bank margin. Sealed by fine grained pelagic limestone.
- **Trap**: Stratigraphic trap updip pinch-out, down-dip thinning and lateral facies change.
- Prominent bright, soft amplitude anomaly at Oriole with fan-like geometry
- Low acoustic impedance indicates presence of porosity and potentially hydrocarbon presence
- Streamertail consists of stacked amplitudes at same depth interval as Oriole
- Additional follow-on potential in stacked, **porous in-situ carbonate grainstones** on platform margins – **Tody** & **Euphonia** prospects



Outcrop analogue and thin section of shoal carbonates from onshore Jamaica showing good interand intra-granular porosity





lumes (MMstb) ¹	1U	2U	Mean	3U	Pg
Oriole	44.7	172	220	453	13%
Streamertail	35.6	160	221	480	13%
Tody	9.4	39.8	53.2	113	14%
Euphonia	6.5	28.8	38.3	81	14%
Totals (MMstb)			532.5	1127	

MORANT BASIN PROSPECTIVITY - DE-RISKED MEDIUM-TERM EXPLORATION POTENTIAL

- Source & Charge: Cretaceous Source interval inferred and modelled to be hydrocarbon generative
- **Reservoir & Seal**: Early Eocene submarine fan sandstones – deepwater equivalents of high quality shallow marine sandstones in outcrop, sealed by overlying Miocene deep marine shales
- Trap: 3-way tilted fault block closure

Jaws

Thunderball



Thin section from onshore outcrop indicates excellent reservoir quality

¹ Unrisked Mean Prospective Resources per GaffneyCline Report, 2020

Early Cenozoic Unconformity Depth map

Moneypenny

²1.5 Billion bbls is UOG's arithmetic sum of the Unrisked Mean Prospective Resources of leads in the Morant Basin

Goldeneye

Blofeld

Moonraker

Scale = 1:713971

8000 16000 24000 32000 40000 mg

Volumes (MMstb) ¹	1U	2U	Mean	3U	Pg
Thunderball	76.3	417	603	1,356	10%
Moonraker	4.9	225	323	718	10%
Moneypenny	30.8	128	173	370	10%
Blofeld	29.9	129	171	361	8%
Goldeneye	41.1	140	174	346	10%
Jaws	6.7	28.3	38.5	82.4	8%
Totals (MMstb)			1483	3233	

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Nearly 1.5 BBO unrisked mean recoverable resources across six high-graded leads²

FURTHER PROSPECTIVITY - COLIBRI LOOK-ALIKES ON VINTAGE SEISMIC



Images of uninterpreted (above) and interpreted (below) 1982 vintage seismic from within the Walton Basin

identified on vintage 2D imagery from 2D to 3D Colibri carbonate horst

existing 3D area could

PROSPECTIVITY SUMMARY - LOW-COST ENTRY...HUGE POTENTIAL

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and leads included in Total: 2.4 BBO Mean Prospective Recoverable

Additional leads identified on 2016 Morant Basin 2D, 2006 & 2009 spec 2D data and legacy 2D data Total: 4.8 BBO Mid-case Prospective Recoverable



Compelling evidence for a substantially de-risked working petroleum system, with multi-play potential

Large, attractive prospects and leads identified with significant volumetric upside

¹7 Billion bbls is UOG's arithmetic sum of the Unrisked Mean/Mid-Case Prospective Resources for each prospect/lead identified within the Walton Morant Licence boundary by UOG and previous operators

High quality database with ~\$40million spent to date

Attractive Near-, Medium- and Longer-Term exploration targets with >7 billion barrels¹ potential across the Walton Morant Licence

TECHNICAL WORK PROGRAMME

Focussed, cost-effective work programme designed to further derisk high-value exploration potential

Piston Coring Survey

- Number of locations identified on seabed with anomalous features, with most also having interesting seismic features beneath
- These will be sampled for the presence of hydrocarbons
- Potential to further substantially de-risk the presence of an active petroleum system in the offshore basins

Seismic Reprocessing

- With positive results from the piston core survey, a substantial seismic reprocessing programme is proposed to be undertaken
- Recent technological advances could significantly improve the quality of the subsurface imaging of the 3D acquired in 2018
- Potential to integrate the 3D reprocessing with a subset of the 2D to provide a seamless dataset spanning the basinal area to the south of Jamaica
- Aim is to improve structural and reservoir imaging and increase likelihood of DHIs - all of which would feed into reducing geological risk and constraining volumetric ranges

Seismic reprocessing addresses trap and reservoir risk: P_g 33.8%, or approx. 1 in 3

A successful work programme will allow UOG to progress to a positive drilling decision

¹The change in Chance of Success estimations quoted are based on internal expectations and assumptions of the impact that positive results from the work programme may have on exploration risk

Chance of Success -Colibri example¹

Current risking: P_g 19.1%, or approx. 1 in 5

Piston Coring addresses source risk: P_g 25.4%, or approx. 1 in 4



Thank You

