UNITED OIL & GAS WALTON MORANT LICENCE, OFFSHORE JAMAICA



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UNITED OIL & GAS AT A GLANCE

A sustainable, cash-generative portfolio with high reward exploration upside



WHY EXPLORE IN JAMAICA?

Compelling evidence

for all the elements of an active petroleum system in Jamaica

High-quality database

supports the evidence for a working petroleum system

Substantial prospectivity

Drill-ready Colibri prospect has >400 MMbbls mean prospective resources¹

Significant follow-on

2.4 Bn bbls unrisked mean prospective resources identified across two basins²

Attractive Fiscal Terms

Standalone success-case NPV of \$3.9 Bn for Colibri at \$80 oil³



0Km 18Km 27Km 28Km 45K

¹ Unrisked Mean Prospective Resources per GaffneyCline Report, 2020;

² 2.4Bnbbls is UOG's arithmetic sum of the Unrisked Mean Prospective Resources for each prospect/lead;

³ United calculation based on development concepts by OPC

HIGH-QUALITY DATABASE

- More than US \$35m invested in 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

Hydrocarbon evidence from wells and coreholes





ONSHORE JAMAICA - A WINDOW INTO THE OFFSHORE PETROLEUM POTENTIAL



Regional tectonic reconstruction maps from Pindell & Kennan, 2001

- Geological history of Jamaica linked to complicated Caribbean tectonics
- Onshore and southern offshore Jamaica (Walton and Morant basins) share similar geological history until mid-Miocene
- Miocene-Recent transpressional movement on restraining bend of the Cayman Trough spreading centre leads to uplift and exposure of the island of Jamaica
- Related transtensional movement to south forms the deep Morant Basin

Uplift and exposure of the onshore provides a window into the preserved geology and petroleum system elements in offshore basins



PETROLEUM SYSTEM ELEMENTS PROVEN ONSHORE JAMAICA

Source

Reservoir

Seal









Cenomanian-Turonian











Cretaceous rudist limestones in outcrop



Eocene-Oligocene porous shoal carbonate facies



Middle Eocene fluvio-deltaicshallow marine clastics







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Shales, chalks and marls in outcrop on Jamaica



Mitchell et al

Eocene-Miocene White Limestone Group Shallow Facies Eocene-Miocene White Limestone Group Deep Facies Eocene Yellow Limestone Group Paleocene-Eocene Wagwater Group/John Crow Rift Cretaceous

REGIONAL EVIDENCE FOR A CRETACEOUS-AGED SOURCE ROCK FAIRWAY

- Recent work on regional source rock occurrences indicates that Jamaica is part of an "Upper Cretaceous Caribbean source rock fairway"
- Highly favourable conditions for source rock deposition
- In Jamaica, this source rock fairway is represented by the Cenomanian-Turonian Rio Nuevo Fm





Source: Erlich 2003

ABUNDANT EVIDENCE FOR AN ACTIVE PETROLEUM SYSTEM IN JAMAICA



ABUNDANT EVIDENCE FOR AN ACTIVE PETROLEUM SYSTEM IN JAMAICA

- Fluid pipes and fault-related alteration zones with super-stratal collapse features or sags in overburden (especially on NE-trending faults)
- Numerous **soft amplitude anomalies** adjacent to or above faults or fluid pipes in shallow hemipelagic carbonate section
- Possible triggers

Soft amplitude anomaly

- Crustal thinning associated with trans-tension
- Elevated heat flow recognised elsewhere on Nicaragua Rise
- Overpressure from hydrocarbon generation at depth supported by pore pressure and petroleum systems modelling

Sag in overburden

• Post-Miocene change in stress regime likely shut down most of the conduits



Arbitrary seismic amplitude (above) & variance (below) sections from eastern part of 3D indicating fluid escape features terminating at Mid Miocene level



Seismic example showing soft amplitude anomaly with apparent fluid pipe termination at the anomaly. Line also shows a sag feature above fluid pipe.

Seismic example showing possible DHI

DHI

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

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

- Limited wells, drilled on limited data
- Onshore, drilling targeted surface structural expressions, likely breached during Neogene uplift
- Offshore, drilling targeted carbonate banks

changed?

• Poor quality legacy seismic data



- Exploration concepts targeting intact prospectivity in the offshore basins, not the basin margins or breached structures onshore
 - Better understanding of the regional source rock distribution and geological history in general
 - Data quality 3D acquired in 2018 (processed in 2019) a game-changer in terms of image quality, clarity and geophysical attributes



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



WALTON BASIN - 3D-DEFINED PROSPECTIVITY



THE COLIBRI PROSPECT – DRILL-READY

- Reservoir: Large syn-rift horst of porous, fractured and/or karstified platform carbonates
- Trap & Seal: Truncation of westward dipping carbonates in an E-W trending horst to relay ramp, sealed by overlying Lower Eocene marine shales
- Source & Charge: Charge focus from Cretaceous kitchens to north and south; modelled charge timing, expulsion volumes and reservoir temperature all favourable
- 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





Cretaceous rudist limestones in outcrop and from core





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

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

- **Reservoir** Shallow Eo-Oligocene platform high-energy shoal grainstones redeposited in a slope apron setting adjacent to the Walton Bank margin.
- Trap & Seal: Stratigraphic trap updip pinch-out, down-dip thinning and lateral facies change. Sealed by fine grained pelagic limestone.
- Source & Charge: Cretaceous source rock kitchen underlies the prospect.
- 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







Volumes (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%

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

- Reservoir: Early Eocene submarine fan sandstones – deepwater equivalents of high quality shallow marine sandstones in outcrop
- Trap & Seal: 3-way tilted fault block closure, sealed by overlying Miocene deep marine shales
- Source & Charge: Cretaceous Type II & Eocene Type II/III shales
- Candidate area for future acquisition of 3D



A' Server Jaws Thunderball Blofed Monraker Jaws Thunderball Blofed Monraker Did vice recting Did 2D PreSTM



Thin sea	ction f	rom ons	shore o	utcrop
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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%

~1.5 BBO unrisked mean recoverable resources across 6 highgraded leads²

¹Unrisked Mean Prospective Resources per GaffneyCline Report, 2020

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

HIGHLY ATTRACTIVE & ROBUST ECONOMICS

- Highly competitive fiscal terms State take ~35-45%
- ~\$30m exploration well cost¹ to test >400 MMstb mean prospective resources
- Several economic models and development scenarios screened for Colibri
- Positive economics as low as \$25/bbl
- Minimum commercial field size ~80 mmbo at \$80/bbl
- Attractive NPV and IRR at \$80/bbl for mean case prospective resources

Colibri Moon coco (406mmbble)	Oil-price US\$				
Colibri Mean-case (40011111bbis)	\$30	\$60	\$80	\$100	
NPV (\$m)	470	2,500	3,900	5,200	
IRR	15%	32%	40%	47%	

- Success at Colibri could substantially de-risk multiple follow-up prospects and leads
- Potential for significant production from existing identified prospects and leads







HIGH IMPACT EXPLORATION POTENTIAL, WALTON-MORANT LICENCE, JAMAICA

- World-class exploration licence
 - Compelling evidence for a working petroleum system
 - Multi-play potential
 - Excellent data-set including >2,250km² 3D seismic data
 - Drill-ready Colibri prospect independently estimated to contain over **400mmbbls**¹ recoverable prospective resources
 - >2 billion bbls² of substantially de-risked follow-on potential in high-graded leads and prospects
- Compelling Economics
 - Highly favorable fiscal regime (35-45% state take)
 - Exploration drilling costs of c. \$30m
 - Colibri development has potential to realize NPV return of \$3.9bn
- Supportive host Government
 - Two-year licence extension request granted in January 2022
- Increasingly positive market environment
- Opportunity now exists to join United in drilling a potentially basin-opening exploration well

¹ Un-risked Mean Prospective Resources per GaffneyCline Report, 2020 ² 2.4 Bn bbls is LIOG's arithmetic sum of the LIP risked Mean Prospective Poseurces for s

² 2.4 Bn bbls is UOG's arithmetic sum of the Un-risked Mean Prospective Resources for each prospect/lead.



alton Morant Licence: 22,400km²; United equity: 100%

Unlocked basin-wide potential is transformative







For more information visit Envoi at Stand 763 in the International Pavilion

Thank You



