



# MOROCCO

PHASE 2 RIGLESS TESTING PROGRAMME
SANDJET TO UNLOCK RESOURCES GROWTH

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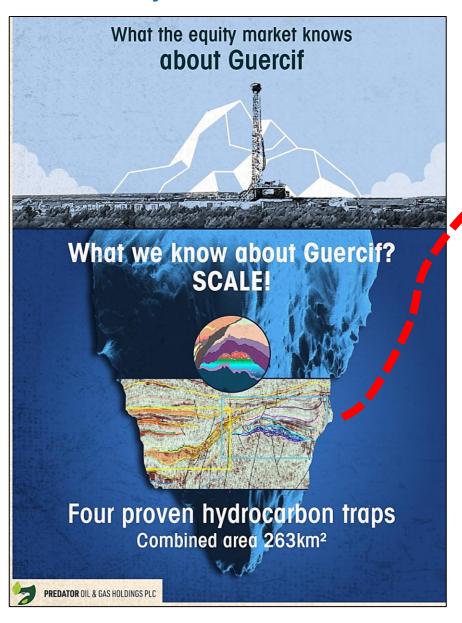
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### Summary – Morocco

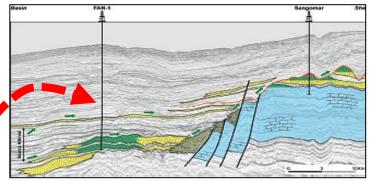


#### **SCALE REMINDER**

- 4 proven hydrocarbon traps
- 3C 312 BCF + 3P 810 BCF gas resources
- 3P 79-154M brls condensate resources

#### **GEOLOGICAL CONTEXT**

World Class African margin setting



#### **PHASE 1 RIGLESS TESTING**

- No impact on volumetrics
- Confirmed formation damage
- Supports NuTech net pay results
- Gas samples very pure methane
- De-risks CNG development concept

#### **PHASE 2 RIGLESS TESTING**

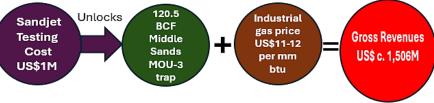
Sandjet + NuTech to unlock resources growth

#### **TIMETABLE**

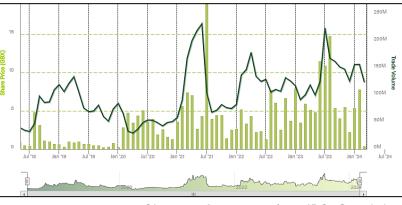
- Amendment #4 to 5/6/24 submitted 23/1/24
- Sandjet ready to mobilise in April 24
- Coiled Tubing Unit available by end-April 24
- Projected First Gas sales Q1 2025

### Value generation example





- Fully funded
- £8.76M 31/8/23
- Testing costs c. £0.75M



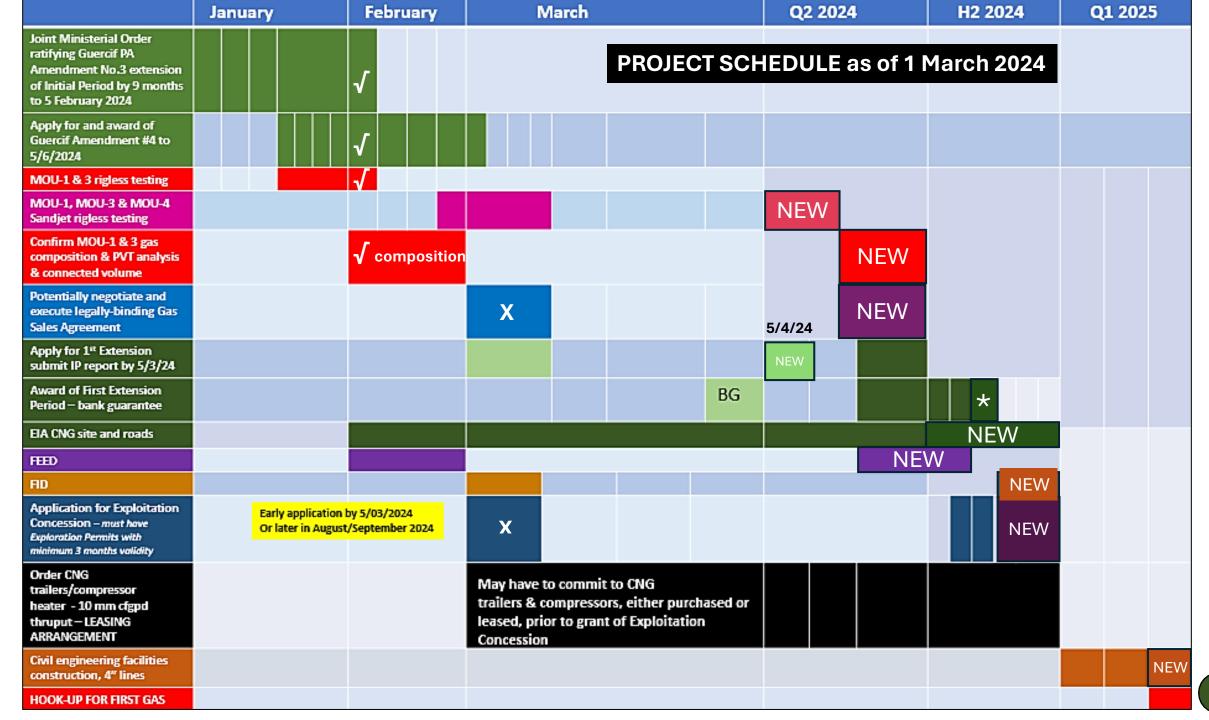
Share performance since IPO @ 11/3/24

- Share Liquidity
- Buying/selling catalysts
- PG stake value
   @ 26 x annual director's pay

PG stake in PRD 8%

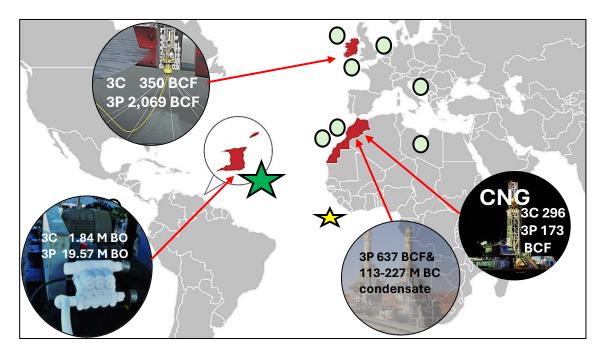
Tracs International CPR 2023 & Scorpion Geoscience ITR 2024 Management estimates

Multiply Gross values by 0.75 to yield net to PRD Additional infill drilling likely to be required after initial production period, two wells allowed for in Project Economics share 3



### **Predator Snapshot**

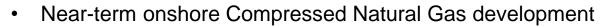
Strategic focus on projects capable of having high impact on share price Developing unique projects in 3 jurisdictions



- Operator in early-stage development of assets
- Effective cost management
- Retain high project equity



### Morocco



Medium-term gas-condensate exploration/appraisal



#### Trinidad

- Near-term onshore oil development & production
- Medium-term Enhanced Oil Recovery with CO2 injection
- Long-term rental of reservoirs for CO2 sequestration



#### **★** Ireland

Medium-term M & A



#### West Africa

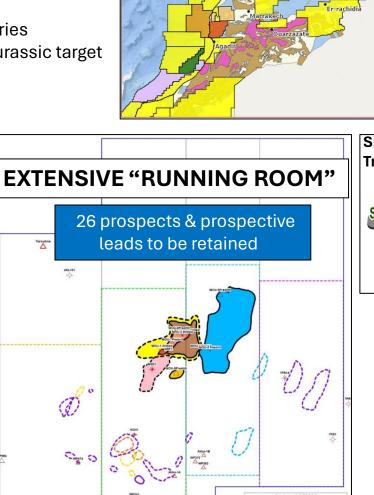
- Medium-term high impact exploration opportunities
- Utilising industry and government network
- Leveraging offshore farmout skills Previously to Kosmos Energy, BP, Bluewater, Serica Energy, Beach Petroleum, Lundin Petroleum, Encore and Valhalla Oil & Gas



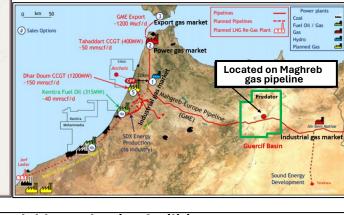
### Predator's unique status as pathfinder for Moroccan CNG development to industry



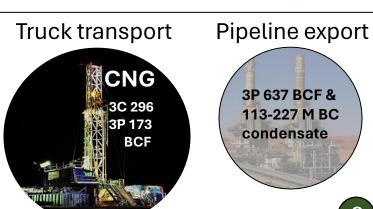




Guercif







### 2021 & 2023 Drilling Results

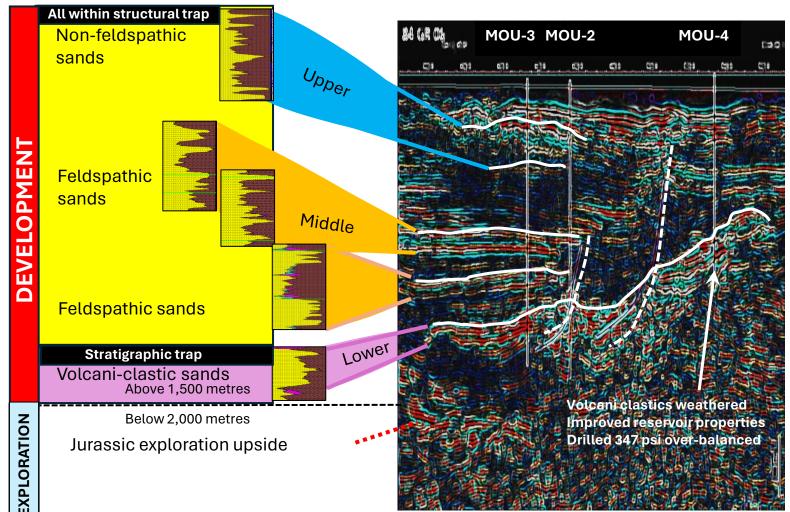


Middle & Upper Sand Groups Structural trap 16 – 21 km2

#### FOUR SEPARATE GROUPS OF SANDS

Each group with multiple thin sands
Separate mineralogy for Lower, Middle & Upper groups

**Lower Sand Group** Stratigraphic trap 68 km2 Line of seismic section

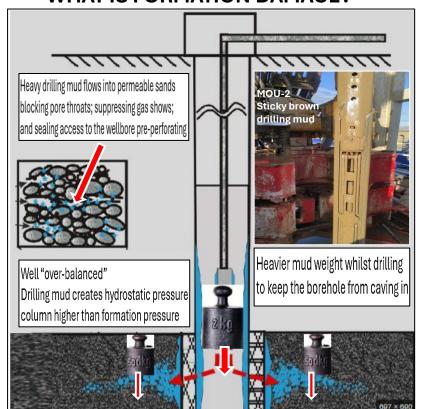


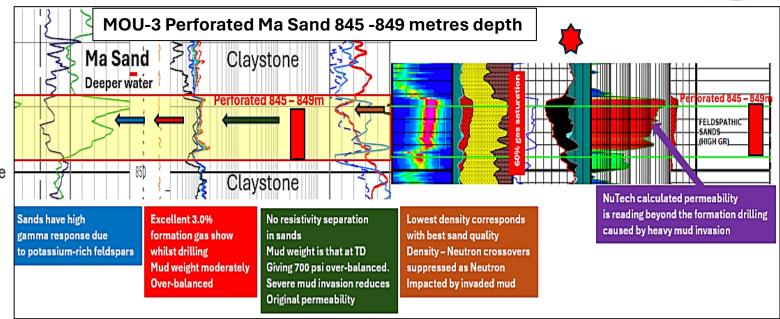
### Rationale for Rigless Perforating Programme

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- Formation damage suspected common issue in oil & gas drilling
- Heavy drilling mud at time of logging
- Mud invasion suppresses wireline log response
- NuTech Al reservoir characterisation "sees" beyond formation damage

#### WHAT IS FORMATION DAMAGE?





#### Initially select perforating zones with key gas criteria

#### Ma Sand in MOU-3

- Dry gas show whilst drilling @ 846 metres depth
- Nu-Tech maximum porosity
- Nu-Tech maximum calculated permeability
- Ma Sand thickness
- Analogue LAM-1 Rharb Basin sand attributes
- LAM-1 flow test permeability
- Flowed 2.1 mm cfg/day (absolute open hole 10 mm cfg/day
- NuTech maximum gas saturation
- Seismic amplitude response for Ma Sand
- Within mapped structural closure for Ma Sand

30,000 C1(methane)

35.1%

43.1307 mD

4 metres

1 metre contributing

23% porosity

35% gas saturation

5.5 mD

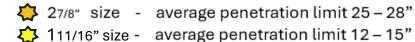
62%



### Perforating Technique Options and Limitations

#### Conventional perforating guns

Uses explosives run on Schlumberger slickline



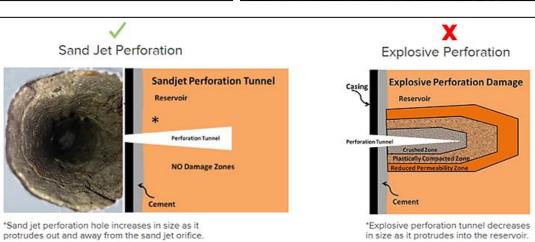
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Un-conventional perforating jet
Use high pressure water and sand slurry
Run on Itafluids coiled tubing unit

· penetration limit up to 60"

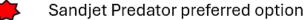








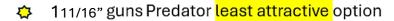




- Ideal for penetrating beyond formation damage
- · Improved efficiency in opening up formation
- Multiple perforations in one logging run cost effective
- · Depth of penetration can be varied with injection time



- 25-28" penetration sufficient to get past formation damage based on LAM-1 Rharb Basin
- LAM-1 final mud weight 1.45 SG versus 1.49 SG MOU-3
- · LAM-1 pre-test 531 psi over-balanced
- MOU-3 pre-test 469 psi over-balanced
- Conclusion 27/8" guns should get past formation damage



- Likely to confirm only a minimum limit of formation damage
- Confirmation of formation damage increases value of NuTech data

#### **LIMITING FACTORS 2023 RIGLESS TESTING PLANNING**

- 1. Delay in ratifying Amendment #3 Initial Period extension to 5/02/24
- . By 1/12/23 no possibility of deploying Sandjet in Morocco from overseas by 5/02/24
- 3. Perforating with guns initiated in Q4 2023 but then stood down due to delayed ratification
- 4. Available 27/8" large guns in Morocco disappeared due to retention by another operator
- 5. Import of more large guns would have taken several months
- 6. Limited availability of 111/16" guns only near-term option by 5/02/24

Proceeded with small guns - downside case would validate concept of formation damage



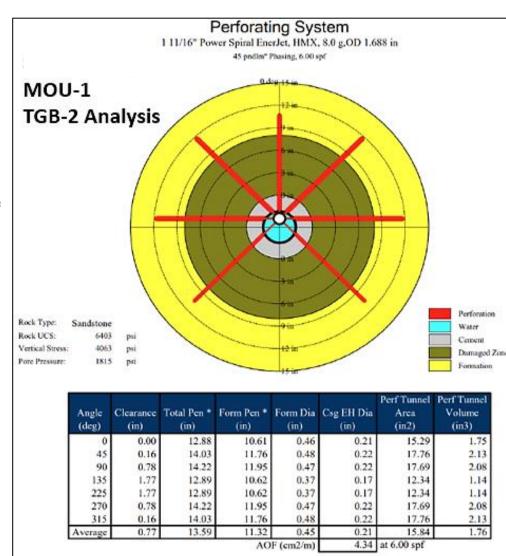
### Phase 1 Rigless Testing Results

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- Four intervals in MOU-1 & MOU-3 perforated
- All perforating guns fired as intended
- No flow was recorded & no gas nor water was produced
- Surface gauges remained at 0 psi after allowing for up to 24 hours for formation to clean-up
- Conclusion drawn: 111/16" guns have insufficient penetration power
- Third-party pre-test estimate of depth of formation damage for TGB-2 in MOU-1 estimated at 8 "
   Formation penetration was predicted to average 11.32"
- Consideration should also be given to the length of time between well completions & testing 31 months for MOU-1 & 7 months for MOU-3

## Despite inclement weather testing programme completed under-budget High winds preventing crane work





### Forward Programme – Phase 2 Rigless Testing with Sandiet

NUTECH

ह्म NUTECH B Reservoir Characterisation

Combination of Sandjet & NuTech can unlock resources growth Sandjet perforates additional sands

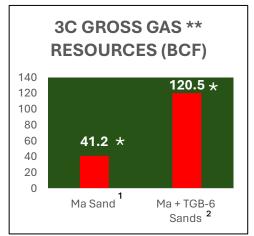
### MOU-3 **Perforating Programme Ma & TGB-6**

- One Sandjet run Middle Group Sands
- Including TGB-6 and Ma Sand
- ★ 20 perforations 20 metres of sand
- compared to 4 metres in Phase 1 perforating guns for Ma Sand

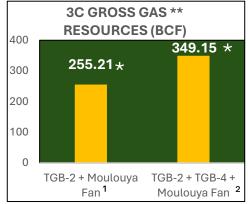
## Middle Ma Sand Rharb, Onshore Morocco Similar thickness

15 mmscfd

#### Ma & TGB-6 Middle Group Interval



#### TGB-2, TGB-4 & Moulouya Fan Sand Intervals



- Tracs International CPR 2023 & Scorpion Geoscience ITR 2024
- Management estimates
- Multiply Gross values by 0.75 to yield net to PRD
- Additional infill drilling likely to be required after initial production period, two wells allowed for in Project Economics

### Phase 2 Summary of Rigless Testing Objectives



- Perforate multiple groupings of sands with Sandjet based on NuTech interpretation
- Injection times to be increased where necessary to penetrate zone of formation damage
- Consider using cleaning agents to stimulate initial flow and well clean-up
- Establish well clean-up periods may be longer for MOU-1
- Evaluate flow and pressure performance to assess connected volumes to the well
- Assess potential to co-mingle producing zones in order to optimise for production
- Determine potential stabilised flow rates

#### Sandjet has not been widely used in Europe

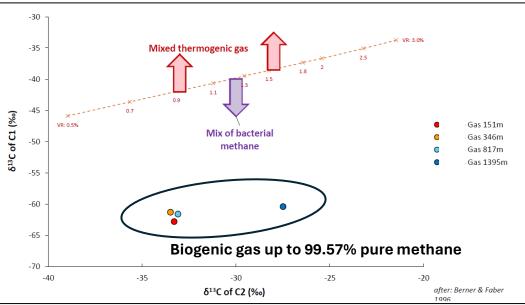
Lithuania 1995 oil field re-development – used Sand Jet to overcome significant formation damage after 10 years

Due to heavy drilling mud invasion – material increase in well productivity resulted

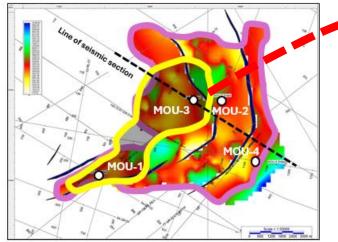
LITHUANIA CASE	Conventional guns	Sand Jet	Sand Jet	Sand Jet
Penetration	9 inches	8 inches	13 inches	18 inches
Minutes/perforating		15	30	60
Conventional guns		217 bopd	0.9 bopd	400 bopd
Sandjet		833 bopd	917 bopd	800 bopd
Minutes/perforating		15	30	60

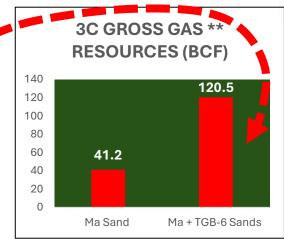
### Impact of Sandjet Testing Success on Expanded CNG Development

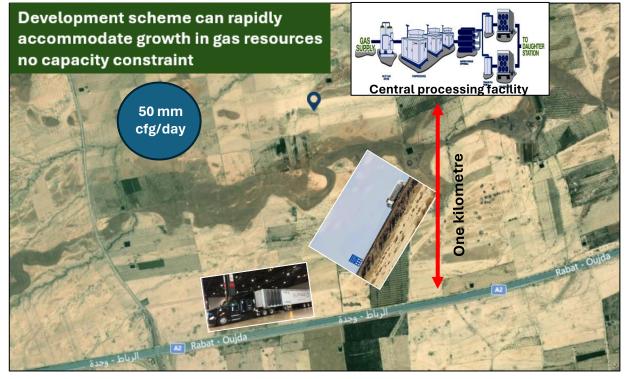
- √Gas composition simplifies FEED
- √Current land use will not impact EIA
- √Gas sales principles set with Afriquia Gaz
- √Scalable project finance becoming organically sourced



Composition: % of total hydrocarbon gas - corrected for air												
C1	C2	C2=	C3	C3=	i-C <sub>4</sub>	n-C <sub>4</sub>	C4=	neo-C <sub>5</sub>	i-C <sub>5</sub>	n-C <sub>5</sub>	C5=	C6+
Methane	Ethane	Ethene	Propane	Propene	iso-butane	n-butane	Butenes	neo-pent.	iso-pent.	n-pent.	Pentenes	
99.57	0.14											0.29
99.47	0.25		0.03	0.06	0.02							0.16
98.88	0.11		0.04	0.26				0.10				0.61
99.54	0.07											0.38
98.84	0.34		0.09	0.30	0.04							0.40
99.19	0.36		0.07	0.14	0.02							0.23
98.04	0.59		0.31	0.03	0.16	0.09		0.06	0.10	0.03	0.03	0.55

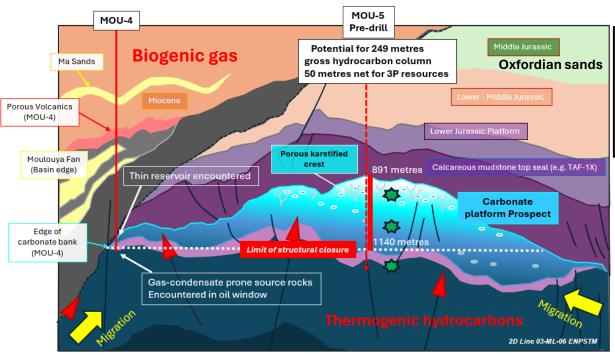


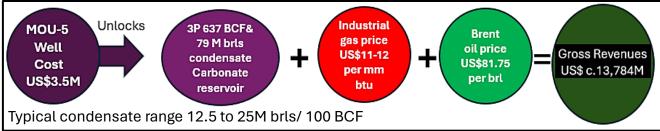




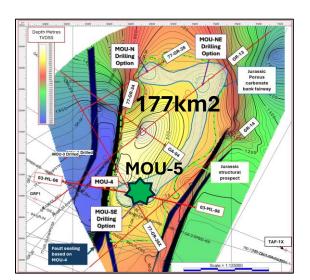
### Jurassic Titanosaurus Appraisal & Exploration

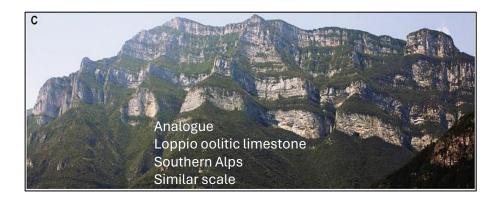






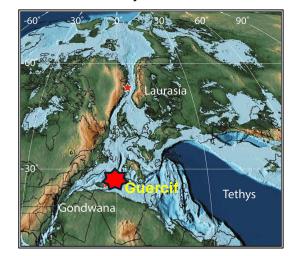
- Well to 1,140 metres costing US\$ 3.5M 12 days
- Evaluating 249 metres of potential reservoir section
- 2 metres only in MOU-4
- MOU-4 established play concept; source potential & maturity
- Principle Risk migration from off-structure to fill trap



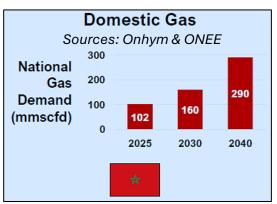


Tracs International CPR 2023 & Scorpion Geoscience ITR 2024 Management estimates

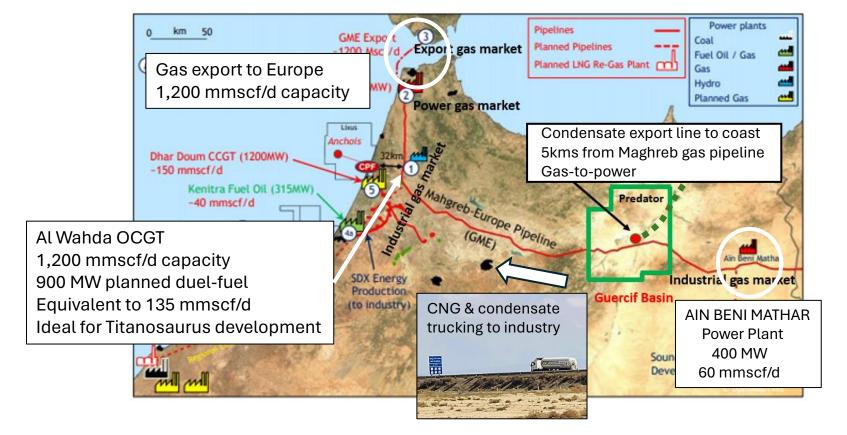
Multiply Gross values by 0.75 to yield net to PRD Additional infill drilling likely to be required after initial production period, two wells allowed for in Project Economics Guercif part of the network of Middle East & Mediterranean Tethyan Jurassic carbonate platforms



### Jurassic Growth Supported by Diverse Market Access

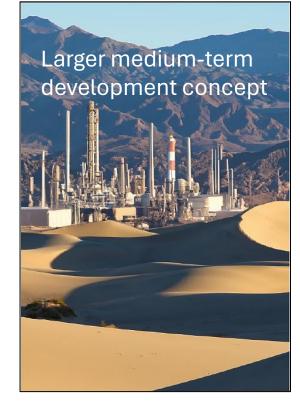


- PRD's rapidly expanding portfolio is out-stripping management's capabilities to fully develop its assets
- Moroccan exploration expertise since 2006 needs to be leveraged for partnering opportunities or, preferably PRD will divest partially or fully its Titanosaurus Project in a success case





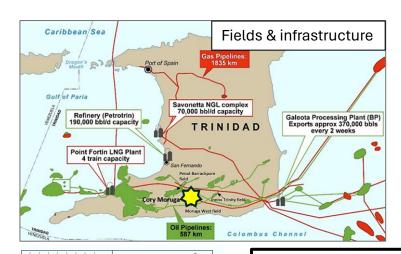


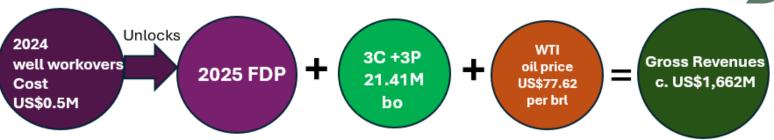


### TRINIDAD – Cory Moruga Asset

#### Value generation example







- Moruga West comparison Herrera #3 Sand only
- Re-perforated IP 100 bopd
- 103,238 bo produced
- 579 brls water only over field life
- 111/16" perforating gun

103,238 bo

WTI
oil price
US\$77.62
per brl

Gross
Revenues
US\$ c. 8M

Herrera #3 Sand

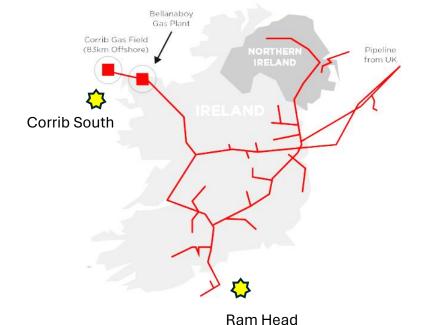
WTI spot price US\$77.62/bo 11/03/24

- Cory Moruga is a rare example of a light oil discovery onshore Trinidad
- Snowcap-1 discovery + other shut-in production wells Moruga West field extension
- US\$ c. 47.9M in tax losses to offset against future PPT
- Opportunity to re-set the economic model for onshore oil Trinidad
- Apply new perforating strategy (combining NuTech & Sandjet)
- · Potential "game-changer" for well workovers
- CO2 EOR experience at Inniss-Trinity critical for continuing good relationship with MEEI
- PRD providing comments on MEEI CO2 Sequestration Draft Policy

#### **Current Status**

- Administrative matters progressing smoothly office established; STOW; bank account
- Site investigation to access old well heads & assess condition underway
- First wells defined on technical basis for first fast-tracked workovers
- Oil production facilities inventory & transport options to sales points under review
- First Oil target end H1/beginning H2 2024

### **IRELAND**



Successor authorisations still under consideration

7

- GSRO/DECC feedback indicated by end Q1 2024
- Security of gas supply now recognised as a priority
- PRD focussed on M & A to realise value of non-core assets

#### Volumes are material to Ireland and PRD

### Ireland's only remaining Contingent gas resources

CR Gas Project	CR Classification	Gross (Bscf)			Net Predator (Bscf)		
on das i roject		1C	2C	3C	1C	2C	3C
Ram Head	Development Unclarified	36.00	128.70	350.40	18.00	64.35	175.20

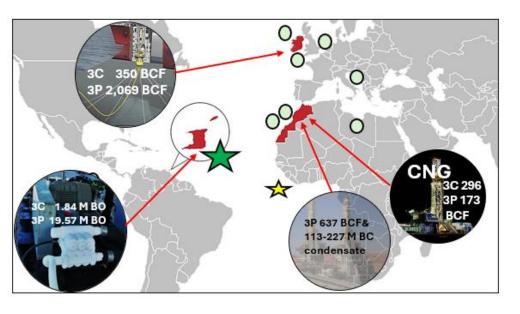
Ireland - Contingent Resource summary - Unrisked

Prospective Gas Opportunity	(	Gross (Bc	f)	Net Predator (Bcf)			
Prospective dus opportunity	Low	Mid	High	Low	Mid	High	
Corrib South	26.50	137.80	484.80	13.25	68.90	242.40	
Ram Head	89.50	464.10	1584.80	44.75	232.05	792.40	
Total	116.00	601.90	2069.60	58.00	300.95	1034.80	

Ireland- Prospective Resource summary - Unrisked

### Leveraging Management Expertise







As in 2014 the West African margin is once again becoming an exploration hot spot

Cote d'Ivoire: Eni announces a major discovery in block CI-205, offshore Cote d'Ivoire 8 March 2024

- Directors have a proven track record in securing farmouts
- Pathfinder Hydrocarbon Ventures Ltd. (PG & CK et. al.)



- First group to secure a permit in Agadir Basin in several years
- Farmed out Foum Assaka offshore Morocco to Kosmos Energy
- 25% for US\$16.2M gross value in the 2012 3D seismic programme
- US\$1M cash
- Sold PHVL into Fastnet Oil & Gas Plc for US\$8M in cash & shares
- 1% royalty on oil sales rising to 3% after recovery of certain costs
- As Fastnet farmed out 12.5% to Asian Group SK Innovations pre-drill
- Consideration US\$20.4M
- Management sees the potential for new opportunities
- M & A focussed leveraging industry network and potential for project equity minority stake swaps of near-term production for material exploration prospects

### 2024 Outlook



### **Moroccan Gas**

- Deliver the Sandjet Testing Programme
- Confirm resources to initiate CNG development

### **Trinidad Oil**

- Deliver the Cory Moruga well workovers
- Establish first oil production

### **Exploration Upside**

- · Drill the Titanosaurus Jurassic Project
- Evaluate M & A opportunities where value can be added through farmout "know-how"



FOCUS INITIALLY ON CNG DEVELOPMENT "MIDDLE SANDS" 8 – 10-year gas sales profile at up to 50 million cfg/day









### **ESG**



United Nations Sustainable Development Goals ("UN SDGS") as a benchmark and guiding principle

Topic 11.14 & 11.15 Economic impacts & local communities

In 2023 the Company spent 25,855,427 Dirhams in Morocco on local services

Topic 11.16 & 11.17 Land & resource rights & rights of indigenous peoples

- We always engage with owners of land that it intends to carry out field operations on prior to commencement of operations
- Appropriate compensation is paid where it is necessary to construct civil works, including a well pad & access roads, that may result in inconvenience & an alternative use of the land. The intention is always to return the land to its original state
- Consultation with olive tree farmers is carried out to ensure valuable water resources are not compromised by any of its operations
- Local communities provide the security guards (currently 10) that protect our well sites and storage facilities from unauthorised access
- Improvement of the local tracks (see below) is welcomed by the community & olive tree growers as it provides improved quality of access for them to essential services & amenities

Topic 11-5, 11.6 & 11.4 Waste, water & effluents & bio-diversity.

Natural vegetation is re-established in these areas within one year (see below) & potentially over time may or may not contribute to improving bio-diversity in an otherwise barren landscape.









### MOU-2 Re-evaluation Based on MOU-4 Drilling Results

- Slower velocities applied from MOU-4 Moulouya Fan penetrated on depth conversion
- 3 gas samples whilst drilling in section equivalent to MOU-3 shallow gas
- Slow drilling MOU-2 through volcanic section
- MOU-4 same section drilled much more quickly without incident removed mud motors
- Volcanic ash very porous



