

Q1 2019

# CORO ENERGY PLC UPDATE: DUYUNG PSC ACQUISITION

FEBRUARY 2019



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BIG STEP IN BUILDING THE SE ASIAN PORTFOLIO

BIG STEP IN BUILDING THE SE ASIAN PORTFOLIO ACQUISITION OF A 15% INTEREST IN THE DUYUNG PSC, WEST NATUNA BASIN, OFFSHORE INDONESIA, CONTAINING THE MAKO GAS FIELD



ASSET IN A GREAT POST CODE NEAR TERM DRILLING EXCITEMENT

ULTRA LOW RISK BUT HIGH VALUE STEP OUT EXPLORATION POTENTIAL ADJACENT TO ESTABLISHED INFRASTRUCTURE WITH CAPACITY AND ACCESS TO THE SINGAPORE GAS MARKET



### DUYUNG PSC HIGHLIGHTS

### **DUYUNG PSC HIGHLIGHTS** MAKO GAS FIELD – A SHALLOW GAS ACCUMULATION COVERING A HUGE AREAL EXTENT

- Giant anticline, c. 350 square km of closure above the GWC
- Shallow depth of reservoir, circa400m, excellent seismic definition with strong amplitude signature and resolution to define reservoir architecture
- 276 Bcf of certified gross 2C
  recoverable dry gas resource,
  97% methane, with 392 Bcf
  of 3C resource representing
  field upside
- Plan of Development submitted to Indonesian authorities

#### LOW RISK STEP OUT EXPLORATION - CAN MORE THAN DOUBLE RECOVERABLE RESOURCES, WHILE APPRAISING THE MAIN FIELD

- Deeper Tambak prospect beneath main field – c. 250 Bcf mid-case and 45% CoS
- Mako Shallow prospect above the main field c. 100 Bcf mid-case and 75% CoS

#### CLOSE TO THE WEST NATUNA TRANSPORTATION SYSTEM ("WNTS")

- > 16 km from nearest tie-in to the open-access WNTS pipeline
- Main route for West Natuna gas to get to market, capacity for additional volumes
- Heads Of Agreement with Gas Buyer in Singapore signed





TRANSACTION TERMS: CASH & SHARE DEAL

## TRANSACTION TERMS: CASH & SHARE DEAL, FUNDING OF 2019 DRILLING CAMPAIGN

### EARNING A DIRECT INTEREST IN PSC

- Coro to acquire 15% interest in Duyung PSC
- Consideration of shares and cash
- \$2.95MM in cash and \$1.85MM in Coro shares to be paid to PSC owners
- \$10.5MM to be invested in 2019 work programme
- Values PSC at \$91.5MM gross

DEAL UNDERWRITTEN BY CORNERSTONE INVESTORS

- €22.5 MM Institutionally Underwritten Eurobond issue
- Underwritten by funds managed by investors including Lombard Odier Asset Management (Europe) Ltd
- 3 year maturity, 5% annual coupon
- Provides funding certainty for both transaction and drilling programme



#### CORPORATE IMPACT

### **CORPORATE IMPACT**

**ANOTHER IMPORTANT** STEP IN BUILDING CORO'S **RESOURCE BASE IN SE ASIA** 

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ITALIAN PLATFOR

NET 2P & 2C RESERVES/ RESOURCES (Bcf)

32.6

NET MID-CASE PROSPECTIVE RESOURCES (Bcf)

FORECAST PRODUCTION PLATEAU (MMscf/d)

**IMPORTANTLY, BRINGS PROSPECTIVE RESOURCE** INTO FOCUS, WITH UPCOMING, NEAR-TERM **DRILLING ACTION** 

FORECAST PRODUCTION PLATEAU SHOWS CORO IS A MID-CAP IN THE MAKING

M	POST-BULU ACQUISITION	POST-BULU & DUYUNG ACQUISITIONS	
i	186	227	
	- 2	52	
-	30-35	43.5-48.5	



### MAKO GAS FIELD, DUYUNG PSC **HIDING IN PLAIN SIGHT**

Biogenic gas accumulation located in the prolific West Natuna basin Shallow, Pliocene-age Intra-Muda sandstone reservoir, with gas water contact at c. 391m TVDss Four wells have penetrated the field to date Reservoir cored & tested by the Mako South-1X well (June 2017) 20%+ porosities, multi-Darcy permeability Flowed 10.8 MMscf/d on test Dry gas, no H2S, minimal CO2, over 97% methane Independently certified by GCA

	1C	2C	3C
(BCF)	184	276	392

**CERTIFICATION BY GAFFNEY, CLINE & ASSOCIATES (NOV. 2018)** 

### MAKO **GAS FIELD**



#### THE MAKO ANTICLINE

Huge structure 47 km long, 16 km wide c. 350 sq km of areal closure above the GWC



### **GAS SAND ANOMALY DEFINES FIELD LIMITS**

SEISMIC DEFINITION

IS CLEAR. THE GAS-

BEARING INTRA-MUDA

SANDSTONE RESERVOIR

GAS SAND ANOMALY DEFINES FIELD LIMITS

**ANOMALI DHI** PENYEBARAN RESERVOIR GAS SAND -600 -LIGHTS UP IMPRESSIVELY -650





### A MAKO PRODUCING ANALOGUE; A&B FIELDS THE NETHERLANDS

#### A12-CPP

- Chevron A&B fields, North Sea Dutch sector offshore
- Discovered by Shell/NAM in 1980's, First Gas from A12 2007
- > 3 main gas accumulations with a total field GIIP of 650 bcf
- Clastic reservoirs of Pliocene age, gas trapped in low relief anticlines
- Target reservoirs are at depths of 350m -750m
- Sands have very high porosities and permeabilities and are poorly consolidated so production is through expandable screens
- Fields were discovered and developed on 2D seismic datasets only in a very similar way to Mako



#### **B13-A SATELLITE**



ΑΜΑΚΟ

PRODUCING

ANALOGUE



A18: DISCOVERED BY NAM IN 1987 A12: DISCOVERED BY NAM IN 1988 B13: DISCOVERED BY NAM IN 1990

B10: DISCOVERED BY NAM IN 1991B16: DISCOVERED BY NAM IN 1992A15: DISCOVERED BY CLYDE IN 1992

#### MAIN RESERVOIR









LOW RISK STEP OUT EXPLORATION POTENTIAL (1) LOW RISK STEP OUT EXPLORATION POTENTIAL (1)

- Closure of circa 15 square km beneath the north of the Mako gas field
- Lower Gabus structure this is the classic 'play' in the West Natuna basin
- Previous wells testing the Lower Gabus in the block failed, however the Tambak prospect demonstrates amplitude brights, conformable with structure, the other structures do not
- Prospective resources are in the 200 300
   Bcf range, with a mid-case 250 Bcf
- Chance of Success estimated to be 45%



CORO ENERGY - DUYUNG PSC ACQUISITION



LOW RISK STEP OUT EXPLORATION POTENTIAL (2)

11

LOW RISK STEP OUT EXPLORATION POTENTIAL (2)

- Mako Shallow prospect comprises two shallow reservoirs above the crestal 'horst' in southern end of main field
- Prospective resources are estimated at 100 Bcf recoverable with a Chance of Success of 75%
- Ultra-low risk exploration amplitude shut-offs, structurally conformable
- Single well could test the prospect and appraise the southern area of the field



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PROSPECT

SHALLOW

SEISMIC

MAKO FIELD

MAKO SHALLOW PROSPECT



#### **ACCESS TO SINGAPORE VIA** WNTS PIPELINE

### **ACCESS TO SINGAPORE VIA WNTS PIPELINE**

- West Natuna Transport System >(WNTS) completed in 2000
- 656 km in length >

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- Operated by ConocoPhillips >on behalf of the West Natuna PSCs
- Operates dry, less than >10% CO2 specification
- "Open access"
- Mako located c. 16 km from Kerisi platform (nearest access point)
- Heads of Agreement signed >with Singaporean buyer for Mako gas in 2018







## LOW RISK, HIGH VALUE ACCRETIVE DEAL WITH SUBSTANTIAL UPSIDE



SUBSTANTIAL UPSIDE

Deal Metrics	(\$/MMBtu)
Acquisition Cost	0.34
Development Capex	0.90
Opex	1.25
Singapore Gas Price Range	8 - 11



### **DUYUNG ACQUISITION: A MAJOR STEP FORWARD IN PORTFOLIO DEVELOPMENT**

HIGH QUALITY ASSET, OVERLOOKED BY THE INDUSTRY

NEAR-TERM DRILLING EXCITEMENT: SUPER LOW RISK, BUT HIGH VALUE **EXPLORATION POTENTIAL** 

ACCESS TO SINGAPORE GAS MARKET: HOA SIGNED

**ACQUISITION FOR EXCEPTIONAL VALUE:** \$0.34/MMBTU ON 2C BASIS

ΑΜΑΚΟ PRODUCING ANALOGUE



