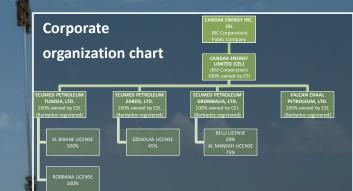


#### **Investment Highlights**

- Recognized operator in Tunisia
- Mature onshore assets with remaining potential for development
- Producing gas condensate field with gas reserves to be valued
- Listed vehicle on TSX



# **PRODUCING ASSETS: TUNISIA**

.

#### EZZAOUIA (45% WI)

- 13 Onshore wells, currently 6 producing
- Current field production: 400 750 bpd
- Significant additional potential resource with infield drilling and waterflooding

#### EL BIBANE (100% WI)

- Successful result of gas cycling through the use of EBB-4 as a gas injector, current condensate production of 300+ bopd
- Operations secured with the purchase of a second compressor
- Infrastructure now in place for potential gas sales

#### ROBBANA (100% WI)

- Current production: 30 barrels per day
- G&G study confirms potential (oil recovery < 4%)</li>
- Development plan ready to drill



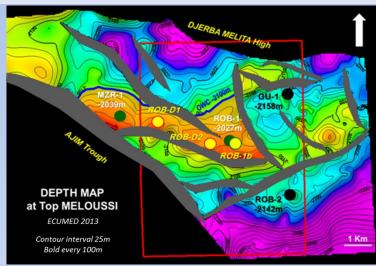
# **ROBBANA OPPORTUNITY**

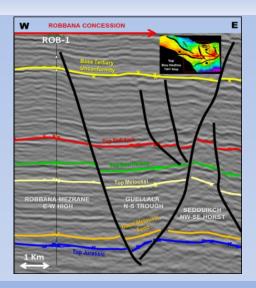


# **Geological Model**

### **Field description**

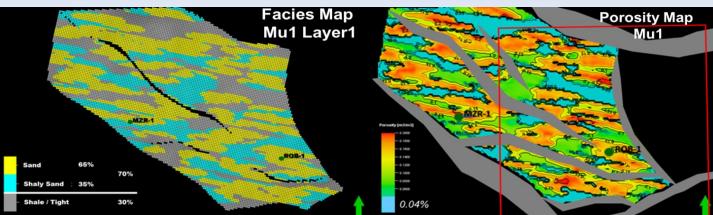
- CANDAX 100% ECUMED Operator
- End of Concession: 04/11/2034
- Area : 48 km2, onshore
- Discovered: 1988 by Marathon
- Peak Production: 500 bopd (1993)
- OIIP (2013 model): 11.5 MMbbs (Concession)
- 41° API oil
- Cumulative Production : 0.465 MMbbls since 1993
- Current Production : 25-30 bopd (1 well, Rob-1)





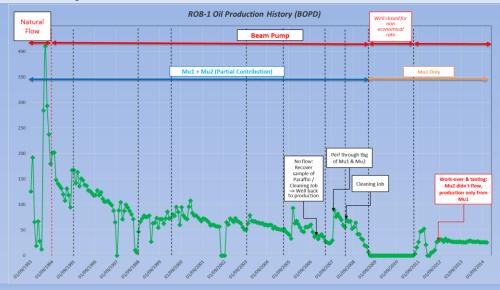
 Seismic cover: 93 2D line km on Concession with a typical line spacing of 1km.
 204 line km 2D in the vicinity were reprocessed by CGG in 2012 before reinterpretation in 2013.

- Structure: 3-way closure with fault closure to the south and west.
- Reservoir: Cretaceous Meloussi Sandstone (Mu1 & Mu2 sands)
  <u>Conceptual Geological Model (Petrel) built in 2013</u>



# **ROBBANA OPPORTUNITY**

### **Production History**



# **Field development Plan**

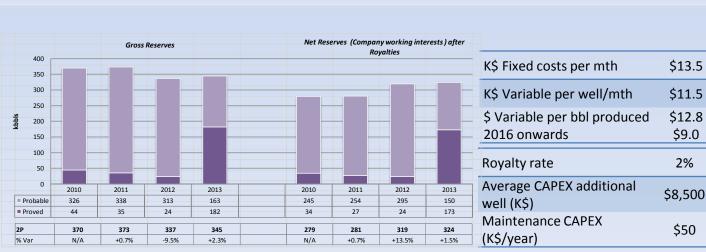
#### **Upper Meloussi Development Plan**

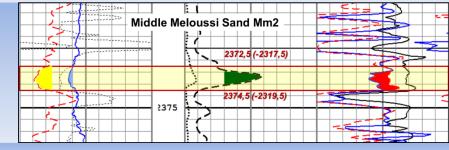
- 1 Development Well (ROB-1 replacement, ROB-1b)
- 2 Delineation Wells (ROB-D1 & D2)
- Expected Production : 420 bopd average in 2016
- Expected additional recovery : 760 Kbbls

#### **Upside: Middle Meloussi Sand**

- Recognized Hydrocarbonbearing but untested on Robbana-1 well
- Will be tested on ROB-1b
- Estimated OIIP : 5.5 MMbbls





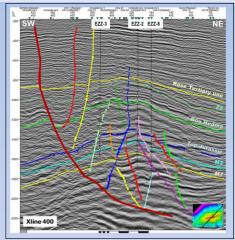


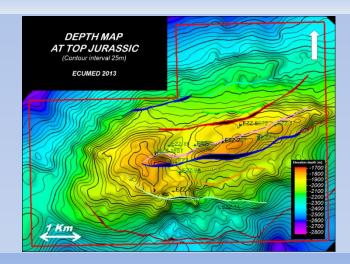
# **EZZAOUIA OPPORTUNITY**

# **Field description**

- CANDAX 45% ETAP 55%, MARETAP Operator (50/50 JV between ETAP and Ecumed)
- End of Concession: 31/12/2019 (extension/renewal requested and expected)
- Area: 40 km2, on shore
- Discovered: 1986 by Marathon
- Peak Production: Zebbag 27,300 bopd (1991), M'Rabtine 4160 bopd (1996)
- OIIP: 40 MMbbls (Zebbag), 97 MMbbls (M'Rabtine 2013), Cumulative Production : 18.5 MMbbls (Zebbag) + 12.5 MMbbls (M'Rabtine) since 1990
- Current Production: Zebbag 110 bopd (1 well, 95% bsw), M'Rabtine 300 bopd (3 wells), 2 M'Rabtine wells closed, waiting for well intervention (+/- 200 bopd)

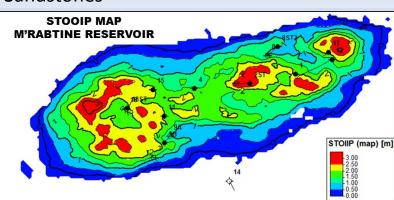
# **Geological Model**





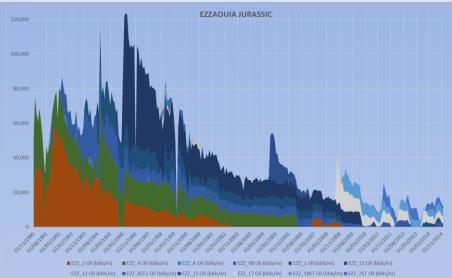
- Seismic cover:
  - 2D seismic, different vintages, from 1982 to 1987, with 1-2km line spacing
  - 3D vibro-seismic, 68 km2, acquired in 2001-2002 by CGG, reprocessed in 2005 by Paradigm; up-holes drilling and reprocessing by CGG in 2012 before re-interpretation in 2013.
- Structure: "roll-over" type anticlinal due to the reactivation of pre-existing triassic normal Faulting (Rift).
- Reservoirs: Cretaceous Zebbag Dolomite
  - Jurassic M'Rabtine Sandstones

New in-house Geological Model (Petrel) built for Jurassic reservoir in 2013-2014 based on 2013 seismic re-interpretation.



# **EZZAOUIA OPPORTUNITY**

### **Production History**



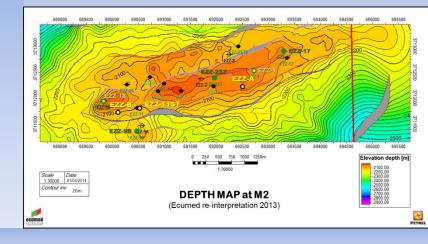
## Field development Plan

#### First stage

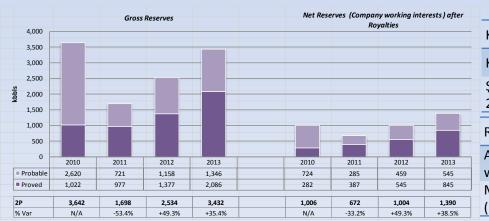
- 1 Sidetrack + 2 Development Wells (2016 & 2018)
- Expected Production: 1,075 bopd average in 2019
- 2 Step-Out Wells (2018)

#### Second stage

- Water Injection study
- Water injection Pilot



#### **Economics**



K\$ Fixed costs per mth	\$285
K\$ Variable per well/mth	\$30
\$ Variable per bbl produced 2016 onwards	\$7.9 \$5.5
Royalty rate	10%
Average CAPEX additional well (K\$)	\$8,500
Maintenance CAPEX (K\$/year)	\$500
(KŞ/year)	7 -

Gross figures

# **EL BIBANE OPPORTUNITY**

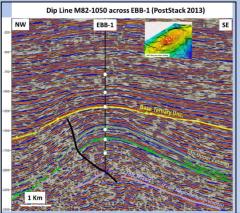
# **Field description**

- CANDAX 100% Ecumed Operator
- End of Concession: 31/12/2033
- Area: 228 km2, offshore (7-10m water depth)
- Discovered: 1982 by Marathon
- Peak Production: 4500 bopd (1998)
- Initial Contacts: -2153m GOC, -2206m OWC
- OIIP (2011): 28 MMbbls
- GIIP (2011): 22 Gscf

# **Geological Model**

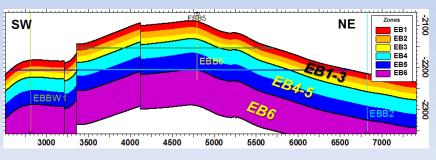
# 

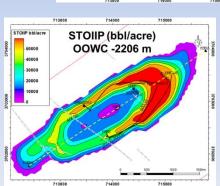
- •Cumulative Production: 4 MMbbls since 1998
- Current Production: 310-330 bcpd 12-
- 12.5 MMscfd (1 well, EBB-5)
- Current Injection: 11-11.5 MMscfd
- Gas Cycling Pilot underway (EBB-5 producer, EBB-4H injector)

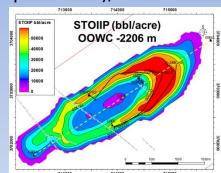


- Seismic cover: around 1,500 Km of 2D marine Seismic available on El Bibane area acquired in 1982, 1983 and 1984 by Prakla for Marathon. 905 line km were reprocessed in 2012 by CGG (369 km PSTM, 536 post-stack), before 2013 reinterpretation.
- Structure: NE-SW trending anticline with few faults.
- Reservoir: Cretaceous Middle Zebbag Dolomite.

# 2011 Beicip-Franlab Petrel/Eclipse Model

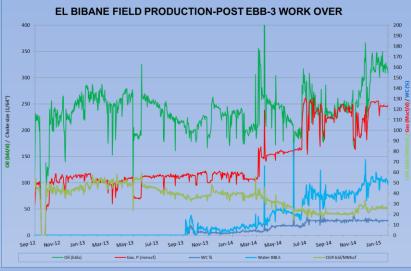






# **EL BIBANE OPPORTUNITY**

### **Production History**

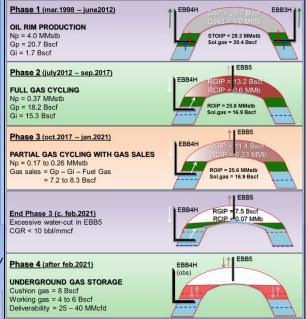


#### EL Bibane Nov 2014 Reservoir Model Update.

Prediction runs have been produced after updating the gas injection history (June 2012-April 2013) and the production history (May 2013 – Oct. 2014).



# Field development Plan



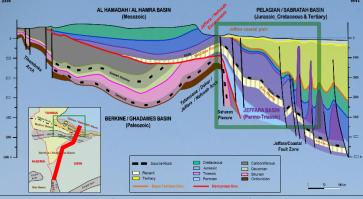
- Cumulative condensate recovery (1B) = 617 Mbbl from Jan 1, 2013 till May 1, 2024.
- Cumulative gas sales (1B) = 3.0
  MMcfd x 79 months = 7.2 Bscf
- Water breakthrough: Scenario 1B (65% GC) - May 2024.
- Condensate production is stable at 130-150 bopd over 2018-2024.

#### Net Reserves (Company working interests) after Gross Reserves Rovalties 3,000 2,500 2.000 bbls 1.500 1,000 500 0 2010 2011 2012 2013 2010 2011 2012 2013 Probable 1.056 1,228 1,526 616 1,539 1,364 1,605 651 1.400 106 226 1.314 104 219 Proved 1.265 898 2P 2,764 2,542 1.630 2.804 1,711 876 1,953 836 % Var N/A -1.4% -38.1% -48.8% N/A +30.1% -35.9% -48.7%

#### K\$ Fixed costs per mth \$140 K\$ Variable per well/mth \$18.5 \$ Variable per bbl produced \$6.0 2016 onwards \$5.0 2% Royalty rate **Compressor purchase** \$1,500 option 2015 (K\$) Maintenance CAPEX \$50 (K\$/year)

## **Economics**

# **PROSPECTIVE ASSETS: DEEP TRIASSIC, MADAGASCAR**



Schematic section through Gabes/Sabratah, Jeffara, Al Hamadah & Berkine/Ghadames Basins, Tunisia & Libya

#### **Deep Triassic**

 Two prospects were identified at Middle Triassic (Ras Hamia sandstones) on Ezzaouia and El Bibane concessions by former operators

• The unrisked prospective Gas resources (on Concessions) have been evaluated by Ryder Scott (2007) at 1,806 BCF and 1,417 BCF respectively (medium case)

• While the current study is inconclusive on the economic viability of the play, it suggests more information is required and a regional partnership may be the best way forward

#### **Madagascar**

Candax has transferred its working interests against 2 royalty agreements with Oyster Oil & Gas and East African Exploration Madagascar.

Agreements rely on the occurrence of various milestones with respect of the development of the block for respectively \$3.5 million and \$ 18.5 million.



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