Technical Report

Block 10
N. Tennin offshore
About The Block

Location: N. Tennin offshore block is a part of recent relinquished of NEMED concession previously operated by Shell. It is bounded from the south by East El Burullus offshore concession and located at a distance approximately 105 km to the north of the Mediterranean sea and nearest from EDDM and WDDM development leases.

Total Area: 5195 Km²

Water Depth: 1500 - 2300 m

Seismic Surveys

- 2D Seismic lines (approx. 3184 Km)
- 3D Seismic survey (approx. 7183 Km²)

Wells: Leil-1

Data review and Purchase form EGAS

Previous Concessionaire: Shell

Nearby Fields & Discoveries: EDDM, WDDM development leases & La 52, Ld 51 and Kg 45 gas discoveries
Block 10
N. Tennin offshore

<table>
<thead>
<tr>
<th>No.</th>
<th>Latitude (North)</th>
<th>Longitude (East)</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>33° 00' 00&quot;</td>
<td>31° 12' 00&quot;</td>
</tr>
<tr>
<td>2</td>
<td>32° 30' 00&quot;</td>
<td>31° 12' 00&quot;</td>
</tr>
<tr>
<td>3</td>
<td>32° 30' 00&quot;</td>
<td>30° 12' 00&quot;</td>
</tr>
<tr>
<td>4</td>
<td>33° 00' 00&quot;</td>
<td>30° 12' 00&quot;</td>
</tr>
</tbody>
</table>
## Block 10
### N. Tennin offshore

**Wells:**

<table>
<thead>
<tr>
<th>COMPANY</th>
<th>WELL</th>
<th>SPUD</th>
<th>COMPL</th>
<th>FTD</th>
<th>FM. @ TD</th>
<th>Lat. N.</th>
<th>Long. E.</th>
<th>Status</th>
</tr>
</thead>
</table>
### Block 10

N. Tennin offshore

### SEISMIC DATA

#### A) "2D" SEISMIC DATA (Segy Standard Format)

<table>
<thead>
<tr>
<th>Survey Name</th>
<th>Digital 2D Data (Km)</th>
<th>No. of Seismic lines</th>
</tr>
</thead>
<tbody>
<tr>
<td>bp NDO</td>
<td>216</td>
<td>5</td>
</tr>
<tr>
<td>S99DW</td>
<td>1523</td>
<td>28</td>
</tr>
<tr>
<td>S2001DW</td>
<td>607</td>
<td>24</td>
</tr>
<tr>
<td>S2004DW</td>
<td>601</td>
<td>28</td>
</tr>
<tr>
<td>S2008DW</td>
<td>86</td>
<td>2</td>
</tr>
<tr>
<td>TGS</td>
<td>151</td>
<td>2</td>
</tr>
<tr>
<td><strong>TOTAL</strong></td>
<td><strong>3184</strong></td>
<td><strong>89</strong></td>
</tr>
</tbody>
</table>

#### B) "3D" SEISMIC DATA (Segy Standard Format)

<table>
<thead>
<tr>
<th>Survey Name</th>
<th>Total Selected Sq. Km</th>
<th>Remarks</th>
</tr>
</thead>
<tbody>
<tr>
<td>Nemed 1999</td>
<td>7183 Km²</td>
<td>Shell</td>
</tr>
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</table>
Block 10
N. Tennin offshore
<table>
<thead>
<tr>
<th>Block No.</th>
<th>Block Name</th>
<th>Area (Km²)</th>
<th>2D Total Line Km</th>
<th>Drilled Wells</th>
<th>Price US$</th>
<th>3D Survey Km² (Nemed-1999)</th>
<th>Price US$</th>
</tr>
</thead>
<tbody>
<tr>
<td>10</td>
<td>N. Tennin offshore</td>
<td>5195</td>
<td>3184</td>
<td>1</td>
<td>127620</td>
<td>7183</td>
<td>3950750</td>
</tr>
</tbody>
</table>

- Data Package for each block in digital format will be available at EGAS premises at prices as shown in the above table.

- Technical reports for all wells are available for purchase at: ($1100 for hard copy and $1200 for digital format per well)

- Final geological reports for all wells are available for purchase at: ($1500 for hard copy and $1700 for digital format per well)

- Data review will be available at EGAS premises using Geographix Software (Seisvision, Prizm & Geoatlas) at cost:

  10% of total price of the principal data package (2D and well logs) with a minimum of $2000/block

  10% of total price of request 3D seismic survey

- In case of data purchase after review, review fees will be deducted from the total purchase price
**Pliocene Play Concept:**
This play was successfully explored in NEMED concession where gas bearing sand in slope channel complex were found to the west of this block.

**Source:**
Basal Pliocene shale provides excellent source rock for the biogenic gas.

**Reservoir:**
The reservoir rocks are represented by turbidite channel sand with high porosity and permeability.

**Trapping:**
Structure / Stratigraphic traps provide the main trapping style.

**Sealing:**
The thick interbedded shales act as good sealing capacity for this play.

**Charging:**
Charging carried out through the interbedded and intraformational Shales which act as good source rocks for the biogenic gas.
**PROSPECTIVITY**

**Messinian Play Concept:**
This play is represented by Messinian sand (Abu Madi channel) which deposited in deltaic / shallow marine environment just after the end of the Messinian salt crisis. This play was successfully drilled and explored as gas bearing sand in the Nemed concession (La52 & Ld51 Wells) offset to this block.

**Source:**
The terrestrial and marine deposits developed during Oligocene-Miocene time are considered the main source rocks.

**Reservoir:**
The reservoir sand was deposited in channel / Levee system which significantly encountered below and in between the Rosetta anhydrites as hydrocarbon bearing sand as in La52 and Ld51 wells drilled by Shell in NEMED concession.

**Trapping:**
The traps are mainly structural traps with partial stratigraphic.

**Sealing:**
Rosetta anhydrite act as an efficient seal.

**Charging:**
Charging carried out from possible Oligocene and Lower Miocene deposits.