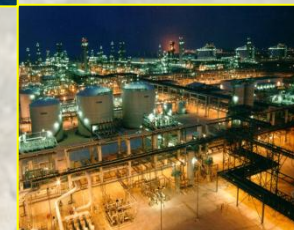


# Technical Report

## Block 9 Shorouk offshore





# Block 9

## Shorouk offshore

### About The Block

**Location:** Shorouk offshore block is a part of recent relinquished of NEMED concession previously operated by Shell. It is bounded from the north by Egypt's economic water border, from the south by North Hap'y offshore concession and located at a distance approximately 170 km to the north of the Mediterranean shore line and nearest from EDDM development lease.

**Total Area :** 3765 Km<sup>2</sup>

**Water Depth:** 1400 - 1800 m

### Seismic Surveys

: 2D Seismic lines (approx. 1862 Km)

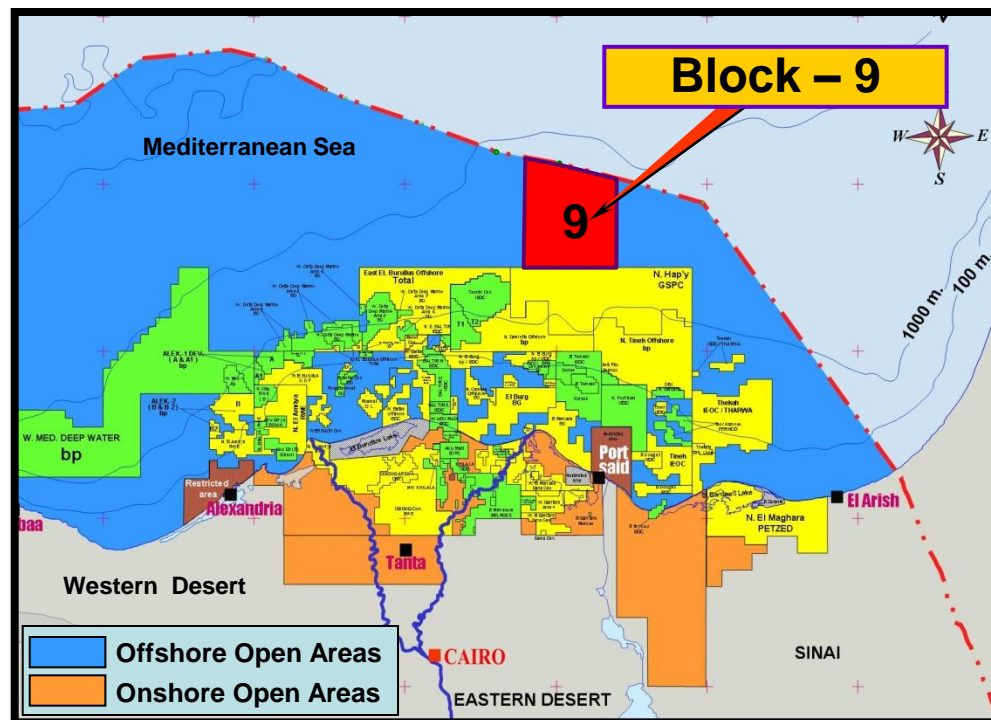
: 3D Seismic Survey (approx. 7183 Km<sup>2</sup>)

**Wells:** Kg 70-1

**Data review and Purchase form EGAS**

**Previous Concessionaire :** Shell

**Nearby Fields & Discoveries :** EDDM development lease & La 52, Ld 51 and Kg 45 gas discoveries

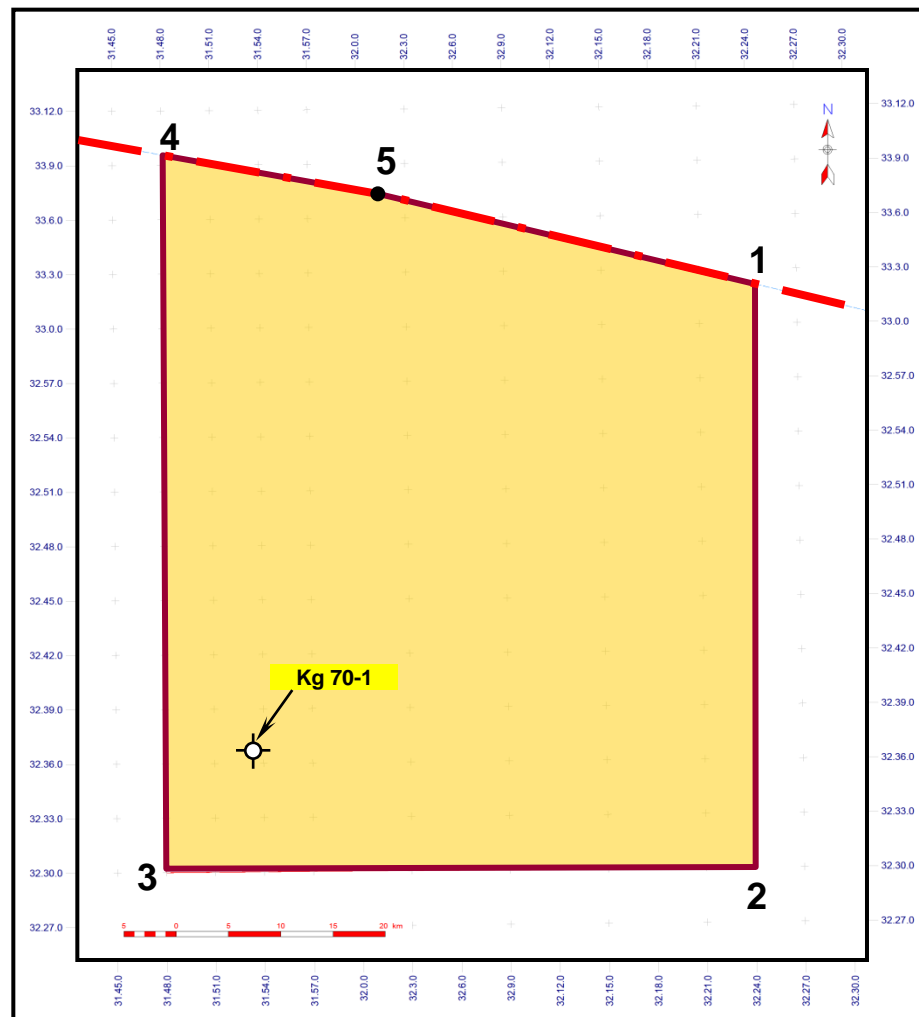




# Block 9

## Shorouk offshore

Block- 9						
Shorouk offshore						
No.	Latitude ( North )			Longitude ( East )		
1	33°	02'	10.16"	32°	24'	00"
2	32°	30'	00"	32°	24'	00"
3	32°	30'	00"	31°	48'	00"
4	33°	09'	33.10"	31°	48'	00"
5	33°	07'	20"	32°	01'	20"





# ***Block 9***

## ***Shorouk offshore***

### **Wells:**

COMPANY	WELL	SPUD	COMPL	FTD	FM. @ TD	Lat. N.	Long. E.	Status
Shell	Kg 70-1	15/9/2007	20/12/2007	6014M	Tinah (Oligocene)	32° 39' 53.76" N	31° 55' 50.72" E	P & A



# ***Block 9***

## ***Shorouk offshore***

### **SEISMIC DATA**

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

<b>Survey Name</b>	<b>Digital 2D Data (Km)</b>	<b>No. of Seismic lines</b>
<b>bp NDO</b>	<b>255</b>	<b>6</b>
<b>S99DW</b>	<b>841</b>	<b>16</b>
<b>S2001DW</b>	<b>591</b>	<b>16</b>
<b>S2008DW</b>	<b>61</b>	<b>1</b>
<b>TGS</b>	<b>114</b>	<b>2</b>
<b>TOTAL</b>	<b>1862</b>	<b>41</b>

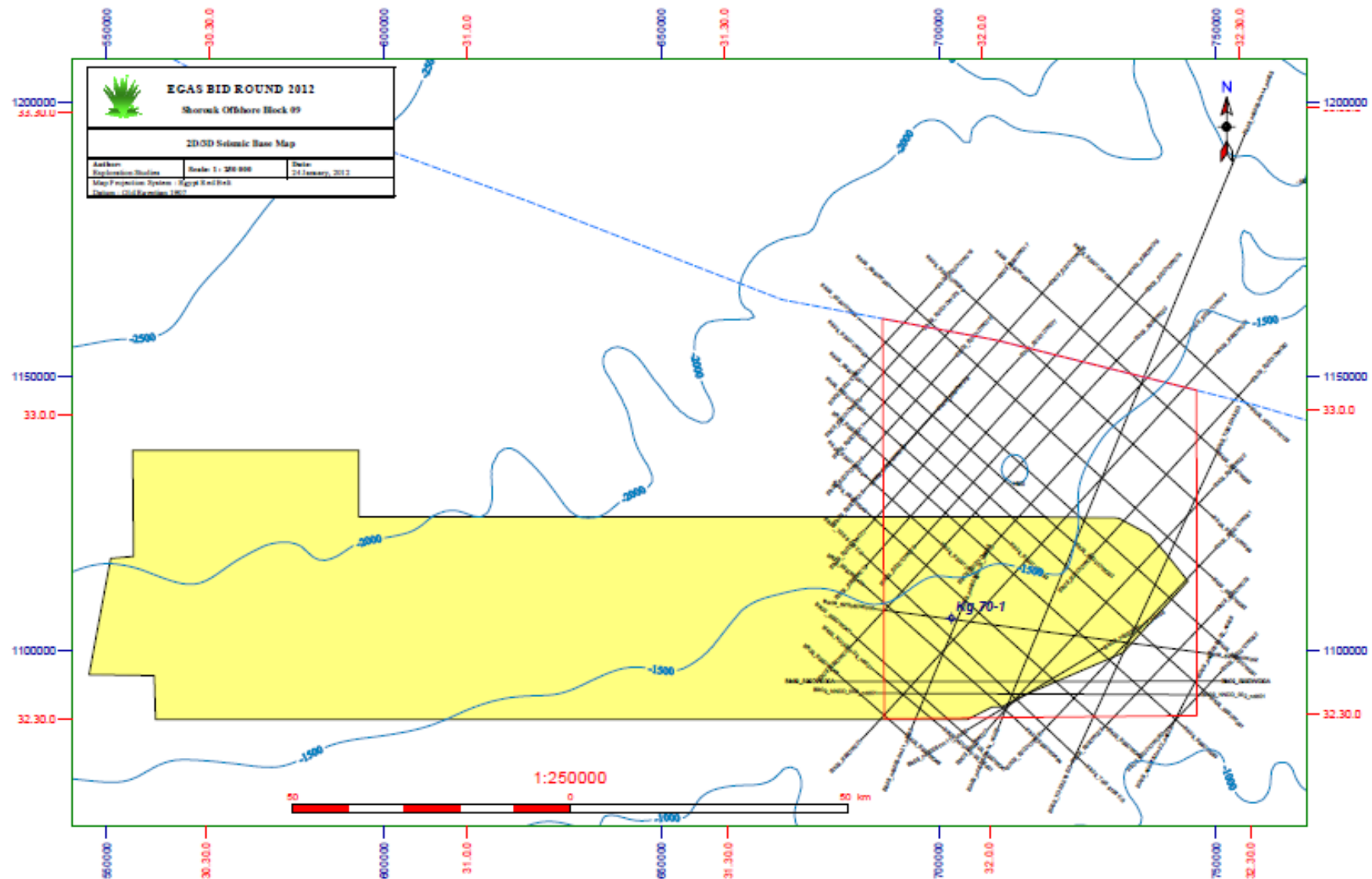
#### **B) "3D" SEISMIC DATA (Segy Standard Format)**

<b>Survey Name</b>	<b>Total Selected Sq. Km</b>	<b>Remarks</b>
<b>Nemed 1999</b>	<b>7183 Km<sup>2</sup></b>	<b>Shell</b>



# Block 9

## Shorouk offshore





# ***Block 9***

## ***Shorouk offshore***

PRICE LIST							
Block No.	Block Name	Area (Km <sup>2</sup> )	Principal Data Package			3D Surveys	
			2D Total Line Km	Drilled Wells	Price US\$	3D Survey Km <sup>2</sup>	Price US\$
9	Shorouk offshore	3765	1862	1	78880	7183 (Nemed-1999)	3950750

- 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



## PROSPECTIVITY

### 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:**

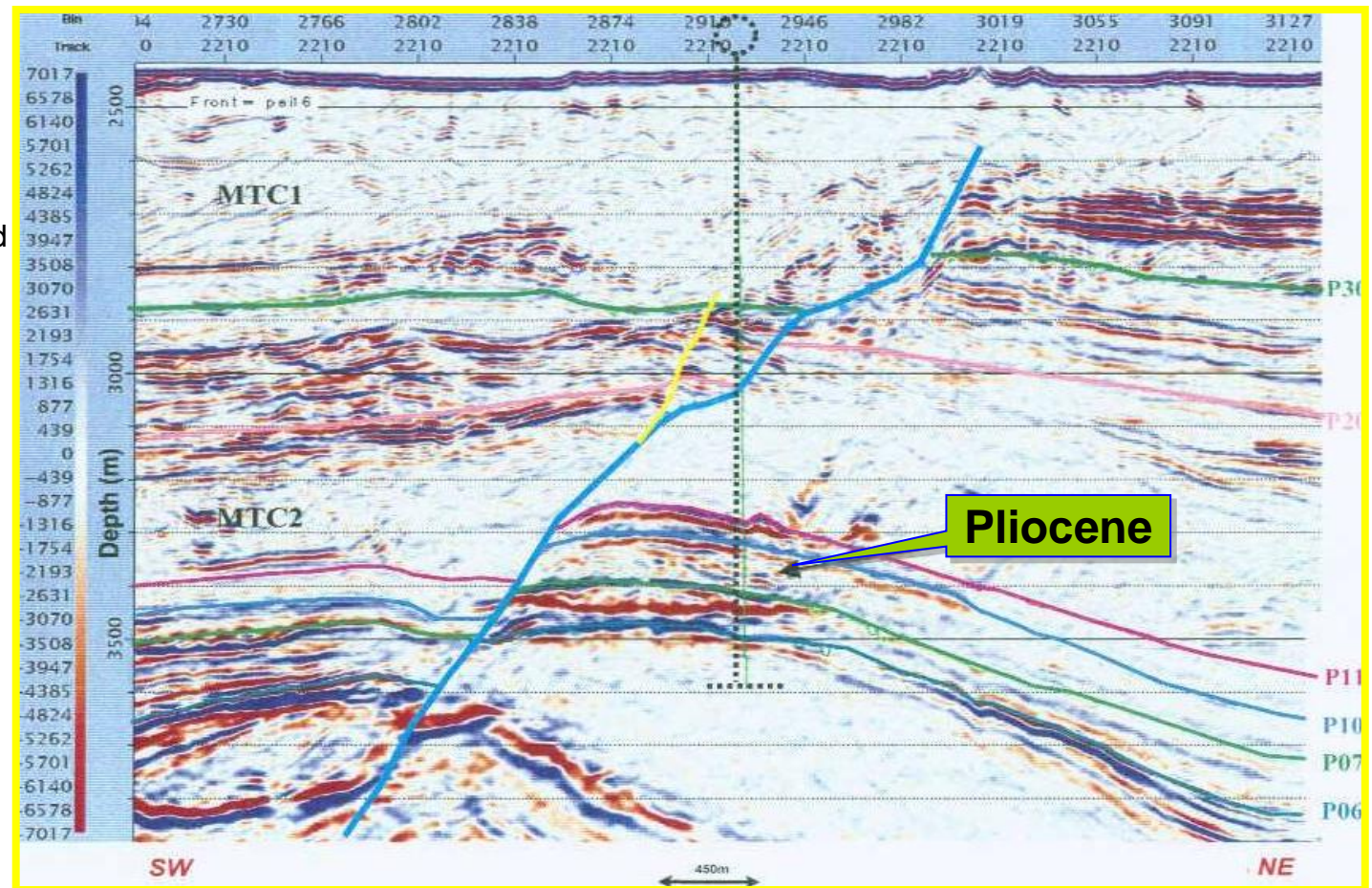
Structure / Stratigraphic traps provide the main trapping style.

### 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:

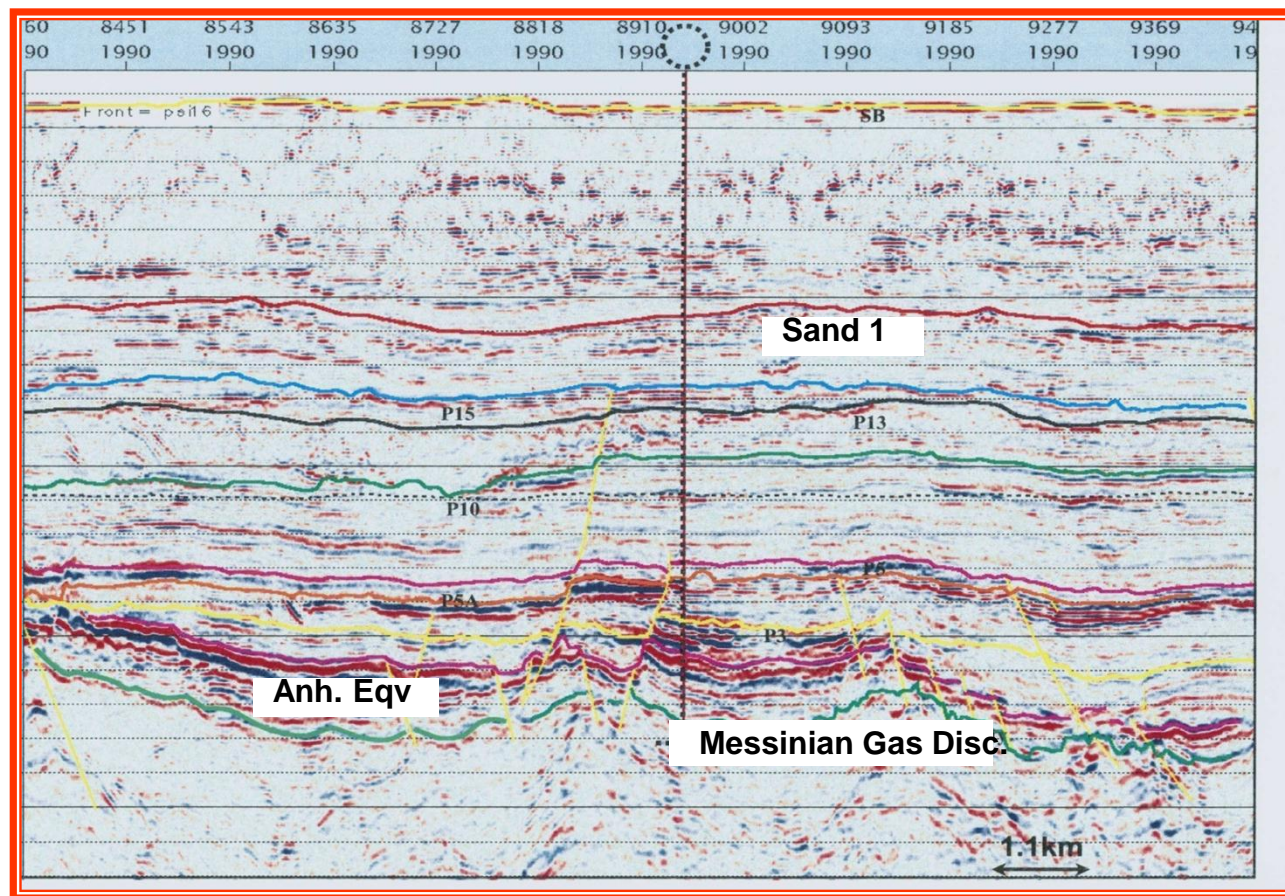
The traps are mainly structural traps with partial stratigraphic.

## Sealing:

Rosetta anhydrite act as an efficient seal.

## Charging:

Charging carried out from possible Oligocene and Lower Miocene deposits.





# PROSPECTIVITY

## Oligocene Play Concept :

The Oligocene channel systems are very promising as hydrocarbon potential in the Mediterranean province where it is successes as oil bearing sand as in Thineh-1 well and gas bearing sand as in WMDW , PFMD-1 and Satis-1 wells.

## Source :

Oligocene Type III source rocks expected to be present and mature with good deep charge focus as indicated from base Oligocene map

## Reservoir:

Oligocene sand was deposited in a series of turbidities channel sand with high reservoir quality and easily recognized on the seismic sections by strong amplitude anomaly.

## Trapping:

Most of the Oligocene discoveries are trapped in the anticlinal structure form four-way dip closure.

## Sealing:

Sealing capacity is confirmed by thick section of shale deposits.

## Charging:

Charging is carried out directly from the underlying source rocks and by deep-seated faults.

