Potential Source and Seal in Cambodia

Department of Petroleum Exploration
Prospective sedimentary basins of Cambodia

Potential Source Rock

Capacity Building Needs
Based on structural and tectonic features, a number of potential oil and gas bearing basin have been identified into 8 sedimentary basins capable of containing petroleum that are either wholly or partially located in Cambodia.

1. Khmer Basin
2. Kompong Som Basin
3. Mekong Basin
4. Chhung Basin
5. Preah Basin
6. Tonle Sap Basin
7. Khorat Basin
Onshore Area - Potential

Moeco Study Gravity Interpretation
Prospective sedimentary basins of Cambodia

- The Tonle Sap Basin is the largest Quaternary basin located in northwestern Cambodia, which cover the area about 48,000km².

- The Mekong Basin located in the southeast of the Tonle Sap Basin, and extends toward the offshore Vietnam.

- Kompong Som Basin

- Onshore of Cambodia contains a number of Quaternary and Mesozoic sedimentary basins, which promise the possibility of substantial reserves of Natural Gas and modest reserves of Oil.
Potential Source Rock

A. Main source are believed to comprise:
- Kuchinarai Gr, Triassic organic rich lacustrine shales
- Late Carboniferous/Lower Permian Si That Fm shallow marine organic shales, carbonates and coals.

B. Both source rock intervals are present in Phu Quoc, Kampong Som Basins, Korat Basin, as well as onshore Vietnam
## Outcrop study of Cambodia

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Capacity Building Needs

- Detail Geological Survey
- Mapping
Potential Triassic and Permian source rocks will be mature for oil and gas over large part of the basinal areas.

✓ Potential Source:
  • Oil: Late Triassic organic rich lacustrine shales.
  • Gas: Upper Carboniferous – Lower Permian marine shales.