# Ministry of Petroleum and Mineral Resources



**Federal Republic of Somalia** 

Date: 17 Oct. 2019 NDR 2019, Utrecht The Netherlands



# Somalia



Land Area Water Area Total Area Population Pop. Density 639, 548 km<sup>2</sup> 835, 332 km<sup>2</sup> 1,474, 880km<sup>2</sup> 14,740000 17.24/km<sup>2</sup>

**Government Type:** Federal Parliamentary Republic

GDP (PPP) GDP Per Capita Currency \$ 7.4 Billion\$ 500.00Shilling (Somali Sh.)

### Status of Petroleum development in Somalia



- •Background
- •Legal & Regulatory Framework
- •Somalia Data
- •Challenges

### Petroleum Exploration History



- Hydrocarbon Exploration started in Somalia during early 1948 up to 1967 (Sinclair);
- During the seventies up to 1991 second phase of hydrocarbon exploration was conducted by the following Majors:
- a. Chevron, Conoco/Philip ENI, Caltex, Arco, Total Shell, Exxon Mobil and Amoco



Fig: 3 Somali Sedimentary Basins with Maritime Boundaries

- There are six major sedimentary onshore basins; some have bigger offshore extension:
- 1- Guban (31,870 sq. Km)
- 2- Darror\_Nugal (167,838 sq. Km)
- 3- Mudug (169,651 sq. Km)
- 4- Qoryooley (27,000 sq. Km)
- 5- Luuq-Mandera (89,000 sq. Km)
- 6- Jubba-Lamu (54,000 sq. Km)

#### Note:

There are additional offshore areas associated with each onshore basin



### Legal and Regulatory Framework



Petroleum Law, Petroleum Management and Revenue Sharing Agreement were passed by the parliament;
Production Sharing Agreement (PSA) Model of Somalia has been finalized and ready to use.

## Somalia Exploration Data



Legacy Seismic Data (1950 – 2012)
Legacy Well Data (1950 – 2012)
New Acquired Data Between 2014-1016



In 2014, over 20,500 km lines of 2D seismic data have been acquired across 185,000 km2 Offshore

## Spectrum ASA: 2D Seism offshore Data

Spectrum acquired approximately 20,500 km of long offset 2D seismic data offshore central & southern Somalia (complementing 20,000 km of existing seismic data acquired in 2014).



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# Free Air gravity anomaly map showing the three offshore basins:







Interpreted offshore data by spectrum shows;

- Very good oil source rocks
- Existence of good Petroleum working system
- Estimate of 30 Bbbl in offshore Somalia
- Somalia's First Bid round was launched.

# **PDM Challenges**



### Establishing PDM system

 Giving services such as acquiring/receiving, quality checking, processing, uploading, validating, storing, using, archiving and disposal.

### Petroleum Data Governance

- Creating strategy, policy, roles and responsibilities, process and procedures, standards to enable effective data management
- Data architecture system and data management integration
  - Integration of Databases, catalogue, Data model, workstations and software tools for data acquisition, processing to interpretations purpose.

## GIS



- Understanding the GIS and relevant hardware and software applications.
- Establishing GIS database and ArcGIS system
- Preparing integration of Somalia topographical maps, Somalia Blocks, legacy data and cultural data.
- Using GIS how to integrate the seismic data, geological maps, well logs and HSE issues and
- Use GIS to integrate remote sensing, geophysical, geochemical and geological data and map.
- Data lifecycle processing, interpretation and Architecture.

### **APDM Membership**

- \* Experience sharing with APDM members
- \* Exchanged visit and study tour
- \* Collaboration in Data Management activities
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# **THANK YOU**