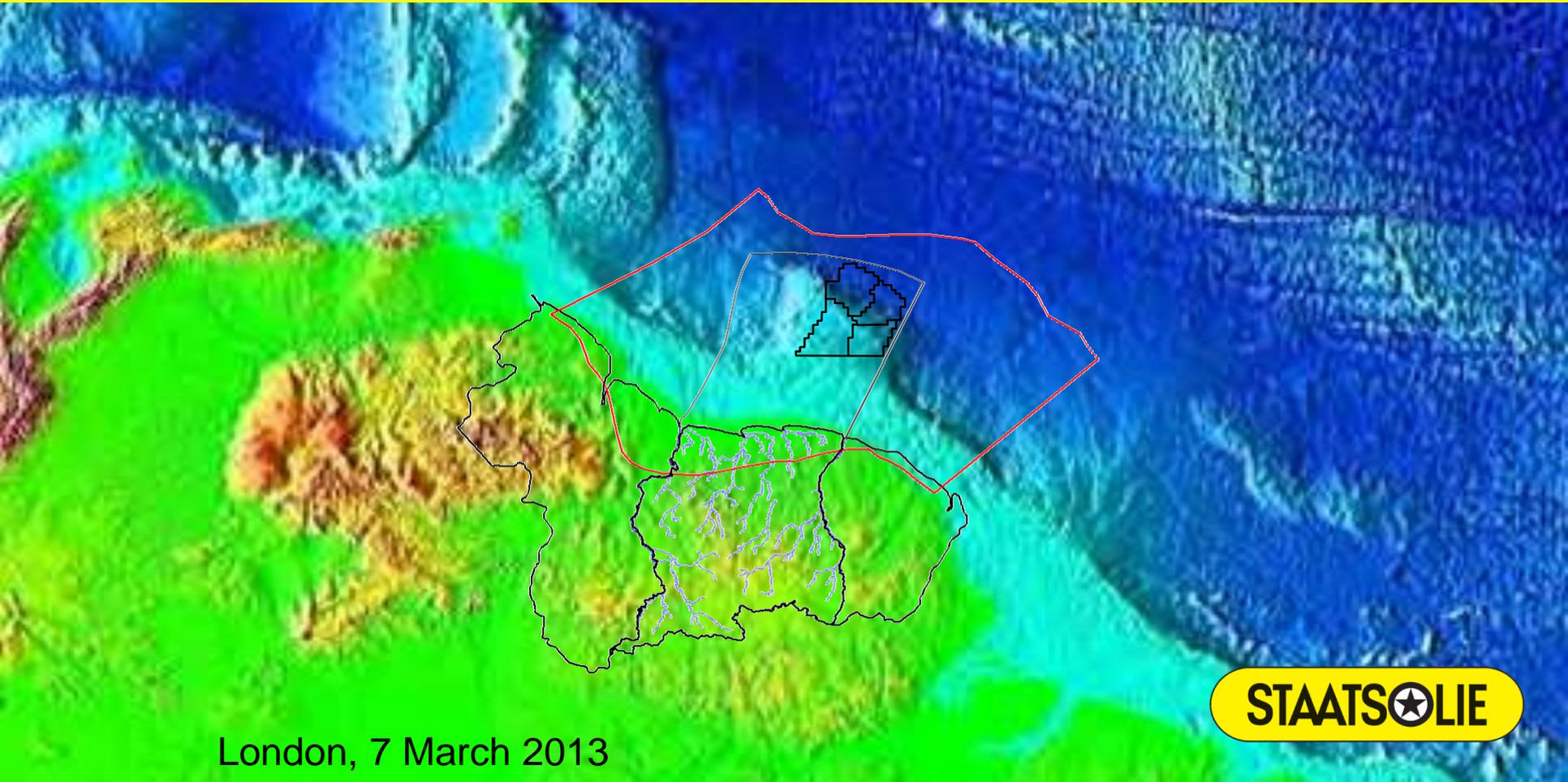


# Suriname

## International competitive Bid Round 2013

### The Demerara Plateau An Exploration Opportunity Offshore Suriname



**STAATS**★**LIE**

London, 7 March 2013

# Overview Staatsolie

## History

Founded in 1980

Shareholder Republic of Suriname

## Functions

### Commercial Entity:

Independent, vertically integrated Oil Company

### Regulator:

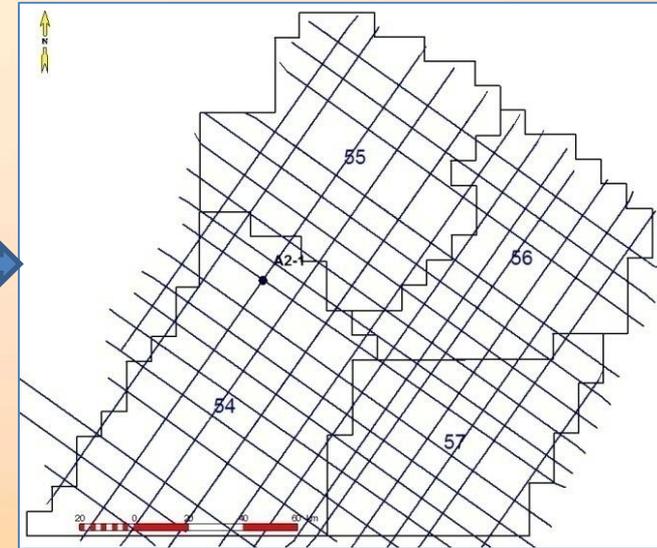
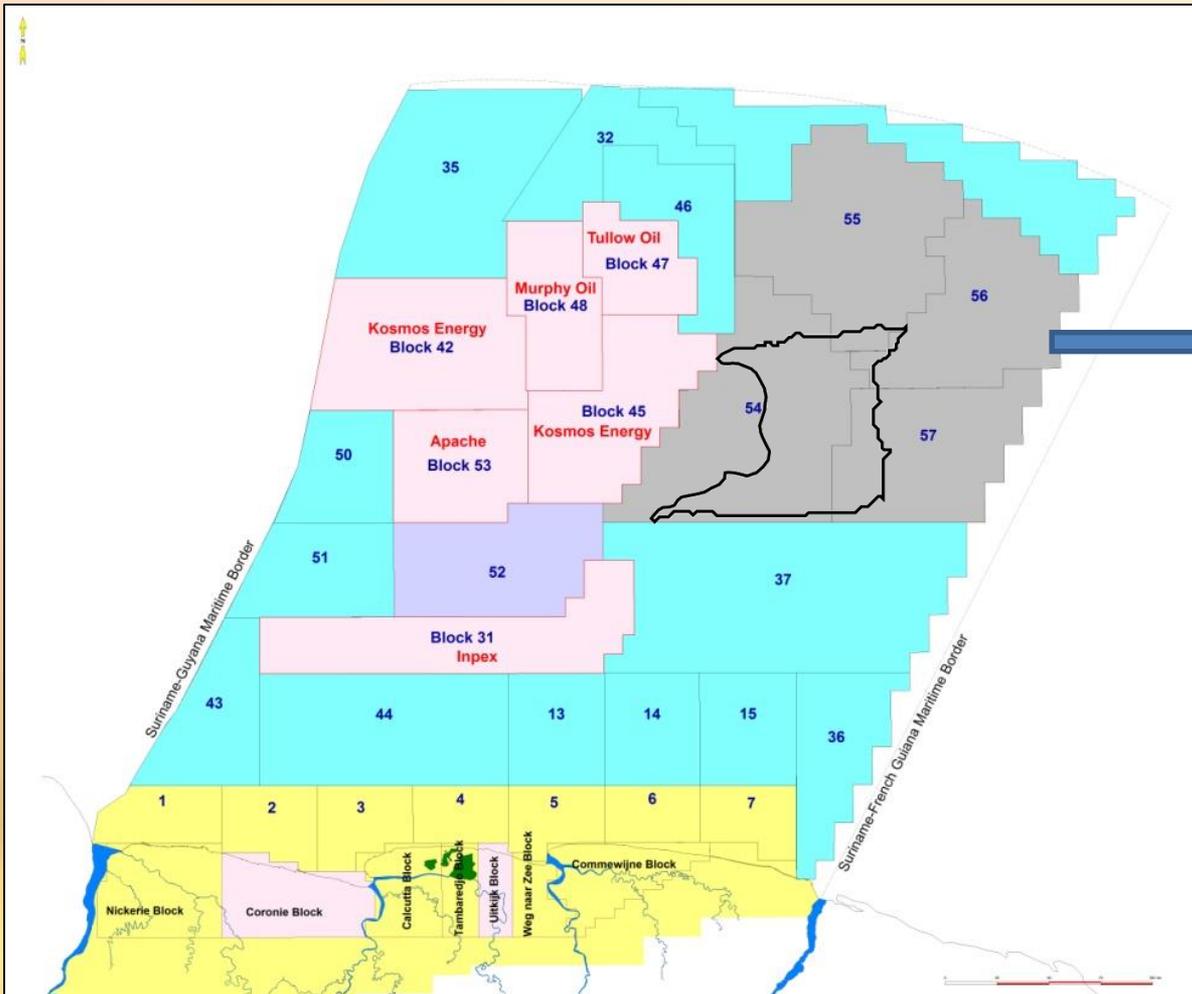
Policy, promotion, contracting and supervision of petroleum activities

## Core Activities

Exploration	180,000km <sup>2</sup>
Crude production	16,000 bopd
Refining	7,200 bpsd
Marketing (bunkering) bbls/year	720,000
Thermal Power Generation	28MW

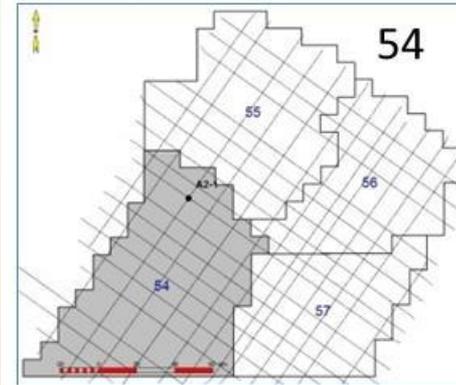
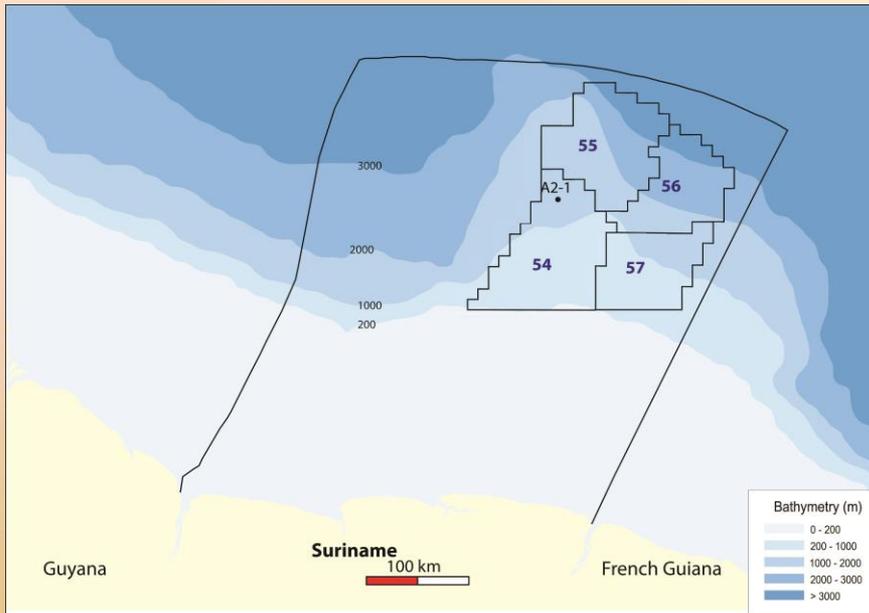


# The Demerara Blocks

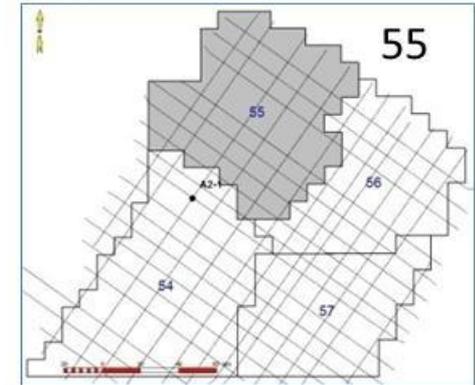


Demerara Acreage – New Data Coverage

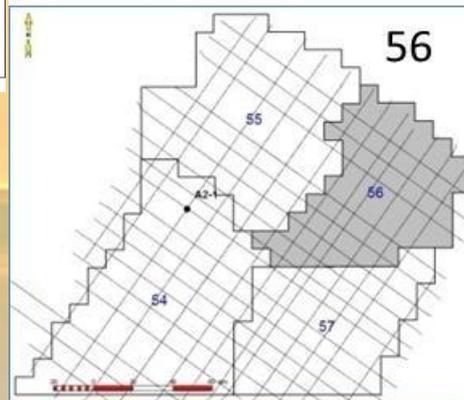
# Blocks 54, 55, 56 and 57 on Offer



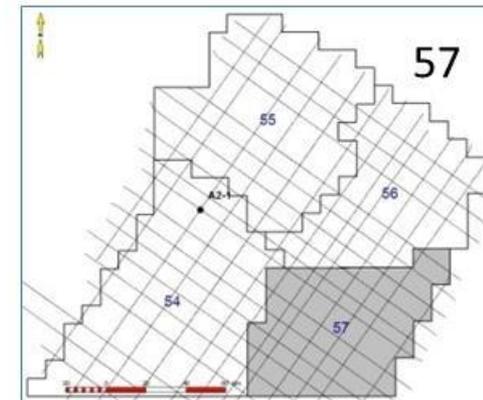
Surface Area: 8824 km<sup>2</sup>  
Seismic Coverage: 1350 km  
Well: A2-1



Surface Area: 7765 km<sup>2</sup>  
Seismic Coverage: 1073 km



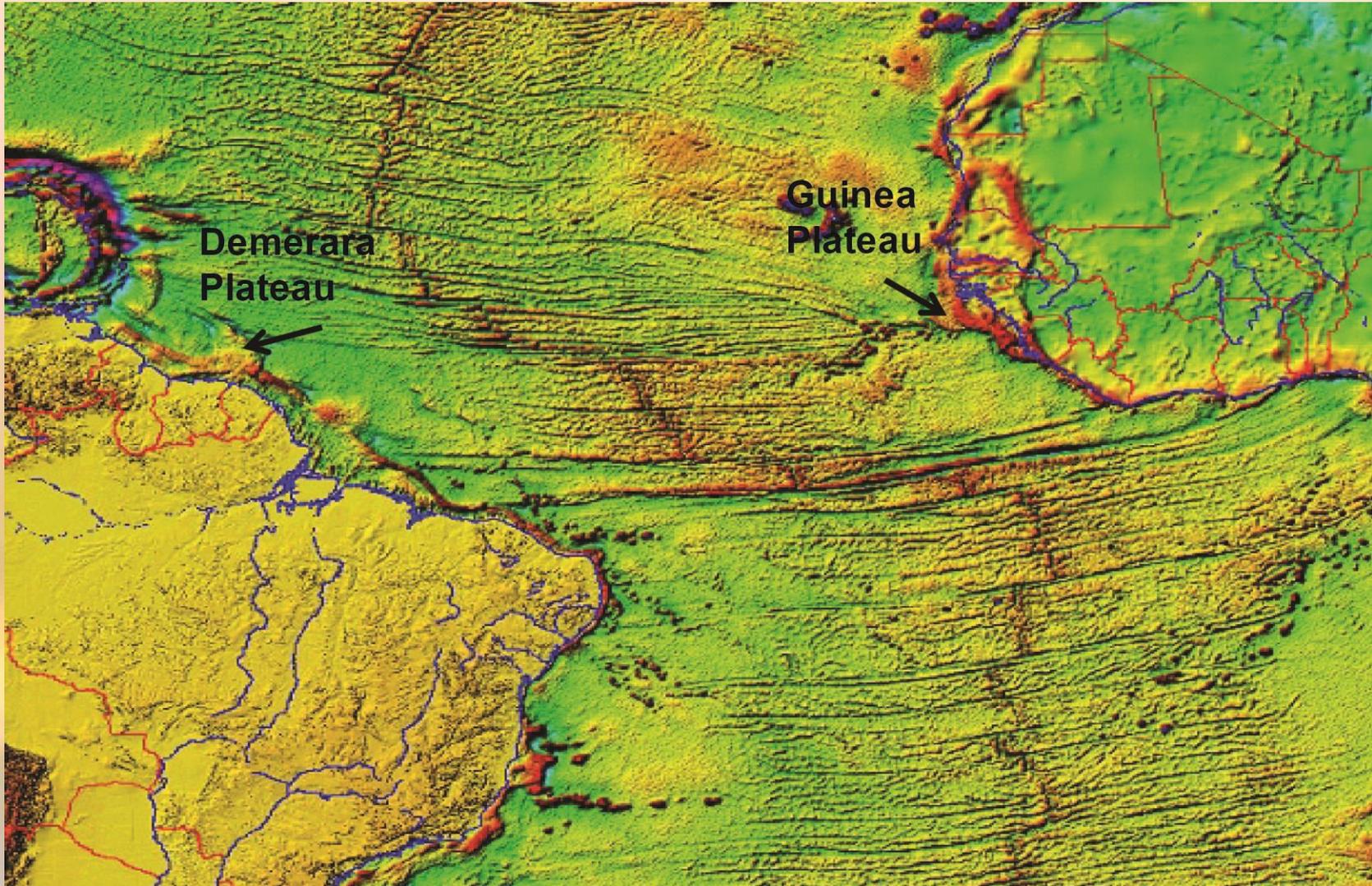
Surface Area: 5704 km<sup>2</sup>  
Seismic Coverage: 938 km



Surface Area: 5527 km<sup>2</sup>  
Seismic Coverage: 1018 km

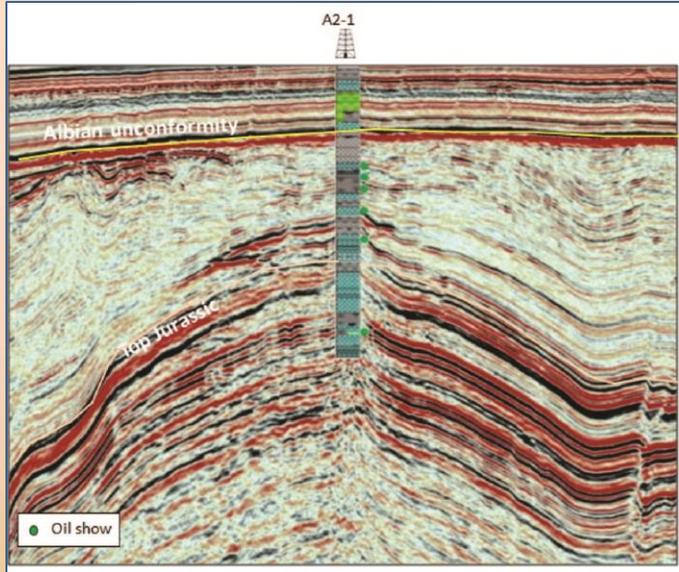
# The Conjugate Counterpart to the Guinea Plateau

Mini Basins, Anticlines, Fault Related Structure





# Source Rock/ Seal potential Insights

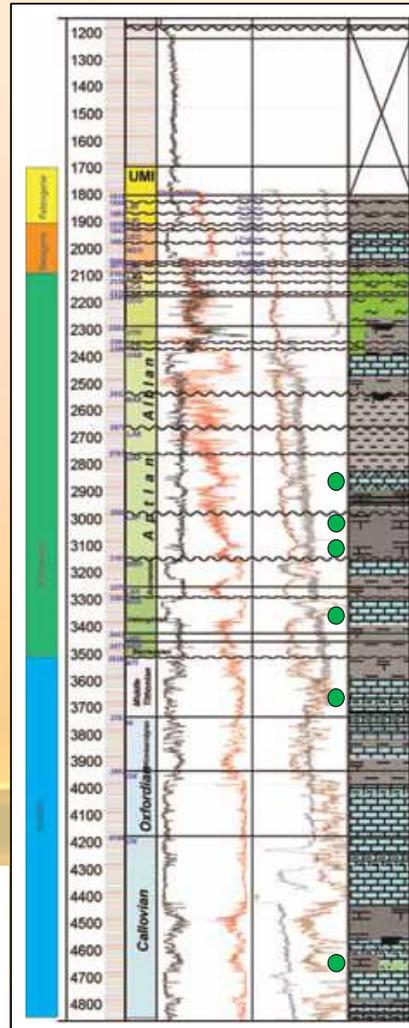
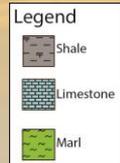


## Source Rocks penetrated in the A2-1 well

Cenomanian-Turonian TOC : 4.4 – 7%

Albian – TOC: No TOC reported

Callovian – TOC: 1 - 2% ; 0.6% VR



A2-1 Well Logs and Lithology

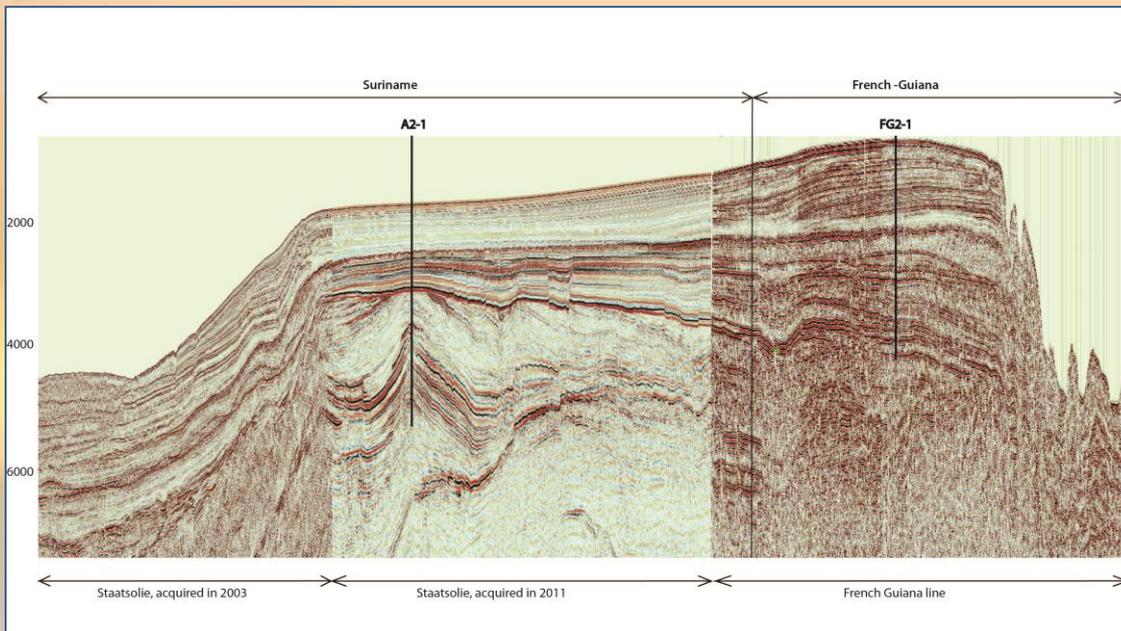
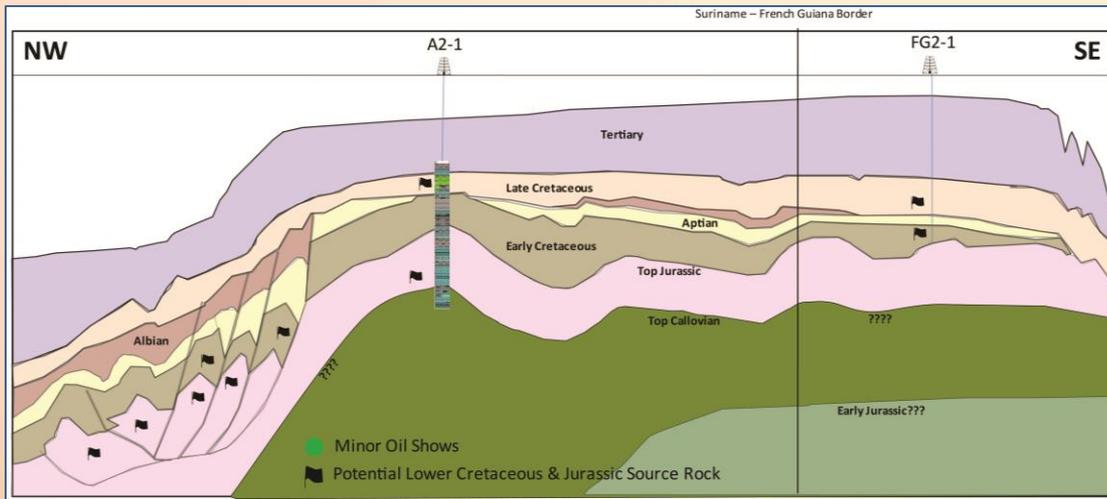
## Seal Presence / Integrity

- Thick columns of shale (reaching up to 300 meters) encountered in the A2-1 well
- Oil shows not encountered above the Albian Unconformity
- Shale columns appear to be spatially extensive on seismic
- Good seal potential expected for the Demerara Plateau

## Petroleum System

- A2-1 well : 1 - 2% TOC; 0.6% VR (limited data)
- Restricted environment before and during Jurassic
- Lacustrine/hypersaline oil typed in onshore
- Possibly supports a significant petroleum system

# Reservoir Potential Insights



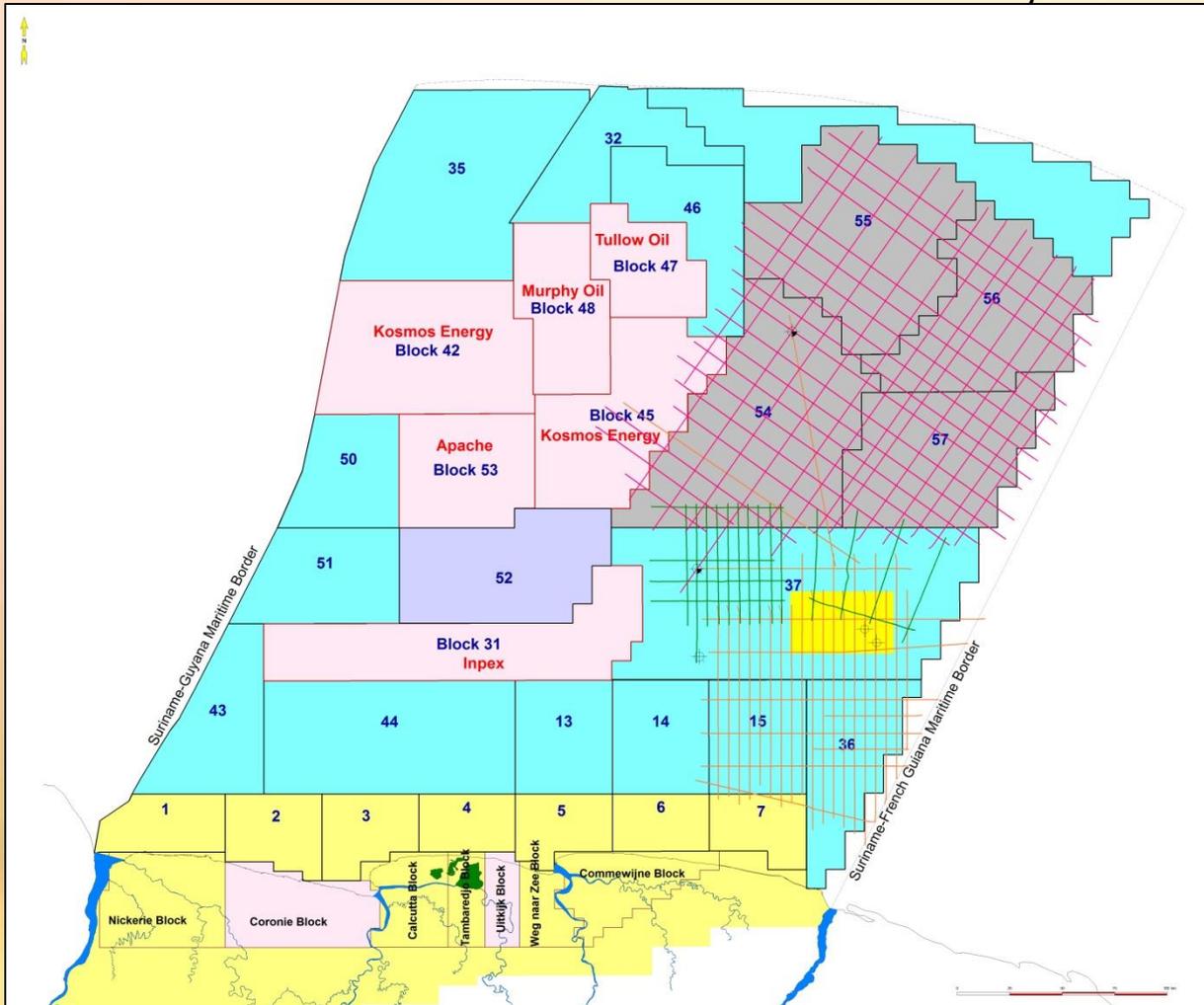
## Reservoir Presence

- Aptian reservoir sands encountered in FG2-1
- Aptian reservoir sands extend into the Demerara Plateau but eroded at A2-1 well
- Aptian reservoir sands are expected in the mini basins
- All oil shows in the A2-1 well are below the Albian unconformity
- Shale on the Albian unconformity is considered to be seal for possible hydrocarbons of the Aptian reservoir sands



# Extensive Data Package 2013

Lease USD 75,000



- **2D Seismic:** Approx.  
4,952 km on the Demerara Plateau,  
acquired in 2011

Reprocessed Seismic  
Velocity Data

- **3D Seismic:** 1500 km  
in Block 37

- **Well Data:** 5 Offshore Wells  
(A2-1, GLO-1, MO-1, CRC-1, ARC-1)

Well Logs

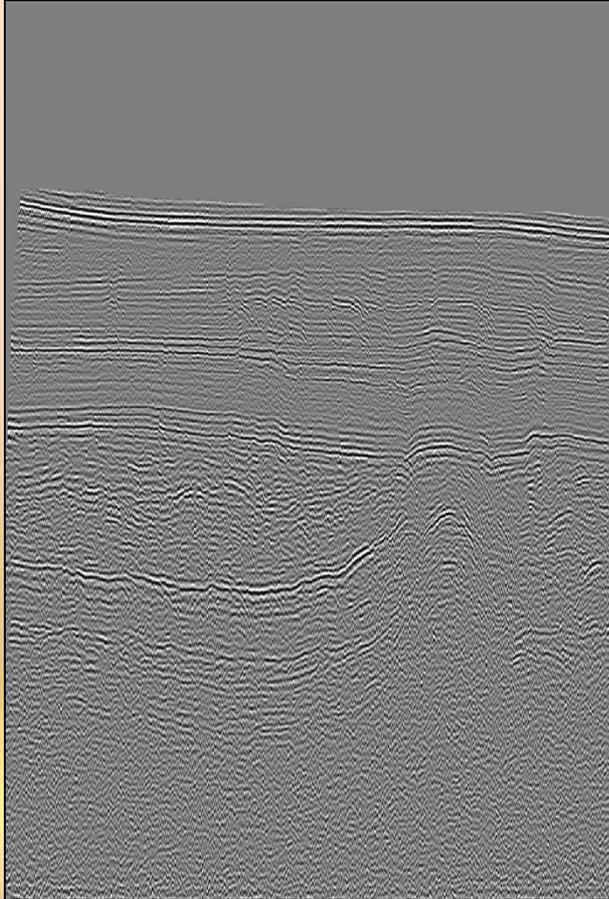
- **Reports:** Acquisition, Processing,  
Gravity and Magnetometer

**Virtual Data room:**

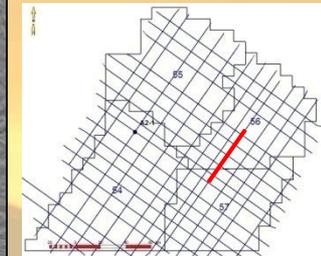
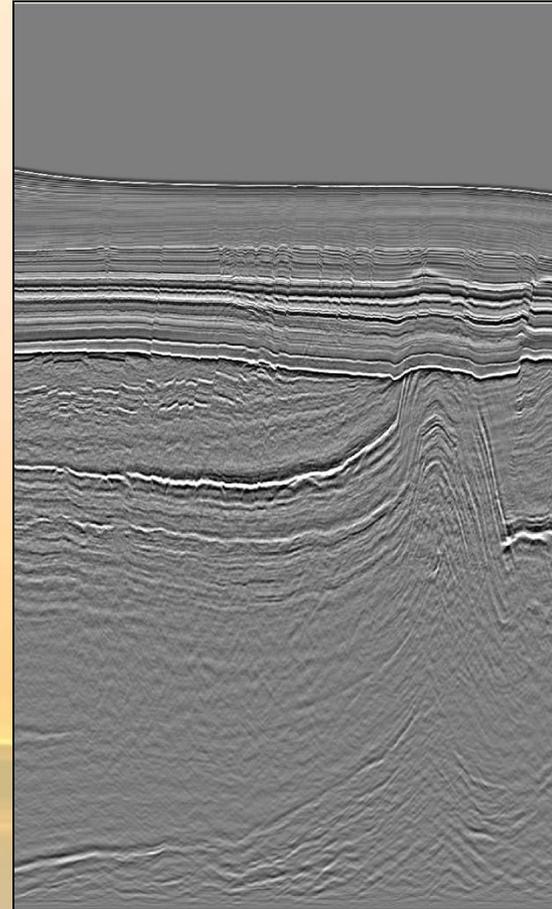
**<http://staatssuriname3111.ezdataroom.com>**

# Data Quality

## Historical Data



## CGGVeritas BroadSeis®



# Non-Biddable Items

- Purchase Data over Awarded Block
  - USD 500,000 – 600,000
- Relinquishment at the beginning of each phase of the Exploration Period
  - 20 – 25% depending on the size of the block
- Royalty and Income Tax Rate
  - 6.25% & 36%
- Cost Oil Ceiling 75%
- Staatsolie Participation in Development & Production
  - 20%

# Two Biddable Items

Maximum of two (2) Blocks per bidder

## Minimum Work Program Phase 1 Exploration Period

- Phase 1: Four years
- At least 3,000km 2D seismic or 1,000 sq. Km 3D seismic . In case offer consists of 2D and 3D, the minimum is 750 sq.km

## Profit Oil Share

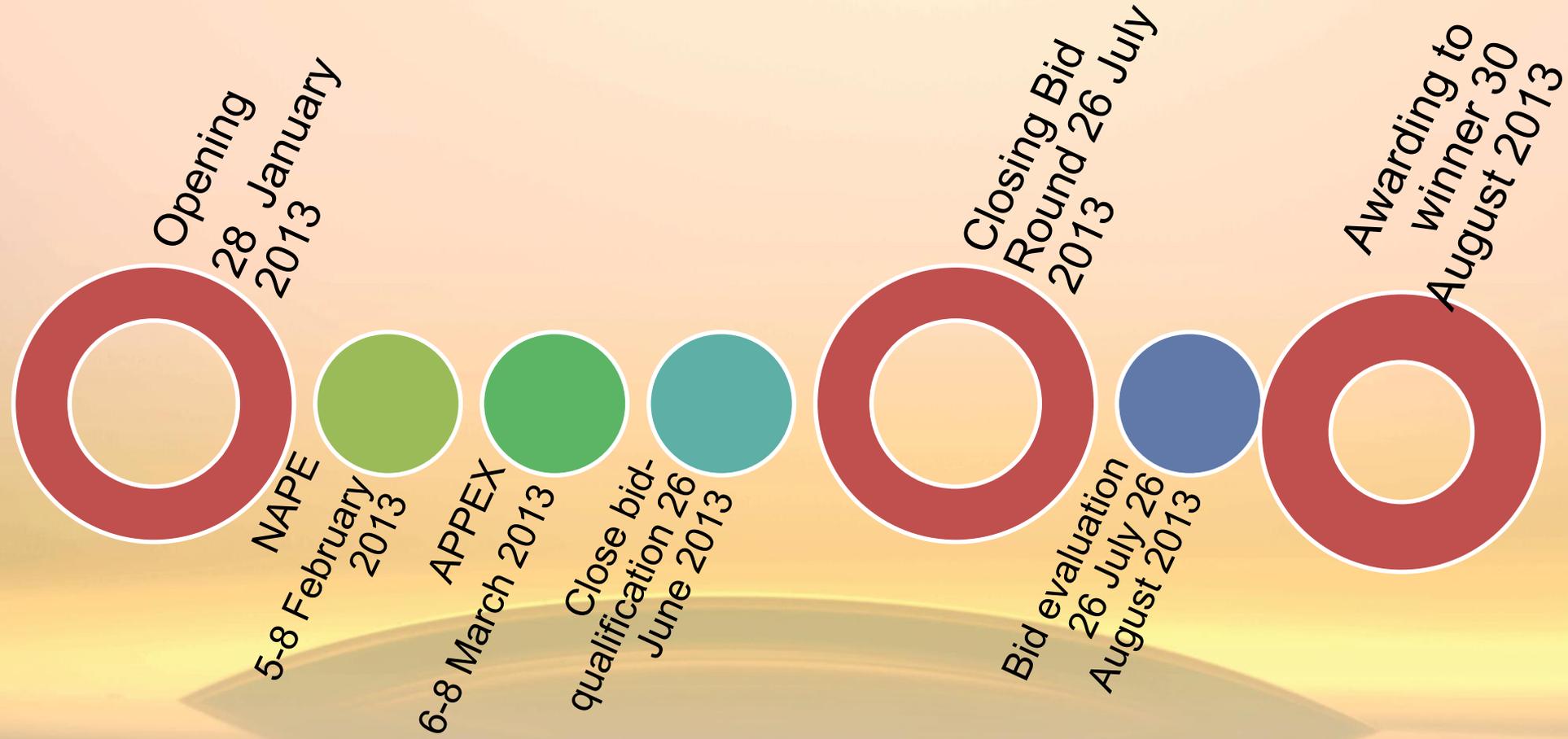
R- Slices	Factor	Staatsolie (%)	Share
0-1.25		20 + X	
1.25- 1.50		25 + X	
1.50-1.75		30 + X	
1.75-2		40 + X	
2-3		50 + X	
>3		70 + X	

# Why Suriname?

- Good potential for seals
- A proven Cenomanian - Turonian Source Rock and potential for significant petroleum system sourced by the Callovian
- Migration from juxtaposed Cenomanian Turonian Source Rock and vertical migration from Callovian Source rock
- Higher potential for good reservoir in the Aptian sandstones of the mini basins
- Aptian mini basins, Jurassic - Aptian anticlinal folds, fault related structures (rotated faulted blocks, possible thrust fault blocks)

- Economic growth- example in the Caribbean
- Politically Stable
- Safe country to operate
- Fast Decision Making
- Staatsolie reliable and supporting partner
- Adjusted fiscal terms
- Excellent data

# Schedule of Events



Thank you

# COME AND EXPLORE WITH US

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Staatsolie Maatschappij Suriname N.V.  
Dr. Ir. H.S. Adhinstraat # 21  
Paramaribo-  
Suriname  
Phone: + 597 439781  
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Visit Staatsolie's virtual data room:  
<http://staatssuriname3111.ezdataroom.com>

**STAATSOLIE**