



# Leviathan Project Sanction

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# Leviathan – Project Highlight

## Ownership

Delek Drilling 22.7%, Avner 22.7%, Ratio 15%

Noble Energy (operator) 39.7%

## 2C Resources

21.9 tcf (621 bcm), 39.4 mmbbl condensate

## Estimated First Gas

Year end 2019

## Production Capacity (Phased development)

Phase 1A- 1.2 bcf/d (~12 bcm/y)

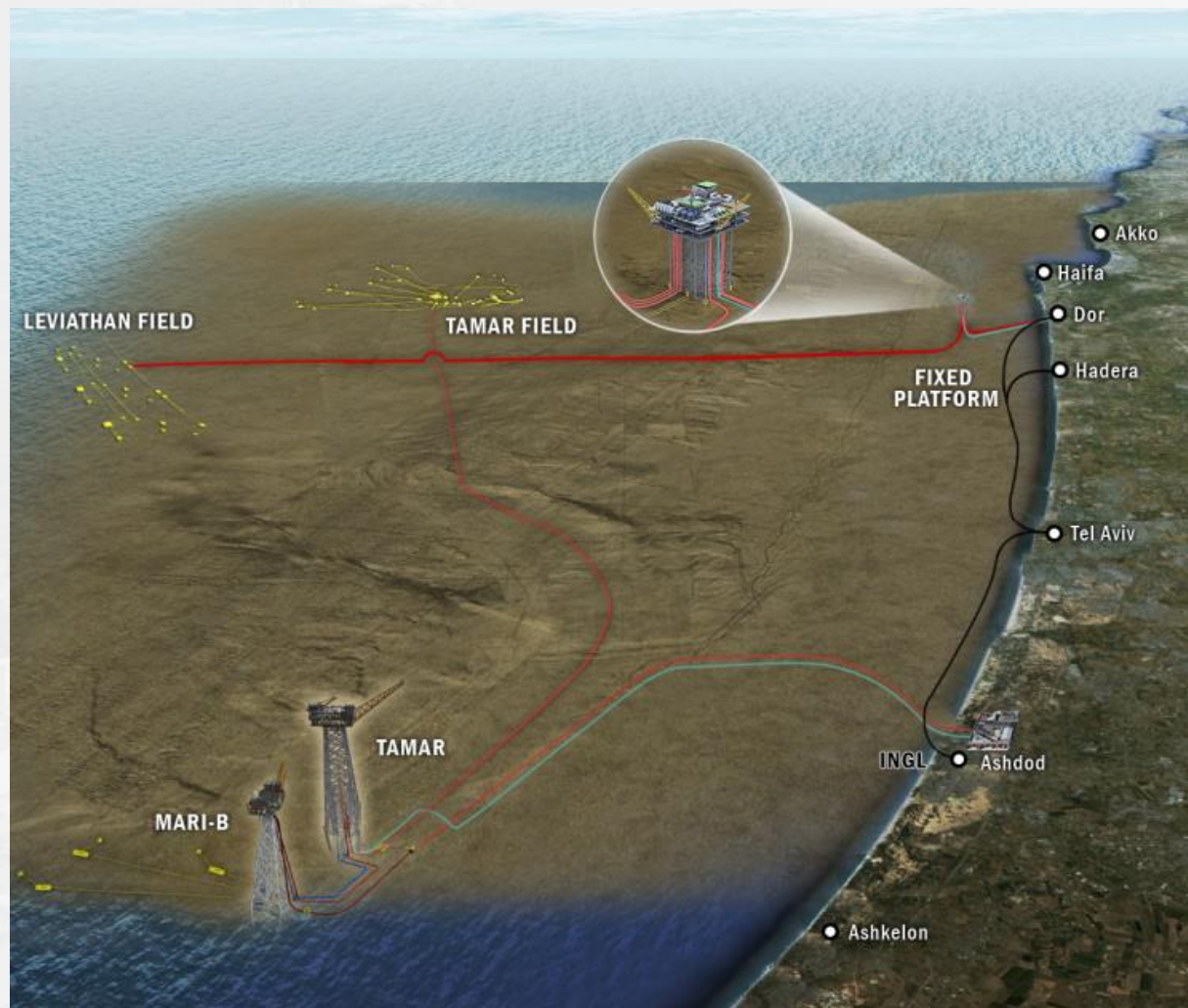
Phase 1B- 0.9 bcf/d (~9 bcm/y)

## Estimated Capex Development (Phase 1A -100%)

\$3.75 B – 1.2 bcf/d

## Additional Prospective Resources (P50)

560 mmbbl oil (liquids), 4.5 tcf Gas





# Leviathan – Modular Development

## Phase 1A of Leviathan development sanctioned, future cost efficient expansion

- ❑ Development plan for phase 1A includes construction of an offshore fixed platform with a 1.2 bcf/d (approx. 766 bcf/y) capacity, Capex of \$3.75B
- ❑ Full development of phase 1 includes a cost effective additional module (phase 1B) with up to 2.1 bcf/d capacity

Capacity of 1.2 bcf/d (approx. 438 bcf/y)



Source: Leviathan operator (NBL)

Capacity of 2.1 bcf/d (approx. 766 bcf/y)



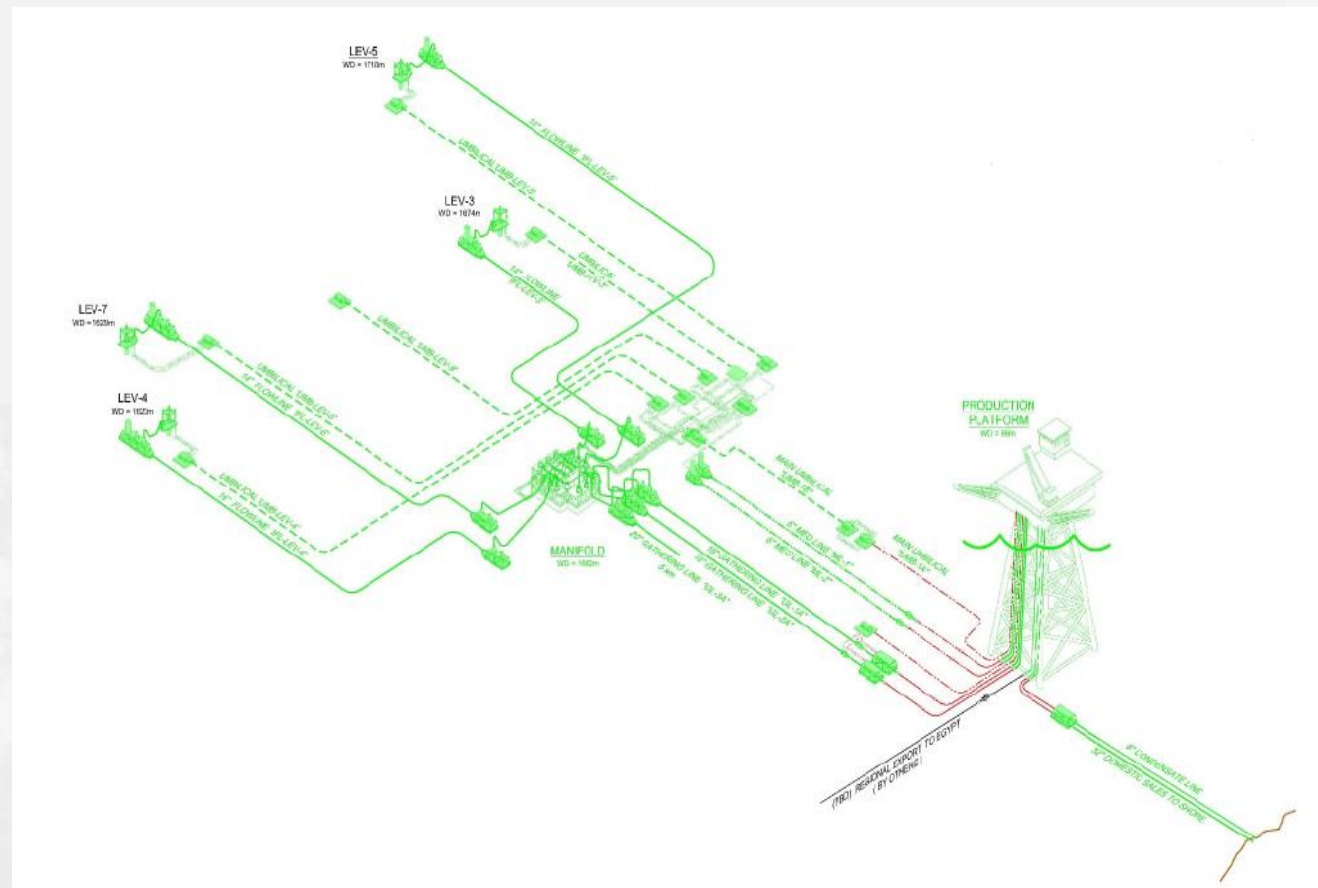
# Leviathan Phase 1A

## 1.2 bcf/d module development detailed design

### 1,200 mmcfd capacity:

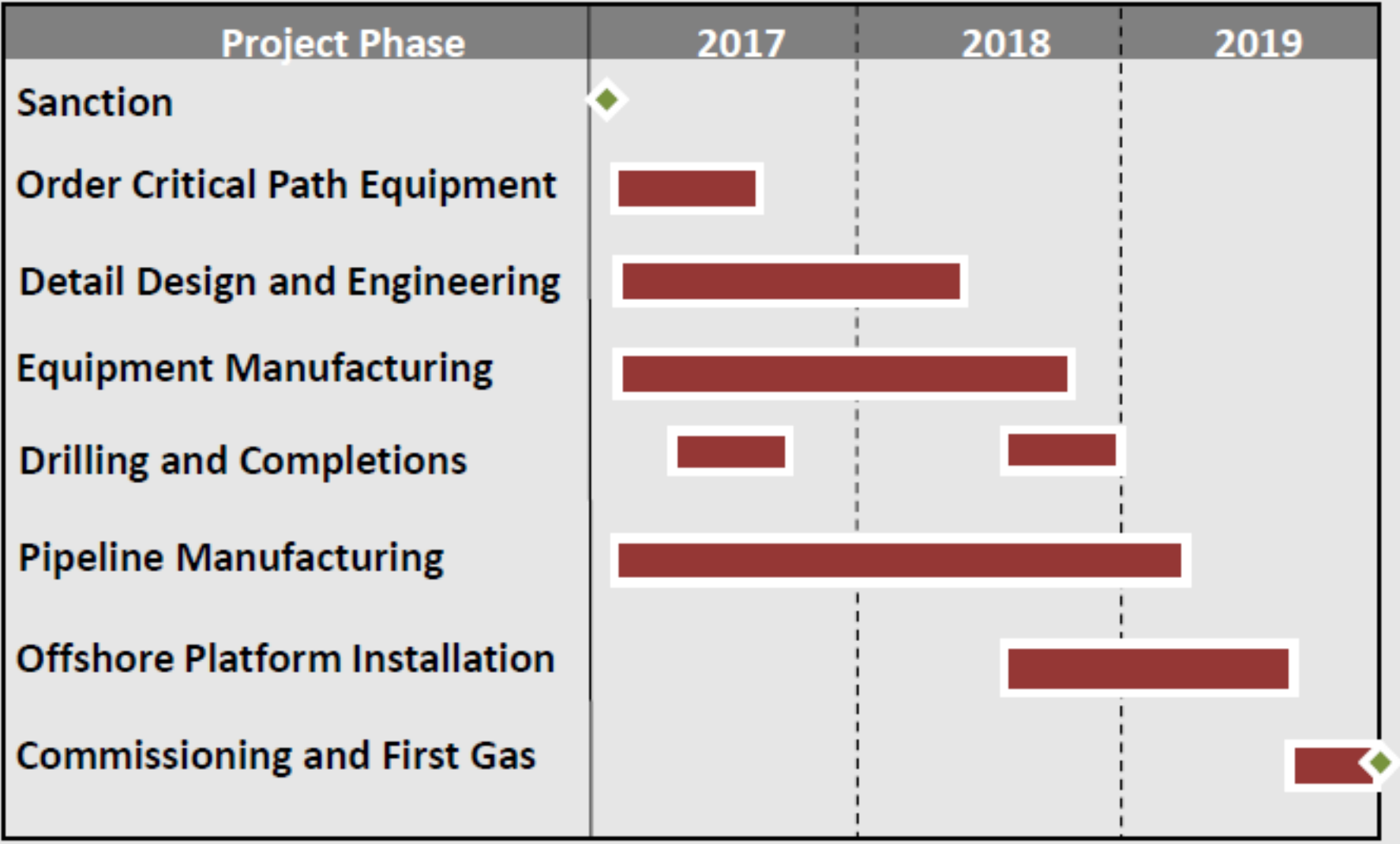
- 4 Subsea wells, each capable of up to 400 mmcfd (4.1 bcm/y)
- 2 X 18" subsea tieback flowlines, 117 km each capable of up to 600 mmcfd (6.2 bcm/y)
- 4 infield flowlines + 1 Umbilical + 2 MEG flowlines
- Manifold entering 6 slots
- Platform- 3 Process trains each capable of up to 450 mmcfd (4.6 bcm/y each)

\*Resources: 2C, based on NSAI report 2014



Source: Leviathan operator (NBL)

# Development Work Plan Schedule



Source: Leviathan operator (NBL)



# **| Leviathan Phase 1A Development**

**Key contracts, for on time and on budget delivery, are in place :**

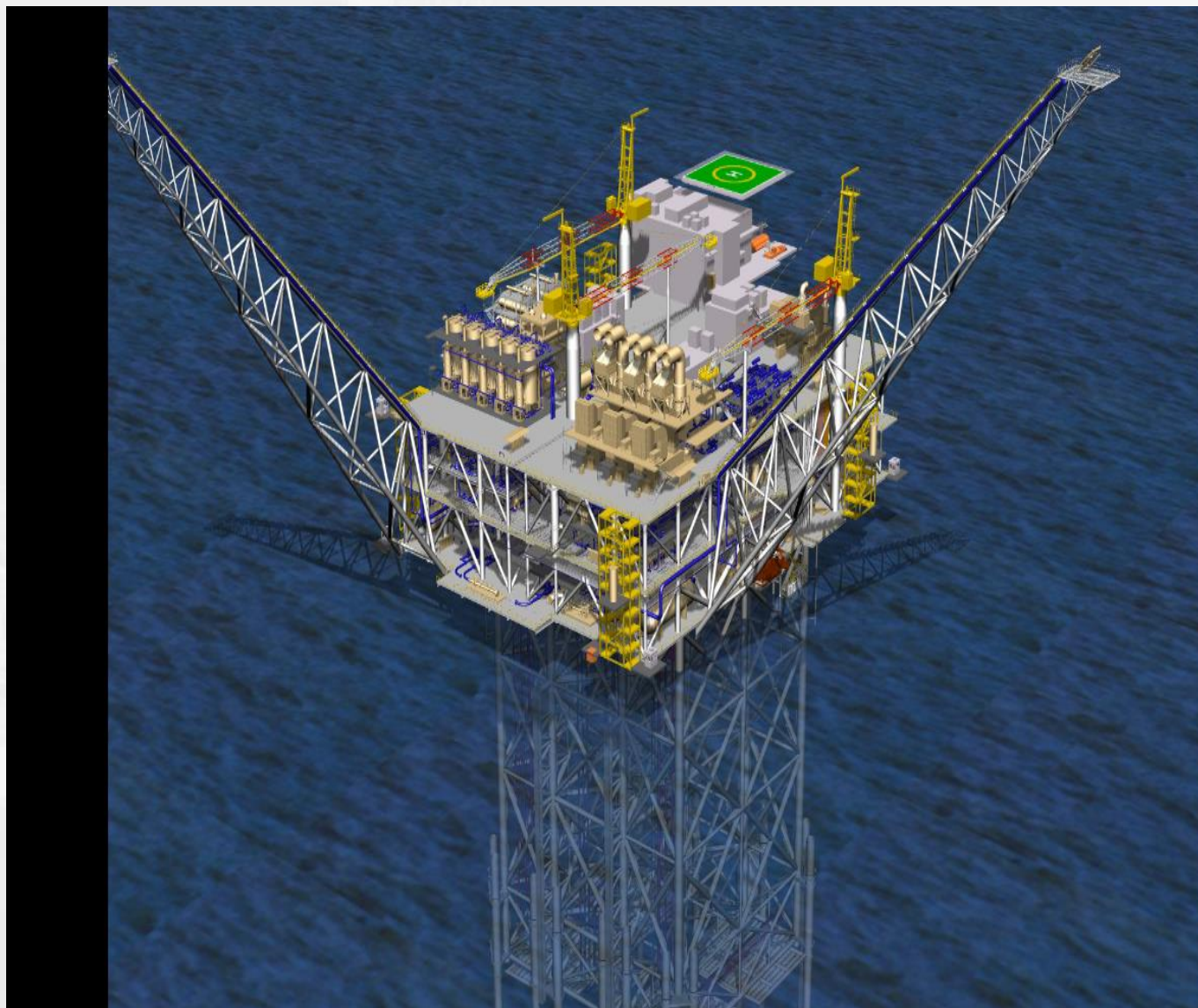
## **Fabrication, Transportation, & Installation**





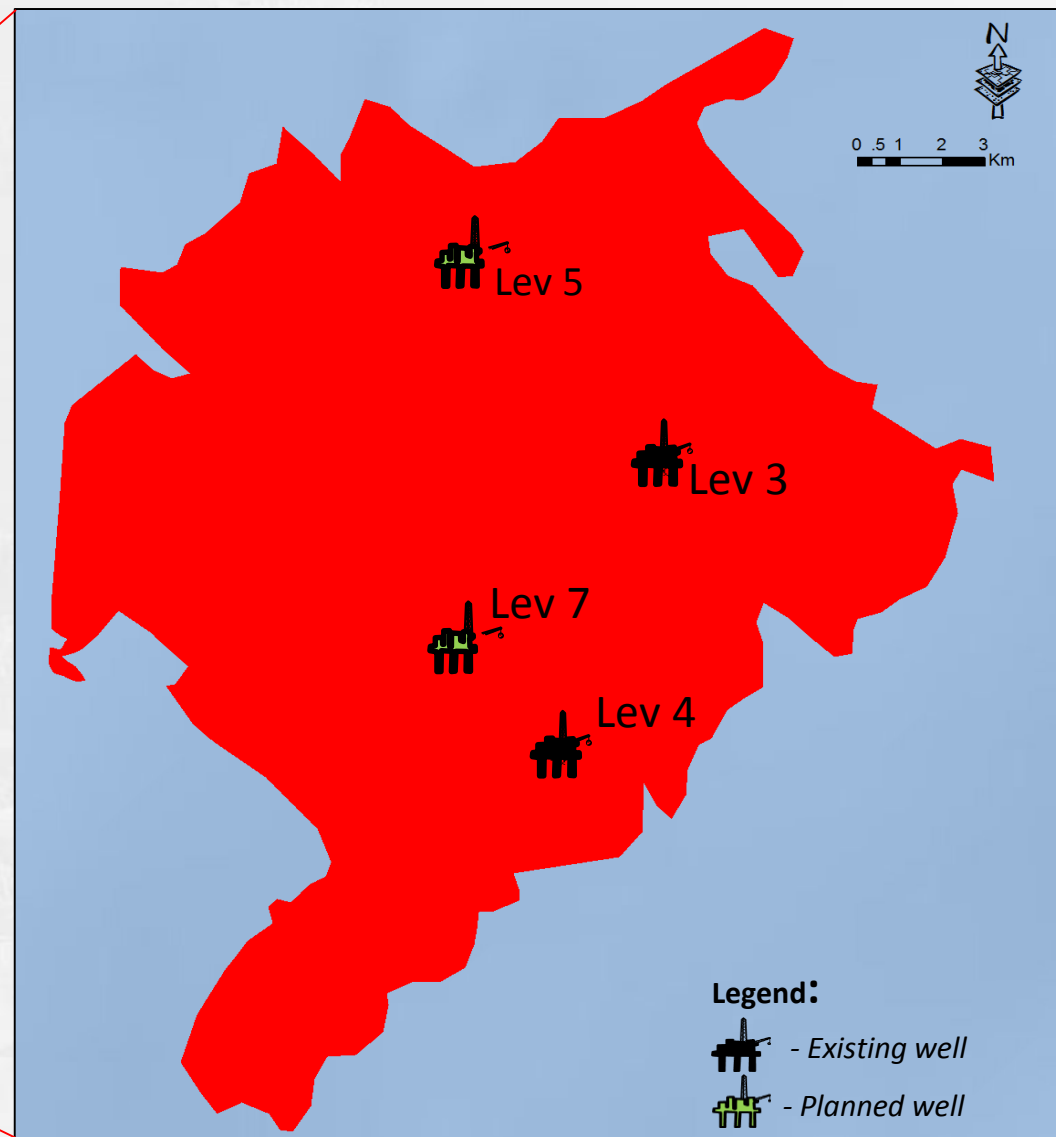
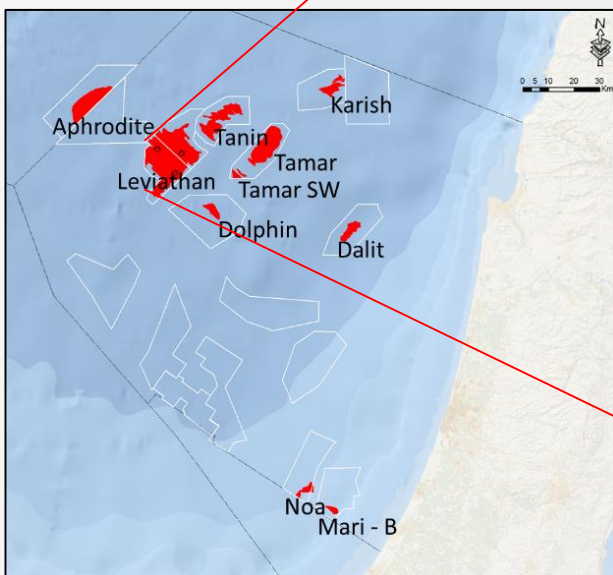
# Leviathan – Technical Status Update

- Front End Engineering Designed Finalized
- Subsea gathering pipeline route finalized
- ~75% of budget based on firm bids and signed LOI's
- Drill 1 to 2 new production wells in 2017
- Critical regulatory approvals for on-shore landing received
- Risk modeling of budget and schedule completed
- All technical and procurement milestones required for sanction achieved

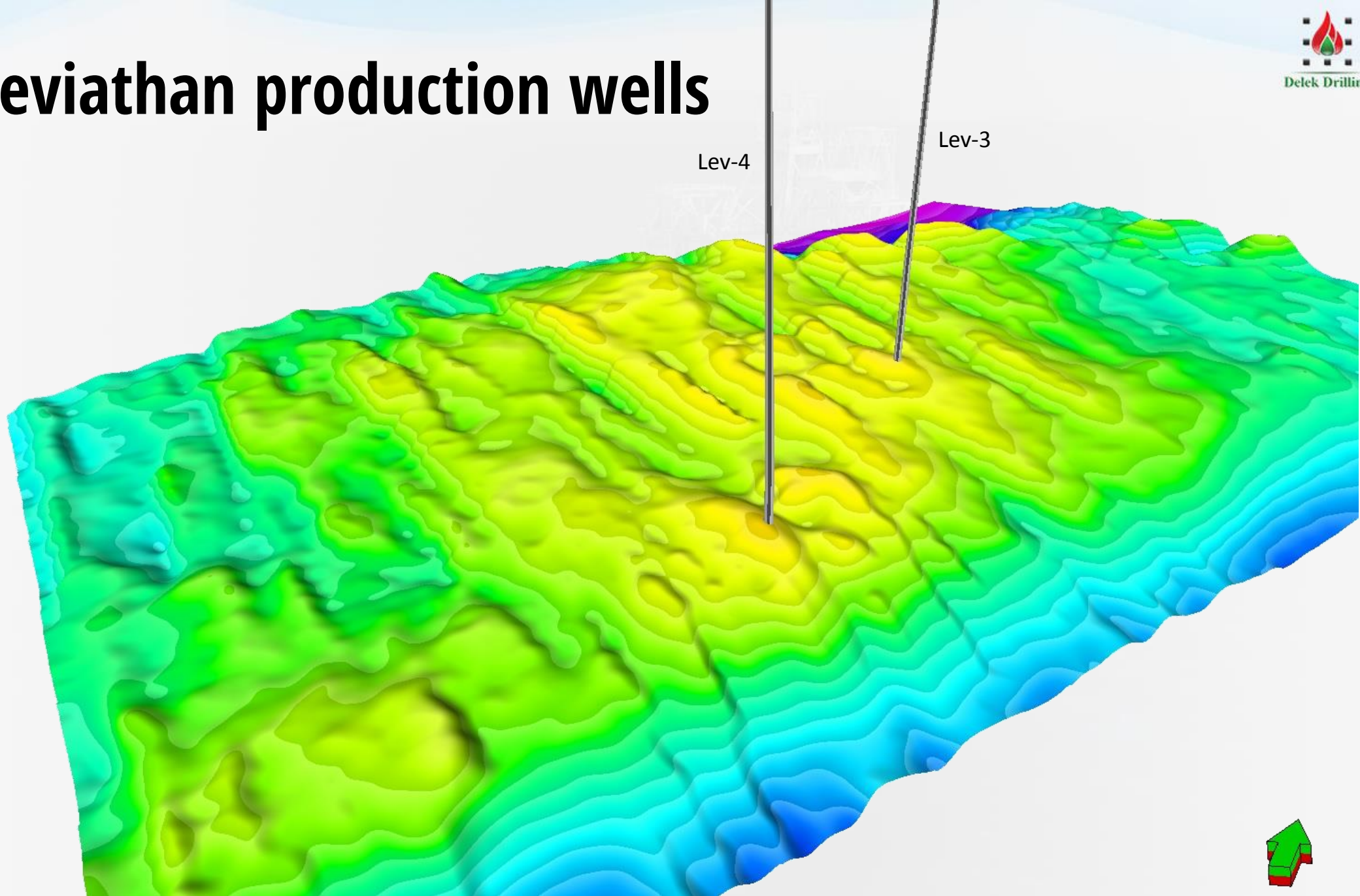




# Leviathan Sub Surface Development

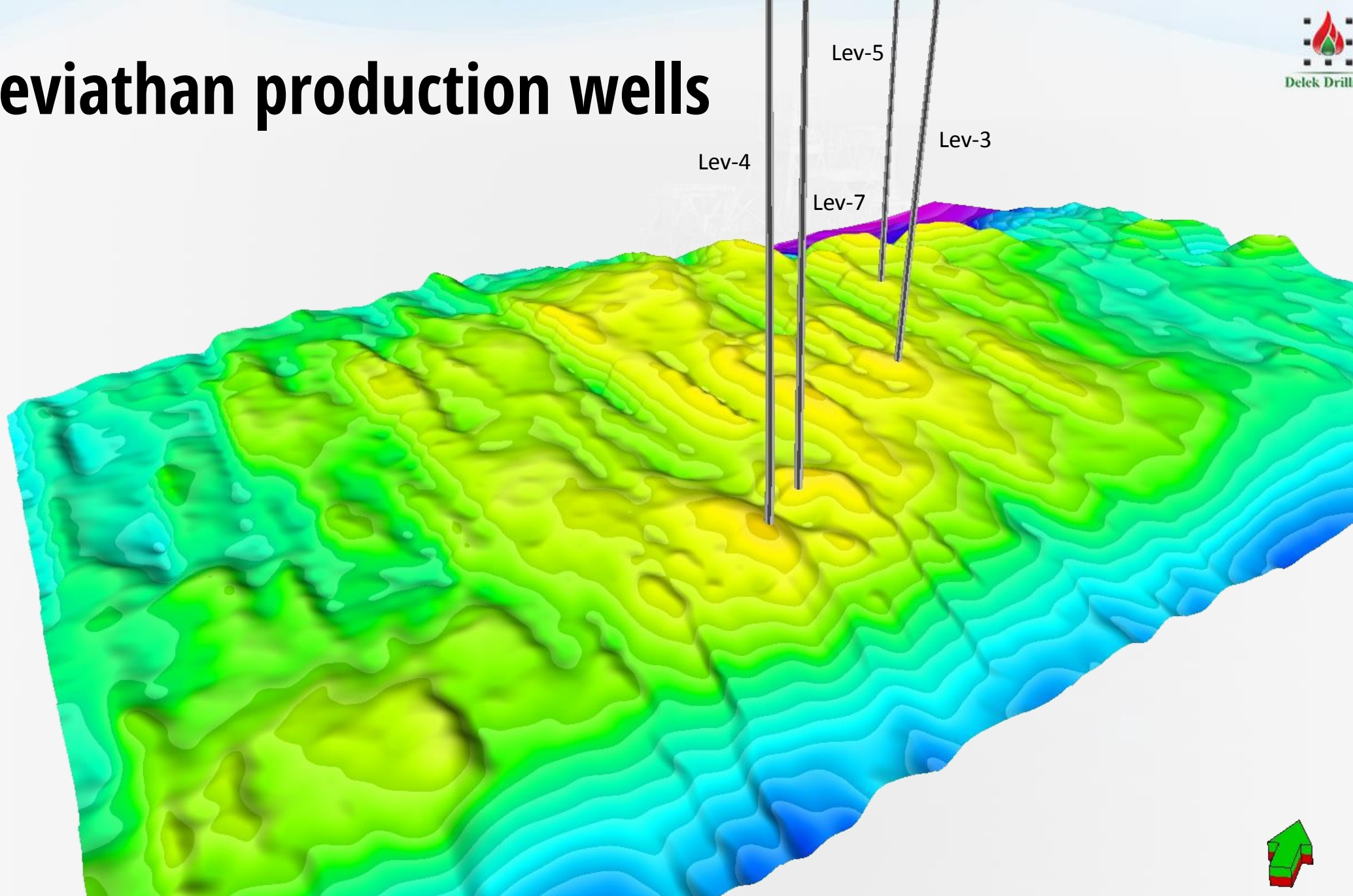


# | Leviathan production wells

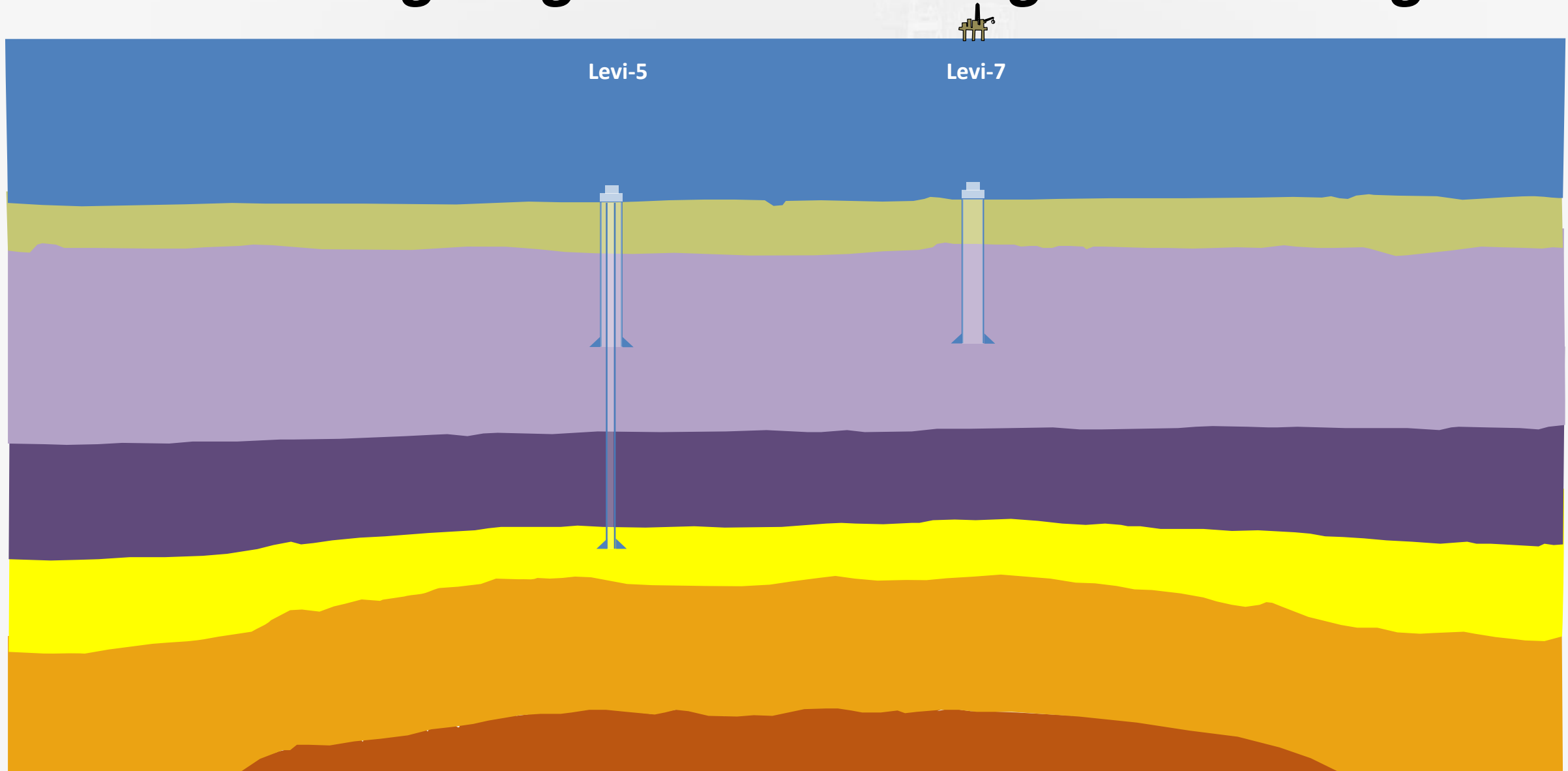




# Leviathan production wells

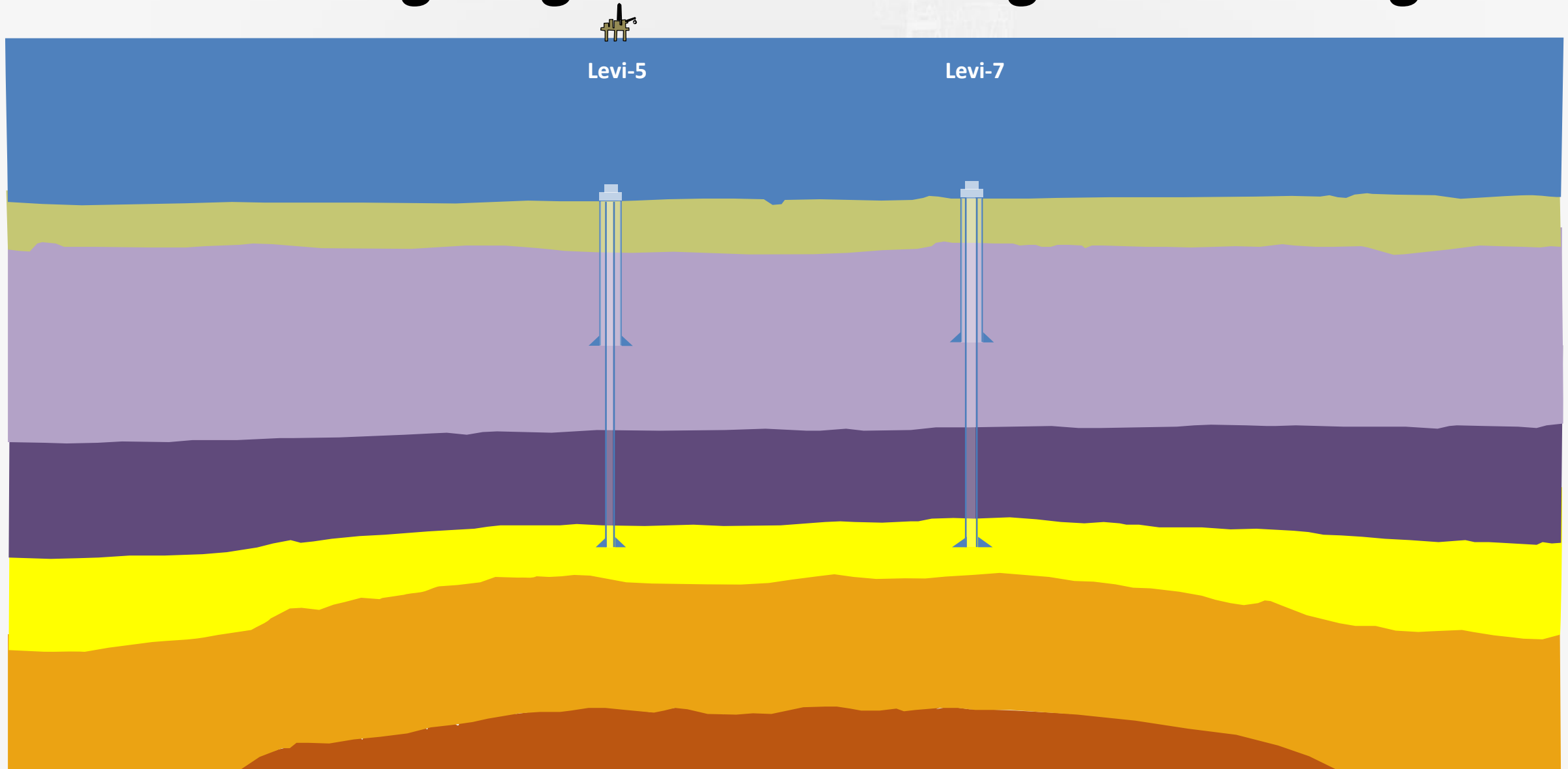


# 2017 Drilling Program- Considering Batch Drilling

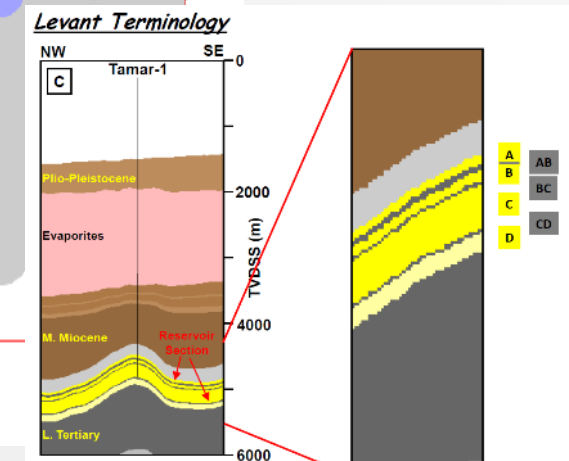
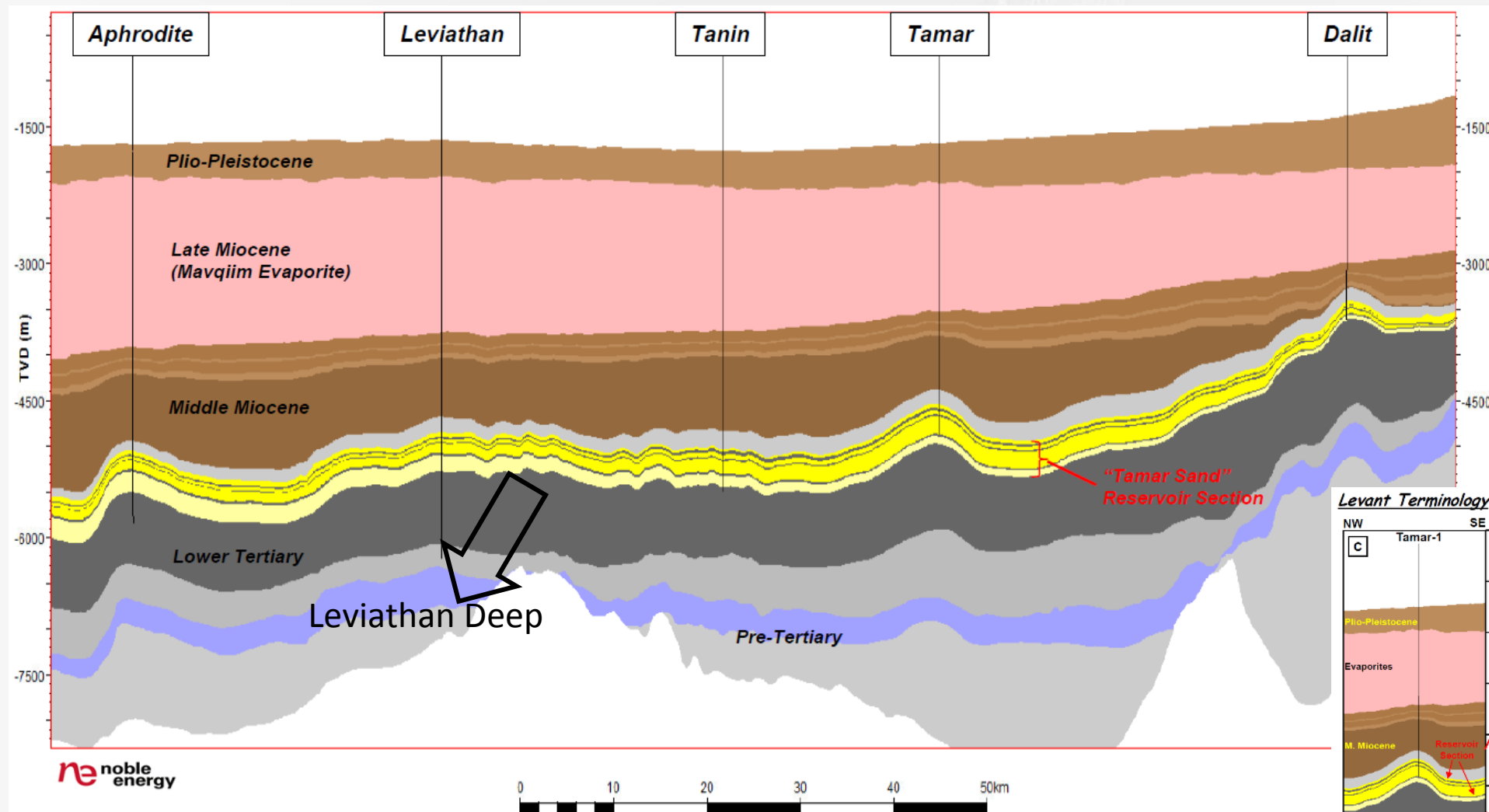




# 2017 Drilling Program- Considering Batch Drilling



# Levant Basin – Geology



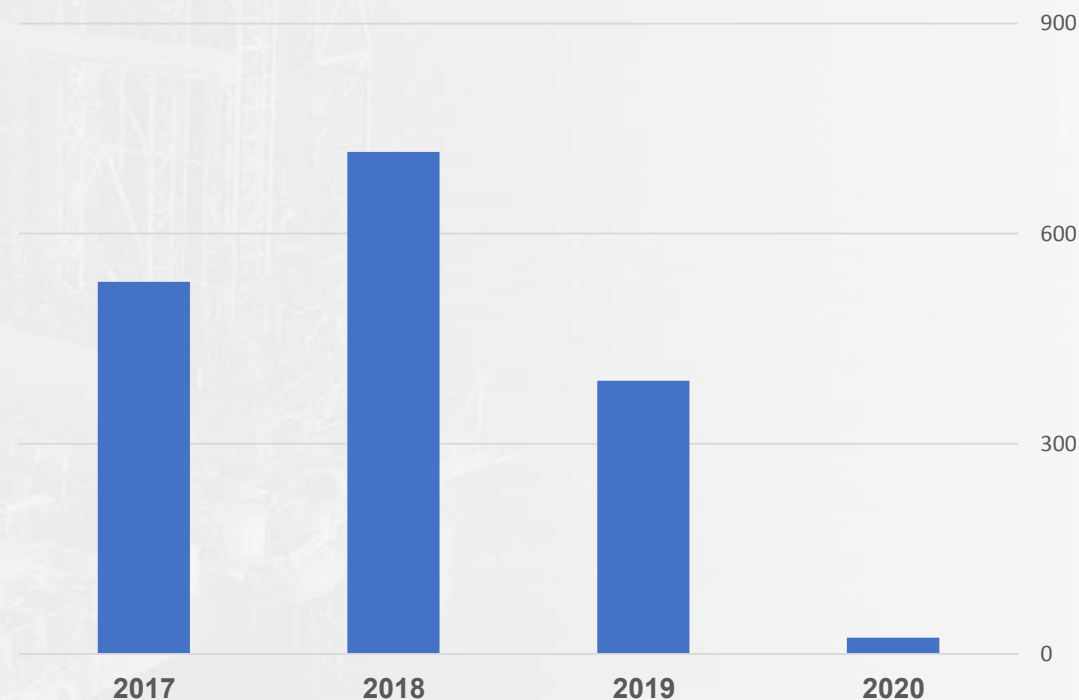


# Leviathan Financing

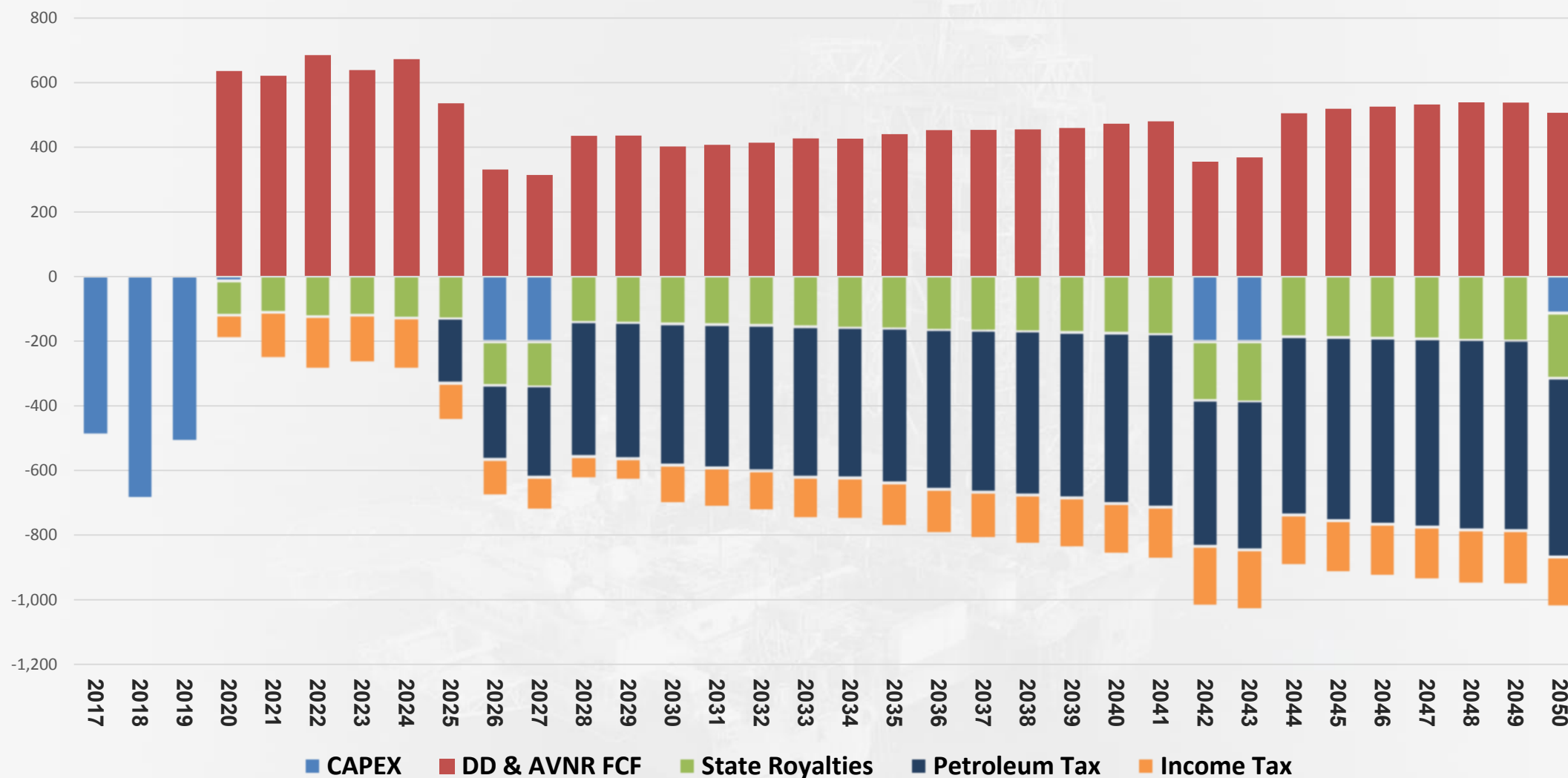
## Bridge to bond project finance secured with credit agreement

- ❑ Delek Drilling & Avner oil exploration  
Capex share of c. \$1.75 B
- ❑ 4 years bridge financing with target to refinance through long term bond financing
- ❑ Funding is based on a combination of debt and LP's sources
- ❑ Facility to be drawn over time, subject to development progress and milestones
- ❑ Delek & Avner, Noble Energy and Ratio Oil have already spent over \$1B combined in exploration and development costs

### DD & AVNR Development Capex Ramp-Up (\$mm)



# Leviathan Phase 1A Expected Cash Flow (\$mm)



- Delek Drilling & Avner (combined) share of Leviathan Phase 1A expected DCF published on November 2016
- Capex in the years 2017-2020 reflect Delek Drilling & Avner share of Leviathan phase 1A development capex (\$3.75B- 100%) recently sanctioned; Post 2020 capex reflects Delek Drilling & Avner estimated future capex related to phase 1A







An aerial photograph of an offshore oil rig in the middle of the ocean. The rig's main deck is painted with the flag of Israel, featuring two horizontal blue stripes and a blue Star of David in the center. Several large cranes are visible on the rig, including a prominent red one and a yellow one. To the left, a large black crane structure is partially visible, with the word 'EEREMA' written on it. The ocean is a deep blue, and the sky is overcast with soft, grey clouds. The overall scene depicts a major industrial operation at sea.

# Thank You