

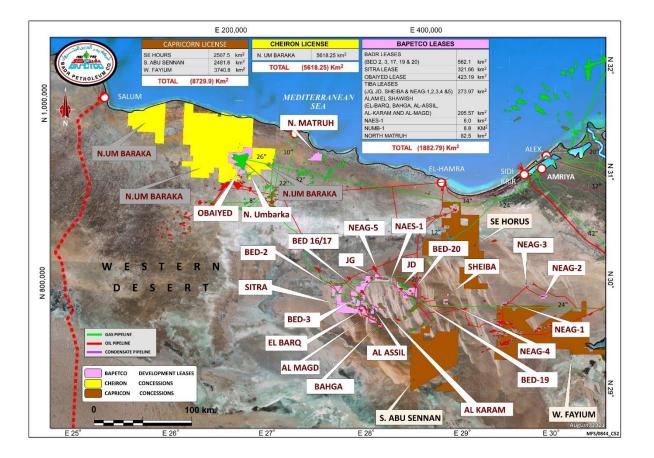
# **Adding A New Exploration Opportunities in brown Fields**

### **BED15-C2-1 Discovery**

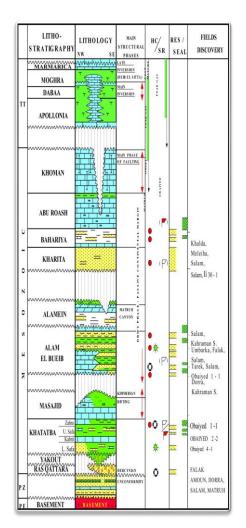
### **BED-3 Development Lease, Western Desert, Egypt.**

BED Area Team Presenter / Ahmed Mostafa

#### **BAPETCO Development Leases, Western Desert, Egypt.**



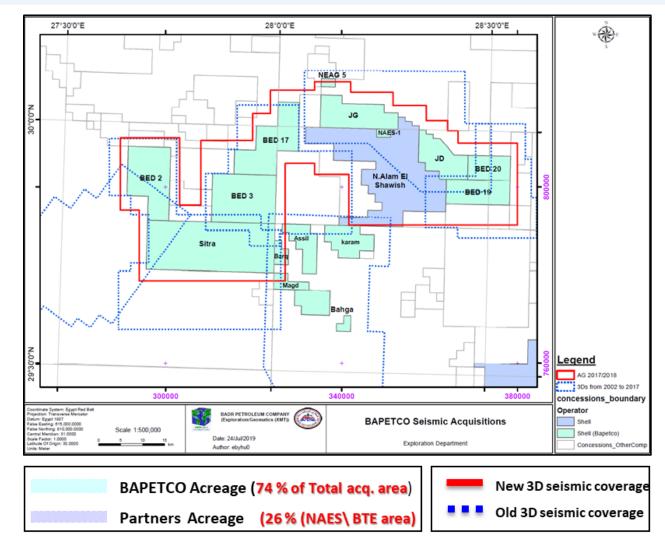
- BED 3 development lease located in the Western Desert, 65 Km west of GPC's Abu Gharadig Field.
- Cretaceous Reservoirs (AR/C,E, G Bahariya Kharita).





### Geophysical Activities: BAPETCO 3D seismic (AG 2017)





#### **Survey Objectives:**

Improve seismic imaging especially for the deeper targets & reduce fault uncertainties to help and support finding new Exploration & Development Opportunities using the up to date technologies.



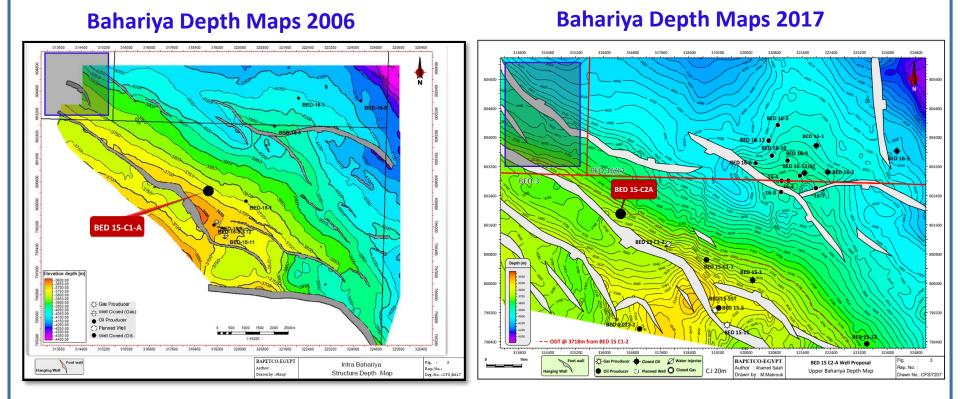
# **Case Study**

# **BED15-C2-1 Discovery**

## **BED-3 Development lease, Wester Desert**

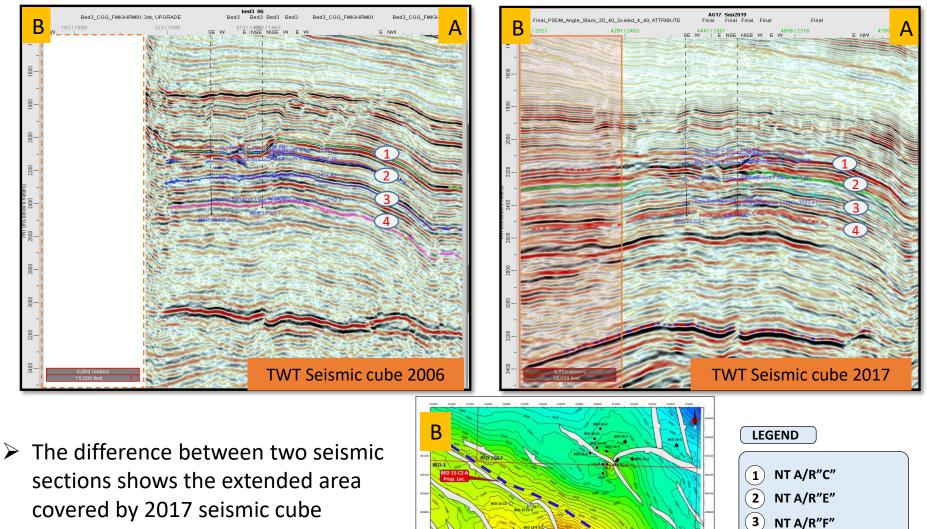
### **BED 15 C2-1 Discovery**



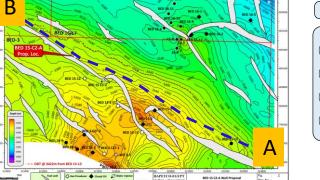


- The BED-3 Development Lease was covered by 3D seismic 1988.
- In 2006, a 750 km<sup>2</sup> 3D survey was acquired to cover the BED-3 greater area with fold data (200). The 3D seismic survey was processed by CGG in 2007.
- A new WAZ 3D seismic survey with higher fold data (2000) was acquired in 2017 covering BED3 Dev. as a part of a carpet survey covering most of BAPETCO development leases.
- > The new survey covers larger area beyond the 2006 areal coverage.
- This enables mapping the NW closure of Bed 15 extending outside the development lease for the 1st time and supported the maturation of BED 15 C2-1 opportunity.

### Seismic Section though BED15-C2-1 discovery



toward the NW direction of the filed.



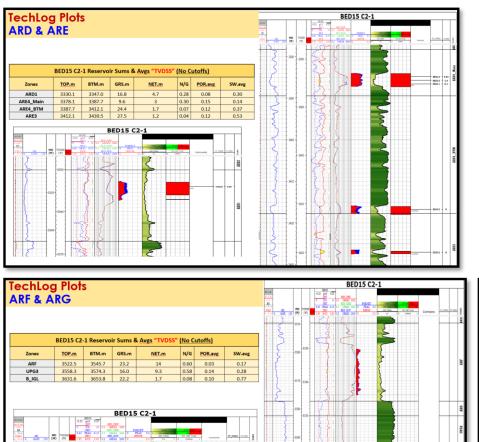


NT Intra Bahariya L.S.

4

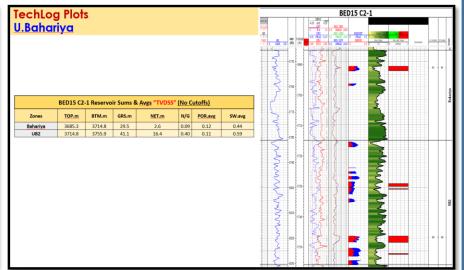
### **BED15-C2-1** Discovery Well Results





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- > Test Results : 1,290 BBL/d Current production : 900 bbl./d from Abu Roash G Cum. Production : 95,000 BBLS





# **BED-3 C-28-A**

# **New Exploration Opportunity**

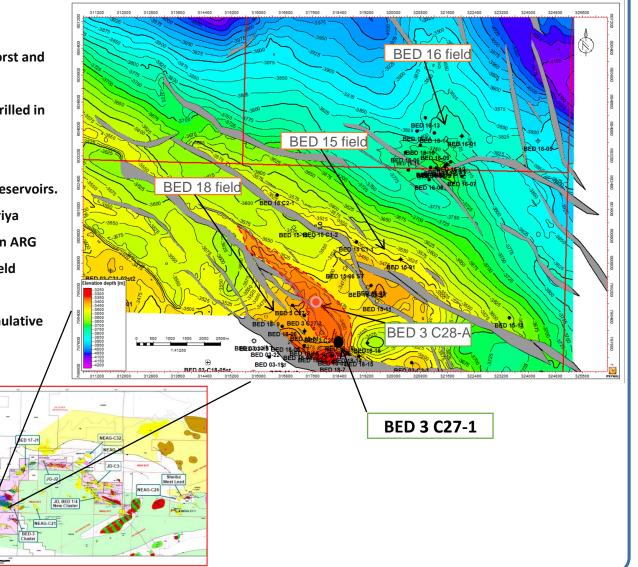
## **BED-3 Development lease, Wester Desert**

### **Field History Background**

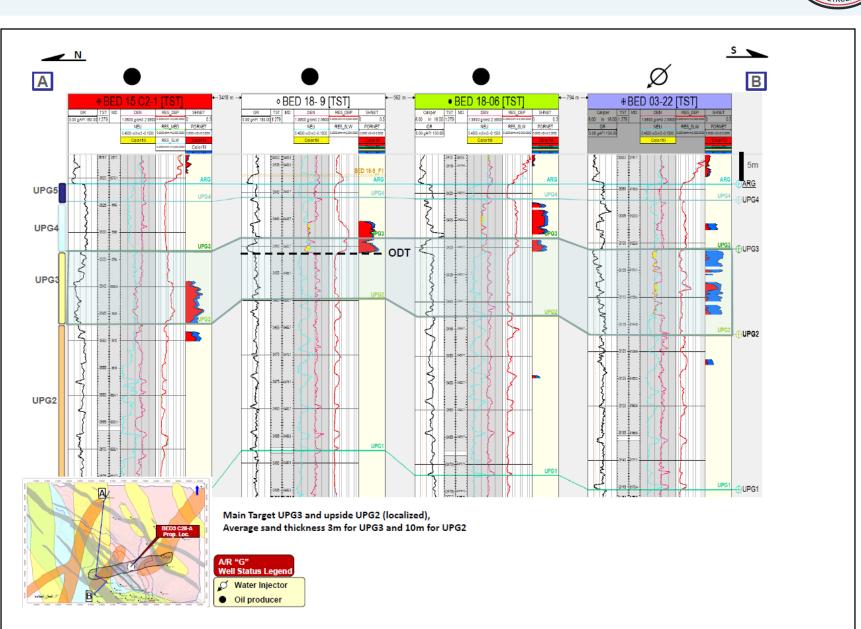


#### ✤ History of BED 18 field.

- Bed 18 field located to the north of BED3 horst and southern of BED 15 field.
- BED18-1 drilled in 1990 which is First well drilled in BED 18 field.
- BED 18 produced about 3.7 MMBBLS as accumulative production from ARE & ARG reservoirs.
- BED 3-C27-1 drilled in 2019 targeting Bahariya reservoir but it found HC bearing reservoir in ARG which add a upside potentiality to BED18 field reflected by BED3 C28 prospect
- BED 3C-27 produced 0.25 MMbbls as accumulative production from ARE & ARG reservoirs.

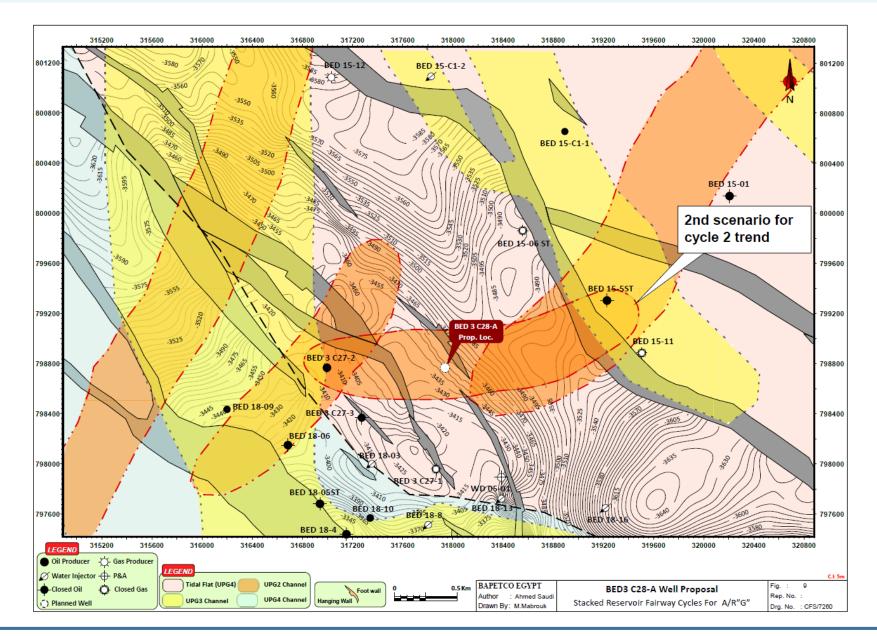


### Upper A/R "G" Correlation Panel



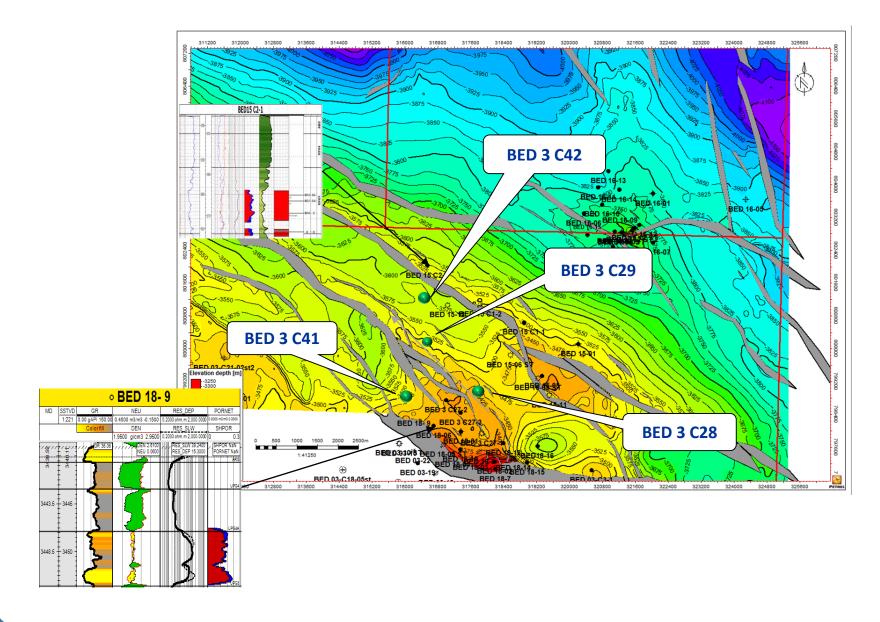
### Upper A/R "G" Stacked Reservoir Fairway Cycles





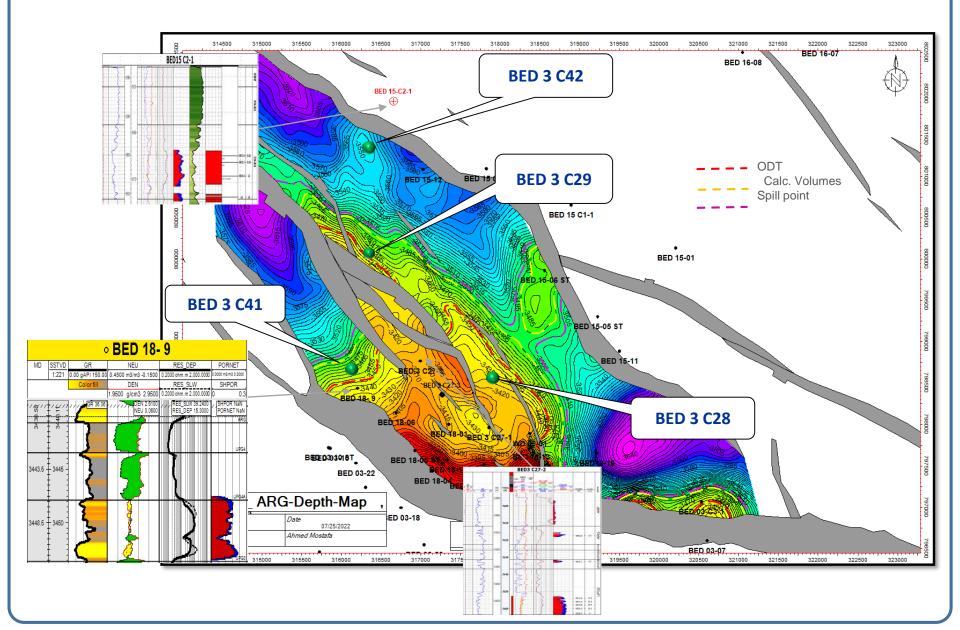
#### BED 3-C27 & BED 15 C2-1 Follow up Exploration Opportunities





### BED 3-C27 and BED 15 C2-1 Follow up Exploration Opportunities





### **Conclusion and Recommendation**

BOR PETROLEUM

 Applying new technologies in the 3D seismic acquisition survey and processing is not a luxury, it is a mandatory to unlock the hidden opportunities in the brown fields (e.g. Stratigraphic, dev. lease boundaries, deep portfolio).

 Extending the current ODT of such a Field will support optimizing the Field FDP with the right number of producers/injectors to realize the field potential and maximize recovery.

