

PETROSANNAN Company

THIN-BEDED LOW RESISTIVITY POTENTIALITY

IN PETROSANNAN FIELD

FOR AR/C MEMBER



GPC Workshop October, 2022





Introduction (Concession Map)



Area of study (AES-E6)



- The area of study is located in south central part of Abu-Gharadig basin, with total area 22.6 Km².
- 14 wells were drilled.
- Main Reservoirs are (ARC, ARE)
- Secondary Reservoirs are (ARD, ARG)

Regional Geoseismic X-Section



This is a regional geoseismic x-section from NW to SE direction illustrates AR/C Mbr structurally higher in the south and lower in the north direction due to set of parallel normal faults divided the area to several structural Blocks





Well Correlation





•ARC spreading all over the area with nearly stable thickness about 45m and mainly composed of shale & silt stone & limestone interbedded with thin beds of sandstone

•ARC Mbr included two zones ARC upper & ARC lower.









- Big differences between reservoir intervals identified from E.logs and cores.
- •Main reasons for miss align between core and logs are due to shale lamination and sand mineralogical composition which affect on wireline log response.



Stacked bodies of laminated shale, Heterlotithics and laminated sandstone





Reservoir Rock Typing



Core Photos For KARIMA-3X well



Reservoir Rock Typing









Results & Recommendation

Well Name (Frac Campaign)	Date Start	Zone	Job Volume (Lb)	Half Length (Mt)	Width (Inch)	Prod. Before	Prod. After
AES-E6(1/9)	31-Mar-21	AR-C LOWER (1692-1698)	82500	92	0.24	110	320
AES-E6(1/13)	16-April-21	AR-C upper (1696-1699)	72600	117	0.16	25	180
AES-E6(1/11)	10-May-21	AR-C UPPER (1687-1692)	69600	88	0.22	0	160
Karima-2X	9-Jan-22	A/R-C upper (1682.5-1685.5) A/R-C lower (1689-1691),(1695.5- 1701.5)	52800	59	0.15	0	140









- **Calibrated sand definition from core to logs in all wells.**
- **Updated petrophysical evaluation respecting new cut-offs.**
- **Updated rock typing respecting different quality sands.**
- **□**Finally, Petrosannan future plan is to stimulate AR/C reservoir in
- **AES-E6** and other Development Leases by using Hydraulic Fracturing
- for all wells not only to improve hydrocarbon recovery , but also to accelerate production.



THANK YOU