



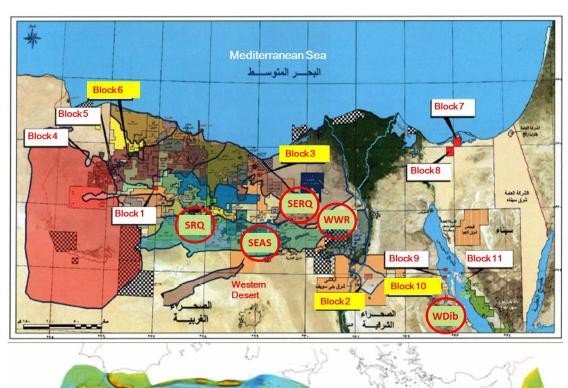
ENPEDCO

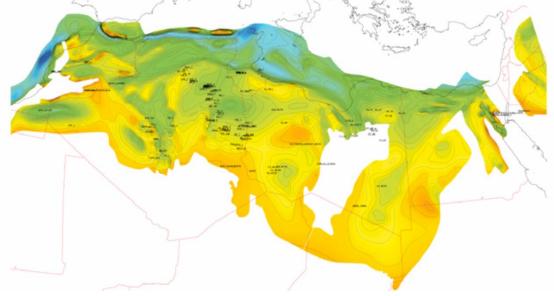
UNLOCKING OF THE HIDDEN POTENTIAL OF ALAM EL-BUIEB ABU GHARADIG BASIN, WESTERN DESERT EGYPT

09/10/2022

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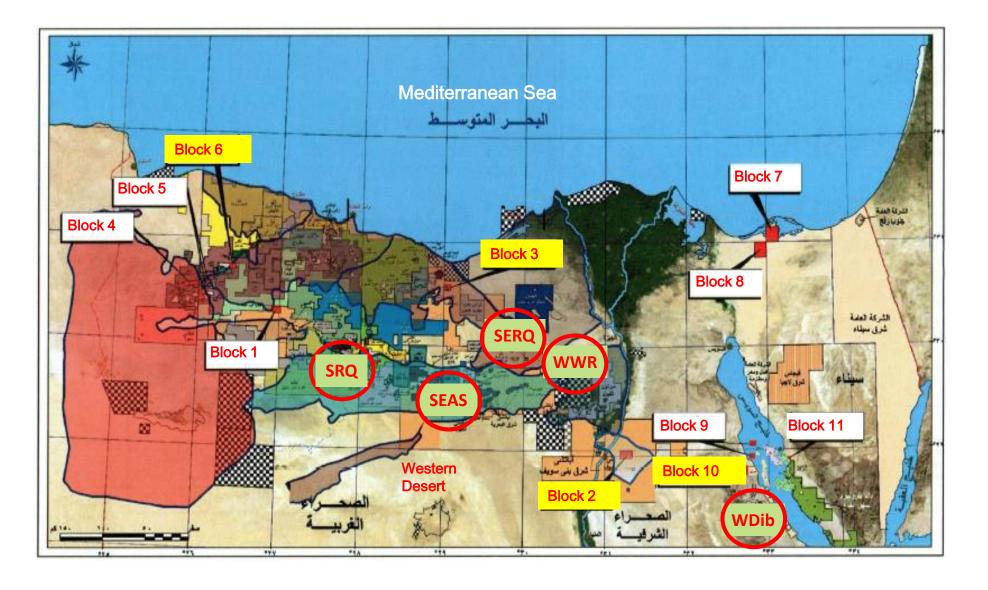
- > Introduction
- ➤ Enpedco history & Shareholders
- ➤ Enpedco block activities
- > AEB regional distribution in North Africa
- ➤ W 29-3 & W80 AEB discoveries & achievements



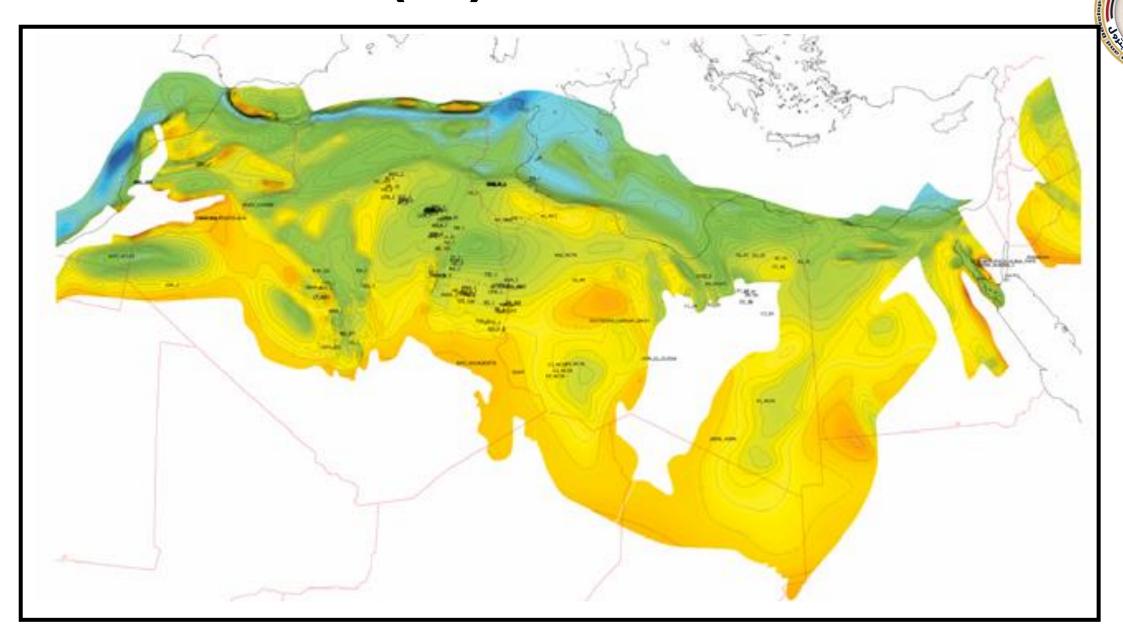


ENPEDCO OPERATING BLOCKS

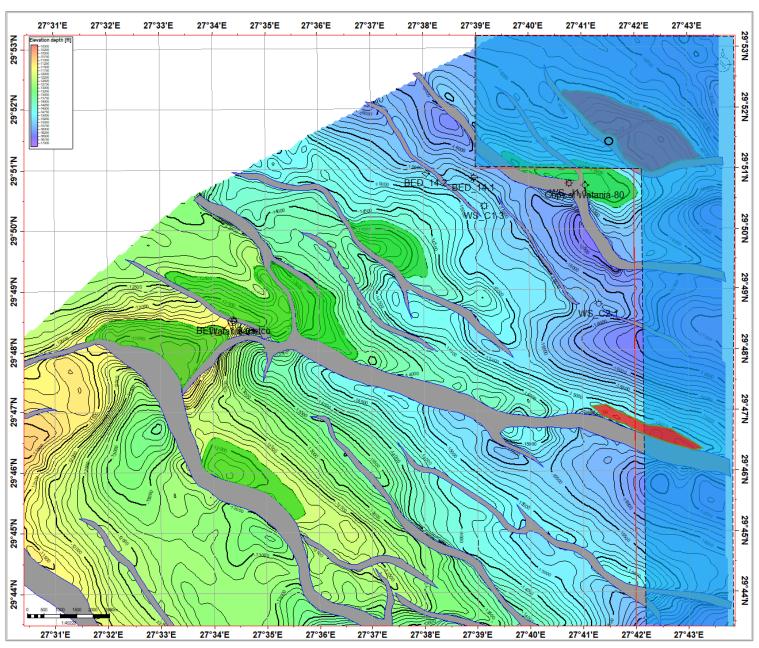




NORTH AFRICA: (LK) PRESENCE



AEB W-80 AEB RESERVOIR LEADS



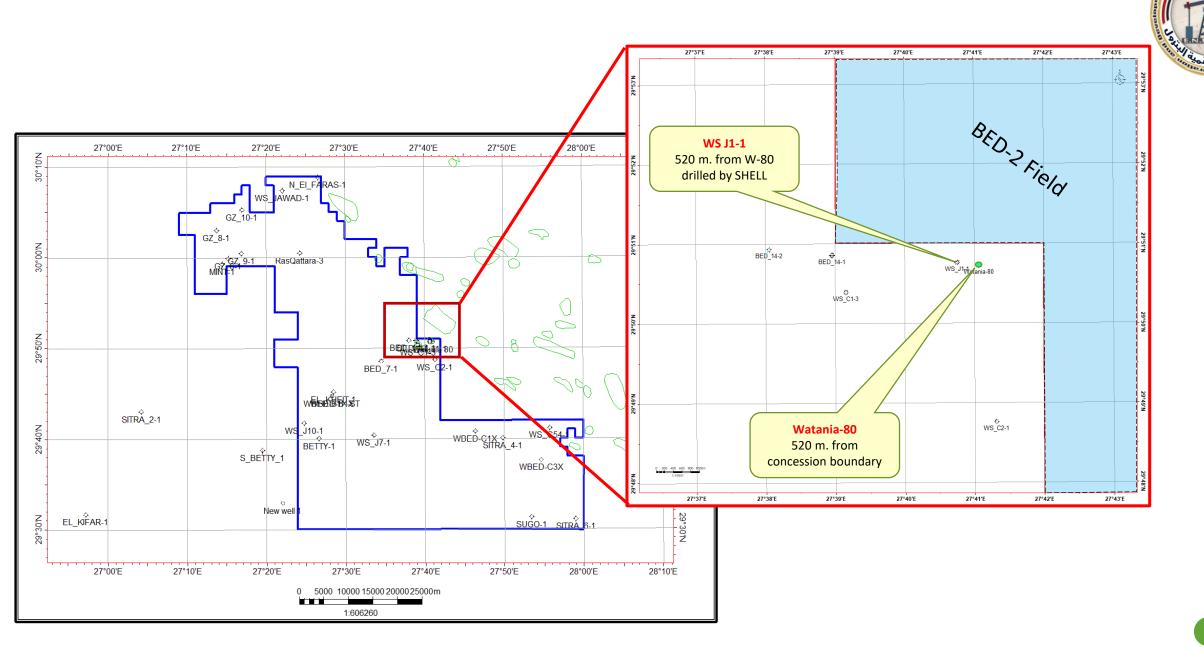


AEB TESTED LOCATIONS

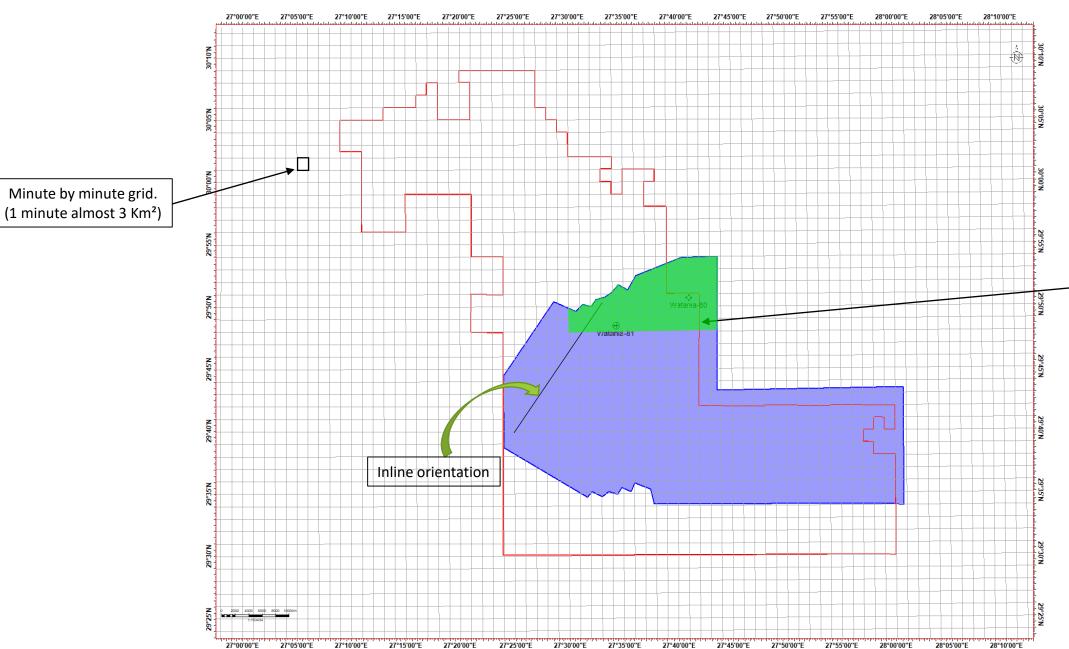




WATANIA-80 LOCATION MAP



WATANIA-80 SEISMIC DATA



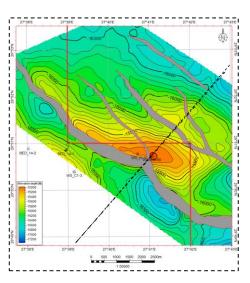


PSDM Re-processed 2022

Depth cube used for interpretation

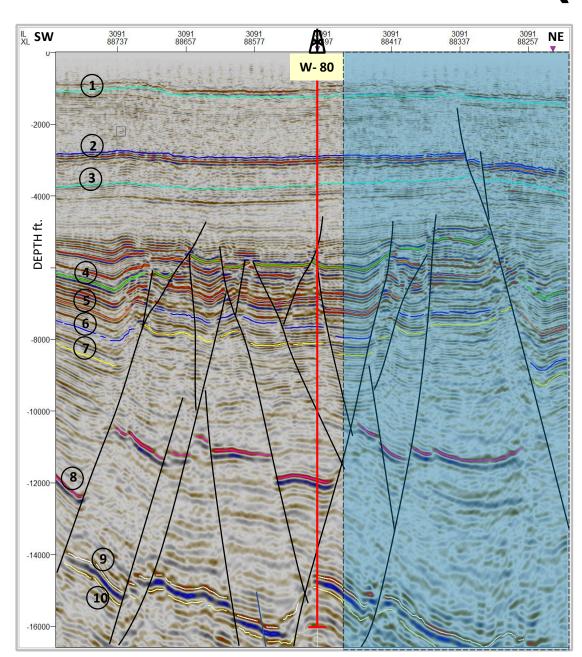
Very accurate cube resulting in a Depth error around 4 ft. @ target level.

WATANIA-80 GENERAL SEISMIC INLINE (DIP)



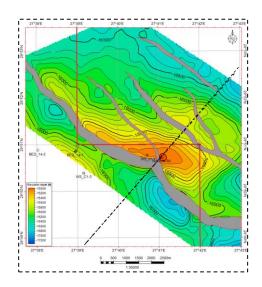


- 2 Top Apollonia
- 3 Top khoman
- 4 Top A/R A
- 5 Top A/R C
- 6 Top Bahariya
- 7 Top Kharita
- 8 Top Alam Dol
- 9 Top Jurassic
- **10** Top Upper Safa

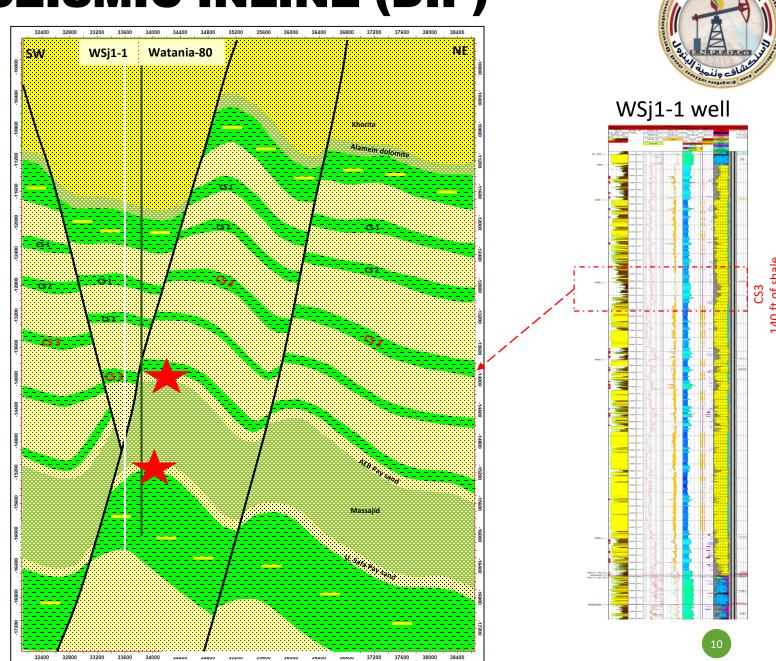




WATANIA-80 GEO-SEISMIC INLINE (DIP)



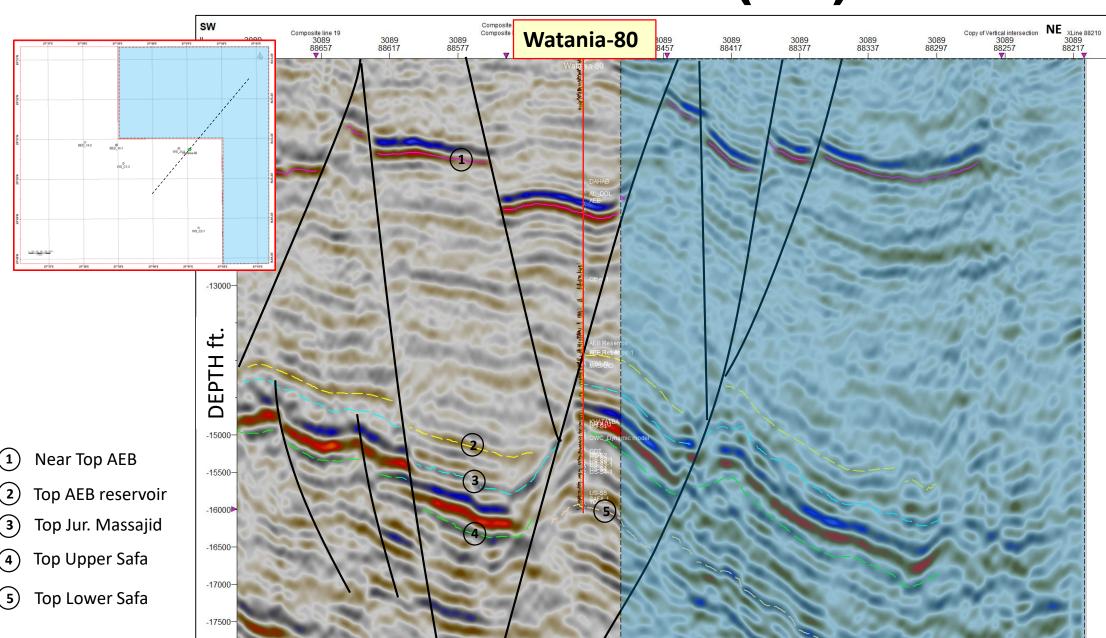
- Following interpretation of Top AEB and Top Jurassic
- Interpretation of correlated shales (CS) with regional extension and presence was carried (most unlikely to be performed by interpreters)
- Checking and optimizing best juxtapositions into leads portfolio.
- CS3 thickness is about 140'.



WATANIA-80 SEISMIC INLINE (DIP)

500 m

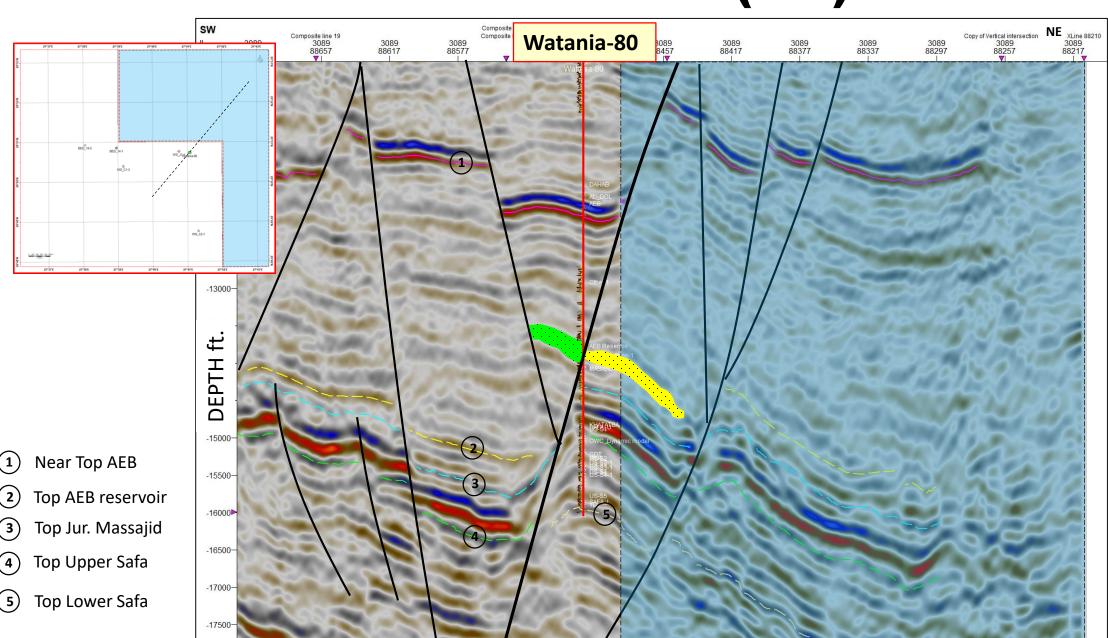




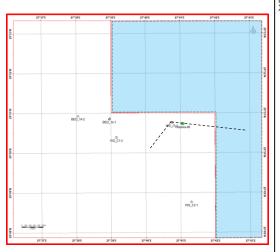
WATANIA-80 SEISMIC INLINE (DIP)

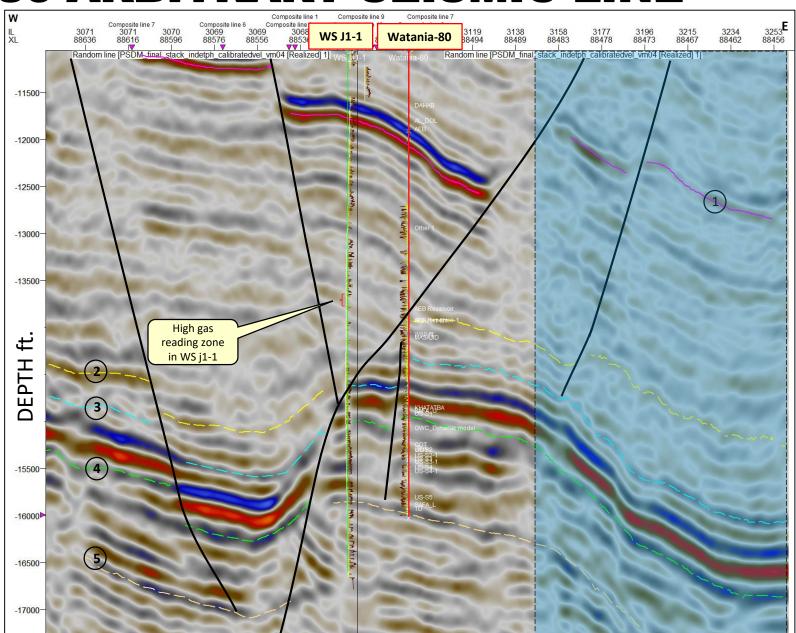
500 m





WATANIA-80 ARBITRARY SEISMIC LINE

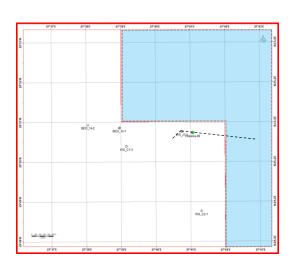


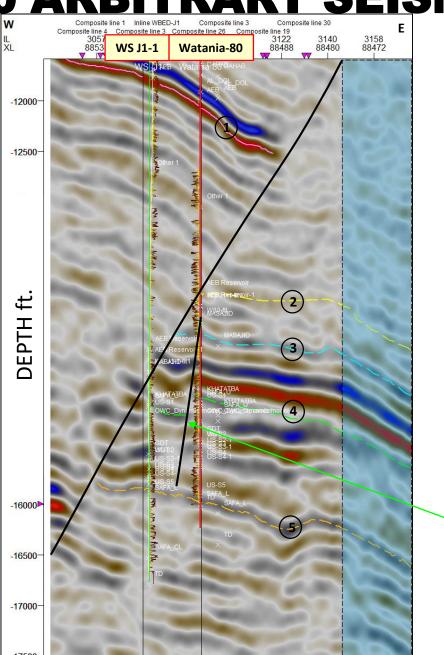


- Near Top AEB
- 2 Top AEB reservoir
- 3 Top Jur. Massajid
- 4 Top Upper Safa
- 5 Top Lower Safa



WATANIA-80 ARBITRARY SEISMIC LINE

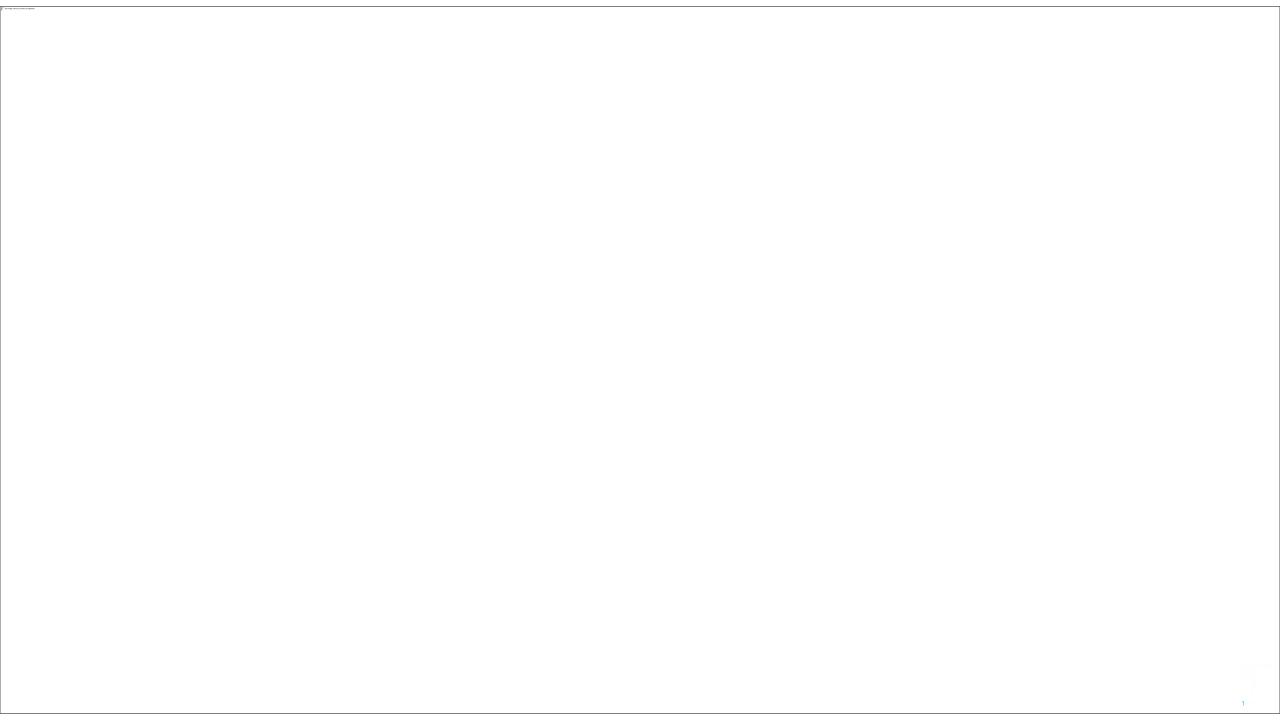




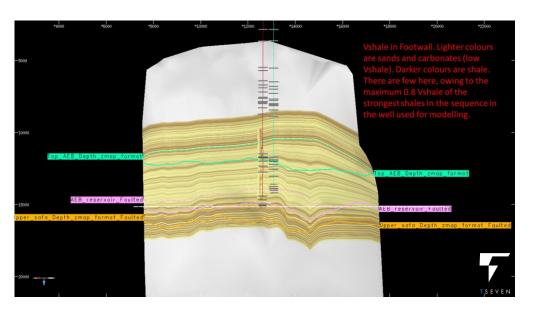


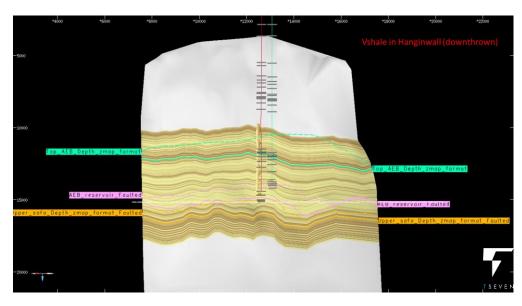
Non sealing fault At Upper Safa reservoir Communication across fault proven by pressure

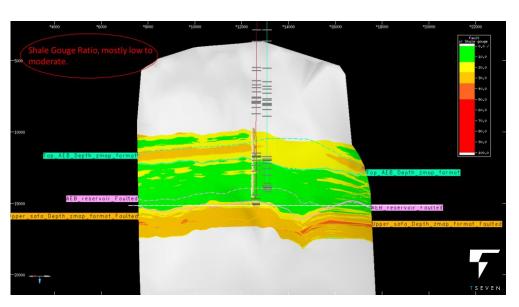
- 1 Near Top AEB
- 2 Top AEB reservoir
- 3 Top Jur. Massajid
- (4) Top Upper Safa
- 5 Top Lower Safa

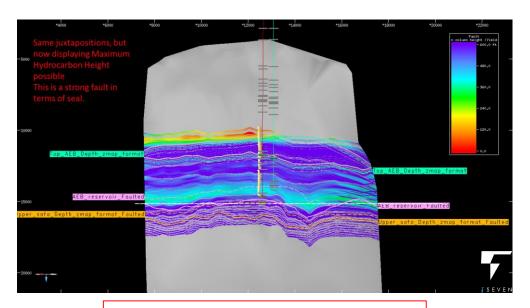


WATANIA-80 FAULT SEAL





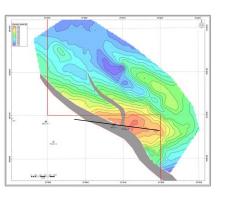


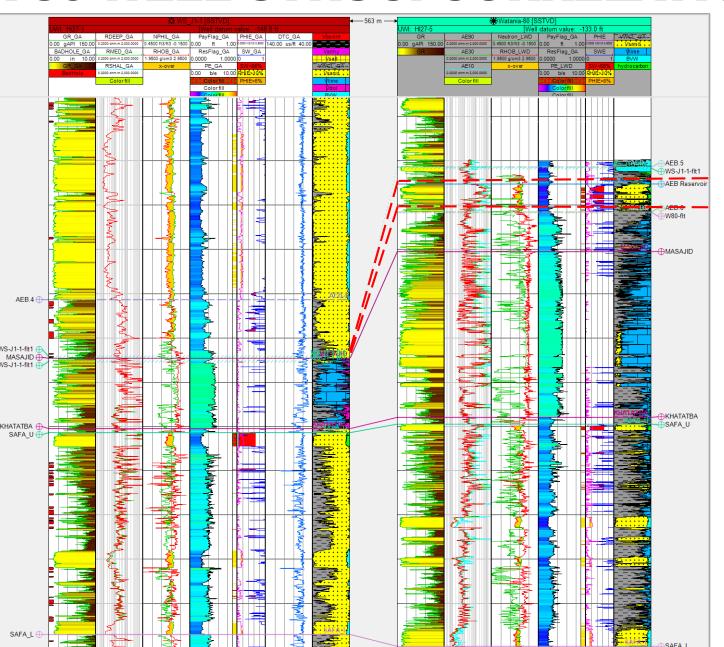


460 ' of column were given as a result of the analysis



WATANIA-80 WELL STRUC. CORRELATION



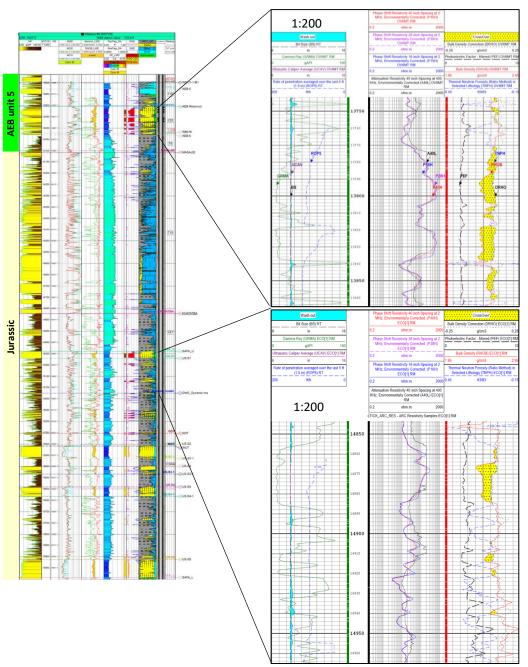


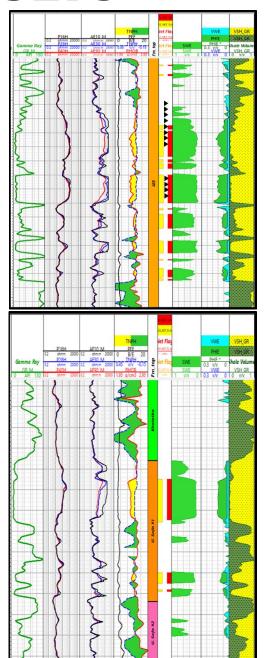


AEB unit 5 sand faulted out in WS J1-1

U. Safa higher 50 ft. than WS J1-1

WATANIA-80 WELL RESULTS



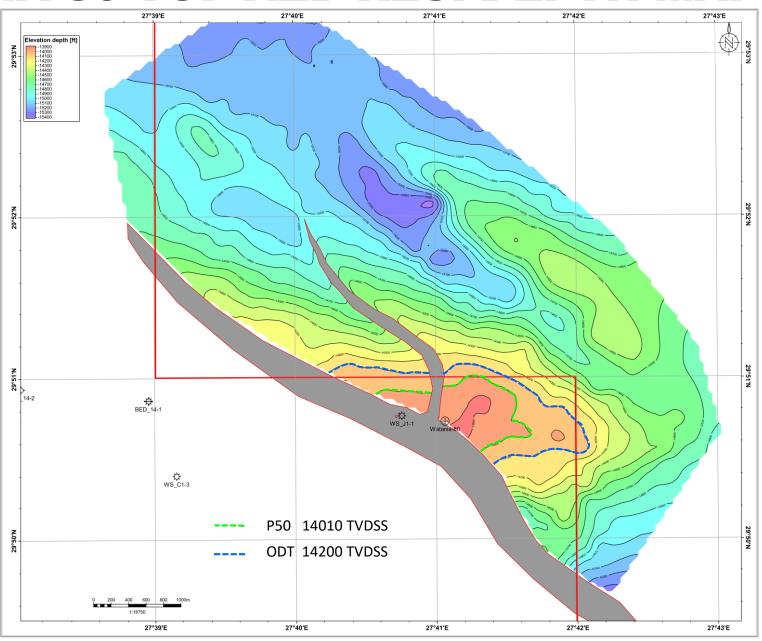




13780` md 77 Ft net pay, 50 Ft perforated, 10 % average porosity, 22% water saturation

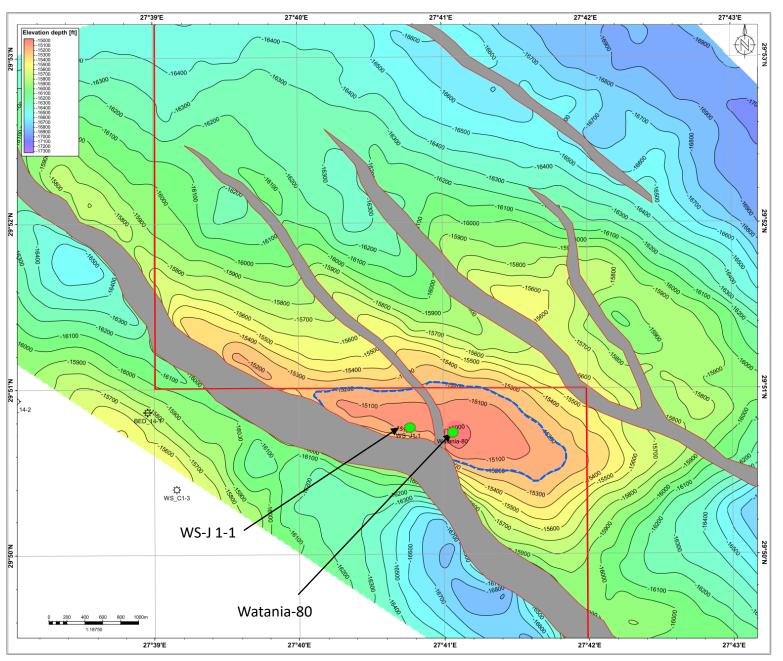
14860` md25 Ft net pay11 % porosity19% water saturation.

WATANIA-80 TOP AEB RES. DEPTH MAP





WATANIA-80 TOP U. SAFA RESERVOIR





Well showed communication with WS J1-1 and sharing ODT @ 15200 TVDSS

WATANIA-80 (AEB) INITIAL RESULTS



СНОСК	WHP	OIL	GAS	ВОЕ
32/64	3200	1000	2.5 mm	1500
56/64	3000	2300	5 mm	3150
64/64	2500	3700	10 mm	5400
128/64	500	6500	16 mm	9200

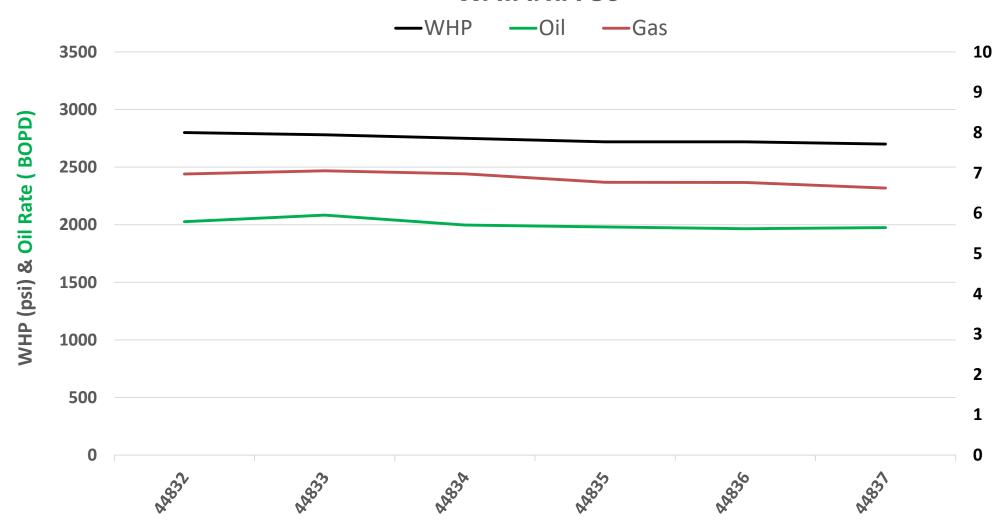
- Initial results during cleaning the well for few hours.
- API 46°
- Reservoir pressure 6480 PSI.

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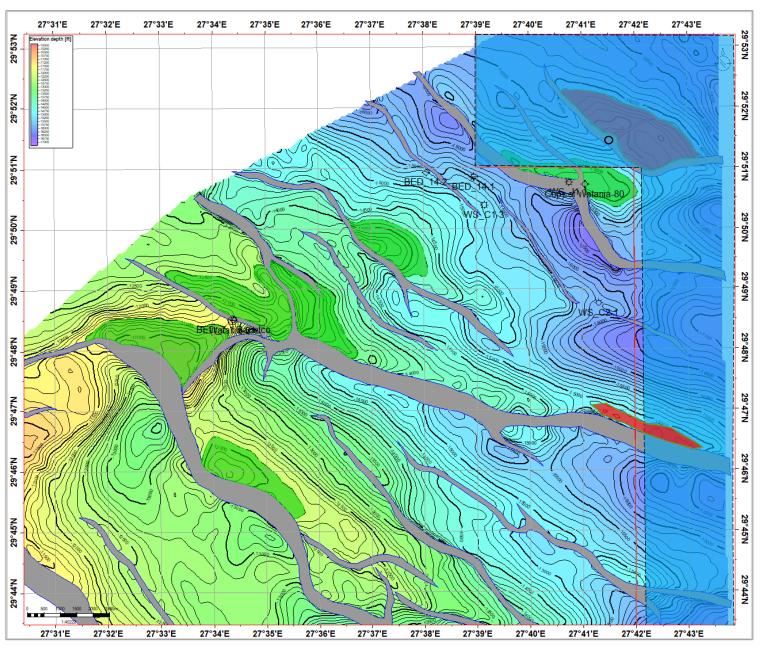
Gas Rate (MMSCFD)

WATANIA 80

WATANIA-80: PRODUCTION PROFILE



AEB W-80 AEB RESERVOIR LEADS





WATANIA-80 SUMMARY

- Watania-80 well drilled and bottomed in Jurassic Lower Safa formation.
- Well cost almost 3.5 MMUS\$ compared to offset well costed around 9 MMUS\$ Well drilled in 38 days (TD) compared to offset well in 99 days (TD).
- Well proven hydrocarbons in two different formations:
 - ✓ Jurassic Upper Safa (Gas condensate)
 - ✓ Bottom AEB (Oil with high 2500 GOR)
- Jurassic is showing communication with WS J1-1, but higher with 50 ft.
- AEB reservoir pay sands are not penetrated in WS J1-1 well and proves virgin pressure.
- Jurassic Upper Safa is not showing any extension outside block boundaries.
- AEB reservoir is showing a very minor extension outside block boundaries?
- Analogue structures with similar <u>fault throw (500-1000 feet</u>) and drags outside concession should be investigated both inside and outside concession boundary.
- Unlocking AEB in Abu El Gharadig requires :
 - Good seismic data quality / re-processing for vintage seismic data.
 - Detailed interpretation and well correlations.
 - Unconventional interpretation looking for shales.
 - Advanced fault seal analysis interpretation.



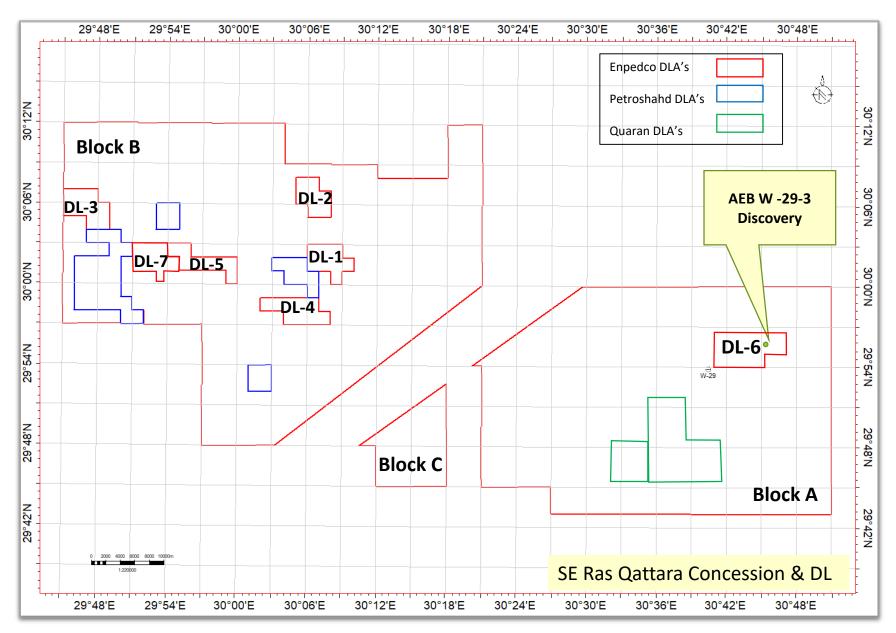




UNLOCKING THE POTENTIAL OF ALAM EL-BUIEB KATTANIYA INVERTED BASIN, WESTERN DESERT EGYPT

09/10/2022

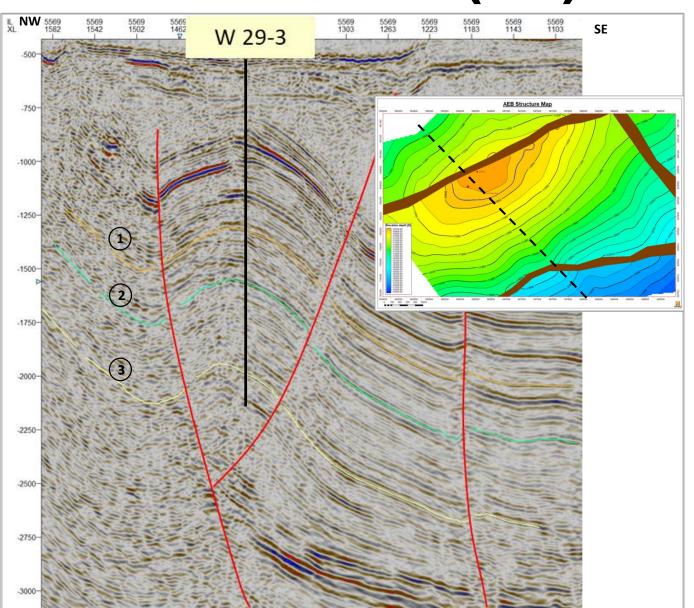
WATANIA-29-3 LOCATION MAP







WATANIA-29-3 SEISMIC INLINE (DIP)

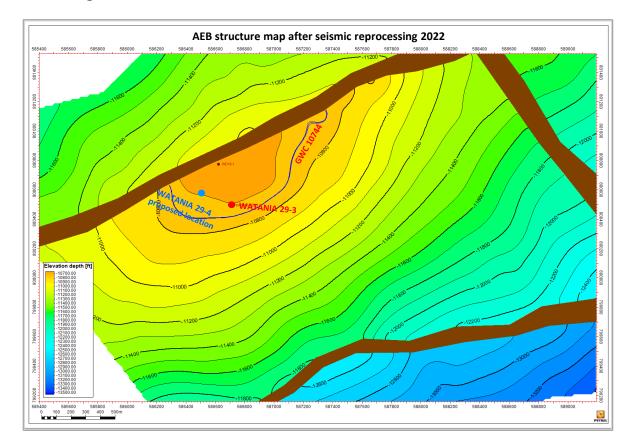


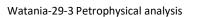


- 1 Top ARC
- 2 Top Bahariya
- 3 Top AEB

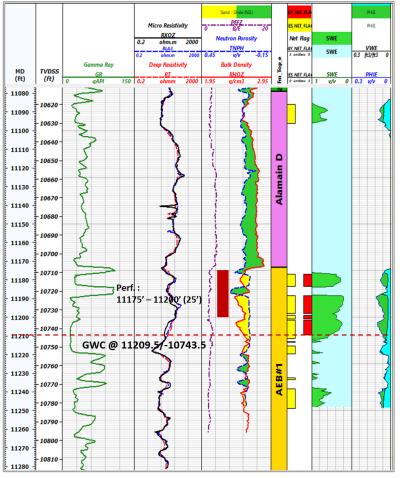
WATANIA-29-3 AEB RESERVOIR

- Watania 29-3 well drilled in October 2021.
- ➤ Watania 29-3 well encountered successive oil bearing zones all over the Cretaceous section from Bahariya (Upper & lower), Kharita down to AEB.
- ➤ Watania 29-3 is considered a play opener in the area unlocking gas potential presence in this area.
- ➤ Initial testing of AEB formation is 3.26 MMSCF/D with 60 STB/D condensate from 26' sand with average porosity 8 % and initial water saturation 29 %.
- > Proposed new well after seismic reprocessing 2022, slightly deviated to achieve multistacked targets well.









26 Ft net pay , 50 Ft perforated, PHIE = 8% , SW = 29%





THANKYOU