



**SOUND  
ENERGY** PLC

# **SIGNIFICANT UPSIDE POTENTIAL THROUGH EXPLORATION**

**GREATER  
TENDRARA,  
ANOUAL & SIDI  
MOKTAR PERMITS**







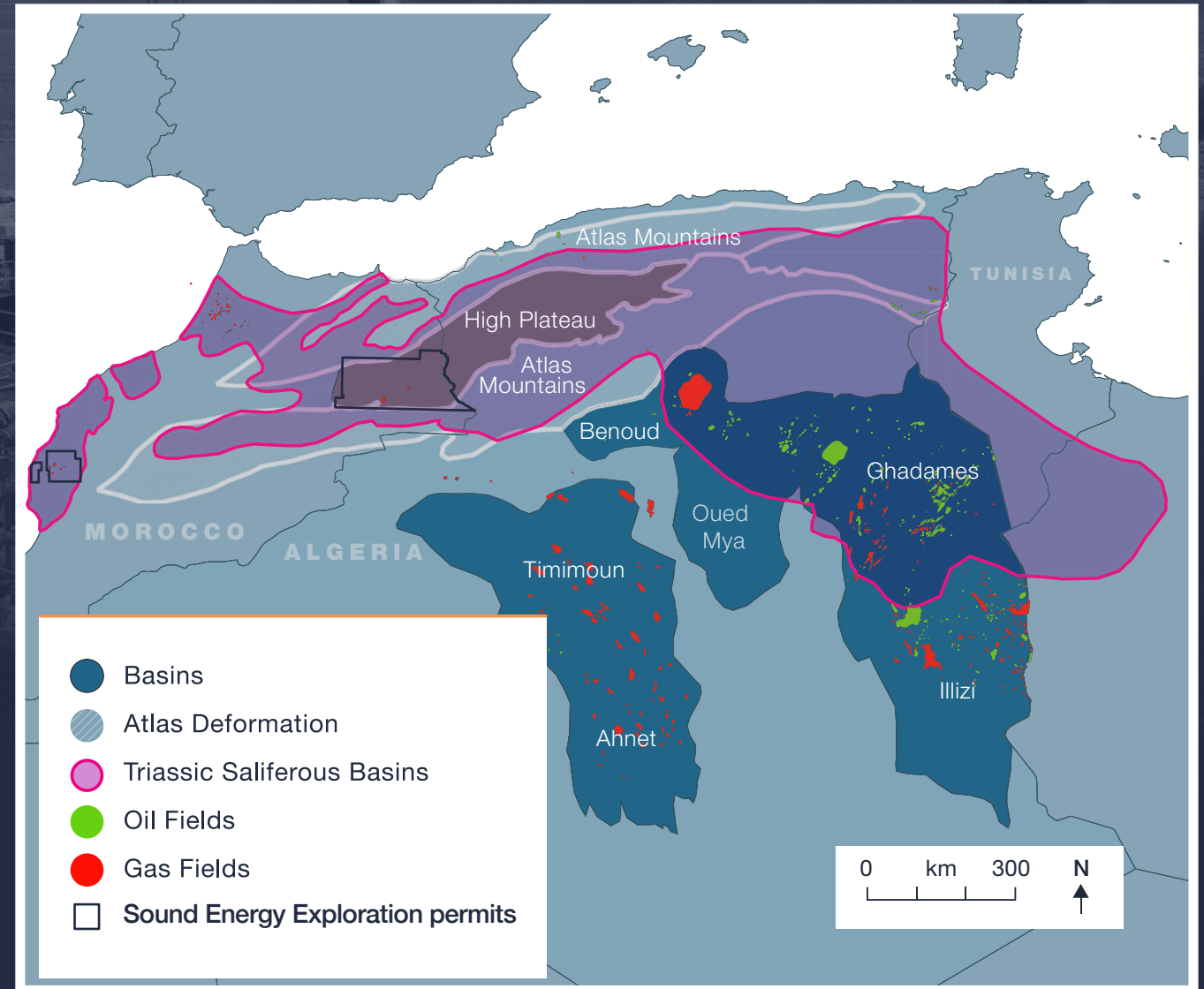
# EXTENDING ESTABLISHED NORTH AFRICA SUB-SALT PLAYS INTO MOROCCO

- Sound Energy is the largest onshore permit holder in Morocco, and operates a gas discovery in Tendara
- Focussed on developing overlooked, high potential, gas plays with 'running room'
- Continuity of the prolific and proven Algerian Triassic & Palaeozoic gas plays into Morocco
- Triassic salt 'super seal' present across our Moroccan assets, preserves this deeper petroleum system from the disruptive Atlantic and Alpine tectonic events
- Opportunity to access the overlooked, exploration potential with 28.35 Tcf<sup>1</sup> identified across all the licences beneath the Triassic salt
- Exploration potential alongside developing Tendara Production Concession infrastructure

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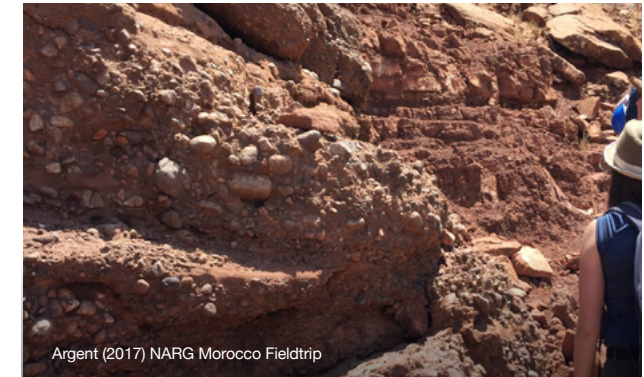
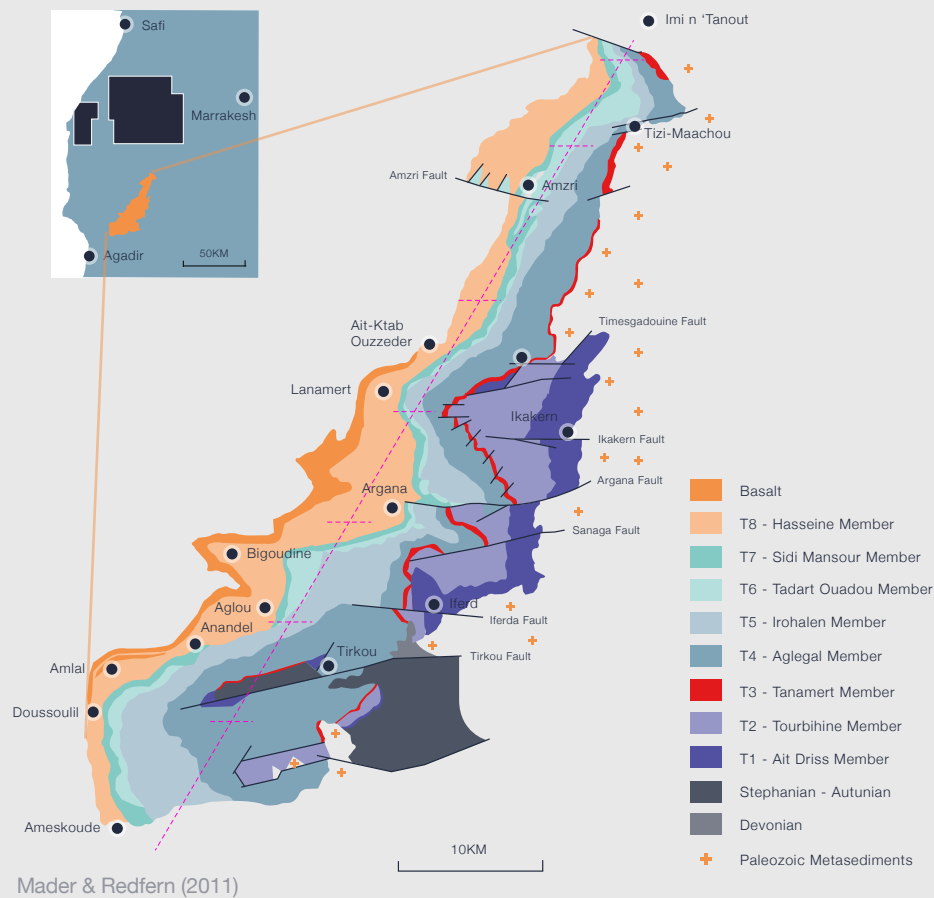
<sup>1</sup>Internal exploration potential estimates, unrisks original gas in place (gross)





# TRIASSIC RESERVOIRS EXPOSED IN THE ARGANA VALLEY

Dominantly alluvial and fluvial with some aeolian reservoirs, exposed at surface along the margins of the basin. These units are at a depth of ca. 2,500 - 3,000 m below the surface within the Sidi Moktar permits 50 kms to the north



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# SUB-SALT GAS EXPLORATION SURROUNDING DEVELOPMENT

## GREATER TENDRARA

- 8 years from October 2018

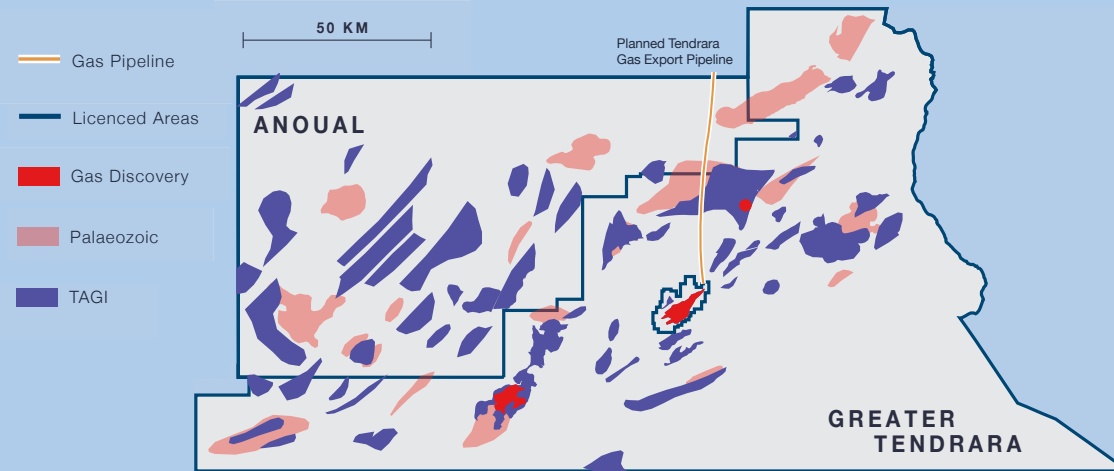
75% interest Operated	Exploration permit	14,411 km <sup>2</sup> 8 wells drilled	All work commitments completed. Next voluntary period commences mid September 2022 with a 1 well commitment before September 2024
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## ANOUAL

- 9 years from August 2017

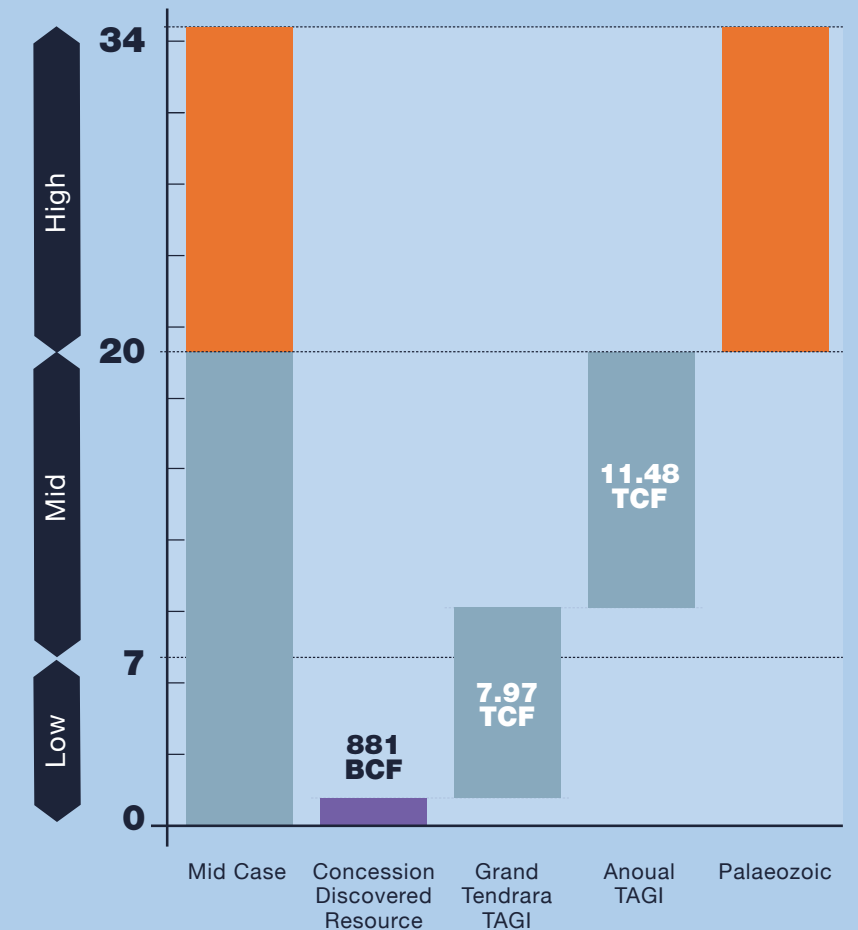
75% interest Operated	Exploration permit	8,873 km <sup>2</sup> 1 wells drilled	Drill 1 well committed before December 2021
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## MAP OF EXPLORATION CONCEPTS, LEADS AND PROSPECTS ACROSS THE PERMITS



## EXPLORATION POTENTIAL

Internal exploration potential estimates, unrisks original gas in place (gross)



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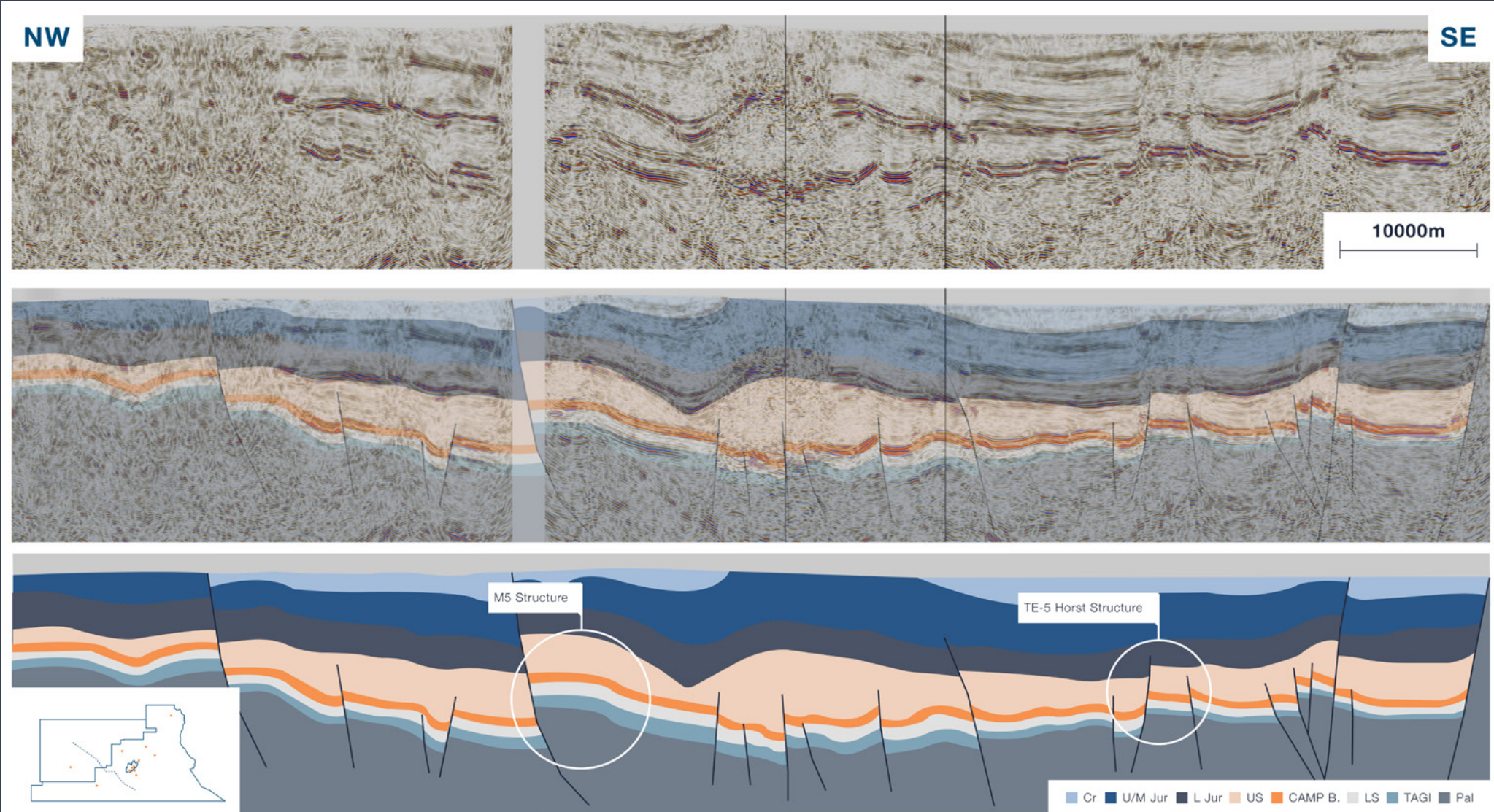




# GREATER TENDRARA AND ANOUAL SUBSURFACE OVERVIEW AT A GLANCE

- Sub-salt seismic imaging improved by 2017/18 Sound Energy geophysical surveys
- Numerous Triassic (TAGI reservoir) fault blocks remain undrilled beneath the extensive salt seal

Salt seal  
TAGI Reservoir  
Palaeozoic Gas Source



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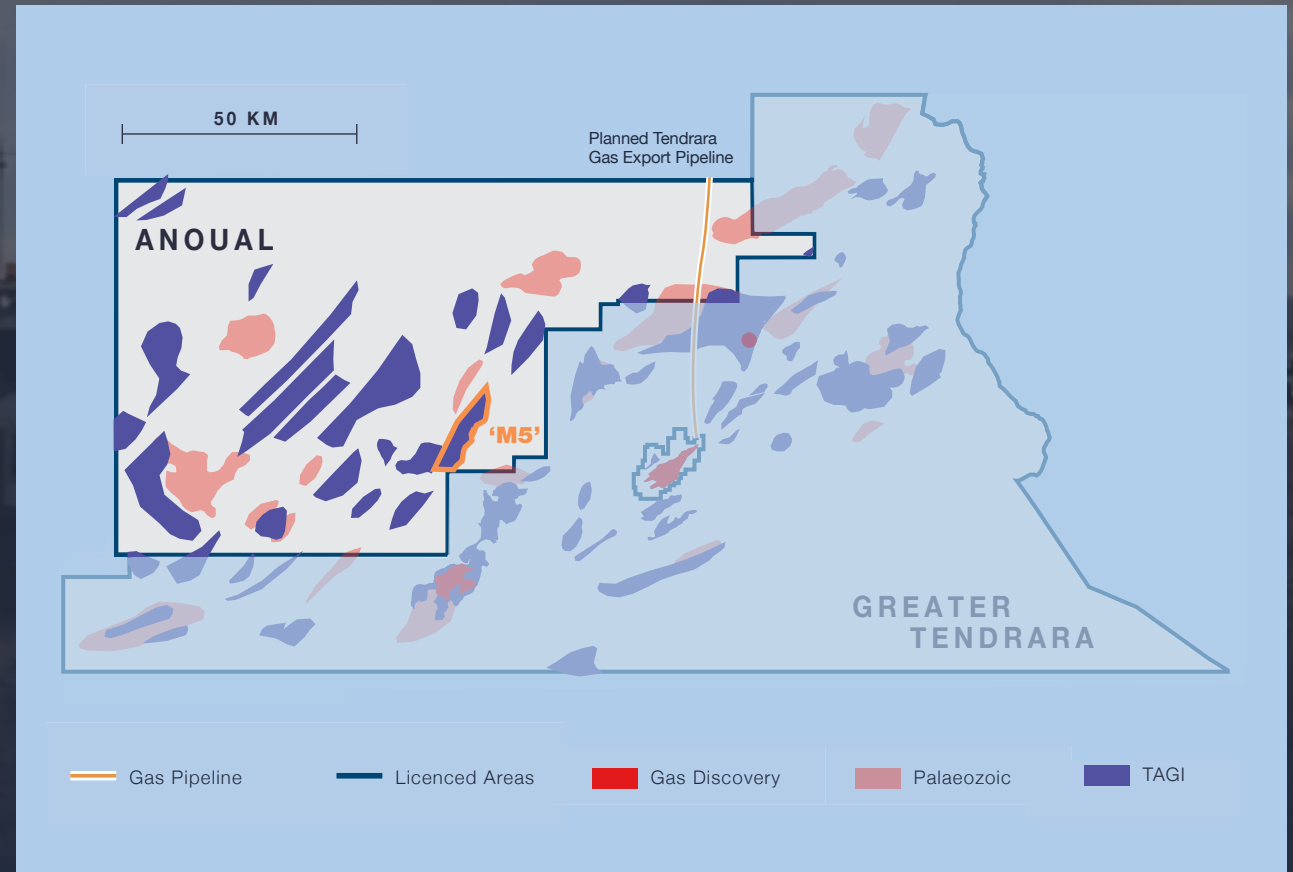




# OVERVIEW OF THE ONSHORE ANOUAL PERMIT

- Licence area 8,873 sq kms
- Located onshore High Plateau in Eastern Morocco, well documented Algerian Triassic and Palaeozoic petroleum systems extend across the border
- Sound 75% (operator), ONHYM 25%
- Committed geophysical surveys completed in 2018
- Exploration potential in the Triassic TAGI reservoir of 11.48 Tcf gross / 8.61 Tcf net (mid-case un-risked GIIP\*) identified in sub-salt concepts, leads and prospects
- 'M5' prospect matured for drilling, operational planning progressing.

\* Internal exploration potential estimates, unrisked original gas in place (gross)



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## PERMIT PERIODS AND COMMITMENTS

INITIAL PERIOD		1ST EXT	2ND EXT
 Surveys		 Surveys	 1 expl well
Aug '17		Dec '22	Aug '26
5 years 4 months		1 years 2 months	2 years 6 months

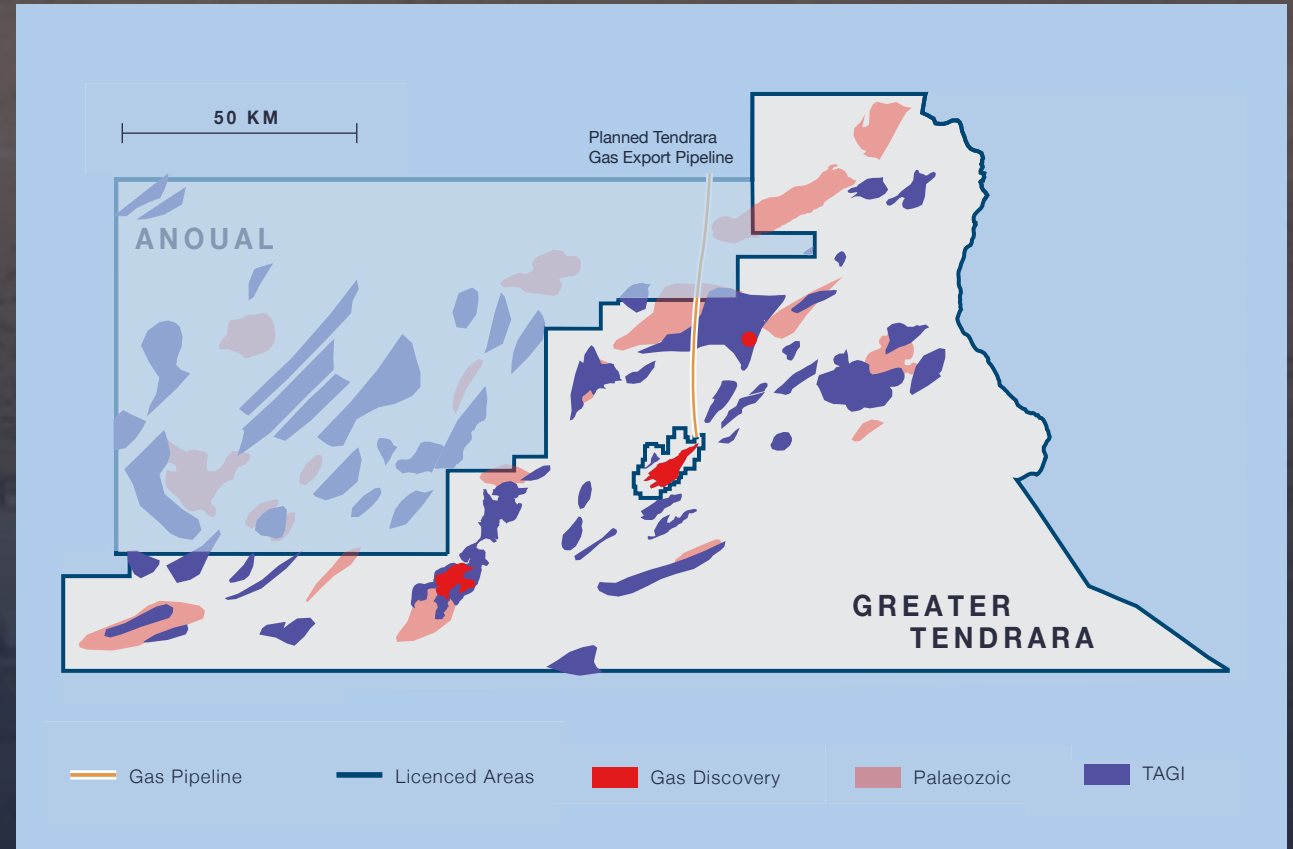




# OVERVIEW OF THE ONSHORE GREATER TENDRARA PERMIT

- Licence area 14,411 sq kms
- Located onshore High Plateau in Eastern Morocco, well documented Algerian Triassic and Palaeozoic petroleum systems extend across the border
- Sound 75% (operator), ONHYM 25%
- Surrounds the Tendrara Production Concession with the TE-5 Horst
- Exploration potential in the Triassic TAGI reservoir of 7.97 Tcf gross / 5.98 Tcf net (mid-case un-risked GIIP\*) identified in sub-salt concepts, leads and prospects
- Number of target available for near term drilling.

\* Internal exploration potential estimates, unrisked original gas in place (gross)

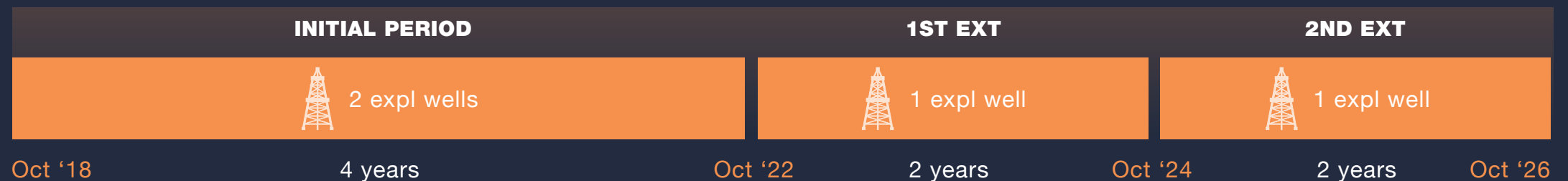


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## PERMIT PERIODS AND COMMITMENTS







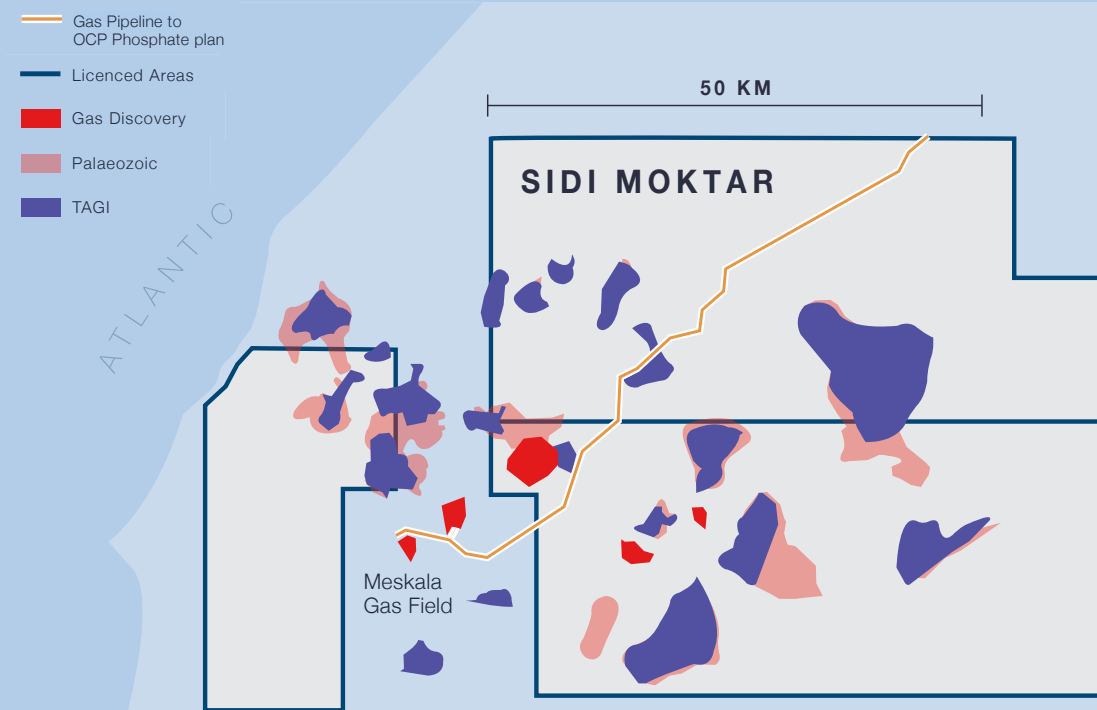
# FURTHER GAS EXPLORATION | SIGNIFICANT SUB-SALT POTENTIAL ON THE ATLANTIC MARGIN

## SIDI MOKTAR

- 10 years from April 2018

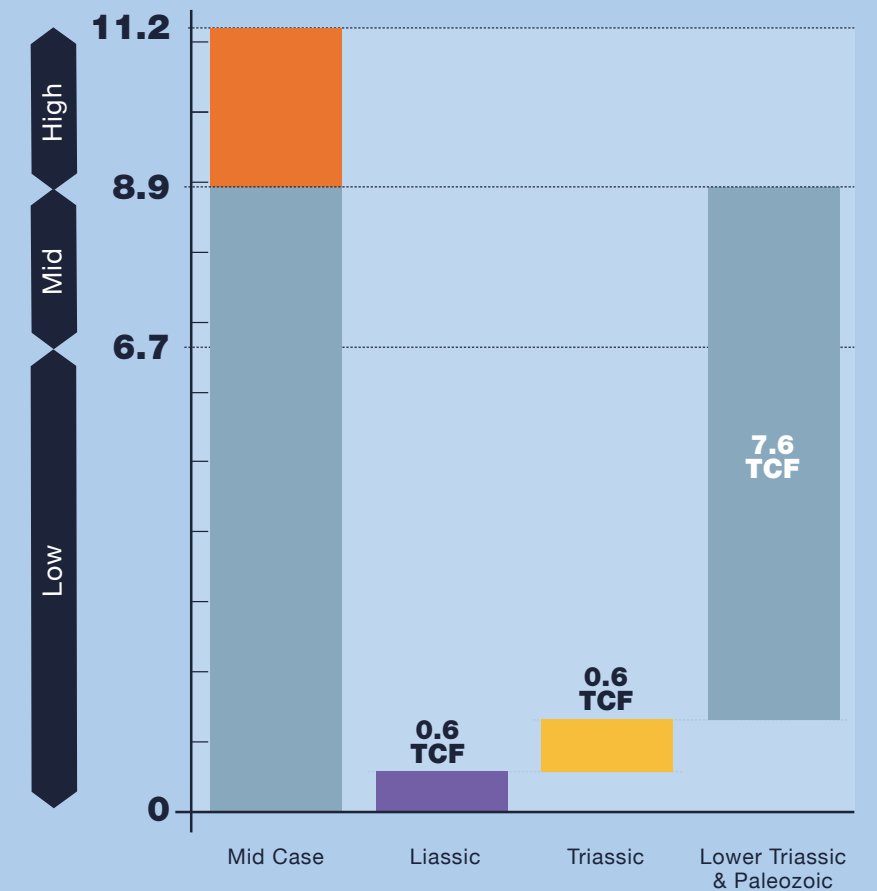
75% interest Operated	Exploration permit	4,712 km <sup>2</sup> 44 wells drilled	500 kms of 2D seismic & well abandonment before October 2022
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### MAP OF EXPLORATION CONCEPTS, LEADS AND PROSPECTS ACROSS THE PERMITS



## EXPLORATION POTENTIAL

Internal exploration potential estimates, unrisks original gas in place (gross)\*



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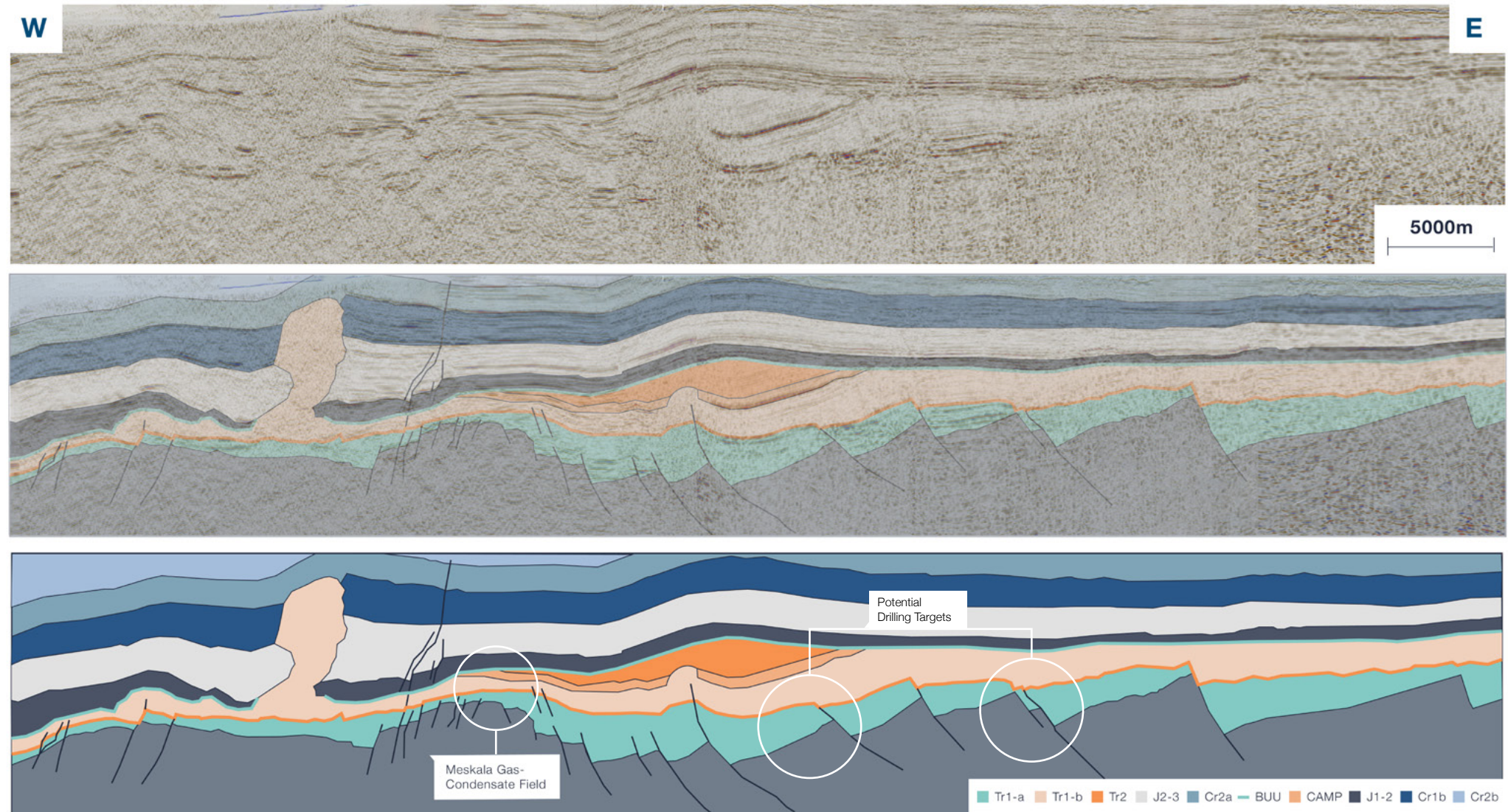
\*Internal exploration potential estimates, unrisks original gas in place (gross)





# SIDI MOKTAR SUBSURFACE OVERVIEW AT A GLANCE

- Deeper sub-salt plays are underexplored  
Around 60 historical exploration wells focussed on shallow objectives
- The few sub-salt tests were drilled on poor sub-salt seismic imaging



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From Finch (2018) MSc thesis, The impact of Tertiary folding and inversion tectonics on the prospectivity of the Sidi Moktar area, Essaouira Basin, Morocco

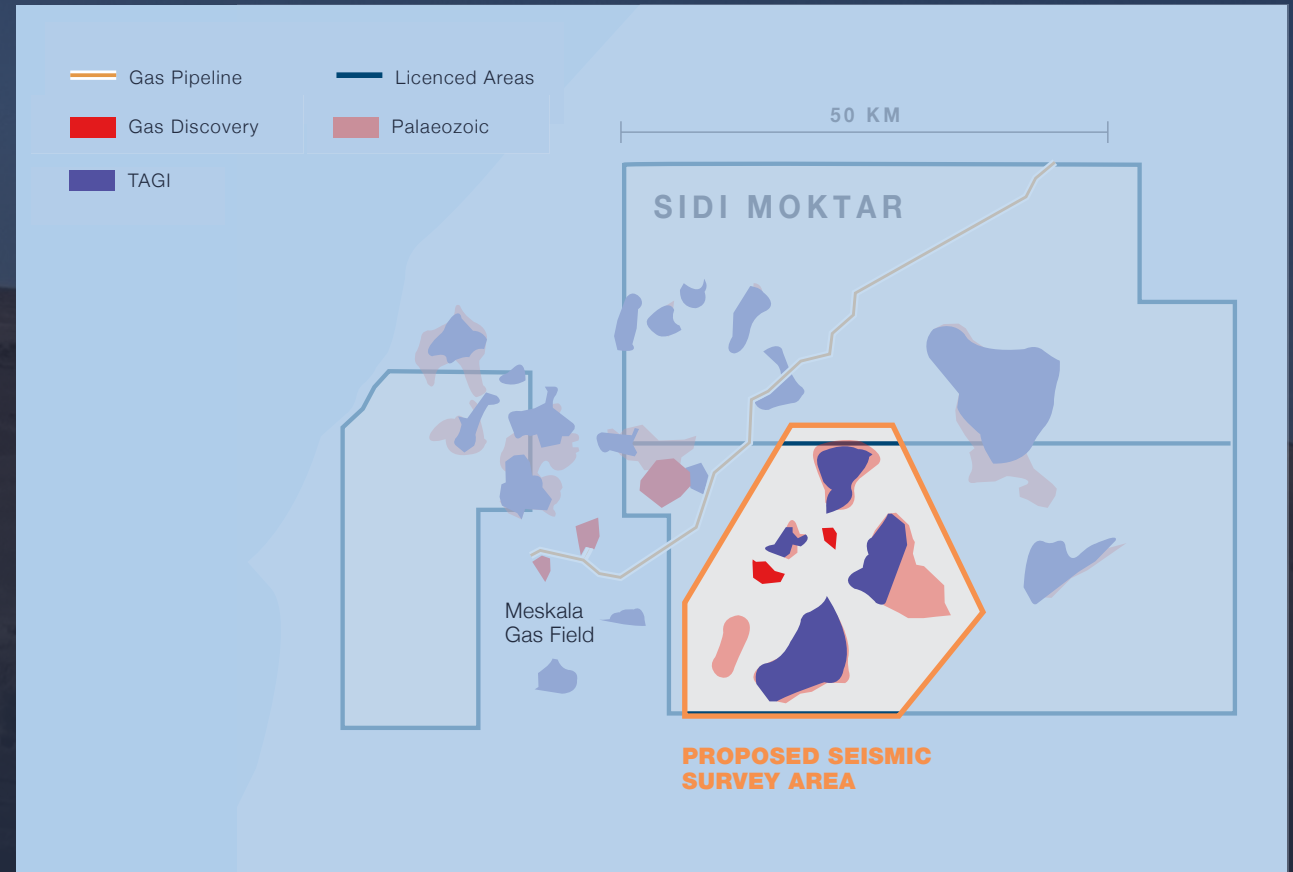




# OVERVIEW OF THE SIDI MOKTAR PERMIT

- Licence area 4,712 sq kms
- Located onshore Essaouira Basin, well documented offshore Mesozoic salt extends onshore
- Sound 75% (operator), ONHYM 25%
- Adjacent to the ‘play proving’ Meskala Gas Field, produces gas and condensate from a sub-salt Triassic reservoir
- Potential of 8.9 Tcf gross<sup>1</sup> (mid-case un-risked GIIP) identified in 25 sub-salt structural lead
- Our seismic work program has the potential to de-risk a number of these leads for near term drilling.

<sup>1</sup> Internal exploration potential estimates, unrisked original gas in place (gross)



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## PERMIT PERIODS AND COMMITMENTS

INITIAL PERIOD		1ST EXT		2ND EXT	
 500 kms of 2D seismic		 1 expl well		 1 expl well	
Apr '18	4 years 6 months	Oct '22	3 years	Oct '25	2 years 6 months Apr '28





For further information contact:

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