

GARAH Critical Screening Parameters					Source (Ref.list)	Comments	3002
Shale Name:		Bo Member in the Farsund Formation				Upper Jurassic to lower Cretaceous	REFERENCE LIST : 1. Michelsen, O., Nielsen, L.H., Johannessen, P.N., Andsbjerg, J. & Surlyk, F. 2003. Jurassic lithostratigraphy and stratigraphic development onshore and offshore Denmark. Geological Survey of Denmark and Greenland Bulletin 1, 147–216. 2. Ineson, J.R., Bojesen-Koefoed, J.A., Dybkjar, K. and Nielsen, L.H., 2003. Volgian–Ryazanian ‘hot shales’ of the Bo Member (Farsund Formation) in the Danish Central Graben, North Sea: stratigraphy, facies and geochemistry. Geological Survey of Denmark and Greenland Bulletin, 1, 403–436. 3. Petersen, H.I., Nytoft, H.P., Vosgerau, H., Andersen, C., Bojesen-Koefoed, J.A., Mathiesen, A., 2011. Source rock quality and maturity and oil types in the NW Danish Central Graben: implications for petroleum prospectivity evaluation in an Upper Jurassic sandstone play area. Geological Society, London, Petroleum Geology Conference series, 7, 95–111.
Country:		Denmark					
Age (Age):							
Age (Epoch):		Upper Jurassic			1		
Basin:		North Sea					
Chance of success parameters					Source (Ref.list)	Comments	
Mapping status		Good			2	Proven SR in North Sea Basin	
Sedimentary variability		Moderate					
Structural complexity		Moderate					
Available HC data		Moderate					
Proven source rock		Proven					
Maturity variability		Moderate					
Depth		Average					
Mineral composition		Poor					
Detailed parameter list					Source (Ref.list)	Comments	
1. Area (km2)		Min	Max	Mean	Distribution		
2. Thickness (gross, m)		15	50	30	triangular	1, 3	Average estimated
2a. Thickness (net, m)		15	45	20	triangular	1	
2b. Net/Gross (%)		90	100	95	triangular		
3. Depth (m)		1000	5000	2500	triangular		
4. Density (g/cm3)							
5. TOC (%)		3	15	6	triangular	2	Average estimated
6. Porosity (%)							
7. Maturity (%VR) or graptolite equivalent							
8. Reservoir pressure (psi)							
9. Reservoir Temperature (°C)							
10. Gas saturation (%) (Sg)							
11. Oil Saturation (%) So							
12. Gas generation mgHC/g TOC (Hydrogen index)		200	600	500	triangular	2	Average estimated
13. Kerogen type		I/II	II/III	II		2	trace type III and I
14. Sorption capacity VReq. - 1,9 % (mmol/g)							
15. Matrix permeability (nDarcy)							
16. Adsorbed gas storage capacity (scf/ton)							
17. Compressibility factor (z)							
18a. Bg - Gas formation volume factor							
18b. Bo - Oil formation volume factor							
19. Langmuir Pressure (pL, psi)							
20. Langmuir Volume (nL, scf/ton)							
21. Bulk mineral constituents XRD							
21a Total Clay content (%)							
Content of smectite							
Content of illite & Mica							
Content of Kaolinite							
21b Quartz-feldspars content (%)							
21c Carbonate content (%)							
22. Brittleness indicators							
22a Poisson's ratio							
22b Young's modulus							
22c other indicators							