

GARAH Critical Screening Parameters						Source (Ref.list)	Comments	3008
Shale Name:	Hot shale				1, 2		Bo Member, Clay deep to Berriasian to Lower Cretacious Entenschnabel	REFERENCE LIST : 1 . Inneson, 2003 2. Arfai & Lutz 2017 3. SPBA
Country:	Germany							
Age (Age):	Tithonian							
Age (Epoch):	Upper Jurassic							
Basin:	North Sea							
Chance of success parameters						Source (Ref.list)	Comments	
Mapping status	Moderate							
Sedimentary variability	Moderate							
Structural complexity	Moderate							
Available HC data	Moderate							
Proven source rock	Possible							
Maturity variability	Moderate							
Depth	Average							
Mineral composition	No data							
Detailed parameter list		Min	Max	Mean	Distribution	Source (Ref.list)	Comments	
1. Area (km2)		860	3500	1000	Normal		If possible provide distribution map	
Entenschnabel AU						2	GIS shape provided	
2. Thickness (gross, m)		5	80	25	Normal			
2a. Thickness (net, m)		5	30	15	Normal			
2b. Net/Gross (%)								
3. Depth (m)		1500	4000	2800	Normal			
4. Density (g/cm3)		2,3	2,5	2,4	Normal	3D BSM		
5. TOC (%)		3	8,4	5	Normal			
6. Porosity (%)								
7. Maturity (%VR) or graptolite equivalent		0,4	1,2	0,6	Normal			
8. Reservoir pressure (psi)								
9. Reservoir Temperature (°C)		80	160	100	Normal			
10. Gas saturation (%) (Sg)								
11. Oil Saturation (%) (So)								
12. Gas generation mgHC/g TOC (Hydrogen index)		400	600	500	Normal			
13. Kerogen type				I-II				
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 (%)								