

GARAH Critical Screening Parameters					Source (Ref.list)	Comments	3007			
Shale Name:	Posidonia shale						REFERENCE LIST : 1 . SPBA 2. Grassmann, S., Cramer, B., Delisle, G., Messner, J., Winsemann, J., 2005. Geological history and petroleum system of the Mittelplate oil field, Northern Germany. International Journal of Earth Sciences 94, 979-989 doi: 10.1007/s00531-005-0018-x.			
Country:	Germany									
Age (Age):	Toarcian									
Age (Epoch):	Lower Jurassic									
Basin:	North Sea									
Chance of success parameters					Source (Ref.list)	Comments				
Mapping status	Moderate					not in Entenschnabel;				
Sedimentary variability	Moderate									
Structural complexity	Moderate									
Available HC data	Moderate									
Proven source rock	Proven									
Maturity variability	Moderate					based on analogue onshore data				
Depth	Average									
Mineral composition	Poor									
Detailed parameter list					Min	Max	Mean	Distribution	Source (Ref.list)	Comments
1. Area (km2)										
Mittelplate AU					810	900	860	Triangular		distribution map see SPBA; min/max +/- 10% of mean assumed
Entenschnabel AU					40	830	200	Triangular	3D BPSM	distribution map provided
2. Thickness (gross, m)					20	50	35	Normal	Niko Study	thickness map not
2a. Thickness (net, m)					20	50	35	Normal	assumed	
2b. Net/Gross (%)					100	100	100	Uniform	assumed	
3. Depth (m)										
Mittelplate AU					1000	4500	2000	Normal	Niko Study	no depth map
Entenschnabel AU					2200	5000	3500	Normal	3D BPSM	depth map provided
4. Density (g/cm3)					2,2	2,6	2,4		3D BPSM	
5. TOC (%)					1	16	4,3	Normal	Niko study	If possible provide map
6. Porosity (%)					6	22	11	Normal	3D BPSM	skewed normal distribution
7. Maturity (%VR) or graptolite equivalent					0,6	2,3	1,1	Normal	3D BPSM	If possible provide map
8. Reservoir pressure (psi)					./.	./.	./.			
9. Reservoir Temperature (°C)										
Entenschnabel AU					100	200	150	Uniform	3D BPSM	
10. Gas saturation (%) (Sg)										
11. Oil Saturation (%) (So)										
12. Gas generation mgHC/g TOC (Hydrogen index)					125	600	250	Normal		skewed 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)							1.290		Niko Study	8.9 in Mpa
20. Langmuir Volume (nL, scf/ton)									Niko Study	4,8 m³/t
21. Bulk mineral constituents XRD										
21a Total Clay content (%)					30	80	50	Normal	Niko study	
Content of smectite										
Content of Illite & Mica										
Content of Kaolinite										
21b Quartz-feldspars content (%)					10	40	20	Normal	Niko study	
21c Carbonate content (%)					0	60	30	Normal	Niko studv	