

GARAH Critical Screening Parameters					Source (Ref.list)	Comments	3009					
Shale Name:		Geverik Member					REFERENCE LIST : 1 . Bergen, F. van, Zijp, M.H.A.A., Nelskamp, S. and Kombrink, H. [2013] Shale gas evaluation of the Early Jurassic Posidonia Shale Formation and the Carboniferous Epen Formation in the Netherlands. AAPG Hedberg Memoir, 103, 1–24. 2. Bouw, S. and Lutgert, J. [2012] Shale Plays in The Netherlands. SPE/EAGE European Unconventional Resources Conference and Exhibition, SPE 152644. 3. Zijp, M.H.A.A. Nelskamp, S.N., Schavemaker, Y.A., ten Veen, J.H., ter Heege, J.H. [2013] Multidisciplinary Approach for Detailed Characterization of Shale Gas Reservoirs, a Netherlands Showcase. Offshore Technology Conference, Brasil, OTC-2483-MS 4. Verreussel, R.M.C.H., Zijp, M.H.A.A., S. Nelskamp, L. Wasch, G. de Bruin, J. ter Heege and J. ten Veen. 2013. Pay-zone identification workflow for shale gas in the Posidonia Shale Formation, the Netherlands, First Break Volume 31, February 2013					
Country:		Netherlands										
Age (Age):		Serpukovian										
Age (Epoch):		Mississippian										
Basin:		North Sea										
Chance of success parameters					Source (Ref.list)	Comments						
Mapping status		Moderate				see maturity map see depth map						
Sedimentary variability		Moderate										
Structural complexity		Moderate										
Available HC data		Moderate										
Proven source rock		Unknown										
Maturity variability		High										
Depth		Deep										
Mineral composition		Favourable			3							
Detailed parameter list					Min	Max	Mean	Distribution	Source (Ref.list)	Comments		
1. Area (km2)							59050	Normal			see depth map	
2. Thickness (gross, m)											If possible provide thickness map	
2a. Thickness (net, m)					40	80	50	Normal	6			
2b. Net/Gross (%)							70					
3. Depth (m)					9935	29	5658	Normal			see depth map	
4. Density (g/cm3)					2,63	2,77	2,71	Normal	3			
5. TOC (%)					1	9	2	Normal	1,2,4		If possible provide map	
6. Porosity (%)					1	9	1,5	Normal	1,2			
7. Maturity (%VR) or graptolite equivalent					0,6	4,7	3,3	Normal			see map	
											Mpa based on trend from measured data in overlying formation, calculated for respective formation depth	
8. Reservoir pressure (psi)					7	106	63	Normal	14			
								Normal	13		average geothermal gradient of 31,3 C/km onshore	
9. Reservoir Temperature (°C)												
10. Gas saturation (%) (Sg)					20	50	20	Normal	1,2			
11. Oil Saturation (%) (So)												
12. Gas generation mgHC/g TOC (Hydrogen index)												
13. Kerogen type							Type II		1,4			
14. Sorption capacity VReq. - 1,9 % (mmol/g)												
15. Matrix permeability (nDarcy)					0,9	680			2			
16. Adsorbed gas storage capacity (scf/ton)							33		2			
17. Compressibility factor (z)												
18a. Bg - Gas formation volume factor							212		1			
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 (%)							5		3			
Content of smectite												
Content of Illite & Mica												
Content of Kaolinite												
21b Quartz-feldspars content (%)							69		3			
21c Carbonate content (%)							26		3			