

NATURAL GAS ACCUMULATION

COMPOSITION OF GROUNDWATER	NO GAS AREA	POOR GAS AREA	RICH GAS AREA
Ph (Quaternary Tertiary)	= 7	= 7	< 7 < 7
free CO ₂ (Quaternary)	+(< 50 mg/l)	++(50-100 mg/l)	+++(> 100 mg/l)
HCO ₃ ⁻	+(< 100 mg/l)	++(100-200 mg/l)	+++(> 200 mg/l)
NH ₄ ⁺	1 mg/l	1-2 mg/l	> 2 mg/l
NO ₃ ⁻	++	+	-
SO ₄ ²⁻	+++	+	-
NO ₃ ⁻	-	+	-
P (fresh water sediments)	-	+	+++(> 0.3 mg/l)
KMnO ₄ cons.	+	++	+++(> 50 mg/l)
FE ³⁺	-∫+	+	+++
Dissolved O ₂	2-8 ml/l	0.0-0.2 ml/l	0.2-0.5 ml/l
Dissolved N ₂	14-16 ml/l	20 ml/l	1-5 ml/l
Dissolved CH ₄	0.0 ml/l	∫10 ml/l	> 20 ml/l
Dissolved Ar	+++	++	+
H ₂ S	-	+++	+
Cl - (marine sediments)	< 2 g/l	2-5 g/l	> 5 g/l
1 - (marine sediments)	+	++	++++
1 -/Cl - (marine sediments)	+	++	++++

NATURAL GAS ACCUMULATION

COMPOSITION OF GAS	NO GAS AREA	POOR GAS AREA	RICH GAS AREA
CH ₄ (vol. %)	-	+	+++(> 80%)
N ₂ +++++	++	+	+++++(> 10%)
CO ₂ (Quaternary Tertiary)	+	++	+
N ₂ /Ar	+++++++		+++
He/N ₂	+	++	?
H ₂	?	?	++
CnHm	?	+	