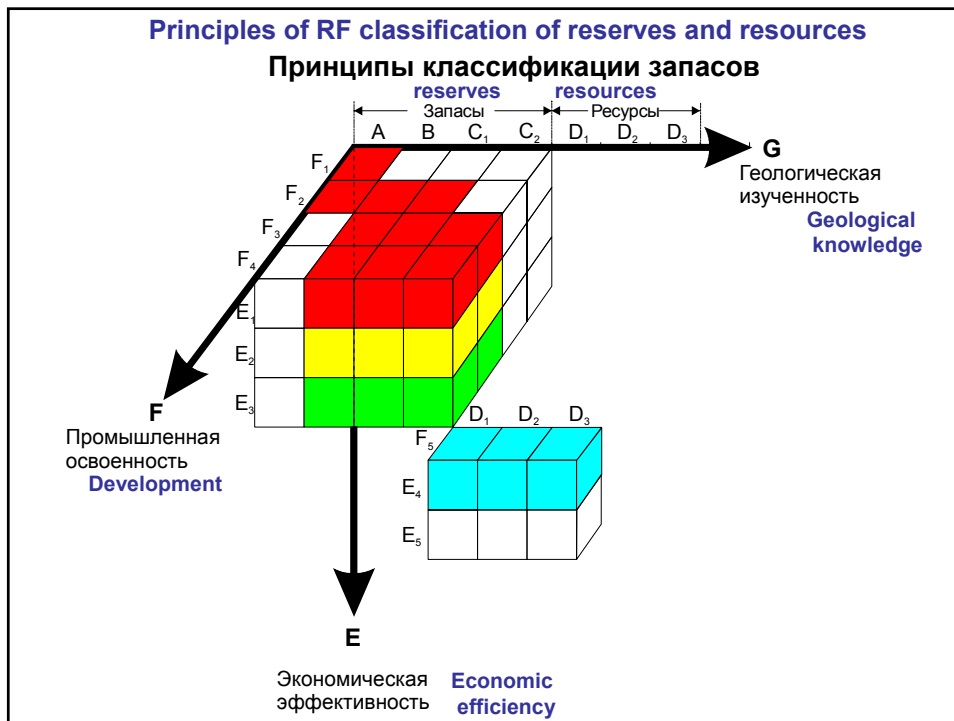


Alexander Gert

New Russian Classification – Approximation To The International Standards

Novosibirsk, Russia



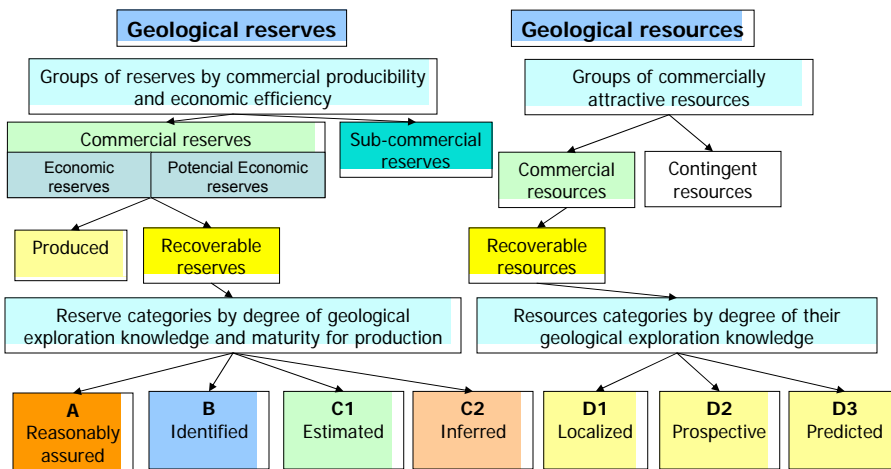
New in classification

- Commercial
 - Reserves $NPV > 0$
 - Resources $EMV = NPV * p - Z*(1-p) > 0$

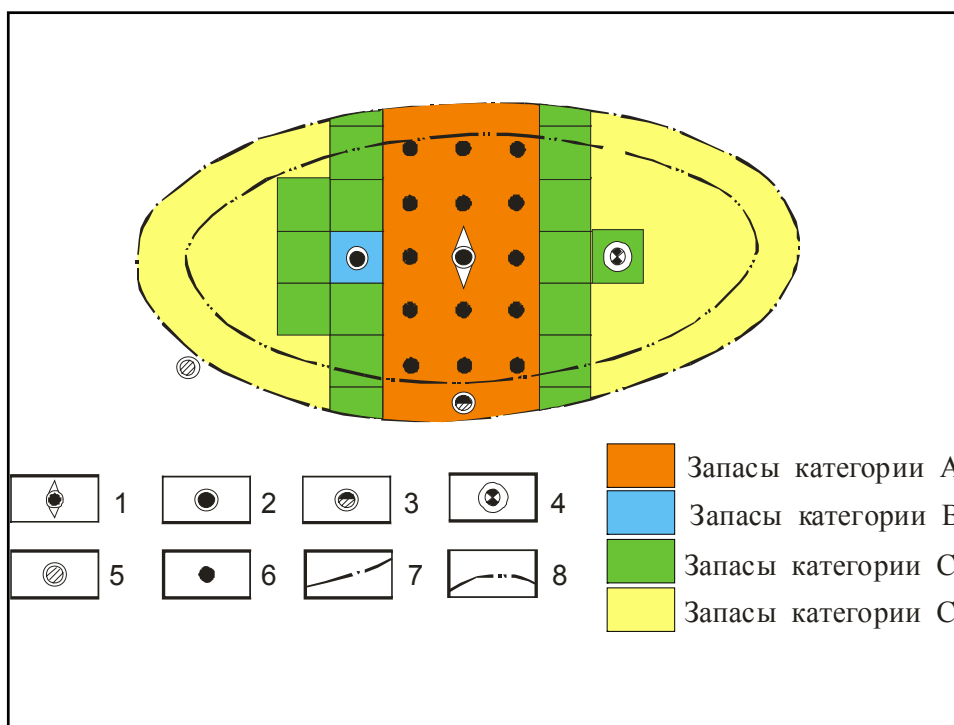
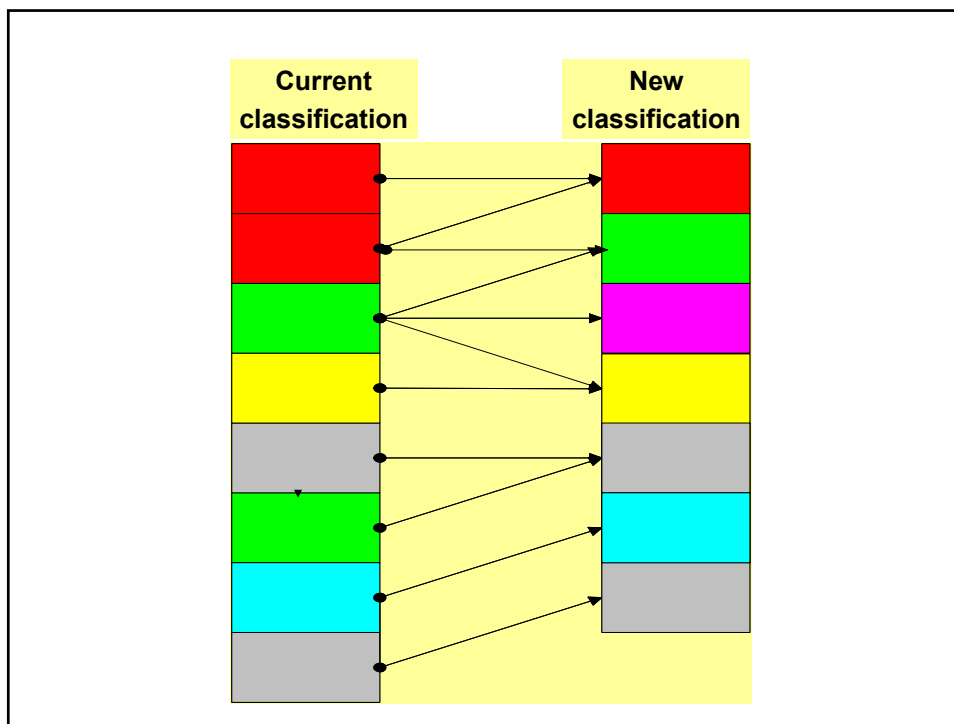
- Recoverable reserves } volume with $NPV > 0$
 Recoverable resources } $EMV > 0$

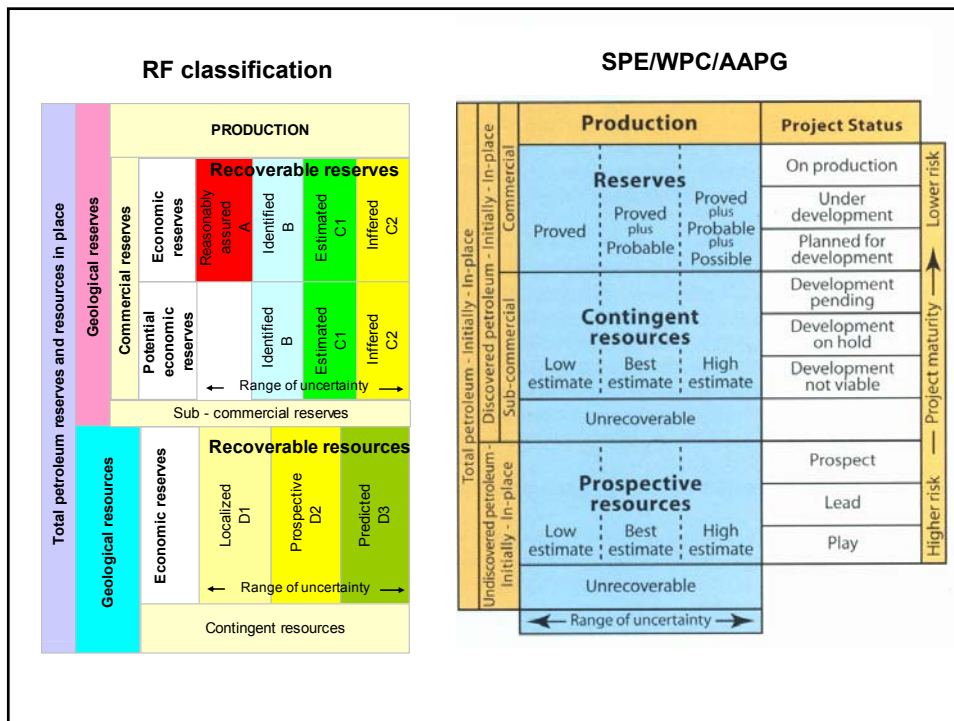
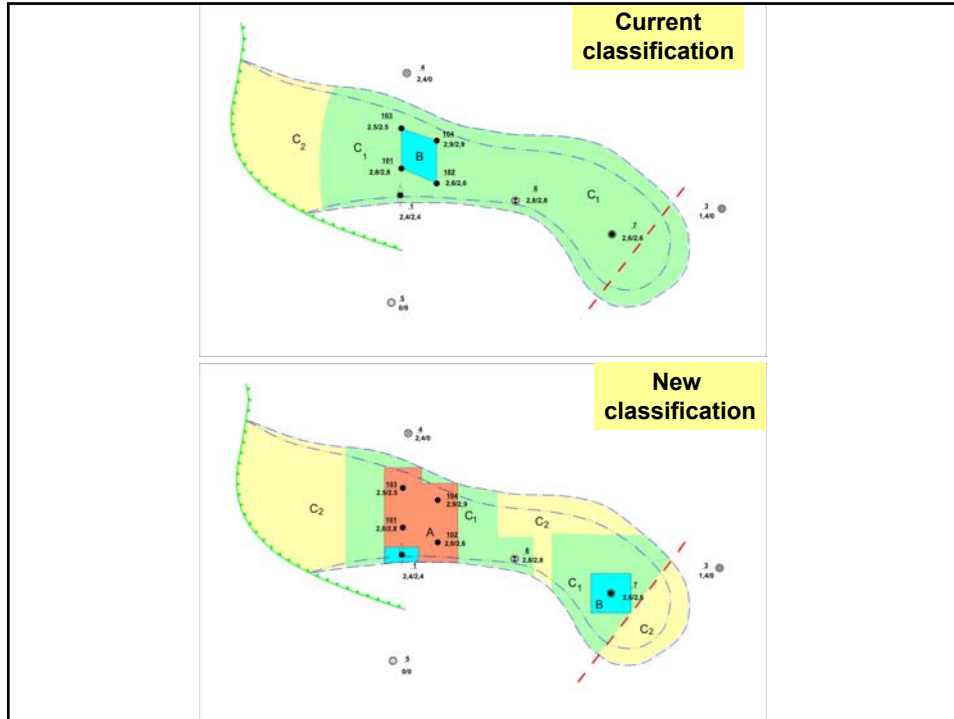
- More precise quantity A, B, C1, C2

RF Classification of Reserves and Resources

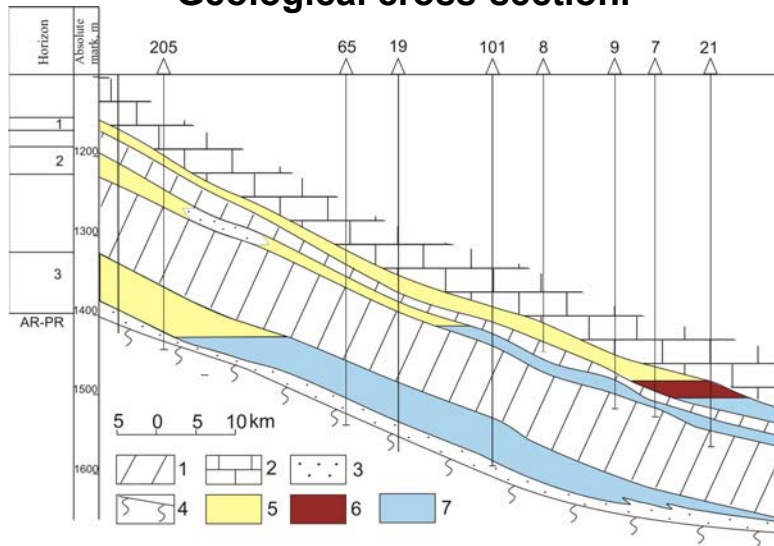


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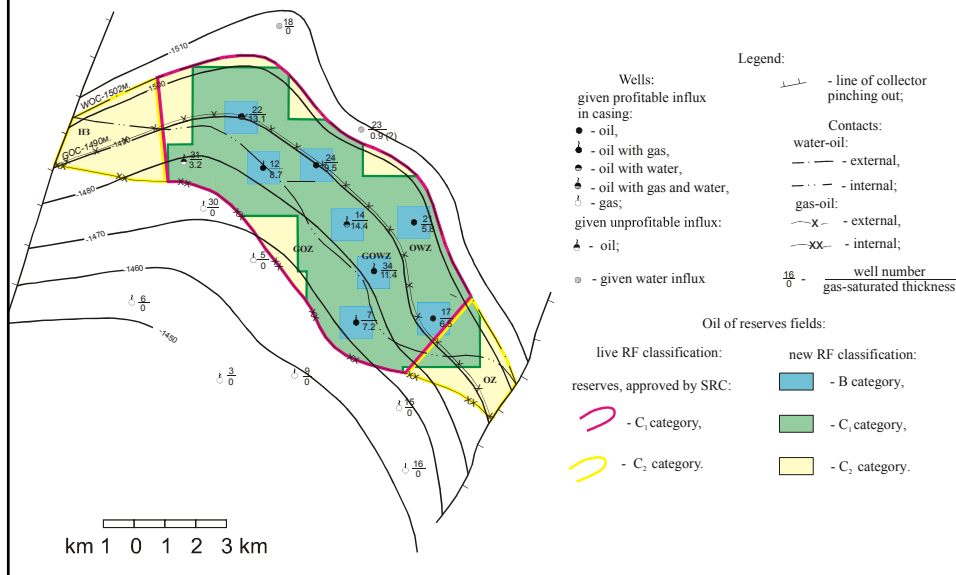


Eastern Siberia field. Geological cross-section.

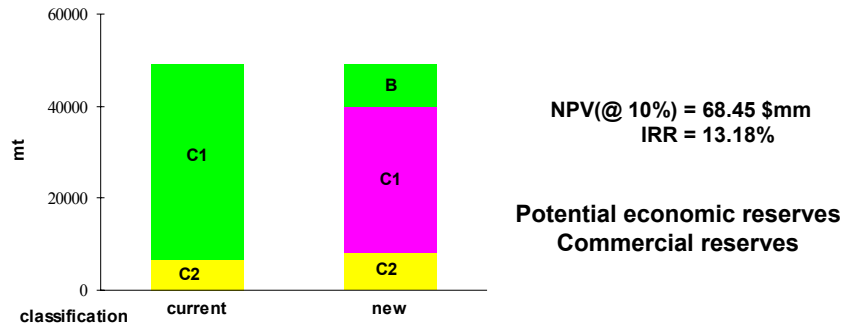


Impermeable rocks: 1- mudstone, 2 - mainly carbonate, 3 - sandstone, 4 - crystalline basement;
sandstone saturation: 5 - gas, 6 - oil, 7 - water.

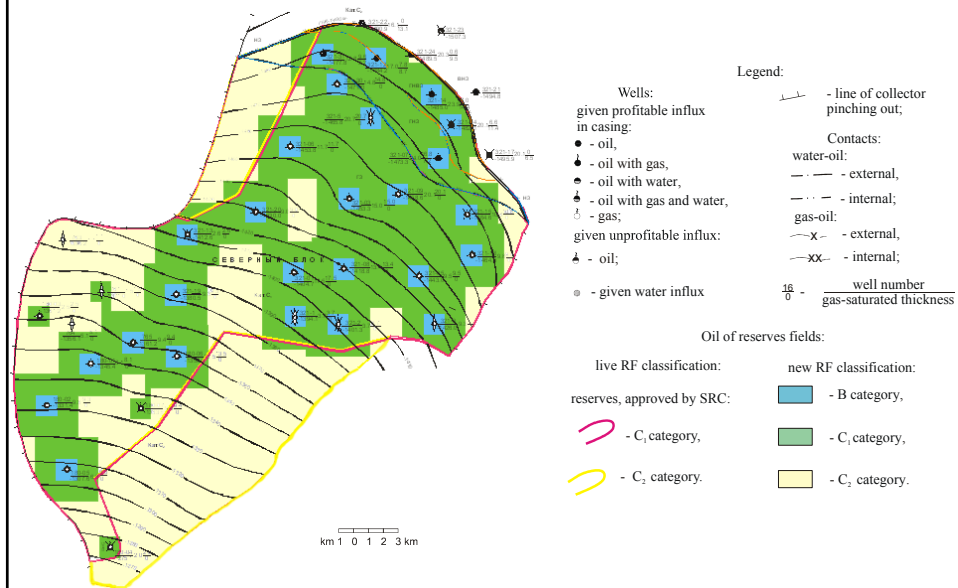
Eastern Siberia oil and gas field. Comparison of estimated oil reserves by current and new RF classification

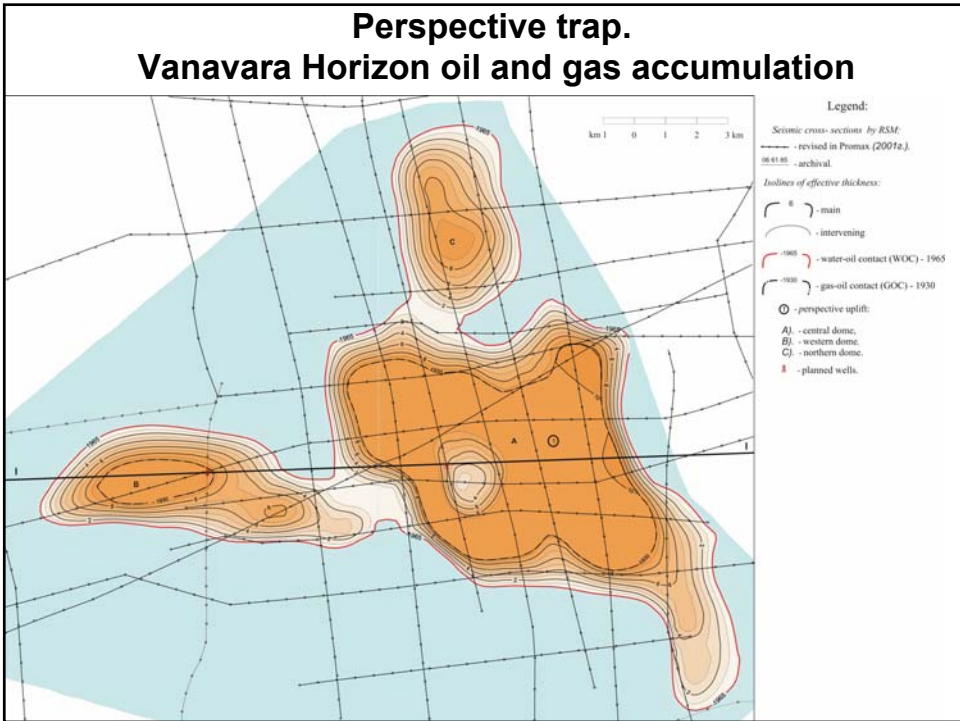
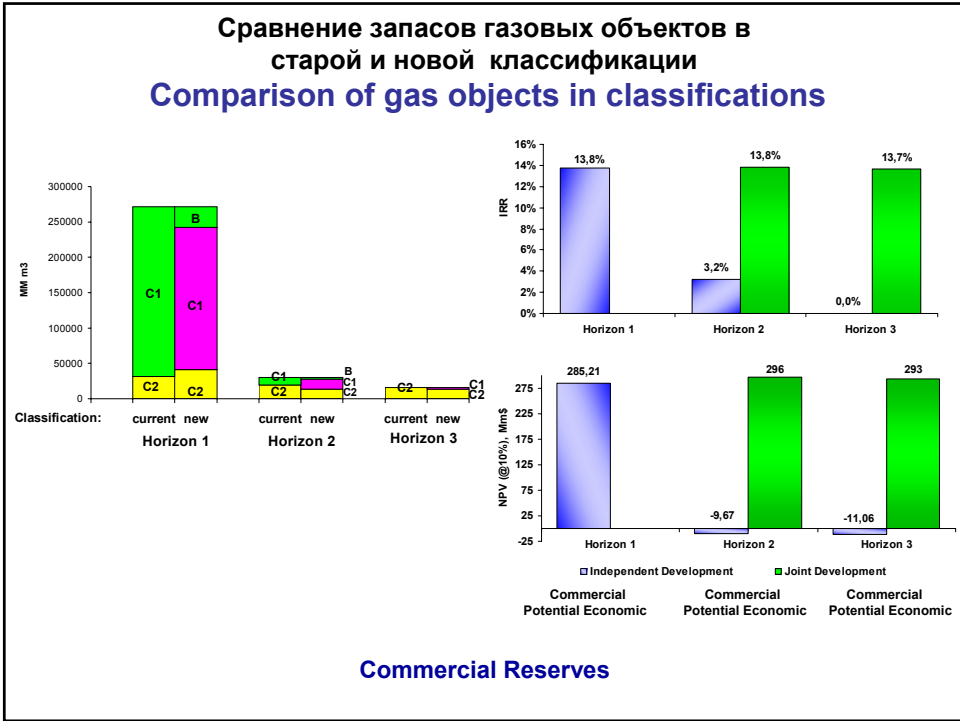


Сравнение запасов нефтяного объекта в старой и новой классификации Classification comparison for oil object

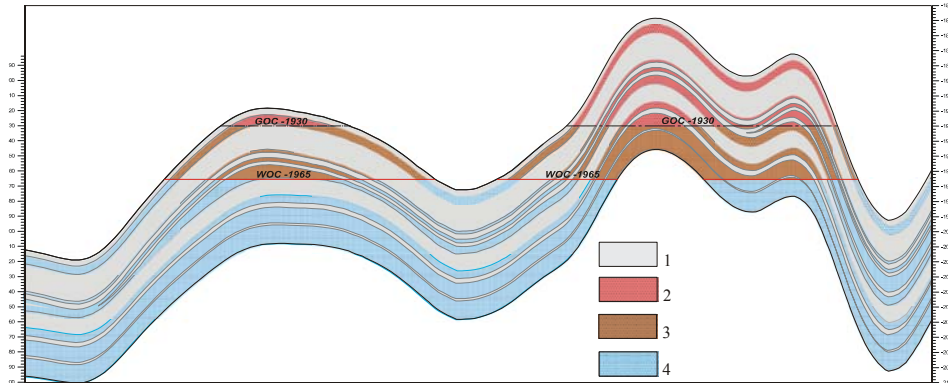


Eastern Siberia oil and gas field. Comparison of estimated gas reserves by current and new RF classification



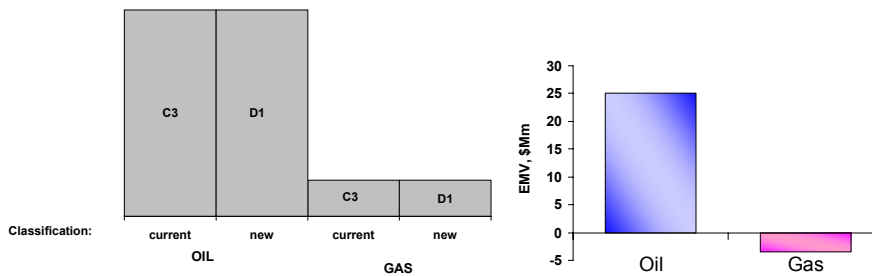


Perspective trap. Geological cross-section of sand stone Horizon oil and gas accumulation

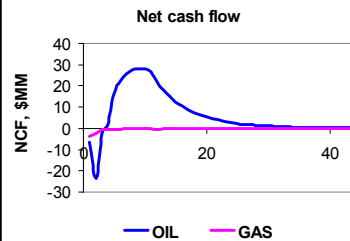


1 - argillaceous deposits of sand stone Formation, 2 - gas-saturated sandstone of sand stone Formation, 3 - oil-saturated sandstone of sand stone Formation, 4 - water-saturated sand stone of sand stone Formation.

Сравнение нефтегазовых объектов перспективной ловушки Comparison of oil & gas objects of prospective trap



	Oil	Gas
Exploration cost (Z), \$mm	22.11	0
NPV, \$mm	72.4	-6.96
Probability of success (p), %	50%	50%
Expected Monetary Value (EMV), \$mm	25.15	-3.48
EMV = NPV * p - Z*(1-p)		



Classification comparison

Object	Classification				
	current	RF		UNFC	SPEWPCIAAPG
			new		
Field reserves:					
<i>Oil</i>		Commercial reserves	E2- potential economic	Undeveloped	
		Potential economic reserves	F2 - contingent development project	Justified for Development	
	C1+C2	B+C1+C2	G1+G2+G3	Proved + probable reserves	
<i>Gas:</i> Horizon 1		Commercial reserves	E2- potential economic	Development Unclarified or on Hold	
		Potential economic reserves	F2 - contingent development project		
	C1+C2	B+C1+C2	G1+G2+G3	Contingent resources	
Horizon 2		Commercial reserves	E2- potential economic	Development Unclarified or on Hold	
		Potential economic reserves	F2 - contingent development project		
	C1+C2	B+C1+C2	G1+G2+G3	Contingent resources	
Horizon 3		Commercial reserves	E2- potential economic	Development Unclarified or on Hold	
		Potential economic reserves	F2 - contingent development project		
	C1+C2	C1+C2	G2+G3	Contingent resources	
Resources:					
<i>Oil</i>		Commercial resources	E3- intrinsically economic F3 - project undefined	Prospect	
	C3	D1	G4	Prospective resources	
		Commercial resources	E3- intrinsically economic F3 - project undefined	Prospect	
<i>Gas</i>	C3	D1	G4	Prospective resources	

Спасибо за внимание
Thank you for your attention