

Figure 4.--Gas hydrate assessment data form used to estimate the volume of natural gas trapped within a gas hydrate play. S3 = Cumulative microbial hydrocarbon source probability, GS = Hydrocarbon source play attribute.

Attribute		Probability of favorable		Comments				
Play Attrib.	Microbial hydrocarbon source (S1)	S1	S3	GS	S1*S2=S3, if S3=1, then GS=1  If S4=1, then GS=1  Use the > value of S3 or S4			
	Microbial source sediment thickness (S2)	S2						
	Thermogenic hydrocarbon source (S4)	S4						
	Timing (T)		T					
	Migration (M)							
	Potential reservoir facies (R)		R					
	Marginal play probability (GS*T*M*R=MP)		MP					
Prosp. Attrib.	Trapping mechanism (TM)		TM					
	Effective porosity (>3%) (P)		P					
	Hydrocarbon accumulation (C)		C					
	Conditional deposit probability (TM*P*C=CP)		CP					
Gas Vol. Param.	Attribute	Probability of equal to or greater than						
		100	95	75	50	25	5	0
	Volume or Area of hydrate stability zone (10 <sup>12</sup> m <sup>3</sup> or 10 <sup>6</sup> m <sup>2</sup> )							
	Reservoir thickness in nonmarine systems (m)							
	Effective porosity (%)							
	Hydrate saturation (%)							
	Hydrate gas yield (m <sup>3</sup> )							