



SDI Review Form 1.6

Journal Name:	Current Journal of Applied Science and Technology
Manuscript Number:	Ms_CJAST_53249
Title of the Manuscript:	DEVELOPMENT OF THERMODYNAMIC MODEL WITH GOPAL'S CONSTANTS FOR THE INHIBITION OF GAS HYDRATES FORMATION IN GAS PIPELINE
Type of the Article	Original Research Article

General guideline for Peer Review process:

This journal's peer review policy states that **NO** manuscript should be rejected only on the basis of '**lack of Novelty**', provided the manuscript is scientifically robust and technically sound. To know the complete guideline for Peer Review process, reviewers are requested to visit this link:

(<http://www.sciencedomain.org/page.php?id=sdi-general-editorial-policy#Peer-Review-Guideline>)



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PART 1: Review Comments

	Reviewer's comment	Author's comment (if agreed with reviewer, correct the manuscript and highlight that part in the manuscript. It is mandatory that authors should write his/her feedback here)
<p>Compulsory REVISION comments</p>	<ol style="list-style-type: none"> 1. Page 1. Line 5 from the bottom. The sentence is not clear. Which properties? Which compounds? Natural gas hydrates. Then, Line 4 from the bottom should read "...with the compounds [6]." However, the points should be made clear to the readers as much as possible. 2. Page 1. Line 4 from the bottom. The sentence "The main...water [7, 8] is not clear. The picture had better be provided. 3. Page 1. Line 4 from the bottom should read "...is water and the hydrocarbon molecule.." 4. Page 1. Line 2 from the bottom should read "This framework is.." 5. Page 1. Line 2 from the bottom should read "...is ice like; however, unlike ice, it has..." 6. Page 2. Line 1 should read "...of hydrates. This was characterized..." 7. Page 2. Line 2 should read "...species that could form..." 8. Page 2. Line 3 should read "...at which the formation occurred." 9. Page 2. Line 3. All through the manuscript, the sentence should be written in passive voice and the reference is indicated not just using the reference number as a subject, adjective or verb. So here it should read "In 1934, hydrates were found to be the cause of plugged natural gas pipelines [9]." 10. Page 2. Line 4 should read "...pipelines. Since then, the oil and..." 11. Page 2. Line 8 should read "...for hydrate formation." 12. Page 2. Line 9 should read "Hence, applying heat, insulating..." 13. Page 2. Line 10 should read "...are the means to keep the operating..." 14. Page 2. Line 11. What does it mean by "flow provers"? 15. Page 2. Line 12 should read "...pressure changes that further result in temperature drops which is known as..." Other words must be omitted because they are unnecessary, redundant and repetitive. 16. Page 2. Line 16 should read "...of interest. Literature are repleted on experimental investigations..." 17. Page 2. Line 31. What is the results from [13]? This needs to be mentioned. 18. Page 2. Line 33 should read "(KLDHIs), displacement of hydrate-prone fluids with..." 19. Page 2. Line 37. The conclusive remarks of this paragraph must be included, especially the purpose and the theme of this work. 20. Page 2. Line 45 should read "...natural gases with the same specific..." 21. Page 3. Line 2. The symbols for coefficient and constant must be checked because it is not the same as those in the equations. 22. Page 3. Line 3 should read "...equations (1) to (6)." and similarly for Line 12, 15 and so on. This must keep consistent throughout the manuscript. Actually, to make it correspond with the text, the number goes with each equation must be in parenthesis as well. 23. Page 4. Line 5 should read "...residual properties," 24. Page 4. Line 8 should read "With the integration," 25. Page 4. Line 16 should read "where the values..." 26. Page 5. Line 13 should read "...temperature, which was obtained..." 27. Page 5 and 6. The definition of sour gas and sweet gas should be mentioned at least one time. 28. Page 5. Line 16. What is a 2 x 2 system? 29. Page 6. Line 3. What is GPSA? At least the full name should be put in the acronym part at the end of the manuscript. 30. Page 7. Line 3 should read "...does lower the increase in..." 31. Page 8. Line 3 should read "...expansion to explain the drop..." 	



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	<p>32. Page 8. Reference 5 should read "Chemical Society Reviews"</p> <p>33. Page 9. Last line. There is no following expression?!</p>	
Minor REVISION comments		
Optional/General comments		

PART 2:

	Reviewer's comment	Author's comment (if agreed with reviewer, correct the manuscript and highlight that part in the manuscript. It is mandatory that authors should write his/her feedback here)
Are there ethical issues in this manuscript?	<i>(If yes, Kindly please write down the ethical issues here in details)</i>	

Reviewer Details:

Name:	Pipat Chooto
Department, University & Country	Prince of Songkla University, Thailand