

Review Form 1.7

Journal Name:	International Research Journal of Pure and Applied Chemistry
Manuscript Number:	Ms_IRJPAC_102379
Title of the Manuscript:	Effects of Acrylamide Copolymer in Fluid Loss Property on Oil Well Cementing
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:

(<https://www.journalirpac.com/index.php/IRJPAC/editorial-policy>)

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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> <p>1. Is the manuscript important for scientific community? (Please write few sentences on this manuscript)</p> <p>2. Is the title of the article suitable? (If not please suggest an alternative title)</p> <p>3. Is the abstract of the article comprehensive?</p> <p>4. Are subsections and structure of the manuscript appropriate?</p> <p>5. Do you think the manuscript is scientifically correct?</p> <p>6. Are the references sufficient and recent? If you have suggestion of additional references, please mention in the review form.</p> <p>(Apart from above mentioned 6 points, reviewers are free to provide additional suggestions/comments)</p>	<p>1. The properties of the water-based drilling fluid, such as the rheology and filtration loss, are affected by the fluid loss additive. Polymers, which are nontoxic, degradable, and environment friendly, are the best choice to be used as drilling fluids additives. The performance of various FLA reported in literatures was evaluated at respective experimental conditions, and the lack of comparability causes a need for assessing the performance of various FLA at same conditions. Acrylamide copolymer, as one type of fluid loss agent (FLA), had attracted a strong interest in the applied petroleum research because of its outstanding characteristics of thickening and filtration control.</p> <p>2. yes</p> <p>3. yes</p> <p>4. yes</p> <p>5. yes</p> <p>6. Could be improved Liu, X., Rao, P., Xiao, W. et al. Synthesis and performance of fluid loss agents based on different acrylamide monomers. J Petrol Explor Prod Technol 5, 409–415 (2015). https://doi.org/10.1007/s13202-015-0154-1 Di Chen, Jintang Guo, Yang Xu, Miaomiao Hu, Pengpeng Li, Jianzhou Jin, Yongjin Yu, Adsorption behavior and mechanism of a copolymer used as fluid loss additive in oil well cement, Construction and Building Materials, Volume 198, 2019, Pages 650-661, https://doi.org/10.1016/j.conbuildmat.2018.11.184.</p>	
<p>Minor REVISION comments</p> <p>1. Is language/English quality of the article suitable for scholarly communications?</p>	-	
<p>Optional/General comments</p>	<p>The units of measure must be standardised throughout the manuscript. For temperature, sometimes degrees Celsius are used and most often degrees Faraday. It would be correct to use SI measurement units.</p> <p>Fluid loss control additives are used to prevent the dehydration of a cement slurry into the formation. Water will naturally leak out of cement into the formation.</p> <p>Fluid loss during cementing has long been suspected to have detrimental consequences, including reduction of slurry volume; increased slurry density and viscosity; cement-cake deposition, which may cause additional decreases in friction pressure during placement; and near-wellbore reservoir filtrate invasion.</p>	

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)
<p>Are there ethical issues in this manuscript?</p>	<p><i>(If yes, Kindly please write down the ethical issues here in details)</i></p>	

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