

**Review Form 1.7**

Journal Name:	<b>Journal of Engineering Research and Reports</b>
Manuscript Number:	<b>Ms_JERR_113531</b>
Title of the Manuscript:	<b>APPLICATION OF WATER ALTERNATING GAS INJECTION TO MAXIMIZE OIL RECOVERY IN THE NIGER DELTA</b>
Type of the Article	<b>Original Research Article</b>

**PART 1: Review Comments**

	<b>Reviewer's comment</b>	<b>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)</b>
<p><b>Compulsory</b> REVISION comments</p> <p><b>1. Is the manuscript important for scientific community?</b> (Please write few sentences on this manuscript)</p> <p><b>2. Is the title of the article suitable?</b> (If not please suggest an alternative title)</p> <p><b>3. Is the abstract of the article comprehensive?</b></p> <p><b>4. Are subsections and structure of the manuscript appropriate?</b></p> <p><b>5. Do you think the manuscript is scientifically correct?</b></p> <p><b>6. Are the references sufficient and recent? If you have suggestion of additional references, please mention in the review form.</b></p> <p><b><u>(Apart from above mentioned 6 points, reviewers are free to provide additional suggestions/comments)</u></b></p>	<p>1. Yes. This manuscript investigates the challenges associated with high water cut in mature waterflood field, with the Niger Delta oil fields are the case study. The study evaluates the effectiveness of Water Alternating Gas (WAG) compared to traditional waterflooding and gas injection methods. The results suggest that WAG inject could significantly enhance oil recovery and prolong production life in mature oil fields.</p> <p>2. The current title is appropriate. However, the author should consider adding "The" before "Application" to enhance the grammatical correctness of the title.</p> <p>3. Yes. The abstract provides a comprehensive overview of the manuscript's content.</p> <p>4. There are 23 sections to present all the content in the entire manuscript. This excessively divides the research content. Some content could be organized into subsections within a single section to facilitate systematic presentation. I suggest retaining 1. Introduction, 2. Background (including geology background and tertiary oil recovery), 3. Methodology, 4. Results and Discussion (all the results and the corresponding discussions), 5. Conclusions, and 6. References.</p> <p>5. Yes.</p> <p>6. More recent references can be added.</p> <p>7. For Ref [1], there are few references to "Anonymous" in academic manuscripts. The author should preferably provide more accurate reference information to enhance the professionalism of the article.</p> <p>8. Although this study focuses on X field in Nigeria, I suggest adding a paragraph at the beginning of the Introduction section to emphasize the common occurrence of high-water cute issues in waterflooding developed oil fields during the late stages of production. Then, the specific research object of this paper X field can be highlighted. This addition can enhance the broader applicability significance of this study.</p> <p>9. Please maintain consistency in unit representation throughout the manuscript, for example, using either "meter" or "m", without switching.</p> <p>10. Please pay attention to the current section "<b>10 RESULTS AND DISCUSSION</b>", there is no content in this section. Please confirm whether there is any missing content.</p>	
<p><b>Minor</b> REVISION comments</p> <p><b>1. Is language/English quality of the article suitable for scholarly communications?</b></p>	<p>There are some grammar issues in the manuscript. Please refer to the manuscript for detailed revisions.</p>	
<p><b>Optional/General</b> comments</p>		

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**PART 2:**

	<b>Reviewer's comment</b>	<b>Author's comment</b> <i>(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)</i>
<b>Are there ethical issues in this manuscript?</b>	<i>(If yes, Kindly please write down the ethical issues here in details)</i> No	

**Reviewer Details:**

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