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| Book Name: | [**Science and Technology: Developments and Applications**](https://www.bookpi.org/bookstore/product/science-and-technology-developments-and-applications-vol-1/) |
| Manuscript Number: | **Ms\_BPR\_4706** |
| Title of the Manuscript: | **Mechanical performance of bentonite plugs in abandonment operations of petroleum wells** |
| Type of the Article | **Book Chapter** |

**Special note:**

**A research paper already published in a journal can be published as a Book Chapter in an expanded form with proper copyright approval.**

**Source Article:**

**This chapter is an extended version of the article published by the same author(s) in the following journal.**

**Resources, 13(8): 1-11, 2024.**

**DOI:** [**https://doi.org/10.3390/resources13080103**](https://doi.org/10.3390/resources13080103)

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| PART 1: Comments | | |
|  | Reviewer’s comment **Artificial Intelligence (AI) generated or assisted review comments are strictly prohibited during peer review.** | Author’s Feedback *(Please correct the manuscript and highlight that part in the manuscript. It is mandatory that authors should write his/her feedback here)* |
| **Please write a few sentences regarding the importance of this manuscript for the scientific community. A minimum of 3-4 sentences may be required for this part.** | **This study provides comprehensive insights into the strength and performance of bentonite plugs used in well abandonment operations. It highlights the effects of operational procedures and subsurface conditions on the integrity of these plugs. Furthermore, the paper extensively covers various aspects of the design and execution of plugs for abandonment, offering a thorough understanding of the processes involved.** |  |
| **Is the title of the article suitable?**  **(If not please suggest an alternative title)** | **Yes** |  |
| Is the abstract of the article comprehensive? Do you suggest the addition (or deletion) of some points in this section? Please write your suggestions here. | **Yes** |  |
| **Is the manuscript scientifically, correct? Please write here.** | **Yes** |  |
| **Are the references sufficient and recent? If you have suggestions of additional references, please mention them in the review form.**  **-** | **Yes** |  |
| Is the language/English quality of the article suitable for scholarly communications? | Spelling Correction:Commercialized (Section 2.1 Second line)  Sentences are too long. It has been observed that just a single sentence often covered the whole paragraph. Break long & complex down the sentences into simple shorter one while keeping the meaning same. |  |
| Optional/General comments | Provide some suggestions for best practice  Include the reasoning why the procedure of plug preparation in onshore and offshore operations are different for the benefit of readers not from core drilling discipline |  |

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| **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?** | *(If yes, Kindly please write down the ethical issues here in details)* |  |

**Reviewer details:**

**Aninda Ghosh, ONGC, India**