

Review Form 1.7

Journal Name:	Journal of Engineering Research and Reports
Manuscript Number:	Ms_JERR_106764
Title of the Manuscript:	MODELLING THE EFFECTS OF TEMPERATURE AND PRESSURE ON EQUIVALENT CIRCULATING DENSITY (ECD) DURING DRILLING OPERATIONS USING ARTIFICIAL NEURAL NETWORKS.
Type of the Article	Original Research Article

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. Equivalent circulation density (ECD) is an important aspect of drilling fluid hydraulics which helps in avoiding kicks and drilling fluid losses, particularly in deep high-pressure high-temperature (HPHT) wells, where the temperature is significant and the margin between pore pressure and fracture pressure is minute. By calculating and controlling ECD, drilling operations can be conducted safely, efficiently, and with minimized formation damage.</p> <p>2. Suggested title is fine and suitable</p> <p>3. yes</p> <p>4. yes</p> <p>5. This study utilized four error metrics to better evaluate the performance or prediction accuracy of the model.</p> <p>6. The introduction provide sufficient background and include all relevant references. All the cited references are relevant to the research.</p>	
<p>Minor REVISION comments</p> <p>1. Is language/English quality of the article suitable for scholarly communications?</p>	<p>English language fine. No issues detected</p>	
<p>Optional/General comments</p>	<p>The research design is appropriate. The methods are adequately described and the results are clearly presented; the conclusions are supported by the results I appreciate the author's contribution to the field and believe that the paper is valuable and provides new insights into the subject matter.</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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