

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>Yes. In this manuscript, the author(s) adopted an artificial neural network to simulate the effect of temperature and pressure on equivalent circulating density (ECD) during drilling operations. Empirical experiments showed that the optimized ECD model performed better than existing ECD models in terms of prediction accuracy and calculated errors.</p> <p>Yes.</p> <p>Yes. By the way, a tiny issue in the abstract. As a regular paper, generally, we will not use references in the abstract, so if possible, please remove the cited references in the abstract and put them in the main text.</p> <p>Yes.</p> <p>Yes.</p> <p>Basically good. But, in my opinion, for the current manuscript, in a total of 23 references, only 4 papers ([12], [16], [20],[22]) are in the past three years. I suggest the author(s) should review more recent work as an original research manuscript.</p> <p>A tiny issue: Please try to keep the font size consistent, at least, not some fonts are especially small in Figures, for example, please adjust the font size in Figure 1.</p>	
<p>Minor REVISION comments</p> <p>1. Is language/English quality of the article suitable for scholarly communications?</p>	<p>It is basically good. However, it can be further improved.</p>	
<p>Optional/General comments</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>(If yes, Kindly please write down the ethical issues here in details)</p>	

Reviewer Details:

Name:	Xinxing Wu
Department, University & Country	Midway University, United States