



SDI Review Form 1.6

Journal Name:	British Journal of Applied Science & Technology
Manuscript Number:	2014_BJAST_12754
Title of the Manuscript:	EXPERIMENTAL ANALYSIS OF SHALE FOR EVALUATING SHALE DRILLING FLUID INTERACTION IN AGBADA FORMATION
Type of the Article	Original Research Article

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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.

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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)
Compulsory REVISION comments	Introduction: Line 20 change it's to it is Line 21 – The reference number should be block parenthesis at the end of the statement to which the reference refers before the period, e.g. cost of well [1]. Line 23 – put reference number properly Line 26 – Replace year of study with reference number e.g. Chenevert [3] showed Line 28 –31 - Put reference number properly Line 37 & 55 should be deleted and contents incorporated into the introduction since this is not a thesis or project report but a research article Line 41 – last sentence change “as a result from” to “as a result of” Line 46 – put reference number properly Lines 47-51 – Do not list. Render as “.... shale instability include sloughing, caving, ...” Line 60-72 – replace year of study with reference numbers as in line 26 above Line 72 – Define WBM. Acronyms should be defined when first used Line 73-74 – Render statement as “Results physical phenomenon-osmotic membrane and” i.e. delete “which are” Line 85 –this section can be set out as: 2.0 Materials and Methods 2.1 Experimental Details 2.2 Experimental Procedure 2.2.1 Shale Test Sample Characterization	All the comments and suggestions were very helpful and they have been corrected as requested. The table has also been merged and re-design as the case maybe. The reference numbers has been corrected.



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2.2.2 Fluid design and test matrix

Line 98-100- should be a continuous statement of experimental study No. 3 i.e. “Development and evaluation samples by performing dispersion tests atmospheric and 120°F as well as swelling tests under”

Lines 103 – 107- Give clear descriptive statement of methods of characterization instead of summary. Put reference number properly at the end of line 103
Line 106 & 107 should be deleted and lines 110-115 moved to section 2.2.2 as suggested above

Line 120 –Replace “also” bentonite with “as well as” bentonite

Line 122- Reverse sentence as “Three mud systems formulated are shown in table 1 below”

Table 1: S/N indicates 9, but the mud systems are 3. For the sake of clarity why not consider this

S/N	Mud System	Composition
1	KCl-Bentonite Mud	3% Bentonite + 1% KCl 3% Bentonite + 0.3% KCl
2	CaCl-Bentonite Mud	3% Bentonite + 1% CaCl 3% Bentonite + 0.3% CaCl
3	NaCl-Bentonite Mud	3% Bentonite + 1% NaCl 3% Bentonite + 0.3% NaCl

Move the 1st row of table here i.e Base Fluid = water

Results and Discussion:

I suggest the following arrangement here:

3.0 Results and Discussion

3.1 Results

Here report all experimental results obtained i.e.

Table 2 & 3; merge Tables 3&4 as Table 3

Table 2 can be rearranged as:



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Analysis	Well A	Well B
Depth (ft)		
Clay Content (wt%):		
Illitite		
.....		
.....		
Mixed layer		
Total clay		
Non-Clay Mineral content (wt%):		
Quartz		
.....		
.....		
.....		

Table 3&4 to be combined as Table 3:

Table 3 Results of Shale Properties

Parameter (wt%)	Well A	Well B
NMC		
TOC		
CEC		

3.2 Discussion of Results:

Start this section from line 129

Line 128 had already been taken care of in the procedure so delete it

Line 134- the data given in Figure 1 “show” not “showed”

Line 140- Replace “could” with “may”

Line 142 – Do you mean “well B” or “Shale B”? Check and correct

Line 146, 165 &183 should be deleted and use paragraphs instead under discussion

Line 157- insert “of” between amount and non-clay

Line 188 and 189- put ref. No. Instead. Delete “is” after CEC also delete the statement “In our CEC test”



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	3.3 Adsorption Isotherms and Modelling Here combine lines 200 and 238. Delete line 210 differentiate these with paragraphs Line 220 – Delete the citations and render as “ Several authors have reported isotherms [No 1, No 2, No.3, etc]” Line 235- deduced 3.4 Shale-Drilling Fluid Interaction Delete line 290 Combine Tables 6 & 7 Line 359 – Put 300 as subscript Combine Tables 8 & 10 as well as Tables 9 & 11 Delete line 402; Discuss section using paragraph Lines 439 & 440 – Render the statement as “ tests, despite the fact that swelling and dispersion are different phenomena”	
<u>Minor</u> REVISION comments	1) Please follow the referencing method outlined above and list the references sequentially following the numbering 2) Number the Tables appropriately after combining some as suggested above	
<u>Optional/General</u> comments	Follow the comments above. Delete words and phrases rendered in red fort and insert those in blue fort where appropriate	