

Place and date: **Sao Mateus, Espirito Santo, Brazil, november 13, 2013.**

INGENIERÍA E INVESTIGACIÓN
Revista ISSN 0120-5609
Facultad de Ingeniería
Universidad Nacional de Colombia

The authors or holders of the copyright for an article entitled “**Modeling the downhole dynamometer card in a sucker-rod pumping system**” hereby confer exclusive, limited and free authorisation on the Universidad Nacional de Colombia’s journal *Ingeniería e Investigación* concerning the aforementioned article which, once it has been evaluated and approved, will be submitted for publication, in line with the following items:

1. The version which has been corrected according to the evaluators’ suggestions will be remitted and it will be made clear whether the aforementioned article is an unedited document regarding which the rights to be authorised are held and total responsibility will be assumed by the authors for the content of the work being submitted to *Ingeniería e Investigación*, the Universidad Nacional de Colombia and third-parties;
2. The authorisation conferred on the journal will come into force from the date on which it is included in the respective volume and issue of *Ingeniería e Investigación* in the Open Journal System and on the journal’s main page (www.revistaingenieria.unal.edu.co), as well as in different databases and indices in which the publication is indexed;
3. The authors authorise the Universidad Nacional de Colombia’s journal *Ingeniería e Investigación* to publish the document in whatever required format (printed, digital, electronic or whatsoever known or yet to be discovered form) and authorise *Ingeniería e Investigación* to include the work in any indices and/or search engines deemed necessary for promoting its diffusion;
4. The authors accept that such authorisation is given free of charge and they therefore waive any right to receive remuneration from the publication, distribution, public communication and any use whatsoever referred to in the terms of this authorisation.
5. The article should be classified as being:
 - A scientific and technological research article/paper;
 - A reflection article;
 - A review article;
 - A short article;
 - A case report;
 - A review of a particular topic;
 - A letter to the editor;
 - An editorial;
 - A translation;

- A reflection paper which has not arisen from research;
 A bibliographic review; or
 A category not covered by the above. Please specify which:
-

6. The article deals with the following specialised area:

Petroleum engineering

(Please indicate which specialised area the article deals with in the area of engineering or whether it is interdisciplinary work)

In witness thereof, the present licence and authorisation is signed on the **13th** day of the month of **November** in the city of **Sao Mateus, ES, Brazil**.

Yours faithfully,

Author 1:

Signature:



Full name: **Oldrich Joel Romero**

Identification document: **(RNE) V187.599-4**

Nationality: **Peruvian**

Academic background and institutions where this took place: **Mechanical Engineer, UNI, Lima, Peru, 1994. MSc, PUC-Rio, Rio de Janeiro, Brazil, 1999. DSc, PUC-Rio, Rio de Janeiro, Brazil, 2003. Online CV Lattes <http://lattes.cnpq.br/3981995002595753>**

Current institutional affiliation: **Professor, Federal University of Espirito Santo (UFES), Espirito Santo, Brazil.**

e-mail: **oldrichjoel@gmail.com**

Author 2:

Signature: p/



Full name: **Paula Almeida**

Identification document: **(RG) 2.235.598**

Nationality: **Brazilian**

Academic background and institutions where this took place: **BSc, Federal University of Espirito Santo (UFES), 2012. Online CV Lattes <http://lattes.cnpq.br/4870976157316945>**

Current institutional affiliation: **MSc, Universidade Estadual do Norte Fluminense (UENF), Rio de Janeiro, Brazil.**

e-mail: **paula-almeida@hotmail.com.br**