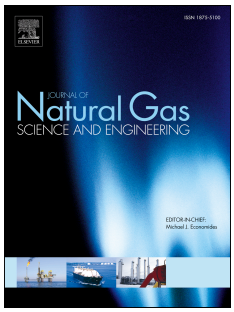
Accepted Manuscript



An integrated approach to simulate fracture permeability and flow characteristics using regenerated rock fracture from 3-D scanning: A numerical study

W.A.M. Wanniarachchi, P.G. Ranjith, M.S.A. Perera, T.D. Rathnaweera, C. Zhang, D.C. Zhang

PII: S1875-5100(18)30103-3

DOI: 10.1016/j.jngse.2018.02.033

Reference: JNGSE 2489

To appear in: *Journal of Natural Gas Science and Engineering*

Received Date: 18 October 2017

Revised Date: 18 February 2018

Accepted Date: 28 February 2018

Please cite this article as: Wanniarachchi, W.A.M., Ranjith, P.G., Perera, M.S.A., Rathnaweera, T.D., Zhang, C., Zhang, D.C., An integrated approach to simulate fracture permeability and flow characteristics using regenerated rock fracture from 3-D scanning: A numerical study, *Journal of Natural Gas Science & Engineering* (2018), doi: 10.1016/j.jngse.2018.02.033.

Cover Page

Manuscript Title:

An integrated approach to simulate fracture permeability and flow characteristics using regenerated rock fracture from 3-D scanning: A numerical study

Authors' names:

W.A.M. Wanniarachchi[1], P.G. Ranjith[1*], M.S.A. Perera[1,2], T.D. Rathnaweera[1], C. Zhang[1] and D.C. Zhang[1]

[1]Deep Earth Energy Laboratory, Department of Civil Engineering, Monash University, Building 60, Melbourne, Victoria, 3800, Australia.

[2]Department of Infrastructure Engineering, The University of Melbourne, Building 175, Melbourne, Australia.

Corresponding author:

Prof Ranjith PG*

Deep Earth Energy Laboratory, Monash University, Building 60,

Melbourne, Victoria, 3800, Australia.

Phone/Fax: 61-3-9905 4982

E-mail: ranjith.pg@monash.edu