

Accepted Manuscript

Experimental and numerical investigation on slug initiation and initial development behavior in hilly-terrain pipeline at a low superficial liquid velocity

Pengbo Yin , Xuewen Cao , Yuhao Li , Wen Yang , Jiang Bian

PII: S0301-9322(17)30391-9
DOI: [10.1016/j.ijmultiphaseflow.2018.01.004](https://doi.org/10.1016/j.ijmultiphaseflow.2018.01.004)
Reference: IJMF 2712



To appear in: *International Journal of Multiphase Flow*

Received date: 21 June 2017
Revised date: 4 January 2018
Accepted date: 4 January 2018

Please cite this article as: Pengbo Yin , Xuewen Cao , Yuhao Li , Wen Yang , Jiang Bian , Experimental and numerical investigation on slug initiation and initial development behavior in hilly-terrain pipeline at a low superficial liquid velocity, *International Journal of Multiphase Flow* (2018), doi: [10.1016/j.ijmultiphaseflow.2018.01.004](https://doi.org/10.1016/j.ijmultiphaseflow.2018.01.004)

This is a PDF file of an unedited manuscript that has been accepted for publication. As a service to our customers we are providing this early version of the manuscript. The manuscript will undergo copyediting, typesetting, and review of the resulting proof before it is published in its final form. Please note that during the production process errors may be discovered which could affect the content, and all legal disclaimers that apply to the journal pertain.

Highlights

- Slug flow experiments at a low liquid velocity in hilly-terrain pipeline are conducted.
- A numerical simulation model is proposed for slug flow prediction.
- The slug initiation mechanisms around the elbow are discussed.
- Pressure drop and liquid holdup signals are presented for slug flow description.

ACCEPTED MANUSCRIPT

Download English Version:

<https://daneshyari.com/en/article/7060145>

Download Persian Version:

<https://daneshyari.com/article/7060145>

[Daneshyari.com](https://daneshyari.com)