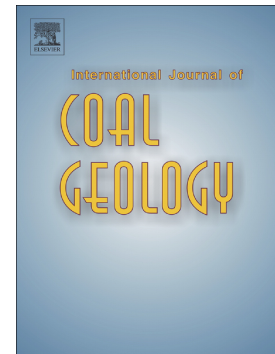


Accepted Manuscript

Gas geochemical evidences for biodegradation of shale gases in the Upper Triassic Yanchang Formation, Ordos Basin, China

Qiang Meng, Xiaofeng Wang, Xiangzeng Wang, Baoguang Shi, Xiaorong Luo, Lixia Zhang, Yuhong Lei, Chengfu Jiang, Peng Liu



PII: S0166-5162(16)30862-X
DOI: doi: [10.1016/j.coal.2017.05.018](https://doi.org/10.1016/j.coal.2017.05.018)
Reference: COGEL 2845

To appear in: *International Journal of Coal Geology*

Received date: 27 December 2016
Revised date: 28 April 2017
Accepted date: 28 May 2017

Please cite this article as: Qiang Meng, Xiaofeng Wang, Xiangzeng Wang, Baoguang Shi, Xiaorong Luo, Lixia Zhang, Yuhong Lei, Chengfu Jiang, Peng Liu , Gas geochemical evidences for biodegradation of shale gases in the Upper Triassic Yanchang Formation, Ordos Basin, China. The address for the corresponding author was captured as affiliation for all authors. Please check if appropriate. *Cogel*(2017), doi: [10.1016/j.coal.2017.05.018](https://doi.org/10.1016/j.coal.2017.05.018)

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.

Gas geochemical evidences for biodegradation of shale gases in the Upper Triassic Yanchang Formation, Ordos Basin, China

Qiang Meng^{a,b}, Xiaofeng Wang^{a*}, Xiangzeng Wang^c, Baoguang Shi^a, Xiaorong Luo^a,
Lixia Zhang^c, Yuhong Lei^a, Chengfu Jiang^c, Peng Liu^{a,b}

^a*Key Laboratory of Petroleum Resources, Gansu Province/ Key Laboratory of Petroleum Resources Research, Institute of Geology and Geophysics, Chinese Academy of Sciences, 382 Donggang West Road, Lanzhou, Gansu Province 730000, PR China*

^b*University of Chinese Academy of Sciences, 19 Yuquan Road, Beijing 100049, PR China*

^c*Shaanxi Yanchang Petroleum (Group) CO., LTD., 75 Keji 2 Road, Xi'an, Shaanxi Province 710075, PR China*

Abstract: Fractionation of chemical components and hydrogen/carbon isotopic compositions associated with biodegradation of shale gases were determined from typical shale profiles of the Upper Triassic Yanchang Formation, Ordos Basin, China. The results show that the light hydrocarbons (C₁-C₅) of the shale gases were partially degraded by microorganisms and the degradation degree decreased with depth in the profile of Well YY22. However, the degradation degree of Wells FY2 are basically unchanging at different depths and there is no obvious evidence for biodegradation in Well YY18. Biodegradation of C₁ and C₂ can occur and the degradation of hydrocarbon

Download English Version:

<https://daneshyari.com/en/article/5483624>

Download Persian Version:

<https://daneshyari.com/article/5483624>

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