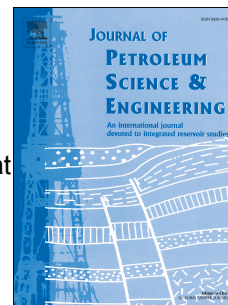


Accepted Manuscript

Sequence stratigraphy of the Triassic Period: Case from the Dashtak and Khaneh-Kat formations, the Zagros Basin, Iran

Omeid Rahmani, Mehdi Khoshnoodkia, Hassan Mohseni, Mahmoud Hajian



PII: S0920-4105(18)30278-X

DOI: [10.1016/j.petrol.2018.03.092](https://doi.org/10.1016/j.petrol.2018.03.092)

Reference: PETROL 4833

To appear in: *Journal of Petroleum Science and Engineering*

Received Date: 13 December 2017

Revised Date: 6 March 2018

Accepted Date: 27 March 2018

Please cite this article as: Rahmani, O., Khoshnoodkia, M., Mohseni, H., Hajian, M., Sequence stratigraphy of the Triassic Period: Case from the Dashtak and Khaneh-Kat formations, the Zagros Basin, Iran, *Journal of Petroleum Science and Engineering* (2018), doi: 10.1016/j.petrol.2018.03.092.

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.

1 Sequence stratigraphy of the Triassic Period: Case from the Dashtak and 2 Khaneh-Kat formations, the Zagros Basin, Iran

3 Omeid Rahmani ^{a,*}, Mehdi Khoshnoodkia ^b, Hassan Mohseni ^c, Mahmoud Hajian ^d

4 ^a Department of Petroleum Engineering, Mahabad Branch, Islamic Azad University,
5 Mahabad 59135-433, Iran

6 ^b Department of Reservoir Geology, National Iranian South Oil Company (NISOC), Ahwaz,
7 Iran

8 ^c Department of Geology, Faculty of Basic Sciences, Bu-Ali Sina University, Hamadan, Iran

9 ^d Research and Technology Department, Exploration Directorate, National Iranian Oil
10 Company (NIOC), Tehran, Iran

11 * Corresponding author: Tel.: +98 914 442 2009.

12 Email: omeid.rahmani@iau-mahabad.ac.ir ; omeidrahmani@gmail.com

13

14 Abstract

15 The Dashtak and Khaneh-Kat formations in the Zagros Basin were deposited during
16 the Triassic Period and are mainly composed of carbonate-evaporate rocks. The
17 depositional environment of these formations ranged from supratidal and tidal flat to
18 lagoonal and shoal ramp. However, the lack of evaporite sediments indicates that the
19 Khaneh-Kat formation was deposited in a relatively deeper setting in which no more
20 evaporites were present. In the study area, the Dashtak formation has acted as an
21 effective seal for giant gas reservoirs entrapped within the Dehram Group, whereas
22 the Khaneh-Kat formation appears to have neither of the characteristics of a cap
23 rock. This study revealed that the Dashtak formation is divided into four sequences
24 (middle to late Triassic) and the Khaneh-Kat formation consists of five sequences
25 (middle to late Triassic). The uppermost sequence of the Dashtak formation was
26 removed by post- depositional erosion in the SE despite its complete preservation in

Download English Version:

<https://daneshyari.com/en/article/8124810>

Download Persian Version:

<https://daneshyari.com/article/8124810>

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