

Accepted Manuscript

Facies, depositional environments, and sequence stratigraphy analysis of the upper Barremian-lower Aptian carbonates in the northeast Kelardasht, N Iran

Mohammad Ali Kavooosi, Neda Ezoji



PII: S1464-343X(18)30172-9

DOI: [10.1016/j.jafrearsci.2018.06.018](https://doi.org/10.1016/j.jafrearsci.2018.06.018)

Reference: AES 3244

To appear in: *Journal of African Earth Sciences*

Received Date: 17 January 2016

Revised Date: 28 May 2018

Accepted Date: 13 June 2018

Please cite this article as: Kavooosi, M.A., Ezoji, N., Facies, depositional environments, and sequence stratigraphy analysis of the upper Barremian-lower Aptian carbonates in the northeast Kelardasht, N Iran, *Journal of African Earth Sciences* (2018), doi: 10.1016/j.jafrearsci.2018.06.018.

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.

1 **Facies, depositional environments, and sequence stratigraphy analysis of the upper**
2 **Barremian-lower Aptian carbonates in the northeast Kelardasht, N Iran**

3
4 Mohammad Ali Kavooosi ^{*a}, Neda Ezoji*

5 *National Iranian Oil Company Exploration Directorate (NIOCEXP), 1st Dead-end,
6 Seoul Street, NE Sheikh Bahaei Square, PO Box 19395-6669, Tehran, Iran.

7 ^a Corresponding author e-mails: kalenoo2002@yahoo.com and
8 m.kavooosi@niocexp.ir (M.A. Kavooosi),

9 Fax: +982188604533, Tel: +989122186209

10 *Training and Education Ministry, Bentol-Hoda Street, Fajr Square, Shahriyar, Iran

11 E-mail: ezojineda53@gmail.com

12
13 **Abstract**

14 The carbonates accumulated within a time interval spanning the late Barremian-early
15 Aptian, comprise the Member 2 of the Chalous Formation. The member cropped out in
16 the northern Central Alborz Mountains Range, northern Iran. Detailed field surveys,
17 lithofacies and facies analyses was carried out to investigate the depositional
18 environments and sequence stratigraphy analysis at five outcrop sections. Based on
19 petrographic investigation and texture, sixteen facies and microfacies were defined and
20 assigned to the back-barrier lagoon, shelf margin/shoal, and shallow open marine facies
21 belts. Vertical and lateral facies changes, lack of several geological evidence including
22 siliciclastics, bioherms, calciturbidites, clinoforms, together with lateral thickness
23 changes as well as comparison to recent and ancient carbonate platforms, suggest
24 deposition on a non-rimmed isolated carbonate platform. The upper Barremian to lower
25 Aptian deposits of the study areas comprises three third-order depositional sequences.

Download English Version:

<https://daneshyari.com/en/article/8913349>

Download Persian Version:

<https://daneshyari.com/article/8913349>

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