

Geological Evolution of Assaluiyeh Anticline Southern Iran

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Assaluiyeh Anticline is one of the major structures of the Simply Folded Zagros Structural Zone in south Iran.

The structure comprises a sequence of evaporitic and shallow marine rocks namely, gypsum limestone, dolomite (Sabkhah type) and marl of Upper Jurassic-Lower Cretaceous age.

In the previous works of petroleum geologists (e.g. consurtium) evaporites were introduced as Hith Formation or its equivalent.

Hith Formation in the type section in the Saudi Arabia consists of 91.40 m of evaporite mainly anhydrite, but baren fossil. (Upper Jurassic)

In the Assaluiyeh Anticline South of Kangan oil and gas field (250 km. south of Bushehr City) the formation consists of alternation of gypsum and dolomite with some intercalations of fossiliferous (microfauna) limestone which occopies about 200 m. thickness, and attains an age of Upper Jurassic (Tithonian).

Because of the above characteristics, it is suggested that "THE ASSALUIYEH FORMATION" "instead of Hith Formation" at least in Iran for it.