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摘要:

塔里木盆地北部库车前陆褶皱带古新统一始新统发育盐岩层系, 将库车前陆褶皱带构造变形和圈闭样式分为三层, 即盐上构造、盐层(盐间)构造和盐下构造。盐上构造包括盐上背斜、盐上逆冲断层及断层相关褶皱、盐上背冲断块构造、强制褶皱、盐上逆冲断层遮挡构造和盐推覆构造等; 盐层(盐间)构造主要包括盐枕构造、盐间断褶构造、盐焊接构造和外来盐席等; 盐下构造主要有背冲断块构造、断层相关褶皱、叠瓦冲断带和双重构造等。库车前陆褶皱带盐构造的形成可能受挤压作用、重力滑动和重力扩展作用多重控制。笔者等讨论了盐相关构造油气成藏条件和模式, 认为库车前陆褶皱带盐岩层变形与丰富的圈闭构造形成密切相关, 烃源岩主要位于盐下, 盐岩层作为优质盖层构成石油和天然气藏最优的遮挡条件, 断裂对盐下、盐间和盐上油气成藏都起重要控制作用, 但盐下是最有利的油气聚集场所。

关键词: [塔里木盆地](#) [库车前陆褶皱带](#) [盐相关构造](#) [油气聚集](#)

Salt-related Structural Characteristics and Hydrocarbon Accumulation in the Middle Segment of the Kuqa Foreland Fold Belt in the Northern Tarim Basin, NW China [Download Fulltext](#)

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Abstract:

Thick salt beds of the Lower Tertiary are developed in the middle segment of the Kuqa foreland fold belt in the northern Tarim basin. The Meso-Cenozoic structures of the Kuqa foreland fold belts can be divided into three large horizons based on the salt beds, i. e., suprasalt structures, salt bed structures and subsalt structures. The suprasalt structures include salt anticlines, thrusts and fault-related folds, suprasalt pop-up, forced folds, thrust screened structures and salt nappes. The salt bed structures are mainly salt pillows, interbedded thrust-folds, salt welds and allochthonous salt sheets. The subsalt structures mainly include popup structures, fault-related folds, imbricated thrusts and duplex structures. The Formation of the salt tectonics in the Kuqa foreland fold belt may be controlled by compression, gravitational gliding and gravitational spreading. The hydrocarbon accumulation conditions and models of the salt-related structures are discussed in the paper. Structural traps have a bearing upon salt beds in the middle segment of the Kuqa foreland fold belt. The source rocks are mainly located below the salt beds that can act as excellent caprocks and seal of the oil-gas pools. Thrust faults cutting through salt beds play an important role in controlling suprasalt, salt beds and subsalt petroleum accumulation. The subsalt horizons are the favorable place to find out oil-gas pools.

Keywords: [Tarim basin](#) [Kuqa foreland fold belt](#) [salt-related structures](#) [hydrocarbon accumulation](#)

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