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The Fault System of the North Section of Liaodong Salient, Constraints from Seismic Data and Physical Modeling Experiment

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The north section of Liaodong Salient located in the northern part of the east salient in Liaodong bay depression, Bohai Bay Basin, east China. The east and west boundary faults are all branches of the Tan-Lu Fault Zone. Now it has proved oil-containing structure JZ27-6, JZ23, etc. but it is still in low degree in geological research. Therefore the exploration has great hydrocarbon potential. With previous research, according to the distributing of fault system of every sedimentary phase,

making physical modeling experiment, to discuss the factors which controls the fault system in the north section of Liaodong Salient. The study shows that: (1) Cenozoic structures of the north section of Liaodong Salient result from different stress direction and features. (2) The early tension produce normal fault. (3) In the end of strike-slip fault, horse spray structure system shows on the release bend.

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