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胜利油田火山岩辉石中岩浆包裹体成分及有关成因问题 [点此下载全文](#)

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摘要:

对胜利油田火山岩中辉石及其中岩浆包裹体成分的研究表明: CO<sub>2</sub>气藏区和非CO<sub>2</sub>气藏区新生代火山岩辉石及其中岩浆包裹体成分有明显区别, 前者中辉石为普通辉石, 成分相对富SiO<sub>2</sub>, 而贫Al<sub>2</sub>O<sub>3</sub>、TiO<sub>2</sub>、MgO和挥发成分; 而后者中辉石为透辉石, 成分相对贫SiO<sub>2</sub>和挥发份, 而富Al<sub>2</sub>O<sub>3</sub>、TiO<sub>2</sub>和MgO。前者岩浆包裹体玻相中富含CO<sub>2</sub>, 包裹体中的金属矿物多为黄铁矿; 而后者岩浆包裹体玻相中贫CO<sub>2</sub>; 包裹

关键词: [岩浆包裹体](#) [火山岩](#) [辉石](#) [胜利油田](#) [二氧化碳气藏](#)

Composition and Significance of Magmatic Inclusions in Pyroxenes of [Download Fulltext](#)

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Abstract:

This paper reports a study of the composition and significance of magmatic inclusions in pyroxene of volcanic rocks from the Shengli Oilfield. There are significant differences in the composition of pyroxene and its magmatic inclusions between CO<sub>2</sub> gas fields and non-CO<sub>2</sub> gas fields: for the former, the pyroxene is augite characterized by higher SiO<sub>2</sub>, lower Al<sub>2</sub>O<sub>3</sub>, TiO<sub>2</sub> and volatile components, the metallic micro-mineral in the magmatic inclusions is pyrite; but for the latter, the pyroxene is diopside characterized by lower SiO<sub>2</sub> and volatile components, higher Al<sub>2</sub>O<sub>3</sub>, TiO<sub>2</sub> and volatile component, the metallic micro-mineral in the magmatic inclusions is anatase. Also in the former, a high CO<sub>2</sub> content is seen in the glass phase of the magmatic inclusions. The results show that the glass of the magmatic inclusions has higher Al<sub>2</sub>O<sub>3</sub>, Na<sub>2</sub>O, K<sub>2</sub>O and volatile components than the pyroxene, and the brown glass of the magmatic inclusions has higher Al<sub>2</sub>O<sub>3</sub>, Na<sub>2</sub>O, K<sub>2</sub>O and CO<sub>2</sub> contents than the colorless glass, suggesting an enrichment of CO<sub>2</sub> with the evolution of the magma. This study has contributed to a better understanding of the evolution of magma and the magma-degassing mechanism of the formation of CO<sub>2</sub> gas pools in the Shengli Oilfield.

Keywords: [magmatic inclusion](#) [volcanic rocks](#) [pyroxene](#) [CO<sub>2</sub> gas pool](#) [Shengli Oilfield](#)

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