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& KDUDFWHUL]DWLRQ RI WKH FRUURV<sub>2</sub> Under High Sulfur Gas Reservoir Conditions

7DR \*X ;LDR\DQJ \*XR ;LQJJXR =KDQJ and D, R, D, Z, H, L / & K, H, Q, J +XDQJ  
Southwest Petroleum, P.R. China

H<sub>2</sub>S is an acidic and toxic gas and the corrosion of oilwell cement is considered to be a great challenge for wellbore integrity and environmental safety in the exploitation of high-sulfur gas reservoir. In our work, an unidirectional sample was designed to simulate the actual downhole condition, and the corrosion performances of oilwell cement exposed to humid H<sub>2</sub>S gas and H<sub>2</sub>S rich brine were investigated using designed unidirectional samples. Compressive strength, microhardness,

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