

عنوان مقاله:

Investigation of Overspray Cooling Technique in Gas Turbo Compressors Efficiency during Artificial Rotative Gas Lift Recovery

محل انتشار:

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خلاصه مقاله:

Gas lift is particularly applicable for lifting wells where high pressure gas is available. Gas compressors may have been installed for gas injection or high pressure gas wells may be nearby. In the case of gas compressors, the usual and profitable power generators are gas turbines. This field study carried out on the gas turbo compressors in the Salman platform that have been installed on the Sasan oil field. Solar gas turbine energy consumption has been reduced by installing an air humidification (or fogging) system in gas turbine intake that will almost saturate the turbine inlet air. Furthermore, it has been shown that occupation of this system will generate more power on a specific day temperature with lowering of inlet air temperature and with the same amount of energy (fuel) more gas has been injected to gas lifted oil wells. Beside of performance improvement, using fog system has been caused that air compressor and turbine buckets remain clearer and also exhausted gas emission has reduced significantly

کلمات کلیدی:

Fog and Overspray Cooling; Gas Turbine; Wet Compression System

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