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PLANT MODIFICATION TO REUSE THE PRODUCED WATER FROM THE DEHYDRATION UNIT IN NGL PLANT IN IRRIGATION

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Simple modification of NGL plant process flow to treat the produced water in oil and gas industry. If produced water meets appropriate water quality criteria, it may be used beneficially for purposes such as irrigation, livestock watering, aquifer storage, stream flow augmentation, and municipal and industrial uses. Treatment may be required to improve the quality of produced water so that it can be put to beneficial use as in our paper as the produced water was injected to the sewage treatment unit with different ratios to digest the oil and glycols by the microorganisms using additional nutrient, continual monitoring for oil content and the glycols concentration using oil in water instrument and gas chromatograph to monitor the progress to know the optimum injection rate of the produced water to the sewage treatment unit which was 100:900 respectively.

Biography

Mohamed A Saad Mahmoud is an Egyptian Scientist. He has completed his Masters and PhD in Organic Chemistry from Suez Canal University, Ismailia, Egypt. He has worked as Laboratory Chemist in United Gas Derivatives Company and developed the presented invention to save 400,000\$ annually to the company; then he joined Saudi Vision Company in April 2013 and introduced several innovative ideas and alternative analytical techniques in oil and gas analytical techniques, such as mercury determination in range of 5 ppb using ICP-OES without auxiliary unit. He became the Laboratory Manager in 2015. He has been recruited by Saudi Aramco Oil Company in 2017, and became the Youngest Lab Scientist, with the highest employee grade code. He became the Laboratory Technical Leader of the NATSD and filed two patents related to glycols in water determination and general aerobic bacteria alternative medias for quantification in the first year with the company.

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