



All Things Analysis

PVT Edition

Texas OilTech Laboratories' monthly newsletter pertaining to your industry: *why you matter and how we can help.*

May 1, 2019 | Volume 1 | by Paulina Pena

The Importance of PVT Analysis

Why will the study of pressure, volume & temperature keep you in business?

Relevant News

How pipeline clogs are issuing conversations on oil tax reform in Alaska, and appearing in Venezuelan pipelines due to power outages.

The Expert on PVT Analysis

Meet Dr. Ali Naderi, from our Department of Upstream Studies.

Upcoming Events

From trade fairs to travel, places we'll be this month.



The Importance of PVT Analysis

The study of pressure, volume and temperature relationships with respect to reservoir fluids, more commonly known as PVT analysis, is a necessary knowledge in the business of upstream services.

PVT analysis can be utilized in understanding phase behavior of reservoir fluids, through the assessment of the flow characteristics of your oil. By assessing the characteristics of the reservoir and fluid movement, measures such as prediction, prevention and remediation can be determined. The prevention of asphaltene precipitation, hydrate formation, and wax appearance in your oil pipelines can be determined through PVT studies. Without these studies, lack of knowledge and preparation can result in asphaltene precipitation, wax appearance and hydrate formation causing the fouling of production facilities, the plugging of the reservoir wells, the blockage of lines and equipment, wax buildup resulting in pipeline diameter loss restriction of flow and blocking of valves and the eventual the loss of production. Since 1985, Texas OilTech Laboratories has been providing analytical services to the oil and gas industry providing fast, high quality performance tests that have earned us a reputation among the oil industry leaders. Learn more about our variety of upstream testing services [here.](#)

Oil tax conundrum and the trans-Alaska oil pipeline

by Doug Reynolds Mar 31, 2019

Why is Senate Bill 21, also known as the More Alaska Production Act, costing Alaskan citizens in taxes as oil producers continue to gain? There are three main reasons that SB 21 has yet to be amended: the declining flow rate of the trans-Alaska oil pipeline, the fear of the state defunding oil exploration, and the incentive it gives to not undertake an engineering analysis to restore the oil flow.

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Blackouts hit Venezuela oil output, and clog Orinoco basin tar-oil pipelines

April 6, 2019

After rolling blackouts in Venezuela, four out of five pipelines connected to the Orinoco Basin in the East were plagued by clogs of heavy, tar-like oil, due to the failure of power to the heating systems. Venezuelan oil output usually averaging 890,000 bbl per month has plummeted to below 600,000 bbl, further paralyzing Venezuela's weakening oil industry.

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Meet the Expert on PVT Analysis



Dr. Ali Naderi, Sr. Scientist Department of Upstream Studies

Ali Naderi PhD, the Sr. Scientist and Director of Advanced Upstream Studies at Texas OilTech Laboratories since 2013 is responsible for the overall management of upstream activities. Dr. Naderi works with the senior technical staff and sales staff globally (Houston, TX, Bogota Colombia, and Campinas Brazil) providing technical support, project development support, and technical data review in the areas of reservoir fluid characterization, flow assurance, inhibitor evaluations, and enhanced oil recovery.

Dr. Naderi's credentials reads as follows; Postdoctoral Research, Petroleum Engineering, The University of Texas at Austin, Austin, TX, Doctor of Philosophy, Petroleum Engineering, RWTH Aachen University, Aachen, Germany, Masters of Science, Petroleum Engineering, Delft University of Technology, Delft, Netherlands, and a Bachelor of Science, Chemical Engineering, Shiraz University, Shiraz, Iran.

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Upcoming Events



Where will we be for the month of May?

- May 14-15, 2019: The Environmental Trade Fair & Conference in Austin, Texas. Come meet us at booth #1046!



We provide a variety of rheological & material characterization services

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