Q-ENVIRO™ System Reduces Environmental Impact of Drilling Operation in Algeria

Developed by a team from Environmental Solutions, a QMax Company, the Q-ENVIRO System is a new waste treatment process, which is proven to reduce environmental impact and treatment costs for operators.

**Context**

Oily slop wastes generated from wash down, surface losses, and tank cleaning activities during drilling of the 12.25", 8.5" & 6" sections at a land-based drilling location in Algeria were typically co-mingled with drill cuttings in a waste pit and then sent to a central processing facility for final treatment and disposal. This led to increased waste volumes for treatment as well as increased logistics and final disposal costs for the operator.

**Challenge**

To reduce the environmental impact of hauling drilling waste volumes offsite and reduce offsite treatment costs, a new rig site process solution was required.

**Solution**

A methodology was developed to segregate liquid wastes from dry cuttings discharged from the solids control equipment. This avoided the co-mingling of different waste types before sending the liquid waste to the Q-ENVIRO System, which was installed on the rig ready to treat the oily slops and recover clean water and oil for reuse.
Results
In comparison to previous wells drilled in the same area with the same rig, the introduction of the Q-ENVIRO System resulted in a 73% reduction of drilling waste hauled off for treatment to the central waste treatment facility. This resulted in a significant reduction in environmental impact of the drilling operation and substantial cost savings for the client in terms of transport and the cost of treatment and final disposal of the wastes.

Conclusion
The Q-ENVIRO System is a new low-cost, innovative, and effective solution to treating both water- and oil-based onshore drilling and production wastes, greatly reducing the overall volume of waste generated by the drilling operation. It is rigged up easily and quickly, while logistics and installation costs are greatly reduced compared to other equipment-based solutions. The Q-ENVIRO System does not require additional personnel to operate and equipment related non-productive time risks are reduced.

Your Unique Well
Innovation is at the core of our global operations. Our unwavering commitment to providing optimum solutions for each customer’s unique well is how We Deliver, No Excuses. Contact QMax today and find out how we can help you with your next drilling challenge.

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