

## New Additive Discovered for Use in Oil Base Mud Formulation

**Milap Goud**

Knnamp Enterprise, India

In an attempt to find effective use of carbide sludge waste produced in the manufacturing process of Acetylene, a study has been conducted to use the same in formulation of synthetic oil base mud used for drilling oil/gas wells. After detailed investigation a new additive has been invented by carefully selecting and blending another additive in carbide sludge which also happens to be a by-product of thermal power plant process. It has been proved by this study that the new additive not only performs better than another component of mud formulation currently in use, but also reduces the cost of mud and at the same time also finds effective utilization of by-products of two industries. The use of the blend of carbide sludge and alkalinity increasing additive produced as a by-product of thermal power plant process results in a solution much desirable for everyone without adverse impact to anyone.

The additive is used as an activator to emulsifier and enhances the emulsion stability of the synthetic oil base mud. The experiments were performed over an entire range of mud weight with differing OWR to ensure the effectiveness of the additive over the entire range. The dual benefit of converting waste into a useful commodity thus benefits oil industry as well as Acetylene manufacturing industries and hence assumes greater advantage. By extrapolating the current work, it can be ascertained whether the additive can facilitate reduction of emulsifier concentration and yet provide the same emulsion strength as provided by emulsifier of increased dosage, which can result in decrease of per barrel cost of formulation also.

### Biography:

Dr. Milap Goud is an eminent professional, innovative thinker, solution seeker and entrepreneur, holding equal command on academic and industrial aspects of Hydrocarbon industry. Despite four decades industry exposure, still deeply rooted to academic world by reviewing technical papers and taking up joint research project. Successfully running and owning a consultancy firm "Knnamp Enterprise" with its own laboratory. Actively interacting with industrialists and academicians to bridge the gap between industry requirements and academic preparedness. Developed new additives from waste discard of other industry. Adopt holistic approach towards providing workable solutions with emphasis on safe-guarding the environment and adding value to enable sustained development.