



Apcotane - the H2S mitigation product that allows company to keep production from being shut-in.

Oil producer faces dilemma of H2S affecting production.

CHALLENGE

H2S levels over 100k threaten to shut-in wells in the Permian Basin.

SOLUTION

Apcotane to be applied via batch treatment application in storage tanks to allow for optimal residence time for mitigating high H2S.

RESULTS

- ▶ Developed a process to mitigate high H2S.
- ▶ Economically treat sour oil allowing for sustained production.
- ▶ Allow company the ability to evaluate well production by volume not ppm.



Permian Basin is not immune to H2S.

Permian Basin accounts for some of the highest oil production on the planet. Due to the sheer volume of production it also accounts for a large portion of H2S. Hydrogen Sulfide is a toxic and flammable gas with an obnoxious odor, formed during decomposition of organic (animal and plant) matter. Safety, when dealing this deadly toxic gas, is imperative to not allow for an HSE risk.

Our client has over 3500 barrels per day of H2S between 8,000-125,000 ppm in the vapor space. Due to these high numbers and the inability to blend the oil, the situation has escalated to concern about having to shut-in the production due to not having an economical solution.

One treatment versus multiple treatments.

Apollo was tasked with applying its Apcotane (patent pending) product to help reduce H2S levels allowing sustained production. Apcotane was applied via a batch treatment allowing for maximum mixing and retention time. The client was astonished with our ability to use current equipment to attain our zero ppm of H2S in their treated oil. Since Apcotane is bi-soluble, non-corrosive, and irreversible product once in oil. This allows for a one time treatment versus multiple treatments compared to other products.

Client was currently trucking high H2S oil to east Texas. With Apcotane the safe loading/unloading along with transporting zero H2S is a welcomed change. It also greatly diminishes the liability that the company dealt with on a daily basis.

Apcotane transforming H2S Crude - treatment - transportation - handling.

Apcotane is a ground-breaking product in H2S mitigation. The ability to have an irreversible reaction that does not have a by-product to handle is something the oil and gas industry has never seen. The application for our client in the Permian Basin was to utilize their long retention time to help decrease the dosage rate. This helps the client use a revolutionary product that is economical. Apcotane was able to mitigate 125,000 ppm H2S in eight hours. The client had tried MEA-triazine to help with H2S but was unsuccessful even at much lower ppm. Apcotane has allowed the client to keep the wells pumping thus insuring their financial future.

To transform treatment for our client allowed them the ability to treat once and not have H2S reappear. To transform transportation for our client allowed them greatly reduce their liability by not having H2S present in their trucks as they made the haul to south Texas. To transform handling for our client insures the safety of their equipment as well as their personnel. Apcotane transformed their liability as well as their bottom-line.