

CASE STUDY

H2S REAL TIME MEASUREMENT AND ON-DEMAND TREATMENT IN CRUDE

PROBLEMS:

- 1 Failure to stay on spec from heavy spikes of H2S
- 2 Large expenses due to overtreating H2S with liquid scavenger
- 3 Human-error and dangerous H2S exposure involved with manual sampling
- 4 Lack of precision in measuring Hydrogen Sulfide levels by manual sampling
- 5 Recurring upsets leading to an inability to be on spec and meet **contractual** agreements

SOLUTION:

“Using KECO’s in-line H2S in Crude Oil analyzer created not only a safer environment, but it also did the most important protocol when speaking of the Oil and Gas industry regarding the production of H2S. This analyzer provided fast and reliable measurements, which in turn enhances operational efficiency and reduced chemical expenditure.”

RESULTS:

- 1 Analyzer allowed crude oil to be on spec
- 2 Massive cost reductions from no longer over-treating and **FAST ROI**
- 3 A safe work environment was created by using the analyzer and minimizing manual sampling
- 4 Decision-making process made easy for team due to real-time telemetry
- 5 Precise measurement in H2S when using the analyzer



APPLICATION DETAILS:

Location/ Application	Sales Spec H2S	Crude Concentration	Total gas Volume
New Mexico	10ppm/v	700ppm/v	15000 BPD

BENEFITS:
Reduced chemical costs

CLIENT BACKGROUND:

Small independent oil producer in the U.S. and a leader in America's energy renaissance

CUSTOMER STATEMENT:

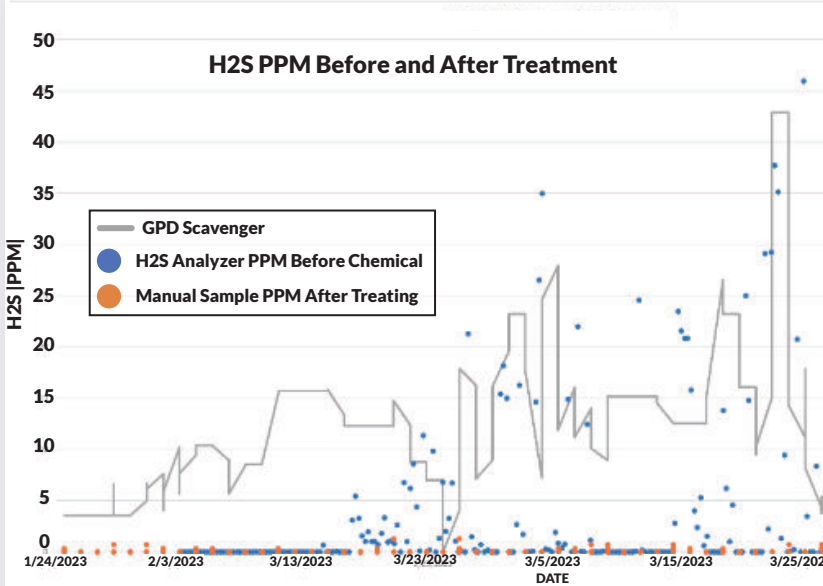
“First and foremost, the accuracy of the H2S Analyzer is truly impressive. It consistently delivers precise and reliable measurements of hydrogen sulfide levels, allowing us to make informed decisions based on accurate data. This level of accuracy has significantly enhanced our operational efficiency, as we can now respond swiftly and appropriately to any fluctuations in H2S levels, ensuring a safe working environment for our team.

A benefit of this analyzer is its ability to minimize chemical usage. By providing real- time and accurate measurements, it enables us to optimize our chemical dosing processes. The analyzer's advanced technology ensures that we only use the necessary amount of chemicals to maintain safe H2S levels, reducing overtreating and unnecessary expenses.

In addition to its accuracy and chemical usage reduction capabilities, I am pleased to highlight how the H2S Analyzer has significantly contributed to cost savings by eliminating the need for manual testing. Before incorporating this device into our processes, we relied heavily on manual testing methods, which required significant time, resources, and labor.

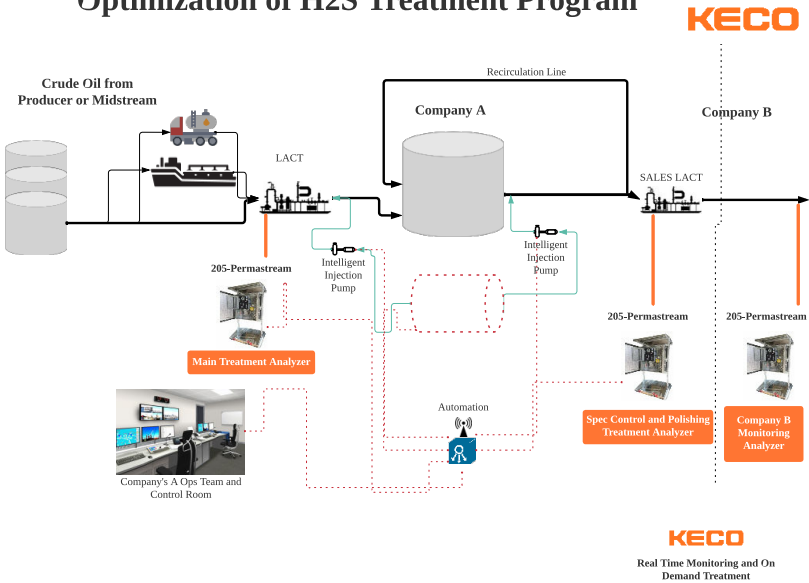
Furthermore, the H2S Analyzer's consistent and reliable measurements have reduced the risk of human error associated with manual testing. This has resulted in increased confidence in the accuracy and reliability of our data, ultimately leading to improved decision-making and more effective resource allocation.”

Christian T.
Ops Manager at Oil Producer in New Mexico



“Graph showing the relationship between H2S levels before and after treatment and chemical rate. The data shows that the readings provided by the analyzer before treatment were accurate enough to make chemical rate adjustments. We stayed within spec the entire time without upsets to our crude treating system.”

Optimization of H2S Treatment Program



DESCRIPTION:

KECO H2S in Crude System Analyzer

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