

CASE STUDY

CS.RE.001

RED-EYE Alerts User of Stuffing Box Leak

LOCATION: SOUTHERN CALIFORNIA
YEAR: 2019
TECHNOLOGY: RED-EYE

CHALLENGE

Stuffing box leaks cause unintentional environmental discharge, leading to regulatory inquiry and cleanup costs.

SOLUTION

The RED-EYE Leak Detection System alerts the user at the first sign of a stuffing box leak and includes a photo to allow for clear understanding of the situation.

RESULTS

RED-EYE was installed to monitor a wellhead. RED-EYE promptly alerted the user of a leak and they were able to dispatch a crew to repair the stuffing box before a drop of oil landed on the ground.

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Red-Eye Leak Detection System
Leak Detected at Well 3D49

Sample RED-EYE Alert



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EARLY LEAK DETECTION SAVES OPERATOR ENVIRONMENTAL REPORT

Stuffing box leaks are a common challenge with pump jack units. Leaks can cause an unintentional discharge of hydrocarbon on the ground resulting in citation and remediation costs. Having personnel travel around to frequently monitor wells is expensive, inefficient, and often impossible. Other solutions are cumbersome, require disassembly, and increase the total cost of ownership and wellhead maintenance. They also still require boots on the ground to verify a leak.



A RED-EYE System

RED-EYE was deployed in an oil field in Southern California, where regulations are particularly stringent, and the operators hold high standards of stewardship. RED-EYE was easily installed within view of the well, leaving ample room for future workover operations. Through the onboard industrial IoT (NUCLEUS) and Tyrion's cloud monitoring, RED-EYE connected to the well's pump off controller.

One early evening, RED-EYE detected a small amount of oil leaking from the stuffing box. RED-EYE immediately sent an alert and photo to the client. With photo confirmation the client had eyewitness detail without requiring boots on the ground. They dispatched their resources



Sample RED-EYE Image

to the location and were able to resolve the leak, avoiding costly remediation with minimal production downtime. RED-EYE allowed our client to remotely and efficiently monitor its wells, eliminating the risk of costly clean up.