



TEXAS TECH UNIVERSITY

Bob L. Herd Department of Petroleum Engineering

June 17, 2024

Kuva Systems
Mr. Jason Bylsma,

Controlled release blind testing for the Kuva GCI360 methane emissions camera has been completed at the Texas Tech University's Oilfield Technology Center (OTC) in Lubbock, TX. This testing was conducted according to "Kuva Continuous Monitoring Test Protocol" Version 1.0. and occurred during the time period of March 11, 2024, to April 30, 2024.

As specified in the Kuva Continuous Monitoring Test Protocol, personnel at OTC continuously monitored and recorded the required data. This data consisted of weather conditions during testing, methane bottle pressures and bottle exchanges, methane flow rate during each test, date and time of beginning and end of each test point, along with comments of any anomaly pertaining to a test point.

Three random methane emission sites were used during this test. These points consisted of an emitter on top of two individual 300 bbl 15' high stock tanks and one emitter on the side of a Vapor Recovery Tower at approximately 10' height. Distance between emitter sites and the Kuva GCI360 camera was approximately 100 meters. A record was kept of the emitter site used for each methane release point used during testing. Release rates for all tests were at a fixed flow rate of 14.8 kg/h

Data from 100 emission tests were used for the final analysis in the calculated Detection Success Ratio. Of these 100 tests, 91 were successfully detected during the corresponding test duration. This yields a 91% success ratio of detection.

Yours truly,

Denny Bullard

Lecturer

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