

Environmental Compression Services, Inc.

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Environmental Laboratory Registration 63-03526

Date: August 18, 2009

Customer: Atlas Pipeline PA, LLC (Laurel Mountain Midstream, LLC)

Westpointe Corporate Center One

1550 Coraopolis Heights Road, 2nd Fl

Moon Township, PA 15108

Facility & Permit No: Springhill Station GP5-26-00587

Test Date: LMM will provide the required Two (2) weeks notice prior to scheduling the test.

Contact: Ms. Katie Maley, Phone No 307-871-2347

Technician: William M. Monroe

Emission Testing Protocol

Test Equipment Information

Manufacturer ECOM America, LTD

Model ECOM A-Plus

Serial Number 9648

Sensor Type Electrochemical Cells

Pollutants Measured NO, NO₂, CO, NMHC(VOC'S)*** & O₂

ECOM Data Acquisition Software (DAS) Program

Factory (O.E.M.) Calibration Performed by ECOM March 2009 [Factory Calibrated every Six (6) Months]

On-Site Pre & Post Test Calibration performed with N.I.S.T. Traceable Certified Gases the day of the Test

Facility and Engine Data Obtained

Area (Springhill Township, Fayette County) and Springhill Station

GP5-26-00587 Issued May 20, 2009 Expires May 31, 2014

Engine Manufacturer: Caterpillar

Model # G3516TALE

Serial # 4EK05095

Aspiration (Four Cycle, Lean Burn)

Unit # 2

Permitted Emission Levels Nox <= 1.50 Grams/bhp-hr CO <= 1.89 grams/bhp-hr VOC <= 0.31 Grams/bhp-hr

Actual Operating Conditions

BHP Load Site Rating: Supplied w/ report BHP (Calculated on-site w/ Ariel OEM 7.6.0.1 Performance Software)

Actual Running Speed (RPM) – Supplied w/ report RPM – 1400 RPM Max rating for Engine on Tachometer

Engine Exhaust Temperature: 854 Deg F (Measured with Analyzer or Reading on Engine Control Panel)

Name Plate Max Rates BHP: 1340 BHP (Stamped on Nameplate with Serial Number)

Intake Manifold Pressure: 69.9 in Hg (abs), Intake Manifold Temperature: 139 Deg F (Engine Control Panel)

Ignition Timing: 33 Degrees Below Top Dead Center (Operator / Mechanic Verified / Engine Control Panel)

Fuel Gas Composition provided by Source Owner (Fuel Sample taken prior to Test Date & provided in Final Report)

Measured Stack Height: Will Measure at Site, Stack Flow: 7651 cfm (OEM Rating)

Specific Fuel Gas Consumption: Measured and Calculated at Site through the Fuel Meter (scf/hr)

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MASS EMISSION CALCULATIONS ARE AS FOLLOWS:

$$E \text{ (LB/HR)} = F_d \text{ (dscf/MMBTU)} \times [20.9/(20.9 - O_2d\%)] \times F_c \text{ (lb/scf)} \times C_d \text{ (ppm)} \times \text{Fuel Consumption (scf/hr)} \times \text{Heat Value (BTU/scf)} \times 0.0000001 \text{ (MMBTU/BTU)}$$

$$E \text{ (TPY)} = E \text{ (lb/hr)} \times 24 \text{ (hr/day)} \times 365 \text{ (days/yr)} \times 1/2000 \text{ (ton/lb)}$$

$$E \text{ (g/hp-hr)} = F_d \text{ [dscf/MMBTU]} \times [20.9/(20.9 - O_2d\%)] \times F_c \text{ [lb/scf]} \times C_d \text{ [ppm]} \times \text{Fuel Consumption [scf/hr]} \times \text{Heat Value [BTU/scf]} \times (1/HP) [1/HP] \times 453.5924 \text{ [g/lb]} \times 0.0000001 \text{ [MMBTU/BTU]}$$

Where:

F_d = dscf/MMBTU (Calculated from entered fuel consumption)

Average Measured $O_2d\%$ = % (Corrected value used if Post-Calibration performed)

F_c (CO) = $7.268e-8$ lb/dscf

F_c (Nox) = $1.194e-7$ lb/dscf

Average Measured CO C_d = ppm (Corrected value used if Post-Calibration performed)

Average Measured Nox C_d = ppm (Corrected value used if Post-Calibration performed)

Fuel Heat Content = BTU/scf (Calculated from fuel composition)

Fuel Flow Rate = scf/hr

HP = HP (HP at time of test)

Conversion factors were calculated at 68 F and 14.696 PSI

Assumptions:

1. Ambient O_2 concentrations 20.9%
2. *** - NMHC or (VOC's) will be determined and submitted as part of the final report through alternate means. Alternate means being defined as a recent fuel analysis, engine and site specifications being provided to the Original Equipment Manufacturer (OEM) and their emission results for this particular pollutant criteria (NMHC) will be displayed as a Vendor guarantee through their in-house engineering software program and will be provided as an Estimated Exhaust Emissions Based on Pipeline Quality Natural Gas and a gas engine technical data sheet and part of the Final Report. This portable analyzer emission test has been performed in identical fashion on similar engines of this make & model and the Regional PA-DEP Pittsburgh Office agreed that VOC/NMHC determination submitted through alternate means (via Vendor Guarantee) is acceptable.

If any questions or concerns arise please contact Environmental Compliance at 724-899-4175.