

Hughes Gas Measurement, Inc.
"a just weight and balance..."

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Automation Solutions -
Measurement Services and Products for
the Petroleum Industry

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HUGHES

GAS MEASUREMENT, INC.

Products and Services

History and Purpose

Hughes Gas Measurement, Inc. (HGMI) was established in 1980 to serve the natural gas industry with honest and accurate measurement of natural gas from gas well testing and wellhead metering to end user metering. We believe the industry requires reliable, knowledgeable, honest, and independent measurement people to aid companies, especially gas producers, in getting a fair deal in the market place. HGMI has made a long standing commitment to this ideal. Quality at a fair price is our goal.

Measurement System Design, Installation, and Repair

HGMI can design, install and repair orifice meter stations for wellhead, pipeline or industrial measurement sites.

Automation and Controls, Web Hosting, Wireless Alarm Monitoring, Flow Computers, PLCs

HGMI installs and maintains wireless and land-line alarm systems for compressors, tank levels, cathodic protection, metering facilities, electrical, water, other industrial equipment, and even mobile equipment.

Alarm monitoring for H₂S, Oxygen and almost any other situation can be accomplished by connecting various types of switches and sensors to the alarm units. Alarm messages can be sent almost anywhere using faxes, telephones, pagers and e-mail.

HGMI is reseller of Metretek, American Innovations Metering-Bullhorn, Telemetric and PMC-Global products.

HGMI services most EFM models and is a sales representative of [Eagle Research Corporation](#), Manufacturer of Industrial Computers including the Low-Cost XARTU/1 Orifice Terminal Unit.

Consulting, Management and Training

Whatever the gas measurement related problem, HGMI offers services for Consulting, Management, and Training; Including expert witness, assistance in contract negotiations, investigation, settlements, measurement training, and system management.

HGMI is able to help you prevent and recover lost gas volumes. Did you really receive compensation for the correct amount measured, or did your gas delivery shrink due to some adjustment? What about the pipeline company's cost cutting and downsizing techniques? How do these techniques effect your sales?

Contrary to popular belief electronic flow computers can hide errors and losses because the human touch (sensors) has been eliminated from most information systems.

Witnessing and Calibration of Orifice Meter Facilities

Measurement is affected by many varying conditions at or near the metering station. HGMI performs thorough inspections in coordination with our client's operations accounting for effects of operating equipment at the site.

Beside the standard measurement report, a separate statement summarizing calculated measurement error is provided to more effectively communicate problem areas. GPS

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longitude and latitude coordinates are recorded for each site and entered into our mapping system for logistics management.

Chart and Data Integration Services, Chart Changing, EFM Data Collection and Auditing Services

Chart changing service quotes are given upon request on a per field basis only.

Electronic flow meter (EFM) data can be collected by any technician and uploaded to the HGMI central office by e-mail.

Validated chart and EFM gas volumes can be quickly reported and posted to our security protected web host allowing the client quick and easy access to available volumes.

Auditing of custody transfer sales points provides checks and balances resulting in the recovery of understated gas volumes.

We perform gas system balances (gain/loss reports) to quickly uncover losses and resolve measurement or operational problems.

Gas Laboratory and Gas Quality Determination

Detailed laboratory gas analyses can be performed to determine heating value, gravity (relative density), component mol percent, etc. Concentrations of **hydrogen sulfide**, water vapor, carbon dioxide and various other contaminants can be determined using chemical absorption analysis. Special testing for dew point determination using a hygrometer to measure **water vapor content** in the gas stream is also available. **Oxygen analyses** can be performed at the site to determine the source of contamination.

Gas Well Testing: State Tests, Back-Pressure and Deliverability

HGMI performs Back-pressure Tests (Single and Multi-point), Deliverability Tests and State Allowable Tests.

Wells can be tested before connections are made to pipelines to determine economic feasibility.

Low-Cost Capture of Wellhead Production Data with Hand-held Computer

Data Resource Systems, LLC offers oil & gas businesses like yours, an affordable means of managing your well operations with time-relative information. The DRS-Pumper system requires a very small investment. This allows you to make your decision as to when you should move into the realm of automation and controls while losing little, if any of your investment. This system accurately processes lease data and makes it available for use within 24 hours of being recorded in the field.

Gas Volume Calculation Software

Now easily validate stated volumes from flow computers, chart meters or volume statements. The **DRS** AGA Gas Volume Calculator Version 5.0 makes calculation of AGA formulae for linear, square root, and percentage readings a snap. Windows and DOS versions are available.

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Postage

ADDRESS CORRECTION REQUESTED

To:

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