



Oryx Energy Company  
24 Smith Road  
PO Box 1861  
Midland TX 79702-1861  
915 688 0300

November 13, 1989

Southwestern  
Production Region

Bureau of Land Management  
P. O. Box 1778  
Carlsbad, New Mexico 88220

RE: Notification of Intent to Install  
Electronic Flow Measurement  
Ojo Chiso Fed. No. 1  
Ojo Chiso (Morrow) Field  
26, T-22-S, R-34-E  
C, 990' FN x 2310' FWL  
Lea County, New Mexico

Gentlemen:

By this letter, Oryx Energy Company is notifying The Bureau of Land Management of its intent to install electronic flow measurement.

The measurement device shall be utilized as a checking device on the El Paso custody transfer meter for the sale of gas from the Ojo Chiso Fed. #1 Lease, located in Sec. 26, T-22-S, R-34-E, in Lea County, New Mexico.

The electronic flow measuring device will be an Applied Automation, Inc. Totalflow Model 6610 Unit (specification sheet attached). This device shall be installed on a 4" meter run and shall have a 1000 psig static pressure and 100" differential pressure. The unit shall be equipped with a microprocessor-based transducer temperature compensator, and an RTD probe and 4" therowell.

The installation shall be in accordance with AGA No. 3 guidelines. The Model 6610 is capable of 35 days of hourly record data storage and is capable of monitoring and logging unusual conditions.

The audit records of hourly volume data, meter identification data, etc. shall be retained in the Oryx Energy Company, Dallas, Texas office. A meter identification sheet shall be located on-site.

Please advise if additional information is required.

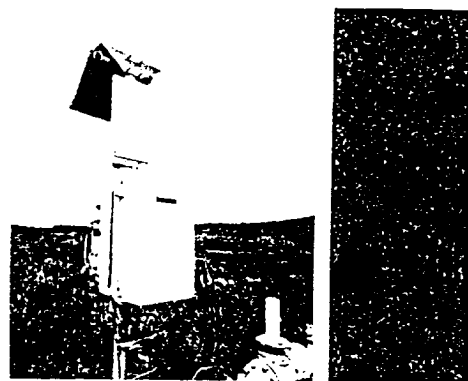
Sincerely,

Maria L. Perez  
Accountant/915-688-0375

CC: Oil Conservation Division  
P. O. Box 1980  
Hobbs, New Mexico 88241-1980

# TOTALFLOW<sup>®</sup>

## TOTALFLOW 6610 FLOW COMPUTER UNIT SPECIFICATIONS



The Flow Computer Unit is designed to replace or be used in lieu of a mechanical circular chart to calculate and store AGA-3 volume as well as differential pressure, static pressure and temperature records.

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**Ruggedly Constructed**

Designed as field instrument, packaged in a NEMA-4 cast aluminum-alloy. Operating temperature range  $-40^{\circ}\text{F}$  to  $+140^{\circ}\text{F}$ .

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**Fast Installation**

Flow Computer Unit (Transducer, Microprocessor, Batteries, Charging Unit) is a self-contained unit which can be quickly mounted on a meter run with no external power required.

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**Transducer Calibration**

All calibration and maintenance is accomplished with the model 6620 or Model 6625 Portable Calibration/Collection Unit (PCCU).

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**35 Days' Data Storage**

The Flow Computer Unit stores hourly records of Volume, Average Absolute Static Pressure, Average Differential Pressure, and Average Flowing Temperature. Raw data (P, dP, and T) are sampled at one second intervals in order to accurately follow variations in flow. In addition a record is kept of all entries which affect the volume calculation.

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**Data Gathering**

Data can be collected from the FCU using the Totalflow 6620 PCCU, 6625 PCCU, 6626 Portable Collection Unit, and 6630 Mobil Collection Unit. In addition, modem or radio installation kits can be purchased to allow remote data collection.

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**Low Power Requirements**

100 milliwatts power consumption allows for up to 30 days of operation in the absence of battery charging power.

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**Battery Charging**

The batteries are charged by optional thermoelectric generator, solar panels, or conventional AC power.

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**Reliable**

Environmental testing and Quality Assurance programs provide reliability unequalled in the industry.

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<b>LCD Indicator</b>	An 8-digit display is provided to allow on-site observation of Instantaneous Differential Pressure, Instantaneous Static Pressure, Hourly Volume, Flowing Temperature, Battery Voltage, Time and Alarms. The display may be configured to scan through several variables automatically. All quantities are displayed in engineering units.
<b>Accuracy</b>	The Flow Computer Unit is calibrated to an overall error of less than $\pm 0.25\%$ of full scale, with a temperature coefficient of better than $\pm 0.01\%/F$ over the full ambient temperature range. The microprocessor and transducers used provide accuracy which is not obtainable by mechanical chart recorders.
<b>Flow Calculations</b>	The Flow Computer Unit utilizes integral pressure transducers to measure Differential Pressure and Static Pressure. An optional Temperature Probe may be installed to measure flowing temperature. Measured data enable the Flow Computer Unit to perform calculations and store data. All flow calculations are performed per AGA-3 and NX19 requirements.
<b>Monitors Unusual Conditions</b>	The Flow Computer Unit also continuously monitors the site for unusual conditions and maintains a record for later interpretation, such as over and under ranging and loss of charging power.
<b>Access Security</b>	A four-digit security code can be used to prevent unauthorized access. When used, the security code applies to both calibration and data collection.
<b>Well Log Codes</b>	A total of 256 user defined well log codes are available for on-site documentation of other conditions beyond the standard measurement, event and alarm records.
<b>Witnessing Features</b>	'As found' conditions for differential and static pressure can be recorded in the event record in order to document contract compliance.
<b>Contact Closures</b>	The standard flow computer includes one optically isolated remote voltage sense input and one programmable relay with a form C contact output.
<b>Weight</b>	Approximately 60 pounds, depending on options.
<b>Dimensions</b>	18" x 11.5" x 12".
<b>Transducer Ranges</b>	Transducers are available up to 250 inches of water of differential pressure and up to 1500 pounds of static pressure.

**APPLIED AUTOMATION, INC.**

777 Benmar, Suite 400, Houston, TX 77060

Texas 1-800-392-5599/U.S. 1-800-341-3009