Ohio | Public Utilities Commission

Online Application for Certification as an Eligible Ohio Renewable Energy Resource Generating Facility

Case Number: 14-1515-EL-REN

A. Generating Facility

Name of Renewable Generating Facility: Coal Gas Transportation, LLC
The name specified will appear on the facility's certificate of eligibility issued by the Public Utilities Commission of Ohio.

Facility Location
Street Address: 46565 Upper Clear Fork Road
City: Cadiz **State:** OH **County:** Harrison **Zip Code:** 43907

Facility Latitude and Longitude
Latitude: 40.280640 **Longitude:** -80.96651
There are internet mapping tools available to determine the latitude and longitude, if you do not have this information.

If applicable, U.S. Department of Energy, Energy Information Administration Form EIA-860 Plant Name and Plant Code.

EIA-860 Plant Name: N/A
EIA Plant Code: N/A

B. Legal Name of the Facility Owner

Please note that the facility owner name listed will be the name that appears on the certificate.
The address provided in this section is where the certificate will be sent.
If the facility has multiple owners, please provide the following information for each on additional sheets.

Legal Name of the Facility Owner: Coal Gas Transportation, LLC
Legal Name of Facility Owner Representative: Mark, O'Brien
Title: President
Organization: N/A
Street Address: 11405 Park Road, Suite 180
City: Anchorage **State:** KY **Zip Code:** 40223
Phone: 502-228-9698 **Fax:** 502-228-7016
Email Address: info@cbmethane.com
Web Site Address (if applicable):

C. List the name, address, telephone number and web site address under which the Applicant will do business in Ohio

Legal Name of Facility Owner Representative: Mark, O'Brien
Title: President
Organization: N/A
Street Address: 11405 Park Road, Suite 180
City: Anchorage **State:** KY **Zip Code:** 40223
Phone: 502-228-9698 **Fax:** 502-228-7016
Email Address: info@cbmethane.com
Web Site Address (if applicable):

D. Name of Generation Facility Operating Company

Name of Generation Facility Operating Company: Coal Gas Transportation, LLC
Legal Name of Contact Person: Robert L. Griffin
Title: General Manager
Organization: N/A
Street Address: 46565 Upper Clearfork Road
City: Cadiz **State:** OH **Zip Code:** 43907
Phone: 740-942-2500 **Fax:** 740-942-4800
Email Address: bob@cbmethane.com
Web Site Address (if applicable):

Name of Generation Facility Operating Company: Coal Gas Transportation, LLC
Legal Name of Contact Person: Robert L. Griffin
Title: General Manager
Organization: N/A
Street Address: 46565 Upper Clearfork Road
City: Cadiz **State:** OH **Zip Code:** 43907
Phone: 740-942-2500 **Fax:** 740-942-4800
Email Address: bob@cbmethane.com
Web Site Address (if applicable): www.cbmohiorenewable.com

E. Regulatory/Emergency Contact

Legal Name of Contact Person: Robert L. Griffin
Title: General Manager
Organization: N/A
Street Address: 46565 Upper Clearfork Road
City: Cadiz **State:** OH **Zip Code:** 43907
Phone: 740-942-2500 **Fax:** 740-942-4800
Email Address: bob@cbmethane.com
Web Site Address (if applicable):

F. Certification Criteria 1: Deliverability of the Generation into Ohio

Ohio Revised Code (ORC) Sec. 4928.64(B)(3)

The facility must have an interconnection with an electric utility.

Check which of the following applies to the facility's location:

Yes The facility is located in Ohio.

No The facility is located in a state geographically contiguous to Ohio (IN, KY, MI, PA, WV).

No The facility is located in the following state:

(If the renewable energy resource generation facility is not located in Ohio, Indiana, Kentucky, Michigan, Pennsylvania, or West Virginia, you are required to submit a POWER FLOW study by one of the regional transmission organizations (RTO) operating in Ohio, either PJM or Midwest ISO, demonstrating that the power from the facility is physically deliverable into the state of Ohio. This study must be appended to the application as an exhibit. THE FACILITY MUST BE INTERCONNECTED TO TRANSMISSION LINES. FOR ADDITIONAL INFORMATION ON DELIVERABILITY REQUIREMENTS, PLASE REFER TO THE COMMISSION FINDING & ORDER of 3/23/11 IN CASE NO. 09-555-EL-REN.)

G. Certification Criteria 2: Qualified Resource or Technology

You should provide information for only one resource or technology on this application; please check and/or fill out only one of the sections below. If you are applying for more than one resource or technology, you will need to complete a separate application for each resource or technology.

G.1. For the resource or technology you identify in Sections G.4 - G.13 below, please provide a written description of the system.

Methane is the product of geochemical transformation of organic substances that form coal. The methane and carbon dioxide produced during this process are released as free gases in cracks, crevices and pores and as adsorbed gases (condensed gas on the surface) entrapped within coal seams and the adjoining rock. After coal mines are abandoned, they continue to release methane at a near-steady rate over an extended period of time. Mines "breathe", sucking in air from the atmosphere on high pressure days, and "breathing out" methane on low pressure days through leaky seals and natural fissures in the ground. Abandoned mine methane extraction facilities harness this naturally escaping gas for constructive use as an energy source.

Coal Gas Transportation LLC (CGT) operates an abandoned coal mine methane extraction facility near Cadiz in Harrison County, Ohio. This facility formed part of the University of Cincinnati's renewable energy generation system that was approved by PUCO in case number EL REN 10-1382. The facility removes methane from three (3) separate but adjacent abandoned coal mines: Nelms#1, Hopedale Mining Nelms #2, and Hopedale Mining Cadiz Portal. The prior owners of the facility initially began capturing methane from the Nelms #1 mine in 1992 and expanded operations in the early 2000's to include methane extraction from the Nelms #2 mine. The current owners of the facility began extracting methane from the Hopedale Mining Cadiz Portal in 2010.

Each of the three (3) abandoned mines is leased by an affiliate of CGT: Cadiz Methane Extraction LLC (CME) leases the Hopedale Mining Nelms #2 mine, CBM Ohio LLC (CBM) leases the Nelms #1 mine, and Cadiz Methane Recovery LLC (CMR) leases the Hopedale Mining Cadiz Portal mine. CGT contracts with CME, CBM and CMR to extract the gas from the mines into CGT's centralized pipeline system. The twenty-six (26) wells, main compressor, gas meters, and thirty-five (35) miles of pipeline that make up CGT's methane extraction facility are depicted on the attached map and schematic.

CGT uses electric and gas compressors at each individual well head to create a vacuum that sucks methane out of wells drilled into the voids created by prior mining activities. The methane captured from twenty-three (23) of the facility's wells then flows through the company's sealed pipeline gathering system to its main compression station, where the methane is blended with natural gas, which is obtained from a third party. A large compressor housed in the main compression station increases the pressure in the pipeline, enabling the blended gas to be pumped through a four (4) inch steel pipeline (the "sales line") for approximately 9.5 miles to the Dominion East Ohio (DOE) pipeline, TPL 15, just north of Cadiz, OH. Between the main compressor station and TPL 15, methane from three (3) additional wells joins the blended gas in the sales line before being ultimately delivered to TPL 15. Dominion East Ohio then blends CGT's gas again with high btu natural gas to ensure that it conforms with pipeline quality standards before delivering the final product onto the public transportation system. CGT does not maintain any storage facilities but pumps all the methane directly through to Dominion East Ohio.

CGT plans to assign the renewable energy credits (REC's) it receives to an affiliate company, Cadiz Portal Extraction LLC (CPE), which is registered with the Generation Attribute Tracking System (GATS). CPE will then sell the credits on the open market. CPE registered with GATS as a trader in November 2011, in connection with a limited term contract to sell RECS to Dayton Power and Light. CPE has not traded in RECS on GATS since the termination of its contract with Dayton Power and Light in January 2014, but it currently remains registered with GATS.

G.2. Please include a detailed description of how the output of the facility is going to be measured and verified, including the configuration of the meter(s) and the meter type(s).

CGT employs extensive measurement and verification measures. After methane is extracted from the facility's wells, the volume of gas being extracted is measured by a dedicated meter near the individual well heads prior to entering CGT's centralized methane pipeline gathering system. The methane then flows through the facility's gathering system of methane pipelines. The volume of third party gas is likewise metered as it flows into the system. Check meters are used at various points along CGT's pipelines to measure overall volume of gas flowing through the system. The total output of gas from the facility is ultimately measured by meters placed just prior to the end of CGT's pipeline, before it joins with the Dominion East Ohio (DOE) pipeline, TPL 15. In addition, DOE maintains its own meter tracking the input from CGT's pipeline just after it feeds into TPL 15. The longitude, latitude, meter type and serial number of each of the facility's meters are identified on the attached chart.

CGT employs industry standard meters, relying on either a battery powered Model 202E Cameron International Corporation Barton Chart Recorder paper chart meter ("Barton Meters") or a HIP6000 SilverSmith Inc. electronic meter ("SilverSmith Meters") to continually measure and record the volume of gas flowing through the system. Technical specifications for each of the meter types relied on by CGT are attached hereto. The company's Barton Meters and SilverSmith Meters represent the industry standard for gas measurement and are calibrated to the relevant manufacturer's specifications on a regular yearly basis by third party certified technicians. The most recent calibration occurred August 13, 2014.

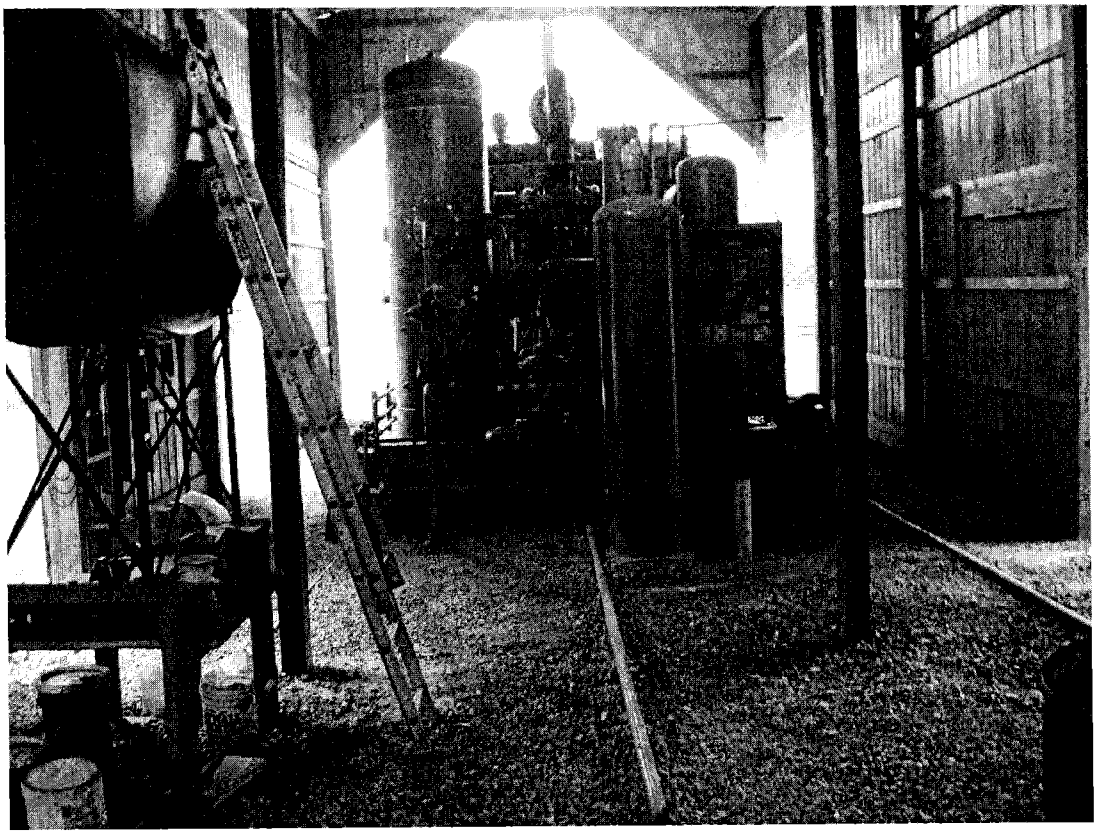
The total methane gas output of the facility can be measured by simple displacement; the volume of blended methane and natural gas exiting the system at the end of CGT's pipeline prior to its entry into DOE's pipeline, TPL 15, recorded by Meter B, can simply be subtracted from the volume of pure third party natural gas entering the system from RoseValley, recorded by Meter G. At both of these points, CGT uses one of each type of meter, a Barton Meter and a SilverSmith Meter, to ensure a back up in the unlikely event of an electrical outage or technical failure.

The accuracy of the gas measurements recorded by the facility's Barton Meters and the SilverSmith Meters are verified by third parties. The paper charts produced by the Barton Meters are submitted to a third party vendor, Gas Analytical Services, on a monthly basis, which then records and verifies measurements. The SilverSmith Meters likewise record gas volumes daily, which are transmitted over the internet to SilverSmith Inc.'s secure server, where the reported information is verified by SilverSmith's employees. Gas Analytical Services and SilverSmith Inc. report the total volumes from each meter to CGT, which relies solely on the data these independent third parties provide to generate monthly volumetric reports concerning the output of methane gas produced by the facility.

Per the language of the recently adopted S.B. 310, O.R.C. Section 4928.645 (B)(1) has been amended to reflect that "for purposes of converting the quantity of energy derived from biologically derived methane gas to an electricity equivalent, one megawatt hour equals 3,412,142 British thermal units." Given that 1,000 million cubic feet (MCF) of the facility's methane has an energy equivalent of 700 british thermal units (BTU), it is CGT's understanding that, per the language of the revised code, each MCF of methane generated by its facility should equal .205 megawatts. Therefore, approximately 4.9 MCF of the facility's methane would be equivalent to 1 megawatt hour of electricity.

G.3. Please submit digital photographs that depict an accurate characterization of the renewable generating facility. Please indicate the date(s) the photographs were taken. For existing facilities, these photographs must be submitted for your application to be reviewed. For proposed facilities or those under construction, photographs will be required to be filed within 30 days of the on-line date of the facility.

July 16, 2014



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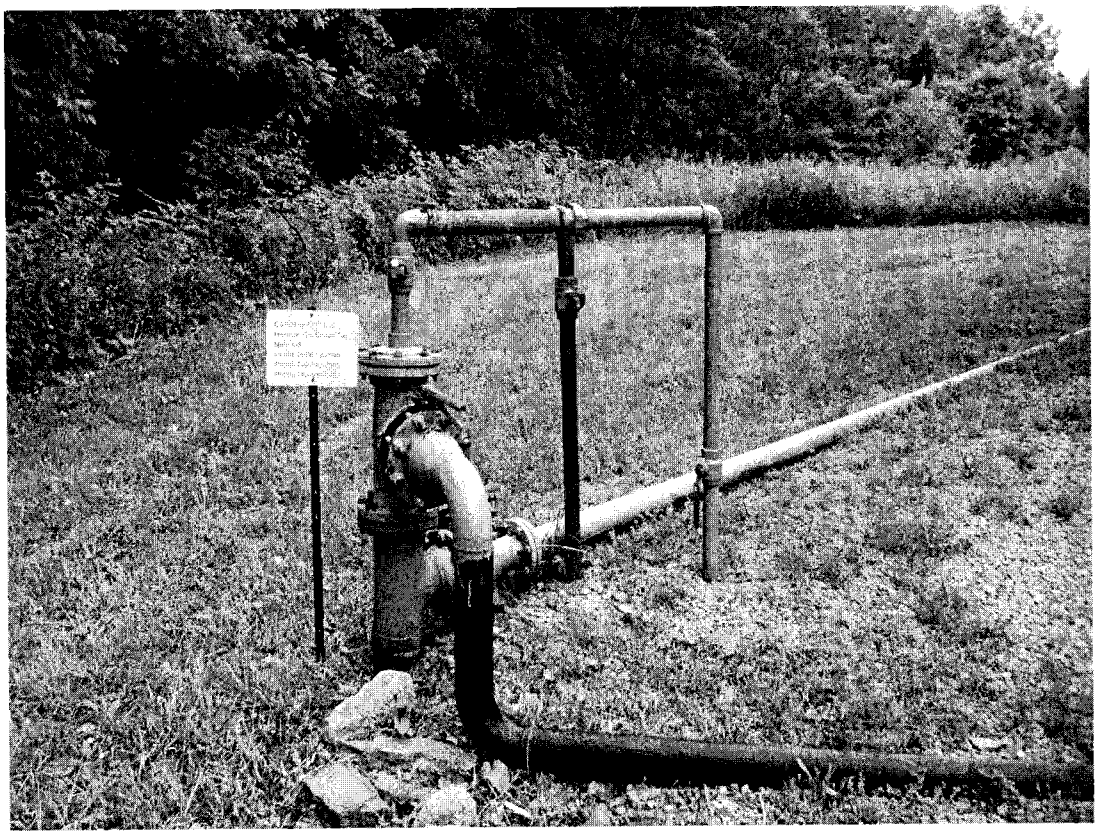

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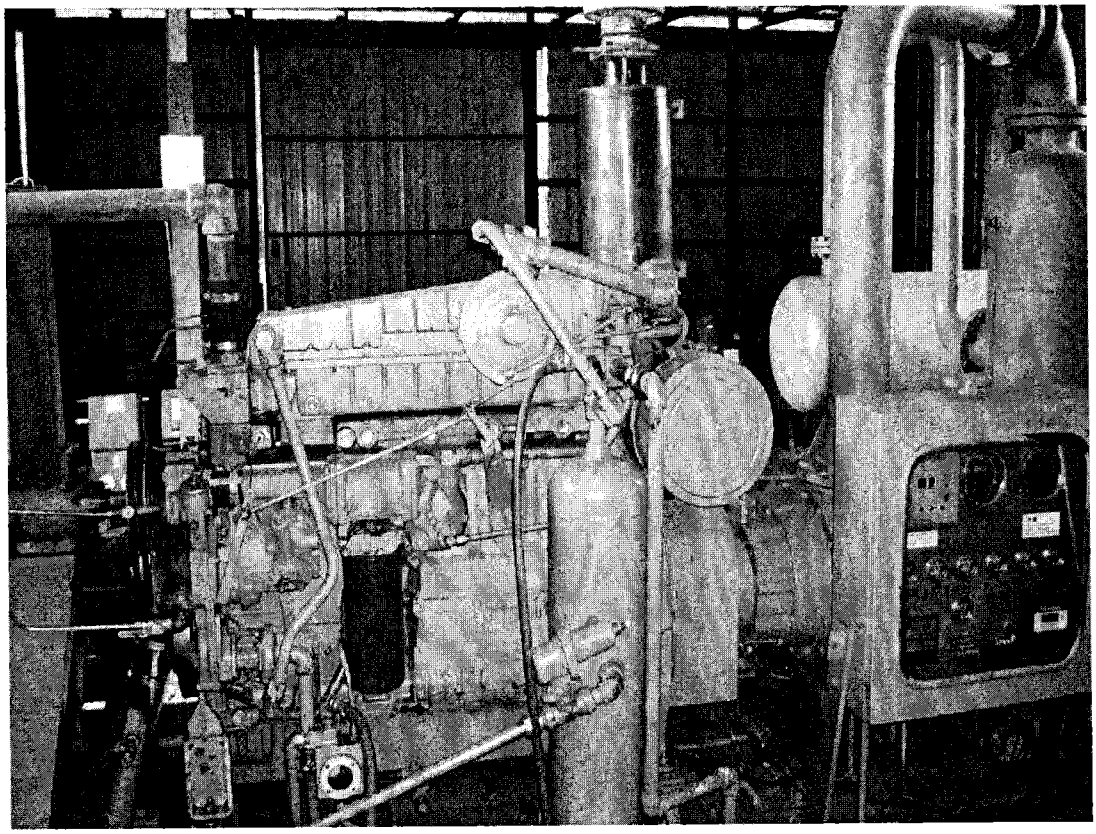

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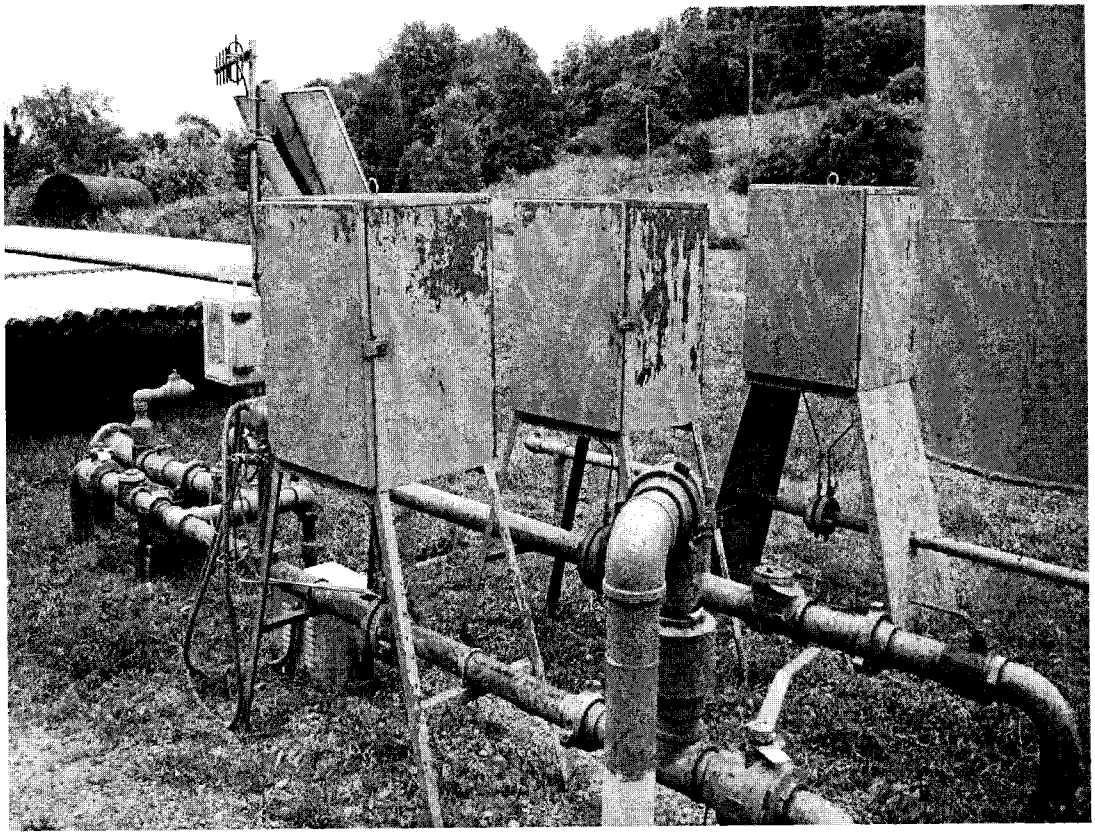
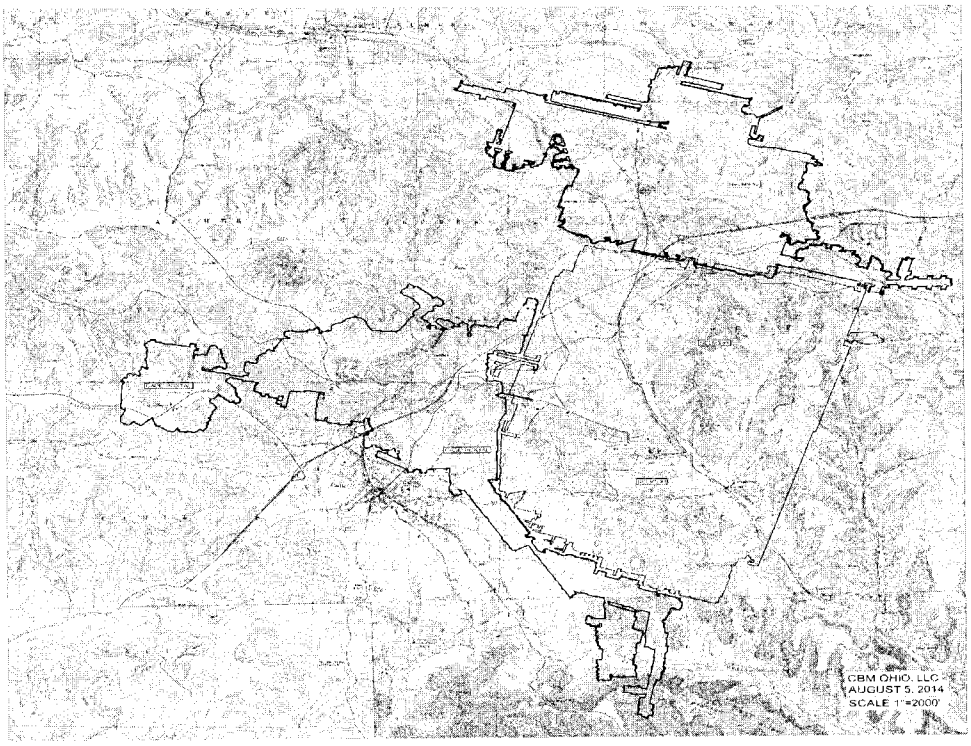
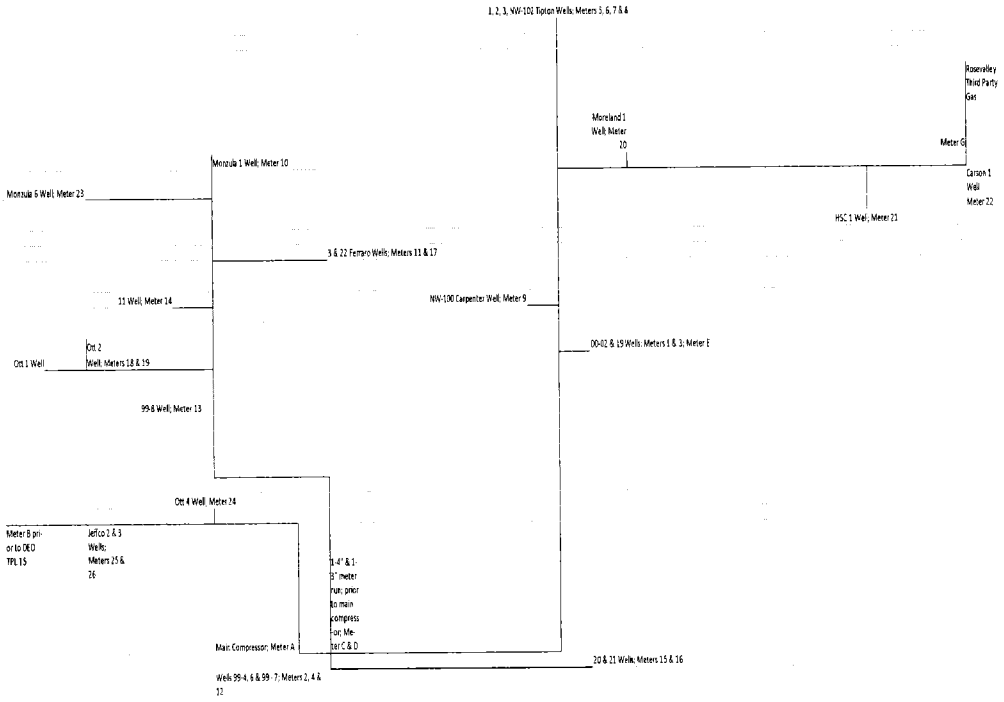




August 29, 2014



G.13 __ ABANDONED COAL MINE METHANE

For the abandoned coal mine that is the source of the methane, provide the following:

A. Mine name (if known): Nelms #1 (Abd 1979);
Hopedale Mining Nelms #2 (Abd 1980);
Hopedale Mining Cadiz Portal (Abd 2007)

B. Location of methane extraction point(s)
Latitude: 40.295117
Longitude: -80.945248

C. Year mine was abandoned (if known): 1,979

H. Certification Criteria 3: Placed-in-Service Date (Sec. 4928.64. (A)(1) O.R.C.)

The Renewable Energy Facility:

Yes has a placed-in-service date before January 1, 1998; Date: **1/1/92**

No has a placed-in-service date on or after January 1, 1998; Date:

No has been modified or retrofitted on or after January 1, 1998; Date:

Please provide a detailed description of the modifications or retrofits made to the facility that rendered it eligible for consideration as a qualified renewable energy resource. In your description, please include the date of initial operation and the date of modification or retrofit to use a qualified renewable resource. Please include this description as an exhibit attached to your application filing and identify the subject matter in the heading of the exhibit.

No Not yet online; projected in-service date:

H.1 Is the renewable energy facility owner a mercantile customer? No

ORC Sec. 4928.01 (19) "Mercantile customer" means a commercial or industrial customer if the electricity consumed is for nonresidential use and the customer consumes more than seven hundred thousand kilowatt hours per year or is part of a national account involving multiple facilities in one or more states.

Has the mercantile customer facility owner committed to integrate the resource under the provisions of Rule 4901:1-39-08 O.A.C? No

If yes, please insert/submit a copy of your approved application as an exhibit to this filing.

I. Facility Information

I.a The nameplate capacity of the entire facility kilowatts (kW): 0.00 **(megawatts (MW):** 0)

I.b If applicable, what is the expected heat rate of resource used per kWh of net generation:
0 BTU/kWh

I.1 For each generating unit, provide the following information:

Unit In-Service Date	Unit Nameplate Capacity (MW)	Projected Gross Annual Generation	Expected Annual Capacity Factor %	Number of Generating Units
1/1/92	1	1	0.0	0

$$\text{Capacity Factor \%} = \frac{\text{Projected Annual Generation}}{\text{Nameplate Capacity} \times 8{,}760} \times 100$$

J. Regional Transmission Organization Information

In which Regional Transmission Organization area is your facility located:

Yes Within Geographic Area of PJM Interconnection, L.L.C.

No Within Geographic Area of Midwest ISO

No Other (specify):

K. Attribute Tracking System Information

Are you currently registered with an attribute tracking system: No

In which attribute tracking system are you currently registered or in which do you intend to register ***(the tracking system you identify will be the system the PUCO contacts with your eligibility certification):***

Yes GATS (Generation Attribute Tracking System)

No M-RETS (Midwest Renewable Energy Tracking System)

Other (specify):

K.1 Enter the generation ID number you have been assigned by the tracking system:
(If the generation ID number has not yet been assigned, you will need to file this number in the PUCO Case Docket within 15 days of the facility receiving this number from the tracking system).

K.2 Has any of the generation of the facility been tracked as RECS that have been sold or otherwise consumed? No

L. Other State Certification

Is the facility certified by another state as an eligible generating resource to meet the renewable portfolio standards of that state? No

L.1 If yes, for each state, provide the following information:

Name of State	State Certification Agency	State Certification Number	Certification Date Issued

M. Type of Generating Facility

Please check all of the following that apply to the facility:

No Utility Generating Facility:

No Investor Owned Utility

No Rural Electric Cooperative

No Municipal System

No Electric Services Company (competitive retail electric service provider certified by the PUCO)

No Distributed Generation with a net metering and interconnection agreement with a utility.
Identify the Utility:

No Distributed Generation with both on-site use and wholesale sales.
Identify the Utility:

Yes Distributed Generation, interconnected without net metering.
Identify the Utility: **This section is not applicable.**

N. Meter Specifications

Metering Requirements

1. If the renewable energy resource generating facility is 6 kW or below, the output may be measured with either an inverter meter or a utility grade meter.

2. All facilities that are larger than 6 kW must measure the output of the facility with a utility grade meter. Facilities that are larger than 6 kW and that are not measuring output with a utility grade meter will not be certified. OAC 4901:1-40-04 *(D)(1)*

3. Please only report on the meter or the meters used to measure the output from the facility which will be reported to the attribute tracking system.

N.a The meter(s) that are measuring output from the facility are:

No Inverter Meter(s)

Yes Utility Grade Meter(s) *(Must meet ANSI 12.1, or demonstrate an accuracy level of ± 2%)*

N.1 Please provide the following information for each meter used in your system.

N.1.a Manufacturer: Cameron International Corporation

N.1.b Serial Number: B-412540

N.1.c Type: Barton Chart Recorder Model 202E

N.1.d Date of Last Certification: August 13, 2014

Attach a photograph of the meter(s) with date image taken. The meter reading(s) must be clearly visible in the photograph.

N.1.e Report the total meter reading number at the time the photograph was taken and specify the appropriate unit of generation (e.g., kWh): 000000000

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CAMERON

TECHNICAL SPECIFICATIONS

BARTON Chart Recorders
Models 202E, 202N, 242E and J8A

Cameron's BARTON® chart recorders are the industry standard for accurate, reliable measurement and recording of pressure, differential pressure and temperature in a variety of applications. In addition, DP models utilize BARTON rupture-proof bellows DPU as the actuating unit – and DP models have features like overrange protection and pulsation dampening (on some models).

Common Components

- **Case** – The case is made of rugged, lightweight die-cast aluminum that features a built-in rainshield. It is finished in polyurethane electrostatic powder paint that has a high resistance to weathering, scratches, and industrial fumes. An aircraft-type door hinge (made of 302 SST) provides excellent resistance to salt spray and H_2S. The seal between the door and the case is made of neoprene, a material that is non-absorbant and resistant to oils and most solvents.
  - Optional "S" versions use a stainless steel case or a corrosion-resistant offshore coating for harsh, saltwater environments.
- **Chart Drive** – Chart drives are available in battery and spring-wound versions with a wide variety of chart speeds. All chart drives have a simple, positive chart lock hub and are interchangeable.
- **NUFLO™ Charts** – The charts are made from wood-free paper – a special, low-shrinkage, high quality product that eliminates eccentric and elliptical errors. Charts are shrink-wrapped to help maintain the factory default size until the package is opened by the user. Once a box of charts is opened, it can be stored in the supplied, plastic, resealable storage bag.
- **Recording Mechanism** – All parts are stainless steel for long life. The pen mount is exceptionally rugged and pen shafts are fitted with ball pivots to minimize friction. All links are adjustable, with micrometer adjustments for accurate calibration. All adjustments have screwdriver slots to simplify calibration. Disposable pens are standard.
- **Pressure Elements** – Used in Models 202E, 242E and J8A are precision wound helical-type available in a variety of materials – pressure ranges up to 30" mercury vacuum (up to 14.7 psi/1 bar), up to 30,000 psi (up to 2068 bar). The Model 202N uses a K-monel element – pressure ranges up to 250 psi (up to 17 bar), up to 6000 psi (up to 414 bar). Connections available in 1/4" NPT for ranges less than 10,000 psi (689 bar). Ranges greater than 10,000 psi (689 bar) utilize an Aminco 9/16–18 (1/4" ODT) female connection.
- **Thermal Systems** – The systems consist of a bourdon tube, a capillary with stainless steel armor and a bulb with a bendable extension. All parts are stainless steel. Systems are available in Class V (mercury fill with an 11/16" OD bulb) or Class I (hydrocarbon fill with a 3/8" OD bulb). Temperature ranges for each design are listed below. A thermal system must have a span of more than 50° F (27° C) and the high temperature limit must be greater than 95° F (35° C).
  - **Class VA** (fully compensated) -40° F to 600° F (-40° C to 315° C)
  - **Class VB** (case compensated) -40° F to 600° F (-40° C to 315° C)
  - **Class IA** (fully compensated) – temperature range varies with fill material
    - Ethyl-benzene: -125° F to 350° F (-87° C to 177° C)
    - Kerosene: -20° F to 500° F (-29° C to 260° C)
    - Alcohol: -200° F to 150° F (-129° C to 66° C)
  - **Class IB** (case compensated) – temperature range varies with fill material
    - Ethyl-benzene: -125° F to 350° F (-87° C to 177° C)
    - Kerosene: -20° F to 500° F (-29° to 260° C)
    - Alcohol: -200° F to 150° F (-129° C to 66° C)
  - **Accuracy** ± 1.0% of F.S.
  - **Hardware** Capillary standard length is 10' (additional lengths available)

CAMERON

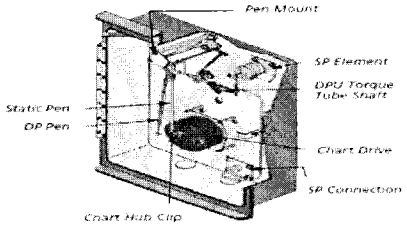
Models 202E (DP)

The 202E is a 12" chart recorder that has been used widely in gas transmission and distribution fields because of its accurate calibration, even under extreme variations in static pressure and ambient temperatures.

The 202E is available in 1 to 4 pen configurations (DP+3 additional pens). The additional pens can be used to record temperature and supplemental pressure data.

The unit is actuated by a BARTON Model 199 DPU, with standard and NACE units available (up to 4500 psi/310 bar SWP) – see DPU bulletin #21700 for details. Static pressure and temperature pens are actuated by precision wound elements (see page 1).

Main Components



Specifications	
Safe Working Pressure	up to 6000 psi (414 bar)
DP Ranges	up to 10" w.c. up to 100 PSID (up to 25 mbar, up to 6.9 bar)
Accuracy	± 0.5% F.S.
Temperature Limits	-40° F to 180° F (-40° C to 82° C)

Model 202N (DP) (NACE)

The 202N is a 12" chart recorder designed to measure flow, static pressure and temperature in sour gas applications. The 202N meets all NACE requirements for H2S environments, per MR-01-75 (1991 Revision) – SWP up to 2000 psi (138 bar).

For ranges between 2000 psi (138 bar) and 4500 psi (310 bar), see optional NACE version of M202E.

The 202N is actuated by BARTON's M199 NACE DPU. Static pressure measurements are provided by precision wound K-monel helical-type elements.

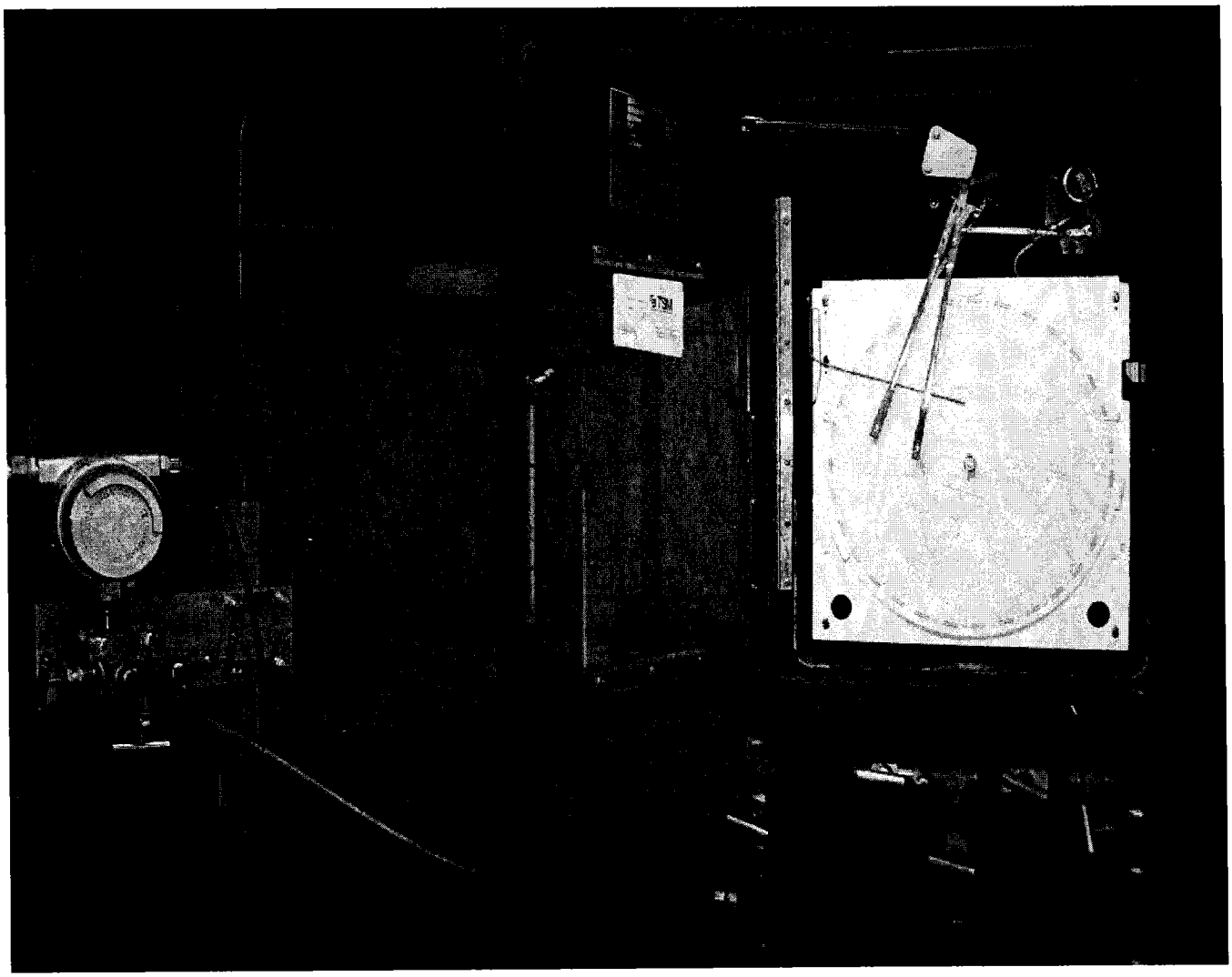
- All other features and benefits are the same as the 202E

Specifications	
Safe Working Pressure	up to 2000 psi (138 bar)
DP Ranges	up to 10" w.c. up to 100 PSID (up to 25 mbar, up to 6.9 bar)
Accuracy	± 0.5% F.S.
Temperature Limits	-40° F to 180° F (-40° C to 82° C)

Model 242E (Temperature/Pressure)

The 242E is a 12" chart temperature and pressure recorder designed for general pressure applications.

Specifications	
Pressure Element Range	up to 30,000 psi (2068 bar)
Accuracy	± 1.0% F.S.
Temperature Limits	-40° F to 180° F (-40° C to 82° C)



N.a The meter(s) that are measuring output from the facility are:

No Inverter Meter(s)

Yes Utility Grade Meter(s) *(Must meet ANSI 12.1, or demonstrate an accuracy level of ± 2%)*

N.1 Please provide the following information for each meter used in your system.

N.1.a Manufacturer: Cameron INternational Corporation

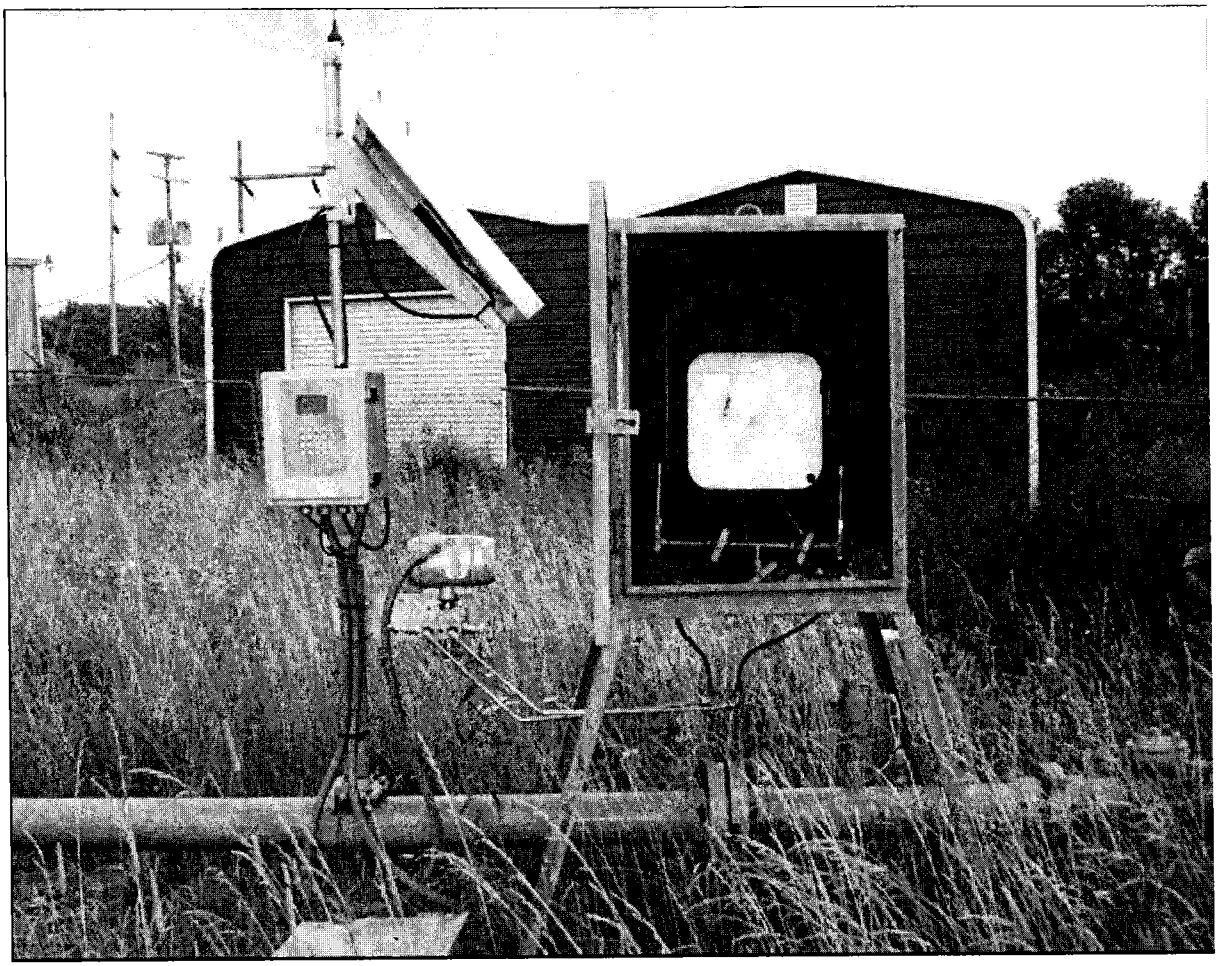
N.1.b Serial Number: B-202E-409398

N.1.c Type: Barton Chart Recorder Model 202E

N.1.d Date of Last Certification: August 13, 2014

Attach a photograph of the meter(s) with date image taken. The meter reading(s) must be clearly visible in the photograph.

N.1.e Report the total meter reading number at the time the photograph was taken and specify the appropriate unit of generation (e.g., kWh): 00000000000000



N.a The meter(s) that are measuring output from the facility are:

No Inverter Meter(s)

Yes Utility Grade Meter(s) *(Must meet ANSI 12.1, or demonstrate an accuracy level of ± 2%)*

N.1 Please provide the following information for each meter used in your system.

N.1.a Manufacturer: SilverSmith Inc.

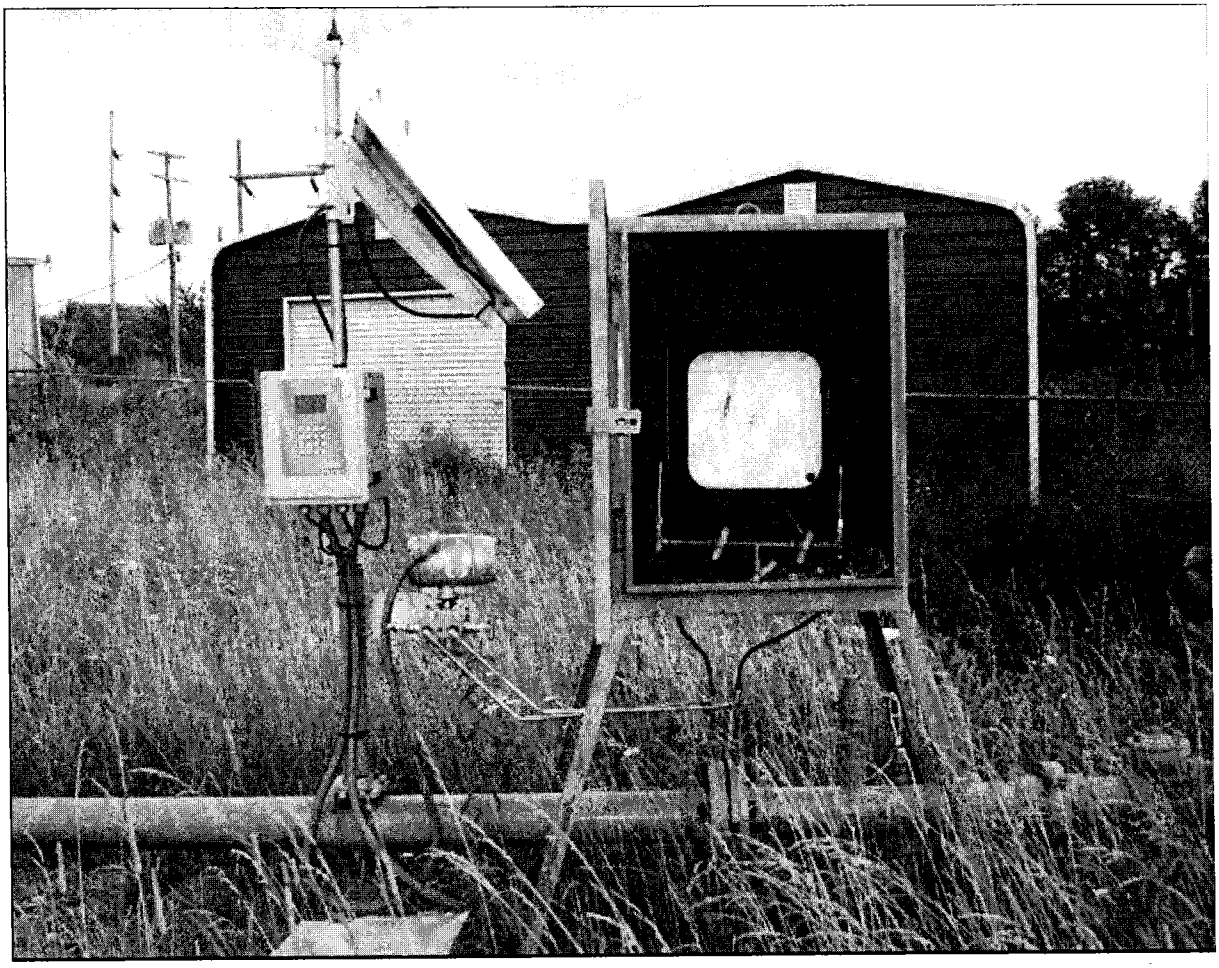
N.1.b Serial Number: S-01-06-9104

N.1.c Type: HIP6000 Electronic Meter

N.1.d Date of Last Certification: August 13, 2014

Attach a photograph of the meter(s) with date image taken. The meter reading(s) must be clearly visible in the photograph.

N.1.e Report the total meter reading number at the time the photograph was taken and specify the appropriate unit of generation (e.g., kWh): 000000000000



N.a The meter(s) that are measuring output from the facility are:

No Inverter Meter(s)

Yes Utility Grade Meter(s) *(Must meet ANSI 12.1, or demonstrate an accuracy level of ± 2%)*

N.1 Please provide the following information for each meter used in your system.

N.1.a Manufacturer: SilverSmith Inc.
N.1.b Serial Number: S-01-06-9954
N.1.c Type: HIP6000 Electronic Meter
N.1.d Date of Last Certification: August 13, 2014

Attach a photograph of the meter(s) with date image taken. The meter reading(s) must be clearly visible in the photograph.

N.1.e Report the total meter reading number at the time the photograph was taken and specify the appropriate unit of generation (e.g., kWh): 00

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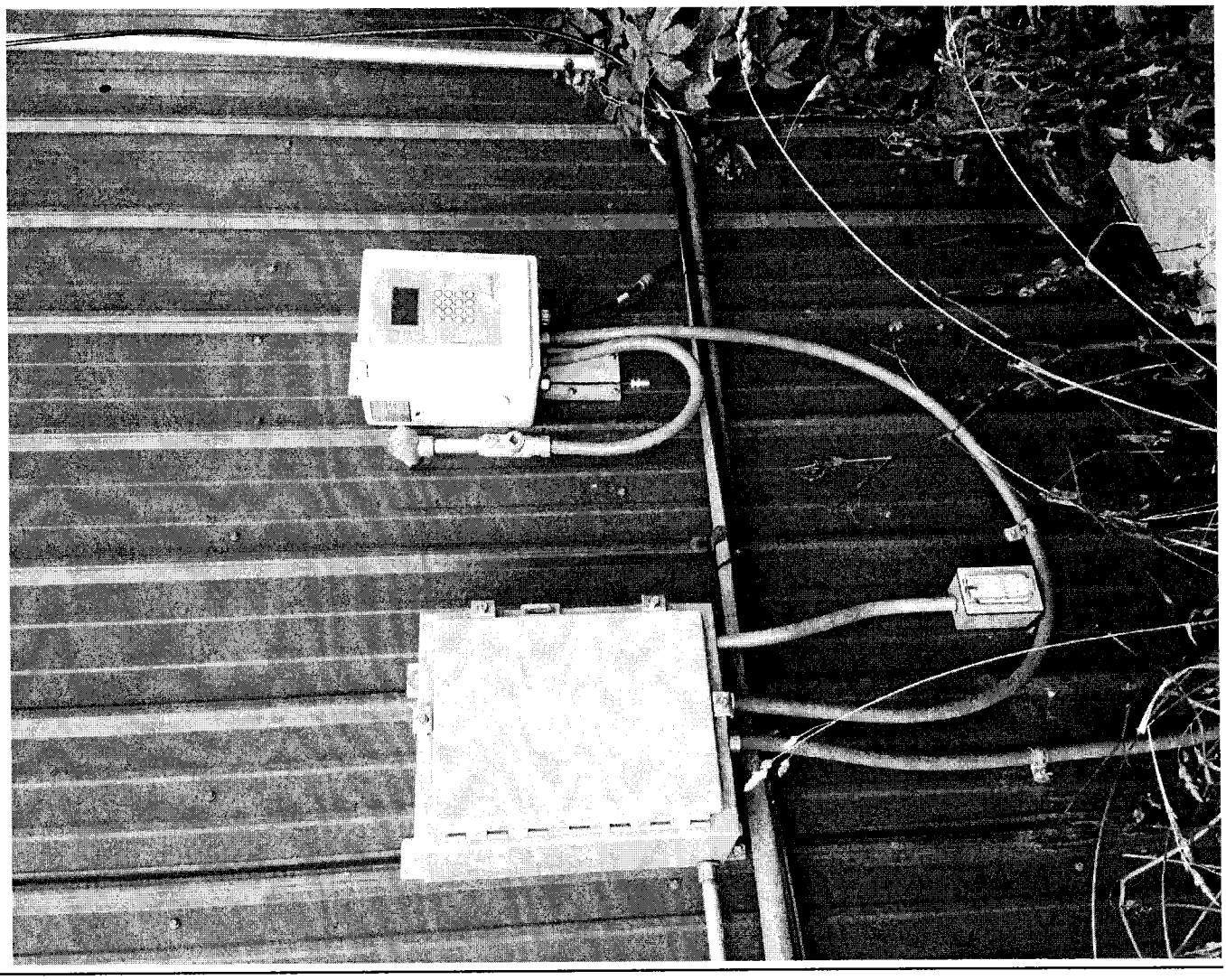


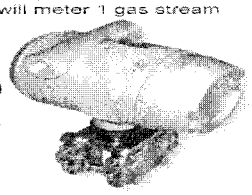
silversmith

Custody Transfer Quality Meter

HIP6000

3RD PARTY Certified | API 21.1 COMPLIANT | FM APPROVED

The HIP6000 is a Class1 Div1, advanced gas meter designed around a partnership with Honeywell. The unit will meter 1 gas stream (DP,P,T) and will work with either AGA style or VCone meter runs. This unit will also measure bi-directional flow where cross flowing of gas is used. The product comes with either ±.25% or ±.1% accuracy.



The HIP6000 uses a Smart Honeywell MVX sensor body. The MVX sensor has an integrated differential and atmosphere pressure sensors built into the same body. This sensor is also corrected with its own on board temperature sensor.

Communication is the product's strongest asset. A Patent Pending communication method that uses the Internet and non-licensed radio to get data back to a secure web server is a very powerful option (SSIPac) available for the HIP6000.

With the SSIPac option, Internet access and a password is all that is needed to retrieve the HIP6000's data remotely.

- Continuous monitoring
- Accuracy
- More efficient use of field operations
- Facilitates preventive maintenance
- Provides the information needed for "top down" management of wells
- Provides valuable early feedback during new field development and drilling

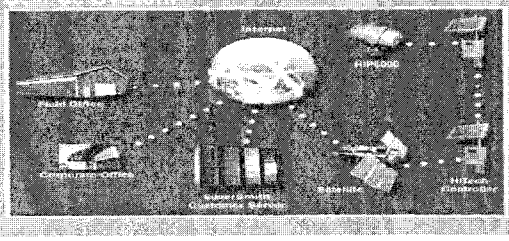
Input power 6-35 volts
15 ma continuous @12v (500ma when TX)
(optional) 220 Amp hour battery system
(optional) 10w solar panel with charge controller
1 0-5v or 4-20ma analog inputs
2 Serial ports (1 TTL Level)

Size 8"x 9"
Weight approximately 11 lbs.
NEMA 4x weatherproof enclosure
(optional) 2" and 3 1/2" mounting bracket
(optional) 3 valve manifold

Pic 18F8720 MPU
128k Flash standard

AGA3 w/AGA8 Super compressibility
V-Cone w/AGA8 Super compressibility

Rs232 Serial (3 wire)
RS484 Bus (2 wire)
Spread Spectrum Radio
IP Compatible



SilverSmith, Inc. 1330 Millpointe Rd., Gaylord, MI 49735 phone: 877.223.6868 fax: 989.732.8996 www.silversmithinc.com

Primary Meters For Measurement of Facility's Total Methane Output

Meter Map ID	Real Property Surface Owner	Well #	Mine	State API #	Latitude	Longitude	Meter	Serial #	Notes
B	Sales line Prior to TPL 15				40.320673	-81.076886	Barton & Silversmith	B-412540 & S-01-06-9954	Primary facility meter prior to junction with Dominion East Ohio pipeline ("Sales Meter")
G	Rosevalley Meter				40.313889	-80.905000	Barton & Silversmith	B-202E-409398 & S-01-06-9104	Meter measuring third party gas entering system

Individual Well Meters

Meter Map ID	Real Property Surface Owner	Well #	Mine	State API #	Latitude	Longitude	Meter	Serial #	Notes
1	W. & A. Kirkpatrick	00-02	Nelms 1	34-067-2-0960	40.295117	-80.945248	Barton	202A-203837	Common meter with well 19
2	CAM Ohio Real Estate LLC	99-7	Nelms 1	34-067-2-0958	40.282557	-80.942662	Barton	202A-71791	Common meter with well 99-4 & well 6
3	LAHD Energy INC.	19	Nelms 1	34-067-2-0953	40.316552	-80.942364	Barton	202A-203837	Common meter with well 00-02
4	CAM Ohio Real Estate LLC	99-4	Nelms 1	34-067-2-0948	40.281323	-80.947376	Barton	202A-71791	Common meter with well 6 & well 99-7
5	Sheila Tipton	2	Nelms 2	34-067-2-0982	40.335118	-80.939700	Barton	202A-60385	Common meter with Tipton well 3
6	Sheila Tipton	3	Nelms 2	34-067-2-0985	40.343239	-80.939477	Barton	202A-60385	Common meter with Titpon well 2
7	Sheila Tipton	NW-102	Nelms 2	34-067-2-0974	40.338002	-80.945824	Barton	202A-250770	
8	Ernie Tipton	1	Nelms	34-067-2-0997	40.346024	-80.942774	Barton	202A-250772	
9	Carpenter Family Trust	NW-100	Nelms 1	34-067-2-0968	40.296388	-80.954906	Barton	179-67627	
10	George Monzula	1	Nelms 1	34-067-2-0993	40.315043	-80.961023	Barton	202A-133455	
11	Leonard Ferraro	3	Nelms 1	34-067-2-0995	40.304875	-80.956607	Barton	202A-104297	Common meter with Ferraro well well 22
12	CAM Ohio Real Estate LLC	6	Nelms 1	34-067-2-0992	40.282666	-80.953209	Barton	202A-71791	Common meter with well 99-4 and well 99-7
13	CAM Ohio Real Estate LLC	99-8	Nelms 1	34-067-2-0949	40.287624	-80.957518	Barton	202E-926332	
14	CAM Ohio Real Estate LLC	11	Nelms 1	34-067-2-0981	40.262530	-80.966217	Barton	202E-422436	
15	DL Land Management LLC	20	Nelms 1	34-067-2-0980	40.271252	-80.955932	Barton	202E-308730	Common meter with well 21 on Perebzak property
16	J. Perebzak Et Al	21	Nelms 1	34-067-2-0979	40.273123	-80.963161	Barton	202E-308730	Common meter with well 20 on DL Management property
17	Leonard Ferraro	22	Nelms 1	34-067-2-0977	40.305797	-80.952548	Barton	202A-104297	Common meter with Ferraro well 3
18	Eric Ott	2	Nelms 1	34-067-2-1034	40.289160	-80.964864	Barton	202E-342667	Common meter with Ott 1 well
19	Eric Ott	1	Nelms 1	34-067-2-1035	40.283422	-80.96893	Barton	202E-342667	Common meter with Ott 2 well
20	George Moreland	1	Nelms 1	34-067-2-1027	40.316552	-80.942364	Barton	202A-315203	
21	Hopedale Sportsman Club	1	Nelms 1	34-067-2-1033	40.311505	-80.908170	Barton	202E-315714	
22	Jim Carson	1	Nelms 1 & Nelms 2	34-067-2-0940	40.313032	-80.898379	Barton	202A-244101	
23	George Monzula	Monzula 6	Cadiz Portal	34-067-2-1044	40.309851	-80.966285	Silversmith	01 06 8972	
24	Eric Ott	Ott 4	Cadiz Portal	34-067-2-1046	40.290478	-80.971458	Silversmith	Cannot read	
25	Jeffco Resources Inc.	Jeffco 2	Cadiz Portal	34-067-2-1050	40.293949	-81.006871	Barton	202A-273969	Common meter with Jeffco 3 well
26	Jeffco Resources Inc.	Jeffco 3	Cadiz Portal	34-067-2-1049	40.294405	-81.006528	Barton	202A-273969	Common meter with Jeffco 2 well

Line Check Meters

Meter Map ID	Real Property Surface Owner	Well #	Mine	State API #	Latitude	Longitude	Meter	Serial #	Notes
A	Main Compressor				40.280640	-80.966510	Barton & Silversmith	B-202A-202525 & S-01-06-9044	
C	CME Line Meter				40.280640	-80.966510	Barton	202E-337398	
D	8 Line Meter				40.280640	-80.966510	Barton & Silversmith	B-202A-146169 & S-01-06-9048	
E	CME line Meter at 2/19				40.316552	-80.942364	Barton	202A-115563	
F	Carson Line Meter				40.316552	-80.942364	Barton	202A-15228	

Ohio | Public Utilities Commission

Affidavit for Application for Certification as an Eligible Ohio Renewable Energy Resource Generating Facility

Please be advised that all applicant's contact information, including address and telephone number, will be made public and is not subject to confidential treatment. Additionally, any information pertaining to trade secrets contained within the application will be made public unless filed under seal with a motion for protective order, pursuant to Rule 4901-1-24 of the Ohio Administrative Code.

Case Number: 14-1515-EL-REN

Facility Name: Coal Gas Transportation, LLC

Name of person making this affidavit: Mark O'Brien

State of Kentucky
County of Jefferson

The undersigned, being duly sworn according to law, deposes and says that:

1. I am authorized to and do hereby make this affidavit on behalf of the Applicant.
2. All facts and statements made in the application for certification, including all attachments and supplemental information or filings, are true and complete to the best of my knowledge, information, and belief.
3. The facility has obtained or will obtain and will maintain all required local, state, and federal environmental permits.
4. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.

Mark O'Brien, President
Signature of Affiant & Title

Sworn and subscribed before me this 2 day of Sept 2014 Month/Year

Donna L Burdett
Notary

My commission expires on 12-21-14

The Public Utilities Commission of Ohio reserves the right to verify the accuracy of the data reported to the tracking system and to the PUCO.

Version: June 3, 2013

Summary: Application For Certification of an Abandoned Mine Methane Facility as an Eligible Ohio Renewable Energy Resource Generating Facility electronically filed by Mr. Daniel Sullivan on behalf of Coal Gas Transportation, LLC