# 42-00197

# ATLAS ENERGY RESOURCES LLC/IRISHTOWN GAS PLT



# COMMONWEALTH OF PENNSYLVANIA DEPARTMENT OF ENVIRONMENTAL PROTECTION AIR QUALITY PROGRAM

# STATE ONLY OPERATING PERMIT

Issue Date: March 27, 2009 Effective Date: August 3, 2010
Revision Date: August 3, 2010 Expiration Date: February 28, 2014

Revision Type: Transfer

In accordance with the provisions of the Air Pollution Control Act, the Act of January 8, 1960, P.L. 2119, as amended, and 25 Pa. Code Chapter 127, the Owner, [and Operator if noted] (hereinafter referred to as permittee) identified below is authorized by the Department of Environmental Protection (Department) to operate the air emission source(s) more fully described in this permit. This Facility is subject to all terms and conditions specified in this permit. Nothing in this permit relieves the permittee from its obligations to comply with all applicable Federal, State and Local laws and regulations.

The regulatory or statutory authority for each permit condition is set forth in brackets. All terms and conditions in this permit are federally enforceable unless otherwise designated.

State Only Permit No: 42-00197

Federal Tax Id - Plant Code: 75-3218520-1

### Owner Information

Name: ATLAS ENERGY RESOURCES LLC

Mailing Address: PO BOX 611

1550 CORAOPOLIS HEIGHTS RD CORAOPOLIS, PA 15108-0611

# Plant Information

Plant: ATLAS ENERGY RESOURCES LLC/IRISHTOWN GAS PLT

Location: 42 McKean County 42914 Lafayette Township

SIC Code: 1321 Mining - Natural Gas Liquids

# Responsible Official

Name: JEFF SIMMONS

Title: SENIOR VICE PRESIDENT

Phone: (412) 865 - 2140

# Permit Contact Person

Name: CHRISTINE WALTON Title: DIRECTOR EHS Phone: (412) 262 - 2830

[Signature]

JOHN F. GUTH, NORTHWEST REGION AIR PROGRAM MANAGER





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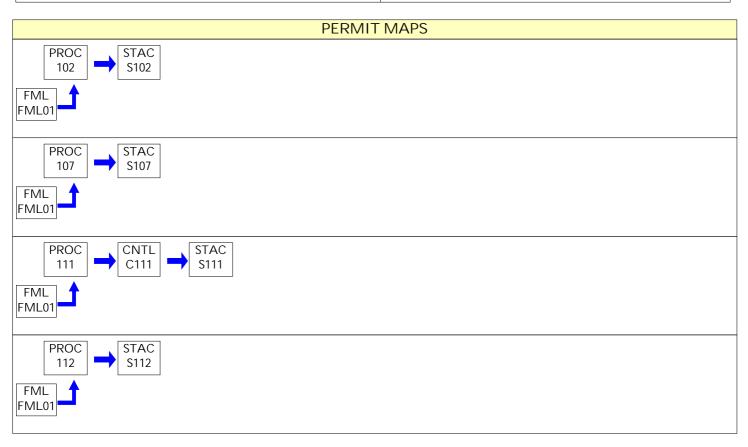
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# SECTION A. Site Inventory List

Source I	D Source Name	Capacity/Throughput	Fuel/Material
102	384 HP COMPRESSOR ENGINE (INLET 2)	2.420 MCF/HR	Natural Gas
107	384 HP COMPRESSOR ENGINE (INLET)		
111	272 HP COMPRESSOR ENGINE	2.500 MCF/HR	Natural Gas
112	425 HP COMPRESSOR ENGINE	2.500 MCF/HR	Natural Gas
C111	G3406 CATALYTIC CONVERTER		
FML01	NATURAL GAS PIPELINE		
S102	384 HP COMPRESSOR ENGINE STACK		
S107	384 HP COMPRESSOR ENGINE STACK		
S111	272 HP COMPRESSOR ENGINE STACK		
S112	425 HP COMPRESSOR ENGINE STACK		









#001 [25 Pa. Code § 121.1]

Definitions.

Words and terms that are not otherwise defined in this permit shall have the meanings set forth in Section 3 of the Air Pollution Control Act (35 P.S. § 4003) and in 25 Pa. Code § 121.1.

#002 [25 Pa. Code § 127.446]

Operating Permit Duration.

- (a) This operating permit is issued for a fixed term of five (5) years and shall expire on the date specified on Page 1 of this permit.
- (b) The terms and conditions of the expired permit shall automatically continue pending issuance of a new operating permit, provided the permittee has submitted a timely and complete application and paid applicable fees required under 25 Pa. Code Chapter 127, Subchapter I and the Department is unable, through no fault of the permittee, to issue or deny a new permit before the expiration of the previous permit.

#003 [25 Pa. Code §§ 127.412, 127.413, 127.414, 127.446 & 127.703(b)&(c)]

### Permit Renewal.

- (a) The permittee shall submit a timely and complete application for renewal of the operating permit to the appropriate Regional Air Program Manager. The application for renewal of the operating permit shall be submitted at least six (6) months and not more than 18 months before the expiration date of this permit.
- (b) The application for permit renewal shall include the current permit number, a description of any permit revisions that occurred during the permit term, and any applicable requirements that were promulgated and not incorporated into the permit during the permit term. An application is complete if it contains sufficient information to begin processing the application, has the applicable sections completed and has been signed by a responsible official.
- (c) The permittee shall submit with the renewal application a fee for the processing of the application and an additional annual administrative fee as specified in 25 Pa. Code § 127.703(b) and (c). The fees shall be made payable to "The Commonwealth of Pennsylvania Clean Air Fund" and shall be for the amount specified in the following schedule specified in 25 Pa. Code § 127.703(b) and (c).
  - (1) Three hundred dollars for applications filed during the 2000-2004 calendar years.
  - (2) Three hundred seventy-five dollars for applications filed for the calendar years beginning in 2005.
- (d) The renewal application shall also include submission of proof that the local municipality and county, in which the facility is located, have been notified in accordance with 25 Pa. Code § 127.413.
- (e) The application for renewal of the operating permit shall also include submission of supplemental compliance review forms in accordance with the requirements of 25 Pa. Code § 127.412(b) and § 127.412(j).
- (f) The permittee, upon becoming aware that any relevant facts were omitted or incorrect information was submitted in the permit application, shall promptly submit such supplementary facts or corrected information as necessary to address any requirements that become applicable to the source after the permittee submits a complete application, but prior to the date the Department takes action on the permit application.

#004 [25 Pa. Code § 127.703]

Operating Permit Fees under Subchapter I.

- (a) The permittee shall pay fees according to the following schedule specified in 25 Pa. Code § 127.703(b):
  - (1) Three hundred dollars for applications filed during the 2000-2004 calendar years.
  - (2) Three hundred seventy-five dollars for applications filed for the calendar years beginning in 2005.

This fee schedule shall apply to the processing of an application for an operating permit as well as the extension, modification, revision, renewal, and re-issuance of each operating permit or part thereof.





- (b) The permittee shall pay an annual operating permit administrative fee according to the fee schedule established in 25 Pa. Code § 127.703(c).
  - (1) Two hundred fifty dollars for applications filed during the 1995-1999 calendar years.
  - (2) Three hundred dollars for applications filed during the 2000-2004 calendar years.
  - (3) Three hundred seventy-five dollars for applications filed during the years beginning in 2005.
- (c) The applicable fees shall be made payable to "The Commonwealth of Pennsylvania Clean Air Fund".

#005 [25 Pa. Code §§ 127.450 (a)(4) and 127.464]

Transfer of Operating Permits.

- (a) This operating permit may not be transferred to another person, except in cases of transfer-of-ownership that are documented and approved by the Department.
- (b) In accordance with 25 Pa. Code § 127.450(a)(4), a change in ownership of the source shall be treated as an administrative amendment if the Department determines that no other change in the permit is required and a written agreement has been submitted to the Department identifying the specific date of the transfer of permit responsibility, coverage and liability between the current and the new permittee and a compliance review form has been submitted to, and the permit transfer has been approved by, the Department.
- (c) This operating permit is valid only for those specific sources and the specific source locations described in this permit.

#006 [25 Pa. Code § 127.441 and 35 P.S. § 4008]

Inspection and Entry.

- (a) Upon presentation of credentials and other documents as may be required by law, the permittee shall allow the Department or authorized representatives of the Department to perform the following:
- (1) Enter at reasonable times upon the permittee's premises where a source is located or emissions related activity is conducted, or where records are kept under the conditions of this permit;
  - (2) Have access to and copy, at reasonable times, any records that are kept under the conditions of this permit;
- (3) Inspect at reasonable times, any facilities, equipment including monitoring and air pollution control equipment, practices, or operations regulated or required under this permit;
- (4) Sample or monitor, at reasonable times, any substances or parameters, for the purpose of assuring compliance with the permit or applicable requirements as authorized by the Clean Air Act, the Air Pollution Control Act, or the regulations promulgated under the Acts.
- (b) Pursuant to 35 P.S. § 4008, no person shall hinder, obstruct, prevent or interfere with the Department or its personnel in the performance of any duty authorized under the Air Pollution Control Act or regulations adopted thereunder including denying the Department access to a source at this facility. Refusal of entry or access may constitute grounds for permit revocation and assessment of criminal and/or civil penalties.
- (c) Nothing in this permit condition shall limit the ability of the EPA to inspect or enter the premises of the permittee in accordance with Section 114 or other applicable provisions of the Clean Air Act.

#007 [25 Pa. Code §§ 127.441 & 127.444]

Compliance Requirements.

- (a) The permittee shall comply with the conditions of this operating permit. Noncompliance with this permit constitutes a violation of the Clean Air Act and the Air Pollution Control Act and is grounds for one or more of the following:
  - (1) Enforcement action







- (2) Permit termination, revocation and reissuance or modification
- (3) Denial of a permit renewal application
- (b) A person may not cause or permit the operation of a source which is subject to 25 Pa. Code Article III unless the source(s) and air cleaning devices identified in the application for the plan approval and operating permit and the plan approval issued for the source is operated and maintained in accordance with specifications in the applications and the conditions in the plan approval and operating permit issued by the Department. A person may not cause or permit the operation of an air contamination source subject to 25 Pa. Code Chapter 127 in a manner inconsistent with good operating practices.
- (c) For purposes of Sub-condition (b) of this permit condition, the specifications in applications for plan approvals and operating permits are the physical configurations and engineering design details which the Department determines are essential for the permittee's compliance with the applicable requirements in this State-Only permit. Nothing in this sub-condition shall be construed to create an independent affirmative duty upon the permittee to obtain a predetermination from the Department for physical configuration or engineering design detail changes made by the permittee.

#008 [25 Pa. Code § 127.441]

Need to Halt or Reduce Activity Not a Defense.

It shall not be a defense for the permittee in an enforcement action that it was necessary to halt or reduce the permitted activity in order to maintain compliance with the conditions of this permit.

#009 [25 Pa. Code §§ 127.442(a) & 127.461]

Duty to Provide Information.

- (a) The permittee shall submit reports to the Department containing information the Department may prescribe relative to the operation and maintenance of each source at the facility.
- (b) The permittee shall furnish to the Department, in writing, information that the Department may request to determine whether cause exists for modifying, revoking and reissuing, or terminating this permit, or to determine compliance with the permit. Upon request, the permittee shall also furnish to the Department copies of records that the permittee is required to maintain in accordance with this permit.

#010 [25 Pa. Code § 127.461]

Revising an Operating Permit for Cause.

This operating permit may be terminated, modified, suspended or revoked and reissued if one or more of the following applies:

- (1) The permittee constructs or operates the source subject to the operating permit so that it is in violation of the Air Pollution Control Act, the Clean Air Act, the regulations thereunder, a plan approval, a permit or in a manner that causes air pollution.
- (2) The permittee fails to properly or adequately maintain or repair an air pollution control device or equipment attached to or otherwise made a part of the source.
- (3) The permittee has failed to submit a report required by the operating permit or an applicable regulation.
- (4) The EPA determines that the permit is not in compliance with the Clean Air Act or the regulations thereunder.

#011 [25 Pa. Code §§ 127.450 & 127.462]

# **Operating Permit Modifications**

- (a) The permittee is authorized to make administrative amendments, minor operating permit modifications and significant operating permit modifications, under this permit, as outlined below:
- (b) Administrative Amendments. The permittee shall make administrative operating permit amendments (as defined in 25 Pa. Code § 127.450(a)), according to procedures specified in § 127.450 unless precluded by the Clean Air Act or its regulations.



- (c) Minor Operating Permit Modifications. The permittee shall make minor operating permit modifications (as defined 25 Pa. Code § 121.1) in accordance with 25 Pa. Code § 127.462.
- (d) Permit modifications which do not qualify as minor permit modifications under 25 Pa. Code § 127.541 will be treated as a significant operating permit revision subject to the public notification procedures in §§ 127.424 and 127.425.

#012 [25 Pa. Code § 127.441]

Severability Clause.

The provisions of this permit are severable, and if any provision of this permit is determined by a court of competent jurisdiction to be invalid or unenforceable, such a determination will not affect the remaining provisions of this permit.

#013 [25 Pa. Code § 127.449]

De Minimis Emission Increases.

- (a) This permit authorizes de minimis emission increases in accordance with 25 Pa. Code § 127.449 so long as the permittee provides the Department with seven (7) days prior written notice before commencing any de minimis emissions increase. The written notice shall:
  - (1) Identify and describe the pollutants that will be emitted as a result of the de minimis emissions increase.
- (2) Provide emission rates expressed in tons per year and in terms necessary to establish compliance consistent with any applicable requirement.
- (b) The Department may disapprove or condition de minimis emission increases at any time.
- (c) Except as provided below in (d), the permittee is authorized to make de minimis emission increases (expressed in tons per year) up to the following amounts without the need for a plan approval or prior issuance of a permit modification:
- (1) Four tons of carbon monoxide from a single source during the term of the permit and 20 tons of carbon monoxide at the facility during the term of the permit.
- (2) One ton of NOx from a single source during the term of the permit and 5 tons of NOx at the facility during the term of the permit.
- (3) One and six-tenths tons of the oxides of sulfur from a single source during the term of the permit and 8.0 tons of oxides of sulfur at the facility during the term of the permit.
- (4) Six-tenths of a ton of PM10 from a single source during the term of the permit and 3.0 tons of PM10 at the facility during the term of the permit. This shall include emissions of a pollutant regulated under Section 112 of the Clean Air Act unless precluded by the Clean Air Act, the regulations thereunder or 25 Pa. Code Article III.
- (5) One ton of VOCs from a single source during the term of the permit and 5.0 tons of VOCs at the facility during the term of the permit. This shall include emissions of a pollutant regulated under Section 112 of the Clean Air Act unless precluded by the Clean Air Act, the regulations thereunder or 25 Pa. Code Article III.
  - (6) Other sources and classes of sources determined to be of minor significance by the Department.
- (d) In accordance with § 127.14, the permittee is authorized to install the following minor sources without the need for a plan approval or permit modification:
- (1) Air conditioning or ventilation systems not designed to remove pollutants generated or released from other sources.
  - (2) Combustion units rated at 2,500,000 or less Btu per hour of heat input.
- (3) Combustion units with a rated capacity of less than 10,000,000 Btu per hour heat input fueled by natural gas supplied by a public utility or by commercial fuel oils which are No. 2 or lighter, viscosity less than or equal to 5.82 c St, and which meet the sulfur content requirements of 25 Pa. Code §123.22 (relating to combustion units). For purposes of this permit, commercial fuel oil shall be virgin oil which has no reprocessed, recycled or waste material added.







- (4) Space heaters which heat by direct heat transfer.
- (5) Laboratory equipment used exclusively for chemical or physical analysis.
- (6) Other sources and classes of sources determined to be of minor significance by the Department.
- (e) This permit does not authorize de minimis emission increases if the emissions increase would cause one or more of the following:
- (1) Increase the emissions of a pollutant regulated under Section 112 of the Clean Air Act except as authorized in Subparagraphs (c)(4) and (5) of this permit condition.
- (2) Subject the facility to the prevention of significant deterioration requirements in 25 Pa. Code Chapter 127, Subchapter D and/or the new source review requirements in Subchapter E.
- (3) Violate any applicable requirement of this permit, the Air Pollution Control Act, the Clean Air Act, or the regulations promulgated under either of the acts.
- (f) Emissions authorized under this permit condition shall be included in the monitoring, recordkeeping and reporting requirements of this permit.
- (g) Except for de minimis emission increases, installation of minor sources made pursuant to this permit condition and Plan Approval Exemptions under 25 Pa. Code § 127.14 (relating to exemptions), the permittee is prohibited from making changes or engaging in activities that are not specifically authorized under this permit without first applying for a plan approval. In accordance with § 127.14(b), a plan approval is not required for the construction, modification, reactivation, or installation of the sources creating the de minimis emissions increase.
- (h) The permittee may not meet de minimis emission threshold levels by offsetting emission increases or decreases at the same source.

#014 [25 Pa. Code § 127.3]

Operational Flexibility.

The permittee is authorized to make changes within the facility in accordance with the regulatory provisions outlined in 25 Pa. Code § 127.3 (relating to operational flexibility) to implement the operational flexibility requirements provisions authorized under Section 6.1(i) of the Air Pollution Control Act and the operational flexibility terms and conditions of this permit. The provisions in 25 Pa. Code Chapter 127 which implement the operational flexibility requirements include the following:

- (1) Section 127.14 (relating to exemptions)
- (2) Section 127.447 (relating to alternative operating scenarios)
- (3) Section 127.448 (relating to emissions trading at facilities with Federally enforceable emissions caps)
- (4) Section 127.449 (relating to de minimis emission increases)
- (5) Section 127.450 (relating to administrative operating permit amendments)
- (6) Section 127.462 (relating to minor operating permit modifications)
- (7) Subchapter H (relating to general plan approvals and general operating permits)

#015 [25 Pa. Code § 127.11]

# Reactivation

(a) The permittee may not reactivate a source that has been out of operation or production for at least one year unless the reactivation is conducted in accordance with a plan approval granted by the Department or in accordance with reactivation and maintenance plans developed and approved by the Department in accordance with 25 Pa. Code § 127.11a(a).







(b) A source which has been out of operation or production for more than five (5) years but less than 10 years may be reactivated and will not be considered a new source if the permittee satisifies the conditions specified in 25 Pa. Code § 127.11a(b).

#016 [25 Pa. Code § 127.36]

Health Risk-based Emission Standards and Operating Practice Requirements.

- (a) When needed to protect public health, welfare and the environment from emissions of hazardous air pollutants from new and existing sources, the permittee shall comply with the health risk-based emission standards or operating practice requirements imposed by the Department, except as precluded by §§ 6.6(d)(2) and (3) of the Air Pollution Control Act [35 P.S. § 4006.6(d)(2) and (3)].
- (b) A person challenging a performance or emission standard established by the Department has the burden to demonstrate that performance or emission standard does not meet the requirements of Section 112 of the Clean Air Act.

#017 [25 Pa. Code § 121.9]

Circumvention.

No person may permit the use of a device, stack height which exceeds good engineering practice stack height, dispersion technique or other technique which, without resulting in reduction of the total amount of air contaminants emitted, conceals or dilutes an emission of air contaminants which would otherwise be in violation of 25 Pa. Code Article III, except that with prior approval of the Department, the device or technique may be used for control of malodors.

#018 [25 Pa. Code §§ 127.402(d) & 127.442]

Reporting Requirements.

- (a) The permittee shall comply with the applicable reporting requirements of the Clean Air Act, the regulations thereunder, the Air Pollution Control Act and 25 Pa. Code Article III including Chapters 127, 135 and 139.
- (b) The permittee shall submit reports to the Department containing information the Department may prescribe relative to the operation and maintenance of any air contamination source.
- (c) Reports, test data, monitoring data, notifications and requests for renewal of the permit shall be submitted to the:

Regional Air Program Manager PA Department of Environmental Protection (At the address given in the permit transmittal letter, or otherwise notified)

- (d) Any records or information including applications, forms, or reports submitted pursuant to this permit condition shall contain a certification by a responsible official as to truth, accuracy and completeness. The certifications submitted under this permit shall require a responsible official of the facility to certify that based on information and belief formed after reasonable inquiry, the statements and information in the documents are true, accurate and complete.
- (e) Any records, reports or information submitted to the Department shall be available to the public except for such records, reports or information which meet the confidentiality requirements of § 4013.2 of the Air Pollution Control Act and §§ 112(d) and 114(c) of the Clean Air Act. The permittee may not request a claim of confidentiality for any emissions data generated for the facility.

#019 [25 Pa. Code §§ 127.441(c) & 135.5]

Sampling, Testing and Monitoring Procedures.

- (a) The permittee shall comply with the monitoring, recordkeeping or reporting requirements of 25 Pa. Code Chapter 139 and the other applicable requirements of 25 Pa. Code Article III and additional requirements related to monitoring, reporting and recordkeeping required by the Clean Air Act and the regulations thereunder including the Compliance Assurance Monitoring requirements of 40 CFR Part 64, where applicable.
- (b) Unless alternative methodology is required by the Clean Air Act and regulations adopted thereunder, sampling, testing and monitoring required by or used by the permittee to demonstrate compliance with any applicable regulation or permit condition shall be conducted in accordance with the requirements of 25 Pa. Code Chapter 139.







#020 [25 Pa. Code §§ 127.441(c) and 135.5]

Recordkeeping.

- (a) The permittee shall maintain and make available, upon request by the Department, the following records of monitored information:
  - (1) The date, place (as defined in the permit) and time of sampling or measurements.
  - (2) The dates the analyses were performed.
  - (3) The company or entity that performed the analyses.
  - (4) The analytical techniques or methods used.
  - (5) The results of the analyses.
  - (6) The operating conditions as existing at the time of sampling or measurement.
- (b) The permittee shall retain records of any required monitoring data and supporting information for at least five (5) years from the date of the monitoring, sample, measurement, report or application. Supporting information includes the calibration data and maintenance records and original strip-chart recordings for continuous monitoring instrumentation, and copies of reports required by the permit.
- (c) The permittee shall maintain and make available to the Department upon request, records including computerized records that may be necessary to comply with the reporting, recordkeeping and emission statement requirements in 25 Pa. Code Chapter 135 (relating to reporting of sources). In accordance with 25 Pa. Code Chapter 135, § 135.5, such records may include records of production, fuel usage, maintenance of production or pollution control equipment or other information determined by the Department to be necessary for identification and quantification of potential and actual air contaminant emissions.

#021 [25 Pa. Code § 127.441(a)]

Property Rights.

This permit does not convey any property rights of any sort, or any exclusive privileges.

#022 [25 Pa. Code § 127.447]

Alternative Operating Scenarios.

The permittee is authorized to make changes at the facility to implement alternative operating scenarios identified in this permit in accordance with 25 Pa. Code § 127.447.

DEP Auth ID: 837308







# SECTION C. Site Level Requirements

### I. RESTRICTIONS.

# Emission Restriction(s).

# 001 [25 Pa. Code §123.1]

### Prohibition of certain fugitive emissions

No person may permit the emission into the outdoor atmosphere of fugitive air contaminant from a source other than the following:

- (1) Construction or demolition of buildings or structures.
- (2) Grading, paving and maintenance of roads and streets.
- (3) Use of roads and streets. Emissions from material in or on trucks, railroad cars and other vehicular equipment are not considered as emissions from use of roads and streets.
  - (4) Clearing of land.
  - (5) Stockpiling of materials.
  - (6) Open burning operations.
  - (7) Not applicable.
  - (8) Not applicable.
- (9) Sources and classes of sources other than those identified in paragraphs (1)-(8), for which the operator has obtained a determination from the Department that fugitive emissions from the source, after appropriate control, meet the following requirements:
  - (i) the emissions are of minor significance with respect to causing air pollution; and
- (ii) the emissions are not preventing or interfering with the attainment or maintenance of any ambient air quality standard.

# 002 [25 Pa. Code §123.2]

### Fugitive particulate matter

A person may not permit fugitive particulate matter to be emitted into the outdoor atmosphere from a source specified in Section C, Condition #001 (relating to prohibition of certain fugitive emissions) if such emissions are visible at the point the emissions pass outside the person's property.

# 003 [25 Pa. Code §123.31]

### Limitations

A person may not permit the emission into the outdoor atmosphere of any malodorous air contaminants from any source in such a manner that the malodors are detectable outside the property of the person on whose land the source is being operated.

# 004 [25 Pa. Code §123.41]

### Limitations

A person may not permit the emission into the outdoor atmosphere of visible air contaminants in such a manner that the opacity of the emission is either of the following:

- (1) Equal to or greater than 20% for a period or periods aggregating more than three minutes in any 1 hour.
- (2) Equal to or greater than 60% at any time.

# 005 [25 Pa. Code §123.42]

# Exceptions

The limitations of §123.41 (relating to limitations) shall not apply to a visible emission in any of the following instances:

(1) When the presence of uncombined water is the only reason for failure of the emission to meet the limitations.







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- (2) When the emission results from the operation of equipment used solely to train and test persons in observing the opacity of visible emissions.
- (3) When the emission results from sources specified in Section C, Condition #001 (relating to prohibition of certain fugitive emissions).
  - (4) Not applicable

#### II. TESTING REQUIREMENTS.

No additional testing requirements exist except as provided in other sections of this permit including Section B (State Only General Requirements).

### III. MONITORING REQUIREMENTS.

# 006 [25 Pa. Code §123.43]

Measuring techniques

Visible emissions may be measured using either of the following:

- (1) A device approved by the Department and maintained to provide accurate opacity measurements.
- (2) Observers, trained and qualified to measure plume opacity with the naked eye or with the aid of any devices approved by the Department.

### IV. RECORDKEEPING REQUIREMENTS.

No additional record keeping requirements exist except as provided in other sections of this permit including Section B (State Only General Requirements).

### V. REPORTING REQUIREMENTS.

No additional reporting requirements exist except as provided in other sections of this permit including Section B (State Only General Requirements).

### VI. WORK PRACTICE REQUIREMENTS.

# 007 [25 Pa. Code §123.1]

Prohibition of certain fugitive emissions

[From 25 Pa. Code §129.31(c)]

A person responsible for any source specified in Section C, Condition #001 shall take all reasonable actions to prevent particulate matter from becoming airborne. These actions shall include, but not be limited to, the following:

- (1) Use, where possible, of water or chemicals for control of dust in the demolition of buildings or structures, construction operations, the grading of roads, or the clearing of land.
- (2) Application of asphalt, oil, water or suitable chemicals on dirt roads, material stockpiles and other surfaces which may give rise to airborne dusts.
  - (3) Paving and maintenance of roadways.
- (4) Prompt removal of earth or other material from paved streets onto which earth or other material has been transported by trucking or earth moving equipment, erosion by water, or other means.

# 008 [25 Pa. Code §129.14]

Open burning operations

(a) Not applicable.



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- (b) Outside of air basins. No person may permit the open burning of material in an area outside of air basins in a manner that:
- (1) The emissions are visible, at any time, at the point such emissions pass outside the property of the person on whose land the open burning is being conducted.
- (2) Malodorous air contaminants from the open burning are detectable outside the property of the person on whose land the open burning is being conducted.
  - (3) The emissions interfere with the reasonable enjoyment of life or property.
  - (4) The emissions cause damage to vegetation or property.
  - (5) The emissions are or may be deleterious to human or animal health.
  - (c) Exceptions: The requirements of subsections (a) and (b) do not apply where the open burning operations result from:
- (1) A fire set to prevent or abate a fire hazard, when approved by the Department and set by or under the supervision of a public officer.
  - (2) A fire set for the purpose of instructing personnel in fire fighting, when approved by the Department.
  - (3) A fire set for the prevention and control of disease or pests, when approved by the Department.
  - (4) Not applicable.
  - (5) Not applicable.
  - (6) A fire set solely for recreational or ceremonial purposes.
  - (7) A fire set solely for cooking food.
  - (d) Clearing and grubbing wastes. The following is applicable to clearing and grubbing wastes:
    - (1) As used in this subsection the following terms shall have the following meanings:

Air curtain destructor -- A mechanical device which forcefully projects a curtain of air across a pit in which open burning is being conducted so that combustion efficiency is increased and smoke and other particulate matter are contained.

Clearing and grubbing wastes -- Trees, shrubs, and other native vegetation which are cleared from land during or prior to the process of construction. The term does not include demolition wastes and dirt laden roots.

- (2) Not applicable.
- (3) Subsection (b) notwithstanding clearing and grubbing wastes may be burned outside of an air basin, subject to the following limitations:
- (i) Upon receipt of a complaint or determination by the Department that an air pollution problem exists, the Department may order that the open burning cease or comply with subsection (b) of this section.
- (ii) Authorization for open burning under this paragraph does not apply to clearing and grubbing wastes transported from an air basin for disposal outside of an air basin.
- (4) During an air pollution episode, open burning is limited by Chapter 137 (relating to air pollution episodes) and shall cease as specified in such chapter.

[This permit does not constitute authorization to burn solid waste pursuant to Section 610(3) of the Solid Waste Management



42-00197



# SECTION C. Site Level Requirements

Act, 35 P.S. Section 6018.610(3), or any other provision of the Solid Waste Management Act.]

# VII. ADDITIONAL REQUIREMENTS.

No additional requirements exist except as provided in other sections of this permit including Section B (State Only General Requirements).

# VIII. COMPLIANCE CERTIFICATION.

No additional compliance certifications exist except as provided in other sections of this permit including Section B (relating to State Only General Requirements).

# IX. COMPLIANCE SCHEDULE.

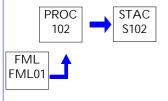
No compliance milestones exist.



#### SECTION D. Source Level Requirements

Source ID: 102 Source Name: 384 HP COMPRESSOR ENGINE (INLET 2)

> Source Capacity/Throughput: Natural Gas 2.420 MCF/HR



# RESTRICTIONS.

### Emission Restriction(s).

# 001 [25 Pa. Code §123.13]

**Processes** 

No person may permit the emission into the outdoor atmosphere of particulate matter from any process in a manner that the concentration of particulate matter in the effluent gas exceeds .04 grain per dry standard cubic foot, when the effluent gas volume is less than 150,000 dry standard cubic feet per minute.

# 002 [25 Pa. Code §123.21]

General

No person may permit the emission into the outdoor atmosphere of sulfur oxides from a source in a manner that the concentration of the sulfur oxides, expressed as SO2, in the effluent gas exceeds 500 parts per million, by volume, dry basis.

[25 Pa. Code §127.12b]

Plan approval terms and conditions.

Air pollutant emissions from 384 HP Ajax shall not exceed the following limitations (based on full load and the rated hrsepower of the engine):

Pollutant	Emission Limit (short term)	Emission Limit (tons/year, 12-month rolling total)
NOx	2.0 grams/hp-hr -or- 1.69 lbs/hr	7.4
VOC	1.0 grams/hp-hr -or- 0.85 lbs/hr	3.7
CO	2.0 grams/hp-hr -or- 1.69 lbs/hr	7.4

[From Condition #9 of Plan Approval # 42-197B]

# Fuel Restriction(s).

# 004 [25 Pa. Code §127.12b]

Plan approval terms and conditions.

The source shall be fired by pipeline quality natural gas, as defined by the Federal Energy Regulatory Commissions (FERC), only.

[From Condition #11 of Plan Approval # 42-197B]







# SECTION D. Source Level Requirements

### II. TESTING REQUIREMENTS.

# 005 [25 Pa. Code §127.12b] Plan approval terms and conditions.

The Department reserves the right to require the facility to perform emission testing for the engine.

[From Condition #10 of Plan Approval # 42-197B]

# III. MONITORING REQUIREMENTS.

No additional monitoring requirements exist except as provided in other sections of this permit including Section B (State Only General Requirements).

### IV. RECORDKEEPING REQUIREMENTS.

# 006 [25 Pa. Code §127.12b]

Plan approval terms and conditions.

The applicant shall perform daily monitoring and logging of key operating data including:

- i) Volumetric throughput;
- ii) Hours of operation for the engine; and
- iii) The daily fuel consumption for the engine.

[From Condition #12 of Plan Approval # 42-197B]

### V. REPORTING REQUIREMENTS.

No additional reporting requirements exist except as provided in other sections of this permit including Section B (State Only General Requirements).

### VI. WORK PRACTICE REQUIREMENTS.

No additional work practice requirements exist except as provided in other sections of this permit including Section B (State Only General Requirements).

### VII. ADDITIONAL REQUIREMENTS.

No additional requirements exist except as provided in other sections of this permit including Section B (State Only General Requirements).





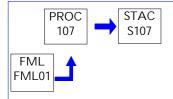
# Source Level Requirements

Source ID: 107

SECTION D.

Source Name: 384 HP COMPRESSOR ENGINE (INLET)

Source Capacity/Throughput:



### I. RESTRICTIONS.

# Emission Restriction(s).

# 001 [25 Pa. Code §123.13]

### **Processes**

No person may permit the emission into the outdoor atmosphere of particulate matter from any process in a manner that the concentration of particulate matter in the effluent gas exceeds .04 grain per dry standard cubic foot, when the effluent gas volume is less than 150,000 dry standard cubic feet per minute.

# 002 [25 Pa. Code §123.21]

### General

No person may permit the emission into the outdoor atmosphere of sulfur oxides from a source in a manner that the concentration of the sulfur oxides, expressed as SO2, in the effluent gas exceeds 500 parts per million, by volume, dry basis.

# 003 [25 Pa. Code §127.12b]

Plan approval terms and conditions.

Air pollutant emissions from the 384 HP Ajax Inlet Compressor shall not exceed the following limitations (based on full load and the rated horsepower of the engine):

Pollutant **Emission Limit Emission Limit** (short term) (tons/year, 12-month rolling total) NOx 2.0 grams/hp-hr 7.4 -or-1.69 lbs/hr VOC 3.7 1.0 grams/hp-hr -or-0.85 lbs/hr CO 7.4 2.0 grams/hp-hr -or-1.69 lbs/hr

[From Condition #7 of Plan Approval # 42-197C]

# Fuel Restriction(s).

# 004 [25 Pa. Code §127.12b]

Plan approval terms and conditions.

The source shall be fired by pipeline quality natural gas, as defined by the Federal Energy Regulatory Commission (FERC), only.

[From Condition #13 of Plan Approval # 42-197C]

# II. TESTING REQUIREMENTS.

# 005 [25 Pa. Code §127.12b]

Plan approval terms and conditions.







# SECTION D. Source Level Requirements

The Department reserves the right to require the facility to perform emission testing for the engines.

[From Condition #12 of Plan Approval # 42-197C]

# III. MONITORING REQUIREMENTS.

No additional monitoring requirements exist except as provided in other sections of this permit including Section B (State Only General Requirements).

### IV. RECORDKEEPING REQUIREMENTS.

# 006 [25 Pa. Code §127.12b] Plan approval terms and conditions.

The applicant shall perform daily monitoring and logging of key operating data (including volumetric throughput, hours of operation for each of the units, and the daily fuel consumption for each engine.

[From Condition #17 of Plan Approval # 42-197C]

### V. REPORTING REQUIREMENTS.

No additional reporting requirements exist except as provided in other sections of this permit including Section B (State Only General Requirements).

# VI. WORK PRACTICE REQUIREMENTS.

No additional work practice requirements exist except as provided in other sections of this permit including Section B (State Only General Requirements).

# VII. ADDITIONAL REQUIREMENTS.

No additional requirements exist except as provided in other sections of this permit including Section B (State Only General Requirements).



SECTION D.

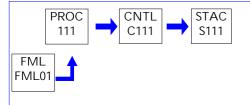
Source ID: 111

42-00197

Source Level Requirements

Source Name: 272 HP COMPRESSOR ENGINE

Source Capacity/Throughput: 2.500 MCF/HR Natural Gas



# I. RESTRICTIONS.

# Emission Restriction(s).

# 001 [25 Pa. Code §123.13]

### **Processes**

No person may permit the emission into the outdoor atmosphere of particulate matter from any process in a manner that the concentration of particulate matter in the effluent gas exceeds 0.04 grain per dry standard cubic foot, when the effluent gas volume is less than 150,000 dry standard cubic feet per minute.

# 002 [25 Pa. Code §123.21]

#### General

No person may permit the emission into the outdoor atmosphere of sulfur oxides from a source in a manner that the concentration of the sulfur oxides, expressed as SO2, in the effluent gas exceeds 500 parts per million, by volume, dry basis.

# 003 [25 Pa. Code §127.441]

Operating permit terms and conditions.

Operation of this source may not, at any time, result in the emission of Malodorous air contaminants in such a manner that the malodors are detectable outside the facility's property.

# [Authorization from GP-5 (42-197A) 2700-PM-0205 rev. 8/06]

# 004 [25 Pa. Code §127.441]

Operating permit terms and conditions.

Emissions from the 272 HP Compressor shall not exceed the following limitations (based on full load and the rated horsepower of the engine):

Pollutant Emission Limit Emission Limit

(short term) (tons/year, 12-month rolling total)

NOx 2.0 grams/hp-hr 5.25

-or-1.20 lbs/hr

VOC 1.0 grams/hp-hr 0.16

-or-0.036 lbs/hr

CO 2.0 grams/hp-hr 5.25

-or-1.20 lbs/hr

[Authorization from GP-5 (42-197A) 2700-PM-0205 rev. 8/06]

# 005 [25 Pa. Code §127.441]

Operating permit terms and conditions.

A person may not permit the emission into the outdoor atmosphere of visible air contaminants in such a manner that the

Page 20

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# SECTION D. Source Level Requirements

opacity of the emission is either of the following:

- (1) Equal to or great than 10% for a period or periods aggregating more than 3 minutes in any 1 hour.
- (2) Equal to or greater than 30% at any time.

[Authorization fromGP-5 (42-197A) 2700-PM-0205 rev. 8/06]

### II. TESTING REQUIREMENTS.

No additional testing requirements exist except as provided in other sections of this permit including Section B (State Only General Requirements).

### III. MONITORING REQUIREMENTS.

No additional monitoring requirements exist except as provided in other sections of this permit including Section B (State Only General Requirements).

### IV. RECORDKEEPING REQUIREMENTS.

# 006 [25 Pa. Code §127.441]

Operating permit terms and conditions.

The permittee shall maintain comprehensive, accurate records, which, at a minimum, shall include:

- i) The number of hours per calendar year that the source operated; and
- ii) The amount of fuel used per calendar year in the engine.

[Authorization from GP-5 (42-197A) 2700-PM-0205 rev. 8/06]

# V. REPORTING REQUIREMENTS.

# 007 [25 Pa. Code §127.441]

Operating permit terms and conditions.

- a) The permittee shall notify the Department by telephone within twenty-four (24) hours of the discovery of any malfunction of the source or any malfunction of the associated air cleaning device that results in, or may possibly be resulting in, the emission of air contaminants in excess of any applicable limitation specified herein or in excess of the limitations specified in any applicable rule or regulation contained in 25 Pa. Code Chapter 121 through 145, or that otherwise results in, or may possibly be resulting in, noncompliance with the requirements specified in any applicable condition of this Operating Permit.
- b) If the permittee is unable to provide notification within twenty-four (24) hours of discovery due to a weekend or holiday, the notification shall be made to the Department by no later than 4 p.m. on the first Department business day following the respective weekend or holiday. The permittee shall additionally provide whatever subsequent written report the Department may request regarding any reported malfunction.

# VI. WORK PRACTICE REQUIREMENTS.

# 008 [25 Pa. Code §127.441]

Operating permit terms and conditions.

- a) The permittee shall operate the source and control device in such a manner as not to cause air pollution, as define in 25 Pa. Code 121.1;
- b) The permittee shall operate and maintain the source and control device in a manner consistent with good operating and maintenance practices; and
- c) The permittee shall operate and maintain the source and control device in accordance with the manufacturer's specifications.



42-00197



# SECTION D. Source Level Requirements

[Authorization from GP-5 (42-197A) 2700-PM-0205 rev. 8/06]

# VII. ADDITIONAL REQUIREMENTS.

No additional requirements exist except as provided in other sections of this permit including Section B (State Only General Requirements).



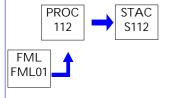




#### SECTION D. Source Level Requirements

Source ID: 112 Source Name: 425 HP COMPRESSOR ENGINE

> Natural Gas Source Capacity/Throughput: 2.500 MCF/HR



# RESTRICTIONS.

# Emission Restriction(s).

# 001 [25 Pa. Code §123.13]

### **Processes**

No person may permit the emission into the outdoor atmosphere of particulate matter from any process in a manner that the concentration of particulate matter in the effluent gas exceeds .04 grain per dry standard cubic foot, when the effluent gas volume is less than 150,000 dry standard cubic feet per minute.

[25 Pa. Code §123.21] # 002

#### General

No person may permit the emission into the outdoor atmosphere of sulfur oxides from a source in a manner that the concentration of the sulfur oxides, expressed as SO2, in the effluent gas exceeds 500 parts per million, by volume, dry basis.

# 003 [25 Pa. Code §127.441]

Operating permit terms and conditions.

Operation of the source may not, at any time, result in the emission of Malodorous air contaminants in such a manner that the malodors are detectable outside the facility's property.

# [Authorization from GP-5 (42-197) 2700-PM-0205 rev. 8/06]

# 004 [25 Pa. Code §127.441]

Operating permit terms and conditions.

Emissions from the 425 HP Compressor shall not exceed the following limitations (based on full load and the rated horsepower of the engine):

**Pollutant Emission Limit Emission Limit** 

> (short term) (tons/year, 12-month rolling total)

NOx 4.10 2.0 grams/hp-hr

0.93 lbs/hr

VOC 1.0 grams/hp-hr 2.13

> -or-0.49 lbs/hr

CO 7.5 2.0 grams/hp-hr

> -or-1.72 lbs/hr

[Authorization from GP-5 (42-197) 2700-PM-0205 rev. 8/06]

# 005 [25 Pa. Code §127.441]

Operating permit terms and conditions.

A person may not permit the emission into the outdoor atmosphere of visible air contaminants in such a manner that the







# SECTION D. Source Level Requirements

opacity of the emission is either of the following:

- (1) Equal to or great than 10% for a period or periods aggregating more than 3 minutes in any 1 hour.
- (2) Equal to or greater than 30% at any time.

[Authorization fromGP-5 (42-197A) 2700-PM-0205 rev. 8/06]

### II. TESTING REQUIREMENTS.

No additional testing requirements exist except as provided in other sections of this permit including Section B (State Only General Requirements).

### III. MONITORING REQUIREMENTS.

No additional monitoring requirements exist except as provided in other sections of this permit including Section B (State Only General Requirements).

### IV. RECORDKEEPING REQUIREMENTS.

# 006 [25 Pa. Code §127.441]

Operating permit terms and conditions.

The permittee shall maintain comprehensive, accurate records, which, at a minimum, shall include:

- i) The number of hours per calendar year that the source operated; and
- ii) The amount of fuel used per calendar year in the engine.

[Authorization from GP-5 (42-197) 2700-PM-0205 rev. 8/06]

# V. REPORTING REQUIREMENTS.

# 007 [25 Pa. Code §127.441]

Operating permit terms and conditions.

- a) The permittee shall notify the Department by telephone within twenty-four (24) hours of the discovery of any malfunction of the source or any malfunction of the associated air cleaning device that results in, or may possibly be resulting in, the emission of air contaminants in excess of any applicable limitation specified herein or in excess of the limitations specified in any applicable rule or regulation contained in 25 Pa. Code Chapter 121 through 145, or that otherwise results in, or may possibly be resulting in, noncompliance with the requirements specified in any applicable condition of this Operating Permit.
- b) If the permittee is unable to provide notification within twenty-four (24) hours of discovery due to a weekend or holiday, the notification shall be made to the Department by no later than 4 p.m. on the first Department business day following the respective weekend or holiday. The permittee shall additionally provide whatever subsequent written report the Department may request regarding any reported malfunction.

# VI. WORK PRACTICE REQUIREMENTS.

# 008 [25 Pa. Code §127.441]

Operating permit terms and conditions.

- a) The permittee shall operate the source in such a manner as not to cause air pollution, as define in 25 Pa. Code 121.1;
- b) The permittee shall operate and maintain the source in a manner consistent with good operating and maintenance practices; and
- c) The permittee shall operate and maintain the source in accordance with the manufacturer's specifications.

[Authorization from GP-5 (42-197) 2700-PM-0205 rev. 8/06]





# SECTION D. Source Level Requirements

# VII. ADDITIONAL REQUIREMENTS.

No additional requirements exist except as provided in other sections of this permit including Section B (State Only General Requirements).

DEP Auth ID: 837308





# SECTION E. Alternative Operation Requirements.

No Alternative Operations exist for this State Only facility.

DEP Auth ID: 837308





# ATLAS ENERGY RESOURCES LLC/IRISHTOWN GAS PLT



# SECTION F. Emission Restriction Summary.

102 384 HP COMPRESSOR ENGINE (INLET 2)

Emission Limit			Pollutant
1.690	Lbs/Hr		CO
2.000	GRAMS/HP-Hr		CO
7.400	Tons/Yr	per 12-month rolling total	CO
1.690	Lbs/Hr		NOX
2.000	GRAMS/HP-Hr		NOX
7.400	Tons/Yr	per 12-month rolling total	NOX
0.850	Lbs/Hr		VOC
1.000	GRAMS/HP-Hr		VOC
3.700	Tons/Yr	per 12-month rolling total	VOC

107 384 HP COMPRESSOR ENGINE (INLET)

Emission Limit			Pollutant
1.690	Lbs/Hr		CO
2.000	GRAMS/HP-Hr		CO
7.400	Tons/Yr	per 12-month rolling total	CO
1.690	Lbs/Hr		NOX
2.000	GRAMS/HP-Hr		NOX
7.400	Tons/Yr	per 12-month rolling total	NOX
0.850	Lbs/Hr		VOC
1.000	GRAMS/HP-Hr		VOC
3.700	Tons/Yr	per 12-month rolling total	VOC
		1 3 3	

#### 111 272 HP COMPRESSOR ENGINE

Emission Limit			Pollutant
1.200	Lbs/Hr		CO
2.000	GRAMS/HP-Hr		CO
5.250	Tons/Yr	per 12-month rolling total	CO
1.200	Lbs/Hr		NOX
2.000	GRAMS/HP-Hr		NOX
5.250	Tons/Yr	per 12-month rolling total	NOX
500.000	PPMV	dry basis	SOX
0.040	gr/DRY FT3		TSP
0.036	Lbs/Hr		VOC
0.160	Tons/Yr	per 12-month rolling total	VOC
1.000	GRAMS/HP-Hr		VOC

#### 425 HP COMPRESSOR ENGINE 112

Emission Limit			Pollutant
1.720	Lbs/Hr		CO
2.000	GRAMS/HP-Hr		CO
7.500	Tons/Yr	per 12-month rolling total	CO
0.935	Lbs/Hr		NOX
2.000	GRAMS/HP-Hr		NOX
4.100	Tons/Yr	per 12-month rolling total	NOX







# SECTION F. Emission Restriction Summary.

Source Id	Source Description			
500.000	PPMV	dry basis	SOX	
0.040	gr/DRY FT3	. <b>,</b>	TSP	
0.490	Lbs/Hr		VOC	
1.000	GRAMS/HP-Hr		VOC	
2.130	Tons/Yr	per 12-month rolling total	VOC	

Site Emission Restriction Summary

Emission Limit Pollutant
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### SECTION G. Miscellaneous.

- (a) The original Operating Permit No. NM-42-00197 (issued February 12, 2004) has been Administratively Amended to incorporate the applicable requirements of Plan Approval No. 42-197C. The plan approval was for the installation of a 384 hp inlet compressor, 350 hp refrigerant compressor, and a reboiler.
- (b) The original Operating Permit No. NM-42-00197 (issued February 12, 2004) has been Administratively Amended to incorporate the applicable requirements of Plan Approval No. 42-197D and 42-197E on March 15, 2007. Plan Approval 42-197D is for the removal of the controls for the reboiler. Plan Approval E is for the construction of a compressor engine. The permit expiration date will remain January 31, 2009.
- (c) The original Operating Permit No. NM-42-00197 (issued February 12, 2004) has been Administratively Amended to incorporate the Change of Ownership, Responsible Official and Permit Contact on October 24, 2007. Atlas Pipeline purchased the facility from M&M Royalty on August 15, 2007. The Administrative Amendment also included the incorporation of the GP-5 requirements for Source 110 issued by the Department on October 23, 2007.
- (d) For the purpose of this operating permit, Source 032- Reboiler was dismantled and removed from the facility's site on January 30, 2009. This source has been removed from the operating permit and replaced with Source 033-Reboiler through an RFD approved on January 29, 2009.
- (e) For the purpose of this operating permit, Source 103-50 HP Compressor Engine was dismantled and removed from the facility's site on or about December 2007. This source has been removed from the operating permit.
- (f) For the purpose of this operating permit, Source 109- 500 HP Compressor Engine (Inlet 3) was dismantled and removed from the facility's site on or about December 2008. This source has been removed from the operating permit. GP-42-197A was issued in July 2008 for a 272 HP Compressor Engine Cat 3406 (Source 111) that will replace the removed engine.
- (g) For the purpose of this operating permit, Source 110- 400 HP CAT 3408TA Compressor Engine was dismantled and removed from the facility's site on October 20, 2008. This source has been removed from the operating permit. Source 112- 425 HP Compressor Engine was installed October 20, 2008 to replace the previous engine. This engine is compliant under GP-42-197 issued October 2007.
- (h) An Administrative Amendment Form was received on January 20, 2009 for the change of the Responsible Official for the operating permit. James Novacek, Senior Facility Engineer, will hold the current title of Responsible Official.
- (i) Operating Permit No. 42-00197 is being re-issued on March 27, 2009 and will expire on February 28, 2014.
- (j) Operating Permit 42-00197 was administratively amended on August 18, 2009 to incorporate the facility change of ownership, responsible official, and contact person. Jay Irwin Operations and Technical Services Manager, was also designated as a duly authorized representative.
- (k) The Permit was administritvely amended on August 3, 2010 to incorporate the facility change of ownership, responsible official, and contact person. The Last date of operation for the stripping operations was 5/22/2009. The facility did not submit a maintenance plan and indicated in 7/16/2010 email that the facility has no intention of starting the stripping plant again. Therefore; Source 033 Reboiler, Source 105 Equipment Leaks, and Source 106 Storage Tanks & Loading were removed from the permit.



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\*\*\*\*\* End of Report \*\*\*\*\*