**PERMIT APPLICATION FOR DRILLING OR ALTERING A WELL**

**COMMONWEALTH OF PENNSYLVANIA**
**DEPARTMENT OF ENVIRONMENTAL PROTECTION**
**OIL & GAS MANAGEMENT PROGRAM**

<table>
<thead>
<tr>
<th>Notes</th>
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</tr>
</thead>
<tbody>
<tr>
<td>OGO #: 67710</td>
<td></td>
</tr>
<tr>
<td>Bond #: 10768</td>
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<tr>
<td>Date Approved: 10/5/11</td>
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<tr>
<td>Wall Permit #: 133-3395</td>
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<tr>
<td>Special Cond.</td>
<td>A B C D E F</td>
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<tr>
<td>Date:</td>
<td></td>
</tr>
<tr>
<td>Designation:</td>
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</tr>
</tbody>
</table>

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**Applicant (Operator Name):**
 **Owned Lake Properties, LLC**

**Address:**
  5200 WILMER RD, UNIT 109, #233, WEXFORD

**County:**
 **Washington**

**Municipality:**
 **Columbus**

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**WELL INFORMATION**

**Well #:** 1

**Serial #:**

**Well Name:**
 **Joseph Bittinger**

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**PERMIT TYPE**

**Application to:**
 Drill a new well
 Deepen a well
 Redrill a well
 After a well
 E&P Control Module
 Other (specify)

**TYPE OF WELL**

**Check one:**
 Gas
 Oil
 Comb. (gas & oil)
 Injection, recovery
 Injection, disposal
 Coiled Tubing
 Gas Storage
 Other (specify)

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**APPLICATION FEE**

Check if new address.
 Marcellus Well: Non-Vertical
 Marcellus Well: Vertical
 Non-Marcellus Well: Non-Vertical
 Non-Marcellus Well: Vertical
 $200 (Home Use Well)
 $500 E&P Fee
 $0 (Rehab or orphan)
 Vertical Length
 Marcellus Length
 Non-Marcellus Length

---

**COORDINATION WITH REGULATIONS AND OTHER PERMITS**

<table>
<thead>
<tr>
<th>Yes</th>
<th>No</th>
<th>DEP USE ONLY</th>
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<tbody>
<tr>
<td></td>
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**Signature of Applicant**

**Joel Kimmich**

**Application Preparer/Contact:**
 **Karl Kimmich**

**Date:** 8/15/2011
PERMIT APPLICATION FOR DRILLING OR ALTERING A WELL
Page 2 --- Record of Notification / Written Consent

List the following: surface landowner; all landowners or water purveyors whose water supplies are within 1,000 feet of this proposed well location; gas storage operator if within 2,000 feet; all coal owners and lessees of all underlying workable coal seams; operators of underground coal mines at the proposed location; and coal operators with a deep mine within 1,000 feet. Mark the boxes, "X," which show the parties' interests. Use additional forms if you need more space. You are required to notify each of these parties.

| Name: Milo Sampsell | Address: 8253 Pangman Rd. Erie, PA 16509 | Date: 8/18 |
| Name: | Address: |
| Name: | Address: |
| Name: | Address: |
| Name: | Address: |
| Name: | Address: |

Optional: Signature below indicates the party’s approval of the well location, and waives the 15-day objection period. Check applicable box.

- Water Purveyor or Landowner with water supply within 1,000 ft.
- Coal Operator, Owner, or Lessee
- Date

- Water Purveyor or Landowner with water supply within 1,000 ft.
- Coal Operator, Owner, or Lessee
- Date

- Water Purveyor or Landowner with water supply within 1,000 ft.
- Coal Operator, Owner, or Lessee
- Date

- Water Purveyor or Landowner with water supply within 1,000 ft.
- Coal Operator, Owner, or Lessee
- Date

- Surface Landowner at proposed location
- Coal Operator within 1,000 feet of proposed location
- Date

- Surface Landowner at proposed location
- Gas Storage Operator within 2,000 feet
- Date

Signature below indicates written consent. Check applicable box.

- Owner of: water supply, or building within 200 feet
- Address (of above)
- Date

- Owner of: water supply, or building within 200 feet
- Address (of above)
- Date
1. PROJECT INFORMATION

Project Name: Lion Energy
Date of review: 3/14/2011 6:55:30 PM
Project Category: Energy Storage, Production, and Transfer, Energy Transfer, Pipeline (e.g., gas, oil) -- NEW (construction of new line in a new location)
Project Length: 4886.3 feet
County: Warren Township/Municipality: Columbus
Quadrangle Name: COLUMBUS ~ ZIP Code: 16405
Decimal Degrees: 41.994998 N, -79.532990 W
Degrees Minutes Seconds: 41° 59' 42" N, -79° 31' 58.8" W

2. SEARCH RESULTS

<table>
<thead>
<tr>
<th>Agency</th>
<th>Results</th>
<th>Response</th>
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</thead>
<tbody>
<tr>
<td>PA Game Commission</td>
<td>No Known Impact</td>
<td>No Further Review Required</td>
</tr>
<tr>
<td>PA Department of Conservation and Natural Resources</td>
<td>Potential Impact</td>
<td>FURTHER REVIEW IS REQUIRED, See Agency Response</td>
</tr>
<tr>
<td>PA Fish and Boat Commission</td>
<td>No Known Impact</td>
<td>No Further Review Required</td>
</tr>
<tr>
<td>U.S. Fish and Wildlife Service</td>
<td>No Known Impact</td>
<td>No Further Review Required</td>
</tr>
</tbody>
</table>

As summarized above, Pennsylvania Natural Diversity Inventory (PNDI) records indicate there may be potential impacts to threatened and endangered and/or special concern species and resources within the project area. If the response above indicates "No Further Review Required" no additional communication with the respective agency is required. If the response is "Further Review Required" or "See Agency Response," refer to the appropriate agency comments below. Please see the DEP Information Section of this receipt if a PA Department of Environmental Protection Permit is required.
RESPONSE TO QUESTION(S) ASKED

Q1: "Accurately describe what is known about wetland presence in the project area or on the land parcel by selecting ONE of the following. "Project" includes all features of the project (including buildings, roads, utility lines, outfall and intake structures, wells, stormwater retention/detention basins, parking lots, driveways, lawns, etc.), as well as all associated impacts (e.g., temporary staging areas, work areas, temporary road crossings, areas subject to grading or clearing, etc.). Include all areas that will be permanently or temporarily affected -- either directly or indirectly -- by any type of disturbance (e.g., land clearing, grading, tree removal, flooding, etc.). Land parcel = the lot(s) on which some type of project(s) or activity(s) are proposed to occur." Your answer is: "4. Someone qualified to identify and delineate wetlands has investigated the site, and determined that wetlands ARE located in or within 300 feet of the project area. (A written report from a wetland specialist, and detailed project maps should document this.)"

Q2: "Will the entire project area (including any discharge), plus a 300 feet buffer around the project area, all occur in or on an existing building, parking lot, driveway, road, road shoulder, street, runway, paved area, railroad bed, maintained (periodically mown) lawn, crop agriculture field or maintained orchard?" Your answer is: 2. No

Q3: Aquatic habitat (stream, river, lake, pond, etc.) is located on or adjacent to the subject property and project activities (including discharge) may occur within 300 feet of these habitats.

Your answer is: 2. No

3. AGENCY COMMENTS

Regardless of whether a DEP permit is necessary for this proposed project, any potential impacts to threatened and endangered species and/or special concern species and resources must be resolved with the appropriate jurisdictional agency. In some cases, a permit or authorization from the jurisdictional agency may be needed if adverse impacts to these species and habitats cannot be avoided.

These agency determinations and responses are valid for one year (from the date of the review), and are based on the project information that was provided, including the exact project location; the project type, description, and features; and any responses to questions that were generated during this search. If any of the following change: 1) project location, 2) project size or configuration, 3) project type, or 4) responses to the questions that were asked during the online review, the results of this review are not valid, and the review must be searched again via the PNDI Environmental Review Tool and resubmitted to the jurisdictional agencies. The PNDI tool is a primary screening tool, and a desktop review may reveal more or fewer impacts than what is listed on this PNDI receipt. The jurisdictional agencies strongly advise against conducting surveys for the species listed on the receipt prior to consultation with the agencies.

PA Game Commission
RESPONSE: No Impact is anticipated to threatened and endangered species and/or special concern species and resources.

PA Department of Conservation and Natural Resources
RESPONSE: Further review of this project is necessary to resolve the potential impacts(s). Please send project information to this agency for review (see WHAT TO SEND).

DCNR Species: (Note: The PNDI tool is a primary screening tool, and a desktop review may reveal more or fewer species than what is listed below. After desktop review, if a botanical survey is required by DCNR, we recommend the DCNR Botanical Survey Protocols, available
PA Fish and Boat Commission
RESPONSE: No impact is anticipated to threatened and endangered species and/or special concern species and resources.

U.S. Fish and Wildlife Service
RESPONSE: No impacts to federally listed or proposed species are anticipated. Therefore, no further consultation/coordination under the Endangered Species Act (87 Stat. 884, as amended; 16 U.S.C. 1531 et seq. is required. Because no take of federally listed species is anticipated, none is authorized. This response does not reflect potential Fish and Wildlife Service concerns under the Fish and Wildlife Coordination Act or other authorities.

* Special Concern Species or Resource - Plant or animal species classified as rare, tentatively undetermined or candidate as well as other taxa of conservation concern, significant natural communities, special concern populations (plants or animals) and unique geologic features.
** Sensitive Species - Species identified by the jurisdictional agency as collectible, having economic value, or being susceptible to decline as a result of visitation.

WHAT TO SEND TO JURISDICTIONAL AGENCIES

If project information was requested by one or more of the agencies above, send the following information to the agency(s) seeking this information (see AGENCY CONTACT INFORMATION).

Check-list of Minimum Materials to be submitted:

___ SIGNED copy of this Project Environmental Review Receipt
___ Project narrative with a description of the overall project, the work to be performed, current physical characteristics of the site and acreage to be impacted.
___ Project location information (name of USGS Quadrangle, Township/Municipality, and County)
The inclusion of the following information may expedite the review process.

- A basic site plan (particularly showing the relationship of the project to the physical features such as wetlands, streams, ponds, rock outcrops, etc.)
- Color photos keyed to the basic site plan (i.e. showing on the site plan where and in what direction each photo was taken and the date of the photos)
- Information about the presence and location of wetlands in the project area, and how this was determined (e.g., by a qualified wetlands biologist), if wetlands are present in the project area, provide project plans showing the location of all project features, as well as wetlands and streams
- The DEP permit(s) required for this project

4. DEP INFORMATION

The Pa Department of Environmental Protection (DEP) requires that a signed copy of this receipt, along with any required documentation from jurisdictional agencies concerning resolution of potential impacts, be submitted with applications for permits requiring PNDI review. For cases where a "Potential Impact" to threatened and endangered species has been identified before the application has been submitted to DEP, the application should not be submitted until the impact has been resolved. For cases where "Potential Impact" to special concern species and resources has been identified before the application has been submitted, the application should be submitted to DEP along with the PNDI receipt, a completed PNDI form and a USGS 7.5 minute quadrangle map with the project boundaries delineated on the map. The PNDI Receipt should also be submitted to the appropriate agency according to directions on the PNDI Receipt. DEP and the jurisdictional agency will work together to resolve the potential impact(s). See the DEP PNDI policy at http://www.naturalheritage.state.pa.us.
5. ADDITIONAL INFORMATION
The PNDI environmental review website is a preliminary screening tool. There are often delays in updating species status classifications. Because the proposed status represents the best available information regarding the conservation status of the species, state jurisdictional agency staff give the proposed statuses at least the same consideration as the current legal status. If surveys or further information reveal that a threatened and endangered and/or special concern species and resources exist in your project area, contact the appropriate jurisdictional agency/agency immediately to identify and resolve any impacts.

For a list of species known to occur in the county where your project is located, please see the species lists by county found on the PA Natural Heritage Program (PNHP) home page (www.naturalheritage.state.pa.us). Also note that the PNDI Environmental Review Tool only contains information about species occurrences that have actually been reported to the PNHP.

6. AGENCY CONTACT INFORMATION
PA Department of Conservation and Natural Resources
Bureau of Forestry, Ecological Services Section
400 Market Street, PO Box 8552, Harrisburg, PA, 17105-8552
Fax: (717) 772-0271

U.S. Fish and Wildlife Service
Endangered Species Section
315 South Allen Street, Suite 322, State College, PA. 16801-4851
NO Faxes Please.

PA Fish and Boat Commission
Division of Environmental Services
450 Robinson Lane, Bellefonte, PA. 16823-7437
NO Faxes Please

PA Game Commission
Bureau of Wildlife Habitat Management
Division of Environmental Planning and Habitat Protection
2001 Elmerton Avenue, Harrisburg, PA. 17110-9797
Fax: (717) 787-6957

7. PROJECT CONTACT INFORMATION
Name: Eric McClean
Company/Business Name: Greenhome & O'Mara, Inc.
Address: 5000 River Road, Suite 102
City, State, Zip: Mechanicsburg, PA 17055
Phone: (717) 491-3355 Fax: (717) 491-3356
Email: emcclean@greenhome.com

8. CERTIFICATION
I certify that ALL of the project information contained in this receipt (including project location, project size/configuration, project type, answers to questions) is true, accurate and complete. In addition, if the project type, location, size or configuration changes, or if the answers to any questions that were asked during this online review change, I agree to re-do the online environmental review.

Applicant Signature: [Signature]
Date: 12-02-11

Page 5 of 5
September 2, 2011

Eric McCleary
Damariscotta
650 Merle Street, Suite C
Clairion, PA 16214
FAX: 814-225-5861 (Hard copy will not follow)

Re: Lion Energy Company LLC. GP-5- wetland crossing/proposed water pipeline
Columbus Township, Warren County

Dear Mr. McCleary,

Thank you for the submission of the Pennsylvania Natural Diversity Inventory (PNDI) Environmental Review Receipt Number 20110314287990 for review. PA Department of Conservation and Natural Resources screened this project for potential impacts to species and resources of concern under DCNR’s responsibility, which includes plants, terrestrial invertebrates, natural communities, and geologic features only.

**No Impact Anticipated as per Survey**

PNDI records indicate species or resources of concern are located in the vicinity of the project. DCNR has considered the nature of the project, the immediate location, our detailed resource information, and a survey report prepared by Damariscotta: DCNR has determined that no impact is likely. No further coordination with our agency is needed for this project. Conservation measures for terrestrial invertebrates are provided in a document following this letter.

This response represents the most up-to-date summary of the PNDI data files and is valid for one (1) year from the date of this letter. An absence of recorded information does not necessarily imply actual conditions on-site. Should project plans change or additional information on listed or proposed species become available, this determination may be reconsidered. Should the proposed work continue beyond the period covered by this letter, please resubmit the project to this agency as an “Update” (including an updated PNDI receipt, project narrative and accurate map).

This finding applies to impacts to DCNR only. To complete your review of state and federally-listed threatened and endangered species and species of special concern, please be sure the U.S. Fish and Wildlife Service, PA Game Commission, and the Pennsylvania Fish and Boat Commission have been contacted regarding this project as directed by the online PNDI ER Tool found at www.naturalheritage.state.pa.us.

Sincerely,

Adam M. Hnatkovich, Environmental Review Specialist FOR Chris Firestone, Wild Plant Program Mgr.
Ph: 717-705-2822 Fax: 717-772-0271 Email: c-ahnatkov@state.pa.us
Conservation Measures for Terrestrial Invertebrate Species of Special Concern

Information from PA Natural Heritage Program and
Butterflies and Skippers of Ohio (Iftner et al. 1992)

_Euphydryas phaeton_ (baltimore checkerspot): Globally apparently secure (G4), State vulnerable (S3); _E. phaeton_ prefers wet meadows, bogs, and marshes. Larval host-plants include turtlehead, hairy beardtongue, English plantain, and false foxglove (before hibernating), and arrowwood as a larval host after overwintering. Nectar sources include milkweed, viburnum, and wild rose. Disturbance to plant communities that contain larval host-plants and/or food sources should be minimized.

_Euphyes conspicus_ (Black dash): Globally apparently secure (G4), State vulnerable (S3). Preferred habitat includes boggy marshes, wet meadows, and marshy streambanks. Larval host-plants include upright sedge and other narrow-leaved sedges (Iftner et al. 1992). Food sources include nectar from flowers of buttonbush, jewelweed, and swamp thistle. Other food-plants have been suggested by Iftner et al. (1992) which include common milkweed, swamp milkweed, wild bergamot, pickerel-weed, and vetchling. Avoiding disturbance to preferred habitats could benefit _E. conspicus_. Any efforts to revegetate disturbed areas, should this be a procedure for your project, could incorporate flowering, native plant species, including those nectar sources listed above: this could create valuable food-sources for local populations of adult _E. conspicus_. DCNR can provide information on native seed-mixes upon request.

_Poanes viator viator_ (broad-winged skipper): Globally secure, Taxon apparently secure (G5T4), State imperiled to vulnerable (S2S3). This skipper inhabits a variety of wetland habitats, including sedge meadows, fens, swamps, and scrubby marshes. In Ohio, _P. viator viator_ is thought to use broad-leaved sedge species as hostplants. Adult nectar sources are thought to include certain milkweed species, alfalfa, wild bergamot, blazing star, and vetchling. In Pennsylvania, _P. viator viator_ has been noted in wetlands having established sedge-communities. Preferred habitat and host information is not available for _P. viator viator_ in Pennsylvania. However, minimizing disturbances to wetlands where large sedge communities are present could minimize habitat loss for _P. viator viator_. Also, minimizing disturbance to plant communities that harbor potential nectar sources (e.g. milkweeds, vetchling; see above) could benefit _P. viator viator_.

_Euphyes dion_ (Dion skipper): Globally apparently secure (G4), State imperiled (S2). This species prefers to inhabit swamps, open marshes, and bogs. Larval host-plants include various sedges, including woolgrass (_Seirupus cyperinus_), hairy sedge (_Carex lacustris_), and shoreline sedge (_C. hyalinolepis_). Adult food-sources include nectar from flowers of pickerelweed, sneezeweed, milkweeds, thistles, teasels, and buttonbush. Minimizing disturbances to wetlands where large sedge communities are present could minimize habitat loss for _E. dion_. Avoiding or minimizing disturbance to plant communities that are dominated by flowering plants, including nectar sources for _E. dion_, could benefit local populations of this species.

_Satyrodes eurydice_ (eyed brown): Globally apparently secure (G4), State vulnerable (S3). Preferred habitat for _S. Eurydice_ includes ppen sedge meadows, freshwater marshes, slow-moving streams, and cord grass swales in tallgrass prairies. Larval host-plants include various sedge species (_Carex stricta_, _C. lupulina_, _C. bromoides_, and _C. trichocarpa_). Adult food-sources may include wild bergamot, and can be found perched on sedges. Avoiding disturbances to sedge meadows could benefit local populations of this species.

conserve sustain enjoy
## Groundwater Wells Within 1 Mile of Bittinger #1 Well, Warren County, PA

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<th>WELL NAME</th>
<th>WELL ID</th>
<th>LATITUDE</th>
<th>LONGITUDE</th>
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<td>Glacial Units</td>
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</table>

Notes

- Black shading indicates that this unit is considered to be a confining zone.
- Diagonal shading indicates that this unit is a confining unit that also contains producing zones within it.
- No shading indicates that this unit is a producing zone and is not considered to be a confining unit.