**PERMIT APPLICATION TO DRILL AND OPERATE A CONVENTIONAL WELL**

### WELL INFORMATION

<table>
<thead>
<tr>
<th>Well Operator</th>
<th>Seneca Resources Company, LLC</th>
<th>DEP ID</th>
<th>72933</th>
</tr>
</thead>
<tbody>
<tr>
<td>Address</td>
<td>51 Zents Blvd.</td>
<td>LAT</td>
<td>41°36′ 44.94&quot;</td>
</tr>
<tr>
<td>City</td>
<td>Brookville</td>
<td>NAD</td>
<td>83</td>
</tr>
<tr>
<td>Municipality Name</td>
<td>Highland Township</td>
<td>County</td>
<td>Elk</td>
</tr>
<tr>
<td>Phone/Fax/Email</td>
<td>814-849-4555/814-849-4795</td>
<td><a href="mailto:keplerd@srcx.com">keplerd@srcx.com</a></td>
<td>USGS 7.5 min. quadrangle map James City</td>
</tr>
</tbody>
</table>

**24/7 Emergency Phone contact number:** 800-526-2608-mention SRC

**Pending**

- **Check if this is a new address:**
- **Freshwater Impoundment Name/Identification:** N/A
- **Centralized Impoundment Name/Identification:** N/A
- **Well Pad Name/Identification:** N/A
- **BOR Area Name/Identification:** N/A

**Surface Elev:** 2028 / Elk

**Target Formation(s) proposed for production:** Elk

**Anticipated TVD:** 2565

**Anticipated Target Top/Bottom TVD:** 2327 2372

**Number of wellbore laterals proposed under this application:** 1

**Total feet of wellbore to be drilled under this application:** 2565 Ft.

**Number of wellbores laterals proposed under this application:** 1

If applying for a permit to rework an existing well not registered or permitted, check this box [ ] and enter date drilled, if known: (see instructions)

**PDNI Attached:** [ ] Any threatened or endangered "hit" must include a copy of the clearance letter from the applicable agency(ies).

**Application submitted as:**
- Coal well: [ ] Attach Coal Module
- CBM well: [ ] Attach Coal Module
- Non coal well: [ ] Attach justification.

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**COORDINATION WITH REGULATIONS AND OTHER PERMITS**

1. Will the well be subject to the Oil and Gas Conservation Law? If "No," go to 2).
   a. If "Yes" to #1, is the well at least 330 feet from outside lease or unit boundary?
   b. Does the location fall within an area covered by a spacing order?
   c. If the well will be multilateral, identify the wellbores on the sketch on page 3 of the plat that will be completed as conservation and non-conservation.

2. Will the edge of the disturbed area of any portion of the well site of a conventional well be within 100 feet from the edge of any solid blue lined *stream, spring or body of water* identified on the most current 7½’ topographic quadrangle map or wetland greater than one acre in size or in a wetland?
3. Will the well penetrate or be within 2,000 feet of an active gas storage reservoir boundary?  
   a. If Yes, print the names of: Storage Field: Operator:

4. Is the proposed well location within the permitted area of a landfill?

5. Will the well be drilled within 200 feet from any existing building or an existing water supply?  
   a. If "Yes," is written consent from the owner attached?  
   b. If written consent is not attached, is a variance request (form 8000-FM-OOGM0058) attached?

6. Will the well be located where it may impact a public resource as outlined in the "Coordination of a Well Location with Public Resources" form 5500-PM-OOG0076? If yes, attach a competed copy of the form and clearance letters from applicable agencies.

7. Will any portion of the well site be in a Special Protection High Quality \(\Box\) (HQ) or Exceptional Value \(\Box\) (EV) watershed?  
   Provide name of special protection stream UNT to Wolf Run.  
   7.1 Will the well be drilled using enhanced drilling or completion technologies into a formation that typically produces gas or petroleum?

8. Is this well part of a development which requires an Earth Disturbance Permit for Oil and Gas Activities disturbing more than 5 acres? If yes, list the number of the ESCGP approval if the permit has been issued.

8.1 Is the disturbed area of the well site between 1 to 5 acres and in a Special Protection Watershed

9. Is waste, including drill cuttings, from the drilling of this well is to be disposed of on this well site? Yes \(\Box\) No \(\Box\)

10. Will the well or well site be located within a defined 100 year floodplain or where the floodplain is undefined, within 100 feet of the top of the bank of a perennial stream or within 50 feet of the top of the bank of an intermittent stream.  
   a. If yes, is a waiver request attached that will protect the Waters of the Commonwealth? Yes \(\Box\) No \(\Box\)

11. Is the well to be located within a \(\text{H}_2\text{S}\) area pursuant to §78.77a? Yes \(\Box\) No \(\Box\)

12. Attach a current Ownership & Control form 8000-FM-OOGM0118.

<table>
<thead>
<tr>
<th>Signature of Applicant</th>
<th>The person signing this form attests that they have the authority to submit this application on behalf of the applicant, and that the information, including all related submissions, is true and accurate to the best of their knowledge.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Signature of Person Authorized to Submit Application</td>
<td>(Print or Type) Name: DOUGLAS KEPLER Title: Vice President-Env. Engineering</td>
</tr>
<tr>
<td>Date 10/24/2019</td>
<td>Phone: 814-220-1511</td>
</tr>
</tbody>
</table>

Application Prepared/Contact: BARB REINARD
DEP Statewide toll-free phone number for reporting cases of water contamination which may be associated with development of oil and gas resources is **1-866-255-5158**.

<table>
<thead>
<tr>
<th>Applicant / Well Operator Name</th>
<th>DEP ID#</th>
<th>Well (Farm) Name</th>
<th>Well #</th>
<th>Serial #</th>
</tr>
</thead>
<tbody>
<tr>
<td>Seneca Resources Company, LLC</td>
<td>72933</td>
<td>FEE SRC WT 3771</td>
<td>38282</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Surface Landowner / Lessee</th>
<th>Angle &amp; Course of Deviation (Drilling):</th>
<th>Anticipated True Vertical Depth Feet (TVD):</th>
<th>Anticipated Total Measured Depth Feet (TMD):</th>
</tr>
</thead>
<tbody>
<tr>
<td>Seneca Resources Company, LLC</td>
<td>Vertical</td>
<td>2,565</td>
<td>2,565</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Target Formation(s):</th>
<th>Deepest Formation to be penetrated:</th>
<th>Number of laterals:</th>
<th>Total footage to be drilled all laterals:</th>
</tr>
</thead>
<tbody>
<tr>
<td>Elk</td>
<td>Elk</td>
<td>0</td>
<td>2,565</td>
</tr>
</tbody>
</table>

Surface Owner/Water Purveyor w/Water Supply within 1000'-3000'  

Latitude Longitude of Water Supply

Municipality: where the well will be drilled, adjacent to the well, or within 3000 feet

- Highland Twp, Elk Co
- Welmore Twp, McKean Co
- Sheffield Twp, Warren Co
- Juncs Twp, Elk Co
- Howe Twp, Forest Co
- Ridgway Twp, Elk Co
- Jenks Twp, Forest Co
- Spring Creek Twp, Elk Co

Coal related parties

N/A
Applicant / Well Operator Name: Seneca Resources Company, LLC
DEP ID #: 72933
Address: 51 Zents Blvd, Brookville, PA 15825

Well (Farm) Name: FEE SRC WT 3771
Well #: 36282
Serial #: 36282
County: Elk
Municipality: Highland Twp
Well Type: Gas
USGS 7 1/2 Quadrangle Map Name: James City, PA
Map Section: 2
Surface Elevation: 2028 ft

Surveyor or Engineer: Richard J. McLaughlin IV
Phone #: 412-548-2516
MXD: 36282_MPL_FML_201711
Date: 5/17/10
1 in = 1,000 ft
Tract Acreage: 289 ±

Lat. & Long Metadata Method: GPSDF
Accuracy: ± 3 ft
Datum: National Datum of the United States 1988 (NAD88)

Elevation Metadata Method: PASSDSA UTM
Accuracy: ±10 ft
Datum: NAVD88
Survey Date: 1/30/07
### Permit Application to Drill and Operate a Conventional Well

**Record of Notification**

List the following: surface landowner, surface landowners and water purveyors with water supplies within 1300 feet; municipality where the well will be drilled; adjacent municipality; gas storage operator if within 2000 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.

**Notification:** Signature below name indicates the party's acknowledgement of receipt of the well location plat and serves as proof of notification.

<table>
<thead>
<tr>
<th>Printed Name: Seneca Resources Company, LLC</th>
<th>Address: 51 Zantz Blvd. Brookville, PA 15825</th>
<th>Surface Landowner</th>
<th>Gas Storage Operator</th>
<th>Municipalities</th>
<th>Date</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Signature</strong></td>
<td></td>
<td>X</td>
<td>*</td>
<td>5/22/2019</td>
<td>5-03-19</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Printed Name: Highland Township</th>
<th>Address: PO Box 505 James City, PA 16734</th>
<th>Surface Landowner</th>
<th>Gas Storage Operator</th>
<th>Municipalities</th>
<th>Date</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Signature</strong></td>
<td></td>
<td>X</td>
<td>*</td>
<td>5/22/2019</td>
<td>5-03-19</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Printed Name: Wetmore Township</th>
<th>Address: 318 Spring Street Kane, PA 16735</th>
<th>Surface Landowner</th>
<th>Gas Storage Operator</th>
<th>Municipalities</th>
<th>Date</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Signature</strong></td>
<td></td>
<td>X</td>
<td>*</td>
<td>5/22/2019</td>
<td>5-24-19</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Printed Name: Sheffield Township</th>
<th>Address: PO Box 784 Sheffield, PA 16347</th>
<th>Surface Landowner</th>
<th>Gas Storage Operator</th>
<th>Municipalities</th>
<th>Date</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Signature</strong></td>
<td></td>
<td>X</td>
<td>*</td>
<td>5/22/2019</td>
<td>5-24-19</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Printed Name: Jones Township</th>
<th>Address: 320 Faries Street Wilcox, PA 15870</th>
<th>Surface Landowner</th>
<th>Gas Storage Operator</th>
<th>Municipalities</th>
<th>Date</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Signature</strong></td>
<td></td>
<td>X</td>
<td>*</td>
<td>5/22/2019</td>
<td>5-25-19</td>
</tr>
</tbody>
</table>

### Record of Written Consent

**Written Consent:** Signature below indicates the party's approval of the well location, or indicates written consent and waives the 15-day objection period where applicable.

Check applicable box:

<table>
<thead>
<tr>
<th>Printed Name:</th>
<th>Address:</th>
<th>Date:</th>
<th>Surface Owner</th>
<th>Water Well within 200 feet</th>
<th>Building within 200 feet</th>
</tr>
</thead>
</table>
List the following: surface landowner; surface landowners and water purveyors with water supplies within 1000 feet; municipality where the well will be drilled; adjacent municipality; gas storage operator if within 2000 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.

**Notification:** Signature below name indicates the party's acknowledgement of receipt of the well location plat and serves as proof of notification.

<table>
<thead>
<tr>
<th>Print Name</th>
<th>Address</th>
<th>Municipality</th>
<th>Notification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Howe Township</td>
<td>7947 Route 666</td>
<td>Sheffield, PA 16347</td>
<td>X 5/22/2019</td>
</tr>
<tr>
<td>Signature</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Ridgway Township</td>
<td>1537-A Montmorenci Road</td>
<td>Ridgway, PA 15853</td>
<td>X 5/22/2019</td>
</tr>
<tr>
<td>Signature</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Jenks Township</td>
<td>PO Box 436</td>
<td>Marienville, PA 16239</td>
<td>X 5/22/2019</td>
</tr>
<tr>
<td>Signature</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Spring Creek Township</td>
<td>2491 Spring Creek Road</td>
<td>Ridgway, PA 15853</td>
<td>X 5/22/2019</td>
</tr>
<tr>
<td>Signature</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Record of Written Consent**

Written Consent: Signature below indicates the party's approval of the well location, or indicates written consent and waives the 15-day objection period where applicable.

Check applicable box

<table>
<thead>
<tr>
<th>Print and Sign Name</th>
<th>Address</th>
<th>Date</th>
<th>Surface Owner</th>
<th>Water Well within 200 feet</th>
<th>Building within 200 feet</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
1. PROJECT INFORMATION

Project Name: James City Injection Well 38282
Date of Review: 5/21/2019 02:08:27 PM
Project Category: Waste Transfer, Treatment, and Disposal, Liquid waste/Effluent, Other
Project Area: 39.63 acres
County(s): Elk
Township/Municipality(s): HIGHLAND
ZIP Code: 16734
Quadrangle Name(s): JAMES CITY
Watersheds HUC 8: Middle Allegheny-Tionesta
Watersheds HUC 12: East Branch Tionesta Creek; South Branch Tionesta Creek-Tionesta Creek
Decimal Degrees: 41.617412, -78.820283
Degrees Minutes Seconds: 41° 37' 2.6845" N, 78° 49' 13.202" W

2. SEARCH RESULTS

<table>
<thead>
<tr>
<th>Agency</th>
<th>Results</th>
<th>Response</th>
</tr>
</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>No Known Impact</td>
<td>No Further Review Required</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 no known impacts to threatened and endangered species and/or special concern species and resources within the project area. Therefore, based on the information you provided, no further coordination is required with the jurisdictional agencies. This response does not reflect potential agency concerns regarding impacts to other ecological resources, such as wetlands.
James City Injection Well 38282
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 two years (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:
No Impact is anticipated to threatened and endangered species and/or special concern species and resources.

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.

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. Two review options are available to permit applicants for handling PNDI coordination in conjunction with DEP’s permit review process involving either T&E Species or species of special concern. Under sequential review, the permit applicant performs a PNDI screening and completes all coordination with the appropriate jurisdictional agencies prior to submitting the permit application. The applicant will include with its application, both a PNDI receipt and/or a clearance letter from the jurisdictional agency if the PNDI Receipt shows a Potential Impact to a species or the applicant chooses to obtain letters directly from the jurisdictional agencies. Under concurrent review, DEP, where feasible, will allow technical review of the permit to occur concurrently with the T&E species consultation with the jurisdictional agency. The applicant must still supply a copy of the PNDI Receipt with its permit application. The PNDI Receipt should also be submitted to the appropriate agency according to directions on the PNDI Receipt. The applicant and the jurisdictional agency will work together to resolve the potential impact(s). See the DEP PNDI policy at https://conservationexplorer.dcnr.pa.gov/content/resources.
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/agencies 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
Email: RA-HeritageReview@pa.gov

PA Fish and Boat Commission
Division of Environmental Services
595 E. Rolling Ridge Dr., Bellefonte, PA 16823
Email: RA-FBPCENOTIFY@pa.gov

U.S. Fish and Wildlife Service
Pennsylvania Field Office
Endangered Species Section
110 Radnor Rd; Suite 101
State College, PA 16801
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
Email: RA-PGC_PNDI@pa.gov
NO Faxes Please

7. PROJECT CONTACT INFORMATION

Name: GREG KIMMER
Company/Business Name: SENECA RESOURCES COMPANY, LLC
Address: 51 ZEUS BLVD
City, State, Zip: BROOKVILLE, PA 15825
Phone: (814) 849-4555 Fax: (814) 849-4595
Email: Kimmel@Srec.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/proponent signature

5/21/19 date
Well # 38282 Non-coal Justification

No Minable Coal within 1000 feet of Proposed Well

Top Hole Well 38282
41.612604
-78.822049

Map By: MN 5/02/2019

Distribution of Pennsylvania Coals
- Low-Volatile Bituminous
- High-Volatile Bituminous
- Semi-Anthracite
- Anthracite

Underground Mining Permit
Coal Mining Openness
Seneca #38282 Non-Coal Justification

- Well #38282 is not in or within 1,000 ft. of a current Coal Mining Activity Permit.
- This well and others previously permitted by Seneca in the vicinity were permitted as non-coal.
- Coal was not identified when this well was drilled in 2007.