Friday, January 05, 2018
WELL WORK PERMIT
Horizontal 6A / New Drill

CNX GAS COMPANY LLC
POST OFFICE BOX 1248
JANE F.E.W., WV 26378-6506

Re: Permit approval for MAJ6EHSUT
47-051-01938-00-00

This well work permit is evidence of permission granted to perform the specified well work at the location described on the attached pages and located on the attached plat, subject to the provisions of Chapter 22 of the West Virginia Code of 1931, as amended, and all rules and regulations promulgated thereunder, and to any additional specific conditions and provisions outlined in the pages attached hereto. Notification shall be given by the operator to the Oil and Gas Inspector at least 24 hours prior to the construction of roads, locations, and/or pits for any permitted work. In addition, the well operator shall notify the same inspector 24 hours before any actual well work is commenced and prior to running and cementing casing. Spills or emergency discharges must be promptly reported by the operator to 1-800-642-3074 and to the Oil and Gas Inspector.

Please be advised that form WR-35, Well Operators Report of Well Work is to be submitted to this office within 90 days of completion of permitted well work, as should form WR-34 Discharge Monitoring Report within 30 days of discharge of pits, if applicable. Failure to abide by all statutory and regulatory provisions governing all duties and operations hereunder may result in suspension or revocation of this permit and, in addition, may result in civil and/or criminal penalties being imposed upon the operators.

Per 35 CSR 4-5.2.g this permit will expire in two (2) years from the issue date unless permitted well work is commenced. If there are any questions, please feel free to contact me at (304) 926-0450.

James A. Martin
Chief

Operator’s Well Number: MAJ6EHSUT
Farm Name: CNX LAND, LLC
U.S. WELL NUMBER: 47-051-01938-00-00
Horizontal 6A / New Drill
Date Issued: 1/5/2018

Promoting a healthy environment.
PERMIT CONDITIONS

West Virginia Code § 22-6A-8(d) allows the Office of Oil and Gas to place specific conditions upon this permit. Permit conditions have the same effect as law. Failure to adhere to the specified permit conditions may result in enforcement action.

CONDITIONS

1. This proposed activity may require permit coverage from the United States Army Corps of Engineers (USACE). Through this permit, you are hereby being advised to consult with USACE regarding this proposed activity.

2. If the operator encounters an unanticipated void, or an anticipated void at an unanticipated depth, the operator shall notify the inspector within 24 hours. Modifications to the casing program may be necessary to comply with W. Va. Code § 22-6A-5a (12), which requires drilling to a minimum depth of thirty feet below the bottom of the void, and installing a minimum of twenty (20) feet of casing. Under no circumstance should the operator drill more than one hundred (100) feet below the bottom of the void or install less than twenty (20) feet of casing below the bottom of the void.

3. When compacting fills, each lift before compaction shall not be more than 12 inches in height, and the moisture content of the fill material shall be within limits as determined by the Standard Proctor Density test of the actual soils used in specific engineered fill, ASTM D698, Standard Test Method for Laboratory Compaction Characteristics of Soil Using Standard Effort, to achieve 95% compaction of the optimum density. Each lift shall be tested for compaction, with a minimum of two tests per lift per acre of fill. All test results shall be maintained on site and available for review.

4. Operator shall install signage per § 22-6A-8g (6) (B) at all source water locations included in their approved water management plan within 24 hours of water management plan activation.

5. Oil and gas water supply wells will be registered with the Office of Oil and Gas and all such wells will be constructed and plugged in accordance with the standards of the Bureau for Public Health set forth in its Legislative rule entitled Water Well Regulations, 64 C.S.R. 19. Operator is to contact the Bureau of Public Health regarding permit requirements. In lieu of plugging, the operator may transfer the well to the surface owner upon agreement of the parties. All drinking water wells within fifteen hundred feet of the water supply well shall be flow tested by the operator upon request of the drinking well owner prior to operating the water supply well.

6. Pursuant to the requirements pertaining to the sampling of domestic water supply wells/springs the operator shall, no later than thirty (30) days after receipt of analytical data provide a written copy to the Chief and any of the users who may have requested such analyses.

7. 24 hours prior to the initiation of the completion process the operator shall notify the Chief or his designee.

8. During the completion process the operator shall monitor annular pressures and report any anomaly noticed to the chief or his designee immediately.

9. If any explosion or other accident causing loss of life or serious personal injury occurs in or about a well or well work on a well, the well operator or its contractor shall give notice, stating the particulars of the explosion or accident, to the oil and gas inspector and the Chief, within 24 hours of said accident.

10. During the casing and cementing process, in the event cement does not return to the surface, the oil and gas inspector shall be notified within 24 hours.
PERMIT CONDITIONS

11. The operator shall provide to the Office of Oil and Gas the dates of each of the following within 30 days of their occurrence: completion of construction of the well pad, commencement of drilling, cessation of drilling, completion of any other permitted well work, and completion of the well. Such notice shall be provided by sending an email to DEPOOGNotify@wv.gov.
November 7, 2017

Department of Environmental Protection
Office of Oil and Gas
Charleston, WV 25304

RE: Application for Deep Well Permit – API #47-051-01938

COMPANY: CNX Gas Company, LLC

FARM: MAJ6EHSUT

COUNTY: Marshall DISTRICT: Webster QUAD: Majorsville

The deep well review of the application for the above company is Approved to drill to Trenton for Point Pleasant completion.

The applicant has complied with the provision of Chapter 22C-9, of the Code of West Virginia, nineteen hundred and thirty-one (1931), as amended, Oil and Gas Conservation Commission as follows:

1. Comments to Notice of Deviation filed? Yes – withdrawn on November 2, 2017

2. Provided a certified copy of duly acknowledged and recorded consent and easement form from all surface owners? yes

3. Provided a tabulation of all deep wells within one mile of the proposed location, including the API number of all deep wells: none

4. Provided a plat showing that the proposed location is a distance of 400+ feet from the nearest lease line or unit boundary and showing the following wells drilled to or capable of producing from the objective formation within 3,000 feet of the proposed location.

Sincerely,

Susan Rose
Administrator

Promoting a healthy environment.
STATE OF WEST VIRGINIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS
WELL WORK PERMIT APPLICATION

1) Well Operator: CNX Gas Company, LLC 4944658046 Marshall Webster Majorsville
Operator ID County District Quadrangle

2) Operator’s Well Number: MAJ6EHSUT Well Pad Name: MAJ6HSUT

3) Farm Name/Surface Owner: Majorsville Public Road Access: Lone Oak Road

4) Elevation, current ground: 1,370.14 Elevation, proposed post-construction: 1,345.4

5) Well Type (a) Gas X Oil Underground Storage 
Other
(b) If Gas Shallow Deep X 
Horizontal

6) Existing Pad: Yes or No NO

7) Proposed Target Formation(s), Depth(s), Anticipated Thickness and Expected Pressure(s):
POINT PLEASANT, 11,952' TVDGL, 78', 10,757/psi (0.9 psi/ft. pressure gradient)

8) Proposed Total Vertical Depth: 12,220' (at pilot hole/Trenton), 11,952' (at producing formation/Point Pleasant)

9) Formation at Total Vertical Depth: PILOT-TRENTON, PRODUCING-POINT PLEASANT

10) Proposed Total Measured Depth: 18,600'

11) Proposed Horizontal Leg Length: 7,000'

12) Approximate Fresh Water Strata Depths: 378'

13) Method to Determine Fresh Water Depths: 2,500' RADIUS SEARCH

14) Approximate Saltwater Depths: N/A

15) Approximate Coal Seam Depths: 772' (PITTSBURGH)

16) Approximate Depth to Possible Void (coal mine, karst, other): 769'

17) Does Proposed well location contain coal seams directly overlying or adjacent to an active mine? Yes X No

(a) If Yes, provide Mine Info: Name:
Depth:
Seam:
Owner:

RECEIVED
Office of Oil and Gas

DEC 07 2017

WV Department of Environmental Protection
### CASING AND TUBING PROGRAM

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<th>INTERVALS: Left in Well (ft)</th>
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**Office of Oil and Gas**

**DEC 07 2017**

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19) Describe proposed well work, including the drilling and plugging back of any pilot hole:

The well will be drilled to a depth of 12,220ft for the pilot hole. After setting the deep intermediate casing string, the well will be drilled to the top of the Utica formation where coring tools will be rigged up. Full core will be obtained through the Utica and Point Pleasant formations. A quad-combo log suite, litho-scanner, sonic scanner and image log will then be run through the open hole after the core is extracted from TD back to the deep intermediate casing point. The well will then be plugged back to a kick-off point necessary to land the horizontal portion of the well in the target/producing formation, the Point Pleasant, at a TVD of 11,952ft prior to running production casing and drilling to TMD.

20) Describe fracturing/stimulating methods in detail, including anticipated max pressure and max rate:

The stimulation will be multiple stages divided over the lateral length of the well. Stage spacing is dependent upon engineering design. Slickwater fracturing technique will be utilized on each stage using sand, water, and chemicals.
Max Pressure - 14,500 psi. Max Rate - 100 bbl/min.

21) Total Area to be disturbed, including roads, stockpile area, pits, etc., (acres): 13.0

22) Area to be disturbed for well pad only, less access road (acres): 5.4

23) Describe centralizer placement for each casing string:

Centralizers will be placed in each string to optimize stand off efficiency. Surface strings will not have centralizers placed within 80' of surface in the event of a grout job to get cement to surface. Typical procedure of 1:3 through vertical hole, and 1:1 through the curve/lateral will be followed. Conductor will not have any centralizers run.

24) Describe all cement additives associated with each cement type:

See attached cement additives list.

25) Proposed borehole conditioning procedures:

Conductor- The hole is auger drilled w/ air and casing ran in air hole.
Surface- The hole is drilled w/ air and casing ran in air hole. Fresh water will be circulated prior to cementing.
Intermediate 1-The hole is drilled w/ air and casing is ran in air hole. Soap will be ran to help transport cuttings.
Intermediate 2- The hole is drilled w/ air and casing is ran in a brine filled hole.
Production- The hole will be drilled on synthetic based fluid, conditioned well bore at TD, run casing in SOBM filled hole.

*Note: Attach additional sheets as needed.
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*Supersedure Sheet 001*
CONSOL Energy cement additives as of 12/29/16

Conductor:
  - 2% CaCl2

Surface:

Stage 1 Lead 1 Class A
Base Slurry Class A Cement
  1.5% BWOC Calcium Chloride

Intermediate 1:

Lead 1 Class A
Base Slurry Class A Cement
  1% BWOC Calcium Chloride
  0.4 lb/sk Gas Block
  0.4 lb/sk Powdered Defoamer
  0.25 lb/sk Flo-Seal (Polyflake LCM)

Intermediate 2:

Tail 1 Class H
Base Slurry Class H
  0.3% BWOC Fluid Loss Latex
  0.4% BWOC Powdered Defoamer
  0.2% BWOC Suspension Agent - High Temp
  0.2% BWOC Low Temp Retarder
Lead 1 75:25 Type III:Poz blend
Base Slurry 75:25 Type III:Poz blend
12% BWOW Sodium Chloride
0.25% BWOC Suspension Agent - High Temp
0.4% BWOC Powdered Defoamer
0.2% BWOC Low Temp Retarder
5 lb/pt Silica Fume Alternative
0.5% BWOC Fluid Loss - Light Weight

Production:

Lead 1 50:50 Class H:Poz blend
Base Slurry 50:50 Class H:Poz blend
0.2% BWOC Gas Block
0.25% BWOC Low Temp Retarder
0.5% BWOC Premium Gel
0.7% BWOC Powdered Defoamer
0.05% BWOC Suspension Agent - High Temp
Purpose:

The purpose of this hydraulic monitoring plan is to identify and notify any potentially affected conventional well operators near planned CNX hydraulic fracturing activity.

CNX has evaluated the existing geologic conditions in the area, and the potential for communication between the geologic zone being stimulated by CNX and the zone being produced by the conventional wells exists.

This plan is being implemented as an additional safety measure to be utilized in conjunction with the existing best management practices and the site safety/emergency response plans included for the site.

1. Communications with Conventional Well Operators

CNX has identified all known conventional wells and well operators within five hundred feet (500') of this pad and lateral sections pursuant to WV Code 35 CSR 8(5.11). A list and map of these wells and operators is provided as Attachment A.

Upon approval of this plan, CNX will notify operators identified in the referenced attachment, via letter, of the anticipated fracturing schedule associated with this pad. A copy of this letter is included as Attachment B, and includes the recommended steps a conventional operator can take to ensure safe and compliant operations.

2. Reporting

CNX will provide information relating to the hydraulic fracturing schedule, any communication with conventional operators, and ongoing monitoring of the work upon request of the OOG or immediately in the event of any discovered abnormalities that create additional risk or concern.
Attachment A:

Map and List of Conventional Operators in the MAJ6 Project Area
<table>
<thead>
<tr>
<th>API</th>
<th>Operator</th>
<th>Well Number</th>
<th>TD</th>
<th>Producing</th>
<th>Formation at TD</th>
<th>Permit Date</th>
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**RECEIVED**
Office of Oil and Gas
MAY 1 2 2017
WV Department of Environmental Protection
Attachment B:

Conventional Operator Notice Letter – Example
May 2, 2017

Re: Marshall County Hydraulic Fracturing Notice

Dear Sir or Madam,

CNX Gas Company, LLC (CNX) has developed a Utica well pad “MAJ6HSUT” located in Marshall County, West Virginia. Through CNX’s evaluation pursuant to WV Code 35 CSR 8(5.11), you have been identified as the owner or operator of a well within a 500’ radius of the surface location or lateral section of the wellbore. Due to the apparent presence of unique geological conditions, communication between CNX hydraulic fracturing operations and the identified well is a possibility. As an owner or operator of a conventional natural gas well in this area, we are requesting your assistance in monitoring for changes that would indicate communication between your well(s) and our planned operation.

CNX anticipates conducting hydraulic fracturing activity at the MAJ6HSUT pad during [timeframe]. Plats for each well to be hydraulically fractured on this pad are attached.

We recommend that conventional operators conduct the following activities before, during, and after fracturing operations.

1. Inspect surface equipment prior to fracturing, to establish integrity and confirm well conditions.
2. Observe wells during and after fracturing and monitor for abnormal increases in water, gas, or pressure.
3. Inspect and upgrade master valves or other necessary equipment for wellhead integrity as you see fit.
4. Notify the OOG and CNX if any changes in water, gas production, pressure, or other conditions that cause abnormal risk or concern.

Please feel free to contact CNX’s Production Control Room at 724-485-4040 (staffed 24/7) with any questions or comments. You may also contact the West Virginia Office of Oil and Gas at 304-926-0499.

Sincerely,

*CNX Production*
STATE OF WEST VIRGINIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION
OFFICE OF OIL AND GAS

FLUIDS/ CUTTINGS DISPOSAL & RECLAMATION PLAN

Operator Name: CNX Gas Company, LLC
Watershed (HUC 10), Wheeling Creek

Do you anticipate using more than 5,000 bbls of water to complete the proposed well work? Yes ☑ No ___

Will a pit be used? Yes ___ No ☑

If so, please describe anticipated pit waste:

Proposed Disposal Method For Treated Pit Wastes:

- Underground Injection (UIC Permit Number)
- Reuse (at API Number) May 1, 2017
- Off Site Disposal (Supply form WW-9 for disposal location)
- Other (Explain)

Will closed loop system be used? Yes ___ No ___

Drilling medium anticipated for this well (vertical and horizontal)? Air, freshwater, oil based, etc.
- If oil based, what type? Synthetic, petroleum, etc. Synthetic

Additives to be used in drilling medium? Bactericides, Polymers, and Weighting Agents

Drill cuttings disposal method? Land Application (Land application of all cuttings while drilling on site & Landfill)
- If left in pit and plan to solidify what medium will be used? (cement, lime, sawdust) N/A
- Landfill or onsite name/permit number? Waste Management facilities

Permittee shall provide written notice to the Office of Oil and Gas of any load of drill cuttings or associated waste rejected at any West Virginia solid waste facility. The notice shall be provided within 24 hours of rejection and the permittee shall also disclose where it was properly disposed.

I certify that I understand and agree to the terms and conditions of the GENERAL WATER POLLUTION PERMIT issued on August 1, 2005, by the Office of Oil and Gas of the West Virginia Department of Environmental Protection. I understand that the provisions of the permit are enforceable by law. Violations of any term or condition of the general permit and/or other applicable law or regulation can lead to enforcement action.

I certify under penalty of law that I have personally examined and am familiar with the information submitted on this application form and all attachments thereto and that, based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the information is true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine or imprisonment.

Company Official Signature: Erika Whetsone
Company Official (Typed Name): Erika Whetsone
Company Official Title: Supervisor - Gas Permitting North

Subscribed and sworn before me this 9th day of May, 2017
Lori L. Walker, Notary Public
My commission expires February 23, 2019
CNX Gas Company, LLC

Proposed Revegetation Treatment: Acres Disturbed 13.0 Prevegetation pH 6.5

Lime according to pH test Tons/acre or to correct to pH 7.0

Fertilizer type 10-20-20

Fertilizer amount 500 lbs/acre

Mulch hay or straw @ 2 Tons/acre

Seed Mixtures

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<th>Seed Type</th>
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<tr>
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<td>10 lbs/acre</td>
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Attach:
Maps(s) of road, location, pit and proposed area for land application (unless engineered plans including this info have been provided). If water from the pit will be land applied, include dimensions (L x W x D) of the pit, and dimensions (L x W), and area in acreage, of the land application area.

Photocopied section of involved 7.5' topographic sheet.

Plan Approved by: [Signature]

Comments: **Approval of use of 10K BOPs specified in Site Safety Plan is approved only upon review by Office of Oil & Gas at Charleston, WV. I would prefer use of 15K BOP stack since no other Utica wells have been drilled in the immediate area.**

RECEIVED
Office of Oil and Gas
MAY 12, 2017

WV Department of Environmental Protection

Title: Oil & Gas Inspector Date: 05/08/2017

Field Reviewed? (______) Yes (______) No
CNX Gas Company, LLC

Proposed Revegetation Treatment: Acres Disturbed 13.0 Prevegetation pH 6.5

Lime according to pH test Tons/acre or to correct to pH 7.0

Fertilizer type 10-20-20

Fertilizer amount 500 lbs/acre

Mulch hay or straw @ 2 Tons/acre

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<td>15</td>
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Photocopied section of involved 7.5' topographic sheet.

Plan Approved by: Jim Nelson

Comments: **Approval of use of 10K BOPs specified in Site Safety Plan is approved only upon review by Office of Oil & Gas at Charleston, WV. I would prefer use of 15K BOP stack since no other Utica wells have been drilled in the immediate area.**

Title: Oil & Gas Inspector

Date: 05/08/2017

Field Reviewed? (X) Yes ( ) No
Site Safety Plan for Well MAJ6EHSUT
CNX Gas Company, LLC.
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<td>15-5/14</td>
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<td>3 ALBERT J. PAZEWSDK, JR., ET UX</td>
<td>ALBERT J. PAZEWSDK, JR., ET UX</td>
<td>15-5/17</td>
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<tr>
<td>4 ALBERT J. JR. AND VICKI J. PAZEWSDK</td>
<td>ALBERT J. PAZEWSDK, JR., ET UX</td>
<td>15-5/40</td>
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<td>5 CONX LAND, LLC</td>
<td>CONSOL PENNSYLVANIA COAL COMPANY LLC</td>
<td>15-5/72</td>
</tr>
<tr>
<td>6 RANDALL S. SCHMIDT</td>
<td>MARTHA K. MILL ET AL</td>
<td>15-5/41</td>
</tr>
<tr>
<td>7 NOGAR D. MUECKRICK ET AL</td>
<td>AMP FUND U, LP ET AL</td>
<td>15-5/71</td>
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<td>9 MICHAEL S. NOGAR</td>
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**SPACING ( dominant )**
- UTM 17 - NAD83 (W)
  - N4420904.10' E2365374.79'
  - N0383322.27' L1744482.941
  - LAT/NS = N0380027
  - LON 80°32'54.6850''

**SPACING ( dominant )**
- UTM 17 - NAD83 (M)
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  - N0383301.39' L1744486.333
  - LAT/NS = N0380020
  - LON 80°32'53.103''

**SPACING ( minor )**
- UTM 17 - NAD83 (M)
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INFORMATION SUPPLIED UNDER WEST VIRGINIA CODE
Chapter 22, Article 6A, Section 5(a)(5)
IN LIEU OF FILING LEASE(S) AND OTHER CONTINUING CONTRACT(S)

Under the oath required to make the verification on page 1 of this Notice and Application, I depose and say that I am the person who signed the Notice and Application for the Applicant, and that –

(1) the tract of land is the same tract described in this Application, partly or wholly depicted in the accompanying plat, and described in the Construction and Reclamation Plan;

(2) the parties and recordation data (if recorded) for lease(s) or other continuing contract(s) by which the Applicant claims the right to extract, produce or market the oil or gas are as follows:

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<tr>
<th>Lease Name or Number</th>
<th>Grantor, Lessor, etc.</th>
<th>Grantee, Lessee, etc.</th>
<th>Royalty</th>
<th>Book/Page</th>
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See attached

Acknowledgement of Possible Permitting/Approval
In Addition to the Office of Oil and Gas

The permit applicant for the proposed well work addressed in this application hereby acknowledges the possibility of the need for permits and/or approvals from local, state, or federal entities in addition to the DEP, Office of Oil and Gas, including but not limited to the following:

- WV Division of Water and Waste Management
- WV Division of Natural Resources WV Division of Highways
- U.S. Army Corps of Engineers
- U.S. Fish and Wildlife Service
- County Floodplain Coordinator

The applicant further acknowledges that any Office of Oil and Gas permit in no way overrides, replaces, or nullifies the need for other permits/approvals that may be necessary and further affirms that all needed permits/approvals should be acquired from the appropriate authority before the affected activity is initiated.

Well Operator: CNX Gas Company, LLC
By: Erika Whealstone
Its: Permitting Manager
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<td>Sublease</td>
<td>685/131; Rerecorded 693/414</td>
</tr>
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<td>782/144; recorded MAB 21/477</td>
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<td>782/144; recorded MAB 21/477</td>
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**Notes:**
- **31-01938**
- **5/12/2014**
- **Page 2 of 3**
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5 & 6 (Dissolved)

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<td>Ross Energy, Inc.</td>
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<td>One Mile Resources LLC</td>
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<td>TTV Exploration</td>
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<td>West Virginia and Charles D. Hill</td>
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<td>TTV Exploration</td>
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14/14/11/13 (For Years)

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<td>Margaret Moran</td>
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<td>Consol Pennsylvania Coal Company</td>
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Office of Oil and Gas

DEC 21 2017

51-01938
MEMORANDUM OF OPERATING AGREEMENT – MAjHSU

STATE AND COUNTY: West Virginia, County of Marshall

OPERATOR: CNX Gas Company LLC
1000 Consol Energy Drive
Canonsburg, PA 15317

NON-OPERATOR: HG Energy II Appalachia, LLC
5260 Dupont Road
Parkersburg, WV 26101

EFFECTIVE DATE: December 1, 2017

Operator and Non-Operator(s) named above (individually, a "Party", and collectively, the "Parties"), have entered into this Joint Operating Agreement (the "Agreement") dated as of the Effective Date stated above, covering the lands, leases, interests, and depth(s) (the "Contract Area") all identified in Exhibit "A, A-1 and A-2" to this Memorandum.

Operator and Non-Operator represent that the officers executing this Memorandum and such Agreement have the requisite corporate authority to act by and on behalf of the Parties, and further that each owns or represents the Working Interest (the "Interest") in the Contract area set opposite their respective names:

<table>
<thead>
<tr>
<th>NAME OF PARTY</th>
<th>WORKING INTEREST</th>
</tr>
</thead>
<tbody>
<tr>
<td>CNX Gas Company LLC</td>
<td>88.4602%</td>
</tr>
<tr>
<td>HG Energy II Appalachia, LLC</td>
<td>11.5398%</td>
</tr>
</tbody>
</table>

Article VII.B. of the Agreement entitled "Lien and Payment Defaults", provides for the creation and attachment of a lien for default in payment of sums due under the terms of the Agreement. The Parties desire the right to file and perfect such a lien, and, in order to enable each Party to do so, the terms of the Agreement are incorporated into this Memorandum for all purposes. A complete copy of the Agreement is maintained at the Offices of the Operator and each Non-Operator.

This Memorandum is placed of record for the purpose of placing all persons on notice of the existence of the Agreement. The Agreement shall be deemed to be binding on Operator and Non-Operator and their respective successors and assigns, and in full force and effect until modified, or the Leases on the Contract Area expire. All modifications may be evidenced by an amendment to this Memorandum being placed of record.

This Memorandum is signed by Operator and Non-Operator as of the date of the acknowledgment of each party’s signatures below, but is deemed effective for all purposes as of the Effective Date set out above.

(Signature pages to follow, remainder of this page left intentionally blank)

OPERATOR: CNX Gas Company LLC

By: Alexander J. Reyes
Printed Name: Alexander J. Reyes
Title: Vice President

NON-OPERATOR(S): HG ENERGY II APPALACHIA, LLC

By: 
Printed Name: Jarod Hall
Title: President

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DECEMBER 1, 2017

WV Department of Environmental Protection
STATE: WEST VIRGINIA

COUNTY: WOOD

On this, the 30th day of December, 2017, before me, the undersigned, a Notary Public in and for said State, personally appeared Jared Hall, personally known to me or proved to me on the basis of satisfactory evidence to be the individual whose name is subscribed to the within instrument and acknowledged to me that he/she executed the same in his/her capacity and that by his/her signature on the instrument, he/she executed same on behalf of HG Energy II Appalachia, LLC.

In witness whereof, I hereunto set my hand and official seal.

MY COMMISSION EXPIRES: 11/1/2021

[Signature]

[Seal]

NOTARY PUBLIC

STATE:__________________________

COUNTY:________________________

On this, the __________ day of ____________________, 20__, before me, the undersigned, a Notary Public in and for said State, personally appeared ____________________________ , personally known to me or proved to me on the basis of satisfactory evidence to be the individual whose name is subscribed to the within instrument and acknowledged to me that he/she executed the same in his/her capacity and that by his/her signature on the instrument, he/she executed same on behalf of ____________________________ .

In witness whereof, I hereunto set my hand and official seal.

MY COMMISSION EXPIRES:

[Signature]

[Seal]

NOTARY PUBLIC

[Stamp: RECEIVED Office of Oil and Gas]

DEC 21 2017

[Stamp: WV Department of Environmental Protection]
Exhibit "A"

Attached to and made a part of that certain Operating Agreement dated December 1, 2017, between CNX Gas Company LLC, as Operator and HG Energy II Appalachia, LLC, as Non-Operator

1. Description of Lands Subject to this Agreement:

Those certain oil and gas leases and/or oil and gas interests located within the Contract Area (MAJ 6 Utica Shale Unit) that is shown on the unit plat attached hereto as Exhibit "A-1".

2. Restrictions, if any as to Depths, Formations, and Substances:

INSOFAR AND ONLY INSOFAR as the Leases cover from the base of the Queenston shale (as seen by the September 5, 2006 Schlumberger GR/LDT/CNL Platform Express electric log from Fortuna Energy, Inc's Starvaggi #1 well (API 037-125-22278) located in Hanover Township, Washington County, Pennsylvania, at a depth of 10,530 ft K.B. to the top of the Trenton limestone (as seen by the same well, at a depth of 10,856 ft K.B).

3. Parties to Agreement

HG Energy II Appalachia, LLC
5290 Dupont Road
Parkersburg, West Virginia 26101

CNX Gas Company, LLC
1000 CONSOL Energy Drive
Canonsburg, PA 15317

4. Percentages or Fractional Interests of Parties to this Agreement:

<table>
<thead>
<tr>
<th>Parties</th>
<th>Working Interest Initial</th>
</tr>
</thead>
<tbody>
<tr>
<td>HG Energy II Appalachia, LLC</td>
<td>11.5398%</td>
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<tr>
<td>CNX Gas Company, LLC</td>
<td>88.4602%</td>
</tr>
<tr>
<td>Total</td>
<td>100.0000%</td>
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</table>

5. Oil and Gas Leases and/or Oil and Gas Interests Subject to this Agreement:

The oil and gas leases or oil and gas interests, or portions thereof, listed on Exhibit "A-Z" attached hereto.
Exhibit A-1

Limits of MAJ6HSU Unit Boundary
"CONTRACT AREA"

Limits of MAJ6HSU Unit Boundary
"CONTRACT AREA"

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DEC 21, 2017

WV Department of Environmental Protection

MAJ6HSU Unit Boundary:
"CONTRACT AREA" = 918.818 Acres

Tracts with HG Interest
### Exhibit "A-2"

Attached to and made a part of that certain Operating Agreement dated December 1, 2017, between CNX Gas Company LLC, as Operator, and HG Energy II Appalachia, LLC, as Non-operator

<table>
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<tr>
<th>Tract ID</th>
<th>Tax Map Parcel Number</th>
<th>Lessee</th>
<th>Leasee</th>
<th>Lease Date</th>
<th>Recording Date</th>
<th>Leased Acres</th>
<th>Unit Acres</th>
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</thead>
<tbody>
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<td>p10 15-4-13</td>
<td>Homer &amp; Del Harder</td>
<td>Manufactures Light and Heat Company</td>
<td>1/9/1967</td>
<td>342/633</td>
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<td>2</td>
<td>p10 15-4-14</td>
<td>Mark Stevens</td>
<td>Manufactures Light and Heat Company</td>
<td>1/1/1989</td>
<td>325/511</td>
<td>1 %</td>
<td>0.550</td>
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<td>3</td>
<td>p10 15-5-37 15-5-19</td>
<td>Thomas J. Roper</td>
<td>Columbia Gas Transmission Corporation</td>
<td>3/30/1996</td>
<td>12/2/679</td>
<td>1 %</td>
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<td>p10 15-4-41 15-4-41.1</td>
<td>Martha Kay Hill and Charles D. Hill</td>
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<td>6</td>
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<td>Transco Exploration, LLC</td>
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<td>12</td>
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<td>Cecilia Hartney and Beth Riddle</td>
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<td>13</td>
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<td>Robert W. Riddle and Donna S. Riddle</td>
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<td>David E. Millilson and Mary Lynn Millilson et al</td>
<td>Noble Energy, Inc</td>
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<td>T.M. Crew and Elizabeth V. Crew</td>
<td>L.B. Bawdy</td>
<td>7/10/1960</td>
<td>745/909</td>
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<td>Michael S. Riddle</td>
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</table>

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| 21 | pbo 15-11-9 | David L. Kemmy and Raymond R. Kemmy | CNX Gas Company LLC | 9/20/2009 | 820,649 | 9% | 1,806 |
| 22A | pbo 15-5-36 | Mt. Hope Cemetery Association | CNX Gas Company LLC | 5/12/2011 | 764,445 | 9% | 0.43 |
| 22B | pbo 15-5-36 | Virginia M. Erlenbush Parsons and Lawrence F. Parsons | Noble Energy, Inc. | 6/3/2013 | 866,451 | 9% | 0.627 |
| 23 | 15-5-07-1 | Mt. Hope Cemetery Assoc. | CNX Gas Company LLC | 12/6/2011 | 764,236 | 9% | 0.355 |
| 24 | pbo 15-4-14 | Elizabeth McEnery and Thomas L. Schlicker | CNX Gas Company LLC | 8/11/2009 | 766,467 | 9% |
| 25 | pbo 15-4-14 | Jack L. Frey | CNX Gas Company LLC | 11/24/2009 | 763,443 | 9% |
| 25 | pbo 15-4-14 | Richard C. Pence and Mary Lee Pence | CNX Gas Company LLC | 11/11/2009 | 701,266 | 9% | 6.597 |
| 25 | 15-4-14 | Scott Douglas Reed | CNX Gas Company LLC | 11/4/2009 | 701,269 | 9% |
| 25 | pbo 15-4-14 | Robert E. Elliott | CNX Gas Company LLC | 1/8/2010 | 701,320 | 9% |
| 25 | pbo 15-4-14 | Tien Sa Oil Company, LLC | CNX Gas Company LLC | 11/22/2017 | 701,250 | 9% |
| 26 | 15-4-14 | Jack A. Cain and Nancy C. Cain | Noble Energy, Inc. | 3/1/2013 | 794,255 | 9% |
| 26 | pbo 15-4-14 | Jack D. Tying | CNX Gas Company LLC | 11/24/2009 | 761,263 | 9% |
| 26 | pbo 15-4-14 | Richard C. Pence and Mary Lee Pence | CNX Gas Company LLC | 11/11/2009 | 701,266 | 9% |
| 26 | pbo 15-4-14 | Scott Douglas Reed | CNX Gas Company LLC | 11/4/2009 | 701,269 | 9% |
| 26 | pbo 15-4-14 | Robert E. Elliott | CNX Gas Company LLC | 1/8/2010 | 701,320 | 9% |
| 26 | 15-4-14 | Elizabeth Ann Croll | Noble Energy, Inc. | 2/1/2012 | 701,255 | 9% |
| 26 | 15-4-14 | Jack A. Cain and Nancy C. Cain | Noble Energy, Inc. | 2/1/2012 | 794,255 | 9% |
| 27B | pbo 15-6-38 | Board of Education of Marshall County, WV | CNX Gas Company LLC | 12/20/2011 | 794,255 | 9% | 0.635 |
| 28 | 15-5-45 | Board of Education of Marshall County, WV | CNX Gas Company LLC | 12/20/2011 | 794,255 | 9% | 0.460 |
| 29 | 15-5-45 | Steve A. Milburn and Mary M. Milburn | Noble Energy, Inc. | 7/23/2013 | 901,352 | 9% | 2.323 |

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WV Department of Environmental Protection
STATE OF WEST VIRGINIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS
NOTICE CERTIFICATION

Date of Notice Certification: 5/11/19

API No. 47-051.01938
Operator's Well No. MAJES1HSUT
Well Pad Name: MAJES1HSUT

Notice has been given:
Pursuant to the provisions in West Virginia Code § 22-6A, the Operator has provided the required parties with the Notice Forms listed below for the tract of land as follows:
State: West Virginia
County: Marshall
District: Webster
Quadrangle: Majorsville
Watershed: Wheeling Creek

UTM NAD 83
Easting: 538574.78
Northing: 4420654.10
Public Road Access: Lone Oak Road
Generally used farm name: Majorsville

Pursuant to West Virginia Code § 22-6A-7(b), every permit application filed under this section shall be on a form as may be prescribed by the secretary, shall be verified and shall contain the following information: (14) A certification from the operator that (i) it has provided the owners of the surface described in subdivisions (1), (2) and (4), subsection (b), section ten of this article, the information required by subsections (b) and (c), section sixteen of this article; (ii) that the requirement was deemed satisfied as a result of giving the surface owner notice of entry to survey pursuant to subsection (a), section ten of this article six; or (iii) the notice requirements of subsection (b), section sixteen of this article were waived in writing by the surface owner; and Pursuant to West Virginia Code § 22-6A-11(b), the applicant shall tender proof of and certify to the secretary that the notice requirements of section ten of this article have been completed by the applicant.

Pursuant to West Virginia Code § 22-6A, the Operator has attached proof to this Notice Certification that the Operator has properly served the required parties with the following:

*PLEASE CHECK ALL THAT APPLY

☐ 1. NOTICE OF SEISMIC ACTIVITY or ☐ NOTICE NOT REQUIRED BECAUSE NO SEISMIC ACTIVITY WAS CONDUCTED

☐ 2. NOTICE OF ENTRY FOR PLAT SURVEY or ☐ NO PLAT SURVEY WAS CONDUCTED

☐ 3. NOTICE OF INTENT TO DRILL or ☐ NOTICE NOT REQUIRED BECAUSE NOTICE OF ENTRY FOR PLAT SURVEY WAS CONDUCTED or

☐ WRITTEN WAIVER BY SURFACE OWNER (PLEASE ATTACH)

☐ 4. NOTICE OF PLANNED OPERATION

☐ 5. PUBLIC NOTICE

☐ 6. NOTICE OF APPLICATION

Required Attachments:
The Operator shall attach to this Notice Certification Form all Notice Forms and Certifications of Notice that have been provided to the required parties and/or any associated written waivers. For the Public Notice, the operator shall attach a copy of the Class II Legal Advertisement with publication date verification or the associated Affidavit of Publication. The attached Notice Forms and Certifications of Notice shall serve as proof that the required parties have been noticed as required under West Virginia Code § 22-6A. Pursuant to West Virginia Code § 22-6A-11(b), the Certification of Notice to the person may be made by affidavit of personal service, the return receipt card or other postal receipt for certified mailing.
Certification of Notice is hereby given:

THEREFORE, I, Erika Whetstone, have read and understand the notice requirements within West Virginia Code § 22-6A. I certify that as required under West Virginia Code § 22-6A, I have served the attached copies of the Notice Forms, identified above, to the required parties through personal service, by registered mail or by any method of delivery that requires a receipt or signature confirmation. I certify under penalty of law that I have personally examined and am familiar with the information submitted in this Notice Certification and all attachments, and that based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the information is true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.

Well Operator: CNX Gas Company, LLC.  
By: Pete Nickel  
Its: Operations Manager  
Telephone: 724-495-4035  
Address: 1000 Consol Energy Drive  
Canonsburg, PA 15370  
Facsimile:  
Email: ErikaWhetstone@ConsolEnergy.com

[Notary Seal]

Subscribed and sworn before me this 11th day of May 2017.

[Signature]  
Notary Public

My Commission Expires February 23, 2019

Oil and Gas Privacy Notice:
The Office of Oil and Gas processes your personal information, such as name, address and telephone number, as part of our regulatory duties. Your personal information may be disclosed to other State agencies or third parties in the normal course of business or as needed to comply with statutory or regulatory requirements, including Freedom of Information Act requests. Our office will appropriately secure your personal information. If you have any questions about our use or your personal information, please contact DEP’s Chief Privacy Officer at depprivacyofficer@wv.gov.
STATE OF WEST VIRGINIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS
NOTICE OF APPLICATION

Notice Time Requirement: notice shall be provided no later than the filing date of permit application.

Date of Notice: 3/12/17  Date Permit Application Filed: 5/11/17
Notice of:

- [ ] PERMIT FOR ANY WELL WORK
- [ ] CERTIFICATE OF APPROVAL FOR THE CONSTRUCTION OF AN IMPOUNDMENT OR PIT
- [ ] PERSONAL SERVICE
- [ ] REGISTERED MAIL
- [ ] METHOD OF DELIVERY THAT REQUIRES A RECEIPT OR SIGNATURE CONFIRMATION

Delivery method pursuant to West Virginia Code § 22-6A-10(b)

Pursuant to W. Va. Code § 22-6A-10(b) no later than the filing date of the application, the applicant for a permit for any well work or for a certificate of approval for the construction of an impoundment or pit as required by this article shall deliver, by personal service or by registered mail or by any method of delivery that requires a receipt or signature confirmation, copies of the application, the erosion and sediment control plan required by section seven of this article, and the well plat to each of the following persons: (1) The owners of record of the surface of the tract on which the well is or is proposed to be located; (2) The owners of record of the surface tract or tracts overlying the oil and gas leasehold being developed by the proposed well work, if the surface tract is to be used for roads or other land disturbance as described in the erosion and sediment control plan submitted pursuant to subsection (c), section seven of this article; (3) The coal owner, operator or lessee, in the event the tract of land on which the well proposed to be drilled is located [sic] is known to be underlain by one or more coal seams; (4) The owners of record of the surface tract or tracts overlying the oil and gas leasehold being developed by the proposed well work, if the surface tract is to be used for the placement, construction, enlargement, alteration, repair, removal or abandonment of any impoundment or pit as described in section nine of this article; (5) Any surface owner or water purveyor who is known to the applicant to have a water well, spring or water supply source located within one thousand five hundred feet of the center of the well pad which is used to provide water for consumption by humans or domestic animals; and (6) The operator of any natural gas storage field within which the proposed well work activity is to take place.

Application Notice  WSSP Notice  E&S Plan Notice  Well Plat Notice

- [ ] SURFACE OWNER(s)
  Name: CNX Land, LLC
  Address: 1000 Consol Energy Drive
  Canonstown, PA 15317

- [ ] SURFACE OWNER(s) (Road and/or Other Disturbance)
  Name: Consol Mining Company, LLC
  Address: 1000 Consol Energy Drive
  Canonstown, PA 15317

- [ ] SURFACE OWNER(s) (Impoundments or Pits)
  Name: 
  Address: 

- [ ] COAL OWNER OR LESSEE
  Name: See attached list
  Address: 

- [ ] COAL OPERATOR
  Name: 
  Address: 

- [ ] SURFACE OWNER OF WATER WELL AND/OR WATER PURVEYOR(s)
  Name: See attached list
  Address: 

- [ ] OPERATOR OF ANY NATURAL GAS STORAGE FIELD
  Name: Columbia Gas Transmission LLC
  Address: 1720 MacGregor Avenue SE, Post Office Box 1273
  Charleston, WV 25323-1273

*Please attach additional forms if necessary

MAY 12 2017

WV Department of Environmental Protection
Notice is hereby given:
Pursuant to West Virginia Code § 22-6A-10(b), notice is hereby given that the undersigned well operator has applied for a permit for well work or for a certificate of approval for the construction of an impoundment or pit.

This Notice Shall Include:
Pursuant to W. Va. Code § 22-6A-10(b), this notice shall include: (1) copies of the application; (2) the erosion and sediment control plan required by section seven of this article; and (3) the well plat.

Pursuant to W. Va. Code § 22-6A-10(f), this notice shall include: (1) a statement of the time limits for filing written comments; (2) who may file written comments, (3) the name and address of the secretary for the purpose of filing the comments and obtaining additional information; and (4) a statement that the persons may request, at the time of submitting written comments, notice of the permit decision and a list of persons qualified to test water.

Pursuant to W. Va. Code R. § 35-8-5.7.a, the operator shall provide the Well Site Safety Plan to the surface owner and any water purveyor or surface owner subject to notice and water testing as provided in section 15 of this rule.

Pursuant to W. Va. Code R. § 35-8-15.2.c, this notice shall: (1) contain a statement of the surface owner’s and water purveyor’s right to request sampling and analysis; (2) advise the surface owner and water purveyor of the rebuttable presumption for contamination or deprivation of a fresh water source or supply; advise the surface owner and water purveyor that refusal to allow the operator to conduct a pre-drilling water well test constitutes a method to rebut the presumption of liability; (3) advise the surface owner and water purveyor of his or her independent right to sample and analyze any water supply at his or her own expense; advise the surface owner and water purveyor whether or not the operator will utilize an independent laboratory to analyze any sample; and (4) advise the surface owner and water purveyor how they can obtain from the Chief a list of water testing laboratories in the subject area capable of and qualified to test water supplies in accordance with standard acceptable methods.

Additional information related to horizontal drilling may be obtained from the Secretary, at the WV Department of Environmental Protection headquarters, located at 601 57th Street, SE, Charleston, WV 25304 (304-926-0450) or by visiting www.dep.wv.gov/oil-and-gas/pages/default.aspx.

Well Location Restrictions
Pursuant to W. Va. Code § 22-6A-12, Wells may not be drilled within two hundred fifty feet measured horizontally from any existing water well or developed spring used for human or domestic animal consumption. The center of well pads may not be located within six hundred twenty-five feet of an occupied dwelling structure, or a building two thousand five hundred square feet or larger used to house or shelter dairy cattle or poultry husbandry. This limitation is applicable to those wells, developed springs, dwellings or agricultural buildings that existed on the date a notice to the surface owner of planned entry for surveying or staking as provided in section ten of this article or a notice of intent to drill a horizontal well as provided in subsection (b), section sixteen of this article was provided, whichever occurs first, and to any dwelling under construction prior to that date. This limitation may be waived by written consent of the surface owner transmitted to the department and recorded in the real property records maintained by the clerk of the county commission for the county in which such property is located. Furthermore, the well operator may be granted a variance by the secretary from these distance restrictions upon submission of a plan which identifies the sufficient measures, facilities or practices to be employed during well site construction, drilling and operations. The variance, if granted, shall include terms and conditions the department requires to ensure the safety and protection of affected persons and property. The terms and conditions may include insurance, bonding and indemnification, as well as technical requirements. (b) No well pad may be prepared or well drilled within one hundred feet measured horizontally from any perennial stream, natural or artificial lake, pond or reservoir, or a wetland, or within three hundred feet of a naturally reproducing trout stream. No well pad may be located within one hundred feet of a surface or ground water intake of a public water supply. The distance from the public water supply as identified by the department shall be measured as follows: (1) For a surface water intake on a lake or reservoir, the distance shall be measured from the boundary of the lake or reservoir. (2) For a surface water intake on a flowing stream, the distance shall be measured from a semicircular radius extending upstream of the surface water intake. (3) For a groundwater source, the distance shall be measured from the wellhead or spring. The department may, in its discretion, waive these distance restrictions upon submission of a plan identifying sufficient measures, facilities or practices to be employed during well site construction, drilling and operations to protect the waters of the state. A waiver, if granted, shall impose any permit conditions as the secretary considers necessary. (c) Notwithstanding the foregoing provisions of this section, nothing contained in this section prevents an operator from conducting the activities permitted or authorized by a Clean Water Act Section 404 permit or other approval from the United States Army Corps of Engineers within any waters of the state or within the restricted areas referenced in this section. (d) The well location restrictions set forth in this section shall not apply to any well on a multiple well pad if at least one of the wells was permitted prior to the effective date of this article. (e) The secretary shall, by December 31, 2012, report to the Legislature on the noise, light, dust and volatile organic compounds generated by the drilling of horizontal wells as they relate to the well location restrictions regarding occupied dwelling structures pursuant to this section. Upon a finding, if any, by the secretary that the well location restrictions regarding occupied dwelling structures are inadequate or otherwise require alteration to address the items
examined in the study required by this subsection, the secretary shall have the authority to propose for promulgation legislative rules establishing guidelines and procedures regarding reasonable levels of noise, light, dust and volatile organic compounds relating to drilling horizontal wells, including reasonable means of mitigating such factors, if necessary.

Water Well Testing:
Pursuant to West Virginia Code § 22-6A-10(d), notification shall be made, with respect to surface landowners identified in subsection (b) or water purveyors identified in subdivision (5), subsection (b) of this section, of the opportunity for testing their water well. The operator shall provide an analysis to such surface landowner or water purveyor at their request.

Water Testing Laboratories:
Pursuant to West Virginia Code § 22-6A-10(i), persons entitled to notice pursuant to subsection (b) of this section may contact the department to ascertain the names and locations of water testing laboratories in the subject area capable and qualified to test water supplies in accordance with standard accepted methods. In compiling that list of names the department shall consult with the state Bureau for Public Health and local health departments. A surface owner and water purveyor has an independent right to sample and analyze any water supply at his or her own expense. The laboratory utilized by the operator shall be approved by the agency as being certified and capable of performing sample analyses in accordance with this section.

Rebuttable Presumption for Contamination or Deprivation of a Fresh Water Source or Supply:

W. Va. Code § 22-6A-18 requires that (b) unless rebutted by one of the defenses established in subsection (c) of this section, in any action for contamination or deprivation of a fresh water source or supply within one thousand five hundred feet of the center of the well pad for horizontal well, there is a rebuttable presumption that the drilling and the oil or gas well or either was the proximate cause of the contamination or deprivation of the fresh water source or supply. (c) In order to rebut the presumption of liability established in subsection (b) of this section, the operator must prove by a preponderance of the evidence one of the following defenses: (1) The pollution existed prior to the drilling or alteration activity as determined by a predrilling or prealteration water well test. (2) The landowner or water purveyor refused to allow the operator access to the property to conduct a predrilling or prealteration water well test. (3) The water supply is not within one thousand five hundred feet of the well. (4) The pollution occurred more than six months after completion of drilling or alteration activities. (5) The pollution occurred as the result of some cause other than the drilling or alteration activity. (d) Any operator electing to preserve its defenses under subdivision (1), subsection (c) of this section shall retain the services of an independent certified laboratory to conduct the predrilling or prealteration water well test. A copy of the results of the test shall be submitted to the department and the surface owner or water purveyor in a manner prescribed by the secretary. (e) Any operator shall replace the water supply of an owner of interest in real property who obtains all or part of that owner's supply of water for domestic, agricultural, industrial or other legitimate use from an underground or surface source with a comparable water supply where the secretary determines that the water supply has been affected by contamination, diminution or interruption proximately caused by the oil or gas operation, unless waived in writing by that owner. (f) The secretary may order the operator conducting the oil or gas operation to: (1) Provide an emergency drinking water supply within twenty-four hours; (2) Provide temporary water supply within seventy-two hours; (3) Within thirty days begin activities to establish a permanent water supply or submit a proposal to the secretary outlining the measures and timetables to be used in establishing a permanent supply. The total time in providing a permanent water supply may not exceed two years. If the operator demonstrates that providing a permanent replacement water supply cannot be completed within two years, the secretary may extend the time frame on case-by-case basis; and (4) Pay all reasonable costs incurred by the real property owner in securing a water supply. (g) A person as described in subsection (b) of this section aggrieved under the provisions of subsections (b), (e) or (f) of this section may seek relief in court... (i) Notwithstanding the denial of the operator of responsibility for the damage to the real property owner’s water supply or the status of any appeal on determination of liability for the damage to the real property owner’s water supply, the operator may not discontinue providing the required water service until authorized to do so by the secretary or a court of competent jurisdiction.

Written Comment:
Pursuant to West Virginia Code § 22-6A-11(a), all persons described in subsection (b), section ten of this article may file written comments with the secretary as to the location or construction of the applicant's proposed well work within thirty days after the application is filed with the secretary. All persons described in West Virginia Code § 22-6A-10(b) may file written comments as to the location or construction of the applicant’s proposed well work to the Secretary at:

Chief, Office of Oil and Gas
Department of Environmental Protection
601 57th St. SE
Charleston, WV 25304
(304) 926-0450

Such persons may request, at the time of submitting written comments, notice of the permit decision and a list of persons qualified to test water. NOTE: YOU ARE NOT REQUIRED TO FILE ANY COMMENT.
Time Limits and Methods for Filing Comments.
The law requires these materials to be served on or before the date the operator files its Application. You have THIRTY (30) DAYS after the filing date to file your comments. Comments must be filed in person or received in the mail by the Chief's office by the time stated above. You may call the Chief's office to be sure of the date. Check with your postmaster to ensure adequate delivery time or to arrange special expedited handling. If you have been contacted by the well operator and you have signed a “voluntary statement of no objection” to the planned work described in these materials, then the permit may be issued at any time.

Pursuant to West Virginia Code § 22-6A-11(c)(2), Any objections of the affected coal operators and coal seam owners and lessees shall be addressed through the processes and procedures that exist under sections fifteen, seventeen and forty, article six of this chapter, as applicable and as incorporated into this article by section five of this article. The written comments filed by the parties entitled to notice under subdivisions (1), (2), (4), (5) and (6), subsection (b), section ten of this article shall be considered by the secretary in the permit issuance process, but the parties are not entitled to participate in the processes and proceedings that exist under sections fifteen, seventeen or forty, article six of this chapter, as applicable and as incorporated into this article by section five of this article.

Comment Requirements
Your comments must be in writing and include your name, address and telephone number, the well operator's name and well number and the approximate location of the proposed well site including district and county from the application. You may add other documents, such as sketches, maps or photographs to support your comments.

Disclaimer: All comments received will be placed on our web site http://www.dep.wv.gov/oil-and-gas/Horizontal-Permits/Pages/default.aspx and the applicant will automatically be forwarded an email notice that such comments have been submitted. The applicant will be expected to provide a response to comments submitted by any surface owner, water purveyor or natural gas storage operator notified within the application.

Permit Denial or Condition
The Chief has the power to deny or condition a well work permit. Pursuant to West Virginia Code § 22-6A-8(d), the permit may not be issued or be conditioned, including conditions with respect to the location of the well and access roads prior to issuance if the director determines that:

(1) The proposed well work will constitute a hazard to the safety of persons;
(2) The plan for soil erosion and sediment control is not adequate or effective;
(3) Damage would occur to publicly owned lands or resources; or
(4) The proposed well work fails to protect fresh water sources or supplies.

A permit may also be denied under West Virginia Code § 22-6A-7(k), the secretary shall deny the issuance of a permit if the secretary determines that the applicant has committed a substantial violation of a previously issued permit for a horizontal well, including the applicable erosion and sediment control plan associated with the previously issued permit, or a substantial violation of one or more of the rules promulgated under this article, and in each instance has failed to abate or seek review of the violation within the time prescribed by the secretary pursuant to the provisions of subdivisions (1) and (2), subsection (a), section five of this article and the rules promulgated hereunder, which time may not be unreasonable.

Pursuant to West Virginia Code § 22-6A-10(g), any person entitled to submit written comments to the secretary pursuant to subsection (a), section eleven of this article, shall also be entitled to receive from the secretary a copy of the permit as issued or a copy of the order modifying or denying the permit if the person requests receipt of them as a part of the written comments submitted concerning the permit application. Such persons may request, at the time of submitting written comments, notice of the permit decision and a list of persons qualified to test water.
Notice is hereby given by:
Well Operator: CNX Gas Company, LLC
Telephone: 724-418-8709
Email: Erikawheatstone@ConsolEnergy.com

Address: 1000 Consol Energy Drive
Canonsburg, PA 15317
Facsimile: 

Oil and Gas Privacy Notice:
The Office of Oil and Gas processes your personal information, such as name, address and telephone number, as part of our regulatory duties. Your personal information may be disclosed to other State agencies or third parties in the normal course of business or as needed to comply with statutory or regulatory requirements, including Freedom of Information Act requests. Our office will appropriately secure your personal information. If you have any questions about our use or your personal information, please contact DEP's Chief Privacy Officer at depprivacyofficer@wv.gov.

COMMONWEALTH OF PENNSYLVANIA
NOTARIAL SEAL
Lori L. Walker, Notary Public
Richill Twp., Greene County
My Commission Expires Feb. 23, 2019
MEMBER, PENNSYLVANIA ASSOCIATION OF NOTARIES

Subscribed and sworn before me this 12th day of January, 2017.

Notary Public
My Commission Expires February 23, 2019

RECEIVED
Office of Oil and Gas
MAY 12, 2017
WV Department of Environmental Protection
COAL OWNER OR LESSEE:
HCC Investments, Inc.
824 N. Market St STE 900
Wilmington, DE 19801

Conrhein Coal Company
1000 Consol Energy Drive
Canonsburg, PA 15317

Consol Pennsylvania Coal Company LLC
1000 Consol Energy Drive
Canonsburg, PA 15317

CNX Thermal Holdings LLC
1000 Consol Energy Drive
Canonsburg, PA 15317

SURFACE OWNER OF WATER WELL AND/OR WATER PURVEYOR(S):
Consolidation Coal Company
46226 National Rd.
Saint Clairsville, OH 43950

Robert R. Riggle, Et Ux.
1702 Dry Ridge Rd.
Cameron, WV 26033

William E. Toland, Et Ux.
1747 Dry Ridge Rd.
Cameron, WV 26033

Donald Wesley Carn — Est.
1725 Dry Ridge Rd.
Cameron, WV 26033

Nicole R. Riggle
1831 Dry Ridge Rd.
Cameron, WV 26033

CNX Land LLC.
1000 Consol Energy Dr.
Canonsburg, PA 15317

Mt. Hope Cemetery Assoc.
RR. 4 Box 87
Cameron, WV 26033

RECEIVED
Office of Oil and Gas
MAY 12 2017
WV Department of Environmental Protection
James Kevin Sampson  
212 Lone Oak Rd.  
Cameron, WV 26033

Colleen A. Riggle  
1531 Dry Ridge Rd.  
Cameron, WV 26033

Board of Education  
2700 4th St.  
Moundsville, WV 26041

Albert J. Paczewski, Jr., Et Ux.  
Rd 4 Box 249D  
Cameron, WV 26033

RECEIVED  
Office of Oil and Gas  
MAY 12 2017  
WV Department of Environmental Protection
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**RECEIVED**

Office of Oil and Gas

MAY 12 2017

WV Department of Environmental Protection

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**Blue Mountain Inc.**

11023 Mason Dixon Highway
Burton, WV 26562
PHONE: (304) 662-6486

---

**PREPARED FOR:**

CNX GAS COMPANY LLC
1000 CONSOL ENERGY DRIVE
CANONSBURG, PA 15317

---

**MAJ6**

WATER PURVEYOR MAP
MARSHALL COUNTY
WEBSTER DISTRICT
WEST VIRGINIA

---

**LEGEND**

① - POSSIBLE WATER PURVEYOR

**TOPO QUAD:** MAJORSVILLE, WV

**SCALE:** 1" = 1000'

**DATE:** NOVEMBER 16, 2016
November 16, 2016

CNX GAS COMPANY LLC
1000 CONSOL ENERGY DRIVE
CANONSBURG, PA 15317

WATER WELL REPORT

PROJECT: MAJ6
DISTRICT: Webster
COUNTY: Marshall
STATE: West Virginia

The following surface owners may have water supplies within 2,000 feet of the above location:

<table>
<thead>
<tr>
<th>NAME</th>
<th>ADDRESS</th>
<th>CITY, STATE, ZIP</th>
</tr>
</thead>
<tbody>
<tr>
<td>4) Consolidation Coal Company</td>
<td>46226 National Rd.</td>
<td>Saint Clairsville, OH 43950</td>
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<td>5) Consolidation Coal Company</td>
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<td>Saint Clairsville, OH 43950</td>
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<td>8) Consolidation Coal Company</td>
<td>46226 National Rd.</td>
<td>Saint Clairsville, OH 43950</td>
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<td>9) Robert R. Riggle, Et Ux.</td>
<td>1702 Dry Ridge Rd.</td>
<td>Cameron, WV 26033</td>
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<td>10) Donald W. Carn – Est.</td>
<td>1725 Dry Ridge Rd.</td>
<td>Cameron, WV 26033</td>
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<td>11) William E. Toland, Et Ux.</td>
<td>1747 Dry Ridge Rd.</td>
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<td>12) Donald Wesley Carn – Est.</td>
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<td>13) Nicole R. Riggle</td>
<td>1831 Dry Ridge Rd.</td>
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<td>14) CNX Land LLC.</td>
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<td>15) Consolidation Coal Company</td>
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<td>16) Robert R. Riggle, Et Ux.</td>
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<td>17) Mt. Hope Cemetery Assoc.</td>
<td>RR. 4 Box 87</td>
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The following surface owners may have water supplies within 2,500 feet of the above location:

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<th>ADDRESS</th>
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<td>1) James Kevin Sampson</td>
<td>212 Lone Oak Rd.</td>
<td>Cameron, WV 26033</td>
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<tr>
<td>2) CNX LAND LLC.</td>
<td>1000 Consol Energy Dr.</td>
<td>Canonsburg, PA 15317</td>
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<td>3) Colleen A. Riggle</td>
<td>1531 Dry Ridge Rd.</td>
<td>Cameron, WV 26033</td>
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<tr>
<td>18) Board of Education</td>
<td>2700 4th St.</td>
<td>Moundsville, WV 26041</td>
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<td>19) Albert J. Paczewski, Jr., Et Ux.</td>
<td>Rd 4 Box 249D</td>
<td>Cameron, WV 26033</td>
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**PREPARED FOR:**
CNX GAS COMPANY LLC
1000 CONSOL ENERGY DRIVE
CANONSBURG, PA 15317

**LEGEND**
1 - POSSIBLE WATER PURVEYOR

**MAJ6**
WATER PURVEYOR MAP
MARSHALL COUNTY
WEBSTER DISTRICT
WEST VIRGINIA

**TOPO QUAD:** MAJORSVILLE, WV
**SCALE:** 1" = 1000'
**DATE:** NOVEMBER 16, 2016
November 16, 2016

CNX GAS COMPANY LLC
1000 CONSOL ENERGY DRIVE
CANONSBURG, PA 15317

WATER WELL REPORT

PROJECT: MAJ6
DISTRICT: Webster
COUNTY: Marshall
STATE: West Virginia

The following surface owners may have water supplies within 2,000 feet of the above location:

<table>
<thead>
<tr>
<th>NAME</th>
<th>ADDRESS</th>
<th>CITY, STATE, ZIP</th>
</tr>
</thead>
<tbody>
<tr>
<td>4) Consolidation Coal Company</td>
<td>46226 National Rd.</td>
<td>Saint Clairsville, OH 43950</td>
</tr>
<tr>
<td>5) Consolidation Coal Company</td>
<td>46226 National Rd.</td>
<td>Saint Clairsville, OH 43950</td>
</tr>
<tr>
<td>6) Consolidation Coal Company</td>
<td>46226 National Rd.</td>
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<tr>
<td>8) Consolidation Coal Company</td>
<td>46226 National Rd.</td>
<td>Saint Clairsville, OH 43950</td>
</tr>
<tr>
<td>9) Robert R. Riggle, Et Ux.</td>
<td>1702 Dry Ridge Rd.</td>
<td>Cameron, WV 26033</td>
</tr>
<tr>
<td>10) Donald W. Carn - Est.</td>
<td>1725 Dry Ridge Rd.</td>
<td>Cameron, WV 26033</td>
</tr>
<tr>
<td>11) William E. Toland, Et Ux.</td>
<td>1747 Dry Ridge Rd.</td>
<td>Cameron, WV 26033</td>
</tr>
<tr>
<td>12) Donald Wesley Carn – Est.</td>
<td>1725 Dry Ridge Rd.</td>
<td>Cameron, WV 26033</td>
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<tr>
<td>13) Nicole R. Riggle</td>
<td>1831 Dry Ridge Rd.</td>
<td>Cameron, WV 26033</td>
</tr>
<tr>
<td>14) CNX Land LLC.</td>
<td>1000 Consol Energy Dr.</td>
<td>Canonsburg, PA 15317</td>
</tr>
<tr>
<td>15) Consolidation Coal Company</td>
<td>46226 National Rd.</td>
<td>Saint Clairsville, OH 43950</td>
</tr>
<tr>
<td>16) Robert R. Riggle, Et Ux.</td>
<td>1702 Dry Ridge Rd.</td>
<td>Cameron, WV 26033</td>
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<tr>
<td>17) Mt. Hope Cemetery Assoc.</td>
<td>RR. 4 Box 87</td>
<td>Cameron, WV 26033</td>
</tr>
</tbody>
</table>
The following surface owners may have water supplies within 2,500 feet of the above location:

<table>
<thead>
<tr>
<th>NAME</th>
<th>ADDRESS</th>
<th>CITY, STATE, ZIP</th>
</tr>
</thead>
<tbody>
<tr>
<td>1) James Kevin Sampson</td>
<td>212 Lone Oak Rd.</td>
<td>Cameron, WV 26033</td>
</tr>
<tr>
<td>2) CNX LAND LLC.</td>
<td>1000 Consol Energy Dr.</td>
<td>Canonsburg, PA 15317</td>
</tr>
<tr>
<td>3) Colleen A. Riggle</td>
<td>1531 Dry Ridge Rd.</td>
<td>Cameron, WV 26033</td>
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<tr>
<td>18) Board of Education</td>
<td>2700 4th St.</td>
<td>Moundsville, WV 26041</td>
</tr>
<tr>
<td>19) Albert J. Paczewski, Jr., Et Ux.</td>
<td>Rd 4 Box 249D</td>
<td>Cameron, WV 26033</td>
</tr>
</tbody>
</table>

RECEIVED
Office of Oil and Gas
MAY 12, 2017
WV Department of Environmental Protection
STATE OF WEST VIRGINIA  
DEPARTMENT OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS
NOTICE OF ENTRY FOR PLAT SURVEY

Notice Time Requirement: Notice shall be provided at least SEVEN (7) days but no more than FORTY-FIVE (45) days prior to entry.
Date of Notice: 10/26/16  Date of Planned Entry: 11/3/16

Delivery method pursuant to West Virginia Code § 22-6A-10a
☐ PERSONAL  ☐ REGISTERED  ☐ METHOD OF DELIVERY THAT REQUIRES A RECEIPT OR SIGNATURE CONFIRMATION

Pursuant to West Virginia Code § 22-6A-10(a), Prior to filing a permit application, the operator shall provide notice of planned entry on to the surface tract to conduct any plat surveys required pursuant to this article. Such notice shall be provided at least seven days but no more than forty-five days prior to such entry to: (1) The surface owner of such tract; (2) to any owner or lessee of coal seams beneath such tract that has filed a declaration pursuant to section thirty-six, article six, chapter twenty-two of this code; and (3) any owner of minerals underlying such tract in the county tax records. The notice shall include a statement that copies of the state Erosion and Sediment Control Manual and the statutes and rules related to oil and gas exploration and production may be obtained from the Secretary, which statement shall include contact information, including the address for a web page on the Secretary’s web site, to enable the surface owner to obtain copies from the secretary.

Notice is hereby provided to:

☐ SURFACE OWNER(s) ✓
Name: CNX Land, LLC
Address: 1000 Consol Energy Drive
Canonsburg, PA 15317

Name: Consol Mining Company, LLC ✓
Address: 1000 Consol Energy Drive
Canonsburg, PA 15317

Name: Albert Paczewski ✓
Address: Rt 4 Box 2490
Cameron, WV 26333

☐ COAL OWNER OR LESSEE
Name: See attached.
Address: See attached.

☐ MINERAL OWNER(s)
Name: CNX Gas Company LLC ✓
Address: 1000 Consol Energy Drive
Canonsburg, PA 15317

*please attach additional forms if necessary

Notice is hereby given:
Pursuant to West Virginia Code § 22-6A-10(a), notice is hereby given that the undersigned well operator is planning entry to conduct a plat survey on the tract of land as follows:

State: West Virginia
County: Marshall
District: Webster
Quadangle: Majorville

Approx. Latitude & Longitude: 39° 56' 04.68"N, 80° 52' 64.61"W
Public Road Access: Lone Oak Road
Watershed: Upper Ohio South
Generally used farm name: Majorville

Copies of the state Erosion and Sediment Control Manual and the statutes and rules related to oil and gas exploration and production may be obtained from the Secretary, at the WV Department of Environmental Protection headquarters, located at 601 5th Street, SE, Charleston, WV 25304 (304-926-0450). Copies of such documents or additional information related to horizontal drilling may be obtained from the Secretary by visiting www.dep.wv.gov/oil-and-gas/pages/default.aspx.

Notice is hereby given by:
Well Operator: CNX Gas Company, LLC
Telephone: 724-485-4000
Email: ErikaWheatstone@ConsolEnergy.com

Address: 1000 Consol Energy Drive
Canonsburg, PA 15317

Fax: 724-485-4025

Oil and Gas Privacy Notice:
The Office of Oil and Gas processes your personal information, such as name, address and telephone number, as part of our regulatory duties. Your personal information may be disclosed to other State agencies or third parties in the normal course of business or as needed to comply with statutory or regulatory requirements, including Freedom of Information Act requests. Our office will appropriately secure your personal information. If you have any questions about our use or your personal information, please contact DEP’s Chief Privacy Officer at depprivacyofficer@wv.gov.
COAL OWNER OR LESSEE:

HCC Investments, Inc.  
824 N. Market St STE 900  
Wilmington, DE 19801  

Conrhein Coal Company  
1000 Consol Energy Drive  
Canonsburg, PA 15317  

Consol Pennsylvania Coal Company LLC  
1000 Consol Energy Drive  
Canonsburg, PA 15317  

CNX Thermal Holdings LLC  
1000 Consol Energy Drive  
Canonsburg, PA 15317  

RECEIVED  
Office of Oil and Gas  
MAY 12 2017  
WV Department of Environmental Protection
STATE OF WEST VIRGINIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS
NOTICE OF PLANNED OPERATION

Notice Time Requirement: notice shall be provided no later than the filing date of permit application.
Date of Notice: 5/11/17  Date Permit Application Filed: 5/11/17

Delivery method pursuant to West Virginia Code § 22-6A-16(c)
☐ CERTIFIED MAIL  ☐ HAND  RETURN RECEIPT REQUESTED  DELIVERY

Pursuant to W. Va. Code § 22-6A-16(c), no later than the date for filing the permit application, an operator shall, by certified mail return receipt requested or hand delivery, give the surface owner whose land will be used for the drilling of a horizontal well notice of the planned operation. The notice required by this subsection shall include: (1) A copy of this code section; (2) The information required to be provided by subsection (b), section ten of this article to a surface owner whose land will be used in conjunction with the drilling of a horizontal well; and (3) A proposed surface use and compensation agreement containing an offer of compensation for damages to the surface affected by oil and gas operations to the extent the damages are compensable under article six-b of this chapter. (d) The notices required by this section shall be given to the surface owner at the address listed in the records of the sheriff at the time of notice.

Notice is hereby provided to the SURFACE OWNER(s)
(at the address listed in the records of the sheriff at the time of notice):
Name: CNX Land, LLC
Address: 1000 Consol Energy Drive
Canonsburg, PA 15317

Name: Consol Mining Company, LLC
Address: 1000 Consol Energy Drive
Canonsburg, PA 15317

Notice is hereby given:
Pursuant to West Virginia Code § 22-6A-16(c), notice is hereby given that the undersigned well operator has developed a planned operation on the surface owner’s land for the purpose of drilling a horizontal well on the tract of land as follows:
State: West Virginia  UTM NAD 83-Easting: 538574.78
County: Marshall  Northing: 4420604.10
District: Webster  Public Road Access: Lone Oak Road
Quadrangle: Majorsville  Generally used farm name: Majorsville
Watershed: Wheeling Creek

This Notice Shall Include:
Pursuant to West Virginia Code § 22-6A-16(c), this notice shall include: (1) A copy of this code section; (2) The information required to be provided by W. Va. Code § 22-6A-10(b) to a surface owner whose land will be used in conjunction with the drilling of a horizontal well; and (3) A proposed surface use and compensation agreement containing an offer of compensation for damages to the surface affected by oil and gas operations to the extent the damages are compensable under article six-b of this chapter. Additional information related to horizontal drilling may be obtained from the Secretary, at the WV Department of Environmental Protection headquarters, located at 601 57th Street, SE, Charleston, WV 25304 (304-926-0450) or by visiting www.dep.wv.gov/oil-and-gas/pages/default.aspx.

Well Operator: CNX Gas Company, LLC
Address: 1000 Consol Energy Drive
Canonsburg, PA 15317

Telephone: 724-485-4835  Facsimile: 
Email: EnikoWhatmone@ConsolEnergy.com

Oil and Gas Privacy Notice:
The Office of Oil and Gas processes your personal information, such as name, address and telephone number, as part of our regulatory duties. Your personal information may be disclosed to other State agencies or third parties in the normal course of business or as needed to comply with statutory or regulatory requirements, including Freedom of Information Act requests. Our office will appropriately secure your personal information. If you have any questions about our use or your personal information, please contact DEP’s Chief Privacy Officer at depprivacyofficer@wv.gov.

RECEIVED
Office of Oil and Gas
MAY 12 2017
WV Department of Environmental Protection
January 6, 2017

James A. Martin, Chief
Office of Oil and Gas
Department of Environmental Protection
601 57th Street, SE
Charleston, WV 25304

Subject: DOH Permit for the MAJ-6 Well Pad, Marshall County
MAJ6EHSUT Well Site ✓
MAJ6FHSUT Well Site ✓

Dear Mr. Martin,

The West Virginia Division of Highways has issued Permit #06-2016-0420 for the subject site to CNX Gas Company LLC for access to the State Road for the well site located off of Marshall County Route 48 SLS.

The operator has signed an OIL AND GAS ROAD MAINTENANCE BONDING AGREEMENT and provided the required Bond. This operator is currently in compliance with the DOH OIL AND GAS POLICY dated January 3, 2012.

Very Truly Yours,

Gary K. Clayton
Regional Maintenance Engineer
Central Office Oil & Gas Coordinator

Cc: Shannon Miller
CNX Energy LLC.
CH, OM, D-6
File
Section VI – Proposed Additives to be used in Fracturing or Stimulation

Type: Water CAS: 7732-18-5
Type: Silica CAS: 14808-60-7
Type: Hydrochloric Acid CAS: 7647-01-0
Type: Copolymer of Two Propenamide CAS: 69418-26-4
Type: Petroleum distillate CAS: 64742-47-8
Type: Glutaraldehyde CAS: 111-30-8
Type: Ethylene glycol CAS: 107-21-1
Type: Diethylene glycol mono n-butyl ether CAS: 112-34-5
Type: Oleic acid diethanolamide CAS: 93-83-4
Type: Alcohols, C12-16, ethoxylated CAS: 68551-12-2
Type: Quaternary ammonium compound CAS: 68424-85-1
Type: Ammonium chloride CAS: 12125-02-9
Type: Short chained glycol ether CAS: 112-34-5
Type: Ethoxylated (C10-16) alcohols CAS: 68002-97-1
Type: Methyl alcohol CAS: 67-56-1
Type: Formaldehyde CAS: 50-00-0
Type: Thiourea CAS: 62-56-6
Type: Acetophenone CAS: 98-86-2
MAJ-6 WELL SITE

ENTRANCE LOCATION
NAD 83 - LAT: N 39° 56' 15.83"; LONG: W 80° 32' 46.44"
NAD 27 - LAT: N 39° 56' 15.25"; LONG: W 80° 32' 47.17"
UTM (METERS) - N: 5420935.820, E: 538768.866

CENTER OF WELL PAD LOCATION
NAD 83 - LAT: N 39° 56' 04.90"; LONG: W 80° 32' 54.26"
NAD 27 - LAT: N 39° 56' 04.12"; LONG: W 80° 32' 54.93"
UTM (METERS) - N: 4420606.599, E: 538586.158

CENTER OF TANK PAD LOCATION
NAD 83 - LAT: N 39° 56' 13.22"; LONG: W 80° 32' 49.32"
NAD 27 - LAT: N 39° 56' 12.94"; LONG: W 80° 32' 50.05"
UTM (METERS) - N: 4423853.695, E: 538700.677

WEBSTER DISTRICT,
MARSHALL COUNTY, WEST VIRGINIA
DATE: JANUARY 11, 2017

BLUE MOUNTAIN INC.
113 1/2 Mason Dixon Hwy.
Bureau, WV 26520-3656
Engineers and Land Surveyors
(304) 652-0486

NOTE: DRAWING WAS CREATED ON 2X354 PAPER, 1X37 DRAWINGS ARE HALF-SCALE. REFER TO SCALE BAR FOR PROPER SCALING.
MAJ-6 WELL

ENTRANCE LOCATION

NAD 83 - LAT: N 39° 56' 15.53"; LONG: W 81° 16' 03.99"
NAD 27 - LAT: N 39° 56' 15.25"; LONG: W 81° 16' 03.99"

UTM (METERS) - N: 4420935.260; E: 514903.460

CENTER OF WELL PAD LOCATION

NAD 83 - LAT: N 39° 56' 04.90"; LONG: W 81° 15' 59.35"
NAD 27 - LAT: N 39° 56' 04.62"; LONG: W 81° 15' 59.35"

UTM (METERS) - N: 4420606.599; E: 514903.460

CENTER OF TANK PAD LOCATION

NAD 83 - LAT: N 39° 56' 13.22"; LONG: W 81° 15' 59.35"
NAD 27 - LAT: N 39° 56' 12.94"; LONG: W 81° 15' 59.35"

UTM (METERS) - N: 4420863.695; E: 514903.460

WEBSTER DISTRIBUTION CENTER

MARSHALL COUNTY, WEST VIRGINIA

DATE: JANUARY

Blue Mountain Inc.
10125 Mason Dixon Hwy.
Burton, WV 26562-9636
Engineers and Land Surveyors
(304) 662-6486

Note: Drawing was created on 22x34 paper. All drawings are half scale. Refer to scale bar.
ENVIRONMENTAL NOTES

A wetland delineation was performed on April 29, 2015 & October 31, 2016 by Blue Mountain Inc. to review the site for waters and wetlands that are most likely within the regulatory purview of the U.S. Army Corps of Engineers and/or the West Virginia Department of Environmental Protection. The November 7, 2016 report for the Thomas Well Site, which was prepared by Blue Mountain Inc., summarizes the results of the field delineation. The report does not, in any way, represent a jurisdictional determination of the landward limits of waters and wetlands which may be regulated by the USACE or WVDEP. It is strongly recommended that the aforementioned agencies be consulted in an effort to gain confirmation of the delineation described by the report prior to engaging construction on the property described herein. The developer shall obtain the appropriate permits from the federal and/or state regulatory agencies prior to any proposed impacts to waters of the U.S., including wetland fills and stream crossings.

GEOENGINEERING NOTES

A subsurface investigation of the proposed site was performed in the field by NGE, LLC on May 28, 2015. The reports prepared by NGE, LLC dated November 3, 2016 reflects the results of the subsurface investigation. Please refer to the subsurface investigation report for additional information, as needed.

RESTRICTIONS

1. There are no naturally producing trout streams within 300' of the pad & LOD.
2. There are no groundwater intake or public water supply facilities within 1000' of the pad and LOD.
3. There are no existing water wells or developed springs within 250' of the wells being drilled.
4. There are no occupied dwelling structures within 625' of the center of the pad.
5. There are no agricultural buildings larger than 2,500 square feet within 625' of the center of the pad.
6. There are no perennial streams, lakes, ponds or reservoirs within 100' of the proposed limits of disturbance.

CERTIFICATION:

I DO HEREBY CERTIFY TO THE BEST OF MY KNOWLEDGE, INFORMATION AND BELIEF, THAT THE EROSION AND SEDIMENT CONTROL PLAN AND SITE RESTORATION PLAN AND POST CONSTRUCTION BMPs ARE TRUE AND CORRECT, REPRESENT ACTUAL FIELD CONDITIONS AND ARE IN ACCORDANCE WITH THE WEST VIRGINIA CODE AND THE DEPARTMENT'S RULES AND REGULATIONS. I AM AWARE THAT THERE ARE SIGNIFICANT PENALTIES FOR SUBMITTING FALSE INFORMATION, INCLUDING THE POSSIBILITY OF FINE AND IMPRISONMENT.

SIGNATURE: ________________________ DATE: 01/01/2017