PERMIT MODIFICATION APPROVAL

August 12, 2014

CNX GAS COMPANY LLC
POST OFFICE BOX 1248
JANE LEW, WV 26378

Re: Permit Modification Approval for API Number 1706409, Well #: OXFD 11 AHS
Intermediate casing depth changed

Oil and Gas Operator:
The Office of Oil and Gas has reviewed the attached permit modification for the above referenced permit. The attached modification has been approved and well work may begin. Please be reminded that the oil and gas inspector is to be notified twenty-four (24) hours before permitted well work is commenced.

Please call James Martin at 304-926-0499, extension 1654 if you have any questions.

Sincerely,

Gene Smith
Assistant Chief of Permitting
Office of Oil and Gas

Promoting a healthy environment.
08/15/2014
May 16, 2014

West Virginia Department of Environmental Protection
Office of Oil & Gas
Attn: Laura Cooper
601 57th Street, SE
Charleston, WV 25304-2345

RE: OXFD11HS - Modifications (Intermediate Casing Depth Change)

Dear Laura,

Enclosed, please find for your approval and consideration, updated casing modifications where the intermediate casing depths have been changed. The casing modifications are for the following laterals:

<table>
<thead>
<tr>
<th>WELL NUMBER</th>
<th>API NUMBER</th>
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<tbody>
<tr>
<td>OXFD11AHS</td>
<td>4701706409</td>
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<tr>
<td>OXFD11BHS</td>
<td>4701706410</td>
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<tr>
<td>OXFD11CHS</td>
<td>4701706411</td>
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<td>OXFD11DHS</td>
<td>4701706412</td>
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<td>OXFD11EHS</td>
<td>4701706413</td>
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<tr>
<td>OXFD11KHS</td>
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Should you need any additional information, please contact me at (304) 884-2057 or by email at carolindaflanagan@consolenergy.com. Thank you!

Sincerely,

Carolinda Flanagan
STATE OF WEST VIRGINIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS
WELL WORK PERMIT APPLICATION

1) Well Operator: CNX Gas Company LLC 494458046 Doddridge Southwest Oxford
   Operator ID County District Quadrangle

2) Operator’s Well Number: OXFD11AHS Well Pad Name: OXFD11HS

3) Farm Name/Surface Owner: I.L. Morris Public Road Access: Co. Rt. 19/11

4) Elevation, current ground: 1340' Elevation, proposed post-construction: 1310'

5) Well Type (a) Gas Oil Underground Storage
   Other
   (b) If Gas Shallow Deep Horizontal 5/2/2014

6) Existing Pad: Yes or No NO

7) Proposed Target Formation(s), Depth(s), Anticipated Thickness and Associated Pressure(s):
   Target - Marcellus, Depth - 6950', Thickness - 60', Pressure - 2500#

8) Proposed Total Vertical Depth: 7110'

9) Formation at Total Vertical Depth: Marcellus

10) Proposed Total Measured Depth: 13675'

11) Proposed Horizontal Leg Length: 5500'

12) Approximate Fresh Water Strata Depths: 50', 620'

13) Method to Determine Fresh Water Depths: Offset Well

14) Approximate Saltwater Depths: 1180', 2085'

15) Approximate Coal Seam Depths: 620'

16) Approximate Depth to Possible Void (coal mine, karst, other): None Anticipated

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: _____________________________ RECEIVED

   Owner: _____________________________ Office of Oil and Gas

MAY 20 2014

4701706409 MOD
### CASING AND TUBING PROGRAM

<table>
<thead>
<tr>
<th>TYPE</th>
<th>Size</th>
<th>New or Used</th>
<th>Grade</th>
<th>Weight per ft (lb/ft)</th>
<th>FOOTAGE: For Drilling</th>
<th>INTERVALS: Left in Well</th>
<th>CEMENT: Fill-up (Cu. Ft.)</th>
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<tbody>
<tr>
<td>Conductor</td>
<td>20&quot;</td>
<td>N</td>
<td>L.S.</td>
<td>81.3#</td>
<td>100'</td>
<td>100'</td>
<td>Class A Type cement</td>
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<tr>
<td>Fresh Water</td>
<td>13 3/8&quot;</td>
<td>N</td>
<td>J-55</td>
<td>54.5#</td>
<td>690'</td>
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<td>CTS w/ Class A Type Cement</td>
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<tr>
<td>Coal</td>
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</tr>
<tr>
<td>Intermediate</td>
<td>9 5/8&quot;</td>
<td>N</td>
<td>J-55</td>
<td>36#</td>
<td>2800'</td>
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<tr>
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<td>P-110</td>
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<td>Tubing</td>
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<td>N</td>
<td>J-55</td>
<td>4.7#</td>
<td>7450'</td>
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<table>
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<tr>
<th>TYPE</th>
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<th>Wellbore Diameter</th>
<th>Wall Thickness</th>
<th>Burst Pressure</th>
<th>Cement Type</th>
<th>Cement Yield (cu. ft./k)</th>
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<td>2110</td>
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<td>Fresh Water</td>
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<td>17 1/2&quot;</td>
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<td>2730</td>
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<tr>
<td>Intermediate</td>
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<td>12 3/8&quot;</td>
<td>0.352</td>
<td>3520</td>
<td>Class A Type</td>
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<td>Production</td>
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<td>8 3/4&quot; &amp; 8 1/2&quot;</td>
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<td>12640</td>
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### PACKERS

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<td>Sizes:</td>
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<td>Depths Set:</td>
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*Received by Office of Oil and Gas: MAY 20 2014*

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

Drill and stimulate new horizontal Marcellus well. Well to be drilled to a TMD of 13875'. Well to be drilled to a TVD of 7110', formation at TVD - Onondaga Group. The well bore will not be drilled any deeper than 100' into the Onondaga Group, nor will there be any perforation, stimulation, or production of any formations below the target formation. Well will be plugged back to an approximate depth of 6800' (approximate due to exact kick off point being unknown). Plugging back will be done using the displacement method and Class A Type cement. A solid cement plug will be set from TD to KOP. If an unexpected void is encountered, plan will be to set casing at a minimum of 30' past void and cement to surface with approved Class A type cement.

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 - 9500 psi. Max Rate - 100 bbl/min.

21) Total Area to be disturbed, including roads, stockpile area, pits, etc., (acres): 24.4 Acres

22) Area to be disturbed for well pad only, less access road (acres): 20.4 Acres

23) Describe centralizer placement for each casing string:

Conductor - No centralizers used. Fresh Water & Coal - Bow spring centralizers on first joint then every fourth joint to 100 feet from surface. Intermediate - Bow spring centralizers one on the first two joints and every forth joint until inside surface casing. Production - Rigid bow spring centralizer on first joint then every 2 casing joints (free floating) through the lateral and the curve. (Note: cementing the 5 1/2" casing completely in open hole lateral and curve.)

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

Conductor - 2% CaCl2. Fresh Water/Coal - 2% CaCl2. Intermediate - 2% CaCl2. Production - 2.6% Cement extender, 0.7% Fluid loss additive, 0.5% High Temperature Retarder, 0.2% Friction Reducer

25) Proposed borehole conditioning procedures:

Conductor - The hole is drilled w/ air and casing ran in air. Apart from insuring the hole is clean, via air circulation at TD, there are no other conditioning procedures. Fresh Water/Coal - The hole is drilled w/ air and casing is ran in air. Once casing is on bottom, the casing shoe will be cleared with fresh water and gel prior to cementing. Intermediate - The hole is drilled w/ air and casing is ran in air. Once casing is on bottom, the casing shoe will be cleared with fresh water and gel prior to cementing. (Note: Drilling soap may be utilized if the hole gets wet/damp during the drilling of all air holes with the exception of the conductor). Production - The hole will be drilled with synthetic oil base mud and once at TD the hole is circulated at a drilling pump rate until the hole is clean. Once casing is ran the hole is circulated for a minimum of one hole volume prior to pumping cement.

*Note: Attach additional sheets as needed.