January 08, 2015

WELL WORK PERMIT

Horizontal 6A Well

This permit, API Well Number: 47-5101774, issued to CHEVRON APPALACHIA, LLC, 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 all 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 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.

In addition to the applicable requirements of this permit, and the statutes and rules governing oil and gas activity in WV, this permit may contain specific conditions which must be followed. Permit conditions are attached to this cover letter.

Per 35CSR-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) 926-0499 ext. 1654.

James Martin
Chief

Operator's Well No: CONNER 9H
Farm Name: KNABENSHUE, SARAH J. ET AL
API Well Number: 47-5101774
Permit Type: Horizontal 6A Well
Date Issued: 01/08/2015

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 fifty (50) 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. 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.

8. 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.

9. Operator shall provide the Office of Oil & Gas notification of the date that drilling commenced on this well. Such notice shall be provided by sending an email to DEPOOGNotify@wv.gov within 30 days of commencement of drilling.
**STATE OF WEST VIRGINIA**  
DEPARTMENT OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS  
WELL WORK PERMIT APPLICATION

1) Well Operator: Chevron Appalachia, LLC  
Operator ID: 49449935  
County: Marshall  
District: Clay  
Quadrangle: Businessburg, WV 7.5'

2) Operator's Well Number: 9H  
Well Pad Name: Conner

3) Farm Name/Surface Owner: Conner  
Public Road Access: County Hwy 8856 (Kull Lane)

4) Elevation, current ground: 1220'  
Elevation, proposed post-construction: 1220'

5) Well Type  
(a) Gas  
(b) If Gas  
Shallow  
Deep  
Horizontal

6) Existing Pad: Yes or No  
Yes

7) Proposed Target Formation(s), Depth(s), Anticipated Thickness and Associated Pressure(s):  
Marcellus, 632', 4910.65 psi/ft.

8) Proposed Total Vertical Depth: 6,329'

9) Formation at Total Vertical Depth: Marcellus

10) Proposed Total Measured Depth: 15,149'

11) Proposed Horizontal Leg Length: 7,500'

12) Approximate Fresh Water Strata Depths: 80' 230'

13) Method to Determine Fresh Water Depths: Local stream base/Conner 4H Plio/Volset operators

14) Approximate Saltwater Depths: 3362'

15) Approximate Coal Seam Depths: 752'

16) Approximate Depth to Possible Void (coal mine, karst, other): None  
Anticipated well bores are located in an interior barrier (see coal exhibit)

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

(a) If Yes, provide Mine Info:  
Name: Ireland Mine  
Depth: 752'  
Seam: Pittsburgh No 8 Coal Seam  
Owner: CONSOL Energy

**Received**  
Office of Oil & Gas  
DEC. 29 2014
# 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>30&quot;</td>
<td>New</td>
<td></td>
<td></td>
<td>40'</td>
<td>40'</td>
<td>CTS</td>
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<tr>
<td>Fresh Water</td>
<td>13-3/8&quot;</td>
<td>New</td>
<td>J-55</td>
<td>54.5#</td>
<td>323'</td>
<td>323'</td>
<td>CTS</td>
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<tr>
<td>Coal</td>
<td></td>
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<tr>
<td>Intermediate</td>
<td>9-5/8&quot;</td>
<td>New</td>
<td>N-80</td>
<td>40#</td>
<td>2,157'</td>
<td>2,157'</td>
<td>CTS</td>
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<tr>
<td>Production</td>
<td>5.5&quot;</td>
<td>New</td>
<td>P-110</td>
<td>20#</td>
<td>15,149'</td>
<td>15,149'</td>
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<tr>
<td>Tubing</td>
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<td></td>
<td></td>
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</tr>
<tr>
<td>Liners</td>
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**Note:** 8/19/14

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# PACKERS

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</thead>
<tbody>
<tr>
<td>Sizes:</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
| Depths Set: |       |       | 01/09/2015

---

**Page 2 of 3**
19) Describe proposed well work, including the drilling and plugging back of any pilot hole:

Drill 17.5" hole to 323' then run and cement 13-3/8" casing to surface covering the fresh water. Drill 12.25" hole 2157' then run and cement to surface 9 5/8" casing. Drill 8 1/2" hole to KOP. Drill 8 1/2" curve and lateral to 15,149' MD and 6,329' TVD. Run 5 1/2" production casing and cement back to surface.

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

Chevron will utilize plug and perf method with 36 stages using 8,572 bbl of fluid and 315,000 lbm of sand per stage

21) Total Area to be disturbed, including roads, stockpile area, pits, etc., (acres): 9.9

22) Area to be disturbed for well pad only, less access road (acres): 3.8 ac

23) Describe centralizer placement for each casing string:

There will be a bow spring centralizer every two jts on the Water string and intermediate. The production string will have two centralizer every jt in the lateral and curve, then one every two jts from KOP to surface.

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

The Water String blend will contain class A cement, 3% CaCl2, and flake. The intermediate will contain class A cement, 10% CaCl2, Salt, and flake. The Production cement will have a lead and tail cement. The lead will contain class A cement, KCl, dispersant, suspension agent, and retarder. The tail will contain class A cement, Calcium Carbonate, KCl, dispersant, de-foamer, suspension agent, and friction reducer.

25) Proposed borehole conditioning procedures:

Well will be circulated a minimum of 3 bottoms up once casing point has been reached on all hole sections and until uniform mud properties are achieved.

*Note: Attach additional sheets as needed.
Scenario-1: Marcellus well drilled first as Pilot well:

a. If a void is encountered, we will drill ahead to min 30’ or max 50’ below mine void and stop drilling.
   - Notify DEP Inspector and obtain permit/ approval to plug back hole. The plugback procedure will be as follows:
     - Trip in hole with 2-7/8” tubing cement stinger to 20’ above top of void.
     - Mix and pump cement to fill rat hole below void. Trip out of hole and lay down tubing
     - Trip in hole with Open Hole Packer and set at 20’ above top of void. Test packer.
     - Trip out of hole and lay down packer running tool
     - TIH w/ 2-7/8” tubing to 5’+/- from top of packer
     - Mix and pump 15.6ppg cement on top of packer and fill hole to within 10’ from surface.
     - Trip out of hole and lay down tubing.
     - Nipple down BOPE and related equipment
     - Cut casing, lay wellhead and casing cut piece
     - Weld on steel plate to cover casing
     - Rig down and skid rig to next well. Note: Cellar ring removal, cellar filling and installation of land mark will be done later

The rest wells original plan will be revised to incorporate a coal casing string as follows:

b. Marcellus Wells Contingency Casing Plan:
   - Drill 26” hole to 330’ (min 50’ or max 150’ beyond freshwater zone)
   - Run 20” 94.5# J-55 BTC casing
   - Cement casing to surface using displacement method with 30% excess
   - Drill 17-1/2” hole to 800’ (min 30’ or max 50 beyond mine void)
   - Run 13-3/8” 54.5# J-55 BTC casing with cement basket 20’ above mine void
   - Cement casing using displacement method to bottom of mine void using 100% excess
   - Grout from surface to cement basket using whatever volume of cement necessary to get cement to surface
   - Drill 12-1/4” hole to 2,157’ (50’ below the base of the Burgoon)
   - Run 9-5/8” 40# N-80 BTC casing to isolate shallow gas sand and salt water zones
   - Cement casing to surface using displacement method with 30% excess
   - Drill 8-1/2” production hole to TD
   - Run 5 7/8” 20# P-110 VA Superior production casing to TD
   - Cement casing to surface using displacement method with 10% excess

Scenario-2: Drilling String/ Bottom Hole Assembly Stuck during drilling:

- If the drill string/BHA gets stuck during drilling operation:
  - Make all necessary effort and attempt to free the drill string/BHA.
  - If all effort and attempts proves unsuccessful, will notify WV DEP Inspector of situation and obtain verbal and/or email approval to plug hole back with cement plug(s) and sidetrack well
  - Cement plug(s) will be set as needed to the desired depth adequate for successful sidetrack of well without compromising anti-collision with the original hole and ghost well(s)/adjacent wells on the same pad
  - Cement plug(s) additives will contain Class H cement, KCl, Dispersant, Anti-Foam, and Retarder.
  - Trip in hole with Drilling Bottom Hole Assembly
  - Dress/drill cement to proposed kick off point
  - Kick off and sidetrack well and directionally drill sidetrack well to original casing point
CEMENT ADDITIVES

The Water String blend will contain class A cement, 3% CaCl2, and flake.

The intermediate will contain class A cement, 10% CaCl2, Salt, and flake.

The Production cement will have a lead and tail cement.

The lead will contain class A cement, KCl, dispersant, suspension agent, and retarder.

The tail will contain class A cement, Calcium Carbonate, KCl, dispersant, de-foamer, suspension agent, and friction reducer.

Received
SEP 12 2014

Cement of Oil and Gas
WBY Department of Energy

01/09/2015
# Conner North 9H

## Casing & Cementing Details

<table>
<thead>
<tr>
<th>Casing Formation</th>
<th>Depth</th>
<th>Inclination</th>
<th>Hole Size</th>
<th>Cement</th>
<th>General Info</th>
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</thead>
<tbody>
<tr>
<td>30' Od Casing</td>
<td>65'</td>
<td>36°</td>
<td></td>
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</tr>
<tr>
<td>13.38' Od Casing</td>
<td>210'</td>
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<tr>
<td>Pittsburgh Coal</td>
<td>265'</td>
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<tr>
<td>Burgess (Big Inj)</td>
<td>2,172'</td>
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<tr>
<td>BtE Class for section</td>
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<tr>
<td>13-5/8&quot; Od Class III BOPE</td>
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<tr>
<td>Centralization</td>
<td></td>
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<td></td>
<td></td>
</tr>
<tr>
<td>* 2 Torq glider per ft from shoe to KOP</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>* 1 single bow per 2 ft from KOP to surface</td>
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<tr>
<td>Horizontal Landing Point</td>
<td>1,120'</td>
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<tr>
<td>Stb (Basil Marcellus)</td>
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<tr>
<td>Onondaga</td>
<td>15,164'</td>
<td></td>
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</tbody>
</table>

**Casing & Cementing Details**

- **Casing Formation:** Various formations indicated with depths and inclinations.
- **Hole Size:** Casing sizes are specified with depths.
- **Cement:** Descriptions of cement types and their properties are provided.
- **General Info:** Notes on minimum depths and surface conditions are included.

---

## Ground Level Elevation

- **1.222'**

---

**Received**

**SEP 12 2014**

**Office of Oil and Gas**

**WV Dept. of - 5 1/2 - June 24th, 2015**

**01/09/2015**
STATE OF WEST VIRGINIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION
OFFICE OF OIL AND GAS

FLUIDS/CUTTINGS DISPOSAL & RECLAMATION PLAN

Operator Name: Chevron Appalachia, LLC

Watershed (HUC 10) Middle Grave Creek - Grave Creek

Quadrangle: Businessburg, WV 7.5'

Elevation: 1220' County: Marshall

District: Clay

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:

Will a synthetic liner be used in the pit? Yes [ ] No [✓] If so, what ml?

Proposed Disposal Method For Treated Pit Wastes:

[ ] Land Application
[ ] Underground Injection (UIC Permit Number
[ ] Reuse (at API Number
[ ] Off Site Disposal (Supply form WW-9 for disposal location
[ ] Other (Explain

Will closed loop system be used? If so, describe

The drilling system will remove any cuttings from the drilling fluid. The cuttings are then prepared for transportation to an off-site disposal facility.

Drilling medium anticipated for this well (vertical and horizontal)? Air, freshwater, oil based, etc. Vertical on Air, Horizontal on Oil Based

-If oil based, what type? Synthetic, petroleum, etc. Synthetic

Additives to be used in drilling medium? Fluid loss control, emulsifier, and shale stabilizer

Drill cuttings disposal method? Leave in pit, landfill, removed offsite, etc. Removed Offsite

-If left in pit and plan to solidify what medium will be used? (cement, lime, sawdust) N/A

-If landfill or offsite name/permit number? Arden Landfill - Permit # PA DEP 100172

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 fines or imprisonment.

Received

Office of Oil & Gas

DEC 29 2014

Company Official Signature: Anna Shumaker
Company Official (Typed Name): Anna Shumaker
Company Official Title: Permitting Coordinator

Subscribed and sworn before me this 12 day of August, 2017

My commission expires 9/29/2017

COMMONWEALTH OF PENNSYLVANIA
NOTARIAL SEAL
THOMAS BASINGER
Notary Public
CONNELLSVILLE CITY, FAYETTE CNTY
My Commission Expires Sept 24, 2017

01/09/2015
Chevron Appalachia, LLC

Proposed Revegetation Treatment:  Acres Disturbed 16.0  Prevegetation pH 6.5-7.0

<table>
<thead>
<tr>
<th>Lime</th>
<th>Tons/acre or to correct to pH</th>
<th>6.5-7.0</th>
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<tbody>
<tr>
<td>Fertilizer type</td>
<td>10-20-20</td>
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<tr>
<td>Fertilizer amount</td>
<td>1,000 lbs/acre</td>
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<tr>
<td>Mulch</td>
<td>3 Tons/acre</td>
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Seed Mixtures

Temporary

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<tr>
<th>Seed Type</th>
<th>lbs/acre</th>
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<tbody>
<tr>
<td>Annual Ryegrass Mixture (Lolium Multiflorum) - 10 LB per acre</td>
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Permanent

<table>
<thead>
<tr>
<th>Seed Type</th>
<th>lbs/acre</th>
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<tbody>
<tr>
<td>Perennial Ryegrass Mixture (Lolium Perenne) - 10 lb per acre</td>
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</tr>
<tr>
<td>Creeping Red Fescue or Chewing Fescue - 10 lb per acre</td>
<td></td>
</tr>
<tr>
<td>Kentucky Bluegrass Mixture (POA Pretensis) - 10 lb per acre</td>
<td></td>
</tr>
</tbody>
</table>

Attach:
Drawing(s) of road, location, pit and proposed area for land application (unless engineered plans including this info have been provided)

Photocopied section of involved 7.5' topographic sheet.

Plan Approved by: James Wilcher

Comments:  

Title: Oil & Gas Inspector  Date: 8/19/14

Field Reviewed?  ( ) Yes  ( ) No
CHEVRON
APPALACHIA, LLC

West Virginia Well Site Safety Plan

Conner Site
Well 9H
Marshall County, West Virginia

Prepared in Conformance with:

West Virginia's Code §22-6A and Legislative Rule §35-8-5.7

and

West Virginia Department of Environmental Protection’s, Office of Oil and Gas documents:
“Well Site Safety Plan Standards” (issued August 25, 2011), and
“Deep Well Drilling Procedures and Site Safety Plan Requirements” (issued October 22, 2012)

\[ 8/19/14 \]

Revision 1

Original: September 2012
Revised: June 2013
Revised: May 2014
**CONNER**

**9H**

**PAGE 2 OF 2**

<table>
<thead>
<tr>
<th>SURFACE OWNER</th>
<th>DIST--TM/PAR</th>
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<tbody>
<tr>
<td>1 SARAH J. KNABENSUH ET AL</td>
<td>4-5/55</td>
</tr>
<tr>
<td>2 W VA DEPT OF HIGHWAYS</td>
<td>4-5/65</td>
</tr>
<tr>
<td>3 SARAH J. KNABENSUHET AL</td>
<td>4-5/56</td>
</tr>
<tr>
<td>4 ROBERT P. CARNAHAN ET UX</td>
<td>4-5/60.4</td>
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<tr>
<td>5 GEOFFREY ERIC HOWE</td>
<td>4-5/50</td>
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<tr>
<td>6 ETHEL FAYE HOWE</td>
<td>4-5/51.1</td>
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<td>7 TRACIE L. NELSON</td>
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<tr>
<td>8 GREGORY E. HOWE</td>
<td>4-5/62.2</td>
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<td>17 MARSHALL CO AIRPORT AUTHORITY</td>
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<tr>
<td>18 MARSHALL CO AIRPORT AUTHORITY</td>
<td>4-5/54.3</td>
</tr>
<tr>
<td>19 CHARLES W. JR. &amp; JUDY MERCER</td>
<td>4-8/16</td>
</tr>
<tr>
<td>20 HENRY W. &amp; LINDA M. ASTON - LIFE ESTATE</td>
<td>4-8/17</td>
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<tr>
<td>21 RICHARD E. LITMAN JR.</td>
<td>4-8/23.4</td>
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<tr>
<td>22 MABEL J. SHARON L. CARISS</td>
<td>4-8/23.5</td>
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</table>

**LESSOR**

A HOWARD BONAR CONNER ET AL
B HOWARD T. CONNER
SARAH J. KNABENSUH
MARY L. WHITTINGTON
C HOWARD BONAR CONNER ET AL
D KULL/MAGERS HEIRS
E KULL/MAGERS HEIRS
G KULL/MAGERS HEIRS
J KULL/MAGERS HEIRS
K KULL/MAGERS HEIRS
L KULL/MAGERS HEIRS
M KULL/MAGERS HEIRS
N KULL/MAGERS HEIRS
P MARY E. PERSINGER ET AL
Q BRADLEY C. RINE
R BRADLEY C. RINE
S LUCRETIA & ANTHONY JOHNSTON HEIRS
T MARY E. PERSINGER & ASSCONS
U MARY E. PERSINGER ET AL
W HENRY W. & LINDA M. ASTON
X RICHARD E. LITMAN JR. EXR
Y MABEL J. WILLIAMS

* — DENOTES PARCEL WITHIN 30 FEET OF PLANNED WEL BORE*

01/09/2015

**JULY 31, 2014**

[Image of Blue Mountain Inc.]