April 07, 2015

WELL WORK PERMIT
Horizontal 6A Well

This permit, API Well Number: 47-5101796, 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: TAYLOR B 6H
Farm Name: WILLIAMS OHIO VALLEY MIDS1
API Well Number: 47-5101796
Permit Type: Horizontal 6A Well
Date Issued: 04/07/2015

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 49449935 51 Clayton Glen Easton, WV
Operator ID County District Quadrangle

2) Operator's Well Number: 6H Well Pad Name: Taylor B

3) Farm Name/Surface Owner: Williams Ohio Valley Midstream LLC Public Road Access: CR 17 Fork Ridge Road

4) Elevation, current ground: 1222' Elevation, proposed post-construction: 1222'

5) Well Type (a) Gas Oil Underground Storage
(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, 6525', 49' - 0.64 psi/ft

8) Proposed Total Vertical Depth: 6533'

9) Formation at Total Vertical Depth: Marcellus

10) Proposed Total Measured Depth: 11,803'

11) Proposed Horizontal Leg Length: 140'

12) Approximate Fresh Water Strata Depths: 524' GL

13) Method to Determine Fresh Water Depths: 2 mi radius offset wells, freshwater wells, and freshwater base level

14) Approximate Saltwater Depths: 1855', 2345'-1820' KB: Francis 1V offset well

15) Approximate Coal Seam Depths: 765' GL

16) Approximate Depth to Possible Void (coal mine, karst, other): NA - Solid coal anticipated

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: __________________________
Depth: __________________________
Seam: __________________________
Owner: __________________________
## 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>New</td>
<td></td>
<td></td>
<td>40'</td>
<td>40'</td>
<td>141.8</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>600'</td>
<td>600'</td>
<td>691.0</td>
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<tr>
<td>Coal</td>
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<td></td>
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<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>2,240'</td>
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<td>Production</td>
<td>5-1/2&quot;</td>
<td>New</td>
<td>P-110</td>
<td>20#</td>
<td>11,803'</td>
<td>11,803'</td>
<td>2872.0</td>
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<td>Tubing</td>
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<td>Liners</td>
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## PACKERS

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<tr>
<td>Sizes:</td>
<td></td>
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<tr>
<td>Depths Set:</td>
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</tbody>
</table>

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**4705101796**

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**WV Department of Environmental Protection**

**04/10/2015**

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**WV-68 (9/13)**

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**Xu 10/15/14**

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**Received Office of Oil and Gas**

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**NOV 14 2014**
19) Describe proposed well work, including the drilling and plugging back of any pilot hole:

Drill 17-1/2" hole to 600 then run and cement 13-3/8" casing to surface covering the fresh water. Drill 12.25" hole to 2,240' then run and cement to surface 9 5/8" casing, covering the Big Injun. Drill 8 1/2" hole to KOP at 5,588. Drill 8 1/2" curve and lateral to 11,803' MD and 6,533 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 utilizing plug and perf method with 30 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): 18.3

22) Area to be disturbed for well pad only, less access road (acres): 4.3

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 jt from KOP to surface.

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

For the Water String the 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.
Cement Additives

Water String the 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.
## Taylor B 6H

**Marshall Co., WV**

**September 16, 2014**

### Casing & Cementing Details

<table>
<thead>
<tr>
<th>AZM</th>
<th>Casing Formation</th>
<th>DEPTH</th>
<th>Inclination</th>
<th>HOLE SIZE</th>
<th>CASING SPEC</th>
<th>CEMENT SPEC</th>
<th>GENERAL INFO</th>
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<tr>
<td></td>
<td></td>
<td>MD</td>
<td>TVD</td>
<td></td>
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<tr>
<td>3D</td>
<td>30.8&quot; Conductor</td>
<td>40&quot;</td>
<td>34°</td>
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<td></td>
<td>Bow Spring: 1-shoe &amp; 1-every 2nd 1 in ea 2-3 jts across previous shoe. Rigid: 2 within 100 ft of surface.</td>
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<tr>
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<td>Deepest Aquifer</td>
<td>503'</td>
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<td></td>
<td>13 3/8&quot; Casing</td>
<td>600'</td>
<td>17 1/2&quot;</td>
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<td>Basket Top Coal</td>
<td>759'</td>
<td>30°</td>
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<td>3D</td>
<td>Bow Spring: 1-shoe &amp; 1-every 2nd 1 in ea 2-3 jts across previous shoe. Rigid: 2 within 100 ft of surface.</td>
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<td>Annular 8 1/2&quot; BBD</td>
<td>1725'</td>
<td>18°</td>
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<td></td>
<td>Big Inj</td>
<td>1,934'</td>
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<td>3D</td>
<td>7 5/8&quot; Casing</td>
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<td>BOPE Class for section 13 5/8&quot; 10K Class III BOPE</td>
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<td>9,535'</td>
<td>6,508'</td>
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<tr>
<td></td>
<td>Middlesex</td>
<td>6,321'</td>
<td>6,291'</td>
<td>6,307'</td>
<td>6,291'</td>
<td>6,291'</td>
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<td></td>
<td>Burket Sh</td>
<td>6,727'</td>
<td>6,367'</td>
<td>6,357'</td>
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<td>Tully Lm</td>
<td>6,715'</td>
<td>6,367'</td>
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<td></td>
<td>S5 (Hamilton Sh)</td>
<td>6,808'</td>
<td>6,421'</td>
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<td>S4 (Upper Marcellus)</td>
<td>7,219'</td>
<td>6,501'</td>
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<tr>
<td></td>
<td>Stafford (Cherry Valley)</td>
<td>7,328'</td>
<td>6,518'</td>
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<td>32b (L. Marcellus)</td>
<td>7,179'</td>
<td>6,524'</td>
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<td></td>
<td>Centralization 2 Ton glider per jt from slv to KOP 1 single bow per 2 jt from KOP to surface</td>
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<td>Horizontal Landing Point 7,503' 6,533'</td>
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<td>6 in (Basal Marcellus)</td>
<td>6,552'</td>
<td>6,552'</td>
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<tr>
<td></td>
<td>Onondaga</td>
<td>6,640'</td>
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</tbody>
</table>

### Ground Level Elevation: 1235

Depth is measured from KB 15 ft above GL.

#### Cement to surface

**Class A** 7 1/2" 11.5 lb/gal, bent & bake

- **Yield:** 15.5 cf/lb
- **Weight:** 13.5 lb/gal
- **Capacity:** 0.1025 bbl

#### Cement to surface

**Class A** 7 1/2" 11.5 lb/gal, bent & bake

- **Yield:** 15.5 cf/lb
- **Weight:** 13.5 lb/gal

- **Collapse:** 150 psi
- **Flash Set:** 10 days
- **20° above Upper Marcellus to KOP plus 6% in open hole**

### RECEIVED

Office of Oil and Gas

**NOV 14 2014**

**WV Department of Environmental Protection**

04/10/2015
STATE OF WEST VIRGINIA  
DEPARTMENT OF ENVIRONMENTAL PROTECTION   
OFFICE OF OIL AND GAS   
FLUIDS/CUTTINGS DISPOSAL & RECLAMATION PLAN   

Operator Name: Chevron Appalachia, LLC  
OP Code: 49449935  

Watershed (HUC 10): Middle Grave Creek - Grave Creek Quadrangle  
County: Marshall  
District: Clay  
Elevation: 1257'  

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:   

Drilling medium anticipated for this well (vertical and horizontal)? Air, freshwater, oil based, etc.  [ ] oil based  

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

Additives to be used in drilling medium? Barite, fluid loss, emulsifiers, rheological control  

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  

-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 fine or imprisonment. 

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

Subscribed and sworn before me this 1 day of October, 2017 by Anna Shumaker. 
Notary Public  
COMMONWEALTH OF PENNSYLVANIA  
NOTARIAL SEAL  
THOMAS BASINGER  
Notary Public  
CONNELLSVILLE CITY, FAYETTE CNTY  
My Commission Expires Sep 24, 2017  

04/10/2015
Chevron Appalachia, LLC

Proposed Revegetation Treatment: Acres Disturbed _____________ Prevegetation pH _____________

Lime _____________ Tons/acre or to correct to pH _____________

Fertilizer type _____________

Fertilizer amount _____________ lbs/acre

Mulch _____________ Tons/acre

Seed Mixtures

<table>
<thead>
<tr>
<th>Seed Type</th>
<th>lbs/acre</th>
<th>Seed Type</th>
<th>lbs/acre</th>
</tr>
</thead>
<tbody>
<tr>
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<td>170</td>
<td>Birdsfoot Trefoil</td>
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<tr>
<td>Plant</td>
<td>8/15 - 2/28</td>
<td>Weeping Lovegrass</td>
<td>45</td>
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<td></td>
<td></td>
<td>Perennial Ryegrass</td>
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<tr>
<td></td>
<td></td>
<td>Plant 3/1 - 6/15</td>
<td>8/15 - 9/15</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: 

Comments:

Field Reviewed? ( ) Yes ( ) No

Title: Oil & Gas Inspector

Date: 10/15/14

WV Department of Environmental Protection

Received by Office of Oil and Gas

NOV 14 2014

04/10/2015
West Virginia Well Site Safety Plan

Taylor B Site
Well 6H
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)

Revision 1

Original: September 2012
Revised: June 2013
Revised: May 2014
FILE #: TAYLOR B 6H
DRAWING #: TAYLOR B 6H
SCALE: 1" = 2000'
MINIMUM DEGREE OF ACCURACY: 1/2500
PROVEN SOURCE OF ELEVATION: U.S.G.S. MONUMENT THOMAS 1498.81'

(+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS

OFFICE OF OIL & GAS
601 57TH STREET
CHARLESTON, WV 25304

Well Type: Oil Waste Disposal Production Deep
Gas Liquid Injection Storage Shallow

WATERSHED: MIDDLE CRAB CREEK - CRAB CREEK
COUNTY/DISTRICT: MARSHALL / CLAY

SURFACE OWNER: WILLIAMS OIL VALLEY MIDSTREAM LLC

OIL & GAS ROYALTY OWNER: LEE R. & SHERL. TAYLOR

DRILL CONVERT DRILL DEEPER REDRILL FRACTURE OR STIMULATE
PLUG OLD FORMATION PERFORATE NEW FORMATION PLUG & ABANDON
CLEAN OUT & REPLUG OTHER CHANGE SPECIFY:

TARGET FORMATION: MARCELUS

ESTIMATED DEPTH: TD: 6,533' TD: 11,815.4'
**TAYLOR B**

**6H**

**PAGE 2 OF 2**

<table>
<thead>
<tr>
<th>SURFACE OWNER</th>
<th>DIST-TM/PAR</th>
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<tbody>
<tr>
<td>1 WILLIAMS OHIO VALLEY MIDSTREAM LLC</td>
<td>4-10/20</td>
</tr>
<tr>
<td>2 JAMES D. RULONG</td>
<td>4-9/20</td>
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<tr>
<td>3 LEE R. TAYLOR ET UX</td>
<td>4-10/21</td>
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<td>4 KENNETH L. MCCRACKEN ET UX</td>
<td>4-9/23.5</td>
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<td>5 WILLIAM R. STANDIFORD ET UX</td>
<td>4-9/23.3</td>
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<td>6 DONALD E. VAN SCYOC ET UX</td>
<td>4-9/23.2</td>
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<td>7 WILLIAMS OHIO VALLEY MIDSTREAM</td>
<td>4-9/25</td>
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<tr>
<td>8 WILLIAM R. STANDIFORD ET UX</td>
<td>4-9/5.1</td>
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<tr>
<td>9 RONALD A. HILL</td>
<td>4-9/5</td>
</tr>
</tbody>
</table>

**LEESOR**

| A | LEE R. & SHERRI L. TAYLOR |
| B | CLARENCE RULONG |
| C | LEE R. & SHERRI L. TAYLOR |
| D | KENNETH L. & SHIRLEY J. MCCRACKEN |
| E | WILLIAM ROGER STANDIFORD |
| F | DONALD E. VAN SCYOC |
| G | DONALD E. VAN SCYOC |
| H | WILLIAM ROGER STANDIFORD |
| J | RONALD A. HILL, ET AL |

**SURFACE RUT (UOM 700 FT)**

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<tr>
<th>UTM 17-NA0830</th>
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<th>E526668.56</th>
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**APPROX. LOCATING POINT**

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<tr>
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**ROTTEN RUT (UOM 700 FT)**

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<td>LAT:39.860353</td>
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<tr>
<td>04/10/2015</td>
<td></td>
<td></td>
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**SEPTMBER 25, 2014**

**47° 51' 01.96"**

**04/10/2015**
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:

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

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: Chevron Appalachia, LLC
By: [Signature]
Its: Permitting Team Lead
<table>
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<tr>
<th>Parcel</th>
<th>Lessor</th>
<th>Lessee</th>
<th>Royalty</th>
<th>DB/PG</th>
<th>ASSIGNMENT 1</th>
<th>ASSIGNMENT 2</th>
<th>ASSIGNMENT 3</th>
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<tr>
<td>B</td>
<td>Rulong, Clarence</td>
<td>TriEnergy, Inc.</td>
<td>12.5%</td>
<td>661/450</td>
<td>BK20/PG252--</td>
<td>BK2A/PG319--</td>
<td>BK25/1--Chief</td>
</tr>
<tr>
<td>B</td>
<td>Rulong, Clarence</td>
<td>Chevron U.S.A., INC.</td>
<td>14%</td>
<td>796/177</td>
<td>N/A</td>
<td>N/A</td>
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<tr>
<td>D</td>
<td>McCracken, Kenneth L. &amp; Shirley J.</td>
<td>TriEnergy Holdings, LLC</td>
<td>16%</td>
<td>706/640</td>
<td>BK24/PG180--</td>
<td>BK2A/PG466--</td>
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<td>E, H</td>
<td>Standiford, William Roger</td>
<td>TriEnergy, Inc.</td>
<td>12.5%</td>
<td>748/250</td>
<td>BK20/PG252--</td>
<td>BK2A/PG462--</td>
<td>BK25/1--Chief</td>
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<tr>
<td>G</td>
<td>Van Scyoc, Donald E., et al</td>
<td>Chevron U.S.A., INC.</td>
<td>16%</td>
<td>820/276</td>
<td>N/A</td>
<td>N/A</td>
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<tr>
<td>J</td>
<td>Hill, Ronald A. et al</td>
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<td>BK25/1--Chief</td>
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</table>
ASSIGNMENT AND BILL OF SALE

STATE OF WEST VIRGINIA

COUNTY OF MARSHALL

THIS ASSIGNMENT AND BILL OF SALE (this “Assignment”) is made by and among Chief Exploration & Development LLC, a Texas limited liability company, having an office at 5956 Sherry Lane, Suite 1500, Dallas, Texas 75225, Chief Oil & Gas LLC, a Texas limited liability company, having an office at 5956 Sherry Lane, Suite 1500, Dallas, TX 75225, (jointly “Chief”), Radler 2000 Limited Partnership, a Texas limited partnership, having an office at 3131 West 7th Street, 4th Floor, Fort Worth, TX 76117 (“Radler”) and together with Chief “Chief/Radler”), and Enerplus Resources (USA) Corporation, a Delaware corporation, having an office at US Bank Tower, 950 17th Street, Denver, Colorado 80202-2805 (“Enerplus” and together with Chief/Radler, “Assignors”), and Chevron U.S.A. Inc., a Pennsylvania corporation, having an office at Westpointe Corporate Center One, 1550 Conoplis Heights Road, Moon Township, PA 15108 ("Assignee"). Hereinafter, each of Assignors and Assignee are referred to as a “Party” and collectively as the “Parties”.

ARTICLE I
ASSIGNMENT OF INTEREST

1.1 Assignment. For and in consideration of Ten Dollars ($10.00) and other good and valuable consideration, including (a) as to Chief/Radler and Assignee, the mutual covenants and agreements described in that certain unrecorded Purchase and Sale Agreement dated May 3, 2011, by and among Chief/Radler, as sellers, and Assignee, as buyer (the “Chief/Radler Purchase Agreement”) and (b) as to Enerplus and Assignee, the mutual covenants and agreements described in that certain unrecorded Purchase and Sale Agreement dated June 14, 2011, by and between Enerplus, as seller, and Assignee, as buyer (the “Enerplus Purchase Agreement”) and together with the Chief/Radler Purchase Agreement, the “Purchase Agreements”), the receipt and sufficiency of which is hereby acknowledged by Assignors, Assignors do hereby GRANT, BY AGAIN, SELL, CONVEY, ASSIGN, TRANSFER, and SET OVER unto Assignee, effective as of the Effective Date (as defined below), subject to the exceptions, reservations, terms and conditions herein contained, all of Assignors’ rights, title and interest in and to the following assets (collectively, the “Subject Properties”):

(a) All of the oil, gas or mineral leases described on Exhibit A attached hereto, and any ratification thereof and amendments thereof, whether or not same are described thereon (the “Leases”);

(b) All of the wells described on Exhibit B attached hereto (the “Wells”) together with all oil, gas, other liquid or gaseous hydrocarbons, or any of them or any combination thereof, and all products extracted, separated, processed and produced therefrom (“Hydrocarbons”);

(c) All presently existing and valid, oil, gas or mineral unitization, pooling, and/or communization agreements, declarations and/or orders, and Assignor’s interests in and to the properties covered or the units created thereby to the extent attributable to the Leases (collectively the “Units”);

(d) All presently existing and valid operating agreements, production sales contracts, and other agreements and contracts, including, but not limited to those listed on Exhibit C attached hereto to the extent that they relate to any of the Leases, Wells, or Units (the “Contracts”);

(e) All materials, supplies, machinery, equipment, improvements and other personal property and fixtures, including, but not limited to, all wellhead equipment, pumping units, wellsite facilities, tanks, buildings, injection facilities, saltwater disposal...
facilities, compression facilities, and other equipment) to the extent that they relate to any of the Leases, Wells, or Units and are used in connection with the exploration, development, operation or maintenance thereof;

(f) To the extent transferable, all permits, rights-of-way, easements, servitudes, licenses, franchises and other estates and similar rights and privileges related to or used solely in connection with the Subject Properties;

(g) To the extent transferable, all contracts, agreements, and other similar rights related to water rights or water sources used in connection with the Subject Properties; and

(h) All files, records, documentation and data of Assignors or their Affiliates that relate to the Subject Properties, including any correspondence, information and reports (including petroleum engineering, reservoir engineering, drilling, geological, geophysical and all other kinds of technical data and samples, well-logs, and analyses in whatever form) lease files, land files, well files, division order files, environmental assessments, safety record-keeping, governmental filings, production reports, production logs, core materials and core sample reports and maps, and all accounting files, books, records, files, title opinions, title abstracts, title reports, reports and similar documents and materials of, but not including any (1) files, records, documentation or data that Assignors may not sell, transfer, or otherwise dispose of as a result of confidentiality obligations by which it is bound or which cannot be provided to Assignee because such transfer is prohibited by the agreement under which it was acquired; or (2) any corporate, financial, and tax records of Assignors.

The Subject Properties do not include, and there is hereby expressly excepted and excluded therefrom and reserved all Excluded Properties.

TO HAVE AND TO HOLD the Subject Properties unto Assignee and its successors and assigns forever.

ARTICLE II
WARRANTY

Section 2.1. AS TO THE SUBJECT PROPERTIES ASSIGNED HEREUNDER BY CHIEF/RADLER, PURSUANT TO THE CHIEF/RADLER PURCHASE AGREEMENT, SUBJECT TO ALL PERMITTED ENCUMBRANCES (AS DEFINED IN THE CHIEF/RADLER PURCHASE AGREEMENT), CHIEF/RADLER AGREES TO WARRANT AND FOREVER DEFEND TITLE TO SUCH SUBJECT PROPERTIES UNTO ASSIGNEE, AND ITS SUCCESSORS AND ASSIGNS, AGAINST THE CLAIMS AND DEMANDS OF ALL PERSONS CLAIMING, OR TO CLAIM THE SAME, OR ANY PART THEREOF, BY, THROUGH OR UNDER CHIEF/RADLER, BUT NOT OTHERWISE.

Section 2.2. AS TO THE SUBJECT PROPERTIES ASSIGNED HEREUNDER BY ENERPLUS, PURSUANT TO THE ENERPLUS PURCHASE AGREEMENT, SUBJECT TO ALL PERMITTED ENCUMBRANCES (AS DEFINED IN THE ENERPLUS PURCHASE AGREEMENT), ENERPLUS AGREES TO WARRANT AND FOREVER DEFEND TITLE TO SUCH SUBJECT PROPERTIES UNTO ASSIGNEE, AND ITS SUCCESSORS AND ASSIGNS, AGAINST THE CLAIMS AND DEMANDS OF ALL PERSONS CLAIMING, OR TO CLAIM THE SAME, OR ANY PART THEREOF, BY, THROUGH OR UNDER ENERPLUS, BUT NOT OTHERWISE.

ARTICLE III
DISCLAIMERS

OTHER THAN THOSE REPRESENTATIONS AND WARRANTIES EXPRESSLY SET OUT IN PURCHASE AGREEMENTS AND THIS ASSIGNMENT, ASSIGNORS HEREBY EXPRESSLY DISCLAIM ANY AND ALL REPRESENTATIONS OR WARRANTIES WITH RESPECT TO THE SUBJECT PROPERTIES OR THE TRANSACTION CONTEMPLATED HEREBY, AND ASSIGNEE AGREES THAT THE SUBJECT PROPERTIES ARE BEING SOLD BY ASSIGNORS "WHERE IS," "AS IS," AND "WITH ALL FAULTS," SPECIFICALLY AS PART OF (BUT NOT IN LIMITATION OF) THE FOREGOING, ASSIGNEE ACKNOWLEDGES THAT, OTHER THAN THOSE REPRESENTATIONS AND WARRANTIES EXPRESSLY SET OUT IN
THE PURCHASE AGREEMENTS AND THIS ASSIGNMENT, ASSIGNORS HAVE NOT MADE, AND ASSIGNORS HEREBY EXPRESSLY DISCLAIM, ANY REPRESENTATION OR WARRANTY (EXPRESS, IMPLIED, UNDER COMMON LAW, BY STATUTE OR OTHERWISE) AS TO THE CONDITION OF THE SUBJECT PROPERTIES (INCLUDING, WITHOUT LIMITATION, ASSIGNORS DISCLAIM ANY IMPLIED OR EXPRESS WARRANTY OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE, OR CONFORMITY TO MODELS OR SAMPLES OF MATERIALS).

ARTICLE IV
MISCELLANEOUS

4.1 Purchase Agreements. As to the Subject Properties assigned hereunder by Chief/Radler, this Assignment is made subject to the terms and conditions of the Chief/Radler Purchase Agreement, which is incorporated herein by reference for all purposes, as to such Subject Properties. As to the Subject Properties assigned hereunder by Enerplus, this Assignment is made subject to the terms and conditions of the Enerplus Purchase Agreement, which is incorporated herein by reference for all purposes, as to such Subject Properties. The Purchase Agreements contain certain representations, warranties and agreements between the Parties, which shall survive the delivery of this Assignment, as provided for therein. In the event of conflict or other inconsistency between this Assignment and the Purchase Agreements, the Purchase Agreements, as applicable, will control. Capitalized terms used in this Assignment and otherwise not defined shall have the meanings set forth in the Purchase Agreements. Notwithstanding anything herein to the contrary, (a) the rights and obligations of each Assignor hereunder are several and not joint, and several, (b) Enerplus shall have no rights or obligations as a result of the execution and delivery of this Assignment by Enerplus (i) for any breach of this Assignment by Chief or Radler or (ii) under the Chief/Radler Purchase Agreement and (c) neither Chief nor Radler shall have any rights or obligations as a result of the execution and delivery of this Assignment by either Chief or Radler (i) for any breach of this Assignment by Enerplus or (ii) under the Enerplus Purchase Agreement.

4.2 Exhibits. The Exhibits attached hereto are incorporated herein by reference for all purposes, and references to this Assignment shall also include such Exhibits unless the context in which used shall otherwise require.

4.3 Binding Effect. This Assignment shall bind and inure to the benefit of Assignors and Assignee and their respective successors, assigns and legal representatives.

4.4 Counterparts; Recording. This Assignment may be executed in any number of counterparts, each of which shall be of equal dignity and all of which shall constitute but one and the same instrument. To facilitate recordation or filing of this Assignment, each counterpart filed with a county or state agency or office may contain only those portions of the Exhibits to this Assignment that describe property under the jurisdiction of that agency or office. A complete copy of this Assignment has been filed and recorded in Marshall County, West Virginia.

[Signature Pages Follow]
IN WITNESS WHEREOF, each of the parties hereto has executed this Assignment to be effective as of 7:00 a.m. local time of the location of the Subject Properties on July 1, 2010 (the "Effective Date").

ASSIGNORS:

Chief Exploration & Development LLC
By: [Signature]
Name: Glynne Mildren
Title: Senior Vice President - Land

Chief Oil & Gas LLC
By: [Signature]
Name: Glynne Mildren
Title: Senior Vice President - Land

Radler 2000 Limited Partnership
By: Tug Hill, Inc., its General Partner
By: [Signature]
Name: Michael G. Radler
Title: President

Enerplus Resources (USA) Corporation
By: [Signature]
Name: Roxanne Forst
Title: Attorney-in-Fact
ASSIGNEE:
Chevron U.S.A. Inc.

By: [Signature]
Name: Ann Wacker
Title: Assistant Secretary
STATE OF TEXAS §
COUNTY OF DALLAS §

On this, the 23rd day of June, 2011, before me, the undersigned officer, personally appeared Glynne Mildren, who acknowledged himself to be the Senior Vice President - Land of Chief Exploration & Development LLC and that he as such officer, being authorized to do so, executed the foregoing instrument for the purposes therein contained, by signing the name of the limited liability company by him as said officer.

In Witness Whereof, I hereunto set my hand and official seal.

(Notarial Seal) [Signature]
My Commission expires: ____________

STATE OF TEXAS §
COUNTY OF DALLAS §

On this, the 23rd day of June, 2011, before me, the undersigned officer, personally appeared Glynne Mildren, who acknowledged himself to be the Senior Vice President - Land of Chief Oil & Gas LLC, and that he as such officer, being authorized to do so, executed the foregoing instrument for the purposes therein contained, by signing the name of the limited liability company by him as said officer.

In Witness Whereof, I hereunto set my hand and official seal.

(Notarial Seal) [Signature]
My Commission expires: ____________
STATE OF TEXAS §
COUNTY OF DALLAS §

On this, the 23rd day of June, 2011, before me, the undersigned officer, personally appeared Michael G. Radler, who acknowledged himself to be the President of Tug Hill, Inc., the General Partner of Radler 2000 Limited Partnership, and that he as such officer, being authorized to do so, executed the foregoing instrument for the purposes therein contained, by signing on behalf of the corporation by him as said officer.

In Witness Whereof, I hereunto set my hand and official seal.

(Notarial Seal) My Commission expires: ___________

STATE OF TEXAS §
COUNTY OF DALLAS §

On this, the 23rd day of June, 2011, before me, the undersigned officer, personally appeared Roxanne Forst, known to me to be the person whose name is subscribed as attorney-in-fact for Enerplus Resources (USA) Corporation, and acknowledged that she executed the same as the act of her principal for the purposes therein contained.

In Witness Whereof, I hereunto set my hand and official seal.

(Notarial Seal) My Commission expires: ___________
STATE OF TEXAS

COUNTY OF DALLAS

On this, the 24th day of June, 2011, before me, the undersigned officer, personally appeared Ann Wacker, who acknowledged herself to be the Assistant Secretary of Chevron U.S.A. Inc., and that she as such officer, being authorized to do so, executed the foregoing instrument for the purposes therefor contained, by signing the name of the corporation by her as said officer.

In Witness Whereof, I hereunto set my hand and official seal.

(Notarial Seal)

My Commission expires: ____________________

COREY J. MEISTER
Notary Public, State of Texas
My Commission Expires
July 17, 2014

Jan Pase
MARSHALL County 09:06:51 AM
Instrument No 1306157
Date Recorded 07/21/2011
Document Type 494
Pages Recorded 104
Book-Page 25-1
Recording Fee $104.00
Additional $16.00
Exhibit "C" (Contracts)

Attached to and made a part of the main Agreement and Bill of Sale made by and among Chief Exploration & Development LLC, Chief Oil & Gas LLC, jointly ("Chief"), Radnor 2000 Limited Partnership, ("Radnor" and together with Chief, "Chiefrader"), and Enepus Resources (USA) Corporation, ("Enepus" and together with Chief and Radnor, "Assignor"), and Chevron U.S.A. Inc., Multiple Counties, State of West Virginia.

<table>
<thead>
<tr>
<th>CONTRACT#</th>
<th>DESCRIPTION</th>
<th>CONTRACT DUE DATE</th>
<th>ALL PARTIES</th>
<th>CONTRACT NAME</th>
<th>COUNTY</th>
<th>STATE</th>
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<tr>
<td>NECES-056</td>
<td>Impoundment/ frac pit agmt.</td>
<td>01/14/11</td>
<td>Grimm Lumber, Inc. and Elmer C. Grimm, Jr., and Mary Ann Grimm, husband and wife, Grantor, Chief Exploration &amp; Development LLC, Grantee, Chief Oil &amp; Gas LLC, Operator</td>
<td>Surface Lease (FWIS) - Grimm Lumber, Inc.</td>
<td>PRESTON</td>
<td>WV</td>
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<tr>
<td>NECES-067</td>
<td>Impoundment/ frac pit agmt.</td>
<td>02/24/11</td>
<td>Kern &amp; W. Chidester and Helen L. Chidester, husband and wife, Grantor, Chief Exploration &amp; Development LLC, Grantee, Chief Oil &amp; Gas LLC, Operator</td>
<td>Surface Lease (Fresh Water impoundment Site - Kenneth W. Chidester, et al)</td>
<td>PRESTON</td>
<td>WV</td>
</tr>
<tr>
<td></td>
<td>Assignment and Assumption of Agreement</td>
<td>02/01/11</td>
<td>Chief Gathering, LLC</td>
<td>Agreement for Certain to transfer all rights under the May 1, 2009 Appalachian Gas Gathering Agreement to Chief Gathering limited to the Grimm Lease</td>
<td>PRESTON</td>
<td>WV</td>
</tr>
<tr>
<td>LEGAL-0522</td>
<td>Seismic Agreement</td>
<td></td>
<td>Chief Oil &amp; Gas LLC, Lessee</td>
<td>Marathon Oil Company, Licensee</td>
<td>PRESTON</td>
<td>FAYETTE</td>
</tr>
</tbody>
</table>

STATE OF WEST VIRGINIA, MARSHALL COUNTY, S.C.T.:  

I, IAN PEEL, Clerk of the County Commission of said County, do hereby certify that the above writing, bearing date on the 60th day of July, 2015, was presented for and by me, admitted to record in my office upon the above certificate as to the parties thereto named this 26th day of July, 2015.  

TESTE:  

Clerk.
State of West Virginia

Certificate

I, Betty Ireland, Secretary of State of the State of West Virginia, hereby certify that

the attached true and exact copy of the Articles of Amendment to the Articles of Organization of GREAT LAKES ENERGY PARTNERS, LLC.

are filed in my office, signed and verified, as required by the provisions of West Virginia Code §31B-2-204 and conform to law. Therefore, I issue this

CERTIFICATE OF AMENDMENT TO THE CERTIFICATE OF AUTHORITY

changing the name of the limited liability company to RANGE RESOURCES - APPALACHIA, LLC

Given under my hand and the Great Seal of the State of West Virginia on this day of September 12, 2007

Secretary of State

04/10/2015

HARRIET SMITH WINDSOR
Secretary of State

AUTHENTICATION: 5970176
DATE: 08-31-07

3085850 8100
070977461
STATE OF DELAWARE
CERTIFICATE OF AMENDMENT

1. Name of Limited Liability Company:
   Great Lakes Energy Partners, L.L.C.

2. The Certificate of Formation of the limited liability company is hereby amended as follows:
   The name of the Company is Range Resources – Appalachia, LLC

IN WITNESS WHEREOF, the undersigned have executed this Certificate on the 29th day of August, A.D. 2007.

By: ________________________________
   Name: Jeffrey A. Byrum, Sr. VP
   Print or Type
STATE OF WEST VIRGINIA, MARSHALL COUNTY, S.C.:

I, JAN PEET, Clerk of the County Commission of said County, do hereby certify that the annexed writing, bearing date on the 29th day of September, 2007, was presented for and by me, admitted to record in my office upon the above certificate as to the parties therein named this day of October, 2007, at 11:42 A.M.

TESTE: ___________________________ Clerk.
ASSIGNMENT OF OIL AND GAS LEASES

This Assignment of Oil and Gas Leases (the "Assignment") is from AB RESOURCES LLC and NPAR, LLC, both of which are Delaware limited liability companies, and whose addresses are 6802 W. Snowville Road, Suite E, Brecksville, Ohio 44141 (collectively referred to as "Assignor") to CHIEF EXPLORATION & DEVELOPMENT LLC, a Texas limited liability company, whose address is 5956 Sherry Lane, Suite 1500, Dallas, Texas, and RADLER 2000 LIMITED PARTNERSHIP, a Texas limited partnership, whose address is 3131 W. Seventh Street, Suite 400, Fort Worth, Texas 76107 (referred to jointly as "Assignee").

For adequate consideration the receipt of which is acknowledged, Assignor, subject to the terms and provisions herein contained as well as the reservations herein after set forth, does hereby grant, sell, assign and convey unto Assignee, its successors and assigns, an undivided fifty percent (50%) working interest in, to and under the Oil and Gas Leases identified on Exhibit "A" attached to and made a part hereof covering the lands described on Exhibit "A".

For purposes of this Assignment (a) the Oil and Gas Leases described on Exhibit "A" are referred to as the "Leases", (b) the lands covered by the Leases are referred to as the "Lands", and (c) the undivided fifty percent (50%) working interest in, to and under the Leases and the Lands assigned and conveyed by Assignor to Assignee pursuant to this Assignment hereinafter collectively are referred to as the "Assigned Interests".

This Assignment is made expressly subject to the following:

1. The Assigned Interests will be subject to (i) the royalty interest as provided in the Leases and any recorded assignment of the Leases to Assignor, and (ii) all of the terms, conditions and provisions set forth in the Leases and/or such assignment of the Leases to Assignor.

2. The Assigned Interests will be subject to that certain Operating Agreement (the "Agreement") that was part of and associated with that certain Participation Agreement dated November 29, 2007 between AB Resources LLC and Chief Exploration & Development LLC, the Participation Agreement having since terminated. All the terms and provisions of the Agreement are fully incorporated herein by reference.

3. Assignor warrants the title to the Assigned Interests unto Assignee, its successors and assigns, against all adverse claims arising by, through and under Assignor, but not otherwise. EXCEPT AS PROVIDED IN THE PRECEDING SENTENCE AND EXCEPT AS PROVIDED IN THE UNRECORDED AGREEMENT, THIS ASSIGNMENT IS WITHOUT WARRANTY, EXPRESS, IMPLIED, OR STATUTORY, WHATSOEVER.

Jan Pest
8983961, County 12:40:33 PM
Instrument No 1546382
Date Recorded 06/27/2011
Document Type ASP
Pages Recorded 24
Book-Page 24-466
Recording Fee 404.00
Additional 48.00

04/10/2015
4. The Assigned Interests herein are assigned and conveyed to and are owned by Assignees in the following undivided proportions:

   Chief Exploration & Development LLC  80%
   Radler 2000 Limited Partnership      20%

5. Save and except the Assigned Interests, all other rights, titles and interests owned by Assignor in, to and under the Leases and the Lands are expressly reserved by Assignor and are not herein conveyed or assigned to Assignee.

   The terms, covenants and conditions hereof shall be binding upon and shall inure to the benefit of Assignor and Assignee and their respective successors and assigns; and such terms, covenants and conditions shall be covenants running with the Assigned Interests, and with each subsequent transfer or assignment thereof.

   This Assignment is executed by Assignor on the date indicated in its acknowledgment included herewith.

   AB RESOURCES LLC, ASSIGNOR
   By: ___________________________
      Gordon O. Yonel
      Its: Chief Executive Officer

   AB LEGAL
   CTS 6/14/14

   NPAR, LLC. ASSIGNOR
   By: ___________________________
      Gordon O. Yonel
      Its: Chief Executive Officer

   AB LEGAL
   CTS 6/16/14

04/10/2015
ASSIGNEES

CHIEF EXPLORATION & DEVELOPMENT LLC
By: 
Ida L. Rhoades
Its: Senior Vice President Land

RADLER 2000 LIMITED PARTNERSHIP
By: 
Michael E. Radler
Its: President of Teaberry, Inc.

ACKNOWLEDGMENTS

State of Ohio
County of Cuyahoga

On this 11th day of June 2011, personally appeared Gordon O. Yonel, Chief Executive Officer of AB Resources LLC, to me personally known, who, being by me duly sworn, did say that he has executed the foregoing document for the purposes described herein for and on behalf of such limited liability company.

WITNESS MY HAND AND SEAL this 11th day of June 2011.

My Commission Expires:

11.9.13

PATRICIA A. GILL
NOTARY PUBLIC
STATE OF OHIO
STARK COUNTY
My Comm. Expires
November 9, 2013

Patricia A. Cline
Notary Public
State of Ohio )
County of Cuyahoga ) ss:

On this 6th day of June 2011, personally appeared Gordon O. Yonel, Chief Executive Officer of NPAR, LLC, to me personally known, who, being by me duly sworn, did say that he has executed the foregoing document for the purposes described herein for and on behalf of such limited liability company.

WITNESS MY HAND AND SEAL this 6th day of June 2011.

My Commission Expires November 9, 2013

Patricia A. Gill

Notary Public

State of Texas )
County of Dallas ) ss:

On this 22nd day of June 2011, personally appeared Glynnie Milde, the Sr. VP-Lead of Chief Exploration & Development LLC, to me personally known, who, being by me duly sworn, did say that she has executed the foregoing document for the purposes described herein for and on behalf of such limited liability company.

WITNESS MY HAND AND SEAL this 22nd day of June 2011.

My Commission Expires July 01, 2013

Notary Public
State of Texas
County of Dallas

On this 24th day of June 2011, personally appeared Michael C. Radler, the General Partner of Radler 2000 Limited Partnership, to me personally known, who, being by me duly sworn, did say that he has executed the foregoing document for the purposes described herein for and on behalf of such limited partnership.

WITNESS MY HAND AND SEAL this 24th day of June 2011.

My Commission Expires:

Notary Public

PREPARED BY:
AB RESOURCES LLC

AFTER RECORDING RETURN TO:
AB RESOURCES LLC
6802 W. Snowville Rd., Suite E
Brecksville, OH 44141
PH 440.922.1250
January 6, 2015

West Virginia D.E.P.
Office of Oil & Gas
601 57th Street SE
Charleston, WV 25304-2345

To Whom It May Concern:

Please be advised that Chevron Appalachia, LLC and Chevron U.S.A. Inc. are affiliated entities. Unless and until revoked, and as evidenced by the signatures of authorized representatives of each entity below, Chevron Appalachia, LLC is authorized to operate assets owned by Chevron U.S.A. Inc. which are located in West Virginia, including oil and gas leases. More particularly, Chevron Appalachia, LLC is authorized to obtain well work permits for assets owned by Chevron U.S.A. Inc. I trust that this will alleviate any concerns the Department may have about Chevron Appalachia, LLC applying for well work permit applications on properties either leased or owned by Chevron U.S.A. Inc. If you have any further questions or concerns, please do not hesitate to contact me.

Braden Welmer
Attorney-In-Fact for Chevron Appalachia, LLC

Marc Tate
Attorney-In-Fact for Chevron Appalachia, LLC

RECEIVED
Office of Oil and Gas
FEB 27 2015
WV Department of Environmental Protection
West Virginia D.E.P.
Office of Oil & Gas
601 57th Street SE
Charleston, WV 25304-2345

November 6, 2014

RE: Taylor B #2H, 3H, 4H, 5H, 6H, 7H, 8H, 9H

To whom it may concern,

This letter is to confirm that Chevron Appalachia, LLC owns the rights to access minerals under any road along the above referenced laterals. If you should have any further questions or need additional documentation, please feel free to contact me.

Sincerely,

[Signature]

Ian J. Durham
Land Representative
Horizontal Natural Gas Well Work Permit
Application Notice By Publication

Notice is hereby given:
Pursuant to West Virginia Code 22-6A-10(e) prior to filing an application for a permit for a horizontal well the applicant shall publish in the county in which the well is located or is proposed to be located a Class II legal advertisement.

Paper: Moundsville Daily Echo

Public Notice Date: 10/10/14 10/17/14

The following applicant intends to apply for a horizontal natural well work permit which disturbs three acres or more of surface excluding pipelines, gathering lines and roads or utilizes more than two hundred ten thousand gallons of water in any thirty day period.

Applicant: Chevron Appalachia, LLC

Address: 800 Mountain View Drive, Smithfield, PA 15478

Well Number: Taylor B 2H, 3H, 4H, 6H, 7H, 8H, 9H

Business Conducted: Natural gas production.

Location –

State: West Virginia

County: Marshall

District: Clay

Quadrangle: Glen Easton, WV 7.5' x

UTM Coordinate NAD83 Northing: please see attached for a full list of wells and coordinates

UTM coordinate NAD83 Easting: please see attached for a full list of wells and coordinates

Watershed: Middle Grave Creek - Grave Creek

Coordinate Conversion:
To convert the coordinates above into longitude and latitude, visit: http://tagis.dep.wv.gov/convert/llutm_conus.php

Electronic notification:
To receive an email when applications have been received or issued by the Office of Oil and Gas, visit http://www.dep.wv.gov/insidedep/Pages/DEPMailingLists.aspx to sign up.

Reviewing Applications:
Copies of the proposed permit application may be reviewed at the WV Department of Environmental Protection headquarters, located at 601 57th Street, SE Charleston, WV 25304 (304-926-0450). Full copies or scans of the proposed permit application will cost $15, whether mailed or obtained at DEP headquarters. Copies may be requested by calling the office or by sending an email to DEP.oog@wv.gov.

Submitting Comments:
Comments may be submitted online at https://apps.dep.wv.gov/oog/comments/comments.cfm, or by letter to Permit Review, Office of Oil and Gas, 601 57th Street, SE Charleston, WV 25304. Please reference the county, well number, and operator when using this option.

Regardless of format for comment submissions, they must be received no later than thirty days after the permit application is received by the Office of Oil and Gas.

For information related to horizontal drilling visit: www.dep.wv.gov/oil-and-gas/pages/default.aspx
<table>
<thead>
<tr>
<th>Well Name</th>
<th>Northing</th>
<th>Easting</th>
</tr>
</thead>
<tbody>
<tr>
<td>Taylor B 2H</td>
<td>4411919.48</td>
<td>526680.74</td>
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<tr>
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<td>4411917.45</td>
<td>526689.65</td>
</tr>
<tr>
<td>Taylor B 6H</td>
<td>4411915.42</td>
<td>526698.56</td>
</tr>
<tr>
<td>Taylor B 7H</td>
<td>4411914.41</td>
<td>526703.02</td>
</tr>
<tr>
<td>Taylor B 8H</td>
<td>4411913.39</td>
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</tr>
<tr>
<td>Taylor B 9H</td>
<td>4411912.38</td>
<td>526711.93</td>
</tr>
</tbody>
</table>

Coordinates listed in UTM NAD 83

Please list well name and coordinates as follows:

Taylor B 2H 4411919.48, 526680.74; Taylor B 3H 4411918.46, 526685.19; etc.
STATE OF WEST VIRGINIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS
NOTICE CERTIFICATION

Date of Notice Certification: 10/31/2014
API No. 47-
Operator’s Well No. 6H
Well Pad Name: Taylor B

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: Clay
Quadrangle: Glen Easton, WV 7.5'
Watershed: Middle Grave Creek - Grave Creek

UTM NAD 83
Easting: 526698.56
Northing: 4411915.42
Public Road Access: CR 17 - Fork Ridge Rd
Generally used farm name: Taylor B

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-i; 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. One attached Notice Forms and Certifications of Notice shall serve as proof that the required parties have been notified 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, Alex Gemovone, 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: Chevron Appalachia, LLC
By: 
Its: Construction Permitting Team Lead
Telephone: 724-564-3700

Address: 800 Mountain View Drive
Smithfield, PA 15478

Facsimile: 724-564-3994

Email:

[Notary Seal]
COMMONWEALTH OF PENNSYLVANIA
NOTARY SEAL
Laura Savage, Notary Public
Georges Twp., Fayette County
My Commission Expires Sept. 17, 2018

Subscribed and sworn before me this 31 day of October, 2014.

[Signature]
Notary Public

My Commission Expires September 17, 2018

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: 9/28/2014 Date Permit Application Filed: 11/10/14

Notice of:

☐ PERMIT FOR ANY WELL WORK
☐ CERTIFICATE OF APPROVAL FOR THE CONSTRUCTION OF AN IMPOUNDMENT OR PIT

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

☐ PERSONAL ☐ REGISTERED SERVICE ☐ MAIL ☐ METHOD OF DELIVERY THAT REQUIRES A RECEIPT OR SIGNATURE CONFIRMATION

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. (c)(1) If more than three tenants in common or other co-owners of interests described in subsection (b) of this section hold interests in the lands, the applicant may serve the documents required upon the person described in the records of the sheriff required to be maintained pursuant to section eight, article one, chapter eleven-a of this code. (2) Notwithstanding any provision of this article to the contrary, notice to a lien holder is not notice to a landowner, unless the lien holder is the landowner. W. Va. Code R. § 35-8-5.7.a requires, in part, that the operator shall also provide the Well Site Safety Plan ("WSSP") 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.

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

☒ SURFACE OWNER(s)
Name: Williams Ohio Valley Midstream LLC
Address: 100 Teletech Drive, Suite 2
Moundsville, WV 26041

☒ SURFACE OWNER(s) (Road and/or Other Disturbance)
Name: 
Address: 

☒ SURFACE OWNER(s) (Impoundments or Pits)
Name: 
Address: 

☒ SURFACE OWNER OF WATER WELL AND/OR WATER PURVEYOR(s)
Name: Brendan McCarthy & Joseph Bojrad III
Address: Fork Ridge Rd
Moundsville, WV 26041

☒ OPERATOR OF ANY NATURAL GAS STORAGE FIELD
Name: 
Address: 

*Please attach additional forms if necessary.

04/10/2015
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: 9/26/14  Date Permit Application Filed:__________

Notice of:

☐ PERMIT FOR ANY
WELL WORK  ☐ CERTIFICATE OF APPROVAL FOR THE
CONSTRUCTION OF AN IMPOUNDMENT OR PIT

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

☐ PERSONAL  ☑ REGISTERED  ☐ METHOD OF DELIVERY THAT REQUIRES A
SERVICE  MAIL  RECEIPT OR SIGNATURE CONFIRMATION

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. (c)(1) If more than three tenants in common or other co-owners of interests described in subsection (b) of this section hold interests in the lands, the applicant may serve the documents required upon the person described in the records of the sheriff required to be maintained pursuant to section eight, article one, chapter eleven-a of this code. (2) Notwithstanding any provision of this article to the contrary, notice to a lien holder is not notice to a landowner, unless the lien holder is the landowner. W. Va. Code R. § 35-8-5.7.a requires, in part, that the operator shall also provide the Well Site Safety Plan ("WSSP") 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.

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

☐ SURFACE OWNER(s)
Name: __________________________________________
Address: _______________________________________

Name: __________________________________________
Address: _______________________________________

☐ SURFACE OWNER(s) (Road and/or Other Disturbance)
Name: __________________________________________
Address: _______________________________________

Name: __________________________________________
Address: _______________________________________

☐ SURFACE OWNER(s) (Impoundments or Pits)
Name: __________________________________________
Address: _______________________________________

☐ SURFACE OWNER OF WATER WELL AND/OR WATER PURVEYOR(s)
Name: __________________________________________
Address: _______________________________________

☐ OPERATOR OF ANY NATURAL GAS STORAGE FIELD
Name: __________________________________________
Address: _______________________________________

*Please attach additional forms if necessary.
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 refusals 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 that he or she 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 thousand 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, 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 by the secretary that the well location restrictions regarding occupied dwelling structures are inadequate or otherwise require alteration to address such items

04/10/2015

WW-6A
(8-13)

API NO. 47-_____
OPERATOR WELL NO. Taylor B
Well Pad Name: 6H
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 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.gov/oil-and-gas/Horizontal-Permits/Pages/default.aspx and the applicant will automatically be forwarded a 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 noticed within the application.

Permit Denial or Condition
The Chief has the power to deny or condition a well 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: Chevron Appalachia, LLC
Telephone: 724-564-3700
Email:

Address: 800 Mountain View Drive
Smithfield, PA 15478
Facsimile: 724-564-3694

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 depprivacyoffice@wv.gov.

Subscribed and sworn before me this 25 day of September 2014.

__________________________
Thomas Basinger
Notary Public

My Commission Expires 9/24/2017

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RECEIVED
Office of Oil and Gas

NOV 14 2014
WV Department of Environmental Protection
STATE OF WEST VIRGINIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS
NOTICE OF INTENT TO DRILL

Pursuant to W. Va. Code § 22-6A-16(b), the Notice of Intent to Drill is only required if the notice requirements of W. Va. Code § 22-6A-10(a) have NOT been met or if the Notice of Intent to Drill requirement has NOT been waived in writing by the surface owner.

Notice Time Requirement: Notice shall be provided at least TEN (10) days prior to filing a permit application.
Date of Notice: 09/25/2014  Date Permit Application Filed: 11/10/14

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

Pursuant to W. Va. Code § 22-6A-16(b), at least ten days prior to filing a permit application, an operator shall, by certified mail return receipt requested or hand delivery, give the surface owner notice of its intent to enter upon the surface owner’s land for the purpose of drilling a horizontal well: Provided, That notice given pursuant to subsection (a), section ten of this article satisfies the requirements of this subsection as of the date the notice was provided to the surface owner: Provided, however, That the notice requirements of this subsection may be waived in writing by the surface owner. The notice, if required, shall include the name, address, telephone number, and if available, facsimile number and electronic mail address of the operator and the operator’s authorized representative.

Notice is hereby provided to the SURFACE OWNER(s):
Name: Williams Ohio Valley Midstream LLC
Address: 100 Teletech Drive, Suite 2
Moundsville, WV 26041

Notice is hereby given:
Pursuant to West Virginia Code § 22-6A-16(b), notice is hereby given that the undersigned well operator has an intent to enter upon the surface owner’s land for the purpose of drilling a horizontal well on the tract of land as follows:

State: West Virginia
County: Marshall
District: Clay
Quadrangle: Glen Easton, WV 7.5'
Watershed: Middle Grave Creek - Grave Creek

Easting: 526698.56
Northing: 4411915.42
Public Road Access: CR 17 Fork Ridge Rd
Generally used farm name: Taylor B

This Notice Shall Include:
Pursuant to West Virginia Code § 22-6A-16(b), this notice shall include the name, address, telephone number, and if available, facsimile number and electronic mail address of the operator and the operator’s authorized representative. 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.

Notice is hereby given by:
Well Operator: Chevron Appalachia, LLC
Address: 800 Mountain View Drive
Smithfield, PA 15478
Telephone: 724-564-3700
Email: 
Facsimile: 724-564-3604

Authorized Representative: 
Address: 
Telephone: 
Email: 
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.
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: 08/02/2014 Date Permit Application Filed: 11/10/14

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

RETURN RECEIPT REQUESTED

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: Williams Ohio Valley Midstream LLC
Address: 100 Telech Dr, Suite 2, Moundsville, WV 26041

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: 526929.59
County: Marshall Northing: 441915.42
District: Clay Public Road Access: CR 17 Fork Ridge Rd
Quadangle: Glen Easton, WV 7.5’ Generally used farm name: Taylor B
Watershed: Middle Grave Creek - Grave 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: Chevron Appalachia, LLC Address: 800 Mountain View Dr
Telephone: 724-564-3700 Smithfield, PA 15478
Email: Facsimile: 724-564-3894

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 of your personal information, please contact DEP’s Chief Privacy Officer at depprivacyofficer@wv.gov.

NOV 14 2014
WV Department of Environmental Protection

04/10/2015
STATE OF WEST VIRGINIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS
VOLUNTARY STATEMENT OF NO OBJECTION

Instructions to Persons Named on Page WW-6A
The well operator named on page WW-6A is applying for a permit from the State of West Virginia to conduct oil or gas well work. Well work permits are valid for twenty-four (24) months. Please contact the listed well operator and the Office of Oil and Gas if you do not own any interest in the listed surface tract.

Comment and Waiver Provisions
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.

Pursuant to West Virginia Code § 22-6A-8(b) No permit may be issued less than thirty days after the filing date of the application for any well work except plugging or reblocking; and no permit for plugging or reblocking may be issued less than five days after the filing date of the application except a permit for plugging or reblocking a dry hole: Provided, That if the applicant certifies that all persons entitled to notice of the application under the provisions of subsection (b), section ten of this article have been served in person or by certified mail, return receipt requested, with a copy of the well work application, including the erosion and sediment control plan, if required, and the well plat, and further files written statements of no objection by all such persons, the secretary may issue the well work permit at any time.

VOLUNTARY STATEMENT OF NO OBJECTION

I, [Signature], hereby state that I have read the Instructions to Persons Named on Page WW-6A and the associated provisions listed above, and that I have received copies of a Notice of Application, an Application for a Well Work Permit on Form WW-6A and attachments consisting of pages one (1) through [Number], including the erosion and sediment control plan, if required, and the well plat, all for proposed well work on the tract of land as follows:

State: West Virginia  UTM NAD 83: 52698.56
County: Marshall  Northing: 4411913.42
District: Clay  Public Road Access: CR 17 Fork Ridge Road
Quadrangle: Glen Easton, WV T.5'  Generally used farm name: Taylor B
Watershed: Middle Grave Creek - Grave Creek

I further state that I have no objection to the planned work described in these materials, and I have no objection to a permit being issued on those materials.

*Please check the box that applies

☐ SURFACE OWNER
☐ SURFACE OWNER (Road and/or Other Disturbance)
☐ SURFACE OWNER (Impoundments/Pits)
☐ COAL OWNER OR LESSEE
☐ COAL OPERATOR
☐ WATER PURVEYOR
☐ OPERATOR OF ANY NATURAL GAS STORAGE FIELD

FOR EXECUTION BY A NATURAL PERSON

Signature: [Signature]
Print Name: [Print Name]
Date: [Date]

FOR EXECUTION BY A CORPORATION, ETC.

Company: [Company]
By: [By]
Its: [Its]
Signature: [Signature]
Date: [Date]

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 of 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
VOLUNTARY STATEMENT OF NO OBJECTION

Instructions to Persons Named on Page WW-6A
The well operator named on page WW-6A is applying for a permit from the State of West Virginia to conduct oil or gas well work. Well work permits are valid for twenty-four (24) months. Please contact the listed well operator and the Office of Oil and Gas if you do not own any interest in the listed surface tract.

Comment and Waiver Provisions
Pursuant to West Virginia Code § 22-6A-11(a), all persons described in subsection (h), 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.

Pursuant to West Virginia Code § 22-6A-8(b) No permit may be issued less than thirty days after the filing date of the application for any well work except plugging or replugging; and no permit for plugging or replugging may be issued less than five days after the filing date of the application except a permit for plugging or replugging a dry hole: Provided. That if the applicant certifies that all persons entitled to notice of the application under the provisions of subsection (b), section ten of this article have been served in person or by certified mail, return receipt requested, with a copy of the well work application, including the erosion and sediment control plan, if required, and the well plat, and further files written statements of no objection by all such persons, the secretary may issue the well work permit at any time.

VOLUNTARY STATEMENT OF NO OBJECTION

I, Alex O'Neill, hereby state that I have read the Instructions to Persons Named on Page WW-6A and the associated provisions listed above, and that I have received copies of a Notice of Application, an Application for a Well Work Permit on Form WW-6A and attachments consisting of pages one (1) through ______, including the erosion and sediment control plan, if required, and the well plat, all for proposed well work on the tract of land as follows:

State: West Virginia
County: Marshall
District: Clay
Quadrangle: GLEN EASTON
Watershed: 

I further state that I have no objection to the planned work described in these materials, and I have no objection to a permit being issued on those materials, provided that Chevron U.S.A. Inc. drills the well on West Virginia North State Plane NAD 27 coordinates of North 496,379.077 ft, East 1,666,456.367 ft in accordance with the Agreement between Consolidation Coal Company, Murray American Energy and Chevron U.S.A. Inc. dated 2015-04-01.

*Please check the box that applies

☐ SURFACE OWNER
☐ SURFACE OWNER (Road and/or Other Disturbance)
☐ SURFACE OWNER (Impoundments/Pits)
☒ COAL OWNER OR LESSEE
☒ COAL OPERATOR
☐ WATER PURVEYOR
☐ OPERATOR OF ANY NATURAL GAS STORAGE FIELD

FOR EXECUTION BY A NATURAL PERSON
Signature: ____________________________
Print Name: __________________________
Date: ________________________________

FOR EXECUTION BY A CORPORATION, ETC.
Company: Consolidation Coal Company
By: Alex O'Neill
Its: Coal Oil & Gas Relations Manager
Signature: ____________________________
Date: ________________________________

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 depprivacyoffice@wv.gov.
October 23, 2014

Mr. James Martin – Chief
West Virginia Department of Environmental Protection
Office of Oil & Gas
601 57th Street
Charleston, West Virginia 25304


Dear Mr. Martin,

CONSOL Mining Company LLC objects to the drilling of the wells represented by the above referenced well drilling applications, at this time, pending an opportunity to discuss the well applications in detail with Chevron U.S.A. Inc. to attempt to resolve any issues with the proposed well drillings to protect the health and safety of the employees working in the coal mine. CONSOL Mining Company LLC has submitted an objection to the drilling of these wells to Chevron U.S.A. Inc. by certified mail.

Sincerely,

[Signature]
Ryan Arp
Project Engineer

CONSOL Energy Inc.
CNX Center
1000 Consol Energy Drive
Canonsburg, PA 15317

phone: 724.485.4483
fax: 724.485.4841
e-mail: RyanArp@consolenergy.com
web: www.consolenergy.com

RECEIVED
Office of Oil and Gas
OCT 27 2014
WV Department of Environmental Protection

04/10/2015
October 20, 2014

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 Taylor B Well Pad, Marshall County
   Taylor B Unit 2H  Taylor B Unit: 3H  Taylor B Unit 4H  Taylor B Unit 6H
   Taylor B Unit 7H  Taylor B Unit: 8H  Taylor B Unit 9H

Dear Mr. Martin,

The West Virginia Division of Highways has issued Permit #06-2014-0291 for the subject site to Chevron Appalachia, LLC for access to the State Road for the well site located off of Marshall County Route 17 SLS.

The operator has signed a STATEWIDE 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, P.E.
Regional Maintenance Engineer
Central Office Oil & Gas Coordinator

Cc: Kristen R. Brooks
    Chevron Appalachia, LLC
    CH, OM, D-6
    File
Hydraulic Fracturing Fluid Product Component Information Disclosure

| Fracture Date:    |       |
| State:            | WV    |
| County:           | Marshall |
| API Number:       |       |
| Operator Name:    | Chevron |
| Well Pad Name:    | Taylor B & C |
| Longitude:        |       |
| Latitude:         |       |
| Long/Lat Projection: |      |
| Production Type:  |       |
| True Vertical Depth (TVD): |       |
| Total Water Volume (gal)*: | see WMP |

Hydraulic Fracturing Fluid Additives:

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<th>Supplier</th>
<th>Purpose</th>
<th>Ingredients</th>
<th>Chemical Abstract Service Number (CAS #)</th>
<th>Comments</th>
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* Total Water Volume sources may include fresh water, produced water, and/or recycled water
** Information is based on the maximum potential for concentration and thus the total may be over 100%

All component information listed was obtained from the supplier's Material Safety Data Sheets (MSDS). As such, the Operator is not responsible for inaccurate and/or incomplete information. Any questions regarding the content of the MSDS should be directed to the supplier who provided it. The Occupational Safety and Health Administration's (OSHA) regulations govern the criteria for the disclosure of this Information. Please note that Federal Law protects "proprietary", "trade secret", and "confidential business information" and the criteria for how this information is reported on an MSDS (8s subject to 29 CFR 1910.1200(l)) and Appendix D.