December 09, 2015

WELL WORK PERMIT

Replacement Borehole H6A

This permit, API Well Number: 47-5101874, 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: 2HA
Farm Name: WILLIAMS OHIO VALLEY MIDS1
API Well Number: 47-5101874
Permit Type: Replacement Borehole H6A
Date Issued: 12/08/2015

Promoting a healthy environment.
PERMIT CONDITIONS

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

CONDITIONS

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

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

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

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

5. Oil and gas water supply wells will be registered with the Office of Oil and Gas and all such wells will be constructed and plugged in accordance with the standards of the Bureau for Public Health set forth in its Legislative rule entitled Water Well Regulations, 64 C.S.R. 19. Operator is to contact the Bureau of Public Health regarding permit requirements. In lieu of plugging, the operator may transfer the well to the surface owner upon agreement of the parties. All drinking water wells within fifteen hundred feet of the water supply well shall be flow tested by the operator upon request of the drinking water 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. The operator shall provide to the Office of Oil and Gas the dates of each of the following within 30 days of their occurrence: completion of construction of the well pad, commencement of drilling, cessation of drilling, completion of any other permitted well work, and completion of the well. Such notice shall be provided by sending an email to DEPOOGNotify@wv.gov.

12/11/2015
### STATE OF WEST VIRGINIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS
WELL WORK PERMIT APPLICATION

Operator ID  County  District  Quadrangle

2) Operator’s Well Number: 2HA  Well Pad Name: Taylor C

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

4) Elevation, current ground: 1257'  Elevation, proposed post-construction: 1236'

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

6) Existing Pad: Yes or No  No
   [Signature]  12/2/15

7) Proposed Target Formation(s), Depth(s), Anticipated Thickness and Expected Pressure(s):
   Marcellus, 6533', 49' - 0.64 psi/ft

8) Proposed Total Vertical Depth: 6555'

9) Formation at Total Vertical Depth: Marcellus

10) Proposed Total Measured Depth: 14,347'

11) Proposed Horizontal Leg Length: 7167'

12) Approximate Fresh Water Strata Depths: 470' GL

13) Method to Determine Fresh Water Depths: 1 mi radius offset wells, freshwater wells, and freshwater base level

14) Approximate Saltwater Depths: 1276', 1880'-2370' KB: Francis 1V offset well

15) Approximate Coal Seam Depths: 800' GL

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

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

(a) If Yes, provide Mine Info:
   Name: Ireland Mine
   Depth: 800' GL
   Seam: Pittsburgh No. 8'
   Owner: CONSOL Energy
### CASING AND TUBING PROGRAM

<table>
<thead>
<tr>
<th>TYPE</th>
<th>Size (in)</th>
<th>New or Used</th>
<th>Grade</th>
<th>Weight per ft. (lb/ft)</th>
<th>FOOTAGE: For Drilling (ft)</th>
<th>INTERVALS: Left in Well (ft)</th>
<th>CEMENT: Fill-up (Cu. Ft.)/CTS</th>
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<tbody>
<tr>
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<td>520'</td>
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<tr>
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<td>New</td>
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<td>40#</td>
<td>2,104'</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>14,354'</td>
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### Wellbore Diagram

- **TYPE**
  - Size (in)
  - Wellbore Diameter (in)
  - Wall Thickness (in)
  - Burst Pressure (psi)
  - Anticipated Max. Internal Pressure (psi)
  - Cement Type
  - Cement Yield (cu. ft./k)

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<tr>
<th>Type</th>
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<th>Burst Pressure (psi)</th>
<th>Anticipated Max. Internal Pressure (psi)</th>
<th>Cement Type</th>
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<tr>
<td>Fresh Water</td>
<td>13-3/8&quot;</td>
<td>17-1/2&quot;</td>
<td>0.380&quot;</td>
<td>2,730 psi</td>
<td>1,911 psi</td>
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<td>12-1/4&quot;</td>
<td>0.395&quot;</td>
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<td>0.361&quot;</td>
<td>12,640 psi</td>
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### PACKERS

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**REVIEWED**

Office of Oil and Gas

DEC 9 3 2015

WV Department of Environmental Protection Page 2 of 3

12/11/2015
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 2,330' then run and cement to surface 9 5/8" casing, covering the Big Injun. Drill 8 1/2" hole to KOP at 5,478'. Drill 8 1/2" curve and lateral to 14,354' MD and 6,555 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 38 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): 22.01

22) Area to be disturbed for well pad only, less access road (acres): 4.66

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, 4% 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.
 STATE OF WEST VIRGINIA  
DEPARTMENT OF ENVIRONMENTAL PROTECTION  
OFFICE OF OIL AND GAS  

FLUIDS/ CUTTINGS DISPOSAL & RECLAMATION PLAN  

Operator Name:  
Watershed (HUC 10):  

Do you anticipate using more than 5,000 bbls of water to complete the proposed well work?  

Will a pit be used?  

If so, please describe anticipated pit waste: 

Will a synthetic liner be used in the pit? 

Proposed Disposal Method For Treated Pit Wastes: 

- Land Application  
- Underground Injection (UIC Permit Number)  
- Reuse (at API Number): will reuse at next anticipated well  
- Off Site Disposal (Supply form WW-9 for disposal location)  
- Other (Explain)  

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

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

- 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 # 100172; South Hills Landfill - Permit # 100592  

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

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

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

Company Official Signature:  
Company Official (Typed Name):  
Company Official Title: Permitting Team Lead  

Subscribed and sworn before me this 30th day of November, 2015  

My commission expires Sept 2, 2018  

12/11/2015
Chevron Appalachia, LLC

Proposed Revegetation Treatment: Acres Disturbed 22.01 Prevegetation pH 5.5 - 6.3

Lime Soil Test Tons/acre or to correct to pH 5.0 - 7.5

Fertilizer type 10-20-20
Fertilizer amount 1,000 lbs/acre
Mulch Straw 2 Tons/acre

Seed Mixtures

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<tr>
<th>Seed Type</th>
<th>Temporary</th>
<th>lbs/acre</th>
<th>Permanent</th>
<th>Seed Type</th>
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<td>Birdsfoot Trefoil</td>
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<td>Plant 8/15 - 2/28</td>
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<td>Weeping Lovegrass</td>
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<td>Perennial Ryegrass</td>
<td>10</td>
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<td>Plant 3/1-6/15 8/15-9/15</td>
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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: [Signature] 12/2/15

Comments:

Title: Oil Gas Inspector Date: 12/2/15

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

West Virginia Well Site Safety Plan

Taylor C Site
Well 2HA
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
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<tr>
<td>J HARRY J. CRAWFORD ET AL</td>
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</tbody>
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| DECEMBER 1, 2015 |
**FILE #:** TAYLOR C 2HA  
**DRAWING #:** TAYLOR C 2HA  
**SCALE:** 1" = 2000'  
**MINIMUM DEGREE OF ACCURACY:** 1/2500  
**PROVEN SOURCE OF ELEVATION:** U.S.G.S. MONUMENT THOMAS 1428.81'  
**ELEVATION:** 1257.00'  
**SURFACE OWNER:** WILLIAMS OHIO VALLEY MIDSTREAM LLC  
**COUNTRY/DISTRICT:** MARSHALL / CLAY  
**WATERSHED:** MIDDLE GRAVE CREEK / GRAVE CREEK  
**STATE:** WEST VIRGINIA  
**COUNTY:** CHARLESTON  
**COUNTY PERMIT:**  
**ADDRESS:** 601 57TH STREET, CHARLESTON, WV 25304  
**API WELL #:** 47  
**API SHEET #:** 51  
**PLAT IS CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF AND SHOWS ALL THE INFORMATION REQUIRED BY LAW AND THE REGULATIONS ISSUED AND PRESCRIBED BY THE DEPARTMENT OF ENVIRONMENTAL PROTECTION.**  
**SIGNED:**  
**PLAT SEAL HERE:**  
**FILE DATE:** NOVEMBER 30, 2015  
**OPERATOR'S WELL #:** TAYLOR C 2HA  
**STATE OF WEST VIRGINIA DEPARTMENT OF NATURAL RESOURCES AND MINERALS OFFICE OF OIL AND GAS  
**OIL & GAS ROYALTY OWNER:** LEE E. & SHERRI L. TAYLOR  
**OIL & GAS ROYALTY ACREAGE:** 741.1541  
**WELL TYPE:** [Check all that apply] Oil, Waste Disposal, Production, Deep Gas, Liquid Injection, Storage, Shallow  
**ESTIMATED DEPTH:** TD: 14,347'  
**TRANSFORMER 655'**  
**WELL TYPE:** Convert, Drill Deeper, Redrill, Fracture or Stimulation, Plug Off Old Formation, Perforate New Formation, Plug & Abandon, Clean Out & Replug, Other Change (Specify):  
**WELL OPERATOR:** CHEVRON APPALACHIA, LLC  
**DESIGNATED AGENT:** KENNETH T. TARNEY  
**ADDRESS:** 800 MOUNTAIN VIEW DRIVE, SMITHFIELD, PA 15488  
**CITY:** SMITHFIELD  
**STATE:** PA  
**ZIP CODE:** 15488  
**ADDRESS:** 300 LEE STREET, EAST SUITE 1600  
**CITY:** CHARLESTON  
**STATE:** WV  
**ZIP CODE:** 25301-3202  
**DATE:** 12/11/2015
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<thead>
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**Signature**

NOVEMBER 30, 2015

12/2/15
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>
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</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: [Signature]
<table>
<thead>
<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>
</tr>
</thead>
<tbody>
<tr>
<td>(B)</td>
<td>Robert Morris Sullivan</td>
<td>Chevron U.S.A Inc.</td>
<td>16%</td>
<td>776/395</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
</tr>
<tr>
<td>(D)</td>
<td>CNX Gas Company, LLC</td>
<td>Chevron U.S.A Inc.</td>
<td>25%</td>
<td>818/553</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
</tr>
<tr>
<td>Parcel</td>
<td>Lessor</td>
<td>Lessee</td>
<td>Royalty</td>
<td>DB/PG</td>
<td>ASSIGNMENT 1</td>
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<table>
<thead>
<tr>
<th>PARCEL</th>
<th>LESSOR</th>
</tr>
</thead>
<tbody>
<tr>
<td>A</td>
<td>Lee R. &amp; Sherri L. Taylor</td>
</tr>
<tr>
<td>B</td>
<td>Robert Morris Sullivan</td>
</tr>
<tr>
<td>C</td>
<td>Robert Morris Sullivan</td>
</tr>
<tr>
<td>D</td>
<td>David Shawn Conner</td>
</tr>
<tr>
<td>E</td>
<td>CNX Gas Company, LLC</td>
</tr>
<tr>
<td>F</td>
<td>Okey D. &amp; Janina A. Burton</td>
</tr>
<tr>
<td>G</td>
<td>Charles R. Kernan et ux</td>
</tr>
<tr>
<td>H</td>
<td>Harry J. Crawford et al</td>
</tr>
<tr>
<td>J</td>
<td>Harry J. Crawford et al</td>
</tr>
</tbody>
</table>
AB RESOURCES LLC
6802 W SNOWVILLE RD SUITE E
BRECKSVILLE OH 44141

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 Past
MARSHALL County 12:40:32 PM
Instrument No 1306662
Date Recorded 06/27/2011
Document Type 489
Pages Recorded 24
Book-Page 24-466
Recording Fee $26.00
Additional $8.00

12/11/2015
4. The Assigned Interests herein are assigned and conveyed to and are owned by Assignees in the following undivided proportions:

<table>
<thead>
<tr>
<th>Company</th>
<th>Percentage</th>
</tr>
</thead>
<tbody>
<tr>
<td>Chief Exploration &amp; Development LLC</td>
<td>80%</td>
</tr>
<tr>
<td>Radler 2000 Limited Partnership</td>
<td>20%</td>
</tr>
</tbody>
</table>

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: [Signature]

Gordon O. Yonel
Its: Chief Executive Officer

AB LEGAL

NPAR, LLC, ASSIGNOR

By: [Signature]

Gordon O. Yonel
Its: Chief Executive Officer

AB LEGAL
ASSIGNEES

CHIEF EXPLORATION & DEVELOPMENT LLC
By: 
Its: Senior Vice President - Land

RADLER 2000 LIMITED PARTNERSHIP
By: 
Its: President of Radler 2000 Limited Partnership

ACKNOWLEDGMENTS

State of Ohio )
County of Cuyahoga ) ss:

On this 1st 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 1st 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

12/11/2015
State of Ohio  
County of Cuyahoga

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

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

-------------------------------

State of Texas  
County of Dallas

On this 22nd day of June 2011, personally appeared Glynnie Mildean, the Sr. VP-Land of Chief Exploration & Development 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 22nd day of June 2011.

My Commission Expires

MARIE G. YEST
My Comm. Expires 3-14-2013

Notary Public
State of Texas

County of Dallas

On this 24th day of June 2011, personally appeared Michael G. 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:

[Stamp with Notary Public's name and commission expiration date]

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

December 1, 2015

RE: Taylor C #2HA

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 lateral. If you should have any further questions or need additional documentation, please feel free to contact me.

Sincerely,

Ian J. Durham
Land Representative
STATE OF WEST VIRGINIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS
NOTICE CERTIFICATION

Date of Notice Certification: 12/02/2015

API No. 47- 051- 01874
Operator’s Well No. 2HA
Well Pad Name: Taylor C

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: 525904.007
Northing: 4411354.969
Public Road Access: CR 17 - Fork Ridge Road
Generally used farm name: Taylor C

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-a; 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.

**PLEASE CHECK ALL THAT APPLY**

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

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

☐ 3. NOTICE OF INTENT TO DRILL or ☐ NOTICE NOT REQUIRED BECAUSE NOTICE OF ENTRY FOR PLAT SURVEY WAS CONDUCTED or ☐ WRITTEN WAIVER BY SURFACE OWNER (PLEASE ATTACH)

☐ 4. NOTICE OF PLANNED OPERATION

☐ 5. PUBLIC NOTICE

☐ 6. NOTICE OF APPLICATION

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

THEREFORE, I, Janny Hayes, 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: Janny Hayes
Its: Permitting Team Lead
Telephone: 724-564-3700

Address: 800 Mountain View Drive
Smithfield, PA 15478
Facsimile: 724-564-3594
Email:

Subscribed and sworn before me this 2nd day of December, 2015
Kristen Brooks, Notary Public
My Commission Expires Sept 2, 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 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
NOTICE OF APPLICATION

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

Date of Notice: 11/30/15  Date Permit Application Filed: 12/2/15

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 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 or persons 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 lessee is not notice to a landowner, unless the lessee 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: ____________________________

Name: ____________________________
Address: ____________________________

☐ WELL PLA'T NOTICE is hereby provided to:

☐ COAL OWNER OR LESSEE
Name: Consolidated Coal Company
Address: 1600 Consol Energy Drive
Canonsburg, PA 15317

☐ COAL OPERATOR
Name: Murray Energy Corporation
Address: 46220 National Road
St. Clairsville, OH 43950

☐ 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

12/11/2015
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 testing as provided in section 15 of this rule.

Pursuant to W. Va. Code R. § 35-8-15.2.c, this notice shall: (1) contain a statement of the surface owner’s and water purveyor’s right to request sampling and analysis; (2) advise the surface owner and water purveyor of the rebuttable presumption for contamination or deprivation of a fresh water source or supply; advise the surface owner and water purveyor that refusal to allow the operator to conduct a pre-drilling water well test constitutes a method to rebut the presumption of liability; (3) advise the surface owner and water purveyor of his or her independent right to sample and analyze any water supply at his or her own expense; advise the surface owner and water purveyor whether or not the operator will utilize an independent laboratory to analyze any sample; and (4) advise the surface owner and or 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, 2012, report to the Legislature on the noise, light, dust and volatile organic compounds generated by the drilling of horizontal wells as they relate to the well location restrictions regarding occupied dwelling structures pursuant to this section. Upon a finding, if any, by the secretary that the well location restrictions regarding occupied dwelling structures are inadequate or otherwise require alteration to address the items

12/11/2015
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 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) 926-0430

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

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

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

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

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

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

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

Pursuant to West Virginia Code § 22-6A-10(g), any person entitled to submit written comments to the secretary pursuant to subsection (a), section eleven of this article, shall also be entitled to receive from the secretary a copy of the permit as issued or a copy of the order modifying or denying the permit if the person requests receipt of them as a part of the written comments submitted concerning the permit application. Such persons may request, at the time of submitting written comments, notice of the permit decision and a list of persons qualified to test water.

12/11/2015
Notice is hereby given by:
Well Operator: Chevron Appalachia, LLC
Telephone: 724-564-3700
Email:

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

COMMONWEALTH OF PENNSYLVANIA
NOTARIAL SEAL
Kristen Brooks, Notary Public
Smithfield Boro, Fayette County
My Commission Expires Sept. 2, 2018

My Commission Expires Sept 2, 2018

Subscribed and sworn before me this 30th day of November 2015

Kristen Brooks
Notary Public

12/11/2015
# WATER SUPPLY EXHIBIT
## TAYLOR UNIT B

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# Water Supply Exhibit
## Taylor Unit B

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<td>(William)</td>
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**DISTANCE FROM WELL:**

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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 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

East: West Virginia  
North State Plane

NAD 27  
North:
494,580.008 ft

District: GLEN EASTON

Watershed: Middle Grave Creek - Grave Creek

CR 17 Fork Ridge Road

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 494,580.008 ft, East 1,663,832.965 ft in accordance with the Agreement between Murray American Energy, Inc. and Chevron U.S.A. Inc. dated 11/30/2015.

FOR EXECUTION BY A NATURAL PERSON

Signature: ____________________________
Print Name: ____________________________
Date: ____________________________

FOR EXECUTION BY A CORPORATION, ETC.

Company: Murray American Energy, Inc.
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

12/11/2015
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 C Well Pad, Marshall County
          Taylor C Unit 1H  Taylor C Unit 2H  Taylor C Unit 3H  Taylor C Unit 4H
          Taylor C Unit 5H  Taylor C Unit 7H

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,

[Signature]

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

E.E.O./AFFIRMATIVE ACTION EMPLOYER

12/11/2015
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 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, __Ryan Arp______, 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  WVSPN NAD 27 Easting: 1,663,832.965
County: Marshall  Public Road Access: CR 17 Fork Ridge Road
District: Clay  Generally used farm name: 
Quadrangle: BUSINESSBURG  )
Watershed: Middle Grave Creek - Grave Creek  494,580.008

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 WV North NAD27 coordinates of North 494,580.008, East 1,663,832.965. This statement does not serve as notice that CONSOL Mining Company LLC has waived its rights to mine all the coal or accept any responsibility for any damage to the well or surface facilities associated with the well by CONSOL Mining Company LLC mining activity. This Voluntary Statement of No Objection does not waive CONSOL Mining Company LLC’s Common Law Property Rights in the State of West Virginia.

*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: CONSOL Mining Company LLC
By: Ryan Arp
Its: Project Engineer

Signature: ______________
Date: 12/1/2015

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.

12/11/2015
OIL AND GAS ROAD
STATEWIDE BONDING AGREEMENT

THIS AGREEMENT, executed in duplicate, made and entered into this 12th day of
January, 2012, by and between the WEST VIRGINIA DEPARTMENT OF
TRANSPORTATION, DIVISION OF HIGHWAYS, hereinafter called “DEPARTMENT,”
and CHEVRON APPALACHIA, LLC, a Pennsylvania Limited Liability company, hereinafter
called “COMPANY.”

WITNESSETH:

WHEREAS, Company has horizontal gas well drilling operations in certain areas of
West Virginia; and

WHEREAS, the Department believes that the frequent and repetitive use of certain
sections of highways in the State by Company, its contractors, agents, independent contractors or
suppliers of drilling materials or drilling equipment, and employees contributes to increased
wear and tear to public roads in the state road system in the State, including local roads (“State
Owned Roads”); and,

WHEREAS, the Department and Company have entered into this Agreement to satisfy
the requirements of the Department’s policy entitled “Oil & Gas Road Policy” dated February 1,
2011, as issued by Paul A. Mattox, Jr., Secretary of Transportation / Commissioner of Highways,
and any subsequent related policies, hereinafter called “Policy”, a copy of which is made a part
of this Bonding Agreement and is identified as Attachment 1.

NOW, THEREFORE, for and in consideration of the mutual agreements hereinafter set
forth, the parties agree as follows:

I. For purposes of this Bonding Agreement, “Project Transportation Usage” of the
Company shall be understood to mean use of one or more State Owned Roads for the delivery
and removal of drilling materials and drilling equipment at the site or location of one or more of
Company’s horizontal gas well pad locations. To the extent reasonably practical, prior to
commencing use of a State Owned Road for Project Transportation Usage after January 1, 2011,
the Company shall submit to the Department a section or sections of current official WVDOH
County Highway maps identifying the exact location of the proposed project and the State
Owned Roads that the Company will utilize for the Project Transportation Usage.

II. Company and Department shall within 14 days of the Company’s submittal,
agree to a list of these sections of State Owned Roads, hereinafter called “Project Roads List”, to
be utilized for each of Company’s projects, identified by route number and milepost; at a time to
be mutually agreed to by the parties prior to initial commencement of Project Transportation
Usage of a particular State Owned Road on a Project Roads List, the Company and Department
will jointly review the condition of the roads and bridges on the Project Roads List. The
Department will document the road type and surface condition and general right-of-way width of
each section of road on the Project Road List. Either party may supplement this documentation
with photographs, video or other evidence of the present condition of the road surface, shoulders,
ditches, culverts, bridges or other structures or appurtenances of roads on the Project Road List,
as well as approaches to the roads, utility facilities located within or along the right-of-way, or
any other condition, including third-party activities, that may affect the duties and
responsibilities of the parties under this Agreement. A copy of any such documentation must be
made and provided to the other party within ten business days after the joint review of the roads
on the Project Roads List.

III. Department shall issue a Project Agreement or Project Permit, as appropriate, to
Company to use State Owned Roads and may include any minor or major improvements
required of Company prior to, during or after Project with the assignment of responsibilities of
both parties prior to, during and after the operator has completed well fracturing.

IV. In the Project Agreement/Project Permit, the Department shall not require the use of State Owned Roads other than the roads proposed by Company unless the Department has safety concerns as to the Company's proposed roads. A failure to agree on roads that may otherwise be lawfully used for a particular Project Transportation Usage shall result in the designation of the State Owned Roads proposed by Company, with milepost determinations as designated by Department. This Agreement shall only cover portions of State Owned Roads designated on the Project Roads List.

V. For the duration of Company's Project Transportation Usage of the Stated Owned Roads on the Project Roads List, whether by the Company, its contractors (while working on behalf of Company), agents, independent contractors or suppliers of drilling materials or drilling equipment, or employees, the Company agrees to pay for all reasonable maintenance and repair costs incurred by the Department to repair areas of the State Owned Roads included in the Project Roads List that were directly damaged by Company's Project Transportation Usage, as determined to be reasonably necessary and appropriate by the Department. The Department shall keep a record of all labor performed by Department employees and contractors for such maintenance and repairs and shall send an invoice for the same to Company.

VI. Company shall be responsible for the cost of all maintenance and repairs reasonably necessary to put the existing roadways, bridges and appurtenances on the Project Roads List utilized for the Project Transportation Usage in the condition that existed immediately prior to the Project Transportation Usage. Company shall not be required to pay for maintenance or repairs to put any areas of such roadways, bridges and appurtenances on the Project Roads List in a condition better than the condition that existed immediately prior to the Project Transportation Usage. Company shall also not be required to pay for maintenance or repairs to any areas of these roadways, bridges or appurtenances on the Project Roads List that are not actually utilized for the Project Transportation Usage or for damage not caused by Project Transportation Usage.

VII. Company shall notify the Department in writing of Company's final completion of Project Transportation Usage for particular roadways, bridges and appurtenances on the Project Roads List. Within fourteen days after its receipt of written notification of the completion of the Project Transportation Usage for all roads on a Project Roads List, the Department will review the condition of the roadways, bridges and appurtenances on the Project Roads List actually utilized for the Project Transportation Usage and advise Company of any final repairs reasonably necessary to leave these roads, bridges and appurtenances in a condition reasonably deemed by Department to be equal to their condition prior to commencement of Project Transportation Usage; and, upon completion of all such final repairs by or on behalf of Company and acceptance by Department, the Company shall be released from all further liability for maintenance or repairs to roads, bridges, or appurtenances on said Project Roads List. Any maintenance or repair work under the Project Agreement/Project Permit for roads, bridges or appurtenances on the Project Roads List may be performed by a contractor directly chosen by the Company as approved by the Department, the Department's workforce, or a private contractor hired by the Department through the public bid process in accordance with state law, all of which work shall be subject to the standards and specifications of the Department.

VIII. In order to ensure performance of Company's performance and payment obligations under this Bonding Agreement, the Company shall post a corporate surety bond, hereinafter called "Master Bond", with the Department named as the beneficiary, which form of bond shall be subject to the consent of the Department, not to be unreasonably withheld. The amount and form of the bond shall be in accordance with the Policy as set forth above. However, the amount of the Master Bond does not limit the amount of claims that may be made by the Department against the Company under this Bonding Agreement. The Company shall provide the Master Bond to the Department within one (1) month after the execution of this Bonding Agreement. The Master Bond shall secure the good faith performance of all payment obligations of Company under the terms of this Bonding Agreement respecting the roads, bridges and appurtenances on the Project Roads List for each Project Transportation Usage undertaken by the Company, and shall remain in effect until termination of this Agreement. Company shall not be obligated to provide any other bonds, sureties, or other guarantees of performance to the Department for Company's use of State Owned Roads, except as required in this Agreement.

12/11/2015
IN WITNESS WHEREOF, the parties hereto have caused this Bonding Agreement to be executed by their duly authorized officers effective as of the date first above written.

WEST VIRGINIA DEPARTMENT OF TRANSPORTATION,
DIVISION OF HIGHWAYS

By: ____________________________
   State Highway Engineer

CHEVRON APPALACHIA, LLC

By: ____________________________
   John F. Hammond
   Title: Assistant Secretary

Witness: ________________________
         Michael A. Frazer
         Supply Chain Manager

(To be executed in duplicate)

12/11/2015

ATTORNEY LEGAL DIVISION
WEST VIRGINIA DEPARTMENT OF HIGHWAYS

APPROVED AS TO FORM THIS 12 DAY OF January 2012

APPROVED AS TO FORM THIS

12/11/2015
KNOW ALL MEN BY THESE PRESENTS:

That Chevron Appalachia, LLC
Address 800 Mountain View Drive, Smithfield, PA 15478

as principal, and Liberty Mutual Insurance Company, a corporation, organized
and existing under the laws of the State of MA

with principal office at
175 Berkeley Street Boston, MA 02116

and duly licensed
and authorized to do business in the State of West Virginia, as surety, are held and firmly bound unto the State of West Virginia in the just and full sum of One Million and 00/100

Dollars ($1,000,000.00), for the payment whereof well and truly to be made, we bind ourselves, our heirs, executors, administrators, successors and assigns, jointly and severally by these presents.

WITNESS the signatures and seals of said principal and surety, both thereunto duly authorized this 12th day of December, 2011.

The condition of the above obligation is such, that whereas, the above bound principal has filed with West Virginia Division of Highways its written application for a permit to install ______________________

On all covered roads in the State for drilling activities

along bridges, roads and highways in the State of West Virginia, in manner and form prescribed by The West Virginia Division of Highways, which may result in damage to said bridges, roads, highways, shoulders, and ditches thereof.

Now, if the said Chevron Appalachia, LLC principal, shall properly repair any and all damages that may result to said bridges, roads, highways, shoulders, and ditches, upon which it may perform work, to as good condition as when same was entered upon, as determined by the District Engineer of The West Virginia Division of Highways having jurisdiction over the work permitted, or pay damages therefore in an amount sufficient to properly restore such bridges, roads, highways, shoulders, and ditches to such original condition; and shall reimburse The West Virginia Division of Highways for all inspection costs incurred by it in connection with said work and repairs of such damages and faithfully comply with all terms, provisions and conditions of said permit and save harmless West Virginia Division of Highways and the State of West Virginia from all losses resulting from the conduct of said work or repairs; then this obligation to be void, otherwise to remain in full force and effect.

By execution of this bond the Principal and the Surety affirm that the text above is a verbatim reproduction of The West Virginia Division of Highways Bond Form SM-6, Revised 5-19-05. Attached notarized signatures and Power-of-Attorney are a part of this contract.

(SEAL)

Chevron Appalachia, LLC (SEAL)

By

Umesh Agarwa, Vice president and Treasurer

(SEAL)

Liberty Mutual Insurance Company

By

Marina Tapia, Its Attorney-In-Fact

12/11/2015
STATE OF ____________________________,
COUNTY OF ____________________________, TO-WIT:

I, ____________________________, a Notary Public in and for the County and State aforesaid, do hereby certify that ____________________________, whose name is signed to the foregoing writing, bearing date the ______ day of ________________, ______, has this day acknowledged the same before me in my said County and State.

Given under my hand this ______ day of ________________, ______.
My commission expires ____________________________.

________________________________________
Notary Public

STATE OF ____________________________,
COUNTY OF ____________________________, TO-WIT:

I, ____________________________, a Notary Public in and for the County and State aforesaid, do hereby certify that ____________________________, who signed the foregoing writing bearing date the ______ day of ________________, 20_____, for ____________________________, a corporation, has this day in my said County, before me, acknowledged the said writing to be the act and deed of said corporation.

Given under my hand this ______ day of ________________, 20_____.
My commission expires ____________________________.

________________________________________
Notary Public

SEE ATTACHED CALIFORNIA NOTARY ACKNOWLEDGEMENT FOR SURETY

STATE OF ____________________________,
COUNTY OF ____________________________, TO-WIT:

I, ____________________________, a Notary Public in and for the County and State aforesaid, do hereby certify that ____________________________, who signed the foregoing writing bearing date the ______ day of ________________, 20_____, for ____________________________, a corporation, has this day in my said County, before me, acknowledged the said writing to be the act and deed of said corporation.

Given under my hand this ______ day of ________________, 20_____.
My commission expires ____________________________.

________________________________________
Notary Public

12/11/2015
CALIFORNIA ALL-PURPOSE ACKNOWLEDGMENT

State of California

County of Los Angeles

On DEC 13 2015 before me, Edward C. Spector, Notary Public, personally appeared Marina Tapia who proved to me on the basis of satisfactory evidence to be the person(s) whose name(s) is/are subscribed to the within instrument and acknowledged to me that he/she/they executed the same in his/her/their authorized capacity(ies), and that by his/her/their signature(s) on the instrument the person(s), or the entity upon behalf of which the person(s) acted, executed the instrument.

I certify under PENALTY OF PERJURY under the laws of the State of California that the foregoing paragraph is true and correct.

WITNESS my hand and official seal.

(seal)

Signature

Edward C. Spector, Notary Public

EDWARD C. SPECTOR
Commission # 1905287
Notary Public - California
Los Angeles County
My Comm. Expires Sep 24, 2014

12/11/2015
CALIFORNIA ALL-PURPOSE ACKNOWLEDGMENT

STATE OF CALIFORNIA

County of Contra Costa

On December 13, 2011, before me, Kim Do, Notary Public, personally appeared Uriel Oseguera, who proved to me on the basis of satisfactory evidence to be the person(s) whose name(s) are subscribed to the instrument and acknowledged to me that he/she/they executed the same in his/her/their authorized capacity(ies), and that by his/her/their signature(s) on the instrument the person(s), or the entity upon behalf of which the person(s) acted, executed the instrument.

I certify under PENALTY OF PERJURY under the laws of the State of California that the foregoing paragraph is true and correct.

Witness my hand and official seal.

Signature

Place Notary Seal Above

OPTIONAL

Though the information below is not required by law, it may prove valuable to persons relying on the document and could prevent fraudulent removal and reattachment of this form to another document.

Description of Attached Document

Title or Type of Document: Bond #070010540-Road Bond-State of West Virginia

Document Date: December 12, 2011 Number of Pages: 2

Signer(s) Other Than Named Above: N/A

Capacity(ies) Claimed by Signer(s)

Signer's Name: Uriel Oseguera

☐ Individual
☑ Corporate Officer — Title(s): Vice President and Treasurer
☐ Partner — ☐ Limited ☐ General
☐ Attorney in Fact
☐ Trustee
☐ Guardian or Conservator
☐ Other: ________________

Signer is Representing: Chevron U.S.A. Inc.

☐ Individual
☐ Corporate Officer — Title(s):
☐ Partner — ☐ Limited ☐ General
☐ Attorney in Fact
☐ Trustee
☐ Guardian or Conservator
☐ Other: ________________

Signer is Representing: ____________________________

RIGHT THUMBPRTIN OF SIGNER

Top of thumb here

RIGHT THUMBPRTIN OF SIGNER

Top of thumb here
THIS POWER OF ATTORNEY IS NOT VALID UNLESS IT IS PRINTED ON RED BACKGROUND.

This Power of Attorney limits the acts of those named herein, and they have no authority to bind the Company except in the manner and to the extent herein stated.

LIBERTY MUTUAL INSURANCE COMPANY
BOSTON, MASSACHUSETTS
POWER OF ATTORNEY

KNOW ALL PERSONS BY THESE PRESENTS: That Liberty Mutual Insurance Company (the "Company"), a Massachusetts stock insurance company, pursuant to and by authority of the By-law and Authorization hereinafter set forth, does hereby name, constitute and appoint TRACY ASTON, MARINA TAPIA, EDWARD C. SPECTOR, KO CONRAD, SIMONE GERHARDT, B. ALEMAN, ASHRAF ELMASRY, LISA K. CRAIL, PAUL RODRIGUEZ, DARAVY MADY, KRISTINE MENDEZ, ALL OF THE CITY OF LOS ANGELES, STATE OF CALIFORNIA, as their true and lawful attorneys-in-fact to make, execute, seal, acknowledge and deliver, and on its behalf as surety and as its act and deed, any and all undertakings, bonds, recognizances and other surety obligations in the penal sum not exceeding SEVEN HUNDRED FIFTY MILLION AND 00/100 DOLLARS ($750,000,000.00) each, and the execution of such undertakings, bonds, recognizances and other surety obligations, in pursuance of these presents, shall be as binding upon the Company as if they had been duly signed by the president and attested by the secretary of the Company in their own proper persons.

That this power is made and executed pursuant to and by authority of the following By-law and Authorization:


Any officer of the Company authorized for that purpose in writing by the chairman or the president, and subject to such limitations as the chairman or the president may prescribe, shall appoint such attorneys-in-fact, as may be necessary to act in behalf of the Company to make, execute, seal, acknowledge and deliver as surety any and all undertakings, bonds, recognizances and other surety obligations. Such attorneys-in-fact, subject to the limitations set forth in their respective powers of attorney, shall have full power to bind the Company by their signature and execution of any such instruments and to attach thereto the seal of the Company. When so executed such instruments shall be as binding as if signed by the president and attested by the secretary.

By the following instrument the chairman or the president has authorized the officer or other official named therein to appoint attorneys-in-fact:

Pursuant to Article XIII, Section 5 of the By-Laws, David M. Carey, Assistant Secretary of Liberty Mutual Insurance Company, is hereby authorized to appoint such attorneys-in-fact as may be necessary to act in behalf of the Company to make, execute, seal, acknowledge and deliver as surety any and all undertakings, bonds, recognizances and other surety obligations.

That the By-law and the Authorization set forth above are true copies thereof and are now in full force and effect.

IN WITNESS WHEREOF, this Power of Attorney has been subscribed by an authorized officer or official of the Company and the corporate seal of Liberty Mutual Insurance Company has been affixed thereto in Plymouth Meeting, Pennsylvania this day of 26th day of October, 2011.

LIBERTY MUTUAL INSURANCE COMPANY

By: ____________________________________________

David M. Carey, Assistant Secretary

COMMONWEALTH OF PENNSYLVANIA

ss

COUNTY OF MONTGOMERY

On this 26th day of October, 2011, before me, a Notary Public, personally came David M. Carey, to me known, and acknowledged that he is an Assistant Secretary of Liberty Mutual Insurance Company; that he knows the seal of said corporation; and that he executed the above Power of Attorney and affixed the corporate seal of Liberty Mutual Insurance Company thereto with the authority and at the direction of said corporation.

IN TESTIMONY WHEREOF, I have hereunto subscribed my name and affixed my notarial seal at Plymouth Meeting, Pennsylvania, on the day and year first above written.

By: ____________________________________________

Teresa Pastella, Notary Public

CERTIFICATE

I, the undersigned, Assistant Secretary of Liberty Mutual Insurance Company, do hereby certify that the original power of attorney of which the foregoing is a full, true and correct copy, is in full-force and effect on the date of this certificate, and I do further certify that the officer or official who executed the said power of attorney is an Assistant Secretary specially authorized by the chairman or president to appoint attorneys-in-fact as provided in Article XIII, Section 5 of the By-laws of Liberty Mutual Insurance Company.

This certificate and the above power of attorney may be signed by facsimile or mechanically reproduced signatures under and by authority of the following vote of the board of directors of Liberty Mutual Insurance Company at a meeting duly called and held on the 12th day of March, 1980.

VOTED that the facsimile or mechanically reproduced signature of any assistant secretary of the company, wherever appearing upon a certified copy of any power of attorney issued by the company in connection with surety bonds, shall be valid and binding upon the company with the same force and effect as though manually affixed.

IN TESTIMONY WHEREOF, I have hereunto subscribed my name and affixed the corporate seal of the said company, this 12th day of December, 2011.

By: ____________________________________________

Gregory W. Davenport, Assistant Secretary

12/11/2015
Hydraulic Fracturing Fluid Product Component Information Disclosure

<table>
<thead>
<tr>
<th>Trade Name</th>
<th>Supplier</th>
<th>Purpose</th>
<th>Ingredients</th>
<th>Chemical Abstract Service Number (CAS #)</th>
<th>Comments</th>
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<tbody>
<tr>
<td>Clean Volume (gals)</td>
<td>Carrier</td>
<td>Carrier/Base Fluid</td>
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<td></td>
<td></td>
</tr>
<tr>
<td>Proppant (lbs)</td>
<td>Proppant</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Friction Reducer (Ursaki)</td>
<td>CESA</td>
<td>Friction Reducer</td>
<td>Hydrolyzed Light Dimethylethylsilicate</td>
<td>6474-24-8</td>
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<tr>
<td>Friction Reducer (ASP 90)</td>
<td>Nalco</td>
<td>Friction Reducer</td>
<td>Annonium Sulfate</td>
<td>7783-20-2</td>
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<tr>
<td>Iron Control A</td>
<td>Nalco</td>
<td>Iron Control</td>
<td>Ethylene Glycol</td>
<td>107-21-1</td>
<td></td>
</tr>
<tr>
<td>Biocide (EC 6116a)</td>
<td>Nalco</td>
<td>Biocide</td>
<td>Nitromethylenetetramine</td>
<td>3152-43-5</td>
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<tr>
<td>EC 6116a</td>
<td>Nalco</td>
<td>Biocide</td>
<td>Ethylene Glycol, 1,1-Dibromo-3-nitropropionamide</td>
<td>10222-03-2</td>
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<tr>
<td>EC 6116a</td>
<td>Nalco</td>
<td>Biocide</td>
<td>Polyethylene Glycol</td>
<td>25322-58-3</td>
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<tr>
<td>Scale Inhibitor A</td>
<td>Nalco</td>
<td>Scale Inhibitor</td>
<td>Ethylene Glycol</td>
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<tr>
<td>7.5% HCl Acid</td>
<td>Reagent</td>
<td>Used to open perfs</td>
<td>Hydrochloric Acid</td>
<td>7647-01-0</td>
<td>Mixture</td>
</tr>
<tr>
<td>Gel (CMHFG(lbs))</td>
<td>Ashland</td>
<td>Water Viscosifier</td>
<td>Carboxymethylhydroxypropyl guar blend</td>
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<td></td>
</tr>
<tr>
<td>Breaker (GBL)</td>
<td>Clearwater</td>
<td>Gel Breaker</td>
<td>Ethylene Glycol</td>
<td>107-21-1</td>
<td></td>
</tr>
</tbody>
</table>

* 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 cited 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 is subject to 29 CFR 1910.1200(f) and Appendix G.

12/11/2015
START OF ACCESS ROAD TO WELL (PRIVATE DRIVE)
LATITUDE: 39°51'45.15" N LONGITUDE: 80°41'33.52" W

WELL PIN "1"
LATITUDE: 39° 51' 06.32" N LONGITUDE: 80° 41' 50.81" W

WELL PIN "9"
LATITUDE: 39° 51' 06.69" N LONGITUDE: 80° 41' 50.16" W

CENTER OF WELL PAD
LATITUDE: 39° 51' 07.12" N LONGITUDE: 80° 41' 50.11" W

BASED ON NAD 83 PROJECTIONS

WATERSHED NAME: UPPER OHIO-WHEELING
RECEIVING STREAM (USGS BLUE LINE): UN'TS TO GRAVE CREEK
DISTANCE TO NEAREST USGS BLUE LINE STREAM = ±1,071 L.F.
NO ANTICIPATED WETLAND IMPACTS
SITE LOCATION MAP
GLEN EASTON QUAD
1" = 2000'

NOTES:
1. THE UNDERGROUND UTILITIES SHOWN HEREON HAVE NOT BEEN PHYSICALLY LOCATED
by the surveyor. However, the information was obtained from existing plans and/or
surveys provided. The Gateway Engineers, Inc. makes no guarantee that the underground
utilities shown comprise all such utilities in the area. Other in-house air conditioned
the surveying engineers, inc. makes no guarantee that the underground utilities shown
compromise all such utilities in the area. Other information supplied. The surveying
engineers, inc. makes no guarantee that the underground utilities shown comprise all
such utilities in the area. Other in-house air conditioned surveys provided. The Gateway
engineers, inc. makes no guarantee that the underground utilities shown comprise all
such utilities in the area. Other information supplied. The Gateway Engineers, Inc. makes
no guarantee that the underground utilities shown comprise all such utilities in the area.

2. IN THE PREPARATION OF THIS PLAN, THE CUTS AND/OR FILLS WERE SHOWN WITHOUT
KNOWLEDGE OF THE CAPABILITIES OF THE SOILS LOCATED ON THE SITE. THE
GATEWAY ENGINEERS, INC. MAKES NO REPRESENTATION IN THIS PLAN OF THE
STABILITY OF THE CUTS AND/OR FILLS SHOWN. ADJUSTMENTS TO PROPOSED CUTS
AND/OR FILLS MAY BE REQUIRED BASED ON SUBSURFACE CONDITIONS AND
MATERIAL ENCOUNTERED.

3. GRADE ALL CHANNELS TO PROVIDE POSITIVE FLOW TO OUTFALL.

4. SURROUNDING TOPOGRAPHICA DATA PROVIDED FROM AVMAP. TOPOGRAPHY SHOWN
FOR REPRESENTATION PURPOSES ONLY AND HAS NOT BEEN FIELD VERIFIED.

5. THERE SHALL BE NO DISCHARGE ALLOWED FROM THE WELL PAD DURING DRILLING
AND COMPLETION ACTIVITIES.

6. NO SCHOOL OR PUBLIC BUILDING WITHIN 1/2 MILE OF LIMITS OF DISTURBANCE.

LIMITS OF DISTURBANCE = 22.0 ACRES

LEGEND

STREET LINE
GAS LINES
OVERHEAD WIRE
OVERHEAD TELEPHONE WIRE
MAJOR DIVIDING BOUNDARY
MINOR DIVIDING BOUNDARY
PROPERTY LINE
TREE LINE
GUIDE RAIL
EXISTING POLE
GAS METER
LIGHT POLE
TANKS
CONTAINMENT BERN
CONTAINMENT BERM
LIMITS OF DISTURBANCE
SILT FENCE
SLURP CROSS DRAIN
SLIT FENCE (1' HJP)
SLIT FENCE (1' HJP)
PROPOSED WELL HEAD
RECLAIM WITH SILT PROTECTION
ROCK FILTER
NEW EXP. AREA
TEMPORARY INJECTION CHANNEL
CUT SLOPE DITCH
ACCESS ROAD CUT DITCH
STONE CONSTRUCTION ENTRANCE
HAY ROLL

APPROVED
WVDEP OOG
3/30/2015

12/11/2015

811
Know what’s below.
Call before you dig.
SITE LOCATION MAP
GLEN EASTON QUAD
1" = 2000'

NOTES:
1. THE UNDERGROUND UTILITIES SHOWN HEREIN HAVE NOT BEEN PHYSICALLY LOCATED BY THE SURVEYOR. HOWEVER, THE INFORMATION WAS OBTAINED FROM EXISTING PLANS AND SURFACE FACILITIES. THE GATEWAY ENGINEERS, INC. MAKES NO GUARANTEE THAT THE UNDERGROUND UTILITIES SHOWN CORRESPOND TO ALL SUCH UTILITIES IN THE AREA, EITHER IN SERVICE OR ABANDONED. THE GATEWAY ENGINEERS, INC. MAKES NO REPRESENTATION OR GUARANTEE OF THE LOCATION INDICATED, ALTHOUGH THEY ARE SHOWN AS ACCURATELY AS POSSIBLE FROM THE INFORMATION AVAILABLE.
3. GRADE ALL CHANNELS TO PROVIDE POSITIVE FLOW TO OUTFALL.
4. SURROUNDING TOPOGRAPHICAL DATA PRODUCED FROM AV MAP - TOPOGRAPHY SHOWN FOR REPRESENTATION PURPOSES ONLY AND HAS NOT BEEN FIELD VERIFIED.
5. THERE SHALL BE NO DISCHARGE ALLOWED FROM THE WELL PAD DURING DRILLING AND COMPLETION ACTIVITIES.
6. NO SCHOOLS OR PUBLIC BUILDINGS WITHIN 1/2 MILE OF LIMITS OF DISTURBANCE.

LIMITS OF DISTURBANCE = 22.0 ACRES

LEGEND
- STREAM LINE
- GAS LINE
- CABLE WIRE
- SUBSURFACE TELEPHONE WIRE
- CONTOURS (MAJOR)
- CONTOURS (MINOR)
- GAS LINE RIGHT-OF-WAY
- PROPERTY LINE
- FENCE LINE
- GUIDE RAIL
- EXISTING PILE
- GAS METER
- LIGHT PILE
- ENTRANCE
- LIMITS OF DISTURBANCE
- SUPER SALT FENCE
- CULVERT/CROSS DRAIN
- CONTAMINATE BARRIER
- SALT FENCE (1.0'-HIGH)
- SALT FENCE (0.75'-LOW)
- PAD WITH WELD PROTECTION
- ROCK FILTER
- RIF RIF AREA
- ELEVATION MARKERS (CHANNEL)
- ACCESS ROAD CUT EDGE
- SERVICE CONSTRUCTION ENTRANCE
- HYDROSEED

12/11/2015