November 06, 2015

WELL WORK PLUGGING PERMIT

Plugging

This permit, API Well Number: 47-5101780, 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.

Upon completion of the plugging well work, the above named operator will reclaim the site according to the provisions of WV Code 22-6-30. The above named operator will also file, as required in WV Code 22-6-23, an affidavit on form WR-38 by two experienced persons in the operator's employment and the Oil and Gas inspector that the work authorized under this permit was performed and a description given. Failure to abide by all statutory and regulatory provisions governing all duties and operations here under may result in suspensions or revocation of this permit and in addition may result in civil and/or criminal penalties being imposed upon the operator.

This permit will expire in two (2) years from date of issue. If there are any questions, please free to contact me at (304) 926-0499 ext. 1654.

James Martin
Chief

Operator's Well No: CURRY 3H
Farm Name: CURRY, JAMES E.

API Well Number: 47-5101780
Permit Type: Plugging
Date Issued: 11/06/2015

Promoting a healthy environment.
PERMIT CONDITIONS

West Virginia Code § 22-6-11 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. All pits must be lined with a minimum of 20 mil thickness synthetic liner.

2. In the event of an accident or explosion causing loss of life or serious personal injury in or about the well or while working on the well, the well operator or its contractor shall give notice, stating the particulars of the accident or explosion, to the oil and gas inspector and the Chief within twenty-four (24) hours.

3. Well work activities shall not constitute a hazard to the safety of persons.
APPLICATION FOR A PERMIT TO PLUG AND ABANDON

4) Well Type: Oil ____/ Gas X____/ Liquid injection ____/ Waste disposal ____/ (If "Gas, Production ____ or Underground storage ____) Deep ____/ Shallow ____

5) Location: Elevation 1317” Watershed Middle Grave Creek - Grave Creek District Washington County Marshall Quadrangle Moundsville, WV 7.5’

6) Well Operator Chevron Appalachia, LLC 7) Designated Agent

Address 800 Mountain View Drive

Smithfield, PA 15478

8) Oil and Gas Inspector to be notified Jim Nicholson 9) Plugging Contractor

Name

Address P.O. Box 44

304-552-3874

10) Work Order: The work order for the manner of plugging this well is as follows: See attached

Notification must be given to the district oil and gas inspector 24 hours before the work can commence.

Work order approved by inspector Jim Nicholson Date

10/22/15

RECEIVED
Office of Oil and Gas
10/27/2015

WV Department of Environmental Protection
11/06/2015

STATE OF WEST VIRGINIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION
OFFICE OF OIL AND GAS
Curry 3H P&A Procedure

Plug Set from 869' to 43'
2. TIH with 3 1/2" 12.95# workstring to 5' above float collar
3. Break circulation
4. Pressure test lines
5. Pump 6% Bentonite spacer
6. Pump 128 bbls of 16 ppg Class A with up to 3% Calcium Chloride
7. Drop wiper ball
8. Displace plug
9. POOH slowly (<30'/min)
10. Circulate hole clean above TOC—43'
11. POOH
12. N/D BOPE and skid rig

Offline
1. Cut off 30” landing ring, 20” hanger, and 13 5/8” UH2 WS.
2. Install permanent monument (pipe to surface)
   - Cement remaining wellbore to surface
   - Minimum diameter of 6”
   - Pipe shall extend to a depth of 10’ below GL into well
   - Pipe shall extend to a depth of >30” above GL
   - Monument shall be sealed with concrete
   - API well identification number shall be stamped on monument with lettering no smaller than 1/2"

RECEIVED
Office of Oil and Gas
OCT 27 2015
WV Department of Environmental Protection
**Curry 3H As Drilled**

<table>
<thead>
<tr>
<th>Casing</th>
<th>DEPTH</th>
<th>Inclination</th>
<th>HOLE SIZE</th>
<th>CASING SPECS</th>
<th>CEMENT INFO</th>
<th>GENERAL INFO</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
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<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Depth to bottom of 30&quot; landing ring</td>
<td>37.76</td>
<td></td>
<td>36&quot;</td>
<td>Conductor</td>
<td>Cement to surface</td>
<td></td>
</tr>
<tr>
<td>20.00&quot; Casing</td>
<td>438'</td>
<td></td>
<td></td>
<td>Fresh Water Casing</td>
<td>20&quot; 8 1/2 J-55 BTC</td>
<td></td>
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<tr>
<td></td>
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<td></td>
<td></td>
<td></td>
<td>6.456&quot; wall</td>
<td>Cement to surface</td>
</tr>
<tr>
<td>13 3/8&quot; Casing</td>
<td>697'</td>
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<td></td>
<td>Cool Casing</td>
<td>13-3/8&quot; 54.54 J-55 BTC</td>
<td></td>
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<tr>
<td></td>
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<td></td>
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<td></td>
<td>6.456&quot; wall</td>
<td>Cement to surface</td>
</tr>
</tbody>
</table>

**Marshall Co., WV**

**October 14, 2015**

**Ground Level Elevation:** 1,320'

**All depths from K3 sl.**

**RECEIVED**

Office of Oil and Gas

OCT 27 2015

WV Department of Environmental Protection
## Curry 3H P&A

### Casing & Cementing Details

<table>
<thead>
<tr>
<th>Casing Formation</th>
<th>DEPTH</th>
<th>Inclination</th>
<th>HOLE SIZE</th>
<th>CASING SPEC</th>
<th>CEMENT INFO</th>
<th>GENERAL INFO</th>
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<tbody>
<tr>
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<td>37.76</td>
<td>11&quot;</td>
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<td>36&quot; Casing</td>
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<tr>
<td>Top of Flag</td>
<td>-43</td>
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<tr>
<td>20.00&quot; Casing</td>
<td>-43</td>
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<tr>
<td>13 3/8&quot; Casing</td>
<td>697</td>
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</tr>
</tbody>
</table>

**Ground Level Elevation:** 1,320'
**All depths from KB on:** 33'

### Fresh Water Casing
- 20" 55# J-55 BTC
- 0.438" wall
- Cement to surface

### Cool Casing
- 13-3/8" 54.5# J-55 BTC
- 0.459" wall
- Cement to surface
State of West Virginia
Department of Environmental Protection - Office of Oil and Gas
Well Operator's Report of Well Work

API 47-051-01780  County Marshall  District Washington
Quad Moundsville  Pad Name Curry  Field/Pool Name
Farm name Curry  Well Number 3H

Operator (as registered with the OOG) Chevron Appalachia, LLC
Address 600 Mountain View Drive  City Smithfield  State PA  Zip 15478

As Drilled location NAD 83/UTM
Top hole Northing  Easting
Landing Point of Curve Northing  Easting
Bottom Hole Northing  Easting

Elevation (ft) 1317' GL  Type of Well #New #Existing  Type of Report #Interim #Final
Permit Type □ Deviated □ Horizontal □ Horizontal 6A □ Vertical  Depth Type □ Deep □ Shallow
Type of Operation □ Convert □ Deepen □ Drill □ Plug Back □ Redrilling □ Rework □ Stimulate
Well Type □ Brine Disposal □ CBM □ Gas □ Oil □ Secondary Recovery □ Solution Mining □ Storage □ Other
Type of Completion □ Single □ Multiple  Fluids Produced □ Brine □ Gas □ NGL □ Oil □ Other
Drilled with □ Cable □ Rotary

Drilling Media Surface hole □ Air □ Mud □ Fresh Water  Intermediate hole □ Air □ Mud □ Fresh Water □ Brine
Production hole □ Air □ Mud □ Fresh Water □ Brine
Mud Type(s) and Additive(s)

Date permit issued 1/14/2015  Date drilling commenced 3/19/2015  Date drilling ceased 5/6/2015
Date completion activities began  Date completion activities ceased
Verbal plugging (Y/N) N  Date permission granted  Granted by

Please note: Operator is required to submit a plugging application within 5 days of verbal permission to plug

Freshwater depth(s) ft 1/2' stream @ 355' GL per mud log
Salt water depth(s) ft 819' GL per mud log
Coal depth(s) ft Cavern(s) encountered (Y/N) depths
Is coal being mined in area (Y/N) No, it is in the seated and abandoned Alexander Mine

Received Office of Oil and Gas
OCT 27 2015
Reviewed by:
WV Department of Environmental Protection
11/06/2015
## Casing Strings

<table>
<thead>
<tr>
<th>Hole</th>
<th>Casing Size</th>
<th>Depth</th>
<th>New or Used</th>
<th>Grade</th>
<th>Basket Depth(s)</th>
<th>Did cement circulate (Y/N)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Conductor</td>
<td>36</td>
<td>30&quot;</td>
<td>80'</td>
<td>New</td>
<td>X-42; 118.76#</td>
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<tr>
<td>Surface</td>
<td>26</td>
<td>20&quot;</td>
<td>406'</td>
<td>New</td>
<td>J-55; 94#</td>
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<tr>
<td>Coal</td>
<td>17 1/2</td>
<td>13 3/8&quot;</td>
<td>865'</td>
<td>New</td>
<td>J-55; 54.50#</td>
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<tr>
<td>Intermediate 1</td>
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<td>Intermediate 2</td>
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<td>Packer type and depth set</td>
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**Comment Details**

---

## Cement Data

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<tr>
<th>Casing String</th>
<th>Class/Type of Cement</th>
<th>Number of Sacks</th>
<th>Slurry wt (ppg)</th>
<th>Yield (ft³/ft)</th>
<th>Volume (ft³)</th>
<th>Cement Top (MD)</th>
<th>WOC (hrs)</th>
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<tr>
<td>Conductor</td>
<td>Bulk</td>
<td>48</td>
<td>15.60</td>
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<td>908</td>
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<td>Class A</td>
<td>757</td>
<td>15.6</td>
<td>1.20</td>
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<td>Coal</td>
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<td>903</td>
<td>15.6</td>
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<td>Intermediate 2</td>
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<td>Intermediate 3</td>
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<tr>
<td>Production</td>
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<td>Tubing</td>
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</table>

**Drillers TD (ft) 925'**

**Loggers TD (ft) 925'**

**Deepest formation penetrated**

**Plug back procedure**

---

**Kick off depth (ft)**

**Check all wireline logs run**

- caliper
- density
- deviated/directional
- induction
- neutron
- resistivity
- gamma ray
- temperature
- sonic

**Well cored**

- Yes
- No
- Conventional
- Sidewall

**Were cuttings collected**

- Yes
- No

**Describe the centralizer placement used for each casing string**

- One bow spring centralizer every joint on the water string. Two bow centralizers every 2 joints on the mud string.

---

**Was well completed as shot hole**

- Yes
- No

**Details**

---

**Was well completed open hole?**

- Yes
- No

**Details**

---

**Weren't tracers used?**

- Yes
- No

**Type of tracer(s) used**

---

**Received**

Office of Oil and Gas

**Oct 27 2015**

---

**WV Department of Environmental Protection**

11/06/2015
**PERFORATION RECORD**

<table>
<thead>
<tr>
<th>Stage No</th>
<th>Perforation Date</th>
<th>Perforated from MD ft</th>
<th>Perforated to MD ft</th>
<th>Number of Perforations</th>
<th>Formation(s)</th>
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Please insert additional pages as applicable.

**STIMULATION INFORMATION PER STAGE**

Complete a separate record for each stimulation stage.

<table>
<thead>
<tr>
<th>Stage No</th>
<th>Stimulations Date</th>
<th>Ave Pump Rate (BPM)</th>
<th>Ave Treatment Pressure (PSI)</th>
<th>Max Breakdown Pressure (PSI)</th>
<th>[S]P (PSI)</th>
<th>Amount of Proppant (lbs)</th>
<th>Amount of Water (bbls)</th>
<th>Amount of Nitrogen/other (units)</th>
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Please insert additional pages as applicable.
API 47-051-01780
Farm name: Curry
Well number: 3H

PRODUCING FORMATION(S)

<table>
<thead>
<tr>
<th></th>
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<th>TVD</th>
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DEPTHS

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</table>

Please insert additional pages as applicable.

GAS TEST  ☐ Build up  ☐ Drawdown  ☐ Open Flow  OIL TEST  ☐ Flow  ☐ Pump

SHUT-IN PRESSURE
Surface: __________ psi  Bottom Hole: __________ psi  DURATION OF TEST: __________ hrs

OPEN FLOW
Gas: __________ mcfd  Oil: __________ bpd  NGL: __________ bpd  Water: __________ bpd  GAS MEASURED BY
☐ Estimated  ☐ Orifice  ☐ Pilot

<table>
<thead>
<tr>
<th>LITHOLOGY/FORMATION</th>
<th>TOP DEPTH IN FT</th>
<th>BOTTOM DEPTH IN FT</th>
<th>TOP DEPTH IN FT</th>
<th>BOTTOM DEPTH IN FT</th>
<th>TYPE OF FLUID (FRESHWATER, BRINE, OIL, GAS, H2S, ETC.)</th>
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</thead>
<tbody>
<tr>
<td>SLTS / SS</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>Lithologies are taken from mudlog KB (15' above GL)</td>
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<td>LS / SLTS</td>
<td>500</td>
<td>500</td>
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<td>LS</td>
<td>700</td>
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<td>LS / SLST</td>
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<td>944</td>
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</tbody>
</table>

Please insert additional pages as applicable.

Drilling Contractor: SEE ATTACHED

Address: ____________________________  City: ____________________________  State: ____________  Zip: ____________

Logging Company: N/A

Address: ____________________________  City: ____________________________  State: ____________  Zip: ____________

Cementing Company: Baker Hughes

Address: 5373 West Alabama, Suite 300  City: Houston  State: TX  Zip: 77056

Stimulating Company: N/A

Address: ____________________________  City: ____________________________  State: ____________  Zip: ____________

Completed by: Jackie M. Scholar

Signature: ____________________________  Title: Regulatory Compliance Team Lead  Date: 10/20/2015

Submittal of Hydraulic Fracturing Chemical Disclosure Information  Attach copy of FRACFOCUS Registry

RECEIVED
Office of Oil and Gas
OCT 27, 2015

WV Department of Environmental Protection
<table>
<thead>
<tr>
<th>Name</th>
<th>Driller</th>
<th>Name</th>
<th>Driller</th>
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</thead>
<tbody>
<tr>
<td>Rocky Mountain Drilling</td>
<td>Highlands Drilling LLC</td>
<td>185 North Vernal Avenue, Suite 2</td>
<td>900 Virginia Street East</td>
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<tr>
<td>Vernal, UT 84078</td>
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<tr>
<td></td>
<td></td>
<td>City – State – Zip</td>
<td>Charleston, WV 25301</td>
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</table>
STATE OF WEST VIRGINIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS
NOTICE OF APPLICATION TO PLUG AND ABANDON A WELL

4) Surface Owner(s) to be served:
   (a) Name: James E. Curry
      Address: 7059 Fairmont Pike Road
                Moundsville, WV 26041

5) (a) Coal Operator
   Name: Murray Energy Corporation
      Address: 46226 National Road
                St. Clairsville, OH 43950

(b) Name: Consolidated Coal Company
      Address: 1000 Consol Energy Drive
                Canonsburg, PA 15317

(c) Name
      Address

6) Inspector
   Name: Jim Nicholson
      Address: P.O. Box 44
                Moundsville, WV 26041
      Telephone: 304-552-3874

TO THE PERSONS NAMED ABOVE: You should have received this Form and the following documents:

1. The application to Plug and Abandon a Well on Form WW-4B, which sets out the parties involved in the work and describes the well site and the plugging work order;
2. The plat (surveyor’s map) showing the well location on Form WW-6.

The reason you received these documents is that you have rights regarding the application which are summarized in the instructions on the reverse side. However, you are not required to take any action at all.

Take notice that under Chapter 22-6 of the West Virginia Code, the undersigned well operator proposes to file or has filed this Notice and Application and accompanying documents for a permit to plug and abandon a well with the Chief of the Office of Oil and Gas, West Virginia Department of Environmental Protection, with respect to the well at the location described on the attached Application and depcited on the attached Form WW-6. Copies of this Notice, the Application, and the plat have been mailed by registered or certified mail or delivered by hand to the person(s) named above (or by publication in certain circumstances) on or before the day of mailing or delivery to the Chief.

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

Well Operator: Chevron Appalachia, LLC
By: Jenny Hayes
Its: Permitting Team Leader
Address: 800 Mountain View Drive
          Smithfield, PA 15478
Telephone: 724-564-3700

Subscribed and sworn before me this 14th day of October, 2015
Notary Public
Oil and Gas Privacy Notice

The Office of Oil and Gas processes your personal information, such as name, address and phone number, for 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. This 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.

OCT 27 2015
11/06/2015
STATE OF WEST VIRGINIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION
OFFICE OF OIL AND GAS

FLUIDS/ CUTTINGS DISPOSAL & RECLAMATION PLAN

Operator Name: Chevron Appalachia, LLC
Watershed (HUC 10): Middle Grave Creek - Grave Creek

Operator's Well No.: 34
Watershed Quadrangle: Moundsville, WV 7.5'

Do you anticipate using more than 5,000 bbls of water to complete the proposed well work? Yes [ ] No [x]
Will a pit be used? Yes [ ] No [x]

If so, please describe anticipated pit waste:

Will a synthetic liner be used in the pit? Yes [ ] No [x]

Proposed Disposal Method For Treated Pit Wastes:
- Land Application
- Underground Injection (UIC Permit Number)
- Reuse (at API Number)
- Off Site Disposal (Supply form WW-9 for disposal location)
- Other (Explain)

Will closed loop system be used? If so, describe: N/A

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

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

Additives to be used in drilling medium?

Drill cuttings disposal method? Leave in pit, landfill, removed offsite, etc. N/A

- If left in pit and plan to solidify what medium will be used? (cement, lime, sawdust)
- Landfill or offsite name/permit number?

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

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

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

Company Official Signature: [Signature]
Company Official (Typed Name): Jenny Hayes
Company Official Title: Permitting Team Lead

Subscribed and sworn before me this 14th day of October, 2015

Notarized Public: Kristen Brooks
Notary Public
My commission expires Sept 2, 2018
Form WW-9

Chevron Appalachia, LLC

Proposed Revegetation Treatment: Acres Disturbed 19.5
Prevegetation pH 6.5-7.0

Lime 2,000 lb/acre Tons/acre or to correct to pH 6.5-7.0
Fertilizer type 10-20-20
Fertilizer amount 1,000 lbs/acre
Mulch 2 Tons/acre

Seeds Mixtures

Temporary

Seed Type
Annual Ryegrass Mixture 10 lb per acre (3/1-5/15) and (8/18-4/30)
Barley or Oats (local seed) 50 lb per acre (3/1-5/15)
Millet (Hungarian, German, or Japanese) 50 lb per acre (5/18-8/15)
Cereal Rye or Cereal Wheat - 50 lb per acre (8/16-4/30)

Seed Type
Kentucky 31 Fescue - 20 lb/ac Annual Rye Grass
Red Fescue (PENN LAWN) 20 lb/ac and 41 lb/ac
Crownvetch 20 lb/ac Hard Fescue Mixture 63 lb/ac
Hard Fescue Mix 63 lb/ac Annual Ryegrass (8/1-5/15) 7lb/ac (cut & fill slopes)
Annual Ryegrass (8/1-5/15) 12 lb/ac (all other areas) Weeping Lovegrass (5/15-8/1) 5lb/ac

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: Jim Nicholson

Title: Oil and Gas Inspector
Date: 10/22/15

Field Reviewed? (✓) Yes (___) No

✓
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**December 18, 2014**