October 21, 2014

WELL WORK PLUGGING PERMIT

Plugging

This permit, API Well Number: 47-1703350, issued to CHESAPEAKE APPALACHIA, L.L.C., 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: A-1428
Farm Name: MOSS, DAVID KENT
API Well Number: 47-1703350
Permit Type: Plugging
Date Issued: 10/21/2014

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

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 X

5) Location: Elevation 1228'  
District: Greenbrier

Watershed: Dry Fork  
County: Doddridge  
Quadrangle: Big Isaac

6) Well Operator: Chesapeake Appalachia, LLC  
Address: P.O. Box 1300  
Jane Lew, WV 26378

Designated Agent: Eric B. Gillespie  
Address: P.O. Box 8070  
Charleston, WV 25301

7) Oil and Gas Inspector to be notified  
Name: Douglas Newlon  
Address: 4060 Dutchman Road  
Macfarlan, WV 26148

8) Plugging Contractor  
Name: R & J Well Service  
Address: P.O. Box 37  
Huaysville, KY 41640

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

MIRU service rig (Blow Down Well). TOOH w 2 3/8" log to surface. TH w 2 3/8" log to 5300' +/- Circulate hole w/ 87 bbl of 6% gel. Circulate hole w/ 87 bbl of 6% gel.

TOOH w 2 3/8" log to 5024'. Pump 8 sks of Class A cement flush w/ 19.3 bbl 6% gel (103 Plug 4981' - 5054'). TOOH w/ 2 3/8" log to 4981', reverse circulate until clean, pump bottoms up with 6% gel. TOOH w/ 2 3/8" log to 4981', let plug set. TH w/ 2 3/8" and tag plug. TOOH w/ 2 3/8" log to 4942' +/- Pump 8 sks of Class A cement flush w/ 13.2 bbl 6% gel (103 Plug 3419' - 3522'). TOOH w/ 2 3/8" log to 3419', reverse circulate until clean, pump bottoms up with 6% gel. TOOH w/ 2 3/8" tubing, let plug set. MIRU wireline unit tag plug.

Shoe off 4 1/2" csg at 1630' +/- and retrieve csg, ROMO wireline unit. TH w/ 2 3/8" log to 1635'. Pump 18 sks of Class A cement flush w/ 6.9 bbl 6% gel (103 Plug 1595'-1605').

TOOH w/ 2 3/8" log to 1595', reverse circulate until clean, pump bottoms up with 6% gel. TOOH w/ 2 3/8" log to 1595', let plug set. TH w/ 2 3/8" and tag plug. TOOH w/ 2 3/8" to 1378'.

Pump 4 sks of Class A cement, flush w/ 4.3 bbl of 6% gel (254 Plug 1124'-1137'). TOOH w/ 2 3/8" log to 1124', reverse circulate until clean, pump bottoms up with 6% gel.

TOOH w/ 2 3/8" log to 1024', let plug set. TH w/ 2 3/8" and tag plug. TOOH w/ 2 3/8" log to 206' +. Pump 62 sks of Class A cement, or CTS. TOOH w/ 2 3/8" log to surface.

Erect 36" Monument 33 ROMO. Reclaim Location.

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

Work order approved by inspector___________________________

RECEIVED
Office of Oil and Gas
SEP 05 2014

WV Department of Environmental Protection

10/24/2014
Safety is the highest priority. Hold well site safety meetings prior to each significant operation. Review critical parameters as well as emergency action plans.

MIRU construction equipment to BR&L and Earth Pit (remove any tanks, separators, well lines, meter runs, etc.)

MIRU service rig (Blow Down Well)

TOOH w 2 3/8" tbg to surface

TIH w/ 2 3/8" tbg to 5300'+/-

Circulate hole w/ 87 bbl of 6% gel

TOOH w 2 3/8" tbg to 5084'

Pump 8 sks of Class A cement flush w/ 19.3 bbl 6% gel (103' Plug 4981' - 5084')

TOOH w/ 2 3/8" tbg to 4981', reverse circulate until clean, pump bottoms up with 6% gel

TOOH w/ 2 3/8" tubing to 4881', let plug set

TIH w/ 2 3/8 and tag plug, TOOH w/ 2 3/8" tbg to 3942'+/-

Pump 21 sks of Class A cement flush w/ 15.2 bbl 6% gel (262' Plug 3680' - 3942')

TOOH w/ 2 3/8" tbg to 3680', reverse circulate until clean, pump bottoms up with 6% gel

TOOH w/ 2 3/8" tubing to 3580', let plug set

TIH w/ 2 3/8 and tag plug, TOOH w/ 2 3/8" tbg to 3522'+/-

Pump 8 sks of Class A cement flush w/ 13.2 bbl 6% gel (103' Plug 3419' - 3522')

TOOH w/ 2 3/8" tbg to 3419', reverse circulate until clean, pump bottoms up with 6% gel

TOOH w/ 2 3/8" tubing, let plug set

MIRU wireline unit, tag plug

Shoot off 4 1/2" csg off @ 1600'+/- and retrieve csg, RDMO wireline unit

TIH w/ 2 3/8" tbg to 1650'+/-

Pump 18 sks of Class A cement flush w/ 6.0 bbl 6% gel (100' Plug 1550'-1650')

TOOH w/ 2 3/8" tbg to 1550', reverse circulate until clean, pump bottoms up with 6% gel

TOOH w/ 2 3/8" tbg to 1450', let plug set

TIH w/ 2 3/8" and tag plug, TOOH w/ 2 3/8" to 1378'

Pump 74 sks of Class A cement, flush w/ 4.3 bbl of 6% gel (254' Plug 1124'-1378')

TOOH w/ 2 3/8" tbg to 1124', reverse circulate until clean, pump bottoms up with 6% gel

TOOH w/ 2 3/8" tbg to 1024', let plug set

TIH w/ 2 3/8" and tag plug, TOOH w/ 2 3/8" tbg to 200'+/-

Pump 62 sks of Class A cement, or CTS

TOOH w/ 2 3/8" tbg to surface

Erect 36" Monument

RDMO, Reclaim Location
Well Data

Location (Surface)  Lat 39.1804  Long. -80.5737
TD  5350'

Casing and Tubular Data

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<td>Production</td>
<td>4 1/2&quot;</td>
<td>10.5#</td>
<td>5156</td>
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Capacities

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<td>0.3659</td>
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</table>

Driving Directions to Nutter 2 (911428)

From Jane Lew:
1. Head northwest on Co Rd 7/Hackers Creek Rd toward Co Rd 14/Lifes Run Rd (0.9 mi)
2. Turn right onto US-19 N/Main St - Continue to follow US-19 N (3.9 mi)
3. Turn left onto Co Route 3/5/Kincheloe Run Rd - Continue to follow Kincheloe Run Rd (1.6 mi)
4. Turn right onto Co Route 35/Kincheloe Run Rd (2.2 mi)
5. Continue onto Co Route 35/11 (0.4 mi)
6. Continue onto Co Route 35/Kincheloe Run Rd - Continue to follow Co Route 35 (1.3 mi)
7. Continue onto Co Rd 35/Kincheloe Rd - Continue to follow Kincheloe Rd (2.4 mi)
8. Turn right onto Co Route 35/Kincheloe Rd (0.9 mi)
9. Turn left toward Co Route 25/13 (0.7 mi)
10. Turn left onto Co Route 25/13 (0.4 mi)
11. Turn left onto Co Route 27/Dry Fork (0.4 mi)
12. Lease Road will be on left
Well ID 911428

Friday 12/21/2012

H₂O @ 139

8 5/8" 20# csg set @ 1174

Elevation

TOC

Speechley Perf 3469 3472
Speechley Perf 3730 3740
Balltown Perf 3884 3892
2 3/8" tbg @ 5026

Benson Perf 5031 5034

4 1/2" 10.5#csg set @ 5156

TD 7 7/8" hole @ 5350

Cement
Perforated Zone
Cast Iron Bridge Plug

Coal
H₂O
Well ID 911428

Friday 12/21/2012

H2O @
Surface Plug
139
0
200

8 5/8" 20# csg set @
Elevation & 8 5/8 Plug
1174
1124
1378

4 1/2 Casing Plug
1550
1650

TOC
1792

Perf
Perf Plug
3469
3419
3472
3522

Perf
Perf Plug
3730
3680
3740
3942
Perf
3884
3892

2 3/8" ttg @
5026

Perf
Perf Plug
5031
4981
5034
5084

4 1/2" 10.5#csg set @
5156

TD 7 7/8" hole @
5350
OIL and GAS DIVISION

WELL OPERATOR'S REPORT OF DRILLING, FRACTURING AND/OR STIMULATING, OR PHYSICAL CHANGE

WELL TYPE: OIL X/ GAS X / LIQUID INJECTION / WASTE DISPOSAL

LOCATION: Elevation: 1328' Watershed: Dry Fork District: Greenbrier County: Doddridge Quadrangle: Big Isaac 7.5'

COMPANY: ALAMCO, INC.
ADDRESS: 200 West Main Street
Clarksburg, West Virginia 26301

DESIGNATED AGENT: ALAMCO, INC.
ADDRESS: 200 West Main Street
Clarksburg, West Virginia 26301

SURFACE OWNER: David Kent Moss
ADDRESS: Rt. 2, Box 201, Buckhannon, WV 26201

MINERAL RIGHTS OWNER: Don H. Nutter et al
ADDRESS: 147 Vallen St., Salem, WV 26246

OIL AND GAS INSPECTOR FOR THIS WORK: Mike

PERMIT Issued: August 23, 1984
DRILLING COMMENCED: August 31, 1984
DRILLING COMPLETED: September 10, 1984

IF APPLICABLE: PLUGGING OF DRY HOLE ON CONTINUOUS PROGRESSION FROM DRILLING OR RENEWING, VERBAL PERMISSION OBTAINED ON

GEOLOGICAL TARGET FORMATION: Benson
DEPTH: 5200 FEET

Depth of completed well: 5350 feet
Rotary x / Cable Tools
Water Strata depth: Fresh 1600 feet
Salt feet
Coal seam depth: None listed
Is coal being mined in this area? No

OPEN FLOW DATA
Producing formation: Benson, Balltown, Speedley-WarrenPay, zone depth: See Back feet
Gas: Initial open flow: No Show MCF/D (Oil) Initial open flow: No Show Bbl/D
Final open flow: 1400 MCF/D Final open flow: 50 Bbl/D
Time of open flow between initial and final tests: 2 hours
Static rock pressure: 950 psig (surface measurement) after 16 hours shut-in
(If applicable due to multiple completion--)
Second producing formation: Pay zone depth: feet
Gas: Initial open flow: MCF/D Oil: Initial open flow: Bbl/D
Final open flow: MCF/D Final open flow: Bbl/D
Time of open flow between initial and final tests: hours
Static rock pressure: psig (surface measurement) after hours shut-in
(continue on reverse side)
FORM IV-35
(REVERSE)

DETAILS OF PERFORATED INTERVALS, FRACTURING OR STIMULATING, MECHANICAL CHANGE ETC.

Well was fractured September 20, 1984
Perforations: 3469 – 3472
3730 – 3734
3737 – 3740 Speechley-Warren
3884 – 3892 Balltown
5031 – 5034 Benson

WELL LOG

<table>
<thead>
<tr>
<th>FORMATION</th>
<th>COLOR HARD OR SOFT</th>
<th>TOP FEET</th>
<th>BOTTOM FEET</th>
<th>REMARKS</th>
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<tbody>
<tr>
<td>Fill</td>
<td></td>
<td>0</td>
<td>15</td>
<td>1-1/2&quot; stream water @ 1600'</td>
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<tr>
<td>Sand &amp; Shale</td>
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<td>15</td>
<td>150</td>
<td>Gas check @ 2251' No show</td>
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<tr>
<td>Shale &amp; Red Rock</td>
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<td>Gas check @ 2559' No show</td>
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<tr>
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<td>325</td>
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<td>2140</td>
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<td>2140</td>
<td>2156</td>
<td>Gas check @ 4101' No show</td>
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<td>Big Lime</td>
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<td>2243</td>
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<tr>
<td>Big Injun</td>
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<td>2243</td>
<td>2296</td>
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<td></td>
<td>2296</td>
<td>5350 T.D.</td>
<td>Gas check @ 5168' No show</td>
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</table>

(Attach separate sheets as necessary)

ALAMCO, INC.

Well Operator

By: [Signature]

Date: October 3, 1984

Note: Regulation 2.02 (I) provides as follows
"The term 'log' or 'well log' shall mean a systematic detailed geological record of all formations, including coal, encountered in the drilling of a well."

10/24/2014
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: Lowell P. Bee & Sharon D. Bee
   Address: Rt. 3 Box 62
             Salem, WV 26426
   (b) Name: Glen R. Houck & Michael S. Houck
   Address: 6667 Division Highway
             Naarv, PA 17555
   (c) Name: Doug Newton
   Address: 4060 Dutchman Road
             Macfarlane, WV 26148

5) (a) Coal Operator
   Name: 
   Address: 
   (b) Coal Owner(s) with Declaration
       Name: Eastern Associated Coal Corp. 9% Patriot Coal Corp.
       Address: 500 Lee Street East, Suite 900
                 Charleston, WV 25301
   (c) Coal Lessee with Declaration
       Name: 
       Address: 

6) Inspector
   Name: Doug Newton
   Address: 4060 Dutchman Road
             Macfarlan, WV 26148
   Telephone: 304-932-8049

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 its and the plugging work order; and
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 depicted 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.

__________________________
Dee Southall
Regulatory Analyst II
P.O. Box 1300
Jane Lew, Wv 26378
304-517-1416 EXT. 85024

Chesapeake Appalachia, LLC

Subscribed and sworn before me this 1st day of August, 2014
My Commission Expires February 7, 2021
Notary Public

Oil and Gas Privacy Notice

The Office of Oil and Gas processes your personal information, such as name, address and phone number, as a 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.
Eastern Associated Coal Corp.
c/o Patriot Coal Company
500 Lee Street East, Suite 900
Charleston, WV 25301

Glen R. Houck & Michael S. Houck
6667 Division Highway
Narvon, PA 17555

Lowell P. Bee & Sharon D. Bee
Rt. 3 Box 62
Salem, WV 26426
STATE OF WEST VIRGINIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION
OFFICE OF OIL AND GAS

CONSTRUCTION AND RECLAMATION PLAN AND SITE REGISTRATION APPLICATION FORM
GENERAL PERMIT FOR OIL AND GAS PIT WASTE DISCHARGE

Operator Name: Chesapeake Appalachia, LLC
OP Code: 49447557

Watershed: Dry Fork
Quadrangle: Big Isaac

Elevation: 1328'
County: Doddridge
District: Greenbrier

Description of anticipated Pit Waste: Water from plugging process

Will a synthetic liner be used in the pit? Yes 20 mil.

Proposed Disposal Method For Treated Pit Wastes:
- Land Application
  - Underground Injection
    - UIC Permit Number 2DO072359/2D0413175/2D0613606/2D0610317
    - Reuse (at API Number at next anticipated well, API# will be included on the WR34/WR permit addendum)
  - Off Site Disposal (Supply form WW-9 for disposal location)
  - Other (Explain: flowback will be put in steel tanks and reused or taken to permitted disposal facility)

Proposed Work For Which Pit Will Be Used:
- Drilling
- Workover
- Other (Explain)
  - Swabbing
  - Plugging

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 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): Dee Southall
Company Official Title: Regulatory Analyst II

Subscribed and sworn before me this 2nd day of September, 2014

[Signature]
Notary Public
Proposed Revegetation Treatment: Acres Disturbed ___________________________ Prevegetation pH __________________

Lime as determined by pH test min. 2, Tons/acre or to correct to pH 6.5 ________________

Fertilizer (10-20-20 or equivalent) _________ lbs/acre (500 lbs minimum)

Mulch Hay/Straw Tons/acre ________________

Seed Mixtures

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<td>White Clover</td>
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<table>
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<tr>
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<td>White Clover</td>
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</tr>
</tbody>
</table>

Attach:
Drawing(s) of road, location, pit and proposed area for land application.

Photocopied section of involved 7.5' topographic sheet.

Plan Approved by: Douglas Newlon

Comments: __________________

Title: Oil and Gas Inspector

Field Reviewed? (____) Yes (____) No

WV Department of Environmental Protection

RECEIVED Office of Oil and Gas SEP 05 2014

Date: 9-3-2014
CHESAPEAKE APPALACHIA, L.L.C.
Topographical Map of Well 911428 (Nutter 2)
API = 47-17-3350
Field Office - Jane Lew
County - Harrison

Geographic NAD 83 Coordinates
Latitude 39°18'06"
Longitude -80°57'35"

UTM NAD 83 Coordinates (Meters)
Easting 536832.0
Northing 4336899.7
West Virginia Department of Environmental Protection
Office of Oil and Gas
WELL LOCATION FORM: GPS

API: 47-017-03350       WELL NO.: 911428

FARM NAME:

RESPONSIBLE PARTY NAME: Chesapeake Appalachia, LLC

COUNTY: Doddridge       DISTRICT: Greenbrier

QUADRANGLE: Big Isaac

SURFACE OWNER: Lowell & Sharon Bee


UTM GPS NORTING: 4336899.7

UTM GPS EASTING: 536832.0

GPS ELEVATION: 1328'

The Responsible Party named above has chosen to submit GPS coordinates in lieu of preparing a new well location plat for a plugging permit or assigned API number on the above well. The Office of Oil and Gas will not accept GPS coordinates that do not meet the following requirements:

2. Accuracy to Datum – 3.05 meters
3. Data Collection Method:
   Survey grade GPS ______: Post Processed Differential ______
   Real-Time Differential ______
   Mapping Grade GPS ______: Post Processed Differential ______
   Real-Time Differential ______
4. Letter size copy of the topography map showing the well location.
I, the undersigned, hereby certify this data 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 Office of Oil and Gas.

Signature
Date 8/1/14
Title

10/24/2014