December 16, 2013

WELL WORK PERMIT
Rework/Solution Mining

This permit, API Well Number: 47-5100313, issued to EAGLE NATERIAL 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: 9 BRINE WELL (PPG IND. INC.)
Farm Name: AXIALL CORPORATION
API Well Number: 47-5100313
Permit Type: Rework/Solution Mining
Date Issued: 12/12/2013

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. 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 § 22-6-20, which requires drilling to a minimum depth of thirty feet below the bottom of the void, and installing a minimum of twenty (20) feet of casing. Under no circumstance should the operator drill more than fifty (50) feet below the bottom of the void or install less than twenty (20) feet of casing below the bottom of the void.

2. Pursuant to 35 CSR § 4-19.1.a, at the request of the surface owner all water wells or springs within 1000 feet of the proposed well that are actually utilized for human consumption, domestic animals or other general use shall be sampled and analyzed.

3. Pursuant to 35 CSR § 4-19.1.c, if the operator is unable to sample and analyze any water well or spring within one thousand (1,000) feet of the permitted well location, the Office of Oil and Gas requires the operator to sample, at a minimum, one water well or spring located between one thousand (1,000) feet and two thousand (2,000) feet of the permitted well location.

4. All pits must be lined with a minimum of 20 mil thickness synthetic liner.

5. 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.

6. During the surface casing and cementing process, in the event cement does not return to the surface, or any other casing string that is permitted to circulate cement to the surface and does not return to the surface, the oil and gas inspector shall be notified within twenty-four (24) hours.

7. Well work activities shall not constitute a hazard to the safety of persons.

8. This permit is being conditioned to address the possibility of flooding in the area of this well. Any tanks stored on this location must be securely anchored in cement to prevent the loss of tanks should a flood occur. In addition, cages must be placed around the well head to prevent debris from damaging the well head.
STATE OF WEST VIRGINIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS
WELL WORK PERMIT APPLICATION

1) Well Operator: Eagle Natrium LLC

Operator ID: 39600
County: Marshall
District: Franklin
Quadrangle: New Martinsville

2) Operator's Well Number: #9 Injection Well (Fresh Water)
3) Elevation: 624.5

4) Well Type: (a) Oil or Gas Brine
   (b) If Gas: Production _____ / Underground Storage ________
       Deep _____ / Shallow _____

5) Proposed Target Formation(s): Salina
   Proposed Target Depth: 6714'

6) Proposed Total Depth: 6835.5 Feet
   Formation at Proposed Total Depth: Salina

7) Approximate fresh water strata depths: 50'

8) Approximate salt water depths: 1050' to 1750'

9) Approximate coal seam depths: 256' to 261'

10) Approximate void depths, (coal, Karst, other): N/A

11) Does land contain coal seams tributary to active mine? No

12) Describe proposed well work and fracturing methods in detail (attach additional sheets if needed)
    See attached documents

13) CASING AND TUBING PROGRAM

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Packers: Kind: Peak Technology SMP-X
Sizes: 5 1/2" in 8 5/8"
Depths Set 6350'
BRINE WELL #9

Axiall Corp.

16" - 52.36'
- CD
10 3/4" - 32.75' H-40
- 1528'

5 1/2" - 17' J-35

8 5/8" - 36' J-35

Marcellus 5720' - 5810'

5839' TOC (Birdwell Tracer Log)

5 1/2" x 8 5/8" Peak Tech. SMP-X Packer

Received
Office of West Virginia Gas
Mon, Jan 10
WV Department of Environmental Protection
6835' T.D.

12/13/2013
Procedure to Remediare #9 Injection Well

1. Set plug in 5 ½” liner at 6270’.  
2. Chemical cut the 5 ½” liner at 6260’.  
3. Remove 5 ½” liner.  
4. Pick up 8 5/8” casing scraper w/ bit and clean ID of casing to 6260’.  
5. Perform bond log to verify top of cement location.  
6. Run spinner log to locate existing hole in 8 5/8” casing.  
7. Attempt injection test down 8.625” csg. Pressure not to exceed 800 psi.  
8. Perfore High resolution Vertilog test to determine casing integrity.  
9. If necessary shoot an additional 4 squeeze holes at point determined from log. (est. 5790’)  
10. TIH with 2.875” work string and 8.625” cement retainer.  
11. Set retainer at approx. 5720’.  
12. Circulate Flourescent dye to calculate annular volume.  
13. Pump cement to fill annulus from 5790’ to approximately 1528’.  
15. Sting out of retainer and wash up.  
16. TOOH with work string.  
17. Run bond log to verify cement placement.  
18. Drill out retainer.  
19. Perform MIT test on casing.  
20. Drill out bridge plug.  
21. TOOH and secure well head.
Permit No. NARS-213

**WELL RECORD**

**Company:** Columbia-Southern Chemical Corp.

**Address:** New Martinsville, W. Va.

**Farm:** J. N. Wells

**Acres:** 86.86

**Location (waters):** East Bank Ohio River, Natrona

**Well No.:** 9

**Deep:** 632.0

**District:** Franklin

**County:** Marshall

**The surface of tract is owned in fee by Columbia-Southern Chemical Corp.**

**Address:** New Martinsville

**Mineral rights are owned by Columbia-Southern Chemical Corp.**

**Address:** New Martinsville

**Drilling commenced:** August 1, 1957

**Drilling completed:** May 7, 1959

**Date Shot From:**

**To:**

**With:**

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**Casing and Tubing**

**Used in Drilling**

**Left in Well**

**Packers**

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**Kind of Packers:**

**Size of:**

**Depth set:**

**Perf. Top:**

**Perf. Bottom:**

**Liners Used:**

**Casing Cemented:**

**SIZE:**

**No. Ft.**

**Date**

**COAL WAS ENCOUNTERED AT:**

**Ft.**

**Inches**

**Ft.**

**Inches**

**Ft.**

**Inches**

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Date: May 22, 1959

APPROVED: Columbia-Southern Chemical Corp. Owner

By: [Signature]

G. L. Cobb, Chief Engineer
Farm name: PPG Industries, Inc. Operator Well No.: #8 Brine Well

LOCATION: Elevation: 887.6 Quadrangle: New Martinsville, WV
District: Franklin County: Marshall
Latitude: 39° 45' 0" South of 100° 50' 0" West of
Longitude: 39° 45' 0" Direction:

Company: PPG Industries, Inc.

<table>
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<tr>
<th>Address</th>
<th>Casing &amp; Tubing</th>
<th>Used in drilling</th>
<th>Left in well</th>
<th>Cement fill up Cu. Ft.</th>
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<td>16&quot;</td>
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Agent: J. Thomas Horan
Inspector: Dereck M. Haught
Date Permit Issued: 6/8/2012
Date Well Work Commenced: 6/8/2012
Date Well Work Completed: 6/15/2012

Verbal Plugging: N/A
Agent's Date Permission granted on: N/A
Agent's Rotary Rig: Yes
Total Vertical Depth (ft.): 6824'
Total Measured Depth (ft.): 6824'
Fresh Water Depth (ft.):
Salt Water Depth (ft.): 6714' - 6824' (solid)
Is coal being mined in area (N/Y)? N
Coal Depths (ft.):
Void(s) encountered (N/Y) Depth(s):

OPEN FLOW DATA (If more than two producing formations please include additional data on separate sheet)

Producing formation N/A Pay zone depth (ft) N/A
Gas: Initial open flow N/A MCF/d Oil: Initial open flow N/A Bbl/d
Final open flow N/A MCF/d Final open flow N/A Bbl/d
Time of open flow between initial and final tests N/A Hours
Static rock Pressure N/A psig (surface pressure) after N/A Hours

Second producing formation N/A Pay zone depth (ft) N/A
Gas: Initial open flow N/A MCF/d Oil: Initial open flow N/A Bbl/d
Final open flow N/A MCF/d Final open flow N/A Bbl/d
Time of open flow between initial and final tests N/A Hours
Static rock Pressure N/A psig (surface pressure) after N/A Hours

I certify under penalty of law that I have personally examined and am familiar with the information submitted on this document and all the 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.

Signature

Date: 7/16/2012

Office of Oil & Gas

WV Department of Environmental Protection

12/13/2013
Were core samples taken? Yes____ No____
Were cuttings caught during drilling? Yes____

Were Electrical, Mechanical or Geophysical logs recorded on this well? If yes, please list:
A 60 arm caliper was used to locate the L.D. of the 8 5/8" casing to locate any corrosion and to locate a good area to set the packer.


Perforated Intervals, Fracturing, or Stimulating:
Perforation, Fracturing and stimulating not performed. Log for geological record not performed.

Plug Back Details Including Plug Type and Depth(s):
N/A

Formations Encountered:
Top Depth / Bottom Depth
Surface:
STATE OF WEST VIRGINIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS
NOTICE AND APPLICATION FOR A WELL WORK PERMIT

4) Surface Owner(s) to be served: 5) Coal Operator
(a) Name: Eagle Natrum LLC/Asiall Corporation  
(b) Name:
(c) Name:

(a) Coal Operator Name:
(b) Coal Owner(s) with Declaration Name:
(c) Coal Lessee with Declaration Name:

Address: P.O Box 191
New Martinsville, WV 26155
Address:
Address:

6) Inspector
Name: 
Address:

TO THE PERSONS NAMED ABOVE TAKE NOTICE THAT:

Included is the lease or leases or other continuing contract or contracts by which I hold the right to extract oil and gas

OR

Included is the information required by Chapter 22, Article 6, Section 8(d) of the Code of West Virginia (see page 2)

I certify that as required under Chapter 22-6 of the West Virginia Code I have served copies of this notice and application, a location plat, and accompanying documents pages 1 through ___ on the above named parties by:

_____ Personal Service (Affidavit attached)
_____ Certified Mail (Postmarked postal receipt attached)
_____ Publication (Notice of Publication attached)

I have read and understand Chapter 22-6 and 35 CSR 4, and I agree to the terms and conditions of any permit issued under this application.

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, 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

Subscribed and sworn before me this ___ day of ___.

My Commission Expires

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.
WW-2A Surface Waiver

SURFACE OWNER WAIVER

County     Operator
Marshall      Eagle Natrium LLC/Axiall Corporation

Operator well number
#9 Injection Well

INSTRUCTIONS TO SURFACE OWNERS NAMED ON PAGE WW2-A

The well operator named on page WW2A is applying for a permit from the State to do oil or gas well work. (Note: If the surface tract is owned by more than three persons, then these materials were served on you because your name appeared on the Sheriff's tax ticket on the land or because you actually occupy the surface tract. In either case, you may be the only owner who will actually receive these materials.) See Chapter 22 of the West Virginia Code. Well work permits are valid for 24 months. If you do not own any interest in the surface tract, please forward these materials to the true owner immediately if you know who it is. Also, please notify the well operator and the Office of Oil and Gas.

NOTE: YOU ARE NOT REQUIRED TO FILE ANY COMMENT.

WHERE TO FILE COMMENTS AND OBTAIN ADDITIONAL INFORMATION:

Chief, Office of Oil and Gas
Department of Environmental Protection
601 57th St. SE
Charleston, WV 25304
(304) 926-0450

Time Limits and methods for filing comments. The law requires these materials to be served on or before the date the operator files his Application. You have FIFTEEN (15) 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 a dequate 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.

Comments must be in writing. Your comments must 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.

The Chief has the power to deny or condition a well work permit based on comments on the following grounds:
1) The proposed well work will constitute a hazard to the safety of persons.
2) The soil erosion and sediment control plan is not adequate or effective;
3) Damage would occur to publicly owned lands or resources;
4) The proposed well work fails to protect fresh water sources or supplies;
5) The applicant has committed a substantial violation of a previous permit or a substantial violation of one or more of the rules promulgated under Chapter 22, and has failed to abate or seek review of the violation..."

If you want a copy of the permit as it is issued or a copy of the order denying the permit, you should request a copy from the Chief.

List of Water Testing Laboratories. The Office maintains a list of water testing laboratories which you can hire to test your water to establish water quality prior to and after drilling. Contact the Chief to obtain a copy.

VOLUNTARY STATEMENT OF NO OBJECTION

I hereby state that I have read the instructions to surface owners and that I have received copies of a Notice and Application for a Well Work Permit on Form WW2-A, and attachments consisting of pages 1 through ___ including a work order on Form WW2-B, a survey plat, and a soil and erosion plan, all for proposed well work on my surface land as described therein.

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.

FOR EXECUTION BY A NATURAL PERSON

__________________________________________ Date ________________
Signature

__________________________________________
Print Name

FOR EXECUTION BY A CORPORATION, ETC.

Company Name: Eagle Natrium LLC/Axiall Corporation
By Ed McLaughlin
Its __________________________

Brine Field Engineer
Signature __________________________ Date 11/14/13

12/13/2013
WW-2A Coal Waiver

COAL OPERATOR, OWNER, OR LESSEE WAIVER

County __________________________ Operator's Well Number #9 injection well
Operator _______________________

INSTRUCTIONS TO COAL OPERATOR, OWNER, OR LESSEE

To the coal operator, owner, or lessee named on page WW2-A. You are hereby notified that any objection you wish to make or are required to make by WV Code 22-6-15, 16 or 17, must be filed with the Chief of the Office of Oil and Gas within fifteen (15) days after the receipt of this application by the Office. Mail objections to:

Chief, Office of Oil and Gas
Department of Environmental Protection
601 57th St. SE
Charleston, WV 25304
(304) 926-0499 extension 1654

WAIVER

The undersigned coal operator _____/ owner _____/ lessee _____/ of the coal under this well location has examined this proposed well location. If a mine map exists which covers the area of well location, the well location has been added to the mine map. The undersigned has no objection to the work proposed to be done at this location, provided, the well operator has complied with all applicable requirements of the West Virginia Code and the governing regulations.

FOR EXECUTION BY A NATURAL PERSON

________________________________________ Date

Signature

FOR EXECUTION BY A CORPORATION, ETC.

________________________________________

Company Name

By

Its

________________________________________ Date

Signature

________________________________________ Date

Signature

Office of Oil and Gas
NOV 15 2013
WV Department of Environmental Protection

12/13/2013
INFORMATION SUPPLIED UNDER WEST VIRGINIA CODE  
Chapter 22, Article 6, Section 8(d)  
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:

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<th>Grantor, Lessor, etc.</th>
<th>Grantee, Lessee, etc.</th>
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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: Eagle Natrium LLC/Axiall Corporation  
By: Its: Manager, Environmental Control

12/13/2013
WW-2B1
(5-12)

West Virginia Department of Environmental Protection
Office of Oil and Gas

NOTICE TO SURFACE OWNERS

The well operator named below is preparing to file for a permit from the state to drill a new well. Before a well work permit can be filed with the Chief of the Office of Oil and Gas, the well operator is required to have given notice of the right to request water well or spring analytical testing. This notice shall be given to the owners or occupants of land which have a water well or spring being utilized for human consumption, domestic animals, or other general use and which is located within 1000 feet of the proposed well site.

With this form, the operator is giving you notice of your right to request analytical testing. The operator is required to sample and analyze the water wells or springs of all owners or occupants who request it. Therefore, if you wish to have your water well or spring tested, contact the operator named below.

All sampling shall be completed prior to drilling. Within thirty (30) days of the receipt of such sample analyses the operator shall submit the results to the Chief of the Office of Oil and Gas and to the owners or occupants who may have requested them.

Be advised, you have the right to sample and analyze any water supply at your own expense.

Listed below is the laboratory chosen by operator to perform analysis, and contactor chosen to collect sample.

Certified Laboratory Name

Sampling Contractor

Well Operator: Eagle Natrium LLC/Axiall Corporation
Address: P.O. Box 191
New Martinsville, WV 26155
Telephone: (304)455-2200

FOR OPERATOR’S USE ONLY: Below, or on an attached page, list those persons which were given this notice. Place an asterisk beside the one(s) that contacted you and requested sampling and analyses. If there were no requests made, indicate by underling which one you have selected to sample and analyze. If there are no water wells or springs within 1000 feet of the proposed site, the Chief may require the operator to test wells up to 2000 feet from the proposed site.

RECEIVED
Office of Oil and Gas

NOV 15 2013

WV Department of
Environmental Protection

12/13/2013
STATE OF WEST VIRGINIA  
DEPARTMENT OF ENVIRONMENTAL PROTECTION  
OFFICE OF OIL AND GAS

FLUIDS/ CUTTINGS DISPOSAL & RECLAMATION PLAN

Operator Name  Eagle Natrium LLC/Axiall Corporation  
OP Code  39600

Watershed (HUC 10)  Ohio River  
Quadrangle  New Martinsville

Elevation  624.5  
County  Marshall  
District  Franklin

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 for drill cuttings?  Yes _____  No  x  

If so, please describe anticipated pit waste:  

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

If so, what ml.?  

Proposed Disposal Method For Treated Pit Wastes:  

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

Will closed loop system be used?  No

Drilling medium anticipated for this well?  Air, freshwater, oil based, etc.  Brine  

-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.  Removed Offsite  

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

-Landfill or offsite name/permit number?  SWF-1034

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 laws or regulations 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  
J. Thomas Horan

Company Official (Typed Name)  J. Thomas Horan

Company Official Title  Manager, Environmental Control

Subscribed and sworn before me this  14th  day of October

Erin C. Boggs

My commission expires  Oct. 25, 2013
Form WW-9

Operator's Well No. #9 Injection Well

Proposed Revegetation Treatment: Acres Disturbed ____________ Prevegetation pH ____________

Lime ____________ Tons/acre or to correct to pH ____________

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

Mulch ____________ Tons/acre

Seed Mixtures

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<table>
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Attach:

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

Photocopied section of involved 7.5' topographic sheet.

Plan Approved by: ____________________________

Comments: __________________________________

__________________________________________

Title: ____________________________ Date: __________

Field Reviewed? (______) Yes (______) No

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Office of Oil and Gas
NOV 15 2013

WV Department of Environmental Protection

12/13/2013