December 12, 2014

WELL WORK PLUGGING PERMIT

Plugging

This permit, API Well Number: 47-5100739, issued to EAGLE NATRIUM 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: 19
Farm Name: PPG INDUSTRIES, INC.
API Well Number: 47-5100739
Permit Type: Plugging
Date Issued: 12/12/2014

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 ____/ Liquid injection Brine / Waste disposal ____/
   (If "Gas, Production ___ or Underground storage ___) Deep ____/ Shallow____

5) Location: Elevation 642 ft. - 8 in.
   District Franklin
   Watershed Ohio River
   County Marshall
   Quadrangle New Martinsville, WV

6) Well Operator Eagle Natrium, LLC
   Address P.O. Box 191
   New Martinsville, WV 26155

7) Designated Agent J. Thomas Horan
   Address P.O. Box 191
   New Martinsville, WV 26155(S)

8) Oil and Gas Inspector to be notified
   Name __________________________
   Address _______________________

9) Plugging Contractor
   Name __________________________
   Address _______________________

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

MUST USE LATEX CEMENT
WHERE THE POSSIBILITY OF
HYDROGEN SULFIDE EXISTS.

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

Work order approved by inspector __________________________
Received __________________________ Date __________________________

Office of Oil & Gas
OCT 29 2014

12/12/14
Proposed Plugging Procedure

API

Well #47-051-0739

Axiall No. 19 Brine Well

October 28, 2014

1) Release packer and pull the 7 in. liner @ the bottom of the well. Cut packer if required to release.

2) Set a bridge plug in the 9-5/8 in. casing @ approx. 6200 ft. (perform a scraper run prior).

3) **Set a Class A Cement Plug from approx. 6200 - 5000 ft. (across the Marcellus Shale).** Wait an hour and tag the top of cement (TOC) to verify top of cement. Add cement to attain an approx. 5000 ft. depth, if necessary.

4) Gel hole from the TOC to approx. 2000 ft.

5) Freepoint the 9-5/8 in. casing. The casing should be loose between 1000 – 1950 ft. Cut the casing at the freepoint and remove the loose casing. In the event the 9-5/8 in. casing cannot be removed an alternate procedure will be utilized. The 9-5/8 in. casing will be perforated starting at 1950 ft. and at 250 ft. increments above this location. Class A Cement will be spotted (balanced) both inside and outside of the 9-5/8 in. casing to surface.

**Assuming the 9-5/8 in. casing is removed:**

6) Gel hole from approx. 2000 ft. to 1550 ft.

7) Set a Class A Cement Plug from approx. 1550 ft. to 1350 ft.

8) Gel hole from approx. 1350 ft. to 300 ft. 1150′.

9) Set a Class A Cement Plug from approx. 300 ft. to surface.

10) Set a monument at the surface of well as per WV DEP standards.

9 a) Gel hole from 325′ to 325′.

9 b) Set a Class A Cement Plug from 325′ to surface.

**All plugs must be Class A cement with no more than 3% CaCl₂ and no other additives.**

**Gel spacers between all cement plugs, so entire wellbore is filled.**

**A gel is defined as fresh water with a minimum of 6% bentonite, by weight, and no other additives.**

Received
Office of Oil & Gas
OCT 29 2014
12/12/14

CONDUCTOR PIPE - 30' ASL, 118.7 L/W, 66' SET, NOT CEMENTED, MELTED.

FRESH WATER PIPE - 20' HG, 94 L/W, 121' SET, CEMENTED TO SURFACE, 16' NW 2" & MELTED, MELTED.

INTERMEDIATE - 13 3/4" K-55, 54.5 L/W, 200' SET, CEMENTED TO 1000', 8" AND 5/8" LONG COUPLED, RANGE 3, SEAMLESS.

PULPERION - 9 5/8" L-40, 32.5 L/W, 600' SET, CEMENTED TO 1000', 8" AND 5/8" LONG COUPLED, RANGE 3, SEAMLESS.

NATURAL LINER - 7" L-40, 32 L/W, LID SET, NOT CEMENTED, HYDREL SEI THIRD, RANGE 3, SEAMLESS.

VALVE - 10" DIAM CLASS OR, FLANGED GATE VALVE, SOLID BRASS, 132" CHROME TRIM, HARD FACED SEATS.

WELLHEAD - 13 5/8" X 9 5/8", HANGER SLIPS, 2000 LBS FINGERING, TOP PACKING, TOP PROTECTION FIG. ERC INDUSTRIES C16, AN.

PACKER - WELDING MODEL C3P LIGNER Packer, 7" 32 L/W X 9 5/8" 53.5 LB, HYDREL SET 5PM DOWN, 8 29" TIDAL D.O.

ORIGINAL OPEN HOLE (1995)
19" OPEN 11.3' # OF SURFACE
DISTANCE = 1702' (HORIZONTAL)
BEARING = 12° 60' W.

DATE: TO: MSE
DESCRIPTION

[Diagram details and measurements]
WEST VIRGINIA DIVISION OF ENVIRONMENTAL PROTECTION
SECTION OF OIL AND GAS
UNDERGROUND INJECTION CONTROL PROGRAM

UIC ROUTINE INSPECTION FORM

Operator: PPG INDUSTRIES INC
Farm Name: PPG INDUSTRIES, INC.
Well Number: 19

WELL DATA
County: Marshall
District: Franklin
Quad Number: 509
Well Status: Active Well
Well Use Type: Class III Injection
Fluid Type: Fresh Water
Latitude: 39° 45 min 0 sec 3850 feet
Longitude: -80° 50 min 0 sec 3000 feet
Quad Name: NEW MARTINSVILLE
Well Status: Active
Date of Last Inspection: Apr 14, 1999
Comments: RIG REMOVING CORRODED 7" LINER; WELL IS HORIZONTAL; WILL DRILL NEW SECTION

Elevation: 642 feet
Fresh water Casing: 20 in. @ 131 ft / 234 (sks)
Injection Casing: 9 5/8 in. @ 6204 ft / 2029 (sks)
Injection Formations:
#1 - Salina - Top @ 6662 ft / Bottom @ 6796 ft.
MIT Test Type: Annulus pressure passed
MIT Test Date: Aug 07, 2009

WELL OPERATION
Surface Injection Pressure: 1000 Psi
Injection Rate: Barrels/Hr.
Annulus Monitoring: Size: 7"
Flow or Pressure: 

COMMENTS:

\[\text{[Signature]}\]
District Oil and Gas Inspector
Date: 8/31/09

12/12/14
STATE OF WEST VIRGINIA  
DEPARTMENT OF ENVIRONMENT-OFFICE OF OIL AND GAS  
PRE-OPERATION CERTIFICATE  
FOR LIQUID INJECTION OR WASTE DISPOSAL WELL

WELL OPERATOR  
PPG INDUSTRIES, INC.  
Address  PO Box 191  
NEW MARTINSVILLE, WV 26155

DESIGNATED AGENT  
T. THOMAS HORAN  
Address  PO Box 191  
NEW MARTINSVILLE, WV 26155

GEOLOGICAL TARGET FORMATION  
Salina Salt

Depth 6692 feet(top) to 6796 feet(bottom)

Virgin reservoir pressure in target formation N/A psig

Source of information on virgin reservoir pressure: N/A

Perforation intervals N/A

Open-hole intervals N/A

MAXIMUM PERMITTED INJECTION OPERATIONS

Well head injection pressure: 1000 psig

Bottom hole pressure: 4530 psig

Volume per hour: N/A

DETAILED IDENTIFICATION OF MATERIALS TO BE INJECTED

Liquids to be injected for oil recovery: N/A

Wastes to be disposed of: N/A

Additives (Slurry mediums, inhibitors, solvents, oxidizers, deoxidizers, etc.): N/A

SPECIFICATIONS FOR CATHODIC PROTECTION AND OTHER CORROSION CONTROL: N/A

ADDITIONAL DRILLING AS PART OF THE CONVERSION  
(Complete form WR-35)

DETAILS ON NEW CASING AND TUBING PROGRAM AS PART OF THE CONVERSION  
(To be completed below unless the new casing and tubing program is described on a form WR-35, submitted in connection with the permit to which this form WR-37 relates.)

<table>
<thead>
<tr>
<th>CASING OR TUBING TYPE</th>
<th>SIZE</th>
<th>GRADE</th>
<th>WEIGHT PER FT.</th>
<th>NEW USED</th>
<th>FOOTAGE USED IN DRILLING</th>
<th>FOOTAGE LEFT IN WELL</th>
<th>CEMENT USED</th>
<th>PACKERS (KIND, SIZE, DEPTH SET)</th>
</tr>
</thead>
<tbody>
<tr>
<td>CONDUCTOR</td>
<td>3/4&quot;</td>
<td>A-53</td>
<td>116#</td>
<td>x</td>
<td>71.60'</td>
<td>66.10'</td>
<td>234 585</td>
<td>Arrow Liner Kohler Setstat</td>
</tr>
<tr>
<td>FRESH WATER</td>
<td>2&quot;</td>
<td>N-40</td>
<td>94#</td>
<td>x</td>
<td>131.05'</td>
<td>131.05'</td>
<td>234 585</td>
<td></td>
</tr>
<tr>
<td>COAL</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>INTERMEDIATE</td>
<td>13/4&quot;</td>
<td>K-55</td>
<td>54.5#</td>
<td>x</td>
<td>2000.25'</td>
<td>1552 585</td>
<td>5657.5</td>
<td></td>
</tr>
<tr>
<td>PRODUCTION</td>
<td>9 7/8&quot;</td>
<td>2-50</td>
<td>52.5#</td>
<td>x</td>
<td>6202'</td>
<td>4023'</td>
<td>326 826.5</td>
<td></td>
</tr>
<tr>
<td>TUBING</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>LINERS</td>
<td>7&quot;</td>
<td>150</td>
<td>32#</td>
<td>x</td>
<td>1807'</td>
<td>1307'</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

TOC 9 7/8" ≈ 1400'
MECHANICAL INTEGRITY TEST

Test Method: A test plug was set at 2010. The 9 ½" casing was then pressurized to 1600 lbs. After 30 minutes the pressure was 1595 lbs for a loss of 5 lbs. The chart recorder failed to operate during the test so there is no chart attached.

The undersigned certifies that the test was performed on July 29, 2009 and demonstrated mechanical integrity of the well. The test was witnessed by in the Office of Oil and Gas.

PPG INDUSTRIES, INC.
Well Operator
Date 8/1/09

THIS WELL IS AUTHORIZED FOR INJECTION.

Signed James Patterson UIC PROGRAM DIRECTOR
Date 8/21/09

[NOTE: That the mechanical integrity of this well must be demonstrated again within ninety (90) days of five years from this date in order for injection to continue. Please notify the state inspector 24 hours in advance of the test].

A Tristan Jenkins was notified of the test but did not attend.

PPG INDUSTRIES, INC.
By: Its

12/12/14
State of West Virginia  
Division of Environmental Protection  
Section of Oil and Gas  
Well Operator's Report of Well Work

**Farm Name:** PPG INDUSTRIES, INC.  
**Operator Well No.:** BRINE WELL #1

**LOCATION:**  
- Elevation: 642.00  
- Quadrangle: NEW MARTINSVILLE  
- District: FRANKLIN  
- County: MARSHALL  
- Latitude: 38°50' Feet South of 39 Deg. 45 Min. 0 Sec.  
- Longitude: 80°00' Feet West of 80 Deg. 50 Min. 0 Sec.

**Company:** PPG INDUSTRIES, INC.  
- P. O. BOX 191  
- NEW MARTINSVILLE, WV 26155-0191

**Agent:** KEN S. WALBORN

**Inspector:** RANDAL MICK  
**Permit Issued:** 09/22/99  
**Well work commenced:** 12/1/99  
**Well work completed:** 12/12/99

**Verbal Plugging**
- Permission granted on: INQUIRIES
- Rotary X Cable Rig
- Total Depth (feet) 23,107'
- Fresh water depths (ft):
- Salt water depths (ft): 1,483'
- Is coal being mined in area (Y/N)?: N
- Coal Depths (ft):

### OPEN FLOW DATA

- **Producing formation**
  - Pay zone depth (ft):
  - 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 pressure) after Hours

- **Second producing formation**
  - Pay zone depth (ft):
  - 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 pressure) after Hours

**NOTE:** ON BACK OF THIS FORM PUT THE FOLLOWING: 1). DETAILS OF PERFORATED INTERVALS, FRACTURING OR STIMULATING, PHYSICAL CHANGE, ETC. 2). THE WELL LOG WHICH IS A SYSTEMATIC DETAILED GEOLOGICAL RECORD OF ALL FORMATIONS, INCLUDING COAL ENCOUNTERED BY THE WELLOBRE.

**For:** PPG INDUSTRIES, INC.  
**By:**

**Date:**

---

**Can new:** 9.5/8" 7"  
**GCS:**

**12/12/14**
INSPECTORS PERMIT SUMMARY FORM

DATE STARTED/LOCATION:
DRILLING COMMENCED:
TD DATE:
WATER DEPTHS:
WATER (DEPT: 6776)

API# 47-051-00739-0 WELL NO. 19
OPERATOR: PPG Industries, Inc.
FARM: PPG Industries, Inc.

1. IS THE OPERATOR KEEPING DETAILED DRILLING AND CEMENT RECORDS: YES [X] NO [ ] (6 PTS)
   RAN 72.6 FEET OF 30" PIPE ON CEMENT WITH 6 SKS (CIR) YES [X] NO [ ]
   RAN 131 FEET OF 20" PIPE ON CEMENT WITH 234 SKS (CIR) YES [X] NO [ ]
   RAN 2000.35 FEET OF 13 3/8" PIPE ON CEMENT WITH 1852 SKS (CIR) YES [X] NO [ ]
   RAN 6204.58 FEET OF 7" PIPE ON CEMENT WITH 2029 SKS (CIR) YES [X] NO [ ]
   RAN 1300.45 FEET OF 7" PIPE ON CEMENT WITH 0 SKS (CIR) YES [X] NO [ ]

   YES [X] NO [ ] See WR-34

   PIT DISCHARGE DATE: TYPE: (LAND, DISPOSAL WELL, RE-USE, ETC.)
   ACRES DISCHARGED: PIT VOLUME: PIT ADDITIVES

   FIELD ANALYSIS: pH: Fe: mg/l Cl: mg/l D.O. mg/l TOC: mg/l
   QUESTIONS FOR THIS REPORT ARE IN ACCORDANCE OF WV CODE 22-5-30 AND REGULATION 35CSR 4-12.1 AND 35CSR 4-16 AND THE GENERAL WATER POLLUTION CODE.

   2. DID OPERATOR GIVE PROPER NOTICE TO INSPECTOR BEFORE THE FOLLOWING:
      A. CONSTRUCTION YES [X] NO [ ] (2 PTS)
      B. DRILLING YES [X] NO [ ] (2 PTS)
      C. PIT TREATMENTS YES [X] NO [ ] (2 PTS)
      D. PIT DISCHARGE YES [X] NO [ ] (2 PTS)

      POINTS AVAILABLE FOR QUESTION 2: (10 PTS)

   3. DID THE OPERATOR HAVE PERMIT ON SITE? YES [X] NO [ ] (4 PTS)

   4. WAS THE TIMBER CUT, STACKED, AND BRUSH USED FOR SEDIMENT BARRIERS BEFORE DIRT WORK STARTED? YES [X] NO [ ] (4 PTS)

   5. ARE ALL LOCATION AND/OR ROAD BANKS BEING SLOPED? YES [X] NO [ ] (4 PTS)

   6. WERE THE FOLLOWING SEDIMENT CONTROL STRUCTURES PROPERLY INSTALLED/MAINTAINED?
      A. ROAD DITCHES YES [X] NO [ ] (3PTS)
      B. CROSS DRAINS YES [X] NO [ ] (3PTS)
      C. CULVERTS YES [X] NO [ ] (3PTS)
      D. CREEK CROSSINGS YES [X] NO [ ] (3PTS)
      E. DIVERSION DITCHES YES [X] NO [ ] (3PTS)
      F. BARRIERS YES [X] NO [ ] (3PTS)
      G. TEMPORARY SEEDING YES [X] NO [ ] (3PTS)

      POINTS AVAILABLE FOR QUESTION 6: (21 PTS)

   7. HAS TOP SOIL (IF ANY) BEEN STOCKED FILED? YES [X] NO [ ] (2 PTS)

   8. IS THE WELL STAKE IN THE PROPER SPOT IN ACCORDANCE WITH 35CSR4-9.2.c AFTER CONSTRUCTION? YES [X] NO [ ] (3 PTS)

   9. IS THE PIT PROPERLY INSTALLED AND MAINTAINED? YES [X] NO [ ] (6 PTS)

   10. IS EQUIPMENT AND SITE BEING PROPERLY MAINTAINED TO PREVENT SPILLS? YES [X] NO [ ] (3PTS)

   11. IS EQUIPMENT BEING PROPERLY OPERATED TO MAINTAIN SAFE CONDITIONS? YES [X] NO [ ] (3PTS)

   12. WAS ROAD AND LOCATION PROPERLY RECLAIMED? YES [X] NO [ ] (2PTS)

   13. WAS ADEQUATE SEEDING MATERIALS AVAILABLE? YES [X] NO [ ] (2PTS)

   14. WAS RECLAMATION COMPLETED WITHIN:
       6 MTHS OF TD YES [X] NO [ ] 8 MTHS OF TD YES [X] NO [ ] 13 MTHS OF TD YES [X] NO [ ] 4 MTHS

   POINTS AVAILABLE FOR QUESTION 15: (15 PTS)

   10-29-02

   DATE RELEASED

   Steven A. Monov
   INSPECTOR

   TOTAL RECLAMATION SCORE:

   re-work = 16 score
1) Well Operator: PPG Industries, Inc. 29600 3 509
2) Operator's Well Number: No. 19 Brine Well (Production) 3) Elevation: 642.5
4) Well type: (a) Oil / or Gas / or Brine Production / x /
   (b) If Gas: Production / or Underground Storage / or Shallow Oil/Gas Permitting
5) Proposed Target Formation(s): Salina
6) Proposed Total Depth: 6870 feet
7) Approximate fresh water strata depths: 70 ft.
8) Approximate salt water depths: 1050 to 1600 ft.
10) Does land contain coal seams tributary to active mine? Yes / No /
11) Proposed Well Work: Rework exist well - new casing & horizontal leg.
12) CASING AND TUBING PROGRAM

<table>
<thead>
<tr>
<th>TYPE</th>
<th>SPECIFICATIONS</th>
<th>FOOTAGE INTERVALS</th>
<th>CEMENT</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>SIZE</td>
<td>GRADE</td>
<td>WEIGHT PER FT.</td>
</tr>
<tr>
<td>Conductor</td>
<td>20&quot;</td>
<td>H-40</td>
<td>94</td>
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<tr>
<td>Fresh Water</td>
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<tr>
<td>Coal</td>
<td></td>
<td></td>
<td></td>
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<tr>
<td>Intermediate</td>
<td>13 3/8&quot;</td>
<td>K-55</td>
<td>54.5</td>
</tr>
<tr>
<td>Production</td>
<td>9 5/8&quot;</td>
<td>L-80</td>
<td>53.5</td>
</tr>
<tr>
<td>Tubing</td>
<td>7&quot;</td>
<td>L-80</td>
<td>32</td>
</tr>
<tr>
<td>Liners</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

PACKERS: Kind Weatherford Model CSP
Sizes 7" Depths set 5690'

For Office of Oil and Gas Use Only

[ ] Fee(s) paid: [ ] Well Work Permit [ ] Reclamation Fund [ ] WPCP
[ ] Plat [ ] WW-9 [ ] WW-2B [ ] Bond _____ (Type) [ ] Agent

12/12/14
STATE OF WEST VIRGINIA
DEPARTMENT OF ENERGY, OIL AND GAS DIVISION
PRE-OPERATION CERTIFICATE
FOR LIQUID INJECTION OR WASTE DISPOSAL WELL

WELL OPERATOR: FPG Industries
Address: P.O. Box 191, New Martinsville, WV 26155

DESIGNATED AGENT: Ken Walborn
Address: P.O. Box 191, New Martinsville, WV 26155

GEOLOGICAL TARGET FORMATION: Salina
Depth: 6682 feet (top) to 6796 feet (bottom)

Virgin reservoir pressure in target formation: N/A psig
Source of information on virgin reservoir pressure: N/A
Perforation intervals: N/A
Open-hole intervals: 18' vert. & 1259' horiz.

MAXIMUM PERMITTED INJECTION OPERATIONS
Volume per hour: N/A
Wellhead injection pressure: 1000 psig
Bottom hole pressure: 4530 psig

DETAILED IDENTIFICATION OF MATERIALS TO BE INJECTED
Liquids to be injected for oil recovery under Code § 22-4-10a:
Wastes to be disposed of: N/A
Additives (Slurry mediums, inhibitors, solvents, oxidizers, deoxidizers, etc.):
N/A
Specific Gravity: 1.2 Brine Water/1.0 Water for solution mining salt

SPECIFICATIONS FOR CATHODIC PROTECTION AND OTHER CORROSION CONTROL: N/A

ADDITIONAL DRILLING AS PART OF THE CONVERSION
Complete and submit Form WR-35, "Well Operator's Report of Drilling, Fracturing and/or Stimulating or Physical Change".

DETAILS ON NEW CASING AND TUBING PROGRAM AS PART OF THE CONVERSION:
(To be completed below unless the new casing and tubing program is described on a Form WR-35, "Well Operator's Report of Drilling, Fracturing and/or Stimulating or Physical Change", submitted in connection with the permit to which this Form WR-37 preoperation certificate relates.)

<table>
<thead>
<tr>
<th>Casing or Tubing Type</th>
<th>Specifications</th>
<th>Footage Intervals</th>
<th>Cement Fill-Up (Cubic Feet)</th>
<th>Packers</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Kinds</td>
</tr>
<tr>
<td>Conductor</td>
<td>20&quot; A-53</td>
<td>118 lb. x</td>
<td>72.60 ft.</td>
<td>-0-</td>
</tr>
<tr>
<td>Fresh water</td>
<td>20&quot; H-40</td>
<td>94 lb. x</td>
<td>131.05 ft.</td>
<td>234</td>
</tr>
<tr>
<td>Intermediate</td>
<td>133/8 K-55</td>
<td>54.5 lb. x</td>
<td>2000.25 ft.</td>
<td>1852</td>
</tr>
<tr>
<td>tubing</td>
<td>9 5/8 K-55</td>
<td>40 lb. x</td>
<td>6204.28 ft.</td>
<td>2029</td>
</tr>
<tr>
<td>Ners</td>
<td>7&quot; K-55</td>
<td>26 lb. x</td>
<td>1300.45 ft.</td>
<td>5697 ft.</td>
</tr>
</tbody>
</table>
* Hung from Baker Packer @ 5697 ft.
MECHANICAL INTEGRITY TEST

Test method: The 9 5/8" casing was pressured up to 1585 psi against a cement plug located at 5571'. In 20 minutes the pressure dropped to 1561 psi for a drop in pressure of 24 psi. Please see chart attached.

The undersigned certifies that the test was performed on November 21, 1992 and demonstrated the mechanical integrity of the well. The test was witnessed by representing the Division of Oil and Gas.

K. S. Walborn
Well Operator

January 25, 1993
Date

THIS WELL IS AUTHORIZED FOR INJECTION.

Signed Director, Division of

Date

[NOTE: That the mechanical integrity of this well must be demonstrated again within ninety (90) days of five years from this date in order for injection to continue. Please notify the state inspector 24 hours in advance of the test].

FACILITIES OR SYSTEMS TO PROTECT THE INTEGRITY OF THE GEOLOGICAL TARGET FORMATION FRACTURING THE CONFINING STRATA

APPLICATION FOR VARIANCE (IF ANY) FROM REGULATION 9.01 (a)
[Specify purpose, necessity, and justification]

* Mr. Steve Casey was informed of the test but was unable to attend.

PPG Industries, Inc.
Well Operator

By: K. S. Walborn
Its Mgr. Environmental Control
All depths measured from a K.B. elevation of 662.5'

<table>
<thead>
<tr>
<th>FORMATION</th>
<th>TOP</th>
<th>BOTTOM</th>
<th>REMARKS</th>
</tr>
</thead>
<tbody>
<tr>
<td>Substructure</td>
<td>0</td>
<td>20</td>
<td></td>
</tr>
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<td>Gravel &amp; Fill</td>
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<td>Mauch Chunk</td>
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<td>Big Injun</td>
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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: Eagle Natrum, LLC/ Axell Corporation
   Address: P.O. Box 191
             New Martinsville, WV 26155
   (b) Name: ____________________________
   Address: ____________________________
   (c) Name: ____________________________
   Address: ____________________________

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

6) Inspector
   Address: ____________________________
   Telephone: ____________________________

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 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.

Received
Office of Oil & Gas
OCT 29 2014

Well Operator: Eagle Natrum, LLC/ Axell Corporation
By: ____________________________
   Agent: ____________________________
   Address: P.O. Box 191
             New Martinsville, WV 26155
   Telephone: 304-455-2200, ext. 3310

Subscribed and sworn before me this 28 day of October 2014
My Commission Expires ____________________________

Notary Public
 STATE OF WEST VIRGINIA
P.O. Box 191
Princeton, West Virginia 26550

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.
SURFACE OWNER WAIVER

Operator's Well Number

No. 19 Brine Well

INSTRUCTIONS TO SURFACE OWNERS NAMED ON PAGE WW4-A

The well operator named on page WW-4A is applying for a permit from the State to plug and abandon a well. (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 FIVE (5) 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.

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.

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 Permit To Plug And Abandon on Forms WW-4A and WW-4B, and a survey plat.

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, ETC.

Date 10/29/14

Name

Eagle Natrium, LLC/ Natrium Corp.

FOR EXECUTION BY A CORPORATION,

Agent

J. Thomas Horan

Signature

Date

12/12/14
INSTRUCTIONS TO COAL OPERATORS
OWNERS AND LESSEE

The well operator named on the obverse side of WW-4 (B) is about to abandon the well described in the enclosed materials and will commence the work of plugging and abandoning said well on the date the inspector is notified. Which date shall not be less then five days after the day on which this notice and application so mailed is received, or in due course should be received by the Department of Environmental Protection Office of Oil & Gas.

This notice and application is given to you in order that your respective representatives may be present at the plugging and filling of said well. You are further notified that whether you are represented or not the operator will proceed to plug and fill said well in the manner required by Section 24, Article 6, Chapter 22 of the Code and given in detail on obverse side of this application.

NOTE: If you wish this well to be plugged according to 22-6-24(d) then as per Regulation 35CSR4-13.9 you must complete and return to this office on form OB-16 “Request by Coal Operator, Owner, or Lessee for plugging” prior to the issuance of this plugging permit.

WAIVER

The undersigned coal operator / owner / lessee / of the coal under this well location has examined this proposed plugging work order. 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.

Date: 10/28/14

Eagle Natrium, LLC/ Axiall Corporation

By: [Signature]

Its Agent

Received
Office of Oil & Gas
OCT 29 2014
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: Eagle Natrium, LLC

OP Code: 

Watershed: Ohio River

Quadrangle: New Martinsville, WV

Elevation: 642 ft. - 6 in.

County: Marshall

District: Franklin

Description of anticipated Pit Waste: N/A

Will a synthetic liner be used in the pit? N/A

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)
- X Other (Explain) All liquid waste will be solidified and disposed in a landfill

Proposed Work For Which Pit Will Be Used:

- Drilling
- Workover
- Other (Explain) N/A

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 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): Manager, Environmental Control

Subscribed and sworn before me this 28 day of October, 2014

Erin C. Boggs

Notary Public

My commission expires October 25, 2020
Proposed Revegetation Treatment: Acres Disturbed <1 acre  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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<th>Seed Type</th>
<th>Area I</th>
<th>lbs/acre</th>
<th>Area II</th>
<th>Seed Type</th>
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</table>

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

Photocopied section of involved 7.5' topographic sheet.  
(Attached) 

Plan Approved by: 

Comments: 

Title: ___________________________________________________________________________  Date: __________________________  

Field Reviewed? (_____) Yes  (_____) No
West Virginia Department of Environmental Protection
Office of Oil and Gas
WELL LOCATION FORM: GPS

API: __47-051-0739_____________________________ WELL NO.: No. 19 Brine Well
FARM NAME: __Eagle Natrium, LLC/ Axiall Corporation ______
RESPONSIBLE PARTY NAME: __Eagle Natrium, LLC/ Axiall Corporation____
COUNTY: __Marshall________________________ DISTRICT: __Franklin__ 3
QUADRANGLE: __New Martinsville ________________________________
SURFACE OWNER: __Eagle Natrium, LLC/ Axiall Corporation________________
ROYALTY OWNER: __Eagle Natrium, LLC/ Axiall Corporation__
UTM GPS NORTHING: __4,398,854.47________________________
UTM GPS EASTING: ___513,395.78_____ GPS ELEVATION: __642 ft. – 6 in.

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 ___X___: 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 ___________________________  Manager, Environmental Control
_____________ Date

12/12/14
October 28, 2014

Via Overnight Mail

James Martin, Chief
WV Department of Environmental Protection
Office of Oil & Gas
601 57th Street
Charleston, WV 25304

Dear Mr. Martin:

Subject: Plug and Abandon Permit Application for Brine Well No. 19,
API Well Number 47-051-0739

Please find attached, the required completed forms and associated map to plug and abandon
Brine Well No. 19, API Well Number 47-051-0739 located at the Eagle Natrium LLC, Natrium
Plant.

If you have any questions, please call Mr. Ed McLaughlin at (304) 455-2200 extension 3476.

Sincerely,

J. Thomas Horan
Manager Environmental

Attachments: