November 13, 2013

WELL WORK PERMIT
Horizontal 6A Well

This permit, API Well Number: 47-5101669, issued to NOBLE ENERGY, INC., 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: MND3FHS
Farm Name: CONSOLIDATION COAL COMPA
API Well Number: 47-5101669
Permit Type: Horizontal 6A Well
Date Issued: 11/13/2013

Promoting a healthy environment.
PERMIT CONDITIONS

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

CONDITIONS

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

2. If the operator encounters an unanticipated void, or an anticipated void at an unanticipated depth, the operator shall notify the inspector within 24 hours. Modifications to the casing program may be necessary to comply with W. Va. Code § 22-6A-5a (12), which requires drilling to a minimum depth of thirty feet below the bottom of the void, and installing a minimum of twenty (20) feet of casing. Under no circumstance should the operator drill more than fifty (50) feet below the bottom of the void or install less than twenty (20) feet of casing below the bottom of the void.

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

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

5. Oil and gas water supply wells will be registered with the Office of Oil and Gas and all such wells will be constructed and plugged in accordance with the standards of the Bureau for Public Health set forth in its Legislative rule entitled Water Well Regulations, 64 C.S.R. 19. Operator is to contact the Bureau of Public Health regarding permit requirements. In lieu of plugging, the operator may transfer the well to the surface owner upon agreement of the parties. All drinking water wells within fifteen hundred feet of the water supply well shall be flow tested by the operator upon request of the drinking well owner prior to operating the water supply well.

6. Pursuant to the requirements pertaining to the sampling of domestic water supply wells/springs the operator shall, no later than thirty (30) days after receipt of analytical data provide a written copy to the Chief and any of the users who may have requested such analyses.

7. If any explosion or other accident causing loss of life or serious personal injury occurs in or about a well or well work on a well, the well operator or its contractor shall give notice, stating the particulars of the explosion or accident, to the oil and gas inspector and the Chief, within 24 hours of said accident.

8. During the casing and cementing process, in the event cement does not return to the surface, the oil and gas inspector shall be notified within 24 hours.
STATE OF WEST VIRGINIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS
WELL WORK PERMIT APPLICATION

1) Well Operator: Noble Energy, Inc 494501907 Marshall Franklin Powhatan Point
   Operator ID County District Quadrangle

2) Operator's Well Number: MND 3 FHS Well Pad Name: MND 3

3) Elevation, current ground: 1128.39' Elevation, proposed post-construction: 1112'

4) Well Type: (a) Gas [ ] Oil [ ] Underground Storage [ ]
   Other [ ]
   (b) If Gas: Shallow [ ] Deep [ ] Horizontal [ ]

5) Existing Pad? Yes or No: NO

6) Proposed Target Formation(s), Depth(s), Anticipated Thicknesses and Associated Pressure(s):

7) Proposed Total Vertical Depth: 6276'

8) Formation at Total Vertical Depth: Marcellus

9) Proposed Total Measured Depth: 12,804'

10) Approximate Fresh Water Strata Depths: 165', 298'

11) Method to Determine Fresh Water Depth: Offset well data

12) Approximate Saltwater Depths: None noted for offsets

13) Approximate Coal Seam Depths: 612' Pittsburgh Base

14) Approximate Depth to Possible Void (coal mine, karst, other): None anticipated, drilling in pillar-see mine maps

15) Does proposed well location contain coal seams directly overlying or adjacent to an active mine? If so, indicate name and depth of mine: Yes, McElroy & Ireland Mine at approx. 612'

16) Describe proposed well work: Drill the vertical depth to the Marcellus at an estimated total vertical depth of approximately 6,276 feet.
    Drill Horizontal leg - stimulate and produce the Marcellus Formation.
    If we should encounter an unanticipated void we will install casing at a minimum of 20' below the void but not more than 50' below the void, set a basket and grout to surface.

17) Describe fracturing/stimulating methods in detail:
    The stimulation will be multiple stages divided over the lateral length of the well. Stage spacing is dependent upon engineering design. Stimulation fracturing technique will be utilized on each stage using sand, water, and chemicals. See attached list.

18) Total area to be disturbed, including roads, stockpile area, pits, etc., (acres): 15.6 acres

19) Area to be disturbed for well pad only, less access road (acres): 9.1 acres

OCT 18 2013
20) CASING AND TUBING PROGRAM

<table>
<thead>
<tr>
<th>TYPE</th>
<th>Size</th>
<th>New or Used</th>
<th>Grade</th>
<th>Weight per ft</th>
<th>FOOTAGE: For Drilling</th>
<th>INTERVALS: Left in Well</th>
<th>CEMENT: Fill-up (Cu. Ft.)</th>
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<tbody>
<tr>
<td>Conductor</td>
<td>30''</td>
<td>N</td>
<td>LS</td>
<td>117#</td>
<td>40'</td>
<td>40'</td>
<td>CTS</td>
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<tr>
<td>Fresh Water</td>
<td>20''</td>
<td>N</td>
<td>J-55</td>
<td>94#</td>
<td>400'</td>
<td>400'</td>
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<tr>
<td>Coal</td>
<td>13 3/8''</td>
<td>N</td>
<td>J-55</td>
<td>54.5#</td>
<td>1062'</td>
<td>1062'</td>
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<tr>
<td>Intermediate</td>
<td>9 5/8''</td>
<td>N</td>
<td>J-55</td>
<td>36#</td>
<td>2600' or 100' past Big Injur</td>
<td>2600' or 100' past Big Injur</td>
<td>CTS</td>
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<tr>
<td>Production</td>
<td>5 1/2''</td>
<td>N</td>
<td>P110</td>
<td>20#</td>
<td>12,804'</td>
<td>12,804'</td>
<td>TOC 200' above 9,625 shoe</td>
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<td>Tubing</td>
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<th>Size</th>
<th>Wellbore Diameter</th>
<th>Wall Thickness</th>
<th>Burst Pressure</th>
<th>Cement Type</th>
<th>Cement Yield</th>
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<td>36''</td>
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<td>Type 1/Class A</td>
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<td>Fresh Water</td>
<td>20''</td>
<td>26''</td>
<td>.438</td>
<td>2730</td>
<td>Type 1/Class A</td>
<td>1.2</td>
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<td>Coal</td>
<td>13 3/8''</td>
<td>17 1/2''</td>
<td>.380</td>
<td>2730</td>
<td>Type 1/Class A</td>
<td>1.2</td>
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<td>Intermediate</td>
<td>9 5/8''</td>
<td>12 3/8''</td>
<td>.352</td>
<td>3520</td>
<td>Type 1/Class A</td>
<td>1.19</td>
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<tr>
<td>Production</td>
<td>5 1/2''</td>
<td>8 3/4'' &amp; 8 1/2''</td>
<td>.361</td>
<td>12,640</td>
<td>Type 1/Class A</td>
<td>1.27</td>
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<td>Tubing</td>
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</tr>
<tr>
<td>Liners</td>
<td></td>
<td></td>
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<td></td>
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</tr>
</tbody>
</table>

PACKERS

| Kind:               |       |
| SIZES:              |       |
| Depths Set:         |       |
21) Describe centralizer placement for each casing string. No centralizers will be used with conductor casing. Surface casing will have bow spring centralizers on first 2 joints then every third joint to 100' from surface. Intermediate casing will have bow spring centralizers on first 2 joints then every third joint to 100' from surface. Production string will have a rigid bow spring every joint to KOP, rigid bow spring every third joint from KOP to top of cement.

22) Describe all cement additives associated with each cement type. Conductor-1.15% CaCl2.
   Surface-Class A cement with flake and CaCl2
   Intermediate- 15.6 ppg Class A +0.4% Ret, 0.15% Disp, 0.2% AntiFoam, 0.125#/sk Lost circ 30% Excess Yield=1.19 to surface. Production- 14.8 ppg class A 25:75:0 System +2.6% Cement extender, 0.7% Fluid Loss additive, 0.45% high temp retarder, 0.2% friction reducer 15% Excess Yield=1.27 TOC greater or equal to 200' above 9.625" shoe.

23) Proposed borehole conditioning procedures. Conductor-The hole is drilled w/air and casing is run on air. Apart from insureing the hole is clean via air circulation at TD, there are no other conditioning procedures. Surface-The hole is drilled w/air and casing is run on air. Fill with KCl water once drilled to TD. Once casing is at setting depth, circulate a minimum of one hole volume prior to pumping cement. Coal-The hole is drilled and cased w/air or on Freshwater based mud. Once casing is at setting depth, the hole is filled w/KCl water and a minimum of one hole volume is circulated prior to pumping cement. Intermediate-Once surface casing is set and cemented, intermediate hole is drilled either on air or or SOBM and filled with KCl water once drilled to TD. Production-The hole is drilled with SOBM and once to TD, circulated at maximum allowable pump rate for at least 6x bottoms up. Once on bottom with casing, circulate a minimum of one hole volume prior to pumping cement.

*Note: Attach additional sheets as needed.
<table>
<thead>
<tr>
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<th>Product Use</th>
<th>Chemical Name</th>
<th>CAS Number</th>
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</thead>
<tbody>
<tr>
<td>Calcium Chloride Flake</td>
<td>Cement Accelerator</td>
<td>Calcium Chloride</td>
<td>10043-52-4</td>
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<td></td>
<td>Potassium Chloride</td>
<td>7447-40-7</td>
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<td>Water</td>
<td>7732-18-5</td>
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<td></td>
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<td>Sodium Chloride</td>
<td>7647-14-5</td>
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<tr>
<td>C-41L</td>
<td>De-foamer</td>
<td>Methyl Alcohol</td>
<td>67-56-1</td>
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<td>Tributyl Phosphate</td>
<td>126-73-8</td>
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<td>Pol-E-Flake</td>
<td>LCM</td>
<td>Polyester</td>
<td>Non-Hazardous</td>
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<table>
<thead>
<tr>
<th>Product Name</th>
<th>Product Use</th>
<th>Chemical Name</th>
<th>CAS Number</th>
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<tr>
<td>Bentonite Gel</td>
<td>Viscosifier</td>
<td>Crystalline Silica, Quartz</td>
<td>14808-60-7</td>
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<tr>
<td>Baro-Seal</td>
<td>LCM</td>
<td>Mixture</td>
<td>Non-Hazardous</td>
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<tr>
<td>Pol-E-Flake</td>
<td>LCM</td>
<td>Polyester</td>
<td>Non-Hazardous</td>
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### DRILLING WELL PLAN
**MND-3F-HS (Marcellus HZ)**
Macellus Shale Horizontal
Marshall County, WV

<table>
<thead>
<tr>
<th>Ground Elevation</th>
<th>MND-3F SHL (Lat/Long)</th>
<th>MND-3F LP (Lat/Long)</th>
<th>MND-3F BHL (Lat/Long)</th>
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</thead>
<tbody>
<tr>
<td>1112'</td>
<td>(494430.54N, 1637194.42E) (NAD27)</td>
<td>(493870.57N, 1636999.43E) (NAD27)</td>
<td>(488917.84N, 1640467.38E) (NAD27)</td>
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</table>

#### Azm

<table>
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<tr>
<th>Depth</th>
<th>149.302'</th>
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#### WELLBORE DIAGRAM

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<tr>
<th>Depth</th>
<th>Azm</th>
<th>HOLE</th>
<th>CASING</th>
<th>GEOL</th>
<th>NO</th>
<th>TVD</th>
<th>MUD</th>
<th>CEMENT</th>
<th>CENTRALIZERS</th>
<th>COMMENTS</th>
</tr>
</thead>
<tbody>
<tr>
<td>36</td>
<td>30° 117'</td>
<td>AIR</td>
<td>To Surface</td>
<td>N/A</td>
<td>Ensures the hole is clean at TD.</td>
<td>Stabilizes surface finish. Conductor casing = 0.375' well thickness.</td>
<td></td>
<td></td>
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<tr>
<td>28</td>
<td>20° BHP</td>
<td>AIR</td>
<td>15.6 ppg Type 1 + 2% CaCl, 0.25% Lost Circ. 30% Excess Yield = 1.18</td>
<td>Centralized every 3 joints to surface.</td>
<td>Fill with KCl water once added to TD. Once casing is at setting depth, circulate a minimum of one hole volume prior to pumping cement. Surface casing = 0.432' wall thickness. Buried=2720 psi. Intermediate casing = 0.330' well thickness. Buried=3220 psi.</td>
<td></td>
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</tr>
<tr>
<td>17.5</td>
<td>13.5°/64.5° J-55 B1C</td>
<td>AIR</td>
<td>15.6 ppg Type 1 + 2% CaCl, 0.25% Lost Circ. 30% Excess Yield = 1.18</td>
<td>Bow Spring on first 2 joints then every 3rd joint to 190' from surface.</td>
<td>Fill with KCl water once added to TD. Once casing is at setting depth, circulate a minimum of one hole volume prior to pumping cement. Casing to be ran 250' below the 5th Sand. Intermediate casing = 0.332' wall thickness. Buried=3210 psi.</td>
<td></td>
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</tr>
<tr>
<td>12.75</td>
<td>9-5/8' 36' J-55 L1C</td>
<td>AIR</td>
<td>15.6 ppg Type A + 0.4% FDP, 0.10% Diso, 0.2% Antifoam, 0.25% Calcium LCA. 20% Excess Yield = 1.19</td>
<td>Bow Spring centralized every third joint to 190' feet from surface.</td>
<td>Fill with KCl water once added to TD. Once casing is at setting depth, circulate a minimum of one hole volume prior to pumping cement. Production casing = 0.311' well thickness. Buried=2990 psi. Hole-Actual centralizer schedules may be changed due to hole conditions.</td>
<td></td>
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<tr>
<td></td>
<td>8.75° Vertical</td>
<td>8.0ppg - 4.0ppg SBDM</td>
<td>14.8ppg Type A 25-75 System</td>
<td>Right Bow Spring every joint from KGP to TOC</td>
<td>Once at TD, circulate at max allowable pump rate for at least 2 hours. Once on bottom with casing, circulate a minimum of one hole volume prior to pumping cement.</td>
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<tr>
<td></td>
<td>8.75° Curve</td>
<td>12.5ppg - 12.5ppg SBDM</td>
<td>10% Excess Yield = 1.27</td>
<td>Right Bow Spring every joint to KGP</td>
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<td></td>
</tr>
<tr>
<td></td>
<td>8.75° - 8.5° Lateral</td>
<td>12.0ppg - 12.0ppg SBDM</td>
<td>TOC &gt;= 200' above 9-60'/10'</td>
<td></td>
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</tbody>
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**WV Dept. of Environmental Protection**

**Office of Oil and Gas**

**Received**
STATE OF WEST VIRGINIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION
OFFICE OF OIL AND GAS

FLUIDS/ CUTTINGS DISPOSAL & RECLAMATION PLAN

Operator Name: Noble Energy, Inc
OP Code: 494501907

Watershed (HUC 10) Short Creek-Ohio River HUC 10 Quadrangle Powhatan Point
Elevation 1112' County Marshall District Franklin

Do you anticipate using more than 5,000 bbls of water to complete the proposed well work? Yes ☑ No

Will a pit be used for drill cuttings? Yes ☑ No

If so, please describe anticipated pit waste: Closed Loop-no pit will be utilized

Will a synthetic liner be used in the pit? Yes ☑ No ☑ If so, what m.t. ?

Proposed Disposal Method For Treated Pit Wastes:

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

Will closed loop system be used? Yes

Drilling medium anticipated for this well? Air, freshwater, oil based, etc. Air/water based mud thru intermediate string then SOBM

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

Additives to be used in drilling medium? Please see attached list

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

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

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: Laura L. Adkins
Company Official (Typed Name): Laura L. Adkins
Company Official Title: Regulatory Analyst

Subscribed and sworn before me this 3rd day of July
My commission expires Jan 14, 2020
Form WW-9

Noble Energy, Inc

Operator's Well No. MND 3 FHS

Proposed Revegetation Treatment: Acres Disturbed 15.6 acres

Prevegetation pH

Lime 2 to 3 Tons/acre or to correct to pH

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

Mulch hay or straw at 2 Tons/acre

Seed Mixtures

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<tr>
<th>Seed Type</th>
<th>Area I</th>
<th>lbs/acre</th>
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<tbody>
<tr>
<td>Tall Fescue</td>
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<tr>
<td>Ladino Clover</td>
<td>5</td>
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<tr>
<th>Seed Type</th>
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</tr>
<tr>
<td>Ladino Clover</td>
<td>5</td>
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</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: Bill Hendershot

Comments:

Title: Oil and Gas Inspector

Field Reviewed? ( ) Yes  ( ) No

Date: 7-9-13
Site Water/Cuttings Disposal

Cuttings
Haul off Company:

Eap Industries, Inc.  DOT # 0876278
1575 Smith Twp State Rd. Atlasburg PA 15004
1-888-294-5227

Disposal Locations:

Apex Environmental, LLC  Permit # 06-08438
11 County Road 78
Amsterdam, OH  43903
740-543-4389

Westmoreland Waste, LLC  Permit # 100277
111 Conner Lane
Belle Vernon, PA  15012
724-929-7694

Sycamore Landfill (Allied Waste) R30-07900105-2010
4301 Sycamore Ridge Road
Hurricane, WV  25526
304-562-2611

Water
Haul off Company:
Dynamic Structures, Clear Creek  DOT # 720485
3790 State Route 7
New Waterford, OH  44445
330-892-0164

Disposal Location:

Solidification
Waste Management, Arden Landfill  Permit # 100172
200 Rangos Lane
Washington, PA  15301
724-225-1589

Solidification/Incineration
Soil Remediation, Inc.  Permit # 02-20753
6065 Arrel-Smith Road
Lowelville, OH  44436
330-536-6825
Important:

For each proposed secondary water source identified in your water management plan (i.e., groundwater well, lake/reservoir, recycled frac water, multi-site impoundment, out-of-state source), DEP makes no estimation of the availability of water. These sources may prove to be unsuitable water supplies. Please review the following notes:

• For groundwater supply wells, DEP recommends that the operator contact the local health department prior to drilling any new well; and reminds the operator that all drinking water wells within 1,500 feet of a water supply well shall be flow- and quality-tested by the operator at the request of the drinking well owner prior to operation of the water supply well.

• For each proposed multi-site impoundment water source identified in your water management plan (if applicable), DEP will review the withdrawal limits established in the referenced Water Management Plan for current suitability and provide to the operator these limits for each identified intake. Note that withdrawal limits may be modified as necessary based on changing demands upon that water supply.

Multi-site impoundment

Source ID: 23938  Source Name: Moundsville 3 Tank Pad
Source Lat: 39.8486  Source Long: -80.793695  County: Marshall
Max. Daily Purchase (gal):  Total Volume from Source (gal): 9,000,000

DEP Comments:

The intake identified above has been defined in a previous water management plan. The thresholds established in that plan govern this water management plan unless otherwise noted.

Reference: WMP-1426

APPROVED SEP 10 2013
Important:

For each proposed secondary water source identified in your water management plan (i.e., groundwater well, lake/reservoir, recycled frac water, multi-site impoundment, out-of-state source), DEP makes no estimation of the availability of water. These sources may prove to be unsuitable water supplies. Please review the following notes:

• For groundwater supply wells, DEP recommends that the operator contact the local health department prior to drilling any new well; and reminds the operator that all drinking water wells within 1,500 feet of a water supply well shall be flow- and quality-tested by the operator at the request of the drinking well owner prior to operation of the water supply well.

• For each proposed multi-site impoundment water source identified in your water management plan (if applicable), DEP will review the withdrawal limits established in the referenced Water Management Plan for current suitability and provide to the operator these limits for each identified intake. Note that withdrawal limits may be modified as necessary based on changing demands upon that water supply.

Recycled Frac Water

Source ID: 23939  Source Name: Various

Source Lat:  
Source Long:  
Max. Daily Purchase (gal)  
Total Volume from Source (gal): 6,000,000

Source start date: 10/1/2013  
Source end date: 10/1/2014

County  
DEP Comments: Sources include, but are not limited to, MNDS3 and WEB22 well pads.
Well is located on topo map 9,000' feet south of Latitude: 39° 52’ 30”

Blue Mountain Engineering
BURTON, WV 25628

FILE #: MND3FHS
DRAWING #: MND3FHS
SCALE: 1” = 2000’

THE UNDERSIGNED, HEREBY CERTIFY THAT THIS PLAT IS CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF AND SHOWS ALL THE INFORMATION REQUIRED BY LAW AND THE REGULATIONS ISSUED AND PRESCRIBED BY THE DEPARTMENT OF ENVIRONMENTAL PROTECTION.

Signed: __________________________

R.P.E.: __________________________
L.L.S.: P.S. No. 2000

+ (+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS
WVDEP
OFFICE OF OIL & GAS
601 5TH STREET
CHARLESTON, WV 25304

Well Type: [ ] Oil [ ] Waste Disposal [x] Production [ ] Deep
[ ] Gas [ ] Liquid Injection [ ] Storage [x] Shallow

WATERSHED: [ ] HOG RUN [x] Short Creek [x] HUELO

ELEVATION: 1128.39’

COUNTY/DISTRICT: MARSHALL / FRANKLIN

QUADRANGLE: POWHATAN POINT, OH-WV 7.5’

SURFACE OWNER: CONSOLIDATION COAL COMPANY

ACREAGE: 180.2144

OIL & GAS ROYALTY OWNER: SEE ATTACHED MM-6A1

ACREAGE: 380.9114

DRILL [x] CONVERT [ ] DRILL DEEPER [x] REDRILL [ ] FRACTURE OR STIMULATE [ ]

PLUG OFF OLD FORMATION [x] PERFORATE NEW FORMATION [ ] PLUG & ABANDON [ ]

CLEAN OUT & REPLUG [ ] OTHER CHANGE [ ] (SPECIFY): [ ]

TARGET FORMATION: MARCELLUS

ESTIMATED DEPTH: TVD: 6,279’ [x] TBD: 12,804’

WELL OPERATOR: NOBLE ENERGY, INC.

DESIGNATED AGENT: STEVEN M. GREEN

Address: 333 TECHNOLOGY DRIVE, SUITE 116

City: CANONSBURG State: PA Zip Code: 15317

Address: 500 VIRGINIA STREET EAST, UNITED CENTER SUITE 590

City: CHARLESTON State: WV Zip Code: 25301