April 02, 2015

WELL WORK PERMIT
Horizontal 6A Well

This permit, API Well Number: 47-5101821, 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: SHL 27 DHS
Farm Name: WARD, STEVE & ED
API Well Number: 47-5101821
Permit Type: Horizontal 6A Well
Date Issued: 04/02/2015

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 (USACE). Through this permit, you are hereby being advised to consult with USACE 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 site 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.

9. Operator shall provide the Office of Oil & Gas notification of the date that drilling commenced on this well. Such notice shall be provided by sending an email to DEPOOGNotify@wv.gov within 30 days of commencement of drilling.

04/03/2015
STATE OF WEST VIRGINIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS
WELL WORK PERMIT APPLICATION

Operator ID County District Quadrangle

2) Operator's Well Number: SHL 27 DHS Well Pad Name: SHL 27

3) Farm Name/Surface Owner: Steve & Ed Ward Public Road Access: Irish Ridge Road / Co. Rt 046

4) Elevation, current ground: 1167.4' Elevation, proposed post-construction: 1158'

5) Well Type (a) Gas Oil Underground Storage
(b) If Gas Shallow Deep Horizontal

6) Existing Pad: Yes or No No

7) Proposed Target Formation(s), Depth(s), Anticipated Thickness and Associated Pressure(s):
   Marcellus 6486' / 6537' Thick 51' / 4314 psi

8) Proposed Total Vertical Depth: 6523'

9) Formation at Total Vertical Depth: Marcellus

10) Proposed Total Measured Depth: 15,141'

11) Proposed Horizontal Leg Length: 7,341'

12) Approximate Fresh Water Strata Depths: from 349' to 994'

13) Method to Determine Fresh Water Depths: nearest offset wells and nearby deep water well (PA#115834)

14) Approximate Saltwater Depths: 1408'-1830'

15) Approximate Coal Seam Depths: 634-644

16) Approximate Depth to Possible Void (coal mine, karst, other): none

17) Does Proposed well location contain coal seams directly overlying or adjacent to an active mine? Yes ☑ No ☐

(a) If Yes, provide Mine Info: Name: Shoemaker Mine
Depth: 634-644' - drilling into a interior barrier 934' from proposed mining
Seam: Pittsburgh No. 8
Owner: Consolidation Coal Company (Murray American Energy Inc.)

RECEIVED
Office of Oil and Gas
MAR 3 1 2015
WV Department of Environmental Protection

04/03/2015
### CASING AND TUBING PROGRAM

<table>
<thead>
<tr>
<th>TYPE</th>
<th>Size</th>
<th>New/Used</th>
<th>Grade</th>
<th>Weight per ft (lb/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>20&quot;</td>
<td>New</td>
<td>LS</td>
<td>94#</td>
<td>40'</td>
<td>surface to TD</td>
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<tr>
<td>Fresh Water</td>
<td>13 3/8&quot;</td>
<td>New</td>
<td>J-55</td>
<td>54.5#</td>
<td>104' or to next component formation, not deeper than 30' Freshwater</td>
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<td></td>
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<tr>
<td>Coal</td>
<td>13 3/8&quot;</td>
<td>New</td>
<td>J-55</td>
<td>54.5#</td>
<td>104' due to formation issues</td>
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<tr>
<td>Intermediate</td>
<td>9 5/8&quot;</td>
<td>New</td>
<td>HCK-55</td>
<td>36.0#</td>
<td>3032' or 250' below 5th sand</td>
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<td></td>
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<td>Production</td>
<td>5 1/2&quot;</td>
<td>New</td>
<td>P-110</td>
<td>20.0#</td>
<td>15,141'</td>
<td>15,141'</td>
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<td>Tubing</td>
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<td>Liners</td>
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**JV 3/31/15**

### TYPE

<table>
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<tr>
<th>Size</th>
<th>Wellbore Diameter</th>
<th>Wall Thickness</th>
<th>Burst Pressure</th>
<th>Cement Type</th>
<th>Cement Yield (cu. ft/k)</th>
<th><strong>Max Associated Surface Pressure (psi) (13 3/8) Freshwater casing 1200</strong></th>
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<tbody>
<tr>
<td>20&quot;</td>
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<td>0.438</td>
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<td>17.5&quot;</td>
<td>0.380</td>
<td>2730</td>
<td>Class A</td>
<td>30% Excess Yield = 1.18</td>
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<tr>
<td>13 3/8&quot;</td>
<td>17.5</td>
<td>0.380</td>
<td>2730</td>
<td>Class A</td>
<td>30% Excess Yield = 1.18</td>
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<td>9 5/8&quot;</td>
<td>12 3/8&quot;</td>
<td>0.352</td>
<td>3520</td>
<td>Class A</td>
<td>30% Excess Yield = 1.27</td>
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<tr>
<td>5 1/2&quot;</td>
<td>8.75&quot; - 8.5&quot;</td>
<td>0.361</td>
<td>12,640</td>
<td>Class A</td>
<td>10% Excess Yield = 1.27</td>
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<tr>
<td>Tubing</td>
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<td></td>
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<tr>
<td>Liners</td>
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<td></td>
</tr>
</tbody>
</table>

### PACKERS

- Kind:
- Sizes:
- Depths Set:

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Office of Oil and Gas

MAR 31 2015

WV Department of Environmental Protection
19) Describe proposed well work, including the drilling and plugging back of any pilot hole:

Drill the vertical depth to the Marcellus at an estimated total vertical depth of approximately 6,527 feet. Drill Horizontal leg stimulate and be capable of producing from the Benson to the Marcellus Formation. Due to Red Rock/Formation issues install the 13 3/8" to 1044' but not deeper than elevation. Should we encounter an unanticipated void we will install a minimum of 20' of casing below the void but not more than 100' below the void, set a basket and grout to surface.

20) Describe fracturing/stimulating methods in detail, including anticipated max pressure and max rate:

The stimulation will be multiple stages divided over the lateral length of the well. Stage spacing is dependent upon engineering design. Slickwater fracturing technique will be utilized on each stage using sand, water, and chemicals. our maximum pressure is not to exceed 10,000 lbs. Please refer to attached list.

21) Total Area to be disturbed, including roads, stockpile area, pits, etc., (acres): 19.325

22) Area to be disturbed for well pad only, less access road (acres): 10.228

23) Describe centralizer placement for each casing string:

Conductor - No centralizers used. Fresh Water/Surface - centralized every three joints to surface. Coal - Bow Spring on first two joints then every third joint to 100' from surface. Intermediate - Bow Springs centralizers every third joint to 100' from Surface. Production - Rigid bow springs every third joint from KOP to TOC, rigid bow springs every joint to KOP.

24) Describe all cement additives associated with each cement type:

See attached sheet - Conductor - Type III. Fresh Water/Coal - 15.6 ppg Class A CaCl (CA-100), 0.25# lost circ. (CLC-CPF), 30%excess yield =1.18. Intermediate- Allied 16.2 ppg Class A + 0.2 lb/sk C-16A, 0.3 lb/sk C-35, 0.25 lb/sk C-41P 30% Excess Yield =1.10. Production - 14.6 ppg 65/35 Class A/POZ +/-0.5% fluid loss additive, +/-0.3% retarder, +/-0.6% dispersant, +/-0.2% antifoam, +/-0.1% antisettling 10% Excess Yield 1.27 TOC>=200' above 9.625" shoe.

25) Proposed borehole conditioning procedures:

Conductor - The hole is drilled w/air and casing is run in air. Apart from insuring the hole is clean via air circulation at TD, there are no other conditioning procedures. Coal and Fresh Water/Surface -The hole is drilled w/air and casing is run in air. Once casing is at setting depth, circulate a minimum of one hole volume prior to pumping cement. Intermediate - Once surface casing is set and cemented Intermediate hole is drilled either on air or SOBM and filled w/ KCI water once filled w/ KCI water once drilled to TD. The well is conditioned with KCI circulation prior to running casing. Once casing is at setting depth, the well is circulated a minimum of one hole volume prior to pumping cement. Production - The hole is drilled with synthetic oil base mud and once at TD the hole is circulated at maximum allowable drilling 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.
# Noble Energy SHL 27D Drilling Plan

**SHL 27D SHL**

- **Well**: Macellus Shale Horizontal
- **Location**: Marshall County, WV
- ** Depths**:
  - **Ground Elevation**: 1159’
  - **Azm**: 159°
  - **533011.642N 1695631.398E**
  - **533350.545N 1696443.962E**
  - **524824.078N 1699954.342E**

## Well Bore Diagram

<table>
<thead>
<tr>
<th>HOLE</th>
<th>CASING</th>
<th>GEOLOGY</th>
<th>TOP</th>
<th>BASE</th>
<th>MUD</th>
<th>CEMENT</th>
<th>CENTRALIZERS</th>
<th>CONDITIONING</th>
<th>COMMENTS</th>
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<tr>
<td>26</td>
<td>20”-94#</td>
<td>Conductor</td>
<td>40</td>
<td>40</td>
<td>AIR</td>
<td>Type III surface to TD</td>
<td>N/A</td>
<td>Conductor casing = 0.436” wall thickness</td>
<td>Ensure the hole is clean at TD.</td>
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<tr>
<td>17 1/2</td>
<td>13-3/8” 54.59</td>
<td>Pittsburgh Coal</td>
<td>634</td>
<td>644</td>
<td>AIR / FRESH WATER MIST</td>
<td>15.6 ppg Class A 0.25% Lost Circ 30% Excess Yield = 1.16</td>
<td>Bow Spring on first 2 joints then every third joint to 100’ form surface</td>
<td>Fill with &gt;3% KCl water once casing is at setting depth, circulate a minimum of one hole volume prior to pumping cement.</td>
<td></td>
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<tr>
<td>12 3/8</td>
<td>9-5/8” 36#</td>
<td>Big Lime</td>
<td>1639</td>
<td>1719</td>
<td>AIR</td>
<td>Allied 16.2 ppg Class A + 0.2 lb/lb C-16A, 0.3 lb/lb C-35, 0.23 lb/lb C-41P 30% Excess Yield = 1.10</td>
<td>Bow Spring centralizers every joint to 200’ above storage zone, then every third joint to 100’ feet from surface.</td>
<td>Once casing is at setting depth, circulate a minimum of one hole volume prior to pumping cement.</td>
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<tr>
<td>8.75° Vertical</td>
<td>5-1/2” 20#</td>
<td>Warren Sand</td>
<td>4224</td>
<td>4233</td>
<td>AIR</td>
<td>14.6ppg 65/35 Class A/Poz +0-0.5% fluid loss additive, +/0-0.3% retarder, +/-0.6% dispersant, +/-0-2% antifoam, +/-0-1% antisticking</td>
<td>Rigid Bow Spring every 3rd joint from KOP to TOC</td>
<td>Once at TD, circulate at max allowable pump rate for at least 6x bottom hole. Once on bottom with casing, circulate a minimum of one hole volume prior to pumping cement.</td>
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<td>8.75° Curve</td>
<td>5-1/2” 20#</td>
<td>Java Shale</td>
<td>4891</td>
<td>5062</td>
<td>12.0ppg-12.5ppg SOBM</td>
<td>10% Excess Yield = 1.27</td>
<td>Rigid Bow Spring every joint to KOP</td>
<td>Production casing = 0.361” wall thickness Burst=1264 psi Noz Actual centralizer schedules may be changed due to hole conditions</td>
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<tr>
<td>8.75° - 8.5” Lateral</td>
<td>8.5”</td>
<td>Angola Shale</td>
<td>5119</td>
<td>5744</td>
<td>TCC &gt;= 200’ above 9.625” shoe</td>
<td>Rigid Bow Spring every joint to KOP</td>
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<td>Rhinestreet</td>
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<td>Tully Limestone</td>
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<td>TD</td>
<td>15141</td>
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<td>Onondaga</td>
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</table>

- **LP @ 6523’ TVD / 7800’ MD**
- **8.75 / 8.5” Hole - Cemented Long String**
- **5-1/2” 20# HCP-110 TXP BTC**
- **+/-7341’ ft Lateral**
- **TD @ +/6523’ TVD**
- **+/-15141’ MD**

**51-01821**

---

*Note: Actual centralizer schedules may be changed due to hole conditions.*
<table>
<thead>
<tr>
<th>Fresh Water Protection String</th>
<th>Cement Additives</th>
<th>Additive (Material)</th>
<th>CAS #</th>
<th>Additive (Material) Description</th>
<th>Lost Circulation Aid</th>
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<td>65997-15-1</td>
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<td>10043-52-4</td>
<td>Grey powder</td>
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<td>7447-40-7</td>
<td>White and colored flake</td>
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<td>7732-18-5</td>
<td>Non-Hazardous</td>
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</tbody>
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A-0100

LC-CBF (Cellophane flakes)

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Office of Oil and Gas

MAR 31 2015
WV Department of Environmental Protection

04/03/2015
STATE OF WEST VIRGINIA  
DEPARTMENT OF ENVIRONMENTAL PROTECTION  
OFFICE OF OIL AND GAS  

FLUIDS/CUTTINGS DISPOSAL & RECLAMATION PLAN  

Operator Name: Noble Energy, Inc.  
Operator's Well No.: SHL 27 DHS  
API Number: 47-051-051-051  
OP Code: 494501907  

Watershed (HUC 10): Wheeling Creek (undefined)  
Quadrangle: Majorsville  
County: Marshall  
District: Webster  

Elevation: 1158.0'  

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

Will a pit be used?  
Yes [x]  No [ ]  

If so, please describe anticipated pit waste: closed loop-no utilization of a pit  

Will a synthetic liner be used in the pit?  
Yes [x]  No [ ]  
If so, what ml.?  

Proposed Disposal Method For Treated Pit Wastes:  

- Land Application  
- Underground Injection (UIC Permit Number: See attached sheet)  
- Reuse (at API Number: at next anticipated well)  
- Off Site Disposal (Supply form WW-9 for disposal location)  
- Other (Explain)  

Will closed loop system be used?  Yes [x]  
If so, describe: 

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

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

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

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 sheet  

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:  
Company Official (Typed Name): Kim Ward  
Company Official Title: Regulatory Analyst I  

Received  
Office of Oil & Gas  
JAN 2, 2015  

Subscribed and sworn before me this 14 day of Jan. 2015.  

Notary Public  
My commission expires 09/19/2023  

04/03/2015
Form WW-9

Noble Energy, Inc.

Proposed Revegetation Treatment: Acres Disturbed 19.325 Prevegetation pH 6.0

Lime 2-3 Tons/acre or to correct to pH 10-20-20 or equal
Fertilizer type
Fertilizer amount 500 lbs/acre
Mulch Hay or Straw at 2 Tons/acre

Seed Mixtures

<table>
<thead>
<tr>
<th>Seed Type</th>
<th>Temporary</th>
<th>Lbs/acre</th>
<th>Permanent</th>
<th>Lbs/acre</th>
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<tbody>
<tr>
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<tr>
<td>Ladino Clover</td>
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<td></td>
<td>Ladino Clover</td>
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</table>

*alternative seed mixtures are shown on the Site Design.

Attach:
Drawing(s) of road, location, pit and proposed area for land application (unless engineered plans including this info have been provided)

Photocopied section of involved 7.5' topographic sheet.

Plan Approved by: [Signature]

Comments: Pre seed and mulch all cut area, maintain all E & S during operation.

Received
Office of Oil & Gas
JAN 2 2 2015

Oil and Gas Inspector

Title: ____________________________ Date: 1/14/2013

Field Reviewed? (____) Yes (_____) No

04/03/2015
Cuttings Disposal/Site Water

Cuttings – Haul off Company:

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

Waste Management
200 Rangos Lane
Washington, PA 15301
724-222-3272

Environmental Coordination Services & Recycling (ECS&R)
3237 US Highway 19
Cochranton, PA 16314
814-425-7773

Disposal Locations:

Apex Environnemental, 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 Inc. Permit #R30-079001 05-2010
4301 Sycamore Ridge Road
Hurricane, WV 25526
304-562-2611

Max Environnemental Technologies, Inc. facility Permit # PAD004835146 / 301071
233 Max Lane
Yukon, PA 25968
724-722-3500

Max Environnemental Technologies, Inc. Facility Permit # PADO05087072 / 301359
200 Max Drive
Bulger, PA 15019
724-796-1571

Waste Management Kelly Run Permit # 100663
1901 Park Side Drive
Elizabeth, PA 15037

Waste Management South Hills (Arnoni) Permit # 100592
3100 Hill Road
Library, PA 15129 724-348-7013

Waste Management Arden Permit # 100172
200 Rangos Lane
Washington, PA 15301
724-222-3272

Waste Management Meadowfill Permit # 1032
1488 Dawson Drive
Bridgeport, WV 26330

Brooke County Landfill Permit # SWF-103-97 / WV 0109029
Rd 2 Box 410
Colliers, WV 26035
304-748-0014

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Wetzel County Landfill Permit # SWF-1021-97 / WV 0109185
Rt 1 Box 156A
New Martinsville, WV 26035
304-455-3800

Energy Solutions, LLC Permit # UT 2300249
423 West 300 South
Suite 200
Salt Lake City, UT 84101

Energy Solutions Services, Inc. Permit # R-73006-L24
1560 Bear Creek Road
Oak Ridge, TN 37830

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

Disposal Locations:

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

Adams #1
 Permit # 34-031-2-7177
 23986 Airport Road
 Coshocton, OH 43812
 740-575-4484

Adams #2
 Permit # 34-031-2-7178
 740-575-4484

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04/03/2015
Site Safety Plan
Noble Energy, Inc.
SHL 27 Well Pad

DHS
January 2015: Version 1

For Submission to
West Virginia Department of Environmental Protection,
Office of Oil and Gas

Noble Energy, Inc.
Appalachia Offices
1000 Noble Energy Drive
Canonsburg, PA 15317-9504

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