

west virginia department of environmental protection

Office of Oil and Gas 601 57th Street SE Charleston, WV 25304 (304) 926-0450 (304) 926-0452 fax Earl Ray Tomblin, Governor Randy C. Huffman, Cabinet Secretary www.dep.wv.gov

April 02, 2015

WELL WORK PERMIT

Horizontal 6A Well

This permit, API Well Number: 47-5101822, 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 EHS

Farm Name: WARD, STEVE & ED

API Well Number: 47-5101822

Permit Type: Horizontal 6A Well

Date Issued: 04/02/2015

API Number: 4705101822

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. <u>Failure to adhere to the specified permit conditions may result in enforcement action.</u>

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.

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

| 1) Well Opera | tor: Noble Energ | gy, Inc. | | 494501907 | 051 - Marshall | Webster | Majorsville |
|-----------------|-------------------------------------|-------------------------------|----------|------------------------|------------------|--------------|--------------------|
| | | | | Operator ID | County | District | Quadrangle |
| 2) Operator's | Well Number: S | HL 27 EHS | S | Well Pac | Name: SHL | . 27 | |
| 3) Farm Name | /Surface Owner | Steve & Ed | Ward | Public Roa | d Access: Iris | h Ridge Road | / Co. Rt 046 |
| 4) Elevation, c | current ground: | 1167.4' | El | evation, proposed | post-construct | ion: 1158 | |
| 5) Well Type | (a) Gas | | Oil | Unde | erground Stora | ige | |
| | Other | | | | | | |
| | (b)If Gas Sl | nallow | B | Deep | | | |
| Market Command | | | | | | | W 3/31/15 |
| | d: Yes or No N | | | | | | |
| | arget Formation 6486' / 6537' Th | Contract to the second second | | ipated Thickness a | and Associated | Pressure(s) |): |
| 8) Proposed To | otal Vertical Dep | oth: 6523' | | | | | |
| 9) Formation a | at Total Vertical | Depth: Ma | rcellus | . | | | |
| 10) Proposed | Total Measured | Depth: 15, | 643' | | | | |
| 11) Proposed 1 | Horizontal Leg I | ength: 7,8 | 43' | | | | |
| 12) Approxim | ate Fresh Water | Strata Depth: | s: | from 349' to 994 | | | |
| 13) Method to | Determine Fres | h Water Dept | ths: r | nearest offset wel | ls and nearby | deep wate | r well (PA#115834) |
| 14) Approxim | ate Saltwater De | pths: 1408 | 3' - 183 | 30' | | | |
| 15) Approxim | ate Coal Seam D | epths: 634 | -644 | | | | |
| 16) Approxim | ate Depth to Pos | sible Void (c | oal mi | ne, karst, other): | none | | |
| | osed well location | | | ns Yes 🗸 | N | о 🔲 | |
| (a) If Yes, pr | rovide Mine Info | : Name: | Shoe | emaker Mine | | | |
| | | Depth: | 634-6 | 644' - drilling into a | a interior barri | er 934' from | proposed mining |
| | | Seam: | Pittst | ourgh No. 8 | | | |
| | | Owner: | Cons | solidation Coal Co | mpany (Murra | y American | Energy Inc.) |
| | DECE | VFD. | | | | | |

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18)

CASING AND TUBING PROGRAM

| TYPE | Size | New | Grade | Weight per ft. | FOOTAGE: For | INTERVALS: | CEMENT: |
|--------------|---------|-----------|--------|----------------|---|--|--|
| | | <u>0r</u> | | (lb/ft) | Drilling | Left in Well | Fill-up (Cu. |
| | 9-1-1 | Used | | | | | <u>Ft.)</u> |
| Conductor | 20" | New | LS | 94# | 40' Minimum or to the next component formation, but no deeper than 1st Freshwater | 40' | surface to TD |
| Fresh Water | 13 3/8" | New | J-55 | 54.5# | 1044" or to next component formation, not deeper than elevation | 1044' or to next component formation, not deeper than elevation | CTS 30% excess Yield =1 18 |
| Coal | 13 3/8" | New | J-55 | 54.5# | 1044' due to formation issues | 1044' due to formation issues | CTS 30% excess Yield = 1.18 |
| Intermediate | 9 5/8" | New | HCK-55 | 36.0# | 3032' or 250'below 5th sand | 3032' or 250' below 5th sand | CTS 20% excess Yield = 1,18 |
| Production | 5 1/2" | New | P-110 | 20.0# | 16,633' | 16,633' | 10% excess Yield = 1.27 TOC=200 above 9.625* shoe |
| Tubing | | | | | | | |
| Liners | | | | | | | |

| TYPE | Size | Wellbore Diameter | Wall Thickness | Burst Pressure | Cement Type | Cement Yield (cu. ft./k) |
|--------------|---------|----------------------|-------------------|----------------|-------------|---|
| Conductor | 20" | 26" | 0.438 | | Type III | surface to TD |
| Fresh Water | 13 3/8" | 17.5" | 0.380 | 2730 | Class A | 30% excess Yield = 1.18 |
| Coal | 13 3/8" | 17.5 | 0.380 | 2730 | Class A | 30% Excess Yield = 1.18 |
| Intermediate | 9 5/8" | 12 3/8" | 0.352 | 3520 | Class A | 30% excess Yield = 1.19 to surface |
| Production | 5 1/2" | 8.75" - 8.5" | 0.361 | 12,640 | Class A | 10% excess Yield = 1,27 TOC=200' above 9,625" shoe |
| Tubing | | | | | | |
| Liners | | | | | | |

**Max Associated Pressure (psi)(13 3/8)
Freshwater casing 1200

A 3/31/15

RS

PACKERS

| Kind: | | |
|-------------|--|--|
| Sizes: | | |
| Depths Set: | | |

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| 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 a 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): |
| 22) Area to be disturbed for well pad only, less access road (acres): |
| 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/ KCl water once filled w/ KCl water once drilled to TD. The well is conditioned with KCl 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. |

| 1159 | Ground Elevation | ner | noble | | | | | SHL 27E Macellus Shale Horizontal Marshall County, WV | SHL 27E Macellus Shale Horizontal Marshall County, WV | |
|--|---|--|-----------------|-------------|--|---------------------|-------------------------------------|---|--|---|
| 1159 | tion | | | | S | HL 27E | SHL | 53 | 33023.387N 169564 | 7.585E |
| HOLE CASING GEOLOGY TOP BASE MUD CEMENT CENTRALIZERS CONDITIONING | | 1159 | | | | SHL 27E | LP | 53 | 33458.492N 169704 | 3.178E |
| 17-12 13-38 54.56 Conductor 100 ANR Type III surface to TO NA Type III surface to TO Type III surface TO | | 159° | | | S | HL 27E | BHL | 52 | 25155.009N 170006 | 5.399E |
| 17 112 13-36" 54.56 Pattebugh Coal 634 AM TER SH 179pe III surface to TD NIA FRESH 15.6 pag Class A Bow Spring on first 2 Fall with 4-3% KCl water once of the coal | WELLBORE DIAGRAM HOLE | CASING | GEOLOGY | TOP | BASE | MUD | CEMENT | CENTRALIZERS | CONDITIONING | COMMENTS |
| 17-12 13-36-54.5# Phisburgh Coal 63-4 WATER FRESH 15 6pg Class A Bow Spring on first 2 Casing is at setting decrent 10-25 function 10-4 Water 10-4 Water 10-4 10-4 Water 10-4 10-4 Water 10-4 | 56 | 32"94# | Conductor | 40 | 40 | AIR | Type III surface to TD | NIA | Ensure the hole is clean at TD. | Conductor |
| 17 12 12.56 BTC Plitsburgh Coal 634 WiTEN 30% Excess Plitsburgh Coal 634 WiTEN 1044 Mist 16.2 ppg Class A Bow spring central profit of pumping central pumping central profit of pumping central profit of pumping central profit of pumping central pumping central pumping central pumping central profit of p | 100 M | ## ## ## ## ## ## ## ## ## ## ## ## ## | | | | AIR / | 15.6 ppg Class A 0,25# Lost Circ | Bow Spring on first 2 | Fill with <3% KCI water once casing is at setting depth, | ပိ |
| 12.3/8 | 17 1/2 | J-55 BTC | Pittsburgh Coal | 634 | 644 | WATER | 30% Excess Yield = 1.18 | joint to 100' form surface | circulate a minimum of one hole volume prior to numoing cement | Surface casing = 0.380" wall thickness |
| 12.36 | | | Int. Casing | | 1044 | | | | | Burst=2730 psi |
| 12.3/8 HCK-56 BTC Gordon 26.39 2662 AIR CA15, D25 lible C-194 Dave storage zone, representational properties | | | Big Lime | 1639 | 1719 | | Allied 16.2 ppg Class A + | | | Casing to be ran 250' belo |
| Fifth Sand 2748 2782 2792 2795 2 | 12 3/8 | 9-5/8" 36# | Gordon | 2639 | 2652 | | C-35, 0.25 lb/sk C-41P | | depth, circulate a minimum of one hole volume prior to | the 5th Sand, Intermediate casing = 0.352" wall thickne |
| 8.75° Vertical Rinestreat Sand 4224 4233 AIR 14.6pg Warren Sand 4224 4233 AIR 14.6pg Warren Sand 4224 4233 AIR 14.6pg TOC Angola Shale 4891 5062 Gass APPoz 4-0.5% fluid Loss Angola Shale 6150 6238 Rinestreat 6150 6238 6271 12.0pg antisetting TXP BTC Tully Limestone 6346 6537 TDC >= 200° Angola Shale 4891 5062 Gass APPoz 4-0.5% fluid Loss additive 4-0.0.3% fluid Bow Spring every fluid Loss additive 4-0.0.3% fluid Lo | | | Fifth Sand | 2748 | 2782 | | 30% Excess Yield = 1.10 | then every third joint to 100' feet from surface. | pumping cement. | Burst=3520 psl |
| Warren Sand 4224 4233 AIR 14.6ppg Rigid Bow Spring every Rigid Bow Spring every Java Shale 4891 5062 4891 5062 65/35 Class A/Poz. 474 4891 6744 4891 6760 65/35 Class A/Poz. 470.3% | | | Int. Casing | | 3032 | | | | | |
| 14.6ppg | | | Warren Sand | 4224 | 4233 | Ç | | Rigid Bow Spring every | | |
| Angola Shale 5119 5744 6160 Rhinestreet 5744 6160 Cashaqua 6150 6238 Find Loss HPoz H-0.5% fluid Loss rathorto-re-lo-6% class of 12.0pg- antisetting TXP BTC Burkett 6326 6346 TXP BTC Burkett 6326 6346 HCP-110 Burkett 6326 6346 TXP BTC BURKET 6346 BURKET 6346 TXP BTC BURKET 6346 BURKET 6346 | 8.75" Vertical | | Java Shale | 4891 | 5062 | AIK | 14.6ppg | TOC TOC | | |
| Shinestreet 5744 6160 | | | Angola Shale | 5119 | 5744 | | 65/35 Class A/Poz | | | |
| Cashaqua Cashaqua 6150 6238 carrota cathacta cathact | | | Rhinestreet | 5744 | 6160 | | additive, +/-0.3% | | | |
| 5-1/2* Middlesex 6238 6271 12.0pg- antiboari, +1-0.1% antiboari, +1-0.1% antiboari, +1-0.1% least Knot must on antisetting antisetting 20# HCP-110 West River 6326 6346 10.% Excess SOBM Rigid Bow Spring every point to KOP circulate a minimum of one point to KOP TVP BTC Burkett 6373 6486 6537 12.0pga- SOBM TCC >= 200° above 9,625* shoe Above 9,625* shoe TD 15643 6523 12.0pga- SOBM | | | Cashaqua | 6150 | 6238 | | retarder, +/-0.6% | | Once at TD, circulate at max | Production casing = 0.361 |
| CP-10 West River 6271 6326 12.5ppg antisettling PicP-110 Purkett 6326 6346 5373 Fig. | | 5-1/2" | Middlesex | 6238 | 6271 | 12.0ppq- | antifoam, +/- 0.1% | | least 6x bottoms up. Once | wall thickness |
| TXP BTC Burkett 6326 6346 SOBMI 10% Excess Rigid Bow Spring every point to KOP Carculate a minimum of other prior to Mole volume prior to Prior to KOP Hamilton 6373 6486 6537 TOC >= 200° Adminimum of the prior to KOP Pumping cement. TD Marcellus 6486 6537 12.0ppg above 9,625° shoe Accession | 8.75" Curve | 20# HCP-110 | West River | 6271 | 6326 | 12.5ppg | antisettling | | on bottom with casing. | Note: Actual centralizer |
| Tully Limestone 6346 6373 Yeald=1.27 Rigid bow Spring every joint to KOP pumping cement. Hamilton 6373 6486 TOC >= 200° above 9,625° shoe | | TXP BTC | Burkett | 6326 | 6346 | SCBM | 10% Excess | 4 | | schedules may be change |
| Hamilton 6373 6486 TOC>= 200° Marcellus 6486 6537 above 9,625" shoe TD 15643 6523 12.5ppg Conondaga 6537 | | | Tulk Limetone | 6346 | 6373 | | Yield=1.27 | Rigid Bow Spring every | | due to hale conditions |
| Marcellus 6486 6537 12.0ppg- TD 15643 6523 12.5ppg SOBM 6537 | | | Hamilton | 6373 | 6486 | | 1005 == 2001 | joint to KOP | | |
| TD 15643 6523 Onondaga 6537 | | | Marcellus | 6486 | 6537 | | above 9,625" shoe | | | |
| Onondaga 6537 | 8.75" - 8.5" | | TD. | 15643 | 6523 | 12.0ppg- 12.5ppg | | | | |
| | 10000 | | | | | SOBM | | | | |
| | A DOCUMENT OF THE PARTY OF THE | | Onondaga | 6537 | | | | | | |
| | LP @ 6523' TVD / | | 8.75 / 8.5 | 5 Hole - C. | 8.75 / 8.5 Hole - Cemented Long String 5-1/2" 20# HCP-110 TXP BTC | ng String BTC | | +/-784 | +/-7843' ft Lateral | TD @ +/-6523' TVD +/-15643' MD |

51-01822

| | Fresh Water Protetcion String: | Cement Additives | |
|----------------------------|--------------------------------|---------------------------------|---------------|
| llied Material Name | Additive (Material) Type | Additive (Material) Description | CAS# |
| CAC (Class A Common) | Base Cement | Grey powder | 65997-15-1 |
| | | | 10043-52-4 |
| | actual control | White flake | 7447-40-7 |
| -A-100 | Accelerator | 200 | 7732-18-5 |
| | | | 7647-14-5 |
| LC-CPF (Cellophane Flakes) | Lost Circulation Aid | White and colored flake | Non-Hazardous |
| | | | |

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

4705101822

FLUIDS/ CUTTINGS DISPOSAL & RECLAMATION PLAN

| Operator Name_ Noble Energy | , Inc. | | OP Code 494501907 | |
|--|--|--|--|--|
| Watershed (HUC 10)_Wheeli | ing Creek (undefined) | Quadrangle | /lajorsville | |
| Elevation 1158.0' | County_051 - Marsh | nall | District_ Webster | |
| Will a pit be used? Yes | han 5,000 bbls of water to compl No lanticipated pit waste: closed | | |]_ |
| | be used in the pit? Yes | A STATE OF THE PARTY OF THE PAR | , what ml.? | |
| Proposed Disposal Me | ethod For Treated Pit Wastes: | | | |
| Und Reu Off | d Application lerground Injection (UIC Permit se (at API Number_at next anticip Site Disposal (Supply form WW er (Explain_ | pated well | | |
| Will closed loop system be use | d? If so, describe: yes | | | |
| Drilling medium anticipated fo | or this well (vertical and horizonta | al)? Air, freshwater, | oil based, etc. Air/water based mud through intermed | diate string then |
| | e? Synthetic, petroleum, etc.Synt | | | |
| | medium? Please see attached s | | | |
| | ? Leave in pit, landfill, removed | | | |
| | | | e, sawdust) | |
| | me/permit number? please see a | | | |
| on August 1, 2005, by the Offi provisions of the permit are en law or regulation can lead to en I certify under penals application form and all attac obtaining the information, I be | ce of Oil and Gas of the West Vin inforceable by law. Violations of inforcement action. ty of law that I have personally chments thereto and that, based | rginia Department of f any term or condition examined and am d on my inquiry of rue, accurate, and c | | derstand that to ther applical abmitted on the responsible are significa |
| Company Official Signature | Jan | | My Comm. Exp. 9-19-23 | ~~~~ |
| Company Official (Typed Nar | | | Meston WV 26452 Dotores J Swiger Dotores J Swiger | |
| Company Official Title Regu | ulatory Analyst I | 0 | Official Seal Official Seal | |
| Subscribed and sworn before n | ne this day of | fanuary | Notary Publice of Oil & 2 2 2015 | Gas |
| My commission expires 09/19 | 12023 | | | U-7/UU/ZU |

04/03/2015

| s/acre | |
|--|--|
| | |
| | |
| | |
| cre | |
| l Mixtures | |
| Per | manent |
| Seed Type | lbs/acre |
| Tall Fescue | 40 |
| Ladino Clover | 5 |
| lication (unless engineered plans | including this info have be |
| / Comment of the comm | |
| & S during operation. | |
| | |
| | |
| | Received |
| | Received Office of Oil & Ga JAN 2 2 2015 |
| | Seed Type Tall Fescue |

) No

) Yes

Field Reviewed?

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 # PAD05087072 / 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 Received
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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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Office of Oil & Gas

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Site Safety Plan Noble Energy, Inc. SHL 27 Well Pad

EHS

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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