

### 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

February 04, 2015

## WELL WORK PERMIT Horizontal 6A Well

This permit, API Well Number: 47-6101691, issued to NORTHEAST NATURAL ENERGY LLC, is evidence of permission granted to perform the specified well work at the location described on the attached pages and located on the attached plat, subject to the provisions of Chapter 22 of the West Virginia Code of 1931, as amended, and all rules and regulations promulgated thereunder, and to all conditions and provisions outlined in the pages attached hereto. Notification shall be given by the operator to the Oil and Gas Inspector at least 24 hours prior to the construction of roads, locations, and/or pits for any permitted work. In addition, the well operator shall notify the same inspector 24 hours before any actual well work is commenced and prior to running and cementing casing. Spills or emergency discharges must be promptly reported by the operator to 1-800-642-3074 and to the Oil and Gas inspector.

Please be advised that form WR-35, Well Operators Report of Well Work is to be submitted to this office within 90 days completion of permitted well work, as should form WR-34 Discharge Monitoring Report within 30 days of discharge of pits, if applicable. Failure to abide by all statutory and regulatory provisions governing all duties and operations hereunder may result in suspension or revocation of this permit and, in addition, may result in civil and/or criminal penalties being imposed upon the operators.

In addition to the applicable requirements of this permit, and the statutes and rules governing oil and gas activity in WV, this permit may contain specific conditions which must be followed. Permit conditions are attached to this cover letter.

Per 35CSR-4-5.2.g this permit will expire in two (2) years from the issue date unless permitted well work is commenced. If there are any questions, please feel free to contact me at (304) 926-0499 ext. 1654.

James Martin

Chief

Operator's Well No: BOGGESS 9H

Farm Name: BOGGESS, BLAKE R. & H. PREST

API Well Number: 47-6101691

Permit Type: Horizontal 6A Well

Date Issued: 02/04/2015

API Number: 4706101691

# **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.



#### west virginia department of environmental protection

Oil and Gas Conservation Commission 601 57<sup>th</sup> Street, SE Charleston, WV 25304 (304)926-0499, Ext 1656 Earl Ray Tomblin, Governor Randy C. Huffman, Cabinet Secretary dep.wv.org

January 15, 2015

Department of Environmental Protection Office of Oil and Gas Charleston, WV 25304

RE: Application for Deep Well Permit - API #47-061-01691

COMPANY: Northeast Natural Energy LLC

FARM: Blake Boggess – Boggess #9H

COUNTY: Monongalia DISTRICT: Clay QUAD: Osage

The deep well review of the application for the above company is <u>APPROVED - HELDERBERG</u> <u>FOR MARCELLUS COMPLETION</u>. If operator wishes to drill deeper than the HELDERBERG, additional approval must be obtained from the OGCC.

The applicant has complied with the provision of Chapter 22C-9, of the Code of West Virginia, nineteen hundred and thirty-one (1931), as amended, Oil and Gas Conservation Commission as follows:

- Provided a certified copy of duly acknowledged and recorded consent and easement form from all surface owners; yes
- Provided a tabulation of all deep wells within one mile of the proposed location, including the API number of all deep wells, well name, and the name and address of the operator; none
- 3. Provided a plat showing that the proposed location is a distance of <u>492</u> feet from the nearest lease line or unit boundary and showing the following wells drilled to or capable of producing from the objective formation within 3,000 feet of the proposed location.

Sincerely,

Cindy Raines Executive Assistant

Cindy Raines

To avoid enforcement action and per 39CSR1.4.6 and 4.10 filing of wells logs and directional surveys are due within 90 days of completion of a deep well.

WW-6B (9/13)

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

|  |                          |   |                   | 3          | 256             |
|--|--------------------------|---|-------------------|------------|-----------------|
| ) Well Operator: Northeast N   | atural Energy LLC        | 494498281                               | Monongalia        | Clay       | Blacksville     |
| The state of the s |                          | Operator ID                             | County            | District   | Quadrangle      |
| 2) Operator's Well Number: Bo  | ggess 9H                 | Well Pa                                 | d Name: Bogge     | ess        |                 |
| 3) Farm Name/Surface Owner:  | Blake R. & H. Preston Bo | oggess Public Ro                        | ad Access: Mas    | on Dixon H | wy (State Rt 7) |
| Elevation, current ground:   | 1296' Ele                | vation, proposed                        | post-construction | on: 1268'  |                 |
| i) Well Type (a) Gas   | Oil                      | Und                                     | erground Storag   | e          |                 |
| Other  |                          |   |                   |            |                 |
| (b)If Gas Sha  | allow                    | Deep                                    |                   |            |                 |
| Hor  | rizontal =               |   | 141               | ox 9/2     | HOUN            |
| ) Existing Pad: Yes or No No   |                          |   | Po                | 1 1/0      | 1/201           |
| ) Proposed Target Formation(s  |                          | oated Thickness                         |                   |            |                 |
| Marcellus ; 7,993' ; 103' , 3,470 j  | psi                      |   |                   |            |                 |
| ) Proposed Total Vertical Dept   | h: Pilot: 8,400' ; Ho    | orizontal: 7,993'                       |                   |            |                 |
| ) Formation at Total Vertical D  | epth: Pilot: Helder      | burg ; Horizontal: I                    | Marcellus         |            |                 |
| 0) Proposed Total Measured De  | epth: 16,505'            |   |                   |            |                 |
| 1) Proposed Horizontal Leg Le  | ngth: 7,066'             |   |                   |            |                 |
| 2) Approximate Fresh Water St  | trata Depths:            | 65', 1,100'                             |                   |            |                 |
| 3) Method to Determine Fresh   | Water Depths: Dr         | iller's Log from Off                    | set Wells         |            |                 |
| 4) Approximate Saltwater Dept  | ths: 1,400', 2,250'      |   |                   |            |                 |
| 5) Approximate Coal Seam Dep   | pths: 600', 950'         |   |                   |            |                 |
| 6) Approximate Depth to Possi  | ble Void (coal min       | e, karst, other):                       | N/A               |            |                 |
|  |                          | e v v v v v v v v v v v v v v v v v v v |                   |            |                 |
| <ol><li>Does Proposed well location<br/>irectly overlying or adjacent to</li></ol>   |                          | Yes                                     | No                | 1          |                 |
|  |                          |   |                   |            |                 |
| (a) If Yes, provide Mine Info:   | Name:                    |   |                   |            |                 |
| (a) If Yes, provide Mine Info:   | Name:                    |   |                   |            |                 |
| (a) If Yes, provide Mine Info:   |                          |   |                   |            | OFILIER         |

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### CASING AND TUBING PROGRAM

| ТҮРЕ         | Size    | New<br>or<br>Used | Grade | Weight per ft.<br>(lb/ft) | FOOTAGE: For Drilling | INTERVALS:<br>Left in Well | CEMENT:<br>Fill-up (Cu.<br>Ft.) |
|--------------|---------|-------------------|-------|---------------------------|-----------------------|----------------------------|---------------------------------|
| Conductor    | 24"     | New               | STD   | 94.71                     | 60'                   | 60'                        | GTS                             |
| Fresh Water  | 13 3/8" | New               | J-55  | 54.5                      | 1,265'                | 1,250'                     | CTS                             |
| Coal         |         |                   |       |                           |                       |                            |                                 |
| Intermediate | 9 5/8"  | New               | J-55  | 40                        | 2,430'                | 2,400'                     | CTS                             |
| Production   | 5 1/2"  | New               | P-110 | 20                        | 16,505'               | 16,475'                    | 3,605 cu. ft.                   |
| Tubing       | 2 3/8"  | New               | J-55  | 4.7                       |                       | 8,750'                     | NA                              |
| Liners       |         |                   |       |                           |                       |                            |                                 |

\*Northeast Natural Energy LLC will not set Freshwater Casing beyond elevation without the prior approval from the WV DEP Office of Oil and Gas Management.

| TYPE         | Size    | Wellbore<br>Diameter | Wall<br>Thickness | Burst Pressure | Cement Type | Cement Yield<br>(cu. ft./k) |
|--------------|---------|----------------------|-------------------|----------------|-------------|-----------------------------|
| Conductor    | 24"     | 24"                  | .25               | 2,200          | Grout       | NA                          |
| Fresh Water  | 13 3/8" | 17 1/2"              | .38"              | 2,760          | Class A     | 1.23                        |
| Coal         |         |                      |                   |                |             |                             |
| Intermediate | 9 5/8"  | 12 1/4"              | .395"             | 3,950          | Class A     | 1.3                         |
| Production   | 5 1/2"  | 8 3/4"               | .361"             | 12,530         | 50:50 Poz   | 1.21                        |
| Tubing       | 2 3/8"  | NA                   | .190"             | 7,700          | NA          | NA                          |
| Liners       |         |                      |                   |                |             |                             |

#### **PACKERS**

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

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Office of Oil and Gas

DET 0 8 HM

| 19) Describe proposed well work, including the drilling and plugging back of any pilot hole:   |
|--|
| Drilling and completion of a horizontal Marcellus well. The well will be drilled on air to an approximate depth of 7,100' TVD/MD. A pilot hole will then continue to be drilled vertically on fluid to an approximate depth of ~8,400' TVD/MD. After logging the section, the well will be plugged back with solid cement to ~7,100'. Once the cement plug has cured, the well will be horizontally drilled on fluid from KOP to approximately 7,993' TVD / 16,505' MD along a 325 degree azimuth.   |
|  |
| 20) Describe fracturing/stimulating methods in detail, including anticipated max pressure and max rate:  |
| Multi-stage / high-rate slickwater fracture treatment using various size sands as proppant. First stage will be initiated via pressurization against a burst disc ran in the production casing string or perforated with coiled tubing. Subsequent stages will be perforated with pumped down guns ran on wireline. Individual stages will be isolated with composite frac plugs. Maximum pump rate during any stage will be 110 BPM with a maximum allowable surface pressure of 9,500 PSI. Composite bridge plugs will be set at the end of the last stage to isolate the treated formation. |
|  |
| 21) Total Area to be disturbed, including roads, stockpile area, pits, etc., (acres): 20.12  |
| 22) Area to be disturbed for well pad only, less access road (acres): 9.98   |
| 23) Describe centralizer placement for each casing string:   |
| Surface and intermediate casing strings will have bow spring centralizers placed every third joint (~120') from shoe joint to surface. Production casing will have rigid body centralizers placed at a minimum of every fourth joint (~160') from TD to surface.   |
| 24) Describe all cement additives associated with each cement type:  |
| Surface string cement will be a Class A + Max 3% bwoc Calclum Chloride Fresh Water blend. Intermediate string cement will be a Class A Cement + Max 3% bwoc Calcium Chloride + Fresh Water. Production string cement will be (50:50) Poz (Fly Ash):Type I Cement with a gas migration additive.  |
| 25) Proposed borehole conditioning procedures:   |
| Surface string will use a 25.0 bbls Gel Pill + LCM + 25 lbs Cello Flake + 20 lbs/bbl Bentonite @ 8.4 ppg & 10 bbls fresh water spacer prior to cement. Intermediate string will use a 25.0 bbls Gel Pill + LCM + 25 lbs Cello Flake + 20 lbs/bbl Bentonite @ 8.4 ppg & 10 bbls fresh water spacer prior to cement. Production string will use a 50.0 bbls SealBond 25 + 1 gal/bbl US-40 + 275 lbs/bbl Barite + 1 gal/bbl SS-2 Spacer @ 13.5 ppg prior to cement.   |
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| Office of Oil and Gas  |
| OCT <b>0 8</b> 2014  |
| *Note: Attach additional sheets as needed.   |

WV Deparimental Protection 02/06/2015

Job Number: Elevation (To MSL): 1268.00 ft Company: Northeast Natural Energy RKB: 18.00 ft Lease/Well: Boggess 9H Projection System: US State Plane 1983 Location: Boggess Projection Group: West Virginia Northern Zone Projection Datum: GRS80 Rig Name: Pioneer 63 Magnetic Declination: -8.96 State/County: WV/ Mon Country: US Grid Convergence: -0.37791 W Date: Monday, September 22, 2014 API Number: -3000 -2000 -1000 -5000 -4000 24 1/2" CSG., 60.00 MD 4000 5000 6000 7000 Boggess 9H 7000 1000 2000 3000 6000 1000 13 3/8" CSG., 1250.00 MD 5000 2000 True Vertical Depth South - North 9 5/8" CSG., 2400.00 MD 4000 3000 3000 4000 2000 1000 5000 Boggess 9H -2000 -5000 -4000 -3000 -1000 Environmental 6000 Office of West - East MD TVD Tully Hamilton KOP 7,100 7,100 LP 9,443 7,993 Upper Marcellus 7000 TD 16,505 7,993 Lower Marcellus Pilot 8,400 Onondaga 8,400 OF Oriskany Boggess 9H Helderburg End Helderburg Boggess 9H pilot on Vertical Section (1000 Ft/Div) VSP: 318.22°



0

1000

1000

7,741

7,805

7,912

7,957

8,015

8,025

8,250

8,400

2000

2000

| 4  | 7  | 0   | 6   | 1 | 0   | 1    | 6 | 9 | 1 |
|----|----|-----|-----|---|-----|------|---|---|---|
| 10 | 11 | 450 | 401 |   | 3.7 | - 11 | - | - |   |

API Number 47 - \_\_\_\_ - \_\_ Boggess 9H

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

#### FLUIDS/ CUTTINGS DISPOSAL & RECLAMATION PLAN

| Operator Name_Northeast Natural En   | ergy LLC   | OP Code  | 98281   |
|--|--|--|---|
| Watershed (HUC 10) Dunkard Cre   | eek  | QuadrangleOsage, WV  |   |
| Elevation 1,268  | County Monongalia  | District_Clay  |   |
| Do you anticipate using more than :  | 5,000 bbls of water to complet   | e the proposed well work? Yes_   | No  |
| If so, please describe antic   |  |  |   |
| Will a synthetic liner be us   | sed in the pit? Yes  | No / If so, what ml.?  |   |
| Proposed Disposal Method   | I For Treated Pit Wastes:  |  |   |
| Land Ap  |  |  |   |
|  | ound Injection (UIC Permit Nat API Number unknown at this tir  |  |   |
|  | Disposal (Supply form WW-9   |  |   |
| Will closed loop system be used? If  | f so, describe; Yes - See Atlach   | ment A   |   |
| Orilling medium anticipated for this   | well (vertical and horizontal)   | ? Air, freshwater, oil based, etc. A   | r - Vertical/Oil Based-Curve & Horizontal   |
|  | ynthetic, petroleum, etc. Synthe   |  |   |
| Additives to be used in drilling med   |  |  | iers Mica I CM. Water Loss Agents   |
|  |  |  |   |
| Orill cuttings disposal method? Lea  |  |  | illient A   |
|  | lidify what medium will be us  |  |   |
| -Landfill or offsite name/pe   | ermit number?See Attachment A  |  |   |
| on August 1, 2005, by the Office of provisions of the permit are enforce aw or regulation can lead to enforce a certify under penalty of application form and all attachmentationing the information, I believ penalties for submitting false information. | Oil and Gas of the West Virg<br>eable by law. Violations of a<br>ement action.<br>law that I have personally e<br>nts thereto and that, based of<br>that the information is true | examined and am familiar with the general standard and am familiar with the condition of those individuals, accurate, and complete. I ame of fine or imprisonment. | Protection. I understand that the all permit and/or other applicable information submitted on this als immediately responsible for aware that there are significant |
| Company Official Signature   | Jollio Madlay  |  |   |
| Company Official (Typed Name)  |  | ()   | 00108700  |
| Company Official Title Regulatory  | Coordinator  |  | WV Department of  |
| Subscribed and sworn before the third  | day of 0   | tober 20 1   | OFFICIAL SEAL Andrew J. Travis Notary Public State of West Virginia My Commission Expire April 11, 2017 6240 Mid Atlantic Driv Morganiewn W/773 50                  |

Form WW-9

Operator's Well No. Boggess 9H

| 기계는 아이들이 살으면서 어디에 가지 되었다. 전에서 경기가 되었다는 그 이 제 되는 것이 되고 있다면 하지 않는 것이다. 그렇게 되었다.                   | sturbed 22 Prevegetation pl | TBD                                   |
|---|-----------------------------|---------------------------------------|
|   | or to correct to pH 6.0     |                                       |
| Fertilizer type10-20-20   |                             |                                       |
| Fertilizer amount 500   | lbs/acre                    |                                       |
| Mulch 2-3   | Tons/acre                   |                                       |
|   | C. AMina                    |                                       |
| 2-2-2-2-2-2   | Seed Mixtures               |                                       |
| Temporary   | Perma                       |                                       |
| Seed Type lbs/acre Orchard Grass 8  | Seed Type<br>Orchard Grass  | lbs/acre<br>8                         |
| Red Clover 2  | Red Clover                  | 2                                     |
| Perennial Rye 8   | Perennial Rye               | 8                                     |
|   | Timothy 5, Annual           | Rye 10                                |
| provided)<br>Photocopied section of involved 7.5' topograpl                                     | hic sheet.                  |                                       |
| Photocopied section of involved 7.5' topograph  | hic sheet.                  |                                       |
|   | hic sheet.                  |                                       |
| Photocopied section of involved 7.5' topograph  | n to                        | See plan                              |
| Photocopied section of involved 7.5' topograph  Plan Approved by:                               | n h                         | See plan                              |
| Photocopied section of involved 7.5' topograph  Plan Approved by:   Comments:   Cenutary 15 100 | n to                        | See plan                              |
| Photocopied section of involved 7.5' topograph  Plan Approved by:   Comments:   Cenutary 15 100 | n to                        | See plan                              |
| Photocopied section of involved 7.5' topograph  Plan Approved by:   Comments:   Cenutary 15 100 | n to                        | See plan                              |
| Photocopied section of involved 7.5' topograph  Plan Approved by:   Comments:   Cenutary 15 100 | n to                        | See plan                              |
| Photocopied section of involved 7.5' topograph  Plan Approved by:   Comments:   Cenutary 15 100 | o't- From access road.      | See plan RECEIVER                     |
| Photocopied section of involved 7.5' topograph  Plan Approved by:   Comments:   Cenutary 15 100 | o't- From access road.      | See plan  RECEIVED  Office of Oil and |

### Attachment A to WW-9

Northeast Natural Energy LLC ("NNE") plans to utilize a closed loop process for its drilling of the Boggess 9H well. Return flow from the well will be separated into its liquid and solid form. Liquids will be held in steel tanks and reused in the drilling and completion process or disposed of at an approved facility listed below. Solids removed from the stream will be diverted to steel half-round tanks where they will be solidified on site and taken to disposal as they are accumulated.

Boggess 9H Drill Cuttings will be taken to disposal at one or more of the following disposal/approved waste facilities, unless listed facilities are no longer approved to accept waste at time of disposal:

- Westmoreland Landfill (Tervita) Belle Vernon, PA (Permit # 100277)
- Meadowfill Landfill (Waste Management) Bridgeport, WV (Permit # SWF 103298)
- Max Environmental Yukon, PA (PAD004835146 and 301071)
- Max Environmental Bulger, PA (PAD059087072 and 301359)
- Chestnut Valley Landfill (Advanced Disposal) Export, PA (Permit # 101421)

NNE plans to reuse and recycle all flowback fluid and/or reach out to other operators in the area who may be able to reuse and recycle such fluid. However, in the event that reuse is not obtainable the fluid will be disposed of at one, or multiple, of the following disposal/approved waste facilities unless listed facilities are no longer approved to accept waste at time of disposal:

- Fairmont Brine Processing (WV NPDES #0116408)
- Green Hunter M. E. Elder 1 Disposal Well (Permit # 47-085-05151)
- Green Hunter Mason 1 Disposal Well (Permit #47-085-09721)
- Green Hunter Warren Disposal Well (Permit #34-121-2-3995)
- Green Hunter Travis Unit Disposal Well (Permit #34-121-2-4086)
- Viking Energy Corporation 20320 Disposal Well (Permit#47-039-02210)
- Ohio Oil Gathering Killbuck Disposal Well (Permit #34-075-24527)
- Ohio Oil Gathering Moran Disposal Well (Permit #34-089-24792)
- Ohio Oil Gathering Bells Run Disposal Well (Permit #34-167-29395)
- Ohio Oil Gathering Long Run Disposal Well (Permit #34-167-29658)
- Ohio Oil Gathering Newell Run Disposal Well (Permit #34-167-29685)

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   Ohio Oil Gathering Newell Run Disposal Well (Permit #34-167-29685)

   Ohio Oil Gathering Newell
- Appalachian Oil Purchaser Greens Run Disposal Well (Permit #2D0732540)
- Appalachian Oil Purchaser BW#4 Disposal Well (Permit # 200732523) 001 8 8 4 14



MJK 9/25/2014

# Boggess 9H SITE SAFETY PLAN

September 22, 2014

RECEIVED
Office of Oil and Gas

DCT 0.6 7011

WV Department of Environmental Projection 02/06/2015

4706101691



# Boggess 9H SITE SAFETY PLAN

January 29, 2015

Remod (29/2015)

