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

June 17, 2015

WELL WORK PERMIT

Horizontal 6A Well

This permit, API Well Number: 47-6101710, 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: CAMPBELL 1H
Farm Name: CAMPBELL, ELLEN F.
API Well Number: 47-6101710
Permit Type: Horizontal 6A Well
Date Issued: 06/17/2015

API Number: 6101710

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.

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601 57th Street
Charleston, WV 25304
(304) 926-0450 fax (304) 926-0452

Earl Ray Tomblin, Governor
Randy C. Huffman, Cabinet Secretary
www.dep.wv.gov

ORDER
ISSUED UNDER
WEST VIRGINIA CODE, CHAPTER 22, ARTICLE 6A

TO: Northeast Natural Energy, LLC
707 Virginia Street East
Suite 1200
Charleston, WV 25301

DATE: July 24, 2014
ORDER NO.: 2014-W-4

INTRODUCTION

This Order (hereinafter "Order") is issued by the Office of Oil and Gas (hereinafter "OOG"), by and through its Chief, pursuant to the authority of W. Va. Code §§ 22-1-1, 22-6-1 and 22-6A-1 *et seq.* to Northeast Natural Energy, LLC (hereinafter "Northeast Natural Energy" or "Operator"), collectively the "Parties."

FINDINGS OF FACT

In support of this Order, the Chief hereby finds the following:

1. OOG, an office within the West Virginia Department of Environmental Protection, is the agency with the duty and authority to execute and enforce W. Va. Code §22-6-1 and §22-6A-1 *et seq.*, and the rules and regulations promulgated thereunder.

2. Northeast Natural Energy is a "person" as defined by W. Va. Code §22-6-1(n), with a corporate address as 707 Virginia Street East, Suite 1200, Charleston, WV 25301.

3. On April 25, 2014, Northeast Natural Energy submitted permit applications for gas wells identified as API numbers 47-061-01677, and 47-061-01678, located on the Campbell Pad in Clay District, Monongalia County, West Virginia.

4. On April 25, 2014 Northeast Natural Energy requested a waiver for Wetland #1, outlined in Exhibit 1, from well location restriction requirements in W. Va. Code §22-6A-12(b) for gas well permit applications identified as API numbers: 47-061-01677 and 47-061-01678, located on the Campbell Pad in Clay District, Monongalia County, West Virginia.

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CONCLUSIONS OF LAW

1. West Virginia Code §22-1-6(d) requires, in part, that "[i]n addition to other powers, duties and responsibilities granted and assigned to the secretary by this chapter, the secretary is authorized and empowered to...(3) Enter private lands to make surveys and inspections for environmental protection purposes; to investigate for violations of statutes or rules which the Office of Oil and Gas is charged with enforcing; to serve and execute warrants and processes; to make arrests; issue orders, which for the purposes of this chapter include consent agreements; and to otherwise enforce the statutes or rules which the Office of Oil and Gas is charged with enforcing."

2. West Virginia Code §22-6A-2(a)(6) requires, in part, that "Concomitant with the broad powers to condition the issuance of well work permits, the secretary should also have broad authority to waive certain minimum requirements of this article when, in his or her discretion, such waiver is appropriate: *Provided*, That the secretary shall submit a written report of the number of waivers granted to the Legislature commencing January 1, 2013, and each year thereafter."

3. West Virginia Code §22-6A-12(b) requires, in part, that "[n]o well pad may be prepared or well drilled within one hundred feet measured horizontally from any perennial stream, natural or artificial lake, pond or reservoir, or a wetland, or within three hundred feet of a naturally reproducing trout stream. No well pad may be located within one thousand feet of a surface or ground water intake of a public water supply. The distance from the public water supply as identified by the Office of Oil and Gas shall be measured as follows: (1) For a surface water intake on a lake or reservoir, the distance shall be measured from the boundary of the lake or reservoir. (2) For a surface water intake on a flowing stream, the distance shall be measured from a semicircular radius extending upstream of the surface water intake. (3) For a groundwater source, the distance shall be measured from the wellhead or spring. The Office of Oil and Gas may, in its discretion, waive these distance restrictions upon submission of a plan identifying sufficient measures, facilities or practices to be employed during well site construction, drilling and operations to protect the waters of the state. A waiver, if granted, shall impose any permit conditions as the secretary considers necessary."

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ORDER

Therefore, the Office of Oil and Gas grants Northeast Natural Energy, LLC a waiver for Wetland #1 from well location restriction requirements in W. Va. Code §22-6A-12(b) for gas well permit applications identified as API numbers 47-061-01677 and 47-061-01678, located on the Campbell Pad in Clay District, Monongalia County, West Virginia. The Office of Oil and Gas hereby **ORDERS** that Northeast Natural Energy, LLC shall meet the following site construction and operational requirements for the Campbell well pad:

a. A berm shall be constructed around the perimeter of the pad to contain any potential spills and storm water runoff. Berm is to be at least two feet (2') in height;

b. Orange safety fencing shall be installed on the project boundary to ensure no encroachment onto wetland area;

c. Filter/silt socks and erosion control blankets shall be installed on all slopes and down gradient locations of the pad and topsoil pile areas as erosion and sediment controlling BMPs;

d. Compost filter socks and super silt fences shall be installed along all slopes and down gradient locations of the pad adjacent to Wetland #1;

e. As stated by Northeast Natural Energy, a geotechnical inspector will be on site to insure the recommended construction techniques are followed as laid out in the completed geotechnical report.

f. Disturbed areas not used for operations shall be seeded and mulched per the seeding tables in the WVDEP-OOG Erosion and Sediment Control Manual;

g. Drilling muds shall be disposed of in a permitted landfill;

h. Waste generated by the flowback treatment systems shall be sent to offsite disposal at a permitted landfill;

i. Weekly site inspections shall be conducted to monitor and maintain the integrity of the BMP storm water controls;

j. Weekly storm water and spill prevention inspections shall be conducted focusing on storm water and spill prevention BMPs and maintenance of these BMPs;

k. Inspections of the storm water and spill prevention measures shall be conducted after any major storm event defined as a half inch (½") rain within any twenty-four (24) hour period;

l. Pad inspections shall be conducted no less than once a week to identify and mitigate potential deficiencies;

m. All records from inspections shall be maintained on site for the life of the project and be available upon request.

Thus ORDERED, the 24th day of July, 2014.

IN THE NAME OF THE STATE OF WEST VIRGINIA:

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

By _____
JAMES A. MARTIN, CHIEF

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4706101710

WW-6B
(9/13)

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

1) Well Operator:	Northeast Natural Energy LLC	494498281	Monongalia 061	Clay 03	Blacksville
		Operator ID	County	District	Quadrangle

2) Operator's Well Number: Campbell 1H Well Pad Name: Campbell

3) Farm Name/Surface Owner: Ellen F. Campbell Public Road Access: State Route 218 (Daybrook Road)

4) Elevation, current ground: 1,293.6' Elevation, proposed post-construction: 1,293.6'

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

6) Existing Pad: Yes or No Yes MJK 3/12/2015

7) Proposed Target Formation(s), Depth(s), Anticipated Thickness and Associated Pressure(s):
Marcellus ; 8,035' ; 103' , 3,545psi

8) Proposed Total Vertical Depth: 8,035'

9) Formation at Total Vertical Depth: Marcellus

10) Proposed Total Measured Depth: 17,586'

11) Proposed Horizontal Leg Length: 9,069'

12) Approximate Fresh Water Strata Depths: 50' , 1,137 '

13) Method to Determine Fresh Water Depths: Driller's Log from Offset Wells

14) Approximate Saltwater Depths: 1,521' , 2,363'

15) Approximate Coal Seam Depths: 316' , 1,135'

16) Approximate Depth to Possible Void (coal mine, karst, other): N/A

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: Adjacent Mine - Federal No. 2
Depth: 1,100'
Seam: Pittsburgh
Owner: Patriot Coal Corporation

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18) **CASING AND TUBING PROGRAM**

TYPE	Size	New or Used	Grade	Weight per ft. (lb/ft)	FOOTAGE: For Drilling	INTERVALS: Left in Well	CEMENT: Fill-up (Cu. Ft.)
Conductor	24"	New	NA	94.71	60'	60'	GTS
Fresh Water	13 3/8"	New	J-55	54.5	1,280'	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	17,586'	17,556'	4,097 Cu. Ft.
Tubing	2 3/8"	New	J-55	6.5	NA	8,500'	NA
Liners							

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

MJK 3/12/2015

TYPE	Size	Wellbore Diameter	Wall Thickness	Burst Pressure	Cement Type	Cement Yield (cu. ft./k)
Conductor	24"	30"	.375	415	4,500 psi 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	.217"	10,570	NA	NA
Liners						

PACKERS

Kind:			
Sizes:			
Depths Set:			

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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 7,000' TVD/MD. The well will then be horizontally drilled on a synthetic based mud from the KOP to approximately 8,035' TVD / 17,586' MD along a 323 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): NA - Existing Pad

22) Area to be disturbed for well pad only, less access road (acres): NA - Existing Pad

23) Describe centralizer placement for each casing string:

Surface and intermediate casing strings will have bow spring centralizers placed every third joint (~120') from the 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 Calcium 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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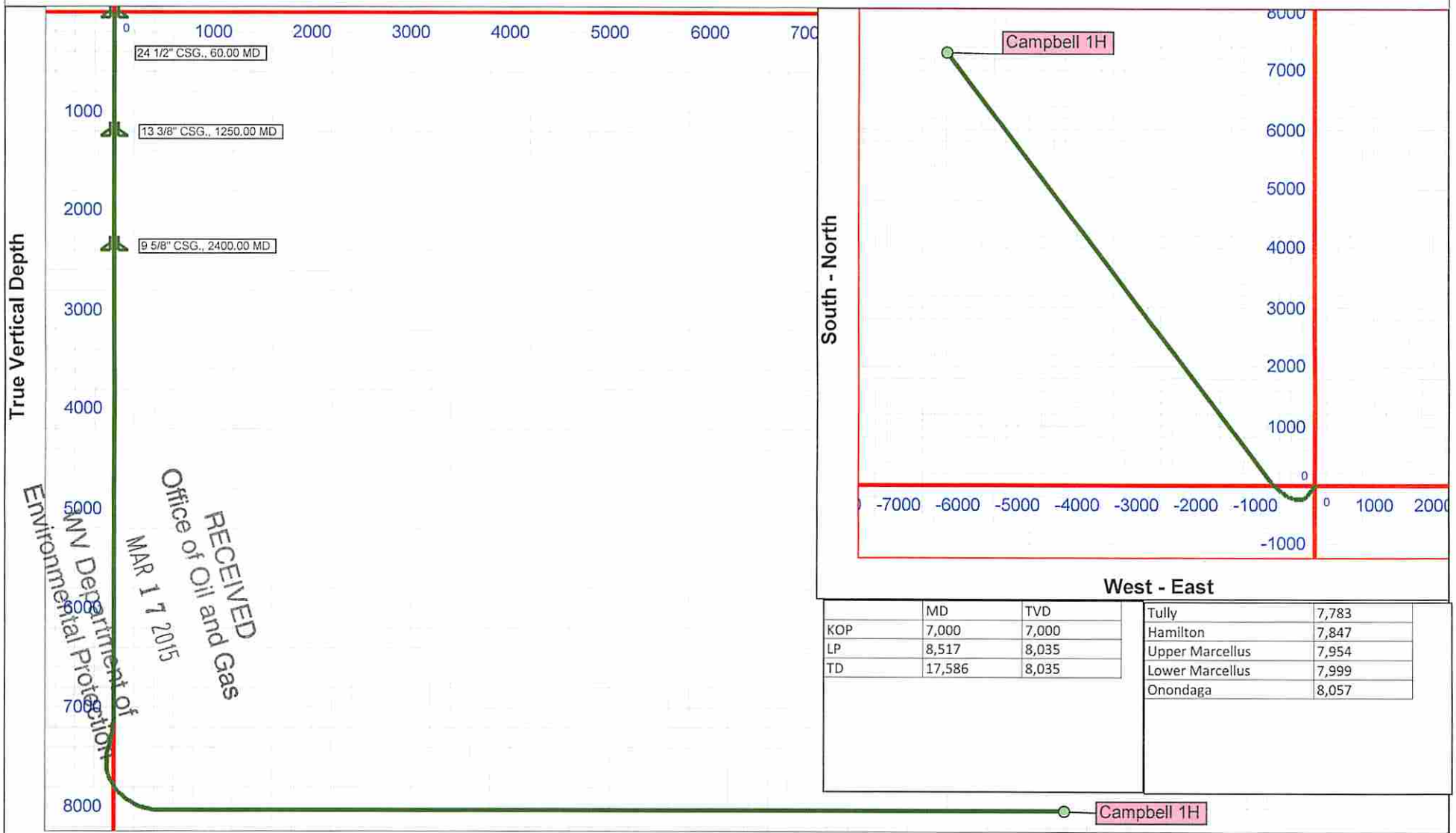
*Note: Attach additional sheets as needed.

Job Number:
Company: Northeast Natural Energy
Lease/Well: Campbell 1H
Location: Campbell
Rig Name: Pioneer 63
State/County: WV/ Mon
Country: US
API Number:

Elevation (To MSL): 1294.00 ft
RKB: 18.00 ft
Projection System: US State Plane 1983
Projection Group: West Virginia Northern Zone
Projection Datum: CLARKE 1866
Magnetic Declination: -8.89
Grid Convergence: -0.43613 W
Date: Monday, March 02, 2015



	MD	TVD
KOP	7,000	7,000
LP	8,517	8,035
TD	17,586	8,035

Tully	7,783
Hamilton	7,847
Upper Marcellus	7,954
Lower Marcellus	7,999
Onondaga	8,057

Vertical Section (1000 Ft/Div) VSP: 323.00°

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Northeast Natural Energy LLC Mine Contingency Plan

northeast
NATURAL ENERGY

On all wells drilled, Northeast Natural Energy LLC ("NNE") has contingency strategies in place should an unanticipated void or mine be encountered while drilling the surface section of the well. If encountered, any accumulated gases will be diverted a safe distance away from the drilling operations through the blooey line and/or flare.

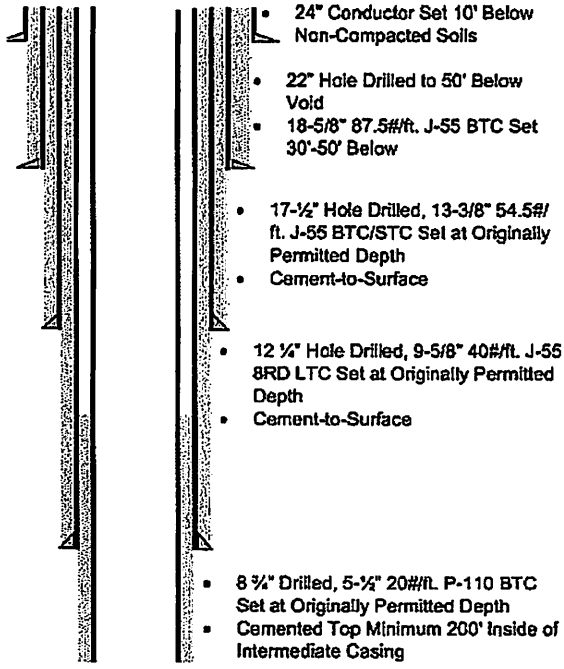
All casings programs submitted to the state incorporate the use of a 24" conductor over the previously used 20" that has long been the industry standard for a typical Marcellus design. The use of 24" conductor casing allows the use of a 22" bit to ream the surface hole, and drill 50' below the void to run a string of 18-5/8" 87.50#/ft J-55 through the section when needed.

The 18-5/8" would be set 30-50' below the void with cement baskets placed directly above and below. The section of pipe below the void would be cemented using the balance method with 100% excess. The section above the void would be cemented separately by using remedial top fill techniques and 30% excess.

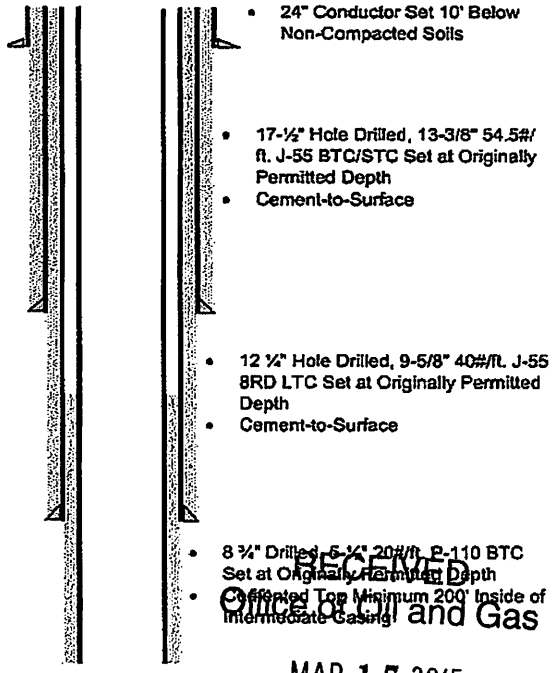
With the use of these string sizes and techniques, the surface and intermediate strings do not need to be altered. After a proper WOC time, the surface section of the well would continue to be drilled with a 17-1/2" bit and the 13-3/8" 54.50#/ft freshwater casing would be set at the originally permitted depth.

The diagram below visually shows the alternative casing plan should an unanticipated void be encountered.

Casing Schematic w/ Mine String



Casing Schematic w/o Mine String



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WW-9
(2/15)

API Number 47 - _____ - _____
Operator's Well No. Campbell 1H

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

FLUIDS/ CUTTINGS DISPOSAL & RECLAMATION PLAN

Operator Name Northeast Natural Energy LLC OP Code 494498281

Watershed (HUC 10) Dunkard Creek Quadrangle Blacksville, WV

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

Will a pit be used? Yes ☐ No ☑

If so, please describe anticipated pit waste: _____

Will a synthetic liner be used in the pit? Yes ☐ No ☐ If so, what ml.? _____

Proposed Disposal Method For Treated Pit Wastes:

_____ Land Application
_____ Underground Injection (UIC Permit Number _____)
■ Reuse (at API Number unknown at this time, TBD)
_____ Off Site Disposal (Supply form WW-9 for disposal location)
_____ Other (Explain _____

Will closed loop system be used? If so, describe: Yes - See Attachment A

Drilling medium anticipated for this well (vertical and horizontal)? Air, freshwater, oil based, etc. Air - Vertical/Oil Based - Curve & Horizontal

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

Additives to be used in drilling medium? Organophilic Clay Viscosifiers, Lime, Unsaturated Fatty Acids, CaCl, Barite, Emulsifiers, Mica LCM, Water Loss Agents

Drill cuttings disposal method? Leave in pit, landfill, removed offsite, etc. Removed Offsite - See Attachment A

-If left in pit and plan to solidify what medium will be used? (cement, lime, sawdust) _____

-Landfill or offsite name/permit number? See Attachment A

Permittee shall provide written notice to the Office of Oil and Gas of any load of drill cuttings or associated waste rejected at any West Virginia solid waste facility. The notice shall be provided within 24 hours of rejection and the permittee shall also disclose where it was properly disposed.

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 Hollie Medley

Company Official (Typed Name) Hollie Medley

Company Official Title Regulatory Coordinator

Subscribed and sworn before me this 12th day of March 20 15

Andrew J. Travis Notary Public

My commission expires April 11, 2017

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OFFICIAL SEAL
Notary Public
Andrew J. Travis
State of West Virginia
My Commission Expires
April 11, 2017
6240 Mid Atlantic Drive
Morgantown, WV 26508

4706101710

Form WW-9

Operator's Well No. Campbell 1H

Northeast Natural Energy LLC

Proposed Revegetation Treatment: Acres Disturbed 72.1 Prevegetation pH TBD

Lime 2 Tons/acre or to correct to pH 7

Fertilizer type 19-19-19

Fertilizer amount 200 lbs/acre

Mulch 2 Tons/acre

Seed Mixtures

Temporary		Permanent	
Seed Type	lbs/acre	Seed Type	lbs/acre
Orchard Grass	46	Orchard Grass	46
Red Clover	8	Red Clover	8
Tetraploid Perrennial Rye	16	Tetra Perrennial Rye	16
Timothy - 15 and Annual Rye - 15		Timothy - 15 and Annual Rye - 15	

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: Gaynor J Kutowski

Comments:

Title: Inspector Date: 3/12/2015

Field Reviewed? (X) Yes ( ) No

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Attachment A to WW-9

Northeast Natural Energy LLC ("NNE") plans to utilize a closed loop process for its drilling of the Campbell 1H 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.

Campbell 1H 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)
- Appalachian Oil Purchaser Greens Run Disposal Well (Permit #2D0732540)
- Appalachian Oil Purchaser BW#4 Disposal Well (Permit # 2D0732523)

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northeast
NATURAL ENERGY

Campbell 1H

SITE SAFETY PLAN

June 5, 2015

JSJK
6/9/2015

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JUN 9 2015

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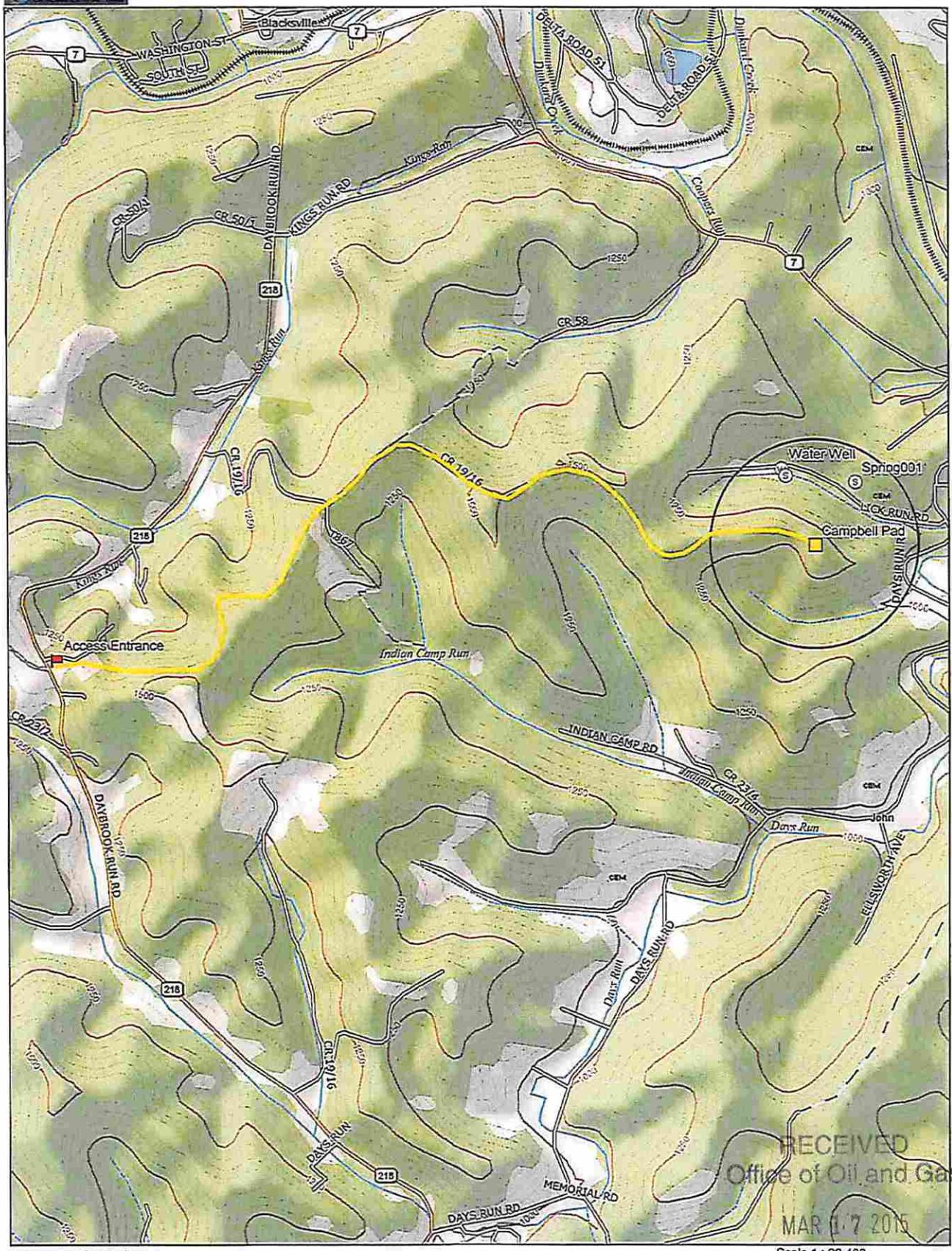
DeLORME XMap® 7



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TN
MN (8.3°W)

Scale 1 : 22,400
1" = 1,866.7 ft Data Zoom 18-2

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Water Sample Sources

Tax Map/Parcel	Surface Owner	Source Type	Lat/Long (NAD 83)
7-32	Anna M. Herron	Spring #1	39.702574, -80.185303
7-32	Anna M. Herron	Water Well	39.702809, -80.185472
7-31	Nimrod and Christine Dillie McCoy	Spring #2	39.702320, -80.181736

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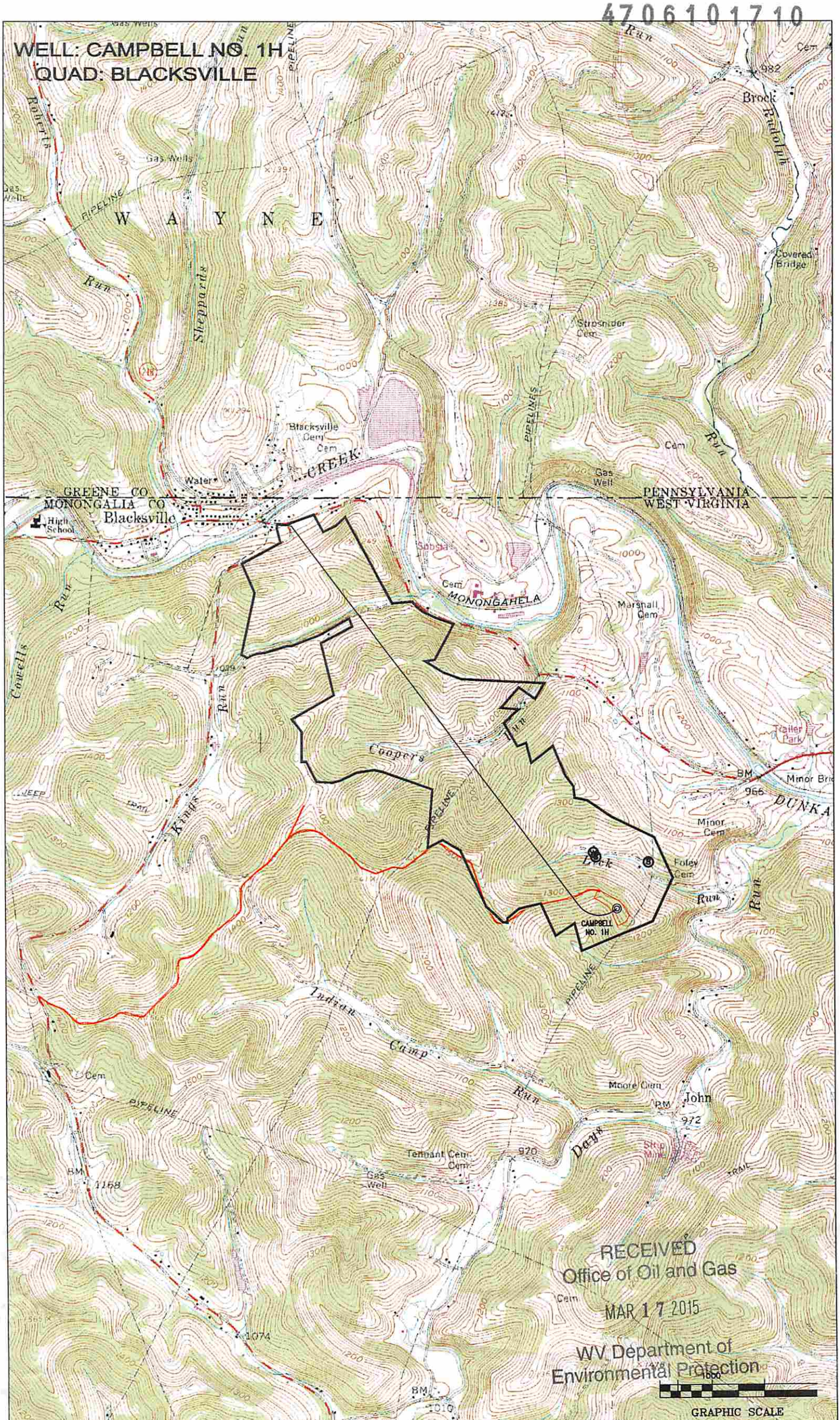
4706101710

WELL: CAMPBELL NO. 1H
QUAD: BLACKSVILLE



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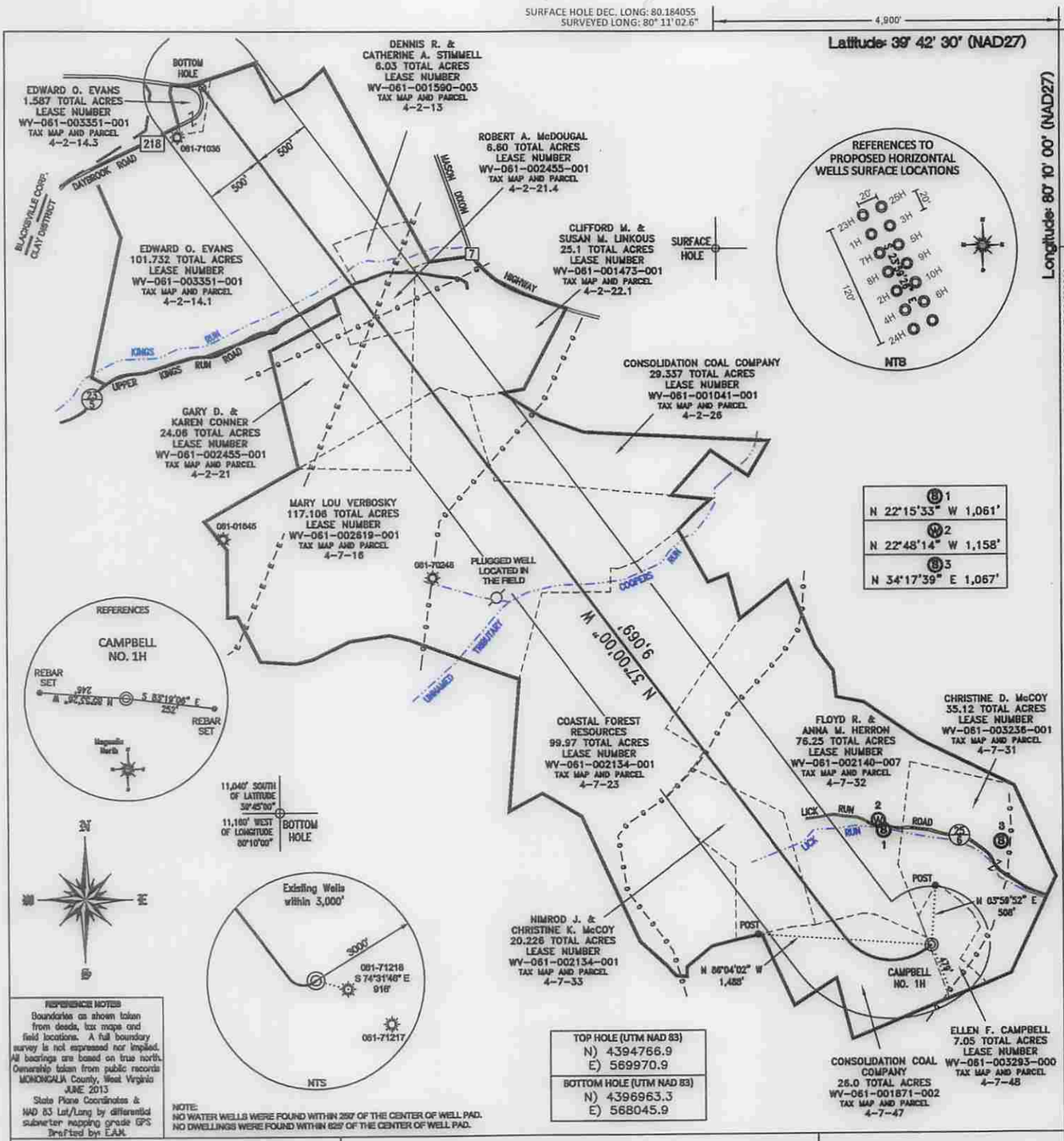
GRAPHIC SCALE



FILE #: NNE12
DRAWING #: 2322
SCALE: PLAT: 1" = 1200' TICK: 1" = 2000'
MINIMUM DEGREE OF ACCURACY: 1/200
PROVEN SOURCE OF ELEVATION: SUBMETER MAPPING GRADE GPS

I, 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: _____

L.L.S. #2124 : Ernest J. Benchek III

ERNEST J. BENCHEK III LICENSED No. 2124 STATE OF WEST VIRGINIA PROFESSIONAL SURVEYOR

(+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS

WVDEP
OFFICE OF OIL & GAS
601 57TH STREET
CHARLESTON, WV 25304

DATE: MARCH 4, 2015
OPERATOR'S WELL #: CAMPBELL NO. 1H
API WELL #: 47 (STATE) 61 (COUNTY) 01710 (PERMIT) H6A

Well Type: ☐ Oil ☐ Waste Diposal ☐ Production ☐ Deep
☒ Gas ☐ Liquid Injection ☐ Storage ☒ Shallow

WATERSHED: DUNKARD CREEK
ELEVATION: 1,293.6'
COUNTY/DISTRICT: MONONGALIA / CLAY
QUADRANGLE: BLACKSVILLE
SURFACE OWNER: ELLEN F. CAMPBELL
ACREAGE: 7.05 +/-
OIL & GAS ROYALTY OWNER: ELLEN FOLEY CAMPBELL, ET AL
ACREAGE: 535.018 +/-
LEASE NUMBERS:

DRILL ☒ CONVERT ☐ DRILL DEEPER ☐ REDRILL ☐ FRACTURE OR STIMULATE ☒
PLUG OFF FORMATION ☐ PERFORATE NEW FORMATION ☐ PLUG & ABANDON ☐
CLEAN OUT & REPLUG ☐ OTHER CHANGE ☐ (SPECIFY):

TARGET FORMATION: MARCELLUS
ESTIMATED DEPTH: TVD: 8,035' TMD: 17,586'
WELL OPERATOR: NORTHEAST NATURAL ENERGY LLC
DESIGNATED AGENT: JOHN ADAMS
ADDRESS: 707 VIRGINIA STREET EAST, SUITE 1200
ADDRESS: 707 VIRGINIA STREET EAST, SUITE 1200
CITY: CHARLESTON STATE: WV ZIP CODE: 25301
CITY: CHARLESTON STATE: WV ZIP CODE: 25301

4706101710

WW-6A1
(5/13)

Operator's Well No. Campbell 1H

INFORMATION SUPPLIED UNDER WEST VIRGINIA CODE
Chapter 22, Article 6A, Section 5(a)(5)
IN LIEU OF FILING LEASE(S) AND OTHER CONTINUING CONTRACT(S)

Under the oath required to make the verification on page 1 of this Notice and Application, I depose and say that I am the person who signed the Notice and Application for the Applicant, and that –

(1) the tract of land is the same tract described in this Application, partly or wholly depicted in the accompanying plat, and described in the Construction and Reclamation Plan;

(2) the parties and recordation data (if recorded) for lease(s) or other continuing contract(s) by which the Applicant claims the right to extract, produce or market the oil or gas are as follows:

Lease Name or Number	Grantor, Lessor, etc.	Grantee, Lessee, etc.	Royalty	Book/Page
See Attachment	See Attachment	See Attachment	See Attachment	See Attachment

Acknowledgement of Possible Permitting/Approval
In Addition to the Office of Oil and Gas

The permit applicant for the proposed well work addressed in this application hereby acknowledges the possibility of the need for permits and/or approvals from local, state, or federal entities in addition to the DEP, Office of Oil and Gas, including but not limited to the following:

- WV Division of Water and Waste Management
- WV Division of Natural Resources WV Division of Highways
- U.S. Army Corps of Engineers
- U.S. Fish and Wildlife Service
- County Floodplain Coordinator

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The applicant further acknowledges that any Office of Oil and Gas permit in no way overrides, replaces, or nullifies the need for other permits/approvals that may be necessary and further affirms that all needed permits/approvals should be acquired from the appropriate authority before the affected activity is initiated.

Well Operator: Northeast Natural Energy LLC
By: Holli M Medley
Its: Regulatory Coordinator

WW-6A1 Operator's Well No. Campbell 1H

NNE Lease No.	Grantor, Lessor, etc.	Grantee, Lessee, etc.	Royalty	Book/Page	Tax Map & Parcel
WV-061-003293-000	CAMPBELL, ELLEN FOLEY	NORTHEAST NATURAL ENERGY LLC	.125 or greater	1494/880	4-7-48
WV-061-001871-002	LEMLEY, SUSAN AND WILLIAM	NORTHEAST NATURAL ENERGY LLC	.125 or greater	1515/745	4-7-47
WV-061-003236-001	MCCOY, CHRISTINE DILLIE	*CHESAPEAKE APPALACHIA LLC	.125 or greater	1450/526	4-7-31
WV-061-002140-007	HERRON, ANNA MARGARET	Northeast Natural Energy LLC	.125 or greater	1506/764	4-7-32
WV-061-002140-008	HERRON, DONALD R. AND JENNIFER	Northeast Natural Energy LLC	.125 or greater	1507/411	4-7-32
WV-061-002140-009	HERRON, JAMES F. AND DIANE	Northeast Natural Energy LLC	.125 or greater	1507/403	4-7-32
WV-061-002140-010	HERRON, CHARLES K.	Northeast Natural Energy LLC	.125 or greater	1507/242	4-7-32
WV-061-002140-011	HERRON, HENRY G.	Northeast Natural Energy LLC	.125 or greater	1509/264	4-7-32
WV-061-002140-001	OLIVE CEMETERY OF PENTRESS	*CHESAPEAKE APPALACHIA LLC	.125 or greater	1396/669	4-7-32
WV-061-002140-002	MONONGALIA HOME CORPORATION	*CHESAPEAKE APPALACHIA LLC	.125 or greater	1397/616	4-7-32
WV-061-002140-003	UNITED OLIVE M.E. CHURCH OF PENTRESS	*CHESAPEAKE APPALACHIA LLC	.125 or greater	1410/526	4-7-32
WV-061-002140-004	CONN, JOHN L.	*CHESAPEAKE APPALACHIA LLC	.125 or greater	1419/595	4-7-32
WV-061-002140-005	AUSTIN, LINDA	*CHESAPEAKE APPALACHIA LLC	.125 or greater	1419/591	4-7-32
WV-061-002134-001	TENNANT, RAYMER F.	*CHESAPEAKE APPALACHIA LLC	.125 or greater	1396/663	4-7-33, 23
WV-061-002134-002	OLIVE CEMETERY OF PENTRESS	*CHESAPEAKE APPALACHIA LLC	.125 or greater	1396/666	4-7-33, 23
WV-061-002134-003	MONONGALIA HOME CORPORATION	*CHESAPEAKE APPALACHIA LLC	.125 or greater	1397/612	4-7-33, 23
WV-061-002134-004	UNITED OLIVE M.E. CHURCH OF PENTRESS	*CHESAPEAKE APPALACHIA LLC	.125 or greater	1410/522	4-7-33, 23
WV-061-002134-005	RAMSEY, KATHY JO	*CHESAPEAKE APPALACHIA LLC	.125 or greater	1410/551	4-7-33, 23
WV-061-002134-006	WALKER, CHARLENE K.	*CHESAPEAKE APPALACHIA LLC	.125 or greater	1410/548	4-7-33, 23
WV-061-002134-007	CONN, JOHN L.	*CHESAPEAKE APPALACHIA LLC	.125 or greater	1415/389	4-7-33, 23
WV-061-002134-008	AUSTIN, LINDA	*CHESAPEAKE APPALACHIA LLC	.125 or greater	1415/392	4-7-33, 23
WV-061-002134-009	TUTTLE, JAMES A.	*CHESAPEAKE APPALACHIA LLC	.125 or greater	1417/298	4-7-33, 23
WV-061-002134-010	TENNANT, WILLIAM R.	*CHESAPEAKE APPALACHIA LLC	.125 or greater	1417/302	4-7-33, 23
WV-061-002134-011	HAINES, ELLEN J.	*CHESAPEAKE APPALACHIA LLC	.125 or greater	1417/381	4-7-33, 23
WV-061-002134-012	CORDER, LEORA	*CHESAPEAKE APPALACHIA LLC	.125 or greater	1421/369	4-7-33, 23
WV-061-002134-013	TENNANT, FRANCIS MAHLON	*CHESAPEAKE APPALACHIA LLC	.125 or greater	1418/107	4-7-33, 23
WV-061-002134-014	BURKE, HAROLD E.	*CHESAPEAKE APPALACHIA LLC	.125 or greater	1418/103	4-7-33, 23
WV-061-002134-015	MCCULLOUGH, MARY R.	*CHESAPEAKE APPALACHIA LLC	.125 or greater	1421/377	4-7-33, 23
WV-061-000182-001	LEMLEY,MARY LOU	NORTHEAST NATURAL ENERGY LLC	.125 or greater	1431/224	4-7-23
WV-061-000578-006	SLEETH,LUZETTA	NORTHEAST NATURAL ENERGY LLC	.125 or greater	1439/627	4-7-23
WV-061-000578-007	AMMONS, VIRGINIA LEMLEY	NORTHEAST NATURAL ENERGY LLC	.125 or greater	1437/822	4-7-23
WV-061-000578-009	PRATT, ROGER	NORTHEAST NATURAL ENERGY LLC	.125 or greater	1439/625	4-7-23
WV-061-002489-001	CAMPBELL, FRANCIS M.	*CHESAPEAKE APPALACHIA LLC	.125 or greater	1427/373	4-7-23
WV-061-002489-002	COX, DELORES E.	*CHESAPEAKE APPALACHIA LLC	.125 or greater	1427/377	4-7-23
WV-061-002489-003	PHILLIPS, BETTY RUTH	*CHESAPEAKE APPALACHIA LLC	.125 or greater	1430/324	4-7-23
WV-061-002489-004	MORRIS, ELMA JEAN	*CHESAPEAKE APPALACHIA LLC	.125 or greater	1430/310	4-7-23
WV-061-002489-005	FAUST, SHARON	*CHESAPEAKE APPALACHIA LLC	.125 or greater	1430/349	4-7-23
WV-061-002489-006	GRECO, DENISE	*CHESAPEAKE APPALACHIA LLC	.125 or greater	1431/428	4-7-23
WV-061-002489-007	MORRIS, BARBARA H.	*CHESAPEAKE APPALACHIA LLC	.125 or greater	1436/454	4-7-23
WV-061-002489-008	HINCHEY, MARY LEE	*CHESAPEAKE APPALACHIA LLC	.125 or greater	1438/635	4-7-23
WV-061-002489-009	CREAMER, STEVEN ROSS	*CHESAPEAKE APPALACHIA LLC	.125 or greater	1438/639	4-7-23
WV-061-002489-010	MOORE, LLOYD HOWARD AND RUTH R.	*CHESAPEAKE APPALACHIA LLC	.125 or greater	1445/054	4-7-23
WV-061-002489-011	STROSNIDER, JAMES MICHAEL	*CHESAPEAKE APPALACHIA LLC	.125 or greater	1441/850	4-7-23
WV-061-002489-012	FETTY, JENNA	*CHESAPEAKE APPALACHIA LLC	.125 or greater	1441/845	4-7-23
WV-061-002489-013	CREAMER, KARL WILLIAM AND DARLENE E.	*CHESAPEAKE APPALACHIA LLC	.125 or greater	1442/569	4-7-23

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WW-6A1 Operator's Well No. Campbell 1H

NNE Lease No.	Grantor, Lessor, etc.	Grantee, Lessee, etc.	Royalty	Book/Page	Tax Map & Parcel
WV-061-002489-014	BENNETT, PATRICIA	*CHESAPEAKE APPALACHIA LLC	.125 or greater	1454/857	4-7-23
WV-061-003286-001	TRUSTEES OF UNITED OLIVE M.E. CHURCH OR PENTRE	NORTHEAST NATURAL ENERGY LLC	.125 or greater	1492/567	4-7-23
WV-061-003286-002	TRUSTEES OF THE OLIVE CEMETERY AT PENTRESS	NORTHEAST NATURAL ENERGY LLC	.125 or greater	1492/830	4-7-23
WV-061-001137-001	WILLARD, MARJORIE SIMPSON	*CHESAPEAKE APPALACHIA LLC	.125 or greater	1360/274	4-7-16
WV-061-002619-001	TENNANT, BILLIE JEAN	*CHESAPEAKE APPALACHIA LLC	.125 or greater	1441/293	4-7-16
WV-061-002619-002	DAWSON, MARY SPRAGG	*CHESAPEAKE APPALACHIA LLC	.125 or greater	1441/289	4-7-16
WV-061-002619-003	MATHENY, BECKY SUE	*CHESAPEAKE APPALACHIA LLC	.125 or greater	1442/62	4-7-16
WV-061-002619-004	LEMLEY, LUANNE	*CHESAPEAKE APPALACHIA LLC	.125 or greater	1442/589	4-7-16
WV-061-002619-005	MASON, LUE	*CHESAPEAKE APPALACHIA LLC	.125 or greater	1442/593	4-7-16
WV-061-001041-001	MOHAMMADI, AMIR H.	NORTHEAST NATURAL ENERGY LLC	.125 or greater	1483/495	4-2-26
WV-061-001041-002	AFSHARI, ALIAKBAR	NORTHEAST NATURAL ENERGY LLC	.125 or greater	1483/831	4-2-26
WV-061-001473-001	THOMAS, JAMES HENRY	*CHESAPEAKE APPALACHIA LLC	.125 or greater	1379/323	4-2-22.1
WV-061-001473-002	THOMAS, CHARLES L.	*CHESAPEAKE APPALACHIA LLC	.125 or greater	1379/311	4-2-22.1
WV-061-002455-001	COPELAND, RAYMOND E.	*CHESAPEAKE APPALACHIA LLC	.125 or greater	1418/111	4-2-21, 21.4
WV-061-002455-002	COPELAND, JIMMIE	*CHESAPEAKE APPALACHIA LLC	.125 or greater	1421/363	4-2-21, 21.4
WV-061-002455-003	COPELAND, MONA JOY	*CHESAPEAKE APPALACHIA LLC	.125 or greater	1422/505	4-2-21, 21.4
WV-061-002455-004	COPELAND, DANIEL M.	*CHESAPEAKE APPALACHIA LLC	.125 or greater	1422/493	4-2-21, 21.4
WV-061-002455-005	COPELAND, ROBERT LYLE	*CHESAPEAKE APPALACHIA LLC	.125 or greater	1422/499	4-2-21, 21.4
WV-061-002455-006	SIMPSON, RUBY JANE	*CHESAPEAKE APPALACHIA LLC	.125 or greater	1422/511	4-2-21, 21.4
WV-061-002455-007	COPELAND, AMY LYNN	*CHESAPEAKE APPALACHIA LLC	.125 or greater	1431/258	4-2-21, 21.4
WV-061-002455-008	COPELAND, III, JOHN MAX	*CHESAPEAKE APPALACHIA LLC	.125 or greater	1431/819	4-2-21, 21.4
WV-061-002455-009	STOKES, JACQUELINE MAXINE	*CHESAPEAKE APPALACHIA LLC	.125 or greater	1435/218	4-2-21, 21.4
WV-061-002455-010	SINCLAIR, JOAN L.	*CHESAPEAKE APPALACHIA LLC	.125 or greater	1439/200	4-2-21, 21.4
WV-061-002455-011	BENNETT,JR. CHARLES E.	*CHESAPEAKE APPALACHIA LLC	.125 or greater	1439/196	4-2-21, 21.4
WV-061-002455-012	HAYHURST, DEBORAH S.	*CHESAPEAKE APPALACHIA LLC	.125 or greater	1440/626	4-2-21, 21.4
WV-061-001590-003	THOMAS, JAMES HENRY	*CHESAPEAKE APPALACHIA LLC	.125 or greater	1385/328	4-2-13
WV-061-001590-004	BAKEWELL, FRANCES P.	*CHESAPEAKE APPALACHIA LLC	.125 or greater	1391/335	4-2-13
WV-061-001590-005	LEESON, LENNA LOU	*CHESAPEAKE APPALACHIA LLC	.125 or greater	1396/561	4-2-13
WV-061-003351-001	EVANS, EDWARD O.	NORTHEAST NATURAL ENERGY LLC	.125 or greater	1501/435	4-2-14.1,14.3

*See Attachment

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Chesapeake Appalachia, LLC.

|

Northeast Natural Energy
Assignment
BK 120/769

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northeast
NATURAL ENERGY

March 6, 2015

WV Department of Environmental Protection
Office of Oil and Gas Management
601 57th Street, SE
Charleston, WV 25304

RE: Campbell 1H

Dear Permit Reviewer,

Please be advised that Northeast Natural Energy LLC has the right to drill, extract and produce the minerals beneath the road identified as Daybrook Road (State Route 218) on the enclosed survey plat.

Thank you for your cooperation.

Sincerely,

Jeannie Morgan Johnson, CPL
Vice President – Land Operations

Enclosures

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WW-6AC
(1/12)

4706101710

STATE OF WEST VIRGINIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS
NOTICE CERTIFICATION

Date of Notice Certification: 03/16/2015

API No. 47- _____ - _____
Operator's Well No. Campbell 1H
Well Pad Name: Campbell

Notice has been given:
Pursuant to the provisions in West Virginia Code § 22-6A, the Operator has provided the required parties with the Notice Forms listed below for the tract of land as follows:

State:	West Virginia	UTM NAD 83 Easting:	569970.9
County:	Monongalia	Northing:	4394766.9
District:	Clay	Public Road Access:	State Route 218 (Daybrook Road)
Quadrangle:	Blacksville, WV	Generally used farm name:	Campbell
Watershed:	Dunkard		

Pursuant to West Virginia Code § 22-6A-7(b), every permit application filed under this section shall be on a form as may be prescribed by the secretary, shall be verified and shall contain the following information: (14) A certification from the operator that (i) it has provided the owners of the surface described in subdivisions (1), (2) and (4), subsection (b), section ten of this article, the information required by subsections (b) and (c), section sixteen of this article; (ii) that the requirement was deemed satisfied as a result of giving the surface owner notice of entry to survey pursuant to subsection (a), section ten of this article six-a; or (iii) the notice requirements of subsection (b), section sixteen of this article were waived in writing by the surface owner; and Pursuant to West Virginia Code § 22-6A-11(b), the applicant shall tender proof of and certify to the secretary that the notice requirements of section ten of this article have been completed by the applicant.

Pursuant to West Virginia Code § 22-6A, the Operator has attached proof to this Notice Certification that the Operator has properly served the required parties with the following: *PLEASE CHECK ALL THAT APPLY	OOG OFFICE USE ONLY
☐ 1. NOTICE OF SEISMIC ACTIVITY or ☒ NOTICE NOT REQUIRED BECAUSE NO SEISMIC ACTIVITY WAS CONDUCTED	☑ RECEIVED/ NOT REQUIRED
☒ 2. NOTICE OF ENTRY FOR PLAT SURVEY or ☐ NO PLAT SURVEY WAS CONDUCTED	☑ RECEIVED
☒ 3. NOTICE OF INTENT TO DRILL or ☐ NOTICE NOT REQUIRED BECAUSE NOTICE OF ENTRY FOR PLAT SURVEY WAS CONDUCTED or ☐ WRITTEN WAIVER BY SURFACE OWNER (PLEASE ATTACH)	☑ RECEIVED/ NOT REQUIRED
☒ 4. NOTICE OF PLANNED OPERATION	☑ RECEIVED
☒ 5. PUBLIC NOTICE	☑ RECEIVED
☒ 6. NOTICE OF APPLICATION	☑ RECEIVED

Required Attachments:
The Operator shall attach to this Notice Certification Form all Notice Forms and Certifications of Notice that have been provided to the required parties and/or any associated written waivers. For the Public Notice, the operator shall attach a copy of the Class II Legal Advertisement with publication date verification or the associated Affidavit of Publication. The attached Notice Forms and Certifications of Notice shall serve as proof that the required parties have been noticed as required under West Virginia Code § 22-6A. Pursuant to West Virginia Code § 22-6A-11(b), the Certification of Notice to the person may be made by affidavit of personal service, the return receipt card or other postal receipt for certified mailing.

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WW-6AC
(1/12)

4706101710

Certification of Notice is hereby given:

THEREFORE, I Hollie M. Medley, have read and understand the notice requirements within West Virginia Code § 22-6A. I certify that as required under West Virginia Code § 22-6A, I have served the attached copies of the Notice Forms, identified above, to the required parties through personal service, by registered mail or by any method of delivery that requires a receipt or signature confirmation. I certify under penalty of law that I have personally examined and am familiar with the information submitted in this Notice Certification and all attachments, 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 and imprisonment.

Well Operator:	Northeast Natural Energy LLC	Address:	707 Virginia Street East, Suite 1200
By:	Hollie M. Medley		Charleston, WV 25301
Its:	Regulatory Coordinator	Facsimile:	304-241-5972
Telephone:	304-241-5752 ext. 7108	Email:	hmedley@nne-llc.com

NOTARY OFFICIAL SEAL
Andrew J. Travis
Notary Public
State of West Virginia
My Commission Expires
April 11, 2017
6240 Mid Atlantic Drive
Morgantown, WV 26508

Hollie M Medley

Subscribed and sworn before me this 13th day of March, 2015.

Andrew J Travis Notary Public

My Commission Expires April 11, 2017

Oil and Gas Privacy Notice:

The Office of Oil and Gas processes your personal information, such as name, address and telephone number, as part of our regulatory duties. Your personal information may be disclosed to other State agencies or third parties in the normal course of business or as needed to comply with statutory or regulatory requirements, including Freedom of Information Act requests. Our office will appropriately secure your personal information. If you have any questions about our use or your personal information, please contact DEP's Chief Privacy Officer at depprivacyofficer@wv.gov.

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Environmental Protection

WW-6A
(9-13)

API NO. 47 - 4706101710
OPERATOR WELL NO. Campbell 1H
Well Pad Name: Campbell

STATE OF WEST VIRGINIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS
NOTICE OF APPLICATION

Notice Time Requirement: notice shall be provided no later than the **filing date of permit application.**

Date of Notice: 3/4/2015 **Date Permit Application Filed:** 3/16/2015

Notice of:

☑ PERMIT FOR ANY WELL WORK ☐ CERTIFICATE OF APPROVAL FOR THE CONSTRUCTION OF AN IMPOUNDMENT OR PIT

Delivery method pursuant to West Virginia Code § 22-6A-10(b)

☐ PERSONAL SERVICE ☑ REGISTERED MAIL ☐ METHOD OF DELIVERY THAT REQUIRES A RECEIPT OR SIGNATURE CONFIRMATION

Pursuant to W. Va. Code § 22-6A-10(b) no later than the filing date of the application, the applicant for a permit for any well work or for a certificate of approval for the construction of an impoundment or pit as required by this article shall deliver, by personal service or by registered mail or by any method of delivery that requires a receipt or signature confirmation, copies of the application, the erosion and sediment control plan required by section seven of this article, and the well plat to each of the following persons: (1) The owners of record of the surface of the tract on which the well is or is proposed to be located; (2) The owners of record of the surface tract or tracts overlying the oil and gas leasehold being developed by the proposed well work, if the surface tract is to be used for roads or other land disturbance as described in the erosion and sediment control plan submitted pursuant to subsection (c), section seven of this article; (3) The coal owner, operator or lessee, in the event the tract of land on which the well proposed to be drilled is located [sic] is known to be underlain by one or more coal seams; (4) The owners of record of the surface tract or tracts overlying the oil and gas leasehold being developed by the proposed well work, if the surface tract is to be used for the placement, construction, enlargement, alteration, repair, removal or abandonment of any impoundment or pit as described in section nine of this article; (5) Any surface owner or water purveyor who is known to the applicant to have a water well, spring or water supply source located within one thousand five hundred feet of the center of the well pad which is used to provide water for consumption by humans or domestic animals; and (6) The operator of any natural gas storage field within which the proposed well work activity is to take place. (c)(1) If more than three tenants in common or other co-owners of interests described in subsection (b) of this section hold interests in the lands, the applicant may serve the documents required upon the person described in the records of the sheriff required to be maintained pursuant to section eight, article one, chapter eleven-a of this code. (2) Notwithstanding any provision of this article to the contrary, notice to a lien holder is not notice to a landowner, unless the lien holder is the landowner. W. Va. Code R. § 35-8-5.7.a requires, in part, that the operator shall also provide the Well Site Safety Plan ("WSSP") to the surface owner and any water purveyor or surface owner subject to notice and water testing as provided in section 15 of this rule.

☑ Application Notice ☑ WSSP Notice ☑ E&S Plan Notice ☑ Well Plat Notice is hereby provided to:

☑ SURFACE OWNER(s)
Name: See Attachment
Address: _____

Name: _____
Address: _____

☐ SURFACE OWNER(s) (Road and/or Other Disturbance)
Name: See Attachment
Address: _____

Name: _____
Address: _____

☐ SURFACE OWNER(s) (Impoundments or Pits)
Name: _____
Address: _____

☑ COAL OWNER OR LESSEE
Name: See Attachment
Address: _____

☐ COAL OPERATOR
Name: _____
Address: _____

☑ SURFACE OWNER OF WATER WELL AND/OR WATER PURVEYOR(s)
Name: See Attachment
Address: _____

☐ OPERATOR OF ANY NATURAL GAS STORAGE FIELD
Name: _____
Address: _____

*Please attach additional forms if necessary

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WV Department of Environmental Protection

WW-6A
(8-13)

API NO. 47-_____-_____
OPERATOR WELL NO. Campbell 1H
Well Pad Name: Campbell

Notice is hereby given:
Pursuant to West Virginia Code § 22-6A-10(b), notice is hereby given that the undersigned well operator has applied for a permit for well work or for a certificate of approval for the construction of an impoundment or pit.

This Notice Shall Include:
Pursuant to W. Va. Code § 22-6A-10(b), this notice shall include: (1) copies of the application; (2) the erosion and sediment control plan required by section seven of this article; and (3) the well plat.

Pursuant to W. Va. Code § 22-6A-10(f), this notice shall include: (1) a statement of the time limits for filing written comments; (2) who may file written comments; (3) the name and address of the secretary for the purpose of filing the comments and obtaining additional information; and (4) a statement that the persons may request, at the time of submitting written comments, notice of the permit decision and a list of persons qualified to test water.

Pursuant to W. Va. Code R. § 35-8-5.7.a, the operator shall provide the Well Site Safety Plan to the surface owner and any water purveyor or surface owner subject to notice and water testing as provided in section 15 of this rule.

Pursuant to W. Va. Code R. § 35-8-15.2.c, this notice shall: (1) contain a statement of the surface owner's and water purveyor's right to request sampling and analysis; (2) advise the surface owner and water purveyor of the rebuttable presumption for contamination or deprivation of a fresh water source or supply; advise the surface owner and water purveyor that refusal to allow the operator to conduct a pre-drilling water well test constitutes a method to rebut the presumption of liability; (3) advise the surface owner and water purveyor of his or her independent right to sample and analyze any water supply at his or her own expense; advise the surface owner and water purveyor whether or not the operator will utilize an independent laboratory to analyze any sample; and (4) advise the surface owner and or water purveyor that he or she can obtain from the Chief a list of water testing laboratories in the subject area capable of and qualified to test water supplies in accordance with standard acceptable methods.

Additional information related to horizontal drilling may be obtained from the Secretary, at the WV Department of Environmental Protection headquarters, located at 601 57th Street, SE, Charleston, WV 25304 (304-926-0450) or by visiting www.dep.wv.gov/oil-and-gas/pages/default.aspx.

Well Location Restrictions
Pursuant to W. Va. Code § 22-6A-12, Wells may not be drilled within two hundred fifty feet measured horizontally from any existing water well or developed spring used for human or domestic animal consumption. The center of well pads may not be located within six hundred twenty-five feet of an occupied dwelling structure, or a building two thousand five hundred square feet or larger used to house or shelter dairy cattle or poultry husbandry. This limitation is applicable to those wells, developed springs, dwellings or agricultural buildings that existed on the date a notice to the surface owner of planned entry for surveying or staking as provided in section ten of this article or a notice of intent to drill a horizontal well as provided in subsection (b), section sixteen of this article was provided, whichever occurs first, and to any dwelling under construction prior to that date. This limitation may be waived by written consent of the surface owner transmitted to the department and recorded in the real property records maintained by the clerk of the county commission for the county in which such property is located. Furthermore, the well operator may be granted a variance by the secretary from these distance restrictions upon submission of a plan which identifies the sufficient measures, facilities or practices to be employed during well site construction, drilling and operations. The variance, if granted, shall include terms and conditions the department requires to ensure the safety and protection of affected persons and property. The terms and conditions may include insurance, bonding and indemnification, as well as technical requirements. (b) No well pad may be prepared or well drilled within one hundred feet measured horizontally from any perennial stream, natural or artificial lake, pond or reservoir, or a wetland, or within three hundred feet of a naturally reproducing trout stream. No well pad may be located within one thousand feet of a surface or ground water intake of a public water supply. The distance from the public water supply as identified by the department shall be measured as follows: (1) For a surface water intake on a lake or reservoir, the distance shall be measured from the boundary of the lake or reservoir. (2) For a surface water intake on a flowing stream, the distance shall be measured from a semicircular radius extending upstream of the surface water intake. (3) For a groundwater source, the distance shall be measured from the wellhead or spring. The department may, in its discretion, waive these distance restrictions upon submission of a plan identifying sufficient measures, facilities or practices to be employed during well site construction, drilling and operations to protect the waters of the state. A waiver, if granted, shall impose any permit conditions as the secretary considers necessary. (c) Notwithstanding the foregoing provisions of this section, nothing contained in this section prevents an operator from conducting the activities permitted or authorized by a Clean Water Act Section 404 permit or other approval from the United States Army Corps of Engineers within any waters of the state or within the restricted areas referenced in this section. (d) The well location restrictions set forth in this section shall not apply to any well on a multiple well pad if at least one of the wells was permitted prior to the effective date of this article. (e) The secretary shall, by December 31, 2012, report to the Legislature on the noise, light, dust and volatile organic compounds generated by the drilling of horizontal wells as they relate to the well location restrictions regarding occupied dwelling structures pursuant to this section. Upon a finding, if any, by the secretary that the well location restrictions regarding occupied dwelling structures are inadequate or otherwise require alteration to address the items

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Environmental Protection

API NO. 47- 4706101710
OPERATOR WELL NO. Campbell 1H
Well Pad Name: Campbell

examined in the study required by this subsection, the secretary shall have the authority to propose for promulgation legislative rules establishing guidelines and procedures regarding reasonable levels of noise, light, dust and volatile organic compounds relating to drilling horizontal wells, including reasonable means of mitigating such factors, if necessary.

Water Well Testing:
Pursuant to West Virginia Code § 22-6A-10(d), notification shall be made, with respect to surface landowners identified in subsection (b) or water purveyors identified in subdivision (5), subsection (b) of this section, of the opportunity for testing their water well. The operator shall provide an analysis to such surface landowner or water purveyor at their request.

Water Testing Laboratories:
Pursuant to West Virginia Code § 22-6A-10(i), persons entitled to notice pursuant to subsection (b) of this section may contact the department to ascertain the names and locations of water testing laboratories in the subject area capable and qualified to test water supplies in accordance with standard accepted methods. In compiling that list of names the department shall consult with the state Bureau for Public Health and local health departments. A surface owner and water purveyor has an independent right to sample and analyze any water supply at his or her own expense. The laboratory utilized by the operator shall be approved by the agency as being certified and capable of performing sample analyses in accordance with this section.

Rebuttable Presumption for Contamination or Deprivation of a Fresh Water Source or Supply:

W. Va. Code § 22-6A-18 requires that (b) unless rebutted by one of the defenses established in subsection (c) of this section, in any action for contamination or deprivation of a fresh water source or supply within one thousand five hundred feet of the center of the well pad for horizontal well, there is a rebuttable presumption that the drilling and the oil or gas well or either was the proximate cause of the contamination or deprivation of the fresh water source or supply. (c) In order to rebut the presumption of liability established in subsection (b) of this section, the operator must prove by a preponderance of the evidence one of the following defenses: (1) The pollution existed prior to the drilling or alteration activity as determined by a predrilling or prealteration water well test. (2) The landowner or water purveyor refused to allow the operator access to the property to conduct a predrilling or prealteration water well test. (3) The water supply is not within one thousand five hundred feet of the well. (4) The pollution occurred more than six months after completion of drilling or alteration activities. (5) The pollution occurred as the result of some cause other than the drilling or alteration activity. (d) Any operator electing to preserve its defenses under subdivision (1), subsection (c) of this section shall retain the services of an independent certified laboratory to conduct the predrilling or prealteration water well test. A copy of the results of the test shall be submitted to the department and the surface owner or water purveyor in a manner prescribed by the secretary. (e) Any operator shall replace the water supply of an owner of interest in real property who obtains all or part of that owner's supply of water for domestic, agricultural, industrial or other legitimate use from an underground or surface source with a comparable water supply where the secretary determines that the water supply has been affected by contamination, diminution or interruption proximately caused by the oil or gas operation, unless waived in writing by that owner. (f) The secretary may order the operator conducting the oil or gas operation to: (1) Provide an emergency drinking water supply within twenty-four hours; (2) Provide temporary water supply within seventy-two hours; (3) Within thirty days begin activities to establish a permanent water supply or submit a proposal to the secretary outlining the measures and timetables to be used in establishing a permanent supply. The total time in providing a permanent water supply may not exceed two years. If the operator demonstrates that providing a permanent replacement water supply cannot be completed within two years, the secretary may extend the time frame on case-by-case basis; and (4) Pay all reasonable costs incurred by the real property owner in securing a water supply. (g) A person as described in subsection (b) of this section aggrieved under the provisions of subsections (b), (e) or (f) of this section may seek relief in court... (i) Notwithstanding the denial of the operator of responsibility for the damage to the real property owner's water supply or the status of any appeal on determination of liability for the damage to the real property owner's water supply, the operator may not discontinue providing the required water service until authorized to do so by the secretary or a court of competent jurisdiction.

Written Comment:
Pursuant to West Virginia Code § 22-6A-11(a), all persons described in subsection (b), section ten of this article may file written comments with the secretary as to the location or construction of the applicant's proposed well work within thirty days after the application is filed with the secretary. All persons described in West Virginia Code § 22-6A-10(b) may file written comments as to the location or construction of the applicant's proposed well work to the Secretary at:

Chief, Office of Oil and Gas
Department of Environmental Protection
601 57th St. SE
Charleston, WV 25304
(304) 926-0450

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Such persons may request, at the time of submitting written comments, notice of the permit decision and a list of persons qualified to test water. **NOTE: YOU ARE NOT REQUIRED TO FILE ANY COMMENT.**

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(8-13)

API NO. 47- 4706101710
OPERATOR WELL NO. Campbell 1H
Well Pad Name: Campbell

Time Limits and Methods for Filing Comments.

The law requires these materials to be served on or before the date the operator files its Application. You have **THIRTY (30) DAYS** after the filing date to file your comments. Comments must be filed in person or received in the mail by the Chief's office by the time stated above. You may call the Chief's office to be sure of the date. Check with your postmaster to ensure adequate delivery time or to arrange special expedited handling. If you have been contacted by the well operator and you have signed a "voluntary statement of no objection" to the planned work described in these materials, then the permit may be issued at any time.

Pursuant to West Virginia Code § 22-6A-11(c)(2), Any objections of the affected coal operators and coal seam owners and lessees shall be addressed through the processes and procedures that exist under sections fifteen, seventeen and forty, article six of this chapter, as applicable and as incorporated into this article by section five of this article. The written comments filed by the parties entitled to notice under subdivisions (1), (2), (4), (5) and (6), subsection (b), section ten of this article shall be considered by the secretary in the permit issuance process, but the parties are not entitled to participate in the processes and proceedings that exist under sections fifteen, seventeen or forty, article six of this chapter, as applicable and as incorporated into this article by section five of this article.

Comment Requirements

Your comments must be in writing and include your name, address and telephone number, the well operator's name and well number and the approximate location of the proposed well site including district and county from the application. You may add other documents, such as sketches, maps or photographs to support your comments.

Disclaimer: All comments received will be placed on our web site http://www.dep.wv.gov/oil-and-gas/Horizontal-Permits/Pages/default.aspx and the applicant will automatically be forwarded an email notice that such comments have been submitted. The applicant will be expected to provide a response to comments submitted by any surface owner, water purveyor or natural gas storage operator noticed within the application.

Permit Denial or Condition

The Chief has the power to deny or condition a well work permit. Pursuant to West Virginia Code § 22-6A-8(d), the permit may not be issued or be conditioned, including conditions with respect to the location of the well and access roads prior to issuance if the director determines that:

(1) The proposed well work will constitute a hazard to the safety of persons;
(2) The plan for soil erosion and sediment control is not adequate or effective;
(3) Damage would occur to publicly owned lands or resources; or
(4) The proposed well work fails to protect fresh water sources or supplies.

A permit may also be denied under West Virginia Code § 22-6A-7(k), the secretary shall deny the issuance of a permit if the secretary determines that the applicant has committed a substantial violation of a previously issued permit for a horizontal well, including the applicable erosion and sediment control plan associated with the previously issued permit, or a substantial violation of one or more of the rules promulgated under this article, and in each instance has failed to abate or seek review of the violation within the time prescribed by the secretary pursuant to the provisions of subdivisions (1) and (2), subsection (a), section five of this article and the rules promulgated hereunder, which time may not be unreasonable.

Pursuant to West Virginia Code § 22-6A-10(g), any person entitled to submit written comments to the secretary pursuant to subsection (a), section eleven of this article, shall also be entitled to receive from the secretary a copy of the permit as issued or a copy of the order modifying or denying the permit if the person requests receipt of them as a part of the written comments submitted concerning the permit application. Such persons may request, at the time of submitting written comments, notice of the permit decision and a list of persons qualified to test water.

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WW-6A
(8-13)

API NO. 47- 4706101710
OPERATOR WELL NO. Campbell 1H
Well Pad Name: Campbell

Notice is hereby given by:

Well Operator: Northeast Natural Energy LLC
Address: 707 Virginia Street E., Suite 1200
Charleston, WV 25301
Telephone: 304-241-5752 ext. 7108
Email: hmedley@nne-llc.com
Facsimile: 304-241-5972

Oil and Gas Privacy Notice:

The Office of Oil and Gas processes your personal information, such as name, address and telephone number, as part of our regulatory duties. Your personal information may be disclosed to other State agencies or third parties in the normal course of business or as needed to comply with statutory or regulatory requirements, including Freedom of Information Act requests. Our office will appropriately secure your personal information. If you have any questions about our use or your personal information, please contact DEP's Chief Privacy Officer at depprivacyofficer@wv.gov.

Holli M Medley

OFFICIAL SEAL
Andrew J. Travis
Notary Public
State of West Virginia
My Commission Expires
April 11, 2017
6240 Mid Atlantic Drive
Morgantown, WV 26508

Subscribed and sworn before me this 13th day of March, 2015.

Andrew J. Travis Notary Public

My Commission Expires April 11, 2017

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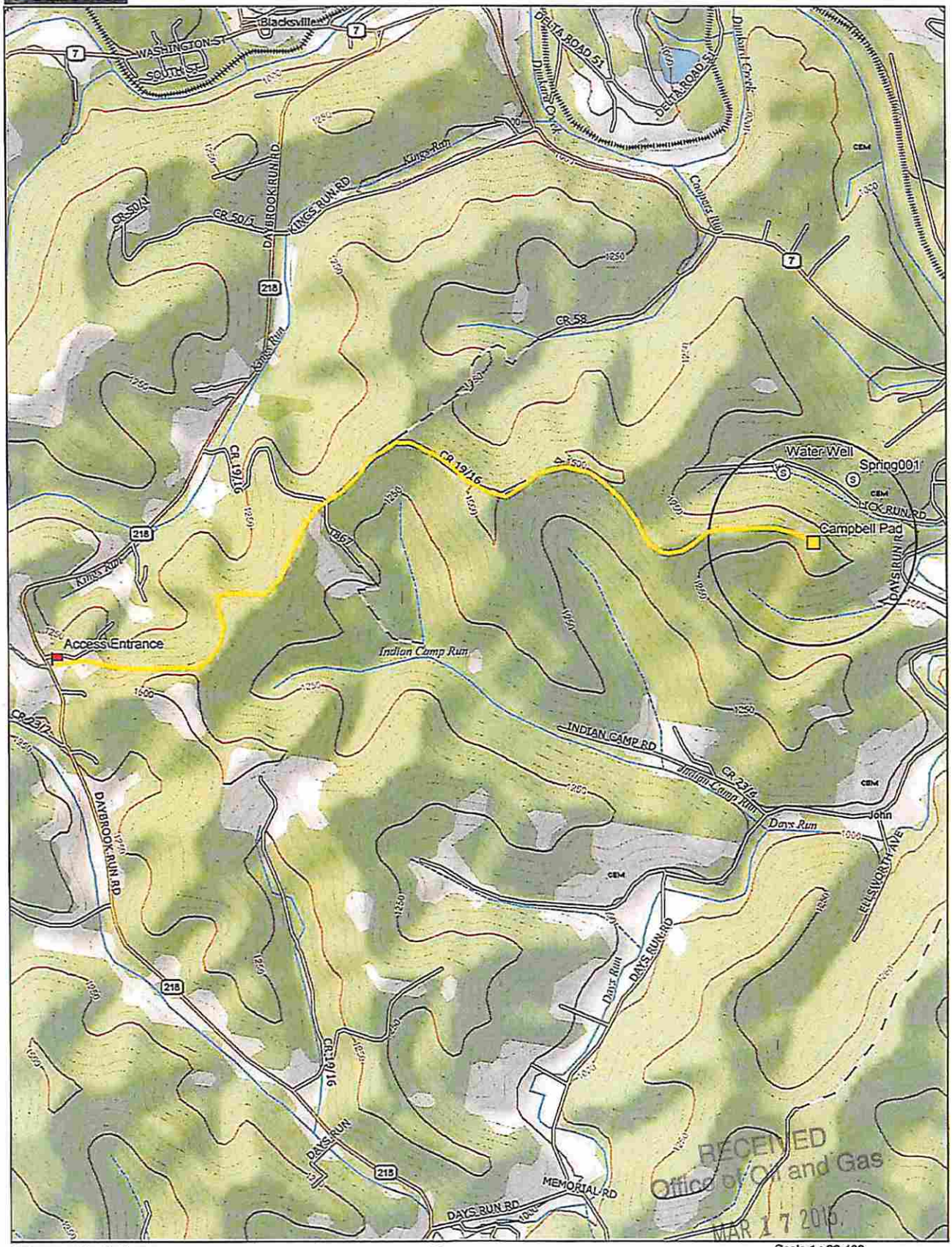
4706101710

DeLORME XMap® 7



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Scale 1 : 22,400
1" = 1,856.7 ft
Data Zoom 13-2

4706101710

Campbell 1H

Surface Owner(S)

Consolidated Coal Company
CNX Center
1000 Consol Energy Drive
Canonsburg, PA 15317

Anna M. Herron
174 Lick Run Road
Fairview, WV 26570

Charles K. Herron
3115 Dillon Avenue
Cheyenne, WY 82001

Henry G. Herron
1112 North Lewellen Street
Wichita, KS 67203

Donald R. Herron
14213 West Sheriac Circle
Wichita, KS 67235

James F. Herron
903 Bluff View Court
Chippewa Falls, WI 54729

Ellen F. Campbell
1349 Buckeye Road
Mt. Morris, PA 15349

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4706101710

Surface Owner(s) (Road and/or Other Disturbance)

Consolidated Coal Company
CNX Center
1000 Consol Energy Drive
Canonsburg, PA 15317

Anna M. Herron
174 Lick Run Road
Fairview, WV 26570

Charles K. Herron
3115 Dillon Avenue
Cheyenne, WY 82001

Henry G. Herron
1112 North Lewellen Street
Wichita, KS 67203

Donald R. Herron
14213 West Sheriac Circle
Wichita, KS 67235

James F. Herron
903 Bluff View Court
Chippewa Falls, WI 54729

Ellen F. Campbell
1349 Buckeye Road
Mt. Morris, PA 15349

Aaron K. Fisher
2524 Paxton Street
Woodbridge, VA 22192

Alex Wilson
2344 Daybrook Road
Fairview, WV 26570

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Arthur and Sandra L. Main
258 Days Run Road
Fairview, WV 26570-9209

Clarence L. and Betty Jo Tennant
72 Dustin Lane
Morgantown, 26501

Coastal Forest Resources Company
P.O. Box 709
Buckhannon, WV 26201

David Allen Simpson
657 Daybrook Road
Fairview, WV 26570

Edna F. Simpson (life estate),
Mr. & Mrs. Donnie E. Simpson
993 Daybrook Road
Fairview, WV 26570

Gary E. Simpson
67 McCoy Road
Fairview, WV 26570

John Basile
P.O. Box 194
Blacksville, WV 26521

Kenneth W. & Clara M. Dean
P.O. Box 27
Blacksville, WV 26521

Nimrod and Christine Dillie McCoy
306 Lick Run Road
Fairview, WV 26570

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Richard Price
1047 Daybrook Road
Fairview, WV 26570

Robert and Lucy Wilson
P.O. Box 678
Buckeye, OH 43008

William M. and Pamela S. Gardner
310 Harner Road
Bruceton Mills, WV 26525

William J. and Linda S. Solomon
1440 Fairfield Street
Star City, WV 26505

Coal Owner or Lessee

Consolidated Coal Company
CNX Center
1000 Consol Energy Drive
Canonsburg, PA 15317

Coal Operator

Patriot Coal Corporation
P.O. Box 1001
Scott Depot, WV 26550-1001

Surface Owner of Water Well and/or Water Purveyor(s)

Anna M. Herron
174 Lick Run Road
Fairview, WV 26570

Charles K. Herron
3115 Dillon Avenue
Cheyenne, WY 82001

4706101710

Henry G. Herron
1112 North Lewellen Street
Wichita, KS 67203

Donald R. Herron
14213 West Sheriac Circle
Wichita, KS 67235

James F. Herron
903 Bluff View Court
Chippewa Falls, WI 54729

Nimrod and Christine Dillie McCoy
306 Lick Run Road
Fairview, WV 26570

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4706101710

WW-6A3
(1/12)

Operator Well No. Campbell

STATE OF WEST VIRGINIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS
NOTICE OF ENTRY FOR PLAT SURVEY

Notice Time Requirement: Notice shall be provided at least **SEVEN (7)** days but no more than **FORTY-FIVE (45)** days prior to entry

Date of Notice: 10/18/2013 **Date of Planned Entry:** 10/28/2013

Delivery method pursuant to West Virginia Code § 22-6A-10a

☐ PERSONAL SERVICE ☒ REGISTERED MAIL ☐ METHOD OF DELIVERY THAT REQUIRES A RECEIPT OR SIGNATURE CONFIRMATION

Pursuant to West Virginia Code § 22-6A-10(a), Prior to filing a permit application, the operator shall provide notice of planned entry on to the surface tract to conduct any plat surveys required pursuant to this article. Such notice shall be provided at least seven days but no more than forty-five days prior to such entry to: (1) The surface owner of such tract; (2) to any owner or lessee of coal seams beneath such tract that has filed a declaration pursuant to section thirty-six, article six, chapter twenty-two of this code; and (3) any owner of minerals underlying such tract in the county tax records. The notice shall include a statement that copies of the state Erosion and Sediment Control Manual and the statutes and rules related to oil and gas exploration and production may be obtained from the Secretary, which statement shall include contact information, including the address for a web page on the Secretary's web site, to enable the surface owner to obtain copies from the secretary.

Notice is hereby provided to:

☒ SURFACE OWNER(s)
Name: See Attachment
Address:

Name:
Address:

Name:
Address:

☒ COAL OWNER OR LESSEE
Name: See Attachment
Address:

☒ MINERAL OWNER(s)
Name: See Attachment
Address:

*please attach additional forms if necessary

Notice is hereby given:
Pursuant to West Virginia Code § 22-6A-10(a), notice is hereby given that the undersigned well operator is planning entry to conduct a plat survey on the tract of land as follows:

State:	West Virginia	Approx. Latitude & Longitude:	0569970.9, 4394766.9 (UTM 83)
County:	Monongalia	Public Road Access:	State Route 25/8 or 25/4 or 23/4
District:	Clay	Watershed:	Dunkard Creek
Quadrangle:	Blacksville 7.5'	Generally used farm name:	Campbell

Copies of the state Erosion and Sediment Control Manual and the statutes and rules related to oil and gas exploration and production may be obtained from the Secretary, at the WV Department of Environmental Protection headquarters, located at 601 57th Street, SE, Charleston, WV 25304 (304-926-0450). Copies of such documents or additional information related to horizontal drilling may be obtained from the Secretary by visiting www.dep.wv.gov/oil-and-gas/pages/default.aspx.

Notice is hereby given by:

Well Operator:	Northeast Natural Energy LLC	Address:	707 Virginia Street East, Suite 1200
Telephone:	304-414-7060		Charleston, WV 25301
Email:	hmedley@nne-llc.com	Facsimile:	304-414-7061

Oil and Gas Privacy Notice:
The Office of Oil and Gas processes your personal information, such as name, address and telephone number, as part of our regulatory duties. Your personal information may be disclosed to other State agencies or third parties in the normal course of business or as needed to comply with statutory or regulatory requirements, including Freedom of Information Act requests. Our office will appropriately secure your personal information. If you have any questions about our use or your personal information, please contact DEP's Chief Privacy Officer at depprivacyofficer@wv.gov.

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4706101710

WW-6A3

Campbell Well Pad

Surface Owner(S)

Consolidated Coal Company
CNX Center
1000 Consol Energy Drive
Canonsburg, PA 15317

Ellen F. Campbell
1349 Buckeye Road
Mt. Morris, PA 15349

Coal Owner or Lessee

Consolidated Coal Company
CNX Center
1000 Consol Energy Drive
Canonsburg, PA 15317

Mineral Owner(s)

William and Susan Lemley
830 Sugar Run Road
Waynesburg, PA 15370

Ellen F. Campbell
1349 Buckeye Road
Mt. Morris, PA 15349

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WW-6A4
(1/12)

Operator Well No. Campbell 1H

STATE OF WEST VIRGINIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS
NOTICE OF INTENT TO DRILL

Pursuant to W. Va. Code § 22-6A-16(b), the Notice of Intent to Drill is only required if the notice requirements of W. Va. Code § 22-6A-10(a) have NOT been met or if the Notice of Intent to Drill requirement has NOT been waived in writing by the surface owner.

Notice Time Requirement: Notice shall be provided at least **TEN (10)** days prior to filing a permit application.
Date of Notice: 03/04/2015 **Date Permit Application Filed:** 03/16/2015

Delivery method pursuant to West Virginia Code § 22-6A-16(b)

☐ HAND DELIVERY ☒ CERTIFIED MAIL RETURN RECEIPT REQUESTED

Pursuant to W. Va. Code § 22-6A-16(b), at least ten days prior to filing a permit application, an operator shall, by certified mail return receipt requested or hand delivery, give the surface owner notice of its intent to enter upon the surface owner's land for the purpose of drilling a horizontal well: *Provided,* That notice given pursuant to subsection (a), section ten of this article satisfies the requirements of this subsection as of the date the notice was provided to the surface owner: *Provided, however,* That the notice requirements of this subsection may be waived in writing by the surface owner. The notice, if required, shall include the name, address, telephone number, and if available, facsimile number and electronic mail address of the operator and the operator's authorized representative.

Notice is hereby provided to the SURFACE OWNER(s):

Name: See Attachment
Address:

Name:
Address:

Notice is hereby given:
Pursuant to West Virginia Code § 22-6A-16(b), notice is hereby given that the undersigned well operator has an intent to enter upon the surface owner's land for the purpose of drilling a horizontal well on the tract of land as follows:

State:	West Virginia	UTM NAD 83 Easting:	569970.9
County:	Monongalia	Northing:	4394766.9
District:	Clay	Public Road Access:	State Route 218 (Daybrook Road)
Quadrangle:	Blacksville	Generally used farm name:	Campbell
Watershed:	Dunkard Creek		

This Notice Shall Include:
Pursuant to West Virginia Code § 22-6A-16(b), this notice shall include the name, address, telephone number, and if available, facsimile number and electronic mail address of the operator and the operator's authorized representative. Additional information related to horizontal drilling may be obtained from the Secretary, at the WV Department of Environmental Protection headquarters, located at 601 57th Street, SE, Charleston, WV 25304 (304-926-0450) or by visiting www.dep.wv.gov/oil-and-gas/pages/default.aspx.

Notice is hereby given by:

Well Operator:	Northeast Natural Energy LLC	Authorized Representative:	Hollie Medley, Regulatory Coordinator
Address:	707 Virginia Street East, Suite 1200	Address:	48 Donley Street, Suite 601
	Charleston, WV 25301		Morgantown, WV 26501
Telephone:	304-414-7060	Telephone:	304-241-5752 ext. 7108
Email:	hmedley@nne-llc.com	Email:	hmedley@nne-llc.com
Facsimile:	304-414-7061	Facsimile:	304-241-5972

Oil and Gas Privacy Notice:
The Office of Oil and Gas processes your personal information, such as name, address and telephone number, as part of our regulatory duties. Your personal information may be disclosed to other State agencies or third parties in the normal course of business or as needed to comply with statutory or regulatory requirements, including Freedom of Information Act requests. Our office will appropriately secure your personal information. If you have any questions about our use or your personal information, please contact DEP's Chief Privacy Officer at depprivacyofficer@wv.gov.

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WW - 6A4

Campbell 1H

Surface Owner(S)

Consolidated Coal Company
CNX Center
1000 Consol Energy Drive
Canonsburg, PA 15317

Anna M. Herron
174 Lick Run Road
Fairview, WV 26570

Charles K. Herron
3115 Dillon Avenue
Cheyenne, WY 82001

Henry G. Herron
1112 North Lewellen Street
Wichita, KS 67203

Donald R. Herron
14213 West Sheriac Circle
Wichita, KS 67235

James F. Herron
903 Bluff View Court
Chippewa Falls, WI 54729

Ellen F. Campbell
1349 Buckeye Road
Mt. Morris, PA 15349

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Environmental Protection

4706101710

WW-6A5
(1/12)

Operator Well No. Campbell 1H

STATE OF WEST VIRGINIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS
NOTICE OF PLANNED OPERATION

Notice Time Requirement: notice shall be provided no later than the **filing date of permit application.**
Date of Notice: 03/04/2015 **Date Permit Application Filed:** 03/16/2015

Delivery method pursuant to West Virginia Code § 22-6A-16(c)

☒ CERTIFIED MAIL RETURN RECEIPT REQUESTED ☐ HAND DELIVERY

Pursuant to W. Va. Code § 22-6A-16(c), no later than the date for filing the permit application, an operator shall, by certified mail return receipt requested or hand delivery, give the surface owner whose land will be used for the drilling of a horizontal well notice of the planned operation. The notice required by this subsection shall include: (1) A copy of this code section; (2) The information required to be provided by subsection (b), section ten of this article to a surface owner whose land will be used in conjunction with the drilling of a horizontal well; and (3) A proposed surface use and compensation agreement containing an offer of compensation for damages to the surface affected by oil and gas operations to the extent the damages are compensable under article six-b of this chapter. (d) The notices required by this section shall be given to the surface owner at the address listed in the records of the sheriff at the time of notice.

Notice is hereby provided to the SURFACE OWNER(s)
(at the address listed in the records of the sheriff at the time of notice):

Name: See Attachment
Address:

Name:
Address:

Notice is hereby given:
Pursuant to West Virginia Code § 22-6A-16(c), notice is hereby given that the undersigned well operator has developed a planned operation on the surface owner's land for the purpose of drilling a horizontal well on the tract of land as follows:

State: West Virginia
County: Monongalia
District: Clay
Quadrangle: Blacksville
Watershed: Dunkard Creek

UTM NAD 83 Easting: 569970.9
Northing: 4394766.9
Public Road Access: State Route 218 (Daybrook Road)
Generally used farm name: Campbell

This Notice Shall Include:
Pursuant to West Virginia Code § 22-6A-16(c), this notice shall include: (1)A copy of this code section; (2) The information required to be provided by **W. Va. Code § 22-6A-10(b)** to a surface owner whose land will be used in conjunction with the drilling of a horizontal well; and (3) A proposed surface use and compensation agreement containing an offer of compensation for damages to the surface affected by oil and gas operations to the extent the damages are compensable under article six-b of this chapter. Additional information related to horizontal drilling may be obtained from the Secretary, at the WV Department of Environmental Protection headquarters, located at 601 57th Street, SE, Charleston, WV 25304 (304-926-0450) or by visiting www.dep.wv.gov/oil-and-gas/pages/default.aspx.

Well Operator: Northeast Natural Energy LLC
Telephone: 304-241-5752 ext. 7108
Email: hmedley@nne-llc.com

Address: 707 Virginia Street East, Suite 1200
Charleston, WV 25301
Facsimile: 304-241-5972

Oil and Gas Privacy Notice:
The Office of Oil and Gas processes your personal information, such as name, address and telephone number, as part of our regulatory duties. Your personal information may be disclosed to other State agencies or third parties in the normal course of business or as needed to comply with statutory or regulatory requirements, including Freedom of Information Act requests. Our office will appropriately secure your personal information. If you have any questions about our use or your personal information, please contact DEP's Chief Privacy Officer at depprivacyofficer@wv.gov.

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MAR 17 2015
WV Department of
Environmental Protection

WW - 6A5

4706101710

Campbell 1H

Surface Owner(S)

Consolidated Coal Company
CNX Center
1000 Consol Energy Drive
Canonsburg, PA 15317

Anna M. Herron
174 Lick Run Road
Fairview, WV 26570

Charles K. Herron
3115 Dillon Avenue
Cheyenne, WY 82001

Henry G. Herron
1112 North Lewellen Street
Wichita, KS 67203

Donald R. Herron
14213 West Sheriac Circle
Wichita, KS 67235

James F. Herron
903 Bluff View Court
Chippewa Falls, WI 54729

Ellen F. Campbell
1349 Buckeye Road
Mt. Morris, PA 15349

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MAR 17 2015

WV Department of
Environmental Protection

WW - 6A5

4706101710

Surface Owner(s) (Road and/or Other Disturbance)

Consolidated Coal Company
CNX Center
1000 Consol Energy Drive
Canonsburg, PA 15317

Anna M. Herron
174 Lick Run Road
Fairview, WV 26570

Charles K. Herron
3115 Dillon Avenue
Cheyenne, WY 82001

Henry G. Herron
1112 North Lewellen Street
Wichita, KS 67203

Donald R. Herron
14213 West Sheriac Circle
Wichita, KS 67235

James F. Herron
903 Bluff View Court
Chippewa Falls, WI 54729

Ellen F. Campbell
1349 Buckeye Road
Mt. Morris, PA 15349

Aaron K. Fisher
2524 Paxton Street
Woodbridge, VA 22192

Alex Wilson
2344 Daybrook Road
Fairview, WV 26570

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MAR 17 2015
WV Department of
Environmental Protection

WW - 6A5

4706101710

Arthur and Sandra L. Main
258 Days Run Road
Fairview, WV 26570-9209

Clarence L. and Betty Jo Tennant
72 Dustin Lane
Morgantown, 26501

Coastal Forest Resources Company
P.O. Box 709
Buckhannon, WV 26201

David Allen Simpson
657 Daybrook Road
Fairview, WV 26570

Edna F. Simpson (life estate),
Mr. & Mrs. Donnie E. Simpson
993 Daybrook Road
Fairview, WV 26570

Gary E. Simpson
67 McCoy Road
Fairview, WV 26570

John Basile
P.O. Box 194
Blacksville, WV 26521

Kenneth W. & Clara M. Dean
P.O. Box 27
Blacksville, WV 26521

Nimrod and Christine Dillie McCoy
306 Lick Run Road
Fairview, WV 26570

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Office of Oil and Gas

MAR 17 2015

WV Department of
Environmental Protection

47061017 10

Richard Price
1047 Daybrook Road
Fairview, WV 26570

Robert and Lucy Wilson
P.O. Box 678
Buckeye, OH 43008

William M. and Pamela S. Gardner
310 Harner Road
Bruceton Mills, WV 26525

William J. and Linda S. Solomon
1440 Fairfield Street
Star City, WV 26505

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Office of Oil and Gas

MAR 17 2015

WV Department of
Environmental Protection

4706101710

WW-6AW
(1-12)

API NO. 47-_____-_____
OPERATOR WELL NO. Campbell 1H
Well Pad Name: Campbell

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

VOLUNTARY STATEMENT OF NO OBJECTION

Instructions to Persons Named on Page WW-6A
The well operator named on page WW-6A is applying for a permit from the State of West Virginia to conduct oil or gas well work. Well work permits are valid for twenty-four (24) months. Please contact the listed well operator and the Office of Oil and Gas if you do not own any interest in the listed surface tract.

Comment and Waiver Provisions
Pursuant to West Virginia Code § 22-6A-11(a), all persons described in subsection (b), section ten of this article may file written comments with the secretary as to the location or construction of the applicant's proposed well work within thirty days after the application is filed with the secretary.

Pursuant to West Virginia Code § 22-6A-8(b) No permit may be issued less than thirty days after the filing date of the application for any well work except plugging or replugging; and no permit for plugging or replugging may be issued less than five days after the filing date of the application except a permit for plugging or replugging a dry hole: *Provided,* That if the applicant certifies that all persons entitled to notice of the application under the provisions of subsection (b), section ten of this article have been served in person or by certified mail, return receipt requested, with a copy of the well work application, including the erosion and sediment control plan, if required, and the well plat, and further files written statements of no objection by all such persons, the secretary may issue the well work permit at any time.

VOLUNTARY STATEMENT OF NO OBJECTION

I, Ellen F. Campbell, hereby state that I have read the Instructions to Persons Named on Page WW-6A and the associated provisions listed above, and that I have received copies of a Notice of Application, an Application for a Well Work Permit on Form WW-6A and attachments consisting of pages one (1) through 3, including the erosion and sediment control plan, if required, and the well plat, all for proposed well work on the tract of land as follows:

State:	West Virginia	UTM NAD 83 Easting:	569970.9
County:	Monongalia	Northing:	4394766.9
District:	Clay	Public Road Access:	State Route 218 (Daybrook Road)
Quadrangle:	Blacksville	Generally used farm name:	Campbell
Watershed:	Dunkard Creek		

I further state that I have no objection to the planned work described in these materials, and I have no objection to a permit being issued on those materials.

*Please check the box that applies

- ☒ SURFACE OWNER
- ☐ SURFACE OWNER (Road and/or Other Disturbance)
- ☐ SURFACE OWNER (Impoundments/Pits)
- ☐ COAL OWNER OR LESSEE
- ☐ COAL OPERATOR
- ☐ WATER PURVEYOR
- ☐ OPERATOR OF ANY NATURAL GAS STORAGE FIELD

FOR EXECUTION BY A NATURAL PERSON

Signature: Ellen F. Campbell
Print Name: ELLEN F. CAMPBELL
Date: 3/9/15

FOR EXECUTION BY A CORPORATION, ETC.

Company: _____
By: _____
Its: _____

Signature: _____
Date: _____

Oil and Gas Privacy Notice:
The Office of Oil and Gas processes your personal information, such as name, address and telephone number, as part of our regulatory duties. Your personal information may be disclosed to other State agencies or third parties in the normal course of business or as needed to comply with statutory or regulatory requirements, including Freedom of Information Act requests. Our office will appropriately secure your personal information. If you have any questions about our use or your personal information, please contact DEP's Chief Privacy Officer at depprivacyofficer@wv.gov.

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Office of Oil and Gas
MAR 17 2015
WV Department of
Environmental Protection

4706101710

WW-6AW
(1-12)

API NO. 47-_____-_____
OPERATOR WELL NO. Campbell 1H
Well Pad Name: Campbell

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

VOLUNTARY STATEMENT OF NO OBJECTION

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VOLUNTARY STATEMENT OF NO OBJECTION

I, David A Simpson, hereby state that I have read the Instructions to Persons Named on Page WW-6A and the associated provisions listed above, and that I have received copies of a Notice of Application, an Application for a Well Work Permit on Form WW-6A and attachments consisting of pages one (1) through 3, including the erosion and sediment control plan, if required, and the well plat, all for proposed well work on the tract of land as follows:

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District:	Clay	Public Road Access:	State Route 218 (Daybrook Road)
Quadrangle:	Blacksville	Generally used farm name:	Campbell
Watershed:	Dunkard Creek		

I further state that I have no objection to the planned work described in these materials, and I have no objection to a permit being issued on those materials.

*Please check the box that applies

- ☐ SURFACE OWNER
- ☒ SURFACE OWNER (Road and/or Other Disturbance)
- ☐ SURFACE OWNER (Impoundments/Pits)
- ☐ COAL OWNER OR LESSEE
- ☐ COAL OPERATOR
- ☐ WATER PURVEYOR
- ☐ OPERATOR OF ANY NATURAL GAS STORAGE FIELD

FOR EXECUTION BY A NATURAL PERSON
Signature: David A Simpson
Print Name: DAVID A SIMPSON
Date: 3-6-2015

FOR EXECUTION BY A CORPORATION, ETC.
Company: _____
By: _____
Its: _____

Signature: _____
Date: _____

Oil and Gas Privacy Notice:
The Office of Oil and Gas processes your personal information, such as name, address and telephone number, as part of our regulatory duties. Your personal information may be disclosed to other State agencies or third parties in the normal course of business or as needed to comply with statutory or regulatory requirements, including Freedom of Information Act requests. Our office will appropriately secure your personal information. If you have any questions about our use or your personal information, please contact DEP's Chief Privacy Officer at depprivacyofficer@wv.gov.

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MAR 17 2015
WV Department of
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WW-6AW
(1-12)

API NO. 47-_____-_____
OPERATOR WELL NO. Campbell 1H
Well Pad Name: Campbell

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

VOLUNTARY STATEMENT OF NO OBJECTION

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VOLUNTARY STATEMENT OF NO OBJECTION

I, Linda S. Solomon W J Solomon, hereby state that I have read the Instructions to Persons Named on Page WW-6A and the associated provisions listed above, and that I have received copies of a Notice of Application, an Application for a Well Work Permit on Form WW-6A and attachments consisting of pages one (1) through 3, including the erosion and sediment control plan, if required, and the well plat, all for proposed well work on the tract of land as follows:

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District:	Clay	Public Road Access:	State Route 218 (Daybrook Road)
Quadrangle:	Blacksville	Generally used farm name:	Campbell
Watershed:	Dunkard Creek		

I further state that I have no objection to the planned work described in these materials, and I have no objection to a permit being issued on those materials.

*Please check the box that applies

- ☐ SURFACE OWNER
- ☒ SURFACE OWNER (Road and/or Other Disturbance)
- ☐ SURFACE OWNER (Impoundments/Pits)
- ☐ COAL OWNER OR LESSEE
- ☐ COAL OPERATOR
- ☐ WATER PURVEYOR
- ☐ OPERATOR OF ANY NATURAL GAS STORAGE FIELD

FOR EXECUTION BY A NATURAL PERSON
Signature: Linda S. Solomon W J Solomon
Print Name: W J Solomon Linda S. Solomon
Date: 03-13-15

FOR EXECUTION BY A CORPORATION, ETC.
Company: _____
By: _____
Its: _____
Signature: _____
Date: _____

Oil and Gas Privacy Notice:
The Office of Oil and Gas processes your personal information, such as name, address and telephone number, as part of our regulatory duties. Your personal information may be disclosed to other State agencies or third parties in the normal course of business or as needed to comply with statutory or regulatory requirements, including Freedom of Information Act requests. Our office will appropriately secure your personal information. If you have any questions about our use or your personal information, please contact DEP's Chief Privacy Officer at depprivacyofficer@wv.gov.

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WV Department of
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WEST VIRGINIA DEPARTMENT OF TRANSPORTATION

Division of Highways

1900 Kanawha Boulevard East • Building Five • Room 110
Charleston, West Virginia 25305-0430 • (304) 558-3505

Earl Ray Tomblin
Governor

Paul A. Mattox, Jr., P. E.
Secretary of Transportation/
Commissioner of Highways

April 24, 2014

James A. Martin, Chief
Office of Oil and Gas
Department of Environmental Protection
601 57th Street, SE
Charleston, WV 25304

Subject: DOH Permit for the Campbell Pad, Monongalia County
Campbell 1H

Dear Dr. Martin,

Northeast Natural Energy LLC has applied from permits #04-2014-0505 & 04-2014-0507 to access the State Road for a well site located off of West Virginia Route 218.

The operator has signed a DISTRICT WIDE OIL AND GAS ROAD MAINTENANCE BONDING AGREEMENT and provided the required Bond. This operator is currently in compliance with the DOH OIL AND GAS POLICY dated January 3, 2012.

Very Truly Yours,

Gary K. Clayton

Gary K. Clayton, P.E.
Regional Maintenance Engineer
Central Office O&G Coordinator

Cc: Hollie Medley
Northeast Natural Energy Corporation
CH, OM, D-4
File

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MAR 17 2015

WV Department of
Environmental Protection

Planned Additives to be used in Fracturing Stimulations

Trade Name	Purpose	Ingredients	Chemical Abstract Service Number (CAS#)
Water	Carrier	Water	7732-18-5
HCl, 10.1-15%	Acidizing	Hydrochloric Acid Water	7647-01-0 7732-18-5
Alpha 1427	Biocide	Alkyl Dimethyl Benzyl Ammonium Chloride (C12-16) Ethanol Glutaraldehyde Quaternary Ammonium Chloride Water	68424-85-1 64-17-5 111-30-8 7173-51-5 7732-18-5
Enzyme G-NE	Breaker	Hemicellulase Enzyme Concentrate Water	9025-56-3 7732-18-5
CI-14	Corrosion Inhibitor	Fatty Acids Methanol Olefin Polyoxyalkylenes Propargyl Alcohol	N.A. 67-56-1 N.A. N.A. 107-19-7
FRW-18	Friction Reducer	Hydrotreated Light Distillate	64742-47-8
GW-3LDF	Gelling Agent	Guar Gum Petroleum Distillate Blend	9000-30-0 CBI
Ferrotrol 300L	Iron Control	Citric Acid	77-92-9
Sand, White, 40/70	Proppant	Crystalline Silica (Quartz)	14808-60-7
Sand, White, 100 mesh	Proppant	Crystalline Silica (Quartz)	14808-60-7
Scaletrol 720	Scale Inhibitor	Diethylene Glycol	111-46-6

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MAR 17 2015
WV Department of
Environmental Protection

4706101710

Exhibit 1

APPROVED
WVDEP OOG
7/11/2014

CAMPBELL WELL PAD
CLAY DISTRICT, MONONGALIA COUNTY, WV
APRIL 2014

API#6101677

WEST VIRGINIA 811

TWO WORKING DAYS PRIOR TO EXCAVATION, THE CONTRACTOR MUST CONTACT THE WV ONE CALL SYSTEM, INC., 1-800-245-4848
(WV ONE CALL TICKET#1404402841)

OWNER

northeast
NATURAL ENERGY
NORTHEAST NATURAL ENERGY, LLC
707 VIRGINIA STREET SUITE 1200
CHARLESTON, WV 253 01

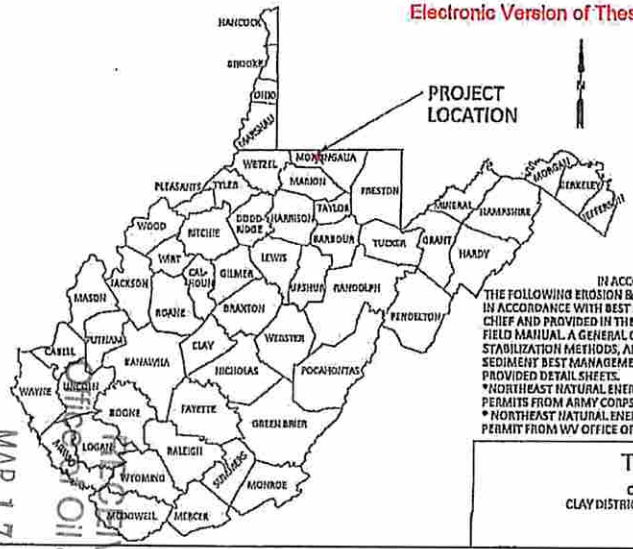
SHEET INDEX
1. TITLE SHEET
2-3. EVACUATION ROUTE/PREVAILING WIND
4. E&S CONTROL LAYOUT OVERVIEW
5-15. E&S CONTROL LAYOUT
16. E&S CONTROL AND SITE PLAN OVERVIEW
17-27. E&S CONTROL AND SITE PLAN
28. WELL PAD CROSS-SECTIONS
29. COASTAL ACCESS ROAD PROFILE
30. COASTAL ACCESS ROAD AND CAMPBELL ACCESS ROAD PROFILES
31. CAMPBELL ACCESS ROAD PROFILE
32-37. COASTAL ACCESS ROAD CROSS-SECTIONS
38-43. CAMPBELL ACCESS ROAD CROSS-SECTIONS
44-46. DETAIL SHEET
47. JERSEY BARRIER INSTALLATION PLAN
48. CROSS-SECTIONS C-C', D-D' & E-E'
49. RECLAMATION PLAN OVERVIEW
50-60. RECLAMATION PLAN

TOTAL DISTURBED AREA: 72.1 AC.
ROAD DISTURBED AREA: 59.4 AC.
WELL PAD DISTURBED AREA: 12.7 AC.

PLANS PREPARED BY:
BOORD BENCHEK & ASSOCIATES, INC.
ENGINEERING,SURVEYING, CONSTRUCTION AND MINING SERVICES
SOUTHPOINTE, PA 15317 PHONE: 724-746-1055

4-10-14
ANDREW BENCHEK
P.E.

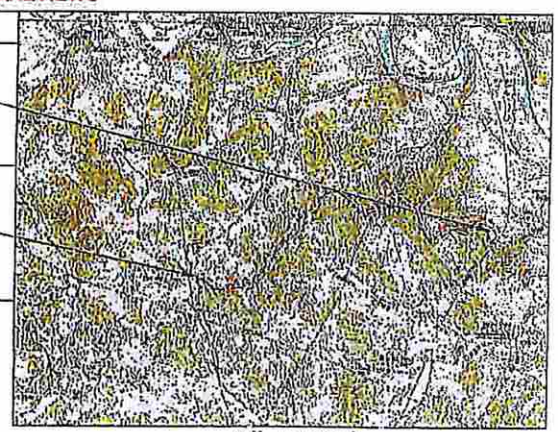
Electronic Version of These Plans May Be Viewed at: Q\OIL GAS\SAY FILES\REVIEWS



PROJECT LOCATION

IN ACCORDANCE WITH WV 35 CSR 8
THE FOLLOWING EROSION & SEDIMENT CONTROL PLAN HAS BEEN DESIGNED IN ACCORDANCE WITH BEST MANAGEMENT PRACTICES ESTABLISHED BY THE CHIEF AND PROVIDED IN THE OFFICE'S EROSION AND SEDIMENT CONTROL FIELD MANUAL. A GENERAL CONSTRUCTION SEQUENCE, DESCRIPTION OF STABILIZATION METHODS, AND DETAILS & SPECIFICATIONS FOR EROSION & SEDIMENT BEST MANAGEMENT PRACTICES HAVE BEEN INCLUDED IN THE PROVIDED DETAIL SHEETS.
*NORTHEAST NATURAL ENERGY, LLC. TO OBTAIN NWP-39 AND NWP-14 PERMITS FROM ARMY CORPS OF ENGINEERS AS NECESSARY.
* NORTHEAST NATURAL ENERGY, LLC. TO OBTAIN STREAM ENCROACHMENT PERMIT FROM WV OFFICE OF LAND AND STREAMS AS NECESSARY.

COORDINATES	
CENTER OF WELLS (NAD 83)	LAT: 39° 41' 59.6" LONG: 80° 11' 01.7" (NAD 27) LAT: 39° 41' 59.0" LONG: 80° 11' 02.2"
SITE ENTRANCE (NAD 83)	LAT: 39° 41' 42.7" LONG: 80° 13' 22.7" (NAD 27) LAT: 39° 41' 41.9" LONG: 80° 13' 23.1"



1"=2000'

TITLE SHEET	SHEET
CAMPBELL WELL PAD CLAY DISTRICT, MONONGALIA COUNTY, WV	1 OF 60

RECEIVED
Office of Oil and Gas
MAR 17 2015
WV Department of
Environmental Protection

MJK
11/17/2014

CAMPBELL WELL PAD
CLAY DISTRICT, MONONGALIA COUNTY, WV
ADDENDUM #1
SEPTEMBER 2014

WEST VIRGINIA 811

TWO WORKING DAYS PRIOR TO EXCAVATION, THE CONTRACTOR MUST CONTACT THE WV ONE CALL SYSTEM, INC., 1-800-245-4848
(WV ONE CALL TICKET#1404402841)

OWNER

northeast
NATURAL ENERGY

NORTHEAST NATURAL ENERGY, LLC
707 VIRGINIA STREET SUITE 1200
CHARLESTON, WV 253 01

APPROVED
WVDEP OOG
10/15/2014

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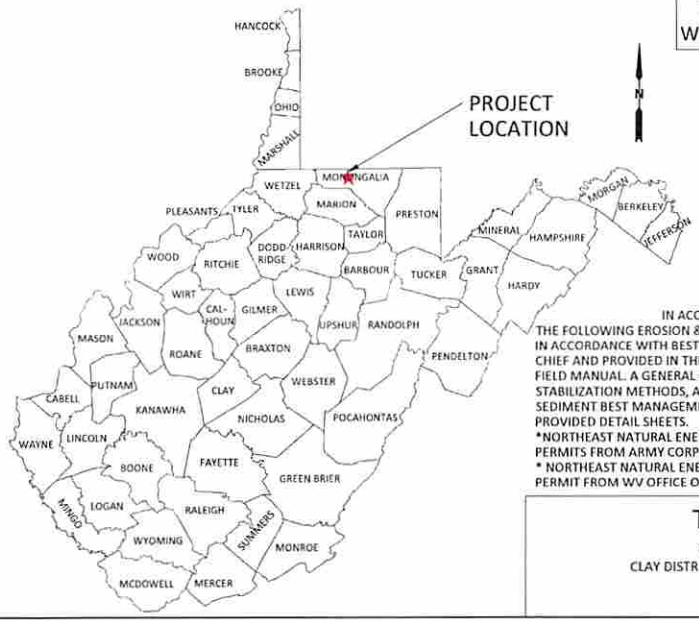
PLANS PREPARED BY:
BOORD BENCHEK & ASSOCIATES, INC.
ENGINEERING,SURVEYING, CONSTRUCTION AND MINING SERVICES
SOUTHPOINTE, PA 15317 PHONE: 724-746-1055

9-17-14
ANDREW BENCHEK
P.E.

TOTAL DISTURBED AREA: 72.1 AC.
ROAD DISTURBED AREA: 59.4 AC.
WELL PAD DISTURBED AREA: 12.7 AC.



API NUMBERS
Campbell 3H - 47-06101677
Campbell 5H - 47-06101678

COORDINATES

CENTER OF WELLS
(NAD 83)
LAT: 39° 41' 59.6"
LONG: 80° 11' 01.7"
(NAD 27)
LAT: 39° 41' 59.0"
LONG: 80° 11' 02.2"

SITE ENTRANCE
(NAD 83)
LAT: 39° 41' 42.7"
LONG: 80° 13' 22.7"
(NAD 27)
LAT: 39° 41' 41.9"
LONG: 80° 13' 23.1"

1"=2000'

IN ACCORDANCE WITH WV 35 CSR 8
THE FOLLOWING EROSION & SEDIMENT CONTROL PLAN HAS BEEN DESIGNED IN ACCORDANCE WITH BEST MANAGEMENT PRACTICES ESTABLISHED BY THE CHIEF AND PROVIDED IN THE OFFICE'S EROSION AND SEDIMENT CONTROL FIELD MANUAL. A GENERAL CONSTRUCTION SEQUENCE, DESCRIPTION OF STABILIZATION METHODS, AND DETAILS & SPECIFICATIONS FOR EROSION & SEDIMENT BEST MANAGEMENT PRACTICES HAVE BEEN INCLUDED IN THE PROVIDED DETAIL SHEETS.
*NORTHEAST NATURAL ENERGY, LLC. TO OBTAIN NWP-39 AND NWP-14 PERMITS FROM ARMY CORPS OF ENGINEERS AS NECESSARY.
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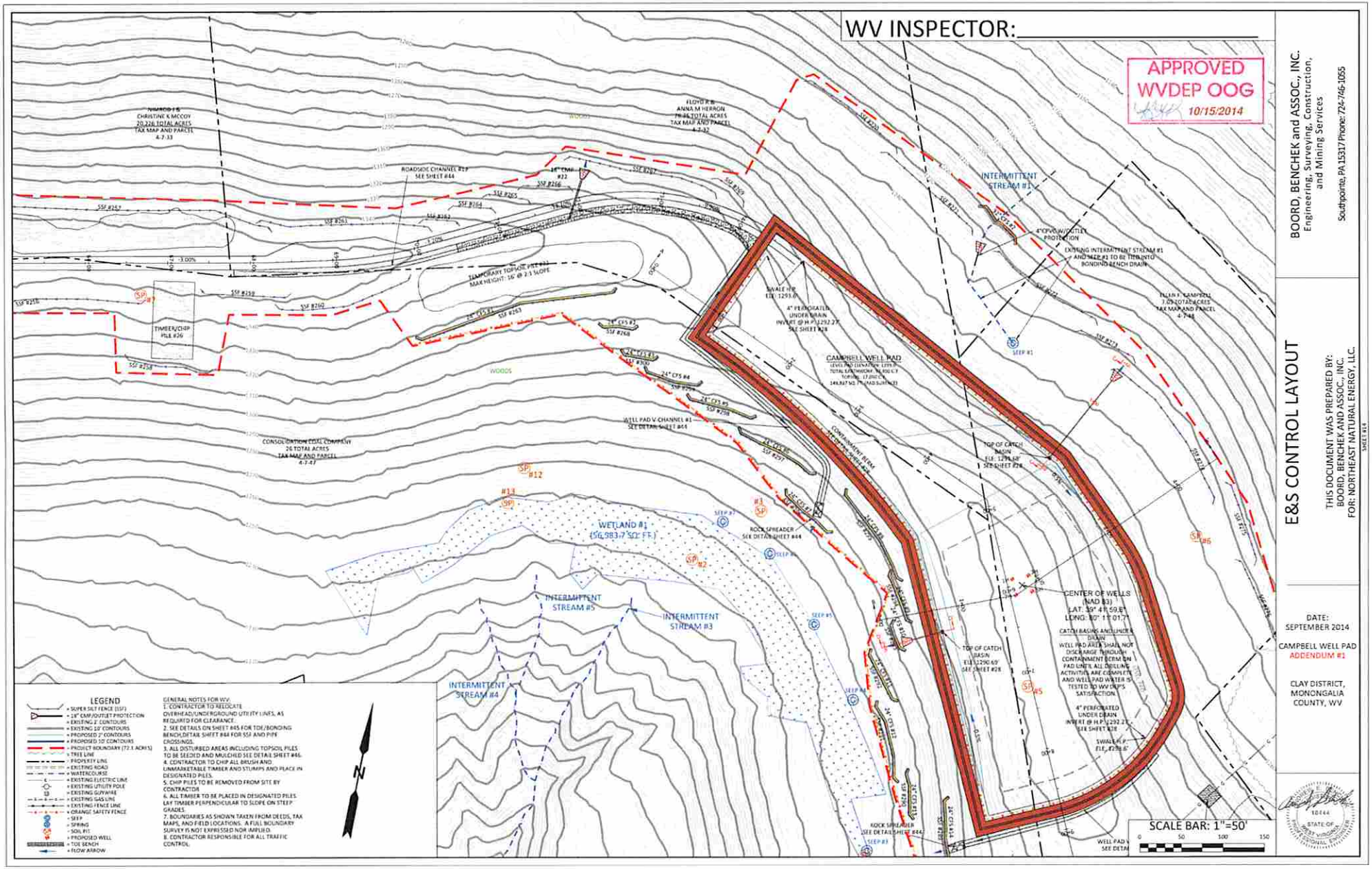
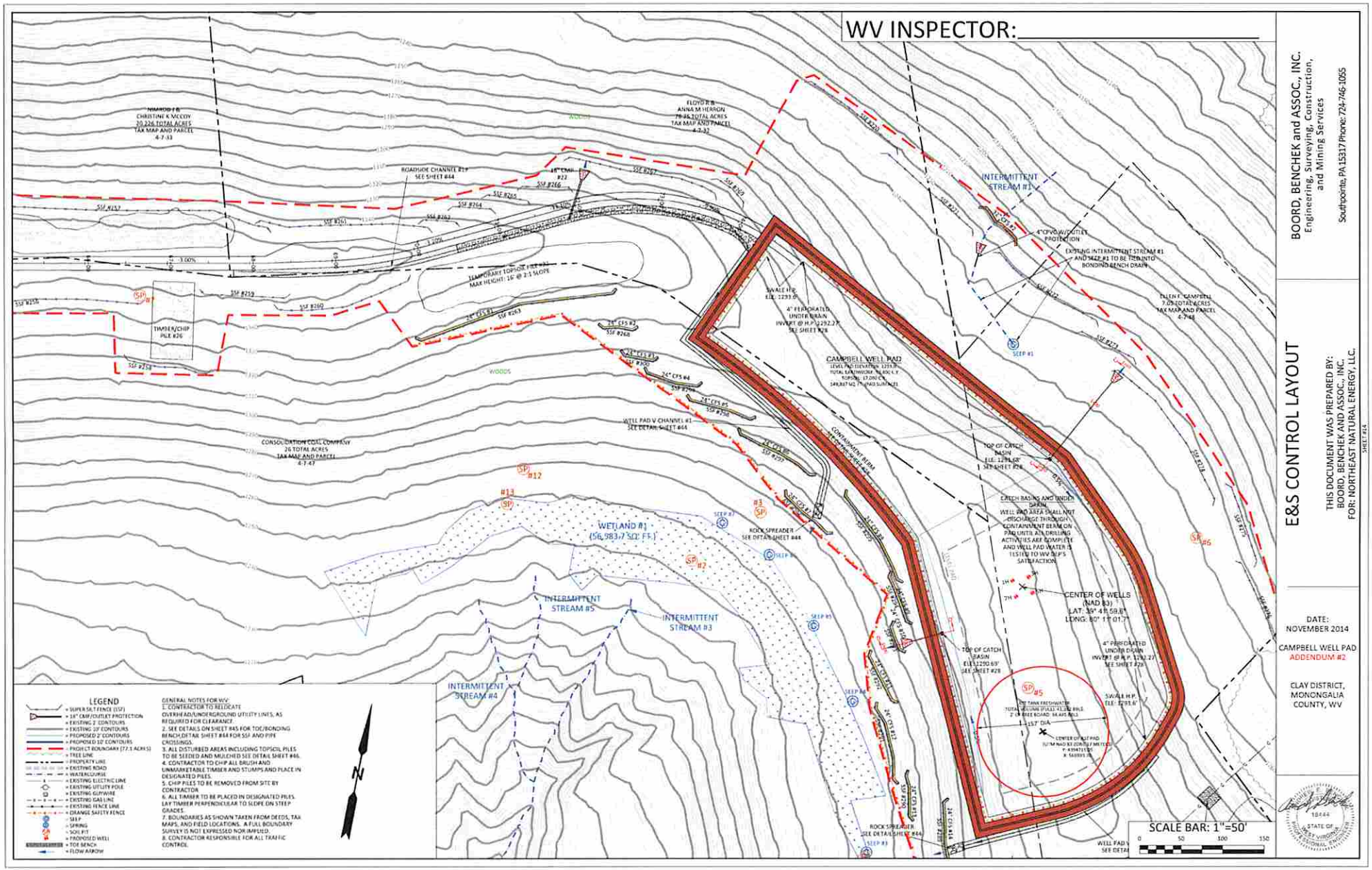
TITLE SHEET	SHEET
CAMPBELL WELL PAD CLAY DISTRICT, MONONGALIA COUNTY, WV	1 OF 60

4706101710


WV INSPECTOR:_____
APPROVED
WVDEP OOG
10/15/2014
CHRISTINE K MCCOY
20.226 TOTAL ACRES
TAX MAP AND PARCEL
4-7-33
FLOYD R &
ANNA M HERRON
79.46 TOTAL ACRES
TAX MAP AND PARCEL
4-7-32
ROADSIDE CHANNEL #19
SEE SHEET #44
16" CMP #22
INTERMITTENT STREAM #1
4"CPVC W/OUTLET PROTECTION
EXISTING INTERMITTENT STREAM #1 AND SEEP #1 TO BE TIED INTO BONDING BENCH DRAIN
ALLAN F. CAMPBELL
7.05 TOTAL ACRES
TAX MAP AND PARCEL
4-7-48
TEMPORARY TOPSOIL PILE #25
MAX HEIGHT: 16' @ 2:1 SLOPE
TIMBER/CHIP PILE #26
SWALE H-8
ELE. 1293.0'
4" PERFORATED UNDER DRAIN
INVERT @ H.P. 1292.27'
SEE SHEET #28
CAMPBELL WELL PAD
LEVEL PAD ELEVATION: 1295.5'
TOTAL EARTHWORK: 94,400 C.Y.
TOPSOIL: 17,050 C.Y.
149,867 SQ. FT. (PAD SURFACE)
WELL PAD V-CHANNEL #1
SEE DETAIL SHEET #44
CONSOLIDATION COAL COMPANY
26 TOTAL ACRES
TAX MAP AND PARCEL
4-7-47
WETLAND #1
(56,983.7 SQ. FT.)
ROCK SPREADER
SEE DETAIL SHEET #44
INTERMITTENT STREAM #5
INTERMITTENT STREAM #3
INTERMITTENT STREAM #4
TOP OF CATCH BASIN
ELE. 1295.18'
SEE SHEET #28
CENTER OF WELLS
(NAD 83)
LAT. 39° 41' 59.6"
LONG. 80° 11' 01.7"
CATCH BASINS AND UNDER DRAIN
WELL PAD AREA SHALL NOT DISCHARGE THROUGH CONTAINMENT BERM ON PAD UNTIL ALL DRILLING ACTIVITIES ARE COMPLETE AND WELL PAD WATER IS TESTED TO WV DEP'S SATISFACTION
TOP OF CATCH BASIN
ELE. 1290.69'
SEE SHEET #28
4" PERFORATED UNDER DRAIN
INVERT @ H.P. 1292.27'
SEE SHEET #28
SWALE H-7
ELE. 1288.6'
SCALE BAR: 1"=50'
0 50 100 150
LEGEND
SUPER SILT FENCE (SSF)
18" CMP/OUTLET PROTECTION
EXISTING 2' CONTOURS
EXISTING 10' CONTOURS
PROPOSED 2' CONTOURS
PROPOSED 10' CONTOURS
PROJECT BOUNDARY (72.1 ACRES)
TREE LINE
PROPERTY LINE
EXISTING ROAD
WATERCOURSE
EXISTING ELECTRIC LINE
EXISTING UTILITY POLE
EXISTING GUYWIRE
EXISTING GAS LINE
EXISTING FENCE LINE
ORANGE SAFETY FENCE
SEEP
SPRING
SOIL PIT
PROPOSED WELL
TOE BENCH
FLOW ARROW
GENERAL NOTES FOR WV:
1. CONTRACTOR TO RELOCATE OVERHEAD/UNDERGROUND UTILITY LINES, AS REQUIRED FOR CLEARANCE.
2. SEE DETAILS ON SHEET #45 FOR TOE/BONDING BENCH,DETAIL SHEET #44 FOR SSF AND PIPE CROSSINGS.
3. ALL DISTURBED AREAS INCLUDING TOPSOIL PILES TO BE SEEDED AND MULCHED SEE DETAIL SHEET #46.
4. CONTRACTOR TO CHIP ALL BRUSH AND UNMARKETABLE TIMBER AND STUMPS AND PLACE IN DESIGNATED PILES.
5. CHIP PILES TO BE REMOVED FROM SITE BY CONTRACTOR
6. ALL TIMBER TO BE PLACED IN DESIGNATED PILES. LAY TIMBER PERPENDICULAR TO SLOPE ON STEEP GRADES
7. BOUNDARIES AS SHOWN TAKEN FROM DEEDS, TAX MAPS, AND FIELD LOCATIONS. A FULL BOUNDARY SURVEY IS NOT EXPRESSED NOR IMPLIED.
8. CONTRACTOR RESPONSIBLE FOR ALL TRAFFIC CONTROL.
N
BOORD, BENCHEK and ASSOC., INC.
Engineering, Surveying, Construction, and Mining Services
Southpointe, PA 15317 Phone: 724-746-1055
E&S CONTROL LAYOUT
THIS DOCUMENT WAS PREPARED BY: BOORD, BENCHEK AND ASSOC., INC.
FOR: NORTHEAST NATURAL ENERGY, LLC.
SHEET #14
DATE:
SEPTEMBER 2014
CAMPBELL WELL PAD
ADDENDUM #1
CLAY DISTRICT,
MONONGALIA
COUNTY, WV
10444
STATE OF WEST VIRGINIA
PROFESSIONAL ENGINEER

4706101710

WV INSPECTOR:_____



LEGEND

- SUPER SILT FENCE (SSF)
- 18" CMP/OUTLET PROTECTION
- EXISTING 2' CONTOURS
- EXISTING 10' CONTOURS
- PROPOSED 2' CONTOURS
- PROPOSED 10' CONTOURS
- PROJECT BOUNDARY (77.1 ACRES)
- TREE LINE
- PROPERTY LINE
- EXISTING ROAD
- WATERCOURSE
- EXISTING ELECTRIC LINE
- EXISTING UTILITY POLE
- EXISTING GUYWIRE
- EXISTING GAS LINE
- EXISTING FENCE LINE
- ORANGE SAFETY FENCE
- SEEP
- SPRING
- SOIL PIT
- PROPOSED WELL
- TOE BENCH
- FLOW ARROW

GENERAL NOTES FOR WV:

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E&S CONTROL LAYOUT

THIS DOCUMENT WAS PREPARED BY:
BOORD, BENCHEK AND ASSOC., INC.
FOR: NORTHEAST NATURAL ENERGY, LLC.

SHEET #14

DATE:
NOVEMBER 2014

CAMPBELL WELL PAD
ADDENDUM #2

CLAY DISTRICT,
MONONGALIA
COUNTY, WV

18444
STATE OF WEST VIRGINIA
PROFESSIONAL ENGINEER

4706101710