



west virginia department of environmental protection

Office of Oil and Gas
601 57th Street, S.E.
Charleston, WV 25304
(304) 926-0450
fax: (304) 926-0452

Jim Justice , Governor
Austin Caperton , Cabinet Secretary
www.dep.wv.gov

Friday, December 01, 2017
WELL WORK PERMIT
Horizontal 6A / New Drill

NORTHEAST NATURAL ENERGY LLC
707 VIRGINIA STREET EAST
STE 1200
CHARLESTON, WV 25301

Re: Permit approval for MEPCO 11 H
47-061-01792-00-00

This well work permit 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 any additional specific 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 of 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.

Per 35 CSR 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- 0450.

James A. Martin
Chief

Operator's Well Number: MEPCO 11 H
Farm Name: MEPCO LLC
U.S. WELL NUMBER: 47-061-01792-00-00
Horizontal 6A / New Drill
Date Issued: 12/1/2017

Promoting a healthy environment.

12/01/2017

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 one hundred (100) 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. 24 hours prior to the initiation of the completion process the operator shall notify the Chief or his designee.
8. During the completion process the operator shall monitor annular pressures and report any anomaly noticed to the chief or his designee immediately.
9. 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.
10. 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.

PERMIT CONDITIONS

11. The operator shall provide to the Office of Oil and Gas the dates of each of the following within 30 days of their occurrence: completion of construction of the well pad, commencement of drilling, cessation of drilling, completion of any other permitted well work, and completion of the well. Such notice shall be provided by sending an email to DEPOOGNotify@wv.gov.

WW-6B
(04/15)

API NO. 47- _____
OPERATOR WELL NO. MEPCO 11H
Well Pad Name: MEPCO

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 CLAY BLACKSVILLE
Operator ID County District Quadrangle

2) Operator's Well Number: MEPCO 11H Well Pad Name: MEPCO

3) Farm Name/Surface Owner: MEPCO LLC Public Road Access: CR 29/4

4) Elevation, current ground: 1448.16' Elevation, proposed post-construction: 1424.00'

5) Well Type (a) Gas Oil _____ Underground Storage _____

Other _____

(b) If Gas Shallow Deep _____

Horizontal

6) Existing Pad: Yes or No NO *MSK 10/5/2017*

7) Proposed Target Formation(s), Depth(s), Anticipated Thickness and Expected Pressure(s):
Marcellus, 8,222', 103', 3600 PSI

8) Proposed Total Vertical Depth: 8,222'

9) Formation at Total Vertical Depth: Marcellus

10) Proposed Total Measured Depth: 18,893.51'

11) Proposed Horizontal Leg Length: 9,331'

12) Approximate Fresh Water Strata Depths: 50', 1,307'

13) Method to Determine Fresh Water Depths: DRILLERS LOG FROM OFFSET WELLS

14) Approximate Saltwater Depths: 1,947', 2,589'

15) Approximate Coal Seam Depths: 662', 1,305'

16) Approximate Depth to Possible Void (coal mine, karst, other): NA

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: _____
Depth: _____
Seam: _____
Owner: _____

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18) CASING AND TUBING PROGRAM

TYPE	Size (in)	New or Used	Grade	Weight per ft. (lb/ft)	FOOTAGE: For Drilling (ft)	INTERVALS: Left in Well (ft)	CEMENT: Fill-up (Cu. Ft.)/CTS
Conductor	24"	New	NA	94.71	40'	40'	GTS
Fresh Water	13-3/8"	New	J-55	54.5	1,423'	1,400'	CTS
Coal							
Intermediate	9-5/8"	New	J-55	40	2,680'	2,650'	CTS
Production	5-1/2"	New	P-110	20	18,893.51'	18,863.51'	4,444 Cu. Ft.
Tubing	2-7/8"	New	N-80	6.5	NA	8,500'	NA
Liners							

MJK 10/5/2017

TYPE	Size (in)	Wellbore Diameter (in)	Wall Thickness (in)	Burst Pressure (psi)	Anticipated Max. Internal Pressure (psi)	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	2,000	Class A	1.23
Coal							
Intermediate	9-5/8"	12 1/4"	.395"	3,950	3,000	Class A	1.3
Production	5-1/2"	8 3/4"	.361"	12,530	9,700	50:50 Poz	1.21
Tubing	2-7/8"	NA	.217"	10,570	3,600	NA	NA
Liners							

PACKERS

Kind:				
Sizes:				
Depths Set:				

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WW-6B
(10/14)

API NO. 47- **4706101792**
OPERATOR WELL NO. MEPCO 11H
Well Pad Name: MEPCO

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 5,700.00' TVD/MD. The well will then be horizontally drilled on synthetic based mud from the KOP to approximately 8,222' TVD / 18,893.51' 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): 12.8

22) Area to be disturbed for well pad only, less access road (acres): 11

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.

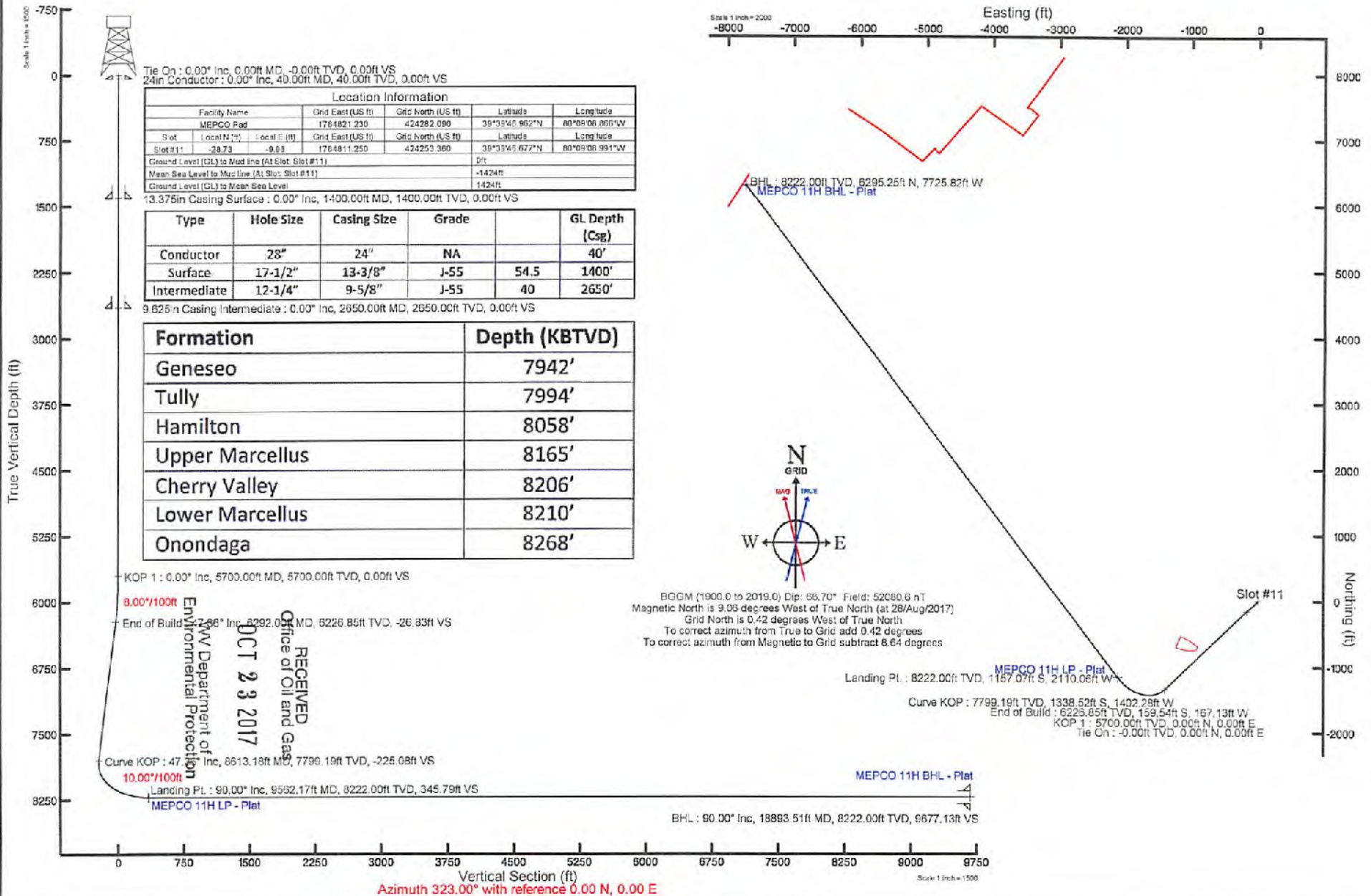
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NORTHEAST NATURAL ENERGY, LLC

Location: Monongalia County, WV
 Field: Monongalia
 Facility: MEPCO Pad

Slot: Slot #11
 Well: MEPCO LLC 11H
 Wellbore: MEPCO LLC 11H PWB



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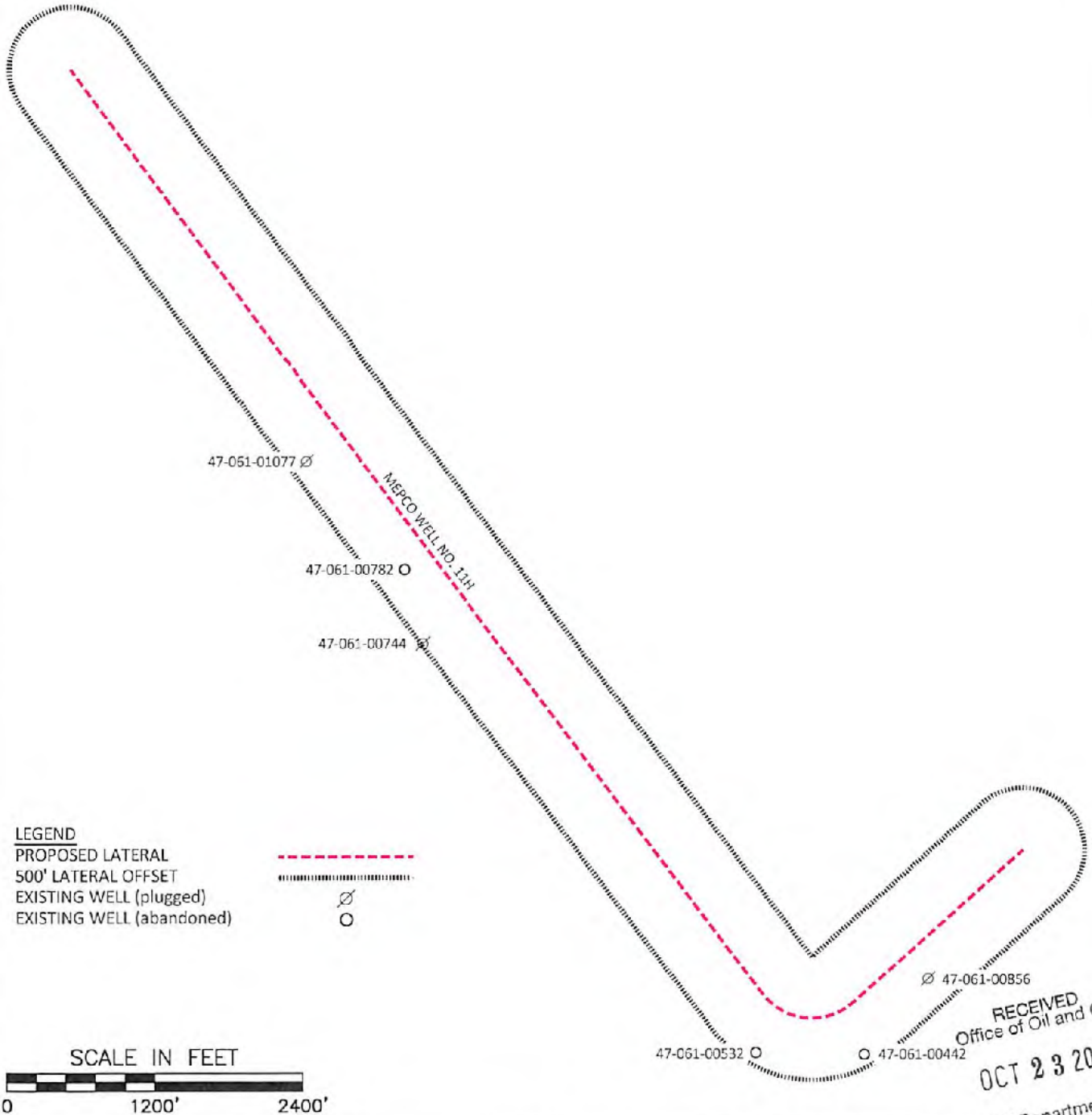
4706101792

AREA OF REVIEW
MEPCO WELL 11H

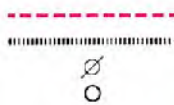
UNIT (API NUMBER)	WELL NAME	WELL NUMBER	OPERATOR	WV DEP STATUS	TD	GROUND ELEVATION	COMMENTS
4706100856	J.W. WRIGHT	WRIGHT #2	CONSOLIDATION COAL COMPANY	PLUGGED	UNKNOWN	1128'	PLUGGED 12-14-2013
4706100442	J.W. WRIGHT	WRIGHT #9	CONSOLIDATION COAL COMPANY	ABANDONED	2251.50'	1367.67'	PLUGGING PERMIT SUBMITTED 07-07-2014
4706100532	N TENNANT #4	4	CONSOLIDATION COAL COMPANY	ABANDONED	2134'	1179'	PLUGGING PERMIT SUBMITTED 08-25-2014
4706100744	UNKNOWN	M3-67	CONSOLIDATION COAL COMPANY	PLUGGED	UNKNOWN	1042.90'	PLUGGED 02-28-1984
4706100782	UNKNOWN	1	NOUMENON CORPORATION	ABANDONED	UNKNOWN	979.02'	PLUGGING PERMIT 06-17-2016
4706101077	UNKNOWN	M3-237	CONSOLIDATION COAL COMPANY	PLUGGED	UNKNOWN	1116.57'	PLUGGED 06-23-1992

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P:\2015\150-445\Survey\Draw\Well Plats\FINAL PLATS\AREA OF REVIEW\NORTH\150445-SRV-MEPCO WELL 11H AOR.dwg\MEPCO WELL 11H AOR.dwg LS:(9/21/2017 - Imoody) - LP: 9/21/2017 2:51 PM



LEGEND
 PROPOSED LATERAL
 500' LATERAL OFFSET
 EXISTING WELL (plugged)
 EXISTING WELL (abandoned)



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Civil & Environmental Consultants, Inc.
 600 Marketplace Ave · Suite 200 · Bridgeport, WV 26330
 Ph: 304.933.3119 · Fax: 304.933.3327
 www.cecinc.com

NORTHEAST NATURAL ENERGY LLC
 MEPCO LLC
 CLAY DISTRICT, MONONGALIA COUNTY
 WEST VIRGINIA
 MEPCO WELL NO. 11H
 AREA OF REVIEW

DRAWN BY: LDM	CHECKED BY: DMY	APPROVED BY: DEM	FIGURE NO.:
DATE: SEPTEMBER 21, 2017	DWG SCALE: 1"=1,200'	PROJECT NO: 150-445	12/01/2017

Northeast Natural Energy LLC Mine Contingency Plan



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 blowby line and/or flare.

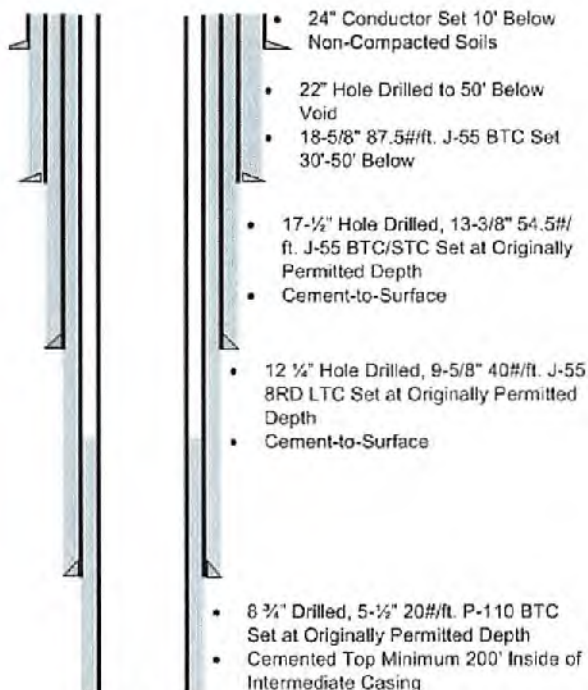
All casings programs submitted to the state incorporate the use of a 24" conductor over the previously used 20" that has long been the industry standard for a typical Marcellus design. The use of 24" conductor casing allows the use of a 22" bit to ream the surface hole, and drill 50' below the void to 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.

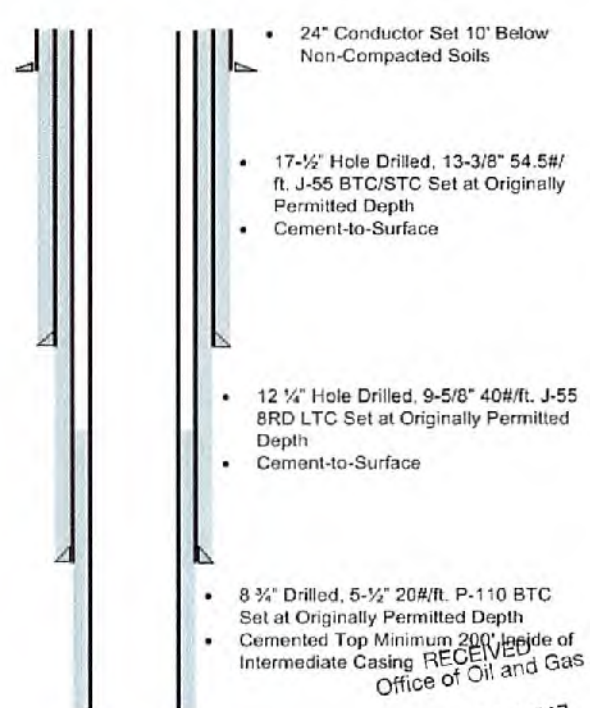
With the use of these string sizes and techniques, the surface and intermediate strings do not need to be altered. After a proper WOC time, the surface section of the well would continue to be drilled with a 17-1/2" bit and the 13-3/8" 54.50#/ft freshwater casing would be set at the originally permitted 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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11/11 - IC

12/01/2017

4706101792

WW-9
(4/16)

API Number 47 - _____ - _____

Operator's Well No. MEPCO 11H

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 (HUUC 10) Jakes Run of Dunkard Creek Quadrangle Blacksville

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: N/A

Will a synthetic liner be used in the pit? Yes No If so, what ml.? N/A

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, Please 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 - Please 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? Please 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 M. Medley
Company Official (Typed Name) Hollie M. Medley
Company Official Title Regulatory Manager

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WV Department of Environmental Protection

Subscribed and sworn before me this 4th day of October, 20 17
Christopher Allen Patterson Notary Public

My commission expires 6/18/2018



Northeast Natural Energy LLC

Proposed Revegetation Treatment: Acres Disturbed 12.80 Prevegetation pH 5-7

Lime 2 Tons/acre or to correct to pH 7

Fertilizer type 19-19-19

Fertilizer amount 300 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 Perennial Rye	16	Tetraploid Perennial Rye	16
Timothy 15	Annual Rye 15	Timothy 15	Annual Rye 15

Attach:

Maps(s) of road, location, pit and proposed area for land application (unless engineered plans including this info have been provided). If water from the pit will be land applied, include dimensions (L x W x D) of the pit, and dimensions (L x W), and area in acreage, of the land application area.

Photocopied section of involved 7.5' topographic sheet.

Plan Approved by: Mary J. Krutwald

Comments: _____

Title: Inspector

Date: 10/5/2017

Field Reviewed? () 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 MEPCO 11H 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.

MEPCO 11H 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

MEPCO 11H

SITE SAFETY PLAN

October 4, 2017

James J. Kuntz
10/5/2017

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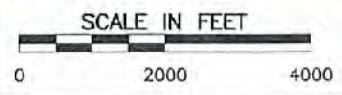
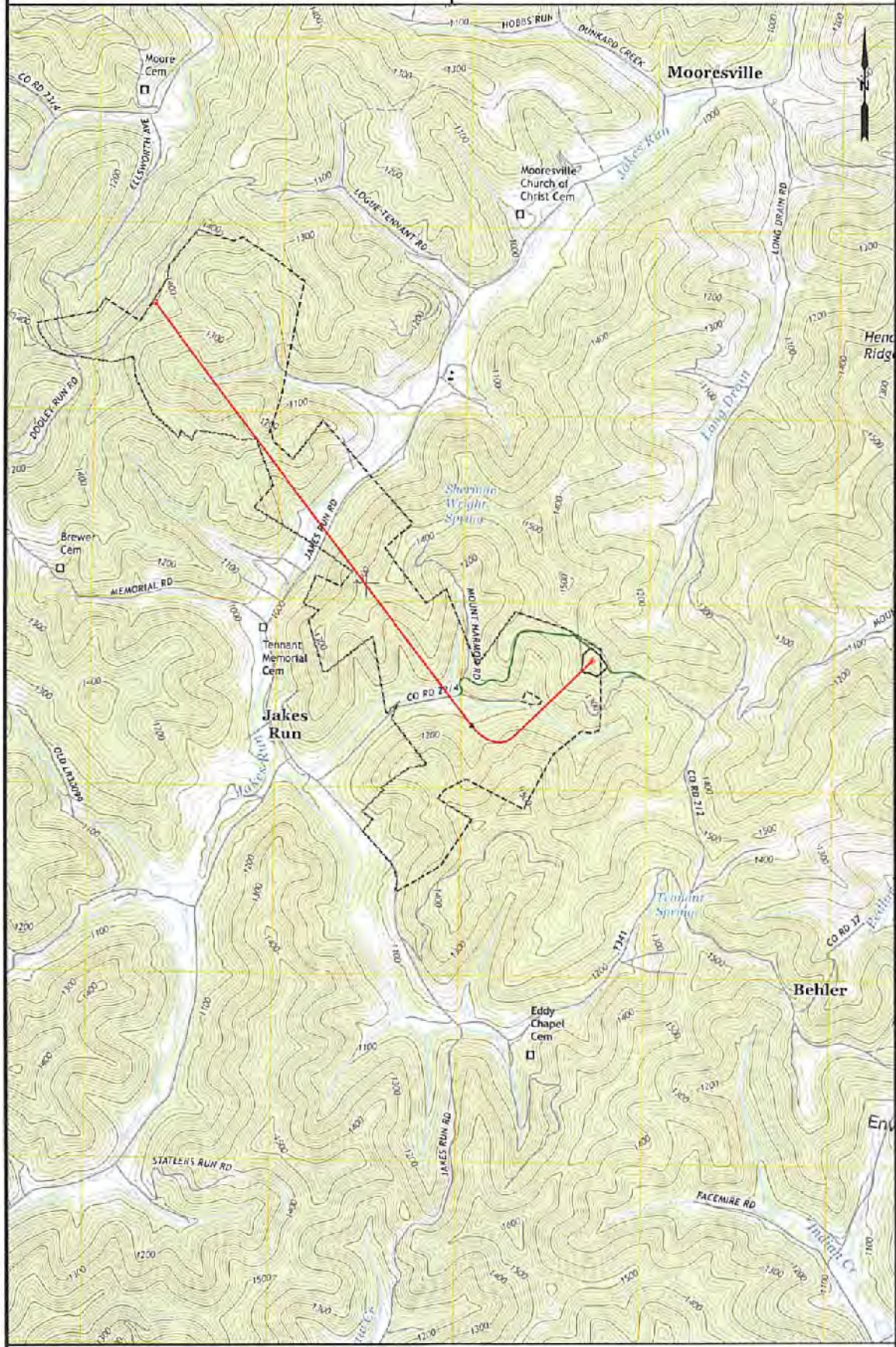
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NORTHEAST NATURAL ENERGY LLC
MEPCO WELL NO. 11H
LEASE NO. WV-061-003478-001

600 Marketplace Avenue, Suite 200
Bridgeport, WV 26330
Toll Free 855-488-9539
Fax 304-933-3327



Civil & Environmental Consultants, Inc.



---	LEASE BOUNDARY
---	PROPERTY LATERAL
---	WELL PATH
---	PREDICTED SURFACE WERE PROFILES BOTTOM HOLE
---	WELL HEAD

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12/01/2017

WW-6A1
(5/13)

Operator's Well No. MEPCO 11H

**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
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Please 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

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 required permits/approvals should be acquired from the appropriate authority before the affected activity is initiated.

Well Operator: Northeast Natural Energy LLC
 By: Hollie M. Medley *Hollie M Medley*
 Its: Regulatory Manager

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WW-6A1

Operator's Well No.

NNE Lease No.	Grantor, Lessor, etc.	Grantee, Lessee, etc.	Royalty	Book/Page
WV-061-003478-001	GARY G LORING	NORTHEAST NATURAL ENERGY LLC	DEED	1521/99
WV-061-003600-001	GARY G LORING	NORTHEAST NATURAL ENERGY LLC	DEED	1550/343
WV-061-004327-001	REED ENERGY SERVICES LLC	NORTHEAST NATURAL ENERGY LLC	DEED	1577/831
WV-061-004001-000	JOHN W WRIGHT	*SOUTH PENN OIL CO	0.125 OR GREATER	39/202
WV-061-004002-000	NIMROD TENNANT AND NANCY TENNANT	*SOUTH PENN OIL CO	0.125 OR GREATER	39/361
WV-061-004001-000	JOHN W WRIGHT AND AMANDA WRIGHT	*SOUTH PENN OIL CO	0.125 OR GREATER	39/202
WV-061-004327-001	REED ENERGY SERVICES LLC	NORTHEAST NATURAL ENERGY LLC	DEED	1577/831
WV-061-003600-001	GARY G LORING	NORTHEAST NATURAL ENERGY LLC	DEED	1550/343
WV-061-004001-000	JOHN W WRIGHT AND AMANDA WRIGHT	*SOUTH PENN OIL CO	0.125 OR GREATER	39/202
WV-061-004327-001	REED ENERGY SERVICES LLC	NORTHEAST NATURAL ENERGY LLC	DEED	1577/831
WV-061-004001-000	JOHN W WRIGHT AND AMANDA WRIGHT	*SOUTH PENN OIL CO	0.125 OR GREATER	39/202
WV-061-003553-001	GARY G LORING	NORTHEAST NATURAL ENERGY LLC	DEED	1529/705
WV-061-004327-001	REED ENERGY SERVICES LLC	NORTHEAST NATURAL ENERGY LLC	DEED	1577/831
WV-061-004001-000	JOHN W WRIGHT AND AMANDA WRIGHT	*SOUTH PENN OIL CO	0.125 OR GREATER	39/202
WV-061-003671-000	JESSE MARTIN TENNANT AND DEBORAH K TENNANT	NORTHEAST NATURAL ENERGY LLC	0.125 OR GREATER	1534/84
WV-061-004501-000	SAMUEL STULL, ET AL	NORTHEAST NATURAL ENERGY LLC	0.125 OR GREATER	133/92
WV-061-004473-000	JOHN L. LOTH AND HARRIETT LOTH	NORTHEAST NATURAL ENERGY LLC	DEED	1589/27
WV-061-003556-000	RYAN C. RADTKA AND SUSAN R. RADTKA	NORTHEAST NATURAL ENERGY LLC	0.125 OR GREATER	1524/313
WV-061-004536-001	JOYCE E WALLS	NORTHEAST NATURAL ENERGY LLC	0.125 OR GREATER	592/268
WV-061-004536-002	BERNARD L TENNANT SR	NORTHEAST NATURAL ENERGY LLC	0.125 OR GREATER	1590/361
WV-061-004536-003	SHERRI L TENNANT	NORTHEAST NATURAL ENERGY LLC	0.125 OR GREATER	1590/363
WV-061-004536-004	REX B TENNANT II	NORTHEAST NATURAL ENERGY LLC	0.125 OR GREATER	1590/365
WV-061-004536-005	MARTHA T PRICE	NORTHEAST NATURAL ENERGY LLC	DEED	1592/534
WV-061-004536-006	GARY R FILBEY	NORTHEAST NATURAL ENERGY LLC	0.125 OR GREATER	1594/220
WV-061-004536-007	CHARLES A FILBEY	NORTHEAST NATURAL ENERGY LLC	0.125 OR GREATER	1594/222
WV-061-004536-008	JANET L MCMILLEN	NORTHEAST NATURAL ENERGY LLC	0.125 OR GREATER	1594/261
WV-061-004536-009	RICHARD L FILBEY	NORTHEAST NATURAL ENERGY LLC	0.125 OR GREATER	1594/224
WV-061-004536-010	ROBERT C FILBEY	NORTHEAST NATURAL ENERGY LLC	0.125 OR GREATER	1594/226
WV-061-004536-011	CHARLES R MILLER AND DONNA MILLER	NORTHEAST NATURAL ENERGY LLC	0.125 OR GREATER	1594/333
WV-061-004573-001	JANIS J DOUGLAS	NORTHEAST NATURAL ENERGY LLC	0.125 OR GREATER	1594/90
WV-061-003278-001	CHESAPEAKE APPALACHIA LLC	*CHESAPEAKE APPALACHIA LLC	0.125 OR GREATER	1487/248
WV-061-003278-002	STATOIL USA ONSHORE PROPERTIES INC	*STATOIL USA ONSHORE PROPERTIES	0.125 OR GREATER	1488/748
WV-061-003278-003	CHESAPEAKE APPALACHIA LLC	*CHESAPEAKE APPALACHIA LLC	0.125 OR GREATER	1487/236
WV-061-003278-004	STATOIL USA ONSHORE PROPERTIES INC	*STATOIL USA ONSHORE PROPERTIES	0.125 OR GREATER	1488/725
WV-061-003278-005	CHESAPEAKE APPALACHIA LLC	*CHESAPEAKE APPALACHIA LLC	0.125 OR GREATER	1487/232
WV-061-003278-006	STATOIL USA ONSHORE PROPERTIES INC	*STATOIL USA ONSHORE PROPERTIES	0.125 OR GREATER	1488/740
WV-061-003622-001	MARGARET WRIGHT KRIER	NORTHEAST NATURAL ENERGY LLC	DEED	1539/195
WV-061-003622-002	MARY WRIGHT SISKIND	NORTHEAST NATURAL ENERGY LLC	DEED	1539/234
WV-061-003622-003	M DONLAD WRIGHT	NORTHEAST NATURAL ENERGY LLC	DEED	1539/531
WV-061-003752-001	MARTIN E VARNER	NORTHEAST NATURAL ENERGY LLC	0.125 OR GREATER	1553/270
WV-061-003752-002	VERNON C VARNER AND TAMMY R VARNER	NORTHEAST NATURAL ENERGY LLC	0.125 OR GREATER	1547/828
WV-061-003752-003	WILLIAM B VARNER	NORTHEAST NATURAL ENERGY LLC	0.125 OR GREATER	1545/453
WV-061-003752-004	RONALD J VARNER	NORTHEAST NATURAL ENERGY LLC	DEED	1560/511
WV-061-003752-005	RICHARD VARNER AND MICHELE VARNER	NORTHEAST NATURAL ENERGY LLC	DEED	1560/507
WV-061-003752-006	JODY MANN AND JONATHAN MANN	NORTHEAST NATURAL ENERGY LLC	DEED	1561/293

12/01/2017

4706101792

WV-061-003752-007	TAMMY ROY AND DENNIS ROY JR	NORTHEAST NATURAL ENERGY LLC	0.125 OR GREATER	1558/813
WV-061-003752-008	WEBSTER M VARNER AND DONNA J VARNER	NORTHEAST NATURAL ENERGY LLC	DEED	1557/235
WV-061-003752-009	DEBRA JEAN MOORE	NORTHEAST NATURAL ENERGY LLC	DEED	1557/231
WV-061-003752-010	TERRI LIVENGOOD AND TERRY LIVENGOOD	NORTHEAST NATURAL ENERGY LLC	0.125 OR GREATER	1565/616
WV-061-003752-011	DOUGLAS VARNER AND VICKI VARNER	NORTHEAST NATURAL ENERGY LLC	0.125 OR GREATER	1565/624
WV-061-003752-012	RODNEY VARNER	NORTHEAST NATURAL ENERGY LLC	0.125 OR GREATER	1565/614
WV-061-003752-013	LESTER D VARNER JR	NORTHEAST NATURAL ENERGY LLC	0.125 OR GREATER	1565/291
WV-061-003752-014	MATTHEW EDDY	NORTHEAST NATURAL ENERGY LLC	DEED	1580/170
WV-061-003752-015	AMANDA HARRIS	NORTHEAST NATURAL ENERGY LLC	DEED	1580/173
WV-061-003752-016	RUSSELL WALLS	NORTHEAST NATURAL ENERGY LLC	DEED	1580/176
WV-061-003752-017	JEFF ROUSH	NORTHEAST NATURAL ENERGY LLC	DEED	1582/58
WV-061-003752-018	CURTIS MOORE AND CRYSAAN MOORE	NORTHEAST NATURAL ENERGY LLC	0.125 OR GREATER	1589/712
WV-061-003752-019	PENNY HOLMES AND BRADLEY HOLMES	NORTHEAST NATURAL ENERGY LLC	0.125 OR GREATER	1589/817
WV-061-003949-001	SHUMAN INC	NORTHEAST NATURAL ENERGY LLC	0.125 OR GREATER	1564/319
WV-061-003719-001	FULLER WAYNE VARNER AND NELLIE VARNER	NORTHEAST NATURAL ENERGY LLC	DEED	1557/253

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Office of Oil and Gas
OCT 23 2017
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Environmental Protection

12/01/2017

Chesapeake Appalachia, LLC.
And
Statoil USA Onshore Properties Inc.

Northeast Natural Energy
Assignment
BK 120/769

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Environmental Protection

South Penn Oil Company
 Assignment
 DR 32/240
 South Penn Oil Company
 |
 South Penn Natural Gas Company
 Assignment
 DR 304/547
 South Penn Natural Gas Company
 |
 South Penn Oil Company
 Assignment
 DR 580/311
 South Penn Oil Company merged with
 Pennzoil Company and United Gas
 |
 Pennzoil United Inc.
 Assignment
 DR 672/665
 Pennzoil United Inc.
 |
 W. H. Allen
 Assignment
 DR 695/557
 W. H. Allen
 |
 Union Trust & Deposit Company
 Assignment
 DR 695/556
 W.H. Allen and James A. Allen

Edwin Associates, Inc.
 Assignment
 DR 754/594
 Union Trust National Bank, as successor by conversion of Union
 Trust & Deposit Company
 |
 Edwin Associates, Inc.
 Edwin Associates, Inc.
 |
 J. T. Carson
 Assignment
 DR 754/600
 J. T. Carson
 |
 Thompson/Texas Associates Partnership
 Assignment
 DR 754/606
 Thompson/Texas Associates Partnership, Thompson Pipe and Supply Company, Jack O.
 Thompson, Harold J. Arnsteen, Equidyne Investment Associates, Inc., individually and as
 partners and/or joint venturers in that entity known as Thompson/Texas Associates
 Partnership
 |
 Mark Eddy
 Assignment
 AR 21/22
 |
 Beth Eddy, Debbie Eddy and Melissa Eddy
 Assignment
 AR 21/582
 |
 Beth Stewart, Debbie Morris and Melissa Matheny
 |
 Mark V. Eddy
 Assignment
 AR 102/275
 |
 Mark V. Eddy & Betty Eddy (h&w) & Eddy Brothers
 |
 Northeast Natural Energy LLC
 Assignment
 AB 123/363

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Chesapeake Appalachia, LLC.



Northeast Natural Energy
Assignment
BK 120/769

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Office of Oil and Gas
OCT 23 2017
WV Department of
Environmental Protection

12/01/2017

SURFACE HOLE SURVEYED LONGITUDE -80°09'08.99"

BOTTOM HOLE SURVEYED LONGITUDE -80°10'48.39"

7,741'

3,783'

SURFACE HOLE LATITUDE: 39°40'00"
BOTTOM HOLE LATITUDE: 39°42'30"

SURFACE HOLE LONGITUDE: -80°07'30"
BOTTOM HOLE LONGITUDE: -80°10'00"

10,288'

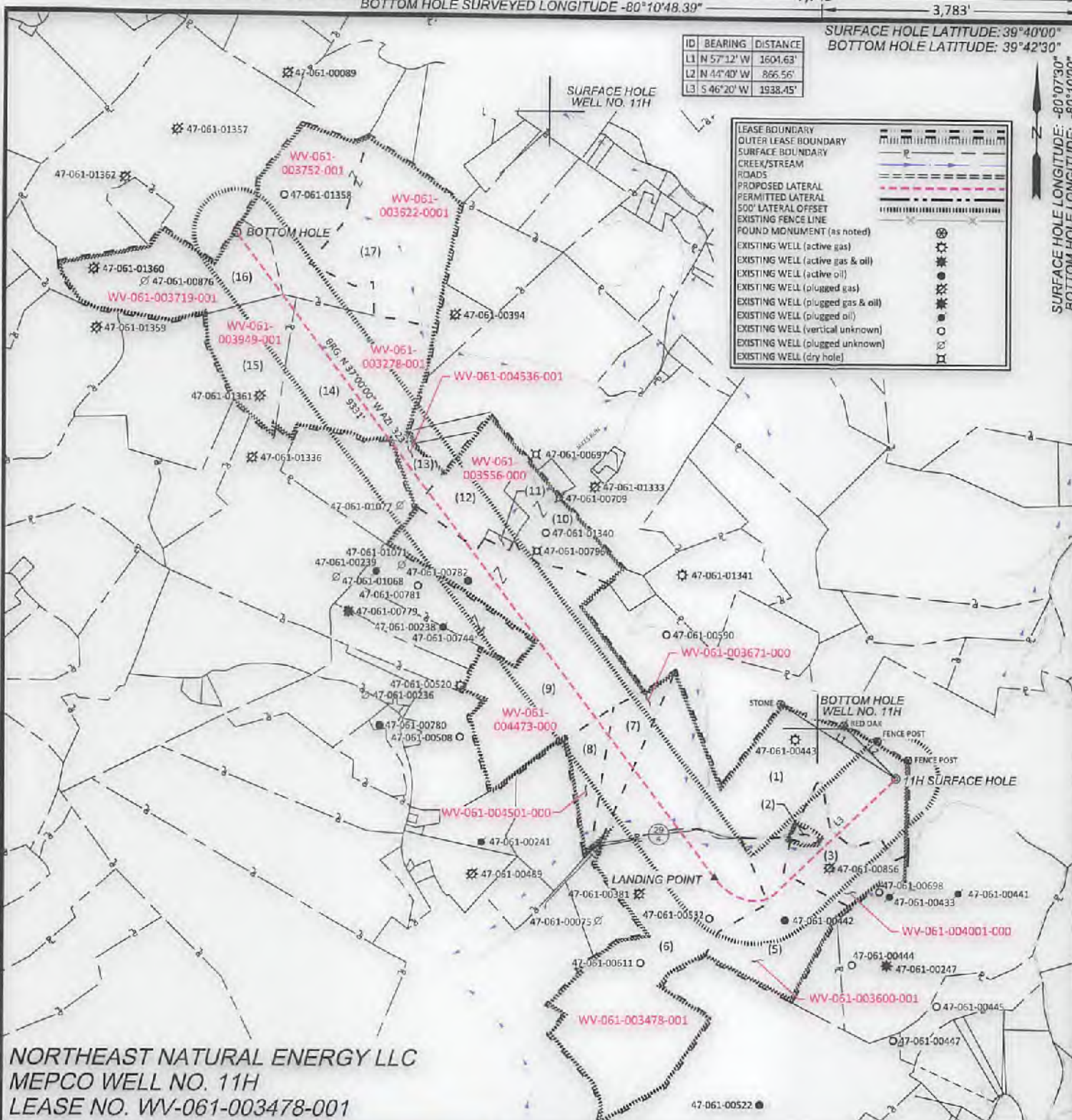
BOTTOM HOLE SURVEYED LATITUDE 39°40'48.32"

1,349'

ID	BEARING	DISTANCE
L1	N 57°12' W	1601.63'
L2	N 44°40' W	866.56'
L3	S 46°20' W	1938.45'

LEGEND

- LEASE BOUNDARY
- OUTER LEASE BOUNDARY
- SURFACE BOUNDARY
- CREEK/STREAM
- ROADS
- PROPOSED LATERAL
- PERMITTED LATERAL
- 500' LATERAL OFFSET
- EXISTING FENCE LINE
- FOUND MONUMENT (as noted)
- EXISTING WELL (active gas)
- EXISTING WELL (active gas & oil)
- EXISTING WELL (active oil)
- EXISTING WELL (plugged gas)
- EXISTING WELL (plugged gas & oil)
- EXISTING WELL (plugged oil)
- EXISTING WELL (vertical unknown)
- EXISTING WELL (plugged unknown)
- EXISTING WELL (dry hole)



NORTHEAST NATURAL ENERGY LLC
MEPCO WELL NO. 11H
LEASE NO. WV-061-003478-001

600 Marketplace Avenue, Suite 200
 Bridgeport, WV 26330
 Toll Free 855-488-9539
 Fax 304-933-3327



Civil & Environmental Consultants, Inc.

DATE OCTOBER 2, 2017

SCALE 1" = 1600' ACCURACY 1:2500

OPERATORS 11H

WELL No. 47-061-01792 H6A

API No.

TYPE OF WELL:

GAS:

Production Storage *Deep *Shallow

PROPOSED WORK ON LOCATION:

Drill Drill Deeper Redrill Convert
 Fracture/Stimulate *Plug off to Formation
 Perforate New Formation Plug and Abandon
 Clean/ Replug Other Than Above
 If "Other" Please see Details below—
 DETAILS OF PROPOSED WORK _____

*TARGET FORMATION MARCELLUS

ESTIMATED DEPTH TVD: 8,222' TMD: 18,893.51



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 rules issued and prescribed by the Division of Environmental Protection.

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



WELL AREA & LOCATION INFORMATION:

ELEVATION SOURCE DGPS (OPUS)
 ELEVATION 1448.16' (EXISTING), 1424.00' (PROPOSED)
 WATERSHED JAKES RUN OF DUNKARD CREEK DISTRICT 12/01/2017
 COUNTY MONONGALIA TOPO QUAD BLACKSVILLE
 SURFACE OWNER MEPCO LLC
 ACREAGE 103.49 ±
 ROYALTY OWNER NNE LLC ET AL (LEASE NO. WV-061-003478-001)
 LEASE ACREAGE 361.72 ±

WELL OPERATOR NORTHEAST NATURAL ENERGY LLC
 ADDRESS 707 VIRGINIA STREET EAST, SUITE 1200
CHARLESTON, WV 25301

DESIGNATED AGENT JOHN ADAMS
 ADDRESS 707 VIRGINIA STREET EAST, SUITE 1200
CHARLESTON, WV 25301

SURFACE HOLE SURVEYED LONGITUDE -80°09'08.99" 7,741' 3,783'
 BOTTOM HOLE SURVEYED LONGITUDE -80°10'48.32" 10,288' 1,349'

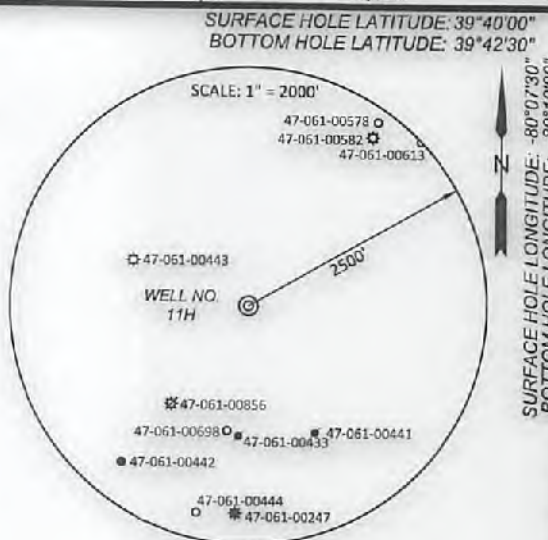
**NORTHEAST NATURAL ENERGY LLC
 MEPCO WELL NO. 11H
 LEASE NO. WV-061-003478-001**

TOP HOLE (NAD 83) N) 424253.36 E) 1784811.25 LAT.) 39°39'46.68" LONG.) 80°09'08.99" DEC. LAT.) 39.662966 DEC. LONG.) -80.152497	LP HOLE (NAD 83) N) 423096.36 E) 1782701.32 LAT.) 39°39'35.09" LONG.) 80°09'36.85" DEC. LAT.) 39.659747 DEC. LONG.) -80.159952	BOTTOM HOLE (NAD 83) N) 430548.23 E) 1777085.90 LAT.) 39°40'48.32" LONG.) 80°10'48.39" DEC. LAT.) 39.680090 DEC. LONG.) -80.180108
TOP HOLE (NAD 27) N) 424216.29 E) 1816248.08 LAT.) 39°39'46.39" LONG.) 80°09'09.74" DEC. LAT.) 39.662886 DEC. LONG.) -80.152704	LP HOLE (NAD 27) N) 423058.29 E) 1814138.22 LAT.) 39°39'34.80" LONG.) 80°09'36.61" DEC. LAT.) 39.659667 DEC. LONG.) -80.160168	BOTTOM HOLE (NAD 27) N) 430511.24 E) 1808522.66 LAT.) 39°40'48.04" LONG.) 80°10'49.13" DEC. LAT.) 39.680010 DEC. LONG.) -80.180314

TOP HOLE (UTM NAD 83)
N) 4390694.00
E) 572697.47

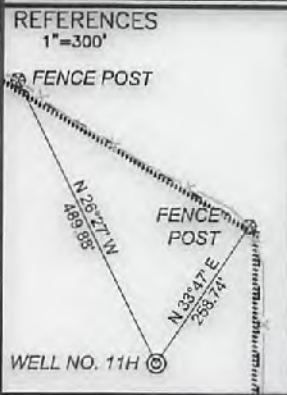
LANDING POINT (UTM NAD 83)
N) 4390330.75
E) 572060.52

BOTTOM HOLE (UTM NAD 83)
N) 4392572.55
E) 570311.72



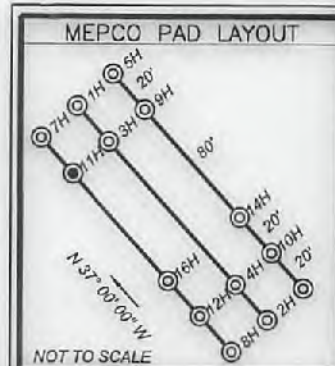
TAG	OWNER	DIST-TM-PAR	AC ±
1	MEPCO LLC	4-16-48.3	103.49
2	NANCY TENNANT	4-16-47	0.85
3	DOWNEY HAROLD FOX EST	4-16-46	21.9
5	A. KEITH MICHEAL, ET AL	4-16-45	35.53
6	A. KEITH MICHEAL, ET AL	4-16-48	206.00
7	JESSE M. & DEBORAH K. TENNANT	4-16-21	12.70
8	TYLER MARTIN TENNANT, LIFE	4-16-20	12.70
9	LEONARD & NANCY WILSON	4-11-15	93.754
10	PATRICIA A. HOSTUTLER	4-11-16	20.79
11	DANIELLE M. DITTMAN	4-11-13.1	0.75
12	SCOTT N. & PAULA L. RICE	4-11-13	23.80
13	SCOTT N. & PAULA L. RICE	4-11-12	6.75
14	DEBORAH STREET	4-10-68	55.094
15	SHUMAN INC	4-10-69	25.44
16	CONSOL MINING COMPANY LLC	4-10-70	40.56
17	DEBORAH STREET	4-10-67	100.00

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



NOTES ON SURVEY

- NO OCCUPIED DWELLINGS OR BUILDINGS 2500 SQUARE FEET OR LARGER USED TO HOUSE OR SHELTER DAIRY CATTLE OR POULTRY HUSBANDRY WITHIN 825' OF THE CENTER OF THE WELL PAD WERE OBSERVED.
- NO WATER WELLS OR DEVELOPED SPRINGS USED FOR HUMAN OR DOMESTIC ANIMAL CONSUMPTION WERE FOUND WITHIN 250'.
- SURFACE OWNERSHIP TAKEN FROM THE MONONGALIA COUNTY TAX ASSESSOR AND COUNTY CLERK OFFICES IN OCTOBER, 2015.
- WELL LATITUDE AND LONGITUDE FROM SURVEY GRADE VRS SOLUTIONS.
- BEARINGS SHOWN ARE BASED UPON THE WV STATE PLANE COORDINATE SYSTEM, NAD 83 GRID NORTH ZONE.
- LEASE INFORMATION PROVIDED BY NORTHEAST NATURAL ENERGY LLC.
- PARCEL AND LEASE BOUNDARY LOCATIONS ARE APPROXIMATE AND BASED UPON RELEVANT GIS INFORMATION, FIELD LOCATION BOUNDARY EVIDENCE AND DEED DESCRIPTIONS.



600 Marketplace Avenue, Suite 200
 Bridgeport, WV 26330
 Toll Free 855-488-9539
 Fax 304-933-3327
C&E
 Civil & Environmental Consultants, Inc.




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 rules issued and prescribed by the Division of Environmental Protection.

[Signature]

DATE OCTOBER 2, 2017
 SCALE 1" = 1600' ACCURACY 1:2500
 OPERATORS 11H
 WELL No. 47-061-01792 H6A
 API No. 01792 H6A

**STATE OF WEST VIRGINIA
 DIVISION OF ENVIRONMENTAL PROTECTION
 OFFICE OF OIL AND GAS**



TYPE OF WELL:
 GAS:
 Production Storage *Deep *Shallow

PROPOSED WORK ON LOCATION:
 Drill Drill Deeper Redrill Convert
 Fracture/ Stimulate *Plug off to Formation
 Perforate New Formation Plug and Abandon
 Clean/ Replug Other Than Above
 If "Other" Please see Details below
 DETAILS OF PROPOSED WORK _____
 *TARGET FORMATION MARGELLUS
 ESTIMATED DEPTH TYD: 8,222' TMD: 18,893.51'

WELL AREA & LOCATION INFORMATION:
 ELEVATION SOURCE DGPS (OPUS)
 ELEVATION 1448.16' (EXISTING), 1424.00' (PROPOSED)
 WATERSHED JAKES RUN OF DUNKARD CREEK DISTRICT 12/04/2017
 COUNTY MONONGALIA TOPO QUAD BLACKSVILLE
 SURFACE OWNER MEPCO LLC
 ACREAGE 103.49 ±
 ROYALTY OWNER NNE LLC ET AL (LEASE NO. WV-061-003478-001)
 LEASE ACREAGE 361.72 ±

WELL OPERATOR NORTHEAST NATURAL ENERGY LLC
 ADDRESS 707 VIRGINIA STREET EAST, SUITE 1200
CHARLESTON, WV 25301

DESIGNATED AGENT JOHN ADAMS
 ADDRESS 707 VIRGINIA STREET EAST, SUITE 1200
CHARLESTON, WV 25301



October 16, 2017

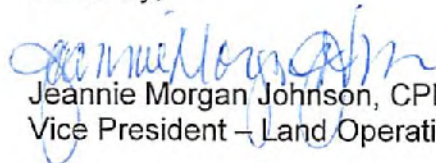
WV Department of Environmental Protection
Office of Oil and Gas Management
601 57th Street, SE
Charleston, West Virginia 25304

RE: MEPCO 7H, 11H

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 Mt. Harmon (State Route 29/4) on the enclosed survey plat.

Sincerely,



Jeannie Morgan Johnson, CPL
Vice President – Land Operations

Enclosure

RECEIVED
Office of Oil and Gas
OCT 23 2017
WV Department of
Environmental Protection

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

Date of Notice Certification: 10/12/2017

API No. 47- _____ - _____
Operator's Well No. MEPCO 11H
Well Pad Name: MEPCO

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: <u>West Virginia</u>	UTM NAD 83 Easting: <u>572701.40</u>
County: <u>Monongalia</u>	Northing: <u>4390701.68</u>
District: <u>Clay</u>	Public Road Access: <u>County Route 29/4</u>
Quadrangle: <u>Blacksville</u>	Generally used farm name: <u>MEPCO</u>
Watershed: <u>Jakes Run of Dunkard Creek</u>	

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 <input type="checkbox"/> 1. NOTICE OF SEISMIC ACTIVITY or <input type="checkbox"/> NOTICE NOT REQUIRED BECAUSE NO SEISMIC ACTIVITY WAS CONDUCTED <input checked="" type="checkbox"/> 2. NOTICE OF ENTRY FOR PLAT SURVEY or <input type="checkbox"/> NO PLAT SURVEY WAS CONDUCTED <input checked="" type="checkbox"/> 3. NOTICE OF INTENT TO DRILL or <input type="checkbox"/> NOTICE NOT REQUIRED BECAUSE NOTICE OF ENTRY FOR PLAT SURVEY WAS CONDUCTED or <input type="checkbox"/> WRITTEN WAIVER BY SURFACE OWNER (PLEASE ATTACH) <input checked="" type="checkbox"/> 4. NOTICE OF PLANNED OPERATION <input checked="" type="checkbox"/> 5. PUBLIC NOTICE <input checked="" type="checkbox"/> 6. NOTICE OF APPLICATION		OOG OFFICE USE ONLY <input type="checkbox"/> RECEIVED/ NOT REQUIRED <input type="checkbox"/> RECEIVED <input type="checkbox"/> RECEIVED/ NOT REQUIRED <input type="checkbox"/> RECEIVED <input type="checkbox"/> RECEIVED <input type="checkbox"/> RECEIVED
RECEIVED Office of Oil and Gas OCT 23 2017 WV Department of Environmental Protection		

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.

WW-6AC
(1/12)

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.

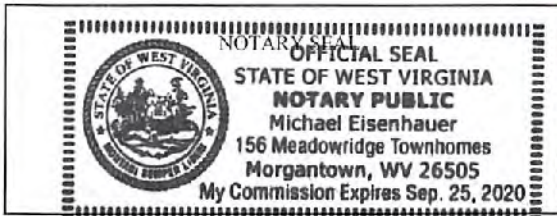
Well Operator:	<u>Northeast Natural Energy LLC</u>	Address:	<u>707 Virginia Street East, Suite 1200</u>
By:	<u>Hollie M. Medley</u>		<u>Charleston, WV 25301</u>
Its:	<u>Regulatory Manager</u>	Facsimile:	<u>304.241.5972</u>
Telephone:	<u>304.212.0422</u>	Email:	<u>hmedley@nne-llc.com</u>

Hollie M Medley

Subscribed and sworn before me this 20 day of October, 2017

Michael Eisenhauer Notary Public

My Commission Expires 9-25-2020



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
OCT 23 2017
WV Department of
Environmental Protection

WW-6A
(9-13)

API NO. 47- _____ - _____
OPERATOR WELL NO. MEPCO 11H
Well Pad Name: MEPCO

**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: 10/10/2017 **Date Permit Application Filed:** 10/20/2017

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: Please See Attachment
Address: _____

Name: _____
Address: _____

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

Name: _____
Address: _____

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

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

COAL OPERATOR
Name: _____
Address: _____

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

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

*Please attach additional forms if necessary

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WW-6A
(8-13)

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API NO. 47- 61 - 01792
OPERATOR WELL NO. MEPCO 11H
Well Pad Name: MEPCO

WV Department of
Environmental Protection

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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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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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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(8-13)

API NO. 47- 61-01792
OPERATOR WELL NO. MEPCO 11H
Well Pad Name: MEPCO

Notice is hereby given by:

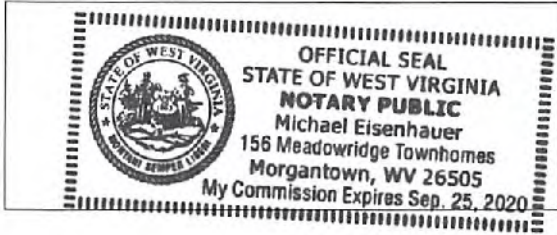
Well Operator: Northeast Natural Energy LLC
Telephone: 304-212-0422
Email: hmedley@nne-llc.com

Address: 707 Virginia Street E., 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 deprivacvofficer@wv.gov.

Hollis M Medley



Subscribed and sworn before me this 20 day of October, 2017

Michael Eisenhauer Notary Public

My Commission Expires 9-25-2020

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MEPCO 11H

Surface Owner(s)

Consolidation Coal Company /
Attn: Nick Pappaterra
Land Agent Depositions – Rentals
CNX Center
1000 Consol Energy Drive
Canonsburg, PA 15317

MEPCO, LLC /
Attn: Brian Osborn
103 Corporate Drive, Suite 102
Morgantown, WV 26501

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

Consolidation Coal Company /
Attn: Nick Pappaterra
Land Agent Depositions – Rentals /
CNX Center
1000 Consol Energy Drive
Canonsburg, PA 15317

Coal Owner or Lessee

Consol Mining Company, LLC /
Attn: Analyst, Engineering and Operations Support – Coal
CNX Center
1000 Consol Energy Drive
Canonsburg, PA 15317

Murray Energy Corp. /
Attn: Alex P. O'Neill
Coal – Oil and Gas Relations Manager
46226 National Road
St. Clairsville, OH 43950

Gary G. Loring /
139 Thistledown Lane /
Morgantown, WV 26508

A. Keith Michael /
241 Jefferson St. /
Bridgeport, WV 26330

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MEPCO 11H

Gregory G. Michael /
1176 Sands Drive
Fairmont, WV 26554

Jane Ann Reynolds /
2 West Hill Drive
Fairmont, WV 26554

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

Diane K. Braun, co-executrix of James E. Fletcher Estate /
44 Luther Park Road
Fairview, WV 26570

William D. Statler /
578 Long Drain Road, Core, WV 26541

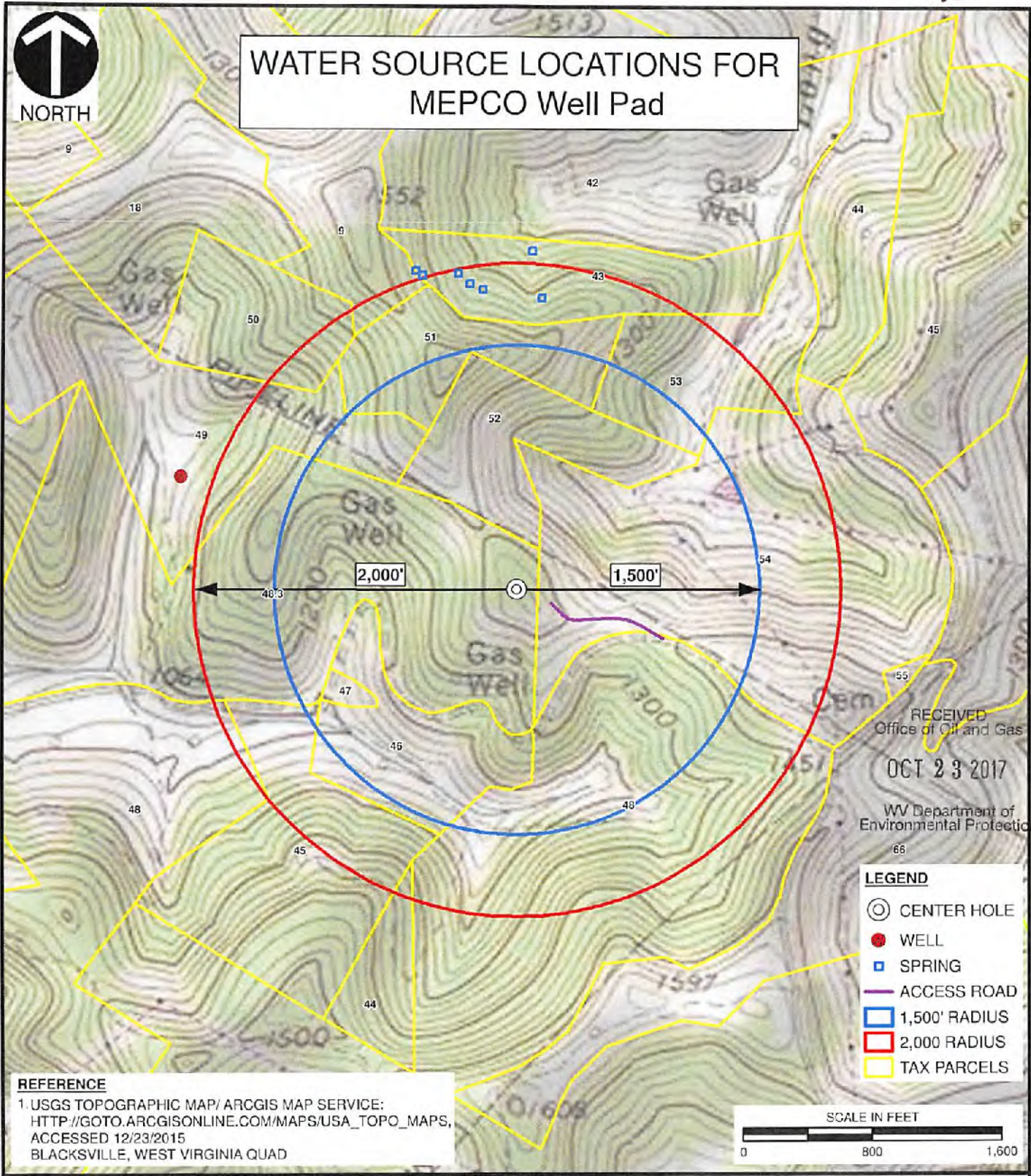
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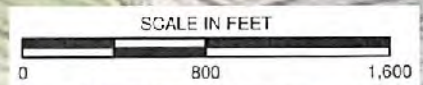
WATER SOURCE LOCATIONS FOR MEPCO Well Pad



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- LEGEND**
- ⊙ CENTER HOLE
 - WELL
 - SPRING
 - ACCESS ROAD
 - 1,500' RADIUS
 - 2,000 RADIUS
 - TAX PARCELS

REFERENCE
1. USGS TOPOGRAPHIC MAP/ ARCGIS MAP SERVICE:
HTTP://GOTO.ARCGISONLINE.COM/MAPS/USA_TOPO_MAPS,
ACCESSED 12/23/2015
BLACKSVILLE, WEST VIRGINIA QUAD



Civil & Environmental Consultants, Inc.
600 Marketplace Suite 200 - Bridgeport, WV 26330-2820
Ph: 304-933-3119 Toll: 855-488-9539 Fax: 304-933-3327
www.cecinc.com

NORTHEAST NATURAL ENERGY LLC
MEPCO PAD
MONONGALIA COUNTY, WEST VIRGINIA

WATER SOURCES FOR MEPCO PAD

DRAWN BY: MAF	CHECKED BY: JDR	APPROVED BY: ^{Hand signature} SAC*	FIGURE NO: WT 12/01/2017
DATE: 12/21/2015	SCALE: 1" = 800'	PROJECT NO: 150-445.0021	

I:\Srv\bridgeport\p\2015\150-445-GIS\Maps\Task_0021\150445_0021_WATER_WELL_TOPO.mxd 12/21/2015 (mirank)

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: 10/5/2015 **Date of Planned Entry:** 10/13/2015

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: <u>West Virginia</u>	Approx. Latitude & Longitude: <u>4390688.4; 572705 (UTM NAD 83)</u>
County: <u>Monongalia</u>	Public Road Access: <u>State Route 29/4</u>
District: <u>Clay</u>	Watershed: <u>Dunkard Creek</u>
Quadrangle: <u>Blacksville</u>	Generally used farm name: <u>MEPCO</u>

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
Telephone: 304-212-0422
Email: hmedley@nne-llc.com

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

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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.

WW-6A3 ATTACHMENT

MEPCO

Surface Owner(s)

Consolidation Coal Company /
Attn: Melissa Wilson
Land Agent Depositions – Rentals
CNX Center
1000 Consol Energy Drive
Canonsburg, PA 15317

MEPCO, LLC /
Attn: Will Oliver
103 Corporate Drive, Suite 102
Morgantown, WV 26501

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

Consolidation Coal Company /
Attn: Melissa Wilson
Land Agent Depositions – Rentals
CNX Center
1000 Consol Energy Drive
Canonsburg, PA 15317

MEPCO, LLC /
Attn: Will Oliver
103 Corporate Drive, Suite 102
Morgantown, WV 26501

Coal Owner or Lessee

Consol Mining Company, LLC /
Attn: Analyst, Engineering and Operations Support – Coal
CNX Center
1000 Consol Energy Drive
Canonsburg, PA 15317

Murray Energy Corp. /
Attn: Alex P. O'Neill
Coal – Oil and Gas Relations Manager
46226 National Road
St. Clairsville, OH 43950

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Mineral Owner

Telluric Company /
Attn: Joseph Swiger
143 Distributor Drive
Morgantown, WV 26508

A. Keith Michael /
241 Jefferson St.
Bridgeport, WV 26330

Gregory G. Michael /
1176 Sands Drive
Fairmont, WV 26554

Jane Ann Reynolds /
2 West Hill Drive
Fairmont, WV 26554

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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: 10/10/2017 **Date Permit Application Filed:** 10/20/2017

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: MEPCO, LLC, Attn: Brian Osborn
Address: 103 Corporate Drive, Suite 102
Morgantown, WV 26501

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:	<u>West Virginia</u>	UTM NAD 83	Easting:	<u>572697.47</u>
County:	<u>Monongalia</u>		Northing:	<u>4390694.00</u>
District:	<u>Clay</u>	Public Road Access:	<u>County Route 29/4</u>	
Quadrangle:	<u>Blacksville</u>	Generally used farm name:	<u>MEPCO</u>	
Watershed:	<u>Jakes Run of Dunkard Creek</u>			

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

Authorized Representative: Hollie Medley, Regulatory Manager
Address: 48 Donley Street, Suite 601
Morgantown, WV 26501
Telephone: 304-212-0422
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 of your personal information, please contact DEP's Chief Privacy Officer at depprivacyofficer@wv.gov.

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Office of Oil and Gas
OCT 23 2017
12/01/2017
WV Department of
Environmental Protection

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: 10/10/2017 **Date Permit Application Filed:** 10/20/2017

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

- CERTIFIED MAIL HAND
- RETURN RECEIPT REQUESTED 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: Consolidation Coal Company, Attn: Nick Pappaterra
Address: CNX Center, 1000 Consol Energy Drive
Canonsburg, PA 15317

Name: MEPCO, LLC, Attn: Brian Osborn
Address: 103 Corporate Drive, Suite 102
Morgantown, WV 26501

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: <u>West Virginia</u>	UTM NAD 83 Easting: <u>572697.47</u>
County: <u>Monongalia</u>	Northing: <u>4390694.00</u>
District: <u>Clay</u>	Public Road Access: <u>County Route 29/4</u>
Quadrangle: <u>Blacksville</u>	Generally used farm name: <u>MEPCO</u>
Watershed: <u>Jakes Run of Dunkard Creek</u>	

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: 304-212-0422
Email: hmedley@nne-llc.com

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

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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.

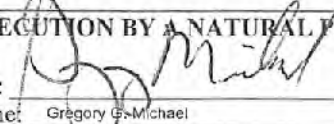
Pursuant to West Virginia Code § 22-6A-8(b) No permit may be issued less than thirty days after the filing date of the application for any well work except plugging or replugging; and no permit for plugging or replugging may be issued less than five days after the filing date of the application except 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, Greg Michael, 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 10, 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:	<u>West Virginia</u>	UTM NAD 83	Easting:	<u>(7H) 572693.34 ; (11H) 572697.47</u>
County:	<u>Monongalia</u>		Northing:	<u>(7H) 4390698.48 ; (11H) 4390694.00</u>
District:	<u>Clay</u>	Public Road Access:	<u>County Route 29/4</u>	
Quadrangle:	<u>Blacksville</u>	Generally used farm name:	<u>MEPCO</u>	
Watershed:	<u>Jakes Run of Dunkard Creek</u>			

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.

<p>*Please check the box that applies</p> <p><input type="checkbox"/> SURFACE OWNER</p> <p><input type="checkbox"/> SURFACE OWNER (Road and/or Other Disturbance)</p> <p><input type="checkbox"/> SURFACE OWNER (Impoundments/Pits)</p> <p><input checked="" type="checkbox"/> COAL OWNER OR LESSEE</p> <p><input type="checkbox"/> COAL OPERATOR</p> <p><input type="checkbox"/> WATER PURVEYOR</p> <p><input type="checkbox"/> OPERATOR OF ANY NATURAL GAS STORAGE FIELD</p>	<p>FOR EXECUTION BY A NATURAL PERSON</p> <p>Signature: <u></u></p> <p>Print Name: <u>Gregory G. Michael</u></p> <p>Date: <u>10-16-2017</u></p>
	<p>FOR EXECUTION BY A CORPORATION, ETC.</p> <p>Company: _____</p> <p>By: _____</p> <p>Its: _____</p> <p>Signature: _____</p> <p>Date: _____</p>

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STATE OF WEST VIRGINIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS
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Comment and Waiver Provisions

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VOLUNTARY STATEMENT OF NO OBJECTION

I, Jane Ann Reynolds 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 10, 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: (7H) 572693.34 ; (11H) 572697.47
County: Monongalia Northing: (7H) 4390598.48 ; (11H) 4390594.00
District: Clay Public Road Access: County Route 29/4
Quadrangle: Blacksville Generally used farm name: MEPCO
Watershed: Jakes Run of 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.

<p>*Please check the box that applies</p> <p><input type="checkbox"/> SURFACE OWNER</p> <p><input type="checkbox"/> SURFACE OWNER (Road and/or Other Disturbance)</p> <p><input type="checkbox"/> SURFACE OWNER (Impoundments/Pits)</p> <p><input checked="" type="checkbox"/> COAL OWNER OR LESSEE</p> <p><input type="checkbox"/> COAL OPERATOR</p> <p><input type="checkbox"/> WATER PURVEYOR</p> <p><input type="checkbox"/> OPERATOR OF ANY NATURAL GAS STORAGE FIELD</p>	<p>FOR EXECUTION BY A NATURAL PERSON</p> <p>Signature: <u>Jane A. Reynolds</u></p> <p>Print Name: <u>Jane Ann Reynolds</u></p> <p>Date: <u>10-15-2017</u></p>
	<p>FOR EXECUTION BY A CORPORATION, ETC.</p> <p>Company: _____</p> <p>By: _____</p> <p>Its: _____</p> <p>Signature: _____</p> <p>Date: _____</p>

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OCT 23 2017

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STATE OF WEST VIRGINIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS
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VOLUNTARY STATEMENT OF NO OBJECTION

I, A. Keith Michael, 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 10, 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:	<u>West Virginia</u>	UTM NAD 83	Eastings:	<u>(7H) 572693.34 ; (11H) 572697.47</u>
County:	<u>Monongalia</u>		Northings:	<u>(7H) 4390698.48 ; (11H) 4390694.00</u>
District:	<u>Clay</u>	Public Road Access:	<u>County Route 29/4</u>	
Quadrangle:	<u>Blacksville</u>	Generally used farm name:	<u>MEPCO</u>	
Watershed:	<u>Jakes Run of Dunkard Creek</u>			

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.

<p>*Please check the box that applies</p> <p><input type="checkbox"/> SURFACE OWNER</p> <p><input type="checkbox"/> SURFACE OWNER (Road and/or Other Disturbance)</p> <p><input type="checkbox"/> SURFACE OWNER (Impoundments/Pits)</p> <p><input checked="" type="checkbox"/> COAL OWNER OR LESSEE</p> <p><input type="checkbox"/> COAL OPERATOR</p> <p><input type="checkbox"/> WATER PURVEYOR</p> <p><input type="checkbox"/> OPERATOR OF ANY NATURAL GAS STORAGE FIELD</p>	<p>FOR EXECUTION BY A NATURAL PERSON</p> <p>Signature: <u>A. Keith Michael</u></p> <p>Print Name: <u>A. Keith Michael</u></p> <p>Date: _____</p>
	<p>FOR EXECUTION BY A CORPORATION, ETC.</p> <p>Company: _____</p> <p>By: _____</p> <p>Its: _____</p> <p>Signature: _____</p> <p>Date: _____</p>

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VOLUNTARY STATEMENT OF NO OBJECTION

I, GARY G. LORING, 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 10, 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:	<u>West Virginia</u>	UTM NAD 83	Eastings:	<u>(7H) 572893.34 ; (11H) 572697.47</u>
County:	<u>Monongalia</u>		Northing:	<u>(7H) 4390698.48 ; (11H) 4390694.00</u>
District:	<u>Cley</u>	Public Road Access:	<u>County Route 29/4</u>	
Quadrangle:	<u>Blacksville</u>	Generally used farm name:	<u>MEPCO</u>	
Watershed:	<u>Jakes Run of Dunkard Creek</u>			

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: Gary G. Loring
Print Name: Gary G. Loring
Date: 10/12/17

FOR EXECUTION BY A CORPORATION, ETC.

Company: _____
 By: _____
 Its: _____
 Signature: _____
 Date: _____

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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

July 18, 2017

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 Mepco Pad, Monongalia County
Mepco 11H

Dear Mr. Martin,

This well site will be accessed from a permit #04-2015-1144 issued to Northeast Natural Energy Corporation for access to the State Road for a well site located off of Monongalia County Route 29/4 SLS.

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, 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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OCT 23 2017

WV Department of
Environmental Protection

12/01/2017

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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Environmental Protec

4706101792

MEPCO LLC PAD FINAL SITE DESIGN, CONSTRUCTION PLANS, & EROSION & SEDIMENT CONTROL PLANS NORTHEAST NATURAL ENERGY LLC

LAT./LONG: N 39° 39' 46.85" W 80° 9' 8.64"
(APPROXIMATE CENTER OF PROJECT)



WEST VIRGINIA 811 ONE CALL WAS PERFORMED IN OCTOBER, 2015
THE FOLLOWING UTILITY COMPANIES MAY BE PRESENT IN THE PROJECT AREA

- FRONTIER COMMUNICATIONS (FORMERLY VERIZON)
- BLACKWELL GAS AND GAS COMPANY
- DOMINION HOPE
- TRISTE ENERGY CORP.
- WEST BOK TO COMMUNICATIONS

PROJECT OWNER/APPLICANT

NORTHEAST NATURAL ENERGY LLC
707 VIRGINIA STREET SUITE 1200
CHARLESTON, WV 25301
PH: (304) 263-6743
CONTACT: DAVE MCCOUGAL

CIVIL ENGINEER

CIVIL & ENVIRONMENTAL CONSULTANTS, INC.
800 MARKETPLACE AVENUE SUITE 200
BRIDGEPORT, WV 26308
PH: (304) 853-3119
CONTACT: JOSEPH D. ROBINSON, P.E.

WYDOW

DISTRICT OFFICE
PH: (304) 842-1200
CONTACT: DEBORAH MAMAGER
RAY LORSE

SPILL HOTLINE

WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL PROTECTION (WVDEP)
PH: (304) 642-7074
NATIONAL RESPONSE CENTER
PH: (800) 424-6802

LOCAL EMERGENCY SERVICES

AMBULANCE	NAME	TELEPHONE NO.
HOSPITAL EMERGENCY ROOM	PLATT MEMORIAL HOSPITAL	(304) 596-4000
FIRE DEPARTMENT	911	
POLICE DEPARTMENT	911	
POISON CONTROL CENTER	WEST VIRGINIA POISON CENTER	1-800-235-7222

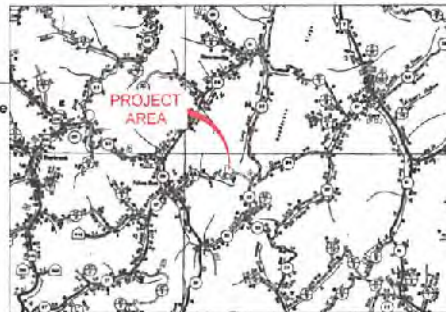


LIMITS OF DISTURBANCE PARCEL BREAKUPS			
NAME	MEPCO LLC		
TAXMAP	16	PARCEL	48.3
DEED BOOK	1102	PAGE	73
ACRESAGE	103.89		
AFFECTED AREA FROM MAIN ACCESS ROAD	0.00	AC	
AFFECTED AREA FROM WELL PAD	6.48	AC	
AFFECTED AREA FROM TOTAL	6.48	AC	
NAME	CONSOLIDATION COAL COMPANY		
TAXMAP	16	PARCEL	54
DEED BOOK	856	PAGE	158
ACRESAGE	84.14		
AFFECTED AREA FROM MAIN ACCESS ROAD	1.81	AC	
AFFECTED AREA FROM WELL PAD	2.51	AC	
AFFECTED AREA FROM TOTAL	4.32	AC	

L.C.D. AREAS	
DESCRIPTION	ACRES
MAIN ACCESS ROAD	1.81
WELL PAD	10.99
TOTAL	12.80
WYDOW'D	11.94

LOCATION MAP

BLACKSVILLE USGS 7.5 QUAD
SCALE IN FEET
1 INCH = 5000 FEET



VICINITY MAP

MONONGALIA COUNTY ROAD MAP
SCALE IN FEET
1 INCH = 1 MILE



SITE LOCATIONS	
WV83-NP (WEST VIRGINIA NORTH ZONE)	
CENTROID OF PAD	LATTITUDE LONGITUDE
	39.652096 -80.152410
MAIN ACCESS ROAD ENTRANCE	39.641431C -80.228709

SITE LOCATIONS	
UTM83-17 (WEST VIRGINIA NORTH ZONE)	
CENTROID OF PAD	NORTHING EASTING
	4206874.851 757036.567
MAIN ACCESS ROAD ENTRANCE	4206204.504 756926.633

FLOOD PLAN CONDITIONS

DO SITE CONSTRUCTION ACTIVITIES TAKE PLACE IN FLOODPLAIN	NO
PERMIT NEEDED FROM COUNTY FLOODPLAIN COORDINATOR	NO
PERMANENTLY COMPLETED	NO
FLOODPLAIN SHOWN ON DRAWING	NO
REG. MAP NUMBER(S) FOR SITE	SAVINGHOUSE
ACRESAGE OF CONSTRUCTION IN FLOODPLAIN	N/A



PLAN REPRODUCTION WARNING

THE PLANS HAVE BEEN CREATED ON ANSI D 22" X 34" SHEETS FOR REDUCTIONS. REFER TO GRAPHIC SCALE.
THE PLANS HAVE BEEN CREATED FOR FULL COLOR PLOTTING. ANY SET OF THE PLANS THAT IS NOT PLOTTED IN FULL COLOR SHALL NOT BE CONSIDERED ADEQUATE FOR CONSTRUCTION PURPOSES.
WARNING INFORMATION MAY BE LOST IN COPYING AND/OR GRAY SCALE PLOTTING.

SHEET INDEX

SHEET 1 OF 20	COVER SHEET
SHEETS 2-3 OF 20	WELL SAFETY PLAN MAPS
SHEET 4 OF 20	ENR 1902 CONDITIONS PLAN
SHEET 5 OF 20	CONSTRUCTION NOTES
SHEET 6 OF 20	SUMMARY OF QUANTITIES
SHEET 7 OF 20	OVERALL SITE DESIGN
SHEET 8 OF 20	FINAL DESIGN PLAN
SHEETS 9-12 OF 20	WELL PAD PROFILES & CROSS SECTIONS
SHEET 13 OF 20	MAIN ACCESS ROAD PROFILE & CROSS SECTIONS
SHEETS 14-19 OF 20	CONSTRUCTION DETAILS
SHEET 20 OF 20	RECLAMATION PLAN



REVISION RECORD

NO.	DATE	DESCRIPTION
1	01/28/2016	ISSUED FOR PERMIT

Civil & Environmental Consultants, Inc.
800 MARKETPLACE AVENUE SUITE 200
BRIDGEPORT, WV 26308
PH: (304) 853-3119 FAX: (304) 853-3037
www.civil.com

**NORTHEAST NATURAL ENERGY LLC
MEPCO LLC PAD
CLAY DISTRICT
MONONGALIA COUNTY
WEST VIRGINIA**

COVER SHEET

DATE	REVISION	BY	CHKD.
01/28/2016	ISSUED FOR PERMIT	JDR	JDR

PROJECT NO: **C000**
SHEET 1 OF 20



APPROVED
WVDEP OOG
WES 1/29/2016

DEVELOPMENT COAL COMPANY
SAY MAP OF TRACTS 57
2025 BUSH FOR PANE 738
24.14 ACRES BY AGREEMENT

MEPCO LLC PAD
ELEVATION = 124'
CENTROID OF WELL PAD LOCATION
NAD83 EAS - 38 8022.3
NAD83 LONG - 80 1924.10
UMERS-17 (METERS) N 432028.48
UMERS-17 (METERS) E 572920.03

TEMPORARY WHITE TANK
TOTAL VOLUME = 40,000 BBLs
APPROXIMATE ELEVATION = 49.688 BBLs
ELEVATION LOCATION
NAD83 EAS - 38 8022.3
NAD83 LONG - 80 1924.10
UMERS-17 (METERS) N 432028.48
UMERS-17 (METERS) E 572920.03

WELL PAD AREA SHALL NOT DISCHARGE
THROUGH CONTAINMENT BERM ON PAD
UNTIL ALL UNLOADING ACTIVITIES ARE
COMPLETE AND WELL PAD HAS BEEN
TESTED TO WV DEP'S SATISFACTION

TOPSOIL FILE
2.5 X 7.5 FT
(WITH 200 BBL)

MINN ACCESS ROAD ENTRANCE
NAD83 EAS - 39 8621.10
NAD83 LONG - 80 1426.99

SCALE IN FEET
0 50 100



NO.	DATE	BY	DESCRIPTION

CEE
Civil & Environmental Consultants, Inc.
400 Monongahela Avenue, Charleston, WV 25309
P.O. Box 10000, Charleston, WV 25310
www.cee.com

NORTHEAST NATURAL ENERGY LLC
MEPCO LLC PAD
CLAY DISTRICT
MONONGALIA COUNTY
WEST VIRGINIA

FINAL DESIGN PLAN
DATE: NOVEMBER 2015
DRAWN BY: [Name]
CHECKED BY: [Name]
SCALE: AS SHOWN
PROJECT NO: [Number]

C303
SHEET 1 OF 20