

### 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, November 03, 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 16H

47-061-01790-00-00

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 16H

Farm Name: MEPCO LLC

U.S. WELL NUMBER: 47-061-01790-00-00

Horizontal 6A / New Drill

Date Issued: 11/3/2017

Promoting a healthy environment.

API Number: 61-01790

# **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**

- 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.

API Number: 61-01790

# **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.

API NO. 47	le1 -	01	1790
			MEPCO 16H
Well Pag	d Name:	MEPC	0

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

1) Well Operator: NORTHEAST NA	TURAL ENERGY LLC	494498281	MONONGALIA	CLAY	BLACKSVILLE
· · · · · · · · · · · · · · · · · · ·		Operator ID	County	District	Quadrangle
2) Operator's Well Number: ME	PCO 16H	Well Pad	Name: MEPO	00	
3) Farm Name/Surface Owner:	MEPCO LLC	Public Road	d Access: CR	29/7	
4) Elevation, current ground:	1452.74' Ele	vation, proposed p	ost-construction	on: 1424.0	0'
5) Well Type (a) Gas X	Oil NA	Unde	rground Storag	e NA	
Other NA					
(b)If Gas Sha	llow X	Deep	NA		
Hor	izontal X		100		
6) Existing Pad: Yes or No NO			MOK 10	15/2017	
7) Proposed Target Formation(s) MARCELLUS; 8,222'; 103'; 360		pated Thickness ar	nd Expected Pr	essure(s):	
8) Proposed Total Vertical Depth	1: 8,222'				
9) Formation at Total Vertical D	epth: MARCELL	LUS			
10) Proposed Total Measured De	epth: 16,907.61	1			
11) Proposed Horizontal Leg Lei	ngth: 7,210'				
12) Approximate Fresh Water St	rata Depths:	50', 1,307'			
13) Method to Determine Fresh	Water Depths: D	RILLER'S LOG F	ROM OFFSE	T WELLS	
14) Approximate Saltwater Dept	hs: 1,947', 2,589	)'			
15) Approximate Coal Seam Dep	oths: 662', 1,305	1			
16) Approximate Depth to Possi	ble Void (coal mir	ne, karst, other): 1	IA .		
17) Does Proposed well location directly overlying or adjacent to		Yes	No	X	
(a) If Yes, provide Mine Info:	Name:				
	Depth:			(	RECEIVED  Office of Oil and Gas
	Seam:				
	Owner:				OCT 11 2017

API NO. 47-61 - 017 90
OPERATOR WELL NO. MEPCO 16H

Well Pad Name: MEPCO

# 18)

# CASING AND TUBING PROGRAM

ТҮРЕ	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	52.78	40'	40'	CTS
Fresh Water	13 3/8"	NEW	J-55	54.6	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	16,907.61'	16,877.61'	3,927 CU. FT.
Tubing	2 3/8"	NEW	P-110	4.7	NA	8,500'	NA
Liners							

MDK 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"	1,570	3,600	NA	NA
Liners							

# **PACKERS**

Kind:	
Sizes:	
Depths Set:	RECEIVED Office of Oil and Gas

OCT 11 2017

WW-6B	ì
(10/14)	

API NO. 47- 6 1 - 61790

OPERATOR WELL NO. MEPCO 16H

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 6,000' TVD/MD. The well will then be horizontally drilled on fluid from KOP to approximately 8,222' TVD / 16,907.61' MD along a 147 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. After fracture treatment,

- 21) Total Area to be disturbed, including roads, stockpile area, pits, etc., (acres): 23.18
- 22) Area to be disturbed for well pad only, less access road (acres): 7.07
- 23) Describe centralizer placement for each casing string:

Surface and intermediate casing strings will have bow spring centralizers placed every third joint (~120') from shoe joint to surface. Production casing will have rigid body centralizers placed 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 + 3% bwoc Calcium Chloride Fresh Water blend. Intermediate string cement will be a Class A Cement + 0.3% 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:

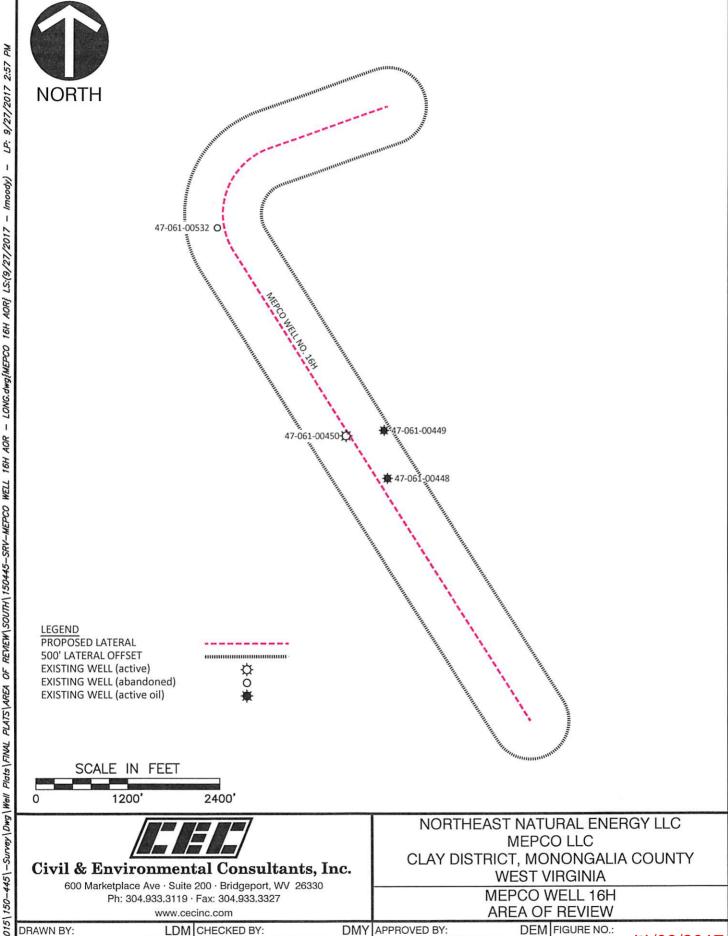
Surface string will use a 35.0 bbls Gel Pill + LCM + 25 lbs Cello Flake + 20 lbs/bbl Bentonite + 80 lbs Fed Seal @ 8.4 ppg & 10 bbls fresh water spacer prior to cement. Intermediate string will use a 35.0 bbls Gel Pill + LCM + 25 lbs Cello Flake + 20 lbs/bbl Bentonite + 80 lbs Fed Seal @ 8.4 ppg & 10 bbls fresh water spacer prior to cement. Production string will use a 50.0 bbls SealBond 25 + 10 and Gas US-40 + 275 lbs/bbl Barite, Bulk + 1 gal/bbl SS-2 @ 13.5 ppg spacer prior to cement.

OCT 11 2017

\*Note: Attach additional sheets as needed.

WV Department of Environmental Protection Page 3 of 3/2017

11/03/2017



1"=1,200' PROJECT NO:

150-445

LDM CHECKED BY:

SEPTEMBER 27, 2017 DWG SCALE:

P:\2015\150-445\-Survey\Dwg\Well Plats\FINAL PLATS\AREA OF REVIEW\SOUTH\150445-SRY-MEPCO WELL 16H AOR - LONG.dwg{MEPCO 16H AOR} LS:(9/27/2017 - Imoody)

DATE:

# AREA OF REVIEW MEPCO 16H

UNIT ( API NUMBER)	WELL NAME	WELL NUMBER	OPERATOR	WV DEP STATUS	TD	GROUND ELEVATION	Comments
4706100532	NANCY TENNANT	4	CONSOLIDATION COAL COMPANY	ABANDONED	2134'	1179'	Permit to Plug 8/24/2014
4706100450	J.S.WRIGHT	4	NNE RESOURCES LLC	ACTIVE	2347'	UNKNOWN	
4706100449	J.S.WRIGHT	3	NNE RESOURCES LLC	ACTIVE OIL	2262'	1379'	
4706100448	J.S.WRIGHT	2	NNE RESOURCES LLC	ACTIVE OIL	2220'	1333'	





Received 8/16

October 5, 2017

WV Department of Environmental Protection Office of Oil and Gas 601 57<sup>th</sup> Street SE Charleston, WV 25304

Re: MEPCO 12H and 16H Application Revisions

Dear Permit Reviewer,

Northeast Natural Energy LLC ("NNE") would like to request revisions to its proposed MEPCO 12H and 16H applications currently being reviewed. NNE has lengthened the horizontal well bore of each well to allow for more efficient development of the permitted MEPCO Pad.

Please find enclosed with this request revised WW-6B Forms, WW-6A1 Forms and Attachments, Site Safety Plans, Well Bore Schematics, Area of Review Maps and Spreadsheets, and Mylar Plats.

Should you have any questions please contact me at 304.212.0422 or by email at hmedley@nne-llc.com.

Sincerely,

Hollie M. Medley Regulatory Manager

Hollimmedly

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UCT 11 2017

WW-9 (2/15)

API Number 47 -	I Number 47	_
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Operator's Well No. MEPCO 16H

# 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
Operator Name NORTHEAST NATURAL ENERGY LLC  Watershed (HUC 10) JAKES RUN OF DUNKARD CREEK  Quadrangle BLACKSVILLE OF TOTAL COMMON COMMO
Do you anticipate using more than 5,000 bbls of water to complete the proposed well work? Yes No
If so, please describe anticipated pit waste: NA
Will a synthetic liner be used in the pit? Yes No If so, what ml.? NA
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, CaCI, BARITE, EMULSIFIERS, MICALCM, WATER LOSS AGENTS  RECEIVED.
Drill cuttings disposal method? Leave in pit, landfill, removed offsite, etc. REMOVED OFFSITE - PLEASE SEE ATTACHMENOTIACE of Oil and Gas
-If left in pit and plan to solidify what medium will be used? (cement, lime, sawdust)AUG 1 6 2017
-Landfill or offsite name/permit number? PLEASE SEE ATTACHMENT "A"  WW Department of Environmental Protect
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
Company Official (Typed Name) HOLLIE M MEDLEY  STATE OF WEST VIRGINIA
Company Official Title REGULATORY MANAGER  Shane Kennedy 230 Husgavarna Drive Engantown, WV 26508
Subscribed and sworn before me this 10 <sup>+1</sup> day of August Englishment Subscribed and sworn before me this 20/2
Notary Public
My commission expires 12/29/21

Operator's Well No. MEPCO 16H

Proposed Revegetation Tr	eatment: Acres Distu	12.80	Prevegeta	tion pH <u>5-7</u>
Lime 2	Tons/acre or	to correct to pH	7	
Fertilizer type 1	9-19-19			
Fertilizer amount	300	lb	os/acre	
Mulch_2		Tons/a	acre	
		Seed	470 d Mixtures	6101790
	Temporary			Permanent
Seed Type	lbs/acre		Seed Type	lbs/acre
Orchard Grass	46		Orchard Grass	46
Red Clover	8		Red Clover	8
Tetraploid Pere	nnial Rye 16		Tetraploid Peren	nial Rye 16
Timethy 15	A D	4 =		
provided)			Timothy 15  plication (unless engineered pl	Annual Rye 1 ans including this info have b
Attach: Drawing(s) of road, location provided) Photocopied section of invertible provided Plan Approved by:	on, pit and proposed a volved 7.5' topographi	area for land appoint of the sheet.	-	ans including this info have be
Attach: Drawing(s) of road, location provided) Photocopied section of inv	on, pit and proposed a volved 7.5' topographi	area for land appoint of the sheet.	plication (unless engineered pl	ans including this info have be
Attach: Drawing(s) of road, location provided) Photocopied section of invertible provided Plan Approved by:	on, pit and proposed a volved 7.5' topographi	area for land appoint of the sheet.	plication (unless engineered pl	ans including this info have be of Office of Office AUG 1
Attach: Drawing(s) of road, location provided) Photocopied section of invertible provided Plan Approved by:	on, pit and proposed a volved 7.5' topographi	area for land appoint of the sheet.	plication (unless engineered pl	ans including this info have be

# Attachment A to WW-9

Northeast Natural Energy LLC ("NNE") plans to utilize a closed loop process for its drilling of the MEPCO 16H 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 16H 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 (Rermit # 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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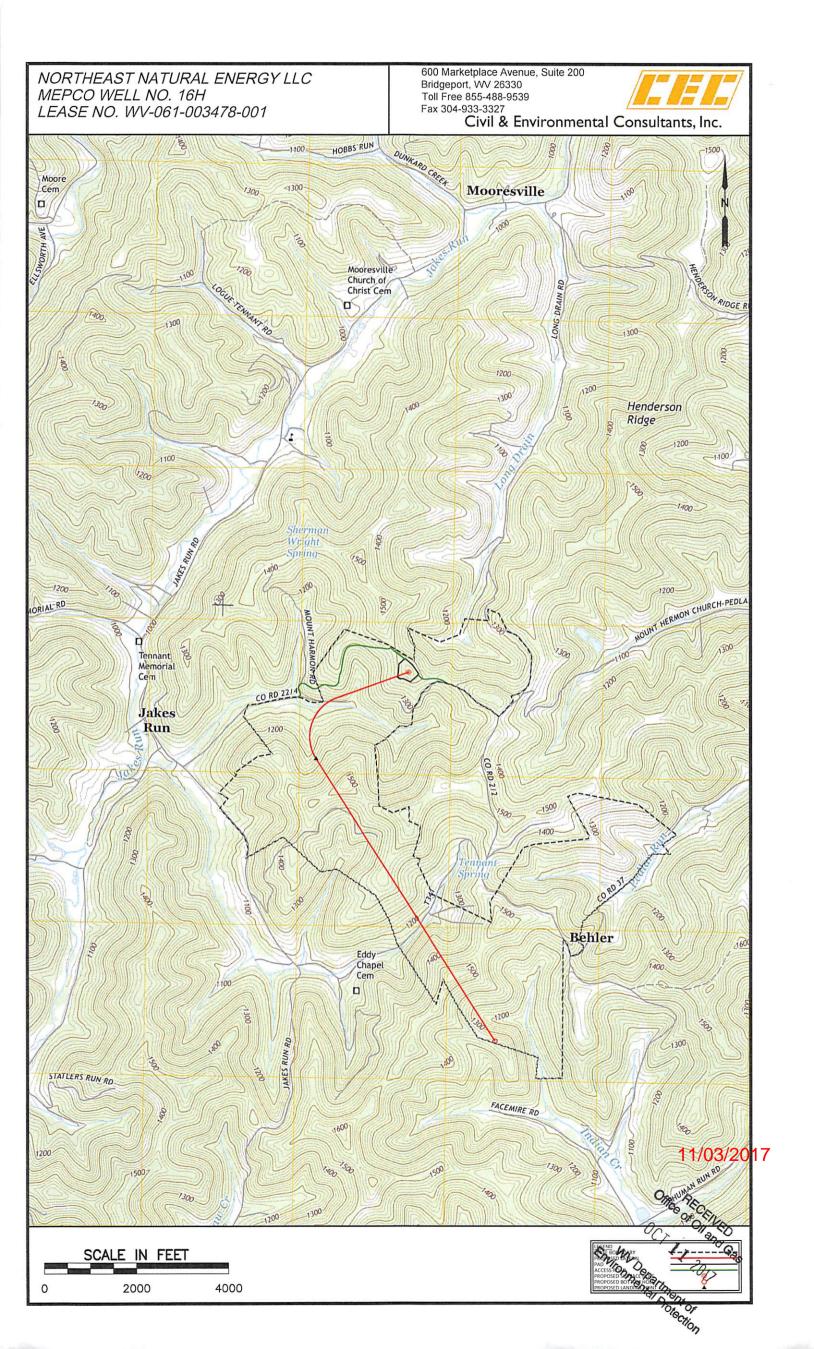
# MEPCO 16H SITE SAFETY PLAN

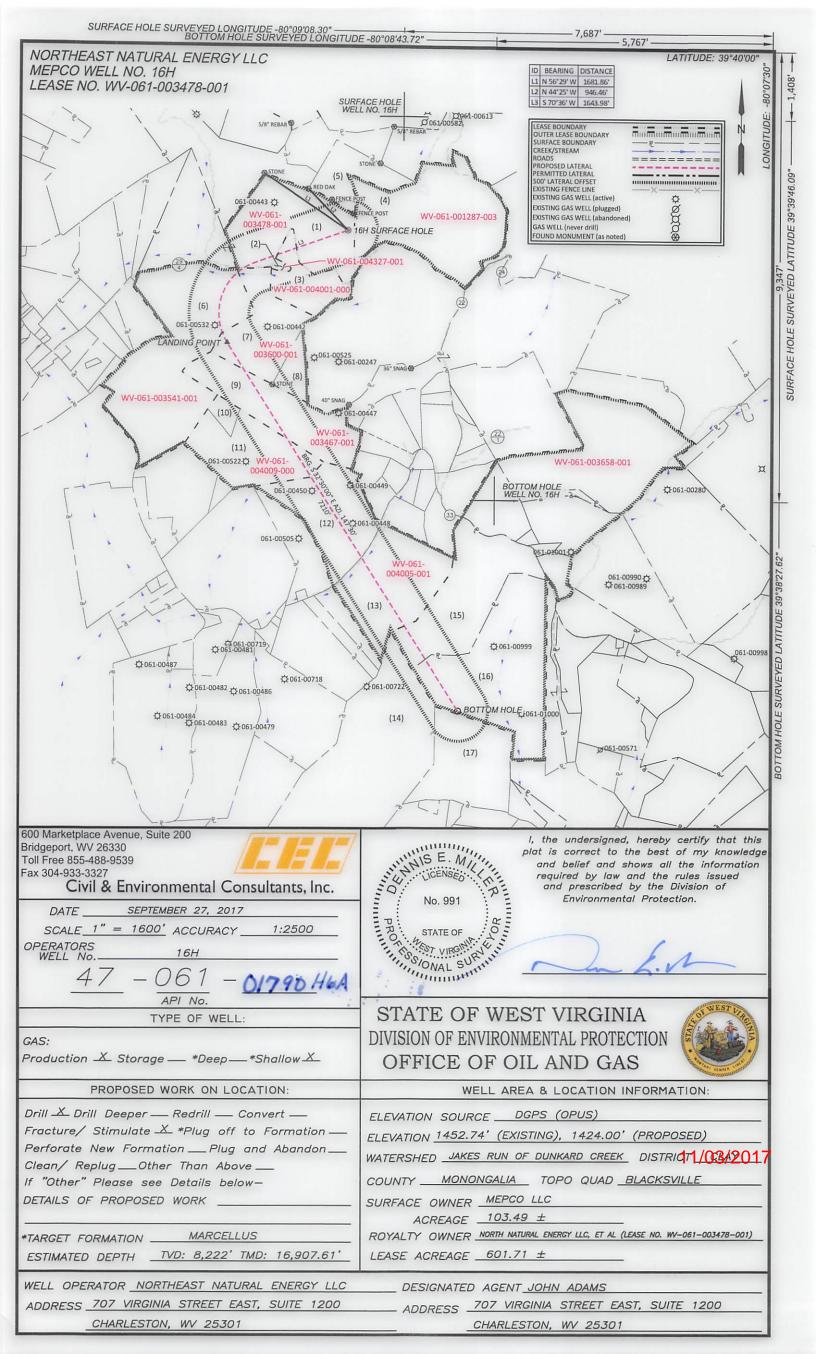
JULY 27, 2017

MgK 8/10/2017

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> > AUG 1 6 2017





TOP HOLE (NAD 83) N) 424193.64 E) 1784864.49 LAT.) 39\*39'46.09\* LONG.) 80\*09'08.30\* DEC. LAT.) 39.662803 EC. LONG.) -80.152207

LP (NAD 83) N) 422321.26 E) 1782856.01 LAT.) 39°35'27.44" LONG.) 80°09'33.81" DEC. LAT.) 39.657622 DEC. LONG.) -80.159392

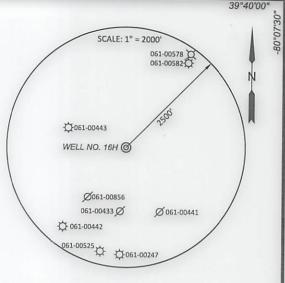
TOP HOLE (NAD 27)
N 424156.57
E) 1816301.32
LAT) 39°39'45.80°
LONG) 80°09'09.05°
DEC. LAT), 39.662723
DEC. LONG,) -80.152513
DEC. LONG,] -80.152513
DEC. LONG,] -80.15959

BOTTOM HOLE (NAD 83) NJ 416240.72 E) 1786729.74 LAT, 39"38"27.62" LONG.) 80"88"43.72" DEC. LATJ, 39.641006 DEC. LONG.) -80.145478

BOTTOM HOLE (NAD 27)
N) 416203.59
E) 1818166.78
LAT.) 39°38'27.33"
LONG.) 80°08'44.46"
DEC. LAT.) 39.640926
DEC. LONG.) -80.145684

TAG	OWNER	DIST-TM-PAR	AC. ±
	MEPCO LLC	4 - 16 - 48.3	103.49
2	DOWNEY HAROLD FOX EST	4 - 16 - 47	0.86
3	DOWNEY HAROLD FOX EST	4 - 16 - 46	21.9
4	CONSOL MINING COMPANY LLC	4 - 16 - 54	84.14
5	CONSOL MINING COMPANY LLC	4 - 16 - 52	19.97
6	A. KEITH MICHAEL, ET AL	4 - 16 - 48	206.00
7	A. KEITH MICHAEL, ET AL	4 - 16 - 45	35.53
8	A. KEITH MICHAEL, ET AL	4 - 16 - 44	8.20
9	A. KEITH MICHAEL, ET AL	4 - 16 - 43	45.00
10	DAVID W. FRAZIER	4-16-42	4.50
11	DAVID W. FRAZIER	4 - 16 - 41	40.23
12	DAVID P. WALKER ET AL	4 - 16 - 39	48.00
13	GEORGE H. RUCKLE	4 - 21 - 19	48.00
14	MICHAEL MCMASTER	4 - 21 - 40	136.50
15	MARK & BETTY EDDY, ET AL	4 - 21 - 20	58.91
16	MARK & BETTY EDDY, ET AL	4 - 21 - 21	83.46
17	KEVIN A. & CARRIE L. SMITH	4 - 21 - 39	49.00

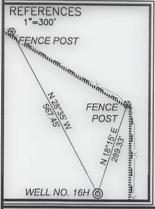
SURFACE HOLE WELL NO. 16H TOP HOLE (UTM NAD 83) N) 4390676.07 E) 572714.00 N) 4390095.38 E) 572111.60 BOTTOM HOLE (UTM NAD 83)



SURFACE HOLE SURVEYED LATITUDE 39°39'46.09"

BOTTOM HOLE WELL NO. 16H

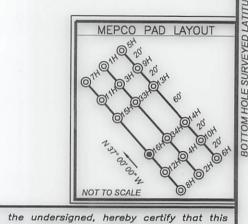
(+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS



NOTES ON SURVEY

- NO OCCUPIED DWELLINGS OR BUILDINGS 2500 SQUARE FEET OR LARGER USED TO HOUSE OR SHELTER DAIRY CATTLE OR POUL TRY HUSBANDRY WITHIN 625' OF THE CENTER OF THE WELL PAD WERE OBSERVED. NO WATER WELLS OR DEVELOPED SPRINGS USED FOR HUMAN OR DOMESTIC ANIMAL CONSUMPTION WERE

- 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



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.

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

Civil & Environmental Consultants, Inc.

SEPTEMBER 27, 2017 SCALE\_1" = 1600' ACCURACY\_ 16H

API No.

TYPE OF WELL

Production X Storage — \*Deep — \*Shallow X

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

ELEVATION SOURCE \_\_\_ DGPS (OPUS)

No. 991

No. 991

STATE OF

ONAL SURMING



# PROPOSED WORK ON LOCATION:

Drill X Drill Deeper — Redrill — Convert -Fracture/ Stimulate X \*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 

COUNTY \_\_\_\_MONONGALIA\_\_ TOPO QUAD \_BLACKSVILLE SURFACE OWNER MEPCO LLC ACREAGE \_\_ 103.49 ± ROYALTY OWNER NORTH NATURAL ENERGY LLC, ET AL (LEASE NO. WV-061-003478-001) LEASE ACREAGE 601.71 ±

WATERSHED JAKES RUN OF DUNKARD CREEK DISTRICT 1/03/201

ELEVATION 1452.74' (EXISTING), 1424.00' (PROPOSED)

WELL AREA & LOCATION INFORMATION:

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



W	W	-6A	1
(5)	/13	(	

O	perator	's	Well	No.	MEPCO 16H	
$\mathbf{C}$	perator	0	VV CII	INU.		

# 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

\*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 needed 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	
Its:	Regulatory Manager	RECEIVED Gas
		Office of Oil and Gar

Page 1 of 7 OCT 11 2017

11/Q3/26 Invent of Environmental Protection

Operator's Well No.

MEPCO 16H

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-061-003541-001	GARY G LORING	NORTHEAST NATURAL ENERGY LLC	DEED	1548/750
WV-061-004001-000	JOHN W 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 AND AMANDA WRIGHT	*SOUTH PENN OIL CO	0.125 OR GREATER	39/202
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-061-001287-003	ASHCRAFT, RICKY LYNN	*CHESAPEAKE APPALACHIA LLC	0.125 OR GREATER	1370/313
WV-061-001287-004	ASHCRAFT, CHARLES FRANCIS	*CHESAPEAKE APPALACHIA LLC	0.125 OR GREATER	1371/437
WV-061-001291-001	CRANE, SHIRLEY MARIE ASHCRAFT	*CHESAPEAKE APPALACHIA LLC	0.125 OR GREATER	1370/316
WV-061-001291-002	ASHCRAFT, JAMES PATRICK	*CHESAPEAKE APPALACHIA LLC	0.125 OR GREATER	1370/319
WV-061-001291-003	STATLER, DORIS PAULINE	*CHESAPEAKE APPALACHIA LLC	0.125 OR GREATER	1485/760
WV-061-001291-004	ASHCRAFT, JOHN RICHARD	*CHESAPEAKE APPALACHIA LLC	0.125 OR GREATER	1488/417
WV-061-001291-005	THE HENRIETTA HANULA TRUST	*CHESAPEAKE APPALACHIA LLC	0.125 OR GREATER	1510/387
WV-061-001291-014	VARNER, JOY	*CHESAPEAKE APPALACHIA LLC	0.125 OR GREATER	1485/771
WV-061-001291-015	KETCHEM, JOYCE	*CHESAPEAKE APPALACHIA LLC	0.125 OR GREATER	1487/371
WV-061-001291-016	KING, CHRISTINA J.	*CHESAPEAKE APPALACHIA LLC	0.125 OR GREATER	1487/372
WV-061-001291-018	BANE, JANET S.	NORTHEAST NATURAL ENERGY LLC	0.125 OR GREATER	1510/244
WV-061-001291-019	TENNANT, HARRY R.	*CHESAPEAKE APPALACHIA LLC	0.125 OR GREATER	1485/175
WV-061-004001-000	WRIGHT, JOHN W.	*SOUTH PENN OIL CO	0.125 OR GREATER	39/202
WV-061-003600-001	GARY G LORING	NORTHEAST NATURAL ENERGY LLC	DEED	1550/343
WV-061-004001-000	JOHN W AND AMANDA WRIGHT	*SOUTH PENN OIL CO	0.125 OR GREATER	39/202
WV-061-003467-001	MARILYN DARLENE JOSHI AND TULASI R JOSHI	NORTHEAST NATURAL ENERGY LLC	DEED	1516/564
WV-061-004003-000	NOAH WRIGHT	*JW SCOTT	0.125 OR GREATER	25/443
WV-061-004327-001	REED ENERGY SERVICES LLC	NORTHEAST NATURAL ENERGY LLC	DEED	1577/831
WV-061-002837-001	NANCY ARLENE PRICE	*CHESAPEAKE APPALACHIA LLC	0.125 OR GREATER	1424/777
WV-061-004009-000	EZRA TENNANT AND CASANDRA TENNANT	*SOUTH PENN OIL CO	0.125 OR GREATER	
WV-061-003618-001	SHUMAN, INC	NORTHEAST NATURAL ENERGY LLC	0.125 OR GREATER	1539/411
WV-061-003554-001	JUNE C MYERS	NORTHEAST NATURAL ENERGY LLC	0.125 OR GREATER	1523/795
WV-061-003554-002	RUTH J MONTILOR	NORTHEAST NATURAL ENERGY LLC	0.125 OR GREATER	1535/39
WV-061-003554-003	ALEXANDRA D DIERINGER	NORTHEAST NATURAL ENERGY LLC	0.125 OR GREATER	5133/82
WV-061-003554-004	HAPPY ENDINGS LLC	NORTHEAST NATURAL ENERGY LLC	0.125 OR GREATER	1534/116
WV-061-003554-005	JANET D SHIPLEY	NORTHEAST NATURAL ENERGY LLC	0.125 OR GREATER	1591/641
WV-061-003483-001	HERV OIL LLC	*EM1 ENERGY INC	0.125 OR GREATER	1501/278
WV-061-003483-002	ANDREW SOLOMON	*EM1 ENERGY INC	0.125 OR GREATER	1501/740
WV-061-003554-001	JUNE C MYERS	NORTHEAST NATURAL ENERGY LLC	0.125 OR GREATER	1501/740 150595ED 150599 and
WV-061-003554-002	RUTH J MONTILOR	NORTHEAST NATURAL ENERGY LLC	0.125 OR GREATER Offi	<b>1,2693/3</b> 9
WV-061-003554-003	ALEXANDRA D DIERINGER	NORTHEAST NATURAL ENERGY LLC	0.125 OR GREATER	1 7 T L
WV-061-003554-004	HAPPY ENDINGS LLC	NORTHEAST NATURAL ENERGY LLC	0.125 OR GREATER	1594/116

Department of Protection Environment 17

WV-061-003554-005	JANET D SHIPLEY	NORTHEAST NATURAL ENERGY LLC	0.125 OR GREATER	1591/641
WV-061-004005-000	JAMES S WALKER AND NANCY WALKER	NORTHEAST NATURAL ENERGY LLC	0.125 OR GREATER	26/273
WV-061-004005-001	KEVIN K CHUMNEY AND JANET L CHUMNEY	NORTHEAST NATURAL ENERGY LLC	DEED	1581/250
WV-061-004005-002	DONNA JEAN SHELTON AND THOMAS C SHELTON	NORTHEAST NATURAL ENERGY LLC	0.125 OR GREATER	1591/700
WV-061-004005-003	JANET DUNN AND LAWRENCE DUNN	NORTHEAST NATURAL ENERGY LLC	0.125 OR GREATER	1598/595
WV-061-004314-001	REED ENERGY SERVICES LLC	NORTHEAST NATURAL ENERGY LLC	DEED	1580/200
WV-061-004005-000	JAMES S WALKER AND NANCY WALKER	NORTHEAST NATURAL ENERGY LLC	0.125 OR GREATER	26/273
WV-061-004005-001	KEVIN K CHUMNEY AND JANET L CHUMNEY	NORTHEAST NATURAL ENERGY LLC	DEED	1581/250
WV-061-004005-002	DONNA JEAN SHELTON AND THOMAS C SHELTON	NORTHEAST NATURAL ENERGY LLC	0.125 OR GREATER	1591/700
WV-061-004005-003	JANET DUNN AND LAWRENCE DUNN	NORTHEAST NATURAL ENERGY LLC	0.125 OR GREATER	1598/595
WV-061-004314-001	REED ENERGY SERVICES LLC	NORTHEAST NATURAL ENERGY LLC	DEED	1580/200
WV-061-004017-000	JARRETT WILDMAN, ET AL	*JW SCOTT	0.125 OR GREATER	27/145
WV-061-003658-001	MICHAEL L AND TERRY STRAIGHT	NORTHEAST NATURAL ENERGY LLC	DEED	1542/110
WV-061-003658-002	SHARON L BEST	NORTHEAST NATURAL ENERGY LLC	DEED	1541/421
WV-061-003658-003	DOUGLAS J KENNETT	NORTHEAST NATURAL ENERGY LLC	DEED	1547/797
WV-061-003658-004	DAVID L AND ELIZABETH CAROL STRAIGHT	NORTHEAST NATURAL ENERGY LLC	DEED	1556/552
WV-061-004020-000	MARK V AND BETTY A EDDY	NORTHEAST NATURAL ENERGY LLC	DEED	1505/572

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Office of Oil and Gas

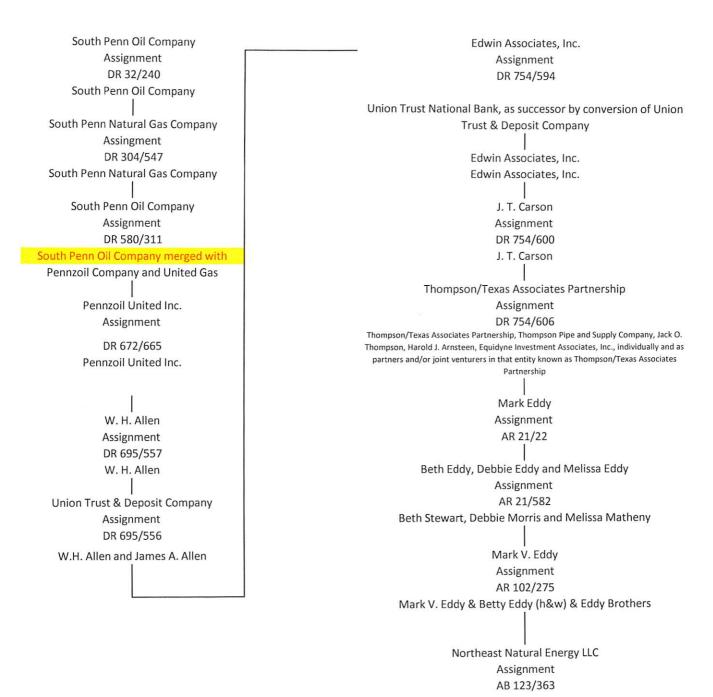
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WV Department of Emironmental Protection

Chesapeake Appalachia, LLC.

Northeast Natural Energy Assignment BK 120/769

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WV Department of
Environmental Protection
11/03/2017

EM1 Energy Inc.

AS 125/638

D: 12/18/2014

R: 6/9/2015

Northeast Natural Energy LLC

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Environmental Protection
Environmental Protection

J. W. Scott Lease Edwin Associates, Inc. DR 27/145 Assignment J. W. Scott DR 754/594 William Munhall and George P. Hukill Union Trust National Bank, as successor by conversion of Union Assignment Trust & Deposit Company DR 28/447 William Munhall and George P. Hukill and J. Edwin Associates, Inc. W, Scott, doing business as Mountain State Assignment DR 754/598 Oil Company Edwin Associates, Inc. South Penn Oil Company Assignment J. T. Carson DR 32/240 Assignment South Penn Oil Company DR 754/600 J. T. Carson South Penn Natural Gas Company Assingment Thompson/Texas Associates Partnership DR 304/547 Assignment South Penn Natural Gas Company 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 South Penn Oil Company Assignment Mark Eddy Assignment DR 580/311 AR 21/22 Thompson/Texas Associates Partnership, Thompson Pipe and Supply Company, Jack O. Thompson, Harold J. Arnsteen, Equidyne Investment Associates, Inc., individually and as South Penn Oil Company merged with partners and/or joint venturers in that entity known as Thompson/Texas Associates Partnership Pennzoil Company on July 31, 1963 Pennzoil Company and United Gas Corporation Beth Eddy, Debbie Eddy and Melissa Eddy Assignment Pennzoil United Inc. AR 21/582 Assignment Beth Stewart, Debbie Morris and Melissa Matheny DR 672/665 Pennzoil United Inc. Mark V. Eddy Assignment W. H. Allen AR 102/275 Assignment Mark V. Eddy & Betty Eddy (h&w) & Eddy Brothers DR 695/557 W. H. Allen Union Trust & Deposit Company Northeast Natural Energy LLC Assignment Assignment AB 123/363 DR 695/556 W. H. Allen and James A. Allen

WW-60 (7-01)

State of West Virginia

DATE: August 14th , 20 17
OPERATOR'S WELL NO. MEPCO 2H, 4H, 6H, 8H, 10H 12H, 14H

API NO: <u>47-</u>

State County Permit No.

4706101790

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

AFFIDAVIT

County of Monongalia
Jeannie Morgan Johnson (the designated owner or operator, or authorized representative thereof), after being duly sworn, do declare that the undersigned is authorized by the owner of the working interest in the well permit application to which this affidavit is attached to state that (he, she, or it) shall tender to the owner of the oil and gas in place not less than one-eighth of the total amount paid to or received by or allowed to the owner of the working interest at the wellhead for the oil or gas so extracted, produced, or marketed before deducting the amount to be paid or set aside for the owner of the oil or gas in place, or all such oil or gas to be extracted, produced, or marketed from the well. West Virginia Code 22-6-8(e).
Signed: Mulli Mugnithm  Taken, subscribed and sworn to before me this 14th day of  Brenda Malone - Pen Office of Oil and Gas  Notary Public AUG 16 2017
My Commission expires:

Official Seal
Notary Public, State of West Virginia
Brenda Malone-Pence
1007 24th Street
Parkersburg, WV 26101
My Commission Expires September 6, 2017



July 14, 2017

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

RE: MEPCO 2H, 4H, 6H, 8H, 10H, 12H, 14H and 16H

Dear Permit Reviewer:

Please be advised that Northeast Natural Energy LLC has the right to drill, extract and produce the minerals beneath the roads identified as Horace Thorn Road (State Route 33), Noah Wright Road (State Route 22/1), Long Drain Road (State Route 22), Mt. Hermon Road (State Route 29/4) and Pedlar Run (State Route 37) on the enclosed survey plat.

Sincerely,

Jeannie Morgan Johnson, CPL Vice President – Land Operations 4706101790

Enclosure

RECEIVED Office of Oil and Gas

AUG 1 6 2017

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

API No. 47- blol - 01090

Notice has been given:  Pursuant to the provisions in West Virginia Code § 22-6A, the Operator has provided the required parties with the Notice Forms listed below for the tract of land as follows:  State:  West Virginia  UTM NAD 83  Easting: Northing: Amonogala District: Clay Public Road Access: Clay Public Road Access: Slaue Found of Dunkard Crook  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 (it has provided the owners of the surface described in subdivisions (1), (2) and (4), subsection (b), section interest of this article; (ii) that the requirement was deemed satisfied as a resul of giving the surface owner notice of entry to survey pursuant to subsection (a), section ten of this article six-a; or (iii) the notic 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 to West Virginia Code § 22-6A, the Operator has attached proof to this Notice Certification  Pursuant to West Virginia Code § 22-6A, the Operator has attached proof to this Notice Certification from that the Operator has properly served the required parties with the following:  *PLEASE CHECK ALL THAT APPLY  1. NOTICE OF ENTRY FOR PLAT SURVEY or NOTICE NOT REQUIRED BECAUSE NO SEISMIC ACTIVITY WAS CONDUCTED  2. NOTICE OF ENTRY FOR PLAT SURVEY or NOTICE NOTICE NOTICE OF ENTRY FOR PLAT SURVEY WAS CONDUCTED  3. NOTICE OF ENTRY FOR PLAT SURVEY WAS CONDUCTED  4. NOTICE OF PLANNED OPERATION  3. NOTICE OF PLANNED OPERATION  4. NOTICE OF PLANNED OPERATION  5. PUBLIC NOTICE  6. NOTICE OF APPLICATION	Date of Notice Certification: 08/14/2017		AP	API No. 47- <b>b6</b> - <b>01790</b> Operator's Well No. MEPCO 16H		
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:  Vest Virginia  Quadrangle:  Blackswille  Watershed:  Jakes Run of Dunkard Creek  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 (it is has provided the owners of the surface described in subdivisions (1), (2) and (4), subsection (b), section ten of this article, th information required by subsections (b) and (c), section istxeen of this article; (ii) that the requirement was deemed satisfied as a resul of giving the surface owner notice of entry to survey pursuant to subsection (a), section ten of this article six-a; or (iii) the notic 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, 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**  1. NOTICE OF SEISMIC ACTIVITY or NOTICE NOT REQUIRED BECAUSE NO SEISMIC ACTIVITY WAS CONDUCTED  3. NOTICE OF ENTRY FOR PLAT SURVEY or NOTICE NOT REQUIRED BECAUSE NO SEISMIC ACTIVITY WAS CONDUCTED  WRITTEN WAIVER BY SURFACE OWNER  (PLEASE ATTACH)  WRITTEN WAIVER BY SURFACE OWNER  (PLEASE ATTACH)  RECEIVED  RECEIVED  RECEIVED  RECEIVED  RECEIVED  RECEIVED						50 1011
Pursuant to the provisions in West Virginia Code § 22-6A, the Operator has provided the required parties with the Notice Forms listed below for the tract of land as follows:  State:  West Virginia County: Monongalia District: Clay Quadrangle: Blackswille Watershed: Jakes Run of Dunkard Creek  Public Road Access Generally used farm name:  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 (it in has provided the owners of the surface described in subdivisions (1), (2) and (4), subsection (b), section ten of this article, thinformation 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 starticle 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 subsection (b), section sixteen of this article were waived in writing by the surface owner; and 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:  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:  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:  Pursuant to West Virginia Code § 22-6A, the Operator has attached proof to this Notice Certification  Water Pursuant to West Virginia Code § 22-6A, the Operator has properly served the required parties with the following:  Pursu	Notice has b	een given:				
State: West Virginia UTM NAD 83	Pursuant to th	e provisions in West Virginia Code § 3	22-6A, the Operator has provide	d the requi	red parties w	ith the Notice Forms listed
County: Monongalia	below for the	tract of land as follows:				
County: Monogala District: Clay		West Virginia			72714.00	
Quadrangle: Watershed: Jakes Run of Dunkard Creek  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 that 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 notic 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  1. NOTICE OF SEISMIC ACTIVITY or NOTICE NOT REQUIRED BECAUSE NO SEISMIC ACTIVITY WAS CONDUCTED  2. NOTICE OF ENTRY FOR PLAT SURVEY or NOTICE NOT REQUIRED BECAUSE NOTICE OF ENTRY FOR PLAT SURVEY WAS CONDUCTED  3. NOTICE OF INTENT TO DRILL or NOTICE NOT REQUIRED BECAUSE NOTICE OF ENTRY FOR PLAT SURVEY WAS CONDUCTED  4. NOTICE OF PLANNED OPERATION  4. NOTICE OF PLANNED OPERATION  3. PUBLIC NOTICE  4. NOTICE OF PLANNED OPERATION  3. PUBLIC NOTICE  4. NOTICE OF PLANNED OPERATION  3. PUBLIC NOTICE			No	_	390676.07	
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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 (if 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**  1. NOTICE OF SEISMIC ACTIVITY or NOTICE NOT REQUIRED BECAUSE NO SEISMIC ACTIVITY WAS CONDUCTED  2. NOTICE OF ENTRY FOR PLAT SURVEY or NOTICE NOT REQUIRED BECAUSE NO SEISMIC ACTIVITY WAS CONDUCTED  3. NOTICE OF INTENT TO DRILL or NOTICE NOT REQUIRED BECAUSE NOTICE OF ENTRY FOR PLAT SURVEY WAS CONDUCTED  WRITTEN WAIVER BY SURFACE OWNER (PLEASE ATTACH)  4. NOTICE OF PLANNED OPERATION  4. NOTICE OF PLANNED OPERATION  5. PUBLIC NOTICE  RECEIVED  RECEIVED  RECEIVED			Generally used farm	name: N	MEPCO LLC	
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 is tricle, this article; (ii) that the requirement was deemed satisfied as a resul of giving the surface owner notice of entry to survey pursuant to subsection (a), section is tricle; (ii) that the requirement was deemed satisfied as a resul of giving the surface owner notice of entry to survey pursuant to subsection (a), section ten of this article six-a; or (iii) the notic 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**  1. NOTICE OF SEISMIC ACTIVITY or NOTICE NOT REQUIRED BECAUSE NO SEISMIC ACTIVITY WAS CONDUCTED  2. NOTICE OF ENTRY FOR PLAT SURVEY or NOTICE NOT REQUIRED BECAUSE NOTICE OF ENTRY FOR PLAT SURVEY WAS CONDUCTED  3. NOTICE OF INTENT TO DRILL or NOTICE NOT REQUIRED BECAUSE NOTICE OF ENTRY FOR PLAT SURVEY WAS CONDUCTED RECEIVED  4. NOTICE OF PLANNED OPERATION  4. NOTICE OF PLANNED OPERATION  5. PUBLIC NOTICE  7. RECEIVED  RECEIVED  RECEIVED  RECEIVED  RECEIVED  RECEIVED  RECEIVED	Watershed:	Jakes Run of Dunkard Creek				
that the Operator has properly served the required parties with the following:  *PLEASE CHECK ALL THAT APPLY  1. NOTICE OF SEISMIC ACTIVITY or NOTICE NOT REQUIRED BECAUSE NO SEISMIC ACTIVITY WAS CONDUCTED  2. NOTICE OF ENTRY FOR PLAT SURVEY or NO PLAT SURVEY WAS CONDUCTED  3. NOTICE OF INTENT TO DRILL or NOTICE NOT REQUIRED BECAUSE NOTICE OF ENTRY FOR PLAT SURVEY WAS CONDUCTED OR WRITTEN WAIVER BY SURFACE OWNER (PLEASE ATTACH)  4. NOTICE OF PLANNED OPERATION  5. PUBLIC NOTICE  *PLEASE ATTACH PROOF OF PLANNED OPERATION  **RECEIVED NOTICE OF PLANNED OPERATION  **RECEIVED RECEIVED  **RECEIVED RECEIVED  **RECEIVED	it has provide information re of giving the requirements Virginia Code	ed the owners of the surface describe equired by subsections (b) and (c), sectionsurface owner notice of entry to survivor subsection (b), section sixteen of § \$22-6A-11(b), the applicant shall ter	ed in subdivisions (1), (2) and to sixteen of this article; (ii) the vey pursuant to subsection (a), this article were waived in wrinder proof of and certify to the s	(4), subsection the section terms the ting by the	etion (b), sec irement was n of this artic e surface ow	tion ten of this article, the deemed satisfied as a resul- ele six-a; or (iii) the notice ner; and Pursuant to Wes
SEISMIC ACTIVITY WAS CONDUCTED  2. NOTICE OF ENTRY FOR PLAT SURVEY or \Bigcirc NO PLAT SURVEY WAS CONDUCTED  3. NOTICE OF INTENT TO DRILL or \Bigcirc NOTICE NOT REQUIRED BECAUSE NOTICE OF ENTRY FOR PLAT SURVEY WAS CONDUCTED or \Bigcirc WRITTEN WAIVER BY SURFACE OWNER (PLEASE ATTACH)  4. NOTICE OF PLANNED OPERATION  5. PUBLIC NOTICE  NOT REQUIRED  NOT REQUIRED  RECEIVED  RECEIVED	*PLEASE CHE	rator has properly served the required	parties with the following:			ONLY
■ 3. NOTICE OF INTENT TO DRILL OF NOTICE NOT REQUIRED BECAUSE NOTICE OF ENTRY FOR PLAT SURVEY WAS CONDUCTED OF WRITTEN WAIVER BY SURFACE OWNER (PLEASE ATTACH)  ■ 4. NOTICE OF PLANNED OPERATION  ■ 5. PUBLIC NOTICE  □ RECEIVED □ RECEIVED □ RECEIVED						
NOTICE OF ENTRY FOR PLAT SURVEY WAS CONDUCTED or  WRITTEN WAIVER BY SURFACE OWNER (PLEASE ATTACH)  4. NOTICE OF PLANNED OPERATION  RECEIVED  RECEIVED	■ 2. NOT	TICE OF ENTRY FOR PLAT SURVE	EY or \( \square\) NO PLAT SURVEY	WAS CON	NDUCTED	☐ RECEIVED
■ 5. PUBLIC NOTICE	■ 3. NOT		NOTICE OF ENTRY FOR PLA WAS CONDUCTED or  WRITTEN WAIVER BY	T SURVE	4 7 9 C	
	■ 4. NOT	TICE OF PLANNED OPERATION				☐ RECEIVED
■ 6. NOTICE OF APPLICATION	■ 5. PUB	BLIC NOTICE				☐ RECEIVED
	■ 6. NO	TICE OF APPLICATION				☐ RECEIVED

## Required Attachments:

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

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# Certification of Notice is hereby given:

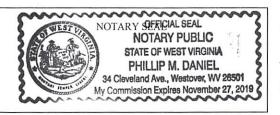
THEREFORE, I Hollie M. Medley, have read and understand the notice requirements within West Virginia Code § 22-6A. I certify that as required under West Virginia Code § 22-6A, I have served the attached copies of the Notice Forms, identified above, to the required parties through personal service, by registered mail or by any method of delivery that requires a receipt or signature confirmation. I certify under penalty of law that I have personally examined and am familiar with the information submitted in this Notice Certification and all attachments, and that based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the information is true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.

 Well Operator:
 Northeast Natural Energy LLC
 Address:
 707 Virginia Street East, Suite 1200

 By:
 Hollie M. Medley
 Charleston, WV 25301

 Its:
 Regulatory Manager
 Facsimile:
 304.241.5972

 Telephone:
 304.212.0422
 Email:
 hmedley@nne-llc.com



Subscribed and sworn before me this 14th day of Agust 2017

Dullip An Daniel Notary Public

My Commission Expires 11 (27 / 2019

# 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 <a href="deprivacyofficer@wv.gov">deprivacyofficer@wv.gov</a>.

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AUG 1 6 2017

API NO. 47- 6 - 01790
OPERATOR WELL NO. MEPCO 16H
Well Pad Name: MEPCO

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

Notio	e Time Requirement	: notice shall be provi	ed no later than the filing	g date of permit application.	
Date Notic	·	Date Permit Applica	on Filed: 8/14/2017		
<b>7</b>	PERMIT FOR ANY WELL WORK	<del></del>	ATE OF APPROVAL F JCTION OF AN IMPO		
Deliv	ery method pursuan	t to West Virginia Co	le § 22-6A-10(b)		
	PERSONAL SERVICE	REGISTERED MAIL		ELIVERY THAT REQUIRES A GNATURE CONFIRMATION	
sediment the survival oil and description operation of the survival of the sur	tent control plan require inface of the tract on which digas leasehold being dibed in the erosion and tor or lessee, in the event coal seams; (4) The own work, if the surface tract andment or pit as descript a water well, spring or with the work activity is compared to the section (b) of this section did not the sheriff require sion of this article to the R. § 35-8-5.7.a require	ed by section seven of the control by the proposed sediment control plan is the tract of land on we track the control plan is the tract of land on we track the proposed in section nine of the water supply source locus by humans or domestic to take place. (c)(1) I hold interests in the land to be maintained pursue contrary, notice to a lies, in part, that the oper	is article, and the well pla osed to be located; (2) The d well work, if the surface bmitted pursuant to subset iich the well proposed to face tract or tracts overlying cement, construction, enlar is article; (5) Any surface the within one thousand for continuals; and (6) The op- more than three tenants in dis, the applicant may servant to section eight, articlen holder is not notice to a for shall also provide the	e confirmation, copies of the application, to to each of the following persons: (1) The electric of the surface tract or the tract is to be used for roads or other land ection (c), section seven of this article; (3) be drilled is located [sic] is known to be using the oil and gas leasehold being developangement, alteration, repair, removal or able towner or water purveyor who is known to revenue to any natural gas storage field with a common or other co-owners of interests the documents required upon the personal element, unless the lien holder is the lawell Site Safety Plan ("WSSP") to the surd in section 15 of this rule.	e owners of record of tracts overlying the d disturbance as The coal owner, underlain by one or ped by the proposed candonment of any to the applicant to pad which is used to thin which the described in n described in the Notwithstanding any andowner. W. Va.
	oplication Notice   RFACE OWNER(s)	WSSP Notice ☐ E&	☑ COAL	Plat Notice is hereby provided to: OWNER OR LESSEE	
	Please See Attached		_	Please See Attached	
Addr	ess:		Address:		† 7 9 0
Nam				OPERATOR	- <del></del>
Addr	ess:		Name:		
IZI SU	RFACE OWNER(s) (	Road and/or Other Dis	urbance)		<del>_</del>
	e: Please See Attached		□ SURF	ACE OWNER OF WATER WELL	
				R WATER PURVEYOR(s)	
			<del></del>	Please See Attached	
Nam	e:			·	<del>_</del>
Addr	ess:		T OPER	ATOR OF ANY NATURAL GAS STO	 ORAGE FIELD
	REACE OWNER(s) (	Impoundments or Pits	Name:	MOROL MATERIAL CASSIO	RECEIVED, Con
			Address:	:	Office of Oil and Gas
Addr	ess:			attach additional forms if necessary	— AUG 1 6 2017
			· ricase a	mach additional forms if necessary	
					WV Department of Environmental Protection

API NO. 47- 4 - 0 1790
OPERATOR WELL NO. MEPCO 16H
Well Pad Name: MEPCO

## 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 57<sup>th</sup> Street, SE, Charleston, WV 25304 (304-926-0450) or by visiting <a href="https://www.dep.wv.gov/oil4016">www.dep.wv.gov/oil4016</a> 1 6 2017 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

API NO. 47-61 - 01790
OPERATOR WELL NO. MEPCO 16H
Well Pad Name: MEPCO

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 6705909790 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:

RECEIVED
Office of Oil and Gas

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

AUG 1 6 2017

WV Department of Environmental Protection

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.

API NO. 47- 61 - 01790 OPERATOR WELL NO. MEPCO 16H Well Pad Name: MEPCO

#### 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 <a href="http://www.dep.wv.gov/oil-and-gas/Horizontal-">http://www.dep.wv.gov/oil-and-gas/Horizontal-</a> 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 4706101790 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.

> RECEIVED Office of Oil and Gas

AUG 1 6 2017

WW-6A (8-13)

API NO. 47-OPERATOR WELL NO. MEPCO 16H Well Pad Name: MEPCO

Notice is hereby given by:

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

Charleston, WV 25301

Facsimile: 304-241-5972

Address: 707 Virginia Street E., Suite 1200

#### 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.

OFFICIAL SEAL NOTARY PUBLIC STATE OF WEST VIRGINIA PHILLIP M. DANIEL 34 Cleveland Ave., Westover, WV 26501 Commission Evnires November 27, 2019

Subscribed and sworn before me this 14th day of August 2017. Notary Public

My Commission Expires

4706101790

RECEIVED Office of Oil and Gas

AUG 1 6 2017

WW-6A MEPCO 16H

# 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
308 Dents Run
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

### **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 4706904790

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AUG 1 6 2017

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

RECEIVED Office of Oil and Gas

AUG 1 6 2017

41-01790 WATER SOURCE LOCATIONS FOR MEPCO Well Pad NORTH Office of Oil and Gas ironmental Protection 2,000' 1,500 12/21/2015 (mfrank, TOPO.mxd LEGEND 0021 WATER WELL CENTER HOLE WELL SPRING ACCESS ROAD 1,500' RADIUS 00211150445 2,000 RADIUS TAX PARCELS REFERENCE 1. USGS TOPOGRAPHIC MAP/ ARCGIS MAP SERVICE: eport/P:\2015\150-445\-G\S\Maps\Task SCALE IN FEET HTTP://GOTO.ARCGISONLINE.COM/MAPS/USA\_TOPO\_MAPS, ACCESSED 12/23/2015 1,600 BLACKSVILLE, WEST VIRGINIA QUAD NORTHEAST NATURAL ENERGY LLC MEPCO PAD MONONGALIA COUNTY, WEST VIRGINIA Civil & Environmental Consultants, Inc. 600 Marketplace Suite 200 - Bridgeport, WV 26330-2820 Ph: 304-933-3119 Toll: 855-488-9539 Fax: 304-933-3327 WATER SOURCES FOR MEPCO PAD

www.cecinc.com APPROVED BY: "Hand signature SAC" DRAWN BY: MAF CHECKED BY: 1 " = 800 ' 150-445.0021 DATE: 12/21/2015 SCALE: PROJECT NO:

FIGURE NO:

**W/0**3/2017

**MEPCO** 

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

TMP 16-49
Diane K. Braun, co-executrix of James E. Fletcher Estate
44 Luther Park Road
Fairview, WV 26570

TMP 16-43 William D. Statler 578 Long Drain Road, Core, WV 26541

6,706,730

RECEIVED Office of Oil and Gas

AUG 1 6 2017

WW-6A3 (1/12)

Operator Well No. MEPCO

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

on to the surface tract to conduct any plat surveys required pursuant to this article. Such notice was 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: SEEATTACHMENT  Address:  Address:  Name: Address:  Name: SEEATTACHMENT  Address:  Name: Address:  Address:  Notice is hereby given:  Pursuant to West Virginia Code § 22-6A-10(a), notice is hereby given that the undersigned well operator is planning entry to conduct a plat survey on the tract of land as follows:  State:  West Virginia Code § 22-6A-10(a), notice is hereby given that the undersigned well operator is planning entry to conduct a plat survey on the tract of land as follows:  State:  West Virginia Code § 22-6A-10(a), notice is hereby given that the undersigned well operator is planning entry to conduct a plat survey on the tract of land as follows:  State:  West Virginia  Approx. Latitude & Longitude:  Assossa 4-572705 (UTM NAD 83)  District:  Clay  Watershed:  Dubard Greak  MEPCO  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 57 th Street, SE, Charleston, WV 25304 (304-296-0450). Ocipies of such docu	Notice Tim	e Requirement:	Notice shall be provide	ed at least SEVEN (7) da	nys but no more tha	n FORTY-FIVE (45	5) days prior to	
PERSONAL  REGISTERED  MAIL  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 give a statement that 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:  Approx. Latitude & Longitude:  Approx. Latitude & Longitude:  Apo		tice: 10/5/2015	Date of Planne	ed Entry: 10/13/2015				
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hmedley@nne-llc.com FaCSImile: 304-241-5972	valorina v tomo R	-	ii Energy LLC	Address:		uite 1200	1 0 2017	
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Oil and Gas Privacy Notice:  Wy Depart Prote				racsimile.	304-241-09/2		WV Department of Environmental Protection	

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

10706101750

RECEIVED Office of Oil and Gas

AUG 1 6 2017

### **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

> RECEIVED Office of Oil and Gas

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AUG 1 6 2017

WW-6A4 (1/12)

Operator Well No. MEPCO 16H

## 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 Date of Noti	Requirement: Notice shall be provided at leace: 08/04/2017 Date Permit	ast TEN (10) days prior to filing a t Application Filed: 08/14/2017	permit application.
Delivery me	thod pursuant to West Virginia Code § 22-0	6A-16(b)	
☐ HAND	CERTIFIED MAIL		
DELIVI	ERY RETURN RECEIPT REQUE	ESTED	
receipt reque drilling a hor of this subsection m	V. Va. Code § 22-6A-16(b), at least ten days pasted or hand delivery, give the surface owner rizontal well: <i>Provided</i> , That notice given puttion as of the date the notice was provided to ay be waived in writing by the surface owner. ble, facsimile number and electronic mail addr	notice of its intent to enter upon the rsuant to subsection (a), section tenthe surface owner: <i>Provided, how</i> The notice, if required, shall included.	e surface owner's land for the purpose of n of this article satisfies the requirements ever, That the notice requirements of this ude the name, address, telephone number,
Notice is he	ereby provided to the SURFACE,OWN	ER(s):	/
	OLIDATION COAL COMPANY	Name: MEPCOLLC	
	CENTER, 1000 CONSOL ENERGY DRIVE	Address: 103 CORPORATE D	AN VIOLETTIC CONT.
CAN	ONSBURG, PA 15317	MORGANTOWN, W	/V 26501
the surface of State: County: District: Quadrangle: Watershed:	wner's land for the purpose of drilling a horizon WEST VIRGINIA MONONGALIA CLAY  BLACKSVILLE  JAKES RUN OF DUNKARD CREEK	UTM NAD 83 Easting: Northing: Public Road Access:	Ilows: 572714.00 4390676.07 CR 29/4 MEPCO
Pursuant to facsimile numerical to ho	Shall Include: West Virginia Code § 22-6A-16(b), this not observed and electronic mail address of the ope rizontal drilling may be obtained from the Se 1 57 <sup>th</sup> Street, SE, Charleston, WV 25304 (304)	rator and the operator's authorize ecretary, at the WV Department of	d representative. Additional information f Environmental Protection headquarters,
Notice is he	ereby given by:		
	DT: NORTHEAST NATURAL ENERGY LLC	Authorized Representative:	Hollie Medley, Regulatory Manager
Address:	707 Virginia Street East, Suite 1200	Address:	48 Donley Street, Suite 601
	Charleston, WV 25301		Morgantown, WV 26501
Telephone:	304-414-7060	Telephone:	304-212-0422 RECEIVED Gas
Email:	hmedley@nne-llc.com	Email:	hmedley@nne-llc.com Office of Oli are
Facsimile:	304-414-7061	Facsimile:	304-241-5972 AUG 1 6 2017
Oil and Ga	s Privacy Notice:		WV Department O

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 <a href="mailto:deprivacyofficer@wv.gov">deprivacyofficer@wv.gov</a>.

WW-6A5 (1/12)

Operator Well No. MEPCO 16H

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

		Requirement: notice e: 08/04/2017			er than the filing cation Filed: 08/1		application.
Deliv	ery metl	nod pursuant to We	st Virginia Co	de § 22-6.	A-16(c)		
	CERTIF	TED MAIL		□ на	ND		
	RETUR	N RECEIPT REQUI	ESTED	DE	LIVERY		
return the pl requir drillin damag	receipt of anned oped to be a g of a had ges to the ane notice.	requested or hand de peration. The notice provided by subsecti orizontal well; and ( e surface affected by	livery, give the e required by to on (b), section (3) A proposed oil and gas ope	e surface o this subsection of this ten of this surface uperations to	wner whose land ction shall includes article to a surfa- ise and compens the extent the da	will be used for de: (1) A copy ace owner whos ation agreement mages are comp	cation, an operator shall, by certified mail or the drilling of a horizontal well notice of of this code section; (2) The information see land will be used in conjunction with the at containing an offer of compensation for pensable under article six-b of this chapter. Sted in the records of the sheriff at the time
(at the	address	by provided to the S listed in the records tion Coal Company				MEPCO LLC	
	-	Center, 1000 Consol Energy (	Orive			: 103 CORPORATE	DRIVE, SUITE 102
radic		sburg, PA 15317				MORGANTOWN, V	out to the Control of
Pursuoperate State: Count Distri	ant to We tion on t ty: ct:				UTM NAD 8 Public Road	I well on the tra Easting: Northing: Access:	well operator has developed a planned act of land as follows:  572714.00  4390676.07  County Route 29/4
	rangle:	Blacksville			Generally use	ed farm name:	MEPCO
Pursu to be horize surfac inform headq	Notice Solution Notice Solution to W provided ontal well affects anation requarters,	d by W. Va. Code l; and (3) A propose d by oil and gas op- lated to horizontal of	22-6A-16(c), the second	to a surfa and compe extent the cobtained	ce owner whose nsation agreement damages are con from the Secret	e land will be un nt containing ar ompensable und ary, at the WV	code section; (2) The information required used in conjunction with the drilling of a noffer of compensation for damages to the ler article six-b of this chapter. Additional Department of Environmental Protection or by visiting

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 personal information. If you have any questions about our use or your personal information of the contact DEP's Chief Privacy Officer at depprivacyofficer@wv.gov.



### WEST VIRGINIA DEPARTMENT OF TRANSPORTATION

### **Division of Highways**

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

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 57<sup>th</sup> Street, SE Charleston, WV 25304

Subject: DOH Permit for the Mepco Pad, Monongalia County Mepco 16H

47-061-01790

Dear Mr. Martin,

Earl Ray Tomblin

Governor

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

RECEIVED Office of Oil and Gas

AUG 1 6 2017

### Planned Additives to be used in Fracturing Stimulations

Trade Name	Purpose	Ingredients	Cemical Abstract Service Numner (CAS#)
Water	Carrier	Water	7732-18-5
HCL 10.1.1EW	Acidizing	Hydrochloric Acid	7647-01-0
HCI, 10.1-15%	Acidizing	Water	7732-18-5
		Alkyl Dimethyl Benzyl Ammonium Chloride (C12-16)	68424-85-1
	Biocide	Ethanol	64-17-5
Alpha 1427		Glutaraldehyde	111-30-8
		Quaternary Ammonium Chloride	7173-51-5
		Water	7732-18-5
Enzyme G-NE	Breaker	Hemicellulase Enzyme Concentrate	9025-56-3
Elizyffie G-NE		Water	7732-18-5
	Corrosion Inhibitor	Fatty Acids	NA
		Methanol	67-56-1
Cl-14		Olefin	NA
		Polyozyalkylenes	NA
		Propargyl Alcohol	107-19-7
FRW-18	Friction Reducer	Hydrotreated Light Distillate	64742-47-8
Ferrotrol 300L	Iron Crontrol	Citric Acid	77-92-9
Sand, White, 40/70	Proppant	Cystalline Silica (Quartz)	14808-50-7
Sand, White, 100 mesh	Proppant	Cystalline Silica (Quartz)	14808-50-7
Scaletrol 720	Scale Inhibitor	Siethylene Glycol	111-46-6



