

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

November 2, 2017 PERMIT MODIFICATION APPROVAL Horizontal 6A / Horizontal 6A Well - 1

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

Re:

Permit Modification Approval for MEPCO 8H

47-061-01759-00-00

Well Location

NORTHEAST NATURAL ENERGY LLC

The Office of Oil and Gas has reviewed the attached permit modification for the above referenced permit. The attached modification has been approved and well work may begin. Please be reminded that the oil and gas inspector is to be notified twenty-four (24) hours before 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 8H

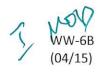
Farm Name: MEPCO LLC

U.S. WELL NUMBER: 47-061-01759-00-00

Horizontal 6A / Horizontal 6A Well - 1

Date Issued: November 2, 2017

Promoting a healthy environment.



OPERATOR WELL NO. MEPCO 8H
Well Pad Name: MEPCO

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

1) Well Operator: NORTHEAST NA	ATURAL ENERGY LLC	494498281	MONONGALIA	CLAY	BLACKSVILLE
		Operator ID	County	District	Quadrangle
2) Operator's Well Number: MI	EPCO 8H	Well Pad	Name: MEPO	CO	
3) Farm Name/Surface Owner:	MEPCO LLC	Public Road	d Access: CR	29/7	
4) Elevation, current ground:	1452.16' Ele	evation, proposed p	oost-construction	on: 1424.0	00'
5) Well Type (a) Gas X	Oil NA	Unde	rground Storag	ge NA	
Other NA					
(b)If Gas Sha	allow X	Deep	NA		
Hor	rizontal X				
6) Existing Pad: Yes or No NC)		MOK	8/10/201	7
7) Proposed Target Formation(s MARCELLUS; 8,222'; 103'; 36		pated Thickness a	nd Expected Pr	ressure(s):	,
8) Proposed Total Vertical Dept	h: 8,222'				
9) Formation at Total Vertical D	epth: MARCELI	_US			
10) Proposed Total Measured D	epth: 17,007.41	1			
11) Proposed Horizontal Leg Le	ength: 7,838'				
12) Approximate Fresh Water S	trata Depths:	50', 1,307'			
13) Method to Determine Fresh	Water Depths: D	RILLER'S LOG F	ROM OFFSE	T WELLS	
14) Approximate Saltwater Dep	ths: 1,947', 2,589	9'			
15) Approximate Coal Seam De	pths: 662', 1,305	j'			
16) Approximate Depth to Poss	***************************************	-	NΑ		RECEIVED Office of Oil and Gas
17) Does Proposed well location directly overlying or adjacent to		Yes	No	X	AUG 1 6 2017 WV Department of Environmental Protection
(a) If Yes, provide Mine Info:	Name:				EHAROLITIS
	Depth:				
	Seam:				
	Owner:				

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	17,007.41'	17,977.41'	3,953 CU. FT.
Tubing	2 3/8"	NEW	P-110	4.7	NA	8,500'	NA
Liners							

MAK Sloper

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 9 570	3,600	NA	NA
Liners							

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PACKERS

AUG 1 6 2017

Kind:		WV Depa Environment	rtment of al Protection
Sizes:			
Depths Set:			

WW-6B (10/14)

API NO. 47-01 - 01759	MOD
OPERATOR WELL NO. MEPCO 8H	
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 6,650' TVD/MD. The well will then be horizontally drilled on fluid from KOP to approximately 8,222' TVD / 17,007.41' 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. Prod**O** Gas string cement will be (50:50) Poz (Fly Ash):Type I Cement with a gas migration additive.

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WV Department of Environmental Protection

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 + 1 gal/bbl US-40 + 275 lbs/bbl Barite, Bulk + 1 gal/bbl SS-2 @ 13.5 ppg spacer prior to cement.

*Note: Attach additional sheets as needed.



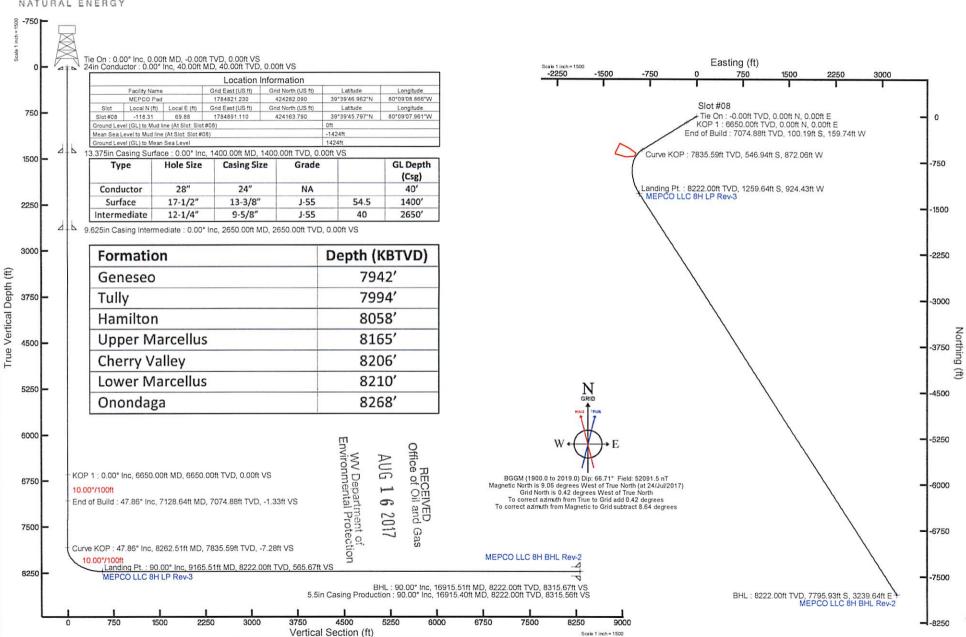
NORTHEAST NATURAL ENERGY, LLC

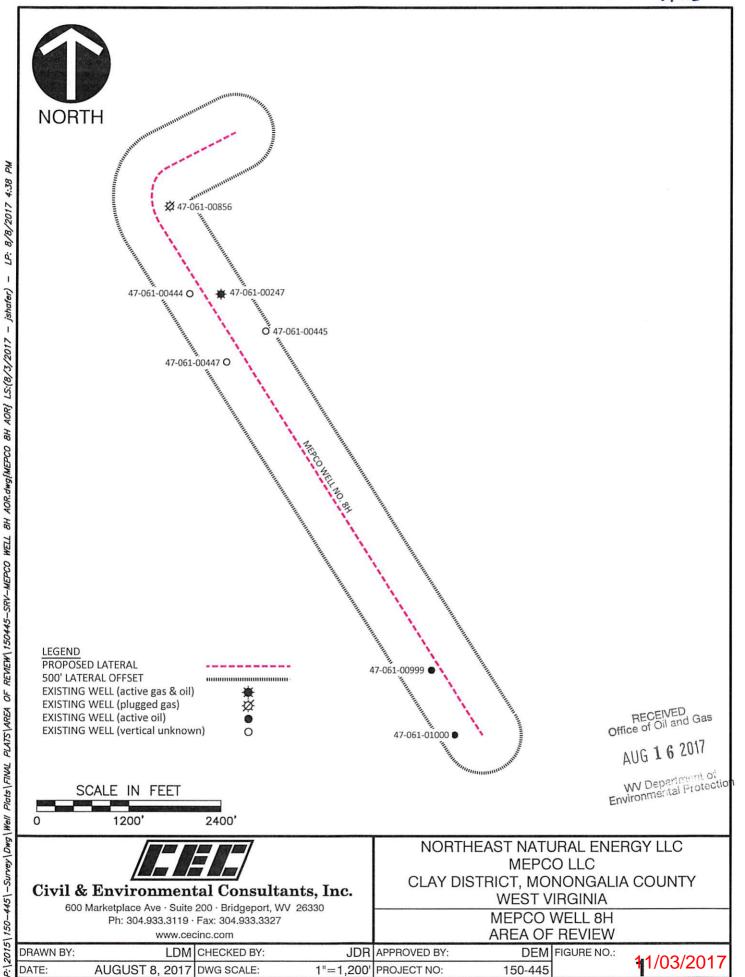
Location: Monongalia County, WV

Azimuth 147,50° with reference 0.00 N, 0.00 E

Field: Monongalia Well: MEPCO LLC 8H
Facility: MEPCO Pad Wellbore: MEPCO LLC 8H PWB







AREA OF REVIEW MEPCO WELL 8H

UNIT (API NUMBER)	WELL NAME	WELL NUMBER	OPERATOR	WV DEP STATUS	TD	GROUND ELEVATION
4706100856	J. W. WRIGHT	WRIGHT 2	CONSOLIDATION COAL CO.	PLUGGED	1900'	1128'
4706100247	J. W. WRIGHT	15	CONSOLIDATION COAL CO.	VERTICAL GAS	2248'	1312.35'
4706100444	MIKE WRIGHT	15	CONSOLIDATION COAL CO.	VERTICAL GAS	2248'	1312.35'
4706100445	MIKE WRIGHT	4	CONSOLIDATION COAL CO.	VERTICAL GAS	2463'	1220'
4706100447	NOAH WRIGHT	3	CONSOLIDATION COAL CO.	ABANDONED	2486'	UNKNOWN
4706100999	J. WILDMAN	6	NNE RESOURCES, LLC	VERTICAL	2400'	1170'
4706101000	L. WILDMAN	11	NNE RESOURCES, LLC	VERTICAL	2400'	1190'

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AUG 1 6 2017

API Number 47 - OO - O 750 MOV
Operator's Well No. MEPCO 8H

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

FLUIDS/ CUTTINGS DISPOSAL & RECLAMATION PLAN

Operator Name_NORTHEAST NATURAL ENERGY LLC OP Code 494498281
Watershed (HUC 10) JAKES RUN OF DUNKARD CREEK Quadrangle BLACKSVILLE
Do you anticipate using more than 5,000 bbls of water to complete the proposed well work? Yes No
Will a pit be used? Yes No V
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, MICA LCM, WATER LOSS AGENTS
Drill cuttings disposal method? Leave in pit, landfill, removed offsite, etc. REMOVED OFFSITE - PLEASE SEE ATTACHMENTE 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" WV Department of
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 penalties for submitting false information, including the possibility of fine or imprisonment. Company Official Signature OFFICIAL SEAL STATE OF WEST VIRGINIA NOTARY PUBLIC Shana Kennedy 230 Husgavarna Drive My Commission Expires Dec. 29, 2021 Subscribed and sworn before me this 16th day of August Notary Public
My commission expires Dec. 29, 2021

Operator's Well No. MEPCO 8H

NORTHEAST NAT	TURAL ENERG	GY LLC				
Proposed Revegetation Tre	atment: Acres Distu	rbed 12.80	Pro	evegetation pH 5-7		
Lime 2	Tons/acre or t	to correct to pH	7			
Fertilizer type 19	-19-19					
Fertilizer amount_	300	lbs/	acre			
Mulch_2		Tons/aci	re			
		Seed I	<u>Mixtures</u>			
г	Temporary			Permanent		
Seed Type	lbs/acre		Seed	Туре	lbs/acre	
Orchard Grass	46		Orchard Gr	ass	46	
Red Clover	8		Red Clover		8	
Tetraploid Perer	nnial Rye 16		Tetraploid P	erennial Rye	16	
Timothy 15	Annual Rye	15	Timothy 1	5 Annual	Rye	1
Drawing(s) of road, locatio provided) Photocopied section of involution and provided by:	olved 7.5' topographi		cation (unless engine	ered prais including t	ms into i	RECEIVED Office of Oil and Gas
Comments:	, 0					AUG 1 6 2017
					Е	WV Department of Environmental Protection
Title: INSPECTOT			Date: 8/10/	2017		
	(X) Yes	(_) No			

Attachment A to WW-9

Northeast Natural Energy LLC ("NNE") plans to utilize a closed loop process for its drilling of the MEPCO 8H 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 8H Drill Cuttings will be taken to disposal at one or more of the following disposal/approved waste facilities, unless listed facilities are no longer approved to accept waste at time of disposal:

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

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

AUG 1 6 2017

- 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)



MEPCO 8H SITE SAFETY PLAN

JULY 27, 2017

8/10/2017 19/K

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AUG 1 6 2017

NORTHEAST NATURAL ENERGY LLC MEPCO WELL NO. 8H LEASE NO. WV-061-003478-001

TOP HOLE (NAD 83)
N 424153.79
E) 1784891.11
LAT.) 39*39*45.80*
LONG.) 80*0907.96*
DEC. LAT.) 39.652722
EC. LONG.) -80.152212
DEC. LONG.) -80.155633
TOP HOLE (NAD 37) DEC. LONG.) -80.152212

TOP HOLE (NAD 27)
N 424126.71
E) 1816327.94
LAT.) 39°3945.51*
LONG.) 80°0908.71*
DEC. LAT.) 39.662641
DEC. LONG.) -80.152418

DEC. LONG.) -80.152418

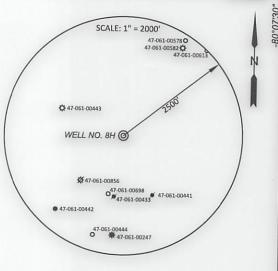
BOTTOM HOLE (NAD 83) N) 416368.34 E) 1788130.55 LAT.) 39°38'28.98" LONG.) 80°08'25.83" DEC. LAT.) 39.641384 DEC. LONG.) 80 140507

2	DEC. LONG.) -80.140507	
	BOTTOM HOLE (NAD 27)	
	N) 416331.20	
	E) 1819567.56	
	LAT.) 39°38'28.69"	
	LONG.) 80°08'26.57"	
	DEC. LAT.) 39.641303	
Ŋ	DEC. LONG.) -80.140714	

83° 1384 10507	
D 27)	
9" 57" '303 10714	

TOF	P HOLE (UTM NAD 83) N) 4390667.11 E) 572722.26
LANDII	NG POINT (UTM NAD 83) N) 4390301.17 E) 572432.15
ВОТТ	OM HOLE (UTM NAD 83) N) 4388308.53 E) 573748.91

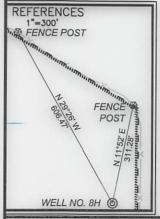
SURFACE HOLE WELL NO. 8H



BOTTOM HOLE WELL NO. 8H

DIST-TM-PAR AC. ±
4 - 16 - 48.3 103.49
4 - 16 - 47 0.85
4 - 16 - 46 21.9
4 - 16 - 54 84.14 OWNER 1 MEPCO LLC 2 DOWNEY HAROLD FOX EST DOWNEY HAROLD FOX EST CONSOL MINING COMPANY LLC 5 CONSOL MINING COMPANY LLC 4 - 16 - 52 19.97 4 - 16 - 45 35.53 6 A. KEITH MICHAEL, ET AL 7 A. KEITH MICHAEL, ET AL 4 - 16 - 44 8.20 4 - 16 - 48 206.00 4 - 16 - 66 97.69 8 A. KEITH MICHAEL, ET AL 9 JOE CLARK STATLER 4 - 16 - 66 97.69 4 - 16 - 43 45.00 4 - 16 - 72.8 16.06 4 - 16 - 72.4 5.25 4 - 16 - 72.2 4.85 4 - 16 - 72.3 3.72 4 - 16 - 72.9 2.26 10 A. KEITH MICHAEL, ET AL 11 ARTHUR LUZADER 12 KENNETH & GENEVA YOST KENNETH & GENEVA YOST 4.85 12.3 3.72 4-16-72.9 2.26 4-16-72.6 2.78 4-16-72.13 2.35 4-16-72.7 11.60 4-16-72.7 11.60 14 JESSE & HELEN LEMASTERS
15 WILLIAM JONAH KERNS 16 WADESTOWN VOLUNTEER FIRE DEPT.
17 MT. PLEASANT UNITED METHODIST CHURCH 18 KENNETH & GENEVA YOST 19 GEORGE H. RUCKLE
20 ROBERT JOSEPH & IRENE CATHERINE CARUBIA 74 12.05 4 - 16 -4 - 21 -4 - 21 -4 - 21 -72.1 0.93 19 48.00 22 GEORGE H. RUCKLE
23 MARK & BETTY EDDY, ET AL
24 MARK & BETTY EDDY. FT AL 21 CONSOL MINING COMPANY LLC 20 58.91 21 83.46 MARK & BETTY EDDY, ET AL 22 26 CHAD M. & MELISSA K. MATHENY

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



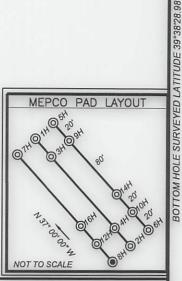
NOTES ON SURVEY

NOTES ON SURVEY

NO OCCUPIED DWELLINGS OR BUILDINGS 2500 SQUARE FEET OR LARGER USED TO HOUSE OR SHELTER DAIRY CATTLE OR POULTRY HUSBANDRY WITHIN 525 OF THE CENTER OF THE WELL PAD WERE OBSERVED. NO WATER WELLS OR DEVELOPED SPRINGS USED FOR HUMAN OR DOMESTIC ANIMAL CONSUMPTION WERE FOUND WITHIN 250.

SURFACE OWNERSHIP TAKEN FROM THE MONONGALIA COUNTY TAX ASSESSOR AND COUNTY CLERK OFFICES IN OCTOBER 2015.

WELL LATITUDE AND LONGITUDE FROM SURVEY GRADE VRS SOLUTIONS.
BEARINGS SHOWN ARE BASED UPON THE WY STATE PLANE COORDINATE SYSTEM, NAD 83 GRID NORTH ZONE. LEASE INFORMATION PROVIDED BY NORTHEAST NATURAL ENERGY LLC.
PARCEL AND LEASE BOUNDARY LOCATIONS ARE APPROXIMATE AND BASED UPON RELEVANT GIS INFORMATION, FIELD LOCATION BOUNDARY EVIDENCE AND DEED DESCRIPTIONS.



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

Civil & Environmental Consultants, Inc.

JULY 31, 2017 SCALE_1" = 1600' ACCURACY_

Mos 067 API No.

TYPE OF WELL:

*TARGET FORMATION _

Production X Storage — *Deep — *Shallow -

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

WELL OPERATOR NORTHEAST NATURAL ENERGY LLC

MARCELLUS

ADDRESS 707 VIRGINIA STREET EAST, SUITE 1200

CHARLESTON. WV 25301

No. 991

STATE OF VIRGINIA SURVIVIANCE OF STATE OF STATE

I, the undersigned, hereby certify that this plat is correct to the best of my knowledge and belief and shows all the information required by law and the rules issued and prescribed by the Division of Environmental Protection.

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



WELL AREA & LOCATION INFORMATION

ELEVATION SOURCE ____ DGPS (OPUS)

ELEVATION 1452.16' (EXISTING), 1424.00' (PROPOSED)

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

COUNTY MONONGALIA TOPO QUAD BLACKSVILLE

SURFACE OWNER MEPCO LLC

103.49 ± ACREAGE _

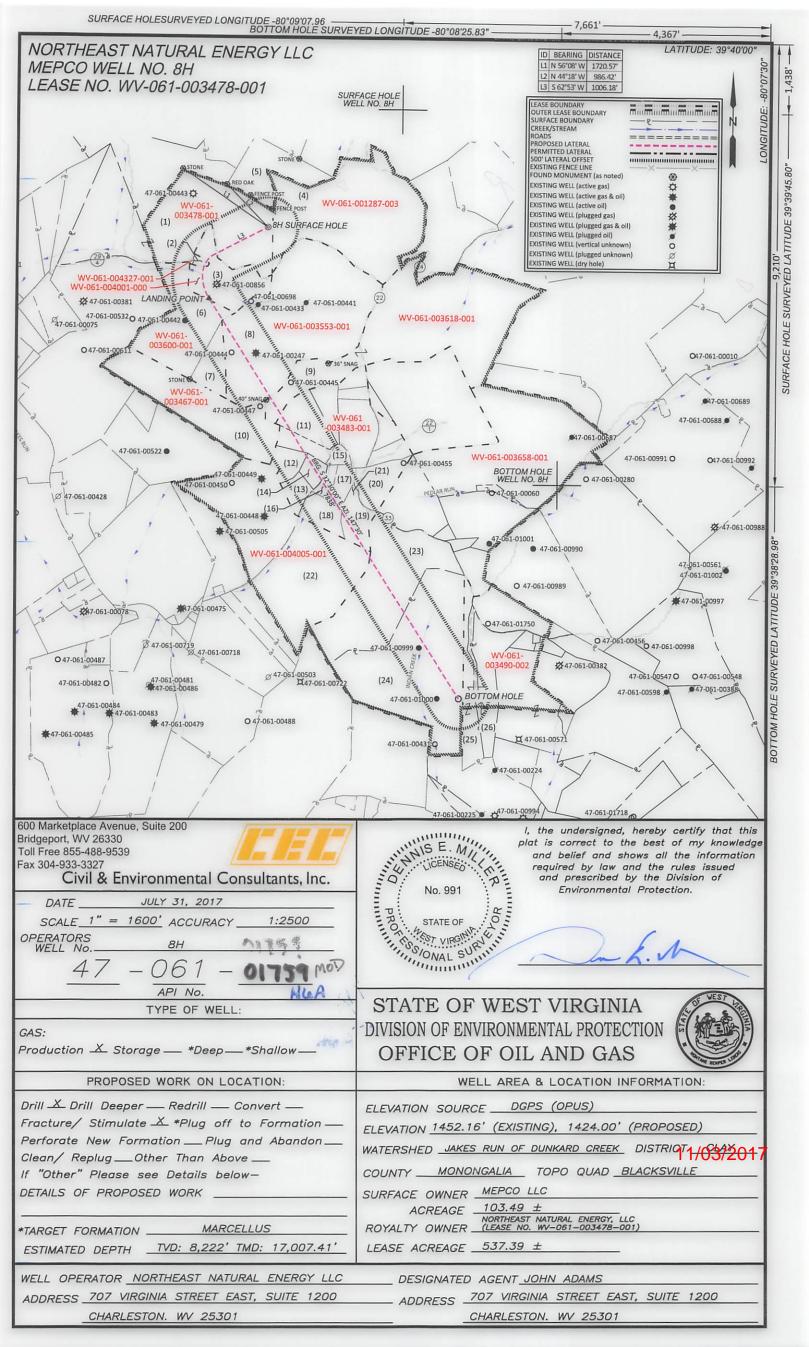
ROYALTY OWNER (LEASE NO. W-061-003478-001)

LEASE ACREAGE 537.39 ±

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

CHARLESTON. WV 25301





61-01759 MOD 600 Marketplace Avenue, Suite 200 Bridgeport, WV 26330 NORTHEAST NATURAL ENERGY LLC MEPCO WELL NO. 8H Toll Free 855-488-9539 LEASE NO. WV-061-003478-001 Fax 304-933-3327 Civil & Environmental Consultants, Inc. HOBBS RUN DUNKARD CREEK Moore Cem 1300 Mooresville D 1000 ELLSWORTH AVE HENDERSON RIDGE Mooresville LOGUE TENNANT RO Church of LONG DRAIN RD Christ Cem O 1400 1300 Henderson Ridge 1200 1100 1100 1200 JAKES RUN RO MOUNT HERMON CHURCH PEDLA 1200 ORIAL RD 1500 MOUNT HARMON 1200 Memorial CO RD 22/4 Jakes Run CO RD 2/2 1341 Behler Eddy Chapel Cem 1100 -1200 STATLERS RUN RD FACEMIRE RD 11/03/2017 1200 Office of Oil and Gas 1300 AUG 1 6 2017 SCALE IN FEET WV Department of Environmental Protection PROPOSED SURFACE HOLE 2000 4000

WW-6A1
(5/13)

Operator's W	ell No.	MEPCO 8H

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

Its:

- 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, office of Oil and Gas 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. AUG 3 0 2017

Regulatory Manager

Well Operator:	Northeast Natural Energy LLC	WV Department of Environmental Protection
By:	Hollimedy	Environmental Flotection

Page 1 of 6

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: 47-

State County Permit No.

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 authorized representative thereof), after being duly sworn, declare that the undersigned is authorized by the owner of working interest in the well permit application to which the affidavit is attached to state that (he, she, or it) shall tend to the owner of the oil and gas in place not less than one-eight of the total amount paid to or received by or allowed to owner of the working interest at the wellhead for the oil or so extracted, produced, or marketed before deducting the amount 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 before the owner of the well. West Virginia Code 22-6-8(e).	do the his der hth the gas ount cce,
Signed: Mulli Mannah Taken, subscribed and sworn to before me this 14th day day	
Brenda Malone - Pen Notary Public My Commission expires:	RECEIVED Gas Office of Oil and Gas
Official Seal Notary Public, State of West Virginia Brenda Malone-Pence 1007 24th Street Parkersburg, WV 25101 My Commission Expires September 6, 2017	WV Department of Environmental Protection

WW-6A1

OPERATOR'S WELL NO.

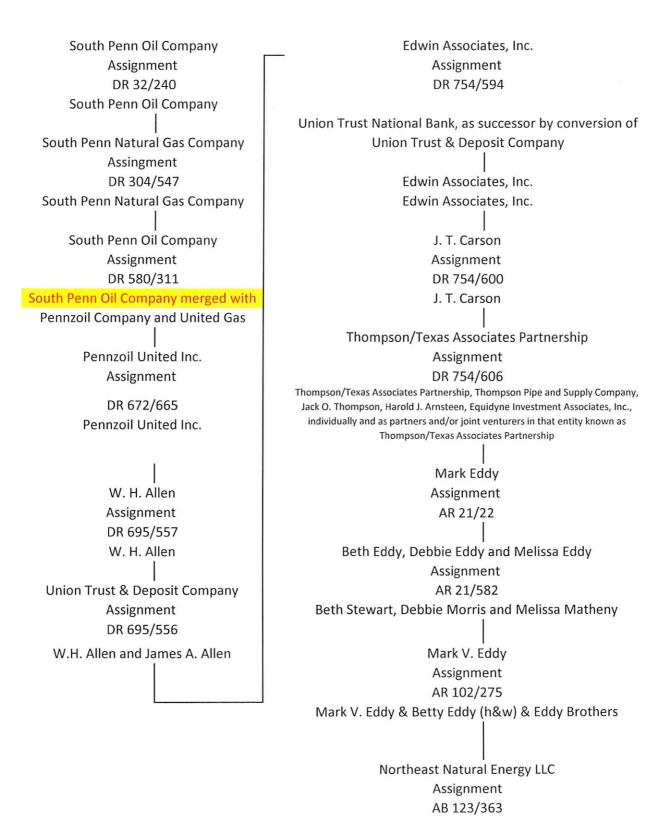
MEPCO 8H

	T		T .	
	GRANTOR, LESSOR, ETC	GRANTEE, LESSEE, ETC	ROYALTY	BK/PG
WV-061-003600-001	GARY G LORING	NORTHEAST NATURAL ENERGY LLC	DEED	1550/343
WV-061-004001-000	JOHN W WRIGHT AND AMANDA WRIGHT	*SOUTH PENN OIL CO	0.125 OR GREATER	 '
WV-061-004327-001	REED ENERGY SERVICES LLC	NORTHEAST NATURAL ENERGY LLC	DEED	1577/831
WV-061-004001-000	JOHN W WRIGHT AND AMANDA WRIGHT	*SOUTH PENN OIL CO	0.125 OR GREATER	39/202
WV-061-004327-001	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-061-003553-001	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-061-003478-001	LORING, GARY G.	NORTHEAST NATURAL ENERGY LLC	DEED	1521/99
WV-061-004001-000	JOHN W AND AMANDA WRIGHT	*SOUTH PENN OIL CO	0.125 OR GREATER	39/202
WV-061-004002-000	NIMROD AND NANCY TENNANT	*SOUTH PENN OIL CO	0.125 OR GREATER	39/361
WV-061-003618-001	SHUMAN, INC	NORTHEAST NATURAL ENERGY LLC	0.125 OR GREATER	1539/411
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	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	1533/82
WV-061-003554-004	HAPPY ENDINGS LLC	NORTHEAST NATURAL ENERGY LLC	0.125 OR GREATER	
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	
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	1533/82
WV-061-003554-004	HAPPY ENDINGS LLC	NORTHEAST NATURAL ENERGY LLC	0.125 OR GREATER	-
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	-
WV-061-003554-001	JUNE C MYERS	NORTHEAST NATURAL ENERGY LLC	0.125 OR GREATER	
WV-061-003554-002	RUTH J MONTILOR	NORTHEAST NATURAL ENERGY LLC	0.125 OR GREATER	-
WV-061-003554-003	ALEXANDRA D DIERINGER	NORTHEAST NATURAL ENERGY LLC	0.125 OR GREATER	
WV-061-003554-004	HAPPY ENDINGS LLC	NORTHEAST NATURAL ENERGY LLC	0.125 OR GREATER	
WV-061-003483-001	HERV OIL LLC	*EM1 ENERGY INC	0.125 OR GREATER	
WV-061-003483-002	ANDREW SOLOMON	*EM1 ENERGY INC	0.125 OR GREATER	
WV-061-003554-001	JUNE C MYERS	NORTHEAST NATURAL ENERGY LLC	0.125 OR GREATER	
WV-061-003554-002	RUTH J MONTILOR	NORTHEAST NATURAL ENERGY LLC	0.125 OR GREATER	
WV-061-003554-003	ALEXANDRA D DIERINGER	NORTHEAST NATURAL ENERGY LLC	0.125 OR GREATER	
WV-061-003554-004	HAPPY ENDINGS LLC	NORTHEAST NATURAL ENERGY LLC	0.125 OR GREATER	
WV-061-003483-001	HERV OIL LLC	*EM1 ENERGY INC	0.125 OR GREATER	
WV-061-003483-002	ANDREW SOLOMON	*EM1 ENERGY INC	0.125 OR GREATER	
WV-061-003554-001	JUNE C MYERS	NORTHEAST NATURAL ENERGY LLC	0.125 OR GREATER	
WV-061-003554-002	RUTH J MONTILOR	NORTHEAST NATURAL ENERGY LLC	0.125 OR GREATER	
WV-061-003554-003	ALEXANDRA D DIERINGER	NORTHEAST NATURAL ENERGY LLC	0.125 OR GREATER	
WV-061-003554-004	HAPPY ENDINGS LLC	NORTHEAST NATURAL ENERGY LLC		1534/116
WV-061-003934-004	JARRETT WILDMAN, ET AL	*JW SCOTT	0.125 OR GREATER	
	MICHAEL L AND TERRY STRAIGHT			1542/110
WV-061-004020-000	MARK V AND BETTY A EDDY	NORTHEAST NATURAL ENERGY LLC		
WV-061-004020-000	JARRETT WILDMAN, ET AL	*JW SCOTT	DEED 0.125 OR GREATER	1505/572
WV-061-003658-001				27/145
WV-061-003638-001 WV-061-004020-000	MICHAEL L AND TERRY STRAIGHT	NORTHEAST NATURAL ENERGY LLC	DEED	1542/110
WV-061-004020-000 WV-061-004005-001	MARK V AND BETTY A EDDY KEVIN K CHUMNEY AND JANET L CHUMNEY	NORTHEAST NATURAL ENERGY LLC NORTHEAST NATURAL ENERGY LLC	DEED	1505/572
WV-061-004314-001			DEED	1581/250
	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		26/273
WV-061-004005-002	DONNA JEAN SHELTON AND THOMAS C	NORTHEAST NATURAL ENERGY LLC		1591/700
WV-061-004005-001	KEVIN K CHUMNEY AND JANET L CHUMNEY	NORTHEAST NATURAL ENERGY LLC	DEED	1581/250
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		26/273
WV-061-004005-002	DONNA JEAN SHELTON AND THOMAS C	NORTHEAST NATURAL ENERGY LLC	0.125 OR GREATER	1591/700

*SEE ATTACHMENT

Office of Oil and Gas
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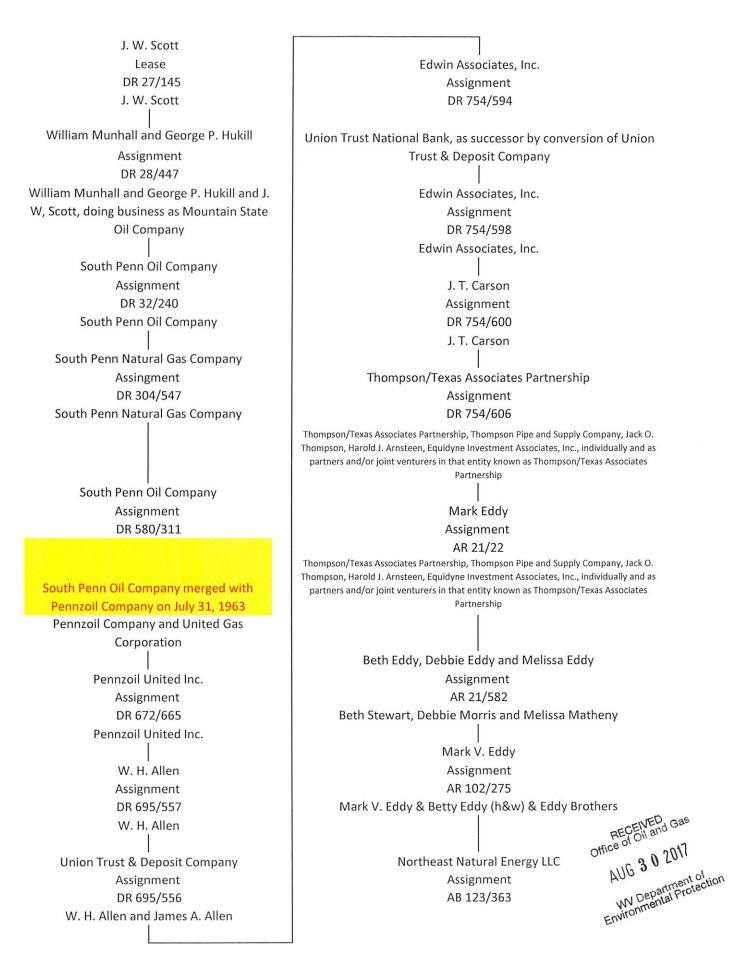
EM1 Energy Inc.

AS 125/638 D: 12/18/2014 R: 6/9/2015

> Northeast Natural Energy LLC

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11/03/2017



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July 14, 2017

WV Department of Environmental Protection Office of Oil and Gas Management 601 57th 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

Enclosure

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AUG 1 6 2017

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

Date of Notic	ce Certification: 08/14/2017			759 MOD			
		Operato	Operator's Well No. MEPCO 8H				
		Well Pa	d Name: MEPCC)			
Notice has l	been given:						
		22-6A, the Operator has provided the	required parties v	vith the Notice Forms listed			
	tract of land as follows:						
State:	West Virginia	Easting:	572722.26				
County:	Monongalia	UTM NAD 83 Lasting.					
District:	Clay	Public Road Access:	State Route 29/4				
Quadrangle:	Blacksville	Generally used farm name	: MEPCO LLC				
Watershed:	Jakes Run of Dunkard Creek		-				
it has provide information re of giving the requirements Virginia Code	ed the owners of the surface described equired by subsections (b) and (c), see surface owner notice of entry to surface of subsection (b), section sixteen of subsection (b).	nall contain the following information: bed in subdivisions (1), (2) and (4), section sixteen of this article; (ii) that the rvey pursuant to subsection (a), section this article were waived in writing lender proof of and certify to the secretate.	ubsection (b), see requirement was on ten of this arti by the surface ov	ction ten of this article, the deemed satisfied as a result cle six-a; or (iii) the notice wner; and Pursuant to West			
that the Ope	West Virginia Code § 22-6A, the Oprator has properly served the required ECK ALL THAT APPLY	erator has attached proof to this Notice d parties with the following:	e Certification	OOG OFFICE USE ONLY			
☐ 1. NO	TICE OF SEISMIC ACTIVITY or	☐ NOTICE NOT REQUIRED BEC SEISMIC ACTIVITY WAS CONDU		☐ RECEIVED/ NOT REQUIRED			
■ 2. NO	TICE OF ENTRY FOR PLAT SURV	EY or NO PLAT SURVEY WAS	CONDUCTED	☐ RECEIVED			
■ 3. NO	TICE OF INTENT TO DRILL or	☐ NOTICE NOT REQUIRED BECONSTICE OF ENTRY FOR PLAT SURVING CONDUCTED or		☐ RECEIVED/ NOT REQUIRED			
		☐ WRITTEN WAIVER BY SURI (PLEASE ATTACH)					
■ 4. NO	TICE OF PLANNED OPERATION			cas RECEIVED			
56-14 die 6-1054 l	TICE OF PLANNED OPERATION BLIC NOTICE		RECEIVED Office of Oil and	RECEIVED RECEIVED RECEIVED			

Required Attachments:

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

WW-6AC (1/12)

Certification of Notice is hereby given:

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

Well Operator: Northeast Natural Energy LLC Address: 707 Virginia Street East, Suite 1200 By: Hollie M. Medley Charleston, WV 25301 Facsimile: 304.241.5972 Its: Regulatory Manager Telephone: 304.212.0422 Email: hmedley@nne-llc.com Subscribed and sworn before me this 17th day of Aug NOTARY SOFFICIAL SEAL **NOTARY PUBLIC** STATE OF WEST VIRGINIA Notary Public PHILLIP M. DANIEL

My Commission Expires

11

Oil and Gas Privacy Notice:

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

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AUG 1 6 2017

WW-6A (9-13) API NO. 47- Gl - 0 1759 Mo 0 OPERATOR WELL NO. MEPCO 8H Well Pad Name: MEPCO

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

Not	ice Time Requiren	ent: notice shall be provided	l no later tha	n the filing date of permit application.	
	e of Notice: 8/4/2017 ice of:	Date Permit Application	ı Filed: <u>8/14/</u>	2017	
	ice of:				
	PERMIT FOR AN	iy 🔲 certifica	TE OF APP	ROVAL FOR THE	
	WELL WORK	CONSTRUC	CTION OF A	AN IMPOUNDMENT OR PIT	
Deli	ivery method pursi	ıant to West Virginia Code	§ 22-6A-10	(b)	
	PERSONAL	✓ REGISTERED	□ метн	OD OF DELIVERY THAT REQUIRES A	
	SERVICE	MAIL		PT OR SIGNATURE CONFIRMATION	
sedin the soil a descoper more well impo have prov prop subs recoprov Code	ment control plan recountages leasehold being ribed in the erosion at ator or lessee, in the ecoal seams; (4) The work, if the surface bundment or pit as do a water well, spring ide water for consumptions with the surface water well work active ection (b) of this seconds of the sheriff requision of this article to e R. § 35-8-5.7.a recountages and surface water to the sheriff requision of this article to e R. § 35-8-5.7.a recountages and surface water to the sheriff requision of the sheriff requision of the sheriff requision of this article to the sheriff requision of the sheriff requision	quired by section seven of this in which the well is or is proposed and sediment control plan submered to the tract of land on which cowners of record of the surfact tract is to be used for the place escribed in section nine of this or water supply source located aption by humans or domestic rity is to take place. (c)(1) If me tion hold interests in the lands, uired to be maintained pursuant to the contrary, notice to a lien be quires, in part, that the operator	article, and the sed to be local well work, if mitted pursua the the well proceed that construction article; (5) Ad within one animals; and ore than three, the applicant to section etholder is not rishall also priced well well.	or signature confirmation, copies of the application, the well plat to each of the following persons: (1) The ated; (2) The owners of record of the surface tract or of the surface tract is to be used for roads or other land and to subsection (c), section seven of this article; (3) roposed to be drilled is located [sic] is known to be used to overlying the oil and gas leasehold being develop uction, enlargement, alteration, repair, removal or about surface owner or water purveyor who is known to thousand five hundred feet of the center of the well person (6) The operator of any natural gas storage field with the tenants in common or other co-owners of interests of the may serve the documents required upon the person eight, article one, chapter eleven-a of this code. (2) Notice to a landowner, unless the lien holder is the larovide the Well Site Safety Plan ("WSSP") to the surface provided in section 15 of this rule.	cowners of record of tracts overlying the disturbance as The coal owner, nderlain by one or led by the proposed andonment of any of the applicant to lead which is used to lin which the described in described in the otwithstanding any undowner. W. Va.
☑ A	application Notice	☑ WSSP Notice ☑ E&S F	Plan Notice	☑ Well Plat Notice is hereby provided to:	
☑ St	JRFACE OWNER(s)		☑ COAL OWNER OR LESSEE	
	ne: Please See Attached			Name: Please See Attached	_
Add	ress:			Address:	_
Nan	ne:			COAL OPERATOR	
				Name:	_
				Address:	_
		s) (Road and/or Other Distur	bance)		_
	ne: Please See Attached			SURFACE OWNER OF WATER WELL	
Add	ress:			AND/OR WATER PURVEYOR(s)	
				Name: Please See Attached	_
Nan	ne:			Address:	
Add —	ress:			OPERATOR OF ANY NATURAL GAS STO	RAGEOME DI Oil and Gas
		s) (Impoundments or Pits)		Name:	
Nan	ne:			Address:	AUG 1 6 2017
	iress:			*Please attach additional forms if necessary	— WW Department of Environmental Protecti

WW-6A (8-13)

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AUG 1 6 2017

API NO. 47- 6 - 01759 HOD OPERATOR WELL NO. MEPCO 8H Well Pad Name: MEPCO

Notice is hereby given:

WV Department of Environmental Protection

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

This Notice Shall Include:

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

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

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

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

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

Well Location Restrictions

Pursuant to W. Va. Code § 22-6A-12, Wells may not be drilled within two hundred fifty feet measured horizontally from any existing water well or developed spring used for human or domestic animal consumption. The center of well pads may not be located within six hundred twenty-five feet of an occupied dwelling structure, or a building two thousand five hundred square feet or larger used to house or shelter dairy cattle or poultry husbandry. This limitation is applicable to those wells, developed springs, dwellings or agricultural buildings that existed on the date a notice to the surface owner of planned entry for surveying or staking as provided in section ten of this article or a notice of intent to drill a horizontal well as provided in subsection (b), section sixteen of this article was provided, whichever occurs first, and to any dwelling under construction prior to that date. This limitation may be waived by written consent of the surface owner transmitted to the department and recorded in the real property records maintained by the clerk of the county commission for the county in which such property is located. Furthermore, the well operator may be granted a variance by the secretary from these distance restrictions upon submission of a plan which identifies the sufficient measures, facilities or practices to be employed during well site construction, drilling and operations. The variance, if granted, shall include terms and conditions the department requires to ensure the safety and protection of affected persons and property. The terms and conditions may include insurance, bonding and indemnification, as well as technical requirements. (b) No well pad may be prepared or well drilled within one hundred feet measured horizontally from any perennial stream, natural or artificial lake, pond or reservoir, or a wetland, or within three hundred feet of a naturally reproducing trout stream. No well pad may be located within one thousand feet of a surface or ground water intake of a public water supply. The distance from the public water supply as identified by the department shall be measured as follows: (1) For a surface water intake on a lake or reservoir, the distance shall be measured from the boundary of the lake or reservoir. (2) For a surface water intake on a flowing stream, the distance shall be measured from a semicircular radius extending upstream of the surface water intake. (3) For a groundwater source, the distance shall be measured from the wellhead or spring. The department may, in its discretion, waive these distance restrictions upon submission of a plan identifying sufficient measures, facilities or practices to be employed during well site construction, drilling and operations to protect the waters of the state. A waiver, if granted, shall impose any permit conditions as the secretary considers necessary. (c) Notwithstanding the foregoing provisions of this section, nothing contained in this section prevents an operator from conducting the activities permitted or authorized by a Clean Water Act Section 404 permit or other approval from the United States Army Corps of Engineers within any waters of the state or within the restricted areas referenced in this section. (d) The well location restrictions set forth in this section shall not apply to any well on a multiple well pad if at least one of the wells was permitted prior to the effective date of this article. (e) The secretary shall, by December 31, 2012, report to the Legislature on the noise, light, dust and volatile organic compounds generated by the drilling of horizontal wells as they relate to the well location restrictions regarding occupied dwelling structures pursuant to this section. Upon a finding, if any, by the secretary that the well location restrictions regarding occupied dwelling structures are inadequate or otherwise require alteration to address the items WW-6A (8-13)

API NO. 47-61	01759Hop
OPERATOR WELL	NO. MEPCO 8H
Well Pad Name: MFF	PCO

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

Water Well Testing:

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

Water Testing Laboratories:

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

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

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

Written Comment:

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

Office of Oil and Gas

Chief, Office of Oil and Gas
Department of Environmental Protection
601 57th 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.

WW-6A (8-13) API NO. 47-41 - 0175 QHDD OPERATOR WELL NO. MEPCO 8H 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 http://www.dep.wv.gov/oil-and-gas/Horizontal-Permits/Pages/default.aspx and the applicant will automatically be forwarded an email notice that such comments have been submitted. The applicant will be expected to provide a response to comments submitted by any surface owner, water purveyor or natural gas storage operator noticed within the application.

Permit Denial or Condition

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

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

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

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

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WW-6A (8-13)

APINO. 47- 61 - 01759 MOY OPERATOR WELL NO. MEPCO 8H Well Pad Name: MEPCO

Notice is hereby given by:

Well Operator: Northeast Natural Energy LLC

Telephone: 304-212-0422 Email: hmedley@nne-llc.com Address: 707 Virginia Street E., Suite 1200

Charleston, WV 25301

Facsimile: 304-241-5972

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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 My Commission Expires November 27, 2019

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

Notary Public

My Commission Expires

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WW-6A MEPCO 8H

Surface Owner(s)

Consolidation Coal Company Attn: Melissa Wilson Land Agent Dipositions – 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 Dipositions – 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 RECEIVED Office of Oil and Gas

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Gregory G. Michael 1176 Sands Drive Fairmont, WV 26554

Jane Ann Reynolds 2 West Hill Drive Fairmont, WV 26554

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

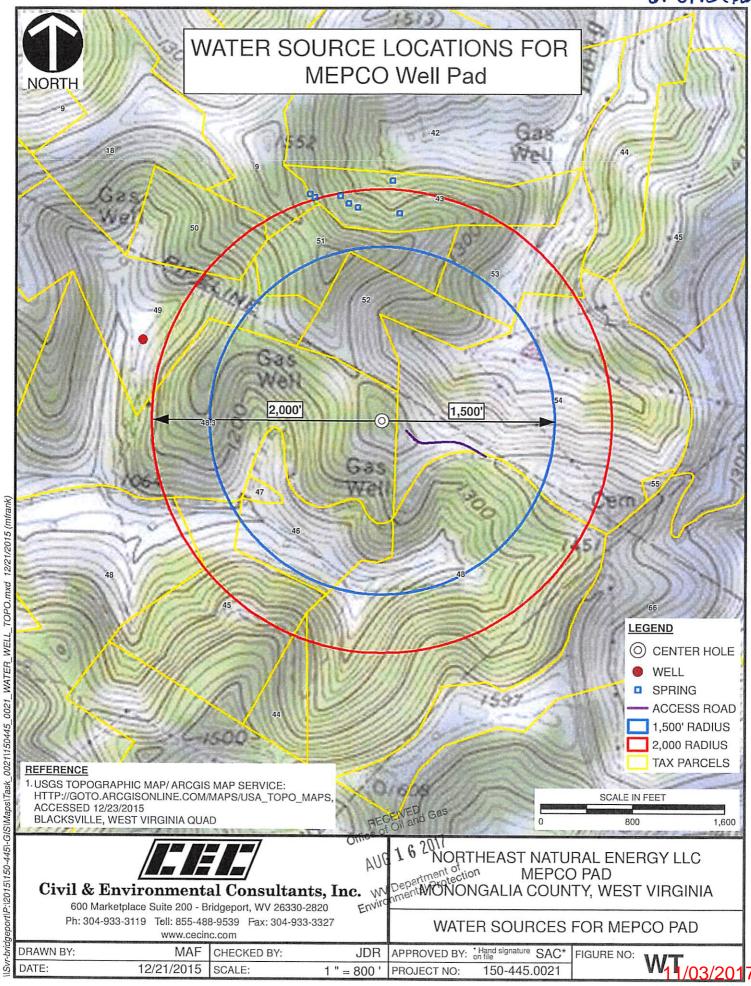
Diane K. Braun, co-executrix of James E. Fletcher Estate 44 Luther Park Road Fairview, WV 26570

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

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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

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WW-6A3 (1/12)

0	perator	Well	No	MEPCO
	perator	W CII	INO.	MEI OO

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

entry	Requirement: 1	Notice shall be provi	ided at least SE	EVEN (7) day	ys but no more than	n FORTY-FIVE (45) days prior to	
	ice: 10/5/2015	Date of Plan	ned Entry: 10	/13/2015				
Delivery me	thod pursuant to	o West Virginia Co	de § 22-6A-10	a				
	SONAL REGISTERED METHOD OF DELIVERY THAT REQUIRES A							
SERVI	CE	MAIL	RECEI	PT OR SIGN	ATURE CONFIR	MATION		
on to the sur- but no more beneath such owner of mir and Sedimen Secretary, wh enable the su	face tract to condithan forty-five date tract that has file tract that has file tracts underlying at Control Manual hich statement shurface owner to obtain	uct any plat surveys by prior to such entred a declaration purs such tract in the coul and the statutes and all include contact is otain copies from the	required pursury to: (1) The security to section anty tax recorded rules related to the formation, incomparison in the security tax.	ant to this ar urface owner thirty-six, ar s. The notice to oil and gas	ticle. Such notice s of such tract; (2) the ticle six, chapter to e shall include a state exploration and p	shall provide notice of shall be provided at lest to any owner or lesses wenty-two of this coductement that copies of roduction may be obtage on the Secretary's	east seven days e of coal seams le; and (3) any the state Erosi ained from the	
Notice is her	reby provided to	:						
■ SURFA	CE OWNER(s)			■ COAI	OWNER OR LE	SSEE		
Name: SEE AT	TTACHMENT				ATTACHM ENT			
Address:			-3	Address:				
Name:))				
Address:			•	■ MINE	RAL OWNER(s)			
				Name: SEE	ATTACHMENT			
Name:				Address:				
Address:	*		e.	*please attach	additional forms if neo	cessary		
Pursuant to V	ereby given: West Virginia Coo on the tract of lan West Virginia	nd as follows:			e undersigned well	operator is planning		et
County:	Manager			ublic Road A		State Route 29/4	(AD 00)	
District:			X	Vatershed:	29 5,5253	Dunkard Creek		
Quadrangle:				enerally used	d farm name:	MEPCO		
may be obtai Charleston, V obtained fror	ned from the Sec WV 25304 (304- n the Secretary by	retary, at the WV D 926-0450). Copies of y visiting <u>www.dep.</u>	epartment of E of such docum	nvironmenta ents or additi	Protection headquonal information re	l and gas exploration parters, located at 601 elated to horizontal di	57th Street, SE	Σ,
	ereby given by:						Office of Oi	I and Gas
Well Operato		Energy LLC		Address:	707 Virginia Street E., S	uite 1200	AUG 1	6 2017
Telephone:	304-212-0422			n	Charleston, WV 25301		AUG I	0 2011
Email:	hmedley@nne-llc.	com		Facsimile:	304-241-5972		WV Dep	ertment of
				f			Environme	ntal Protecti

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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

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1000 Consol Energy Drive Canonsburg, PA 15317

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Coal Owner or Lessee

Consol Mining Company, LLC

Attn: Analyst, Engineering and Operations Support - Coal

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1000 Consol Energy Drive

Canonsburg, PA 15317

Murray Energy Corp.

Attn: Alex P. O'Neill

Coal – Oil and Gas Relations Manager

46226 National Road

St. Clairsville, OH 43950

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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

Office of Oil and Gas

AUG 1 6 2017

WV Department of Environmental Protection

WW-6A4 (1/12)

Operator Well No. MEPCO 8H

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.

Date of Noti	Requirement: Notice shall be provided at ce: 08/04/2017 Date Per	t least TEN (10) days prior to filing a mit Application Filed: 08/14/2017	a permit application.
Delivery me	thod pursuant to West Virginia Code § 2	22-6A-16(b)	
☐ HAND	CERTIFIED MAIL		
DELIVI		QUESTED	
receipt reque drilling a hor of this subsec subsection m	sted or hand delivery, give the surface owr izontal well: <i>Provided</i> , That notice given ction as of the date the notice was provided	ner notice of its intent to enter upon to pursuant to subsection (a), section to it to the surface owner: <i>Provided, ho</i> ner. The notice, if required, shall inc	the surface owner's land for the purpose of en of this article satisfies the requirements wever, That the notice requirements of this lude the name, address, telephone number, or's authorized representative.
	reby provided to the SURFACE OW	VNER(s):	
	LIDATION COAL COMPANY	Name: MEPCO LLC	
	CENTER, 1000 CONSOL ENERGY DRIVE	Address: 103 CORPORATE	
CAN	ONSBURG, PA 15317	MORGANTOWN,	WV 26501
State:	wner's land for the purpose of drilling a ho WEST VIRGINIA	— UTM NAD 83 Easting:	572722.26
County: District:	MONONGALIA CLAY	Public Road Access:	4390667.11 CR 29/4
County:		Northing:	
County: District:	CLAY	Public Road Access:	CR 29/4
County: District: Quadrangle: Watershed: This Notice Pursuant to facsimile nurelated to hor	CLAY BLACKSVILLE JAKES RUN OF DUNKARD CREEK Shall Include: West Virginia Code § 22-6A-16(b), this nber and electronic mail address of the company of the co	Public Road Access: Generally used farm name: notice shall include the name, add operator and the operator's authorize Secretary, at the WV Department of	CR 29/4 MEPCO ress, telephone number, and if available, and representative. Additional information of Environmental Protection headquarters,
County: District: Quadrangle: Watershed: This Notice Pursuant to facsimile nur related to hos located at 60 Notice is he	CLAY BLACKSVILLE JAKES RUN OF DUNKARD CREEK Shall Include: West Virginia Code § 22-6A-16(b), this mber and electronic mail address of the crizontal drilling may be obtained from the 1 57 th Street, SE, Charleston, WV 25304 (Coreby given by:	Public Road Access: Generally used farm name: notice shall include the name, add operator and the operator's authorize Secretary, at the WV Department of 304-926-0450) or by visiting www.d	ress, telephone number, and if available, and representative. Additional information of Environmental Protection headquarters, ep.wv.gov/oil-and-gas/pages/default.aspx.
County: District: Quadrangle: Watershed: This Notice Pursuant to facsimile nurelated to hoo located at 60 Notice is he Well Operato	CLAY BLACKSVILLE JAKES RUN OF DUNKARD CREEK Shall Include: West Virginia Code § 22-6A-16(b), this mber and electronic mail address of the crizontal drilling may be obtained from the 1 57 th Street, SE, Charleston, WV 25304 (Coreby given by:	Public Road Access: Generally used farm name: notice shall include the name, add operator and the operator's authorize Secretary, at the WV Department of 304-926-0450) or by visiting www.d	ress, telephone number, and if available, and representative. Additional information of Environmental Protection headquarters, ep.wv.gov/oil-and-gas/pages/default.aspx.
County: District: Quadrangle: Watershed: This Notice Pursuant to facsimile nur related to hos located at 60 Notice is he	CLAY BLACKSVILLE JAKES RUN OF DUNKARD CREEK Shall Include: West Virginia Code § 22-6A-16(b), this mber and electronic mail address of the crizontal drilling may be obtained from the 1 57 th Street, SE, Charleston, WV 25304 (Coreby given by:	Public Road Access: Generally used farm name: notice shall include the name, add operator and the operator's authorize Secretary, at the WV Department of 304-926-0450) or by visiting www.d	ress, telephone number, and if available, and representative. Additional information of Environmental Protection headquarters, ep.wv.gov/oil-and-gas/pages/default.aspx.
County: District: Quadrangle: Watershed: This Notice Pursuant to facsimile nur related to hoo located at 60 Notice is he Well Operato Address:	CLAY BLACKSVILLE JAKES RUN OF DUNKARD CREEK Shall Include: West Virginia Code § 22-6A-16(b), this observant and electronic mail address of the crizontal drilling may be obtained from the 157th Street, SE, Charleston, WV 25304 (coreby given by: OFFICE NORTHEAST NATURAL ENERGY LLC	Public Road Access: Generally used farm name: notice shall include the name, add operator and the operator's authorize Secretary, at the WV Department of 304-926-0450) or by visiting www.d Authorized Representative Address:	CR 29/4 MEPCO ress, telephone number, and if available, red representative. Additional information of Environmental Protection headquarters, ep.wv.gov/oil-and-gas/pages/default.aspx. Hollie Medley, Regulatory Manager
County: District: Quadrangle: Watershed: This Notice Pursuant to facsimile nur related to hos located at 60 Notice is he Well Operate Address: Telephone:	CLAY BLACKSVILLE JAKES RUN OF DUNKARD CREEK Shall Include: West Virginia Code § 22-6A-16(b), this mber and electronic mail address of the crizontal drilling may be obtained from the 157 th Street, SE, Charleston, WV 25304 (coreby given by: NORTHEAST NATURAL ENERGY LLC 707 Virginia Street East, Suite 1200	Public Road Access: Generally used farm name: notice shall include the name, add operator and the operator's authorize Secretary, at the WV Department of 304-926-0450) or by visiting www.d	ress, telephone number, and if available, red representative. Additional information of Environmental Protection headquarters, ep.wv.gov/oil-and-gas/pages/default.aspx. Hollie Medley, Regulatory Manager 48 Donley Street, Suite 601
County: District: Quadrangle: Watershed: This Notice Pursuant to facsimile nur related to hoo located at 60 Notice is he Well Operato Address:	CLAY BLACKSVILLE JAKES RUN OF DUNKARD CREEK Shall Include: West Virginia Code § 22-6A-16(b), this mber and electronic mail address of the crizontal drilling may be obtained from the 157 th Street, SE, Charleston, WV 25304 (Coreby given by: NORTHEAST NATURAL ENERGY LLC 707 Virginia Street East, Suite 1200 Charleston, WV 25301	Public Road Access: Generally used farm name: notice shall include the name, add operator and the operator's authorize Secretary, at the WV Department of 304-926-0450) or by visiting www.d Authorized Representative Address:	CR 29/4 MEPCO ress, telephone number, and if available, and representative. Additional information of Environmental Protection headquarters, ep.wv.gov/oil-and-gas/pages/default.aspx. Hollie Medley, Regulatory Manager 48 Donley Street, Suite 601 Morgantown, WV 26501

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WW-6A5 (1/12)

Operator Well No. MEPCO 8H

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

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

Date of Notic	ce: 08/04/2017	Date Permit Applicat	tion Filed: 08/1	4/2017	
Delivery met	hod pursuant to West	Virginia Code § 22-6A-	16(c)		
	FIED MAIL RN RECEIPT REQUES	TED HAN	D IVERY		
return receipt the planned of required to be drilling of a l damages to the	requested or hand deliver prevaled by subsection horizontal well; and (3) the surface affected by oil	very, give the surface own required by this subsection (b), section ten of this at A proposed surface used and gas operations to the	ner whose land on shall include rticle to a surfate and compense e extent the da	will be used for the copy are owner whose 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 e land will be used in conjunction with the t containing an offer of compensation for pensable under article six-b of this chapter. Ited in the records of the sheriff at the time
(at the addres Name: Consolid Address: CNX	eby provided to the SUs listed in the records of ation Coal Company Center, 1000 Consol Energy Drivensburg, PA 15317	the sheriff at the time of	Name: N	MEPCO LLC :: 103 CORPORATE MORGANTOWN, W	
	est Virginia Code § 22-	-6A-16(c), notice is hereb		Well on the trace Easting: Northing: Access:	well operator has developed a planned et of land as follows: 572722.26 4390667.11 County Route 29/4 MEPCO
Pursuant to W to be provide horizontal we surface affect information r	ed by W. Va. Code § all; and (3) A proposed seed by oil and gas operated to horizontal dri located at 601 57th St	22-6A-10(b) to a surface surface use and compensations to the extent the dlling may be obtained fr	owner whose ation agreement lamages are come the Secret	land will be un nt containing an ompensable und ary, at the WV	code section; (2) The information required used in conjunction with the drilling of a offer of compensation for damages to the er 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 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.

AUG 1 6 2017



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

January 6, 2016

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

Subject: DOH Permit for the Mepco Pad, Monongalia County Mepco 8H

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.

Day K. Clayter

Regional Maintenance Engineer Central Office O&G Coordinator

Cc: Hollie Medley

Northeast Natural Energy Corporation

CH, OM, D-4

File

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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
HCI, 10.1-15%	Acidizing	Hydrochloric Acid	7647-01-0
		Water	7732-18-5
Alpha 1427	Biocide	Alkyl Dimethyl Benzyl Ammonium Chloride (C12-16)	68424-85-1
		Ethanol	64-17-5
		Glutaraldehyde	111-30-8
		Quaternary Ammonium Chloride	7173-51-5
		Water	7732-18-5
Enzyme G-NE	Breaker	Hemicellulase Enzyme Concentrate	9025-56-3
		Water	7732-18-5
Cl-14	Corrosion Inhibitor	Fatty Acids	NA
		Methanol	67-56-1
		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