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west virginia department of environmental protection

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Office of Oil and Gas  
601 57<sup>th</sup> 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 3, 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 2H  
47-061-01744-00-00

**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 2H  
Farm Name: MEPCO, LLC  
U.S. WELL NUMBER: 47-061-01744-00-00  
Horizontal 6A / Horizontal 6A Well - 1  
Date Issued: November 3, 2017

Promoting a healthy environment.

11/03/2017

*Mc*

WW-6B  
(04/15)

API NO. 47- 061-01744 mob  
OPERATOR WELL NO. MEPCO 2H  
Well Pad Name: MEPCO

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

1) Well Operator: NORTHEAST NATURAL ENERGY LLC 494498281 MONONGALIA CLAY BLACKSVILLE  
Operator ID County District Quadrangle

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

3) Farm Name/Surface Owner: MEPCO LLC Public Road Access: CR 29/7

4) Elevation, current ground: 1,452.74' Elevation, proposed post-construction: 1,424.00'

5) Well Type (a) Gas X Oil NA Underground Storage NA  
Other NA

(b) If Gas Shallow X Deep NA  
Horizontal X

6) Existing Pad: Yes or No NO *MDK 8/10/2017*

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

8) Proposed Total Vertical Depth: 8,222'

9) Formation at Total Vertical Depth: MARCELLUS

10) Proposed Total Measured Depth: 16,761.43'

11) Proposed Horizontal Leg Length: 7,957'

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

13) Method to Determine Fresh Water Depths: DRILLER'S LOG FROM OFFSET WELLS

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

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

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

17) Does Proposed well location contain coal seams directly overlying or adjacent to an active mine? Yes \_\_\_\_\_ No X

(a) If Yes, provide Mine Info: Name: \_\_\_\_\_  
Depth: \_\_\_\_\_  
Seam: \_\_\_\_\_  
Owner: \_\_\_\_\_

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18)

**CASING AND TUBING PROGRAM**

TYPE	Size (in)	New or Used	Grade	Weight per ft. (lb/ft)	FOOTAGE: For Drilling (ft)	INTERVALS: Left in Well (ft)	CEMENT: Fill-up (Cu. Ft.)/CTS
Conductor	24"	NEW	NA	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	16,761.43'	16,731.43'	3,890 CU. FT.
Tubing	2 3/8"	NEW	P-110	4.7	NA	8,500'	NA
Liners							

MGK 8/10/2017

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"	19,570	3,600	NA	NA
Liners							

**PACKERS**

Kind:				
Sizes:				
Depths Set:				

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WW-6B  
(10/14)

API NO. 47-061-01744 MOD  
OPERATOR WELL NO. MEPCO 2H  
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 6,800' TVD/MD. The well will then be horizontally drilled on fluid from KOP to approximately 8,222' TVD / 16,761.43' 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:

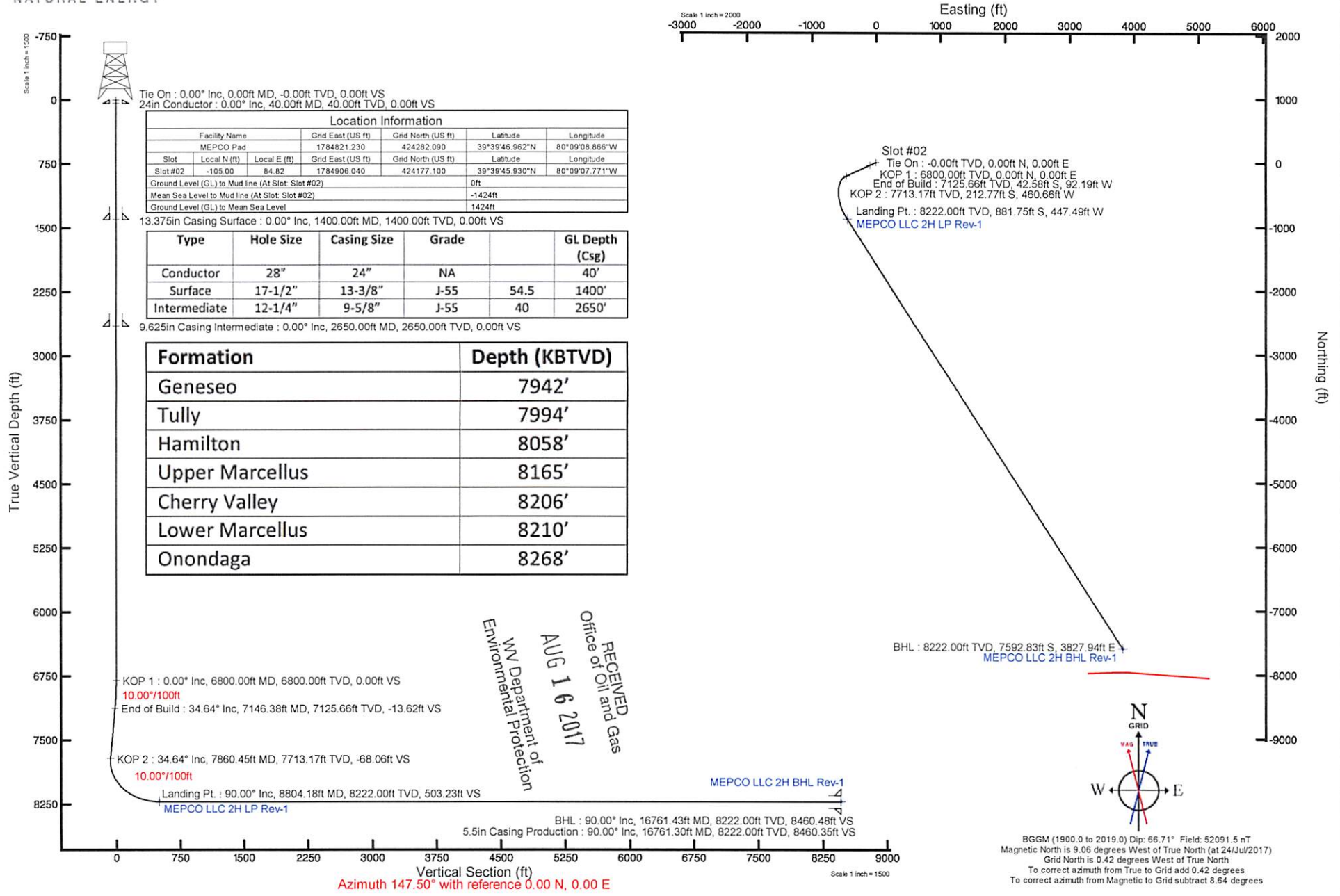
Surface string will use a 35.0 bbls Gel Pill + LCM + 25 lbs Cello Flake + 20 lbs/bbl Bentonite + 80 lbs Fed Seal @ 8.4 ppg & 10 bbls fresh water spacer prior to cement. Intermediate string will use a 35.0 bbls Gel Pill + LCM + 25 lbs Cello Flake + 20 lbs/bbl Bentonite + 80 lbs Fed Seal @ 8.4 ppg & 10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

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\*Note: Attach additional sheets as needed.

Page 3 of 3  
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Tie On : 0.00° Inc, 0.00ft MD, -0.00ft TVD, 0.00ft VS  
 24in Conductor : 0.00° Inc, 40.00ft MD, 40.00ft TVD, 0.00ft VS

Location Information					
Facility Name	Grid East (US ft)	Grid North (US ft)	Latitude	Longitude	
MEPCO Pad	1784821.230	424282.090	39°39'46.962"N	80°09'08.866"W	
Slot	Local N (ft)	Local E (ft)	Grid East (US ft)	Grid North (US ft)	Longitude
Slot #02	-105.00	84.82	1784908.040	424177.100	39°39'45.930"N 80°09'07.771"W
Ground Level (GL) to Mud line (At Slot Slot #02)			0ft		
Mean Sea Level to Mud line (At Slot Slot #02)			-1424ft		
Ground Level (GL) to Mean Sea Level			1424ft		

13.375in Casing Surface : 0.00° Inc, 1400.00ft MD, 1400.00ft TVD, 0.00ft VS

Type	Hole Size	Casing Size	Grade	GL Depth (Csg)
Conductor	28"	24"	NA	40'
Surface	17-1/2"	13-3/8"	J-55	54.5 1400'
Intermediate	12-1/4"	9-5/8"	J-55	40 2650'

9.625in Casing Intermediate : 0.00° Inc, 2650.00ft MD, 2650.00ft TVD, 0.00ft VS

Formation	Depth (KBTVD)
Geneseo	7942'
Tully	7994'
Hamilton	8058'
Upper Marcellus	8165'
Cherry Valley	8206'
Lower Marcellus	8210'
Onondaga	8268'

KOP 1 : 0.00° Inc, 6800.00ft MD, 6800.00ft TVD, 0.00ft VS  
 10.00°/100ft  
 End of Build : 34.64° Inc, 7146.38ft MD, 7125.66ft TVD, -13.62ft VS

KOP 2 : 34.64° Inc, 7860.45ft MD, 7713.17ft TVD, -68.06ft VS  
 10.00°/100ft  
 Landing Pt. : 90.00° Inc, 8804.18ft MD, 8222.00ft TVD, 503.23ft VS  
 MEPCO LLC 2H LP Rev-1

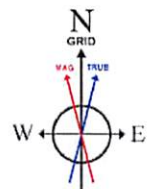
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MEPCO LLC 2H BHL Rev-1

BHL : 90.00° Inc, 16761.43ft MD, 8222.00ft TVD, 8460.48ft VS  
 5.5in Casing Production : 90.00° Inc, 16761.30ft MD, 8222.00ft TVD, 8460.35ft VS

Slot #02  
 Tie On : -0.00ft TVD, 0.00ft N, 0.00ft E  
 KOP 1 : 6800.00ft TVD, 0.00ft N, 0.00ft E  
 End of Build : 7125.66ft TVD, 42.58ft S, 92.19ft W  
 KOP 2 : 7713.17ft TVD, 212.77ft S, 460.66ft W  
 Landing Pt. : 8222.00ft TVD, 881.75ft S, 447.49ft W  
 MEPCO LLC 2H LP Rev-1

BHL : 8222.00ft TVD, 7592.83ft S, 3827.94ft E  
 MEPCO LLC 2H BHL Rev-1



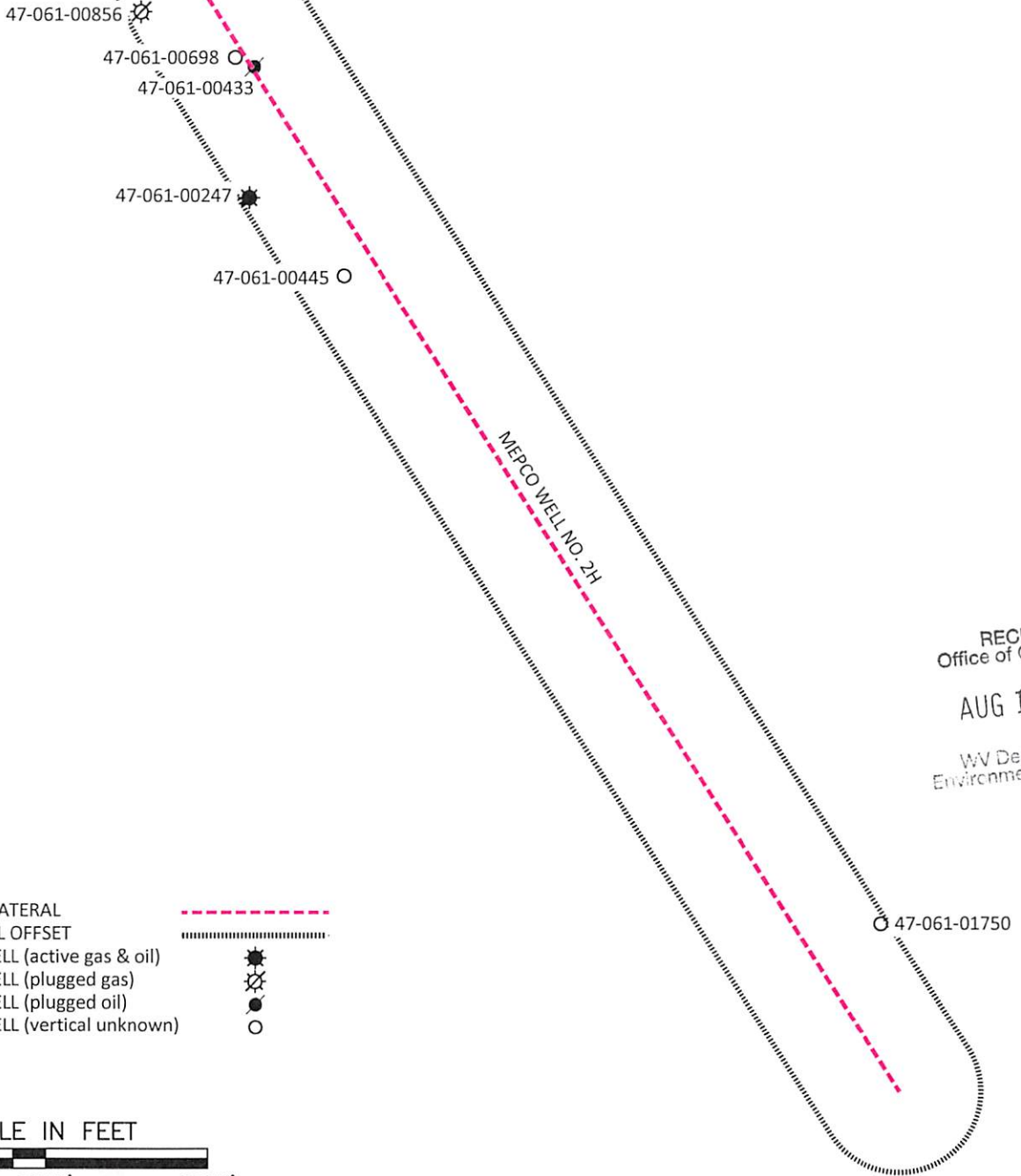
BGGM (1900.0 to 2019.0) Dip: 66.71° Field: 52091.5 nT  
 Magnetic North is 9.06 degrees West of True North (at 24/Jul/2017)  
 Grid North is 0.42 degrees West of True North  
 To correct azimuth from True to Grid add 0.42 degrees  
 To correct azimuth from Magnetic to Grid subtract 8.64 degrees

161-01744 MOD

61-01744 MOD



NORTH



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LEGEND

- PROPOSED LATERAL
- 500' LATERAL OFFSET
- EXISTING WELL (active gas & oil)
- EXISTING WELL (plugged gas)
- EXISTING WELL (plugged oil)
- EXISTING WELL (vertical unknown)

SCALE IN FEET



**Civil & Environmental Consultants, Inc.**

600 Marketplace Ave · Suite 200 · Bridgeport, WV 26330  
Ph: 304.933.3119 · Fax: 304.933.3327  
www.cecinc.com

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

MEPCO WELL NO. 2H  
AREA OF REVIEW

DRAWN BY:	LDM	CHECKED BY:	JDR	APPROVED BY:	DEM	FIGURE NO.:	11/03/2017
DATE:	AUGUST 8, 2017	DWG SCALE:	1"=1,000'	PROJECT NO.:	150-445		

P:\2015\150-445\Survey\Draw\Well Plats\FINAL PLATS\AREA OF REVIEW\150445-SRV-MEPCO WELL 2H ADR.dwg\MEPCO 2H ADR\LS(8/9/2017 - Imoody) - LP: 8/9/2017 7:50 AM

61-01-14 Mon

AREA OF REVIEW  
MEPCO WELL 2H

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'
4706100698	J.G.CONAWAY	2	EASTERN ASSOCIATED COAL / PEABODY COAL CO.	PLUGGED	UNKNOWN	UNKNOWN
4706100433	J. W. WRIGHT	WRIGHT 1	CONSOLIDATION COAL CO.	PLUGGED OIL	2037'	1128.4'
4706100247	J. W. WRIGHT	15	CONSOLIDATION COAL CO.	VERTICAL GAS	2248'	1312.35'
4706100445	MIKE WRIGHT	4	CONSOLIDATION COAL CO.	VERTICAL UNKNOWN	2463'	1220'
4706101750	CORDRAY	CORDRAY 4	NORTHEAST NATURAL ENERGY	VERTICAL OIL	UNKNOWN	1380'

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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

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, CaCl, BARITE, EMULSIFIERS, MICA LCM, WATER LOSS AGENTS

Drill cuttings disposal method? Leave in pit, landfill, removed offsite, etc. REMOVED OFFSITE - PLEASE SEE ATTACHMENT "A"

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

-Landfill or offsite name/permit number? PLEASE SEE ATTACHMENT "A"

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

I certify that I understand and agree to the terms and conditions of the GENERAL WATER POLLUTION PERMIT issued on August 1, 2005, by the Office of Oil and Gas of the West Virginia Department of Environmental Protection. I understand that the provisions of the permit are enforceable by law. Violations of any term or condition of the general permit and/or other applicable law or regulation can lead to enforcement action.

I certify under penalty of law that I have personally examined and am familiar with the information submitted on this application form and all attachments thereto and that, based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the information is true, accurate, and complete. I am aware that the transmission of false information is a violation of the law and that the transmission of false information is a violation of the law and that the transmission of false information is a violation of the law.

Company Official Signature Hollie M Medley  
Company Official (Typed Name) HOLLIE M MEDLEY  
Company Official Title REGULATORY MANAGER



OFFICIAL SEAL  
STATE OF WEST VIRGINIA  
NOTARY PUBLIC  
Shana Kennedy  
230 Hugsavarna Drive  
Morgantown, WV 26508  
My Commission Expires Dec. 29, 2021

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Office of Oil and Gas

Subscribed and sworn before me this 10<sup>th</sup> day of August, 2017

Shana Kennedy Notary Public

My commission expires 12/29/21

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61-01744

Form WW-9

Operator's Well No. MEPCO 2H

**NORTHEAST NATURAL ENERGY LLC**

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

Lime 2 Tons/acre or to correct to pH 7

Fertilizer type 19-19-19

Fertilizer amount 300 lbs/acre

Mulch 2 Tons/acre

Seed Mixtures

Temporary				Permanent			
Seed Type		lbs/acre		Seed Type		lbs/acre	
Orchard Grass		46		Orchard Grass		46	
Red Clover		8		Red Clover		8	
Tetraploid Perennial Rye 16				Tetraploid Perennial Rye 16			
Timothy 15	Annual Rye 15	Timothy 15	Annual Rye 1	Timothy 15	Annual Rye 1	Timothy 15	Annual Rye 1

Attach:

Drawing(s) of road, location, pit and proposed area for land application (unless engineered plans including this info have been provided)

Photocopied section of involved 7.5' topographic sheet.

Plan Approved by: *Haynes J. K. [Signature]*

Comments: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

Title: Inspector

Date: 8/10/2017

Field Reviewed? (  ) Yes (  ) No

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Attachment A to WW-9

Northeast Natural Energy LLC (“NNE”) plans to utilize a closed loop process for its drilling of the MEPCO 2H 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 2H Drill Cuttings will be taken to disposal at one or more of the following disposal/approved waste facilities, unless listed facilities are no longer approved to accept waste at time of disposal:

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

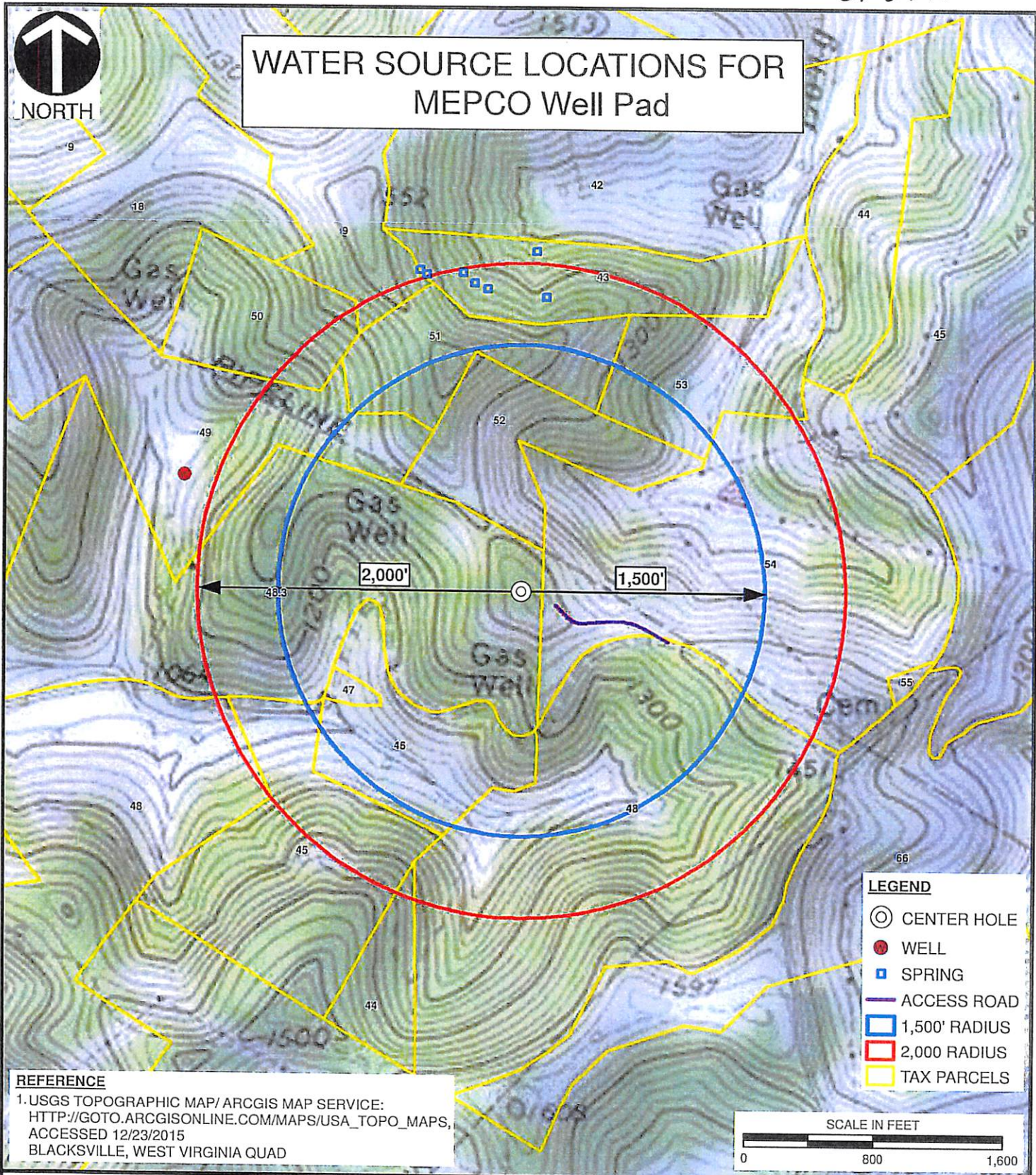
NNE plans to reuse and recycle all flowback fluid and/or reach out to other operators in the area who may be able to reuse and recycle such fluid. However, in the event that reuse is not obtainable the fluid will be disposed of at one, or multiple, of the following disposal/approved waste facilities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

- Fairmont Brine Processing (WV NPDES #0116408)
- Green Hunter M. E. Elder 1 Disposal Well (Permit # 47-085-05151)
- Green Hunter Mason 1 Disposal Well (Permit #47-085-09721)
- Green Hunter Warren Disposal Well (Permit #34-121-2-3995)
- Green Hunter Travis Unit Disposal Well (Permit #34-121-2-4086)
- Viking Energy Corporation 20320 Disposal Well (Permit#47-039-02210)
- Ohio Oil Gathering Killbuck Disposal Well (Permit #34-075-24527)
- Ohio Oil Gathering Moran Disposal Well (Permit #34-089-24792)
- Ohio Oil Gathering Bells Run Disposal Well (Permit #34-167-29395)
- Ohio Oil Gathering Long Run Disposal Well (Permit #34-167-29658)
- Ohio Oil Gathering Newell Run Disposal Well (Permit #34-167-29685)
- Appalachian Oil Purchaser Greens Run Disposal Well (Permit #2D0732540)
- Appalachian Oil Purchaser BW#4 Disposal Well (Permit # 2D0732523)

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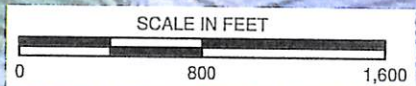
61-01744

# WATER SOURCE LOCATIONS FOR MEPCO Well Pad



**REFERENCE**  
 1. USGS TOPOGRAPHIC MAP/ ARCGIS MAP SERVICE:  
[HTTP://GOTO.ARCGISONLINE.COM/MAPS/USA\\_TOPO\\_MAPS](http://goto.arcgisonline.com/maps/usa_topo_maps),  
 ACCESSED 12/23/2015  
 BLACKSVILLE, WEST VIRGINIA QUAD

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



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

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NORTHEAST NATURAL ENERGY LLC  
 MEPCO PAD  
 2017 MONONGALIA COUNTY, WEST VIRGINIA

WV Department of Environmental Protection

WATER SOURCES FOR MEPCO PAD

DRAWN BY: MAF	CHECKED BY: JDR	APPROVED BY: *Hand signature on file SAC*
DATE: 12/21/2015	SCALE: 1" = 800'	PROJECT NO: 150-445.0021

FIGURE NO: WT  
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SURFACE HOLE SURVEYED LONGITUDE -80°09'07.77"  
 BOTTOM HOLE SURVEYED LONGITUDE -80°08'18.13"

7,646'

3,765'

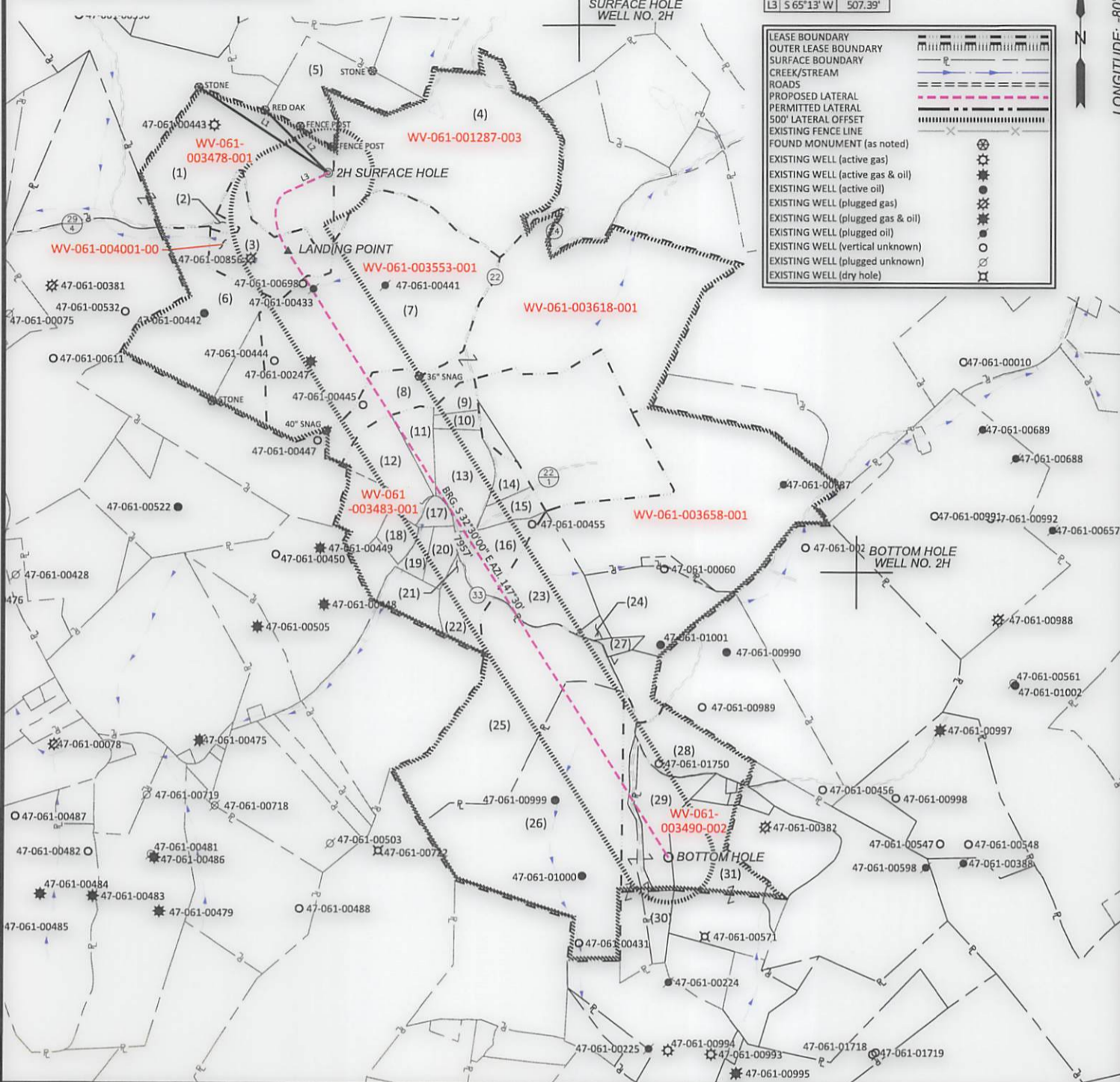
LATITUDE: 39°40'00"

**NORTHEAST NATURAL ENERGY LLC**  
**MEPCO WELL NO. 2H**  
**LEASE NO. WV-061-003478-001**

ID	BEARING	DISTANCE
L1	N 56°47' W	1725.66'
L2	N 45°28' W	987.52'
L3	S 65°13' W	507.39'

**LEGEND**

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



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



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

DATE AUGUST 28, 2017  
 SCALE 1" = 1600' ACCURACY 1:2500  
 OPERATORS 2H  
 WELL No. 47-061-01744 Alfa  
API No. MOD

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

PROPOSED WORK ON LOCATION:  
Drill  Drill Deeper  Redrill  Convert   
Fracture/ Stimulate  \*Plug off to Formation   
Perforate New Formation  Plug and Abandon   
Clean/ Replug  Other Than Above   
 If "Other" Please see Details below—  
 DETAILS OF PROPOSED WORK \_\_\_\_\_  
 \*TARGET FORMATION MARCELLUS  
 ESTIMATED DEPTH TVD: 8,222' TMD: 16,761.43'

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



WELL AREA & LOCATION INFORMATION:  
 ELEVATION SOURCE DGPS (OPUS)  
 ELEVATION 1452.91' (EXISTING), 1424.00' (PROPOSED)  
 WATERSHED JAKES RUN OF DUNKARD CREEK DISTRICT 11/03/2017  
 COUNTY MONONGALIA TOPO QUAD BLACKSVILLE  
 SURFACE OWNER MEPCO LLC  
 ACREAGE 103.49 ±  
 ROYALTY OWNER NORTHEAST NATURAL ENERGY, LLC  
(LEASE NO. WV-061-003478-001)  
 LEASE ACREAGE 601.71 ±

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

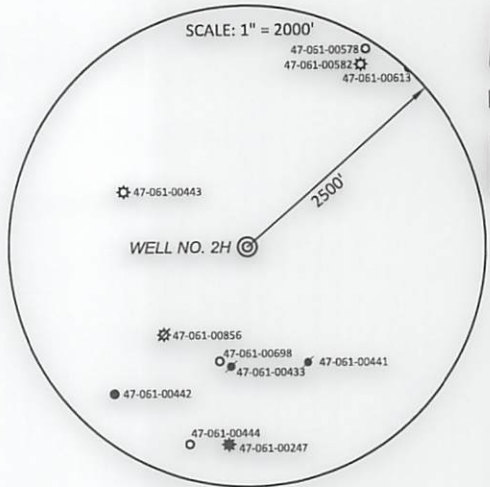
DESIGNATED AGENT JOHN ADAMS  
 ADDRESS 707 VIRGINIA STREET EAST, SUITE 1200  
CHARLESTON, WV 25301

SURFACE HOLE SURVEYED LONGITUDE -80°09'07.77" BOTTOM HOLE SURVEYED LONGITUDE -80°08'18.14" 7,646' 3,765' LATITUDE: 39°40'00"

**NORTHEAST NATURAL ENERGY LLC  
MEPCO WELL NO. 2H  
LEASE NO. WV-061-003478-001**

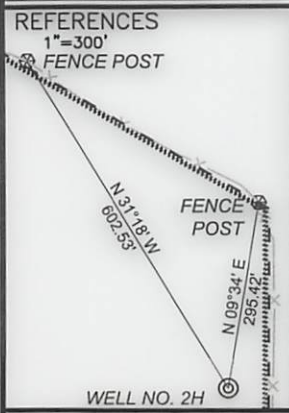
TOP HOLE (NAD 83) N) 424177.10 E) 1784906.04 LAT.) 39°39'45.93" LONG.) 80°09'07.77" DEC. LAT.) 39.662758 DEC. LONG.) -80.152159	LP (NAD 83) N) 423295.40 E) 1784458.58 LAT.) 39°39'37.18" LONG.) 80°09'13.41" DEC. LAT.) 39.660329 DEC. LONG.) -80.153725	BOTTOM HOLE (NAD 83) N) 416584.73 E) 1788733.75 LAT.) 39°38'31.16" LONG.) 80°08'18.13" DEC. LAT.) 39.641990 DEC. LONG.) -80.138371
TOP HOLE (NAD 27) N) 424140.02 E) 1816342.86 LAT.) 39°39'45.64" LONG.) 80°09'08.52" DEC. LAT.) 39.662678 DEC. LONG.) -80.152365	LP HOLE (NAD 27) N) 423258.32 E) 1815895.45 LAT.) 39°39'36.90" LONG.) 80°09'14.16" DEC. LAT.) 39.660249 DEC. LONG.) -80.153932	BOTTOM HOLE (NAD 27) N) 416547.59 E) 1820170.74 LAT.) 39°38'30.87" LONG.) 80°08'18.88" DEC. LAT.) 39.641909 DEC. LONG.) -80.138577

TOP HOLE (UTM NAD 83) N) 4390671.24 E) 572726.74
LANDING POINT (UTM NAD 83) N) 4390400.33 E) 572594.90
BOTTOM HOLE (UTM NAD 83) N) 4388377.52 E) 573931.59



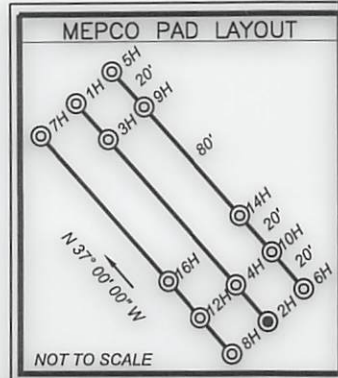
TAG	OWNER	DIST-TM-PAR	AC. ±
1	MEPCO LLC	4-16-48.3	103.49
2	DOWNEY HAROLD FOX EST	4-16-47	0.85
3	DOWNEY HAROLD FOX EST	4-16-46	21.9
4	CONSOL MINING COMPANY LLC	4-16-54	84.14
5	CONSOL MINING COMPANY LLC	4-16-52	19.97
6	A. KEITH MICHAEL, ET AL	4-16-45	35.53
7	A. KEITH MICHAEL, ET AL	4-16-48	206.00
8	JOE CLARK STATLER	4-16-66	97.69
9	RUSSELL & ALECTA LAWSON	4-16-72.10	3.00
10	RUSSELL & ALECTA LAWSON	4-16-72.12	2.00
11	JOHN H. & MELINDA S. LAWSON	4-16-72.5	6.73
12	ARTHUR LUZADER	4-16-72.8	16.06
13	JOHN H. & MELINDA S. LAWSON	4-16-72.11	13.27
14	ROBERT J. & IRENE C. CARUBIA	4-16-73	-
15	ROBERT JOSEPH & IRENE CATHERINE CARUBIA	4-16-73.1	5.00
16	ROBERT J. & IRENE C. CARUBIA	4-16-74	12.50
17	WILLIAM JONAH KERNS	4-16-72.9	2.26
18	HELEN & JESSE LEMASTERS	4-16-72.3	3.72
19	WADESTOWN VOLUNTEER FIRE DEPT.	4-16-72.6	2.78
20	MT. PLEASANT UNITED METHODIST CHURCH	4-16-72.13	2.35
21	CONSOL MINING COMPANY LLC	4-16-72.1	0.93
22	GEORGE H. RUCKLE	4-16-72	5.22
23	ROBERT J. & IRENE C. CARUBIA	4-16-75	20.86
24	ROY N. & CAROL A. TENNANT	4-16-76	8.035
25	MARK & BETTY EDDY, ET AL	4-21-20	58.910
26	MARK & BETTY EDDY, ET AL	4-21-21	83.46
27	GREGORY J. & DOROTHY E. HIXENBAUGH	4-16-76.1	1.65
28	MARK & BETTY EDDY	4-21-25	14.10
29	MARK & BETTY EDDY, ET AL	4-21-22	25.577
30	CHAD M. & MELISSA MATHENY	4-21-22.1	7.483
31	ARLIN PAUL EDDY	4-21-29	33.18

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



**NOTES ON SURVEY**

- NO OCCUPIED DWELLINGS OR BUILDINGS 2500 SQUARE FEET OR LARGER USED TO HOUSE OR SHELTER DAIRY CATTLE OR POULTRY HUSBANDRY WITHIN 625' OF THE CENTER OF THE WELL PAD WERE OBSERVED.
- NO WATER WELLS OR DEVELOPED SPRINGS USED FOR HUMAN OR DOMESTIC ANIMAL CONSUMPTION WERE FOUND WITHIN 250'.
- SURFACE OWNERSHIP TAKEN FROM THE MONONGALIA COUNTY TAX ASSESSOR AND COUNTY CLERK OFFICES IN OCTOBER, 2015.
- WELL LATITUDE AND LONGITUDE FROM SURVEY GRADE VRS SOLUTIONS.
- BEARINGS SHOWN ARE BASED UPON THE WV STATE PLANE COORDINATE SYSTEM, NAD 83 GRID NORTH ZONE.
- LEASE INFORMATION PROVIDED BY NORTHEAST NATURAL ENERGY LLC.
- PARCEL AND LEASE BOUNDARY LOCATIONS ARE APPROXIMATE AND BASED UPON RELEVANT GIS INFORMATION, FIELD LOCATION BOUNDARY EVIDENCE AND DEED DESCRIPTIONS.



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



**Civil & Environmental Consultants, Inc.**

DATE AUGUST 28, 2017

SCALE 1" = 1600' ACCURACY 1:2500

OPERATORS  
WELL No. 2H

47 - 061 - 01744 H6A  
API No. MOJ

TYPE OF WELL:

GAS:

Production  Storage  \*Deep  \*Shallow

PROPOSED WORK ON LOCATION:

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

\*TARGET FORMATION MARCELLUS

ESTIMATED DEPTH TVD: 8,222' TMD: 16,761.43'

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



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.

*[Handwritten Signature]*

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



WELL AREA & LOCATION INFORMATION:

ELEVATION SOURCE DGPS (OPUS)  
ELEVATION 1452.91' (EXISTING), 1424.00' (PROPOSED)  
WATERSHED JAKES RUN OF DUNKARD CREEK DISTRICT CLAY  
COUNTY MONONGALIA TOPO QUAD BLACKSVILLE  
SURFACE OWNER MEPCO LLC  
ACREAGE 103.49 ±  
ROYALTY OWNER NORTHEAST NATURAL ENERGY, LLC  
(LEASE NO. WV-061-003478-001)  
LEASE ACREAGE 601.71 ±

DESIGNATED AGENT JOHN ADAMS

ADDRESS 707 VIRGINIA STREET EAST, SUITE 1200  
CHARLESTON, WV 25301

SURFACE HOLE SURVEYED LATITUDE 39°39'45.93" LONGITUDE: -80°07'30" 8,989' 1,424'

BOTTOM HOLE SURVEYED LATITUDE 39°38'31.16"

11/03/2017

61-01744 MOD

NORTHEAST NATURAL ENERGY LLC  
MEPCO WELL NO. 2H  
LEASE NO. WV-061-003478-001

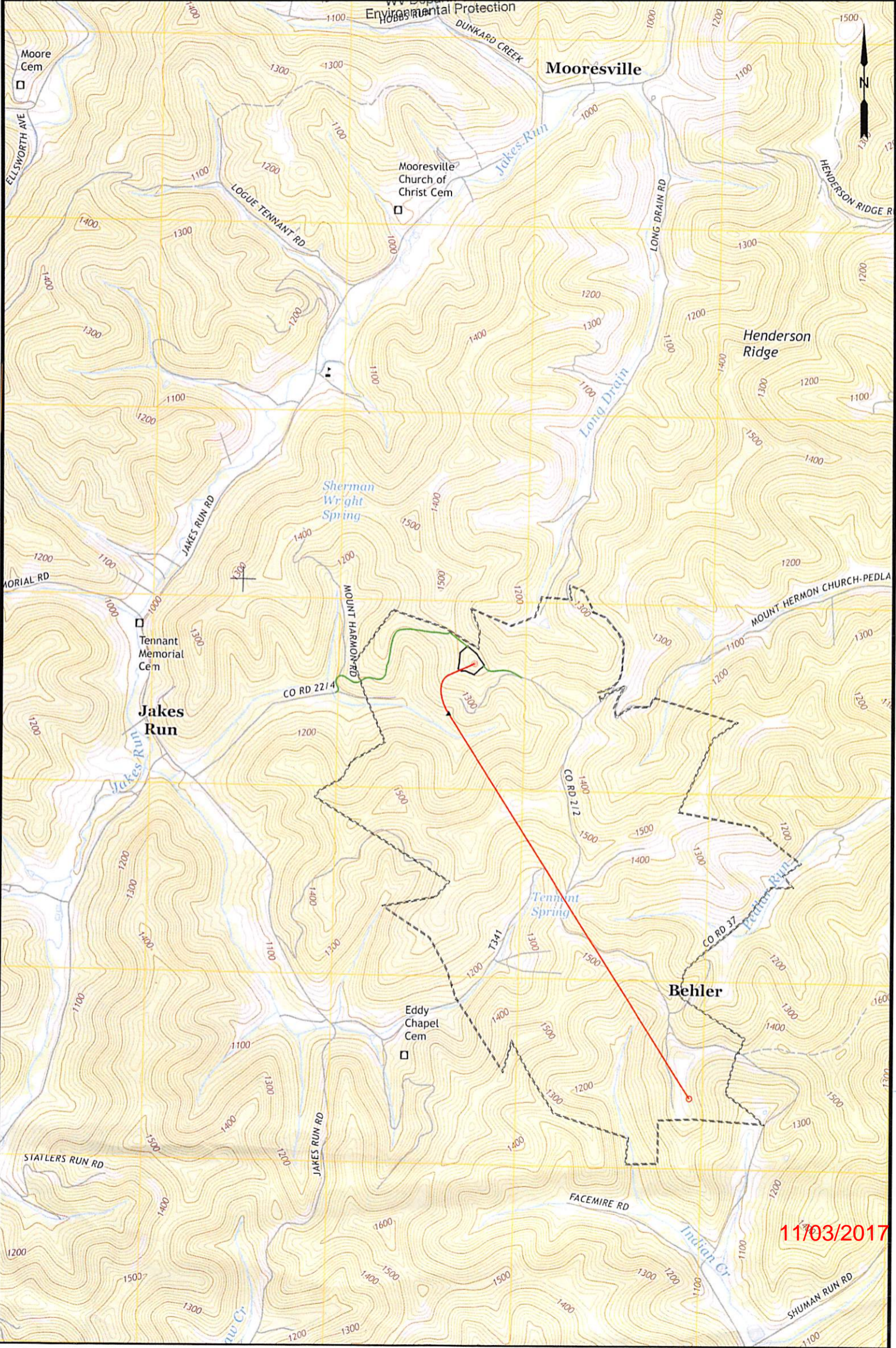
RECEIVED  
Office of Oil and Gas  
600 Marketplace Avenue, Suite 200  
Bridgeport, WV 26330  
Toll Free 855-488-9539  
Fax 304-933-3327

AUG 16 2017



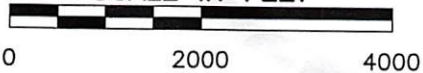
Civil & Environmental Consultants, Inc.

WV Department of  
Environmental Protection



11/03/2017

SCALE IN FEET



LEGEND	
--- (dashed line)	LEASE BOUNDARY
— (solid red line)	PROPOSED LATERAL
— (solid green line)	PAD
— (solid black line)	ACCESS ROAD
— (dotted line)	PROPOSED SURFACE HOLE
— (dotted line)	PROPOSED BOTTOM HOLE
— (solid black line with triangle)	PROPOSED LANDING POINT

WW-6A1  
(5/13)

Operator's Well No. MEPCO 2H

**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

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Office of Oil and Gas  
AUG 30 2017  
WV Department of  
Environmental Protection

**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 May  
 Its: Regulatory Manager

61-0174 MOD

WW-6A1	OPERATOR'S WELL NO.	MEPCO 2H		
NNE LEASE NUMBER	GRANTOR, LESSOR, ETC	GRANTEE, LESSEE, ETC	ROYALTY	BK/PG
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-061-004001-000	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-061-003618-001	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	1534/116
WV-061-003554-005	JANET D SHIPLEY	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	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	1534/116
WV-061-003554-005	JANET D SHIPLEY	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	1501/740
WV-061-003554-001	JUNE C MYERS	NORTHEAST NATURAL ENERGY LLC	0.125 OR GREATER	1523/795
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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	1534/116
WV-061-003554-005	JANET D SHIPLEY	NORTHEAST NATURAL ENERGY LLC	0.125 OR GREATER	
WV-061-003658-001	MICHAEL L STRAIGHT AND TERRY A 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 STRAIGHT AND ELIZABETH STRAIGHT	NORTHEAST NATURAL ENERGY LLC	DEED	1556/552
WV-061-003658-005	GENE LEWIS SHERMAN	NORTHEAST NATURAL ENERGY LLC	0.125 OR GREATER	1565/538
WV-061-003658-006	DONALD LEWIS WILDMAN	NORTHEAST NATURAL ENERGY LLC	DEED	1588/363
WV-061-003658-007	DAVID LEE WILDMAN AND SHARON B WILDMAN	NORTHEAST NATURAL ENERGY LLC	DEED	1588/366
WV-061-004020-000	MARK V EDDY AND BETTY A EDDY	NORTHEAST NATURAL ENERGY LLC	DEED	1505/572
WV-061-004017-000	JARRETT WILDMAN, ET AL	*JW SCOTT	0.125 OR GREATER	27/145
WV-061-004017-000	JARRETT WILDMAN, ET AL	*JW SCOTT	0.125 OR GREATER	27/145
WV-601-004020-000	MARK V EDDY AND BETTY A EDDY	NORTHEAST NATURAL ENERGY LLC	DEED	1505/572
WV-061-003658-001	MICHAEL L STRAIGHT AND TERRY A STRAIGHT	NORTHEAST NATURAL ENERGY LLC	0.125 OR GREATER	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 STRAIGHT AND ELIZABETH STRAIGHT	NORTHEAST NATURAL ENERGY LLC	DEED	1556/552
WV-061-004017-000	JARRETT WILDMAN, ET AL	*JW SCOTT	0.125 OR GREATER	27/145
WV-601-004020-000	MARK V EDDY AND BETTY A EDDY	NORTHEAST NATURAL ENERGY LLC	DEED	1505/572
WV-061-003658-001	MICHAEL L STRAIGHT AND TERRY A STRAIGHT	NORTHEAST NATURAL ENERGY LLC	0.125 OR GREATER	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 STRAIGHT AND ELIZABETH STRAIGHT	NORTHEAST NATURAL ENERGY LLC	DEED	1556/552
WV-061-003490-002	JUNE CORE MYERS	NORTHEAST NATURAL ENERGY LLC	DEED	1563/665
WV-061-003642-001	MARTHA R DONLEY	NORTHEAST NATURAL ENERGY LLC	DEED	1537/330
WV-061-003642-002	SYLVIA M CRITES AND RONALD L CRITES	NORTHEAST NATURAL ENERGY LLC	DEED	1553/789
WV-061-003642-003	DAVID C EDDY AND CAROLE L EDDY	NORTHEAST NATURAL ENERGY LLC	DEED	1560/794
WV-061-003642-005	KATHRYN A HULTGREN AND STEVEN HULTGREN	NORTHEAST NATURAL ENERGY LLC	DEED	1560/820
WV-061-003642-006	MARK T FELTZ	NORTHEAST NATURAL ENERGY LLC	DEED	1569/399
WV-061-004021-002	DAVID ANDERSON AND DIANA SMART-ANDERSON	NORTHEAST NATURAL ENERGY LLC	DEED	1568/363
WV-061-004021-003	DEREK W ANDERSON	NORTHEAST NATURAL ENERGY LLC	DEED	1568/369
WV-061-004021-004	THE ESTATE OF DAVIN JAMES ANDERSON	NORTHEAST NATURAL ENERGY LLC	DEED	1570/664
WV-061-004021-000	E J HUKILL AND COMPANY	*SOUTH PENN OIL CO	0.125 OR GREATER	22/21

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AUG 30 2017

WV Department of  
Environmental Protection

11/03/2017



61-01744 MOD

WW-6A1

OPERATOR'S WELL NO.

MEPCO 2H

NNE LEASE NUMBER	GRANTOR, LESSOR, ETC	GRANTEE, LESSEE, ETC	ROYALTY	BK/PG
WV-061-004035-000	MARION RODRIGUEZ AND VIRGINIA RODRIGUEZ	NORTHEAST NATURAL ENERGY LLC	0.125 OR GREATER	1555/298
WV-061-004036-000	MARION RODRIGUEZ AND VIRGINIA RODRIGUEZ	NORTHEAST NATURAL ENERGY LLC	0.125 OR GREATER	1555/303
WV-061-003597-001	NELLIE N CORDRAY	NORTHEAST NATURAL ENERGY LLC	0.125 OR GREATER	1539/456
WV-061-003597-002	BONNIE JEAN NEELY AND ALBERT C NEELY	NORTHEAST NATURAL ENERGY LLC	0.125 OR GREATER	1564/398
WV-061-003597-003	MARY C FEATHER	NORTHEAST NATURAL ENERGY LLC	0.125 OR GREATER	1564/396
WV-061-003597-004	EUGENIA CAROL KENNEDY	NORTHEAST NATURAL ENERGY LLC	DEED	1558/741
WV-061-003597-005	CATHY ANN PARLETT	NORTHEAST NATURAL ENERGY LLC	0.125 OR GREATER	1564/362
WV-061-003597-006	CHARLES ALAN PARLETT AND BARBARA PARLETT	NORTHEAST NATURAL ENERGY LLC	0.125 OR GREATER	1564/278
WV-061-003597-007	EVELYN RECTOR AND LYNN RECTOR	NORTHEAST NATURAL ENERGY LLC	DEED	1569/313
WV-061-003597-008	JOSEPH J BANIAC	NORTHEAST NATURAL ENERGY LLC	DEED	1563/196
WV-061-003597-009	TERRY L KAVE AND GREGORY L KAVE	NORTHEAST NATURAL ENERGY LLC	0.125 OR GREATER	1566/220
WV-061-003597-010	THE MARY MICHAEL CREDIT SHELTER TRUST	NORTHEAST NATURAL ENERGY LLC	0.125 OR GREATER	1565/468
WV-061-003597-011	ALLEN MURL MICHAEL AND CHARLOTTE L MICHAEL	NORTHEAST NATURAL ENERGY LLC	0.125 OR GREATER	1564/360
WV-061-003597-012	JUDY D DLUGOS AND STANLEY D DLUGOS	NORTHEAST NATURAL ENERGY LLC	0.125 OR GREATER	1567/464
WV-061-003597-013	SANDRA CORDRAY AND CARL E BARIBAULT	NORTHEAST NATURAL ENERGY LLC	0.125 OR GREATER	1564/286
WV-061-003597-014	GREGORY W FETTY	NORTHEAST NATURAL ENERGY LLC	0.125 OR GREATER	1565/499
WV-061-003597-015	SHARON WINDHAM AND JOHN H WINDHAM	NORTHEAST NATURAL ENERGY LLC	0.125 OR GREATER	1564/282
WV-061-003597-016	JACK CORDRAY AND SHARON CORDRAY	NORTHEAST NATURAL ENERGY LLC	0.125 OR GREATER	1521/468
WV-061-003597-017	SHAWN M CORDRAY	NORTHEAST NATURAL ENERGY LLC	0.125 OR GREATER	1564/284
WV-061-003597-018	STEVEN P PARLETT AND KAREN PARLETT	NORTHEAST NATURAL ENERGY LLC	0.125 OR GREATER	1564/288
WV-061-003597-019	MARY CORDRAY	NORTHEAST NATURAL ENERGY LLC	0.125 OR GREATER	1564/274
WV-061-003597-020	REBECCA CALEOTA AND WILLIAM E GALEOTA	NORTHEAST NATURAL ENERGY LLC	0.125 OR GREATER	1564/276
WV-061-003597-021	CHERYL WALLS AND TERRY D WALLS	NORTHEAST NATURAL ENERGY LLC	0.125 OR GREATER	1560/57
WV-061-003597-022	KENNETH CORDRAY AND PAULA M CORDRAY	NORTHEAST NATURAL ENERGY LLC	0.125 OR GREATER	1560/63
WV-061-003597-023	JAMES F ADAMS	NORTHEAST NATURAL ENERGY LLC	DEED	1569/89
WV-061-003597-024	MARY K SHREVE AND GARY SHREVE	NORTHEAST NATURAL ENERGY LLC	DEED	1569/309
WV-061-003597-025	KENNETH FETTY	NORTHEAST NATURAL ENERGY LLC	DEED	1569/225
WV-061-003597-026	SHARON VANGLIDER AND DONALD VANGLIDER	NORTHEAST NATURAL ENERGY LLC	DEED	1569/85
WV-061-003597-027	NANCY HOLBERT	NORTHEAST NATURAL ENERGY LLC	DEED	1569/221
WV-061-003597-028	HAROLD CAMPBELL	NORTHEAST NATURAL ENERGY LLC	DEED	1569/289
WV-061-003597-029	SHARON TYLKA AND GERALD J TYLKA	NORTHEAST NATURAL ENERGY LLC	DEED	1565/653
WV-061-003597-030	THE ESTATE OF DAVIN JAMES ANDERSON	NORTHEAST NATURAL ENERGY LLC	DEED	1565/656
WV-061-003597-031	DEREK W ANDERSON	NORTHEAST NATURAL ENERGY LLC	DEED	1566/635
WV-061-003597-032	DAVID ANDERSON AND DIANA SMART-ANDERSON	NORTHEAST NATURAL ENERGY LLC	DEED	1568/366
WV-061-003597-033	MARYANN BANIAC RUPPERT AND R MICHAEL	NORTHEAST NATURAL ENERGY LLC	DEED	1570/723
WV-061-003597-034	NORMA MAGLIONE	NORTHEAST NATURAL ENERGY LLC	0.125 OR GREATER	1571/469
WV-061-003597-035	HELEN MABEL BANIAC	NORTHEAST NATURAL ENERGY LLC	0.125 OR GREATER	1571/810
WV-061-003642-001	MARTHA R DONLEY	NORTHEAST NATURAL ENERGY LLC	DEED	1537/330
WV-061-003642-002	SYLVIA M CRITES AND RONALD L CRITES	NORTHEAST NATURAL ENERGY LLC	DEED	1553/789
WV-061-003642-003	DAVID C EDDY AND CAROLE L EDDY	NORTHEAST NATURAL ENERGY LLC	DEED	1560/794
WV-061-003642-005	KATHRYN A HULTGREN AND STEVEN HULTGREN	NORTHEAST NATURAL ENERGY LLC	DEED	1560/820
WV-061-003642-006	MARK T FELTZ	NORTHEAST NATURAL ENERGY LLC	DEED	1569/399
WV-061-004013-001	MARTHA R DONLEY	NORTHEAST NATURAL ENERGY LLC	DEED	1537/330
WV-061-004013-002	SYLVIA M CRITES AND RONALD L CRITES	NORTHEAST NATURAL ENERGY LLC	DEED	1553/789
WV-061-004013-003	DAVID C EDDY AND CAROLE L EDDY	NORTHEAST NATURAL ENERGY LLC	DEED	1560/794
WV-061-004013-004	KATHRYN A HULTGREN AND STEVEN HULTGREN	NORTHEAST NATURAL ENERGY LLC	DEED	1560/820
WV-061-004013-005	MARK T FELTZ	NORTHEAST NATURAL ENERGY LLC	DEED	1569/399

\*SEE ATTACHMENT

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

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

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61-01744 MOD

EM1 Energy Inc.

AS 125/638

D: 12/18/2014

R: 6/9/2015

Northeast Natural  
Energy LLC

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J. W. Scott  
Lease  
DR 27/145  
J. W. Scott

William Munhall and George P. Hukill  
Assignment  
DR 28/447

William Munhall and George P. Hukill and J. W. Scott, doing business as Mountain State Oil Company

South Penn Oil Company  
Assignment  
DR 32/240

South Penn Oil Company

South Penn Natural Gas Company  
Assignment  
DR 304/547

South Penn Natural Gas Company

South Penn Oil Company  
Assignment  
DR 580/311

**South Penn Oil Company merged with Pennzoil Company on July 31, 1963**

Pennzoil Company and United Gas Corporation

Pennzoil United Inc.  
Assignment  
DR 672/665

Pennzoil United Inc.

W. H. Allen  
Assignment  
DR 695/557

W. H. Allen

Union Trust & Deposit Company  
Assignment  
DR 695/556

W. H. Allen and James A. Allen

Edwin Associates, Inc.  
Assignment  
DR 754/594

Union Trust National Bank, as successor by conversion of Union Trust & Deposit Company

Edwin Associates, Inc.  
Assignment  
DR 754/598

Edwin Associates, Inc.

J. T. Carson  
Assignment  
DR 754/600

J. T. Carson

Thompson/Texas Associates Partnership  
Assignment  
DR 754/606

Thompson/Texas Associates Partnership, Thompson Pipe and Supply Company, Jack O. Thompson, Harold J. Arnsteen, Equidyne Investment Associates, Inc., individually and as partners and/or joint venturers in that entity known as Thompson/Texas Associates Partnership

Mark Eddy  
Assignment  
AR 21/22

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

Beth Eddy, Debbie Eddy and Melissa Eddy  
Assignment  
AR 21/582

Beth Stewart, Debbie Morris and Melissa Matheny

Mark V. Eddy  
Assignment  
AR 102/275

Mark V. Eddy & Betty Eddy (h&w) & Eddy Brothers

Northeast Natural Energy LLC  
Assignment  
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WW-60  
(7-01)

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

A F F I D A V I T

State of West Virginia

County of Monongalia

I, 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: Jeannie Morgan Johnson

Taken, subscribed and sworn to before me this 14th day of August, 20 17.

Brenda Malone-Pence  
Notary Public

My Commission expires: \_\_\_\_\_



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WV Department of  
Environmental Protection



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

Enclosure

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

Date of Notice Certification: 08/14/2017

API No. 47- 061 - 01744 MGD  
Operator's Well No. MEPCO 2H  
Well Pad Name: MEPCO

**Notice has been given:**

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

State: <u>West Virginia</u>	UTM NAD 83	Easting: <u>572726.74</u>
County: <u>Monongalia</u>		Northing: <u>4390671.24</u>
District: <u>Clay</u>	Public Road Access: <u>State Route 29/4</u>	
Quadrangle: <u>Blacksville</u>	Generally used farm name: <u>MEPCO LLC</u>	
Watershed: <u>Jakes Run of Dunkard Creek</u>		

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

<p>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:</p> <p>*PLEASE CHECK ALL THAT APPLY</p> <p><input type="checkbox"/> 1. NOTICE OF SEISMIC ACTIVITY or <input type="checkbox"/> NOTICE NOT REQUIRED BECAUSE NO SEISMIC ACTIVITY WAS CONDUCTED</p> <p><input checked="" type="checkbox"/> 2. NOTICE OF ENTRY FOR PLAT SURVEY or <input type="checkbox"/> NO PLAT SURVEY WAS CONDUCTED</p> <p><input checked="" type="checkbox"/> 3. NOTICE OF INTENT TO DRILL or <input type="checkbox"/> NOTICE NOT REQUIRED BECAUSE NOTICE OF ENTRY FOR PLAT SURVEY WAS CONDUCTED or</p> <p style="padding-left: 100px;"><input type="checkbox"/> WRITTEN WAIVER BY SURFACE OWNER (PLEASE ATTACH)</p> <p><input checked="" type="checkbox"/> 4. NOTICE OF PLANNED OPERATION</p> <p><input checked="" type="checkbox"/> 5. PUBLIC NOTICE</p> <p><input checked="" type="checkbox"/> 6. NOTICE OF APPLICATION</p>	<p><b>OOG OFFICE USE ONLY</b></p> <p><input type="checkbox"/> RECEIVED/ NOT REQUIRED</p> <p><input type="checkbox"/> RECEIVED</p> <p><input type="checkbox"/> RECEIVED/ NOT REQUIRED</p> <p><input type="checkbox"/> RECEIVED</p> <p><input type="checkbox"/> RECEIVED</p> <p><input type="checkbox"/> RECEIVED</p>
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**Required Attachments:**

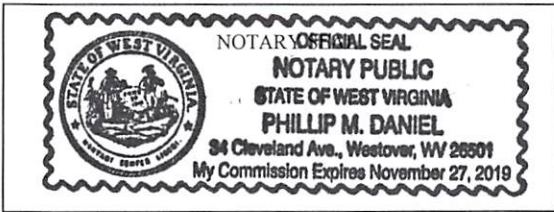
The Operator shall attach to this Notice Certification Form all Notice Forms and Certifications of Notice that have been provided to the required parties and/or any associated written waivers. For the Public Notice, the operator shall attach a copy of the Class II Legal Advertisement with publication 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 person, 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:	<u>Northeast Natural Energy LLC</u>	Address:	<u>707 Virginia Street East, Suite 1200</u>
By:	<u>Hollie M. Medley</u>		<u>Charleston, WV 25301</u>
Its:	<u>Regulatory Manager</u>	Facsimile:	<u>304.241.5972</u>
Telephone:	<u>304.212.0422</u>	Email:	<u>hmedley@nne-llc.com</u>



*Hollie M Medley*  
 Subscribed and sworn before me this 14<sup>th</sup> day of August, 2017  
Phillip M. 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 [depprivacyofficer@wv.gov](mailto:depprivacyofficer@wv.gov).

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

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

**Date of Notice:** 8/4/2017 **Date Permit Application Filed:** 8/14/2017

Notice of:

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

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

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

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

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

SURFACE OWNER(s)

Name: Please See Attached  
Address: \_\_\_\_\_

Name: \_\_\_\_\_  
Address: \_\_\_\_\_

SURFACE OWNER(s) (Road and/or Other Disturbance)

Name: Please See Attached  
Address: \_\_\_\_\_

Name: \_\_\_\_\_  
Address: \_\_\_\_\_

SURFACE OWNER(s) (Impoundments or Pits)

Name: \_\_\_\_\_  
Address: \_\_\_\_\_

COAL OWNER OR LESSEE

Name: Please See Attached  
Address: \_\_\_\_\_

COAL OPERATOR

Name: \_\_\_\_\_  
Address: \_\_\_\_\_

SURFACE OWNER OF WATER WELL AND/OR WATER PURVEYOR(s)

Name: Please See Attached  
Address: \_\_\_\_\_

OPERATOR OF ANY NATURAL GAS STORAGE FIELD

Name: \_\_\_\_\_  
Address: \_\_\_\_\_

\*Please attach additional forms if necessary

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API NO. 47-061 - 01744 MOB  
OPERATOR WELL NO. MEPCO 2H  
Well Pad Name: MEPCO

WV Department of  
Environmental Protection

**Notice is hereby given:**

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

**This Notice Shall Include:**

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

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

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

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

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

11/03/2017

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

**Water Well Testing:**

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

**Water Testing Laboratories:**

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

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

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

**Written Comment:**

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

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

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

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**Time Limits and Methods for Filing Comments.**

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

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

**Comment Requirements**

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

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

**Permit Denial or Condition**

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

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

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

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

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WW-6A  
(8-13)

API NO. 47-061 - 01744 MOD  
OPERATOR WELL NO. MEPCO 2H  
Well Pad Name: MEPCO

**Notice is hereby given by:**

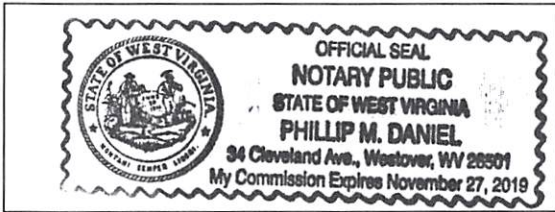
Well Operator: Northeast Natural Energy LLC  
Telephone: 304-212-0422  
Email: hmedley@nne-llc.com

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

**Oil and Gas Privacy Notice:**

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

*Hollis M Medley*



Subscribed and sworn before me this 14<sup>th</sup> day of August, 2017.  
Phillip M. Daniel Notary Public  
My Commission Expires 11/27/2019

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WW-6A

MEPCO 2H

**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

**Coal Owner or Lessee**

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

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

Gary G. Loring  
139 Thistledown Lane  
Morgantown, WV 26508

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

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11/03/2017

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

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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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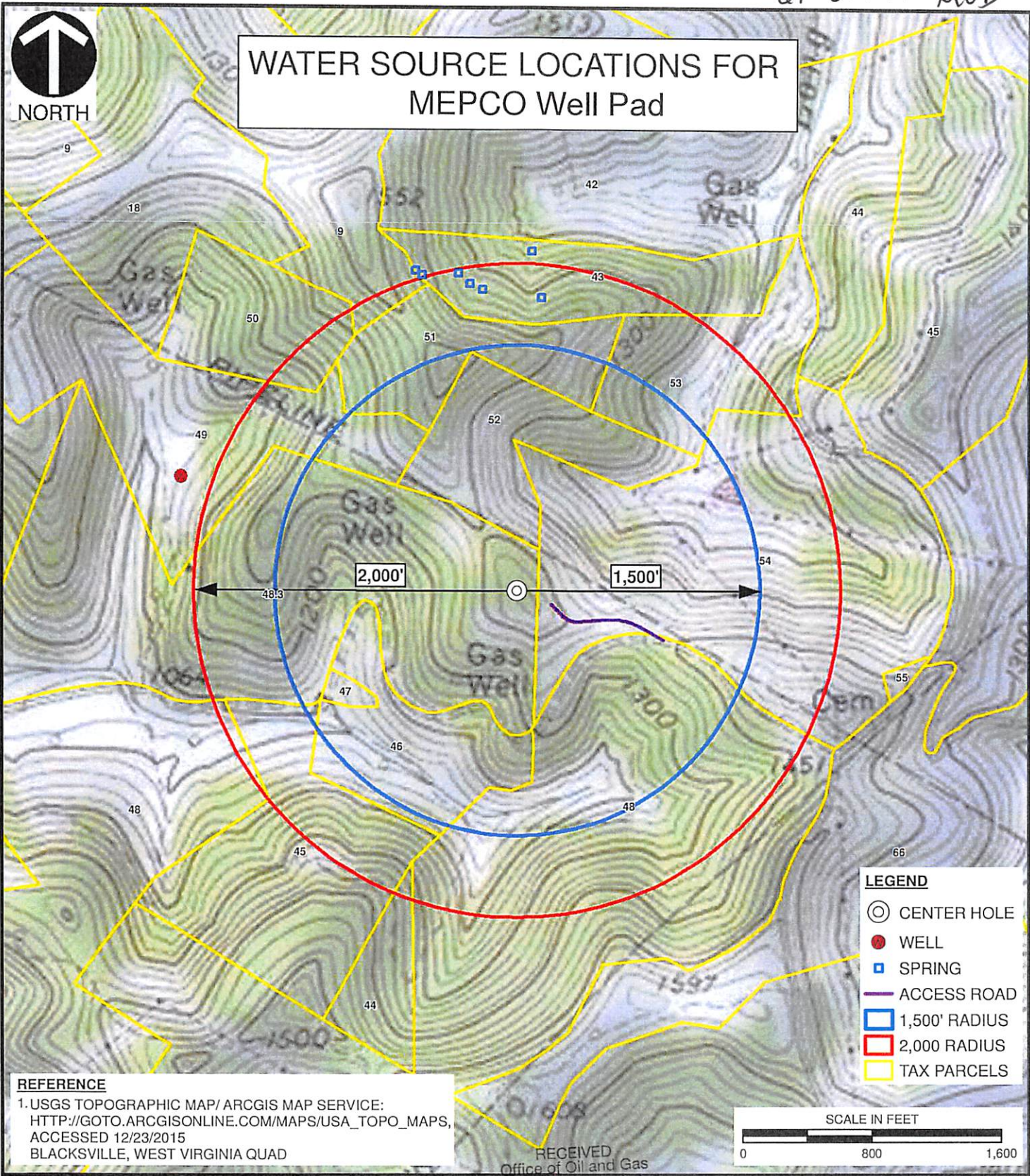
11/03/2017



61-01744 MOD

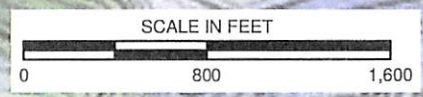


# WATER SOURCE LOCATIONS FOR MEPCO Well Pad



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

**REFERENCE**  
 1. USGS TOPOGRAPHIC MAP/ ARCGIS MAP SERVICE:  
[HTTP://GOTO.ARCGISONLINE.COM/MAPS/USA\\_TOPO\\_MAPS](http://gto.arcgis.com/maps/usa_topo_maps),  
 ACCESSED 12/23/2015  
 BLACKSVILLE, WEST VIRGINIA QUAD



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

AUG 16 2017  
 SOUTHEAST NATURAL ENERGY LLC  
 MEPCO PAD  
 MONONGALIA COUNTY, WEST VIRGINIA  
 WV Dept. of Environmental Protection

## WATER SOURCES FOR MEPCO PAD

DRAWN BY: MAF	CHECKED BY: JDR	APPROVED BY: <sup>*Hand signature on file</sup> SAC*	FIGURE NO: WT
DATE: 12/21/2015	SCALE: 1" = 800'	PROJECT NO: 150-445.0021	11/03/2017

\\Svr-bridgeport\p\2015\150-445-GIS\Maps\Task\_0021150445\_0021\_WATER\_WELL\_TOPO.mxd 12/21/2015 (mfrank)

41-01744

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

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

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

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

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

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

**Notice is hereby provided to:**

SURFACE OWNER(s)  
Name: SEE ATTACHMENT  
Address: \_\_\_\_\_  
\_\_\_\_\_  
Name: \_\_\_\_\_  
Address: \_\_\_\_\_  
\_\_\_\_\_  
Name: \_\_\_\_\_  
Address: \_\_\_\_\_  
\_\_\_\_\_

COAL OWNER OR LESSEE  
Name: SEE ATTACHMENT  
Address: \_\_\_\_\_  
\_\_\_\_\_

MINERAL OWNER(s)  
Name: SEE ATTACHMENT  
Address: \_\_\_\_\_  
\_\_\_\_\_

\*please attach additional forms if necessary

**Notice is hereby given:**

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

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

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

**Notice is hereby given by:**

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

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

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**Oil and Gas Privacy Notice:**

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

11/03/2017

WW-6A3 ATTACHMENT

MEPCO

**Surface Owner(s)**

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

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

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

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

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

**Coal Owner or Lessee**

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

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

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61-01744

**Mineral Owner**

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

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

Gregory G. Michael  
1176 Sands Drive  
Fairmont, WV 26554

Jane Ann Reynolds  
2 West Hill Drive  
Fairmont, WV 26554

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

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

**Notice Time Requirement:** Notice shall be provided at least **TEN (10)** days prior to filing a permit application.

**Date of Notice:** 08/04/2017      **Date Permit Application Filed:** 08/14/2017

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

HAND DELIVERY       CERTIFIED MAIL  
RETURN RECEIPT REQUESTED

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

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

Name: CONSOLIDATION COAL COMPANY  
Address: CNX CENTER, 1000 CONSOL ENERGY DRIVE  
CANONSBURG, PA 15317

Name: MEPCO, LLC  
Address: 103 CORPORATE DRIVE, SUITE 102  
MORGANTOWN, WV 26501

**Notice is hereby given:**

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

State: WEST VIRGINIA      UTM NAD 83      Easting: 572726.74  
County: MONONGALIA      Northing: 4390671.24  
District: CLAY      Public Road Access: CR 29/4  
Quadrangle: BLACKSVILLE      Generally used farm name: MEPCO  
Watershed: JAKES RUN OF DUNKARD CREEK

**This Notice Shall Include:**

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

**Notice is hereby given by:**

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

Authorized Representative: Hollie Medley, Regulatory Manager  
Address: 48 Donley Street, Suite 601  
Morgantown, WV 26501  
Telephone: 304-212-0422  
Email: hmedley@nne-llc.com  
Facsimile: 304-241-5972

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

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

**Date of Notice:** 08/04/2017      **Date Permit Application Filed:** 08/14/2017

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

CERTIFIED MAIL                                       HAND  
RETURN RECEIPT REQUESTED                                      DELIVERY

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

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

Name: Consolidation Coal Company  
Address: CNX Center, 1000 Consol Energy Drive  
Canonsburg, PA 15317

Name: MEPCO, LLC  
Address: 103 CORPORATE DRIVE, SUITE 102  
MORGANTOWN, WV 26501

**Notice is hereby given:**

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

State:	<u>West Virginia</u>	UTM NAD 83    Easting:	<u>572726.74</u>
County:	<u>Monongalia</u>	Northing:	<u>4390671.24</u>
District:	<u>Clay</u>	Public Road Access:	<u>County Route 29/4</u>
Quadrangle:	<u>Blacksville</u>	Generally used farm name:	<u>MEPCO</u>
Watershed:	<u>Jakes Run of Dunkard Creek</u>		

**This Notice Shall Include:**

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

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

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

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WEST VIRGINIA DEPARTMENT OF TRANSPORTATION  
**Division of Highways**

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

Earl Ray Tomblin  
Governor

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

January 6, 2016

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 2H

47-061-01744MOD

Dear Mr. Martin,

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

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

Very Truly Yours,

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

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

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**Planned Additives to be used in Fracturing Stimulations**

<b>Trade Name</b>	<b>Purpose</b>	<b>Ingredients</b>	<b>Cemical Abstract Service Numner (CAS#)</b>
Water	Carrier	Water	7732-18-5
HCl, 10.1-15%	Acidizing	Hydrochloric Acid Water	7647-01-0 7732-18-5
Alpha 1427	Biocide	Alkyl Dimethyl Benzyl Ammonium Chloride (C12-16) Ethanol Glutaraldehyde Quaternary Ammonium Chloride Water	68424-85-1 64-17-5 111-30-8 7173-51-5 7732-18-5
Enzyme G-NE	Breaker	Hemicellulase Enzyme Concentrate Water	9025-56-3 7732-18-5
CI-14	Corrosion Inhibitor	Fatty Acids Methanol Olefin Polyozyalkylenes Propargyl Alcohol	NA 67-56-1 NA NA 107-19-7
FRW-18	Friction Reducer	Hydrotreated Light Distillate	64742-47-8
Ferrotrol 300L	Iron Cnontrol	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

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01-01744 WOD