

west virginia department of environmental protection

Office of Oil and Gas 601 57th Street, S.E. Charleston, WV 25304 (304) 926-0450 fax: (304) 926-0452 Jim Justice , Governor Austin Caperton , Cabinet Secretary www.dep.wv.gov

Friday, November 03, 2017 WELL WORK PERMIT Horizontal 6A / New Drill

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

Re:

Permit approval for MEPCO 12H

47-061-01789-00-00

This well work permit is evidence of permission granted to perform the specified well work at the location described on the attached pages and located on the attached plat, subject to the provisions of Chapter 22 of the West Virginia Code of 1931, as amended, and all rules and regulations promulgated thereunder, and to any additional specific conditions and provisions outlined in the pages attached hereto. Notification shall be given by the operator to the Oil and Gas Inspector at least 24 hours prior to the construction of roads, locations, and/or pits for any permitted work. In addition, the well operator shall notify the same inspector 24 hours before any actual well work is commenced and prior to running and cementing casing. Spills or emergency discharges must be promptly reported by the operator to 1-800-642-3074 and to the Oil and Gas Inspector.

Please be advised that form WR-35, Well Operators Report of Well Work is to be submitted to this office within 90 days of completion of permitted well work, as should form WR-34 Discharge Monitoring Report within 30 days of discharge of pits, if applicable. Failure to abide by all statutory and regulatory provisions governing all duties and operations hereunder may result in suspension or revocation of this permit and, in addition, may result in civil and/or criminal penalties being imposed upon the operators.

Per 35 CSR 4-5.2.g this permit will expire in two (2) years from the issue date unless permitted well work is commenced. If there are any questions, please feel free to contact me at (304) 926-0450.

James A. Martin

Chief

Operator's Well Number: MEPCO 12H

Farm Name: MEPCO LLC

U.S. WELL NUMBER: 47-061-01789-00-00

Horizontal 6A / New Drill

Date Issued: 11/3/2017

Promoting a healthy environment.

API Number: <u>61-01789</u>

PERMIT CONDITIONS

West Virginia Code § 22-6A-8(d) allows the Office of Oil and Gas to place specific conditions upon this permit. Permit conditions have the same effect as law. Failure to adhere to the specified permit conditions may result in enforcement action.

CONDITIONS

- This proposed activity may require permit coverage from the United States Army Corps of Engineers (USACE). Through this permit, you are hereby being advised to consult with USACE regarding this proposed activity.
- 2. If the operator encounters an unanticipated void, or an anticipated void at an unanticipated depth, the operator shall notify the inspector within 24 hours. Modifications to the casing program may be necessary to comply with W. Va. Code § 22-6A-5a (12), which requires drilling to a minimum depth of thirty feet below the bottom of the void, and installing a minimum of twenty (20) feet of casing. Under no circumstance should the operator drill more than one hundred (100) feet below the bottom of the void or install less than twenty (20) feet of casing below the bottom of the void.
- 3. When compacting fills, each lift before compaction shall not be more than 12 inches in height, and the moisture content of the fill material shall be within limits as determined by the Standard Proctor Density test of the actual soils used in specific engineered fill, ASTM D698, Standard Test Method for Laboratory Compaction Characteristics of Soil Using Standard Effort, to achieve 95 % compaction of the optimum density. Each lift shall be tested for compaction, with a minimum of two tests per lift per acre of fill. All test results shall be maintained on site and available for review.
- 4. Operator shall install signage per § 22-6A-8g (6) (B) at all source water locations included in their approved water management plan within 24 hours of water management plan activation.
- 5. Oil and gas water supply wells will be registered with the Office of Oil and Gas and all such wells will be constructed and plugged in accordance with the standards of the Bureau for Public Health set forth in its Legislative rule entitled *Water Well Regulations*, 64 C.S.R. 19. Operator is to contact the Bureau of Public Health regarding permit requirements. In lieu of plugging, the operator may transfer the well to the surface owner upon agreement of the parties. All drinking water wells within fifteen hundred feet of the water supply well shall be flow tested by the operator upon request of the drinking well owner prior to operating the water supply well.
- 6. Pursuant to the requirements pertaining to the sampling of domestic water supply wells/springs the operator shall, no later than thirty (30) days after receipt of analytical data provide a written copy to the Chief and any of the users who may have requested such analyses.
- 7. 24 hours prior to the initiation of the completion process the operator shall notify the Chief or his designee.
- 8. During the completion process the operator shall monitor annular pressures and report any anomaly noticed to the chief or his designee immediately.
- 9. If any explosion or other accident causing loss of life or serious personal injury occurs in or about a well or well work on a well, the well operator or its contractor shall give notice, stating the particulars of the explosion or accident, to the oil and gas inspector and the Chief, within 24 hours of said accident.
- 10. During the casing and cementing process, in the event cement does not return to the surface, the oil and gas inspector shall be notified within 24 hours.

API Number: 61-01789

PERMIT CONDITIONS

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



OPERATOR WELL NO. MEPCO 12H
Well Pad Name: MEPCO

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

| 1) Well Operator: | NORTHEAST NA | ATURAL ENERGY LLC | 494498281 | MONONGALIA | CLAY | BLACKSVILLE |
|---|----------------|-------------------|----------------------|-----------------|------------|-------------------|
| , a | | | Operator ID | County | District | Quadrangle |
| 2) Operator's Well | Number: ME | EPCO 12H | Well Pad | Name: MEPO | CO | |
| 3) Farm Name/Sur | face Owner: | MEPCO LLC | Public Road | d Access: CR | 29/7 | |
| 4) Elevation, curre | nt ground: | 1,442.89' El | evation, proposed p | post-constructi | on: 1424.0 | 00' |
| 5) Well Type (a) | Gas X | Oil NA | Unde | erground Storag | ge NA | |
| Ot | her NA | | | | | |
| (b) | If Gas Sha | llow X | Deep | NA | | |
| | | rizontal X | | MA | 1/ | _/ |
| 6) Existing Pad: Yo | es or No NO | | | M | K 10/5 | 12011 |
| 7) Proposed Target MARCELLUS; 8, | | | ipated Thickness a | nd Expected Pi | essure(s): | |
| 3) Proposed Total | Vertical Deptl | h: 8,222' | | | | |
|) Formation at To | tal Vertical D | epth: MARCEL | LUS | | | |
| 0) Proposed Total | Measured De | epth: 17,597.43 | 3' | | | |
| 11) Proposed Horiz | zontal Leg Le | ngth: 8,069' | | | | |
| 12) Approximate F | resh Water St | trata Depths: | 50', 1,307' | | | |
| 13) Method to Dete | ermine Fresh | Water Depths: | DRILLER'S LOG F | FROM OFFSE | T WELLS | |
| 14) Approximate S | Saltwater Dept | ths: 1,947', 2,58 | 9' | | | |
| 15) Approximate C | Coal Seam De | pths: 662', 1,305 | 5' | | | |
| l 6) Approximate Γ | Depth to Possi | ble Void (coal mi | ne, karst, other): 1 | NA | | |
| 17) Does Proposed directly overlying (| | | | No | X | |
| (a) If Yes, provid | e Mine Info: | Name: | | | | |
| | | Depth: | | | | |
| | | Seam: | | | | RECEIVED |
| | | Owner: | | | | Office of Oil and |

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WW-6B (04/15) API NO. 47-061 - 01789

OPERATOR WELL NO. MEPCO 12H

Well Pad Name: MEPCO

18)

CASING AND TUBING PROGRAM

| ТҮРЕ | Size (in) | New or Used | Grade | Weight per ft. (lb/ft) | FOOTAGE: For Drilling (ft) | INTERVALS: Left in Well (ft) | CEMENT: Fill-up (Cu. Ft.)/CTS |
|--------------|--------------|-------------------|-------|---------------------------|-------------------------------|------------------------------------|-------------------------------------|
| Conductor | 24" | NEW | NA | 52.78 | 40' | 40' | CTS |
| Fresh Water | 13 3/8" | NEW | J-55 | 54.6 | 1,423' | 1,400' | CTS |
| Coal | | | | | | | |
| Intermediate | 9 5/8" | NEW | J-55 | 40 | 2,680' | 2,650' | CTS |
| Production | 5 1/2" | NEW | P-110 | 20 | 17,597.43' | 17,567.43' | 4094 CU. FT. |
| Tubing | 2 3/8" | NEW | P-110 | 4.7 | NA | 8,500' | NA |
| Liners | | | | | | | |

MgK 10/5/2017

| TYPE | Size (in) | Wellbore Diameter (in) | <u>Wall</u> <u>Thickness</u> <u>(in)</u> | Burst Pressure (psi) | Anticipated Max. Internal Pressure (psi) | Cement Type | <u>Cement</u> <u>Yield</u> (cu. ft./k) |
|--------------|-----------|---------------------------|--|-------------------------|--|-----------------|--|
| Conductor | 24" | 30" | .375" | 415 | | 4,500 PSI GROUT | NA |
| Fresh Water | 13 3/8" | 17 1/2" | .38" | 2,760 | 2,000 | CLASS A | 1.23 |
| Coal | | | | | | | |
| Intermediate | 9 5/8" | 12 1/4" | .395" | 3,950 | 3,000 | CLASS A | 1.3 |
| Production | 5 1/2" | 8 3/4" | .361" | 12,530 | 9,700 | 50:50 POZ | 1.21 |
| Tubing | 2 7/8" | NA | .217" | 1,570 | 3,600 | NA | NA |
| Liners | | | | | | | |

PACKERS

| Kind: | | |
|-------------|--|--|
| Sizes: | | |
| Depths Set: | | |

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API NO. 47- 6 - 01789

OPERATOR WELL NO. MEPCO 12H

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 6,200' TVD/MD. The well will then be horizontally drilled on fluid from KOP to approximately 8,222' TVD / 17,597.43' 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.

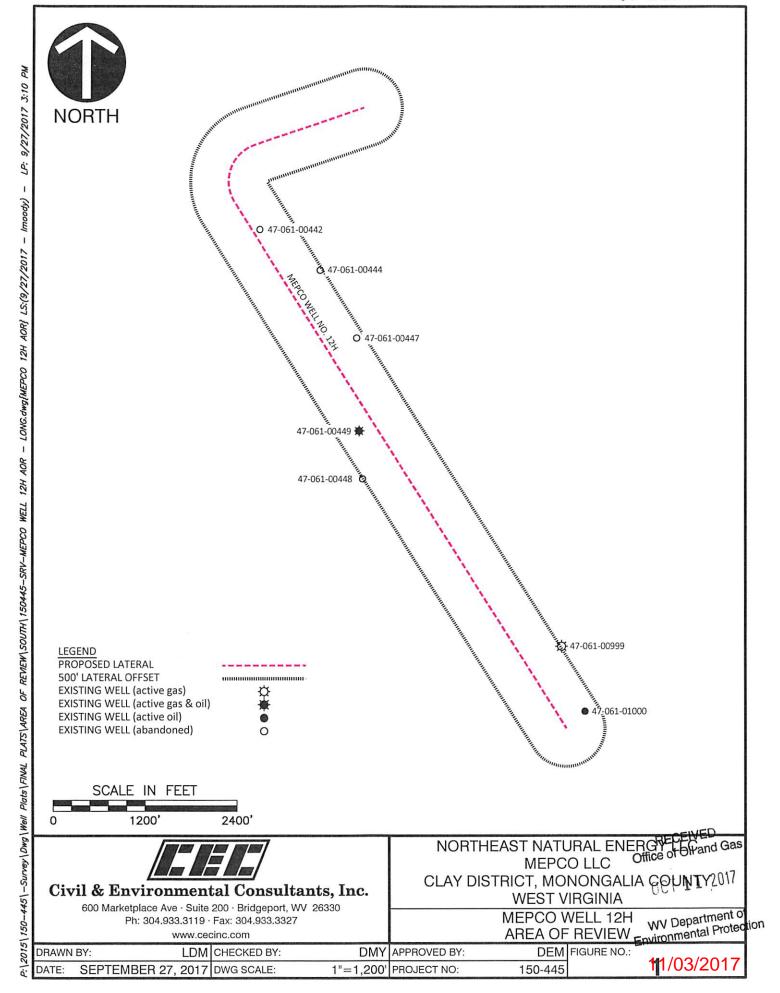
25) Proposed borehole conditioning procedures:

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 ECEIVED 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.

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AREA OF REVIEW MEPCO 12H

| | MILPO 1211 | | | | | | |
|--------------------|---------------|----------------|----------------------------|------------------|---------|---------------------|--------------------------|
| UNIT (API NUMBER) | WELL NAME | WELL NUMBER | OPERATOR | WV DEP STATUS | TD | GROUND ELEVATION | Comments |
| 4706100442 | WRIGHT | 9 | CONSOLIDATION COAL COMPANY | ABANDONED | 2251.5' | 1367.67' | Permit to Plug 7/7/2014 |
| 4706100444 | J.W. WRIGHT | 15A | LEATHERWOOD, INC. | ABANDONED | UNKNOWN | 1275.24' | Permit to Plug 4/23/2014 |
| 4706100447 | NOAH WRIGHT | 3 | CONSOLIDATION COAL COMPANY | ABANDONED | 2454' | UNKNOWN | |
| 4706100449 | J.S.WALKER | 3 | NNE RESOURCES LLC | ACTIVE GAS & OIL | 2262' | 1379' | Permit to Plug 12/8/2016 |
| 4706100448 | J.S.WALKER | 2 | NNE RESOURCES LLC | ABANDONED | 2220' | 1333' | Permit to Plug 12/8/2016 |
| 4706100999 | J. WILDMAN 6 | 6 | NNE RESOURCES LLC | ACTIVE GAS | UNKNOWN | 1170' | |
| 4706101000 | L. WILDMAN 11 | 11 | NNE RESOURCES LLC | ACTIVE OIL | UNKNOWN | 1190' | |

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MEPCO 12H SITE SAFETY PLAN

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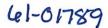
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API Number 47 - 06 - 01789
Operator's Well No. MEPCO 12H

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 |
| VEC DI FACE CEE ATTACHMENT "A" |
| 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. |
| -If oil based, what type? Synthetic, petroleum, etc. SYNTHETIC OIL BASED MUD |
| Additives to be used in drilling medium? ORGANOPHILIC CLAY VISCOSIFIERS, LIME, UNSATURATED FATTY ACIDS, CaCI, BARITE, EMULSIFIERS, MICA LCM, WATER LOSS AGENTS RECEIVED Office of Oil and Gas |
| 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)AUG 16 2017 |
| -Landfill or offsite name/permit number? PLEASE SEE ATTACHMENT "A" 4706101789 WV Department of Environmental Protectic |
| Permittee shall provide written notice to the Office of Oil and Gas of any load of drill cuttings or associated waste rejected at any West Virginia solid waste facility. The notice shall be provided within 24 hours of rejection and the permittee shall also disclose where it was properly disposed. |
| I certify that I understand and agree to the terms and conditions of the GENERAL WATER POLLUTION PERMIT issued on August 1, 2005, by the Office of Oil and Gas of the West Virginia Department of Environmental Protection. I understand that the provisions of the permit are enforceable by law. Violations of any term or condition of the general permit and/or other applicable law or regulation can lead to enforcement action. I certify under penalty of law that I have personally examined and am familiar with the information submitted on this application form and all attachments thereto and that, based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the information is true, accurate, and complete penalties for submitting false information, including the possibility of fine or imprisonment Company Official Signature OFFICIAL SEAL STATE OF WEST VIRGINIA NOTARY PUBLIC Shana Kennedy 230 Husgavarna Drive Morgantown, WY 26508 My Commission Expires Dec. 29, 2021 |
| Subscribed and sworn before me this 10th day of August, 2017 |
| Share Kennedy Notary Public |
| My commission expires Dec. 29,2021 |



Operator's Well No. MEPCO 12H

| NORTHEAST NAT | URAL ENERG | GY LLC | | | | | |
|--|-----------------------|--------------------|-------------------|------------|-------------|--|------|
| Proposed Revegetation Trea | atment: Acres Distu | rbed 12.80 | | Prevegetat | tion pH 5-7 | | |
| Lime 2 | Tons/acre or t | to correct to pH 7 | 7 | | | | |
| Fertilizer type 19- | -19-19 | | | | | | |
| Fertilizer amount | 300 | lbs/a | icre | | | | |
| Mulch_2 | | Tons/acre | e | | | | |
| | | Seed M | <u> Aixtures</u> | | | | |
| Т | emporary | | | I | Permanent | | |
| Seed Type | lbs/acre | | S | seed Type | lbs | /acre | |
| Orchard Grass | 46 | | Orchard | Grass | 4 | 6 | |
| Red Clover | 8 | | Red Clov | er | | 8 | |
| Tetraploid Peren | nial Rye 16 | | Tetraploid | d Peren | nial Rye 1 | 6 | |
| Timothy 15 | Annual Rye | 15 | Timothy | 15 | Annual R | ye 1 | |
| Orawing(s) of road, location provided) Photocopied section of invo Plan Approved by: | lved 7.5' topographic | | cation (unless en | | 6 1 0 1 7 | RECEIVE Office of Oil a AUG 1 6 WV Departm Environmental F | 2017 |
| | | | | | | | |
| Title: Tosperto |) Vec | | Date: 8 | 10/20 | 17 | | |

Attachment A to WW-9

Northeast Natural Energy LLC ("NNE") plans to utilize a closed loop process for its drilling of the MEPCO 12H 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 12H 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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WV Department of Environmental Protection **SITE NAME MEPCO 12H**

ADDRESS 579 MEPCO ROAD

FAIRVIEW, WV 26570

COUNTY MONONGALIA

ACCESS ROAD ENTRANCE 39.622110, -80.149169 (NAD 83)

N 4390601.7282, E 572983.9047 (UTM83)

DIRECTIONS TO SITE:

From I-79, take exit 155. Merge onto Chaplin Hill Road/CR-19/24N toward US-19/WV-7/Star City. If traveling from the south, this will be a right off the exit. If traveling from the north, this will be a left off the exit. After approximately 0.8 miles, turn left at light onto US-19/WV-7. Continue on US-19/WV-7 for approximately 1.7 miles. Turn left on WV-7 and continue on route for approximately 5.2 miles, then turn left on Pedlar Run Road for approximately 1.3 miles. Take a slight right onto Stull Hollow Road for approximately 1.5 miles, turn right onto Long Drain Road for approximately 0.6 miles, and take a sharp left onto County Route 29/4 for approximately 0.3 miles. The MEPCO Pad Access Road Entrance will be on the right.

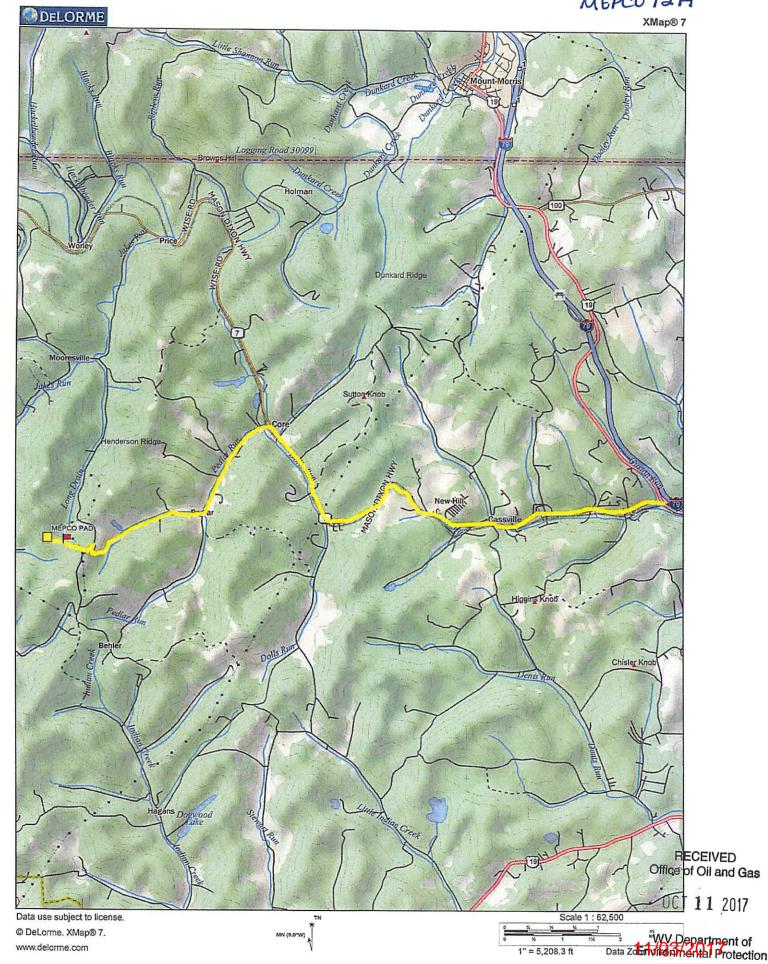
From Blacksville, take WV-7E for approximately 3.8 miles. Turn right onto Jakes Run Road for approximately 1.7 miles, then turn left onto Mooresville Road for approximately 0.3 miles. Turn right onto Long Drain Road for approximately 1.5 miles, take a slight right onto County Route 29/4 for approximately 0.3 miles. The MEPCO Pad Access Road Entrance will be on the right.

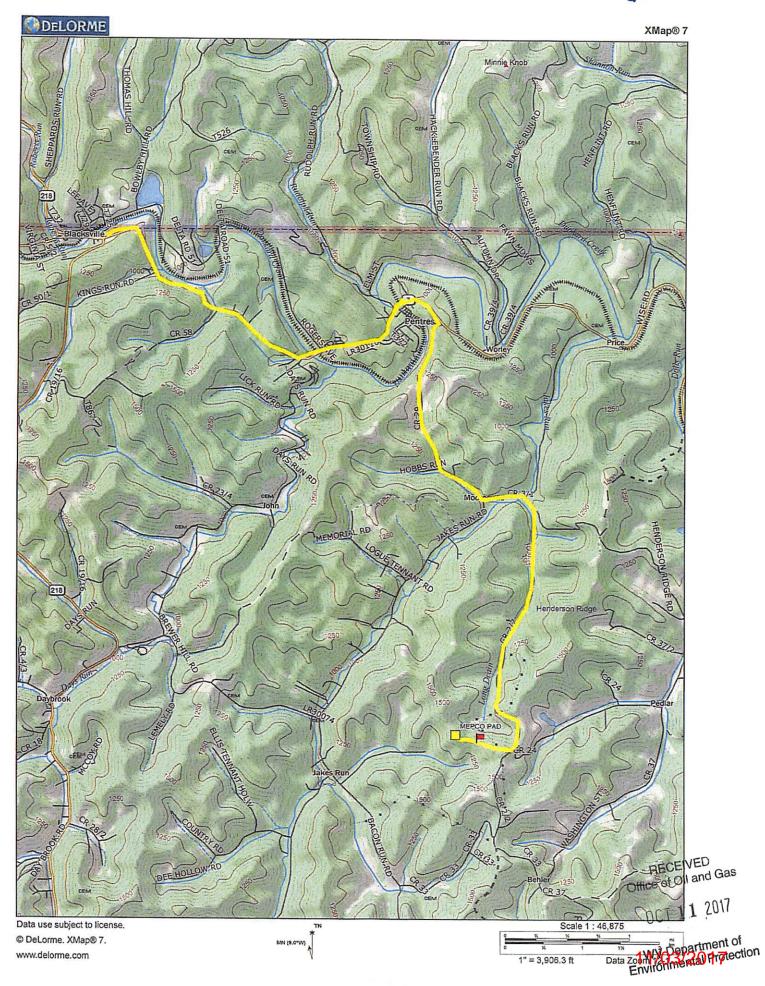
*See Attached Maps

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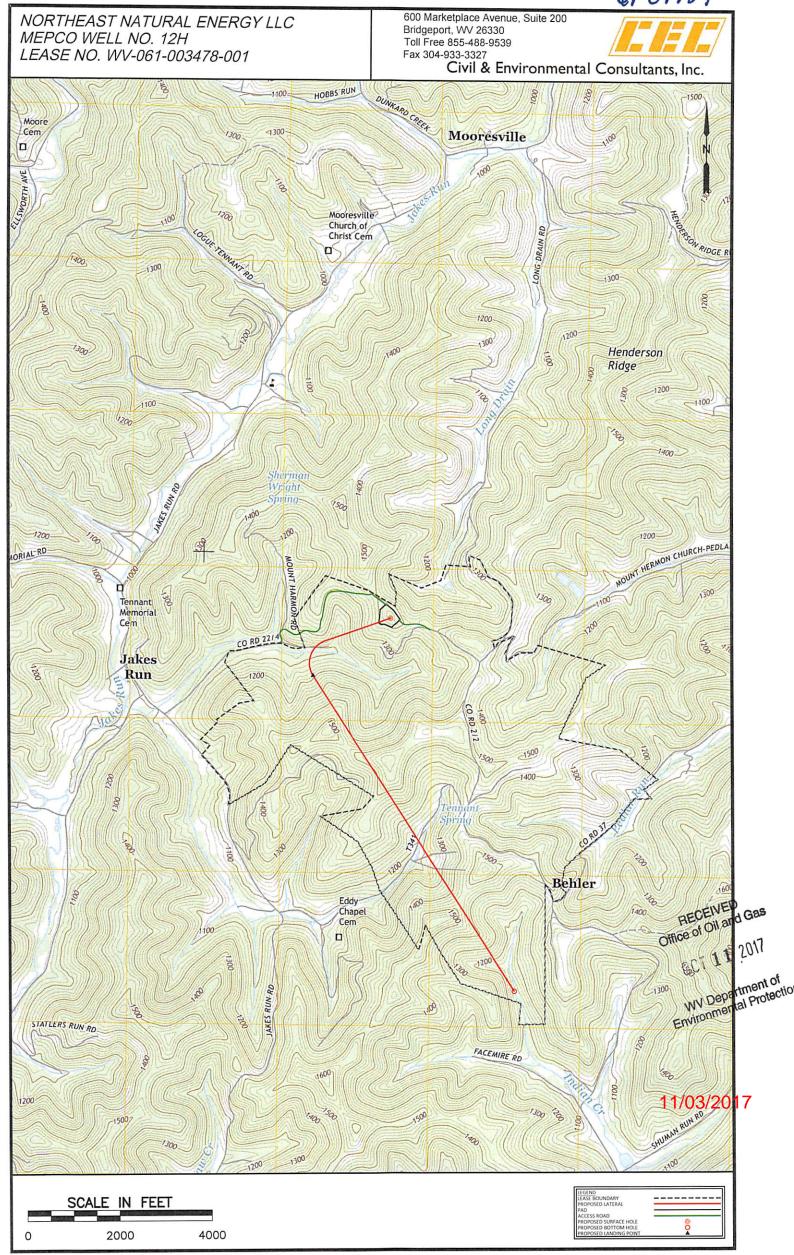
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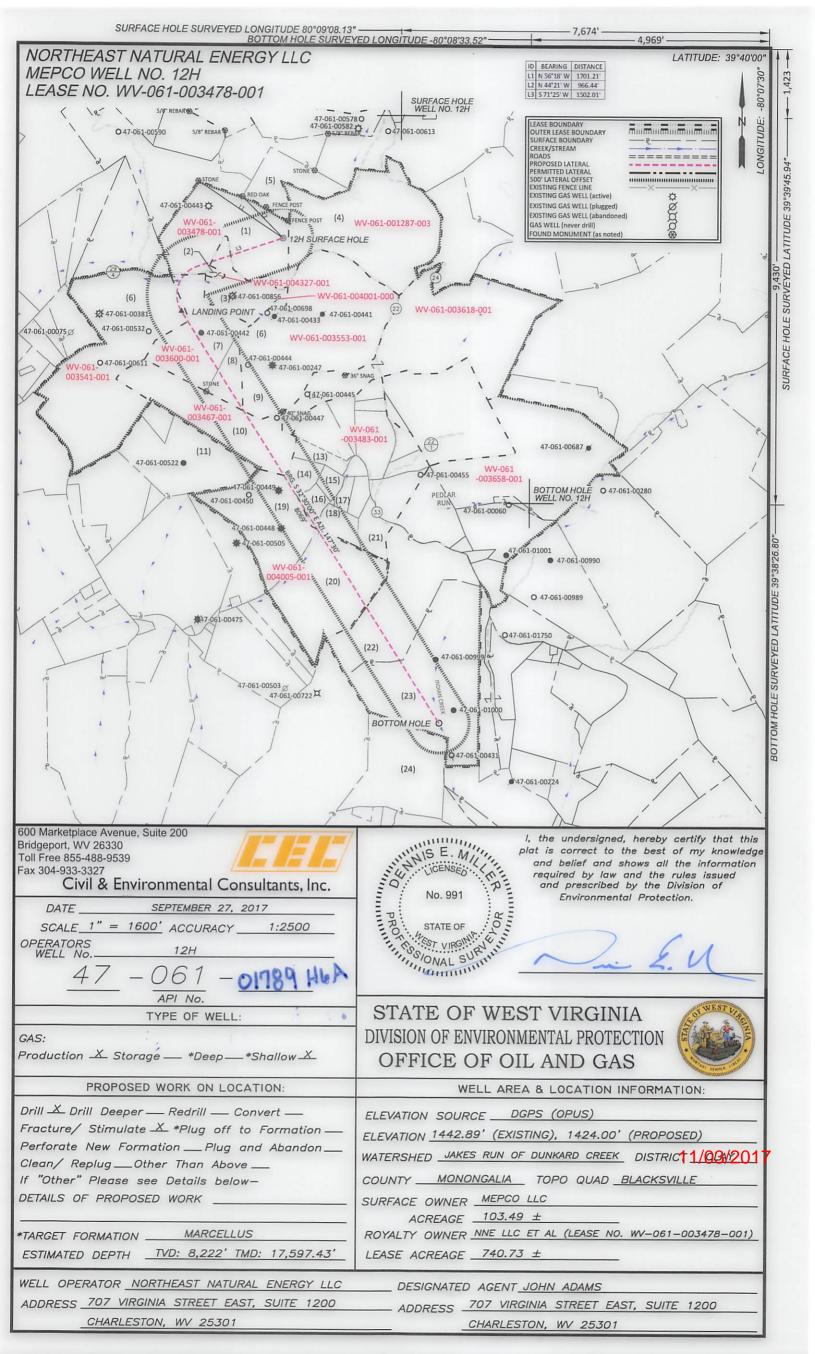
41-01789 MEPCO 12H





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SURFACE HOLE SURVEYED LONGITUDE 80°09'08.13" — 14 BOTTOM HOLE SURVEYED LONGITUDE -80°08'33.52" — NORTHEAST NATURAL ENERGY LLC MEPCO WELL NO. 12H LEASE NO. WV-061-003478-001

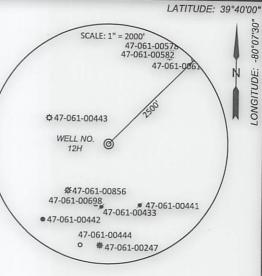
TOP HOLE (MAD 83)
N) 42478.72
E) 1784877.80
LAT.) 39°39'45.94"
LONG, 80°99'08.13°
DEC. LAT.) 39.662762
DEC. LONG.) -80.152259
TOP HOLE (MAD 27)
N) 424141.64
E) 1816314.63
LAT.) 39°39'45.66"
LONG, 80°09'08.88"
DEC. LAT.) 39.66262
DEC. LAT.) 39.66262
DEC. LONG.) -80.158422

BOTTOM HOLE (NAD 83) N) 416151.95 E) 1787527.35 LAT.) 39"38"26.80" LONG.) 80"08"33.52" DEC. LAT.) 39.640778 DEC. LONG.) -80.142644

| 14 18 13 1A | 16114. 818964. 89°38'20 80°08'3 T.) 39.6 | 38 5.51" 34.26" | |
|----------------------|--|-----------------------|--|
| TN | И-PAR | AC. ± | |
| | 48.3 | 103.49 | |
| - | 47 | 0.85 | |
| - | 46 | 21.9 | |
| - | 54 | 84.14 | |
| Ţ | 57 | 10.07 | |

TOP HOLE (UTM NAD 83) N 4390671.59 E) 572718.13 LANDING POINT (UTM NAD 83) N) 4390290.90 E) 572210.67 BOTTOM HOLE (UTM NAD 83) N) 4388239.53 E) 573566.23

SURFACE HOLE WELL NO. 12H

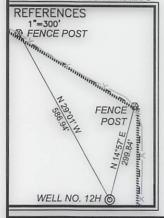


SURFACE HOLE SURVEYED LATITUDE 39°39'45.94"

BOTTOM HOLE WELL NO. 12H

1 MEPCO LLC
2 DOWNEY HAROLD FOX EST
3 DOWNEY HAROLD FOX EST 4 CONSOL MINING COMPANY LLC 5 CONSOL MINING COMPANY LLC 6 A. KEITH MICHAEL, ET AL 4 - # - 52 19:57 4 - # - P/O 48 206.00 4 - # - 45 35.53 4 - # - 44 8.20 7 A. KEITH MICHAEL, ET AL
8 A. KEITH MICHAEL, ET AL
9 A. KEITH MICHAEL, ET AL
10 A. KEITH MICHAEL, ET AL 4 - # - 45 35.53 4 - # - 44 8.20 4 - # - 43 45.00 4 - # - 41 40.23 4 - # - 72.8 16.06 4 - # - 72.8 16.06 4 - # - 72.3 3.72 4 - # - 72.4 38.5 4 - # - 72.2 4.85 4 - # - 72.6 2.78 4 - # - 72.6 1.169 4 - # - 72.7 11.69 4 - # - 72.6 1.169 4 - # - 72.7 11.69 4 - # - 72.7 11.69 4 - # - 39 48.00 4 - # - 39 48.00 11 DAVID W. FRAZIER
12 JOE CLARK STATLER 13 ARTHUR LUZADER 14 KENNETH & GENEVA YOST 15 JESSE & HELEN LEMASTER 16 KENNETH & GENEVA YOST 17 WADESTOWN VOLUNTEER FIRE DEPT. 18 KENNETH & GENEVA YOST 19 DAVID P. WALKER, ET AL 20 GEORGE H. RUCKLE 4 - # - 4 - 4 - # -19 48.00 72 5.22 21 GEORGE H. RUCKLE 23 MARK & BETTY EDUT, ET AL 24 KEVIN A. & CARRIE L. SMITH

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



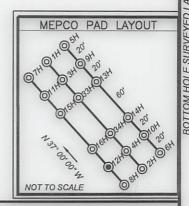
NOTES ON SURVEY

- 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.

- 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.

SEPTEMBER 27, 2017 SCALE_1" = 1600' ACCURACY_

12H API No.

TYPE OF WELL

Production X Storage — *Deep — *Shallow X

PROPOSED WORK ON LOCATION:

Drill X Drill Deeper - Redrill - Convert -Fracture/ Stimulate X *Plug off to Formation Perforate New Formation ___ Plug and Abandon_ Clean/ Replug __Other Than Above. If "Other" Please see Details below-DETAILS OF PROPOSED WORK

MARCELLUS *TARGET FORMATION _ ESTIMATED DEPTH __TVD: 8,222' TMD: 17,597.43'



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

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



WELL AREA & LOCATION INFORMATION

ELEVATION SOURCE ___ DGPS (OPUS) ELEVATION 1442.89' (EXISTING), 1424.00' (PROPOSED)

WATERSHED JAKES RUN OF DUNKARD CREEK DISTRICT1/034201

COUNTY _ MONONGALIA TOPO QUAD BLACKSVILLE

SURFACE OWNER MEPCO LLC

ACREAGE 103.49 ± ROYALTY OWNER NNE LLC ET AL (LEASE NO. WV-061-003478-001)

LEASE ACREAGE 740.73 ±

CHARLESTON, WV 25301

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

CHARLESTON, WV 25301

ADDRESS 707 VIRGINIA STREET EAST, SUITE 1200

DESIGNATED AGENT JOHN ADAMS

WW-6A1 (5/13)

| PCO 12H |
|---------|
| |

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

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

- (1) the tract of land is the same tract described in this Application, partly or wholly depicted in the accompanying plat, and described in the Construction and Reclamation Plan;
- (2) the parties and recordation data (if recorded) for lease(s) or other continuing contract(s) by which the Applicant claims the right to extract, produce or market the oil or gas are as follows:

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

*Please See Attachment

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

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

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

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

> Well Operator: Northeast Natural Energy LLC By: Hollie M. Medley RECEIVED Its: Regulatory Manager Office of Oil and Gas

> > Page 1 of <u>7</u>



WW-6A1

Operator's Well No.

MEPCO 12H

| NNE Lease No. | Grantor, Lessor, etc. | Grantee, Lessee, etc. | Royalty | Book/Page |
|-------------------|--|------------------------------|------------------|--------------|
| WV-061-003478-001 | GARY G LORING | NORTHEAST NATURAL ENERGY LLC | DEED | 1521/99 |
| WV-061-003600-001 | GARY G LORING | NORTHEAST NATURAL ENERGY LLC | DEED | 1550/343 |
| WV-061-004327-001 | REED ENERGY SERVICES LLC | NORTHEAST NATURAL ENERGY LLC | DEED | 1577/831 |
| WV-061-004001-000 | JOHN W WRIGHT | *SOUTH PENN OIL CO | 0.125 OR GREATER | 39/202 |
| WV-061-004002-000 | NIMROD TENNANT AND NANCY TENNANT | *SOUTH PENN OIL CO | 0.125 OR GREATER | 39/361 |
| WV-061-003541-001 | GARY G LORING | NORTHEAST NATURAL ENERGY LLC | DEED | 1548/750 |
| WV-061-004001-000 | JOHN W AND AMANDA WRIGHT | *SOUTH PENN OIL CO | 0.125 OR GREATER | 39/202 |
| WV-061-003553-001 | GARY G LORING | NORTHEAST NATURAL ENERGY LLC | DEED | 1529/705 |
| WV-061-004327-001 | REED ENERGY SERVICES LLC | NORTHEAST NATURAL ENERGY LLC | DEED | 1577/831 |
| WV-061-004001-000 | JOHN W AND AMANDA WRIGHT | *SOUTH PENN OIL CO | 0.125 OR GREATER | 39/202 |
| WV-061-004001-000 | JOHN W WRIGHT AND AMANDA WRIGHT | *SOUTH PENN OIL CO | 0.125 OR GREATER | 39/202 |
| WV-061-004327-001 | REED ENERGY SERVICES LLC | NORTHEAST NATURAL ENERGY LLC | DEED | 1577/831 |
| WV-061-001287-003 | ASHCRAFT, RICKY LYNN | *CHESAPEAKE APPALACHIA LLC | 0.125 OR GREATER | 1370/313 |
| WV-061-001287-004 | ASHCRAFT, CHARLES FRANCIS | *CHESAPEAKE APPALACHIA LLC | 0.125 OR GREATER | 1371/437 |
| WV-061-001291-001 | CRANE, SHIRLEY MARIE ASHCRAFT | *CHESAPEAKE APPALACHIA LLC | 0.125 OR GREATER | 1370/316 |
| WV-061-001291-002 | ASHCRAFT, JAMES PATRICK | *CHESAPEAKE APPALACHIA LLC | 0.125 OR GREATER | 1370/319 |
| WV-061-001291-003 | STATLER, DORIS PAULINE | *CHESAPEAKE APPALACHIA LLC | 0.125 OR GREATER | 1485/760 |
| WV-061-001291-004 | ASHCRAFT, JOHN RICHARD | *CHESAPEAKE APPALACHIA LLC | 0.125 OR GREATER | 1488/417 |
| WV-061-001291-005 | THE HENRIETTA HANULA TRUST | *CHESAPEAKE APPALACHIA LLC | 0.125 OR GREATER | 1510/387 |
| WV-061-001291-014 | VARNER, JOY | *CHESAPEAKE APPALACHIA LLC | 0.125 OR GREATER | 1485/771 |
| WV-061-001291-015 | KETCHEM, JOYCE | *CHESAPEAKE APPALACHIA LLC | 0.125 OR GREATER | 1487/371 |
| WV-061-001291-016 | KING, CHRISTINA J. | *CHESAPEAKE APPALACHIA LLC | 0.125 OR GREATER | 1487/372 |
| WV-061-001291-018 | BANE, JANET S. | NORTHEAST NATURAL ENERGY LLC | 0.125 OR GREATER | 1510/244 |
| WV-061-001291-019 | TENNANT, HARRY R. | *CHESAPEAKE APPALACHIA LLC | 0.125 OR GREATER | 1485/175 |
| WV-061-004001-000 | WRIGHT, JOHN W. | *SOUTH PENN OIL CO | 0.125 OR GREATER | 39/202 |
| WV-061-003600-001 | GARY G LORING | NORTHEAST NATURAL ENERGY LLC | DEED | 1550/343 |
| WV-061-004001-000 | JOHN W AND AMANDA WRIGHT | *SOUTH PENN OIL CO | 0.125 OR GREATER | 39/202 |
| WV-061-003467-001 | MARILYN DARLENE JOSHI AND TULASI R JOSHI | NORTHEAST NATURAL ENERGY LLC | DEED | 1516/564 |
| WV-061-004003-000 | NOAH WRIGHT | *JW SCOTT | 0.125 OR GREATER | 25/443 |
| WV-061-004327-001 | REED ENERGY SERVICES LLC | NORTHEAST NATURAL ENERGY LLC | DEED | 1577/831 |
| WV-061-002837-001 | NANCY ARLENE PRICE | *CHESAPEAKE APPALACHIA LLC | 0.125 OR GREATER | 1424/777 |
| WV-061-003618-001 | SHUMAN, INC | NORTHEAST NATURAL ENERGY LLC | 0.125 OR GREATER | 1539/411 |
| WV-061-003554-001 | JUNE C MYERS | NORTHEAST NATURAL ENERGY LLC | 0.125 OR GREATER | 1523/795 |
| WV-061-003554-002 | RUTH J MONTILOR | NORTHEAST NATURAL ENERGY LLC | 0.125 OR GREATER | 1535/39 |
| WV-061-003554-003 | ALEXANDRA D DIERINGER | NORTHEAST NATURAL ENERGY LLC | 0.125 OR GREATER | 5133/82 |
| WV-061-003554-004 | HAPPY ENDINGS LLC | NORTHEAST NATURAL ENERGY LLC | 0.125 OR GREATER | 1534/116 |
| WV-061-003554-005 | JANET D SHIPLEY | NORTHEAST NATURAL ENERGY LLC | 0.125 OR GREATER | 1591/641 |
| WV-061-003483-001 | HERV OIL LLC | *EM1 ENERGY INC | 0.125 OR GREATER | 1501/278 |
| WV-061-003483-002 | ANDREW SOLOMON | *EM1 ENERGY INC | 0.125 OR GREATER | 1501/740 |
| WV-061-003554-001 | JUNE C MYERS | NORTHEAST NATURAL ENERGY LLC | 0.125 OR GREATER | 1523/795 |
| WV-061-003554-002 | RUTH J MONTILOR | NORTHEAST NATURAL ENERGY LLC | 0.125 OR GREATER | 1535/39 |
| WV-061-003554-003 | ALEXANDRA D DIERINGER | NORTHEAST NATURAL ENERGY LLC | 0.125 OR GREATER | 5133/82 |
| WV-061-003554-004 | HAPPY ENDINGS LLC | NORTHEAST NATURAL ENERGY LLC | 0.125 OR GREATER | 1534/116 |
| WV-061-003554-005 | JANET D SHIPLEY | NORTHEAST NATURAL ENERGY LLC | 0.125 OR GREATER | 1591/641 |
| WV-061-004005-000 | JAMES S WALKER AND NANCY WALKER | NORTHEAST NATURAL ENERGY LLC | 0.125 OR GREATER | 26/273 |
| WV-061-004005-001 | KEVIN K CHUMNEY AND JANET L CHUMNEY | NORTHEAST NATURAL ENERGY LLC | DEED | 1581/250 |
| WV-061-004005-002 | DONNA JEAN SHELTON AND THOMAS C SHELTON | NORTHEAST NATURAL ENERGY LLC | 0.125 OR GREATER | 1591/700 Off |
| WV-061-004005-003 | JANET DUNN AND LAWRENCE DUNN | NORTHEAST NATURAL ENERGY LLC | 0.125 OR GREATER | 1598/595 |
| WV-061-004314-001 | REED ENERGY SERVICES LLC | NORTHEAST NATURAL ENERGY LLC | DEED | 1580/200 |
| | · | 1 | 1 | 1 |

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OCT 11 2017



WW-6A1

Operator's Well No.

MEPCO 12H

| NNE Lease No. | Grantor, Lessor, etc. | Grantee, Lessee, etc. | Royalty | Book/Page |
|-------------------|---|------------------------------|------------------|-----------|
| WV-061-004005-000 | JAMES S WALKER AND NANCY WALKER | NORTHEAST NATURAL ENERGY LLC | 0.125 OR GREATER | 26/273 |
| WV-061-004005-001 | KEVIN K CHUMNEY AND JANET L CHUMNEY | NORTHEAST NATURAL ENERGY LLC | DEED | 1581/250 |
| WV-061-004005-002 | DONNA JEAN SHELTON AND THOMAS C SHELTON | NORTHEAST NATURAL ENERGY LLC | 0.125 OR GREATER | 1591/700 |
| WV-061-004005-003 | JANET DUNN AND LAWRENCE DUNN | NORTHEAST NATURAL ENERGY LLC | 0.125 OR GREATER | 1598/595 |
| WV-061-004314-001 | REED ENERGY SERVICES LLC | NORTHEAST NATURAL ENERGY LLC | DEED | 1580/200 |
| WV-061-004017-000 | JARRETT WILDMAN, ET AL | *JW SCOTT | 0.125 OR GREATER | 27/145 |
| WV-061-003658-001 | MICHAEL L AND TERRY STRAIGHT | NORTHEAST NATURAL ENERGY LLC | DEED | 1542/110 |
| WV-061-003658-002 | SHARON L BEST | NORTHEAST NATURAL ENERGY LLC | DEED | 1541/421 |
| WV-061-003658-003 | DOUGLAS J KENNETT | NORTHEAST NATURAL ENERGY LLC | DEED | 1547/797 |
| WV-061-003658-004 | DAVID L AND ELIZABETH CAROL STRAIGHT | NORTHEAST NATURAL ENERGY LLC | DEED | 1556/552 |
| WV-061-004020-000 | MARK V AND BETTY A EDDY | NORTHEAST NATURAL ENERGY LLC | DEED | 1505/572 |

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OCT 11 2017



Chesapeake Appalachia, LLC.

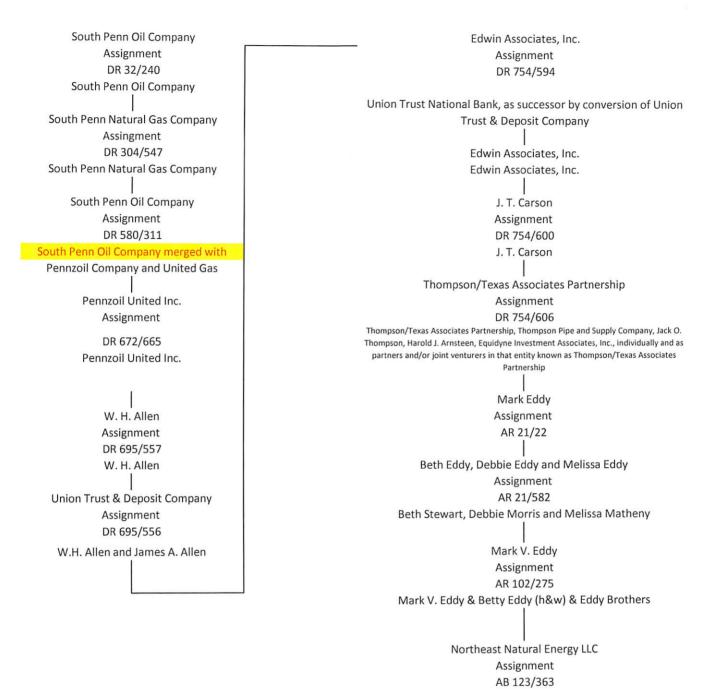
Northeast Natural Energy Assignment

BK 120/769

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Office of Oil and Gas

OCT 11 2017

WV Department of Environing Protection



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Office of Oil and Gas

OCT 11 2017

WV Department of Environmental Projection

EM1 Energy Inc.

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

> Northeast Natural Energy LLC

> > RECEIVED Gas
> > Office of Oil and Gas

WV Department of Environment 2017

J. W. Scott Lease Edwin Associates, Inc. DR 27/145 Assignment J. W. Scott DR 754/594 William Munhall and George P. Hukill Union Trust National Bank, as successor by conversion of Union Assignment Trust & Deposit Company DR 28/447 William Munhall and George P. Hukill and J. Edwin Associates, Inc. W, Scott, doing business as Mountain State Assignment Oil Company DR 754/598 Edwin Associates, Inc. South Penn Oil Company Assignment J. T. Carson Assignment DR 32/240 South Penn Oil Company DR 754/600 J. T. Carson South Penn Natural Gas Company Thompson/Texas Associates Partnership Assingment DR 304/547 Assignment South Penn Natural Gas Company DR 754/606 Thompson/Texas Associates Partnership, Thompson Pipe and Supply Company, Jack O. Thompson, Harold J. Arnsteen, Equidyne Investment Associates, Inc., individually and as partners and/or joint venturers in that entity known as Thompson/Texas Associates Partnership South Penn Oil Company Mark Eddy Assignment DR 580/311 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 South Penn Oil Company merged with partners and/or joint venturers in that entity known as Thompson/Texas Associates Partnership Pennzoil Company on July 31, 1963 Pennzoil Company and United Gas Corporation Beth Eddy, Debbie Eddy and Melissa Eddy Pennzoil United Inc. Assignment AR 21/582 Assignment Beth Stewart, Debbie Morris and Melissa Matheny DR 672/665 Pennzoil United Inc. Mark V. Eddy Assignment W. H. Allen AR 102/275 Assignment Mark V. Eddy & Betty Eddy (h&w) & Eddy Brothers DR 695/557 W. H. Allen RECEIVED Office of Oil and Gas Union Trust & Deposit Company Northeast Natural Energy LLC Assignment Assignment DR 695/556 AB 123/363 OCT 11 2017 W. H. Allen and James A. Allen

WW-60 (7-01)

State of West Virginia

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

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

State County Permit No.

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

AFFIDAVIT

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

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

RECEIVED Office of Oil and Gas

AUG 1 6 2017

WV Department of Environmental Protection



July 14, 2017

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

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

Dear Permit Reviewer:

Please be advised that Northeast Natural Energy LLC has the right to drill, extract and produce the minerals beneath the roads identified as Horace Thorn Road (State Route 33), Noah Wright Road (State Route 22/1), Long Drain Road (State Route 22), Mt. Hermon Road (State Route 29/4) and Pedlar Run (State Route 37) on the enclosed 6901789 survey plat.

Sincerely,

Jeannie Morgan Johnson, CPL Vice President - Land Operations

Enclosure

RECEIVED Office of Oil and Gas

AUG 1 6 2017

WV Department of Environmental Protection

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

| Date of Notice Certification: 08/14/2017 | | AF | API No. 47- 061 - 01789 | | | |
|--|------------------------------|---|---------------------------------------|-----------------------|-----------------------------|--|
| | | Op | perator's | Well No. MEP | CO 12H | |
| | | W | ell Pad N | ame: MEPCO | | |
| Notice has b | | | | | | |
| Pursuant to the provisions in West Virginia Code § 22-6A, the Operator has provided the required parties with the Notice Forms listed | | | | | | |
| | tract of land as follows: | - | | | | |
| State: | West Virginia | | sting: | 572718.13 | | |
| County: | Monongalia | No | orthing: | 4390671.59 | | |
| District: | Clay | Public Road Access: | | State Route 29/4 | | |
| Quadrangle: | Blacksville | Generally used farm | name: | MEPCO LLC | | |
| Watershed: | Jakes Run of Dunkard Creek | | | | | |
| Pursuant to West Virginia Code § 22-6A-7(b), every permit application filed under this section shall be on a form as may be prescribed by the secretary, shall be verified and shall contain the following information: (14) A certification from the operator that (i) it has provided the owners of the surface described in subdivisions (1), (2) and (4), subsection (b), section ten of this article, the information required by subsections (b) and (c), section sixteen of this article; (ii) that the requirement was deemed satisfied as a result of giving the surface owner notice of entry to survey pursuant to subsection (a), section ten of this article six-a; or (iii) the notice requirements of subsection (b), section sixteen of this article were waived in writing by the surface owner; and Pursuant to West Virginia Code § 22-6A-11(b), the applicant shall tender proof of and certify to the secretary that the notice requirements of section ten of this article have been completed by the applicant. | | | | | | |
| Pursuant to West Virginia Code § 22-6A, the Operator has attached proof to this Notice Certification | | | | | | |
| that the Operator has properly served the required parties with the following: | | | | | | |
| | CK ALL THAT APPLY | parties with the following. | | | OOG OFFICE USE ONLY | |
| ☐ 1. NOT | TICE OF SEISMIC ACTIVITY or | ☐ NOTICE NOT REQUIRED SEISMIC ACTIVITY WAS CO | | -control of particles | ☐ RECEIVED/ NOT REQUIRED | |
| ■ 2. NOT | TICE OF ENTRY FOR PLAT SURVI | EY or NO PLAT SURVEY | WAS CO | NDUCTED | RECEIVED | |
| ■ 3. NOT | | ☐ NOTICE NOT REQUIRED NOTICE OF ENTRY FOR PLAWAS CONDUCTED or | | | ☐ RECEIVED/ NOT REQUIRED | |
| | | ☐ WRITTEN WAIVER BY (PLEASE ATTACH) | SURFAC | E OWNER | | |
| ■ 4. NOT | TICE OF PLANNED OPERATION | 470 | | | RECEIVED | |
| ■ 5. PUB | BLIC NOTICE | 6101 | · · · · · · · · · · · · · · · · · · · | | ☐ RECEIVED | |
| ■ 6. NOT | TICE OF APPLICATION | 4706101 | 89 | | ☐ RECEIVED | |
| | | | | | | |

Required Attachments:

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

W Department of Protection English 2017

Notary Public

Certification of Notice is hereby given:

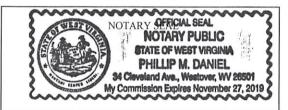
THEREFORE, I Hollie M. Medley, have read and understand the notice requirements within West Virginia Code § 22-6A. I certify that as required under West Virginia Code § 22-6A, I have served the attached copies of the Notice Forms, identified above, to the required parties through personal service, by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

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

 By:
 Hollie M. Medley
 Charleston, WV 25301

 Its:
 Regulatory Manager
 Facsimile:
 304.241.5972

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



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

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.

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AUG 1 6 2017

WV Department of Environmental Protection WW-6A (9-13) API NO. 47- **bbl** - **D1789**OPERATOR WELL NO. MEPCO 12H
Well Pad Name: MEPCO

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

| Notice Time Requirement: notice shall be provided | no later than the filing date of permit application. |
|--|---|
| Date of Notice: 8/4/2017 Date Permit Application Notice of: | Filed: 8/14/2017 |
| | TE OF APPROVAL FOR THE TION OF AN IMPOUNDMENT OR PIT |
| Delivery method pursuant to West Virginia Code § | § 22-6A-10(b) |
| ☐ PERSONAL ☑ REGISTERED ☐ SERVICE MAIL | METHOD OF DELIVERY THAT REQUIRES A RECEIPT OR SIGNATURE CONFIRMATION |
| sediment control plan required by section seven of this as the surface of the tract on which the well is or is propose oil and gas leasehold being developed by the proposed we described in the erosion and sediment control plan submoperator or lessee, in the event the tract of land on which more coal seams; (4) The owners of record of the surface well work, if the surface tract is to be used for the placent impoundment or pit as described in section nine of this a have a water well, spring or water supply source located provide water for consumption by humans or domestic approposed well work activity is to take place. (c)(1) If more subsection (b) of this section hold interests in the lands, the records of the sheriff required to be maintained pursuant provision of this article to the contrary, notice to a lien have code R. § 35-8-5.7.a requires, in part, that the operator water purveyor or surface owner subject to notice and water purveyor or surface o | s a receipt or signature confirmation, copies of the application, the erosion and ricicle, and the well plat to each of the following persons: (1) The owners of record of the belocated; (2) The owners of record of the surface tract or tracts overlying the well work, if the surface tract is to be used for roads or other land disturbance as itted pursuant to subsection (c), section seven of this article; (3) The coal owner, at the well proposed to be drilled is located [sic] is known to be underlain by one or the tracts overlying the oil and gas leasehold being developed by the proposed ment, construction, enlargement, alteration, repair, removal or abandonment of any urticle; (5) Any surface owner or water purveyor who is known to the applicant to within one thousand five hundred feet of the center of the well pad which is used to mimals; and (6) The operator of any natural gas storage field within which the rethan three tenants in common or other co-owners of interests described in the applicant may serve the documents required upon the person described in the to section eight, article one, chapter eleven-a of this code. (2) Notwithstanding any older is not notice to a landowner, unless the lien holder is the landowner. W. Va. shall also provide the Well Site Safety Plan ("WSSP") to the surface owner and any later testing as provided in section 15 of this rule. |
| ☑ SURFACE OWNER(s) Name: Please See Attached | ☐ COAL OWNER OR LESSEE Name: Please See Attached |
| Address: | Address: |
| Name: | COAL OPERATOR |
| Address: | COAL OPERATOR Name: Address: |
| | Address:O |
| SURFACE OWNER(s) (Road and/or Other Disturb | |
| Name: Please See Attached | ☑ SURFACE OWNER OF WATER WELL AND/OR WATER PURVEYOR(s) |
| Address: | NT Disco Ose Absolute |
| Name: | Address: |
| Address: | |
| | OPERATOR OF ANY NATURAL GAS STORAGE FIELD |
| SURFACE OWNER(s) (Impoundments or Pits) Name: Address: | Name: Address: RECEIVED Office of Oil and Gas |
| Address: | *Please attach additional forms if necessary AUG 1 6 2017 |
| | WV Department of Environmental Protection |

WW-6A (8-13)

RECEIVED Office of Oil and Gas

AUG 1 6 201 API NO. 47-666 - 01789

WV Department Well Pad Name: MEPCO

Notice is hereby given:

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

This Notice Shall Include:

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

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

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

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

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

Well Location Restrictions

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

API NO. 47- 061- 017

OPERATOR WELL NO. MEPCO 12H

Well Pad Name: MEPCO

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

Water Well Testing:

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

Water Testing Laboratories:

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

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

W. Va. Code § 22-6A-18 requires that (b) unless rebutted by one of the defenses established in subsection (c) of this section, in any action for contamination or deprivation of a fresh water source or supply within one thousand five hundred feet of the center of the well pad for horizontal well, there is a rebuttable presumption that the drilling and the oil or gas well or either was the proximate cause of the contamination or deprivation of the fresh water source or supply. (c) In order to rebut the presumption of liability established in subsection (b) of this section, the operator must prove by a preponderance of the evidence one of the following defenses: (1) The pollution existed prior to the drilling or alteration activity as determined by a predrilling or prealteration water well test. (2) The landowner or water purveyor refused to allow the operator access to the property to conduct a predrilling or prealteration water well test. (3) The water supply is not within one thousand five hundred feet of the well. (4) The pollution occurred more than six months after completion of drilling or alteration activities. (5) The pollution occurred as the result of some cause other than the drilling or alteration activity. (d) Any operator electing to preserve its defenses under subdivision (1), subsection (c) of this section shall retain the services of an independent certified laboratory to conduct the predrilling or prealteration water well test. A copy of the results of the test shall be submitted to the department and the surface owner or water purveyor in a manner prescribed by the secretary. (e) Any operator shall replace the water supply of an owner of interest in real property who obtains all or part of that owner's supply of water for domestic, agricultural, industrial or other legitimate use from an underground or surface source with a comparable water supply where the secretary determines that the water supply has been affected by contamination, diminution or interruption proximately caused by the oil or gas operation, unless waived in writing by that owner. (f) The secretary may order the operator conducting the oil or gas operation to: (1) Provide an emergency drinking water supply within twenty-four hours; (2) Provide temporary water supply within seventy-two hours; (3) Within thirty days begin activities to establish a permanent water supply or submit a proposal to the secretary outlining the measures and timetables to be used in establishing a permanent supply. The total time in providing a permanent water supply may not exceed two years. If the operator demonstrates that providing a permanent replacement water supply cannot be completed within two years, the secretary may extend the time frame on case-by-case basis; and (4) Pay all reasonable costs incurred by the real property owner in securing a water supply. (g) A person as described in subsection (b) of this section aggrieved under the provisions of subsections (b), (e) or (f) of this section may seek relief in court... (i) Notwithstanding the denial of the operator of responsibility for the damage to the real property owner's water supply or the status of any appeal on determination of liability for the damage to the real property owner's water supply, the operator may not discontinue providing the required water service until authorized to do so by the secretary or a court of competent jurisdiction. 4706101789

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 compensate the Office of Oil and Gas location or construction of the applicant's proposed well work to the Secretary at:

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

AUG 1 6 2017

WV Department of **Environmental Protection**

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

API NO. 47-661 - 01789
OPERATOR WELL NO. MEPCO 12H
Well Pad Name: MEPCO

Time Limits and Methods for Filing Comments.

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

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

Comment Requirements

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

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

Permit Denial or Condition

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

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

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

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

4706101789

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AUG 1 6 2017

WV Department of Environmental Protection

WW-6A (8-13)

API NO. 47- 661 - 0118 OPERATOR WELL NO. MEPCO 12H 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.

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

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

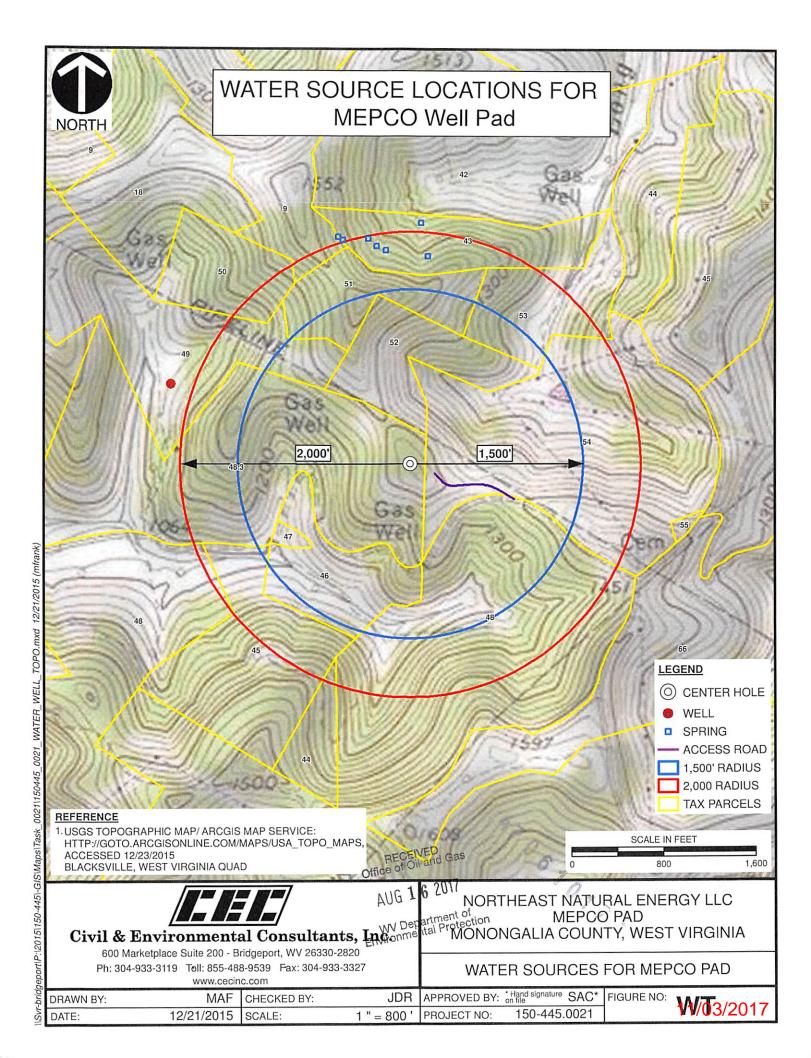
My Commission Expires

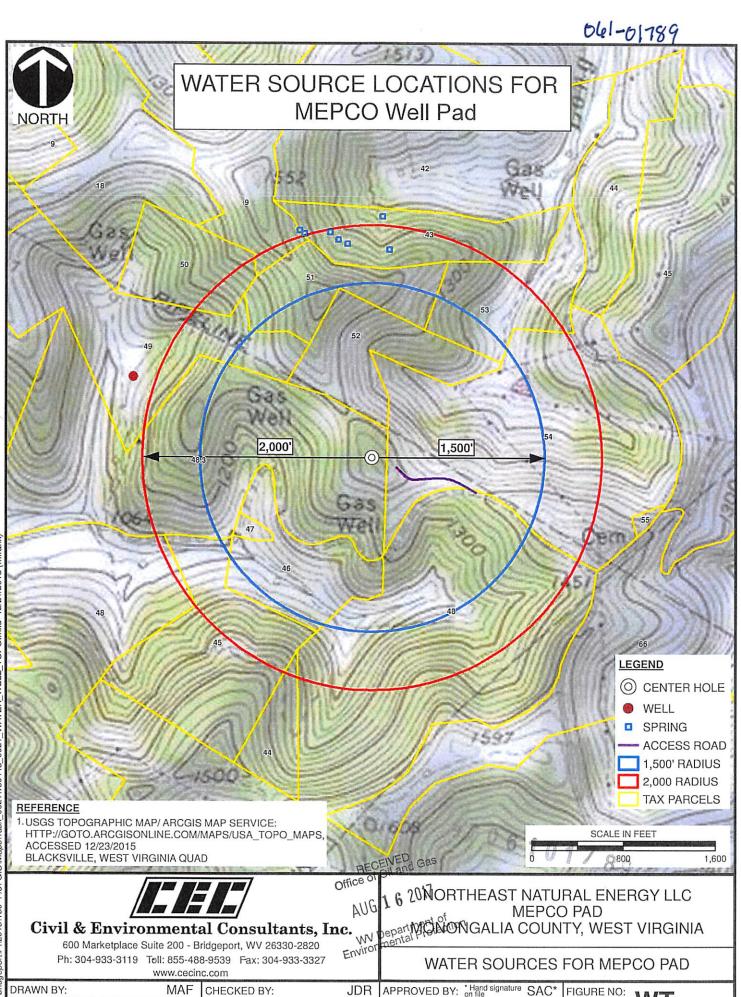
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RECEIVED Office of Oil and Gas

AUG 1 6 2017

WV Department of Environmental Protection





||Svr-bridgeport|P:\2015\150-445\-G\S\Maps\Task_0021\150445_0021_WATER_WELL

DATE:

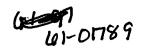
12/21/2015

SCALE:

1 " = 800 '

PROJECT NO:

150-445.0021



WW-6A MEPCO 12H

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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AUG 1 6 2017

WV Department of Environmental Protection 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

4706101783

Office of Oil and Gas

AUG 1 6 2017

WV Department of Environmental Protection

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

470610178-

RECEIVED Office of Oil and Gas

AUG 1 6 2017

WV Department of Environmental Protection

11/03/2017

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 provi | ided at least SEVEN (7) days but no more tha | in FORTY-FIVE (45) days prior to | | |
|--|--|--|---|--|--|
| Date of Notice | e: 10/5/2015 Date of Plan | ned Entry: 10/13/2015 | | | |
| Delivery met | hod pursuant to West Virginia Co | ode § 22-6A-10a | | | |
| PERSON SERVICE | | ☐ METHOD OF DELIVERY THAT RE RECEIPT OR SIGNATURE CONFIR | | | |
| on to the surfabut no more the beneath such owner of mine and Sediment Secretary, whenable the sur | ace tract to conduct any plat surveys nan forty-five days prior to such entitract that has filed a declaration purserals underlying such tract in the councountrol Manual and the statutes and ich statement shall include contact is face owner to obtain copies from the | rior to filing a permit application, the operator required pursuant to this article. Such notice try to: (1) The surface owner of such tract; (2) quant to section thirty-six, article six, chapter that tax records. The notice shall include a standard rules related to oil and gas exploration and performation, including the address for a web passes secretary. | shall be provided at least seven days to any owner or lessee of coal seams wenty-two of this code; and (3) any atement that copies of the state Erosion production may be obtained from the | | |
| | eby provided to: | _ | | | |
| SURFAC | E OWNER(s) | COAL OWNER OR LE | COAL OWNER OR LESSEE | | |
| Name: SEE AT | FACHMENT | Name: SEE ATTACHM ENT | Name: SEE ATTACHMENT | | |
| Address: | | | Name: SEE ATTACHMENT Address: | | |
| Name: | | | | | |
| Address: | | ■ MINERAL OWNER(s) | | | |
| | | Name: SEE ATTACHMENT | 06101/89 | | |
| Name: | | Address: | V V | | |
| Address: | | | | | |
| | | *please attach additional forms if ne | *please attach additional forms if necessary | | |
| Notice is he | reby given: | | | | |
| Pursuant to W | est Virginia Code § 22-6A-10(a), no | otice is hereby given that the undersigned wel | l operator is planning entry to conduct | | |
| | on the tract of land as follows: | | | | |
| State: | West Virginia | | 4390688.4; 572705 (UTM NAD 83) | | |
| County: District: | Monongalia | XX7 . 1 1 | State Route 29/4 | | |
| | Clay Blacksville | Watershed: Generally used farm name: | Dunkard Creek | | |
| Quadrangie. | Blacksville | Generally used farm name: | MEPCO | | |
| may be obtain Charleston, W | ed from the Secretary, at the WV D V 25304 (304-926-0450). Copies | Manual and the statutes and rules related to o epartment of Environmental Protection headq of such documents or additional information rwv.gov/oil-and-gas/pages/default.aspx. | uarters, located at 601 57th Street, SE, | | |

Notice is hereby given by:

Well Operator: Northeast Natural Energy LLC

Telephone: 304-212-0422

Email: hmedley@nne-llc.com

Northeast Natural Energy LLC

Address: 707 Virginia Street E., Suite 1200

Charleston, WV 25301

Facsimile: 304-241-5972

Oil and Gas Privacy Notice:

W Department of Environmental Protection

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 deprivacyofficer@wv.gov.

WW-6A3 ATTACHMENT

MEPCO

Surface Owner(s)

Consolidation Coal Company

Attn: Melissa Wilson

Land Agent Depositions - Rentals

CNX Center

1000 Consol Energy Drive Canonsburg, PA 15317

MEPCO, LLC

Attn: Will Oliver

103 Corporate Drive, Suite 102 Morgantown, WV 26501

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

Consolidation Coal Company

Attn: Melissa Wilson

Land Agent Depositions - Rentals

CNX Center

1000 Consol Energy Drive Canonsburg, PA 15317

MEPCO, LLC

Attn: Will Oliver

103 Corporate Drive, Suite 102

Morgantown, WV 26501

Coal Owner or Lessee

Consol Mining Company, LLC

Attn: Analyst, Engineering and Operations Support – Coal

CNX Center

1000 Consol Energy Drive

Canonsburg, PA 15317

Murray Energy Corp.

Attn: Alex P. O'Neill

Coal - Oil and Gas Relations Manager

46226 National Road

St. Clairsville, OH 43950

6706101789

RECEIVED Office of Oil and Gas

AUG 1 6 2017

WV Department of Environmental Protection

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

4706101789

Office of Oil and Gas

WV Department of Environmental Protection

11/03/2017

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 R | equirement: Notice shall be provided at | least TFN (10) days prior to filing a | nermit application |
|---|--|---|---|
| Date of Notice: | | nit Application Filed: 08/14/2017 | |
| Delivery metho | od pursuant to West Virginia Code § 22 | 2-6A-16(b) | |
| ☐ HAND | CERTIFIED MAIL | | |
| DELIVER | | TESTED | |
| DELIVER | Y RETURN RECEIPT REQU | DESTED | |
| receipt requeste drilling a horize of this subsection subsection may | ed or hand delivery, give the surface owner ontal well: <i>Provided</i> , That notice given points of the date the notice was provided to | er notice of its intent to enter upon the pursuant to subsection (a), section to the surface owner: <i>Provided, hower.</i> The notice, if required, shall include. | , an operator shall, by certified mail return he surface owner's land for the purpose of en of this article satisfies the requirements wever, That the notice requirements of this lude the name, address, telephone number, or's authorized representative. |
| | by provided to the SURFACE OW | | - 1 |
| | ATION COAL COMPANY | Name: MEPCO LLC | V |
| | ENTER, 1000 CONSOL ENERGY DRIVE | Address: 103 CORPORATE | |
| CANON | SBURG, PA 15317 | MORGANTOWN, V | WV 26501 |
| State: V County: M District: C Quadrangle: E | er's land for the purpose of drilling a horivest virginia MONONGALIA CLAY BLACKSVILLE MAKES RUN OF DUNKARD CREEK | UTM NAD 83 Easting: Northing: Public Road Access: Generally used farm name: | Dillows: 572718.13 4390671.59 CR 29/4 MEPCO |
| facsimile numb related to horiz located at 601 5 | est Virginia Code § 22-6A-16(b), this reper and electronic mail address of the open and drilling may be obtained from the 17 th Street, SE, Charleston, WV 25304 (30) | perator and the operator's authorize Secretary, at the WV Department of | ress, telephone number, and if available, ed representative. Additional information of Environmental Protection headquarters, ep.wv.gov/oil-and-gas/pages/default.aspx. |
| Notice is here | | | |
| Well Operator: | | Authorized Representative: | |
| Address: | 707 Virginia Street East, Suite 1200 | Address: | 48 Donley Street, Suite 601 |
| | Charleston, WV 25301 | | Morgantown, WV 26501 |
| Telephone: | 304-414-7060 | Telephone: | 304-212-0422 |
| Email: | hmedley@nne-llc.com | Email: | hmedley@nne-llc.com |
| Facsimile: | 304-414-7061 | Facsimile: | 304-241-5972 |
| | | | |

Oil and Gas Privacy Notice:

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

AUG 1 6 2017 11/03/2017 W Departmental Protection Environmental Protection WW-6A5 (1/12)

Operator Well No. MEPCO 12H

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

| | | equirement: notice shall be provided no late 108/04/2017 Date Permit Appli | | | application. |
|---|---|---|--|--|---|
| Delive | ry meth | od pursuant to West Virginia Code § 22-6 | A-16(c) | | |
| | | | AND ELIVERY | | |
| return the pla require drilling damag | receipt reanned op ed to be possible of a house to the enotices | Va. Code § 22-6A-16(c), no later than the equested or hand delivery, give the surface ceration. The notice required by this subservovided by subsection (b), section ten of this rizontal well; and (3) A proposed surface surface affected by oil and gas operations to required by this section shall be given to the | owner whose land ection shall inclus s article to a surfause and compens to the extent the da | I will be used for de: (1) A copy ace owner whos sation agreemen amages are comp | or the drilling of a horizontal well notice of of this code section; (2) The information the land will be used in conjunction with the at containing an offer of compensation for pensable under article six-b of this chapter. |
| (at the Name: | address l Consolidation | y provided to the SURFACE OWNER(s) isted in the records of the sheriff at the time on Coal Company inter, 1000 Consol Energy Drive urg, PA 15317 | of notice): Name: | MEPCO LLC S: 130 CORPORATE MORGANTOWN, | |
| Pursua operati | on on th | st Virginia Code § 22-6A-16(c), notice is he e surface owner's land for the purpose of dr | | l well on the tra | |
| State: | _ | Vest Virginia | UTM NAD 8 | 3 Easting: | 572718.13 |
| County Distric | _ | Monongalia Clay | Public Road | Northing: | 4390671.59 County Route 29/4 |
| Quadra | _ | Blacksville | | ed farm name: | MEPCO |
| Waters | _ | akes Run of Dunkard Creek | continuity use | | |
| Pursua to be p horizon surface inform headqu | nt to We provided ntal well; affected ation rela | all Include: st Virginia Code § 22-6A-16(c), this notice by W. Va. Code § 22-6A-10(b) to a surfa and (3) A proposed surface use and compet by oil and gas operations to the extent the ated to horizontal drilling may be obtained becated at 601 57 th Street, SE, Charlesto alt.aspx. | ensation agreement e damages are coll from the Secret | e land will be un nt containing an empensable und ary, at the WV | ased in conjunction with the drilling of a offer of compensation for damages to the er article six-b of this chapter. Additional Department of Environmental Protection |
| Wall | \n ousts: | | ۸ ما ما ما ما م | | |
| | perator: | Northeast Natural Energy LLC | Address: | 707 Virginia Street E | |
| Teleph | | 304-212-0422 | Facimil- | Charleston, WV 253 | 01 |
| Email: | | hmedley@nne-llc.com | Facsimile: | 304-241-5972 | |
| Oil an | d Gas Pı | ivacy 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.





WEST VIRGINIA DEPARTMENT OF TRANSPORTATION

Division of Highways

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

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

July 18, 2017

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

Subject: DOH Permit for the Mepco Pad, Monongalia County Mepco 12H

47-061-01789 4706101789

Dear Mr. Martin,

Earl Ray Tomblin Governor

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

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

> > Very Truly Yours,

Gary K. Clayton, P.E.

Regional Maintenance Engineer Central Office O&G Coordinator

Dary K. Clayton

Cc: Hollie Medley

Northeast Natural Energy Corporation

CH, OM, D-4

File

Planned Additives to be used in Fracturing Stimulations

| Trade Name | Purpose | Ingredients | Cemical Abstract Service Numner (CAS#) |
|-----------------------|---------------------|--|--|
| Water | Carrier | Water | 7732-18-5 |
| UCL 10.1.1F0/ | Acidizing | Hydrochloric Acid | 7647-01-0 |
| HCI, 10.1-15% | | Water | 7732-18-5 |
| | | Alkyl Dimethyl Benzyl Ammonium Chloride (C12-16) | 68424-85-1 |
| | Biocide | Ethanol | 64-17-5 |
| Alpha 1427 | | Glutaraldehyde | 111-30-8 |
| | | Quaternary Ammonium Chloride | 7173-51-5 |
| | | Water | 7732-18-5 |
| Farmer C NF | Breaker | Hemicellulase Enzyme Concentrate | 9025-56-3 |
| Enzyme G-NE | | Water | 7732-18-5 |
| | Corrosion Inhibitor | Fatty Acids | NA |
| | | Methanol | 67-56-1 |
| CI-14 | | Olefin | NA |
| | | Polyozyalkylenes | NA |
| | | Propargyl Alcohol | 107-19-7 |
| FRW-18 | Friction Reducer | Hydrotreated Light Distillate | 64742-47-8 |
| Ferrotrol 300L | Iron Crontrol | Citric Acid | 77-92-9 |
| Sand, White, 40/70 | Proppant | Cystalline Silica (Quartz) | 14808-50-7 |
| Sand, White, 100 mesh | Proppant | Cystalline Silica (Quartz) | 14808-50-7 |
| Scale Inhibitor | | Siethylene Glycol | 111-46-6 |



