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

Earl Ray Tomblin , Governor
Randy C. Huffman , Cabinet Secretary
www.dep.wv.gov

Monday, August 29, 2016
WELL WORK PERMIT
Horizontal 6A / Horizontal 6A Well - 1

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

Re: Permit approval for FISHER 2H
47-061-01751-00-00

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: FISHER 2H
Farm Name: FISHER, AARON K.
U.S. WELL NUMBER: 47-061-01751-00-00
Horizontal 6A / Horizontal 6A Well - 1
Date Issued: 8/29/2016

API Number: _____

PERMIT CONDITIONS 4706101751

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

CONDITIONS

1. This proposed activity may require permit coverage from the United States Army Corps of Engineers (USACE). Through this permit, you are hereby being advised to consult with USACE regarding this proposed activity.

2. If the operator encounters an unanticipated void, or an anticipated void at an unanticipated depth, the operator shall notify the inspector within 24 hours. Modifications to the casing program may be necessary to comply with W. Va. Code § 22-6A-5a (12), which requires drilling to a minimum depth of thirty feet below the bottom of the void, and installing a minimum of twenty (20) feet of casing. Under no circumstance should the operator drill more than one hundred (100) feet below the bottom of the void or install less than twenty (20) feet of casing below the bottom of the void.

3. When compacting fills, each lift before compaction shall not be more than 12 inches in height, and the moisture content of the fill material shall be within limits as determined by the Standard Proctor Density test of the actual soils used in specific engineered fill, ASTM D698, Standard Test Method for Laboratory Compaction Characteristics of Soil Using Standard Effort, to achieve 95 % compaction of the optimum density. Each lift shall be tested for compaction, with a minimum of two tests per lift per acre of fill. All test results shall be maintained on site and available for review.

4. Operator shall install signage per § 22-6A-8g (6) (B) at all source water locations included in their approved water management plan within 24 hours of water management plan activation.

5. Oil and gas water supply wells will be registered with the Office of Oil and Gas and all such wells will be constructed and plugged in accordance with the standards of the Bureau for Public Health set forth in its Legislative rule entitled *Water Well Regulations,* 64 C.S.R. 19. Operator is to contact the Bureau of Public Health regarding permit requirements. In lieu of plugging, the operator may transfer the well to the surface owner upon agreement of the parties. All drinking water wells within fifteen hundred feet of the water supply well shall be flow tested by the operator upon request of the drinking well owner prior to operating the water supply well.

6. Pursuant to the requirements pertaining to the sampling of domestic water supply wells/springs the operator shall, no later than thirty (30) days after receipt of analytical data provide a written copy to the Chief and any of the users who may have requested such analyses.

7. 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.

8. 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.

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

WW-6B
(04/15)

API NO. 47-_____-_____
OPERATOR WELL NO. Fisher 2H
Well Pad Name: Fisher

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 (Operator ID) | Monongalia (County) | Clay (District) | Blacksville (Quadrangle)

03 256

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

3) Farm Name/Surface Owner: Aaron K. Fisher Public Road Access: State Route 218 (Daybrook Road)

4) Elevation, current ground: 1480' Elevation, proposed post-construction: 1453.04'

5) Well Type (a) Gas X Oil _____ Underground Storage _____
Other _____
(b)If Gas Shallow X Deep _____
Horizontal X

6) Existing Pad: Yes or No No

MJK 5/23/2016

7) Proposed Target Formation(s), Depth(s), Anticipated Thickness and Expected Pressure(s):
Marcellus, 8,276.50' , 103' , 3,600 psi

8) Proposed Total Vertical Depth: 8,276.50'

9) Formation at Total Vertical Depth: Marcellus

10) Proposed Total Measured Depth: 15,175.24'

11) Proposed Horizontal Leg Length: 6,403'

12) Approximate Fresh Water Strata Depths: 50 ' , 1,373'

13) Method to Determine Fresh Water Depths: Driller's Log from Offset Wells

14) Approximate Saltwater Depths: 1,969' , 2,619'

15) Approximate Coal Seam Depths: 819' , 1,371'

16) Approximate Depth to Possible Void (coal mine, karst, other): N/A

4706101751

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

(a) If Yes, provide Mine Info: Name: Adjacent Mine - Federal No. 2
Depth: 1,100'
Seam: Pittsburgh
Owner: ERP Federal Mining Complex, LLC

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WW-6B
(04/15)

API NO. 47-_____-_____
OPERATOR WELL NO. Fisher 2H
Well Pad Name: Fisher

18) **CASING AND TUBING PROGRAM**

TYPE	Size (in)	New or Used	Grade	Weight per ft. (lb/ft)	FOOTAGE: For Drilling (ft)	INTERVALS: Left in Well (ft)	CEMENT: Fill-up (Cu. Ft.)/CTS
Conductor	24"	New	NA	94.71	40'	40'	GTS
Fresh Water	13-3/8"	New	J-55	54.5	1,451'	1,428'	CTS
Coal							
Intermediate	9-5/8"	New	J-55	40	2,680'	2,650'	CTS
Production	5-1/2"	New	P-110	20	15,175.24'	15,205.24	3,490 Cu. Ft.
Tubing	2-7/8"	New	N-80	6.5	NA	8,500'	NA
Liners							

MJK 5/23/2016

TYPE	Size (in)	Wellbore Diameter (in)	Wall Thickness (in)	Burst Pressure (psi)	Anticipated Max. Internal Pressure (psi)	Cement Type	Cement Yield (cu. ft./k)
Conductor	24"	30"	.375	415		4,500 psi Grout	NA
Fresh Water	13-3/8"	17 1/2"	.38"	2,760	2,000	Class A	1.23
Coal							
Intermediate	9-5/8"	12 1/4"	.395"	3,950	3,000	Class A	1.3
Production	5-1/2"	8 3/4"	.361"	12,530	9,700	50:50 Poz	1.21
Tubing	2-7/8"	NA	.217"	10,570	3,600	NA	NA
Liners							

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PACKERS

Kind:				
Sizes:				
Depths Set:				

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API NO. 47-_____-_____
OPERATOR WELL NO. Fisher 2H
Well Pad Name: Fisher

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 7,062.61' TVD/MD. The well will then be horizontally drilled on synthetic based mud from the KOP to approximately 8,276.50' TVD / 15,175.24" MD along a 143 degree azimuth.

20) Describe fracturing/stimulating methods in detail, including anticipated max pressure and max rate:

Multi-stage / high-rate slickwater fracture treatment using various size sands as proppant. First stage will be initiated via pressurization against a burst disc ran in the production casing string or perforated with coiled tubing. Subsequent stages will be perforated with pumped down guns ran on wireline. Individual stages will be isolated with composite frac plugs. Maximum pump rate during any stage will be 110 BPM with a maximum allowable surface pressure of 9,500 PSI. Composite bridge plugs will be set at the end of the last stage to isolate the treated formation.

21) Total Area to be disturbed, including roads, stockpile area, pits, etc., (acres): 26.9

22) Area to be disturbed for well pad only, less access road (acres): 9.7

23) Describe centralizer placement for each casing string:

Surface and intermediate casing strings will have bow spring centralizers placed every third joint (~120') from the shoe joint to surface. Production casing will have rigid body centralizers placed at a minimum of every fourth joint (~160') from TD to surface.

4706101751

24) Describe all cement additives associated with each cement type:

Surface string cement will be a Class A + Max 3% bwoc Calcium Chloride Fresh Water blend. Intermediate string cement will be a Class A Cement + Max 3% bwoc Calcium Chloride + Fresh Water. Production string cement will be (50:50) Poz (Fly Ash):Type I Cement with a gas migration additive.

25) Proposed borehole conditioning procedures:

Surface string will use a 25.0 bbls Gel Pill + LCM + 25 lbs Cello Flake + 20 lbs/bbl Bentonite @ 8.4 ppg & 10 bbls fresh water spacer prior to cement. Intermediate string will use a 25.0 bbls Gel Pill + LCM + 25 lbs Cello Flake + 20 lbs/bbl Bentonite @ 8.4 ppg & 10 bbls fresh water spacer prior to cement. Production string will use a 50.0 bbls SealBond 25 + 1 gal/bbl US-40 + 275 lbs/bbl Barite + 1 gal/bbl SS-2 Spacer @ 13.5 ppg prior to cement.

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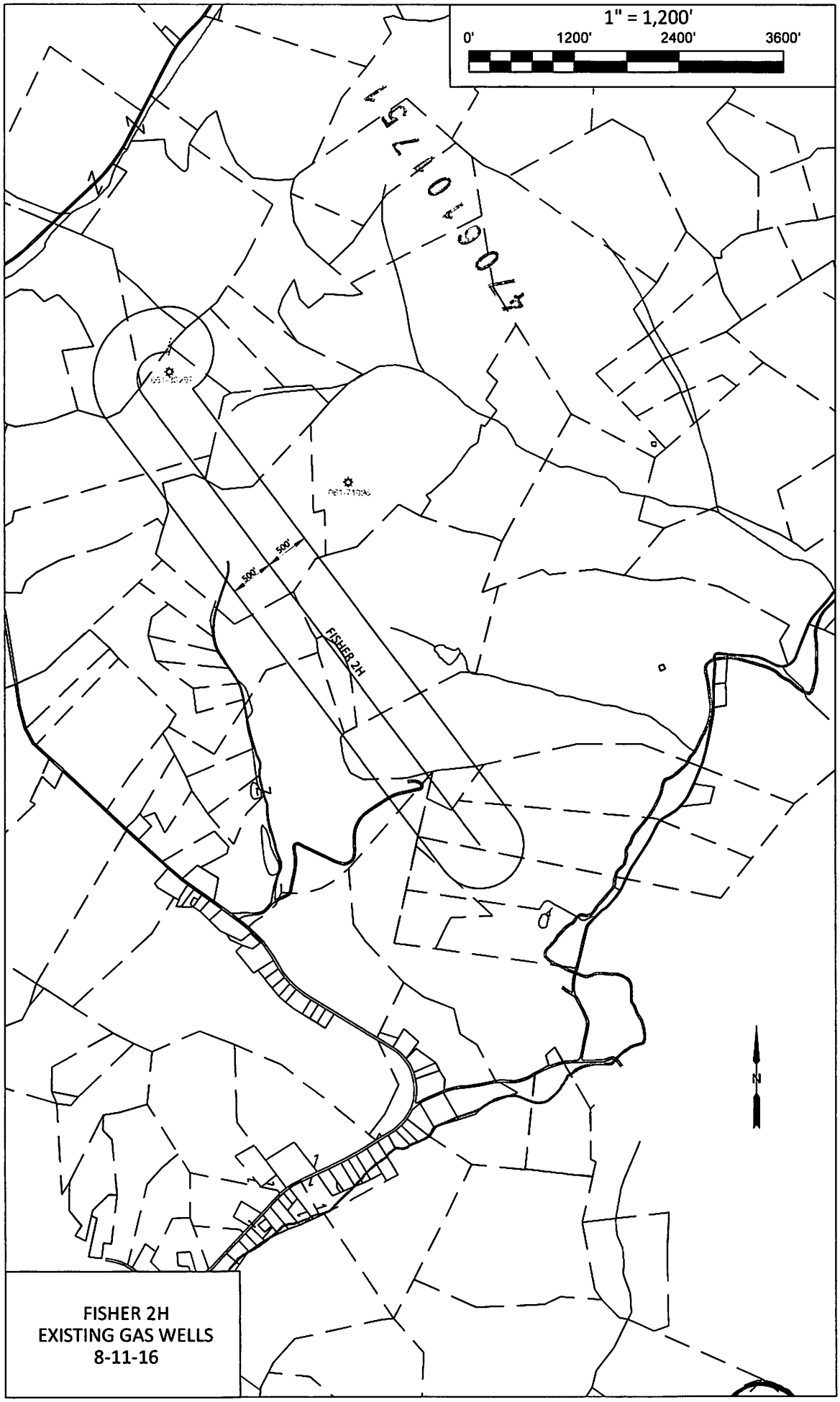
*Note: Attach additional sheets as needed.



FISHER 2H
EXISTING GAS WELLS
8-11-16

Fisher 2H - Area of Review

4706101751

API Number	Well Name	Well Number	Operator	Latitude (NAD 27)	Longitude (NAD 27)	TMP	TVD	Producing Formation
47-061-302970000	R W SINE/LOU KENT SINE	1	HOPE NATURAL GAS COMPANY	39.69540	-80.21390	8-7-8	unknown	Pre 1929 No Records
47-061-710970000	MAUDE MCCOY ET AL		HOPE NATURAL GAS COMPANY	39.6868	-80.20550	8-10-33.1	unknown	Pre 1929 No Records

NORTHEAST NATURAL ENERGY, LLC

Location: Monongalia County, WV
Field: Monongalia
Facility: Fisher Pad
Slot: Slot #02
Well: Fisher 2H
Wellbore: Fisher 2H PWB

northeast NATURAL ENERGY

BAKER HUGHES

Location Information						
Facility Name			Grid East (US ft)	Grid North (US ft)	Latitude	Longitude
Fisher Pad			1767721.550	436593.560	39°41'47.353"N	80°12'48.776"W
Slot	Local N (ft)	Local E (ft)	Grid East (US ft)	Grid North (US ft)	Latitude	Longitude
Slot #02	-133.97	-40.55	1767681.000	436459.600	39°41'46.026"N	80°12'49.282"W
Top Hole (RKB) to Mud line (At Slot: Slot #02)					16ft	
Mean Sea Level to Mud line (At Slot: Slot #02)					-1453ft	
Top Hole (RKB) to Mean Sea Level					1469ft	

Tie On : 0.00° Inc, 16.00ft MD, 16.00ft TVD, 0.00ft VS
24in Conductor (GL) : 0.00° Inc, 40.00ft MD, 40.00ft TVD, 0.00ft VS
13.375in Casing Surface (GL) : 0.00° Inc, 1428.00ft MD, 1428.00ft TVD, 0.00ft VS
9.625in Casing Intermediate : 0.00° Inc, 2650.00ft MD, 2650.00ft TVD, 0.00ft VS
KOP 1 : 0.00° Inc, 6662.61ft MD, 6662.61ft TVD, 0.00ft VS
8.00°/100ft
End of Build : 32.00° Inc, 7062.61ft MD, 7042.14ft TVD, -85.32ft VS
KOP 2 : 32.00° Inc, 7626.56ft MD, 7520.39ft TVD, -319.62ft VS
10.00°/100ft
Landing Pt. : 90.00° Inc, 8772.04ft MD, 8276.50ft TVD, 201.55ft VS
Fisher 2H LP Rev-1
Fisher 2H BHL Rev-1
BHL : 90.00° Inc, 15175.24ft MD, 8276.50ft TVD, 6604.75ft VS
5.5in Casing Production : 90.00° Inc, 15175.24ft MD, 8276.50ft TVD, 6604.75ft VS

True Vertical Depth (ft)
Vertical Section (ft)
Azimuth 143.00° with reference 0.00 N, 0.00 E

Tie On : 16.00ft TVD, 0.00ft N, 0.00ft E
KOP 1 : 6662.61ft TVD, 0.00ft N, 0.00ft E
End of Build : 7042.14ft TVD, 27.49ft N, 105.30ft W
KOP 2 : 7520.39ft TVD, 102.96ft N, 394.46ft W
Slot #02
Landing Pt. : 8276.50ft TVD, 489.77ft S, 315.05ft W
Fisher 2H LP Rev-1
Fisher 2H BHL Rev-1
BHL : 8276.50ft TVD, 5603.64ft S, 3538.44ft E

Easting (ft)
Northing (ft)

Formation	Depth (KBTVD)
Geneseo	7972'
Tully	8024'
Hamilton	8088'
Upper Marcellus	8195'
Cherry Valley	8236'
Lower Marcellus	8240'
Onondaga	8298'

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	1428'
Intermediate	12-1/4"	9-5/8"	J-55	40	2650'

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N GRID
MAG TRUE
W E

BGGM (1945.0 to 2017.0) Dip: 66.91° Field: 52207.7 nT
Magnetic North is 9.00 degrees West of True North (at 4/30/2016)
Grid North is 0.46 degrees West of True North
To correct azimuth from True to Grid add 0.46 degrees
To correct azimuth from Magnetic to Grid subtract 8.54 degrees

WW-9
(4/16)

API Number 47 - _____ - _____
Operator's Well No. Fisher 2H

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) Dunkard Creek Quadrangle Blacksville, WV

Do you anticipate using more than 5,000 bbls of water to complete the proposed well work? Yes ☑ No ☐

Will a pit be used? Yes ☐ No ☑

If so, please describe anticipated pit waste: N/A

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

Proposed Disposal Method For Treated Pit Wastes:

_____ Land Application
_____ Underground Injection (UIC Permit Number _____)
■ Reuse (at API Number unknown at this time, TBD)
■ Off Site Disposal (Supply form WW-9 for disposal location)
_____ Other (Explain _____

Will closed loop system be used? If so, describe: Yes, Please See Attachment "A"

Drilling medium anticipated for this well (vertical and horizontal)? Air, freshwater, oil based, etc. Air-Vertical; Oil Based - Curve & Horizonta

-If oil based, what type? Synthetic, petroleum, etc. Synthetic Oil Based Mud

Additives to be used in drilling medium? Organophilic Clay Viscosifiers, Lime, Unsaturated Fatty Acids, CaCl, Barite, Emulsifiers, Mica LCM, Water Loss Agents

Drill cuttings disposal method? Leave in pit, landfill, removed offsite, etc. Removed Offsite - Please See Attachment "A"

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

-Landfill or offsite name/permit number? Please See Attachment "A"

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

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

I certify under penalty of law that I have personally examined and am familiar with the information submitted on this application form and all attachments thereto and that, based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the information is true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine or imprisonment.

Company Official Signature Hollie M Medley

Company Official (Typed Name) Hollie M. Medley

Company Official Title Regulatory Coordinator

OFFICIAL SEAL
STATE OF WEST VIRGINIA
NOTARY PUBLIC
Michael Eisenhauer
156 Meadowridge Townhomes
Morgantown, WV 26505
My Commission Expires Sep. 25, 2020

Subscribed and sworn before me this 23 day of May, 2016

Michael Eisenhauer / Mich Eisenhauer Notary Public

My commission expires September 25, 2020

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Form WW-9

Operator's Well No. Fisher 2H

Northeast Natural Energy LLC

Proposed Revegetation Treatment: Acres Disturbed 26.9 Prevegetation pH 5-7

Lime 2 Tons/acre or to correct to pH 7

Fertilizer type 19-19-19

Fertilizer amount 300 lbs/acre

Mulch 2 Tons/acre

Seed Mixtures

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

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

Photocopied section of involved 7.5' topographic sheet.

Plan Approved by: Gayne J Knutson

Comments:

4706101751

Title: Inspector Date: 5/23/2016

Field Reviewed? (X) 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 Fisher 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.

Fisher 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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northeast
NATURAL ENERGY

Fisher 2H

SITE SAFETY PLAN

4706101751

May 12, 2016

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5/23/2016

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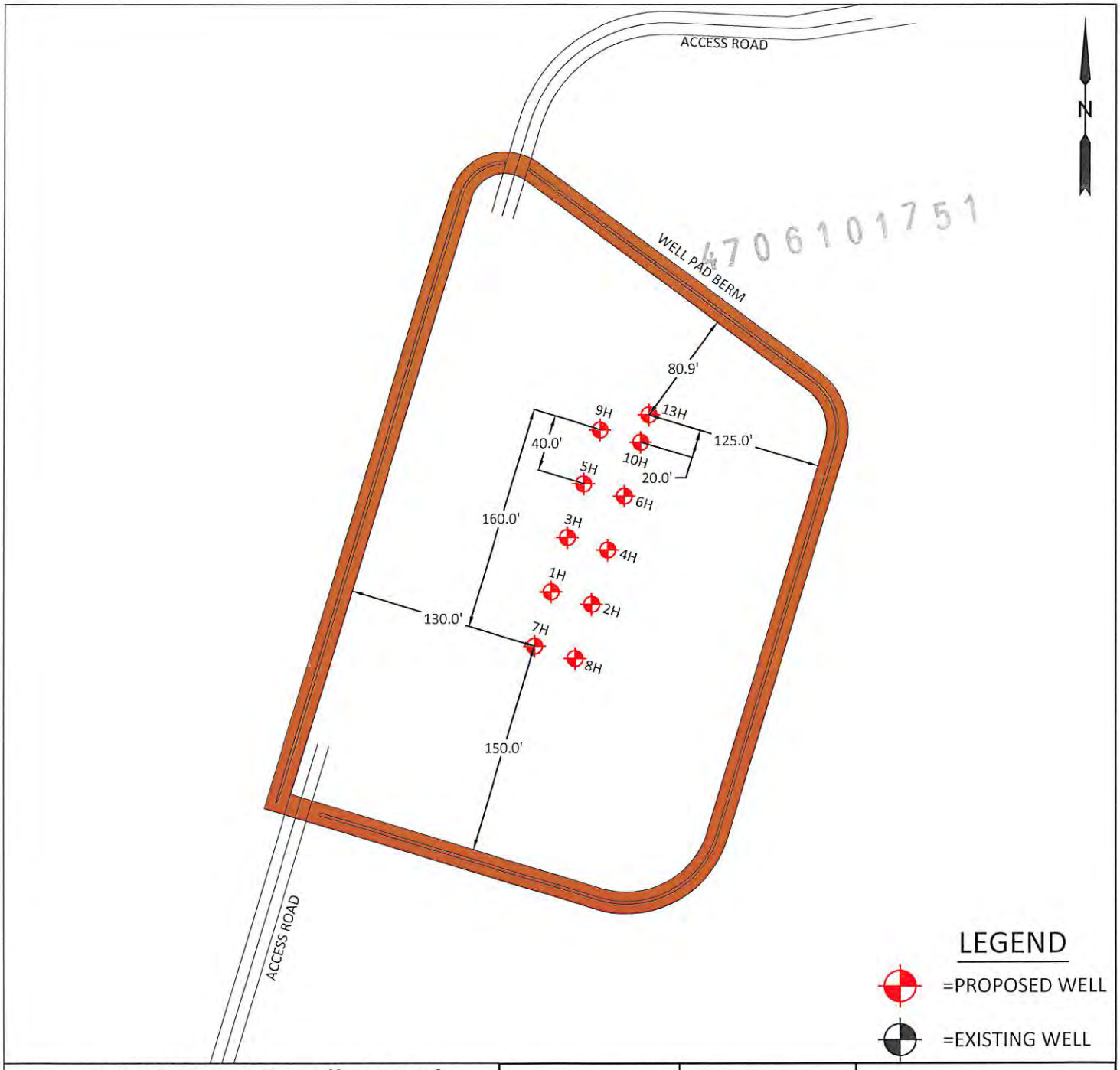


SCALE BAR: 1"=100'

0' 100' 200' 300'

PREPARED FOR

NORTHEAST NATURAL ENERGY LLC

FISHER WELL PAD

CLAY DISTRICT, MONONGALIA COUNTY, WV

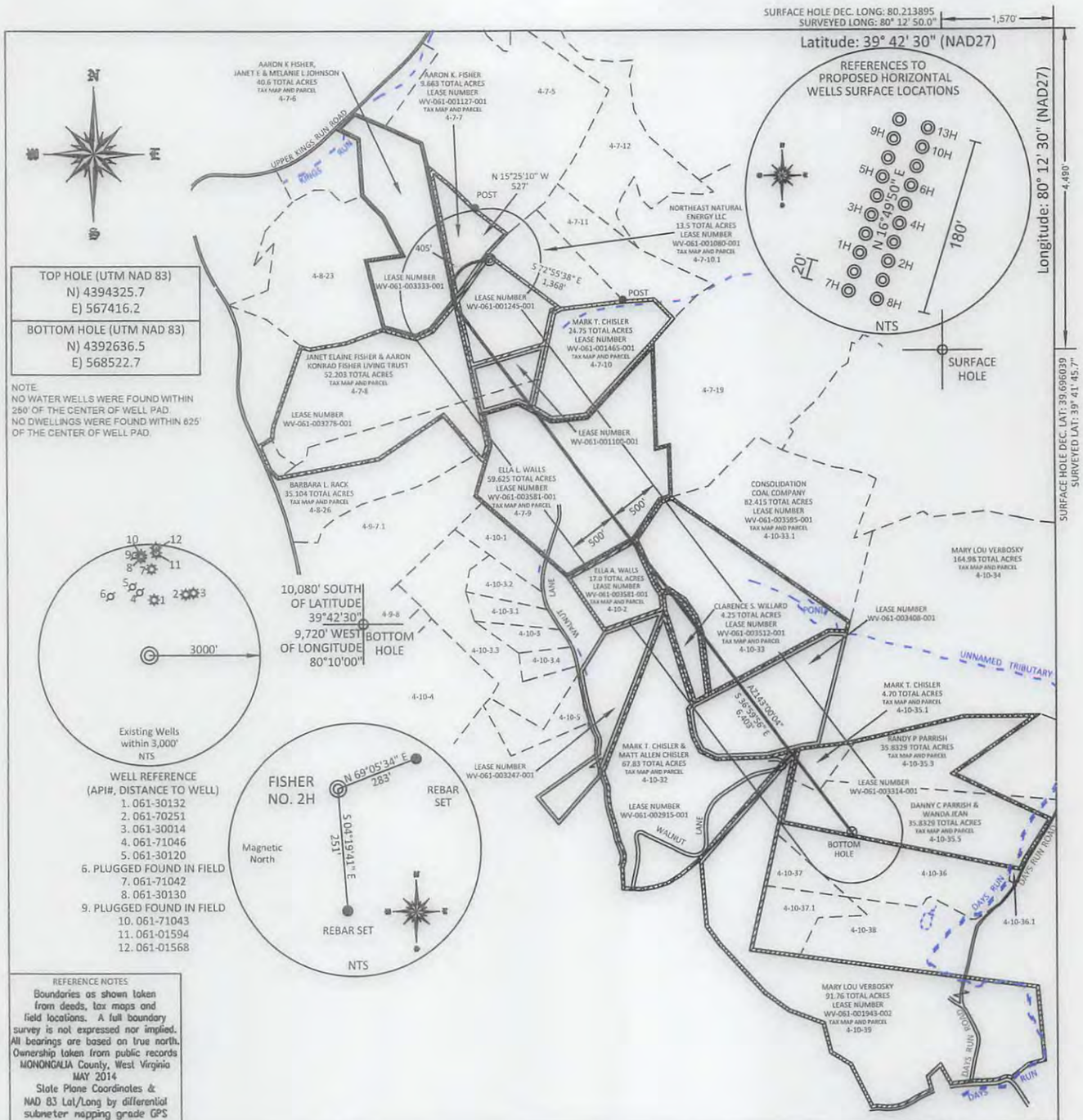
PREPARED BY

BOORD BENCHEK & ASSOC., INC.

ENGINEERING, SURVEYING, CONSTRUCTION AND MINING SERVICES

SOUTHPOINTE, PA 15317 PHONE: 724-746-1055

Well Number	API Number	Status
Fisher 1H	47-061-01733	Permitted
Fisher 2H	Permit Applied	Proposed
Fisher 3H	47-061-01734	Permitted
Fisher 4H	Permit Applied	Proposed
Fisher 5H	47-061-01735	Permitted
Fisher 6H	Permit Applied	Proposed
Fisher 7H	47-061-01736	Permitted
Fisher 8H	Permit Applied	Proposed
Fisher 9H	47-061-01737	Permitted
Fisher 10H	47-061-01738	Permitted
Fisher 13H	47-061-01739	Permitted



FILE #: NNE14
DRAWING #: 2384
SCALE: PLAT: 1" = 1400' TICK: 1" = 2000'
MINIMUM DEGREE OF ACCURACY: 1/200
PROVEN SOURCE OF ELEVATION: SUBMETER MAPPING GRADE GPS

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 REGULATIONS ISSUED AND PRESCRIBED BY THE DEPARTMENT OF ENVIRONMENTAL PROTECTION.

Signed: _____

L.L.S. #2124 : Ernest J. Benchek III

ERNEST J. BENCHEK III
LICENSED
No. 2124
STATE OF WEST VIRGINIA
PROFESSIONAL SURVEYOR

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

WVDEP
OFFICE OF OIL & GAS
601 57TH STREET
CHARLESTON, WV 25304

DATE: MAY 16, 2016

OPERATOR'S WELL #: FISHER NO. 2H

API WELL #: 47 (STATE) 61 (COUNTY) 01751 (PERMIT) H6A

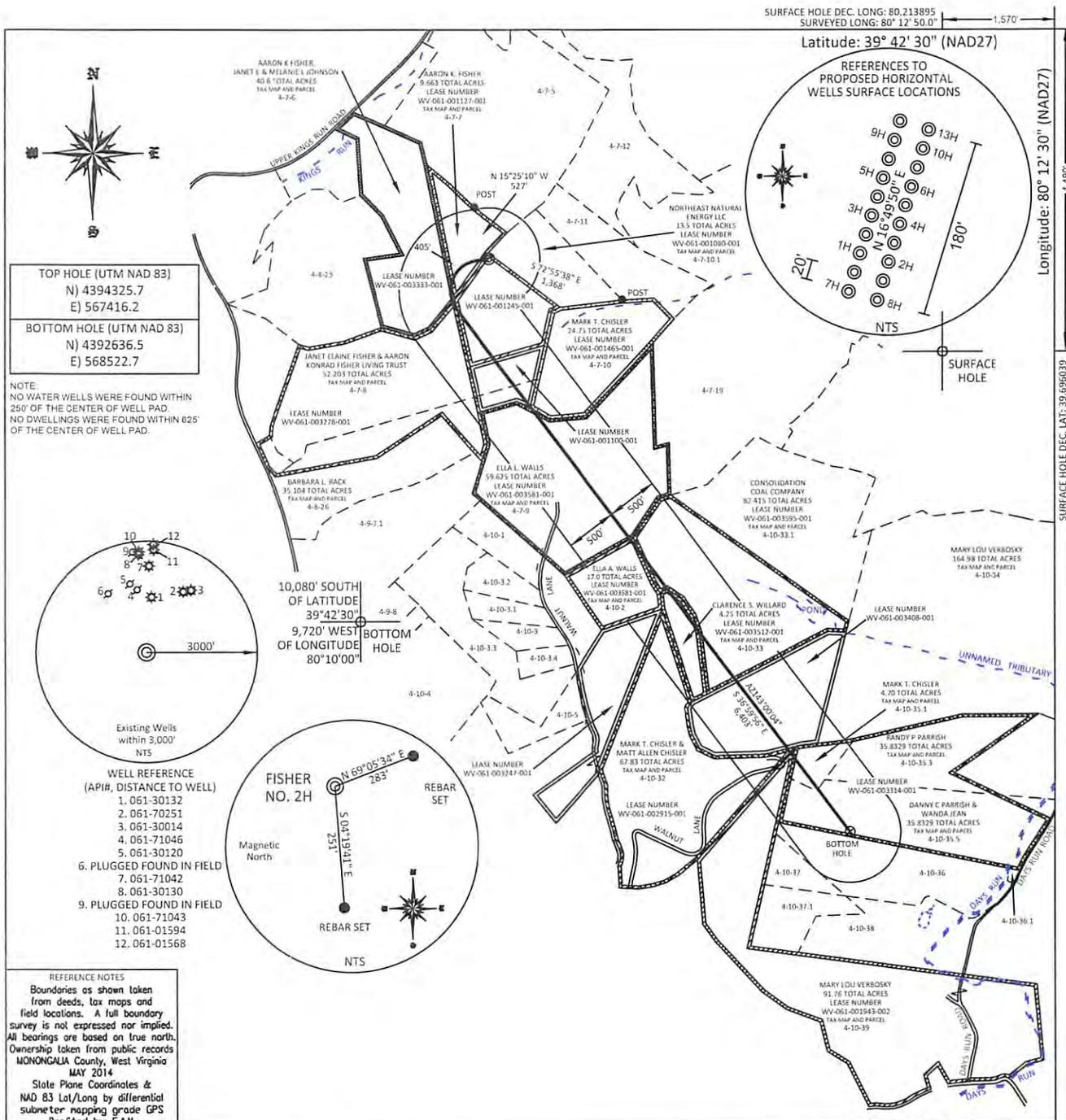
Well Type: ☐ Oil ☐ Waste Diposal ☐ Production ☐ Deep
☒ Gas ☐ Liquid Injection ☐ Storage ☒ Shallow

PROPOSED ELEVATION: 1,453.04'
CURRENT ELEVATION: 1,480'

WATERSHED: DUNKARD CREEK
QUADRANGLE: BLACKSVILLE
COUNTY/DISTRICT: MONONGALIA / CLAY
ACREAGE: 9.663 +/-
SURFACE OWNER: AARON K. FISHER
ACREAGE: 704.9418 +/-
OIL & GAS ROYALTY OWNER: HENRY P. AMES, III, ET AL
LEASE NUMBERS: _____

DRILL ☒ CONVERT ☐ DRILL DEEPER ☐ REDRILL ☐ FRACTURE OR STIMULATE ☒
PLUG OFF FORMATION ☐ PERFORATE NEW FORMATION ☐ PLUG & ABANDON ☐
CLEAN OUT & REPLUG ☐ OTHER CHANGE ☐ (SPECIFY): _____

TARGET FORMATION: MARCELLUS
ESTIMATED DEPTH: TVD: 8,276.50' TMD: 15,175.24'
WELL OPERATOR: NORTHEAST NATURAL ENERGY LLC
DESIGNATED AGENT: JOHN ADAMS
ADDRESS: 707 VIRGINIA STREET EAST, SUITE 1200
ADDRESS: 707 VIRGINIA STREET EAST, SUITE 1200
CITY: CHARLESTON STATE: WV ZIP CODE: 25301
CITY: CHARLESTON STATE: WV ZIP CODE: 25301



FILE #: NNE14
DRAWING #: 2384
SCALE: PLAT: 1" = 1400' TICK: 1" = 2000'
MINIMUM DEGREE OF ACCURACY: 1/200
PROVEN SOURCE OF ELEVATION: SUBMETER MAPPING GRADE GPS

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 REGULATIONS ISSUED AND PRESCRIBED BY THE DEPARTMENT OF ENVIRONMENTAL PROTECTION.

Signed: _____

L.L.S. #2124 : Ernest J. Benchek III

ERNEST J. BENCHEK III LICENSED No. 2124 STATE OF WEST VIRGINIA PROFESSIONAL SURVEYOR

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

WVDEP
OFFICE OF OIL & GAS
601 57TH STREET
CHARLESTON, WV 25304

DATE: MAY 16, 2016

OPERATOR'S WELL #: FISHER NO. 2H

API WELL #: 47 STATE 61 COUNTY 01751 PERMIT 176A.

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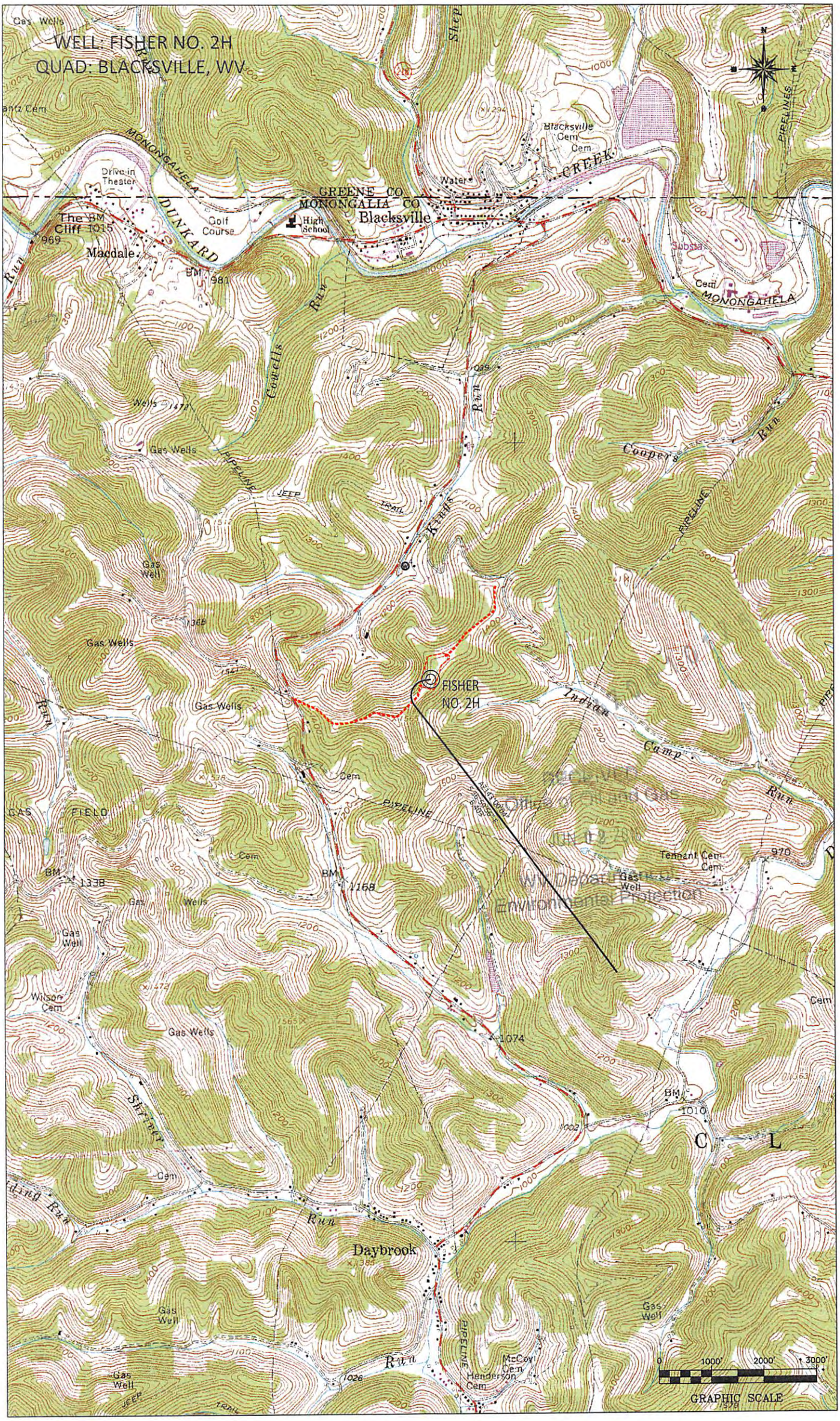
Well Type: ☐ Oil ☐ Waste Diposal ☐ Production ☐ Deep
☒ Gas ☐ Liquid Injection ☐ Storage ☒ Shallow

WATERSHED: DUNKARD CREEK
COUNTY/DISTRICT: MONONGALIA / CLAY
SURFACE OWNER: AARON K. FISHER
OIL & GAS ROYALTY OWNER: HENRY P. AMES, III, ET AL
LEASE NUMBERS: _____

PROPOSED ELEVATION: 1,453.04'
CURRENT ELEVATION: 1,480'
QUADRANGLE: BLACKSVILLE
ACREAGE: 9.663 +/-
ACREAGE: 704.9418 +/-

DRILL ☒ CONVERT ☐ DRILL DEEPER ☐ REDRILL ☐ FRACTURE OR STIMULATE ☒
PLUG OFF FORMATION ☐ PERFORATE NEW FORMATION ☐ PLUG & ABANDON ☐
CLEAN OUT & REPLUG ☐ OTHER CHANGE ☐ (SPECIFY): _____

TARGET FORMATION: MARCELLUS
ESTIMATED DEPTH: TVD: 8,276.50' TMD: 15,175.24'
WELL OPERATOR: NORTHEAST NATURAL ENERGY LLC
DESIGNATED AGENT: JOHN ADAMS
ADDRESS: 707 VIRGINIA STREET EAST, SUITE 1200
ADDRESS: 707 VIRGINIA STREET EAST, SUITE 1200
CITY: CHARLESTON STATE: WV ZIP CODE: 25301
CITY: CHARLESTON STATE: WV ZIP CODE: 25301


WELL: FISHER NO. 2H
QUAD: BLACKSVILLE, WV
FISHER NO. 2H
GREENE CO
MONONGALIA CO
Blacksville
Macdale
Daybrook
Drive-in Theater
Golf Course
High School
Blacksville Cem
Water
Substa
Cem
MONONGAHELA
DUNKARD
CREEK
Cowells Run
Kings Run
Coopers Run
Indian Camp Run
Shriver Run
Gas Wells
Gas Well
Wilson Cem
Tennant Cem
Henderson Cem
McCoy Cem
PIPELINE
JEEP TRAIL
GAS FIELD
0 1000' 2000' 3000'
GRAPHIC SCALE

WW-6A1
(5/13)

Operator's Well No. Fisher 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
See Attachment	See Attachment	See Attachment	See Attachment	See Attachment

4706101751

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

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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 Hollie M Medley
Its: Regulatory Coordinator

Operator's Well No. Fisher 2H

NNE Lease No.	Lessor Name	Lesse Name	Royalty	Book/Page
WV-061-003333-001	PORTER, KENT MICHAEL	NORTHEAST NATURAL ENERGY LLC	0.125 OR GREATER	1503/694
WV-061-003334-001	PORTER, KENT MICHAEL	NORTHEAST NATURAL ENERGY LLC	0.125 OR GREATER	1503/694
WV-061-003524-001	O'DAY OIL LLC	NORTHEAST NATURAL ENERGY LLC	0.125 OR GREATER	1523/780
WV-061-003524-002	BURT BARANKOVICH FAMILY MINERAL	NORTHEAST NATURAL ENERGY LLC	0.125 OR GREATER	1529/835
WV-061-003581-001	BLESSING, TRACY	NORTHEAST NATURAL ENERGY LLC	0.125 OR GREATER	1523/151
WV-061-003581-002	FERRELL, CARLA	NORTHEAST NATURAL ENERGY LLC	0.125 OR GREATER	524/441
WV-061-003581-003	WALLS, LINDA R.	NORTHEAST NATURAL ENERGY LLC	0.125 OR GREATER	1528/139
WV-061-003581-004	NORBERG, LOIS	NORTHEAST NATURAL ENERGY LLC	0.125 OR GREATER	1528/115
WV-061-001127-001	AMES, HENRY P., III	*CHESAPEAKE APPALACHIA LLC	0.125 OR GREATER	1359/671
WV-061-002534-001	SHUMAN INC.	*CHESAPEAKE APPALACHIA LLC	0.125 OR GREATER	1439/366
WV-061-001245-001	AMES, HENRY P. III	*CHESAPEAKE APPALACHIA LLC	0.125 OR GREATER	1368/351
WV-061-002715-001	EDDY, LINDA	*CHESAPEAKE APPALACHIA LLC	0.125 OR GREATER	1425/437
WV-061-002715-002	LEMLEY, DENZIL	*CHESAPEAKE APPALACHIA LLC	0.125 OR GREATER	1425/443
WV-061-002715-003	BREWER, RAYMOND	*CHESAPEAKE APPALACHIA LLC	0.125 OR GREATER	1425/729
WV-061-002715-004	SHULTZ, JAMES ROSS	*CHESAPEAKE APPALACHIA LLC	0.125 OR GREATER	1425/502
WV-061-002715-005	MEYERS, DOLORES	*CHESAPEAKE APPALACHIA LLC	0.125 OR GREATER	1426/147
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WV-061-002715-008	FOX, JOHN PAUL	*CHESAPEAKE APPALACHIA LLC	0.125 OR GREATER	1425/545
WV-061-002715-009	WILSON, DAVID L.	*CHESAPEAKE APPALACHIA LLC	0.125 OR GREATER	1426/114
WV-061-002715-010	WILSON, RICHARD N.	*CHESAPEAKE APPALACHIA LLC	0.125 OR GREATER	1426/111
WV-061-002715-011	LEMLEY, CAROL	*CHESAPEAKE APPALACHIA LLC	0.125 OR GREATER	1425/293
WV-061-002715-012	REXRODE, CHARLOTTE	*CHESAPEAKE APPALACHIA LLC	0.125 OR GREATER	1425/287
WV-061-002715-013	MUTTER, MARY	*CHESAPEAKE APPALACHIA LLC	0.125 OR GREATER	1425/525
WV-061-002715-014	FRANCE, SHIRLEY	*CHESAPEAKE APPALACHIA LLC	0.125 OR GREATER	1425/723
WV-061-002715-015	HEADLEY, DONALD	*CHESAPEAKE APPALACHIA LLC	0.125 OR GREATER	1426/135
WV-061-002715-016	STRANGE, BARBARA SUE	*CHESAPEAKE APPALACHIA LLC	0.125 OR GREATER	1426/782
WV-061-002715-017	HEADLEY, JAMES	*CHESAPEAKE APPALACHIA LLC	0.125 OR GREATER	1425/699
WV-061-002715-018	JANES, JENNIE	*CHESAPEAKE APPALACHIA LLC	0.125 OR GREATER	1425/687
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WV-061-002715-021	GORMAN, OLLIE	*CHESAPEAKE APPALACHIA LLC	0.125 OR GREATER	1425/705
WV-061-002715-022	MERCER, JOSEPH T.	*CHESAPEAKE APPALACHIA LLC	0.125 OR GREATER	1429/705
WV-061-002715-023	BROKAW, LORUMA B. AND DAVID L.	*CHESAPEAKE APPALACHIA LLC	0.125 OR GREATER	1425/705
WV-061-002715-024	JONES, DEBRA F.	*CHESAPEAKE APPALACHIA LLC	0.125 OR GREATER	1425/471
WV-061-002715-025	CRABTREE, JANET D.	*CHESAPEAKE APPALACHIA LLC	0.125 OR GREATER	1427/581
WV-061-002715-026	JONES, JOHN C. AND PAULINE	*CHESAPEAKE APPALACHIA LLC	0.125 OR GREATER	1427/575
WV-061-002715-027	JONES, ALBERTA R., ET AL	*CHESAPEAKE APPALACHIA LLC	0.125 OR GREATER	1428/406
WV-061-002715-028	JONES, DAVID A.	*CHESAPEAKE APPALACHIA LLC	0.125 OR GREATER	1426/751
WV-061-002715-029	MALLERNEE, PATRICIA K.	*CHESAPEAKE APPALACHIA LLC	0.125 OR GREATER	1426/745
WV-061-002715-030	SIMPLICAN, CONNIE J.	*CHESAPEAKE APPALACHIA LLC	0.125 OR GREATER	1425/431
WV-061-002715-031	JONES, THOMAS D.	*CHESAPEAKE APPALACHIA LLC	0.125 OR GREATER	1425/425
WV-061-002715-032	YOST, LORETTA J.	*CHESAPEAKE APPALACHIA LLC	0.125 OR GREATER	1427/200
WV-061-002715-033	JONES, TRISHA	*CHESAPEAKE APPALACHIA LLC	0.125 OR GREATER	1429/317
WV-061-002715-034	JONES, GARY C.	*CHESAPEAKE APPALACHIA LLC	0.125 OR GREATER	1426/739
WV-061-002715-035	HALL, MARY BREWER	*CHESAPEAKE APPALACHIA LLC	0.125 OR GREATER	1425/711
WV-061-002715-036	WERNETTE, JEANNE	*CHESAPEAKE APPALACHIA LLC	0.125 OR GREATER	1427/700
WV-061-002715-037	JONES, STEVE	*CHESAPEAKE APPALACHIA LLC	0.125 OR GREATER	1429/311
WV-061-002715-038	EDDY, ALMEADA J.	*CHESAPEAKE APPALACHIA LLC	0.125 OR GREATER	1428/726
WV-061-002715-039	GEE, PAULINE	*CHESAPEAKE APPALACHIA LLC	0.125 OR GREATER	1425/519
WV-061-002715-040	HANDO, ANNE	*CHESAPEAKE APPALACHIA LLC	0.125 OR GREATER	1427/821
WV-061-002715-041	BONFILI, REBECCA	*CHESAPEAKE APPALACHIA LLC	0.125 OR GREATER	1427/827
WV-061-002715-042	MERCER, FRED B. AND DORRIS	*CHESAPEAKE APPALACHIA LLC	0.125 OR GREATER	1427/833
WV-061-002715-043	MERCER, DAVID	*CHESAPEAKE APPALACHIA LLC	0.125 OR GREATER	1427/815
WV-061-002715-044	SUDER, HELEN L. AND MILFORD B.	*CHESAPEAKE APPALACHIA LLC	0.125 OR GREATER	1429/890
WV-061-002715-045	MERRIFIELD, THORNTON AND ALBERTA	*CHESAPEAKE APPALACHIA LLC	0.125 OR GREATER	1428/402
WV-061-002715-046	HATFIELD, SALLY JO AND GERALD W.	*CHESAPEAKE APPALACHIA LLC	0.125 OR GREATER	1428/171
WV-061-002715-047	HAUGHT, MARK R. AND CYNTHIA	*CHESAPEAKE APPALACHIA LLC	0.125 OR GREATER	1438/578
WV-061-002715-048	VUGRINE JONI L. AND JAMES V.	*CHESAPEAKE APPALACHIA LLC	0.125 OR GREATER	1442/535
WV-061-002715-049	HAUGHT, ANDY LEE AND LISA E.	*CHESAPEAKE APPALACHIA LLC	0.125 OR GREATER	1445/115

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WV-061-002715-050	PHILLIPS, THOMAS L.	*CHESAPEAKE APPALACHIA LLC	0.125 OR GREATER	1455/403
WV-061-002715-051	PHILLIPS, ANTHONY M.	*CHESAPEAKE APPALACHIA LLC	0.125 OR GREATER	1468/203
WV-061-002715-052	HATFIELD, SALLY JO AND GERALD W.	NORTHEAST NATURAL ENERGY LLC	DEED	1534/52
WV-061-003549-001	WILSON, DAVID L.	NORTHEAST NATURAL ENERGY LLC	0.125 OR GREATER	1525/214
WV-061-003549-002	JOHN PAUL FOX ESTATE	NORTHEAST NATURAL ENERGY LLC	0.125 OR GREATER	1524/291
WV-061-003549-003	WILSON, RICHARD N.	NORTHEAST NATURAL ENERGY LLC	0.125 OR GREATER	1525/226
WV-061-003549-004	SUDER, HELEN L. AND MILFORD B.	NORTHEAST NATURAL ENERGY LLC	0.125 OR GREATER	1525/224
WV-061-001100-001	CUTRONE, RUTH ANN AND SAMUEL	*CHESAPEAKE APPALACHIA LLC	0.125 OR GREATER	1379/140
WV-061-001100-002	MERCER, RICHARD A. AND FRANCES D.	*CHESAPEAKE APPALACHIA LLC	0.125 OR GREATER	1370/116
WV-061-001100-003	GORMAN, OLLIE	*CHESAPEAKE APPALACHIA LLC	0.125 OR GREATER	1369/674
WV-061-001100-004	MERCER, FRED	*CHESAPEAKE APPALACHIA LLC	0.125 OR GREATER	1369/677
WV-061-001100-005	MERCER, VERNON D.	*CHESAPEAKE APPALACHIA LLC	0.125 OR GREATER	1369/680
WV-061-001100-006	MERCER, NOLAN C.	*CHESAPEAKE APPALACHIA LLC	0.125 OR GREATER	1369/683
WV-061-001100-007	JONES, DELMA J. MERCER	*CHESAPEAKE APPALACHIA LLC	0.125 OR GREATER	1369/648
WV-061-001100-008	MERCER, ASA W. JR.	*CHESAPEAKE APPALACHIA LLC	0.125 OR GREATER	1370/511
WV-061-001100-009	KONOSKI, MIKE	*CHESAPEAKE APPALACHIA LLC	0.125 OR GREATER	1370/514
WV-061-001100-010	SCHIPONO, MARY E.	*CHESAPEAKE APPALACHIA LLC	0.125 OR GREATER	1370/517
WV-061-001100-011	MAXWELL, SHERRY E.	*CHESAPEAKE APPALACHIA LLC	0.125 OR GREATER	1376/113
WV-061-001100-012	MCCOY, LOIS J.	*CHESAPEAKE APPALACHIA LLC	0.125 OR GREATER	1404/235
WV-061-001112-001	MERCER, ROBERT AND LILA	*CHESAPEAKE APPALACHIA LLC	0.125 OR GREATER	1374/511
WV-061-001112-002	JANES, ROBERT AND JENNIE	*CHESAPEAKE APPALACHIA LLC	0.125 OR GREATER	1374/502
WV-061-001112-003	HEADLEY, JIMMIE F. AND ELIZABETH	*CHESAPEAKE APPALACHIA LLC	0.125 OR GREATER	1374/517
WV-061-001112-004	PERRY, JACK AND NAOMI	*CHESAPEAKE APPALACHIA LLC	0.125 OR GREATER	1374/508
WV-061-001112-005	MERCER, ALBERT AND ALFRETTA	*CHESAPEAKE APPALACHIA LLC	0.125 OR GREATER	1374/505
WV-061-001112-006	HEADLEY, DONALD R. AND GLENDORA M.	*CHESAPEAKE APPALACHIA LLC	0.125 OR GREATER	1374/514
WV-061-001117-000	RACK, BARBARA LOUISE	NORTHEAST NATURAL ENERGY LLC	0.125 OR GREATER	1368/351
WV-061-002715-001	EDDY, LINDA	*CHESAPEAKE APPALACHIA LLC	0.125 OR GREATER	1425/437
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WV-061-002715-032	YOST, LORETTA J.	*CHESAPEAKE APPALACHIA LLC	0.125 OR GREATER	1427/200
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WV-061-002715-036	WERNETTE, JEANNE	*CHESAPEAKE APPALACHIA LLC	0.125 OR GREATER	1427/700
WV-061-002715-037	JONES, STEVE	*CHESAPEAKE APPALACHIA LLC	0.125 OR GREATER	1429/311

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WV-061-002715-038	EDDY, ALMEADEA J.	*CHESAPEAKE APPALACHIA LLC	0.125 OR GREATER	1428/726
WV-061-002715-039	GEE, PAULINE	*CHESAPEAKE APPALACHIA LLC	0.125 OR GREATER	1425/519
WV-061-002715-040	HANDO, ANNE	*CHESAPEAKE APPALACHIA LLC	0.125 OR GREATER	1427/821
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WV-061-002715-043	MERCER, DAVID	*CHESAPEAKE APPALACHIA LLC	0.125 OR GREATER	1427/815
WV-061-002715-044	SUDER, HELEN L. AND MILFORD B.	*CHESAPEAKE APPALACHIA LLC	0.125 OR GREATER	1429/830
WV-061-002715-045	MERRIFIELD, THORNTON AND ALBERTA	*CHESAPEAKE APPALACHIA LLC	0.125 OR GREATER	1428/442
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WV-061-002715-052	HATFIELD, SALLY JO AND GERALD W.	NORTHEAST NATURAL ENERGY LLC	DEED	1534/52
WV-061-002800-001	WHARTON, JOSEPH THOMAS	*CHESAPEAKE APPALACHIA LLC	0.125 OR GREATER	1434/228
WV-061-002800-002	LEMLEY, KYLE AND PAULA	*CHESAPEAKE APPALACHIA LLC	0.125 OR GREATER	1431/436
WV-061-002800-003	CALVERT, CHARLES W.	*CHESAPEAKE APPALACHIA LLC	0.125 OR GREATER	1431/800
WV-061-003581-001	BLESSING, TRACY	NORTHEAST NATURAL ENERGY LLC	0.125 OR GREATER	1523/151
WV-061-003581-002	FERRELL, CARLA	NORTHEAST NATURAL ENERGY LLC	0.125 OR GREATER	524/441
WV-061-003581-003	WALLS, LINDA R.	NORTHEAST NATURAL ENERGY LLC	0.125 OR GREATER	1528/139
WV-061-003581-004	NORBERG, LOIS	NORTHEAST NATURAL ENERGY LLC	0.125 OR GREATER	1528/115
WV-061-001465-001	THOMAS, CHARLES L.	*CHESAPEAKE APPALACHIA LLC	0.125 OR GREATER	1379/174
WV-061-001465-002	THOMAS, HAZEL R.	*CHESAPEAKE APPALACHIA LLC	0.125 OR GREATER	1379/177
WV-061-001465-003	THOMAS, JAMES HENRY	*CHESAPEAKE APPALACHIA LLC	0.125 OR GREATER	1379/180
WV-061-002916-001	CHISLER, MARK T. AND RITA	*WEST AUGUSTA RESOURCES LLC	0.125 OR GREATER	1402/624
WV-061-003581-001	BLESSING, TRACY	NORTHEAST NATURAL ENERGY LLC	0.125 OR GREATER	1523/151
WV-061-003581-002	FERRELL, CARLA	NORTHEAST NATURAL ENERGY LLC	0.125 OR GREATER	524/441
WV-061-003581-003	WALLS, LINDA R.	NORTHEAST NATURAL ENERGY LLC	0.125 OR GREATER	1528/139
WV-061-003581-004	NORBERG, LOIS	NORTHEAST NATURAL ENERGY LLC	0.125 OR GREATER	1528/115
WV-061-001468-001	FORBES, HAZEL R. THOMAS	*CHESAPEAKE APPALACHIA LLC	0.125 OR GREATER	1379/308
WV-061-001468-002	THOMAS, CHARLES L.	*CHESAPEAKE APPALACHIA LLC	0.125 OR GREATER	1383/497
WV-061-001468-003	THOMAS, JAMES HENRY	*CHESAPEAKE APPALACHIA LLC	0.125 OR GREATER	1383/503
WV-061-003247-001	THOMAS, JAMES H.	*CHESAPEAKE APPALACHIA LLC	0.125 OR GREATER	1451/087
WV-061-003247-002	SUMMERS, JANET K.	NORTHEAST NATURAL ENERGY LLC	0.125 OR GREATER	1535/625
WV-061-003247-003	KNISELY, JAMES G.	NORTHEAST NATURAL ENERGY LLC	0.125 OR GREATER	1535/623
WV-061-003247-004	BAUER, DELORIS JUNE	NORTHEAST NATURAL ENERGY LLC	0.125 OR GREATER	1535/712
WV-061-003247-005	HAWKINS, DONALD L. AND BONNIE K.	NORTHEAST NATURAL ENERGY LLC	0.125 OR GREATER	1532/612
WV-061-003247-006	SWIGER, JOSEPH AND ROSE	NORTHEAST NATURAL ENERGY LLC	0.125 OR GREATER	1538/544
WV-061-003247-007	SWIGER, JOHN A. AND JULIE	NORTHEAST NATURAL ENERGY LLC	0.125 OR GREATER	1538/556
WV-061-003247-008	MILLIRON, ALICE	NORTHEAST NATURAL ENERGY LLC	0.125 OR GREATER	1538/567
WV-061-002915-001	CHISLER, MARK T. AND RITA, ET AL	*WEST AUGUSTA RESOURCES LLC	0.125 OR GREATER	1402/622
WV-061-003512-001	WILLARD, CLARENCE AND ANTOINETTE	NORTHEAST NATURAL ENERGY LLC	0.125 OR GREATER	1521/612
WV-061-003512-002	SEKULA, TONY JR. AND LISA	NORTHEAST NATURAL ENERGY LLC	0.125 OR GREATER	1544/100
WV-061-003512-003	WILLIAMS, LAWRENCE JOSEPH AND MARGARET ELIZABETH	NORTHEAST NATURAL ENERGY LLC	0.125 OR GREATER	1542/14
WV-061-003512-004	ROUSSEAU, VICKY L. AND GREGORY J.	NORTHEAST NATURAL ENERGY LLC	0.125 OR GREATER	1544/102
WV-061-003595-001	MASON, ALENA LUE	NORTHEAST NATURAL ENERGY LLC	0.125 OR GREATER	1530/346
WV-061-003595-002	TENNANT, BILLIE JEAN	NORTHEAST NATURAL ENERGY LLC	0.125 OR GREATER	1530/332
WV-061-003595-003	MATHENY, REBECCA SUE	NORTHEAST NATURAL ENERGY LLC	0.125 OR GREATER	1530/152
WV-061-003599-001	SLAVENSKY, DONNA J.	NORTHEAST NATURAL ENERGY LLC	0.125 OR GREATER	1529/592
WV-061-003599-002	SEKULA, TONY JR. AND LISA	NORTHEAST NATURAL ENERGY LLC	0.125 OR GREATER	1530/298
WV-061-003599-003	WILLIAMS, LAWRENCE JOSEPH AND MARGARET ELIZABETH	NORTHEAST NATURAL ENERGY LLC	0.125 OR GREATER	1532/50
WV-061-002534-001	SHUMAN, INC	*CHESAPEAKE APPALACHIA LLC	0.125 OR GREATER	1429/366
WV-061-003408-001	WATKINS, TOMMY D.	NORTHEAST NATURAL ENERGY LLC	0.125 OR GREATER	1512/570
WV-061-003408-002	WATKINS, MACK	NORTHEAST NATURAL ENERGY LLC	0.125 OR GREATER	1512/723
WV-061-003408-003	WATKINS, DAVID	NORTHEAST NATURAL ENERGY LLC	0.125 OR GREATER	1501/612
WV-061-003408-004	WATKINS, ROBERT D. AND JANICE	NORTHEAST NATURAL ENERGY LLC	0.125 OR GREATER	1512/519
WV-061-003408-005	SIMS, DANIEL T.	NORTHEAST NATURAL ENERGY LLC	0.125 OR GREATER	1512/736
WV-061-003408-006	LARRY, RUTH ELLEN	NORTHEAST NATURAL ENERGY LLC	0.125 OR GREATER	1514/067
WV-061-003408-007	SELL, JOYCE	NORTHEAST NATURAL ENERGY LLC	0.125 OR GREATER	1512/562
WV-061-003408-008	WILSON, JUDY I. AND ROBERT	NORTHEAST NATURAL ENERGY LLC	0.125 OR GREATER	1514/086

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WV-061-003408-009	WATKINS, DOUGLAS D. AND JEAN	NORTHEAST NATURAL ENERGY LLC	0.125 OR GREATER	1512/697
WV-061-003408-010	GEISSINGER, CONNIE AND WAYNE	NORTHEAST NATURAL ENERGY LLC	0.125 OR GREATER	1512/594
WV-061-003408-012	COLEMAN, JANET	NORTHEAST NATURAL ENERGY LLC	0.125 OR GREATER	1512/572
WV-061-003408-013	FRITZ, KIM DAVID AND NANCY	NORTHEAST NATURAL ENERGY LLC	0.125 OR GREATER	1516/231
WV-061-003408-014	SIMS, JERRY E. AND JOYCE	NORTHEAST NATURAL ENERGY LLC	0.125 OR GREATER	1514/069
WV-061-003408-015	TENNANT, KENT S.	NORTHEAST NATURAL ENERGY LLC	0.125 OR GREATER	1513/149
WV-061-003408-016	TENNANT, STEPHEN A. AND MARCIA	NORTHEAST NATURAL ENERGY LLC	0.125 OR GREATER	1514/059
WV-061-003408-017	TENNANT, JOE S. AND KAREN	NORTHEAST NATURAL ENERGY LLC	0.125 OR GREATER	1512/574
WV-061-003408-018	TENNANT, D. RAY AND BARBARA	NORTHEAST NATURAL ENERGY LLC	0.125 OR GREATER	1515/847
WV-061-003408-019	ELLIS, EVA L. AND ROBERT	NORTHEAST NATURAL ENERGY LLC	0.125 OR GREATER	1516/225
WV-061-003408-020	BOHM, JEAN-CLARE SIMS	NORTHEAST NATURAL ENERGY LLC	0.125 OR GREATER	1514/077
WV-061-003408-021	SIMS, PHILIP J. AND VICKI	NORTHEAST NATURAL ENERGY LLC	0.125 OR GREATER	1515/841
WV-061-003408-022	CORTES, LISA	NORTHEAST NATURAL ENERGY LLC	0.125 OR GREATER	1516/227
WV-061-003408-023	TENNANT, TERESA LEIGH	NORTHEAST NATURAL ENERGY LLC	0.125 OR GREATER	1515/827
WV-061-003408-024	TENNANT, ROBERT W.	NORTHEAST NATURAL ENERGY LLC	0.125 OR GREATER	1516/233
WV-061-003408-025	TENNANT, JOSEPH B.	NORTHEAST NATURAL ENERGY LLC	0.125 OR GREATER	1516/235
WV-061-003408-026	TENNANT, NELLIE G.	NORTHEAST NATURAL ENERGY LLC	0.125 OR GREATER	1516/237
WV-061-003408-027	TENNANT, MARK M. AND JEAN I.	NORTHEAST NATURAL ENERGY LLC	DEED	1520/290
WV-061-003408-028	TENNANT, JOE S. AND KAREN	NORTHEAST NATURAL ENERGY LLC	DEED	1521/103
WV-061-003408-029	LUCKEY, CAROL A. AND DAVID M.	NORTHEAST NATURAL ENERGY LLC	0.125 OR GREATER	1521/127
WV-061-003408-030	SCHUSTER, SHARON K. AND CARL E.	NORTHEAST NATURAL ENERGY LLC	0.125 OR GREATER	1521/167
WV-061-003408-031	TENNANT, LEO KEITH AND LAURIE M.	NORTHEAST NATURAL ENERGY LLC	0.125 OR GREATER	1521/129
WV-061-003408-032	TENNANT, COLDENE B.	NORTHEAST NATURAL ENERGY LLC	0.125 OR GREATER	1521/161
WV-061-003408-033	TENNANT, MARION EMROD	NORTHEAST NATURAL ENERGY LLC	0.125 OR GREATER	1521/163
WV-061-003408-034	HUBER, BARBARA AND DAVE	NORTHEAST NATURAL ENERGY LLC	0.125 OR GREATER	1521/165
WV-061-003408-035	HARRISON, SHERRY L.	NORTHEAST NATURAL ENERGY LLC	0.125 OR GREATER	1521/736
WV-061-003408-036	HALBROOK, JACQUELYN M. AN DONALD R.	NORTHEAST NATURAL ENERGY LLC	0.125 OR GREATER	1521/596
WV-061-003408-037	MAIN, DONLEY CARR	NORTHEAST NATURAL ENERGY LLC	0.125 OR GREATER	1524/269
WV-061-003408-038	KIRBY, LORI AND GARY	NORTHEAST NATURAL ENERGY LLC	0.125 OR GREATER	1521/141
WV-061-003408-039	KRIDE, SANDRA K. AND WILLIAM S.	NORTHEAST NATURAL ENERGY LLC	0.125 OR GREATER	1524/252
WV-061-003408-040	TENNANT, SUE	NORTHEAST NATURAL ENERGY LLC	0.125 OR GREATER	1524/351
WV-061-003408-041	TENNANT, MARION LAVERN AND GINGER J.	NORTHEAST NATURAL ENERGY LLC	0.125 OR GREATER	1521/184
WV-061-003408-042	SWARTZ, CARL E. AND CHEVELLE L.	NORTHEAST NATURAL ENERGY LLC	0.125 OR GREATER	1524/469
WV-061-003408-043	WAGNER, PATRICIA JOANN	NORTHEAST NATURAL ENERGY LLC	0.125 OR GREATER	1539/425
WV-061-003492-001	TENNANT, JAN L. AND RICHARD COOPER	NORTHEAST NATURAL ENERGY LLC	DEED	1522/337
WV-061-003535-001	WATKINS, ROBERT D. AND JANICE A.	NORTHEAST NATURAL ENERGY LLC	DEED	1532/384
WV-061-003271-001	CHESAPEAKE APPALACHIA LLC	*CHESAPEAKE APPALACHIA LLC	0.125 OR GREATER	1487/244
WV-061-003271-002	STATOIL USA ONSHORE PROPERTIES INC.	*STATOIL USA ONSHORE PROPERTIES	0.125 OR GREATER	1488/744
WV-061-003274-001	CHESAPEAKE APPALACHIA LLC	*CHESAPEAKE APPALACHIA LLC	0.125 OR GREATER	1487/220
WV-061-003274-002	STATOIL USA ONSHORE PROPERTIES INC.	*STATOIL USA ONSHORE PROPERTIES	0.125 OR GREATER	1488/760
WV-061-003274-003	CHESAPEAKE APPALACHIA LLC	*CHESAPEAKE APPALACHIA LLC	0.125 OR GREATER	1487/240
WV-061-003278-001	CHESAPEAKE APPALACHIA LLC	*CHESAPEAKE APPALACHIA LLC	0.125 OR GREATER	1487/248
WV-061-003278-002	STATOIL USA ONSHORE PROPERTIES INC.	*STATOIL USA ONSHORE PROPERTIES	0.125 OR GREATER	1488/748
WV-061-003278-003	CHESAPEAKE APPALACHIA LLC	*CHESAPEAKE APPALACHIA LLC	0.125 OR GREATER	1487/236
WV-061-003278-004	STATOIL USA ONSHORE PROPERTIES INC.	*STATOIL USA ONSHORE PROPERTIES	0.125 OR GREATER	1488/725
WV-061-003278-005	CHESAPEAKE APPALACHIA LLC	*CHESAPEAKE APPALACHIA LLC	0.125 OR GREATER	1487/232
WV-061-003278-006	STATOIL USA ONSHORE PROPERTIES INC.	*STATOIL USA ONSHORE PROPERTIES	0.125 OR GREATER	1488/740
WV-061-003309-001	CHESAPEAKE APPALACHIA LLC	*CHESAPEAKE APPALACHIA LLC	0.125 OR GREATER	1487/228
WV-061-003309-002	STATOIL USA ONSHORE PROPERTIES INC.	*STATOIL USA ONSHORE PROPERTIES	0.125 OR GREATER	1488/752
WV-061-003314-001	MC MINERALS COMPANY LLC	*CHESAPEAKE APPALACHIA LLC	0.125 OR GREATER	1487/209
WV-061-003314-002	STATOIL USA ONSHORE PROPERTIES INC.	*STATOIL USA ONSHORE PROPERTIES	0.125 OR GREATER	1488/736
WV-061-001943-001	WILLARD, MARJORIE L.	*CHESAPEAKE APPALACHIA LLC	0.125 OR GREATER	1394/133
WV-061-001943-002	WILLARD, CLARENCE AND ANTOINETTE	NORTHEAST NATURAL ENERGY LLC	0.125 OR GREATER	1523/712
WV-061-001943-003	CORELY, BONNIE N.	NORTHEAST NATURAL ENERGY LLC	0.125 OR GREATER	1529/59
WV-061-001943-004	TENNANT, REX B. II	NORTHEAST NATURAL ENERGY LLC	0.125 OR GREATER	1538/548
WV-061-001943-005	TENNANT, SHERRIE L.	NORTHEAST NATURAL ENERGY LLC	0.125 OR GREATER	1538/336
WV-061-001943-006	CASPER, JODI M. AND DOUGLAS A.	NORTHEAST NATURAL ENERGY LLC	0.125 OR GREATER	1541/788

*See Attachment

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

|

Northeast Natural Energy
Assignment
BK 120/769

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West Augusta Resources, L.L.C.

Chesapeake Appalachia, L.L.C.
Assignment
Book 108 / Page 464

Statoil USA Onshore Properties Inc.
Assignment
Book 112 / Page 199
Correction - Book 113 / Page 139

Northeast Natural Energy LLC
Assignment
Book 120 / Page 769

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northeast
NATURAL ENERGY

May 24, 2016

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

RE: Fisher 2H, 4H, 6H and 8H

Dear Permit Reviewer:

Please be advised that Northeast Natural Energy LLC has the right to drill, extract and produce the minerals beneath the road identified as Days Run Road and Walnut Lane on the enclosed survey plat.

Sincerely,

Jeannie Morgan Johnson, CPL
Vice President – Land Operations

Enclosure

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WW-6AC
(1/12)

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

Date of Notice Certification: 05/31/2016

API No. 47- _____ - _____
Operator's Well No. Fisher 2H
Well Pad Name: Fisher

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

State:	West Virginia	UTM NAD 83 Easting:	567416.2
County:	Monongalia	Northing:	4394325.7
District:	Clay	Public Road Access:	State Route 218 (Daybrook Road)
Quadrangle:	Blacksville	Generally used farm name:	Fisher
Watershed:	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: *PLEASE CHECK ALL THAT APPLY	OOG OFFICE USE ONLY
☐ 1. NOTICE OF SEISMIC ACTIVITY or ☐ NOTICE NOT REQUIRED BECAUSE NO SEISMIC ACTIVITY WAS CONDUCTED	☐ RECEIVED/ NOT REQUIRED
☑ 2. NOTICE OF ENTRY FOR PLAT SURVEY or ☐ NO PLAT SURVEY WAS CONDUCTED	☐ RECEIVED
☑ 3. NOTICE OF INTENT TO DRILL or ☐ NOTICE NOT REQUIRED BECAUSE NOTICE OF ENTRY FOR PLAT SURVEY WAS CONDUCTED or ☐ WRITTEN WAIVER BY SURFACE OWNER (PLEASE ATTACH)	☐ RECEIVED/ NOT REQUIRED
☑ 4. NOTICE OF PLANNED OPERATION	☐ RECEIVED
☑ 5. PUBLIC NOTICE	☐ RECEIVED
☑ 6. NOTICE OF APPLICATION	☐ RECEIVED

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Environmental Protection

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

WW-6AC
(1/12)

Certification of Notice is hereby given:

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

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

NOTARY SEAL
OFFICIAL SEAL
STATE OF WEST VIRGINIA
NOTARY PUBLIC
Michael Eisenhauer
156 Meadowridge Townhomes
Morgantown, WV 26505
My Commission Expires Sep. 25, 2020

Hollie M. Medley

Subscribed and sworn before me this 1 day of June, 2016.

Michael Eisenhauer Notary Public

My Commission Expires September 25, 2020

Oil and Gas Privacy Notice:

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

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WV Department of
Environmental Protection

WW-6A
(9-13)

API NO. 47-_____-_____
OPERATOR WELL NO. Fisher 2H
Well Pad Name: Fisher

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: 5/17/2016 **Date Permit Application Filed:** 6/1/2016

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: 4706101751

☑ SURFACE OWNER(s)
Name: Please See Attachment
Address: _____

Name: _____
Address: _____

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

Name: _____
Address: _____

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

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

☐ COAL OPERATOR
Name: _____
Address: _____

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

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

*Please attach additional forms if necessary

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WV Department of
Environmental Protection

WW-6A
(8-13)

API NO. 47- _____ -
OPERATOR WELL NO. Fisher 2H
Well Pad Name: Fisher

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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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(8-13)

API NO. 47-_____-_____
OPERATOR WELL NO. Fisher 2H
Well Pad Name: Fisher

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- _____ - _____
OPERATOR WELL NO. Fisher 2H
Well Pad Name: Fisher

Notice is hereby given by:

Well Operator: Northeast Natural Energy LLC
Address: 707 Virginia Street E., Suite 1200
Charleston, WV 25301
Telephone: 304-212-0422
Email: hmedley@nne-llc.com
Facsimile: 304-241-5972

Oil and Gas Privacy Notice:

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

OFFICIAL SEAL
STATE OF WEST VIRGINIA
NOTARY PUBLIC
Michael Eisenhauer
156 Meadowridge Townhomes
Morgantown, WV 26505
My Commission Expires Sep. 25, 2020

Subscribed and sworn before me this 1 day of June 2016.

Michael Eisenhauer / _____ Notary Public

My Commission Expires September 25, 2020

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Surface Owner(s):

Aaron K. Fisher
2524 Paxton Street
Woodbridge, WV 22192

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

Aaron K. Fisher
2524 Paxton Street
Woodbridge, WV 22192

Mr. & Mrs. Donnie E. Simpson
993 Daybrook Road
Fairview, WV 26570

Mr. Donnie E. Simpson, Attorney in Fact
For Ms. Edna F. Simpson
993 Daybrook Road
Fairview, WV 26570

Richard L. Price
1047 Daybrook Road
Fairview, WV 26570

David A. Simpson
663 Daybrook Road
Fairview, WV 26570

47061017S1

Gary E. Simpson
67 McCoy Road
Fairview, WV 26570

Coal Owner or Lessee:

Consol Mining Company, LLC
Attn: Analyst
CNX Center
1000 Consol Energy Drive
Canonsburg, PA 15317

ERP Federal Mining Complex, LLC
1044 Miracle Run Road
Fairview, WV 26570

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Fisher 2H

Henry Peck Ames III
1985 Clinton Drive
Marietta, GA 30062

The Trustees for the Janet Elaine Fisher Living Trust
c/o Aaron K. Fisher
2524 Paxton Street
Woodbridge, VA 22192

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

Mr. Donnie E. Simpson, Attorney in Fact
For Ms. Edna F. Simpson
993 Daybrook Road
Fairview, WV 26570

John Basile
P.O. Box 194
Blacksville, WV 26521

Mr. & Mrs. Robert C. Wilson
P.O. Box 678
Buckeye Lake, OH 43008

Barbara Louise Rack
1181 Daybrook Road
Fairview, WV 26570

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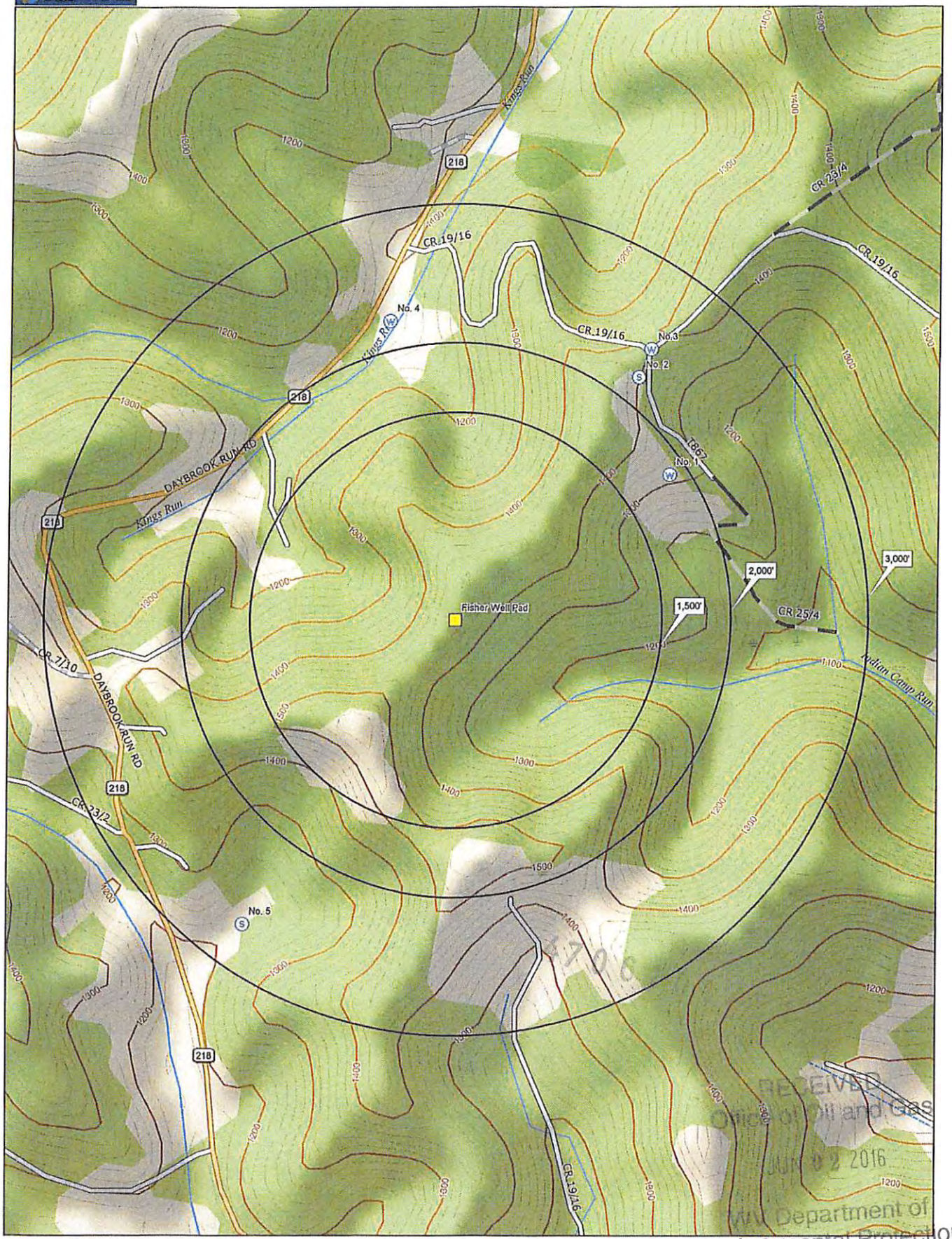

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Scale 1: 11,200

1" = 933.3 ft

Data Zoom 14-2

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WW-6A3
(1/12)

Operator Well No. Fisher

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: 5/20/2014 **Date of Planned Entry:** 5/26/2014

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:	West Virginia	Approx. Latitude & Longitude:	0567453.5, 4394416.2 (UTM)
County:	Monongalia	Public Road Access:	State Route 218
District:	Clay	Watershed:	Dunkard Creek
Quadrangle:	Blacksville USGS 7.5'	Generally used farm name:	Fisher

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

Notice is hereby given by:

Well Operator:	Northeast Natural Energy LLC	Address:	707 Virginia Street East, Suite 1200
Telephone:	304.414.7060		Charleston, WV 25301
Email:	hmedley@nne-llc.com	Facsimile:	304.414.7061

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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.

4/06701/5:

Notice of Entry for Plat Survey Spreadsheet

TMP	Surface Owner	Address
7-7, 8	Aaron K. Fisher	2524 Paxton Street, Woodbridge, VA 22192

TMP	Mineral Owner	Address
7-7,8	Henry P. Ames, III	1985 Clinton Drive, Marietta, GA 30062
7-7, 5	Shuman, Inc.	P.O. Box 842, Morgantown, WV 26507-0842
7-8	Linda Eddy	78 Peppermint Lane, Baltimore, MD 21220
7-8	Denzil Lemley	1424 Daybrook Road, Fairview, WV 26570
7-8	Raymond Brewer	P.O. Box 217, Blacksville, WV 26521
7-8	James Ross Shultz	P.O. Box 244, Blacksville, WV 26521
7-8	Dolores Meyers	106 Lisa Circle, York, PA, 17406
7-8	Artie Lemley	100 Main Street, Worthington, WV 26591
7-8	James E. Brewer	510 Aspen Drive, Colorado Springs, CO 80911
7-8	John Paul Fox	5507 Blackbeard Lane, New Bern, NC 28560
7-8	David L. Wilson	2829 North Park, Cleveland Heights, OH 44118-4030
7-8	Richard N. and Mary Ann Wilson	5605 Greenmont Place, Vienna, WV 26105-3291
7-8	Carol F. Lemley	P.O. Box 86, Blacksville, WV 26521
7-8	Charlotte Rexroad	707 Buffalo Brink Road, Mannington, WV 26582
7-8	Mary Mutter	435 Winter Road, New Castle, PA 16101
7-8	Shirley France	1940 South Lincoln #2, Salem, OH 44460
7-8	Donald Headley	75 Pike View Drive, Fairview, WV 26570
7-8	Barbara S. Strange	12 Avalon Court, #7, Mercer, PA 16137-5071
7-8	James Headley	52 Dawnson Road, Morgantown, WV 26501
7-8	Jennie Janes	Rt. 1 Box 155A, Fairmont, WV 26554
7-8	Naomi Perry	26 Orchard Street, Westover, WV 26505
7-8	Richard Headley	415 Schaaf Road, Cleveland, OH 44109
7-8	Ollie Gorman	2355 Lynmyra Drive, Fairmont, WV 26554
7-8	Joseph T. Mercer	HC 62 Box 112, Burton, WV 26562
7-8	Loruma B. Brokaw	68319 Morristown Flushing Road, Bellmont, OH 43718
7-8	Debra F. Jones	930 Paxford Place, Mansfield, OH 44906
7-8	Janet D. Crabtree	13993 Butternut Road, Burton, OH 44021
7-8	John C. and Pauline Jones	35305 Jones Road, Freeport, OH 43973
7-8	Alberta R. Jones	2732 Miracle Run Road, Fairview, WV 26570
7-8	Billy Wayne Jones	2732 Miracle Run Road, Fairview, WV 26570
7-8	Sherry Maxwell	1234 Rivershore Drive, Fairmont, WV 26554
7-8	David A. Jones	30025 Old Smyrna Road, Freeport, OH 43973
7-8	Patricia K. Mallernee	399 Heritage, Gnadenhutten, OH 44629
7-8	Connie J. Simplican	2403 South Atlantic #501, Daytona Beach, FL 32118
7-8	Thomas D. Jones	403 Burrell Avenue, Freeport, OH 43973
7-8	Loretta J. Yost	106 Babbling Brook, Morgantown, WV 26508
7-8	Trisha Jones	3551 Eichel Road SW, New Philadelphia, OH 44663
7-8	Gary C. Jones	29805 Old Smyrna Road, Freeport, OH 43973
7-8	Mary Brewer Hall	448 Wyoming Avenue, Paw Paw, IL 61353
7-8	Jean Wernette	9920 Pointe Drive, Mecosta, MI 49332

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7-8	Steve Jones	84125 Wallace Road, Cadiz, OH 43907
7-8	Almeada J. Eddy	726 Long Street, Bridgeport, WV 26330
7-8	Pauline Gee	409 North Garfield Street, Bloomdale, OH 44817
7-8	Anne Yvonne Hando and John Hando	715 Vermont Avenue, Fairmont, WV 26554
7-8	Rebecca Bonfili	864 Vandalia Road, Morgantown, WV 26505
7-8	Fred B. and Doris Mercer	4211 Crossroads Road, Fairview, WV 26570
7-8	David Mercer	P.O. Box 195, Fairview, WV 26570
7-8	Helen L. Suder and Milford B. Suder	Rt. 2 Box 97, Rivesville, WV 26588
7-8	Thornton and Alberta Merrifield	P.O. Box 130, Blacksville, WV 26521
7-8	Sally Jo and Gerald W. Hatfield	3359 Braeswood Court, Augusta, GA 30909
7-8	Mark R. and Cynthia Haught	4761 Medicine Man Road, Pah Rump, NV 89048
7-8	Joni L. and James V. Vugrinec	24387 North Dockside Lane, Rathdrum, ID 83858
7-8	Andy Lee and Lisa E. Haught	2640 Colorado Drive, Green River, WY 82935
7-8	Thomas L. Phillips	2818 O'Donnell Street, Baltimore, MD 21224
7-8	Anthony M. Phillips	119 Adams Ferry Street, Brookneal, VA 24528
7-8	Joseph Thomas Wharton	404 Broaddus Avenue, Clarksburg, WV 26301
7-8	Kyle and Paula Lemley	1564 Daybrook Road, Fairview, WV 26570
7-5	Edna Simpson	993 Daybrook Road, Fairview, WV 26570
7-10.1	Lorita Marie Zastrow & Steven R. Zastrow	3737 School Road, Murrysville, PA 15668
7-10.1	Doris Mae Henry	256 County Road 13 West, Bellefontaine, OH 43311
7-10.1	Linda Lorraine Makin & James Earl Makin	333 Clements Road, Pittsburgh, PA 15239
7-10.1	Keith Henry and Ida Henry	355 West Center Street, West Mansfield, OH 43358
7-10.1	Betty Fultz & Daniel Fultz	172 Terrene Drive, Bellefontaine, OH 43311
7-10.1	Ernest Leroy Sine	518 Cooper Avenue, Bellefontaine, OH 43311

TMP	Coal Owner	Address
7-7, 8, 10.1	Consolidation Coal Company, Engineering & Operations Support - Coal; Attn: Analyst	1000 Consol Energy Drive, Canonsburg, PA 15317

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WW-6A4
(1/12)

Operator Well No. Fisher 2H

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: 05/17/2016 **Date Permit Application Filed:** 06/01/2016

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

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☐ 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: Aaron K. Fisher
Address: 2524 Paxton Street
Woodbridge, VA 22192

Name:
Address:

Notice is hereby given:

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

State: West Virginia
County: Monongalia
District: Clay
Quadrangle: Blacksville
Watershed: Dunkard Creek

UTM NAD 83 Easting: 567416.2
Northing: 4394325.7
Public Road Access: State Route 218 (Daybrook Road)
Generally used farm name: Fisher

This Notice Shall Include:

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

Notice is hereby given by:

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

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

Oil and Gas Privacy Notice:

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

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WW-6A5
(1/12)

Operator Well No. Fisher 2H

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: 05/17/2016 **Date Permit Application Filed:** 06/01/2016

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

4700101751

☒ CERTIFIED MAIL RETURN RECEIPT REQUESTED ☐ HAND 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: Please See Attachment
Address:

Name:
Address:

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:	West Virginia	UTM NAD 83 Easting:	567416.2
County:	Monongalia	Northing:	4394325.7
District:	Clay	Public Road Access:	State Route 218 (Daybrook Road)
Quadrangle:	Blacksville	Generally used farm name:	Fisher
Watershed:	Dunkard Creek		

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

Well Operator:	Northeast Natural Energy LLC	Address:	707 Virginia Street East, Suite 1200
Telephone:	304-212-0422		Charleston, WV 25301
Email:	hmedley@nne-llc.com	Facsimile:	304-241-5972

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

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JUN 02 2016
WV Department of
Environmental Protection

Surface Owner(s):

Aaron K. Fisher
2524 Paxton Street
Woodbridge, WV 22192

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

4706101751

Aaron K. Fisher
2524 Paxton Street
Woodbridge, WV 22192

Mr. & Mrs. Donnie E. Simpson
993 Daybrook Road
Fairview, WV 26570

Mr. Donnie E. Simpson, Attorney in Fact
For Ms. Edna F. Simpson
993 Daybrook Road
Fairview, WV 26570

Richard L. Price
1047 Daybrook Road
Fairview, WV 26570

David A. Simpson
663 Daybrook Road
Fairview, WV 26570

Gary E. Simpson
67 McCoy Road
Fairview, WV 26570

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WV Department of
Environmental Protection

WW-6AW
(1-12)

API NO. 47- _____ - _____
OPERATOR WELL NO. Fisher 2H
Well Pad Name: Fisher

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

VOLUNTARY STATEMENT OF NO OBJECTION

Instructions to Persons Named on Page WW-6A
The well operator named on page WW-6A is applying for a permit from the State of West Virginia to conduct oil or gas well work. Well work permits are valid for twenty-four (24) months. Please contact the listed well operator and the Office of Oil and Gas if you do not own any interest in the listed surface tract.

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

Pursuant to West Virginia Code § 22-6A-8(b) No permit may be issued less than thirty days after the filing date of the application for any well work except plugging or replugging; and no permit for plugging or replugging may be issued less than five days after the filing date of the application except a permit for plugging or replugging a dry hole: *Provided,* That if the applicant certifies that all persons entitled to notice of the application under the provisions of subsection (b), section ten of this article have been served in person or by certified mail, return receipt requested, with a copy of the well work application, including the erosion and sediment control plan, if required, and the well plat, and further files written statements of no objection by all such persons, the secretary may issue the well work permit at any time.

VOLUNTARY STATEMENT OF NO OBJECTION

I, Gary E Simpson, hereby state that I have read the Instructions to Persons Named on Page WW-6A and the associated provisions listed above, and that I have received copies of a Notice of Application, an Application for a Well Work Permit on Form WW-6A and attachments consisting of pages one (1) through 8, including the erosion and sediment control plan, if required, and the well plat, all for proposed well work on the tract of land as follows:

State:	West Virginia	UTM NAD 83 Easting:	567416.2
County:	Monongalia	Northing:	4394325.7
District:	Clay	Public Road Access:	State Route 218 (Daybrook Road)
Quadrangle:	Blacksville	Generally used farm name:	Fisher
Watershed:	Dunkard Creek		

I further state that I have no objection to the planned work described in these materials, and I have no objection to a permit being issued on those materials.

*Please check the box that applies

- ☐ SURFACE OWNER
- ☒ SURFACE OWNER (Road and/or Other Disturbance)
- ☐ SURFACE OWNER (Impoundments/Pits)
- ☐ COAL OWNER OR LESSEE
- ☐ COAL OPERATOR
- ☐ WATER PURVEYOR
- ☐ OPERATOR OF ANY NATURAL GAS STORAGE FIELD

FOR EXECUTION BY A NATURAL PERSON
Signature: Gary C. Simpson
Print Name: Gary E. Simpson Gary E Simpson
Date: _____

FOR EXECUTION BY A CORPORATION, ETC.
Company: _____
By: _____
Its: _____

Signature: _____
Date: _____

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

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Office of Oil and Gas
JUN 02 2016
WV Department of
Environmental Protection

WW-6AW
(1-12)

API NO. 47-_____-_____
OPERATOR WELL NO. Fisher 2H
Well Pad Name: Fisher

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

VOLUNTARY STATEMENT OF NO OBJECTION

Instructions to Persons Named on Page WW-6A
The well operator named on page WW-6A is applying for a permit from the State of West Virginia to conduct oil or gas well work. Well work permits are valid for twenty-four (24) months. Please contact the listed well operator and the Office of Oil and Gas if you do not own any interest in the listed surface tract.

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

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VOLUNTARY STATEMENT OF NO OBJECTION

I, Richard Price, hereby state that I have read the Instructions to Persons Named on Page WW-6A and the associated provisions listed above, and that I have received copies of a Notice of Application, an Application for a Well Work Permit on Form WW-6A and attachments consisting of pages one (1) through 8, including the erosion and sediment control plan, if required, and the well plat, all for proposed well work on the tract of land as follows:

State:	West Virginia	UTM NAD 83 Easting:	567416.2
County:	Monongalia	Northing:	4394325.7
District:	Clay	Public Road Access:	State Route 218 (Daybrook Road)
Quadrangle:	Blacksville	Generally used farm name:	Fisher
Watershed:	Dunkard Creek		

4706101775

I further state that I have no objection to the planned work described in these materials, and I have no objection to a permit being issued on those materials.

*Please check the box that applies

- ☐ SURFACE OWNER
- ☒ SURFACE OWNER (Road and/or Other Disturbance)
- ☐ SURFACE OWNER (Impoundments/Pits)
- ☐ COAL OWNER OR LESSEE
- ☐ COAL OPERATOR
- ☐ WATER PURVEYOR
- ☐ OPERATOR OF ANY NATURAL GAS STORAGE FIELD

FOR EXECUTION BY A NATURAL PERSON
Signature: Richard L Price
Print Name: Richard L. Price
Date: 5-23-16

FOR EXECUTION BY A CORPORATION, ETC.
Company: _____
By: _____
Its: _____
Signature: _____
Date: _____

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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WV Department of
Environmental Protection

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

April 24, 2015

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 Fisher Pad, Monongalia County
Fisher 2H

Dear Dr. Martin,

Northeast Natural Energy LLC has applied for permits #04-2014-0505 & 04-2014-0507 to access the State Road for a well site located off of West Virginia Route 218.

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,

4706101755

Gary K. Clayton

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

Trade Name	Purpose	Ingredients	Chemical Abstract Service Number (CAS#)
Water	Carrier	Water	7732-18-5
HCl, 10.1-15%	Acidizing	Hydrochloric Acid Water	7647-01-0 7732-18-5
Alpha 1427	Biocide	Alkyl Dimethyl Benzyl Ammonium Chloride (C12-16) Ethanol Glutaraldehyde Quaternary Ammonium Chloride Water	68424-85-1 64-17-5 111-30-8 7173-51-5 7732-18-5
Enzyme G-NE	Breaker	Hemicellulase Enzyme Concentrate Water	9025-56-3 7732-18-5
CI-14	Corrosion Inhibitor	Fatty Acids Methanol Olefin Polyoxyalkylenes Propargyl Alcohol	N.A. 67-56-1 N.A. N.A. 107-19-7
FRW-18	Friction Reducer	Hydrotreated Light Distillate	64742-47-8
GW-3LDF	Gelling Agent	Guar Gum Petroleum Distillate Blend	9000-30-0 CBI
Ferrotrol 300L	Iron Control	Citric Acid	77-92-9
Sand, White, 40/70	Proppant	Crystalline Silica (Quartz)	14808-60-7
Sand, White, 100 mesh	Proppant	Crystalline Silica (Quartz)	14808-60-7
Scaletrol 720	Scale Inhibitor	Diethylene Glycol	111-46-6

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FISHER WELL PAD
CLAY DISTRICT, MONONGALIA COUNTY, WV
OCTOBER 2015
REVISED NOVEMBER 2015

47061017

WEST VIRGINIA 811

TWO WORKING DAYS PRIOR TO EXCAVATION, THE CONTRACTOR MUST CONTACT THE WV ONE CALL SYSTEM, INC., 1-800-245-4848
(WV ONE CALL TICKET#1404402841)

OWNER

northeast
NATURAL ENERGY

NORTHEAST NATURAL ENERGY, LLC
707 VIRGINIA STREET SUITE 1200
CHARLESTON, WV 253 01

APPROVED
WVDEP OOG
12/1/2015

SHEET INDEX

1. TITLE SHEET
2-3. EVACUATION ROUTE/PREVAILING WIND
4. E&S CONTROL LAYOUT OVERVIEW
5-7. E&S CONTROL LAYOUT
8. E&S CONTROL AND SITE PLAN OVERVIEW
9-11. E&S CONTROL AND SITE PLAN
12. WELL PAD CROSS-SECTIONS AND PROFILES C-C',D-D' AND E-E'
13. EXISTING ACCESS ROAD,ACCESS ROAD #1 AND ACCESS ROAD #2 PROFILE
14-16. EXISTING ACCESS ROAD CROSS-SECTIONS
17-19. ACCESS ROAD #1 AND #2 CROSS-SECTIONS
20-22. DETAIL SHEET
23. RECLAMATION PLAN OVERVIEW
24-26. RECLAMATION PLAN
27. SLOPE STABILIZATION PLAN

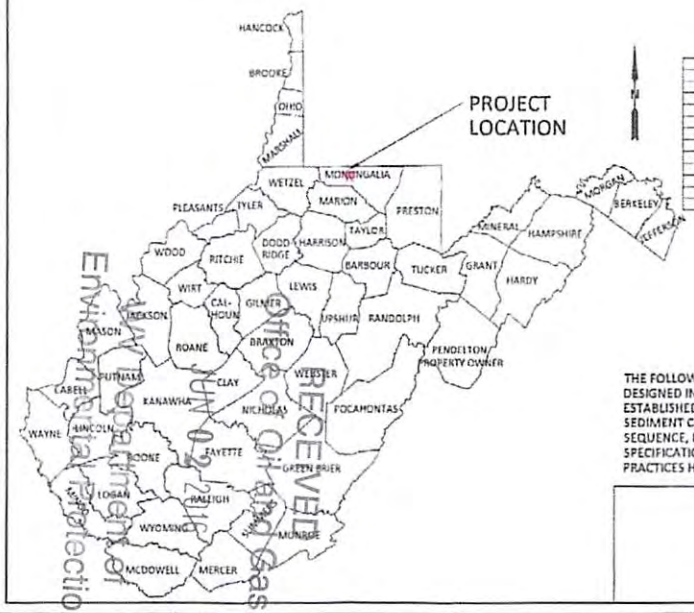
TOTAL DISTURBED AREA: 26.9 AC.
ACCESS ROAD #1 DISTURBED AREA: 15.6 AC.
ACCESS ROAD #2 DISTURBED AREA: 1.6 AC.
WELL PAD DISTURBED AREA: 9.7 AC.

PLANS PREPARED BY:

BOORD BENCHEK & ASSOCIATES, INC.
ENGINEERING,SURVEYING, CONSTRUCTION AND MINING SERVICES
SOUTHPOINTE, PA 15317 PHONE: 724-746-1055

10-20-15

ANDREW BENCHEK
P.E.



PROPERTY OWNER PROJECT BOUNDARY ACREAGE

PROPERTY OWNER	PARCEL #	ACRES
DONNIE E. & SHARON K SIMPSON	4-8-21.2	0.2
DONNIE E. & SHARON K SIMPSON	4-8-23.1	0.1
DONNIE F. SIMPSON	4-8-23.2	0.9
RICHARD L. PRICE	4-8-24	1.4
AARON K. & JANET E. FISHER	4-8-25	4.1
JANET ELAINE FISHER & AARON KONRAD FISHER LIVING TRUST	4-8-26	5.2
AARON K. & JANET E. FISHER	4-7-6	7.4
JANET ELAINE FISHER & AARON KONRAD FISHER LIVING TRUST	4-7-8	3.7
AARON K. & JANET E. FISHER	4-7-7	6.6
NORTHEAST NATURAL ENERGY LLC	4-7-10.3	2.2
DAVID A. SIMPSON & DONNIE ERMAN ET AL	4-7-5	1.3
TOTAL		26.9 ACRES

IN ACCORDANCE WITH WV 35 CSR 8
THE FOLLOWING EROSION & SEDIMENT CONTROL PLAN HAS BEEN DESIGNED IN ACCORDANCE WITH BEST MANAGEMENT PRACTICES ESTABLISHED BY THE CHIEF AND PROVIDED IN THE OFFICE'S EROSION AND SEDIMENT CONTROL FIELD MANUAL. A GENERAL CONSTRUCTION SEQUENCE, DESCRIPTION OF STABILIZATION METHODS, AND DETAILS & SPECIFICATIONS FOR EROSION & SEDIMENT BEST MANAGEMENT PRACTICES HAVE BEEN INCLUDED IN THE PROVIDED DETAIL SHEETS.

COORDINATES

CENTER OF WELLS
(NAD 83)
LAT: 39° 41' 46.0"
LONG: 80° 12' 49.3"
(NAD 27)
LAT: 39° 41' 46.0"
LONG: 80° 12' 50.1"

SITE ENTRANCE
(NAD 83)
LAT: 39° 41' 42.2"
LONG: 80° 13' 22.4"
(NAD 27)
LAT: 39° 41' 41.9"
LONG: 80° 13' 23.1"

1"=2000'

TITLE SHEET	SHEET
FISHER WELL PAD CLAY DISTRICT, MONONGALIA COUNTY, WV	1 OF 27

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Environmental Protection

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JUN 02 2016
WV Department of
Environmental Protection

Northeast Natural Energy LLC Mine Contingency Plan

On all wells drilled, Northeast Natural Energy LLC ("NNE") has contingency strategies in place should an unanticipated void or mine be encountered while drilling the surface section of the well. If encountered, any accumulated gases will be diverted a safe distance away from the drilling operations through the blooey line and/or flare.

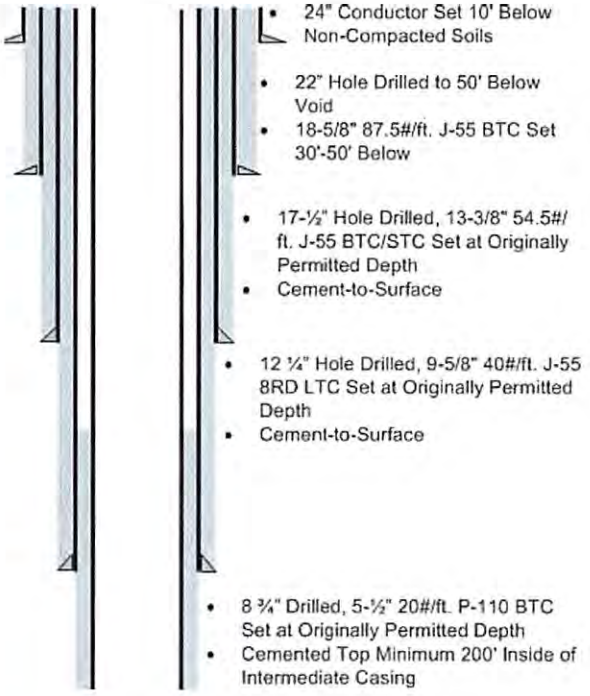
All casings programs submitted to the state incorporate the use of a 24" conductor over the previously used 20" that has long been the industry standard for a typical Marcellus design. The use of 24" conductor casing allows the use of a 22" bit to ream the surface hole, and drill 50' below the void to run a string of 18-5/8" 87.50#/ft J-55 through the section when needed.

The 18-5/8" would be set 30-50' below the void with cement baskets placed directly above and below. The section of pipe below the void would be cemented using the balance method with 100% excess. The section above the void would be cemented separately by using remedial top fill techniques and 30% excess.

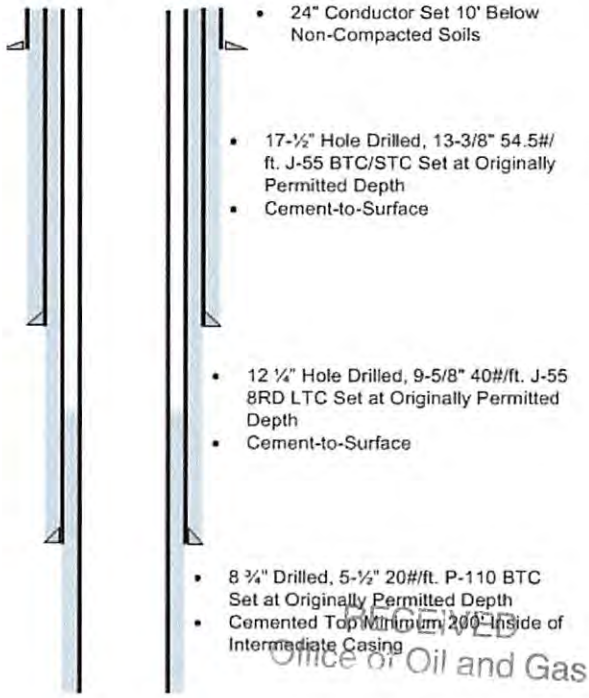
With the use of these string sizes and techniques, the surface and intermediate strings do not need to be altered. After a proper WOC time, the surface section of the well would continue to be drilled with a 17-1/2" bit and the 13-3/8" 54.50#/ft freshwater casing would be set at the originally permitted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

The diagram below visually shows the alternative casing plan should an unanticipated void be encountered.

Casing Schematic w/ Mine String



Casing Schematic w/o Mine String



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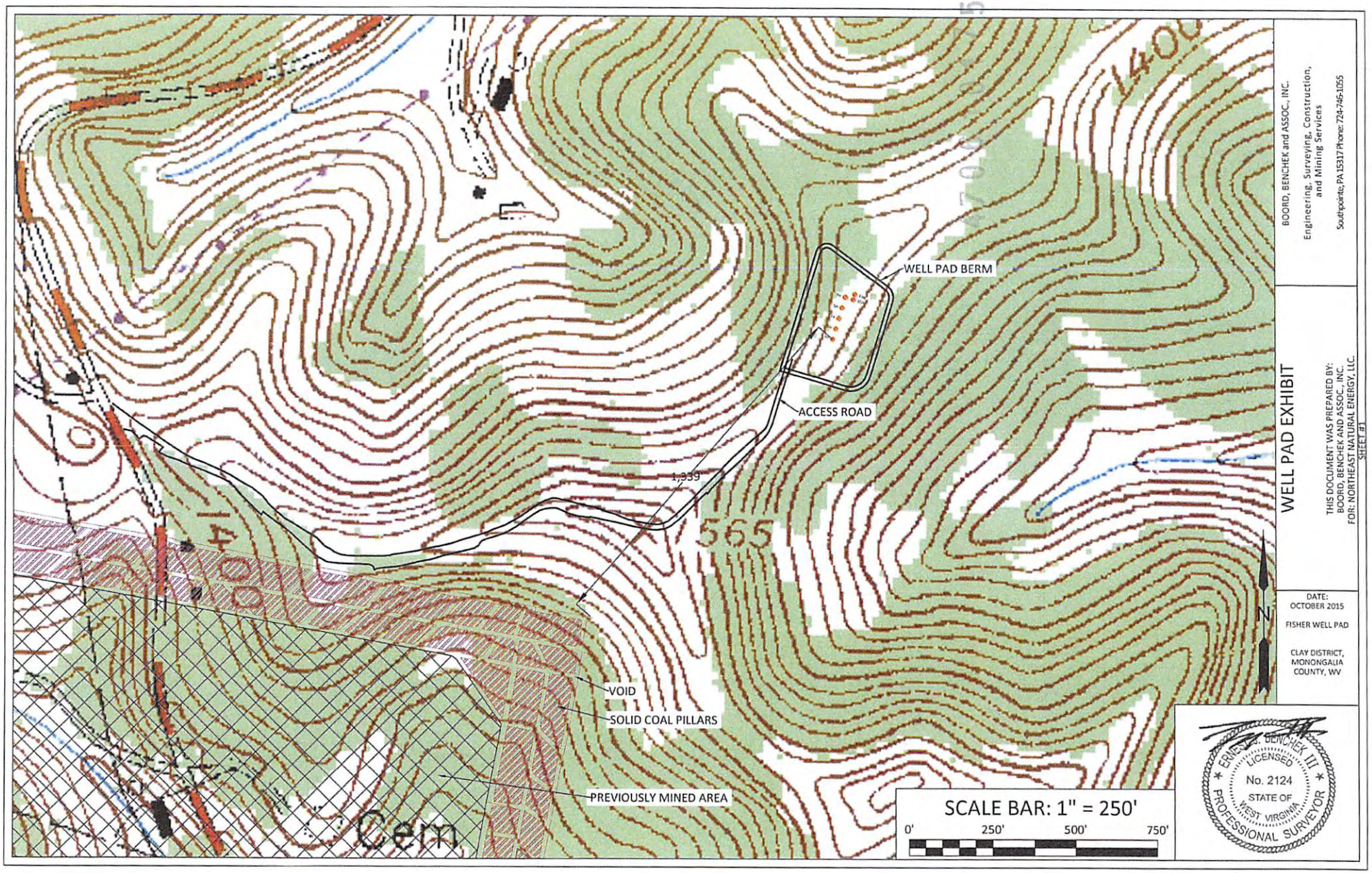

BOORD, BENCHEK and ASSOC., INC.
Engineering, Surveying, Construction, and Mining Services
Southpointe, PA 15317 Phone: 724-746-1055

WELL PAD EXHIBIT

THIS DOCUMENT WAS PREPARED BY:
BOORD, BENCHEK AND ASSOC., INC.
FOR: NORTHEAST NATURAL ENERGY, LLC.

SHEET #1

DATE:
OCTOBER 2015

FISHER WELL PAD

CLAY DISTRICT,
MONONGALIA
COUNTY, WV

ERNEST G. BENCHEK III
LICENSED
No. 2124
STATE OF
WEST VIRGINIA
PROFESSIONAL SURVEYOR