



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

Austin Caperton, Cabinet Secretary
www.dep.wv.gov

Monday, January 27, 2020
WELL WORK PERMIT
Horizontal 6A / New Drill

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

Re: Permit approval for MICHAEL 5H
47-061-01863-00-00

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: MICHAEL 5H
Farm Name: WILLIAM F. MICHAEL JR.
U.S. WELL NUMBER: 47-061-01863-00-00
Horizontal 6A New Drill
Date Issued: 1/27/2020

PERMIT CONDITIONS

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

CONDITIONS

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. 24 hours prior to the initiation of the completion process the operator shall notify the Chief or his designee.
8. During the completion process the operator shall monitor annular pressures and report any anomaly noticed to the chief or his designee immediately.
9. If any explosion or other accident causing loss of life or serious personal injury occurs in or about a well or well work on a well, the well operator or its contractor shall give notice, stating the particulars of the explosion or accident, to the oil and gas inspector and the Chief, within 24 hours of said accident.
10. During the casing and cementing process, in the event cement does not return to the surface, the oil and gas inspector shall be notified within 24 hours.

API Number: _____

PERMIT CONDITIONS

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

WW-6B
(04/15)

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OCT 15 2019

API NO. 47- _____

OPERATOR WELL NO. 5H

Well Pad Name: Michael

WV Department of
Environmental Protection

STATE OF WEST VIRGINIA

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

1) Well Operator: Northeast Natural Energy 494498281 Monongalia Clay Blacksville
Operator ID County District Quadrangle

2) Operator's Well Number: 5H Well Pad Name: Michael

3) Farm Name/Surface Owner: William F. Michael Jr. Public Road Access: Statler Run Rd/SR 27

4) Elevation, current ground: 1,500' Elevation, proposed post-construction: 1,360'

5) Well Type (a) Gas Oil _____ Underground Storage _____

Other _____

(b) If Gas Shallow Deep _____

Horizontal

6) Existing Pad: Yes or No No

MOK 10/9/2019

7) Proposed Target Formation(s), Depth(s), Anticipated Thickness and Expected Pressure(s):
Marcellus, 8,111' (GL), 104', 4500 psi

8) Proposed Total Vertical Depth: 8,111' (GL)

9) Formation at Total Vertical Depth: Marcellus

10) Proposed Total Measured Depth: 16,304'

11) Proposed Horizontal Leg Length: 7,640'

12) Approximate Fresh Water Strata Depths: 100', 1275' (GL)

13) Method to Determine Fresh Water Depths: Drillers Log from Offset Wells

14) Approximate Saltwater Depths: 1700', 2394' (GL)

15) Approximate Coal Seam Depths: 679', 736', 953', 1032' (GL)

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

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

(a) If Yes, provide Mine Info: Name: _____

Depth: _____

Seam: _____

Owner: _____

WW-6B
(04/15)

OCT 15 2019

API NO. 47- _____
OPERATOR WELL NO. 5H _____
Well Pad Name: Michael _____

WV Department of
Environmental Protection
CASING AND TUBING PROGRAM

18)

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 (GL)	40	45/GTS
Fresh Water	13-3/8	New	J-55	54.5	1455 (GL)	1425	1040/CTS
Coal							
Intermediate	9-5/8	New	J-55	36	2660 (GL)	2630	914/CTS
Production	5-1/2	New	P-110	20	16,713 (KB)	16,663 (KB)	3342/ TOC @ 2200'
Tubing	2-7/8	New	P-110	6.5	NA	8500	NA
Liners							

MJK 10/9/2019

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	28	0.375	NA	NA	Type 1	1.18
Fresh Water	13-3/8	17-1/2	0.380	2730	500	Class A	1.19
Coal							
Intermediate	9-5/8	12-3/8	0.395	3520	2800	Class A	1.19
Production	5-1/2	8-1/2	0.361	14,360	11,500 (frac)	50:50 POZ	1.07
Tubing	2-7/8	NA	0.217	13,870	NA	NA	NA
Liners							

PACKERS

Kind:	NA			
Sizes:				
Depths Set:				

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(10/14)

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API NO. 47- _____

OPERATOR WELL NO. 5H _____

Well Pad Name: Michael _____

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WV Department of
Environmental Protection

19) Describe proposed well work, including the drilling and plugging back of any pilot hole:

Utilize auger rig to set cellar & conductor. The conductor will be grouted with cement to surface. Mobilize top hole drilling rig. Drill surface section on air. Run surface (freshwater & coal string) casing to desired depth. The surface section will not penetrate sea level. Surface casing will be cemented to surface. Drill intermediate section on air. Run intermediate casing to desired depth. Intermediate casing will be cemented to surface. Drill on air the production section to the start of the curve (KOP). The well will be loaded with synthetic oil base drilling mud (SOBM). Demobilize top hole rig. Mobilize horizontal drilling rig. Finish drilling the production section utilizing MWD surveys and geosteering practices to maintain the wellbore in the Marcellus shale and prevent anti-collision. Production casing will be ran to TD and cement top will be inside the intermediate casing.

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

A cement bond log will determine the top of production casing cement. The production casing will be pressure tested. The hydraulic fracturing equipment will then open the toe sleeves and begin pumping the first stage. The plug-and-perf method will be used for the remaining stages. The max anticipated pressure during frac is 11,500psi and a max rate of 90bpm. After frac, the drillout rig will drill all plugs out of the well. Land production tubing at desired depth. Then flowback well until ready to turn in line to production facilities.

21) Total Area to be disturbed, including roads, stockpile area, pits, etc., (acres): 72.20

22) Area to be disturbed for well pad only, less access road (acres): 20.99

23) Describe centralizer placement for each casing string:

Surface: shoe track & every 3rd joint to surface
Intermediate: shoe track & every 3rd joint to surface
Production: Rigid bow centralizers at shoe track & every other joint in the lateral to KOP. Traditional bow springs from KOP to surface every third joint.

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

Surface string cement will be a Type 1 + Max 3% bwoc Calcium Chloride Fresh Water blend.
Intermediate string cement will be a Type 1 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 & intermediate on air will utilize high volumetric flow rates of air to ensure the wellbore is clean prior to TOH.
Production section will utilize synthetic oil based drilling mud to properly clean the wellbore. At TD, pump rate and rotation will be maximized and tripping will not begin until shakers flow clean.
Production casing will be circulated prior to cementing to ensure a prepared wellbore for cement.

*Note: Attach additional sheets as needed.

NORTHEAST NATURAL ENERGY, LLC

Location: Monongalia County, WV Slot: Slot 5H
 Field: Monongalia Well: Michael 5H
 Facility: Michael Pad Wellbore: Michael 5H PWB



Plot reference wellpath is Michael 5H PWP Ex-02	Grid System: NAD83 / Lambert West Virginia SP, Northern Zone (4701), US feet
True vertical depths are referenced to Patterson 334 (KB)	North Reference: Grid north
Measured depths are referenced to Patterson 334 (KB)	Scale: True distance
Patterson 334 (KB) to Mean Sea Level: 1485 feet	Depths are in feet
Mean Sea Level to Ground level (At Slot: Slot 5H): -1480 feet	Created by: stjenjen on 2019-09-20
Coordinates are in feet referenced to Slot	Database: WA_MPL_EASTERNUS_Defn

Location Information						
Facility Name	Grid East (US ft)	Grid North (US ft)	Latitude	Longitude		
Michael Pad	1775912.200	410686.700	39°37'31.940"N	80°11'01.466"W		
Slot	Local N (ft)	Local E (ft)	Grid East (US ft)	Grid North (US ft)	Latitude	Longitude
Slot 5H	-74.47	29.16	1775941.360	410612.230	39°37'31.206"N	80°11'01.086"W
Patterson 334 (KB) to Ground level (At Slot: Slot 5H)			25ft			
Mean Sea Level to Ground level (At Slot: Slot 5H)			-1460ft			
Patterson 334 (KB) to Mean Sea Level			1485ft			

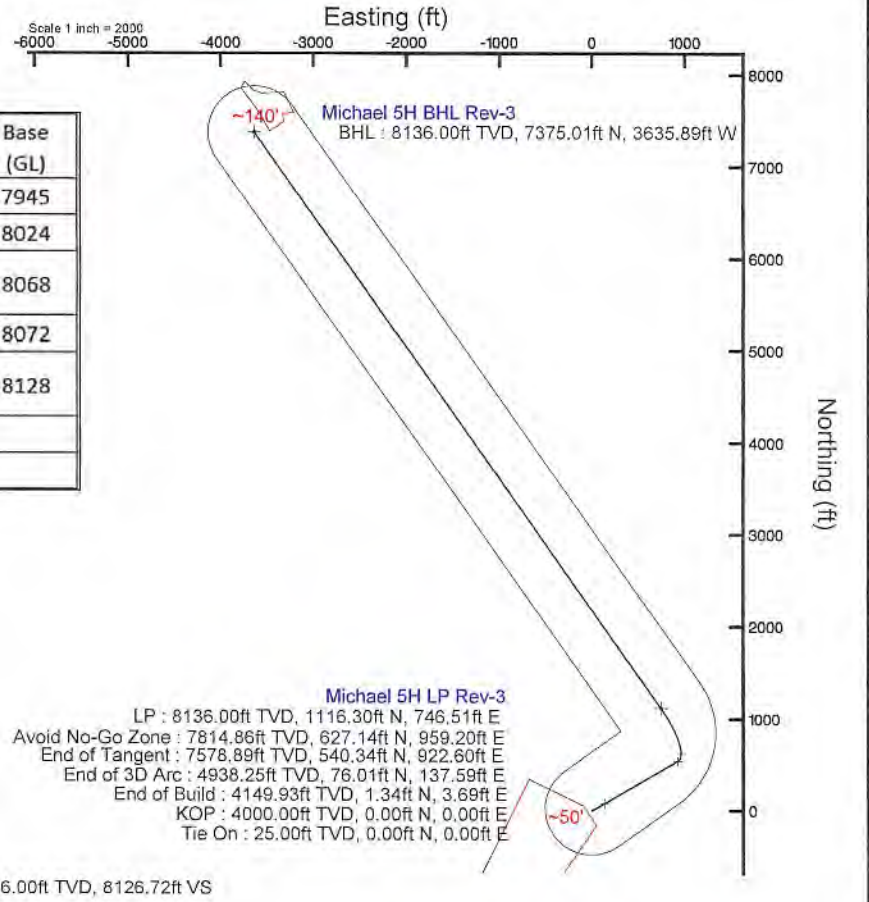
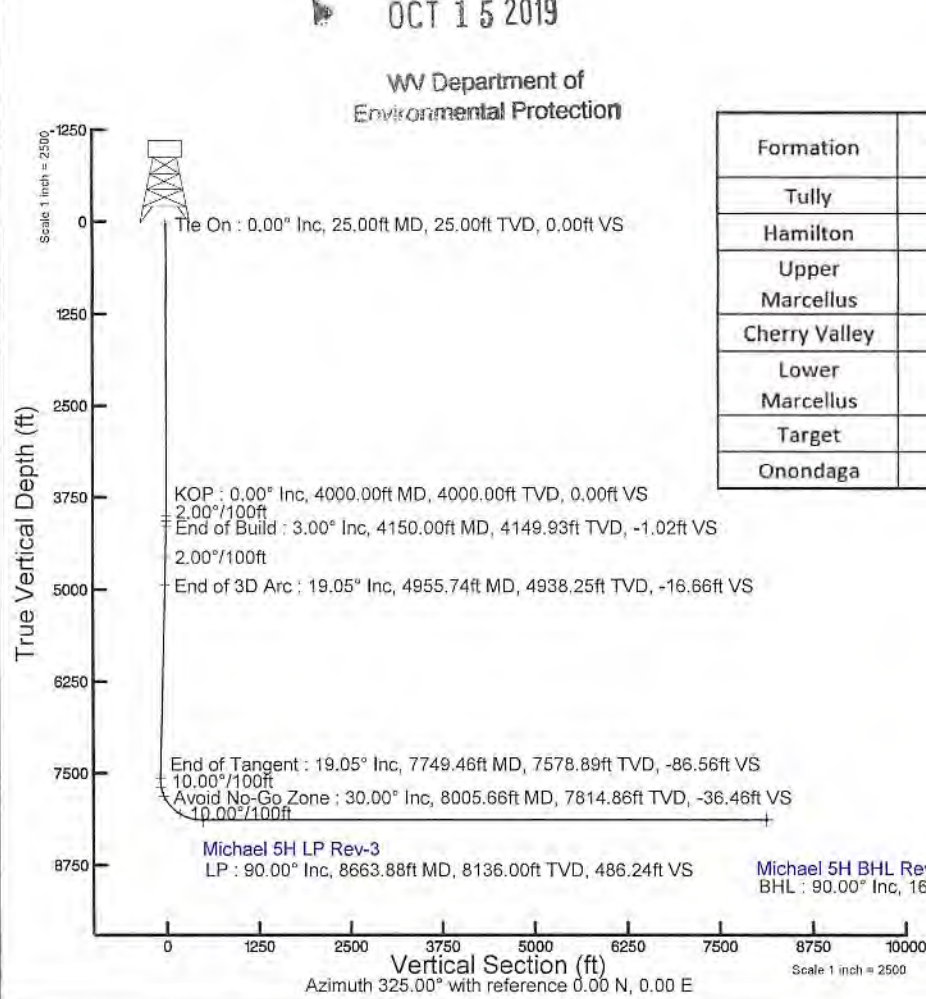
Casing Type	Hole Size	Casing Size	Grade	Weight	Casing Depth (GL)
Conductor	28"	24"	N/A	N/A	40
Surface	17.5"	13.375"	J-55	54.5	1270
Intermediate	12.25"	9.675"	J-55	36	2700

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Formation	Top (GL)	Base (GL)
Tully	7864	7945
Hamilton	7945	8024
Upper Marcellus	8024	8068
Cherry Valley	8068	8072
Lower Marcellus	8072	8128
Target	8111	
Onondaga	8128	



4706:01863

MJK 10/9/2019

MICHAEL 5H AREA OF REVIEW

API Number	Well Name	Well Number	Operator	Latitude (NAD 83)	Longitude (NAD 83)	TMP	Notes
061-00534	NA	9 (M1-491)	CONSOLIDATION COAL COMPANY	39.615655	-80.301779	4-20-59	Plugged 4/22/92
061-01052	NA	M1-491	CONSOLIDATION COAL COMPANY	39.635459	-80.188680	4-20-60	Plugged 4/22/92
061-00929	NA	M1-497	CONSOLIDATION COAL COMPANY	39.637284	-80.189547	4-20-24	Plugged 1/30/92
061-00930	NA	M1-501	CONSOLIDATION COAL COMPANY	39.640477	-80.194051	4-20-24	Plugged 9/21/89
061-00931	NA	M1-502	CONSOLIDATION COAL COMPANY	39.641493	-80.194426	4-20-24	Plugged 8/17/89
061-00948	NA	M1-506	CONSOLIDATION COAL COMPANY	39.642799	-80.196115	4-20-13	Plugged 4/26/90
061-00947	NA	M1-500	CONSOLIDATION COAL COMPANY	39.643401	-80.193658	4-20-13	NA
061-00927	NA	M1-495	CONSOLIDATION COAL COMPANY	39.640066	-80.190094	4-20-24	Plugged 3/26/90
061-00145	NA	M1-492	CONSOLIDATION COAL COMPANY	39.636795	-80.187746	4-20-23	Plugged 6/30/93
061-01034	NA	M1-489	CONSOLIDATION COAL COMPANY	39.634846	-80.185779	4-20-62	Plugged 8/5/91

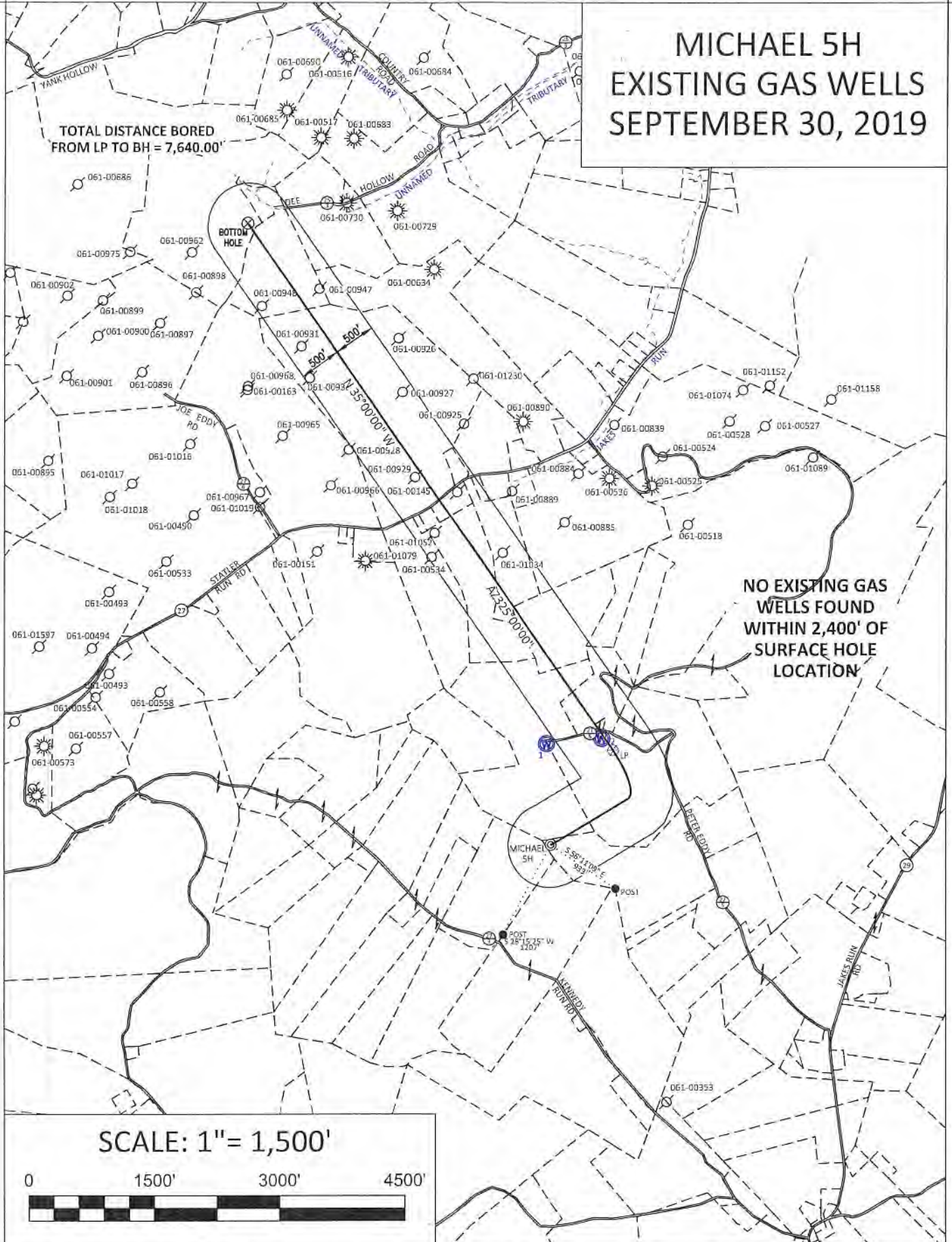
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 Environmental Protection

**MICHAEL 5H
EXISTING GAS WELLS
SEPTEMBER 30, 2019**

TOTAL DISTANCE BORED
FROM LP TO BH = 7,640.00'

NO EXISTING GAS
WELLS FOUND
WITHIN 2,400' OF
SURFACE HOLE
LOCATION

SCALE: 1" = 1,500'



47 06 : 018 63

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(40) Office of Oil and Gas

API Number 47 - _____
Operator's Well No. Michael 5H

OCT 15 2019

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

WV Department of
Environmental Protection

FLUIDS/ CUTTINGS DISPOSAL & RECLAMATION PLAN

Operator Name Northeast Natural Energy LLC OP Code 494498281

Watershed (HUC 10) Dunkard Creek Quadrangle Blacksville

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

Will a pit be used? Yes No

If so, please describe anticipated pit waste: NA

Will a synthetic liner be used in the pit? Yes No If so, what ml.? NA

Proposed Disposal Method For Treated Pit Wastes:

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

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

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

-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 Medley
Company Official (Typed Name) Hollie Medley
Company Official Title Regulatory Manager

Subscribed and sworn before me this 8th day of October, 2019, 20

Kristen Brooks

Notary Public

My commission expires August 10, 2019



OFFICIAL SEAL
NOTARY PUBLIC
STATE OF WEST VIRGINIA
Kristen Brooks
Northeast Natural Energy LLC
48 Donley St., Suite 601
Morgantown, WV 26501
My Commission Expires Aug. 10, 2023

Northeast Natural Energy LLC

Proposed Revegetation Treatment: Acres Disturbed 70.15 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
Tetraploi 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: *Gaym J. Klaus*

Comments: *Pending DOT approvals for State road re-alignment and/or improvements*

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OCT 15 2019

WV Department of Environmental Protection

Title: *Inspector* Date: *10/9/2019*

Field Reviewed? (X) Yes () No

Attachment A to WW-9

Northeast Natural Energy LLC (“NNE”) plans to utilize a closed loop process for its drilling of the Michael 3H 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.

The 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

Michael 5H

SITE SAFETY PLAN

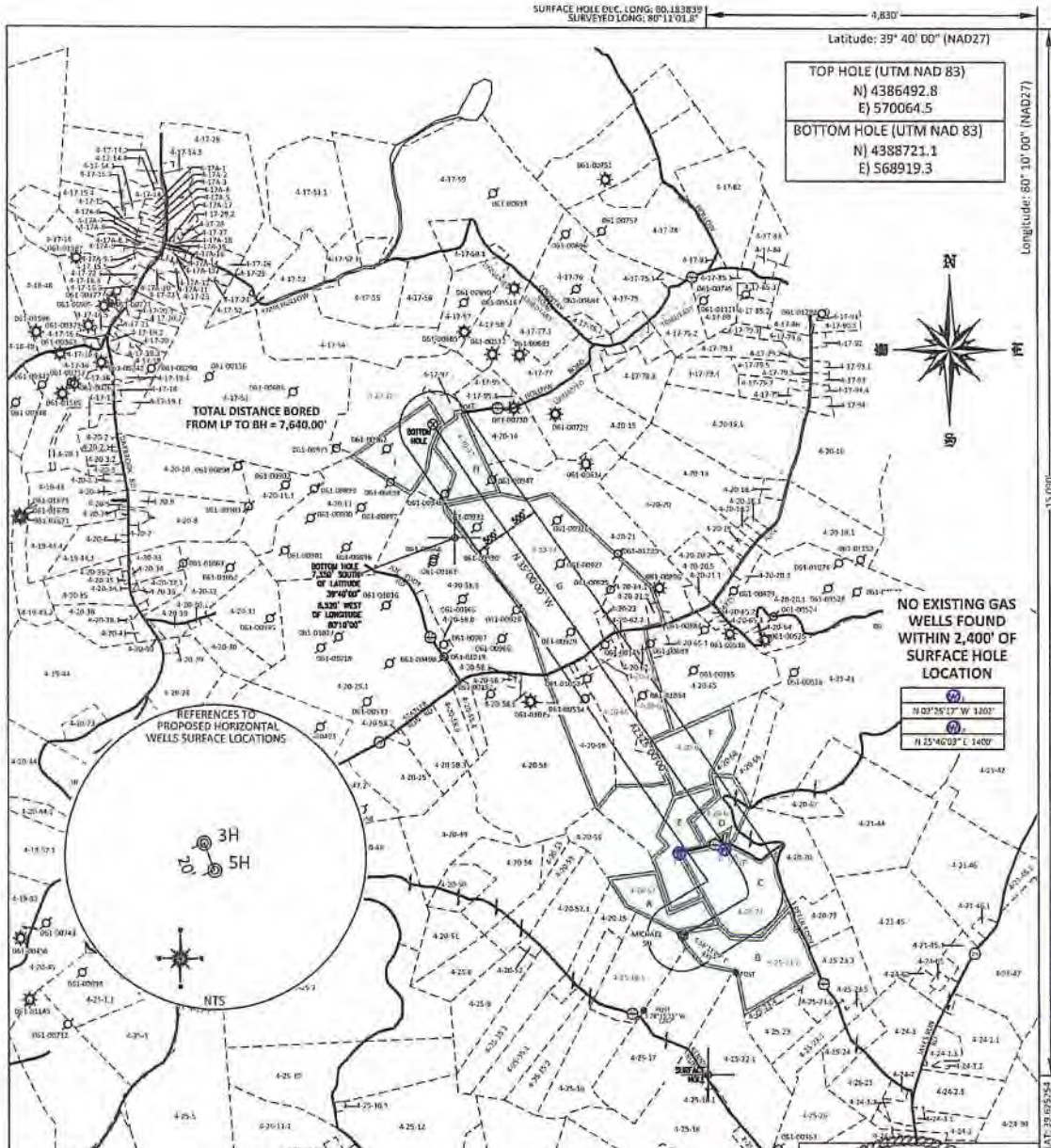
September 2019

Approved
Antonia
10/9/2019

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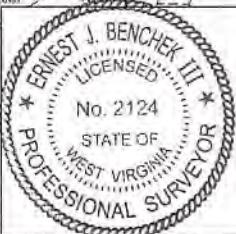
WV Department of
Environmental Protection



FILE #: NEE14
DRAWING #: 2913
SCALE: PLAT: 1" = 2000'
TICK MARK: 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: [Signature]
L.L.S. #2124 : Ernest J. Benchek III



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

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

Well Type: Oil Waste Disposal Production Deep
 Gas Liquid Injection Storage Shallow

WATERSHED: UPPER MONONGAHELA RIVER

COUNTY/DISTRICT: MONONGALIA / CLAY

SURFACE OWNER: WILLIAM F. MICHAEL Jr.

OIL & GAS ROYALTY OWNER: Sheila Casner, et al

LEASE NUMBERS: _____

DATE: OCTOBER 1, 2019

OPERATOR'S WELL #: MICHAEL 5H

API WELL #: 47 61 D1863
STATE COUNTY PERMIT

CURRENT ELEVATION: 1,500' PROPOSED ELEVATION: 1,460.00'

QUADRANGLE: BLACKSVILLE, WV

ACREAGE: 31.594 +/-

ACREAGE: 339.794 +/-

TARGET FORMATION: MARCELLUS

WELL OPERATOR: NORTHEAST NATURAL ENERGY LLC

ADDRESS: 707 VIRGINIA STREET EAST, SUITE 1200

CITY: CHARLESTON STATE: WV ZIP CODE: 25301

ESTIMATED DEPTH: TVD: 8,136' TMD: 16,304'

DESIGNATED AGENT: JOHN ADAMS

ADDRESS: 707 VIRGINIA STREET EAST, SUITE 1200

CITY: CHARLESTON STATE: WV ZIP CODE: 25301

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

PROPERTY OWNER INDEX	
4-25-16.1	CLARENCE STATLER
4-25-23.2	WILLIAM F. MICHAEL Jr.
4-20-57	WILLIAM F. MICHAEL Jr
4-20-71	RAYMOND E. & RUTH S. PERKO
4-20-69	WILLIAM W. KNISLEY JR. & RACHEL L. KNISLEY
4-20-61	WILLIAM W. KNISLEY JR. & RACHEL L. KNISLEY
4-20-60	JARETTA G. FINCH
4-20-62	JARETTA G. FINCH
4-20-23	JERRY LEE & NANCY DARLENE TENNANT
4-20-24	RICHARD EDDY
4-20-13	DIANA JOYCE & ROBERT D. DEWITT
4-20-12	JOHN PAUL TENNANT ESTATE

LEASE INDEX			
A	WV-061-003749	F	WV-061-005161
B	WV-061-003309	G	WV-061-003566
C	WV-061-004583	H	WV-061-002854
D	WV-061-004246	I	WV-061-002566
E	WV-061-003749		

FILE #: NEE14

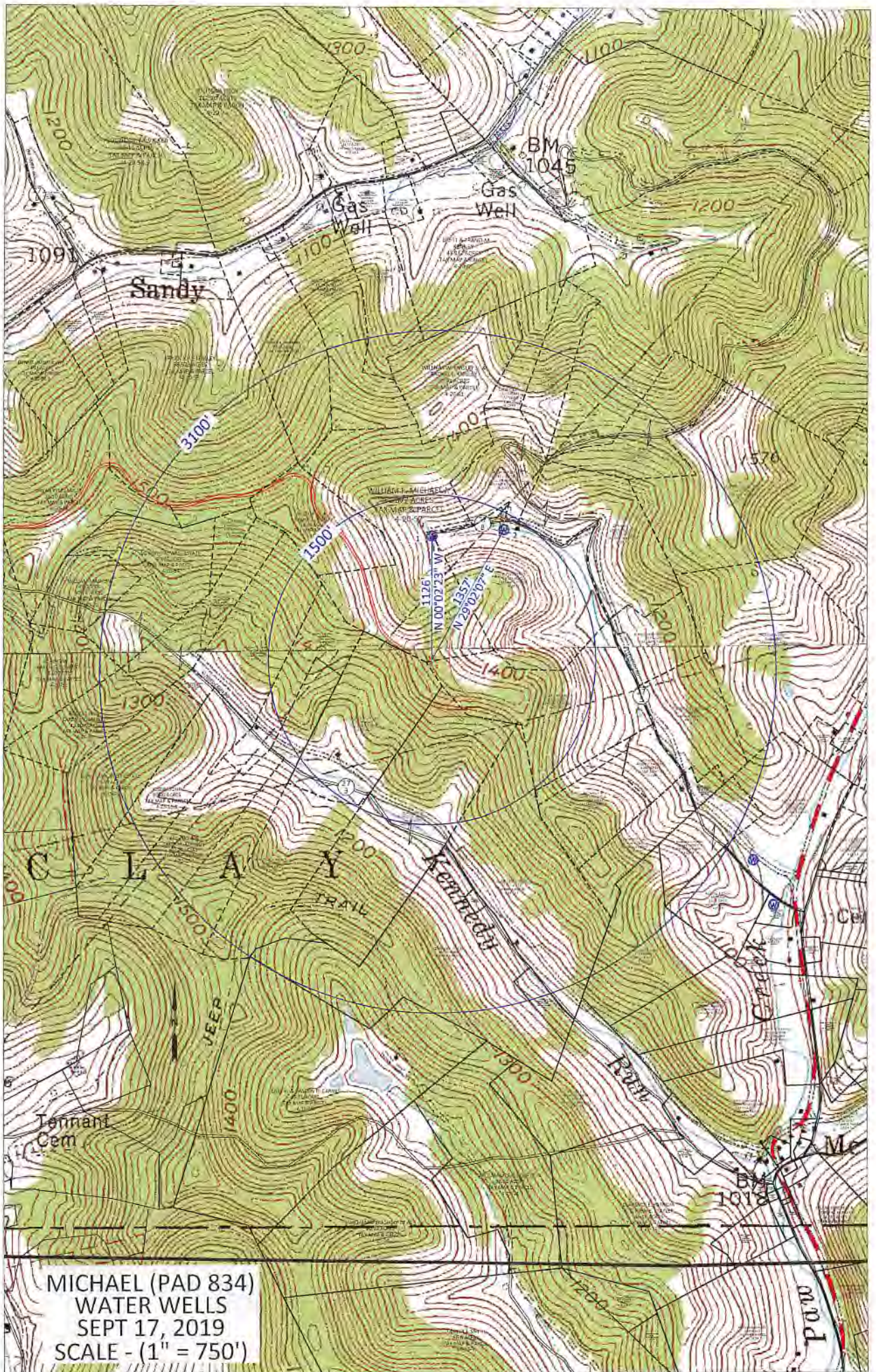
DRAWING #: 2913

SCALE: N/A

DATE: OCTOBER 1, 2019

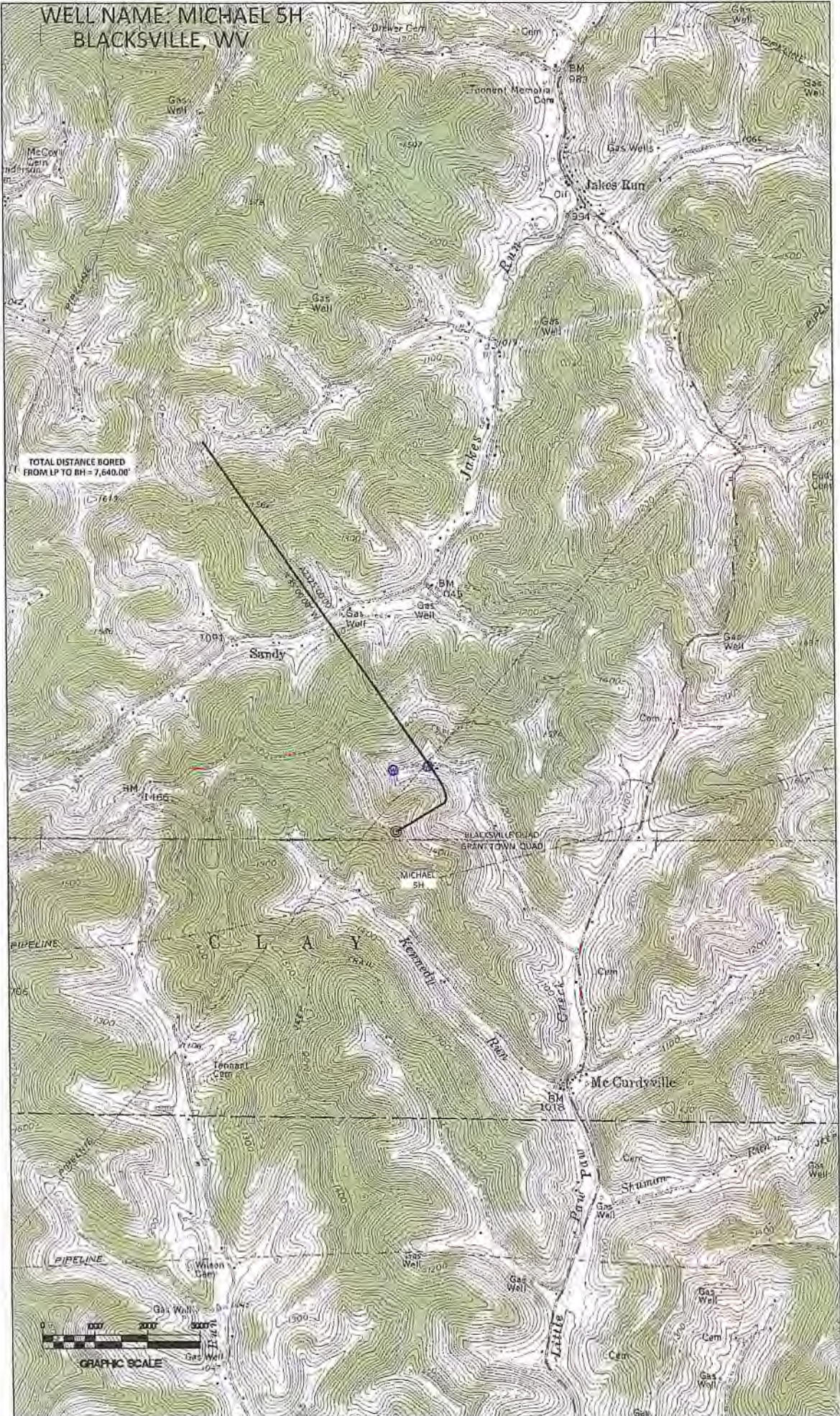
OPERATOR'S WELL #: MICHAEL 5H

API WELL #: 47 61 01863
STATE COUNTY PERMIT



MICHAEL (PAD 834)
WATER WELLS
SEPT 17, 2019
SCALE - (1" = 750')

WELL NAME: MICHAEL 5H
BLACKSVILLE, WV



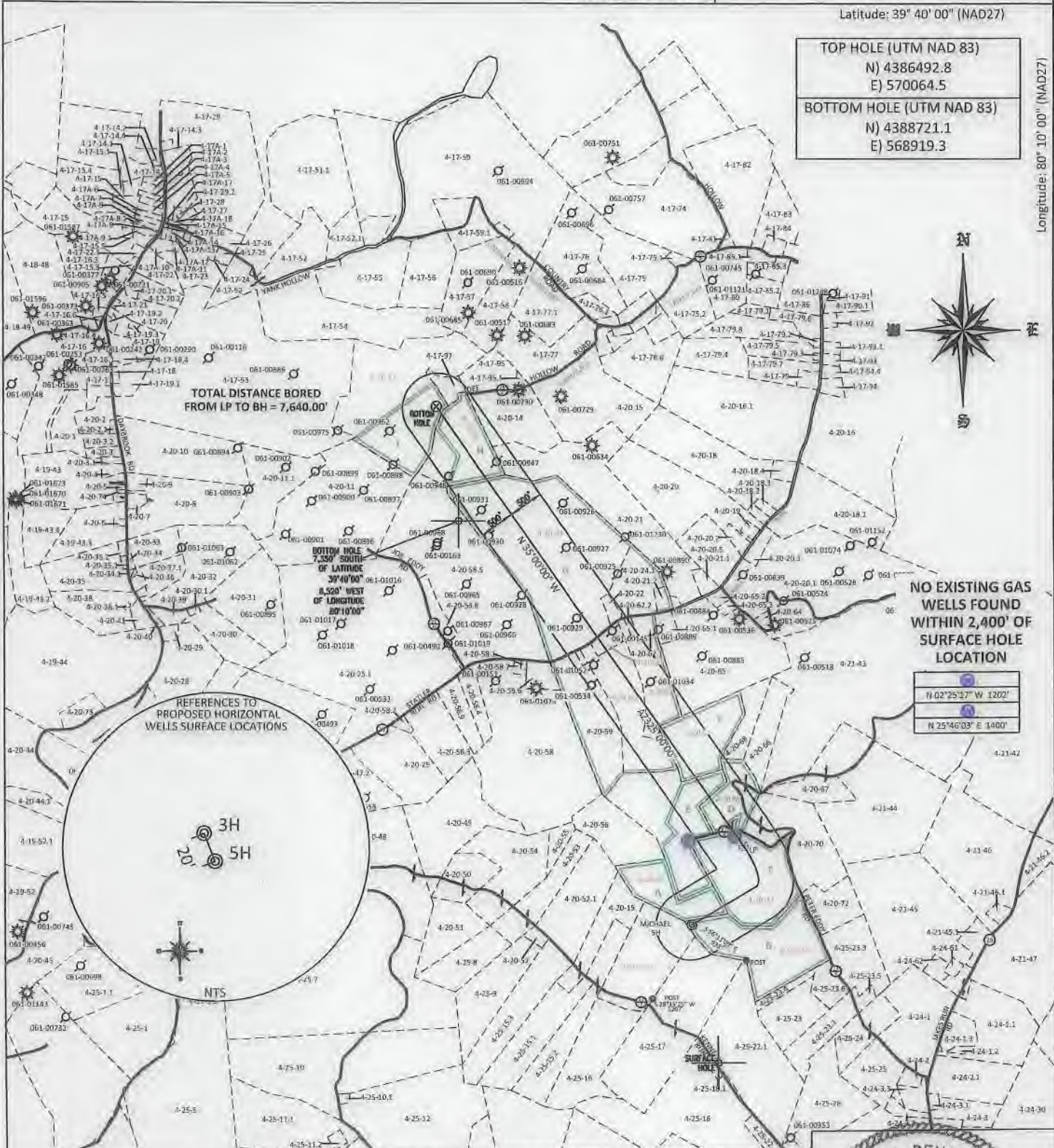
TOTAL DISTANCE BORED
FROM LP TO BH = 7,640.00'

GRAPHIC SCALE

WELL NAME: MICHAEL 5H
BLACKSVILLE, WV

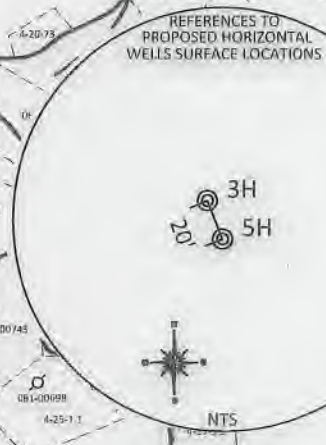


TOP HOLE (UTM NAD 83)
N) 4386492.8
E) 570064.5
BOTTOM HOLE (UTM NAD 83)
N) 4388721.1
E) 568919.3



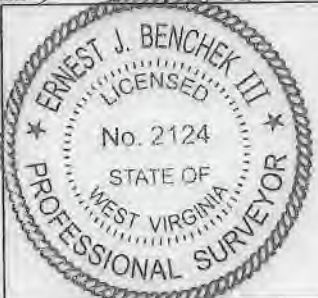
NO EXISTING GAS WELLS FOUND WITHIN 2,400' OF SURFACE HOLE LOCATION

N 02°25'27" W 1202'
N 25°46'03" E 1400'



FILE #: NEE14
DRAWING #: 2913
SCALE: PLAT: 1" = 2000'
TICK MARK: 1" = 2000'
MINIMUM DEGREE OF ACCURACY: 1/200
PROVEN SOURCE SUBMETER MAPPING OF ELEVATION: 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: Ernest J. Benchek III
L.L.S. #2124 : Ernest J. Benchek III



(+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS WYDEP
OFFICE OF OIL & GAS
601 57TH STREET
CHARLESTON, WV 25304
Well Type: Oil Waste Diposal Production Deep
 Gas Liquid Injection Storage Shallow
WATERSHED: UPPER MONONGAHELA RIVER
COUNTY/DISTRICT: MONONGALIA / CLAY
SURFACE OWNER: WILLIAM F. MICHAEL Jr.
OIL & GAS ROYALTY OWNER: Sheila Cosner, 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
WELL OPERATOR: NORTHEAST NATURAL ENERGY LLC
ADDRESS: 707 VIRGINIA STREET EAST, SUITE 1200
CITY: CHARLESTON STATE: WV ZIP CODE: 25301
DATE: OCTOBER 1, 2019
OPERATOR'S WELL #: MICHAEL 5H
API WELL #: 47 61 01863 HGA
STATE COUNTY PERMIT
CURRENT ELEVATION: 1,500' PROPOSED ELEVATION: 1,460.00'
QUADRANGLE: BLACKSVILLE, WV
ACREAGE: 31.594 +/-
ACREAGE: 339.794 +/-
ESTIMATED DEPTH: TVD: 8,136' TMD: 16,304'
DESIGNATED AGENT: JOHN ADAMS
ADDRESS: 707 VIRGINIA STREET EAST, SUITE 1200
CITY: CHARLESTON STATE: WV ZIP CODE: 25301

SURFACE HOLE DEC. LAT: 39.672554
SURVEYED LAT: 39° 40' 00"

PROPERTY OWNER INDEX	
4-25-16.1	CLARENCE STATLER
4-25-23.2	WILLIAM F. MICHAEL Jr.
4-20-57	WILLIAM F. MICHAEL Jr
4-20-71	RAYMOND E. & RUTH S. PERKO
4-20-69	WILLIAM W. KNISLEY JR. & RACHEL L. KNISLEY
4-20-61	WILLIAM W. KNISLEY JR. & RACHEL L. KNISLEY
4-20-60	JARETTA G. FINCH
4-20-62	JARETTA G. FINCH
4-20-23	JERRY LEE & NANCY DARLENE TENNANT
4-20-24	RICHARD EDDY
4-20-13	DIANA JOYCE & ROBERT D. DEWITT
4-20-12	JOHN PAUL TENNANT ESTATE

LEASE INDEX			
A	WV-061-003749	F	WV-061-005161
B	WV-061-003309	G	WV-061-003566
C	WV-061-004583	H	WV-061-002854
D	WV-061-004246	I	WV-061-002566
E	WV-061-003749		

FILE #: NEE14

DRAWING #: 2913

SCALE: N/A

DATE: OCTOBER 1, 2019

OPERATOR'S WELL #: MICHAEL 5H

API WELL #: 47 61 01863 W44
STATE COUNTY PERMIT

WW-6A1
(5/13)

Operator's Well No. Michael 5H

**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
-------------------------	-----------------------	-----------------------	---------	-----------

Attached

RECEIVED
Office of Oil and Gas

OCT 15 2019

WV Department of
Environmental Protection

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

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

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

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

Well Operator: Northeast Natural Energy LLC

By: Hollie Medley *Hollie Medley*

Its: Regulatory Manager

OCT 15 2019

WW-6A1

Operators Well No. Michael Northeast 5WV Department of
Environmental Protection

Tract	Lease Number	Grantor, Lessor, etc.	Grantee, Lessee, etc.	Royalty	Book	Page
A	WV-061-003749-001	COSNER, SHEILA	Northeast Natural Energy LLC	12.5% or Greater	1554	689
A	WV-061-003749-002	EDDY, RONALD L	Northeast Natural Energy LLC	12.5% or Greater	1558	827
A	WV-061-004696-001	RAIKES, CHARLES	Northeast Natural Energy LLC	12.5% or Greater	1605	310
B	WV-061-003309-001	CHESAPEAKE APPALACHIA	CHESAPEAKE APPALACHIA	12.5% or Greater	1487	228
		CHESAPEAKE APPALACHIA	Northeast Natural Energy LLC		120	769
B	WV-061-003015-007	MEREDITH, ALEDA	Northeast Natural Energy LLC	12.5% or Greater	1558	825
B	WV-061-003015-012	COLOSINO, BONNIE	Northeast Natural Energy LLC	12.5% or Greater	1568	1
B	WV-061-003015-022	ROGERS, DAVID L	Northeast Natural Energy LLC	12.5% or Greater	1566	100
B	WV-061-003015-020	ROGERS, DEBRA L	Northeast Natural Energy LLC	12.5% or Greater	1559	160
B	WV-061-003015-021	HOVATTER, DONNA	Northeast Natural Energy LLC	12.5% or Greater	1559	162
B	WV-061-005558-001	LEONIDAS PROPERTIES LLC	LOLA DRILLING I LLC	12.5% or Greater	1564	425
B		LOLA DRILLING I LLC	RICE ENERGY		133	752
B		RICE ENERGY	EQT	*See SEC MERGER	https://www.sec.gov/Archives/edgar/data/1588238/000110465917068001/a17-26468_3posasr.htm	
B		EQT	Northeast Natural Energy LLC		139	668
B	WV-061-003015-006	WALKER, JOHN	Northeast Natural Energy LLC	12.5% or Greater	1564	339
B	WV-061-003015-013	BARTOLINA, KAREN	Northeast Natural Energy LLC	12.5% or Greater	1552	442
B	WV-061-003015-026	KEENER, KATHY A	Northeast Natural Energy LLC	12.5% or Greater	1552	438
B	WV-061-003015-005	RUNION, LEWIS	Northeast Natural Energy LLC	12.5% or Greater	1564	341
B	WV-061-003015-028	REED, LISA GAY	Northeast Natural Energy LLC	12.5% or Greater	1565	293
B	WV-061-003015-016	WALKER, MARY	Northeast Natural Energy LLC	12.5% or Greater	1564	262
B	WV-061-003015-029	BORN, NANCY L	Northeast Natural Energy LLC	12.5% or Greater	1567	844
B	WV-061-003015-023	ROGERS, RANDY L	Northeast Natural Energy LLC	12.5% or Greater	1551	213
B	WV-061-003015-017	ROGERS, RODNEY	Northeast Natural Energy LLC	12.5% or Greater	1551	211
B	WV-061-003015-014	TENNANT, SHARON	Northeast Natural Energy LLC	12.5% or Greater	1551	205
B	WV-061-003015-024	RODGERS, SHELIA	Northeast Natural Energy LLC	12.5% or Greater	1564	721
B	WV-061-003015-010	WALKER, STANLEY	Northeast Natural Energy LLC	12.5% or Greater	1573	186
B	WV-061-003015-019	BROWN, SUSAN JANE	Northeast Natural Energy LLC	12.5% or Greater	1552	349
B	WV-061-003015-015	ANGELONE, WILDA	Northeast Natural Energy LLC	12.5% or Greater	1551	215
B	WV-061-003015-008	WALKER, WM D JR	Northeast Natural Energy LLC	12.5% or Greater	1558	823
B	WV-061-003015-025	ROGERS, WILLIAM	Northeast Natural Energy LLC	12.5% or Greater	1559	166
B	WV-061-003015-011	MICHAEL, WINNIE	Northeast Natural Energy LLC	12.5% or Greater	1551	201
B	WV-061-004125-001	MATTERN, JAMES	Northeast Natural Energy LLC	12.5% or Greater	1563	615
B	WV-061-003015-027	TENNANT, MINERVA	Northeast Natural Energy LLC	12.5% or Greater	1551	207
C	WV-061-004583-000	PERKO, RAYMOND	Northeast Natural Energy LLC	12.5% or Greater	1593	531
D	WV-061-004246-001	KNISLEY, WILLIAM	Northeast Natural Energy LLC	12.5% or Greater	1569	211
E	WV-061-003749-001	COSNER, SHEILA	Northeast Natural Energy LLC	12.5% or Greater	1554	689
E	WV-061-003749-002	EDDY, RONALD L	Northeast Natural Energy LLC	12.5% or Greater	1558	827
E	WV-061-004696-001	RAIKES, CHARLES	Northeast Natural Energy LLC	12.5% or Greater	1605	310
F	WV-061-005161-001	LYONS, KENNETH	Northeast Natural Energy LLC	12.5% or Greater	1621	561
F	WV-061-004246-001	KNISLEY, WILLIA	Northeast Natural Energy LLC	12.5% or Greater	1569	211
F	WV-061-005161-002	COLE, GARY ET	Northeast Natural Energy LLC	12.5% or Greater	1623	501
F	WV-061-005161-003	GARBER, LORETTA	Northeast Natural Energy LLC	12.5% or Greater	1623	503
F	WV-061-005161-004	DAVIS, DEANNA	Northeast Natural Energy LLC	12.5% or Greater	1623	505
F	WV-061-005161-005	LEMLEY, IDA MAR	Northeast Natural Energy LLC	12.5% or Greater	1623	507
F	WV-061-005161-006	YELCICH, JO ANN	Northeast Natural Energy LLC	12.5% or Greater	1623	509
F	WV-061-005161-007	GILLES, ALEXA M	Northeast Natural Energy LLC	12.5% or Greater	1623	511
F	WV-061-005161-008	CONKUN, CRAIG	Northeast Natural Energy LLC	12.5% or Greater	1623	533
F	WV-061-005161-009	CONKLIN, ROBERT	Northeast Natural Energy LLC	12.5% or Greater	1623	535
F	WV-061-005161-010	LEMLEY, CHARLES	Northeast Natural Energy LLC	12.5% or Greater	1623	537
F	WV-061-005161-011	FLEMING, CHRIST	Northeast Natural Energy LLC	12.5% or Greater	1623	539
F	WV-061-005161-012	CONKLIN, JAMES	Northeast Natural Energy LLC	12.5% or Greater	1623	541
F	WV-061-005161-013	CONKLIN, WILLIA	Northeast Natural Energy LLC	12.5% or Greater	1623	543
F	WV-061-005161-014	HAUGHT, KEITH C	Northeast Natural Energy LLC	12.5% or Greater	1637	358
F	WV-061-005161-015	SMITH, SHELLEY	Northeast Natural Energy LLC	12.5% or Greater	1627	7
F	WV-061-005161-016	GONZALEZ, LISA	Northeast Natural Energy LLC	12.5% or Greater	1627	9
F	WV-061-005161-017	MCCONNELL, PANS	Northeast Natural Energy LLC	12.5% or Greater	1627	11
F	WV-061-005161-018	MATTHEWS, KENNE	Northeast Natural Energy LLC	12.5% or Greater	1630	207
F	WV-061-005161-019	YONEY, MARY	Northeast Natural Energy LLC	12.5% or Greater	1627	22
F	WV-061-005161-020	MATTHEWS, CHARL	Northeast Natural Energy LLC	12.5% or Greater	1627	24
F	WV-061-005161-021	HRUTKAY, PATRIC	Northeast Natural Energy LLC	12.5% or Greater	1627	26
F	WV-061-005161-022	MATTHEWS, CLARE	Northeast Natural Energy LLC	12.5% or Greater	1627	28

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Operators Well No. Michael Northeast 5H

F	WV-061-005161-023	LEMLEY, CHARLES	Northeast Natural Energy LLC	12.5% or Greater	1627	30
F	WV-061-005161-024	LEMLEY, JENNY R	Northeast Natural Energy LLC	12.5% or Greater	1627	32
F	WV-061-005161-025	SIMONS, MARCIA	Northeast Natural Energy LLC	12.5% or Greater	1627	34
F	WV-061-005161-026	COLE, C BRYAN	Northeast Natural Energy LLC	12.5% or Greater	1627	36
F	WV-061-005161-027	CONKLIN, MICHAEL	Northeast Natural Energy LLC	12.5% or Greater	1627	453
F	WV-061-005161-028	CONKLIN, WILLIAM	Northeast Natural Energy LLC	12.5% or Greater	1629	217
F	WV-061-005161-029	WILDMAN, SAUNDR	Northeast Natural Energy LLC	12.5% or Greater	1627	455
F	WV-061-005161-030	BALTRINIC, JIM	Northeast Natural Energy LLC	12.5% or Greater	1627	488
F	WV-061-005161-031	DAPPRICH, SUSAN	Northeast Natural Energy LLC	12.5% or Greater	1627	490
F	WV-061-005161-032	YOST, RICHARD L	Northeast Natural Energy LLC	12.5% or Greater	1627	492
F	WV-061-005161-033	PIENKOWSKI, NAN	Northeast Natural Energy LLC	12.5% or Greater	1634	812
F	WV-061-005161-034	BROWN, LINDA	Northeast Natural Energy LLC	12.5% or Greater	1628	543
F	WV-061-005161-035	BENNETT, CYNTHI	Northeast Natural Energy LLC	12.5% or Greater	1628	545
F	WV-061-005161-036	PROHL, DOROTHY	Northeast Natural Energy LLC	12.5% or Greater	1628	557
F	WV-061-005161-037	LEMLEY, BARBARA	Northeast Natural Energy LLC	12.5% or Greater	1628	547
F	WV-061-005161-038	HIGGINS, DANNY	Northeast Natural Energy LLC	12.5% or Greater	1628	549
F	WV-061-005161-039	KNIGHT, JEREMIH	Northeast Natural Energy LLC	12.5% or Greater	1628	551
F	WV-061-005161-040	IRELAND, GARY L	Northeast Natural Energy LLC	12.5% or Greater	1629	219
F	WV-061-005161-041	YOST, DANNY	Northeast Natural Energy LLC	12.5% or Greater	1629	239
F	WV-061-005161-042	SEELEY, CHARLES	Northeast Natural Energy LLC	12.5% or Greater	1629	242
F	WV-061-005161-043	OHLER, SUE	Northeast Natural Energy LLC	12.5% or Greater	1629	244
F	WV-061-005161-044	MCCLELLAND, RIC	Northeast Natural Energy LLC	12.5% or Greater	1629	246
F	WV-061-005161-045	TAGGART, JENNY	Northeast Natural Energy LLC	12.5% or Greater	1629	248
F	WV-061-005161-046	HIGGINS, MICHEA	Northeast Natural Energy LLC	12.5% or Greater	1629	250
F	WV-061-005161-047	YOST, WILLIAM	Northeast Natural Energy LLC	12.5% or Greater	1629	252
F	WV-061-005161-048	WILSON, TAMMY	Northeast Natural Energy LLC	12.5% or Greater	1629	254
F	WV-061-005161-049	KNIGHT, GLENN L	Northeast Natural Energy LLC	12.5% or Greater	1629	256
F	WV-061-005161-050	BROWN, NICOLE	Northeast Natural Energy LLC	12.5% or Greater	1629	258
F	WV-061-005161-051	SMITH, NANCY L	Northeast Natural Energy LLC	12.5% or Greater	1630	163
F	WV-061-005161-052	MOORE, TIMOTHY	Northeast Natural Energy LLC	12.5% or Greater	1638	557
F	WV-061-005161-053	DENNIS, HARRY	Northeast Natural Energy LLC	12.5% or Greater	1634	815
F	WV-061-005161-054	DAILEY, CONNIE	Northeast Natural Energy LLC	12.5% or Greater	1630	47
F	WV-061-005161-055	STANKULA, CINDY	Northeast Natural Energy LLC	12.5% or Greater	1630	49
F	WV-061-005161-056	ALLMON, BRUCE A	Northeast Natural Energy LLC	12.5% or Greater	1630	51
F	WV-061-005161-057	BAXTER, DEBRA K	Northeast Natural Energy LLC	12.5% or Greater	1630	53
F	WV-061-005161-058	YOST, DEWEY G	Northeast Natural Energy LLC	12.5% or Greater	1630	55
F	WV-061-005161-059	LEMLEY, PERRY H	Northeast Natural Energy LLC	12.5% or Greater	1630	57
F	WV-061-005161-060	BAKER, LISA A	Northeast Natural Energy LLC	12.5% or Greater	1630	59
F	WV-061-005161-061	LEMLEY, MELVIN	Northeast Natural Energy LLC	12.5% or Greater	1631	425
F	WV-061-005161-062	IRELAND, JOHN W	Northeast Natural Energy LLC	12.5% or Greater	1631	427
F	WV-061-005161-063	MILLER, HOLLY E	Northeast Natural Energy LLC	12.5% or Greater	1631	429
F	WV-061-005161-064	DANIELI, KAREN	Northeast Natural Energy LLC	12.5% or Greater	1631	431
F	WV-061-005161-065	LEMLEY, VICTORA	Northeast Natural Energy LLC	12.5% or Greater	1631	433
F	WV-061-005161-066	YONOSICK, LISSA	Northeast Natural Energy LLC	12.5% or Greater	1631	435
F	WV-061-005161-067	HARTER, MYRA	Northeast Natural Energy LLC	12.5% or Greater	1631	751
F	WV-061-005161-068	HURLESS, RODNEY	Northeast Natural Energy LLC	12.5% or Greater	1631	749
F	WV-061-005161-069	HURLESS, DALE	Northeast Natural Energy LLC	12.5% or Greater	1631	815
F	WV-061-005161-070	HIGGINS, LARRY	Northeast Natural Energy LLC	12.5% or Greater	1631	817
F	WV-061-005161-071	MARKER, CATHY	Northeast Natural Energy LLC	12.5% or Greater	1631	819
F	WV-061-005161-072	MILLER, BARBARA	Northeast Natural Energy LLC	12.5% or Greater	1631	821
F	WV-061-005161-073	HURLESS, DONALD	Northeast Natural Energy LLC	12.5% or Greater	1631	823
F	WV-061-005161-074	FELGER, RUTH A	Northeast Natural Energy LLC	12.5% or Greater	1633	503
F	WV-061-005161-075	HAUGHT, NEAL ET	Northeast Natural Energy LLC	12.5% or Greater	1633	505
F	WV-061-005161-076	HANSON, LARAINE	Northeast Natural Energy LLC	12.5% or Greater	1633	507
F	WV-061-005161-077	USHER, DAKOTA R	Northeast Natural Energy LLC	12.5% or Greater	1633	509
F	WV-061-005161-078	USHER, CRAIG S	Northeast Natural Energy LLC	12.5% or Greater	1636	130
F	WV-061-005161-079	USHER, DANIEL A	Northeast Natural Energy LLC	12.5% or Greater	1636	132
F	WV-061-005161-080	MOSER, KENNETH	Northeast Natural Energy LLC	12.5% or Greater	1638	402
F	WV-061-005161-081	FAVRON, LINDA S	Northeast Natural Energy LLC	12.5% or Greater	1635	300
F	WV-061-005161-082	TALABAC, LOUELL	Northeast Natural Energy LLC	12.5% or Greater	1635	302
F	WV-061-005161-083	MEANS, MICHAEL	Northeast Natural Energy LLC	12.5% or Greater	1635	430
F	WV-061-005161-084	FOX, JACK E. ET	Northeast Natural Energy LLC	12.5% or Greater	1635	432
F	WV-061-005161-085	IRELAND, WILLIAM	Northeast Natural Energy LLC	12.5% or Greater	1635	434
F	WV-061-005161-086	LEMLEY, EDNA	Northeast Natural Energy LLC	12.5% or Greater	1635	436
F	WV-061-005161-087	LEMLEY, RITA L	Northeast Natural Energy LLC	12.5% or Greater	1635	438

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Operators Well No. Michael Northeast 5H

F	WV-061-005161-088	LEMLEY, ROBERT	Northeast Natural Energy LLC	12.5% or Greater	1635	440
F	WV-061-005161-089	WALLACE, SANDRA	Northeast Natural Energy LLC	12.5% or Greater	1636	765
F	WV-061-005161-090	SWIGER, JUDITH	Northeast Natural Energy LLC	12.5% or Greater	1636	767
F	WV-061-005161-091	ALLEN, RUTH ANN	Northeast Natural Energy LLC	12.5% or Greater	1637	750
F	WV-061-005161-092	ALECUSAN, GEORG	Northeast Natural Energy LLC	12.5% or Greater	1637	752
F	WV-061-005161-093	FOX, JAMES ALLE	Northeast Natural Energy LLC	12.5% or Greater	1637	754
F	WV-061-005161-094	HAGEY, SARAH	Northeast Natural Energy LLC	12.5% or Greater	1637	756
F	WV-061-005161-095	FOX, BRUCE EDWA	Northeast Natural Energy LLC	12.5% or Greater	1637	758
F	WV-061-005161-096	MOSER, CORWIN A	Northeast Natural Energy LLC	12.5% or Greater	1642	96
F	WV-061-005161-097	PHILLIPS, STEVE	Northeast Natural Energy LLC	12.5% or Greater	1637	760
F	WV-061-005161-098	ALECUSAN, GARY	Northeast Natural Energy LLC	12.5% or Greater	1637	762
F	WV-061-005161-099	FOX, JEFFREY ET	Northeast Natural Energy LLC	12.5% or Greater	1640	472
F	WV-061-005161-100	DUVALL, RHONDA	Northeast Natural Energy LLC	12.5% or Greater	1637	766
F	WV-061-005161-101	RUSH, TERRY M	Northeast Natural Energy LLC	12.5% or Greater	1638	559
F	WV-061-005161-102	RUSH, JOHN E ET	Northeast Natural Energy LLC	12.5% or Greater	1638	561
F	WV-061-005161-103	RUSH, DONALD G	Northeast Natural Energy LLC	12.5% or Greater	1637	768
F	WV-061-005161-104	LEMLEY, ROBIN E	Northeast Natural Energy LLC	12.5% or Greater	1643	151
F	WV-061-005161-105	STAIB, DEBRA L	Northeast Natural Energy LLC	12.5% or Greater	1638	563
F	WV-061-005161-106	MEANS, FLOYD A	Northeast Natural Energy LLC	12.5% or Greater	1638	567
F	WV-061-005161-107	FARMER, CONNIE	Northeast Natural Energy LLC	12.5% or Greater	1638	569
F	WV-061-005161-108	SNOOK, MICHELLE	Northeast Natural Energy LLC	12.5% or Greater	1638	574
F	WV-061-005161-109	FOX, STEVEN D	Northeast Natural Energy LLC	12.5% or Greater	1638	573
F	WV-061-005161-110	RUSH, ROBERT ET	Northeast Natural Energy LLC	12.5% or Greater	1638	575
F	WV-061-005161-111	RUSH, RICHARD D	Northeast Natural Energy LLC	12.5% or Greater	1638	577
F	WV-061-005161-112	RUSH, CHARLES	Northeast Natural Energy LLC	12.5% or Greater	1638	579
F	WV-061-005161-113	POPA, CAROL ET	Northeast Natural Energy LLC	12.5% or Greater	1640	331
F	WV-061-005161-114	YOST, WANDA I	Northeast Natural Energy LLC	12.5% or Greater	1640	333
F	WV-061-005161-115	NEEPER, TIMOTHY	Northeast Natural Energy LLC	12.5% or Greater	1641	263
F	WV-061-005161-116	BLACK, TERRIE	Northeast Natural Energy LLC	12.5% or Greater	1641	265
F	WV-061-005161-117	SLIDER, DIANA L	Northeast Natural Energy LLC	12.5% or Greater	1641	267
F	WV-061-005161-118	PETERSEN, PHYLL	Northeast Natural Energy LLC	12.5% or Greater	1641	269
F	WV-061-005161-119	DIKUN, CRAIG A	Northeast Natural Energy LLC	12.5% or Greater	1641	271
F	WV-061-005161-120	ROWE, JOHN	Northeast Natural Energy LLC	12.5% or Greater	1641	273
F	WV-061-005161-121	HEDGES, CATHY J	Northeast Natural Energy LLC	12.5% or Greater	1642	176
F	WV-061-005161-123	KRINSKY, THERES	Northeast Natural Energy LLC	12.5% or Greater	1643	153
F	WV-061-005161-124	MOSER, DAVID W	Northeast Natural Energy LLC	12.5% or Greater	1643	155
F	WV-061-005161-125	MOSER, ALAN ET	Northeast Natural Energy LLC	12.5% or Greater	1643	157
F	WV-061-005161-126	USHER, JOSEPH L	Northeast Natural Energy LLC	12.5% or Greater	1643	159
F	WV-061-005161-127	RUSH, CHRISTY L	Northeast Natural Energy LLC	12.5% or Greater	1643	161
F	WV-061-005161-128	CUSTER, MAMIE E	Northeast Natural Energy LLC	12.5% or Greater	1646	712
F	WV-061-005161-129	RUSH, ELEANOR R	Northeast Natural Energy LLC	12.5% or Greater	1643	163
F	WV-061-005161-130	KENNEDY, JEFF	Northeast Natural Energy LLC	12.5% or Greater	1648	316
F	WV-061-005161-131	RUSH, TAMMY	Northeast Natural Energy LLC	12.5% or Greater	1643	169
F	WV-061-005161-132	RUSH, TRACY ET	Northeast Natural Energy LLC	12.5% or Greater	1643	165
F	WV-061-005161-133	LESKO, SANDRA K	Northeast Natural Energy LLC	12.5% or Greater	1643	167
F	WV-061-005161-134	CLARK, SUSAN ET	Northeast Natural Energy LLC	12.5% or Greater	1643	14
F	WV-061-005161-135	GONZALEZ, PAMEL	Northeast Natural Energy LLC	12.5% or Greater	1648	318
F	WV-061-005161-136	MOSER, ALLYSON	Northeast Natural Energy LLC	12.5% or Greater	1647	518
F	WV-061-005161-137	ZIPPAY, PAULA D	Northeast Natural Energy LLC	12.5% or Greater	1647	520
F	WV-061-005161-138	LEMLEY, RANDY	Northeast Natural Energy LLC	12.5% or Greater	1647	522
F	WV-061-005161-139	FOX, RONALD ET	Northeast Natural Energy LLC	12.5% or Greater	1648	320
F	WV-061-005161-140	HABERLEY, CORIN	Northeast Natural Energy LLC	12.5% or Greater	1648	322
F	WV-061-005161-141	PHILLIPS, CHARL	Northeast Natural Energy LLC	12.5% or Greater	1647	524
F	WV-061-005161-142	BROWNING, RICHA	Northeast Natural Energy LLC	12.5% or Greater	1647	810
F	WV-061-005161-143	LOCKREY, LAURA	Northeast Natural Energy LLC	12.5% or Greater	1650	247
F	WV-061-005161-144	YOST, PAUL ET	Northeast Natural Energy LLC	12.5% or Greater	1650	233
F	WV-061-005161-145	MOSER, DOUGLAS	Northeast Natural Energy LLC	12.5% or Greater	1650	235
F	WV-061-005161-146	GRANZOTTI, TIMO	Northeast Natural Energy LLC	12.5% or Greater	1650	237
F	WV-061-005161-147	RUSH, CHARLES J	Northeast Natural Energy LLC	12.5% or Greater	1650	239
F	WV-061-005161-148	MOSER, STEWART	Northeast Natural Energy LLC	12.5% or Greater	1650	241
F	WV-061-005161-149	YOST, RODNEY ET	Northeast Natural Energy LLC	12.5% or Greater	1650	243
F	WV-061-005161-150	HARTLINE, DANA	Northeast Natural Energy LLC	12.5% or Greater	1650	245
F	WV-061-005161-151	MOSER, ROBERT A	Northeast Natural Energy LLC	12.5% or Greater	1652	219
F	WV-061-005161-152	YOST TRUST	Northeast Natural Energy LLC	12.5% or Greater	1653	84
F	WV-061-005161-153	ALEXANDER, MICH	Northeast Natural Energy LLC	12.5% or Greater	1649	284

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Operators Well No. Michael Northeast 5H

F	WV-061-005161-154	ALEXANDER, PHIL	Northeast Natural Energy LLC	12.5% or Greater	1657	341
F	WV-061-005161-155	MALEY, PAMELA K	Northeast Natural Energy LLC	12.5% or Greater	1652	221
F	WV-061-005161-156	WASKO, DENNIS	Northeast Natural Energy LLC	12.5% or Greater	1653	582
F	WV-061-005161-157	LEMLEY, BONNIEG	Northeast Natural Energy LLC	12.5% or Greater	1654	1
F	WV-061-005161-158	KENNEDY, JULIUS	Northeast Natural Energy LLC	12.5% or Greater	1655	524
F	WV-061-005161-159	VODKA, THERESA	Northeast Natural Energy LLC	12.5% or Greater	1655	526
F	WV-061-005161-160	HARMON, DONNA	Northeast Natural Energy LLC	12.5% or Greater	1655	528
F	WV-061-005161-161	MOSER, TIMOTHY	Northeast Natural Energy LLC	12.5% or Greater	1660	614
F	WV-061-005161-162	MATTHEWS, ROBER	Northeast Natural Energy LLC	12.5% or Greater	1657	268
F	WV-061-005161-163	MATTHEWS, DONAL	Northeast Natural Energy LLC	12.5% or Greater	1657	270
F	WV-061-005161-164	LAMONT, FRANK	Northeast Natural Energy LLC	12.5% or Greater	1659	653
F	WV-061-005161-165	LAMONT, JOSEPH	Northeast Natural Energy LLC	12.5% or Greater	1660	416
F	WV-061-005161-166	MATTHEWS, TIMOT	Northeast Natural Energy LLC	12.5% or Greater	1660	418
F	WV-061-005161-167	MATTHEWS, JEFFR	Northeast Natural Energy LLC	12.5% or Greater	1662	820
F	WV-061-005161-168	MATTHEWS, KEVIN	Northeast Natural Energy LLC	12.5% or Greater	1662	705
F	WV-061-005161-169	BENYO, JULIA	Northeast Natural Energy LLC	12.5% or Greater	1666	259
F	WV-061-005161-170	LAMONT, SALVATO	Northeast Natural Energy LLC	12.5% or Greater	1667	593
F	WV-061-005161-172	RUSH, JOAN	Northeast Natural Energy LLC	12.5% or Greater	1671	393
F	WV-061-005161-122	DEEM, LACAUSA A	Northeast Natural Energy LLC	12.5% or Greater	1641	87
F	WV-061-005161-171	TITUS ESTATE	Northeast Natural Energy LLC	12.5% or Greater	138	152
F	WV-061-005161-173	WHITE, YVETTE	Northeast Natural Energy LLC	12.5% or Greater	138	164
F	WV-061-005161-174	KENNEDY, TIMOTH	Northeast Natural Energy LLC	12.5% or Greater	138	168
F	WV-061-005161-175	ARNER, JOHN A	Northeast Natural Energy LLC	12.5% or Greater	138	172
G	WV-061-003566-001	HUMPHREY, CATHERINE	Northeast Natural Energy LLC	12.5% or Greater	1551	44
G	WV-061-003925-001	TENNANT, EDNA J	Northeast Natural Energy LLC	12.5% or Greater	1566	77
G	WV-061-003925-002	KERR, JANET R.	Northeast Natural Energy LLC	12.5% or Greater	1565	678
G	WV-061-003925-003	LIMING, DAVID L	Northeast Natural Energy LLC	12.5% or Greater	1564	410
G	WV-061-002854-001	HOWARD, DONNA L	Chesapeake Appalachia, L.L.C.	12.5% or Greater	1425	363
G		Chesapeake Appalachia, L.L.C.	Northeast Natural Energy LLC		120	769
G	WV-061-003909-001	SHUMAN, INC.	Northeast Natural Energy LLC	12.5% or Greater	1564	404
G	WV-061-005316-001	GOODWIN, RONALD	Northeast Natural Energy LLC	12.5% or Greater	1638	637
H	WV-061-002854-001	HOWARD, DONNA L	Chesapeake Appalachia, L.L.C.	12.5% or Greater	1425	363
		Chesapeake Appalachia, L.L.C.	Northeast Natural Energy LLC		120	769
H	WV-061-003566-001	HUMPHREY, CATHERINE	Northeast Natural Energy LLC	12.5% or Greater	1551	44
H	WV-061-003925-001	TENNANT, EDNA J	Northeast Natural Energy LLC	12.5% or Greater	1566	77
H	WV-061-003925-002	KERR, JANET R.	Northeast Natural Energy LLC	12.5% or Greater	1565	678
H	WV-061-003925-003	LIMING, DAVID L	Northeast Natural Energy LLC	12.5% or Greater	1564	410
H	WV-061-003909-001	SHUMAN, INC.	Northeast Natural Energy LLC	12.5% or Greater	1564	404
H	WV-061-005316-001	GOODWIN, RONALD	Northeast Natural Energy LLC	12.5% or Greater	1638	637
I	WV-061-002566-001	SIERS, ROSE	Chesapeake Appalachia, L.L.C.	12.5% or Greater	1429	711
		Chesapeake Appalachia, L.L.C.	Northeast Natural Energy LLC		120	769
I	WV-061-002332-015	TENNANT, EDWARD	Chesapeake Appalachia, L.L.C.	12.5% or Greater	1422	517
		Chesapeake Appalachia, L.L.C.	Northeast Natural Energy LLC		120	769
I	WV-061-002332-014	TENNANT, STEPHEN	Chesapeake Appalachia, L.L.C.	12.5% or Greater	1422	521
		Chesapeake Appalachia, L.L.C.	Northeast Natural Energy LLC		120	769
I	WV-061-004152-001	BUTCHER, RICHA	Northeast Natural Energy LLC	12.5% or Greater	1579	584
I	WV-061-002332-013	TENNANT, DELILA	Chesapeake Appalachia, L.L.C.	12.5% or Greater	120	769
		Chesapeake Appalachia, L.L.C.	Northeast Natural Energy LLC		120	769
I	WV-061-002332-020	TENNANT, RUSSEL	Northeast Natural Energy LLC	12.5% or Greater	1612	626
I	WV-061-002332-019	VARNER, GERALDI	Northeast Natural Energy LLC	12.5% or Greater	1613	316
I	WV-061-002332-035	TROY, JENNIFER	Northeast Natural Energy LLC	12.5% or Greater	1660	392
I	WV-061-002332-036	TROY, VERNON	Northeast Natural Energy LLC	12.5% or Greater	1671	358
I	WV-061-002332-028	TAYLOR, HOPE L.	Northeast Natural Energy LLC	12.5% or Greater	1628	391
I	WV-061-002332-029	ROBEY, JASON D	Northeast Natural Energy LLC	12.5% or Greater	1628	393
I	WV-061-002332-021	WHITE, LISA D.	Northeast Natural Energy LLC	12.5% or Greater	1620	469
I	WV-061-002332-032	ROBEY, ROBERT B	Northeast Natural Energy LLC	12.5% or Greater	1630	191
I	WV-061-004153-001	BRUMMAGE, TERRY	Northeast Natural Energy LLC	12.5% or Greater	1579	588
I	WV-061-002566-002	TENNANT, BERNIC	Chesapeake Appalachia, L.L.C.	12.5% or Greater	1426	757
		Chesapeake Appalachia, L.L.C.	Northeast Natural Energy LLC		120	769
I	WV-061-002332-008	SIERS, RICHARD	Chesapeake Appalachia, L.L.C.	12.5% or Greater	1425	174
		Chesapeake Appalachia, L.L.C.	Northeast Natural Energy LLC		120	769
I	WV-061-002332-009	GABELMAN, JANET	Chesapeake Appalachia, L.L.C.	12.5% or Greater	1425	170
		Chesapeake Appalachia, L.L.C.	Northeast Natural Energy LLC		120	769
I	WV-061-002332-011	FLINT, RONALD	Chesapeake Appalachia, L.L.C.	12.5% or Greater	1425	162
		Chesapeake Appalachia, L.L.C.	Northeast Natural Energy LLC		120	769

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Operators Well No. Michael Northeast 5H

I	WV-061-002332-010	BESS, BARBARA	Chesapeake Appalachia, L.L.C.	12.5% or Greater	1425	166
		Chesapeake Appalachia, L.L.C.	Northeast Natural Energy LLC		120	769
I	WV-061-002332-017	RILEY, JUDY K.	Northeast Natural Energy LLC	12.5% or Greater	1605	674
I	WV-061-002332-018	TENNANT, DANIEL	Northeast Natural Energy LLC	12.5% or Greater	1605	676
I	WV-061-002332-005	TENNANT, DAVID	Chesapeake Appalachia, L.L.C.	12.5% or Greater	1407	308
		Chesapeake Appalachia, L.L.C.	Northeast Natural Energy LLC		120	769
I	WV-061-002332-007	TENNANT, JERRY	Chesapeake Appalachia, L.L.C.	12.5% or Greater	1425	307
		Chesapeake Appalachia, L.L.C.	Northeast Natural Energy LLC		120	769
I	WV-061-002332-006	TENNANT, FLOYD	Chesapeake Appalachia, L.L.C.	12.5% or Greater	1454	702
		Chesapeake Appalachia, L.L.C.	Northeast Natural Energy LLC		120	769
I	WV-061-002332-012	MOORE, RUBY & R	Chesapeake Appalachia, L.L.C.	12.5% or Greater	1421	355
		Chesapeake Appalachia, L.L.C.	Northeast Natural Energy LLC		120	769
I	WV-061-002514-001	FRANCIS, SANDRA	Chesapeake Appalachia, L.L.C.	12.5% or Greater	1415	849
		Chesapeake Appalachia, L.L.C.	Northeast Natural Energy LLC		120	769
I	WV-061-002332-022	TENNANT, EDGAR	Northeast Natural Energy LLC	12.5% or Greater	1623	1
I	WV-061-002332-025	TENNANT, WILLIA	Northeast Natural Energy LLC	12.5% or Greater	1628	385
I	WV-061-002332-034	TENNANT, LLOYD	Northeast Natural Energy LLC	12.5% or Greater	1638	484
I	WV-061-002332-030	HARRIS, LOUISE	Northeast Natural Energy LLC	12.5% or Greater	1628	395
I	WV-061-002332-031	ATHEY, SHELBY	Northeast Natural Energy LLC	12.5% or Greater	1634	494
I	WV-061-002332-027	ATHEY, DESTINY	Northeast Natural Energy LLC	12.5% or Greater	1628	389
I	WV-061-002332-026	JEWELL, DAWN ET	Northeast Natural Energy LLC	12.5% or Greater	1628	387
I	WV-061-002332-023	WILSON, LYNETTE	Northeast Natural Energy LLC	12.5% or Greater	1623	3
I	WV-061-002332-024	TENNANT, DOUGLA	Northeast Natural Energy LLC	12.5% or Greater	1623	5

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As filed with the Securities and Exchange Commission on November 13, 2017

Registration No. 333-202054

**UNITED STATES
SECURITIES AND EXCHANGE COMMISSION**
Washington, D.C. 20549

POST-EFFECTIVE AMENDMENT NO. 1 TO

FORM S-3

**REGISTRATION STATEMENT NO. 333-202054
UNDER
THE SECURITIES ACT OF 1933**

EQT RE, LLC

(successor in interest to RICE ENERGY INC.)
(Exact name of registrant as specified in its charter)

Delaware
(State or other jurisdiction
of incorporation or organization)

82-2738937
(I.R.S. Employer
Identification No.)

**625 Liberty Avenue, Suite 1700
Pittsburgh, Pennsylvania 15222
(412) 553-5700**

(Address, including zip code, and telephone number, including area code, of registrant's principal executive offices)

**Robert J. McNally
Senior Vice President
c/o EQT Corporation**

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Office of Oil and Gas

JAN 27 2020

WV Department of
Environmental Protection

625 Liberty Avenue, Suite 1700
Pittsburgh, Pennsylvania 15222
(412) 553-5700

(Name, address, including zip code, and telephone number, including area code, of agent for service)

If the only securities being registered on this Form are being offered pursuant to dividend or interest reinvestment plans, please check the following box:

If any of the securities being registered on this Form are to be offered on a delayed or continuous basis pursuant to Rule 415 under the Securities Act of 1933, other than securities offered only in connection with dividend or interest reinvestment plans, check the following box:

If this Form is filed to register additional securities for an offering pursuant to Rule 462(b) under the Securities Act, please check the following box and list the Securities Act registration statement number of the earlier effective registration statement for the same offering.

If this Form is a post-effective amendment filed pursuant to Rule 462(c) under the Securities Act, check the following box and list the Securities Act registration statement number of the earlier effective registration statement for the same offering.

If this Form is a registration statement pursuant to General Instruction I.D. or a post-effective amendment thereto that shall become effective upon filing with the Commission pursuant to Rule 462(e) under the Securities Act, check the following box.

If this Form is a post-effective amendment to a registration statement filed pursuant to General Instruction I.D. filed to register additional securities or additional classes of securities pursuant to Rule 413(b) under the Securities Act, check the following box.

Indicate by check mark whether the registrant is a large accelerated filer, an accelerated filer, a non-accelerated filer, a smaller reporting company, or an emerging growth company. See the definitions of "large accelerated filer," "accelerated filer," "smaller reporting company," and "emerging growth company" in Rule 12b-2 of the Exchange Act.

Large accelerated filer

Accelerated filer

Non-accelerated filer
(Do not check if a
smaller reporting company)

Smaller reporting company
Emerging growth company

If an emerging growth company, indicate by check mark if the registrant has elected not to use the extended transition period for complying with any new or revised financial accounting standards provided pursuant to Section 7(a)(2)(B) of the Securities Act.

DEREGISTRATION OF SECURITIES

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WV Department of
Environmental Protection

This Post-Effective Amendment No. 1 relates to the following registration statement of Rice Energy Inc. ("Rice"), on Form S-3 (the "Registration Statement") filed by Rice with the Securities and Exchange Commission (the "SEC"):

- Registration Statement No. 333-202054, which was filed with the SEC on February 12, 2015, and pursuant to which the sale or issuance by Rice of the following securities was registered:
 - shares of common stock, par value \$0.01 per share, of Rice ("Rice Common Stock");
 - shares of preferred stock, par value \$0.01 per share, of Rice;
 - depositary shares;
 - warrants; and
 - debt securities of Rice, which were contemplated to include senior or subordinated debt, and which were contemplated to have been possibly guaranteed by certain of the Registrant's (as defined below) current or former subsidiaries, including Rice Marketing LLC, Rice Energy Marketing LLC, Rice Energy Operating LLC (f/k/a Rice Energy Appalachia, LLC), Rice Drilling B LLC, Rice Drilling C LLC, Rice Drilling D LLC, Blue Tiger Oilfield Services LLC, Alpha Shale Holdings, LLC and Alpha Shale Resources, LP.

In addition, the Registration Statement also registered the sale of shares of Rice Common Stock by certain selling stockholders in one or more secondary offerings.

On November 13, 2017, pursuant to the Agreement and Plan of Merger (the "Merger Agreement"), dated as of June 19, 2017 (as amended by Amendment No. 1 thereto dated as of October 26, 2017), by and among EQT Corporation ("EQT"), Eagle Merger Sub I, Inc. ("Merger Sub") and Rice, Merger Sub merged with and into Rice (the "Merger"), with the result that Rice became a direct, wholly owned subsidiary of EQT. As a result of the Merger, each issued and outstanding share of Rice Common Stock (other than shares of Rice Common Stock held by EQT or certain of its subsidiaries, shares held by Rice in treasury or shares with respect to which appraisal was properly demanded pursuant to Delaware law) was converted into the right to receive 0.37 of a share of common stock of EQT, no par value, and \$5.30 in cash, without interest and subject to applicable withholding taxes. Immediately after the effective time of the Merger, the surviving corporation in the Merger was merged with and into EQT RE, LLC ("EQT RE"), a wholly owned indirect subsidiary of EQT, with EQT RE surviving the second merger.

As a result of the transactions contemplated by the Merger Agreement, EQT RE, as the successor in interest to Rice (the "Registrant"), has terminated all offerings of Rice's securities pursuant to its existing registration statements, including the Registration Statement. In that regard, and for the avoidance of doubt, the selling stockholders under the Registration Statement no longer own any shares of Rice Common Stock as a result of the Merger.

Accordingly, the Registrant hereby terminates the effectiveness of the Registration Statement and, in accordance with undertakings made by Rice in the Registration Statement to remove from registration, by means of a post-effective amendment, any securities that had been registered for issuance but remain unsold at the termination of the offering, removes from registration any and all securities that had been registered for issuance but remain unsold under the Registration Statement. The Registration Statement is hereby amended, as appropriate, to reflect the deregistration of such securities.

SIGNATURES

Pursuant to the requirements of the Securities Act of 1933, the Registrant certifies that it has reasonable grounds to believe that it meets all of the requirements for filing on Form S-3 and has duly caused this Post-Effective Amendment No. 1 to the Registration Statement to be signed on its behalf by the undersigned, thereunto duly authorized, in the City of Pittsburgh, Commonwealth of Pennsylvania, on this 13th day of November, 2017. No other person is required to sign this Post-Effective Amendment No. 1 to the Registration Statement in reliance upon Rule 478 under the Securities Act of 1933, as amended.

EQT RE, LLC (successor in interest to RICE ENERGY INC.)

By: /s/ Robert J. McNally
Name: Robert J. McNally
Title: Senior Vice President

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northeast
NATURAL ENERGY

October 7, 2019

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

Re: Michael 3H and 5H

Dear Permit Reviewer:

Please be advised that Northeast Natural Energy LLC has the right to drill, extract, and produce the minerals beneath the roads identified as Statler Run Rd (SR 27) and SR 27/8 on the enclosed survey plats.

Sincerely,

Charles M. Dornetto
Manager – Land Acquisitions

WW-6AC
(1/12)

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

Date of Notice Certification: 10/07/2019

API No. 47- _____ - _____

Operator's Well No. 5H

Well Pad Name: Michael

Notice has been given:

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

State:	<u>West Virginia</u>	UTM NAD 83	Easting:	<u>570064.5</u>
County:	<u>Monongalia</u>		Northing:	<u>4386492.8</u>
District:	<u>Clay</u>	Public Road Access:	<u>Statter Run Rd/WV-27</u>	
Quadrangle:	<u>Blacksville, WV</u>	Generally used farm name:	<u>Michael</u>	
Watershed:	<u>Dunkard Creek</u>			

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

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 <input type="checkbox"/> 1. NOTICE OF SEISMIC ACTIVITY or <input checked="" type="checkbox"/> NOTICE NOT REQUIRED BECAUSE NO SEISMIC ACTIVITY WAS CONDUCTED <input checked="" type="checkbox"/> 2. NOTICE OF ENTRY FOR PLAT SURVEY or <input type="checkbox"/> NO PLAT SURVEY WAS CONDUCTED <input checked="" type="checkbox"/> 3. NOTICE OF INTENT TO DRILL or <input type="checkbox"/> NOTICE NOT REQUIRED BECAUSE NOTICE OF ENTRY FOR PLAT SURVEY WAS CONDUCTED or <input type="checkbox"/> WRITTEN WAIVER BY SURFACE OWNER (PLEASE ATTACH) <input checked="" type="checkbox"/> 4. NOTICE OF PLANNED OPERATION <input checked="" type="checkbox"/> 5. PUBLIC NOTICE <input checked="" type="checkbox"/> 6. NOTICE OF APPLICATION		<p align="center">OOG OFFICE USE ONLY</p> <input type="checkbox"/> RECEIVED/NOT REQUIRED <input type="checkbox"/> RECEIVED <input checked="" type="checkbox"/> RECEIVED/NOT REQUIRED <input type="checkbox"/> RECEIVED <input type="checkbox"/> RECEIVED <input checked="" type="checkbox"/> RECEIVED
<p>RECEIVED Office of Oil and Gas</p> <p>OCT 15 2019</p> <p>WV Department of Environmental Protection</p>		

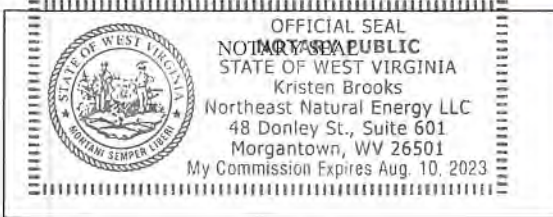
Required Attachments:

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.

Certification of Notice is hereby given:

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

Well Operator:	<u>Northeast Natural Energy, LLC</u>	Address:	<u>707 Virginia St. E., Suite 1200</u>
By:	<u>Hollie Medley</u>		<u>Charleston, WV 25301</u>
Its:	<u>Regulatory Manager</u>	Facsimile:	<u>304-241-5972</u>
Telephone:	<u>304-241-5752</u>	Email:	<u>hmedley@nne-llc.com</u>



Hollie Medley
 Subscribed and sworn before me this 7th day of October, 2019
Kristen Brooks Notary Public
 My Commission Expires August 10, 2023

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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Environmental Protection

WW-6A
(9-13)

API NO. 47-
OPERATOR WELL NO. 5H
Well Pad Name: Michael

47 06 018 63

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: 10/02/2019 Date Permit Application Filed: 10/12/2019

Notice of:

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

OCT 15 2019

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

WV Department of
Environmental Protection

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

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

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

SURFACE OWNER(s)
Name: William F. Michael Jr.
Address: 217 Augusta Ave
Mannington, WV 26582

COAL OWNER OR LESSEE
Name: Consolidation Coal Company
Address: 1000 Consol Energy Drive
Canonsburg, PA 15317

Name: Clarence Statter
Address: 1247 Kennedy Run Road
Rivesville, WV 26588

COAL OPERATOR
Name:
Address:

SURFACE OWNER(s) (Road and/or Other Disturbance)
Name: See Attached
Address:

SURFACE OWNER OF WATER WELL AND/OR WATER PURVEYOR(s)
Name: Raymond E. & Ruth S. Perko
Address: 421 Peter Eddy Rd.
Rivesville, WV 26588

Name:
Address:

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

OPERATOR OF ANY NATURAL GAS STORAGE FIELD
Name:
Address:

*Please attach additional forms if necessary

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Environmental Protection

MICHAEL 5H
WW-6A ATTACHMENT

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

Yost & Yost Pipe Co.
2575 Daybrook Rd
Fairview, WV 26570

Buddy B. Ammons
859 Statler Run Road
Fairview, WV 26570

John G. & Patricia Conaway
1811 Pleasant Valley Rd
Fairmont, WV 26554

Darrell E. Eddy
726 Long St.
Bridgeport, WV 26330

Roger A. Tulanowski & Ronald T. Tulanowski
PO Box 182
Ida May, WV 26576

Nina F Eddy
235 Deerfield Circle
Kingwood, WV 26537

Shuman Incorporated
256 High St
Morgantown, WV 26501

Brian Kyle Lemley
1564 Daybrook Rd
Fairview, WV 26570

William W Jr & Rachel L Knisley
352 Hackelbender Run Rd
Mt. Morris, PA 15349

WW-6A
(8-13)

OCT 15 2019

API NO: 47- 47-08-01063
OPERATOR WELL NO. SH
Well Pad Name: Michael

WV Department of
Environmental Protection

Notice is hereby given:

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

This Notice Shall Include:

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

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

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

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

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

Well Location Restrictions

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

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

Water Well Testing:

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

Water Testing Laboratories:

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

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

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

Written Comment:

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

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

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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.**

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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Department of
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WW-6A
(8-13)

API NO. 47-470601863
OPERATOR WELL NO. 5H
Well Pad Name: Michael

Notice is hereby given by:

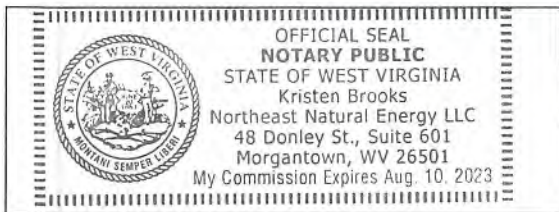
Well Operator: Northeast Natural Energy LLC
Telephone: 304-414-7060
Email: hmedley@nne-llc.com

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

Oil and Gas Privacy Notice:

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

Hall: mmedley



Subscribed and sworn before me this 1st day of October, 2019
Kristen Brooks Notary Public
My Commission Expires Aug 10, 2023

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WV Department of
Environmental Protection

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: 03/08/2019 **Date of Planned Entry:** 03/18/2019

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 Attached
Address: _____

Name: _____
Address: _____

Name: _____
Address: _____

COAL OWNER OR LESSEE

Name: See Attached
Address: _____

MINERAL OWNER(s)

Name: See Attached
Address: _____

*please attach additional forms if necessary

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OCT 15 2019
WV Department of Environmental Protection

Notice is hereby given:

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

State:	<u>West Virginia</u>	Approx. Latitude & Longitude:	<u>39.624812, -80.183343</u>
County:	<u>Monongalia</u>	Public Road Access:	<u>Robinson Run Road</u>
District:	<u>Clay</u>	Watershed:	<u>Dunkard Creek</u>
Quadrangle:	<u>Grant Town Quad</u>	Generally used farm name:	<u>Michael</u>

Copies of the state Erosion and Sediment Control Manual and the statutes and rules related to oil and gas exploration and production may be obtained from the Secretary, at the WV Department of Environmental Protection headquarters, located at 601 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:	<u>Northeast Natural Energy LLC</u>	Address:	<u>707 Virginia St. E, Suite 1200</u>
Telephone:	<u>304-212-0445</u>		<u>Charleston, WV 25301</u>
Email:	<u>hmedley@nne-llc.com</u>	Facsimile:	<u>304-241-5972</u>

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.

Surface Owner	Address
Clarence E. & Patricia A. Statler	1247 Kennedy Run Rd. Rivesville Wv 26588
William F. Michael Jr.	217 Augusta Ave. Mannington Wv 26582
Nina F. Eddy	235 Deerfield Cir. Kingwood, Wv 26537
Doris E. Snyder	128 Diamond Court Morgantown, Wv 26505
Brian Kyle Lemley	1564 Daybrook Rd. Fairview, Wv 26570
Marion A. & Odra R. Mitchell	1562 Kennedy Run Rd. Rivesville Wv 26588
Dorothy West Estate	4797 Brownsville Rd. Pittsburgh Pa 15236
William E. Jr. & Rachel L. Knisley	352 Hackel Bender Run Rd. Mt Morris Pa 15349

Coal Owner	Address
Consolidation Coal Company	1000 Consol Energy Drive Canonsburg, PA 15317

Mineral Owner	Address
Aleda Meredith, married	329 Marion St Fairmont, WV 26554
Bonnie Jean Colosino, married	17 Melrose Dr Destrehan, LA
David L. Rogers, married	3286 Regina Ave. Lorain, OH 44052
Debra L. Rogers, single	15 Chestnut St., Apt. 10 Elyria, OH 44035
Donna J. Rogers Hyer Hovatter, married	39565 Butternut Ridge Road Elyria, OH 44035
Haymaker Properties, LP	PO Box 206200 Dallas, TX 75320
John Walker, married	154 Belhar Rd. Fairview, WV 26570
Karen Rose Tennant Bartolina, widow	13 Marcus Drive Morgantown, WV 26501
Kathy A. Rogers Keener, married	2000 Nixon Chapel Rd Albertville, AL 35950
Leonidas Properties, LLC	119 N. Morris Street Waynesburg, PA 15370
Lewis D. Runion, married	27 Keith St. Fairmont, WV 26554
Lisa G. Rogers Reed, married	11379 Pyle South Amherst Road Oberlin, OH 44074
Mary Rose Walker	PO Box 58145 Charleston, WV 25358
Mary Walker, single	434 Statler Run Road #19 Fairview, WV 26570
Minerva Jane Abshire Tennant, single	2154 Golf Course Road Martinsburg, WV 25405
Nancy L. Born	PO Box 562 Snow Camp, NC 27349
Randy L. Rogers, married	364 Bon Air Ave. Elyria, OH 44035
Rodney A. Rogers, married	350 Berkshire Dr. Vermilion, OH 44089
Sharon Lynne Tennant, single	PO Box 235 Grant Town, WV 26574
Sheila A. Rodgers, married	976 Country Road 175 Polk, OH 44866
Stanley Walker	54 Santee Run Rd. Hundred, WV 26575
Susan J. Rogers Brown, married	334 South Williams St Paulding, OH 15879
W. Gail Angelone	113 Lloyd Ave North Versailles, Pa 15317
William Dale Walker, Jr., married	1128 Village Way Fairmont, WV 26554
William Rogers, married	1550 Country Road 150 Millersburg, OH 44654
Winnie V. Michael, single	102 First St Rivesville, WV 26588
XTO Energy, Inc.	PO Box 53 Houston, TX 77001

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

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

Notice Time Requirement: Notice shall be provided at least **TEN (10)** days prior to filing a permit application. **RECEIVED**
Date of Notice: 10/02/2019 **Date Permit Application Filed:** 10/12/2019 **Office of Oil and Gas**

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

 **OCT 15 2019**

HAND DELIVERY **CERTIFIED MAIL RETURN RECEIPT REQUESTED**

WV Department of Environmental Protection

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: William F Michael Jr
Address: 217 Augusta Ave
Mannington, WV 26582

Name: Clarence Statler
Address: 1247 Kennedy Run Road
Rivesville, WV 26588

Notice is hereby given:

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

State: West Virginia UTM NAD 83 Easting: 570064.5
County: Monongalia Northing: 4386492.8
District: Clay Public Road Access: Statter Run Rd/WV-27
Quadrangle: Blacksville Generally used farm name: Michael
Watershed: Dunkard Creek

This Notice Shall Include:

Pursuant to West Virginia Code § 22-6A-16(b), this notice shall include the name, address, telephone number, and if available, facsimile number and electronic mail address of the operator and the operator's authorized representative. Additional information related to horizontal drilling may be obtained from the Secretary, at the WV Department of Environmental Protection headquarters, located at 601 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 St. E, Suite 1200
Charleston, WV 25301
Telephone: 304-414-7060
Email: _____
Facsimile: _____

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

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.

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: 10/02/2019 **Date Permit Application Filed:** 10/12/2019

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

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: William F Michael Jr
Address: 217 Augusta Ave
Mannington, WV 26582

Name: Clarence Statter
Address: 1247 Kennedy Run Road
Rivesville, WV 26588

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: 570064.5
County: Monongalia Northing: 4386492.8
District: Clay Public Road Access: Statler Run Rd/WV-27
Quadrangle: Blacksville, WV Generally used farm name: Michael
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
Telephone: 304-414-7060
Email: hmedley@nne-llc.com

Address: 707 Virginia St. E., Suite 1200
Charleston, WV 25301
Facsimile: _____

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.

RECEIVED
Office of Oil and Gas

OCT 15 2019

WV Department of
Environmental Protection

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, _____, 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 _____, 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: <u>West Virginia</u>	UTM NAD 83	Easting: <u>570064.5</u>
County: <u>Monongalia</u>		Northing: <u>4386492.8</u>
District: <u>Clay</u>	Public Road Access: _____	<u>Statler Run Rd/WW-27</u>
Quadrangle: <u>Blacksville, WV</u>	Generally used farm name: _____	<u>Michael</u>
Watershed: <u>Dunkard Creek</u>		

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: William F. Michael Jr
Print Name: WILLIAM F. MICHAEL JR
Date: 10-7-2019

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 of your personal information, please contact DEP's Chief Privacy Officer at depprivacyofficer@wv.gov.

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Office of Oil and Gas

OCT 15 2019

WV Department of
Environmental Protection



4706101863

WEST VIRGINIA DEPARTMENT OF TRANSPORTATION

Division of Highways

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

Byrd E. White, III
Secretary of Transportation/
Commissioner of Highways

October 11, 2019

Jimmy Wriston, P. E.
Deputy Secretary/
Deputy Commissioner

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

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Office of Oil and Gas

OCT 15 2019

WV Department of
Environmental Protection

Subject: DOH Permit for the Pad, Monongalia County
Michael 5H

Dear Mr. Martin,

This well site will be accessed from a DOH permit #04-2019-0897 which has been applied for by Northeast Natural Energy for access to the State Road for a well site located off Monongalia County Route 27/3 SLS. No construction of the approach will begin until the approved permit is received by company.

This operator is in compliance with §22-6A-20 of the WV Code. 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 October 1, 2018.

Very Truly Yours,

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

Cc: Hollie Medley
Northeast Natural Energy
CH, OM, D-6
File

Planned Additives to be used in Fracturing Stimulations

Trade Name	Purpose	Ingredients	Cemical Abstract Service Numner (CAS#)
Water	Carrier	Water	7732-18-5
HCl, 10.1-15%	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 Polyzoalkylenes Propargyl Alcohol	NA 67-56-1 NA NA 107-19-7
GW-3LDF	Gelling Agent	Guar Gum Petroleum Distillate Blend	9000-30-0 CBI
FRW-18	Friction Reducer	Hydrotreated Light Distillate	64742-47-8
Ferrotrol 300L	Iron Crontrol	Citric Acid	77-92-9
Sand, White, 40/70	Proppant	Cystalline Silica (Quartz)	14808-60-7
Sand, White, 100 mesh	Proppant	Cystalline Silica (Quartz)	14808-60-7
Scaletrol 720	Scale Inhibitor	Diethylene Glycol	111-46-6

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 Office of Oil and Gas
OCT 15 2019
 WV Department of
 Environmental Protection

4706 01865

MICHAEL WELL PAD CLAY DISTRICT, MONONGALIA COUNTY, WV AUGUST 2019

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#19108281580)

OWNER



SHEET INDEX

1. TITLE SHEET

2-3. EVACUATION ROUTE/PREVAILING WIND
4. E&S CONTROL LAYOUT OVERVIEW
5-14. E&S CONTROL LAYOUT
15. E&S CONTROL AND SITE PLAN OVERVIEW
16-25. E&S CONTROL AND SITE PLAN
26. WELL PAD CROSS-SECTIONS
27. UNDER DRAIN PROFILES
28-41. ACCESS ROAD CROSS-SECTIONS
42-44. ACCESS ROAD PROFILE
45-48. DETAILS
49. RECLAMATION PLAN OVERVIEW
50-58. RECLAMATION PLAN

TOTAL LIMITS OF DISTURBANCE: 68.97 AC.
ACCESS ROAD DISTURBANCE AREA: 47.98 AC.
WELL PAD DISTURBANCE AREA: 20.99 AC.

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



ANDREW BENCHEK
P.E.

PROPERTY PROJECT BOUNDARY ACREAGE

- YOST & YOST PIPE CO. (TAX MAP AND PARCEL 4-20-46): 57 AC.
- JOHN G. & PATRICIA CONAWAY (TAX MAP AND PARCEL 4-25-08): 0.80 AC.
- JOHN G. & PATRICIA CONAWAY (TAX MAP AND PARCEL 4-25-03): 0.02 AC.
- DARRELL E. EDDY & ALMADA J. EDDY (TAX MAP AND PARCEL 4-20-47): 5.85 AC.
- ROGER A. TULJANOWSKI & RONALD T. TULJANOWSKI (TAX MAP AND PARCEL 4-25-7): 3.60 AC.
- HAYHURST COMPANY (TAX MAP AND PARCEL 4-25-45): 0.13 AC.
- GILBERT GLENN & NINA K EDDY (TAX MAP AND PARCEL 04-20-47-3): 3.13 AC.
- SHUMAN INCORPORATED (TAX MAP AND PARCEL 04-20-48): 6.34 AC.
- BRYAN KYLLE LEMLEY (TAX MAP AND PARCEL 04-20-49): 5.42 AC.
- BRYAN KYLLE LEMLEY (TAX MAP AND PARCEL 04-20-58): 8.72 AC.
- BUDDY B. ARMIGNS (TAX MAP AND PARCEL 04-20-59): 0.58 AC.
- WILLIAM F. MICHAEL JR (TAX MAP AND PARCEL 04-20-57): 10.72 AC.
- WILLIAM W JR & RACHEL L. KNISLEY (TAX MAP AND PARCEL 04-20-56): 6.48 AC.
- CLARENCE STATLER (TAX MAP AND PARCEL 04-25-16-1): 3.87 AC.
- WILLIAM F MICHAEL JR (TAX MAP AND PARCEL 04-25-23-2): 5.95 AC.
- CLARENCE STATLER (TAX MAP AND PARCEL 04-25-17): 4.71 AC.
- CLARENCE STATLER (TAX MAP AND PARCEL 04-25-22-1): 0.47 AC.

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.



REVISIONS	
NO/DATE	DESCRIPTION

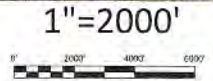
TITLE SHEET
MICHAEL WELL PAD
CLAY DISTRICT, MONONGALIA COUNTY, WV

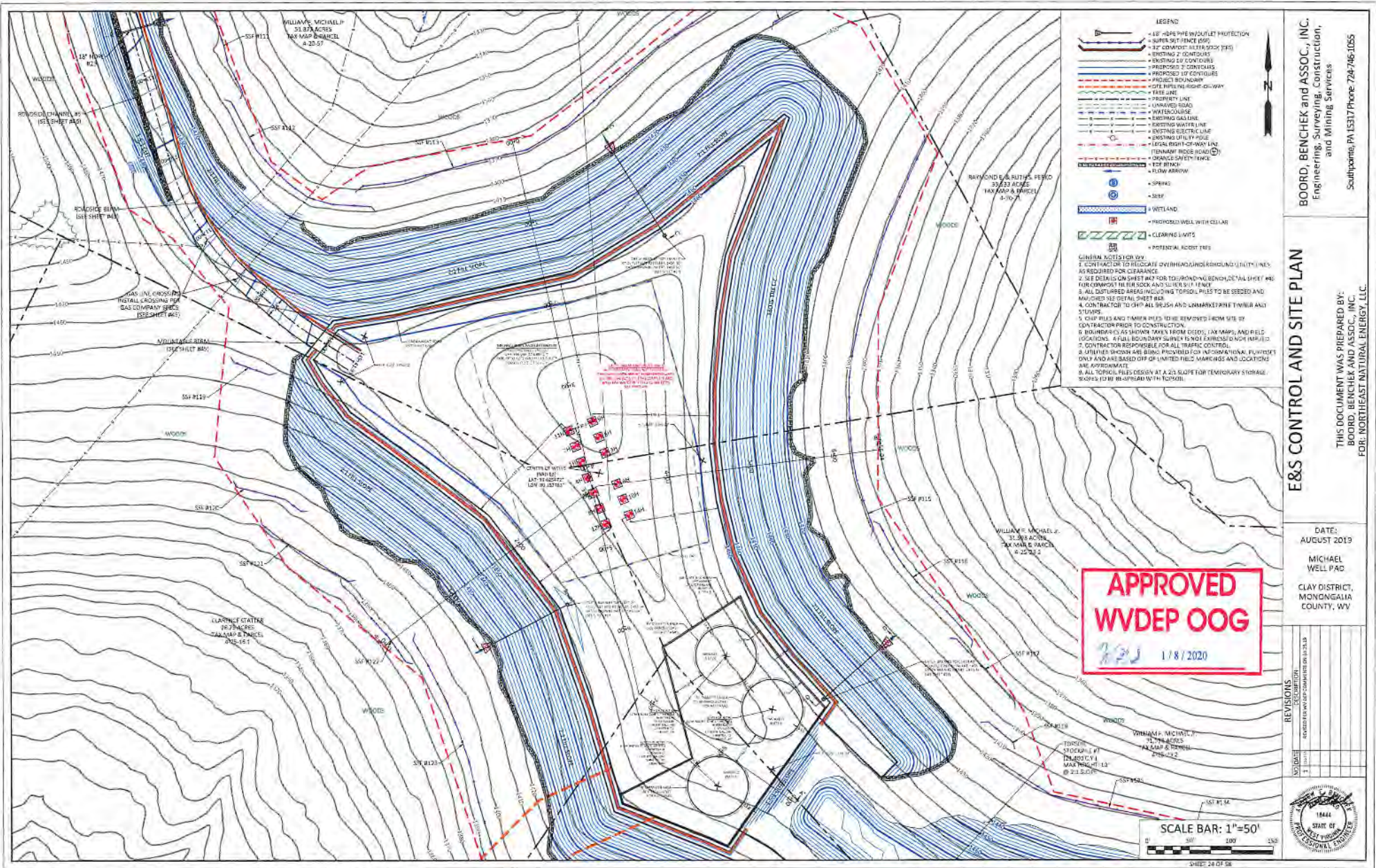
SHEET
1
OF
58

COORDINATES

SITE ENTRANCE (NAD 83)
LAT: 39° 37' 40.43"
LONG: 80° 12' 49.36"
(NAD 27)
LAT: 39° 37' 40.14"
LONG: 80° 12' 50.09"

CENTER OF WELLS (NAD 83)
LAT: 39° 37' 31.69"
LONG: 80° 11' 01.54"
(NAD 27)
LAT: 39° 37' 31.40"
LONG: 80° 11' 02.27"





- LEGEND**
- 4" HDPE PIPE W/OUTLET PROTECTION
 - SURVEY POINT (SP)
 - 3" COMPACT ALUMINUM SPOCK (S)
 - EXISTING 2" CONTOURS
 - PROPOSED 2" CONTOURS
 - PROPOSED 10' CONTOURS
 - PROJECT BOUNDARY
 - OFF-HIGHWAY RIGHT-OF-WAY
 - FIRE LINE
 - PROPERTY LINE
 - UNPAVED ROAD
 - WATER COURSE
 - EXISTING DRAINAGE
 - EXISTING WATER LINE
 - EXISTING ELECTRIC LINE
 - EXISTING UTILITY POLE
 - LEGAL RIGHT-OF-WAY LINE
 - TEMPORARY WIDE ROAD
 - ORGANIC MATTER TRAIL
 - TREE BRANCH
 - SLOW ARROW
 - SPRINK
 - SEEP
 - WETLAND
 - PROPOSED WELL WITH CELLAR
 - CLEARING SWATHS
 - POTENTIAL ACCIDENT TREE
- GENERAL NOTATION: WY**
1. CONTRACTOR TO RELOCATE OVERHEAD UNDERGROUND UTILITIES AS REQUIRED FOR CLEARANCE
 2. SEE DETAILS ON SHEET WY FOR TOLERANCE BENCHMARK DETAIL SHEET ARE FOR COMMON TO THE SPOCK AND SURVEY POINT
 3. ALL DISTURBED AREAS INCLUDING TOPSOIL PILES TO BE SEEDED AND MULCHED PER DETAIL SHEET WY
 4. CONTRACTOR TO CHOP ALL BRUSH AND LOGS/STUMP/TIMBER AND STUMPS
 5. CHIP PILLS AND TAMPING PILLS TO BE REMOVED FROM SITE BY CONTRACTOR PRIOR TO CONSTRUCTION
 6. BOUNDARIES AS SHOWN TAKEN FROM DEEDS, TAX MAPS, AND FIELD LOCATIONS. AT ALL BOUNDARY SURVEYS TO NOT EXCEED TO RIGHT OR LEFT
 7. CONTRACTOR RESPONSIBLE FOR ALL TRAFFIC CONTROL
 8. UTILITIES SHOWN ARE BEING PROVIDED FOR INFORMATIONAL PURPOSES ONLY AND ARE BASED OFF OF LIMITED FIELD MARKINGS AND LOCATIONS ARE APPROXIMATE
 9. ALL TOPSOIL PILES DESIGN AT A 2:1 SLOPE FOR TEMPORARY STORAGE. SPOCKS TO BE IN STREAM IN THE TOPSOIL

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

E&S CONTROL AND SITE PLAN

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

DATE:
 AUGUST 2019
 MICHAEL
 WELL PAD
 CLAY DISTRICT,
 MONONGALIA
 COUNTY, WV

APPROVED
WVDEP OOG
 JPS 1/8/2020

SCALE BAR: 1"=50'

REVISIONS

NO.	DATE	DESCRIPTION
1	11/15/2019	REVISION FOR SUBMITTAL ON 11/23/19

