



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

Harold D. Ward, Cabinet Secretary
www.dep.wv.gov

Monday, December 19, 2022
WELL WORK PERMIT
Horizontal 6A / New Drill

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

Re: Permit approval for SULLIVAN 1H
47-061-01917-00-00

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

A blue ink signature of James A. Martin, written in a cursive style, is placed over the printed name and title.

Operator's Well Number: SULLIVAN 1H
Farm Name: ALAN SULLIVAN
U.S. WELL NUMBER: 47-061-01917-00-00
Horizontal 6A New Drill
Date Issued: 12/19/2022

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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.
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.

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WW-6B
(04/15)

API NO. 47- _____ - _____
OPERATOR WELL NO. 1H ✓
Well Pad Name: Sullivan ✓

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 | Grant Town
Operator ID County District Quadrangle

2) Operator's Well Number: 1H Well Pad Name: Sullivan

3) Farm Name/Surface Owner: Alan Sullivan Public Road Access: Route 27/1

4) Elevation, current ground: 1,520' Elevation, proposed post-construction: 1,476'

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

(b) If Gas Shallow Deep _____
Horizontal

6) Existing Pad: Yes or No No

7) Proposed Target Formation(s), Depth(s), Anticipated Thickness and Expected Pressure(s):
Marcellus, 8,247', 87', 5200 psi

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8) Proposed Total Vertical Depth: 8,247'

9) Formation at Total Vertical Depth: Marcellus

10) Proposed Total Measured Depth: 22,000'

11) Proposed Horizontal Leg Length: 12,935'

12) Approximate Fresh Water Strata Depths: 50', 1,262'

13) Method to Determine Fresh Water Depths: Drillers logs from offset wells

14) Approximate Saltwater Depths: 2,050', 2,580'

15) Approximate Coal Seam Depths: 500', 1,260'

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: N/A
Depth: _____
Seam: _____
Owner: _____

18)

CASING AND TUBING PROGRAM

TYPE	Size (in)	New or Used	Grade	Weight per ft. (lb/ft)	FOOTAGE: For Drilling (ft)	INTERVALS: Left in Well (ft)	CEMENT: Fill-up (Cu. Ft.)/CTS
Conductor	24"	New	NA	NA	100	100 ✓	GTS
Fresh Water	13-3/8"	New	J-55	54.5	1,505	1,475* ✓	CTS
Coal							
Intermediate	9-5/8"	New	J-55	36	2,680	2,650 ✓	CTS
Production	5-1/2"	New	P-110	20	22,000	21,970 ✓	5,194
Tubing	2-7/8"	New	P-110	6.5	NA		
Liners							

*depth to cover Red Rock formation

Kenneth Greynolds
Digitally signed by Kenneth Greynolds
 DN: cn = Kenneth Greynolds email = Kenneth.L.Greynolds@wv.gov c = AO O = WVDEP OU = Oil and Gas
 Date: 2022.10.31 10:24:54 -0400

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	2,730	500	Class A or L	1.19
Coal							
Intermediate	9-5/8"	12-3/8"	0.395	3,520	2800	Class A or L	1.19
Production	5-1/2"	8-3/4"	0.361	14,360	11,400	50:50 POZ	1.07
Tubing	2-7/8"	NA	0.217	13,870	NA	NA	NA
Liners							

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Kind:				
Sizes:				
Depths Set:				

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 11,200psi 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): 28.65

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22) Area to be disturbed for well pad only, less access road (acres): 15.32

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. Bow springs from KOP to surface every third joint.

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

Surface: Class A or L Cement + Max 3% bwoc Calcium Chloride Fresh Water blend.
Intermediate: Class A or L Cement + Max 3% bwoc Calcium Chloride + Fresh Water.
Production: 50:50 Poz (Fly Ash & Class A or L) plus additives such as defoamer, retarder, & fluid loss to meet well specific requirements

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 Mine Contingency Plan



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

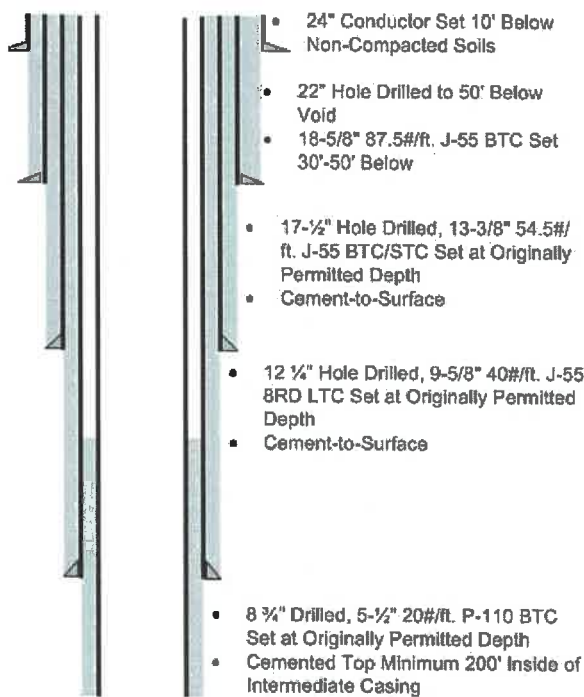
All casings programs submitted to the state incorporate the use of a 24” conductor over the previously used 20” that has long been the industry standard for a typical Marcellus design. The use of 24” conductor casing allows the use of a 22” bit to ream the surface hole, and drill 50’ below the void to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

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

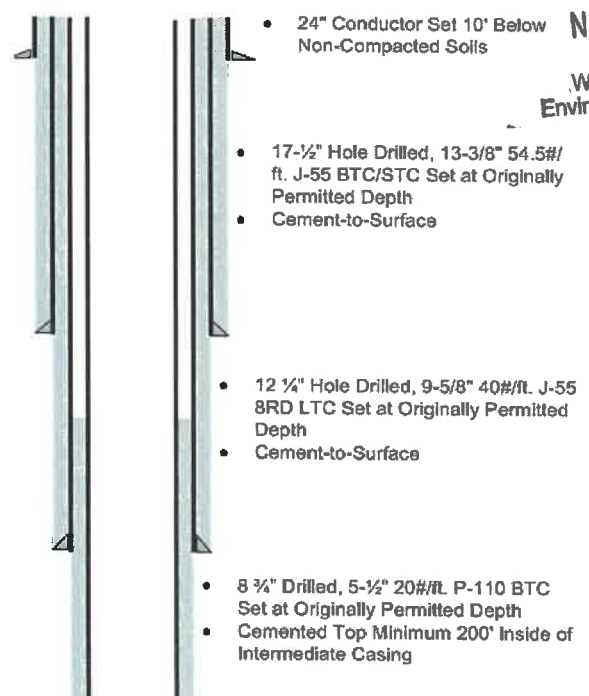
With the use of these string sizes and techniques, the surface and intermediate strings do not need to be altered. After a proper WOC time, the surface section of the well would continue to be drilled with a 17-1/2” bit and the 13-3/8” 54.50#/ft freshwater casing would be set at the originally permitted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

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

Casing Schematic w/ Mine String



Casing Schematic w/o Mine String



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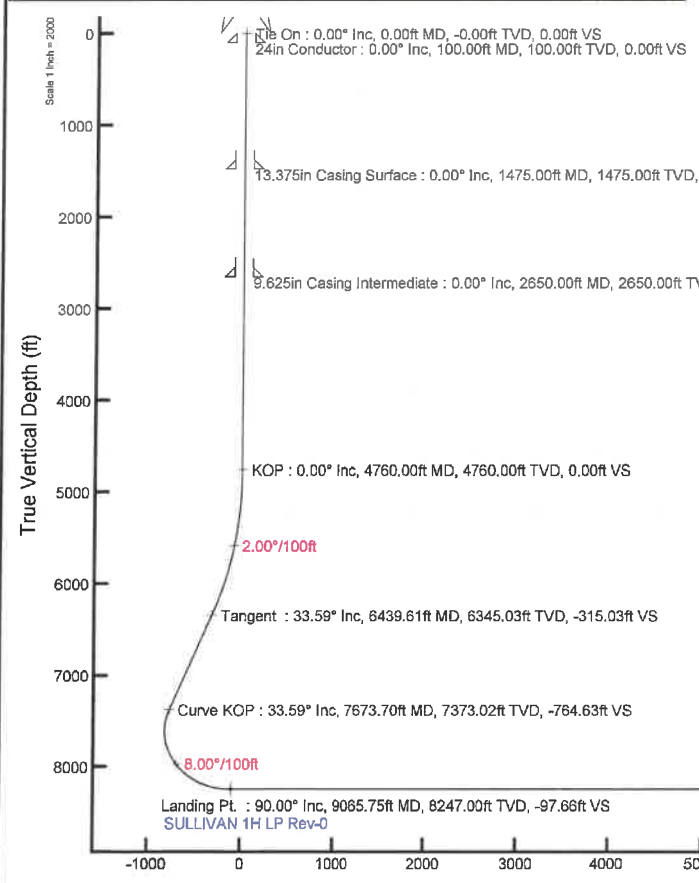
Location: Monongalia County, WV
 Field: Monongalia
 Facility: Sullivan Pad

Slot: Slot #01
 Well: Sullivan 1H
 Wellbore: Sullivan 1H PWB

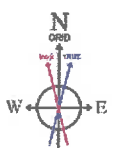
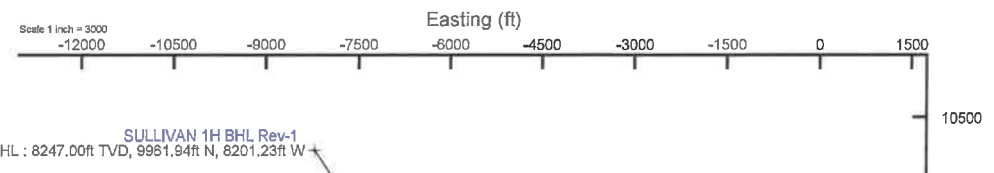


Grid System: NAD83 (Lambert West Virginia SP, Northern Zone (470), US feet)	North Reference: Grid north
The vertical depths are referenced to Ground Level (GL).	Scale: True distance
Reference: Both measured depths are referenced to Ground Level (GL).	Coordinates are in feet referenced to Slot
Ground Level (GL) to Mean Sea Level (MSL): 1476ft	Depth: see log
Mean Sea Level (MSL) to Ground Level (GL): Slot #01: -1476ft	Created by: mchugh on 2022-09-28 Database: WVA_WP_LASTERMIS_Data
Other wellbore IDs are referenced to slot with a default MD value	

Casing Type	Hole Size	Casing Size	Grade	Weight	Casing Depth (GL)	Drill Depth
Conductor	32"	24"	N/A	N/A	100	100
Surface	17.5"	13.375"	J-55	54.5	1475	1505
Intermediate	12.25"	9.675"	J-55	36	2650	2680



Formation	Top (GL)
Tully	8019
Hamilton	8070
Upper Marcellus	8168
Lower Marcellus	8224
Target	8247
Onondaga	8255



HDM2022v1.0 (1900.0 to 2023.0) Dip: 66.95° Field: 51838.2 nT
 Magnetic North is 0.09 degrees West of True North (at 09/28/2022)
 Grid North is 0.46 degrees West of True North
 To correct azimuth from True to Grid add 0.46 degrees
 To correct azimuth from Magnetic to Grid subtract 6.63 degrees

SULLIVAN 1H LP Rev-0
 Landing Pt : 8247.00ft TVD, 807.32ft S, 1037.39ft W
 Curve KOP : 7373.02ft TVD, 1120.67ft S, 304.21ft W
 Tangent : 6345.03ft TVD, 461.72ft S, 125.33ft W
 KOP : 4760.00ft TVD, 0.00ft N, 0.00ft E
 Tie On : -0.00ft TVD, 0.00ft N, 0.00ft E

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BHL : 90.00° Inc, 22000.10ft MD, 8247.00ft TVD, 12836.69ft VS
 SULLIVAN 1H BHL Rev-1

Azimuth 326.37° with reference 0.00 N, 0.00 E



4706101917

October 26, 2022

Attn: Charles Taylor Brewer, Assistant Chief – Permitting
WV Department of Environmental Protection
Office of Oil and Gas
601 57th Street SE
Charleston, WV 25304

Re: Order No. 2022-14

Dear Mr. Brewer,

Northeast Natural Energy (“NNE”) would like to provide notice that it may use American Petroleum Institute (“API”) Class L cement in place of API Class A cement as approved by Order No. 2022-14, attached hereto, on its Sullivan 1H, 3H, 5H, 7H, 9H, and 13H well construction.

Should you have any questions please contact me at 304-212-0422 or by email at hmedley@nne-llc.com.

Sincerely,

A handwritten signature in blue ink that reads 'Hollie M. Medley'.

Hollie M. Medley
Regulatory Manager

707 Virginia Street East · Suite 1200 · Charleston, WV 25301

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west virginia department of environmental protection

Office of Oil and Gas
601 57th Street, SE
Charleston, WV 25304
Phone (304) 926-0450

Harold D. Ward, Cabinet Secretary
dep.wv.gov

**BEFORE THE OFFICE OF OIL AND GAS
DEPARTMENT OF ENVIRONMENTAL PROTECTION
STATE OF WEST VIRGINIA**

**IN THE MATTER OF A VARIANCE FROM)
LEGISLATIVE RULE 35CSR4) ORDER NO. 2022-14
SECTION 11.5 AND LEGISLATIVE RULE)
35CSR8 SECTION 9.2.h.8.,)
RELATING TO THE CEMENTING)
OF OIL AND GAS WELLS)**

REPORT OF THE OFFICE

In response to industry requests, the West Virginia Department of Environmental Protection, Office of Oil and Gas has reviewed the proposed use of American Petroleum Institute (API) Class L cement to be used in place of API Class A cement for well construction.

FINDINGS OF FACT

1. On July 14, 2022, Northeast Natural Energy (NNE) submitted a variance request from Legislative Rule 35CSR8 Section 9.2.h.8., for the use of API Class L cement in place of API Class A cement, relating to the construction of horizontal wells.
2. Laboratory analysis submitted by NNE on July 14, 2022, indicates API Class L cement is comparable to API Class A cement and thereby satisfies the requirements of the West Virginia Code.
3. Contemporaneously, the Chief of the Office of Oil and Gas also chose to consider a variance to Legislative Rule 35CSR4 Section 11.5., for the use of API Class L cement in place of API Class A cement, relating to the construction of vertical wells.

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4. On August 18, 2022, the Office of Oil and Gas provided public notice of acceptance of public comments on the variance consideration. During the 20-day public comment period, no comments were received.

CONCLUSIONS OF LAW

Pursuant to Article 6 and Article 6A, Chapter 22 of the Code of West Virginia, the Office of Oil and Gas has jurisdiction over the subject matter, and the persons interested therein, and jurisdiction to promulgate the hereinafter prescribed Order.

Pursuant to Legislative Rule 35CSR4, Section 18 and Legislative Rule 35CSR8, Section 14, the Chief of the Office of Oil and Gas may grant a variance from any requirement of these rules.


ORDER

It is ordered that the Class L cement product approved and monogrammed by API is approved for use in place of API Class A cement for well construction subject to the provisions of Legislative Rule 35CSR4 and Legislative Rule 35CSR8.

Dated this, the 13th day of September, 2022.

IN THE NAME OF THE STATE OF WEST VIRGINIA

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



James Martin, Chief
Office of Oil and Gas

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

FLUIDS/ CUTTINGS DISPOSAL & RECLAMATION PLAN

Operator Name Northeast Natural Energy LLC OP Code 494498281

Watershed (HUC 10) Upper Monongahela Quadrangle _____ Grant Town _____

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 _____)

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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 31st day of October 2022

Kristen Brooks

Notary Public

My commission expires August 10, 2023



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

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Attachment A to WW-9

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

Proposed Revegetation Treatment: Acres Disturbed 28.65 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.

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Plan Approved by: Kenneth Greynolds

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Comments:

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WV Department of Environmental Protection

Title:

Date:

Field Reviewed? () Yes () No

4706101917

Sullivan 1H AREA OF REVIEW

API Number	Well Name	Well Number	Operator	Latitude (NAD 83)	Longitude (NAD 83)	TMP	TVD	Comments
061-00633	Clifford O. Yost	20	Pennzoil Company	39.614231	-80.229038	4-26-30	2234'	Plugged 8/3/88
061-00629	Bobby Joe Yost	19	Pennzoil Company	39.614701	-80.230331	4-26-30	2031'	Plugged 7/28/88
061-00463	John & Rose Fluharty	5	East Resources Inc.	39.616671	-80.22988	4-26-18	1926'	Plugged 6/16/11
061-01650	Kenneth Albert	NA	Eastern Associated / Peabody Coal Company	39.620416	-80.23411	4-26-12	NA	Plugged 12/5/12
061-01641	Kenneth Albert	4	Eastern Associated / Peabody Coal Company	39.621985	-80.234673	4-26-12	NA	Plugged 4/30/12
061-01639	Kenneth Albert	NA	Eastern Associated / Peabody Coal Company	39.622231	-80.23707	4-26-12	NA	Plugged 4/25/12
061-00470	Kenneth Albert	5	East Resources Inc.	39.622091	-80.237035	4-26-12	NA	Plugged 9/8/05
061-01640	Kenneth Albert	NA	Eastern Associated / Peabody Coal Company	39.62368	-80.236277	4-26-12	NA	Plugged 5/16/12
061-01630	Michael Latocha	4	Eastern Associated / Peabody Coal Company	39.625701	-80.236351	4-19-49	NA	Plugged 6/24/11
061-01629	Edith Darrah	7	Eastern Associated / Peabody Coal Company	39.626475	-80.238542	4-19-24	NA	Plugged 9/14/11
061-01628	Edith Darrah	8	Eastern Associated / Peabody Coal Company	39.628074	-80.238085	4-19-24	3523'	Plugged 12/28/11
061-01612	Edith Darrah	NA	Eastern Associated / Peabody Coal Company	39.629732	-80.240099	4-19-25	NA	NA
061-00560	J Eddy	8	Pennzoil Company	NA	NA	4-19-26	NA	NA
061-00105	Dolly Wilson	1	Eastern Associated / Peabody Coal Company	39.637574	-80.249421	4-19-7	3661'	Plugged 4/16/09
061-00062	Edith Darrah	NA	Eastern Associated / Peabody Coal Company	39.629732	-80.240099	4-19-1.1	NA	NA

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Sullivan Pad
Site Safety Plan

June 2022

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Kenneth L. Seybold
6-14-22

WELL NAME: SULLIVAN 1H
GRANT TOWN, WV

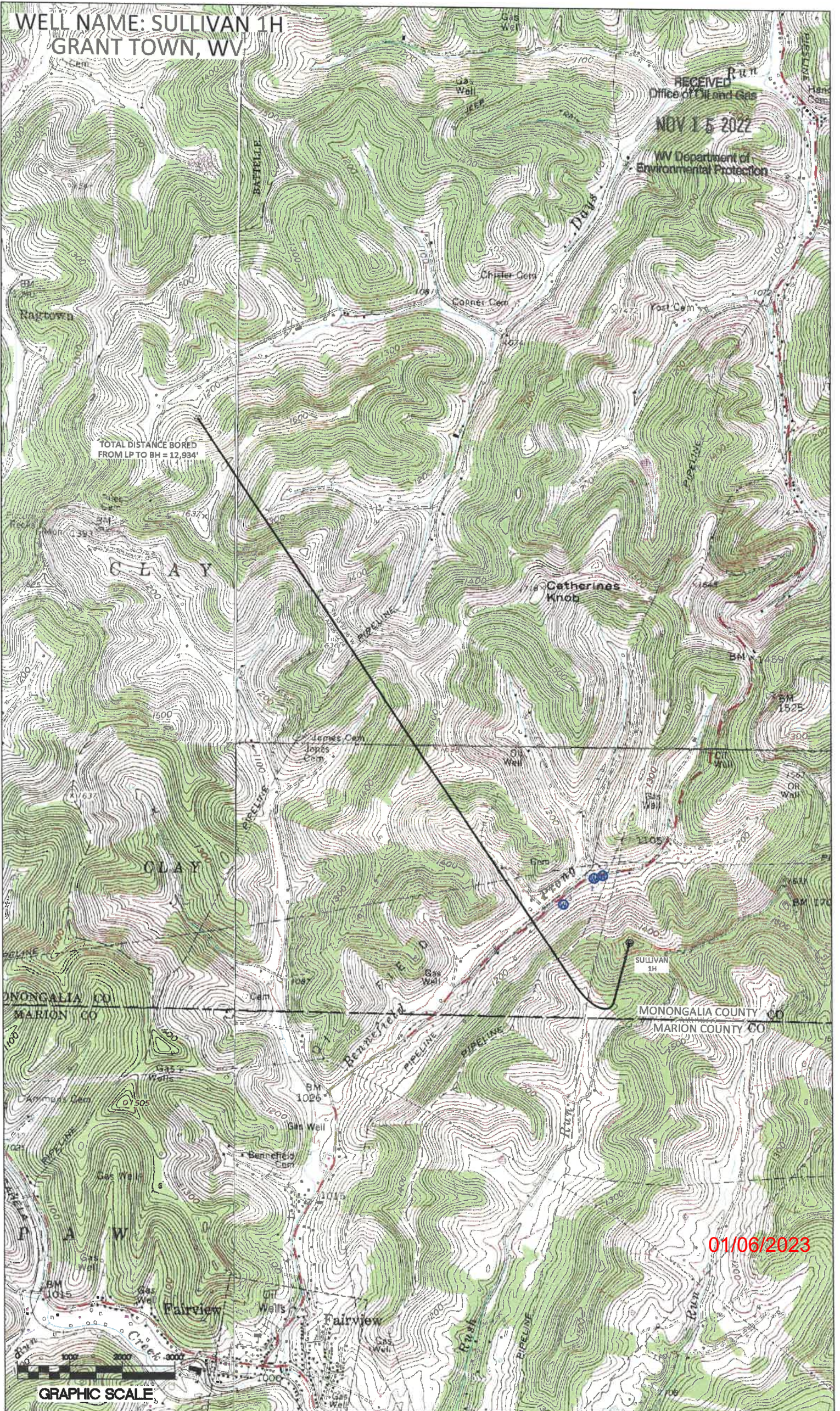
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WV Department of
Environmental Protection

TOTAL DISTANCE BORED
FROM LP TO BH = 12,934'

MONONGALIA COUNTY CO
MARION COUNTY CO

01/06/2023

GRAPHIC SCALE



**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
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See Attached

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**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
 By: Hollie Medley *Hollie Medley*
 Its: Regulatory Manager

WW-6A1 Form

Operators Well No. Sullivan 1H

Tract	Lease Number	Grantor, Lessor, etc.	Grantee, Lessee, etc.	Royalty	Book	Page
A	WV-061-000160-001-ACT	EQT Production Company	Northeast Natural Energy, LLC	12.5% Royalty or More	1775	44
B	WV-061-005448-002	Alan Sullivan	Northeast Natural Energy, LLC	12.5% Royalty or More	1772	466
C	WV-061-000160-001-ACT	EQT Production Company	Northeast Natural Energy, LLC	12.5% Royalty or More	1775	44
D	WV-061-000165-001 - LA	EQT Production Company	Northeast Natural Energy, LLC	12.5% Royalty or More	1786	405
E	WV-061-000160-001-ACT	EQT Production Company	Northeast Natural Energy, LLC	12.5% Royalty or More	1775	44
F	WV-061-005998-001	Ridgetop Appalachia, LLC	Northeast Natural Energy, LLC	12.5% Royalty or More	1785	204
G	WV-061-004797-039	Clarence Dean Sharp	Northeast Natural Energy, LLC	12.5% Royalty or More	1630	263
	WV-061-003976-021	Charlotte A. Britto	Northeast Natural Energy, LLC	12.5% Royalty or More	1638	508
	WV-061-005770-001	NNE (Equinor USA Onshore Properties, Inc. interest)	Northeast Natural Energy, LLC	12.5% Royalty or More	1738	798
	WV-061-004797-015	David Marshall Williams	Northeast Natural Energy, LLC	12.5% Royalty or More	1611	272
	WV-061-004797-037	Darrell Conaway a/k/a Henry D. Conaway	Northeast Natural Energy, LLC	12.5% Royalty or More	1619	832
	WV-061-004797-073	Christopher Louis Darnell	Northeast Natural Energy, LLC	12.5% Royalty or More	1653	146
	WV-061-004797-060	Charles Michael Morrison	Northeast Natural Energy, LLC	12.5% Royalty or More	1650	210
	WV-061-004797-059	Candace Ann Morrison Bunner	Northeast Natural Energy, LLC	12.5% Royalty or More	1650	208
	WV-061-004797-063	Charles Arthur Morrison	Northeast Natural Energy, LLC	12.5% Royalty or More	1650	216
	WV-061-004797-063	David Mitchell Morrison	Northeast Natural Energy, LLC	12.5% Royalty or More	1650	216
	WV-061-003976-010	Danny J. Yost	Northeast Natural Energy, LLC	12.5% Royalty or More	1557; 1728	476; 731
	WV-061-003976-008	Phillip D. Yost	Northeast Natural Energy, LLC	12.5% Royalty or More	1557; 1729	478; 784
	WV-061-003976-014	Randy D. Yost	Northeast Natural Energy, LLC	12.5% Royalty or More	1564; 1727	402; 556
	WV-061-003915-005	Gerald Wayne Stiles	Northeast Natural Energy, LLC	12.5% Royalty or More	1568; 1727	374; 272%
	WV-061-003976-007	David Yost	Northeast Natural Energy, LLC	12.5% Royalty or More	1576; 1727	849; 317
	WV-061-003976-018	Dennis L. Yost and Rhonda A. Yost	Northeast Natural Energy, LLC	12.5% Royalty or More	1577; 1727	24; 316
	WV-061-003976-009	Diana L. Fulps	Northeast Natural Energy, LLC	12.5% Royalty or More	1557; 1728	474; 730
	WV-061-003976-015	Melinda P. Heidekat	Northeast Natural Energy, LLC	12.5% Royalty or More	1568; 1727	323; 557
	WV-061-003976-006	Jill Tennant, f/k/a Jill Smith	Northeast Natural Energy, LLC	12.5% Royalty or More	1564; 1727	406; 555
	WV-061-003976-017	Nancy A. Maggard	Northeast Natural Energy, LLC	12.5% Royalty or More	1567; 1729	761; 440
	WV-067-003976-011	Jody Lynn Maley	Northeast Natural Energy, LLC	12.5% Royalty or More	1560; 1728	262; 732
	WV-061-003976-005	Michael G. Phillips	Northeast Natural Energy, LLC	12.5% Royalty or More	1567; 1727	810; 554
	WV-061-003976-004	LaNelle C. Stiles	Northeast Natural Energy, LLC	12.5% Royalty or More	1567; 1727	805; 568
	WV-061-003976-016	Barry D. Yost	Northeast Natural Energy, LLC	12.5% Royalty or More	1570; 1729	107; 439
	WV-061-003976-013	Connie S. (Yost) Copeland	Northeast Natural Energy, LLC	12.5% Royalty or More	1567	763
	WV-061-003976-012	Dale Lynn Moore	Northeast Natural Energy, LLC	12.5% Royalty or More	1560; 1728	260; 733
	WV-061-003976-012	Danny Keith Moore	Northeast Natural Energy, LLC	12.5% Royalty or More	1560; 1728	260; 733
	WV-061-003976-012	David Wayne Moore	Northeast Natural Energy, LLC	12.5% Royalty or More	1560; 1728	260; 733
	WV-061-003976-012	Diane Lynn Long	Northeast Natural Energy, LLC	12.5% Royalty or More	1560; 1728	260; 733
	WV-061-003976-012	Donny Lee Moore, a/k/a Donny Lee Moore	Northeast Natural Energy, LLC	12.5% Royalty or More	1560; 1728	260; 733
	WV-061-003976-002	Gary L. Moore	Northeast Natural Energy, LLC	12.5% Royalty or More	1567; 1727	71; 315
	WV-061-003976-002	Kenneth R. Moore	Northeast Natural Energy, LLC	12.5% Royalty or More	1567; 1727	71; 315
	WV-061-003976-002	Linda K. Statler	Northeast Natural Energy, LLC	12.5% Royalty or More	1567; 1727	71; 315
	WV-061-003976-002	Susan L. Heiskell	Northeast Natural Energy, LLC	12.5% Royalty or More	1567; 1727	71; 315
	WV-061-003976-019	Freddie D. Moore	Northeast Natural Energy, LLC	12.5% Royalty or More	1568; 1729	325; 785
H	WV-061-000160-001-ACT	EQT Production Company	Northeast Natural Energy, LLC	12.5% Royalty or More	1775	44
I	WV-061-003931-001	Margaret A. Berdine	Northeast Natural Energy, LLC	12.5% Royalty or More	1564	523
	WV-061-002923-001	Ryan C. Radtka	Northeast Natural Energy, LLC	12.5% Royalty or More	1402	615
	WV-061-003931-002	Gary L. Moore	Northeast Natural Energy, LLC	12.5% Royalty or More	1564	516
	WV-061-003931-002	Linda K. Statler	Northeast Natural Energy, LLC	12.5% Royalty or More	1564	516
	WV-061-003931-002	Kenneth R. Moore	Northeast Natural Energy, LLC	12.5% Royalty or More	1564	516
	WV-061-003931-002	Susan L. Heiskell	Northeast Natural Energy, LLC	12.5% Royalty or More	1564	516
	WV-061-003931-008	LaNelle C. Stiles	Northeast Natural Energy, LLC	12.5% Royalty or More	1564	531
	WV-061-003931-007	Jody Lynn Maley	Northeast Natural Energy, LLC	12.5% Royalty or More	1565	417
	WV-061-003931-014	Jill Renee Maley	Northeast Natural Energy, LLC	12.5% Royalty or More	1557	756
	WV-061-003931-019	Kelli D. Wilson	Northeast Natural Energy, LLC	12.5% Royalty or More	1564	526
	WV-061-003931-019	Lorri E. Kuhn	Northeast Natural Energy, LLC	12.5% Royalty or More	1564	526
	WV-061-003931-019	Gary D. Yost	Northeast Natural Energy, LLC	12.5% Royalty or More	1564	526
	WV-061-003931-016	Brett L. Yost	Northeast Natural Energy, LLC	12.5% Royalty or More	1564	521
	WV-061-003931-016	Cheral A. Skinner	Northeast Natural Energy, LLC	12.5% Royalty or More	1564	521

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Tract	Lease Number	Grantor, Lessor, etc.	Grantee, Lessee, etc.	Royalty	Book	Page
	WV-061-003931-016	Kami D. Elliott	Northeast Natural Energy, LLC	12.5% Royalty or More	1564	521
	WV-061-003931-005	Dennis L. Yost	Northeast Natural Energy, LLC	12.5% Royalty or More	1564	529
	WV-061-003931-003	David D. Yost	Northeast Natural Energy, LLC	12.5% Royalty or More	1568	112
	WV-061-003931-006	Michael G. Phillips	Northeast Natural Energy, LLC	12.5% Royalty or More	1568	283
	WV-061-003931-013	Melinda P. Heidekat	Northeast Natural Energy, LLC	12.5% Royalty or More	1557	754
	WV-061-003931-011	Connie Sharon Copeland	Northeast Natural Energy, LLC	12.5% Royalty or More	1562	416
	WV-061-003931-010	Randy D. Yost	Northeast Natural Energy, LLC	12.5% Royalty or More	1562	397
	WV-061-003931-018	Phillip D. Yost	Northeast Natural Energy, LLC	12.5% Royalty or More	1560	255
	WV-061-003931-020	Nancy A. Maggard	Northeast Natural Energy, LLC	12.5% Royalty or More	1567	820
	WV-061-003931-004	Gerald Wayne Stiles	Northeast Natural Energy, LLC	12.5% Royalty or More	1564	513
	WV-061-003931-015	Diana L. Fulps	Northeast Natural Energy, LLC	12.5% Royalty or More	1557	758
	WV-061-003931-012	Linda M. Sutphin	Northeast Natural Energy, LLC	12.5% Royalty or More	1560	264
	WV-061-003915-008	Judith J. Radcliff	Northeast Natural Energy, LLC	12.5% Royalty or More	1559	125
	WV-061-003915-005	James Swiger	Northeast Natural Energy, LLC	12.5% Royalty or More	1560	258
	WV-061-003933-001	Gary S. Williams	Northeast Natural Energy, LLC	12.5% Royalty or More	1567	818
J	WV-061-003931-011	Connie Sharon Copeland	Northeast Natural Energy, LLC	12.5% Royalty or More	1562	416
	WV-061-003931-009	Danny J. Yost	Northeast Natural Energy, LLC	12.5% Royalty or More	1567	425
	WV-061-003931-015	Diana L. Fulps	Northeast Natural Energy, LLC	12.5% Royalty or More	1557	758
	WV-061-003931-010	Randy D. Yost	Northeast Natural Energy, LLC	12.5% Royalty or More	1562	397
	WV-061-003931-020	Nancy A. Maggard	Northeast Natural Energy, LLC	12.5% Royalty or More	1567	820
	WV-061-003931-004	Gerald Wayne Stiles	Northeast Natural Energy, LLC	12.5% Royalty or More	1564	513
	WV-061-003931-008	LaNelle Stiles	Northeast Natural Energy, LLC	12.5% Royalty or More	1564	531
	WV-061-003931-007	Jody Lynn Maley	Northeast Natural Energy, LLC	12.5% Royalty or More	1565	417
	WV-061-003931-014	Jill Renee Maley	Northeast Natural Energy, LLC	12.5% Royalty or More	1557	756
	WV-061-003931-006	Michael G. Phillips	Northeast Natural Energy, LLC	12.5% Royalty or More	1568	283
	WV-061-003931-013	Melinda P. Heidekat	Northeast Natural Energy, LLC	12.5% Royalty or More	1557	754
	WV-061-003931-005	Dennis L. Yost	Northeast Natural Energy, LLC	12.5% Royalty or More	1564	529
	WV-061-003931-003	David D. Yost	Northeast Natural Energy, LLC	12.5% Royalty or More	1568	112
	WV-061-002923-001	Ryan C. Radtka	Northeast Natural Energy, LLC	12.5% Royalty or More	1402	615
K	WV-061-003931-002	Gary L. Moore	Northeast Natural Energy, LLC	12.5% Royalty or More	1564	516
	WV-061-003931-001	Margaret Ann Berdine	Northeast Natural Energy, LLC	12.5% Royalty or More	1564	523
	WV-061-003931-002	Linda K. Statler	Northeast Natural Energy, LLC	12.5% Royalty or More	1564	516
	WV-061-003931-002	Kenneth R. Moore	Northeast Natural Energy, LLC	12.5% Royalty or More	1564	516
	WV-061-003931-002	Susan L. Heiskell	Northeast Natural Energy, LLC	12.5% Royalty or More	1564	516
	WV-061-002923-001	Ryan C. Radtka	Northeast Natural Energy, LLC	12.5% Royalty or More	1402	615
L	WV-061-000160-001-ACT	EQT Production Company	Northeast Natural Energy, LLC	12.5% Royalty or More	1775	44
M	WV-061-003931-011	Connie Sharon Copeland	Northeast Natural Energy, LLC	12.5% Royalty or More	1562	416
	WV-061-002923-001	Ryan C. Radtka	Northeast Natural Energy, LLC	12.5% Royalty or More	1402	615
N	WV-061-000160-001-ACT	EQT Production Company	Northeast Natural Energy, LLC	12.5% Royalty or More	1775	44
O	WV-061-004792-004	Gary L. Moore	Northeast Natural Energy, LLC	12.5% Royalty or More	1614	621
	WV-061-004792-004	Donna G. Moore	Northeast Natural Energy, LLC	12.5% Royalty or More	1614	621
	WV-061-004792-004	William Bruce Moore	Northeast Natural Energy, LLC	12.5% Royalty or More	1614	621
	WV-061-004792-004	Samuel Moore	Northeast Natural Energy, LLC	12.5% Royalty or More	1614	621
	WV-061-004792-004	Jason Moore	Northeast Natural Energy, LLC	12.5% Royalty or More	1614	621
	WV-061-004792-027	Derrick Wayne Tennant	Northeast Natural Energy, LLC	12.5% Royalty or More	1666	121
	WV-061-004792-027	Eric Blaine Tennant	Northeast Natural Energy, LLC	12.5% Royalty or More	1666	121
	WV-061-004792-027	Darrian Marie Tennant	Northeast Natural Energy, LLC	12.5% Royalty or More	1666	121
	WV-061-004792-026	Albert George Tennant	Northeast Natural Energy, LLC	12.5% Royalty or More	1657	335
	WV-061-005258-001	David S. Beal	Northeast Natural Energy, LLC	12.5% Royalty or More	1628	631
	WV-061-005258-002	Donald G. Beal	Northeast Natural Energy, LLC	12.5% Royalty or More	1628	633
	WV-061-004792-025	Clifford Eugene Bidwell	Northeast Natural Energy, LLC	12.5% Royalty or More	1657	333
	WV-061-004792-029	James Daniel Krotzer	Northeast Natural Energy, LLC	12.5% Royalty or More	1666	125
	WV-061-005175-004	Karl Von Krotzer	Northeast Natural Energy, LLC	12.5% Royalty or More	1653	154
	WV-061-004792-028	Yolanda Krotzer	Northeast Natural Energy, LLC	12.5% Royalty or More	1666	123
	WV-061-005175-002	Linda Kay Sipe	Northeast Natural Energy, LLC	12.5% Royalty or More	1645	250
	WV-061-005501-001	Rachel Haught (Rachel Haught, Trustee of the Stephen Ray Haught Revocable Trust dated December 30, 2014 Interest)	Northeast Natural Energy, LLC	12.5% Royalty or More	1650	393
	WV-061-005175-003	Carol Tidwell	Northeast Natural Energy, LLC	12.5% Royalty or More	1645	252
	WV-061-005175-005	Lauren Lynn Luckert	Northeast Natural Energy, LLC	12.5% Royalty or More	1653	156

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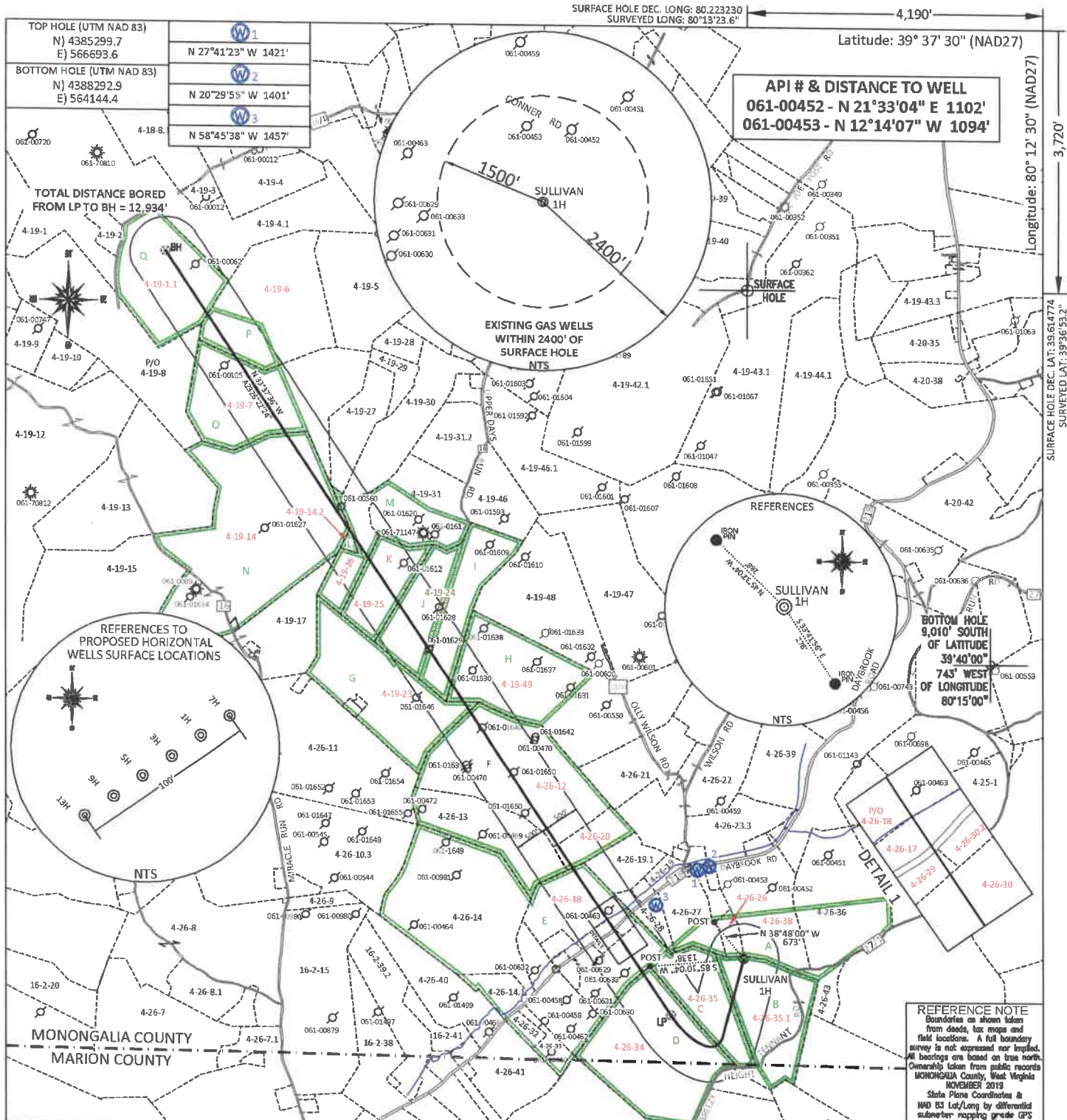
WV Department of
Environmental Protection

Tract	Lease Number	Grantor, Lessor, etc.	Grantee, Lessee, etc.	Royalty	Book	Page
	WV-061-005788-001	Sandy L. Moore	Northeast Natural Energy, LLC	12.5% Royalty or More	1748	762
	WV-061-001843-009	LeeAnn Shumiloff	Northeast Natural Energy, LLC	12.5% Royalty or More	1688	553
	WV-061-001843-009	Christopher B. Wilson	Northeast Natural Energy, LLC	12.5% Royalty or More	1688	553
	WV-061-001843-009	Susan Brinegar	Northeast Natural Energy, LLC	12.5% Royalty or More	1688	553
	WV-061-001843-009	Justin Wilson	Northeast Natural Energy, LLC	12.5% Royalty or More	1688	553
	WV-061-001843-009	Deken Wilson	Northeast Natural Energy, LLC	12.5% Royalty or More	1688	553
	WV-061-004792-010	John C. Jones	Northeast Natural Energy, LLC	12.5% Royalty or More	1626	90
	WV-061-004792-008	Janet D. Crabtree	Northeast Natural Energy, LLC	12.5% Royalty or More	1626	86
	WV-061-004792-012	Loruma B. Brokaw	Northeast Natural Energy, LLC	12.5% Royalty or More	1628	287
	WV-061-004792-009	Thomas D. Jones	Northeast Natural Energy, LLC	12.5% Royalty or More	1626	88
	WV-061-004792-001	Marsha Catherine Wilson and Gary L. Wilson, as joint tenants with the right of survivorship	Northeast Natural Energy, LLC	12.5% Royalty or More	1513	312
	WV-061-005137-001	Nancy A. Kallas	Northeast Natural Energy, LLC	12.5% Royalty or More	1618	765
	WV-061-005122-001	Pamela Lane Tennant	Northeast Natural Energy, LLC	12.5% Royalty or More	1618	785
	WV-061-005122-003	Patricia Jane Tennant	Northeast Natural Energy, LLC	12.5% Royalty or More	1618	753
	WV-061-005122-002	Kimberly Dawn Huggins Coker	Northeast Natural Energy, LLC	12.5% Royalty or More	1618	787
	WV-061-005122-004	James David Tennant	Northeast Natural Energy, LLC	12.5% Royalty or More	1618	755
	WV-061-004792-019	Tonya Smerdell	Northeast Natural Energy, LLC	12.5% Royalty or More	1647	466
	WV-061-004792-017	Terry Shriver	Northeast Natural Energy, LLC	12.5% Royalty or More	1647	462
	WV-061-004792-018	Tina Bragg	Northeast Natural Energy, LLC	12.5% Royalty or More	1647	464
	WV-061-005122-007	Marcy Annette Taylor	Northeast Natural Energy, LLC	12.5% Royalty or More	1637	744
	WV-061-005122-006	Anthony Scott Taylor	Northeast Natural Energy, LLC	12.5% Royalty or More	1636	257
	WV-061-005277-001	Beth A. Perchuck	Northeast Natural Energy, LLC	12.5% Royalty or More	1637	602
	WV-061-004792-011	Reginald K. Tennant	Northeast Natural Energy, LLC	12.5% Royalty or More	1628	285
	WV-061-005188-001	Robert K. Tennant	Northeast Natural Energy, LLC	12.5% Royalty or More	1621	770
	WV-061-004792-002	Susan L. Stuzen	Northeast Natural Energy, LLC	12.5% Royalty or More	1611	37
	WV-061-005175-001	Jeffrey Dewayne Williams	Northeast Natural Energy, LLC	12.5% Royalty or More	1621	756
	WV-061-004792-005	Kenneth D. Williams	Northeast Natural Energy, LLC	12.5% Royalty or More	1615	585
	WV-061-005170-001	Alan K. Tennant	Northeast Natural Energy, LLC	12.5% Royalty or More	1621	647
	WV-061-005170-001	Douglas D. Tennant	Northeast Natural Energy, LLC	12.5% Royalty or More	1621	647
	WV-061-005170-001	Stephen T. Tennant	Northeast Natural Energy, LLC	12.5% Royalty or More	1621	647
	WV-061-005170-001	Eric G. Tennant	Northeast Natural Energy, LLC	12.5% Royalty or More	1621	647
	WV-061-004792-020	Roxana Cahill	Northeast Natural Energy, LLC	12.5% Royalty or More	1653	181
	WV-061-004792-016	Jimmy Randall Tennant	Northeast Natural Energy, LLC	12.5% Royalty or More	1638	534
	WV-061-004792-015	Pamela Kay Tennant	Northeast Natural Energy, LLC	12.5% Royalty or More	1637	720
	WV-061-004792-014	Billy Ray Tennant	Northeast Natural Energy, LLC	12.5% Royalty or More	1637	718
P	WV-061-005788-001	Sandy L. Moore	Northeast Natural Energy, LLC	12.5% Royalty or More	1748	762
	WV-061-001843-009	LeeAnn Shumiloff	Northeast Natural Energy, LLC	12.5% Royalty or More	1688	553
	WV-061-001843-009	Christopher B. Wilson	Northeast Natural Energy, LLC	12.5% Royalty or More	1688	553
	WV-061-001843-009	Susan Brinegar	Northeast Natural Energy, LLC	12.5% Royalty or More	1688	553
	WV-061-001843-009	Justin Wilson	Northeast Natural Energy, LLC	12.5% Royalty or More	1688	553
	WV-061-001843-009	Deken Wilson	Northeast Natural Energy, LLC	12.5% Royalty or More	1688	553
Q	WV-061-005876-002	Kemble D. Tate	Northeast Natural Energy, LLC	12.5% Royalty or More	1782	291

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WV Department of
Environmental Protection



FILE #: NNE20
 DRAWING #: 3047
 SCALE: PLAT: 1" = 2000'
TICK: 1" = 2000'
 MINIMUM DEGREE OF ACCURACY: 1/200
 PROVEN SOURCE OF ELEVATION: SUBMETER MAPPING GRADE GPS

I, THE UNDERSIGNED, HEREBY CERTIFY THAT THIS PLAT IS CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF AND SHOWS ALL THE INFORMATION REQUIRED BY LAW AND THE REGULATIONS ISSUED AND PRESCRIBED BY THE DEPARTMENT OF ENVIRONMENTAL PROTECTION.
 Signed: [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: ALAN SULLIVAN
 OIL & GAS ROYALTY OWNER: ALAN SULLIVAN
 LEASE NUMBERS: _____

DATE: OCTOBER 18, 2022
 OPERATOR'S WELL #: SULLIVAN 1H
 API WELL #: 47 61 01917
 STATE COUNTY PERMIT
 CURRENT ELEVATION: 1,520'
 PROPOSED ELEVATION: 1,476.4'
 QUADRANGLE: GRANT TOWN
 ACREAGE: 870.94 +/-
 ACREAGE: 25.870 +/-

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

TARGET FORMATION: MARCELLUS
 ESTIMATED DEPTH: TVD: 8,247' TMD: 22,000'
 WELL OPERATOR: NORTHEAST NATURAL ENERGY LLC
 DESIGNATED AGENT: JOHN ADAMS
 ADDRESS: 707 VIRGINIA STREET EAST, SUITE 1200
 ADDRESS: 707 VIRGINIA STREET EAST, SUITE 1200
 CITY: CHARLESTON STATE: WV ZIP CODE: 25301
 CITY: CHARLESTON STATE: WV ZIP CODE: 25301

01/06/2023

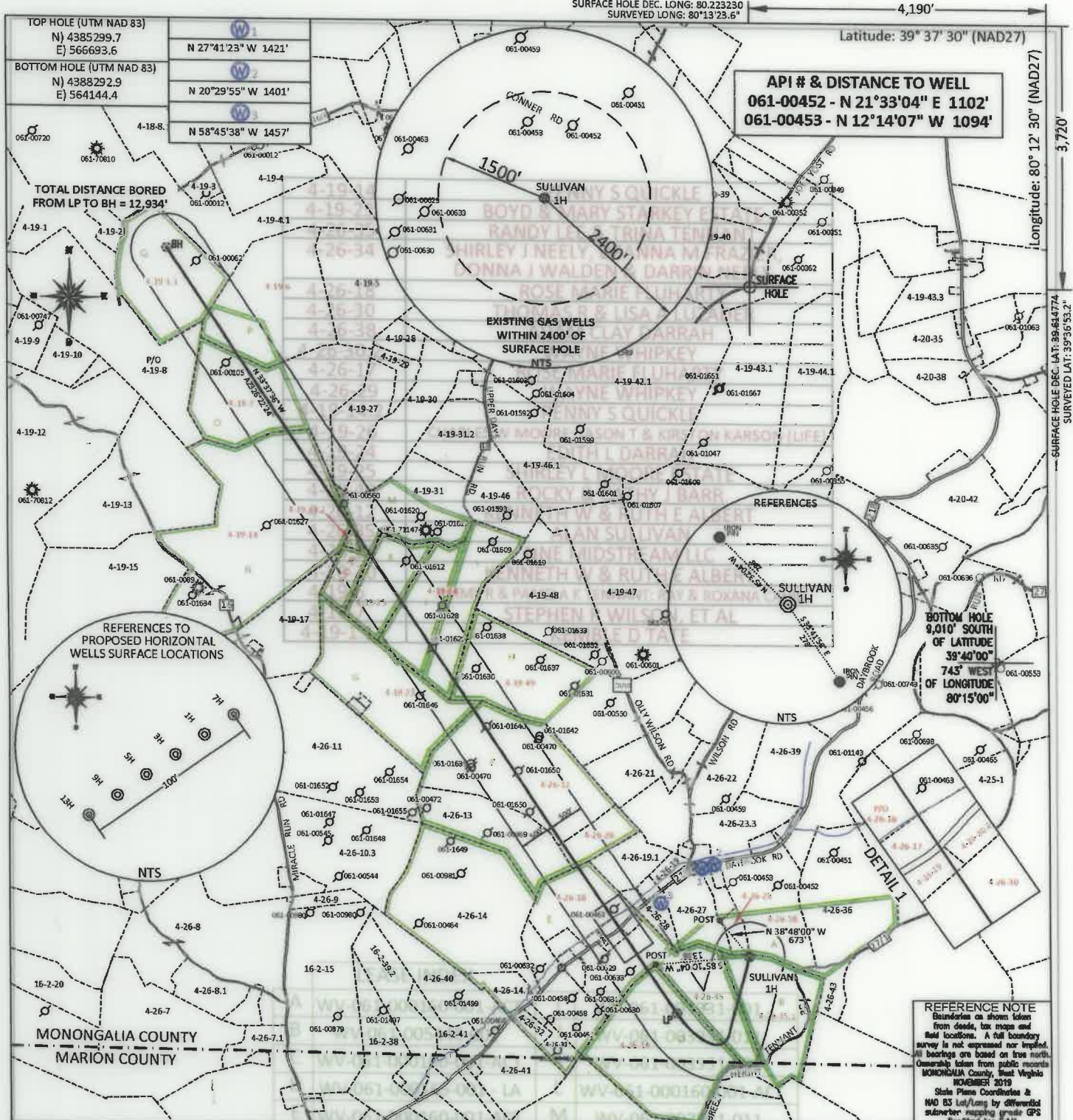
4-19-14	PENNY S QUICKLE
4-19-23	BOYD & MARY STARKEY ESTATE
4-26-35	RANDY LEE & TRINA TENNANT
4-26-34	SHIRLEY J NEELY, DEANNA M FRAZIER, DONNA J WALDEN & DARRIN NEELY
4-26-18	ROSE MARIE FLUHARTY
4-26-30	THOMAS R & LISA A LUZADER
4-26-38	ADAM CLAY DARRAH
4-26-30.2	WAYNE WHIPKEY
4-26-17	ROSE MARIE FLUHARTY
4-26-29	WAYNE WHIPKEY
4-19-14.2	PENNY S QUICKLE
4-19-26	CHARLES W MOORE; JASON T & KIRSTON KARSON (LIFE)
4-19-24	EDITH L DARRAH
4-19-25	SHIRLEY L MOORE ESTATE
4-19-49	ROCKY & CATHY J BARR
4-26-12	KENNETH W & RUTH E ALBERT
4-26-35.1	ALAN SULLIVAN
4-26-26	NNE MIDSTREAM LLC
4-26-20	KENNETH W & RUTH E ALBERT
4-19-6	JIMMY R & PAMELA K TENNANT; RAY & ROXANA CAHILL
4-19-7	STEPHEN R WILSON, ET AL
4-19-1.1	KEMBLE D TATE

LEASE INDEX			
A	WV-061-000160-001-ACT	I	WV-061-003931-001
B	WV-061-005448-002	J	WV-061-003931-011
C	WV-061-000160-001-ACT	K	WV-061-003931-002
D	WV-061-000165-001 - LA	L	WV-061-000160-001-ACT
E	WV-061-000160-001-ACT	M	WV-061-003931-011
F	WV-061-005998-001	N	WV-061-000160-001-ACT
G	WV-061-004797-039	O	WV-061-004792-004
H	WV-061-000160-001-ACT	P	WV-061-005788-001
		Q	WV-061-005876-002

01/06/2023

FILE #: NEE20
DRAWING #: 3047
SCALE: N/A

DATE: OCTOBER 18, 2022
OPERATOR'S WELL #: SULLIVAN 1H
API WELL #: 47 61 01917
STATE COUNTY PERMIT



FILE #: NNE20
 DRAWING #: 3047
 SCALE: PLAT: 1" = 2000'
 TICK: 1" = 2000'
 MINIMUM DEGREE OF ACCURACY: 1/200
 PROVEN SOURCE OF ELEVATION: SUBMETER MAPPING GRADE GPS

I, THE UNDERSIGNED, HEREBY CERTIFY THAT THIS PLAT IS CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF AND SHOWS ALL THE INFORMATION REQUIRED BY LAW AND THE REGULATIONS ISSUED AND PRESCRIBED BY THE DEPARTMENT OF ENVIRONMENTAL PROTECTION.
 Signed: [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 Diposal Production Deep
 Gas Liquid Injection Storage Shallow

WATERSHED: UPPER MONONGAHELA RIVER

COUNTY/DISTRICT: MONONGALIA / CLAY

SURFACE OWNER: ALAN SULLIVAN

OIL & GAS ROYALTY OWNER: ALAN SULLIVAN

LEASE NUMBERS: _____

DATE: OCTOBER 18, 2022

OPERATOR'S WELL #: SULLIVAN 1H

API WELL #: 47 61 01917

STATE COUNTY PERMIT
 CURRENT ELEVATION: 1,520'
 PROPOSED ELEVATION: 1,476.4'

QUADRANGLE: GRANT TOWN

ACREAGE: 870.94 +/-

ACREAGE: 25.870 +/-

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

FILE #: NEE20

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: 8,247' TMD: 22,000'

DESIGNATED AGENT: JOHN ADAMS

ADDRESS: 707 VIRGINIA STREET EAST, SUITE 1200

CITY: CHARLESTON STATE: WV ZIP CODE: 25301

01/06/2023

4706101917



November 2, 2022

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

RE: Sullivan North

Dear Permit Reviewer:

Please be advised that Northeast Natural Energy LLC has the right to drill, extract and produce the minerals beneath Upper Day Run Road, Clint Moore Road, Connor School Road, Wilson Road, Daybrook Road, Wyers Run Road, Ollie Wilson Road as identified on the included plat.

Sincerely,

A handwritten signature in blue ink, appearing to read 'C. Dometto', with a long horizontal flourish extending to the right.

Charles Dometto
Manager Land Acquisitions

Northeast Natural Energy LLC · 707 Virginia Street East, Suite
1200 · Charleston, WV 25301

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Office of Oil and Gas

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WV Department of
Environmental Protection

01/06/2023

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

Date of Notice Certification: 10/27/2022

API No. 47- _____ - _____
Operator's Well No. 1H
Well Pad Name: Sullivan

Notice has been given:

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

State: West Virginia
County: Monongalia
District: Clay
Quadrangle: Grant Town
Watershed: Upper Monongahela

UTM NAD 83 Easting: 566693.6
Northing: 4385299.7
Public Road Access: Route 27/1
Generally used farm name: Sullivan

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

<p>Pursuant to West Virginia Code § 22-6A, the Operator has attached proof to this Notice Certification that the Operator has properly served the required parties with the following:</p> <p>*PLEASE CHECK ALL THAT APPLY</p> <p><input type="checkbox"/> 1. NOTICE OF SEISMIC ACTIVITY or <input checked="" type="checkbox"/> NOTICE NOT REQUIRED BECAUSE NO SEISMIC ACTIVITY WAS CONDUCTED</p> <p><input checked="" type="checkbox"/> 2. NOTICE OF ENTRY FOR PLAT SURVEY or <input type="checkbox"/> NO PLAT SURVEY WAS CONDUCTED</p> <p><input checked="" type="checkbox"/> 3. NOTICE OF INTENT TO DRILL or <input type="checkbox"/> NOTICE NOT REQUIRED BECAUSE NOTICE OF ENTRY FOR PLAT SURVEY WAS CONDUCTED or</p> <p><input type="checkbox"/> WRITTEN WAIVER BY SURFACE OWNER (PLEASE ATTACH)</p> <p><input checked="" type="checkbox"/> 4. NOTICE OF PLANNED OPERATION</p> <p><input checked="" type="checkbox"/> 5. PUBLIC NOTICE</p> <p><input checked="" type="checkbox"/> 6. NOTICE OF APPLICATION</p>	<p align="center">OOG OFFICE USE ONLY</p> <p><input type="checkbox"/> RECEIVED/ NOT REQUIRED</p> <p><input type="checkbox"/> RECEIVED</p> <p><input type="checkbox"/> RECEIVED/ NOT REQUIRED</p> <p><input type="checkbox"/> RECEIVED</p> <p><input type="checkbox"/> RECEIVED</p> <p><input type="checkbox"/> RECEIVED</p>
---	--

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.

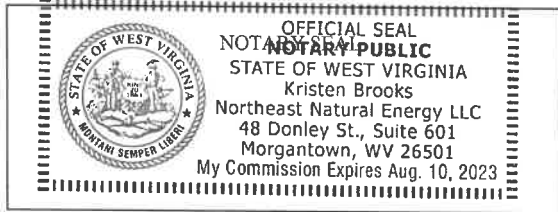
01/06/2023

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.

Hollie Medley

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>



Subscribed and sworn before me this 27th day of October, 2022

Kristen Brooks

Notary Public

My Commission Expires Aug. 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

01/06/2023

Sullivan 1H
WW-6A Attachment

Surface Owners

Alan Sullivan
4676 32nd Court East
Bradenton, FL 34203

Surface Owner (Road and/or Other
Disturbance)

Adam Clay Darrah
51 Alderman Road
Morgantown, WV 26508

James Louis Doukas
10909 SE 169th Lane
Summerfield, FL 34491

NNE Midstream, LLC
707 Virginia Street East
Charleston, WV 25301

Yost & Yost Pipe Co
2572 Daybrook Road
Fairview, WV 26570

Clifton E. Tennant Jr
50 Eagle Drive
Fairview, WV 26570

David M Lindner & Dawn M Lindner
31 Lindner Lane
Smithton, PA 15479

Larry F. & Brenda Kay Kuhn
3693 Daybrook Road
Fairview, WV 26570

John Conaway and Patricia Conaway
1811 Pleasant Valley Road
Fairmont, WV 26554

Connie Hamilton
4376 Crossroads Road
Fairview, WV 26570

Orville W. Bell and Josephine F. Bell
73 Wyers Run Road
Fairview, WV 26570

Coal Owner or Lessee

CONSOL Mining Company LLC
1000 Consol Energy Drive
Canonsburg, PA 15317

Surface Owner of Water Well

Delbert Bailey
3829 Daybrook Rd
Fairview, WV 26570

Robert Dale & Pamela Carter
3891 Daybrook Rd
Fairview, WV 26570

Jesse Ross & Kimberly Anne Sine
3813 Daybrook Rd
Fairview, WV 26570

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Office of Oil and Gas

NOV 15 2022

WV Department of
Environmental Protection

01/06/2023

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Office of Oil and Gas
for a permit for
NOV 15 2022**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 sedimentation control plan required by section seven of this article; and (3) the well plat.

WV Department of
Environmental Protection

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

01/06/2023

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.**

01/06/2023

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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Office of Oil and Gas

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WV Department of
Environmental Protection

01/06/2023

Notice is hereby given by:

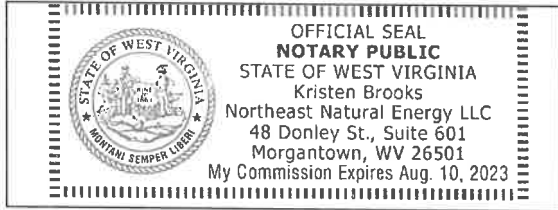
Well Operator: Northeast Natural Energy, LLC
Telephone: 304-414-7060
Email: _____

Address: 707 Virginia St. E., Suite 1200
Charleston, WV 25301
Facsimile: 304-414-7061

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.

Holl Mealy



Subscribed and sworn before me this 26th day of October, 2022

Kristen Brooks Notary Public

My Commission Expires Aug. 10, 2023

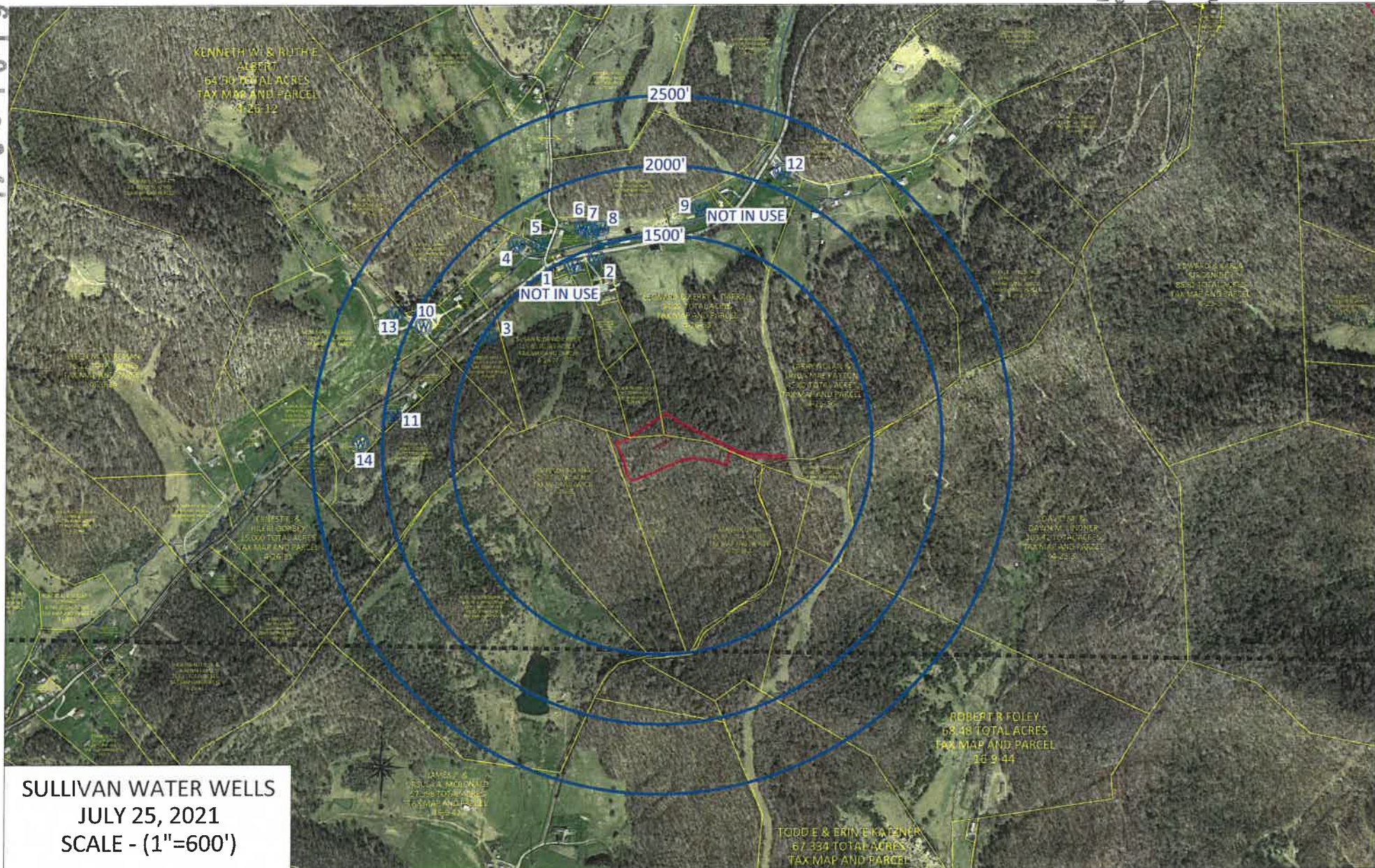
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01/06/2023

4706101917



SULLIVAN WATER WELLS
 JULY 25, 2021
 SCALE - (1"=600')

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 Department of Oil and Gas
 NOV 15 2022
 Department of Environmental Protection

Affidavit of Personal Service

State Of West Virginia

County Of Monongalia

The undersigned, being first duly sworn, says that the undersigned served a true and complete copy of all sides of--

- (1) Notice on Form WW-2(A) ___/ WW-3(A) ___/ WW-4(A) ___/ WW-5(A) ___/ WW-6(A) X
- (2) Application on Form WW-2(B) ___/ WW-3(B) ___/ WW-4(B) ___/ WW-5(B) ___/ WW-6(B) X
- (3) Plat showing the well location on Form WW-6, and
- (4) Construction and Reclamation Plan on Form WW-9

--all with respect to operator's Well No. Sullivan 1H, 5H, 7H, 9H, 13H located in Clay District District, Monongalia County County, West Virginia, upon the person or organization named--

NNE Midstream, LLC

--by delivering the same in Monongalia County, State of West Virginia on the 26th day of October, 2022 in the manner specified below.

[COMPLETE THE APPROPRIATE SECTION]

For an individual:

[] Handing it to him ___/ her ___/ or, because he ___/ she ___/ refused to take it when offered it, by leaving it in his ___/ her ___/ presence.

[] Handing it to a member of his or her family above the age of 16 years named _____ who resides at the usual place of abode of the person to be served, and asking the family member to give it to the person to be served as soon as possible.

For a partnership:

[] Handing it to _____, a partner of the partnership or, because the partner refused to take it when I handed it over, by leaving it in the presence of the partner.

For a limited partnership:

[] Handing it to the general partner, named _____, or, because the general partner refused to take it when I tried to hand it over, by leaving it in the presence of the general partner.

For a corporation:

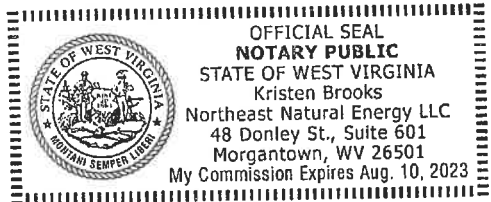
[X] Handing it to the corporation's employee X/ officer ___/ director ___/ attorney in fact ___/ named John Landis.

Hollenmeyer
(Signature of person executing service)

Taken, subscribed and sworn before me this 27th day of October 2022
My commission expires August 10, 2023

Kristen Brooks
Notary Public

(AFFIX SEAL IF NOTARIZED OUTSIDE THE STATE)



RECEIVED
Office of Oil and Gas
NOV 15 2022
WV Department of
Environmental Protection

01/06/2023

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: 4/30/2021 **Date of Planned Entry:** 5/10/2021

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: Edward & Karla Strosnider
Address: 630 Broadway Ave
Star City, WV 26505

Name: _____
Address: _____

Name: _____
Address: _____

COAL OWNER OR LESSEE

Name: _____
Address: _____

MINERAL OWNER(s)

Name: _____
Address: _____

*please attach additional forms if necessary

Notice is hereby given:

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

State: West Virginia
County: Monongalia
District: Clay
Quadrangle: Grant Town

Approx. Latitude & Longitude: LAT: 39° 36'53.15", LON: -80° 13'22.77"
Public Road Access: Breezy Height-Tennant Rd (27/1)
Watershed: Upper Monongahela River
Generally used farm name: Sullivan

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

Notice is hereby given by:

Well Operator: Northeast Natural Energy, LLC
Telephone: 304-414-7060
Email: _____

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

RECEIVED
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NOV 15 2022

WV Department of
Environmental Protection

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Notice is hereby provided to:

SURFACE OWNER(s)

Name: Allen Sullivan
 Address: 106 Hickory Ct
 Daniels, WV 25832

Name: _____
 Address: _____

Name: _____
 Address: _____

COAL OWNER OR LESSEE

Name: _____
 Address: _____

MINERAL OWNER(s)

Name: _____
 Address: _____

*please attach additional forms if necessary

Notice is hereby given:

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State:	West Virginia	Approx. Latitude & Longitude:	LAT: 39° 36'53.15", LON: -80° 13'22.77"
County:	Monongalia	Public Road Access:	Breezy Height-Tennant Rd (27/1)
District:	Clay	Watershed:	Upper Monongahela River
Quadrangle:	Grant Town	Generally used farm name:	Sullivan

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 Telephone: 304-414-7060
 Email: _____

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 Facsimile: 304-241-5972

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Notice is hereby provided to:

SURFACE OWNER(s)

Name: David M & Dawn M Lindner
Address: 31 Lindner Ln
Smithton, PA 15479

Name: _____
Address: _____

Name: _____
Address: _____

COAL OWNER OR LESSEE

Name: _____
Address: _____

MINERAL OWNER(s)

Name: _____
Address: _____

*please attach additional forms if necessary

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Email: _____

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Facsimile: 304-241-5972

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WV Department of
Environmental Protection

01/06/2023

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Notice is hereby provided to:

SURFACE OWNER(s)

Name: James Louis Doukas
 Address: 13491 Olde Oak Dr
 Charlotte Hall, MD 20622

Name: _____
 Address: _____

Name: _____
 Address: _____

COAL OWNER OR LESSEE

Name: _____
Address: _____

MINERAL OWNER(s)

Name: _____
Address: _____

*please attach additional forms if necessary

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Notice is hereby provided to:

SURFACE OWNER(s)

Name: Clifton E Tennant Jr.
Address: 50 Eagle Dr
Fairview, WV 26570

Name: _____
Address: _____

Name: _____
Address: _____

COAL OWNER OR LESSEE

Name: _____
Address: _____

MINERAL OWNER(s)

Name: _____
Address: _____

*please attach additional forms if necessary

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Notice is hereby provided to:

SURFACE OWNER(s)

Name: Kerry L Darrah
 Address: 802 Country Club Rd
 Fairmont, WV 26554

 Name: _____
 Address: _____

 Name: _____
 Address: _____

COAL OWNER OR LESSEE

Name: _____
 Address: _____

MINERAL OWNER(s)

Name: _____
 Address: _____

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Notice is hereby provided to:

SURFACE OWNER(s)
Name: Larry Nolan & Linda Mae Payton
Address: 30 Wyers Run Rd
 Fairview, WV 26570

Name: _____
Address: _____

Name: _____
Address: _____

COAL OWNER OR LESSEE
Name: _____
Address: _____

 MINERAL OWNER(s)
Name: _____
Address: _____

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Well Operator:	Northeast Natural Energy, LLC	Address:	707 Virginia St. E, Suite 1200 Charleston, WV 25301
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Email:	_____		

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Notice is hereby provided to:

SURFACE OWNER(s)

Name: John G & Patricia Conaway
Address: 1811 Pleasant Valley Rd
Fairmont, WV 26554

Name: _____
Address: _____

Name: _____
Address: _____

COAL OWNER OR LESSEE

Name: _____
Address: _____

MINERAL OWNER(s)

Name: _____
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Watershed: Upper Monongahela River
Generally used farm name: Sullivan

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

Notice is hereby given by:

Well Operator: Northeast Natural Energy, LLC
Telephone: 304-414-7080
Email: _____

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

RECEIVED
Office of Oil and Gas
NOV 15 2022
WV Department of
Environmental Protection

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.

01/06/2023

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: 4/30/2021 **Date of Planned Entry:** 5/10/2021

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: Connie Hamilton
 Address: 4376 Crossroads Rd
Fairview, WV 26570
 Name: _____
 Address: _____
 Name: _____
 Address: _____

COAL OWNER OR LESSEE

Name: _____
 Address: _____

MINERAL OWNER(s)

Name: _____
 Address: _____

*please attach additional forms if necessary

Notice is hereby given:

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

State: <u>West Virginia</u>	Approx. Latitude & Longitude: <u>LAT: 39° 36'53.15", LON: -80° 13'22.77"</u>
County: <u>Monongalia</u>	Public Road Access: <u>Breezy Height-Tennant Rd (27/1)</u>
District: <u>Clay</u>	Watershed: <u>Upper Monongahela River</u>
Quadrangle: <u>Grant Town</u>	Generally used farm name: <u>Sullivan</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: Northeast Natural Energy, LLC
 Telephone: 304-414-7060
 Email: _____

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

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 Environmental Protection

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.

01/06/2023

4706101917

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

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

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

Date of Notice: 10/27/2022 **Date Permit Application Filed:** 11/07/2022

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

HAND DELIVERY CERTIFIED MAIL RETURN RECEIPT REQUESTED

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

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

Name: Alan Sullivan
Address: 4676 32nd Court East
Bradenton, FL 34203

Name: _____
Address: _____

Notice is hereby given:

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

State: West Virginia UTM NAD 83 Easting: 566693.6
County: Monongalia Northing: 4385299.7
District: Clay Public Road Access: Route 27/1
Quadrangle: Grant Town Generally used farm name: Sullivan
Watershed: Upper Monongahela

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: hmedley@nne-llc.com
Facsimile: 304-414-7061

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 its 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.

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01/06/2023

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: 10/27/2022 **Date Permit Application Filed:** 11/07/2022

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: Alan Sullivan	Name: _____
Address: 4676 32nd Court East	Address: _____
Bradenton, FL 34203	

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: 566693.6
County: Monongalia	UTM NAD 83 Northing: 4385299.7
District: Clay	Public Road Access: Route 27/1
Quadrangle: Grant Town	Generally used farm name: Sullivan
Watershed: Upper Monongahela	

This Notice Shall Include:

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

Well Operator: Northeast Natural Energy, LLC	Address: 707 Virginia St. E., Suite 1200
Telephone: 304-414-7060	Charleston, WV 25301
Email: _____	Facsimile: 304-414-7061

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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NOV 15 2022
WV Department of
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01/06/2023



WEST VIRGINIA DEPARTMENT OF TRANSPORTATION

Division of Highways

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

D. Alan Reed, P.E.
 State Highway Engineer

Jimmy Wriston, P. E.
 Secretary of Transportation
 Commissioner of Highways

June 28, 2022

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

Subject: DOH Permit for the Sullivan Pad, Monongalia County
 Sullivan 1H Well Site

Dear Mr. Martin,

This well site will be accessed from a DOH permit #04-2022-0423 which has been issued to Northeast Natural Energy for access to the State Road for a well site located off Monongalia County Route 27/1 SLS MP 0.42.

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. This letter is valid for permitting purposes for one year from the date of this letter.

Very Truly Yours,

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

Cc: Kristen Brooks
 Northeast Natural Energy
 CH, OM, D-4
 File

E.E.O./AFFIRMATIVE ACTION EMPLOYER

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 WV Department of
 Environmental Protection

01/06/2023

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 Polyozyalkylenes 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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NOV 15 2022
 WV Department of
 Environmental Protection

4706101917



TWO WORKING DAYS PRIOR TO EXCAVATION, THE CONTRACTOR MUST CONTACT THE WV ONE CALL SYSTEM, INC., 1-800-245-4848 (WV ONE CALL TICKET #1617275189)

OWNER



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

SULLIVAN WELL PAD CLAY DISTRICT, MONONGALIA COUNTY, WV APRIL 2022

SHEET INDEX

- 1. TITLE SHEET
- 2-3. EVACUATION ROUTE/PREVAILING WIND
- 4. E&S CONTROL LAYOUT OVERVIEW
- 5-11. E&S CONTROL LAYOUT
- 12. E&S CONTROL AND SITE PLAN OVERVIEW
- 13-19. E&S CONTROL AND SITE PLAN
- 20. COUNTY ROAD PROFILE
- 21. COUNTY ROAD PROFILE, ACCESS ROAD PROFILE & PROFILES E-E', F-F' & G-G'
- 22-25. COUNTY ROAD CROSS-SECTIONS
- 26. WELL PAD & STOCKPILE PROFILES A-A', B-B', C-C' & D-D'
- 27-29. DETAILS
- 31. RECLAMATION PLAN OVERVIEW
- 32-37. RECLAMATION PLAN

TOTAL DISTURBED AREA: 28.65 AC.
ACCESS ROADS DISTURBED AREA: 8.29 AC.
COUNTY ROAD RIGHT-OF-WAY 5.04 AC.
WELL PAD DISTURBED AREA: 15.32 AC.

PROPERTY OWNER DISTURBANCE - 23.61 ACRES

JAMES LOUIS DOUKAS (TAX MAP AND PARCEL NUMBER 4-26-35) 4.86 AC.
ALAN SULLIVAN (TAX MAP AND PARCEL NUMBER 4-26-35.1) 7.63 AC.
DAVID L PRICE AND SUSAN ROSE PRICE (TAX MAP AND PARCEL NUMBER 4-26-27) 0.04 AC.
DAVID L PRICE AND SUSAN ROSE PRICE (TAX MAP AND PARCEL NUMBER 4-26-25) 0.54 AC.
LEONARD E DARRAH AND KERRY L DARRAH (TAX MAP AND PARCEL NUMBER 4-26-38) 3.72 AC.
YOST & YOST PIPE CO (TAX MAP AND PARCEL NUMBER 4-20-46) 0.22 AC.
CLIFTON E TENNANT JR (TAX MAP AND PARCEL NUMBER 4-26-43) 1.26 AC.
DAVID M LINDNER AND DAWN M LINDNER (TAX MAP AND PARCEL NUMBER 4-25-3) 3.19 AC.
LARRY F. & BRENDA KAY KUHN (TAX MAP AND PARCEL NUMBER 4-19-52) .11 AC.
JOHN CONAWAY AND PATRICIA CONAWAY (TAX MAP AND PARCEL NUMBER 4-25-1) 1.29 AC.
CONNIE HAMILTON (TAX MAP AND PARCEL NUMBER 4-25-1.1) .57 AC.
ORVILLE W BIEL JR (TAX MAP AND PARCEL NUMBER 4-25-2) 0.18 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.

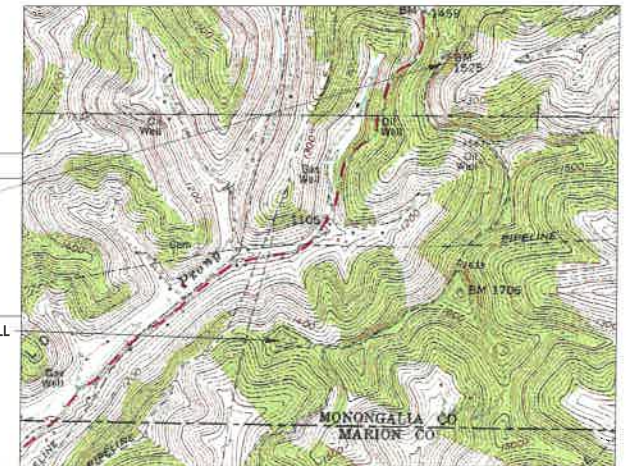


IN ACCORDANCE WITH WV 35 CSR 8 THE FOLLOWING EROSION & SEDIMENT CONTROL PLAN HAS BEEN DESIGNED IN ACCORDANCE WITH BEST MANAGEMENT PRACTICES ESTABLISHED BY THE CHIEF AND PROVIDED IN THE OFFICE'S EROSION AND SEDIMENT CONTROL FIELD MANUAL. A GENERAL CONSTRUCTION SEQUENCE, DESCRIPTION OF STABILIZATION METHODS,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

COORDINATES

SITE ENTRANCE
(NAD 83)
LAT: 39° 37' 40.33"
LONG: 80° 13' 49.39"
(NAD 27)
LAT: 39° 37' 40.04"
LONG: 80° 13' 50.12"

CENTER OF SULLIVAN WELL PAD
(NAD 83)
LAT: 39° 36' 53.15"
LONG: 80° 13' 22.77"
(NAD 27)
LAT: 39° 36' 52.86"
LONG: 80° 13' 23.49"



NO.	DATE	REVISIONS DESCRIPTION

TITLE SHEET

SULLIVAN WELL PAD
CLAY DISTRICT, MONONGALIA COUNTY, WV

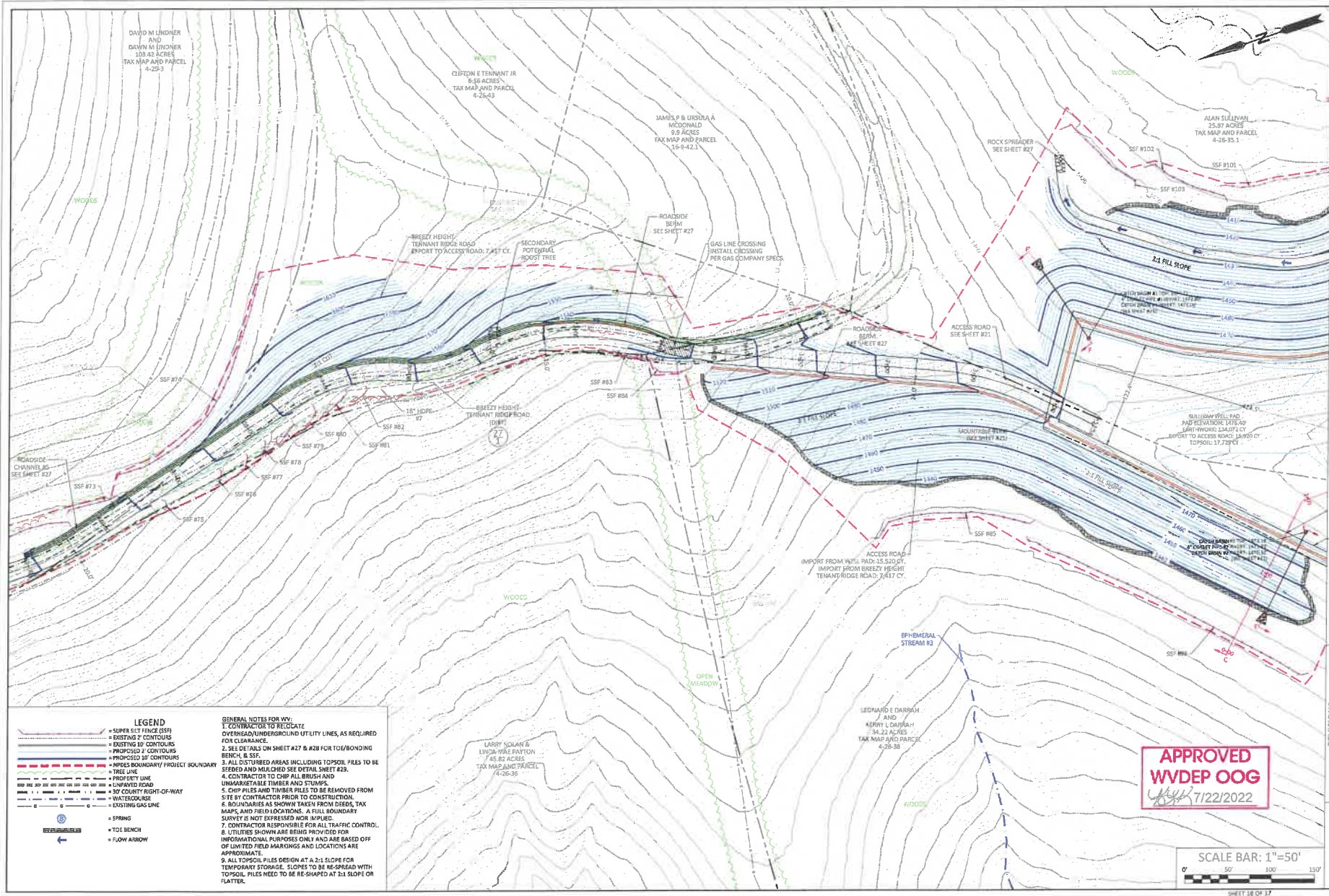
SHEET

1
OF
37

1"=1000'



4706101917



BOORD, BENCHEK and ASSOC., INC.
 Engineering, Surveying, Construction,
 and Mining Services
 Southpointe, 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**

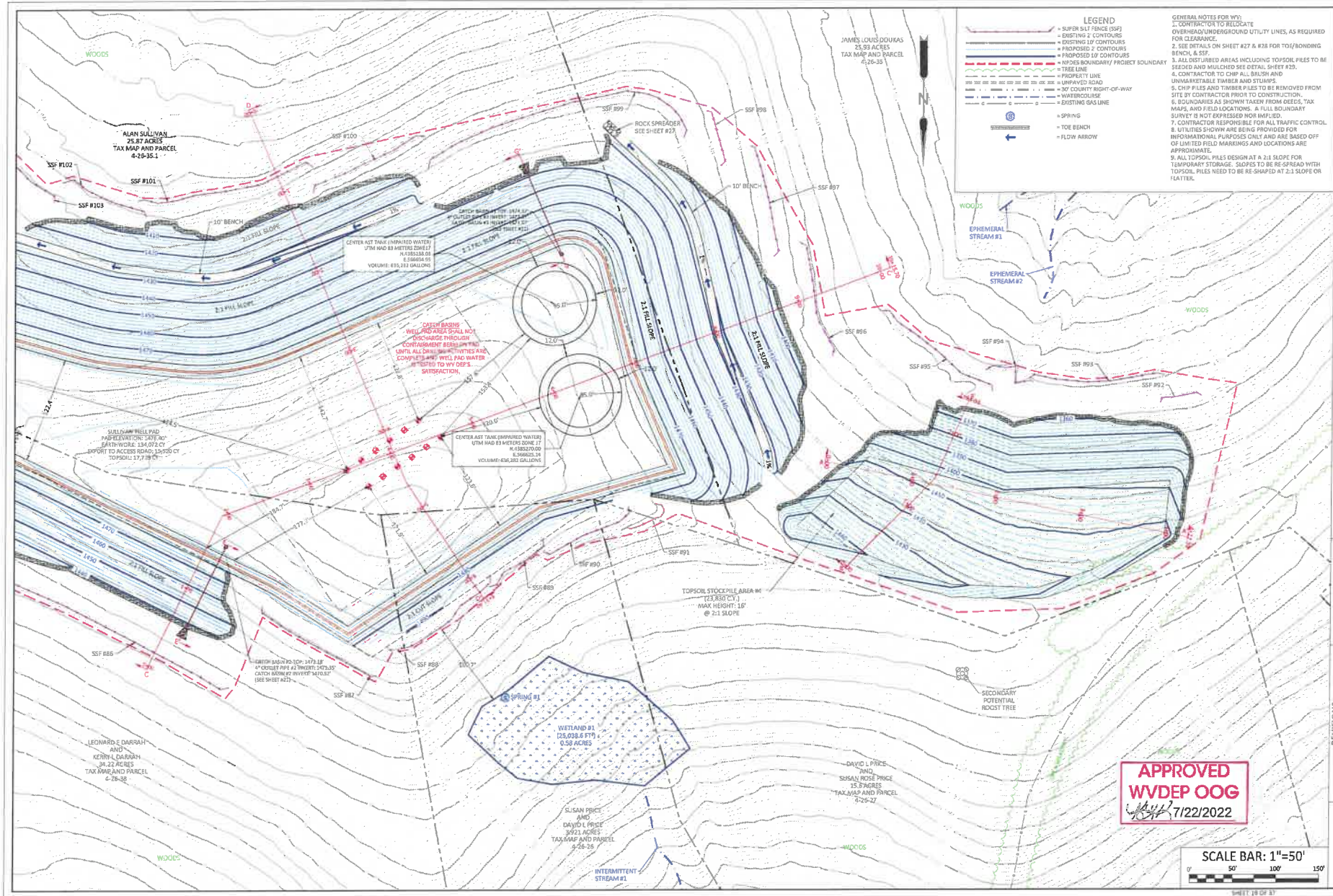
DATE:
 APRIL 2022
 SULLIVAN WELL PAD
 CLAY DISTRICT,
 MONONGALIA
 COUNTY, WV

NO.	REVISIONS DESCRIPTION

APPROVED
WVDEP OOG
[Signature] 7/22/2022



- LEGEND**
- SUPER SET FORCE (SSF)
 - EXISTING 2' CONTOURS
 - EXISTING 10' CONTOURS
 - PROPOSED 2' CONTOURS
 - PROPOSED 10' CONTOURS
 - WIPES BOUNDARY / PROJECT BOUNDARY
 - TREE LINE
 - PROPERTY LINE
 - UNPAVED ROAD
 - 30 COUNTY RIGHT-OF-WAY
 - WATERCOURSE
 - EXISTING GAS LINE
 - SPRING
 - TIDE BENCH
 - FLOW ARROW
- GENERAL NOTES FOR WVI:**
1. CONTRACTOR TO RELOCATE OVERHEAD/UNDERGROUND UTILITY LINES, AS REQUIRED FOR CLEARANCE.
 2. SEE DETAILS ON SHEET #27 & #28 FOR TOE/BONDING BENCH & S/S.
 3. ALL DISTURBED AREAS INCLUDING TOPSOIL PILES TO BE SEEDED AND MULCHED SEE DETAIL SHEET #29.
 4. CONTRACTOR TO CHIP ALL BRUSH AND UNMARKETABLE TIMBER AND STUMPS.
 5. CHIP PILES AND TIMBER PILES TO BE REMOVED FROM SITE BY CONTRACTOR PRIOR TO CONSTRUCTION.
 6. BOUNDARIES AS SHOWN TAKEN FROM DEEDS, TAX MAPS, AND FIELD LOCATIONS. A FULL BOUNDARY SURVEY IS NOT EXPRESSED NOR IMPLIED.
 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. SLOPES TO BE RE-SHAPED WITH TOPSOIL PILES NEED TO BE RE-SHAPED AT 2:1 SLOPE OR FLATTER.



BOORD, BENCHEK and ASSOC., INC.
Engineering, Surveying, Construction,
and Mining Services
Southpointe, 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: APRIL 2022
SULLIVAN WELL PAD
CLAY DISTRICT,
MONONGALIA
COUNTY, WV

NO.	DATE	DESCRIPTION
1	7/22/22	WVD EP OOG APPROVAL



OPERATOR: Northeast Natural Energy LLC WELL NO: 1H

PAD NAME: Sullivan

REVIEWED BY: Hollie Medley SIGNATURE: Hollie Medley

WELL RESTRICTIONS CHECKLIST

HORIZONTAL 6A WELL

Well Restrictions

- At Least 100 Feet from Pad and LOD (including any E&S Control Feature) to any Perennial Stream, Lake, Pond, Reservoir or Wetland; OR
 DEP Waiver and Permit Conditions
- At Least 300 Feet from Pad and LOD (including any E&S Control Feature) to any Naturally Producing Trout Stream; OR
 DEP Waiver and Permit Conditions
- At Least 1000 Feet from Pad and LOD (including any E&S Control Feature) to any Groundwater Intake or Public Water Supply; OR
 DEP Waiver and Permit Conditions
- At Least 250 Feet from an Existing Water Well or Developed Spring to Well Being Drilled; OR
 Surface Owner Waiver and Recorded with County Clerk, OR
 DEP Variance and Permit Conditions
- At Least 625 Feet from an Occupied Dwelling Structure to Center of the Pad; OR
 Surface Owner Waiver and Recorded with County Clerk, OR
 DEP Variance and Permit Conditions
- At Least 625 Feet from Agricultural Buildings Larger than 2500 Square Feet to the Center of the Pad; OR
 Surface Owner Waiver and Recorded with County Clerk, OR
 DEP Variance and Permit Conditions

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