



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

Friday, June 12, 2026
PERMIT MODIFICATION APPROVAL
Horizontal 6A / New Drill

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

Re: Permit Modification Approval for SULLIVAN 10H
47-061-02020-00-00

Lateral Extension with Forced Pooling

NORTHEAST NATURAL ENERGY LLC

The Office of Oil and Gas has reviewed the attached permit modification for the above referenced permit. The attached modification has been approved and well work may begin. Please be reminded that the oil and gas inspector is to be notified twenty-four (24) hours before permitted well work is commenced.

If there are any questions, please feel free to contact me at (304) 926- 0450.

A handwritten signature in black ink, reading "H. Jason Harmon".

H. Jason Harmon
Chief

Operator's Well Number: SULLIVAN 10H
Farm Name: ALAN SULLIVAN
U.S. WELL NUMBER: 47-061-02020-00-00
Horizontal 6A New Drill
Date Modification Issued: 06/12/2026

Promoting a healthy environment.

06/12/2026

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: 10H Well Pad Name: Sullivan

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

4) Elevation, current ground: N/A Elevation, proposed post-construction: 1,476'

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

Other _____

(b) If Gas Shallow X Deep _____

Horizontal X

6) Existing Pad: Yes or No Yes

7) Proposed Target Formation(s), Depth(s), Anticipated Thickness and Expected Pressure(s):
Marcellus, 7,998' - 8,104', 106', 5,025 psi

8) Proposed Total Vertical Depth: 8,082'

9) Formation at Total Vertical Depth: Marcellus

10) Proposed Total Measured Depth: 30,421'

11) Proposed Horizontal Leg Length: 21,457'

12) Approximate Fresh Water Strata Depths: 905'

13) Method to Determine Fresh Water Depths: Offset Wells

14) Approximate Saltwater Depths: 2,439'

15) Approximate Coal Seam Depths: 715' - 718' Washington Coal, 895' - 905' Pittsburgh Coal

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

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

(a) If Yes, provide Mine Info: Name: N/A

Depth: _____

Seam: _____

Owner: _____

Robert J. Hitt

4-14-26

WW-6B
(04/15)

4706102020

API NO. 47- _____
 OPERATOR WELL NO. 10H _____
 Well Pad Name: Sullivan _____

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	N/A	N/A	100'	100'	CTS ✓
Fresh Water	13-3/8"	New	J-55	54.5	1,230'	1,200'* ✓	CTS
Coal	-	-	-	-	-	-	-
Intermediate	9-5/8"	New	J-55	36	2,530'	2,500'	CTS
Production	5-1/2"	New	HP P-110	20	30,421'	30,371' ✓	6,637
Tubing	2-7/8"	New	P-110	6.5	N/A	N/A	N/A
Liners	-	-	-	-	-	-	-

*depth to cover Red Rock formation ✓

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"	32"	N/A	N/A	N/A	Class A or L	1.19
Fresh Water	13-3/8"	17-1/2"	0.380"	2,740	1,600	Class A or L ✓	1.14
Coal	-	-	-	-	-	-	-
Intermediate	9-5/8"	12-1/4"	0.352"	3,520	2,800	Class A or L	1.19
Production	5-1/2"	8-3/4"	0.361"	15,590 ✓	11,500	50:50 Poz	1.16
Tubing	2-7/8"	N/A	0.217"	13,870	N/A	N/A	N/A
Liners	-	-	-	-	RECEIVED Office of Oil and Gas	-	-

JUN 02 2026

WV Department of
Environmental Protection

PACKERS

Kind:				
Sizes:				
Depths Set:				

Robert J. Hitt
4-14-26

WW-6B
(10/14)

API NO. 47- _____
OPERATOR WELL NO. 10H _____
Well Pad Name: Sullivan _____

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 set with cement to surface. Mobilize drilling rig and drill surface section on air. Run surface (freshwater & coal string) casing to desired depth. The surface casing 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). 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 100bpm. Once frac has finished, a drill out rig will drill all the plugs out of the well. Flowback will then be rigged up and flowback of the well will begin until it is ready to be turned in line via casing flow. At a later time during the life of the well, production tubing will be installed based on the wells performance.

21) Total Area to be disturbed, including roads, stockpile area, pits, etc., (acres): 28.65 ac.

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

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 joint in the lateral to KOP. Bow springs from KOP to surface every third joint.

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 used to clean hole prior to tripping out of the hole.
Production casing will be circulated prior to cementing to ensure a prepared wellbore for cement.

*Note: Attach additional sheets as needed.

Robert J. Hitt

4-14-26

4706102020



NORTHEAST NATURAL ENERGY, LLC

Area: Monongalia County, WV
Field: Monongalia
Facility: Sullivan Pad
Slot: 10H

Well: Sullivan 10H
UWI/Legal: Sullivan 10H PWB
Wellbore: Sullivan 10H PWB
Wellpath: Sullivan 10H EX-05



Well Profile Data

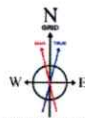
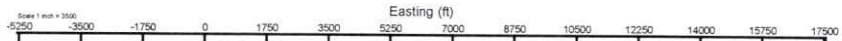
Design Comment	MD (ft)	Inc (°)	Az (°)	TVD (ft)	Local N (ft)	Local E (ft)	DLS (1/100ft)	VS (ft)
Tie On	25.00	0.00	54.200	25.00	0.00	0.00	0.00	0.00
End of Tangent	1250.00	0.00	54.200	1250.00	0.00	0.00	0.00	0.00
End of Build	1500.00	5.00	54.200	1499.68	6.38	8.84	2.00	0.02
End of Tangent	1600.00	5.00	54.200	1599.30	11.48	15.91	0.00	0.04
End of 3D Arc	2452.93	22.059	54.221	2425.50	127.72	177.18	2.00	0.48
KOP	7840.61	22.059	54.221	7418.81	1310.69	1818.70	0.00	5.11
LP	8964.98	90.000	144.087	8082.00	888.27	2456.44	8.00	721.29
BHL	30421.61	90.000	144.087	8082.00	-16489.61	15041.99	0.00	22177.92

Bottom Hole Location

MD (ft)	Inc (°)	Az (°)	TVD (ft)	Local N (ft)	Local E (ft)	Grid East (US ft)	Grid North (US ft)	Latitude	Longitude
30421.61	90.000	144.087	8082.00	-16489.61	15041.99	1779905.07	390382.46	39°34'11.563"N	80°10'8.5025"W

Hole and Casing Sections

Name	Start MD (ft)	End MD (ft)	Interval (ft)	Start TVD (ft)	End TVD (ft)	Start Local N (ft)	End Local N (ft)	Start Local E (ft)	End Local E (ft)	Wellbore
13 3/8in Casing	25.00	1200.00	1175.00	25.00	1200.00	0.00	0.00	0.00	0.00	Sullivan 10H PWB
9 5/8in Casing	25.00	2500.00	2475.00	25.00	2469.13	0.00	0.00	0.00	138.05	Sullivan 10H PWB
5 1/2in Casing	25.00	30421.61	30396.61	25.00	8082.00	0.00	0.00	-16489.61	15041.99	Sullivan 10H PWB



HOGM2025-1.0 (1900.0 to 2026.0) Dip: 96.08° Field: 51431.6 x11
Magnetic North is 9.13 degrees West of True North (at 2025-12-31)
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 9.59 degrees

For reference wellbore is Sullivan 10H EX-05
True vertical depth is referenced to Rig on Slot 10H (KOP)
Reference wellbore measured depth is referenced to Rig on Slot 10H (KOP)
Rig on Slot 10H (KOP) to Mean Sea Level: 1501.85 feet
Mean Sea Level is Ground level (at Slot 10H) - 1478.85 feet
Offset wellbore MDs are referenced to each other's defined MD datum
Coordinate system is based on 2011 NAD83 datum, WGS 84, EPSG:5083, UTM Zone 18N

Location Information

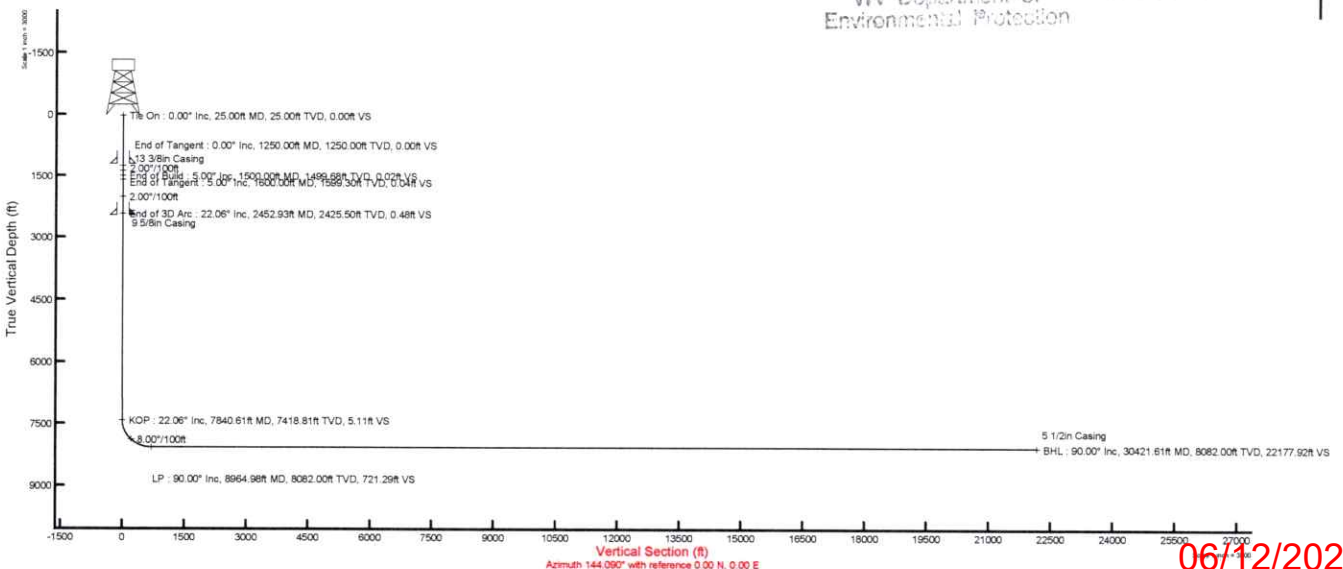
Facility Name	Grid East (US ft)	Grid North (US ft)	Latitude	Longitude
Sullivan Pad	17841.13	390382.46	39°34'11.563"N	80°10'8.5025"W
Slot	17841.13	390382.46	39°34'11.563"N	80°10'8.5025"W
MD	-11.00	49.00	39°34'11.563"N	80°10'8.5025"W
Rig on Slot 10H (KOP) to Mean Sea Level	-11.00	49.00	39°34'11.563"N	80°10'8.5025"W
Mean Sea Level to Ground level (at Slot 10H)	-11.00	49.00	39°34'11.563"N	80°10'8.5025"W
Rig on Slot 10H (KOP) to Mean Sea Level	-11.00	49.00	39°34'11.563"N	80°10'8.5025"W

Survey Program

Survey Type	Survey Method	Survey Date	Survey Time	Survey Location	Survey Status	Survey Notes
1	RTK	2025-12-31	14:00	Sullivan Pad	Complete	RTK survey completed
2	RTK	2025-12-31	14:00	Sullivan Pad	Complete	RTK survey completed
3	RTK	2025-12-31	14:00	Sullivan Pad	Complete	RTK survey completed

Targets

Name	MD (ft)	TVD (ft)	Local N (ft)	Local E (ft)	Grid East (US ft)	Grid North (US ft)	Latitude	Longitude
Sullivan 10H EX-05, rev 4	30421.61	8082.00	-16489.61	15041.99	1779905.07	390382.46	39°34'11.563"N	80°10'8.5025"W
Sullivan 10H LP rev 4	8964.98	8082.00	-16489.61	15041.99	1779905.07	390382.46	39°34'11.563"N	80°10'8.5025"W
Sullivan Pad HS, 1.3.18.2025 left	N/A	10000.00	-17747.62	14927.74	1779490.84	389124.29	39°33'46.087"N	80°10'13.672"W
Sullivan Pad HS, 1.3.18.2025 right	N/A	10000.00	-17747.62	14927.74	1779490.84	389124.29	39°33'46.087"N	80°10'13.672"W
Sullivan Pad HS, 1.3.18.2025	N/A	10000.00	-17747.62	14927.74	1779490.84	389124.29	39°33'46.087"N	80°10'13.672"W



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Office of Oil and Gas

JUN 02 2026

WV Department of
Environmental Protection

Sullivan10H BHL rev 4

06/12/2026

SULLIVAN 10H EXISTING GAS WELLS APRIL 1, 2026



SCALE: 1" = 2,200'



TOTAL DISTANCE BORED
FROM LP TO BH = 21,457'

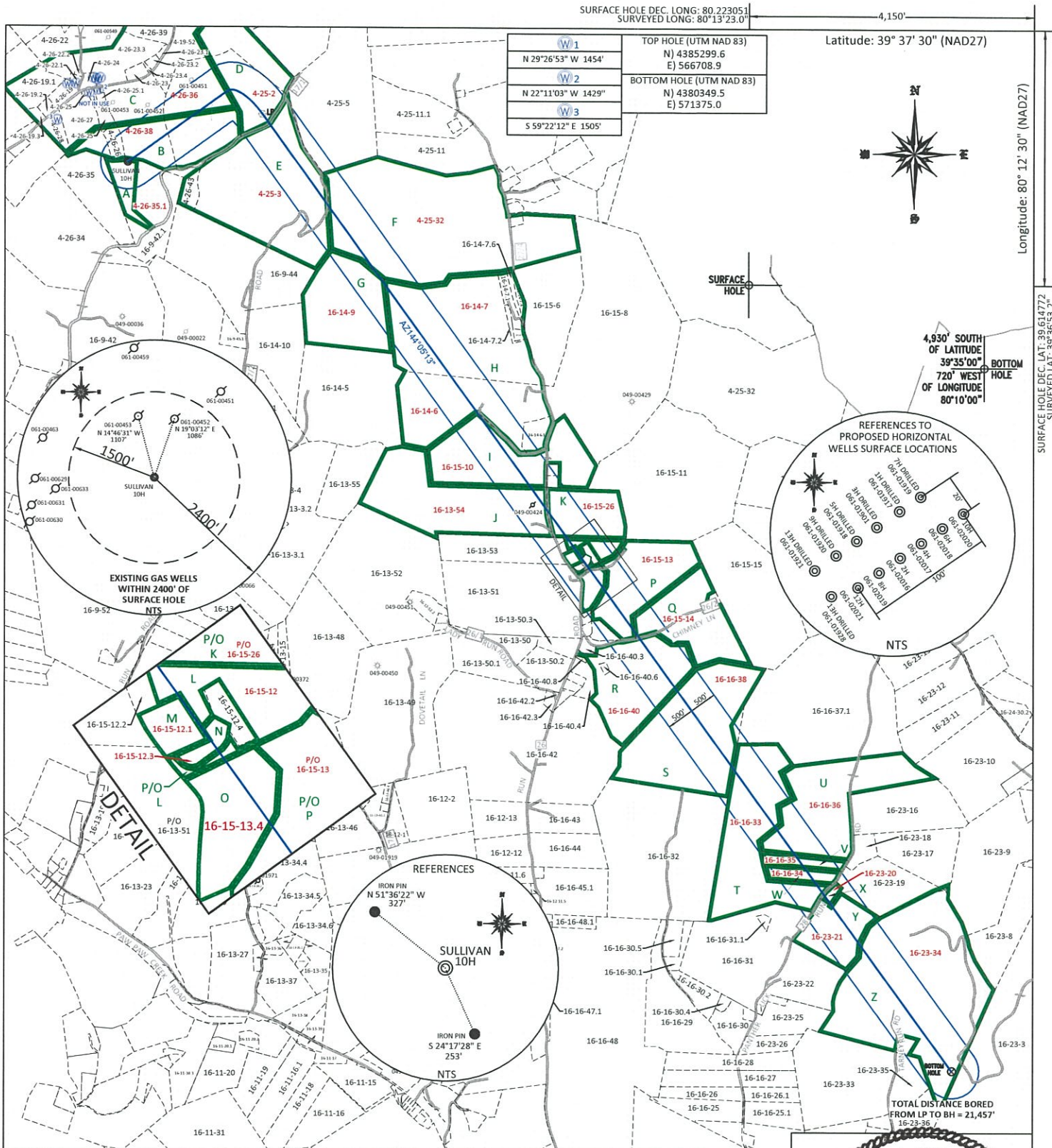
06/12/2026

Sullivan 10H AREA OF REVIEW

API Number	Well Name	Well Number	Operator	Latitude (NAD 83)	Longitude (NAD 83)	TMP	TVD	Producing Formation	Notes
061-00451	Milton A Ammons	NA	Diversified Production, LLC	39.618991	-80.218819	4-26-36	3077	NA	
049-00424	Pinkney Wilson	90	Carnegie Natural Gas Co.	39.597941	-80.196439	16-13-54	NA	NA	Plugged

WELL NAME: SULLIVAN 10H
Catherine's
MONONGALIA Co., WV / GRANT TOWN QUAD



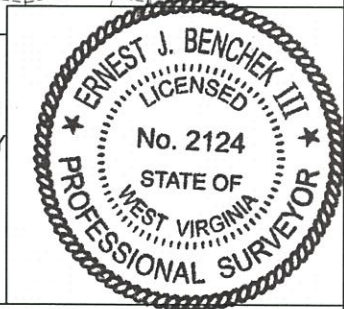


FILE #: NNE25
DRAWING #: 4142
SCALE: PLAT: 1" = 2500'
TICK MARK: 1" = 2000'
MINIMUM DEGREE OF ACCURACY: 1/200
PROVEN SOURCE OF ELEVATION: SUBMETER MAPPING GRADE GPS

I, THE UNDERSIGNED, HEREBY CERTIFY THAT THIS PLAT IS CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF AND SHOWS ALL THE INFORMATION REQUIRED BY LAW AND THE REGULATIONS ISSUED AND PRESCRIBED BY THE DEPARTMENT OF ENVIRONMENTAL PROTECTION.

Signed: 

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



(+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS
WVDEP
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: James T. McClimans, et al

LEASE NUMBERS:

DATE: JUNE 10, 2026

OPERATOR'S WELL #: SULLIVAN 10H

API WELL #: 47 61 02020
STATE COUNTY PERMIT

AS-BUILT ELEVATION: 1,476.7'

QUADRANGLE: GRANT TOWN

ACREAGE: 1644.291 +/-
ACREAGE: 25.870 +/-

06/12/2026

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

TARGET FORMATION: MARCELLUS

WELL OPERATOR: NORTHEAST NATURAL ENERGY LLC

ADDRESS: 707 VIRGINIA STREET EAST, SUITE 1200

CITY: CHARLESTON STATE: WV ZIP CODE: 25301

ESTIMATED DEPTH: TVD: 8,082' TMD: 30,421'

DESIGNATED AGENT: John Adams

ADDRESS: 707 VIRGINIA STREET EAST, SUITE 1200

CITY: CHARLESTON STATE: WV ZIP CODE: 25301

	PROPERTY OWNER INDEX
4-26-35.1	ALAN SULLIVAN
4-26-38	ADAM CLAY DARRAH
4-26-36	LARRY NOLAN & LINDA MAE PAYTON
4-25-2	ORVILLE W BELL JR & RENEE D LOAR
4-25-3	DAVID M & DAWN M LINDNER
4-25-32	EDWARD & KARLA STROSNIDER
16-14-9	GEORGE R & AVA B CARPENTER 1/2 & JOHN W & KAREN D 1/2 INT
16-14-7	NANCY HAMILTON
16-14-6	NANCY HAMILTON
16-15-10	BUCKVILLE ENTERPRISE LLC
16-13-54	NICHOLAS CARLYLE
16-15-26	NED O OR MARY A MERRIFIELD
16-15-12	TAMMY & RAYMOND FLUHARTY
16-15-12.1	JULIA A WAUGH
16-15-12.3	SAMANTHA J PARRISH
16-15-13.4	ROSE BOGGS
16-15-13	LARRY A & ELIZABETH A MAHANEY
16-15-14	BRYAN R BLEIGH
16-16-40	ROBERT P & LORETTA GRIFFIN
16-16-38	ROBERT W & KAREN S GUMINEY
16-16-33	DENNIS H & FRANCIS A FURBEE
16-16-36	SCOTT G & REBECCA D HAMILTON
16-16-35	DIANNE WILSON
16-16-34	DIANNE WILSON
16-23-20	DIANNE WILSON
16-23-21	BEVERLY A K & BRADLEY HOLZWART &/ ALBERT B EDDY II
16-23-34	MARY E STRAIGHT EST ETA

LEASE INDEX			
A	WV-061-006979-002	N	WV-049-106955-001
B	WV-061-006256-001	O	WV-049-106956-001
C	WV-061-006256-001	P	WV-049-107452-001
D	WV-061-005961-001	Q	WV-049-107226-001
E	WV-061-003690-001	R	WV-049-106812-002
F	WV-049-004080-001	S	WV-049-107219-001
G	WV-049-103851-002	T	WV-061-00219-001
H	WV-049-104088-006	U	WV-049-104699-032
I	WV-049-105191-000	V	WV-049-106958-005
J	WV-049-106950-001	W	WV-049-007592-001
K	WV-049-106950-001	X	WV-049-106958-005
L	WV-049-106810-001	Y	WV-061-00219-001
M	WV-049-106810-001	Z	WV-049-004477-001

06/12/2026

FILE #: <u>NNE20</u>	DATE: <u>JUNE 10, 2026</u>
DRAWING #: <u>4142</u>	OPERATOR'S WELL #: <u>SULLIVAN 10H</u>
SCALE: <u>N/A</u>	API WELL #: <u>47</u> <u>61</u> <u>02020</u> STATE COUNTY PERMIT

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

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

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

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

RECEIVED
Office of Oil and Gas

JUN 02 2026

WV Department of
Environmental Protection

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

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

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

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

Well Operator: Northeast Natural Energy LLC

By: Hollie Medley

Its: Regulatory Manager

SULLIVAN 10H WW6A1 ATTACHMENT

Plat Letter	NNE Lease #	Lessor Name	Lessee Name	Royalty	Memo DB	Memo PG
A	WV-061-006979-002	James T. McClimans, a/k/a James Todd McClimans	Northeast Natural Energy LLC	12.5% or higher	1876	193
	WV-061-006979-003	Basnett Oil & Gas, LLC	Northeast Natural Energy LLC	12.5% or higher	1876	196
	WV-061-006979-001	David M. McClimans, a/k/a David Mark McClimans	Northeast Natural Energy LLC	12.5% or higher	1876	191
	WV-061-006979-004	Pamela Whistler Cox	Northeast Natural Energy LLC	12.5% or higher	1886	67
B	WV-061-006256-001	Milton A. Ammons and Armenia Ammons; Charles Powell, Special Commissioner	C.J. Ford/South Penn Oil Co	12.5% or higher	27	1
	*See Ammons Chain attached					
C	WV-061-006256-001	Milton A. Ammons and Armenia Ammons; Charles Powell, Special Commissioner	C.J. Ford/South Penn Oil Co	12.5% or higher	27	1
	*See Ammons Chain attached					
D	WV-061-005961-001	Kenneth L. Haught a/k/a Kenneth Leon Haught, by his guardian and conservator Carlene S. Moore	Northeast Natural Energy LLC	12.5% or higher	1780	600
	WV-061-005961-002	Billy C. Haught a/k/a Billy Carl Haught and Betty A. Haught	Northeast Natural Energy LLC	12.5% or higher	1780	602
E*	WV-061-003690-001	West Virginia University Foundation, Inc.	Northeast Natural Energy LLC	12.5% or higher	1531	247
F	WV-049-004080-001	Margaret B. Couch	Northeast Natural Energy LLC	12.5% or higher	1563	708
	WV-049-004080-003	Mary Gayle Vinson	Northeast Natural Energy LLC	12.5% or higher	1563	712
	WV-049-004080-002	Candice Tennant Southard	Northeast Natural Energy LLC	12.5% or higher	1568	583
G	WV-049-103851-002	Neil P. Eddy	Northeast Natural Energy LLC	12.5% or higher	1377	265
	WV-049-103851-003	James E. Eddy	Northeast Natural Energy LLC	12.5% or higher	1377	267
	WV-049-103851-004	Michael J. Eddy	Northeast Natural Energy LLC	12.5% or higher	1377	269
	WV-049-103851-007	Kyle F. Eddy	Northeast Natural Energy LLC	12.5% or higher	1382	710
	WV-049-103851-005	Christina K. Benson	Northeast Natural Energy LLC	12.5% or higher	1380	419
	WV-049-103851-006	Natalie Eddy, a/k/a Natalie Green Eddy (Kenneth R. Eddy, heir)	Northeast Natural Energy LLC	12.5% or higher	1380	421
H*	WV-049-104088-006	Michael L. Eddy and D. Diana Eddy	Northeast Natural Energy LLC	12.5% or higher	1398	649
	WV-049-104088-007	Ronald E. Eddy, a/k/a Ronald Eugene Eddy, and Martha J. Eddy	Northeast Natural Energy LLC	12.5% or higher	1399	611
	WV-049-104088-008	Fay E. McCoy	Northeast Natural Energy LLC	12.5% or higher	1403	560
I	WV-049-105191-000	Buckville Enterprises, LLC	Northeast Natural Energy LLC	12.5% or higher	1228	423
J	WV-049-106950-001	Elk Range Royalties II, LP	Northeast Natural Energy LLC	12.5% or higher	1382	761
	WV-049-106950-002	Elk Range II Co-Invest, LLC	Northeast Natural Energy LLC	12.5% or higher	1382	764
K	WV-049-106950-001	Elk Range Royalties II, LP	Northeast Natural Energy LLC	12.5% or higher	1382	761
	WV-049-106950-002	Elk Range II Co-Invest, LLC	Northeast Natural Energy LLC	12.5% or higher	1382	764
L	WV-049-106810-001	Tammy Fluharty a/k/a Tammy L. Fluharty and Raymond Fluharty	Northeast Natural Energy LLC	12.5% or higher	1376	668
M	WV-049-106810-001	Tammy Fluharty a/k/a Tammy L. Fluharty and Raymond Fluharty	Northeast Natural Energy LLC	12.5% or higher	1376	668
	WV-049-106841-001	Tonya M. Harris	Northeast Natural Energy LLC	12.5% or higher	1377	361
	WV-049-106841-002	Wilmer D. Waugh, III	Northeast Natural Energy LLC	12.5% or higher	1377	363
N	WV-049-106955-001	Samantha J. Parrish	Northeast Natural Energy LLC	12.5% or higher	1382	239
O	WV-049-106956-001	Joseph L. Mahaney	Northeast Natural Energy LLC	12.5% or higher	1382	241
P	WV-049-107452-001	Brian K. Boggs et al.	Northeast Natural Energy LLC	12.5% or higher	1409	406
Q	WV-049-107226-001	Emory Peak Minerals II, LLC	Northeast Natural Energy LLC	12.5% or higher	1392	114
R*	WV-049-106812-002	MNE Properties, LLC	Northeast Natural Energy LLC	12.5% or higher	1382	190
	WV-049-106812-008	Donald Craig McCoy	Northeast Natural Energy LLC	12.5% or higher	1389	832
	WV-049-106812-001	Michael L. Eddy and D. Diana Eddy	Northeast Natural Energy LLC	12.5% or higher	1376	670
	WV-049-106844-001	James Edward King, Jr.	Northeast Natural Energy LLC	12.5% or higher	1377	365
	WV-049-106844-002	Melissa Jane Clark	Northeast Natural Energy LLC	12.5% or higher	1380	446
	WV-049-106812-003	MNE Properties, LLC	Northeast Natural Energy LLC	12.5% or higher	1382	192
	WV-049-106812-004	Ronald E. Eddy, a/k/a Ronald Eugene Eddy and Martha J. Eddy	Northeast Natural Energy LLC	12.5% or higher	1382	198
	WV-049-106812-005	Fay Edward McCoy	Northeast Natural Energy LLC	12.5% or higher	1382	718
	WV-049-106812-006	Doris Lorraine Yost	Northeast Natural Energy LLC	12.5% or higher	1382	720
	WV-049-106938-001	DUC Hunter, LLC	Northeast Natural Energy LLC	12.5% or higher	1382	732
	WV-049-106958-001	Joni L. Wilson	Northeast Natural Energy LLC	12.5% or higher	1382	243
	WV-049-106958-002	Connie Wilson	Northeast Natural Energy LLC	12.5% or higher	1382	267
	WV-049-106958-003	Mary Beth Barnett and Christopher Barnett	Northeast Natural Energy LLC	12.5% or higher	1382	245
	WV-049-106958-004	Donald A. Travinski	Northeast Natural Energy LLC	12.5% or higher	1382	734
	WV-049-106958-005	Billie Tennant	Northeast Natural Energy LLC	12.5% or higher	1385	824
	WV-049-106958-006	Beverly Lloyd	Northeast Natural Energy LLC	12.5% or higher	1385	826
	WV-049-106812-007	Carol E. Austin, a/k/a Carol Elizabeth Austin	Northeast Natural Energy LLC	12.5% or higher	1388	62
	WV-049-106958-007	Ronald J. Wilcox	Northeast Natural Energy LLC	12.5% or higher	1388	64
	WV-049-106958-008	MNE Properties LLC	Northeast Natural Energy LLC	12.5% or higher	1392	872
S*	WV-049-107219-001	Deborah K. Hoover	Northeast Natural Energy LLC	12.5% or higher	1397	109
	WV-049-107219-002	Patricia A. DeRosa	Northeast Natural Energy LLC	12.5% or higher	1397	111
	WV-049-107219-003	Christy L. Ahsanullah	Northeast Natural Energy LLC	12.5% or higher	1397	113
	WV-049-107219-004	Lois J. Ferguson	Northeast Natural Energy LLC	12.5% or higher	1398	502
T	WV-061-00219-001	EQT Production Company	Northeast Natural Energy LLC	12.5% or higher	1415	892
	WV-049-104699-032	Joseph Killimayer, Jr.	Northeast Natural Energy LLC	12.5% or higher	1391	975
	WV-049-104699-002	Cynthia Sue Eddy, a/k/a Cynthia Sue Eddy Phillips	Northeast Natural Energy LLC	12.5% or higher	1385	742
	WV-049-104699-003	Charles Allen Jones	Northeast Natural Energy LLC	12.5% or higher	1385	744
	WV-049-104699-004	Cathy Marie Rohr, f/k/a Cathy Marie Jones	Northeast Natural Energy LLC	12.5% or higher	1385	746
	WV-049-104699-005	M. Kay Jones, a/k/a Melinda Kay Jones	Northeast Natural Energy LLC	12.5% or higher	1385	748
	WV-049-104699-006	Merle Lee Hawkins	Northeast Natural Energy LLC	12.5% or higher	1385	750
	WV-049-104699-007	Roy L. Tennant	Northeast Natural Energy LLC	12.5% or higher	1385	752
	WV-049-104699-008	Lelia C. Floyd, a/k/a Lelia Catherine Eddy Floyd	Northeast Natural Energy LLC	12.5% or higher	1385	754

06/12/2026

U*	WV-049-104699-009	Sandra L. Hempfling, a/k/a Sandra L. Downs Hempfling	Northeast Natural Energy LLC	12.5% or higher	1385	756
	WV-049-104699-013	Peggy L. Moore, f/k/a Peggy L. Jones	Northeast Natural Energy LLC	12.5% or higher	1386	565
	WV-049-104699-010	MNE Properties LLC	Northeast Natural Energy LLC	12.5% or higher	1388	22
	WV-049-104699-011	MNE Properties LLC	Northeast Natural Energy LLC	12.5% or higher	1388	24
	WV-049-104699-012	MNE Properties LLC	Northeast Natural Energy LLC	12.5% or higher	1388	26
	WV-049-104699-014	MNE Properties LLC	Northeast Natural Energy LLC	12.5% or higher	1388	28
	WV-049-104699-015	MNE Properties LLC	Northeast Natural Energy LLC	12.5% or higher	1388	28
	WV-049-104699-016	Dawn R. Field, a/k/a Dawn Rachelle Field	Northeast Natural Energy LLC	12.5% or higher	1388	45
	WV-049-104699-017	Jessica O'Hara, a/k/a Jessica Knight O'Hara, f/k/a Jessica Knight	Northeast Natural Energy LLC	12.5% or higher	1388	47
	WV-049-104699-018	John R. Jones	Northeast Natural Energy LLC	12.5% or higher	1388	49
	WV-049-104699-019	Nick Alan Jones	Northeast Natural Energy LLC	12.5% or higher	1388	51
	WV-049-104699-020	Mary Leigh Morrison Cox	Northeast Natural Energy LLC	12.5% or higher	1388	53
	WV-049-104699-021	Layla Zrebeet, f/k/a Layla Morris	Northeast Natural Energy LLC	12.5% or higher	1388	55
	WV-049-104699-024	Eric Keith Jones	Northeast Natural Energy LLC	12.5% or higher	1391	245
	WV-049-104699-025	Kirk Eugene Jones	Northeast Natural Energy LLC	12.5% or higher	1391	247
	WV-049-104699-026	Edward L. Morris, a/k/a Edward Lee Morris	Northeast Natural Energy LLC	12.5% or higher	1391	249
	WV-049-104699-028	Kathryn Stephens	Northeast Natural Energy LLC	12.5% or higher	1391	251
	WV-049-104699-029	Melissa Rodriguez	Northeast Natural Energy LLC	12.5% or higher	1391	971
	WV-049-104699-031	Albert C. Morris, a/k/a Albert Carroll Morris	Northeast Natural Energy LLC	12.5% or higher	1391	973
	WV-049-104699-027	MNE Properties LLC	Northeast Natural Energy LLC	12.5% or higher	1392	870
	WV-049-104699-030	Nancy Louise Morrison Stinnett	Northeast Natural Energy LLC	12.5% or higher	1393	166
	WV-049-104699-033	Ralph J. Morris, Jr.	Northeast Natural Energy LLC	12.5% or higher	1393	164
	WV-049-104699-034	Kenneth Jones	Northeast Natural Energy LLC	12.5% or higher	1393	162
	WV-049-104699-035	Lois Irene Stewart, by her Attorney-In-Fact, Ronald R. Johnson	Northeast Natural Energy LLC	12.5% or higher	1393	160
	WV-049-104699-038	Deborah Butler	Northeast Natural Energy LLC	12.5% or higher	1394	342
	WV-049-104699-036	MNE Properties LLC	Northeast Natural Energy LLC	12.5% or higher	1397	115
	WV-049-104699-039	MNE Properties LLC	Northeast Natural Energy LLC	12.5% or higher	1397	119
	WV-049-104699-040	Richard A. Arnold	Northeast Natural Energy LLC	12.5% or higher	1398	13
	WV-049-104699-043	Larry D. Arnold	Northeast Natural Energy LLC	12.5% or higher	1398	487
	WV-049-104699-044	Kenneth LePage	Northeast Natural Energy LLC	12.5% or higher	1398	489
	WV-049-104699-045	Michael Joseph Moore, by his Attorney-In-Fact Miranda Lynn Moore	Northeast Natural Energy LLC	12.5% or higher	1398	491
	WV-049-104699-047	Pamela Pucino	Northeast Natural Energy LLC	12.5% or higher	1398	494
	WV-049-104699-049	Center United Methodist Church, a/k/a Center Methodist Church of Center RD. # 13, Cambridge, Ohio	Northeast Natural Energy LLC	12.5% or higher	1398	651
	WV-049-104699-041	MNE Properties LLC	Northeast Natural Energy LLC	12.5% or higher	1401	215
	WV-049-104699-042	MNE Properties LLC	Northeast Natural Energy LLC	12.5% or higher	1401	217
	WV-049-104699-050	MNE Properties LLC	Northeast Natural Energy LLC	12.5% or higher	1401	219
	WV-049-104699-051	Shirli Ann Beeson, a/k/a Shirli Ann Barker Beeson	Northeast Natural Energy LLC	12.5% or higher	1401	200
	WV-049-104699-054	Barbara Jean Jones	Northeast Natural Energy LLC	12.5% or higher	1402	1034
	WV-049-104699-048	MNE Properties LLC	Northeast Natural Energy LLC	12.5% or higher	1403	694
	WV-049-104699-052	MNE Properties LLC	Northeast Natural Energy LLC	12.5% or higher	1405	1078
	WV-049-104699-055	George S. Dombroski	Northeast Natural Energy LLC	12.5% or higher	1405	570
	WV-049-104699-056	Cynthia Calli Roe a/k/a Cynthia J. Calli	Northeast Natural Energy LLC	12.5% or higher	1405	572
	WV-049-104699-057	Patty Joan Tharp, f/k/a Joan Gall, by her Attorney-In-Fact Keven H. Gall	Northeast Natural Energy LLC	12.5% or higher	1405	574
	WV-049-104699-058	Beulah L. Jones Royston Rusk	Northeast Natural Energy LLC	12.5% or higher	1405	576
	WV-049-104699-059	William Michael McWilliams	Northeast Natural Energy LLC	12.5% or higher	1405	1060
V	WV-049-106958-005	Billie Tennant	Northeast Natural Energy LLC	12.5% or higher	1385	824
	WV-049-106958-006	Beverly Lloyd	Northeast Natural Energy LLC	12.5% or higher	1385	826
	WV-049-106958-007	Ronald J. Wilcox	Northeast Natural Energy LLC	12.5% or higher	1388	64
	WV-049-106974-003	MNE Properties LLC	Northeast Natural Energy LLC	12.5% or higher	1388	30
	WV-049-106974-004	MNE Properties LLC	Northeast Natural Energy LLC	12.5% or higher	1388	32
	WV-049-106974-005	MNE Properties LLC	Northeast Natural Energy LLC	12.5% or higher	1388	34
	WV-049-106958-008	MNE Properties LLC	Northeast Natural Energy LLC	12.5% or higher	1392	872
	WV-049-106974-007	MNE Properties LLC	Northeast Natural Energy LLC	12.5% or higher	1394	375
	WV-049-106974-006	MNE Properties LLC	Northeast Natural Energy LLC	12.5% or higher	1398	71
W	WV-049-007592-001	Dianne Wilson	Northeast Natural Energy LLC	12.5% or higher	1415	139
X*	WV-049-106958-005	Billie Tennant	Northeast Natural Energy LLC	12.5% or higher	1385	824
	WV-049-106958-006	Beverly Lloyd	Northeast Natural Energy LLC	12.5% or higher	1385	826
	WV-049-106958-007	Ronald J. Wilcox	Northeast Natural Energy LLC	12.5% or higher	1388	64
	WV-049-106974-003	MNE Properties LLC	Northeast Natural Energy LLC	12.5% or higher	1388	30
	WV-049-106974-004	MNE Properties LLC	Northeast Natural Energy LLC	12.5% or higher	1388	32
	WV-049-106974-005	MNE Properties LLC	Northeast Natural Energy LLC	12.5% or higher	1388	34
	WV-049-106906-005	LeRoy C. Schulz	Northeast Natural Energy LLC	12.5% or higher	1391	979
	WV-049-106958-008	MNE Properties LLC	Northeast Natural Energy LLC	12.5% or higher	1392	872
	WV-049-106906-003	Gary Ralph Straight	Northeast Natural Energy LLC	12.5% or higher	1393	132
	WV-049-106906-006	John D. Downes, III	Northeast Natural Energy LLC	12.5% or higher	1394	346
	WV-049-106906-007	June Ellen Spates	Northeast Natural Energy LLC	12.5% or higher	1394	462
	WV-049-106906-008	Judith Kay Fenn	Northeast Natural Energy LLC	12.5% or higher	1394	907
	WV-049-106906-009	Karen Brittingham	Northeast Natural Energy LLC	12.5% or higher	1394	905
	WV-049-106974-007	MNE Properties LLC	Northeast Natural Energy LLC	12.5% or higher	1394	375
	WV-049-106906-010	Gaylord A. Schulz	Northeast Natural Energy LLC	12.5% or higher	1397	98
	WV-049-106974-006	MNE Properties LLC	Northeast Natural Energy LLC	12.5% or higher	1398	71
	WV-049-106906-011	Cherry L. Tope, f/k/a Cheryl J. Schultz	Northeast Natural Energy LLC	12.5% or higher	1401	204
Y	WV-061-00219-001	EQT Production Company	Northeast Natural Energy LLC	12.5% or higher	1415	892
Z	WV-049-004477-001	Guy Robison	Northeast Natural Energy LLC	12.5% or higher	1211	877
	WV-049-004477-002	Glenn Robison	Northeast Natural Energy LLC	12.5% or higher	1211	872
	WV-049-106941-001	Susan Regester and David Regester	Northeast Natural Energy LLC	12.5% or higher	1382	233

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Environmental Protection

WV-049-106942-001		Patricia Ann Jones and David Jones		Northeast Natural Energy LLC	12.5% or higher	1382	236
<i>*Subject to the OGCC HUO Hearing on 6/11/2026</i>							
Note: All agreements to Marion Natural Energy LLC are subject to a Consent to Development Agreement with Northeast Natural Energy LLC filed at 1330/525 in Marion County.							
Tract	Lease Number	Grantor, Lessor, etc.	Grantee, Lessee, etc.	Royalty	Book	Page	
B; C	WV-061-005256-001	Milton A. Ammons and Armina Ammons	C.J. Ford	12.5% or higher	27	1	
		Charles J. Ford	South Penn Oil Company	Assignment	27	287	
		South Penn Oil Company	South Penn Natural Gas Company	Assignment	304	457	
		South Penn Natural Gas Company	South Penn Oil Company	Deed	580	311	
		South Penn Oil Company	Pennzoil Company	Name Change	50	573	
		Pennzoil Company	Pennzoil Products Company	Assignment	23	280	
		Pennzoil Products Company	Pennzoil Exploration and Production Company	Assignment	53	69	
		Pennzoil Exploration and Production Company	Pennzenergy Exploration and Production, LLC	Merger	N/A	N/A	
		Pennzenergy Exploration and Production, LLC	Devon Energy Production Company, LLC	Merger	N/A	N/A	
		Devon Energy Production Company, LLC	East Resources, Inc.	Deed	1207	146	
		East Resources, Inc.	HG Energy LLC	Assignment	110	500	
		East Resources, Inc. and HG Energy, LLC	American Energy - Marcellus, LLC	Assignment	123	43	
		East Resources, Inc. and HG Energy, LLC	American Energy - Marcellus, LLC	Assignment	158	434	
		American Energy - Marcellus, LLC	Ascent Resources Marcellus, LLC	Name Change	122	85	
		Ascent Resources Marcellus, LLC	EQT Production Company	Assignment	132	166	
		EQT Production Company	Northeast Natural Energy LLC	Trade Agreement	1415	892	

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WV Department of
Environmental Protection



March 27, 2026

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

RE: Sullivan 10H

Dear Permit Reviewer:

Please be advised that Northeast Natural Energy LLC has the right to drill, extract and produce the minerals beneath the following as identified on the included plat:

- Laurel Run Rd (17/2)
- Chimney Lane
- Robinson Run Rd (26)
- Panther Lick (28)
- Rush Run Rd (17/1)

Sincerely,

A handwritten signature in blue ink, reading 'Tyler C. Murray', is written over a horizontal line.

Tyler Murray
Landman II

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Office of Oil and Gas

JUN 02 2026

WV Department of
Environmental Protection



June 1, 2026

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

Re: Sullivan 2H, 4H, 6H, 8H, 10H, & 12H Expedited Modification- Lateral Extensions

Dear Permit Reviewer,

Northeast Natural Energy LLC ("NNE") is requesting modifications to extend the lateral lengths of the proposed Sullivan 2H, 4H, 6H, 8H, 10H, & 12H wells. The proposed wells will be in the Clay District of Monongalia County, WV.

Enclosed please find the following documents for each well: WW6B, Well Bore Schematic, WW6A1 and attachments, Mylar Plat, Area of Review, and a check for \$45,000 for the expedited review fees.

The Site Safety Plan, Safety Data Sheets, an electronic copy of the Sullivan Well Site Plan, and the As-Built Well Site Plan can be found at the link below.

<https://northeastnaturalenergy.box.com/v/NNESullivanMOD2026>

Should you have any questions please contact me at hmedley@nne-llc.com.

Sincerely,

A handwritten signature in black ink, appearing to read 'Hollie Medley', with a long, sweeping horizontal line extending to the right.

Hollie Medley
Regulatory Manager