



---

west virginia department of environmental protection

---

Office of Oil and Gas  
601 57<sup>th</sup> Street, S.E.  
Charleston, WV 25304  
(304) 926-0450  
fax: (304) 926-0452

Harold D. Ward, Cabinet Secretary  
[www.dep.wv.gov](http://www.dep.wv.gov)

Monday, September 9, 2024  
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 ERP 5H  
47-061-01960-00-00

**Lateral Revision**

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.

James A. Martin  
Chief

Operator's Well Number: ERP 5H  
Farm Name: PHOENIX ENERGY RESOURCES  
U.S. WELL NUMBER: 47-061-01960-00-00  
Horizontal 6A New Drill  
Date Modification Issued: 09/09/2024

Promoting a healthy environment.

09/13/2024

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 Battelle Wadestown  
Operator ID County District Quadrangle

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

3) Farm Name/Surface Owner: Phoenix Energy Resources LLC Public Road Access: Route 17/Miracle Run Rd

4) Elevation, current ground: NA Elevation, proposed post-construction: 1,338' (built)

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, 8,113', 99', 5200 psi ✓

8) Proposed Total Vertical Depth: 8,062' ✓

9) Formation at Total Vertical Depth: Marcellus ✓

10) Proposed Total Measured Depth: 22,671' ✓

RECEIVED  
Office of Oil and Gas

11) Proposed Horizontal Leg Length: 14,054'

SEP 16 2024

12) Approximate Fresh Water Strata Depths: 1,217' ✓

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

14) Approximate Saltwater Depths: 2,470' ✓

15) Approximate Coal Seam Depths: 1,119'

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  active/non-producing No \_\_\_\_\_

(a) If Yes, provide Mine Info: Name: Federal #2  
Depth: 1,230'  
Seam: Pittsburgh  
Owner: Phoenix Federal No 2 Mining, LLC

Gayne  
Knitowski,  
Inspector  
Digitally signed by Gayne  
Knitowski, Inspector  
Date: 2024.09.03 10:33:12  
-0400'

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 ✓	CTS
Fresh Water	13-3/8	New	J-55	54.5	1,350'	1,320 ✓	CTS ✓
Coal							
Intermediate	9-5/8	New	J-55	36	2,640'	2,610 ✓	CTS
Production	5-1/2	New	P-110	20	22,671'	22,641' ✓	5,404
Tubing	2-7/8	New	P-110	6.5	NA		
Liners							

Digitally signed by Gayne Knitowski, Inspector  
Date: 2024.09.03 10:33:41 -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	2730	500	Class A or L ✓	1.19
Coal							
Intermediate	9-5/8	12-3/8	0.395	3520	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	2-7/5	NA	0.217	13,870	NA	NA	NA
Liners							

**PACKERS**

Kind:				RECEIVED Office of Oil and Gas  SEP 6 2024  WV Department of Environmental Protection
Sizes:				
Depths Set:				

WW-6B  
(10/14)

RECEIVED  
Office of Oil and Gas

SEP 6 2024

WV Department of  
Environmental Protection

API NO. 47-061 - 01960

OPERATOR WELL NO. 5H

Well Pad Name: ERP

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): 51.23 (built) + 4.60 (expansion)

22) Area to be disturbed for well pad only, less access road (acres): 29.70 (built) + 4.60 (expansion)

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.

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

Surface string cement will be a Type 1 + Max 3% bwoc Calcium Chloride Fresh Water blend.  
Intermediate string cement will be a Type 1 Cement + Max 3% bwoc Calcium Chloride + Fresh Water.  
Production string cement will be (50:50) Poz (Fly Ash):Type I Cement with a gas migration additive.

25) Proposed borehole conditioning procedures:

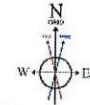
Surface & intermediate on air will utilize high volumetric flow rates of air to ensure the wellbore is clean prior to TOH.  
Production section will utilize synthetic oil based drilling mud to properly clean the wellbore. At TD, pump rate and rotation will be maximized and tripping will not begin until shakers flow clean.  
Production casing will be circulated prior to cementing to ensure a prepared wellbore for cement.

\*Note: Attach additional sheets as needed.

# NORTHEAST NATURAL ENERGY, LLC

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

Slot: Slot 5H  
 Well: ERP 5H  
 Wellbore: ERP 5H PWB



H0040231 1800.0 to 2024.0 (D) Dip: 80.27° Field: S1678 T=1  
 Magnetic North is 9.00 degrees West of True North (at 12/31/2023)  
 Grid North is 0.00 degrees West of True North  
 To correct azimuth from True to Grid add 0.00 degrees  
 To correct azimuth from Magnetic to Grid subtract 8.51 degrees

Reference wellpath is ERP 5H PWB 5425	Grid System: NAD83 / Lambert West Virginia SP, Northern Zone (4791), US feet
True vertical depths are referenced to Rig on Slot 7 (RT)	North Reference: Grid North
Reference wellpath measured depths are referenced to Rig on Slot 7 (RT)	Scale: True distance
Rig on Slot 7 (RT) to Mean Sea Level: 1338 feet	Coordinates are in feet referenced to Slot
Mean Sea Level to Ground level (At Slot: Slot 5H) = 1338 feet	Depths are in feet
Offset wellpath MDs are referenced to each path's default MD datum	Created by manager on 2024-09-26; Database: WVA_MPL_EASTERNUS_Dat

Location Information						
Facility Name	Grid East (US ft)	Grid North (US ft)	Latitude	Longitude	Slot	Local N (ft)
ERP Pad	17508.11 860	42658.070	39°40'25.3685"N	80°16'24.2100"W	Slot 5H	-22.74
						19.90
	1750831.860	426415.330	39°40'25.1454"N	80°16'23.9536"W		
Rig on Slot 7 (RT) to Ground level (At Slot: Slot 5H)						0.00
Mean Sea Level to Ground level (At Slot: Slot 5H)						-1338.00
Rig on Slot 7 (RT) to Mean Sea Level						1338.00

Well Profile Data							
Design Comment	MD (ft)	Inc (°)	Ac (°)	TVD (ft)	Local N (ft)	Local E (ft)	DLS (°/100ft)
Tie On	0.00	0.000	140.000	0.00	0.00	0.00	0.00
Start Nudge	2800.00	0.000	140.000	2800.00	0.00	0.00	0.00
Start Tangent	3300.00	15.000	140.000	3294.31	-49.85	41.83	3.00
Start Drop	3600.00	15.000	140.000	3584.09	-109.33	91.74	0.00
Vertical	4350.00	0.000	41.079	4325.55	-184.11	154.49	2.00
KOP	5200.00	0.000	41.079	5175.55	-184.11	154.49	0.00
Start Tangent	5790.98	17.729	41.079	5757.14	-115.73	214.09	3.00
Curve KOP	7549.96	17.729	41.079	7432.58	288.04	566.06	0.00
Landing PI	8617.37	80.000	326.373	8062.00	989.95	332.35	8.00
BHL	22871.13	80.000	326.373	8062.00	12692.01	-7450.32	0.00

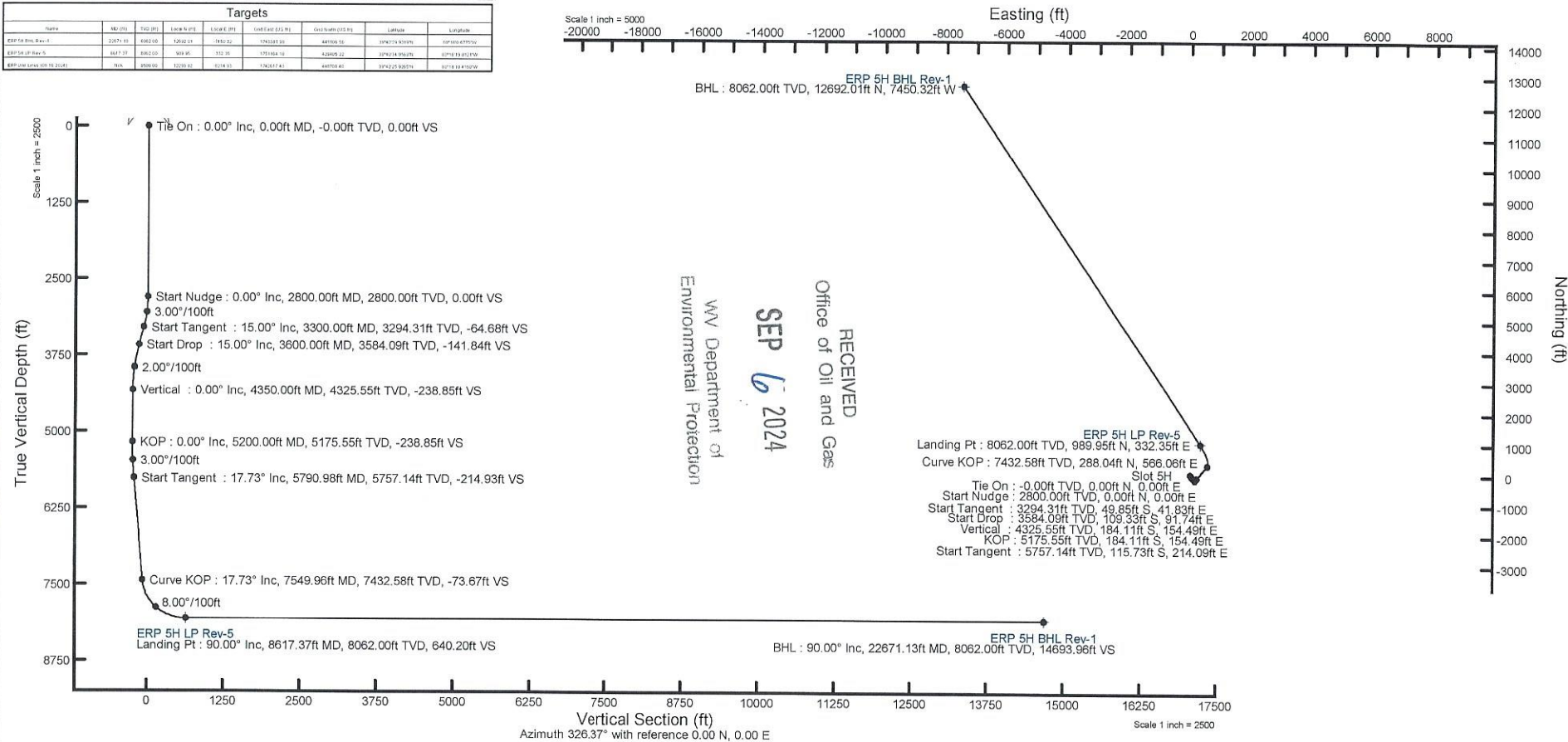
Targets							
Name	MD (ft)	TVD (ft)	Local N (ft)	Local E (ft)	Grid East (US ft)	Grid North (US ft)	Latitude
ERP 5H LP Rev-5	2800.00	2800.00	0.00	0.00	17508.11	42658.07	39°40'25.3685"N
ERP 5H BHL Rev-1	8062.00	8062.00	989.95	332.35	22871.13	12692.01	80°16'23.9536"W

Survey Program					
Start MD (ft)	End MD (ft)	Tool	Model	Log Name/Comment	Wellbore
1750	1750.00	BN Geomatics gprc - northwarping	BN Geomatics gprc - northwarping (Database)		ERP 5H PWB
1750.00	8100.00	04050 MWDW02	04050 MWDW02 - 04050		ERP 5H PWB
1750.00	22871.13	BN Geomatics gprc - northwarping (2024)	BN Geomatics gprc - northwarping (2024) (Database)		ERP 5H PWB

Hole and Casing Sections										
Name	Start MD (ft)	End MD (ft)	Interval (ft)	Start TVD (ft)	End TVD (ft)	Start Local N (ft)	Start Local E (ft)	End Local N (ft)	End Local E (ft)	Wellbore
17.5m Open Hole	0.00	1350.00	1350.00	0.00	1350.00	0.00	0.00	0.00	0.00	ERP 5H PWB
13.25m Casing Surface	0.00	1320.00	1320.00	0.00	1320.00	0.00	0.00	0.00	0.00	ERP 5H PWB
13.25m Open Hole	1350.00	2640.00	1290.00	1350.00	2640.00	0.00	0.00	0.00	0.00	ERP 5H PWB
9.65m Casing Intermediate	0.00	2610.00	2610.00	0.00	2610.00	0.00	0.00	0.00	0.00	ERP 5H PWB
8.75m Open Hole	2640.00	8300.00	5660.00	2640.00	7995.99	0.00	0.00	732.96	455.44	ERP 5H PWB
8.5m Open Hole	8300.00	22871.13	14371.13	7995.99	8062.00	722.96	485.44	12692.01	-7450.32	ERP 5H PWB
5.5m Casing Production	0.00	22871.13	22871.13	0.00	8062.00	0.00	0.00	12692.01	-7450.32	ERP 5H PWB

Wellpath Comments						
MD (ft)	X (ft)	Y (ft)	TVD (ft)	Inclination (°)	Azimuth (°)	VS (ft)
8072.03	557.47	546.21	7873.00	48.752	342.063	146.05
8203.18	499.54	692.50	7900.00	63.028	335.403	300.27
8477.55	405.95	672.05	8040.00	79.317	329.708	501.27
8488.79	400.35	681.58	8051.00	80.175	329.435	512.31

- Do not cross (any limiting boundary); red, bold, solid
- Lease boundary, advisory; black, bold, solid
- - - Regulatory boundary, advisory; black, bold, dashed
- - - Geologic boundary, advisory; blue, bold, dashed
- Geologic target boundary, advisory; blue, normal, solid
- Driller's target boundary, advisory; green, normal, solid
- - - Other type of boundary, advisory; green, bold, dashed

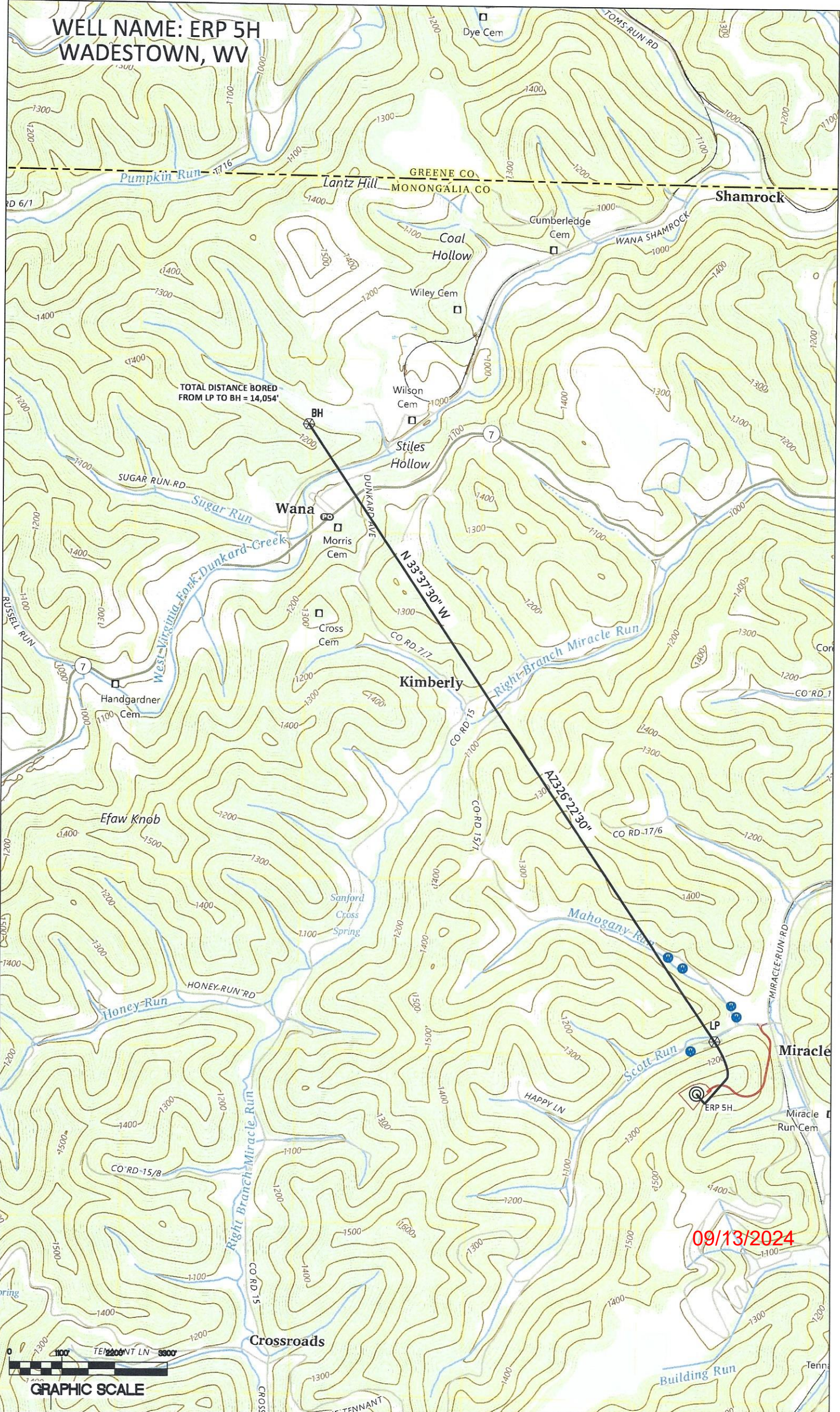


ERP 5H AREA OF REVIEW

API Number	Well Name	Well Number	Operator	Latitude (NAD 83)	Longitude (NAD 83)	TMP	TVD'	Comments
061-70794	NA	NA	NA	39.677573	-80.274049	1-14-19	NA	Pre 1929 farm well
061-70792	NA	NA	NA	39.679735	-80.276336	1-14-19	NA	Pre 1929 farm well
061-00825	EDITH WEAVER	1	EASTERN ASSOCIATED / PEABODY COAL COMPANY	39.693187	-80.288837	1-7-25.1	3159'	Plugged 1/13/1987
061-00983	WILLIAM C CROSS	F2-176	EASTERN ASSOCIATED / PEABODY COAL COMPANY	39.702033	-80.296532	1-7-16	NA	Plugged 11/23/1990
061-30049	NA	NA	NA	39.681471	-80.275891	1-14-26	NA	NA
061-70790	NA	NA	NA	39.680131	-80.274494	1-14-24	NA	Pre 1929 farm well
061-30232	NA	NA	NA	39.67895	-80.274062	1-14-19	NA	NA

061-70679      LM FOSTER      5122      HOPE NATURAL GAS COMPANY      39.674161      -80.270442      1-17-14      NA

WELL NAME: ERP 5H  
WADESTOWN, WV

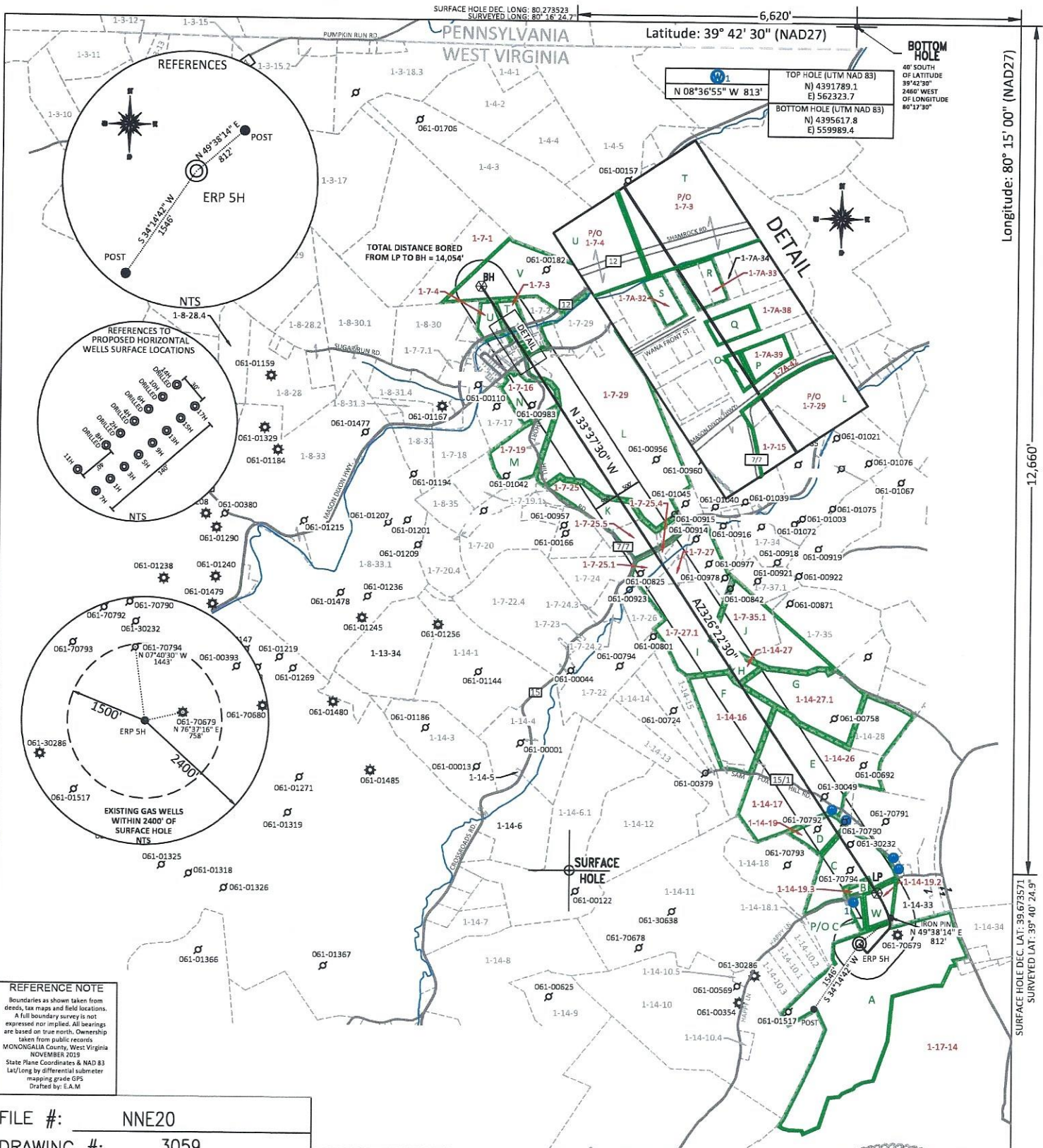


TOTAL DISTANCE BORED  
FROM LP TO BH = 14,054'

09/13/2024



GRAPHIC SCALE

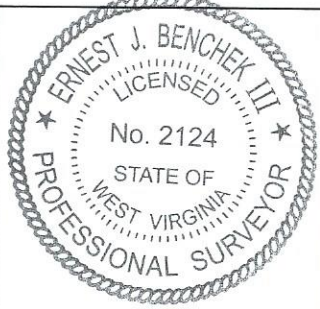


**REFERENCE NOTE**  
 Boundaries as shown taken from deeds, tax maps and field locations. A full boundary survey is not expressed nor implied. All bearings are based on true north. Ownership taken from public records MONONGALIA County, West Virginia NOVEMBER 2013 State Plane Coordinates & NAD 83 Lat/Long by differential submeter mapping grade GPS. Drafted by: E.A.M

FILE #: NNE20  
 DRAWING #: 3059  
 SCALE: PLAT: 1" = 2600'  
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  
**WVDEP**  
**OFFICE OF OIL & GAS**  
**601 57TH STREET**  
**CHARLESTON, WV 25304**

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

WATERSHED: DUNKARD CREEK  
 COUNTY/DISTRICT: MONONGALIA / BATTELLE  
 SURFACE OWNER: Phoenix Energy Resources, LLC  
 OIL & GAS ROYALTY OWNER: Phoenix Energy Resources, LLC, et al.  
 LEASE NUMBERS: \_\_\_\_\_

DATE: AUGUST 27, 2024  
 OPERATOR'S WELL #: ERP 5H  
 API WELL #: 47 61 01960  
 STATE COUNTY PERMIT: \_\_\_\_\_

AS-BUILT ELEVATION: 1,338.6'  
 QUADRANGLE: WADESTOWN  
 ACREAGE: 908.354 +/-  
 ACREAGE: 54.587 +/-

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

ESTIMATED DEPTH: TVD: 8,062 TMD: 22,671  
 WELL OPERATOR: Northeast Natural Energy LLC  
 ADDRESS: 707 VIRGINIA STREET EAST, SUITE 1200  
 CITY: CHARLESTON STATE: WV ZIP CODE: 25301

DESIGNATED AGENT: JOHN ADAMS  
 ADDRESS: 707 VIRGINIA STREET EAST, SUITE 1200  
 CITY: CHARLESTON STATE: WV ZIP CODE: 25301



PROPERTY OWNER INDEX	
1-7-1	CONSOL MINING COMPANY LLC
1-7-3	CONSOLIDATION COAL COMPANY
1-7-4	CONSOLIDATION COAL COMPANY
1-7-15	ALBERTA R MYERS
1-7-16	TRACEY D & ELIZABETH A DAVIS
1-7-19	REBECCA L FRODELIUS & WILLIAM C & TAMELA D CROSS
1-7-25	CLOVIS FAMILY IRREVOCABLE TRUST DATED MAY 23 2011 (LIFE)
1-7-25.1	RANDY & BETH A STILES
1-7-25.4	EDWARD F HOLIPSKY JR
1-7-25.5	JOSHUA V CLOVIS
1-7-27	EDWARD F HOLIPSKY JR
1-7-27.1	EDWARD F HOLIPSKY
1-7-29	CLOVIS FAMILY IRREVOCABLE TRUST DATED MAY 23 2011 (LIFE)
1-7-35.1	EDWARD F HOLIPSKY JR
1-14-16	RUSSELL L & VIRGINIA M TOOTHMAN
1-14-17	RANDELL LEE LANTZ
1-14-19	NORMA WILLIAMS
1-14-19.3	CHAD A SWANSON
1-14-26	RANDELL LEE LANTZ
1-14-27	N/A
1-14-27.1	RUSSELL L & VIRGINIA M TOOTHMAN
1-17-14	ERP FEDERAL MINING COMPLEX LLC
1-7A-32	CURTIS R & CRYSAAN E MOORE
1-7A-33	CURTIS R & CRYSAAN E MOORE
1-7A-38	SHAWN ALLEN TRUMP & ALEEDA MARIE FORD
1-7A-39	WOLFPEN KNOB DEVELOPMENT COMPANY
1-7A-42	WOLFPEN KNOB DEVELOPMENT COMPANY
1-14-19.2	FEDERAL NATIONAL MORTGAGE ASSOCIATION

LEASE INDEX			
A	WV-061-005667-001	N	WV-061-000195-001-JOA
B	WV-061-005702-001	O	WV-061-000195-001-JOA
C	WV-061-005697-001	P	WV-061-000195-001-JOA
D	WV-061-006663-001	Q	WV-061-000195-001-JOA
E	WV-061-005810-037	R	WV-061-000195-001-JOA
F	WV-061-000208-001-JOA	S	WV-061-006199-001
G	WV-061-000208-001-JOA	T	WV-061-000195-001-JOA
H	WV-061-000208-001-JOA	U	WV-061-000195-001-JOA
I	WV-061-006368-001	V	WV-061-000195-001-JOA
J	WV-061-000208-001-JOA	W	WV-061-006722-001
K	WV-061-006384-001		
L	WV-061-004196-001		
M	WV-061-006430-001		

09/13/2024

FILE #: NEE20

DRAWING #: 3059

SCALE: N/A

DATE: AUGUST 27, 2024

OPERATOR'S WELL #: ERP 5H

API WELL #: 47 61 01960  
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  
  
SEP 6 2024  
  
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  
 By: Hollie Medley *Hollie Medley*  
 Its: Regulatory Manager

WW-6A1

Operators Well No. ERP 5H

Tract	Lease Number	Grantor, Lessor, etc.	Grantee, Lessee, etc.	Royalty	Book	Page
A	WV-061-005667-001	Phoenix Energy Resources, LLC	Northeast Natural Energy LLC	12.5% or greater	1710	737
B	WV-061-005702-001	Chad A. Swanson	Northeast Natural Energy LLC	12.5% or greater	1722	696
B	WV-061-000208-001-JOA	EQT Production Company	Northeast Natural Energy LLC	12.5% or greater	1848	729
C	WV-061-005697-001	David Wayne Williams	Northeast Natural Energy LLC	12.5% or greater	1721	479
C	WV-061-005696-001	Roger E. Swanson	Northeast Natural Energy LLC	12.5% or greater	1721	475
C	WV-061-005696-002	Mark Allen Williams	Northeast Natural Energy LLC	12.5% or greater	1721	477
C	WV-061-000208-001-JOA	EQT Production Company	Northeast Natural Energy LLC	12.5% or greater	1848	729
D	WV-061-006663-001	Roger Eugene Swanson	Northeast Natural Energy LLC	12.5% or greater	1848	56
D	WV-061-006663-002	David Wayne Williams	Northeast Natural Energy LLC	12.5% or greater	1851	581
D	WV-061-006663-003	Mark Allen Williams	Northeast Natural Energy LLC	12.5% or greater	1847	190
E	WV-061-005810-037	James Z. Simpson	Northeast Natural Energy LLC	12.5% or greater	1766	200
E	WV-061-005843-009	Timberlyn H.A. Jackson	Northeast Natural Energy LLC	12.5% or greater	1760	788
E	WV-061-005810-007	Randy Lynn Rebold	Northeast Natural Energy LLC	12.5% or greater	1760	670
E	WV-061-005843-004	Davison Family Revocable Trust	Northeast Natural Energy LLC	12.5% or greater	1776	3
E	WV-061-005843-003	Sharon Ellwood McCullough	Northeast Natural Energy LLC	12.5% or greater	1776	1
E	WV-061-005810-008	Linda K. Bradley	Northeast Natural Energy LLC	12.5% or greater	1760	726
E	WV-061-005843-012	Shelley L. Burbidge	Northeast Natural Energy LLC	12.5% or greater	1806	404
E	WV-061-005843-013	Mark E. Main	Northeast Natural Energy LLC	12.5% or greater	1810	720
E	WV-061-005843-006	Roger Leroy Taylor Jr.	Northeast Natural Energy LLC	12.5% or greater	1785	171
E	WV-061-005843-005	Ronald Lee Taylor	Northeast Natural Energy LLC	12.5% or greater	1785	169
E	WV-061-005810-004	Terry Lee Sponaugle Jr.	Northeast Natural Energy LLC	12.5% or greater	1760	664
E	WV-061-005810-012	Amber N. Sponaugle	Northeast Natural Energy LLC	12.5% or greater	1760	678
E	WV-061-005810-013	Carol Jean Sponaugle	Northeast Natural Energy LLC	12.5% or greater	1760	680
E	WV-061-005810-002	Linda Myers	Northeast Natural Energy LLC	12.5% or greater	1760	826
E	WV-061-005810-003	Amy Joe Williams	Northeast Natural Energy LLC	12.5% or greater	1760	828
E	WV-061-005810-046	Isabella Perkins	Northeast Natural Energy LLC	12.5% or greater	1779	37
E	WV-061-005810-045	Aleigha Perkins	Northeast Natural Energy LLC	12.5% or greater	1779	35
E	WV-061-005810-047	Colt Robinette	Northeast Natural Energy LLC	12.5% or greater	1779	39
E	WV-061-005810-001	Sharon Sue Bishop	Northeast Natural Energy LLC	12.5% or greater	1760	824
E	WV-061-005810-005	Ritchie Ronald Wilson	Northeast Natural Energy LLC	12.5% or greater	1760	666
E	WV-061-005843-010	Melinda Sue Russell	Northeast Natural Energy LLC	12.5% or greater	1794	522
E	WV-061-005810-006	Derrick K. Russell	Northeast Natural Energy LLC	12.5% or greater	1760	663
E	WV-061-005810-030	Patricia Joyce Hormell	Northeast Natural Energy LLC	12.5% or greater	1762	728
E	WV-061-005810-011	David Joseph Skedel	Northeast Natural Energy LLC	12.5% or greater	1760	676
E	WV-061-005810-009	Frank D. Stanley	Northeast Natural Energy LLC	12.5% or greater	1760	672
E	WV-061-005810-010	Barbara R. Kizimiski	Northeast Natural Energy LLC	12.5% or greater	1760	674
E	WV-061-005810-042	James S. Michelucci	Northeast Natural Energy LLC	12.5% or greater	1770	627
E	WV-061-005810-023	Montgomery Lee Duvall III	Northeast Natural Energy LLC	12.5% or greater	1762	714
E	WV-061-005843-008	Fred David Duvall	Northeast Natural Energy LLC	12.5% or greater	1793	360

Tract	Lease Number	Grantor, Lessor, etc.	Grantee, Lessee, etc.	Royalty	Book	Page
E	WV-061-005810-029	Patricia Lee Jackson	Northeast Natural Energy LLC	12.5% or greater	1762	726
E	WV-061-005843-002	Darcy L. Kennedy	Northeast Natural Energy LLC	12.5% or greater	1770	7
E	WV-061-005843-001	Cheri A. Cox	Northeast Natural Energy LLC	12.5% or greater	1765	117
E	WV-061-005810-033	Frank Renick	Northeast Natural Energy LLC	12.5% or greater	1763	586
E	WV-061-005810-016	Sandy Wyatt Sine	Northeast Natural Energy LLC	12.5% or greater	1760	694
E	WV-061-005810-017	Sharon Rinderer Conners	Northeast Natural Energy LLC	12.5% or greater	1762	630
E	WV-061-005810-043	Donald R. Kennedy	Northeast Natural Energy LLC	12.5% or greater	1770	629
E	WV-061-005810-041	Myrdith Nelson Kennedy	Northeast Natural Energy LLC	12.5% or greater	1770	625
E	WV-061-005810-026	Cynthia Lou Johnson	Northeast Natural Energy LLC	12.5% or greater	1762	720
E	WV-061-005810-014	Connie Sue Piazza	Northeast Natural Energy LLC	12.5% or greater	1760	690
E	WV-061-005810-024	Debra Darlene Hamstead	Northeast Natural Energy LLC	12.5% or greater	1762	716
E	WV-061-005810-035	Pamela Joyce Richards	Northeast Natural Energy LLC	12.5% or greater	1763	590
E	WV-061-005810-031	Judy Lynn Christenson	Northeast Natural Energy LLC	12.5% or greater	1763	582
E	WV-061-005810-032	Chris L. Breck	Northeast Natural Energy LLC	12.5% or greater	1763	584
E	WV-061-005810-018	Country Roads Minerals LLC	Northeast Natural Energy LLC	12.5% or greater	1762	632
E	WV-061-005810-018	LaCore Agriculture LLC	Northeast Natural Energy LLC	12.5% or greater	1762	632
E	WV-061-005810-021	Barbara June Hodges	Northeast Natural Energy LLC	12.5% or greater	1762	636
E	WV-061-005810-020	James Franklin Kidd	Northeast Natural Energy LLC	12.5% or greater	1763	580
E	WV-061-005810-022	Joan Carol Hathaway	Northeast Natural Energy LLC	12.5% or greater	1762	638
E	WV-061-005810-028	Mary Beth Kennedy	Northeast Natural Energy LLC	12.5% or greater	1762	724
E	WV-061-005810-015	Thomas Guy Kennedy II	Northeast Natural Energy LLC	12.5% or greater	1760	692
E	WV-061-005810-044	Tausha Dawn Kennedy	Northeast Natural Energy LLC	12.5% or greater	1772	406
E	WV-061-005810-040	Twyla Hope Kennedy	Northeast Natural Energy LLC	12.5% or greater	1769	839
E	WV-061-005810-034	Patricia Mae Kennedy	Northeast Natural Energy LLC	12.5% or greater	1763	588
E	WV-061-005810-039	Melvina A. Kennedy III	Northeast Natural Energy LLC	12.5% or greater	1765	109
E	WV-061-005810-019	Country Roads Minerals LLC	Northeast Natural Energy LLC	12.5% or greater	1762	634
E	WV-061-005810-019	LaCore Agriculture LLC	Northeast Natural Energy LLC	12.5% or greater	1762	634
E	WV-061-005843-007	Richard T. Maryonovich	Northeast Natural Energy LLC	12.5% or greater	1785	173
E	WV-061-005810-027	Sheryl Lynn Nestor	Northeast Natural Energy LLC	12.5% or greater	1762	722
E	WV-061-005810-036	Robert Lee Rush	Northeast Natural Energy LLC	12.5% or greater	1766	198
E	WV-061-005810-025	Danny W. Rush	Northeast Natural Energy LLC	12.5% or greater	1762	718
E	WV-061-005810-038	David K. Rush	Northeast Natural Energy LLC	12.5% or greater	1766	202
E	WV-061-005363-054	David G. Owens	Northeast Natural Energy LLC	12.5% or greater	1768	766
E	WV-061-005363-055	Linda Jane Walters	Northeast Natural Energy LLC	12.5% or greater	1768	668
F	WV-061-000208-001-JOA	EQT Production Company	Northeast Natural Energy LLC	12.5% or greater	1848	729
F	WV-061-005805-001	Sherry Jean Harker Patterson	Northeast Natural Energy LLC	12.5% or greater	1754	641
F	WV-061-005883-001	Debra Lynn Lundgren	Northeast Natural Energy LLC	12.5% or greater	1770	77
G	WV-061-000208-001-JOA	EQT Production Company	Northeast Natural Energy LLC	12.5% or greater	1848	729
G	WV-061-000195-001-JOA	CNX Gas Company LLC	Northeast Natural Energy LLC	12.5% or greater	1817	474
H	WV-061-000208-001-JOA	EQT Production Company	Northeast Natural Energy LLC	12.5% or greater	1848	729
H	WV-061-000195-001-JOA	CNX Gas Company LLC	Northeast Natural Energy LLC	12.5% or greater	1817	474

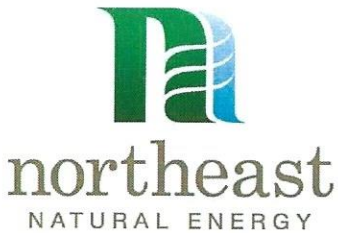
WV Department of  
 Environmental Protection

SEP 6 2024

RECEIVED  
 Office of Oil and Gas

Tract	Lease Number	Grantor, Lessor, etc.	Grantee, Lessee, etc.	Royalty	Book	Page
I	WV-061-006368-001	Douglas E. Bell and Carola A. Bell	Northeast Natural Energy LLC	12.5% or greater	1810	5
J	WV-061-000208-001-JOA	EQT Production Company	Northeast Natural Energy LLC	12.5% or greater	1848	729
J	WV-061-000195-001-JOA	CNX Gas Company LLC	Northeast Natural Energy LLC	12.5% or greater	1817	474
K	WV-061-006384-001	Mary Ann Anderwald	Northeast Natural Energy LLC	12.5% or greater	1810	33
K	WV-061-000195-001-JOA	CNX Gas Company LLC	Northeast Natural Energy LLC	12.5% or greater	1817	474
L	WV-061-004196-001	OPCR-SKS Estate LLC	Northeast Natural Energy LLC	12.5% or greater	1567	782
L	WV-061-004196-002	EBTB Corporation	Northeast Natural Energy LLC	12.5% or greater	1567	790
L	WV-061-004196-003	John D. Lynch	Northeast Natural Energy LLC	12.5% or greater	1567	784
M	WV-061-006430-001	Rebecca L. Frodelius	Northeast Natural Energy LLC	12.5% or greater	1821	425
M	WV-061-006430-002	William C. Cross	Northeast Natural Energy LLC	12.5% or greater	1821	427
M	WV-061-006430-003	William C. Cross, Trustee for the Tamela D. Cross Supplemental Needs Trust	Northeast Natural Energy LLC	12.5% or greater	1825	574
N	WV-061-000195-001-JOA	CNX Gas Company LLC	Northeast Natural Energy LLC	12.5% or greater	1817	474
O	WV-061-000195-001-JOA	CNX Gas Company LLC	Northeast Natural Energy LLC	12.5% or greater	1817	474
P	WV-061-000195-001-JOA	CNX Gas Company LLC	Northeast Natural Energy LLC	12.5% or greater	1817	474
Q	WV-061-000195-001-JOA	CNX Gas Company LLC	Northeast Natural Energy LLC	12.5% or greater	1817	474
R	WV-061-000195-001-JOA	CNX Gas Company LLC	Northeast Natural Energy LLC	12.5% or greater	1817	474
S	WV-061-006199-001	Curtis R. Moore	Northeast Natural Energy LLC	12.5% or greater	1798	169
S	WV-061-006199-002	Crysann E. Moore	Northeast Natural Energy LLC	12.5% or greater	1798	171
T	WV-061-000195-001-JOA	CNX Gas Company LLC	Northeast Natural Energy LLC	12.5% or greater	1817	474
U	WV-061-000195-001-JOA	CNX Gas Company LLC	Northeast Natural Energy LLC	12.5% or greater	1817	474
V	WV-061-000195-001-JOA	CNX Gas Company LLC	Northeast Natural Energy LLC	12.5% or greater	1817	474
W	WV-061-006722-001	William Ludwig and Elizabeth Ludwig	Northeast Natural Energy LLC	12.5% or greater	1856	674

RECEIVED  
Office of Oil and Gas  
SEP 6 2024



September 3, 2024

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

Ch# 10878  
\$ 2500<sup>00</sup>

Re: ERP 5H Modification

Dear Permit Reviewer,

Please find enclosed modification request for Northeast Natural Energy's ("NNE") proposed ERP 5H well, API # 061-01960. NNE requests to slightly modify the curve of the lateral previously permitted. Enclosed with this permit modification request is a check in the amount of \$2,500 for the review fee.

Should you have any questions please contact me at [kbrooks@nne-llc.com](mailto:kbrooks@nne-llc.com).

Sincerely,

*Kristen Brooks*

Kristen Brooks

RECEIVED  
Office of Oil and Gas

SEP 6 2024

WV Department of  
Environmental Protection