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west virginia department of environmental protection

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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, May 10, 2021  
WELL WORK PERMIT  
Horizontal 6A / New Drill

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

Re: Permit approval for ERP 2H  
47-061-01877-00-00

This well work permit is evidence of permission granted to perform the specified well work at the location described on the attached pages and located on the attached plat, subject to the provisions of Chapter 22 of the West Virginia Code of 1931, as amended, and all rules and regulations promulgated thereunder, and to any additional specific conditions and provisions outlined in the pages attached hereto. Notification shall be given by the operator to the Oil and Gas Inspector at least 24 hours prior to the construction of roads, locations, and/or pits for any permitted work. In addition, the well operator shall notify the same inspector 24 hours before any actual well work is commenced and prior to running and cementing casing. Spills or emergency discharges must be promptly reported by the operator to 1-800-642-3074 and to the Oil and Gas Inspector.

Please be advised that form WR-35, Well Operators Report of Well Work is to be submitted to this office within 90 days of completion of permitted well work, as should form WR-34 Discharge Monitoring Report within 30 days of discharge of pits, if applicable. Failure to abide by all statutory and regulatory provisions governing all duties and operations hereunder may result in suspension or revocation of this permit and, in addition, may result in civil and/or criminal penalties being imposed upon the operators.

Per 35 CSR 4-5.2.g this permit will expire in two (2) years from the issue date unless permitted well work is commenced. If there are any questions, please feel free to contact me at (304) 926- 0450.

  
James A. Martin  
Chief

Operator's Well Number: ERP 2H  
Farm Name: PHOENIX ENERGY RESOURCES  
U.S. WELL NUMBER: 47-061-01877-00-00  
Horizontal 6A New Drill  
Date Issued: 5/10/2021

## 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

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1. This proposed activity may require permit coverage from the United States Army Corps of Engineers (USACE). Through this permit, you are hereby being advised to consult with USACE regarding this proposed activity.
2. If the operator encounters an unanticipated void, or an anticipated void at an unanticipated depth, the operator shall notify the inspector within 24 hours. Modifications to the casing program may be necessary to comply with W. Va. Code § 22-6A-5a (12), which requires drilling to a minimum depth of thirty feet below the bottom of the void, and installing a minimum of twenty (20) feet of casing. Under no circumstance should the operator drill more than one hundred (100) feet below the bottom of the void or install less than twenty (20) feet of casing below the bottom of the void.
3. When compacting fills, each lift before compaction shall not be more than 12 inches in height, and the moisture content of the fill material shall be within limits as determined by the Standard Proctor Density test of the actual soils used in specific engineered fill, ASTM D698, Standard Test Method for Laboratory Compaction Characteristics of Soil Using Standard Effort, to achieve 95 % compaction of the optimum density. Each lift shall be tested for compaction, with a minimum of two tests per lift per acre of fill. All test results shall be maintained on site and available for review.
4. Operator shall install signage per § 22-6A-8g (6) (B) at all source water locations included in their approved water management plan within 24 hours of water management plan activation.
5. Oil and gas water supply wells will be registered with the Office of Oil and Gas and all such wells will be constructed and plugged in accordance with the standards of the Bureau for Public Health set forth in its Legislative rule entitled *Water Well Regulations*, 64 C.S.R. 19. Operator is to contact the Bureau of Public Health regarding permit requirements. In lieu of plugging, the operator may transfer the well to the surface owner upon agreement of the parties. All drinking water wells within fifteen hundred feet of the water supply well shall be flow tested by the operator upon request of the drinking well owner prior to operating the water supply well.
6. Pursuant to the requirements pertaining to the sampling of domestic water supply wells/springs the operator shall, no later than thirty (30) days after receipt of analytical data provide a written copy to the Chief and any of the users who may have requested such analyses.
7. 24 hours prior to the initiation of the completion process the operator shall notify the Chief or his designee.
8. During the completion process the operator shall monitor annular pressures and report any anomaly noticed to the chief or his designee immediately.
9. If any explosion or other accident causing loss of life or serious personal injury occurs in or about a well or well work on a well, the well operator or its contractor shall give notice, stating the particulars of the explosion or accident, to the oil and gas inspector and the Chief, within 24 hours of said accident.
10. During the casing and cementing process, in the event cement does not return to the surface, the oil and gas inspector shall be notified within 24 hours.

API Number: \_\_\_\_\_

## PERMIT CONDITIONS

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

05/14/2021

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: 2H 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: 1,350' Elevation, proposed post-construction: 1,338'

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: 8,113

9) Formation at Total Vertical Depth: Marcellus

10) Proposed Total Measured Depth: 21,078' ✓

11) Proposed Horizontal Leg Length: 12,191' ✓

12) Approximate Fresh Water Strata Depths: 50', 1,242' ✓

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

14) Approximate Saltwater Depths: 2,050', 2,500' ✓

15) Approximate Coal Seam Depths: 500', 1,240'

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

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WW-6B  
(04/15)

API NO. 47- 061 - 01877  
 OPERATOR WELL NO. 2H  
 Well Pad Name: ERP

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 ✓	113/GTS
Fresh Water	13-3/8	New	J-55	54.5	1340	1310 ✓	1037/CTS
Coal							
Intermediate	9-5/8	New	J-55	36	2630	2600	900/CTS
Production	5-1/2	New	P-110	20	21078	21048	3330
Tubing	2-7/8	New	P-110	6.5	NA	8000	NA
Liners							

*Super Heavy*  
3-23-21

TYPE	Size (in)	Wellbore Diameter (in)	Wall Thickness (in)	Burst Pressure (psi)	Anticipated Max. Internal Pressure (psi)	Cement Type	Cement Yield (cu. ft./k)
Conductor	24	28	0.375	NA	NA	Type 1	1.18
Fresh Water	13-3/8	17-1/2	0.380	2730	500	Class A	1.19
Coal							
Intermediate	9-5/8	12-3/8	0.395	3520	2800	Class A	1.19
Production	5-1/2	8-3/4	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:				
Sizes:				
Depths Set:				

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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

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

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.

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\*Note: Attach additional sheets as needed.

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## 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.

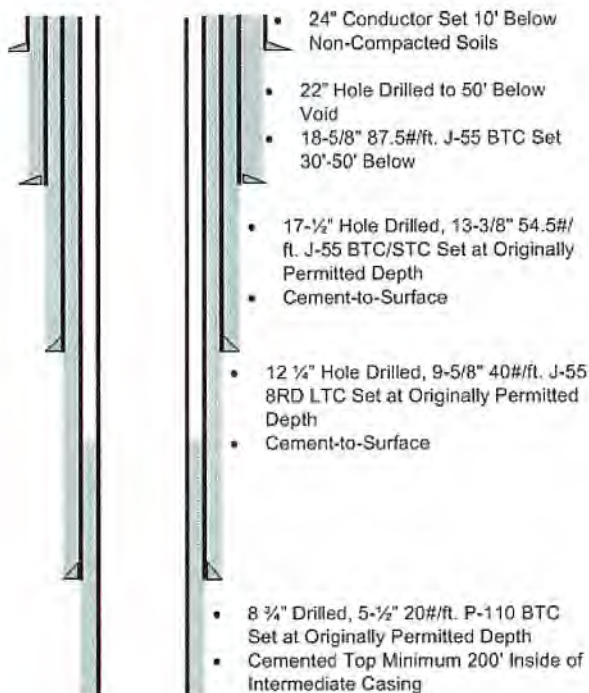
All casings programs submitted to the state incorporate the use of a 24” conductor over the previously used 20” that has long been the industry standard for a typical Marcellus design. The use of 24” conductor casing allows the use of a 22” bit to ream the surface hole, and drill 50’ below the void to 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.

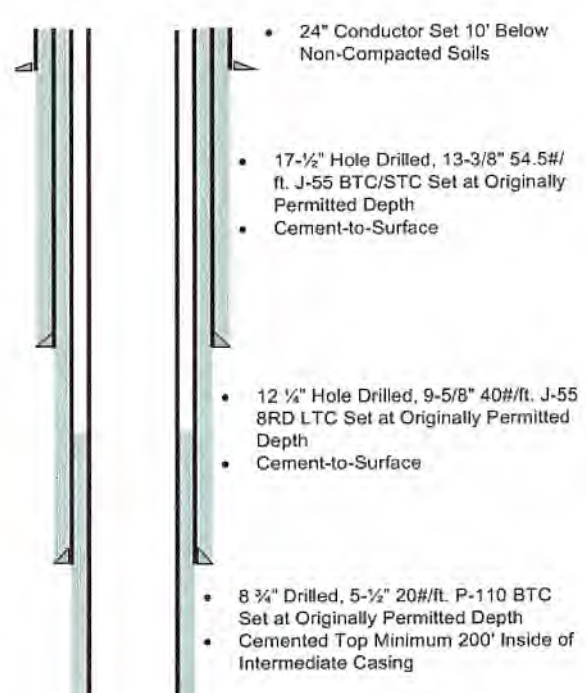
With the use of these string sizes and techniques, the surface and intermediate strings do not need to be altered. After a proper WOC time, the surface section of the well would continue to be drilled with a 17-1/2” bit and the 13-3/8” 54.50#/ft freshwater casing would be set at the originally permitted 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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05/14/2021

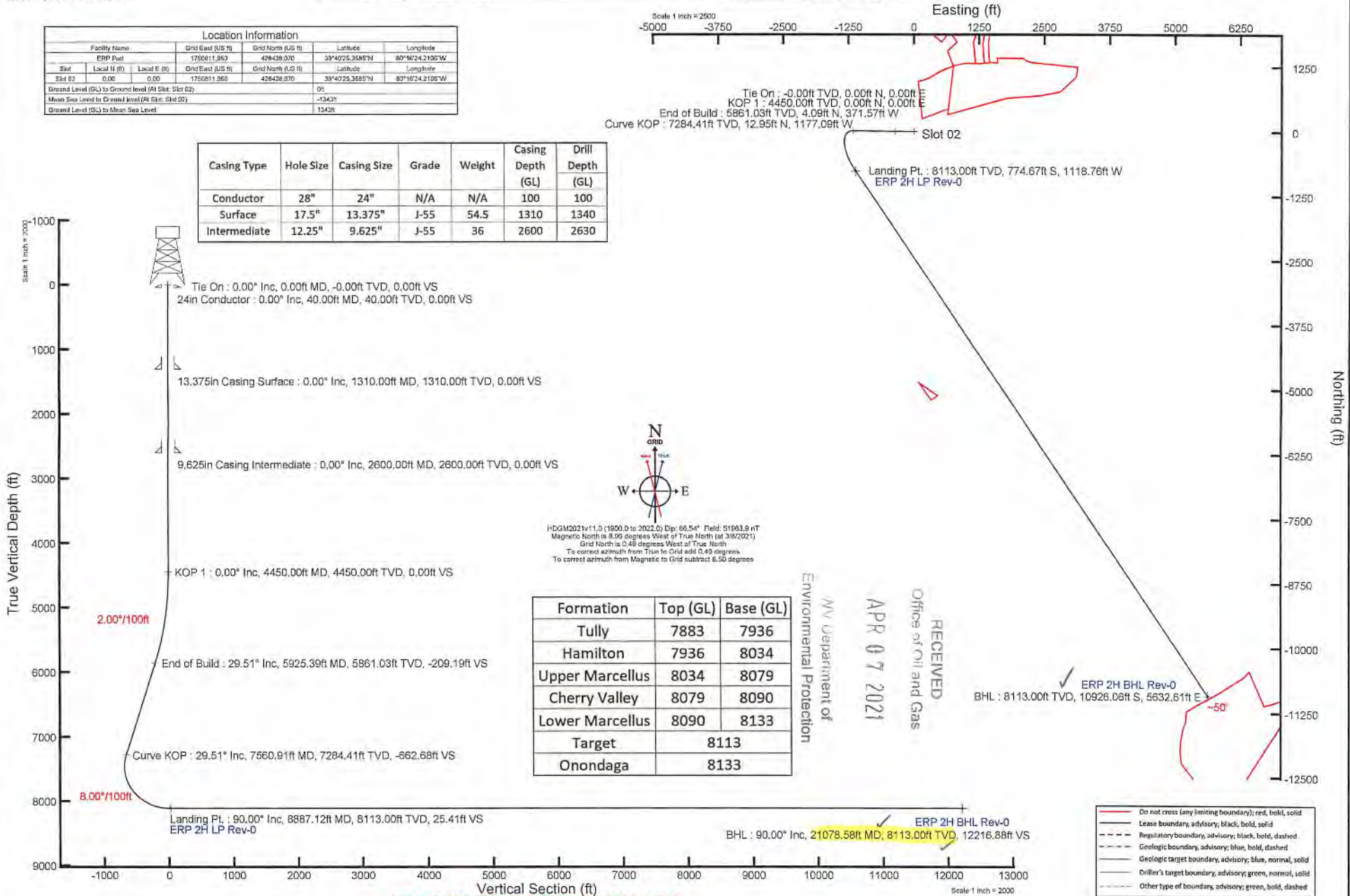
# NORTHEAST NATURAL ENERGY, LLC

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

Slot: Slot 02  
 Well: ERP 2H  
 Wellbore: ERP 2H PWB

Location Information				
Facility Name	Grid East (US Ft)	Grid North (US Ft)	Latitude	Longitude
ERP Pad	175011.960	428438.070	39°40'25.3585"N	80°16'24.2105"W
Slot	Local N (ft)	Local E (ft)	Grid East (US Ft)	Grid North (US Ft)
Slot 02	0.00	0.00	175011.960	428438.070
			39°40'25.3585"N	80°16'24.2105"W
Ground Level (GL) to Ground level (At Slot: Slot 02)				0'
Mean Sea Level to Ground level (At Slot: Slot 02)				-1343'
Ground Level (GL) to Mean Sea Level				1343'

Casing Type	Hole Size	Casing Size	Grade	Weight	Casing Depth (GL)	Drill Depth (GL)
Conductor	28"	24"	N/A	N/A	100	100
Surface	17.5"	13.375"	J-55	54.5	1310	1340
Intermediate	12.25"	9.625"	J-55	36	2600	2630



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- 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

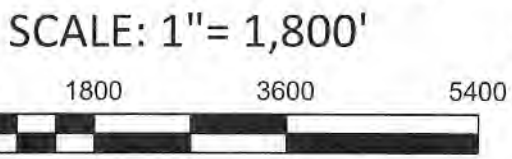
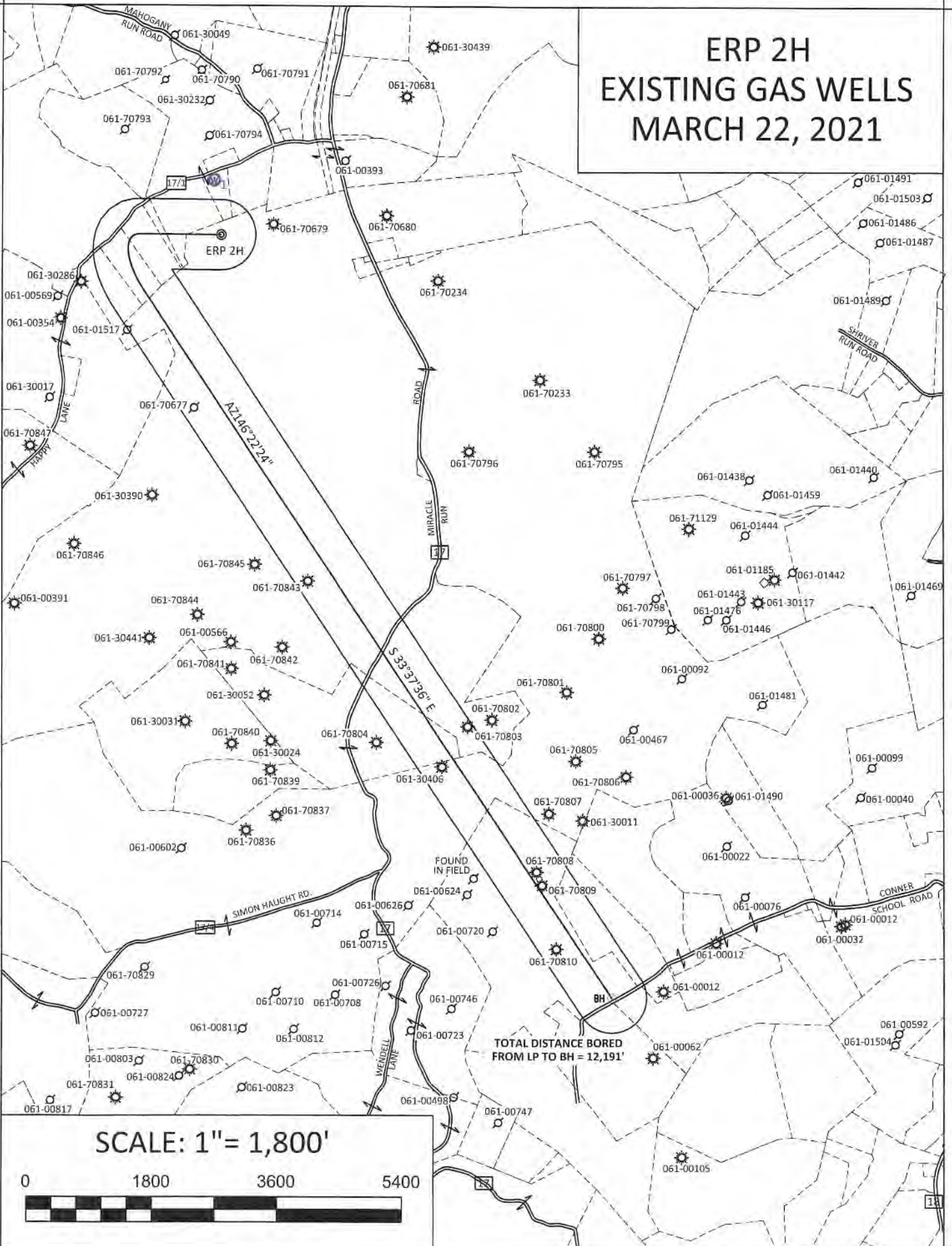


4706101877

## ERP 2H AREA OF REVIEW

API Number	Well Name	Well Number	Operator	Latitude (NAD 83)	Longitude (NAD 83)	TMP	TVD	Comments
061-01517	Consolidation Coal Co	B2-27	Consolidation Coal Co	39.669987	-80.27813	1-17-14	NA	Plugged 7/28/06
061-70677	E L Tennant	3245	Hope Natural Gas Company	39.667049	-80.274571	1-17-14	NA	pre 1929 farm well
061-70843	Ralph Fordyce	1379	Hope Natural Gas Company	39.660071	-80.268566	1-17-14	NA	pre 1929 farm well
061-30406	Enos Tennant	8	South Penn Oil (S. Penn Nat. Gas)	39.652971	-80.261616	1-17-14	3710	NA
061-70810	G T Moore	4	NA	39.645847	-80.255616	4-19-1	NA	pre 1929 farm well
061-70809	G T Moore	NA	NA	39.648314	-80.256555	4-19-1	NA	pre 1929 farm well
061-70808	G T Moore	3	NA	39.64875	-80.256742	4-19-1	NA	pre 1929 farm well
061-70803	Anna Fordyce	1	South Penn Oil (S. Penn Nat. Gas)	39.65441	-80.26012	1-17-16	NA	pre 1929 farm well

# ERP 2H EXISTING GAS WELLS MARCH 22, 2021



TOTAL DISTANCE BORED FROM LP TO BH = 12,191'

WW-9  
(4/16)

API Number 47 - \_\_\_\_\_ - \_\_\_\_\_  
Operator's Well No. ERP 2H

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

FLUIDS/ CUTTINGS DISPOSAL & RECLAMATION PLAN

Operator Name Northeast Natural Energy LLC OP Code 494498281

Watershed (HUC 10) Dunkard Creek Quadrangle Wadestown

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

Will a pit be used? Yes  No

If so, please describe anticipated pit waste: NA

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

Proposed Disposal Method For Treated Pit Wastes:

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

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

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

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

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

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

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

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

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

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

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

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

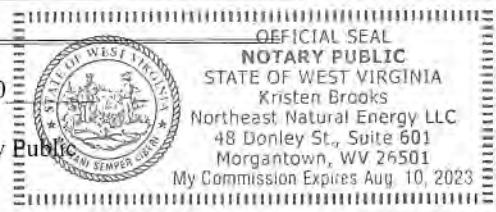
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Subscribed and sworn before me this 23rd day of March, 2021, 20

Kristen Brooks  
Aug. 10, 2023

My commission expires



05/14/2021

Northeast Natural Energy LLC

Proposed Revegetation Treatment: Acres Disturbed 51.23 Prevegetation pH 5-7

Lime 2 Tons/acre or to correct to pH 7

Fertilizer type 19-19-19

Fertilizer amount 300 lbs/acre

Mulch 2 Tons/acre

Seed Mixtures

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

Attach:

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

Photocopied section of involved 7.5' topographic sheet.

Plan Approved by: Bryan Harris

Comments: \_\_\_\_\_

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

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Title: Inspector Date: 3-23-21

Field Reviewed? ( X ) Yes ( ) No

## Attachment A to WW-9

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

**ERP 2H**  
**Site Safety Plan**

March 2021

*Bryan Hawk*  
3-23-21

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05/14/2021



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WELL NAME: ERP 2H  
WADESTOWN, WV



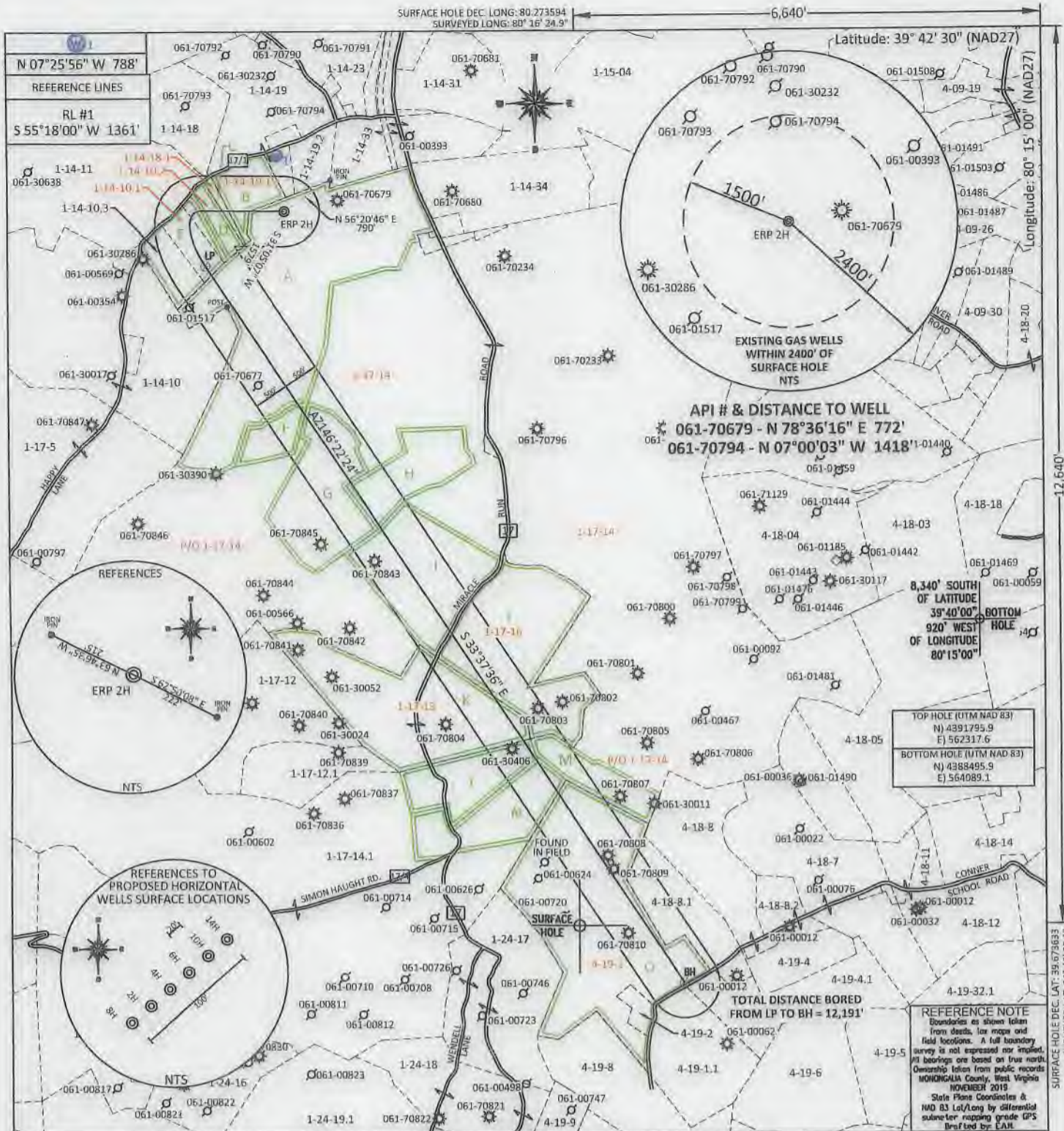
TOTAL DISTANCE BORED  
FROM LP TO BH = 12,191'

05/14/2021



GRAPHIC SCALE





FILE #: NNE20  
 DRAWING #: 2987  
 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: DUNKARD CREEK  
 COUNTY/DISTRICT: MONONGALIA / BATTLE  
 SURFACE OWNER: Phoenix Energy Resources, LLC  
 OIL & GAS ROYALTY OWNER: Phoenix Energy Resources, LLC, et al.  
 LEASE NUMBERS: \_\_\_\_\_

DATE: MARCH 22, 2021  
 OPERATOR'S WELL #: ERP 2H  
 API WELL #: 47 61 010177 464  
 STATE COUNTY PERMIT  
 CURRENT ELEVATION: 1,350'  
 PROPOSED ELEVATION: 1,338.60'

QUADRANGLE: WADESTOWN  
 ACREAGE: 1510.488 +/-  
 ACREAGE: 728.163 +/- **05/14/2021**

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: 8,113' TMD: 21,078'  
 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

PROPERTY OWNER INDEX	
1-17-14	PHOENIX ENERGY RESOURCES, LLC
1-14-10.1	MARK A. & DEBRA C. WILLIAMS
1-14-10.2	DAVID W. & CHERYL A. WILLIAMS
1-14-19.1	PHOENIX ENERGY RESOURCES, LLC
1-17-16	PHOENIX ENERGY RESOURCES, LLC
1-17-13	PHOENIX ENERGY RESOURCES, LLC
4-19-1	SCOTTIE GLEN TRUST & KATHLEEN WILSON
1-14-18.1	NORMA WILLIAMS

LEASE INDEX			
A	WV-061-005667-001	I	WV-061-004351-005
B	WV-061-005667-001	J	WV-061-004514-001
C	WV-061-005697-001	K	WV-061-003767-004
D	WV-061-005697-002	L	WV-061-004376-001
E	WV-061-005329-015	M	WV-061-005168-004
F	WV-061-005754-001	N	WV-061-003767-004
G	WV-061-005754-001	O	WV-061-005607-001
H	WV-061-005168-004		

05/14/2021

FILE #: NEE20

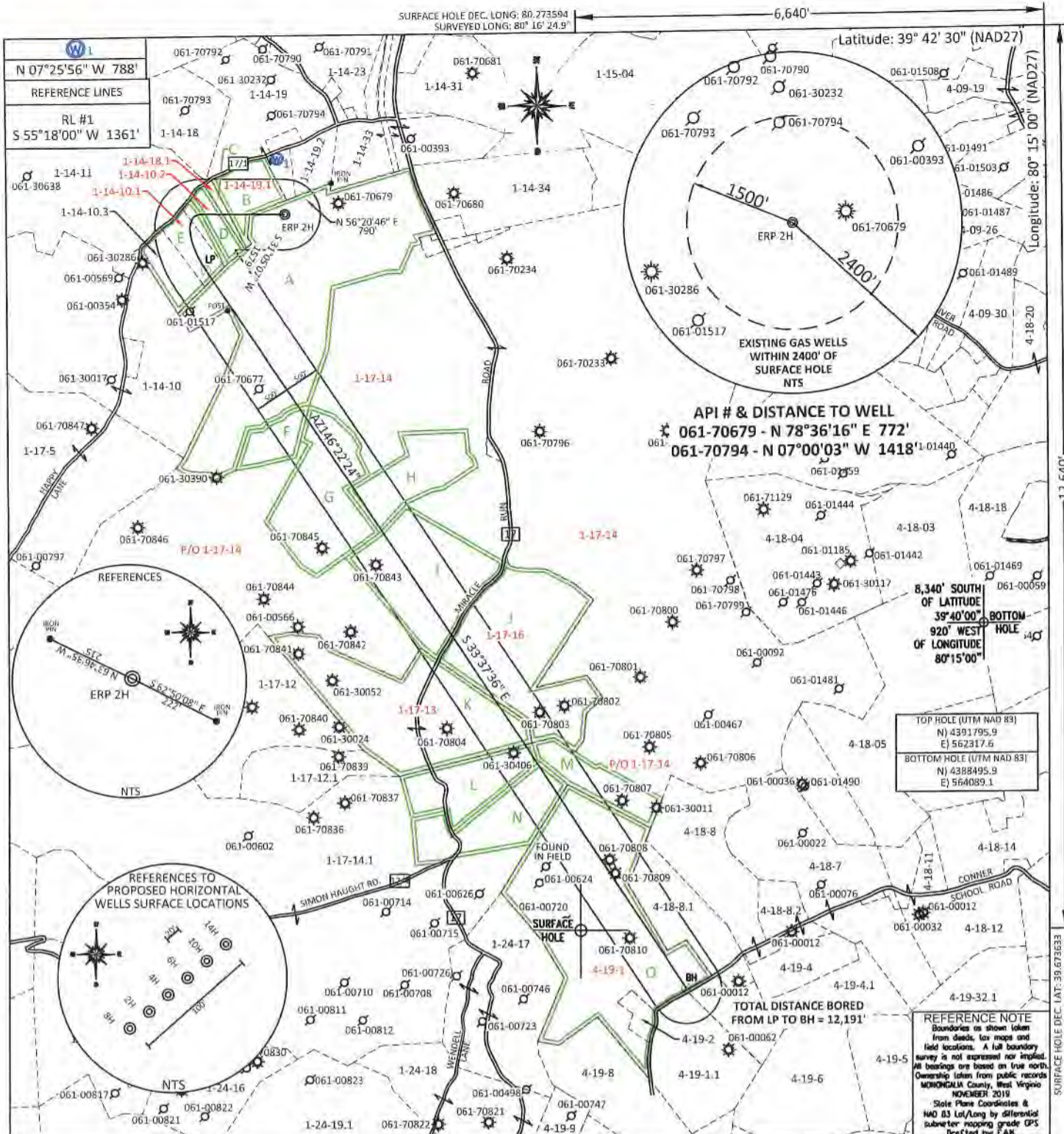
DRAWING #: 2987

SCALE: N/A

DATE: MARCH 22, 2021

OPERATOR'S WELL #: ERP 2H

API WELL #: 47 61 01877 HWA  
STATE COUNTY PERMIT



FILE #: NNE20  
 DRAWING #: 2987  
 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 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 / BATELLE  
 SURFACE OWNER: Phoenix Energy Resources, LLC  
 OIL & GAS ROYALTY OWNER: Phoenix Energy Resources, LLC, et al.  
 LEASE NUMBERS: \_\_\_\_\_

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

TARGET FORMATION: MARCELLUS  
 WELL OPERATOR: NORTHEAST NATURAL ENERGY LLC  
 ADDRESS: 707 VIRGINIA STREET EAST, SUITE 1200  
 CITY: CHARLESTON STATE: WV ZIP CODE: 25301

DATE: MARCH 22, 2021  
 OPERATOR'S WELL #: ERP 2H  
 API WELL #: 47 61 01877 H6A  
 STATE COUNTY PERMIT  
 CURRENT ELEVATION: 1,350'  
 PROPOSED ELEVATION: 1,338.60'

QUADRANGLE: WADESTOWN  
 ACREAGE: 1510.488 +/-  
 ACREAGE: 728.163 +/05/14/2021

ESTIMATED DEPTH: TVD: 8,113' TMD: 21,078'  
 DESIGNATED AGENT: JOHN ADAMS  
 ADDRESS: 707 VIRGINIA STREET EAST, SUITE 1200  
 CITY: CHARLESTON STATE: WV ZIP CODE: 25301

PROPERTY OWNER INDEX	
1-17-14	PHOENIX ENERGY RESOURCES, LLC
1-14-10.1	MARK A. & DEBRA C. WILLIAMS
1-14-10.2	DAVID W. & CHERYL A. WILLIAMS
1-14-19.1	PHOENIX ENERGY RESOURCES, LLC
1-17-16	PHOENIX ENERGY RESOURCES, LLC
1-17-13	PHOENIX ENERGY RESOURCES, LLC
4-19-1	SCOTTIE GLEN TRUST & KATHLEEN WILSON
1-14-18.1	NORMA WILLIAMS

LEASE INDEX			
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E	WV-061-005329-015	M	WV-061-005168-004
F	WV-061-005754-001	N	WV-061-003767-004
G	WV-061-005754-001	O	WV-061-005607-001
H	WV-061-005168-004		

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WV Department of  
Environmental Protection

05/14/2021

FILE #: NEE20

DRAWING #: 2987

SCALE: N/A

DATE: MARCH 22, 2021

OPERATOR'S WELL #: ERP 2H

API WELL #: 47 61 01877 HGA  
STATE COUNTY PERMIT

WW-6A1  
(5/13)

Operator's Well No. ERP 2H

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

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

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

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

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WV Department of  
Environmental Protection

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

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

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

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

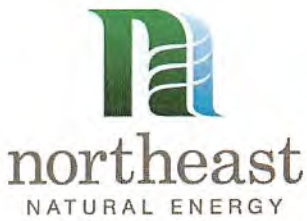
Well Operator: Northeast Natural Energy LLC  
 By: Hollie Medley *Hollie Medley*  
 Its: Regulatory Manager

Tract	Lease Number	Grantor, Lessor, etc.	Grantee, Lessee, etc.	Royalty	Book	Page	
A	WV-061-005667-001	Phoenix Energy Resources, LLC (formerly ERP Mining Complex, LLC)	Northeast Natural Energy LLC	12.5% or Greater	1710	737	
B	WV-061-005667-001	Phoenix Energy Resources, LLC (formerly ERP Mining Complex, LLC)	Northeast Natural Energy LLC	12.5% or Greater	1710	737	
C	WV-061-005697-001	David Wayne Williams	Northeast Natural Energy LLC	12.5% or Greater	1721	479	
	WV-061-005696-001	Roger Eugene Swanson	Northeast Natural Energy LLC	12.5% or Greater	1721	475	
	WV-061-005696-002	Mark Allen Williams	Northeast Natural Energy LLC	12.5% or Greater	1721	477	
D	WV-061-005697-002	David Wayne Williams	Northeast Natural Energy LLC	12.5% or Greater	1721	479	
E	WV-061-005329-015	Patty Amos	Northeast Natural Energy LLC	12.5% or Greater	1643	314	
	WV-061-005329-005	David Bradley Barker	Northeast Natural Energy LLC	12.5% or Greater	1638	644	
	WV-061-005329-001	Nola Jean Park Chisler	Northeast Natural Energy LLC	12.5% or Greater	1635	494	
	WV-061-005329-014	Carl E. Peterson	Northeast Natural Energy LLC	12.5% or Greater	1643	312	
	WV-061-005329-004	Joann P. Golembiewski	Northeast Natural Energy LLC	12.5% or Greater	1690	284	
	WV-061-005365-007	Christine Keene	Northeast Natural Energy LLC	12.5% or Greater	1687	584	
	WV-061-005329-001	Rita Gudz f/k/a Rita Golembiewski	Northeast Natural Energy LLC	12.5% or Greater	1687	582	
	WV-061-005329-011	Veronica Milczewski, f/k/a Vicki Golembiewski	Northeast Natural Energy LLC	12.5% or Greater	1643	306	
	WV-061-005329-018	Phyllis E. Clark	Northeast Natural Energy LLC	12.5% or Greater	1643	320	
	WV-061-005329-004	John A. Hart	Northeast Natural Energy LLC	12.5% or Greater	1637	487	
	WV-061-005365-003	Robert L. Henderson	Northeast Natural Energy LLC	12.5% or Greater	1636	598	
	WV-061-005329-008	Mary L. Weaver, f/k/a Mary L. Hodge	Northeast Natural Energy LLC	12.5% or Greater	1642	303	
	WV-061-005329-023	Karen K. Jennings, f/k/a Karen K. King	Northeast Natural Energy LLC	12.5% or Greater	1688	579	
	WV-061-005365-004	Roger Lee Lemley	Northeast Natural Energy LLC	12.5% or Greater	1637	553	
	WV-061-005365-009	John R. Lemley, a/k/a John Lemley	Northeast Natural Energy LLC	12.5% or Greater	1726	256	
	WV-061-005365-008	Tara L. Dolan a/k/a Tara Lee Dolan	Northeast Natural Energy LLC	12.5% or Greater	1725	812	
	WV-061-005329-006	David G. Owens	Northeast Natural Energy LLC	12.5% or Greater	1638	646	
	WV-061-005329-002	Freddie Carl Park	Northeast Natural Energy LLC	12.5% or Greater	1635	496	
	WV-061-005329-010	Three Rivers Royalty, LLC	Northeast Natural Energy LLC	12.5% or Greater	1675	661	
	WV-061-005329-009	Three Rivers Royalty, LLC	Northeast Natural Energy LLC	12.5% or Greater	1675	668	
	WV-061-005329-003	Jay W. Park	Northeast Natural Energy LLC	12.5% or Greater	1635	498	
	WV-061-005365-001	Charles W. Patterson Jr.	Northeast Natural Energy LLC	12.5% or Greater	1636	594	
	WV-061-005365-006	Agnes M. Ritz	Northeast Natural Energy LLC	12.5% or Greater	1643	38	
	WV-061-005365-002	Charlene Smith	Northeast Natural Energy LLC	12.5% or Greater	1636	596	
	WV-061-005329-007	Linda Jane Walters	Northeast Natural Energy LLC	12.5% or Greater	1638	648	
	WV-061-005329-017	John West	Northeast Natural Energy LLC	12.5% or Greater	1643	318	
	WV-061-005329-013	Janet Brach	Northeast Natural Energy LLC	12.5% or Greater	1643	310	
	WV-061-005329-025	Robert L. Park	Northeast Natural Energy LLC	12.5% or Greater	1698	332	
	WV-061-005329-0278	Deborah L. Plummer	Northeast Natural Energy LLC	12.5% or Greater	1699	423	
	WV-061-005329-026	Patricia Paetzold	Northeast Natural Energy LLC	12.5% or Greater	1698	334	
	WV-061-005329-012	Joyce E. Skeens f/k/a Joyce Ellen Tennant and W. Michael Skeens	Northeast Natural Energy LLC	12.5% or Greater	1643	308	
	WV-061-005329-016	Malinda Ross f/k/a Malinda Sue Tennant	Northeast Natural Energy LLC	12.5% or Greater	1643	316	
F	WV-061-005754-001	Ridgetop Appalachia, LLC	Northeast Natural Energy LLC	12.5% or Greater	1730	25	
G	WV-061-005754-001	Ridgetop Appalachia, LLC	Northeast Natural Energy LLC	12.5% or Greater	1730	25	
H	WV-061-005168-004	Lawrence M. Haught	Northeast Natural Energy LLC	12.5% or Greater	1630	167	
	WV-061-004520-003	Lena R. Hendershot, a/k/a Lena R. Lanehart	Northeast Natural Energy LLC	12.5% or Greater	1609	13	
	WV-061-005168-003	Donna M. Malinski	Northeast Natural Energy LLC	12.5% or Greater	1623	164	
	WV-061-005168-002	Cynthia P. Baumgardner, a/k/a Cynthia P. Sterling	Northeast Natural Energy LLC	12.5% or Greater	1623	162	
	WV-061-005168-001	Janice Gibson	Northeast Natural Energy LLC	12.5% or Greater	1621	569	
	WV-061-005736-001	Joyce Mansfield Clarke	Northeast Natural Energy LLC	12.5% or Greater	1727	217	
	WV-061-005168-005	Reginald K. Tennant	Northeast Natural Energy LLC	12.5% or Greater	1690	242	
	WV-061-004074-002	Robert K. Tennant	Northeast Natural Energy LLC	12.5% or Greater	1563	636	
	I	WV-061-004351-005	Robert H. Fordyce	Northeast Natural Energy LLC	12.5% or Greater	1691	772
		WV-061-004351-004	Randall L. Perry	Northeast Natural Energy LLC	12.5% or Greater	1605	539
WV-061-004351-003		Dennis Patrick Perry	Northeast Natural Energy LLC	12.5% or Greater	1606	36	
J	WV-061-004514-001	Ann Kay Stiles	Northeast Natural Energy LLC	12.5% or Greater	1543	750	
K	WV-061-003767-004	Phoenix Energy Resources, LLC (formerly ERP Mining Complex, LLC)	Northeast Natural Energy LLC	12.5% or Greater	1571	611	
L	WV-061-004376-001	Bonnie Curtis	Northeast Natural Energy LLC	12.5% or Greater	1578	434	
	WV-061-005667-001	Phoenix Energy Resources, LLC (formerly ERP Mining Complex, LLC)	Northeast Natural Energy LLC	12.5% or Greater	1710	737	
	WV-061-003894-004	Mary Elizabeth Masters	Northeast Natural Energy LLC	12.5% or Greater	1555	252	
	WV-061-004376-003	Dollie Sumpter a/k/a Dolly Sumpter	Northeast Natural Energy LLC	12.5% or Greater	1578	438	
	WV-061-004376-004	Judith J. Radcliff, a/k/a Judith Jean Radcliff, a/k/a Judith Radcliff	Northeast Natural Energy LLC	12.5% or Greater	1578	440	
	WV-061-004376-005	Barbara K. Wright, a/k/a Barbara Kay Wilson Wright, f/k/a Barbara K. Wilson	Northeast Natural Energy LLC	12.5% or Greater	1600	250	
	WV-061-004401-017	Linda W. Eisenger, a/k/a Linda Eisinger	Northeast Natural Energy LLC	12.5% or Greater	1611	672	
	WV-061-004401-009	Boyd Hawkins	Northeast Natural Energy LLC	12.5% or Greater	1585	205	
	WV-061-004401-005	Tonya L. Charsin, a/k/a Tonya Chersin, a/k/a Tanya Chersin	Northeast Natural Energy LLC	12.5% or Greater	1581	355	

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Tract	Lease Number	Grantor, Lessor, etc.	Grantee, Lessee, etc.	Royalty	Book	Page
	WV-061-004401-004	Becky L. Hawkins, a/k/a Becky Bortnick Hawkins, f/k/a Becky Bortnick	Northeast Natural Energy LLC	12.5% or Greater	1581	352
	WV-061-004401-015	James Francis Lloyd, Jr., a/k/a James F. Lloyd, Jr.	Northeast Natural Energy LLC	12.5% or Greater	1599	100
	WV-061-004401-014	Robert Lee Lloyd, a/k/a Robert L. Lloyd	Northeast Natural Energy LLC	12.5% or Greater	1599	98
	WV-061-004401-007	John Michael Lloyd, a/k/a John M. Lloyd	Northeast Natural Energy LLC	12.5% or Greater	1585	29
	WV-061-004376-006	Rosemary Bell Tennant, a/k/a Rosemary B. Tennant	Northeast Natural Energy LLC	12.5% or Greater	1607	760
	WV-061-004401-013	Mary Ellen Woodford, f/k/a Mary Ellen Tennant	Northeast Natural Energy LLC	12.5% or Greater	1597	159
	WV-061-004401-008	Kevin Wayne Tennant, a/k/a Kevin Tennant	Northeast Natural Energy LLC	12.5% or Greater	1585	203
	WV-061-004401-010	Mark Bradley Tennant, a/k/a Mark Tennant	Northeast Natural Energy LLC	12.5% or Greater	1586	502
	WV-061-004401-011	Darcie Blalock, a/k/a Darcie Lynn Blalock, a/k/a Darcy Lynn Blalock, f/k/a Darcie Tennant, a/k/a Darcy Lynn Tennant	Northeast Natural Energy LLC	12.5% or Greater	1589	266
	WV-061-004401-012	Michael W. Tennant, a/k/a Michael Tennant	Northeast Natural Energy LLC	12.5% or Greater	1590	341
	WV-061-004376-008	Dawn Renee Stitt	Northeast Natural Energy LLC	12.5% or Greater	1627	276
	WV-061-004376-007	Gary M. Ames	Northeast Natural Energy LLC	12.5% or Greater	1627	274
	WV-061-004401-003	Aldean Haught, a/k/a Aldina Haught	Northeast Natural Energy LLC	12.5% or Greater	1580	104
M	WV-061-005168-004	Lawrence M. Haught	Northeast Natural Energy LLC	12.5% or Greater	1630	167
	WV-061-004520-003	Lena R. Hendershot, a/k/a Lena R. Lanehart	Northeast Natural Energy LLC	12.5% or Greater	1609	13
	WV-061-005168-003	Donna M. Malinski	Northeast Natural Energy LLC	12.5% or Greater	1623	164
	WV-061-005168-002	Cynthia P. Baumgardner, a/k/a Cynthia P. Sterling	Northeast Natural Energy LLC	12.5% or Greater	1623	162
	WV-061-005168-001	Janice Gibson	Northeast Natural Energy LLC	12.5% or Greater	1621	569
	WV-061-005736-001	Joyce Mansfield Clarke	Northeast Natural Energy LLC	12.5% or Greater	1727	217
	WV-061-005168-005	Reginald K. Tennant	Northeast Natural Energy LLC	12.5% or Greater	1690	242
	WV-061-004074-002	Robert K. Tennant	Northeast Natural Energy LLC	12.5% or Greater	1563	636
N	WV-061-003767-004	Phoenix Energy Resources, LLC (formerly ERP Mining Complex, LLC)	Northeast Natural Energy LLC	12.5% or Greater	1564	86
	WV-061-003894-007	Robert Eugene Michael, Sr., a/k/a Robert Eugene Michael	Northeast Natural Energy LLC	12.5% or Greater	1565	584
	WV-061-003894-006	Eileen Ann Lyle	Northeast Natural Energy LLC	12.5% or Greater	1565	201
	WV-061-003894-012	Tabitha Cronin, f/k/a Tabitha Sue Merritt	Northeast Natural Energy LLC	12.5% or Greater	1636	267
	WV-061-003894-009	Evelyn June Michael	Northeast Natural Energy LLC	12.5% or Greater	1563	638
	WV-061-004401-009	Boyd Hawkins	Northeast Natural Energy LLC	12.5% or Greater	1585	205
	WV-061-004401-005	Tonya L. Charsin, a/k/a Tonya Chersin, a/k/a Tanya Chersin	Northeast Natural Energy LLC	12.5% or Greater	1581	355
	WV-061-004401-004	Becky L. Hawkins, a/k/a Becky Bortnick Hawkins, f/k/a Becky Bortnick	Northeast Natural Energy LLC	12.5% or Greater	1581	352
	WV-061-004401-003	Aldean Haught, a/k/a Aldina Haught	Northeast Natural Energy LLC	12.5% or Greater	1580	104
	WV-061-003894-005	Barbara K. Wright, a/k/a Barbara Kay Wilson Wright, f/k/a Barbara K. Wilson	Northeast Natural Energy LLC	12.5% or Greater	1566	142
	WV-061-003894-004	Mary Elizabeth Masters a/k/a Mary E. Masters a/k/a Mary Masters	Northeast Natural Energy LLC	12.5% or Greater	1555	252
	WV-061-003894-003	Bonnie Curtis, a/k/a Bonnie June Curtis	Northeast Natural Energy LLC	12.5% or Greater	1555	250
	WV-061-003894-002	Dollie Sumpter a/k/a Dolly Sumpter	Northeast Natural Energy LLC	12.5% or Greater	1555	248
	WV-061-003894-001	Judith J. Radcliff, a/k/a Judith Jean Radcliff, a/k/a Judith Radcliff	Northeast Natural Energy LLC	12.5% or Greater	1552	357
	WV-061-004401-017	Linda W. Eisenger, a/k/a Linda Eisinger	Northeast Natural Energy LLC	12.5% or Greater	1611	672
	WV-061-004401-015	James Francis Lloyd, Jr., a/k/a James F. Lloyd, Jr.	Northeast Natural Energy LLC	12.5% or Greater	1599	100
	WV-061-004401-014	Robert Lee Lloyd, a/k/a Robert L. Lloyd	Northeast Natural Energy LLC	12.5% or Greater	1599	98
	WV-061-004401-007	John Michael Lloyd, a/k/a John M. Lloyd	Northeast Natural Energy LLC	12.5% or Greater	1585	29
	WV-061-003894-011	Rosemary Bell Tennant, a/k/a Rosemary B. Tennant	Northeast Natural Energy LLC	12.5% or Greater	1607	60
	WV-061-004401-013	Mary Ellen Woodfork, f/k/a Mary Ellen Tennant	Northeast Natural Energy LLC	12.5% or Greater	1597	159
	WV-061-004401-006	Janice L. Tennant	Northeast Natural Energy LLC	12.5% or Greater	1585	27
	WV-061-004401-008	Kevin Wayne Tennant, a/k/a Kevin Tennant	Northeast Natural Energy LLC	12.5% or Greater	1585	203
	WV-061-004401-010	Mark Bradley Tennant, a/k/a Mark Tennant	Northeast Natural Energy LLC	12.5% or Greater	1586	502
	WV-061-004401-011	Darcie Blalock, a/k/a Darcie Lynn Blalock, a/k/a Darcy Lynn Blalock, f/k/a Darcie Tennant, a/k/a Darcy Lynn Tennant	Northeast Natural Energy LLC	12.5% or Greater	1589	266
	WV-061-004401-012	Michael W. Tennant, a/k/a Michael Tennant	Northeast Natural Energy LLC	12.5% or Greater	1590	341
O	WV-061-005607-001	Alan W. Wilson	Northeast Natural Energy LLC	12.5% or Greater	1687	241
	WV-061-005607-002	Kathleen Wilson	Northeast Natural Energy LLC	12.5% or Greater	1687	243
	WV-061-005607-003	Ryan S. Wilson	Northeast Natural Energy LLC	12.5% or Greater	1687	245
	WV-061-005607-004	Michael G. Wilson	Northeast Natural Energy LLC	12.5% or Greater	1687	247

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4706101877

March 26, 2021

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

RE: ERP 2H, 6H, 8H, 10H, 14H

Dear Permit Reviewer:

Please be advised that Northeast Natural Energy LLC has the right to drill, extract and produce the minerals beneath Miracle Run Road, Conner Road, and Happy Lane as identified on the included plat.

Sincerely,

*Charles Dornetto*

Charles Dornetto  
Manager – Land Operations

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APR 07 2021  
WV Department of  
Environmental Protection



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

Date of Notice Certification: 03/31/2021

API No. 47- \_\_\_\_\_  
Operator's Well No. 2H  
Well Pad Name: ERP

**Notice has been given:**

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

State:	<u>West Virginia</u>	UTM NAD 83	Easting:	<u>562317.6</u>
County:	<u>Monongalia</u>		Northing:	<u>4391795.9</u>
District:	<u>Battelle</u>	Public Road Access:	<u>Route 17/Miracle Run Rd</u>	
Quadrangle:	<u>Wadestown</u>	Generally used farm name:	<u>ERP</u>	
Watershed:	<u>Dunkard Creek</u>			

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

<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 style="padding-left: 100px;"><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><b>OOG OFFICE USE ONLY</b></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>
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**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 notified 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.

Office of Oil and Gas

APR 07 2021

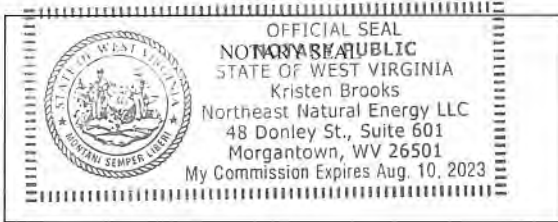
05/14/2021

Certification of Notice is hereby given:

*Hollie M Medley*

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

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



Subscribed and sworn before me this 1<sup>st</sup> day of April, 2021

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 [deprivacyofficer@wv.gov](mailto:deprivacyofficer@wv.gov).

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WV Department of  
Environmental Protection

WW-6A  
(9-13)

4706101877  
API NO. 47- \_\_\_\_\_  
OPERATOR WELL NO. 2H \_\_\_\_\_  
Well Pad Name: ERP \_\_\_\_\_

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

**Notice Time Requirement:** notice shall be provided no later than the **filing date of permit application.**

**Date of Notice:** 03/24/2021    **Date Permit Application Filed:** 04/03/2021

**Notice of:**

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

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

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

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

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

SURFACE OWNER(s)  
Name: Phoenix Energy Resources, LLC  
Address: 863 Quail Valley Drive  
Princeton, WV 24740

Name: Norma Williams  
Address: 222 Happy Lane  
Fairview, WV 26570

SURFACE OWNER(s) (Road and/or Other Disturbance)  
Name: Glenn N & Orpha J Reed  
Address: 911 Miracle Run Rd  
Fairview, WV 26570

Name: Pennsylvania Lines LLC  
Address: 1200 Peachtree St. NE  
Atlanta, GA 30309

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

COAL OWNER OR LESSEE  
Name: Phoenix Energy Resources, LLC  
Address: 863 Quail Valley Drive  
Princeton, WV 24740

COAL OPERATOR  
Name: \_\_\_\_\_  
Address: \_\_\_\_\_

SURFACE OWNER OF WATER WELL AND/OR WATER PURVEYOR(s)  
Name: Chad A. Swanson  
Address: 319 Happy Lane  
Fairview, WV 26570

OPERATOR OF ANY NATURAL GAS STORAGE FIELD  
Name: \_\_\_\_\_  
Address: \_\_\_\_\_

\*Please attach additional forms if necessary

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WV Department of  
Environmental Protection

05/14/2021

**Notice is hereby given:**

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

**This Notice Shall Include:**

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

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

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MAY 07 2021

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.

WV Department of  
Environmental Protection

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 57<sup>th</sup> Street, SE, Charleston, WV 25304 (304-926-0450) or by visiting [www.dep.wv.gov/oil-and-gas/pages/default.aspx](http://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

05/14/2021

WW-6A  
(8-13)

API NO. 47-\_\_\_\_\_-\_\_\_\_\_  
OPERATOR WELL NO. 2H\_\_\_\_\_  
Well Pad Name: ERP\_\_\_\_\_

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 57<sup>th</sup> St. SE  
Charleston, WV 25304  
(304) 926-0450

Office of Oil and Gas

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WV Department of  
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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.**

05/14/2021

**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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Environmental Protection

WW-6A  
(8-13)

API NO. 47- \_\_\_\_\_ - \_\_\_\_\_  
OPERATOR WELL NO. 2H \_\_\_\_\_  
Well Pad Name: ERP \_\_\_\_\_

**Notice is hereby given by:**

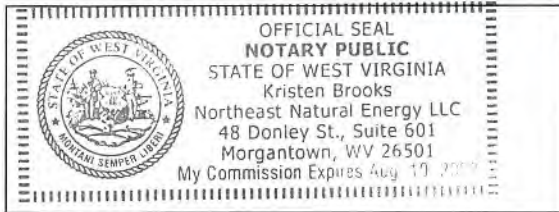
Well Operator: Northeast Natural Energy LLC  
Telephone: 304-414-7060  
Email: hmedley@nne-llc.com

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

**Oil and Gas Privacy Notice:**

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

*Holl: medley*



Subscribed and sworn before me this 23rd day of March, 2021

Kristen Brooks Notary Public

My Commission Expires Aug. 10, 2023

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Environmental Protection

05/14/2021

**ERP OVERVIEW**  
**NOV 25, 2020**  
**SCALE - (1"=650')**





WW-6A3  
(1/12)

Operator Well No. ERP

**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:** 06/11/2020      **Date of Planned Entry:** 06/18/2020

**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: Phoenix Energy Resources, LLC ✓  
Address: 863 Quail Valley Drive  
Princeton, WV 24740  
Name: \_\_\_\_\_  
Address: \_\_\_\_\_  
Name: \_\_\_\_\_  
Address: \_\_\_\_\_

COAL OWNER OR LESSEE  
Name: Phoenix Energy Resources, LLC ✓  
Address: 863 Quail Valley Drive  
Princeton, WV 24740

MINERAL OWNER(s)  
Name: Phoenix Energy Resources, LLC ✓  
Address: 863 Quail Valley Drive  
Princeton, WV 24740

\*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>39.673595, -80.273483</u>
County: <u>Monongalia</u>	Public Road Access: <u>Happy Lane/CR 17</u>
District: <u>Batelle</u>	Watershed: <u>Dunkard Creek</u>
Quadrangle: <u>Wadestown</u>	Generally used farm name: <u>ERP</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 57<sup>th</sup> 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](http://www.dep.wv.gov/oil-and-gas/pages/default.aspx).

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**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

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 [depprivacyofficer@wv.gov](mailto:depprivacyofficer@wv.gov).

05/14/2021

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: 06/11/2020 Date of Planned Entry: 06/18/2020

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: Norma Williams

Address: 222 Happy Lane  
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>39.673595, -80.273483</u>
County: <u>Monongalia</u>	Public Road Access: <u>Happy Lane/CR 17</u>
District: <u>Balelle</u>	Watershed: <u>Dunkard Creek</u>
Quadrangle: <u>Wadeslown</u>	Generally used farm name: <u>ERP</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 57<sup>th</sup> 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](http://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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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 [depprivacyofficer@wv.gov](mailto:depprivacyofficer@wv.gov).

WW-6A3  
(1/12)

Operator Well No. ERP

**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:** 06/11/2020      **Date of Planned Entry:** 06/18/2020

**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: Glenn N & Orpha J Reed  
 Address: 911 Miracle Run 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>39.673595, -80.273483</u>
County: <u>Monongalia</u>	Public Road Access: <u>Happy Lane/CR 17</u>
District: <u>Batelle</u>	Watershed: <u>Dunkard Creek</u>
Quadrangle: <u>Wadestown</u>	Generally used farm name: <u>ERP</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 57<sup>th</sup> 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](http://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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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 [depprivacyofficer@wv.gov](mailto:depprivacyofficer@wv.gov).

WW-6A3  
(1/12)Operator Well No. ERP

**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:** 05/11/2020      **Date of Planned Entry:** 06/18/2020

**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: \_\_\_\_\_

Address: \_\_\_\_\_

Name: \_\_\_\_\_

Address: \_\_\_\_\_

Name: \_\_\_\_\_

Address: \_\_\_\_\_

COAL OWNER OR LESSEE

Name: \_\_\_\_\_

Address: \_\_\_\_\_

MINERAL OWNER(s)

Name: XTO Energy Inc.

Address: 22777 Springwoods Village Parkway

Spring, TX 77389

\*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: Batelle

Quadrangle: Wadestown

Approx. Latitude & Longitude: 39.673595, -80.273483

Public Road Access: Happy Lane/CR 17

Watershed: Dunkard Creek

Generally used farm name: ERP

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 57<sup>th</sup> 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](http://www.dep.wv.gov/oil-and-gas/pages/default.aspx).

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**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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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 [depprivacyofficer@wv.gov](mailto:depprivacyofficer@wv.gov).

05/14/2021

**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:** 03/24/2021      **Date Permit Application Filed:** 04/03/2021

**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: See attached      Name: \_\_\_\_\_  
Address: \_\_\_\_\_      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:	<u>West Virginia</u>	UTM NAD 83	Easting:	<u>562317.6</u>
County:	<u>Monongalia</u>		Northing:	<u>4391795.9</u>
District:	<u>Battelle</u>	Public Road Access:	<u>Route 17</u>	
Quadrangle:	<u>Wadestown</u>	Generally used farm name:	<u>ERP</u>	
Watershed:	<u>Dunkard Creek</u>			

**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 57<sup>th</sup> Street, SE, Charleston, WV 25304 (304-926-0450) or by visiting [www.dep.wv.gov/oil-and-gas/pages/default.aspx](http://www.dep.wv.gov/oil-and-gas/pages/default.aspx).

**Notice is hereby given by:**

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

Authorized Representative: Hollie Medley, Regulatory Manager **RECEIVED**  
Address: 48 Donley St, Suite 601 *Office of Oil and Gas*  
Morgantown, WV 26501  
Telephone: 304-241-5752 **APR 07 2021**  
Email: \_\_\_\_\_  
Facsimile: \_\_\_\_\_  
*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 [depprivacyofficer@wv.gov](mailto:depprivacyofficer@wv.gov).

4706101877

SURFACE OWNERS

Phoenix Energy Resources, LLC c/o John Hale  
863 Quail Valley Drive  
Princeton, WV 24740

Norma Williams  
222 Happy Lane  
Fairview, WV 26570

Glenn N & Orpha J Reed  
911 Miracle Run Rd  
Fairview, WV 26570

Pennsylvania Lines LLC  
1200 Peachtree St NE  
Atlanta, GA 30309

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05/14/2021

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: 03/24/2021 Date Permit Application Filed: 04/03/2021

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: See attached Name: \_\_\_\_\_  
 Address: \_\_\_\_\_ Address: \_\_\_\_\_

Notice is hereby given:

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

State: <u>West Virginia</u>	UTM NAD 83	Easting: <u>562317.6</u>
County: <u>Monongalia</u>		Northing: <u>4391795.9</u>
District: <u>Battelle</u>	Public Road Access: <u>Route 17</u>	
Quadrangle: <u>Wadestown</u>	Generally used farm name: <u>ERP</u>	
Watershed: <u>Dunkard Creek</u>		

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 57<sup>th</sup> Street, SE, Charleston, WV 25304 (304-926-0450) or by visiting [www.dep.wv.gov/oil-and-gas/pages/default.aspx](http://www.dep.wv.gov/oil-and-gas/pages/default.aspx).

Well Operator: <u>Northeast Natural Energy LLC</u>	Address: <u>707 Virginia St. E., Suite 1200</u>
Telephone: <u>304-414-7060</u>	<u>Charleston, WV 25301</u>
Email: <u>hmedley@nne-llc.com</u>	Facsimile: <u>304-414-7061</u>

Oil and Gas Privacy Notice:

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WV-GAS

SURFACE OWNERS

Phoenix Energy Resources, LLC c/o John Hale  
863 Quail Valley Drive  
Princeton, WV 24740

Norma Williams  
222 Happy Lane  
Fairview, WV 26570

Glenn N & Orpha J Reed  
911 Miracle Run Rd  
Fairview, WV 26570

Pennsylvania Lines LLC  
1200 Peachtree St NE  
Atlanta, GA 30309

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Environmental Protection

05/14/2021





WEST VIRGINIA DEPARTMENT OF TRANSPORTATION

**Division of Highways**

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

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

**December 4, 2020**

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

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

Subject: DOH Permit for the ERP Pad, Monongalia County  
ERP 2H Well Site ✓

Dear Mr. Martin,

This well site will be accessed from a DOH permit #04-2020-0705 which has been applied for by Northeast Natural Energy for access to the State Road for a well site located off Monongalia County Route 17/1 SLS at MP 2.032.

This operator is in compliance with §22-6A-20 of the WV Code. Operator has signed a STATEWIDE OIL AND GAS ROAD MAINTENANCE BONDING AGREEMENT and provided the required Bond. This operator is currently in compliance with the DOH OIL AND GAS POLICY dated October 1, 2018.

Very Truly Yours,

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

Cc: Hollie Medley  
Northeast Natural Energy  
CH, OM, D-4  
File

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WV Department of  
Environmental Protection

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## 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
Cl-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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# ERP WELL PAD BATTELLE DISTRICT, MONONGALIA COUNTY, WV SEPTEMBER 2020



TWO WORKING DAYS PRIOR TO EXCAVATION, THE CONTRACTOR MUST CONTACT THE WV ONE CALL SYSTEM, INC., 1-800-245-4848 (WV ONE CALL TICKET#2005785656 )

OWNER



**SHEET INDEX**

1. TITLE SHEET
- 2-3. EVACUATION ROUTE/PREVAILING WIND
4. E&S CONTROL LAYOUT OVERVIEW
- 5-8. E&S CONTROL LAYOUT
9. E&S CONTROL AND SITE PLAN OVERVIEW
- 10-13. E&S CONTROL AND SITE PLAN
14. WELL PAD AND EQM AREA CROSS SECTIONS
15. UNDER DRAIN PROFILES
16. WELL PAD ACCESS ROAD, PRODUCTION AND AST PADS PROFILES
- 17-22. WELL PAD ACCESS ROAD CROSS-SECTIONS
- 23-27. PRODUCTION AND AST PADS ACCESS ROAD CROSS-SECTIONS
- 28-32. DETAILS
33. RECLAMATION PLAN OVERVIEW
- 34-37. RECLAMATION PLAN

TOTAL LIMITS OF DISTURBANCE: 51.23 AC.  
ACCESS ROAD LIMITS OF DISTURBANCE: 21.53 AC.  
WELL PAD LIMITS OF DISTURBANCE: 8.22 AC.  
PRODUCTION AND AST PADS OF DISTURBANCE: 21.48 AC.

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

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Office of Oil and Gas

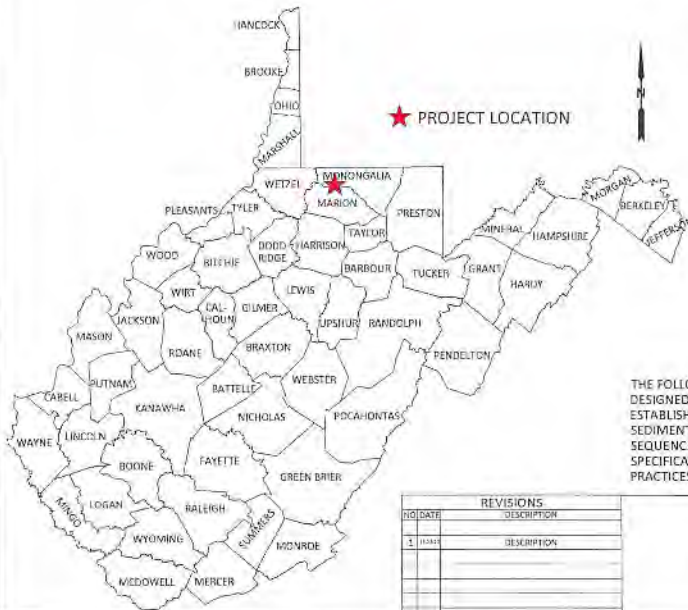
APR 07 2021

WV Department of  
Environmental Protection



ANDREW BENCHEK  
P.E.

**PROPERTY OWNER PROJECT BOUNDARY ACREAGE**  
GLENN N. REED & ORPHA J. REED (TAX MAP AND PARCEL 01-34-35): 5.09 AC.  
PHOENIX ENERGY RESOURCES, LLC (TAX MAP AND PARCEL 01-17-14): 42.79 AC.  
PHOENIX ENERGY RESOURCES, LLC (TAX MAP AND PARCEL 01-14-25-31): 1.14 AC.  
NORVA WILLIAMS (TAX MAP AND PARCEL 01-34-39): 0.81 AC.



**COORDINATES**

SITE ENTRANCE  
(NAD 83)  
LAT: 39.677327°  
LON: 80.269099°  
LAT: 39° 40' 38.38"  
LON: 80° 16' 08.76"  
(NAD 27)  
LAT: 39° 40' 38.08"  
LON: 80° 16' 09.48"

CENTER OF WELL PAD  
(NAD 83)  
LAT: 39.673631°  
LON: 80.273426°  
LAT: 39° 40' 25.07"  
LON: 80° 16' 24.33"  
(NAD 27)  
LAT: 39° 40' 24.78"  
LON: 80° 16' 25.06"



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

REVISIONS	
NO.	DATE
1	11/25/2020

**TITLE SHEET**  
ERP WELL PAD  
BATTELLE DISTRICT, MONONGALIA COUNTY, WV

**SHEET**  
1  
OF  
37

1"=1000'  
0' 1000' 2000' 3000'

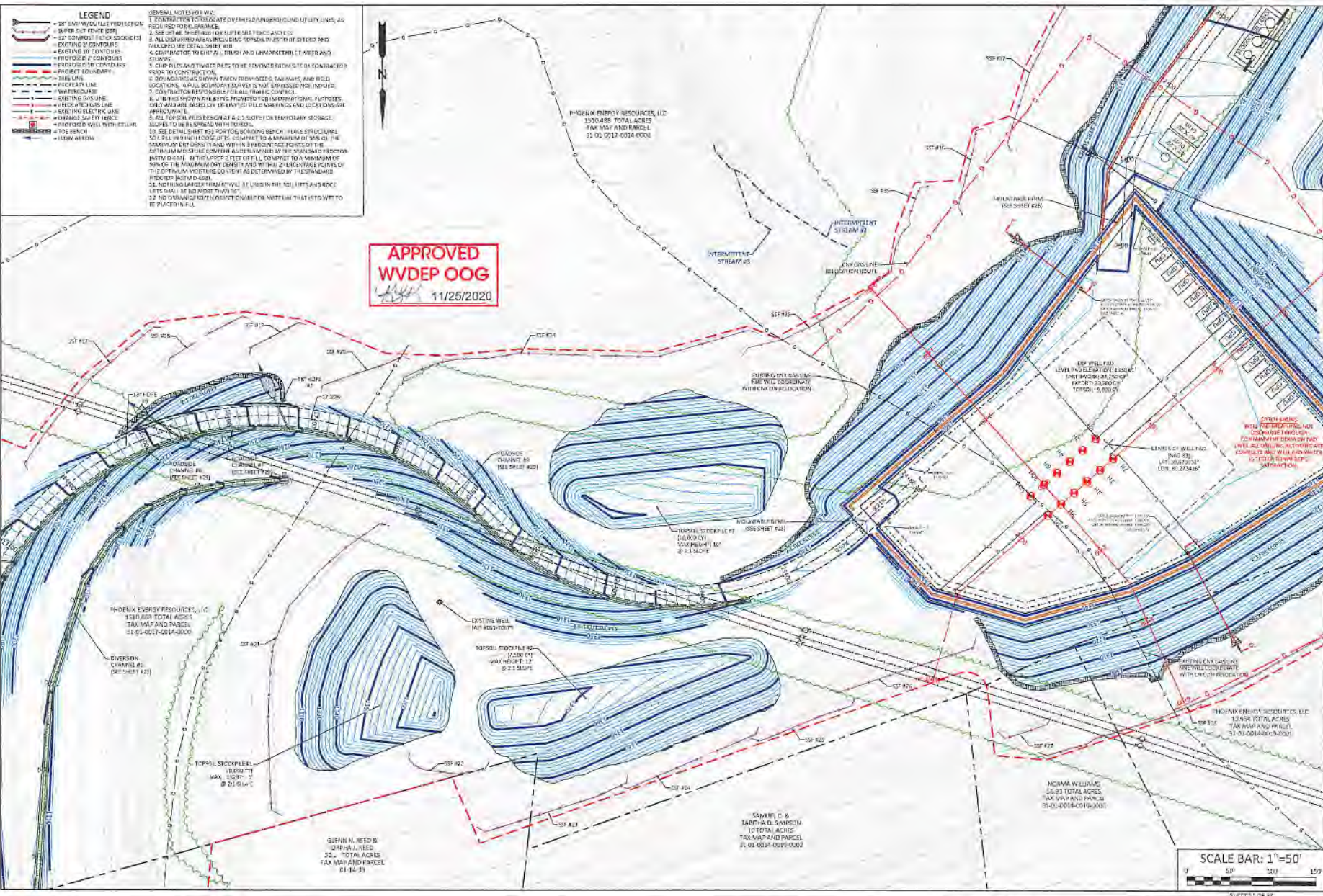
**LEGEND**

- 1" = 50' WYDEP PROTECTION BUFFER OUT FENCE (EOP)
- 2" = 50' CORNERED FENCE (COP)
- EXISTING 2" CONTROLS
- EXISTING 2" CONTROLS
- PROPOSED 2" CONTROLS
- PROPOSED 2" CONTROLS
- PROPERTY BOUNDARY
- THIS LINE
- PROPERTY LINE
- WATERCOURSE
- EXISTING GAS LINE
- PROPOSED GAS LINE
- EXISTING ELECTRIC LINE
- PROPOSED ELECTRIC LINE
- PROPOSED WELL WITH FILL
- TOE BENCH
- LOW ARROW

**GENERAL NOTES FOR WYDEP:**

1. CONTROLS ARE TO BE LOCATED OVERHEAD AND UNDERGROUND UTILITY LINES, AS REQUIRED FOR ALL SIZES.
2. SEE UP-TOE SHEET FOR WYDEP SHEET FENCE AND FENCE.
3. ALL WYDEP AREAS INCLUDING TOPOLYESTER FENCE AND FENCED BY DETAIL SHEET ARE TO BE MAINTAINED AT ALL TIMES.
4. CONTRACTORS TO CUT A, B, F, H, I AND UNMAINTAINABLE WATER AND FENCE.
5. CHIP PILES AND OTHER DEBRIS TO BE REMOVED FROM SITE BY CONTRACTOR PRIOR TO CONSTRUCTION.
6. BOUNDARIES AS SHOWN TAKEN FROM ODES, TAX MAPS, AND FIELD LOCATIONS, IF ALL BOUNDARY SURVEYS TO BE SUBMITTED FOR APPROVAL.
7. CONTRACTOR RESPONSIBLE FOR ALL FENCE CONTRACTS.
8. UTILITIES SHOWN ARE BEING PROVIDED FOR INFORMATION PURPOSES ONLY AND ARE SUBJECT TO UNEXPECTED FIELD CONDITIONS AND OCCASIONAL APPROVALS.
9. ALL TOPOLYESTER FENCE AND 4" X 4" SUPPLY OR TENSILE MESH STORAGE SLIPES TO BE SPREAD WITH TORSION.
10. SEE DETAIL SHEET FOR PORTULACA BENCH, FENCE STRUCTURE, SOIL PILING IN HIGH CROSSLIGHT CONTACT TO A MAXIMUM OF 30% OF THE MAXIMUM MOISTURE CONTENT ALLOWED BY THE SOIL CLASSIFICATION (ASTM D-2922) IN THE LAYER 2 FEET OR LESS, COMPACT TO A MAXIMUM OF 90% OF THE MAXIMUM DRY DENSITY AND WITHIN 2" TOLERANCE LIMITS OF THE OPTIMUM MOISTURE CONTENT, AS DETERMINED BY THE STANDARD PROCTOR (ASTM D-1557).
11. NOTHING LARGER THAN 1/4" SHALL BE USED IN THE SOILS AND ROCK LOTS SHALL BE NO MORE THAN 10%.
12. NOT TO BE CONSIDERED AS A BASIS FOR MATERIAL THAT IS TO BE PLACED IN-FILL.

**APPROVED WYDEP OOG**  
 11/25/2020



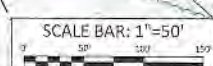
**BOARD, BENCHER AND ASSOC., INC.**  
 Engineering, Surveying, Construction, and Mining Services  
 Southampton, PA 18517 Phone: 717-745-7455

**E&S CONTROL AND SITE PLAN**

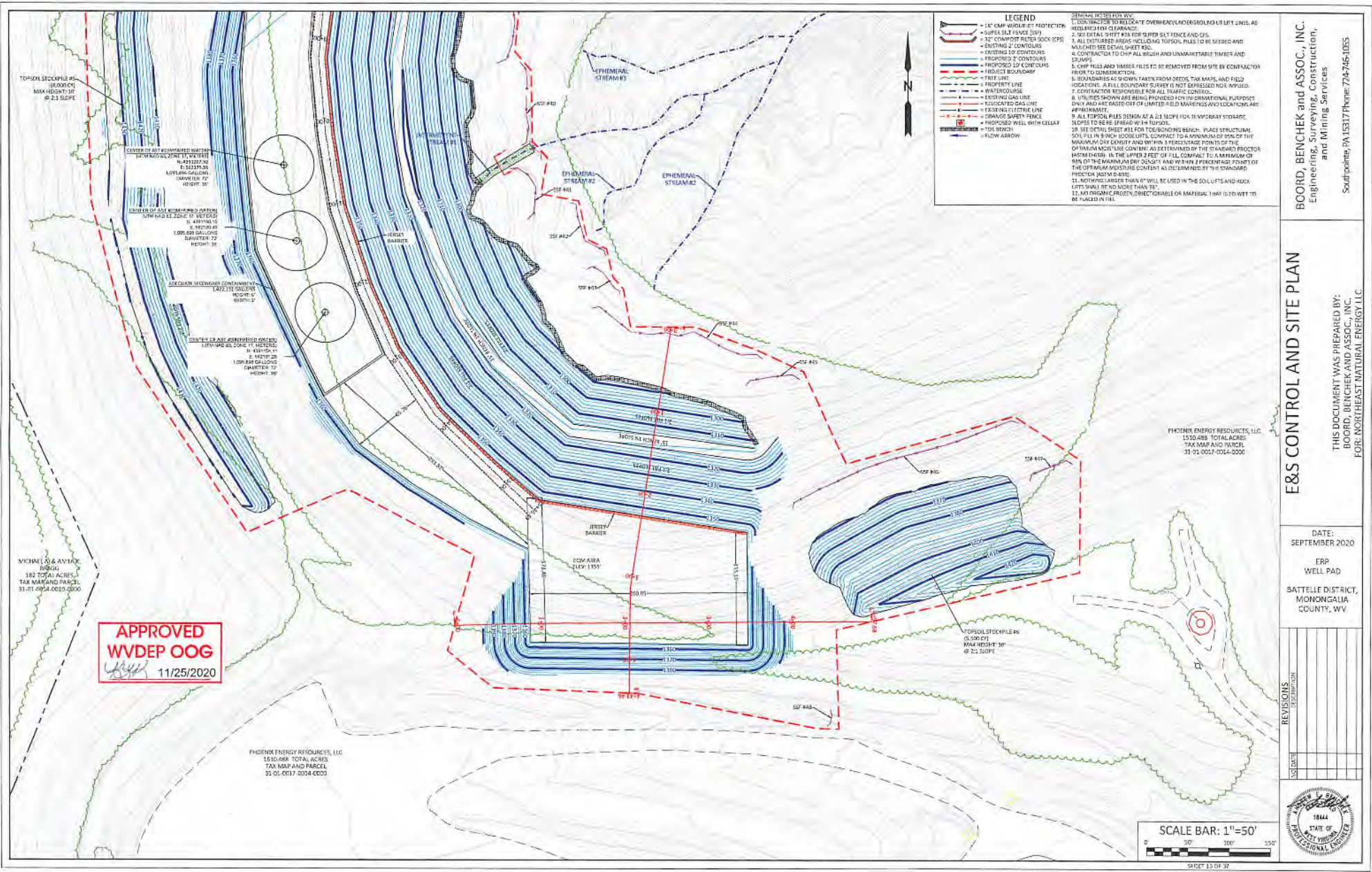
THIS DOCUMENT WAS PREPARED BY:  
 BOARD, BENCHER AND ASSOC., INC.  
 FOR: NORTHEAST NATURAL ENERGY LLC

DATE: SEPTEMBER 2020  
 ERP WELL PAD  
 BATTLEFIELD DISTRICT, MONONGALIA COUNTY, WV

NO.	REVISIONS	DESCRIPTION







- LEGEND**
- 1" = 16" CMP W/WHITE PROTECTION
  - 2" = SAFETY SLOPE (S/S)
  - 3" = 12" COMPOST FILTER SOCK (CFS)
  - 4" = EXISTING 2' CONTOURS
  - 5" = PROPOSED 2' CONTOURS
  - 6" = PROPOSED 3' CONTOURS
  - 7" = PROJECT BOUNDARY
  - 8" = TREE LINE
  - 9" = PROPERTY LINE
  - 10" = WATER COURSE
  - 11" = EXISTING GAS LINE
  - 12" = RELOCATED GAS LINE
  - 13" = EXISTING ELECTRIC LINE
  - 14" = ORANGE SAFETY FENCE
  - 15" = PROPOSED WELL WITH CELLAR
  - 16" = 10' BENCH
  - 17" = FLOW ARROW

- GENERAL NOTES FOR W/P:**
1. CONDUCTOR TO RELOCATE OVERHEAD UNDERGROUND UTILITY LINES AS REQUIRED FOR CLEARANCE.
  2. SET INITIAL SHFT #28 FOR 90' DEEP SLOTTED FILTER AND C/S.
  3. ALL EXISTING AREAS INCLUDING TOPSOIL PILES TO BE SIZED AND MAINTAINED SEE DETAIL SHEET #30.
  4. CONTRACTOR TO CHIP ALL BRUSH AND UNMARKETABLE TIMBER AND STUMPS.
  5. CHIP PILES AND LIMBS PILES TO BE REMOVED FROM SITE BY CONTRACTOR PRIOR TO CONSTRUCTION.
  6. BOUNDARIES AS SHOWN TAKEN FROM DETAIL TAX MAPS, AND FIELD LOCATIONS. A FULL BOUNDARY SURVEY IS NOT BEING MADE NOR REQUIRED.
  7. CONTRACTOR RESPONSIBLE FOR ALL TRAFFIC CONTROL.
  8. UTILITIES SHOWN ARE BEING PROVIDED FOR THE OPERATIONAL FLOODING ONLY AND ARE NOT 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-SPREAD WITH TOPSOIL.
  10. SEE DETAIL SHEET #31 FOR TOPSOILING BENCH. PLACE STRUCTURAL SOIL PILES IN 3" INCH GULCHES COMPACT TO A MINIMUM OF 90% OF THE MAXIMUM DRY DENSITY AND WITH 1% FINEST SAND. POINTS OF THE OPTIMUM MOISTURE CONTENT AS DETERMINED BY THE STANDARD PROCTOR TEST METHOD. IN THE UPPER 2' FEET OF FILL, COMPACT TO A MINIMUM OF 90% OF THE MAXIMUM DRY DENSITY AND WITH 2% FINEST SAND. FORTIFIED THE OPTIMUM MOISTURE CONTENT AS DETERMINED BY THE STANDARD PROCTOR TEST METHOD.
  11. NOTHING LARGER THAN 6" WILL BE USED IN THE SOIL LUTS AND HOLES. LUTS SHALL BE NO MORE THAN 20'.
  12. ALL DRUMS, CROCK, DIRECT DRAINAGE OR MATERIAL THAT IS FOUND TO BE FLAGGED IN FILL.

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

**E&S CONTROL AND SITE PLAN**

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 BOORD, BENCHEK AND ASSOC., INC.  
 FOR: NORTHEAST NATURAL ENERGY, LLC

DATE: SEPTEMBER 2020  
 ERP WELL PAD  
 BATTLE DISTRICT, MONONGALIA COUNTY, WV

NO.	DATE	REVISIONS



**APPROVED WVDEP OOG**  
 11/25/2020

MICHAEL G. MATAR, 609046  
 182 TOTAL ACRES  
 TAX MAP AND PARCEL  
 31.01.0014.0013.0000

PHOENIX ENERGY RESOURCES, LLC  
 152.0488 TOTAL ACRES  
 TAX MAP AND PARCEL  
 31.01.0017.0004.0000

SCALE BAR: 1"=50'  
 0 50' 100' 150'