



west virginia department of environmental protection

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

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

Monday, 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 8H
47-061-01879-00-00

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 8H
Farm Name: PHOENIX ENERGY RESOURCES
U.S. WELL NUMBER: 47-061-01879-00-00
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

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.

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: 8H 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: 21,782'

11) Proposed Horizontal Leg Length: 12,642'

12) Approximate Fresh Water Strata Depths: 50', 1,240'

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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18)

CASING AND TUBING PROGRAM

TYPE	<u>Size (in)</u>	<u>New or Used</u>	<u>Grade</u>	<u>Weight per ft. (lb/ft)</u>	<u>FOOTAGE: For Drilling (ft)</u>	<u>INTERVALS: Left in Well (ft)</u>	<u>CEMENT: Fill-up (Cu. Ft.)/CTS</u>
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	21782	21752	4990
Tubing	2-7/8	New	P-110	6.5	NA	8000	NA
Liners							

Bayan Harris
3-23-21

TYPE	<u>Size (in)</u>	<u>Wellbore Diameter (in)</u>	<u>Wall Thickness (in)</u>	<u>Burst Pressure (psi)</u>	<u>Anticipated Max. Internal Pressure (psi)</u>	<u>Cement Type</u>	<u>Cement Yield (cu. ft./k)</u>
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.

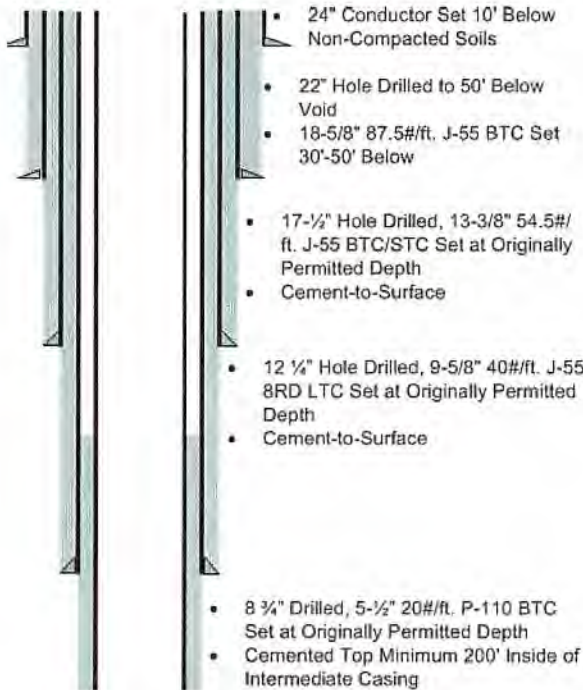
All casings programs submitted to the state incorporate the use of a 24" conductor over the previously used 20" that has long been the industry standard for a typical Marcellus design. The use of 24" conductor casing allows the use of a 22" bit to ream the surface hole, and drill 50' below the void to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

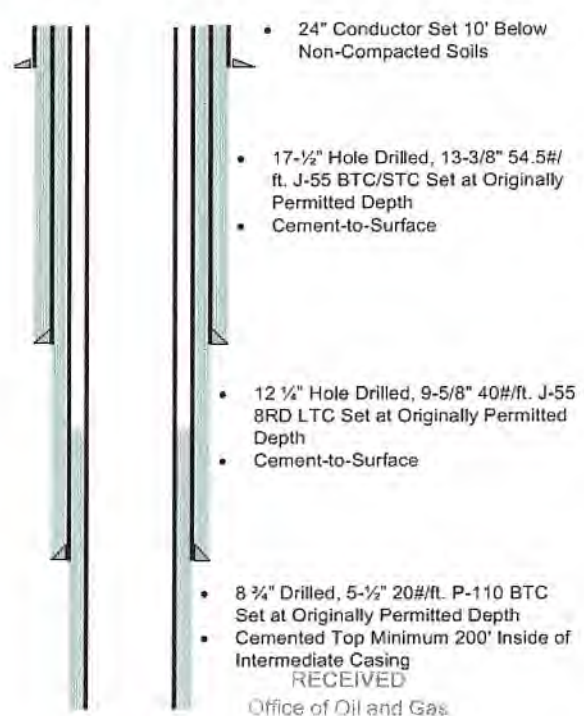
With the use of these string sizes and techniques, the surface and intermediate strings do not need to be altered. After a proper WOC time, the surface section of the well would continue to be drilled with a 17-1/2" bit and the 13-3/8" 54.50#/ft freshwater casing would be set at the originally permitted 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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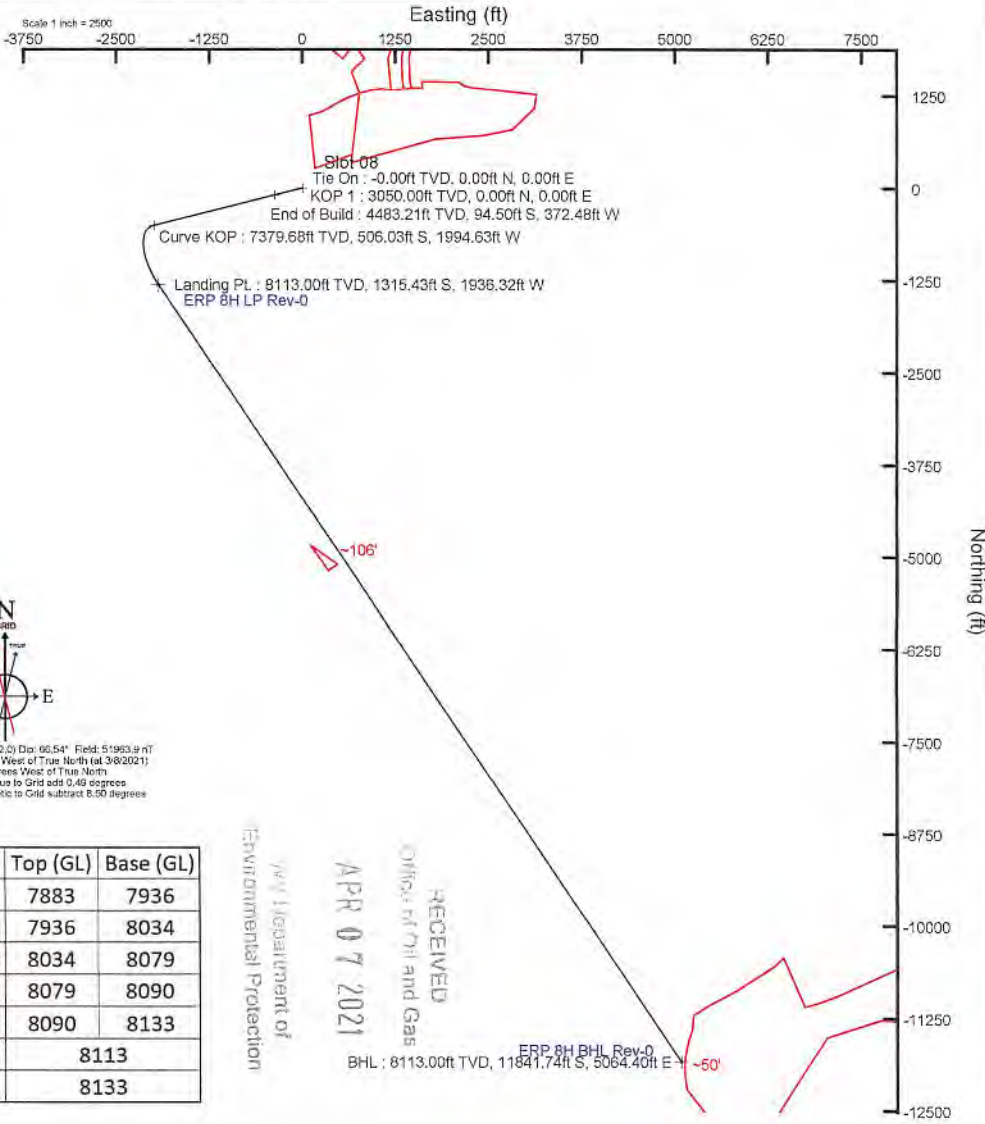
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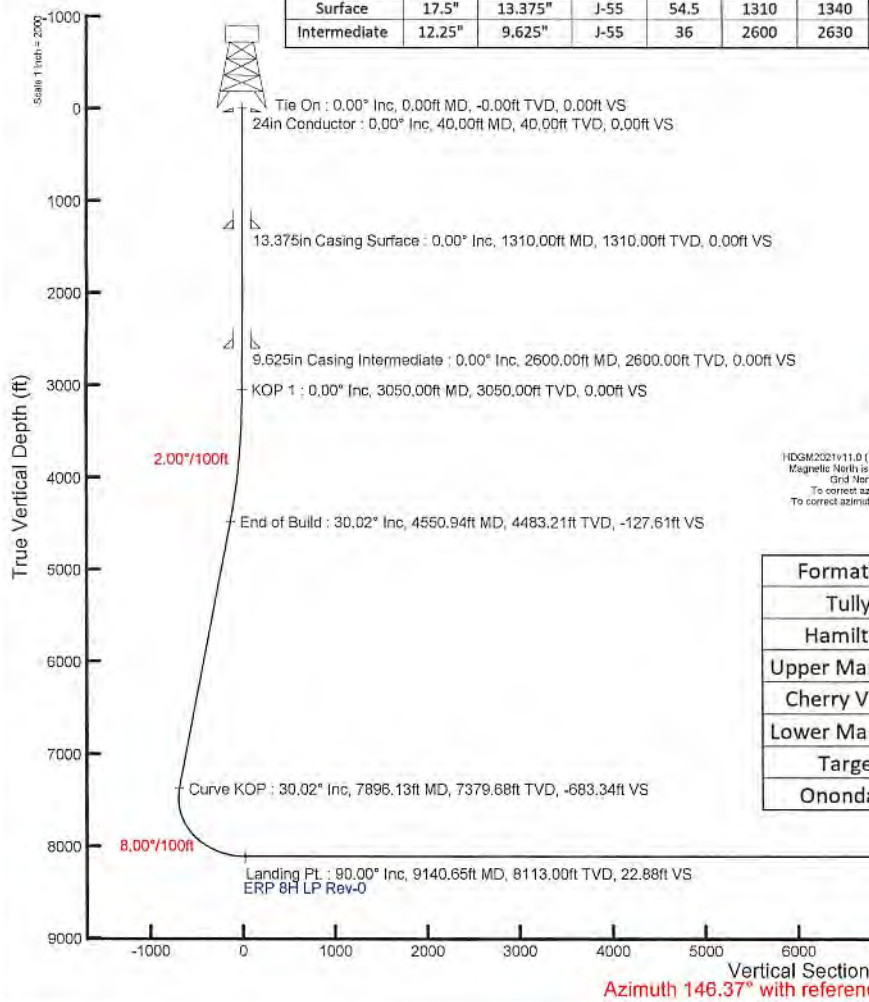
11/11 - IC

05/14/2021

Location Information					
Facility Name		Grid East (US B)	Grid North (US B)	Latitude	Longitude
ERP Pad		1750511.960	428438.070	39°40'25.3685"N	80°18'24.2109"W
Slot	Local N (ft)	Local E (ft)	Grid North (US B)	Grid East (US B)	Latitude
Slot 08	-13.05	-15.15	1750796.810	428425.020	39°40'25.2382"N
Ground Level (GL) to Ground level (At Slot: Slot 08)				0ft	
Mean Sea Level to Ground level (At Slot: Slot 08)				-1342ft	
Ground Level (GL) to Mean Sea Level				1342ft	



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



HDGM2021v11.0 (1900.0 to 2022.0) Dis: 66.54' Field: 51963.9 nT
 Magnetic North is 8.99 degrees West of True North (at 3/8/2021)
 Grid North is 0.49 degrees West of True North
 To correct azimuth from True to Grid add 0.49 degrees
 To correct azimuth from Magnetic to Grid subtract 8.50 degrees

Formation	Top (GL)	Base (GL)
Tully	7883	7936
Hamilton	7936	8034
Upper Marcellus	8034	8079
Cherry Valley	8079	8090
Lower Marcellus	8090	8133
Target	8113	
Onondaga	8133	

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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

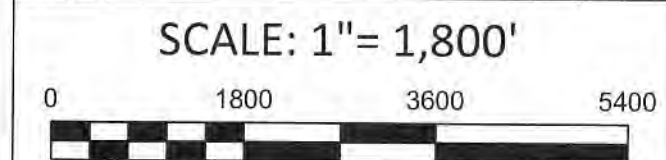
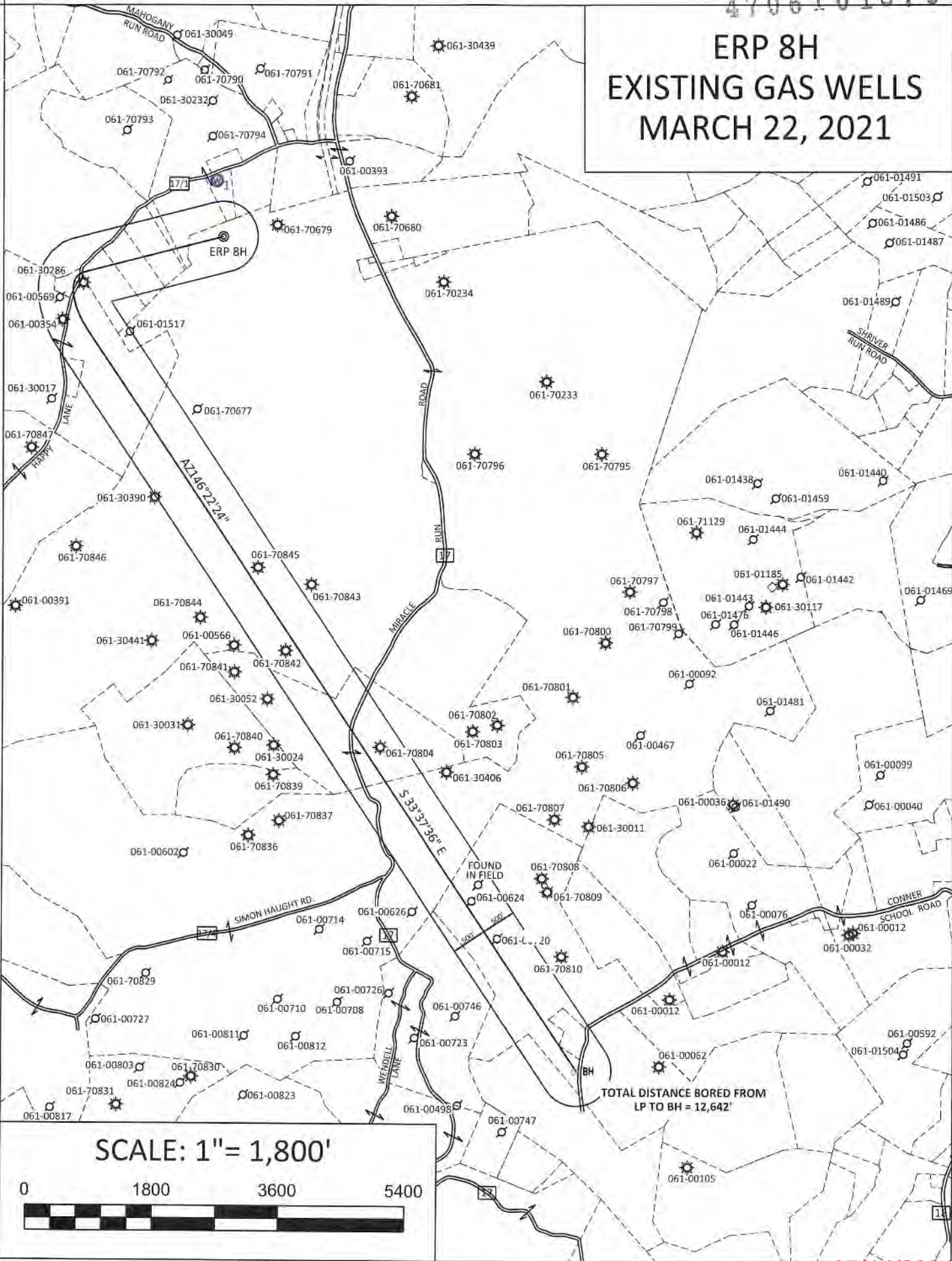
Azimuth 146.37° with reference 0.00 N, 0.00 E

ERP 8H AREA OF REVIEW

API Number	Well Name	Well Number	Operator	Latitude (NAD 83)	Longitude (NAD 83)	TMP	TVD	Comments
061-30286	Eliam Park	1	Hope Natural Gas Company	39.67192	-80.280195	1-14-10	3334'	
061-00569	Janice Shriver	79 (EACC) 360	Eastern Associated / Peabody Coal Company	39.671292	-80.281696	1-14-10	3048'	Plugged 12/20/78
061-00354	Presley Shriver	9526	Hope Natural Gas Company	39.670396	-80.281539	1-14-10	3207'	
061-30390	South Penn Natural Gas Co	1	Moses, William	39.663557	-80.276439	1-17-14	3046'	
061-70842	E C Tennant	2	NA	39.657749	-80.26988	1-17-14	NA	Pre 1929 farm well
061-00720	Sylvia O Wilson	303	Eastern Associated / Peabody Coal Company	39.646446	-80.259177	4-19-1	NA	Plugged 5/12/83
061-00624	Wheeling Dollar	2	Eastern Associated / Peabody Coal Company	39.647896	-80.26049	4-19-1	NA	Plugged 11/2/81
FOUND IN FIELD	NA	NA	NA	39.648515	80.260174	4-19-1	NA	

4706101879

ERP 8H
EXISTING GAS WELLS
MARCH 22, 2021



TOTAL DISTANCE BORED FROM LP TO BH = 12,642'

05/14/2021

WW-9
(4/16)

API Number 47 - _____
Operator's Well No. ERP 8H

**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

Notary Public



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

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 8H Site Safety Plan

March 2021

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3-23-21

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05/14/2021

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

ROGER L. SEAMAN
2.11 TOTAL ACRES
X MAP AND PARCEL
01-0007-0039-0000



RUSSELL L. TROTHMAN &
VIRGINIA M. TROTHMAN
48.84 TOTAL ACRES
TAX MAP AND PARCEL
31-01-0014-0016-0000

CANDACE J. McLELLAN &
JOHN McLELLAN
74.21 TOTAL ACRES
TAX MAP AND PARCEL
31-01-0014-0019-0000

LOYD F. LANTZ &
MAVIS LANTZ
31-01-0014-0026-0000

OSBERT RAY CORDER &
RONA CORDER
31-01-0014-0029-0000

LOYD F. LANTZ &
MAVIS LANTZ
31-01-0014-0017-0000

NORMA WILLIAMS
1-14-19

FREDDIE WAYNE &
NORMA JANE WILLIAMS
1-14-18

CHAD ALLEN
SWANSON
1-14-19.3

GLENN N. &
ORPHA J REED
1-14-33

RICHARD E
SHRIVER
1-14-11

GEORGE H.
FOLLY &
BRANDON
BRAGG
1-14-10.3

PHOENIX ENERGY
RESOURCES, LLC
1-14-19.1

Federal
National
Mortgage
Association
1-14-19.2

MIRACLE RUN
UNITED METH
CHURCH
1-14-34.1

Eastern
Associated
Coal
Corporation
1-14-34

MARK A. & DEBRA
C WILLIAMS
1-14-19.7

PHOENIX ENERGY
RESOURCES, LLC
1-14-35.1

MIRACLE RUN
M. L. CHURCH
1-14-35.1

MIRACLE RUN
M. L. CHURCH
1-14-36

EASTERN
ASSOCIATED
COAL CORP
1-14-36

ROGER E. & TERESA J
SWANSON
1-14-10.3

ANITA K &
MICHAEL A
BRAGG
1-14-10.4

GEORGE H FOLEY
ANITA K & MICHAEL A
BRAGG
1-14-10

PHOENIX ENERGY
RESOURCES, LLC
1-17-14

LAT: 39.670577
LON: 80.264168

1500'

2000'

3000'

WELL NAME: ERP 8H
WADESTOWN, WV

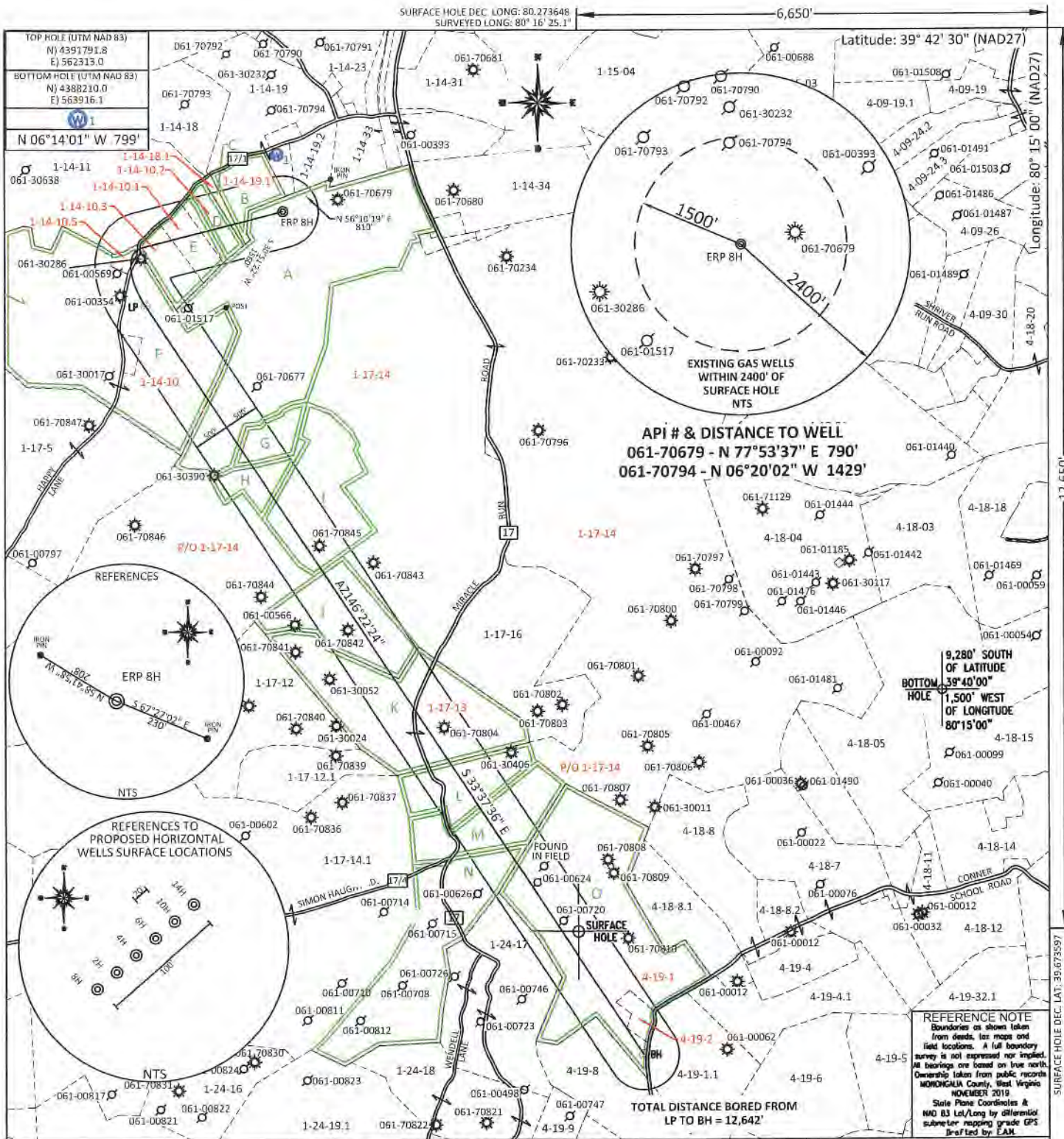


TOTAL DISTANCE BORED FROM
LP TO BH = 12,642'

05/14/2021



GRAPHIC SCALE



FILE #: NNE20
 DRAWING #: 2986
 SCALE: PLAT: 1" = 2000'
 TICK: 1" = 2000'
 MINIMUM DEGREE OF ACCURACY: 1/200
 PROVEN SOURCE SUBMETER MAPPING OF ELEVATION: GRADE GPS

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

Signed: *[Signature]*
 L.L.S. #2124 : Ernest J. Benchek III



(+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS WVDEP
 OFFICE OF OIL & GAS
 601 57TH STREET
 CHARLESTON, WV 25304

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

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

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 8H
 API WELL #: 47 61 01879 HGA
 STATE COUNTY PERMIT
 CURRENT ELEVATION: 1,350'
 PROPOSED ELEVATION: 1,338.60'
 QUADRANGLE: WADESTOWN
 ACREAGE: 1510.488 +/-
 ACREAGE: 855.899 + 05/14/2021

ESTIMATED DEPTH: TVD: 8,113' TMD: 21,782'
 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
1-14-10.3	ROGER E. & TERESA J. SWANSON
1-14-10.5	BARR SCHOOL
1-14-18.1	NORMA WILLIAMS
1-14-10	MICHAEL A. & ANITA K. BRAGG
1-14-19.1	PHOENIX ENERGY RESOURCES, LLC
1-17-13	PHOENIX ENERGY RESOURCES, LLC
4-19-1	SCOTTIE GLEN TRUST & KATHLEEN WILSON
4-19-2	SCOTTIE GLEN TRUST & KATHLEEN WILSON

LEASE INDEX			
A	WV-061-005667-001	I	WV-061-005754-001
B	WV-061-005667-001	J	WV-061-004326-014
C	WV-061-005697-001	K	WV-061-003767-004
D	WV-061-005697-001	L	WV-061-005667-001
E	WV-061-005329-015	M	WV-061-003767-004
F	WV-061-004482-001	N	WV-061-003767-004
G	WV-061-005754-001	O	WV-061-005607-001
H	WV-061-004326-014		

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WV Department of
Environmental Protection

05/14/2021

FILE #: NEE20

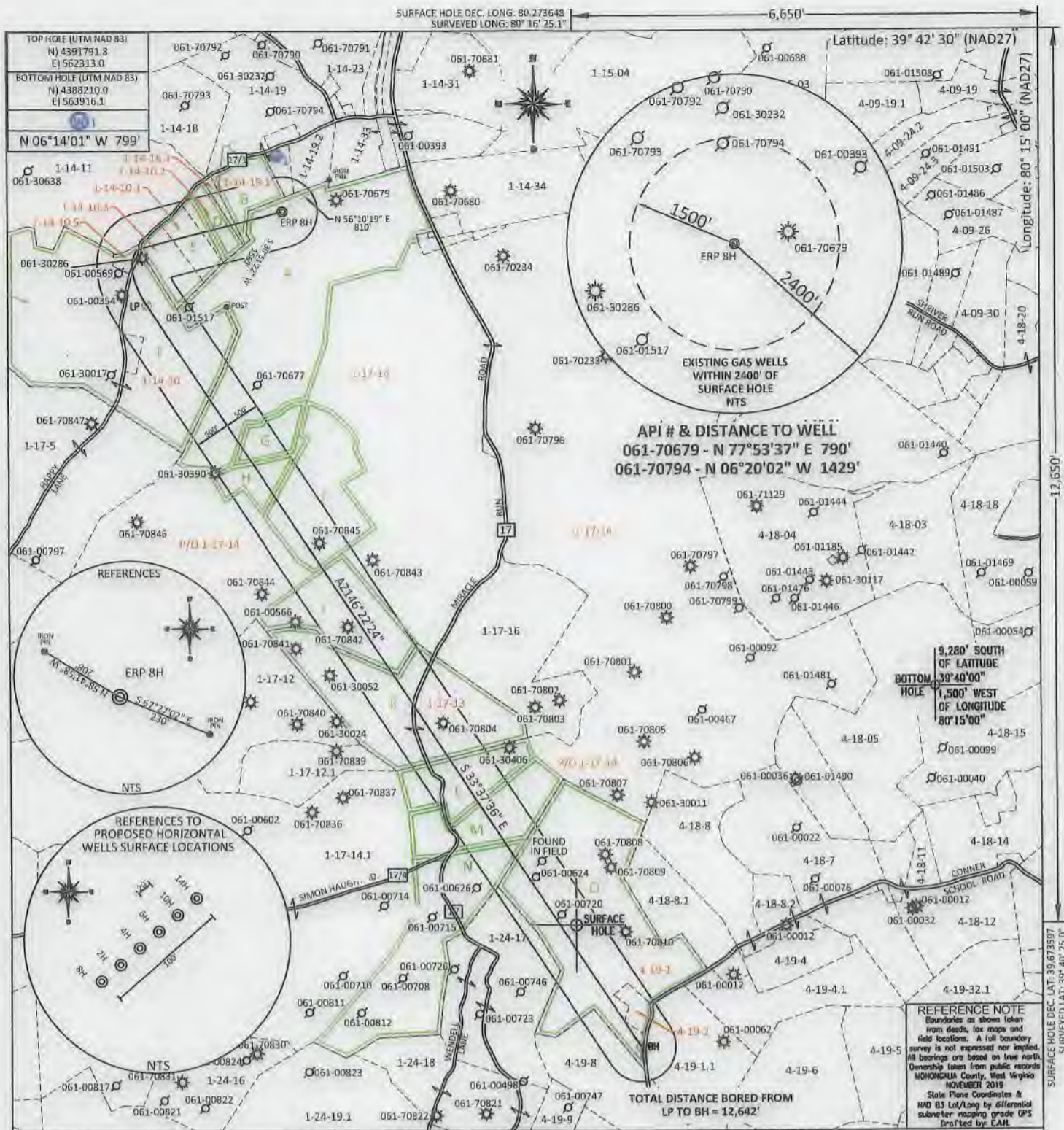
DRAWING #: 2986

SCALE: N/A

DATE: MARCH 22, 2021

OPERATOR'S WELL #: ERP 8H

API WELL #: 47 61 01879 HGA
STATE COUNTY PERMIT



FILE #: NNE20
 DRAWING #: 2986
 SCALE: PLAT: 1" = 2000'
HC: 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.
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 PLUG OFF FORMATION PERFORATE NEW FORMATION PLUG & ABANDON
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F	WV-061-004482-001	N	WV-061-003767-004
G	WV-061-005754-001	O	WV-061-005607-001
H	WV-061-004326-014		

05/14/2021

FILE #: NEE20

DRAWING #: 2986

SCALE: N/A

DATE: MARCH 22, 2021

OPERATOR'S WELL #: ERP 8H

API WELL #: 47 61 01819 HGA
STATE COUNTY PERMIT

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

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

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

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

**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:

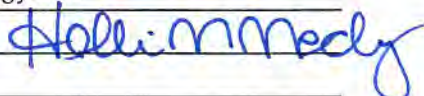
- WV Division of Water and Waste Management
- WV Division of Natural Resources WV Division of Highways
- U.S. Army Corps of Engineers
- U.S. Fish and Wildlife Service
- County Floodplain Coordinator

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

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

4100101079

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-061-005697-001	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-061-004482-001	Drema Lemley Howard	Northeast Natural Energy LLC	12.5% or Greater	1589	206
	WV-061-004770-001	Karen L. Haight	Northeast Natural Energy LLC	12.5% or Greater	1622	282
	WV-061-004505-023	Piney Holdings, Inc.	Northeast Natural Energy LLC	12.5% or Greater	1726	244
	WV-061-004505-008	Lloyd Condra	Northeast Natural Energy LLC	12.5% or Greater	1589	214
	WV-061-004505-007	Harold Condra	Northeast Natural Energy LLC	12.5% or Greater	1589	212
	WV-061-004505-009	Rex Devore	Northeast Natural Energy LLC	12.5% or Greater	1589	216
	WV-061-004505-001	Carey Devore	Northeast Natural Energy LLC	12.5% or Greater	1588	581
	WV-061-004505-011	Ruby Garza	Northeast Natural Energy LLC	12.5% or Greater	1589	821
	WV-061-004505-006	Robert Wesley Devore	Northeast Natural Energy LLC	12.5% or Greater	1589	210
	WV-061-004505-004	Wendell W. Devore (Wendell Devore heir)	Northeast Natural Energy LLC	12.5% or Greater	1588	590
	WV-061-004505-004	Jeffrey R. Devore (Wendell Devore heir)	Northeast Natural Energy LLC	12.5% or Greater	1588	590
	WV-061-004505-003	Blanche "Jackie" Lindsey	Northeast Natural Energy LLC	12.5% or Greater	1588	588
	WV-061-004505-005	Louise Maiers	Northeast Natural Energy LLC	12.5% or Greater	1588	592
	WV-061-004505-012	Shirley M. Archer	Northeast Natural Energy LLC	12.5% or Greater	1589	823
	WV-061-004505-010	Richard Lewis Radcliff	Northeast Natural Energy LLC	12.5% or Greater	1589	819
	WV-061-004505-013	Burnetta Sales	Northeast Natural Energy LLC	12.5% or Greater	1592	587
	WV-061-004505-002	Bernice Houser	Northeast Natural Energy LLC	12.5% or Greater	1588	583
	G	WV-061-005754-001	Ridgetop Appalachia, LLC	Northeast Natural Energy LLC	12.5% or Greater	1730
WV-061-005203-048		Richard G. Bower, Jr.	Northeast Natural Energy LLC	12.5% or Greater	1637	772
H	WV-061-005754-001	Ridgetop Appalachia, LLC	Northeast Natural Energy LLC	12.5% or Greater	1730	25
	WV-061-005736-001	Joyce Mansfield Clarke	Northeast Natural Energy LLC	12.5% or Greater	1727	217
	WV-061-005203-052	Susan L. Tennant Stuzen	Northeast Natural Energy LLC	12.5% or Greater	1721	471
	WV-061-005662-005	Deanna L. Tennant	Northeast Natural Energy LLC	12.5% or Greater	1717	277
	WV-061-005662-004	Michael W. Tennant	Northeast Natural Energy LLC	12.5% or Greater	1717	344

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Tract	Lease Number	Grantor, Lessor, etc.	Grantee, Lessee, etc.	Royalty	Book	Page
	WV-061-005662-002	Charles J. Tennant	Northeast Natural Energy LLC	12.5% or Greater	1709	641
	WV-061-005662-001	Julia Brooks	Northeast Natural Energy LLC	12.5% or Greater	1709	327
	WV-061-005203-036	Jere L. Johnson	Northeast Natural Energy LLC	12.5% or Greater	1633	358
	WV-061-005203-033	Lisa G. Latham	Northeast Natural Energy LLC	12.5% or Greater	1630	327
	WV-061-005203-041	Denny Guy Bower	Northeast Natural Energy LLC	12.5% or Greater	1631	825
	WV-061-005203-022	Elisa G. Mitchell	Northeast Natural Energy LLC	12.5% or Greater	1629	221
	WV-061-005203-019	Kevin M. Burchett	Northeast Natural Energy LLC	12.5% or Greater	1630	175
	WV-061-005203-024	Thomas M. Boyd	Northeast Natural Energy LLC	12.5% or Greater	1630	63
	WV-061-005203-039	James Richard Boyd	Northeast Natural Energy LLC	12.5% or Greater	1633	364
	WV-061-005203-038	Robert Dale Priest	Northeast Natural Energy LLC	12.5% or Greater	1633	362
	WV-061-005203-042	William Otis Priest	Northeast Natural Energy LLC	12.5% or Greater	1635	442
	WV-061-005203-013	Carol Lee Jones	Northeast Natural Energy LLC	12.5% or Greater	1623	551
	WV-061-005203-011	Janice Sue Davis Waddell	Northeast Natural Energy LLC	12.5% or Greater	1623	547
	WV-061-005203-012	Pamela Eloise Davis Collier	Northeast Natural Energy LLC	12.5% or Greater	1623	549
	WV-061-005203-035	Kayla Jo Mitchell Padgett	Northeast Natural Energy LLC	12.5% or Greater	1630	382
	WV-061-005203-037	Raymond Charles Tennant, Jr.	Northeast Natural Energy LLC	12.5% or Greater	1633	360
	WV-061-005203-046	Amanda Roberta Tennant Miller	Northeast Natural Energy LLC	12.5% or Greater	1697	271
	WV-061-005203-020	Shirley Ann Trotto Mohamed	Northeast Natural Energy LLC	12.5% or Greater	1630	177
	WV-061-005203-026	Robin Louise Trotto	Northeast Natural Energy LLC	12.5% or Greater	1630	65
	WV-061-005203-023	Roger Lee Trotto	Northeast Natural Energy LLC	12.5% or Greater	1629	223
	WV-061-005253-005	John Douglas Martin	Northeast Natural Energy LLC	12.5% or Greater	1629	260
	WV-061-005253-006	Lori Ann Martin-Gainey	Northeast Natural Energy LLC	12.5% or Greater	1629	262
	WV-061-005253-063	Leslie Martin, Jr.	Northeast Natural Energy LLC	12.5% or Greater	1717	269
	WV-061-005253-066	Edward Todd Martin	Northeast Natural Energy LLC	12.5% or Greater	1720	206
	WV-061-005253-004	Jeffery Martin	Northeast Natural Energy LLC	12.5% or Greater	1628	623
	WV-061-005253-009	Jordan Covemaker	Northeast Natural Energy LLC	12.5% or Greater	1637	436
	WV-061-005253-012	Nicholas Martin	Northeast Natural Energy LLC	12.5% or Greater	1638	604
	WV-061-005253-022	Katrina Martin	Northeast Natural Energy LLC	12.5% or Greater	1653	162
	WV-061-005253-001	Jessica Smith	Northeast Natural Energy LLC	12.5% or Greater	1628	617
	WV-061-005253-003	Michelle Lyn Martin	Northeast Natural Energy LLC	12.5% or Greater	1628	621
	WV-061-005253-034	Jamie Gibson	Northeast Natural Energy LLC	12.5% or Greater	1696	82
	WV-061-005253-013	Scott Edward Carlisle	Northeast Natural Energy LLC	12.5% or Greater	1640	337
	WV-061-005253-010	Susan Lynn Tennant Sandor	Northeast Natural Energy LLC	12.5% or Greater	1623	545
	WV-061-005253-040	Charles Nathan Tennant	Northeast Natural Energy LLC	12.5% or Greater	1633	366
	WV-061-005253-036	Judy Ann Subetto	Northeast Natural Energy LLC	12.5% or Greater	1696	196
	WV-061-005253-032	Brenda Kay Standifer Perry	Northeast Natural Energy LLC	12.5% or Greater	1695	108
	WV-061-005253-046	Dawn Renee Morris	Northeast Natural Energy LLC	12.5% or Greater	1636	183
	WV-061-005253-014	Lana Jo Sigman	Northeast Natural Energy LLC	12.5% or Greater	1643	251
	WV-061-005253-010	Vicky June Scott	Northeast Natural Energy LLC	12.5% or Greater	1637	438
	WV-061-005253-007	Gregory D. Moyers	Northeast Natural Energy LLC	12.5% or Greater	1631	467
	WV-061-005253-008	Terri Lynn Moyers Keaton	Northeast Natural Energy LLC	12.5% or Greater	1631	469
	WV-061-005253-052	Diane Mary Morrison Shearer	Northeast Natural Energy LLC	12.5% or Greater	1706	271
	WV-061-005253-051	Donald F. Morrison	Northeast Natural Energy LLC	12.5% or Greater	1702	5
	WV-061-005253-049	Connie Sue Rudacille a/k/a Connie Sue Radcliffe	Northeast Natural Energy LLC	12.5% or Greater	1699	419
	WV-061-005253-050	David Lee Toothman	Northeast Natural Energy LLC	12.5% or Greater	1702	3
	WV-061-005253-034	Thomas H. More	Northeast Natural Energy LLC	12.5% or Greater	1630	329
	WV-061-005203-043	Arlene Joyce Mitchell Hysong heirs	Northeast Natural Energy LLC	12.5% or Greater	1635	444
	WV-061-005203-021	Ruth Frances Mitchell	Northeast Natural Energy LLC	12.5% or Greater	1630	179
	WV-061-005474-001	Mary A. Billingslea a/k/a Mary B. Shubert	Northeast Natural Energy LLC	12.5% or Greater	1647	169
	WV-061-005253-039	Diana Jones, f/k/a Diana J. Wontorski	Northeast Natural Energy LLC	12.5% or Greater	1696	202
	WV-061-005253-040	Richard A. Beeman, Sr.	Northeast Natural Energy LLC	12.5% or Greater	1696	204
	WV-061-005253-018	Shirley Wolfe	Northeast Natural Energy LLC	12.5% or Greater	1647	777
	WV-061-005253-025	Judy Sanson	Northeast Natural Energy LLC	12.5% or Greater	1693	218
	WV-061-005253-029	Melissa Crawley, f/k/a Melissa King	Northeast Natural Energy LLC	12.5% or Greater	1674	475
	WV-061-005253-030	Jeffrey King	Northeast Natural Energy LLC	12.5% or Greater	1694	613
	WV-061-005253-028	Betty Jo King	Northeast Natural Energy LLC	12.5% or Greater	1694	609
	WV-061-005474-008	Robert E. Roberts	Northeast Natural Energy LLC	12.5% or Greater	1694	626
	WV-061-005253-037	Edward Kennedy	Northeast Natural Energy LLC	12.5% or Greater	1696	198
	WV-061-005253-031	John Kennedy	Northeast Natural Energy LLC	12.5% or Greater	1694	624
	WV-061-005474-004	Rita Amstutz	Northeast Natural Energy LLC	12.5% or Greater	1693	220
	WV-061-005474-007	Anita Kennedy, f/k/a Anita Johnson	Northeast Natural Energy LLC	12.5% or Greater	1694	617
	WV-061-005474-006	Jeffrey Kennedy, a/k/a Jeffery Kennedy	Northeast Natural Energy LLC	12.5% or Greater	1693	224
	WV-061-005474-003	Connie M. Kennedy	Northeast Natural Energy LLC	12.5% or Greater	1691	778
	WV-061-005474-005	Shawn A. Kennedy	Northeast Natural Energy LLC	12.5% or Greater	1693	222

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	WV-061-005253-065	Braylon M. Freeman	Northeast Natural Energy LLC	12.5% or Greater	1718	444
	WV-061-005253-057	Amanda Kennedy	Northeast Natural Energy LLC	12.5% or Greater	1709	315
	WV-061-005253-055	Jessica Kennedy	Northeast Natural Energy LLC	12.5% or Greater	1709	311
	WV-061-005253-056	Breanna Kennedy	Northeast Natural Energy LLC	12.5% or Greater	1709	313
	WV-061-005253-024	Kenneth F. Satterfield, a/k/a Kenneth Franklin Satterfield	Northeast Natural Energy LLC	12.5% or Greater	1693	216
	WV-061-005253-023	William A. Satterfield, a/k/a William Satterfield	Northeast Natural Energy LLC	12.5% or Greater	1692	231
	WV-061-005474-002	Terri Sue Rubenstein	Northeast Natural Energy LLC	12.5% or Greater	1650	419
	WV-061-005253-027	James E. Efaw	Northeast Natural Energy LLC	12.5% or Greater	1693	694
	WV-061-005253-026	Constance Payton, a/k/a Constance "Connie" Efaw Payton	Northeast Natural Energy LLC	12.5% or Greater	1693	692
	WV-061-005253-035	James R. Downs, II	Northeast Natural Energy LLC	12.5% or Greater	1695	112
	WV-061-005253-033	Vikki M. Downs, f/k/a Vikki M. Jones	Northeast Natural Energy LLC	12.5% or Greater	1695	110
	WV-061-005253-045	Carol Ann Gallion Billingslea	Northeast Natural Energy LLC	12.5% or Greater	1697	269
	WV-061-005253-043	Diana J. Pelletier	Northeast Natural Energy LLC	12.5% or Greater	1696	210
	WV-061-005253-058	Victoria A. Houk	Northeast Natural Energy LLC	12.5% or Greater	1710	815
	WV-061-005253-060	Richard W. Friedel	Northeast Natural Energy LLC	12.5% or Greater	1711	580
	WV-061-005253-059	Francis W. Friedel	Northeast Natural Energy LLC	12.5% or Greater	1711	578
	WV-061-005253-061	Brian L. Friedel	Northeast Natural Energy LLC	12.5% or Greater	1711	582
	WV-061-005253-064	Jack David Friedel	Northeast Natural Energy LLC	12.5% or Greater	1718	442
	WV-061-005253-047	Nancy Fulton	Northeast Natural Energy LLC	12.5% or Greater	1697	273
	WV-061-005253-038	Laurie Hannes	Northeast Natural Energy LLC	12.5% or Greater	1696	200
	WV-061-005474-013	Olivia Perkins	Northeast Natural Energy LLC	12.5% or Greater	1702	17
	WV-061-005253-041	Tommy Lambert	Northeast Natural Energy LLC	12.5% or Greater	1696	206
	WV-061-005253-042	Jack Parker, Sr.	Northeast Natural Energy LLC	12.5% or Greater	1696	208
	WV-061-005474-012	Jacqueline Langen	Northeast Natural Energy LLC	12.5% or Greater	1699	466
	WV-061-005253-044	Kelly Fisher	Northeast Natural Energy LLC	12.5% or Greater	1696	821
	WV-061-005474-011	Sheila Smith	Northeast Natural Energy LLC	12.5% or Greater	1698	338
	WV-061-005474-010	Stacy Jo Billingslea	Northeast Natural Energy LLC	12.5% or Greater	1698	336
	WV-061-005474-009	Margaret Reid, a/k/a Peggy Reid	Northeast Natural Energy LLC	12.5% or Greater	1697	275
	WV-061-005253-062	Lynda Jean Hansell	Northeast Natural Energy LLC	12.5% or Greater	1712	792
I	WV-061-005754-001	Ridgetop Appalachia, LLC	Northeast Natural Energy LLC	12.5% or Greater	1730	25
J	WV-061-004326-014	Chester A. Shuman, Jr.	Northeast Natural Energy LLC	12.5% or Greater	1618	561
	WV-061-004326-017	James W. Shuman	Northeast Natural Energy LLC	12.5% or Greater	1631	357
	WV-061-004326-016	David L. Shuman	Northeast Natural Energy LLC	12.5% or Greater	1619	812
	WV-061-004228-010	Betty Steele	Northeast Natural Energy LLC	12.5% or Greater	1604	209
	WV-061-004228-001	Deborah Josephine Jarrell	Northeast Natural Energy LLC	12.5% or Greater	1571	643
	WV-061-004228-002	Richard E. Shriver	Northeast Natural Energy LLC	12.5% or Greater	1571	647
	WV-061-004228-005	Sandra K. Tuttle	Northeast Natural Energy LLC	12.5% or Greater	1572	225
	WV-061-004228-004	Donna Y. Nuzum a/k/a Donna E. Yergovich	Northeast Natural Energy LLC	12.5% or Greater	1572	231
	WV-061-004228-003	Stephen N. Yergovich, Jr.	Northeast Natural Energy LLC	12.5% or Greater	1571	649
	WV-061-004228-008	Donald Patrick Lemley	Northeast Natural Energy LLC	12.5% or Greater	1594	725
	WV-061-004228-007	Herbert Keith Amato	Northeast Natural Energy LLC	12.5% or Greater	1592	619
	WV-061-004326-011	Jeanne Wernette	Northeast Natural Energy LLC	12.5% or Greater	1591	165
	WV-061-005201-003	Susan Ash	Northeast Natural Energy LLC	12.5% or Greater	1628	564
	WV-061-005201-012	Beverly Boyce	Northeast Natural Energy LLC	12.5% or Greater	1628	562
	WV-061-005201-001	Kimberly Dottavio Statler	Northeast Natural Energy LLC	12.5% or Greater	1628	560
	WV-061-005201-004	Deborah Statler	Northeast Natural Energy LLC	12.5% or Greater	1628	566
	WV-061-004326-012	Donald W. Tuttle	Northeast Natural Energy LLC	12.5% or Greater	1598	381
	WV-061-004326-004	Dave Tuttle	Northeast Natural Energy LLC	12.5% or Greater	1585	5
	WV-061-004326-005	Deanna Paauwee	Northeast Natural Energy LLC	12.5% or Greater	1585	9
	WV-061-004326-006	Lois Hatch	Northeast Natural Energy LLC	12.5% or Greater	1585	11
	WV-061-004326-003	Scott Barrett	Northeast Natural Energy LLC	12.5% or Greater	1584	803
	WV-061-004326-020	Michael K. Tuttle	Northeast Natural Energy LLC	12.5% or Greater	1691	770
	WV-061-004326-019	Steven W. Tuttle	Northeast Natural Energy LLC	12.5% or Greater	1691	768
	WV-061-004326-002	Janet Villarreal	Northeast Natural Energy LLC	12.5% or Greater	1584	801
	WV-061-004482-001	Drema Lemley Howard	Northeast Natural Energy LLC	12.5% or Greater	1589	206
	WV-061-004326-018	Waco Oil & Gas Company, Inc.	Northeast Natural Energy LLC	12.5% or Greater	1690	240
	WV-061-004326-013	Karen L. Haught	Northeast Natural Energy LLC	12.5% or Greater	1604	400
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-061-0005667-001	Phoenix Energy Resources, LLC (formerly ERP Mining Complex, LLC)	Northeast Natural Energy LLC	12.5% or Greater	1710	737
	WV-061-004376-001	Bonnie Curtis	Northeast Natural Energy LLC	12.5% or Greater	1578	434
	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

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Tract	Lease Number	Grantor, Lessor, etc.	Grantee, Lessee, etc.	Royalty	Book	Page
	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
	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-061-003767-004	Phoenix Energy Resources, LLC (formerly ERP Mining Complex, LLC)	Northeast Natural Energy LLC	12.5% or Greater	1571	611
	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
N	WV-061-003767-004	Phoenix Energy Resources, LLC (formerly ERP Mining Complex, LLC)	Northeast Natural Energy LLC	12.5% or Greater	1571	611
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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March 26, 2021

WV Department of Environmental Protection
Office of Oil and Gas Management
601 57th 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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**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. 8H
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>562313.0</u>
County: <u>Monongalia</u>	Northing: <u>4391791.8</u>
District: <u>Battle</u>	Public Road Access: <u>Route 17/Miracle Run Rd</u>
Quadrangle: <u>Wedestown</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.

Pursuant to West Virginia Code § 22-6A, the Operator has attached proof to this Notice Certification that the Operator has properly served the required parties with the following: *PLEASE CHECK ALL THAT APPLY		OOG OFFICE USE ONLY
<input type="checkbox"/> 1. NOTICE OF SEISMIC ACTIVITY or <input checked="" type="checkbox"/> NOTICE NOT REQUIRED BECAUSE NO SEISMIC ACTIVITY WAS CONDUCTED		<input type="checkbox"/> RECEIVED/ NOT REQUIRED
<input checked="" type="checkbox"/> 2. NOTICE OF ENTRY FOR PLAT SURVEY or <input type="checkbox"/> NO PLAT SURVEY WAS CONDUCTED		<input type="checkbox"/> RECEIVED
<input checked="" type="checkbox"/> 3. NOTICE OF INTENT TO DRILL or <input type="checkbox"/> NOTICE NOT REQUIRED BECAUSE NOTICE OF ENTRY FOR PLAT SURVEY WAS CONDUCTED or <input type="checkbox"/> WRITTEN WAIVER BY SURFACE OWNER (PLEASE ATTACH)		<input type="checkbox"/> RECEIVED/ NOT REQUIRED
<input checked="" type="checkbox"/> 4. NOTICE OF PLANNED OPERATION	RECEIVED Office of Oil and Gas	<input type="checkbox"/> RECEIVED
<input checked="" type="checkbox"/> 5. PUBLIC NOTICE	APR 07 2021	<input type="checkbox"/> RECEIVED
<input checked="" type="checkbox"/> 6. NOTICE OF APPLICATION	WV Department of Environmental Protection	<input type="checkbox"/> RECEIVED

Required Attachments:

The Operator shall attach to this Notice Certification Form all Notice Forms and Certifications of Notice that have been provided to the required parties and/or any associated written waivers. For the Public Notice, the operator shall attach a copy of the Class II Legal Advertisement with publication date verification or the associated Affidavit of Publication. The attached Notice Forms and Certifications of Notice shall serve as proof that the required parties have been noticed as required under West Virginia Code § 22-6A. Pursuant to West Virginia Code § 22-6A-11(b), the Certification of Notice to the person may be made by affidavit of personal service, the return receipt card or other postal receipt for certified mailing.

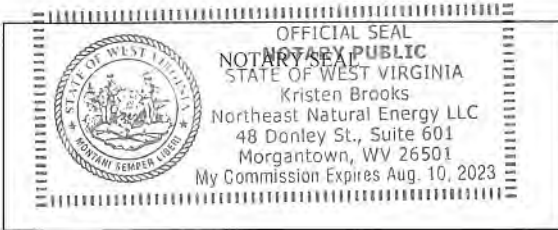
Certification of Notice is hereby given:

Hollie 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: Northeast Natural Energy, LLC
By: Hollie Medley
Its: Regulatory Manager
Telephone: 304-241-5752

Address: 707 Virginia St. E., Suite 1200
Charleston, WV 25301
Facsimile: 304-241-5972
Email: hmedley@nne-llc.com



Subscribed and sworn before me this 1st 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 depprivacyofficer@wv.gov.

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WW-6A
(9-13)

API NO. 4; _____
OPERATOR WELL NO. 8H _____
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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Notice is hereby given:

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

This Notice Shall Include:

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

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

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

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

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

APR 07 2021

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

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

Water Well Testing:

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

Water Testing Laboratories:

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

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

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

Written Comment:

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

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

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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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APR 07 2021
WV Department of
Environmental Protection

WW-6A
(8-13)

API NO. 47-_____-
OPERATOR WELL NO. 8H_____
Well Pad Name: ERP_____

Notice is hereby given by:

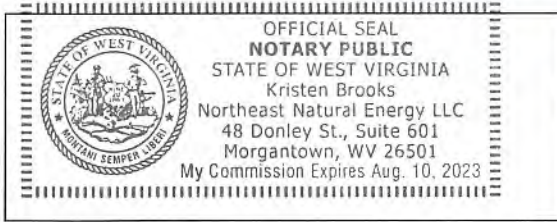
Well Operator: Northeast Natural Energy LLC
Telephone: 304-414-7060
Email: hmedley@nne-llc.com

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

Holl: medg



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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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>Wadesstown</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 57th Street, SE, Charleston, WV 25304 (304-926-0450). Copies of such documents or additional information related to horizontal drilling may be obtained from the Secretary by visiting www.dep.wv.gov/oil-and-gas/pages/default.aspx.

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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.

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>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 57th Street, SE, Charleston, WV 25304 (304-926-0450). Copies of such documents or additional information related to horizontal drilling may be obtained from the Secretary by visiting www.dep.wv.gov/oil-and-gas/pages/default.aspx.

Notice is hereby given by:

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

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

Oil and Gas Privacy Notice:

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

**STATE OF WEST VIRGINIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS
NOTICE OF 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 57th Street, SE, Charleston, WV 25304 (304-926-0450). Copies of such documents or additional information related to horizontal drilling may be obtained from the Secretary by visiting www.dep.wv.gov/oil-and-gas/pages/default.aspx.

Notice is hereby given by:

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

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

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Oil and Gas Privacy Notice:

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

STATE OF WEST VIRGINIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS
NOTICE OF 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: _____
 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

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 Office of Oil and Gas
 APR 07 2021
 WV Department of
 Environmental Protection

Notice is hereby given:

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

State:	<u>West Virginia</u>	Approx. Latitude & Longitude:	<u>39.673595, -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 57th Street, SE, Charleston, WV 25304 (304-926-0450). Copies of such documents or additional information related to horizontal drilling may be obtained from the Secretary by visiting www.dep.wv.gov/oil-and-gas/pages/default.aspx.

Notice is hereby given by:

Well Operator:	<u>Northeast Natural Energy LLC</u>	Address:	<u>707 Virginia St. E, Suite 1200 Charleston, WV 25301</u>
Telephone:	<u>304-414-7060</u>	Facsimile:	<u>304-241-5972</u>
Email:	_____		

Oil and Gas Privacy Notice:

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

STATE OF WEST VIRGINIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS
NOTICE OF 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: West Virginia UTM NAD 83 Easting: 562313.0
County: Monongalia Northing: 4391791.8
District: Battelle Public Road Access: Route 17
Quadrangle: Wadestown Generally used farm name: ERP
Watershed: Dunkard Creek

This Notice Shall Include:

Pursuant to West Virginia Code § 22-6A-16(b), this notice shall include the name, address, telephone number, and if available, facsimile number and electronic mail address of the operator and the operator's authorized representative. Additional information related to horizontal drilling may be obtained from the Secretary, at the WV Department of Environmental Protection headquarters, located at 601 57th Street, SE, Charleston, WV 25304 (304-926-0450) or by visiting www.dep.wv.gov/oil-and-gas/pages/default.aspx.

Notice is hereby given by:

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

Authorized Representative: Hollie Medley, Regulatory Manager
Address: 48 Donley St, Suite 601
Morgantown, WV 26501
Telephone: 304-241-5752
Email: _____
Facsimile: _____

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Office of Oil and Gas
APR 07 2021
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.

4706101879

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

RECEIVED
Office of Oil and Gas
APR 07 2021
WV Department of
Environmental Protection

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: West Virginia UTM NAD 83 Easting: 562313.0
County: Monongalia Northing: 4391791.8
District: Battelle Public Road Access: Route 17
Quadrangle: Wadestown Generally used farm name: ERP
Watershed: Dunkard Creek

This Notice Shall Include:

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

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

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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.

Office of Oil and Gas

APR 07 2021

WV Department of Environmental Protection

05/14/2021

SURFACE OWNERS

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

Norma Williams ✓
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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 57th Street, SE
Charleston, WV 25304

Subject: DOH Permit for the ERP Pad, Monongalia County
ERP 8H 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

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Office of Oil and Gas

APR 07 2021

WV Department of
Environmental Protection

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

4706101879

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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 APR 07 2021
 WV Department of
 Environmental Protection

ERP WELL PAD BATTELLE DISTRICT, MONONGALIA COUNTY, WV SEPTEMBER 2020

WEST VIRGINIA 811

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

OWNER



APPROVED
WVDEP OOG
[Signature] 11/25/2020

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

RECEIVED
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 & OPHIA L. REED (TAX MAP AND PARCEL 05-14-33): 6.99 AC.
PHOENIX ENERGY RESOURCES, LLC (TAX MAP AND PARCEL 05-14-40): 47.79 AC.
PHOENIX ENERGY RESOURCES, LLC (TAX MAP AND PARCEL 05-14-39-1): 1.34 AC.
NORMA WILLIAMS (TAX MAP AND PARCEL 05-14-19): 0.31 AC.

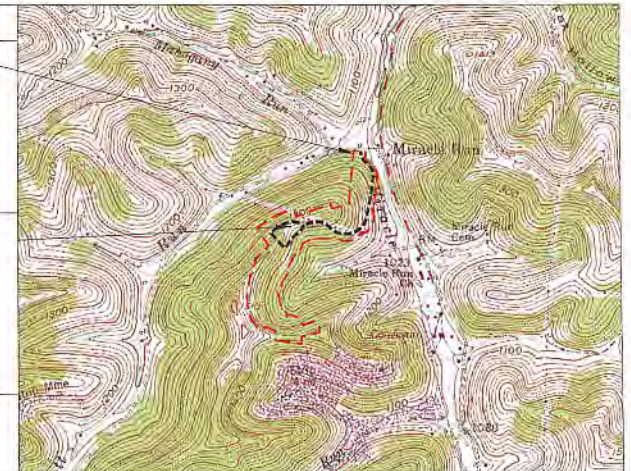


IN ACCORDANCE WITH WV 35 CSR 8 THE FOLLOWING EROSION & SEDIMENT CONTROL PLAN HAS BEEN DESIGNED IN ACCORDANCE WITH BEST MANAGEMENT PRACTICES ESTABLISHED BY THE CHIEF AND PROVIDED IN THE OFFICE'S EROSION AND SEDIMENT CONTROL FIELD MANUAL. A GENERAL CONSTRUCTION SEQUENCE, DESCRIPTION OF STABILIZATION METHODS,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

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"



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

SHEET
1
OF
37

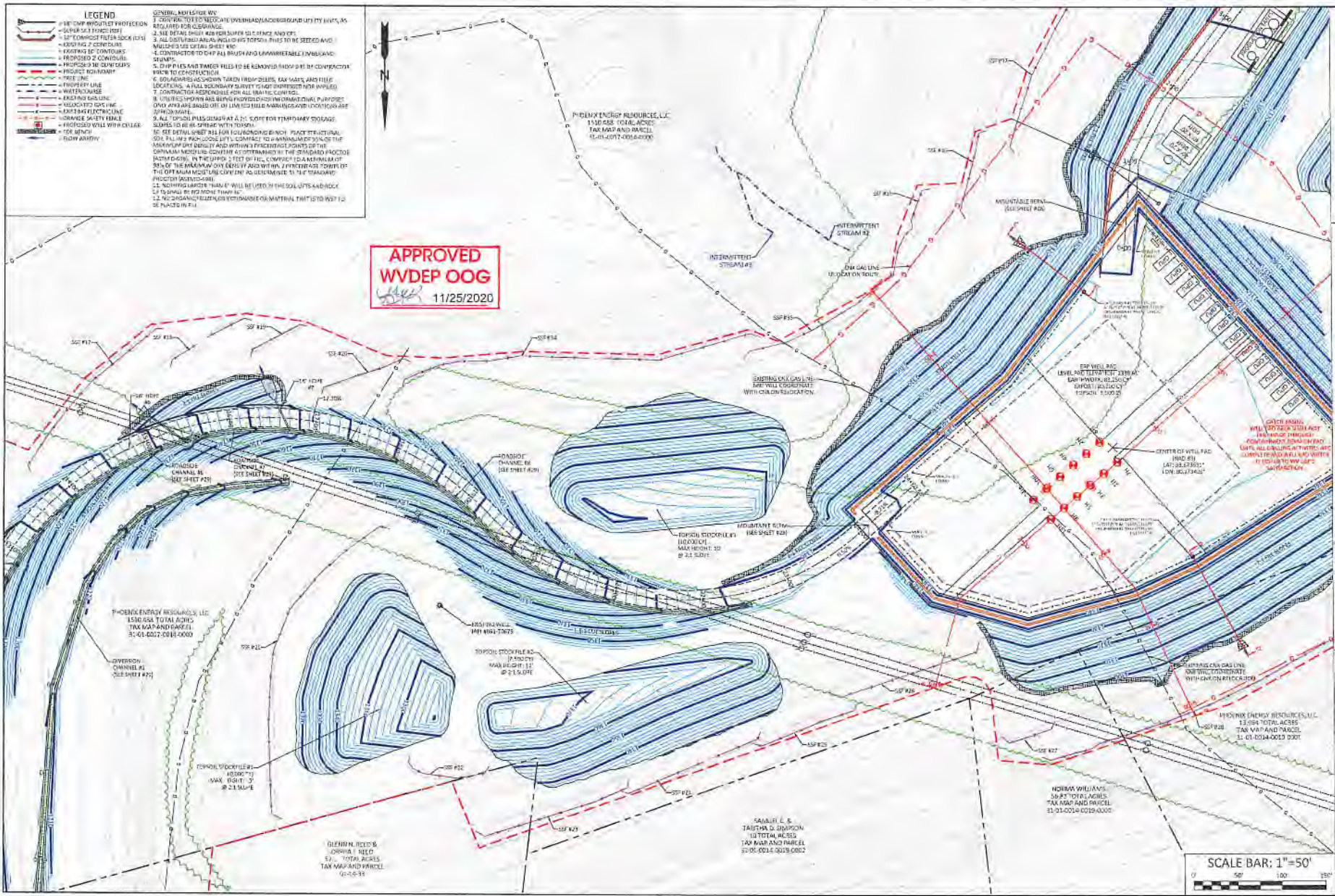
1"=1000'

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

LEGEND

- 18" CMP W/SHIELD PROTECTION
- 6" SUPPLY PIPE
- 6" EXISTING WATER MAIN
- EXISTING 2" CONDUIT
- PROPOSED 2" CONDUIT
- PROPOSED 3" CONDUIT
- PROJECT BOUNDARY
- TRIE LINE
- PROPERTY LINE
- WATERCOURSE
- EXISTING GAS LINE
- PROPOSED 2" GAS LINE
- EXISTING ELECTRICAL
- CONCRETE WATER MAIN
- PROPOSED WALL WITH CURB
- FOR BENT
- BLOW ARMY

- GENERAL NOTES:**
1. CONSTRUCTION SHALL BE ACCORDING TO THE SPECIFICATIONS AND STANDARDS OF THE WV DEPARTMENT OF ENVIRONMENTAL POLYMER AND WATER QUALITY DIVISION.
 2. SEE DETAIL SHEET FOR SUPPLY PIPING AND SIZES.
 3. ALL CONDUITS SHALL BE INSTALLED TO PROTECT THEM FROM DAMAGE AND TO PROVIDE A MINIMUM COVER OF 18" OVER THE CONDUITS.
 4. CONTRACTOR TO OBTAIN ALL NECESSARY PERMITS AND APPROVALS FROM ALL AFFECTED AGENCIES.
 5. ALL PIPES AND TRUNK LINES TO BE REMOVED AND REPAIRED BY CONTRACTOR PRIOR TO CONSTRUCTION.
 6. CONDUITS SHALL BE INSTALLED UNDER EXISTING PAVEMENT AND UNDER EXISTING UTILITY LINES. ALL NECESSARY SLEEVES SHALL BE INSTALLED PRIOR TO CONSTRUCTION.
 7. CONTRACTOR SHALL BE RESPONSIBLE FOR ALL NECESSARY CONNECTIONS TO EXISTING UTILITIES.
 8. UTILITIES SHOWN ARE BEING PROVIDED FOR INFORMATION PURPOSES ONLY AND ARE BASED ON THE RECORD DRAWINGS AND FIELD SURVEY DATA.
 9. ALL TOPSOIL SHALL BE REPLACED AT A 1% GRADE FOR TEMPORARY STORAGE. SOILS TO BE REPLACED WITH TOPSOIL.
 10. SEE DETAIL SHEET FOR FLOW CONTROL AND PROTECTIVE STRUCTURES. ALL FLOW CONTROL STRUCTURES SHALL BE INSTALLED PRIOR TO THE COMMENCEMENT OF THE MAINLINE CONSTRUCTION AND WITHIN 3 FEET OF THE CENTERLINE OF THE MAINLINE CONDUIT. THE STRUCTURES SHALL BE CONSTRUCTED TO WITHSTAND FLOOD FLOWS AND SHALL BE MAINTAINED IN GOOD WORKING ORDER AT ALL TIMES.
 11. NO OBSTRUCTIONS SHALL BE PLACED WITHIN THE PROTECTIVE STRUCTURES.
 12. NO OBSTRUCTIONS SHALL BE PLACED WITHIN THE PROTECTIVE STRUCTURES.



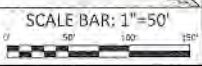
E&S CONTROL AND SITE PLAN

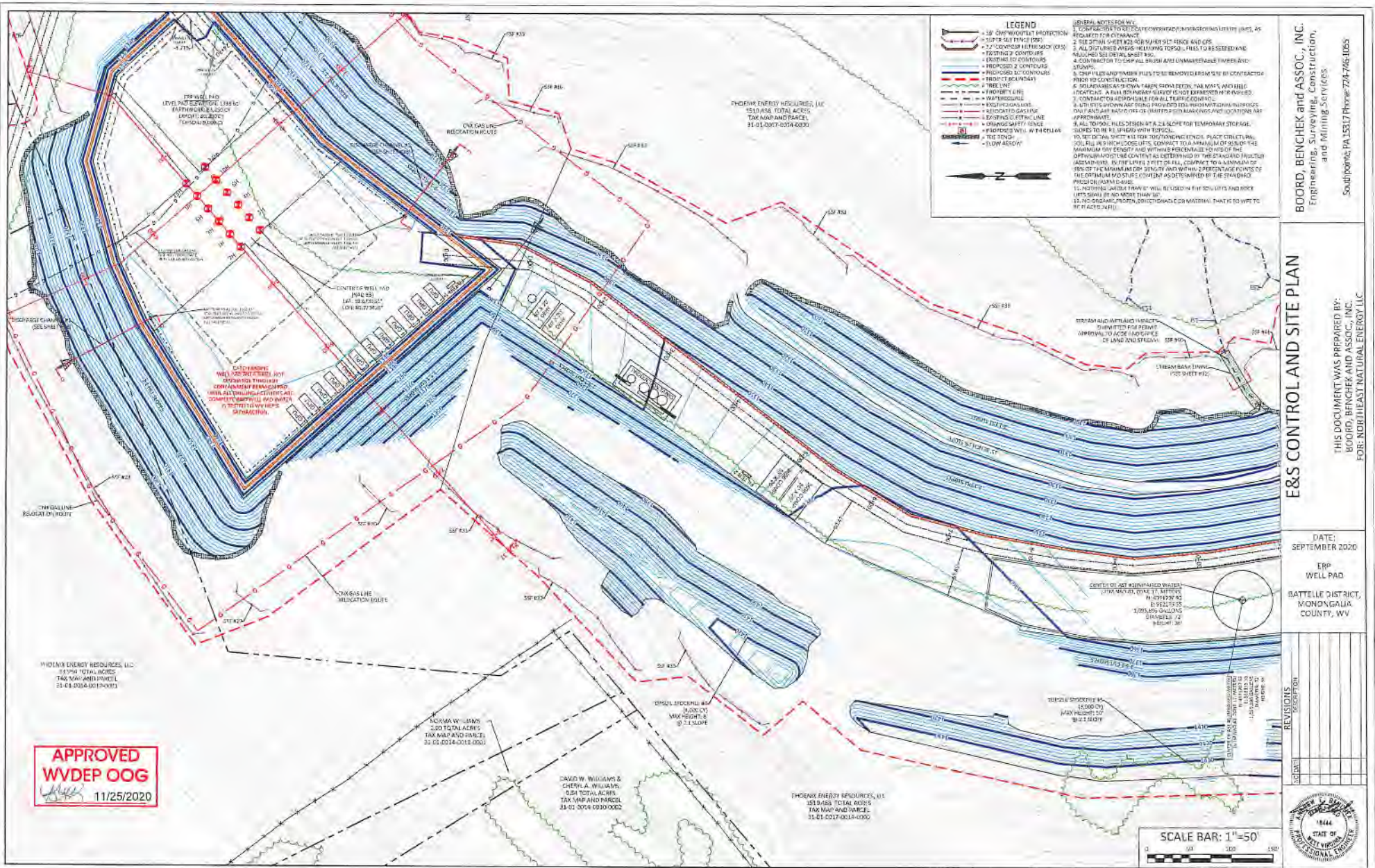
BOORD, BENCHEK and ASSOC., INC.
Engineering, Surveying, Construction,
and Mining Services
Southpointe, PA 15317 Phone: 724-746-3105

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

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

NO.	REVISIONS	DATE





LEGEND

- 1. 2' CHAIN WOODPILE PROTECTION
- 2. 12" CONCRETE INTERLOCK (CI)
- 3. 12" CONCRETE INTERLOCK (CI)
- 4. EXISTING TO CONTOURS
- 5. PROPOSED TO CONTOURS
- 6. PROPOSED TO CONTOURS
- 7. TREE LINE
- 8. PROPERTY LINE
- 9. WATER COURSE
- 10. EXISTING ROAD
- 11. PROPOSED ROAD
- 12. EXISTING UTILITY LINE
- 13. UNDEVELOPED WELLS
- 14. PROPOSED WELLS
- 15. THE TRENCH
- 16. SLOW ASSESS

GENERAL NOTES FOR WELLS:

- CONTRACTOR TO USE SAFE (OR EQUIVALENT) METHODS TO PROTECT ALL UTILITIES AS REQUIRED FOR CONSTRUCTION.
- SEE DETAIL SHEET #15 FOR SUPER SLOPE TRENCH AND GPS.
- ALL DISTURBED AREAS INCLUDING TOPSOIL, FILL TO BE SEEDED AND MULCHED TO ORIGINAL STATE.
- CONTRACTOR TO EMPLOY ALL BRUSH AND UNDESIRABLE TREES AND STUMPS.
- CRIP FILES AND OTHER FILES TO BE REMOVED FROM SITE BY CONTRACTOR PRIOR TO CONSTRUCTION.
- STORMWATER CONTROL MEASURES SHALL BE TAKEN FROM DETAIL SHEETS AND FIELD LOCATIONS. A FULL EROSION CONTROL PLAN SHALL BE SUBMITTED AND APPROVED BY THE DISTRICT PRIOR TO CONSTRUCTION.
- CONTRACTOR RESPONSIBLE FOR ALL EROSION CONTROL.
- ALL DISTURBED AREAS SHALL BE PROTECTED FROM WEEDS AND INVASIVE SPECIES AND ALL PARTS OF DISTURBED AREAS SHALL BE MARKED AND LOCATIONS AND APPROXIMATE.
- ALL TOPSOIL SHALL BE STORED IN A 2' DEEP TEMPORARY STORAGE PILE TO BE RE-SPREAD WITH TOPSOIL.
- TO DETECT AND PREVENT ALL FUEL OIL TANKS FROM LEAKING, PLACE DETECTION PILES IN SLOTTED HOLES TO CONNECT TO A MINIMUM OF 50% OF THE MAXIMUM OIL DEPTH AND WITHIN PERCENTAGE POINTS OF THE OPTHALMOSCOPIC CONTENT AS DETERMINED BY THE STANDING FRACTION (AS DETERMINED). EXISTING LINES 2 FEET OF FILL, COMPACT TO A MINIMUM OF 95% OF THE MAXIMUM OIL DEPTH AND WITHIN PERCENTAGE POINTS OF THE OPTHALMOSCOPIC CONTENT AS DETERMINED BY THE STANDING FRACTION (AS DETERMINED).
- NO OTHER "AS-BUILT" DRAWINGS WILL BE USED FOR THE SITE AND WORK (THIS SHALL BE NO MORE THAN 30').
- NO OTHER "AS-BUILT" DRAWINGS WILL BE USED FOR THE SITE AND WORK (THIS SHALL BE NO MORE THAN 30').

BOARD, BENCHEK and ASSOC., INC.
 Engineering, Surveying, Construction,
 and Mining Services
 Southport, VA 23177 Phone: 754-746-0655

E&S CONTROL AND SITE PLAN

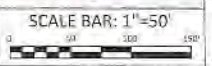
THIS DOCUMENT WAS PREPARED BY:
 BOARD, BENCHEK AND ASSOC., INC.
 FOR: NORTHEAST NATURAL ENERGY, LLC

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

NO.	DATE	DESCRIPTION



APPROVED WVDEP OOG
 11/25/2020



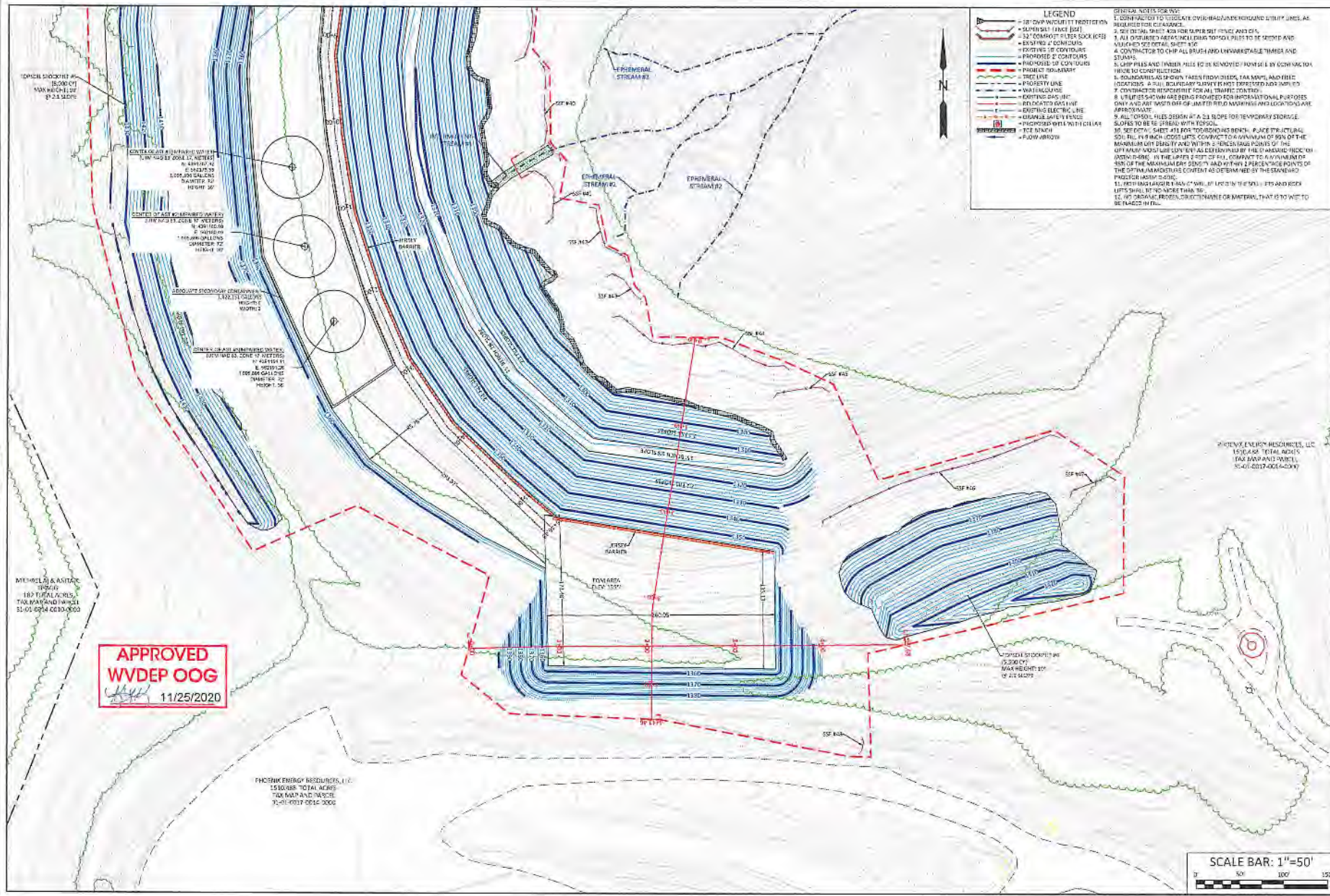
SCALE BAR: 1"=50'

PHOENIX ENERGY RESOURCES, LLC
 74,574 TOTAL ACRES
 TAX MAP AND PARCEL
 31-01-0014-0011-0001

MICHAEL WILLIAMS
 2,000 TOTAL ACRES
 TAX MAP AND PARCEL
 31-01-0014-0011-0002

DAVID W. WILLIAMS &
 CHERYL A. WILLIAMS
 8,281 TOTAL ACRES
 TAX MAP AND PARCEL
 31-01-0014-0011-0003

PHOENIX ENERGY RESOURCES, LLC
 151,945 TOTAL ACRES
 TAX MAP AND PARCEL
 31-01-0014-0011-0004



- LEGEND**
- 12" CMP W/OUT 11" THROTTLE ON
 - SAND/SALT (PUMP BOX)
 - 34" CONDUIT FLEX BACK (S&B)
 - BOXING OF CONDUITS
 - FORTING OF CONDUITS
 - PROPOSED 2" CONTOURS
 - PROPOSED 3" CONTOURS
 - TRAIL LINE
 - PROPERTY BOUNDARY
 - PROPERTY LINE
 - W/ALLIGATOR
 - EXISTING GAS LINE
 - PROPOSED GAS LINE
 - EXISTING ELECTRIC LINE
 - EXISTING WATER LINE
 - PROPOSED 18" WATER MAIN
 - FEE MARCH
 - FLOW ARROW
- GENERAL NOTES FOR W&E:**
1. CONDUCTIVITY TO LOCATE OVERHEAD/UNDERGROUND UTILITY LINES AS INDICATED FOR CLARIFICATION.
 2. 20' ZONE AROUND W&E FOR SUPER DEEP PUMP AND/OR S&B.
 3. ALL EXISTING UTILITIES INCLUDING POWER LINES TO BE IDENTIFIED AND VALUED BY METAL SHEET W&E.
 4. CONTRACTOR TO CHIP ALL BRUSH AND UNDESIRABLE TREES AND STUMPS.
 5. CHIP PILES AND OTHER PILES TO BE REMOVED FROM SITE BY CONSTRUCTION FIRM TO CONSTRUCTION.
 6. FOUNDATIONS AS SHOWN TAKEN FROM SHELPS, TAX MAPS, AND FIELD LOCATIONS. A SHIP FOUNDATION PLAN MUST BE PROVIDED FOR APPROVED CONTRACTOR RESPONSIBILITY FOR ALL TRAFFIC CONTROL.
 7. CONTRACTOR RESPONSIBILITY FOR ALL TRAFFIC CONTROL.
 8. UTILITIES SHOWN ARE BEING PROVIDED FOR INFORMATIONAL PURPOSES ONLY AND ARE NOT PART OF LIMITED FIELD MARKING AND LOCATIONS ARE APPROXIMATE.
 9. ALL CONDUIT LINES DESIGN AT A 2% SLOPE FOR TEMPORARY STORAGE. SLOPES TO BE RE-SPREAD WITH TOPSOIL.
 10. SELECTIVE SWEET SPOTS FOR ROADWAY AND OTHER PLACE STRUCTURAL SOIL IN 8" INCH LODE UPS, COMPACT TO A MINIMUM OF 95% OF THE MAXIMUM UNDISTURBED UNIT AND WITHIN 2' GENERAL TOLERANCES OF THE OPTIMUM MOISTURE CONTENT AS DETERMINED BY THE STANDARD PROCTOR METHOD TESTING.
 11. ALL TRENCHES SHALL BE 18" WIDE AT BOTTOM AND 24" WIDE AT TOP. ALL TRENCHES SHALL BE PROTECTED WITH 12" X 12" REINFORCED CONCRETE OR EQUIVALENT MATERIAL THAT IS TO BE FILLED WITH FILL.

BOARD, BENCHEK and ASSOC., INC.
 Engineering, Surveying, Construction,
 and Mining Services
 Southampton, PA 13117 Phone: 724-746-0055

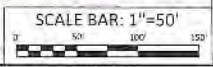
E&S CONTROL AND SITE PLAN

PHOSPHORUS ENERGY RESOURCES, LLC
 15000S TOTAL MINE
 TAX MAP AND PARCEL
 50-01-0017-0014-0001

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

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

NO.	REVISION/DESCRIPTION



APPROVED WVDEP OOG
 11/25/2020

PHOSPHORUS ENERGY RESOURCES, LLC
 15000S TOTAL MINE
 TAX MAP AND PARCEL
 50-01-0017-0014-0001