



west virginia department of environmental protection

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

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

Friday, September 1, 2023  
WELL WORK PLUGGING PERMIT  
Vertical Plugging

NNE RESOURCES LLC  
707 VIRGINIA STREET EAST, SUITE 1200

CHARLESTON, WV 25301

Re: Permit approval for 9  
47-061-00480-00-00

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.

Upon completion of the plugging well work, the above named operator will reclaim the site according to the provisions of WV Code 22-6-30. Please be advised that form WR-38, Affidavit of Plugging and Filling Well, 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: 9  
Farm Name: EDDY, D. J.  
U.S. WELL NUMBER: 47-061-00480-00-00  
Vertical Plugging  
Date Issued: 9/1/2023

## PERMIT CONDITIONS

West Virginia Code §22-6-11 allows the Office of Oil and Gas to place specific conditions upon this permit. Permit conditions have the same effect as law. Failure to adhere to the specified permit conditions may result in enforcement action.

### CONDITIONS

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1. All pits must be lined with a minimum of 20 mil thickness synthetic liner.
2. In the event of an accident or explosion causing loss of life or serious personal injury in or about the well or while working on the well, the well operator or its contractor shall give notice, stating the particulars of the accident or explosion, to the oil and gas inspector and the Chief within twenty-four (24) hours.
3. Well work activities shall not constitute a hazard to the safety of persons.
4. 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.

1) Date July 18, 2023  
2) Operator's  
Well No. DJ Eddy 9  
3) API Well No. 47-061 - 00480

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

APPLICATION FOR A PERMIT TO PLUG AND ABANDON

4) Well Type: Oil \_\_\_ / Gas X / Liquid injection \_\_\_ / Waste disposal \_\_\_ /  
(If "Gas, Production \_\_\_ or Underground storage \_\_\_) Deep \_\_\_ / Shallow X

5) Location: Elevation 1,193' Watershed Dunkard Creek  
District Clay County Monongalia Quadrangle Blacksville, WV

6) Well Operator NNE Resources LLC 7) Designated Agent Hollie Medley, Regulatory Manager  
Address 707 Virginia St. E., Suite 1200 Address 48 Donley St., Suite 601  
Charleston, WV 25301 Morgantown, WV 26501

8) Oil and Gas Inspector to be notified Name Gayne Knitowski  
Address PO Box 108  
Gorman, WV 26720  
9) Plugging Contractor Name TBD  
Address \_\_\_\_\_

10) Work Order: The work order for the manner of plugging this well is as follows:

See attached Plugging Procedure No Records Available.  
WILL USE PLAN FOR OFF-SET WELL API No. 47-061-00483P.  
★ MINIMUM OF 100' CLASS A OR L PLUGS ACROSS CASING CUTS.  
★ MUST USE EXPANDING CEMENT FROM 200' BELOW COAL  
TO 100' ABOVE COAL.

OFF-SET RECORDS  
ATTACHED.

JNM

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JUL 26 2023

WV Department of  
Environmental Protection

Notification must be given to the district oil and gas inspector 24 hours before permitted work can commence.

Work order approved by inspector Gayne Knitowski Date 7-24-2023

Digitally signed by  
Gayne Knitowski  
Date: 2023.07.24  
08:23:41 -0400



# northeast

NATURAL ENERGY

**DJ Eddy 9 – Plugging Procedure Revision 1 (08/30/2023)**  
**Clay District, Monongalia County, WV**  
**API Number: 47-061-00480**

## Introduction

Approval is requested to perform the initial plugging on the DJ Eddy 9 well. The DJ Eddy 9 is a vertical shallow well located in Clay District, Monongalia County, WV. This well was drilled to a depth of approximately 2,052'. The DJ Eddy 9 is not a producing well and is recommended to be plugged and abandoned.

## Well Data

The DJ Eddy 9 was completed on February 29, 1896 in Clay District, Monongalia County, WV. It was drilled to a depth of ~2,052 ft.

**DJ Eddy 9 Depths**

| Casing         | Depth (ft) |
|----------------|------------|
| Conductor      | 20         |
| 10" Casing     | 660        |
| 8 1/4" Casing  | 820        |
| 6 5/8" Casing  | 1,662      |
| 5 3/16" Casing | ~258       |

\*All 10" Casing Pulled.

\*assumed to be a liner. Bottom @ 1920'

| Formation        | Depth (ft) |
|------------------|------------|
| Pgh Coal         | 643        |
| Top of Big Injun | 1,920      |
| 1st Pay          | 2,023      |
| Total Depth      | 2,052      |

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**Capacities**

| Size (in) | Weight (lb/ft) | Capacity (gal/ft) | Capacity (bbis/ft) | Capacity (cu ft/ft) |
|-----------|----------------|-------------------|--------------------|---------------------|
| 10*       | N/A            | 4.192             | 0.0998             | 0.5603              |
| 8-1/4*    | N/A            | 2.738             | 0.0652             | 0.3659              |
| 6-5/8     | 20.0           | 1.536             | 0.0365             | 0.2052              |
| 5-3/16*   | N/A            | 1.038             | 0.0247             | 0.1387              |
| 2-3/8*    | 4.7            | 0.16239           | 0.00387            | 0.02171             |

\* estimates were used to produce the capacity data.

- For the 10" casing, the capacity of a 35.75 lb/ft 10-3/4" casing was used.
- For the 8-1/4" casing, the capacity of a 24 lb/ft 8-5/8" casing was used.
- For the 5-3/16" casing, the capacity of a 13 lb/ft 5-1/2" casing was used.

**Workover Data**

Supplemental data was provided by the state on additional workover events on the nearby DJ Eddy 12 well (47-061-0483). It can be assumed a similar series of workovers were done on the DJ Eddy 9 well.

| DJ Eddy 12 Workover |   |
|---------------------|---|
| Date                | Work Performed  |
| 12/30/1903          | Shots in Pay Zone   |
| 3/22/1906           | Shots in Pay Zone   |
| 10/3/1906           | Shots in Pay Zone   |
| 3/29/1909           | Shots in Pay Zone   |
| 8/10/1932           | Shots in Pay Zone   |
| 2/1/1941            | Casing Head Lowered 12"   |
| 9/12/1955           | Installed Bottom Hole Packer 5-3/16" x 6-5/8"<br>5-3/16 casing run to 1721' |

**Current Day Visual Inspection**

Currently the well sits with a pump jack and visible rods. No surface equipment exists.

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**Driving Directions**

Entrance Location: N39.647292, W80.159025

Beginning at Interstate 79, Exit 155 (Star City Exit) travel east on State Route 19/24 for 0.58 miles to the intersection of said State Route 19/24 and Route 19. Turn left at the stop light at the Star City Sheetz and travel 1.65 miles north on said Route 19 for 1.65 miles to the intersection of said Route 19 and WV Route 7 (Mason Dixon Highway). Turn left onto said WV Route 7 and travel west for 10.4 miles to the intersection of said WV Route 7 and State Route 29 (Jakes Run Road. Olive United methodist Church is at this intersection. Turn left onto said State Route 29 and travel south for 5.1 miles. Turn left onto State Route 33 (Behlar Road). The gravel entrance to the DJ Eddy 9 location will be on the left.

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**General Plugging Procedure:**

1. Safety is the number one priority. Wellsite safety meetings will be held before each task.
2. Ensure all E&S controls, access road, and rig pad are in place.
3. Keep a daily P&A report showing all activity, casing/tubing pulled, and record any cement pumped.
4. Move in and rig up (MIRU) construction equipment and remove any existing pump jacks, production tanks, separators, well lines, meter runs, etc.
5. Move in service rig & equipment.
6. Trip out of hole (TOOH) with any rods and/or production tubing.
7. Trip in hole (TIH) with workstring to confirm the wellbore is open to desired depth of approximately 1662'. It is not needed to tag the open hole bottom.
8. Due to the numerous shots performed over the years in the open hole, place a cast iron bridge plug in competent casing just above the producing formation (minimum of 20' above). Document set depth.
9. Place a minimum of 100' Class A or Class L cement plug on top of the cast iron bridge plug.
10. Wait on Cement (WOC)
11. RIH to confirm cement top. Record. Set additional plug(s) if needed.
12. Cut the 5-3/16" & 6-5/8" casing at free point and pull as much as possible.
13. RIH inside the 8-1/4" casing to confirm coal and freshwater depths.
14. Attempt to pull all of 8-1/4" casing (most likely it wasn't cemented at the time of install)
  - a. If not, cut 8-1/4" casing 50' below the coal and pull.
  - b. If unable to pull, contact NNE & DEP for approval to perf casing at coal depth
15. Use a work string to set expandable cement over the coal seams. Pump Class A or Class L cement and displace the cement plug.
16. Wait on Cement (WOC)
17. RIH to confirm cement top. Record. Set additional plug(s) if needed.
18. Top of cement should be above the coal seam.
19. Cement to surface with Class A or L.
20. Cut all casing 36 inches below GL. Install a monument to WV state requirements.
  - a. API number welded with a minimum of 1/2" in height. Use a minimum of 6" diameter metal pipe cemented 10' in the well and reaching 30" above ground level.
21. Rig down and move out equipment and reclaim location to WV State requirements after 70% vegetative growth is observed.

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IPANTS:

DATE: JAN 28 1981

BUYER-SELLER CODE

OPERATOR: Pennzoil Company

014730

PURCHASER: Not Dedicated

4706100483P

SR:

WELL DETERMINATION FILE NUMBER

0-08-27-108-061-0493

Qualifies J.E. Hargrey

Above File Number on all Communications Relating to Determination of this Well

CHECK EACH ITEM AS COMPLETE OR NOTE WHAT IS MISSING

- NO. 1. FERC -121  Items not completed - Line No. \_\_\_\_\_
- 2. IV-1 Agent  James A. Crews
- 3. IV-2 Well Permit \_\_\_\_\_
- 4. IV-6 Well Plat
- 5. IV-35 Well Record  Drilling  Deepening \_\_\_\_\_
- 6. IV-36 Gas-Oil Test:  Gas Only \_\_\_\_\_ Was Oil Produced? \_\_\_\_\_ Ratio \_\_\_\_\_
- 7. IV-39 Annual Production \_\_\_\_\_ years
- 8. IV-40 90 day Production 91 Days off line: \_\_\_\_\_
- 9. IV-48 Application for certification. Complete?
- 17. IV Form 51 - 52 - 53 - 54 - 55 - 56 - 57 - 58 Complete?  Affidavit Signed
- 28. Other: Survey \_\_\_\_\_ Logs \_\_\_\_\_ Geological Charts \_\_\_\_\_  
Structure Map \_\_\_\_\_ 1: 4000 Map \_\_\_\_\_ Well Tabulations \_\_\_\_\_  
Gas Analyses \_\_\_\_\_

(5) Date commenced: 1-24-76 Date completed: 3-16-1896 Deepened \_\_\_\_\_

(5) Production Depth: 1991 - 2091

(5) Production Formation: Big Enjun

(5) Final Open Flow: N/A

(5) After Frac. R. P. N/A

(6) Other Gas Test: \_\_\_\_\_

(7) Avg. Daily Gas from Annual Production:  $\frac{262}{365} = 7.2 \text{ mcf}$ , oil  $\frac{246}{365} = 0.6 \text{ BBL}$

(8) Avg. Daily Gas from 90-day ending w/1-120 days  $\frac{61}{91} = 6.7 \text{ mcf}$ , oil  $\frac{29}{91} = 0.3 \text{ BBL}$

(8) Line Pressure: N/A PSIG from Daily Report

(5) Oil Production: N/O From Completion Report.

-17. Does lease inventory indicate enhanced recovery being done N/O

-17. Is affidavit signed?  Notarized?

Does official well record with the Department confirm the submitted information? N/O

Additional information \_\_\_\_\_ Does computer program confirm? \_\_\_\_\_

Is Determination Objected to \_\_\_\_\_ By Whom? \_\_\_\_\_

TS

4706100483P

No. 0420

Acres 333

Farm Name Adg, D. J.

Well No. 12

|                   |                              |                |
|-------------------|------------------------------|----------------|
| S. E. W.          | Location Made                | Purchased From |
| Dist. Clay        | Rig Completed Jun. 10, 1896  | Date Purchased |
| County Monongalia | Drig Commenced Jan. 24, 1896 | Sold To        |
| State West Va.    | Drig Completed Mar. 16, 1896 | Date Sold      |
| Rights Owned By   | Drig Contractor              | Date Abandoned |

| Casing Head Lowered 12" Feb. 1941 |           |                 |                        | By M.C. West Foreman |          |                            |                           |                      |          |
|-----------------------------------|-----------|-----------------|------------------------|----------------------|----------|----------------------------|---------------------------|----------------------|----------|
| Kind                              | Top       | Bottom          | Steel Line Measurement | Tests                | Size     | Bottom Casing (Steel Line) | Put In Well (Tally Meas.) | Put In (Tally Meas.) | Cement   |
| Conductor                         | 27        |                 |                        |                      | 10"      |                            | 720'                      | 720'                 | Date     |
| Sh. Coal                          | 695'      |                 |                        |                      | 8 1/2"   |                            | 847'                      |                      | Size Cg. |
| Drig Injun                        | 1998'     |                 |                        |                      | 6, 5/8"  |                            | 1715'                     |                      | Top "    |
| St. pay-Good                      | 2091'     |                 |                        |                      | 5, 3/16" |                            | 265'                      |                      | Bot. "   |
| Stal depth                        |           | 2117'           |                        |                      | 5 7/8"   |                            | 1721'                     |                      |          |
| (Used gas 46 days)                |           |                 |                        |                      |          |                            |                           |                      |          |
| PACKERS AND SHOES                 |           |                 |                        |                      |          |                            |                           |                      |          |
| Kind                              |           | Size            |                        | Depth Set            |          | Date Set                   |                           |                      |          |
| Packer Bottom Hole                |           | 5 7/8 x 6 1/8"  |                        |                      |          | 9-12-35                    |                           |                      |          |
| TORPEDO RECORD                    |           |                 |                        |                      |          |                            |                           |                      |          |
| Date                              | No. Qts.  | Size Shell      | Top Shot               | Bottom               | Resu     |                            |                           |                      |          |
| 2/30/1903                         | - 10      | 3 1/2" Al       | - 2091                 |                      |          |                            |                           |                      |          |
| 7/22/1906                         | - 20      |                 |                        |                      |          |                            |                           |                      |          |
| 10/5/1906                         | - 40      |                 |                        |                      |          |                            |                           |                      |          |
| 6/29/1909                         | - 40      | 3-20ct. shells  | 4 1/2" Al              | 2090'                |          |                            |                           |                      |          |
| top 1st. shell                    | 2090'     | Top 2nd. shell  | 2099                   |                      |          |                            |                           |                      |          |
| 8/10-1932                         | 20        | 4 1/2" 7        | 2090                   | 2097                 |          |                            |                           |                      |          |
| DRILLING DEEPER                   |           |                 |                        |                      |          |                            |                           |                      |          |
| Commenced                         | Completed | Original Depth  | Final Depth            | Contractor           |          |                            |                           |                      |          |
|                                   |           |                 |                        |                      |          |                            |                           |                      |          |
| ABANDONMENT RECORD                |           |                 |                        |                      |          |                            |                           |                      |          |
| Filled With                       | From      | To              | Size                   | Kind                 | Depth    |                            |                           |                      |          |
|                                   |           |                 |                        |                      |          |                            |                           |                      |          |
| Prod.                             | Sand      | * At Completion | * 30Days After         | *                    |          |                            |                           |                      |          |
|                                   |           |                 |                        |                      |          |                            |                           |                      |          |
| APPROVED                          |           |                 |                        |                      |          |                            |                           |                      |          |

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W. Va. Department of  
Environmental Protection  
Sup:

47-061-0483



Select County: (061) Monongalia Select datatypes: (Check All)
Enter Permit #: 480
[Get Data] [Reset]
Location Production Plugging
Owner/Completion Stratigraphy Sample
Pay/Show/Water Logs Btm Hole Loc

- Table Descriptions
County Code Translations
Permit Numbering Series
Usage Notes
Contact Information
Disclaimer
WV GGS Main
"Plugging-Plus"

WV Geological & Economic Survey:

Well: County = 061 Permit = 480 Link to all digital records for well

Report Time: Monday, July 24, 2023 11:53:44 AM

Location Information: View Map

Table with columns: API, COUNTY, PERMIT, TAX\_DISTRICT, QUAD\_75, QUAD\_15, LAT\_DD, LON\_DD, UTM\_E, UTM\_N

There is no Bottom Hole Location data for this well

Owner Information:

Table with columns: API, CMP\_DT, SUFFIX, STATUS, SURFACE\_OWNER, WELL\_NUM, CO\_NUM, LEASE, LEASE\_NUM, MINERAL\_OWN, OPERATOR\_AT\_COMPLETION, PROP\_VD, PROP\_TRGT\_FM, TFM\_EST\_PR

Completion Information:

Table with columns: API, CMP\_DT, SPUD\_DT, ELEV, DATUM, FIELD, DEEPEST\_FM, DEEPEST\_FMT, INITIAL\_CLASS, FINAL\_CLASS, TYPE, RIG, CMP\_MTHD, TVD, TMD, NEW\_FTG, KOD, G\_BEF, G\_AFT, O\_BEF, O\_AFT, NGL\_BEF

There is no Pay data for this well

Production Gas Information: (Volumes in Mcf) \* 2022 data for H6A wells only. Other wells are incomplete at this time.

Table with columns: API, PRODUCING\_OPERATOR, PRD\_YEAR, ANN\_GAS, JAN, FEB, MAR, APR, MAY, JUN, JUL, AUG, SEP, OCT, NOV, DCM

Production Oil Information: (Volumes in Bbl) \*\* some operators may have reported NGL under Oil \* 2022 data for H6A wells only. Other wells are incomplete at this time.

Table with columns: API, PRODUCING\_OPERATOR, PRD\_YEAR, ANN\_OIL, JAN, FEB, MAR, APR, MAY, JUN, JUL, AUG, SEP, OCT, NOV, DCM

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WV Department of Environmental Protection

Production NGL Information: (Volumes in Bbl) \*\* some operators may have reported NGL under Oil \* 2022 data for H6A wells only. Other wells are incomplete at this time.

Table with columns: API, PRODUCING\_OPERATOR, PRD\_YEAR, ANN\_NGL, JAN, FEB, MAR, APR, MAY, JUN, JUL, AUG, SEP, OCT, NOV, DCM

Production Water Information: (Volumes in Gallons) \* 2022 data for H6A wells only. Other wells are incomplete at this time.

Table with columns: API, PRODUCING\_OPERATOR, PRD\_YEAR, ANN\_WTR, JAN, FEB, MAR, APR, MAY, JUN, JUL, AUG, SEP, OCT, NOV, DCM

There is no Stratigraphy data for this well

Wireline (E-Log) Information:

\* There is no Scanned/Raster Log data for this well

\* There is no Digitized/LAS Log data for this well

\* There is no Scanned or Digital Logs available for download

There is no Plugging data for this well

There is no Sample data for this well

4706100480P

WW-4A  
Revised 6-07

1) Date: July 18, 2023  
2) Operator's Well Number  
DJ Eddy 9

3) API Well No.: 47 - 061 - 00480

STATE OF WEST VIRGINIA  
DEPARTMENT OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS  
NOTICE OF APPLICATION TO PLUG AND ABANDON A WELL

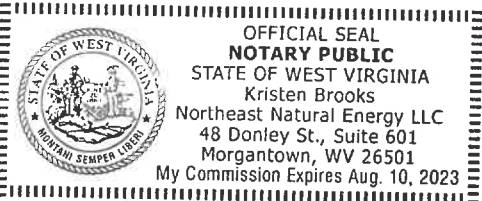
|   |                                    |
|---|------------------------------------|
| 4) Surface Owner(s) to be served:               | 5) (a) Coal Operator               |
| (a) Name Nancy Ann Cummins and James P. Cummins | Name _____                         |
| Address 36 Behlar Rd.                           | Address _____                      |
| Fairview, WV 26570                              | _____                              |
| (b) Name _____                                  | (b) Coal Owner(s) with Declaration |
| Address _____                                   | Name _____                         |
| _____   | Address _____                      |
| (c) Name _____                                  | Name _____                         |
| Address _____                                   | Address _____                      |
| _____   | _____                              |
| 6) Inspector Gayne Knitowski                    | (c) Coal Lessee with Declaration   |
| Address PO Box 108                              | Name _____                         |
| Gormaniana, WV 26720                            | Address _____                      |
| Telephone 304-546-8171                          | _____                              |

TO THE PERSONS NAMED ABOVE: You should have received this Form and the following documents:

- (1) The application to Plug and Abandon a Well on Form WW-4B, which sets out the parties involved in the work and describes the well its and the plugging work order; and
- (2) The plat (surveyor's map) showing the well location on Form WW-6.

The reason you received these documents is that you have rights regarding the application which are summarized in the instructions on the reverses side. However, you are not required to take any action at all.

Take notice that under Chapter 22-6 of the West Virginia Code, the undersigned well operator proposes to file or has filed this Notice and Application and accompanying documents for a permit to plug and abandon a well with the Chief of the Office of Oil and Gas, West Virginia Department of Environmental Protection, with respect to the well at the location described on the attached Application and depicted on the attached Form WW-6. Copies of this Notice, the Application, and the plat have been mailed by registered or certified mail or delivered by hand to the person(s) named above (or by publication in certain circumstances) on or before the day of mailing or delivery to the Chief.



Well Operator NNE Resources LLC  
 By: [Signature]  
 Its: Regulatory Manager  
 Address 707 Virginia St. E., Suite 1200  
 Charleston, WV 25301  
 Telephone 304-414-7060

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 Office Of Oil and Gas  
 JUL 26 2023  
 WV Department of  
 Environmental Protection

Subscribed and sworn before me this 18th day of July, 2023  
Kristen Brooks Notary Public  
My Commission Expires August 10, 2023

Oil and Gas Privacy Notice

The Office of Oil and Gas processes your personal information, such as name, address and phone number, as a 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 [depprivacyoffier@wv.gov](mailto:depprivacyoffier@wv.gov).

08/29/2023

4706100480P

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Fairview, WV 26570

OFFICIAL USE

7021 0350 0001 8660 8036

|  |        |
|--|--------|
| Certified Mail Fee   | \$4.35 |
| Extra Services & Fees (check box, add fee as appropriate)    | \$3.55 |
| <input type="checkbox"/> Return Receipt (hardcopy)           | \$0.00 |
| <input type="checkbox"/> Return Receipt (electronic)         | \$0.00 |
| <input type="checkbox"/> Certified Mail Restricted Delivery  | \$0.00 |
| <input type="checkbox"/> Adult Signature Required            | \$0.00 |
| <input type="checkbox"/> Adult Signature Restricted Delivery | \$0.00 |

PS Form 3800, April 2012  
0437 05  
Postmark Here  
07/20/2023

Postage \$1.14

Total Post \$9.04

Sent To Nancy Ann Cummins & James P. Cummins

Street and 3 Behlar Rd.

City, State Fairview, WV 26570

PS Form 3800, April 2012, PSN 7530-02-000-9000

08/29/2023



west virginia department of environmental protection

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

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

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

**IN THE MATTER OF A VARIANCE FROM )  
LEGISLATIVE RULE 35CSR4 ) ORDER NO. 2022-13  
SECTION 14.1. AND LEGISLATIVE RULE )  
35CSR8 SECTION 20.1, )  
RELATING TO THE CEMENTING )  
OF OIL AND GAS WELLS )**

**REPORT OF THE OFFICE**

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

**FINDINGS OF FACT**

1. On July 28, 2022, Diversified Gas & Oil Co. (DGO) submitted a variance request from Legislative Rule 35CSR4 for the use of API Class L cement in place of API Class A cement, relating to the plugging of conventional wells.
2. Laboratory analysis submitted by DGO on July 28, 2022, indicates API Class L cement is comparable to API Class A cement and thereby satisfies the requirements of the West Virginia Code.
3. Contemporaneously, the Chief of the Office of Oil and Gas also chose to consider a variance to Legislative Rule 35CSR8 Section 20.1., for the use of API Class L cement in place of API Class A cement, relating to the plugging of horizontal wells.

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Office Of Oil and Gas  
JUL 26 2023  
West Virginia Department of Environmental Protection

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

### CONCLUSIONS OF LAW

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

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

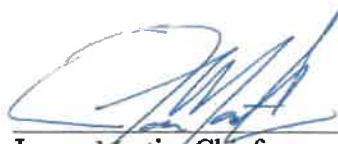
### ORDER

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

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

IN THE NAME OF THE STATE OF WEST VIRGINIA

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



James Martin, Chief  
Office of Oil and Gas

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WV Department of  
Environmental Protection

08/29/2023

WW-9  
(5/16)

API Number 47 - 061 - 00480  
Operator's Well No. DJ Eddy 9

STATE OF WEST VIRGINIA  
DEPARTMENT OF ENVIRONMENTAL PROTECTION  
OFFICE OF OIL AND GAS  
FLUIDS/ CUTTINGS DISPOSAL & RECLAMATION PLAN

Operator Name NNE Resources LLC OP Code 494511469

Watershed (HUC 10) Dunkard Creek Quadrangle Blacksville

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: \_\_\_\_\_

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

Proposed Disposal Method For Treated Pit Wastes:

- Land Application (if selected provide a completed form WW-9-GPP)
- Underground Injection ( UIC Permit Number See attachment )
- Reuse (at API Number See attachment )
- Off Site Disposal (Supply form WW-9 for disposal location)
- Other (Explain \_\_\_\_\_)

Will closed loop system be used? If so, describe: NA

Drilling medium anticipated for this well (vertical and horizontal)? Air, freshwater, oil based, etc. Freshwater/gel

-If oil based, what type? Synthetic, petroleum, etc. \_\_\_\_\_

Additives to be used in drilling medium? Bentonite

Drill cuttings disposal method? Leave in pit, landfill, removed offsite, etc. Removed offsite

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

-Landfill or offsite name/permit number? See attachment

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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 April 1, 2016, by the Office of Oil and Gas of the West Virginia Department of Environmental Protection. I understand that the provisions of the permit are enforceable by law. Violations of any term or condition of the general permit and/or other applicable law or regulation can lead to enforcement action.

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

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

Subscribed and sworn before me this 18th day of July, 2023, 20  
Kristen Brooks Notary

My commission expires August 10, 2023

OFFICIAL SEAL  
NOTARY PUBLIC  
STATE OF WEST VIRGINIA  
Kristen Brooks  
Northeast Natural Energy LLC  
48 Donley St., Suite 601  
Morgantown, WV 26501  
My Commission Expires Aug. 10, 2023  
**08/29/2023**



Proposed Revegetation Treatment: Acres Disturbed 1.5 Prevegetation pH TBD

Lime 2 Tons/acre or to correct to pH 7

Fertilizer type 19-19-19

Fertilizer amount 500 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        |
| Tertraploid Perennial Rye | 16       | Tertraploid 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, provide water volume, include dimensions (L, W, D) of the pit, and dimensions (L, W), and area in acres, of the land application area.

Photocopied section of involved 7.5' topographic sheet.

Plan Approved by: Gayne Kmitowski

Digitally signed by Gayne Kmitowski Date: 2023.07.24 09:22:21 -0400

Comments:

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WV Department of Environmental Protection

Title: Inspector Date: 7-24-2023

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 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 Sanitary Landfill (Noble Environmental) – Belle Vernon, PA (Permit # 100277)
- Chestnut Valley Landfill (Nobel Environmental) – McClellandtown, PA (Permit # 100419)
- Austin Master Services – Martins Ferry, OH (Permit # WF-2022-05)
- Belmont Solids Control LLC – Cadiz, OH (Permit # WF-2022-01)

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:

| UIC Well Name          | Owner/Operator                 | API No.       |
|------------------------|--------------------------------|---------------|
| K & H Disposal         | Central Environmental Services | 47-061-01689  |
| Dennison Disposal Well | Dennison Disposal              | 34-157-2-5507 |
| Nichols                | Tidal Logistics                | 34-167-2-3862 |
| Goff                   | Tidal Logistics                | 34-119-2-8776 |
| Clearwater 3           | Tidal Logistics                | 34-059-2-3986 |
| Bo                     | Tidal Logistics                | 34-059-2-4473 |
| Shields                | Tidal Logistics                | 34-059-2-4445 |
| Redbird #2             | Redbird Development, LLC       | 34-167-2-9731 |
| Redbird #4             | Redbird Development, LLC       | 34-167-2-9767 |
| Mills                  | Omega Drilling/FQ Energy       | 34-105-2-3619 |
| Dexter City            | Omega Drilling/FQ Energy       | 34-121-24037  |
| Ritchie                | Omega Drilling/FQ Energy       | 47-085-09721  |

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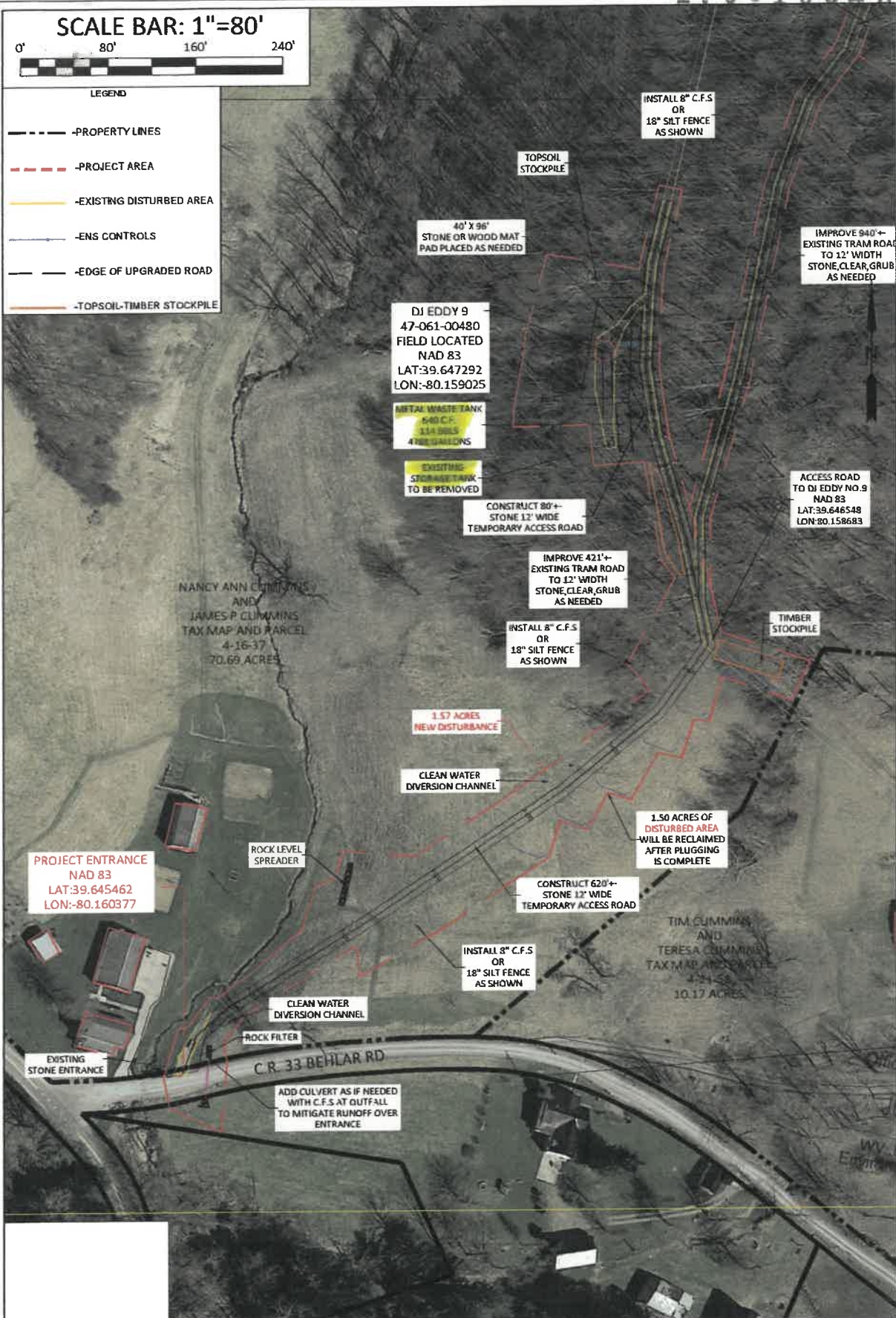
08/29/2023

SCALE BAR: 1"=80'



LEGEND

- - - - -PROPERTY LINES
- - - - -PROJECT AREA
- EXISTING DISTURBED AREA
- ENS CONTROLS
- EDGE OF UPGRADED ROAD
- TOPSOIL-TIMBER STOCKPILE



INSTALL 8" C.F.S OR 18" SILT FENCE AS SHOWN

TOPSOIL STOCKPILE

40' X 96' STONE OR WOOD MAT PAD PLACED AS NEEDED

IMPROVE 940'+- EXISTING TRAM ROAD TO 12' WIDTH STONE,CLEAR,GRUB AS NEEDED

DJ EDDY 9  
47-061-00480  
FIELD LOCATED  
NAD 83  
LAT:-39.647292  
LON:-80.159025

METAL WASTE TANK  
640 C.F.  
334 DRUMS  
4788 GALLONS

EXISTING STORAGE TANK TO BE REMOVED

CONSTRUCT 80'+- STONE 12' WIDE TEMPORARY ACCESS ROAD

ACCESS ROAD TO DJ EDDY NO.9  
NAD 83  
LAT:-39.646548  
LON:-80.158683

IMPROVE 421'+- EXISTING TRAM ROAD TO 12' WIDTH STONE,CLEAR,GRUB AS NEEDED

NANCY ANN CUMMINS AND JAMES P. CUMMINS TAX MAP AND PARCEL 4-16-37 70.69 ACRES

INSTALL 8" C.F.S OR 18" SILT FENCE AS SHOWN

TIMBER STOCKPILE

1.57 ACRES NEW DISTURBANCE

CLEAN WATER DIVERSION CHANNEL

1.50 ACRES OF DISTURBED AREA WILL BE RECLAIMED AFTER PLUGGING IS COMPLETE

PROJECT ENTRANCE  
NAD 83  
LAT:-39.645462  
LON:-80.160377

ROCK LEVEL SPREADER

CONSTRUCT 620'+- STONE 12' WIDE TEMPORARY ACCESS ROAD

TIM CUMMINS AND TERESA CUMMINS TAX MAP AND PARCEL 4-14-38 10.17 ACRES

INSTALL 8" C.F.S OR 18" SILT FENCE AS SHOWN

CLEAN WATER DIVERSION CHANNEL

ROCK FILTER

EXISTING STONE ENTRANCE

C.R. 33 BEHLAR RD

ADD CULVERT AS IF NEEDED WITH C.F.S. AT OUTFALL TO MITIGATE RUNOFF OVER ENTRANCE

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JUL 26 2023

WV Department of Environmental Protection

DATE:  
MARCH 2020  
DJ EDDY NO. 9  
SHALLOW WELL  
47-061-00477  
CLAY DISTRICT,  
MONONGALIA  
COUNTY, WV

WW-8 REC PLAN  
DJ EDDY NO.9

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

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

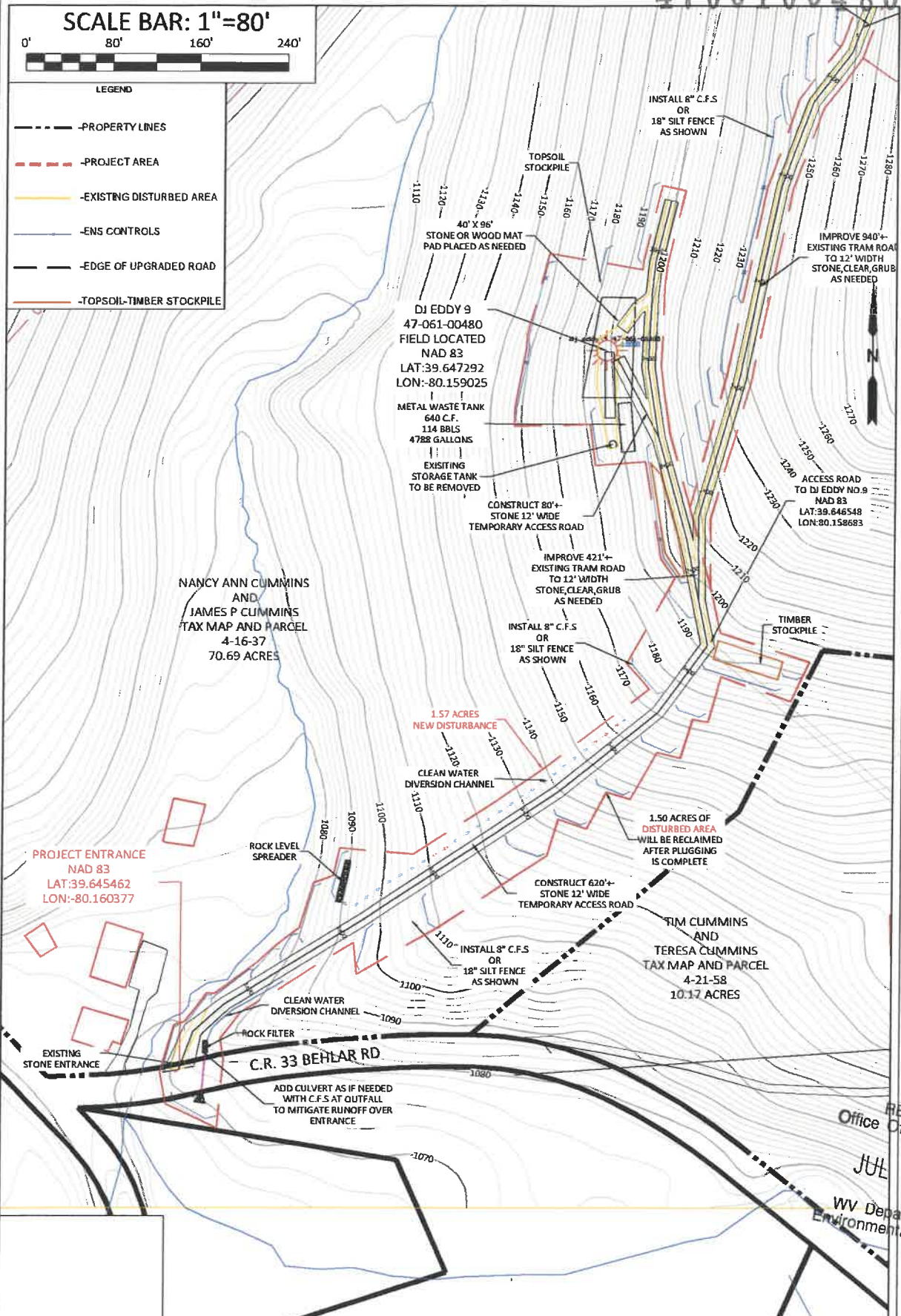
Southpointe, PA 15317 Phone: 724-746-1055

4706100480 P

SCALE BAR: 1"=80'



- LEGEND
- - - - -PROPERTY LINES
  - - - - -PROJECT AREA
  - EXISTING DISTURBED AREA
  - ENS CONTROLS
  - EDGE OF UPGRADED ROAD
  - TOPSOIL-TIMBER STOCKPILE



NANCY ANN CUMMINS AND JAMES P CUMMINS TAX MAP AND PARCEL 4-16-37 70.69 ACRES

DJ EDDY 9 47-061-00480 FIELD LOCATED NAD 83 LAT:39.647292 LON:-80.159025

METAL WASTE TANK 640 C.F. 114 BBLs 4788 GALLONS EXISTING STORAGE TANK TO BE REMOVED

PROJECT ENTRANCE NAD 83 LAT:39.645462 LON:-80.160377

C.R. 33 BEHLAR RD

INSTALL 8" C.F.S. OR 18" SILT FENCE AS SHOWN

TOPSOIL STOCKPILE

40' X 96' STONE OR WOOD MAT PAD PLACED AS NEEDED

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1.50 ACRES OF DISTURBED AREA WILL BE RECLAIMED AFTER PLUGGING IS COMPLETE

CONSTRUCT 620'+ STONE 12' WIDE TEMPORARY ACCESS ROAD

TIM CUMMINS AND TERESA CUMMINS TAX MAP AND PARCEL 4-21-58 10.17 ACRES

INSTALL 8" C.F.S. OR 18" SILT FENCE AS SHOWN

CLEAN WATER DIVERSION CHANNEL

ROCK FILTER

EXISTING STONE ENTRANCE

ADD CULVERT AS IF NEEDED WITH C.F.S. AT OUTFALL TO MITIGATE RUNOFF OVER ENTRANCE

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JUL 26 2020

WV Department of Environmental Protection

DATE: MARCH 2020  
DJ EDDY NO. 9  
SHALLOW WELL  
47-061-00477  
CLAY DISTRICT  
MONONGALIA COUNTY, WV

WW-8 REC PLAN DJ EDDY NO.9

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

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

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SHEET 1 OF 1

08/29/2023

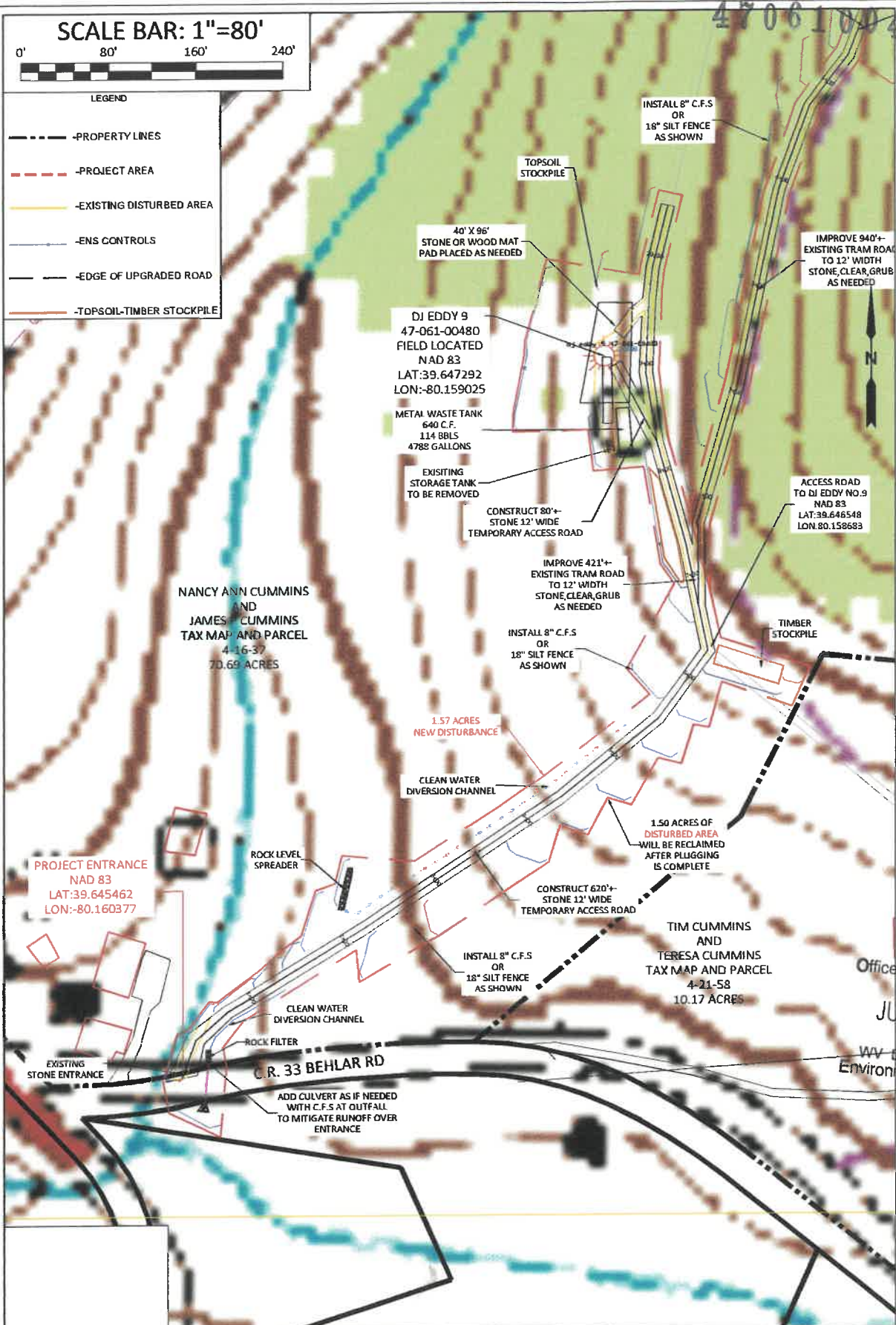
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SCALE BAR: 1"=80'



LEGEND

- PROPERTY LINES
- PROJECT AREA
- EXISTING DISTURBED AREA
- EENS CONTROLS
- EDGE OF UPGRADED ROAD
- TOPSOIL-TIMBER STOCKPILE



NANCY ANN CUMMINS  
AND  
JAMES CUMMINS  
TAX MAP AND PARCEL  
4-16-37  
70.69 ACRES

DJ EDDY 9  
47-061-00480  
FIELD LOCATED  
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LAT:39.647292  
LON:-80.159025

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TIM CUMMINS  
AND  
TERESA CUMMINS  
TAX MAP AND PARCEL  
4-21-58  
10.17 ACRES

PROJECT ENTRANCE  
NAD 83  
LAT:39.645462  
LON:-80.160377

ROCK LEVEL  
SPREADER

CLEAN WATER  
DIVERSION CHANNEL

ROCK FILTER

C.R. 33 BEHLAR RD

ADD CULVERT AS IF NEEDED  
WITH C.F.S AT OUTFALL  
TO MITIGATE RUNOFF OVER  
ENTRANCE

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JUL 26 2023

WV Department of  
Environmental Protection

DATE:  
MARCH 2020  
DJ EDDY NO. 9  
SHALLOW WELL  
47-061-00477  
CLAY DISTRICT,  
SPENCER TOWNSHIP,  
MASON COUNTY, WV

WW-8 REC PLAN  
DJ EDDY NO.9

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

BOORD, BENCHEK and ASSOC., INC.  
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and Mining Services  
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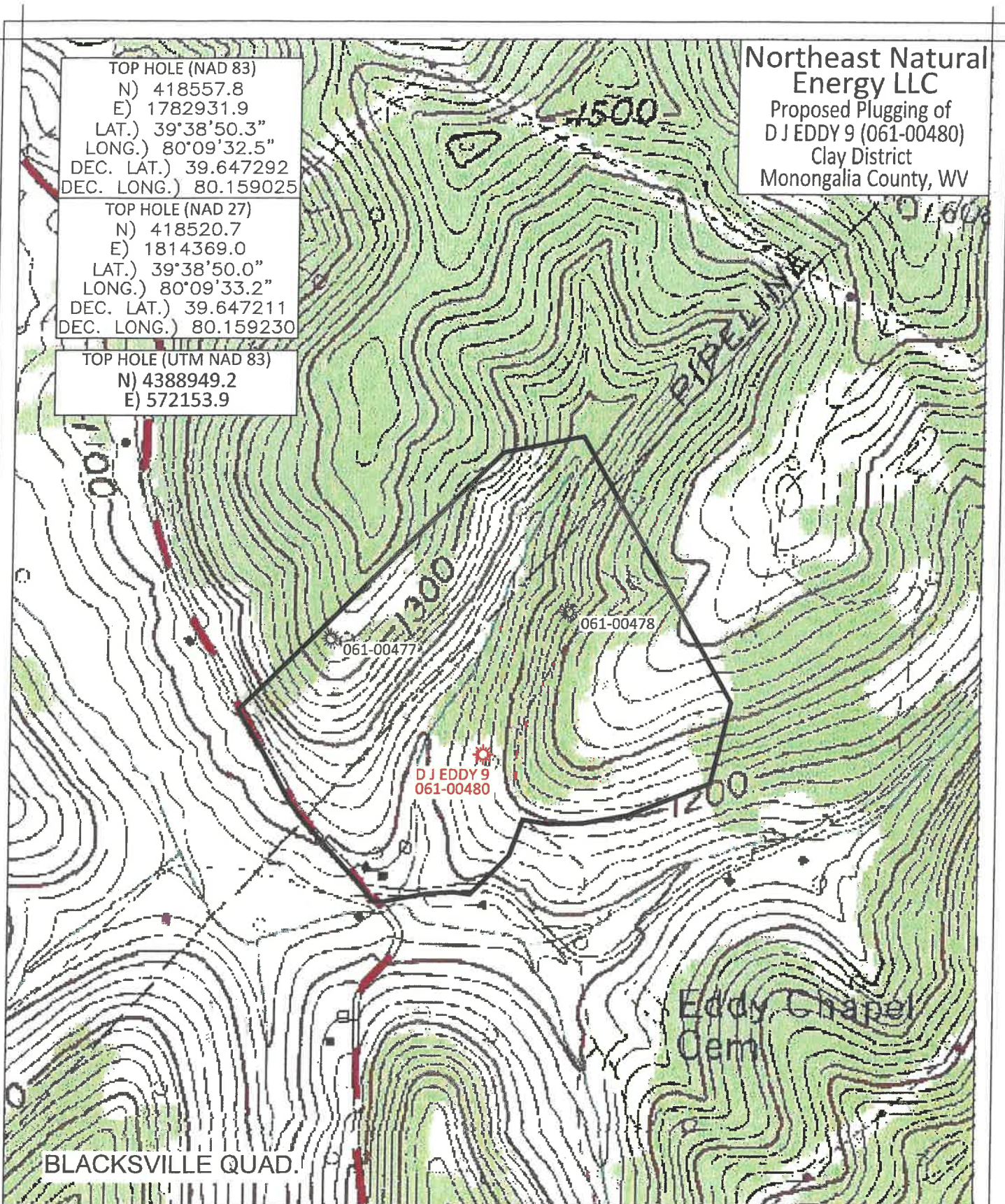
08/29/2023

Northeast Natural Energy LLC  
Proposed Plugging of  
D J EDDY 9 (061-00480)  
Clay District  
Monongalia County, WV

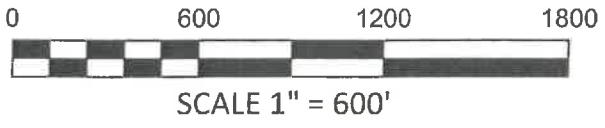
TOP HOLE (NAD 83)  
N) 418557.8  
E) 1782931.9  
LAT.) 39°38'50.3"  
LONG.) 80°09'32.5"  
DEC. LAT.) 39.647292  
DEC. LONG.) 80.159025

TOP HOLE (NAD 27)  
N) 418520.7  
E) 1814369.0  
LAT.) 39°38'50.0"  
LONG.) 80°09'33.2"  
DEC. LAT.) 39.647211  
DEC. LONG.) 80.159230

TOP HOLE (UTM NAD 83)  
N) 4388949.2  
E) 572153.9



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



MAY 22, 2023

08/29/2023

WW-7  
8-30-06



West Virginia Department of Environmental Protection  
Office of Oil and Gas

**WELL LOCATION FORM: GPS**

API: 47-061-00480 WELL NO.: 9

FARM NAME: DJ Eddy

RESPONSIBLE PARTY NAME: NNE Resources LLC

COUNTY: Monongalia DISTRICT: Clay

QUADRANGLE: Blacksville

SURFACE OWNER: Nancy Ann Cummins & James P. Cummins

ROYALTY OWNER: Northeast Natural Energy LLC

UTM GPS NORTHING: 4388949.2

UTM GPS EASTING: 572153.9 GPS ELEVATION: 1,193'

The Responsible Party named above has chosen to submit GPS coordinates in lieu of preparing a new well location plat for a plugging permit or assigned API number on the above well. The Office of Oil and Gas will not accept GPS coordinates that do not meet the following requirements:

1. Datum: NAD 1983, Zone: 17 North, Coordinate Units: meters, Altitude: height above mean sea level (MSL) – meters.
2. Accuracy to Datum – 3.05 meters
3. Data Collection Method:

Survey grade GPS \_\_\_\_\_: Post Processed Differential \_\_\_\_\_

Real-Time Differential \_\_\_\_\_

Mapping Grade GPS X: Post Processed Differential \_\_\_\_\_

Real-Time Differential X

4. **Letter size copy of the topography map showing the well location.**

I the undersigned, hereby certify this data 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 Office of Oil and Gas.

Hall Meg  
Signature

Regulatory Manager  
Title

7/18/23  
Date

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