



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

Austin Caperton, Cabinet Secretary
www.dep.wv.gov

Monday, August 24, 2020
WELL WORK PLUGGING PERMIT
Vertical Plugging

NNE RESOURCES LLC
707 VIRGINIA STREET EAST, SUITE 1200

CHARLESTON, WV 25301

Re: Permit approval for MOORE & EDDY 4
47-061-00505-00-00

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: MOORE & EDDY 4
Farm Name: MOORE & EDDY
U.S. WELL NUMBER: 47-061-00505-00-00
Vertical Plugging
Date Issued: 8/24/2020

I

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

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. This well is under a consent order and must be plugged under the terms of that agreement.

WW-4B
Rev. 2/01

- 1) Date March 27, 2020
- 2) Operator's
Well No. Moore & Eddy 4
- 3) API Well No. 47-061 - 00505 P

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 1,405' Watershed Dunkard Creek
District Clay County Monongalia Quadrangle Blacksville

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

- 8) Oil and Gas Inspector to be notified Name Gayne Knitowski
Address P.O. 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:

Please see attached Plugging Procedure

*WELL PRODUCES FROM BIG INJUN ≈ 2248', WELL WAS SHOT IN
BIG INJUN & NOT DRILLED THROUGH BIG INJUN.*

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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 Digitally signed by Gayne Knitowski
Date: 2020.04.02 10:38:40 -04'00' Date _____



northeast

NATURAL ENERGY

**Moore & Eddy-4
Monongalia County, WV
API Number: 4706100505
Plugging Procedure**

Discussion

Approval is requested to perform the initial plugging on the Moore & Eddy 4 Well. The Moore & Eddy 4 is a vertical well located in Monongalia County, WV. The Moore & Eddy 4 was drilled to a depth of 2,273' on December 16, 1892. Production from this well has been very low for numerous years. The Moore & Eddy 4 is recommended to be plugged and abandoned.

Procedure

See attached procedure.

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WELL DATA

Location (Surface)	39.6488928, -80.1550874
TD*	2,347'
PBTD	NA
Packer	NA
Marker Joint	NA

CASING AND TUBULAR DATA

STRING	SIZE	WEIGHT/GRADE	DEPTH	THREAD	TOC
Conductor	10"	N/A	900'	N/A	N/A
Surface	8-1/4"	N/A	1771' 71'	N/A	N/A
Intermediate	6-5/8"	N/A	1925'	N/A	N/A
Production	5-3/16"	N/A	270'??	N/A	N/A

Log has to be off

CAPACITIES

SIZE	WEIGHT	CAPACITY (GAL/FT.)	CAPACITY (BBL/FT.)
10**	N/A	4.192	0.0998
8 1/4**	N/A	2.738	0.0652
6 5/8"	N/A	1.536	0.0365
5 3/16**	N/A	1.038	0.0247
2 3/8"	4.7#	0.16239	0.00387

SIZE	WEIGHT	CAPACITY (CU FT/FT.)	CAPACITY (BBL/FT.)
10**	N/A	0.5603	0.0998
8 1/4**	N/A	0.3659	0.0652
6 5/8"	N/A	0.2052	0.0365
5 3/16**	N/A	0.1387	0.0247
2 3/8"	4.7#	0.02171	0.00387

* The asterisks represent sizes where estimates were used to produce the capacity data. For the 10" casing the capacity of a 35.75#/ft 10 3/4" casing was used. For the 8 1/4" casing capacities a 20#/ft 8 5/8" casing was used. For the 5 3/16" casing capacities a 13#/ft 5 1/2" casing was used.

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WELLHEAD EQUIPMENT

COMPONENT	SIZE & RATING
Manufacturer	N/A
Tubing Spool	N/A
Casing Spool	N/A
Bradenhead	N/A

DRIVING DIRECTIONS**From Morgantown:**

Travel on US-19 N to Star City

Continue on US-19 N for 3-4 miles

Turn Left onto Route 7

From Route 7 turn onto Pedlar Run Road for 3.2 miles.

Then stay right on Pedlar Run Road .Look for entrance on the right.

SCOPE OF OPERATION

1. Safety is the highest priority. Control costs and avoid unnecessary expenditures.
2. Attempt to cut or pull all recoverable casing.
3. TIH with 1 1/2" tubing to estimated TD of 2,322'. ORIGINAL DEPTH 2273'
4. Pump cement and gel plugs per state requirements.
5. Bury and plat a well monument with WV State API number.

PITTSBURGH COAL @ 865'

PROCEDURE

Safety is the number one priority. Well site safety meetings will be held before each major operation

- 1) MIRU construction equipment and remove any tanks, separators, well lines, meter runs, etc.
- 2) MIRU service rig & needed BOP equipment
- 3) TOOH strapping rods and or tubing
- 4) Log to bottom of hole to double check depth
- 5) TIH strapping tubing to 2200'. AND SPOT GEL.
- 6) Set BHP ~ 20-30 sks of Class A cement (150-300' cement plug)
- 7) TOOH with tubing/WOC
- 8) Log TOC
- 9) Cut casing and pull 1.5 times weight
- 10) Pull all casing strapping and laying down
- 11) TIH w/tubing to set cement plug
- 12) Set cement plug (~80 sks 600')
- 13) Run log to find TOC
- 14) TIH with tubing to set plug
- 15) Cement to ~400'
- 16) TIH tag cement
- 17) Cement to surface
- 18) Cut all casing 36 inches below GL. Install a monument to WV state requirements
- 19) RDMO all service equipment providers and reclaim location to WV State requirements

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Gayne
Knitowski

Digitally signed by
Gayne Knitowski
Date: 2020.04.02
10:38:06 -04'00'

PERSONNEL / PHONE LIST

Production Manager

John Landis

Office: (304) 212-0434

WV State Inspector

Gayne Knitowski

Office: (304) 241-7112

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SOUTH PENN OIL COMPANY - COMPLETION

SERIAL NO. _____ FARM Neefe & Eddy WELL NO. _____
 ELEVATION _____ N. 13-14 E. 26
 LEASE NO. _____ ACRES 79
 WATERS OF Jakes Run
 DISTRICT Clay COUNTY Monongalia STATE W. Va.
 DRILLING COMMENCED No date COMPLETED 12/16/1892 DEPTH 2273

SANDS	TOP	BOTTOM	Elev. Top	CASING USED
Pen. Coal & Shale	865			10" 900
Big Injun	2160			8" 793
1st pay	2248			6 5/8" 1925
				5 3/16" 270

INITIAL PROD. 200 started at SAND Big Injun DEPTH 2248

GAS TEST No

SHOT 8 QUANTS 3 to 40

REMARKS (Not drilled through Big Injun)

REPORTED BY [Signature] ABANDONED

PARTICIPANTS:

DATE: JAN 28 1981

BUYER-SELLER CODE

WELL OPERATOR:

Pennzoil Company

014730

FIRST PURCHASER:

Not Dedicated

OTHER:

W. Va. Department of Mines, Oil & Gas Division

WELL DETERMINATION FILE NUMBER

90-08-27-108-061-0505

Qualified J. H. Huggins

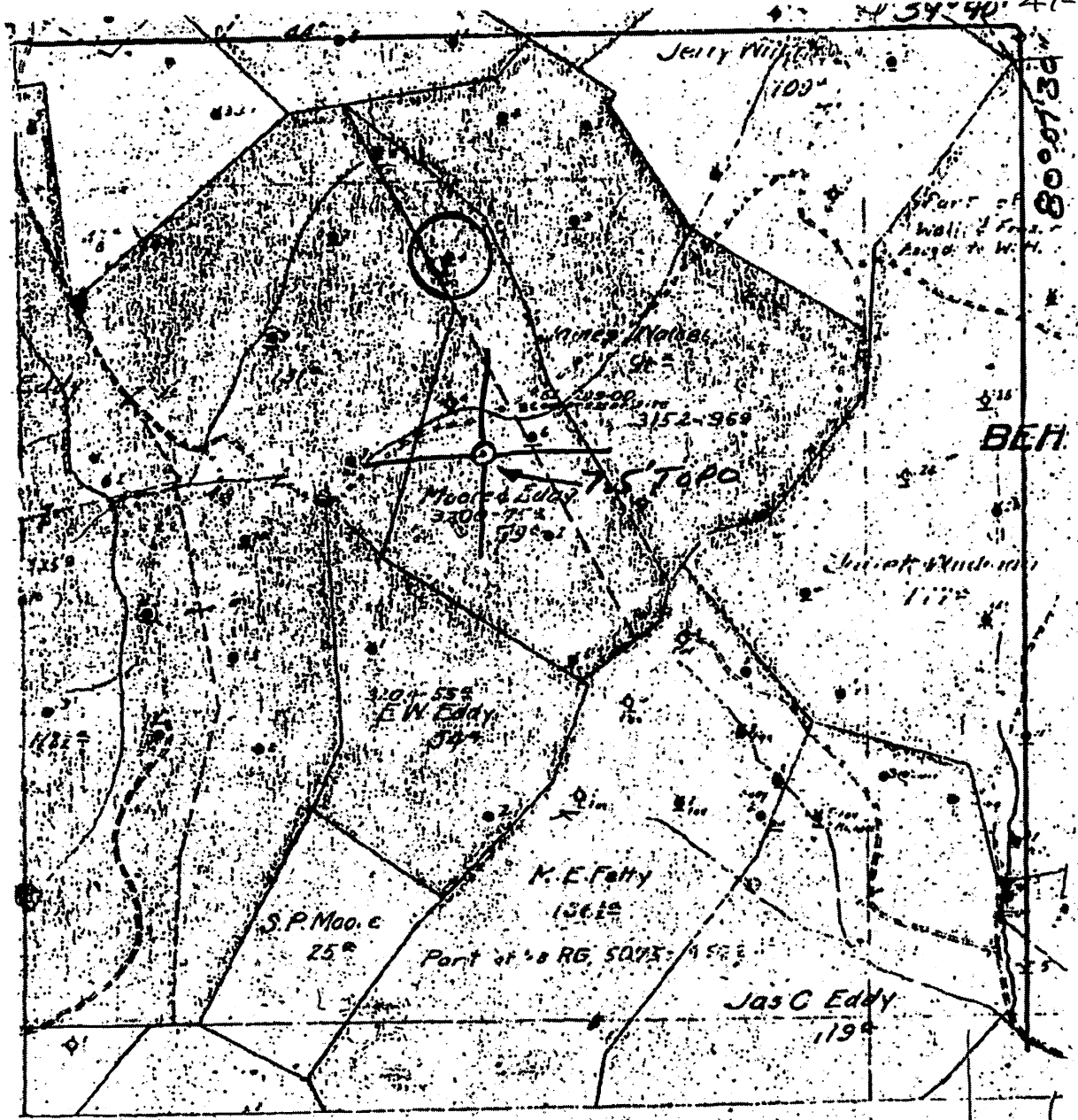
Use Above File Number on all Communications Relating to Determination of this Well

CHECK EACH ITEM AS COMPLETE OR NOTE WHAT IS MISSING

ITEM 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: N/A Date completed 12-16-1992 Deepened _____
- (5) Production Depth: 2160-2248
- (5) Production Formation: Big Injion
- (5) Final Open Flow: N/A
- (5) After Frac. R. P. N/A
- (6) Other Gas Test: _____
- (7) Avg. Daily Gas from Annual Production: $\frac{2629}{365} = 7.2$ MCF, oil $\frac{253}{365} = 0.6$ BBL
- (8) Avg. Daily Gas from 90-day ending w/1-120 days: $\frac{418}{91} = 4.6$ MCF, oil $\frac{41}{91} = 0.6$ BBL
- (8) Line Pressure: N/A PSIG from Daily Report
- (5) Oil Production: NO From Completion Report
- 17. Does lease inventory indicate enhanced recovery being done NO
- 17. Is affidavit signed? Notarized?
- Does official well record with the Department confirm the submitted information? NO
- Additional information _____ Does computer program confirm? _____
- Determination Objected to _____ By Whom? _____

TS



(+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS
 FORM IV-B
 (8-78)



DATE 1-24-77
 OPERATOR'S WELL NO. 4
 API WELL NO. 47-061-0585
 STATE COUNTY PERMIT

N72E N13 E26

STATE OF WEST VIRGINIA
 DEPARTMENT OF MINES
 OIL AND GAS DIVISION

WELL TYPE: OIL GAS LIQUID INJECTION WASTE DISPOSAL
 (IF "GAS", PRODUCTION STORAGE DEEP SHALLOW
 LOCATION: ELEVATION _____ WATER SHED JACKS RUN
 DISTRICT CLAY COUNTY MONONGALIA
 QUADRANGLE BLACKSVILLE 7.5'
 SURFACE OWNER _____ ACREAGE _____
 OIL & GAS ROYALTY OWNER _____ LEASE NO. _____ LEASE ACREAGE _____
 PROPOSED WORK: DRILL CONVERT DRILL DEEPER REDRILL FRACTURE OR
 STIMULATE PLUS OFF OLD FORMATION PERFORATE NEW
 FORMATION OTHER PHYSICAL CHANGE IN WELL (SPECIFY) _____

PLUG AND ABANDON CLEAN OUT AND REPLUS
 TARGET FORMATION _____ ESTIMATED DEPTH _____
 WELL OPERATOR Pennzoil Company DESIGNATED AGENT James A. Crews
 ADDRESS P. O. Box 1588 ADDRESS P. O. Box 1588
Parkersburg, WV 26101 Parkersburg, WV 26101

MOORE & EDDY - 4

WW-4A
Revised 6-07

1) Date: 3/27/2020
2) Operator's Well Number
Moore & Eddy 4

3) API Well No.: 47 - 061 - 00505

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

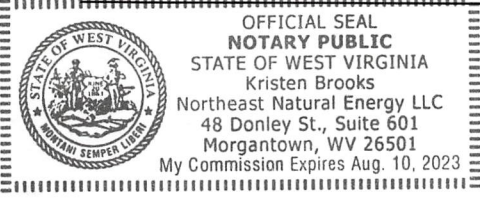
4) Surface Owner(s) to be served:	5) (a)	Coal Owner (Pittsburgh Seam)
(a) Name <u>See Attached</u>	Name <u>Consol Mining Company LLC</u>	
Address _____	Address <u>1000 Consol Energy Drive</u>	
	<u>Canonsburg, PA 15317</u>	
(b) Name _____	(b) Coal Owner(s) with Declaration	
Address _____	Name _____	
	Address _____	
(c) Name _____	Name _____	
Address _____	Address _____	
6) Inspector <u>Gayne Knitowski</u>	(c) Coal Lessee with Declaration	
Address <u>P.O. Box 108</u>	Name _____	
<u>Gormanian, WV 26720</u>	Address _____	
Telephone <u>304-546-8171</u>		

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: Hollie Medley
 Its: Regulatory Manager
 Address 48 Donley St., Suite 601
Morgantown, WV 26501
 Telephone 304.212.0422

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APR 06 2020

Subscribed and sworn before me this 27th day of March, 2020
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 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 depprivacyofficer@wv.gov.

47-061-00505P

Moore & Eddy 4 – API 47-061-00505

Moore & Eddy 5 – API 47-061-00506

Plugging Application Notice

7017 1450 0001 6438 7662

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For delivery information, visit our website at www.usps.com ®.	
FAIRMONT, WV 26554	
OFFICIAL USE	
Certified Mail Fee	\$3.55
\$	\$2.85
Extra Services & Fees (check box, add fee as appropriate)	
<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
Postage	\$1.80
\$	\$8.20
Total Postage and Fees	
\$	\$8.20
Sent To	
Street and Apt. No., or PO Box No.	
Mr. David P. Walker	
811 Vermont Ave.	
Fairmont, WV 26554	
City, State, ZIP+4®	
PS Form 3800, April 2015 PSN 7530-02-000-9047 See Reverse for Instructions	

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Moore & Eddy 4 - API 47-061-00505

Moore & Eddy 5 - API 47-061-00506

Plugging Application Notice

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Certified Mail Fee	\$3.55
\$	\$2.85
Extra Services & Fees (check box, add fee as appropriate)	
<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
Postage	\$1.80
\$	\$8.20
Total Postage and Fees	
\$	\$8.20
Sent To	
Ms. Nancy Facemire	
Street and Apt. No., or PO Box No. 920 Coleman Avenue	
City, State, ZIP+4® Fairmont, WV 26554	
PS Form 3800, April 2015 PSN 7530-02-000-9047 See Reverse for Instructions	

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47-061-00505 P

Moore & Eddy 4 - API 47-061-00505

Moore & Eddy 5 - API 47-061-00506

Plugging Application Notice

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FULLERTON, CA 92832	
OFFICIAL USE	
Certified Mail Fee	\$3.55
\$	\$7.85
Extra Services & Fees (check box, add fee as appropriate)	
<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
Postage	\$1.80
\$	\$3.20
Total Postage and Fees	
\$	\$3.20
Sent To	
Ms. Mary H. Walker	
Street and Apt. No., or PO Box No. 1611 S. Pomona D-11	
City, State, ZIP+4® Fullerton, CA 92832	
PS Form 3800, April 2015 PSN 7530-02-000-9047 See Reverse for Instructions	

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Moore & Eddy 4 – API 47-061-00505

Moore & Eddy 5 – API 47-061-00506

Plugging Application Notice

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For delivery information, visit our website at www.usps.com ®. FAIRVIEW, WV 26570	
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Certified Mail Fee \$3.55 \$2.85	0337 11
Extra Services & Fees (check box, add fee as appropriate) <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	Postmark Here
Postage \$1.80	03/27/2020
Total Postage and Fees \$8.20	
Sent To Ms. Joyce Bennett Street and Apt. No., or PO Box No. 1790 Jakes Run Road City, State, ZIP+4® Fairview, WV 26570	
PS Form 3800, April 2015 PSN 7530-02-000-9047 See Reverse for Instructions	

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Moore & Eddy 4 - API 47-061-00505

Moore & Eddy 5 - API 47-061-00506

Plugging Application Notice

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CANONSBURG, PA 15317	
Certified Mail Fee	\$3.55
Extra Services & Fees (check box, add fee if appropriate)	\$2.85
<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
Postage	\$1.80
Total Postage and Fees	\$8.20
Sent To	Consol Mining Company LLC
Street and Apt. No., or PO	1000 Consol Energy Drive
City, State, ZIP+4®	Canonsburg, PA 15317
PS Form 3800, April 2015 PSN 7530-02-000-9047 See Reverse for Instructions	

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Moore & Eddy 5
WW-4A Attachment

Pad – Surface Ownership

David P. Walker
811 Vermont Ave.
Fairmont, WV 26554

Nancy E. Facemire
920 Coleman Ave.
Fairmont, WV 26554

Access Road – Surface Ownership

Mary H. Walker
1611 S. Pomona D-11
Fullerton, CA 92832

Joyce Bennett
1790 Jakes Run Road
Fairview, WV, 26570

David P. Walker
811 Vermont Ave.
Fairmont, WV 26554

Nancy E. Facemire
920 Coleman Ave.
Fairmont, WV 26554

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47-061-00505 P

WW-9
(5/16)

API Number 47 - 061 - 00505
Operator's Well No. Moore & Eddy 4

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
ANY WELL EFFLUENT MUST BE CONTAINED IN TANKS BEFORE DISPOSING OFF SITE. JMM

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 attached)
- Reuse (at API Number see attached)
- Off Site Disposal (Supply form WW-9 for disposal location)
- Other (Explain see attached)

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. NA

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

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

APR 06 2020

WV Department of Environmental Protection

Subscribed and sworn before me this 27th day of March, 2020, 20_____
Kristen Brooks

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

My commission expires August 10, 2023

Form WW-9

Operator's Well No. Moore & Eddy 4

Proposed Revegetation Treatment: Acres Disturbed 0.20 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 Knitowski Digitally signed by Gayne Knitowski Date: 2020.04.02 10:33:54 -04'00'

Comments: _____

Relaim ASAP

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Title: Inspector Date: 4-2-2020

Field Reviewed? (X) Yes () No

Attachment "B"

Section V - Planned Disposal Method

The below listed UIC wells are all possibilities where flowback/produced water can be disposed:

UIC Well Name	Permit/API#	Operator	Latitude & Longitudes	County & State
K & H	4706101689	Central Environmental Services	39.235897, -81.757944	Athens County, OH
Dennison	3415725507	Dennison Disposal	40.407991, -81.311866	Tuscarawas County, OH
Nichols	3416723862	Nuverra Environmental Solutions	39.346783, -81.587640	Washington County, OH
Goff	3411928776	Nuverra Environmental Solutions	39.978168, -81.812152	Muskingum County, OH
Clearwater 3	3405923986	Nuverra Environmental Solutions	40.027672, -81.510341	Guernsey County, OH
Bo	3405924473	Nuverra Environmental Solutions	40.027672, -81.510342	Guernsey County, OH
Shields	3405924445	Nuverra Environmental Solutions	40.027171, -81.449562	Guernsey County, OH
Redbird #2	3416729731	Redbird Development, LLC	39.337326, -81.674314	Washington County, OH
Redbird #4	3416729767	Redbird Development, LLC	39.337326, -81.674314	Washington County, OH
Mills	3410523619	Omega Drilling/FQ Energy	38.936647, -81.781831	Meigs County, OH
Dexter City	3412124037	Omega Drilling/FQ Energy	39.653903, -81.476031	Noble County, OH
Ritchie	4708509721	Omega Drilling/FQ Energy	39.258578, -81.099936	Ritchie County, WV

NPDES (Treatment Plant)	Permit/API#	Operator	Latitude & Longitudes	County & State
Greene County Water Treatment	WMGR 123SW010	Greene County Water Treatment, Inc.	39.908575, -81.140846	Waynesburg, PA
Fairmont Brine	WVR 00521948	Fairmont Brine Processing	39.507327, -80.126389	Fairmont, WV
Appalachian Water Service	WMGR 123001	Nuverra Environmental Solutions	39.852370, -79.925116	Masontown, PA
Penneco	2D09300103002	Penneco	39.013264, -79.810137	Randolph, WV

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N/A

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

Operator Name: NNE Resources LLC

Watershed (HUC 10): Dunkard Creek Quad: Blacksville

Farm Name: Moore & Eddy 4

- 1. List the procedures used for the treatment and discharge of fluids. Include a list of all operations that could contaminate the groundwater.

NA

- 2. Describe procedures and equipment used to protect groundwater quality from the list of potential contaminant sources above.

- 3. List the closest water body, distance to closest water body, and distance from closest Well Head Protection Area to the discharge area.

- 4. Summarize all activities at your facility that are already regulated for groundwater protection.

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- 5. Discuss any existing groundwater quality data for your facility or an adjacent property.

N/A

6. Provide a statement that no waste material will be used for deicing or fill material on the property.

7. Describe the groundwater protection instruction and training to be provided to the employees. Job procedures shall provide direction on how to prevent groundwater contamination.

8. Provide provisions and frequency for inspections of all GPP elements and equipment.

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Signature: Hollinshead

Date: 3/27/20

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SCALE BAR: 1"=100'



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

DAVID P WALKER AND NANCY FACEMIRE TAX MAP AND PARCEL 4-16-39 48.00 ACRES

EXISTING ROADWAY TO J.S. WALKER NO. 4 SHALLOW WELL
J.S. WALKER NO. 4 47-061-00450

EXISTING ROADWAY TO MOORE EDDY NO. 5 SHALLOW WELL

NANCY FACEMIRE AND DAVID P WALKER TAX MAP AND PARCEL 4-16-38.1 32.00 ACRES

PROPOSED EXISTING ROAD USAGE TO MOORE EDDY NO. 4 SHALLOW WELL

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

IMPROVE 53'+- EXISTING TRAM ROAD TO 12' WIDTH STONE,CLEAR,GRUB AS NEEDED

PROJECT BOUNDARY 0.40 ACRES

0.30 ACRES NEW DISTURBANCE

EXISTING ROADWAY TO D.J. EDDY NO. 7 SHALLOW WELL

METAL WASTE TANK 540 C.F. 114 BBLS 4788 GALLONS

MOORE EDDY NO. 4 47-061-00505 NAD 83 LAT:39.648770 LON:-80.155052

EXISTING STORAGE TANK TO BE REMOVED

MOORE EDDY NO. 4 47-061-00505

NANCY FACEMIRE AND DAVID P WALKER TAX MAP AND PARCEL 4-16-38.1 32.00 ACRES

CY ANN CUMMINS

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DATE: MARCH 2020
MOORE EDDY NO.4 SHALLOW WELL 47-061-00505
CLAY DISTRICT, MONONGALIA COUNTY, WV

WW-8 REC PLAN MOORE EDDY NO.4

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

WW-7
8-30-06



West Virginia Department of Environmental Protection
Office of Oil and Gas
WELL LOCATION FORM: GPS

API: 47-061-00505 WELL NO.: 4

FARM NAME: Moore & Eddy

RESPONSIBLE PARTY NAME: NNE Resources LLC

COUNTY: Monongalia DISTRICT: Clay

QUADRANGLE: Blacksville

SURFACE OWNER: Nancy E. Facemire & David P. Walker

ROYALTY OWNER: Multiple Owners

UTM GPS NORTHING: 4389130.0

UTM GPS EASTING: 572490.0 GPS ELEVATION: 1,405'

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 : Post Processed Differential

Real-Time Differential

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.

Hollimedy
Signature

Regulatory Manager
Title

3-27-20
Date

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11/10/2016

PLUGGING PERMIT CHECKLIST

Plugging Permit

- WW-4B
- WW-4B signed by inspector
- WW-4A
- SURFACE OWNER WAIVER or PROOF THAT APPLICATION WAS SENT BY REGISTERED OR CERTIFIED MAIL
- COAL OWNER/COAL OPERATOR/COAL LESSEE WAIVERS or PROOF THAT APPLICATION WAS SENT BY REGISTERED OR CERTIFIED MAIL
- WW-9 PAGE 1 (NOTARIZED)
- WW-9 PAGE 2 with attached drawing of road, location, pit and proposed area for land application
- WW-9 GPP PAGE 1 and 2 if well effluent will be land applied
- RECENT MYLAR PLAT OR WW-7
- WELL RECORDS/COMPLETION REPORT
- TOPOGRAPHIC MAP OF WELL, SHOWING PIT IF PIT IS USED
- MUST HAVE VALID BOND IN OPERATOR'S NAME
- CHECK FOR \$100 IF PIT IS USED

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