

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

Wednesday, June 22, 2022 WELL WORK PLUGGING PERMIT Vertical Plugging

NNE RESOURCES LLC 707 VIRGINIA STREET EAST, SUITE 1200 CHARLESTON, WV 25301

Re: Permit approval for J. WILDMAN 29 47-061-01002-00-00

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.

anes A. Martin

Operator's Well Number: J. WILDMAN 29 Farm Name: EDDY, MARK & HARRY U.S. WELL NUMBER: 47-061-01002-00-00 Vertical Plugging Date Issued: 6/22/2022

Promoting a healthy environment.

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. <u>Failure to adhere to the specified</u> 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.

WW-41	P		1) Date April 19, 2022
	2/01		2) Operator's
Nev.	2701		Well No. J. Wildman 29
			3) API Well No. 47-061 -01002
		STATE OF WE	ST VIRGINIA
			ONMENTAL PROTECTION DIL AND GAS
		APPLICATION FOR A PERM	IT TO PLUG AND ABANDON
4)			injection/ Waste disposal/
	(If "0	Gas, Production X or Und	erground storage) Deep/ Shallow X
5)	Location: Ele	evation 1,495	Watershed Dunkard Creek
		strict Clay	County Monongalia Quadrangle Osage
6)	Well Operator	NNE Resources LLC	7) Designated Agent Hollie Medley, Regulatory Manager
0,	Address	707 Virginia Street East, Suite 1200	Address 48 Donley Street, Suite 601
		Charleston, WV 25301	Morgantown, WV 26501
8)		nspector to be notified	9) Plugging Contractor
	Name Ken	neth Greynolds	Name_TBD
	Address 613	Broad Run Rd.	Address
	Jane	e Lew, WV 26378	

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

No WELL RECOLDS.

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

Work order approved by inspector

Date



J. Wildman 29 Clay District, Monongalia County, WV API Number: 47-061-01002 Plugging Procedure

Discussion

Approval is requested to perform the initial plugging on the J. Wildman 29 well. The J. Wildman 29 is a vertical shallow well located in Clay District, Monongalia County, WV. This well was drilled to a depth of approximately 2,000'. Production from this well has been very low for numerous years. The J. Wildman 29 is recommended to be plugged and abandoned.

Plug and Abandonment Procedure:

- 1. Ensure all necessary crosion and sediment control devices are in place.
- 2. Perform necessary earth work to establish access and work area for rig and equipment.
- 3. RIH with open ended tubing to determine PBTD.
- 4. Attempt to remove all casing by pulling a minimum of 150% of casing string weight.
- 5. If casing will not pull out, cut and remove as much casing as possible.
- 6. Log well to determine casing and coal depth.
- 7. Spot expandable cement from PBTD to 100' below coal to set solid cement plug.
- 8. Set a solid cement plug 100' above coal.
- 9. WOC expandable cement to harden.
- 10. Top off well to surface with Class A cement with no more than 3% CaCl2 and no other additives.
- 11. Place well monument with API number on spot of well.
- 12. Reclaim site.
- 13. After 70% growth is observed remove any remaining erosion and sediment controls.

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 1¹/₂" tubing to estimated TD of 2,000'.
- 4. Pump cement and gel plugs per state requirements.
- 5. Bury and plat a well monument with WV State API number.

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RACE A MONUMENT PER WU STATE CODE,
9mm
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PROCEDURE

- 1) Safety is the number one priority. Well site safety meetings will be held before each major operation
- 2) MIRU construction equipment and remove any tanks, separators, well lines, meter runs, exc.
- 3) MIRU service rig & needed BOP equipment
- 4) TOOH strapping rods and tubing
- 5) TIH strapping 1¹/₂" tubing to PBTD'
- 6) Pump 20 sks of Class A cement (150' cement plug), displace cement plug
- 7) TOOH with $1\frac{1}{2}$ " tubing
- 8) RIH with Mechanical Ripper on sand line to 1,600' and attempt to rip and retrieve 5 3/16" casing.
- 9) If Mechanical Ripper is not successful, contact NNE representative to discuss wire line options
- 10) TOOH with 5 3/16" casing and tally out
- 11) RIH and perforate 8¹/4" casing
- 12) RIH with Mechanical Ripper on sand line to rip 8¹/₄" casing above free point and perforations
- 13) TIH with 1¹/₂" tubing
- 14) Pump cement from 1,650' to above 81/4" perfs
- 15) TOOH with 1¹/₂" tubing

PRRFER CUTTING. J.WM

16) TOOH with 81/4" casing

17) RIH with 11/2" tubing

18) Cement to surface

19) Cut all casing 36 inches below GL. Install a monument to WV state requirements

20) RDMO all service equipment providers and reclaim location to WV State requirements

Well Data

Very little documentation exists on Wildman 29. Based on offset experience it is estimated that 5-3/16" production casing was run to a TD of approximately 2,000'. Surface casing is most likely 8-1/4" run to approximately 850'

Capacities

SIZE	WEIGHT	CAPACITY (GAL/FT)	CAPACITY (BBL/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*	N/A	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

*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.

Driving Directions

From the Sheetz at the intersection of US Route 19 and State Route 19/24 in Star City travel north on US Route 19 for 1.63 miles. Turn left onto State Route 7 and travel 5.18 miles. Turn left onto State Route 37 (Pedlar Run) and travel 3.13 miles to State Route 37. Turn left onto State Route 37 and travel 0.32 miles to existing stone well road on the left. Travel on existing well road out ridge approximately 3700 feet to location.

WW-4A Revised 6-07 1) Date: April 19, 2022

2) Operator's Well Number

J. Wildman 29

3) API Well No.: 47 - 061 - 01002

STATE OF WEST VIRGINIA

DEPARTMENT OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS NOTICE 0F APPLICATION TO PLUG AND ABANDON A WELL

4) S	urface Ow	ner(s) to be served:	5) (a) Coal Operator		
(a) Name	Howard S. Dean	Name		
A	ddress	340 Smith Creek Rd	Address		_
		Spraggs, PA 15362			_
(b) Name	Stanley Allen Dean	(b) Coal Ow	ner(s) with Declaration	
A	Address	340 Smith Creek Rd	Name	Murray Energy Corporation	_
		Spraggs, PA 15362	Address	46226 National Road	
				St. Clairsville, OH 43950	
(c)) Name	Branson Raith Matheny	Name	Consol Mining Company LLC	
A	ddress	1304 Pedlar Run Road	Address	CNX Center, 1000 Consol Energy Drive	
		Core, WV 26541		Canonsburg, PA 15317	
6) Ins	pector	Kenneth Greynolds	(c) Coal Les	see with Declaration	
Ad	ldress	613 Broad Run Rd	Name		_
		Jane Lew, WV 26378	Address		
Te	lephone	304-926-0499			

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

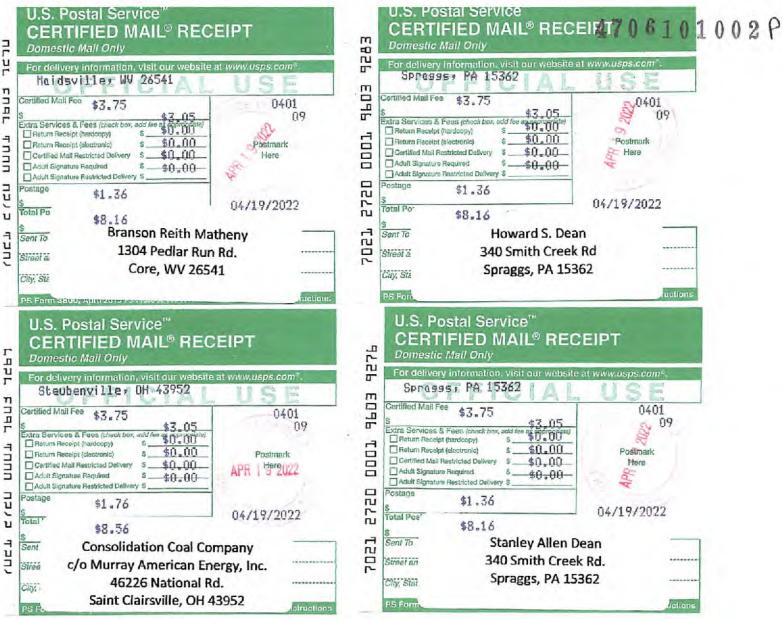
- (1) The application to Plug and Abandon a Well on Form WW-4B, which sets out the parties involved in the work and describes the well its and the plugging work order; and
- (2) The plat (surveyor's map) showing the well location on Form WW-G.

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

OFFICIAL SEAL	Well Operator	NNE Resources LLC
STATE OF WEST VIRGINIA	By:	Hollie Mediay
王后/张家家上 Kristen Brooks 三	Its:	Regulatory Manager
48 Donley St., Suite 601	Address	707 Virginia Street East, Suite 1200
Morgantown, WV 26501 My Commission Expires Aug. 10, 2023		Charleston, WV 25301
Ξασταπατοποιοποιοποιοποιοποιοπ	Telephone	304-212-0422
Subscribed and sworn before me, this My Commission Expires Oil and Gas Privacy Notice	s. 19th <u>sten Brod</u> g 10, 202	y of April, 2022 Notary Public

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 <u>depprivacyoffier@wv.gov</u>.



WW-9 (2/15)

API Number 47 - 061 - 01002

Operator's Well No. J. Wildman 29

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	Osage
Do you anticipate using more than 5,000 bbls of water to complete the proposed will a pit be used? Yes No	well work? Yes No
If so, please describe anticipated pit waste. Will a synthetic liner be used in the pit? Yes No 🖌 If	so, what ml.? N/A
Proposed Disposal Method For Treated Pit Wastes:	50, what hit.
 Land Application Underground Injection (UIC Permit Number See Atta Reuse (at API Number see attached 	achment)
Off Site Disposal (Supply form WW-9 for disposal lo Other (Explain_see attached	cation)
Will closed loop system be used? If so, describe: N/A	
Drilling medium anticipated for this well (vertical and horizontal)? Air, freshwat -If oil based, what type? Synthetic, petroleum, etc. <u>N/A</u>	ter, oil based, etc. Freshwater/Gel
Additives to be used in drilling medium? Bentonite	
Drill cuttings disposal method? Leave in pit, landfill, removed offsite, etc. Rem	ove Offsite
-If left in pit and plan to solidify what medium will be used? (cement, li	ime, 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 outtings 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 Hole Medy	
Company Official (Typed Name) Hollie Medley	
Company Official Title Regulatory Manager	
	OFFICIAL SEAL
Subscribed and sworn before me this 19th day of April, 2022	20 NOTARY PUBLIC STATE OF WEST VIRGINIA Kristen Brooks
Kristen Brooks	Notary Public Assessment Ass Assessment Assessment Assessment Assessment Assessment Assessment Assessment Assessment Assessment Assessment As
My commission expires Aug. 10, 2023	My Commission Expires Aug. 10, 2023



Form WW-9

Operator's Well No. J. Wildman 29

NNE Resources LLC

osed Revegetation Tr	eatment: Acres Dist	urbed 0.86	Prevegetation pH TBD
Lime 2	Tons/acre or	to correct to pH 7	
Fertilizer type 1	9-19-19		
Fertilizer amount	500	_lbs/acre	
Mulch 2		Tons/acre	

Seed Mixtures

Temporary		Perman	Permanent	
Seed Type	lbs/acre	Seed Type	lbs/acre	
Orchard Grass	46	Orchard Grass	46	
Red Clover	8	Red Clover	8	
Tertraploi Perenni	al Rye 16	Tertraploi Perennial F	Rye 16	
Timothy 15 Ann	ual Rye 15	Timothy 15 Annual	Rye 15	

Attach:

Drawing(s) of road, location, pit and proposed area for land application (unless engineered plans including this info have been provided)

Photocopied section of involved 7.5' topographic sheet.

Plan Approved by:	Kenneth Greynolds	Greynels s anal = Kennich L O - WYDEF GU = Ol and Gas 2407
Comments:		
Title:		Date:
Field Reviewed?	()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.

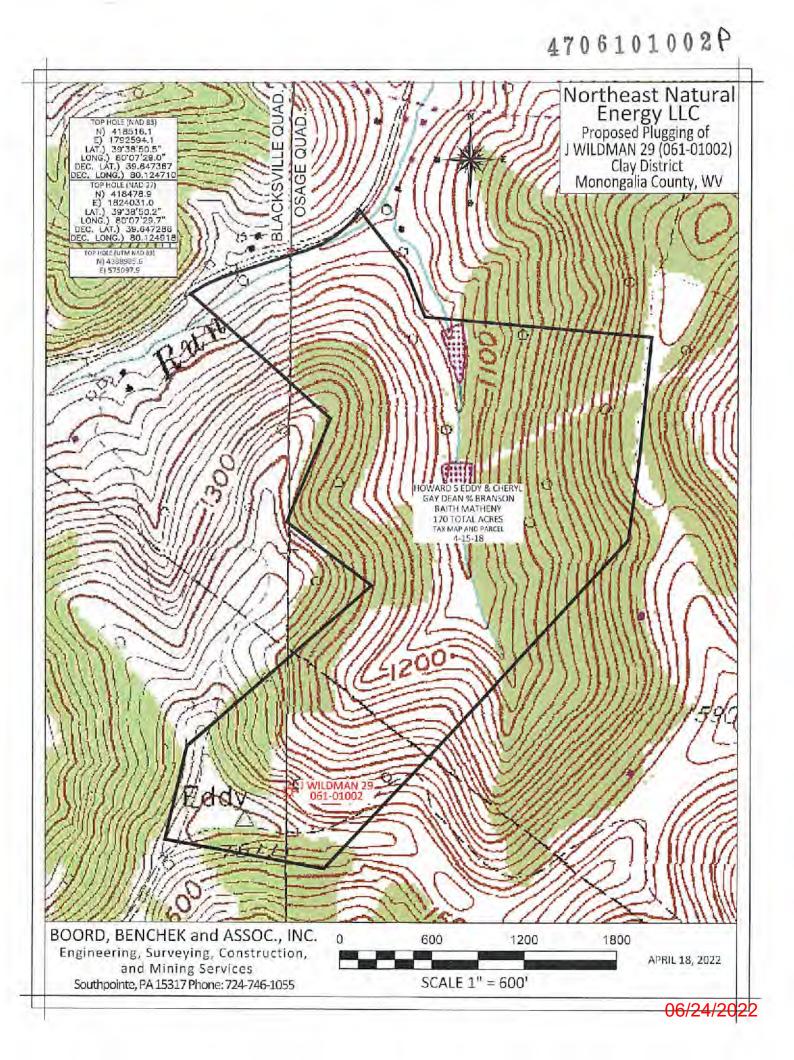
The Cuttings will be taken to disposal at one or more of the following disposal/approved waste facilities, unless listed facilities are no longer approved to accept waste at time of disposal:

- Westmoreland 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 # 200732523)





WW-7	
8-30-06	
West Virginia Department of I Office of Oil	
WELL LOCATION	N FORM: GPS
_{API:} 47-061-01002	WELL NO.: 29
FARM NAME: J. Wildman	
RESPONSIBLE PARTY NAME: NNE R	esources LLC
	DISTRICT: Clay
QUADRANGLE: Osage 7.5'	
SURFACE OWNER:Howard S. Eddy, Sta	nley A. Dean, Branson R. Matheny
ROYALTY OWNER: Mark Eddy	
UTM GPS NORTHING: 4388986.9	
UTM GPS EASTING: 575097.0	GPS ELEVATION: 1495'

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

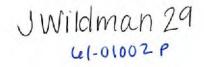
Mapping Grade GPS X : Post Processed Differential _

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.

Hopim	ect -	Regulatory Manager	4-19-22	
Signature	8	Title	Date	
				00/0



11/10/2016

PLUGGING PERMIT CHECKLIST

Plugging Permit	
WW-4B	
WW-4B signed by inspector	
WW-4A	
SURFACE OWNER WAIVER OF PROOF THAT APPLICATION WAS SENT BY REGISTERED OF MAIL	OR CERITFIED
COAL OWNER/COAL OPERATOR/COAL LESSEE WAIVERS or PROOF THAT APPLICATION	N WAS SENT
WW-9 PAGE 1 (NOTARIZED)	
WW-9 PAGE 2 with attached drawing of road, location, pit and proposed area for lan	d application
WW-9 GPP PAGE 1 and 2 if well effluent will be land applied NA	
RECENT MYLAR PLAT OR WW-7	
well records/completion report None available	
TOPOGRAPHIC MAP OF WELL, SHOWING PIT IF PIT IS USED	
MUST HAVE VALID BOND IN OPERATOR'S NAME	RECEIVED Office of Oil and Gas
CHECK FOR \$100 IF PIT IS USED NA	APR 2 2 2022

WV Department of Environmental Protection



Stansberry, Wade A <wade.a.stansberry@wv.gov>

Plugging H6A Horizontal Well Work Permit (API: 47-061-01002)

1 message

Stansberry, Wade A <wade.a.stansberry@wv.gov>

Wed, Jun 22, 2022 at 11:20 AM To: Hollie Medley <hmedley@nne-llc.com>, Kristen Brooks <kbrooks@nne-llc.com>, "Greynolds, Kenneth L" <kenneth.l.greynolds@wv.gov>, Mark Musick <mmusick@assessor.org>

I have attached a copy of the newly issued well permit number. This will serve as your copy.

47-061-01002 - J WILDMAN 29

If you have any questions, then please contact us here at the Office of Oil and Gas.

Thank you,

Wade A. Stansberry

Environmental Resource Specialist 3

West Virginia Department of Environmental Protection

Office of Oil & Gas

601 57th St. SE

Charleston, WV 25304

(304) 926-0499 ext. 41115

(304) 926-0452 fax

Wade.A.Stansberry@wv.gov

2 attachments

47-061-01002 - Copy.pdf 74 1316K

IR-8 Blank.pdf 7-237K