



west virginia department of environmental protection

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

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

Monday, June 28, 2021

WELL WORK PLUGGING PERMIT
Not Available Plugging

VIKING INTERNATIONAL RESOURCES CO., INC.
1300 FORT PIERPONT DR., SUITE 201
MORGANTOWN, WV 26508

Re: Permit approval for 0
47-085-08013-00-00

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: 0
Farm Name: STALLMAN, VIRGINIA
U.S. WELL NUMBER: 47-085-08013-00-00
Not Available Plugging
Date Issued: 6/28/2021

Promoting a healthy environment.

07/02/2021

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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 within two years of the date of issuance of this permit.

07/02/2021

4708508013P
5/10/2021

- 1) Date _____ 2021
- 2) Operator's Well No. Heck #19 _____
- 3) API Well No. 47-085 - 08013 _____

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 _____ / Liquid injection _____ / Waste disposal _____ /
(If "Gas, Production or Underground storage _____) Deep _____ / Shallow _____
- 5) Location: Elevation 1075' Watershed Gillespie Run
District Grant County Ritchie Quadrangle Cairo
- 6) Well Operator Virco 7) Designated Agent Brittany Woody
Address 1300 Fort Pierpont Dr., Suite 201 Address 1300 Fort Pierpont Dr., Suite 201
Morgantown, WV 26508 Morgantown, WV 26508
- 8) Oil and Gas Inspector to be notified Name Derek Haught
Address PO Box 85
Smithville, WV 26178
- 9) Plugging Contractor Name NA
Address _____

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

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Office of Oil and Gas

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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 Derek M Haught Date 5/5/21

07/02/2021

Procedure for Setting Downhole Plug:

1. Verify all HSE requirements are understood and followed
2. Verify proper documentation is included in working procedure
3. MIRU plugging rig and equipment. Install all sediment and erosion controls and secondary containment.
4. Dig out around wellhead and set 4-5 ft of 20" conductor. Hand cement outside of conductor with bag cement.
 - a. This is to control and capture inadvertent returns from the backside of the 6-5/8" casing
5. Check pressures and bleed off if present. RU and pull rods and tubing out of the well if present. Tally tubing if pulled and then NORM test.
6. Check TD with cable tools
 - a. **NOTE: If TD is significantly different from the well record TD notify WVDEP Inspector as well as SWN manager and engineer**
7. TIH w/ work string to TD, pump tubing capacity, pump 30 bbls of 6% gel, spot cement plug from TD - 1750 ft (38 sacks - Class A)
8. TOOH w/ work string to 1605 ft, spot cement plug from 1605 ft - 1505 ft (17 sacks - Class A)
9. TOOH w/ work string above cement plug and flush tubing to ensure cement is clear of pipe. WOC
10. Check TOC @ 1505 ft , reset plug if needed, if not TOOH w/ work string to 1125 ft
11. Pump 20 bbls of 6% gel then spot cement plug from 1125 ft - 1025 ft (17 sacks - Class A)
12. TOOH w/ work string. Find free point on 6 5/8" casing (Est. free point @ 600 -700 ft), and cut/ rip casing (around 650 ft)
13. TOOH w/ 6 5/8" casing pulling several joints
14. TIH w/ work string to set cement plug across casing cut to 700ft. Pump 15 bbls of 6% gel ahead and spot cement plug from 700 ft – 600 ft (44 sacks – Class A)
15. TOOH w/ work string. Pull remaining 6-5/8" casing and NORM test.
16. TIH w/ work string to 350 ft, if well has not circulated pump 6% gel until wellbore circulates. Then spot cement plug from 350 ft - 250 ft (44 sacks - Class A),
17. TOOH w/ work string to 150 ft. Spot cement plug from 150 ft - Surface (100 sacks - Class A)
18. TOOH w/ work string, top off well with cement if needed
19. Erect monument per WVDEP regulations
20. RDMO equipment, dispose of circulated fluids properly, reclaim location and access road per WVDEP regulations

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Well Info:

Well Name – W.L. Heck #19
 API – 47-085-0-8013
 Location – 39.1485240, -81.1946170
 County, State – Ritchie, WV
 Elevation – 1075 ft
 Well Casing Record –

Casing Size	Casing Depth	Comment
10"	135 ft	Pulled – Open Hole 12"
8 ¼"	1130 ft	Pulled – Open Hole 9-3/4"
6 5/8"	1555 ft	Left in well – Open Hole 8"
No Casing	1976 ft	Open Hole – 6"

Perforations –

- Top Salt Sand: 1808'
- Shot Interval salt sand: 1857' – 1873'
- Shot Interval Keener sand: 1957' – 1969'

Comments –

- Hole diameter sizes are assumptions. No record of hole sizes in well file.

Purpose:

Provide a procedure for safely and effectively plugging & abandoning a well.

Scope:

This procedure pertains to all SWN Production Company, LLC (SWN) personnel and third parties involved in or near the following procedure on a SWN location in the SW Appalachia Division.

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HSE:

- Must wear 4-Gas Monitor at all times, powered on, and calibrated up to date
- Complete JSEA, LOTO, and Hot Work documents as needed
- Follow proper PPE requirements per "2015 HSE Handbook". Verify pressure control equipment integrity
- Always express STOP work authority if deemed necessary
- Hold pre-job safety meeting
- Must follow SWN Conventional Well P&A Minimum Requirements Document
- Access road and location to be constructed per WVDEP regulations and pre-seeded
- All tubulars pulled from the well need to be NORM tested. Contractor gets all salvage pulled from the well
- All fluids circulated from the wellbore are to be disposed of properly and documentation provided

Responsibilities:

Production Engineer(s) – Responsible for providing a working procedure specified for the well that the work is being performed on. Responsible for coordinating work and seeing that it is finished in a timely manner.

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IR-26-N
QVERSE

INSPECTOR'S WELL INSPECTION SUMMARY FORM

WELL TYPE _____ API# 47-085-8013-N
 ELEVATION: _____ OPERATOR: D + D ENERGY, INC.
 DISTRICT: GRANT TELEPHONE: _____
 QUADRANGLE: CAIRO 7.5 FARM: STALLMAN, VIRGINIA
 COUNTY: MARSHALL RITCHIE WELL NO.: HECK 19

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 OFFICE OF OIL AND GAS
 APR 18 1995
 WV Division of
 Environmental Protection

SURFACE OWNER _____ COMMENTS (Y/N) _____ TELEPHONE _____
 TARGET FORMATION _____ DATE APPLICATION RECEIVED _____
 DATE PERMIT ISSUED: 12-25-90
 DATE VISITED 4-11-95

Inspector report

API # OK, SITE & NO ACCESS HEDDS RESEEDED. (WELL
 JUST REWORKED) WELL IN PRODUCTION
 HAS JACK, TUBING, RODS. NO SALT OR OIL SPILLS SHOWN
 NO TANK ON SITE

Samuel Newman
 INSPECTOR'S SIGNATURE

-----RECORD ALL VISITS TO THIS WELL ON BACK-----

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07/02/2021

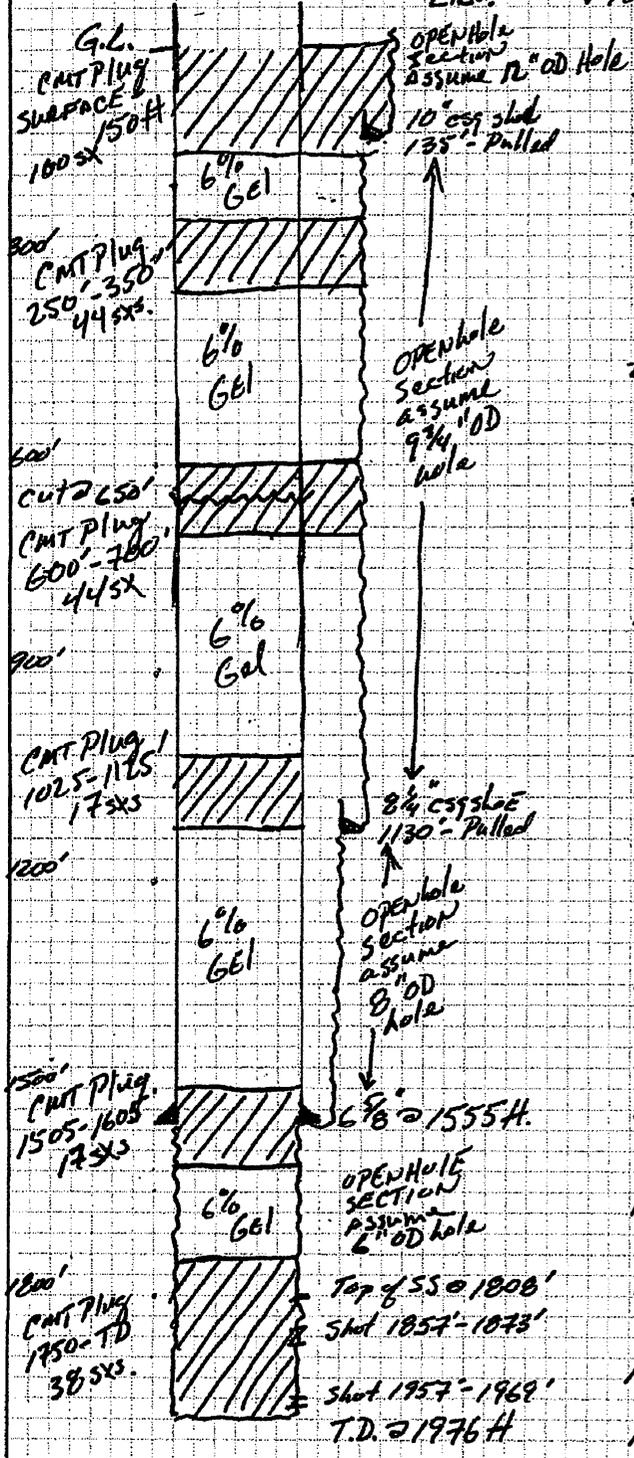


WELL NAME: W.L. Heck #19
 API # : 47-065-08013
 County/ST. : Ritchie, WV
 Elev. : 1075 ft.

WV Department of Environmental Protection

COSING	DEPTH	SIZE	COMMENT
10"	135 ft	12"	Pulled
8 1/2"	1130 ft	9 3/4"	Pulled
6 3/8"	1555 ft	8"	Left in hole
TD	1976 ft	6"	OPEN HOLE

Shot Intervals
 1857'-1873'
 1957'-1969'



Procedures

- 1) MIRA Equipment. Dig out ground wellhead and set 4.5 ft of 20" conductor. Hand cement outside of conductor w/ bag cement. (This is to control & capture inadvertent returns from the backside of the 6 3/8" CSQ)
- 2) Check pressures and bleed off if present. Pull rods and tubing out of well if present. Tally tubing and test for NORM.
- 3) Check T.D. of well w/ cable tools. NOTE: If T.D. is significantly different from the well record T.D. contact WVDEP Inspector.
- 4) TIT w/ workstring to T.D. Pump 30 bbls of 6% gel Spot cement plug from T.D - 1250 ft (38 sxs Class A)
- 5) TOOH w/ workstring to 1605 ft. Spot cement plug from 1605' - 1505' (17 sxs Class A)
- 6) TOOH w/ workstring above cement plug top. WOC. Reset cement plug if TOC is below 1505 ft.
- 7) TOOH w/ workstring to 1125 ft. Pump 20 bbls of 6% gel. Spot cement plug from 1125' - 1025' (17 sxs Class A).
- 8) TOOH w/ workstring. RU to final tripping point on 6 3/8" CSQ (Estimate F.P. @ 600' - 700'). Cut/RIP 6 3/8" CSQ and pull several joints. @ 650' and pull several joints
- 9) TIT w/ workstring to 700 ft. Pump 15 bbls of 6% gel Spot cement plug from 700' - 600' (44 sxs Class A)
- 10) TOOH w/ workstring. Pull remaining 6 3/8" CSQ. Norm test 6 3/8" CSQ
- 11) TIT w/ workstring to 350 ft. If hole has not circ. to surface pump 6% gel till hole circulation (39 bbls)
- 12) Spot cement plug from 350' - 250' (44 sxs Class A)
- 13) TOOH w/ workstring to 150'. Spot cement plug from 150' - SURFACE (100 sxs Class A)
- 14) TOOH w/ workstring
- 15) ERECT MONUMENT per WVDEP reqs.
- 16) RDMO Equipment. Dispose of circulated fluid properly
- 17) Reclaim location & road per WVDEP reqs.

Total cement: 260 sxs

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WW-4A
Revised 6-07

1) Date: 5/14/21
2) Operator's Well Number
Heck #19

3) API Well No.: 47 - 085 - 08013

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 <u>Donald Flannery & Alicia B. Flannery</u>	Name <u>N/A</u>
Address <u>10576 Gillespie Run Road</u>	Address _____
<u>Petroleum, WV 26161</u>	_____
(b) Name _____	(b) Coal Owner(s) with Declaration
Address _____	Name _____
_____	Address _____
(c) Name _____	Name _____
Address _____	Address _____
_____	_____
6) Inspector <u>Derek Haught</u>	(c) Coal Lessee with Declaration
Address <u>PO Box 85</u>	Name _____
<u>Smithville, WV 26178</u>	Address _____
Telephone <u>304-206-7613</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.

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Well Operator Virco
By: Brittany Woody
Its: Senior Regulatory Analyst
Address 1300 Fort Pierpont Dr., Suite 201
Morgantown, WV 26508
Telephone 304-884-1610

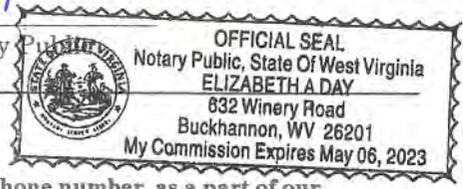
Brittany Woody

Subscribed and sworn before me this 29th day of April 2021

My Commission Expires 5/6/2025 Notary Elizabeth A Day

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.



07/02/2021

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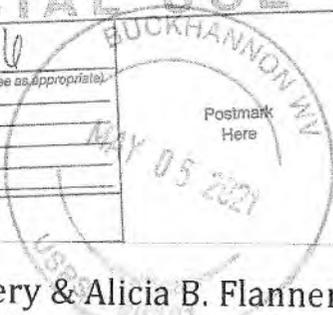
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CERTIFIED MAIL® RECEIPT
Domestic Mail Only

HECK #19

For delivery information, visit our website at www.usps.com

OFFICIAL USE

Certified Mail Fee	\$	6.90
Extra Services & Fees (check box, add fee as appropriate)		
<input type="checkbox"/> Return Receipt (hardcopy)	\$	
<input type="checkbox"/> Return Receipt (electronic)	\$	
<input type="checkbox"/> Certified Mail Restricted Delivery	\$	
<input type="checkbox"/> Adult Signature Required	\$	
<input type="checkbox"/> Adult Signature Restricted Delivery	\$	
Postage	\$	



Donald Flannery & Alicia B. Flannery
10576 Gillespie Run Road
Petroleum, WV 26161

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Environmental Protection

07/02/2021

SURFACE OWNER WAIVER

4708508013P

Operator's Well
Number

Heck #19

INSTRUCTIONS TO SURFACE OWNERS NAMED ON PAGE WW4-A

The well operator named on page WW-4A is applying for a permit from the State to plug and abandon a well. (Note: If the surface tract is owned by more than three persons, then these materials were served on you because your name appeared on the Sheriff's tax ticket on the land or because you actually occupy the surface tract. In either case, you may be the only owner who will actually receive these materials.) See Chapter 22 of the West Virginia Code. Well work permits are valid for 24 months. If you do not own any interest in the surface tract, please forward these materials to the true owner immediately if you know who it is. Also, please notify the well operator and the Office of Oil and Gas.

**NOTE: YOU ARE NOT REQUIRED TO FILE ANY COMMENT.
WHERE TO FILE COMMENTS AND OBTAIN ADDITIONAL INFORMATION:**

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

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MAY 10 2021

WV Department of
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Time Limits and methods for filing comments. The law requires these materials to be served on or before the date the operator files his Application. You have **FIVE (5) DAYS** after the filing date to file your comments. Comments must be filed in person or received in the mail by the Chief's office by the time stated above. You may call the Chief's office to be sure of the date. Check with your postmaster to ensure adequate delivery time or to arrange special expedited handling. If you have been contacted by the well operator and you have signed a "voluntary statement of no objection" to the planned work described in these materials, then the permit may be issued at any time.

Comments must be in writing. Your comments must include your name, address and telephone number, the well operator's name and well number and the approximate location of the proposed well site including district and county from the application. You may add other documents, such as sketches, maps or photographs to support your comments.

The Chief has the power to deny or condition a well work permit based on comments on the following grounds:

- 1) The proposed well work will constitute a hazard to the safety of persons.
- 2) The soil erosion and sediment control plan is not adequate or effective;
- 3) Damage would occur to publicly owned lands or resources;
- 4) The proposed well work fails to protect fresh water sources or supplies;
- 5) The applicant has committed a substantial violation of a previous permit or a substantial violation of one or more of the rules promulgated under Chapter 22, and has failed to abate or seek review of the violation..."

If you want a copy of the permit as it is issued or a copy of the order denying the permit, you should request a copy from the Chief.

VOLUNTARY STATEMENT OF NO OBJECTION

I hereby state that I have read the instructions to surface owners and that I have received copies of a Notice and Application For A Permit To Plug And Abandon on Forms WW-4A and WW-4B, and a survey plat.

I further state that I have no objection to the planned work described in these materials, and I have no objection to a permit being issued on those materials.

FOR EXECUTION BY A NATURAL PERSON
ETC.

FOR EXECUTION BY A CORPORATION,

_____	Date _____	Name <u>Virco</u>	_____
Signature		By <u>Brittany Woody</u>	_____
		Its <u>Senior Regulatory Analyst</u>	Date _____
		Signature	Date <u>07/02/2021</u>

WW-9
(5/16)

API Number 47 - 085 08013
Operator's Well No Heck # 19

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

Operator Name Virco OP Code 7434

Watershed (HUC 10) Gillespie Run Quadrangle Cairo

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 *WELL EFFLUENT WILL BE CONTAINED IN TANKS BEFORE DISPOSING OFF-SITE gwm*

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 TBD pending selection of plugging contractor)
- Reuse (at API Number _____)
- Off Site Disposal (Supply form WW-9 for disposal location)
- Other (Explain _____)

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JUN 1 2021

Will closed loop system be used? If so, describe: N/A

Drilling medium anticipated for this well (vertical and horizontal)? Air, freshwater, oil based, etc. N/A WV Department of Environmental Protection

-If oil based, what type? Synthetic, petroleum, etc. N/A

Additives to be used in drilling medium? N/A

Drill cuttings disposal method? Leave in pit, landfill, removed offsite, etc. N/A

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

-Landfill or offsite name/permit number? _____

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 Brittany Woody
Company Official (Typed Name) Brittany Woody
Company Official Title Senior Regulatory Analyst



Subscribed and sworn before me this 20th day of April

Elizabeth A Day Notary Public
My commission expires 5/6/2023

Proposed Revegetation Treatment: Acres Disturbed ONE Prevegetation pH 5.5

Lime Two Tons/acre or to correct to pH 6.5

Fertilizer type 10-20-20

Fertilizer amount 500 lbs/acre

Mulch 50 Bales 2.5 Tons/acre

Seed Mixtures

Temporary

Permanent

Seed Type lbs/acre

Seed Type lbs/acre

Orchard Grass 30%

Rye (annual @BT) 35%

Timothy (Climax) 25%

Clover (Med.Red) 10%

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: Derek M Haught

Comments: _____

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WV Department of
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Title: Oil & Gas Inspector

Date: 5/5/21

Field Reviewed? (X) Yes () No

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

Operator Name: Virco
Watershed (HUC 10): Gillespie Run Quad: Cairo
Farm Name: _____

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

Plug to abandon operations.

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

Containment will be in place around the well. A portable pit will be used for fluids.

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

N/A

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WV Department of
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4. Summarize all activities at your facility that are already regulated for groundwater protection.

N/A

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.

No waste materials will be used for the deicing of area or equipment. Waste materials, if any, will not be used for material fill 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.

All employees are assigned spill protection training. Spill kits and containment are available and utilized on every work site.

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MAY 10 2021

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

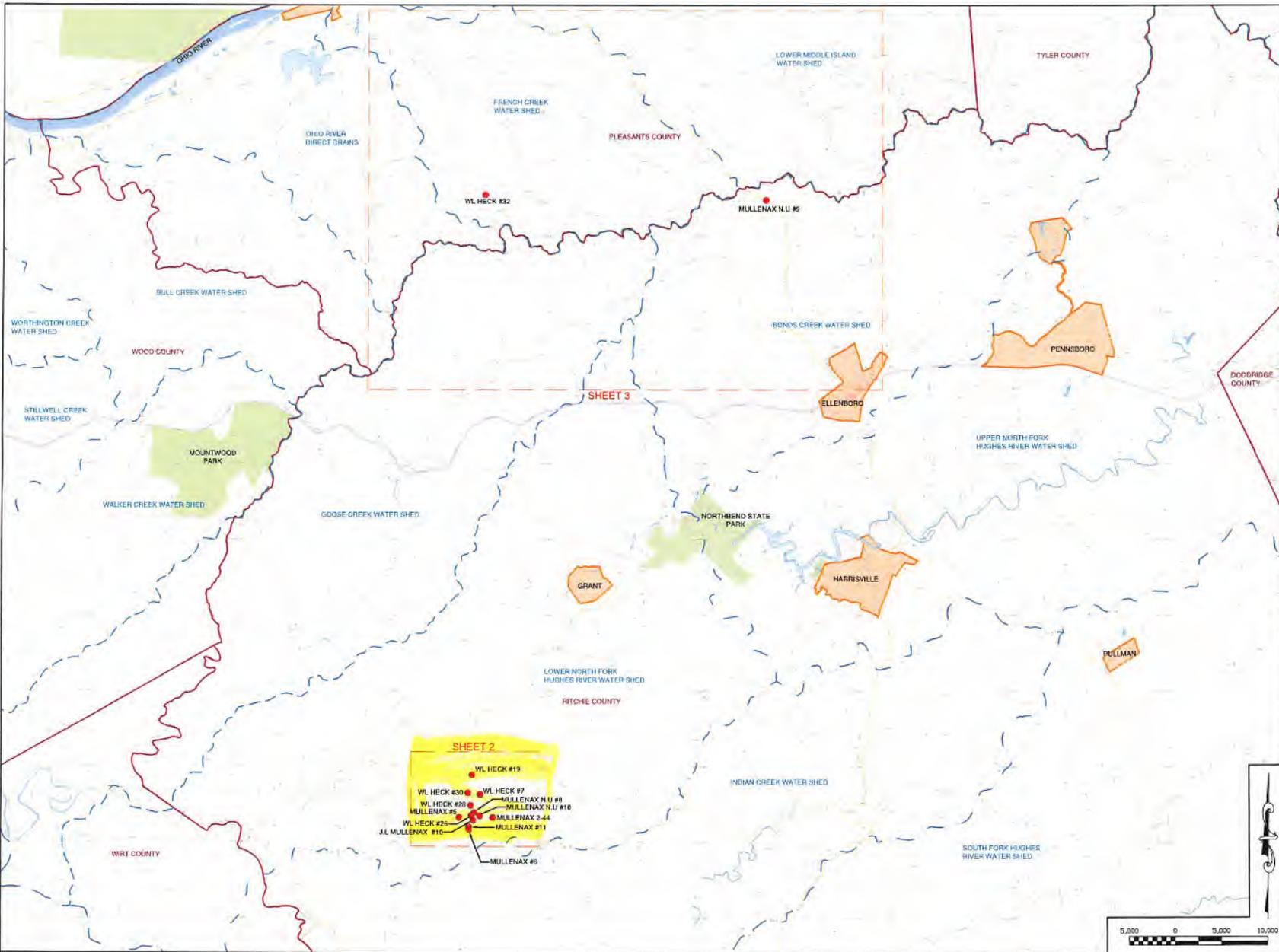
Inspections will be done before and during operations by designated employees.

WV Department of
Environmental Protection

Signature: Brittany Nbody

Date: 5/16/21

C:\P\15.1\Projects\2412_Plugging\Map_SWM\SWMap\2412-PLUGGING_MAP.dwg
 PLOT DATE/TIME: 4/7/2011 10:47 AM



SHEET 2

- WL HECK #19
- WL HECK #30
- WL HECK #28
- MULLENAX #5
- WL HECK #26
- J.L. MULLENAX #10
- WL HECK #7
- MULLENAX U #8
- MULLENAX N.U. #10
- MULLENAX 2-44
- MULLENAX #11
- MULLENAX #6



LOCATION MAP NOT TO SCALE

6	
5	
4	
3	
2	
1	

NO.	DATE	DESCRIPTION

PREPARED FOR:
Swn
 Southwestern Energy[®]

SEAL:

PREPARED BY:

2361 DAVISON RUN ROAD, SUITE 103
 CLARKESBURG, WV 25721
 WWW.ASCENTCONSULTINGENGINEERS.COM
 (304) 933-3463

PROJECT NUMBER:	2412	DRAWN:	CMK
DATE:	4-13-21	CHECKED:	ZLA
SCALE:	AS SHOWN	CREATED:	MRN

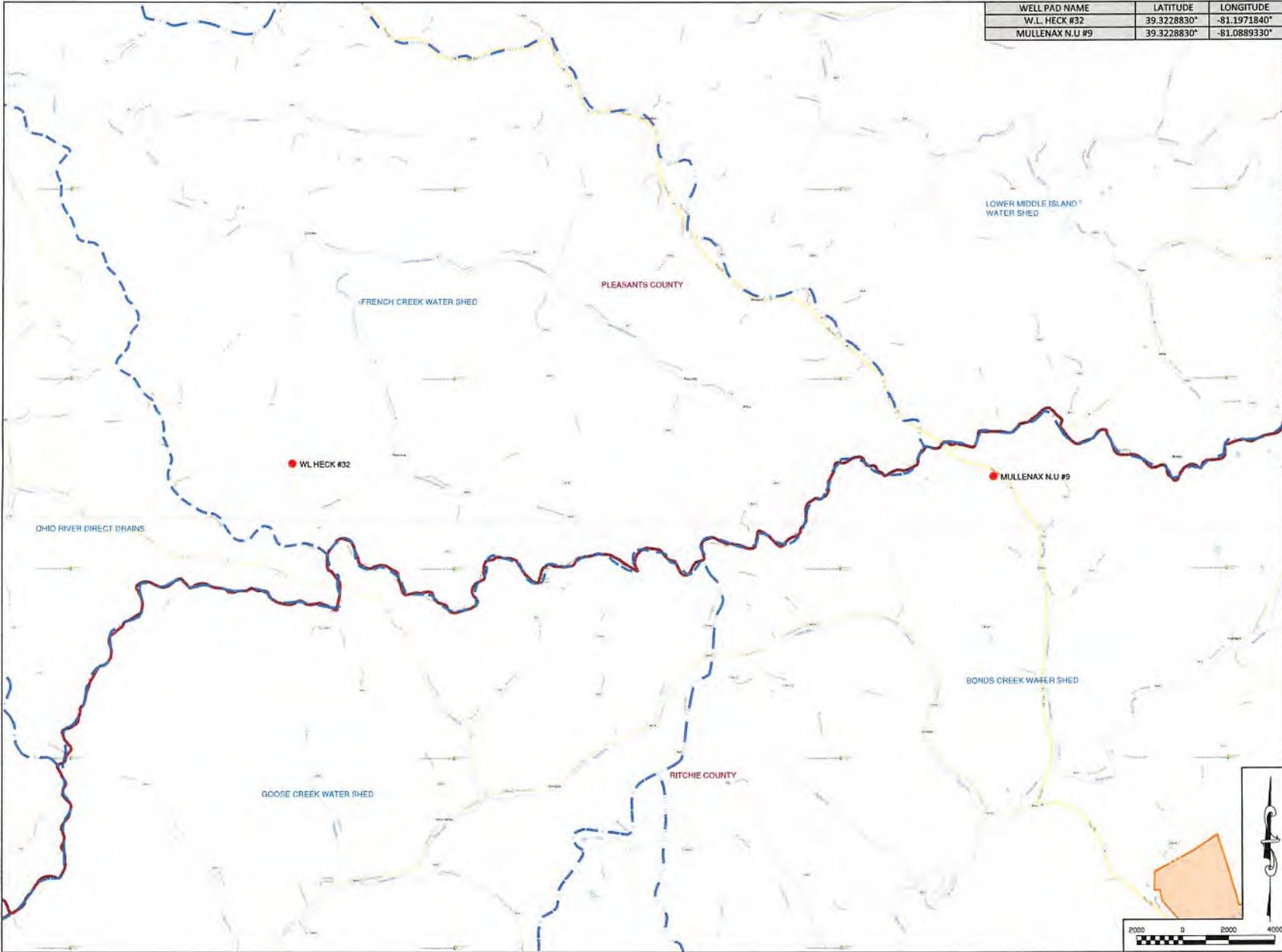
TITLE: **OVERALL PLUGGING**

PLAN STATUS:



4708508013P
 SHEET 1

C:\01 - 2012 - Projects\2412 Plugging Map SWN\Drawings\2412-PLUGGING MAP.dwg PLOT DATE/TIME: 4/7/2021 10:31 AM



WELL PAD NAME	LATITUDE	LONGITUDE
W.L. HECK #32	39.3228830°	-81.1971840°
MULLENAX N.U. #9	39.3228830°	-81.0889330°



LOCATION MAP NOT TO SCALE

6	
5	
4	
3	
2	
1	

NO.	DATE	DESCRIPTION

PREPARED FOR
SWN
 Southwestern Energy®

SEAL:

PREPARED BY:

 2561 DAVISON RUN ROAD, SUITE 103
 CLARKSBURG, WV 26301
 WWW.ASCENTCONSULTINGENGINEERS.COM
 (304) 933-3463

PROJECT NUMBER:	2412	DRAWN:	CMK
DATE:	4-13-21	DESIGN:	ZLA
SCALE:	AS SHOWN	CHECKED:	MRN

TITLE:
PLUGGING MAP
 PLAN STATUS: SHEET NO. 3

4708508013P

WW-7
8-30-06



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

API: 47-085-08013 WELL NO.: 19

FARM NAME: Heck

RESPONSIBLE PARTY NAME: Virco

COUNTY: Ritchie DISTRICT: Grant

QUADRANGLE: Cairo

SURFACE OWNER: Donald Flannery & Alicia B. Flannery

ROYALTY OWNER: Donald Flannery & Alicia B. Flannery

UTM GPS NORTHING: 4,333,285.40

UTM GPS EASTING: 483,197.20 GPS ELEVATION: 1075'

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:

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

Survey grade GPS : Post Processed Differential _____

Real-Time Differential

Mapping Grade GPS _____ : Post Processed Differential _____

Real-Time Differential _____

- 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.

Brittany Nbody
Signature

Senior Regulatory Analyst
Title

5/6/21
Date

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Office of Oil and Gas

MAY 10 2021

WV Department of
Environmental Protection

Heck#19

4708508013

11/10/2016

PLUGGING PERMIT CHECKLIST

RECEIVED

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

RECEIVED
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MAY 10 2021
WV Department of
Environmental Protection

07/02/2021