



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

Tuesday, June 29, 2021
WELL WORK PLUGGING PERMIT
Vertical Plugging

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

Re: Permit approval for MULLENAX 2-44
47-085-07789-00-00

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: MULLENAX 2-44
Farm Name: PAYNE, ALVIN
U.S. WELL NUMBER: 47-085-07789-00-00
Vertical Plugging
Date Issued: 6/29/2021

V

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.

1) Date 5/21 2021
2) Operator's Well No. J.L. Mullenax #2-44
3) API Well No. 47-085 - 07789

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 898' 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 9) Plugging Contractor
Name Derek Haught Name NA
Address PO Box 85 Address _____
Smithville, WV 26178

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

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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 Derek M. Haught Date 5/26/21

4708507789

Well Name:	J.L. Mullenax #2-44	Casing	Depth	OH	Comment	Shot interval
API #:	47-085-07789	Cond.	10'		Left in well	
County/St.	Ritchie, WV	10"	85'	12"	Pulled	
Elev.	989 ft.	8 1/4"	960'	9 3/4"	Pulled	
TD	1747 ft.	6 5/8"	1511'	8"	Left in well	
		4 1/2"	1743'	6"	Cemented w/ 100 sxs Class A w/ 2% Gel - 1.36 cu.ft./sack	

Comments: Hole diameter sizes are assumptions. No record of hole sizes in well file
 Access road and location to be constructed per WVDEP Regs 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
 Contractor will follow all SWN HSER requirements
Company was planning to drill deeper this well. They cleaned out the original hole to TD and ran 1743 ft of 4 1/2" 10.50 lb/ft casing. Cemented 4 1/2" casing with 100 sacks Class A w/ 2% Gel, 2% Salt - 1.36 cu. Ft./ sx. Calculated TOC @ 160 ft., actual TOC might be deeper. Decision was made NOT to DD this well.

Procedures

- 1) MIRU all plugging equipment, install all sediment and erosion controls and secondary containment
- 2) Dig out around wellhead and set 4-5 ft. of 20" conductor if 16" conductor is not found. Hand cement outside of conductor with bag cement (This is to control and capture inadvertent returns from the backside of the 6 5/8" casing)
- 3) Check pressures and bleed off if present.
- 4) Check well TD with cable tools . **Note : If TD is significantly different from the well record TD notify WVDEP Inspector**
- 5) TIH with workstring to TD. Pump 28 bbls. of 6% Gel to circulate the 4 1/2" casing, spot cement plug from 1740 ft. - 1640 ft. (8 sacks - Class A)
- 6) TOOH with workstring to 1000 ft. Spot cement plug from 1000 ft - 900 ft. (8 sacks - Class A)
- 7) TOOH with workstring
- 8) RU and find free point on 4 1/2" casing (Estimate F.P. @ 150 +/- ft.). CUT/RIP 4 1/2" casing @ F.P. (Est. 150 ft.) and pull 4 1/2" casing. **NORM test casing**
- 9) RU and find free point on 6 5/8" casing (Estimate F.P. @ 150 +/- ft.). CUT/RIP 6 5/8" casing @ F.P. (Est. - 150 ft.) and pull 6 5/8" casing. **NORM test casing**
NOTE: If actual TOC on the 4 1/2" casing is deeper then the casing will be cut at the deeper TOC, same for the 6 5/8" casing.
- 10) TIH with workstring to set cement plug across 4 1/2" & 6 5/8" casing cuts to 200 ft. Spot cement plug from 200 ft. - Surface. (85 sacks -Class A)
- 11) TOOH with workstring, top off wellbore with cement if needed
- 12) Erect monument per WVDEP Regs.
- 13) RDMO equipment, dispose of circulated fluids properly
- 14) Reclaim location and access road to WVDEP Regs.

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4708507789P

85-07789

AMERICAN OIL DEVELOPMENT CO.
WELL RECORD.

J. L. Mullendax Grant Ritchie West Virginia
District County State

Well No. 2
Rig Commenced 19 } Regal Drilling Company Contractor,
Rig Completed August 5, 1912 } of
Drilling Commenced August 22, 1912 } Parkersburg, West Va. Contractor,
Drilling Completed 19 }

FORMATIONS	Top	Bottom	Thickness	Oil	Gas	Water	QUALITY
Conductor	10						
Red Rock	165	200	35				
Slate	325	400	75				
Red Rock	400	450	50				
Big Rock	700	800	100				
high Slate Shells	1060	1240	180				
Big Dunkard	1310	1390	80				
Black Slate	1390	1415	25				
Gas	1510	1620	110				
Black Slate	1620	1685	65				
Top Salt Sand	1685						
Top of Pay	1716						
Bottom of Pay		1732	16				
Total Depth	1737						
Bottom Salt Sand		1737	52				

Total Depth 1737 feet at per foot \$ Less use of Gas
days at per foot

CASING RECORD

Size	Charged to Well		Put in Well		Pulled Out		Left in Well		Transferred before Completion		Left at Well, Not in Use		REMARKS
	Feet	In.	Feet	In.	Feet	In.	Feet	In.	Feet	In.	Feet	In.	
10"			85		85								
8 1/2"			960		960								
6 5/8"			1511				1511						

Approved by _____
Production First 24 hours } _____ Supt.

REMARKS

February 1, 1916 - Well shot by The Mundy Block Torpedo Company, Cairo, West Virginia. Shot with 40 quarts. Top of shot 1715' Bottom of shot 1731' - 16' - Cleaning out.
April 1916 - Well cleaned out to bottom.

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THUNDER CORPORATIC

Lease No. Name Well No.
 N. S. E. W. Loc. Made Purchase From 85-07789
 District Grant Dr.'g. Start 22-12 Date Purchase
 County Ritchie Dr.'g. Finish Sold to
 State W. Va. Dr.'g. Cont. or Regal. Dr. Date Sold
 Rights Owner Deepened Abandoned

FORMATION						CASING RECORD				
Kind	Top	Bottom	Mire Line	Tests	Size	Bottom (line)	Bottom (taly)	Pulled	Con	
Red Rock	165	200			Cond.		10'			
Slate	325	400			10"		85'	85'		
Red Rock	400	450			8 1/4"		96'	96'		
Wht. Slate Shells	1060	1240			6 5/8"		1511'			
Rig Dunkard	1310	1415								
Gas	1510	1620								
Black Slate	1620	1685								
Salt Sand	1685	1737								
Fav.	1716	1732								
T.D.		1797								

PACKERS AND SHOES

Kind	Size	Depth Set	Date

TORPEDO RECORD

Date	No. Ots	Shell	Top	Bottom
2-1-46	40		1715	1731
4-1946	Well cleaned to bottom			

DRILLING DEEPER

Start	Finish	Int. Dep.	Fin'h	Con

ABANDONMENT RECORD

Mtl.	From	To	PLUG		
			Size	Kind	Depth

Int. Prod.	Sand	I. P.	30 Days
Oil			
Gas			

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 WV Department of
 Environmental Protection

4708507789P

WW-4A
Revised 6-07

1) Date: 5/17/21
2) Operator's Well Number
J.L. Mullenax #2-44
3) API Well No.: 47 - 085 - 07789

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>Alvin Payne</u>	Name <u>N/A</u>
Address <u>121 1/2 W Ottawa</u>	Address _____
<u>Richwood, OH 4334</u>	_____
(b) Name <u>Carlin L. Payne</u>	(b) Coal Owner(s) with Declaration
Address <u>1121 US Highway 11 Lot 32</u>	Name _____
<u>Gouverneur, NY 13642</u>	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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Environmental Protection

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 20th day of April 2021
Elizabeth A Day Notary
 My Commission Expires 05/06/2023

OFFICIAL SEAL
 Notary Public, State Of West Virginia
 ELIZABETH A DAY
 632 Winery Road
 Buckhannon, WV 26201
 My Commission Expires May 06, 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.

07/02/2021

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7020 2450 0001 6476 9841

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<input type="checkbox"/> Certified Mail Restricted Delivery	\$	
<input type="checkbox"/> Adult Signature Required	\$	
<input type="checkbox"/> Adult Signature Restricted Delivery	\$	
Postage	\$	



Carlin Lee Payne
1121 US Highway 11 Lot 32
Gouverneur, NY 13642

7020 2450 0001 6476 9834

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Extra Services & Fees (check box, add fee as appropriate)		
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<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	\$	



Alvin Payne
121 1/2 W. Ottawa St
Richwood, OH 43344

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MAY 28 2021
WV Department of
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WW-9
(5/16)

JUN 3 2021

API Number 47 - 085 - 07789
Operator's Well No _____

WV Department of
Environmental Protection

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 Any well effluent will be contained in tanks before disposing off-site

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 _____)

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

-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

My commission expires 5/6/2020



07/02/2021

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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Environmental Protection

Title: Oil & Gas Inspector Date: 5/26/21

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

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

N/A

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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.

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.

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

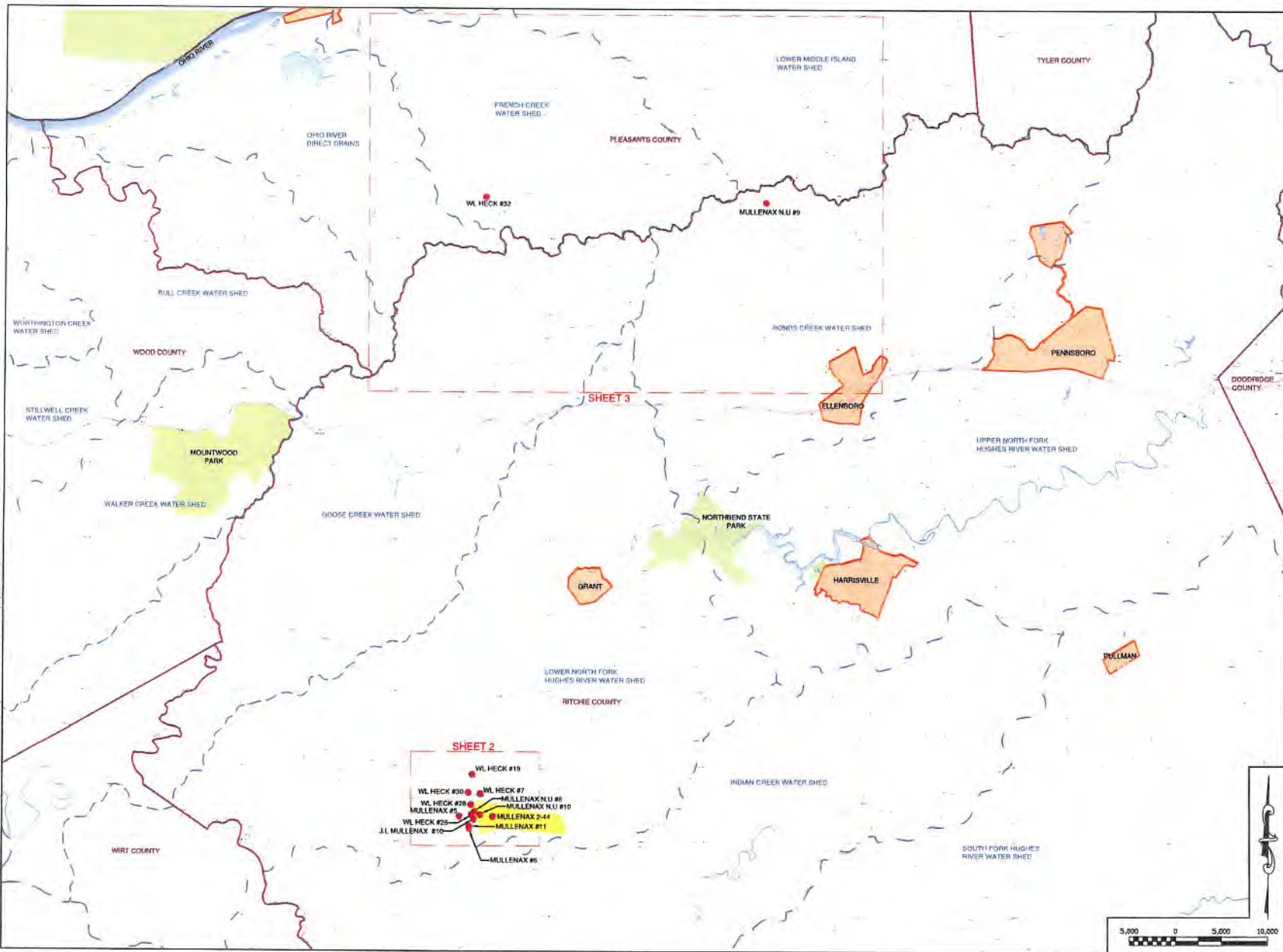
Inspections will be done before and during operations by designated employees.

Signature: Brittany Woody

Date: 5/27/21

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LOCATION MAP NOT TO SCALE

6	
5	
4	
3	
2	
1	

NO. DATE DESCRIPTION

PREPARED FOR:

SEAL:

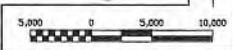
PREPARED BY:

7361 DAVISSON 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

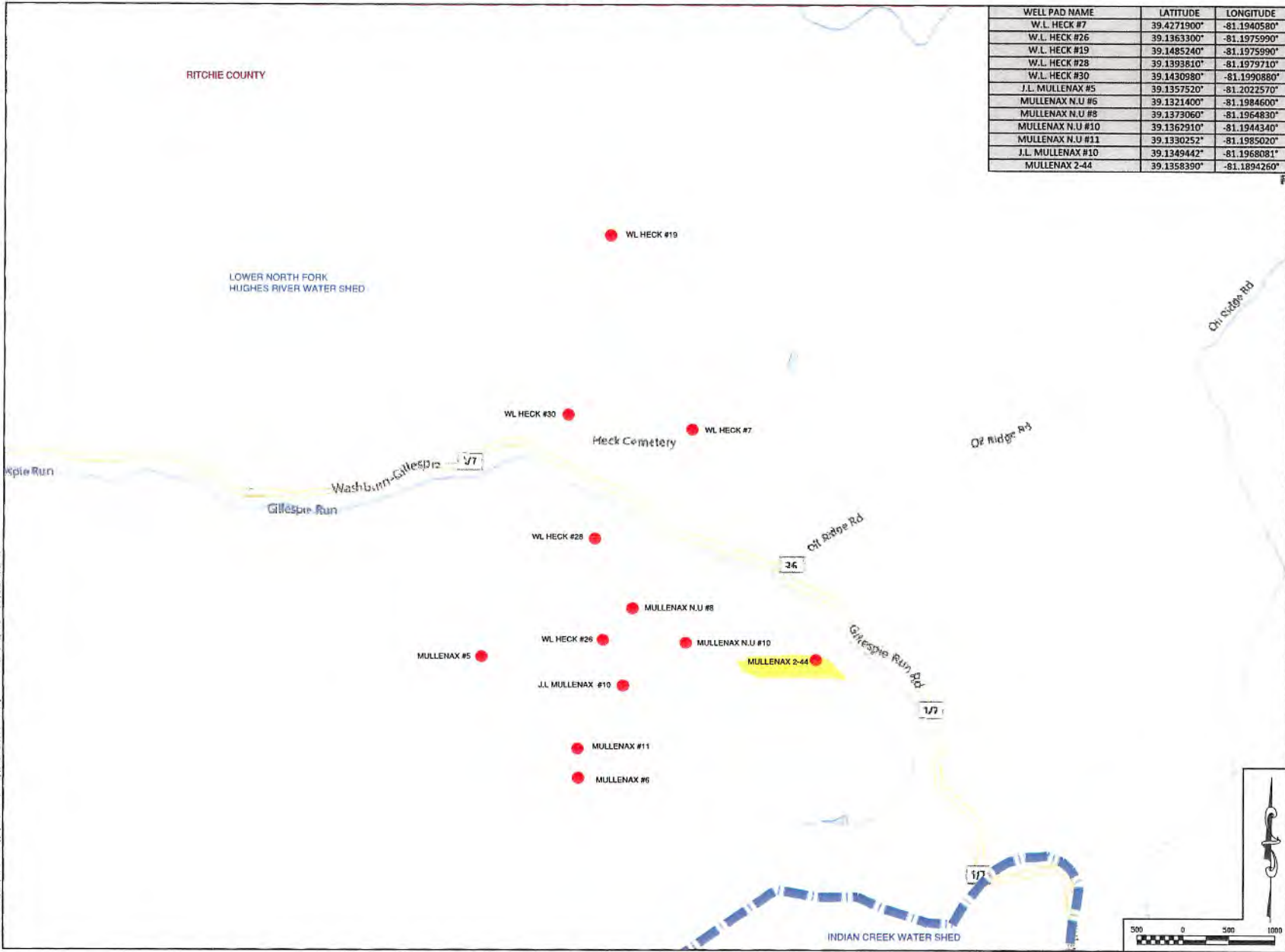
TITLE: **OVERALL PLUGGING MAP**

PLAN STATUS: SHEET NO. 1



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 PLOT DATE/TIME: 4/27/2021 10:42 AM

47-085-07784P



WELL PAD NAME	LATITUDE	LONGITUDE
W.L. HECK #7	39.4271900°	-81.1940580°
W.L. HECK #26	39.1363300°	-81.1975990°
W.L. HECK #19	39.1485240°	-81.1975990°
W.L. HECK #28	39.1393810°	-81.1979710°
W.L. HECK #30	39.1430980°	-81.1990880°
J.L. MULLENAX #5	39.1357520°	-81.2022570°
MULLENAX N.U #6	39.1321400°	-81.1984600°
MULLENAX N.U #8	39.1373060°	-81.1964830°
MULLENAX N.U #10	39.1362910°	-81.1944340°
MULLENAX N.U #11	39.1330252°	-81.1985020°
J.L. MULLENAX #10	39.1349442°	-81.1968081°
MULLENAX 2-44	39.1358390°	-81.1894260°



LOCATION MAP NOT TO SCALE

NO.	DATE	DESCRIPTION

PREPARED FOR
SWn
 Southwestern Energy®

SEAL:

PREPARED BY:

 2361 DAVISSON RUN ROAD, SUITE 103
 CLARKSBURG, WV 26301
 WWW.ASCENTCONSULTINGENGINEERS.COM
 (206) 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. **2**

CAD FILE: S:\Project_2412_Plugging_Map_SWN\Drawings\11-PLUGGING_MAP.dwg
 PLOT DATE/TIME: 4/27/2021 10:31 AM

47-085-077899

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:

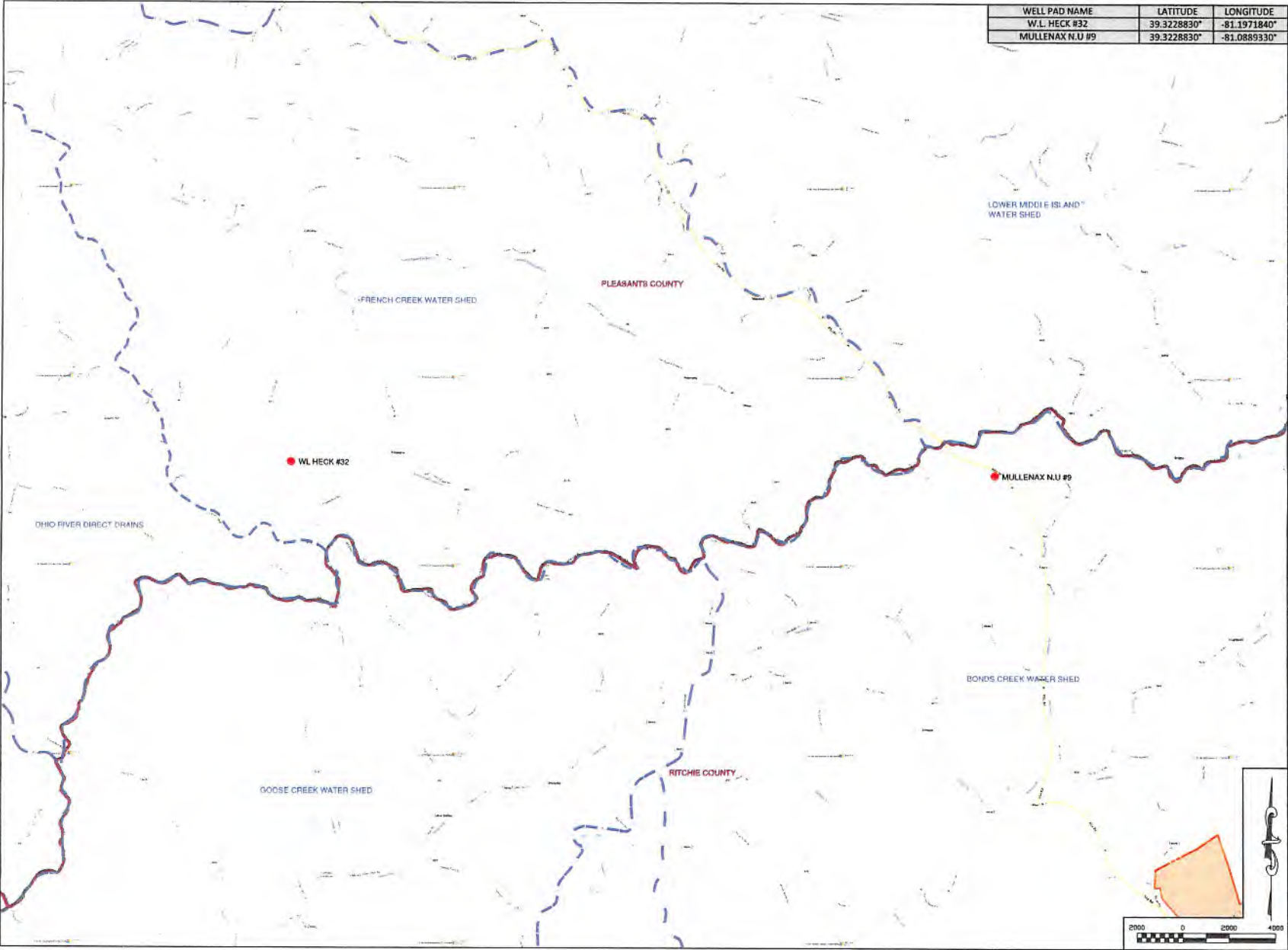
SEAL:

PREPARED BY:

2381 DAVISSON FURN ROAD, SUITE 103
CLARKSBURG, WV 26301
WWW.ASCENTCONSULTINGENGINEERS.COM
(304) 833-3483

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DATE:	4-13-21	DESIGN:	ZLA
SCALE:	AS SHOWN	CHECKED:	MRN

TITLE:	PLUGGING MAP
PLAN STATUS:	SHEET No. 3



C:\P\100_11_1\Project 2412\Project Map 38610\mxd\2412-PLUGGING MAP.dwg
 PLOT DATE/TIME: 4/27/2021 10:32 AM

47-085-07789F

J.L. Mullerap #2-44

4708507789P

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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WV Department of
Environmental Protection

07/02/2021



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

API: 47-085-07789 WELL NO.: 2-44

FARM NAME: J.L. Mullenax

RESPONSIBLE PARTY NAME: Virco

COUNTY: Ritchie DISTRICT: Grant

QUADRANGLE: Cairo

SURFACE OWNER: Alvin Payne & Carlin L. Payne

ROYALTY OWNER: Alvin Payne & Carlin L. Payne

UTM GPS NORTHING: 4,331,867.20

UTM GPS EASTING: 483,629.00 GPS ELEVATION: 898'

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.

Brittany Moody
Signature

Senior Regulatory Analyst
Title

5/27/21
Date

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Office of Oil and Gas
MAY 28 2021
WV Department of
Environmental Protection