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west virginia department of environmental protection

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

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

Tuesday, February 15, 2022  
WELL WORK PLUGGING PERMIT  
Vertical Plugging

DIVERSIFIED PRODUCTION LLC  
101 MCQUISTON DRIVE  
JACKSON CENTER, PA 16133

Re: Permit approval for 1-S-1 55  
47-039-02471-00-00

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: 1-S-1 55  
Farm Name: KANAWHA & HOCKING C & H  
U.S. WELL NUMBER: 47-039-02471-00-00  
Vertical Plugging  
Date Issued: 2/15/2022

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4703902471P

## PERMIT CONDITIONS

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

### CONDITIONS

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

02/18/2022

4703902471P

WW-4B  
Rev. 2/01

1) Date January 26, 2022  
2) Operator's  
Well No. 1-S-155  
3) API Well No. 47 039 02471

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 X or Underground storage \_\_\_) Deep \_\_\_ / Shallow X

5) Location: Elevation 1181.54 feet Watershed Big Ninemile Campbells Creek  
District Malden County Kanawha Quadrangle Quick

6) Well Operator Diversified Production, LLC 7) Designated Agent Jeff Mast  
Address 414 Summers Street Address 31 Hickory Drive  
Charleston, WV 25301 Barboursville, WV 25504

8) Oil and Gas Inspector to be notified 9) Plugging Contractor  
Name Terry Urban Name Diversified Production, LLC (in-house rig)  
Address P.O. Box 1207 Address 1951 Pleasantview Ridge Road  
Clendenin, WV 25045 Ravenswood, WV 26164

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

See Attached

*See Proj Page*

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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 *[Signature]* Date 2/1/22

02/18/2022

**Plugging Prognosis**

API #: 4703902471

West Virginia, Kanawha Co.

Lat/Long: 38.29365402, -81.43646743

Nearest ER: CAMC Memorial Hospital 3200 MacCorkle Ave SE, Charleston, WV 25304

**Casing Schedule:**

10" @ 20'

8-1/4" @ 575' (cement to 256' w/ 100 sxs)

**6-5/8" none left in well**

4-1/2" @ 1,922' (cemented to 1,644' w/ 20 sxs)

2" tbg @ 1,862'

TD @ 1,922'

Completion: Injun - 1,848'-1,850'; 1,860'-1,865'

Fresh Water: 45'

Salt Water: 1,190'

Gas Shows: 1,035'; 1,852'; 1,856'; 1,867'

Oil Shows: None listed

Coal: 39'-40'; 94'-100'; 215'-218'

Elevation: 1,180.98'

*SHOULD BE CTS**IF 85/8" IS CTS, GO TO STEP 13.**gmm**Operator to Cover with Cement all Oil & Gas formation including Elevation, Salt, Freshwater Coal*

1. Notify Inspector Terry Urban @ 304-549-5915, 48 hrs prior to commencing operations.
2. Check and record pressures on csg/tbg.
3. Pull tbg and lay down.
4. Check TD w/ wireline.
5. Run in to depth @ 1,865'. Kill well as needed with 6% bentonite gel and fill rat hole. Pump at least 10 bbls gel. Pump 119' C1A cement plug from **1,867' to 1,748' (perforations and gas shows plug)**. Tag TOC. Top off as needed.
6. TOO H w/ tbg to 1,748'. Pump 6% bentonite gel from 1,748' to 1,240'.
7. Free point 4-1/2" csg. Cut and TOO H. Set 100' C1A cement plug across csg cut. 50' in/out of cut. **Do not omit any plugs listed below. Perforate as needed.**
8. TOO H w/ tbg to 1,240'. Pump 305' C1A cement plug from **1,240' to 935' (gas show, saltwater and elevation plug)**.
9. TOO H w/ tbg to 935'. Pump 6% bentonite gel from 935' to 625'.
10. TOO H w/ tbg to 625'. Pump 100' C1A cement plug from **625' to 525' (8-1/4" csg shoe plug)**.
11. TOO H w/ tbg to 525'. Pump 6% bentonite gel from 525' to 268'.
12. Free point 8-1/4" csg. Cut and TOO H. Set 100' C1A cement plug across csg cut. 50' in/out of cut. **Do not omit any plugs listed below. Perforate as needed.**
13. TOO H w/ tbg to 268'. Pump 268' C1A cement plug from **268' to Surface (coal, freshwater, and surface plug)**.
14. Reclaim location and well road to WV DEP specifications and erect P&A well monument.

*SHOULD BE CTS gmm*

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02/18/2022*August Urban  
2/1/24*



STATE OF WEST VIRGINIA  
DEPARTMENT OF MINES  
OIL AND GAS DIVISION

Rotary   
Spudder   
Cable Tools   
Storage

Quadrangle Clendenin  
Permit No. Kan-2471

WELL RECORD

Oil or Gas Well Gas  
(KIND)

Company Spartan Gas Company 25323  
Address P.O. Box 766, Charleston, W. Va.  
Farm Kan. & Hooking Coal & Coke Acres 14,128  
Location (waters) Campbells Creek  
Well No. 1-3-155 Elev. 1180,98DF  
District Malden County Kanawha  
The surface of tract is owned in fee by Kan. & Hooking Coal & Coke Co. Address Shrewsbury, W. Va.  
Mineral rights are owned by same Address \_\_\_\_\_

Casing and Tubing	Used in Drilling	Left in Well	Packers
Size			Kind of Packer
16			
13			
10	20	20	Size of
8 1/4	575	575	
6 3/4	1704	none	Depth set
5 3/16			
4 1/2	1922	1922	
3			Perf. top 1848
2	1862	1862	Perf. bottom 1850
Liners Used			Perf. top 1860
			Perf. bottom 1865

Drilling commenced 8-25-70  
Drilling completed 10-3-70  
Date Shot \_\_\_\_\_ From \_\_\_\_\_ To \_\_\_\_\_  
With \_\_\_\_\_  
Open Flow 10 /10ths Water in 2" Inch  
\_\_\_\_\_ /10ths Merc. in \_\_\_\_\_ Inch  
Volume 133 M Cu. Ft.  
Rock Pressure 415 lbs. 43 hrs.  
Oil \_\_\_\_\_ bbls., 1st 24 hrs.  
WELL ACIDIZED (DETAILS) \_\_\_\_\_

Attach copy of cementing record.  
CASING CEMENTED 8" SIZE 575' No. Ft. 9-2-70 Date  
Amount of cement used (bags) 100 sacks  
Name of Service Co. Well Service, Inc.  
COAL WAS ENCOUNTERED AT 39 FEET 12 INCHES  
94 FEET 72 INCHES 215 FEET 36 INCHES  
\_\_\_\_\_ FEET \_\_\_\_\_ INCHES \_\_\_\_\_ FEET \_\_\_\_\_ INCHES

WELL FRACTURED (DETAILS) 10-7-70 700 Hbls. water, 30,000 # sand  
RESULT AFTER TREATMENT (Initial open Flow or hbls.) 696 M  
ROCK PRESSURE AFTER TREATMENT 420# HOURS 72 hrs.  
Fresh Water 45 Feet \_\_\_\_\_ Salt Water \_\_\_\_\_ Feet \_\_\_\_\_  
Producing Sand Injun Depth 1860-1865

Formation	Color	Hard or Soft	Top	Bottom	Oil, Gas or Water	Depth	Remarks
Clay			0	5			
Sand			5	39			
Coal			39	40			
Sand			40	45			
Ekn. Sand			45	90			
Slate			90	94			
Coal			94	100			
Slate			100	120			
Sand			120	161			
Lime			161	198			
Slate			198	215			
Coal			215	218			
Slate			218	261			
Sand			261	277			
Slate			277	300			
Lime			300	318			
Slate			318	475			
Lime			475	480			
Sand			480	566			
Slate			566	600			
Sand			600	700			
Lime			700	709			
Sand			709	757			
Slate			757	761			
Lime			761	775			
Sand			775	839			
Slate			839	846			
Ekn. Sand			846	915			
Slate			915	923			

HFV 45  
Coal

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Formation	Color	Hard or Soft	Top	Bottom	Oil, Gas or Water	Depth Found	Remarks
Sand			923	1040			Show Gas 1035'
Bkn. Sand			1040	1085			
Sand			1085	1318			Water at 1190'
Bkn. Sand			1318	1348			
Slate			1348	1353			
Bkn. Sand			1353	1379			
Sand			1379	1408			
Slate-Shell			1408	1415			
Sand			1415	1450			
Red Rock			1450	1452			
Slate-Shell			1452	1501			
Sand			1501	1537			
Slate			1537	1540			
Lime			1540	1548			
Sand			1548	1591			
Lime			1591	1607			
Slate			1607	1622			
Lime			1622	1661			
Slate			1661	1668			
Big Lime			1668	1675			
Slate			1675	1687			
Lime			1687	1856			
Injun Sand			1856	1900			
Lime			1900	1903			
Slate-Shell			1903	1942			
Lime			1942	1977			
Slate-Shell			1977	2099			
Bkn. Sand			2099	2141			
Slate-Shell			2141	2159			
TOTAL DEPTH				2159			
Plug back to 1922'					Gas:	1852	8/10 W2"
						1856	12/10 W2"
						1867	14/10 W2"
							Decreased to 10/10 W2"
10-5-70 - Ran & cemented 4 1/2" csg. at 1922' circulated gel to surface ahead of 20 sks. cement.							

Elevation

Mason  
Salt  
Water

Caps

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Date October 20, 1970

APPROVED SPARTAN GAS COMPANY, Owner

By William T. J. [Signature]  
(Title) President

02/18/2022

WW-4A  
Revised 6-07

1) Date: January 26, 2022  
2) Operator's Well Number  
1-S-155

3) API Well No.: 47 - 039 - 02471

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

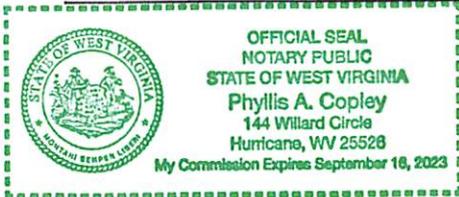
4) Surface Owner(s) to be served:	5) (a) Coal Operator
(a) Name <u>ACIN, LLC</u>	Name <u>None</u>
Address <u>5260 Irwin Road</u>	Address _____
<u>Huntington, WV 25705</u>	_____
(b) Name _____	(b) Coal Owner(s) with Declaration
Address _____	Name <u>ACIN, LLC C/O NRP (Operating) LLC</u>
_____	Address <u>5260 Irwin Road</u>
_____	<u>Huntington, WV 25705</u>
(c) Name _____	Name _____
Address _____	Address _____
_____	_____
6) Inspector <u>Terry Urban</u>	(c) Coal Lessee with Declaration
Address <u>P.O. Box 1207</u>	Name <u>Investment Management Group, LLC</u>
<u>Clendenin, WV 25045</u>	Address <u>4010 MacCorkle Avenue, SE</u>
Telephone <u>304-549-5915</u>	<u>Charleston, WV 25304</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 Diversified Production, LLC  
 By: [Signature] Jeff Mast  
 Title: Director Production  
 Address 414 Summers Street  
Charleston, WV 25301  
 Telephone 304-543-6988

Subscribed and sworn before me this 28th day of January 2022  
Phyllis A. Copley Notary Public  
 My Commission Expires September 16, 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](mailto:depprivacyofficer@wv.gov).

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4-5-155  
47-039-0247LP

7020 3160 0000 1694 9985

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Charleston, WV 25304

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	\$3.05	03
Extra Services & Fees (check box, add fee as appropriate)		
<input type="checkbox"/> Return Receipt (hardcopy)	\$0.00	Postmark Here
<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	\$2.16	01/28/2022
Total Price	\$8.96	
Sent To	3-S-158, 4-S-160, 1-S-155	
Street	Investment Management Group	
City, State	4010 MacCorkle Avenue SE	
	Charleston, WV 25304	
PS Form		Instructions

7020 3160 0000 1694 9982

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Huntington, WV 25705

**OFFICIAL USE**

Certified Mail Fee	\$3.75	0523
	\$3.05	03
Extra Services & Fees (check box, add fee as appropriate)		
<input type="checkbox"/> Return Receipt (hardcopy)	\$0.00	Postmark Here
<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	\$2.16	01/28/2022
Total Price	\$8.96	
Sent To	3-S-158, 4-S-160, 1-S-155	
Street	ACIN LLC	
City, State	C/O NRP (Operating) LLC	
	5260 Irwin Road	
	Huntington, WV 25705	
PS Form		Instructions

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02/18/2022

WW-9  
(5/16)

API Number 47 - 039 - 02471  
Operator's Well No. 1-S-155

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

Operator Name Diversified Production, LLC OP Code 494524121

Watershed (HUC 10) Big Ninemile Campbells Creek Quadrangle Quick

Do you anticipate using more than 5,000 bbls of water to complete the proposed well work? Yes  No

Will a pit be used? Yes  No

If so, please describe anticipated pit waste: Produced fluid and cement returns

Will a synthetic liner be used in the pit? Yes  No  If so, what ml.? 20

Proposed Disposal Method For Treated Pit Wastes:

- Land Application (if selected provide a completed form WW-9-GPP)
- Underground Injection ( UIC Permit Number 2D03902327 002 )
- 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? N/A

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.

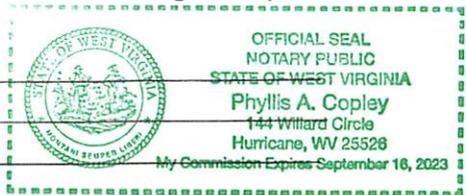
I certify that I understand and agree to the terms and conditions of the GENERAL WATER POLLUTION PERMIT issued on April 1, 2016, by the Office of Oil and Gas of the West Virginia Department of Environmental Protection. I understand that the provisions of the permit are enforceable by law. Violations 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 [Signature]

Company Official (Typed Name) Jeff Mast

Company Official Title Director Production



Subscribed and sworn before me this 28th day of January, 2022

[Signature] Notary Public

My commission expires September 16, 2023

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Proposed Revegetation Treatment: Acres Disturbed 1 +/- Prevegetation pH \_\_\_\_\_

Lime 3 Tons/acre or to correct to pH 6.5

Fertilizer type \_\_\_\_\_ 10-20-20 or equivalent

Fertilizer amount \_\_\_\_\_ lbs/acre

Mulch 2 Tons/acre

Seed Mixtures

Temporary		Permanent	
Seed Type	lbs/acre	Seed Type	lbs/acre
Red Fescue	40	Red Fescue	15
Alsike	5	Alsike Clover	5
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: [Signature]

Comments: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

Title: Inspection of 2645

Date: 2-1-22

Field Reviewed? (  ) Yes (  ) No

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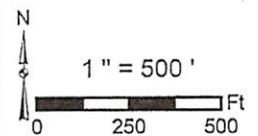
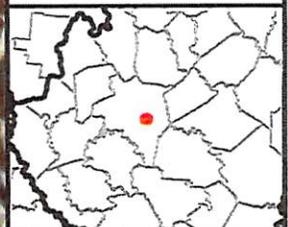
Diversified Gas & Oil  
Corporation  
100 Diversified Way  
Pikeville KY, 41051

47-039-02471

Plugging Map

### Legend

- Well
- Access Road
- ▨ Pits
- Pad
- Public Roads



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4703902471P

4703902471P

WW-7  
8-30-06



West Virginia Department of Environmental Protection  
Office of Oil and Gas

**WELL LOCATION FORM: GPS**

API: 4703902471 WELL NO.: 1

FARM NAME: Kan & Hocking Coal & Coke Co.

RESPONSIBLE PARTY NAME: Diversified Production LLC

COUNTY: Kanawha DISTRICT: Malden

QUADRANGLE: Quick

SURFACE OWNER: ACIN LLC

ROYALTY OWNER: William A McMillan Etal

UTM GPS NORTHING: 4238486.62

UTM GPS EASTING: 461832.86 GPS ELEVATION: 1181.54

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.

  
Signature

Digitally signed by Austin Suttler  
Date: 2022.01.17 08:51:25  
-05'00

Sr. Proj. Manager  
Title

1/17/2022  
Date

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Environmental Protection

02/18/2022



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

**Plugging Vertical Well Work Permit API: 47-039-02471 & 47-039-02507)**

1 message

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

Tue, Feb 15, 2022 at 8:45 AM

To: "Mast, Jeff" <jmast@dgoc.com>, Sallie Robinson <sallierobinson@kanawha.us>, "Urban, Terry W" <terry.w.urban@wv.gov>

Terry,

I have printed off IR-8s for you.

I have attached a copy of the newly issued well [permit](#) number. This will serve as your copy.

**47-039-02471 - 1-S-1 55**  
**47-039-02507 - 4-S-160**

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](mailto:Wade.A.Stansberry@wv.gov)

**3 attachments**

**IR-8 Blank.pdf**  
216K

**47-039-02471 - Copy.pdf**  
3230K

**47-039-02507 - Copy.pdf**  
3569K

02/18/2022