



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, December 22, 2021
WELL WORK PLUGGING PERMIT
Vertical Plugging

DIVERSIFIED PRODUCTION LLC
414 SUMMERS STREET
CHARLESTON, WV 25301

Re: Permit approval for 73-BW
47-081-01024

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: 73-BW
Farm Name: WESTERN POCAHONTAS PROP.
U.S. WELL NUMBER: 47-081-01024
Vertical Plugging
Date Issued: 12/22/2021

Promoting a healthy environment.

12/24/2021

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4708101024P

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.

12/24/2021

1) Date December 6, 2021
2) Operator's
Well No. 73-BW
3) API Well No. 47-081 - 01024

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 2333.67 feet Watershed Grave Fork
District Slab Fork County Raleigh Quadrangle Lester

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 Gary Kennedy Name Diversified Production, LLC (in-house rig)
Address 66 Old Church Lane Address 1951 Pleasantview Ridge Road
Pipestem, WV 25979 Ravenswood, WV 26164

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

See Attached

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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 *Gary Kennedy* Date 12/7/21

12/24/2021

Plugging Prognosis

API #: 4708101024

West Virginia, Raleigh County

Lat/Long: 37.69919073, -81.36582724

Nearest ER: Raleigh General Emergency Room - 1710 Harper Rd, Beckley, WV 25801

Casing Schedule

12-3/4" @ 22'

7" @ 1,547' (Cemented to surface w/ 315 sxs)

4-1/2" @ 3,094' (Cemented to 2,306' w/ 70 sxs)

TD @ 3,094'

Completion: Big Lime: 2,972'-3,018' (42 holes); Middle Maxton 2,344-2,374' (67 holes)

Fresh Water: 208'

Salt Water: None listed

Gas Shows: None listed

Oil Shows: None listed

Coal: No shows

Elevation: 2,340'



1. Notify Inspector Gary Kennedy @ 304-382-8402, 48 hrs prior to commencing operations.
2. Check and record pressures on csg/tbg.
3. Check TD w/ wireline.
4. Run in to total depth @ 3,018'. Kill well as needed with 6% bentonite gel and fill rat hole with gel. Pump at least 10 bbls gel. Pump 146' C1A cement plug from 3,018' - 2,872' (Big Lime 2972 - ?
Completion) Tag TOC. Top off as needed.
5. TOOH w/ tbg to 2,872'. Pump 6% bentonite gel from 2,872' to 2,374'.
6. TOOH w/ tbg to 2,374'. Pump 134' C1A cement plug from 2,374' - 2,240' (Middle Maxton
Completion, Elevation plug).
7. TOOH w/ tbg to 2,240'. Pump 6% bentonite gel from 2,283' to 1,547'.
8. Free point 4-1/2" csg. Cut and TOOH. Set 100' C1A cement plug across csg cut. 50' in/out of cut.
Pump 6% bentonite gel from top of plug to 1,597'. **Do not omit any plugs listed below. Perforate
as needed.**
9. TOOH w/ tbg to 1,597'. Pump 100' C1A cement plug from 1,597' to 1,497' (7 csg shoe plug).
10. TOOH w/ tbg to 1,497'. Pump 6% bentonite gel from 1,497' to 258'
11. TOOH w/ tbg to 258'. Pump 258' C1A cement plug from 258' to surface. (fresh water and
surface plug)
12. Reclaim location and well road to WV DEP specifications and erect P&A well monument.

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12/24/2021

WR-35

22-Mar-96
API# 47-081-01024

STATE OF WEST VIRGINIA
OFFICE OF OIL AND GAS
MAY 01 1996
WV DIVISION

State of West Virginia
Division of Environmental Protection
Section of Oil and Gas

Well Operator's Report of Well Work

Farm Name: WESTERN POCAHONTAS PROP. Operator Well No.: 73-BW
LOCATION: Elevation: 2,340.00 Quadrangle: LESTER
District: SLAB FORK County: RALEIGH
Latitude: 3350 FEET SOUTH OF 37 DEG. 42 MIN. 30 SEC.
Longitude: 9450 FEET WEST OF 81 DEG. 20 MIN. 0 SEC.

Company: PEAKE ENERGY, INC.
P. O. BOX 8
RAVENSWOOD, WV 26164-0008

Agent: THOMAS S. LIBERATORE

Inspector: GLEN ROBINSON
Permit Issued: 03/29/96
Well Work Commenced: 06/25/96
Well Work Completed: 06/29/96
Verbal Plugging _____
Permission Granted on: _____
Rotary X Cable _____ Rig _____
Total Depth (feet): 3149
Fresh Water Depths (ft): _____
208
Salt Water Depths (ft): _____
Is coal being mined in the area (Y/N)? N
Coal Depths (ft): _____

Casing & Tubing Size	Used in Drilling	Left In Well	Cement Fill Up Cu. Ft.
12 3/4	22	22	---
7	1547	1547	315 CLASS A
4 1/2	3094	3094	70 CLASS A

TSK

OPEN FLOW DATA

Producing formation BIG LIME Pay zone depth (ft) 2972-3018
Gas Initial open flow 0 MCF/D Oil: Initial open flow 0 BBL/D
Final open flow * MCF/D Final open flow 0 BBL/D
Time of open flow between initial and final tests _____ Hours
Static rock pressure _____ psig (surface pressure) after _____ Hours
Second producing formation MIDDLE MAXTON Pay zone depth (ft) 2344-2374
Gas Initial open flow 0 MCF/D Oil: Initial open flow 0 BBL/D
Final open flow 300 MCF/D Final open flow 0 BBL/D
Time of open flow between initial and final tests _____ Hours
Static rock pressure 200 psig (surface pressure) after 24 Hours

* OPEN FLOWS ARE COMMINGLED.
NOTE: ON BACK OF THIS FORM PUT THE FOLLOWING: 1) DETAILS OF PERFORATED INTERVALS, FRACTURING OR STIMULATING, PHYSICAL CHANGE, ETC; 2) THE WELL LOG WHICH IS A SYSTEMATIC DETAILED GEOLOGICAL RECORD OF ALL FORMATION, INCLUDING COAL ENCOUNTERED BY THE WELLBORE.

For: Thomas S. Liberatore
PEAKE ENERGY, INC.
By: Thomas S. Liberatore, General Manager
Date: 10/31/96

RAL 1024

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WV Department of Environmental Protection

FORM WR-35
(Reverse)

PERMIT #: 47-081-01024
CO. WELL #: 73-BW
ELEVATION: 2,340 GL, 2,350 KB

DETAILS OF PERFORATING, FRACTURING, OR PHYSICAL CHANGE, ETC.

07/24/96: PERFORATED THE BIG LIME FROM 2972-3018 WITH 42 HOLES. FRAC'D THE BIG LIME WITH 8000 GALLONS OF 15% HCl ACID, 150 BBL OF WATER, 81 MSCF OF NITROGEN, AND 600 BBL OF WATER. PERFORATED THE MIDDLE MAXTON FROM 2344-2374 WITH 67 HOLES. FRAC'D THE MAXTON WITH 490 MSCF OF NITROGEN, 61,000# OF SAND, AND 227 BBL OF WATER.

WELL LOG (all depths taken from KB)

ROCK TYPE OR FORMATION	TOP	BOTTOM	REMARKS
SAND & SHALE	0	101	
SAND	101	166	
SHALE	166	207	
SAND	207	306	
SAND & SHALE	306	497	
SAND	497	685	
SAND & SHALE	685	1080	
SAND	1080	1118	
SHALE	1118	1181	
SAND & SHALE	1181	1592	
PRINCETON SAND	1592	1647	
SHALE	1647	1776	
RAVENCLIFF SAND	1776	1840	
SHALE	1840	1850	
AVIS LIME	1850	1890	
SHALE	1890	2256	
SAND	2256	2266	
SHALE	2266	2333	
MIDDLE MAXTON SAND	2333	2337	
SHALE	2337	2640	
LOWER MAXTON	2640	2662	
SHALE	2662	2740	
LITTLE LIME	2740	2827	
SHALE	2827	2880	
BIG LIME	2880	3149	
TOTAL DEPTH	3149		

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12/24/2021
WV Department of
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WW-4A
Revised 6-07

1) Date: December 6, 2021
2) Operator's Well Number
73-BW

3) API Well No.: 47 - 081 - 01024

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

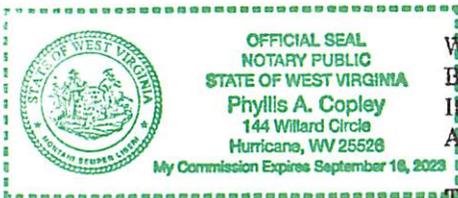
4) Surface Owner(s) to be served:	5) (a) Coal Operator
(a) Name <u>Western Pocahontas Properties LP</u>	Name <u>None</u>
Address <u>5260 Irwin Road</u>	Address _____
<u>Huntington, WV 25705</u>	_____
(b) Name _____	(b) Coal Owner(s) with Declaration
Address _____	Name <u>Western Pocahontas Properties, LP</u>
_____	Address <u>5260 Irwin Road</u>
_____	<u>Huntington, WV 25705</u>
(c) Name _____	Name _____
Address _____	Address _____
_____	_____
6) Inspector <u>Gary Kennedy</u>	(c) Coal Lessee with Declaration
Address <u>66 Old Church Road</u>	Name <u>Mabon Coal</u>
<u>Pipestem, WV 25979</u>	Address <u>One Carbon Center, Suite 501, 13095 MacCorkle Avenue, SE</u>
Telephone <u>304-382-8402</u>	<u>Chesapeake, WV 25315</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-5. 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 _____ day of _____

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.

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4708101024P
 73-BW
 47-081-01024

7020 2450 0001 5225 2225

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Charleston, WV 25315

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Certified Mail Fee	\$3.75	
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<input type="checkbox"/> Return Receipt (hardcopy)	\$0.00	
<input type="checkbox"/> Return Receipt (electronic)	\$0.00	
<input type="checkbox"/> Certified Mail Restricted Delivery	\$0.00	
<input type="checkbox"/> Adult Signature Required	\$0.00	
<input type="checkbox"/> Adult Signature Restricted Delivery	\$0.00	
Postage	\$1.56	
Total	\$8.36	

Postmark Here
 0523 03
 12/07/2021

73-BW
 Maben Coal
 One Carbon Center, Suite 501
 13095 MacCorkle Avenue, SE
 Chesapeake, WV 25315

PS Instructions

7020 2450 0001 5225 2218

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Huntington, WV 25705

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Certified Mail Fee	\$3.75	
Extra Services & Fees (check box, add fees as appropriate)	\$3.05	
<input type="checkbox"/> Return Receipt (hardcopy)	\$0.00	
<input type="checkbox"/> Return Receipt (electronic)	\$0.00	
<input type="checkbox"/> Certified Mail Restricted Delivery	\$0.00	
<input type="checkbox"/> Adult Signature Required	\$0.00	
<input type="checkbox"/> Adult Signature Restricted Delivery	\$0.00	
Postage	\$1.56	
Total	\$8.36	

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 12/07/2021

73-BW
 Western Pocahontas Properties LP
 5260 Irwin Road
 Huntington, WV 25705

PS See Reverse for Instructions

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 Environmental Protection

12/24/2021

WW-9
(5/16)

API Number 47 - 081 - 01024
Operator's Well No. 73-BW

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) Grave Fork (05070101000671) Quadrangle Crab Orchard

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 Twin Branch 47471511)
- 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

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WV Department of Environmental Protection

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.

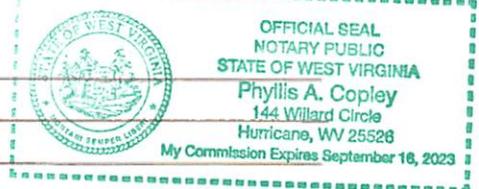
I certify that I understand and agree to the terms and conditions of the GENERAL WATER POLLUTION PERMIT issued on April 1, 2016, by the Office of Oil and Gas of the West Virginia Department of Environmental Protection. I understand that the provisions of the permit are enforceable by law. Violations 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 _____ day of _____, 2021

Notary Public

My commission expires September 16, 2023

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

Lime 3 Tons/acre or to correct to pH 6.05

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: Inspector Date: 12/7/21

Field Reviewed? () Yes () No

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

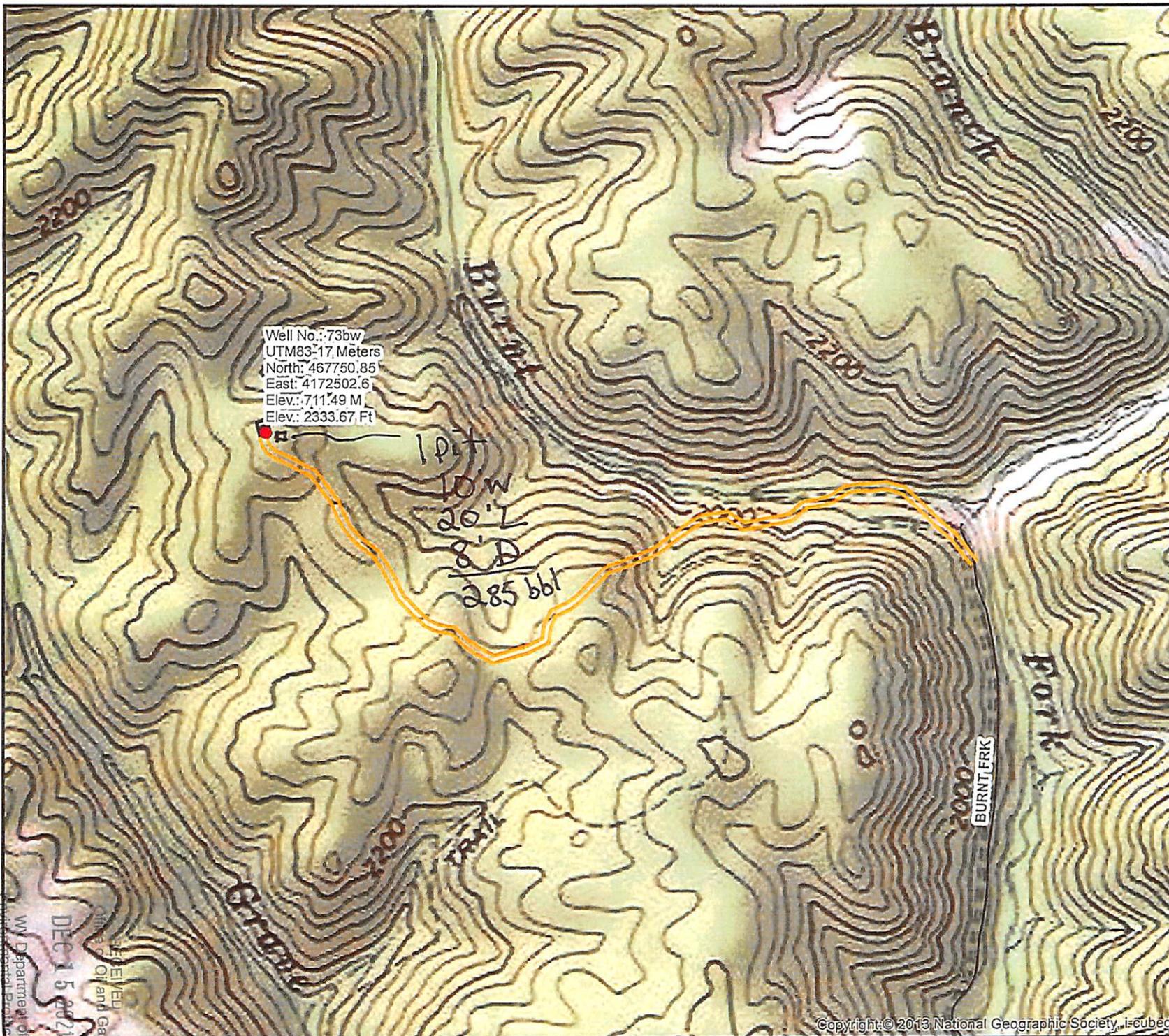
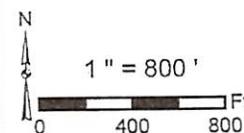
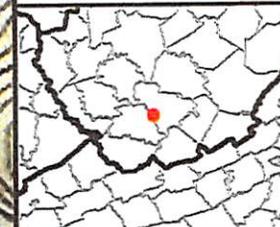
47-081-01024

Plugging Map

Legend

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

JS



Well No.: 73bw
UTM83: 17 Meters
North: 467750.85
East: 4172502.6
Elev.: 711.49 M
Elev.: 2333.67 Ft

1 pit
10 W
20' L
8' D
285 bbl

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WV Department of
Energy
Office of Oil and Gas
DEC 15 2021

4708101024P



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

Plugging Vertical Well Work Permit Diversified

1 message

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

Wed, Dec 22, 2021 at 12:31 PM

To: "Mast, Jeff" <jmast@dgoc.com>, raleigh@wvassessor.com, "Kennedy, Gary L" <gary.l.kennedy@wv.gov>

I have attached a copy of the newly issued well [permit](#) numbers:

47-081-01024
47-081-01061
47-081-01064
47-081-01086

These will serve as your copy.

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

5 attachments

-  **47-081-01086 - Copy.pdf**
1238K
-  **47-081-01061 - Copy.pdf**
1303K
-  **47-081-01064 - Copy.pdf**
3203K
-  **47-081-01024 - Copy.pdf**
3210K
-  **IR-8 Blank.pdf**
183K

12/24/2021