

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

Friday, August 26, 2022 WELL WORK PLUGGING PERMIT Coal Bed Methane Well Plugging

DIVERSIFIED PRODUCTION LLC 101 MCOUISTON DRIVE

JACKSON CENTER, PA 16133

Re:

Permit approval for WPHC-216A

47-109-03001-00-00

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: WPHC-216A

Farm Name: HEARTWOOD FORESTLAN

U.S. WELL NUMBER: 47-109-03001-00-00

Coal Bed Methane Well Plugging

Date Issued: 8/26/2022

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.

WW-4B Rev. 2/01

1)	Date	April	18		,	2022	
2)	Oper	ator	's		-		
	Well	No.	WPHC-2	216A			
3)	API	Well	No.	47-109		- 03001	

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

	OFFICE OF	OIL AND GAS
	APPLICATION FOR A PERI	MIT TO PLUG AND ABANDON
4)	Well Type: Oil/ Gas X / Liquid	d injection/ Waste disposal /
	(If "Gas, Production X or Unc	derground storage) Deep/ Shallow X
= .	2004.05.6	I - I - I - I - I - I - I - I - I - I -
5)		Watershed Laurel Branch of Laurel Fork
	District Slab Fork	County Wyoming Quadrangle McGraws
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
		2 413 5 41 6 111 6 1 7 1 7 1 2 6 6 7
8)	Oil and Gas Inspector to be notified	9) Plugging Contractor
	Name Gary Kennedy	Name R & J Well Services
	Address 66 Old Church Lane	Address P.O. Box 40
	Pipestem, WV 25979	Hueysville, KY 41640-0040
	See Atta	office of Oil and Gas APR 2 5 2022 WV Department of Environmental Protection
Joti Jork	fication must be given to the district oi can commence. order approved by inspector	l and gas inspector 24 hours before permitted

Plugging Prognosis

API#: 4710903001

Casing Schedule:

16" @ 38' 9 5/8" @ 338' (CTS w/ 165 cu ft) 7" @ 800' (CTS w/ 224 cu ft)

TD listed as 909' Estimated kickoff @ 825'

- B Hole
 - 28,000' x 4.75" Hole ID = 3,445 Cu ft = 766 BBL w/ 125% excess

Completion – Pilot Well for CBM production, projected depth of coal seam 898' to 903'. Unknown if well has bridge plug in it.

Fresh Water: None listed Salt Water: None listed Gas Shows: None listed Oil Shows: None listed Coal: 27, 428, 732, 898 Elevation: 2078'

- 1. Notify Inspector Gary Kennedy @ 304-382-8402, 48 hrs prior to commencing operations.
- 2. Record pressure on csg.
- 3. Tag TD and record TD.
- 4. Kill well as needed with 6% bentonite gel.
- 5. Bridge lateral with bentonite pellets. Top not to exceed 850'
- 6. TIH w/ tbg to 850'. Pump 168' C1A cement plug from 850' to 682' (7" csg shoe plug and coal show). Tag TOC
- 7. TOOH w/ tbg to 682'. Pump 6% bentonite gel spacer from 682' to 478'.
- 8. TOOH w/ tbg to 478'. Pump 190' C1A cement plug from 478' to 288' (9 5/8" csg shoe plug and coal show). Tag TOC
- 9. TOOH w/ tbg to 288'. Pump 6% bentonite gel spacer from 288' to 100'.
- 10. Confirm 7" csg is cemented to surface. If not TOOH w/ tbg. Free point csg and set plug 50' in/out of cut for total of 100'.
- 11. TOOH w/ tbg to 100'. Pump 100' C1A cement plug from 100' to surface
- 12. Reclaim site and set monument per WV DEP regulations.
- 13. Note: The uncased 4 3/4" wellbore from curve to lateral will be filled w/ gel/cement from the production wells (47-109-02326 & 47-109-02327) when plugging them.

RECEIVED Office of Oil and Gas

5 2022

WV Department of Environmental Protection

DATE: 12/16/200847 1 0 9 0 3 0 0 1

API#:: 4710903001C

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

Well Operator's Report of Well Work

OCATION Elevation: 2078	φ.	Quadra	ingle: McGraws 7	1/2
		Quaura	ingle. McGraws /	1/2
District: Slab Fork		County: Wy	oming	
Latitude: 4000 Feet South of 37	Deg. 40	Min. 00	Sec.	
Longitude: 8850 Feet West of 81	Deg. 27	Min. 30	Sec.	
ompany:				
enn Virginia Oil & Gas Corporation	Casing and Tubing	Used in drilling	Left in well	Cement fill up Cu. Ft.
Address: Seven Sheridan Square, Suite 200	16"	38'	38'	
Kingsport, TN 37660	9 5/8"	338'	338'	140sks/165c
Agent: Bryant Bowman	7"	800'	800'	190sks/224c
Inspector: Barry Stollings			1	
Date Permit Issued: 05/02/2008				
Date Well Work Commenced: 06/30/2008				
Date Well Work Completed: 07/08/2008		,		
Verbal Plugging:				Proper and respire or services
Date Permission granted on: Rotary X Cable Rig	-			Proceeding .
Total Depth (feet): 909				1 2 2 2 2 A S
Fresh Water Depth (ft):		-		- LAN 1 Dress
None Reported				41873
Marketine and the second secon				WV Gapericonioi
Salt Water Depth (ft):				LE COMMENCE Protection
None Reported				and the state of t
Is coal being mined in area (N/Y)? N	-			
Coal Depths (ft):			1	
27'; 428'; 732'; 898'	- 1		15	
JW				
OPEN FLOW DATA			(0)	
			ă .	
Producing formation No production from this well		Pav z	zone depth (ft)	a a a
Gas: Initial open flow MCF/d Oil:	Initial open flow	Name and Additional Property of the Party of	ol/d	*
F: 1 6	al open flow	Bbl/d		58 20
Time of open flow between initial and final tes	sts:	Hours		
Static rock pressure psig (surface pr		Hours		
Second producing formation			i tan o	
Constalling of the second	laikiel e	Pay zone d		
First 6	Initial open flow		bl/d	
Time of open flow between initial and final tes	al open flow	Bbl/d		:
Static rock pressure psig (surface pres		Hours		BECEIVED Ga
psig (surface pres	sure) aner	Hours	** (#	Office of Oil and Ga
NOTE OF THE STATE	VING: 1). DETAIL	S OF PERFOR	AITH I I O O	20 1) 1) 1
NOTE: ON BACK OF THIS FORM PUT THE FOLLOW INTERVALS, FRACTURING OR STIMULATING, PHY WHICH IS A SYSTEMATIC DETAILED GEOLOGICAL COAL ENCOUNTERED BY THE WELLBORE.	CICAL CHANE	TEC. 2), THE V LL FORMATIO	INS, INCLUDING	W Departmen
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47 1 0 9 0 3 0 0 1 PERMIT #4710903001C

WELL #: WPHC-216A

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

APR

FORMATIONS	TOP	BOTTOM	REMARKS	
Sand & Shale	0000	0027		
Coal	0027	0029		
Sand & Shale	0029	0428		
Coal	0428	0431	it.	
Sand & Shale	0431	0732	TD Vertical Hole @600' TVD	
Coal	0732	0736	Begin curve for horizontal laterals	
Sand & Shale	0736	0898		
Pocahontas 6 Coal	0898	0903		

RECEIVED Gas Office of Oil and Gas APR 25 2022 W Department of Environmental Protection WW-4A Revised 6-07

1) Date:	April 18, 2022			
2) Operator WPHC-216	's Well Numb	er		
3) API Well	No : 47 -	109	03001	

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

4)	Surface Own	er(s) to be served:	5) (a) Coal Operator		
	(a) Name	Lyme Mountaineer Timberlands	Name	West Virginia Mid Vol Inc.	
	Address	23 South Main	Address	836 Euclid Avenue, Sulte 302	
		Hanover, NH 03755		Lexington, KY 40502	
	(b) Name		(b) Coal Own	ner(s) with Declaration	
	Address		Name	West Virginia Mid Vol Inc.	
			Address	836 Euclid Avenue, Suite 302	
				Lexington, KY 40502	
	(c) Name		Name		
	Address		Address		
6)	Inspector	Gary Kennedy	(c) Coal Less	see with Declaration	
	Address	66 Old Church Lane	Name	Prime Met, Inc.	
		Pipestem, WV 25979	Address	836 Euclid Avenue, Sulte 302	
	Telephone	304-382-8402		Lexington, KY 40502	

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

- 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.

WEST AND ADDRESS OF THE PARTY O	OFFICIAL SEAL NOTARY PUBLIC STATE OF WEST VIRGINIA Phyllis A. Copley	Well Operator By: Its:	Diversified Production, LLC Jeff Mast Director Technical Services	
	144 Willard Circle Hurricane, WV 25528	Address	414 Summers Strret	
1 Sent	My Commission Expires September 16, 2023	7	Charleston, WV 25301	
******		Telephone	304-543-6988	
				BECEIVE

Subscribed and sworn before me this 18th day of April 2022

Office of Oil and Gas

My Commission Expires

September 16, 2023

Notary Public

APR 2 5 2022

Oil and Gas Privacy Notice

WV Department of Environmental Protection

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 depprivacyoffier@wv.gov.



47-169-030017 WPHC-216A



Office of Oil and Gas

APR 2 0 2022

WV Department of Environmental Protection



WW-9 (5/16)

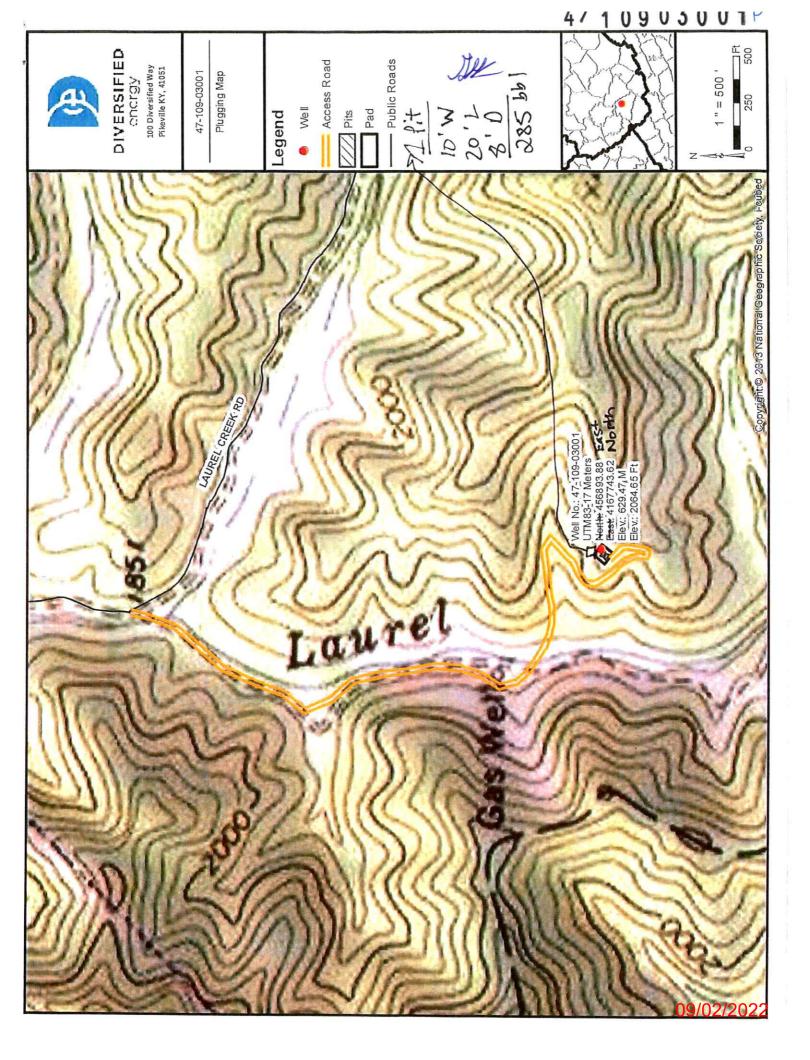
API Number	47 -	109	_ 03001	
Operator's W	ell No	, WP	HC-216A	

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

FLUIDS/ CUTTINGS DISPOSAL & RECLAMATION PLAN

OD G 1 404534121
Operator Name_Diversified Production, LLC OP Code 494524121
Watershed (HUC 10) Laurel Branch of Laurel Fork Quadrangle McGraws
Do you anticipate using more than 5,000 bbls of water to complete the proposed well work? Yes No No
Will a pit be used? Yes V No 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 systembe 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, etcN/A
-If left in pit and plan to solidify what medium will be used? (cement, lime, sawdust) N/A RECEIVED
-Landfill or offsite name/permit number? N/A Office of Oil and Gas
Permittee shall provide written notice to the Office of Oil and Gas of any load of drill cuttings or associated waste rejected at any R 2 5 2022 West Virginia, solid waste facility. The notice shall be provided within 24 hours of rejection and the permittee shall also disclose
W/ Department of
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 o btaining 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
Company Official (Typed Name) Jeff Mast Phyllis A. Copley
Company Official Title Director Technical Services Hurricane, WV 25528
My Commission Expires September 16, 2023 8 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
Subscribed and sworn before me this day of cpul, 2022
Plania
Mylles a - Oply Notary Public
My commission expires September 16, 2023

***************************************	tment: Acres Disturbed 1 +/-		
	Tons/acre or to correct to		
Fertilizer type	10-20-20 or equivalent	<u>-</u>	
Fertilizer amount_		_lbs/acre	
Mulch 2	Tc	ons/acre	
	į	Seed Mixtures	
Te	emporary	Perma	nnent
Seed Type	lbs/acre	Seed Type	lbs/acre
Red Fescue	40	Red Fescue	15
Alsike	5	Alsike Clover	5
Annual Rye	15		
Maps(s) of road, location, provided). If water from the L, W), and area in acres, of	pit will be land applied, provid	pplication (unless engineered plans include water volume, include dimensions (L.	ding this info have been, W, D) of the pit, and din
provided). If water from the L, W), and area in acres, of	pit will be land applied, provide the land application area. lved 7.5' topographic sheet.	pplication (unless engineered plans include water volume, include dimensions (L.	, W, D) of the pit, and din
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WW-7 8-30-06



West Virginia Department of Environmental Protection Office of Oil and Gas

WELL LO	CATION FORM: GPS	
_{API:} 4710903001	WELL NO.: V	VPHC-216A
FARM NAME: Heartwood	Forestland Fund	
RESPONSIBLE PARTY NAME:	Diversified Producti	on LLC
COUNTY: Wyoming	bistrict: Sla	ab Fork
QUADRANGLE: McGraws	, WV	
SURFACE OWNER: Lyme N	lountaineer Timberl	ands
ROYALTY OWNER: DP Blu		
UTM GPS NORTHING: 41677		
UTM GPS EASTING: 456893		_{ION:} 2064.65
The Responsible Party named above preparing a new well location plat for above well. The Office of Oil and G the following requirements: 1. Datum: NAD 1983, Zone height above mean sea le 2. Accuracy to Datum – 3.0 3. Data Collection Method: Survey grade GPS: Post Pr	or a plugging permit or assigned A as will not accept GPS coordinate e: 17 North, Coordinate Units: movel (MSL) – meters.	API number on the es that do not meet
Real-T	ime Differential	
Mapping Grade GPS X : Post	Processed Differential X	
Rea	l-Time Differential	
I the undersigned, hereby certify this belief and shows all the information prescribed by the Office of Oil and O	required by law and the regulation Gas.	knowledge and ons issued and
Signature	Sr. Proj. Manager	4/12/2022 Affice of Oil all Date APR 2 5 2022
Signature	THE	Date AFR Pepartment
		EAX 62/202

Well: WPHC-216A API: 47-109-03001

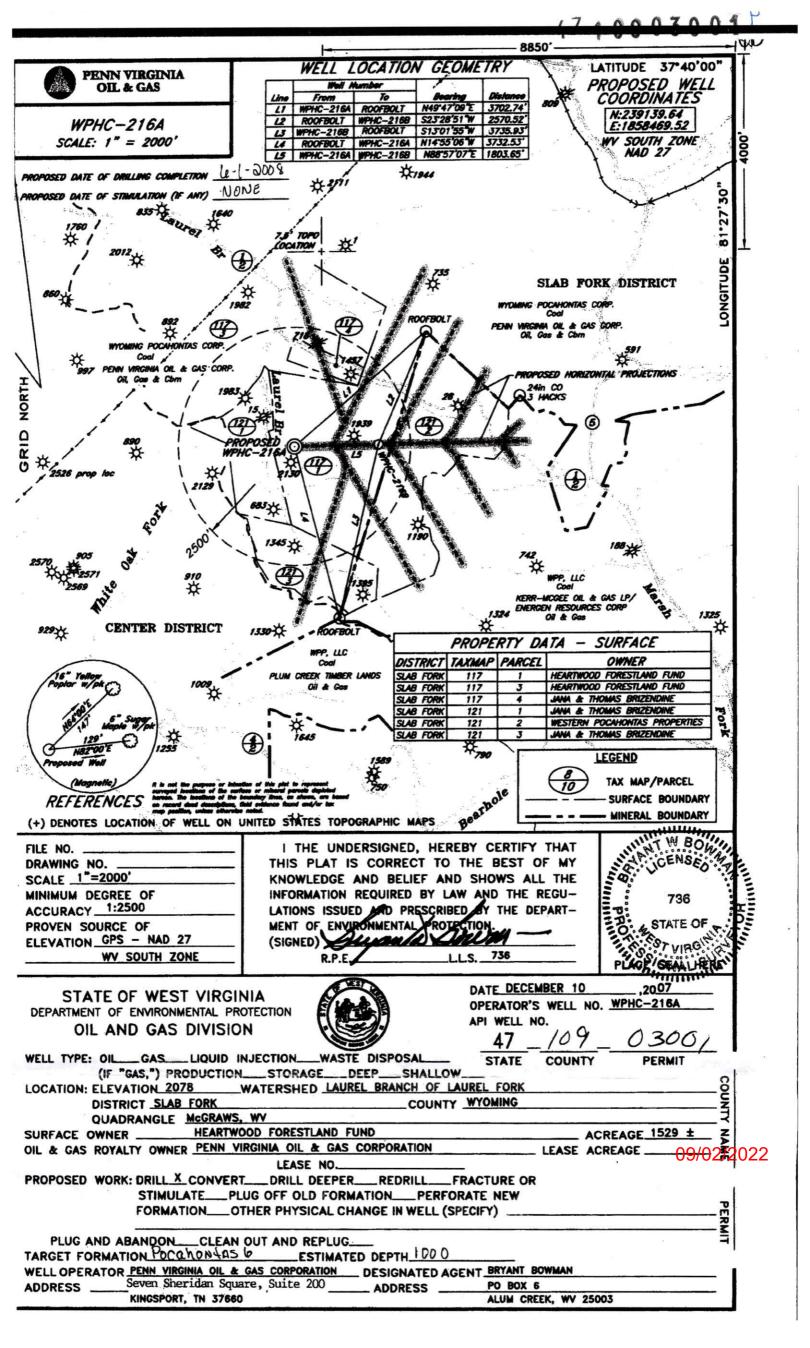
PLUGGING PERMIT CHECKLIST

Plugging Permit
WW-4B WW-4B signed by inspector WW-4A
SURFACE OWNER WAIVER or PROOF THAT APPLICATION WAS SENT BY REGISTERED OR CERITFIED 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

Office of Oil and Gas

APR 2 0 2022

WV Department of Environmental Protection





Kennedy, James P < james.p.kennedy@wv.gov>

plugging permit issued for 4710303001 4710303002

1 message

Kennedy, James P < james.p.kennedy@wv.gov> Fri, Aug 26, 2022 at 10:12 AM To: asutler@dgoc.com, Phyllis Copley <pcopley@dgoc.com>, Gary L Kennedy <gary.l.kennedy@wv.gov>, mecook2@assessor.state.wv.us

To whom it may concern, plugging permits have been approved for 4710303001 4710303002.

James Kennedy

WVDEP OOG

3 attachments





