

## 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, October 26, 2022
WELL WORK PLUGGING PERMIT
Coal Bed Methane Well Plugging

DIVERSIFIED PRODUCTION LLC 101 MCQUISTON DRIVE

JACKSON CENTER, PA 16133

Re:

Permit approval for LCHC-007B

47-109-02405-00-00

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: LCHC-007B

Farm Name: POCAHONTAS LAND CORP

U.S. WELL NUMBER: 47-109-02405-00-00

Coal Bed Methane Well Plugging

Date Issued: 10/26/2022

## **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.

## **Plugging Prognosis**

API#: 4710902405

Casing Schedule: No record used offset 109-02406 (Same well pad)

13 3/8" @ 32' CTS 9 5/8" @ 308' 7" @ 1553' CTS

TD listed as 1,642'

Estimated lateral from plat

- B Hole (109-02405)
  - o 18,500' x 4.75" Hole ID = 2,276 Cu ft = 506 BBL w/ 125% excess

Fresh Water: None listed Salt Water: None listed Gas Shows: None listed Oil Shows: None listed Coal: None Listed

Elevation: 2438' (Offset 2440')

USE EXPANDING CEMENT.

All

- 1. Notify Inspector Gary Kennedy @ 304-382-8402, 48 hrs prior to commencing operations.
- 2. Record pressure on csg.
- 3. TOOH w/ rods and tbg.
- 4. Kill well with gel as needed. Then proceed to load wellbore with gel to a minimum of 125% capacity until wellbore is filled.
- 5. Proceed to load wellbore with bentonite pellets. Top is not to exceed 1603'
- TIH w/ tbg to 1603'. Pump 100' C1A cement plug from 1603' to 1503' (7" csg shoe plug). Tag TOC
- 7. TOOH w/ tbg to 1503'. Pump 6% bentonite gel spacer from 1503' to 358'.
- 8. 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'.
- 9. TOOH w/tbg to 358'. Pump 358' C1A cement plug from 358' to surface
- 10. Reclaim site and set monument per WV DEP regulations.

RECEIVED
Office of Oil and Gas

MAY 0 3 2022

WV Department of Environmental Protection WR-35

DATE: 12/21/2005 AP#:: 4710902405C

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

## Well Operator's Report of Well Work

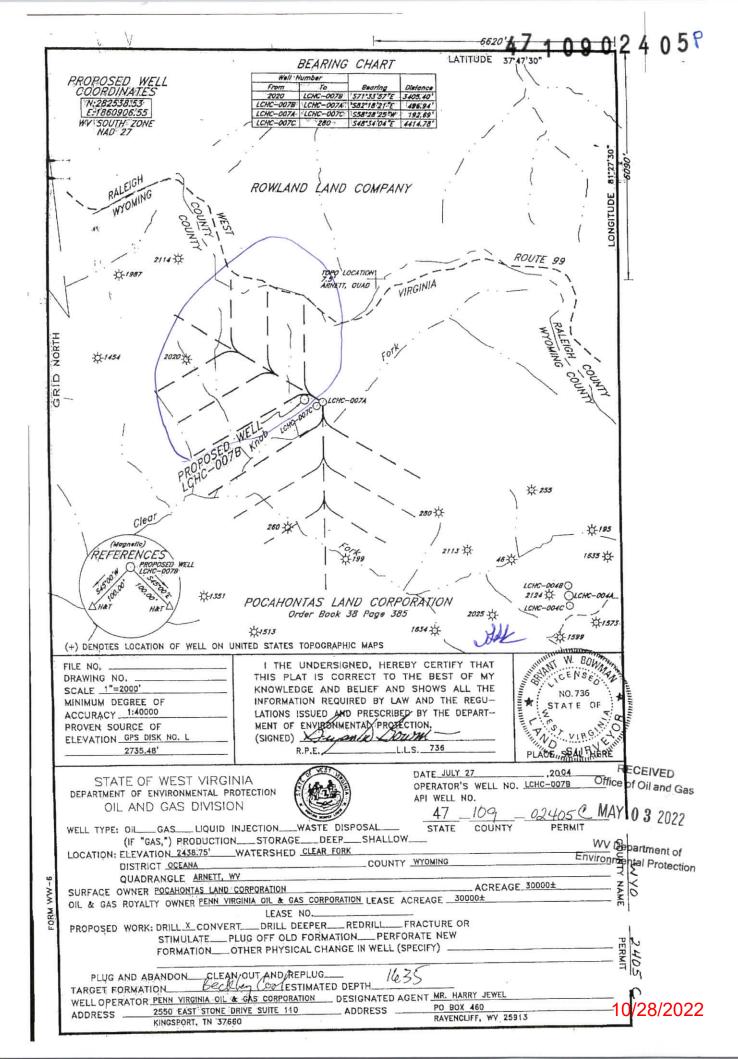
arm Name Pocahontas Land Corporation	-	Opera	tor Well No.: LCH	C-007B
OCATION: Elevation: 2438.75		Quadra	ingle: Arnett 7 1/2'	
District: Oceana		County: Wy	/oming	
Latitude: 6090 Feet South of 37	Deg. 47	Min. 30	Sec	
Longitude: 6620 Feet West of 8		Min. 30	Sec.	
ompany:	La	1		
enn Virginia Oil & Gas Corporation	Casing and Tubing	Used in drilling	Left in well	Cement fill up Cu. Ft.
Address: 2550 East Stone Drive, Suite 110	13 3/8"	32"	32'	41 cu ft
Kingsport, TN 37660	9 5/8"	305	305'	165 cu ft
Agent: Harry Jewell	- · <del>7</del> "	1548'	1548	354 cu ft
Inspector: Ralph Triplett		-	T	- 1
Date Permit Issued: 09/23/2004	+	<del> </del>	· ·	
Date Well Work Commenced: 09/30/2004	-		<del> </del>	<del></del>
Date Well Work Completed: 01/21/2005	_ i	<del></del>	<del></del>	<del> </del>
Verbal Plugging:	_!	<del>-</del>	+ <del></del>	<del></del>
Date Permission granted on:				
Rotary X Cable Rig		111	EN I	
Total Depth (feet): 1,650		DEC ?		<del></del>
Fresh Water Depth (ft).	1 7		MB /	
NA		UEC	TE MONT.	1 1
Salt Water Depth (ft):	1	L WATER	HCTON	
NA	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	DEC 2		
Is coal being mined in area (N/Y)?	- j			
Coal Depths (ft):	_			<del> </del>
Con Coping (ny				
	· F:	1		
	i .			!
OPEN FLOW DATA				
_				RECEIVED
Producing formation Lower Beckley Coal	<del> </del>		zone depth (ft)	Office of Oil & Gas Office of Chief
	il: Initial open flow		lbl/d	Opposition of the second
	inal open flow	Bbi/d		DEC 2 9 2005
Time of open flow between initial and final t		Hours		
Static rock pressure psig (surface	pressure) after	Hours	<b>}</b>	WV Department of
Second producing formation		Pay zone	depth (ft)	Environmental Protect
	Dil: Initial open flow		Bbl/d	
	inal open flow	Bbl/d		
Time of open flow between initial and final t	ests:	Hours		
Static rock pressurepsig (surface pr	ressure) after	Hours	i	
NOTE: ON BACK OF THIS FORM PUT THE FOLLO INTERVALS, FRACTURING OR STIMULATING, PI WHICH IS A SYSTEMATIC DETAILED GEOLOGIC COAL ENCOUNTERED BY THE WELLBORE.	HYSICAL CHANE	TEC. 2). THE	WELL LOG	i.
Signed: Michael Stamb	er	•		

FORM WR-35R (REVERSE)

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

PERMIT #4710902405C WELL #: LCHC-007B

FORMATIONS	TOP	BOTTOM	REMARKS
Sandstone/Shale	0	470	
Coal	470	472	
Sandstone/Shale	472	530	
Coal	530	532	
Sandstone/Shale	532	1050	
Coal	1050	1052	
Sandstone/Shale	1052	1592	
Coal (Lower Beckiey)	1592	1596	
Sandstone/Shale	1596	1650	



WW-4A Revised 6-07

1)	Date:	April 26, 2022			
2)	Operator's LCHC-007B	Well Number			
3)	API Wall N	0:47	109	02405	

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

4)	Surface Own	ner(s) to be served:	5) (a) Coal Operator	
	(a) Name	Pocahontas Surface Interest	Name	None
	Address	P.O. Box 1517	Address	
		Bluefield, WV 24701		
	(b) Name		(b) Coal Own	ner(s) with Declaration
	Address		Name	Pocahontas Royalties LLC
			Address	P.O. Box 1517
				Bluefield, WV 24701
	(c) Name		Name	
	Address		Address	
6) ]	Inspector	Gary Kennedy	(c) Coal Less	see with Declaration
	Address	66 Old Church Lane	Name	Consol Mining Company LLC
		Pipestem, WV 25979	Address	CNX Center Suite 100, 1000 Consol Energy Drive
	Telephone	304-382-8402		Cannonsburg, PA 15317

## 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.

	OFFICIAL SEAL NOTARY PUBLIC STATE OF WEST VIRGINIA Phyllis A. Copley 144 Willard Circle Hurricane, WV 25528 Commission Expires September 16, 2023	Well Operator By: Its: Address	Diversified Production, LLC  Jeff Mast  Difector Technical Services  414 Summers Strret	
200000000000000000000000000000000000000		Telephone	Charleston, WV 25301 304-543-6988	RECEIVED Office of Oil and Gas
Subscribed		is Jam da	ax of april, 2022	MAY 0 3 2022
My Comm	ission Expires September 1	hyllis a.	Notary Public	WV Department of Environmental Protection
Oil and Gas	Privacy Notice			10000

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.

47-109-02-405 LCHC-007B



tructions

WW-9 (5/16)

API Numbe	er 4	7 -	. 1	09	_	02405	
Operator's	Wel	IN	lo.	LC	HC-0	07B	

# 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) Clear Fork Quadrangle Arnett	
Do you anticipate using more than 5,000 bbls of water to complete the proposed well work? Yes No _	$\checkmark$
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, 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 West Virginia solid waste facility. The notice shall be provided within 24 hours of rejection and the permittee shall where it was properly disposed.	rejected at any Il also disclosc
I certify that I understand and agree to the terms and conditions of the GENERAL WATER POLLUTION on April 1, 2016, by the Office of Oil and Gas of the West Virginia Department of Environmental Protection. It provisions of the permit are enforceable by law. Violations of any term or condition of the general permit and/or or regulation can lead to enforcement action.  I certify under penalty of law that I have personally examined and am familiar with the information application form and all attachments thereto and that, based on my inquiry of those individuals immediately responsible information, I believe that the information is true, accurate, and complete. I am aware that there are signification formation, including the possibility of fine or imprisonment.	understand that the ther applicable law submitted on this nsible for o btaining
Company Official Signature	NOTARY PUBLIC STATE OF WEST VIRGINIA
Company Official (Typed Name) Jeff Mast	Phyllis A. Copley 144 Willard Circle
Company Official Title Director Technical Services	Hurricane, WV 25528 mission Expires September 16, 2023
bendennessessessessessessessessessessessesse	
Subscribed and sworn before me this day of Quy, 2022	RECEIVED Office of Oil and Gas
Mu comprission cominge September 16, 2023	MAY 0 3 2022

WV Department of Environmental Protection

	atment: Acres Disturbed 1772	Preveg etation pl	·
Lime 3	Tons/acre or to correct to pH	605	
Fertilizer type	10-20-20 or equivalent		
Fertilizer amount_	lbs	s/acre	
Mulch_2	Tons/a	cre	
	Seed	<u>Mixtures</u>	
Т	emporary	Perma	nent
Seed Type	lbs/acre	Seed Type	lbs/acre
Red Fescue	40	Red Fescue	15
Alsike	5	Alsike Clover	5
Annual Rye	15		
provided). If water from the L, W), and area in acres, o	e pit will be land applied, provide was f the land application area.	ter volume, include dimensions (L,	ding this info have been W, D) of the pit, and dimensio
Plan Approved by:	e pit will be land applied, provide was of the land application area.  olved 7.5' topographic sheet.  Huy Kewwel	ter volume, include dimensions (L,	W, D) of the pit, and dimension
Photocopied section of involute Approved by:	e pit will be land applied, provide was of the land application area.  olved 7.5' topographic sheet.  Huy Kewwel	ter volume, include dimensions (L,	W, D) of the pit, and dimension
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rovided). If water from the L, W), and area in acres, or thotocopied section of involved and Approved by:	e pit will be land applied, provide was of the land application area.  olved 7.5' topographic sheet.  Huy Kewwel	ter volume, include dimensions (L,	W, D) of the pit, and dimension
rovided). If water from the control of the control	e pit will be land applied, provide was of the land application area.  olved 7.5' topographic sheet.  Huy Kewwel	ter volume, include dimensions (L,	W, D) of the pit, and dimension
Plan Approved by:	e pit will be land applied, provide was of the land application area.  olved 7.5' topographic sheet.  Huy Kewwel	ter volume, include dimensions (L,	W, D) of the pit, and dimensio
provided). If water from the L, W), and area in acres, or Photocopied section of investigations.	e pit will be land applied, provide was of the land application area.  olved 7.5' topographic sheet.	ter volume, include dimensions (L,	W, D) of the pit, and dimensio

WW-7 8-30-06



# West Virginia Department of Environmental Protection Office of Oil and Gas

WELL LOC	CATION FORM: GPS		
<sub>API:</sub> 4710902405	WELL NO.: 10	)7 B	_
FARM NAME: Pocahontas	Land Corporation		_
RESPONSIBLE PARTY NAME:	Diversified Production	on LLC	_
	Oce		_
QUADRANGLE: Arnett, WV			
SURFACE OWNER: Pocahor		t	
ROYALTY OWNER: Summit	Nat Resources/DP Blu	egrass LLC	_
UTM GPS NORTHING: 41809			
UTM GPS EASTING: 457634	.66 GPS ELEVATION	<sub>ON:</sub> 2426.97	a —
The Responsible Party named above preparing a new well location plat for above well. The Office of Oil and Gathe following requirements:  1. Datum: NAD 1983, Zone: height above mean sea level 2. Accuracy to Datum – 3.05 3. Data Collection Method: Survey grade GPS: Post Pro-	a plugging permit or assigned As will not accept GPS coordinates  17 North, Coordinate Units: met rel (MSL) – meters.	PI number on the s that do not meet	
	me Differential		RECEIVED Office of Oil
Mapping Grade GPS X : Post	Processed Differential		Office of Oil and Gas MAY 0 3 2022
	pography map showing the wel	Il location.	
I the undersigned, hereby certify this belief and shows all the information prescribed by the Office of Oil and G	data is correct to the best of my keequired by law and the regulation	knowledge and En	WV Department of vironmental Protection
Digitally signed by Austin Sutler Date: 2022.04.14 15:30:13	Sr. Proj. Manager	4/14/2022	)
Signature	Title	Date	

109024057 800 DIVERSIFIED energy · Public Roads Access Road 100 Diversified Way Pikeville KY, 41051 47-109-02405 Plugging Map 1 " = 800 400 Well Pits Legend North: 457634.66 East: 4180966.33 Elev:,739.93 M

WW-4B Rev. 2/01

1) Date	April:	26		1	2022	
2) Oper						
Well	No. L	CHC-0	07B			
3) API	Well	No.	47-109		- 02405	

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

20	APPLICATION FOR A PER	AIT TO PLUG AND ABANDON A CBM WELL,
4)	Well Type: Oil/ Gas X/ Liquid	
5)	Location: Elevation 2426.97 ft	Watershed Clear Fork
	District Oceana	County Wyoming Quadrangle Arnett
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  Name Gary Kennedy	Name R & J Well Services
	Address 66 Old Church Lane Pipestem, WV 25979	Address P.O. Box 40 Hueysville, KY 41640-0040
	ripesterii, WW 20070	Tradyerme, IXI Tre to de te
T	See Att HIS IS A LATERAL CBM P AS A PINNATE SYSTEM.	
T	HIS IS A LATERAL COM P	RODUCTION WELL DRILLED
T	HIS IS A LATERAL COM P	RODUCTION WELL DRILLED  RECEIVED  Office of Oil and Gas



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

## plugging permit issued for 471092406, 2405, and 2404

1 message

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

Wed, Oct 26, 2022 at 2:39 PM

To: Austin Sutler <asutler@dgoc.com>, Phyllis Copley <pcopley@dgoc.com>, Gary L Kennedy <gary.l.kennedy@wv.gov>, mecook2@assessor.state.wv.us

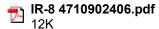
To whom it may concern, plugging permits have been issued for 471092406, 2405, and 2404.

James Kennedy

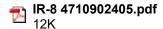
WVDEP OOG

#### 6 attachments











IR-8 4710902404.pdf 12K