

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

Thursday, July 14, 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-008B

47-109-02494-00-00

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-008B

Farm Name: POCAHONTAS LAND CORP.

U.S. WELL NUMBER: 47-109-02494-00-00

Coal Bed Methane Well Plugging
Date Issued: 7/14/2022

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	e Apri	25		, 2022	
2)Ope	rator	' S		,	
Well	l No.	LCHC-0	08B		
3)API				- 02494	

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

	Office of	OIL AND GAS			
	APPLICATION FOR A PER	MIT TO PLUG AND ABANDON A CBM WELL.			
4)	4) Well Type: Oil/ Gas X _/ Liquid injection/ Waste disposal/				
	(If "Gas, Production X or Underground storage) Deep/ Shallow X				
		J/ Beep/ SharrowX			
5)	Location: Elevation 2751.73 ft	Watershed Rockhouse Fork of Clear Fork			
	District Oceana	County_Wyoming Quadrangle_Arnett			
C)	Divorais of Double				
6)	Well Operator Diversified Production, LLC	7) Designated Agent Jeff Mast			
	Address 414 Summers Street Charleston, WV 25301	Address 31 Hickory Drive			
	Chaneston, WV 25301	Barboursville, WV 25504			
8)	Oil and Gas Inspector to				
	Oil and Gas Inspector to be notified Name Gary Kennedy				
	Address 66 Old Church Lane	Name R & J Well Services			
	Pipestem, WV 25979	Address P.O. Box 40			
		Hueysville, KY 41640-0040			
	THIS IS A PRODUCTION CBM UPINNATE SYSTEM,				
		Office of Oil and Gas			
		MAY 0 3 2022			
		WV Department of Environmental Protection			
Notif work	ication must be given to the district oil can commence.	and gas inspector 24 hours before permitted			
Work	order approved by inspector A	Enurs Date 4/29/22			

Plugging Prognosis

API#: 4710902494

Casing Schedule:

13 3/8" @ 85 (CTS w/ 24 cu ft) 9 5/8" @ 1194' (CTS w/ 502 cu ft) 🗸 7" @ 1768' (CTS w/401 cu ft)

TD listed as 1,892

Estimated lateral from plat

B Hole

o 30,500' x 4.75" Hole ID = 3,750 Cu ft = 835 BBL w/ 125% excess



Fresh Water: None listed Salt Water: None listed Gas Shows: None listed Oil Shows: None listed Coal: None Listed Elevation: 2759'

MUST USE EXPANDING CEMENT FROM 200' BELOW LOWEST 1001 ABOUL COAL.

- 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 1818'
- 6. TIH w/ tbg to 1818'. Pump 100' C1A cement plug from 1818' to 1718' (7" csg shoe plug). Tag
- 7. TOOH w/ tbg to 1718'. Pump 6% bentonite gel spacer from 1718' to 1244'.
- 8. TOOH w/ tbg to 1244. Pump 100' C1A cement plug from 1244' to 1144' (9 5/8" csg shoe plug)
- 9. TOOH w/ tbg to 1144'. Pump 6% bentonite gel spacer from 1144' 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.

RECEIVED Office of Oil and Gas

MAY 0 3 2022

WV Department of Environmental Protection WR-35

DATE: 02/22/2006 API#:: 4710902494C

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

Well Op	erator's Repo	ort of Well Work	(
Farm Name Pocahontas Land Corporation		Ор	erator Well No.: LCH	HC-008B	
LOCATION: Elevation: 2759.2	_		 adrangle: Amett 7 1/2		
District: Oceana		County:	Wyoming		
Latitude: 13770 Feet South	of 37 Deg.	47 Min.	30 Sec.		1
Longitude: 10240 Feet West	of 81 De	g. 27 Min.	30 Sec.		i
_		· · · · · · · · · · · · · · · · · · ·			1
Company: Penn Virginla Oil & Gas Corporation	Casing Tubing		Left in well	Cement fill up Cu. Ft.	
Address: 2550 East Stone Drive, Suite 110	13 3/8	85'	85'	24 cu ft	
Kingsport, TN 37660	9 5/8"	1194'	1194'	502 cu ft	ì
Agent: Jim Burns	7*	1768'	1768'	401 cu ft	1
Inspector: Ralph Triplett				401.001	
Date Permit Issued: 03/01/2005				 	1
Date Well Work Commenced:					
Date Well Work Completed: 06/13/2005					
Verbal Plugging:		-			
Date Permission granted on: Rotary X Cable Rig					
Rotary X Cable Rig Total Depth (feet): 1,892					
Fresh Water Depth (ft):					
rison ristor Depth (ig.					1
Is coal being mined in area (N/Y)? Coal Depths (ft):					
Coal Deptins (it):			Jak	NEUSIVED ASS	RECEIVED Office of Oil and Gas
OPEN FLOW DATA	U Cla		\ \ \ \	ffice of Oil & Gas Office of Chief	MAY 0 3 2022
Producing formation Lower Beckley Coal		P	ay zone depth (ft)	-rp 2 7 2006	7 2022
Gas: Initial open flow MCF/d	Oil: Initial ope		Bbl/d F	EB 21 2000	WY Dal.
Final open flow MCF/d	Final open flo	w Bbl/c		WV Department of	WV Department of
Time of open flow between initial and	final tests:	Hours	Ec	vironmental Pro	Environmental Protection
Static rock pressure psig (su	face pressure) a	fter Ho	urs	Charles and the Control of the Contr	Sec. 2000
Second producing formation		D	- 111-100		1
Gas: Initial open flow MCF/d	Oil: Initial op		ne depth (ft)		ı
Final open flow MCF/d	Final open fle	man angeren	BbVd Vd		
Time of open flow between initial and		Hours	lv u		
	ce pressure) afte		ırs		
NOTE: ON BACK OF THIS FORM PUT THE F INTERVALS, FRACTURING OR STIMULATIN WHICH IS A SYSTEMATIC DETAILED GEOL COAL ENCOUNTERED BY THE WELLBORE.	G PHYSICAI C	HANE TEC OL TI	IT INTELL LOO		W YO
Signed: Frehand	Modde	2			ັ້ຣ 07/15/2022
Date: _ ? ~ ? ? ~ _	06				# 0111012022

FORM WR-35R (REVERSE)

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

PERMIT #.4710902494C : WELL #: LCHC-008B

FAR			
FORMATIONS	TOP	BOTTOM	REMARKS
Sandstone/Shale	0	204	
Coal	204	210	
Sandstone/Shale	210	242	
Coal (Lower Beckley)	242	248	
Sandstone/Shale	248	518	
Coal	518	524	
Sandstone/Shale	524	846	
Coal	846	848	
Sandstone/Shale	848	1827	
Coal (Lower Beckley)	1827	1837	Turned Horizontal
Sandstone/Shale	1834	1888	

DAVENCLIFF WV 25913

WW-4A Revised 6-07

1)	Date:	April 25, 2022			
2)	Operator's LCHC-008B	r's Well Number			
3).	API Well N	o.: 47 -	109	02494	

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

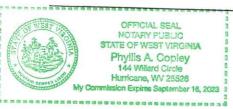
4) Surface Ow (a) Name Address	Pocahontas Land P.O. Box 1517 Bluefield, WV 24701	5) (a) Coal Operator Name None Address	
(b) Name Address		(b) Coal Owner(s) with Declaration Name West Virginia Mid Vol Inc.	1
(c) Name Address		Address 836 Euclid Avenue, Suite 302 Lexington, KY 40502 Name Address	
) Inspector Address	Gary Kennedy 66 Old Church Lane	(c) Coal Lessee with Declaration Name Consol Mining Company, LLC	
Telephone	Pipestem, WV 25979 304-382-8402	Name Consol Mining Company, LLC CNX Center, Suite 100 - 1000 Cannonsburg, PA 15317	Consol Energy Drive
		OVE: You should have received this Form and the followed the following with the following	

well its and the plugging work order; and

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.

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 Operato	Diversified Production, LLC	
By:	Jeff Mast	
lts: Address	Director Technical Services	
	414 Summers Strret	
	Charleston, WV 25301	RECEIVED
Telephone	304-543-6988	Office of Oil and

Telephone Oll and Gas

MAY 0 3 2022 Subscribed and sworn before me this WV Department of Notary Public My Commission Expires September 16, 2023 Environmental Protection

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 depprivacyoffier@wv.gov.

U.S. Postal Service™ CERTIFIED MAIL® RECEIPT 2065 Domestic Mail Only For delivery information, visit our we Bluefield, WV 5 certified Mail Fee \$3.75 522 0523 \$3.05 04 Extra Services & Fees (check bo feejas appropri Return Receipt (hardcopy) 1000 Return Receipt (electronic) \$0.00 Certified Mail Restricted De \$0.00 Adult Signature Required \$0.00 Adult Signature Restricted D 20 ostage \$1.96 D'T' LCHC-008A, LCHC-008B 7020 Pocahontas Land P.O. Box 1517 Stree Bluefield, WV 24701 City, U.S. Postal Service™ **CERTIFIED MAIL® RECEIPT** 202 Domestic Mail Only For delivery information, visit our we Lexinaton, KY Certified Mail Fee \$3.75 522 0523 \$3.05 04 Extra Services & Fees (check bo e as appropri Return Receipt (hardcopy) \$0.00 Return Receipt (electronic) Postmark Certified Mall Restricted De \$0.00 Adult Signature Required \$0.00 Adult Signature Restricted D 50 \$2,16 LCHG-008A, LCHC-008B West Virginia Mid Vol Inc. 7020 836 Euclid Avenue, Suite 302 Stre Lexington, KY 40502 City nstructions U.S. Postal Service™ CERTIFIED MAIL® RECEIPT 89 Domestic Mail Only Canonsburg Ŋ Certified Mail Fee \$3.75 522 0523 extra Services & Fees (check t #19ppppp Return Receipt (hardcopy) 0001 Return Receipt (electronic) Certified Mail Restricted D \$0.00 Adult Signature Required \$0.00 Adult Signature Restricted De 20 \$1.96 I T LCHC-008B 7020 Consol Mining Co., LLC CNX Center, Suite 100 1000 Consol Energy Drive Cannonsburg, PA 15317

LCHC-008B 47-109-02494

Office of Oil and Gas

APR 27 2022

WV Department of Environmental Protection

07/15/2022

WW-9 (5/16)

API Number	47 -	109	_ 02494	
Operator's W	ell No	. LCI	HC-008B	

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

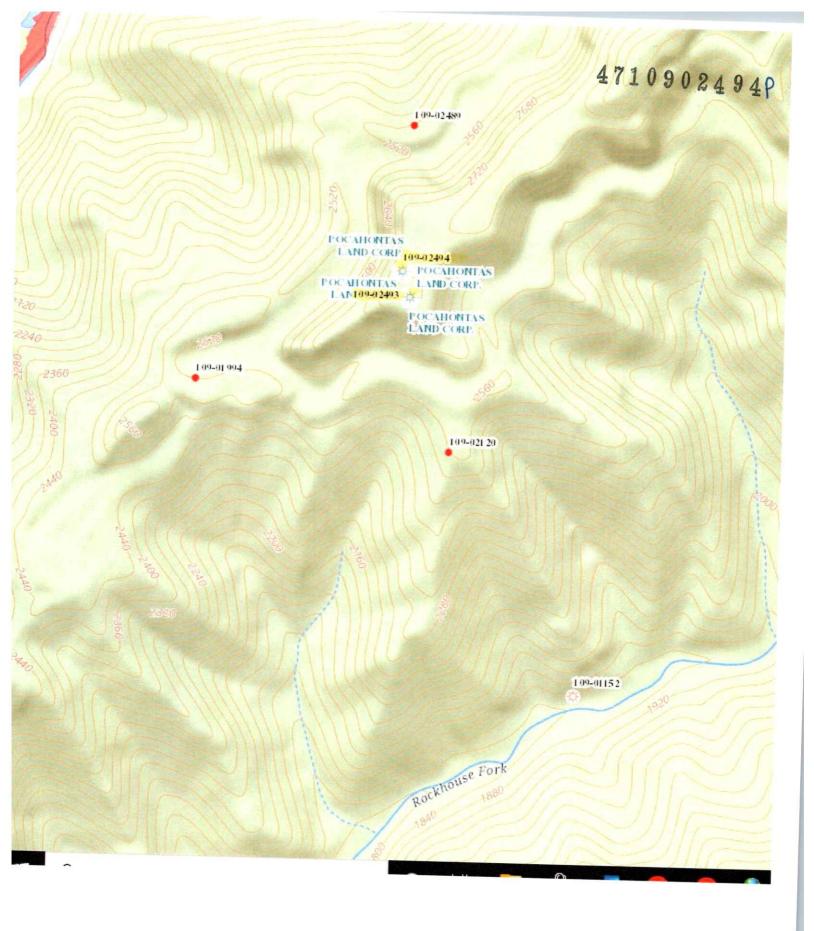
FLUIDS/ CUTTINGS DISPOSAL & RECLAMATION PLAN

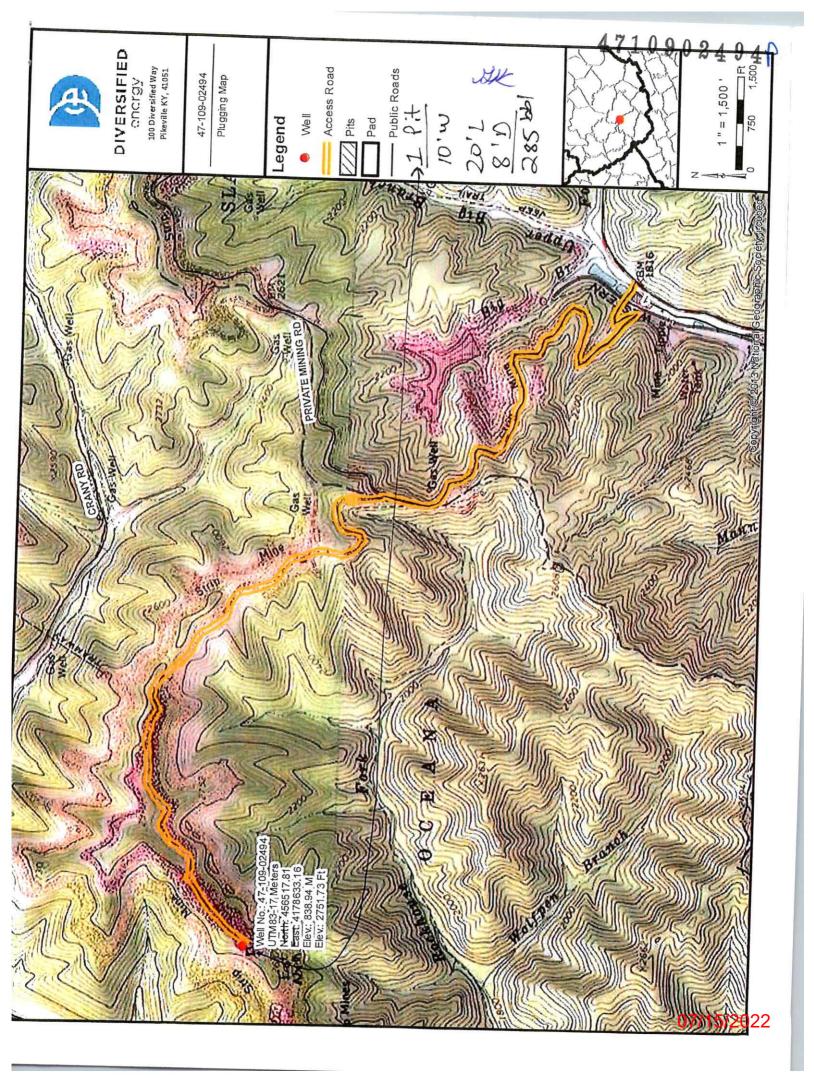
Operator No. Disputed by the control of the control	TION PLAN
Operator Name Diversified Production, LLC	OP Code 494524121
Watershed (HUC 10) Rockhouse Fork of Clear Fork Quadrangle A	arnett
Do you anticipate using more than 5,000 bbls of water to complete the proposed well	work? Yes No 🗸
Will a pit be used? Yes V No No	
If so, please describe anticipated pit waste: Produced fluid and cement ret	turns
Will a synthetic liner be used in the pit? Yes V No If so,	what ml.? 20
Proposed Disposal Method For Treated Pit Wastes:	
Land Application (if selected provide a completed form W Underground Injection (UIC Permit Number Twin Branch 4 Reuse (at API Number Off Site Disposal (Supply form WW-9 for disposal locatio Other (Explain	47471511
Will closed loop systembe used? If so, describe; N/A	
Drilling medium anticipated for this well (vertical and horizontal)? Air, freshwater, or	il based etc. N/A
-If oil based, what type? Synthetic, petroleum, etc. N/A	n based, etc. 147
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, s	
-Landfill or offsite name/permit number? N/A	sawdust) N/A
Permittee shall provide written notice to the Office of Oil and Gas of any load of drill of West Virginia solid waste facility. The notice shall be provided within 24 hours of reject where it was properly disposed.	cuttings or associated waste rejected at any ction and the permittee shall also disclose
I certify that I understand and agree to the terms and conditions of the GENER on April I, 2016, by the Office of Oil and Gas of the West Virginia Department of Enprovisions of the permit are enforceable by law. Violations of any term or condition of or regulation can lead to enforcement action. I certify under penalty of law that I have personally examined and am fam application form and all attachments thereto and that, based on my inquiry of those individual the information, I believe that the information is true, accurate, and complete. I am a submitting false information, including the possibility of fine or imprisonment.	the general permit and/or other applicable law siliar with the information submitted on this viduals immediately responsible for obtaining aware that there are significant penalties for
Company Official Signature	NOTARY PUBLIC
Company Official (Typed Name) Jeff Mast	STATE OF WEST VIRGINIA Phyllis A. Copley
Company Official Title Director Technical Services	144 Willard Circle Huntzens, WV 25528 My Commission Expires September 16, 2023 a
Subscribed and sworn before me this 25th day of Grand, 2022	RECEIVED Office of Oil and Gas
My commission expires September 16, 2023	MAY 0 3 2022

WV Department of Environmental Protection

07/15/2022

Proposed Revegetation Tre		1 TOVES CLAUGH T	ЭН		
Lime 3	Tons/acre or to correct to pH 605				
Fertilizer type	10-20-20 or equivalent				
Fertilizer amount_		lbs/acre			
Mulch 2		Tons/acre			
		Seed Mixtures			
	mporary	Perma	nent		
Seed Type Red Fescue	lbs/acre	Seed Type	lbs/acre		
Alsike	40	Red Fescue	15		
	5	Alsike Clover	5		
Annual Rye	15	_			
aps(s) of road, location, pit ovided). If water from the p W), and area in acres, of the	ne land application area.	application (unless engineered plans includi vide water volume, include dimensions (L, V	ng this info have been W, D) of the pit, and dimensions		
notocopied section of involve	ne land application area.	to de difficilisións (L, V	v, D) of the pit, and dimensions		
Maps(s) of road, location, pit rovided). If water from the p p, W), and area in acres, of the notocopied section of involved an Approved by:	ne land application area. ed 7.5' topographic sheet.	application (unless engineered plans includi vide water volume, include dimensions (L, V	v, D) of the pit, and dimensions		
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West Virginia Department of Environmental Protection Office of Oil and Gas

WELL LOCATION FORM: GPS

	OCATION FORM: GP	PS			
_{API:} 4710902494	WELL NO.:	LCHC-008B			
FARM NAME: Pocahonta	as Land Corporation	1			
RESPONSIBLE PARTY NAME	Diversified Produc	ction LLC			
COUNTY: Wyoming	DISTRICT: O	ceana			
QUADRANGLE: Arnett, W					
surface owner: Pocaho	ontas Land				
ROYALTY OWNER: DP BIL	uegrass LLC				
UTM GPS NORTHING: 4178	633.16				
UTM GPS EASTING: 45651	7.81 GPS ELEVAT	_{EION} . 2751.73'			
The Responsible Party named above preparing a new well location plat for above well. The Office of Oil and Gothe 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 President and Survey grade GPS: Post President Accuracy to Datum = 1.00 president Accuracy	or a plugging permit or assigned as will not accept GPS coordinate: 17 North, Coordinate Units: movel (MSL) – meters.	API number on the tes that do not meet			
Real-T	ime Differential				
Mapping Grade GPS X : Post		RECEIVED Office of Oil and Gas			
4. Letter size copy of the topography map showing the well location. MAY 0 3 2022					
belief and shows all the information in prescribed by the Office of Oil and G	data is correct to the best of my	in location.			
Digitally signed by Austin Sutler Date: 2022.04.08 11:56:47	Sr. Proj. Manager	4/8/2022			
Signature	Title	Date			



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

ATTN plugging wells being issued 4710902493, and 10902494

2 messages

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

Thu, Jul 14, 2022 at 2:24 PM

To: asutler@dgoc.com, Jeffrey W McLaughlin <jeffrey.w.mclaughlin@wv.gov>, Gary L Kennedy <gary.l.kennedy@wv.gov>, brad.maddox@nextlvlenergy.com, Wade A Stansberry <wade.a.stansberry@wv.gov>

To whom it may concern these plugging permits have been issued 4710902493, and 10902494. Any questions please let me know.

James Kennedy WVDEP OOG

3 attachments







Kennedy, James P <james.p.kennedy@wv.gov> To: mecook2@assessor.state.wv.us Thu, Jul 14, 2022 at 2:57 PM

[Quoted text hidden]

3 attachments





