

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 MCQUISTON DRIVE

JACKSON CENTER, PA 16133

Re:

Permit approval for HARVEY 1B

47-081-01385-00-00

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: HARVEY 1B

Farm Name: FARMER, ELLA DAVIS, E

U.S. WELL NUMBER: 47-081-01385-00-00

Coal Bed Methane Well Plugging

Date Issued: 8/26/2022

Promoting a healthy environment.

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. <u>Failure to adhere to the specified permit conditions may result in enforcement action.</u>

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	25		,	2022	
2)Oper	ator	S				_
Well	No.	Kanawi	ha Shoals 1-	В		
3)API	Well	No.	47-081		- 01385	_

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

	APPLICATION FOR A PERM	MIT TO PLUG AND ABANDON
4)	Well Type: Oil/ Gas X/ Liquid	
0.30		derground storage) Deep/ Shallow X
	01 011	derground Storage/ Deep/ Sharrow X
5)	Location: Elevation 2331.28 ft	Watershed Brechenridge Creek of Marsh Fork
	District Trap Hill	County Raleigh 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	Address P.O. Box 40
	Pipestem, WV 25979	Hueysville, KY 41640-0040
	See Atta	iched
		RECEIVED Office of Oil and Gas
		MAY 0 3 2022
		WV Department of Environmental Protection
Notif	Fication must be given to the district oil can commence.	l and gas inspector 24 hours before permitted
Work	order approved by inspector Why K	mud Date 4/29/22

Plugging Prognosis

API#: 4708101385

Casing Schedule:

13 3/8" @ 32' CTS 9 5/8" @ 511' CTS 7" @ 1090' CTS

TD listed as 2353'

Estimated lateral from plat

- B Hole (81-01385)
 - o 26,500' x 4.75" Hole ID = 3,260 Cu ft = 725 BBL w/ 125% excess

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

Coal: 260', 410', 631', 694', 920', 1194'

Elevation: 2353'

- 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.

725 BBLOF

- 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 1140'
- TIH w/ tbg to 1140'. Pump 100' C1A cement plug from 1140' to 200' (7" & 9 5/8" csg shoe plug and coal). Tag TOC
- 7. TOOH w/ tbg to 200'. Pump 6% bentonite gel spacer from 200' to 100'.
- 8. Confirm 7" csg is cemented to surface. If not TOOH w/ tbg. Free point csg and set plug 50' RECEIVED in/out of cut for total of 100'.

 Office of Oil and Gas
- 9. TOOH w/ tbg to 100'. Pump 100' C1A cement plug from 100' to surface
- 10. Reclaim site and set monument per WV DEP regulations.

MAY 03 2022

WV Department of Environmental Protection

PLUGS MUST BE EXPANDING CEMENT,

.- Jul. 5. 2007 3:55₽₩

WR-35

DATE: 07/05/2007 API# : 4708101385C

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

Well Ope	rator's	Report of W				
Farm Name Ella Davis Farmer et al & Jean Cook Smi	th :		Opera	ator Wall No KANA	WHA SHOALS IE	•
LOCATION Elevation: 2353.79			Quadr	angle: Arnett 7:12		
EOOATION Elevation.	9.0					
District: Trap Hill			County: Ra	aleigh .		
Latitude: 9020 Feet South o	1 37	Deg. 47	Min 30) Sec		
Langitude: 6000 Feet West o	f 81	Dag. 25	Min. 00	Sec .		
udit-diffudectore s =1			Ψ.			
Company:						
Penn Virginia Oii & Gas Corporation		Casing and Tubing	Used in drilling	Left in well	Cement fill us Cu. Ft	
	¥				1.5	
Address: 2550 East Stone Drive, Suite 110	:_	13 3/8	32	511	226	
Kingsport, TN 37660		9 5/8	511	4 4 4 4 4 4 4	295	
Agent: Bryant Bowman		7	1090	1090	293	
Inspector: Terry Urban			8			
Date Permit Issued: 12/05/2005					and the same of th	
Date Well Work Commenced:						
Date Well Work Completed: 03/14/2006				5.75.5		
Verbal Pluoding: 052906						
Date Permission granted on: Rotary X Cable Rig		280511112			****	1
Total Depth (feet): 1,260						
Fresh Water Depth (ft):						*,
None Reported						
Salt Water Depth (ft):	٠	1.0.000				
None Reported	1					
Total Tapono	40					
Is coal being mined in area (N/Y)? N						
Coal Depths (ft):					MI	RECEIVED
260-262; 410-412; 631-632; 894-696; 920-924; 1194-1199	9				Je	Office of Oil and Gas
340	12					118
	1					MAY 03 2022
OPEN FLOW DATA	- 4					MAI 03 2022
Dealers of the Control of the Control				sana donth ib	1 158 -	war account on
Producing formation Lower Backley Coal	60		40 m m	ay zone depth (ft)	. 192	WV Department of
Gas: Initial open flow NA MCF/d		Initial open flow		Bblid		Environmental Protection
Final open flow MCF/d Time of open flow between initial and		al open flow	Bbl/d Hours	1		- rotection
	1	essure) after		ute		
Static rock pressure paig (st	шасе рі	essure) arrei	Ho	UIS		
Second producing formation			Pay zor	ne depth (ft)		
Gas: Initial open flow MCF/d	.Oit	: Initial open flo	w	Bbl/d		
Final open flow MCF/d	Fir	nal open flow	Bt	ol/d		
Time of open flow between initial and	final te	sts:	Hours			
Static rock pressure psig (surf	ace pre	ssure) after	Но	urs		
NOTE: ON BACK OF THIS FORM PUT THE INTERVALS, FRACTURING OR STIMULAT! WHICH IS A SYSTEMATIC DETAILED GEO COAL ENCOUNTERED BY THE WELLBORE	NG, ÞH LOGICA	YSICAL CHANE	E, TEC 2) T	HE WELL LOG	GEORGE OF COMPANY OF THE COMPANY OF	THE T
TO THE WELLDON	289				1 101 053	m2 1 ~
m. i. F					1000 000	W
Signed: By: Mickael	Jan.	P.			WV Departue Environmental Pri	mur 09/02/2022

4708101385

FORM WALKS /REVERSOY ...*

Jul. 5. 2007

DETAILS OF PERPORATIONS, FRACTURING CRIPE SUCK SALAL SALAR STORES

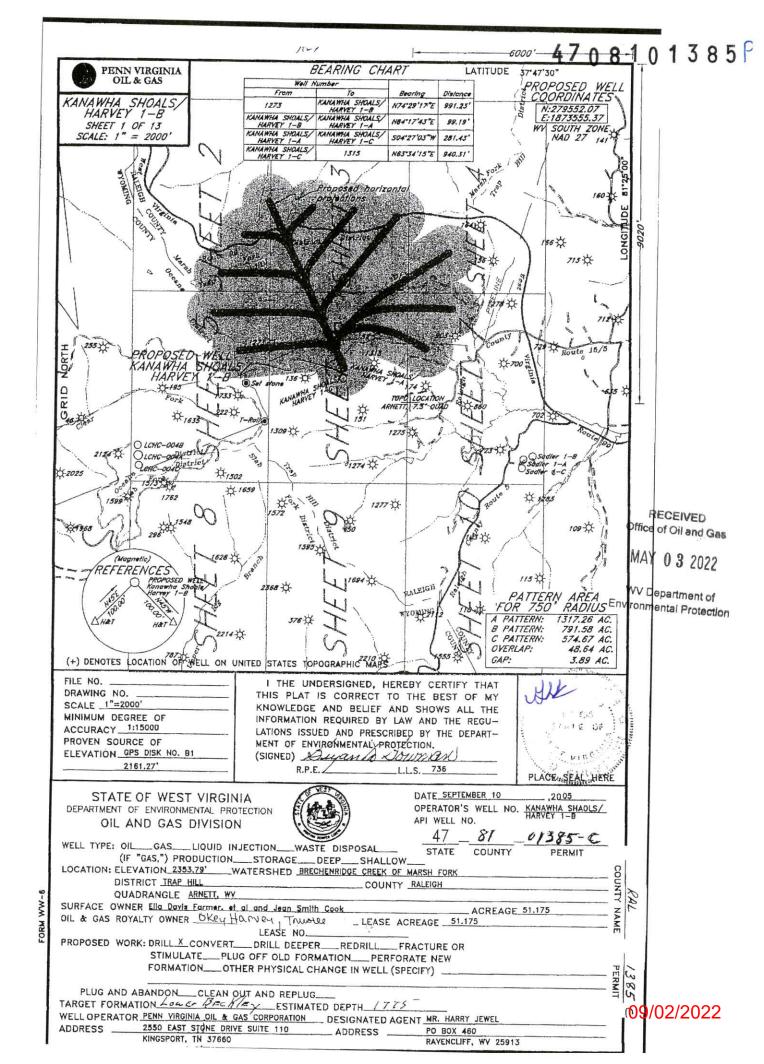
BIL

			9.	00					
11	FORMATIONS		TOP	BOJTOM	. REM	ARKS . * E	* .	· · · · · · · · · · · · · · · · · · ·	
8	Sand/Shale		3	260					- 3 ¹ . ~
÷	Beckley Coal		1134 1194 •	1194	27	1 (A)			RECEIVED
	Sand/Shale Coal		1199 260	TD - 252	¥ v		* #		Office of Oil and Gas
	Sand Shale		262 300	300 350				\$* *··.	MAY 0 3 2022
- 0	Sand Coal	*	350 410	413 412					WV Department of
	Sand/Shale Coal Sand/Shale	1865 SI 18	412 631	631 632				- H - F	nvironmental Protection
	Coal Sand	Ane to	694	694 696	N	11.00			
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	Coal Sand		924	924 1124 :		*,	1	***	
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09/02/2022

Office of Care 1

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WW-4A Revised 6-07

1) Date:	April 25, 2022	2			
 Operator's Well Number Kanawha Shoals 1-B 		er			
3) API Well	No.: 47 -	081	2	01385	

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

Surface Ow	ner(s) to be served:	5) (a) Coal Operator		
(a) Name	Joshua & Raylene Caron	Name	None	
Address	P.O. Box 936	Address		
	Bolt, WV 25817			-
(b) Name		(b) Coal Own	ner(s) with Declaration	
Address		Name	Joshua & Raylene Caron	
	·	Address	P.O. Box 936	
			Bolt, WV 25817	
(c) Name		Name		
Address		Address		
6) Inspector	Gary Kennedy	(c) Coal Less	see with Declaration	
Address	66 Old Church Lane	Name	No Declaration	
	Pipestem, WV 25979	Address		
Telephone	304-382-8402			
	0.00			

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.

WEST IN	OFFICIAL SEAL
A CONTRACTOR OF THE PARTY OF TH	MOTARY PUBLIC
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	STATE OF WEST VIRGINIA
S S S S S S S S S S S S S S S S S S S	Phyllis A. Copley
B-\ 3/.	144 Willard Circle
Bio. St. M	Hurricane, WV 25528
No. of Street, or other Party of the Party o	Commission Expires September 16, 2023

Well Operato	Diversified Production, LLC	RECEIVED
By:	Jeff Mast	Office of Oil and Gas
Its:	Olifector Technical Services	1447 0 0 0000
Address	414 Summers Strret	MAY 0 3 2022
	Charleston, WV 25301	
Telephone	304-543-6988	WV Department of
		Environmental Protectio

Subscribed and sworn before	ore me this 25 th day	of april,	4606
	Theles a. ()	ply april,	Notary Public
My Commission Expires	September 16, 2023	1	

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 depprivacyoffice wv.gov.

4708101385 8

47-081-01385 Kanawha Shoals I-B

158	U.S. Postal Service [™] CERTIFIED MAIL® RECEIPT Domestic Mail Only
	For delivery information, visit our website at www.usps.com®.
450 0001 5225	Certified Mail Fee \$3.75 Starta Services & Fees (check box, add fee ar appropriate) Return Receipt (hardcopy) 100 Return Receipt (electronic) 100 Certified Mail Restricted Delivery 100 Adult Signature Required 100 Adult Signature Restricted Delivery 100 Postage 10
디	Kanawha-Shoals 1-A, 1-B and 1-C
7020	Joshua & Raylene Caron P.O. Box 936 396 Bolt, WV 25817
b	for Instructions

Office of Oil and Gas

APR 27 2022

WV Department of Environmental Protection

WW-9 (5/16)

01385 API Number 47 - 081 Operator's Well No. Kanawha Shoals 1-B

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) Brechenridge Creek of Marsh Fork Quadrangle Arnett Do you anticipate using more than 5,000 bbls of water to complete the proposed well work? Will a pit be used? If so, please describe anticipated pit waste: Produced fluid and cement returns If so, what ml.? 20 Will a synthetic liner be used in the pit? Yes ✓ 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 RECEIVED Permittee shall provide written notice to the Office of Oil and Gas of any load of drill cuttings or associated waste rejected at affice of Oil and Gas West Virginia solid waste facility. The notice shall be provided within 24 hours of rejection and the permittee shall also disclose MAY_0 3 2022 where it was properly disposed. I certify that I understand and agree to the terms and conditions of the GENERAL WATER POLLUTION PERMIT was experiment of on April 1, 2016, by the Office of Oil and Gas of the West Virginia Department of Environmental Protection. I understand whet the entail Protection 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 TE OF WEST VIRGINIA Company Official (Typed Name) Jeff Mast Phyllis A. Copley Company Official Title Director Technical Services Subscribed and sworn before me this

2022

September 16, 2023

My commission expires

Notary Public

Operator's Well No Kanawha Shoals 1- ${f B}$

Fertilizer type	Tons/acre or to correct t	to pH 605	
	Tons/acre or to correct t		
Fertilizer amount		lbs/acre	
		Tons/acre	
-			
		Seed Mixtures	
	emporary	Permai	nent
Seed Type	lbs/acre	Seed Type	lbs/acre
Red Fescue	40	Red Fescue	15
Alsike	5	Alsike Clover	5
Annual Rye	15		
L, W), and area in acres, of	pit will be land applied, provide the land application area.	pplication (unless engineered plans includ de water volume, include dimensions (L,	ling this info have been W, D) of the pit, and dimensio
the control of the co	pit will be land applied, provide the land application area.	pplication (unless engineered plans includ de water volume, include dimensions (L,	W, D) of the pit, and dimensio
Plan Approved by:	pit will be land applied, provide the land application area.	de water volume, include dimensions (L,	W, D) of the pit, and dimensio
chovided). If water from the L, W), and area in acres, of chotocopied section of involutional section Approved by:	pit will be land applied, provide the land application area.	de water volume, include dimensions (L,	W, D) of the pit, and dimensio
Plan Approved by:	pit will be land applied, provide the land application area.	de water volume, include dimensions (L,	W, D) of the pit, and dimensio
provided). If water from the	pit will be land applied, provide the land application area.	de water volume, include dimensions (L,	W, D) of the pit, and dimension



West Virginia Department of Environmental Protection Office of Oil and Gas

WELL LOCATION FORM: GPS

WELLLLO	CATION FORM: GPS	•			
{API:} 4708101385	WELL NO.:	1-B			
FARM NAME: Ella Davis Farmer et al					
RESPONSIBLE PARTY NAME: Diversified Production LLC					
COUNTY: Raleigh	DISTRICT: Tr	ap Hill			
QUADRANGLE: Arnett, WY	V		_		
SURFACE OWNER: Joshua	Caron and Raylene	e Caron			
ROYALTY OWNER: Summit	Nat. Resources & DP I	3luegrass LL0	2		
UTM GPS NORTHING: 41800			_		
UTM GPS EASTING: 461494	GPS ELEVAT	_{TION:} 2331.28	3		
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 let 2. Accuracy to Datum – 3.0. 3. Data Collection Method: Survey grade GPS: Post Pro-	or a plugging permit or assigned as will not accept GPS coordinates: 17 North, Coordinate Units: movel (MSL) – meters. 5 meters	API number on the tes that do not meet eters, Altitude:	RECEIVED Office of Oil and Gas MAY 0 3 2022 WV Department of		
	ime Differential	Env	/ironmental Protection		
Mapping Grade GPS X : Post					
4. Letter size copy of the to 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 regulations.	knowledge and			
Date: 2022.04.14 15:20:42	Sr. Proj. Manager	4/14/2022	<u>}</u>		
Signature	Title	Date			

Well: Kanawha Shoals 1-B API: 47-081-01385

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 OF 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 27 2022

WV Department of Environmental Protection



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

plugging permits issued 4708101384, 08101385, 08101386

1 message

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

Fri, Aug 26, 2022 at 2:23 PM

To: Phyllis Copley <pcopley@dgoc.com>, Gary L Kennedy <gary.l.kennedy@wv.gov>, Austin Sutler <asutler@dgoc.com>, raleigh@wvassessor.com

To whom it may concern, plugging permits have been issued for 4708101384, 08101385, 08101386.

James Kennedy

WVDEP OOG

4 attachments







