

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 1A 47-081-01384-00-00

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 1A Farm Name: FARMER, ELLA DAVID, ET U.S. WELL NUMBER: 47-081-01384-00-00 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. 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		4708101384 1) Date <u>April 25</u> , 2022 2) Operator's Well No. <u>Kanawha Shoals 1-A</u> 3) API Well No. <u>47-081</u> -01384
DF	PARTMENT OF ENVI	EST VIRGINIA RONMENTAL PROTECTION OIL AND GAS
APPLI	CATION FOR A PER	MIT TO PLUG AND ABANDON A COM WELL.
4) Well Type: Oil/	Gas X/ Liqui	d injection/ Waste disposal/
(If "Gas, Produ	uction X or Un	derground storage) Deep/ Shallow X
5) Location: Elevation 23	C. March	Watershed Brechenridge Creek of Marsh Fork
District Tra	ip mii	County Raleigh Quadrangle Arnett
6) Well Operator Diversified	Production, LLC	7) Designated Agent Jeff Mast
Address 414 Summ	ers Street	Address 31 Hickory Drive
Charlestor	n, WV 25301	Barboursville, WV 25504
8) Oil and Gas Inspector t _{Name} Gary Kennedy	o be notified	9)Plugging Contractor Name R&JWell Services
Address 66 Old Church L	ane	Address P.O. Box 40
Pipestem, WV 25	5979	Hueysville, KY 41640-0040

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

See Attached

RECEIVED THIS IS THE ACCESS WELL FOR LATERAL PINNATE Office of Oil and Gas MAY 0 3 2022 CBM WELLS 47-081-01385 \$ 47-081-01386. WV Department of 4 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 _

they Kewing Date 4/29/22

09/02/2022

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Plugging Prognosis

API #: 4708101384

Casing Schedule:

13 3/8" @ 31 CTS 9 5/8" @ 529' CTS 7" @ 883' CTS

TD listed as 1124'

- Estimated kickoff @ 925'
 - B Hole (81-01385)
 - 26,500' x 4.75" Hole ID = 3,260 Cu ft = 725 BBL w/ 125% excess
 - C Hole (81-01386)
 - 17,000' x 4.75" Hole ID = 2,092 Cu ft = 465 BBL w/ 125% excess

Completion – Pilot Well for CBM production. 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: 250', 400', 621', 684', 910' Elevation: 2343'

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 933'
 - 6. TIH w/ tbg to 933'. Pump 733' C1A cement plug from 933' to 200' (7" & 9 5/8" & Coal Shows of Oil and Gas Tag TOC
 - 7. TOOH w/ tbg to 200'. Pump 6% bentonite gel spacer from 200' to 100'.
 - MAY 0 3 2022 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'. WV Department of
 - 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.
 - 11. Note: The uncased 4 3/4" wellbore from curve to lateral will be filled w/ gel/cement from the production wells (47-081-01385 & 47-081-01386) when plugging them.

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MUST USE EXPANDING CEMENT,

Environmental Protection

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DATE 07/05/2007

API#: 4708101384C

S	tate of West Virginia
Division	of Environmental Production
Se	ection of Oil and Gas

. Jul. 5, 2007 3:54⊬M

WR-35

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Well Operator's Report of Well Work

annin	ame Ella Davis Farmer et al & Jean Cook Sm						WHA SHOA LS		
LOCAT	TON Elevation: 2343.38			Qu	adrang	le Arnett 7 1.2			
	District: Trap Hill	÷.		County	Ralei	gh			
2	Latitude: 9010 Feel South	of 37;	Deg. 47	Min.	30	Sec			
	Longitude: 5900 Feet West	of 81,	Deg. 25	. Min	00	Sec.			
Compa	The second								
Penn V	/irginia Oil & Gas Corporation	5	Casing and Tubing	Used in drilling		Left in we	Cement fill Jo Cul Ft 1		
Add	Iress: 2550 East Stone Drive, Suite 110		13 3/8	31		31	1 * 8	-	
	Kingsport, TN 37660		9 5/8	529		529	265 5		
Age	ent: Bryant Bowman		7	883		883	295		
Insp	bector: Terry Urban								
Dal	e Permit Issued: 12/05/2005	1							
Dat	e Well Work Commerced:	1							
Date	e Well Work Completed: 03/13/2006								
	pal Pluoging:								
	e Permission granted on: ary X Cable Rig				*			*))	
	al Depth (feet): 1124'	······································		*****				_	
	sh Water Depth (ft):								
	ne Reported	:			22				
Salt	t Water Depth (ft):	- les							
	ne Reported	2							
			<u>.</u>						
	coal being mined in area (N/Y)? N	<u> </u>				A.		R	ECEIVED
	al Depths (ft):	5.				A		Office	of Oil and Gas
250-	-252; 400-402; 621-622; 684-686; 910-914				~	20-			17
								MAY	0 3 2022
	OPEN FLOW DATA	. 2							00 2022
	OPENPLOWDATA	10						14010	
	Producing formation No Production from this	well			Pay z	one depth (ft)		Enviro	epartment of
	Gas: Initial open flow NA MCF/d	Qil	Initial open flow		Bb	Vd –		CIVIFORM	ental Protection
	Final open flow MCF/d		al open flow	Bt	l∕ḋ				
	Time of open flow between initial and			Hours					
	Static rock pressure psig (s	urface p	ressure) after _	·)	Hours				57 1027
	Second producing formation			Pay.	zone d	epth (ft)		15	
	Gas: Initial open flow MCF/d	Oi	: Initial open flo	W	Bi	ol/d			
	Final open flow MCF/d	Fir	nal open flow		Bbl/d				
	Time of open flow between initial and	d final te	sts.	Hours					
	Static rock pressurepsig (sur	tace pré	ssure) after)	Hours				~
	NOTE: ON BACK OF THIS FORM OUT THE	FOLLO	MANC: 1) DET		EBEO	DATED			2
	NOTE: ON BACK OF THIS FORM PUT THE INTERVALS, FRACTURING OR STIMULAT	ING, PH	YSICAL CHANE	TEC 2)	THE	NELL LOG	NPOE DECE	NED	1 Z
	WHICH IS A SYSTEMATIC DETAILED GEC	LOGICA	L RECORD OF	ALL FOR	MATIC	NS, INCLUDING	H THER ON	12 6000	
	COAL ENCOUNTERED BY THE WELLBOR	E					Office o	i "Iner	
							E ALL DE	i general d	~
	Signed: MICHAELE	Dige	APEC					Ciade	00/02/20
	By: Micharton	Ch-	fam				WV Depar	interview E	U U ZI ZU
	Date: 7/5/07						Environmente		





4708101384

WW-4A Revised 6-07

1)	Date:	April 25, 2022

2) Operator's Well Number

Kanawha Shoals 1-A

081

3) API Well No.: 47 -

- 01384

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

4) Surface Owner(s) to be served: 5) (a) Co		5) (a) Coal Operator			
	(a) Name	Joshua & Raylene Caron	Name	None	
	Address	P.O. Box 936	Address		
		Boll, WV 25817			
	(b) Name		(b) Coal Ow	mer(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 Les	see with Declaration	
	Address	66 Old Church Lane	Name	No Declaration	
		Pipestem, WV 25979	Address		
	Telephone	304-382-8402			

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.

OFFICIAL SEAL NOTARY PUELIC STATE OF WEST VIRGINIA	Well Operator By:	Diversified Production /L.C.	RECEIVED Office of Oil and Gas
Phyllis A. Copley 144 Willard Circle Hurricane, WV 25526	Its: Address	Director Technical Services 414 Summers Strret	MAY 0 3 2022
My Commission Expires September 16, 2023	<i></i>	Charleston, WV 25301	WV Department of
	Telephone	304-543-6988	Environmental Protection
Subscribed and sworn before me th My Commission Expires September	hypes a. I	ay of april, 2027 oply Notary Public	

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 <u>depprivacyoffier@wv.gov</u>.

Kanawha Shoals I-A 47-081-01384



RECEIVED Office of Oil and Gas

APR 27 2022

WV Department of Environmental Protection

47081013848

(5/16)	API Number 47 - 081 - 01384 Operator's Well No. Kanawha Shoals 1-A	
STATE OF WEST VIRGINI DEPARTMENT OF ENVIRONMENTAL OFFICE OF OIL AND GA FLUIDS/ CUTTINGS DISPOSAL & RECLA	PROTECTION S	
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 Will a pit be used? Yes Ves No	i well work? Yes No	
If so, please describe anticipated pit waste: Produced fluid and cemer	nt returns	
Will a synthetic liner be used in the pit? Yes 🔽 No 📃 I	If so, what ml.? 20	
Proposed Disposal Method For Treated Pit Wastes:		
Land Application (if selected provide a completed for Underground Injection (UIC Permit Number Twin Branch Reuse (at API Number		
Off Site Disposal (Supply form WW-9 for disposal le Other (Explain	ocation)	
Will closed loop systembe used? If so, describe: N/A		
Drilling medium anticipated for this well (vertical and horizontal)? Air, freshwa	ater, oil based, etc. N/A	
-If oil based, what type? Synthetic, petroleum, etc. N/A		
Additives to be used in drilling medium?N/A		EIVED
Drill cuttings disposal method? Leave in pit, landfill, removed offsite, etc. N/A	Office of	Oil and Gas
-If left in pit and plan to solidify what medium will be used? (cement,	lime, sawdust) N/A MAY (0 3 2022
-Landfill or offsite name/permit number? N/A	₩¥ Dep	artment of
Permittee shall provide written notice to the Office of Oil and Gas of any load o West Virginia solid waste facility. The notice shall be provided within 24 hours where it was properly disposed.	f drill cuttings or associated waste rejected at any of rejection and the permittee shall also disclose	ntal Protection
I certify that I understand and agree to the terms and conditions of the on April 1, 2016, by the Office of Oil and Gas of the West Virginia Departmen provisions of the permit are enforceable by law. Violations of any term or condi or regulation can lead to enforcement action. I certify under penalty of law that I have personally examined and a	t of Environmental Protection. I understand that the ition of the general permit and/or other applicable law am familiar with the information submitted on thi	e v

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	OFFICIAL SEAL S
Company Official (Typed Name) Jeff Mast	STATE OF WEST VIRGINIA Phyllic A. Copley
Company Official Title Director Technical Services	144 Willard Circle Hurricane, WV 25528 My Commission Expires September 16, 2023 1
Subscribed and sworn before me this 25 thay of Cipul, 2022	8 5
Phyles a. Copley	_ Notary Public
My commission expires September 16, 2023	

WW-9

Operator's Well No Kanawha Shoals 1-A

Form V	VW-9
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Proposed Revegetation Treatm	nent: Acres Disturbed 1 +/-	Prevegeta	ation pH
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	Mixtures	
Tem	porary	1	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.

	RECEIVED Office of Oil and Gas
Plan Approved by: Huy Konnel	MAY 0 3 2022
Comments:	WV Department of Environmental Protection
Title: <u>Tuspectov</u> Date: <u>4/29/22</u> Field Reviewed? ()Yes ()No	



WW-7 8-30-06		
West Virginia Depar	tment of Environment	tal Protection
Of	fice of Oil and Gas	
	OCATION FORM: GP	S
	WELL NO .:	1-A
FARM NAME: Ella Davis		
RESPONSIBLE PARTY NAME	. Diversified Produc	tion LLC
Delatur	DISTRICT: Tr	
QUADRANGLE: Arnett, W	\sim	
SURFACE OWNER: Joshua	a Caron and Raylen	e Caron
ROYALTY OWNER: DP BIL	uegrass LLC	
UTM GPS NORTHING: 4180	059.69	
UTM GPS EASTING: 46151	9.55 GPS ELEVAT	_{TION:} 2335.93
The Responsible Party named abov preparing a new well location plat f above well. The Office of Oil and C the following requirements:	e has chosen to submit GPS coor or a plugging permit or assigned das will not accept GPS coordina	dinates in lieu of API number on the tes that do not meet
height above mean sea le	e: 17 North, Coordinate Units: m evel (MSL) – meters.	eters, Altitude: RECEIVED
 Accuracy to Datum - 3.0 Data Collection Method: 		Office of Oil and Gas
Survey grade GPS: Post Pr	ocessed Differential	MAY 0 3 2022
Real-T	ime Differential 🗸	WV Department of
Mapping Grade GPS X: Post	Processed Differential	Environmental Protection
	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 regulatic	knowladge and
Digitally signed by Austin Sutler Date: 2022.04.14 15:19:12 -04'00'	Sr. Proj. Manager	4/14/2022
Signature	Title	Date

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Well: Kanawha Shoals 1-A API: 47-081-01384

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

RECEIVED 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