

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

Tuesday, February 15, 2022 WELL WORK PLUGGING PERMIT Vertical Plugging

DIVERSIFIED PRODUCTION LLC 101 MCQUISTON DRIVE **JACKSON CENTER, PA 16133**

Re: Permit approval for 4-S-160

47-039-02507-00-00

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.

Operator's Well Number: 4-S-160

Farm Name: KANAWHA & HOCKING C &

U.S. WELL NUMBER: 47-039-02507-00-00

Vertical Plugging

Date Issued: 2/15/2022



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	g Janu	ıary 26		,	20 22	
2) Open	cator	¹ S				
	Well	L No.	4-S-160				
3) API	Well	No.	47	039	02507	

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 $\frac{X}{X}$ / Liquid (If "Gas, Production $\frac{X}{X}$ or Und	d injection/ Waste disposal/ derground storage) Deep/ Shallow X
5)	Location: Elevation 1223.21 feet District Cabin Creek	Watershed Witcher Creek County Kanawha Quadrangle Quick
6)	Well Operator Address Address Diversified Production, LLC 414 Summers Street Charleston, WV 25301	7) Designated Agent Jeff Mast Address 31 Hickory Drive Barboursville, WV 25504
8)	Oil and Gas Inspector to be notified Name Terry Urban Address P.O. Box 1207 Clendenin, WV 25045	9) Plugging Contractor Name Diversified Production, LLC (in-house rig) Address 1951 Pleasantview Ridge Road Ravenswood, WV 26164
10)	Work Order: The work order for the mann	
		RECEIVED Office of Oil and Gas
	See Pr	FEB 0 1 2022 WV Department of Environmental Protection
	fication must be given to the district of can commence.	il and gas inspector 24 hours before permitted
Work	order approved by inspector Muy.	Mh Date 2-1-22

Plugging Prognosis

API #: 4703902507

West Virginia, Kanawha Co.

Lat/Long: 38.28668903, -81.43981544

Nearest ER: CAMC Memorial Hospital 3200 MacCorkle Ave SE, Charleston, WV 25304

8-5/8" @ 565' (cemented to 219' w/ 100 sxs cmt) THIS SHOULD HAVE CIRCULATED TO SURFACE *6-5/8" used in drilling but page 156.

4-1/2" @ 2,230' (cemented to 1,771' w/ 33 sxs cmt)

2" @ 2,179' TD @ 2,230'

Completion: Perforated: 1,906'-1,928'; 2,174'-2,189'

Fresh Water: 55'

Gas Shows: 1,901'-1,911'; 2,165'-2,172'; 2,178'-2,188' Operator to Cover with Cement Oil Shows: None listed All Dilicas Formation including Spit, Elevations, Coal: 532'-534'
Elevation: 1,205' Copt & Freshwate

1. Notify Inspector Terry Urban @ 304-549-5915, 48 hrs prior to commencing operations.

- 2. Check and record pressures on csg/tbg.
- 3. Remove tbg and lay down
- 4. Check TD w/ wireline.

388

- 5. Run in to depth @ 2,189'. Kill well as needed with 6% bentonite gel and fill rat hole. Pump at least 10 bbls gel. Pump 115' C1A cement plug from 2,189' to 1,801' (Gas shows/ Perforations plug) Tag TOC. Top off as needed.
- 6. TOOH w/ tbg to 1,801'. Pump 6% bentonite gel from 1,801' to 1,305'.
- 7. Free point 4-1/2" csg. Cut and TOOH. Set 100' C1A cement plug across csg cut. 50' in/out of cut.

 RECEIVED Do not omit any plugs listed below. Perforate as needed. Office of Oil and Gas

8. TOOH w/ tbg to 1,305'. Pump 200' C1A cement plug from 1,305' to 1,105' (saltwater and elevation plug)

FEB 0 1 2022

- 9. TOOH w/ tbg to 1,105'. Pump 6% bentonite gel from 1,105' to 615'.
- WV, Department of 10. TOOH w/ tbg to 615'. Pump 133' C1A cement plug from 615' to 482' (8-5/8" csg show and creation of the companion of the co show plug)
- 11. TOOH w/ tbg to 482'. Pump 6% bentonite gel from 482' to 155'.
- 12. TOOH w/ tbg to 155'. Pump 155' C1A cement plug from 155' to Surface (freshwater and surface plug)
- 13. Reclaim location and well road to WV DEP specifications and erect P&A well monument.

Thy lhh 2.1.22

Form OG-10

Sand

Slate

Slate

Sand, Broken





STATE OF WEST VIRGINIA DEPARTMENT OF MINES OIL AND GAS WELLS DIVISION 4

16.

Elev. 1204.69

Casing and Tubing

Used in Drilling

Rotary	
Spudder	
Cable Tools	

Oil or Gas Well Gas

Left in Well

Quadrangle Clendenin Permit No. Kan - 2507

Company Spartan Gas Company

Location (waters) Witchers Creek
Well No. 14-S-160

Address P. O. Box 766, Charleston, W. Va. Farm Kanawha & Hocking Coal & Coke Acres 14,128

WELL RECORD

C Storage E. NOLL

Packers

Kind of Packer...

Well No4-5-10			Elev. 1204.69	13				
District Cabin Cre	eek	County Kana		10	22	22	Size of	
The surface of tract		Kanawha	& Hocking	81/4	565	565		
Coal & Coke	is owned in fe	. Sharrahi	w W Vo	65%	1747	None	Depth set	
Coar & coke	<u></u> Ac	dressouriewand	Tys We vae				Depta sec	
Mineral rights are or	wned by	Daille		5 3/16	0000	2230		
				41/2	1	2230	200/	
Drilling commenced	4/14/71		······································	3	ļ		Perf. top 1906	
Orilling completed	5/24/71			2		2179	Perf. bottom. 192	8
Date Shot	From	т	'n	Liners Used	l	<u> </u>	Perf. top. 2174	*********
With							Perf. bottom 218	9
vitn		. 711	Inch	Attach copy of	THE RESERVE THE RESERVE THE PARTY TH			
5.5							D 0220	1-0187
				CASING CEM	ENTED	SIZEN	lo. Ft	
Volume 68 M	<u></u>		Cu. Ft.	Amount of cem	ent used (bags).	See Below	·	- 1 The action of the
Rock Pressure 1	95		hrs.	Name of Service				
Oil			bbls., 1st 24 hrs.	COAL WAS E	NCOUNTERE	D AT 532	FEET 24 IN	CHES
							FEET IN	
TELE ACIDIEDO	(2211112)						FEET IN	
		. Main 275	' Phla 17 0	W # Sand E	1	CHES	PEBIIN	CHES
WELL FRACTURE	D (DETAILS	(80 Br) - 313	DOLS . If good	roo dal A	od dag, Ac	:10	****	
······································	ınjun -	202 DDIS, 2	14,000 # Sand	, 500 Gar. A	.010	1/ 000		***************************************
RESULT AFTER T	REATMENT (Initial open Flow	or bbls.) 434	M	43	7,000		
ROCK PRESSURE	AFTER TRE	ATMENT 26	5#	HOURS16	hours			
	51	Feet		Salt Water	1255 '	Feet		
Producing SandI								
	****				. Dopta			
Formation	Color	Hard or Soft	Тор	Bottom	Oil, Gas or Water	Depth	Remarks	
								Title-braid-off
Clay			0 10	10				
Sand				55				
Slate			55	185			İ	
Sand			185	215				
Slate			215	265				
Sand			265	300				
Slate			300	503				
Sand /		.08	503	532				
Coal V			532	534				
Sand	-		534	602				
Slate, Sandy			602	635				
Sand			635	657				RECEIVED
Slate, Sand	i		657	752				Office of Oil and Gas
Sand			752	860				and Gas
Slate			860	890				EED A = DOGG
Sand			890	921				FEB 0 1 2022
Slate			921	9/15				
Sand	,		942	1066				WV/ Donatass
Shale			1066	1110		Eleval. Selt		WV Department of
Sand			1110	1335		Tlough	7 70	Environmental Protection
Slate			1335	1363		4100	· UCO	
Red Rock			1363			5, 1	L P	
Slate			1.505	1370		L HALL		
							1	
			1370	17157		T-0 1773		
Red Rock Slate						DECEN	WED	

1632

1638

1660

1670

1470

1632 1638 1660

JUN 22 1971

Formation	Color	Hard or Soft	Top 4	Bottom	Oil, Gas or Water	Depth Found	Remarks
Lime Slate Lime Slate Big Lime Sand Broken San Slate & Shell Sand Slate & Shell Sand Total Depth	a		1671 1710 1720 1730 1739 1914 1942 1962 2021 2030 2158	1710 1720 1730 1739 1914 1942 1962 2021 2030 2158 2192		Litthe Liv Big him Byland	e cmt
					Gas:	1901-11 2165-72 2178-88	6/10 W 1" 20/10 W 1" 52/10 W 1"
		1 - Cement 8 100 Sack Well Ser L - Cement 4 33 Sacks	vice, Inc. " Casing wi RFG cement. " Gel. ahead	th Circu-			
							RECEIVED Office of Oil and Gas FEB 0 1 2022
							WV Department of Environmental Protection

Date	June 18	1971
APPROVED SPARTAN GAS		, Owne
By Will	(Title)	

WW-4A Revised 6-07

1)	Date:	January 26, 202	.2		
2)	Operator's 4-S-160	Well Numbe	r		
37	API Wall N	10:47 -	039	02507	

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	ACIN, LLC	Name Name	None
1	Address	5260 Irwin Road	Address	
		Huntington, WV 25705	A college and a second	
((b) Name			vner(s) with Declaration
	Address			ACIN, LLC C/O NRP (Operating) LLC
			Address	5260 Irwin Road
				Huntington, WV 25705
	(c) Name		Name	
,	Address		Address	
0\ T		Terry Urban	(a) Coal I o	ssee with Declaration
	nspector	P.O. Box 1207	Name	Investment Management Group, LLC
E	Address	Clendenin, WV 25045	Address	4010 MacCorkle Avenue, SE
,	n. 1 1	304-549-5915	Address	Charleston, WV 25304
1.	l'elephone	304-349-3913		Chaneston, 114 20004
TO				eived this Form and the following documents:
	(1) The a	application to Plug and Abandon ts and the plugging work order; plat (surveyor's map) showing the	and	sets out the parties involved in the work and describes the
	(2) The p			
	(2) The r	you received these documents is that ou are not required to take any action	t you have rights regarding the appl at all.	cation which are summarized in the instructions on the reverses side.

WEST NO.

OFFICIAL SEAL NOTARY PUBLIC STATE OF WEST VIRGIMA Phyllis A. Copley 144 Willard Circle Hurtcane, WV 25528

sion Expires September 16, 2023

By:

Its:

Address

Telephone

Well Operator Diversified Production, LLC

Jeff Mast

Director Production

414 Summers Street

Charleston, WV 25301 304-543-6988 RECEIVED
Office of Oil and Gas

Subscribed and sworn before me this 28

day of

9033

FEB 0 1 2022

My Commission Expires

September 16, 2023

WV Department of 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 depprivacyoffice@wv.gov.

U.S. Postal Service™ CERTIFIED MAIL® REC	EIPT
For delivery information, visit our website a	at www.usps.com*.
(pariesion w v 2.3304	0523 03 Postmark Here 01/28/2022 Group
U.S. Postal Service™ CERTIFIED MAIL® REC Domestic Mail Only For delivery information, visit our website	
Huntington W 25705 Certified Mail Fee \$3.75 \$	0523 03 Postmark Here
	CERTIFIED MAIL® REC Domestic Mail Only For delivery information, visit our website Charleston W 25804 Certified Mail Fee \$3.75 Extra Services & Fees (check box, add fee exappositate) Return Receipt (hardcopy) Return Receipt (electronic) Adult Signature Required Adult Signature Restricted Delivery Postage \$2.16 Total P \$ 3-S-158, 4-S-160, 1-S-155 Investment Management Control Charleston, WV 25304 PS Fo. U.S. Postal Service CERTIFIED MAIL® REC Domestic Mail Only For delivery information, visit our website Hun 179 50n W 25705 Extra Services & Fees (check box, add fee exappositate) Return Receipt (hardcopy) Return Receipt (electronic) Return Receipt (electronic) Certified Mail Restricted Delivery Adult Signature Required Adult Signature R

RECEIVED
Office of Oil and Gas

FEB 0 1 2022

WV Department of Environmental Protection WW-9 (5/16)

API Number	47 -	039	-	02507
Operator's W	ell N	o.4-S-160)	

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) Wilcher Creek	Quadrangle Quick		
Do you anticipate using more than 5,000 bble of water to co	nplete the proposed well we	ork? Yes No _✓	1
Will a pit be used? Yes V No			
If so, please describe anticipated pit waste: Produ	ced fluid and cement return	S	
Will a synthetic liner be used in the pit? Yes	No If so, wh	at ml.?_20	-
Proposed Disposal Method For Treated Pit Wastes	:		
Land Application (if selected pro Underground Injection (UIC Per Reuse (at API Number Off Site Disposal (Supply form)	mit Number_2D03902327 002	2)
Will closed loop systembe used? If so, describe: N/A			
Drilling medium anticipated for this well (vertical and horiz	ontal)? 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, remove	red offsite, etc. N/A		
-If left in pit and plan to solidify what medium will	be used? (cement, lime, sa	wdust) N/A	
-Landfill or offsite name/permit number? N/A			
Permittee shall provide written notice to the Office of Oil at West Virginia solid waste facility. The notice shall be provi where it was properly disposed.	nd Gas of any load of drill c ded within 24 hours of rejec	uttings or associated wastere tion and the permittee shall a	ejected at any also disclose
I certify that I understand and agree to the terms a on April 1, 2016, by the Office of Oil and Gas of the West provisions of the permit are enforceable by law. Violations or regulation can lead to enforcement action. I certify under penalty of law that I have person application form and all attachments thereto and that, based the information, I believe that the information is true, acc submitting false information, including the possibility of fin Company Official Signature Company Official Title Director Production	Virginia Department of En- of any term or condition of nally examined and am fan on my inquiry of those indi- urate, and complete. I am	vironmental Protection. I un the general permit and/oroth iliar with the information s viduals immediately respons	aderstand that the per applicable law submitted on this sible for o btaining cant penalties for the state of
Subscribed and sworn before me this day of	January, 2022	•	
Phifis	a. Coply	Notary Public	RECEIVED Office of Oil and Gas
My commission expires September 16, 2023	V		FEB 0 1 2022

WV Department of Environmental 6/200122

Operator's Well No. 4-S-160

Proposed Revegetation Treat	tment: Acres Disturbed 1 +/-	Preveg etation pH	
	Tons/acre or to correct to p		
Fertilizer type	10-20-20 or equivalent	-	
		_lbs/acre	
Mulch_2	Tor	ns/acre	
	<u>s</u>	eed Mixtures	
Te	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		
provided). If water from the L, W), and area in acres, of	pit will be land applied, provide the land application area.	e water volume, include dimensions (L,	ling this info have been W, D) of the pit, and dimension
Plan Approved by:	pit will be land applied, provide the land application area. lved 7.5' topographic sheet.	e water volume, include dimensions (L,	W, D) of the pit, and dimension
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provided). If water from the L, W), and area in acres, of Photocopied section of invo	pit will be land applied, provide the land application area. lved 7.5' topographic sheet.	e water volume, include dimensions (L,	W, D) of the pit, and dimension
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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.	e water volume, include dimensions (L,	W, D) of the pit, and dimension

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West Virginia Department of Environmental Protection Office of Oil and Gas

WELL LO	CATION FORM: GPS		
_{API:} 4703902507	WELL NO.: 4		
FARM NAME: Kan & Hock		Co	
RESPONSIBLE PARTY NAME:	Diversified Production	on LLC	
county: Kanawha			
QUADRANGLE:	Quick		
SURFACE OWNER: ACIN L	LC		
ROYALTY OWNER: William	A McMillan Etal		
UTM GPS NORTHING: 42377	715.18		
UTM GPS EASTING: 461536	GPS ELEVATI	_{ON:} 1223.21	
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: me evel (MSL) – meters. 55 meters 65 cocessed Differential	PI number on the s that do not meet	nd Gas 2022 ent of
Rea	al-Time Differential		
4. Letter size copy of the tall the undersigned, hereby certify this belief and shows all the information prescribed by the Office of Oil and Digitally signed by Austin Sutler	required by law and the regulatio Gas.	knowledge and ns issued and	
Date: 2022.01.14 16:07:44	Sr. Proj. Manager	1/14/2022	
Signature	Title	Date	



Stansberry, Wade A <wade.a.stansberry@wv.gov>

Plugging Vertical Well Work Permit API: 47-039-02471 & 47-039-02507)

1 message

Stansberry, Wade A <wade.a.stansberry@wv.gov>

Tue, Feb 15, 2022 at 8:45 AM

To: "Mast, Jeff" <jmast@dgoc.com>, Sallie Robinson <sallierobinson@kanawha.us>, "Urban, Terry W" <terry.w.urban@wv.gov>

Terry.

I have printed off IR-8s for you.

I have attached a copy of the newly issued well permit number. This will serve as your copy.

47-039-02471 - 1-S-1 55 47-039-02507 - 4-S-160

If you have any questions, then please contact us here at the Office of Oil and Gas.

Thank you,

Wade A. Stansberry
Environmental Resource Specialist 3
West Virginia Department of Environmental Protection
Office of Oil & Gas
601 57th St. SE
Charleston, WV 25304
(304) 926-0499 ext. 41115
(304) 926-0452 fax
Wade.A.Stansberry@wv.gov

3 attachments





