

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 1, 2022 WELL WORK PLUGGING PERMIT Vertical Plugging

DIVERSIFIED PRODUCTION LLC 101 MCQUISTON DRIVE JACKSON CENTER, PA 16133

Re: Permit approval for 5-S-161 47-039-02522-00-00

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:5-S-161Farm Name:KANAWHA & HOCKING C &U.S. WELL NUMBER:47-039-02522-00-00VerticalPluggingDate Issued:2/1/2022

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</u> 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-41 Rev.		4703902522 1) Date January 18 , 2022 2) Operator's Well No. 5-5-161 3) API Well No. 47 039 02522
	DEPARTMENT OF ENVIR	EST VIRGINIA RONMENTAL PROTECTION OIL AND GAS
	APPLICATION FOR A PERM	AIT TO PLUG AND ABANDON
4)	Well Type: Oil/ Gas X/ Liquid (If "Gas, Production X or Und	d injection/ Waste disposal/ derground storage) Deep/ ShallowX
5)	Location: Elevation 1701.91 feet	Watershed Left Fork Witcher Creek
	District Cabin Creek	County Kanawha Quadrangle Quick
6)	Well OperatorDiversified Production, LLCAddress414 Summers Street	7)Designated Agent Jeff Mast Address 31 Hickory Drive
	Charleston, WV 25301	Barboursville, WV 25504
8)	Oil and Gas Inspector to be notified _{Name} Terry Urban	9)Plugging Contractor Name Diversified Production, LLC (in-house rig)
	Address P.O. Box 1207	Address 1951 Pleasantview Ridge Road
	Clendenin, WV 25045	Ravenswood, WV 26164

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

Operator to Cover woll Cement All Dilicas Formations INcluding Casing Cuts Salt, Elevation, Couls, & Freshwerter

RECEIVED Office of Oil and Gas

JAN 2 1 2021

WV Department of 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 Augustuh Date 1-31-33

02/11/2022

Plugging Prognosis

API #: 4703902522 West Virginia, Kanawha Co. Lat/Long: 38.27306789, -81.48781383 Nearest ER: CAMC Memorial Hospital 3200 MacCorkle Ave SE, Charleston, WV 25304

Casing Schedule:

10" @ 43' 8-5/8" @ 431' (cement to 294' w/ 85 sxs) 6-5/8" used in drilling but none left in well 4-1/2" @ 1,746' (cemented to 1,468' w/ 20 sxs) 2" tbg @ 1,684' TD @ 1,746'

Completion: Injun - 1,680'-1,688'

Fresh Water: 77'; 779'-789'; 970'-975' Salt Water: None listed Gas Shows: 1,568'-1,574'; 1,602-1,607 Oil Shows: 779'-789' Coal: None listed Elevation: 1,078.24'

103/4" CASING MAY HAVE BEEN USED, WHICH WOULD HAVE ALLOWED EA A gils" BIT TO BE USED. 85 SKS OF CLASS A CEMENT WORD FILL A 97/8" HOLE TO 790', 85/4" SHOULD BE CTS. Yum

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

- 2. Check and record pressures on csg/tbg.
- 3. Pull tbg and lay down.
- 4. Check TD w/ wireline.
- 5. Run in to depth @ 1,668'. Kill well as needed with 6% bentonite gel and fill rat hole. Pump at least 10 bbls gel. Pump 220' C1A cement plug from 1,688' to 1,468' (perforations and gas show plug) Tag TOC. Top off as needed.
- 6. TOOH w/ tbg to 1,468'. Pump 6% bentonite gel from 1,468' to 1,079'.
- 7. Free point 4-1/2" csg. Cut and TOOH. Set 100' C1A cement plug across csg cut. 50' in/out of cut. Do not omit any plugs listed below. Perforate as needed. RECEIVED
- 8. TOOH w/ tbg to 1,079'. Pump 400' C1A cement plug from 1,079' to 679' (elevation, oil show Office of Oil and Gas and freshwater plug) JAN 21 2021
- 9. TOOH w/ tbg to 679'. Pump 6% bentonite gel from 679' to 481'.
- WV Department of 10. TOOH w/ tbg to 481'. Pump 100' C1A cement plug from 481' to 381' (8-5/8" csg shoe plug) Environmental Protection
- 11. TOOH w/ tbg to 381'. Pump 6% bentonite gel from 381' to 127'.
- 12. Free point 8-5/8" csg. Cut and TOOH. Set 100' C1A cement plug across csg cut. 50' in/out of cut. Do not omit any plugs listed below. Perforate as needed.
- 13. TOOH w/ tbg to 127'. Pump 127' C1A cement plug from 127' to surface (fresh water and surface plug)

14. Reclaim location and well road to WV DEP specifications and erect P&A well monument. Derotuto Corre wat Comet All Octe 6PS formations, Including CHSing Cuts, SQLF, Elevolion, COUL and Freshwate (HSING Cuts, SQLF, Elevolion, COUL and Freshwate 1-11-20

47039025226

	20	
n	4' '1	
	, V,	

Quadrangle Clendenin

Form OG-10

Permit No. Kan - 2522



STATE OF WEST MUGINIA DEPARTMENT OF MINE DIVISION OIL AND GAS WELLS DIVISION

Spudder Cable Tools 国

Rotary

Storage C. NOLL

(KIND)

1680 - 1688

WELL RECORD

Oil or Gas Well Gas

Company Spartan Gas Company	Casing and	Used in	Left in	
Address P.O. Box 766, Charleston, West Va.	Tubing	Drilling	Well	Packers
Farm Kanawha Hock. Coal & Coke Acres 14,128	Size	1		
Location (waters) Witchers Creek	16			
Well No. 5-S-161 Eley. 1078.24	13			
District Cabin Creek County Kanawha	10		431	Size of
The surface of tract is owned in fee by Kanawha & Hocking	81/4			
Coal & Coke Co. Address Shrewsbury, W.Va.	6%	15091	None	
Mineral rights are owned by Same	5 3/16			
Address	41/2	301/.	171.61	
Drilling commenced June 7, 1971	3			Perf. top 1680
Drilling completed July 8, 1971	2	1684!	1684!	Perf. bottom 1688
Date Shot	Liners Used			Perf. top
With	····	<u> </u>		Perf. bottom
Open Flow 2 /10ths Water in Inch	Attach copy of			
	CASING CEM	IENTED	SIZE	No. FtDate
Volume15M Cu. Ft.				OM.
Rock Pressurehrs.				•
Oil	COAL WAS E	NCOUNTERE	D AT.	FEET. INCHE
WELL ACIDIZED (DETAILS)	FEI	ETIN	CHES	FEET. INCHES
$\frac{7}{12}$	FEI	ET. IN	CHES	FEET INCHES

WELL FRACTURED (DETAILS) 7/12/71 - 700 Bbls., 28,000# Sand, 500 Gal. Acid

RESULT AFTER TREATMENT (Initial open Flow or bbls.) 150 MCF

150,000 ROCK PRESSURE AFTER TREATMENT 365# HOURS 72 Fresh Water Feet

Depth.....

Producing	Sand Injun
-----------	------------

Formation	Color	Hard or Soft	Тор	Bottom	Oll, G2s or Water	Depth	Remarks
ravel			0	43			
Sand			43	50			Freshaut
Slate			50	77		9	1 . un
and			77	127	3 Bailors Wa	ton @ 771	Freshall
late			127	175	J 1011010 110		
and			175	225			
late			225	347			
and			347	370			
late			370	378		1	
and			378	398			
late			398				
and			432	432			
ime	1		432	470			
and			485	485			
late			580	580			
and	1		611	611			
late			650	650			DEOEWED
and				700		12.1 (S. Severation) -	RECEIVED
late			700	815	Sho Oil & W	ater @ 779 -	789 Office of Oil and G
and			815	840			
ate			840	872		~	JAN 2 1 202
and			872	881		Su	
late			881	1155	HFW - 970-9	75 / /	WV Department c
and			1155	1230		-	Environmental Protect
late			1230	1383			Entromation
and			1383	1385			
late			1385	1407			
			1407	1430			
1 align			1430	1471			



47039025226

Formation	Color	Hard or Soft	Тор 4	Bottom	Oil, Gas or Water	Depth Found	Remarks	
Slate Lime Slate Lime (Big Sand Slate	Lime)		1471 1477 1487 1494 1671 1710	1477 1487 1494 1671 1710 1747	Sho gas @	1568'		
		Total Depth		1747				
					Gas	1568–1574 s 1602 – 1607	ho 8/10 W 2" Dec. to 2/10 W 1"	
	Cement R	ecord						
	6/11/71	- Cemented 8 with 85 sac Halliburton	5/8" Casing ks - 2% Cal.	Chl.				
	1	Cemented 4 ¹ / ₂ " Sacks - 2% C Halliburton.						
				1				
								RECEIVED
								RECEIVED ice of Oil and Ga
								AN 21 2021
							W Envir	V Department of onmental Protec

.

Date___August 24_____, 19_71_

APPROVED SPARTAN GAS COMPANY , Owner

Elian T. jechold (Title) 1 By. 02/11/2022

039 O THIS IS AN ESTIMATE ONLY ACTUAL INFORMATION WILL BE SUBMITTED ON OG-10 UPON COMPLETION X PROPOSED WORK ORDER TO: DRILL DEEPEN FRACTURE WELL RESPONSIBLE AGENT: NAME Spartan Gas Company NAME William T. Ziebold Va, ADDRESS P. O. Pox 766, Charleston, W. Va. ADDRESS P. 0. Boy 766. Charleston, W.-TELEPHONE 343-4519 TELEPHONE 313-1579 • : ' DRILLING CONTRACTOR: (IF KNOWN) LAND OWNER: NAME Kanawha & Hocking Coal & Coke Corrany NAME Firk Drilling Commany TELEPHONE 518-5722 TELEPHONE 91,9-1,751 ESTIMATED DEPTH OF COMPLETED WELL: 1780 ROTARY PROPOSED GEOLOGICAL FORMATION: Injun CIBLE TOOLS 1 DISPOSAL TYPE OF WELL: OIL GAS COMB STORAGE 1 34 TYPE WASTE WATER FLOOD OTHER RECYCLING 1. TENTATIVE CASING PROGRAM: 1 CASING AND TUBING CENENT TO BE USED FOR DRILLING BE LEFT 13 3/8 11 3/4 liana 301 301 9 5/8 \$ 5/8 to Sacis 1,301 1,201

15/101

1780'

Mene

17301

2

For Coal Company

Official Title

APPROXIMATE DEPTHS OF EXPECTED POTABLE WATER STRATA MA

None

25 Sacia

APPROXIMATE DEPTHS OF EXPECTED WORKABLE COAL SEAMS? LCO!

IS COAL BEING MINED IN THE AREA? 50

WELL OPERATOR

20 16

E: ż

10 3/4

5 1/2

4 1/2

3 1/2 2 3/8 LINERS USED

7

NOTE: Cement behind 8 5/8ª engine will be calculated to circulate to aut

14 Coal Company, owner WAIVER: I the undersigned, Agent for or operator of the coal under this lease have examined and placed on our mine maps this proposed well location.

(2411 Company have no objections to said well We the bring drilled at this location, providing operator has complied with all rules and . regulations in Articles 4, 5, and 7, Chapter 22 of the West Virginia Code.

CO

i L

2.4

(F

WW-4A Revised 6-07		 Date Oper 5-S-10 API V 	rator's V 51	December 18, 20 Vell Number :: 47 -		- 02522
	STATE OF V	VEST VIRGIN	IA			
DEPARTI	MENT OF ENVIRONMENTAL NOTICE OF APPLICATION TO	PROTECTI	ON, OF	FICE OF O	OIL AND GA	4S
4) Surface Owner(s) to	be served: 5) (a) Co	al Operator				
	wk Mining LLC	Name	None			
	atergap Road	Address				•
Preston	sburg, KY 41653					
(b) Name		(b) Coal Owr	ner(s) w	ith Declarati	ion	
Address		Name	Blackhaw	k Land & Resour	ces	
		Address	1801 Wa	lergap Road		
Street Branch			Prestonst	ourg, KY 41653		
(c) Name		Name				
Address		Address				
6) Inspector Terry U	Irban	(c) Coal Less	ee with	Declaration	l	
Address P.O. Bo	ox 1207	Name	No Decla	ration		
Clende	nin, WV 25045	Address				
Telephone 304-549	9-5915					

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.

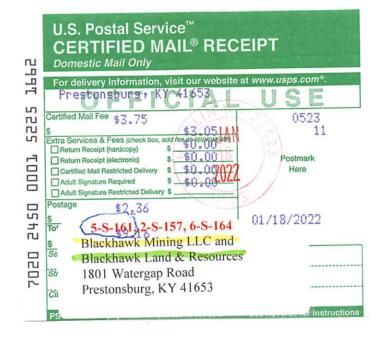
OFFICIAL SEAL NOTARY PUBLIC STATE OF WEST VIRGINIA Phyllis A. Copley 144 Willard Circle Hurricane, WV 2528 My Commission Expires September 16, 2022Address	Diversified Production, LLC Jeff Mast Director Production 414 Summers Strret Charleston, WV 25301	
	Charlesion, 444 20001	
Telephone	304-543-6988	RECEIVED
		Office of Oil and Gas
Subscribed and sworn before me this 18th da	ay of January 2022	JAN 2 1 2021
This la C.	Coply Notary Public	110/0
My Commission Expires September 16, 2023		WV Department of
	Martin	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 Office at <u>depprivacyoffier@wy.goy</u>.

47039025228

Well: 5-5-161 47-039-02522P



RECEIVED Office of Oil and Gas

JAN 2 0 2022

WV Department of Environmental Protection

02/11/2022

4703902522P

	ber 47 - <u>039</u> - <u>02522</u> s Well No. 5-S-161
STATE OF WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL PROTEC OFFICE OF OIL AND GAS FLUIDS/ CUTTINGS DISPOSAL & RECLAMATION	CTION
	ode _494524121
Watershed (HUC 10) Left Fork Witcher Creek Quadrangle Quick	
Do you anticipate using more than 5,000 bb/s of water to complete the proposed well work Will a pit be used? Yes <u>V</u> No <u>No</u>	
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	t ml.? 20
Proposed Disposal Method For Treated Pit Wastes:	
Land Application (if selected provide a completed form WW-9 Underground Injection (UIC Permit Number 2D03902327 002 Reuse (at API Number)-GPP)
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 ba	ased, 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, saw	
-Landfill or offsite name/permit number? <u>N/A</u>	
Permittee shall provide written notice to the Office of Oil and Gas of any load of drill cut West Virginia solid waste facility. The notice shall be provided within 24 hours of rejection where it was properly disposed.	ttings or associated waste rejected at any ion and the permittee shall also disclose
I certify that I understand and agree to the terms and conditions of the GENERA on April 1, 2016, by the Office of Oil and Gas of the West Virginia Department of Envir provisions of the permit are enforceable by law. Violations of any term or condition of th or regulation can lead to enforcement action. I certify under penalty of law that I have personally examined and am famili application form and all attachments thereto and that, based on my inquiry of those indivi the information, I believe that the information is true, accurate, and complete. I am are	ironmental Protection. I understand that the negeneral permit and/orother applicable law liar with the information submitted on this iduals immediately responsible for obtaining
submitting false information, including the possibility of fine or imprisonment.	OFFICIAL SEAL
Company Official Signature	NOTARY PUBLIC
Company Official (Typed Name) Jeff Mast	Phyllis A. Copley 144 Willard Circle
Company Official Title Director Production	Hurricane, WV 25526 My Commission Expires September 16, 2023
	Bassessananananananananananananananananan
Subscribed and sworn before me this 15^{μ} day of β , 2022	RECEIVED Office of Oil and Gas
- Thiles a. Coplay	_ Notary Public JAN 21 2021
My commission expires September 16, 2023	W// Department of

1

.

WV Department of Environmental Protection

02/11/2022

V (:

.

Form WW-9

Operator's Well No. 5-S-161

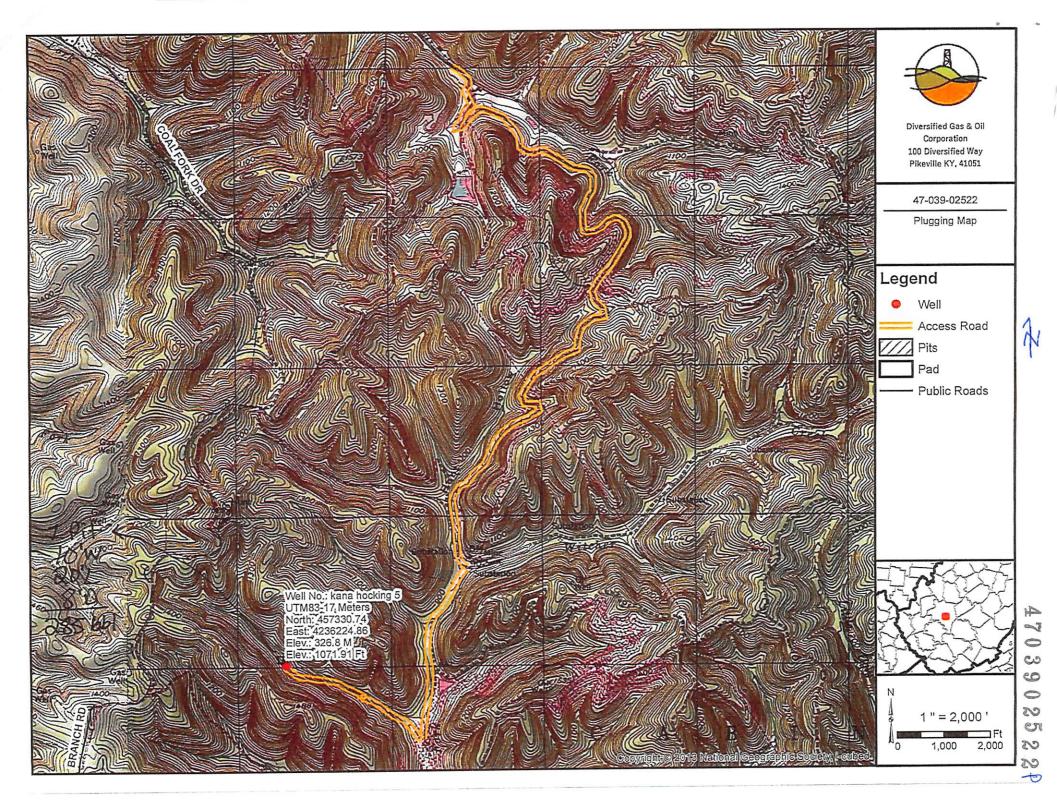
ment: Acres Disturbed <u>1 +/-</u>	Preveg etation pI	ł		
Tons/acre or to correct to	р _{РН} <u>6.5</u>			
10-20-20 or equivalen	.t			
	lbs/acre			
Mulch 2 Tons/acre				
	Seed Mixtures			
mporar y	Perma	nent		
lbs/acre	Seed Type	lbs/acre		
40	Red Fescue	15		
5	Alsike Clover	5		
15				
	Tons/acre or to correct to 10-20-20 or equivaler T mporary lbs/acre 40 5	Tons/acre or to correct to pH 6.5 10-20-20 or equivalent lbs/acre <u>Seed Mixtures</u> mporary Perma lbs/acre Seed Type 40 Red Fescue 5 Alsike Clover		

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.

Plan Approved by: furtifue the	
Comments	
	RECEIVED Office of Oil and Gas
	JAN 2 1 2021
Title: Inspiritules Loss Date: 1-21-2	WV Department of Environmental Protection
Field Reviewed? ()Yes ()No	



WW-7	
8-30-06	
West Virginia Department of E Office of Oil a	nd Gas
WELL LOCATION	
API: 4703902522	WELL NO.:_5
FARM NAME: Kan & Hocking Coa	al & Coke Co.
RESPONSIBLE PARTY NAME: Diversif	
county: Kanawha	
QUADRANGLE:Qu	
SURFACE OWNER: Blackhawk Mini	ing LLC
ROYALTY OWNER: Pardee Resour	
UTM GPS NORTHING: 4236224.86	
UTM GPS EASTING: 457330.74	GPS ELEVATION: 1071.91
The Responsible Party named above has chosen t preparing a new well location plat for a plugging above well. The Office of Oil and Gas will not ac the following requirements:	permit or assigned API number on the

- Datum: NAD 1983, Zone: 17 North, Coordinate Units: meters, Altitude: 1. height above mean sea level (MSL) - meters.
- 2. Accuracy to Datum - 3.05 meters
- 3. Data Collection Method:

4.

Survey grade GPS ____: Post Processed Differential _____

Real-Time Differential _____ X Mapping Grade GPS X : Post Processed Differential

Real-Time Differential

Letter size copy of the topography map showing the well location.

RECEIVED Office of Oil and Gas

JAN 21 2021

d WV Department of Environmental Protection

I the undersigned, hereby certify this data is correct to the best of my knowledge and
belief and shows all the information required by law and the regulations issued and
prescribed by the Office of Oil and Gas.

Twoth Sutler	Digitally signed by Austin Sutler Date: 2022.01.14 16:20:35 -05'00'	Sr. Proj Manager	1/14/2022
Signature	<u> </u>	Title	Date
			02/11/2022



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

Plugging Vertical Well Work Permit API: 47-039-02488, 02522, 02541, 02929, 03430, 03431) 1 message

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

Wed, Feb 2, 2022 at 7:23 AM

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

Terry,

I will be in the office tomorrow and have hard copies ready for you along with release sheets.

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

47-039-02488 -47-039-02522 -47-039-02541 -47-039-02929 -47-039-03430 -47-039-03431 -

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

7 attachments

- 47-039-02488 Copy.pdf 2727K
- 2838K
- ₱ 47-039-03430 Copy.pdf 3045K
- 2 47-039-02541 Copy.pdf 3302K
- 47-039-02522 Copy.pdf 3798K
- ₱ 47-039-03431 Copy.pdf 3393K
- BIR-8 Blank.pdf