

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

Monday, June 14, 2021 WELL WORK PLUGGING PERMIT Vertical Plugging

DIVERSIFIED PRODUCTION LLC 101 MCQUISTON DRIVE JACKSON CENTER, PA 16133

Re: Permit approval for WELCHLANDS 29-AW 47-109-00980-00-00

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: WELCHLANDS 29-AW Farm Name: CXS MINERALS, INC. U.S. WELL NUMBER: 47-109-00980-00-00 Vertical Plugging Date Issued: 6/14/2021

Promoting a healthy environment.

4710900980P

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.
- 4. This well is under a consent order and must be plugged within two years of the date of issuance of this permit.

06/18/2021

WW-41 Rev.	1B . 2/01	1) Date February 4 , 2021 2) Operator's Well No. UIC Welch Lands 29 3) API Well No. 47-109 - 00980
	STATE OF WEST DEPARTMENT OF ENVIRON OFFICE OF OI	MENTAL PROTECTION
	APPLICATION FOR A PERMIT	TO PLUG AND ABANDON
4)	Well Type: Oil/ Gas/ Liquid d (If "Gas, Production or Under	njection X / Waste disposal/ ground storage) Deep/ Shallow X
5)		Natershed Marsh Fork County Wyoming Quadrangle McGraws
6)	Well Operator Address P.O. Box 6070 Charleston, WV 25362	7) Designated Agent Jeff Mast Address P.O. Box 6070 Charleston, WV 25362
8)	Oil and Gas Inspector to be notified Name Gary Kennedy Address 66 Old Church Lane Pipestem, WV 25979	Plugging Contractor Name Diversified Production, LLC (In House Rig) Address 1951 Pleasant View Ridge Road Ravenwood, WV 26164

5

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

	GORDON / WEIL	PERFORATIONS	4382 - 4411 3862 - 3872	
	RANEWCHIFF	PERFORMTIONS	2064 - 2098	RECEIVED Office of Oil and Gas
Y ^{uv} m			W/ CIA CEMENT	 FEB 1 7 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	Juny Kourd	Date _	2/8/21
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06/18/2021

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Office of Oil and Gas

FEB 1 7 2021

PLUGGING PROGNOSIS

UIC Welch Lands 29 API #47-109-00980 37.6519753436251, -81.4435055497431 Nearest ER: Raleigh General Hospital: 1710 Harper Road. Beckley, WV 25801

Casing Schedule

12 3/4" csg @ 24' 9 5/8" csg @ 697' CTS 7" csg @ 1530' CTS 4 ½" csg @ 4540' TOC 3300' 2 3/8" tbg @ 4380' 2x4 Halliburton R4 packer 4350' TD 4484'

Completion: Frac

Fresh Water: None Recorded Salt Water: 1300', 2910' Gas Shows: Gordon 4374'-4425' Oil Show: None Recorded Coal: 575', 735', 1110', 1424' Elevation: 2461'

5', 735', 1110', 1424' n: 2461' 1. Notify Inspector Gary Kennedy @ 304-382-8402, 48 hours prior to commencing operations.

- 2. Check and record pressures on csg and tbg.
- 3. Release Packer. TOOH LD and inspect tbg.
- 4. Check TD w/ wireline.
- 5. TIH w/ tbg to 4425". Kill well as needed with 6% bentonite gel. Pump 151' C1A cement plug from 4425'-4274' (Gordon gas show). Check TOC. Top off as needed.
- 6. TOOH w/ tbg to 4274'. Pump 6% bentonite gel from 4274'-2960'. TOOH LD tbg.
- **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.
 - 8. TIH w/ tbg to 2960'. Pump 100' C1A cement plug from 2960'-2860' (Salt water).
 - 9. TOOH w/ tbg to 2860'. Pump 6% bentonite gel from 2860'-2461'.
 - 10. TOOH w/ tbg to 2461'. Pump 100' C1A cement plug from 2461'-2361' (Elevation).
- **11.** TOOH w/ tbg to 2361'. Pump 6% bentonite gel from 2361'-1580'.

12. TOOH w/ tbg to 1580'. Pump 330' C1A cement plug from 1580'-1250' (7" csg st, coal, and salt water).

- **13.** TOOH w/ tbg to 1250'. Pump 6% bentonite gel from 1250'-1160'.
- **14.** TOOH w/ tbg to 1160'. Pump 100' C1A cement plug from **1160'-1060' (Coal).**
- 15. TOOH w/ tbg to 1060'. Pump 6% bentonite gel from 1060'-785'.
- **16.** TOOH w/ tbg to 785'. Pump 260' C1A cement plug from **785'-525' (Coal).**
- 17. TOOH w/ tbg to 525'. Pump 6% bentonite gel from 525'-100'
- 18. TOOH w/ tbg to 100'. Pump 100' C1A cement plug from 100'-0' (Surface). TOOH LD tbg. WV Department of Environmental Protection
- **19.** Erect monument with API#, date plugged, and company name.
- 20. Reclaim location and road to WV-DEP specifications.

A	60	POMP 100' CE	inent plu	56 FROM 38	362 -	3762 7	U COUZA	WELL HA	le la
*	119	PSMP 100'	CENENT	PLUG FROM	2064'	- 1964'	to cole	RAJENCLI	fF,
*	CON	LL FROM	970 TO	972, cour	n wl	cement	F104	1030' 50 922	
								9, m/m	06/18/2021

	- State	Date 0 Operator	ctober 29	, 1986	•
NOV 06 1980 State of Mest	Hirminin	-	#29	-AW	_
DEDADTURNT OF		Farm	Welchla	nds	
DIVISION OF OIL & GAS DEPARTMENT OF ENERGY Oil und Gas Z		API No.	47 - 10	9 - 0980	-
DEFACTIVIENT OF EINERGY ON ALL OLD E		_	4 194	4 0 0 0 0	
WELL OPERATOR'S	REPORT		47	10900	9801
OF DRILLING, FRACTURING AND/OR STIMUL	ATING, OR	PHYSICAL	CHANGE		,
				×	
EIL TYPE: Oil / Gas X / Liquid Injection (If "Gas," Production X / Undergrour	/ Waste d Storage	Disposal / Deep	/ Shal	$llow_X /)$	
OCATION: Elevation: 2469' Watershed Man	sh Fork		6 <u>1 1 - 1 - 1 - 1 - 1 - 1 - 1 </u>	- Andread - and a state of the	
District: Slab Fork County Wyom	lng C)uadrangle	McGra	WS	
					х н С
DMPANY Peake Operating Company 423 Charleston National Plaza				Compati	ł
ADDRESS Charleston, WV 25301.	Casing	Used in	Left	Cement fill up	
DESIGNATED AGENT Timothy K. Wilcox	Tubing	Drilling	in Well	Cu. ft.	
ADDRESS Same	Size				
SURFACE OWNER CSX Minerals, Inc.	20-16 Cond.				
ADDRESS Huntington, WV	13-10"	24	24	CTS	ļ
MINERAL RIGHTS OWNER CSX Minerals, Inc.	9 5/8	697	697	CTS	
ADDRESS Huntington, WV	8 5/8				-
OIL AND GAS INSPECIOR FOR THIS WORK Arthur	7	1530	1530	CTS	
St. Clair ADDRESS Brenton, WV	5 1/2				
PERMIT ISSUED June 3, 1985	4 1/2	4540	4540	175 sks.]
DRILLING COMMENCED August 12, 1986	3				RECEIVED
DRILLING COMPLETED August 23, 1986	2			0	Tce of Oil and Gas
IF APPLICABLE: PLUGGING OF DRY HOLE ON				F	EB 1 7 2021
CONTINUOUS PROGRESSION FROM DRILLING OR REWORKING. VERBAL PERMISSION OBTAINED	Liners			W	A Department of
UN				Envir	onmental Protection
GEOLOGICAL TARGET FORMATION Gordon		Dep	th 4323	feet	
Depth of completed well 4625 feet F	Rotary X	/ Cabl	e Tools		×
Water strata depth: Fresh None feet;	Salt 292	feet			Alt
Coal seam depths: 575, 735, 970, 1110, 1424	Is coal	being min	ed in the	a area? No	-
OPEN FLOW DATA					
	Par	, zona der	3862-3		-
Producing formation <u>Gordon/Weir</u> Gas: Initial opén flow 26 Mcf/d					
Final open flow 100/111 Mcf/d			the same state of	A fan Frank an fan fan fan fan fan fan fan fan fan	40
					•
Time of open flow between init.					. 0
Static rock pressure <u>465/450</u> psig(surface		ienc) at ce	1 <u>24</u> DOI	urs snut li	
(If applicable due to multiple completion Second producing formation <u>Ravencliff</u>	/	u zona da-	th part	2008 # 06	
Gase Initial over flow of Mof/d		itial om	El~	-2098 ICC	

1 F.s.

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DETAILS OF PERFORATED INTERVALS, FRACTURING OR STIMULATING, PHYSICAL CHANGE, ETC.

Gordon Perfed: 4394-4411 (13 holes) and 4382-86 (12 holes). Ran 75 Q Foam Frac with

total fluid. BDP 1800#, ATP 1350#, ISIP 800#, 15 min. 750#; Aug. 7 8:00 p.m. Weir Perfed: 30 holes, 3862-3872. Ran 75 Q Foam Frac with 500 gal. 15% HCL; 15,000# 80/100; 45,000# 20/50; 413,000 SCFN₂; 207 bbl. total fluid & acid. BDP 2600#, ATP 1250#, ISIP 900#; 15 min. 800#.

Ravencliff Perfed: 2064-2098 with 26 holes. Ran 75 Q Foam Frac with 500 gal. 15% HCL; 15,000# 80/100; 45,000# 20/50; 495,000 SCFN₂; total 202 bbl. fluid. BDP 2000#, ATP 1650#, ISIP 900#, 15 min. 750#.

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FORMATION COLOR HARD OR SOFT	TOP FEET	BOTTOM FEET	REMARKS Including indication of all fresh and salt water, coal, oil and gas
Overburden	0	15	Hole moist at 1300' ±
Sand & Shale	15	575	
Coal	575	579	
Sandstone w/Shale	579	735	2910' - salt water 3 gpm
Coal	.735	739	asto bare water s gpm
Sandstone w/Shale	739	960	
Shale	960	970	
Coal	970	972	
Shale	972	990	
Sandstone	990	1110	· · · ·
Coal w/Shale Streaks	1110	1116	5 g
Shale	1116	1240	
Sandstone ·	1240	1300	
'Sandstone w/Shale	1300	1424	Gas checks at:
Coal	1424	1428	1970 - Dead
Shale	1428	1475	2100 - 6/10 W 1'' = 26 MCFD
Sandstone	1475	1540	3063 - 50/10 W 1'' = 75
Shale w/Sandstone	1540	1710	$3305 - 20 - 30'/10 \le 2'' = 189 - 231$
Red Shale	1710	1750	$3640 - 10/10 \le 2'' = 133$
Sandy Shale	1750	1810	3857 - 15/10 W 2" = 163
Sandstone ·	1810	1860	4016 - 20/10 W 2'' = 189
Shale	1860	1998	4315 - 4-8/10 W 2" = 84-119 RECEIVED
Sandstone	1998	2008	4469 - 6/10 W 2" = 103 Office of Oil and Gas
Shale	2008	2019	and Gas
Ravencliff .	2019	2098	
Shale	2098	2112	- FEB 1 7 2021
Avis Lime	2112	2153	
Sand & Shale	2153	2875	14/12
Maxton	2875	2986	WV Department of Environment of
Shale	2986	3044	- Infiniental Protoction
Little Lime	3044	3075	* · · · · · · · · · · · · · · · · · · ·
Pencil Cave	3075	3117	
Big Lime	3117	3600	NI
Sand & Shale	3600	3828	, Alter
Weir	3828	3888	
Sand & Shale	3888	4218	
Coffee Shale	4218	4239	
Sandy Shale	4239	4374	5
Gordon	4374	4424	as necessary)
Sandy Shale	4424	4625	as necessary)
	PEAK	E OPERATING C	OMPANY
2 · · · · · ·		Operator	n an
	()	Y,	. /
	By:		sley
	Date: Yo	ctober 29, 19	86 /
	<u> </u>	-	
Note: Regulation 2.02(i) pro	ovides as foi	lows:	t .
"The term 'log' of	r'well log'	shall mean a	systematic
detailed geological runnil, encountered in	the drilling	jormations,	including
L	me merering	oj a wert."	06/18/2021

WELL LOG

4710900980

WW-4A Revised 6-07 1) Date: February 4, 2021

2) Operator's Well Number

UIC Welch Lands 29

3) API Well No.: 47 - 109 - 00980

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

4)	Surface Owne	er(s) to be served:	5) (a) Coal Operator	
	(a) Name	Western Pocahontas Properties LP	Name	
	Address	5260 Irwin Road	Address	
		Huntington, WV 25705		
	(b) Name		(b) Coal Own	ner(s) with Declaration
	Address		Name	Western Pocahontas Properties LP
			Address	5260 Irwin Road
				Huntington, WV 25705
	(c) Name		Name	
	Address		Address	
6)	Inspector	Gary Kennedy	(c) Coal Less	ee 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 PUBLIC	Well Operator	Diversified Production, LLC	Para ana
STATE OF WEST VIRGINIA Phyllis A. Copley	By: Its:	Jeff Mast Director Production	RECEIVED Office of Oil and Gas
144 Willard Circle	Address	P.O. Box 6070	FFR 1 1 2021
Hurricane, WV 25526 My Commission Expires September 16, 2023		Charleston, WV 25362	
; baassaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaa	Telephone	304-543-6988	WV Department of
			Environmental Protection
Subscribed and sworn before me thi	s_2fth da Phille	ay of <u>Lebruary</u> 1821 a. Croly Notary Public	 C
My Commission Expires September 1	6, 2023		

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>.

4710900980P

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FEB 1 1 2021

WV Department of Environmental Protection



	471090098
WW-9	API Number 47 - 109 _ 00980
(5/16)	Operator's Well No. UIC Welch Lands 29
DEPARTMENT OF ENVIRO OFFICE OF	EST VIRGINIA ONMENTAL PROTECTION OIL AND GAS AL & RECLAMATION PLAN
Operator Name_ Diversified Production, LLC	OP Code _494524121
Watershed (HUC 10) Marsh Fork	
Do you anticipate using more than 5,000 bbls of water to complete Will a pit be used? Yes <u>V</u> No <u>No</u>	
If so, please describe anticipated pit waste:	
If so, please describe anticipated pit waste: Will a synthetic liner be used in the pit? Yes	Jo If so, what ml.?
Proposed Disposal Method For Treated Pit Wastes:	
Off Site Disposal (Supply form WW-5	umber_2D0550319)
Will closed loop systembe used? If so, describe:	
Drilling medium anticipated for this well (vertical and horizontal)	Air, freshwater, oil based, etc.
-If oil based, what type? Synthetic, petroleum, etc	
Additives to be used in drilling medium?	
Drill cuttings disposal method? Leave in pit, landfill, removed of	isite, etc
-If left in pit and plan to solidify what medium will be us	ed? (cement, lime, sawdust)
-Landfill or offsite name/permit number?	
Permittee shall provide written notice to the Office of Oil and Gas West Virginia solid waste facility. The notice shall be provided w where it was properly disposed.	

I certify that I understand and agree to the terms and conditions of the GENERAL WATER POLLUTION PERMIT issued on April 1, 2016, by the Office of Oil and Gas of the West Virginia Department of Environmental Protection. I understand that the 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.

	1 2 3 5	NOTARY PUBLIC
Company Official Signature		Phyllis A. Copley
Company Official (Typed Name) Jeff Mast		* 144 Williard Circle Hurricane, WV 25528
Company Official Title Director Production	S	My Commission Expires September 16, 2023 3

Subscribed and sworn before me this_	Ath day of	Lebruary Coolin	, 20 <u>0</u>	RECEIVED Office of Cil and Gas
My commission expires September 16	, 2023	Colory		FEB 1 1 2021

WV Department of Environmer

Propose	d Revegetation Treatment: Acres D	Disturbed 1 +/-	Preveg etation pH _	
Lime 3	Tons/acre or to correct	to pH6.5	_	
Fertilizer ty	pe 10-20-20 or equivalent			
Fertilizer an	10unt	lbs/acre		
Mulch_2		Tons/acre		
	Temporary	Seed Mixtures	Permanent	
Seed Type	lbs/acre	See	d Type lbs/ac	cre
Red Fescue	40	Red Fescu	ie 15	
Alsike	5	Alsike Clov	er 5	5
Annual Rye	15			

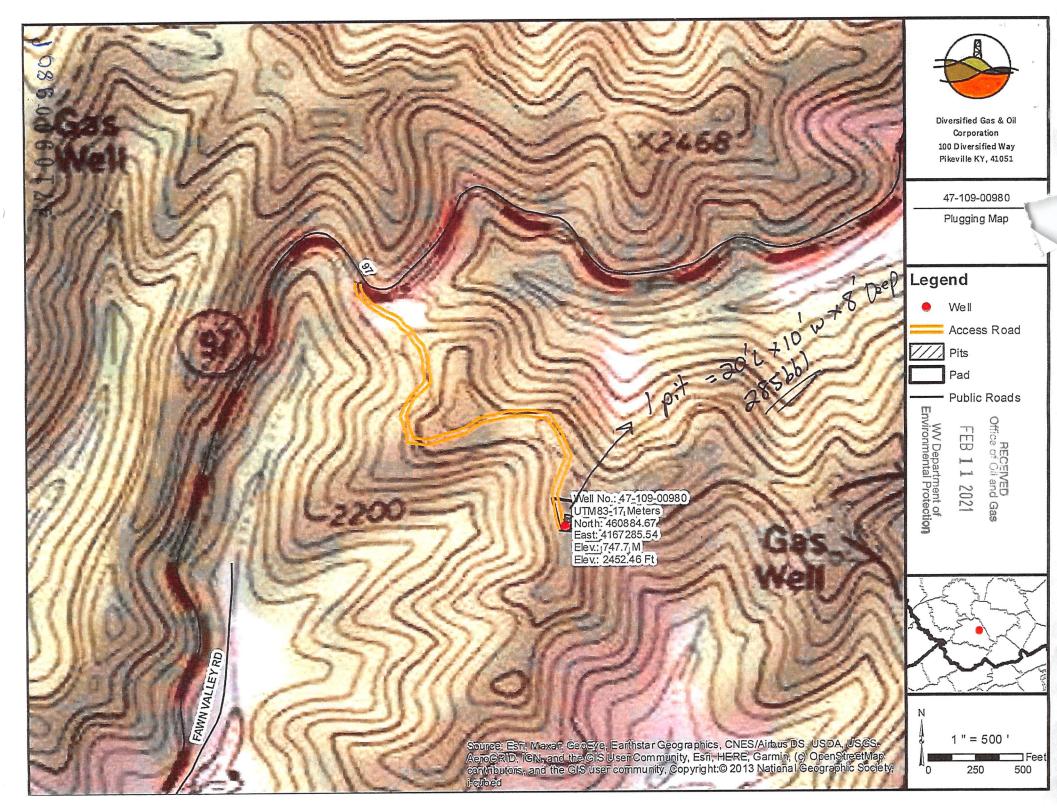
Attach:

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.

Plan Approved by: Any Knowl	
Comments:	
	RECEIVED Office of Oil and Gas
	FEB 1 7 2021
	WV Department of Environmental Protection
Title: <u>Inspector</u> Date: 2/8/2/	
Field Reviewed? ()Yes ()No	

06/18/2021



8-30-06	
(
West Virginia Departme	ent of Environmental Protection
Office	of Oil and Gas
WELL LOCA	ATION FORM: GPS
_{API} : 47-109-00980	WELL NO.: 29-AW
FARM NAME: CXS Minerals	
RESPONSIBLE PARTY NAME:	Diversified Production, LLC
	DISTRICT: Slab Fork
QUADRANGLE: McGraws	
SURFACE OWNER: Western	Pocahontas Properties
ROYALTY OWNER: DP Blue	grass LLC
UTM GPS NORTHING: 4,167,2	
UTM GPS EASTING: 460,884.	

WW-7

The Responsible Party named above has chosen to submit GPS coordinates in lieu of preparing a new well location plat for a plugging permit or assigned API number on the above well. The Office of Oil and Gas will not accept GPS coordinates that do not meet the following requirements:

1. Datum: NAD 1983, Zone: 17 North, Coordinate Units: meters, Altitude: height above mean sea level (MSL) – meters.

2. Accuracy to Datum -3.05 meters	RECEIVED Office of Oil and Gas
3. Data Collection Method: Survey grade GPS: Post Processed Differential	FEB 1 1 2021
Real-Time Differential	WV Department of Environmental Protection
Mapping Grade GPS \underline{X} : Post Processed Differential \underline{X}	
Real-Time Differential	

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

preserved by the Office of On and O.	Director Production	2/4/2021
Signature	Title	Date