

#### 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, May 25, 2021 WELL WORK PLUGGING PERMIT Vertical Plugging

DIVERSIFIED PRODUCTION LLC 101 MCOUISTON DRIVE JACKSON CENTER, PA 16133

Re:

Permit approval for PERKINS 510782

47-035-02818-00-00

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: PERKINS 510782

Farm Name: MEANS, FREEMAN

Chief

U.S. WELL NUMBER: 47-035-02818-00-00

Date Issued: 5/25/2021

Vertical Plugging

Promoting a healthy environment.

### I

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

WW-4B Rev. 2/01

1) Date Ma	arch 23	, 2021
2) Operato		
Well No	510782	
3) API Wel	l No. 47-03	5 - 02818

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

APPLICATION H	FOR	A	PERMIT	TO	PLUG	AND	ABANDON
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4)		1/ Gas X/ Liqui Gas, Production X or Un		/ Waste disposal/ ) Deep/ ShallowX	
17	Location: Ele	evation 720.33 ft	Watershed Spruce	Run	
2.1		strict Washington		Quadrangle Kentuck	
5)	Well Operator	Diversified Production, LLC	7)Designated Age	<sub>ent</sub> Jeff Mast	
1		P.O. Box 6070	Address P.O. Box 6070		
	Address	Charleston, WV 25362		Charleston, WV 25362	
)	Oil and Gas In	nspector to be notified	9)Plugging Contr Name R	ractor & & J Well Services, Inc.	
		'8 Claylick Road	AddressP	P.O. Box 40	
	March	ley, WV 25271		lueysville, KY 41640-0040	

See Attached

Notification must be given to the district oil and gas inspector 24 hours before permitted work can commence.

Work order approved by inspector

#### PLUGGING PROGNOSIS

West Virginia, Jackson County API # 47-035-02818 38.6425284205873, -81.5536942920741

Nearest Emergency Room: Jackson General Hospital: 122 Pinnell Street, Ripley, WV 25271

#### Casing Schedule

13 3/8" csg @ 33' 9 5/8" csg @ 711' cemented to surface 2 320 sks 7" csg @ 1995' cemented to surface w/ 209 sks.

4 1/2" csg @ 5056' cemented w 200 sks @ 1.89 yld. Estimated TOC at 1380'

TD @ 5056

#### Completion

Marcellus frac 5011'-5024'

Fresh Water: 114'
Saltwater: 1475', 1562'
Coal: none reported
Oil Show: none reported

Gas Show: Marcellus 5011'-5024'

Elevation: 756'

- Notify inspectors, Allen Flowers @ 304-522-8308 and Joe Taylor @ 304-380-7469, 48 hrs. prior to commencing operations.
- 2. Tag TD w/ wireline.
- 3. Pull stretch on 4 1/2" csg and estimate free point.
- 4. TIH w/ tbg to 5024'. Kill well as needed with 6% bentonite gel.
- 5. Pump 113' Class A cement plug from 5024'-4911' (Marcellus completion)
  - a. Tag TOC and top off as needed.
- 6. TOOH w/ tbg to 4911'. Load hole with 6% bentonite gel from: 4911'-3500'
- 7. TOOH w/ tbg to 3500'. Pump 100' Class A cement plug from 3500'-3400' (Spacing Plug).
- 8. TOOH w/ tbg to 3400'. Pump 6% bentonite gel from 3400'-2045'.
- 9. TOOH w/ tbg to 2045'. Pump 100' Class A cement plug from 2045'-1945' (7" csg st).
- 10. TOOH w/ tbg to 1945'. Pump 6% bentonite gel from 1945'-1612'.
- 11. TOOH w/ tbg to 1612'. Pump 187' Class A cement plug from 1612'-1425' (saltwater)
  - a. Perforations will be added if free point determined lower than plug depth/
- 12. TOOH w/ tbg to 1425'. Pump 6% bentonite gel from 1425'-756'. TOOH LD tbg
- 13. Perforate 4 1/2" csg @ 756', 716', and 660'.
- 14. TIH w/ tbg to 756'. Load wellbore with 6% bentonite gel and attempt to establish circulation on 7"
- Pack off tbg in 2x4 head. Pump 100' Class A cement plug from 756'-656' (elevation). Monitor circulation on 7". TOOH LD tbg.
  - 16. Perforate 4 1/2" csg at 154'.
  - 17. TIH w/ tbg to 154'. Pack off tbg in 4x2 wellhead. Pump 154' Class A cement plug from 154'-0' (freshwater and surface). Monitor for continued circulation on 7''.
  - 18. Erect monument with API#, date plugged, & company name.
  - 19. Reclaim location and road to WV-DEP specifications.

All plugs will be Tesgel, with wire line, 4 how efter they are set. If

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Office of Oil and Gas

MAY 1 3 2021

WV Department of Environmental Page 14n

State of West Virginia

Division of Environmental Protection

Section of Oll and Gas

API# 4703502818

8	· W	ell Operato	r's Reportiof	Well Wo	<b>k</b> 1				
Farm Na	me Means,	Freeman			Well N	umber 510	782		
Location	Elevation	756	Q	uadrangle	KENTUC	CK			
	District	Washingtor	1	County	Jackson	•	ond		
	Latitude	8800	FSL	Degree 38.00	Minute 40.00	_			
	Longitude	3530	FWL	81.00	32.00		0.00 0.00		
•	Longitude	5000		• • • • • • • • • • • • • • • • • • • •				,	
Company		•	ompany nue Charleston,		ing & ing Size	Used in Drilling	Left in Well	Cement Fill Up Cubic Ft	
Agen	· Cecil	Kay		13	3/8	33	33		•
Inspecto	-	evens		9 5	/8	711	711	320,35	ı
Permit Issued	09/19/20	07		7		1,995	1,995	208.60 378.00	
W	ell Work Com	menced <u>09/2</u>	6/2007	<u> 41</u>	/2	5,056	5,056	376.00	-
	Well Work Co	mpleted 10/2	4/2007						•
Verbal P									
	Permission gr			<del></del>					
Rotary Rig	ı X C	able Rig							
Total Depti	h 5,043								
Wate	r Encountered					•			
Type		From							
	water	1-1/2" @	<u>)</u> 114'						
Salt \	Nater	damp @	) 1475'				RECE		
Salt \	<b>Vater</b>	4" @ 15	662'			C	Office of (	Oil & Gas	
							400 0		
							APR 0	9 2008	
						144	V Dono	whom must a f	
Coal &	Open Mines	<b>3</b>				Envis	v Depa	rtment of	
Type	From					LIIVII	Jimenta	al Protection	
Coal		eported							
•	low Data					5 " W	o	والمغماء	
Producing Form Marcellus	nation				Pay Zor	ie Deptn (π):	See attached fo	of details	
	<del>`</del>	 0	ACF 9/30/67	Date	Oil: Initial	Open Flow	Bbl/d	i	
Gas: Initial C	pen Flow		ACF 10/24/2007			pen Flow			
Fina	I Open Flow					•			
Time of	open flow bety	ween initial and	· · · · · · · · · · · · · · · · · · ·		nours				
Static Roc	k Pressure	24	after 0	hours					
Second Produc	cing Formatio	n		Pay	Zone Dep	oth (ft)			
		M		Date	Oil: Init	tial Open Flo	w	Bbl/d	
Fin	al Open Flow	N	MCF	Date		Open Flow			RECEIVED
Time of	open flow bet	ween initial and	final tests	1	hours				Office of Oil and Gas
Static Rock I	Pressure •	6	after	- hours					MAY 1 3 2021

NOTE: On back of this form put the following

Details of Perforated intervals, fracturing or stimulating, physical change,etc.
 The well log, a systematic detailed geological record of all formations including coal encountered in the well bore

WV Department of Environmental Protection

	For Equitable Production Company	
Ву	glile Britist	
-	11-6-20	
Date	4 8 08	

Well Number 510782

## Equitable Production Company WR-35 Completion Report - Attachment Well-Treatment Summary

API # 4703502818

	Stage I
Date	10/10/2007
FracTyp	70Q Foam
Žone	Marcellus
# of Perfs	38
From/To	5,011 5,024
BD Press	3,942
ATP Psi	3,467
Avg Rate	30
Max Pres	s Psi 3,621
ISIP Psi	2,951
10min SII	2,346 5 min.
Frac Grad	dient 0.81
Sand Pro	ppant 527.69
Canto 110	
Water-b	
SCF N2	926,900
Acid-gal	600 gal
_	7.5%

7.5%			
Formation Name	Depth To	Depth Bottom	Formation Thick
Fill	0.00	9	9.00
Sand	9.00	40	31.00
Sand & Shale	40.00	100	60.00
Shale	100.00	160	60.00
Sand	160.00	200	40.00
Shale	200.00	220	20.00
Sand	220.00	260	40.00
Sand & Shale	260.00	735	475.00
Sand & Shale	735.00	1,462	727.00
SALT SAND	1,462.00	1,702	240.00
BIG LIME	1,702.00	1,840	138.00
BIG INJUN	1,840.00	1,937	97.00
WEIR	1,937.00	2,051	114.00
SUNBURY	2,309.00	2,321	12.00
BEREA	2,321.00	2,324	3.00
UPPER DEVONIAN	2,324.00	3,543	1,219.00
GORDON	2,583.00	2,772	189.00
LOWER HURON	3,543.00	4,212	669.00
JAVA	4,212.00	4,378	166.00
ANGOLA	4,378.00	4,637	259.00
RHINESTREET	4,637.00	5,002	365.00
MARCELLUS	5,002.00	0	0.00

Gas Tests					
Remarks					
odor odor					
odor ·					
odor No Show					
No Show · odor					

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MAY 1 3 2021

WV Department of Environmental Protection WW-4A Revised 6-07

1) Date: March 2	3, 2021		
2) Operator's Well No 510782	ımber		
3) API Well No.: 47 -	035	02818	

### 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	Douglas and Sandra Smith	h	Name	None
Address	85 Gladewood Lane		Address	
	Hurricane, WV 25526			
(b) Name				ner(s) with Declaration
Address			Name	None
			Address	
(c) Name			Name	
Address			Address	-
) Inspector	Joe Taylor		(c) Coal Les	ssee with Declaration
Address	1478 Claylick Road	al	Name	No Declaration
2.444.000	Ripley, WV 25271	SVL	Address	
Telephone	304-380-7469	1/	- Auditoria	
The reaso However,	you are not required to take a	nts is that you have rigl ny action at all.	nts regarding the applic	operator proposes to file or has filed this Notice and Application and
accompar Protection the Appli	nying documents for a permit to	to plug and abandon a w he location described or on mailed by registered	tell with the Chief of the the attached Application or certified mail or de	the Office of Oil and Gas, West Virginia Department of Environmental ion and depicted on the attached Form WW-6. Copies of this Notice, livered by hand to the person(s) named above (or by publication in
********		a H a U		
C 51	OFFICIAL SEAL NOTARY PUBLIC		Diversified Production	n, LLG Jeff Mast
		By:	640	JEH WASI
N S SELECTION	STATE OF WEST VIRGINIA	Tell.	District Deschiption	200 111111
	Phyllis A. Copley	Its:	Director Production	301,1113
		Its: Address	P.O. Box 6070  Charleston, WV 253	

My Commission Expires
Oil and Gas Privacy Notice

Subscribed and sworn before me this

Telephone

September 16, 2023

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 depprivacyoffier@wv.gov.

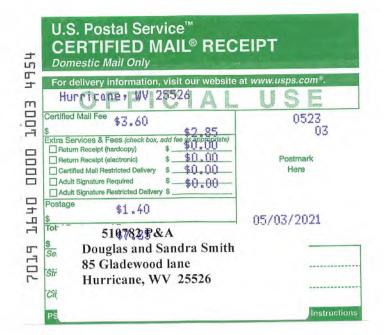
304-543-6988

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WV Department of

Environmental Protection



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Environmental Protection

WW-9 (5/16)

API Number 47 - 035	02818	
Operator's Well No.	510782	

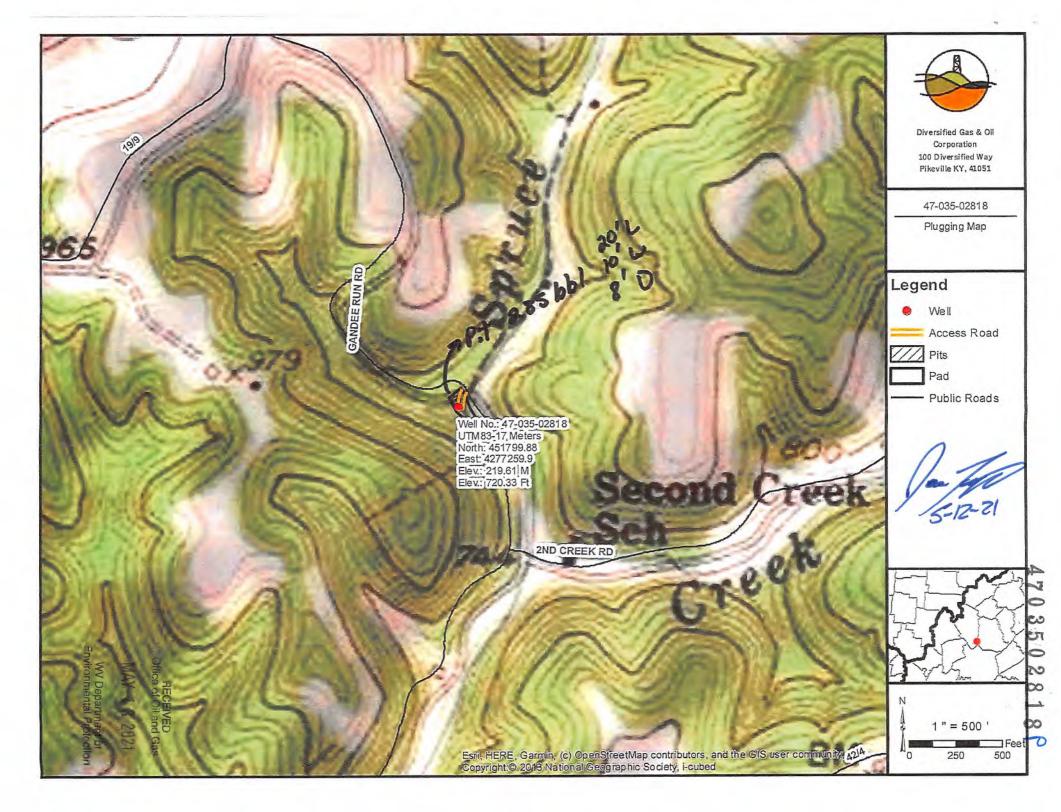
# STATE OF WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL PROTECTION OFFICE OF OIL AND GAS FLUIDS/ CUTTINGS DISPOSAL & RECLAMATION PLAN

Operator Name Diversified Production, LLC	OP Code 494524121
Watershed (HUC 10) Spruce Run (0505000801)	Quadrangle Kentuck
Do you anticipate using more than 5,000 bbls of water to co	omplete the proposed well work? Yes No
Will a pit be used? Yes V No	
If so, please describe anticipated pit waste: Prod	luced fluid and cement returns
Will a synthetic liner be used in the pit? Yes	No If so, what ml.?
Proposed Disposal Method For Treated Pit Waste	
Land Application (if selected pr Underground Injection (UIC Po	ovide a completed form WW-9-GPP) ermit Number 47-119-00724 )
Off Site Disposal (Supply form Other (Explain	WW-9 for disposal location)
Will closed loop systembe used? If so, describe: N/A	
Drilling medium anticipated for this well (vertical and hor	izontal)? Air, freshwater, oil based, etc. N/A
-If oil based, what type? Synthetic, petroleum, et	c, N/A
Additives to be used in drilling medium? N/A	RECEIVED Office of Oil and Gas
Drill cuttings disposal method? Leave in pit, landfill, remo	oved offsite, etc. N/A
-If left in pit and plan to solidify what medium wi	ill be used? (cement, lime, sawdust) N/A MAY 1 3 2021
-Landfill or offsite name/permit number? N/A	WV Department of Environmental Protection
Permittee shall provide written notice to the Office of Oil West Virginia solid waste facility. The notice shall be providere it was properly disposed.	and Gas of any load of drill cuttings or associated waste rejected at any vided within 24 hours of rejection and the permittee shall also disclose
on April I, 2016, by the Office of Oil and Cas of the Web provisions of the permit are enforceable by law. Violation or regulation can lead to enforcement action.  I certify under penalty of law that I have personable at the personal leading form and all attachments thereto and that, base	and conditions of the GENERAL WATER POLLUTION PERMIT issued st Virginia Department of Environmental Protection. I understand that the s of any term or condition of the general permit and/or other applicable law conally examined and am familiar with the information submitted on this edon my inquiry of those individuals immediately responsible for o btaining courate, and complete. I am aware that there are significant penalties for sine or imprisonment.  OFFICIAL SEAL NOTARY PUBLIC STATE OF WEST VIRGINIA Phylle A Copely 144 Willard Circle Hurricane, WV 25528  My Commission Expires September 18, 2023
Subscribed and swom before me this 394 day  My commission expires September 16, 2023	of March, 2021  a. Cyply Notary Public
	5-12-05/28/2021

Operator's Well No. 510782

Fertilizer type	Fertilizer type	Lime 3	Tons/acre or to correct	to pH 6.5	
Fertilizer amount	Seed Mixtures   Seed Mixtures		10-20-20 or equivalen	ıt	
Seed Mixtures  Temporary  Seed Type  Ibs/acre  Red Fescue  40  Red Fescue  15  Alsike  5  Alsike  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 did. (L, W), and area in acres, of the land application area.  Photocopied section of involved 7.5' topographic sheet.	Seed Mixtures  Temporary  Seed Type  Bos/acre  Red Fescue  40  Red Fescue  Alsike  5  Alsike  5  Alsike Clover  5  Annual Rye  Attach:  Maps(s) of road, location, pit and proposed area for land application (unless engineered plans including this info have been novided). If water from the pit will be land applied, provide water volume, include dimensions (L, W, D) of the pit, and did L, W), and area in acres, of the land application area.  Photocopied section of involved 7.5' topographic sheet.			lbs/acre	
Temporary  Seed Type  Book See	Temporary  Seed Mixtures  Seed Type  Bos/acre  Red Fescue  Alsike  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 rovvided). If water from the pit will be land applied, provide water volume, include dimensions (L, W, D) of the pit, and did L, W), and area in acres, of the land application area.  Photocopied section of involved 7.5' topographic sheet.	Mulch 2		Tons/acre	
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 did (L, W), and area in acres, of the land application area.  Photocopied section of involved 7.5' topographic sheet.	Seed Type   Ibs/acre   Seed Type   Ibs/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 did L, W), and area in acres, of the land application area.  Photocopied section of involved 7.5' topographic sheet.				
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	An playe of the page of a property	Maps(s) of road, location, rovided). If water from t L, W), and area in acres,	he pit will be land applied, pro of the land application area.	vide water volume, include dimensions (L	ding this info have bee , W, D) of the pit, and o
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		Maps(s) of road, location, provided). If water from t (L, W), and area in acres, Photocopied section of in Plan Approved by:	he pit will be land applied, pro of the land application area.  volved 7.5' topographic sheet.	vide water volume, include dimensions (L	, W, D) of the pit, and o
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Title: OOS Insparke Date:		Maps(s) of road, location, provided). If water from to (L, W), and area in acres, Photocopied section of in Plan Approved by:  Comments:  July 10058	he pit will be land applied, pro of the land application area.  volved 7.5' topographic sheet.	vide water volume, include dimensions (L	, W, D) of the pit, and o

WV Department of Environmental Protection 05/28/2021





## West Virginia Department of Environmental Protection Office of Oil and Gas

WELL I	OCATION FORM: GPS		
<sub>API:</sub> 47-035-02818	WELL NO.: 5	10782	
FARM NAME: Means, F			40
RESPONSIBLE PARTY NAM	E: Diversified Producti	on LLC	
COUNTY: Jackson	bistrict: Wa	shington	
QUADRANGLE: Kentuck			
SURFACE OWNER: Doug	las and Sandra Smith		_
ROYALTY OWNER: Ed C	. Perkins and M.E. Co	x Trust	
UTM GPS NORTHING: 4,2			
	799.9 GPS ELEVAT	<sub>ION:</sub> 720.33	3
preparing a new well location pla above well. The Office of Oil and the following requirements:  1. Datum: NAD 1983, Z height above mean se 2. Accuracy to Datum – 3. Data Collection Meth		API number on the es that do not meet	
Rea	al-Time Differential		
Mapping Grade GPS X : 1	Post Processed Differential X		
4. Letter size copy of the I the undersigned, hereby certify	Real-Time Differential  the topography map showing the wath this data is correct to the best of my tion required by law and the regulation	knowledge and ons issued and	RECEIVED Office of Oil and Gas MAY 1 3 2021 WV Department of
1 Ab	Director Production	03/19/202	nvironmental Protection
Signature	Title	Date	