

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

Austin Caperton, Cabinet Secretary www.dep.wv.gov

Wednesday, August 12, 2020 WELL WORK PLUGGING PERMIT Vertical Plugging

CORE APPALACHIA OPERATING LLC 101 MCQUISTON DRIVE

JACKSON CENTER, PA 16133

Re: Permit approval for 8600 47-099-01100-00-00

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:8600Farm Name:ELMER AND EMMA WALKERU.S. WELL NUMBER:47-099-01100-00-00VerticalPluggingDate Issued:8/12/2020

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.

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- 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.

	47-099-04.008
WW-4B	1) Date July 14 , 20 20
Rev. 2/01	2)Operator's
	Well No. 808600
	3) API Well No. <u>47-099</u> - <u>01100</u>
STATE OF	WEST VIRGINIA
	IRONMENTAL PROTECTION
OFFICE O	F OIL AND GAS
APPLICATION FOR A PE	RMIT TO PLUG AND ABANDON
4) Well Type: Oil/ Gas X/ Liqu	aid injection/ Waste disposal/
(If "Gas, Production or U	Inderground storage) Deep/ ShallowX
	0.
5) Location: Elevation 274.18 m 890 9	H Watershed Joels Branch of West Fork Twelvepole Creek
District Butler	County Wayne Quadrangle Wayne
6) Well Operator Core Appalachia, LLC	7)Designated Agent Jeff Mast
Address P.O. Box 6070	Address P.O. Box 6070
Charleston, WV 25362	Charleston, WV 25362
8) Oil and Gas Inspector to be notified	9) Plugging Contractor
	Syringging concractor
Name Terry Urban	Name_ R & J Well Services, Inc.

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

SEE ATTACHED SHEET

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JUL 2 2 2020

WV Department of Environmental Protection

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

w) While Work order approved by inspector Hu

Date 7-20-20

PLUGGING PROGNOSIS

808600 West Virginia, Wayne County API# 47-099-01100

Completed by S.T. Updated 11/14/2019

Casing Schedule

13 3/8" csg @ 22' 10 3/4" csg @ 430' 8 5/8" csg @ 1402' 3 ½" csg @ 1515' 3 1/2"x 8 5/8" Hookwall Packer @ 1402' TD 1527'

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Fresh Water: No shows Gas Shows: Big Lime 1520'-1525' Coal: No Shows Elevation: 890'

Completion: Acidized Big Lime

WV Department of Environmental Protection

47-099-04001

- 1. Notify Inspector, Terry Urban 304-549-5915, 48 hours prior to commencing operations.
- 2. Check and record pressures on csg.
- 3. Check TD w/ wireline.
- 4. RIH w/ gun. Perf 3 ½" csg @ 1515', 1465', 1425', 1380', and 1357'.
- 5. TIH w/ tbg to 1520'. Load well as needed w/ 6% bentonite gel. Pump 168' C1A cement plug from 1520'-1352' (Big Lime gas show & 8 5/8" csg st).
- 6. TOOH w/ tbg to 1352' and pump 6% bentonite gel from 1352'-890'. TOOH LD tbg.
- 7. Free Point 3 ½" csg. Cut and Pull. Set 100' C1A cement plug across csg Cut. 50' in/out of cut.
- 8. Free Point 8 5/8" csg. Cut and pull. Set 100' C1A cement plug across csg Cut. 50' in/out of cut. Do not omit any plugs listed below. Perforate as needed
- 9. TIH w/ tbg to 890'. Pump 100' C1A cement plug from 890'-790' (Elevation). ~
- 10. TOOH w/ tbg to 790'. Pump 6% bentonite gel from 790'-480'.
- 11. TIH w/ tbg to 480'. Pump 100' C1A cement plug from 480'-380' (10 ¾" csg st). TOOH LD tbg
- 12. Free Point 10" csg. Cut and pull. 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 380'. Pump 6% bentonite gel from 380'-100'.
- 14. TOOH w/ tbg to 100'. Pump 100' C1A cement plug from 100'-0' (Surface).
- 15. Erect monument with API#, date plugged, and company name.
- 16. Reclaim location and road to WV-DEP specifications.

All plugs will depud if 31/2 CS9 All plugs will depud if 31/2 CS9 Can be publical. Must Conce All pay's Casing conts - Worke & Com 1



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Quadrangle Wayne

Sand

Slate

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Slate & Shells

Sait Sand Slate

Maxon Sand

Red Rock

Slate Little Lime Slate

STATE OF WEST VIRGINIA DEPARTMENT OF MINES OIL AND GAS DIVISION 15

WELL RECORD

Permit No. WAY	X-1100			RECORD		Oil or (Gan Well Gus
and a store	Box 1273;	Charleston :	25, W. Va.	Lieivs and Turing	Used in Drilling	Left in Well	Packers
Farm United 1 Location (waters) Well No DistrictBu	West 8600	Fork of 12-P	ole Creek Eley 890.41	Size 16 133/8		22	Bottom Hole & Kind of Packer Hookwall
The norface of tra	ct is owned in	fee by		10 3/4		430 1402	Size of 8-5/8"x10- 32 x 8-5/8' x 16
Mineral rights are The Chartie Drilling commence Drilling completed	rs Oil Co. nd 7-12-	Address 1518 58 Pitts	Sax Cox Farmers Bank Durgh 22, Pe	3_2		1515	Depth set 1402' 1495' Perf. top Perf. bottom
Date Shot With	From						Perf. top Perf. bottom
Volume 1,16 Rock Pressure Oil WELL ACIDIZED WELL FRACTU	1,000 - Bi 510 0 9-29-58	1bs48 with 1000 ga	_Cu. Ft. _hrn. _bbls., 1st 24 hrs. _llons_acid	CA3ING CEM	ENCOUNTEREI GTINC GTINC	DAT CHES CHES	No. Ft. Date FEETINCHES FEETINCHES FEETINCHES
RESULT AFTER ROCK PRESSUR	TREATMEN	EATMENT				•	4
Fresh Water Formation	Color	Hard or Soft	Тор	Salt Water Rottom	Oil, Gas or Water	Fo	h Remarka
Surface Slate Sand Slate Sand Slate Sand Slate Sand		0011	0 22 60 135 140 155 185 220 265	22 60 135 140 155 185 220 265 200	Gas 1520- Test befo: 1,055 M Acidized 9	re acidiz 9-29-58 w: purs afte:	10 Merc. 2" 1,055 M ed 46/10 Merc. 2" ith 1000 gallons ac r acidized 11/10 Me

300

323 348

363

525 645

6802

710

865

1088

1125

1295

1305

Shut in 9030-58 in 32" tubing

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JUL 2 2 2020

WV Department of Environmental Protection

(over)

220 265

420

525

680

710 755

773 784

840 865 10887

1125

1295

47-099 011008

Formation	Color	Hard or Soft	Top /5 ⁻	Bottom	Oil, Gas or Water	Depth Found	Remai	ica	
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					Date	January 27	• 	19_59_	Į
				APPROVED	12 1	EL GAS COMPA	- 12 -	-, Owner	
				By_	Supt., Civil	(Title)	T. Dent		

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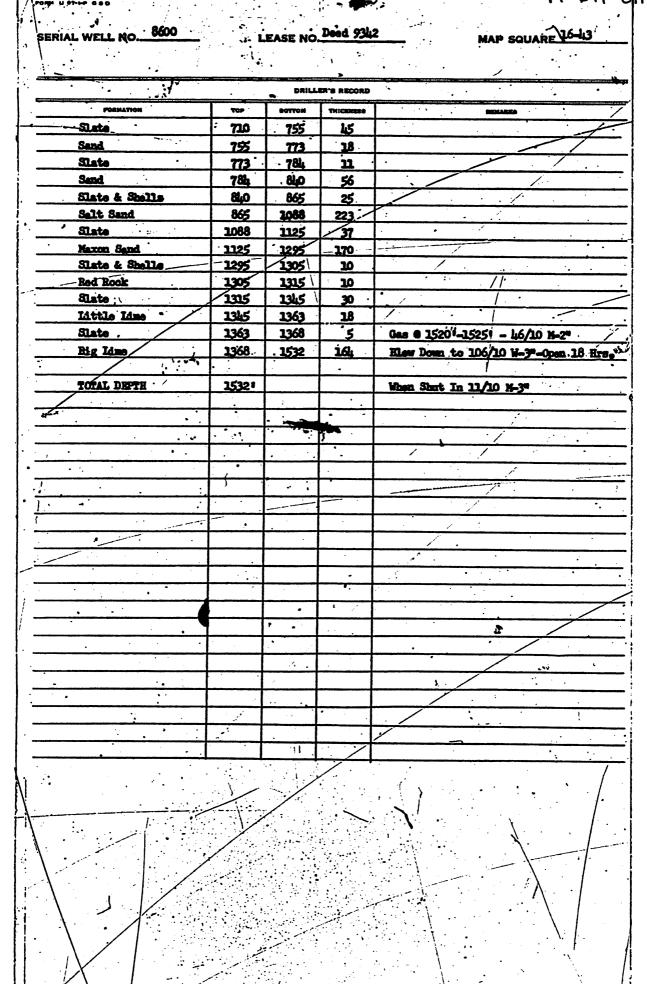
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9NM

		UNITED PU	EL GAS CO	PART		
	a far a star		DOMPANY			· · · · · · · · · · · · · · · · · · ·
ERIAL WELL NO. 8600		LEASE NO	Deed 934	2		MAP SQUARE 16-43
RECORD OF WELL NO. 8600	on the	/ .	CABING AND		•	TEST SEPONE THE AC
.F.G. Co. Fee farm of	Acres	stat	L WEDERT			/10 of Water in
in Batler	istrict	13-3/8*	1.8	:221	221	46 /10 of Mere in 2"
· Wayne	County -	10-3/4"	324	1331	1331	Volume 1,055 MDF Cu
State of: West Virginia		8-5/8"	_ 2	14131	1/131	TEST AFTER CHIER ?AC
Field: Central Divisi		3-1/2"	9#	15231	1523*	/10 of Water in
Rig Sommenced July 12	1958	. 1	•			11. /10 of Mere, in. 3"
Rig Completed July 19,	1958	•	• •			Volume 1,161 MCF Cu
Drilling Commenced July 20,	1958	- 14	· ·		· ·	20 Hours After S
Drilling Completed September	24, 1958	·	•			Rock Pressure 48 Hr. 5100
Drilling to cost	per foot	2				Acid. 9-29-58
Contractor is: E. L. Lusher	<i>.</i>	•	• •		1	LOUU Gal. Acid. Size of Torpedo
Address: Barboursville	W. Va.		•	SHUT IN		Oil Flowedbbls. 1st 24
/ / /			Date	9-30-58		Oil'Pumped
Driller's Name W. C. Hills	\ ·	13	-1/2" in	Tubing	Tubing or Casing	
Gordón Carter	\	: 1	Size of Pac	3-16		Well abandoned and
•	1.			cker Hoold	-11	
• • • • • • • • • • • • • • • • • • • •	1.		Ist. Perl. S	- #	rom	Plugged
Elevation: 890-111	. \		2nd Perf. S	8	rom	
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PCRMATION		BOTTOM	THUCKNESS	· .		
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Slate	135	1 TLO	15	· · F	· ·	1.11
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Slate	220	265	15			63 1 1
Sand	265	300	35	F		
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<u>Sinte</u>	<u>323</u> . 348	348	25		1FFAU	<u> </u>
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Slate	<u> </u>	525	57 105		CCOTC	ERINTERDENT
Sand	525	615	120	- UI	14101 401	
/ •		· 680	35		<u> </u>	¥**
- Slate	645		1 76			/ /.

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47-099-01100 P



-099-01100 P September 29, 58 M. W. Ferrell, Ass't. Seperintendent Mr. Senta No.) on United Fuel Cas Co. Fee Farm Well No 8600 Was stock his date with 1000 Gal, Acid. quarts Number of Shells 1 Length of Shells. Top of Sho Bottom of Shot Sand 1368 Big Lim Top of. feet Sand 1532 Big Line Bottom of feet ne of Sand 0 15321 Total Depth of Well Results: 20 Hrs. after Aoid. 11/10 M-3" - 1,161 MOP ú ۰., 100 Remarks:. đ. 4 ģ × ourn Signed. NOTE-When a well is abot this form must be filled out and sent to the General Superintendent,

& WAY

01100

WW-4A Revised 6-07 1) Date: July 14, 2020

2) Operator's Well Number 808600

3) API Well No.: 47 -

099

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

ner(s) to be served:	5) (a) Coal Operator		
Elmer and Emma Walker	Name		
1219 Joels Branch	Address		
Genoa, West Virginia 25517		And some second	
	(b) Coal Ow	ner(s) with Declaration	
	Name	Southern Region Industrial, Inc.	
	Address	Three Commercial Drive	
		Norfolk, Virginia 23510	
	Name		
	Address		
Terry Urban	(c) Coal Les	see with Declaration	
P.O. Box 1207	Name		
Clendenin, WV 25045	Address		
304-549-5915			
	Elmer and Emma Walker 1219 Joels Branch Genoa, West Virginia 25517 	Elmer and Emma Walker Name 1219 Joels Branch Address Genoa, West Virginia 25517 (b) Coal Ow Name Address Address Name Clendenin, WV 25045 Address	Elmer and Emma Walker Name 1219 Joels Branch Address Genoa, West Virginia 25517 (b) Coal Owner(s) with Declaration Name Southern Region Industrial, Inc. Address Three Commercial Drive Norfolk, Virginia 23510 Name Address Three Commercial Drive Name Address Terry Urban (c) Coal Lessee with Declaration P.O. Box 1207 Name ClendenIn, WV 25045 Address

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	Well Operator By: Its:	Core Appalachia, LLC Jeff Mast Director of Production	RECEIVED Office of Oil and Gas
Phyllis A. Copley 144 Willard Circle	Address	P.O. Box 6070	JUL 1 7 2020
Humicane, WV 25528		Charleston, WV 25362	JOE 1 7 2020
My Commission Expires September 18, 2023. 1	Telephone	304-543-6988	WV Department of
			WV Department of Environmental Protection
Subscribed and sworn before me	e this 14th d	ay of July, 2020	
Subscribed and sworn before me		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>.

808600 47-099-01100P



Office of State Gas JUL 17 ... Environmental Prolect

W	W-9)
(5/	16)	

API Number 47 - _____099-01100 Operator's Well No. 808600

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

Operator Name Core Appalachia, LLC OP Code 494518671
Watershed (HUC 10) Joels Branch of West Fork Twelvepole Creek (050901020103) Quadrangle Wayne
Do you anticipate using more than 5,000 bbls of water to complete the proposed well work? Yes No No Will a pit be used? Yes No
If so, please describe anticipated pit waste: Plugging returns/Cement
Will a synthetic liner be used in the pit? Yes 🗸 No 🔤 If so, what ml.? 20
Proposed Disposal Method For Treated Pit Wastes:
Land Application (if selected provide a completed form WW-9-GPP) Underground Injection (UIC Permit Number) Reuse (at API Number) Off Site Disposal (Supply form WW-9 for disposal location) Other (ExplainAny fluid recovered will be hauled and disposed of properly
Will closed loop systembe used? If so, describe:
Drilling medium anticipated for this well (vertical and horizontal)? Air, freshwater, oil based, etc RECEIVED -If oil based, what type? Synthetic, petroleum, etc.
JUL 2 2 2020
Additives to be used in drilling medium?
internal Protection
-If left in pit and plan to solidify what medium will be used? (cement, lime, sawdust)
Permittee shall provide written notice to the Office of Oil and Gas of any load of drill cuttings or associated waste rejected at any West Virginia solid waste facility. The notice shall be provided within 24 hours of rejection and the permittee shall also disclose 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 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 Company Official (Typed Name) Jeff Mast Company Official Title Director of Production
Subscribed and sworn before me this $147h$ day of $guly$, $20 \rightarrow 0$ Phyllip Q. Copley Notary Public OFFICIAL SEAL
My commission expires September 16, 2023 Notary Public My commission expires September 16, 2023 Notary Public My commission expires September 16, 2023 Notary Public State of West Vision Hurricane, WV 25528 My commission Expires September 16, 202

47-099-01100 P

Operator's Well No. 808600

	1 +/	-	
Proposed Revegetation Treat	ment: Acres Disturbed Tons/acre or to correct	Preveg etation pH _	
	I ons/acre or to correct		
Fertilizer type <u>10</u>	-20-20 or equivalent		
Fertilizer amount_		lbs/acre	
Mulch_2		Fons/acre	
		Seed Mixtures	
Те	emporary	Perma	nent
Seed Type	lbs/acre	Seed Type lbs/acre	
Red Fescue	40	Red Fescue	15
Alsike	5	Alsike Clover	5
Annual Rye	15		
······································			

Plan Approved by:

Comments

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.

RECEIVED Office of Oil and Gas

Photocopied section of involved 7.5' topographic sheet.

JUL	2	2	2020
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WV Department of Environmental Protection

Title: Just	Ruslas	
- 1		

Date: 7-20-20

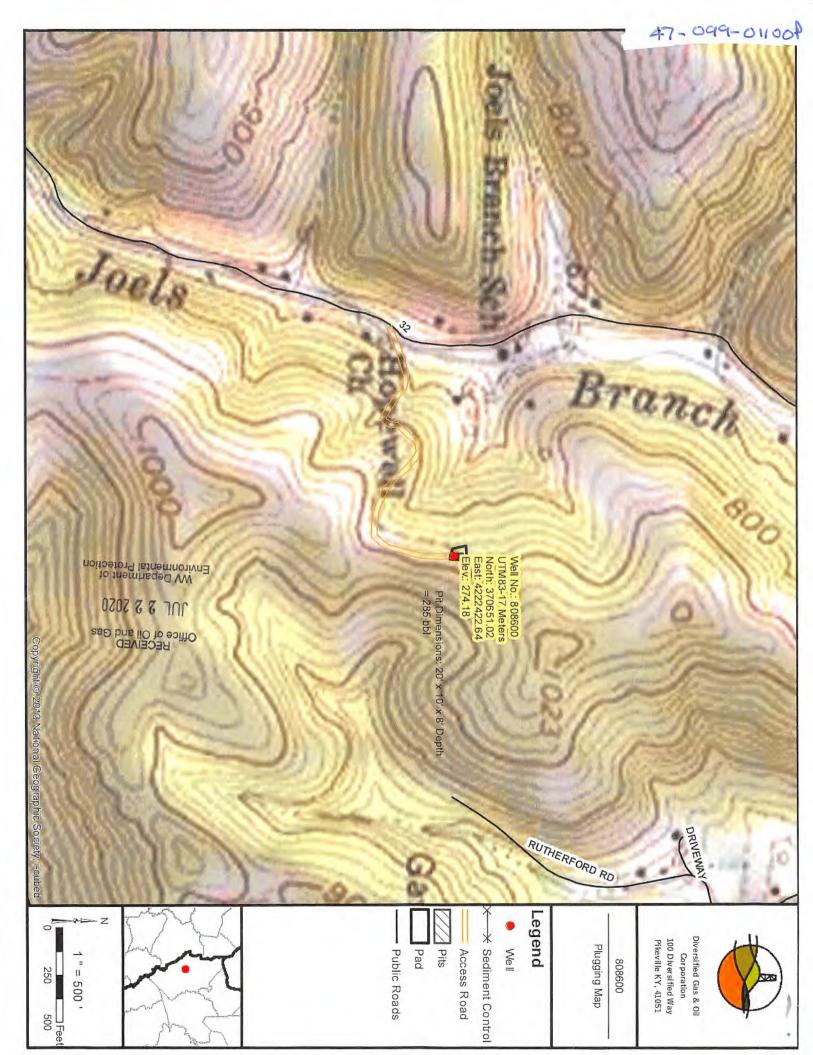
7 Field Reviewed?

_) Yes

U

)No

(



WW-7
8-30-06



West Virginia Department of E	
Office of Oil and	nd Gas
WELL LOCATION	FORM: GPS
_{API:} 47-099-01100	WELL NO.: 808600
FARM NAME: United Fuel Gas Co	. Fee
RESPONSIBLE PARTY NAME: Diversifi	ed Production LLC
	DISTRICT: Butler
QUADRANGLE: Wayne	
SURFACE OWNER: Elmer and Emm	na Walker
ROYALTY OWNER: Diversified Gas	and Oil Corporation
UTM GPS NORTHING: 4,222,422.64	599,3'
UTM GPS EASTING: 370,651.02	GPS ELEVATION: 274.18 m
Contraction of the second	the second se

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
- Data Collection Method: 3.

4.

Survey grade GPS ____: Post Processed Differential _____

Real-Time Differential

Mapping Grade GPS X : Post Processed Differential X

Real-Time Differential

RECEIVED Office of Oil and Gas JUL 1 7 2020 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 WV Department of Environmental Protection belief and shows all the information required by law and the regulations issued and prescribed by the Office of Oil and Gas.

6/30/2020 **Director of Production** Title Signature Date

Core Applalachia, LLC Operator's Well Number: 808600 API: 47-099-01100

PLUGGING PERMIT CHECKLIST

Plugging Perm	it	RECEIVED Office of Oil and Gas
WW-4B		JUL 17 2020
WW-4B	signed by inspector	WV Department of Environmental Protection
WW-4A		
SURFACE OWNER WAIVER or PROOF THAT APPLICATION WAS SENT BY REGISTERED OR CERITFIED MAIL		
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	COAL OWNER/COAL OPERATOR/COAL LESSEE WAIVERS or PROOF THAT APPLICATION WAS SENT	
WW-9 F	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		
TOPOGI	RAPHIC MAP OF WELL, SHOWING PIT IF PIT IS	USED
	IAVE VALID BOND IN OPERATOR'S NAME	
СНЕСК	FOR \$100 IF PIT IS USED	