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 west virginia department of environmental protection
 

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Office of Oil and Gas  
 601 57<sup>th</sup> Street, S.E.  
 Charleston, WV 25304  
 (304) 926-0450  
 fax: (304) 926-0452

Austin Caperton, Cabinet Secretary  
[www.dep.wv.gov](http://www.dep.wv.gov)

Monday, April 22, 2019

WELL WORK PLUGGING PERMIT  
 Vertical Plugging

CORE APPALACHIA OPERATING LLC  
 414 SUMMERS STREET

CHARLESTON, WV 25301


Re: Permit approval for 806826  
 47-099-00806-00-00

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: 806826  
 Farm Name: ALBERT CLARK C/O LULA   
 U.S. WELL NUMBER: 47-099-00806-00-00  
 Vertical Plugging  
 Date Issued: 4/22/2019

H

47-099-00806 P

04/26/2019

## 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

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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 under the terms of that agreement.

OK

1) Date February 27, 2019  
2) Operator's Well No. 806826  
3) API Well No. 47-089 - 00806  
**47-099-00806P**  
**04/26/2019**

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

APPLICATION FOR A PERMIT TO PLUG AND ABANDON

4) Well Type: Oil \_\_\_ / Gas X / Liquid injection \_\_\_ / Waste disposal \_\_\_ /  
(If "Gas, Production \_\_\_ or Underground storage \_\_\_) Deep \_\_\_ / Shallow X

5) Location: Elevation 930.76' Watershed Lick Creek  
District Laurel Hill County Wayne Quadrangle Nestlow

6) Well Operator Core Appalachia Operating, LLC 7) Designated Agent Jessica Greathouse  
Address P.O. Box 6070 Address P.O. Box 6070  
Charleston, WV 25362 Charleston, WV 25362

8) Oil and Gas Inspector to be notified Name Allen Flowers  
Address 165 Grassy Lick Lane  
Liberty, WV 25124  
9) Plugging Contractor Name Precision Drilling (BOSS)  
Address 3978 N Elmdale Road  
Olney, IL 62450

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

SEE ATTACHED SHEET

RECEIVED  
Office of Oil and Gas

MAR 11 2019

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  Date 3-11-2019

## PLUGGING PROCEDURE

806826

WAYNE COUNTY, WEST VIRGINIA

API# 47-099-00806

BY: DMC

DATE: 3/7/19

Current Status

10 3/4" 32.75# @ 33'

8 5/8" 24# @ 383'

7" 23# @ 1470'

5 1/2" 15.5# @ 1639' Pulled

3" 9.2# @ 1640' w/Anchor Pkr 3" x 6 5/8" x 16"

Big Injun: Shot 1588-1608'

Berea/Shale: Shot 2177-3199'

TD @ 3199'

Fresh Water @ 75'

Salt Water @ 896', 1443'

Gas Shows @ 1443', 1468', 1588-1608', 2980'

Oil Show @ 1443'

Elevation 920.53'

**3/12/1998 Swab Rig TD @ 2058'****Objective: Plug and abandon**

- 1) Prepare road and location.
- 2) MIRU service rig and support equipment.
- 3) Blow well down. Check TD.
- 4) Cut 3" tbg at free point and pull.
- 4a) FILL w/ GEL UP TO 2100'.
- 5) Spot 100' cement plug @ 2177'- 2077'.
- 6) TIH and tag cement plug.
- 7) Spot 6% gel from 2077'- 1658'
- 8) Spot 265' cement plug from 1658 - 1393'.
- 9) Spot 6% gel from 1393' - 1000'.
- 10) Cut 7" at free point and pull. 100' CEMENT PLUG ACROSS 7" CUT,
- 11) Spot 150' cement plug from 1000 - 850'.
- 12) Spot 6% gel from 850 - 400'. 200', 150'
- 13) Attempt to pull 8 5/8" csg. If unsuccessful, shoot or rip holes @ 100', 75'.
- 14) Spot 100' cement plug from 400 - 300'.
- 15) Spot 6% gel from 300 - 125'. 170'
- 16) Spot 125' cement plug from 125' - Surface. 170'

AF 3-11-19

17) Pull work string and top off w/cement.

18) Erect permanent monument (30" minimum height and 6" minimum diameter pipe) with API # (1/2" height numbering) and reclaim.

UNITED FUEL GAS COMPANY  
COMPANY

806826

47-099-00806P

Way 806 04/26/2019

MAP SQUARE 24-45

WELL NO. 6826

LEASE NO. Ref: 24689

RECORD OF WELL NO. 6826 on the Co. Min. Tr. #1 farm of 39155.30 Acres Stonewall District Wayne County State of: West Virginia Field: Branchland Rig Commenced By Contractor 19 Rig Completed By Contractor 19 Drilling Commenced October 25, 1951 Drilling Completed January 27, 1952 Drilling to cost \$3.10 & \$3.25 per foot Contractor is: Donahus Brothers Address: Branchland, W. Va.	CASING AND TUBING				TEST BEFORE SHOT	
	SIZE	WEIGHT	USED IN DRILLING	LEFT IN WELL	1st- 30/10 W-2" /10 of Water in _____ inch	2nd- 0/10 W-1" /10 of Merc. in _____ inch
	10-3/4"	32.75#	33'0"	33'0"	1st- 231 MCF	2nd- 0
	8-5/8"	24#	383'9"	383'9"	1st- 216 MCF	2nd- 17 MCF
	7"	23#	1470'10"	1470'10"	1st- 260#	2nd- 505#
	5-1/2"	15.5#	1639'2"	None	1st- 12/10/51	2nd- 1/29/52
	3"	9.20#	1640'6"	1640'6"	1st- 200#	2nd- 650#
					Oil Flowed _____ bbls. 1st 24 hrs	Oil Pumped _____ bbls. 1st 24 hrs
					Shut In Date Feb. 1, 1952	
					3" in. Tubing or 2" casing	
					Size of Packer 3" X 6-5/8" X 16"	Well abandoned and
					Kind of Packer Anchor	Plugged _____ 19 _____
					1st Perf. Set _____ from _____	
					2nd Perf. Set _____ from _____	
Elevation: 920.53						

DRILLER'S RECORD

FORMATION	TOP	BOTTOM	THICKNESS	REMARKS
Soil	0	30	30	
Sand	30	157	127	3 bailers water per hour at 75'
Slate	157	175	18	
Sand	175	210	35	
Coal	210	214	4	
Slate	214	244	30	
Sand	244	268	24	
Slate	268	320	52	
Sand	320	475	155	
Slate	475	534	59	
Sand	534	618	84	
slate & Shells	618	822	204	
1st Salt Sand	822	906	84	Hole full of water at 896'
Slate	906	907	1	
2nd Salt Sand	907	920	13	
Slate	920	971	51	
3rd Salt Sand	971	1150	179	

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Office of Oil and Gas

FEB 22 2019

WV Department of  
Environmental Protection

APPROVED

*M. H. [Signature]*

806820 47-099-00806P

SERIAL WELL NO. 6826

LEASE NO. Ref: 24689

MAP SQUARE 24-45  
04/26/2019

*Way-806*

DRILLER'S RECORD

FORMATION	TOP	BOTTOM	THICKNESS	REMARKS
slate	1150	1155	5	
Sand	1155	1204	49	
Slate	1204	1231	27	
Red Rock	1231	1237	6	
Slate	1237	1284	47	
Red Rock	1284	1290	6	
Slate	1290	1324	34	
Little Lime	1324	1348	24	
Big Lime	1348	1540	192	Show of gas at 1443' - also show of <del>DE</del>
Keener Sand	1540	1550	10	1 bailer of water at 1443'
Red Rock	1550	1588	38	Gas 3/10 W-1" at 1468'
Big Injun	1588	1608	20	Gas 7/10 W-2" in Big <del>LIME</del> Injun
Slate & Shells	1608	1626	18	Gas inc. to 30/10 W-2"
Lime Shells	1626	1680	54	
Slate & Shells	1680	2120	440	
Red Sand	2120	2135	<del>X</del> 15	
Berea Sand	2135	2215	80	
Brown Shale	2215	2275	60	
White Slate	2275	2575	300	
Brown Shale	2575	3190	615	Show of gas at 2980'
White Slate	3190	3199	9	not enough gas to gauge in shale when drilling completed
TOTAL DEPTH	3199'			

APPROVED

47-099-00806P

WW-4A  
Revised 6-07

1) Date: February 27, 2019 **04/26/2019**  
2) Operator's Well Number  
806826

3) API Well No.: 47 - 47-099 - 00806

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

4) Surface Owner(s) to be served:	5) (a) Coal Operator
(a) Name <u>Albert Clark, C/O Lula Yeager</u>	Name <u>Lexington Coal Company, Attn: Dave Decker</u>
Address <u>P.O. Box 494</u>	Address <u>123 Long Shoals Branch</u>
<u>Hamlin, WV 25523</u>	<u>Alum Creek, WV 25003</u>
(b) Name _____	(b) Coal Owner(s) with Declaration
Address _____	Name <u>Southern Regional Industrial, Inc.</u>
	Address <u>Three Commercial Place</u>
	<u>Norfolk, VA 23510</u>
(c) Name _____	Name _____
Address _____	Address _____
6) Inspector <u>Allen Flowers</u>	(c) Coal Lessee with Declaration
Address <u>165 Grassy Lick Lane</u>	Name <u>Lexington Coal Company, Attn: Dave Decker</u>
<u>Liberty, WV 25124</u>	Address <u>123 Long Shoals Branch</u>
Telephone <u>304-552-8308</u>	<u>Alum Creek, WV 25003</u>

**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.



Well Operator Core Appalachia Operating, LLC  
 By: [Signature] Jessica Greathouse  
 Its: Manager - EHS & Administration Services  
 Address P.O. Box 6070  
Charleston, WV 25362  
 Telephone 304-353-5240

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Office of Oil and Gas  
FEB 22 2019

Subscribed and sworn before me this 28th day of February 2019  
Phyllis A. Copley Notary Public  
 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 [depprivacyoffier@wv.gov](mailto:depprivacyoffier@wv.gov).



**SURFACE OWNER WAIVER**

04/26/2019

Operator's Well  
Number

806826

**INSTRUCTIONS TO SURFACE OWNERS NAMED ON PAGE WW4-A**

The well operator named on page WW-4A is applying for a permit from the State to plug and abandon a well. (Note: If the surface tract is owned by more than three persons, then these materials were served on you because your name appeared on the Sheriff's tax ticket on the land or because you actually occupy the surface tract. In either case, you may be the only owner who will actually receive these materials.) See Chapter 22 of the West Virginia Code. Well work permits are valid for 24 months. If you do not own any interest in the surface tract, please forward these materials to the true owner immediately if you know who it is. Also, please notify the well operator and the Office of Oil and Gas.

**NOTE: YOU ARE NOT REQUIRED TO FILE ANY COMMENT.**

**WHERE TO FILE COMMENTS AND OBTAIN ADDITIONAL INFORMATION:**

Chief, Office of Oil and Gas  
Department of Environmental Protection  
601 57<sup>th</sup> St. SE  
Charleston, WV 25304  
(304) 926-0450

**Time Limits and methods for filing comments.** The law requires these materials to be served on or before the date the operator files his Application. You have **FIVE (5) DAYS** after the filing date to file your comments. Comments must be filed in person or received in the mail by the Chief's office by the time stated above. You may call the Chief's office to be sure of the date. Check with your postmaster to ensure adequate delivery time or to arrange special expedited handling. If you have been contacted by the well operator and you have signed a "voluntary statement of no objection" to the planned work described in these materials, then the permit may be issued at any time.

**Comments must be in writing.** Your comments must include your name, address and telephone number, the well operator's name and well number and the approximate location of the proposed well site including district and county from the application. You may add other documents, such as sketches, maps or photographs to support your comments.

The Chief has the power to deny or condition a well work permit based on comments on the following grounds:

- 1) The proposed well work will constitute a hazard to the safety of persons.
- 2) The soil erosion and sediment control plan is not adequate or effective;
- 3) Damage would occur to publicly owned lands or resources;
- 4) The proposed well work fails to protect fresh water sources or supplies;
- 5) The applicant has committed a substantial violation of a previous permit or a substantial violation of one or more of the rules promulgated under Chapter 22, and has failed to abate or seek review of the violation..."

If you want a copy of the permit as it is issued or a copy of the order denying the permit, you should request a copy from the Chief.

**VOLUNTARY STATEMENT OF NO OBJECTION**

I hereby state that I have read the instructions to surface owners and that I have received copies of a Notice and Application For A Permit To Plug And Abandon on Forms WW-4A and WW-4B, and a survey plat.

I further state that I have no objection to the planned work described in these materials, and I have no objection to a permit being issued on those materials.

FOR EXECUTION BY A NATURAL PERSON  
ETC.

FOR EXECUTION BY A CORPORATION,

Julia Yeager  
Signature

Date mar 7 2019 Name  
By  
Its

Signature

Date

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MAR 14 2019  
Office of Oil and Gas  
WV Department of  
Environmental Protection

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

Operator Name Core Appalachia Operating, LLC OP Code 494518671

Watershed (HUC 10) Lick Creek Quadrangle Nestlow

Do you anticipate using more than 5,000 bbls of water to complete the proposed well work? Yes  No

Will a pit be used? Yes  No

If so, please describe anticipated pit waste: Plugging returns/Cement - Will utilize above ground tanks

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 (Explain Any fluid recovered will be hauled to a Core tank battery and disposed of properly)

Will closed loop system be 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 offsite, etc. \_\_\_\_\_

-If left in pit and plan to solidify what medium will be used? (cement, lime, sawdust) \_\_\_\_\_

-Landfill or offsite name/permit number? \_\_\_\_\_

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.

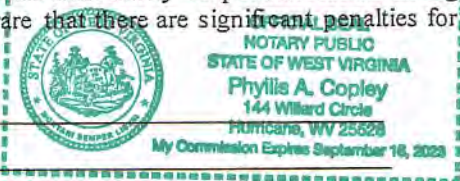
I certify that I understand and agree to the terms and conditions of the GENERAL WATER POLLUTION PERMIT issued on April 1, 2016, by the Office of Oil and Gas of the West Virginia Department of Environmental Protection. I understand that the provisions of the permit are enforceable by law. Violations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

Company Official Signature [Signature]

Company Official (Typed Name) Jessica Greathouse

Company Official Title Manager - EHS and Administrative Services



Subscribed and sworn before me this 28th day of February, 2019

Phyllis A. Copley Notary Public

My commission expires September 16, 2023

Proposed Revegetation Treatment: Acres Disturbed 1 +/- Prevegetation pH \_\_\_\_\_

Lime 3 Tons/acre or to correct to pH 6.5

Fertilizer type 10-20-20 or equivalent

Fertilizer amount \_\_\_\_\_ lbs/acre

Mulch 2 Tons/acre

Seed Mixtures

**Temporary**

**Permanent**

Seed Type	lbs/acre
Red Fescue	40
Alsike	5
Annual Rye	15

Seed Type	lbs/acre
Red Fescue	15
Alsike Clover	5

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: 

Comments: \_\_\_\_\_

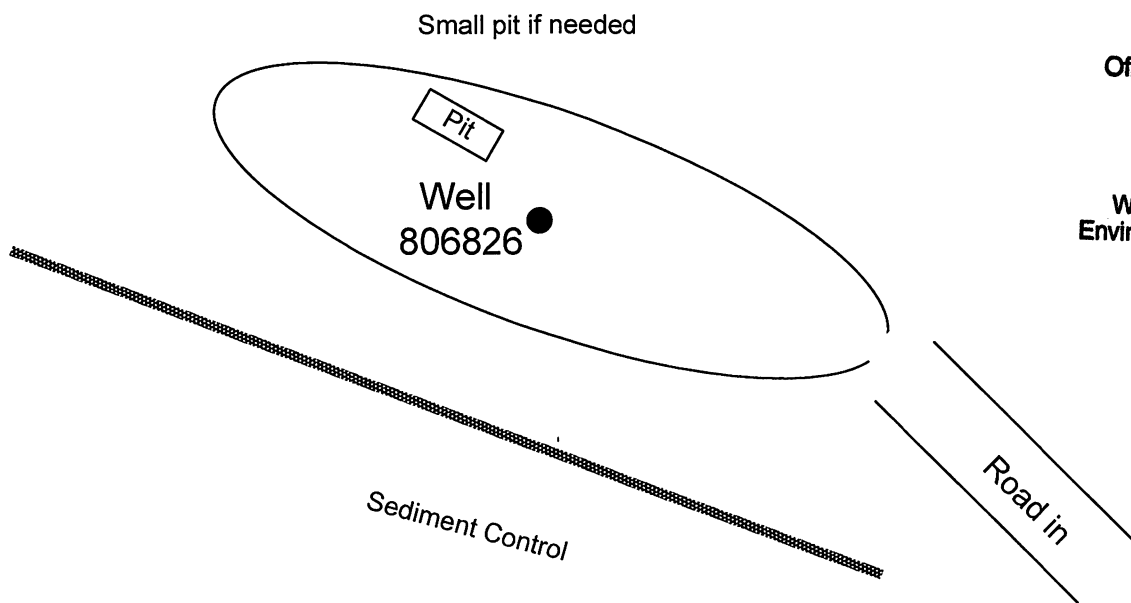
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

Title: INSPECT Date: 3-11-2019

Field Reviewed? (  ) Yes (  ) No

Diagram of Well 806826  
API 47-099-00806  
Field Office – Kermit  
County - Wayne

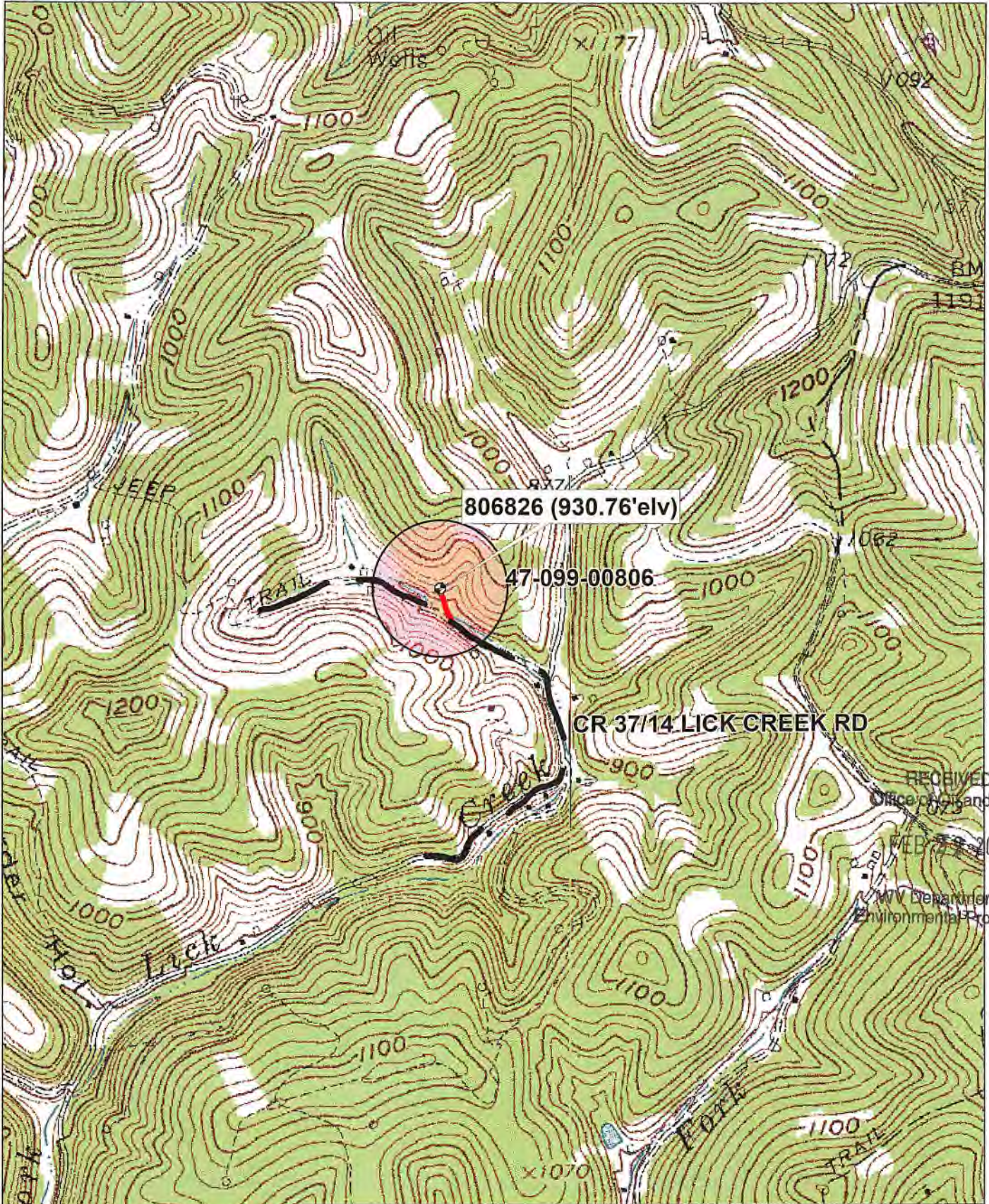
Surface Owner:  
Albert Clark c/o  
Lula Yeager



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WV Department of  
Environmental Protection

Note: No Land Application if pit is used

# Site Plan



806826 (930.76' elv)

47-099-00806

CR 37/14 LICK CREEK RD

RECEIVED  
Office of Land Gas

FEB 27 2019

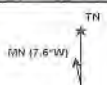
TN Department of  
Environmental Protection

# WELL 806826 P&A TOPO MAP

Data use subject to license.

© DeLorme. XMap® 8.

www.delorme.com



Scale 1 : 12,000



1" = 227.0 ft

Data Zoom 14-1

WW-7  
8-30-06



West Virginia Department of Environmental Protection  
Office of Oil and Gas  
**WELL LOCATION FORM: GPS**

API: 47-099-00806 WELL NO.: 806826

FARM NAME: TCO MIN TR 1

RESPONSIBLE PARTY NAME: Core Appalachia Operating, LLC

COUNTY: Wayne DISTRICT: ~~Laurel Hill~~ STONEWALL

QUADRANGLE: Nestlow

SURFACE OWNER: Albert Clark c/o Lula Yeager

ROYALTY OWNER: Core Appalachia Production, LLC

UTM GPS NORTHING: 4222828.59m

UTM GPS EASTING: 386536.41m GPS ELEVATION: 283.70m [930.76']

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:

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

Survey grade GPS  : Post Processed Differential   
Real-Time Differential

Mapping Grade GPS  : Post Processed Differential   
Real-Time Differential

- 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.

*[Signature]* EHS Specialist 2/27/19  
Signature Title Date

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