



 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

Monday, April 8, 2019

WELL WORK PLUGGING PERMIT
 Vertical Plugging

CORE APPALACHIA OPERATING LLC
 414 SUMMERS STREET

CHARLESTON, WV 25301

Re: Permit approval for 806743
 47-099-00780-00-00

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: 806743
 Farm Name: ALPHA GEN PERRY, ETAL
 U.S. WELL NUMBER: 47-099-00780-00-00
 Vertical Plugging
 Date Issued: 4/8/2019

I

47-099-00780P

04/12/2019

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

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.

1) Date February 27, 2019
2) Operator's Well No. 806743
3) API Well No. 47-099-00780

04/12/2019

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 1138.6' Watershed West Fork of Twelvepole
District Lincoln County Wayne Quadrangle Wilsondale

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 9) Plugging Contractor
Name Allen Flowers Name Precision Drilling (BOSS)
Address 165 Grassy Lick Lane Address 3978 N Elmdale Road
Liberty, WV 25124 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
806743
WAYNE COUNTY, WEST VIRGINIA
API# 47-099-00780

BY: DMC
DATE: 3/7/2019

Current Status

10 3/4" 32.75# @ 405'
7" 20# @ 1697' w/6 5/8 x 8 1/4 x 10 bottom hole Pkr @ 1677'
Shale: Shot 2525'-3445'
TD @ 3445'
Fresh Water @ 152'
Salt Water @ 1272'
Coal @ 121-123', 270-274', 326-328'
Gas Show @ 1804'
Oil Show @ 1820'
Elevation 1141.13'
2/10/2009 Swab FL @ 592', TD @ 2372'
3/19/2015 Echometer FL @ 689'
6/5/2015 Slickline w/1.5" x 18" sinker bar - Tight Spot @ 748', TD @ 1869'

Objective: Plug and abandon

- 1) Prepare road and location.
- 2) MIRU service rig and support equipment.
- 3) Blow well down. Check TD.
- 4) Spot 100' cement plug @ TD, ~ 2372 - 2272'. GEL HOLE TO 2000'
- 5) TIH and tag cement plug.
- 6) Spot 6% gel from 2272 - 1870'.
- 7) Spot 220' cement plug from 1870 - 1650'.
- 8) Spot 6% gel from 1650 - 1191'.
- 9) Cut 7" at free point and pull. 100' CEMENT PLUG ACROSS CUT
- 10) Spot 100' cement plug from 1191 - 1091'.
- 11) Spot 6% gel from 1091 - 450'.
- 12) Attempt to pull 10" csg. If unsuccessful, shoot or rip holes @ 270', 150'.
- 13) Spot 100' cement plug from 450 - 350'.
- 14) Spot 6% gel from 350 - 320'.
- 15) Spot 320' cement plug from 320' - Surface.

47-099-00780P
04/12/2019

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

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

AF 3-11-19

United Fuel Gas Company
COMPANY

Wm 780 806743
47099-007802

WELL NO. 6743 LEASE NO. Pt. 35724 MAP SQUARE 22-33

RECORD OF WELL NO. <u>6743</u> on the	CASING AND TUBING				TEST BEFORE SHOT
North Fork Coal <u>85382.65</u> Acres	SIZE	WEIGHT	USED IN DRILLING	LEFT IN WELL	6 /10 of Water in <u>1</u> in
in <u>Lincoln</u> District	<u>10-3/4"</u>	<u>32.75#</u>	<u>405'0"</u>	<u>405'0"</u>	/10 of Merc. in _____ in
<u>Wayne</u> County	<u>7"</u>	<u>20#</u>	<u>1697'11"</u>	<u>1697'11"</u>	Volume <u>25.82 MCF</u> <u>19</u> Cu.
State of: <u>West Virginia</u>					TEST AFTER SHOT
Field: <u>Branchland</u>					5 /10 of Water in <u>2</u> in
Rig Commenced By Contractor <u>19</u>					/10 of Merc. in _____ in
Rig Completed By Contractor <u>19</u>					Volume <u>94 MCF</u> Cu.
Drilling Commenced <u>July 2, 1951</u>					<u>20 hrs.</u> Hours After Shot
Drilling Completed <u>Sept. 29, 1951</u>					Rock Pressure <u>292 MCF</u>
Drilling to cost <u>\$3.10</u> per foot					Date Shot <u>10/1/51</u>
Contractor is: <u>Donahue Bros.</u>					Size of Torpedo <u>6375#- G</u>
Address: <u>Branchland, W. Va.</u>	SHUT IN				Oil Flowed _____ bbls. 1st 24 h
	Date <u>10/2/51</u>				Oil Pumped _____ bbls. 1st 24 h
Driller's Name <u>B. B. Swisher</u>	<u>7</u> in. Casing				
<u>Homer Six</u>	Size of Packer <u>6-5/8" X 8-1/4"</u>				Well abandoned and
	Kind of Packer <u>Bottom Hole</u>				Plugged _____ 19
	1st Perf. Set _____ from _____				
	2nd Perf. Set _____ from _____				
Elevation: <u>1141.13</u>					

DRILLER'S RECORD

FORMATION	TOP	BOTTOM	THICKNESS	REMARKS
Surface	0	16	16	
Sand	16	121	105	
Coal	121	123	2	
Slate	123	140	17	
Sand	140	236	96	2 Bailers water an hour at 152'
Slate	236	270	34	
Coal	270	274	4	
Slate	274	290	16	
Sand	290	326	36	
Coal	326	328	2	
Slate	328	336	8	
Sand	336	510	174	10-3/4" Casing - 405'0" in Well
Slate	510	595	85	7" Casing in Well - 1697'11"
Sand	595	680	85	6-5/8" X 8-1/4" X 10" B. H. Packer set at 1677'
Slate	680	720	40	
Sand	720	728	8	
Slate & Shells	728	856	128	

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Office of Oil and Gas

FEB 22 2019

WV Department of
Environmental Protection

M. H. Chapman

SERIAL WELL NO. 6743

LEASE NO. Pt. 35724

MAP SQUARE 22-33

Way 780

*806743
47-099-007808*

DRILLER'S RECORD

FORMATION	TOP	BOTTOM	THICKNESS	REMARKS
Sand	856	898	42	
Slate & Shells	898	938	40	04/12/2019
Sand	938	972	34	
Slate & Shells	972	1116	144	
Salt Sand	1116	1210	94	
Slate & Shells	1210	1268	58	
Salt Sand	1268	1372	104	Salt Water at 1272
Slate & Shells	1372	1438	66	Reduced Hole at 1412'
Sand	1438	1468	30	
Slate & Shells	1468	1590	122	
Red Rock	1590	1604	14	
Slate	1604	1637	33	
Little Lime	1637	1662	25	
Big Lime	1662	1850	188	Gas at 1804' 5/10 Water in 2"
Slate & Shells	1850	1876	26	Show of Oil at 1820'
Red Rock	1876	1885	9	
Injun Sand	1885	1924	39	
Slate & Shells	1924	2410	486	
Coffee Shale	2410	2442	32	
Berea Sand	2442	2517	75	
Brown Shale	2517	2593	76	
White Slate	2593	2800	207	
Brown Shale	2800	2860	60	
White Slate	2860	3158	298	
Brown Shale	3158	3425	267	6/10 Water in 1" when Drilling
Slate	3425	3445	30 20	Completed.
				20' Cavings in hole after shot
Total Depth	3445	3445'		

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Office of Oil and Gas
FEB 22 2019

WV Department of
Environmental Protection

APPROVED

WW-4A
Revised 6-07

1) Date: February 27, 2019
2) Operator's Well Number
806743

3) API Well No.: 47 - 47-099 - 00780

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

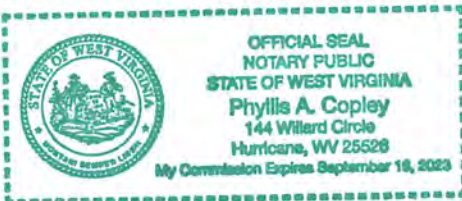
4) Surface Owner(s) to be served:	5) (a) Coal Operator
(a) Name <u>Alpha Gene and Clarence Ray Perry</u>	Name <u>None</u>
Address <u>4217 Bell Road</u>	Address _____
<u>Seville, Ohio 44273</u>	_____
(b) Name _____	(b) Coal Owner(s) with Declaration
Address _____	Name <u>Southern Regional Industrial, Inc.</u>
_____	Address <u>Three Commercial Place</u>
_____	<u>Norfolk, VA 25310</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>Argus Energy, LLC</u>
<u>Liberty, WV 25124</u>	Address <u>81 Enterprise Drive</u>
Telephone <u>304-552-8308</u>	<u>Debord, KY 41214</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: Jessica Greathouse

Its: Manager - EHS & Administration Services

Address P.O. Box 6070

Charleston, WV 25362

Telephone 304-353-5240

Subscribed and sworn before me this 28th day of February 2019
Phyllis A. Copley Notary Public

My Commission Expires September 16, 2023

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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 Environmental Protection 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 depprivacyofficer@wv.gov.

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) West Fork of Twelvepole Quadrangle Wilsondale

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) _____

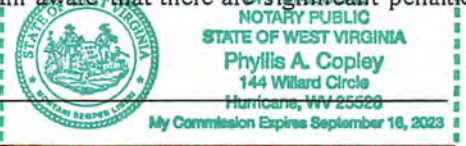
-Landfill or offsite name/permit number? _____

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

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WV Department of Environmental Protection

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.

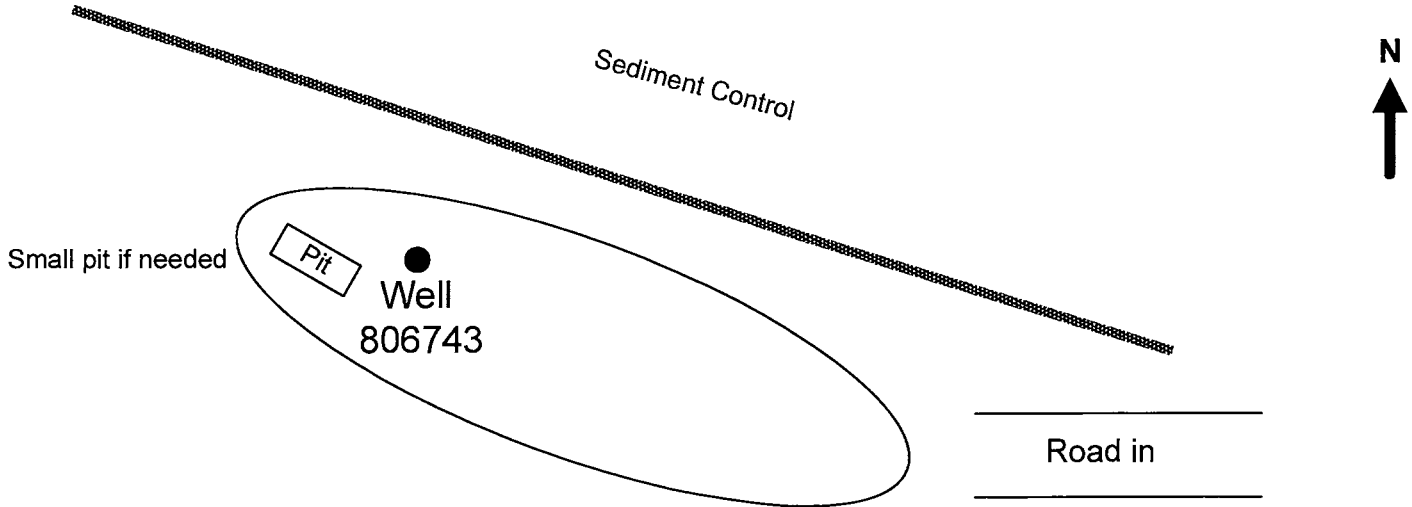
Plan Approved by: 

Comments: _____

Title: Inspector Date: 3-11-19

Field Reviewed? (X) Yes () No

Diagram of Well 806743
API 47-099-00780
Field Office – Kermit
County - Wayne



Surface Owner:
Alpha Gene Perry

Note: No Land Application if pit is used

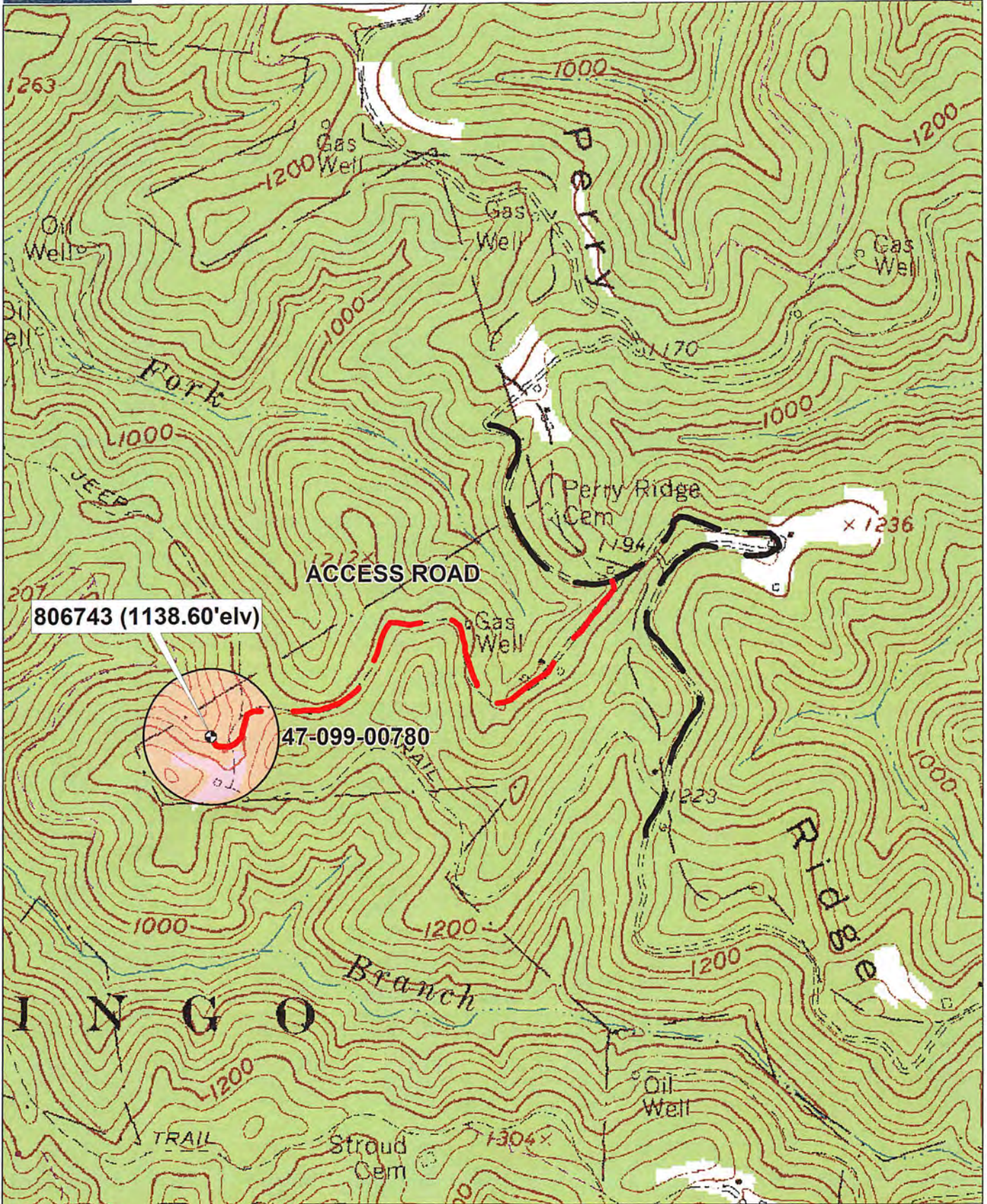
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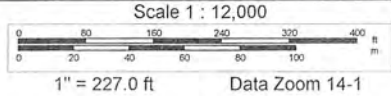
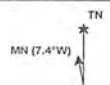
Site Plan

DE LORME



WELL 806743 P&A TOPO MAP

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 www.delorme.com



WW-7
8-30-06



West Virginia Department of Environmental Protection
Office of Oil and Gas

WELL LOCATION FORM: GPS

API: 47-099-00780 WELL NO.: 806743

FARM NAME: North Fork Coal

RESPONSIBLE PARTY NAME: Core Appalachia Operating, LLC

COUNTY: Wayne DISTRICT: Lincoln

QUADRANGLE: Wilsondale

SURFACE OWNER: Alpha Gene Perry, etal

ROYALTY OWNER: Core Appalachia Production, LLC

UTM GPS NORTHING: 4204242.46m

UTM GPS EASTING: 382240.95m GPS ELEVATION: 347.05m [1138.60']

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
- 3. Data Collection Method:

Survey grade GPS : Post Processed Differential

Real-Time Differential

Mapping Grade GPS : Post Processed Differential

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.

[Signature]
Signature

EHS Specialist
Title

2/27/19
Date

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WV Department of
Environmental Protection