



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

Friday, April 17, 2020
WELL WORK PLUGGING PERMIT
Vertical Plugging

CORE APPALACHIA OPERATING LLC
101 MCQUISTON DRIVE

JACKSON CENTER, PA 16133

Re: Permit approval for 5665
47-099-00387-00-00

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: 5665
Farm Name: HUNT DEV & GAS MIN.
U.S. WELL NUMBER: 47-099-00387-00-00
Vertical Plugging
Date Issued: 4/17/2020

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.
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.

JACOB, 4/17/2020
THIS IS READY
TO ISSUE.
JEFF

WW-4B
Rev. 2/01

1) Date February 10, 2020
2) Operator's
Well No. 805665
3) API Well No. 47-099 - 00387

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 307.94 m Watershed Right Fork of Little Lynn Creek
District Stonewall 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 9) Plugging Contractor
Name Jeffery L. Smith Name R & J Well Services, Inc.
Address 5349 Karen Circle, Apartment 2101 Address P.O. Box 40
Cross Lanes, WV 25313 Hueysville, KY 41640-0040
- 10) Work Order: The work order for the manner of plugging this well is as follows:

SEE ATTACHED SHEET

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

Work order approved by inspector Jeffrey Smith Date 3-17-20

PLUGGING PROGNOSIS

805665

West Virginia, Wayne County

API# 47-099-00387

Completed by S.T.

Updated 11/14/2019

Casing Schedule

10" csg @ 33'

8 1/4" csg @ 313'

6 5/8" csg @ 1437'

3" csg @ 1547' Hookwall Packer @ 1547'

1 1/2" tbg 2939'

1 1/2" Fluid Level 9/18/18 @ 600'

SHOT 2706' - 3186'

Completion: Shot**Fresh Water:** No shows**Gas Shows:** Big Lime 1500, Berea 2505, Brown Shale 2865'-3168'**Coal:** No shows**Elevation:** 930'

1. Notify Inspector, Jeffery Smith @ 681-313-6743, 48 hours prior to commencing operations.
2. Check and record pressures on csg.
3. Check TD w/ wireline
4. TOOH LD 1 1/2" tbg
5. TIH w/ tbg to 2865'. Load well as needed w/ 6% bentonite gel. Pump 100' C1A cement plug from **2865'-2765' (Shale Gas Show)**.
6. TOOH w/ tbg to 2765'. Pump 6% bentonite gel from **2765'- 2505'**.
7. TOOH w/ tbg to 2505'. Pump 100' C1A cement plug from **2505'- 2405' (Berea Gas Show)** WOC, TAG CEMENT, ADD IF NEEDED
8. TOOH w/ tbg to 2405'. Pump 6% bentonite gel from **2405'-1597'**. TOOH LD Tbg
9. Free Point 3 1/2" csg. Cut and Pull. Set 100' C1A cement plug across csg Cut. 50' in/out of cut.
10. TIH w/ tbg to 1597'. Pump 210' C1A cement plug from **1597'-1387' (Lime Gas Show, 3 1/2" cut, 6 5/8" csg st)**.
11. TOOH w/ tbg to 1387'. Pump 6% bentonite gel **1387'-930'**. TOOH LD Tbg
12. Free Point 6 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.
13. TIH w/ tbg to 930'. Pump 100' C1A cement plug from **930'-830' (Elevation)**.
14. TOOH w/tbg to 830'. Pump 6% bentonite gel **830'-363'**.
15. TOOH w/ tbg to 363'. Pump 100' C1A cement plug from **363'-263' (8 1/4" csg st)**.
16. TOOH w/ tbg to 263'. Pump 6% bentonite gel from **263'-100'**. TOOH LD tbg
- ★ 17. Free Point 8 1/4" 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.
18. TIH w/ tbg to 100'. Pump 100' C1A cement plug from **100'-surface (Surface)**.
19. Erect monument with API#, date plugged, and company name.
20. Reclaim location and road to WV-DEP specifications.

★ IF UNABLE TO CUT & PULL 8 1/4" CASING.
PERFORATE 8 1/4" AND FILL W/ CLASS A
CEMENT TO SURFACE.

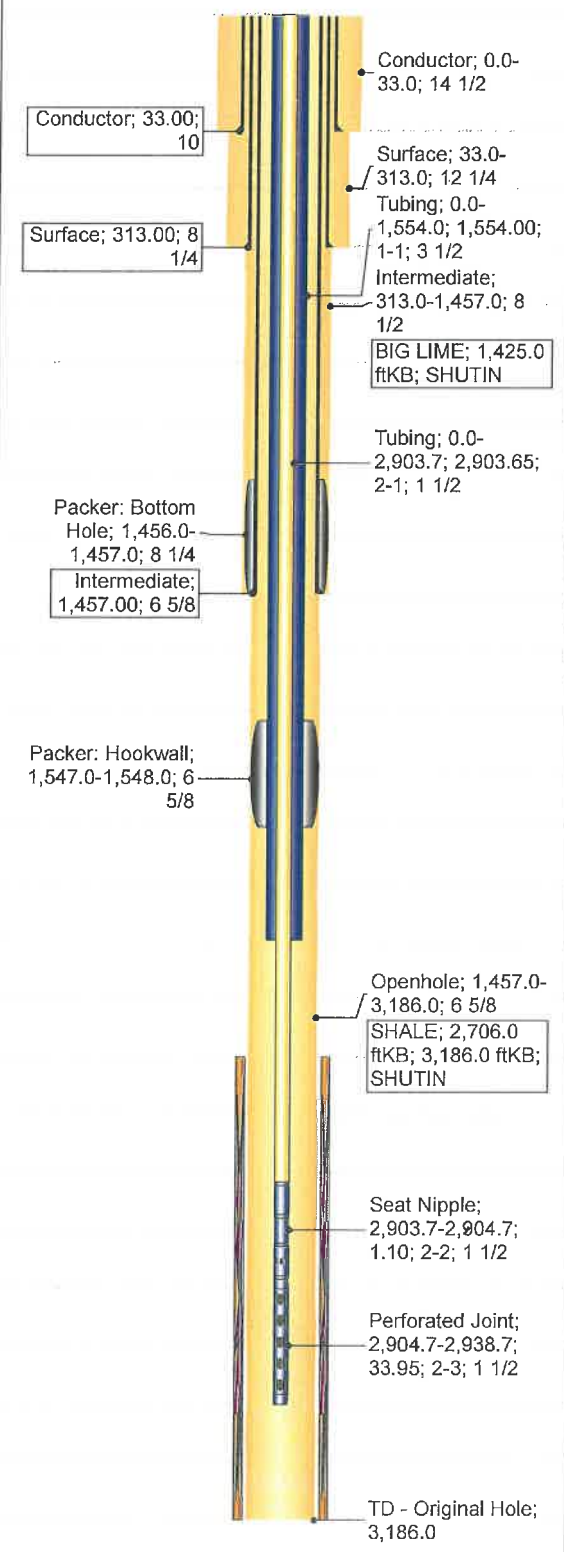
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FEB 25 2020

WV Department of
Environmental Protection

Well Header		API/UWI	Property Number
Well Name HUNTINGTON DEV & GAS MIN 62		4709900387	805665

VERTICAL - Original Hole, 10/21/2019 7:57:51 AM
Vertical schematic (actual)



Casing Strings					
Csg Des	OD (in)	Wt/Len (lb/ft)	Grade	Top Thread	Set Depth (ftKB)
Conductor	10	32.75			33.0
Surface	8 1/4	24.00			313.0
Intermediate	6 5/8	20.00			1,457.0

Cement Stages				
Description	Type	String	Top (ftKB)	Pump Start Date

Zones				
Zone Name	Top (ftKB)	Btm (ftKB)	First Production Date	Abandon Date
BIG LIME	1,425.0		11/15/1945	
SHALE	2,706.0	3,186.0	11/15/1945	

Perforations				
Date	Top Depth (ftKB)	Bottom Depth (ftKB)	Linked Zone	Current Status

Stimulation Intervals					
Zone Name	Current Status	Type	Start Date	Top (ftKB)	Btm (ftKB)
SHALE	SHUTIN	Nitro / Gelatin	11/14/1945	2,706.0	3,186.0

Tubing Strings			
Tubing Description	Run Date	String Length (ft)	Set Depth (ftKB)
Tubing - Production	7/12/1945	1,554.00	1,554.0

Item Des	Jts	Make	Model	OD (in)	Wt (lb/ft)	Grade	Len (ft)
Tubing				3 1/2	7.70		1,554.00

Tubing Strings			
Tubing Description	Run Date	String Length (ft)	Set Depth (ftKB)
Tubing - Production	8/17/1992	2,938.70	2,938.7

Item Des	Jts	Make	Model	OD (in)	Wt (lb/ft)	Grade	Len (ft)
Tubing			Integral Joint	1 1/2	2.75		2,903.65

Seat Nipple				1 1/2			1.10
Perforated Joint				1 1/2			33.95

Other In Hole					
Des	OD (in)	Top (ftKB)	Btm (ftKB)	Run Date	Pull Date
Packer: Bottom Hole	8 1/4	1,456.0	1,457.0	7/12/1945	
Packer: Hookwall	6 5/8	1,547.0	1,548.0	11/13/1945	

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 Department of Environmental Protection

U-5665

099-387

Huntington Dev. & Gas Co., Min.
 United Fuel Gas Company
 Stonewall District, Wayne County, W. Va.
 Map Square 22-47
 Commenced 7-12-45
 Completed 11-7-45
 Elevation

Size	CASING Weight	Point
10"	32.75#	33'
8-1/4"	24#	313'
6-5/8"	20#	1437'
3" tubing		1547'

PACKER: 3"x6-5/8"x16" hookwall packer set @ 1547'

CONTRACTOR: Bright & Hicks
 DRILLERS: H. H. Edwards
 A. W. Nida
 W. E. Angus
 Nids Handley

Surface	0	32
Sand	32	37
Mud	37	90
Sand	90	120
Slate	120	155
Sand	155	165
Slate	165	210
Sand	210	285
Slate	285	300
Sand	300	650
Slate	650	918
Gas Sand	918	925
Salt Sand	925	1095
Mud	1095	1135
Salt Sand	1135	1230
Mud	1230	1250
Red Rock	1250	1270
Mud	1270	1370
Little Lime	1370	1400
Pencil Cave	1400	1405
Big Lime	1405	1422
Break	1422	1425
Big Lime	1425	1570
Black Lime	1570	1575
Injun Sand	1575	1656
Slate	1656	1663
Shells	1663	1698
Slate & shells	1698	2156
Brown Shale	2156	2167
Berea Sand	2167	2220
Slate & shells	2220	2720
Slate, dark	2720	2790
Slate	2790	2865
Brown Shale	2865	3172
White Slate	3172	3186
Total Depth	3186'	S.L.M.

to 1501
 Big Line gas 1500' 18/10 Merc 6-5/8" 20# 6,039 M

Turned Big Lime gas into line and let feed from 8-16-45 to 9-13-45.

Gas test 2505 22/10 W 2" 198 M

Shale gas 2865 30/10 W 2" 231 M
 " " 3165 32/10 W 2" 239 M
 Test 3167 24/10 W 2" 207 M
 Shale gas 3168 32/10 W 2" 239 M

Test before shot 32/10 W 2" 239 M
 Shot 11-12-45 with 3100# Gel. 2706-3186
 Test when tubed 11-13-45:
 7/10 W 2" 112 M - Shale
 12/10 W 2" 146 M - Big Lime

OPEN FLOW - 146 M - Big Lime 80# R.P.
 112 M - Shale 325# R.P.

Tubed and shut in 11-13-45 in 3" Tubing.

Permit No. Way-387

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 FEB 25 2020
 WV Department of
 Environmental Protection

WW-4A
Revised 6-07

1) Date: February 10, 2020
2) Operator's Well Number: 805665

3) API Well No.: 47 - 099 - 00387

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

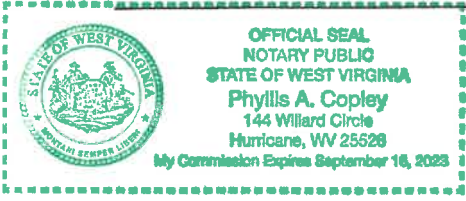
4) Surface Owner(s) to be served:	5) (a) Coal Operator
(a) Name: Jeffrey and Sharinda Jackson	Name: Lexington Coal Company
Address: 798 Tiger Fork Road East Lynn, WV 25512	Address: P.O. Box 58370 Charleston, WV 25358-0370
(b) Name: _____	(b) Coal Owner(s) with Declaration
Address: _____	Name: Southern Regional Industrial, Inc.
(c) Name: _____	Address: Three Commercial Place Norfolk, Virginia 25310
Address: _____	Name: _____
6) Inspector: Jeffery L. Smith	(c) Coal Lessee with Declaration
Address: 5349 Karen Circle, Apartment #2101	Name: Lexington Coal Company
Cross Lanes, WV 25313	Address: P.O. Box 58370
Telephone: 681-313-6743	Charleston, WV 25358-0370

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 Grealhouse
 Its: Manager - Environmental, Health, Safety
 Address: P.O. Box 6070
 Charleston, WV 25362
 Telephone: 304-353-5240

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 Office of Oil and Gas
 FEB 20 2020
 WV Department of
 Environmental Protection

Subscribed and sworn before me this 21st day of February 2020
Phyllis A. Copley Notary Public
 My Commission Expires September 16, 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 depprivacyofficer@wv.gov.

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EAST LYNN, WV 25512

OFFICIAL USE

Certified Mail Fee	\$3.55	0523
Extra Services & Fees (check box, add fee as appropriate)	\$2.85	04
<input type="checkbox"/> Return Receipt (hardcopy)	\$0.00	
<input type="checkbox"/> Return Receipt (electronic)	\$0.00	
<input type="checkbox"/> Certified Mail Restricted Delivery	\$0.00	
<input type="checkbox"/> Adult Signature Required	\$0.00	
<input type="checkbox"/> Adult Signature Restricted Delivery	\$0.00	
Postage	\$1.60	
Total	\$8.00	02/21/2020

Postmark Here

Sen 805665 P&A
Street Jeffrey & Sharinda Jackson
 798 Tiger Fork Road
City East Lynn, WV 25512

PS Instructions

805665
47-099-00387P

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CHARLESTON, WV 25358

OFFICIAL USE

Certified Mail Fee	\$3.55	0523
Extra Services & Fees (check box, add fee as appropriate)	\$2.85	04
<input type="checkbox"/> Return Receipt (hardcopy)	\$0.00	
<input type="checkbox"/> Return Receipt (electronic)	\$0.00	
<input type="checkbox"/> Certified Mail Restricted Delivery	\$0.00	
<input type="checkbox"/> Adult Signature Required	\$0.00	
<input type="checkbox"/> Adult Signature Restricted Delivery	\$0.00	
Postage	\$1.60	
Total Pr	\$8.00	02/21/2020

Postmark Here

Sent To 805665 P&A
Street a Lexington Coal Company
 P.O. Box 58370
City, St Charleston, WV 25358-0370

PS For Instructions

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NORFOLK, VA 23510

OFFICIAL USE

Certified Mail Fee	\$3.55	0523
Extra Services & Fees (check box, add fee as appropriate)	\$2.85	04
<input type="checkbox"/> Return Receipt (hardcopy)	\$0.00	
<input type="checkbox"/> Return Receipt (electronic)	\$0.00	
<input type="checkbox"/> Certified Mail Restricted Delivery	\$0.00	
<input type="checkbox"/> Adult Signature Required	\$0.00	
<input type="checkbox"/> Adult Signature Restricted Delivery	\$0.00	
Postage	\$1.60	
Total	\$8.00	02/21/2020

Postmark Here

Sen 805665 P&A
Street Southern Regional Industrial, Inc.
 Three Commercial Place
City Norfolk, Virginia 23510

PS For Instructions

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Office of Oil and Gas
FEB 25 2020
WV Department of
Environmental Protection

47-099-00387P

WW-9
(5/16)

API Number 47 - 099-00387
Operator's Well No. 805665

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) Right Fork of Little Lynn Creek (0509010202) 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 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 _____)

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) _____

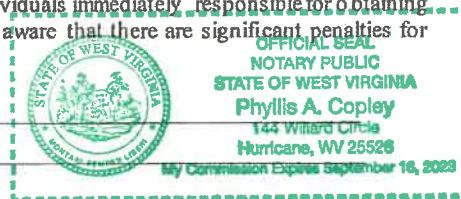
-Landfill or offsite name/permit number? _____

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 - Environmental, Health, Safety



Subscribed and sworn before me this 21st day of February, 2020

Phyllis A. Copley Notary Public

My commission expires September 16, 2023

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WV Department of
Environmental Protection

T +/-

Proposed Revegetation Treatment: Acres Disturbed _____ 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	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 dimensions (L, W), and area in acres, of the land application area.

Photocopied section of involved 7.5' topographic sheet.

Plan Approved by: All sediment control to be removed prior to

Comments: release.

Title: Oil & Gas Inspector Date: 3-17-20

Field Reviewed? () Yes () No

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

Operator Name: Core Appalachia Operating LLC
Watershed (HUC 10) Right Fork of Little Lynn Creek (0509010202) Quad: Nestlow
Farm Name: Huntington Development and Gas Mineral #62

- 1. List the procedures used for the treatment and discharge of fluids. Include a list of all operations that could contaminate the groundwater.

Treatment of the fluid will include adjusting pH and precipitating out solids as needed. Fluid will be discharged in a manor to eliminate sediment runoff, *AND POOLING. GWM*

The potential contaminates are class A cement, bentonite gel, and produced fluids. These contaminates are circulated to surface during plugging operations.

- 2. Describe procedures and equipment used to protect groundwater quality from the list of potential contaminant sources above.

The contaminants are circulated to surface and drainage controlled into a line pit. The cement and gel are allowed to settle out in the pit. The produced fluids will then be tested and if treatable treated and ground applied. Otherwise the produced fluids will be hauled to a commercial injection well.

- 3. List the closest water body, distance to closest water body, and distance from closest Well Head Protection Area to the discharge area.

Closest body of water is Right Fork Little Lynn Creek (1,700'). The discharge area is within 50' of the wellhead protection area. *4 MILES OF EAST LYNN LAKE*

- 4. Summarize all activities at your facility that are already regulated for groundwater protection.

There are no activities at this facility regulated for groundwater protection. The facility is a non producing gas well without a tank.

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Environmental Protection

- 5. Discuss any existing groundwater quality data for your facility or an adjacent property.

There is no existing ground water quality data at this site or adjacent properties

6. Provide a statement that no waste material will be used for deicing or fill material on the property.

No waste material will be used for deicing or fill material on this property.

7. Describe the groundwater protection instruction and training to be provided to the employees. Job procedures shall provide direction on how to prevent groundwater contamination.

DGOC supervision will manage testing and contract employees on site. DGOC supervision will ensure testing is within all required parameters prior to discharging and utilize silt fencing as needed to eliminate erosion.

8. Provide provisions and frequency for inspections of all GPP elements and equipment.

A job safety analysis will be completed each day on site to discuss the procedures, safety, and inspect all GPP elements and equipment.

Signature: 

Date: 2-10-2020

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Environmental Protection








Diversified Gas & Oil Corporation
100 Diversified Way
Pikeville KY, 41051

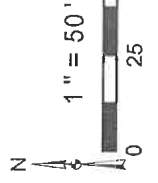
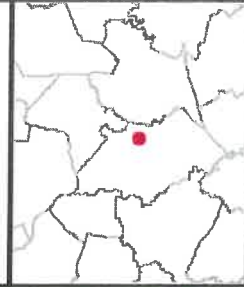
805665

Plugging Map

Legend

-  Well
-  Access Road
-  Pits
-  Pad
-  Public Roads

PITS ≤ 8' DEEP



Well No.: 805665
 UTM83-17, Meters
 North: 382681.8
 East: 4227023.23
 Elev.: 307.94

Secondary Pit

Primary Pit



Diversified Gas & Oil Corporation
100 Diversified Way
Pikeville KY, 41051

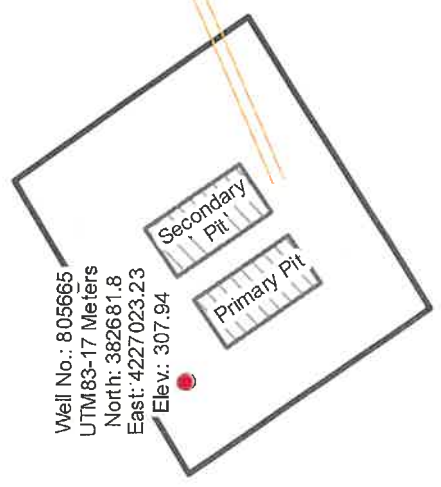
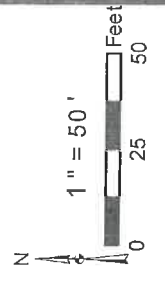
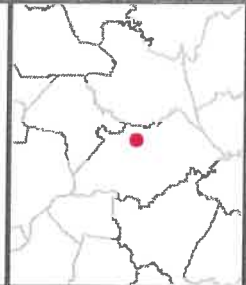
805665

Plugging Map

Legend

- Well
- Access Road
- ▨ Pits
- ▭ Pad
- Public Roads

PITS \leq 8' DEPT



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Diversified Gas & Oil Corporation
100 Diversified Way
Pikeville KY, 41051

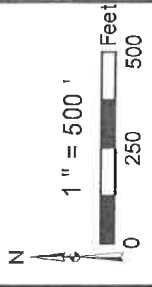
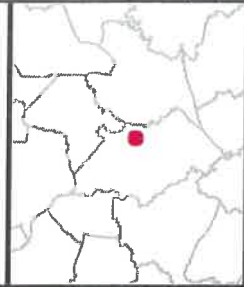
805665

Plugging Map

Legend

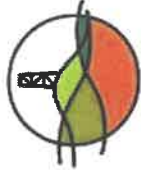
- Well
-  Access Road
-  Pits
-  Pad
-  Public Roads

PITS ≤ 8' DEEP



Well No.: 805665
 UTM 183-17, Meters
 North: 382681.8
 East: 4227023.23
 Elev.: 307.94

Source: Esri, DigitalGlobe, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community








Diversified Gas & Oil Corporation
100 Diversified Way
Pikeville KY, 41051

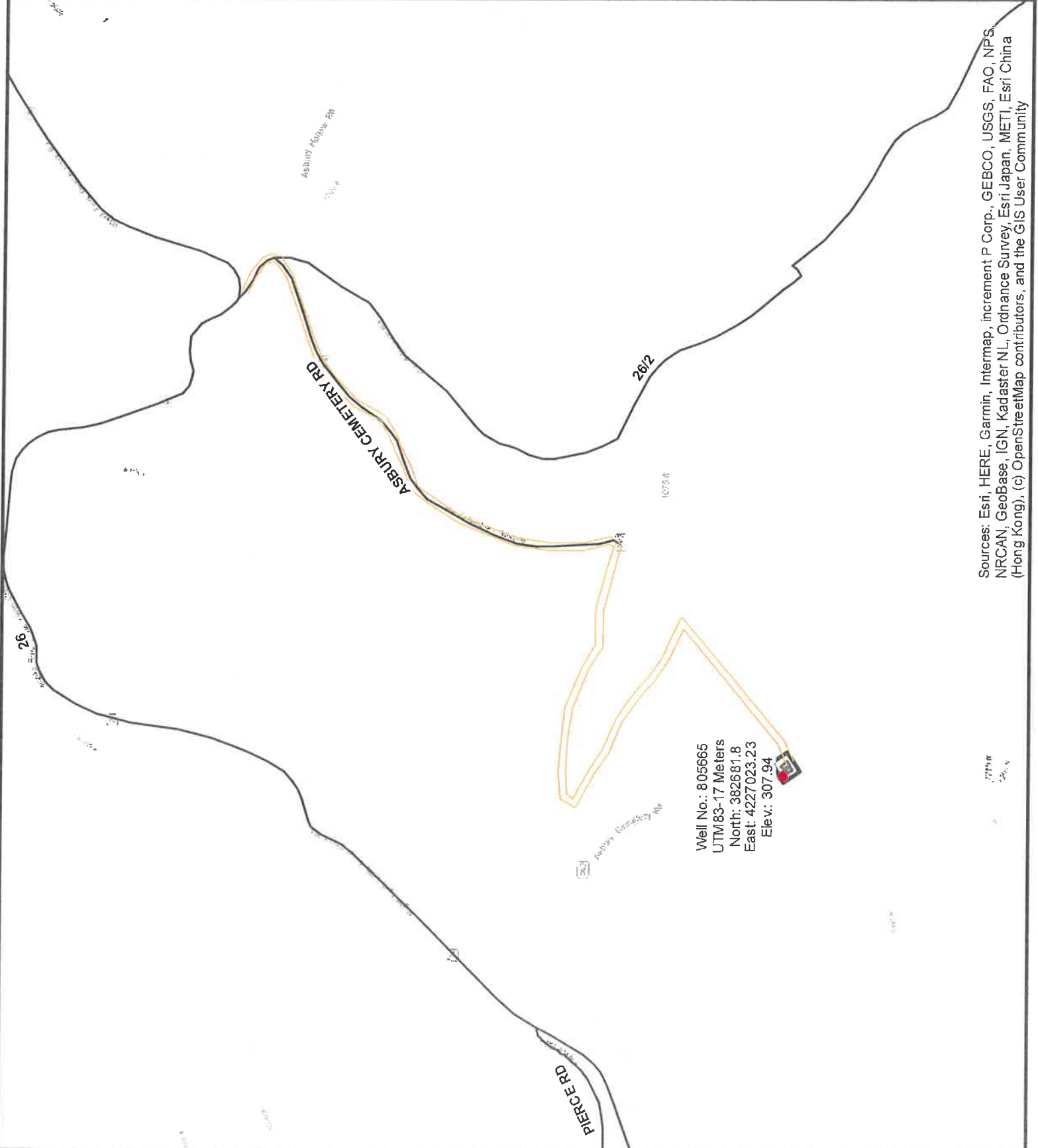
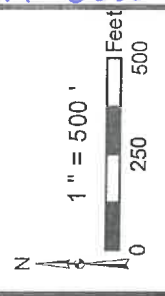
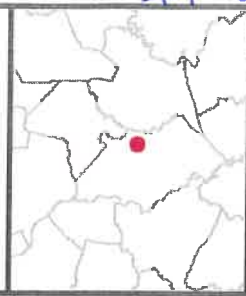
805665

Plugging Map

Legend

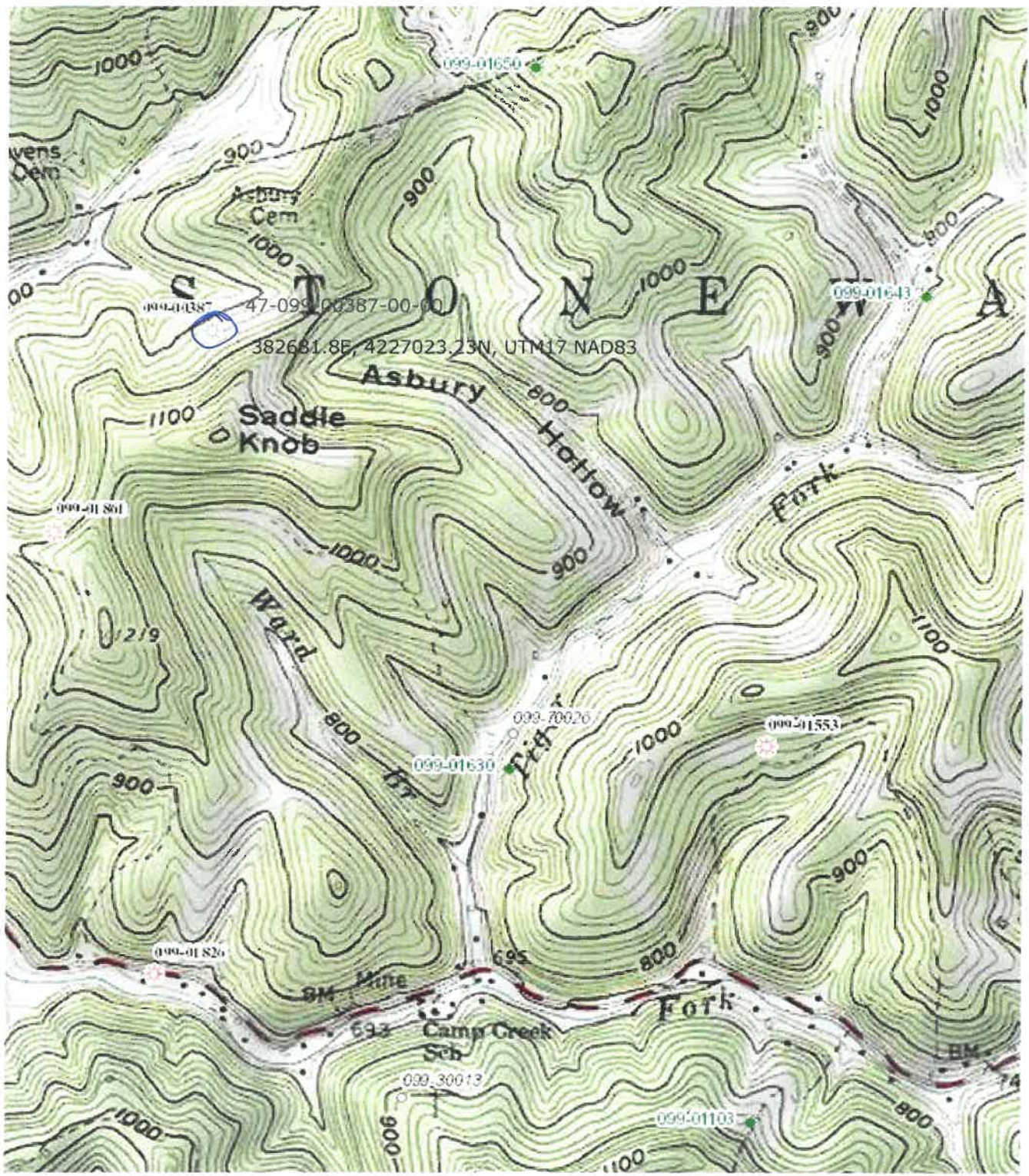
-  Well
-  Access Road
-  Pits
-  Pad
-  Public Roads

PITS = 8' DEEP



Sources: Esri, HERE, Garmin, Intermap, increment P Corp., GEBCO, USGS, FAO, NPS, NRCAN, GeoBase, IGN, Kadaster NL, Ordnance Survey, Esri Japan, METI, Esri China (Hong Kong), (c) OpenStreetMap contributors, and the GIS User Community

2774 ft
2500 ft



WW-7
8-30-06



West Virginia Department of Environmental Protection
Office of Oil and Gas

WELL LOCATION FORM: GPS

API: 47-099-00387 WELL NO.: 805665
FARM NAME: Huntington Development & Gas Company
RESPONSIBLE PARTY NAME: Core Appalachia Operating LLC
COUNTY: Wayne DISTRICT: Stonewall
QUADRANGLE: Nestlow
SURFACE OWNER: Jeffrey and Sharinda Jackson
ROYALTY OWNER: Core Appalachia
UTM GPS NORTHING: 382,681.8
UTM GPS EASTING: 4,227,023.23 GPS ELEVATION: 307.94 m ^{930.1}

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

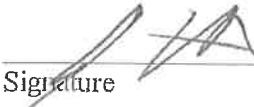
RECEIVED
Office of Oil and Gas

FEB 25 2020

WV Department of
Environmental Protection

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

Engineer III

Title

2/7/2020

Date