

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, May 1, 2019 WELL WORK PLUGGING PERMIT Vertical Plugging

CORE APPALACHIA OPERATING LLC 414 SUMMERS STREET

CHARLESTON, WV 25301

Re: Permit approval for 6861 47-099-00811-00-00

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

Operator's Well Number: 6861

US ARMY COE Farm Name:

U.S. WELL NUMBER: 47-099-00811-00-00

Vertical Plugging Date Issued: 5/1/2019

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. <u>Failure to adhere to the specified permit conditions may result in enforcement action.</u>

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.

WW-4B Rev. 2/01

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 (If "Gas, Production or Und | d injection/ Waste disposal/ derground storage) Deep/ Shallow_X |
|----|---|---|
| 5) | Location: Elevation 876.21' | Watershed East Fork of Twelvepole Creek |
| | District Stonewall | County Wayne Quadrangle Kiahsville |
| 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 | 9) Plugging Contractor Name R&R Well Service |
| | Address 165 Grassy Lick Lane | Address 42 Lynch Ridge |
| | Liberty, WV 25124 | Walton, WV 25286 |
| 0) | Work Order: The work order for the mann | RECEIVED Office of Oil and Gas |

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

Work order approved by inspector

Date 3-11-20/9

PLUGGING PROCEDURE 806861 WAYNE COUNTY, WEST VIRGINIA API# 47-099-00811

BY: DMC DATE: 3/7/2019

Current Status

10 34" @ 21'

8 5/8" @ 449'

7" @ 1317'

5 1/2" @ 1583' Pulled

3" tbg @ 1592' w/Anchor Pkr 3"x 6 5/8" x 16" @ 1581'

Shale: Shot 2247'-3134'

TD @ 3134'

Coal @ 130-135'

Fresh Water @ 155'

Salt Water @ 900'

Gas Shows @ 1525', 1580', 1583', 2090-2095', 2910', 3090'

Oil Show @ 2097'

Elevation 864.84'

6/7/2007 Swab Rig FL @ 1425', TD @ 1552', 3" tbg dropped

Objective: Plug and abandon

- 1) Prepare road and location.
- MIRU service rig and support equipment.
- Blow well down. Check TD.
 - SPOT GEL TO FILL SHOT HOLE TO 2240'.
- 4) Cut 3" tbg at free point and pull.
- 5) Spot 200' cement plug @ TD, ~ 2240 2040'.
- 6) TIH and tag cement plug, AND CEMENT IF NEEDED.
- 7) Spot 6% gel from 2040'- 1630'
- 8) Spot 155' cement plug from 1630' 1475'.
- 9) Spot 6% gel from 1475' 1400'.
- 10) Cut 7" at free point and pull. PLACE 100' CEMENT PLUG ACROSS CASING CUT.
- 11) Spot 30' cement plug from 1400'- 1270'.
- 12) Spot 6% gel from 1270 950'.
- 13) Spot 150' cement plug from 950-800'.
- 14) Spot 6% gel from 800 500'.
- 15) Spot 100' cement plug from 500 400'.

DF 3-11-19

- 16) Spot 6% gel from 400 200'.
- 17) Attempt to pull 8 5/8" csg. If unsuccessful, shoot or rip holes @ 150', 130', 100'.
- 18) Spot 200' cement plug from 200' Surface.
- 19) Pull work string and top off w/cement.
- 20) Erect permanent monument (30" minimum height and 6" minimum diameter pipe) with API # (1/2" height numbering) and reclaim.

AR 3-11-19

WEST VIRGIPIA DEPARTMENT OF MILES OIL & GAS DIVISION WELL RECORD

21

806861 47-099-05/03/2019

GOS

Pormit No. WAY-G11 Wayno Quad.

Brown Shalo

Fire Clay Total Depth 2676

3120

31349

3120

31.34

| Wayno Quad. | | | | | | 8.36 |
|--------------------|----------------------|-------------------|-----------|---------------|--------------------------------|----------------|
| 0.0000 | United Fuel | Gas Co | | CASTI | G à TUZI | i.G |
| Company Addross | | harleston, W. Va. | | 0 | - w | |
| | | n.Tr.#1 Acres 39. | | 10 3/4 | | 27. |
| Farm | | 2 polo crook. | 100800 | 5 5/5 | | 472 |
| Location | | Alov. 864 | 1.7.4 | 7" | | 1317 |
| Well lio. | 3631 | | | 5 1 | 1503 | |
| District | Grant | County - | nayno | 3 Tubing | 1000 | Pallod 1662 |
| Minoral | United Fuel 10/23/51 | Gr.S Co. | | o rubing | | 7022 |
| Commoncod | 1/15/52 | | | Angham 1 | Onalean oll | x 3 5/0" |
| Completed | | m 2247 to 3134 | | | | sot 1501'. |
| Dato Shot | 5866 2/3# G | | | Y 7/1 | Dobatt : | OO TOUT. |
| With Open Flow | 33/10ths Wa | | | | | |
| | 250 M plus | | | | | |
| Volume | 320-270# 46 | | | | | |
| R.P. | 01 1101 a=000 | TO HOULD | | | | |
| Soil | 0 | 20 | Water 155 | 1 4 BPH | | |
| Sand | 10 | 70 | H2M 300; | | 2 Carlot 1 | |
| Sinto | 70 | 1,00 | | 14201 7/10 7 | | .1 |
| Sand | 100 | 130 | | own to 2016 a | | |
| Coal | 130 | 1.35 | Gra 1525 | 4/10 7 2" 0 | 4 M | |
| Slate | 135 | 155 | Gas 1530? | inc. to 5/1 | 0 11 2" 0 | i M |
| Senu | 155 | 220 | Gas 1503* | 12/10 W 2" | 146 M. | |
| Slate & Shel | 1s 220 | 300 | Gas in he | ron 2090-209 | 5 ostim | atod 20 M |
| Sand | 300 | 330 | Show oil | 2097: | | |
| Slato | 338 | 365 | Small inc | erouse in gas | 2910 | |
| Band | 395 | | Gas 3090 | inco to 18/ | 10 7 2" | 179 M |
| Slato | 455 | | Tost bord | oro shot 39/1 | 0 71" 6 | Giá |
| Sand | 500 | 530 | Shot 11-2 | 28-51 with 35 | O# Doton | ito Irom |
| Slato | 550 | 617 | | 3-1557 | | |
| Sand | 617 | 7 795 | Tost nite | orshot & clou | nod out | 10/10 |
| Slato | 790 | 798 | 7 2 | 133 M | | |
| Salt Sand | 798 | 1000 | Tost bul | ore shooting | shalo 13 | /10 :: |
| Slato | 1000 | 0 1005 | 2" | 152 M | | |
| Sand | 100 | 5 1.045 | Shot 1-1 | 6-52 with 500 | 6-2/3# G | olatin. |
| Sloto | 104 | 5 1050 | from | m 2247-3134 | | |
| Sand | 105 | 0 1121 | Test 10 | hours after s | shot 30/1 | 0 17 2" |
| Slato | 112 | | 250 | 1.5 | | 4 |
| Maxon Sand | 115 | | | | | |
| Little Limo | 127 | | | NN FLON - 39: | | |
| Big Limo | . 126 | | | . P. 300# Ca | | .0 200 M |
| Red Rock | 1 46 | | 48 Hr. R | . P. 270# Tul | ing | |
| Injun Sand | 151 | | - | | | |
| Black Limo | 1.55 | | Shut in | 1-21-52 in 3' | | |
| Slate & Sho | | | | | · · · · · · | 2 |
| Brown Shalo | | | | | RECEIVED G | 199 |
| Borca Grit | 200 | | | Office | 001 | P |
| Slate & Sho | | | | - | CR 2 5 10 | |
| Brown S hal | | | | + | LU stanes | notion. |
| White Slate | | | | - 9 | PD Penertiner | Oleon- |
| Brown Shalo | | | | Env | Ar Departner Pronmental Pro | |
| White Slate | | | | | | |
| Dunma Shala | 257 | חפידה יי | | | | |

1) Date:

February 22, 2019

05/03

2) Operator's Well Number

03/03/20

3) API Well No.: 47 -

47-099

00811

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

| | ner(s) to be served: | 5) (a) Coal Operator | |
|--------------|---|----------------------|--|
| (a) Name | United States Army Corps of Engineers | Name | None |
| Address | Attn: Ms. Anita Bradburn, Realty Specialist | Address | |
| | 502 8th Street | | |
| (b) Name | Huntington, WV 25701 | (b) Coal Own | ner(s) with Declaration |
| Address | 1 | Name | Bureau of Land Management, Rolla Solid Minerals Office |
| | | Address | Attention: Timothy W. Howell |
| | | | 1400 Independence Road |
| (c) Name | | Name | Rolla, Missouri 65401 |
| Address | - | Address | |
| 6) Inspector | Allen Flowers | (c) Coal Less | ee with Declaration |
| Address | 165 Grassy Lick Lane | Name | Argus Energy, LLC |
| | Liberty, WV 25124 | Address | 81 Enterprise Drive |
| Telephone | 304-552-8308 | | Debord, KY 41214 |
| | | | |

TO THE PERSONS NAMED ABOVE: You should have received this Form and the following documents:

- 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.

September 16, 2023

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.

| OF TEST VI | OFFICIAL BEAL MOTARY PUBLIC | Well Operator | Core Appalachia Operating, LLC | TIMED and |
|-------------|--|---------------|---|-----------------|
| | Phylia A. Copiey | By: | Jessica Greathouse | BECK 1 200 Gas |
| | 144 Willard Circle | Its: | Manager - EHS & Administration Services | Office |
| March 1 | Huntoine, WV 25526 Imministra Espira September 16, 8025 | Address | P.O. Box 6070 | EFB 25 2000 |
| *********** | | 1 | Charleston, WV 25362 | ieni o |
| | | Telephone | 304-353-5240 | W. nental Proto |
| | | | | EUALECTIVE |

Notary Public

Oil and Gas Privacy Notice

My Commission Expires

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.

U.S. Postal Service™ CERTIFIED MAIL® RECEIPT 2711 Domestic Mail Only For delivery information, visit ou ROLLA: MO 65401 Certified Mail Fee 1 \$3.50 0523 中 \$2.80 \$3.00 01 1-Extra Services & Fees (check box, add fe Return Receipt (hardcopy) Return Receipt (electronic) \$0,00 Postmark Certified Mail Restricted Delivery Here \$0.00 Adult Signature Required \$0.00 Adult Signature Restricted Delive 0490 ostage \$1.30 02/22/2019 Tota' 806861 P&4 Bureau of Land Management 015 Rolla Solid Minerals Office Stre 1400 Independence Drive Rolla, Missouri 65401 City Attn: Timothy Nowel U.S. Postal Service™ CERTIFIED MAIL® RECEIPT 98 Domestic Mail Only 밀 For delivery information, visit our HUNTINGTON, WV 25701 마 Certified Mail Fee 0523 \$3.50 口 01 \$1.00 xtra Services & Fees (check box, add fee Return Receipt (hardcopy) LO \$0.00 Postmark Return Receipt (electronic) Certified Mail Restricted Delivery Here \$0.00 Adult Signature Required \$0.00 Adult Signature Restricted Delivery \$ Postage # \$1.30 190 02/22/2019 806861 P&A60 United States Army Corps of Engineers LO 707 Attn: Ms. Anita Bradburn, Realty Specialist 502 8th Street Huntington, WV 25701 Instruction U.S. Postal Service" CERTIFIED MAIL® RECEIPT Domestic Mail Only 4075 at www.usps.com[∞]. DEBORD, KY 41214 마 ertified Mail Fee 0523 \$3.50 口 01 1-Extra Services & Fees (check box, \$0.00 Return Receipt (hardcopy) Postmark \$0.00 5 Return Receipt (electronic) 000 Here Certified Mail Restricted Delivery \$0.00 Adult Signature Required \$0.00 Adult Signature Restricted Delivery \$ 0490 \$1.30 02/22/2019 Total 806861 P&A Argus Energy, LLC Sent 81 Enterprise Drive 707 Debord, KY 41214 Stree City, structions 80 85503/2019 47-099-008IP

Office of Oil and Gas

FEB 2 5 2019

Environmental Protection

API Number47 - 099 - 00811

Operator's Well No. 806861 05/03/2019

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) East Fork of Twelvepole Creek Quadrangle Kiahsville |
| Do you anticipate using more than 5,000 bbls of water to complete the proposed well work? Yes No 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 systembe used? If so, describe: |
| Orilling 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 nit landfill removed officite etc. |
| -If left in pit and plan to solidify what medium will be used? (cement, lime, sawdust) |
| -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 in April 1, 2016, by the Office of Oil and Gas of the West Virginia Department of Environmental Protection. I understand that the rovisions of the permit are enforceable by law. Violations of any term or condition of the general permit and/or other applicable law is 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 pplication 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 ubmitting false information, including the possibility of fine or imprisonment. Company Official Signature Jessica Greathouse |
| Company Official Title Manager - EHS and Administrative Services |
| |
| ubscribed and sworn before me this 22nd day of February, 20 19 Phylis a. Coply Notary Public |
| 1y commission expires September 16, 2023 |

Operator's Well No. 806861 05/03/2019

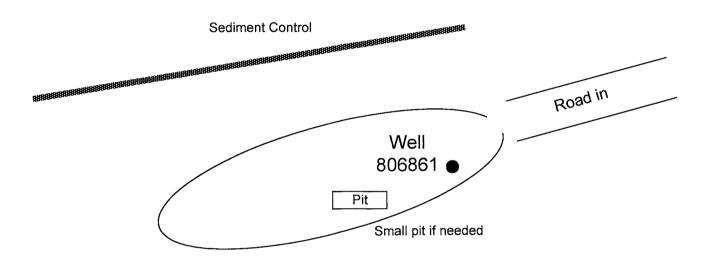
| Proposed Revegetation Treat | ment. Acres Disturbed | +/- Preveg etation pH | |
|---|---|---|--|
| Lime 3 | Tons/acre or to correc | t to pH 6.5 | |
| Fertilizer type 10 | 0-20-20 or equivalent | | |
| Fertilizer amount_ | | lbs/acre | |
| Mulch_2 | | _Tons/acre | |
| | | Seed Mixtures | |
| Te | emporary | Perma | nent |
| Seed Type | lbs/acre | Seed Type | lbs/acre |
| Red Fescue | 40 | Red Fescue | 15 |
| Alsike | 5 | Alsike Clover | 5 |
| Annual Rye | 15 | | |
| Maps(s) of road, location, provided). If water from the L, W), and area in acres, of | pit will be land applied, pro | application (unless engineered plans inclu vide water volume, include dimensions (L, | ding this info have been W, D) of the pit, and dime |
| Maps(s) of road, location, provided). If water from the L, W), and area in acres, of Photocopied section of invo | pit will be land applied, pro the land application area. | application (unless engineered plans incluvide water volume, include dimensions (L, | ding this info have been W, D) of the pit, and dime |
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| Photocopied section of invo | pit will be land applied, pro the land application area. | vide water volume, include dimensions (L, | W, D) of the pit, and dime |

CORE APPALACHIA OPERATING, L.L.C. 47-099-008119

Diagram of Well 806861 API 47-099-00811 Field Office - Hamlin County - Wayne

Surface Owner: US ARMY COE





Note: No Land Application if pit is used



Site Plan

Prepared by: Kris Aldridge

Date: 2/22/2019

WW-7 8-30-06



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

| | CATION FORM. GI | |
|---|--|-------------------------|
| _{API:} 47-099-00811 | WELL NO.: | 806861 |
| FARM NAME: TCO MIN | TR 1 | |
| RESPONSIBLE PARTY NAME | Core Appalachia O | perating, LLC |
| COUNTY: Wayne | DISTRICT: St | onewall |
| _{QUADRANGLE:} Kiahsville | | |
| SURFACE OWNER: US AR | MY COE | |
| ROYALTY OWNER: Core A | | on, LLC |
| UTM GPS NORTHING: 4213 | | |
| UTM GPS EASTING: 38562 | | TION: 267.09m [876.27'] |
| height above mean sea l Accuracy to Datum – 3. Data Collection Method | ne: 17 North, Coordinate Units: n evel (MSL) – meters. 05 meters I: | neters, Altitude: |
| Survey grade GPS; Post P | Processed Differential | - C) [|
| Mapping Grade GPS X : Po | | Environment FER W |
| Re | al-Time Differential X | |
| 4. Letter size copy of the I the undersigned, hereby certify the belief and shows all the information prescribed by the Office of Oil and | n required by law and the regulat | y knowledge and |
| Two allando | EHS Specialist | 2/22/19 |
| Signature | Title | Date |