

### west virginia department of environmental protection

Office of Oil and Gas 601 57<sup>th</sup> Street, S.E. Charleston, WV 25304 (304) 926-0450 fax: (304) 926-0452 Jim Justice , Governor Austin Caperton , Cabinet Secretary www.dep.wv.gov

Monday, October 16, 2017 WELL WORK PERMIT Coal Bed Methane Well / Plugging

ARP MOUNTAINEER PRODUCTION, LLC 425 HOUSTON, STE 300

FORT WORTH, TX 76102

Re:

Permit approval for BCC-001A

47-081-01365-00-00

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.

Please be advised that form WR-35, Well Operators Report of Well Work 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: BCC-001A Farm Name: BEAVER COAL COMPANY U.S. WELL NUMBER: 47-081-01365-00-00

Coal Bed Methane Well / Plugging

Date Issued: 10/16/2017

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 twenty-four (24) hours.
- 3. Well work activities shall not constitute a hazard to the safety of persons.

WW-4B Rev. 2/01

| 1) Date 8-31          | , 20 17 |
|-----------------------|---------|
| 2)Operator's          |         |
| Well No. BCC-001A     |         |
| 3) API Well No. 47-81 | - 01365 |

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

| APPLICATION FOR A PER 4) Well Type: Oil / Gas X / Liqui                                   | MIT TO PLUG AND ABANDON A COAL BEO METHAGE WELL |
|---|---|
|   | derground storage) Deep/ Shallow                |
|   | Watershed Burnt Branch of Slab Fork             |
| District Slab Fork  | County Raleigh Quadrangle Lester                |
| ARP Mountaineer Production, h 6) Well Operator 425 Houston Street                         |   |
| Address Suite 300   | Address 5400 D Big Tyler Road                   |
| Fort Worth Texas 76102  | Charleston WV 25313                             |
| 8) Oil and Gas Inspector to be notified $$\operatorname{\textsc{Name}}$$ Gary Kenedy      | 9)Plugging Contractor Name_TBD                  |
| Address 252 Circle Ave.   | Address   |
| Rainelle WV 25962   |   |
| See attached procedure.  PINNATE LATERALS WILL BE BEFORE SETTING OPEN HOLE  YMM  Iolislin |   |
|   | RECEIVED Office of Oil and Gas                  |
|   | SEP 1 9 2017                                    |
|   | WV Department of<br>Environmental Protection    |
|   |   |
| Notification must be given to the district o work can commence.                           | il and gas inspector 24 hours before permitted  |
| Work order approved by inspector  | Levely Date 9/18/17                             |

### BCC 001A API# 47-081-01365

ARP Mountaineer Production, LLC proposes the following procedures for plugging:

- 1. MIRU Service Rig
- 2. RIH w tubing and open hole bridge plug to 1250' or as deep as reasonably achievable
- 3. Set OH bridge plug
- 4. POOH w setting tool
- 5. RIH w tubing to top of open hole bridge plug
- 6. Set 125 cf cement plug from 1250' to 780' with 95 sx expanding cement
- 7. POOH w tubing
- 8. WOC 4 hours and RIH w tubing to tag plug ~780' (no deeper than 880')
- 9. Set 175 cf cement plug from 780' to surface w 135 sx expanding cement
- 10. RDMO service rig to BCC 001B
- 11. Install permanent marker and reclaim location to WVDEP specs

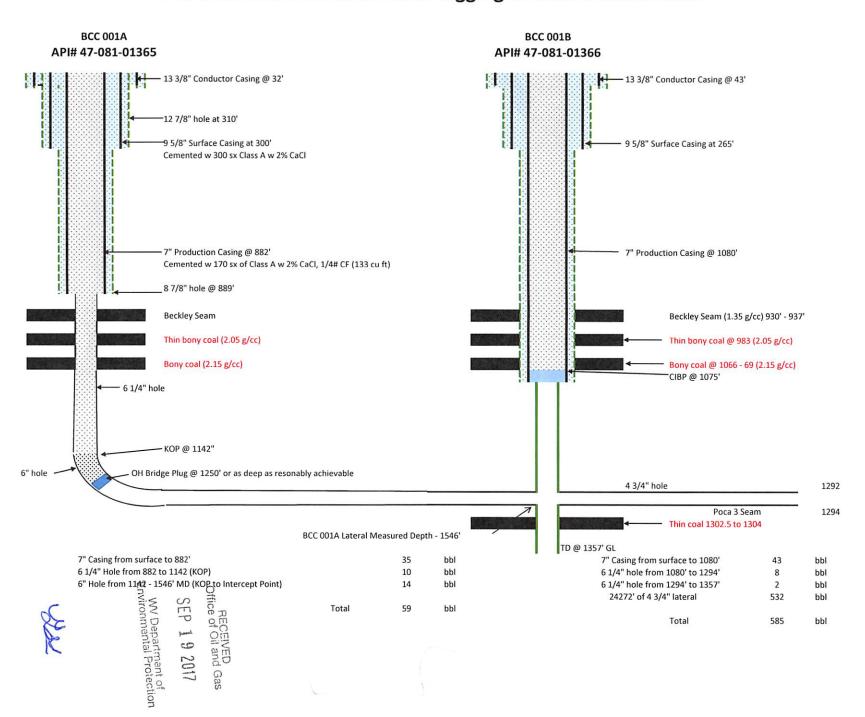
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WV Department of Environmental Protection

### **BCC 001A and BCC 001B Post Plugging Wellbore Schematics**



# State of West Virginia Division of Environmental Protection Section of Oil & Gas Well Operator's Report of Well Work

| arm name: Beaver Coal Company   | Oper                         | ator Well N                | lo: BCC-0   | 01A                          |                        |
|---|------------------------------|----------------------------|---|------------------------------|------------------------|
| ocation: Elevation: 2465.21'  | Quad                         | drangle:L                  | .ester  |                              |                        |
| District: Slab Fork   | Cour                         | nty:F                      | Raleigh   | <del>nmins</del> .           |                        |
| Latitude: 7336 Feet So Longitude: 12692 Feet We   | uth of 37 De<br>est of 81 De | eg. 45 Min.<br>eg. 20 Min. | 00 Sec.<br>00 Sec.                                  |                              |                        |
| Company: CDX Gas, LLC<br>P.O. Box 609   |                              |                            | 4   |                              |                        |
| Pineville, WV 24874  Agent: JOSEPH A. ZUPANICK  | Casing & Tubing              | Used in Drilling           | Left in<br>Well                                     | Cement<br>Fill up            |                        |
|   | Size                         | Diming                     | VV CII  | Cu.ft.                       |                        |
| nspector: <u>Name</u><br>Permit Issued: <u>07/07/2005</u>   | 13 3/8"                      | 32                         | 32  | 22                           |                        |
| Well Work commenced:         7/20/2005           Well Work completed:         8/20/2005   | 9 5/8 "                      | 300                        | 300   | 94                           |                        |
| Verbal plugging   | 7"                           | 882                        | 882   | 133                          |                        |
| Permission granted on: Rotary x Cable Rig Total depth (ft) 1289'.   |                              |                            |   |                              |                        |
| resh water depths (tt) N/A  |                              |                            |   |                              |                        |
| Salt water depths (ft) N/A s coal being mined in the area (Y/N)? Y  |                              |                            |   |                              |                        |
| Coal depths (ft): <u>930,1286.</u>  |                              |                            |   |                              |                        |
| OPEN FLOW DATA  |                              |                            |   |                              |                        |
| Producting formation (Non-producer)  Gas: Initial open flow N/A Mcf/d Final open flow N/A Mcf/d Time of open flow between initial and static rock pressure psig (surface) | <br>final tests: _           | Oil: I<br>F                | Pay zone de<br>nitial open f<br>Final open f<br>hou | epth (ft)<br>flow l<br>low l | 3bl/d<br>Bbl/d         |
|   |                              |                            | hour  | S                            |                        |
| Second Producing formation  Gas: Initial open flow Mcf/d  Final open flow Mcf/d   | tial and final               | Oil: I                     | Pay zone de<br>nitial open f<br>Final open f        | low                          | Bpi/a                  |
| Final open flow Mcf/d Time of open flow between ini Static rock pressure psig (surfa  | ce pressure)                 | after                      | hour  | 'S                           |                        |
| Third Producing formation  Gas: Initial open flow Mcf/d  Final open flow Mcf/d  Time of open flow between ini   |                              | —Oil: I                    | Pay zone on<br>nitial open f<br>inal open f         | lepth<br>flow                | (ft)<br>Bbl/d<br>Bbl/d |
| Static rock pressure psig (surfa-   | ce pressure)                 | after                      | hour  |                              |                        |
| Note: ON BACK OF THIS FORM, PUT THE FOLLO FRACTURING OR STIMULATING, PHYSICAL CHANGE, DETAILED GEOLOGICAL RECORD OF ALL FORMAT WELLBORE.                                  | ETC. 2) TH                   | IE WELL LO                 | G WHICH IS  | A SYSTEM                     | ATICK                  |
|   | For:                         | Charles<br>CDX Ga          |   |                              |                        |
|   | Ву:                          | Cha                        | 16  | 101                          |                        |
|   | Date                         | REGE                       | NES/2   | 2005                         |                        |
|   |                              | Office of C                | n and clas  | . He                         | 0                      |
|   |                              | SEP 1                      | 9 2017  | rold                         |                        |

Operator: BCC-001A API No. 47-081-01365 Location: Raleigh County

Details of Perforated Intervals, Fracturing or Stimulation, Physical Change, Etc. -N/A Well Log & Geologic Record - Depths from G.L.

|             | Depth in feet |        |  |
|-------------|---------------|--------|--|
| Lithology   |               | Bottom |  |
| Casing      | 0             | 10     |  |
| Sandy Shale | 10            | 70     |  |
| Shale       | 70            | 130    |  |
| Sandy Shale | 130           | 200    |  |
| Shale       | 200           | 240    |  |
| Sandy Shale | 240           | 300    |  |
| Shale       | 300           | 380    |  |
| Sandy Shale | 380           | 400    |  |
| Shale       | 400           | 580    |  |
| Sandy Shale | 580           | 600    |  |
| Shale       | 600           | 620    |  |
| Sandy Shale | 620           | 720    |  |
| Shale       | 720           | 900    |  |
| Sandy Shale | 900           | 930    |  |
| Coal        | 930           | 937    |  |
| Shale       | 937           | 1010   |  |
| Sandy Shale | 1010          | 1090   |  |
| Shale       | 1090          | 1150   |  |
| Sandy Shale | 1150          | 1260   |  |
| Shale       | 1260          | 1286   |  |
| Coal        | 1286          | 1289   |  |
| End         |               |        |  |

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WW-4A 1) Date: Revised 6-07 2) Operator's Well N BCC-001A 3) API Well No.: 47 -01365 STATE OF WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS NOTICE OF APPLICATION TO PLUG AND ABANDON A WELL 5) (a) Coal Operator 4) Surface Owner(s) to be served: (a) Name Beaver Coal Company, LTD Name No operations at this time Address 115-1/2 B South Kanawha St Address Beckley, WV 25802 (b) Name Western Pocahontas Properties (b) Coal Owner(s) with Declaration Beaver Coal Company, LTD Name Address 5260 Irwin Road Huntington WV 25705 Address 115-1/2 B South Kanawha St. Beckley, WV 25802 (c) Name Name Address Address (c) Coal Lessee with Declaration 6) Inspector Gary Kenedy (1) Pocahontas Coal Co. 442 Lost Tree Lane, Knoxville, TN 37934-2583 has Poca 3 seam Address 252 Circle Ave. Name Rainelle WV 25962 Address Telephone 304-382-8402 (2) Grey Flats Development Co., 109 Appalachian Drive, Beckley, WV 25801 has Beckley seam TO THE PERSONS NAMED ABOVE: You should have received this Form and the following documents: RECEIVED toe of Oil and Gas The application to Plug and Abandon a Well on Form WW-4B, which sets out the parties involved in the work and describes the SEP 1 9 2017 well its and the plugging work order; and 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 Department of 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 ARP MOUNTAINEER PRODUCTION, LLC By: Its: Address Telephone

Oil and Gas Privacy Notice

My Commission Expir

Subscribed and sworn before, me this

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.

ASHLEY TIDWELL Notary Public, State of Texas Comm. Expires 06-16-2021

Notary ID 129150363

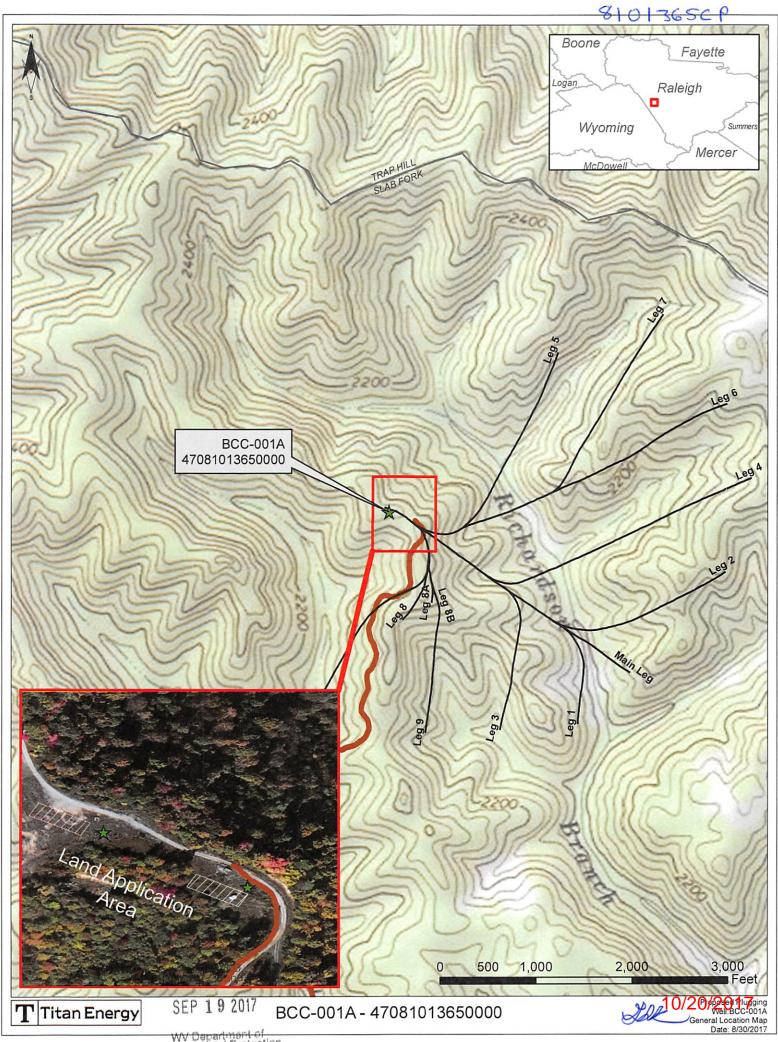
WW-9 (5/16)

| API Number   | 47 -   | 81 | _01365 |
|--------------|--------|----|--------|
| Operator's W | ell No | o. |        |

## STATE OF WEST VIRGINIA

| DEPARTMENT OF ENVIRONMENTAL PROTECTION OFFICE OF OIL AND GAS FLUIDS/ CUTTINGS DISPOSAL & RECLAMATION PLAN   |  |
|---|--|
| Operator Name_ARP MOUNTAINEER PRODUCTION, LLC OP Code 494509804   |  |
| Watershed (HUC 10) 0507010101 ( Richardson Branch ) Quadrangie Tommy Creek-Guyandotte River   |  |
| 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 Will a pit be used? Yes No Will a pit be used?  |  |
| If so, please describe anticipated pit waste: Water and Coment to be Collected in open top tank  Will a synthetic liner be used in the pit? Yes No If so, what ml.?   |  |
| 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 systembe 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 Cas 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 | RECEIVED                                     |
| submitting false information, including the possibility of fine or imprisonment.  |  |
| Company Official Signature Tuble Harris   | OCT 1 2 2017                                 |
| Company Official (Typed Name) July Harris   | WV Department of<br>Environmental Protection |
| Company Official Title Director, HSE  | Liviloimental Frote                          |
|   |  |
| Subscribed and sworn before me this 3 day of August , 20 ASHLEY TIDWEL Notary Public, State of Comm. Expires 08-16.  My commission expires (0/10/20/3)  | Texas<br>-2021                               |

|  | Operator's Well No   |
|--|--|
| Proposed Revegetation Treatment: Acres Disturbed 0.5   | Prevegetation pH 5-6.5   |
| Lime 2 Tons/acre or to correct to pH 6   |  |
| Fertilizer type 10-20-20 or equivalent   |  |
| Fertilizer amount 500 lbs/a  | cre  |
| Mulch_ Hay/StrawTons/acr   |  |
| Seed N   | <u>lixtures</u>  |
| Temporary  | Permanent  |
| Seed Type lbs/acre   | Seed Type lbs/acre   |
| Tall Fescue 40   |  |
| Annual Rye Grass 5   |  |
|  |  |
| Maps(s) of road, location, pit and proposed area for land application provided). If water from the pit will be land applied, provide water (L, W), and area in acres, of the land application area.  Photocopied section of involved 7.5' topographic sheet.  Plan Approved by:  Comments: | on (unless engineered plans including this info have been evolume, include dimensions (L, W, D) of the pit, and dimensions  RECEIVED Office of Oil and Gas Office of Oil and O |
|  |  |
|  |  |
|  |  |
|  |  |
|  |  |
| Title: Tirspector  | Date: 9/18/17  |
| Field Reviewed? Yes  | )No  |



WW-9- GPP Rev. 5/16

|               | Page           | of        |  |
|---------------|----------------|-----------|--|
| API Number    | 47 - <u>81</u> | <br>01365 |  |
| Operator's We | ell No.        | <br>      |  |

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

| Vatershed (HUC 10): 0507010101 ( Richardson Branch )  | Quad: Tommy Creek-Guyandotte River                            |
|---|---|
| arm Name:   | Quad  |
| List the procedures used for the treatment and discharge of fluids groundwater.                             | . Include a list of all operations that could contaminate the |
| Waste water that is collected into the portable tank va 2" portable gasoline powered trash pump.            | will be treated and ground disbursed using                    |
| . Describe procedures and equipment used to protect groundwater q   | uality from the list of potential contaminant sources above   |
| While in operation, the portable 2" gasoline powered containment eliminating chances for potential spillage | · · · · · · · · · · · · · · · · · · ·                         |
| . List the closest water body, distance to closest water body, and discharge area.                          | distance from closest Well Head Protection Area to the        |
| Closest Water Body - Richardson Branch  |   |
| Distance to Closest Water Body 1,200' +/-   |   |
| Distance from Closest WHPA to Discharge Area - N  | I/A   |
| . Summarize all activities at your facility that are already regulated                                      | for groundwater protection.                                   |
| Not applicable.   |   |
|   |   |
|   | DECEMEN   |

SEP 1 9 2017

WV Department of Environmental Protection 17/20/2017

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| Page                | of      |
|---------------------|---------|
| API Number 47 - 81  | - 01365 |
| Operator's Well No. |         |

| Not Applicable  |  |
|---|--|
|   |  |
| Provide a statement that no waste material will be used for   | deicing or fill material on the property.  |
| No wastes will be used for deicing, ice control   | structural fills, road base or other uses.   |
| Describe the groundwater protection instruction and train provide direction on how to prevent groundwater contamin  | ning to be provided to the employees. Job procedures shall nation.                               |
|   | pility to ensure groundwater protection. Current event ground water contamination through proper |
|   |  |
|   |  |
|   |  |
| Provide provisions and frequency for inspections of all CP  | P elements and equipment.  |
| Provide provisions and frequency for inspections of all CP  During the plugging and abandonment activities elements and equipment of the sites ground w functioning, and appropriately managed. | es, the site will be inspected to ensure that all  |

Signature: KOC

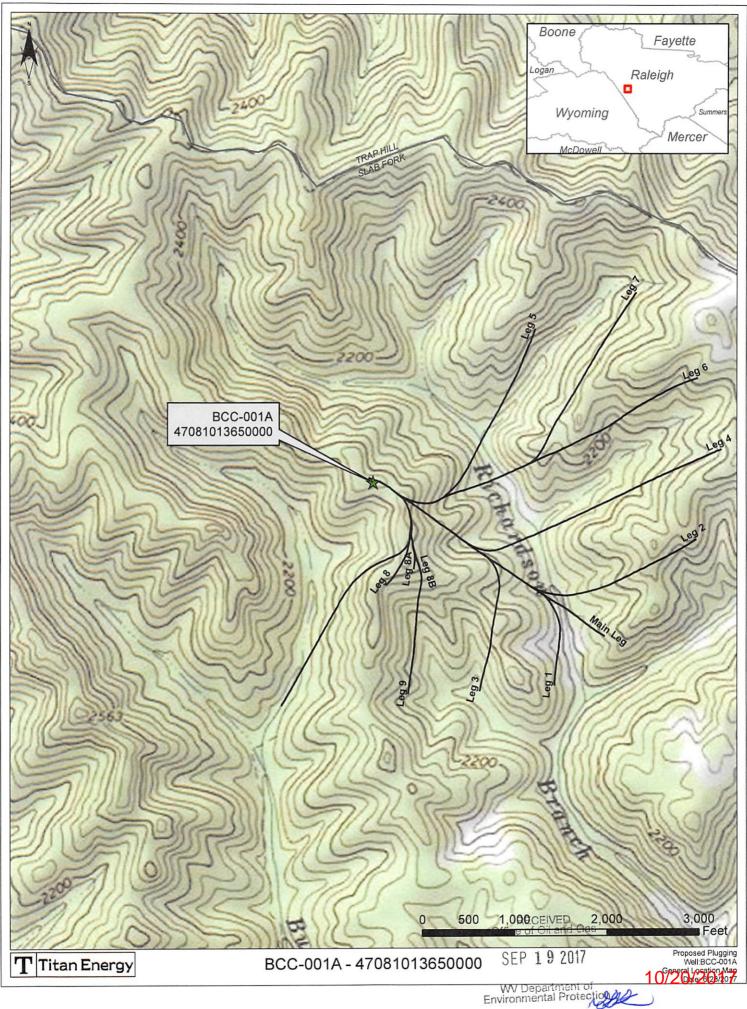
8-31-2017

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WV Department of Environmental Protection





WW-7 8-30-06



## West Virginia Department of Environmental Protection Office of Oil and Gas

| 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 www.Department.   | WELL I  | LOCATION FORM: GPS   |                                   |
|--|---|--|-----------------------------------|
| RESPONSIBLE PARTY NAME:  ARP MOUNTAINEER PRODUCTION, LLC  COUNTY: Raleigh  DISTRICT: Slab Fork  QUADRANGLE: Lester  SURFACE OWNER: Beaver Coal Company, LTD  ROYALTY OWNER: Beaver Coal Company, LTD  UTM GPS NORTHING: 4174281  UTM GPS EASTING: 468405  GPS ELEVATION: 2465  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  WD Department Environmental Provision is sued and belief and shows all the information required by law and the regulations issued and  | <sub>API:</sub> 8101365   | WELL NO.: BO   | CC-001A                           |
| COUNTY: Raleigh  QUADRANGLE: Lester  SURFACE OWNER: Beaver Coal Company, LTD  ROYALTY OWNER: Beaver Coal Company, LTD  UTM GPS NORTHING: 4174281  UTM GPS EASTING: 468405  GPS ELEVATION: 2465  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  Received Differential  | FARM NAME: BEAVER   | COAL COMPANY   |                                   |
| COUNTY: Raleigh  QUADRANGLE: Lester  SURFACE OWNER: Beaver Coal Company, LTD  ROYALTY OWNER: Beaver Coal Company, LTD  UTM GPS NORTHING: 4174281  UTM GPS EASTING: 468405  GPS ELEVATION: 2465  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  Received Differential  | RESPONSIBLE PARTY NAM   | IE: ARP MOUNTAINEER PROD   | UCTION, LLC                       |
| QUADRANGLE: Lester  SURFACE OWNER: Beaver Coal Company, LTD  ROYALTY OWNER: Beaver Coal Company, LTD  UTM GPS NORTHING: 4174281  UTM GPS EASTING: 468405 GPS ELEVATION: 2465  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  Real-Time Differential  Real-Time Differential  Real-Time Differential  SEP 19 20  WV Department Environmental Provincemental Provincement Provincemental Provincement Provincement Provincement Provincem |   |  |                                   |
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| ROYALTY OWNER: Beaver Coal Company, LTD  UTM GPS NORTHING: 4174281  UTM GPS EASTING: 468405  GPS ELEVATION: 2465  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  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   | SURFACE OWNER: Beav   | er Coal Company, LTD   | )<br>                             |
| UTM GPS NORTHING: 4174281  UTM GPS EASTING: 468405  GPS ELEVATION: 2465  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  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  | ROYALTY OWNER: Beav   | er Coal Company, LTD   | )                                 |
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| Mapping Grade GPS X: Post Processed Differential Real-Time Differential X  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 SEP 19 20  | preparing a new well location pla<br>above well. The Office of Oil and<br>the following requirements:  1. Datum: NAD 1983, Z<br>height above mean se  2. Accuracy to Datum –  3. Data Collection Meth | at for a plugging permit or assigned Ald Gas will not accept GPS coordinates  Zone: 17 North, Coordinate Units: meters  a level (MSL) – meters.  3.05 meters  and: | I number on the that do not meet  |
| Real-Time Differential X  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   |   |  |                                   |
| 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   |   |  | RECEIVED<br>Office of Oil and Gas |
| Signature Title Date   | 4. Letter size copy of the I the undersigned, hereby certify belief and shows all the informat  | the topography map showing the well this data is correct to the best of my known in the regulation and Gas.  | nowledge and WV Department of     |