

### west virginia department of environmental protection

Office of Oil and Gas 601 57th Street SE Charleston, WV 25304 (304) 926-0450 (304) 926-0452 fax Earl Ray Tomblin, Governor Randy C. Huffman, Cabinet Secretary www.dep.wv.gov

October 15, 2015

### WELL WORK PLUGGING PERMIT

### Plugging

This permit, API Well Number: 47-4701997, issued to ENERVEST OPERATING L. L. C., 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 all 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. The above named operator will also file, as required in WV Code 22-6-23, an affidavit on form WR-38 by two experienced persons in the operator's employment and the Oil and Gas inspector that the work authorized under this permit was performed and a description given. Failure to abide by all statutory and regulatory provisions governing all duties and operations here under may result in suspensions or revocation of this permit and in addition may result in civil and/or criminal penalities being imposed upon the operator.

This permit will expire in two (2) years from date of issue. If there are any questions, please free to contact me at (304) 926-0499 ext. 1654.

James Martin

Operator's Well No: MT-1A

Farm Name: CENTRAL WV ENERGY COMPAN

API Well Number: 47-4701997

Permit Type: Plugging Date Issued: 10/15/2015

# 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.

WW-4A Revised 6-07

| 1) Date:                |     |       |  |
|-------------------------|-----|-------|--|
| 2) Operator's Well Numb | er  |       |  |
| 2) ADI Wall No : 47     | 047 | 01997 |  |

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

|  | er(s) to be served:<br>Ecosystem Investment Partners   | 5) (a) Coal Operato<br>Name   | Central WV Energy Company  | W   |
|--|--|---|--|---|
| (a) Name<br>Address  | 2002 Clipper Park Road, Suite 201  | Address   |  | W   |
| Address  | Baltimore, MD 21211  | Address   | 300 Running Right Way  |   |
| AV M   | Baitimore, MD 21211  | 4).010  | Julian, WV 25529   |   |
| (b) Name   |  |   | wner(s) with Declaration   | /   |
| Address  |  | Name  | Central WV Energy Company  | W   |
|  |  | Address   | 300 Running Right Way  | /   |
|  |  | -2100.0   | Julian, WV 25529   |   |
| (c) Name   |  | Name  | •  |   |
| Address  |  | Address   |  |   |
| ) Inspector  | Gary Kennedy   | (c) Coal Le   | essee with Declaration   |   |
| Address  | PO Box 268   | Name  |  |   |
|  | Nimitz, WV 25978   | Address   |  |   |
| Telephone  | 304-382-8402   |   |  |   |
|  |  |   |  |   |
| Take notice t<br>accompanyin<br>Protection, w  | that under Chapter 22-6 of the West Virg<br>g documents for a permit to plug and ab-<br>tith respect to the well at the location des   | I.<br>ginia Code, the undersigned well<br>andon a well with the Chief of the<br>scribed on the attached Applicate   | operator proposes to file or has filed this<br>the Office of Oil and Gas, West Virginia D<br>ion and depicted on the attached Form W   | Notice and Application and epartment of Environmenta W-6. Copies of this Notice   |
| Take notice t<br>accompanyin<br>Protection, w<br>the Applicati   | that under Chapter 22-6 of the West Virg<br>g documents for a permit to plug and ab-<br>tith respect to the well at the location des   | I.  ginia Code, the undersigned well andon a well with the Chief of the scribed on the attached Applicate egistered or certified mail or de   | operator proposes to file or has filed this<br>the Office of Oil and Gas, West Virginia D  | Notice and Application and epartment of Environmenta W-6. Copies of this Notice   |
| Take notice t<br>accompanyin<br>Protection, w<br>the Applicati   | a are not required to take any action at all that under Chapter 22-6 of the West Virging documents for a permit to plug and aborth respect to the well at the location design, and the plat have been mailed by remstances) on or before the day of mailing    | I.  ginia Code, the undersigned well andon a well with the Chief of the scribed on the attached Applicate egistered or certified mail or de   | I operator proposes to file or has filed this<br>he Office of Oil and Gas, West Virginia D<br>ion and depicted on the attached Form W<br>elivered by hand to the person(s) named   | Notice and Application and epartment of Environmenta W-6. Copies of this Notice   |
| Take notice t<br>accompanyin<br>Protection, w<br>the Applicati   | a are not required to take any action at all that under Chapter 22-6 of the West Virging documents for a permit to plug and aborth respect to the well at the location design, and the plat have been mailed by remstances) on or before the day of mailing    | Inia Code, the undersigned well<br>andon a well with the Chief of the<br>scribed on the attached Applicate<br>egistered or certified mail or do<br>or delivery to the Chief.  | I operator proposes to file or has filed this<br>he Office of Oil and Gas, West Virginia D<br>ion and depicted on the attached Form W<br>elivered by hand to the person(s) named   | Notice and Application and epartment of Environmenta W-6. Copies of this Notice   |
| Take notice t<br>accompanyin<br>Protection, w<br>the Applicati   | that under Chapter 22-6 of the West Virg<br>and documents for a permit to plug and ab-<br>point respect to the well at the location des-<br>on, and the plat have been mailed by re-<br>instances) on or before the day of mailing<br>Well Ope                 | ginia Code, the undersigned well and on a well with the Chief of the scribed on the attached Applicate egistered or certified mail or decorded or delivery to the Chief.  EnerVest Operating,   | I operator proposes to file or has filed this<br>he Office of Oil and Gas, West Virginia D<br>ion and depicted on the attached Form W<br>elivered by hand to the person(s) named   | Notice and Application and epartment of Environmental W-6. Copies of this Notice above (or by publication in  |
| Take notice t<br>accompanyin<br>Protection, w<br>the Applicati   | that under Chapter 22-6 of the West Virging documents for a permit to plug and about respect to the well at the location desion, and the plat have been mailed by remaining on or before the day of mailing well Ope By:                                       | ginia Code, the undersigned well and on a well with the Chief of the scribed on the attached Applicate egistered or certified mail or decorded or delivery to the Chief.  EnerVest Operating,   | l operator proposes to file or has filed this he Office of Oil and Gas, West Virginia D ion and depicted on the attached Form Welivered by hand to the person(s) named to the person of the control of of the c | Notice and Application and epartment of Environmenta W-6. Copies of this Notice above (or by publication in   |
| Take notice t<br>accompanyin<br>Protection, w<br>the Applicati   | that under Chapter 22-6 of the West Virging documents for a permit to plug and about respect to the well at the location desion, and the plat have been mailed by remaining on or before the day of mailing well Ope By:  Its:                                 | ginia Code, the undersigned well and on a well with the Chief of the scribed on the attached Applicate egistered or certified mail or do or delivery to the Chief.  EnerVest Operating, Sentor Vice Presiden  | Loperator proposes to file or has filed this he Office of Oil and Gas, West Virginia Dison and depicted on the attached Form Welivered by hand to the person(s) named L.L.C.   | Notice and Application and epartment of Environmenta W-6. Copies of this Notice above (or by publication in Assets  |
| Take notice t<br>accompanyin<br>Protection, w<br>the Applicati   | that under Chapter 22-6 of the West Virging documents for a permit to plug and about the respect to the well at the location desion, and the plat have been mailed by remainders) on or before the day of mailing  Well Oper By:  Its:  Address                | ginia Code, the undersigned well andon a well with the Chief of the scribed on the attached Applicate egistered or certified mail or do or delivery to the Chief.  EnerVest Operating,  Senior Vice President 300 Capitol Street, S.  Charleston, WV 253                    | operator proposes to file or has filed this he Office of Oil and Gas, West Virginia Dion and depicted on the attached Form Welivered by hand to the person(s) named L.L.C.  t and General Manager - Appalachia East uite 200   | Notice and Application and epartment of Environmenta W-6. Copies of this Notice above (or by publication in Assets  |
| Take notice t<br>accompanyin<br>Protection, w<br>the Applicati   | that under Chapter 22-6 of the West Virging documents for a permit to plug and about respect to the well at the location desion, and the plat have been mailed by remaining on or before the day of mailing well Ope By:  Its:                                 | ginia Code, the undersigned well andon a well with the Chief of the scribed on the attached Applicate egistered or certified mail or do or delivery to the Chief.  EnerVest Operating,  Senior Vice President 300 Capitol Street, S.  Charleston, WV 253                    | operator proposes to file or has filed this he Office of Oil and Gas, West Virginia Dion and depicted on the attached Form Welivered by hand to the person(s) named L.L.C.  t and General Manager - Appalachia East uite 200   | Notice and Application and epartment of Environmenta W-6. Copies of this Notice above (or by publication in Assets  |
| However, you Take notice t accompanyin Protection, w the Applicati certain circum  | that under Chapter 22-6 of the West Virging documents for a permit to plug and about the respect to the well at the location design, and the plat have been mailed by remained by one on or before the day of mailing.  Well Oper By:  Its:  Address  Telephor | ginia Code, the undersigned well andon a well with the Chief of the scribed on the attached Applicate egistered or certified mail or do or delivery to the Chief.  EnerVest Operating,  Senior Vice President 300 Capitol Street, S.  Charleston, WV 253                    | L.L.C.  t and General Manager - Appalachía East uite 200  101  1001  | Notice and Application and epartment of Environmenta W-6. Copies of this Notice above (or by publication in Assets  |
| However, you Take notice to accompanyin Protection, we the Application certain circum  | worn before me this  | ginia Code, the undersigned well andon a well with the Chief of the scribed on the attached Applicate egistered or certified mail or do or delivery to the Chief.  EnerVest Operating,  Sentor Vic. President 300 Capitol Street, S.  Charleston, WV 253 304-517-1107 (West | L.L.C.  t and General Manager - Appalachía East uite 200  Notary Public  I operator proposes to file or has filed this he Office of Oil and Gas, West Virginia D ion and depicted on the attached Form W elivered by hand to the person(s) named to the person(s) named in the person of t | Notice and Application and epartment of Environmenta W-6. Copies of this Notice above (or by publication in Assets  |
| However, you Take notice to accompanyin Protection, we the Application certain circum  | worn before me this  | ginia Code, the undersigned well andon a well with the Chief of the scribed on the attached Applicate egistered or certified mail or do or delivery to the Chief.  EnerVest Operating,  Sentor Vic. President 300 Capitol Street, S.  Charleston, WV 253 304-517-1107 (West | L.L.C.  It and Seperal Manager - Appalachía East uite 200  Notary Public  OFFICIAL NOTARY  | Notice and Application and epartment of Environmenta W-6. Copies of this Notice above (or by publication in Assets  |
| However, you Take notice t accompanyin Protection, w the Applicati certain circum  | worn before me this  | ginia Code, the undersigned well andon a well with the Chief of the scribed on the attached Applicate egistered or certified mail or do or delivery to the Chief.  EnerVest Operating,  Sentor Vic. President 300 Capitol Street, S.  Charleston, WV 253 304-517-1107 (West | L.L.C.  t and General Manager - Appalachia East uite 200  Notary Public  OFFICIAL NOTARY  BY AND TARY  BY AND | Notice and Application and epartment of Environmenta W-6. Copies of this Notice above (or by publication in Assets  Assets  PUBLIC ST VIRGINIA                  |
| However, you Take notice to accompanyin Protection, we the Application certain circum  Subscribed and every subscr | worn before me this  | ginia Code, the undersigned well and on a well with the Chief of the scribed on the attached Applicate egistered or certified mail or do or delivery to the Chief.  EnerVest Operating,  Senior Vice Presiden 300 Capitol Street, S  Charleston, WV 253  304-517-1107 (West | L.L.C.  It and Seperal Manager - Appalachía East uite 200  Notary Public  OFFICIAL NOTARY  | Notice and Application an epartment of Environmenta W-6. Copies of this Notice above (or by publication is Assets  Assets  PUBLIC ST VIRGINIA ACKSON VANIA AVE. |

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 <a href="mailto:depprivacyoffier@wv.gov">depprivacyoffier@wv.gov</a>.

#### SURFACE OWNER WAIVER

Operator's Well Number

MT-1A

B6CAF9A0032F4C1...

10/16/2015

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

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

NOTE: YOU ARE NOT REQUIRED TO FILE ANY COMMENT.
WHERE TO FILE COMMENTS AND OBTAIN ADDITIONAL INFORMATION:

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

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

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

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

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

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

### **VOLUNTARY STATEMENT OF NO OBJECTION**

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

| I further state that I have no objection to a permit being issued on the |        | nned wo | ork described in these materials, | and I have no |
|--|--------|---------|-----------------------------------|---------------|
| FOR EXECUTION BY A NATURAL PIETC.  | ERSON  |         | FOR EXECUTION BY A C              | ORPORATION,   |
|  |        |         | EIP West Virginia, LLC            |               |
|  | _ Date | Name    | -Nick-Dilks                       |               |
| Signature  |        | Ву      | TAICK DIIKS                       |               |
|  |        | Its     | -Manager                          | Date          |
|  |        |         | wanagei                           |               |
|  |        |         | Signature                         | Date          |
|  |        |         |                                   | 7/27/2015     |

WW-4B

API No. 47-047-01997

Farm Name Central WV Energy Co.

Well No. MT-1A

### INSTRUCTIONS TO COAL OPERATORS OWNERS AND LESSEE

The well operator named on the obverse side of WW-4 (B) is about to abandon the well described in the enclosed materials and will commence the work of plugging and abandoning said well on the date the inspector is notified. Which date shall not be less then five days after the day on which this notice and application so mailed is received, or in due course should be received by the Department of Environmental Protection Office of Oil & Gas.

This notice and application is given to you in order that your respective representatives may be present at the plugging and filling of said well. You are further notified that whether you are represented or not the operator will proceed to plug and fill said well in the manner required by Section 24, Article 6, Chapter 22 of the Code and given in detail on obverse side of this application.

NOTE: If you wish this well to be plugged according to 22-6-24(d) then as per Regulation 35CSR4-13.9 you must complete and return to this office on form OB-16 "Request by Coal Operator, Owner, or Lessee for plugging" prior to the issuance of this plugging permit.

|  | WAIVER  |
|--|---|
| has examined this proposed plugging work | / owner X / lessee / of the coal under this well location corder. The undersigned has no objection to the work proposed to be operator has complied with all applicable requirements of the West has. |
| Date:                                    | Alpha Natural RESOURCES  By: A. Scott Knewty  Its V.P. Laverd Gas   |



### EnerVest Operating, L.L.C.

**Eastern Division** 

1064 Old Route 33, Weston, WV 26452-7722 Phone (304) 517-1102 Fax (304) 517-1107

SENT VIA UPS DELIVERY

September 22, 2015

Mr. Jeff McLaughlin WVDEP Office of Oil & Gas 601 57<sup>th</sup> St. SE Charleston, WV 25304

Re: Plugging Applications 047-01997 MT-1A 047-01998 MT-1B 047-01999 MT1C

Jeff:

Please find enclosed the fully executed permit applications for the plugging of these wells.

As we discussed, these applications have Field Inspector approvals, signed waivers by the coal company approving the procedures and signed waivers by the surface owners.

This is a time sensitive project for both the surface owners and the coal owners so your prompt attention to issuing permits would be **greatly appreciated**.

We remain available should you have any questions regarding the enclosed. p 2 4 2015

Sincerely,

EnerVest Operating, L.L.C.

WV Densitment of Environmental Protection

Jerry L. Jackson

Senior District Landman

Enclosures

cc: File



EnerVest Operating, L.L.C.

Eastern Division

1064 Old Route 33, Weston, WV 26452-7722 Phone (304) 517-1102 Fax (304) 517-1107

VIA UPS DELIVERY

July 22, 2015

Central WV Energy Company 300 Running Right Way Julian, WV 25529

Re:

Plugging Permits MT-Wells 1A; 1B & 1C

API Nos. 47-047-01997; 47-047-01998; 47-047-01999

Browns Creek District, McDowell County, WV

Dear Coal Owner/Operator:

Pursuant to Chapter 22 of the West Virginia Code, enclosed please find copies of the following documents for the proposed plugging of each of the subject wells:

Form WW-7 Well Location Form: GPS

oll and Gas

- Form WW-9 Construction and Reclamation Plan and Site Registration
  Application

  St P 2 4 2015
- Form WW-4A Notice of Application to Plug and Abandon a Well
- Form WW-4B Application for a Permit to Plug and Abandon of appartment of
- Coal Owner/Lessee Waiver (2 copies)

Environmental Projection

These applications are being filed by EnerVest with the Administrator of the Office of Oil and Gas of the West Virginia Department of Environmental Protection. If you have no objections to the proposed process for the plugging of these wells, please sign the Voluntary Statement of No Objection on the Coal Owner/Lessee Waiver for each well and return one copy to our office in the enclosed envelope.

Comments as to the location construction or the proposed well work may, pursuant to West Virginia Code, be filed by you with the said Administrator within five (5) days after the Application is filed by EnerVest. The address of the Administrator for the purpose of filing comments and obtaining additional information is:

Permit Administrator
West Virginia Division of Environmental Protection
Office of Oil and Gas
601 57<sup>th</sup> Street, SE
Charleston, WV 25304

Persons who may file such comments are: (i) the owners of record of the surface of the tract on which the well is or is to be located, and (ii) the owners of record of the surface tract or tracts overlying the oil and gas leasehold being developed by the proposed well work, if such surface tract is to be utilized for road or other land disturbance described in the Erosion and Sediment Control Plan referred to above; and (iii) except as and when not required by the laws of West Virginia and the rules of the West Virginia Department of Mines, any coal operator operating coal seams beneath the oil and gas leasehold upon which said well is or is to be located as well as the owner(s) and lessee(s), if any of such coal seams.

Sincerely,

EnerVest Operating, L.L.C.

Jerry L. Jackson

Senior District Landman

**Enclosures** 

cc: File



EnerVest Operating, L.L.C.

Eastern Division

1064 Old Route 33, Weston, WV 26452-7722 Phone (304) 517-1102 Fax (304) 517-1107

VIA UPS DELIVERY

July 22, 2015

Ecosystem Investment Partners 2002 Clipper Park Road, Suite 201 Baltimore, MD 21211

Re:

Plugging Permits MT-Wells 1A; 1B & 1C

API Nos. 47-047-01997; 47-047-01998; 47-047-01999

Browns Creek District, McDowell County, WV

Dear Surface Owner:

Pursuant to Chapter 22 of the West Virginia Code, enclosed please find copies of the following documents for the proposed plugging of each of the subject wells:

Office of Oil and Gas

- Form WW-7 Well Location Form: GPS
- Form WW-9 Construction and Reclamation Plan and Site Registration Plan Application
- Form WW-4A Notice of Application to Plug and Abandon a Well/V Department of
- Form WW-4B Application for a Permit to Plug and Abandon Avironmental Protection
- Surface Owner Waiver (2 copies)

These applications are being filed by EnerVest with the Administrator of the Office of Oil and Gas of the West Virginia Department of Environmental Protection. If you have no objections to the proposed process for the plugging of this well, please sign the Voluntary Statement of No Objection on the waivers for each well and return one copy of each to our office in the enclosed envelope.

Comments as to the location construction or the proposed well work may, pursuant to West Virginia Code, be filed by you with the said Administrator within five (5) days after the Application is filed by EnerVest. The address of the Administrator for the purpose of filing comments and obtaining additional information is:

Permit Administrator
West Virginia Division of Environmental Protection
Office of Oil and Gas
601 57<sup>th</sup> Street, SE
Charleston, WV 25304

Persons who may file such comments are: (i) the owners of record of the surface of the tract on which the well is or is to be located, and (ii) the owners of record of the surface tract or tracts overlying the oil and gas leasehold being developed by the proposed well work, if such surface tract is to be utilized for road or other land disturbance described in the Erosion and Sediment Control Plan referred to above; and (iii) except as and when not required by the laws of West Virginia and the rules of the West Virginia Department of Mines, any coal operator operating coal seams beneath the oil and gas leasehold upon which said well is or is to be located as well as the owner(s) and lessee(s), if any of such coal seams.

Sincerely,

EnerVest Operating, L.L.C.

Jerry L. Jackson

Senior District Landman

**Enclosures** 

cc: File

RECTIVED states of Oil and Gas

SEP 2 4 2015

VoV Decorrage Lof Environmental Protection WW-4B Rev. 2/01

| 1) Date | е     |       |           | 20      |  |
|---------|-------|-------|-----------|---------|--|
| 2) Ope: | rator | 's    |           |         |  |
| Wel:    | l No. | MT-1A |           |         |  |
| 3) API  | Well  | No.   | 47 - 047- | - 01997 |  |

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

| 5) | Location: Ele  |                                | Watershed Tug  |
|----|----------------|--------------------------------|--|
|    | Dis            | Browns Creek                   | County McDowell Quadrangle Davy (7.5)                      |
| 5) | Well Operator  | EnerVest Operating, L.L.C.     | 7) Designated Agent James D. McKinney                      |
|    | Address        | 300 Capitol Street, Suite 200  | AddressSame  |
|    |                | Charleston, WV 25301           | -  |
| )  | Oil and Gas Ir | nspector to be notified ennedy | 9) Plugging Contractor Name R.L. Wharton Enterprises, Ltd. |
|    | Address P.O    |                                | Address 261 Shiloh Lane                                    |
|    | Nimi           | itz, WV 25978                  | Buckhannon, WV 26201                                       |
|    | Work Order: 1  |                                | nner of plugging this well is as follows:                  |
| ;  |                |                                | SERVA2015  WV Department of Environmental Protect          |

DATE: 02/02/2006 API#:: 4704701997C

# State of West Virginia Division of Environmental Production Section of Oil and Gas

Well Operator's Report of Well Work

| Farm Name Central West Virginia Energy Company   |                                  | Operat      | or Well No.: MT-   | IA   |
|--|----------------------------------|-------------|--------------------|--|
| LOCATION: Elevation: 1552  |                                  | Quadra      | ngle: Davy, WV     |  |
| District: Browns Creek   |                                  | County: McI | Dowell             |  |
| Latitude: 1250 Feet South of 37  | Deg. 47                          | Min. 30     | Sec.               | 14   |
| Longitude: 7170 Feet West of 81  | Deg. 27                          | Min. 30     | Sec.               |  |
| Company:   |                                  |             |                    |  |
| Penn Virginia Oil & Gas Corporation  | Casing and                       | Used in     | Left in well       | Cement fill  |
| 2.7  | Tubing                           | drilling    | Zen in nein        | up Cu. Ft.   |
| Address: 2550 East Stone Drive, Suite 110  | 9518                             | 88          | 88                 | 24   |
| Kingsport, TN 37660  | 7 "                              | 480         | 480                | 130  |
| Agent: Jim Burns   | 1                                |             | 400                | 130  |
| Inspector: Rul Hatfield  |                                  |             | 1                  |  |
| Date Permit Issued: 12/28/2004   |                                  | -           |                    |  |
| Date Well Work Commenced: 2 - 28 - 05  | 1,5                              |             |                    | +  |
| Date Well Work Completed: 3-3-05   | -                                |             |                    |  |
| Verbal Plugging;   |                                  |             |                    |  |
| Date Permission granted on:  |                                  |             |                    |  |
| Rotary X Cable Rig   |                                  |             |                    |  |
| Total Depth (feet): 54 8   |                                  |             |                    | 1  |
| Fresh Water Depth (ft):  |                                  |             |                    | BECEIVED   |
| Nows Referred  |                                  |             |                    | PEGEL and  |
| Sall Water Depth (ft):   |                                  |             | - Qn               | The state of the s |
| 2/4  |                                  |             |                    | SEP # 4 201  |
| NA   | -                                |             |                    |  |
| Is coal being mined in area (N/Y)?   |                                  |             |                    |  |
| Coal Depths (ft):  |                                  |             | 1                  | ur ( apartine<br>Terrangal P   |
|  |                                  |             | -                  | - so worldir   |
|  |                                  |             | EIT                |  |
| OPEN FLOW DATA   |                                  |             |                    | T.   |
| OPEN PEOW BATA   |                                  |             |                    |  |
| Producing formation No production from this well   |                                  | Pay         | zone depth (ft)    |  |
|  | : Initial open flow              | В           | bl/d               |  |
| Final open flow MCF/d Fin  | al open flow                     | Bbl/d       |                    |  |
| Time of open flow between initial and final te   | sts:                             | Hours       |                    |  |
| Static rock pressure psig (surface p   | ressure) after                   | Hours       |                    |  |
| Second producing formation   |                                  | Pay zone    | death (ft)         |  |
|  | I: Initial open flow             | -           | Bbl/d              |  |
|  | nal open flow                    | Bbl/d       |                    |  |
| Time of open flow between initial and final te   |                                  | Hours       |                    |  |
| Static rock pressure psig (surface pre   |                                  | Hours       |                    |  |
| NOTE: ON BACK OF THIS FORM PUT THE FOLLO INTERVALS, FRACTURING OR STIMULATING, PH WHICH IS A SYSTEMATIC DETAILED GEOLOGICA COAL ENCOUNTERED BY THE WELLBORE. | WING: 1). DETAI<br>YSICAL CHANE, | LS OF PERFO | DRATED<br>WELL LOG | i .  |
|  |                                  |             |                    |  |
| Signed:  |                                  |             |                    |  |
| By:  |                                  |             |                    |  |

Date:

ME

FORM WR-35R (REVERSE)

DETAILS OF PERFORATIONS, FRACTURING, OR PHYSICAL CHANGE, ETC.

| FORMATIONS      | TOP     | воттом      | REMARKS    |                               |
|-----------------|---------|-------------|------------|-------------------------------|
|                 |         |             | Derinted   | well                          |
| Sand + sh + h e | 9       | 861         |            |                               |
| Poch 4 con1     | a       | The MI.     | - IC Well  | Office we want Gas            |
| POCA 3 COAL     | 941' M. | Asmed Depli | h - TUIN H | orizontal in 17 bed 1818 of T |
| 1               | an      | The MT      | - 18 Well  | Environment of                |



47016977



Select County. (047) McDowell ▼ Select datatypes: (Check All) Enter Permit #: 01997 V Location Production Plugging V Owner/Completion Stratgraphy Sample Get Data Reset / Pay/Show/Water / Logs Btm Hole Loc Table Descriptions
County Code Translations
Permit Numbering Series
Usage Notes
Contact Information
Description Disclaimer WGES Main "Pureling-Plus" New

WV Geological & Economic Survey

Well: County = 47 Permit = 01997

Report Time: Friday, July 17, 2015 4:19:39 PM

There is no Bottom Hole Location data for this well

Owner Information:

API CMP\_DT SUFFIX STATUS SURFACE\_OWNER WELL\_NUM CO\_NUM

4704701997 3/3/2005 Dvid Orgni Loc Completed Central VW Energy Co

MTT-00A, MT-1A LEASE LEASE\_NUM MINERAL\_OWN PROP\_VD PROP\_TRGT\_FM TFM\_EST\_P Central WV Energy Co Penn Virginia Oil & Gas Corp.

Completion Information:

API CMP\_DT SPUD\_DT ELEV DATUM FIELD DEEPEST\_FM DEEPEST\_FMT INITIAL\_CLASS FINAL\_CLASS TYPE RIG CMP\_MTHO TVD TMD NEW\_FTG G\_BEF G\_AFT O\_BI 4704701997 3/3/2005 -/- 1552 Ground Level Unnamed Pocahontas Fm Pocahontas No.3 coal Development Well Unsuccessful Methane (CBM) Rotary CBM Mitth 548 548

There is no Pay data for this well

There is no Production Gas data for this well

There is no Production Oil data for this well \*\* some operators may have reported NGL under Oil

There is no Production NGL data for this well \*\* some operators may have reported NGL under Oil

There is no Wireline (E-Log) data for this well

There is no Plugging data for this well

There is no Sample data for this well

RESERVED. Office of Dove and Gas SEP X 4 1015 WV Den nent of Protection

47019977



| Select County.  | (047) McDowell | * | Select datatypes:  | Check All)   |                   |
|-----------------|----------------|---|--------------------|--------------|-------------------|
| Enter Permit #: | 01997          |   | Location           | ✓ Production | <b>✓</b> Plugging |
|                 | * face         |   | ✓ Owner/Completion | Strattgraphy | ✓ Sample          |
| Get Data        | Reset          |   | Pay/Show/Water     | Logs         | J Btm Hole Loc    |

Table Descriptions
County Code Translations
Permit Numbering Series
Usage Notes
Contact Information

WV Geological & Economic Survey

Well: County = 47 Permit = 01997

Report Time: Monday, June 08, 2015 2:25:25 PM

| County | C

There is no Bottom Hole Location data for this well

Owner Information:

API CMP\_DT SUFFIX STATUS SURFACE\_OWNER 4704701997 3/3/2005 Dvid Orgnl Loc Completed Central WV Energy Co WELL\_NUM CO\_NUM MT1-00A\_MT-1A LEASE LEASE\_NUM MINERAL\_OWN PROP\_VD PROP\_TRGT\_FM TFM\_EST\_P Central W Energy Co Penn Virginia Oil & Gas Corp.

Completion Information:

API CMP\_DT SPUD\_DT ELEV DATUM FIELD DEEPEST\_FM DEEPEST\_FMT INITIAL\_CLASS FINAL\_CLASS TYPE RIG CMP\_MTH
4704701997 3/3/2005 +/- 1552 Ground Level Unnamed Pocahontas Fm Pocahon RIG CMP\_MTHD TVD TMD NEW\_FTG G\_BEF G\_AFT O\_BI Rotary CBM Mitt 548 548

There is no Pay data for this well

There is no Production Gas data for this well

There is no Production Oil data for this well \*\* some operators may have reported NGL under Oil

There is no Production NGL data for this well \*\* some operators may have reported NGL under Oil

Stratigraphy Information:

API SUFFIX FM FM\_QUALITY DEPTH\_TOP DEPTH\_QUALITY THICKNESS THICKNESS\_QUALITY ELEV DATUM 4704701997 Dvtd Orgnl Loc Pocahontas No.4 coal CBM. Drillers Pick 561 Deviated Drig Deviated Drig 1552 Ground L 4704701997 Dvtd Orgnl Loc Pocahontas No.3 coal CBM. Drillers Pick 941 Deviated Drig Deviated Drig 552 Ground L

There is no Wireline (E-Log) data for this well

There is no Plugging data for this well

There is no Sample data for this well

Office of SEP 2 4 1015 Environmental Protection

### MT-1A Procedure:

- 1. Prep MT-1A location.
- 2. Gravity feed FW or CBM Production water into well, up to a maximum of 150% of total hole volume (57 BBIs).
- 3. MIRU Service Rig.
- 4. RIH w/ 6-1/2" tri-cone bit to 450' on 2-3/8" 4.7 ppf EUE tbg.
- 5. TOOH w/ 2-3/8" tbg.
- 6. RIH w/ 7" CIBP, followed by 450' of 2-3/8" 4.7 ppf tbg.
- 7. Set CIBP @ 450' GL.
- 8. MIRU Cementers
- 9. Break circulation and set 100' cement plug F/ 450' T/ 350'
- 10. TOOH to set bottom of tubing at 100' GL.
- 11. Break circulation and set 100' cement plug F/ 100' T/ GL
- 12. Erect a monument with API number attached.
- 13. Reclaim location

### MT-1B Procedure:

- Prep MT-1B location.
- Gravity feed FW or CBM Production water into well, up to a maximum of 150% of total hole volume (290 BBIs).
- 3. MIRU Service Rig.
- 4. RIH w/ 6-1/2" tri-cone bit to 625' on 2-3/8" 4.7 ppf EUE tbg.
- TOOH w/ 2-3/8" tbg.
- 6. RIH w/ 7" CIBP, followed by 625' of 2-3/8" 4.7 ppf tbg.
- 7. Set CIBP @ 625' GL.
- 8. MIRU Cementers
- Break circulation and set 100' cement plug F/ 625' T/ 525'
- 10. TOOH to set bottom of tubing at 100' GL.
- 11. Break circulation and set 100' cement plug F/ 100' T/ GL
- 12. Erect a monument with API number attached.
- 13. Reclaim location

sell

## MT-1A / MT-1B / MT-1C API# 47-047- 01997/ 01998/ 01999 McDowell County, WV

MT-1A Well Data

Casing: 7" set at 480' GL (19 BBIs)

Tubing: N/A

6-1/4" Open Hole: 480' GL to 560' MD (3 BBls) to KOP

560' GL to 974' MD (16 Bbls) to MT-1C

MT-1B Well Data

Casing: 7" set at 664' GL (27 Bbls)
Tubing: 2-7/8" tbg set at 733' GL
6-1/4" Open Hole: 664' GL to 812' GL (6 Bbls)

And 560' GL in A well to 896' MD from A (13 Bbls) to MT-1B

4-1/2" Open Hole: 896'MD from A to 8,251' MD from A (145 BBIs)

MT-1C Well Data

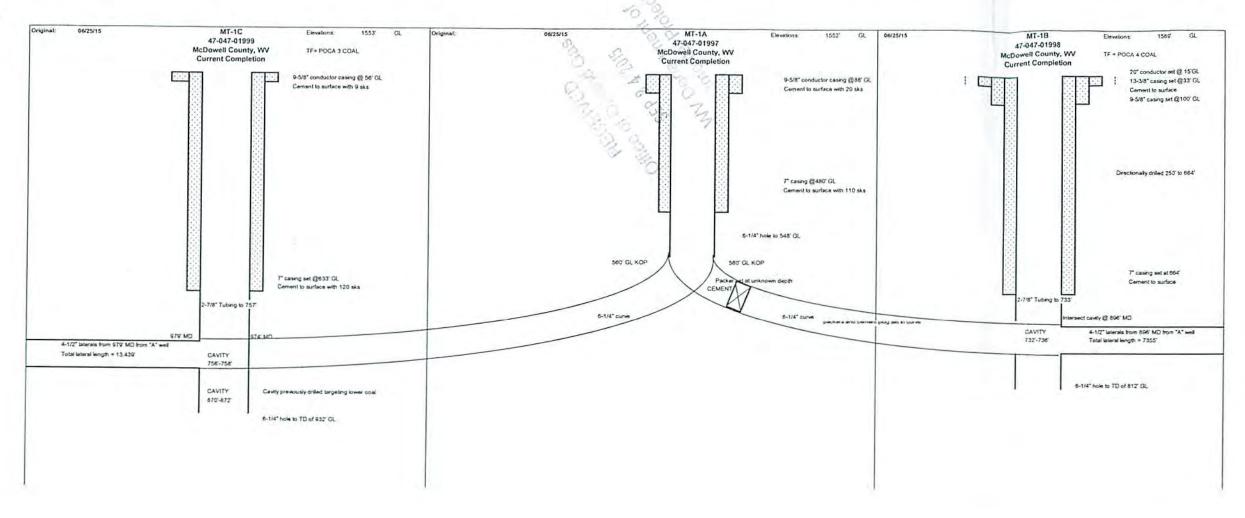
Casing: 7" set at 633' GL (26 Bbls)
Tubing: 2-7/8" tbg set at 757' GL
6-1/4" Open Hole: 633' GL to 932' GL (11 Bbls)

4-1/2" Open Hole: 979' MD from A to 14,418' MD from A (264 BBIs)

### MT-1C Procedure:

- 1. Prep MT-1C location.
- Gravity feed FW or CBM Production water into well, up to a maximum of 150% of total hole volume (455 BBIs).
- 3. MIRU Service Rig.
- 4. RIH w/ 6-1/2" tri-cone bit to 600' on 2-3/8" 4.7 ppf EUE tbg.
- TOOH w/ 2-3/8" tbg.
- 6. RIH w/ 7" CIBP, followed by 600' of 2-3/8" 4.7 ppf tbg.
- 7. Set CIBP @ 600' GL.
- 8. MIRU Cementers
- 9. Break circulation and set 100' cement plug F/ 600' T/ 500'
- 10. TOOH to set bottom of tubing at 100' GL.
- 11. Break circulation and set 100' cement plug F/ 100' T/ GL
- 12. Erect a monument with API number attached.
- 13. Reclaim location

Ste





WW-9 (2/15)

| API Number 47 - | 047     | - 01997 |
|-----------------|---------|---------|
| Operator's      | Well No | MT-1A   |

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

### FLUIDS/ CUTTINGS DISPOSAL & RECLAMATION PLAN

|   | OP Code 309999   |
|---|--|
| Watershed (HUC 10) Tug  |  |
| Do you anticipate using more than 5,000 bbls of wa  |  |
| Will a pit be used? Yes No  |  |
| If so, please describe anticipated pit waste  |  |
| Will a synthetic liner be used in the pit? Y  | Yes No If so, what ml.?  |
| Proposed Disposal Method For Treated Pi   | it Wastes:   |
| Reuse (at API Number_<br>Off Site Disposal (Supp  | (UIC Permit Number)  oly form WW-9 for disposal location)  TASK  |
| Will closed loop system be used? If so, describe: _   |  |
| Drilling medium anticipated for this well (vertical a   | and horizontal)? Air, freshwater, oil based, etc.  |
| -If oil based, what type? Synthetic, petrol   | eum, etc   |
| Additives to be used in drilling medium?  |  |
| Drill cuttings disposal method? Leave in pit, landf   | Ill, removed offsite, etc  |
|   | dium will be used? (cement, lime, sawdust)   |
|   | Care Care  |
| West Virginia solid waste facility. The notice shall  | of Oil and Gas of any load of drill cuttings or associated waste rejected at any<br>be provided within 24 hours of rejection and the permittee shall also disclose |
| on August 1, 2005, by the Office of Oil and Gas of provisions of the permit are enforceable by law. law or regulation can lead to enforcement action.  I certify under penalty of law that I hav application form and all attachments thereto and obtaining the information, I believe that the info penalties for submitting false information, including Company Official Signature | his his  |
| Company Official (Typed Name) James D. McKii  | nnety  |
| Company Official Title Senior Vice President and  | General Manager - Appalachia East Assets   |
| Subscribed and sworn before me this 22 mg  My commission expires May 3, 201   | Notary Public SEAL NOTARY PUBLIC STATE OF WEST VIBRIUM   |

| Proposed Revegetation Treatm   | nent: Acres Disturbed 2  | .00 Prevegetation  | 1 рН 6.5                     |
|--|--|--|------------------------------|
|  | Test Tons/acre or to corre   |  |                              |
| Fertilizer type 10-2   |  |  |                              |
| Fertilizer amount 50   |  | lbs/acre   |                              |
| Mulch Hay or Stra  |  | Tons/acre  |                              |
|  |  |  |                              |
|  |  | Seed Mixtures  |                              |
| Ter  | nporary  | Per  | manent                       |
| Seed Type  | lbs/acre   | Seed Type  | lbs/acre                     |
| Orchard Grass  | 25   | Orchard Grass  | 25                           |
| Birdsfoot Trefoil  | 15   | Birdsfoot Trefoil  | 15                           |
| 1 " 01   | 10   | Ladina Claver  | 10                           |
| Attach: Drawing(s) of road, location, provided) Photocopied section of involv                                    | pit and proposed area for<br>ed 7.5' topographic sheet                     |  |                              |
| Drawing(s) of road, location, provided)  Photocopied section of involv  See attached GPS                         | pit and proposed area for<br>ed 7.5' topographic sheet.<br>Well Location F | land application (unless engineered plan<br>Form: GPS WW-7 |                              |
| Attach:  | pit and proposed area for<br>ed 7.5' topographic sheet                     | land application (unless engineered plan<br>Form: GPS WW-7 |                              |
| Attach: Drawing(s) of road, location, provided) Photocopied section of involv See attached GPS                   | pit and proposed area for<br>ed 7.5' topographic sheet.<br>Well Location F | land application (unless engineered plan<br>Form: GPS WW-7 | s including this info have b |
| Attach: Drawing(s) of road, location, provided) Photocopied section of involv See attached GPS Plan Approved by: | pit and proposed area for<br>ed 7.5' topographic sheet.<br>Well Location F | land application (unless engineered plan<br>Form: GPS WW-7 |                              |
| Attach: Drawing(s) of road, location, provided) Photocopied section of involv See attached GPS Plan Approved by: | pit and proposed area for<br>ed 7.5' topographic sheet.<br>Well Location F | land application (unless engineered plan<br>Form: GPS WW-7 | s including this info have b |
| Attach: Drawing(s) of road, location, provided) Photocopied section of involv See attached GPS Plan Approved by: | pit and proposed area for<br>ed 7.5' topographic sheet.<br>Well Location F | land application (unless engineered plan<br>Form: GPS WW-7 | s including this info have b |

ATTICHMENTS WW-9 PROPOSED WELLS MTI-A, B,C PROPOSED ACCESS

NOTES:

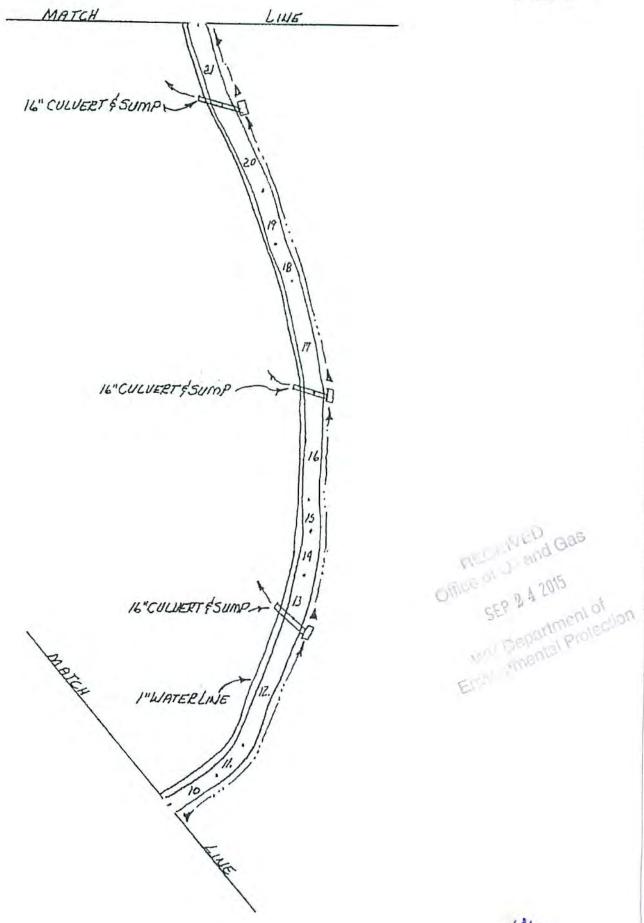
1. LOCATE EXISTING UTILITIES BEFORE CONSTRUCTION.

2, SEED DISTURBED AREAS AS SOONAS POSSIBLE.

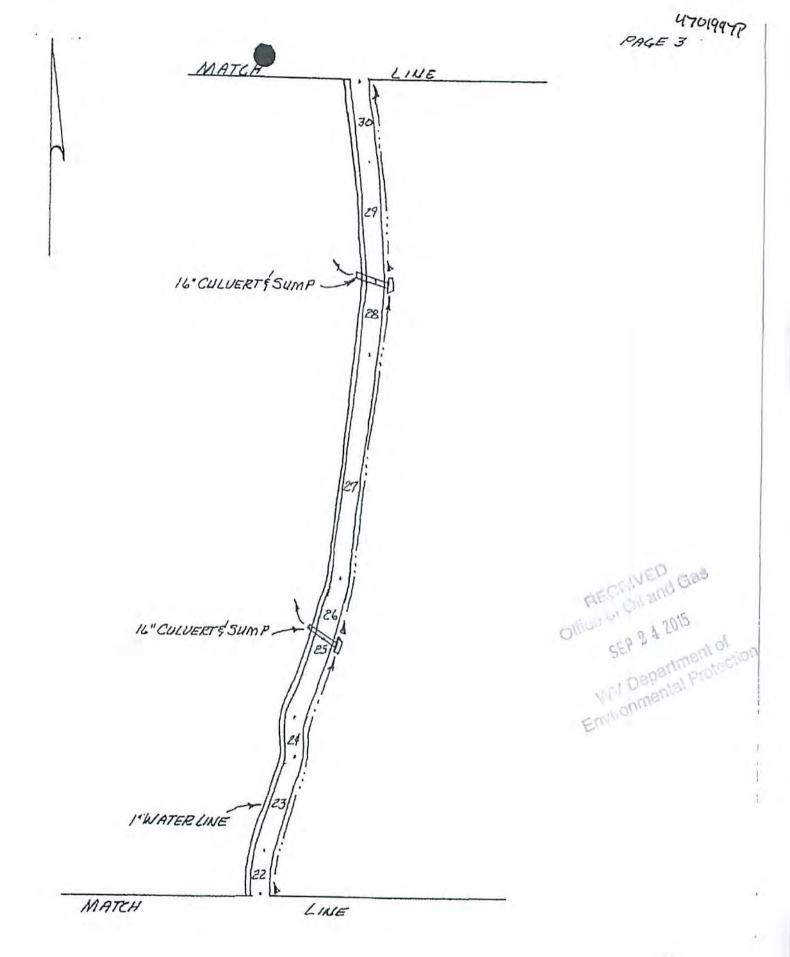
3. USECAUTION CONCERN I" WATER SUPPLY LINE,

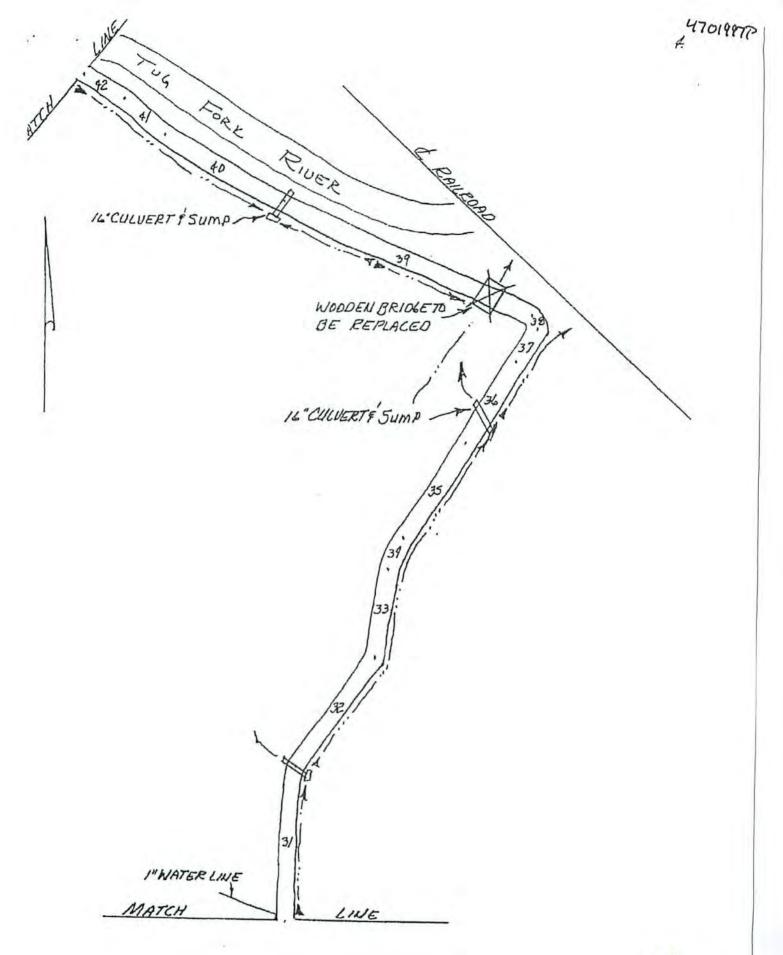
16"CULVERTESUMP 24 CULUERTS "WATER LINE 16"CULVERT & SUMP

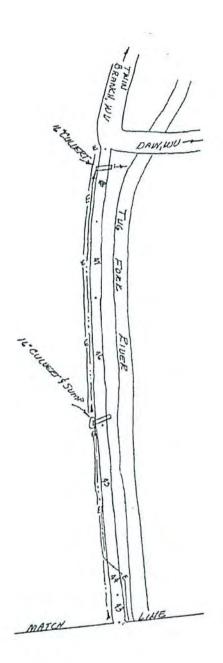
LOCATION NTI-A,B,C. 1



Side







Office of SEP 2 4 2015

SEP 2 4 2015

Will Department of Protection

Environmental Protection

SAS

ATTACHMENT WW-9 PROPOSED WELL NO. MT1A,B,C

| COURSE | BEARING | DISTANCE | 1 | PERCENT | GRADE                                      |
|--------|---------|----------|---|---------|--|
| 1.     | N58E    | 100'     |   | 00%     |  |
| 2.     | N57E    | 300      |   | -08     |  |
| 3.     | N68E    | 100      |   | -05     |  |
| 4.     | N42E    | 330      |   | -08     |  |
| 5.     | N32E    | 120      |   | -08     |  |
| 6.     | N60E    | 156      |   | -08     |  |
| 7.     | N55E    | 21       |   | 00      |  |
| 8.     | N38E    | 200      |   | -03     |  |
| 9.     | N49E    | 270      |   | 00      |  |
| 10.    | N55E    | 135      |   | +01     |  |
| 11.    | N40E    | 90       |   | -02     |  |
| 12.    | N19E    | 300      |   | -05     |  |
| 13.    | N12E    | 100      |   | -03     |  |
| 14.    | NO6E    | 100      |   | -05     |  |
| 15.    | N09W    | 66       |   | 00      |  |
| 16.    | NO1E    | 240      |   | -05     |  |
| 17.    | N14W    | 252      |   | -04     |  |
| 18.    | N25W    | 90       |   | -02     |  |
| 19.    | N17W    | 120      |   | -06     |  |
| 20.    | N29W    | 210      |   | -03     |  |
| 21.    | N20W    | 180      |   | -02     | Office and Gas                             |
| 22.    | NO3E    | 100      |   | -03     | Lee Stra                                   |
| 23.    | N16E    | 220      |   | -03     | SEP 8 4 2015                               |
| 24.    | N02W    | 90       |   | -01     | 0 8 4 2013                                 |
| 25.    | N19E    | 174      |   | -05     | SEL  |
| 26.    | N12E    | 150      |   | -06     | TOTAL TRANSPORT                            |
| 27.    | N05E    | 500      |   | -03     | WV Propartment of Environmental Protection |
| 28.    | NO4E    | 160      |   | -05     | - AUGUSTA                                  |
| 29.    | N05W    | 258      |   | -05     | Elli                                       |
| 30.    | N10W    | 180      |   | -08     |  |
| 31.    | N01E    | 350      |   | -08     |  |
| 32.    | N34E    | 300      |   | -05     |  |
| 33.    | N07E    | 200      |   | -11     |  |
| 34.    | N23E    | 75       |   | -06     |  |
| 35.    | N31E    | 250      |   | -07     |  |
| 36.    | N29E    | 210      |   | -15     |  |
| 37.    | N30E    | 90       |   | -05     |  |

SE

| 38. | N32W | 30  | -03 |
|-----|------|-----|-----|
| 39. | N68W | 600 | 00  |
| 40. | N64W | 300 | +03 |
| 41. | N50W | 120 | +05 |
| 42. | N61W | 105 | +02 |
| 43. | N49W | 100 | +01 |
| 44. | N54W | 100 | 00  |
| 45. | N50W | 500 | -05 |
| 46. | N49W | 450 | 00  |
| 47. | N45W | 270 | 00  |
| 48. | N38W | 260 | -03 |

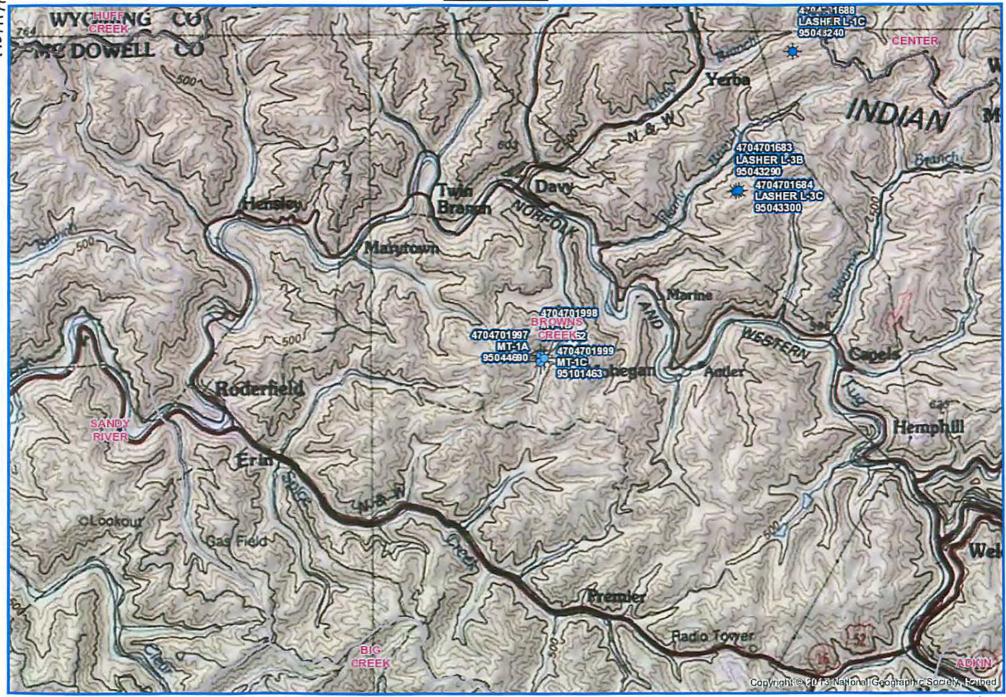
Office of Oil and Gas

SEP 2 4 2015

WV Department of
Environmental Protection



## MT WELLS





Any stached map of at effects only the approximate location of the depicted natural gas under oil building including several points of the depicted natural gas under oil building including which, property and property incs, lease and lease teaching limits, etc.). Further Operating (1.0. Government the sections of the operating 1.1. Covernment of the section of the Operating 1.1. Covernment of the operation of the operating 1.1. Covernment of the operating 1.

Author: JLJ

Date: 6/9/2015





WW-7 8-30-06



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

## WELL LOCATION FORM: GPS

| <sub>API:</sub> 47-047-01997  | WELL NO.: MT-1A  |
|---|--|
| FARM NAME: Central WV Energy  |  |
| RESPONSIBLE PARTY NAME: Jerry Ja  | ackson   |
|   | DISTRICT: Browns Creek   |
| QUADRANGLE: Davy (7.5) Welch  | (15)   |
| SURFACE OWNER: Ecosystem Inve   | estment Partners   |
| ROYALTY OWNER: Central WV En  | ergy Co.   |
| 4145543.1   |  |
| UTM GPS NORTHING: 442549.1  | GPS ELEVATION: 1552  |
|   | a A 7/1/3  |
| The Responsible Party named above has chosen to preparing a new well location plat for a plugging above well. The Office of Oil and Gas will not act the following requirements:  1. Datum: NAD 1983, Zone: 17 North, Cheight above mean sea level (MSL) – 12.  2. Accuracy to Datum – 3.05 meters  3. Data Collection Method: Survey grade GPS: Post Processed Difference. | o submit GPS coordinates in lieu of permit or assigned API number on the cept GPS coordinates that do not meet Coordinate Units: meters, Altitude: meters.                         |
| The Responsible Party named above has chosen to preparing a new well location plat for a plugging above well. The Office of Oil and Gas will not act the following requirements:  1. Datum: NAD 1983, Zone: 17 North, Cheight above mean sea level (MSL) – 12.  2. Accuracy to Datum – 3.05 meters  3. Data Collection Method: Survey grade GPS: Post Processed Different   | o submit GPS coordinates in lieu of permit or assigned API number on the cept GPS coordinates that do not meet Coordinate Units: meters, Altitude: meters.                         |
| The Responsible Party named above has chosen to preparing a new well location plat for a plugging above well. The Office of Oil and Gas will not act the following requirements:  1. Datum: NAD 1983, Zone: 17 North, Cheight above mean sea level (MSL) – 12.  2. Accuracy to Datum – 3.05 meters  3. Data Collection Method: Survey grade GPS: Post Processed Difference. | o submit GPS coordinates in lieu of permit or assigned API number on the cept GPS coordinates that do not meet Coordinate Units: meters, Altitude: meters.  erential  bifferential |