



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

July 14, 2014

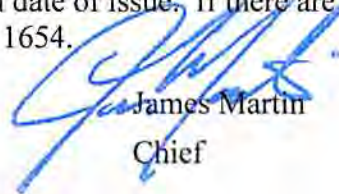
WELL WORK PLUGGING PERMIT

Plugging

This permit, API Well Number: 47-1300707, issued to PDC MOUNTAINEER LLC, 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 penalties 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
Chief

Operator's Well No: 2-197
Farm Name: LAHAIE, RAYMOND R. & MADE
API Well Number: 47-1300707
Permit Type: Plugging
Date Issued: 07/14/2014

Promoting a healthy environment.

07/18/2014

PERMIT CONDITIONS

West Virginia Code § 22-6-11 allows the Office of Oil and Gas to place specific conditions upon this permit. Permit conditions have the same effect as law. Failure to adhere to the specified permit conditions may result in enforcement action.

CONDITIONS

1. All pits must be lined with a minimum of 20 mil thickness synthetic liner.
2. In the event of an accident or explosion causing loss of life or serious personal injury in or about the well or while working on the well, the well operator or its contractor shall give notice, stating the particulars of the accident or explosion, to the oil and gas inspector and the Chief within twenty-four (24) hours.
3. Well work activities shall not constitute a hazard to the safety of persons.
4. This well is under a consent order and must be plugged within two years of the date of issuance of this permit.

1) Date April 14, 2014
2) Operator's
Well No. T.S. Cunningham #2
3) API Well No. 47-013 - 00707

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 XX / Liquid injection ___ / Waste disposal ___ /
(If "Gas, Production XX or Underground storage ___) Deep ___ / Shallow ___

5) Location: Elevation 271 m (890 ft.) Watershed Unnamed Tributary of Left Fork
District Sherman 4 County Calhoun 13 Quadrangle Millstone 7.5' 474

6) Well Operator PDC Mountaineer, LLC 7) Designated Agent Steven P. Johnson
Address 120 Genesis Blvd Address 120 Genesis Blvd.
Bridgeport, WV 26330 Bridgeport, WV 26330

8) Oil and Gas Inspector to be notified Name Ed Gainer 9) Plugging Contractor Name TBD
Address P.O. Box 821 Address _____
Spencer, WV 25276

10) Work Order: The work order for the manner of plugging this well is as follows:

- Pull tubing. Check TD. Load hole with Gel. Set cement plugs from 2048' to 1940'.
- Find free point and pull as much casing as possible. Set plug from 50' below to 50' above sever point.
- Set Cement plug from 1925' to 1725'.
- If possible, sever and remove 8 5/8" at free point.
- Set Cement plug 50' above the sever point. —
- Set Cement plug from from 925' - 825'
- If possible remove 10". Set plug from 200' to surface.
- Install monument.

See Changes on separate sheet

WELL RECORD SUGGESTS 10" WAS NOT LEFT IN WELL.

4" 1/2 wooden conductor at surface.

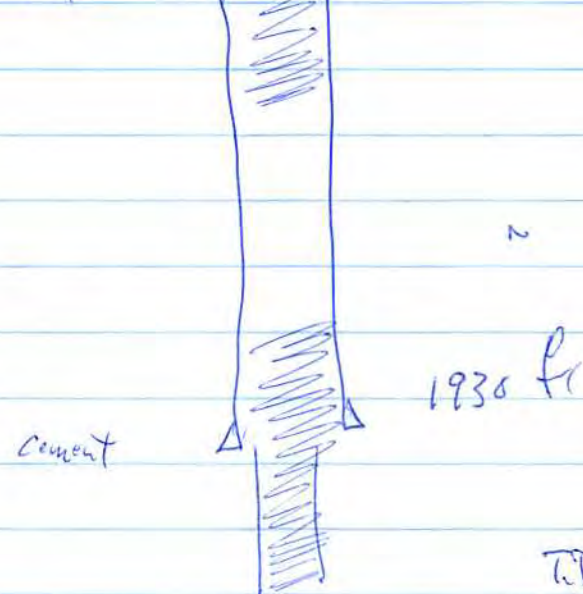
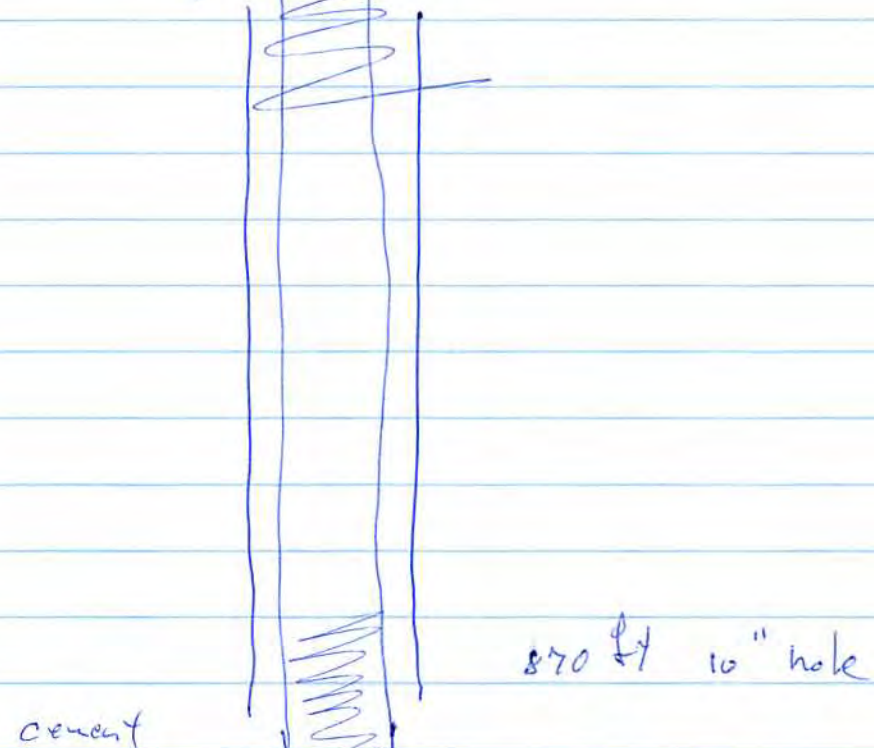
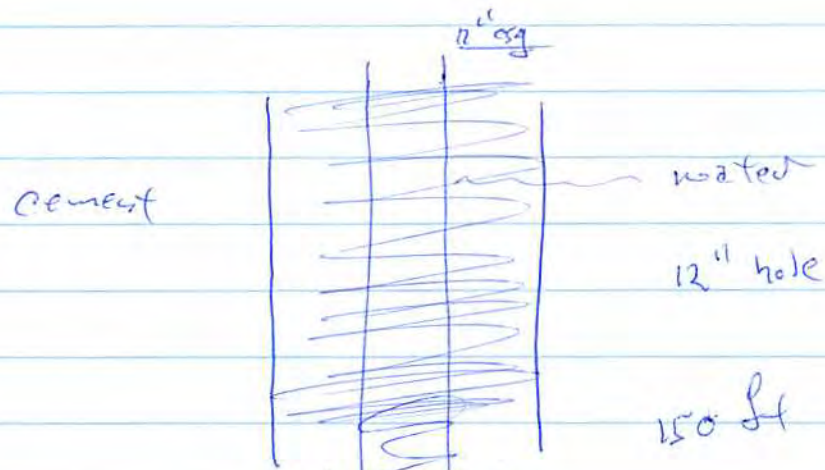
Notification must be given to the district oil and gas inspector 24 hours before permitted work can commence.

Work order approved by inspector



Date 5/7/14 MAY 20 2014

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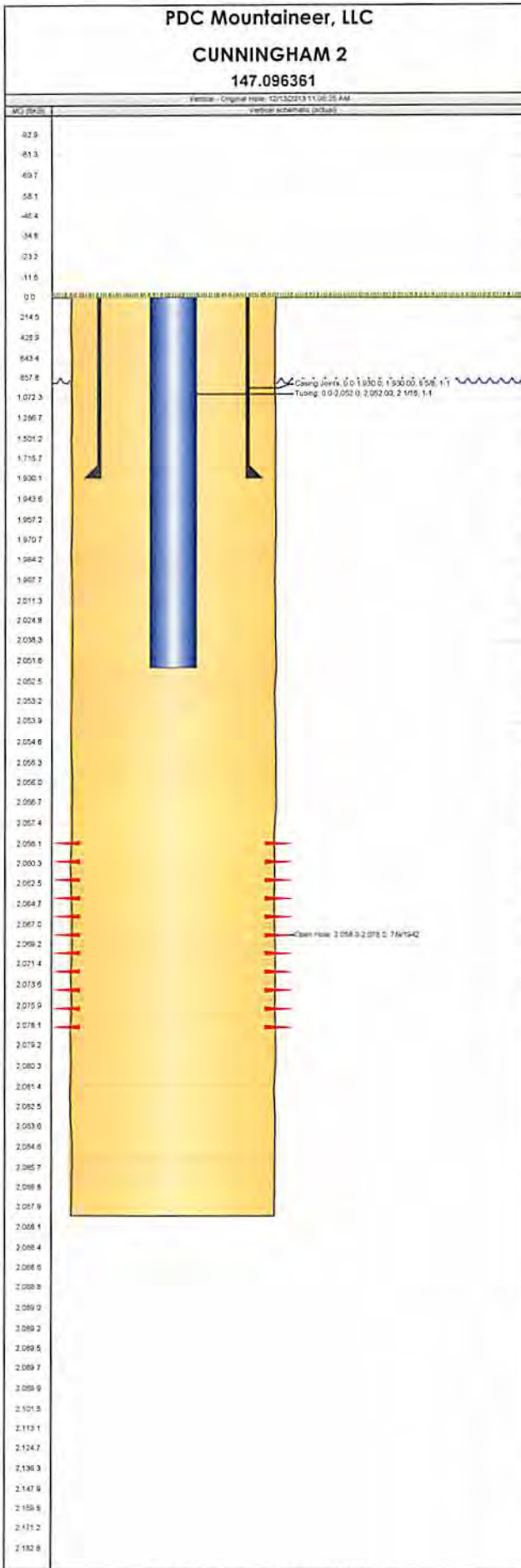
WV Department of
Environmental Protection
T.D. 2088 07/18/2014
Shot hole

MIRU

- 1
- 2 - Pull tubing & Rods -
- 3 verify I.D.
- 4 - trip work string in hole & spot cement from
T.D. to 1820 ft.
- 5 verify plug is in place
- 6 - free point 7" csg - & pull.
- 7 if free point is above 200 ft spot
- 8 100 ft plug from 240 to 840.
- 9 spot 100 ft plug at csg cut
- 10 set 200 ft plug at surface -
erect monument with API no.

6% gel between all
plugs

1300707P



| | | | | | |
|--------------------------------------|------------------|---------------------------------------|--------------------------|-------------------------|-------------|
| API 470130070000 | | Operator PDC Mountaineer, LLC | | Surface Legal Location | |
| Orig KB Elev (ft) | 915.00 | Ground Elevation (ft) | 915.00 | KB-Ground Distance (ft) | 0.00 |
| Directions To Well | | | Spud Date 6/1/1942 | | |
| Original Hole | | | | | |
| Proposed Deviation Survey | | | Actual Deviation Survey | | |
| Wellbore Sections | | | | | |
| Size (in) | 8 3/4 | Act Top (ftKB) | 0.0 | Act Btm (ftKB) | 2,088.0 |
| Plug Back Total Depths | | | | | |
| Date | 4/21/1969 | | Depth (ftKB) | | 2,090.0 |
| Deviation Surveys | | | | | |
| Date | Des | Prop? | Definitive? | | |
| Casing Strings | | | | | |
| Production, 1,930.0ftKB | | | | | |
| Run Date | Centralizers | Scratchers | | | |
| 7/9/1942 | | | | | |
| Item Des | OD (in) | Wt (lb/ft) | Blm (ftKB) | Jts | ID (in) |
| Casing Joints | 6 5/8 | | 1,930.0 | | |
| | | | 1,930.0 | | |
| Cement | | | | | |
| Des | Class | Amount (sacks) | Est Top (ftKB) | Est Btm (ftKB) | |
| Surface Casing Cement | | | | | |
| Production Casing Cement | | | | | |
| Stimulations & Treatments | | | | | |
| <type> on <dtm> | | | | | |
| Blm/Treat Date | Zone | Solym/Treat Company | Proppant Firm (lb) | | |
| Comment | | | | | |
| Perforations | | | | | |
| Date | Top (ftKB) | Blm (ftKB) | Zone | Shot Dens (shots/ft) | |
| 7/9/1942 | 2,058.0 | 2,078.0 | Big Injun, Original Hole | | |
| Other In Hole | | | | | |
| Des | Top (ftKB) | Blm (ftKB) | Run Date | Pull Date | |
| Current tubing in hole | | | | | |
| Item Description | OD (in) | Set Depth (ftKB) | Wt (lb/ft) | Grade | Length (ft) |
| Tubing | 2 1/16 | 2,052.0 | | | 2,052.00 |
| Jobs | | | | | |
| Job Category | Primary Job Type | Start Date | End Date | | |
| Well Problems / Concerns | | | | | |
| Date | Com | | | | |
| No cement record | | | | | |
| Rework Procedure / Intent | | | | | |
| Des | | | | | |
| Available Attachments | | | | | |
| Type 1 | Type 2 | Description | Date | File Extension | |
| | | Scanned Well File-Cunningham #2-96361 | | pdf | |
| Type 1 | Type 2 | Description | Date | File Extension | |
| | | Well History - Cunningham 2 | | doc | |

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02-10

STATE OF VIRGINIA
DEPARTMENT OF MINES
OIL AND GAS DIVISION

WELL RECORD

Oil & Gas

Permit No. CAL. 737

Oil or Gas Well (Kind)

Company: McCall Drilling Company,
7012 Keystone Building, Pgh. Pa.
 Address: _____
 Farm: T. S. Cunningham Acres: 147
 Location (waters): _____
 Well No. 2-197 Elev. 315
 District Sherman County Calhoun
 The surface of tract is owned in fee by T. S. Cunningham
Millstone V. Vs. Address _____
 Mineral rights are owned by Same
 Address _____
 Drilling commenced 6-1-42
 Drilling completed 7-9-42
 Date shot 7-9-42 Depth of shot 2058-2078
 Open Flow 9/10ths Water in 1" Inch
 _____ /10ths Merc. in. _____ Inch
 Volume _____ Cu. Ft.
 Rock Pressure _____ lbs. _____ hrs.
 Oil 10 Bbls _____ bbls., 1st 24 hrs.
 Fresh water 40 feet _____ feet
 Salt water _____ feet _____ feet

| Casing and Tubing | Used in Drilling | Left in Well | Packers |
|-------------------|------------------|--------------|----------------|
| Size | | | |
| 16 | | | Kind of Packer |
| 13 | | | |
| 10 | 147 | 147 | Size of |
| 8 1/2 | 870 | 878 | |
| 6 1/2 | 1920 | 1920 | Depth set |
| 5 3/16 | | | |
| 3 | | 2078 | Perf. top |
| 2 | | | Perf. bottom |
| Liners Used | | | Perf. top |
| | | | Perf. bottom |

CASING CEMENTED _____ SIZE _____ No. Ft. _____ Date _____
 No coal encountered
 COAL WAS ENCOUNTERED AT _____ FEET _____ INCHES
 _____ FEET _____ INCHES _____ FEET _____ INCHES
 _____ FEET _____ INCHES _____ FEET _____ INCHES

| Formation | Color | Hard or Soft | Top | Bottom | Oil, Gas or Water | Depth Found | Remarks |
|--------------|-------|--------------|------|--------|-------------------|-------------|--|
| Sand | | | 20 | 75 | | | |
| Lime | | | 75 | 100 | | | |
| Sand | | | 100 | 140 | | | |
| Slate | | | 140 | 160 | | | |
| Red Rock | | | 160 | 200 | | | |
| Sand | | | 200 | 270 | | | Oil showed up at 2070 |
| Red Rock | | | 270 | 290 | | | |
| Lime | | | 290 | 310 | | | |
| Red Rock | | | 310 | 320 | | | |
| Slate | | | 320 | 360 | | | |
| Red Rock | | | 360 | 370 | | | |
| Slate | | | 370 | 395 | | | |
| Lime | | | 395 | 450 | | | |
| Sand | | | 450 | 480 | | | |
| Slate | | | 480 | 490 | | | 2" Tubing - 7'10" perforation |
| Red Rock | | | 490 | 515 | | | 19'6" kickoff - 8' working barrel. |
| Slate | | | 515 | 570 | | | |
| Sand | | | 570 | 580 | | | |
| Slate | | | 580 | 670 | | | |
| Sand | | | 670 | 720 | | | |
| Slate | | | 720 | 740 | | | Oil Pay 2058 - 2078 |
| Red Rock | | | 740 | 775 | | | very little gas. |
| Slate | | | 775 | 790 | | | |
| Red Rock | | | 790 | 800 | | | |
| Slate | | | 800 | 860 | | | This well shot with 90 qt, Time Shot. |
| Lime | | | 860 | 1000 | | | |
| Sand | | | 1000 | 1215 | | | |
| Slate | | | 1215 | 1260 | | | Well cleaned it self and flowed at the rate of about 50 Bbls per day for a few days. |
| Sand | | | 1260 | 1290 | | | |
| Slate | | | 1290 | 1350 | | | |
| Sand | | | 1350 | 1515 | | | |
| Sand | | | 1515 | 1550 | | | |
| Slate | | | 1550 | 1650 | | | When cleaned out and put to pumping it pumped 50 bbls for first 30 days. |
| Sand | | | 1650 | 1675 | | | |
| Slate | | | 1675 | 1680 | | | |
| Lime | | | 1680 | 1713 | | | |
| Sand | | | 1713 | 1773 | | | 6-7/8" - 22Ft anchor |
| Slate | | | 1773 | 1783 | | | 5' perforation - 2 1/2" anchor pack |
| Maxon | | | 1783 | 1878 | | | Show Gas 1825 |
| Slate & Lime | | | 1878 | 1910 | | | Water 1835 |
| Blue Monday | | | 1910 | 1938 | | | Show gas 1915 |
| Big Line | | | 1938 | 1998 | | | Show gas 1925 |
| Big Injun | | | 1998 | 2084 | | | Total |

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STATE OF WEST VIRGINIA
DEPARTMENT OF MINES
OIL AND GAS DIVISION

WELL RECORD

Oil & Gas

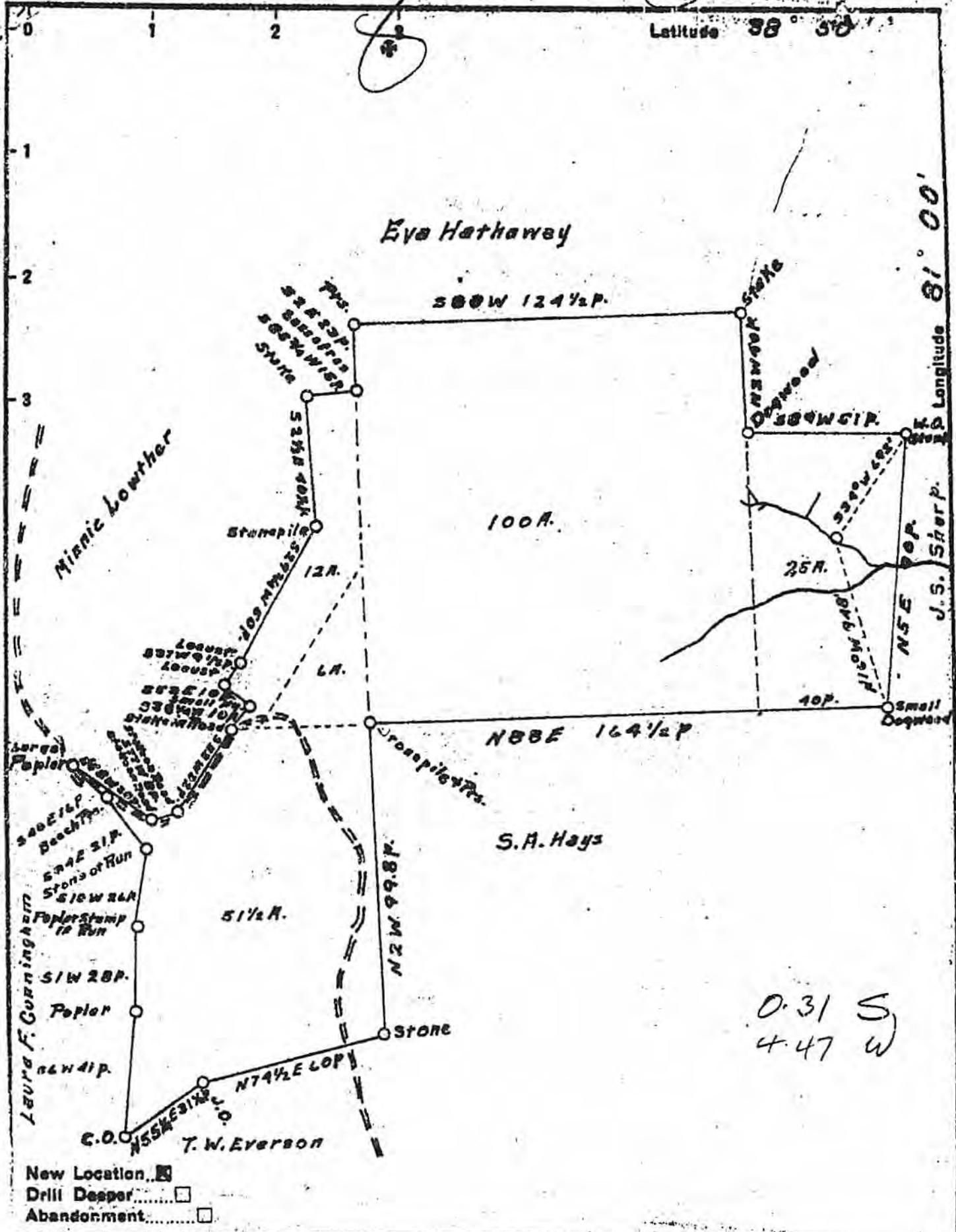
Permit No. CAL.707

Oil or Gas Well _____
(KIND)

| | | | | |
|--|---|---------------------|-----------------|----------------|
| Company <u>McCall Drilling Company,</u> <u>#612 Keystone Building, Pgh. Pa.</u> | Casing and Tubing | Used in Drilling | Left in Well | Packers |
| Address _____ | Size | | | |
| Farm <u>T. S. Cunningham</u> Acres <u>147</u> | 16 | | | Kind of Packer |
| Location (waters) _____ | 18 | | | |
| Well No. <u>2-197</u> Elev. <u>915</u> | 10 | <u>147</u> | 147 | Size of |
| District <u>Sherman</u> County <u>Calhoun</u> | 8 1/4 | <u>870</u> | 870 | Depth set |
| The surface of tract is owned in fee by <u>T. S. Cunningham</u> <u>Millstone W. Va.</u> Address _____ | 6% | <u>1930</u> | <u>1930</u> | |
| Mineral rights are owned by <u>Same</u> Address _____ | 5 3/16 | | | Perf. top |
| Drilling commenced <u>6-1-42</u> | 3 | | | Perf. bottom |
| Drilling completed 7-9-42 <u>7-9-42</u> | 2 | | <u>2078</u> | Perf. top |
| Date shot <u>7-9-42</u> Depth of shot <u>2058-2078</u> | Liners Used | | | Perf. bottom |
| Open Flow <u>9/10ths Water in. 1"</u> Inch | | | | |
| /10ths Merc. in. _____ Inch | | | | |
| Volume <u>3.5, 760</u> Cu. Ft. | CASING CEMENTED _____ SIZE _____ No. Ft. _____ Date _____ | | | |
| Rock Pressure _____ lbs. _____ hrs. | _____ <u>No coal encountered</u> _____ | | | |
| Oil <u>10 Bbls</u> bbls., 1st 24 hrs. | COAL WAS ENCOUNTERED AT _____ FEET _____ INCHES | | | |
| Fresh water <u>40</u> feet _____ feet | _____ FEET _____ INCHES _____ FEET _____ INCHES | | | |
| Salt water _____ feet _____ feet | _____ FEET _____ INCHES _____ FEET _____ INCHES | | | |

| Formation | Color | Hard or Soft | Top | Bottom | Oil, Gas or Water | Depth Found | Remarks |
|--------------|-------|--------------|------|--------|---|-------------|---------|
| Sand | | | 20 | 75 | | | |
| Lime | | | 75 | 100 | | | |
| Sand | | | 100 | 140 | | | |
| Slate | | | 140 | 160 | | | |
| Red Rock | | | 160 | 200 | | | |
| Sand | | | 200 | 270 | | | |
| Red Rock | | | 270 | 290 | | | |
| Lime | | | 290 | 310 | | | |
| Red Rock | | | 310 | 320 | | | |
| Slate | | | 320 | 360 | | | |
| Red Rock | | | 360 | 370 | | | |
| Slate | | | 370 | 395 | | | |
| Lime | | | 395 | 450 | | | |
| Sand | | | 450 | 480 | | | |
| Slate | | | 480 | 490 | | | |
| Red Rock | | | 490 | 515 | | | |
| Slate | | | 515 | 570 | | | |
| Sand | | | 570 | 580 | | | |
| Slate | | | 580 | 670 | | | |
| Sand | | | 670 | 720 | | | |
| Slate | | | 720 | 740 | | | |
| Red Rock | | | 740 | 775 | | | |
| Slate | | | 775 | 790 | | | |
| Red Rock | | | 790 | 800 | | | |
| Slate | | | 800 | 860 | | | |
| Lime | | | 860 | 1000 | | | |
| Sand | | | 1000 | 1225 | | | |
| Slate | | | 1225 | 1280 | | | |
| Sand | | | 1280 | 1350 | | | |
| Slate | | | 1315 | 1515 | | | |
| Sand | | | 1515 | 1550 | | | |
| Slate | | | 1550 | 1650 | | | |
| Sand | | | 1650 | 1675 | | | |
| Slate | | | 1675 | 1680 | | | |
| Lime | | | 1680 | 1713 | | | |
| Sand | | | 1713 | 1773 | | | |
| Slate | | | 1773 | 1783 | | | |
| Maxon | | | 1783 | 1878 | | | |
| Slate & Lime | | | 1878 | 1910 | | | |
| Blue Monday | | | 1910 | 1938 | | | |
| Big Lime | | | 1938 | 1998 | | | |
| Big Injun | | | 1998 | 2084 | | | |
| | | | | | Oil Pay 2058 - 2078 very little gas. | | |
| | | | | | Show Gas 1825 Water 1835 | | |
| | | | | | Show gas 1913 Show gas 1925 | | |
| | | | | | Total depth <u>2088</u> | | |

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Company **McCall Drilling Co.**
 Address **612 Keystone Bldg. Pittsburg, Pa.**
 Farm **T.S. Cunningham**
 Tract **25A** Acres **195** Lease No. _____
 Well (Farm) No. **2-197** Serial No. _____
 Elevation (Spirit Level) **875'**
 Quadrangle **Arnoldsburg SE**
 County **Calhoun** District **Sherman**
 Engineer **Bruce Ferrell, Jr**
 Engineer's Registration No. _____
 File No. _____ Drawing No. _____
 Date **Mar 8, 1942** Scale **400' = 1"**

STATE OF WEST VIRGINIA
 DEPARTMENT OF MINES
 OIL AND GAS DIVISION
 CHARLESTON

WELL LOCATION MAP
 FILE NO. **CAL-707**

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 Topographic Maps, scale 1 to 62,500
 MAY 31 1942
 + Denotes location of well on United States
 Topographic Maps, scale 1 to 62,500
 latitude and longitude lines being represented
 by border lines as shown.
 WV Department of
 Environmental Protection
 - Denotes one inch spaces on border line
 of original tracing.

1300707P

WW-4A
Revised 6-07

1) Date: 4/14/2014
2) Operator's Well Number
T.S. Cunningham #2
3) API Well No.: 47 - 013 - 00707

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

| | |
|---------------------------------------|------------------------------------|
| 4) Surface Owner(s) to be served: | 5) (a) Coal Operator |
| (a) Name <u>Raymond F. LaHaie</u> ✓w | Name _____ |
| Address <u>Madeleine N. LaHaie</u> ✓w | Address _____ |
| <u>466 Memory Lane</u> | |
| (b) Name <u>Millstone, WV 25261</u> | (b) Coal Owner(s) with Declaration |
| Address _____ | Name <u>NA</u> |
| | Address _____ |
| (c) Name _____ | Name _____ |
| Address _____ | Address _____ |
| 6) Inspector <u>Ed Gainer</u> | (c) Coal Lessee with Declaration |
| Address <u>P.O. Box 821</u> | Name _____ |
| <u>Spencer, 25276</u> | Address _____ |
| Telephone <u>304-381-7582</u> | |

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

- (1) The application to Plug and Abandon a Well on Form WW-4B, which sets out the parties involved in the work and describes the well its and the plugging work order; and
- (2) The plat (surveyor's map) showing the well location on Form WW-6.

The reason you received these documents is that you have rights regarding the application which are summarized in the instructions on the reverses side. However, you are not required to take any action at all.

Take notice that under Chapter 22-6 of the West Virginia Code, the undersigned well operator proposes to file or has filed this Notice and Application and accompanying documents for a permit to plug and abandon a well with the Chief of the Office of Oil and Gas, West Virginia Department of Environmental Protection, with respect to the well at the location described on the attached Application and depicted on the attached Form WW-6. Copies of this Notice, the Application, and the plat have been mailed by registered or certified mail or delivered by hand to the person(s) named above (or by publication in certain circumstances) on or before the day of mailing or delivery to the Chief.



Well Operator PDC Mountaineer, LLC
 By: Steven P. Johnson
 Its: Designated Agent
 Address 120 Genesis Blvd.
Bridgeport, WV 26330
 Telephone 304-842-3597

Subscribed and sworn before me this 22nd day of April 2014
Rachel Wyckoff Notary Public
 My Commission Expires March 14, 2022

Oil and Gas Privacy Notice

The Office of Oil and Gas processes your personal information, such as name, address and phone number, as a part of our regulatory duties. Your personal information may be disclosed to other State agencies or third parties in the normal course of business or as needed to comply with statutory or regulatory requirements, including Freedom of Information Act requests. Our office will appropriately secure your personal information. If you have any questions about our use of your personal information, please contact DEP's Chief Privacy Officer at depprivacyofficer@wv.gov.

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SURFACE OWNER WAIVER

Operator's Well
Number

T.S. Cunningham #2

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 the planned work described in these materials, and I have no objection to a permit being issued on those materials.

FOR EXECUTION BY A NATURAL PERSON
ETC.

FOR EXECUTION BY A CORPORATION,

Raymond J. Lattai
Signature
Madeline M. Lattai

Date 4-25-14 Name _____
By _____
Its 4-25-14 _____

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Office of Oil and Gas
MAY 20 2014
Date
Signature
WV Department of Environmental Protection
07/16/2014

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

CONSTRUCTION AND RECLAMATION PLAN AND SITE REGISTRATION APPLICATION FORM
GENERAL PERMIT FOR OIL AND GAS PIT WASTE DISCHARGE

Operator Name PDC Mountaineer, LLC OP Code 494494839

Watershed Unnamed Tributary of Left Fork Quadrangle Millstone 7.5

Elevation 271 m (890 ft.) County Calhoun District Sherman

Description of anticipated Pit Waste: Produced Fluids

Will a synthetic liner be used in the pit? Yes 20 mil.

Proposed Disposal Method For Treated Pit Wastes:

- ~~XX~~ ~~Land Application~~ SP5
- XX Underground Injection (UIC Permit Number # 2459, Noble County, Ohio)
- Reuse (at API Number _____)
- Off Site Disposal (Supply form WW-9 for disposal location)
- Other (Explain _____)

Proposed Work For Which Pit Will Be Used:

- Drilling
- Workover
- Other (Explain _____)
- Swabbing
- XX Plugging

I certify that I understand and agree to the terms and conditions of the GENERAL WATER POLLUTION PERMIT issued on August 1, 2005, by the Office of Oil and Gas of the West Virginia Department of Environmental Protection. I understand that the provisions of the permit are enforceable by law. Violations of any term or condition of the general permit and/or other applicable law or regulation can lead to enforcement action.

I certify under penalty of law that I have personally examined and am familiar with the information submitted on this application form and all attachments thereto and that, based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the information is true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine or imprisonment.

Company Official Signature Steven P. Johnson

Company Official (Typed Name) Steven P. Johnson

Company Official Title Designated Agent

Subscribed and sworn before me this 22nd day of April, 20 14

Rachel Wyckoff Notary Public

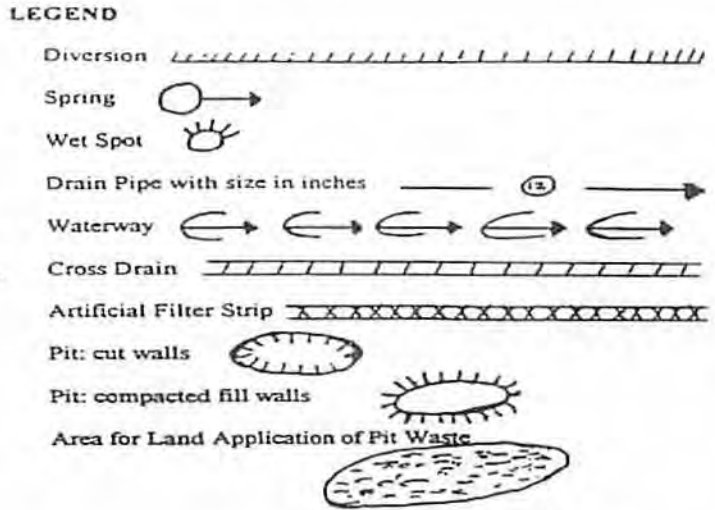
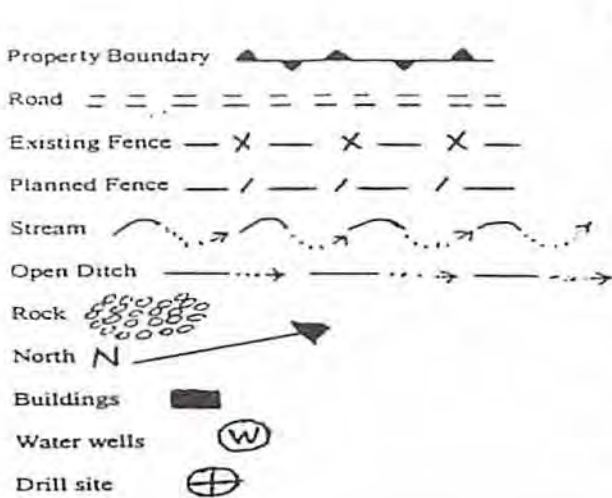
My commission expires 14, 2022
Office of Oil and Gas

JUL 9 2014

WV Department of
Environmental Protection



07/18/2014



Proposed Revegetation Treatment: Acres Disturbed 1.25 acres +/- Prevegetation pH TBD

Lime ~~TBD~~ 2 Tons/acre or to correct to pH 6.5

Fertilizer (10-20-20 or equivalent) 500 lbs/acre (500 lbs minimum)

Mulch hay or straw Tons/acre

Seed Mixtures

| Seed Type | Area I | lbs/acre | Seed Type | Area II | lbs/acre |
|--------------------|--------|----------|---------------|---------|----------|
| Kentucky Bluegrass | 40 | | Orchard Grass | 15 | |
| Alsike Clover | 5 | | Alsike Clover | 5 | |
| Annual Rye | 1 | | | | |

Attach: Drawing(s) of road, location, pit and proposed area for land application.

Photocopied section of involved 7.5' topographic sheet.

Plan Approved by:

Comments: Road needs repair + sediment protection to be in place at all times

Title: Oil and gas inspector

Date: 4/28/14 5/5/14
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Field Reviewed? Yes No

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07/18/2014

1300707P

Topo Quad: Millstone 7.5'

Scale: 1" = 2000'

County: Calhoun

Date: March 21, 2014

District: Sherman

Project No: 67-14 PDC

47-013-00707 (T.S. Cunningham #2)

Topo



47-013-00707
T.S. Cunningham #2

NAD 27, South Zone
 N: 665,972.75
 E: 1,976,733.42
 WGS 84
 LAT: 38.828953
 LONG: -81.081502
 ELEV: 890.00

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PREPARED FOR:

PDC Mountaineer, LLC

120 Genesis Blvd.
 Bridgeport, WV 26330

Department of
 Environment & Protection

07/18/2014



SURVEYING AND MAPPING SERVICES PERFORMED BY:

ALLEGHENY SURVEYS, INC.

1-800-482-8606
 P.O. BOX 438
 BIRCH RIVER, WV 26610
 PH: (304) 649-8606
 FAX: (304) 649-8608

1300707A

WW-7
3-21-14



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

CK 30139
10000

API: 47-013-00707 WELL NO.: T.S. Cunningham #2
FARM NAME: T.S. Cunningham
RESPONSIBLE PARTY NAME: PDC Mountaineer, LLC
COUNTY: Calhoun DISTRICT: Sherman
QUADRANGLE: Millstone 7.5'
SURFACE OWNER: Raymond F. & Madeline N. Lahaie
ROYALTY OWNER: T.S. Cunningham Heirs, et al.
UTM GPS NORTHING: 4297798.7
UTM GPS EASTING: 492925.7 GPS ELEVATION: 271 m (890 ft)

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:

- Datum: NAD 1983, Zone: 17 North, Coordinate Units: meters, Altitude: height above mean sea level (MSL) – meters.
- Accuracy to Datum – 3.05 meters
- Data Collection Method:
Survey grade GPS : Post Processed Differential
Real-Time Differential
Mapping Grade GPS X: Post Processed Differential X
Real-Time Differential
- Letter size copy of the topography map showing the well location.**

I the undersigned, hereby certify this data is correct to the best of my knowledge and belief and shows all the information required by law and the regulations issued and prescribed by the Office of Oil and Gas.

Signature *Stacy O'Neil*
Date 4/1/14

Title PS # 2180

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PDC MOUNTAINEER

PDC Mountaineer, LLC
120 Genesis Boulevard
Bridgeport, WV 26330
304-842-3597
304-808-0913 (fax)

May 19, 2014

Office of Oil and Gas
601 57th Street, SE
Charleston, WV 25304-2345
Attn: Justin Nottingham

Re: PDC Mountaineer, LLC; Application to Plug and Abandon 47-013-00707 (T.S. Cunningham #2), Sherman District, Calhoun County, WV.

Dear Mr. Nottingham,

Please find subject application and fees enclosed. If you have any questions or comments regarding this application feel free to contact me at 304-842-3597 x 6558.

Sincerely,

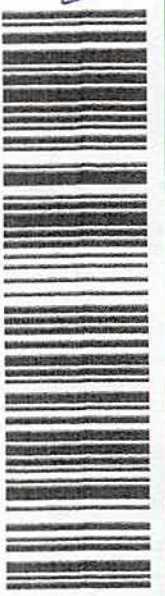
Steven P. Johnson
Senior Regional Landman / Agent

Enc.

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PLACE STICKER AT TOP OF ENVELOPE TO THE RIGHT
OF THE RETURN ADDRESS, FOLD AT DOTTED LINE
CERTIFIED MAIL™



9171 9690 0935 0057 2448 81



PDC MOUNTAINEER

120 Genesis Boulevard
P.O. Box 26
Bridgeport, West Virginia 26330

TO:

Raymond F. LaHaie
Madeline N. LaHaie
466 Memory Lane
Millstone, WV 25261

neopost
04/22/2014

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Tracking Number: 9171969009350057244881

Product & Tracking Information

Postal Product:

Features:
Certified Mail™

| POSTAL PRODUCT | CERTIFIED MAIL™ | USPS MAIL |
|--|-----------------|-----------------------|
| April 25, 2014, 1:25 pm | Delivered | ARNOLDSBURG, WV 25234 |
| Your item was delivered at 1:25 pm on April 25, 2014 in ARNOLDSBURG, WV 25234. | | |

Available Actions

USPS Text Tracking™

Email Updates

| | | |
|--------------------------|---|-----------------------|
| April 23, 2014, 9:54 am | Notice Left (No Authorized Recipient Available) | MILLSTONE, WV 25261 |
| April 23, 2014, 8:58 am | Sorting Complete | ARNOLDSBURG, WV 25234 |
| April 23, 2014, 7:27 am | Arrival at Unit | ARNOLDSBURG, WV 25234 |
| April 23, 2014, 3:00 am | Depart USPS Sort Facility | CHARLESTON, WV 25350 |
| April 23, 2014, 2:32 am | Processed through USPS Sort Facility | CHARLESTON, WV 25350 |
| April 22, 2014, 10:12 pm | Processed through USPS Sort Facility | CHARLESTON, WV 25350 |

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What's your tracking (or receipt) number?

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WW-9
Rev. 5/08

Page _____ of _____
API Number 47 - 013 - 00707
Operator's Well No. T.S. Cunningham #2

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

CONSTRUCTION AND RECLAMATION PLAN AND SITE REGISTRATION APPLICATION FORM
GENERAL PERMIT FOR OIL AND GAS PIT WASTE DISCHARGE

Operator Name PDC Mountaineer, LLC OP Code 494494839

Watershed Unnamed Tributary of Left Fork Quadrangle Millstone 7.5

Elevation 271 m (890 ft.) County Calhoun District Sherman

Description of anticipated Pit Waste: Produced Fluids

Will a synthetic liner be used in the pit? Yes 2011

Jard

Proposed Disposal Method For Treated Pit Wastes:

- ~~XX~~ ~~Land Application~~ SP5
- Underground Injection (UIC Permit Number # 2459, Noble County, Ohio)
- Reuse (at API Number _____)
- Off Site Disposal (Supply form WW-9 for disposal location)
- Other (Explain _____)

Proposed Work For Which Pit Will Be Used:

- Drilling Swabbing
- Workover Plugging
- Other (Explain _____)

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Company Official (Typed Name) Steven P. Johnson

Company Official Title Designated Agent

Subscribed and sworn before me this 22nd day of April, 20 14

[Signature] Notary Public

My commission expires March 14, 2022

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