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

June 05, 2015

WELL WORK PLUGGING PERMIT

Plugging

This permit, API Well Number: 47-3305237, issued to ANTERO RESOURCES CORPORATION, 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
Chief

Operator's Well No: HAMOND 3H
Farm Name: HILL, DAVID & SUELLEN
API Well Number: 47-3305237
Permit Type: Plugging
Date Issued: 06/05/2015

Promoting a healthy environment.

3305237P

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.

3305237P

June 5, 2015

Jeffrey W. McLaughlin
Technical Analyst
WV DEP, Office of Oil and Gas

David W. & Suellen H. Hill
682 Haymond Woods Road
Salem, WV 26426

RE: Haymond NW Unit 3H (API # 47-033-05237)
Plugging Permit Application

Dear Mr. & Mrs. Hill:

I am responding to your letter of November 19, 2014 concerning the above-referenced plugging permit application. Paragraph 1, concerns your interpretation of the form WW-4B, Item 10. This well in its current state consists of 40' of 20" diameter casing. Its annulus has been cemented to surface as reflected on the form WR-35, filed with the WV DEP on July 15, 2010. The conductor casing was set on 6/11/2009 and no other well construction has been done for API # 47-033-05237 since then. This means the entire well currently consists of 40 feet of 20" conductor casing with no drilled hole or casing below this point. Therefore, Item 10 (work order) is considered an appropriate and acceptable method to plug this well.

The Reclamation Plan you refer to in paragraph 2 is actually an as built plan dated 8/08/2012. This document images the constructed pad and the erosion and sediment control measures built or installed as of 8/08/2012. Therefore, I would not consider it as any other type document. It is my understanding that this pad has active wells on it and will remain open for access and egress. Additionally, it is my belief that work is being done currently to reclaim the fresh water impoundment associated with this pad and to satisfy an EPA Compliance Order.

Paragraph 3 addresses the topic of imposing permit conditions on an issued plugging permit for this well based on Antero's history. This particular well is very shallow in depth and will require minimal disturbance to plug. It will be plugged in accordance with the WV State Code. The operator must notify the Oil and Gas inspector before plugging can commence and an affidavit must be provided to the Office of Oil and Gas attesting that the proper procedure was carried out. It is my opinion that this will be sufficient.

Paragraph 4 addresses the 5 day period given to Surface Owners to comment on the plugging and abandonment notification. This is per WV State Code, so it is the law that our agency must follow.

I hope that we have adequately answered your questions and alleviated some of your concerns.

Regards,

Jeffrey W. McLaughlin

Jeffrey W. McLaughlin
WV DEP, Office of Oil and Gas

3305237P
11/17

DAVID W. & SUELLEN H. HILL

682 Haymond Woods Road
Salem, WV 26426
(304) 203-2037

Received
Office of Oil & Gas
NOV 20 2014

November 19, 2014

James A. Martin, Jr., Chief
Office of Oil and Gas
WV Department of Environmental Protection
601 57th Street, SE
Charleston, WV 25304

VIA CERTIFIED MAIL

RE: Notification of Intention to Plug & Abandon
Haymond NW Unit 3H (API# 47-033-05237-00) Gas Well
Harrison County/Tenmile District, West Virginia

Dear Mr. Martin:

As a Surface Owners of the tract on which Antero Resources Corporation (Antero) plans to plug the above referenced gas well. We would like to provide you with the following comments concerning the above notification of Antero's application to plug this well. We request you respond to the following concerns we have with regards to their application to your office.

1. If we are interpreting Antero's application correctly, Form WW-4B, Item 10, identifies their plans to only plug the Conductor casing with cement for only 40 feet. We feel if this interpretation is correct then the plugging of only the first 40 feet will not protect the ground water resources on our property and constitute a hazard to the safety of our family and other parties whose water wells utilize the same ground aquifers. Our concerns are supported by the initial application (dated July 13, 2010) on Form WW-2B, Antero Resources identified on Item 7 that the approximate fresh water strata was 50 feet. Our water well which is our fresh water supply for our residence is at a depth of 240 feet. If Antero only plugs their well for the first 40 feet then all of the water aquifers below that depth will be affected by the flowback from the horizontal lead and unplugged vertical section of their well and the pressure from those areas could possibly result in contamination of the ground aquifers below 40 feet and thereby affect our fresh water source. We therefore request the DEP require Antero to revise Item 10 to plug the Conductor casing and well casing for a minimum of 400 feet in order to protect the ground water resources on our property.

3305237P

Received
Office of Oil & Gas
NOV 20 2014

2. The Abandonment Plan we received contained a Reclamation Plan for reclaiming this pad. Your records should show the last well drilled on the Hill Pad was completed in March of 2013 and that we have repeatedly made inquires to your office asking when this well pad was going to be reclaimed according to requirements of Chapter 22. To this date, we have not been given any schedule for the reclamation of this well pad or the meeting of the additional reclamation terms agreed to by Antero in our Surface Use Agreement. Can we consider this the Reclamation Plan in this Notification to Plug and Abandon this well as the notice of their intent to begin reclamation of this well pad upon the completion of the plugging of this gas well? If not, then can your office provide us with a schedule of when your Department is going to require Antero to adhere to the requirements of the State Code?

3. We feel you should also condition this well work permit based on Antero's history of multiple violations of the DEP rules that have occurred on our property since Antero started operations in 2009. Your records will show that there were multiple Chapter 22 violations where Antero was issued warnings or notices of violation including the contamination of our well water in 2011 due to the failure of the pit liner for the frac pit on this well pad. In addition to these known violations, there were an unknown number of verbal warnings given to Antero during their operations on our property. Kristian Jenkins, who was the DEP Inspector during the drilling of most of the wells on our property, told me in our initial meeting he did not believe in giving written violation notices because it was unnecessary paperwork and preferred to give verbal warnings, therefore, we have no idea how many verbal warnings Mr. Jenkins had given Antero. We do know of one (1) spill that occurred in the spring of 2011 of diesel fuel and other contaminates into Indian Run that Antero actually tested the soil verifying diesel fuel and other contaminates in the soil as a result of this spill. Mr. Jenkins did not issue any violation notices for that spill because he "did not see it happen". With this type of lack of supervision and inspection by your Department, it is unknown how many violations actually occurred on our property. Considering Antero's history of Chapter 22 violations on our property, as well as, multiple other properties in Harrison and Doddridge County, we feel your Department has an obligation to add additional conditions and inspection procedures to Antero's operations to protect the safety of our family and our neighbors.

3305237P
Received
Office of Oil & Gas
NOV 20 2014

4. I also want to comment on the 5 day time limit given to Surface Owners for comment of this plugging and abandonment notification. First, be advised Antero did not provide us with this notification by Certified Mail as required in your regulations. Antero's letter to us was dated November 11, 2014 (Veterans Day), however, it was sent by Priority Mail and not mailed from Denver Colorado until November 13, 2014. Enclosed is a copy of the Priority Mail address label for your information. We live on a rural mailing route and did not receive notice from the US Postal Service until November 17, 2014 that we had Priority Mail to pick up at the Post Office. Our mail is not delivered until 3:30 in the afternoon and we do not get home from work until 4:30 to 5:00 each afternoon, which is after the local Post Office closes. Therefore, we were unable to receive the Priority Mail package until the morning of Tuesday, November 18, 2014. I am sure this is not uncommon as the gas companies regularly take advantage of your regulations to put the Surface Owner at the disadvantage to make timely comments to your office. I request you take this timeframe of the mailing and receiving of the Priority Mail into consideration and also recommend your office change your 5 day comment policy to a minimum of 15 days to allow Surface Owners adequate time to interpret and comment on activities on their properties.

In summary, we are not opposed to the plugging of this well, however, we do feel your office needs to look at this application closer and place conditions on Antero's Well Work Permit including additional cementing to a deeper depth, and placing a time limit for the reclamation of this well pad.

We request your response to this letter in writing with a carbon copy to our attorney, Stephen Wickland. His address is:

Stephen Wickland, Esquire
Attorney at Law
424 Holden Street
Clarksburg, WV 26301

Per your current DEP requirements, we request your response and answer to our questions within the next 5 days.

Sincerely,

David W. Hill

DWH:bm
Enclosure
cc: Stephen Wickland

3305237P

WW-4B
Rev. 2/01

1) Date November 12, 2014
2) Operator's Well No. Haymond NW Unit 3H
3) API Well No. 47- 033 - 05237

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

APPLICATION FOR A PERMIT TO PLUG AND ABANDON

4) Well Type: Oil ____/ Gas X / Liquid injection ____/ Waste disposal ____/
(If "Gas, Production X or Underground storage ____) Deep ____/ Shallow X

5) Location: Elevation 1150' Watershed Tributary of Indian Run
District Tenmile County Harrison Quadrangle Salem

6) Well Operator Antero Resources Corporation
Address 1615 Wynkoop Street
Denver, CO 80202

7) Designated Agent CT Corporation System- Dianna Stamper
Address 5400 D Big Tyler Road
Charleston, WV 25313

8) Oil and Gas Inspector to be notified
Name Sam Ward
Address 601 57th Street, SE
Charleston, WV 25304

9) Plugging Contractor
Name N/A - Antero will plug well.
Address

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

*Conductor casing: 20" set to 40' KB - cemented to surface with Class A Cement on June 10, 2009.

Objective: Plug & Abandon Conductor - A plug from base of Conductor casing (40') will be set to within 3' of ground elevation (1150').

Procedure: Dig out around Conductor. Run 1" pipe to bottom of conductor and cement back to surface with Class A Cement @ 1.18 cu. ft./sk cement

Remove 1" pipe from conductor. ~~Weld dry hole cap, weld well name and API# on top of cap~~ - 3 feet below ground elevation. Back fill hole dug around conductor.
SDW

**Please note that the monument will comply with requirements outlined in CSR 34-5.5b

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NOV 17 2014
WV Department of
Environmental Protection

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

Work order approved by inspector Sam D Ward Date 11/14/2014

3305237P

WR-35
Rev (9-11)

State of West Virginia
Department of Environmental Protection
Office of Oil and Gas
Well Operator's Report of Well Work

DATE: 11/12/2014
API #: 47-033-05237

Farm name: Hill, David & Suellen Operator Well No.: Haymond NW Unit 3H (fka Haymond 3H)

LOCATION: Elevation: 1150' Quadrangle: Salem

District: Tenmile County: Harrison
Latitude: 3,931' Feet South of 39 Deg. 22 Min. 30 Sec.
Longitude 18,813' Feet West of 80 Deg. 32 Min. 30 Sec.

Company: Antero Resources Corporation

Address: 1615 Wynkoop Street	Casing & Tubing	Used in drilling	Left in well	Cement fill up Cu. Ft.
Denver, CO 80202	20" 94#	40'	40'	38 Cu. Ft.
Agent: CT Corporation System				
Inspector: Sam Ward				
Date Permit Issued: 5/18/2009, 8/5/2010 (Drill Deeper)				
Date Well Work Commenced: 6/11/2009				
Date Well Work Completed: 6/11/2009				
Verbal Plugging: N/A				
Date Permission granted on: N/A				
Rotary ✓ Cable ☐ Rig ☐				
Total Vertical Depth (ft): 40'				
Total Measured Depth (ft): 40'				
Fresh Water Depth (ft.): N/A				
Salt Water Depth (ft.): N/A				
Is coal being mined in area (N/Y)? No				
Coal Depths (ft.): N/A				
Void(s) encountered (N/Y) Depth(s) No				

OPEN FLOW DATA (If more than two producing formations please include additional data on separate sheet)
Producing formation N/A Pay zone depth (ft) N/A
Gas: Initial open flow ---- MCF/d Oil: Initial open flow ---- Bbl/d
Final open flow ---- MCF/d Final open flow ---- Bbl/d
Time of open flow between initial and final tests ---- Hours
Static rock Pressure ---- psig (surface pressure) after ---- Hours

Second producing formation _____ Pay zone depth (ft) _____
Gas: Initial open flow _____ MCF/d Oil: Initial open flow _____ Bbl/d
Final open flow _____ MCF/d Final open flow _____ Bbl/d
Time of open flow between initial and final tests _____ Hours
Static rock Pressure _____ psig (surface pressure) after _____ Hours

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I certify under penalty of law that I have personally examined and am familiar with the information submitted on this document and all the attachments 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.

Ashlei Steele 11-12-14
Signature Date

3305237P

Were core samples taken? Yes_____ No X

Were cuttings caught during drilling? Yes_____ No X

Were Electrical, Mechanical or Geophysical logs recorded on this well? If yes, please list No

NOTE: IN THE AREA BELOW PUT THE FOLLOWING: 1). DETAILS OF PERFORATED INTERVALS, FRACTURING OR STIMULATING, PHYSICAL CHANGE, ETC. 2). THE WELL LOG WHICH IS A SYSTEMATIC DETAILED GEOLOGICAL RECORD OF THE TOPS AND BOTTOMS OF ALL FORMATIONS, INCLUDING COAL ENCOUNTERED BY THE WELLBORE FROM SURFACE TO TOTAL DEPTH.

Perforated Intervals, Fracturing, or Stimulating:

N/A- Only Conductor Set

Plug Back Details Including Plug Type and Depth(s): N/A

Formations Encountered: Top Depth / Bottom Depth

Surface:

N/A

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NOV 17 2014
WV Department of
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WW-4A
Revised 6-07

1) Date: November 12, 2014
2) Operator's Well Number
Haymond NW Unit 3H

3) API Well No.: 47 - 033 - 05237

STATE OF WEST VIRGINIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS
NOTICE 0F APPLICATION TO PLUG AND ABANDON A WELL

4) Surface Owner(s) to be served:
(a) Name David W & Suellen H. Hill
Address 682 Haymond Woods Road
Salem, WV 26426

(b) Name
Address

(c) Name
Address

6) Inspector Sam Ward
Address 601 57th Street SE
Charleston, WV 25304
Telephone 304-389-7583

5) (a) Coal Operator
Name
Address

(b) Coal Owner(s) with Declaration
Name PLEASE SEE ATTACHMENT
Address

Name
Address

(c) Coal Lessee with Declaration
Name
Address

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 Antero Resources Corporation
By: Ward McNeilly
Its: Vice President of Engineering
Address 1615 Wynkoop Street
Denver, CO 80202
Telephone 303-357-7310

SAMANTHA MARSH
NOTARY PUBLIC
STATE OF COLORADO
NOTARY ID 20134079428
MY COMMISSION EXPIRES DECEMBER 20, 2017

Subscribed and sworn before me this 13th day of November 2014
Samantha Marsh Notary Public
My Commission Expires December 20, 2017

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 depprivacyoffier@wv.gov.

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WW-4A Notice of Application to Plug and Abandon a Well Attachment:

Coal Owner, Operator, Lessee(s) with Declarations:

Operator: American Mountaineer Energy, Inc.
Attn: Jason D. Witt
Address: 46226 National Road W
St. Clairsvle, OH 43950

Owner: Consolidation Coal Company
Consol Energy, Inc., CNX Center
Engineering & Operations Support - Coa
Attn: Analyst
Address: 1000 Consol Energy Drive
Canonsburg, PA 15317

Coal Owner, Operator, Lessee(s) Previously Notified on Original Permit Application (NO DECLARATIONS FILED**):**

Name: David W. & Suellen H. Hill
Address: 682 Haymond Woods Road
Salem, WV 26426

Name: J.E. Watson Trust B
James L. Laughlin, Trustee
Address: 5200 30th Street N
Arlington, VA 22207

Name: William L. Mitchell, Jr.
Address: 12800 Thomte, Rd. NE
Alburquerque, NM 87112

Name: Nora Jean Coleman
Address: RR 1 Box 55
Volga, WV 26238

Name: Suzan Sigmond
Address: 902 New Mark Esplanade
Rockville, MD 20850

Name: Charleston National Bank, now
JPMorgan Chase Bank,
National Association, trustee
c/o Sheldon F. Thompson
Oil, Gas & Mineral Manager
Address: 420 Throckmorton #200
Ft. Worth, TX 76102

Name: Willis G. Tetrick, Jr. Maxwell Y. Sutton & The Union National Bank of Clarksburg, now JPMorgan Chase Bank, National Association
c/o Sheldon F. Thompson
Oil, Gas & Mineral Manager
Address: 420 Throckmorton Suite 200
Ft. Worth, TX 76102

Name: Maxwell Y. Sutton, Trustee
JPMorgan Chase Bank
c/o Sheldon F. Thompson
Oil, Gas & Mineral Manager
Address: 420 Throckmorton Suite 200
Ft. Worth, TX 76102

Name: Guy Corporation
Tetrick Mineral Properties
Attn: Denise Harris
Address: 92 16th St., 2nd Floor
Wheeling, WV 26003

Name: James M. Sutton, trustee
Tetrick Mineral Properties
Attn: Denise Harris
Address: 92 16th St., 2nd Floor
Wheeling, WV 26003

Name: Jack A. Baldini, successor trustee
Address: 811 Poplar St.
Bridgeport, WV 26330

Name: JPMorgan Chase Bank, N.A.
c/o Sheldon F. Thompson
Address: Oil, Gas & Mineral Manager
420 Throckmorton Suite 200
Ft. Worth, TX 76102

Name: The Pittston Company
c/o CT Corporation System
Address: P.O. Box 951
Charleston, WV 25323

Name: The Pittston Company
Address: 17 Battery Place
New York, NY 10004

3305237P

Name: The Pittston Company
Service of Process: Roger D. Ketron
Address: P.O. Box 4000
Lebanon, VA 24266

Name: LJL, LLC
Address: 136 Carriage Lane
Bridgeport, WV 26330

Name: James J. LaRosa
Address: RR 2 Box 73
Bridgeport, WV 26330

Name: James D. LaRosa
Address: RR 2 Box 73
Bridgeport, WV 26330

Name: Little Buck Coal Company
Address: P.O. Box 397
Glenville, WV 26351

Name: Little Buck Coal Company
Address: 820 Aaron Smith Drive
Bridgeport, WV 26330

Name: Landaplenty, LLC
Address: P.O. Box 397
Glenville, WV 26351

Name: Hoyer Hoyer & Smith, PLLC
Address: 22 Capital Street
Charleston, WV 25301

Name: I.L. Morris and Mike Ross, Inc.
Bowles Rice McDavid Graff & Love, PLLC.
c/o Marc Monteleone
Address: P.O. Box 1386
600 Quarrier Street
Charleston, WV 25325

Name: American Mountaineer Energy Corporation
Address: Rural Route 2 Box 406, Suite 115
Clarksburg, WV 26301

Name: Murray Energy Corporation
Address: 56854 Pleasant Ridge Road
Alledonia, OH 43902

Name: Murray Energy Corporation
Address: 153 Hwy 7 South
Powhatan Point, OH 43942

Name: Murray Energy Corporation
Address: 101 Properous Place, Suite 125
Lexington, KY 40509

Name: American Mountaineer Energy, Inc.
Subsidiary of Murray Energy Corporation
Address: 29325 Chagrin Boulevard, Suite 300
Beachwood, OH 44122

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3305237P

WW-9
Rev. 5/08

Page _____ of _____
API Number 47 - 033 - 05237
Operator's Well No. Haymond NW Unit 3H

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 Antero Resources Corporation OP Code 494488557

Watershed Tributary of Indian Run Quadrangle Salem

Elevation 1150' County Harrison District Tenmile

Description of anticipated Pit Waste: No pit will be used at this site (All fluids will be stored in tanks and either reused or hauled off site.)

Will a synthetic liner be used in the pit? N/A.

Proposed Disposal Method For Treated Pit Wastes:

_____ Land Application
_____ Underground Injection (UIC Permit Number_____)
X Reuse (at API Number Future permitted well locations when applicable. API# will be provided on Form WR-34)
X Off Site Dispposal (Meadowfill Landfill Permit #SWF-1032-98)
_____ Other (Explain_____

Proposed Work For Which Pit Will Be Used:

11/14/2014

_____ Drilling _____ Swabbing
_____ Workover _____ Plugging
_____ Other (Explain_____

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 W. McNeilly

Company Official (Typed Name) Ward McNeilly

Company Official Title Vice President of Engineering

NATALIE KOMP
NOTARY PUBLIC
STATE OF COLORADO
NOTARY ID # 20144028170
MY COMMISSION EXPIRES JULY 18, 2018

Subscribed and sworn before me this 13th day of November, 20 14

Natalie Komp Notory Public

My commission expires July 18, 2018

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NOV 17 2014
WV Department of
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Form WW-9

Operator's Well No. Haymond NW Unit 3H

LEGEND

Property Boundary
Road
Existing Fence
Planned Fence
Stream
Open Ditch
Rock
North N
Buildings
Water wells
Drill site
Diversion
Spring
Wet Spot
Drain Pipe with size in inches
Waterway
Cross Drain
Artificial Filter Strip
Pit: cut walls
Pit: compacted fill walls
Area for Land Application of Pit Waste

(Approximate Disturbed Acreage: Existing Pad 2.25 + Existing Access Road 0.75 + Existing Fresh Water Impoundment 1.20 + Existing Additional Clearing 1.31 = 5.51 Existing Acres)

Proposed Revegetation Treatment: Acres Disturbed 0.00 (Existing 5.51) Prevegetation pH _____

Lime 2-3 Tons/acre or to correct to pH 6.5

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

Mulch 2-3 Tons/acre (Hay, straw or wood fiber (will be used where needed)

Seed Mixtures

Area I		Area II	
Seed Type	lbs/acre	Seed Type	lbs/acre
*Seeding will be as per the Hill-Antero Surface Use Agreement		*Seeding will be as per the Hill-Antero Surface Use Agreement	
A pasture or meadow mix seed mixture will be used with prior approval		A pasture or meadow mix seed mixture will be used with prior approval	
from Mr. David Hill or Suellen Hill		from Mr. David Hill or Suellen Hill	

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

Photocopied section of involved 7.5' topographic sheet.

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NOV 17 2014
WV Department of
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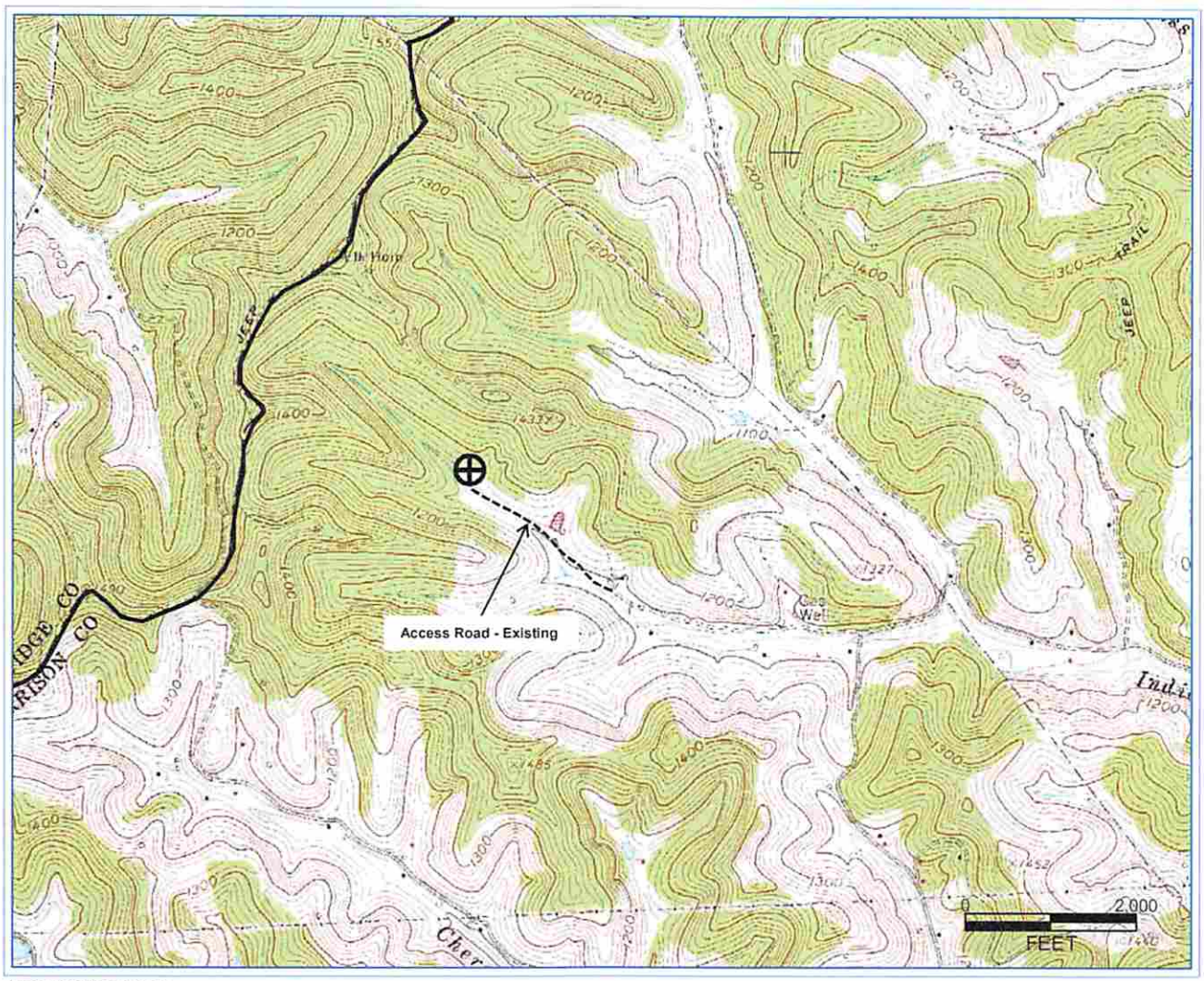
Plan Approved by: S P Wanatt

Comments: _____

Title: Oil + Gas Inspector Date: 11/14/2014

Field Reviewed? (_____) Yes (X) No

3305237P



PETRA 4/14/2009 12:09:41 PM

Antero Resources Corporation

APPALACHIAN BASIN

Haymond NW Unit 3H

Harrison County

0 2,000 4,000
FEET

REMARKS
QUADRANGLE: SALEM
WATERSHED: TRIBUTARY OF INDIAN RUN
DISTRICT: TENMILE

Date: 7/12/10

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NOV 17 2014
WV Department of
Environmental Protection

3305237 P

WW-7
8-30-06

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

API: 47-033-05237-00 **WELL NO.:** Haymond NW Unit 3H

FARM NAME: Hill, David & Suellen

RESPONSIBLE PARTY NAME: Antero Resources Corporation

COUNTY: Harrison **DISTRICT:** Tenmile

QUADRANGLE: Salem

SURFACE OWNER: David & Suellen Hill

ROYALTY OWNER: Luther Haymond Lease #00722

UTM GPS NORTHING: 4352750.41 *Converted UTM coordinates per Permitted Survey Plat

UTM GPS EASTING: 538391.05 **GPS ELEVATION:** 1150'

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 X : Post Processed Differential X

Real-Time Differential ____

Mapping Grade GPS ____: Post Processed Differential ____

Real-Time Differential ____

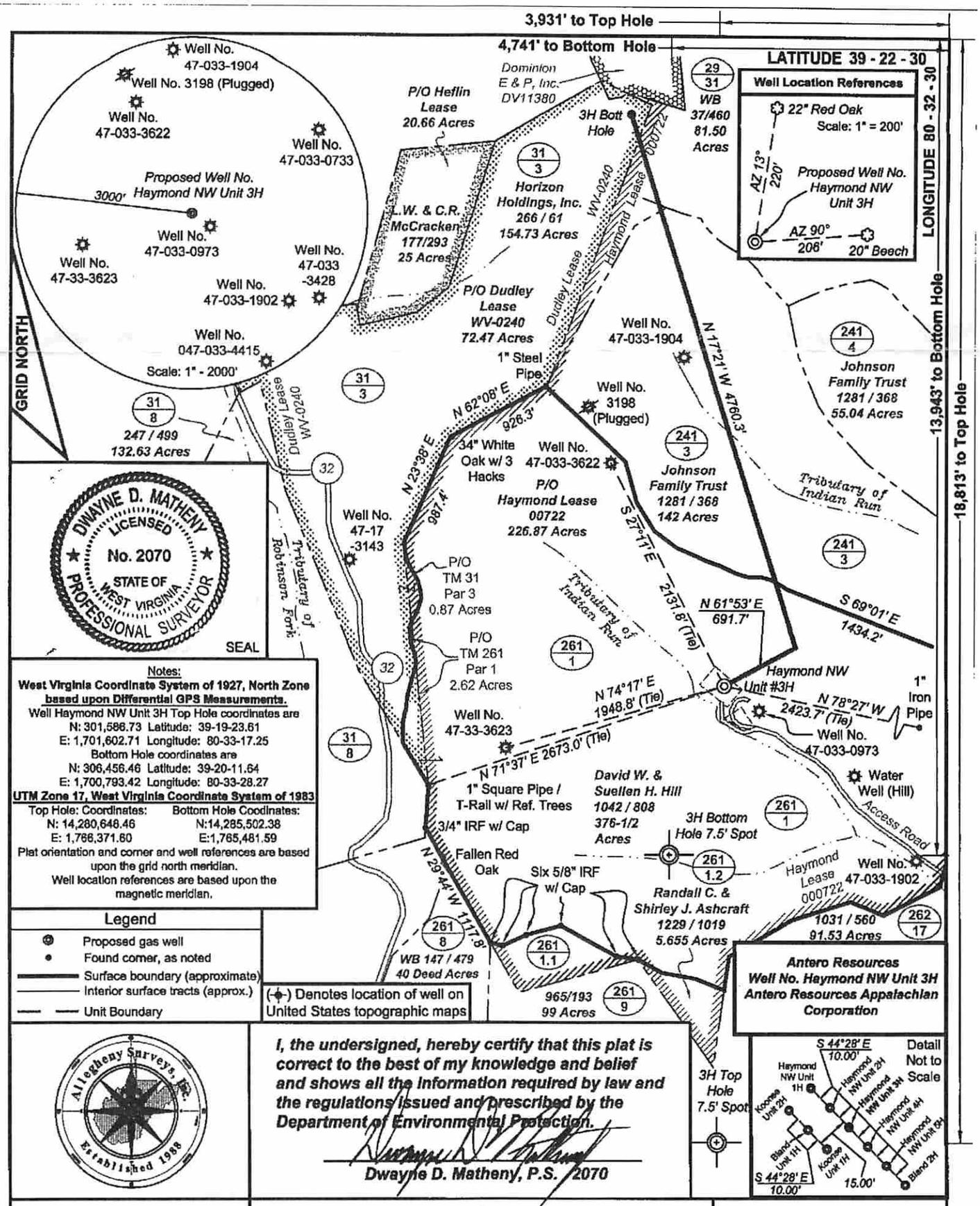
4. **Letter size copy of the topography map showing the well location.**

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 prescribed by the Office of Oil and Gas.

Ashlei Steele — Signature

Permitting Supervisor — Title

4/13/2015 — Date



FILE NO: 25-36-T-09
DRAWING NO: Haymond NW Unit 3H Plat
SCALE: 1" = 1000'
MINIMUM DEGREE OF ACCURACY: 1:2500
PROVEN SOURCE OF ELEVATION: CORS Glenville, WV

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

DATE: July 12 20 10
OPERATOR'S WELL NO. Haymond NW Unit 3H
API WELL NO:
47 - 033 - 05237P
STATE COUNTY PERMIT

WELL TYPE: ☐ OIL ☒ GAS ☐ LIQUID INJECTION ☐ WASTE DISPOSAL
(IF GAS) PRODUCTION: ☐ STORAGE ☐ DEEP ☒ SHALLOW
LOCATION: ELEVATION: 1150' WATERSHED Tributary of Indian Run
QUADRANGLE: Salem DISTRICT: Tenmile COUNTY: Harrison
SURFACE OWNER: David W. & Suellen H. Hill ACREAGE: 376 - 1/2
OIL AND GAS ROYALTY OWNER: Luther Haymond; E.C. & J.B. Dudley LEASE NO: 000722; WV-0240 ACREAGE: 1,300 / 154.73
PROPOSED WORK: ☒ DRILL ☐ CONVERT ☐ DRILL DEEPER ☒ FRACTURE OR STIMULATE ☐ PLUG OFF OLD FORMATION
☒ PERFORATE NEW FORMATION ☐ OTHER PHYSICAL CHANGE IN WELL (SPECIFY) PLUG Conductor
☐ PLUG AND ABANDON ☐ CLEAN OUT AND REPLUG TARGET FORMATION: Marcellus Shale ESTIMATED DEPTH: 12,720'

WELL OPERATOR: Antero Resources Appalachian Corporation
ADDRESS: 1625 17th Street, Denver, CO 80202
DESIGNATED AGENT: CT Corporation System
ADDRESS: 707 Virginia Street East, 16th Floor, Charleston, WV 25301