Tuesday, January 02, 2018
WELL WORK PERMIT
Vertical / Plugging

EQT PRODUCTION COMPANY
625 LIBERTY AVE., SUITE 1700
PITTSBURGH, PA 15222

Re: Permit approval for 1467
47-085-00016-00-00

This well work permit is evidence of permission granted to perform the specified well work at the location described on the attached pages and located on the attached plat, subject to the provisions of Chapter 22 of the West Virginia Code of 1931, as amended, and all rules and regulations promulgated thereunder, and to any additional specific conditions and provisions outlined in the pages attached hereto. Notification shall be given by the operator to the Oil and Gas Inspector at least 24 hours prior to the construction of roads, locations, and/or pits for any permitted work. In addition, the well operator shall notify the same inspector 24 hours before any actual well work is commenced and prior to running and cementing casing. Spills or emergency discharges must be promptly reported by the operator to 1-800-642-3074 and to the Oil and Gas Inspector.

Please be advised that form WR-35, Well Operators Report of Well Work is to be submitted to this office within 90 days of completion of permitted well work, as should form WR-34 Discharge Monitoring Report within 30 days of discharge of pits, if applicable. Failure to abide by all statutory and regulatory provisions governing all duties and operations hereunder may result in suspension or revocation of this permit and, in addition, may result in civil and/or criminal penalties being imposed upon the operators.

Per 35 CSR 4-5.2.g this permit will expire in two (2) years from the issue date unless permitted well work is commenced. If there are any questions, please feel free to contact me at (304) 926-0450.

James A. Martin
Chief

Operator’s Well Number: 1467
Farm Name: PRITCHARD, F. E.
U.S. WELL NUMBER: 47-085-00016-00-00
Vertical / Plugging
Date Issued:

Promoting a healthy environment.
PERMIT CONDITIONS

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

CONDITIONS

1. All pits must be lined with a minimum of 20 mil thickness synthetic liner.

2. In the event of an accident or explosion causing loss of life or serious personal injury in or about the well or while working on the well, the well operator or its contractor shall give notice, stating the particulars of the accident or explosion, to the oil and gas inspector and the Chief within twenty-four (24) hours.

3. Well work activities shall not constitute a hazard to the safety of persons.

4. This well is under a consent order and must be plugged under the terms of that agreement.
4) Well Type: Oil ________ Gas _____ X _____ Liquid Injection ________ Waste Disposal ________
   If Gas, Production ________ X ________ Or Underground storage ________ Deep ________ Shallow ________ X ________

5) Elevation: 1132 ft. Watershed: White Oak
   Location: Union County: Ritchie Quadrangle: Pullman 7.5'
   District: ________

6) EQT Production Company
   Well Operator: 120 Professional Place
   Address: Bridgeport, WV 26330

7) Designated Agent: Rex C. Ray
   Address: 120 Professional Place
   Bridgeport, WV 26330

8) Oil & Gas: Michael Goff
   Name: 1723 Auburn Road
   Address: Pullman, WV 26421

9) Plugging Contractor: HydroCarbon Well Service
   Name: PO BOX 995
   Address: Buckhannon, WV 26201

10) Work Order: The work order for the manner of plugging this well is as follows:
    See Attachment for details and procedures.
PLUGGING PROGNOS

655966
F.E. Pritchard
API# 47-085-00016
District, Union
Ritchie County, WV

By R. Green
DATE: 10/16/17

CURRENT STATUS:

TD @ 2203'
Elevation @ 1148' (1132')

13" wooden conductor @ 16'
10" casing @ 288'
8 1/4" casing @ 1315'
* 6 5/8" casing @ 1770'
* 5 3/16" casing @ 2121' (Set on 5 3/16" X 6 5/8" packer @ 2121')
3" tubing @ 2203' (Set on 3" X 5 3/16" packer @ 2161')

Fresh Water @ None Reported
Saltwater@ 1648'
Oil Show @ 1370'
Gas shows @ 2191'
Coal @ None reported

1. Notify inspector, Michael Goff @ 304-549-9823, 24 hours prior to commencing operations
2. THI check TD @ or below 2161'.
3. THI cut 3" tubing @ 2161', TOOH tubing.
4. THI to 2161', spot 30 bbl of 6% gelled water followed by a 250' C1A cement plug, 2161' to 1911', (3" packer and 5 3/16" casing seat.)
5. WOC 8hrs. Tag TOC add additional C1A cement if necessary.
6. Free point 5 3/16" casing. Cut casing @ free point, TOOH casing.
7. Set 100' C1A cement plug 50' in/out of casing cut, perforate all freshwater, saltwater, coal, oil and gas shows below cut. Do not omit any plugs.
8. TOOH to 1850' set 200' C1A cement plug 1850' to 1650'. (6 5/8" casing seat.)
9. Free point 6 5/8" casing. Cut casing @ free point, TOOH casing.
10. Set 100' C1A cement plug 50' in/out of casing cut, perforate all freshwater, saltwater, coal, oil and gas shows below cut. Do not omit any plugs.
11. TOOH to 1365', set 100' C1A cement plug, 1365' to 1265'. (8 1/4" casing seat).
12. Free point 8 1/4" casing. Cut casing @ free point, TOOH casing.
13. Set 100' C1A cement plug 50' in/out of casing cut, perforate all freshwater, saltwater, coal, oil and gas shows below cut. Do not omit any plugs.
14. TOOH to 1200', set 100' C1A cement plug, 1200' to 1100'. (Elevation)
15. TOOH to 700', set 250' C1A cement plug, 700' to 450'. (Safety plug).
16. TOOH to 338', set 100' C1A cement plug, 338' to 238'. (10" casing seat).
17. Free point 10" casing. Cut casing @ free point, TOOH casing.
18. Set 100' C1A cement plug 50' in casing cut to surface, perforate all freshwater, saltwater, coal, oil and gas shows below cut. Do not omit any plugs.

* 6 5/8" & 5 3/16" MAX ACT AS ONE STRING. IF YOU ARE NOT ABLE TO SEPARATE ONE STRING FROM THE OTHER, THEN FREE POINT, CUT & PULL WITH A FORCE ≥ 150% OF THE WEIGHT OF THE COMBINED STRING. MAY HAVE TO PERFORATE THROUGH BOTH 6 5/8" & 5 3/16" TO COVER NECESSARY ZONES. 9/AM
19. * Note if unable to cut and pull 10" casing, TIH and perforate 10" casing with 4 holes each @ 200', 150', 100', & 75'. TIH and set 238' CIA cement plug 238' to surface.
20. Erect monument with API#, date plugged, company name.
21. Reclaim location and road to WV-DEP specifications.
WEST VIRGINIA DEPARTMENT OF MINES
Oil and Gas Section
PRELIMINARY DATA SHEET NO. 1

Pile No. 16
Lease #11122
Well No. 1467

CARNegie NATURAL GAS COMPANY Company of 962 Frick Building Annex
Pittsburgh, Penna. on the F. E. Pritchard Farm
containing 75 acres. Location

Union District, in Ritchie County, West Virginia.

The surface of the above tract is owned in fee by F. E. Pritchard of

The oil and gas privileges are held under lease by the above named company, and this well is drilled under
permit No. None issued by the West Virginia Department of Mines, Oil and Gas Section,
December 16th 1930

Elevation of surface at top of well, 1148

The number of feet of the different sized casings used in the well.

16 feet 13" size. Wood conductor

288 feet 10" size, e.g 2121 feet 5-7/16" sized e.g.

1315 feet 83/4" size, e.g. 2203 feet 3" tubed size e.g.

1770 feet 6-5/8" size, e.g. 6058 feet 3" sized e.g.

Bottom Hole packer of 6-5/8 x 5-3/16" size, set at 2121

Anchor packer of 5-5/16 x 3" size, set at 2161

in casing perforated at 2110 feet to 2160 feet

in casing perforated at 2160 feet to 2161 feet

Coal was encountered at None feet; thickness None inches, and at

feet; thickness None inches; and at feet; thickness None inches.

Liners were used as follows: (Give details)

RECEIVED
Office of Oil and Gas

NOV. 22, 1930

WW Department of
Environmental Protection

Date.

Approved CARNegie NATURAL GAS COMPANY, Owner.

By Signature (Date) Land Agent
<table>
<thead>
<tr>
<th>Name</th>
<th>Color</th>
<th>Character</th>
<th>Oil, Gas or Water</th>
<th>Top</th>
<th>Bottom</th>
<th>Thickness</th>
<th>Total Depth</th>
<th>Remarks</th>
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</thead>
<tbody>
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<td>Conductor</td>
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<tr>
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<td>1190</td>
<td>1220</td>
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<tr>
<td>Gas Sand</td>
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<td></td>
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<td>1350</td>
<td>1395</td>
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<td>Show Oil at 1370'</td>
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<tr>
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<td></td>
<td>1570</td>
<td>1600</td>
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<tr>
<td>2nd Salt Sand</td>
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<td>1630</td>
<td>1670</td>
<td></td>
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<td>Hole full water at 1648'</td>
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<tr>
<td>3rd Salt Sand</td>
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<td>1960</td>
<td>2005</td>
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<tr>
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<td></td>
<td></td>
<td></td>
<td>2050</td>
<td>2083</td>
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<tr>
<td>Pencil Cave</td>
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<td></td>
<td>2083</td>
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<tr>
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<td>2098</td>
<td>2170</td>
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<td>Big Injun</td>
<td></td>
<td></td>
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<td>2170</td>
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<td></td>
<td>Gas at 2191-2193'</td>
</tr>
</tbody>
</table>

**RECEIVED**
Office of Oil and Gas  
NOV 22 2017

WV Department of Environmental Protection

Well was not shot at 2190-2193 feet; well was shot at ... feet.

Salt
Fresh water at ... feet; fresh water at ... feet.

Well was Gas hole.

November 5, 1930

Approved

CARNEGIE NATURAL GAS COMPANY

Date

Owner

NOTE: All bottom formations must be noted as indicated above and all key-rocks and oil and gas sands must be recorded under their proper geological names in the district as well as any local names commonly used in the district for such strata.
Plat of the Proposed Location of Well No. 1467 of the
CARNEGIE NATURAL GAS COMPANY of Pittsburgh, Penna., on
the farm of F.E. Pritchard, consisting of 75 Acres.
Located in Union Dist. Ritchie County.
West Virginia Holbrook N.W. Quadrangle.
10/29/29 Date 1148' Elevation 1140' Scale.

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NOV 2 2 2017
WV Department of Environmental Protection

I, the undersigned, hereby certify that this map is correct and shows all the information to the best of my knowledge and belief, required by the oil and gas section of the Mining Laws of West Virginia.

[Signature]
Engineer.

State of Pennsylvania
County of Allegheny
Acknowledged before me a Notary Public this 21st day of Nov. 1939.
STATE OF WEST VIRGINIA - BUREAU OF ENVIRONMENT
DIVISION OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL & GAS
NOTICE AND APPLICATION TO PLUG AND ABANDON WELL

4) Surface Owner(s) to be served:
(a) Name: Jack and Linda Langford
   Address: 1487 White Oak Road
             Pullman, WV 26421

(b) Name: Albert and Dorothy Kehrer
   Address: 1500 White Oak Road
             Pullman, WV 26421

(c) Name: Fred Constable, et al.
   Address: 103 London Court
             Bridgeport, WV 26330

5) (a) Coal Operator:
   Name: None
   Address:

   (b) Coal Owner(s) with Declaration
       Name: Jack and Linda Langford
       Address: 1487 White Oak Road
                 Pullman, WV 26421

       Name: Albert and Dorothy Kehrer
       Address: 1500 White Oak Road
                 Pullman, WV 26421

6) Inspector
   Name: Michael Goff
   Address: 1723 Auburn Road
             Pullman, WV 26421
   Telephone:

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 reverse 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 Division 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:  
EQT Production Company
By:  
Victoria J. Roark
Its:  
Regional Land Supervisor
Address:  
PO Box 280
Bridgeport, WV 26330
Telephone:  
(304) 848-0076

Subscribed and sworn before me this 14th day of November, 2017
My Commission Expires: 2/20/18

The Office of Oil & Gas processes your personal information, such as name, address and phone number, as 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 OOG’s Chief Privacy Officer at depwaveymofficer@wv.gov.
STATE OF WEST VIRGINIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION
OFFICE OF OIL & GAS
FLUIDS / CUTTINGS DISPOSAL & RECLAMATION PLAN

Operator Name: EQT PRODUCTION COMPANY
OP CODE: __________________________

Watershed (HUC 10): White Oak Quadrangle: Pullman 7.5'  
Do you anticipate using more than 5,000 bbls of water to complete the proposed well work? Yes ___ No X
Will a pit be used? Yes X No ___
If so, please describe anticipated pit waste:
Will a synthetic liner be used in the pit? Yes X No ___
Is so, what ml.? 20 10 ml

Formation Fluids

Proposed Disposal Method for Treated Pit Wastes:
______________________________ Land Application (if selected provide a completed form WW-9-GPP)
______________________________ Underground Injection (UIC Permit Number _______________)
X ___________________________ Reuse (at API Number -- Various)
X ___________________________ Off Site Disposal Permit (Supply form WW-9 for disposal location. See attachment)
______________________________ Other: (Explain ______________________________________________________________________)

Will closed loop system be used? If so, describe: _______________________________________________________

Drilling medium anticipated for this well? (vertical and horizontal)? Air, freshwater, oil based, etc. __________
If oil based, what type? Synthetic, petroleum, etc. __________
Additives to be used in drilling medium? __________

Drill cuttings disposal method? Leave in pit, landfill, remove offsite, etc. __________
If left in pit and plan to solidify what medium will be used? (cement, Lime, sawdust) __________
Landfill or offsite name/permit number? __________

Permittee shall provide written notice to the Office of the Oil and Gas of any load of drill cuttings or associated waste rejected at an
West Virginia solid waste facility. The notice shall be provided within 24 hours of rejection and the permittee shall also disclose
where it was properly disposed.

I certify that I understand and agree to the terms and conditions of the GENERAL WATER POLLUTION PERMIT issued on
April 1, 2016, by the Office of Oil and Gas of the West Virginia Division 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.

Company Official Signature __________________________
Company Official (Typed Name) Victoria J. Roark
Company Official Title Regional Land Supervisor - WV
Subscribed and sworn before me this 4th day of November, 2018
My Commission Expires 2/20/18

Notary Public

(Seal)
LEGEND

Property Boundary

Road

Planned Fence

Existing Fence

Open Ditch

Spring

Drain Pipe with size in inches

Stream

Cross Drain

Diversion

Wet Spot

Water Way

Artificial Filter Strip

Rock

North

Building

Water well

Drill site

Pit with Cut Walls

Pit with Compacted Walls

Area of Land Application of Pit Waste

Proposed Revegetation Treatment: Acres Disturbed: 1±

Prevegetation pH

Lime 3 Tons/acre or to correct to pH 6.5

Fertilizer (10-20-20) or equivalent 1/3 ton lbs/acre (500 lbs minimum)

Mulch 2 Tons/acre or hydrosed.

SEED MIXTURES

Area I

Seed Type | lbs/acre | Seed Type | lbs/acre
---|---|---|---
Red Fescue | 40 | Red Fescue | 15
Alsike Clover | 5 | Alsike Clover | 5
Annual Rye | 15 | |

Area II


ATTACH:

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

Photocopies section of involved 7.5’ topographic sheet.

Plan approved by: ____________________________

Comments: ____________________________

Title: ____________________________ Date: ____________________________

Field Reviewed? Yes No
EQT Production Water plan
Offsite disposals

Waste Management - Meadowfill Landfill
Rt. 2, Box 68 Dawson Drive
Bridgeport, WV 26330
304-326-6027
Permit #SWF-1032-98
Approval #100785WV

Waste Management - Northwestern Landfill
512 E. Dry Road
Parkersburg, WV 26104
304-428-0602
Permit #SWF-1025 WV-0109400
Approval #100833WV
POTENTIAL WATER SAMPLE DATA SHEET

CLIENT: EOT PRODUCTION COMPANY
LEASE NAME AND WELL No. Pritchard #1467 - WV 655966 - API No. 47-085-00016

POTENTIAL SAMPLE LOCATIONS

There appears to be no known water samples within the required 1000' of the existing well WV 655966.

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Office of Oil and Gas
NOV 22 2017
WV Department of Environmental Protection
Water

47-085-00016 WV 655966 (Pritchard #1467)

No Potential Water Sources within 1000'

NAD 27, North Zone
N: 264,674.17
E: 1,606,458.36

WGS 84
LAT: 39.218416
LONG: -80.888877
ELEV: 1,131.82

SURVEYING AND MAPPING SERVICES PERFORMED BY:
ALLEGHENY SURVEYS, INC.
1-800-882-8606
237 Birch River Road
Birch River, WV 26610
PH: (304) 649-8606
FAX: (304) 649-8608

PREPARED FOR:
EQT Production Company
P.O. Box 280
Bridgeport, WV 26330
West Virginia Department of Environmental Protection
Office of Oil and Gas
WELL LOCATION FORM: GPS

API: 47-085-00016  WELL NO.: WV 655966 (Pritchard #1467)

FARM NAME: F. E. Pritchard

RESPONSIBLE PARTY NAME: EQT Production Company

COUNTY: Ritchie  DISTRICT: Union

QUADRANGLE: Pullman 7.5’

SURFACE OWNER: Jack Langford, et al.

ROYALTY OWNER: Jack Langford, et al.

UTM GPS NORTHING: 4341021

UTM GPS EASTING: 509593  GPS ELEVATION: 345 m (1132 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:

2. Accuracy to Datum – 3.05 meters
3. Data Collection Method:
   Survey grade GPS ______: Post Processed Differential ______
   Real-Time Differential ______
   Mapping Grade GPS X: Post Processed Differential X
   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.

[Signature]  [Title]  [Date]

RECEIVED
Office of Oil and Gas

NOV 22 2017
WV Department of Environmental Protection
U.S. Postal Service
CERTIFIED MAIL® RECEIPT
Domestic Mail Only

For delivery information, visit our website at www.usps.com

OFFICIAL USE

Certified Mail Fee
$ 

Extra Services & Fees (please box, and fee as appropriate)
$ 

Return Receipt (hardcopy)
$ 

Return Receipt (electronic)
$ 

Certified Mail Restricted Delivery
$ 

Adult Signature Required
$ 

Adult Signature Restricted Delivery
$ 

Postage
$ 

Total Paid
$ 

Send To:
Fred Constable et al
103 London Ct
Bridgeport WV 26330

City/State:
655966 Plugging

PS Form 3800, April 2015
See Reverse for Instructions

metroset: 9080

CERTIFIED MAIL

SIGNATURE:

X

A. Signature

B. Received by (Printed Name)

C. Date of Delivery

D. Is delivery address different from item 1? Yes No

If YES, enter delivery address below:

1. 
Fred Constable et al
103 London Ct
Bridgeport WV 26330

655966 Plugging

3. Service Type

☐ Priority Mail Express
☐ Registered Mail
☐ Certified Mail

☐ Priority Mail Express
☐ Registered Mail
☐ Certified Mail

2017 2400 0000 0392 0229
2017 2400 0000 0393 0229
2017 2400 0000 0393 0229