



west virginia department of environmental protection

Office of Oil and Gas
601 57th Street, S.E.
Charleston, WV 25304
(304) 926-0450
fax: (304) 926-0452

Austin Caperton, Cabinet Secretary
www.dep.wv.gov

Wednesday, August 5, 2020
WELL WORK PLUGGING PERMIT
Vertical Plugging

EQT PRODUCTION COMPANY
625 LIBERTY AVE., SUITE 1700

PITTSBURGH, PA 15222

Re: Permit approval for 162
47-017-01996-00-00

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.

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. Please be advised that form WR-38, Affidavit of Plugging and Filling Well, 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: 162
Farm Name: WACO OIL AND GAS COMP⁺
U.S. WELL NUMBER: 47-017-01996-00-00
Vertical Plugging
Date Issued: 8/5/2020

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.

- 1) Date April 29, 2020
- 2) Operator's Well No. 650401 A J Ashcraft #162
- 3) API Well No. 47-017 - 01996 P

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 ___ or Underground storage ___) Deep ___ / Shallow X
- 5) Location: Elevation 1250' Watershed Sycamore
District McClellan County Doddridge Quadrangle Folsom 7.5'
- 6) Well Operator EQT Production Company 7) Designated Agent Joseph C. Mallow
Address 400 Woodcliff Drive Address 115 Professional Place
Canonsburg PA 15317 Bridgeport WV 26330
- 8) Oil and Gas Inspector to be notified Name Daniel Flack
Address 58 Rive Road
Buckhannon, WV 26201
- 9) Plugging Contractor Name HydroCarbon Well Service
Address PO Box 995
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.

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MAY 11 2020
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 *[Signature]* Date 5-5-2020

PLUGGING PROGNOSIS

Ashcraft # 162 (650401) **No well records**
 District,
 Doddridge, WV
 API # 47-017-01996

BY: Craig Duckworth
 DATE: 01/13/2020

CURRENT STATUS:

TD @ unknown (no well records)
Elevation @

csg @ unknown

Freshwater, @ No Record
 Saltwater @ No Record
 Gas shows @ No record
 Oil shows @ No Record
 Coal @ No Record

1. Notify state inspector, **Daniel Flack 304-545-0109** 48 hrs. Prior to commencing operations.
2. TIH wireline, check fluid level, TD and find bottom of 5" casing also identify 5" depth.
3. Notify EQT rep and WV DEP Inspector of information for perforating and cement schedule.
4. Attempt to shoot off 5" csg above identified free point and attempt to pull 5" csg.
5. If 5" csg will not pull coming up hole 100' and attempt to shoot off 5" csg and attempt to pull 5" csg out of hole.
6. If 5" csg will not pull, TIH w/ 1 1/2" tubing to top of shot and set 100' CIA cement plug from top of shot depth to 100' above 5" free point and let cement cure. TOOH with csg completely.
7. If 5" csg can be pulled, TIH w/tbg to 5" packer and set 100' CIA cement plug from top of free point to 100' above 5" free point. TOOH with csg completely. Let cement cure.
8. TIH w/ wireline and collar locator and find the bottom of it looks like 8" csg and identify it. TOOH w/ wireline.
9. TIH w/tbg to last cement top and cement from last cement top to 50' inside the identified casing seat depth. TOOH w/tbg. Let cement cure.
10. Free point csg, cut csg at free point, TOOH csg.
11. Set 100' CIA cement plug 50' in/out of casing cut, perforate elevation, coal, oil and gas shows below cut if any are identified. Do not omit any plugs.

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 Environmental Protection

12. Repeat process of identifying and casing seats until the well is plugged to EQT Rep and WV DEP Inspector's directions.
13. Erect monument with API#, date plugged, company name, and company 6-digit ID #.
14. Reclaim location, road to WV-DEP specifications.

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017-1966

RECORD OF ANY DEEPER DRILLING					PACKER RECORD		
Formation	Top	Bottom	Oil at	Gas at	Size	Kind	Seal (Steel)
Commenced drilling at depth of					5 1/2" Casing ran on steel shoe @ 211'		
(Note: See other side for gamma ray log)							
No deeper drilling					PACKER PULLED		
					Size 6-5/8 x 2" Kind Hook Wall		
					OIL PRODUCTION		
					Estimated None bbl. per day		
					CLARESBURG OFFICE ENTRIES		
					Repair Card		
					Well Card		
					Memo Book		
					Wall Map		
					Map Sheets		
Total Depth					2520 ✓		

VOLUME AND PRESSURE REPORT							
BEFORE CLEANING OUT (Take Test When Ready to Clean Out)							
Date of Test	Flow Meter or Open Flow	Reading	Liquid Used	Opening	CUBIC FEET	Sands Gas From	Time Blown
			Gas down out				

AFTER CLEANING OUT							
Date of Test	Flow Meter or Open Flow	Reading	Liquid Used	Opening	CUBIC FEET	Sands Gas From	Time Blown
June 5, 1957	FM	50/10	water	1"	53,251	30 Foot	4 h

AFTER DRILLING DEEPER							
Date of Test	Flow Meter or Open Flow	Reading	Liquid Used	Opening	CUBIC FEET	Sands Gas From	Time Blown
			None	NOT DRILLED DEEPER			

PRESSURE TEST														
Date of Test	Opening	1 Min.	2 Min.	3 Min.	4 Min.	5 Min.	6 Min.	7 Min.	8 Min.	9 Min.	10 Min.	30 Min.	60 Min.	Remarks
June 5, 1957	5-1/2" Casing	0	1	3	5	6	7	8	10	11	12	31	52	
	" Tubing													

ON OTHER SIDE OF THIS FORM, MAKE DETAILED REPORT OF WORK DONE, TOGETHER WITH NAMES OF DRILLERS, TOOL DRESSERS, C. O. CREW, ETC.

Geo. R. McBurney
DISTRICT SUPERVISOR

RECEIVED
Department of Oil and Gas
11 2020
Department of Environmental Protection

47-017 - 01996A

WW-4A
Revised 6-07

1) Date: April 30, 2020
2) Operator's Well Number
650401 A J Ashcraft #162
3) API Well No.: 47 - 017 - 01996

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

<p>4) Surface Owner(s) to be served:</p> <p>(a) Name <u>Waco Oil & Gas Co</u> Address <u>PO Box 397</u> <u>Glenville, WV 26351</u></p> <p>(b) Name _____ Address _____</p> <p>(c) Name _____ Address _____</p>	<p>5) (a) Coal Operator</p> <p>Name _____ Address _____</p> <p>(b) Coal Owner(s) with Declaration</p> <p>Name <u>Beatrice Ashcraft et al</u> Address <u>1360 Baroque Ave</u> <u>Volo, IL 60073</u></p> <p>Name _____ Address _____</p> <p>(c) Coal Lessee with Declaration</p> <p>Name _____ Address _____</p>
<p>6) Inspector</p> <p>Address <u>Daniel Flack</u> <u>58 Rive Road</u> <u>Buckhannon, WV 26201</u></p> <p>Telephone <u>304-545-0109</u></p>	

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 EQT Production Company
 By: Erin Spine *[Signature]*
 Its: Supervisor - Subsurface Permitting
 Address 400 Woodcliff Drive
Canonsburg PA 15317
 Telephone (724) 271-7380

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Office of Oil and Gas
MAY 11 2020
WV Department of Environmental Protection

Subscribed and sworn before me this 30th day of April 2020

My Commission Expires March 9, 2024 *[Signature]* Notary Public

Commonwealth of Pennsylvania - Notary Seal
 Rebecca Shrum, Notary Public
 Beaver County
 My commission expires March 9, 2024
 Commission number 1267706
 Member, Pennsylvania Association of Notaries

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.

WW-9
(5/16)

47-017-01996P

API Number 47 - 017 - 01996
Operator's Well No. 650401 A J Ashcraft #162

STATE OF WEST VIRGINIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION
OFFICE OF OIL AND GAS
FLUIDS/ CUTTINGS DISPOSAL & RECLAMATION PLAN

Operator Name EQT Production Company OP Code 306686

Watershed (HUC 10) Sycamore Quadrangle Folsom 7.5'

Do you anticipate using more than 5,000 bbls of water to complete the proposed well work? Yes No

Will a pit be used? Yes No

If so, please describe anticipated pit waste: _____

Will a synthetic liner be used in the pit? Yes No If so, what ml.? _____

Proposed Disposal Method For Treated Pit Wastes:

- Land Application (if selected provide a completed form WW-9-GPP)
- Underground Injection (UIC Permit Number _____)
- Reuse (at API Number _____)
- Off Site Disposal (Supply form WW-9 for disposal location)
- Other (Explain _____)

Will closed loop 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, removed offsite, etc. _____

-If left in pit and plan to solidify what medium will be used? (cement, lime, sawdust) _____

-Landfill or offsite name/permit number? _____

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

I certify that I understand and agree to the terms and conditions of the GENERAL WATER POLLUTION PERMIT issued on April 1, 2016, by the Office of Oil and 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 *Erin Spine*

Company Official (Typed Name) Erin Spine

Company Official Title Supervisor - Subsurface Permitting

Office of Oil and Gas
MAY 11 2020
WV Department of Environmental Protection

Subscribed and sworn before me this 30th day of April, 20 20

Rebecca Shrum Notary Public

My commission expires March 9, 2024

Commonwealth of Pennsylvania - Notary Seal
Rebecca Shrum, Notary Public
Beaver County
My commission expires March 9, 2024
Commission number 1267706
Member, Pennsylvania Association of Notaries

Proposed Revegetation Treatment: Acres Disturbed 1± Prevegetation pH _____

Lime 3 Tons/acre or to correct to pH 6.5

Fertilizer type (10-20-20) or equivalent

Fertilizer amount 1/3 ton lbs/acre

Mulch 2 Tons/acre

Seed Mixtures

Temporary

Permanent

Seed Type	lbs/acre
Red Fescue	40
Aslike Clover	5
Annual Rye	15

Seed Type	lbs/acre
Red Fescue	15
Aslike Clover	5

Attach:
Maps(s) of road, location, pit and proposed area for land application (unless engineered plans including this info have been provided). If water from the pit will be land applied, provide water volume, include dimensions (L, W, D) of the pit, and dimensions (L, W), and area in acres, of the land application area.

Photocopied section of involved 7.5' topographic sheet.

Plan Approved by: _____

Comments: _____

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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

Topo Quad: Folsom 7.5'

Scale: 1" = 2000'

County: Doddridge

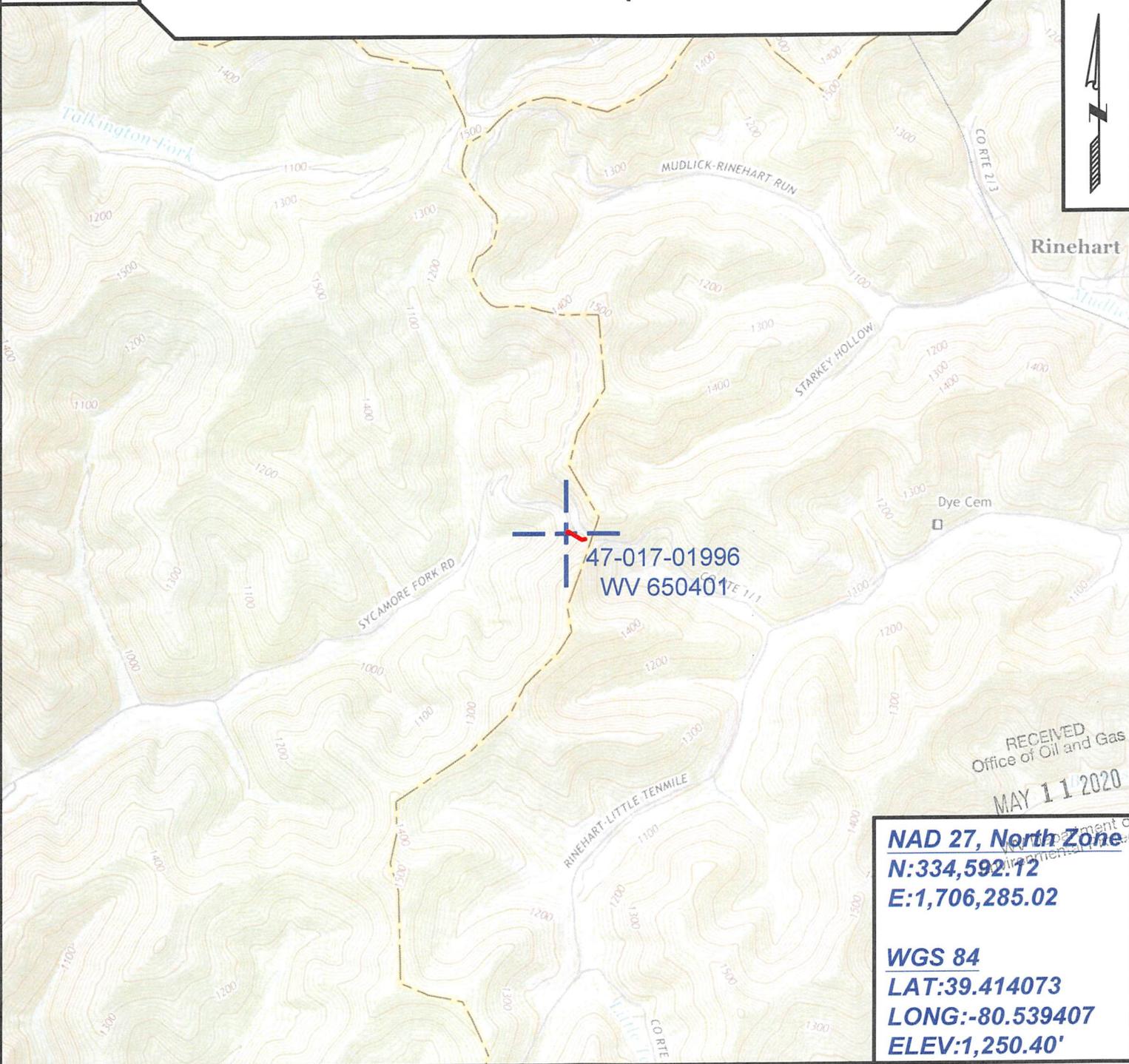
Date: February 10, 2020

District: McClellan

Project No: 67-30-00-08

47-017-01996 WV 650401 (A. J. Ashcraft #162)

Topo



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NAD 27, North Zone
N:334,592.12
E:1,706,285.02

WGS 84
LAT:39.414073
LONG:-80.539407
ELEV:1,250.40'



SURVEYING AND MAPPING SERVICES PERFORMED BY:
ALLEGHENY SURVEYS, INC.
 1-800-482-8606
 237 Birch River Road
 Birch River, WV 26610
 PH: (304) 649-8606
 FAX: (304) 649-8608

PREPARED FOR:
EQT Production Company
 400 Woodcliff Drive
 Canonsburg, PA 15317

