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west virginia department of environmental protection

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

Austin Caperton, Cabinet Secretary  
[www.dep.wv.gov](http://www.dep.wv.gov)

Wednesday, May 13, 2020  
WELL WORK PLUGGING PERMIT  
Vertical Plugging

EQT PRODUCTION COMPANY  
625 LIBERTY AVE., SUITE 1700

PITTSBURGH, PA 15222

Re: Permit approval for 1-213  
47-103-00798-00-00

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: 1-213  
Farm Name: KILCOYNE, S. J.  
U.S. WELL NUMBER: 47-103-00798-00-00  
Vertical Plugging  
Date Issued: 5/12/2020

Promoting a healthy environment.

I

47-103-00798P

# 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

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

WW-4B  
Rev. 2/01

- 1) Date January 23, 2020
- 2) Operator's  
Well No. 650516 M Barr #213
- 3) API Well No. 47-103-00798 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 872 Watershed North Fork of Fishing Creek  
District Grant County Wetzel Quadrangle Big Run
  
- 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 9) Plugging Contractor  
Name Derek Haught Name HydroCarbon Well Service  
Address PO Box 85 Address PO Box 995  
Smithville, WV 26178 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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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  Date 2-3-20

## PLUGGING PROGNOSIS

650516

M. Barr #213

API# 47-103-0798DD

District, Grant

Wetzel Co., WV

BY: R Green

DATE: 4/6/15

**CURRENT STATUS:**

10" @ 519'

8 1/4" @ 600'

7" @ 1858'

2 3/8" tbg @ 2715', set on 2" x 5 3/16" packer @ 2685'

T. D. -2762

PBTD @ 2720' in 1984

Fresh Water, none reported

Oil Shows, none reported

Gas shows @ 2685' (Bayard Sand)

Coal @ 600'-608'

Stimulation: None reported

Elevation @ 870'

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1. Notify inspector, Derek Haught, cell# 304-206-7613, 24 hrs. prior to commencing operations.
2. We will try to plug well in place without a rig on the hole and tubing will be left in the well and cemented with solid cement to surface perforating 2" tubing up the hole. ★
3. TIH wireline, perforate 2" tbg @ 2680'.
4. Establish circulation, pump C1A cement plug from 2680' to 2280'. (gas show, packer)
5. Check TD inside tbg, if @ 2280', proceed to next step.
6. TIH wireline perforate 2" tbg, @ 2275'.
7. Establish circulation, pump C1A cement plug from 2275' to 1800'. (6 5/8" casing seat).
8. Check TD inside tbg, if @ 1800', proceed to next step.
9. TIH wireline to 1795' perforate 2" tbg & 6 5/8" csg. (2 holes).
10. Establish circulation, pump C1A cement plug from 1795' to 950'
11. Check TD inside tbg, if @ 950', proceed to next step
12. TIH wireline to 945' perforate 2" tbg & 6 5/8" casing. (2 holes).
13. Establish circulation, pump C1A cement plug, 945' to 500', (elevation, coal, 8 1/4" casing seat, 10" casing seat).
14. Check TD inside tbg if @ 500', proceed to next step.
15. TIH wireline to 495', perforate 2" tbg, 6 5/8" csg, 8 1/4" csg, 10" casing.
16. Establish circulation, pump C1A cement plug 495' to surface.
17. Erect monument with API#.
18. Reclaim location, road to WV-DEO specifications.

DAH  
2-3-20

★ SEE ADDENDUM ATTACHED



\* Addendum

4/29/20

Mr. Jeff McLaughlin,

Re: S.J.Kilcoyne #1-213 well (Barr 213) Addendum

API # 47-103-00798

Per our conversations about the above referenced well, this well is situated in the yard area of an Equitrans compressor station.

Due to the proximity of the facilities surrounding the well, i.e., pipe lines, valve settings, tanks etc. there is not enough space to get a rig and support equipment onsite to perform our normal plugging process for a well.

Therefore, we ask that the DEP, allow us to "plug in place" the well with the procedure outlined in the plugging permit application that we have submitted.

The intent is to perforate all tubing's, casings in the well with deep penetrator ball type shots and completely fill the well bore with Type 1 (Class A) cement.

This process will be done in a step by step manner by setting a 600' plug, give curing time, tag plug and set additional 600' plugs immediately on top of previous plug(s) to surface.

Please feel free to get in touch with me if you have any questions, comments, or concerns.

Thanks

Rick Green

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APR 29 2020

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RECORDED

MR-35

DEPARTMENT OF ENERGY  
MAY 9 1986

State of West Virginia  
DEPARTMENT OF ENERGY  
Oil and Gas Division

Date May 2, 1986  
Operator's  
Well No. 213 (Lease 6740)  
Farm M. Barr  
API No. 47 - 103 - 0798-DD

WELL OPERATOR'S REPORT  
OF  
DRILLING, FRACTURING AND/OR STIMULATING, OR PHYSICAL CHANGE

WELL TYPE: Oil / Gas X / Liquid Injection / Waste Disposal /  
(If "Gas," Production / Underground Storage / Deep / Shallow X /)

LOCATION: Elevation: 870' Watershed North Fork of Fishing Creek  
District: Grant County Wetzel Quadrangle Big Run

COMPANY Carnegie Natural Gas Company  
ADDRESS 800 Regis Ave., Pgh., PA 15236  
DESIGNATED AGENT J. C. Stephenson  
ADDRESS Box 387, Mannington, WV 26582  
SURFACE OWNER William Kilcoyne  
ADDRESS Rt. 1, Smithfield, WV 26437  
MINERAL RIGHTS OWNER Hope Natural Gas Co.  
ADDRESS 445 W. Main St., Clarksburg, WV  
OIL AND GAS INSPECTOR FOR THIS WORK Robert Lowther  
ADDRESS Middlebourne, WV  
PERMIT ISSUED August 31, 1984  
Clean Out  
DRILLING COMMENCED September 18, 1984  
Clean Out  
DRILLING COMPLETED July 29, 1985

Casing Tubing	Used in Drilling	Left in Well	Cement fill up Cu. ft.
Size 20-16 Cond.			
<del>XX-10"</del>	519'	519'	
9 5/8			
8 5/8 1/4	600'	600'	
7	1858'	1858'	
5 1/2			
4 1/2			
3			
2		2715'	
Liners used			

IF APPLICABLE, PLUGGING OF DRY HOLE ON CONTINUOUS PROGRESSION FROM DRILLING OR REWORKING. VERBAL PERMISSION OBTAINED ON

GEOLOGICAL/TARGET FORMATION Bayard Depth 3200 feet  
Depth of completed well 2720 feet Rotary / Cable Tools X  
Water strata depth: Fresh feet; Salt - feet  
Coal seam depths: 600' - 608' Is coal being mined in the area? No

OPEN FLOW DATA  
Producing formation Gantz Pay zone depth Below 2685 feet  
Gas: Initial open flow - Mcf/d Oil: Initial open flow - Bbl/d  
Final open flow 15 Mcf/d Final open flow - Bbl/d  
Time of open flow between initial and final tests - hours  
Static rock pressure 170 psig (surface measurement) after 65 hours shut in  
(If applicable due to multiple completion--)  
Second producing formation - Pay zone depth - feet  
Gas: Initial open flow - Mcf/d Oil: Initial open flow - Bbl/d  
Final open flow - Mcf/d Oil: Final open flow - Bbl/d  
Time of open flow between initial and final tests - hours  
Static rock pressure - psig (surface measurement) after - hours shut in

(Continue on reverse side)

WET 0798-DD

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**DETAILS OF PERFORATED INTERVALS, FRACTURING OR STIMULATING, PHYSICAL CHANGE, ETC.**

The well was drilled in 1908 to a total depth of 2762' and tubed with 2762' of 3". The clean out was commenced on 9-18-84. 2720' of 3" tubing was cut and pulled and the well was cleaned out to 2720'. Rishing operations were discontinued on 7-29-85. The well was logged and 2715' of 2" tubing was run on a 5" x 2" Hookwall packer.

**WELL LOG**

FORMATION	COLOR	HARD OR SOFT	TOP FEET	BOTTOM FEET	REMARKS Including indication of all fresh and salt water, coal, oil and gas
Sand & Shale			0'	1790	
Little Lime			1790	1804	
Pencil Cave			1804	1819	
Big Lime			1819	1879	
Big Injun			1879	2099	
Shale			2099	2218	
Weir			2218	2299	
Shale			2299	2422	
Berea			2422	2467	
Shale			2467	2548	
Gantz			2548	2599	
Shale			2599	2720	
Cleaned Out Total Depth				2720'	

(Attach separate sheets as necessary)

Carnegie Natural Gas Company

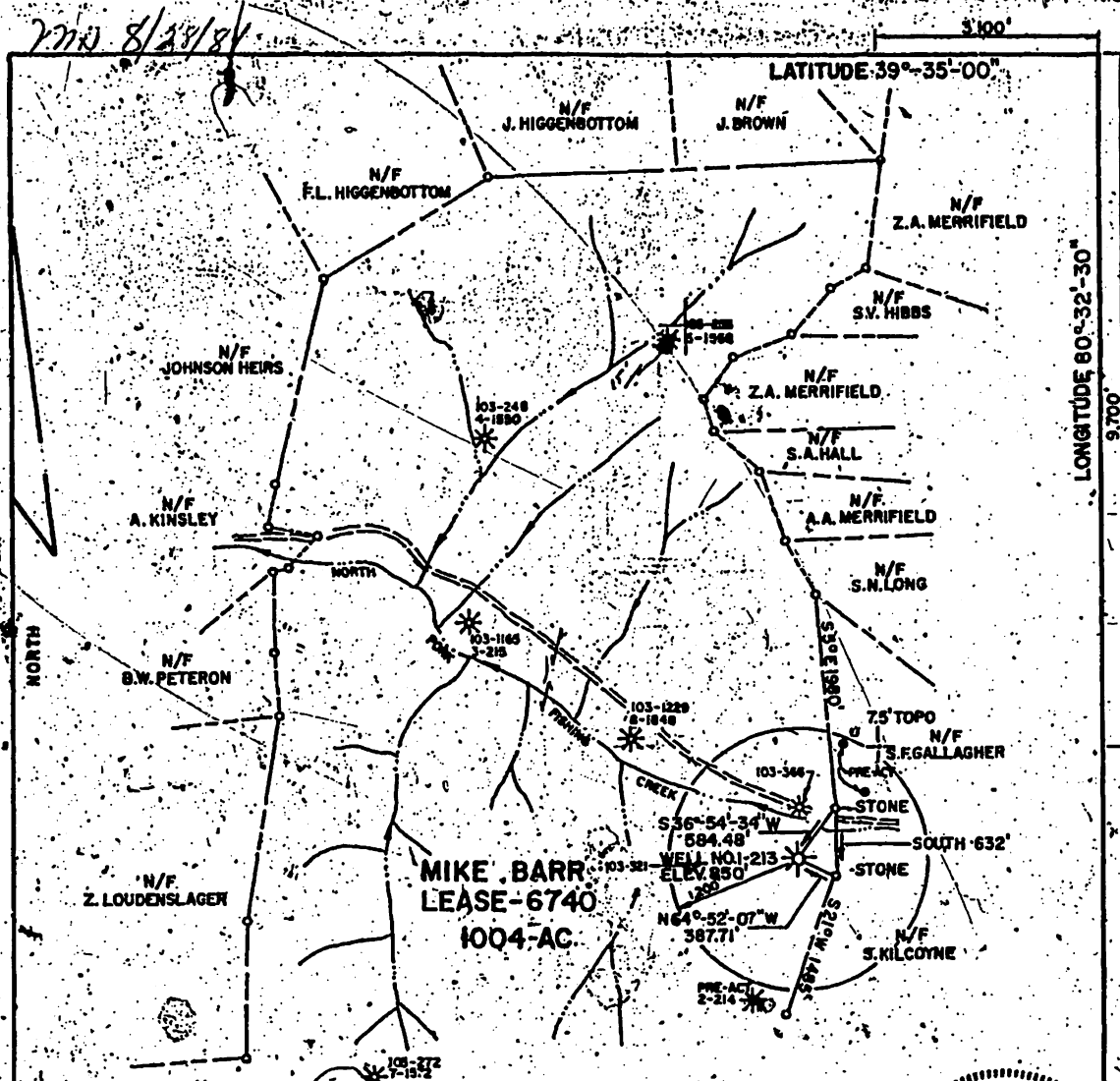
Well Operator

By: Kenneth H. Duway

Date: May 2, 1986

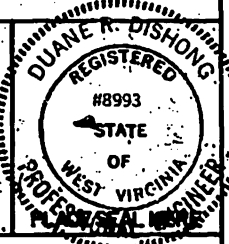
**Note:** Regulation 2.02(i) provides as follows:  
 "The term 'log' or 'well log' shall mean a systematic detailed geological record of all formations, including coal, encountered in the drilling of a well."

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FILE NO. \_\_\_\_\_  
 DRAWING NO. \_\_\_\_\_  
 SCALE: 1" = 1320'  
 MINIMUM DEGREE OF ACCURACY 1" IN 200'  
 PROVEN SOURCE OF ELEVATION S.M. AT NOBLEY  
 ELEV. = 885'

I THE UNDERSIGNED, HEREBY CERTIFY THAT THIS PLAT 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 DEPARTMENT OF MINES.  
 (SIGNED) Duane R. Dishong  
 R.P.C. 4993 L.L.S.



(+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS  
 FORM IV-6 (8-78)

DATE JUNE 25 19 84  
 OPERATOR'S WELL NO. 1-213  
 API WELL NO. 47-103-0798-DD  
 STATE WEST VIRGINIA COUNTY WETZEL PERMIT



STATE OF WEST VIRGINIA  
 DEPARTMENT OF MINES  
 OIL AND GAS DIVISION

WELL TYPE: OIL  GAS  LIQUID INJECTION  WASTE DISPOSAL   
 (IF "GAS") PRODUCTION  STORAGE  DEEP  SHALLOW   
 LOCATION: ELEVATION 850' WATER SHED NORTH FORK FISHING CREEK  
 DISTRICT GRANT COUNTY WETZEL  
 QUADRANGLE BIG RUN  
 SURFACE OWNER BERNICE KILCOYNE ACREAGE 1004  
 OIL & GAS ROYALTY OWNER HOPE NATURAL GAS CO. LEASE ACREAGE 1004  
 LEASE NO. 6740

PROPOSED WORK: DRILL  CONVERT  DRILL DEEPER  REDRILL  FRACTURE OR STIMULATE  PLUS OFF OLD FORMATION  PERFORATE NEW FORMATION  OTHER PHYSICAL CHANGE IN WELL (SPECIFY) \_\_\_\_\_

PLUG AND ABANDON  CLEAN OUT AND REPLUG   
 TARGET FORMATION BAYARD ESTIMATED DEPTH 3200  
 WELL OPERATOR CARNEGIE NATURAL GAS CO. DESIGNATED AGENT J.C. STEPHENSON, DIVISION SUPERINTENDENT  
 ADDRESS 800 REGIS AVE. ADDRESS PO BOX 387  
PITTSBURGH, PA. 15236 MANNINGTON, WV 26032

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Wet. 0798-DD



47-103-00798P

CARNEGIE NATURAL GAS COMPANY

Map Sheet No. 111-26 RECORD OF WELL Well No. 713  
 Drilled on Benjamin & Tress et al Mine Barren Farm of 1003 A  
Grant Township Netzel County W. Va. Lease No. 6740  
 Shipping Point \_\_\_\_\_ Foreman \_\_\_\_\_

Located \_\_\_\_\_ Commanded Drilling Sept. 21, 1908  
 Notified Gen'l Office \_\_\_\_\_ Notified Gen'l Office \_\_\_\_\_  
 Commenced \_\_\_\_\_ Completed Drilling 11-21-08  
 Completed \_\_\_\_\_ Notified Gen'l Office \_\_\_\_\_  
 Contractor \_\_\_\_\_ Contractor \_\_\_\_\_  
 Address \_\_\_\_\_ Address El. #75 864 S.L.

ROCK FORMATION	TOP	BOTTOM	REMARKS	3" tubing	PRESSURE AND VOLUME
Conductor					1/2 Minute
Waynesburg Coal				1 "	135
Mapleton Coal				2 "	210
Pittsburgh Coal	600	608		3 "	275
Little Dunkard				4 "	330
Big Dunkard				5 "	400
Gas Sand				10 "	485
1st Salt Sand				15 "	630
2nd Salt Sand				30 "	680
3rd Salt Sand				1 Hour	700
Maxton Sand				Rock	"
Little Lime				Size of Tubing	Inch
Panoli Cave				Casing	"
Big Lime				Vol by Water	"
Big Injun	1900	2125	Little Gas at 1925'	" " Mercury	"
Gantz Sand				" " Pressure	"
60 Foot Sand	2550		Shell and broken sand, no good	CONNECTED TO MAIN LINE	
30 Foot Sand				July 30, 1911	
Gordon Stray	2675		Both sands blended	Length of Line	Feet
Gordon Sand		2697	Stray very hard	Size of Line	Inch
4th Sand	2735		Good Sand	DISCONNECTED FROM LINE	
5th Sand	2757				
Bayard Sand					
Elizabeth				Notified Lessor	
Speechley				Abandoned	
Tions				Repacked	
Bradford				With	Feet Tubing

Total Depth 2762 Feet at \$ \_\_\_\_\_ per Foot \$ \_\_\_\_\_  
 Gas Furnished at \_\_\_\_\_ Cents per Foot

SIZE	CHARGED TO WELL		PUT IN WELL		PULLED		LEFT IN WELL		TRANSFERRED		LEFT AT WELL		PACKER
	Feet	In.	Feet	In.	Feet	In.	Feet	In.	Feet	In.	Feet	In.	
10"			519				519						WELL SHOT By _____ With _____ Qts. at _____ Feet
8"			1298				600						
6-5/8"			1858				1558						
3'			2762				2762						

Casing Cemented in Well \_\_\_\_\_ by \_\_\_\_\_ Company \_\_\_\_\_

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 U.S. Department of  
 Environmental Protection

WW-4A  
Revised 6-07

1) Date: January 23, 2020  
2) Operator's Well Number  
650516 M Barr #213

3) API Well No.: 47 - 103 - 00798

**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>See Attached</u>	Name _____
Address _____	Address _____
(b) Name _____	(b) Coal Owner(s) with Declaration
Address _____	Name <u>See Attached</u>
(c) Name _____	Address _____
Address _____	Name _____
6) Inspector <u>Derek Haught</u>	(c) Coal Lessee with Declaration
Address <u>PO Box 85</u>	Name _____
<u>Smithville, WV 26178</u>	Address _____
Telephone <u>304-206-7613</u>	_____

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**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.

COMMONWEALTH OF PENNSYLVANIA  
NOTARIAL SEAL  
Rebecca Shrum, Notary Public  
North Sewickley Twp., Beaver County  
My Commission Expires March 9, 2020  
MEMBER, PENNSYLVANIA ASSOCIATION OF NOTARIES

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

Subscribed and sworn before me this 23rd day of January 2020  
Rebecca Shrum Notary Public  
My Commission Expires March 9, 2020

**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](mailto:depprivacyoffier@wv.gov).

47-103-00798 P

47-103-00798

650516 M Barr #213

**Owner(s) (Surface and Access)**

Equitrans LP  
2200 Energy Drive  
Canonsburg, PA 15317

**Coal Owner(s)**

Murray Energy Corporation  
Attn: Alex O'Neill  
46226 National Rd  
St Clairsville, OH 43950

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WW-9  
(5/16)

API Number 47 - 103 - 00798  
Operator's Well No. 650516 M Barr #213

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) North Fork of Fishing Creek Quadrangle Big Run

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 Meadow Hill Landfill ; Northwestern Landfill ok WS 2/10/20)

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. \_\_\_\_\_

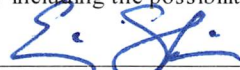
-If left in pit and plan to solidify what medium will be used? (cement, lime, sawdust) \_\_\_\_\_

-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.

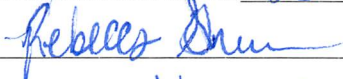
I certify under penalty of law that I have personally examined and am familiar with the information submitted on this application form and all attachments thereto and that, based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the information is 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 

Company Official (Typed Name) Erin Spine

Company Official Title Supervisor - Subsurface Permitting

Subscribed and sworn before me this 23rd day of January, 20 20



Notary Public

My commission expires March 9, 2020

COMMONWEALTH OF PENNSYLVANIA  
NOTARIAL SEAL  
Rebecca Shrum, Notary Public  
North Sewickley Twp., Beaver County  
My Commission Expires March 9, 2020  
MEMBER, PENNSYLVANIA ASSOCIATION OF NOTARIES

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Form WW-9

Operator's Well No. \_\_\_\_\_

Proposed Revegetation Treatment: Acres Disturbed 1± Prevegetation pH \_\_\_\_\_

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

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: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

Title: Oil + Gas Inspector Date: 2-3-20

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

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⊙ Denotes to install 15" minimum culvert    ⊗ Denotes a proposed stream crossing (if applies) \*see table for culvert detail\*

Unless otherwise noted, all roads shown hereon are existing and shall be maintained in accordance with WV D.E.P., Office of Oil and Gas Erosion and Sediment Control Field Manual as revised 5/12

Entrances upon county/state roads shall be maintained in accordance with WV D.O.T. regulations, however, separate permits may be required by the WV D.O.T.

Sediment basins (traps) and appropriate erosion control barriers are to be constructed at all culverts and cross-drains as required in the aforementioned Erosion and Sediment Control Field Manual. Where field conditions dictate, alternative erosion control measures shall be enacted as required.

Earthwork contractors are responsible for notification to the operator and inspector prior to any deviation from this plan.

Temporary seed and mulch all slopes after construction of location.

Cut and stack all marketable timber.

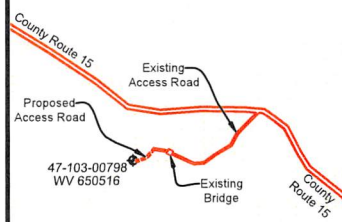
Stacked brush may be used for sediment control.

Applications for separate Public Land Corporation Permits on the access roads stream crossings have been prepared ( if applies ).

Additional culverts and/or other drainage structures and sediment control devices may be required by the WVDEP Oil & Gas Inspector.

Operator is responsible for the coordination with contractor and Allegheny Surveys regarding any changes or additions the state may require.

**Existing Well # WV 650516**  
Loc. Detail 47-103-00798



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DRAWING IS NOT TO SCALE

SECTION OF THE Vadis 7.5' USGS QUADRANGLE		Proposed Disturbance Area	
Projected culvert inventory. (for bid purposes only)		Well Site Location	
15" minimum diameter culverts	0 Culverts	Proposed Access Road	
18" minimum diameter culverts	0 Culverts	Approximate Total Disturbance	

- PROPERTY BOUNDARY
- ROAD
- DITCH
- SILT FENCE
- EXISTING WELL LOCATION
- BROAD BASED DIP
- EXISTING GATE
- EXISTING CULVERT
- PROPOSED CULVERT
- CROSS DRAIN
- PIT-CUT WALLS
- PIT-COMPACTED WALLS
- AREA OF LAND APPLICATION OF PIT WASTE

DRAWN BY: Tim Rutledge    DATE: December 18, 2019    FILE NO.: 40-34-00-09    DRAWING FILE NO.: 40-09 WV 650516 Rec Plan



SURVEYING AND MAPPING SERVICES PERFORMED BY:  
**ALLEGHENY SURVEYS, INC.**  
1-800-482-8606  
Birch River Office    237 Birch River Road  
Phone: (304) 649-8606    Birch River, WV 26610  
Fax: (304) 649-8608    www.alleghenysurveys.com



WW-7  
8-30-06



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

API: 47-103-00798 WELL NO.: WV 650516 (M. Barr #213)

FARM NAME: M. Barr

RESPONSIBLE PARTY NAME: EQT Production Company

COUNTY: Wetzel DISTRICT: Grant

QUADRANGLE: Big Run 7.5'

SURFACE OWNER: Equitrans LP

ROYALTY OWNER: Alliance Petroleum Corp.

UTM GPS NORTHING: 4378629

UTM GPS EASTING: 538455 GPS ELEVATION: 266 m (872 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:

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 \_\_\_\_\_ : 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

PS #2180  
Title

1/21/2020  
Date

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Environmental Protection