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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

Jim Justice , Governor  
Austin Caperton , Cabinet Secretary  
www.dep.wv.gov

Monday, February 13, 2017  
WELL WORK PERMIT  
Vertical / Plugging

EQT PRODUCTION COMPANY (A)  
120 PROFESSIONAL PLACE  
BUILDING II  
BRIDGEPORT, WV 26330

Re: Permit approval for WV607905 (GROSE 7905)  
47-097-00161-00-00

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: WV607905 (GROSE 7905)  
Farm Name: IRELAND, GEORGE T. & R. REESE ET AL  
U.S. WELL NUMBER: 47-097-00161-00-00  
Vertical / Plugging  
Date Issued: 2/13/2017

Promoting a healthy environment.

02/17/2017

## 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.
4. This well is under a consent order and must be plugged under the terms of that agreement.

9700161A

Form WW-4 (B)  
Permit Copy  
(Rev 2/01)

Date: January 3, 2017  
Operator's Well \_\_\_\_\_  
Well No. 607905 (Grose #7905)  
API Well No.: 47 097 - 00161

CK 22164  
100<sup>00</sup>

STATE OF WEST VIRGINIA  
DIVISION 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) Elevation: 1401 ft. Watershed: Bridge Run  
Location: Buckhannon County: Upshur Quadrangle: Berlin 7.5'  
District: \_\_\_\_\_

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

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

8) Oil & Gas Bryan Harris  
Name: P. O. Box 157  
Address: Volga, WV 26238

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.**

OFFICE USE ONLY

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

Work order approved by inspector Bryan Harris Date 1-18-17

9700161P

# PLUGGING PROGNOSIS -

## Grose 7905

API # 47-097-00161  
Weston District, Upshur Co., WV  
Berlin Quad

Prepared by: **Dan Doebereiner Updated by Craig Duckworth**  
7/23/2007 1/3/17

### Current Status:

Elevation 1503'  
13" @ 16'  
10" @ 305'  
8 1/4" @ 1068'  
6 5/8" @ 2650'  
3" @ 2778' Perfed @ 2719'  
TD @ 2778'  
BHP 6 5/8" x 3" @ 2715'

**1<sup>st</sup> Salt Sand @ 1134'-1220'**  
**FW @ 47', 117'**  
**SW - None Reported**  
**Gas Shows @ 5<sup>th</sup> Sand (2669' - 2760')**  
**Maxton Sand @ 1742'**  
**Completion: @ 5<sup>th</sup> Sand perfed @ 2719'**

**Oil Show - None Reported**  
**Coal Shows @ 201' - 204', 625' - 628'**

- 1.) Notify State Inspector **Bryan Harris 304-553-6087** 48 hrs. prior to commencing operations.
- 2.) Attempt to pull 2778' of 3" tubing w/ packer set @ 2715' and check condition. If tubing and packer will not pull, TIH w/ wireline and shoot off 3" packer @ 2715'. TOOH w/ tubing and check conditions.
- 3.) <sup>Spot Gel</sup> TIH w/ tubing to 2715'; Set 146' C1A Cement Plug @ 2715' to 2569' (5<sup>th</sup> Sand Completion and Gas Shows, BHP @ 2715', 6 5/8' Csg. Pt.).
- 4.) TOOH w/ tubing, Free Point 6 5/8" casing. Cut 6 5/8" @ freepoint, TOOH w/ 6 5/8" casing.
- 5.) Set a 100' C1A Cement Plug 50' In/Out of cut. Perf all SW, FW, Coal, and Gas Shows below 6 5/8" cut. Do not omit any plugs.
- 6.) TOOH w/ tubing; Gel Hole @ 2569' to 1742'.
- 7.) Set 100' C1A Cement Plug @ 1742' to 1642' (Maxton Sand @ 1742').
- 8.) Gel Hole @ 1642' to 1134'.
- 9.) Set 116' C1A Cement Plug @ 1134' to 1018' (8 1/4" Csg. Pt., 1<sup>st</sup> Salt Sand)
- 10.) TOOH w/ tubing, Free Point 8 1/4" casing. Cut 8 1/4" @ freepoint, TOOH w/ 8 1/4" casing.
- 11.) Set a 100' C1A Cement Plug 50' In/Out of cut. Perf all SW, FW, Coal, and Gas Shows below 8 1/4" cut. Do not omit any plugs.
- 12.) Gel Hole @ 1018' to 813'.
- 13.) Set 184' C1A Cement Plug @ 813' - 579' (Fresh Water @ 763', Coal Show @ 629')
- 14.) Gel Hole @ 579' to 355'.
- 15.) TOOH w/ tubing, Free Point 10" casing. Cut 10" @ free point, TOOH w/ 10" casing.
- 16.) Set a 100' C1A Cement Plug 50' In/Out of cut. Perf all SW, FW, Coal, and Gas Shows below 10" cut. Do not omit any plugs.

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- 17.) Set 355' C1A Cement Plug @ 355' to Surface (13" Csg. Pt., 10" Csg Pt., Fresh Water @ 42' and 117', Coal Show @ 204').
- 18.) Do not omit any C1A cement plugs shown and use 6% Gel between all Cement plugs.
- 19.) Make sure 6% gel plugs are filled up to the next cement plug, in casing or open hole.
- 20.) Top off w/ cement as needed
- 21.) Set Monument & Reclaim location to WV Division of Gas & Oil Specs.

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**Environmental Protection**  
02/17/2017

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*Winton S.E.*

STATE OF WEST VIRGINIA  
DEPARTMENT OF MINES  
OIL AND GAS DIVISION

WELL RECORD

Permit No. UPS-161

Oil or Gas Well GAS for (specify)

Company Pittsburgh & West Va Gas Company.  
 Address Clarksburg, West Va.,  
 Farm G. W. Gross Acres. 79  
 Location (waters) Weston S/E. 4-3  
 Well No. 7905 Elev. 1505.9' VA  
 District Buckhannon County Upshur  
 The surface of tract is owned in fee by C. C. Gross et al.  
R.F.D.#1 Address Buckhannon, W. Va.  
 Mineral rights are owned by C. C. Gross et al.  
R.F.D.#1 Address Buckhannon, W. Va.  
 Drilling commenced December 9, 1942  
 Drilling completed February 18, 1943  
 Date Shot From To  
 With  
 Open Flow 100/10ths Water in 1-1/2" Inch  
/10ths Merc. in Inch  
 Volume 207,000 Cu. Ft.  
 Rock Pressure 1215 lbs 18 hrs.  
 Oil 625 bbls, 1st 24 hrs.  
 Fresh water feet feet  
 Salt water feet feet

Casing and Tubing	Used in Drilling	Left in Well	Packers
16			Kind of Packe
18			Anchor
10	305'	305'	Size of <u>6-5/8" X 3/4"</u>
8 3/4	1068'	1068'	Depth set <u>2735'</u>
6 3/4	2650'	2650'	
5 3/8			Perf. top <u>2719'</u>
3	2778'	2778'	Perf. bottom <u>2763'</u>
2			Perf. top
			Perf. bottom

CASING CEMENTED \_\_\_\_\_ SIZE \_\_\_\_\_ No. Ft. \_\_\_\_\_ Date \_\_\_\_\_  
 COAL WAS ENCOUNTERED AT 201 FEET 36 INCHES  
625 FEET 36 INCHES FEET INCHES  
 FEET INCHES FEET INCHES

Formation	Color	Hard or Soft	Top	Bottom	Oil, Gas or Water	Depth Found	Remarks
Clay	Red	Open	n 0	12			
Red Rock	"	Soft	12	35			
Lime	"	Close	35	50	Water	47'	2 Bailer
Red Rock	"	Soft	50	72			
Lime	Gray	Hard	72	82			
Red Rock	Red	Soft	82	86			
Lime	White	Hard	86	102			
Slate	"	Soft	102	115			
Lime	Gray	Close	115	130	Water	117'	6 Bailer
Sand	White	Open	130	145			
Slate	"	Soft	145	175			
Lime	Gray	Close	175	201			
Coal	Black	Soft	201	204			
Lime	White	Hard	204	222			
Slate	"	Soft	222	230			
Sand	"	Hard	230	287			
Slate&Shells	"	Soft&Hard	287	309			
Lime	"	Hard	309	344			
Red Rock	Red	Soft	344	540			
Lime	White	Hard	540	585			
Red Rock	Red	Soft	585	625			
Coal	Black	"	625	629			
Slate-Shells	White	Soft-Hard	629	779			
Sand	"	Hard	779	794			
Slate-Shells	Black	Hard-Soft	794	840			
Lime	White	Close	840	935			
Little Dunkard	Gray	Hard	935	959			
Slate	White	Soft	959	972			
Big Dunkard	"	Hard	972	1026			
Slate	"	Soft	1026	1045			
Lime	"	Open	1045	1073			
Slate	Black	Soft	1073	1092			
Lime	White	Hard	1092	1113			
Slate-Shells	Dark	Soft-Hard	1113	1134			
Gas Sand	"	Hard	1134	1220			
Slate-Shells	Black	Hard-Soft	1220	1257			
Salt Sand	White	Hard	1257	1601			
Slate-Shells	Red	Hard-Soft	1601	1742			
Maxed Sand	White	Hard	1742	1770			
Slate-Shells	Red	Hard-Soft	1770	1875			
Little Lime	Dark	Close	1875	1894			
Slate-Shells	White	Soft-Hard	1894	1940			
Big Lime	"	Hard	1940	2017			

MAR 1943  
 1943 MAR 1943  
*[Signature]*

02/17/2017

11 P5-1161

9700161P

Formation	Color	Hard or Soft	Top	Bottom	Oil, Gas or Water	Depth Found	Remarks
Big Injum	Dark	Hard	2017	2174			
Slate-Shells	"	Soft	2174	2200			
Sand	"	Hard	2200	2311			
Slate	White	Soft	2311	2318			
Sands & 50 Ft. Sd.	White	Hard	2318	2422			
Slate	White	Soft	2422	2435			
Lime	Grey	Hard	2435	2455			
Slate	"	Soft	2455	2460			
Red Rock Shells	Red	Soft-Hard	2460	2645			
4th Sand	White	Hard	2645	2656			
Slate	"	Hard	2656	2669			
5th Sand	"	"	2669	2788	Gas	2730-33'	100/10 Water
Lime	Dark	Close	2788	2778	Gas	2752-57'	1-1/2" Spng.
Total Depth				2778			

March 4th, 1943.

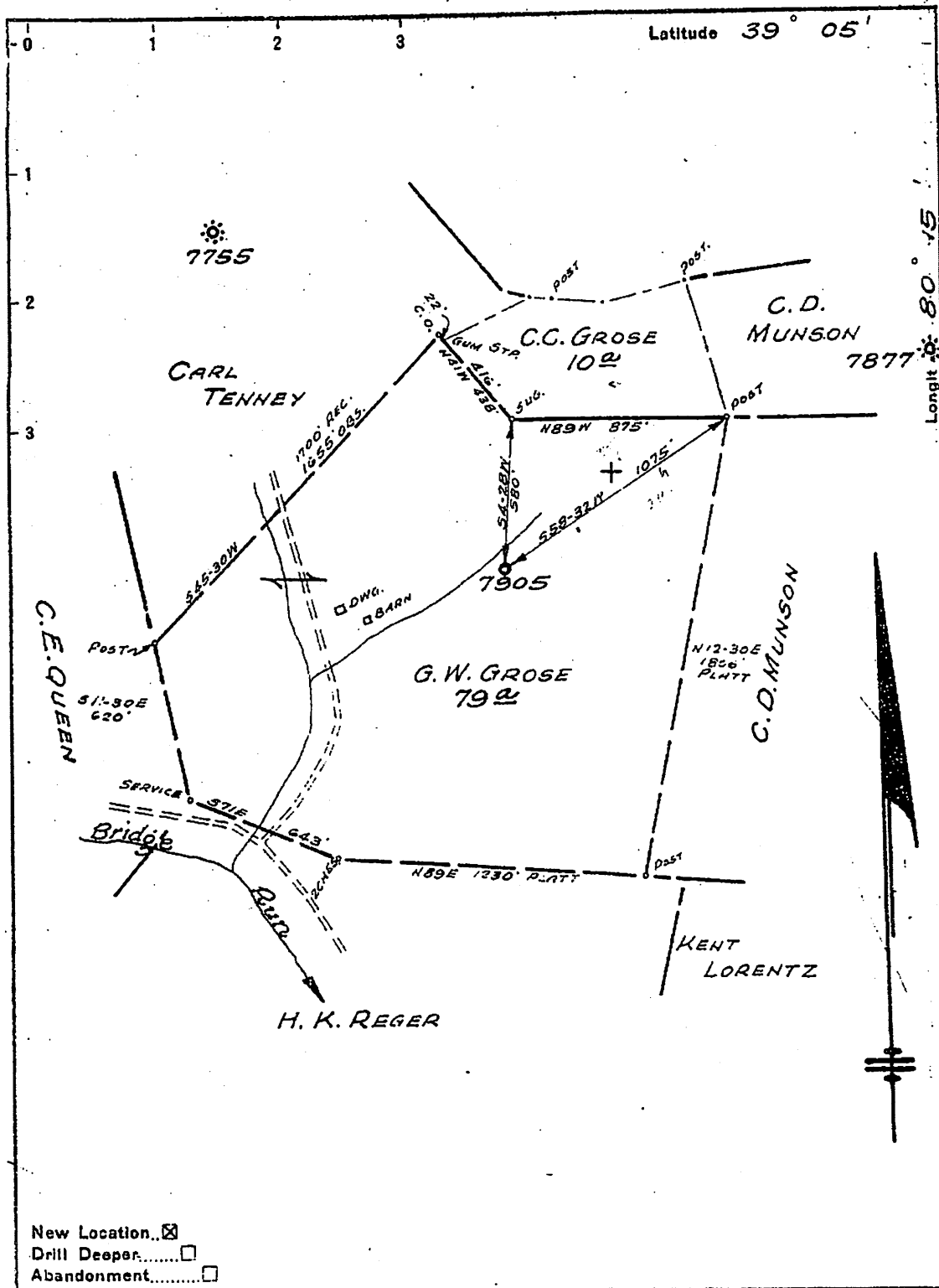
Date \_\_\_\_\_ 194\_\_

APPROVED \_\_\_\_\_ PITTSBURGH & WEST VA GAS COMPANY. Owner

By *J. H. [Signature]*

02/17/2017

9700161P



New Location   
 Drill Deeper   
 Abandonment

Company PITTSBURGH & W.V.A. GAS CO.  
 Address CLARKSBURG, W.V.A.  
 Farm G. W. GROSE  
 Tract \_\_\_\_\_ Acres 79 Lease No. 21572-1  
 Well (Farm) No. ONE Serial No. 7905  
 Elevation (Spirit Level) 1505.9' V.A.  
 Quadrangle WESTON S. E. 43  
 County UPSHUR District BUCKHANNON  
 Engineer James D. Pafford  
 Engineer's Registration No. 1084  
 File No. V-118-P-31 Drawing No. \_\_\_\_\_  
 Date Oct. 7, 1942 Scale 1" = 500'

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

**RECEIVED**  
 Office of Oil and Gas

**WELL LOCATION MAP**  
 FILE NO. Ups. 161 JAN 11 2017

+ Denotes location of well on United States Topographic Maps, scale 1 to 62,500, latitude and longitude lines being indicated by border lines as shown.

- Denotes one inch spaces on border line of original tracing.

02/17/2017

"SPECIALTY" TRACING CLOTH  
 K & E CO., N. Y.



1) Date: January 3, 2017  
2) Operator's Well Number  
607905 (Grose #7905)  
3) API Well No.: 47 097 - 00161  
State County Permit

97 00161A

**STATE OF WEST VIRGINIA - BUREAU OF ENVIRONMENT**  
**DEPARTMENT OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL & GAS**  
**NOTICE AND APPLICATION FOR A WELL WORK PERMIT**

4) **Surface Owner(s) to be served:**

(a) Name George Ireland  
Address 1806 Orchard Road  
Fairmont, WV 26554

(b) Name \_\_\_\_\_  
Address \_\_\_\_\_

(c) Name \_\_\_\_\_  
Address \_\_\_\_\_

(d) Name \_\_\_\_\_  
Address \_\_\_\_\_

5) (a) **Coal Operator:**  
Name None found  
Address \_\_\_\_\_

(b) **Coal Owner(s) with Declaration:**  
Name MLOM, LLC  
Address 415 Heliport Rd.  
P.O. Box 470  
Bridgeport, WV 26330

Name \_\_\_\_\_  
Address \_\_\_\_\_

(c) **Coal Lessee(s) with Declaration:**  
Name \_\_\_\_\_  
Address \_\_\_\_\_

6) **Inspector:**  
Name Bryan Harris  
Address P. O. Box 157  
Volga, WV 26238  
Telephone (304) 553-6087

**TO THE PERSONS NAMED ABOVE TAKE NOTE THAT:**

         Included is the lease or leases or other continuing contract or contracts by which I hold the right to extract oil and gas

X **OR** Included is the information required by Chapter 22, Article 6, Section 8(d) of the Code of West Virginia (see page 2)

I certify that as required under Chapter 22-6 of the West Virginia Code I have served copies of this notice and application, a location plat, and accompanying documents pages 1 through \_\_\_\_\_ on the above named parties by:

- Personal Service (Affidavit Attached)
- X   Certified Mail (Postmarked Postal Receipt Attached)
- Publication (Notice of Publication Attached)

I have read and understand Chapter 22-6 and 35 CSR 4, and I agree to the terms and conditions of any permit issued under this application.

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, 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.

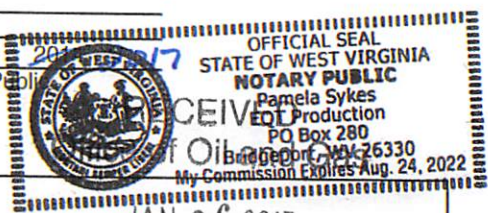
I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.

Well Operator: EQT Production Company  
By: [Signature]  
Its: Permitting Supervisor  
Address: P.O. Box 280  
Bridgeport, WV 26330  
Telephone: (304) 848-0076

Subscribed and sworn before me this 23 day of Jan

Notary Public

My Commission Expires: 8-24-22



**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 regular duties. Your personal information may be disclosed to other State agencies or third parties in the normal course of business or as needed to comply with statutory or regulatory requirements, including Freedom of Information Act requests. Our office will appropriately secure your personal information. If you have any questions about our use of your personal information, please contact DEP's Chief Privacy Officer at [depprivacyofficer@wv.gov](mailto:depprivacyofficer@wv.gov)

JAN 26 2017  
WV Department of Environmental Protection  
9217/2017

Shipping Department  
0  
WV 26330

- Print your name and address on the reverse so that we can return the card to you.
- Attach this card to the back of the mailpiece, or on the front if space permits.

1. Article Addressed to:

George Ireland  
1806 Orchard Road  
Fairmont, WV 26554

Plugging Permit #607905



9590 9402 2404 6249 6675 96

2. Article Number (Transfer from service label)

7016 2070 0001 0947 7591

PS Form 3811, July 2015 PSN 7530-02-000-9053

B. Received by (Printed Name) C. Date of Delivery

D. Is delivery address different from item 1?  Yes  
If YES, enter delivery address below:  No

3. Service Type

- Adult Signature
- Adult Signature Restricted Delivery
- Certified Mail®
- Certified Mail Restricted Delivery
- Collect on Delivery
- Collect on Delivery Restricted Delivery
- Priority Mail Express®
- Registered Mail™
- Registered Mail Restricted Delivery
- Return Receipt for Merchandise
- Signature Confirmation™
- Signature Confirmation Restricted Delivery

all Restricted Delivery

Domestic Return Receipt

U.S. Postal Service  
CERTIFIED MAIL® RECEIPT  
Domestic Mail Only

For delivery information, visit our website at [www.usps.com](http://www.usps.com)

OFFICIAL USE

Certified Mail Fee \$  
Extra Services & Fees (check box, add fee as appropriate)  
 Return Receipt (hardcopy) \$  
 Return Receipt (electronic) \$  
 Certified Mail Restricted Delivery \$  
 Adult Signature Requested \$  
 Adult Signature Restricted Delivery \$

Postage \$  
Total Postage \$

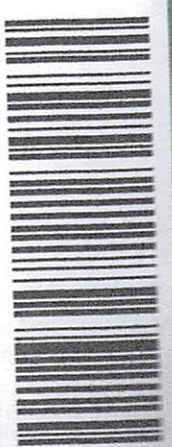
Sent To  
George Ireland  
1806 Orchard Road  
Fairmont, WV 26554

City, State, Zip, and Plugging Permit #607905

PS Form 3800, April 2015 PSN 7530-02-000-9047 See Reverse for Instructions

Plugging Permit #607905

Postmark  
Here  
MC



7016 2070 0001 0947 7591  
7016 2070 0001 0947 7591

CERTIFIED MAIL

neopost  
01/10/2017  
US POSTAGE

ZIP 26330  
0411102288X  
\$0.57  
02/17/2017

97 00161P

neopost<sup>SM</sup>

01/24/2017

US POSTAGE



\$07.71

ZIP 26330

041L10228

097-00161P



7016 2070 0001 0947 8437  
7016 2070 0001 0947 8437

**U.S. Postal Service™**  
**CERTIFIED MAIL® RECEIPT**  
 Domestic Mail Only

For delivery information, visit our website at [www.usps.com](http://www.usps.com)™

**OFFICIAL USE**

Certified Mail Fee \$ \_\_\_\_\_

Extra Services & Fees (check box, add fee as appropriate)

Return Receipt (hardcopy) \$ \_\_\_\_\_

Return Receipt (electronic) \$ \_\_\_\_\_

Certified Mail Restricted Delivery \$ \_\_\_\_\_

Adult Signature Required \$ \_\_\_\_\_

Adult Signature Restricted Delivery \$ \_\_\_\_\_

Postage \$ \_\_\_\_\_

Total Postage \$ \_\_\_\_\_

Sent To **MLOM, LLC**  
 415 Heliport Road  
 P. O. Box 470  
 Street and Apt. **Bridgeport, WV 26330**  
 City, State, Zip **Plugging Permit #607905**

PS Form 3800, April 2013 PSN 7530-02-000-9053 See Reverse for Instructions

VR  
Postmark Here

PS Form 3811, July 2015 PSN 7530-02-000-9053

Article Number (Transfer from service label) 7016 2070 0001 0947 8437

69590 9402 2290 6225 2888 68

**Official and Gas**

Plugging Permit #607905  
 JAN 26 2017  
 Bridgeport, WV 26330  
 P. O. Box 470  
 415 Heliport Road  
**WV Department of Environmental Protection**

1. Article Addressed to:  
 Attach this card to the back of the mailpiece, or on the front if space permits.  
 Complete items 1, 2, and 3.  
 so that we can return the card to you.  
 your name and address on the reverse

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:

3. Service Type  Certified Mail®  
 Certified Mail Restricted Delivery  
 Adult Signature  
 Adult Signature Restricted Delivery  
 Registered Mail™  
 Registered Mail Restricted Delivery  
 Priority Mail Express®  
 Return Receipt for Merchandise  
 Return Receipt for Delivery  
 Signature Confirmation™  
 Signature Restricted Delivery  
 Restricted Delivery  
 Insured Mail  
 Collect on Delivery  
 Collect on Delivery Restricted Delivery

Domestic Return Receipt

02/17/2017

Shipping Department  
 Action  
 80  
 , WV 26330

**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): Bridge Run Quadrangle: Berlin 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

- 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 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 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.

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

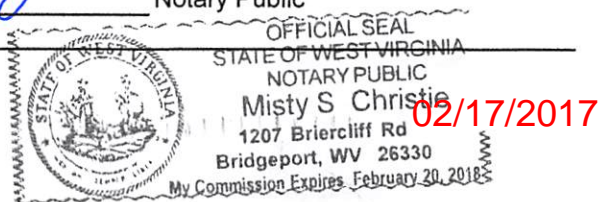
Company Official Signature *Victoria J. Roark*

Company Official (Typed Name) Victoria J. Roark

Company Official Title Permitting Supervisor - WV

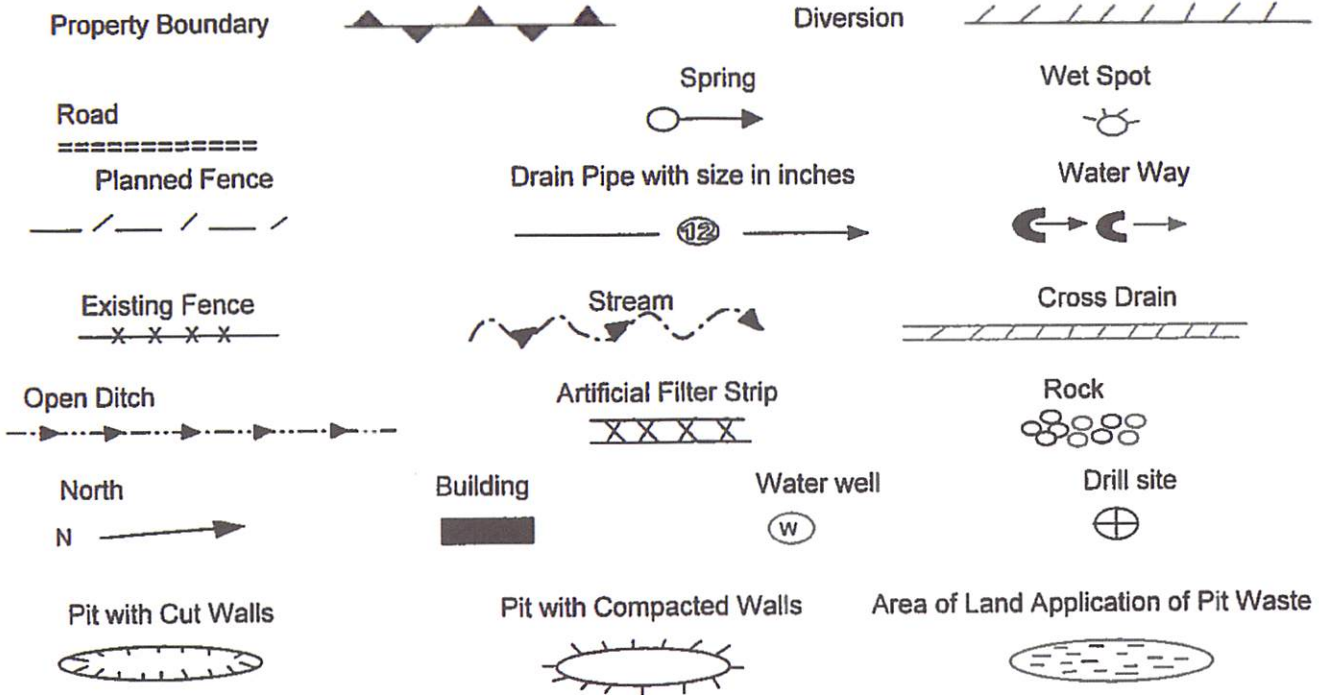
Subscribed and sworn before me this 4th day of January, 2017

My Commission Expires 2/20/18  
Notary Public *Misty S. Christie*



**OPERATOR'S WELL NO.:**  
607905 (Grose #7905)

**LEGEND**



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 hydroseed.

**SEED MIXTURES**

Area I		Area II	
Seed Type	lbs/acre	Seed Type	lbs/acre
Red Fescue	40	Red Fescue	15
Alsike Clover	5	Alsike Clover	5
Annual Rye	15		

**ATTACH:**

Drawing(s) of road, location, pit and proposed area for land application.  
 Photocopies section of involved 7.5' topographic sheet.

Plan approved by: *Boyer Harris*

Comments: \_\_\_\_\_

Title: *Pls Inspect* Date: *1-18-17*

Field Reviewed? *X* Yes          No

9700161P

**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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**JAN 11 2017**

**WV Department of**  
**Environmental Protection**

**02/17/2017**

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Topo Quad: Berlin 7.5'

Scale: 1" = 500'

County: Upshur

Date: December 19, 2016

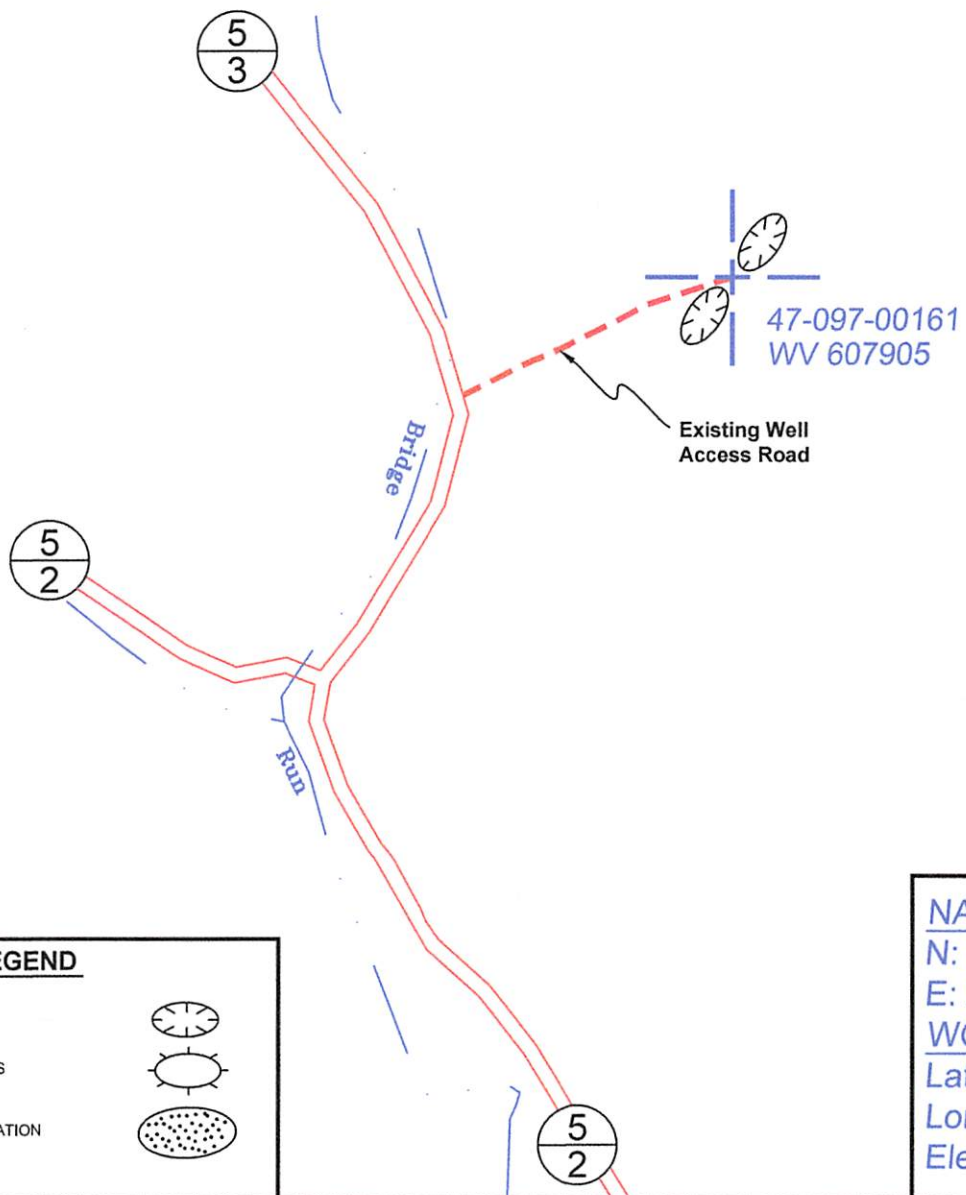
District: Buckhannon

Project No: 39-09-00-09

Highway

**47-097-00161 WV 607905 (Grose #7905)**

Pit Location Map



**LEGEND**

PIT-CUT WALLS



PIT-COMPACTED WALLS



AREA OF LAND APPLICATION OF PIT WASTE



NAD 27, South Zone  
 N: 741,032.89  
 E: 2,199,444.67  
 WGS 84  
 Lat: 39.033001  
 Lon: 80.297760  
 Elev: 1,401.47



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**

P.O. Box 280  
 Bridgeport, WV 26330

02/17/2017

Topo Quad: Berlin 7.5' Scale: 1" = 200'

County: Upshur Date: December 19, 2016

District: Buckhannon Project No: 39-09-00-09

**47-097-00161 WV 607905 (Grose #7905)**

Topo

Pit Location Map



CR-513

Existing Well Access Road

47-097-00161  
WV 607905

**LEGEND**

PIT-CUT WALLS



PIT-COMPACTED WALLS



AREA OF LAND APPLICATION OF PIT WASTE



NAD 27, South Zone

N: 741,032.89

E: 2,199,444.67

WGS 84

Lat: 39.033001

Lon: 80.297760

Elev: 1,401.47

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PREPARED FOR:

**EQT Production Company**

P.O. Box 280  
Bridgeport, WV 26330  
WV Department of  
Environmental Protection

02/17/2017



9700161P

Topo Quad: Berlin 7.5'

Scale: 1" = 2000'

County: Upshur

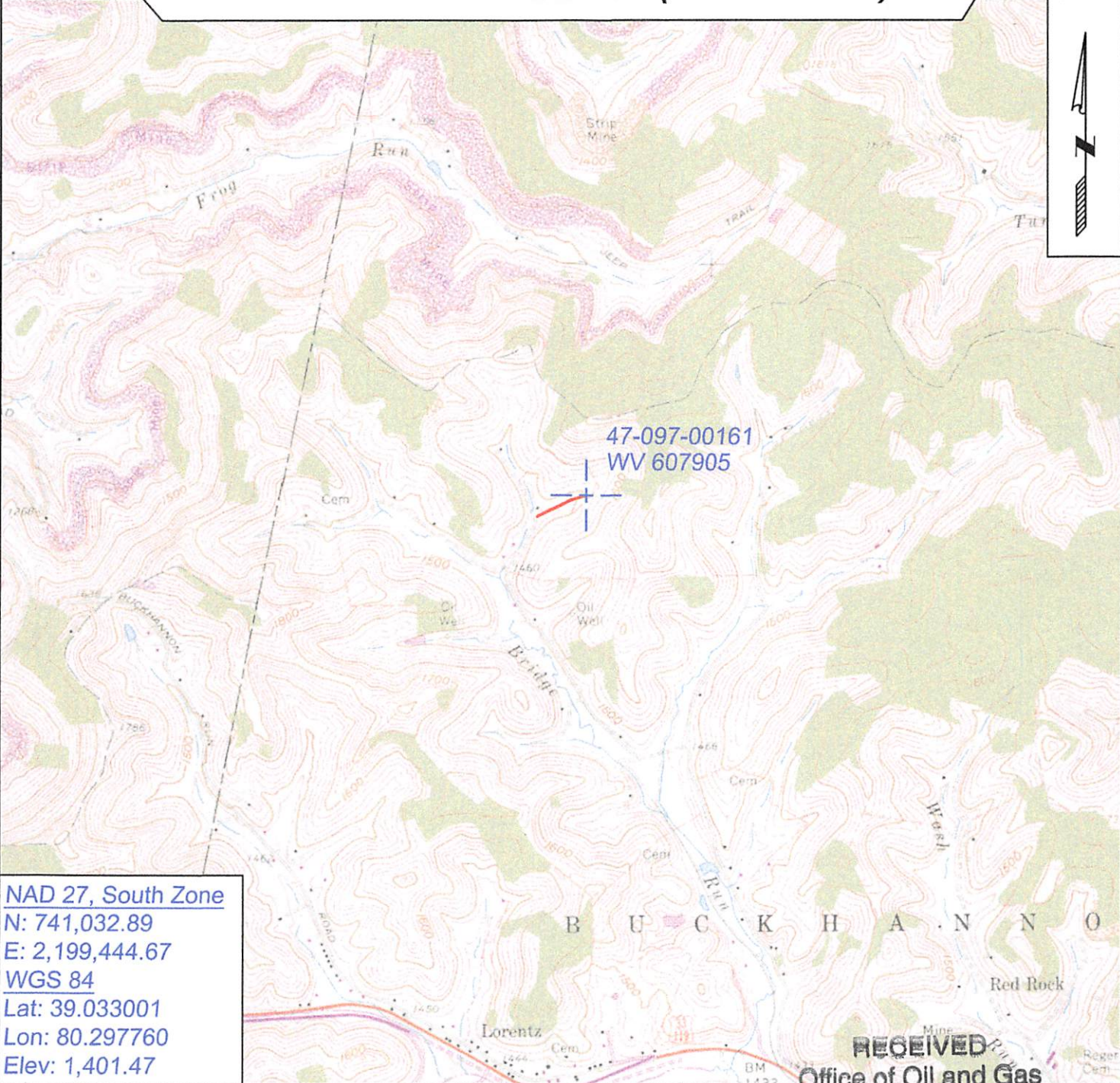
Date: December 19, 2016

District: Buckhannon

Project No: 39-09-00-09

**47-097-00161 WV 607905 (Grose #7905)**

Topo



NAD 27, South Zone  
 N: 741,032.89  
 E: 2,199,444.67  
 WGS 84  
 Lat: 39.033001  
 Lon: 80.297760  
 Elev: 1,401.47

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 BIRCH RIVER, WV 26610  
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 FAX: (304) 649-8608

PREPARED FOR:  
**EQT Production Company**  
 P.O. Box 280  
 WV Department of  
 Environmental Protection  
 02/17/2017

9700161P

WW-7  
8-30-06



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

API: 47-097-00161 WELL NO.: WV 607905 (Grose #7905)

FARM NAME: Grose

RESPONSIBLE PARTY NAME: EQT Production Company

COUNTY: Upshur DISTRICT: Buckhannon

QUADRANGLE: Berlin 7.5'

SURFACE OWNER: Shawn Ireland, Kelley Ireland and George Ireland

ROYALTY OWNER: Joyce Properties Inc.

UTM GPS NORTHING: 4320673

UTM GPS EASTING: 560780 GPS ELEVATION: 427 m (1401 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.

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[Signature]  
Signature

PS # 2180  
Title

JAN 11 2017  
12/20/16  
WV Dept of  
Environmental Protection

02/17/2017

9700161P



### POTENTIAL WATER SAMPLE DATA SHEET

**CLIENT:** EQT Production Company  
**LEASE NAME AND WELL NO.** Grose #7905 - WV 607905 - 47-097-00161

#### POTENTIAL SAMPLE LOCATIONS

**Site 1**

**Spacing:** 710' **Owner:** George T. Ireland **Phone No.** \_\_\_\_\_  
**Address:** RR 1 Box 101-4, Buckhannon, WV 23201  
**Comments:** Parcel 19

**Site 2**

**Spacing:** 890' **Owner:** Joseph & Kathy Rolenson **Phone No.** \_\_\_\_\_  
**Address:** Rt 1 Box 101-5, Buckhannon, WV 23201  
**Comments:** Parcel 19.2

**Site 3**

**Spacing:** 1000' **Owner:** Wayne & Linda Hinter **Phone No.** \_\_\_\_\_  
**Address:** RR 1 Box 101-B, Buckhannon, WV 23201  
**Comments:** Parcel 20

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**Office of Oil and Gas**

**BIRCH RIVER OFFICE**  
237 Birch River Road  
Birch River, WV 26610  
*phone:* 304-649-8606  
*fax:* 304-649-8608

**BRIDGEPORT OFFICE**  
172 Thompson Drive  
Bridgeport, WV 26330  
*phone:* 304-848-5035  
*fax:* 304-848-5037

**ALUM CREEK OFFICE**  
P.O. Box 108 • 1413 Childress Rd  
Alum Creek, WV 25003  
*phone:* 304-756-2949  
*fax:* 304-756-2948

**MARTINSBURG OFFICE**  
1101 S. Main Drive  
Martinsburg, WV 25404  
*phone:* 304-901-2162

**WV Department of**  
**Environmental Protection**

02/17/2017

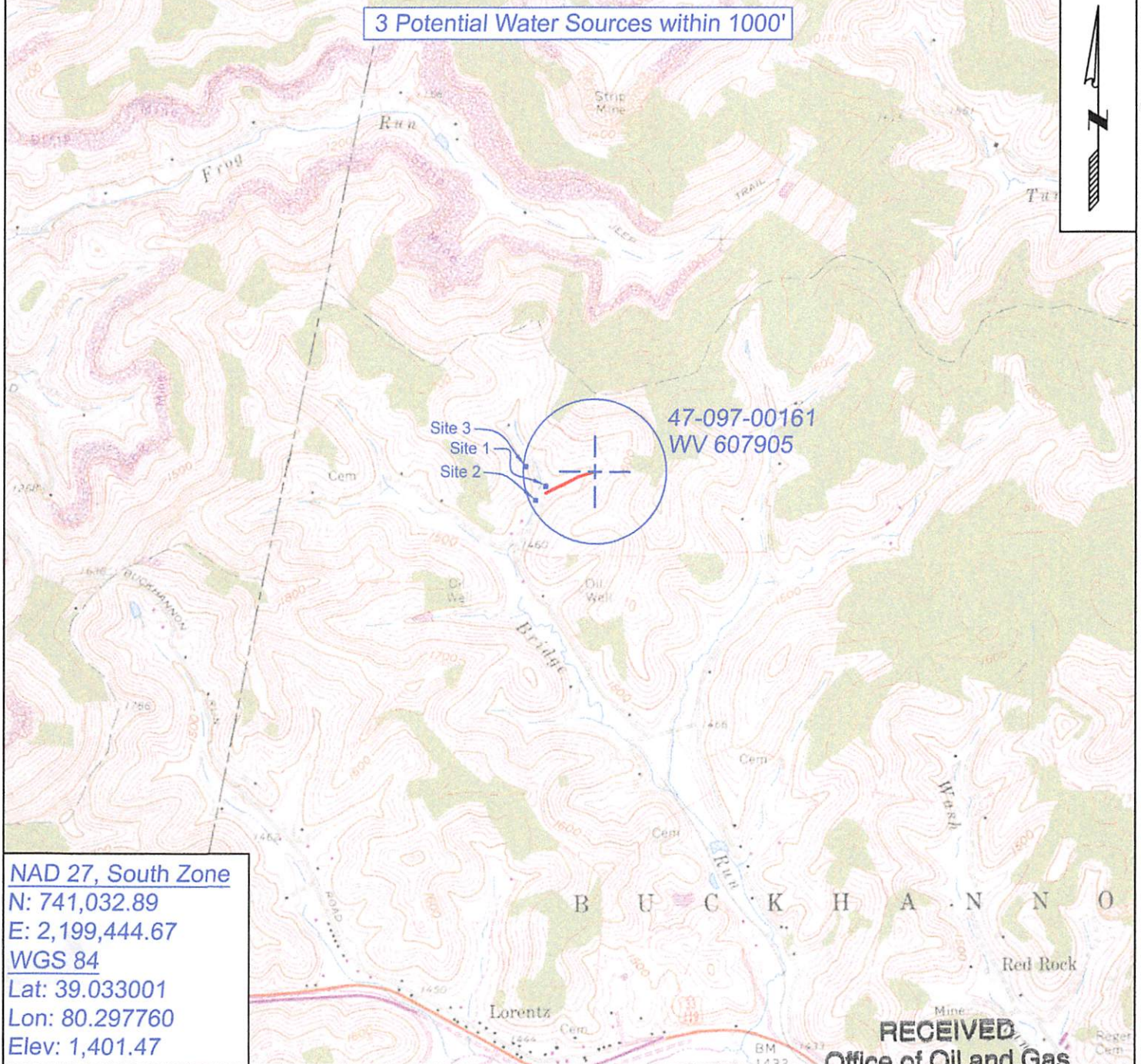
9700161P

Topo Quad: Berlin 7.5' Scale: 1" = 2000'  
 County: Upshur Date: December 19, 2016  
 District: Buckhannon Project No: 39-09-00-09

Water

### 47-097-00161 WV 607905 (Grose #7905)

3 Potential Water Sources within 1000'



NAD 27, South Zone  
 N: 741,032.89  
 E: 2,199,444.67  
WGS 84  
 Lat: 39.033001  
 Lon: 80.297760  
 Elev: 1,401.47

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 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**  
 P.O. Box 280  
 Bridgeport, WV 26301  
 JAN 11 2017  
 West Virginia Department of  
 Environmental Protection  
 02/17/2017



9700161A

January 25, 2017

Ms. Jeff McLaughlin  
West Virginia Department of Environmental Protection  
Office of Oil and Gas  
601 57th Street SE  
Charleston, WV 25304

Re: Revision to Plugging permit 47-097-00161

Dear Mr. McLaughlin,

Enclosed is an updated WW-2A form changing the coal owners name. The new owner has been noticed and a copy of the green card is attached.

If you have any questions, please do not hesitate to contact me at (304) 848-0076.

Sincerely,

A handwritten signature in blue ink, appearing to read 'Vicki Roark'.

Vicki Roark  
Permitting Supervisor-WV

Enc.

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Office of Oil and Gas  
JAN 26 2017  
WV Department of  
Environmental Protection

VOID



1) Date: January 3, 2017  
2) Operator's Well Number  
607905 (Grose #7905)  
3) API Well No.: 47 097 - 00161  
State County Permit

**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:	5) (a) Coal Operator:
(a) Name <u>George Ireland</u>	Name <u>None</u>
Address <u>1806 Orchard Road</u>	Address _____
<u>Fairmont, WV 26554</u>	_____
(b) Name _____	(b) Coal Owner(s) with Declaration
Address _____	Name <u>Joyce Properties</u>
_____	<u>P. O. Box 630</u>
_____	Address <u>Clarksburg, WV 26302</u>
(c) Name _____	Name _____
Address _____	Address _____
_____	_____
6) Inspector <u>Bryan Harris</u>	(c) Coal Lessee with Declaration
Address <u>P. O. Box 157</u>	Name <u>None</u>
<u>Volga, WV 26238</u>	Address _____
Telephone <u>(304) 553-6087</u>	_____

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

- (1) The application to Plug and Abandon a Well on Form WW-4B, which sets out the parties involved in the work and describes the well its and the plugging work order; and
  - (2) The plat (surveyor's map) showing the well location on Form WW-6.
- The reason you received these documents is that you have rights regarding the application which are summarized in the instructions on the reverses side. However, you are not required to take any action at all.

Take notice that under Chapter 22-6 of the West Virginia Code, the undersigned well operator proposes to file or has filed this Notice and Application and accompanying documents for a permit to plug and abandon a well with the Chief of the Office of Oil and Gas, West Virginia 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.

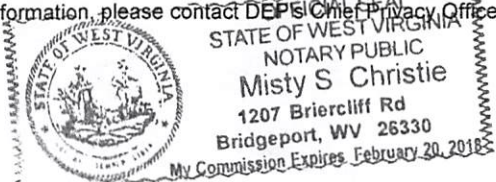
Well Operator:	<u>EQT Production Company</u>
By:	<u>Victoria J. Roark</u>
Its:	<u>Permitting Supervisor</u>
Address:	<u>PO Box 280</u>
	<u>Bridgeport, WV 26330</u>
Telephone:	<u>(304) 848-0076</u>

Subscribed and sworn before me this 7th day of January, 2017  
Misty S. Christie Notary Public

My Commission Expires: 2/20/18

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Office of Oil and Gas

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 DEPR's Chief Privacy Officer at [depprivacyoffice@wv.gov](mailto:depprivacyoffice@wv.gov)



WV Department of Environmental Protection  
02/17/2017

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7016 2070 0001 0947 7607

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**CERTIFIED MAIL® RECEIPT**  
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Certified Mail Fee \$ \_\_\_\_\_

Extra Services & Fees (check box, add fee as appropriate)

<input type="checkbox"/> Return Receipt (hardcopy)	\$ _____
<input type="checkbox"/> Return Receipt (electronic)	\$ _____
<input type="checkbox"/> Certified Mail Restricted Delivery	\$ _____
<input type="checkbox"/> Adult Signature Required	\$ _____
<input type="checkbox"/> Adult Signature Restricted Delivery	\$ _____

Postage \$ \_\_\_\_\_

Total \$ \_\_\_\_\_

Sent to \_\_\_\_\_

Street \_\_\_\_\_

City, State, ZIP+4® \_\_\_\_\_

Plugging Permit #607905

PS Form 3800, April 2015 PSN 7530-02-000-9047 See Reverse for Instructions

VOID

neopost®  
01/10/2017  
US POSTAGE  
\$07.78  
FIRST CLASS PERM  
ZIP 26330  
041L1022886

**VOID**

Clarksburg, WV 26302  
Plugging Permit #607905

mc

Postmark Here

Shipping Department  
Auction  
280  
rt, WV 26330

**SENDER: COMPLETE THIS SECTION**

1. Article Addressed to:  
Joyce Properties  
P. O. Box 630  
Clarksburg, WV 26302  
Plugging Permit #607905

2. Article Number (Transfer from service label)  
7016 2070 0001 0947 7607

3. Service Type  
 Certified Mail®  
 Certified Mail Restricted Delivery  
 Adult Signature  
 Registered Mail™  
 Registered Mail Restricted Delivery  
 Priority Mail Express®  
 Return Receipt for Merchandise  
 Collect on Delivery  
 Collect on Delivery Restricted Delivery  
 Signature Confirmation™  
 Restricted Delivery

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

5. Received by (Printed Name) \_\_\_\_\_  
C. Date of Delivery \_\_\_\_\_

6. Agent  Addressee

7. Complete items 1, 2, and 3. Attach this card to the back of the mailpiece, or on the front if space permits.

PS Form 3811, July 2015 PSN 7530-02-000-9053

02/17/2017