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**west virginia** department of environmental protection

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

Earl Ray Tomblin, Governor  
Randy C. Huffman, Cabinet Secretary  
www.dep.wv.gov

January 04, 2016

**WELL WORK PLUGGING PERMIT**

**Plugging**

This permit, API Well Number: 47-9700096, issued to EQT PRODUCTION COMPANY, is evidence of permission granted to perform the specified well work at the location described on the attached pages and located on the attached plat, subject to the provisions of Chapter 22 of the West Virginia Code of 1931, as amended, and all rules and regulations promulgated thereunder, and to all conditions and provisions outlined in the pages attached hereto. Notification shall be given by the operator to the Oil and Gas Inspector at least 24 hours prior to the construction of roads, locations, and/or pits for any permitted work. In addition, the well operator shall notify the same inspector 24 hours before any actual well work is commenced and prior to running and cementing casing. Spills or emergency discharges must be promptly reported by the operator to 1-800-642-3074 and to the Oil and Gas inspector.

Upon completion of the plugging well work, the above named operator will reclaim the site according to the provisions of WV Code 22-6-30. The above named operator will also file, as required in WV Code 22-6-23, an affidavit on form WR-38 by two experienced persons in the operator's employment and the Oil and Gas inspector that the work authorized under this permit was performed and a description given. Failure to abide by all statutory and regulatory provisions governing all duties and operations here under may result in suspensions or revocation of this permit and in addition may result in civil and/or criminal penalties being imposed upon the operator.

This permit will expire in two (2) years from date of issue. If there are any questions, please free to contact me at (304) 926-0499 ext. 1654.

James Martin  
Chief

Operator's Well No: 7786  
Farm Name: HIGGINBOTHAM, MARY F.  
**API Well Number: 47-9700096**  
**Permit Type: Plugging**  
Date Issued: 01/04/2016

**Promoting a healthy environment.**

**01/08/2016**

## 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.

CR# 20018  
\$100.00

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

Date: November 20, 2015  
Operator's Well  
Well No. 607786 (M. Higginbotham #1 - #7786)  
API Well No.: 47 097 - 00096

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

APPLICATION FOR A PERMIT TO PLUG AND ABANDON

1) Well Type: Oil \_\_\_\_\_ Gas X Liquid Injection \_\_\_\_\_ Waste Disposal: \_\_\_\_\_  
 If Gas, Production \_\_\_\_\_ X Or Underground storage \_\_\_\_\_ Deep \_\_\_\_\_ Shallow X

2) Elevation: 1609 ft. Watershed: Sauls Run  
 Location: Buckhannon County: Upshur Quadrangle: Berlin 7.5'  
 District: \_\_\_\_\_

3) 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

3) 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 P. Harris Date 12-2-15



## PLUGGING PROGNOSIS

Higginbotham, M.F. #1 (607786)  
 Upshur Co. WV  
 District, Buckhannon  
 API # 47-097-00096

BY: Craig Duckworth  
 DATE: 11/17/15

### **CURRENT STATUS:**

10" csg @ 333'  
 8 1/4" csg @ 1056'  
 6 5/8" csg @ 2575'  
 3" csg @ 4669' ( packer @ 4382')  
 Elevation @ 1583'

**TD: 4669'**

Fresh Water @ 30' Coal, @ 214'-218'  
 Saltwater @ none reported  
 Gas shows @ 2702', 4634'-4640'

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Office of Oil and Gas  
 WV Dept. of Environmental Protection

1. Notify State Inspector, **Bryan Harris @ 304-553-6087**, 48 hrs.prior to commencing operations.
2. Check TD w/wireline.
3. Attempt to pull 3", Free point & shoot/cut off at packer @ 4382'
4. TOOH w/3"
5. TIH w/tbg to 4669', set 200' C1A cement plug from 4669' to 4569'. (Gas show at 4634'-4640')
6. TOOH w/tbg to 4569', gel hole 4569' to 3700'
7. TOOH w/tbg to 3700' set 200' C1A cement plug from 3700' to 3500', (safety plug).
8. TOOH w/tbg to 3500' gel hole 3500' to 2752'.
9. 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.
10. TOOH w/tbg to 2752', set 250' C1A cement plug 2752' to 2502'. (Gas show @ 2702').
11. TOOH w/tbg, Free point 6 5/8" csg, cut csg @ free point, TOOH w/csg.
12. 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.
13. TIH w/tbg to 2502' gel hole from 2502' to 1633'.
14. TOOH w/tbg to 1633', set 100' C1A cement plug 1633' to 1533'. (elevation @ 1583').

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15. TOOH w/tbg to 1533', gel hole 1533' to 1100'.
16. TOOH w/tbg to 1100', set 100' C1A cement plug 1100' to 1000'. (8 1/4" csg seat @1056').
17. TOOH w/tbg, Free point 8 1/4" csg, cut csg at free point, TOOH w/csg.
18. 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.
- ★ 19a → 19. TIH w/tbg to 1000' gel hole from 1000' to 400'.
20. TOOH w/tbg to 400', set 400' C1A cement plug, 400' to 0. (10" csg @ 333' & coal @ 214'-218' & FW @ 30') gms
21. ~~Free point 10" casing, cut casing @ free point, TOOH w/csg.~~
22. ~~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~~
23. Erect monument with API#
24. Reclaim location and road to WV-DEP specifications.

★ 19a. TRY TO PULL 10" CASING. IF PULLED, SET A CLASS A CEMENT PLUG FROM 400' TO SURFACE. CONTINUE TO STEP 23. IF 10" IS NOT PULLED CONTINUE TO STEP 20.

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WV Dept. of Environmental Protection

WEST VIRGINIA DEPARTMENT OF MINES  
OIL & GAS DIVISION  
W E L L R E C O R D

Permit No. Up-96  
Weston S. E. Quad.

Gas Well

Company Pittsburgh & W. Va. Gas Co.  
Address Clarksburg, W. Va.  
Farm Mary F. Higginbotham ACRES 500  
Location Weston S/E 4-3  
Well No. 7786 ELEV. 1583 VA  
District Buckhannon - Upshur County  
Surface & Mineral Lula C. Higginbotham, et al  
Address 65 S Kanawha St., Buckhannon, W. Va.  
Commenced April 14, 1941  
Completed July 1, 1941  
Shot 7/1/41 - depth 4631-4644  
Open Flow 29/10ths Merc. in 1-1/2"  
Volume 408,000 c.f.  
Rock Pressure 1740 lbs. 48 hrs.  
Water -

CASING & TUBING		
10	333	333
8-1/4	1056	1056
6-5/8	2575	2575
3	4669	4669

Packer - Combination  
Size - 6-5/8x3  
Depth set - 4322  
Perf. top - 4623  
" bot. - 4626

Coal at 214' 48"

Clay	rd	s	0	20	1st Salt Sd.	wh	h	1138	1178	
Soapstone	wh	s	20	30	W 25 1BH Slate&Shells	dk	s	1178	1203	
Red Rock	rd	s	30	69	Limo	dk	h	1203	1223	
Sand	dk	h	69	81	Slate	wh	s	1223	1237	
Red Rock	rd	s	81	100	Limo	dk	h	1237	1256	
Limo	dk	h	100	195	Slate	wh	s	1256	1261	
Slate	wh	s	195	214	Limo	dk	h	1261	1275	
Coal	bk	s	214	218	2nd Salt Sd	dk	h	1275	1310	
Limo	dk	h	218	239	Slate	wh	s	1310	1311	
Slate	wh	s	239	315	2nd Salt Sd	dk	h	1311	1432	
Limo	dk	h	315	339	Slate&Shells	dk	s	1432	1471	
Red Rock	rd	s	339	349	Limo	dk	h	1471	1530	W 1526 1BH
Limo	dk	h	349	361	Slate	wh	s	1530	1555	
Slate	wh	s	361	376	Limo	dk	h	1555	1576	
Red Rock	rd	s	376	398	Sand	wh	h	1576	1644	
Limo	dk	h	398	414	Slate	bk	s	1644	1679	
Red Rock	rd	s	414	426	Slate	wh	s	1679	1695	
Limo	dk	h	426	440	Rod Rock	rd	s	1695	1735	
Red Rock	rd	s	440	473	Limo	dk	h	1735	1763	
Limo	dk	h	473	491	Maxon Sand	wh	h	1763	1830	
Red Rock	rd	s	491	506	Rod Rock	rd	s	1830	1857	
Limo	dk	h	506	528	Limo	dk	h	1857	1873	
Red Rock	rd	s	528	540	Rod Rock	rd	s	1873	1879	
Limo	dk	h	540	554	Limo	dk	h	1879	1893	
Slate	wh	s	554	566	Slate	wh	s	1893	1902	
Red Rock	rd	s	566	586	Limo	dk	h	1902	1917	
Slate	wh	s	586	607	Slate&Shells	wh	s	1917	1949	
Limo	dk	h	607	618	Big Limo	wh	h	1949	2040	SL 1990
Slate	wh	s	618	623	Big Injun S	wh	h	2040	2164	
Limo	dk	h	623	661	Slate	wh	s	2164	2167	
Slate	wh	s	661	667	Sand	dk	h	2167	2177	
Red Rock	rd	s	667	712	Slate	wh	s	2177	2185	
Slate	wh	s	712	721	Squaw Sand	dk	h	2185	2217	
Limo	dk	h	721	736	Slate	wh	s	2217	2226	
Slate&Shells	wh	s	736	772	Limo	dk	h	2226	2260	
Limo	dk	h	772	798	Sand	dk	h	2260	2309	
Slate	wh	s	798	825	Slate	wh	s	2309	2312	
Limo	dk	h	825	853	Sand	dk	h	2312	2322	
Slate	wh	s	853	870	Slate	wh	s	2322	2330	
Limo	dk	h	870	897	Gantz Sand	wh	h	2330	2386	
Slate	wh	s	897	903	Slate	wh	s	2386	2392	
Limo	dk	h	903	975	Sand	dk	h	2392	2401	
Slate	wh	s	975	981	Slate	wh	s	2401	2406	
Limo	dk	h	981	991	Rod Rock	rd	s	2406	2410	
Slate	bk	s	991	998	Sand	dk	h	2410	2420	
Limo	dk	s	998	1018	Slate&Shells	wh	s	2420	2447	
Limo	dk	h	1018	1032	Limo	dk	h	2447	2468	
Slate	wh	s	1032	1065	Rod Rock	rd	s	2468	2477	
Gas Sand	dk	h	1065	1091	Limo	dk	h	2477	2492	
Slate&Shells	wh	s	1091	1118						
Limo	dk	h	1118	1138						

Continued to page #2

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Office of Oil and Gas  
WV Dept. of Environmental Protection

WELL RECORD CONT'D

Permit No. Up-96  
 Company Pittsburgh & W. Va. Gas Co.  
 Farm Mary F. Higginbotham  
 Acres 500  
 Location Weston S/E  
 Well No. 7786  
 Commenced April 14, 1941  
 Completed July 1, 1941

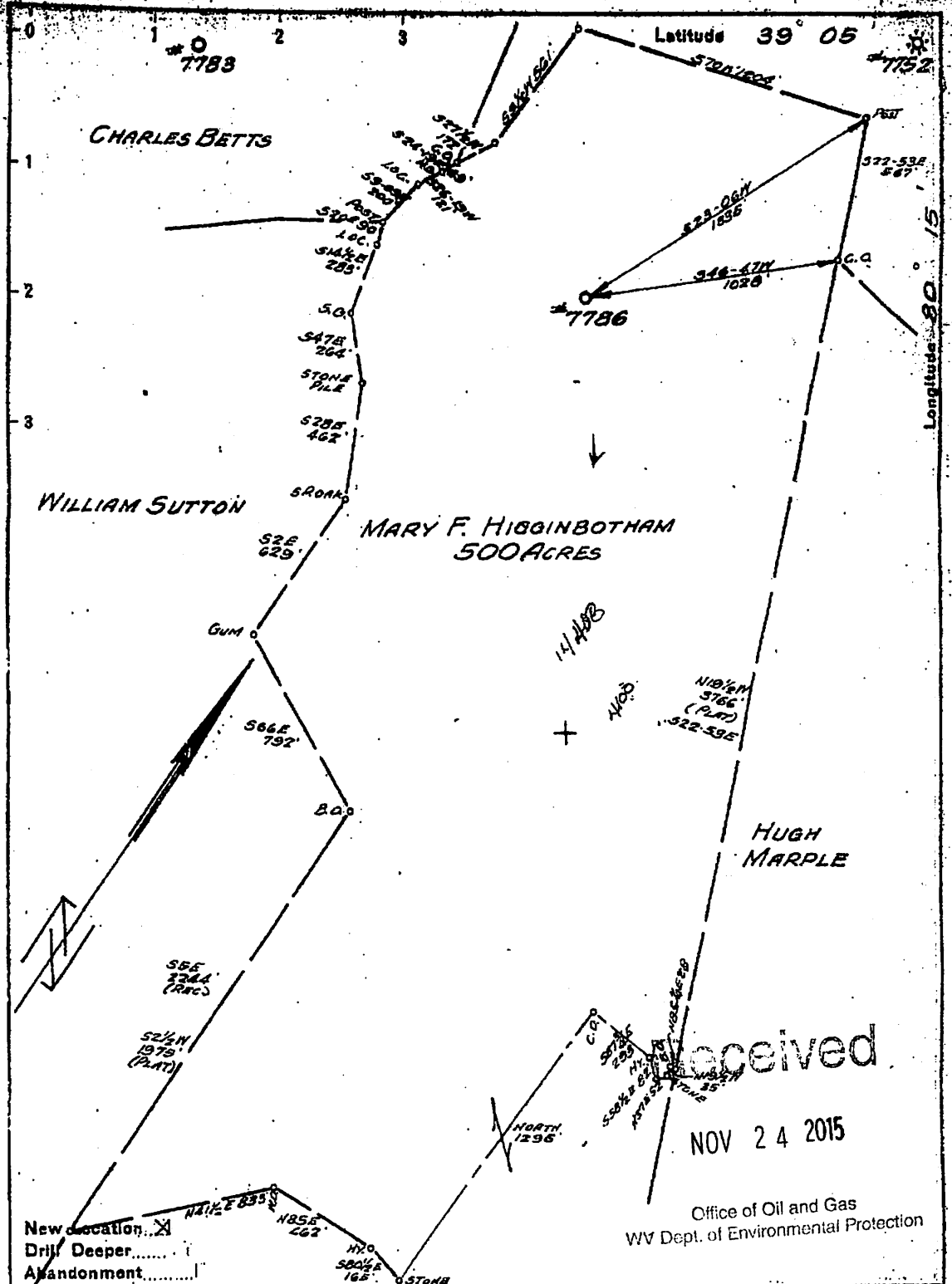
Red Rock	rd s	2492	2511	
Red Rock Shells	rd s	2511	2564	
Sand	dk h	2564	2660	
Slate&Shells	wh s	2660	2712	Sh. Gas 2702
Sand	dk h	2712	2779	
Limo	dk s	2779	2842	
Slate&Shells	wh s	2842	2900	
Limo	dk h	2900	2936	
Slate&Shells	wh s	2936	2947	
Limo	dk h	2947	3022	
Slate & Shells	wh s	3022	3088	
Limo	dk h	3088	3120	
Slate&Shells	wh s	3120	3152	
Limo	dk h	3152	3183	
Slate&Shells	wh s	3183	3196	
Gritty Limo	dk h	3196	3287	
Sand	wh h	3287	3307	
Slate	wh s	3307	3309	
Limo	dk h	3309	3326	
Slate&Shells	s	3326	3351	
Limo	dk h	3351	3400	
Slate&Shells	wh s	3400	3418	
Limo	dk h	3418	3457	
Slate&Shells	wh s	3457	3628	
Limo	dk h	3628	3787	
Slate&Shells	wh s	3787	3832	
Limo	dk h	3832	3998	
Slate&Shells	wh s	3998	4053	
Limo	dk h	4053	4078	
Slate&Shells	wh s	4078	4082	
Limo	dk h	4082	4106	
Slate&Shells	wh s	4106	4160	
Limo	dk h	4160	4178	
Slate&Shells	wh s	4178	4234	
Limo	dk h	4234	4247	SL 4245
Slate&Shells	wh s	4247	4326	
Limo	dk h	4326	4342	
Slate&Shells	wh s	4342	4374	
Limo	dk h	4374	4389	
Slate&Shells	wh s	4389	4631	SL 4635
Benson Sand	bn h	4631	4654	Gas 4634-4640 32/10 W 1-1/2"
Limo	dk h	4654	4669	
Total Depth			4669	

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Office of Oil and Gas  
WV Dept. of Environmental Protection





New location...    
 Drill Deeper...    
 Abandonment...

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 Office of Oil and Gas  
 WV Dept. of Environmental Protection

Company PITTSBURGH & W.V.A. GAS CO.  
 Address CLARKSBURG, W.V.A.  
 Farm MARY F. HIGGINBOTHAM ET AL  
 Tract \_\_\_\_\_ Acres 500 Lease No. 21717  
 Well (Farm) No. ONE Serial No. 7786  
 Elevation (Spirit Level) 1583' VA.  
 Quadrangle WESTON S.E. 43  
 County UPSHUR District BUCKHANNON  
 Engineer Jarment Jaffins  
 Engineer's Registration No. 1084  
 File No. V-76 P-98 Drawing No. \_\_\_\_\_  
 Date 2-6-41 Scale 1" = 500'

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

WELL LOCATION MAP  
 FILE NO. UP-96

+ Denotes location of well on United States Topographic Maps, scale 1 to 62,500, latitude and longitude lines being represented by border lines as shown.  
 - Denotes one inch spaces on border line of original tracing.

01/08/2016



WW-4-A  
Revised 6/07

- 1) Date: November 20, 2015
- 2) Operator's Well Number  
607786 (M. Higginbotham #1 - #7786)
- 3) API Well No.: 47 097 - 00096  
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:

(a) Name Charles R. Bell, Sr.  
 Address P. O. Box 1069  
Bellington, WV 26150

(b) Name Windamar, Inc.  
 Address 51 Boggess Street  
Buckhannon, WV 26150

(c) Name Mike Ross, Inc.  
 Address P. O. Box 219  
Coalton, WV 26257

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

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

(b) Coal Owner(s) with Declaration  
 Name \_\_\_\_\_  
 Address \_\_\_\_\_

(c) Coal Lessee with Declaration  
 Name None  
 Address \_\_\_\_\_

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Office of Oil and Gas  
WV Dept. of Environmental Protection

**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:**  
**EQT Production Company**  
Victoria J. Roark  
**Permitting Supervisor**  
PO Box 280  
Bridgeport, WV 26330  
(304) 848-0076

Subscribed and sworn before me this 23rd day of November, 2015  
Misty S. Christie  
 My Commission Expires: 2/20/18

day of November, 2015  
 Notary Public

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



**STATE OF WEST VIRGINIA  
DEPARTMENT OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL & GAS  
CONSTRUCTION AND RECLAMATION PLAN AND SITE REGISTRATION APPLICATION FORM  
GENERAL PERMIT FOR OIL AND GAS PIT WASTE DISCHARGE**

Operator Name: EQT PRODUCTION COMPANY OP ID: \_\_\_\_\_

Watershed: Sauls Run Quadrangle: Berlin 7.5'

Elevation: 1609 ft. County: Upshur District: Buckhannon

Description of anticipated Pit Waste: Formation Fluids

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

Will synthetic liner be used in the pit? Yes Is so, what ml.? 10 ml

Proposed Disposal Method for Treated Pit Wastes:

- Land Application
- Underground Injection - UIC Permit Number \_\_\_\_\_
- Reuse (at API Number) \_\_\_\_\_
- Offsite Disposal Permit #. \_\_\_\_\_
- Other: Explain \_\_\_\_\_

Drilling medium anticipated for this well? Air, freshwater, oil based, etc.  
If oil based, what type? Synthetic, petroleum, etc.

**Received**

Additives to be used? \_\_\_\_\_ NOV 24 2015

Will closed loop system be used? \_\_\_\_\_

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? \_\_\_\_\_

Office of Oil and Gas  
WV Dept. of Environmental Protection

I certify that I understand and agree to the terms and conditions of the GENERAL WATER POLLUTION PERMIT issued on August 1, 2005, by the Office of Oil and Gas of the West Virginia Division of Environmental Protection. I understand that the provisions of the permit are enforceable by law. Violations of any terms 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 \_\_\_\_\_ *[Signature]*

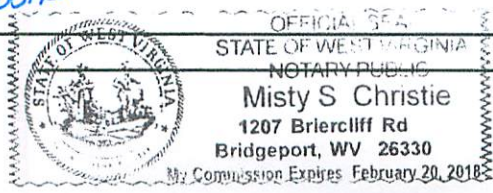
Company Official (Typed or Printed) Victoria Roark

Company Official Title Permitting Supervisor-WV

Subscribed and sworn before me this 23rd day of November, 2015

*Misty S. Christie*

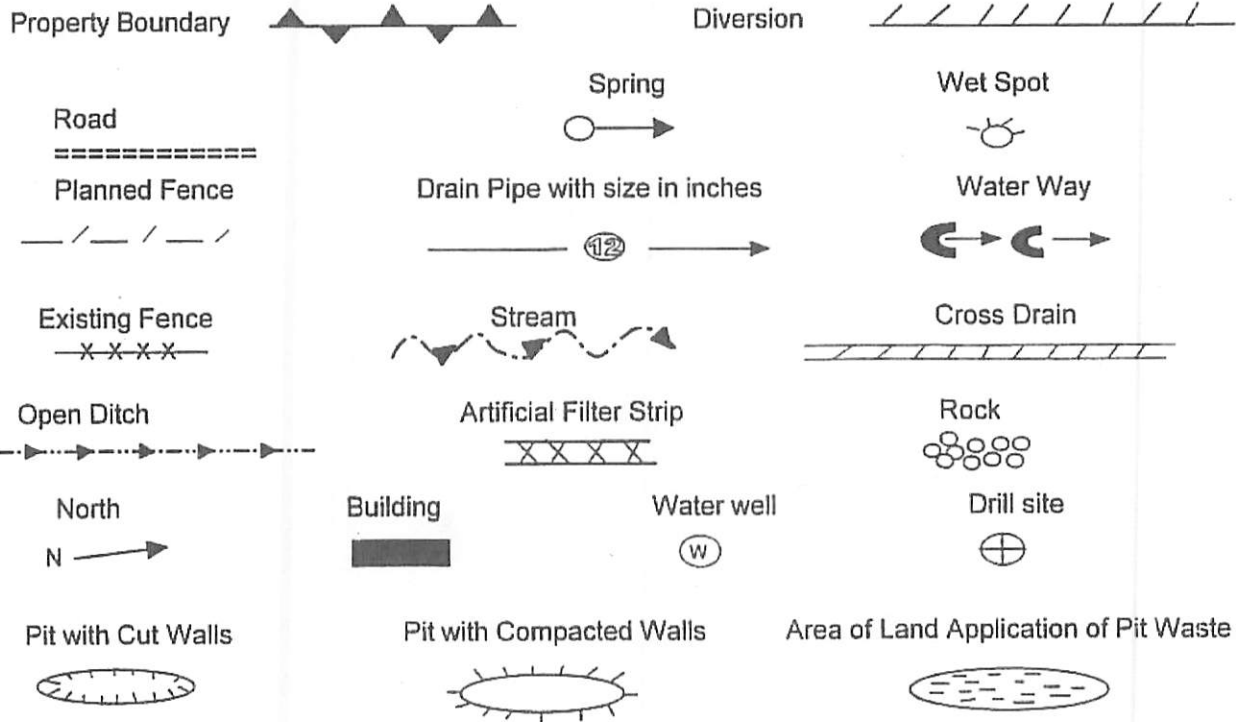
My Commission Expires \_\_\_\_\_ Notary Public \_\_\_\_\_ 02/20/18



**01/08/2016**

**OPERATOR'S WELL NO.:**  
7786 (M. Higginbotham #1 - #7786)

**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: *Boyan O'Hara*

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

Title: Inspection Date: 12-2-15  
 Field Reviewed? X Yes        No



9700096P

Topo Quad: Berlin 7.5'

Scale: 1" = 2000'

County: Upshur

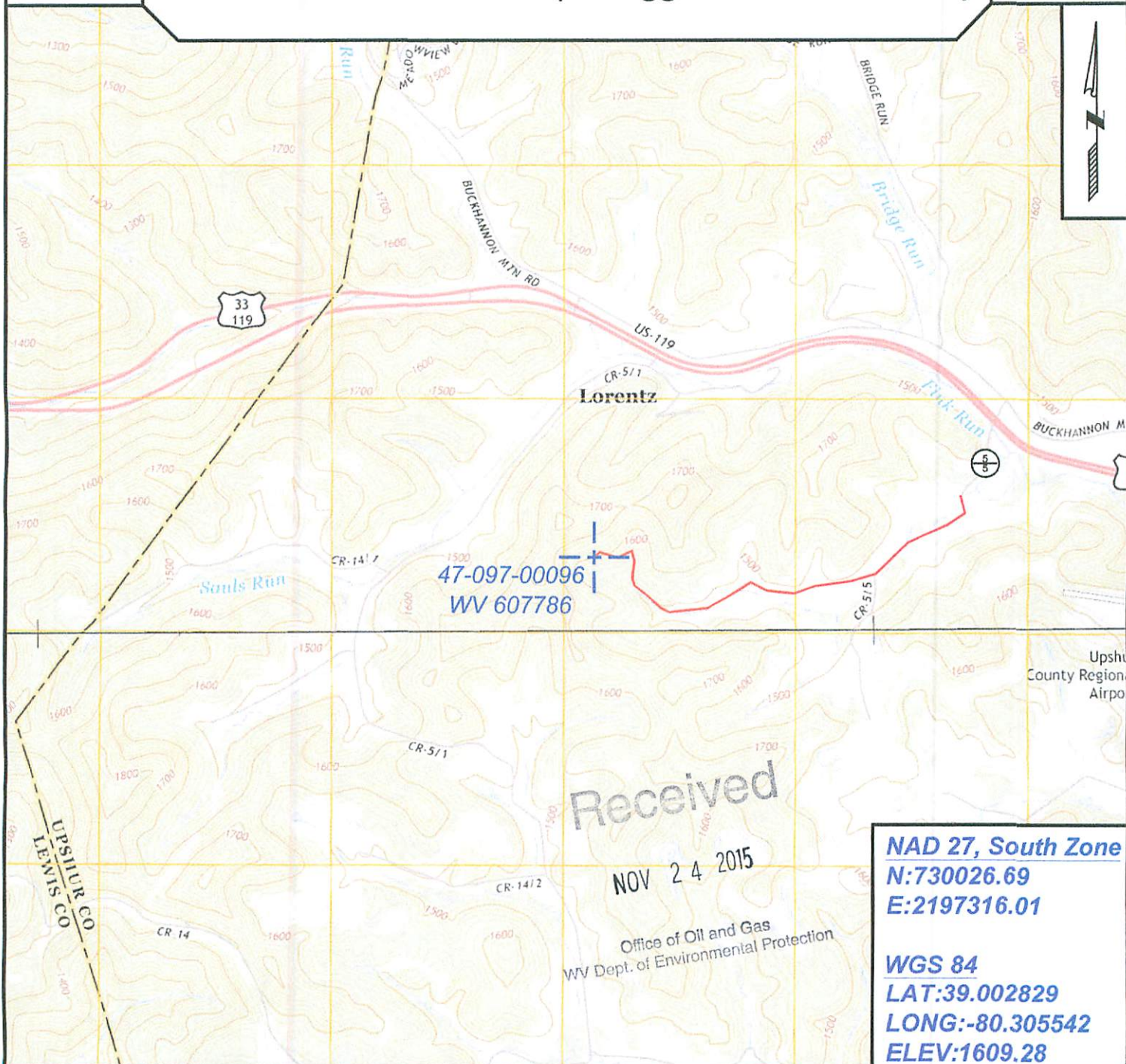
Date: October 26, 2015

District: Buckhannon

Project No: 39-09-00-09

47-097-00096 WV 607786 (M. Higginbotham #1 - 7786)

Topo



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

01/08/2016



9700096P

WW-7  
8-30-06



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

API: 47-097-00096 WELL NO.: WV 607786 (M. Higginbotham #1 - #7786)

FARM NAME: Mary F. Higginbotham

RESPONSIBLE PARTY NAME: EQT Production Company

COUNTY: Upshur DISTRICT: Buckhannon

QUADRANGLE: Berlin 7.5'

SURFACE OWNER: Charles R. Bell Sr.

ROYALTY OWNER: EQT Production Company, et al.

UTM GPS NORTHING: 4317320

UTM GPS EASTING: 560132 GPS ELEVATION: 490 m (1609 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 South, 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.

*Stacy Obama*  
Signature

PS# 2180  
Title

11/11/15  
Date

Received

NOV 21 2015

Office of Oil and Gas  
WV Dept. of Environmental Protection

01/08/2016



9700096P

Topo Quad: Berlin 7.5' Scale: 1" = 2000'

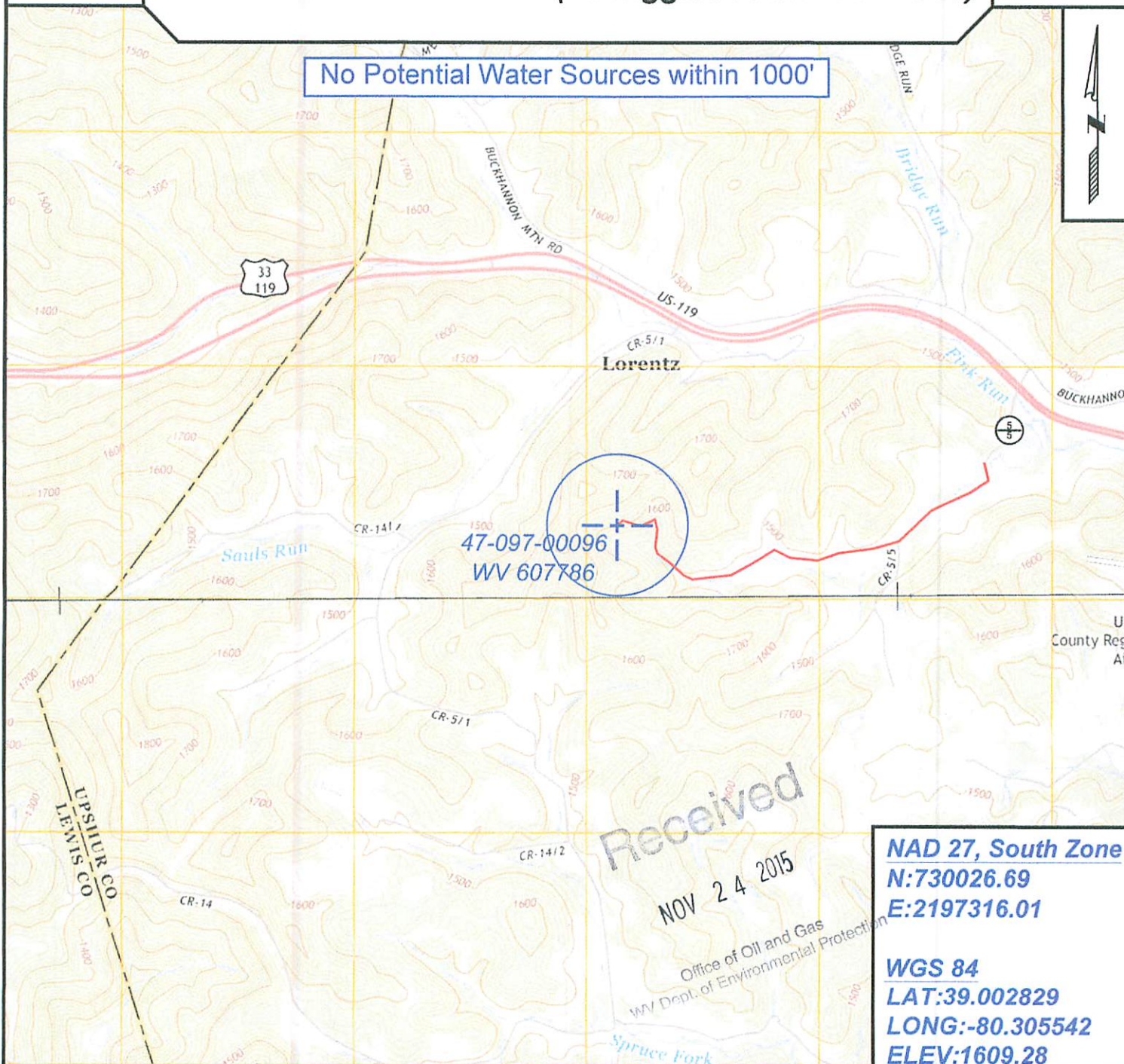
County: Upshur Date: October 26, 2015

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

Water

47-097-00096 WV 607786 (M. Higginbotham #1 - 7786)

No Potential Water Sources within 1000'



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Office of Oil and Gas  
WV Dept. of Environmental Protection

NAD 27, South Zone  
N:730026.69  
E:2197316.01

WGS 84  
LAT:39.002829  
LONG:-80.305542  
ELEV:1609.28



SURVEYING AND MAPPING SERVICES PERFORMED BY:

**ALLEGHENY SURVEYS, INC.**

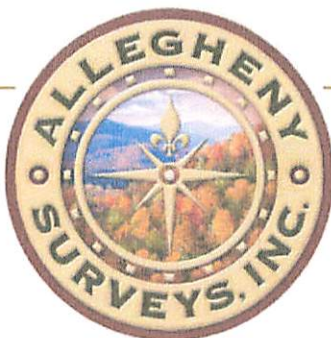
1-800-482-8606  
237 Birch River Road  
Birch River, WV 26610  
PH: (304) 649-8606  
FAX: (304) 649-8608

PREPARED FOR:

**EQT Production Company**

P.O. Box 280  
Bridgeport, WV 26330

01/08/2016



## POTENTIAL WATER SAMPLE DATA SHEET

CLIENT: EQT PRODUCTION COMPANY  
 LEASE NAME AND WELL No. M. Higginbotham #1 - 7786 - WV 607786 - API No. 47-097-00096.

### POTENTIAL SAMPLE LOCATIONS

There appears to be no known water samples within the required 1000' of the existing well WV 607786.

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Office of Oil and Gas  
 WV Dept. of Environmental Protection

#### 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

#### RANSON OFFICE

401 South Fairfax Blvd, Suite 3  
 Ranson, WV 25438  
*phone:* 304-724-5008  
*fax:* 304-724-5010



**MUWV FAX-A-LOCATE SYSTEM INPUT FORM**

**WV 607786**

**Attention:** Use of this system is a privilege limited to registered users adhering to the following guidelines:

- (1) Use limited to routine requests (48 hr. advance notification, excluding weekends and holidays). All other locate requests must be called in to 800-245-4848
- (2) Users must allow an additional 2 hours processing time for a total of 50 hours minimum lead-time.
- (3) Forms other than this one will not be accepted
- (4) Forms with insufficient or vague information will be returned for correction
- (5) Failure of any user to follow these guidelines can result in the loss of this privilege

**FAX COMPLETED FORM TO (800) 217-3720**

**PLEASE TYPE OR PRINT LEGIBLY**

CALLER \_\_\_\_\_ TELEPHONE # \_\_\_\_\_

FAX# \_\_\_\_\_ COMPANY NAME EOT PRODUCTION COMPANY

CO ADDRESS \_\_\_\_\_ CITY \_\_\_\_\_

WORKDATE \_\_\_\_\_ START TIME \_\_\_\_\_

COUNTY Upshur TOWN \_\_\_\_\_

WORKING WITHIN CORPORATE LIMITS OF TOWN? YES \_\_\_ or NO X

WORK SITE ADDRESS SEE REMARKS

NEAREST INTERSECTING ST U.S. Route 119 & 33 and WV County Route 5/5

**WHEN PHYSICAL ADDRESS PROVIDED; IS EXCAVATION DIRECTLY AT ABOVE ADDRESS?**  
YES \_\_\_ or NO \_\_\_ If no; excavation length beyond work site address \_\_\_\_\_ (Ft, Yds, Mi) and direction \_\_\_\_\_ (N,S,E,W)

When only intersection provided as work site location (no address #) Must answer the questions below:

- A. LOCATE TO BEGIN OR INCLUDE INTERSECTION? YES \_\_\_ or NO X  
Total Excavation Length To and Including Intersection \_\_\_\_\_ (Ft, Yds, Mi) direction \_\_\_\_\_ (N,S,E,W)
- B. LOCATE TO BEGIN A DISTANCE FROM AN INTERSECTION? YES X or NO \_\_\_  
If YES, How far 0.2 MILE (Ft, Yds, Mi) in what direction SOUTHWEST (N,S,E,W)
- C. WILL EXCAVATION LENGTH CONTINUE BEYOND THIS POINT? YES Y or NO \_\_\_  
If YES, How far 1.25 MILES (Ft, Yds, Mi) in what direction SOUTHWEST (N,S,E,W)

LATITUDE AND LONGITUDE GRIDS (GPS/GRID ID#) SEE EXHIBIT B

EXCAVATION DEPTH VARIES AREA MARKED IN WHITE? YES BLASTING? UNKNOWN

TYPE OF WORK \_\_\_\_\_

LOCATE: ST \_\_\_ SIDEWALK \_\_\_ PRIV PROP X FRONT \_\_\_ REAR \_\_\_ SIDES \_\_\_  
OTHER \_\_\_\_\_

WORKING FOR \_\_\_\_\_ CONTACT PERSON \_\_\_\_\_

CONTACT PHONE # \_\_\_\_\_ ALT PHONE # \_\_\_\_\_

ALT CONTACT PERSON \_\_\_\_\_ ALT PHONE # \_\_\_\_\_

ADDITIONAL REMARKS SEE EXHIBIT A & B

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NOV 24 2015

Office of Oil and Gas  
WV Dept. of Environmental Protection

*Excavators are advised that there may be other underground facilities at their work area that are owned or operated by parties that are not members of MUWV and who must be contacted directly by the excavator.*