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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

October 09, 2015

**WELL WORK PLUGGING PERMIT**

**Plugging**

This permit, API Well Number: 47-1302068, 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: BOARD 1  
Farm Name: STARCHER, BOBBY J.  
**API Well Number: 47-1302068**  
**Permit Type: Plugging**  
Date Issued: 10/09/2015

**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

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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.

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

Date: September 21, 2016  
Operator's Well  
Well No. 154571 (Board #1)  
API Well No.: 47 013 - 02068

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: 231 ft. Watershed: Rowies Run  
Location: Lee County: Calhoun Quadrangle: Annamoriah  
District: \_\_\_\_\_
- 6) Well Operator EQT Production Company  
Address: 120 Professional Place  
Bridgeport, WV 26330
- 7) Designated Agent: Rex C. Ray  
Address: 120 Professional Place  
Bridgeport, WV 26330
- 8) Oil & Gas Joe Taylor  
Name: 1478 Claylick Road  
Address: Ripley, WV 26271
- 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 [Signature] Date 10-2-15

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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: Rowles Run Quadrangle: Annamoriah  
Elevation: -231 ft. 759 ft. County: Calhoun District: Lee

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 20 ml *HP*

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. \_\_\_\_\_

Additives to be used? \_\_\_\_\_

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? \_\_\_\_\_

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.

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Company Official Signature *Victoria Roark*

Company Official (Typed or Printed) Victoria Roark

Company Official Title Permitting Supervisor-WV

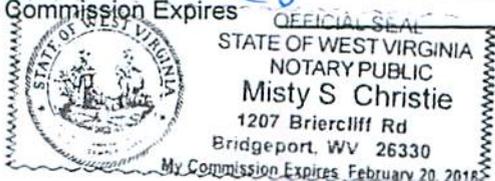
Subscribed and sworn before me this 22nd day of September, 2015

*Misty S. Christie*

Notary Public

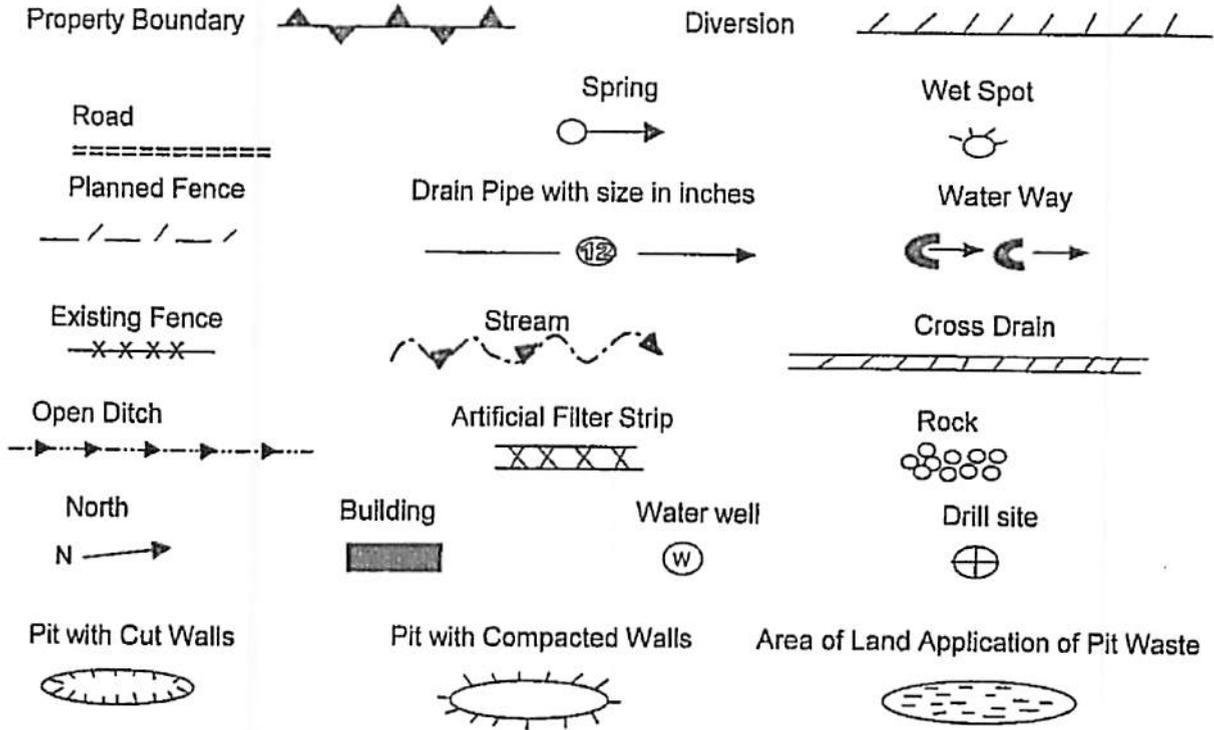
My Commission Expires

2/20/18



OPERATOR'S WELL NO.:  
154571 (Board #1)

**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		

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**ATTACH:**

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

Plan approved by: [Signature]

Comments: Sediment control to be in place each time.

Title: 006 Impact Date: 10-2-15  
 Field Reviewed? Yes  No

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## PLUGGING PROGNOSIS

**Board #1 (154571)**

Calhoun Co. W.V.  
 API # 47-013-02068  
 Dist.: Lee

BY: Craig Duckworth  
 DATE: 8/24/15

**CURRENT STATUS:**

10" csg @ 250' (pulled)  
 8 1/4" csg @ 880' (pulled)  
 6 5/8" csg @ 1730' (pulled)  
 4 1/2" csg @ 2245' (75sks)

TD @ 2250'

Fresh Water @ None reported      Salt Water @ none reported  
 Coal @ None reported  
 Gas Shows @ None reported  
 Oil Shows @ None reported  
 Stimulation: Fractured (perfs. 1836'-1839') Injun Sand  
 Elevation: 742'

1. Notify State Inspector, Joe Taylor 304-380-7469, 24 hrs. Prior to commencing operations.
2. Check TD
3. TIH w/ tbg @ 2245'; Set 100' C1A Cement Plug @ 2245' to 2145' ( Berca 2217'- 2222' )
4. TOOH w/ tbg @ 2145'; gel hole @ 2145' to 1890'
5. TOOH w/ tbg @ 1890'; Set 150' C1A Cement Plug @ 1890' to 1740' (Injun Sand Perfs. @ 1836' - 1839' )
6. TOOH w/ tbg. Free Point 4 1/2", cut 4 1/2" @ free point, TOOH w/ 4 1/2" csg
7. Set a 100' C1A Cement Plug 50' In/Out of cut. Perf all FW, Coal, Oil and Gas shows below 4 1/2" cut. Do not omit any plugs
8. TIH w/ tbg @ 1740'; Set 100' C1A Cement Plug @ 1740' to 1640'( 4 1/2" csg cut & 6 5/8" csg set)
9. TOOH w/ tbg @ 1640'; gel hole @ 1640' to 930'
10. TOOH w/ tbg @ 930'; Set 250' C1A Cement Plug @ 930' to 680'(8 1/4" csg @ 880' & elevation @ 742' )
11. TOOH w/ tbg @ 680'; gel hole @ 680' to 300'
12. TOOH w/ tbg @ 300'; Set 300' C1A Cement Plug @ 300' to Surface ( 10"@ 250' )
13. Top off as needed
14. Set Monument to WV-DEP Specifications
15. Reclaim Location & Road to WV-DEP Specifications



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STATE OF WEST VIRGINIA  
DEPARTMENT OF MINES  
OIL AND GAS DIVISION 2

Quadrangle ARNOLDSBURG

CABLE TOOLS

Permit No. CAL-2068 154571

WELL RECORD

Oil or Gas Well OIL

Company PRIOR OIL COMPANY  
 Address 720 UNION TRUST BLDG. PARKERSBURG, W. VA.  
 Farm MARY E. RIDDLE Acres 50  
 Location (waters) ROMLES RUN  
 Well No. ONE Elev. 742'  
 District LEF County CALHOUN  
 The surface of tract is owned in fee by STARCHER  
 Address MT. ZION, W. VA.  
 Mineral rights are owned by R. A. BOARD, ET AL  
 Address GRANTSVILLE, W. VA.  
 Drilling commenced 1/20/64  
 Drilling completed 3/1/64  
 Date Shot From To  
 With  
 Open Flow /10ths Water in Inch  
 /10ths Merc. in Inch  
 Volume Cu. Ft.  
 Rock Pressure lbs. hrs.  
 Oil bbls., 1st 24 hrs.  
 WELL ACIDIZED 250 GAL.  
 WELL FRACTURED 24,000 #20/40 10,000# 10/20

Casing and Tubing	Used in Drilling	Left in Well	Packers
Size			
18			Kind of Packerc
18	<u>45'</u>	<u>45'</u>	
10	<u>250'</u>		Size of
8 1/2	<u>880'</u>		
6 1/2	<u>1730'</u>		Depth set
5 3/16			
X <u>4 1/2</u>	<u>2245'</u>	<u>2245'</u>	Perf. top <u>1836'</u>
2			Perf. bottom <u>1839'</u>
Liners Used			Perf. top
			Perf. bottom

CASING CEMENTED 4 1/2 SIZE 2245 No. Ft. 2/24/64 Date  
75 sacks cement - Halliburton  
 COAL WAS ENCOUNTERED AT FEET INCHES  
 FEET INCHES FEET INCHES  
 FEET INCHES FEET INCHES

RESULT AFTER TREATMENT 5 BBL. OIL PER DAY  
 ROCK PRESSURE AFTER TREATMENT 600#  
 Fresh Water Feet Salt Water Feet

Formation	Color	Hard or Soft	Top	Bottom	Oil, Gas or Water	Depth	Remarks
Clay			0	20			
Lime			20	34			
Slate			34	80			
Lime			80	105			
Sand			105	150			
Red rock			150	165			
Slate			165	185			
Lime			185	210			
Sand			210	220			
Slate			220	225			
Red rock			225	250			
Lime			250	280			
Red rock			280	310			
Slate			310	396			
Red rock			396	405			
Lime			405	430			
Sand			430	456			
Red rock			456	470			
Slate			470	490			
Red rock			490	515			
Lime			515	550			
Red rock			550	580			
Lime			580	590			
Slate			590	630			
Red rock			630	655			
Slate			655	690			
Red rock			690	720			
Sand			720	730			
Slate			730	785			
Lime			785	830			



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CAL-2068

CAL-2068

Formation	Color	Hard or Soft	Top 2	Bottom	Oil, Gas or Water	Depth Found	Remarks
Sand			890	920			
Slate			920	1030			
Sand			1030	1135			
Slate			1135	1165			
Sand			1165	1245			
Slate			1245	1380			
Lime			1380	1390			
Sand			1390	1405			
Slate			1405	1505			
Sand			1505	1620			
Lime			1620	1655			
Slate			1655	1660			
Sand			1660	1667			
Lime			1667	1693			
Sand			1693	1698			
Slate			1698	1780			
Lime			1780	1787			
Lime			1787	1824			
injun Sand			1824	1860			
Lime			1860	1895			
Slate			1895	1980			
Lime			1980	2035			
Slate			2035	2217			
Berea Sand			2217	2222			
Slate			2222	2250			

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 U.S. Department of  
 Environmental Protection

Date March 17, 1964

APPROVED PRIOR OIL COMPANY, Owner

By Edward P. Hubbard  
(Title)



1) Date: September 21, 2015  
2) Operator's Well Number  
154571 (Board #1)  
3) API Well No.: 47 013 - 02068  
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>Robert and Debra Starcher</u>	Name <u>None</u>
Address <u>2579 Rowles Road</u>	Address _____
<u>Mt. Zion, WV 26251</u>	_____
(b) Name _____	(b) Coal Owner(s) with Declaration
Address _____	Name <u>See Attachment</u>
_____	Address _____
(c) Name _____	Name _____
Address _____	Address _____
_____	_____
6) Inspector <u>Joe Taylor</u>	(c) Coal Lessee with Declaration
Address <u>1478 Claylick Road</u>	Name <u>None</u>
<u>Ripley, WV 25271</u>	Address _____
Telephone <u>(304) 380-7469</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>

*[Handwritten Signature]*  
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 Office of Oil and Gas

Subscribed and sworn before me this 22nd day of September, 2015  
*[Handwritten Signature]* Notary Public SEP 23 2015  
 My Commission Expires: 2/20/18

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



WW-4-A  
Revised 6/07

1) Date: September 21, 2015  
2) Operator's Well Number 154571 (Board #1)  
3) API Well No.: 47 013 - 02068  
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>Robert and Debra Starcher</u>	Name <u>None</u>
Address <u>2578 Rowles Road</u>	Address _____
<u>Mt. Zion, WV 26251</u>	_____
(b) Name _____	(b) Coal Owner(s) with Declaration
Address _____	Name <u>See Attachment</u>
_____	Address _____
_____	_____
(c) Name _____	Name _____
Address _____	Address _____
_____	_____
6) Inspector <u>Joe Taylor</u>	(c) Coal Lessee with Declaration
Address <u>1478 Claylick Road</u>	Name <u>None</u>
<u>Ripley, WV 25271</u>	Address _____
Telephone <u>(304) 380-7469</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-8.

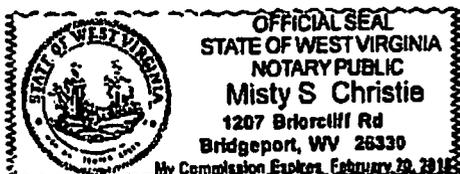
The reason you received these documents is that you have rights regarding the application which are summarized in the instructions on the reverse side. However, you are not required to take any action at all.

Take notice that under Chapter 22-6 of the West Virginia Code, the undersigned well operator proposes to file or has filed this Notice and Application and accompanying documents for a permit to plug and abandon a well with the Chief of the Office of Oil and Gas, West Virginia Division of Environmental Protection, with respect to the well at the location described on the attached Application and depicted on the attached Form WW-8. 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 22nd day of September, 2015  
Misty S. Christie Notary Public  
 My Commission Expires: 2/20/18

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



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WW2-A

**Additional Coal Owners**

GMH Gas Co., Inc. ✓  
 P. O. Box 1007  
 Spencer, WV 25276

F. B. Foster  
 c/o AEI  
 P. O. Box 218330 ✓  
 Houston, TX 77218

Mary E. Riddle  
 c/o AEI  
 P. O. Box 218330 ✓  
 Houston, TX 77218

EQT Production Company ✓ *Waiver coal*  
 EQT Plaza  
 625 Liberty Avenue  
 Suite 1700  
 Pittsburgh, PA 15222

Thelma L. Mollohan ✓  
 905 Lynn Street  
 Parkersburg, WV 26101

Doris H. Mollohan ✓  
 1131 Cook Road  
 Phil Campbell, AL 35581

Connie S. Mollohan ✓  
 10 Winnipeg Lane  
 Hedgesville, WV 25427

Steven M. Mollohan ✓  
 905 Lynn Street  
 Parkersburg, WV 26101

Vada Sue Board Heirs  
 Unknown address

Walter W. Board ✓  
 242 Hawthorne Street  
 Elyria, OH 44035

Robert Bruce Board **NOT DECLARED**  
 Unknown address

Betty Walker Heirs **NOT DECLARED**  
 Unknown address

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Larry Glenn Stutler Heirs    **NOT DECLARED**  
Unknown address

Ruby Lee Stump                **NOT DECLARED**  
Unknown address

Dennis R. Mollohan        /  
3304 Middlebranch Ave., N.E.  
Canton, OH 44705

Todd M. Mollohan         /  
1341 Carmen Ct., N.W.  
Canton, OH 44703

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Operator's Well Number: 154571 (Board #1)

**INSTRUCTIONS TO COAL OPERATOR, OWNER, OR LESSEE**

The well operator named on the attached page WW-4(B) is about to abandon the well described in the enclosed materials and will commence the work of plugging and abandoning said well on the date the inspector is notified. Which date shall not be less than five days after the date on which this notice and application so mailed is received, or in due course should be received by the Department of Environmental Protection Office of Oil & Gas

This notice and application is given to you in order that your respective representatives may be present at the plugging and filling of said well. You are further notified that whether you are represented or not the operator will proceed to plug and fill said well in the manner required by Section 24, Article 6, Chapter 22 of the Code and given in detail on the obverse side of this application

Note: If you wish this well to be plugged according to 22-6-24(d) then as per Regulation 35CSR4-13.9 you must complete and return to this office on form OB-16 "Request by Coal Operator, Owner or Lessee for plugging" prior to the issuance of this plugging permit.

**WAIVER**

The undersigned operator \_\_\_\_\_ / owner \_\_\_\_\_ / lessee \_\_\_\_\_ of the coal under this well location has examined this proposed plugging work order. The undersigned has no objection to the work proposed to be done at this location, provided the well operator has complied with all applicable requirements of the West Virginia Code and the governing regulations.

Date: 9.22.15

By: ESI Production Co.  
Its: Regional Director

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Topo Quad: Annamoriah 7.5'

Scale: 1" = 2000'

County: Calhoun

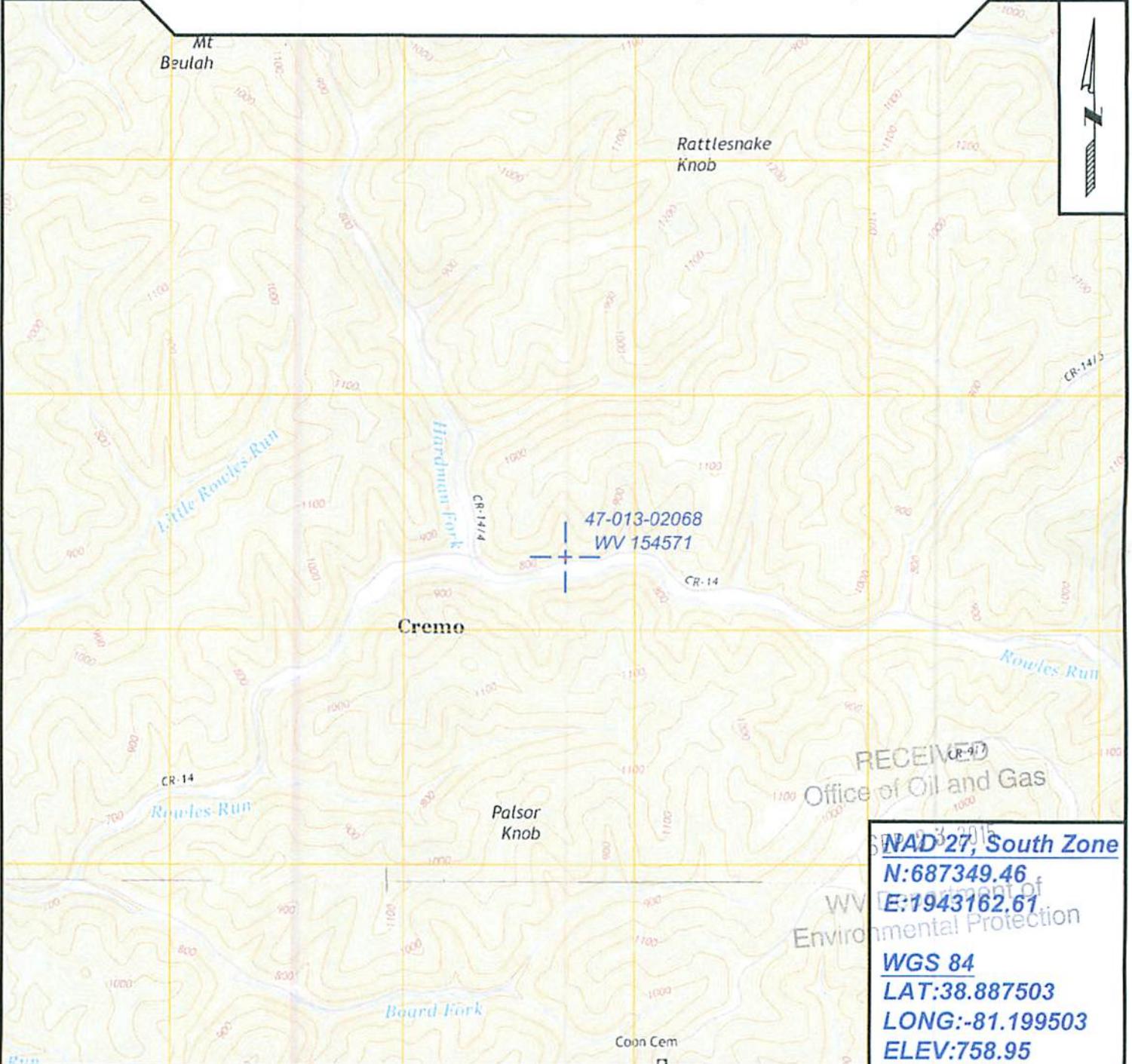
Date: August 28, 2015

District: Lee

Project No: 178-28-00-15

# 47-013-02068 WV 154571 (Board #1)

Topo

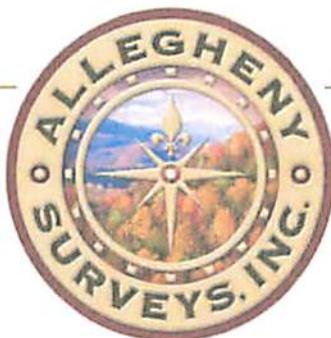


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 SWAD 27, South Zone  
 N:687349.46  
 E:1943162.61  
 WGS 84  
 LAT:38.887503  
 LONG:-81.199503  
 ELEV:758.95



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



## POTENTIAL WATER SAMPLE DATA SHEET

CLIENT: EQT PRODUCTION COMPANY  
 LEASE NAME AND WELL No. Board #1 - WV 154571 - API No. 47-013-02068

### POTENTIAL SAMPLE LOCATIONS

Site: 1 Spacing: 830 +/- Owner: Robert D. & Debra Starcher  
 Address: 2579 Rowels Road, Mt. Zion, WV 26151 Phone No. \_\_\_\_\_  
 Comments: \_\_\_\_\_

Site: 2 Spacing: 188 +/- Owner: Robert D. & Debra Starcher  
 Address: 2579 Rowels Road, Mt. Zion, WV 26151 Phone No. \_\_\_\_\_  
 Comments: \_\_\_\_\_

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Office of Oil and Gas

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WV Department 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

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

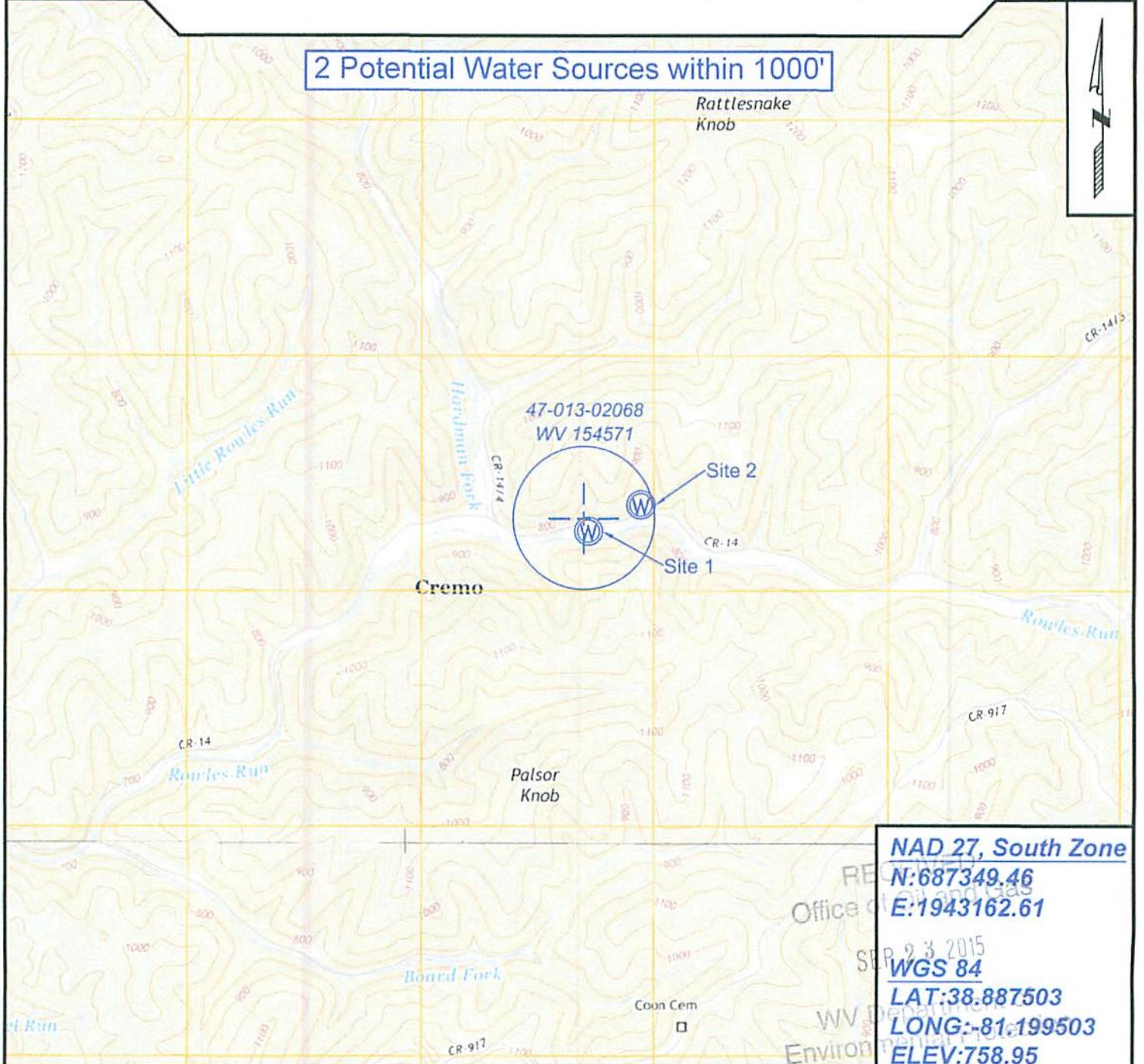
County: Calhoun Date: August 28, 2015

District: Lee Project No: 178-28-00-15

Water

### 47-013-02068 WV 154571 (Board #1)

2 Potential Water Sources within 1000'



**NAD 27, South Zone**  
**N:687349.46**  
**E:1943162.61**  
**WGS 84**  
**LAT:38.887503**  
**LONG:-81.199503**  
**ELEV:758.95**



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

1302068P

Topo Quad: Annamoriah 7.5' Scale: 1" = 2000'  
 County: Calhoun Date: August 28, 2015  
 District: Lee Project No: 178-28-00-15

**47-013-02068 WV 154571 (Board #1)**

Topo

Mt  
Bsalah

Rattlesnake  
Knob



47-013-02068  
WV 154571

Crema

RECEIVED  
Office of Oil and Gas

OCT 08 2015

WV Department of  
Environmental Protection

Palsor  
Knob

**NAD 27, South Zone**

**N:687349.46  
E:1943162.61**

**WGS 84**

**LAT:38.887503  
LONG:-81.199503  
ELEV:758.95**

*[Handwritten signature]*  
10-2-15

Coon Cem



SURVEYING AND MAPPING SERVICES PERFORMED BY:  
**ALLEGHENY SURVEYS, INC.**  
 1-800-482-8606  
 237 Birch River Road  
 Birch River, WV 26810  
 PH: (304) 649-8606  
 FAX: (304) 649-8608

PREPARED FOR:  
**EQT Production Company**  
 P.O. Box 280  
 Bridgeport, WV 26330

WW-7  
8-30-06



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

API: 47-013-02068 WELL NO.: WV 154571 (Board #1)  
FARM NAME: Bobby J. Starcher  
RESPONSIBLE PARTY NAME: EOT Production Company  
COUNTY: Calhoun DISTRICT: Lee  
QUADRANGLE: Annamoriah 7.5'  
SURFACE OWNER: Robert D. & Debra Starcher  
ROYALTY OWNER: Betty Walker Heirs, et al.  
UTM GPS NORTHING: 4304312  
UTM GPS EASTING: 482697 GPS ELEVATION: 231 m (759 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:

- Datum: NAD 1983, Zone: 17 South, Coordinate Units: meters, Altitude: height above mean sea level (MSL) – meters.
- Accuracy to Datum – 3.05 meters
- 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 C. Beorn PS # 2180  
Signature Title

Office of Oil and Gas  
SEP 23 2006  
8/31/05  
Date  
Env. Enforcement