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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

April 15, 2014

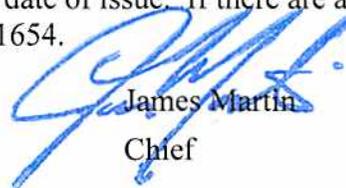
**WELL WORK PLUGGING PERMIT**

**Plugging**

This permit, API Well Number: 47-4501193, 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: 1-S-135571  
Farm Name: LAWSON HEIRS INCORPORATEI  
**API Well Number: 47-4501193**  
**Permit Type: Plugging**  
Date Issued: 04/15/2014

**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.

CK17281  
10000

Date: April 7, 2014  
Operator's Well \_\_\_\_\_  
Well No. 135571 Lawson Heirs #1  
API Well No.: 47 045 - 01193

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: 710' Watershed: Guyandotte River  
Location: Logan County: Logan Quadrangle: Logan 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 Ralph Triplett  
Name: 5539 McClellan Hwy  
Address: Branchland, WV 25506

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.**

RECEIVED  
Office of Oil and Gas

APR 08 2014

WV Department of  
Environmental Protection

OK gullm

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 \_\_\_\_\_ Date \_\_\_\_\_

4501193A

PLUGGING PROGNOSIS

**Lawson Heirs #1 (135571)**

Logan Co., W.V.  
API # 47-045-01193

BY: Craig Duckworth  
DATE: 3/4/14

**CURRENT STATUS:**

11 3/4" @ 398' (cts)  
8 5/8" @ 1924' (cts)  
5 1/2" @ 4659' (570' cu.ft.)  
Elevation @ 700'

**TD 4698'**

**Fresh Water @ 42' & 64'**

**Oil Shows @ None Reported      Gas Shows @ None Reported**

**Salt Sand Top @ 1068'      Salt Water @ 1068'**

**Coal @ 54'-55'; 71'-75'; 91'-93'**

**Stimulation @ Rhinestreet 4601'- 4461' ; Lower Huron 4101'-3767' ; Upper Devonian 3272'-2879' ; Berea 2720'-2730' ; Upper Weir 2232'-2238'**

1. Notify inspector, **Ralph Triplett (304) 389-0350**, and 24 hrs. Prior to commencing operations.
2. TIH w/ tubing to 4461'; Set 200' C1A Cement Plug @ 4461' to 4261' (**Perfs @ 4601'-4461'**).
3. TOO H w/ tubing @ 4261', Gel Hole @ 4261' to 3767'.
4. TOO H w/ tubing @ 3767'; Set 200' C1A Cement Plug @ 3767' to 3567' (**Perfs @ 4101'- 3767'**).
5. TOO H w/ tubing @ 3567', Gel Hole @ 3567' to 2879'.
6. TOO H w/ tubing @ 2879'; Set 259' C1A Cement Plug @ 2879' to 2620' (**Perfs @ 3272'- 2879' & 2720'-2730'**).
7. TOO H w/ tubing @ 2620', Gel Hole @ 2620' to 2232'.
8. TOO H w/ tubing @ 2232'; Set 200' C1A Cement Plug @ 2232' to 2032' (**Perfs @ 2232'- 2238'**).
9. TOO H w/ tubing @ 2032', Gel Hole @ 2032' to 1950'.
10. TOO H w/ tubing, Free Point 5 1/2" csg, cut 5 1/2" csg @ Free Point, TOO H w/ 5 1/2" csg
11. TIH w/ tubing @ 1950'; Set 200' C1A Cement Plug @ 1950' to 1750' (**5 1/2" cut & 8 5/8" @ 1924'**).
12. Set a 100' C1A Cement Plug 50' In/Out of cut. Perf all Salt Sand top, FW, Gas, Oil and Coal shows below the 5 1/2" cut. Do not omit any plugs shown below.
13. TOO H w/ tubing @ 1750', Gel Hole @ 1750' to 1068'.
14. TOO H w/ tubing @ 1068'; Set 100' C1A Cement Plug @ 1068' to 968' (**Salt Sand @ 1068' & SW @ 1068'**).
15. TOO H w/ tubing @ 968', Gel Hole @ 968' to 448'.
16. TOO H w/ tubing @ 448'; Set 100' C1A Cement Plug @ 448' to 348' (**11 3/4" @ 398'**).
17. TOO H w/ tubing @ 348'; Gel Hole @ 348' to 300'.
18. TOO H w/ tubing @ 200'; Set 300' C1A cement plug @ 300' to Surface'. (**Coal Shows @ 93'; 91' 75'; 71' 55'; 54' & FW @ 64' & 42'**.)
19. Top off as needed
20. Set monument to WV DEP specs
21. Reclaim Location to WV DEP Specifications.

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TAG CEMENT TOPS

WR-35

22-Sep-92  
API # 47-045-01193

State of West Virginia  
Division of Environmental Protection  
Section of Oil and Gas

Well Operator's Report of Well Work

Farm Name: GADDY ENGINEERING CO.

Operator Well No.: 1-S-135571

Location: Elevation: 700.70

Quadrangle: LOGAN

District: LOGAN

County: LOGAN

Latitude: 4450 Feet South of 37 Deg. 50 Min. 0 Sec.

Longitude: 2580 Feet West of 81 Deg. 57 Min. 30 Sec.

Company: ASHLAND EXPLORATION, INC.  
P.O. BOX 391, AT-6  
ASHLAND, KY 41114-0391

Agent: B. E. Widener

Inspector: OFIE HELMICK

Permit Issued: 09-24-92

Well Work Commenced: 03-25-93

Well Work Completed: 05-11-93

Verbal Plugging

Permission granted on:

Rotary  Cable \_\_\_\_\_ Rig \_\_\_\_\_

Total Depth (feet) 4698

Fresh water depths (ft) 1/2" @ 42'

1-1/2" @ 64'

Salt water depths (ft) 1/2" stream  
1068'

Is coal being mined in area (Y/N)? N

Coal Depths (ft): 54-55, 71-75, 91-93

Casing & Tubing Size	Used in Drilling	Left in Well	Cement Fill Up Cu. Ft.
16"	41'	41'	11.8
11 3/4"	398'	398'	260.8
8 5/8"	1924'	1924'	614
5 1/2"	4659'	4659'	570
1.9" @ 4534' KB w/R-4 @ 2808'			
1.9" @ 2737' KB			

OPEN FLOW DATA

Producing formation Devonian Shale Pay zone depth (ft) 2879-4601  
 Gas: Initial open flow 0 MCF/d Oil: Initial open flow --- Bbl/d  
 Final open flow 637 MCF/d Final open flow --- Bbl/d  
 Time of open flow between initial and final tests 3 Hours  
 Static Rock Pressure 670# psig (surface pressure) after 72 Hours

Second producing formation Berea/U. Weir Pay zone depth (ft) 2720-2730  
 Gas: Initial open flow 0 MCF/d Oil: Initial open flow --- Bbl/d  
 Final open flow 552 MCF/d Final open flow --- Bbl/d  
 Time of open flow between initial and final tests 3 Hours  
 Static Rock Pressure 620# psig (surface pressure) after 72 Hours

NOTE: ON BACK OF THIS FORM PUT THE FOLLOWING: 1). DETAILS OF PERFORATED INTERVALS, FRACTURING OR STIMULATING, PHYSICAL CHANGE, ETC. 2). THE WELL LOG WHICH IS A SYSTEMATIC DETAILED GEOLOGICAL RECORD OF ALL FORMATIONS, INCLUDING COAL ENCOUNTERED BY THE WELLBORE.

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Reviewed TMG

For: Ashland Exploration, Inc.

Recorded \_\_\_\_\_

By: James L. Stephens James L. Stephens, Eng. Tech.  
Date: 6-2-93

WV Department of Environmental Protection

LOG-1173

<u>Formation or Rock Type</u>	<u>Top</u>	<u>Base</u>
Sand and Shale (base Lee Sand)	0	1363
Pennington	1363	1890
Maxton	1704	1752
Little Lime	1890	1952
Big Lime	1952	2163
Borden	2163	2687
U. Weir	2230	2270
Sunbury Shale	2687	2714
Berea	2714	2733
Devonian Shale	2733	4671
Onondaga lime	4671	T.D.

Drillers TD 4698

Loggers TD 4681

113/4 Did not cmt to surface on primary job. Top off on 8 5/8 job.  
8 5/8 cmt'd to surface on primary job.

Perforate Rhinestreet 4601', 4588, 4579, 4575, 4574, 4568, 4561, 4546, 4542, 4536, 4520, 4517, 4510, 4495, 4487, 4476, 4461, pumped 200 gals 8% HCl-Fe acid. N<sub>2</sub> frac Rhinestreet Shale w/802,000 scf N<sub>2</sub> @ 94,669 scf/min. BD - 4204, MTP - 4276, ATP - 4199, ISIP - 3030.

Perf L. Huron 4101, 4092, 4065, 4062, 4056, 4052, 4035, 4027, 4013, 4009, 3985, 3982, 3980, 3969, 3929, 3873, 3870, 3828, 3813, 3803, 3801, 3798, 3767, pump 1 bbl wtr & 350 gal 7 1/2% HCl-Fe acid. N<sub>2</sub> frac L. Huron w/828,000 scf N<sub>2</sub> @ 105,305 scf/min. BD - 3467, MTP - 3467, ATP - 3024, ISIP - 1617.

Perf U. Devonian Shale 3272, 3263, 3252, 3249, 3219, 3211, 3202, 3194, 3184, 3173, 3163, 3159, 3122, 3051, 2980, 2930, 2916, 2896, 2892, 2879, pump 500 gal 7 1/2% HCl-Fe acid. N<sub>2</sub> frac U. Dev. Shale w/804,000 scf N<sub>2</sub> @ 105,558 scf/Min. BD - 3126, MTP - 3299, ATP - 3217, ISIP - 1604.

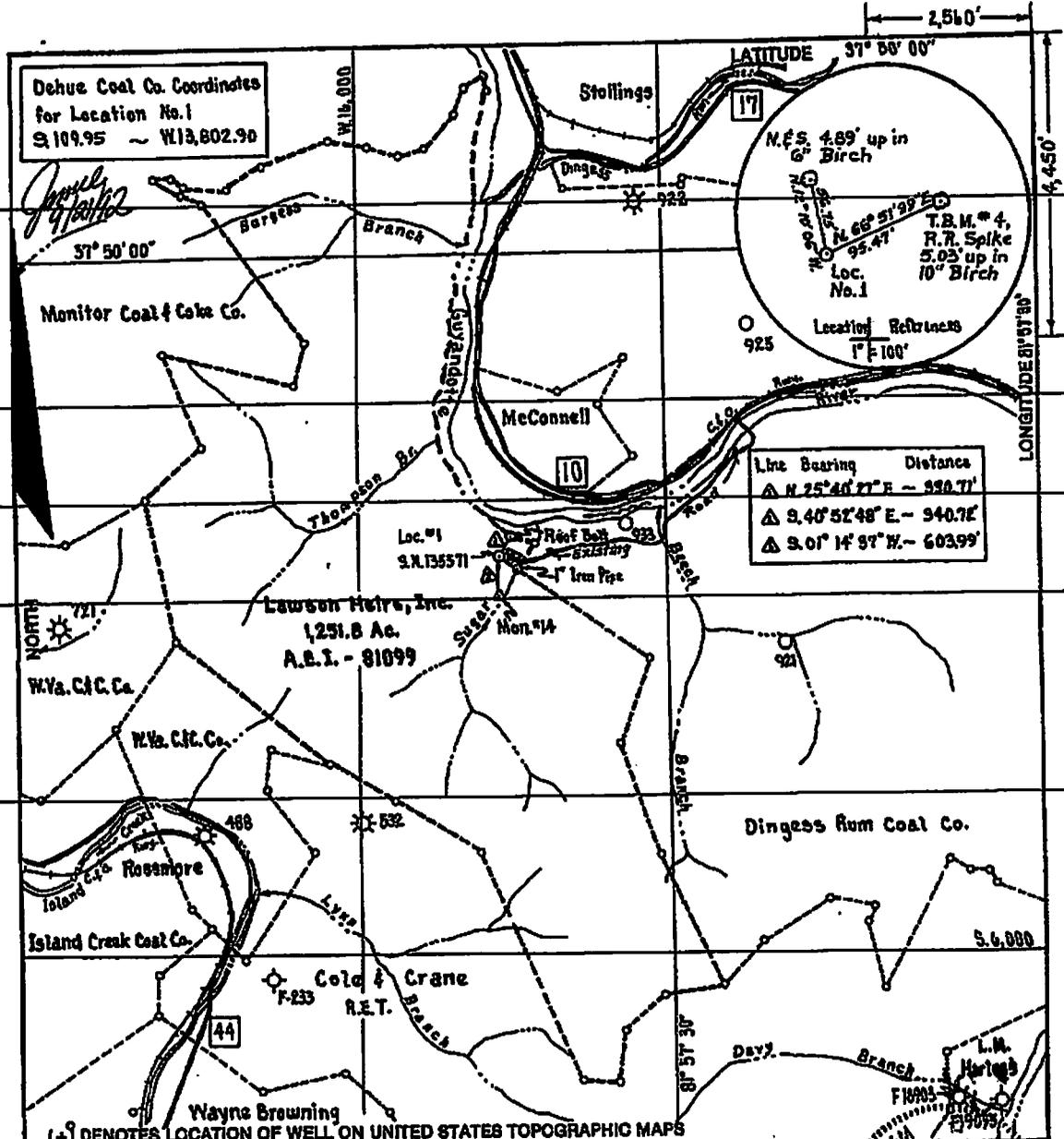
Perf Berea 2 spf, 2720-2730 (22 total shots) pump 500 gal 15% HCl-Fe acid & ramp frac Berea 4-20 ppg using 45,165# 20/40 sand 168,200 scf N<sub>2</sub> @ 6300 scf/min, 75Q foam @ 20 BPM rate. BD 1342, MTP 1367, ATP - 1100, ISIP - 1130.

Perf U. Weir 14H/2232-2238 75Q foam frac the U. Weir using 500 gal 15% HCl, 36,400# 20/40 sand & 190,000 scf N<sub>2</sub> @ 4200 scf/m. BD @ 1367#, ATP - 1300# @ 10 E/M foam, MTP - 1394#, ISIP - 1394#, 15 min, 1304# TF 119 Bbl.

14241

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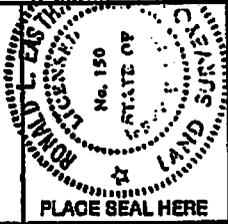
4501193P



(+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS

FILE NO. \_\_\_\_\_  
 DRAWING NO. \_\_\_\_\_  
 SCALE 1" = 2,000'  
 MINIMUM DEGREE OF ACCURACY 1:26.186  
 PROVEN SOURCE OF ELEVATION U.S.C. 66.5 B.M. N45X  
 Elev. = 675.974

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 ENERGY.  
 (SIGNED) Ronald L. South  
 R.P.E. \_\_\_\_\_ I.L.S. 180 \_\_\_\_\_



STATE OF WEST VIRGINIA  
 DEPARTMENT OF ENERGY  
 OIL AND GAS DIVISION

DATE July 17, 1992  
 OPERATOR'S WELL NO. Lawson Heirs No. 1  
 API WELL NO. S.N. 135571

47 - 045 - 1193  
 STATE COUNTY PERMIT

WELL TYPE: OIL GAS X LIQUID INJECTION WASTE DISPOSAL  
 (IF "GAS,") PRODUCTION X STORAGE DEEP SHALLOW X

LOCATION: ELEVATION 700.70 WATERSHED Sugar Branch of Guyandotte River  
 DISTRICT Logan COUNTY Logan  
 QUADRANGLE Logan

SURFACE OWNER Lawson Heirs, Inc. ACREAGE 1251.6  
 OIL & GAS ROYALTY OWNER Lawson Heirs, Inc. LEASE ACREAGE 1251.6  
 LEASE NO. 81099

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

PLUG AND ABANDON CLEAN OUT AND REPLUG  
 TARGET FORMATION Devonian Shale ESTIMATED DEPTH 4620.18

WELL OPERATOR Ashland Exploration Inc. DESIGNATED AGENT Bobby E. Widener  
 ADDRESS P.O. Box 391 ADDRESS P.O. Box 379  
Ashland, Ky. 41114 Brenton, W.V. 24818

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 WV Department of Environmental Protection

Logan 4

MT. BALL 14872 FORM WV-8

WW-4-A  
Revised 6/07

1) Date: April 7, 2014  
2) Operator's Well Number  
135571 Lawson Heirs #1  
3) API Well No.: 47 045 - 01193  
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 Lawson Heirs Incorporated  
Address P.O. Box 648  
Wytheville, VA 24382-0648  
  
(b) Name \_\_\_\_\_  
Address \_\_\_\_\_  
  
(c) Name \_\_\_\_\_  
Address \_\_\_\_\_  
  
6) Inspector Ralph Triplett  
Address 5539 McClellan Hwy  
Branchland, WV 25506  
Telephone 304-389-0350

5) (a) Coal Operator:  
Name None  
Address \_\_\_\_\_  
  
(b) Coal Owner(s) with Declaration  
Name Lawson Heirs Incorporated  
P.O. Box 648  
Address Wytheville, VA 24382-0648  
  
Name \_\_\_\_\_  
Address \_\_\_\_\_  
  
(c) Coal Lessee with Declaration  
Name None  
Address \_\_\_\_\_

**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.

RECEIVED



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

Office of Oil and Gas  
APR 09 2014  
WV Department of Environmental Protection

Subscribed and sworn before me this \_\_\_\_\_ day of \_\_\_\_\_, 2014  
My Commission Expires: \_\_\_\_\_

7 day of April, 2014  
8-24-22

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.

4501193P

**EQT**  
C/O Vicki Roark  
P.O. Box 280  
Bridgeport, WV 26330

9

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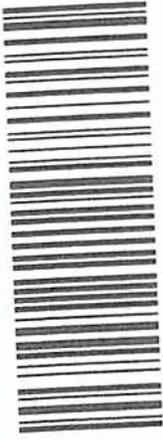
✓  
Ralph Triplett  
5539 McClellan Hwy  
Branchland, WV 25506  
Plugging 135571

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Street, Apt, or PO Box  
City, State

**Lawson Heirs Incorporated**  
P.O. Box 648  
Wytheville, VA 24382-0648  
Plugging 135571

PS Form 3811, August 2009 See Reverse for Instructions

Lawson Heirs Incorporated  
P.O. Box 648  
Wytheville, VA 24382-0648  
Plugging 135571

**EQT**  
C/O Vicki Roark  
P.O. Box 280  
Bridgeport, WV 26330

**SENDER, COMPLETE THIS SECTION**

1. Article Addressed to:  
 Complete items 1, 2, and 3. Also complete item 4 if Restricted Delivery is desired.  
 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.

**Lawson Heirs Incorporated**  
P.O. Box 648  
Wytheville, VA 24382-0648  
Plugging 135571

APR 08 2014  
Office of Oil and Gas  
RECEIVED  
2. Article Number (Transfer from service lab)  
7013 2630 0001 4239 3338

PS Form 3811, July 2013 Domestic Return Receipt

**COMPLETE THIS SECTION ON DELIVERY**

A. Signature  Agent  
 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<sup>®</sup>  
 Registered Mail<sup>®</sup>  
 Priority Mail Express<sup>™</sup>  
 Return Receipt for Merchandise  
 Insured Mail<sup>®</sup>  
 Collect on Delivery

4. Restricted Delivery<sup>™</sup>  Yes  No

# SURFACE OWNER WAIVER

Operator's Well Number: 135571 Lawson Heirs #1

## INSTRUCTIONS TO SURFACE OWNERS NAMED ON PAGE WW 4-A

The well operator named on page WW4A is applying for a permit from the State to plug and abandon a well. (Note: If the surface tract is owned by more than three persons, then these materials were served on you because your name appeared on the Sheriff's tax ticket on the land or because you actually occupy the surface tract. In either case, you may be the only owner who will actually receive these materials.) See Chapter 22 of the West Virginia Code. Well work permits are valid for 24 months. If you do not own any interest in the surface tract, please forward these materials to the true owner immediately if you know who it is. Also, please notify the well operator and the Office of Oil and Gas.

**NOTE: YOU ARE NOT REQUIRED TO FILE ANY COMMENT.**

## WHERE TO FILE COMMENTS AND OBTAIN ADDITIONAL INFORMATION:

Chief, Office of Oil and Gas  
Division of Environmental Protection  
601 57th Street, SE  
Charleston, WV 25304  
(304) 926-0450

### Time Limits and methods for filing comments.

The law requires these materials to be served on or before the date the operator files for this Application. You have FIVE (5) DAYS after the filing date to file your comments. Comments must be filed in person or received in the mail by the Chief's office by the time stated above. You may call the Chief's office to be sure of the date. Check with your postmaster to ensure adequate delivery time or to arrange special expedited handling. If you have been contacted by the well operator and you have signed a "voluntary statement of no objection" to the planned work described in these materials, then the permit may be issued at any time.

The law requires these materials to be served on or before FIVE (5) DAYS after the filing date to file your

### Comments must be in writing.

Your comments must include your name, address and telephone number, the well operator's name and well number and the approximate location of the proposed well site including district and county from the application. You may add other documents, such as sketches, maps or photographs to support your comments.

The chief has the power to deny or condition a well work permit based on comments on the following grounds:

- 1) The proposed well work will constitute a hazard to the safety of persons.
- 2) The soil erosion and sediment control plan is not adequate or effective;
- 3) Damage would occur to publicly owned lands or resources;
- 4) The proposed well work fails to protect fresh water sources or supplies;
- 5) The applicant has committed a substantial violation of a previous permit or a substantial violation of one or more of the rules promulgated under Chapter 22, and has failed to abate or seek review of the violation..."

If you want a copy of the permit as it is issued or a copy of the order denying the permit, you should request a copy from the Chief.

### List of Water Testing Laboratories.

The office maintains a list of water testing laboratories which you can hire to test your water to establish water quality prior to and after drilling. Contact the Chief to obtain a copy.

## VOLUNTARY STATEMENT OF NO OBJECTION

I hereby state that I have read the instructions to surface owners and that I have received copies of a Notice and Application For a Permit To Plug And Abandon on Forms WW-4A and WW-4B, and a survey plat.

I further state that I have no objection to the planned work described in these materials, and I have no objection to a permit being issued on those materials.

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APR 08 2014

FOR EXECUTION BY A NATURAL PERSON

FOR EXECUTION BY A CORPORATION, ETC.

\_\_\_\_\_  
Signature

\_\_\_\_\_  
Date

\_\_\_\_\_  
Name  
By  
\_\_\_\_\_  
Its

WV Department of  
Environmental Protection

\_\_\_\_\_  
Signature

\_\_\_\_\_  
Date

Operator's Well Number: 135571 Lawson Heirs #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 not 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: \_\_\_\_\_

By: \_\_\_\_\_

Its: \_\_\_\_\_

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Environmental Protection

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: Guyandotte River Quadrangle: Logan 7.5'  
Elevation: 710' County: Logan District: Logan

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 MIL.

Proposed Disposal Method for Treated Pit Wastes:  
X 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.

Company Official Signature *Victoria Roark*

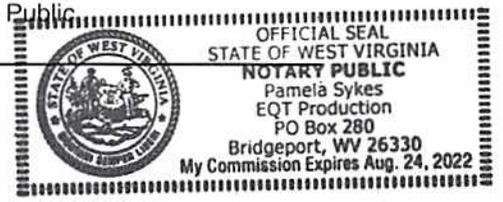
Company Official (Typed or Printed) Victoria Roark

Company Official Title Permitting Supervisor-WV

Subscribed and sworn before me this 7 day of April, 2014

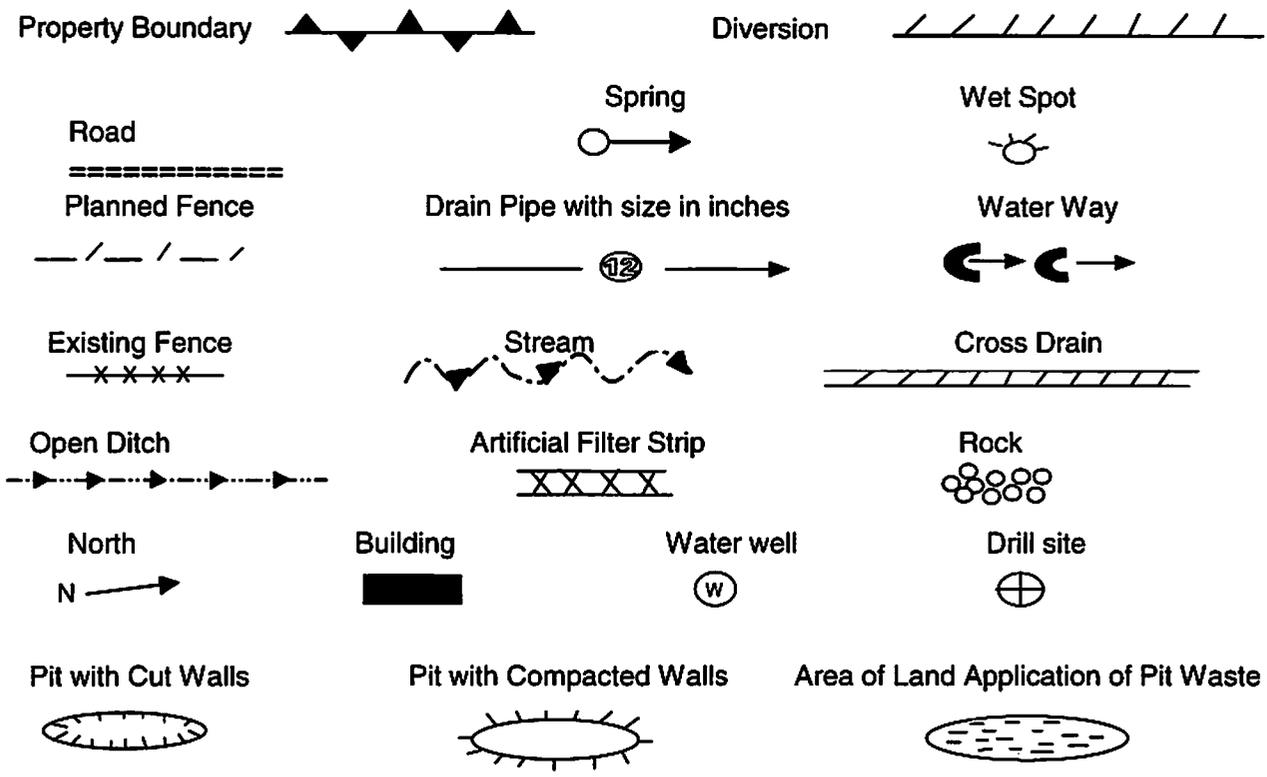
*Pamela Sykes*  
My Commission Expires 8-24-22

Notary Public



**OPERATOR'S WELL NO.:**  
**135571 Lawson Heirs #1**

**LEGEND**



Proposed Revegetation Treatment: Acres Disturbed: 1± Prevegetation pH 5.8

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
KY-31	40	Orchard Grass	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: \_\_\_\_\_

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

Title: \_\_\_\_\_ Date: \_\_\_\_\_  
Field Reviewed?        Yes        No

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WV Department of  
Environmental Protection

Topo Quad: Logan 7.5'

Scale: 1" = 2000'

County: Logan

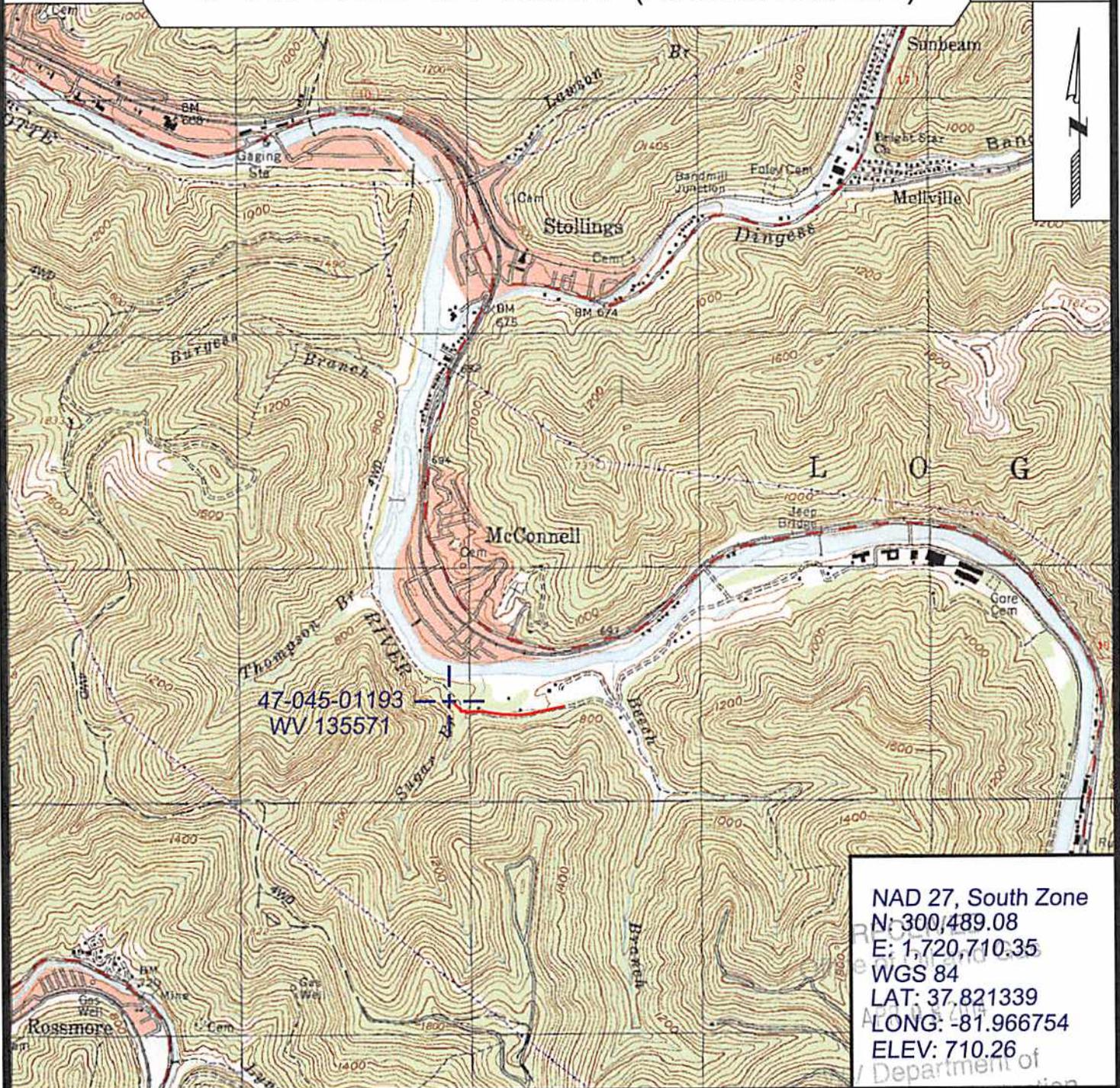
Date: March 25, 2014

District: Logan

Project No: 21-21-00-08

47-045-01193 WV 135571 (Lawson Heirs #1)

Topo



47-045-01193  
WV 135571

NAD 27, South Zone  
 N: 300,489.08  
 E: 1,720,710.35  
 WGS 84  
 LAT: 37.821339  
 LONG: -81.966754  
 ELEV: 710.26



SURVEYING AND MAPPING SERVICES PERFORMED BY:  
**ALLEGHENY SURVEYS, INC.**

1-800-482-8606  
 P.O. BOX 438  
 BIRCH RIVER, WV 26610  
 PH: (304) 649-8606  
 FAX: (304) 649-8608

PREPARED FOR: Environmental Protection

**EQT Production Company**

P.O. Box 280  
 Bridgeport, WV 26330

4501193P

WW-7  
8-30-06



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

API: 47-045-01193 WELL NO.: WV 135571 (Lawson Heirs #1)

FARM NAME: Lawson Heirs

RESPONSIBLE PARTY NAME: EQT Production Company

COUNTY: Logan DISTRICT: Logan

QUADRANGLE: Logan 7.5'

SURFACE OWNER: Lawson Heirs Incorporated

ROYALTY OWNER: Dingess Rum Properties, Inc., et al.

UTM GPS NORTHING: 4186433

UTM GPS EASTING: 414915 GPS ELEVATION: 216 m (710 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  
4/2/14  
Date

PS# 2180  
Title



## POTENTIAL WATER SAMPLE DATA SHEET

CLIENT: EQT PRODUCTION COMPANY  
 LEASE NAME AND WELL No. Lawson Heirs #1 WV 135571 (47-045-01193)

The initial mapping review of the area surrounding the proposed well site revealed the below listed surface owner(s) that were potentially utilizing groundwater (potable) for Human Consumption or other purposes within 1000' of the existing well site. The following landowners will be notified of the opportunity to request a water sample.

\*Please note that the following information is subject to change upon field inspection.

### POTENTIAL SAMPLE LOCATIONS

Site: 1 Spacing: 400' +/- Owner: Lawson Heirs, Inc.  
 Address: PO Box 648, Wytheville, VA 24382-0848 Phone No. \_\_\_\_\_  
 Comments:

Site: 2 Spacing: 840' +/- Owner: Lawson Heirs, Inc.  
 Address: PO Box 648, Wytheville, VA 24382-0848 Phone No. \_\_\_\_\_  
 Comments:

Site: 3 Spacing: 1000' +/- Owner: Lawson Heirs, Inc.  
 Address: PO Box 648, Wytheville, VA 24382-0848 Phone No. \_\_\_\_\_  
 Comments:

**BIRCH RIVER OFFICE**  
 P.O. Box 438 • 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

**CALDWELL OFFICE**  
 212 Cumberland Street  
 Caldwell, OH 43724  
 phone: 740-305-5007  
 fax: 740-305-5126

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

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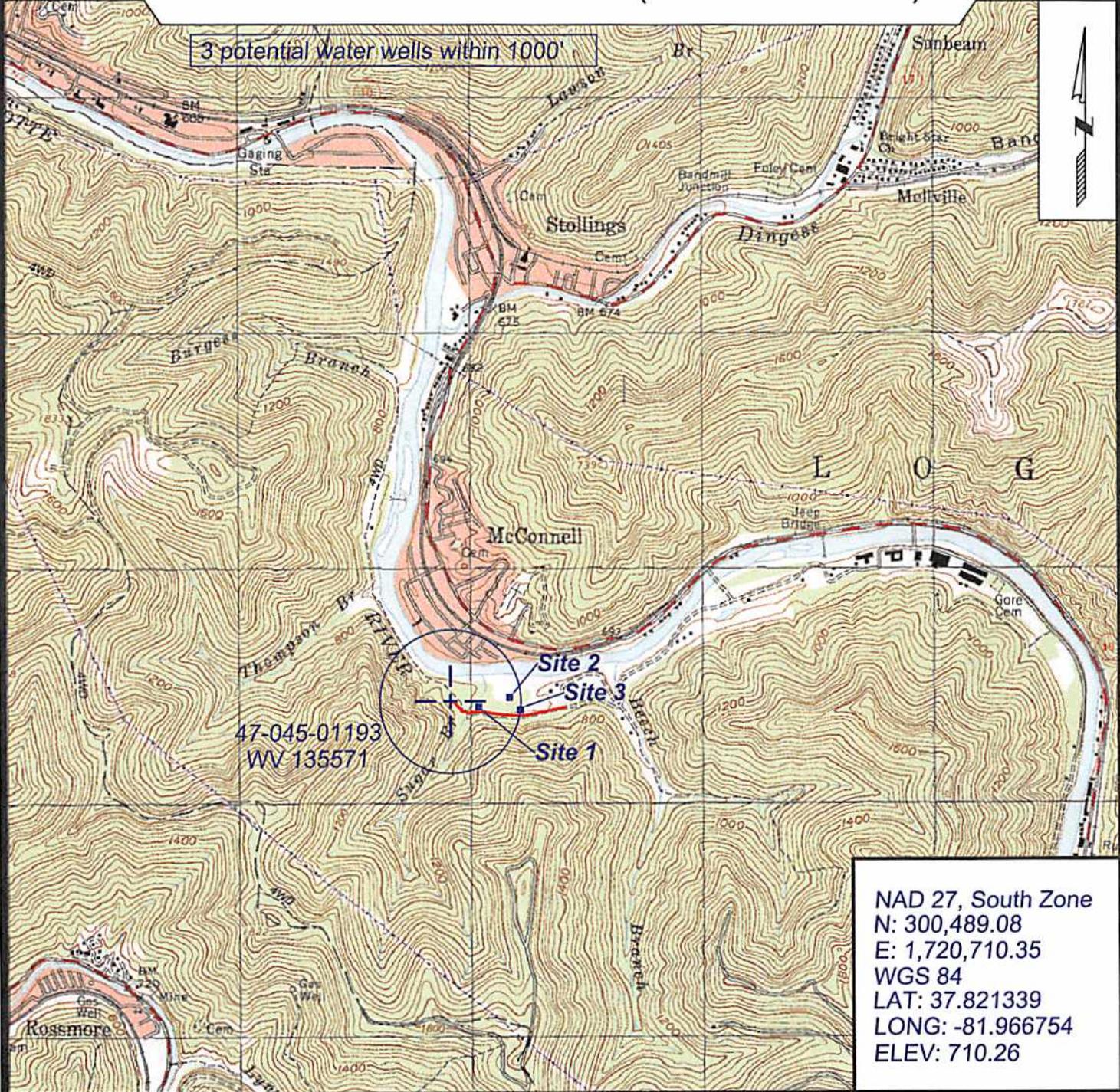
District: Logan

Project No: 21-21-00-08

Water

### 47-045-01193 WV 135571 (Lawson Heirs #1)

3 potential water wells within 1000'



47-045-01193  
WV 135571

Site 2  
Site 3  
Site 1

NAD 27, South Zone  
 N: 300,489.08  
 E: 1,720,710.35  
 WGS 84  
 LAT: 37.821339  
 LONG: -81.966754  
 ELEV: 710.26

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