



west virginia department of environmental protection

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

Austin Caperton, Cabinet Secretary
www.dep.wv.gov

Tuesday, June 18, 2019

WELL WORK PLUGGING PERMIT
Vertical Plugging

EQT PRODUCTION COMPANY
625 LIBERTY AVE., SUITE 1700
PITTSBURGH, PA 15222

Re: Permit approval for LEWIS GARRISON 1879
47-085-06525-00-00


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

Upon completion of the plugging well work, the above named operator will reclaim the site according to the provisions of WV Code 22-6-30. Please be advised that form WR-38, Affidavit of Plugging and Filling Well, is to be submitted to this office within 90 days of completion of permitted well work, as should form WR-34 Discharge Monitoring Report within 30 days of discharge of pits, if applicable. Failure to abide by all statutory and regulatory provisions governing all duties and operations hereunder may result in suspension or revocation of this permit and, in addition, may result in civil and/or criminal penalties being imposed upon the operators.

Per 35 CSR 4-5.2.g this permit will expire in two (2) years from the issue date unless permitted well work is commenced. If there are any questions, please feel free to contact me at (304) 926- 0450.

James A. Martin
Chief

A blue ink signature of James A. Martin, Chief, is written over the printed name and title.

Operator's Well Number: LEWIS GARRISON 1879
Farm Name: GEORGE WILLIAM ADAMS 
U.S. WELL NUMBER: 47-085-06525-00-00
Vertical Plugging
Date Issued: 6/18/2019

T

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

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

WW-4B
Rev. 2/01

- 1) Date December 11, 2018
 2) Operator's
 Well No. 657391 Lewis Garrison #1897
 3) API Well No. 47-085-06525

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

APPLICATION FOR A PERMIT TO PLUG AND ABANDON

- 4) Well Type: Oil ___ / Gas X / Liquid injection ___ / Waste disposal ___ /
 (If "Gas, Production ___ or Underground storage ___) Deep ___ / Shallow X
- 5) Location: Elevation 972 Watershed Right Fork Bone Creek
 District Union County Ritchie Quadrangle Auburn
- 6) Well Operator EQT Production Company 7) Designated Agent Jason Ranson
 Address 2400 Ansys Drive- Suite 200 Address 120 Professional Place
Canonsburg PA 15317 Bridgeport WV 26330
- 8) Oil and Gas Inspector to be notified 9) Plugging Contractor
 Name Michael Goff Name HydroCarbon Well Service
 Address 1723 Auburn Road Address PO Box 995
Pullman WV 26421 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
 JAN 02 2019
 WV Department of
 Environmental Protection

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

Work order approved by inspector

Michael Goff

Date

6-14-19

PLUGGING PROGNOSIS

API# 47-085-06525
 District, Union
 Ritchie County, WV

BY: R Green
 DATE: 11-26-18

CURRENT STATUS:
TD @ 5181'
Elevation @ 980'

11 3/4" casing @ 216' (CTS)
 8 5/8" casing @ 1078' (CTS)
 4 1/2" casing @ 3335' (TOC @ 2035')

Perforations @
3109' to 3225' (12 holes)
2056' to 2459' (12 holes)

Fresh Water @ 20'
 Saltwater @ 280'
 Gas Show @ None reported
 Oil shows @ None reported
 Coal @ None reported

1. Notify inspector, Michael Goff @ 304-549-9823, 24 hours prior to commencing operations
2. TIH and check TD @ or below 3250'.
3. TIH thg to 3250' spot 40 bbl. of 6% gelled water followed by a 250' CIA cement plug, 3250' to 3000'. WOC 8 hrs., tag TOC add additional CIA cement if necessary.
4. TOOH to 2500' set a 500' CIA cement plug 2500' to 2000'. WOC 8 hrs. Tag TOC, add additional CIA cement if necessary.
5. Free point 4 1/2" casing, cut casing @ free point. TOOH 4 1/2" casing.
6. TIH and set a 100' CIA cement plug 50' in/out of casing cut. Perforate all freshwater, saltwater, coal, oil and gas shows below cut. Do not omit any plugs.
7. TOOH to 1130' set a 200' CIA cement plug 1130' to 930'. (Elevation & 8 5/8" casing seat)
8. TOOH to 700', set a 200' CIA cement plug 700' to 500'. (Safety plug).
9. TOOH to 300', set a 300' CIA cement plug 300' to surface. (11 3/4" casing seat, saltwater @ 280' & freshwater @ 20')
10. Erect monument with API#, date plugged, company name.
11. Reclaim location and road to WV-DEP specifications.

RECEIVED
 Office of Oil and Gas

JAN 02 2019

WV Department of
 Environmental Protection

MAG
 6-14-19

47-085-06525P

RECEIVED
JAN 10 - 1984



IV-35
(Rev 8-81)

OIL & GAS DIVISION
DEPT. OF MINES

State of West Virginia
Department of Mines
Oil and Gas Division

Date January 3, 1984
Operator's
Well No. 4-1879
Farm Lewis Garrison
API No. 47-085-6525

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

WELL TYPE: Oil ___ / Gas X / Liquid Injection ___ / Waste Disposal ___
(If "Gas," Production X / Underground Storage ___ / Deep ___ / Shallow X /)
LOCATION: Elevation: 980' Watershed Right Fork of Bone Creek
District: Union County Ritchie Quadrangle Auburn

COMPANY Carnegie Natural Gas Company
ADDRESS 800 Regis Ave., Pittsburgh, PA 15216
DESIGNATED AGENT J. C. Stephenson
ADDRESS P.O. Box 387, Mannington, WV 26582
SURFACE OWNER Virginia Adams
ADDRESS 466 Broad St., Weston, WV 26452
MINERAL RIGHTS OWNER Virginia Adams
ADDRESS 466 Broad St., Weston, WV 26452
OIL AND GAS INSPECTOR FOR THIS WORK Sam Hersman ADDRESS Smithville, WV
PERMIT ISSUED June 8, 1983
DRILLING COMMENCED October 4, 1983
DRILLING COMPLETED October 11, 1983
IF APPLICABLE: PLUGGING OF DRY HOLE ON CONTINUOUS PROGRESSION FROM DRILLING OR REWORKING. VERBAL PERMISSION OBTAINED ON _____

Casing & Tubing	Used in Drilling	Left in Well	Cement fill up Cu. ft.
Size 20-16 Cond. 11 3/4" X 20-16"	216'	216'	216'
9 5/8			
8 5/8	1078'	1078'	1078'
7			
5 1/2			
4 1/2		3335'	1300'
3			
2			
Liners used			

GEOLOGICAL TARGET FORMATION Alexander Depth 5200 feet
Depth of completed well 5181 feet Rotary X / Cable Tools _____
Water strata depth: Fresh 20 feet; Salt 280 feet
Coal seam depths: None Is coal being mined in the area? No

OPEN FLOW DATA
Producing formation Warren, Gordon, Weir Pay zone depth See Fracture Details feet
Gas: Initial open flow 5.7 Mcf/d Oil: Initial open flow _____ Ebl/d
Final open flow 298 Mcf/d Final open flow _____ Ebl/d
Time of open flow between initial and final tests 48 hours
Static rock pressure 750 psig (surface measurement) after 72 hours shut in
(If applicable due to multiple completion--)
Second producing formation _____ Pay zone depth _____ feet
Gas: Initial open flow _____ Mcf/d Oil: Initial open flow _____ Ebl/d
Final open flow _____ Mcf/d Oil: Final open flow _____ Ebl/d
Time of open flow between initial and final tests _____ hours
Static rock pressure _____ psig (surface measurement) after _____ hours shut in

(Continue on reverse side)

5725
RITCHIE 6525

RECEIVED
Office of Oil and Gas
JAN 02 2019
WV Department of
Environmental Protection

FORM IV-35
(REVERSE)

RIT-6525

DETAILS OF PERFORATED INTERVALS, FRACTURING OR STIMULATING, PHYSICAL CHANGE, ETC.
Fractured by Halliburton on 10-20-83.

1st. Stage - Perf 3221-3225 W/3, 3109-3117 W/9; 12 Bbls. acid; 126 Bbls. Water; 50,000# Sand; 403,000 SCF N₂.

2nd. Stage - Perf. 2457-2459 W/3, 2056-2146 W/9; 13 Bbls. acid; 135 Bbls. Water; 50,000# Sand; 378,000 SCF N₂.

WELL LOG

FORMATION	COLOR	HARD OR SOFT	TOP FEET	BOTTOM FEET	REMARKS Including indication of all fresh and salt water, coal, oil and gas
Red Rock			0'	15	
Sand			15	22	20' (Fresh Water)
Red Rock			22	45	
Sand			45	65	
Red Rock			65	69	
Sand			69	205	
Red Rock			205	270	
Sand			270	320	280' (Salt Water)
Red Rock			320	328	
Sand			328	352	
Shale & Red Rock			352	414	
Sand			414	425	
Shale & Red Rock			425	770	
Shale			770	928	
Sand			928	968	
Shale & Red Rock			968	1180	
Sand			1180	1237	
Shale			1237	1269	
Sand			1269	1302	
Shale			1302	1760	
Little Lime			1760	1775	
Shale			1775	1800	
Big Lime			1800	1880	
Big Injun			1880	1940	
Shale			1940	2117	
Sand			2117	2182	
Sand & Devonian Shale			2182	5200'	
TOTAL DEPTH				5200'	

(Attach separate sheets as necessary)

Carnegie Natural Gas Company
Well Operator
By: Kenneth E. Dunay
Date: January 3, 1984

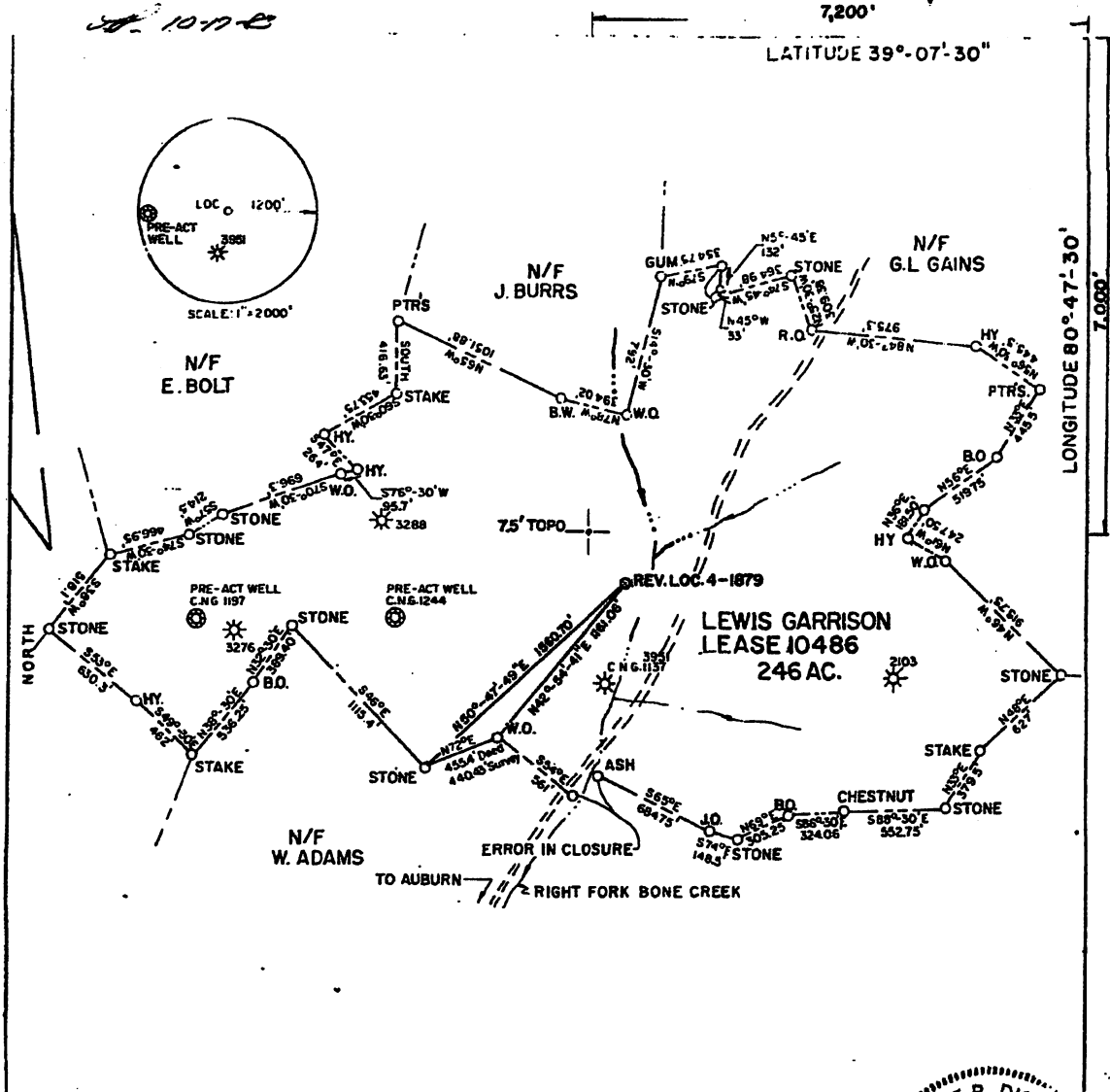
RECEIVED
Office of Oil and Gas

JAN 02 2019

WV Department of
Environmental Protection

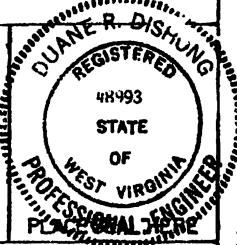
Note: Regulation 2.02(i) provides as follows:
"The term 'log' or 'well log' shall mean a systematic detailed geological record of all formations, including coal, encountered in the drilling of a well."

47-085-06525P



FILE NO. _____
 DRAWING NO. _____
 SCALE 1" = 800'
 MINIMUM DEGREE OF ACCURACY 1' IN 200'
 PROVEN SOURCE OF ELEVATION BM 600' ± SOUTH OF LOC. ELEV. 962'

I THE UNDERSIGNED, HEREBY CERTIFY THAT THIS PLAT IS CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF AND SHOWS ALL THE INFORMATION REQUIRED BY LAW AND THE REGULATIONS ISSUED AND PRESCRIBED BY THE DEPARTMENT OF MINES.
 (SIGNED) Duane R. Dishong
 R.P.E. 8993 L.S.



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



REVISED DATE 10-4, 19 83
 OPERATOR'S WELL NO. 4-1879
 API WELL NO. _____
47 085 6525-Rev.
 STATE COUNTY PERMIT

STATE OF WEST VIRGINIA
 DEPARTMENT OF MINES
 OIL AND GAS DIVISION

WELL TYPE: OIL ___ GAS ___ LIQUID INJECTION ___ WASTE DISPOSAL ___
 (IF "GAS,") PRODUCTION ___ STORAGE ___ DEEP ___ SHALLOW ___
 LOCATION ELEVATION 980' WATER SHED RIGHT FORK BONE CREEK
 DISTRICT UNION COUNTY MITCHELL

QUADRANGLE AUBURN
 SURFACE OWNER VIRGINIA ADAMS ACREAGE 246
 OIL & GAS ROYALTY OWNER LEWIS GARRISON HRS. LEASE ACREAGE 246
 LEASE NO. 10486

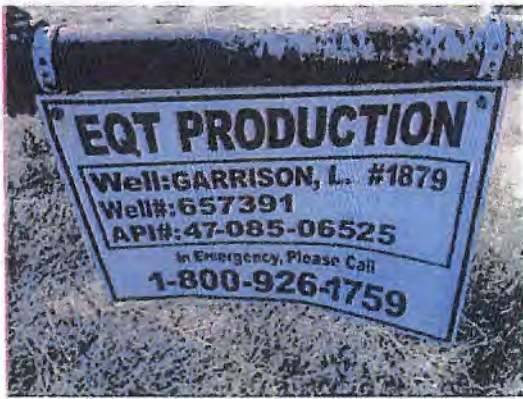
PROPOSED WORK: DRILL ___ CONVERT ___ DRILL DEEPER ___ REDRILL ___ FRACTURE OR STIMULATE ___ PLUG OFF OLD FORMATION ___ PERFORATE NEW FORMATION ___ OTHER PHYSICAL CHANGE IN WELL (SPECIFY) _____

PLUG AND ABANDON ___ CLEAN OUT AND REPLUG ___
 TARGET FORMATION ALEXANDER ESTIMATED DEPTH 5200'
 WELL OPERATOR CARNEGIE NATURAL GAS CO. DESIGNATED AGENT JC STEPHENSON, DIVISION SUPERINTENDENT
 ADDRESS 800 REGIS AVENUE ADDRESS P.O. BOX 387
PITTSBURGH, PA 15236 MANNINGTON, W VA 26582

RECEIVED
 Office of Oil and Gas
 JAN 02 2019
 WV Department of Environmental Protection



Site Pictures
Lewis Garrison #1897
WV 657391 47-085-06525



WV 657391 Well ID Sign



WV 657391 Well Pad Site



WV 657391 Well Pad Site



WV 657391 Well Pad Site

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

CHARLESTON OFFICE
301 RHL Boulevard - Suite 5
Charleston, WV 25309
phone: 304-756-2949 fax: 304-756-2948

ALLEGHENYSURVEYS.COM

RECEIVED
Office of Oil and Gas

JAN 02 2019

WV Department of
Environmental Protection

1) Date: December 11 2018
2) Operator's Well Number
657381 Lewis Garrison #1897
3) API Well No.: 47 - 085 - 06525

STATE OF WEST VIRGINIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS
NOTICE OF APPLICATION TO PLUG AND ABANDON A WELL

4) Surface Owner(s) to be served:	5) (a) Coal Operator
(a) Name <u>See Attached</u>	Name _____
Address _____	Address _____
(b) Name _____	(b) Coal Owner(s) with Declaration
Address _____	Name <u>See Attached</u>
(c) Name _____	Address _____
Address _____	Name _____
6) Inspector <u>Michael Goff</u>	(c) Coal Lessee with Declaration
Address <u>1723 Auburn Road</u>	Name _____
<u>Pullman WV 26421</u>	Address _____
Telephone <u>304-549-9823</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 Department of Environmental Protection, with respect to the well at the location described on the attached Application and depicted on the attached Form WW-6. Copies of this Notice, the Application, and the plat have been mailed by registered or certified mail or delivered by hand to the person(s) named above (or by publication in certain circumstances) on or before the day of mailing or delivery to the Chief.



Well Operator EQT Production Company
 By: Erin Spine
 Its: Regional Land Supervisor
 Address 2400 Ansys Drive, Suite 200
Canonsburg PA 15317
 Telephone (304) 848-0035

Subscribed and sworn before me this 18 day of December 2018
Rebecca L. Wanstreet Notary Public
My Commission Expires 4-7-2020

Oil and Gas Privacy Notice

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

RECEIVED
Office of Oil and Gas
JAN 02 2019
WV Department of
Environmental Protection

Owner(s) (Surface and Access) and Coal Owner(s)

Carey A. Adams
510 Wellshire Place
Chester, VA 23836-5755

George William Adams III.
740 Old Dibble Road
Aiken, SC 29803-2761

Gregory J. Adams
109 South Marion Avenue
Hopewell, VA 23860-3229

Jeffrey G. Adams
5800 Barbara Lane
Prince George, VA 23875-2243

Kenneth E. Adams
716 Spring Valley Road
South Chesterfield, VA 23834-5810

Laura Lee McQueeney
131 County Road 916
Anna, TX 75409-4414

Lisa A. Adamsky
120 Marlboro Drive
McMurray, PA 15317-3651

Potential Water Owner(s):

George William Adams III.
740 Old Dibble Road
Aiken, SC 29803-2761

RECEIVED
Office of Oil and Gas

JAN 02 2019

WV Department of
Environmental Protection

7015 1730 0000 7897 4946

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

For delivery information, visit our website at 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 \$

Postmark Here

Kenneth E. Adams
716 Spring Valley Road
South Chesterfield, VA 23834-5810
657391 Garrison #1879

for instructions

7015 1730 0000 7897 4939

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

For delivery information, visit our website at 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 \$

Postmark Here

Jeffrey G. Adams
5800 Barbara Lane
Prince George, VA 23875-2243
657391 Garrison #1879

for instructions

7015 1730 0000 7897 4953

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

For delivery information, visit our website at 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 P \$

Sent To \$

Street #

City, St

PS Form 3800, April 2014 (PSN 7530-02-000-9047) See Reverse for Instructions

Laura Lee McQueeney
131 County Road 916
Anna, TX 75409-4414
657391 Garrison #1879

7015 1730 0000 7897 4960

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

For delivery information, visit our website at 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 \$

Sent \$

Street \$

City \$

PS Form 3800, April 2014 (PSN 7530-02-000-9047) See Reverse for Instructions

Lisa A. Adamsky
120 Marlboro Drive
McMurray, PA 15317-3651
657391 Garrison #1879

7015 1730 0000 7897 4977

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

For delivery information, visit our website at 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 \$

Sent \$

Street \$

City \$

PS Form 3800, April 2014 (PSN 7530-02-000-9047) See Reverse for Instructions

George William Adams III.
740 Old Dibble Road
Aiken, SC 29803-2761
657391 Garrison #1879

7015 1730 0000 7897 4922

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

For delivery information, visit our website at 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 \$

Sent \$

Street \$

City \$

PS Form 3800, April 2014 (PSN 7530-02-000-9047) See Reverse for Instructions

Gregory J. Adams
109 South Marion Avenue
Hopewell, VA 23860-3229
657391 Garrison #1879

RECEIVED
Office of Oil and Gas
JAN 09 2019

47-085-06525P

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

For delivery information, visit our website at www.usps.com™

OFFICIAL USE

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
 Street
 City, State, ZIP+4®

PS Form 3800, June 2015

Instructions

7015 1730 0000 7897 4908



Carey A. Adams
 510 Wellshire Place
 Chester, VA 23836-5755
 657391 Garrison #1879

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

For delivery information, visit our website at www.usps.com™

OFFICIAL USE

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 checked="" type="checkbox"/> Adult Signature Required	\$ _____
<input type="checkbox"/> Adult Signature Restricted Delivery	\$ _____

Postage
 \$ _____
 Total
 \$ _____

Sent
 Street
 City, State, ZIP+4®

PS Form 3800, June 2015

Instructions

7015 1730 0000 7897 4915



George William Adams III.
 740 Old Dibble Road
 Aiken, SC 29803-2761
 657391 Garrison #1879

RECEIVED
Office of Oil and Gas

JAN 02 2019

WV Department of
Environmental Protection

WW-9
(5-16)

API Number 47 - 085 - 06525
Operator's Well No. 657391 Lewis Garrison E1897

STATE OF WEST VIRGINIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION
OFFICE OF OIL AND GAS
FLUIDS CUTTINGS DISPOSAL & RECLAMATION PLAN

Operator Name: EOT Production Company
Watershed (HUC ID): Right Fork Bone Creek
Quadrangle: Auburn
OP Code: 306686

Do you anticipate using more than 5,000 bbls of water to complete the proposed well work? Yes No
Will a pit be used? Yes No

If so, please describe anticipated pit waste: Formation Fluids
Will a synthetic liner be used in the pit? Yes No If so, what ml @ 20 ml

Proposed Disposal Method For Treated Pit Wastes
Land Application (if selected provide a completed form WW-9-GPP)
Underground Injection (HUC Permit Number)
 Reuse (at API Number)
 Off Site Disposal (Supply form WW-9 for disposal location)
Other (explain)

MAG
6-14-19

Will closed loop systems be used? If so, describe.
Drilling medium anticipated for this well (vertical and horizontal)? Air, freshwater, oil based, etc.
-If oil based, what type? Synthetic, petroleum, etc.
Additives to be used in drilling medium?
Drill cuttings disposal method: Leave in pit, landfill, removed offsite, etc.
-If left in pit and plan to solidify what medium will be used? (cement, lime, sawdust)
-Landfill or offsite name permit number?

Permittee shall provide written notice to the Office of Oil and Gas of any load of drill cuttings or associated waste rejected at any West Virginia solid waste facility. The notice shall be provided within 24 hours of rejection and the permittee shall also disclose where it was properly disposed.

I certify that I understand and agree to the terms and conditions of the GENERAL WATER POLLUTION PERMIT issued on April 1, 2016, by the Office of Oil and Gas of the West Virginia Department of Environmental Protection. I understand that the provisions of the permit are enforceable by law. Violations of any term or condition of the general permit and/or other applicable law or regulation can lead to enforcement action.

I certify under penalty of law that I have personally examined and am familiar with the information submitted on this application form and all attachments thereto and that, based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the information is true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine or imprisonment.

Company Official Signature *[Signature]*
Company Official (Typed Name) Erin Spine
Company Official Title Regional Land Supervisor

Subscribed and sworn before me this 18 day of December, 2018.
[Signature]
My commission expires 4-7-2020



RECEIVED
Office of Oil and Gas

JAN 02 2019

Form WW-9

Operator's Well No 657391 Lewis Garrison #1897

Proposed Revegetation Treatment: Acres Disturbed 1± Prevegetation pH _____

Line 3 Tons/acre or to correct to pH 6.5

Fertilizer type (10-20-20) or equivalent

Fertilizer amount 1/3 ton lbs/acre

Mulch 2 Tons/acre

Seed Mixtures

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

Attach:

Maps(s) of road, location, pit and proposed area for land application (unless engineered plans including this info have been provided). If water from the pit will be land applied, provide water volume, include dimensions (L, W, D) of the pit, and dimensions (L, W), and area in acres, of the land application area.

Photocopied section of involved 7.5' topographic sheet.

Plan Approved by: Michael Doff

Comments: Presced & Mulch any disturbed areas

Title: Oil & Gas Inspector Date: 6-14-19

Field Reviewed? Yes No

RECEIVED
Office of Oil and Gas
JAN 02 2019
WV Department of
Environmental Protection

**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

RECEIVED
Office of Oil and Gas

JAN 02 2019

WV Department of
Environmental Protection

Topo Quad: Auburn 7 5'

Scale: 1" = 500'

County: Ritchie

Date: November 13, 2018

District: Union

Project No: 68-38-00-08

Highway **47-085-06525 WV 657391 (Lewis Garrison #1897)**

Pit Location Map

**47-085-06525
WV 657391**

Existing Well
Access Road

**NAD 27, North Zone
N:223445.72
E:1626257.52**

**WGS 84
LAT:39.106054
LONG:-80.816868
ELEV:972.36'**

LEGEND

 Proposed Pit Location



SURVEYING AND MAPPING SERVICES PERFORMED BY.

ALLEGHENY SURVEYS, INC.

1-800-482-8806
237 Birch River Road
Birch River, WV 26610
PH: (304) 649-8806
FAX: (304) 649-8808

PREPARED FOR.

EQT Production Company

2400 Ansys Drive, Suite 200
Canonsburg, PA 15317

RECEIVED
Office of Oil and Gas

JAN 02 2019

WV Department of
Environmental Protection

Topo Quad: Auburn 7.5'

Scale: 1" = 200'

County: Ritchie

Date: November 13, 2018

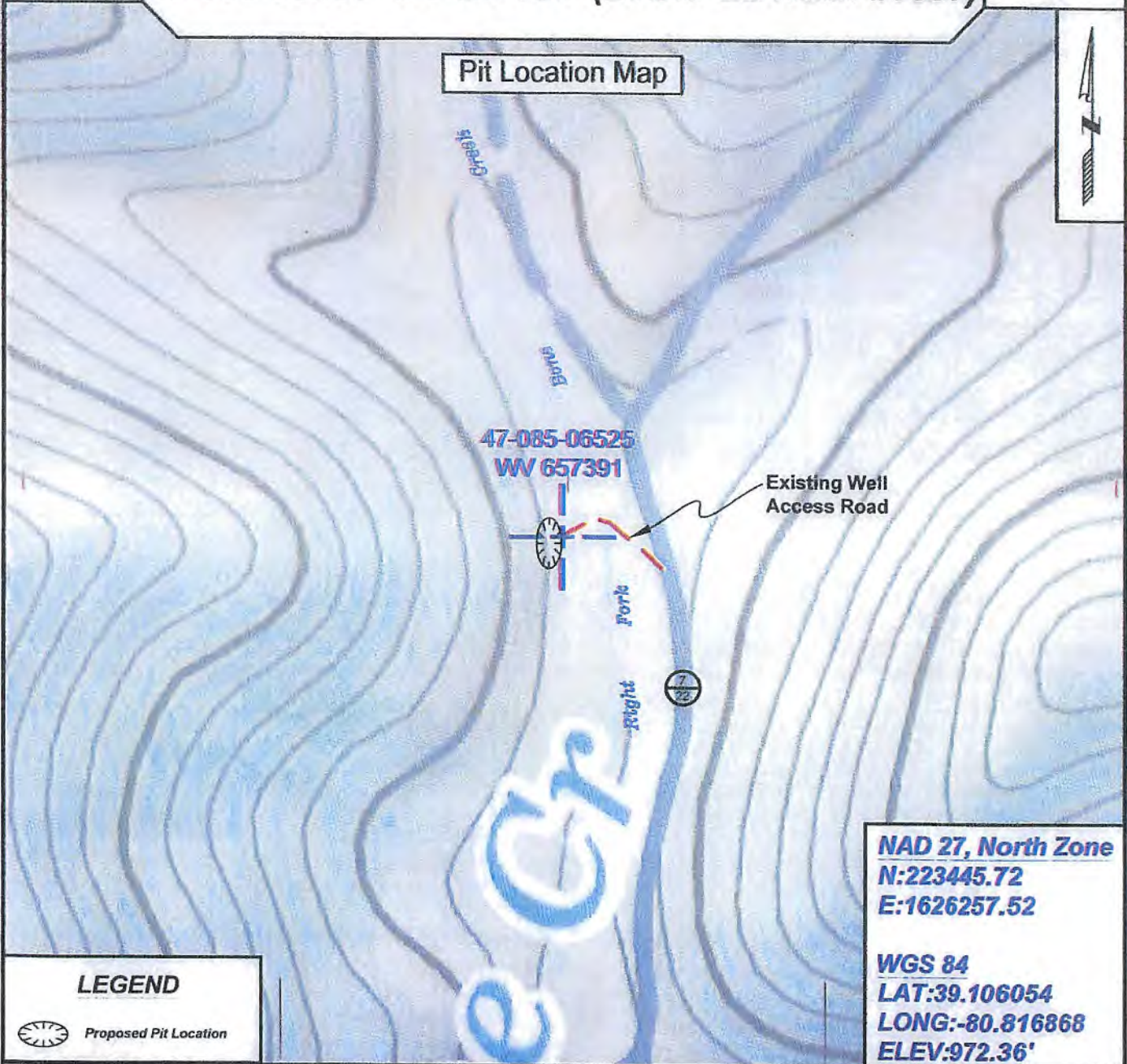
District: Union

Project No: 68-38-00-08


47-085-06525 WV 657391 (Lewis Garrison #1897)

Topo

Pit Location Map



LEGEND

 Proposed Pit Location

NAD 27, North Zone
N:223445.72
E:1626257.52

WGS 84
LAT:39.106054
LONG:-80.816868
ELEV:972.36'



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

2400 Ansys Drive, Suite 200
 Canonsburg, PA 15317

RECEIVED
 Office of Oil and Gas

JAN 02 2019

Topo Quad: Auburn 7.5'

Scale: 1" = 2000'

County: Ritchie

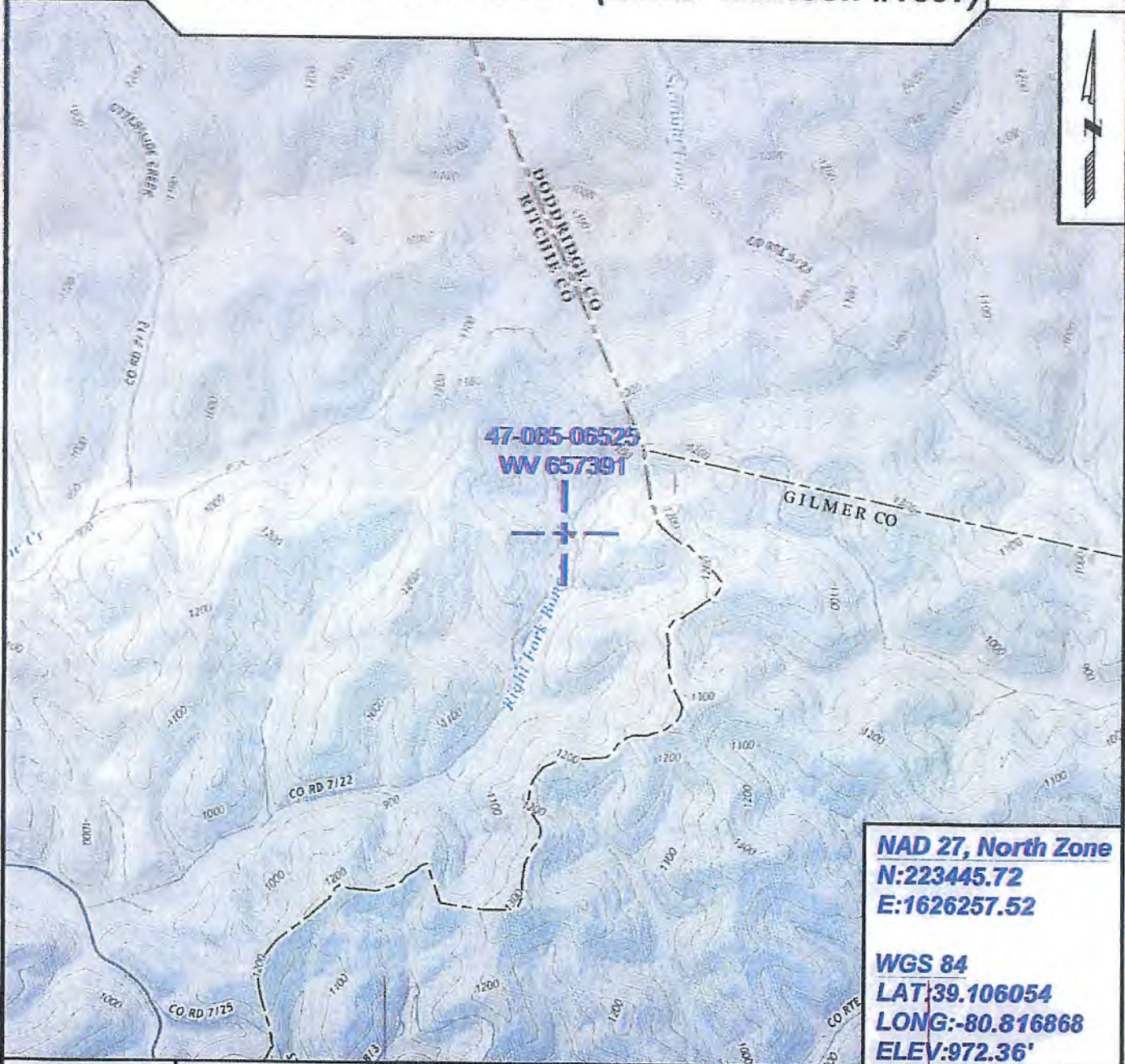
Date: November 13, 2018

District: Union

Project No: 68-38-00-08

47-085-06525 WV 657391 (Lewis Garrison #1897)

Topo



NAD 27, North Zone
N:223445.72
E:1626257.52

WGS 84
LAT:39.106054
LONG:-80.816868
ELEV:972.36'



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

2400 Ansys Drive, Suite 200
 Canonsburg, PA 15317

RECEIVED
 Office of Oil and Gas

JAN 02 2019



POTENTIAL WATER SAMPLE DATA SHEET

CLIENT: EOT PRODUCTION COMPANY
LEASE NAME AND WELL No. Lewis Garrison #1897 - WV 657391 - API No. 47-085-06525

POTENTIAL SAMPLE LOCATIONS

Site: 1 Spacing: 868 +/- Owner: George William Adams III
Address: 740 Old Dibble Road, Aiken, SC 29803-2761 Phone No. _____
Comments: House

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

CHARLESTON OFFICE
301 RHL Boulevard - Suite 5
Charleston, WV 25309
phone: 304-756-2949 fax: 304-756-2948

ALLEGHENYSURVEYS.COM

RECEIVED
Office of Oil and Gas

JAN 02 2019

Topo Quad: Auburn 7.5'

Scale: 1" = 2000'

County: Ritchie

Date: November 13, 2018

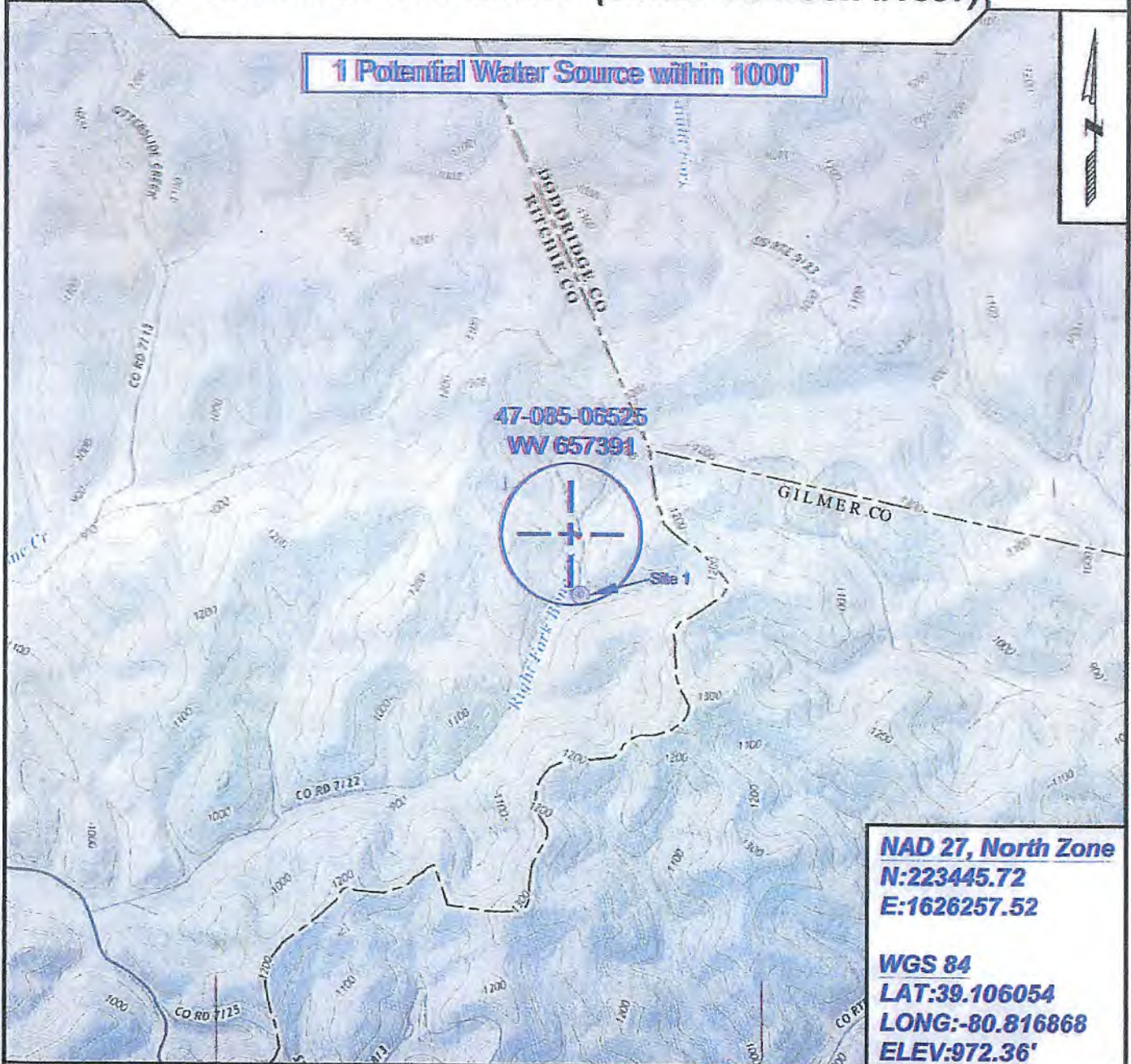
District: Union

Project No: 68-38-00-08

Water

47-085-06525 WV 657391 (Lewis Garrison #1897)

1 Potential Water Source within 1000'



NAD 27, North Zone
N:223445.72
E:1626257.52

WGS 84
LAT:39.106054
LONG:-80.816868
ELEV:972.36'



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

2400 Ansys Drive, Suite 200
 Canonsburg, PA 15317

RECEIVED
 Office of Oil and Gas

JAN 02 2019



**Miss Utility of West Virginia (WV811)
(Exhibit A)**

**Directions to Gas Well No. WV 657391
API No. 47-085-06525**

- Beginning at the intersection of US Interstate 79 Exit 79 (Burnsville/Glenville) and WV State Route 5 in Braxton County, WV.
- Proceed Northwest on WV State Route 5 for 15.0 miles to the intersection with US Routes 33 & 119.
- Turn right onto US Routes 33 & 119 and proceed Northeast for 1.8 miles to WV County Route 1, on the left.
- Turn left onto WV County Route 1 and proceed Northwest for 7.9 miles to the intersection with WV State Route 47.
- Turn left onto WV State Route 47 and proceed Northwest for 1.1 miles to WV State Route 74, on the right.
- Turn right onto WV State Route 74 and proceed Northwest for 3.5 miles to WV County Route 7/22 (Garrison Hollow Road), on the right. *(Point No. 1)*
- Turn right onto WV County Route 7/22 (Garrison Hollow Road) and proceed Northeast for 1.9 miles to the Well Access Road, on the left. *(Point No. 2)*
- Turn left onto the Well Access Road and proceed West for 174 feet arriving at Gas Well WV 657391. *(Point No. 3)*

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

CHARLESTON OFFICE
301 RHL Boulevard - Suite 5
Charleston, WV 25309

phone: 304-756-2949 fax: 304-756-2948

ALLEGHENYSURVEYS.COM

RECEIVED
Office of Oil and Gas

JAN 02 2019



**MISS UTILITY OF WEST VIRGINIA (WV 811)
(EXHIBIT B)
DIRECTIONS TO EXISTING GAS WELL NO. WV 657391
API NO. 47-085-06525**



SITE	LATITUDE	LONGITUDE
1	39.091054	-80.840731
2	39.105941	-80.816360
3	39.106054	-80.816868



- NOTES**
1. ALL ACCESS ROADS SHOWN HEREON ARE EXISTING AND WERE FLAGGED IN PINK AND WHITE MARKING RIBBON.
 2. THIS MAP IS PREPARED ONLY FOR THE PARTIES REFERENCED HEREON FOR THE PURPOSE OF NOTIFICATION TO MISS UTILITY OF WEST VIRGINIA (WV 811).
 3. DRAWING IS NOT TO SCALE.



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

County: Ritchie
District: Union
Date: November 15, 2018
Project No: 68-38-00-08
File Name: WV 657391 GARRISON

PREPARED FOR:
EQT Production Company
2400 Ansys Drive, Suite 200
Canonsburg, PA 15317

WV Department of
Environmental Protection
JAN 02 2019
VED
Oil and Gas

47-085-06525 P

WV-7
E-30-06



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

API: 47-085-06525 WELL NO.: WV 657391 (Lewis Garrison #1897)

FARM NAME: Lewis Garrison

RESPONSIBLE PARTY NAME: EQT Production Company

COUNTY: Ritchie DISTRICT: Union

QUADRANGLE: Auburn 7.5'

SURFACE OWNER: George William Adams III

ROYALTY OWNER: George William Adams III

UTM GPS NORTHING: 4328562

UTM GPS EASTING: 515834 GPS ELEVATION: 296 m (972 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.

Steph Olson
Signature

PS# 2100
Title

1/15/18
Date

RECEIVED
Office of Oil and Gas

JAN 02 2019



22001 Arroyo Drive - Suite 200
Charleston, WV 25317
(304) 848-0035

CERTIFIED MAIL

Dear Sir or Madam

Re: Proposed 657391 Lewis Garrison #1897 Gas Well
Union District, Ritchie County.

Pursuant to Section 22B-1-9 of the West Virginia Code, enclosed please find copies of the following documents:

- Form WW-4A Notice of Application for a Pluggin Permit (1 copy)
- Form WW-4B Application for a Pluggin Permit (1 copy)
- Form WW-7 Certified Copy of WVDEP Well Location
- Form WW-9 Reclamation Plan and Site Registration Application (1 copy)

This application is being filed by EQT Production with the Administrator of the Office of Oil and Gas of the West Virginia Department of Environmental Protection. If you have no objections to this well being plugged, please sign the Waiver on Form WW-4(A) and return one copy to our office.

Thank you for your cooperation and consideration. Should you have any questions, comments, or require any additional information, please feel free to contact me at (304) 848-0035.

Sincerely,
EQT PRODUCTION COMPANY


Erin Spine
Regional Land Supervisor- WV

Enclosures

RECEIVED
Office of Oil and Gas

JAN 02 2019

WV Department of
Environmental Protection