



west virginia department of environmental protection

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

November 03, 2015

WELL WORK PLUGGING PERMIT

Plugging

This permit, API Well Number: 47-2103124, 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: 1265
Farm Name: ARBUCKLE, M. E.
API Well Number: 47-2103124
Permit Type: Plugging
Date Issued: 11/03/2015

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

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: October 19, 2015
Operator's Well
Well No. 655351 (Arbuckle #1265)
API Well No.: 47 021 - 03124

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

CK 19898
100°

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: 1157 ft. Watershed:
Location: Center County: Gilmer Quadrangle: Normantown 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 Danny Mullins
Name: ~~124 Big Trace Fork Road~~ 220 Jack Ayles Rd
Address: ~~Harts, WV 25524~~ Buckhannon WV 26201

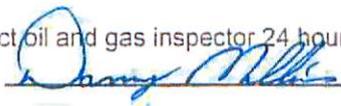
9) Plugging Contractor:
Name: HydroCarbon Well Service
Address: PO BOX 995
Buckhannon, WV 26201

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



Date 10-26-15

RECEIVED
Office of Oil and Gas

NOV 3 2015

PLUGGING PROGNOSIS

Arbuckle, M.E. #1265

(655351)

Gilmer Co. WV

District, Center

API # 47-021-03124

BY: R.Green

DATE: 07/16/15

CURRENT STATUS:

10 3/4" @ 120'

8 1/4" @ 787'

3" tbg set on packer @ 1483'

TD @ 1483'

Elevation @ 1157'

Fresh Water @ none reported**Salt Water @** none reported1st salt sand @ 1014'**Coal @** none reported

Oil shows @ none reported

Gas Shows @ Maxton@1411"

1. Notify State Inspector, Danny Mullins, @ 1-304-932-6844, Danny.S.Mullins@wv.gov 24 hrs. to commencing operations.
2. Attempt to pull 3" tbg, if unable to pull, cut 3" tbg off @ packer @ 1483'. TOOH tbg.
3. TIH to 1483' set 575' C1A cement plug, 1483' to 908', (Maxton gas show, 3" packer cut, elevation, & 1st salt sand.)
4. TOOH tbg to 908', gel hole 908' to 837', TOOH tbg to 837', Set 100' C1A cement plug 837' to 737', (8 1/4" casing seat).
5. TOOH tbg to 737', gel hole 737' to 637'. TOOH tbg
6. Free point 8 1/4" casing, cut casing @ free point. TOOH 8 1/4" casing.
7. Set 100' C1A cement plug 50' in/out of casing cut, perforate all coal, saltwater, freshwater, oil and gas shows below cut. Do not omit any plugs.
8. TOOH tbg to 637' gel hole 637' to 250', TOOH tbg to 250', set 250' C1A cement plug 250' to surface. (10" casing seat).
9. Top off with C1A cement if needed.
10. Erect monument with API#, company name, and date.
11. Reclaim location and road to WV-DEP Specifications.

IF 10" IS NOT CEMENTED,
MUST TRY TO PULL 10" CASING.

gmm

RECEIVED
Office of Oil and Gas
OCT 22 2015
WV Department of
Environmental Protection

NOV 3 2015

WW-4-A
Revised 6/07

WV Department of
Environmental Protection

1) Date: October 19, 2015
2) Operator's Well Number
655351 (Arbuckle #1265)
3) API Well No.: 47 021 - 03124
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>Lewis Stephen Babich</u>	Name <u>None</u>
Address <u>P. O. Box 115</u>	Address _____
<u>Normantown, WV 25267</u>	_____
(b) Name _____	(b) Coal Owner(s) with Declaration
Address _____	Name <u>Earnest L. Arbuckle Family Trust</u>
_____	<u>c/o Security National Trust Co.</u>
_____	Address <u>132 Chapline St.</u>
(c) Name _____	<u>Wheeling, WV 26003</u>
Address _____	Name _____
_____	Address _____
6) Inspector <u>Danny Mullins</u>	(c) Coal Lessee with Declaration
Address <u>124 Big Trace Fork Road</u>	Name <u>None</u>
<u>Harts, WV 25524</u>	Address _____
Telephone <u>(304) 932-6844</u>	_____
<u>220 Jack Agers Rd</u>	_____
<u>Buckhannon WV 26201</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:
OFFICIAL SEAL
STATE OF WEST VIRGINIA
NOTARY PUBLIC
Misty S. Christie
1207 Briercliff Rd
Bridgeport, WV 26330
Telephone _____
My Commission Expires February 20, 2018

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

Subscribed and sworn before me this 19th day of October, 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.

WW-9
Revised 2/03

Page ____ of ____

2) Operator's Well Number

655351 (Arbuckle #1265)

3) API Well No.: 47 021 - 03124

**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: _____ Quadrangle: Normantown 7.5'

Elevation: 1157 ft. County: Gilmer District: Center

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

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.

Company Official Signature *Victoria Roark*

Company Official (Typed or Printed) Victoria Roark

Company Official Title Permitting Supervisor-WV

Subscribed and sworn before me this 20th day of October

Misty S. Christie
My Commission Expires 2/20/18

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Office of Oil and Gas
2015
OCT 22 2015

Notary Public, WV
OFFICIAL USE
STATE OF WEST VIRGINIA
NOTARY PUBLIC
Misty S. Christie
1207 Briercliff Rd
Bridgeport, WV 26330
My Commission Expires February 20, 2018
Department of Environmental Protection

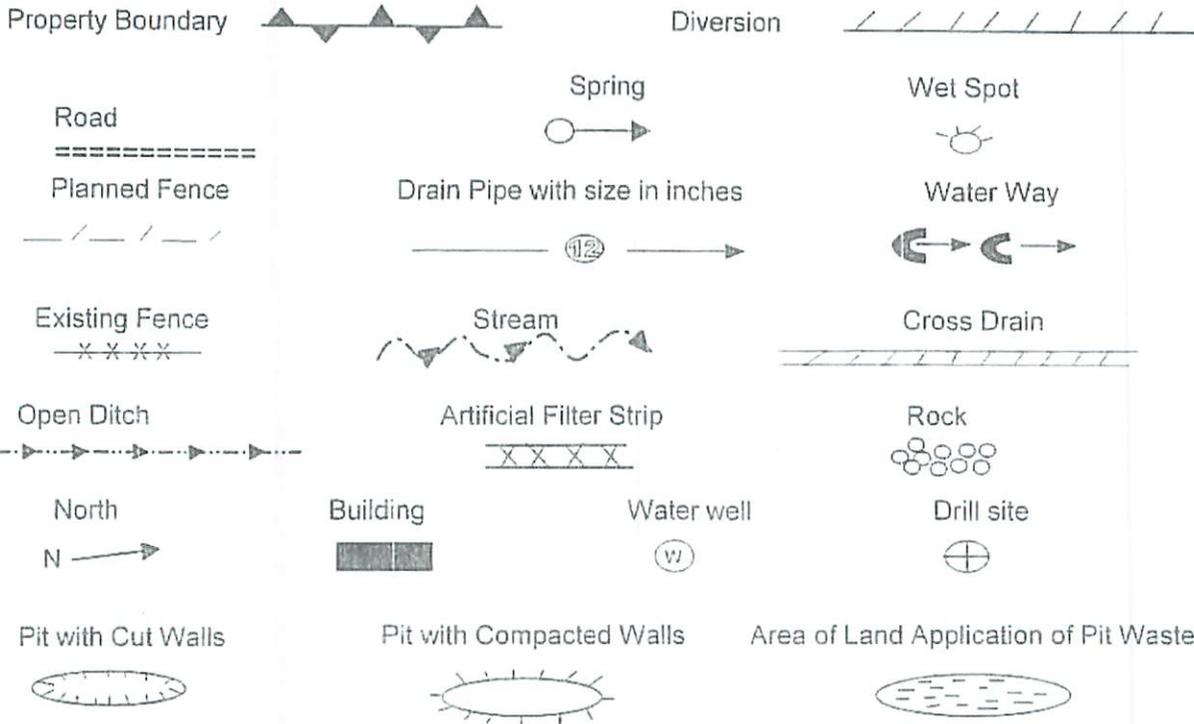
NOV 3 2015

OPERATOR'S WELL NO.:
655351 (Arbuckle #1265)

DM

WV Department of
Environmental Protection

LEGEND



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

Lime 3 Tons/acre or to correct to pH 6.5

Fertilizer (10-20-20) or equivalent 1/3 ton lbs/acre (500 lbs minimum)

Mulch 2 Tons/acre or hydroseed.

SEED MIXTURES

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

ATTACH:

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

Plan approved by: _____

Comments: _____

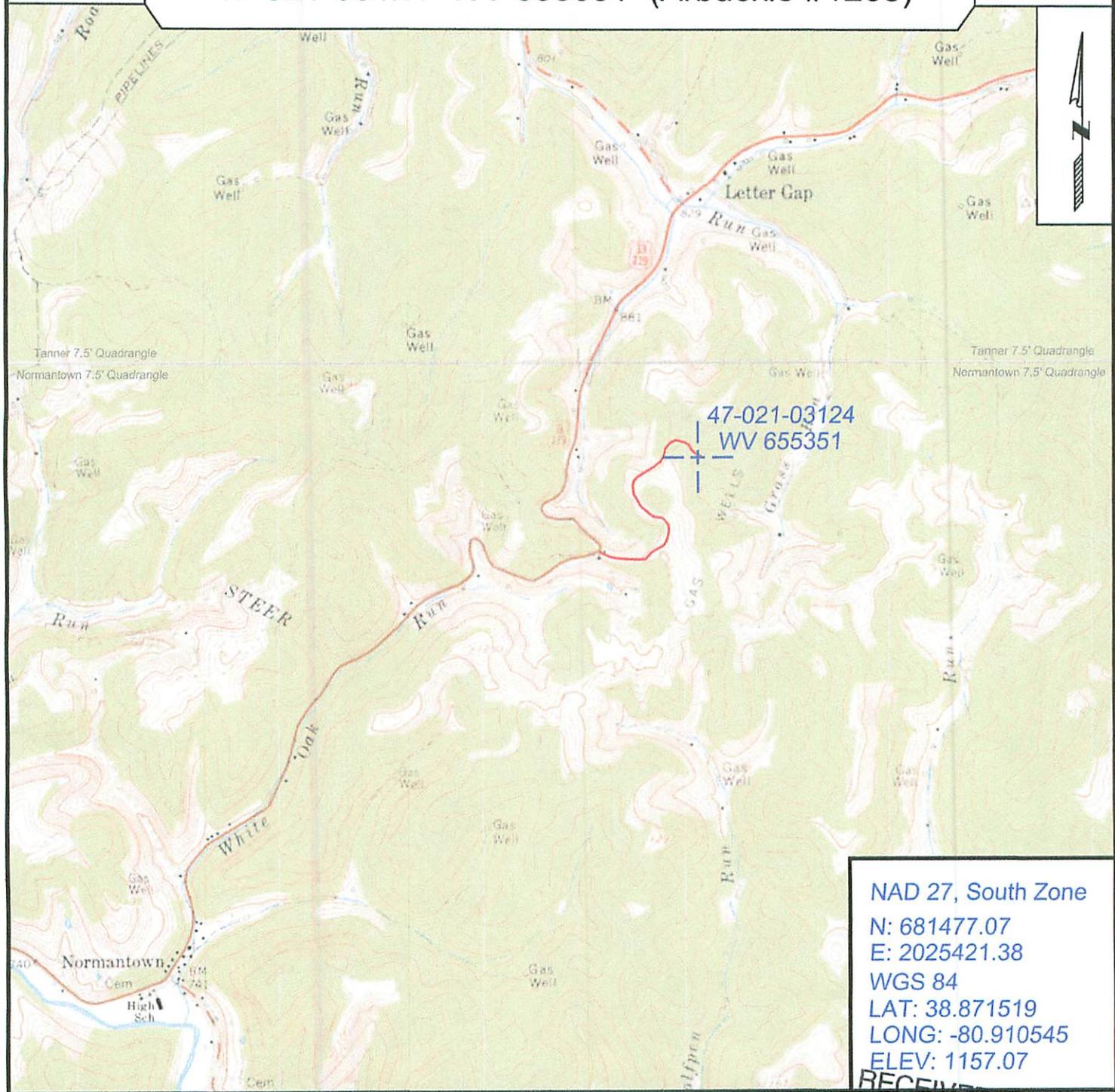
Title: _____ Date: _____

Field Reviewed? Yes No

Topo Quad: Normantown 7.5' Scale: 1" = 2000'
 County: Gilmer Date: July 9, 2015
 District: Center Project No: 25-19-00-07

47-021-03124 WV 655351 (Arbuckle #1265)

Topo



47-021-03124
 WV 655351

NAD 27, South Zone
 N: 681477.07
 E: 2025421.38
 WGS 84
 LAT: 38.871519
 LONG: -80.910545
 ELEV: 1157.07



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: **Office of Oil and Gas**
EQT Production Company
 P.O. Box 228015
 Bridgeport, WV 26330
 WV Department of
 Environmental Protection

WW-7
8-30-06



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

API: 47-021-03124 WELL NO.: WV 655351 (Arbuckle #1265)

FARM NAME: M. E. Arbuckle

RESPONSIBLE PARTY NAME: EQT Production Company

COUNTY: Gilmer DISTRICT: Center

QUADRANGLE: Normantown 7.5'

SURFACE OWNER: Lewis Stephen Babich

ROYALTY OWNER: Ernest L. Arbuckle Family Trust

UTM GPS NORTHING: 4302523

UTM GPS EASTING: 507760 GPS ELEVATION: 353 m (1157 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.

Steve O'Brien
Signature

PS# 2180
Title

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Office of Oil and Gas

7/01/15 2015
Date

WV Department of
Environmental Protection



POTENTIAL WATER SAMPLE DATA SHEET

CLIENT: EQT PRODUCTION COMPANY
LEASE NAME AND WELL No. Arbuckle #1265 - WV 655351 - API No. 47-021-03124

POTENTIAL SAMPLE LOCATIONS

There appears to be no known water samples within the required 1000' of the existing well WV 655351.

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

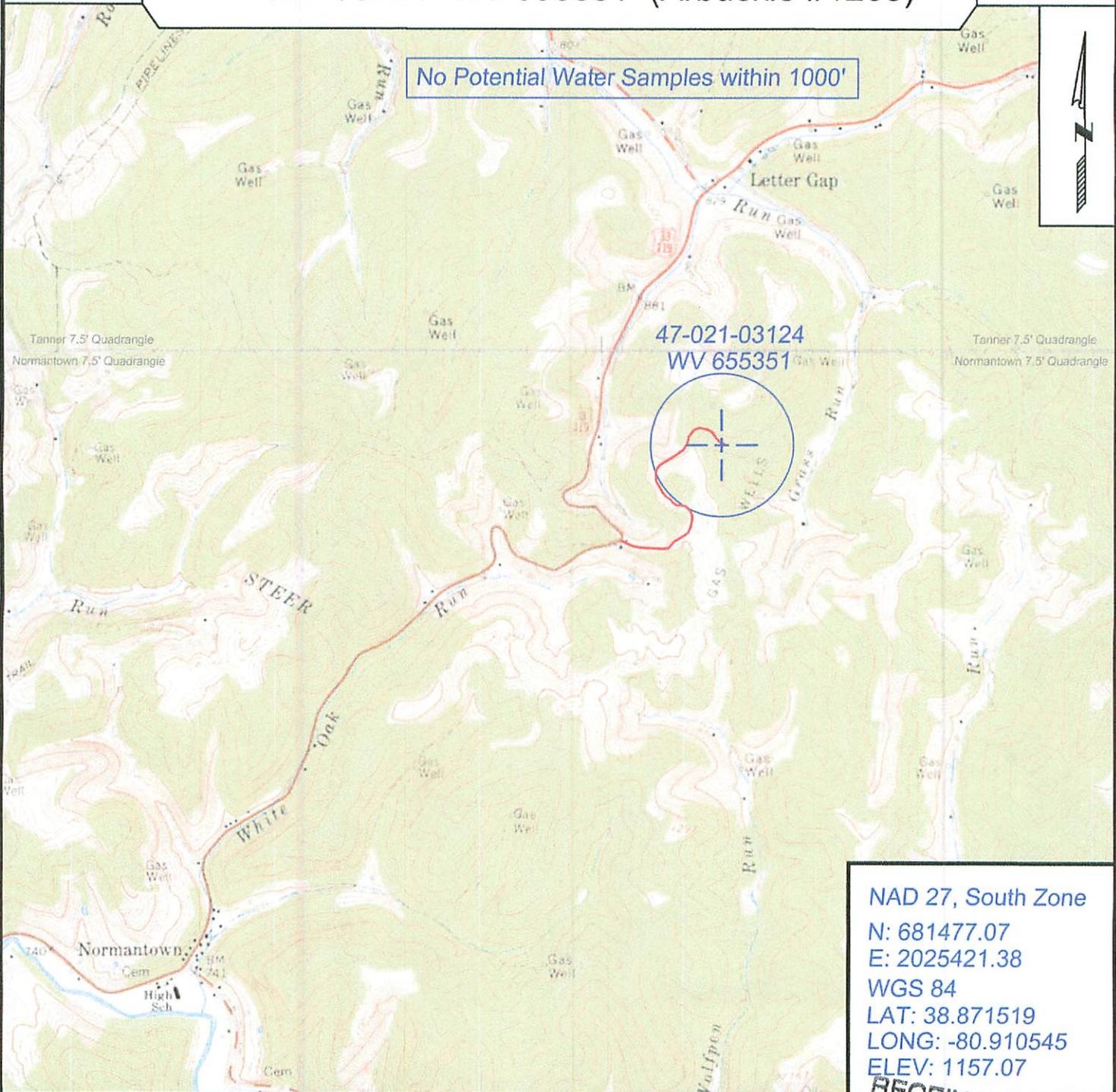
RECEIVED
RANSON OFFICE
Office of Oil and Gas
Ranson, WV 25085
phone: 304-724-5008
fax: 304-724-5010
OCT 22 2015

Topo Quad: Normantown 7.5' Scale: 1" = 2000'
 County: Gilmer Date: July 9, 2015
 District: Center Project No: 25-19-00-07

Water

47-021-03124 WV 655351 (Arbuckle #1265)

No Potential Water Samples within 1000'



NAD 27, South Zone
 N: 681477.07
 E: 2025421.38
 WGS 84
 LAT: 38.871519
 LONG: -80.910545
 ELEV: 1157.07



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PREPARED FOR: **Office of Oil and Gas**
EQT Production Company
 P.O. Box 2802015
 Bridgeport, WV 26330
 WV Department of
 Environmental Protection