



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

April 21, 2015

WELL WORK PLUGGING PERMIT

Plugging

This permit, API Well Number: 47-4102416, 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: 1184

Farm Name: BAILEY, A. B.

API Well Number: 47-4102416

Permit Type: Plugging

Date Issued: 04/21/2015

Promoting a healthy environment.

04/24/2015

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.

CK 19094
100.00

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

Date: March 10, 2011
Operator's Well
Well No. 654846 (A. B. Bailey #1184)
API Well No.: 47 041 - 02416

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 Liquid Injection Waste Disposal:
If Gas, Production Or Underground storage Deep Shallow

5) Elevation: 1120 ft. Watershed: Klines Run
Location: Freemans Creek County: Lewis Quadrangle: Vadis
District: _____

6) Well Operator EQT Production Company 7) Designated Agent: Rex C. Ray
Address: 120 Professional Place Address: 120 Professional Place
Bridgeport, WV 26330 Bridgeport, WV 26330

8) Oil & Gas Barry Stollings 9) Plugging Contractor:
Name: 28 Conifer Drive Name: HydroCarbon Well Service
Address: Bridgeport, WV 26330 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 Barry Stollings Date 3-24-15

PLUGGING PROGNOSIS –Weston

Bailey, A.B. # 1184 (654846)

Lewis Co., West Virginia

API # 47-041-02416

Dist: Courthouse

BY: Craig Duckworth

DATE: 1/27/15

CURRENT STATUS:

10" csg @ 130' No completion report estimated from 41-02417 (Bailey 1210)
 8 1/4" csg @ 894'
 6 5/8" csg @ 1825'
 3" tbg @ 1850'

TD @ 2014'

Fresh Water @ None reported

Salt Water @ None reported

1st Salt Sand @ None reported

Coal @ None reported

Gas Shows @ None reported

Oil Shows @ None reported

Stimulation: None reported

Elevation:

1. Notify State Inspector, **Barry Stollings 304-552-4194**, 24 hrs. Prior to commencing operations.
2. Attempt to pull 3" csg. Free Point 3", cut 3" @ free point, TOOH w/ 3" csg
3. Set a 100' C1A Cement Plug 50' In/Out of cut. Perf all FW, Coal, Oil and Gas shows below 3" cut. Do not omit any plugs
4. TIH w/ tbg @ 1975'; Set 200' C1A Cement Plug @ 1975' to 1775' (3" @ 1850' & 6 5/8" @ 1825')
5. Set a 100' C1A Cement Plug 50' In/Out of cut. Perf all FW, Coal, Oil and Gas shows below 6 5/8" cut. Do not omit any plugs
6. TOOH w/ tbg @ 1775'; gel hole @ 1775' to 1300'
7. TIH w/ tbg @ 1300'; Set 100' C1A Cement Plug @ 1300' to 1200' (Safety Plug)
8. TOOH w/ tbg @ 1200'; gel hole @ 1200' to 944'
9. TOOH w/ tbg, Free Point 8 1/4", cut 8 1/4" @ free point, TOOH w/ 8 1/4" csg
10. Set a 100' C1A Cement Plug 50' In/Out of cut. Perf all FW, Coal, Oil and Gas shows below 8 1/4" cut. Do not omit any plugs
11. TIH w/ tbg @ 944'; Set 100' C1A Cement Plug @ 944' to 844' (1st 8 1/4" csg @ 894')
12. TOOH w/ tbg @ 844'; gel hole @ 844' to 550'.
13. TIH w/ tbg @ 550'; Set 100' C1A Cement Plug @ 550' to 450' (Safety Plug)
14. TOOH w/ tbg @ 450'; gel hole @ 450' to 200'.
15. TOOH w/ tbg @ 200'; Set 200' C1A Cement Plug @ 200' to Surface (10" csg @ 130')
16. Top off as needed
17. Set Monument to WV-DEP Specifications
18. Reclaim Location & Road to WV-DEP Specifications

Received
Office of Oil & Gas

MAR 3 2 2015

04/24/2015

PLUGGING PROGNOSIS - Weston

Bailey, A.B. # 1184 (654846)

Lewis Co., West Virginia

API # 47-041-02416

Dist: Courthouse

BY: Craig Duckworth

DATE: 1/27/15

CURRENT STATUS:

10" csg @ 130' No completion to surface (10" csg @ 130')
 8 1/4" csg @ 894'
 6 5/8" csg @ 1825'
 3" tbg @ 1850'

TD @ 2014'

Fresh Water @ None reported

1st Salt Sand @ None reported

Gas Shows @ None reported

Oil Shows @ None reported

Stimulation: None reported

Elevation: 100' plug B.S. 3-24-15

Salt Water @ None reported

Coal @ None reported

1. Notify State Inspector, Bureau of Safety and Health, 24 hrs. Prior to commencing operations.
2. Attempt to pull 3" csg. Free Point 3", cut 3" @ free point, TOOH w/ 3" csg
3. Set a 100' C1A Cement Plug 50' In/Out of cut. Perf all FW, Coal, Oil and Gas shows below 3" cut. Do not omit any plugs
4. TIH w/ tbg @ 1975'; Set 200' C1A Cement Plug @ 1975' to 1775' (3" @ 1850' & 6 5/8" @ 1825')
5. Set a 100' C1A Cement Plug 50' In/Out of cut. Perf all FW, Coal, Oil and Gas shows below 6 5/8" cut. Do not omit any plugs
6. TOOH w/ tbg @ 1775'; gel hole @ 1775' to 1300'
7. TIH w/ tbg @ 1300'; Set 100' C1A Cement Plug @ 1300' to 1200' (Safety Plug)
8. TOOH w/ tbg @ 1200'; gel hole @ 1200' to 944'
9. TOOH w/ tbg, Free Point 8 1/4", cut 8 1/4" @ free point, TOOH w/ 8 1/4" csg
10. Set a 100' C1A Cement Plug 50' In/Out of cut. Perf all FW, Coal, Oil and Gas shows below 8 1/4" cut. Do not omit any plugs
11. TIH w/ tbg @ 944'; Set 100' C1A Cement Plug @ 944' to 844' (1st 8 1/4" csg @ 894')
12. TOOH w/ tbg @ 844'; gel hole @ 844' to 550'.
13. TIH w/ tbg @ 550'; Set 100' C1A Cement Plug @ 550' to 450' (Safety Plug)
14. TOOH w/ tbg @ 450'; gel hole @ 450' to 200'.
15. TOOH w/ tbg @ 200'; Set 200' C1A Cement Plug @ 200' to Surface (10" csg @ 130')
16. Top off as needed
17. Set Monument to WV-DEP Specifications
18. Reclaim Location & Road to WV-DEP Specifications

CARNEGIE NATURAL GAS COMPANY

Map Sheet No. Vada 5.25 RECORD OF WELL -- Well No. L-1184
 Drilled on A. B. Bailey Farm of 30 Acres, situate in
near Creek Township Fluv County W. Va. Lease No. 9851-35
 Shipping Point District Foreman

R I G W E L L

Located April 14 1923 Commenced Drilling June 11-1923
 Notified Gen'l Office Notified Gen'l Office
 Commenced May 25 1923 Completed Drilling July 7 -1923
 Completed June 1 1923 Notified Gen'l Office
 Contractor John Craig Contractor C. W. McCall and Co
 Address Chickabug W. Va. Address

ROCK-FORMATION	TOP	BOTTOM	REMARKS	PRESSURE AND VOLUME
Conductor		14		3/4 Minute 95 Lbs.
Mapleton Coal				1 " 140 "
Pittsburgh Coal	52	56		2 " 220 "
Little Dunkard	460	490		3 " 275 "
Big Dunkard	530	625		4 " 305 "
Gas Sand	750	820		5 " 327 "
1st Salt Sand	890	1050	Shor Plug set	10 " 385 "
2nd Salt Sand	1190	1360	938 Steel line	15 " 405 "
Maxton Sand	None			30 " 420 "
Little Lime	1570	1590		1 Hour 430 "
Pencil Cave	1590	1594		Rock 475 "
Big Lime	1594	1667		Size of { Tubing 2 Inch
Big Injun	1667	1758	See 1693 to 1700	{ Casing "
Gantz Sand			" 1750 to 1755	Vol. by Water
50 Foot Sand				" " Mercury 27/10 in 2" opening
30 Foot Sand				" " Pressure
Gordon Stray				
Gordon Sand				
4th Sand				
5th Sand				
Bayard Sand				
Elizabeth				
Speechley				
Bradford				

Received
Office of Oil & Gas
 MAR 12 2015 Notified Lessor

Total Depth 1770 Feet at \$ _____ per Foot \$ _____
 Gas Furnished at _____ Cents per Foot
CASING RECORD 47-041-02416

SIZE	CHARGED TO WELL		PUT IN WELL		PULLED		LEFT IN WELL		TRANSFERRED		LEFT AT WELL		PACKER
	Foot	In.	Foot	In.	Foot	In.	Foot	In.	Foot	In.	Foot	In.	
10	188		135				135				53		Kind <u>Bottom hole</u> Size <u>6 3/8</u> <u>6 3/8</u> Set at <u>1667</u> <u>1679</u> Feet WELL SHOT By _____ With _____ Qts. at _____ Feet
8 1/4	885		735		735						865		
6 7/8	2012		1667				1667				850		
2	1770		1770				1770						

Casing Cemented in Well _____ by _____ Company Employee

04/24/2015

WW-4-A
Revised 6/07

1) Date: March 10, 2011
2) Operator's Well Number
654846 (A. B. Bailey #1184)
3) API Well No.: 47 041 - 02416
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>Raymond and Marjory Golden</u>	Name <u>None</u>
Address <u>775 Klines Run Road</u>	Address _____
<u>Alum Bridge, WV 26231</u>	_____
(b) Name _____	(b) Coal Owner(s) with Declaration
Address _____	Name <u>Raymond and Marjory Golden</u>
_____	Address <u>775 Klines Run Road</u>
_____	Address <u>Alum Bridge, WV 26231</u>
(c) Name _____	Name _____
Address _____	Address _____
_____	_____
_____	_____
6) Inspector <u>Barry Stollings</u>	(c) Coal Lessee with Declaration
Address <u>28 Conifer Drive</u>	Name <u>None</u>
<u>Bridgeport, WV 26330</u>	Address _____
Telephone <u>(304) 552-4194</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.

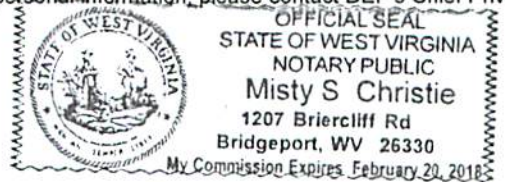
Well Operator:	<u>EQT Production Company</u>
By:	<u>Victoria J. Roark</u>
Its:	<u>Permitting Supervisor</u>
Address:	<u>PO Box 280</u>
	<u>Bridgeport, WV 26330</u>
Telephone:	<u>(304) 848-0076</u>

Subscribed and sworn before me this 11th day of March, 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.



Office of Oil & Gas

MAR 12 2015

04/24/2015

- 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.

1. Article Addressed to:

Raymond and Marjory Golden
775 Klines Run Road
Alum Bridge, WV 26231

#654846

A. Signature

X

- Agent
- Addressee

B. Received by (Printed Name)

C. Date of Delivery

D. Is delivery address different from item 1? Yes
If YES, enter delivery address below: No

3. Service Type

- Certified Mail®
- Registered
- Insured Mail
- Priority Mail Express™
- Return Receipt for Merchandise
- Collect on Delivery

4. Restricted Delivery? (Extra Fee) Yes

2. Article Number
(Transfer from service label)

7014 0150 0001 0654 8303

PS Form 3811, July 2013

Domestic Return Receipt

NV 26330

ark

U.S. Postal Service™
CERTIFIED MAIL™ RECEIPT
(Domestic Mail Only; No Insurance Coverage Provided)

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

OFFICIAL USE

Postage	\$	
Certified Fee		
Return Receipt Fee (Endorsement Required)		
Restricted Delivery Fee (Endorsement Required)		
Total Postage & Fees	\$	

Postmark Here

Sent to Raymond and Marjory Golden
775 Klines Run Road
Alum Bridge, WV 26231

City, State, Zip
Street, Apt. # or PO Box No.

PS Form 3811 #654846



7014 0150 0001 0654 8303

CERTIFIED MAIL™

Received
Office of Oil & Gas
MAR 12 2015

neopost
03/11/2015
US POSTAGE
\$0.40
FIRST CLASS MAIL
ZIN 6330
0411L 922889

04/24/2015

4102416P

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: Klines Run Quadrangle: Vadis

Elevation: 1120 ft. County: Lewis District: Freemans Creek

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*

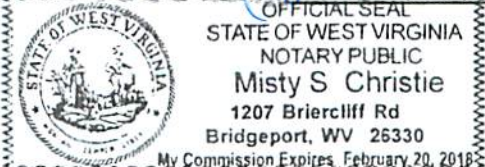
Company Official (Typed or Printed) Victoria Roark

Company Official Title Permitting Supervisor-WV

Subscribed and sworn before me this 11th day of March, 2015

Misty S. Christie Notary Public

My Commission Expires 2/20/18



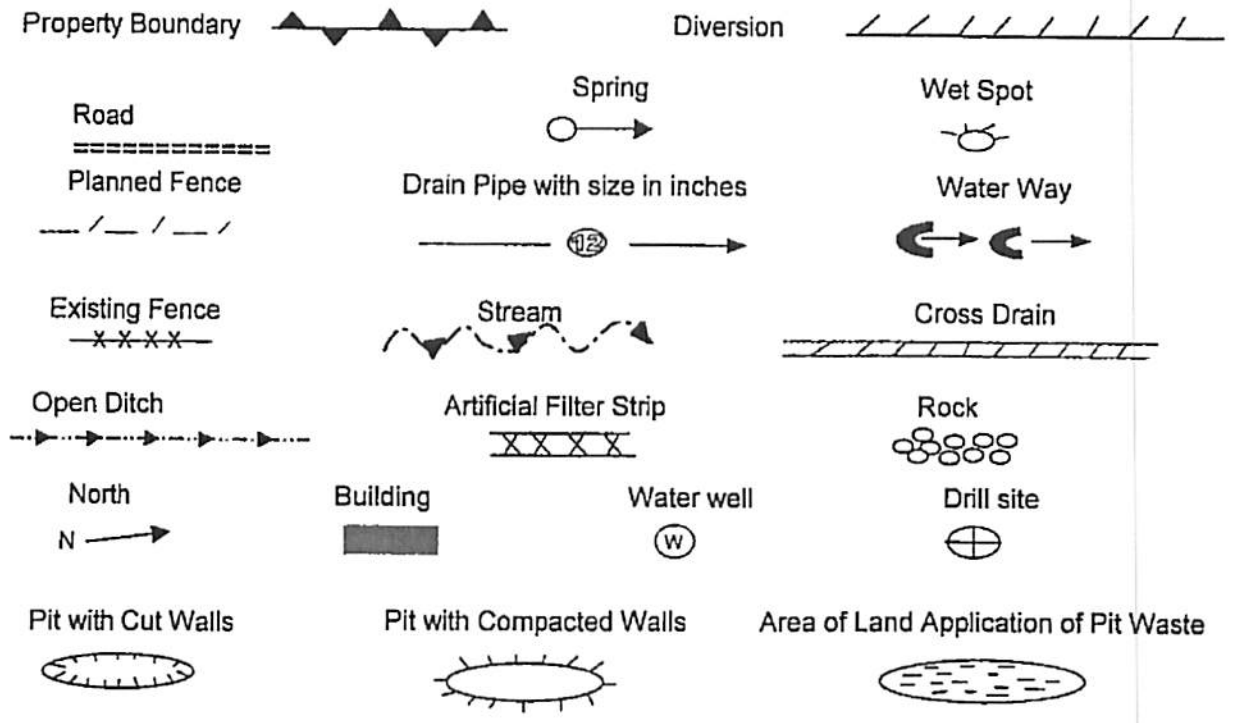
Received
Office of Oil & Gas

MAR 12 2015

04/24/2015

OPERATOR'S WELL NO.:
654846 (A. B. Balley #1184)

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: Barry Stiller

Comments: _____

Title: Inspector Date: 3-20-15
 Field Reviewed? Yes No

4102416P

Topo Quad: Vadis 7.5'

Scale: 1" = 2000'

County: Lewis

Date: November 18, 2014

District: Freemans Creek

Project No: 73-12-00-08

47-041-02416 WV 654846 (A. B. Bailey #1184)

Topo



NAD 27, South Zone
 N: 735,030.22
 E: 2,089,738.49
 WGS 84
 LAT: 39.018169
 LONG: -80.684007
 ELEV: 1119.50



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

04/24/2015

4102416P

WW-7
8-30-06



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

API: 47-041-02416 WELL NO.: WV 654846 (A. B. Bailey #1184)

FARM NAME: A. B. Bailey

RESPONSIBLE PARTY NAME: EOT Production Company

COUNTY: Lewis DISTRICT: Freemans Creek

QUADRANGLE: Vadis 7.5'

SURFACE OWNER: Raymond and Marjory Golden

ROYALTY OWNER: Clay M. Bailey, et al.

UTM GPS NORTHING: 4318840

UTM GPS EASTING: 527355 GPS ELEVATION: 341 m (1120 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

Received
Office of Oil & Gas
MAR 12 2015

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 O. Brown
Signature

PS # 2180
Title

12/26/14
Date

04/24/2015



POTENTIAL WATER SAMPLE DATA SHEET

CLIENT: EQT PRODUCTION COMPANY
LEASE NAME AND WELL No. A. B. Bailey #1184 - WV 654846 - API No. 47-041-02416

POTENTIAL SAMPLE LOCATIONS

There appears to be no known water samples within the required 1000' of the existing well WV 654846.

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Office of Oil & Gas
MAR 12 2015

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

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 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

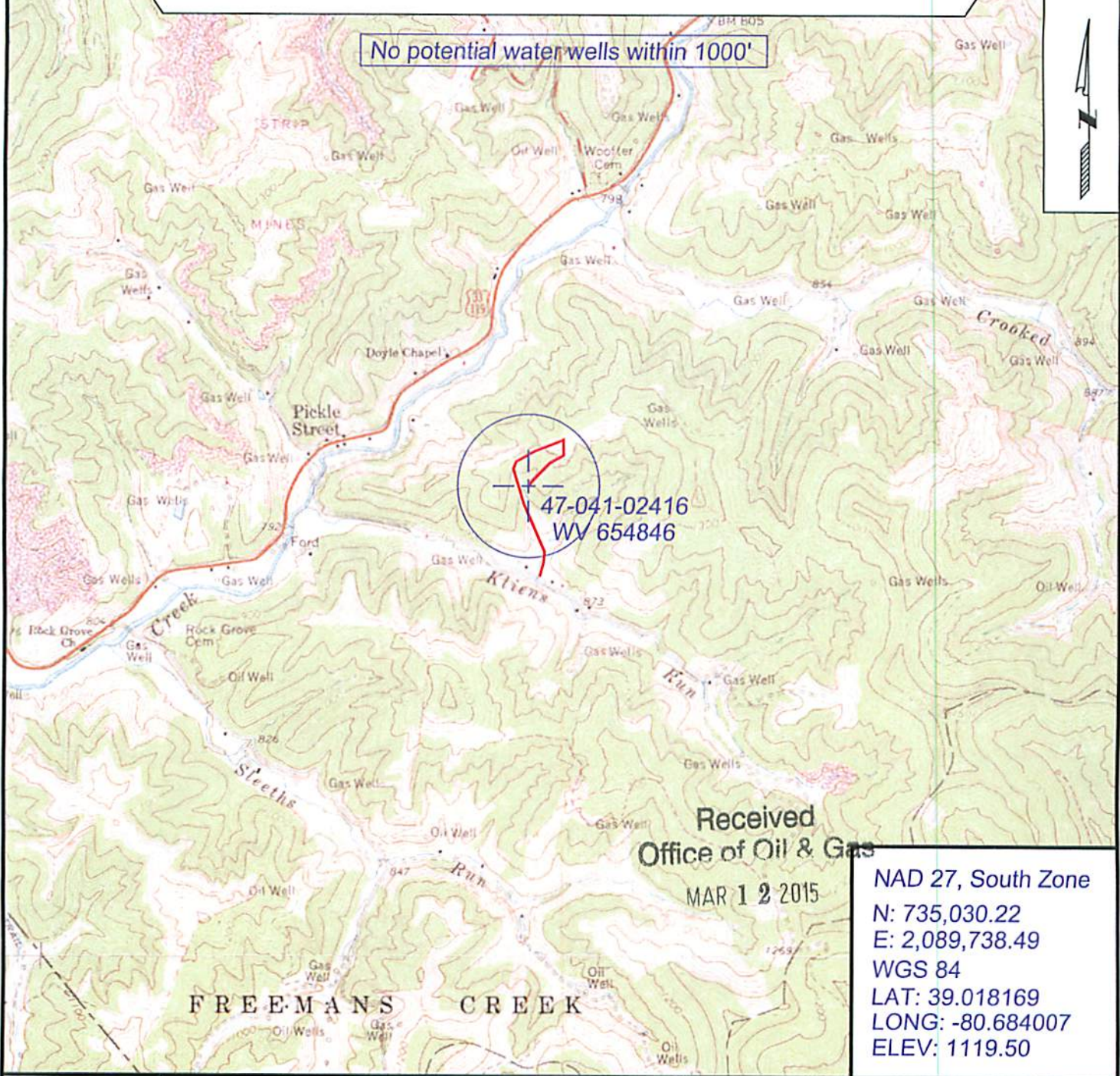
4102416A

Topo Quad: Vadis 7.5' Scale: 1" = 2000'
 County: Lewis Date: December 10, 2014
 District: Freemans Creek Project No: 73-12-00-08

Water

47-041-02416 WV 654846 (A. B. Bailey #1184)

No potential water wells within 1000'



Received
 Office of Oil & Gas
 MAR 12 2015

NAD 27, South Zone
 N: 735,030.22
 E: 2,089,738.49
 WGS 84
 LAT: 39.018169
 LONG: -80.684007
 ELEV: 1119.50

FREEMANS CREEK



SURVEYING AND MAPPING SERVICES PERFORMED BY:
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1-800-482-8606
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 Birch River, WV 26610
 PH: (304) 649-8606
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PREPARED FOR:

EQT Production Company
 P.O. Box 280
 Bridgeport, WV 26330

04/24/2015