



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

March 16, 2015

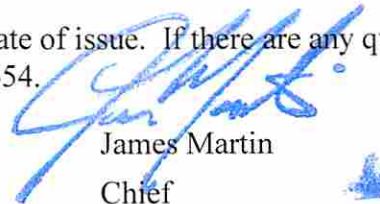
WELL WORK PLUGGING PERMIT

Plugging

This permit, API Well Number: 47-4102413, 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: 1056
Farm Name: BAILEY, J. H.
API Well Number: 47-4102413
Permit Type: Plugging
Date Issued: 03/16/2015

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.

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

Date: February 4, 2015
Operator's Well
Well No. 654051 (J. H. Bailey #1056)
API Well No.: 47 041 - 02413

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

CK 18790
100⁰⁰

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: 776 ft. Watershed: Leading Creek
Location: Freemans Creek County: Lewis Quadrangle: Vadis
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 Barry Stollings
Name: 28 Conifer Drive
Address: Bridgeport, WV 26330

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 Barry Stollings Date 2-17-15

PLUGGING PROGNOSIS –Weston

Bailey # 1056 (654051)

Lewis Co., West Virginia

API # 47-041-02413

Dist: Courthouse

BY: Craig Duckworth

DATE: 1/6/15

CURRENT STATUS:

10" csg @ 153' (pulled)
 8 1/4" csg @ 762'
 6 5/8" csg @ 1398'
 3" tbg @ 1468'

TD @ 1468'

Fresh Water @ None reported

Salt Water @ None reported

1st Salt Sand @ 945'

Coal @ None reported

Gas Shows @ 708', Big Dunkard ; 1433, Big Injun

Oil Shows @ None reported

Stimulation: None reported

Elevation: 776'

1. Notify State Inspector, Barry Stollings 304-552-4194, 24 hrs. Prior to commencing operations.
- 2^{1st} Attempt to pull 3" csg. Free Point 3", cut 3" @ free point, TOOH w/ 3" csg 2"
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 @ 1468'; Set 120' C1A Cement Plug @ 1468' to 1348' (Gas Shows @ 1433', Big Injun & 6 5/8" csg seat)
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 @ 1348'; gel hole @ 1348' to 945'
7. TOOH w/ tbg, Free Point 8 1/4", cut 8 1/4" @ free point, TOOH w/ 8 1/4" csg
8. 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
9. TIH w/ tbg @ 945'; Set 333' C1A Cement Plug @ 945' to 612' (1st Salt Sand @ 945' & 8 1/4" csg @ 762)
10. TOOH w/ tbg @ 612'; gel hole @ 612' to 200'.
11. TOOH w/ tbg @ 200'; Set 200' C1A Cement Plug @ 200' to Surface (10" csg @ 153')
12. Top off as needed
13. Set Monument to WV-DEP Specifications
14. Reclaim Location & Road to WV-DEP Specifications

OL
F. W. M.RECEIVED
Office of Oil and Gas

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WV Department of
Environmental Protection

03/20/2015

654051

CARNEGIE

WAS COMP NY

402413P

Map Sheet No. *VA015 S.W.* RECORD OF WELL Well No. *77*
 Drilled on *Jan 1921* Farm of *J. M. Bailey* Acres *1.50*
Francisco Township *Franklin* County Lease No. *77*
 Shipping Point District Foreman
 R I G W E L L

Located *Feb 19 1921* Commenced Drilling *April 28*
 Notified Gen'l Office Notified Gen'l Office
 Commenced *April 14 1921* Completed Drilling *May 21*
 Completed *April 20 1921* Notified Gen'l Office
 Contractor *W. H. Stewart* Contractor *C. H. McLaughlin*
 Address *W. H. Stewart* Address

ROCK FORMATION	TOP	BOTTOM	REMARKS	PRESSURE AND VOLUME
Conductor	<i>25.72</i>			1/2 Minute <i>110</i>
Mapleton Coal				1 " <i>160</i>
Pittsburgh Coal				2 " <i>240</i>
Little Dunkard	<i>338</i>	<i>376</i>		3 " <i>285</i>
Big Dunkard	<i>375</i>	<i>815</i>	<i>Gas at 708</i>	4 " <i>310</i>
Gas Sand				15 " <i>320</i>
1st Salt Sand	<i>945</i>	<i>965</i>		10 " <i>350</i>
2nd Salt Sand	<i>975</i>	<i>1130</i>		15 " <i>380</i>
<i>Plateau Chalk</i> Maxton Sand	<i>1130</i>	<i>1210</i>		30 " <i>435</i>
Little Lime	<i>1320</i>	<i>1345</i>		11 Hour
<i>Residual</i> Pencil Cave	<i>1345</i>	<i>1348</i>		1 Rock <i>710</i>
Big Lime	<i>1566</i>	<i>1417</i>		Size of Tubing <i>3</i>
Big Injun	<i>1423</i>		<i>Gas at 1435 to 1442</i>	Size of Casing
Gantz Sand				Vol. of Water
50 Foot Sand				Mercury
30 Foot Sand				Pressure
Gordon Stray				
Gordon Sand				CONNECTED TO MAIN
4th Sand				<i>rod 14 - 180</i>
5th Sand				Length of Line <i>180</i>
Bayard Sand				Size of Line <i>2</i>
Elizabeth				DISCONNECTED FROM
Speechley				
Bradford				Notified Lesson

Total Depth *1468* Feet at \$ *5* per Foot

Gas Furnished at *5* Cents per Foot

CASING RECORD

SIZE	CHARGED TO WELL		PUT IN WELL		PULLED		LEFT IN WELL		TRANSFERRED		LEFT AT WELL		BACKER
	Feet	In.	Feet	In.	Feet	In.	Feet	In.	Feet	In.	Feet	In.	
<i>10"</i>	<i>245</i>	<i>2</i>	<i>153</i>		<i>153</i>						<i>545</i>	<i>2</i>	Kind <i>Standard</i>
<i>8 1/4"</i>	<i>1002</i>	<i>11</i>	<i>753</i>	<i>4</i>			<i>762</i>	<i>4</i>			<i>549</i>	<i>7</i>	Size <i>2 1/2</i>
<i>6 3/8"</i>	<i>1294</i>	<i>7</i>	<i>1398</i>				<i>1398</i>				<i>596</i>	<i>7</i>	Size <i>2 1/8</i>
<i>80</i> <i>2"</i>	<i>1679</i>		<i>1468</i>				<i>1468</i>				<i>211</i>		Size <i>2 1/8</i>

Casing Cemented in Well by

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Environmental Protection

1) Date: February 4, 2015
2) Operator's Well Number
654051 (J. H. Bailey #1056)
3) API Well No.: 47 041 - 02413
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 James and Catherine Bailey
Address 102 Sleeth Run Road
Linn, WV 26384
(b) Name _____
Address _____
(c) Name _____
Address _____
6) Inspector Barry Stollings
Address 28 Conifer Drive
Bridgeport, WV 26330
Telephone (304) 552-4194

5) (a) Coal Operator:
Name None
Address _____
(b) Coal Owner(s) with Declaration
Name James and Catherine Bailey
102 Sleeth Run Road
Address Linn, WV 26384
(c) Coal Lessee with Declaration
Name None
Address _____

TO THE PERSONS NAMED ABOVE: You should have received this Form and the following documents:

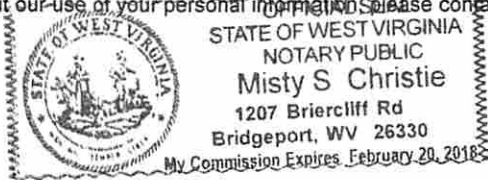
- (1) The application to Plug and Abandon a Well on Form WW-4B, which sets out the parties involved in the work and describes the well its and the plugging work order; and
 - (2) The plat (surveyor's map) showing the well location on Form WW-6.
- The reason you received these documents is that you have 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.

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

Subscribed and sworn before me this 4th day of February, 2015
Misty S. Christie Notary Public
My Commission Expires: 2/20/13

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.

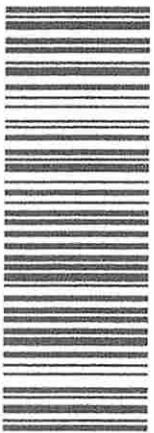


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WV Department of Environmental Protection

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Total Postage		

Sent To: James and Catherine Bailey
 102 Sleeth Run Road
 Linn, WV 26384 ✓

City, State, ZIP+4: Plugging Permit 654015 (J. H. Bailey #1056)

PS Form 3800, August 2006 See Reverse for Instructions

2. Article Number
 PS Form 3811, July 2013
 (Transfer from service label)
 7014 0150 0001 0654 7603
 Domestic Return Receipt

3. Service Type
 Certified Mail®
 Priority Mail Express™
 Registered
 Insured Mail
 Return Receipt for Merchandise
 Collect on Delivery

4. Restricted Delivery? (Extra Fee)
 Yes
 No

James and Catherine Bailey
 102 Sleeth Run Road
 Linn, WV 26384
 Plugging Permit 654015 (J. H. Bailey #1056)

03/20/2015

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Barry Stollings
28 Conifer Drive
Bridgeport, WV 26330

03/20/2015

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STATE OF WEST VIRGINIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL & GAS
CONSTRUCTION AND RECLAMATION PLAN AND SITE REGISTRATION APPLICATION FORM
GENERAL PERMIT FOR OIL AND GAS PIT WASTE DISCHARGE

Operator Name: EQT PRODUCTION COMPANY OP ID: _____
Watershed: Leading Creek Quadrangle: Vadis
Elevation: 776 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.? 40 ml - 20 ml

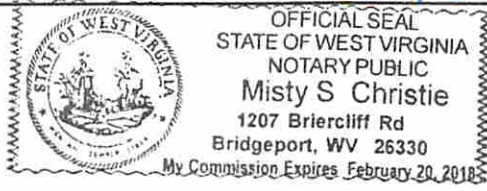
Proposed Disposal Method for Treated Pit Wastes:
X Land Application
____ Underground Injection - UIC Permit Number _____
____ Reuse (at API Number) _____
____ Offsite Disposal Permit #. _____
____ Other: Explain _____

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 2nd day of February, 2015
Misty S. Christie Notary Public
My Commission Expires 2/20/18



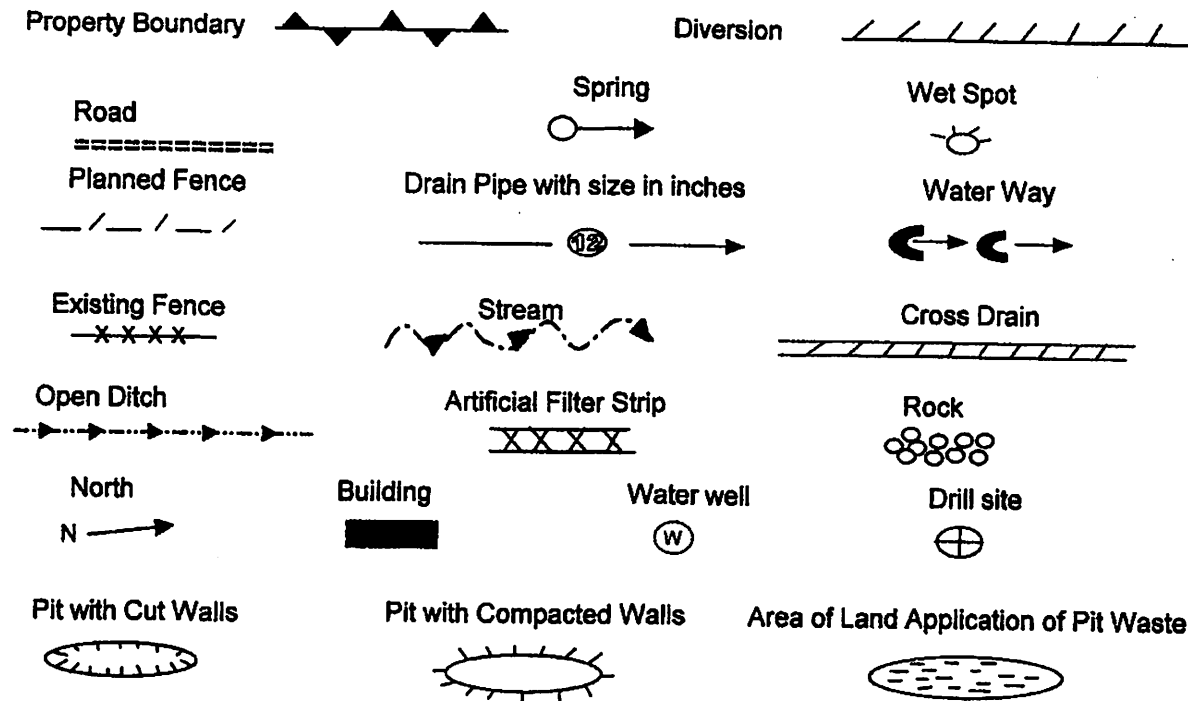
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OPERATOR'S WELL NO.:
654051 (J. H. Bailey #1059)

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 Stull

Comments: _____

Title: Inspector Date: 2-17-15

Field Reviewed? Yes No

Topo Quad: Vadis 7.5'

Scale: 1" = 2000'

County: Lewis

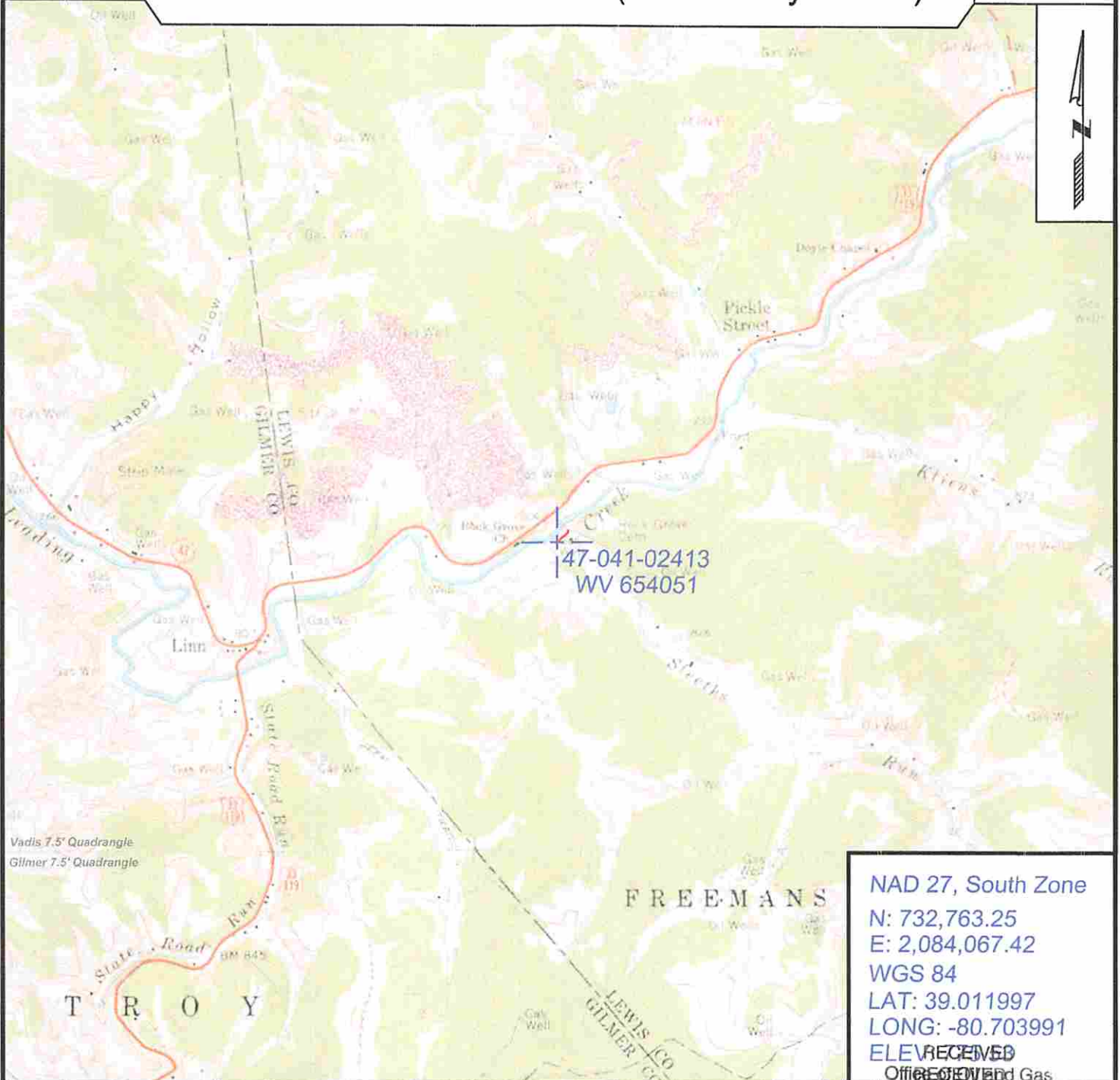
Date: January 26, 2015

District: Freemans Creek

Project No: 73-12-00-08

47-041-02413 WV 654051 (J. H. Bailey #1056)

Topo



47-041-02413
WV 654051

NAD 27, South Zone
 N: 732,763.25
 E: 2,084,067.42
 WGS 84
 LAT: 39.011997
 LONG: -80.703991
 ELEVATION: 1056
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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
 FEB 05 2015
EQT Production Company
 P.O. Box 280
 Bridgeton, WV 26330
 Department of Environmental Protection
 Environmental Protection
 03/20/2015

WW-7
8-30-06



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

API: 47-041-02413 WELL NO.: WV 654051 (J. H. Bailey #1056)

FARM NAME: J. H. Bailey

RESPONSIBLE PARTY NAME: EQT Production Company

COUNTY: Lewis DISTRICT: Freemans Creek

QUADRANGLE: Vadis 7.5'

SURFACE OWNER: James and Catherine Bailey

ROYALTY OWNER: James G. and Catherine N. Bailey, et al.

UTM GPS NORTHING: 4318150

UTM GPS EASTING: 525628 GPS ELEVATION: 236 m (776 ft)

The Responsible Party named above has chosen to submit GPS coordinates in lieu of preparing a new well location plat for a plugging permit or assigned API number on the above well. The Office of Oil and Gas will not accept GPS coordinates that do not meet the following requirements:

- Datum: NAD 1983, Zone: 17 North, Coordinate Units: meters, Altitude: height above mean sea level (MSL) – meters.
- Accuracy to Datum – 3.05 meters
- Data Collection Method:
Survey grade GPS : Post Processed Differential
Real-Time Differential
Mapping Grade GPS X: Post Processed Differential X
Real-Time Differential

4. **Letter size copy of the topography map showing the well location.**

I the undersigned, hereby certify this data is correct to the best of my knowledge and belief and shows all the information required by law and the regulations issued and prescribed by the Office of Oil and Gas.

Signature

PS # 2180
Title

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1/20/15
Date
WV Department of
Environmental Protection

03/20/2015



POTENTIAL WATER SAMPLE DATA SHEET

CLIENT: EQT PRODUCTION COMPANY
 LEASE NAME AND WELL No. J. H. Bailey #1056 WV 654051 (47-041-02413)

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: 199' +/- Owner: James G. Bailey
 Address: 102 Sleeth Run, Linn, WV 26364 Phone No. 304-269-6523
 Comments:

Site: 2 Spacing: 867' +/- Owner: Lynn Riley
 Address: 14361 US Hwy 33 W, Alum Creek, WV 26321 Phone No. 304-997-8098
 Comments:

Site: 3 Spacing: 1010' +/- Owner: Lynn Riley
 Address: 14361 US Hwy 33 W, Alum Creek, WV 26321 Phone No. 304-997-8098
 Comments:

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 25438
 phone: 304-756-2949
 fax: 304-756-2948

RANSON OFFICE
 P.O. Box 108 • 1413 Childress Rd
 Ranson, WV 25438
 phone: 304-724-5008
 fax: 304-724-5010

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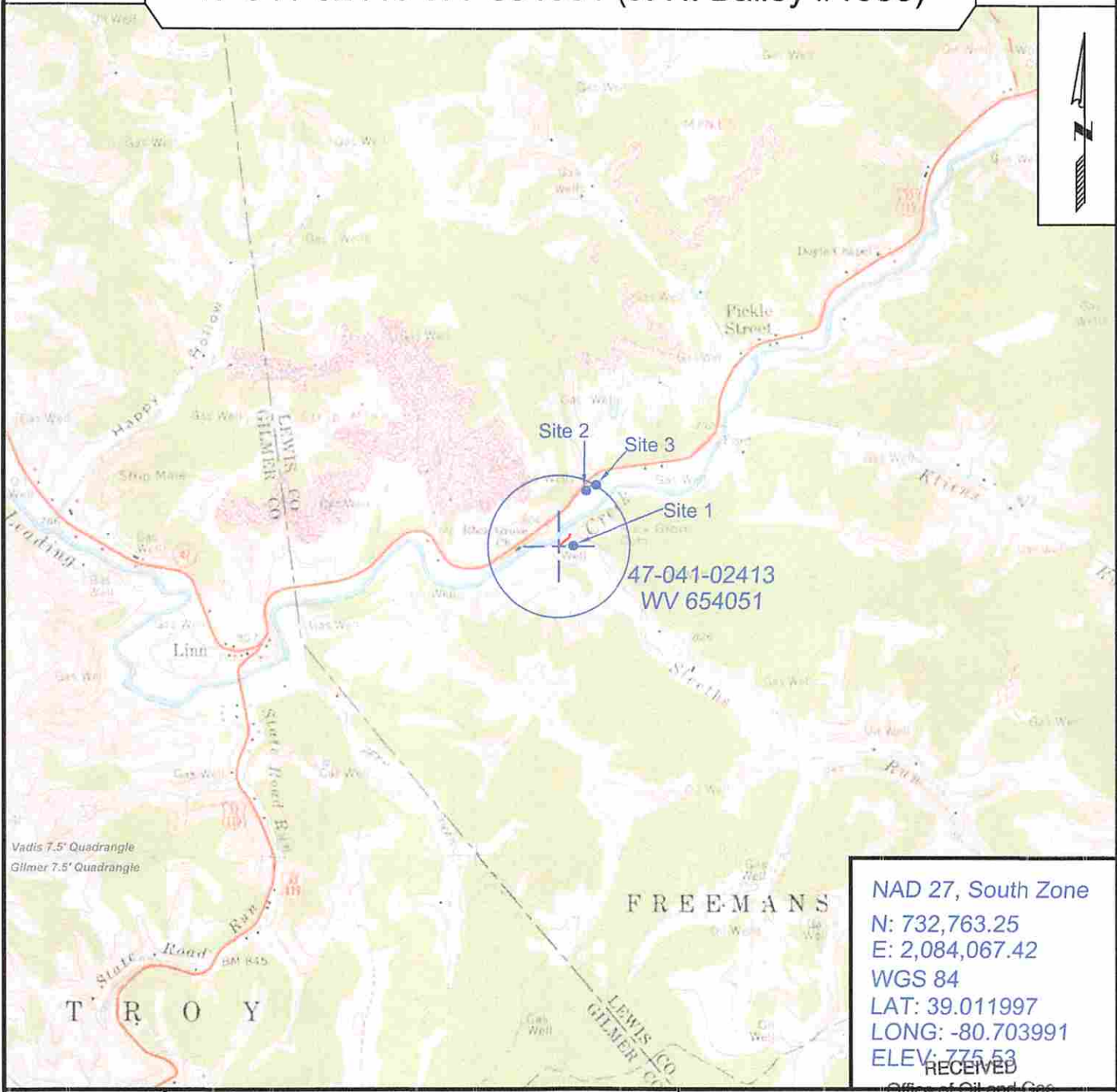
Topo Quad: Vadis 7.5' Scale: 1" = 2000'

County: Lewis Date: January 26, 2015

District: Freemans Creek Project No: 73-12-00-08

Water

47-041-02413 WV 654051 (J. H. Bailey #1056)



NAD 27, South Zone
 N: 732,763.25
 E: 2,084,067.42
 WGS 84
 LAT: 39.011997
 LONG: -80.703991
 ELEV: 775.53
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PREPARED FOR:
EQT Production Company
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 P.O. Box 280
 Bridgeport, WV 26330
 West Virginia Department of Environmental Protection
03/20/2015