



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

February 25, 2015

WELL WORK PLUGGING PERMIT

Plugging

This permit, API Well Number: 47-1702097, 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: 4953
Farm Name: HARPER
API Well Number: 47-1702097
Permit Type: Plugging
Date Issued: 02/25/2015

Promoting a healthy environment.

02/27/2015

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.

170 2097P

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

Date: January 7, 2015
Operator's Well _____
Well No. 604953 (Fannie Harper #4953)
API Well No.: 47 017 - 02097

CK 18875
\$ 100.00

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

APPLICATION FOR A PERMIT TO PLUG AND ABANDON

4) Well Type: Oil _____ Gas X Liquid Injection _____ Waste Disposal: _____
If Gas, Production _____ X Or Underground storage _____ Deep _____ Shallow X

5) Elevation: 1198 ft Watershed: Jockeycamp Rn. Of Middle Island Ck. Of Ohio R.
Location: West Union County: Doddridge Quadrangle: Smithburg
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 Douglas Newlon
Name: 4060 Dutchman Road
Address: Macfarlan, WV 26148

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

10) Work Order: The work order for the manner of plugging this well is as follows:
See Attachment for details and procedures.

Received
Office of Oil & Gas
JAN 12 2015

Oil gwm

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 _____

02/27/2015

PLUGGING PROGNOSIS - Weston

Harper, Fannie #4953 (604953)

Doddridge Co., West Virginia

API # 47-017-02097

Quad: West Union

BY: Craig Duckworth

DATE: 10/27/14

CURRENT STATUS:

10" csg @ 300' (pulled)
 8 1/4" csg @ 1100' (pulled)
 6 5/8" csg @ 1940'
 5 3/16" csg @ 1993'
 2" tbg @ 2709' (Packer @ 2495')

TD @ 2709' (hole size 5 3/16")

Fresh Water @ None reported

Salt Water @ None reported

1st Salt Sand @ 1418'

Coal @ 625'-629'

Gas Shows @ 2695' (Gordon Sand)

Oil Shows @ None reported

Stimulation: None reported

Elevation: ~~7777~~ 1199

1. Notify State Inspector, Douglas Newlon 304-932-8049, 24 hrs. Prior to commencing operations.
2. Attempt to pull 2" tbg & packer. Check TD.
3. TIH w/ tbg @ 2709'; Set 100' C1A Cement Plug @ 2709' to 2609' (Gas Shows @ 2695' Gordon Sand)
4. TOOH w/ tbg @ 2609'; gel hole @ 2609' to 2043'
5. TOOH w/ tbg, Free Point 5 3/16" & 6 5/8", cut 5 3/16" & 6 5/8" @ free point, TOOH w/ 5 3/16" & 6 5/8" csg
6. TIH w/ tbg @ 2043'; Set 153' C1A Cement Plug @ 2043' to 1890' (5 3/16" & 6 5/8" csg cut)
7. Set a 100' C1A Cement Plug 50' In/Out of cut. Perf all FW, Coal, Oil and Gas shows below 5 3/16" & 6 5/8" cut. Do not omit any plugs
8. TOOH w/ tbg @ 1890'; gel hole @ 1890' to 1418'
9. TOOH w/ tbg @ 1418'; Set 100' C1A Cement Plug @ 1418' to 1318' (Salt Sand @ 1418')
10. TOOH w/ tbg @ 1318'; gel hole @ 1318' to 1150' *Elevation 1109 1248 TO 1148*
11. TOOH w/ tbg @ 1150'; Set 185' C1A Cement Plug @ 1150' to 1050' (8 1/4" csg seat @ 1100')
12. TOOH w/ tbg @ 1050'; gel hole @ 1050' to 680'.
13. TOOH w/ tbg @ 680'; Set 100' C1A Cement Plug @ 680' to 580 (safety plug)
14. TOOH w/ tbg @ 580'; gel hole @ 580' to 300'.
15. TOOH w/ tbg @ 300'; Set 300' C1A Cement Plug @ 300' to Surface (10" csg @ 300' pulled)
16. Top off as needed
17. Set Monument to WV-DEP Specifications
18. Reclaim Location & Road to WV-DEP Specifications

DCW
 1-27-2015

1702097P

EASTERN UNION GAS CO. COMPANY

Harper, Fannie # 4953 604953 47-011-02097

Record of Well No. **7953** Located on **Fannie Harper** Farm
 West Union District **Doddridge** County **West Va.** State
 Division **"F"** District No. Drilled under Well Order
 Rig built by Began 19 Completed 19
 Well drilled by **John Bolivin** Began 19 Completed 19
 Depth of Well **2709** feet Size of Hole **6-3/16** Producing **"Gas"**

CASED WITH			REMARKS
AMOUNT	SIZE	KIND	
300'	10"		All pulled out. " " " " " " " " " " " "
1100'	8 1/4"		
1940'	6-5/8"		
1993'	5-3/16"		
2709'	2"		
			Packer set 214 feet from bottom of hole in Fifty Foot Sand.

COAL VEINS

FORMATIONS

NAME	TOP	BOTTOM	OIL	GAS	WATER	REMARKS
Maxson Sand	1720	1790				
Blue Monday	None					
Big Lime	1940	2035				
Big Injun	2035	2110				
Squaw Sand	2115	2170				
Berea Grit	2420	2435				
Fifty Foot	2478	2498				
Thirty Foot	2560	2580				
Gordon Stray	2677	2690				
Gordon Sand	2693	2700		2695		6/10 M 6-5/8" Gasg.

Received
 Office of Oil & Gas
 JAN 12 2015

02/27/2015

1702097P

WW-4-A
Revised 6/07

1) Date: January 7, 2015
2) Operator's Well Number
604953 (Fannie Harper #4953)
3) API Well No.: 47 017 - 02097
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

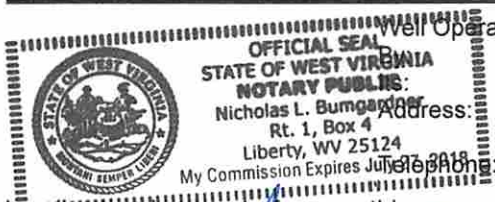
4) Surface Owner(s) to be served:
(a) Name Chad Johnson
Address 109 Platinum Dr., S.E.
Bridgeport, WV 26330
(b) Name _____
Address _____
(c) Name _____
Address _____
6) Inspector Douglas Newlon
Address 4060 Dutchman Road
Macfarlan, WV 26148
Telephone (304) 932-8049

5) (a) Coal Operator:
Name None
Address _____
(b) Coal Owner(s) with Declaration
Name Seventh Day Baptist Church of Salem
Attn: Treasurer
Address 171 E. Main Street
Salem, WV 26426-1325
Name _____
Address _____
(c) Coal Lessee with Declaration
Name None
Address _____

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

- (1) The application to Plug and Abandon a Well on Form WW-4B, which sets out the parties involved in the work and describes the well its and the plugging work order; and
 - (2) The plat (surveyor's map) showing the well location on Form WW-6.
- The reason you received these documents is that you have rights regarding the application which are summarized in the instructions on the reverses side. However, you are not required to take any action at all.

Take notice that under Chapter 22-6 of the West Virginia Code, the undersigned well operator proposes to file or has filed this Notice and Application and accompanying documents for a permit to plug and abandon a well with the Chief of the Office of Oil and Gas, West Virginia Division of Environmental Protection, with respect to the well at the location described on the attached Application and depicted on the attached Form WW-6. Copies of this Notice, the Application, and the plat have been mailed by registered or certified mail or delivered by hand to the person(s) named above (or by publication in certain circumstances) on or before the day of mailing or delivery to the Chief.



Well Operator: _____
Subscribed and sworn before me this 9 day of JANUARY, 2015
My Commission Expires: 7/17/2018

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

[Handwritten Signature]

Received
Office of Oil & Gas
JAN 12 2015

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.

02/27/2015

1702097P

FIRST CLASS MAIL
\$09.75
01/09/2015
US POSTAGE
ZIP 26330
04411022680



7014 0150 0001 0654 4657
7014 0150 0001 0654 4657

U.S. Postal Service™
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For delivery information visit our website at www.usps.com

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

Postmark Here

Sent To: Seventh Day Baptist Church of Salem
Attn: Treasurer
171E. Main Street
Salem, WV 26426-1325
City, S: 604953(Fannie Harper #4953)

SENDER: COMPLETE THIS SECTION

- Complete items 1, 2, and 3. A item if Restricted Delivery is so that we can return the card so that we can return the card or on the front if space permits

1. Article Addressed to:

Seventh Day Baptist Church
Attn: Treasurer
171E. Main Street
Salem, WV 26426-1325

604953(Fannie Harper #4953)

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)

7014 0150 0001 0654 4657

PS Form 3811, July 2013

Domestic Return Receipt

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

Received
Office of Oil & Gas

JAN 12 2015

02/27/2015

1702097P

CERTIFIED MAIL™



7014 0150 0001 0654 4640
7014 0150 0001 0654 4640

FIRST CLASS™
\$09.75
01/05/2015
ZEP 26330
041L102288

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

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

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

Sent To: Chad Johnson
109 Platinum Drive., S.E.
Bridgeport, WV 26330
604953(Fannie Harper #4953)

Postmark Here

SENDER: COMPLETE THIS SECTION

- Complete items 1, 2, and 3. Also item 4 if Restricted Delivery is desired.
- Print your name and address on so that we can return the card to you or on the front if space permits.

1. Article Addressed to:
Chad Johnson
109 Platinum Drive., S.E.
Bridgeport, WV 26330
604953(Fannie Harper #4953)

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

4. Restricted Delivery? (Extra Fee) Yes

2. Article Number (Transfer from service label)
7014 0150 0001 0654 4640

PS Form 3811, July 2013

Domestic Return Receipt

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

Received
Office of Oil & Gas

JAN 1 2 2015

02/27/2015

1702097P

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

Douglas Newlon
4060 Dutchman Road
Mactarian, WV 26148
604949 (John Coulehan #4949)
650771 (Jones & Blair #305)
604953 (Fannie Harper #4953)
121521 Maxwell D-3

Received
Office of Oil & Gas
JAN 12 2015

POSTNET
01/09/2015
US POSTAGE
FIRST CLASS MAIL
\$03.299
ZIP 26330
041110228892

02/27/2015

WW-9
Revised 2/03

Page _____ of _____
2) Operator's Well Number
604953 (Fannie Harper #4953)
3) API Well No.: 47 017 - 02097

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: Jockeycamp Rn. Of Middle Island Ck. Of Ohio R. Quadrangle: Smithburg
Elevation: 1198 ft County: Doddridge District: West Union

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 _____

DCN 1-27-2015

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 9 day of JANUARY, 2015

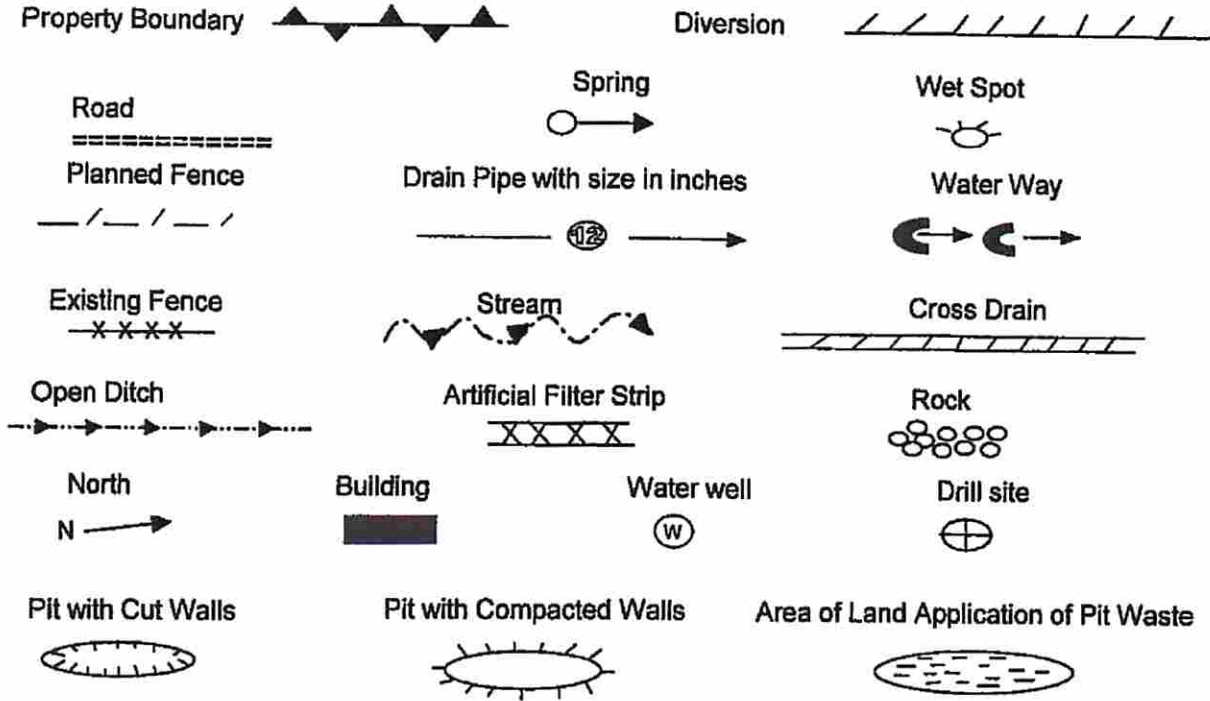
My Commission Expires 7/27/2018 Notary Public



02/27/2015

OPERATOR'S WELL NO.:
604953 (Fannie Harper #4953)

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		

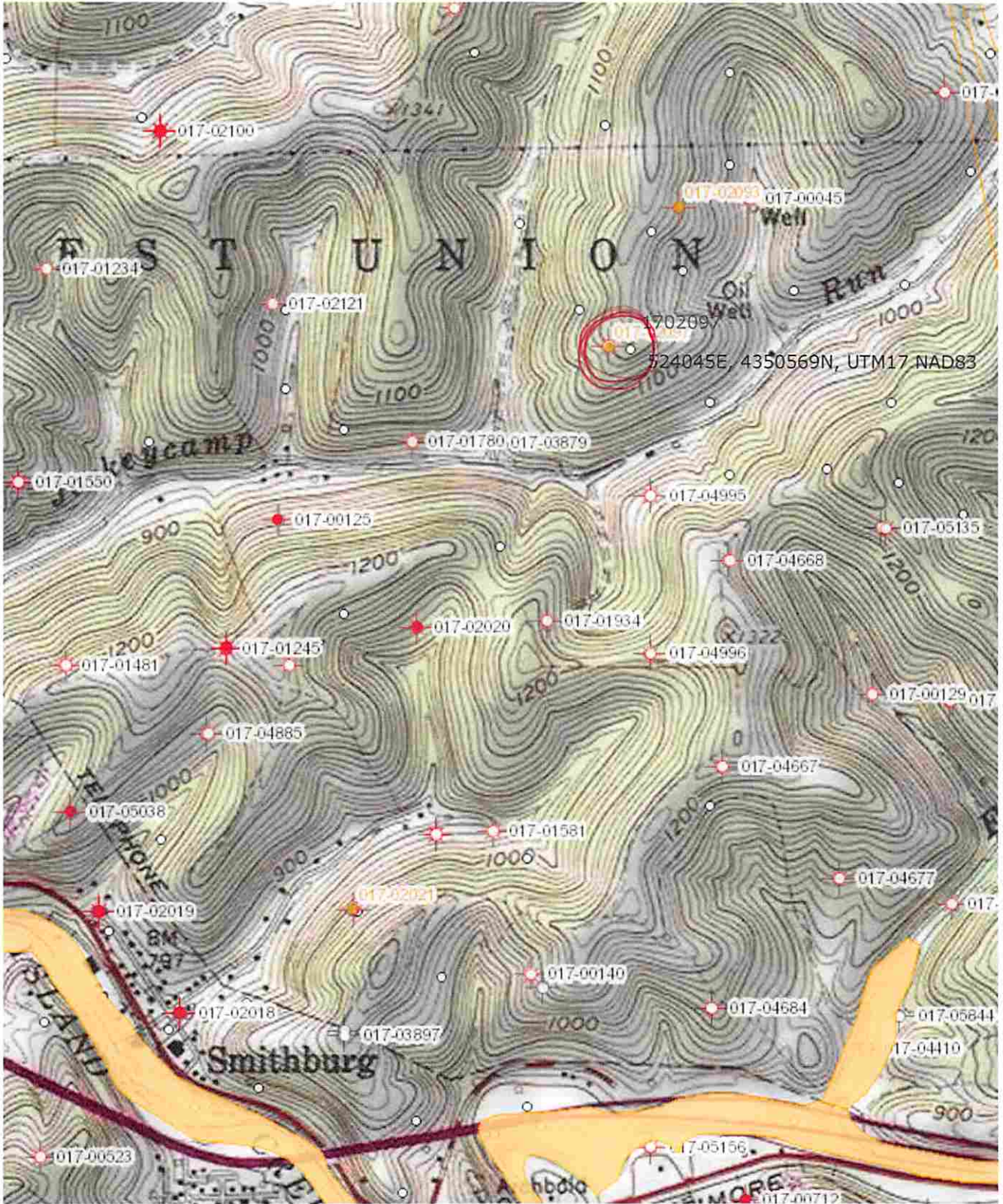
ATTACH:

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

Plan approved by: *Ronny Nelder*

Comments: Install ETS as required. Elevation Plug 1248 to 1148

Title: *Oil & Gas Inspector* Date: *1-27-2015*
 Field Reviewed? Yes No



02/27/2015

1702097P

Topo Quad: Smithburg 7.5'

Scale: 1" = 2000'

County: Doddridge

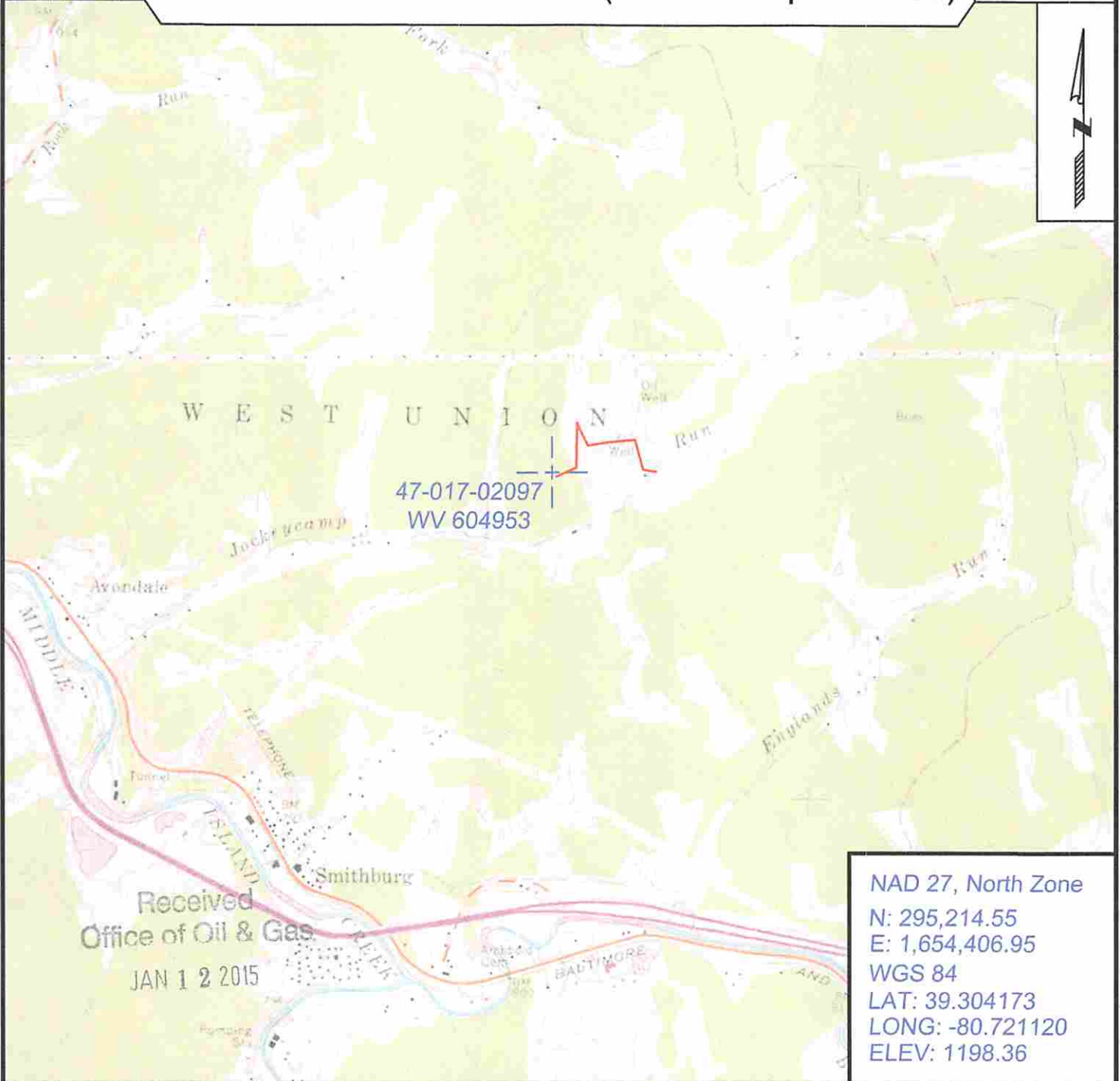
Date: November 4, 2014

District: West Union

Project No: 67-30-00-08

47-017-02097 WV 604953 (Fannie Harper #4953)

Topo



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

02/27/2015

1702097P

WW-7
8-30-06



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

API: 47-017-02097 WELL NO.: WV 604953 (Fannie Harper #4953)
FARM NAME: Fannie Harper
RESPONSIBLE PARTY NAME: EQT Production Company
COUNTY: Doddridge DISTRICT: West Union 8
QUADRANGLE: Smithburg 7.5' 611
SURFACE OWNER: Chad W. Johnson and L. W. Coulehan
ROYALTY OWNER: Phyllis J. Davis, et al.
UTM GPS NORTHING: 4350569
UTM GPS EASTING: 524045 GPS ELEVATION: 365 m (1198 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 _____

Received
Office of Oil & Gas
JAN 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'Brien Signature PS# 2180 Title 12/11/14 Date

02/27/2015



POTENTIAL WATER SAMPLE DATA SHEET

CLIENT: EOT PRODUCTION COMPANY
 LEASE NAME AND WELL No. Fannie Harper #4953 - WV 604953 - API No. 47-017-02097

POTENTIAL SAMPLE LOCATIONS

Site: 1 Spacing: 925 +/- Owner: Paul Dodd
 Address: 1362 Jockey Camp Run, West Union, WV 26456 Phone no. 304-873-2269
 Comments:

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 Office of Oil & Gas
 JAN 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

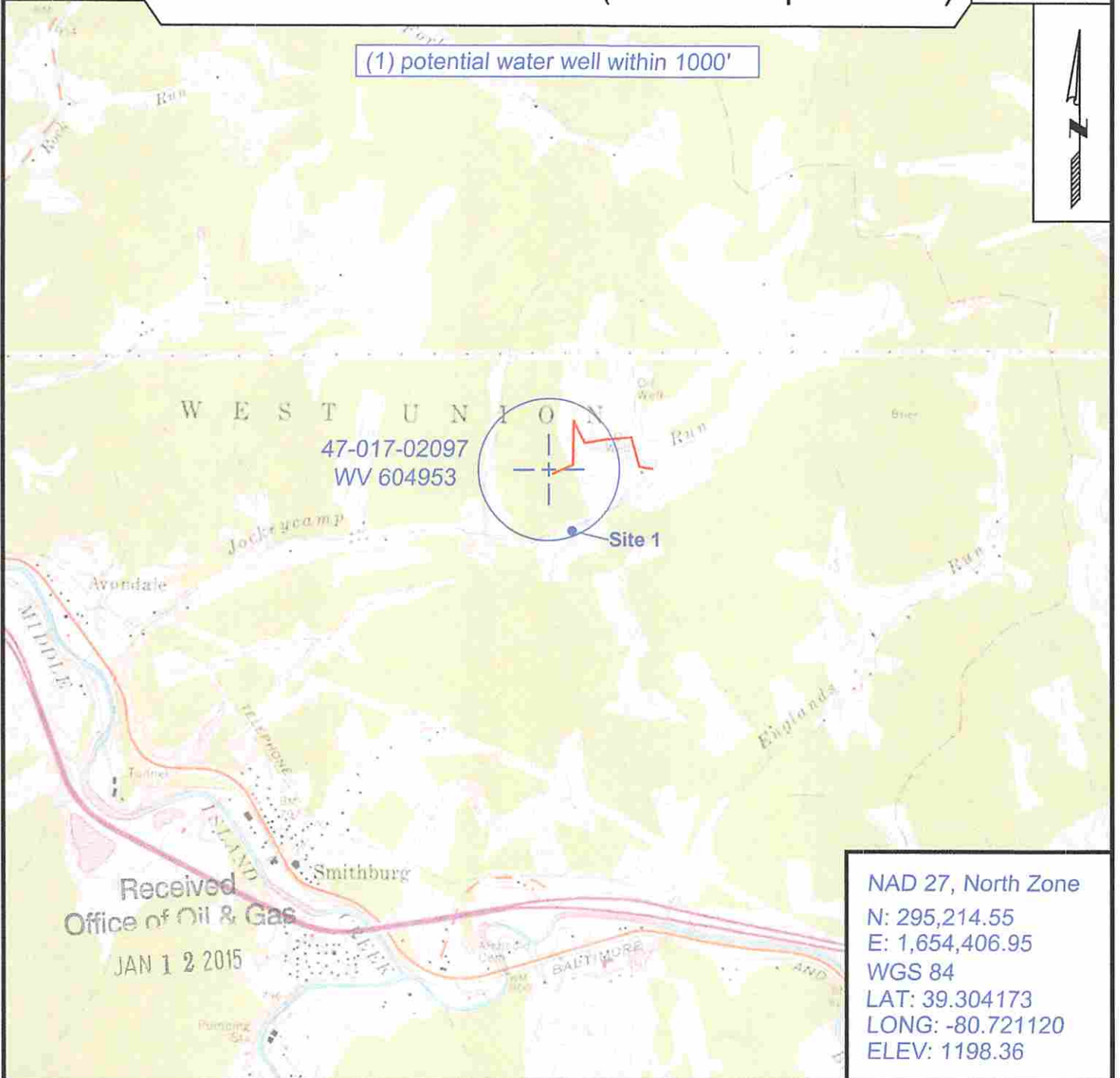
RANSON OFFICE
 401 South Fairfax Blvd, Suite 3
 Ranson, WV 25438
phone: 304-724-5008
fax: 304-724-5010

Topo Quad: Smithburg 7.5' Scale: 1" = 2000'
 County: Doddridge Date: November 4, 2014
 District: West Union Project No: 67-30-00-08

Water

47-017-02097 WV 604953 (Fannie Harper #4953)

(1) potential water well within 1000'



NAD 27, North Zone
 N: 295,214.55
 E: 1,654,406.95
 WGS 84
 LAT: 39.304173
 LONG: -80.721120
 ELEV: 1198.36



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

P.O. Box 280
 Bridgeport, WV 26330

02/27/2015