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 penalities 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

1702097P

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.

1702097P

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
$ 600.00

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
Address: 120 Professional Place
Bridgeport, WV 26330

7) Designated Agent: Rex C. Ray
Address: 120 Professional Place
Bridgeport, WV 26330

8) Oil & Gas Name: Douglas Newlon
Address: 4060 Dutchman Road
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

OK 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 _____

1702097P

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
1st Salt Sand @ 1418'
Gas Shows @ 2695' (Gordon Sand)
Oil Shows @ None reported
Stimulation: None reported
Elevation: ~~????~~ 1199

Salt Water @ None reported
Coal @ 625'-629'

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 Plug 1248 to 1148
11. TOOH w/ tbg @ 1150'; Set 185' C1A Cement Plug @ 1150' to 1050'(8 ¼" 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 47-017-02097

Record of Well No. 4953 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 5-3/16 Producing "Gas"

CASED WITH REMARKS

AMOUNT	SIZE	KIND	
300'	10"		All pulled out.
1100'	8¼"		" " "
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" Casg.

Received
Office of Oil & Gas
JAN 12 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 (State) 017 (County) - 02097 (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: **EQT Production Company**
By: **Victoria J.Roark**
Its: **Permitting Supervisor**
Address: **PO Box 280**
Bridgeport, WV 26330
Telephone: **(304) 848-0076**

OFFICIAL SEAL
STATE OF WEST VIRGINIA
NOTARY PUBLIC
Nicholas L. Bumgardner
Rt. 1, Box 4
Liberty, WV 25124
My Commission Expires July 27, 2018

Subscribed and sworn before me this 9 day of JANUARY, 2015

Notary Public

My Commission Expires: 7/27/2018

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.

EQT

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

Received
Office of Oil & Gas
JAN 12 2015

Postage
01/09/2015
US POSTAGE
$09.75

FIRST-CLASS MA

ZIP 26330
041L1022689

7014 0150 0001 0654 4657

7014 0150 0001 0654 4657

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Certified Fee
Return Receipt Fee (Endorsement Required)
Restricted Delivery Fee (Endorsement Required)
Postmark Here

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

SENDER: COMPLETE THIS SE

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

1. Article Addressed to:

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

604953(Fannie Harper #4953)

Agent
Addressee
of Delivery
Yes
No

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) 7014 0150 0001 0654 4657

PS Form 3811, July 2013 Domestic Return Receipt

1702078

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

Received
Office of Oil & Gas
JAN 12 2015

CERTIFIED MAIL™

7014 0150 0001 0654 4640
7014 0150 0001 0654 4640

neopost
01/09/2015
US POSTAGE
FIRST-CLASS M
$09.75
ZIP 26330
041L102288

U.S. Postal Service™
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Postage $
Certified Fee
Return Receipt Fee (Endorsement Required)
Restricted Delivery Fee (Endorsement Required)
Total P
Postmark Here

Sent To
Street, or PO E
City, St
PS Form

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

SENDER: COMPLETE THIS SE

- Complete items 1, 2, and 3. Als item 4 if Restricted Delivery is d
- Print your name and address on so that we can return the card t
- Attach this card to the back of th or on the front if space permits.

1. Article Addressed to:

Chad Johnson
109 Platinum Drive., S
Bridgeport, WV 2633

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 lat
7014 0150 0001 0654 4640

PS Form 3811, July 2013 Domestic Return Receipt

17020970

17020978

EQT

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

neopost
01/09/2015
US POSTAGE
FIRST-CLASS MAIL
$03.29
ZIP 26330
041L10228892

Douglas Newlon
4060 Dutchman Road
Macfarlan, WV 26148

604949 (John Coulehan #4949)

650771 (Jones & Blair #305)

604953(Fannie Harper #4953)
12152 MAXWELL D-3

Received
Office of Oil & Gas
JAN 12 2015

1702097P

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 If so, what ml.? ~~10 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 ____
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 ____
Company Official (Typed or Printed) Victoria Roark
Company Official Title Permitting Supervisor-WV
Subscribed and sworn before me this 9 day of January, 2015

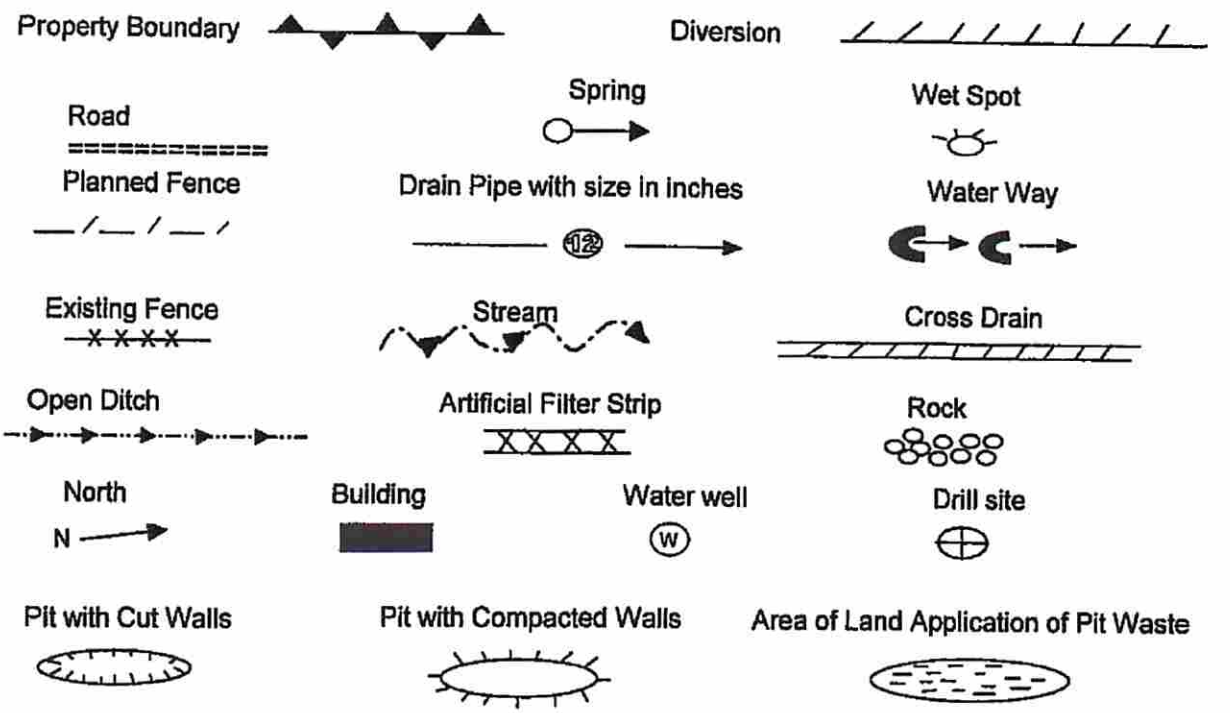
____ Notary Public
My Commission Expires 7/27/2018

OFFICIAL SEAL
STATE OF WEST VIRGINIA
NOTARY PUBLIC
Nicholas L. Bumgardner
Rt. 1, Box 4
Liberty, WV

1702097A

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.

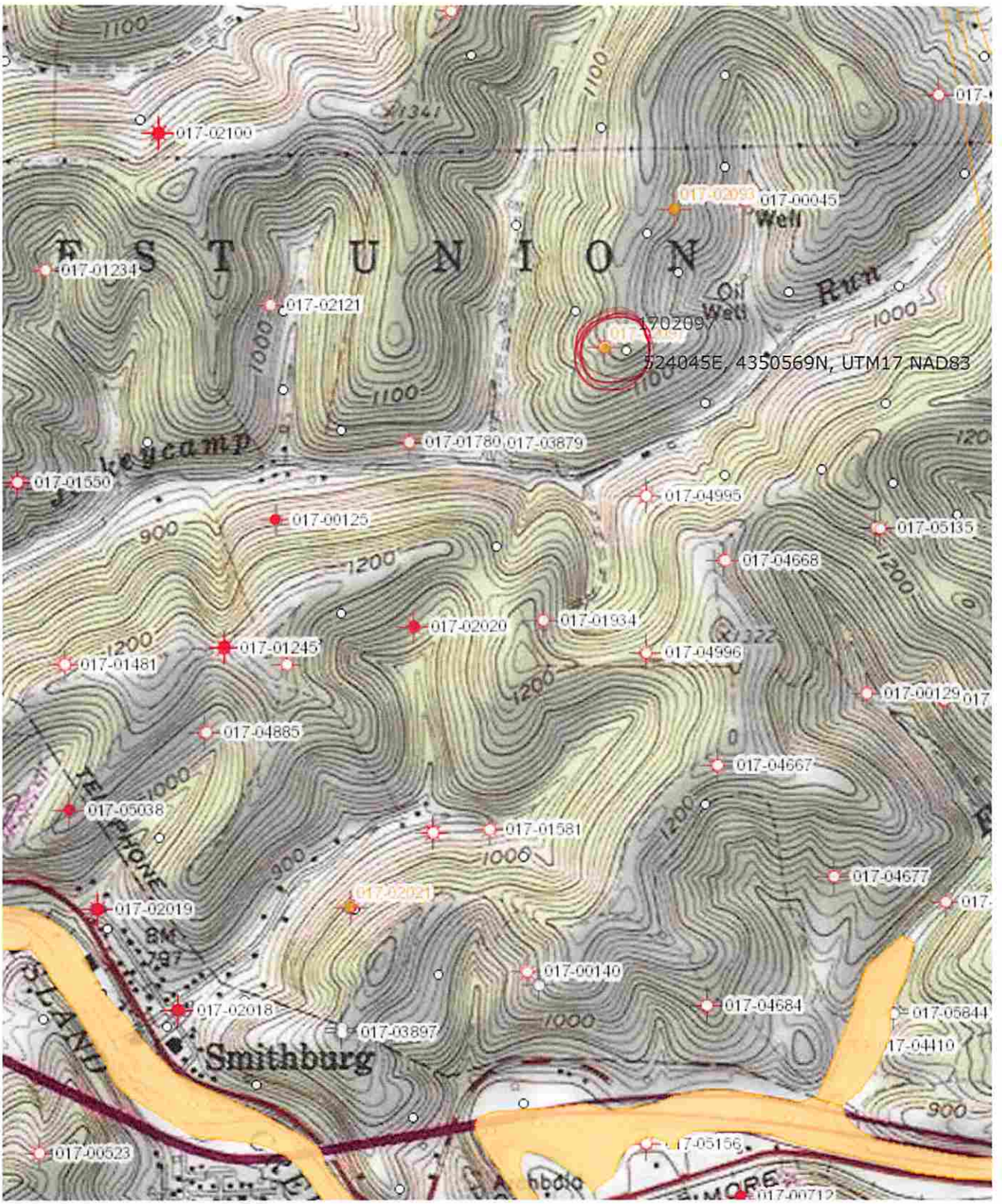
Plan approved by: Douglas Newlon

Comments: Install E+S as required. Elevation Plug 1248 to 1147

Title: Oil & Gas Inspector Date: 1-27-2015

Field Reviewed? _____ Yes ___ No

1702097P


017-02100
017-00045
Well
E S T U N I O N
017-01234
017-02121
Oil
Well
Run
1702097
524045E, 4350569N, UTM17 NAD83
017-01780
017-03879
017-01550
017-04995
017-00125
017-05135
017-04668
017-02020
017-01934
017-01245
017-01481
017-04996
017-00129
017-04885
017-04667
017-05038
017-01581
017-04677
017-02019
017-00140
017-02018
017-03897
017-04684
017-05844
017-04410
Smithburg
017-00523
017-05156

1702097P

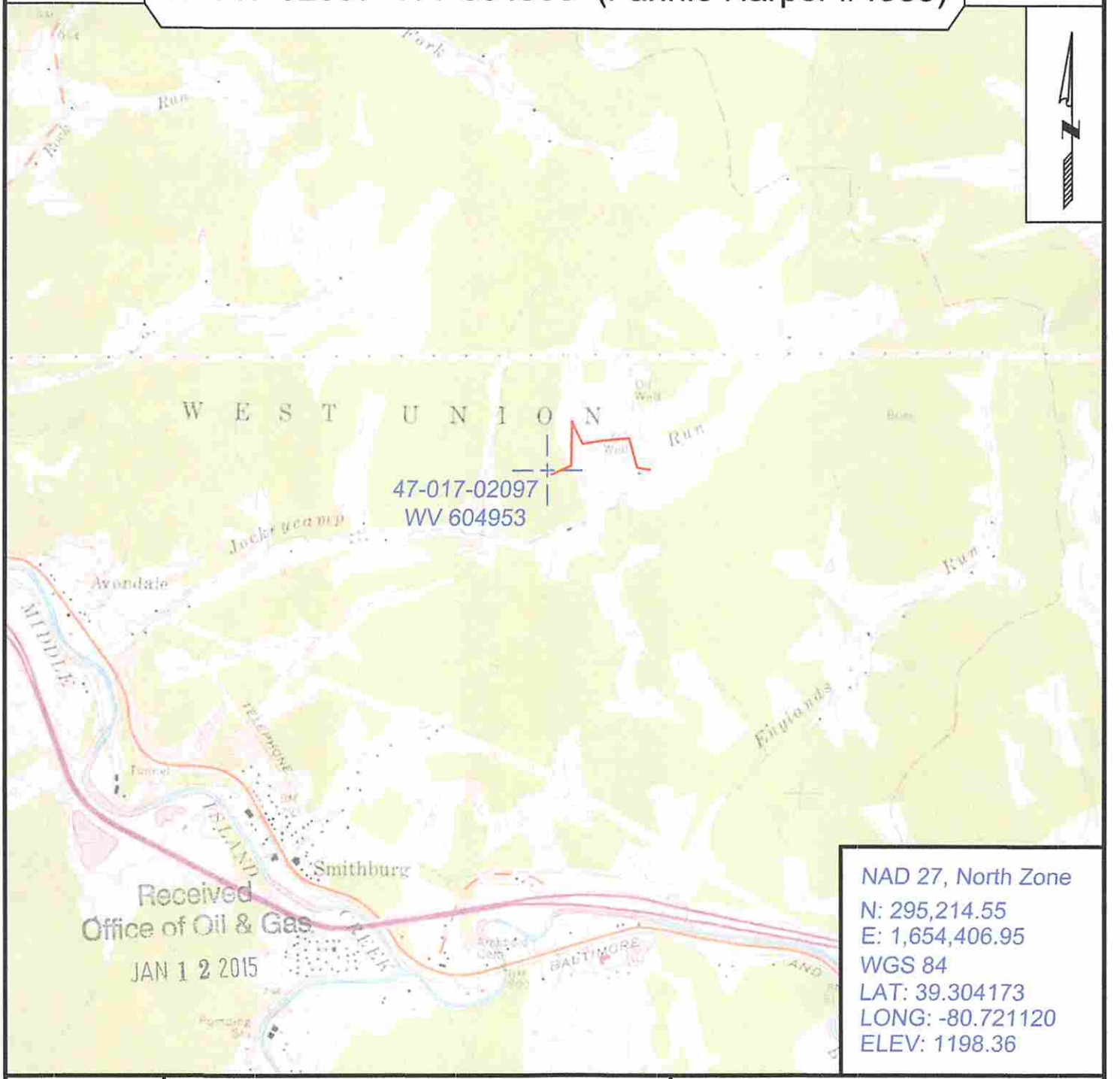
Topo Quad: Smithburg 7.5' Scale: 1 " = 2000'

County: Doddridge Date: November 4, 2014

District: West Union Project No: 67-30-00-08

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

Topo



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

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' 6 11

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:

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.

Received
Office of Oil & Gas
JAN 12 2015

Stacy O'Brown — Signature
PS # 2180 — Title
12/11/14 — Date

1702097P

POTENTIAL WATER SAMPLE DATA SHEET

CLIENT: EQT 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:

Received
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

ALLEGHENYSURVEYS.COM

1702097P

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

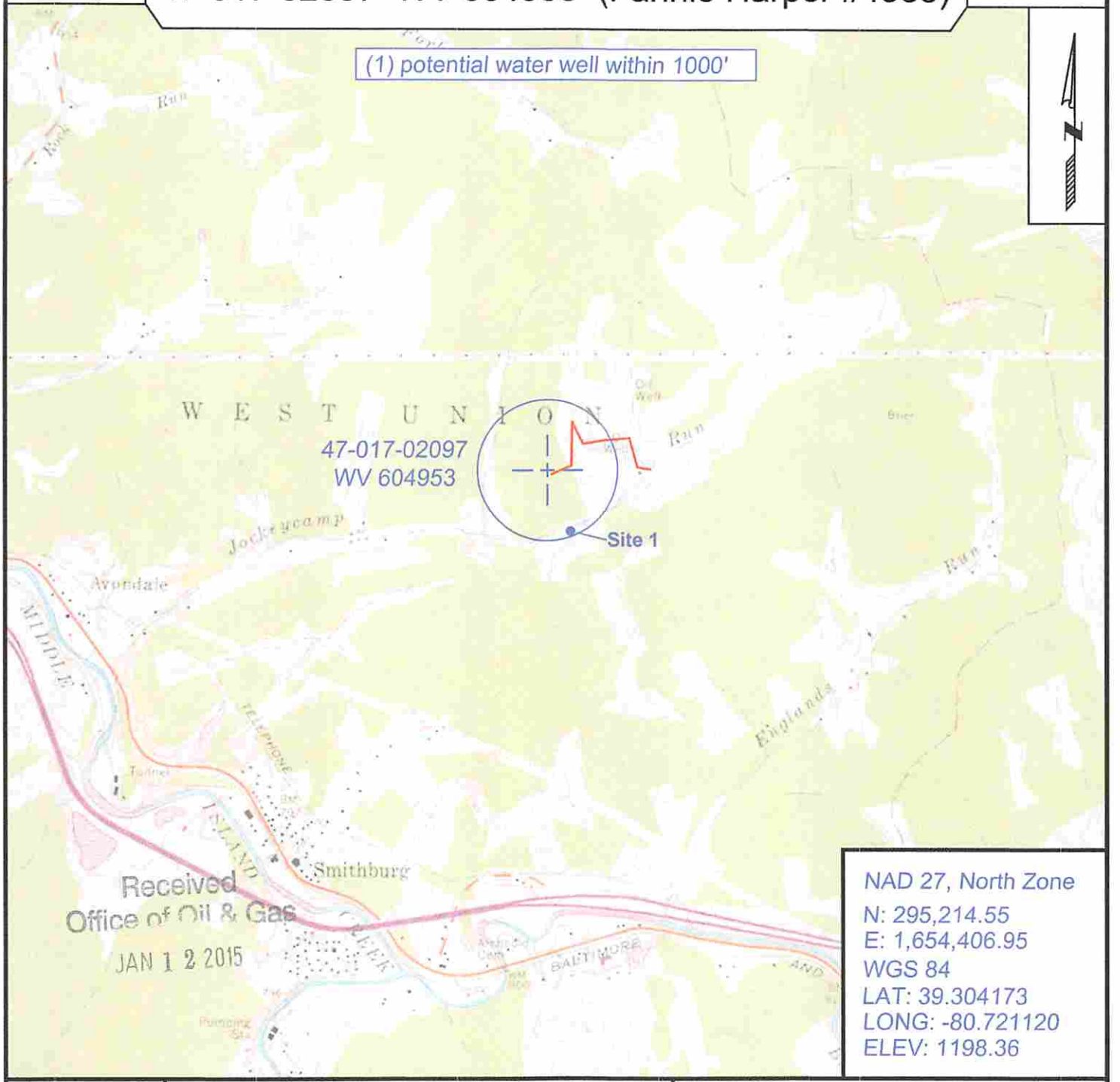
County: Doddridge Date: November 4, 2014

District: West Union Project No: 67-30-00-08

Water

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

(1) potential water well within 1000'



Received
Office of Oil & Gas
JAN 12 2015

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