



west virginia department of environmental protection

Office of Oil and Gas
601 57th Street, S.E.
Charleston, WV 25304
(304) 926-0450
fax: (304) 926-0452

Jim Justice , Governor
Austin Caperton , Cabinet Secretary
www.dep.wv.gov

Wednesday, December 13, 2017
WELL WORK PERMIT
Vertical / Plugging

XTO ENERGY, INC.
810 HOUSTON STREET

FORT WORTH, TX 76102

Re: Permit approval for E-0207
47-049-00970-00-00

This well work permit 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 any additional specific 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.

Please be advised that form WR-35, Well Operators Report of Well Work is to be submitted to this office within 90 days of completion of permitted well work, as should form WR-34 Discharge Monitoring Report within 30 days of discharge of pits, if applicable. Failure to abide by all statutory and regulatory provisions governing all duties and operations hereunder may result in suspension or revocation of this permit and, in addition, may result in civil and/or criminal penalties being imposed upon the operators.

Per 35 CSR 4-5.2.g this permit will expire in two (2) years from the issue date unless permitted well work is commenced. If there are any questions, please feel free to contact me at (304) 926- 0450.

James A. Martin
Chief

Operator's Well Number: E-0207
Farm Name: DeFAZIO, JOE
U.S. WELL NUMBER: 47-049-00970-00-00
Vertical / Plugging
Date Issued: 12/13/2017

Promoting a healthy environment.

12/15/2017

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.

WW-4B
Rev. 2/01

1) Date 10/24, 2017
2) Operator's
Well No. E-207
3) API Well No. 47-049 - 00970

STATE OF WEST VIRGINIA
DEPARTMENT 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) Location: Elevation 999.6' *Per Survey EPW* Watershed 0502000206 Lower West Fork River
District Grant County Marion Quadrangle _____
- 6) Well Operator XTO Energy Inc 7) Designated Agent Gary Beall
Address PO Box 1008 Address PO Box 1008
Jane Lew, WV 26378 Jane Lew, WV 26378
- 8) Oil and Gas Inspector to be notified 9) Plugging Contractor
Name Sam Ward Name _____
Address PO Box 2327 Address _____
Buckhannon, WV 26201

10) Work Order: The work order for the manner of plugging this well is as follows:

See attached

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Notification must be given to the district oil and gas inspector 24 hours before permitted work can commence.

Work order approved by inspector *J.P. DeWanda* Date 10/30/2017

12/15/2017

4704900970

DeFazio, Joe E-207

Plugging Procedure

- T.D. at 3693' at casing shoe, pull out of hole and run 2" tubing down to 3693' and circulate 6% gel back to surface.
- Pump cement from 3693' up to 3500'. Perfs at 3676' to 3616', using 16 sks.
- Pull tubing up to 3320' and let bottom plug set up and tag with tubing tools. If ok then break circulation and pump cement from 3320' up to 2974', perfs at 3270' -3074', using 26 sks.
- Pull tubing up to 2660' and pump cement up to 1980', using 53 sks. Perfs at 2608' - 2084'.
- Pull tubing up to 1770' and let cement set up and tag cement with tubing tools, if ok, pump cement from 1770' up to 1370', using 31 sks. Perfs at 1718' - 1470'.
- Pull tubing up to 1300' and let cement set up, tag with tools, if ok pull tubing out and RIH with CBL tool, old log shows cement top at 1200', cut 4.5" casing and POOH with wireline, break circulation with 6% gel back to surface and pump cement from 1200' up to 1050, using 29 sks.
- Elevation at 999' covered with casing and cement.
- Pull 4.5" casing up to 200' and pump cement to surface - 40 sks.
- 7" casing should be cement to surface, but will check and make sure.
- Install Well Monument.

Cement	3963' - 3500'
Cement	3320' - 2974'
Cement	2660' - 1980'
Cement	1770' - 1370'
Cement	1200' - 1050'
Cement	200' - 0'

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10/30/2017

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12/15/2017

API # 47-49-00970

State of West Virginia
Division of Environmental Protection
Section of Oil and Gas

8/16/92

Well Operator's Report of Well Work

COPY

Farm name: DeFAZIO, JOE Operator Well No. MORGAN #1 E-207

LOCATION: Elevation: 986.00 Quadrangle: FAIRMONT WEST

District: GRANT County: MARION
Latitude: 4120 Feet South of 39 Deg. 27Min. 30 Sec.
Longitude 10470 Feet West of 80 Deg. 10 Min. 0 Sec.

Company: EXCEL ENERGY, INC
P. O. BOX 1020
BRIDGEPORT, WV 26330-1020

Agent: HARRY L. BARNETT

Inspector: RANDAL NICK
Permit issued: 07/06/92
Well work commenced: 06/22/92
Well work completed: 06/28/92
Verbal Plugging
Permission granted on: _____
Rotary Cable _____ Rig
Total Depth (feet) 3710'
Fresh water depths (ft) 77', 555',
and 1160'
Salt water depths (ft) N/A

Casing & Tubing	Used in Drilling	Left in Well	Cement Fill Up Cu. Ft.
Size			
9 5/8"	Conductor	-----	-----
7"	1298'	1298'	270 sks
4 1/2"	3693'	3693'	270 sks

Is coal being mined in area (Y/N)?
Coal Depths (ft): 83'-88', 561'-563',
818'-823', and 962'-966'

OPEN FLOW DATA

Balltown, Speechley,
Producing formation and Elizabeth Pay zone depth (ft) 3086-3688
Gas: initial open flow ---- MCF/d Oil: initial open flow N/A Bbl/d
Final open flow 231 MCF/d Final open flow N/A Bbl/d
Time of open flow between initial and final tests 24 Hours
Static rock Pressure 700 psig (surface pressure) after 24 Hours

5TH, 4TH, Gordon
Second producing formation 50' and Injun Pay zone depth (ft) 1640-2608
Gas: initial open flow ---- MCF/d Oil: initial open flow N/A Bbl/d
Final open flow ~~Commingled~~ MCF/d Final open flow N/A Bbl/d
Time of open flow between initial and final tests --- Hours
Static rock Pressure ---- psig (surface pressure) after --- Hours

NOTE: ON BACK OF THIS FORM PUT THE FOLLOWING: 1). DETAILS OF PERFORATED INTERVALS, FRACTURING OR STIMULATING, PHYSICAL CHANGE, ETC. 2). THE WELL LOG WHICH IS A SYSTEMATIC DETAILED GEOLOGICAL RECORD OF ALL FORMATIONS, INCLUDING COAL ENCOUNTERED BY THE WELLBORE.

For: EXCEL ENERGY, INC

By: *Brad Thomas* Brad Thomas, Geologist
Date: July 9, 1992

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FU01 IV-35
(REVERSE)

DETAILS OF PERFORMED INTERVALS, FRACTURING OR STIMULATION, PHYSICAL CHANGE, ETC.

STAGE I (3086'-3688') 15 holes, 750 gal 15% HCL, 300 sks sand, 373 BBL
H₂O, 60 MCF N₂

STAGE II (2475'-2608') 16 holes, 500 gal 15% HCL, 300 sks sand, 396 BBL
H₂O, 60 MCF N₂

STAGE III (2097'-2250') 15 holes, 750 gal 15% HCL, 350 sks sand, 360 BBL
H₂O, 60 MCF N₂

STAGE IV (1640'-1718') 15 holes, 1000 gal 15% HCL, 420 sks sand, 442 BBL
H₂O, 60 MCF N₂

WELL LOG

FORMATION	COLOR	HARD OR SOFT	TOP FEET	BOTTOM FEET	REMARKS Including indication of all fresh and salt water, coal, oil and gas
Sand and Shale			0	83	damp @ 77'
Coal			83	88	
Sand and Shale			88	561	
Coal			561	563	1/4" H ₂ O @ 555'
Sand and Shale			563	818	
Coal			818	823	
Sand and Shale			823	962	
Coal			962	966	
Sand and Shale			966	1011	
Sand			1011	1191	1" H ₂ O @ 1160'
Sand and Shale			1191	1380	
Little Lime			1380	1437	
Shale			1437	1502	
Big Lime			1502	1551	
Big Injun			1551	1661	
Shale			1661	2071	
Sand			2071	2151	
Sand and Shale			2151	2410	
Sand			2410	2478	
Sand and Shale			2478	2573	
Fifth Sands			2573	2621	
Shale			2621	3190	
Speechley			3190	3200	Gas Show
Shale			3200	3510	
Balltown			3510	3550	Gas Show
Shale			3550	3710	DTD

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WW-4A
Revised 6-07

1) Date: 10/24/17
2) Operator's Well Number
E-207
3) API Well No.: 47 - 049 - 00970

STATE OF WEST VIRGINIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS
NOTICE OF APPLICATION TO PLUG AND ABANDON A WELL

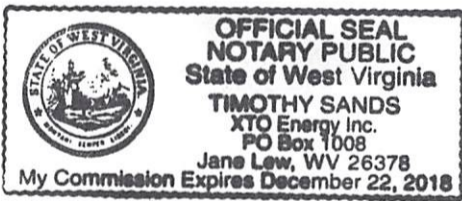
4) Surface Owner(s) to be served:	5) (a) Coal Operator
(a) Name <u>Joseph A Defazio Living Trust</u>	Name <u>Consol Mining Company LLC</u>
Address <u>65 Maple Lake Rd</u>	Address <u>1000 Consol Energy Drive</u>
<u>Bridgeport, WV 26330</u>	<u>Canonsburg, PA 15317</u>
(b) Name _____	(b) Coal Owner(s) with Declaration
Address _____	Name <u>Consolidation Coal Co. (d/b Murray Energy)</u>
(c) Name _____	Address <u>46226 National Road</u>
Address _____	<u>St. Clairsville, OH 43950</u>
6) Inspector <u>Sam Ward</u>	(c) Coal Lessee with Declaration
Address <u>PO Box 2327</u>	Name _____
<u>Buckhannon, WV 26201</u>	Address _____
Telephone <u>304-389-7583</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 Department 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 XTO Energy Inc.
 By: [Signature]
 Its: Production Superintendent
 Address PO Box 1008
Jane Lew, WV 26378
 Telephone 304-884-6000

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Subscribed and sworn before me this 24th day of October, 2017
[Signature] Notary Public

WV Department of Environmental Protection

My Commission Expires 12/22/2018

Oil and Gas Privacy Notice

The Office of Oil and Gas processes your personal information, such as name, address and phone number, as a 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.

12/15/2017

WW-9
(5/16)

API Number 47 - 049 - 00970
Operator's Well No. E-207

STATE OF WEST VIRGINIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION
OFFICE OF OIL AND GAS
FLUIDS/ CUTTINGS DISPOSAL & RECLAMATION PLAN

Operator Name XTO Energy Inc. OP Code 494487940

Watershed (HUC 10) 0502000206 Lower West Fork River Quadrangle Fairmont West

Do you anticipate using more than 5,000 bbls of water to complete the proposed well work? Yes No

Will a pit be used? Yes No

If so, please describe anticipated pit waste: Fluids from plugging operations will be put into tanks.

Will a synthetic liner be used in the pit? Yes No If so, what ml? _____

Proposed Disposal Method For Treated Pit Wastes:

- Land Application (if selected provide a completed form WW-9-GPP)
- Underground Injection (UIC Permit Number 4707302523, 4708505151, 4708509721)
- Reuse (at API Number _____)
- Off Site Disposal (Supply form WW-9 for disposal location)
- Other (Explain Meadowbrook Landfill SWF#1032, RES Water Recycling -WMGR123SW005 (PA))

*SDW
10/30/2017*

Will closed loop system be used? If so, describe: NA

Drilling medium anticipated for this well (vertical and horizontal)? Air, freshwater, oil based, etc. NA - Plugging

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-If oil based, what type? Synthetic, petroleum, etc. NA

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Additives to be used in drilling medium? NA

Drill cuttings disposal method? Leave in pit, landfill, removed offsite, etc. Any solid waste from plugging will be taken to landfill/ Department of Environmental Protection

-If left in pit and plan to solidify what medium will be used? (cement, lime, sawdust) NA

-Landfill or offsite name/permit number? Meadowbrook Landfill SWF#1032

Permittee shall provide written notice to the Office of Oil and Gas of any load of drill cuttings or associated waste rejected at any West Virginia solid waste facility. The notice shall be provided within 24 hours of rejection and the permittee shall also disclose where it was properly disposed.

I certify that I understand and agree to the terms and conditions of the GENERAL WATER POLLUTION PERMIT issued on April 1, 2016, by the Office of Oil and Gas of the West Virginia Department of Environmental Protection. I understand that the provisions of the permit are enforceable by law. Violations of any term 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 *[Signature]*

Company Official (Typed Name) Gary Beall

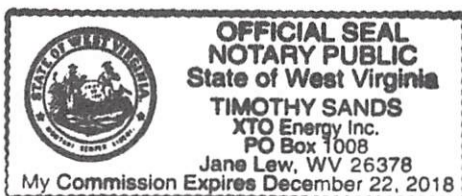
Company Official Title Production Superintendent

Subscribed and sworn before me this 24th day of October, 2017

[Signature] Notary Public

My commission expires December 22nd, 2018

12/15/2017



Form WW-9

Operator's Well No. E-207

Proposed Revegetation Treatment: Acres Disturbed 1.6 +/- Prevegetation pH _____

Lime 3 Tons/acre or to correct to pH _____

Fertilizer type 10-20-20

Fertilizer amount 1000 lbs/acre

Mulch 3 Tons/acre

Seed Mixtures

Temporary		Permanent	
Seed Type	lbs/acre	Seed Type	lbs/acre
<u>Annual Ryegrass</u>	<u>40</u>	<u>Kentucky Bluegrass</u>	<u>20</u>
		<u>Redtop</u>	<u>3</u>
		<u>Birdsfoot Trefoil</u>	<u>10</u>

Attach:

Maps(s) of road, location, pit and proposed area for land application (unless engineered plans including this info have been provided). If water from the pit will be land applied, provide water volume, include dimensions (L, W, D) of the pit, and dimensions (L, W), and area in acres, of the land application area.

Photocopied section of involved 7.5' topographic sheet.

Plan Approved by: [Signature]

Comments: _____

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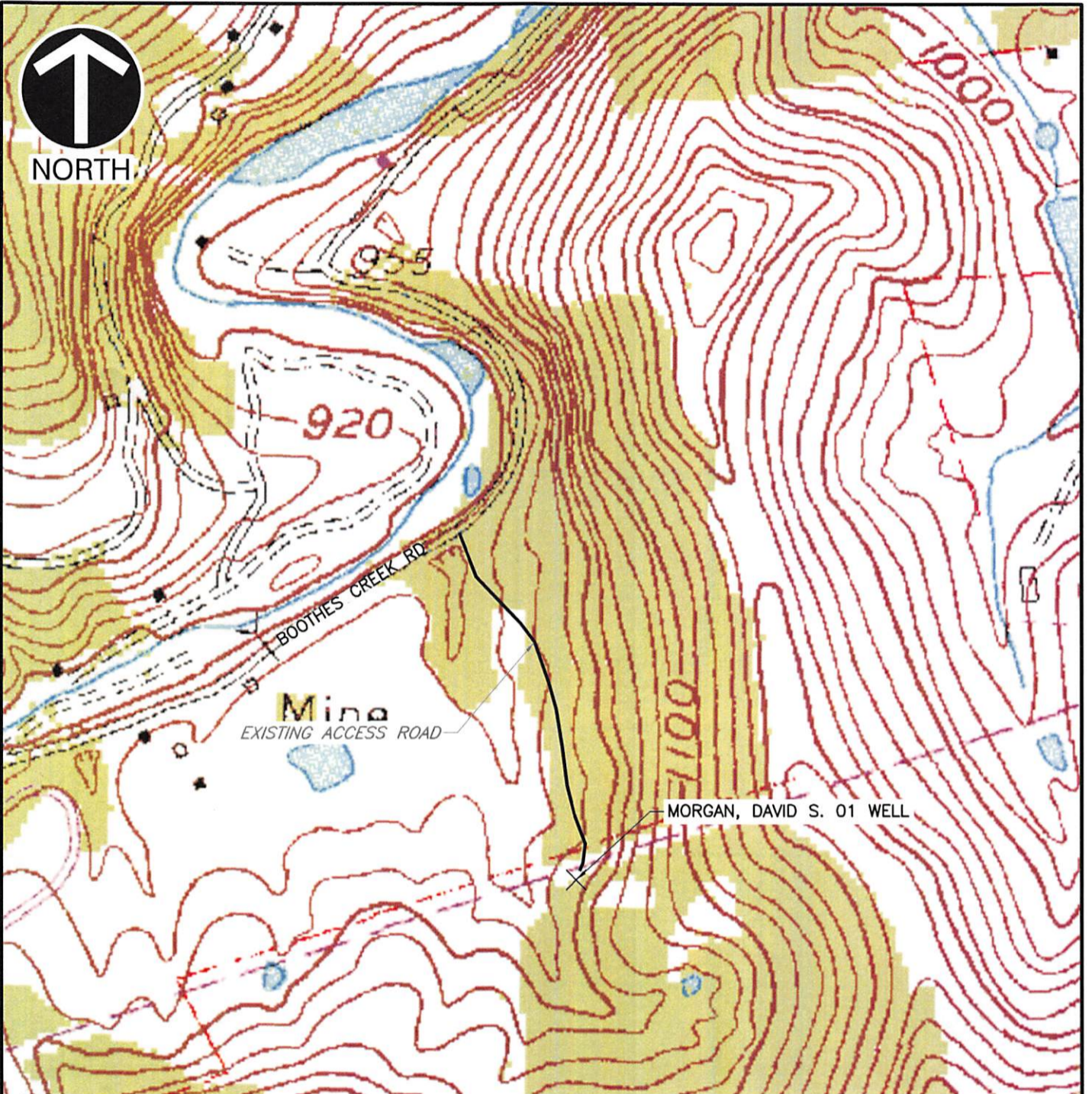
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Title: COG Inspector Date: 10/30/2017

Field Reviewed? () Yes (X) No

12/15/2017



REFERENCE

1. U.S.G.S. 7.5' TOPOGRAPHIC MAP, FAIRMONT WEST QUADRANGLE, WEST VIRGINIA DATED: 1955



Civil & Environmental Consultants, Inc.

333 Baldwin Road · Pittsburgh, PA 15205
412-429-2324 · 800-365-2324

www.cecinc.com * HAND SIGNATURE ON FILE

XTO ENERGY, INC.
MORGAN, DAVID S. 01
WELL PLUG
MARION COUNTY, WEST VIRGINIA

SITE LOCATION MAP

DRAWN BY: TLW	CHECKED BY: EAH	APPROVED BY: BCL*	FIGURE NO.: 1
DATE: 9-28-17	DWG SCALE: 1"=500'	PROJECT NO: 174-307	12/15/2017

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WW-7
8-30-06



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

API: 47-049-00970 WELL NO.: 1
FARM NAME: DeFazio, Joe
RESPONSIBLE PARTY NAME: XTO Energy INC.
COUNTY: Marion DISTRICT: Grant
QUADRANGLE: Fairmont West, WV
SURFACE OWNER: Joseph A DeFazio Living Trust
ROYALTY OWNER: CLARENCE MUTSCHIELKNAUS
UTM GPS NORTHING: 4366701.5 Meters
UTM GPS EASTING: 568543.8 Meters GPS ELEVATION: 999.6 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 : Post Processed Differential
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] Project Manager 11-8-17
Signature Title Date

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