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west virginia department of environmental protection

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

Austin Caperton, Cabinet Secretary  
[www.dep.wv.gov](http://www.dep.wv.gov)

Thursday, July 25, 2019  
WELL WORK PLUGGING PERMIT  
Vertical Plugging

XTO ENERGY, INC.  
810 HOUSTON STREET

FORT WORTH, TX 76102

Re: Permit approval for Y5  
47-033-02314-00-00

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.

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. Please be advised that form WR-38, Affidavit of Plugging and Filling Well, 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: Y5  
Farm Name: TETRICK VIRGINIA A ESTA<sup>+</sup>  
U.S. WELL NUMBER: 47-033-02314-00-00  
Vertical Plugging  
Date Issued: 7/25/2019

## 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.

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### CONDITIONS

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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 5/7, 20 19  
 2) Operator's Well No. Y5  
 3) API Well No. 47-033-02314P

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 985' Watershed Tenmile Creek  
 District Sardis County Harrison Quadrangle Wallace

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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 MAY 14 2019  
 WV Department of  
 Environmental Protection

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

Work order approved by inspector SPDW Date 4/9/2019

| <u>API</u>   | <u>Farm Name</u>    | <u>Well Number</u> |
|--------------|---------------------|--------------------|
| 47-033-02314 | Rittenhouse, Justin | Y5                 |

Elevation: 985'

### Plugging Procedure

Run tools down the 2" tubing and check T.D. at 2,397.

Pull old tubing out and run good tubing to 2,397'.

6% gel - 2,397 - surface.

5 3/4 O.H.

Cement 2,397' - 2,025' - covering gas at 2,386', 2,199 - 2,150', 2,080 - 2,125'.

372' x 0.0321 = 12 bbl = 58 sks. Disp. 7 bbl. WOC.

Pull tubing up to 1,575', RIH and tag cement top. ADD CEMENT IF NEEDED.

If cement top is ok, pull tubing out.

RIH with CBL tool to see where the 7" casing is free, pull

all casing or cut. IF CUT, MUST PLACE A 100' MINIMUM CEMENT PLUG ACROSS CUT.

Run tubing back to 1,660' - cover gas at 1,605' - 1,569'.

6% gel 1,660' - surface.

8.5 O.H.

Cement 1,660' - 1,500' = 160' x 0.0709 = 12 bbl = 58 sks. Disp. 5bbl.

Elevation 985'.

Pull tubing up to 1,000'.

6% gel 1,000' - surface.

9.5 O.H.

Cement 1,035' - 925' = 110' x 0.0875 = 10 bbl = 48 sks. Disp 3 bbl.

Pull tubing up to 360' - bottom of 10" at 310'.

6% gel - 360' - surface.

Cement - 360' - 260' = 100' x 0.1010 = 10.1 bbl = 49 sks. Disp 1 bbl.

Pull tubing up to 100'.

Cement <sup>200'</sup> 100' - surface = <sup>200'</sup> 100 x 0.1010 = <sup>20.2</sup> 10.1 bbl = <sup>98</sup> 49 sks. COVER PITTSBURGH CONCRETE 155' - 162'

Install 6" well monument.

Note: If we can't pull the 7" or 8" casing we will request permission from DEP inspector to shoot perforation holes and squeeze cement as needed.

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JDW  
4/9/2019

FORM IV-35  
(Obverse)

DEPARTMENT OF MINES, OIL AND GAS DIVISION

Operator's Well No. Y-5

[08-78]

WELL OPERATOR'S REPORT

API Well No. 47 -        State        County       

OF DRILLING, FRACTURING AND/OR STIMULATING, OR PHYSICAL CHANGE

WELL TYPE: Oil  / Gas  / Liquid Injection  / Waste Disposal   
 (If "Gas", Production  / Underground storage  / Deep  / Shallow  /)  
 LOCATION: Elevation: N/A Watershed: Little Ten Mile Creek  
 District: Sardis County: Harrison Quadrangle: Clarksburg NW 4

WELL OPERATOR Eagle Gas Company DESIGNATED AGENT Lorna Hill  
 Address: 211 Main Street Address 211 Main Street  
Lumberport, W. Va. 26386 Lumberport, W. Va. 26386

PERMITTED WORK: Drill  / Convert  / Drill deeper  / Redrill  / Fracture or stimulate  
 Plug off old formation  / Perforate new formation   
 Other physical change in well (specify) \_\_\_\_\_

PERMIT ISSUED ON \_\_\_\_\_, 19\_\_\_\_ OIL & GAS INSPECTOR FOR THIS WORK:  
 (IF APPLICABLE: PLUGGING OF DRY HOLE ON CONTINUOUS PROGRESSION FROM DRILLING OR REWORKING. VERBAL PERMISSION OBTAINED) Name \_\_\_\_\_ Address \_\_\_\_\_  
 \_\_\_\_\_, 19\_\_\_\_

GEOLOGICAL TARGET FORMATION: Fourth Sand Depth 2384 feet  
 Depth of completed well, 2397 feet Rotary  / Cable Tools   
 Water strata depth: Fresh, 85 feet; salt, 974 feet.  
 Coal seam depths: 155 Is coal being mined in the area?   
 Work was commenced N/A, 19\_\_\_\_, and completed n/a, 19\_\_\_\_

CASING AND TUBING PROGRAM

| CASING OR TUBING TYPE: | SPECIFICATIONS |        |               |     |      | FOOTAGE INTERVALS |              | CEMENT FILL-UP OR SACKS (Cubic feet) | PACKERS |                             |
|------------------------|----------------|--------|---------------|-----|------|-------------------|--------------|--------------------------------------|---------|-----------------------------|
|                        | Size           | Grade  | Weight per ft | New | Used | For drilling      | Left in well |                                      | Kinds   | Anchor                      |
| Conductor              |                |        |               |     |      |                   |              |                                      |         |                             |
| Fresh water            |                |        |               |     |      |                   |              |                                      |         |                             |
| Coal                   | 10"            | 32     |               |     |      | 310               | 310          |                                      |         | Sizes 6 5/8" x 2            |
| Intermediate           | 8"             | 24     |               |     |      | 1084              | 0            |                                      |         |                             |
| Production             | 7"             | 17     |               |     |      | 1605              | 1605         |                                      |         | Depth set 1550              |
| Tubing                 | 2"             | 4 1/2" |               |     |      | 2397              | 2397         |                                      |         |                             |
| Liners                 |                |        |               |     |      |                   |              |                                      |         | Perforations:<br>Top Bottom |

OPEN FLOW DATA

Producing formation Fourth Sand Pay zone depth 2384 feet  
 Gas: Initial open flow, N/A Mcf/d Oil: Initial open flow, \_\_\_\_\_ Bbl/d  
 Final open flow, 95 Mcf/d Final open flow, \_\_\_\_\_ Bbl/d  
 Time of open flow between initial and final tests, \_\_\_\_\_ hours  
 Static rock pressure, N/A psig (surface measurement) after \_\_\_\_\_ hours shut in  
 [If applicable due to multiple completion--]  
 Second producing formation \_\_\_\_\_ Pay zone depth \_\_\_\_\_  
 Gas: Initial open flow, \_\_\_\_\_ Mcf/d Oil: Initial open flow, \_\_\_\_\_ Bbl/d  
 Final open flow, \_\_\_\_\_ Mcf/d Final open flow, \_\_\_\_\_ Bbl/d  
 Time of open flow between initial and final tests, \_\_\_\_\_ hours  
 Static rock pressure, \_\_\_\_\_ psig (surface measurement) after \_\_\_\_\_ hours shut in

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FORM IV-35  
(Reverse)

Huber #5

[(6-78)]

Page #1

DETAILS OF PERFORATED INTERVALS, FRACTURING OR STIMULATING, PHYSICAL CHANGE, ETC.

WELL LOG

| FORMATION         | Color | Hard or Soft | Top Feet | Bottom Feet | Remarks<br>Including indication of all free and salt water, coal, oil and gas |
|-------------------|-------|--------------|----------|-------------|---|
| Slate             |       |              | 50       | 70          |   |
| Lime              |       |              | 70       | 90          | Water 85'   |
| Pittsburgh Coal   |       |              | 155      | 162         |   |
| Slate             |       |              |          |             |   |
| Red Rock          |       |              | 162      | 310         |   |
| Slate             |       |              | 310      | 450         |   |
| Red Rock Slate    |       |              | 476      | 512         |   |
| Sand, Big Dunkard |       |              | 512      | 675         | Gas 675'  |
| Lime              |       |              | 678      | 745         |   |
| Slate             |       |              | 745      | 828         |   |
|                   |       |              | 828      | 874         |   |
| Gas Sand          |       |              | 874      | 925         |   |
| Slate             |       |              | 926      | 935         |   |
| First Salt Sand   |       |              | 935      | 990         | Water 974'  |
| Second Salt Sand  |       |              | 1030     | 1132        | Water 1100' - 1120'   |
| Slate             |       |              | 1132     | 1240        |   |
| Lime              |       |              | 1240     | 1365        |   |
| Slate             |       |              | 1265     | 1310        |   |
| Red Rock          |       |              | 1310     | 1414        |   |

Continued on Page #2

(Attach separate sheets to complete as necessary)

Eagle Gas Company  
Well Operator

By \_\_\_\_\_  
Its Chief Executive Officer

NOTE: Regulation 2.02(i) provides as follows:  
"The term 'log' or 'well log' shall mean a systematic, detailed geological record of all formations, including coal, encountered in the drilling of a well."

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FORM IV-35  
(Reverse)

Page 02

[08-78]

DETAILS OF PERFORATED INTERVALS, FRACTURING OR STIMULATING, PHYSICAL CHANGE, ETC.

WELL LOG

| FORMATION    | Color | Hard or Soft | Top Feet | Bottom Feet | Remarks<br>Including indication of all fracs<br>and salt water, coal, oil and gas |
|--------------|-------|--------------|----------|-------------|---|
| Maxon Sand   |       |              | 1414     | 1420        |   |
| Slate        |       |              | 1420     | 1450        |   |
| Little Lime  |       |              | 1450     | 1470        |   |
| Pencil Cave  |       |              |          |             |   |
| Lime         |       |              | 1470     | 1481        |   |
| Big Lime     |       |              | 1481     | 1489        |   |
|              |       |              | 1500     | 1561        |   |
| Big Injun    |       |              | 1561     | 1641        |   |
| Slate        |       |              |          |             |   |
| Sand         |       |              | 1641     | 1651        |   |
|              |       |              | 1651     | 1700        |   |
| Lime         |       |              | 1700     | 1805        |   |
| Gantz Sand   |       |              | 1805     | 1820        |   |
| Slate        |       |              | 1820     | 2050        |   |
| Lime         |       |              | 2050     | 2080        |   |
| Fifty Foot   |       |              | 2080     | 2125        |   |
| Slate        |       |              | 2125     | 2150        |   |
| Thirty Foot  |       |              | 2150     | 2199        | Gas - 2187  |
| Sand         |       |              | 2287     | 2296        |   |
| Gordon Stray |       |              | 2296     | 2334        |   |
| Gordon Sand  |       |              | 2338     | 2373        |   |
| Fourth Sand  |       |              | 2384     |             | Gas - 2386' / 63/10 Water in<br>1" Pipe   |
| Total Depth  |       |              |          | 2397        |   |

(Attach separate sheets to complete as necessary)

Eagle Gas Company

Well Operator

By

*[Signature]*

Its

Chief Executive Officer

NOTE: Regulation 2:02(f) provides as follows:

"The term 'log' or 'well log' shall mean a systematic, detailed geological record of all formations, including coals, encountered in the drilling of a well."

WW-4A  
Revised 6-07

1) Date: 5/7/19  
2) Operator's Well Number  
Y5 \_\_\_\_\_  
3) API Well No.: 47 - 033 - 02314

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

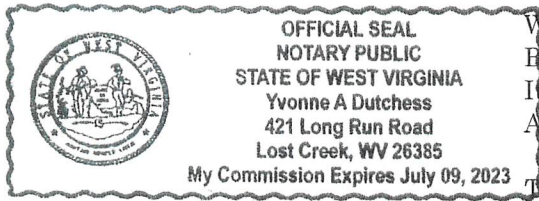
|  |   |
|--|---|
| 4) Surface Owner(s) to be served:                            | 5) (a) Coal Operator                    |
| (a) Name <u>Virginia Tetrick Estate, c/o Guy Corporation</u> | Name _____                              |
| Address <u>92 16th St. Fl. 2</u>                             | Address _____                           |
| <u>Wheeling, WV 26003</u>                                    |   |
| (b) Name <u>Mr. &amp; Mrs. James &amp; Gracie Myers</u>      | (b) Coal Owner(s) with Declaration      |
| Address <u>290 Pleasant Hill Rd.</u>                         | Name <u>Grafton Coal Company</u>        |
| <u>Lumberport, WV 26386</u>                                  | Address <u>PO Box 1050</u>              |
|  | <u>Bridgeport, WV 26330</u>             |
| (c) Name <u>Patriot Mining Company Inc.</u>                  | Name <u>Guy Corporation</u>             |
| Address <u>c/o Ark Land Co. Attn: Land Dept.</u>             | Address <u>92 16th St.</u>              |
| <u>1 City Place Dr., St. Louis, MO 63141</u>                 | <u>Wheeling, WV 26003</u>               |
| 6) Inspector <u>Sam Ward</u>                                 | (c) Coal Lessee with Declaration        |
| Address <u>PO Box 2327</u>                                   | Name <u>Consolidation Coal Company</u>  |
| <u>Buckhannon, WV 26201</u>                                  | Address <u>1000 Consol Energy Drive</u> |
| Telephone <u>304-389-7583</u>                                | <u>Canonsburg, PA 15317</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]  
 Title: Regulatory Coordinator  
 Address PO Box 1008  
Jane Lew, WV 26378  
 Telephone 304-884-6000

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MAY 14 2019  
WV Department of  
Environmental Protection

Subscribed and sworn before me this 7<sup>th</sup> day of May 2019  
Yvonne A Dutchess Notary Public  
My Commission Expires July 9, 2023

**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 [depprivacyoffier@wv.gov](mailto:depprivacyoffier@wv.gov).



WW-9  
(5/16)

API Number 47 - 033 - 02314  
Operator's Well No. Y5

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) Tenmile Creek Quadrangle Wallace

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.? NA

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  
4/19/2019

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

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

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.

-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 *TS*

Company Official (Typed Name) Tim Sands

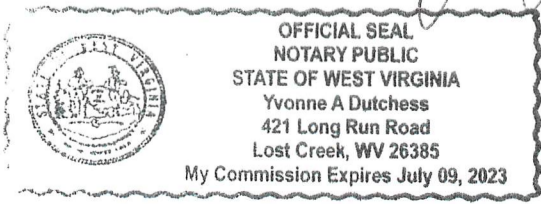
Company Official Title Regulatory Coordinator

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Subscribed and sworn before me this 7<sup>th</sup> day of May, 20 19

*Yvonne A. Dutchess* Notary Public

My commission expires July 9, 2023



Form WW-9

Operator's Well No. Y5

Proposed Revegetation Treatment: Acres Disturbed 8.53 +/- 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 |
|-----------------|----------|
| Annual Ryegrass | 40       |
|                 |          |
|                 |          |

| Seed Type          | lbs/acre |
|--------------------|----------|
| Kentucky Bluegrass | 20       |
| Redtop             | 3        |
| Birdsfoot Trefoil  | 10       |

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: SEP Warrill

Comments: \_\_\_\_\_

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

Title: OOG Inspector

Date: 4/9/2019

Field Reviewed? ( ) Yes ( X ) No

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WW-9- GPP  
Rev. 5/16

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API Number 47 - 033 - 02314  
Operator's Well No. Y5

STATE OF WEST VIRGINIA  
DEPARTMENT OF ENVIRONMENTAL PROTECTION  
OFFICE OF OIL AND GAS  
GROUNDWATER PROTECTION PLAN

Operator Name: XTO Energy Inc.  
Watershed (HUC 10): Tenmile Creek Quad: Wallace  
Farm Name: Rittenhouse, Justin

- 1. List the procedures used for the treatment and discharge of fluids. Include a list of all operations that could contaminate the groundwater.

Fluids will not be discharged.

- 2. Describe procedures and equipment used to protect groundwater quality from the list of potential contaminant sources above.

NA

- 3. List the closest water body, distance to closest water body, and distance from closest Well Head Protection Area to the discharge area.

NA

- 4. Summarize all activities at your facility that are already regulated for groundwater protection.

NA

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- 5. Discuss any existing groundwater quality data for your facility or an adjacent property.

WW-9- GPP  
Rev. 5/16

Page 2 of 2  
API Number 47 - 033 - 02314  
Operator's Well No. Y5

NA

6. Provide a statement that no waste material will be used for deicing or fill material on the property.

NA

7. Describe the groundwater protection instruction and training to be provided to the employees. Job procedures shall provide direction on how to prevent groundwater contamination.

NA

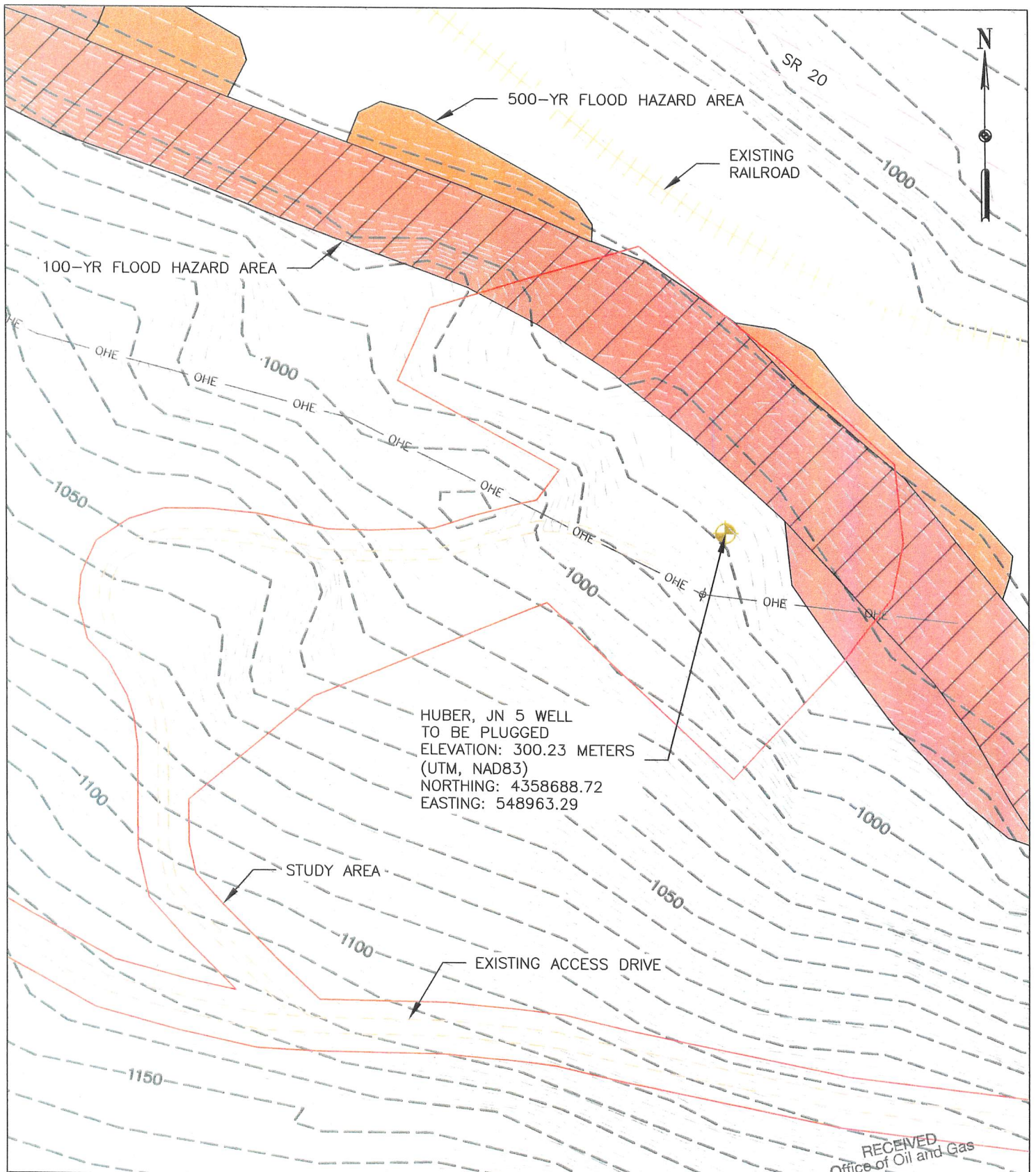
8. Provide provisions and frequency for inspections of all GPP elements and equipment.

NA

Signature: [Signature]

Date: 5/7/19

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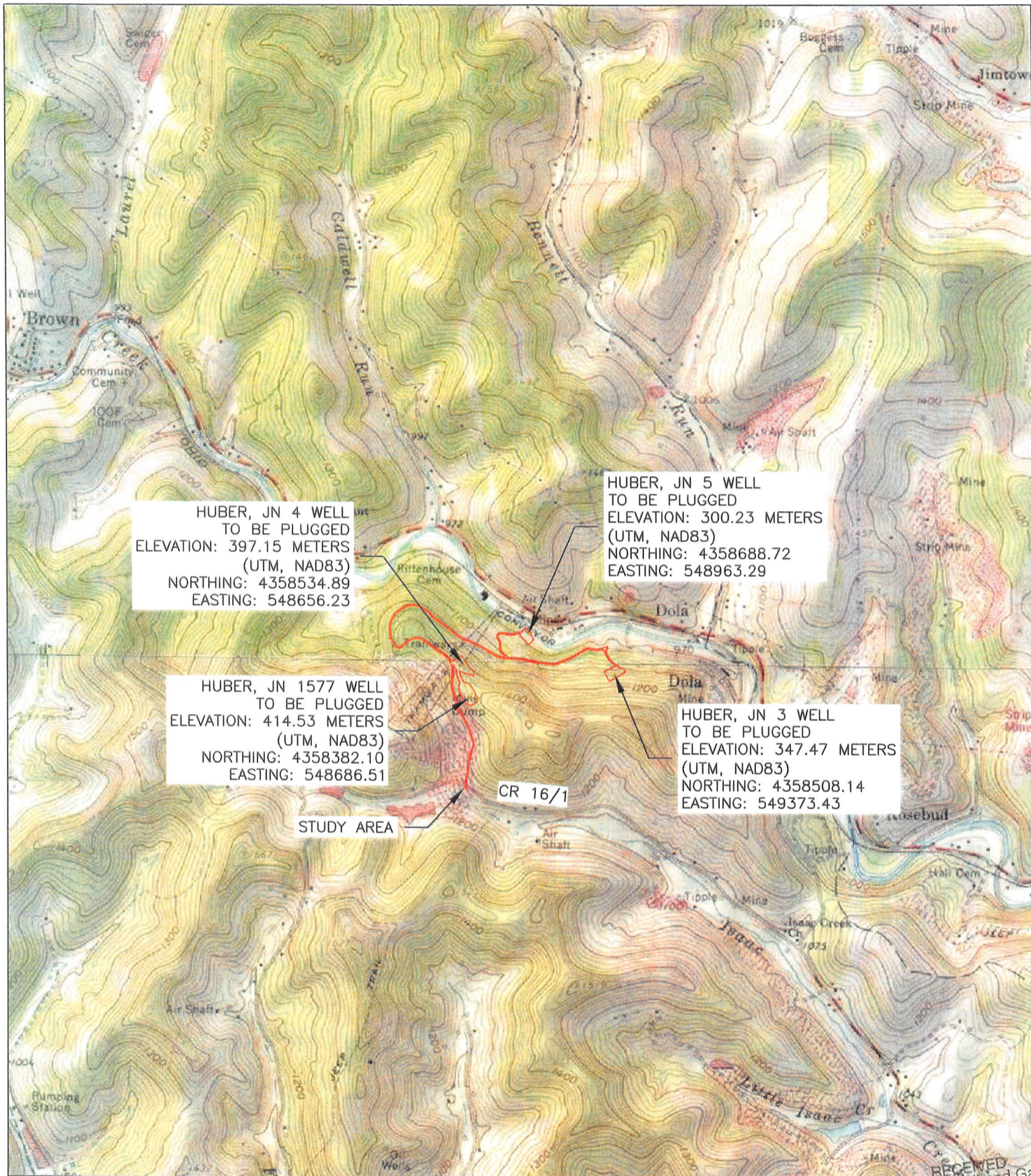


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|   |   |  |  |
|---|---|--|--|
| <b>SCALES</b><br>HORIZ: 1"=100'<br>VERT:<br>CONTOUR INT: 2' | DESN BY: SDG<br>DRWN BY: SDG<br>RVWD BY: MMV<br>FLD BK:<br>BK PG:<br>DATE: 3/8/19   | REV. BY: _____ DATE: _____ DESC.: _____<br>REV. BY: _____ DATE: _____ DESC.: _____<br>REV. BY: _____ DATE: _____ DESC.: _____<br>REV. BY: _____ DATE: _____ DESC.: _____ |  |
|   | MORRIS KNOWLES & ASSOCIATES, INC.<br>A HAMMONTREE COMPANY<br>ENGINEERS, PLANNERS, SURVEYORS<br>443 ATHENA DRIVE DELMONT, PA 15626<br>PHN: (724) 468-4622 FAX: (724) 468-8940<br>www.morrisknowles.com |  |  |
|   | SHEET NUMBER:<br>1 OF 1   | TOPOGRAPHIC MAP<br><b>HUBER, JN WELLS</b><br>FOR: XTO ENERGY, INC.<br>CR 16/1, SARDIS DISTRICT, HARRISON COUNTY, WEST VIRGINIA   |  |
|   |   |  |  |



HUBER, JN 4 WELL  
TO BE PLUGGED  
ELEVATION: 397.15 METERS  
(UTM, NAD83)  
NORTHING: 4358534.89  
EASTING: 548656.23

HUBER, JN 5 WELL  
TO BE PLUGGED  
ELEVATION: 300.23 METERS  
(UTM, NAD83)  
NORTHING: 4358688.72  
EASTING: 548963.29

HUBER, JN 1577 WELL  
TO BE PLUGGED  
ELEVATION: 414.53 METERS  
(UTM, NAD83)  
NORTHING: 4358382.10  
EASTING: 548686.51

HUBER, JN 3 WELL  
TO BE PLUGGED  
ELEVATION: 347.47 METERS  
(UTM, NAD83)  
NORTHING: 4358508.14  
EASTING: 549373.43

STUDY AREA

CR 16/1

RECEIVED  
Office of Oil and Gas  
MAY 14 2019

|  |   |   |
|--|---|---|
| SCALES<br>HORIZ: 1"=2000'<br>VERT:<br>CONTOUR INT: 20' | DESN BY: <u>SDG</u>                                   | REV. BY: _____ DATE: _____ DESC.: _____ |
|  | DRWN BY: <u>SDG</u>                                   | REV. BY: _____ DATE: _____ DESC.: _____ |
|  | RVWD BY: <u>MMV</u>                                   | REV. BY: _____ DATE: _____ DESC.: _____ |
|  | FLD BK: _____<br>BK PG: _____<br>DATE: <u>03/8/19</u> | REV. BY: _____ DATE: _____ DESC.: _____ |

SHEET NUMBER:  
1 OF 1

USGS MAP - WALLACE & WOLF SUMMIT QUADRANGLES  
**HUBER, JN WELLS**  
 FOR: XTO ENERGY, INC.  
 CR 16/1, SARDIS DISTRICT, HARRISON COUNTY, WEST VIRGINIA

**MORRIS KNOWLES & ASSOCIATES, INC.**  
 A HAMMONTREE COMPANY  
 ENGINEERS, PLANNERS, SURVEYORS  
 443 ATHENA DRIVE DELMONT, PA 15626  
 PHN: (724) 468-4622 FAX: (724) 468-8940  
 www.morrisknowles.com

WV Department of Environmental Protection

WW-7  
8-30-06



West Virginia Department of Environmental Protection  
Office of Oil and Gas

**WELL LOCATION FORM: GPS**

API: 47-033-02314 WELL NO.: Y5  
 FARM NAME: Huber, Jn  
 RESPONSIBLE PARTY NAME: XTO Energy, Inc.  
 COUNTY: Harrison DISTRICT: Sardis  
 QUADRANGLE: Wallace  
 SURFACE OWNER: Tetrick Virginia A Estate  
 ROYALTY OWNER: See attached  
 UTM GPS NORTHING: 4358688.72  
 UTM GPS EASTING: 548963.29 GPS ELEVATION: 300.23 (984')

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.

St. Sas  
Signature

Regulatory Coordinator  
Title

4/4/19  
Date

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Office of Oil and Gas  
MAY 14 2019  
WV Department of  
Environmental Protection