



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

Austin Caperton, Cabinet Secretary
www.dep.wv.gov

Tuesday, August 7, 2018
WELL WORK PLUGGING PERMIT
Vertical Plugging

XTO ENERGY, INC.
810 HOUSTON STREET

FORT WORTH, TX 76102

Re: Permit approval for HOVATER 1-E316
47-091-00890-00-00

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: HOVATER 1-E316
Farm Name: HOVATER, TEDDIE R.
U.S. WELL NUMBER: 47-091-00890-00-00
Vertical Plugging
Date Issued: 8/7/2018

I

91 - 00890A

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.

08/10/2018

91-00890 A

WW-4B
Rev. 2/01

1) Date 7/12, 2018
2) Operator's
Well No. Hovater 1-E-316
3) API Well No. 47-091 - 00890

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 1633' Watershed 0502000107 Lower Tygart Valley River
District Fetterman County Taylor Quadrangle Gladesville
- 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 Kenneth Greynolds Name _____
Address 613 Broad Run Road Address _____
Jane Lew, WV 26378

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 *Kenneth Greynolds* Date 7-12-18

NEED TO BE SURE CEMENT ACROSS ELEVATION 08/10/2018

<u>API</u>	<u>Farm Name</u>	<u>Well Number</u>
47-091-00890	HOVATER, TEDDIE R.	HOVATER 1-E316

Plugging Procedure

6% gel from 3,185' to surface.

Perfs - 3,104' - 2,566'.

Cement - 3,185' - 2,450' = 735' x 0.0163 = 12 bbl = 58 sks.

6% gel - 2,450' - 2,340'.

Tag cement.

Perfs - 2,285' - 2,204'.

Cement - 2,340' - 2,060' = 280' x 0.0163 = 5 bbl = 24 sks.

Pull tubing and RIH with CBL tools.

Old CBL log shows cement top on 4.5" casing at 900'.

Cut 4.5" casing at 900' and circulate 6% gel to surface.

Cement - 900' - 800' = 100' x 0.0652 = 6.5 bbl = 32 sks.

6% gel - 800' - 300'.

Cement - 300' - Surface - Coal seam @ 266'.

Cement - 300' x 0.0652 = 20 bbl = 96 sks.

Install well monument.

Cement 3,185' - 2,450'

Cement 2,340' - 2,060'

Cement 900' - 800'

Cement 300' - Surface

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WR-35

11-4-93
10-Sep-93
API # 47- 91-00890

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

COPY

Well Operator's Report of Well Work

Farm name: HOVATER, TEDDIE R. Operator Well No.: HOVATER#1-E316

LOCATION: Elevation: 1,617.00 Quadrangle: GLADESVILLE

District: FETTERMAN County: TAYLOR
Latitude: 5640 Feet South of 39 Deg. 25Min. Sec.
Longitude 7890 Feet West of 79 Deg. 55 Min. Sec.

Company: EXPLORATION PARTNERS PROD
P. O. BOX 1245
BRIDGEPORT, WV 26330-1245

Agent: LOUIS A. FERRARI

Inspector: PHILLIP TRACY
Permit Issued: 09/13/93
Well work Commenced: 10/27/93
Well work Completed: 10/31/93
Verbal Plugging
Permission granted on: _____
Rotary x Cable _____ Rig
Total Depth (feet) 3408 DTD
Fresh water depths (ft) _____
45, 420
Salt water depths (ft) _____
N/A
Is coal being mined in area (Y/N)? _____
Coal Depths (ft): 196-199, 261-66

Casing & Tubing Size	Used in Drilling	Left in Well	Cement Fill Up Cu. Ft.
11 3/4"	133'	133'	80 sks
8 5/8"	1055'	1055'	307 sks
4 1/2"	3195'	3195'	440 sks

OPEN FLOW DATA

Producing formation Speechley, Bayard Pay zone depth (ft) 2566-3104
Gas: Initial open flow show MCF/d Oil: Initial open flow N/A Bbl/d
Final open flow 750 MCF/d Final open flow N/A Bbl/d
Time of open flow between initial and final tests 18 Hours
Static rock Pressure 500 psig (surface pressure) after 24 Hours

Second producing formation 4th, L. 4th Pay zone depth (ft) 2204-2285
Gas: Initial open flow show MCF/d Oil: Initial open flow N/A Bbl/d
Final open flow comingled MCF/d Final open flow N/A Bbl/d
Time of open flow between initial and final tests 18 Hours
Static rock Pressure comingled psig (surface pressure) after 24 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: EXPLORATION PARTNERS PRODUCING CO.

By: Louis A. Ferrari
Date: November 4, 1993

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91-00 890P

FORM IV-35
(REVERSE)

DETAILS OF PERFORATED INTERVALS, FRACTURING OR STIMULATING, PHYSICAL CHANGE, ETC.
 Stage I. (2566-3104) 15 holes, 750 gal 15% HCL, 300 sks sand, 560 BBL 75Q N2 foam
 Stage II. (2204-2285) 20 holes, 500 gal 15% HCL, 500 sks sand, 650 BBL 75Q N2 foam

WELL LOG

FORMATION COLOR HARD OR SOFT	TOP FEET	BOTTOM FEET	REMARKS Including indication of all fresh and salt water, coal and gas
Sand & Shale	0	50	1/4" H2O @ 45'
Sand	50	196	
Coal	196	199	
Shale	199	219	
Sand	219	261	
Coal	261	266	
Sand & Shale	266	507	Damp @ 420'
Sand	507	663	
Sand & Shale	663	868	
Red Rock	868	873	
Shale	873	1112	
T. Lime	1112	1122	
Shale	1122	1166	
B. Lime	1166	1235	
B. Injun	1235	1383	
Shale	1383	1440	
Weir	1440	1480	
Shale	1480	1650	
Gantz	1650	1700	
Shale	1700	1740	
50' Sand	1740	1780	
Sand & Shale	1780	2200	
4th Sand	2200	2230	Gas show
Shale	2230	2260	
J. 4th Sand	2260	2290	
Shale	2290	2320	
5th Sand	2320	2370	
Shale	2370	2560	
Bayard	2560	2570	
Shale	2570	3010	
Speechely	3010	3106	Gas show
Shale	3106	3408	DTD

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WW-4A
Revised 6-07

1) Date: 7/12/18
2) Operator's Well Number
Hovater 1-E-316

3) API Well No.: 47 - 091 - 00890

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

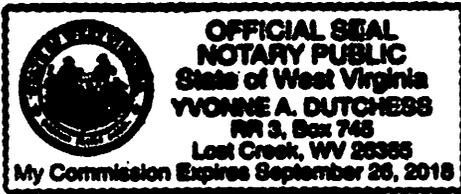
4) Surface Owner(s) to be served:	5) (a) Coal Operator
(a) Name <u>Margaret Joan Hovatter</u>	Name <u>N/A</u>
Address <u>Neil & Georgia Hovatter</u>	Address _____
<u>5509 Victory Ave.</u>	
(b) Name <u>Grafton, WV 26354</u>	(b) Coal Owner(s) with Declaration
Address _____	Name _____
	Address <u>N/A</u>
(c) Name _____	Name _____
Address _____	Address _____
6) Inspector <u>Kenneth Greynolds</u>	(c) Coal Lessee with Declaration
Address <u>613 Broad Run Road</u>	Name _____
<u>Jane Lew, WV 26378</u>	Address _____
Telephone <u>304-206-6613</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: Regulatory Coordinator
 Address PO Box 1008
Jane Lew, WV 26378
 Telephone 304-884-6000

Subscribed and sworn before me this 12 day of July 2018
Yvonne A. Dutches Notary Public
 My Commission Expires September 26, 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.

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Form WW-9

Operator's Well No. Movater 1-E-316

Proposed Revegetation Treatment: Acres Disturbed 1.16 +/- Prevegetation pH _____

Lime 2 Tons/acre or to correct to pH _____

Fertilizer type 10-20-10

Fertilizer amount 1000 lbs/acre

Mulch 2 Tons/acre

Seed Mixtures

Temporary		Permanent	
Seed Type	lbs/acre	Seed Type	lbs/acre
Kentucky Bluegrass	30	Kentucky Bluegrass	30
Redtop	5	Redtop	5
Birdsfoot Trefoil	15	Birdsfoot Trefoil	15

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: RECLAIM, SEED AND MULCH ASAP

Title: OIL + GAS INSPECTOR Date: 7-12-18

Field Reviewed? () Yes () No

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

Operator Name: XTO Energy Inc.

Watershed (HUC 10): 0502000107 Lower Tygart Valley River Quad: Gladesville

Farm Name: Movater, Teddie R.

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

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

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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: *Tim Lee*

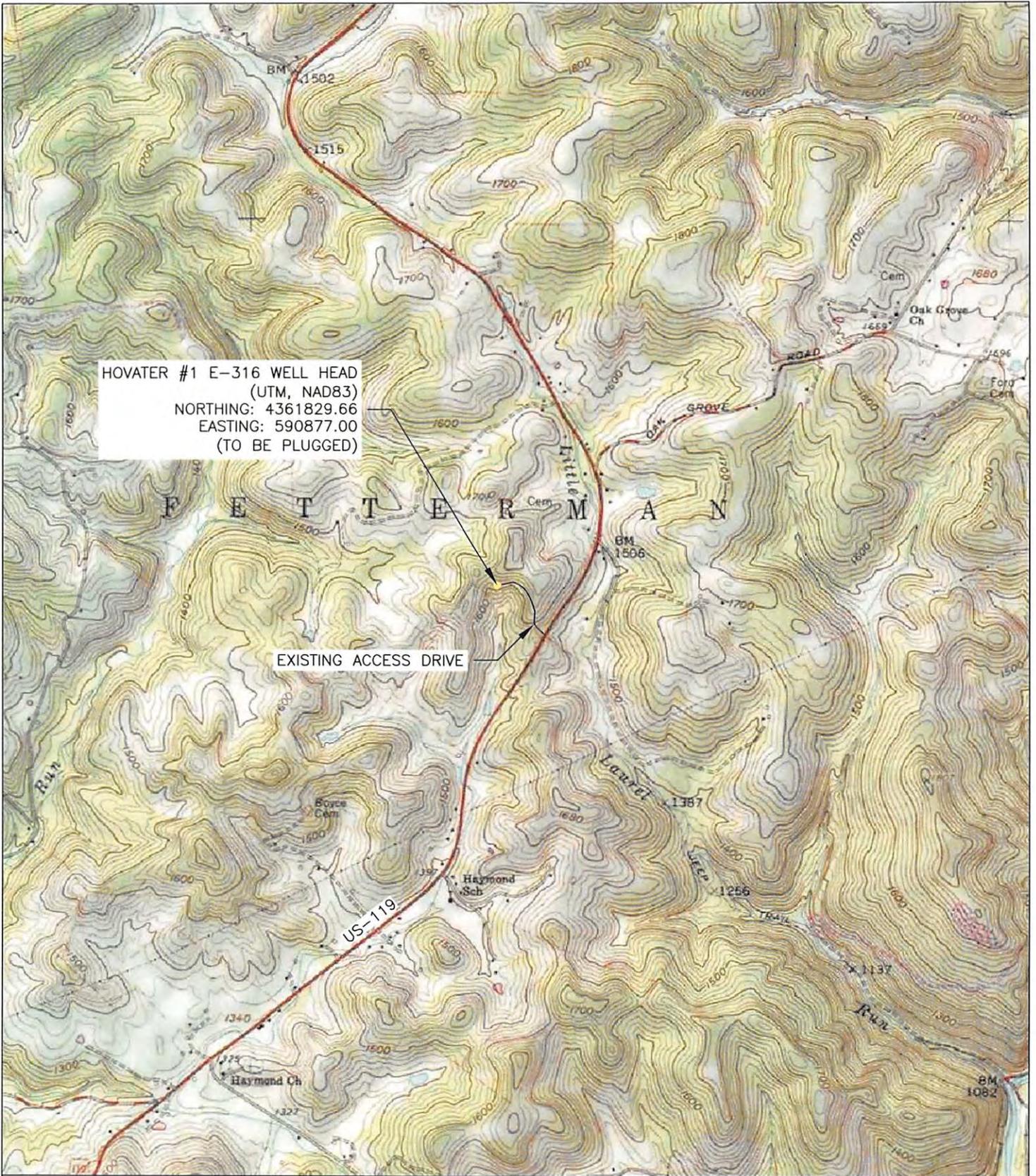
Date: 6/28/18

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HOVATER #1 E-316 WELL HEAD
 (UTM, NAD83)
 NORTHING: 4361829.66
 EASTING: 590877.00
 (TO BE PLUGGED)

EXISTING ACCESS DRIVE

SCALES
 HORIZ: 1"=2000'
 VERT:
 CONTOUR INT: 20'

DESN BY: SDG
 DRWN BY: SDG
 RVWD BY: MMV
 FLD BK:
 BK PG:
 DATE: 06/12/18

REV. BY:	DATE:	DESC.:

SHEET NUMBER:
 1 OF 1

USGS MAP - GLADESVILLE QUADRANGLE
HOVATER #1 E-316
 FOR: XTO ENERGY, INC.
 US-119, TAYLOR COUNTY, WEST VIRGINIA



MORRIS KNOWLES & ASSOCIATES, INC.
 A HAMMONTREE COMPANY
 ENGINEERS, PLANNERS, SURVEYORS
 443 ATHENA DRIVE DELMONT, PA 15626
 PHN: (724) 468-4624 FAX: (724) 468-8910
 www.morri-kn.com

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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: 47-091-00890 WELL NO.: Hovater 1-E-316

FARM NAME: Hovater, Teddie R.

RESPONSIBLE PARTY NAME: XTO Energy, Inc.

COUNTY: Taylor DISTRICT: Fetterman

QUADRANGLE: Gladesville

SURFACE OWNER: Hovatter, Margaret Joan

ROYALTY OWNER: See attached

UTM GPS NORTHING: 4361829.66

UTM GPS EASTING: 590877.00 GPS ELEVATION: 497.74/1633'

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.

Jim Aash Regulatory Coordinator 6/28/18
Signature Title Date

08/10/2018

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