



COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION
OIL AND GAS MANAGEMENT PROGRAM

WELL PERMIT

DEP USE ONLY	
Permittee's eFACTS ID 265476	Auth ID 1209841
Watershed Name Little Mahoning Creek	Quality HQ

Permittee XTO ENERGY INC		OGO.# OGO-38958	Permit Number 37-063-37525-00-00	Date Issued 03/05/2018
Address 190 THORN HILL ROAD		Farm Name & Well Number POLLOCK 1HU		Well Serial #
		Municipality West Mahoning Twp	County Indiana	
WARRENDALE, PA 15086		7 1/2' Quadrangle Name Plumville	Map Section # 3	
Phone (724) 772-3500	Project #		Latitude 40-52-17.4684	Longitude -79-8-3.8184
Surf Elev at Site 1581 feet	Anticipated Maximum TVD 13200 feet	Well Type GS	Offset distances referenced to NE corner of map section. South 1269 feet West 2598 feet	

This permit covering the well operator and well location shown above is evidence of permission granted to conduct activities in accordance with the Oil and Gas Act and the Oil and Gas Conservation Law, if the well is subject to that act and any rules and regulations promulgated thereunder, subject to the conditions contained herein and in accordance with the application submitted for this permit. This permit does not convey any property rights.

This permit and the permittee's authority to conduct the activities authorized by this permit are conditioned upon operator's compliance with applicable law and regulations.

Notification must be given to the district oil and gas inspector, the surface landowner and political subdivision of the date well drilling will begin at least 24 hours prior to commencement of drilling activities.

The permittee hereby authorizes and consents to allow, without delay, employees or agents of the Department to have access to and to inspect all areas upon presentation of appropriate credentials, without advance notice or a search warrant. This includes any property, facility, operation or activity governed by the Oil and Gas Act, the Oil and Gas Conservation Law, the Coal and Gas Resource Coordination Act and other statutes applicable to oil and gas activities administered by the Department. The authorization and consent shall include consent to the Department to collect samples of wastewaters or gases, to take photographs, to perform measurements, surveys, and other tests, to inspect any monitoring equipment, to inspect the methods of operation and disposal, and to inspect and copy documents required by the Department to be maintained. The authorization and consent includes consent to the Department to examine books, papers, and records pertinent to any matter under investigation pursuant to the Oil and Gas Act or pertinent to a determination of whether the operator is in compliance with the above referenced statutes. This condition in no way limits any other powers granted to the Department under the Oil and Gas Act and other statutes, rules and regulations applicable to these activities as administered by the Department.

This permit does not relieve the operator from the obligation to comply with the Clean Streams Law and all statutes, rules and regulations administered by the Department.

Special Permit Conditions:

The permittee shall not withdraw or use water from water sources within the Commonwealth of Pennsylvania to hydraulically fracture an unconventional formation unless the permittee does so in accordance with a Water Management Plan approved by the Department.

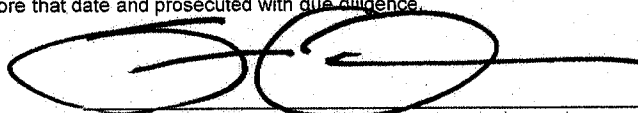
Any dam embankment utilized to impound freshwater or other fluids approved by the Department associated with drilling and hydraulic fracturing not requiring a permit pursuant to 25 Pa. Code Chapter 105 will be constructed in accordance with Department guidelines 5500-PM-OG0085 entitled, Design, construction and maintenance standards for dam embankments associated with impoundments for oil and gas wells."

Prior to setting casing/tubing in or producing from the shale lateral, the vertical portion of the hole, if it extends below the Kick-Off Point (KOP), must be plugged back to the KOP according to the requirements of §§ 78a.91 through 78a.95. The procedure used to plug this section of the well will be submitted with or as part of the Well Record and Completion Report.

The Operator shall run a complete angular deviation survey of the intentionally deviated well and submit it to the Department with the other information required in the Well Record. The deviation survey is to be obtained by a responsible well surveying company and shall include a well location plat and vertical section of the borehole as drilled that shows comparison to the well location plat and vertical section as permitted. One copy shall be submitted to the Department and one copy shall be submitted to the Bureau of Topographic and Geologic Survey (500 Waterfront Dr., Pittsburgh, PA 15222).

37-063-37525-00-00

This permit expires 03/05/2019 unless drilling is commenced on or before that date and prosecuted with due diligence.



Regional Oil and Gas Program Manager

JASON J BRANAN

131 BROADVIEW RD
NEW STANTON, PA 15672

724-925-5429

Oil & Gas Inspector

Address

Phone Number



pennsylvania

DEPARTMENT OF ENVIRONMENTAL
PROTECTION

OIL & GAS MANAGEMENT

SOUTHWEST REGIONAL OFFICE

RE: Special Protection Watershed

Dear Well Operator:

This is to inform you that the location of the well on the enclosed well permit is in a Special Protection Watershed. Special Protection Watersheds are drainage areas to streams which are classified by the Environmental Quality Board as either High Quality or Exceptional Value due to their unique characteristics or sensitive use. Special Protection Watersheds are high priority areas for the Department's water pollution control activities.

The above information is being provided to remind you of the necessity to adequately control and dispose of waste fluids generated from your activities at this location. It is expected that you will conduct your activities with these concerns in mind.

Sincerely,

A handwritten signature in cursive script that reads "Thomas Donohue".

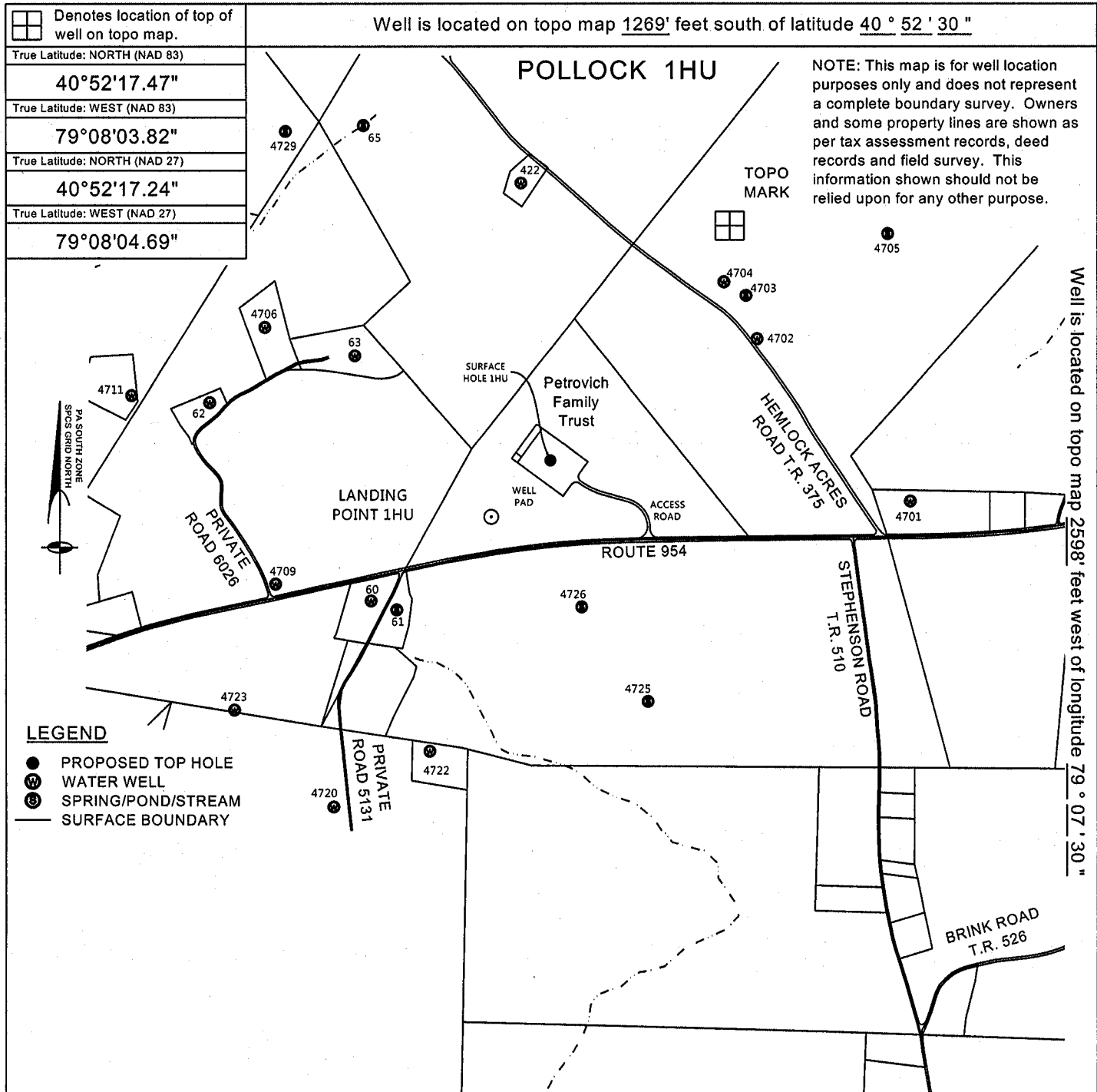
Thomas Donohue
Professional Geologist Manager

cc: File



COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION
OFFICE OF OIL AND GAS MANAGEMENT
WELL LOCATION PLAT
PAGE 1 Surface Location

Auth ID #: **37-063**
Permit #: **37525**
Project #: **00-00**



Applicant/Well Operator Name: XTO ENERGY INC.		DEP ID # 265476	Well (Farm) Name: POLLOCK		Well #: 1HU	Serial #:
Address: 190 THORN HILL ROAD, WARRENDALE, PA. 15086			County: INDIANA	Municipality: WEST MAHONING TWP	Well Type: GAS	
911 Address of well site: 24447 ROUTE 954 HWY N, SMICKSBURG, PA. 16256			USGS 7½' Quadrangle Map Name: PLUMVILLE	Map Section: 3	Surface Elevation: 1581 ft.	
Surveyor: RYAN JONES SU075334	Phone #: 724-757-2417	Dwg #: 1HU	Date: 11/20/2017	Scale: 1"=1000'	Tract Acreage: 183 ACRES	
Lat. & Long Metadata Method: DIRECT GPS	Accuracy: SUB-CENTIMETER	Datum: NAD 1983	Elevation Metadata Method: DIRECT GPS	Accuracy: SUB-CENTIMETER	Datum: NAVD 1988	Survey Date: 9/20/2017

WELL LOCATION PLAT

PAGE 2 Notifications

DEP Statewide toll-free phone number for reporting cases of water contamination which may be associated with development of oil and gas resources is 1-866-255-5158 .

Applicant/Well Operator Name: XTO ENERGY INC.		DEP ID# 265476	Well (Farm) Name Pollock		Well # 1HU	Serial #
Surface Landowner/Lessor: Petrovich Family Trust			Angle & Course of Deviation (Drilling): S 34°07'50" E	Anticipated True Vertical Depth Feet (TVD): 13,200'	Anticipated Total Measured Depth Feet (TMD): 24,232'	
Target Formation(s): Point Pleasant			Deepest Formation to be penetrated: Point Pleasant	Number of Laterals: 1	Total footage to be drilled all laterals: 24,232'	
Surface Owner/Water Purveyor w/Water Supply within 1000'/3000'				Latitude Longitude of Water Supply		
Point #	Name	Distance (ft)				
4726	Ben O Miller et ux	1,051	40°52'07.35"		79°08'00.73"	
4725	Ben O Miller et ux	1,831	40°52'00.81"		79°07'54.50"	
61	Edward E Evans et ux	1,509	40°52'06.93"		79°08'17.71"	
63	Henry H Byler et ux	1,561	40°52'24.51"		79°08'21.90"	
60	Michael A DeFelice	1,603	40°52'07.53"		79°08'20.07"	
4702	Petrovich Family Trust	1,689	40°52'26.16"		79°07'45.05"	
4704	Petrovich Family Trust	1,752	40°52'30.05"		79°07'48.16"	
4703	Petrovich Family Trust	1,801	40°52'29.14"		79°07'46.13"	
4705	Petrovich Family Trust	2,858	40°52'33.58"		79°07'33.27"	
422	David D Miller et ux	1,964	40°52'36.73"		79°08'06.92"	
65	David D Miller et ux	2,704	40°52'40.60"		79°08'21.43"	
4709	Jake E Troyer et ux	2,118	40°52'08.59"		79°08'28.79"	
4706	David J Kurtz et ux	2,215	40°52'26.40"		79°08'30.14"	
4722	Elizabeth Kuhns et al	2,218	40°51'57.10"		79°08'14.50"	
62	Jonathan A Miller et ux	2,431	40°52'21.12"		79°08'35.09"	
4701	Jake H Byler et ux	2,547	40°52'15.06"		79°07'30.82"	
64	Owen O Miller et ux	2,715	40°52'32.32"		79°08'33.25"	
4723	Noah M Troyer et ux	2,834	40°51'59.74"		79°08'32.38"	
4720	Eli A Miller et ux	2,878	40°51'53.12"		79°08'23.18"	
4729	Levi D Miller et ux	2,976	40°52'40.11"		79°08'28.53"	
4711	Mahlon D Hostetler et ux	2,987	40°52'21.52"		79°08'42.33"	
Municipality: where the well will be drilled, adjacent to the well, or within 3000 feet			Municipality: where the well will be drilled, adjacent to the well, or within 3000 feet			
West Mahoning Township			Cowanshannock Township			
North Mahoning Borough			Porter Township			
East Mahoning Township			Perry Township & Smicksburg Borough			
South Mahoning Township			Coal related parties			
Wayne Township			Petrovich Family Trust (Owners) All Seams			

WELL LOCATION PLAT

Page 3 Plan View of Horizontal Well Bore

If well has a lateral other than vertical show the bottom hole location on the plat drawing ⊗ and include the Coordinates in the provided section at the top of the drawing area. The top hole and bottom hole locations are to be connected by a bolded line. This is to depict the proposed courses of the actual wellbore to be drilled.

