



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

**WELL PERMIT  
MODIFICATION**

DEP USE ONLY	
Permittee's eFACTS ID <b>268470</b>	Auth ID <b>1231758</b>
Watershed Name <b>TURKEY HOLLOW</b>	Quality <b>HQ</b>

Permittee <b>RICE DRILLING B LLC</b>		OGO.# <b>OGO-39054</b>	Permit Number <b>37-059-27486-00-01</b>	Date Issued <b>08/13/2018</b>
Address <b>2400 ANSYS DRIVE</b>		Farm Name & Well Number <b>THUNDER 1 20</b>		Well Serial #
SUITE 200		Municipality <b>Center Twp</b>	County <b>Greene</b>	
CANONSBURG, PA 15317		7½' Quadrangle Name <b>Holbrook</b>		Map Section # <b>6</b>
Phone <b>(724) 809-5469</b>	Project #		Latitude <b>39-49-36.9100</b>	Longitude <b>-80-16-45.2500</b>
Surf Elev at Site <b>1410 feet</b>	Anticipated Maximum TVD <b>8026 feet</b>	Well Type <b>GS</b>	Offset distances referenced to NE corner of map section. <b>South 2340 feet      West 8220 feet</b>	

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:

1. 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."

2. 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.

3. The earth disturbance activity at this site, related to this permit, may only be conducted under an approved ESCGP permit.

4. The operator shall run a complete angular deviation survey of the intentionally deviated well. The deviation survey is to be obtained by a responsible well surveying company and shall be filed with the Department within thirty (30) days after drilling is completed along with other regularly required reports. The deviation report shall include a well location plat and vertical section of the borehole as drilled.

NOTE: WELL IS LOCATED WITHIN 1,000 FEET OF THE OUTSIDE COAL BOUNDARIES OF THE OPERATING CUMBERLAND COAL MINE (PITTSBURGH SEAM).

NOTE: WELL IS LOCATED WITHIN THE COAL BOUNDARIES OF THE PROPOSED FOUNDATION COAL MINE (PITTSBURGH SEAM).

This permit expires 08/13/2019 unless drilling is commenced on or before that date and prosecuted with due diligence.

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Regional Oil and Gas Program Manager

JOEL M KELLER

25 TECHNOLOGY DRIVE  
COAL CENTER, PA 15423

724-769-1052

Oil & Gas Inspector

Address

Phone Number