



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

DEP USE ONLY
Application Tracking # 1584662

Proposed Alternate Method or Material for Casing, Plugging, Venting or Equipping a Well

Well Operator Diversified Production LLC		DEP ID# 65675		Well Permit or Registration Number 37-085-21460	
Address 395 Airport Road				Well Farm Name Firth Unit	
City Indiana	State PA	Zip Code 15701	Well # 5	Serial #	
Phone Northern PA 724-422-7878 Southern PA 724-397-5333	Fax N/A	County Mercer	Municipality East Lackawannock		

A proposed alternate method is subject to provisions in §3221 of the 2012 Oil and Gas Act, 58 Pa. C.S. §3221 Section 13 of the Coal and Gas Resource Coordination Act, 58 P.S. §513 and 25 PA Code §§78.75-78.75a (relating to Alternate Methods.) Attach proof of notification of coal operator(s).

Describe in reasonable detail using a written description and / or diagram:

- 1. the proposed alternate method or materials, and**
- 2. the manner in which the alternative will satisfy the goals of the laws and regulations.**

Firth Unit 5 well- API 37-085-21460. The well had stuck 1 1/2" tubing in the well, and we ran sand line tools in the tubing and got in some tight spots about 4720' or so but got sand line worked down to a solid tag at 5676, but was not able to pump down through the tubing. We went in well, cut at 4800', tubing, would not budge. We were able to cut tubing at about 4705', had to work pipe to get free. Tripped tubing out of the well. We then went in the well with a mill on bottom. We made it down to about 4690-4695', then started torquing up, and stalling the power swivel a few times at about 1100#. This indicated the potential of collapsed casing in the lower salt section of the well. Our concern was not to forfeit any remaining casing/wellbore integrity by continuing to mill. We had not encountered any gas shows as we progressed to this point on the well.

Proposed alternate method: 1st, We request attainable bottom at 4705'. Went in hole with an inside tubing cutter, tried to cut at 4800', tubing was still hung. Second attempt, we were able to cut tubing below a collar at 4705', at a tight spot in the casing, had to work tubing to get free (pulled 10K over string weight), then pulled 4705' of 1 1/2" tubing. Ran a bond log and found some cement at 4690', and a little tight debris area behind casing. We were able to cut 4 1/2" casing at about 4650', casing pulled free after pulling 16K over string weight.

FYI: Marcellus 3890' -4050, Big Lime at 4050-4207', Oriskany at 4207-4226, Bass Islands Formation at 4352 to 4392'.

Will set a 1200' plug (360 SXS/ 2 stages) in 7 7/8" open hole from 4650 to 3450', 400' above Marcellus. Will tag cement plug, to see if we need to set another plug. Will tag each cement plug to ensure the plug is at an appropriate depth. There will be a gel spacer spotted from 3,450' up to 984', then we set a Class A cement surface casing plug from 984' to 784'. We will tag cement top on the final plug and the well will be checked for gas. Pea Gravel will be installed in the well from the top of surface casing plug to surface. After everything is verified, the well casing will be cut off 3' below grade and well will have a well ID plate welded on, with API #37-085-21460 welded on the plate.

Optional: Approval by Coal Owner or Operator		Signature of Applicant / Well Operator	
Signature	Date 9/18/2026	Signature <i>John Rice</i>	Date 9/17/2026
Print or Type Signer's Name and Title		Print or Type Signer's Name and Title John Rice, Project Manager	

If optional approval is signed by coal owner or operator, the 15-day objection period may be waived.

DEP USE ONLY	
Approved by (DEP Manager) OGI - Thomas Antonishak	Conditions ☐ YES, See Attached ☒ NO
Date 9/18/2026	