



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

DEP USE ONLY
Application Tracking # 1578510

Electronically Received 7/30/26
7/31/26 dg
OGO-8809 Natl Fuel Gas Supply
Client 74892
Site 169417

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

Well Operator National Fuel Gas Supply Corporation		DEP ID# 74892		Well Permit or Registration Number 37-085-20788	
Address Gas Storage Department, 6363 Main Street		Well Farm Name R.D. EPERTHENER 2542			
City Williamsville	State NY	Zip Code 14221	Well # 2542		Serial #
Phone 716-857-7465	Fax	County MERCER		Municipality WORTH	

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.**

Henderson 2542 is a gas storage observation well in National Fuel's Henderson storage field. The original depth was 896'. The storage formations are the Upper 1st. Venango (572' - 579'), the Lower 1st. Venango (605' - 617'), and the 3rd Venango (831' - 851'). Historical records indicate the well was previously plugged back with a mechanical bridge plug which was set at 549' and cement from 426' - 549'. There is a 4.5" x 6.25" packer set inside the 6 5/8" surface casing at 267'.

As outlined in the original procedure, the plan was to release and pull the packer and 4.5" casing. Upon commencing operations, it was determined that the packer was set in tension. After multiple days of attempting to release the packer and no movement, wireline was mobilized to gauge the open hole, determine the top of the existing cement plug (422'), and confirm the depth of the packer (264'). Once additional information was gathered and after another attempt to release the packer, it was determined that an alternative method is necessary to complete this well. Per consulting the regional DEP Inspector, Thomas Antonishak, and proposing an alternative method to plug & abandon the well, verbal approval was provided to proceed with submitting this alternative method of plugging from an attainable depth of 422'.

Proposed alternative method of plugging: tag top of the existing cement plug with tubing, spot a cement plug from TOC to the bottom of the packer, wait on cement 12 hrs, tag TOC and confirm cement is at the bottom of the packer and across the 6 5/8" surface casing shoe, mechanically cut and pull the 4.5" casing leaving a short stub, spot a cement plug from the top of the packer to 100', wait on cement for 12 hrs, tag TOC, fill remainder of the wellbore with pea gravel, and install a vent marker.

Actions taken prior to seeking alternative method: attempt to rotate and release the packer slips, attempt to push and pull the packer, and attempt to gain circulation.

Concerns with continuing to attempt releasing the packer: compromising the 6 5/8" surface casing, causing mechanical damage to the existing 4.5" casing & packer, and safety concerns.

Optional: Approval by Coal Owner or Operator		Signature of Applicant / Well Operator	
Signature	Date	Signature	Date
		<i>Mackenzie J. Adamson</i>	7/30/2026
Print or Type Signer's Name and Title		Print or Type Signer's Name and Title	
		Mackenzie J. Adamson Senior Geologist	

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

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Approved by (DEP Manager) OGI - Thomas Antonishak	Conditions ☐ YES, See Attached ☒ NO Date 07/31/2026