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ALT SITE ID: WLPAD - CONNER SAMUEL 17458 WELL PAD

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

|                                   |
|-----------------------------------|
| DEP USE ONLY                      |
| Application Tracking #<br>1571130 |

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

|                                                  |             |                      |                       |                                                    |  |
|--------------------------------------------------|-------------|----------------------|-----------------------|----------------------------------------------------|--|
| Well Operator<br>Range Resources Appalachia, LLC |             | DEP ID#<br>141142    |                       | Well Permit or Registration Number<br>37-125-29292 |  |
| Address<br>3000 Town Center Blvd.                |             |                      |                       | Well Farm Name<br>CONNER SAMUEL 17458              |  |
| City<br>Canonsburg                               | State<br>PA | Zip Code<br>15317    | Well #<br>8H          | Serial #                                           |  |
| Phone<br>724-743-6700                            | Fax         | County<br>Washington | Municipality<br>Cecil |                                                    |  |

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.

The CONNER SAMUEL pad is in a known mined out area. The Pittsburgh Coal is greater than 28" thick and is anticipated to be mined out. The estimated top is at 274' GL. No other workable coal seams other than the Pittsburgh Coal are present. On 2025 visit the CONNER SAMUEL 1H, 2H, 3H, 4H, and 5H returns were maintained on all cement jobs and there was no fresh water observed while drilling the wells. A mine balance cement job is anticipated to be required on the 13-3/8" Coal Protective casing string. The deepest theoretical fresh groundwater (DFGW) within a 2,500' radius of the CONNER SAMUEL pad is correlated to a depth of 217' GL which is approximately 57' above the top of the mine void. Currently, it is not possible to set a water string at least 50' below the correlated DFGW, as well as leave enough room from the surface casing string shoe and the top of the mine for proper placement of mine baskets on the coal protective casing string (per Chapter §78a.83(c) & §78a.83(h) as shown below). Providing ample space between the surface casing seat and top of the mine will allow for the best cement coverage and isolation between correlated DFGW and the mined-out coal. With this alternate method, we are requesting to set a surface casing string less than 50' below the DFGW but as close to the mine void as possible due to the proximity of DFGW and the estimated top of the mine void.

§78a.83. Surface and coal protective casing and cementing procedures.

(c.) The operator shall drill to approximately 50 feet below the deepest fresh groundwater or at least 50 feet into consolidated rock, whichever is deeper, and immediately set and permanently cement a string of surface casing to that depth.

(h) Unless an alternative method has been approved by the Department in accordance with § 78a.75 (relating to alternative methods), when a well is drilled through a coal seam at a location where the coal has been removed or when a well is drilled through a coal pillar, the operator shall drill to a depth of at least 30 feet but no more than 50 feet deeper than the bottom of the coal seam. The operator shall set and cement a coal protection string of casing to this depth. The operator shall equip the casing with a cement basket or other similar device above and as close to the top of the coal seam as practical.

|                                                     |      |                                                                                 |                   |
|-----------------------------------------------------|------|---------------------------------------------------------------------------------|-------------------|
| <b>Optional: Approval by Coal Owner or Operator</b> |      | <b>Signature of Applicant / Well Operator</b>                                   |                   |
| Signature                                           | Date | Signature<br><i>Drew Gabrielson</i>                                             | Date<br>5/19/2026 |
| Print or Type Signer's Name and Title               |      | Print or Type Signer's Name and Title<br>Drew Gabrielson- Operations Engineer I |                   |

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

|                               |                                                                                                           |
|-------------------------------|-----------------------------------------------------------------------------------------------------------|
| <b>DEP USE ONLY</b>           |                                                                                                           |
| Approved by (DEP Manager)<br> | Conditions<br><input checked="checked" type="checkbox"/> YES, See Attached<br><input type="checkbox"/> NO |
| Date<br>6/25/2026             |                                                                                                           |