



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

MA: 1209703

DEP USE ONLY
Application Tracking # 1236236

Site: 767859
Client: 141142
APS: 956859
PF: 823333
SF: 1250072

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

Well Operator Range Resources - Appalachia, LLC		DEP ID# 141142	Well Permit or Registration Number 37-125-28517	
Address 3000 Town Center Blvd.			Well Farm Name SASSO LEONARD UNIT	
City Canonsburg	State PA	Zip Code 15317	Well # 12H	Serial #
Phone 724-743-6715	Fax	County Washington	Municipality Smith Twp.	

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.

PA Code Title 25 Chapter 78a, 78a.85 (c) (2) and (4) prohibits an operator from disturbing, releasing pressure, or nipping up within 8 hours of cementing a casing string. Range Resources LLC is requesting approval to perform surface work on the wellhead prior to waiting 8 hours.

Range Resources LLC will utilize a style of wellhead (FMC UHS with 13-3/8" Landing Ring) which encompasses three strings of casing (mine, intermediate, and production). The casing weight is suspended at surface within the wellhead by way of a landing ring on the previously set string of casing. This results in the cement no longer needing to devote early strength development to support the weight of the casing while curing. Current operations require casing to be stabilized through the drilling rig floor. The proposed style of wellhead stabilizes casing within the wellhead. This would allow for the removal of cementing equipment and the installation of wellhead equipment which is required for the next phase of drilling operations. This equipment can include but is not limited to BOP equipment, flowline, and associated piping.

Currently, surface equipment cannot be installed until at least 8 hours after cement has been displaced without disturbing the cemented casing. Utilizing the new style of wellhead (FMC UHS with 13-3/8" Landing Ring), would allow the surface work requested to occur without disturbing the cemented subsurface portion of the casing.

JUL 11 2018

Optional: Approval by Coal Owner or Operator		Signature of Applicant / Well Operator	
Signature	Date	Signature	Date
			06/12/18
Print or Type Signer's Name and Title		Print or Type Signer's Name and Title	
		Randi Ferreira, Drilling Engineer	

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)	Conditions	Date
	<input checked="" type="checkbox"/> YES, See Attached <input type="checkbox"/> NO	7/23/18

(OGI)- Eric Peterson

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

Range Resources Appalachia, LLC Amwell Township, Washington County

Farm Name & Well Number: Sasso Leonard Unit 12H AUTH # 1236236
125-28517

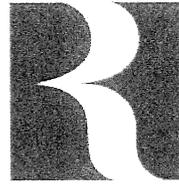
This Alternate Method is approved for work at the surface ONLY. Range may not run anything downhole, including not drilling out the shoe, prior to 8 hours.



DANIEL F. COUNAHAN

DISTRICT MANAGER

7/23/18
DATE



RANGE RESOURCES®

June 10, 2018

Department of Environmental Protection
SW Regional Office - Oil & Gas
400 Waterfront Drive
Pittsburgh, PA 15222-4745

RE: Sasso Leonard 1H - 5H & 11H & 12H and Mizia James 11676 2H - 5H & 11H

Gentlemen:

Enclosed are the completed "Proposed Alternate Method or Material for Casing, Plugging, Venting or Equipping a Well" for the subject wells.

If you have any questions, please do not hesitate to contact me.

I can be reached at (724) 743-6496.

Sincerely,

Randi Ferreira
Drilling Engineer

Enclosures

