

**INSPECTION REPORT  
 STIMULATION**
**DEP USE  
 ONLY**

 Inspection Record  
 No.  
 3816310

 Complaint Record  
 No.

 Enforcement Record  
 No.

DEP Office	California Oil & Gas Office		Telephone No.: (724) 769-1100	Permit or Reg. No.:	125-29100		
Address	25 Technology Drive, California Technology Park		Fax No.: ----	Project No.: ----	WellPad: AUGUSTINE GEORGE 11039		
	Coal Center, PA 15423			Farm Name and Well No.:	AUGUSTINE GEORGE 11039 6H		
Operator Name	RANGE RESOURCES APPALACHIA LLC			County	Washington		
Address	3000 TOWN CENTER BLVD CANONSBURG, PA 15317-5839			Municipality	Cecil Township		
	----			Latitude (DD)	40.333370		
OGO No.	OGO-60915	Client ID No.	141142	Longitude (DD)	-80.206650		
Drilling Rig / Type	----						
Facility Type	----		Producing Formation	----			
Other	<input type="checkbox"/> Permit Expired	<input type="checkbox"/> Alt / Meth	<input type="checkbox"/> Annulus Open	<input type="checkbox"/> Conductor Only	Spud Date: 2023-12- 20	<input type="checkbox"/> Coal	<input checked="" type="checkbox"/> Non- Coal

Remarks / Violations					
Category	Sub-Category	Inspection Remarks / Violations / Violation Remarks	I	R	V
Location					

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## Stimulation

1: Notification  
Casing**Inspection Remark:** The Operators failed to notify the  
Department in a manner consistent with Chapter 78a.73(c).

NEW

**Violation:**78A73(C)\_\_\_ - GENERAL PROVISION FOR WELL  
CONSTRUCTION AND OPERATION – The operator failed to  
immediately electronically notify the Department of any change  
to a well being monitored, of any treatment pressure or volume  
changes indicative of abnormal fracture propagation at the well  
being stimulated or if otherwise made aware of a confirmed well  
communication incident associated with their stimulation  
activities.**Violation Date:** 2024-08-13**Violation Comments:** The Department was not immediately  
notified when anomalous pressures were observed during  
stimulation activities as required per 78a73(c).1: Other  
Mechanical  
Integrity**Inspection Remark:**

NEW

**Violation:**78a73(a) - GENERAL PROVISION FOR WELL  
CONSTRUCTION AND OPERATION - Operator failed to  
construct and operate the well in accordance with 25 Pa. Code  
Chapter 78a and ensure that the integrity of the well is  
maintained and health, safety, environment and property are  
protected.**Violation Date:** 2024-08-13**Violation Comments:** A failure of the production casing was  
observed during stimulation activities.Waste  
Management

Other

**Well Information**

<b>Well Status</b>		<b>Wells on Location</b>	
<b>Well Type</b>		<b>AOR Report</b>	<input type="checkbox"/> Yes <input type="checkbox"/> No
<b>Target Formation</b>	Marcellus	<b>AOR Monitoring</b>	<input type="checkbox"/> Yes <input type="checkbox"/> No
<b>Toe Prep</b>	<input type="checkbox"/> Yes <input type="checkbox"/> No	<b>Pressure Test</b>	<input type="checkbox"/> Yes <input type="checkbox"/> No

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Stimulation Stages		
Stimulation Type	Entered Value	Comment
Hydraulic Fracturing		
Stages	79	
Current Stage	64	
Proppant	Sand	
Radio-Active Tracers		
Distance between Stages	ft	
Length of Stage	200 ft	
Breakdown Pressure	5890 psi	
Pump Pressure	psi	
Shut In Pressure	2157 psi	Avg pressure while tripping out.
Treatment Pressure	psi	
Working Pressure	psi	
Pump Rate	bbbl/m	
Treatment Volume/ Stage		
Notches		
Perforations	42	Six clusters, 42 total.
Offset Well Pad Monitoring		

Additional Information	
Adjacent Well Monitoring Same Pad	<input type="checkbox"/> Yes <input type="checkbox"/> No
Service Company	
Additional Comments	

Photos Attached	Additional Documents	WQS follow up	Inspection Results
<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No	VIOLS - Violation(s) Noted

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**Remarks:**

The Department conducted an inspection of this well on 8/13/2024 after being notified by Range that the production casing failed during stimulation activities. At the time of the inspection equipment was being mobilized off site, and stimulation activities were completed.

According to Range, anomalously low treatment pressures were observed while fracing stage 64 of the 6H on 8/9/2024 at 7:17am. The Operator cut sand and started to flush when the low pressures were observed, and kill plugs were then placed in the production casing at 6531' and 6426'. A pressure of 2801 psi was observed on the backside of the production casing during the incident. Per Range, no anomalous pressures were observed on other casing annuli, nor were anomalous pressures observed on other offset wells.

Range informed the Department during the inspection that the issue appears to be above the kill plug locations, and a log was scheduled to be run later in the week to determine the location of the failure.

- The Department was not notified of the incident until 8/12/2024 at 3:45pm. This is a violation of 78a.73(c) which requires immediate notification to the Department in the event that anomalous pressures are observed during stimulation activities.

- According to Range, a failure of the production casing was the cause of the observed anomalous treatment pressures. The failure of the production casing during stimulation is a violation of 78a.73(a).

- The Department requests that Range submit as part of their Notice of Violation response a copy of the logs that are scheduled to be run that will be used to determine the location of the production casing failure. The Department also requests copies of stimulation records for stages 54 through stage 64 for the 6H.



v2024.2.2.1

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

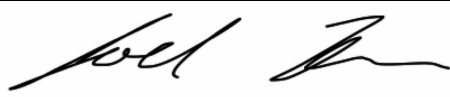
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<b>On Site Representative</b>		<b>DEP Representative</b>	
?			
(signature)		(signature)	
(print name)		JOEL HOFFMAN, Oil and Gas Inspector (print name)	
Date: 08/13/2024	Time Arrived: 09:16 AM	Time Departed: 10:00 AM	

NOTICE OF VIOLATION(S)	
Citation	Description of Violation
25 Pa. Code § 78a.73(c)	78A73(C) - GENERAL PROVISION FOR WELL CONSTRUCTION AND OPERATION - The operator failed to immediately electronically notify the Department of any change to a well being monitored, of any treatment pressure or volume changes indicative of abnormal fracture propagation at the well being stimulated or if otherwise made aware of a confirmed well communication incident associated with their stimulation activities.
25 Pa. Code § 78a.73(a)	78a73(a) - GENERAL PROVISION FOR WELL CONSTRUCTION AND OPERATION - Operator failed to construct and operate the well in accordance with 25 Pa. Code Chapter 78a and ensure that the integrity of the well is maintained and health, safety, environment and property are protected.
<p>Note: This Notice of Violation is neither an order nor any other final action of the Department of Environmental Protection. It neither imposes nor waives any enforcement action available to the Department under any of its statutes. If the Department determines that an enforcement action is appropriate, you will be notified of the action.</p>	
<p>58 Pa.C.S. § = Act 13(OGA) • 25 Pa.Code § • 35 P.S. § 6018. = Solid Waste Management Act • 35 P.S. § 691. = Clean Streams Law</p>	

MAILED BY	CERT MAIL#	MAIL DATE

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No.**TYPE OF RESPONSE**

You are requested to respond as indicated below by 09/04/2024. If applicable, please include the description of activities you will pursue to achieve compliance with the statutes or regulations cited above. Address your reply to the DEP representative named below.



No further response required at this time.



Written response requested



Add what you will do to correct the situation and achieve compliance?



Include explanation of cause of violations



Include the schedule or anticipated time frame for compliance activities you intend to carry out

**RESPONSE COMMENTS**

Please confirm receipt of this Notice of Violation within 5 business days via email to OGI Joel Hoffman (joehoffman@pa.gov). Please provide the requested Notice of Violation response via email to Environmental Group Manager Alexandra Barravecchio (abarravecc@pa.gov), Oil and Gas Inspector Supervisor Scott Sabocheck (ssabocheck@pa.gov), and Oil and Gas Inspector Joel Hoffman (joehoffman@pa.gov) by the date indicated.