

*West Virginia Department of Environmental Protection  
Division of Air Quality*

*Earl Ray Tomblin  
Governor*

*Randy C. Huffman  
Cabinet Secretary*

**Class II General Permit  
G70-A Registration for Class II  
Administrative Update**



for the  
Prevention and Control of Air Pollution in regard to the  
Construction, Modification, Relocation, Administrative Update and  
Operation of Oil and Natural Gas Production Facilities  
Located at the Well Site

*The permittee identified at the facility listed below is authorized to  
construct the stationary sources of air pollutants identified herein in accordance  
with all terms and conditions of General Permit G70-A.*

**G70-A101A**

**Issued to:**

**Chesapeake Appalachia, LLC  
Kirk Hadley Pad  
095-00030**

A handwritten signature in blue ink, appearing to read "William F. Durham", is written over a horizontal line.

*William F. Durham  
Director*

*Issued: August 3, 2015*

Facility Location: Middlebourne, Tyler County, West Virginia  
Mailing Address: PO Box 18496, Oklahoma City, OK 73154-0496  
Facility Description: Natural Gas Production  
NAICS Code: 211111  
SIC Code: 1311  
UTM Coordinates: 505.822 km Easting • 4,368.178 km Northing • Zone 17N  
Longitude Coordinates: -80.93232  
Latitude Coordinates: 39.46316  
Directions to Facility: From the intersection of WV 18 and County Route 18/6 (State Ridge Road) in Middlebourne, travel south on WV 18 for 0.6 miles to Bridgeway Road. Turn right onto Bridgeway Road and go 0.1miles to Middlebourne-Wick Road. Turn left onto Middlebourne-Wick Road and go 3.1 miles to Little Sancho Creek Road (C/R 6/3). Turn slightly right onto Little Sancho Creek Road and go 1.1 miles to well access on right.  
Registration Type: Class II Administrative Update  
Description of Change: SWN Production Company, LLC seeks to add a 332-hp Caterpillar G3408TA engine and to represent the gas production unit (GPU) as being routed to the tanks with the flash gas sent to the flash gas compressor and the liquid sent to the storage tanks. The heater treater is being removed from the process and the GPU flash losses and liquids will be routed directly to the condensate tanks.

Subject to 40CFR60, Subpart OOOO? Yes

Subject to 40CFR60, Subpart JJJJ? Yes

Subject to 40CFR63, Subpart ZZZZ? Yes, JJJJ Req's

Subject to 40CFR63, Subpart HH? No

*Any person whose interest may be affected, including, but not necessarily limited to, the applicant and any person who participated in the public comment process, by a permit or registration issued, modified or denied by the Secretary may appeal such action of the Secretary to the Air Quality Board pursuant to article one [ §§ 22B-1-1 et seq.], Chapter 22B of the Code of West Virginia. West Virginia Code §22-5-14.*

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*The source is not subject to 45CSR30.*

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### Permit Section Applicability for the Registrant

*All registered facilities under General Permit G70-A are subject to Sections 1.0, 2.0, 3.0, and 4.0 of General Permit G70-A.*

The following additional sections of General Permit G70-A apply to the registrant:

Section 5	Natural Gas Well Affected Facility	<input checked="" type="checkbox"/>
Section 6	Storage Vessels*	<input checked="" type="checkbox"/>
Section 7	Gas Production Units, In-Line Heaters, Heater Treaters, and Glycol Dehydration Reboilers	<input checked="" type="checkbox"/>
Section 8	Pneumatic Controllers Affected Facility (NSPS, Subpart OOOO)	<input checked="" type="checkbox"/>
Section 9	<i>Reserved</i>	<input type="checkbox"/>
Section 10	Natural Gas-Fired Compressor Engine (s) (RICE)**	<input checked="" type="checkbox"/>
Section 11	Tank Truck Loading Facility***	<input checked="" type="checkbox"/>
Section 12	Standards of Performance for Storage Vessel Affected Facilities (NSPS, Subpart OOOO)	<input type="checkbox"/>
Section 13	Standards of Performance for Stationary Spark Ignition Internal Combustion Engines (NSPS, Subpart JJJJ)	<input checked="" type="checkbox"/>
Section 14	Control Devices not subject to NSPS, Subpart OOOO	<input checked="" type="checkbox"/>
Section 15	National Emissions Standards for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines (40CFR63, Subpart ZZZZ)	<input checked="" type="checkbox"/>
Section 16	Glycol Dehydration Units	<input checked="" type="checkbox"/>
Section 17	Dehydration Units With Exemption from NESHAP Standard, Subpart HH § 63.764(d) (40CFR63, Subpart HH)	<input checked="" type="checkbox"/>
Section 18	Dehydration Units Subject to NESHAP Standard, Subpart HH and Not Located Within an UA/UC (40CFR63, Subpart HH)	<input type="checkbox"/>
Section 19	Dehydration Units Subject to NESHAP Standard, Subpart HH and Located Within an UA/UC (40CFR63, Subpart HH)	<input type="checkbox"/>

\* The registrant may also be subject to the applicable control device requirements of Section 12 if the registrant is subject to the NSPS, Subpart OOOO control requirements or may be subject to the control device requirements of Section 14.

\*\* The registrant may also be subject to the applicable RICE requirements of Section 13 and/or Section 15.

\*\*\* The registrant may also be subject to the applicable control device requirements of Section 14.

**1.0 Emission Units Table**

Emission Unit ID	Emission Point ID	Emission Unit Description (Mfg., Model, Serial No., Engine type 2SLB, 4SLB, 4SRB, etc.)	Control Device ID	Year Installed / Modified	Max. Design Capacity	Design Capacity Unit of Measure	G70-A Applicable Sections
EU-MC2349	EP-MC2349	Caterpillar G3306NA Engine	NSCR	2013	145	hp	10, 13 & 15
EU-ENG2	EU-ENG2	Caterpillar G3408TA Engine	NSCR	2015	332	hp	10, 13, & 15
EU-DEHY1	EP-DEHY1	TEG Dehydration Unit	APC-COND, EP-REB1, APC-COMB	2013	3.00	Mmscf/day	16 & 17
EU-REB1	EP-REB1	TEG Reboiler	--	2013	0.25	mmBtu/hr	7
EU-GPU1	EP-GPU1	GPU Burner	--	2013	1.0	mmBtu/hr	7
EU-TANKS-COND	EP-TANKS-COND	(3) Condensate Tanks	APC-COMB	2013	400	Bbl	6 & 14
EU-TANKS-PW	EP-TANKS-PW	(3) P.W. Tanks	APC-COMB	2013	400	Bbl	6 & 14
EU-LOAD-COND	EP-LOAD-COND	Cond. Loading	N/A	2013	767,000	Gal/year	11
EP-LOAD-PW	EU-LOAD-PW	P.W. Loading	N/A	2013	3,066,000	Gal/year	11
<b>Control Devices (If applicable)</b>							
Control Device ID	Control Efficiency %	Control Device Description (Mfg, Model)		Year Installed / Modified	Max. Design Capacity	Design Capacity Unit of Measure	G-70A Applicable Sections
APC-COMB	APC-COMB	Vapor Combustor		2013	8.0	mmBtu/hr	14
<b>Emission Reduction Systems</b>						Yes or No	G-70A Applicable Sections
Was a vapor recovery system (VRU) used to determine emission limits?						No	
Was a low pressure tower(s) used to determine emission limits?						No	

### 2.0 Oil and Natural Gas Wells Table

API number	API number	API number
047-095-02031		

### 3.0 Emission Limitations

Emission Unit ID	Emission Point ID	Emission Unit Description	Regulated Pollutant	Maximum Potential Emissions	
				Hourly (lb/hr)	Annual (tpy)
EU-REB1	EP-REB1	0.25 mmBtu/hr TEG Reboiler	Nitrogen Oxides	0.03	0.13
			Carbon Monoxide	0.02	0.09
EU-GPU1	EP-GPU1	1.0 mmBtu/hr GPU Heater	Nitrogen Oxides	0.11	0.48
			Carbon Monoxide	0.09	0.39
EU-TANKS-COND	EP-TANKS-COND	(3) 400 BBL Condensate Tanks	Volatile Organic Compounds	1.37	6.02
			Total HAPs	0.19	0.82
EU-MC2349	EP-MC2349	Caterpillar G3306 Engine	Nitrogen Oxides	0.64	2.80
			Carbon Monoxide	0.64	2.80
			Volatile Organic Compounds	0.34	1.49
			Formaldehyde	0.02	0.09
EU-DEHY1	EP-DEHY1	3.0 mmscf/day TEG Dehy	Volatile Organic Compounds	1.75	7.67
			Benzene	0.05	0.23
			Ethylbenzene	0.02	0.08
			n-Hexane	0.07	0.29
			Toluene	0.07	0.31
			Xylenes	0.04	0.19
EU-LOAD-COND	EP-LOAD-COND	Condensate Truck Loading	Volatile Organic Compounds	0.26	1.14
			Total HAPs	0.03	0.12
EU-ENG2	EU-ENG2	Caterpillar G3408 Engine	Nitrogen Oxides	0.73	3.20
			Carbon Monoxide	1.46	6.39
			Volatile Organic Compounds	0.61	2.89
			Formaldehyde	0.05	0.22

### 4.0 Throughput Limitations

Throughput limits are on a 12-month rolling total basis.

Emission Unit ID	Emission Point ID	Emission Unit Description	Annual Throughput Limit
EU-DEHY1	EP-DEHY1	TEG Dehydrator	3.0 mmscf/day
EU-LOAD-COND	EP-LOAD-COND	Condensate Truck Loading	767,000 gal/yr

**5.0 Reciprocating Internal Combustion Engines (R.I.C.E.) Information**

Emission Unit ID	Engine Manufacturing Date	Subject to 40CFR60, Subpart JJJJ?	Subject to 40CFR63, Subpart ZZZZ?	Subject to Sections 10.1.4 / 10.2.1 (Catalytic Reduction Device)
EU-MC2349	2013	Yes	Yes (JJJJ Only)	Yes
EU-ENG2	2015	Yes	Yes (JJJJ Only)	Yes