



west virginia department of environmental protection

Division of Air Quality
601 57th Street SE
Charleston, WV 25304
Phone 304/926-0475

Joe Manchin, III, Governor
Randy C. Huffman, Cabinet Secretary
www.wvdep.org

December 10, 2015

CERTIFIED MAIL
91 7199 9991 7035 6693 6041

Mr. Paul Geiger
SWN Production Company, LLC
10000 Energy Drive
Spring, TX 77389

RE: Approved Registration G70-A183
SWN Production Company, LLC
Mildred Mani Pad
009-00109

Dear Mr. Geiger:

The Director has determined that the submitted Registration Application and proposed modification and operation of a natural gas compressor station demonstrates eligibility and compliance with the requirements, provisions, standards and conditions of General Permit G70-A and hereby grants General Permit registration authorizing the proposed activity.

Please be aware of the actions required in Monitoring Requirements, Testing Requirements, Recordkeeping Requirements, and the Reporting Requirements.

Should you have any questions, please contact the undersigned engineer at (304)926-0499 ext. 1258.

Sincerely,

Caraline Griffith
Permit Engineer

Enclosures: Registration G70-A183
General Permit G70-A

c: Kristi Evans - Contact
SWN Production Company

*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 to Modify



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-A183

Issued to:
SWN Production Company, LLC
Mildred Mani Pad
009-00109

A blue ink signature of William F. Durham, written over a horizontal line.

*William F. Durham
Director*

Issued: December 10, 2015

This Class II General Permit Registration will supersede and replace R13-2989C.

Facility Location: Wellsburg, Brooke County, West Virginia
Mailing Address: 10000 Energy Drive
Spring, TX 77389
Facility Description: Natural Gas Well Pad
NAICS Code: 211111
SIC Code: 1311
UTM Coordinates: 534.88 km Easting • 4,456.01 km Northing • Zone 17T
Longitude Coordinates: -80.58973
Latitude Coordinates: 40.25382
Directions to Facility: From intersection of Route 2 and CR 27 (10th Street, Washington Pike) in Wellsburg, travel east on CR 27 for 2.06 miles to 27/3 (Bradys Ridge) and turn right onto CR 27/3. Travel for 1.49 miles to 27/3 to well pad on left.
Registration Type: Modification
Description of Change: Removal of all previously permitted equipment. Installation of Two (2) Caterpillar G3306 NA Compressor Engines; One (1) Caterpillar G3406 NA Engine; Five (5) 1.0 mmBTU/hr Gas Production Units; Two (2) 0.5 mmBTU/hr Heater Treaters; One (1) 1.5 mmBTU/hr Stabilizer Heater; Six (6) 400 bbl Condensate Tanks; Four (4) 400 bbl Produced Water Tanks; One (1) 15 mmBTU/hr Vapor Combustor with Pilot; One (1) NK 100 VRU with Associated Engine.

Subject to 40CFR60, Subpart OOOO?

Subject to 40CFR60, Subpart JJJJ? Yes. The three Caterpillar engines are not certified, but the Zenith engine is certified.

Subject to 40CFR63, Subpart ZZZZ? Yes, these engines demonstrate compliance with Subpart ZZZZ by complying with Subpart JJJJ.

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.

The source is not subject to 45CSR30.

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 type="checkbox"/>
Section 9	Reserved	<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 checked="" 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 type="checkbox"/>
Section 17	Dehydration Units With Exemption from NESHAP Standard, Subpart HH § 63.764(d) (40CFR63, Subpart HH)	<input 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-ENG1	EP-ENG1	Caterpillar G3306 NA Engine	NCSR	2015	145	hp	10, 13, 15
EU-ENG2	EP-ENG2	Caterpillar G3306 NA Engine	NCSR	2015	145	hp	10, 13, 15
EU-ENG3	EP-ENG3	Caterpillar G3406 TALE Engine	NCSR	2015	215	hp	10, 13, 15
EU-ENG4	EP-ENG4	Zenith ZPP-644 4.4L 6 Cylinder Engine	NCSR	2015	77	kW	10, 13, 15
EU-GPU1	EP-GPU1	GPU Burner	None	2015	1.0	mmBTU/hr	7
EU-GPU2	EP-GPU2	GPU Burner	None	2015	1.0	mmBTU/hr	7
EU-GPU3	EP-GPU3	GPU Burner	None	2015	1.0	mmBTU/hr	7
EU-GPU4	EP-GPU4	GPU Burner	None	2015	1.0	mmBTU/hr	7
EU-GPU5	EP-GPU5	GPU Burner	None	2015	1.0	mmBTU/hr	7
EU-HT1	EP-HT1	Heater Treater	None	2015	0.5	mmBTU/hr	7
EU-HT2	EP-HT2	Heater Treater	None	2015	0.5	mmBTU/hr	7
EU-SH1	EP-SH1	Stabilizer Heater	None	2015	1.5	mmBTU/hr	7
EU-TANKS-COND	APC-COMB-TKLD	Six (6) Condensate Tanks	APC-COMB-TKLD	2015	400	bbl each	6, 12
EU-TANKS-PW	APC-COMB-TKLD	Four (4) Produced Water Tanks	APC-COMB-TKLD	2015	400	bbl each	6, 12
EU-LOAD-COND	EP-LOAD-COND	Condensate Truck Loading	Vapor Return and APC-COMB-TKLD	NA	38,325,000	gal/yr	11
EU-LOAD-PW	EP-LOAD-PW	Produced Water Truck Loading	Vapor Return and APC-COMB-TKLD	NA	15,330,000	gal/yr	11
Control Devices (If applicable)							
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-TKLD	98%	Vapor Combustor	2015	15.0	mmBTU/hr	14	

EU-PILOT	98%	Vapor Combustor Pilot	2015	50	SCFH	14
Emission Reduction Systems					Yes or No	G-70A Applicable Sections
Was a vapor recovery system (VRU) used to determine emission limits?					Yes	14
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
47-900158		
47-900159		
47-900160		
47-900161		

3.0 Emission Limitations

Emission ID	Emission Unit	Pollutant	Maximum PTE	
			lb/hr	TPY
EU-ENG1	Caterpillar G3306 NA	NOx	0.32	1.40
		CO	0.64	2.80
		VOC	0.24	1.05
EU-ENG2	Caterpillar G3306 NA	NOx	0.32	1.40
		CO	0.64	2.80
		VOC	0.24	1.05
EU-ENG3	Caterpillar G3406 TALE	NOx	0.47	2.06
		CO	0.95	4.16
		VOC	0.36	1.58
EU-ENG4	Zenith ZPP-644 4.4L	NOx	0.46	2.01
		CO	0.75	3.29
		VOC	0.46	2.01
EU-GPU1 to EU-GPU5	Five (5) 1.0 mmBTU/hr GPU Burners Each	NOx	0.11	0.48
		CO	0.09	0.39
		VOC	0.01	0.03
EU-HT1 and EU-HT2	Two (2) 0.5 mmBTU/hr Heater Treaters	NOx	0.06	0.26
		CO	0.05	0.22
EU-SH1	1.5 mmBTU/hr Stabilizer Heater	NOx	0.17	0.74
		CO	0.14	0.61
		VOC	0.01	0.04
EU-LOAD-COND	Condensate Truck Loading with Vapor Return Routed to Combustor	VOC	8.45	37.02
EU-LOAD-PW	Produced Water Truck Loading with Vapor Return Routed to Combustor	VOC	0.04	0.16
APC-COMB-TKLD	15.0 mmBTU/hr Vapor Combustor – Tank/Loading System	NOx	2.07	9.07
		CO	4.13	18.09
		VOC	5.76	37.02
EU-PILOT	Vapor Combustor Pilot	NOx	0.01	0.04

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-TANKS-COND	EP-TANKS-COND	Six (6) 400 bbl Condensate Tanks	38325,000 gal/year
EU-TANKS-PW	EP-TANKS-PW	Four (4) Produced Water Tanks	15,330,000 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-ENG1	After 07/01/08	Yes	Yes	Yes
EU-ENG2	After 07/01/08	Yes	Yes	Yes
EU-ENG3	After 07/01/08	Yes	Yes	Yes
EU-ENG4	02/2014	Yes	Yes	Yes