



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

October 14, 2015

CERTIFIED MAIL
91 7199 9991 7035 6613 3044

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

RE: Approved Registration G70-A174
SWN Production Company, LLC
Betty Schafer Pad
051-00221

Dear Mr. Geiger:

The Director has determined that the submitted Registration Application and proposed construction 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-A174
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 Construct**



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-A174

Issued to:
SWN Production Company, LLC
Betty Schafer Pad
051-00221

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

*William F. Durham
Director*

Issued: October 14, 2015

Facility Location: Wheeling, Marshall 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: 530.82362 km Easting • 4,427.012 km Northing • Zone 17S
Longitude Coordinates: -80.638936
Latitude Coordinates: 39.992724
Directions to Facility: From Exit 2 on I-470, travel south on CR 91/1, W. Bethlehem Blvd. for 0.45 miles. Turn right on WV-88, Ridgecrest Rd., go 8.2 miles. Turn left on US-250, go 1.5 miles. Turn left on McCreary's Ridge Rd. CR 44, go 0.3 miles. Stay left on McCreary's Ridge Rd CR 7, go 3.7 miles. Turn left on Big Wheeling Creek Rd. CR 5, go 1.6 miles. Turn right to stay on Big Wheeling Creek RD CR 5, go 2.0 miles. Entrance is on the right.
Registration Type: Construction
Description of Change: SWN Production Company, LLC is constructing a new Natural Gas Well Pad at this Location.

Subject to 40CFR60, Subpart OOOO? Yes

Subject to 40CFR60, Subpart JJJJ? Yes. The Zenith engine is certified, but the two Caterpillar engines and the GM Vortec Engine are not certified.

Subject to 40CFR63, Subpart ZZZZ? Yes, compliance is demonstrated by complying with all relevant parts in NSPS 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	<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 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 3306 NA Engine	NCSR	2015	145	hp	10, 13, 15
EU-ENG2	EP-ENG2	Caterpillar 3306 NA Engine	NCSR	2015	145	hp	10, 13, 15
EU-ENG3	EP-ENG3	Zenith XPP-644 4.4L 6 Cylinder Engine	NCSR	2015	77.0	kw	10, 13, 15
EU-ENG4	EP-ENG4	Bucks GM Vortec 5.7L Engine	NCSR	2015	146.2	kw	10, 13, 15
EU-GPU1	EP-GPU1	GPU Burner	NA	2015	1.0	mmBTU/hr	7
EU-GPU2	EP-GPU2	GPU Burner	NA	2015	1.0	mmBTU/hr	7
EU-HT1	EP-HT1	Heater Treater	NA	2015	0.5	mmBTU/hr	7
EU-HT2	EP-HT2	Heater Treater	NA	2015	0.5	mmBTU/hr	7
EU-Tanks-Cond	EP-Tanks-Cond	Four (4) Condensate Tanks	NA	2015	400	bbl Each	6, 12
EU-Tanks-PW	EP-Tanks-PW	Two (2) Produced Water Tanks	NA	2015	400	bbl Each	6, 12
EU-Load-Cond	EP-Load-Cond	Condensate Truck Loading	Vapor Return and APC-COMB-TKLD	NA	15,330,000	Gal/yr	11
EU-Load-PW	EP-Load-PW	Produced Water Truck Loading	Vapor Return and APC-COMB-TKLD	NA	12,264,000	Gal/yr	11
EU-Pilot	EP-Pilot	Vapor Combustor Pilot	NA	2015	100	SCFH	14
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	APC-COMB-TKLD	Vapor Combustor		2015	20.0	mmBTU/hr	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
051-01776		

3.0 Emission Limitations

Emission Unit ID	Emission Point ID	Emission Unit Description	Regulated Pollutant	Maximum Potential Emissions	
				lb/hr	TPY
EU-ENG1	EP-ENG1	145-hp Caterpillar G3306 NA Engine w/Catalytic Converter	NOx	0.32	1.40
			CO	0.64	2.80
			VOC	0.24	1.05
EU-ENG2	EP-ENG2	145-hp Caterpillar G3306 NA Engine w/Catalytic Converter	NOx	0.32	1.40
			CO	0.64	2.80
			VOC	0.24	1.05
EU-ENG3	EP-ENG3	77-kw Zenith ZPP-644 4, 4L 6 Cylinder Engine	NOx	0.46	2.01
			CO	0.75	3.29
			VOC	0.46	2.01
EU-ENG4	EP-ENG4	146.2-kw Bucks GM Vortec 5.7L Engine	NOx	0.43	1.68
			CO	0.86	3.77
			VOC	0.34	1.48
EU-GPU1 and EU-GPU2	EP-GPU1 and EP-GPU2	Two (2) 1.0-mmBTU/hr GPU Burners	NOx	0.22	0.96
			CO	0.10	0.44
			VOC	0.01	0.06
EU-HT1 and EU-HT2	EP-HT1 and EP-HT2	Two (2) 0.5-mmBTU/hr Heater Treaters	NOx	0.12	0.52
			CO	0.10	0.44
			VOC	0.01	0.02
EU-TANKS-COND	EP-TANKS-COND	Four (4) 400-bbl Condensate Tanks Routed to Vapor Combustor	VOC	10.29	45.07
EU-TANKS-PW	EP-TANKS-PW	Two (2) 400-bbl Produced Water Tanks routed to Vapor Combustor	VOC	0.03	0.12
EU-LOAD-COND	EP-LOAD-COND	Condensate Truck Loading w/ Vapor Return routed to Combustor	VOC	2.92	12.81
EU-LOAD-PW	EP-LOAD-PW	Produced Water Truck Loading w/ Vapor Return routed to Combustor	VOC	0.03	0.11
APC-COMB-TKLD	APC-COMB-TKLD	One (1) 20.0 mm/BTU/hr Vapor Combustor – Loading Stream	NOx	2.76	12.09
			CO	5.51	24.13
			VOC	0.14	0.61
EU-PILOT	EP-PILOT	Vapor Combustor Pilot	NOx	0.01	0.04
			CO	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	Four (4) 400 bbl Condensate Tanks	15,330,000 gal/yr
EU-TANKS-PW	EP-TANKS-PW	Two (2) 400 bbl Produced Water Tanks	12,264,000 gal/yr
EU-LOAD-COND	EP-LOAD-COND	Condensate Truck Loading	15,330,000 gal/yr
EU-LOAD-PW	EP-LOAD-PW	Produced Water Truck Loading	12,264,000 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 6/6/2006	Yes	Yes	Yes
EU-ENG2	After 6/6/2006	Yes	Yes	Yes
EU-ENG3	After 6/6/2006	Yes	Yes	Yes
EU-ENG4	After 6/6/2006	Yes	Yes	Yes