west virginia department of environmental protection

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

Earl Ray Tomblin, Governor
Randy C. Huffman, Cabinet Secretary
www.dep.wv.gov

October 19, 2015

CERTIFIED MAIL
91 7199 9991 7034 3222 9031

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

RE: **Approved Registration G70-A175**
SWN Production Company, LLC
Glenn Didriksen Pad
Facility ID No. 069-00115

Dear Mr. Geiger,

The Director has determined that the submitted Registration Application and proposed modification of an oil and natural gas production facility 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.

General Permit G70-A can be accessed electronically at www.dep.wv.gov/daq/permitting/Pages/airgeneralpermit.aspx. Hard copies are available upon request by contacting Danielle Wentz at (304)926-0499 ext. 1193.

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. 1223 or jerry.williams@wv.gov.

Sincerely,

Jerry Williams, P.E.
Engineer

Enclosures: Registration G70-A175

c: Kristi Evans

West Virginia Department of Environmental Protection
Division of Air Quality

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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-A175
Issued to:
SWN Production Company, LLC
Glenn Didriksen Pad
069-00115

William F. Durham
Director

Issued: October 19, 2015

This Class II General Permit Registration supersedes and replaces R13-2941C issued on April 29, 2013.

Facility Location:	Wheeling, Ohio County, West Virginia
Mailing Address:	10000 Energy Drive, Spring, TX 77389
Facility Description:	Natural gas production facility
NAICS Code:	211111
SIC Code:	1311
UTM Coordinates:	534.493 km Easting • 4,440.490 km Northing • Zone 17
Longitude Coordinates:	-80.597750
Latitude Coordinates:	40.119060
Directions to Facility:	From I-70, take exit 5. Tridelphia and Elm Grove to US Route 40. Take US 40 east approximately 7.8 miles to Atkinson Crossing CR-45. Turn left on CR-45 and travel 1.2 miles to the intersection of CR-45 and CR-47. Turn left on CR-45 and GC&P Road CR-37 and travel 0.8 miles to CR-45 and CR-37 intersection. Stay straight on CR-37, GC&P.
Registration Type:	Construction
Description of Change:	Construction and operation of an an oil and natural gas production facility that will include the addition of three (3) engines, six (6) heaters, eight (8) condensate tanks, four (4) produced water tanks, one (1) low pressure tower, and one (1) vapor combustor.

Subject to 40CFR60, Subpart OOOO? Yes.

Subject to 40CFR60, Subpart JJJJ? Yes. EP-ENG1, EP-ENG2, EP-ENG3.

Subject to 40CFR63, Subpart ZZZZ? Yes. Compliance is demonstrated by complying with 40CFR60 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	☒
Section 6	Storage Vessels*	☒
Section 7	Gas Production Units, In-Line Heaters, Heater Treaters, and Glycol Dehydration Reboilers	☒
Section 8	Pneumatic Controllers Affected Facility (NSPS, Subpart OOOO)	☐
Section 9	*Reserved*	☐
Section 10	Natural Gas-Fired Compressor Engine (s) (RICE)**	☒
Section 11	Tank Truck Loading Facility***	☒
Section 12	Standards of Performance for Storage Vessel Affected Facilities (NSPS, Subpart OOOO)	☐
Section 13	Standards of Performance for Stationary Spark Ignition Internal Combustion Engines (NSPS, Subpart JJJJ)	☒
Section 14	Control Devices not subject to NSPS, Subpart OOOO	☒
Section 15	National Emissions Standards for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines (40CFR63, Subpart ZZZZ)	☒
Section 16	Glycol Dehydration Units	☐
Section 17	Dehydration Units With Exemption from NESHAP Standard, Subpart HH § 63.764(d) (40CFR63, Subpart HH)	☐
Section 18	Dehydration Units Subject to NESHAP Standard, Subpart HH and Not Located Within an UA/UC (40CFR63, Subpart HH)	☐
Section 19	Dehydration Units Subject to NESHAP Standard, Subpart HH and Located Within an UA/UC (40CFR63, Subpart HH)	☐

* 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 G3306NA 4SRB	NSCR	2015	145	HP	10, 13, 15
EU-ENG2	EP-ENG2	Caterpillar G3406NA 4SRB	NSCR	2015	215	HP	10, 13, 15
EU-ENG3	EP-ENG3	Caterpillar G3406NA 4SRB	NSCR	2015	215	HP	10, 13, 15
EU-GPU-1 – EU-GPU-6	EP-GPU-1 – EP-GPU-6	Six (6) GPU Heaters	None	2015	1.0	MMBTU/hr	7
EU-HT1 – EU-HT2	EP-HT1 – EP-HT2	Two (2) Heater Treaters	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	Eight (8) Condensate Tanks	APC-COMB-TKLD	2015	400	bbl each	6, 14
EU-TANKS-PW	APC-COMB-TKLD	Four (4) Produced Water Tanks	APC-COMB-TKLD	2015	400	bbl each	6, 14
EU-LOAD-COND	APC-COMB-TKLD	Condensate Truck Loading	Vapor Return and APC-COMB-TKLD	2015	30,660,000	gal/yr	11, 14
EU-LOAD-PW	APC-COMB-TKLD	Produced Water Truck Loading	Vapor Return and APC-COMB-TKLD	2015	12,264,000	gal/yr	11, 14
APC-COMB-TKLD	APC-COMB-TKLD	MRW Technologies Vapor Combustor	NA	2015	20	MMBTU/hr	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	VOC – 98 % HAP – 98 % CH_4 – 98%	MRW Technologies Vapor Combustor	2015	20	MMBTU/hr	14
NSCR	NOx – 92.58% CO – 85.15%	NSCR - Caterpillar G3306NA 4SRB (EU-ENG1)	2015	NA	NA	10, 13, 15
NSCR	NOx – 93.95% CO – 87.89%	NSCR - Caterpillar G3406NA 4SRB (EU-ENG2, EU-ENG3)	2015	NA	NA	10, 13, 15

Emission Reduction Systems	**Yes or No**	**G-70A Applicable Sections**
Was a vapor recovery system (VRU) used to determine emission limits?	Yes	10, 13, 15
Was a low pressure tower(s) used to determine emission limits?	Yes	6, 14

2.0 Oil and Natural Gas Wells Table

API number	
47-069-00064	47-069-00123

3.0 Emission Limitations

Emission Unit ID	Emission Point ID	Emission Unit Description	Regulated Pollutant	Maximum Potential Emissions	
				Hourly (lb/hr)	Annual (tpy)
EU-ENG1	EP-ENG1	145 HP Caterpillar G3306 NA	Nitrogen Oxides	0.32	1.40
			Carbon Monoxide	0.64	2.80
			Volatile Organic Compounds	0.24	1.05
EU-ENG2	EP-ENG2	215 HP Caterpillar G3406 NA	Nitrogen Oxides	0.47	2.06
			Carbon Monoxide	0.95	4.16
			Volatile Organic Compounds	0.36	1.58
EU-ENG3	EP-ENG3	215 HP Caterpillar G3406 NA	Nitrogen Oxides	0.47	2.06
			Carbon Monoxide	0.95	4.16
			Volatile Organic Compounds	0.36	1.58
APC-COMB-TKLD	APC-COMB-TKLD	Vapor Combustor (including 8 Cond. Tanks, 4 PW Tanks)	Volatile Organic Compounds	7.39	32.37
			Hazardous Air Pollutants	0.60	2.63
			Nitrogen Oxides	2.76	12.09
			Carbon Monoxide	5.51	24.13

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	APC-COMB-TKLD	Eight (8) 400 bbl Condensate Tanks	30,660,000 gal/yr (combined)
EU-TANKS-PW	APC-COMB-TKLD	Four (4) 400 bbl Produced Water Tanks	12,264,000 gal/yr (combined)
EU-LOAD-COND	APC-COMB-TKLD	Condensate Truck Loading	30,660,000 gal/yr
EU-LOAD-PW	APC-COMB-TKLD	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	2015	Yes	Yes	Yes
EU-ENG2	2015	Yes	Yes	Yes
EU-ENG3	2015	Yes	Yes	Yes