

*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-A119

Issued to:
Noble Energy, Inc.
Sand Hill 23
051-00210

A blue ink signature of William F. Durham, written in a cursive style, positioned above a horizontal line.

*William F. Durham
Director*

Issued: July 22, 2015

Facility Location: Dallas, Marshall County, West Virginia
Mailing Address: 333 Technology Drive, Suite 116, Canonsburg, PA 15317
Facility Description: Natural Gas Production
NAICS Code: 211111
SIC Code: 1311
UTM Coordinates: 540.613 km Easting • 4,427.494 km Northing • Zone 17
Longitude Coordinates: -80.52423
Latitude Coordinates: 39.99666
Directions to Facility: Take I-70 to Exit 11, follow Dallas Pike Road for 5.31 miles to Dallas, WV. Make a right onto C/R 26 (Number Two Ridge Road) for 1.44 miles to C/R 26/1 (Wharton Hill Road) for 0.1 miles. Turn left (at telephone pole stockpile) onto private drive and follow for approximately 1/4 mile. Site is located on the right at the top of the hill.
Registration Type: Construction
Description of Change: New construction of natural gas facility.

Subject to 40CFR60, Subpart OOOO? Yes

Subject to 40CFR60, Subpart JJJJ? Yes, Both Engines Non-Certified

Subject to 40CFR63, Subpart ZZZZ? Yes, Compliance is Demonstrated 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 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 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
1STK 1-4	14E-VRU	(4) Cond. Tanks	14E-VRU	2015	400	bbl	6 & 14
2STK 5-8	14E-VRU	(4) Produced Water Tanks	14E-VRU	2015	400	bbl	6 & 14
3S-ENG1	3E-ENG1	Caterpillar G3506TAA Engine	3C - Oxy Cat	2015	211	hp	10,13&15
3S-ENG2	3E-ENG2	Gas Jack GJ230	3C - NSCR	2015	46	hp	10,13&15
4S-GPU 1-5	4E-GPU 1-5	(5) GPU Heaters	--	2015	1.0	mmBtu/hr	7
5S - LP	5E-LP	Low Pressure Separator Heater	--	2015	1.0	mmBtu/hr	7
6S - TL1	8E - COMB1	Cond. Loading	8C-COMB1	2015	3,688,000	gal/yr	11
7S - TL2	8E - COMB1	P.W. Loading	8C-COMB1	2015	21,152,000	gal/yr	11
8S - COMB1	8E - COMB1	Vapor Combustor	--	2015	7000	Scf/hr	14
9S - Pilot1	9E - Pilot1	Vapor Combustor Pilot	--	2015	12.5	Scf/hr	14
10S - TE Gen	10E - TE Gen	Thermoelectric Generator	--	2015	7.4	Gal/day Propane	7
14S - VRU	14E - VRU	Vapor Recovery Unit	--	2015	46	Hp	10,13&15
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	
8S - COMB1	98 (VOC)	Leed LDF1350 Vapor Comb.	2015	168,000	scfd	14	
3C - NSCR	88 (NOx), 78.3 (CO)	Non Selective Catalytic Reduction	2015	--	--	10, 13, 15	
3C - Oxy Cat	22 (CO)	Oxidation Catalyst	2015	--	--	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?						No	

2.0 Oil and Natural Gas Wells Table

API number	API number	API number
047-051-01688		
047-051-01674		
047-051-01673		
047-051-01675		
047-051-01677		

3.0 Emission Limitations

Emission Unit ID	Emission Point ID	Emission Unit Description	Regulated Pollutant	Maximum Potential Emissions	
				Hourly (lb/hr)	Annual (tpy)
1S-TK1-4	14E-VRU	(4) 400 BBL Condensate Tanks	Volatile Organic Compounds	4.22	18.47
			Total HAPs	0.02	0.07
2S-TK5-8	14E-VRU	(4) 400 BBL Prod. Water Tank	Volatile Organic Compounds	0.10	0.44
			Total HAPs	--	0.01
3S-ENG1	3E-ENG1	Caterpillar G3306TAA Compressor Engine	Nitrogen Oxides	0.23	1.02
			Carbon Monoxide	0.93	4.07
			Volatile Organic Compounds	0.26	1.12
			Formaldehyde	0.08	0.35
3S-ENG2	3E-ENG2	Gas Jack GJ230 VRU Engine	Nitrogen Oxides	0.20	0.89
			Carbon Monoxide	0.41	1.78
			Volatile Organic Compounds	0.10	0.44
4S-GPU 1-5	4E-GPU 1-5	(5) 1.0 mmBtu/hr GPU Burners	Nitrogen Oxides	0.40	1.80
			Carbon Monoxide	0.35	1.50
5S-LP	5E-LP	1.0 mmBtu/hr Low Pressure Separator Heater	Nitrogen Oxides	0.08	0.36
			Carbon Monoxide	0.07	0.30
6S-TL1	8E-COMB1	Condensate Truck Loading	Volatile Organic Compounds	1.40	6.15
			Total HAPs	0.31	1.35
8S-COMB1	8E-COMB1	Vapor Combustor	Nitrogen Oxides	0.71	3.13
			Carbon Monoxide	3.89	17.02
			Volatile Organic Compounds	0.07	0.30

4.0 Throughput Limitations

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

Emission ID	Unit	Emission Point ID	Emission Unit Description	Annual Throughput Limit
6E-TL1		8E COMB1	Condensate Truck Loading	3,688,000 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)
3E-ENG1	05/2014	Yes	Yes (JJJJ Only)	Yes
3E-ENG2	06/2007	Yes	Yes (JJJJ Only)	Yes