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

November 10, 2015

CERTIFIED MAIL
91 7199 9991 7035 6613 6120

Gary Orr
700 Cherrington Parkway
Coraopolis, PA 15108

RE: Approved Registration G70-A177
Chevron Appalachia, LLC
Berger Pad
Facility ID No. 051-00222

Dear Mr. Orr:

The Director has determined that the submitted Registration Application and proposed construction and operation 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. 1222 or Roy.F.Kees@wv.gov.

Sincerely,

Roy F. Kees, P.E.
Engineer - NSR Permitting

Enclosures: Registration G70-A177
c. Amy McGreevy

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-A177

Issued to:
Chevron Appalachia, LLC
Berger Pad
051-00222

William F. Durham
Director

Issued: November 10, 2015

Facility Location:	Moundsville, Marshall County, West Virginia
Mailing Address:	700 Cherrington Parkway, Coraopolis Parkway, Coraopolis, PA 15108
Facility Description:	Natural Gas Production
NAICS Code:	211111
SIC Code:	1311
UTM Coordinates:	520.510 km Easting • 4,413.910 km Northing • Zone 17
Longitude Coordinates:	-80.76021
Lattitude Coordinatees:	39.87502
Directions to Facility:	The following are directions from downtown Moundsville to the Berger pad: Head west on 5th Street toward Morton Ave, turn left onto Tomlinson Ave, turn right onto 6th Street, turn left onto WV-2 S/Lafayette Ave, turn left onto State Route 2 Alternate, turn left onto Roberts Ridge Road, the access road will be on the left side approximately 3 miles down Roberts Ridge Road.
Registration Type:	Construction
Description of Change:	Construction of a new Natural Gas Production Facility.

Subject to 40CFR60, Subpart OOOO? Yes

Subject to 40CFR60, Subpart JJJJ? No

Subject to 40CFR63, Subpart ZZZZ? Yes

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
BAP-0110	BAP-0110	Line Heater	--	2015	1.25	mmBtu/hr	7
BAP-0210	BAP-0210	Line Heater	--	2015	1.25	mmBtu/hr	7
BAP-0410	BAP-0410	Line Heater	--	2015	1.25	mmBtu/hr	7
BAP-0510	BAP-0510	Line Heater	--	2015	1.25	mmBtu/hr	7
BAP-0610	BAP-0610	Line Heater	--	2015	1.25	mmBtu/hr	7
BAP-0810	BAP-0810	Line Heater	--	2015	1.25	mmBtu/hr	7
BAP-0910	BAP-0910	Line Heater	--	2015	1.25	mmBtu/hr	7
BAP-1010	BAP-1010	Line Heater	--	2015	1.25	mmBtu/hr	7
BAP-0012	BAP-0012	Line Heater	--	2015	1.25	mmBtu/hr	7
ABJ-0011A	CBA-0055	Produced Water Tank	CBA-0055	2015	400	Bbl	6 & 14
ABJ-0011B	CBA-0055	Produced Water Tank	CBA-0055	2015	400	Bbl	6 & 14
ABJ-0011C	CBA-0055	Produced Water Tank	CBA-0055	2015	400	Bbl	6 & 14
ABJ-0011D	CBA-0055	Produced Water Tank	CBA-0055	2015	400	Bbl	6 & 14
ABJ-0014	CBA-0055	Test Tank	CBA-0055	2015	400	Bbl	6 & 14
CBA-1050	CBA-1050	Caterpillar G398TA	NSCR	2015	625	hp	10 & 15
ZZZ-001	ZZZ-001	Liquids Loading	N/A	2015	50,021,000	Gal/year	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
CBA-055	95	VRU (Electric Drive)	2015	N/A	N/A	14
NSCR	98 (NOx) 97 (CO) 76 (HCHO)	Engine Catalyst	2015	N/A	N/A	10 & 15

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
047-051-01702	047-051-01706	
047-051-01703	047-051-01707	
047-051-01704	047-051-01708	
047-051-01705	047-051-01709	

3.0 Emission Limitations

Emission Unit ID	Emission Point ID	Emission Unit Description	Regulated Pollutant	Maximum Potential Emissions	
				Hourly (lb/hr)	Annual (tpy)
BAP-0110-	BAP-0110-	(9) 1.25 mmBtu/hr Line Heaters	Nitrogen Oxides	0.90	3.87
			Carbon Monoxide	0.72	3.24
CBA-0055	CBA-0055	(5) 400 BBL Produced Water Tanks & Electric VRU	Volatile Organic Compounds	13.39	58.64
			Total HAPs	0.54	2.36
CBA-0055	CBA-0055	Caterpillar G398TA Temporary VRU Engine	Nitrogen Oxides	0.28	1.21
			Carbon Monoxide	0.41	1.81
			Volatile Organic Compounds	0.28	1.21
			Formaldehyde	0.10	0.44
ZZZ-001	ZZZ-001	Produced Water Truck Loading	Volatile Organic Compounds	0.07	1.02
			Total HAPs	<0.01	<0.01

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
L001	EP-L001	Condensate Truck Loading	50,021,000 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)
CBA-0055	Pre-2006	No	Yes	Yes