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**west virginia department of environmental protection**

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

Earl Ray Tomblin, Governor  
Randy C. Huffman, Cabinet Secretary  
[www.dep.wv.gov](http://www.dep.wv.gov)

March 25, 2016

CERTIFIED MAIL  
91 7199 9991 7035 6692 6004

Michael Horan  
125 Putnam Street  
Marietta, OH 45750

RE: Approved Registration G70-A  
G70-A087A  
Triad Hunter, LLC  
Weese Station  
Facility ID No. 095-00022

Dear Mr. Horan:

The Director has determined that the submitted Registration Application and proposed modification 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.

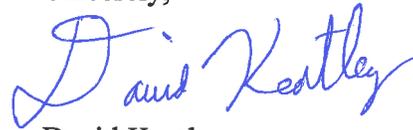
General Permit G70-A can be accessed electronically at [www.dep.wv.gov/daq/permitting/Pages/airgeneralpermit.aspx](http://www.dep.wv.gov/daq/permitting/Pages/airgeneralpermit.aspx). Hard copies are available upon request by contacting Danielle Wentz at (304)926-0499 ext. 1193.

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

Please be aware this permit registration was mailed previously to an incorrect address. Please update your address to keep your CTO current.

Should you have any questions, please contact the undersigned engineer at (304)926-0499 ext. 1224 or [David.J.Keatley@wv.gov](mailto:David.J.Keatley@wv.gov).

Sincerely,



David Keatley

Permit Writer - NSR Permitting

Enclosures: Registration G70-A087A

*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-A087A**

Issued to:  
**Triad Hunter, LLC**  
Weese Station  
095-00022

A handwritten signature in blue ink, appearing to read "William F. Durham", written over a horizontal line.

*William F. Durham  
Director*

*Issued: March 25, 2016*

This Class II General Permit Registration will supersede and replace G70-A087.

Facility Location: Near Alma, Tyler County, West Virginia  
Mailing Address: 125 Putnam Street  
Marietta, OH 45750  
Facility Description: Natural Gas/Condensate Production, Compression, and Dehydration Facility  
NAICS Code: 211111  
SIC Code: 1311  
UTM Coordinates: 516.442 km Easting • 4,363.946 km Northing • Zone 17  
Longitude Coordinate: -80.80897  
Latitude Coordinate: 39.42489  
Directions to Facility: From Clarksburg in Harrison County, travel west on US Route 50 approximately 29 miles to State Route 18 in West Union. Proceed north on State Route 18 approximately 15 miles to the community of Alma. Just north of Alma on Route 18, turn right onto State Route 23 (McElroy Creek Road). The site is at 1190 McElroy Creek Road approximately 1.5 miles from this intersection.

Description of Change: The applicant proposes permitting the following after-the-fact emission units: one (1) 3-mmscfd triethylene glycol (TEG) dehydration unit with associated 0.3-mmBtu/hr reboiler, three (3) 0.75-mmBtu/hr GPU heaters, one (1) 0.5-mmBtu/hr GPU heater, one (1) 2.39-mmBtu/hr enclosed combustor, four (4) 400-bbl produced liquid tanks, and two (2) 210-bbl produced liquid tanks. The applicant proposes installing and operating one (1) 225-bhp compressor engine. The applicant proposes removal of one (1) 1,380-bhp compressor engine and one (1) 46-bhp compressor engine. The applicant proposes a reduction in condensate and produced water throughputs and removal of a vapor recovery unit.

Subject to 40CFR60, Subpart OOOO? Yes

Subject to 40CFR60, Subpart JJJJ? Yes, S1.

Subject to 40CFR63, Subpart ZZZZ? Yes, S1 and S5A.

Subject to 40CFR63, Subpart HH? Yes

*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.*

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*The source is not subject to 45CSR30.*

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### 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 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 checked="" type="checkbox"/>
Section 17	Dehydration Units With Exemption from NESHAP Standard, Subpart HH § 63.764(d) (40CFR63, Subpart HH)	<input checked="" 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
S1	1E	Compressor Engine Caterpillar G3516B 4SLB	1C (ox. cat.)	2012	1,380	bhp	10, 13, 15
S3A	3E	TEG Dehydration Reboiler	VCU-1	2014	0.5	mmBtu/hr	7
S4A	3E	Dehydration Still Vent	S3A or S6-1 through S6-3	2014	40	mmscf/day	16, 17
S4B	3E	Dehydration Flash Tank	S3A or S6-1 through S6-3	2014	40	mmscf/day	16, 17
S5A	5E-A	Compressor Engine Cummins GTA855 225 bhp	4C (NSCR)	2016	225	bhp	10, 15
HTR-1	7E	GPU Heater Pride of the Hills	N/A	2014	1.0	MMBtu/hr	7
HTR-2	8E	GPU Heater Pride of the Hills	N/A	2014	1.0	MMBtu/hr	7
HTR-3	9E	GPU Heater Pride of the Hills	N/A	2014	1.0	MMBtu/hr	7
HTR-4	10E	GPU Heater Pride of the Hills	N/A	2014	1.0	MMBtu/hr	7
HTR-5	11E	GPU Heater Pride of the Hills	N/A	2014	1.0	MMBtu/hr	7
S6-1	6E-1	Enclosed Combustor COMM Combustor 200	None	2014	7.7	MMBtu/hr	14
S6-2	6E-2	Enclosed Combustor COMM Combustor 200	None	2014	7.7	MMBtu/hr	14
S6-3	6E-3	Enclosed Combustor COMM Combustor 200	None	2014	7.7	MMBtu/hr	14
T01 – T03	6E-1 Through 6E-3	Produced Water Tanks	None	2014	400	BBL	6
T04 – T06	6E-1 Through 6E-3	Condensate Tanks	None	2014	400	BBL	6
1S-A	1E-A	GPU Heater	None	2011	0.75	mmBtu/hr	7
1S-B	1E-B	GPU Heater	None	2011	0.75	mmBtu/hr	7
1S-C	1E-C	GPU Heater	None	2011	0.75	mmBtu/hr	7
1S-D	1E-D	GPU Heater	None	2011	0.75	mmBtu/hr	7

2S	2ER	Dehydration Unit Reboiler	None	2015	0.3	mmBtu/hr	7
3S	3ER	Dehydration Unit Still Vent	None	2015	3	mmscfd	16, 17
4S	4ER	Dehydration Unit Flash Tank	VCU-1R	2015	3	mmscfd	16, 17
VCU-1	4ER	Enclosed Combustor Abutec-20 7.7 mmBtu/hr	None	2014	2.39	mmBtu/hr	14
TL-1	4ER	Truck Loading (Condensate)	VCU-1	2011	154,800	Gallons/year	11
T01R – T04R	4ER	Produced Liquid Tanks	VCU-1	2011	400	bbl	6
T05R – T06R	4ER	Produced Liquid Tanks	VCU-1	2011	210	bbl	6
TL-2	5ER	Truck Loading (Produced Water)	None	2011	908,000	Gallons/year	11

Control Devices						
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
1C	CO, 50% VOC, 40% HCHO, 40%	Miratech Oxidation Catalyst	2012	-	-	10, 13, 15
4C	NOx, 75% CO, 50% VOC, 50%	NSCR Catalyst	2016	-	-	10, 13, 15
S6-1	98%	Vapor Combustor COMM Combustor 200	2014	7.7	mmBtu/hr	14
S6-2	98%	Vapor Combustor COMM Combustor 200	2014	7.7	mmBtu/hr	14
S6-3	98%	Vapor Combustor COMM Combustor 200	2014	7.7	mmBtu/hr	14
VCU-1	98%	Enclosed Combustor Abutec-20	2014	2.39	mmBtu/hr	14
Emission Reduction Systems					Yes or No	G-70A Applicable Sections
Was a vapor recovery system (VRU) used to determine emission limits?					No	-
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
047-095-02005	047-095-02019	047-095-02027
047-095-02004		

### 3.0 Emission Limitations

Emission Unit ID	Emission Point ID	Emission Unit Description	Regulated Pollutant	Maximum Potential Emissions	
				Hourly (lb/hr)	Annual (tpy)
S1	1E	Compressor Engine Caterpillar G3516B	Nitrogen Oxides	1.52	6.66
			Carbon Monoxide	4.41	19.32
			Volatile Organic Compounds	1.22	5.33
			Formaldehyde	0.75	3.28
S3A	3E	TEG Dehydration Reboiler (controlling: still vent & flash tank)	Nitrogen Oxides	0.05	0.22
			Carbon Monoxide	0.04	0.18
			Volatile Organic Compounds	1.00	4.39
S5A	5E-A	Compressor Engine Cummins GTA855 225 bhp	Nitrogen Oxides	1.50	6.56
			Carbon Monoxide	0.72	3.15
			Volatile Organic Compounds	0.15	0.65
			Formaldehyde	0.05	0.22
S6-1 Through S6-3	6E-1 Through 6E-3	Enclosed Combustors COMM Combustor 200 7.7 mmBtu/hr each	Nitrogen Oxides	0.81	3.55
			Carbon Monoxide	4.41	19.32
			Volatile Organic Compounds	0.79	3.46
HTR-1 Through HTR-5	7E Through 11E	GPU Heaters 1.0 mmBtu/hr each (Emission Limits per Unit)	Nitrogen Oxides	0.10	0.44
			Carbon Dioxide	0.09	0.37
1S-A Through 1S-D	1E-A Through 1E-D	GPU Heaters 0.75 mmBtu/hr each (Emission Limits per Unit)	Nitrogen Oxides	0.08	0.33
			Carbon Dioxide	0.07	0.28
2S	2ER	Dehydration Unit Reboiler 0.3 mmBtu/hr	Nitrogen Oxides	0.03	0.13
			Carbon Dioxide	0.03	0.11
3S	3ER	Dehydration Unit Still Vent 3 mmscfd	Volatile Organic Compounds	1.23	5.38
			Benzene	0.04	0.17
VCU-1	4E	Enclosed Combustor	Nitrogen Oxides	0.04	0.20
			Carbon Monoxide	0.24	1.07
			Volatile Organic Compounds	0.26	1.16

### 4.0 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)
S1	After July 1, 2010	Yes	Yes	Yes
S5A	December 1, 2007	No	Yes	Yes