



## Gas Venting APEN – Form APCD-211

Air Pollutant Emission Notice (APEN) and  
Application for Construction Permit

All sections of this APEN and application must be completed for both new and existing facilities, including APEN updates. An application with missing information may be determined incomplete and may be returned or result in longer application processing times. *You may be charged an additional APEN fee if the APEN is filled out incorrectly or is missing information and requires re-submittal.*

This APEN is to be used for gas venting only. Gas venting includes emissions from gas/liquid separators, well head casing, pneumatic pumps, blowdown events, among other events. If your emission unit does not fall into this category, there may be a more specific APEN for your source (e.g. amine sweetening unit, hydrocarbon liquid loading, condensate storage tanks, etc.). In addition, the General APEN (Form APCD-200) is available if the specialty APEN options will not satisfy your reporting needs. A list of all available APEN forms can be found on the Air Pollution Control Division (APCD) website at: [www.colorado.gov/cdphe/apcd](http://www.colorado.gov/cdphe/apcd).

This emission notice is valid for five (5) years. Submission of a revised APEN is required 30 days prior to expiration of the five-year term, or when a reportable change is made (significant emissions increase, increase production, new equipment, change in fuel type, etc.). See Regulation No. 3, Part A, II.C. for revised APEN requirements.

Permit Number:

18MF0689

AIRS ID Number:

081 / 0588 / 001

[Leave blank unless APCD has already assigned a permit # and AIRS ID]

### Section 1 - Administrative Information

Company Name<sup>1</sup>: Petroleum Resource Management Corp.

Site Name: Welba Peak Unit WPU-36-1V

Site Location: Lot 19 Sec 36 T11N R89W

Site Location  
County: Moffat

NAICS or SIC Code: 211120

Mailing Address:  
(Include Zip Code) 1580 Lincoln St., Ste 635

Denver, CO 80203

Contact Person: Duncan Shepherd

Phone Number: (303) 861-9480

E-Mail Address<sup>2</sup>: petromgt@comcast.net

<sup>1</sup> Use the full, legal company name registered with the Colorado Secretary of State. This is the company name that will appear on all documents issued by the APCD. Any changes will require additional paperwork.

<sup>2</sup> Permits, exemption letters, and any processing invoices will be issued by the APCD via e-mail to the address provided.



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## Section 2 - Requested Action

☒ NEW permit OR newly-reported emission source

- OR -

☐ MODIFICATION to existing permit (check each box below that applies)

- |   |   |   |
|---|---|---|
| <input type="checkbox"/> Change fuel or equipment | <input type="checkbox"/> Change company name <sup>3</sup>   | <input type="checkbox"/> Add point to existing permit |
| <input type="checkbox"/> Change permit limit      | <input type="checkbox"/> Transfer of ownership <sup>4</sup> | <input type="checkbox"/> Other (describe below)       |

- OR -

☐ APEN submittal for update only (Note blank APENs will not be accepted)

- ADDITIONAL PERMIT ACTIONS -

☐ Limit Hazardous Air Pollutants (HAPs) with a federally-enforceable limit on Potential To Emit (PTE)

Additional Info & Notes: \_\_\_\_\_

<sup>3</sup> For company name change, a completed Company Name Change Certification Form (Form APCD-106) must be submitted.

<sup>4</sup> For transfer of ownership, a completed Transfer of Ownership Certification Form (Form APCD-104) must be submitted.

## Section 3 - General Information

General description of equipment and purpose: Separator produced gas flaring

Company equipment Identification No. (optional): SEP-01

For existing sources, operation began on: 1/13/2016

For new, modified, or reconstructed sources, the projected start-up date is: \_\_\_\_\_

☒ Check this box if operating hours are 8,760 hours per year; if fewer, fill out the fields below:

Normal Hours of Source Operation:	hours/day	days/week	weeks/year
_____	_____	_____	_____

Will this equipment be operated in any NAAQS nonattainment area?

☐ Yes ☒ No

Is this equipment located at a stationary source that is considered a Major Source of (HAP) Emissions?

☐ Yes ☒ No

Is this equipment subject to Colorado Regulation No. 7, Section XVII.G?

☐ Yes ☒ No



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**Section 4 - Process Equipment Information**☒ Gas/Liquid Separator☐ Well Head Casing☐ Pneumatic Pump

Make: \_\_\_\_\_ Model: \_\_\_\_\_ Serial #: \_\_\_\_\_ Capacity: \_\_\_\_\_ gal/min

☐ Compressor Rod Packing

Make: \_\_\_\_\_ Model: \_\_\_\_\_ # of Pistons: \_\_\_\_\_ Leak Rate: \_\_\_\_\_ Scf/hr/pist

☐ Blowdown Events

# of Events/year: \_\_\_\_\_ Volume per event: \_\_\_\_\_ MMscf/event

☐ Other

Description: \_\_\_\_\_

If you are requesting uncontrolled VOC emissions greater than 100 tpy for a gas/liquid separator, you must use Gas Venting as a process parameter.

Are requested uncontrolled VOC emissions greater than 100 tpy?

☒ Yes☒ No**Gas Venting**Process Parameters<sup>5</sup>:

Requested:	216	MMSCF/year	Vent Gas Heating Value:	1020-1512.5	BTU/SCF
			Actual:	216	MMSCF/year

-OR-

**Liquid Throughput**  
Process Parameters<sup>5</sup>:

Requested:		bbl/year	Actual:		bbl/year
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**Vented Gas Properties:**

Molecular Weight:	22.89
VOC (Weight %)	25.39
Benzene (Weight %)	0.01805
Toluene (Weight %)	0.006027
Ethylbenzene (Weight %)	0.0001524
Xylene (Weight %)	0.0008776
n-Hexane (Weight %)	0.1374
2,2,4-Trimethylpentane (Weight %)	0.02363

DW  
6/3/19**Additional Required Information:**

- ☒ Attach a representative gas analysis (including BTEX & n-Hexane, temperature, and pressure)
- ☐ Attach a representative pressurized extended liquids analysis (including BTEX & n-Hexane, temperature, and pressure)

<sup>5</sup> Requested values will become permit limitations. Requested limit(s) should consider future process growth.



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**Section 5 - Stack Information**

Geographical Coordinates (Latitude/Longitude or UTM)
40.860331, -107.325012

Operator Stack ID No.	Discharge Height Above Ground Level (Feet)	Temp. (°F)	Flow Rate (ACFM)	Velocity (ft/sec)
FL-1	20	~1000	TBD	TBD

Indicate the direction of the stack outlet: (check one)

☒ Upward☐ Downward☐ Upward with obstructing raincap☐ Horizontal☐ Other (describe): \_\_\_\_\_

Indicate the stack opening and size: (check one)

☒ Circular

Interior stack diameter (inches): \_\_\_\_\_

☐ Other (describe): \_\_\_\_\_**Section 6 - Control Device Information**☐ Check this box if no emission control equipment or practices are used to reduce emissions, and skip to the next section.

<input type="checkbox"/> VRU:	Pollutants Controlled: _____
	Size: _____ Make/Model: _____
	Requested Control Efficiency: _____ %
	VRU Downtime or Bypassed: _____ %

<input checked="" type="checkbox"/> Combustion Device:	Pollutants Controlled: <b>VOC and HAPs</b>
	Rating: _____ MMBtu/hr
	Type: Enclosed Combustor Make/Model: <b>TBD</b>
	Requested Control Efficiency: <b>95%</b> %
	Manufacturer Guaranteed Control Efficiency: <b>98%</b> %
	Minimum Temperature: _____ Waste Gas Heat Content: <b>1286</b> Btu/scf <del>1020-1,512.5</del>
Constant Pilot Light: <input type="checkbox"/> Yes <input type="checkbox"/> No Pilot burner Rating: <b>0.10</b> MMBtu/hr	<b>6/3/19</b>

<input type="checkbox"/> Other:	Pollutants Controlled: _____
	Description: _____
	Requested Control Efficiency: _____ %





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**Section 7 - Emissions Inventory Information**

Attach all emissions calculations and emission factor documentation to this APEN form.

If multiple emission control methods were identified in Section 6, the following table can be used to state the overall (or combined) control efficiency (% reduction):

Pollutant	Description of Control Method(s)	Overall Requested Control Efficiency (% reduction in emissions)
PM		
SO <sub>x</sub>		
NO <sub>x</sub>		
CO		
VOC	Flare	95%
HAPs	Flare	95%
Other:		

From what year is the following reported actual annual emissions data? 2018 OOS

Criteria Pollutant Emissions Inventory							
Pollutant	Emission Factor			Actual Annual Emissions		Requested Annual Permit Emission Limit(s) <sup>5</sup>	
	Uncontrolled Basis	Units	Source (AP-42, Mfg., etc.)	Uncontrolled Emissions (tons/year)	Controlled Emissions <sup>6</sup> (tons/year)	Uncontrolled Emissions (tons/year)	Controlled Emissions (tons/year)
PM	0.0075	lb/MMBtu	AP42			1.04	1.04
SO <sub>x</sub>	0.0006	lb/MMBtu	AP42			0.08	0.08
NO <sub>x</sub>	0.068	lb/MMBtu	AP42			9.48	9.48
CO	0.31	lb/MMBtu	AP42			43.2	43.2
VOC	15319.0	lb/MMSCF	Mass Balance			1659.8	82.7

Non-Criteria Reportable Pollutant Emissions Inventory						
Chemical Name	Chemical Abstract Service (CAS) Number	Emission Factor			Actual Annual Emissions	
		Uncontrolled Basis	Units	Source (AP-42, Mfg., etc.)	Uncontrolled Emissions (pounds/year)	Controlled Emissions <sup>6</sup> (pounds/year)
Benzene	71432	10.89	lb/MMSCF	Mass Balance	2361	118
Toluene	108883	3.636	lb/MMSCF	Mass Balance	788	40
Ethylbenzene	100414	0.09195	lb/MMSCF	Mass Balance	20	1
Xylene	1330207	0.5294	lb/MMSCF	Mass Balance	115	6
n-Hexane	110543	82.91	lb/MMSCF	Mass Balance	17967	898
2,2,4-Trimethylpentane	540841	14.25	lb/MMSCF	Mass Balance	3089	154
Other:						

<sup>5</sup> Requested values will become permit limitations. Requested limit(s) should consider future process growth.<sup>6</sup> Annual emissions fees will be based on actual controlled emissions reported. If source has not yet started operating, leave blank.

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### Section 8 - Applicant Certification

I hereby certify that all information contained herein and information submitted with this application is complete, true, and correct.

Duncan Shepherd 11/12/19  
Signature of Legally Authorized Person (not a vendor or consultant) Date  
Duncan Shepherd President  
Name (please print) Title

Check the appropriate box to request a copy of the:

- ☒ Draft permit prior to issuance  
☒ Draft permit prior to public notice

(Checking any of these boxes may result in an increased fee and/or processing time)

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Send this form along with \$191.13 to:

Colorado Department of Public Health and Environment  
Air Pollution Control Division  
APCD-SS-B1  
4300 Cherry Creek Drive South  
Denver, CO 80246-1530

Make check payable to:

Colorado Department of Public Health and Environment

For more information or assistance call:

Small Business Assistance Program  
(303) 692-3175 or (303) 692-3148

APCD Main Phone Number  
(303) 692-3150

Or visit the APCD website at:

<https://www.colorado.gov/cdphe/apcd>