



**March 11, 2020**

**New Mexico Environment Department  
Air Quality Bureau – Permits Section  
525 Camino de los Marquez, Suite 1  
Santa Fe, New Mexico, 87505**

**RE: Significant Revision to NSR Permit No. 319-M11-R1, Frontier Field Services –  
Maljamar gas Plant**

To Whom It May Concern,

Frontier Field Services, LLC (“Frontier”) is submitting an application for a significant revision to NSR Permit No. 319-M11-R1 for the Maljamar Gas Plant (“the Facility”). The Facility is currently permitted to operate under NSR Permit No. 319-M11-R1 and Operating Permit No. P123-R3. The Facility is a cryogenic natural gas processing plant that recovers natural gas liquids from inlet natural gas and sweetens sour natural gas. The revision specifically is proposing the authorization of a new natural gas-fired four (4) stroke lean burn engine, a new amine contactor, and to modify the existing process fugitive emissions to account for new fugitive components associated with the project.

Enclosed is one hard copy of the application and an application check for the \$500 submittal fee.

Please feel free to contact Mary Taylor (346) 224-2459 or via email at [mtaylor@durangomidstream.com](mailto:mtaylor@durangomidstream.com).

Sincerely,

A handwritten signature in black ink that reads 'Robert LeBlanc'.

Robert LeBlanc  
Project Consultant

OFFICE: 281-664-2490  
FAX: 281-664-2491

20465 State Highway 249, Suite 300  
Houston, TX 77070

[spiritenv.com](http://spiritenv.com)

<p><b>Mail Application To:</b></p> <p>New Mexico Environment Department Air Quality Bureau Permits Section 525 Camino de los Marquez, Suite 1 Santa Fe, New Mexico, 87505</p> <p>Phone: (505) 476-4300 Fax: (505) 476-4375 www.env.nm.gov/aqb</p>		<p><b>For Department use only:</b></p> <p> </p> <p>AIRS No.:</p>
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## Universal Air Quality Permit Application

### Use this application for NOI, NSR, or Title V sources.

Use this application for: the initial application, modifications, technical revisions, and renewals. For technical revisions, complete Sections, 1-A, 1-B, 2-E, 3, 9 and any other sections that are relevant to the requested action; coordination with the Air Quality Bureau permit staff prior to submittal is encouraged to clarify submittal requirements and to determine if more or less than these sections of the application are needed. Use this application for streamline permits as well. [See Section 1-I for submittal instructions for other permits.](#)

**This application is submitted as** (check all that apply):  Request for a No Permit Required Determination (no fee)  
 **Updating** an application currently under NMED review. Include this page and all pages that are being updated (no fee required).  
 Construction Status:  Not Constructed  Existing Permitted (or NOI) Facility  Existing Non-permitted (or NOI) Facility  
 Minor Source:  a NOI 20.2.73 NMAC  20.2.72 NMAC application or revision  20.2.72.300 NMAC Streamline application  
 Title V Source:  Title V (new)  Title V renewal  TV minor mod.  TV significant mod. TV Acid Rain:  New  Renewal  
 PSD Major Source:  PSD major source (new)  minor modification to a PSD source  a PSD major modification

**Acknowledgements:**

I acknowledge that a pre-application meeting is available to me upon request.  Title V Operating, Title IV Acid Rain, and NPR applications have no fees.

\$500 NSR application Filing Fee enclosed **OR**  The full permit fee associated with 10 fee points (required w/ streamline applications).

Check No.: **12998** in the amount of **\$500**

I acknowledge the required submittal format for the hard copy application is printed double sided ‘head-to-toe’, 2-hole punched (except the Sect. 2 landscape tables is printed ‘head-to-head’), numbered tab separators. Incl. a copy of the check on a separate page.

This facility qualifies to receive assistance from the Small Business Environmental Assistance program (SBEAP) and qualifies for 50% of the normal application and permit fees. Enclosed is a check for 50% of the normal application fee which will be verified with the Small Business Certification Form for your company.

This facility qualifies to receive assistance from the Small Business Environmental Assistance Program (SBEAP) but does not qualify for 50% of the normal application and permit fees. To see if you qualify for SBEAP assistance and for the small business certification form go to [https://www.env.nm.gov/aqb/sbap/small\\_business\\_criteria.html](https://www.env.nm.gov/aqb/sbap/small_business_criteria.html) ).

**Citation:** Please provide the **low level citation** under which this application is being submitted: **20.2.72.219.D.1 NMAC** (e.g. application for a new minor source would be 20.2.72.200.A NMAC, one example for a Technical Permit Revision is 20.2.72.219.B.1.b NMAC, a Title V acid rain application would be: 20.2.70.200.C NMAC)

## Section 1 – Facility Information

AI # if known (see 1 <sup>st</sup> 3 to 5 #s of permit IDEA ID No.): <b>0319</b>	Updating Permit/NOI #: <b>0319-M11</b>
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## Section 1-A: Company Information

1	Facility Name: <b>Maljamar Gas Plant</b>	Plant primary SIC Code (4 digits): <b>1321</b> Plant NAIC code (6 digits): <b>211130</b>
a	Facility Street Address (If no facility street address, provide directions from a prominent landmark): <b>1001 Conoco Rd., Maljamar, NM 88264</b>	
2	Plant Operator Company Name: <b>Frontier Field Services, LLC</b>	Phone/Fax: <b>(970) 764-6900/(970) 382-0462</b>
a	Plant Operator Address: <b>125 Mercado St., Suite 201, Durango, CO 81301</b>	
b	Plant Operator's New Mexico Corporate ID or Tax ID: <b>32-0061652</b>	
3	Plant Owner(s) name(s): <b>Durango Midstream, LLC</b>	Phone/Fax: <b>(346) 224-2459</b>
a	Plant Owner(s) Mailing Address(s): <b>10077 Grogans Mill Road, Suite 300, The Woodlands, TX 77380</b>	
4	Bill To (Company): <b>Durango Midstream, LLC</b>	Phone/Fax: <b>(346) 224-2459</b>
a	Mailing Address: <b>10077 Grogans Mill Road, Suite 300, The Woodlands, TX 77380</b>	E-mail: <b>mtaylor@durangomidstream.com</b>
5	<input checked="" type="checkbox"/> Preparer: <b>Robert LeBlanc</b> <input checked="" type="checkbox"/> Consultant: <b>Spirit Environmental, LLC</b>	Phone/Fax: <b>281-664-2839</b>
a	Mailing Address: <b>20465 State Highway 249, Suite 300, Houston, TX 77070</b>	E-mail: <b>rleblanc@spiritenv.com</b>
6	Plant Operator Contact: <b>John Prentiss</b>	Phone/Fax: <b>(575) 676-3528 / (575) 676-2401</b>
a	Address: <b>1001 Conoco Rd., Maljamar, NM 88264</b>	E-mail: <b>jprentiss@durangomidstream.com</b>
7	Air Permit Contact: <b>Mary I. Taylor</b>	Title: <b>Environmental Manager</b>
a	E-mail: <b>mtaylor@durangomidstream.com</b>	Phone/Fax: <b>346-224-2459</b>
b	Mailing Address: <b>10077 Grogans Mill Road, Suite 300, The Woodlands, TX 77380</b>	
c	The designated Air permit Contact will receive all official correspondence (i.e. letters, permits) from the Air Quality Bureau.	

## Section 1-B: Current Facility Status

1.a	Has this facility already been constructed? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	1.b If yes to question 1.a, is it currently operating in New Mexico? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
2	If yes to question 1.a, was the existing facility subject to a Notice of Intent (NOI) (20.2.73 NMAC) before submittal of this application? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If yes to question 1.a, was the existing facility subject to a construction permit (20.2.72 NMAC) before submittal of this application? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
3	Is the facility currently shut down? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If yes, give month and year of shut down (MM/YY): <b>N/A</b>
4	Was this facility constructed before 8/31/1972 and continuously operated since 1972? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
5	If Yes to question 3, has this facility been modified (see 20.2.72.7.P NMAC) or the capacity increased since 8/31/1972? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
6	Does this facility have a Title V operating permit (20.2.70 NMAC)? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	If yes, the permit No. is: <b>P123-R3</b>
7	Has this facility been issued a No Permit Required (NPR)? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If yes, the NPR No. is: <b>N/A</b>
8	Has this facility been issued a Notice of Intent (NOI)? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If yes, the NOI No. is: <b>N/A</b>

9	Does this facility have a construction permit (20.2.72/20.2.74 NMAC)? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	If yes, the permit No. is: <b>0319-M11-R1</b>
10	Is this facility registered under a General permit (GCP-1, GCP-2, etc.)? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If yes, the register No. is: <b>N/A</b>

### Section 1-C: Facility Input Capacity & Production Rate

1	What is the facility's maximum input capacity, specify units (reference here and list capacities in Section 20, if more room is required)			
a	Current	Hourly: <b>6.9 mmscf gas; 42 bbl condensate; 1,042 bbl NGL</b>	Daily: <b>165 mmscf gas; 1,000 bbl condensate; 25,000 bbl NGL</b>	Annually: <b>60,225 mmscf gas; 365,000 bbl condensate; 9,125,000 bbl NGL</b>
b	Proposed	Hourly: <b>6.9 mmscf gas; 42 bbl condensate; 1,042 bbl NGL</b>	Daily: <b>165 mmscf gas; 1,000 bbl condensate; 25,000 bbl NGL</b>	Annually: <b>60,225 mmscf gas; 365,000 bbl condensate; 9,125,000 bbl NGL</b>
2	What is the facility's maximum production rate, specify units (reference here and list capacities in Section 20, if more room is required)			
a	Current	Hourly: <b>6.9 mmscf gas; 42 bbl condensate; 1,042 bbl NGL</b>	Daily: <b>165 mmscf gas; 1,000 bbl condensate; 25,000 bbl NGL</b>	Annually: <b>60,225 mmscf gas; 365,000 bbl condensate; 9,125,000 bbl NGL</b>
b	Proposed	Hourly: <b>6.9 mmscf gas; 42 bbl condensate; 1,042 bbl NGL</b>	Daily: <b>165 mmscf gas; 1,000 bbl condensate; 25,000 bbl NGL</b>	Annually: <b>60,225 mmscf gas; 365,000 bbl condensate; 9,125,000 bbl NGL</b>

### Section 1-D: Facility Location Information

1	Section: <b>21</b>	Range: <b>32E</b>	Township: <b>17S</b>	County: <b>Lea</b>	Elevation (ft): <b>4,020</b>
2	UTM Zone: <input type="checkbox"/> 12 or <input checked="" type="checkbox"/> 13			Datum: <input type="checkbox"/> NAD 27 <input type="checkbox"/> NAD 83 <input checked="" type="checkbox"/> WGS 84	
a	UTM E (in meters, to nearest 10 meters): <b>615,020</b>			UTM N (in meters, to nearest 10 meters): <b>3,631,380</b>	
b	<b>AND</b> Latitude (deg., min., sec.): <b>32°48'52"</b>			Longitude (deg., min., sec.): <b>-103°46'17"</b>	
3	Name and zip code of nearest New Mexico town: <b>Maljamar, NM 88264</b>				
4	Detailed Driving Instructions from nearest NM town (attach a road map if necessary): <b>From Highway 82, Head south on Maljamar Rd for 2.7 miles toward Sand Rd. Turn right onto Conoco Rd and the Maljamar gas plant will be on the right in 0.5 miles.</b>				
5	The facility is 2.8 miles southwest of Maljamar.				
6	Status of land at facility (check one): <input checked="" type="checkbox"/> Private <input type="checkbox"/> Indian/Pueblo <input type="checkbox"/> Federal BLM <input type="checkbox"/> Federal Forest Service <input type="checkbox"/> Other (specify)				
7	List all municipalities, Indian tribes, and counties within a ten (10) mile radius (20.2.72.203.B.2 NMAC) of the property on which the facility is proposed to be constructed or operated: <b>Lea County, Eddy County, Maljamar, and Loco Hills</b>				
8	<b>20.2.72 NMAC applications only:</b> Will the property on which the facility is proposed to be constructed or operated be closer than 50 km (31 miles) to other states, Bernalillo County, or a Class I area (see <a href="http://www.env.nm.gov/aqb/modeling/classIareas.html">www.env.nm.gov/aqb/modeling/classIareas.html</a> )? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No (20.2.72.206.A.7 NMAC) If yes, list all with corresponding distances in kilometers:				
9	Name nearest Class I area: <b>Carlsbad Caverns National Park</b>				
10	Shortest distance (in km) from facility boundary to the boundary of the nearest Class I area (to the nearest 10 meters): <b>90 km</b>				
11	Distance (meters) from the perimeter of the Area of Operations (AO is defined as the plant site inclusive of all disturbed lands, including mining overburden removal areas) to nearest residence, school or occupied structure: <b>4,000 m</b>				
12	Method(s) used to delineate the Restricted Area: <b>Fence, security personnel, and locking gates.</b>  "Restricted Area" is an area to which public entry is effectively precluded. Effective barriers include continuous fencing, continuous walls, or other continuous barriers approved by the Department, such as rugged physical terrain with steep grade that would require special equipment to traverse. If a large property is completely enclosed by fencing, a restricted area within the property may be identified with signage only. Public roads cannot be part of a Restricted Area.				
13	Does the owner/operator intend to operate this source as a portable stationary source as defined in 20.2.72.7.X NMAC? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No A portable stationary source is not a mobile source, such as an automobile, but a source that can be installed permanently at one location or that can be re-installed at various locations, such as a hot mix asphalt plant that is moved to different job sites.				
14	Will this facility operate in conjunction with other air regulated parties on the same property? <input checked="" type="checkbox"/> No <input type="checkbox"/> Yes If yes, what is the name and permit number (if known) of the other facility?				

**Section 1-E: Proposed Operating Schedule** (The 1-E.1 & 1-E.2 operating schedules may become conditions in the permit.)

1	Facility <b>maximum</b> operating ( $\frac{\text{hours}}{\text{day}}$ ): <b>24</b>	( $\frac{\text{days}}{\text{week}}$ ): <b>7</b>	( $\frac{\text{weeks}}{\text{year}}$ ): <b>52</b>	( $\frac{\text{hours}}{\text{year}}$ ): <b>8,760</b>
2	Facility's maximum daily operating schedule (if less than 24 $\frac{\text{hours}}{\text{day}}$ )? <b>N/A</b> Start:	<input type="checkbox"/> AM <input type="checkbox"/> PM	End: <b>N/A</b>	<input type="checkbox"/> AM <input type="checkbox"/> PM
3	Month and year of anticipated start of construction: <b>N/A</b>			
4	Month and year of anticipated construction completion: <b>N/A</b>			
5	Month and year of anticipated startup of new or modified facility: <b>N/A</b>			
6	Will this facility operate at this site for more than one year? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No			

**Section 1-F: Other Facility Information**

1	Are there any current Notice of Violations (NOV), compliance orders, or any other compliance or enforcement issues related to this facility? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No If yes, specify:		
a	If yes, NOV date or description of issue:	NOV Tracking No:	
b	Is this application in response to any issue listed in 1-F, 1 or 1a above? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No If Yes, provide the 1c & 1d info below:		
c	Document Title: <b>N/A</b>	Date: <b>N/A</b>	Requirement # (or page # and paragraph #): <b>N/A</b>
d	Provide the required text to be inserted in this permit: <b>N/A</b>		
2	Is air quality dispersion modeling or modeling waiver being submitted with this application? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
3	Does this facility require an "Air Toxics" permit under 20.2.72.400 NMAC & 20.2.72.502, Tables A and/or B? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
4	Will this facility be a source of federal Hazardous Air Pollutants (HAP)? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		
a	If Yes, what type of source? <input type="checkbox"/> Major ( $\geq 10$ tpy of any single HAP <b>OR</b> $\geq 25$ tpy of any combination of HAPS) <b>OR</b> <input checked="" type="checkbox"/> Minor ( $< 10$ tpy of any single HAP <b>AND</b> $< 25$ tpy of any combination of HAPS)		
5	Is any unit exempt under 20.2.72.202.B.3 NMAC? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
a	If yes, include the name of company providing commercial electric power to the facility: <b>N/A</b> Commercial power is purchased from a commercial utility company, which specifically does not include power generated on site for the sole purpose of the user.		

**Section 1-G: Streamline Application** (This section applies to 20.2.72.300 NMAC Streamline applications only)

1	<input type="checkbox"/> I have filled out Section 18, "Addendum for Streamline Applications." <input checked="" type="checkbox"/> N/A (This is not a Streamline application.)
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**Section 1-H: Current Title V Information - Required for all applications from TV Sources**

(Title V-source required information for all applications submitted pursuant to 20.2.72 NMAC (Minor Construction Permits), or 20.2.74/20.2.79 NMAC (Major PSD/NNSR applications), and/or 20.2.70 NMAC (Title V))

1	Responsible Official (R.O.) (20.2.70.300.D.2 NMAC): <b>Darin B. Kennard</b>	Phone: <b>346-351-2790</b>
a	R.O. Title: <b>Vice President and General Manager</b>	R.O. e-mail: <b>dkennard@durangomidstream.com</b>
b	R. O. Address: <b>10077 Grogans Mill Road, Suite 300, The Woodlands, TX 77380</b>	
2	Alternate Responsible Official (20.2.70.300.D.2 NMAC): <b>N/A</b>	Phone: <b>N/A</b>
a	A. R.O. Title: <b>N/A</b>	A. R.O. e-mail: <b>N/A</b>
b	A. R. O. Address: <b>N/A</b>	

3	Company's Corporate or Partnership Relationship to any other Air Quality Permittee (List the names of any companies that have operating (20.2.70 NMAC) permits and with whom the applicant for this permit has a corporate or partnership relationship): <b>N/A</b>
4	Name of Parent Company ("Parent Company" means the primary name of the organization that owns the company to be permitted wholly or in part.): <b>Durango Midstream, LLC</b>
a	Address of Parent Company: <b>10077 Grogans Mill Road, Suite 300, The Woodlands, TX 77380</b>
5	Names of Subsidiary Companies ("Subsidiary Companies" means organizations, branches, divisions or subsidiaries, which are owned, wholly or in part, by the company to be permitted.): <b>N/A</b>
6	Telephone numbers & names of the owners' agents and site contacts familiar with plant operations: <b>Darin Kennard (346) 351-2790</b>
7	Affected Programs to include Other States, local air pollution control programs (i.e. Bernalillo) and Indian tribes: Will the property on which the facility is proposed to be constructed or operated be closer than 80 km (50 miles) from other states, local pollution control programs, and Indian tribes and pueblos (20.2.70.402.A.2 and 20.2.70.7.B)? If yes, state which ones and provide the distances in kilometers: <b>Texas State Line – 66 km.</b>

## Section 1-I – Submittal Requirements

Each 20.2.73 NMAC (NOI), a 20.2.70 NMAC (Title V), a 20.2.72 NMAC (NSR minor source), or 20.2.74 NMAC (PSD) application package shall consist of the following:

### Hard Copy Submittal Requirements:

- 1) One hard copy **original signed and notarized application package printed double sided 'head-to-toe' 2-hole punched** as we bind the document on top, not on the side; except Section 2 (landscape tables), which should be **head-to-head**. Please use **numbered tab separators** in the hard copy submittal(s) as this facilitates the review process. For NOI submittals only, hard copies of UA1, Tables 2A, 2D & 2F, Section 3 and the signed Certification Page are required. **Please include a copy of the check on a separate page.**
- 2) If the application is for a minor NSR, PSD, NNSR, or Title V application, include one working hard **copy** for Department use. This **copy** should be printed in book form, 3-hole punched, and **must be double sided**. Note that this is in addition to the head-to-toe 2-hole punched copy required in 1) above. Minor NSR Technical Permit revisions (20.2.72.219.B NMAC) only need to fill out Sections 1-A, 1-B, 3, and should fill out those portions of other Section(s) relevant to the technical permit revision. TV Minor Modifications need only fill out Sections 1-A, 1-B, 1-H, 3, and those portions of other Section(s) relevant to the minor modification. NMED may require additional portions of the application to be submitted, as needed.
- 3) The entire NOI or Permit application package, including the full modeling study, should be submitted electronically. Electronic files for applications for NOIs, any type of General Construction Permit (GCP), or technical revisions to NSRs must be submitted with compact disk (CD) or digital versatile disc (DVD). For these permit application submittals, **two CD** copies are required (in sleeves, not crystal cases, please), with additional CD copies as specified below. NOI applications require only a **single CD** submittal. Electronic files for other New Source Review (construction) permits/permit modifications or Title V permits/permit modifications can be submitted on CD/DVD or sent through AQB's secure file transfer service.

### Electronic files sent by (check one):

CD/DVD attached to paper application

secure electronic transfer. Air Permit Contact Name Mary Taylor

Email mtaylor@durangomidstream.com

Phone number (346) 224-2459

a. If the file transfer service is chosen by the applicant, after receipt of the application, the Bureau will email the applicant with instructions for submitting the electronic files through a secure file transfer service. Submission of the electronic files through the file transfer service needs to be completed within 3 business days after the invitation is received, so the applicant should ensure that the files are ready when sending the hard copy of the application. The applicant will not need a password to complete the transfer. **Do not use the file transfer service for NOIs, any type of GCP, or technical revisions to NSR permits.**

- 4) Optionally, the applicant may submit the files with the application on compact disk (CD) or digital versatile disc (DVD) following the instructions above and the instructions in 5 for applications subject to PSD review.
- 5) If **air dispersion modeling** is required by the application type, include the **NMED Modeling Waiver** and/or electronic air dispersion modeling report, input, and output files. The dispersion modeling **summary report only** should be submitted as hard copy(ies) unless otherwise indicated by the Bureau.
- 6) If the applicant submits the electronic files on CD and the application is subject to PSD review under 20.2.74 NMAC (PSD) or NNSR under 20.2.79 NMC include,
  - a. one additional CD copy for US EPA,
  - b. one additional CD copy for each federal land manager affected (NPS, USFS, FWS, USDI) and,
  - c. one additional CD copy for each affected regulatory agency other than the Air Quality Bureau.

If the application is submitted electronically through the secure file transfer service, these extra CDs do not need to be submitted.

### Electronic Submittal Requirements [in addition to the required hard copy(ies)]:

- 1) All required electronic documents shall be submitted as 2 separate CDs or submitted through the AQB secure file transfer service. Submit a single PDF document of the entire application as submitted and the individual documents comprising the application.
- 2) The documents should also be submitted in Microsoft Office compatible file format (Word, Excel, etc.) allowing us to access the text and formulas in the documents (copy & paste). Any documents that cannot be submitted in a Microsoft Office compatible

format shall be saved as a PDF file from within the electronic document that created the file. If you are unable to provide Microsoft office compatible electronic files or internally generated PDF files of files (items that were not created electronically: i.e. brochures, maps, graphics, etc.), submit these items in hard copy format. We must be able to review the formulas and inputs that calculated the emissions.

- 3) It is preferred that this application form be submitted as 4 electronic files (**3 MSWord docs**: Universal Application section 1 [UA1], Universal Application section 3-19 [UA3], and Universal Application 4, the modeling report [UA4]) and **1 Excel file** of the tables (Universal Application section 2 [UA2]). Please include as many of the 3-19 Sections as practical in a single MS Word electronic document. Create separate electronic file(s) if a single file becomes too large or if portions must be saved in a file format other than MS Word.
- 4) The **electronic file names** shall be a maximum of 25 characters long (including spaces, if any). The format of the electronic Universal Application shall be in the format: "A-3423-FacilityName". The "A" distinguishes the file as an application submittal, as opposed to other documents the Department itself puts into the database. Thus, all electronic application submittals should begin with "A-". Modifications to existing facilities should use the **core permit number** (i.e. '3423') the Department assigned to the facility as the next 4 digits. Use 'XXXX' for new facility applications. The format of any separate electronic submittals (additional submittals such as non-Word attachments, re-submittals, application updates) and Section document shall be in the format: "A-3423-9-description", where "9" stands for the **section #** (in this case Section 9-Public Notice). Please refrain, as much as possible, from submitting any scanned documents as this file format is extremely large, which uses up too much storage capacity in our database. Please take the time to fill out the **header information** throughout all submittals as this will identify any loose pages, including the Application Date (date submitted) & Revision number (0 for original, 1, 2, etc.; which will help keep track of subsequent partial update(s) to the original submittal. Do not use special symbols (#, @, etc.) in file names. The footer information should not be modified by the applicant.

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**Table 2-A: Regulated Emission Sources**

Unit and stack numbering must correspond throughout the application package. If applying for a NOI under 20.2.73 NMAC, equipment exemptions under 2.72.202 NMAC do not apply.

Unit Number <sup>1</sup>	Source Description	Manufacturer	Model #	Serial #	Maximum or Rated Capacity <sup>3</sup> (Specify Units)	Requested Permitted Capacity <sup>3</sup> (Specify Units)	Date of Manufacture or Reconstruction <sup>2</sup>	Controlled by Unit #	Source Classification Code (SCC)	For Each Piece of Equipment, Check One	RICE Ignition Type (CI, SI, 4SLB, 4SRB, 2SLB) <sup>4</sup>	Replacing Unit No.
							Date of Installation /Construction <sup>2</sup>	Emissions vented to Stack #				
44	Propane Refrigeration Engine	Caterpillar	G3512B	TBD	1,035 HP	1,035 HP	TBD	R-213	2310022203	<input type="checkbox"/> Existing (unchanged) <input type="checkbox"/> To Be Removed <input checked="" type="checkbox"/> New/Additional <input type="checkbox"/> Replacement Unit <input type="checkbox"/> To Be Modified <input type="checkbox"/> To Be Replaced	4SLB	N/A
							TBD	R-213				
FUG	Process Fugitive Emissions	N/A	N/A	N/A	N/A	N/A	N/A	N/A	31088811	<input type="checkbox"/> Existing (unchanged) <input type="checkbox"/> To Be Removed <input type="checkbox"/> New/Additional <input type="checkbox"/> Replacement Unit <input checked="" type="checkbox"/> To Be Modified <input type="checkbox"/> To Be Replaced	N/A	N/A
							N/A	N/A				
12	Hot Oil Heater	Born Inc.	N/A	2354	11 MMBtu/hr	11 MMBtu/hr	1981	N/A	31000404	<input checked="" type="checkbox"/> Existing (unchanged) <input type="checkbox"/> To Be Removed <input type="checkbox"/> New/Additional <input type="checkbox"/> Replacement Unit <input type="checkbox"/> To Be Modified <input type="checkbox"/> To Be Replaced	N/A	N/A
							1981	12				
13	Mole Sieve Regeneration Heater	Radco	N/A	87197	3.05 MMBtu/hr	3.05 MMBtu/hr	1981	N/A	31000404	<input checked="" type="checkbox"/> Existing (unchanged) <input type="checkbox"/> To Be Removed <input type="checkbox"/> New/Additional <input type="checkbox"/> Replacement Unit <input type="checkbox"/> To Be Modified <input type="checkbox"/> To Be Replaced	N/A	N/A
							1981	13				
14	Mole Sieve Regeneration Heater	Radco	N/A	87196	3.05 MMBtu/hr	3.05 MMBtu/hr	1981	N/A	31000404	<input checked="" type="checkbox"/> Existing (unchanged) <input type="checkbox"/> To Be Removed <input type="checkbox"/> New/Additional <input type="checkbox"/> Replacement Unit <input type="checkbox"/> To Be Modified <input type="checkbox"/> To Be Replaced	N/A	N/A
							1981	14				
17	Acid Gas Flare	Aeron	N/A	N/A	Pilot/Purge 400 scfh; Acid gas 80 Mscfh	Pilot/Purge 400 scfh; Acid gas 80 Mscfh	1980	AGI W	31000216	<input checked="" type="checkbox"/> Existing (unchanged) <input type="checkbox"/> To Be Removed <input type="checkbox"/> New/Additional <input type="checkbox"/> Replacement Unit <input type="checkbox"/> To Be Modified <input type="checkbox"/> To Be Replaced	N/A	N/A
							1980	17				
18	Low Pressure Flare	NFF-CG	Unknown	N/A	700.2 Mscfh	700.2 Mscfh	1980	N/A	31000215	<input checked="" type="checkbox"/> Existing (unchanged) <input type="checkbox"/> To Be Removed <input type="checkbox"/> New/Additional <input type="checkbox"/> Replacement Unit <input type="checkbox"/> To Be Modified <input type="checkbox"/> To Be Replaced	N/A	N/A
							1980	18				
19	High Pressure Flare	NFF-CG	Unknown	N/A	1.2 MMscfh	1.2 MMscfh	1980	N/A	31000215	<input checked="" type="checkbox"/> Existing (unchanged) <input type="checkbox"/> To Be Removed <input type="checkbox"/> New/Additional <input type="checkbox"/> Replacement Unit <input type="checkbox"/> To Be Modified <input type="checkbox"/> To Be Replaced	N/A	N/A
							1980	19				
20	Natural Gas Reciprocating Engine	White Superior	6G825	17970	495 hp	495 hp	~ 1964	C-601	20200253	<input checked="" type="checkbox"/> Existing (unchanged) <input type="checkbox"/> To Be Removed <input type="checkbox"/> New/Additional <input type="checkbox"/> Replacement Unit <input type="checkbox"/> To Be Modified <input type="checkbox"/> To Be Replaced	4SRB	N/A
							2001	C-601				
21	Natural Gas Reciprocating Engine	White Superior	6G825	15727	495 hp	495 hp	~ 1964	C-602	20200253	<input checked="" type="checkbox"/> Existing (unchanged) <input type="checkbox"/> To Be Removed <input type="checkbox"/> New/Additional <input type="checkbox"/> Replacement Unit <input type="checkbox"/> To Be Modified <input type="checkbox"/> To Be Replaced	4SRB	N/A
							2001	C-602				
23	Cryogenic Skid #1	Dickson & Tryer	N/A	N/A	25 MMscf/day	25 MMscf/day	1987	N/A	31088801	<input checked="" type="checkbox"/> Existing (unchanged) <input type="checkbox"/> To Be Removed <input type="checkbox"/> New/Additional <input type="checkbox"/> Replacement Unit <input type="checkbox"/> To Be Modified <input type="checkbox"/> To Be Replaced	N/A	N/A
							1987	23				
24	Cryogenic Skid #2	Armellini Engineering	N/A	N/A	25 MMscf/day	25 MMscf/day	1991	N/A	31088801	<input checked="" type="checkbox"/> Existing (unchanged) <input type="checkbox"/> To Be Removed <input type="checkbox"/> New/Additional <input type="checkbox"/> Replacement Unit <input type="checkbox"/> To Be Modified <input type="checkbox"/> To Be Replaced	N/A	N/A
							1991	24				
25	Electric Driven Inlet Gas Compression	Ariel	JGU-6	F19966	4,500 hp	4,500 hp	2004	N/A	31000309	<input checked="" type="checkbox"/> Existing (unchanged) <input type="checkbox"/> To Be Removed <input type="checkbox"/> New/Additional <input type="checkbox"/> Replacement Unit <input type="checkbox"/> To Be Modified <input type="checkbox"/> To Be Replaced	N/A	N/A
							2005	N/A				
26	Electric Driven Inlet Gas Compression	Ariel	JGU-6	F19967	4,500 hp	4,500 hp	2004	N/A	31000309	<input checked="" type="checkbox"/> Existing (unchanged) <input type="checkbox"/> To Be Removed <input type="checkbox"/> New/Additional <input type="checkbox"/> Replacement Unit <input type="checkbox"/> To Be Modified <input type="checkbox"/> To Be Replaced	N/A	N/A
							2004	N/A				
29	Skimmer Flash Tank	N/A	N/A	N/A	1000 bbl	1000 bbl	1981	N/A	40400311	<input checked="" type="checkbox"/> Existing (unchanged) <input type="checkbox"/> To Be Removed <input type="checkbox"/> New/Additional <input type="checkbox"/> Replacement Unit <input type="checkbox"/> To Be Modified <input type="checkbox"/> To Be Replaced	N/A	N/A
							1981	29				
30	Natural Gas Reciprocating Engine (C-11.20 A)	Caterpillar	G3612 LE	BKE00614	3,550 hp	3,550 hp	7/9/2012	R-210	20200254	<input checked="" type="checkbox"/> Existing (unchanged) <input type="checkbox"/> To Be Removed <input type="checkbox"/> New/Additional <input type="checkbox"/> Replacement Unit <input type="checkbox"/> To Be Modified <input type="checkbox"/> To Be Replaced	4SLB	N/A
							2014	R-210				

Unit Number <sup>1</sup>	Source Description	Manufacturer	Model #	Serial #	Maximum or Rated Capacity <sup>3</sup> (Specify Units)	Requested Permitted Capacity <sup>3</sup> (Specify Units)	Date of Manufacture or Reconstruction <sup>2</sup>		Controlled by Unit #	Source Classification Code (SCC)	For Each Piece of Equipment, Check One	RICE Ignition Type (CI, SI, 4SLB, 4SRB, 2SLB) <sup>4</sup>	Replacing Unit No.
							Date of Installation /Construction <sup>2</sup>	Emissions vented to Stack #					
31	Natural Gas Reciprocating Engine (C-11.20 B)	Caterpillar	G3612 LE	BKE00618	3,550 hp	3,550 hp	7/23/2012	R-211	20200254	<input checked="" type="checkbox"/> Existing (unchanged) <input type="checkbox"/> To be Removed <input type="checkbox"/> New/Additional <input type="checkbox"/> Replacement Unit <input type="checkbox"/> To Be Modified <input type="checkbox"/> To be Replaced	4SLB	N/A	
							2014	R-211					
32	Natural Gas Reciprocating Engine (C-11.21 A)	Caterpillar	G3516B	JEF01437	1,380 hp	1,380 hp	12/7/2011	R-212	20200254	<input checked="" type="checkbox"/> Existing (unchanged) <input type="checkbox"/> To be Removed <input type="checkbox"/> New/Additional <input type="checkbox"/> Replacement Unit <input type="checkbox"/> To Be Modified <input type="checkbox"/> To be Replaced	4SLB	N/A	
							2014	R-212					
33	Natural Gas Reciprocating Engine (C-11.21 B)	Caterpillar	G3516B	JEF01821	1,380 hp	1,380 hp	6/19/2012	In-112	20200254	<input checked="" type="checkbox"/> Existing (unchanged) <input type="checkbox"/> To be Removed <input type="checkbox"/> New/Additional <input type="checkbox"/> Replacement Unit <input type="checkbox"/> To Be Modified <input type="checkbox"/> To be Replaced	4SLB	N/A	
							2014	In-112					
34	Natural Gas Reciprocating Engine (C-11.21 C)	Caterpillar	G3516B	JEF01818	1,380 hp	1,380 hp	6/18/2012	In-111	20200254	<input checked="" type="checkbox"/> Existing (unchanged) <input type="checkbox"/> To be Removed <input type="checkbox"/> New/Additional <input type="checkbox"/> Replacement Unit <input type="checkbox"/> To Be Modified <input type="checkbox"/> To be Replaced	4SLB	N/A	
							2014	In-111					
35	Natural Gas Reciprocating Engine (C-11.21 D)	Caterpillar	G3516B	JEF01797	1,380 hp	1,380 hp	6/11/2012	In-110	20200254	<input checked="" type="checkbox"/> Existing (unchanged) <input type="checkbox"/> To be Removed <input type="checkbox"/> New/Additional <input type="checkbox"/> Replacement Unit <input type="checkbox"/> To Be Modified <input type="checkbox"/> To be Replaced	4SLB	N/A	
							2014	In-110					
37	Amine Heater (HT 25.11)	Volcanic	NA	1400SB.1111 .1542	21.2 MMBtu/hr	21.2 MMBtu/hr	11/28/2011	N/A	31000404	<input checked="" type="checkbox"/> Existing (unchanged) <input type="checkbox"/> To be Removed <input type="checkbox"/> New/Additional <input type="checkbox"/> Replacement Unit <input type="checkbox"/> To Be Modified <input type="checkbox"/> To be Replaced	N/A	N/A	
							2014	37					
39	Cryogenic Skid #3	Various	N/A	N/A	65 MMscf/day	65 MMscf/day	2012	N/A	31088801	<input checked="" type="checkbox"/> Existing (unchanged) <input type="checkbox"/> To be Removed <input type="checkbox"/> New/Additional <input type="checkbox"/> Replacement Unit <input type="checkbox"/> To Be Modified <input type="checkbox"/> To be Replaced	N/A	N/A	
							2013	39					
40	Cryogenic Skid #4	Various	N/A	N/A	35 MMscf/day	35 MMscf/day	2012	N/A	31088801	<input checked="" type="checkbox"/> Existing (unchanged) <input type="checkbox"/> To be Removed <input type="checkbox"/> New/Additional <input type="checkbox"/> Replacement Unit <input type="checkbox"/> To Be Modified <input type="checkbox"/> To be Replaced	N/A	N/A	
							2014	40					
38	Regen Gas Heater	Heatec	N/A	HI11-293	5.5 MMBtu/hr	5.5 MMBtu/hr	May-12	N/A	31000404	<input checked="" type="checkbox"/> Existing (unchanged) <input type="checkbox"/> To be Removed <input type="checkbox"/> New/Additional <input type="checkbox"/> Replacement Unit <input type="checkbox"/> To Be Modified <input type="checkbox"/> To be Replaced	N/A	N/A	
							TBD	38					
41	Regen Gas Heater	Devco	H-770	3899-001	9.35 MMBtu/hr	9.35 MMBtu/hr	12/7/2011	N/A	31000404	<input checked="" type="checkbox"/> Existing (unchanged) <input type="checkbox"/> To be Removed <input type="checkbox"/> New/Additional <input type="checkbox"/> Replacement Unit <input type="checkbox"/> To Be Modified <input type="checkbox"/> To be Replaced	N/A	N/A	
							2014	41					
43	Emergency Flare	TBD	N/A	N/A	500 scfh	500 scfh	TBD	N/A	31000215	<input checked="" type="checkbox"/> Existing (unchanged) <input type="checkbox"/> To be Removed <input type="checkbox"/> New/Additional <input type="checkbox"/> Replacement Unit <input type="checkbox"/> To Be Modified <input type="checkbox"/> To be Replaced	N/A	N/A	
							TBD	43					
AU	Amine Unit (Trains 1 and 2)	N/A	N/A	N/A	65 MMscf/day	65 MMscf/day	~1964	AGI,17	40400311	<input checked="" type="checkbox"/> Existing (unchanged) <input type="checkbox"/> To be Removed <input type="checkbox"/> New/Additional <input type="checkbox"/> Replacement Unit <input type="checkbox"/> To Be Modified <input type="checkbox"/> To be Replaced	N/A	N/A	
							~ 1964	AGI,17					
AU T3	Amine Unit (Train 3)	Exterran	N/A	BK-STK2-54	65 MMscf/day	65 MMscf/day	2013	AGI,17	40400311	<input checked="" type="checkbox"/> Existing (unchanged) <input type="checkbox"/> To be Removed <input type="checkbox"/> New/Additional <input type="checkbox"/> Replacement Unit <input type="checkbox"/> To Be Modified <input type="checkbox"/> To be Replaced	N/A	N/A	
							2014	AGI,17					
AU T4	Amine Unit (Train 4)	AmeriFab	N/A	DB292 (contactor)	35 MMscf/day	35 MMscf/day	2014	AGI,17	40400311	<input checked="" type="checkbox"/> Existing (unchanged) <input type="checkbox"/> To be Removed <input type="checkbox"/> New/Additional <input type="checkbox"/> Replacement Unit <input type="checkbox"/> To Be Modified <input type="checkbox"/> To be Replaced	N/A	N/A	
							2014	AGI,17					
Load	Hose disconnect, pressurized load out	N/A	N/A	N/A	N/A	N/A	N/A	N/A	40400250	<input checked="" type="checkbox"/> Existing (unchanged) <input type="checkbox"/> To be Removed <input type="checkbox"/> New/Additional <input type="checkbox"/> Replacement Unit <input type="checkbox"/> To Be Modified <input type="checkbox"/> To be Replaced	N/A	N/A	
							N/A	N/A					

<sup>1</sup> Unit numbers must correspond to unit numbers in the previous permit unless a complete cross reference table of all units in both permits is provided.

<sup>2</sup> Specify dates required to determine regulatory applicability.

<sup>3</sup> To properly account for power conversion efficiencies, generator set rated capacity shall be reported as the rated capacity of the engine in horsepower, not the kilowatt capacity of the generator set.

**Table 2-C: Emissions Control Equipment**

Unit and stack numbering must correspond throughout the application package. Only list control equipment for TAPs if the TAP’s maximum uncontrolled emissions rate is over its respective threshold as listed in 20.2.72 NMAC, Subpart V, Tables A and B. In accordance with 20.2.72.203.A(3) and (8) NMAC, 20.2.70.300.D(5)(b) and (e) NMAC, and 20.2.73.200.B(7) NMAC, the permittee shall report all control devices and list each pollutant controlled by the control device regardless if the applicant takes credit for the reduction in emissions.

Control Equipment Unit No.	Control Equipment Description	Date Installed	Controlled Pollutant(s)	Controlling Emissions for Unit Number(s) <sup>1</sup>	Efficiency (% Control by Weight)	Method used to Estimate Efficiency
44	Catalytic Oxidation	2020	CO, VOC, HCHO	44	80% CO, 75% VOC, 75% HCHO	Mfg. Data

<sup>1</sup> List each control device on a separate line. For each control device, list all emission units controlled by the control device.

**Table 2-D: Maximum Emissions** (under normal operating conditions)

☐ **This Table was intentionally left blank because it would be identical to Table 2-E.**

Maximum Emissions are the emissions at maximum capacity and prior to (in the absence of) pollution control, emission-reducing process equipment, or any other emission reduction. Calculate the hourly emissions using the worst case hourly emissions for each pollutant. For each pollutant, calculate the annual emissions as if the facility were operating at maximum plant capacity without pollution controls for 8760 hours per year, unless otherwise approved by the Department. List Hazardous Air Pollutants (HAP) & Toxic Air Pollutants (TAPs) in Table 2-I. Unit & stack numbering must be consistent throughout the application package. Fill all cells in this table with the emission numbers or a "-" symbol. A "--" symbol indicates that emissions of this pollutant are not expected. Numbers shall be expressed to at least 2 decimal points (e.g. 0.41, 1.41, or 1.41E-4).

Unit No.	NOx		CO		VOC		SOx		PM <sup>1</sup>		PM10 <sup>1</sup>		PM2.5 <sup>1</sup>		H <sub>2</sub> S		Lead	
	lb/hr	ton/yr	lb/hr	ton/yr	lb/hr	ton/yr	lb/hr	ton/yr	lb/hr	ton/yr	lb/hr	ton/yr	lb/hr	ton/yr	lb/hr	ton/yr	lb/hr	ton/yr
12	1.1	4.7	0.9	4.0	0.1	0.3	0.2	0.7	0.1	0.4	0.1	0.4	0.1	0.4	-	-	-	-
13	0.3	1.3	0.3	1.1	1.64E-02	0.1	4.37E-02	0.2	2.27E-02	0.1	2.27E-02	0.1	2.27E-02	0.1	-	-	-	-
14	0.3	1.3	0.3	1.1	1.64E-02	0.1	4.37E-02	0.2	2.27E-02	0.1	2.27E-02	0.1	2.27E-02	0.1	-	-	-	-
17*	0.1	0.5	0.2	1.0	-	-	5.74E-03	2.51E-02	-	-	-	-	-	-	5.71E-06	2.50E-05	-	-
18*	0.1	0.2	0.1	0.5	-	-	2.87E-03	1.26E-02	-	-	-	-	-	-	2.86E-06	1.25E-05	-	-
19*	0.1	0.2	0.1	0.5	-	-	2.87E-03	1.26E-02	-	-	-	-	-	-	2.86E-06	1.25E-05	-	-
20	16.4	71.7	3.3	14.3	1.1	4.8	0.1	0.3	4.05E-02	0.2	4.05E-02	0.2	4.05E-02	0.2	-	-	-	-
21	16.4	71.7	3.3	14.3	1.1	4.8	0.1	0.3	4.05E-02	0.2	4.05E-02	0.2	4.05E-02	0.2	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
23	-	-	-	-	0.9	3.8	-	-	-	-	-	-	-	-	-	-	-	-
24	-	-	-	-	0.9	3.8	-	-	-	-	-	-	-	-	-	-	-	-
25	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
26	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
29	-	-	-	-	0.3	1.2	-	-	-	-	-	-	-	-	-	-	-	-
30	5.5	24.0	19.6	85.7	6.8	29.8	0.4	1.7	0.3	1.2	0.3	1.2	0.3	1.2	-	-	-	-
31	5.5	24.0	19.6	85.7	6.8	29.8	0.4	1.7	0.3	1.2	0.3	1.2	0.3	1.2	-	-	-	-
32	3.0	13.3	8.5	37.3	2.4	10.4	0.2	0.7	0.1	0.5	0.1	0.5	0.1	0.5	-	-	-	-
33	3.0	13.3	8.5	37.3	2.4	10.4	0.2	0.7	0.1	0.5	0.1	0.5	0.1	0.5	-	-	-	-
34	3.0	13.3	8.5	37.3	2.4	10.4	0.2	0.7	0.1	0.5	0.1	0.5	0.1	0.5	-	-	-	-
35	3.0	13.3	8.5	37.3	2.4	10.4	0.2	0.7	0.1	0.5	0.1	0.5	0.1	0.5	-	-	-	-
37	2.1	9.3	2.7	11.6	6.15E-04	2.69E-03	0.3	1.3	0.2	0.7	0.2	0.7	0.2	0.7	-	-	-	-
39	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
40	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
38	0.6	2.4	0.7	3.0	1.59E-04	6.99E-04	3.94E-02	0.2	4.10E-02	0.2	4.10E-02	0.2	4.10E-02	0.2	-	-	-	-
41	0.9	4.1	1.2	5.1	2.71E-04	1.19E-03	0.1	0.3	0.1	0.3	0.1	0.3	0.1	0.3	-	-	-	-
43	0.1	0.6	0.3	1.2	-	-	7.17E-03	3.14E-02	-	-	-	-	-	-	-	-	-	-
AU**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	993.3	4350.5	-	-
AU T3, T4**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Load	-	-	-	-	6.45E-03	2.82E-02	-	-	-	-	-	-	-	-	-	-	-	-
FUG	-	-	-	-	13.6	59.7	-	-	-	-	-	-	-	-	0.1	0.5	-	-
44	1.1	5.0	5.1	22.4	1.1	4.9	0.1	0.5	0.1	0.4	0.1	0.4	0.1	0.4	-	-	-	-
SSM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-	-
<b>Totals</b>	<b>61.3</b>	<b>268.3</b>	<b>90.3</b>	<b>395.7</b>	<b>42.1</b>	<b>184.3</b>	<b>2.1</b>	<b>9.2</b>	<b>1.4</b>	<b>6.2</b>	<b>1.4</b>	<b>6.2</b>	<b>1.4</b>	<b>6.2</b>	<b>993.4</b>	<b>4351.1</b>	<b>0.00</b>	<b>0.00</b>

<sup>1</sup>Condensable Particulate Matter: Include condensable particulate matter emissions for PM10 and PM2.5 if the source is a combustion source. Do not include condensable particulate matter for PM unless PM is set equal to PM10 and PM2.5. Particulate matter (PM) is not subject to an ambient air quality standard, but PM is a regulated air pollutant under PSD (20.2.74 NMAC) and Title V (20.2.70 NMAC).

**Table 2-E: Requested Allowable Emissions**

Unit & stack numbering must be consistent throughout the application package. Fill all cells in this table with the emission numbers or a "-" symbol. A "--" symbol indicates that emissions of this pollutant are not expected. Numbers shall be expressed to at least 2 decimal points (e.g. 0.41, 1.41, or 1.41E<sup>-4</sup>).

Unit No.	NOx		CO		VOC		SOx		PM <sup>1</sup>		PM10 <sup>1</sup>		PM2.5 <sup>1</sup>		H <sub>2</sub> S		Lead	
	lb/hr	ton/yr	lb/hr	ton/yr	lb/hr	ton/yr	lb/hr	ton/yr	lb/hr	ton/yr	lb/hr	ton/yr	lb/hr	ton/yr	lb/hr	ton/yr	lb/hr	ton/yr
12	1.1	4.7	0.9	4.0	0.1	0.3	0.2	0.7	0.1	0.4	0.1	0.4	0.1	0.4	-	-	-	-
13	0.3	1.3	0.3	1.1	1.64E-02	0.1	4.37E-02	0.2	2.27E-02	0.1	2.27E-02	0.1	2.27E-02	0.1	-	-	-	-
14	0.3	1.3	0.3	1.1	1.64E-02	0.1	4.37E-02	0.2	2.27E-02	0.1	2.27E-02	0.1	2.27E-02	0.1	-	-	-	-
17 (Pilot)	0.1	0.5	0.2	1.0	-	-	5.74E-03	2.51E-02	-	-	-	-	-	-	5.71E-06	2.50E-05	-	-
18 (Pilot)	0.1	0.2	0.1	0.5	-	-	2.87E-03	1.26E-02	-	-	-	-	-	-	2.86E-06	1.25E-05	-	-
19 (Pilot)	0.1	0.2	0.1	0.5	-	-	2.87E-03	1.26E-02	-	-	-	-	-	-	2.86E-06	1.25E-05	-	-
20	2.2	9.6	3.3	14.3	1.1	4.8	0.1	0.3	4.05E-02	0.2	4.05E-02	0.2	4.05E-02	0.2	-	-	-	-
21	2.2	9.6	3.3	14.3	1.1	4.8	0.1	0.3	4.05E-02	0.2	4.05E-02	0.2	4.05E-02	0.2	-	-	-	-
23	-	-	-	-	0.9	3.8	-	-	-	-	-	-	-	-	-	-	-	-
24	-	-	-	-	0.9	3.8	-	-	-	-	-	-	-	-	-	-	-	-
25	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
26	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
29	-	-	-	-	0.3	1.2	-	-	-	-	-	-	-	-	-	-	-	-
30	5.5	24.0	2.0	8.6	2.4	10.4	0.4	1.7	0.3	1.2	0.3	1.2	0.3	1.2	-	-	-	-
31	5.5	24.0	2.0	8.6	2.4	10.4	0.4	1.7	0.3	1.2	0.3	1.2	0.3	1.2	-	-	-	-
32	3.0	13.3	0.9	3.7	0.8	3.6	0.2	0.7	0.1	0.5	0.1	0.5	0.1	0.5	-	-	-	-
33	3.0	13.3	0.9	3.7	0.8	3.6	0.2	0.7	0.1	0.5	0.1	0.5	0.1	0.5	-	-	-	-
34	3.0	13.3	0.9	3.7	0.8	3.6	0.2	0.7	0.1	0.5	0.1	0.5	0.1	0.5	-	-	-	-
35	3.0	13.3	0.9	3.7	0.8	3.6	0.2	0.7	0.1	0.5	0.1	0.5	0.1	0.5	-	-	-	-
37	2.1	9.3	2.7	11.6	6.15E-04	2.69E-03	0.3	1.3	0.2	0.7	0.2	0.7	0.2	0.7	-	-	-	-
38	0.6	2.4	0.7	3.0	1.59E-04	6.99E-04	0.0	0.2	4.10E-02	0.2	4.10E-02	0.2	4.10E-02	0.2	-	-	-	-
39	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
LOAD	-	-	-	-	6.45E-03	2.82E-02	-	-	-	-	-	-	-	-	-	-	-	-
41	0.9	4.1	1.2	5.1	2.71E-04	1.19E-03	0.1	0.3	0.1	0.3	0.1	0.3	0.1	0.3	-	-	-	-
AU	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
AU T3, T4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FUG*	-	-	-	-	13.6	59.7	-	-	-	-	-	-	-	-	0.1	0.5	-	-
43	0.1	0.6	0.3	1.2	-	-	7.17E-03	3.14E-02	-	-	-	-	-	-	7.14E-06	3.13E-05	-	-
44	1.1	5.0	1.0	4.5	0.3	1.2	0.1	0.5	0.1	0.4	0.1	0.4	0.1	0.4	-	-	-	-
SSM	570.9	29.7	1438.6	60.8	682.1	31.4	3316.7	239.7	-	-	-	-	-	-	35.2	7.4	-	-
<b>Totals</b>	<b>605.2</b>	<b>179.8</b>	<b>1460.1</b>	<b>155.0</b>	<b>708.4</b>	<b>146.6</b>	<b>3319.0</b>	<b>249.8</b>	<b>1.5</b>	<b>6.7</b>	<b>1.5</b>	<b>6.7</b>	<b>1.5</b>	<b>6.7</b>	<b>35.4</b>	<b>8.0</b>	<b>0.00</b>	<b>0.00</b>

<sup>1</sup> **Condensable Particulate Matter:** Include condensable particulate matter emissions for PM10 and PM2.5 if the source is a combustion source. Do not include condensable particulate matter for PM unless PM is set equal to PM10 and PM2.5. Particulate matter (PM) is not subject to an ambient air quality standard, but it is a regulated air pollutant under PSD (20.2.74 NMAC) and Title V (20.2.70 NMAC).

**Table 2-G: Stack Exit and Fugitive Emission Rates for Special Stacks**

X I have elected to leave this table blank because this facility does not have any stacks/vents that split emissions from a single source or combine emissions from more than one source listed in table 2-A. Additionally, the emission rates of all stacks match the Requested allowable emission rates stated in Table 2-E.

Use this table to list stack emissions (requested allowable) from split and combined stacks. List Toxic Air Pollutants (TAPs) and Hazardous Air Pollutants (HAPs) in Table 2-I. List all fugitives that are associated with the normal, routine, and non-emergency operation of the facility. Unit and stack numbering must correspond throughout the application package. Refer to Table 2-E for instructions on use of the “-“ symbol and on significant figures.

Stack No.	Serving Unit Number(s) from Table 2-A	NOx		CO		VOC		SOx		PM		PM10		PM2.5		<input type="checkbox"/> H <sub>2</sub> S or <input type="checkbox"/> Lead	
		lb/hr	ton/yr	lb/hr	ton/yr	lb/hr	ton/yr	lb/hr	ton/yr	lb/hr	ton/yr	lb/hr	ton/yr	lb/hr	ton/yr	lb/hr	ton/yr
<b>Totals:</b>																	

**Table 2-H: Stack Exit Conditions**

Unit and stack numbering must correspond throughout the application package. Include the stack exit conditions for each unit that emits from a stack, including blowdown venting parameters and tank emissions. If the facility has multiple operating scenarios, complete a separate Table 2-H for each scenario and, for each, type scenario name here:

Stack Number	Serving Unit Number(s) from Table 2-A	Orientation (H=Horizontal V=Vertical)	Height Above Ground (ft)	Temp. (F)	Flow Rate		Moisture by Volume (%)	Velocity (ft/sec)	Inside Diameter (ft)
					(acfs)	(dscfs)			
44	44	V	22.7	523.89	112	-	-	143	1.00

**Table 2-I: Stack Exit and Fugitive Emission Rates for HAPs and TAPs**

In the table below, report the Potential to Emit for each HAP from each regulated emission unit listed in Table 2-A, only if the entire facility emits the HAP at a rate greater than or equal to one (1) ton per year. For each such emission unit, HAPs shall be reported to the nearest 0.1 tpy. Each facility-wide Individual HAP total and the facility-wide Total HAPs shall be the sum of all HAP sources calculated to the nearest 0.1 ton per year. Per 20.2.72.403.A.1 NMAC, facilities not exempt [see 20.2.72.402.C NMAC] from TAP permitting shall report each TAP that has an uncontrolled emission rate in excess of its pounds per hour screening level specified in 20.2.72.502 NMAC. TAPs shall be reported using one more significant figure than the number of significant figures shown in the pound per hour threshold corresponding to the substance. Use the HAP nomenclature as it appears in Section 112 (b) of the 1990 CAAA and the TAP nomenclature as it listed in 20.2.72.502 NMAC. Include tank-flashing emissions estimates of HAPs in this table. For each HAP or TAP listed, fill all cells in this table with the emission numbers or a "-" symbol. A "-" symbol indicates that emissions of this pollutant are not expected or the pollutant is emitted in a quantity less than the threshold amounts described above.

Stack No.	Unit No.(s)	Total HAPs		Formaldehyde X HAP or <input type="checkbox"/> TAP		Acetaldehyde X HAP or <input type="checkbox"/> TAP		Acrolein X HAP or <input type="checkbox"/> TAP		n-Hexane X HAP or <input type="checkbox"/> TAP		Provide Pollutant Name Here <input type="checkbox"/> HAP or <input type="checkbox"/> TAP		Provide Pollutant Name Here <input type="checkbox"/> HAP or <input type="checkbox"/> TAP		Provide Pollutant Name Here <input type="checkbox"/> HAP or <input type="checkbox"/> TAP		Provide Pollutant Name Here <input type="checkbox"/> HAP or <input type="checkbox"/> TAP	
		lb/hr	ton/yr	lb/hr	ton/yr	lb/hr	ton/yr	lb/hr	ton/yr	lb/hr	ton/yr	lb/hr	ton/yr	lb/hr	ton/yr	lb/hr	ton/yr	lb/hr	ton/yr
12	12	1.74E-02	0.1	9.29E-03	4.07E-02	8.11E-03	3.55E-02	-	-	-	-								
13	13	4.84E-03	2.12E-02	2.58E-03	1.13E-02	2.26E-03	9.90E-03	-	-	-	-								
14	14	4.84E-03	2.12E-02	2.58E-03	1.13E-02	2.26E-03	9.90E-03	-	-	-	-								
17	17	-	-	-	-	-	-	-	-	-	-								
18	18	-	-	-	-	-	-	-	-	-	-								
19	19	-	-	-	-	-	-	-	-	-	-								
20	20**	0.1	0.5	0.1	0.4	1.00E-02	4.40E-02	9.47E-03	4.15E-02	-	-								
21	21**	0.1	0.5	0.1	0.4	1.00E-02	4.40E-02	9.47E-03	4.15E-02	-	-								
22	22	-	-	-	-	-	-	-	-	-	-								
23	23	-	-	-	-	-	-	-	-	-	-								
24	24	-	-	-	-	-	-	-	-	-	-								
25	25	-	-	-	-	-	-	-	-	-	-								
26	26	-	-	-	-	-	-	-	-	-	-								
29	29	-	-	-	-	-	-	-	-	-	-								
30	30**	0.6	2.5	0.2	0.9	0.2	1.0	0.1	0.6	-	-								
31	31**	0.6	2.5	0.2	0.9	0.2	1.0	0.1	0.6	-	-								
32	32**	0.3	1.2	0.1	0.5	0.1	0.4	0.1	0.2	-	-								
33	33**	0.3	1.2	0.1	0.5	0.1	0.4	0.1	0.2	-	-								
34	34**	0.3	1.2	0.1	0.5	0.1	0.4	0.1	0.2	-	-								
35	35**	0.3	1.2	0.1	0.5	0.1	0.4	0.1	0.2	-	-								
37	37	2.32E-02	0.1	1.24E-02	0.1	1.08E-02	4.75E-02	-	-	-	-								
38	38	8.70E-03	3.81E-02	4.63E-03	2.03E-02	4.06E-03	1.78E-02	-	-	-	-								
39	39	-	-	-	-	-	-	-	-	-	-								
40	40	-	-	-	-	-	-	-	-	-	-								
41	41	-	-	-	-	-	-	-	-	-	-								
43	43	-	-	-	-	-	-	-	-	-	-								
AU	AU	-	-	-	-	-	-	-	-	-	-								
AU T3,T4	AU T3,T4	-	-	-	-	-	-	-	-	-	-								
FUG	FUG	1.00E-02	0.1	-	-	-	-	-	-	1.00E-02	0.1								
44	44	0.4	1.8	0.3	1.3	0.1	0.3	4.00E-02	0.2	-	-								
<b>Totals:</b>		2.9	12.7	1.4	6.1	0.9	4.1	0.6	2.5	1.00E-02	0.1								



### Table 2-J: Fuel

Specify fuel characteristics and usage. Unit and stack numbering must correspond throughout the application package.

Unit No.	Fuel Type (low sulfur Diesel, ultra low sulfur diesel, Natural Gas, Coal, ...)	Fuel Source: purchased commercial, pipeline quality natural gas, residue gas, raw/field natural gas, process gas (e.g. SRU tail gas) or other	Specify Units			
			Hourly Usage	Annual Usage	% Sulfur	% Ash
44	Natural Gas	Purchased Fuel Gas	8.5 Mscf/hr	74.49 MMscf/yr	-	-

### Table 2-P: Green House Gas Emissions

Applications submitted under 20.2.70, 20.2.72, & 20.2.74 NMAC are required to complete this Table. Power plants, Title V major sources, and PSD major sources must report and calculate all GHG emissions for each unit. Applicants must report potential emission rates in short tons per year (see Section 6.a for assistance). Include GHG emissions during Startup, Shutdown, and Scheduled Maintenance in this table. For minor source facilities that are not power plants, are not Title V, or are not PSD, there are three options for reporting GHGs 1) report GHGs for each individual piece of equipment; 2) report all GHGs from a group of unit types, for example report all combustion source GHGs as a single unit and all venting GHG as a second separate unit; OR 3) check the following box  By checking this box, the applicant acknowledges the total CO<sub>2</sub>e emissions are less than 75,000 tons per year.

Unit No.	GWPs <sup>1</sup>	CO <sub>2</sub> ton/yr	N <sub>2</sub> O ton/yr	CH <sub>4</sub> ton/yr	SF <sub>6</sub> ton/yr	PFC/HFC ton/yr <sup>2</sup>									Total GHG Mass Basis ton/yr <sup>4</sup>	Total CO <sub>2</sub> e ton/yr <sup>5</sup>
		1	298	25	22,800	footnote 3										
44	mass GHG	4,339.35	0.01	0.09	-	-									4,339.45	-
	CO <sub>2</sub> e	4,339.35	2.98	2.25	-	-									-	4,344.17
FUG	mass GHG	19989.36	-	1.78	-	-									19991.14	-
	CO <sub>2</sub> e	19989.36	-	44.5	-	-									-	20033.86
13	mass GHG	1,562	0.003	0.03											1561.82	-
	CO <sub>2</sub> e	1,562	0.88	0.74											-	1563.40
14	mass GHG	1,562	0.003	0.029											1561.82	-
	CO <sub>2</sub> e	1,562	0.88	0.74											-	1563.40
17	mass GHG	1,645	3.35E-06	1.93											1646.90	-
	CO <sub>2</sub> e	1,645	0.001	48.29											-	1693.26
18	mass GHG	5,484	9.33E-05	22.56											5506.22	-
	CO <sub>2</sub> e	5,484	0.03	563.99											-	6047.67
19	mass GHG	9,754	1.81E-03	53.71											9808.01	-
	CO <sub>2</sub> e	9,754	0.54	1342.76											-	11097.61
20	mass GHG	2,091	0.004	0.04											2091.18	-
	CO <sub>2</sub> e	2,091	0.10	0.99											-	2092.22
21	mass GHG	2,091	0.004	0.04											2091.18	-
	CO <sub>2</sub> e	2,091	0.10	0.99											-	2092.22
22	mass GHG	-	-	-											0.00	-
	CO <sub>2</sub> e	-	-	-											-	0.00
23	mass GHG	-	-	-											0.00	-
	CO <sub>2</sub> e	-	-	-											-	0.00
24	mass GHG	-	-	-											0.00	-
	CO <sub>2</sub> e	-	-	-											-	0.00
25	mass GHG	-	-	-											0.00	-
	CO <sub>2</sub> e	-	-	-											-	0.00
26	mass GHG	-	-	-											0.00	-
	CO <sub>2</sub> e	-	-	-											-	0.00
29	mass GHG	-	-	-											0.00	-
	CO <sub>2</sub> e	-	-	-											-	0.00
30	mass GHG	15,049	2.57E-02	179											15227.62	-
	CO <sub>2</sub> e	15,049	7.66	4474											-	19529.83
31	mass GHG	15,049	2.57E-02	179											15227.62	-
	CO <sub>2</sub> e	15,049	7.66	4474											-	19529.83
32	mass GHG	6,143	1.06E-02	43											6185.71	-
	CO <sub>2</sub> e	6,143	3.17	1066											-	7212.27

		CO <sub>2</sub> ton/yr	N <sub>2</sub> O ton/yr	CH <sub>4</sub> ton/yr	SF <sub>6</sub> ton/yr	PFC/HFC ton/yr <sup>2</sup>									Total GHG Mass Basis ton/yr <sup>4</sup>	Total CO <sub>2</sub> e ton/yr <sup>5</sup>
33	mass GHG	6,143	1.06E-02	43											6185.71	-
	CO <sub>2</sub> e	6,143	3.17	1066											-	7212.27
34	mass GHG	6,143	1.06E-02	43											6185.71	-
	CO <sub>2</sub> e	6,143	3.17	1066											-	7212.27
35	mass GHG	6,143	1.06E-02	43											6185.71	-
	CO <sub>2</sub> e	6,143	3.17	1066											-	7212.27
37	mass GHG	10,757	2.05E-02	0.50											10757.88	-
	CO <sub>2</sub> e	10,757	6.10	12.4											-	10775.85
39, 40	mass GHG	-	-	-											0.00	-
	CO <sub>2</sub> e	-	-	-											-	0.00
38	mass GHG	2,791	0.005	0.18											2791.01	-
	CO <sub>2</sub> e	2,791	1.58	4											-	2796.84
41	mass GHG	4,744	0.009	0.30											4744.72	-
	CO <sub>2</sub> e	4,744	2.69	8											-	4754.63
43	mass GHG	261	4.81E-04	1.76											263.22	-
	CO <sub>2</sub> e	261	1.43E-01	44											-	305.64
AU	mass GHG	-	-	-											0.00	-
	CO <sub>2</sub> e	-	-	-											-	0.00
AU T3,T4	mass GHG	-	-	-											0.00	-
	CO <sub>2</sub> e	-	-	-											-	0.00
FUG	mass GHG	19989	-	-											19989.33	-
	CO <sub>2</sub> e	19989	-	-											-	19989.33
Total	mass GHG	141,730	0.15	611											142341.96	-
	CO <sub>2</sub> e	141,730	44	15,285											-	157059.24

<sup>1</sup> GWP (Global Warming Potential): Applicants must use the most current GWPs codified in Table A-1 of 40 CFR part 98. GWPs are subject to change, therefore, applicants need to check 40 CFR 98 to confirm GWP values.

<sup>2</sup> For HFCs or PFCs describe the specific HFC or PFC compound and use a separate column for each individual compound.

<sup>3</sup> For each new compound, enter the appropriate GWP for each HFC or PFC compound from Table A-1 in 40 CFR 98.

<sup>4</sup> Green house gas emissions on a mass basis is the ton per year green house gas emission before adjustment with its GWP.

<sup>5</sup> CO<sub>2</sub>e means Carbon Dioxide Equivalent and is calculated by multiplying the TPY mass emissions of the green house gas by its GWP.

# Section 3

## Application Summary

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The **Application Summary** shall include a brief description of the facility and its process, the type of permit application, the applicable regulation (i.e. 20.2.72.200.A.X, or 20.2.73 NMAC) under which the application is being submitted, and any air quality permit numbers associated with this site. If this facility is to be collocated with another facility, provide details of the other facility including permit number(s). In case of a revision or modification to a facility, provide the lowest level regulatory citation (i.e. 20.2.72.219.B.1.d NMAC) under which the revision or modification is being requested. Also describe the proposed changes from the original permit, how the proposed modification will affect the facility's operations and emissions, de-bottlenecking impacts, and changes to the facility's major/minor status (both PSD & Title V).

The **Process Summary** shall include a brief description of the facility and its processes.

**Startup, Shutdown, and Maintenance (SSM) routine or predictable emissions:** Provide an overview of how SSM emissions are accounted for in this application. Refer to "Guidance for Submittal of Startup, Shutdown, Maintenance Emissions in Permit Applications ([http://www.env.nm.gov/aqb/permit/app\\_form.html](http://www.env.nm.gov/aqb/permit/app_form.html)) for more detailed instructions on SSM emissions.

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Frontier Field Services, LLC ("Frontier") is submitting an application for a significant revision to NSR Permit No. 319-M11-R1 for the Maljamar Gas Plant ("the Facility"). The Facility is currently permitted to operate under NSR Permit No. 319-M11-R1 and Operating Permit No. P123-R3. The Facility is a cryogenic natural gas processing plant that recovers natural gas liquids from inlet natural gas and sweetens sour natural gas. The Facility is located approximately three (3) miles south of Maljamar in Lea County, New Mexico.

This application proposes the following actions:

- Authorize the use of one (1) new natural gas-fired four (4)-stroke lean-burn engines, described as the Propane Refrigeration Engine (Unit Number: 44);
- Authorize a new amine contactor; and
- Modify existing process fugitive emissions (Unit Number: FUG) to account for new fugitive components associated with the project.

As requested by the New Mexico Environmental Department ("NMED"), Frontier is submitting this significant revision as defined in 20.2.72.219.D.1 NMAC, to authorize this update.

# Section 4

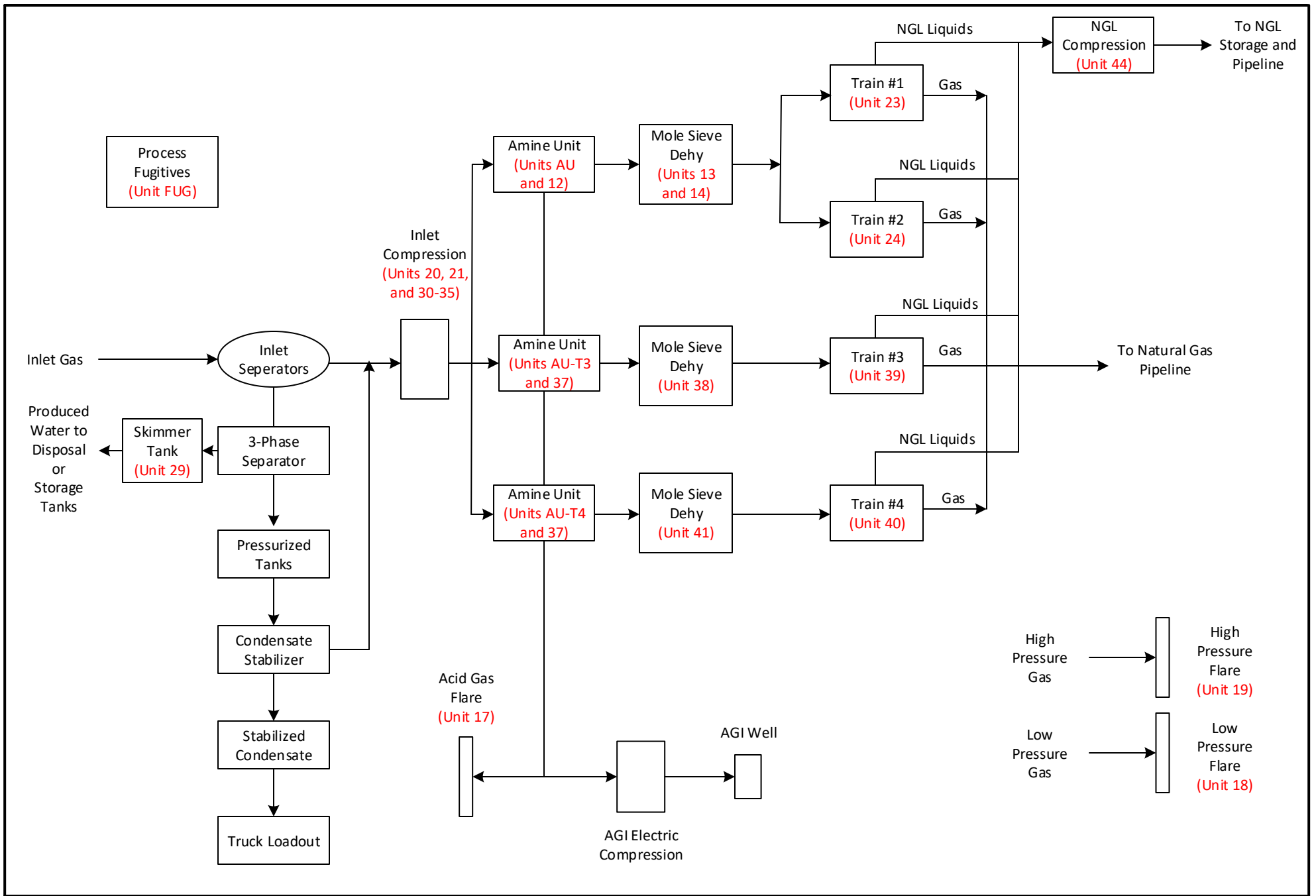
## Process Flow Sheet

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A **process flow sheet** and/or block diagram indicating the individual equipment, all emission points and types of control applied to those points. The unit numbering system should be consistent throughout this application.

---

The process flow sheet has been attached.



**Frontier Field Services, LLC**

Drawn by: RL	Date: 02/04/2020	Scale: Drawing Not to Scale	<b>Maljamar Gas Plant – Plant Overview Process Flow Diagram</b> Significant Revision Application   New Mexico	
Checked by: WSH	Date: 02/04/2020			

# Section 5

## Plot Plan Drawn To Scale

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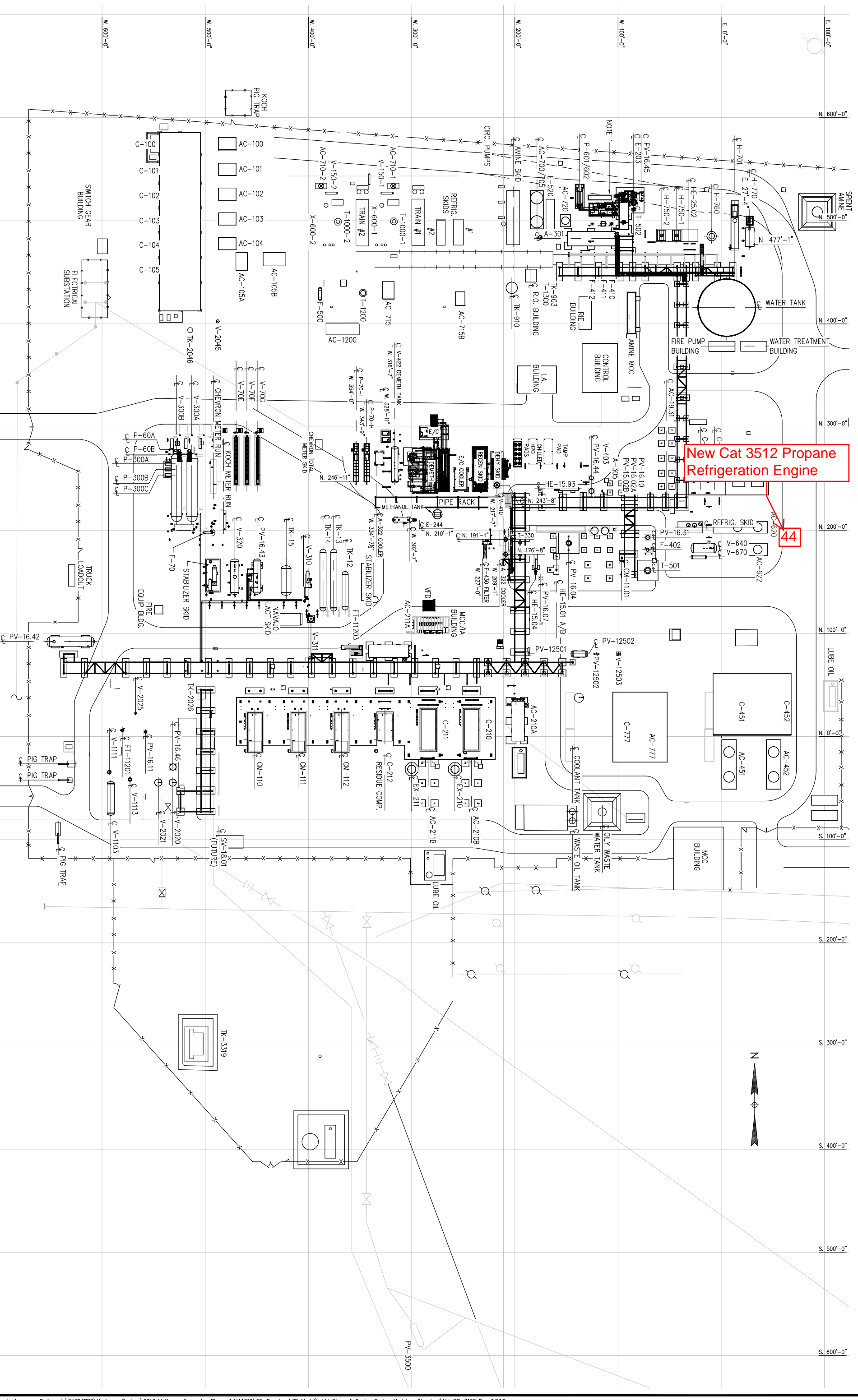
A **plot plan drawn to scale** showing emissions points, roads, structures, tanks, and fences of property owned, leased, or under direct control of the applicant. This plot plan must clearly designate the restricted area as defined in UA1, Section 1-D.12. The unit numbering system should be consistent throughout this application.

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The plot plan has been attached.

New Cat 3512 Propane Refrigeration Engine

44



NOTES:

REV	BY	DATE	REVISION

CHECKED	APPROV	DATE	REV	BY	DATE	REVISION

**AKA**  
energy group, llc  
southern life region llc

AKA ENERGY GROUP, LLC  
MALJAMAR GAS PLANT  
PLOT PLAN

Scale: 1"=40'  
Drawing No: SPS  
Date Issued: 12/08/13  
Project No: MJ-PP-3100



# Section 6

## All Calculations

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**Show all calculations** used to determine both the hourly and annual controlled and uncontrolled emission rates. All calculations shall be performed keeping a minimum of three significant figures. Document the source of each emission factor used (if an emission rate is carried forward and not revised, then a statement to that effect is required). If identical units are being permitted and will be subject to the same operating conditions, submit calculations for only one unit and a note specifying what other units to which the calculations apply. All formulas and calculations used to calculate emissions must be submitted. The "Calculations" tab in the UA2 has been provided to allow calculations to be linked to the emissions tables. Add additional "Calc" tabs as needed. If the UA2 or other spread sheets are used, all calculation spread sheet(s) shall be submitted electronically in Microsoft Excel compatible format so that formulas and input values can be checked. Format all spread sheets and calculations such that the reviewer can follow the logic and verify the input values. Define all variables. If calculation spread sheets are not used, provide the original formulas with defined variables. Additionally, provide subsequent formulas showing the input values for each variable in the formula. All calculations, including those calculations are imbedded in the Calc tab of the UA2 portion of the application, the printed Calc tab(s), should be submitted under this section.

**Tank Flashing Calculations:** The information provided to the AQB shall include a discussion of the method used to estimate tank-flashing emissions, relative thresholds (i.e., NOI, permit, or major source (NSPS, PSD or Title V)), accuracy of the model, the input and output from simulation models and software, all calculations, documentation of any assumptions used, descriptions of sampling methods and conditions, copies of any lab sample analysis. If Hysis is used, all relevant input parameters shall be reported, including separator pressure, gas throughput, and all other relevant parameters necessary for flashing calculation.

**SSM Calculations:** It is the applicant's responsibility to provide an estimate of SSM emissions or to provide justification for not doing so. In this Section, provide emissions calculations for Startup, Shutdown, and Routine Maintenance (SSM) emissions listed in the Section 2 SSM and/or Section 22 GHG Tables and the rationale for why the others are reported as zero (or left blank in the SSM/GHG Tables). Refer to "Guidance for Submittal of Startup, Shutdown, Maintenance Emissions in Permit Applications ([http://www.env.nm.gov/aqb/permit/app\\_form.html](http://www.env.nm.gov/aqb/permit/app_form.html)) for more detailed instructions on calculating SSM emissions. If SSM emissions are greater than those reported in the Section 2, Requested Allowables Table, modeling may be required to ensure compliance with the standards whether the application is NSR or Title V. Refer to the Modeling Section of this application for more guidance on modeling requirements.

**Glycol Dehydrator Calculations:** The information provided to the AQB shall include the manufacturer's maximum design recirculation rate for the glycol pump. If GRI-Glycalc is used, the full input summary report shall be included as well as a copy of the gas analysis that was used.

**Road Calculations:** Calculate fugitive particulate emissions and enter haul road fugitives in Tables 2-A, 2-D and 2-E for:

1. If you transport raw material, process material and/or product into or out of or within the facility and have PER emissions greater than 0.5 tpy.
2. If you transport raw material, process material and/or product into or out of the facility more frequently than one round trip per day.

### Significant Figures:

**A.** All emissions standards are deemed to have at least two significant figures, but not more than three significant figures.

**B.** At least 5 significant figures shall be retained in all intermediate calculations.

**C.** In calculating emissions to determine compliance with an emission standard, the following rounding off procedures shall be used:

- (1) If the first digit to be discarded is less than the number 5, the last digit retained shall not be changed;
- (2) If the first digit discarded is greater than the number 5, or if it is the number 5 followed by at least one digit other than the number zero, the last figure retained shall be increased by one unit; **and**
- (3) If the first digit discarded is exactly the number 5, followed only by zeros, the last digit retained shall be rounded upward if it is an odd number, but no adjustment shall be made if it is an even number.
- (4) The final result of the calculation shall be expressed in the units of the standard.

**Control Devices:** In accordance with 20.2.72.203.A(3) and (8) NMAC, 20.2.70.300.D(5)(b) and (e) NMAC, and 20.2.73.200.B(7) NMAC, the permittee shall report all control devices and list each pollutant controlled by the control device

regardless if the applicant takes credit for the reduction in emissions. The applicant can indicate in this section of the application if they chose to not take credit for the reduction in emission rates. For notices of intent submitted under 20.2.73 NMAC, only uncontrolled emission rates can be considered to determine applicability unless the state or federal Acts require the control. This information is necessary to determine if federally enforceable conditions are necessary for the control device, and/or if the control device produces its own regulated pollutants or increases emission rates of other pollutants.

### Engine Emissions Estimate

The maximum short-term emissions are estimated in units of lb/hr using the maximum output power and heat rate for the engine. Emission factors for NO<sub>x</sub>, CO, and VOC are based on emission factors from the manufacturer's specifications. The Propane Refrigeration Engine (Unit Number: 44) emission factors for NO<sub>x</sub>, CO, VOC, and formaldehyde are 0.50 g/hp-hr, 2.24 g/hp-hr, and 0.49 g/hp-hr, and 0.52 g/hp-hr, respectively. The emission factors were converted to lb/MMBtu for ease of use in estimating emissions. PM, benzene, acetaldehyde, and acrolein emissions are estimated using emission factors from AP-42, Chapter 3.2, Table 3.2-2 for 4-stroke lean-burn engines. For the purposes of these calculations, PM = PM<sub>10</sub> = PM<sub>2.5</sub>. SO<sub>2</sub> emissions are estimated using the emission factor listed in AP-42, Chapter 3.2, Table 3.2-2, adjusted for 5.0 g-S/100 scf of natural gas from the 0.2 gr-S/100 scf of natural gas in AP-42. The engine is equipped with a catalytic oxidizer, which controls CO emissions with a 80% control efficiency, and VOC and Formaldehyde emissions with a 75% control efficiency. NO<sub>x</sub>, CO, VOC, PM<sub>10</sub>, PM<sub>2.5</sub>, formaldehyde, and other HAP maximum short-term emissions are estimated using the following calculation methodology (using NO<sub>x</sub> as an example):

$$(0.5 \text{ lb NO}_x / \text{MMBtu}) \times (1,035 \text{ hp}) \times (8,183 \text{ Btu} / \text{hp-hr}) \times (\text{MMBtu} / 10^6 \text{ Btu}) = 1.14 \text{ lb} / \text{hr NO}_x$$

Annual average emissions are estimated in units of tpy, assuming operation of 8,760 hours per year. NO<sub>x</sub>, CO, VOC, PM<sub>10</sub>, PM<sub>2.5</sub>, formaldehyde, and other HAP tpy emissions are estimated using the following calculation methodology (using NO<sub>x</sub> as an example):

$$(1.14 \text{ lb NO}_x / \text{hr}) \times (8,760 \text{ hrs} / \text{yr}) \times (1 \text{ ton} / 2,000 \text{ lbs}) = 4.99 \text{ tpy NO}_x$$

All SSM emissions at the site are routed to either unit 17 acid gas flare, 18 low pressure inlet flare, or 19 high pressure inlet flare. With the installation of this new engine, SSM emissions are already accounted for and will not increase above current allowable emission rates.

### Fugitive Emissions Estimate

This section outlines the emission rates, calculation methodologies, and assumptions directly related to equipment components (Unit Number: FUG) associated with this project. These equipment components are potential sources of VOC, CO<sub>2e</sub>, and HAPS emissions due to leaking valves, flanges, seals, etc. Therefore, in the event of any equipment component leaks, these pollutants could be emitted to the atmosphere.

Potential VOC and HAPS emissions from leaking equipment components are estimated using emission factors in the USEPA "Protocol for Equipment Leak Emission Estimates" for oil and gas production operations, 11/95 (EPA-453/R-95-017), Table 2-4, Page 2-15 and the percentage of each component in the inlet gas (per the representative inlet gas analysis from the Maljamar Gas Plant). The percentages of VOC and HAPS are normalized for TOC for use with fugitive emission factors only. Fugitive emission factors are listed in units of lb/hr TOC per component. Hourly emissions are calculated as follows (using VOC emissions for connectors in gas service as an example):

$$(159 \text{ connector components}) \times (4.41\text{E-}04 \text{ lb/hr} / \text{component}) \times 27.13 \% \text{ VOC} = 0.019 \text{ lb VOC} / \text{hr}$$

Annual average emissions of VOC from connectors in gas service are estimated as follows:

$$(0.019 \text{ lb VOC} / \text{hr}) \times (8,760 \text{ hours} / \text{year}) \times (1 \text{ ton} / 2,000 \text{ lbs}) = 0.084 \text{ tpy VOC}$$

# Section 6.a

## Green House Gas Emissions

(Submitting under 20.2.70, 20.2.72 20.2.74 NMAC)

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**Title V (20.2.70 NMAC), Minor NSR (20.2.72 NMAC), and PSD (20.2.74 NMAC)** applicants must estimate and report greenhouse gas (GHG) emissions to verify the emission rates reported in the public notice, determine applicability to 40 CFR 60 Subparts, and to evaluate Prevention of Significant Deterioration (PSD) applicability. GHG emissions that are subject to air permit regulations consist of the sum of an aggregate group of these six greenhouse gases: carbon dioxide (CO<sub>2</sub>), nitrous oxide (N<sub>2</sub>O), methane (CH<sub>4</sub>), hydrofluorocarbons (HFCs), perfluorocarbons (PFCs), and sulfur hexafluoride (SF<sub>6</sub>).

### Calculating GHG Emissions:

1. Calculate the ton per year (tpy) GHG mass emissions and GHG CO<sub>2</sub>e emissions from your facility.
2. GHG mass emissions are the sum of the total annual tons of greenhouse gases without adjusting with the global warming potentials (GWPs). GHG CO<sub>2</sub>e emissions are the sum of the mass emissions of each individual GHG multiplied by its GWP found in Table A-1 in 40 CFR 98 Mandatory Greenhouse Gas Reporting.
3. Emissions from routine or predictable start up, shut down, and maintenance must be included.
4. Report GHG mass and GHG CO<sub>2</sub>e emissions in Table 2-P of this application. Emissions are reported in **short** tons per year and represent each emission unit's Potential to Emit (PTE).
5. All Title V major sources, PSD major sources, and all power plants, whether major or not, must calculate and report GHG mass and CO<sub>2</sub>e emissions for each unit in Table 2-P.
6. For minor source facilities that are not power plants, are not Title V, and are not PSD there are three options for reporting GHGs in Table 2-P: 1) report GHGs for each individual piece of equipment; 2) report all GHGs from a group of unit types, for example report all combustion source GHGs as a single unit and all venting GHGs as a second separate unit; 3) or check the following  By checking this box, the applicant acknowledges the total CO<sub>2</sub>e emissions are less than 75,000 tons per year.

### Sources for Calculating GHG Emissions:

- Manufacturer's Data
- AP-42 Compilation of Air Pollutant Emission Factors at <http://www.epa.gov/ttn/chief/ap42/index.html>
- EPA's Internet emission factor database WebFIRE at <http://cfpub.epa.gov/webfire/>
- 40 CFR 98 Mandatory Green House Gas Reporting except that tons should be reported in short tons rather than in metric tons for the purpose of PSD applicability.
- API Compendium of Greenhouse Gas Emissions Methodologies for the Oil and Natural Gas Industry. August 2009 or most recent version.
- Sources listed on EPA's NSR Resources for Estimating GHG Emissions at <http://www.epa.gov/nsr/clean-air-act-permitting-greenhouse-gases>:

### Global Warming Potentials (GWP):

Applicants must use the Global Warming Potentials codified in Table A-1 of the most recent version of 40 CFR 98 Mandatory Greenhouse Gas Reporting. The GWP for a particular GHG is the ratio of heat trapped by one unit mass of the GHG to that of one unit mass of CO<sub>2</sub> over a specified time period.

"Greenhouse gas" for the purpose of air permit regulations is defined as the aggregate group of the following six gases: carbon dioxide, nitrous oxide, methane, hydrofluorocarbons, perfluorocarbons, and sulfur hexafluoride. **(20.2.70.7 NMAC, 20.2.74.7 NMAC)**. You may also find GHGs defined in 40 CFR 86.1818-12(a).

### Metric to Short Ton Conversion:

Short tons for GHGs and other regulated pollutants are the standard unit of measure for PSD and title V permitting programs. 40 CFR 98 Mandatory Greenhouse Reporting requires metric tons.

1 metric ton = 1.10231 short tons (per Table A-2 to Subpart A of Part 98 – Units of Measure Conversions)

**Engine Greenhouse Gas Emissions Estimate**

GHG emissions for the combustion of natural gas in the engines are estimated using the methodology in Title 40 Code of Federal Regulations (“40 CFR”) Part 98, Subpart C. GHG emission rates of N<sub>2</sub>O, CH<sub>4</sub>, and CO<sub>2</sub> are calculated using the Mandatory Reporting Rule (“MRR”) factors, in a manner similar to NO<sub>x</sub>, CO, VOC, PM, SO<sub>2</sub>, formaldehyde, and HAPs emission calculations.

CH<sub>4</sub> emissions are estimated using the emission factor  $1.0 \times 10^{-3}$  kilograms per million British thermal units (“kg/MMBtu”) (0.0022 lb/MMBtu), N<sub>2</sub>O emissions are estimated using the emission factor  $1.0 \times 10^{-4}$  kg/MMBtu (0.00022 lb/MMBtu), and CO<sub>2</sub> emissions are estimated using the emission factor 53.06 kg/MMBtu (116.98 lb/MMBtu) (Tables C-1 and C-2 to subpart C of 40 CFR Part 98). The emission factors are converted from kg/MMBtu to lb/MMBtu. CH<sub>4</sub>, N<sub>2</sub>O, and CO<sub>2</sub> lb/hr emissions are calculated using the following calculation methodology (using CH<sub>4</sub> as an example):

$$(0.0022 \text{ lb CH}_4 / \text{MMBtu}) \times (1,035 \text{ hp}) \times (8,183 \text{ Btu} / \text{hp-hr}) \times (\text{MMBtu} / 10^6 \text{ Btu}) = 0.02 \text{ lb} / \text{hr CH}_4$$

The annual average emission rate of each GHG is then estimated assuming 8,760 hours of operation per year and converted to tons. Annual emissions of each GHG are calculated as follows (using CH<sub>4</sub> as an example):

$$(0.02 \text{ lb CH}_4 / \text{hr}) \times (8,760 \text{ hrs} / \text{yr}) \times (1 \text{ ton} / 2,000 \text{ lbs}) = 0.09 \text{ tpy CH}_4$$

The CO<sub>2</sub>e emission rate for the engines is then estimated by multiplying the individual GHG emission rate by the appropriate GWP as specified in 40 CFR 98, Subpart A, Table A-1.

Therefore, the maximum hourly CO<sub>2</sub>e emission rate for the engines is estimated as follows:

$$((990.72 \text{ lb CO}_2 / \text{hr}) \times (1)) + ((0.02 \text{ lb CH}_4 / \text{hr}) \times (25)) + ((0.002 \text{ lb} / \text{N}_2\text{O hr}) \times (298)) = 991.82 \text{ lb CO}_2\text{e} / \text{hr}$$

Annual average CO<sub>2</sub>e emissions are estimated assuming 8,760 operating hours per year and converted to tons:

$$(991.82 \text{ lb CO}_2\text{e} / \text{hr}) \times (8,760 \text{ hr} / \text{yr}) \times (1 \text{ ton} / 2,000 \text{ lbs}) = 4,344.17 \text{ tpy CO}_2\text{e}$$

**Fugitive Greenhouse Gas Emissions Estimate**

Total maximum CO<sub>2</sub> and CH<sub>4</sub> emissions for all components in all streams are calculated using the method described above for VOC emissions. The total CO<sub>2</sub>e emission rate for the equipment leak fugitives is estimated by multiplying the speciated emission rates by the appropriate GWP as outlined in Table 3.1-1 and summing the results. Therefore, maximum hourly CO<sub>2</sub>e emission rates are calculated as follows (using connectors in gas service as an example):

$$(0.001 \text{ lb CO}_2 / \text{hr} \times 1) + (0.06 \text{ lb CH}_4 / \text{hr} \times 25) = 1.48 \text{ lb CO}_2\text{e} / \text{hr}$$

The annual average CO<sub>2</sub>e emission rate is calculated assuming 8,760 hours of operation per year and converted to tons:

$$(1.48 \text{ lb CO}_2\text{e} / \text{hour}) \times (8,760 \text{ hours} / \text{year}) \times (1 \text{ ton} / 2,000 \text{ lbs}) = 6.50 \text{ ton CO}_2\text{e} / \text{year}$$

**Frontier Field Services, LLC  
Maljamar Gas Plant**

Unit Number	44
Source Description	Propane Refrigeration Engine
Engine Make	Caterpillar
Engine Model	G3512B
Serial Number	
Manufacture Date	
Ignition Type	4SLB
Net Output Power	1,035 hp
Fuel Consumption	8,183 Btu/hp-hr
Heating Value	996 Btu/Scf
Hourly Fuel Usage	8.50 Mscf/hr
Annual Fuel Usage	74.49 MMscf/yr
Hours of Operation	8,760 hours
Stack Height	22.7 ft
Stack Diameter	1 ft
Exit Velocity	143.00 ft/s
Stack Temperature	680.00 °F

**Example Calculations**

1.  $\text{lb/hr NO}_x = (\text{lb/MMBtu} * \text{hp} * \text{Btu/hp-hr}) / 1,000,000 \text{ Btu/MMBtu}$

2.  $\text{tpy NO}_x = (\text{lb/hr NO}_x) * \text{hrs} / 2,000 \text{ lbs/ton}$

**Potential Emissions**

Pollutant	Pre-Control Emission Factor (g/bhp-hr)	Control Efficiency	Post-Control Emission Factor (lb/MMBtu)	Estimated Emissions		Source of Emission Factor
				(lb/hr)	(tpy)	
NO <sub>x</sub>	0.50	--	0.1347	1.14	4.99	Vendor Data
CO <sup>1</sup>	2.24	80.0%	0.1207	1.02	4.47	Vendor Data
Total VOC <sup>2</sup>	0.49	75.0%	0.0330	0.28	1.23	Vendor Data
PM <sup>3</sup>	--	--	0.0099	0.08	0.35	AP-42 Table 3.2-2
SO <sub>2</sub> <sup>4</sup>	--	--	0.0147	0.12	0.53	AP-42 Table 3.2-2 (adjusted)
Formaldehyde <sup>5</sup>	0.52	75.0%	0.0350	0.30	1.31	Vendor Data
Benzene	--	--	4.40E-04	4.00E-03	0.02	AP-42 Table 3.2-2
Acetaldehyde	--	--	0.0084	0.07	0.31	AP-42 Table 3.2-2
Acrolein	--	--	0.0051	0.04	0.18	AP-42 Table 3.2-2
N <sub>2</sub> O	--	--	0.0002	2.00E-03	0.01	40 CFR Part 98, Subpart C
CH <sub>4</sub>	--	--	0.0022	0.02	0.09	40 CFR Part 98, Subpart C
CO <sub>2</sub>	--	--	116.9761	990.72	4,339.35	40 CFR Part 98, Subpart C
CO <sub>2</sub> e	--	--	--	991.82	4,344.58	--

<sup>1</sup> Vendor data indicates that the catalytic oxidizer controls CO by 80%

<sup>2</sup> Emission factor from vendor for NMNEHC is 0.49 g/HP-hr. Vendor data indicates that the catalytic oxidizer controls VOC by 75%.

<sup>3</sup> For purposes of these calculations, PM = PM<sub>10</sub> = PM<sub>2.5</sub>.

<sup>4</sup> SO<sub>2</sub> emission factor based on AP-42 Table 3.2-2 and adjusted based on 5.0 gr S per 100 scf of natural gas.

<sup>5</sup> Vendor data indicates that the catalytic oxidizer controls formaldehyde emissions by 75%.

**Frontier Field Services, LLC  
Maljamar Gas Plant**

Unit Number: FUG  
Source Description: Fugitive Emissions

Component Type	Actual Component Count	Component Count <sup>1</sup>	Service Type	Factor <sup>2</sup> (lb/hr/comp)	Total (lbs/hr)	Total (tpy)	VOC (wt%) <sup>3</sup>	VOC (lbs/hr)	VOC (tpy)	HAPs (wt%) <sup>3</sup>	HAPs (lbs/hr)	HAPs (tpy)	CH <sub>4</sub> (lbs/hr)	CH <sub>4</sub> (tpy)	CO <sub>2</sub> (lbs/hr)	CO <sub>2</sub> (tpy)	CO <sub>2</sub> e <sup>4</sup> (lbs/hr)	CO <sub>2</sub> e <sup>4</sup> (tpy)
VALVE	23	26	Gas	9.92E-03	0.26	1.13	27.13%	0.070	0.307	2.94%	7.59E-03	0.03	0.25	1.08	0.004	0.018	6.17	27.02
CONNECTORS	138	159	Gas	4.41E-04	0.07	0.31	27.13%	0.019	0.084	2.94%	2.08E-03	0.01	0.07	0.30	0.001	0.005	1.71	7.50
FLANGES	28	32	Gas	8.60E-04	0.03	0.12	27.13%	0.008	0.033	2.94%	8.06E-04	0.00	0.03	0.12	0.000	0.002	0.68	3.00
OTHERS	3	3	Gas	1.94E-02	0.07	0.29	27.13%	0.018	0.079	2.94%	1.95E-03	8.53E-03	0.06	0.28	0.001	0.005	1.60	7.00
<b>Total</b>		<b>220</b>	-	-	<b>0.42</b>	<b>1.85</b>	-	<b>0.11</b>	<b>0.50</b>	-	<b>0.01</b>	<b>0.05</b>	<b>0.41</b>	<b>1.78</b>	<b>0.01</b>	<b>0.03</b>	<b>10.16</b>	<b>44.52</b>

<sup>1</sup> The component count used for the emission estimates conservatively adds a 15% safety factor from actual component counts.

<sup>2</sup> Emission Factors from EPA-453/R-95-17, Protocol for Equipment Leak Emission Estimates, Table 2-4, (11/95)

<sup>3</sup> Gas VOC and HAPs weight percent is based on an inlet gas sample.

<sup>4</sup> Assumes 95.87 wt% CH<sub>4</sub>, and 1.58 wt% CO<sub>2</sub>

FUG Emissions	VOC	
	(lbs/hr)	(tpy)
Current Allowable	13.52	59.20
Project	0.11	0.50
Proposed Allowable	13.63	59.70

**Frontier Field Services, LLC  
Maljamar Gas Plant**

**Maljamar Gas Plant Inlet Gas Analysis**

**Natural Gas Analysis**

Heating Value (Btu/scf) 996.0

Pollutant	Molecular Weight (lb/lbmol)	Percent by Volume (Mole %)	Gas Weight (lb/lbmol)	Percent by Weight (Wt %)	Percent by Weight (Wt %)²
Methane	16.04	71.392%	11.4513	50.784%	54.216%
Ethane	30.07	13.101%	3.9395	17.471%	18.652%
<b>Total HC (Non-VOC)</b>		<b>84.49%</b>		<b>68.25%</b>	<b>72.87%</b>
Propane	44.10	6.431%	2.836	12.577%	13.427%
i-Butane	58.12	0.768%	0.446	1.980%	2.113%
n-Butane	58.12	1.922%	1.117	4.954%	5.289%
i-Pentane	72.15	0.492%	0.355	1.574%	1.681%
n-Pentane	72.15	0.492%	0.355	1.574%	1.681%
n-Hexane	86.18	0.721%	0.621	2.756%	2.942%
<b>Total NMNE VOC</b>		<b>10.826%</b>		<b>25.41%</b>	<b>27.13%</b>
<b>Total HAPs</b>		<b>0.721%</b>		<b>2.76%</b>	<b>2.94%</b>
Carbon Dioxide	44.01	1.426%	62.758%	2.783%	-
Nitrogen	28.02	2.855%	79.997%	3.548%	-
<b>Totals</b>		<b>100%</b>	<b>22.55</b>	<b>100.00%</b>	<b>100.00%</b>

<sup>1</sup> Based on inlet gas sample L.P. Inlet, test no. 21798.

<sup>2</sup> Percentage is normalized for Total Organic Compounds for use with Fugitive emission factors only. Fugitive emission factors are in units of lb/hr TOC per component.

MANLEY GAS TESTING, INC.

P.O. DRAWER 193  
OFFICE(432)367-3024

FAX(432)367-1166

ODESSA, TEXAS 79760  
E-MAIL: MANLEYGAST@AOL.COM

CHARGE..... 150 - 0  
REC. NO. .... 15  
TEST NUMBER.. 21798

DATE SAMPLED..... 12-16-19  
DATE RUN..... 12-19-19  
EFFEC. DATE..... 12-01-19

STATION NO. ... 06012021

PRODUCER ..... DURANGO MIDSTREAM

SAMPLE NAME.... L.P. INLET

TYPE: COMPOSITE

RECEIVED FROM.. FRONTIER FIELD SERVICES LLC - MALJAMAR

FLOWING PRESSURE ..... 28.0 PSIA

FLOWING TEMPERATURE ..... 61 F

SAMPLED BY: JT

CYLINDER NO. ...

FRACTIONAL ANALYSIS  
CALCULATED @ 14.650 PSIA AND 60F

	MOL%	GPM (REAL)
HYDROGEN SULFIDE...	0.400	
NITROGEN.....	2.855	
CARBON DIOXIDE.....	1.426	
METHANE.....	71.392	
ETHANE.....	13.101	3.498
PROPANE.....	6.431	1.769
ISO-BUTANE.....	0.768	0.251
NOR-BUTANE.....	1.922	0.604
ISO-PENTANE.....	0.492	0.180
NOR-PENTANE.....	0.492	0.178
HEXANES +.....	0.721	0.315
TOTALS .....	100.000	6.795

H2S PPMV = 4000

'Z' FACTOR (DRY) = 0.9960

'Z' FACTOR (WET) = 0.9956

CALC. MOL. WT. = 22.73

..CALCULATED SPECIFIC GRAVITIES..

REAL, DRY ..... 0.7878

REAL, WET ..... 0.7853

..CALCULATED GROSS HEATING VALUES..

BTU/CF - REAL, DRY ..... 1280

BTU/CF - REAL, WET ..... 1259

DISTRIBUTION AND REMARKS:

N

ANALYZED BY: MW

\*\* R \*\*

APPROVED:





Table 3.2-2. UNCONTROLLED EMISSION FACTORS FOR 4-STROKE LEAN-BURN ENGINES<sup>a</sup>  
(SCC 2-02-002-54)

Pollutant	Emission Factor (lb/MMBtu) <sup>b</sup> (fuel input)	Emission Factor Rating
Criteria Pollutants and Greenhouse Gases		
NO <sub>x</sub> <sup>c</sup> 90 - 105% Load	4.08 E+00	B
NO <sub>x</sub> <sup>c</sup> <90% Load	8.47 E-01	B
CO <sup>c</sup> 90 - 105% Load	3.17 E-01	C
CO <sup>c</sup> <90% Load	5.57 E-01	B
CO <sub>2</sub> <sup>d</sup>	1.10 E+02	A
SO <sub>2</sub> <sup>e</sup>	5.88 E-04	A
TOC <sup>f</sup>	1.47 E+00	A
Methane <sup>g</sup>	1.25 E+00	C
VOC <sup>h</sup>	1.18 E-01	C
PM10 (filterable) <sup>i</sup>	7.71 E-05	D
PM2.5 (filterable) <sup>i</sup>	7.71 E-05	D
PM Condensable <sup>j</sup>	9.91 E-03	D
Trace Organic Compounds		
1,1,2,2-Tetrachloroethane <sup>k</sup>	<4.00 E-05	E
1,1,2-Trichloroethane <sup>k</sup>	<3.18 E-05	E
1,1-Dichloroethane	<2.36 E-05	E
1,2,3-Trimethylbenzene	2.30 E-05	D
1,2,4-Trimethylbenzene	1.43 E-05	C
1,2-Dichloroethane	<2.36 E-05	E
1,2-Dichloropropane	<2.69 E-05	E
1,3,5-Trimethylbenzene	3.38 E-05	D
1,3-Butadiene <sup>k</sup>	2.67E-04	D
1,3-Dichloropropene <sup>k</sup>	<2.64 E-05	E
2-Methylnaphthalene <sup>k</sup>	3.32 E-05	C
2,2,4-Trimethylpentane <sup>k</sup>	2.50 E-04	C
Acenaphthene <sup>k</sup>	1.25 E-06	C

Table 3.2-2. UNCONTROLLED EMISSION FACTORS FOR 4-STROKE LEAN-BURN ENGINES  
(Continued)

Pollutant	Emission Factor (lb/MMBtu) <sup>b</sup> (fuel input)	Emission Factor Rating
Acenaphthylene <sup>k</sup>	5.53 E-06	C
Acetaldehyde <sup>k,l</sup>	8.36 E-03	A
Acrolein <sup>k,l</sup>	5.14 E-03	A
Benzene <sup>k</sup>	4.40 E-04	A
Benzo(b)fluoranthene <sup>k</sup>	1.66 E-07	D
Benzo(e)pyrene <sup>k</sup>	4.15 E-07	D
Benzo(g,h,i)perylene <sup>k</sup>	4.14 E-07	D
Biphenyl <sup>k</sup>	2.12 E-04	D
Butane	5.41 E-04	D
Butyr/Isobutyraldehyde	1.01 E-04	C
Carbon Tetrachloride <sup>k</sup>	<3.67 E-05	E
Chlorobenzene <sup>k</sup>	<3.04 E-05	E
Chloroethane	1.87 E-06	D
Chloroform <sup>k</sup>	<2.85 E-05	E
Chrysene <sup>k</sup>	6.93 E-07	C
Cyclopentane	2.27 E-04	C
Ethane	1.05 E-01	C
Ethylbenzene <sup>k</sup>	3.97 E-05	B
Ethylene Dibromide <sup>k</sup>	<4.43 E-05	E
Fluoranthene <sup>k</sup>	1.11 E-06	C
Fluorene <sup>k</sup>	5.67 E-06	C
Formaldehyde <sup>k,l</sup>	5.28 E-02	A
Methanol <sup>k</sup>	2.50 E-03	B
Methylcyclohexane	1.23 E-03	C
Methylene Chloride <sup>k</sup>	2.00 E-05	C
n-Hexane <sup>k</sup>	1.11 E-03	C
n-Nonane	1.10 E-04	C

Table 3.2-2. UNCONTROLLED EMISSION FACTORS FOR 4-STROKE LEAN-BURN ENGINES  
(Continued)

Pollutant	Emission Factor (lb/MMBtu) <sup>b</sup> (fuel input)	Emission Factor Rating
n-Octane	3.51 E-04	C
n-Pentane	2.60 E-03	C
Naphthalene <sup>k</sup>	7.44 E-05	C
PAH <sup>k</sup>	2.69 E-05	D
Phenanthrene <sup>k</sup>	1.04 E-05	D
Phenol <sup>k</sup>	2.40 E-05	D
Propane	4.19 E-02	C
Pyrene <sup>k</sup>	1.36 E-06	C
Styrene <sup>k</sup>	<2.36 E-05	E
Tetrachloroethane <sup>k</sup>	2.48 E-06	D
Toluene <sup>k</sup>	4.08 E-04	B
Vinyl Chloride <sup>k</sup>	1.49 E-05	C
Xylene <sup>k</sup>	1.84 E-04	B

<sup>a</sup> Reference 7. Factors represent uncontrolled levels. For NO<sub>x</sub>, CO, and PM<sub>10</sub>, “uncontrolled” means no combustion or add-on controls; however, the factor may include turbocharged units. For all other pollutants, “uncontrolled” means no oxidation control; the data set may include units with control techniques used for NO<sub>x</sub> control, such as PCC and SCR for lean burn engines, and PSC for rich burn engines. Factors are based on large population of engines. Factors are for engines at all loads, except as indicated. SCC = Source Classification Code. TOC = Total Organic Compounds. PM-10 = Particulate Matter ≤ 10 microns (μm) aerodynamic diameter. A “<” sign in front of a factor means that the corresponding emission factor is based on one-half of the method detection limit.

<sup>b</sup> Emission factors were calculated in units of (lb/MMBtu) based on procedures in EPA Method 19. To convert from (lb/MMBtu) to (lb/10<sup>6</sup> scf), multiply by the heat content of the fuel. If the heat content is not available, use 1020 Btu/scf. To convert from (lb/MMBtu) to (lb/hp-hr) use the following equation:

$$\text{lb/hp-hr} = (\text{lb/MMBtu}) (\text{heat input, MMBtu/hr}) (1/\text{operating HP, 1/hp})$$

<sup>c</sup> Emission tests with unreported load conditions were not included in the data set.

<sup>d</sup> Based on 99.5% conversion of the fuel carbon to CO<sub>2</sub>. CO<sub>2</sub> [lb/MMBtu] = (3.67)(%CON)(C)(D)(1/h), where %CON = percent conversion of fuel carbon to CO<sub>2</sub>, C = carbon content of fuel by weight (0.75), D = density of fuel, 4.1 E+04 lb/10<sup>6</sup> scf, and

- h = heating value of natural gas (assume 1020 Btu/scf at 60°F).
- <sup>e</sup> Based on 100% conversion of fuel sulfur to SO<sub>2</sub>. Assumes sulfur content in natural gas of 2,000 gr/10<sup>6</sup> scf.
- <sup>f</sup> Emission factor for TOC is based on measured emission levels from 22 source tests.
- <sup>g</sup> Emission factor for methane is determined by subtracting the VOC and ethane emission factors from the TOC emission factor. Measured emission factor for methane compares well with the calculated emission factor, 1.31 lb/MMBtu vs. 1.25 lb/MMBtu, respectively.
- <sup>h</sup> VOC emission factor is based on the sum of the emission factors for all speciated organic compounds less ethane and methane.
- <sup>i</sup> Considered  $\leq 1 \mu\text{m}$  in aerodynamic diameter. Therefore, for filterable PM emissions, PM10(filterable) = PM2.5(filterable).
- <sup>j</sup> PM Condensable = PM Condensable Inorganic + PM-Condensable Organic
- <sup>k</sup> Hazardous Air Pollutant as defined by Section 112(b) of the Clean Air Act.
- <sup>l</sup> For lean burn engines, aldehyde emissions quantification using CARB 430 may reflect interference with the sampling compounds due to the nitrogen concentration in the stack. The presented emission factor is based on FTIR measurements. Emissions data based on CARB 430 are available in the background report.

TABLE 2-4. OIL AND GAS PRODUCTION OPERATIONS AVERAGE EMISSION FACTORS (kg/hr/source)

Equipment Type	Service <sup>a</sup>	Emission Factor (kg/hr/source) <sup>b</sup>
Valves	Gas	4.5E-03
	Heavy Oil	8.4E-06
	Light Oil	2.5E-03
	Water/Oil	9.8E-05
Pump seals	Gas	2.4E-03
	Heavy Oil	NA
	Light Oil	1.3E-02
	Water/Oil	2.4E-05
Others <sup>c</sup>	Gas	8.8E-03
	Heavy Oil	3.2E-05
	Light Oil	7.5E-03
	Water/Oil	1.4E-02
Connectors	Gas	2.0E-04
	Heavy Oil	7.5E-06
	Light Oil	2.1E-04
	Water/Oil	1.1E-04
Flanges	Gas	3.9E-04
	Heavy Oil	3.9E-07
	Light Oil	1.1E-04
	Water/Oil	2.9E-06
Open-ended lines	Gas	2.0E-03
	Heavy Oil	1.4E-04
	Light Oil	1.4E-03
	Water/Oil	2.5E-04

<sup>a</sup>Water/Oil emission factors apply to water streams in oil service with a water content greater than 50%, from the point of origin to the point where the water content reaches 99%. For water streams with a water content greater than 99%, the emission rate is considered negligible.

<sup>b</sup>These factors are for total organic compound emission rates (including non-VOC's such as methane and ethane) and apply to light crude, heavy crude, gas plant, gas production, and off shore facilities. "NA" indicates that not enough data were available to develop the indicated emission factor.

<sup>c</sup>The "other" equipment type was derived from compressors, diaphragms, drains, dump arms, hatches, instruments, meters, pressure relief valves, polished rods, relief valves, and vents. This "other" equipment type should be applied for any equipment type other than connectors, flanges, open-ended lines, pumps, or valves.

# Section 7

## Information Used To Determine Emissions

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### Information Used to Determine Emissions shall include the following:

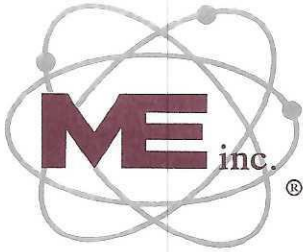
- If manufacturer data are used, include specifications for emissions units and control equipment, including control efficiencies specifications and sufficient engineering data for verification of control equipment operation, including design drawings, test reports, and design parameters that affect normal operation.
  - If test data are used, include a copy of the complete test report. If the test data are for an emissions unit other than the one being permitted, the emission units must be identical. Test data may not be used if any difference in operating conditions of the unit being permitted and the unit represented in the test report significantly effect emission rates.
  - If the most current copy of AP-42 is used, reference the section and date located at the bottom of the page. Include a copy of the page containing the emissions factors, and clearly mark the factors used in the calculations.
  - If an older version of AP-42 is used, include a complete copy of the section.
  - If an EPA document or other material is referenced, include a complete copy.
  - Fuel specifications sheet.
  - If computer models are used to estimate emissions, include an input summary (if available) and a detailed report, and a disk containing the input file(s) used to run the model. For tank-flashing emissions, include a discussion of the method used to estimate tank-flashing emissions, relative thresholds (i.e., permit or major source (NSPS, PSD or Title V)), accuracy of the model, the input and output from simulation models and software, all calculations, documentation of any assumptions used, descriptions of sampling methods and conditions, copies of any lab sample analysis.
- 

### Engines

- NO<sub>x</sub>, CO, and VOC emission factors are from manufacturer specifications;
- Oxidation catalyst control efficiency is from manufacturer specification;
- For these estimates, it is assumed PM = PM<sub>10</sub> = PM<sub>2.5</sub>;
- SO<sub>2</sub> emission factor based on AP-42 Table 3.2-2 and adjusted based on 5.0 gr S per 100 scf of natural gas;
- CO<sub>2e</sub> emissions were estimated using 40 CFR 98, Subpart C.

### Fugitives

- Emission factors in the USEPA "Protocol for Equipment Leak Emission Estimates" for oil and gas production operations, 11/95 (EPA-453/R-95-017), Table 2-4, Page 2-15; and
- The percentage of each component in the inlet gas (per the representative inlet gas analysis from the Maljamar Gas Plant)



**MECHANICAL EQUIPMENT**  
**INC.**

September 13, 2019

Durango Permian  
2002 Timberloch Place  
Suite 110  
The Woodlands, TX 77380

Re: Catalyst Efficiencies – MEQGT1.0/O NT

Dear Mary,

Per your request, I am sending you the information regarding the reduction efficiency of the catalysts that you have installed at the Empire Abo and Coyote Compressor Stations.

The Make and Model of the catalyst is an MEQGT-1.0/O NT

The catalysts mentioned above are guaranteed to meet or exceed the following efficiencies:

- 80% CO
- 75% VOC
- 75% HCHO

If you need any additional information please do not hesitate to contact Mechanical Equipment, Inc. at your earliest convenience and we will be more than happy to assist you. Thank you for your continued business.

Sincerely yours,

*Donna Fikes*  
Donna Fikes  
Office Manager

*Maljamar*

# G3512B

## GAS ENGINE SITE SPECIFIC TECHNICAL DATA Maljamar 3512



GAS COMPRESSION APPLICATION

ENGINE SPEED (rpm): 1400  
 COMPRESSION RATIO: 8:1  
 AFTERCOOLER TYPE: SCAC  
 AFTERCOOLER - STAGE 2 INLET (°F): 130  
 AFTERCOOLER - STAGE 1 INLET (°F): 201  
 JACKET WATER OUTLET (°F): 203  
 ASPIRATION: TA  
 COOLING SYSTEM: JW+OC+1AC, 2AC  
 CONTROL SYSTEM: ADEM3  
 EXHAUST MANIFOLD: DRY  
 COMBUSTION: LOW EMISSION  
 NOx EMISSION LEVEL (g/bhp-hr NOx): 0.5  
 SET POINT TIMING: 30

RATING STRATEGY: STANDARD  
 RATING LEVEL: CONTINUOUS  
 FUEL SYSTEM: CAT WIDE RANGE WITH AIR FUEL RATIO CONTROL

**SITE CONDITIONS:**  
 FUEL: Nat Gas  
 FUEL PRESSURE RANGE(psig): 7.0-40.0  
 FUEL METHANE NUMBER: 84.8  
 FUEL LHV (Btu/scf): 905  
 ALTITUDE(ft): 3500  
 MAXIMUM INLET AIR TEMPERATURE(°F): 77  
 STANDARD RATED POWER: 1035 bhp@1400rpm

RATING	NOTES	LOAD	MAXIMUM RATING	SITE RATING AT MAXIMUM INLET AIR TEMPERATURE		
			100%	100%	75%	50%
ENGINE POWER (WITHOUT FAN)	(1)	bhp	1035	1035	776	518
INLET AIR TEMPERATURE		°F	77	77	77	77

ENGINE DATA							
FUEL CONSUMPTION (LHV)	(2)	Btu/bhp-hr	7377	7377	7731	8419	
FUEL CONSUMPTION (HHV)	(2)	Btu/bhp-hr	8183	8183	8576	9339	
AIR FLOW (@inlet air temp, 14.7 psia)	(3)(4)	ft <sup>3</sup> /min	2337	2337	1836	1257	(WET)
AIR FLOW	(3)(4)	lb/hr	10364	10364	8139	5573	(WET)
FUEL FLOW (60°F, 14.7 psia)		scfm	141	141	111	80	
INLET MANIFOLD PRESSURE	(5)	in Hg(abs)	90.5	90.5	73.2	51.8	
EXHAUST TEMPERATURE - ENGINE OUTLET	(6)	°F	975	975	979	1005	
EXHAUST GAS FLOW (@engine outlet temp, 14.5 psia)	(7)(4)	ft <sup>3</sup> /min	6737	6737	5305	3711	(WET)
EXHAUST GAS MASS FLOW	(7)(4)	lb/hr	10750	10750	8442	5792	(WET)

EMISSIONS DATA - ENGINE OUT							
NOx (as NO2)	(8)(9)	g/bhp-hr	0.50	0.50	0.50	0.50	
CO	(8)(9)	g/bhp-hr	2.24	2.24	2.30	2.29	
THC (mol. wt. of 15.84)	(8)(9)	g/bhp-hr	4.92	4.92	4.61	4.56	
NMHC (mol. wt. of 15.84)	(8)(9)	g/bhp-hr	0.74	0.74	0.69	0.68	
NMNEHC (VOCs) (mol. wt. of 15.84)	(8)(9)(10)	g/bhp-hr	0.49	0.49	0.46	0.46	
HCHO (Formaldehyde)	(8)(9)	g/bhp-hr	0.52	0.52	0.54	0.62	
CO2	(8)(9)	g/bhp-hr	456	456	482	514	
EXHAUST OXYGEN	(8)(11)	% DRY	9.6	9.6	9.2	8.8	

HEAT REJECTION							
HEAT REJ. TO JACKET WATER (JW)	(12)	Btu/min	17396	17396	14223	14146	
HEAT REJ. TO ATMOSPHERE	(12)	Btu/min	4664	4664	3887	3110	
HEAT REJ. TO LUBE OIL (OC)	(12)	Btu/min	3963	3963	3593	3135	
HEAT REJ. TO A/C - STAGE 1 (1AC)	(12)(13)	Btu/min	7642	7642	6046	2255	
HEAT REJ. TO A/C - STAGE 2 (2AC)	(12)(13)	Btu/min	4466	4466	3782	2367	

COOLING SYSTEM SIZING CRITERIA			
TOTAL JACKET WATER CIRCUIT (JW+OC+1AC)	(13)(14)	Btu/min	31915
TOTAL AFTERCOOLER CIRCUIT (2AC)	(13)(14)	Btu/min	4689

A cooling system safety factor of 0% has been added to the cooling system sizing criteria.

**CONDITIONS AND DEFINITIONS**

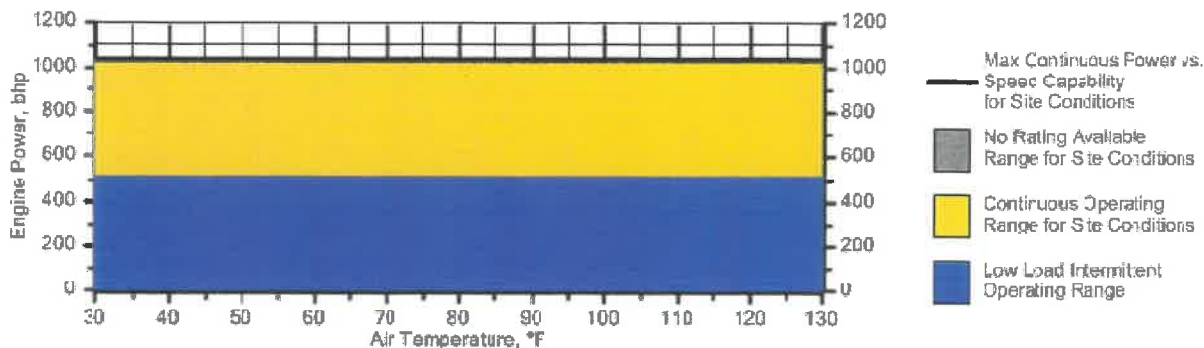
Engine rating obtained and presented in accordance with ISO 3046/1, adjusted for fuel, site altitude and site inlet air temperature. 100% rating at maximum inlet air temperature is the maximum engine capability for the specified fuel at site altitude and maximum site inlet air temperature. Max. rating is the maximum capability for the specified fuel at site altitude and reduced inlet air temperature. Lowest load point is the lowest continuous duty operating load allowed. No overload permitted at rating shown.

For notes information consult page three.



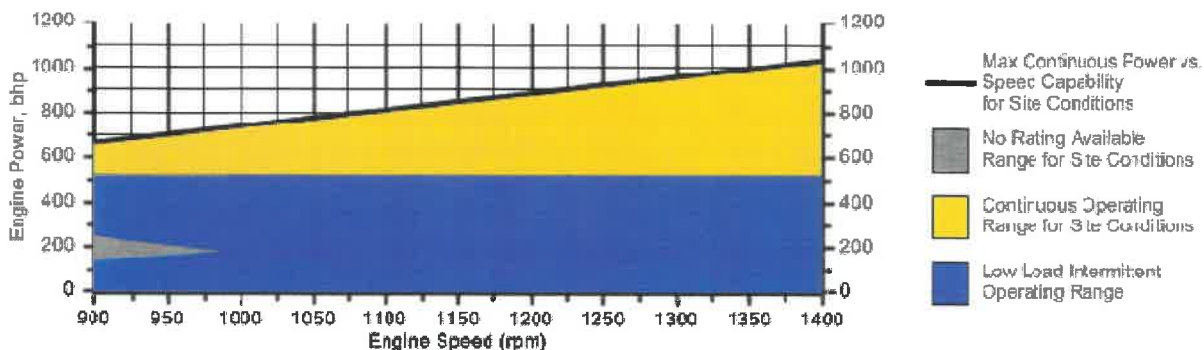
**Engine Power vs. Inlet Air Temperature**

Data represents temperature sweep at 3500 ft and 1400 rpm



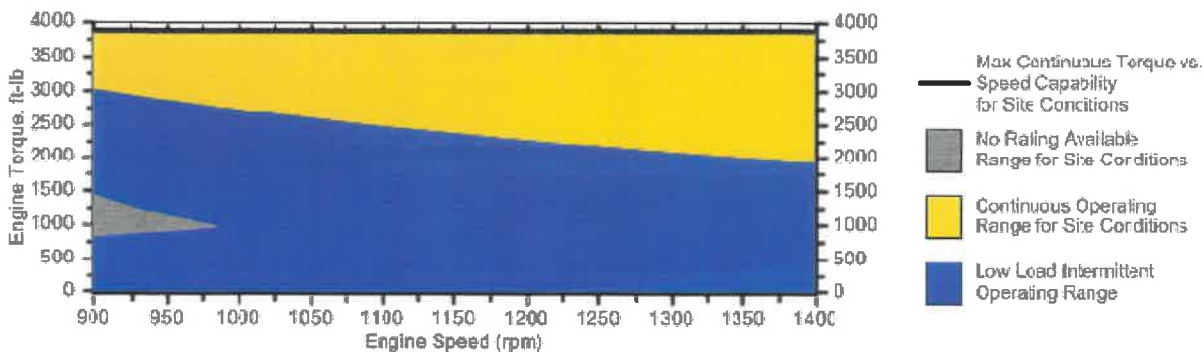
**Engine Power vs. Engine Speed**

Data represents speed sweep at 3500 ft and 77 °F



**Engine Torque vs. Engine Speed**

Data represents speed sweep at 3500 ft and 77 °F



**Note: At site conditions of 3500 ft and 77°F inlet air temp., constant torque can be maintained down to 900 rpm. The minimum speed for loading at these conditions is 990 rpm.**

### NOTES

1. Engine rating is with two engine driven water pumps. Tolerance is  $\pm 3\%$  of full load.
2. Fuel consumption tolerance is  $\pm 3.0\%$  of full load data.
3. Air flow value is on a 'wet' basis. Flow is a nominal value with a tolerance of  $\pm 5\%$ .
4. Inlet and Exhaust Restrictions must not exceed A&I limits based on full load flow rates from the standard technical data sheet.
5. Inlet manifold pressure is a nominal value with a tolerance of  $\pm 5\%$ .
6. Exhaust temperature is a nominal value with a tolerance of (+)63°F, (-)54°F.
7. Exhaust flow value is on a "wet" basis. Flow is a nominal value with a tolerance of  $\pm 6\%$ .
8. Emissions data is at engine exhaust flange prior to any after treatment.
9. Emission values are based on engine operating at steady state conditions. Fuel methane number cannot vary more than  $\pm 3$ . Values listed are higher than nominal levels to allow for instrumentation, measurement, and engine-to-engine variations. They indicate "Not to Exceed" values. THC, NMHC, and NMNEHC do not include aldehydes. An oxidation catalyst may be required to meet Federal, State or local CO or HC requirements.
10. VOCs - Volatile organic compounds as defined in US EPA 40 CFR 60, subpart JJJJ
11. Exhaust Oxygen level is the result of adjusting the engine to operate at the specified NOx level. Tolerance is  $\pm 0.5$ .
12. Heat rejection values are nominal. Tolerances, based on treated water, are  $\pm 10\%$  for jacket water circuit,  $\pm 50\%$  for radiation,  $\pm 20\%$  for lube oil circuit, and  $\pm 5\%$  for aftercooler circuit.
13. Aftercooler heat rejection includes an aftercooler heat rejection factor for the site elevation and inlet air temperature specified. Aftercooler heat rejection values at part load are for reference only. Do not use part load data for heat exchanger sizing.
14. Cooling system sizing criteria are maximum circuit heat rejection for the site, with applied tolerances.

Constituent	Abbrev	Mole %	Norm		
Water Vapor	H2O	0.0000	0.0000		
Methane	CH4	92.2700	92.2700	Fuel Makeup:	Nat Gas
Ethane	C2H6	2.5000	2.5000	Unit of Measure:	English
Propane	C3H8	0.5000	0.5000		
Isobutane	iso-C4H10	0.0000	0.0000	<b>Calculated Fuel Properties</b>	
Norbutane	nor-C4H10	0.2000	0.2000	Caterpillar Methane Number:	84.8
Isopentane	iso-C5H12	0.0000	0.0000	Lower Heating Value (Btu/scf):	905
Norpentane	nor-C5H12	0.1000	0.1000	Higher Heating Value (Btu/scf):	1004
Hexane	C6H14	0.0500	0.0500	WOBBE Index (Btu/scf):	1168
Heptane	C7H16	0.0000	0.0000	THC: Free Inert Ratio:	21.83
Nitrogen	N2	3.4800	3.4800	Total % Inerts (% N2, CO2, He):	4.38%
Carbon Dioxide	CO2	0.9000	0.9000	RPC (%) (To 905 Btu/scf Fuel):	100%
Hydrogen Sulfide	H2S	0.0000	0.0000	Compressibility Factor:	0.998
Carbon Monoxide	CO	0.0000	0.0000	Stoich A/F Ratio (Vol/Vol):	9.45
Hydrogen	H2	0.0000	0.0000	Stoich A/F Ratio (Mass/Mass):	15.75
Oxygen	O2	0.0000	0.0000	Specific Gravity (Relative to Air):	0.600
Helium	HE	0.0000	0.0000	Specific Heat Constant (K):	1.313
Neopentane	neo-C5H12	0.0000	0.0000		
Octane	C8H18	0.0000	0.0000		
Nonane	C9H20	0.0000	0.0000		
Ethylene	C2H4	0.0000	0.0000		
Propylene	C3H6	0.0000	0.0000		
TOTAL (Volume %)		100.0000	100.0000		

#### CONDITIONS AND DEFINITIONS

Caterpillar Methane Number represents the knock resistance of a gaseous fuel. It should be used with the Caterpillar Fuel Usage Guide for the engine and rating to determine the rating for the fuel specified. A Fuel Usage Guide for each rating is included on page 2 of its standard technical data sheet.

RPC always applies to naturally aspirated (NA) engines, and turbocharged (TA or LE) engines only when they are derated for altitude and ambient site conditions.

Project specific technical data sheets generated by the Caterpillar Gas Engine Rating Pro program take the Caterpillar Methane Number and RPC into account when generating a site rating.

Fuel properties for Btu/scf calculations are at 60F and 14.696 psia.

Caterpillar shall have no liability in law or equity, for damages, consequently or otherwise, arising from use of program and related material or any part thereof.

#### FUEL LIQUIDS

Field gases, well head gases, and associated gases typically contain liquid water and heavy hydrocarbons entrained in the gas. To prevent detonation and severe damage to the engine, hydrocarbon liquids must not be allowed to enter the engine fuel system. To remove liquids, a liquid separator and coalescing filter are recommended, with an automatic drain and collection tank to prevent contamination of the ground in accordance with local codes and standards.

To avoid water condensation in the engine or fuel lines, limit the relative humidity of water in the fuel to 80% at the minimum fuel operating temperature.

# Section 8

## Map(s)

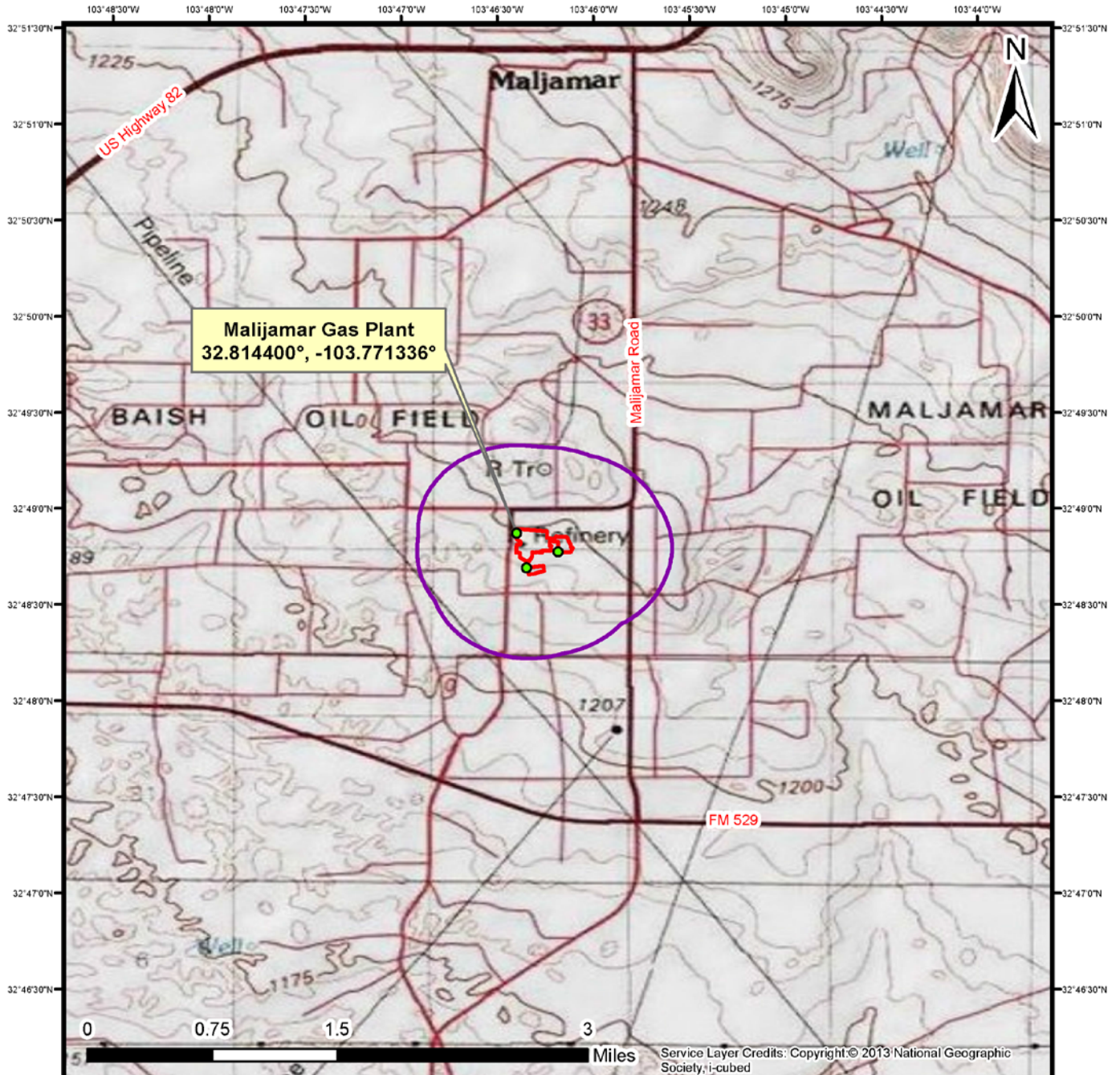
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**A map** such as a 7.5 minute topographic quadrangle showing the exact location of the source. The map shall also include the following:

The UTM or Longitudinal coordinate system on both axes	An indicator showing which direction is north
A minimum radius around the plant of 0.8km (0.5 miles)	Access and haul roads
Topographic features of the area	Facility property boundaries
The name of the map	The area which will be restricted to public access
A graphical scale	

---

To save paper and to standardize the application format, delete this sentence, and begin your submittal for this attachment on this page.



**Legend**

- Project Boundary
- 0.5 Mile Buffer
- Restricted Public Access

MALIJAMAR GAS PLANT  
TOPOGRAPHIC MAP  
FRONTIER FIELD SERVICES, LLC.  
LEA COUNTY, NEW MEXICO

 **SPIRIT**  
ENVIRONMENTAL  
20465 State Highway 249, Suite 300  
Houston, TX 77070

Drawing No.: 1
Date: 2/5/2020
Project No.: 20121.00A
Drawn By: AHasse
Revision No.: 1

Note: This is not a  
Property Boundary Survey

# Section 9

## Proof of Public Notice

(for NSR applications submitting under 20.2.72 or 20.2.74 NMAC)

(This proof is required by: 20.2.72.203.A.14 NMAC “Documentary Proof of applicant’s public notice”)

**I have read the AQB “Guidelines for Public Notification for Air Quality Permit Applications”**

This document provides detailed instructions about public notice requirements for various permitting actions. It also provides public notice examples and certification forms. Material mistakes in the public notice will require a re-notice before issuance of the permit.

Unless otherwise allowed elsewhere in this document, the following items document proof of the applicant’s Public Notification. Please include this page in your proof of public notice submittal with checkmarks indicating which documents are being submitted with the application.

**New Permit** and **Significant Permit Revision** public notices must include all items in this list.

**Technical Revision** public notices require only items 1, 5, 9, and 10.

Per the Guidelines for Public Notification document mentioned above, include:

1.  A copy of the certified letter receipts with post marks (20.2.72.203.B NMAC)
2.  A list of the places where the public notice has been posted in at least four publicly accessible and conspicuous places, including the proposed or existing facility entrance. (e.g: post office, library, grocery, etc.)
3.  A copy of the property tax record (20.2.72.203.B NMAC).
4.  A sample of the letters sent to the owners of record.
5.  A sample of the letters sent to counties, municipalities, and Indian tribes.
6.  A sample of the public notice posted and a verification of the local postings.
7.  A table of the noticed citizens, counties, municipalities and tribes and to whom the notices were sent in each group.
8.  A copy of the public service announcement (PSA) sent to a local radio station and documentary proof of submittal.
9.  A copy of the classified or legal ad including the page header (date and newspaper title) or its affidavit of publication stating the ad date, and a copy of the ad. When appropriate, this ad shall be printed in both English and Spanish.
10.  A copy of the display ad including the page header (date and newspaper title) or its affidavit of publication stating the ad date, and a copy of the ad. When appropriate, this ad shall be printed in both English and Spanish.
11.  A map with a graphic scale showing the facility boundary and the surrounding area in which owners of record were notified by mail. This is necessary for verification that the correct facility boundary was used in determining distance for notifying land owners of record.

# PUBLIC NOTICE

## General Posting of Notices – Certification

I, Harley Everhart, the undersigned, certify that on {Thursday, February 27, 2020}, posted a true and correct copy of the attached Public Notice in the following publicly accessible and conspicuous places in Maljamar and Loco Hills of Lea County, State of New Mexico on the following dates:

1. Maljamar Gas Plant Facility Entrance {Thursday, February 27, 2020},
2. U.S. Post Office  
11036 Highway 82  
Maljamar, NM 88264 {Thursday, February 27, 2020},
3. U.S. Post Office  
3 Goat Roper Road  
Loco Hills, NM 88255 {Thursday, February 27, 2020},
4. Kelly's Café  
132701 Lovington Hwy  
Loco Hills, NM 88255 {Thursday, February 27, 2020},

Signed this 27 day of February, 2020.

  
Signature

Thursday, February 27, 2020  
Date

Harley Everhart  
Printed Name

EHS Analyst  
Title

General Posting of Notice - Certificate, Maljamar, NM  
Friday, February 27, 2020

# NOTICE

Frontier Field Services, LLC announces its application submittal to the New Mexico Environment Department for modification to its air quality permit 0319-M11 for the Maljamar Gas Plant. The expected date of application submittal to the Air Quality Bureau is [**Wednesday, February 26, 2020**].

The exact location for the proposed facility known as, The Maljamar Gas Plant, is at 1001 Conoco Rd., Maljamar, NM 88264, Lea County, latitude 32°48'52" and longitude-103°46'17". Directions to the facility as follows: From Highway 82, Head south on Maljamar Rd for 2.7 miles toward Sand Rd. Turn right onto Conoco Rd and the Maljamar gas plant will be on the right in 0.5 miles.

The proposed modification consists of authorizing the use of one (1) new natural gas fired engine, a new amine contactor, and new associated piping components.

The estimated maximum quantities of any regulated air contaminants after the modification will be as follows in pound per hour (pph) and tons per year (tpy). These reported emissions could change slightly during the course of the Department's review:

Pollutant:	Pounds per hour	Tons per year
Total Suspended Particulates (TSP)	1.5 pph	6.7 tpy
PM <sub>10</sub>	1.5 pph	6.7 tpy
PM <sub>2.5</sub>	1.5 pph	6.7 tpy
Sulfur Dioxide (SO <sub>2</sub> )	3,319.0 pph	249.8 tpy
Nitrogen Oxides (NO <sub>x</sub> )	605.2 pph	179.8 tpy
Carbon Monoxide (CO)	1,459.5 pph	152.1 tpy
Volatile Organic Compounds (VOC)	708.6 pph	147.7 tpy
Total sum of all Hazardous Air Pollutants (HAPs)	2.7 pph	11.7 tpy

The standard and maximum operating schedules of the facility will be 24 hours a day, 7 days a week, 52 weeks per year.

The owner/operator of the Facility is: Frontier Field Services, LLC; 125 Mercado St., Suite 201, Durango, CO 81301

If you have any comments about the construction or operation of this facility, and you want your comments to be made as part of the permit review process, you must submit your comments in writing to this address: Permit Programs Manager; New Mexico Environment Department; Air Quality Bureau; 525 Camino de los Marquez, Suite 1; Santa Fe, New Mexico; 87505-1816; (505) 476-4300; 1 800 224-7009; [https://www.env.nm.gov/aqb/permit/aqb\\_draft\\_permits.html](https://www.env.nm.gov/aqb/permit/aqb_draft_permits.html). Other comments and questions may be submitted verbally.



With your comments, please refer to the company name and facility name, or send a copy of this notice along with your comments. This information is necessary since the Department may have not yet received the permit application. Please include a legible return mailing address. Once the Department has completed its preliminary review of the application and its air quality impacts, the Department's notice will be published in the legal section of a newspaper circulated near the facility location.

### **Atención**

Este es un aviso de la oficina de Calidad del Aire del Departamento del Medio Ambiente de Nuevo México, acerca de las emisiones producidas por un establecimiento en esta área. Si usted desea información en español, por favor comuníquese con esa oficina al teléfono 505-476-5557.

### **Notice of Non-Discrimination**

NMED does not discriminate on the basis of race, color, national origin, disability, age or sex in the administration of its programs or activities, as required by applicable laws and regulations. NMED is responsible for coordination of compliance efforts and receipt of inquiries concerning non-discrimination requirements implemented by 40 C.F.R. Part 7, including Title VI of the Civil Rights Act of 1964, as amended; Section 504 of the Rehabilitation Act of 1973; the Age Discrimination Act of 1975, Title IX of the Education Amendments of 1972, and Section 13 of the Federal Water Pollution Control Act Amendments of 1972. If you have any questions about this notice or any of NMED's non-discrimination programs, policies or procedures, or if you believe that you have been discriminated against with respect to a NMED program or activity, you may contact: Kristine Yurdin, Non-Discrimination Coordinator, NMED, 1190 St. Francis Dr., Suite N4050, P.O. Box 5469, Santa Fe, NM 87502, (505) 827-2855, [nd.coordinator@state.nm.us](mailto:nd.coordinator@state.nm.us). You may also visit our website at <https://www.env.nm.gov/non-employee-discrimination-complaint-page/> to learn how and where to file a complaint of discrimination.

# PUBLIC NOTICE



Maljamar Gas Plant Office

Friday, February 27, 2020

# PUBLIC NOTICE



U.S Post Office

Friday, February 27, 2020

# PUBLIC NOTICE



Kelly's Cafe, Loco Hills, NM

Friday, February 27, 2020

# PUBLIC NOTICE



U.S. Post Office, Loco Hills, NM

Friday, February 27, 2020

# PUBLIC NOTICE



U.S. Post Office, Loco Hills, NM

Friday, February 27, 2020

# PUBLIC NOTICE

## Submittal of Public Service Announcement – Certification

I, Harley Everhart, the undersigned, certify that on {Wednesday, February 26, 2020}, submitted a public service announcement to KWMW-FM that serves the City of Maljamar, Lea County, New Mexico, in which the source is located and that KWMW-FM 105.1 {**DID NOT RESPOND**\RESPONDED THAT IT WOULD NOT AIR THE ANNOUNCEMENT\RESPONDED THAT IT WOULD AIR THE ANNOUNCEMENT}.

Signed this 26 day of February, 2020.

  
Signature

Wednesday, February 26, 2020,  
Date

Harley Everhart  
Printed Name

EHS Analyst  
Title

Submittal of Public Service Announcement - Certificate,  
Maljamar, NM

Friday, February 27, 2020

# PUBLIC NOTICE



MTD INC - KMMW FM 105.1  
1086 Mechem Drive  
Ruidoso, NM 88345  
575-258-9922 / FAX 575-258-2368

DURANGO MIDSTREAM LLC  
47 CONOCO RD.  
MALJAMAR, NM 88264

## KMMW Order Confirmation

**OrderID:** 0526-003  
**Sponsor:** Frontier Field Services  
**Product:** Frontier Field Services  
**Estimate/PO:**  
**AccountRep:** Will Rooney  
**BillingCycle:** Calendar Month  
**InvoiceType:** Detail  
**Run Dates:** 3/2/2020 - 3/31/2020  
**Items Ordered:** 30  
**Ordered Amount:** \$360.00  
**+8.4375%-Lincoln County, NM Tax Rate** \$30.38  
**Total Amount:** \$390.38

**Scheduled Station(s):** KMMW  
Frontier Field Services

Printed 2/27/2020 12:29:37 PM

Page 1

Run Dates	Run Weeks	Run Times	Mon	Tue	Wed	Thu	Fri	Sat	Sun	Week Total	Length	Description	Avail Type	Copy ID	Qty	Item Cost	Total Cost
01 3/2/2020 - 3/31/2020	All Weeks	06:00 AM - 07:00 PM	1	1	1	1	1	1	1	7	:30	Spot	528		30	12.00	360.00
<b>Calendar Month Projected Billing:</b>																	
	Jan-20	0.00		Feb-20			0.00		Mar-20				360.00		Q1-2020		360.00

Confirmed Correct, Payment Guaranteed

Accepted for KMMW

W105 Radio Station, Lovington, NM

Friday, February 26, 2020



Radio Public Service Announcement

**Notice of Air Quality Permit Application**

Frontier Field Services, LLC intends to submit an application to the New Mexico Environmental Department for a revision to air quality permit 319-M11 for the Maljamar Gas Plant. The expected date of application submittal to the Air Quality Bureau is approximately Wednesday, February 26, 2020. The facility is a natural gas processing plant operating continuously. The Maljamar Gas Plant is at 1001 Conoco Rd., Maljamar, NM 88264, Lea County, latitude 32°48'52" and longitude-103°46'17".

Public notice of this is posted at the Facility's front gate, US Post offices in Maljamar and Loco Hills, New Mexico, and Kelly's Café.

If you have any questions regarding this application, please contact Program Manager, Permit Section, New Mexico Environmental Department, Air Quality Bureau, 525 Camino de los Marquez, Suite 1, Santa Fe, New Mexico 87505. Their phone number is (505) 827-1494.

# PUBLIC NOTICE

**From:** [Harley Everhart](mailto:Harley_Everhart)  
**To:** ["ter1@hobbsnews.com"](mailto:ter1@hobbsnews.com)  
**Cc:** [Harley Everhart](mailto:Harley_Everhart)  
**Subject:** MGP\_NOTICE OF AIR QUALITY PERMIT APPLICATION\_2.26.20  
**Date:** Wednesday, February 26, 2020 10:49:00 AM  
**Attachments:** [image001.png](#)  
[MGP\\_Public Notice Permit App\\_HobbsNewsSun\\_2.26.20.pdf](#)

---

Hobbs News Sun,

Attention Kayla,

Frontier Field Services would like to run a "NOTICE OF AIR QUALITY PERMIT APPLICATION" (See Attachment) for 30 days 6 days/week (no Mondays). We would be requesting a signed affidavit and for tearsheets/pdfs w/headers showing date and title.

Respectfully,

**Harley Everhart | EHS Analyst**  
Mobile 575.513.4922



Hobbs News Sun, Hobbs, NM

Friday, February 26, 2020

Talked to Kayla, she will get back to me ASAP

# Affidavit of Publication

STATE OF NEW MEXICO  
COUNTY OF LEA

I, Daniel Russell, Publisher of the Hobbs News-Sun, a newspaper published at Hobbs, New Mexico, solemnly swear that the clipping attached hereto was published in the regular and entire issue of said newspaper, and not a supplement thereof for a period of 1 issue(s).

Beginning with the issue dated  
March 05, 2020  
and ending with the issue dated  
March 05, 2020.



Publisher

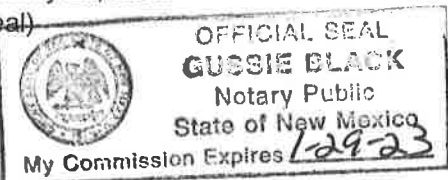
Sworn and subscribed to before me this  
5th day of March 2020.



Business Manager

My commission expires  
January 29, 2023

(Seal)



This newspaper is duly qualified to publish legal notices or advertisements within the meaning of Section 3, Chapter 167, Laws of 1937 and payment of fees for said

LEGAL NOTICE  
MARCH 5, 2020

## NOTICE OF AIR QUALITY PERMIT APPLICATION

Frontier Field Services, LLC announces its application submittal to the New Mexico Environment Department for modification to its air quality permit 0319-M11 for the Maljamar Gas Plant. The expected date of application submittal to the Air Quality Bureau is {Wednesday, February 26, 2020}.

The exact location for the proposed facility known as, The Maljamar Gas Plant, is at 1001 Conoco Rd., Maljamar, NM 88264, Lea County, latitude 32°48'52" and longitude -103°46'17". Directions to the facility as follows: From Highway 82, Head south on Maljamar Rd for 2.7 miles toward Sand Rd. Turn right onto Conoco Rd and the Maljamar gas plant will be on the right in 0.5 miles.

The proposed modification consists of authorizing the use of one (1) new natural gas fired engine, a new amine contactor, and new associated piping components. The estimated maximum quantities of any regulated air contaminant will be as follows in pound per hour (Pph) and tons per year (tpy) and could change slightly during the course of the Department's review:

Pollutant:	Pounds per hour	Tons per year
Total Suspended Particulates (TSP)	1.5 pph	6.7 tpy
PM 10	1.5 pph	6.7 tpy
PM 2.5	1.5 pph	6.7 tpy
Sulfur Dioxide (SO2)	3,319.0 pph	249.8 tpy
Nitrogen Oxides (NOx)	605.2 pph	179.8 tpy
Carbon Monoxide (CO)	1,459.5 pph	152.1 tpy
Volatile Organic Compounds (VOC)	708.6 pph	147.7 tpy
Total sum of all Hazardous Air Pollutants (HAPs)	2.7 pph	11.7 tpy

The standard and maximum operating schedules of the facility will be 24 hours a day, 7 days a week, 52 weeks per year.

The owner/operator of the Facility is: Frontier Field Services, LLC; 125 Mercado St., Suite 201, Durango, CO 81301

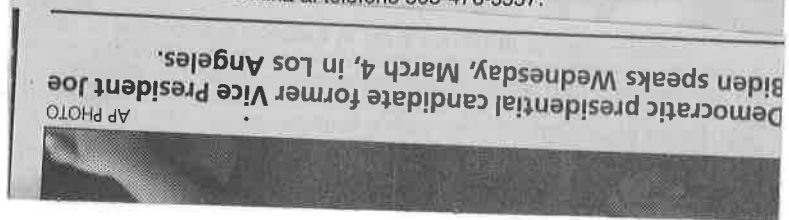
If you have any comments about the construction or operation of this facility, and you want your comments to be made as part of the permit review process, you must submit your comments in writing to this address: Permit Programs Manager; New Mexico Environment Department; Air Quality Bureau; 525 Camino de los Marquez, Suite 1; Santa Fe, New Mexico; 87505-1816; (505) 476-4300; 1 800 224-7009; [https://www.env.nm.gov/aqb/permit/aqb\\_draftpermits.html](https://www.env.nm.gov/aqb/permit/aqb_draftpermits.html). Other comments and questions may be submitted verbally.

Please refer to the company name and site name, or send a copy of this notice along with your comments, since the Department may have not yet received the permit application. Please performed a preliminary review of the application and its air quality impacts, the Department's notice will be published in the legal section of a newspaper circulated near the facility location.

General information about air quality and the permitting process can be found at the Air Quality Bureau's web site. The regulation dealing with public participation in the permit review process is 20.2.72.206 NMAC. This regulation can be found in the "Permits" section of this web site.

### Atencion

Este es un aviso de la oficina de Calidad del Aire del Departamento del Medio Ambiente de Nuevo Mexico, acerca de las emisiones producidas por un establecimiento en esta area. Si usted desea informacion en espanol, por favor llame con esa oficina al telefono 505-476-5557.



67116296

00240300

HARLEY EVERHART  
DURANGO MIDSTREAM  
PO BOX 7  
MALIJAMAAR, NM 88264



# Affidavit of Publication


STATE OF NEW MEXICO  
COUNTY OF LEA

I, Daniel Russell, Publisher of the Hobbs News-Sun, a newspaper published at Hobbs, New Mexico, solemnly swear that the clipping attached hereto was published in the regular and entire issue of said newspaper, and not a supplement thereof for a period of 1 issue(s).

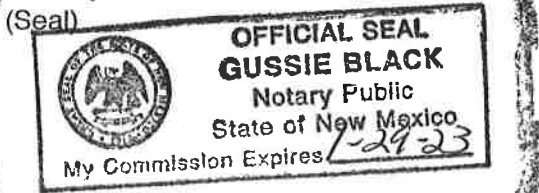
Beginning with the issue dated  
March 28, 2020  
and ending with the issue dated  
March 28, 2020.

  
Publisher

Sworn and subscribed to before me this  
28th day of March 2020.

  
Business Manager

My commission expires  
January 29, 2023



This newspaper is duly qualified to publish legal notices or advertisements within the meaning of Section 3, Chapter 167, Laws of 1937 and payment of fees for said

LEGAL NOTICE  
March 28, 2020

Frontier Field Services, LLC announces its application submittal to the New Mexico Environment Department for modification to its air quality permit 0319-M11 for the Maljamar Gas Plant. The expected date of application submittal to the Air Quality Bureau is April 1, 2020.

The exact location for the proposed facility known as, The Maljamar Gas Plant, is at 1001 Conoco Rd., Maljamar, NM 88264, Lea County, latitude 32°48'52" and longitude-103°46'17". Directions to the facility as follows: From Highway 82, Head south on Maljamar Rd for 2.7 miles toward Sand Rd. Turn right onto Conoco Rd and the Maljamar gas plant will be on the right in 0.5 miles.

The proposed modification consists of authorizing the use of one (1) new natural gas fired engine, a new amine contactor, and new associated piping components.

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PM 10	1.53 pph	6.69 tpy
PM 2.5	1.53 pph	6.69 tpy
Sulfur Dioxide (SO <sub>2</sub> )	3,318.97pph	249.79 tpy
Nitrogen Oxides (NO <sub>x</sub> )	605.02 pph	179.76 tpy
Carbon Monoxide (CO)	1,459.50 pph	152.11 tpy
Volatile Organic Compounds (VOC)	708.61 pph	147.65 tpy
Total sum of all Hazardous Air Pollutants (HAPs)	2.68 pph	11.72 tpy

The standard and maximum operating schedules of the facility will be 24 hours a day, 7 days a week, 52 weeks per year.

The owner/operator of the Facility is: Durango Midstream, LLC; 10077 Grogans Mill Rd, Suite 300, The Woodlands TX 77380

If you have any comments about the construction or operation of this facility, and you want your comments to be made as part of the permit review process, you must submit your comments in writing to this address: Permit Programs Manager; New Mexico Environment Department; Air Quality Bureau; 525 Camino de los Marquez, Suite 1; Santa Fe, New Mexico; 87505-1816; (505) 476-4300; 1 800 224-7009; [https://www.env.nm.gov/aqb/permit/aqb\\_draft\\_permits.html](https://www.env.nm.gov/aqb/permit/aqb_draft_permits.html). Other comments and questions may be submitted verbally.

With your comments, please refer to the company name and facility name, or send a copy of this notice along with your comments. This information is necessary since the Department may have not yet received the permit application. Please include a legible return mailing address. Once the Department has completed its preliminary review of the application and its air quality impacts, the Department's notice will be published in the legal section of a newspaper circulated near the facility location.

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67116296

00241115

HARLEY EVERHART  
DURANGO MIDSTREAM  
PO BOX 7  
MALJAMAR, NM 88264

# Affidavit of Publication

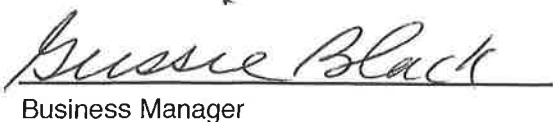
STATE OF NEW MEXICO  
COUNTY OF LEA

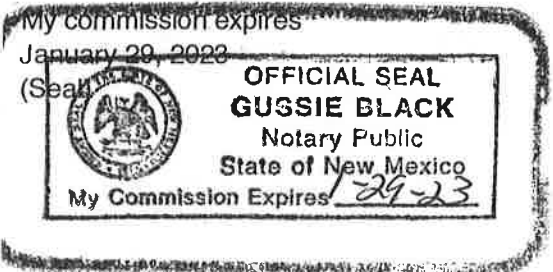
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Beginning with the issue dated  
March 28, 2020  
and ending with the issue dated  
March 28, 2020.

  
Publisher

Sworn and subscribed to before me this  
28th day of March 2020.

  
Business Manager



This newspaper is duly qualified to publish legal notices or advertisements within the meaning of Section 3, Chapter 167, Laws of 1937 and payment of fees for said

## NOTICE OF AIR QUALITY PERMIT A

Frontier Field Services, LLC announces its application submittal to the Environment Department for modification to its air quality permit 031 Gas Plant. The expected date of application submittal to the Air Qual.

The exact location for the proposed facility known as, The Maljamar (Conoco Rd., Maljamar, NM 88264, Lea County, latitude 32°48'52" and Directions to the facility as follows: From Highway 82, Head south or miles toward Sand Rd. Turn right onto Conoco Rd and the Maljamar right in 0.5 miles.

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The estimated maximum quantities of any regulated air contaminant w per hour (pph) and tons per year (tpy) and could change slightly during Department's review:

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PM <sub>10</sub>	1.53 pph
PM <sub>2.5</sub>	1.53 pph
Sulfur Dioxide (SO <sub>2</sub> )	3,318.97 pph
Nitrogen Oxides (NO <sub>x</sub> )	605.02 pph
Carbon Monoxide (CO)	1,459.50 pph
Volatile Organic Compounds (VOC)	708.61 pph
Total sum of all Hazardous Air Pollutants (HAPs)	2.68 pph
Total Suspended Particulates (TSP)	1.53 pph
PM <sub>10</sub>	1.53 pph

The standard and maximum operating schedules of the facility will be week, 52 weeks per year.

The owner/operator of the Facility is: Durango Midstream, LLC; 1007 300, The Woodlands TX 77380

If you have any comments about the construction or operation of this fa comments to be made as part of the permit review process. You must s non-discrimination requirements implemented by 40 C.F.R. Part 7, in Civil Rights Act of 1964, as amended; Section 504 of the Rehabilitat Discrimination Act of 1975, Title IX of the Education Amendments the Federal Water Pollution Control Act Amendments of 1972. If you this notice or any of NMED's non-discrimination programs, policies believe that you have been discriminated against with respect to a NM you may contact: Kristine Yurdin, Non-Discrimination Coordinator, Dr., Suite N4050, P.O. Box 5469, Santa Fe, NM 87502, (505) 827-28 nd.coordinator@state.nm.us. You may also visit our website at https: employee-discrimination-complaint-page/ to learn how and where to discrimination.

67116296

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HARLEY EVERHART  
DURANGO MIDSTREAM  
PO BOX 7  
MALJAMAR, NM 88264

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- 31 Colorad
- 32 Bestsell
- 33 Big faml

1 2 3

[Click to Print](#)**Owner Information**

**Owner # 212517 District 010**  
 FRONTIER FIELD SERVICES LLC  
 ENERGY RESOURCES DBA  
 1900 DALROCK RD  
  
 ROWLETT TX 75088

**Estimated Taxes for Owner**

Estimated Tax Estimated Year used  
 \$987.09 2019

[Calculate Estimated Tax](#)**Recap Value Information**

<b>Central Full Value</b>	0	<b>Full Value</b>	90636
<b>Land Full Value</b>	90636	<b>Taxable Value</b>	30212
<b>Improvements Full value</b>	0	<b>Exempt Value</b>	0
<b>Personal Property Full Value</b>	0	<b>Net Value</b>	30212
<b>Manufactured Home Full Value</b>	0		

**Livestock Full Value**                      0

**Property Information**

**Property Code** 4000031460001

**Book 1226 Page 79 Reception#** 38438

**Physical Address**

**Bldg Apt**

**Section 14 Township 17 S Range 32 E**

3.44 AC LOC SW4

TR BEG N0D1'W 461' & E 125'

FROM SW COR SEC 14, TH N83D32'E

500', S6D28'E 300', S83D32'W

500', N6D28'W 300' TO BEG

\*EASE-125'X25'-BK516 PG 12\*

\*1981-CASWELL, NORMAN-PRT #35089\*

\*9/95-TRANSWESTERN PIPELINE CO\*

\*10/95-TRANSWESTERN GATHERING\*

05/19/18 CONOCOPHILLIPS

PHOTO 6/15/18

**Property Value Information**

150 Non-Residential Land 3.44 0.00 12771

**Property Information**



**Property Code** 4000202106001  
**Book** 1226 **Page** 75 **Reception#** 38438  
**Physical Address**  
**Bldg Apt**  
**Section** 28 **Township** 17 S **Range** 32 E

20.97 AC LOC NE4 & NW4  
TRACT B  
TR BEG S89D31'42"W 585.84' &  
S00D54'W 20.77' FROM THE COMMON  
CORNER SEC 21 & SEC 28, TH  
N00D54'E 748', S85D48'E 649',  
N40D00'E 218', S57D20'E 125',  
S00D79'02"E 1120', N89D22'74"W  
659.93', N03D00'E 53', N53D57'02"W  
202.18', N03D00'W 144', S88D00'W  
82.50' TO BEG  
5/19/03-CONOCOPHILLIPS COMPANY  
PRT #33991  
GAS PLANT CENTRAL ASSESSED  
ON #205519

**Property Value Information**

150 Non-Residential Land 20.97 0.00 77865



**RECEIVED**

By CARLOS HERNANDEZ at 11:56 am, Nov 05, 2019

October 23, 2019

Frontier FS – Durango, LLC  
2002 Timberloch Place  
Suite 110  
The Woodlands, TX 77380

RE: 2019 Lea County, New Mexico “Non-Contested” Tax Bills

The enclosed 2019 Lea County, NM tax bills represent only the “**Non-Contested**” portion of the value for the assets located in Lea County. The taxes due for the “Contested” portion of the value will be processed and forwarded to you for payment as soon as we receive them.

We apologize for any inconvenience this may cause.

If you have any questions or need additional information, please feel free to contact our office.

Sincerely,

Melinda Shaw  
KE Andrews

/ms  
Enclosure

AUSTIN • DALLAS • DENVER

1900 DALROCK ROAD • ROWLETT, TX 75068 • T (469) 298-1594 • F (469) 298-1595 • keatax.com



FOR TAX YEAR 2019  
ASSESSING AUTHORITY Lea

REMIT TO Lea County  
100 N. Main Ave., Suite 3C  
Lovington, NM88260

TO Mr. Mke Urban  
CFO  
Frontier FS - Durango, LLC  
2002 Timberloch Place  
Suite 110  
The Woodlands, TX77380

DATE PRINTED 10/29/2019

JURISDICTION	STATEMENT NO.	PROPERTY DESCRIPTION	AMOUNT DUE
<b>Energy Services</b>			
Lea County Tax District 010	2019-0011273	Maljamar Gas Plant & Additions 0205519	822,465.60
Lea County Tax District 010	2019-0011273	Office Bldg 50301 Tousaint 0076640	1,805.77
Lea County Tax District 010	2019-0011273	Pipeline 0205519.A	199,941.66
<b>Real Estate</b>			
Lea County Tax District 010	2019-0011274	20.97 ac Maljamar Gas Plant 0212517.B	823.30
Lea County Tax District 010	2019-0011274	3.44 ac Maljamar Gas Plant 0212517.A	135.03

TAXES BECOME DELINQUENT ON:

PAGE 1

TOTAL TAXES DUE \$ 1,025,171.36

**OWNER NAME:**

2019-0011273  
 FRONTIER FIELD SERVICES LLC  
 1900 DALROCK RD  
 ROWLETT TX 75088-75088

**2019 TAX BILL**

Remit to: **SUSAN MARINOVICH**  
**LEA COUNTY TREASURER**  
 100 N. MAIN AVE., SUITE 3C  
 LOVINGTON, NEW MEXICO 88260-4000  
 (575) 396-8643

**BILL NO. >** 2019-0011273

**OWNER NO. >** 0205519

Your mortgage company may be paying this bill:  
 However, it is the responsibility of the property owner to ensure property taxes are paid  
 Owners with mortgages should contact lender to determine responsibility for payment of tax.

NET TAXABLE VALUES WILL BE ALLOCATED TO THE GOVERNMENTAL UNITS IN SCHOOL DISTRICT **010**

PROPERTY # P 020 551 908 26F 150437  
 CAB # 410-161  
 GAS PLANT  
 LAND LOC ON #212517  
 2019 UNPROTESTED VALUE

Tax Rates are expressed in Dollars per Thousand. Taxable Value is 33 1/3% of Full Value.

DISTRIBUTION	TAXABLE VALUE	TAX RATES	TAX AMOUNTS	NON-RESIDENTIAL	FULL VALUE	TAXABLE VALUE
STATE -N/R	31348342	1.360	42633.75	CENTRAL	94045026	31348342
COUNTY -N/R	31348342	10.600	332292.43			
SCHOOL -N/R	31348342	11.712	367151.77			
NON-RES SUBTOTAL	31348342	23.672	742077.95			
HOSPITAL	31348342	4.000	125393.37			
JUNIOR COLLEGE	31348342	5.000	156741.71			
					<b>NET =&gt;</b>	31348342
				RESIDENTIAL	FULL VALUE	TAXABLE VALUE
					<b>NET =&gt;</b>	
				TOTAL NET VALUE OF RESIDENTIAL AND NON-RESIDENTIAL		31348342
						<b>\$1,024,213.03</b>

**TOTAL 2019 TAX DUE**

PRIOR TAXES, IF ANY, MUST BE PAID BEFORE ACCEPTING CURRENT YEAR PAYMENT.

YEAR AND BILL NO.	TAX	INTEREST	PENALTY	LATE	AMOUNT DUE

THE FIRST HALF PAYMENT IS DUE: NOVEMBER 10, 2019 AND IS DELINQUENT AFTER: DECEMBER 10, 2019.

THE SECOND HALF PAYMENT IS DUE: APRIL 10, 2020 AND IS DELINQUENT AFTER: MAY 10, 2020.

**SECOND HALF PAYMENT COUPON**

THIS BILL IS DUE BY **APRIL 10, 2020**. TO AVOID ACCRUAL OF INTEREST AND PENALTY CHARGES, DETACH THIS COUPON AND REMIT WITH PAYMENT BY: **MAY 10, 2020**.

PLEASE MAKE CHECKS PAYABLE TO: **LEA COUNTY TREASURER**  
 100 N Main Ave Suite 3C  
 Lovington, NM 88260-4000

PRINT THIS BILL NO. AND OWNER NO. ON YOUR CHECK

2019-0011273  
 0205519

**2019 SECOND HALF \$512,106.51**

YOUR CANCELLED CHECK IS YOUR RECEIPT UNLESS YOU PROVIDE US WITH A SELF-ADDRESSED STAMPED ENVELOPE FOR YOUR RETURNED RECEIPT.

You may pay online at [www.leacounty.net](http://www.leacounty.net) Or Call (575) 396-8643  
 A nominal fee is charged for this service.



057430



FRONTIER FIELD SERVICES LLC  
 1900 DALROCK RD  
 ROWLETT TX 75088-75088

29836

PLEASE RETAIN THE ABOVE BILL FOR YOUR RECORDS

PLEASE CHECK HERE AND USE THE BACK OF THIS COUPON FOR ADDRESS CHANGE.

**FIRST HALF OR FULL YEAR PAYMENT COUPON**

THIS BILL IS DUE BY **NOVEMBER 10, 2019**. TO AVOID ACCRUAL OF INTEREST AND PENALTY CHARGES, DETACH THIS COUPON AND REMIT WITH PAYMENT BY: **DECEMBER 10, 2019**.

PLEASE MAKE CHECKS PAYABLE TO: **LEA COUNTY TREASURER**  
 100 N Main Ave Suite 3C  
 Lovington, NM 88260-4000

PRINT THIS BILL NO. AND OWNER NO. ON YOUR CHECK

2019-0011273  
 0205519

**2019 FIRST HALF & PRIOR TAXES \$512,106.52**  
The first half includes prior taxes if any.

**2019 TOTAL CURRENT & PRIOR TAXES FULL PAYMENT AMOUNT \$1,024,213.03**

YOUR CANCELLED CHECK IS YOUR RECEIPT UNLESS YOU PROVIDE US WITH A SELF-ADDRESSED STAMPED ENVELOPE FOR YOUR RETURNED RECEIPT.

You may pay online at [www.leacounty.net](http://www.leacounty.net) Or Call (575) 396-8643  
 A nominal fee is charged for this service.



FRONTIER FIELD SERVICES LLC  
 1900 DALROCK RD  
 ROWLETT TX 75088-75088

PLEASE CHECK HERE AND USE THE BACK OF THIS COUPON FOR ADDRESS CHANGE.

**OWNER NAME:**

2019-0011274  
 FRONTIER FIELD SERVICES LLC  
 ENERGY RESOURCES DBA  
 1900 DALROCK RD  
 ROWLETT TX 75088-75088



**2019 TAX BILL**

Remit to: **SUSAN MARINOVICH**  
 LEA COUNTY TREASURER  
 100 N. MAIN AVE., SUITE 3C  
 LOVINGTON, NEW MEXICO 88260-4000  
 (575) 396-8643

**BILL NO. >** 2019-0011274

**OWNER NO. >** 0212517

Your mortgage company may be paying this bill:  
 However, it is the responsibility of the property owner to ensure property taxes are paid  
 Owners with mortgages should contact lender to determine responsibility for payment of tax.

NET TAXABLE VALUES WILL BE ALLOCATED TO THE GOVERNMENTAL UNITS IN SCHOOL DISTRICT **> 010**

PROPERTY # 4 000 031 460 001  
 SECTION-14 TOWNSHIP-17S RANGE-32E  
 3.44 AC LOC SW4  
 TR BEG N0D1'W 461' & E 125'  
 FROM SW COR SEC 14, TH N83D32'E  
 500', S6D28'E 300', S83D32'W  
 500', N6D28'W 300' TO BEG  
 \*EASE-125'X25'-BK516 PG 12\*  
 \*1981-CASWELL, NORMAN-PRT #35089\*  
 \*9/95-TRANSWESTERN PIPELINE CO\*  
 \*10/95-TRANSWESTERN GATHERING\*  
 05/19/18 CONOCOPHILLIPS  
 PHOTO 6/15/18  
 PROPERTY # 4 000 202 106 001  
 SECTION-28 TOWNSHIP-17S RANGE-32E  
 20.97 AC LOC NE4 & NW4

TRACT B  
 TR BEG S89D31'42'W 585.84' &  
 S00D54'W 20.77' FROM THE COMMON  
 CORNER SEC 21 & SEC 28, TH  
 N00D54'E 748', S85D48'E 649',  
 N40D00'E 218', S57D20'E 125',  
 S00D79'02'E 1120', N89D22'74'W  
 659.93', N03D00'E 53', N53D57'02'W  
 202.18', N03D00'W 144', S88D00'W  
 82.50' TO BEG  
 5/19/03-CONOCOPHILLIPS COMPANY  
 PRT #33991  
 GAS PLANT CENTRAL ASSESSED  
 ON #205519

Tax Rates are expressed in Dollars per Thousand. Taxable Value is 33 1/3% of Full Value.

DISTRIBUTION	TAXABLE VALUE	TAX RATES	TAX AMOUNTS	NON-RESIDENTIAL	FULL VALUE	TAXABLE VALUE
STATE -N/R	29332	1.360	39.89	LAND	87996	29332
COUNTY -N/R	29332	10.600	310.92			
SCHOOL -N/R	29332	11.712	343.53			
NON-RES SUBTOTAL	29332	23.672	694.34			
HOSPITAL	29332	4.000	117.33			
JUNIOR COLLEGE	29332	5.000	146.66			
					<b>NET =&gt;</b>	29332
				RESIDENTIAL	FULL VALUE	TAXABLE VALUE
					<b>NET =&gt;</b>	
				TOTAL NET VALUE OF RESIDENTIAL AND NON-RESIDENTIAL		29332
					<b>\$958.33</b>	<b>TOTAL 2019 TAX DUE</b>

PRIOR TAXES, IF ANY, MUST BE PAID BEFORE ACCEPTING CURRENT YEAR PAYMENT.

YEAR AND BILL NO.	TAX	INTEREST	PENALTY	LATE	AMOUNT DUE

THE FIRST HALF PAYMENT IS DUE: NOVEMBER 10, 2019 AND IS DELINQUENT AFTER: DECEMBER 10, 2019.

THE SECOND HALF PAYMENT IS DUE: APRIL 10, 2020 AND IS DELINQUENT AFTER: MAY 10, 2020.

**SECOND HALF PAYMENT COUPON**

THIS BILL IS DUE BY APRIL 10, 2020. TO AVOID ACCRUAL OF INTEREST AND PENALTY CHARGES, DETACH THIS COUPON AND REMIT WITH PAYMENT BY: MAY 10, 2020.

PLEASE MAKE CHECKS PAYABLE TO: LEA COUNTY TREASURER  
 100 N Main Ave Suite 3C  
 Lovington, NM 88260-4000

PRINT THIS BILL NO. AND OWNER NO. ON YOUR CHECK  
 2019-0011274  
 0212517

2019 SECOND HALF \$479.16

YOUR CANCELLED CHECK IS YOUR RECEIPT UNLESS YOU PROVIDE US WITH A SELF-ADDRESSED STAMPED ENVELOPE FOR YOUR RETURNED RECEIPT.

You may pay online at [www.leacounty.net](http://www.leacounty.net) Or Call (575) 396-8643  
 A nominal fee is charged for this service.



057431



FRONTIER FIELD SERVICES LLC  
 ENERGY RESOURCES DBA  
 1900 DALROCK RD  
 ROWLETT TX 75088-75088

29837

PLEASE RETAIN THE ABOVE BILL FOR YOUR RECORDS

PLEASE CHECK HERE AND USE THE BACK OF THIS COUPON FOR ADDRESS CHANGE.

**FIRST HALF OR FULL YEAR PAYMENT COUPON**

THIS BILL IS DUE BY NOVEMBER 10, 2019. TO AVOID ACCRUAL OF INTEREST AND PENALTY CHARGES, DETACH THIS COUPON AND REMIT WITH PAYMENT BY: DECEMBER 10, 2019.

PLEASE MAKE CHECKS PAYABLE TO: LEA COUNTY TREASURER  
 100 N Main Ave Suite 3C  
 Lovington, NM 88260-4000

PRINT THIS BILL NO. AND OWNER NO. ON YOUR CHECK  
 2019-0011274  
 0212517

2019 FIRST HALF & PRIOR TAXES \$479.17  
The first half includes prior taxes if any.

2019 TOTAL CURRENT & PRIOR TAXES FULL PAYMENT AMOUNT \$958.33

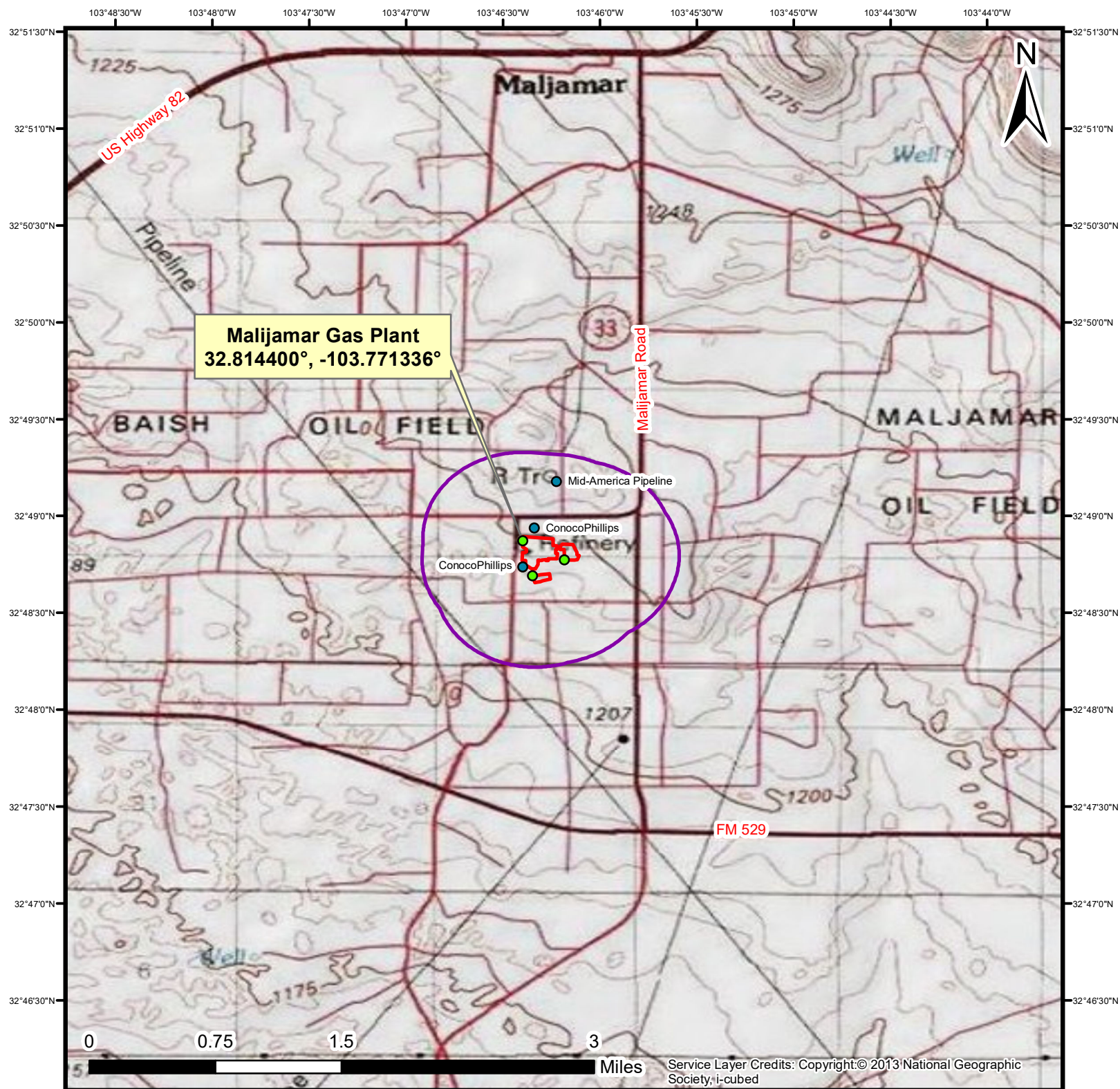
YOUR CANCELLED CHECK IS YOUR RECEIPT UNLESS YOU PROVIDE US WITH A SELF-ADDRESSED STAMPED ENVELOPE FOR YOUR RETURNED RECEIPT.

You may pay online at [www.leacounty.net](http://www.leacounty.net) Or Call (575) 396-8643  
 A nominal fee is charged for this service.



FRONTIER FIELD SERVICES LLC  
 ENERGY RESOURCES DBA  
 1900 DALROCK RD  
 ROWLETT TX 75088-75088

PLEASE CHECK HERE AND USE THE BACK OF THIS COUPON FOR ADDRESS CHANGE.



**Legend**

- Project Boundary
- 0.5 Mile Buffer
- Restricted Public Access
- Other Facilities

**MALIJAMAR GAS PLANT  
TOPOGRAPHIC MAP  
FRONTIER FIELD SERVICES, LLC.  
LEA COUNTY, NEW MEXICO**



20465 State Highway 249, Suite 300  
Houston, TX 77070

Drawing No.: 1  
Date: 3/27/2020  
Project No.: 20121.00A  
Drawn By: AHasse  
Revision No.: 2

*Note: This is not a  
Property Boundary Survey*

Service Layer Credits: Copyright © 2013 National Geographic Society, i-cubed

**Letters Sent to Owners of Record**

Land Owner	Street Address	City	State	Zip
Mid America Pipeline Company, LLC	1100 Louisiana St., Suite 1000	Houston	TX	77002
Conoco Phillips	925 N Eldridge Parkway	Houston	TX	77079

**Letters Sent to Counties, Municipalities, and Indian Tribes**

Adressee	Street Address	City	State	Zip
Eddy County	101 W Greens Street	Carlsbad	NM	88220
Chaves County	1 St. Mary's Place	Roswell	NM	88203
Lea County	100 Main Street, #4	Lovington	NM	88260

7017 2400 0000 6784 4738

U.S. Postal Service™  
**CERTIFIED MAIL® RECEIPT**  
Domestic Mail Only

For delivery information, visit our website at [www.usps.com](http://www.usps.com)®.

**OFFICIAL USE**

Certified Mail Fee	\$
Extra Services & Fees (check box, add fee as appropriate)	
<input type="checkbox"/> Return Receipt (hardcopy)	\$
<input type="checkbox"/> Return Receipt (electronic)	\$
<input type="checkbox"/> Certified Mail Restricted Delivery	\$
<input type="checkbox"/> Adult Signature Required	\$
<input type="checkbox"/> Adult Signature Restricted Delivery	\$
Postage	\$
Total Postage and Fees	\$



Sent To **CONOCO PHILLIPS**  
 Street and Apt. No., or PO Box No. **725 N. ELDRIDGE PKWY**  
 City, State, ZIP+4® **HOUSTON, TX 77079**

PS Form 3800, April 2015 PSN 7530-02-000-9047 See Reverse for Instructions

7017 2400 0000 6784 4745

U.S. Postal Service™  
**CERTIFIED MAIL® RECEIPT**  
Domestic Mail Only

For delivery information, visit our website at [www.usps.com](http://www.usps.com)®.

**OFFICIAL USE**

Certified Mail Fee	\$
Extra Services & Fees (check box, add fee as appropriate)	
<input type="checkbox"/> Return Receipt (hardcopy)	\$
<input type="checkbox"/> Return Receipt (electronic)	\$
<input type="checkbox"/> Certified Mail Restricted Delivery	\$
<input type="checkbox"/> Adult Signature Required	\$
<input type="checkbox"/> Adult Signature Restricted Delivery	\$
Postage	\$
Total Postage and Fees	\$



Sent To **MID-AMERICA PIPELINE CO.**  
 Street and Apt. No., or PO Box No. **1100 LOUISIANAST., STE 1000**  
 City, State, ZIP+4® **HOUSTON, TX 77002**

PS Form 3800, April 2015 PSN 7530-02-000-9047 See Reverse for Instructions




**SENDER: COMPLETE THIS SECTION**

- Complete items 1, 2, and 3.
- Print your name and address on the reverse so that we can return the card to you.
- Attach this card to the back of the mailpiece, or on the front if space permits.

1. Article Addressed to:

**Eddy County**  
**101 W Greens Street**  
**Carlsbad, NM, 88220**



9590 9403 0571 5183 7478 89

2. Article Number (Transfer from service label)  
 7015 1660 0000 8150 3913

PS Form 3811, April 2015 PSN 7530-02-000-9053

**COMPLETE THIS SECTION ON DELIVERY**

A. Signature  
 X *Jana D...*  Agent  Addressee

B. Received by (Printed Name) C. Date of Delivery  
*Jana D...* 2-28-2020

D. Is delivery address different from item 1?  Yes  
 If YES, enter delivery address below:  No

3. Service Type  Priority Mail Express®  
 Adult Signature  Registered Mail™  
 Adult Signature Restricted Delivery  Registered Mail Restricted Delivery  
 Certified Mail®  Return Receipt for Merchandise  
 Certified Mail Restricted Delivery  Signature Confirmation™  
 Collect on Delivery  Signature Confirmation Restricted Delivery  
 Collect on Delivery Restricted Delivery  Insured Mail  
 Insured Mail Restricted Delivery (over \$500)

Domestic Return Receipt

**SENDER: COMPLETE THIS SECTION**

- Complete items 1, 2, and 3.
- Print your name and address on the reverse so that we can return the card to you.
- Attach this card to the back of the mailpiece, or on the front if space permits.

1. Article Addressed to:

**Chavis County**  
**1 St Mary's LI**  
**Roswell, NM, 88203**



9590 9403 0571 5183 7479 02

2. Article Number (Transfer from service label)  
 7015 1660 0000 8150 3920

PS Form 3811, April 2015 PSN 7530-02-000-9053

**COMPLETE THIS SECTION ON DELIVERY**

A. Signature  
 X *A. K...*  Agent  Addressee

B. Received by (Printed Name) C. Date of Delivery  
 A. K... 2/28/2020

D. Is delivery address different from item 1?  Yes  
 If YES, enter delivery address below:  No

3. Service Type  Priority Mail Express®  
 Adult Signature  Registered Mail™  
 Adult Signature Restricted Delivery  Registered Mail Restricted Delivery  
 Certified Mail®  Return Receipt for Merchandise  
 Certified Mail Restricted Delivery  Signature Confirmation™  
 Collect on Delivery  Signature Confirmation Restricted Delivery  
 Collect on Delivery Restricted Delivery  Insured Mail  
 Insured Mail Restricted Delivery (over \$500)


Domestic Return Receipt

**SENDER: COMPLETE THIS SECTION**

- Complete items 1, 2, and 3.
- Print your name and address on the reverse so that we can return the card to you.
- Attach this card to the back of the mailpiece, or on the front if space permits.

1. Article Addressed to:

**Lea County**  
**100 Main St #4**  
**Lovington, NM, 88260**



9590 9403 0571 5183 7478 96

2. Article Number (Transfer from service label)  
 7015 1660 0000 8150 3906

PS Form 3811, April 2015 PSN 7530-02-000-9053

**COMPLETE THIS SECTION ON DELIVERY**

A. Signature  
 X *Z. Jacobs*  Agent  Addressee

B. Received by (Printed Name) C. Date of Delivery  
 Z. Jacobs

D. Is delivery address different from item 1?  Yes  
 If YES, enter delivery address below:  No

3. Service Type  Priority Mail Express®  
 Adult Signature  Registered Mail™  
 Adult Signature Restricted Delivery  Registered Mail Restricted Delivery  
 Certified Mail®  Return Receipt for Merchandise  
 Certified Mail Restricted Delivery  Signature Confirmation™  
 Collect on Delivery  Signature Confirmation Restricted Delivery  
 Collect on Delivery Restricted Delivery  Insured Mail  
 Insured Mail Restricted Delivery (over \$500)

Domestic Return Receipt

3/3/2020

CERTIFIED MAIL 7017 2400 0000 6784 4738

RETURN RECEIPT REQUESTED (certified mail is required, return receipt is optional)

To Whom it May Concern,

Frontier Field Services, LLC announces its application submittal to the New Mexico Environment Department for modification to its air quality permit 0319-M11 for the Maljamar Gas Plant. The expected date of application submittal to the Air Quality Bureau is [3/09/2020].

The exact location for the proposed facility known as, The Maljamar Gas Plant, is at 1001 Conoco Rd., Maljamar, NM 88264, Lea County, latitude 32°48'52" and longitude-103°46'17". Directions to the facility as follows: From Highway 82, Head south on Maljamar Rd for 2.7 miles toward Sand Rd. Turn right onto Conoco Rd and the Maljamar gas plant will be on the right in 0.5 miles.

The proposed modification consists of authorizing the use of one (1) new natural gas fired engine, a new amine contactor, and new associated piping components.

The estimated maximum quantities of any regulated air contaminant will be as follows in pound per hour (pph) and tons per year (tpy) and may change slightly during the course of the Department's review:

Pollutant:	Pounds per hour	Tons per year
Total Suspended Particulates (TSP)	1.5 pph	6.7 tpy
PM <sub>10</sub>	1.5 pph	6.7 tpy
PM <sub>2.5</sub>	1.5 pph	6.7 tpy
Sulfur Dioxide (SO <sub>2</sub> )	3,319.0 pph	249.8 tpy
Nitrogen Oxides (NO <sub>x</sub> )	605.2 pph	179.8 tpy
Carbon Monoxide (CO)	1,459.5 pph	152.1 tpy
Volatile Organic Compounds (VOC)	708.6 pph	147.7 tpy
Total sum of all Hazardous Air Pollutants (HAPs)	2.7 pph	11.7 tpy

The standard and maximum operating schedules of the facility will be 24 hours a day, 7 days a week, 52 weeks per year.

The owner/operator of the Facility is: Frontier Field Services, LLC; 125 Mercado St., Suite 201, Durango, CO 81301

If you have any comments about the construction or operation of this facility, and you want your comments to be made as part of the permit review process, you must submit your comments in writing to this address: Permit Programs Manager; New Mexico Environment Department; Air Quality Bureau; 525 Camino de los Marquez, Suite 1; Santa Fe, New Mexico; 87505-1816; (505) 476-4300; 1 800 224-7009; [https://www.env.nm.gov/aqb/permit/aqb\\_draft\\_permits.html](https://www.env.nm.gov/aqb/permit/aqb_draft_permits.html). Other comments and questions may be submitted verbally.

Please refer to the company name and facility name, or send a copy of this notice along with your comments, since the Department may have not yet received the permit application. Please include a legible return mailing address with your comments. Once the Department has performed a preliminary review of the application and its air quality impacts, the Department's notice will be published in the legal section of a newspaper circulated near the facility location.

**Atención**

Este es un aviso de la oficina de Calidad del Aire del Departamento del Medio Ambiente de Nuevo México, acerca de las emisiones producidas por un establecimiento en esta área. Si usted desea información en español, por favor comuníquese con esa oficina al teléfono 505-476-5557.

Sincerely,  
Frontier Field Services, LLC  
125 Mercado St., Suite 201  
Durango, CO 81301

**Notice of Non-Discrimination**

NMED does not discriminate on the basis of race, color, national origin, disability, age or sex in the administration of its programs or activities, as required by applicable laws and regulations. NMED is responsible for coordination of compliance efforts and receipt of inquiries concerning non-discrimination requirements implemented by 40 C.F.R. Part 7, including Title VI of the Civil Rights Act of 1964, as amended; Section 504 of the Rehabilitation Act of 1973; the Age Discrimination Act of 1975, Title IX of the Education Amendments of 1972, and Section 13 of the Federal Water Pollution Control Act Amendments of 1972. If you have any questions about this notice or any of NMED's non-discrimination programs, policies or procedures, or if you believe that you have been discriminated against with respect to a NMED program or activity, you may contact: Kristine Yurdin, Non-Discrimination Coordinator, NMED, 1190 St. Francis Dr., Suite N4050, P.O. Box 5469, Santa Fe, NM 87502, (505) 827-2855, [nd.coordinator@state.nm.us](mailto:nd.coordinator@state.nm.us). You may also visit our website at <https://www.env.nm.gov/non-employee-discrimination-complaint-page/> to learn how and where to file a complaint of discrimination.

3/3/2020

CERTIFIED MAIL 7017 2400 0000 6784 4745

RETURN RECEIPT REQUESTED (certified mail is required, return receipt is optional)

To Whom it May Concern,

Frontier Field Services, LLC announces its application submittal to the New Mexico Environment Department for modification to its air quality permit 0319-M11 for the Maljamar Gas Plant. The expected date of application submittal to the Air Quality Bureau is [3/09/2020].

The exact location for the proposed facility known as, The Maljamar Gas Plant, is at 1001 Conoco Rd., Maljamar, NM 88264, Lea County, latitude 32°48'52" and longitude-103°46'17". Directions to the facility as follows: From Highway 82, Head south on Maljamar Rd for 2.7 miles toward Sand Rd. Turn right onto Conoco Rd and the Maljamar gas plant will be on the right in 0.5 miles.

The proposed modification consists of authorizing the use of one (1) new natural gas fired engine, a new amine contactor, and new associated piping components.

The estimated maximum quantities of any regulated air contaminant will be as follows in pound per hour (pph) and tons per year (tpy) and may change slightly during the course of the Department's review:

Pollutant:	Pounds per hour	Tons per year
Total Suspended Particulates (TSP)	1.5 pph	6.7 tpy
PM <sub>10</sub>	1.5 pph	6.7 tpy
PM <sub>2.5</sub>	1.5 pph	6.7 tpy
Sulfur Dioxide (SO <sub>2</sub> )	3,319.0 pph	249.8 tpy
Nitrogen Oxides (NO <sub>x</sub> )	605.2 pph	179.8 tpy
Carbon Monoxide (CO)	1,459.5 pph	152.1 tpy
Volatile Organic Compounds (VOC)	708.6 pph	147.7 tpy
Total sum of all Hazardous Air Pollutants (HAPs)	2.7 pph	11.7 tpy

The standard and maximum operating schedules of the facility will be 24 hours a day, 7 days a week, 52 weeks per year.

The owner/operator of the Facility is: Frontier Field Services, LLC; 125 Mercado St., Suite 201, Durango, CO 81301

If you have any comments about the construction or operation of this facility, and you want your comments to be made as part of the permit review process, you must submit your comments in writing to this address: Permit Programs Manager; New Mexico Environment Department; Air Quality Bureau; 525 Camino de los Marquez, Suite 1; Santa Fe, New Mexico; 87505-1816; (505) 476-4300; 1 800 224-7009; [https://www.env.nm.gov/aqb/permit/aqb\\_draft\\_permits.html](https://www.env.nm.gov/aqb/permit/aqb_draft_permits.html). Other comments and questions may be submitted verbally.

Please refer to the company name and facility name, or send a copy of this notice along with your comments, since the Department may have not yet received the permit application. Please include a legible return mailing address with your comments. Once the Department has performed a preliminary review of the application and its air quality impacts, the Department's notice will be published in the legal section of a newspaper circulated near the facility location.

**Atención**

Este es un aviso de la oficina de Calidad del Aire del Departamento del Medio Ambiente de Nuevo México, acerca de las emisiones producidas por un establecimiento en esta área. Si usted desea información en español, por favor comuníquese con esa oficina al teléfono 505-476-5557.

Sincerely,  
Frontier Field Services, LLC  
125 Mercado St., Suite 201  
Durango, CO 81301

**Notice of Non-Discrimination**

NMED does not discriminate on the basis of race, color, national origin, disability, age or sex in the administration of its programs or activities, as required by applicable laws and regulations. NMED is responsible for coordination of compliance efforts and receipt of inquiries concerning non-discrimination requirements implemented by 40 C.F.R. Part 7, including Title VI of the Civil Rights Act of 1964, as amended; Section 504 of the Rehabilitation Act of 1973; the Age Discrimination Act of 1975, Title IX of the Education Amendments of 1972, and Section 13 of the Federal Water Pollution Control Act Amendments of 1972. If you have any questions about this notice or any of NMED's non-discrimination programs, policies or procedures, or if you believe that you have been discriminated against with respect to a NMED program or activity, you may contact: Kristine Yurdin, Non-Discrimination Coordinator, NMED, 1190 St. Francis Dr., Suite N4050, P.O. Box 5469, Santa Fe, NM 87502, (505) 827-2855, [nd.coordinator@state.nm.us](mailto:nd.coordinator@state.nm.us). You may also visit our website at <https://www.env.nm.gov/non-employee-discrimination-complaint-page/> to learn how and where to file a complaint of discrimination.

**{Wednesday, February 26, 2020},**

**CERTIFIED MAIL 7015 1660 0000 8150 3913**

**RETURN RECEIPT REQUESTED**

Eddy County  
101 W Greens Street  
Carlsbad, NM, 88220

To Whom it May Concern,

Frontier Field Services, LLC announces its application submittal to the New Mexico Environment Department for modification to its air quality permit 0319-M11 for the Maljamar Gas Plant. The expected date of application submittal to the Air Quality Bureau is **{Wednesday, February 26, 2020}**.

The exact location for the proposed facility known as, The Maljamar Gas Plant, is at 1001 Conoco Rd., Maljamar, NM 88264, Lea County, latitude 32°48'52" and longitude-103°46'17". Directions to the facility as follows: From Highway 82, Head south on Maljamar Rd for 2.7 miles toward Sand Rd. Turn right onto Conoco Rd and the Maljamar gas plant will be on the right in 0.5 miles.

The proposed modification consists of authorizing the use of one (1) new natural gas fired engine, a new amine contactor, and new associated piping components.

The estimated maximum quantities of any regulated air contaminant will be as follows in pound per hour (pph) and tons per year (tpy) and may change slightly during the course of the Department's review:

Pollutant:	Pounds per hour	Tons per year
Total Suspended Particulates (TSP)	1.5 pph	6.7 tpy
PM <sub>10</sub>	1.5 pph	6.7 tpy
PM <sub>2.5</sub>	1.5 pph	6.7 tpy
Sulfur Dioxide (SO <sub>2</sub> )	3,319.0 pph	249.8 tpy
Nitrogen Oxides (NO <sub>x</sub> )	605.2 pph	179.8 tpy
Carbon Monoxide (CO)	1,459.5 pph	152.1 tpy
Volatile Organic Compounds (VOC)	708.6 pph	147.7 tpy
Total sum of all Hazardous Air Pollutants (HAPs)	2.7 pph	11.7 tpy

The standard and maximum operating schedules of the facility will be 24 hours a day, 7 days a week, 52 weeks per year.

The owner/operator of the Facility is: Frontier Field Services, LLC; 125 Mercado St., Suite 201, Durango, CO 81301

If you have any comments about the construction or operation of this facility, and you want your comments to be made as part of the permit review process, you must submit your comments in

writing to this address: Permit Programs Manager; New Mexico Environment Department; Air Quality Bureau; 525 Camino de los Marquez, Suite 1; Santa Fe, New Mexico; 87505-1816; (505) 476-4300; 1 800 224-7009; [https://www.env.nm.gov/aqb/permit/aqb\\_draft\\_permits.html](https://www.env.nm.gov/aqb/permit/aqb_draft_permits.html). Other comments and questions may be submitted verbally.

Please refer to the company name and facility name, or send a copy of this notice along with your comments, since the Department may have not yet received the permit application. Please include a legible return mailing address with your comments. Once the Department has performed a preliminary review of the application and its air quality impacts, the Department's notice will be published in the legal section of a newspaper circulated near the facility location.

**Atención**

Este es un aviso de la oficina de Calidad del Aire del Departamento del Medio Ambiente de Nuevo México, acerca de las emisiones producidas por un establecimiento en esta área. Si usted desea información en español, por favor comuníquese con esa oficina al teléfono 505-476-5557.

Sincerely,  
Frontier Field Services, LLC  
125 Mercado St., Suite 201  
Durango, CO 81301

**Notice of Non-Discrimination**

NMED does not discriminate on the basis of race, color, national origin, disability, age or sex in the administration of its programs or activities, as required by applicable laws and regulations. NMED is responsible for coordination of compliance efforts and receipt of inquiries concerning non-discrimination requirements implemented by 40 C.F.R. Part 7, including Title VI of the Civil Rights Act of 1964, as amended; Section 504 of the Rehabilitation Act of 1973; the Age Discrimination Act of 1975, Title IX of the Education Amendments of 1972, and Section 13 of the Federal Water Pollution Control Act Amendments of 1972. If you have any questions about this notice or any of NMED's non-discrimination programs, policies or procedures, or if you believe that you have been discriminated against with respect to a NMED program or activity, you may contact: Kristine Yurdin, Non-Discrimination Coordinator, NMED, 1190 St. Francis Dr., Suite N4050, P.O. Box 5469, Santa Fe, NM 87502, (505) 827-2855, [nd.coordinator@state.nm.us](mailto:nd.coordinator@state.nm.us). You may also visit our website at <https://www.env.nm.gov/non-employee-discrimination-complaint-page/> to learn how and where to file a complaint of discrimination.

**{Wednesday, February 26, 2020},**

CERTIFIED MAIL 7015 1660 0000 8150 3906  
RETURN RECEIPT REQUESTED

Lea County  
100 Main St #4  
Lovington, NM, 88260

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# Section 10

## Written Description of the Routine Operations of the Facility

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**A written description of the routine operations of the facility.** Include a description of how each piece of equipment will be operated, how controls will be used, and the fate of both the products and waste generated. For modifications and/or revisions, explain how the changes will affect the existing process. In a separate paragraph describe the major process bottlenecks that limit production. The purpose of this description is to provide sufficient information about plant operations for the permit writer to determine appropriate emission sources.

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This facility is a cryogenic natural gas processing plant, with a permitted maximum throughput capacity of 165 MMSCF/D. Raw field gas enters at different inlet pressures and is routed to various compressors in the plant to optimize field and plant operations. Field gas passes through inlet separation, coalescing filters, and particulate filters to remove liquids and contaminants prior to treating and processing. The facility is also equipped with a low pressure and high-pressure process flare that can burn raw field gas or residue gas during plan upset conditions.

Maljamar Gas Plant has both inlet and intermediate compression that is either electric driven or internal combustion (engine) driven. Heavier hydrocarbons that are separated in the inlet or through the various stages of compression are stabilized, collected in a pressure tank, and loaded to tanker trucks. The vapors recovered from stabilization are routed into the low-pressure inlet system. Produced water from separation/stabilization is routed to a skimmer tank and the water is pumped to a third party.

High pressure gas from the final stage of compression enters one of three contactors for sweetening. Contactor one, two, and three are capable of treating approximately 65 MMSCF/D, 60 MMSCF/D, and 30 MMSCF/D, respectively depending on inlet acid gas concentrations. Rich amine from the contactors is regenerated in two separate stills utilizing heat from two hot oil systems. The acid gas from the still overhead is sent to the Acid Gas Injection (AGI) and acid gas flare system. The AGI system consists of two redundant electric driven compression trains for sequestration via two injection wells at the site. Typical emissions from the AGI system are fugitive under normal operation. Under upset conditions, when the compression trains or wells are not operational, the acid gas from the still overhead is sent to the AGI flare.

After CO<sub>2</sub>/H<sub>2</sub>S removal, raw/wet sweet gas is sent to one of the four natural gas cryogenic trains for processing to extract Natural Gas Liquids (NGL) from the gas. Three of the trains have a 30 MMSCF/D capacity and one train is capable of processing 60 MMSCF/D. Each cryogenic train is equipped with mole sieve desiccant bed towers, propane refrigeration, and gas regeneration systems. NGLs from the cryo trains are sent to pressurized storage where it is pumped and exported to a third party via pipelines for delivery to market. Residue gas from the cryo system is compressed by either electric or gas fired engine driven compression and delivered via pipeline to adjacent transportation pipeline for delivery to market.

# Section 11

## Source Determination

Source submitting under 20.2.70, 20.2.72, 20.2.73, and 20.2.74 NMAC

Sources applying for a construction permit, PSD permit, or operating permit shall evaluate surrounding and/or associated sources (including those sources directly connected to this source for business reasons) and complete this section. Responses to the following questions shall be consistent with the Air Quality Bureau's permitting guidance, Single Source Determination Guidance, which may be found on the Applications Page in the Permitting Section of the Air Quality Bureau website.

Typically, buildings, structures, installations, or facilities that have the same SIC code, that are under common ownership or control, and that are contiguous or adjacent constitute a single stationary source for 20.2.70, 20.2.72, 20.2.73, and 20.2.74 NMAC applicability purposes. Submission of your analysis of these factors in support of the responses below is optional, unless requested by NMED.

**A. Identify the emission sources evaluated in this section (list and describe):**

Propane Refrigeration Engine (Unit Number: 44), and fugitive emissions (Unit Number: FUG).

**B. Apply the 3 criteria for determining a single source:**

**SIC Code:** Surrounding or associated sources belong to the same 2-digit industrial grouping (2-digit SIC code) as this facility, OR surrounding or associated sources that belong to different 2-digit SIC codes are support facilities for this source.

**Yes**       **No**

**Common Ownership or Control:** Surrounding or associated sources are under common ownership or control as this source.

**Yes**       **No**

**Contiguous or Adjacent:** Surrounding or associated sources are contiguous or adjacent with this source.

**Yes**       **No**

**C. Make a determination:**

The source, as described in this application, constitutes the entire source for 20.2.70, 20.2.72, 20.2.73, or 20.2.74 NMAC applicability purposes. If in "A" above you evaluated only the source that is the subject of this application, all "YES" boxes should be checked. If in "A" above you evaluated other sources as well, you must check **AT LEAST ONE** of the boxes "NO" to conclude that the source, as described in the application, is the entire source for 20.2.70, 20.2.72, 20.2.73, and 20.2.74 NMAC applicability purposes.

The source, as described in this application, **does not** constitute the entire source for 20.2.70, 20.2.72, 20.2.73, or 20.2.74 NMAC applicability purposes (A permit may be issued for a portion of a source). The entire source consists of the following facilities or emissions sources (list and describe):

# Section 12

## Section 12.A

### PSD Applicability Determination for All Sources

(Submitting under 20.2.72, 20.2.74 NMAC)

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**A PSD applicability determination for all sources.** For sources applying for a significant permit revision, apply the applicable requirements of 20.2.74.AG and 20.2.74.200 NMAC and to determine whether this facility is a major or minor PSD source, and whether this modification is a major or a minor PSD modification. It may be helpful to refer to the procedures for Determining the Net Emissions Change at a Source as specified by Table A-5 (Page A.45) of the EPA New Source Review Workshop Manual to determine if the revision is subject to PSD review.

A. This facility is:

- a minor PSD source before and after this modification (if so, delete C and D below).
- a major PSD source before this modification. This modification will make this a PSD minor source.
- an existing PSD Major Source that has never had a major modification requiring a BACT analysis.
- an existing PSD Major Source that has had a major modification requiring a BACT analysis
- a new PSD Major Source after this modification.

B. This facility **is not** one of the listed 20.2.74.501 Table I – PSD Source Categories. The “project” emissions for this modification are **not significant because emission increases from the new propane refrigeration engine and associated fugitive components are not greater than major source thresholds. Additionally, installation of the new amine contactor will not increase allowable emissions and the site is currently limited to 249 tpy of SO<sub>2</sub>. Since allowable emissions are not increasing due to the amine contactor, actual emission increases cannot increase above 250 tpy; therefore, there is not a significant emission increase.** The “project” emissions listed below **do only result from changes described in this permit application, thus no emissions from other revisions or modifications, past or future** to this facility. The project emissions (before netting) for this project are as follows [see Table 2 in 20.2.74.502 NMAC for a complete list of significance levels]:

- a. NO<sub>x</sub>: **4.99** TPY
- b. CO: **1.58** TPY
- c. VOC: **2.81** TPY
- d. SO<sub>x</sub>: **0.53** TPY
- e. PM: **0.35** TPY
- f. PM<sub>10</sub>: **0.35** TPY
- g. PM<sub>2.5</sub>: **0.35** TPY
- h. Fluorides: **0.00** TPY
- i. Lead: **0.00** TPY
- j. Sulfur compounds (listed in Table 2): **0.00** TPY
- k. GHG: **4,383.19** TPY

C. If this is an existing PSD major source, or any facility with emissions greater than 250 TPY (or 100 TPY for 20.2.74.501 Table 1 – PSD Source Categories), determine whether any permit modifications are related, or could be considered a single project with this action, and provide an explanation for your determination whether a PSD modification is triggered.

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# Section 13

## Determination of State & Federal Air Quality Regulations

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**This section lists each state and federal air quality regulation that may apply to your facility and/or equipment that are stationary sources of regulated air pollutants.**

Not all state and federal air quality regulations are included in this list. Go to the Code of Federal Regulations (CFR) or to the Air Quality Bureau's regulation page to see the full set of air quality regulations.

### **Required Information for Specific Equipment:**

For regulations that apply to specific source types, in the 'Justification' column **provide any information needed to determine if the regulation does or does not apply. For example**, to determine if emissions standards at 40 CFR 60, Subpart IIII apply to your three identical stationary engines, we need to know the construction date as defined in that regulation; the manufacturer date; the date of reconstruction or modification, if any; if they are or are not fire pump engines; if they are or are not emergency engines as defined in that regulation; their site ratings; and the cylinder displacement.

### **Required Information for Regulations that Apply to the Entire Facility:**

See instructions in the 'Justification' column for the information that is needed to determine if an 'Entire Facility' type of regulation applies (e.g. 20.2.70 or 20.2.73 NMAC).

### **Regulatory Citations for Regulations That Do Not, but Could Apply:**

If there is a state or federal air quality regulation that does not apply, but you have a piece of equipment in a source category for which a regulation has been promulgated, you must **provide the low level regulatory citation showing why your piece of equipment is not subject to or exempt from the regulation. For example** if you have a stationary internal combustion engine that is not subject to 40 CFR 63, Subpart ZZZZ because it is an existing 2 stroke lean burn stationary RICE with a site rating of more than 500 brake HP located at a major source of HAP emissions, your citation would be 40 CFR 63.6590(b)(3)(i). **We don't want a discussion of every non-applicable regulation, but if it is possible a regulation could apply, explain why it does not. For example**, if your facility is a power plant, you do not need to include a citation to show that 40 CFR 60, Subpart OOO does not apply to your non-existent rock crusher.

### **Regulatory Citations for Emission Standards:**

**For each unit that is subject to an emission standard in a source specific regulation, such as 40 CFR 60, Subpart OOO or 40 CFR 63, Subpart HH, include the low level regulatory citation of that emission standard.** Emission standards can be numerical emission limits, work practice standards, or other requirements such as maintenance. **Here are examples:** a glycol dehydrator is subject to the general standards at 63.764C(1)(i) through (iii); an engine is subject to 63.6601, Tables 2a and 2b; a crusher is subject to 60.672(b), Table 3 and all transfer points are subject to 60.672(e)(1)

### **Federally Enforceable Conditions:**

All federal regulations are federally enforceable. All Air Quality Bureau State regulations are federally enforceable except for the following: affirmative defense portions at 20.2.7.6.B, 20.2.7.110(B)(15), 20.2.7.11 through 20.2.7.113, 20.2.7.115, and 20.2.7.116; 20.2.37; 20.2.42; 20.2.43; 20.2.62; 20.2.63; 20.2.86; 20.2.89; and 20.2.90 NMAC. Federally enforceable means that EPA can enforce the regulation as well as the Air Quality Bureau and federally enforceable regulations can count toward determining a facility's potential to emit (PTE) for the Title V, PSD, and nonattainment permit regulations.

INCLUDE ANY OTHER INFORMATION NEEDED TO COMPLETE AN APPLICABILITY DETERMINATION OR THAT IS RELEVANT TO YOUR FACILITY'S NOTICE OF INTENT OR PERMIT.

**EPA Applicability Determination Index for 40 CFR 60, 61, 63, etc:** <http://cfpub.epa.gov/adi/>

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To save paper and to standardize the application format, delete this sentence, and begin your submittal for this attachment on this page.

### **Example of a Table for STATE REGULATIONS:**

<u>STATE REGU- LATIONS CITATION</u>	<b>Title</b>	<b>Applies? Enter Yes or No</b>	<b>Unit(s) or Facility</b>	<b>JUSTIFICATION:  (You may delete instructions or statements that do not apply in the justification column to shorten the document.)</b>
20.2.1 NMAC	General Provisions	Yes	Facility	General Provisions apply to Notice of Intent, Construction, and Title V permit applications.
20.2.3 NMAC	Ambient Air Quality Standards NMAAQs	Yes	Facility	20.2.3 NMAC is a State Implementation Plan (SIP) approved regulation that limits the maximum allowable concentration of, Sulfur Compounds, Carbon Monoxide and Nitrogen Dioxide.
20.2.7 NMAC	Excess Emissions	Yes	Facility	If your entire facility or individual pieces of equipment are subject to emissions limits in a permit or numerical emissions standards in a federal or state regulation, this applies. Listed as applicable in NSR permit 0319-M9.
20.2.23 NMAC	Fugitive Dust Control	No	Facility	This regulation may apply if, this is an application for a notice of intent (NOI) per 20.2.73 NMAC, if the activity or facility is a fugitive dust source listed at 20.2.23.108.A NMAC, <b>and</b> if the activity or facility is located in an area subject to a mitigation plan pursuant to 40 CFR 51.930. <a href="http://164.64.110.134/parts/title20/20.002.0023.html">http://164.64.110.134/parts/title20/20.002.0023.html</a> As of January 2019, the only areas of the State subject to a mitigation plan per 40 CFR 51.930 are in Doña Ana and Luna Counties. Sources exempt from 20.2.23 NMAC are activities and facilities subject to a permit issued pursuant to the NM Air Quality Control Act, the Mining Act, or the Surface Mining Act (20.2.23.108.B NMAC). <b>20.2.23.108 APPLICABILITY:</b> <b>A.</b> This part shall apply to persons owning or operating the following fugitive dust sources in areas requiring a mitigation plan in accordance with 40 CFR Part 51.930: <b>(1)</b> disturbed surface areas or inactive disturbed surface areas, or a combination thereof, encompassing an area equal to or greater than one acre; <b>(2)</b> any commercial or industrial bulk material processing, handling, transport or storage operations. <b>B.</b> The following fugitive dust sources are exempt from this part: <b>(1)</b> agricultural facilities, as defined in this part; <b>(2)</b> roadways, as defined in this part; <b>(3)</b> operations issued permits pursuant to the state of New Mexico Air Quality Control Act, Mining Act or Surface Mining Act; and <b>(4)</b> lands used for state or federal military activities. [20.2.23.108 NMAC - N, 01/01/2019]
20.2.33 NMAC	Gas Burning Equipment - Nitrogen Dioxide	No	N/A	This facility does not have new gas burning equipment ( <b>external combustion emission sources, such as gas fired boilers and heaters</b> ) having a heat input of greater than 1,000,000 million British Thermal Units per year per unit
20.2.34 NMAC	Oil Burning Equipment: NO <sub>2</sub>	No	N/A	This facility does not have oil burning equipment ( <b>external combustion emission sources, such as oil fired boilers and heaters</b> ) having a heat input of greater than 1,000,000 million British Thermal Units per year per unit.
20.2.35 NMAC	Natural Gas Processing Plant – Sulfur	No	N/A	This regulation does not apply to gas plants that reduce sulfur emissions by underground injection with an acid gas injection system or to acid gas flaring emissions when an AGI or SRU is being maintained. Therefore, this regulation does not apply to the Maljamar Gas Plant. This determination was made as part of NSR Permit No 319-M11-R1.
20.2.37 and 20.2.36 NMAC	Petroleum Processing Facilities and Petroleum Refineries	N/A	N/A	<b>These regulations were repealed by the Environmental Improvement Board. If you had equipment subject to 20.2.37 NMAC before the repeal, your combustion emission sources are now subject to 20.2.61 NMAC.</b>
<u>20.2.38</u> NMAC	Hydrocarbon Storage Facility	No	N/A	This regulation could apply to storage tanks at petroleum production facilities, processing facilities, tanks batteries, or hydrocarbon storage facilities. There are no tanks or tank batteries that meet the storage capacity and weekly throughput requirements that would trigger this requirement.
<u>20.2.39</u> NMAC	Sulfur Recovery Plant - Sulfur	No	N/A	This regulation could apply to sulfur recovery plants that are not part of petroleum or natural gas processing facilities. This facility does not have a sulfur recovery

<u>STATE REGU- LATIONS CITATION</u>	<b>Title</b>	<b>Applies? Enter Yes or No</b>	<b>Unit(s) or Facility</b>	<b>JUSTIFICATION:  (You may delete instructions or statements that do not apply in the justification column to shorten the document.)</b>
				plant. Therefore, this regulation does not apply.
20.2.61.109 NMAC	Smoke & Visible Emissions	Yes	44	This regulation that limits opacity to 20% applies to Stationary Combustion Equipment, such as engines, boilers, heaters, and flares unless your equipment is subject to another state regulation that limits particulate matter such as 20.2.19 NMAC (see 20.2.61.109 NMAC). <b>If equipment at your facility was subject to the repealed regulation 20.2.37 NMAC it is now subject to 20.2.61 NMAC.</b>
20.2.70 NMAC	Operating Permits	Yes	Facility	Applies if your facility's potential to emit (PTE) is 100 tpy or more of any regulated air pollutant other than HAPs; and/or a HAPs PTE of 10 tpy or more for a single HAP or 25 or more tpy for combined HAPs; is subject to a 20.2.79 NMAC nonattainment permit; or is a facility subject to a federal regulation that requires you to obtain a Title V permit such as landfills or air curtain incinerators. This facility is a Title V major source of NO <sub>x</sub> , CO, SO <sub>2</sub> , VOC, and GHG.
20.2.71 NMAC	Operating Permit Fees	Yes	Facility	If subject to 20.2.70 NMAC and your permit includes numerical ton per year emission limits, you are subject to 20.2.71 NMAC and normally applies to the entire facility.
20.2.72 NMAC	Construction Permits	Yes	Facility	Could apply if your facility's potential emission rate (PER) is greater than 10 pph or greater than 25 tpy for any pollutant subject to a state or federal ambient air quality standard (does not include VOCs or HAPs); if the PER of lead is 5 tpy or more; if your facility is subject to 20.2.72.400 NMAC; or if you have equipment subject to 40 CFR 60 Subparts I and OOO, 40 CFR 61 Subparts C and D. This facility is subject to 20.2.72 NMAC and is permitted under NSR Permit 319-M11-R1
20.2.73 NMAC	NOI & Emissions Inventory Requirements	Yes	Facility	<b>A Notice of Intent application 20.2.73.200 NMAC</b> could apply if your facility's PER of <u>any</u> regulated air pollutant, including VOCs and HAPs, is 10 tpy or more or if you have lead emissions of 1 tpy or more. Include both fugitive and stack emissions to determine your PER. You could be required to submit <b>Emissions Inventory Reporting per 20.2.73.300 NMAC</b> if your facility is subject to 20.2.73.200, 20.2.72, or emits more than 1 ton of lead or 10 tons of PM <sub>10</sub> , PM <sub>2.5</sub> , SO <sub>x</sub> , NO <sub>x</sub> CO, or VOCs in any calendar year. All facilities that are a Title V Major Source as defined at 20.2.70.7.R NMAC, are subject to Emissions Inventory Reporting.
20.2.74 NMAC	Permits – Prevention of Significant Deterioration (PSD)	No	Facility	This facility is a stationary source not listed in Table I of this Part which emits or has the potential to emit stack emissions less than 250 tpy of any regulated pollutant. This regulation does not apply. Additionally, installation of the new amine contactor will not increase allowable emissions and the site is currently limited to less than 250 tpy of all regulated pollutants, specifically SO <sub>2</sub> is limited to 249 tpy. Since actual emissions of SO <sub>2</sub> cannot increase above 250 tpy without increasing the allowable emission rate this project in itself will not trigger PSD review.
20.2.75 NMAC	Construction Permit Fees	Yes	Facility	This regulation applies if you are submitting an application pursuant to 20.2.72, 20.2.73, 20.2.74, and/or 20.2.79 NMAC. If this is a 20.2.73 NMAC application it is subject to the filing fee at 20.2.75.10 NMAC. If this is a 20.2.72, 20.2.74, and/or 20.2.79 NMAC application it is subject to 20.2.75.10, 11 permit fee, and 11.E annual fees. You are not subject to the 75.11.E annual fees if you are subject to 20.2.71 NMAC.
20.2.77 NMAC	New Source Performance	Yes	Units subject to 40 CFR 60	This is a stationary source which is subject to the requirements of 40 CFR Part 60.
20.2.78 NMAC	Emission Standards for HAPS	No	Units Subject to 40 CFR 61	Under normal operation, this facility will not emit hazardous air pollutants which are subject to the requirements of 40 CFR Part 61. In the case of asbestos demolition, Subpart M would apply.

<u>STATE REGULATIONS</u> CITATION	Title	Applies? Enter Yes or No	Unit(s) or Facility	JUSTIFICATION:  (You may delete instructions or statements that do not apply in the justification column to shorten the document.)
20.2.79 NMAC	Permits – Nonattainment Areas	No	Facility	This regulation does not apply as this facility is located in an attainment area.
20.2.80 NMAC	Stack Heights	No	N/A	This regulation does not apply to any stacks at the facility.
20.2.82 NMAC	MACT Standards for source categories of HAPS	Yes	44	This regulation applies to all sources emitting hazardous air pollutants, which are subject to the requirements of 40 CFR Part 63, specifically Subpart ZZZZ with this submittal.

**Example of a Table for Applicable FEDERAL REGULATIONS (Note: This is not an exhaustive list):**

<u>FEDERAL REGULATIONS</u> CITATION	Title	Applies? Enter Yes or No	Unit(s) or Facility	JUSTIFICATION:
40 CFR 50	NAAQS	Yes	Facility	This applies if you are subject to 20.2.70, 20.2.72, 20.2.74, and/or 20.2.79 NMAC.
NSPS 40 CFR 60, Subpart A	General Provisions	Yes	Units subject to 40 CFR 60	Applies if any other Subpart in 40 CFR 60 applies.
NSPS 40 CFR60.40a, Subpart Da	Subpart Da, Performance Standards for <b>Electric Utility Steam Generating Units</b>	No	N/A	Not applicable as there are no electric utility steam generating units at this facility.
NSPS 40 CFR60.40b Subpart Db	<b>Electric Utility Steam Generating Units</b>	No	N/A	Not applicable as there are no electric utility steam generating units at this facility.
40 CFR 60.40c, Subpart Dc	Standards of Performance for Small Industrial-Commercial-Institutional Steam Generating Units	No	N/A	Not applicable as there are no steam generating units included with this project.



<u>FEDERAL REGULATIONS CITATION</u>	<b>Title</b>	<b>Applies? Enter Yes or No</b>	<b>Unit(s) or Facility</b>	<b>JUSTIFICATION:</b>
NSPS 40 CFR 60, Subpart Ka	Standards of Performance for <b>Storage Vessels for Petroleum Liquids</b> for which Construction, Reconstruction, or Modification Commenced After May 18, 1978, and <b>Prior</b> to July 23, 1984	No	N/A	Not applicable as there are no storage tanks included with this project.
NSPS 40 CFR 60, Subpart Kb	Standards of Performance for <b>Volatile Organic Liquid Storage Vessels</b> (Including Petroleum Liquid Storage Vessels) for Which Construction, Reconstruction, or Modification Commenced <b>After</b> July 23, 1984	No	N/A	Not applicable as there are no storage tanks included with this project.
NSPS 40 CFR 60.330 Subpart GG	<b>Stationary Gas Turbines</b>	No	N/A	Not applicable as there are no turbines at the facility.
NSPS 40 CFR 60, Subpart KKK	Leaks of VOC from <b>Onshore Gas Plants</b>	Yes	FUG	Affected Facility with Leaks of VOC from Onshore Gas Plants. Any affected facility under paragraph (a) of this section that commences construction, reconstruction, or modification after January 20, 1984, is subject to the requirements of this subpart. The group of all equipment (each pump, pressure relief device, open-ended valve or line, valve, compressor, and flange or other connector that is in VOC service or in wet gas service, and any device or system required by this subpart) except compressors (defined in § 60.631) within a process unit is an affected facility. A compressor station, dehydration unit, sweetening unit, underground storage tank, field gas gathering system, or liquefied natural gas unit is covered by this subpart if it is located at an onshore natural gas processing plant. If the unit is not located at the plant site, then it is exempt from the provisions of this subpart.
NSPS 40 CFR Part 60 Subpart LLL	Standards of Performance for <b>Onshore Natural Gas Processing: SO<sub>2</sub> Emissions</b>	No	N/A	Pursuant to §60.640(e), the provisions of this subpart do not apply to sweetening facilities producing acid gas that is completely re-injected into oil-or-gas bearing geological strata or otherwise not released to the atmosphere.
NSPS 40 CFR Part 60 Subpart OOOO	Standards of Performance for Crude Oil and Natural Gas Production, Transmission, and Distribution for which construction, modification or reconstruction commenced after August 23, 2011 and before	No	N/A	The rule applies to “affected” facilities that are constructed, modified, or reconstructed after Aug 23, 2011 (40 CFR 60.5365): gas wells, including fractured and hydraulically refractured wells, centrifugal compressors, reciprocating compressors, pneumatic controllers, certain equipment at natural gas processing plants, sweetening units at natural gas processing plants, and storage vessels.  The new equipment components related to the capacity expansion project were installed after the September 18, 2015 applicability date for NSPS OOOOa. There is no equipment subject to this standard for which construction, modification, or reconstruction commenced after August 23,2011 and before September 18, 2015. This regulation does not apply.

<u>FEDERAL REGU- LATIONS CITATION</u>	<b>Title</b>	<b>Applies? Enter Yes or No</b>	<b>Unit(s) or Facility</b>	<b>JUSTIFICATION:</b>
	September 18, 2015			
NSPS 40 CFR Part 60 Subpart OOOOa	Standards of Performance for Crude Oil and Natural Gas Facilities for which Construction, Modification or Reconstruction Commenced After September 18, 2015	Yes	FUG	The new equipment fugitive components related to the new engine will be installed after the September 18, 2015 applicability date for NSPS OOOOa. This equipment is subject to NSPS OOOOa and will comply with the standards outlined in 40 CFR 60.5397a.
NSPS 40 CFR 60 Subpart IIII	Standards of performance for Stationary Compression Ignition Internal Combustion Engines	No	N/A	This facility does not have any stationary compression ignition internal combustion engines. Additionally, this project does not include any compression ignition internal combustion engines. This regulation does not apply.
NSPS 40 CFR Part 60 Subpart JJJJ	Standards of Performance for Stationary Spark Ignition Internal Combustion Engines	Yes	44	The new engine constructed with this project was manufactured after June 12, 2006 and installed in 2020. This engine is subject to NSPS JJJJ and will meet the emission standards of 40 CFR 60.4233(e) and Table 1 as follows. NO <sub>x</sub> – 1.0 g/HP-hr, CO – 2.0 g/HP-hr, and VOC – 0.7 g/HP-hr.
NSPS 40 CFR 60 Subpart TTTT	Standards of Performance for Greenhouse Gas Emissions for Electric Generating Units	No	N/A	Not applicable. This facility does not have electric generating units.
NSPS 40 CFR 60 Subpart UUUU	Emissions Guidelines for Greenhouse Gas Emissions and Compliance Times for Electric Utility Generating Units	No	N/A	Not applicable. This facility does not have electric generating units.
NSPS 40 CFR 60, Subparts WWW, XXX, Cc, and Cf	Standards of performance for Municipal Solid Waste (MSW) Landfills	No	N/A	Not applicable. This facility is not a municipal solid waste landfill.
NESHAP 40 CFR 61 Subpart A	General Provisions	No	Units Subject to 40 CFR 61	Applies if any other Subpart in 40 CFR 61 applies.
NESHAP 40 CFR 61 Subpart E	National Emission Standards for <b>Mercury</b>	No	N/A	The provisions of this subpart are applicable to those stationary sources which process mercury ore to recover mercury, use mercury chlor-alkali cells to produce chlorine gas and alkali metal hydroxide, and incinerate or dry wastewater treatment plant sludge
NESHAP 40 CFR 61 Subpart V	National Emission Standards for <b>Equipment Leaks</b> (Fugitive Emission Sources)	No	N/A	Not applicable as the facility equipment does not operate in VHAP service. VHAP service means a piece of equipment either contains or contacts a fluid (liquid or gas) that is at least 10 percent by weight of VHAP. VHAP means a substance regulated under this subpart for which a standard for equipment leaks of the substance has been promulgated.

<u>FEDERAL REGU- LATIONS CITATION</u>	<b>Title</b>	<b>Applies? Enter Yes or No</b>	<b>Unit(s) or Facility</b>	<b>JUSTIFICATION:</b>
MACT 40 CFR 63, Subpart A	General Provisions	Yes	Units Subject to 40 CFR 63	Applies if any other Subpart in 40 CFR 63 applies.
MACT 40 CFR 63.760 Subpart HH	Oil and Natural Gas Production Facilities	No	N/A	This facility does not contain the affected sources. This regulation does not apply.
MACT 40 CFR 63 Subpart HHH		No	N/A	This subpart applies to owners and operators of natural gas transmission and storage facilities that transport or store natural gas prior to entering the pipeline to a local distribution company or to a final end user (if there is no local distribution company), and that are major sources of hazardous air pollutants (HAP) emissions as defined in §63.1271. This facility is not a natural gas transmission or storage facility. This regulation does not apply.
MACT 40 CFR 63 Subpart DDDDD	National Emission Standards for Hazardous Air Pollutants for Major Industrial, Commercial, and Institutional Boilers & Process Heaters	No	N/A	This facility does not contain the affected sources. This regulation does not apply.
MACT 40 CFR 63 Subpart UUUUU	National Emission Standards for Hazardous Air Pollutants Coal & Oil Fire Electric Utility Steam Generating Unit	No	N/A	This facility does not contain the affected sources. This regulation does not apply.
MACT 40 CFR 63 Subpart ZZZZ	National Emissions Standards for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines ( <b>RICE MACT</b> )	Yes	44	The new engine installed with this project is subject to MACT ZZZZ. Frontier complies with MACT ZZZZ by complying with NSPS JJJJ, per 40 CFR 63.6590(c).

<u>FEDERAL REGU- LATIONS CITATION</u>	<b>Title</b>	<b>Applies? Enter Yes or No</b>	<b>Unit(s) or Facility</b>	<b>JUSTIFICATION:</b>
40 CFR 64	<b>Compliance Assurance Monitoring</b>	No.	N/A	This project does not include any emissions units subject to Compliance Assurance Monitoring.
40 CFR 68	<b>Chemical Accident Prevention</b>	Yes	Facility	This facility is a stationary source that has more than a threshold quantity of a regulated substance in a process, as determined under 40 CFR 68.115.
Title IV – Acid Rain 40 CFR 72	<b>Acid Rain</b>	No	N/A	Not applicable as this facility is not an acid rain source.
Title IV – Acid Rain 40 CFR 73	<b>Sulfur Dioxide Allowance Emissions</b>	No	N/A	Not applicable as this facility is not an acid rain source.
Title IV-Acid Rain 40 CFR 75	<b>Continuous Emissions Monitoring</b>	No	N/A	Not applicable as this facility is not an acid rain source.
Title IV – Acid Rain 40 CFR 76	<b>Acid Rain Nitrogen Oxides Emission Reduction Program</b>	No	N/A	Not applicable as this facility is not an acid rain source.
Title VI – 40 CFR 82	<b>Protection of Stratospheric Ozone</b>	No	N/A	Not applicable. Facility does not “service, maintain, or repair” class I or class II appliances nor “disposes” of the appliances.

# Section 14

## Operational Plan to Mitigate Emissions

(Submitting under 20.2.70, 20.2.72, 20.2.74 NMAC)

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- Title V Sources** (20.2.70 NMAC): By checking this box and certifying this application the permittee certifies that it has developed an **Operational Plan to Mitigate Emissions During Startups, Shutdowns, and Emergencies** defining the measures to be taken to mitigate source emissions during startups, shutdowns, and emergencies as required by 20.2.70.300.D.5(f) and (g) NMAC. This plan shall be kept on site to be made available to the Department upon request. This plan should not be submitted with this application.
- NSR** (20.2.72 NMAC), **PSD** (20.2.74 NMAC) & **Nonattainment** (20.2.79 NMAC) **Sources:** By checking this box and certifying this application the permittee certifies that it has developed an **Operational Plan to Mitigate Source Emissions During Malfunction, Startup, or Shutdown** defining the measures to be taken to mitigate source emissions during malfunction, startup, or shutdown as required by 20.2.72.203.A.5 NMAC. This plan shall be kept on site to be made available to the Department upon request. This plan should not be submitted with this application.
- Title V** (20.2.70 NMAC), **NSR** (20.2.72 NMAC), **PSD** (20.2.74 NMAC) & **Nonattainment** (20.2.79 NMAC) **Sources:** By checking this box and certifying this application the permittee certifies that it has established and implemented a Plan to Minimize Emissions During Routine or Predictable Startup, Shutdown, and Scheduled Maintenance through work practice standards and good air pollution control practices as required by 20.2.7.14.A and B NMAC. This plan shall be kept on site or at the nearest field office to be made available to the Department upon request. This plan should not be submitted with this application.
- 

Startup and shutdown procedures are performed according to guidelines, which dictate proper procedural sequence to minimize emissions from the facility during such activities.

Equipment located at the plant is equipped with various safety devices that aid in preventing excess emissions to the atmosphere in the event of an operational emergency. In the event of a malfunction, startup, shutdown, or scheduled maintenance in which emission rates from the facility exceed permitted allowable, Frontier Services will notify the AQB in accordance with 20.2.7 NMAC and the equipment responsible for the exceedance will be repaired as soon as possible

# Section 15

## Alternative Operating Scenarios

(Submitting under 20.2.70, 20.2.72, 20.2.74 NMAC)

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**Alternative Operating Scenarios:** Provide all information required by the department to define alternative operating scenarios. This includes process, material and product changes; facility emissions information; air pollution control equipment requirements; any applicable requirements; monitoring, recordkeeping, and reporting requirements; and compliance certification requirements. Please ensure applicable Tables in this application are clearly marked to show alternative operating scenario.

**Construction Scenarios:** When a permit is modified authorizing new construction to an existing facility, NMED includes a condition to clearly address which permit condition(s) (from the previous permit and the new permit) govern during the interval between the date of issuance of the modification permit and the completion of construction of the modification(s). There are many possible variables that need to be addressed such as: Is simultaneous operation of the old and new units permitted and, if so for example, for how long and under what restraints? In general, these types of requirements will be addressed in Section A100 of the permit, but additional requirements may be added elsewhere. Look in A100 of our NSR and/or TV permit template for sample language dealing with these requirements. Find these permit templates at: [https://www.env.nm.gov/aqb/permit/aqb\\_pol.html](https://www.env.nm.gov/aqb/permit/aqb_pol.html). Compliance with standards must be maintained during construction, which should not usually be a problem unless simultaneous operation of old and new equipment is requested.

In this section, under the bolded title “Construction Scenarios”, specify any information necessary to write these conditions, such as: conservative-realistic estimated time for completion of construction of the various units, whether simultaneous operation of old and new units is being requested (and, if so, modeled), whether the old units will be removed or decommissioned, any PSD ramifications, any temporary limits requested during phased construction, whether any increase in emissions is being requested as SSM emissions or will instead be handled as a separate Construction Scenario (with corresponding emission limits and conditions, etc).

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There are no alternative operating scenarios at Maljamar Gas Plant as Frontier Services, LLC understands the term.

# Section 16

## Air Dispersion Modeling

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- 1) Minor Source Construction (20.2.72 NMAC) and Prevention of Significant Deterioration (PSD) (20.2.74 NMAC) ambient impact analysis (modeling): Provide an ambient impact analysis as required at 20.2.72.203.A(4) and/or 20.2.74.303 NMAC and as outlined in the Air Quality Bureau’s Dispersion Modeling Guidelines found on the Planning Section’s modeling website. If air dispersion modeling has been waived for one or more pollutants, attach the AQB Modeling Section modeling waiver approval documentation.
- 2) SSM Modeling: Applicants must conduct dispersion modeling for the total short term emissions during routine or predictable startup, shutdown, or maintenance (SSM) using realistic worst case scenarios following guidance from the Air Quality Bureau’s dispersion modeling section. Refer to "Guidance for Submittal of Startup, Shutdown, Maintenance Emissions in Permit Applications ([http://www.env.nm.gov/aqb/permit/app\\_form.html](http://www.env.nm.gov/aqb/permit/app_form.html)) for more detailed instructions on SSM emissions modeling requirements.
- 3) Title V (20.2.70 NMAC) ambient impact analysis: Title V applications must specify the construction permit and/or Title V Permit number(s) for which air quality dispersion modeling was last approved. Facilities that have only a Title V permit, such as landfills and air curtain incinerators, are subject to the same modeling required for preconstruction permits required by 20.2.72 and 20.2.74 NMAC.

What is the purpose of this application?	Enter an X for each purpose that applies
New PSD major source or PSD major modification (20.2.74 NMAC). See #1 above.	
New Minor Source or significant permit revision under 20.2.72 NMAC (20.2.72.219.D NMAC). See #1 above. <b>Note:</b> Neither modeling nor a modeling waiver is required for VOC emissions.	X
Reporting existing pollutants that were not previously reported.	
Reporting existing pollutants where the ambient impact is being addressed for the first time.	
Title V application (new, renewal, significant, or minor modification. 20.2.70 NMAC). See #3 above.	
Relocation (20.2.72.202.B.4 or 72.202.D.3.c NMAC)	
Minor Source Technical Permit Revision 20.2.72.219.B.1.d.vi NMAC for like-kind unit replacements.	
Other: i.e. SSM modeling. See #2 above.	
This application does not require modeling since this is a No Permit Required (NPR) application.	
This application does not require modeling since this is a Notice of Intent (NOI) application (20.2.73 NMAC).	
This application does not require modeling according to 20.2.70.7.E(11), 20.2.72.203.A(4), 20.2.74.303, 20.2.79.109.D NMAC and in accordance with the Air Quality Bureau’s Modeling Guidelines.	

**Check each box that applies:**

- See attached, approved modeling **waiver for all** pollutants from the facility.
- See attached, approved modeling **waiver for some** pollutants from the facility.
- Attached in Universal Application Form 4 (UA4) is a **modeling report for all** pollutants from the facility.
- Attached in UA4 is a **modeling report for some** pollutants from the facility.
- No modeling is required.

# Section 17

## Compliance Test History

(Submitting under 20.2.70, 20.2.72, 20.2.74 NMAC)

To show compliance with existing NSR permits conditions, you must submit a compliance test history. The table below provides an example.

**Compliance Test History Table**

Unit No.	Serial	Quarterly Test Date	Quarterly Test Date	Annual JJJJ Test Date
20	2054-2S	04/17/2019	10/17/2019	01/13/2020
21	17970	04/17/2019	10/17/2019	01/13/2020
30	BKE0614	04/17/2019	10/18/2019	01/20/2020
31	BKE0618	04/17/2019	10/18/2019	01/21/2020
32	JEF01437	04/17/2019	10/17/2019	01/21/2020
33	JEF01821	04/17/2019	10/18/2019	01/23/2020
34	JEF01818	04/17/2019	10/17/2019	01/22/2020
35	JEF01797	04/17/2019	10/17/2019	01/22/2020

These were all quarterly monitoring events conducted with a portable analyzer. Each test demonstrated compliance with applicable emission limits.



# Section 20

## Other Relevant Information

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**Other relevant information.** Use this attachment to clarify any part in the application that you think needs explaining. Reference the section, table, column, and/or field. Include any additional text, tables, calculations or clarifying information.

Additionally, the applicant may propose specific permit language for AQB consideration. In the case of a revision to an existing permit, the applicant should provide the old language and the new language in track changes format to highlight the proposed changes. If proposing language for a new facility or language for a new unit, submit the proposed operating condition(s), along with the associated monitoring, recordkeeping, and reporting conditions. In either case, please limit the proposed language to the affected portion of the permit.

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No other relevant information is provided.

# Section 22: Certification

Company Name: Frontier Field Services, LLC

I, Darin B. Kennard, hereby certify that the information and data submitted in this application are true and as accurate as possible, to the best of my knowledge and professional expertise and experience.

Signed this 5 day of March, 2020, upon my oath or affirmation, before a notary of the State of TEXAS.

Darin B. Kennard  
\*Signature

3/5/2020  
Date

Darin B. Kennard  
Printed Name

Vice President and General Manager  
Title

Scribed and sworn before me on this 5 day of March, 2020.

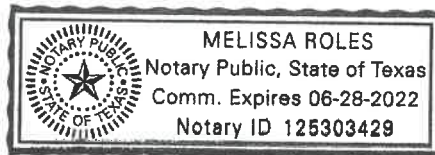
My authorization as a notary of the State of TEXAS expires on the

28<sup>th</sup> day of June, 2022.

Melissa Roles  
Notary's Signature

3-5-2020  
Date

Melissa Roles  
Notary's Printed Name



\*For Title V applications, the signature must be of the Responsible Official as defined in 20.2.70.7.AE NMAC.

# Universal Application 4

## Air Dispersion Modeling Report

Refer to and complete Section 16 of the Universal Application form (UA3) to assist your determination as to whether modeling is required. If, after filling out Section 16, you are still unsure if modeling is required, e-mail the completed Section 16 to the AQB Modeling Manager for assistance in making this determination. If modeling is required, a modeling protocol would be submitted and approved prior to an application submittal. The protocol should be emailed to the modeling manager. A protocol is recommended but optional for minor sources and is required for new PSD sources or PSD major modifications. Fill out and submit this portion of the Universal Application form (UA4), the "Air Dispersion Modeling Report", only if air dispersion modeling is required for this application submittal. This serves as your modeling report submittal and should contain all the information needed to describe the modeling. No other modeling report or modeling protocol should be submitted with this permit application.

<b>16-A: Identification</b>		
1	Name of facility:	<b>Maljamar Gas Plant</b>
2	Name of company:	<b>Frontier Field Services, LLC</b>
3	Current Permit number:	<b>0319-M11-R1</b>
4	Name of applicant's modeler:	<b>Kim Frauhammer</b>
5	Phone number of modeler:	<b>720-500-3726</b>
6	E-mail of modeler:	<a href="mailto:kfrauhammer@spiritenv.com">kfrauhammer@spiritenv.com</a>

<b>16-B: Brief</b>		
1	Was a modeling protocol submitted and approved?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
2	Why is the modeling being done?	<b>Adding New Equipment</b>
3	Describe the permit changes relevant to the modeling. Addition of one (1) new natural gas-fired four (4)-stroke lean-burn engine, described as the CAT3512.	
4	What geodetic datum was used in the modeling?	<b>NAD83</b>
5	How long will the facility be at this location?	<b>Site is permanent</b>
6	Is the facility a major source with respect to Prevention of Significant Deterioration (PSD)?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>
7	Identify the Air Quality Control Region (AQCR) in which the facility is located	<b>155</b>

8	List the PSD baseline dates for this region (minor or major, as appropriate).		
	NO2	<b>Major: 02/08/1988 Minor: 03/16/1988</b>	
	SO2	<b>Major: 01/06/1975 Minor: 07/28/1978</b>	
	PM10	<b>Major: 01/06/1975 Minor: 02/20/1979</b>	
	PM2.5	<b>Major: 10/20/2010 Minor: 11/13/2013</b>	
9	Provide the name and distance to Class I areas within 50 km of the facility (300 km for PSD permits).		
	N/A		
10	Is the facility located in a non-attainment area? If so describe below	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>
11	Describe any special modeling requirements, such as streamline permit requirements.		
	N/A		

### 16-C: Modeling History of Facility

1	Describe the modeling history of the facility, including the air permit numbers, the pollutants modeled, the National Ambient Air Quality Standards (NAAQS), New Mexico AAQS (NMNAAQS), and PSD increments modeled. (Do not include modeling waivers).			
	Pollutant	Latest permit and modification number that modeled the pollutant facility-wide.	Date of Permit	Comments
	CO	<b>0319-M10R2, P123-R2</b>	<b>05/08/2015</b>	<b>NAAQS, NMNAAQS</b>
	NO <sub>2</sub>	<b>0319-M10R2, P123-R2</b>	<b>05/08/2015</b>	<b>NAAQS, NMNAAQS, PSD</b>
	SO <sub>2</sub>	<b>0319-M10R2, P123-R2</b>	<b>05/08/2015</b>	<b>NAAQS, NMNAAQS, PSD</b>
	H <sub>2</sub> S	<b>0319-M10R2, P123-R2</b>	<b>05/08/2015</b>	<b>NMNAAQS</b>
	PM2.5	<b>0319-M9</b>	<b>8/14/2012</b>	<b>NAAQS</b>
	PM10	<b>0319-M9</b>	<b>8/14/2012</b>	<b>NAAQS, PSD</b>
	TSP	<b>0319-M9</b>	<b>8/14/2012</b>	<b>NMNAAQS</b>
	Lead			
	Ozone (PSD only)			
NM Toxic Air Pollutants (20.2.72.402 NMAC)				

### 16-D: Modeling performed for this application

1	For each pollutant, indicate the modeling performed and submitted with this application. Choose the most complicated modeling applicable for that pollutant, i.e., culpability analysis assumes ROI and cumulative analysis were also performed.					
	Pollutant	ROI	Cumulative analysis	Culpability analysis	Waiver approved	Pollutant not emitted or not changed.
	CO	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	NO <sub>2</sub>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	SO <sub>2</sub>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

H <sub>2</sub> S	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
PM <sub>2.5</sub>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
PM <sub>10</sub>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
TSP	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Lead	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Ozone	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
State air toxic(s) (20.2.72.402 NMAC)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>

**16-E: New Mexico toxic air pollutants modeling**

1	List any New Mexico toxic air pollutants (NMTAPs) from Tables A and B in 20.2.72.502 NMAC that are modeled for this application.					
2	List any NMTAPs that are emitted but not modeled because stack height correction factor. Add additional rows to the table below, if required.					
	Pollutant	Emission Rate (pounds/hour)	Emission Rate Screening Level (pounds/hour)	Stack Height (meters)	Correction Factor	Emission Rate/Correction Factor

**16-F: Modeling options**

1	Was the latest version of AERMOD used with regulatory default options? If not explain below.	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>
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**16-G: Surrounding source modeling**

1	Date of surrounding source retrieval	01/23/2020
2	If the surrounding source inventory provided by the Air Quality Bureau was believed to be inaccurate, describe how the sources modeled differ from the inventory provided. If changes to the surrounding source inventory were made, use the table below to describe them. Add rows as needed.	
	AQB Source ID	Description of Corrections

**16-H: Building and structure downwash**

1	How many buildings are present at the facility?	15
2	How many above ground storage tanks are present at the facility?	2

3	Was building downwash modeled for all buildings and tanks? If not explain why below.	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>
4	Building comments		

**16-I: Receptors and modeled property boundary**

1	<p>“Restricted Area” is an area to which public entry is effectively precluded. Effective barriers include continuous fencing, continuous walls, or other continuous barriers approved by the Department, such as rugged physical terrain with a steep grade that would require special equipment to traverse. If a large property is completely enclosed by fencing, a restricted area within the property may be identified with signage only. Public roads cannot be part of a Restricted Area. A Restricted Area is required in order to exclude receptors from the facility property. If the facility does not have a Restricted Area, then receptors shall be placed within the property boundaries of the facility.</p> <p>Describe the fence or other physical barrier at the facility that defines the restricted area.</p>					
	<p><b>There are three (3) separate but continuous fence lines surrounding the facility that define a restricted area.</b></p>					
2	Receptors must be placed along publicly accessible roads in the restricted area. Are there public roads passing through the restricted area?				Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>
3	Are restricted area boundary coordinates included in the modeling files?				Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>
4	Describe the receptor grids and their spacing. The table below may be used, adding rows as needed.					
	Grid Type	Shape	Spacing	Start distance from restricted area or center of facility	End distance from restricted area or center of facility	Comments
	Fenceline		50m	0m	500m	
	Cartesian		100m	500m	2500m	
	Cartesian		250m	2500m	5000m	
Cartesian		1000m	5000m	20000m		
5	Describe receptor spacing along the fence line.					
	<p><b>Receptors are spaced 50 meters apart along the fence line, out to a distance of 500 meters from the facility.</b></p>					
6	Describe the PSD Class I area receptors.					
	N/A					

**16-J: Sensitive areas**

1	Are there schools or hospitals or other sensitive areas near the facility? If so describe below. This information is optional (and purposely undefined) but may help determine issues related to public notice.	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>

3	The modeling review process may need to be accelerated if there is a public hearing. Are there likely to be public comments opposing the permit application?	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>
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<b>16-K: Modeling Scenarios</b>											
1	Identify, define, and describe all modeling scenarios. Examples of modeling scenarios include using different production rates, times of day, times of year, simultaneous or alternate operation of old and new equipment during transition periods, etc. Alternative operating scenarios should correspond to all parts of the Universal Application and should be fully described in Section 15 of the Universal Application (UA3).										
	<b>In the hourly cumulative analysis for NO<sub>2</sub> – two modeling scenarios were identified. SSM and NOSSM. The SSM modeling group contains emissions from SSM associated activities for emission points 17, 18, and 19; while the NOSSM scenario has zero emissions for those activities.</b>										
2	Which scenario produces the highest concentrations? Why?										
	<b>Emissions were slightly higher in the SSM scenario due to these operations assumed active.</b>										
3	Were emission factor sets used to limit emission rates or hours of operation? (This question pertains to the "SEASON", "MONTH", "HROFDY" and related factor sets, not to the factors used for calculating the maximum emission rate.)								Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>	
4	If so, describe factors for each group of sources. List the sources in each group before the factor table for that group. (Modify or duplicate table as necessary. It's ok to put the table below section 16-K if it makes formatting easier.) Sources:										
5	Hour of Day	Factor	Hour of Day	Factor							
	1		13								
	2		14								
	3		15								
	4		16								
	5		17								
	6		18								
	7		19								
	8		20								
	9		21								
	10		22								
	11		23								
	12		24								
	If hourly, variable emission rates were used that were not described above, describe them below.										
6	Were different emission rates used for short-term and annual modeling? If so describe below.								Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>	

<b>16-L: NO<sub>2</sub> Modeling</b>	
1	Which types of NO <sub>2</sub> modeling were used? Check all that apply.

	<input checked="" type="checkbox"/>	ARM2
	<input type="checkbox"/>	100% NO <sub>x</sub> to NO <sub>2</sub> conversion
	<input type="checkbox"/>	PVMRM
	<input type="checkbox"/>	OLM
	<input type="checkbox"/>	Other:
2	Describe the NO <sub>2</sub> modeling. <b>ARM2 was used for all NO2 modeling, with the default ratios used of a minimum ratio of 0.5, and a maximum ratio of 0.9.</b>	
3	Were default NO <sub>2</sub> /NO <sub>x</sub> ratios (0.5 minimum, 0.9 maximum or equilibrium) used? If not describe and justify the ratios used below.	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
4	Describe the design value used for each averaging period modeled. 1-hour: <b>High eighth high</b> Annual: Other (Describe): <b>Highest annual average of the 5 years evaluated</b>	

**16-M: Particulate Matter Modeling**

1	Select the pollutants for which plume depletion modeling was used.		
	<input type="checkbox"/>	PM2.5	
	<input type="checkbox"/>	PM10	
	<input checked="" type="checkbox"/>	None	
2	Describe the particle size distributions used. Include the source of information.		
3	Does the facility emit at least 40 tons per year of NO <sub>x</sub> or at least 40 tons per year of SO <sub>2</sub> ? Sources that emit at least 40 tons per year of NO <sub>x</sub> or at least 40 tons per year of SO <sub>2</sub> are considered to emit significant amounts of precursors and must account for secondary formation of PM2.5.		Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
4	Was secondary PM modeled for PM2.5?		Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>
5	If MERPs were used to account for secondary PM2.5 fill out the information below. If another method was used describe below.		
	NO <sub>x</sub> (ton/yr)	SO <sub>2</sub> (ton/yr)	[PM2.5] <sub>annual</sub>
	<b>4.9932</b>	<b>0.5256</b>	<b>0.00035957</b>
			[PM2.5] <sub>24-hour</sub>
			<b>0.007991</b>

**16-N: Setback Distances**



1	Portable sources or sources that need flexibility in their site configuration requires that setback distances be determined between the emission sources and the restricted area boundary (e.g. fence line) for both the initial location and future locations. Describe the setback distances for the initial location.
2	Describe the requested, modeled, setback distances for future locations, if this permit is for a portable stationary source. Include a haul road in the relocation modeling.

**16-O: PSD Increment and Source IDs**

1	The unit numbers in the Tables 2-A, 2-B, 2-C, 2-E, 2-F, and 2-I should match the ones in the modeling files. Do these match? If not, provide a cross-reference table between unit numbers if they do not match below.	Yes <input type="checkbox"/>	No <input type="checkbox"/>
	Unit Number in UA-2	Unit Number in Modeling Files	
	<b>44</b>	<b>CAT3512</b>	
	<b>All other unit numbers match.</b>		
2	The emission rates in the Tables 2-E and 2-F should match the ones in the modeling files. Do these match? If not, explain why below.	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>
3	Have the minor NSR exempt sources or Title V Insignificant Activities" (Table 2-B) sources been modeled?	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>
4	Which units consume increment for which pollutants? <b>All units that would consume increment pass the ROI analysis – which has more stringent values. Thus, increment modeling was not required.</b>		
	Unit ID	NO <sub>2</sub>	SO <sub>2</sub>
5	PSD increment description for sources. (for unusual cases, i.e., baseline unit expanded emissions after baseline date).		
6	Are all the actual installation dates included in Table 2A of the application form, as required? This is necessary to verify the accuracy of PSD increment modeling. If not please explain how increment consumption status is determined for the missing installation dates below.	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>

**16-P: Flare Modeling**

1	For each flare or flaring scenario, complete the following			
	Flare ID (and scenario)	Average Molecular Weight	Gross Heat Release (cal/s)	Effective Flare Diameter (m)
	17 (all)	<b>16.04</b>	<b>81667</b>	<b>0.3</b>
	18 (all)	<b>16.04</b>	<b>221083</b>	<b>0.4</b>
	19 (all)	<b>16.04</b>	<b>221083</b>	<b>0.4</b>

<b>16-Q: Volume and Related Sources</b>			
1	Were the dimensions of volume sources different from standard dimensions in the Air Quality Bureau (AQB) Modeling Guidelines?	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>
	If not please explain how increment consumption status is determined for the missing installation dates below.		
2	Describe the determination of sigma-Y and sigma-Z for fugitive sources.		
	N/A		
3	Describe how the volume sources are related to unit numbers. Or say they are the same.		
	Same		
4	Describe any open pits.		
	N/A		
5	Describe emission units included in each open pit.		
	N/A		

<b>16-R: Background Concentrations</b>			
1	Were NMED provided background concentrations used? Identify the background station used below. If non-NMED provided background concentrations were used describe the data that was used.	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>
	CO: Choose an item.		
	NO <sub>2</sub> : Choose an item.		
	PM2.5: Choose an item.		
	PM10: Choose an item.		
	SO <sub>2</sub> : Choose an item.		
	Other:		
	Comments:		
2	Were background concentrations refined to monthly or hourly values? If so describe below.	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>

<b>16-S: Meteorological Data</b>
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1	Was NMED provided meteorological data used? If so select the station used. <b>Hobbs</b>	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>
2	If NMED provided meteorological data was not used describe the data set(s) used below. Discuss how missing data were handled, how stability class was determined, and how the data were processed.		

**16-T: Terrain**

1	Was complex terrain used in the modeling? If not, describe why below.	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>
2	What was the source of the terrain data? <b>USGS terrain data</b>		

**16-U: Modeling Files**

1	Describe the modeling files:		
	File name (or folder and file name)	Pollutant(s)	Purpose (ROI/SIA, cumulative, culpability analysis, other)
	<b>Downwash Folder (Maljamar Gas Plant - Downwash (.PIP, .PRW, .SO, .SUM, .TAB))</b>	<b>NO2, SO2, PM25, PM10, CO</b>	<b>ROI, Cumulative</b>
	<b>Met data Folder(HOBBS_YEAR – Met data (.PFL, .SFC))</b>	<b>NO2, SO2, PM25, PM10, CO</b>	<b>ROI, Cumulative</b>
	<b>Terrain Folder (34w10# – Terrain data (.tif))</b>	<b>NO2, SO2, PM25, PM10, CO</b>	<b>ROI, Cumulative</b>
	<b>ROI Folder (Long term and short term ROI analysis (.BST, .BAT, .BND, .DTA, .GRF, .LST, .SUM))</b>	<b>NO2, SO2, PM25, PM10, CO</b>	<b>ROI</b>
	<b>CIA Folder (Short term cumulative analysis (.BST, .BAT, .BND, .DTA, .GRF, .LST, .SUM))</b>	<b>NO2</b>	<b>Cumulative</b>

<b>16-V: PSD New or Major Modification Applications</b>			
1	A new PSD major source or a major modification to an existing PSD major source requires additional analysis. Was preconstruction monitoring done (see 20.2.74.306 NMAC and PSD Preapplication Guidance on the AQB website)?	Yes <input type="checkbox"/>	No <input type="checkbox"/>
2	If not, did AQB approve an exemption from preconstruction monitoring?	Yes <input type="checkbox"/>	No <input type="checkbox"/>
3	Describe how preconstruction monitoring has been addressed or attach the approved preconstruction monitoring or monitoring exemption.		
4	Describe the additional impacts analysis required at 20.2.74.304 NMAC.		
5	If required, have ozone and secondary PM2.5 ambient impacts analyses been completed? If so describe below.	Yes <input type="checkbox"/>	No <input type="checkbox"/>

<b>16-W: Modeling Results</b>											
1		If ambient standards are exceeded because of surrounding sources, a culpability analysis is required for the source to show that the contribution from this source is less than the significance levels for the specific pollutant. Was culpability analysis performed? If so describe below.						Yes <input type="checkbox"/>		No <input checked="" type="checkbox"/>	
2		Identify the maximum concentrations from the modeling analysis. Rows may be modified, added and removed from the table below as necessary.									
Pollutant, Time Period and Standard	Modeled Facility Concentration (µg/m3)	Modeled Concentration with Surrounding Sources (µg/m3)	Secondary PM (µg/m3)	Background Concentration (µg/m3)	Cumulative Concentration (µg/m3)	Value of Standard (µg/m3)	Percent of Standard	Location			
								UTM E (m)	UTM N (m)	Elevation (ft)	
NO2, 1-hr, ROI	<b>27.60387</b>					<b>7.5</b>		<b>615101.40</b>	<b>3631312.90</b>	<b>4015.15748</b>	
NO2, Annual, ROI	<b>0.77462</b>					<b>1</b>		<b>614989.90</b>	<b>3631212.40</b>	<b>4009.908136</b>	
CO, 1-hr, ROI	<b>29.6826</b>					<b>2000</b>		<b>615101.40</b>	<b>3631312.90</b>	<b>4015.15748</b>	
CO, 8-hr, ROI	<b>22.5128</b>					<b>500</b>		<b>615078.80</b>	<b>3631349.00</b>	<b>4015.97769</b>	
PM25, 24-hr, ROI	<b>0.816091</b>					<b>1.2</b>		<b>614989.90</b>	<b>3631212.40</b>	<b>4009.908136</b>	
PM25, Annual, ROI	<b>0.060756</b>					<b>0.3</b>		<b>614989.90</b>	<b>3631212.40</b>	<b>4009.908136</b>	
PM10, 24-hr, ROI	<b>1.09976</b>					<b>5</b>		<b>614989.90</b>	<b>3631212.40</b>	<b>4009.908136</b>	
PM10, Annual, ROI	<b>0.06040</b>					<b>1</b>		<b>614989.90</b>	<b>3631212.40</b>	<b>4009.908136</b>	
SO2, 1-hr, ROI	<b>3.22852</b>					<b>7.8</b>		<b>615101.40</b>	<b>3631312.90</b>	<b>4015.15748</b>	
SO2, 3-hr, ROI	<b>3.07089</b>					<b>25</b>		<b>615115.20</b>	<b>3631274.30</b>	<b>4014.10761</b>	

Pollutant, Time Period and Standard	Modeled Facility Concentration ( $\mu\text{g}/\text{m}^3$ )	Modeled Concentration with Surrounding Sources ( $\mu\text{g}/\text{m}^3$ )	Secondary PM ( $\mu\text{g}/\text{m}^3$ )	Background Concentration ( $\mu\text{g}/\text{m}^3$ )	Cumulative Concentration ( $\mu\text{g}/\text{m}^3$ )	Value of Standard ( $\mu\text{g}/\text{m}^3$ )	Percent of Standard	Location		
								UTM E (m)	UTM N (m)	Elevation (ft)
SO <sub>2</sub> , 24-hr, ROI	<b>1.64964</b>					<b>5</b>		<b>614989.9 0</b>	<b>363121 2.40</b>	<b>4009.908 136</b>
SO <sub>2</sub> , Annual, ROI	<b>0.09060</b>					<b>1</b>		<b>614989.9 0</b>	<b>363121 2.40</b>	<b>4009.908 136</b>
NO <sub>2</sub> , 1-hr, Cumulative	<b>158.094</b>					<b>188.03</b>		<b>615078.8 0</b>	<b>363134 9.00</b>	<b>4015.977 69</b>

**16-X: Summary/conclusions**

	A statement that modeling requirements have been satisfied and that the permit can be issued.
1	<b>All applicable pollutants were modeled using the EPA's AERMOD. All pollutants but NO2 were below the significance threshold for ROI modeling, meaning they do not cause or contribute to a violation of the ambient air quality standards or PSD increment (CO, SO2, PM25, and PM10). NO2 was modeled in a cumulative analysis with neighboring sources and all emissions were below all appropriate NMNAAQS air quality standards, meaning it does not cause or contribute to a violation of the ambient air quality standards or PSD increment.</b>