

OAQ Permit Application withdrawn  
by applicant.

AI 133284

Source ID 777-05579

Permit # 47973

**From:** [Smiddie-Brush, Joanne](#)  
**To:** [Smiddie-Brush, Joanne](#)  
**Subject:** withdraw Keyrock 47973  
**Date:** Wednesday, July 3, 2024 10:47:25 AM  
**Attachments:** [image001.png](#)  
[image002.png](#)

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## 47973

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**Title \***

47973

5-digit permit ID

**Source Name \***

Keyrock Environment LLC

Alt Name if applicable

**Priority \***

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**Task Status \***

Cancel/Withdraw

**Misc. Review Purpose**

Withdrawn. Application was incomplete

**Allowable Clock Days \***

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Joanne Smiddie-Brush  
Section Chief, Permits Administration and Support  
Office of Air Quality  
Indiana Department of Environmental Management  
[jbrush@idem.IN.gov](mailto:jbrush@idem.IN.gov)

317-233-0185

**From:** [Moulik, Pratim](mailto:Pratim.Moulik@keyrockenergy.com)  
**To:** [jlane@keyrockenergy.com](mailto:jlane@keyrockenergy.com)  
**Subject:** IDEM OAQ Contact Information for Application No. 777-47973-05579 for Keyrock Environment (Oaktown 1)  
**Date:** Wednesday, June 19, 2024 1:45:00 PM  
**Attachments:** [image001.png](#)  
[image002.png](#)  
[image003.png](#)  
[image004.png](#)  
[image005.png](#)  
[image006.png](#)  
[image007.png](#)  
[image008.png](#)  
[image009.png](#)

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Dear Joe Lane,

I am the permit writer assigned to the current application No. 777-47973-05579 for Keyrock Environment (Oaktown 1). I would like to extend to you my contact information so that we may have continued communication until your new permit is issued. Please keep this information at hand. It is common for questions to arise, and oftentimes, further clarification is needed during the permit review process.

To expedite the review process, please e-mail me the electronic copy of your calculations (preferably in excel format) and other supporting documents used as part of your application.

IDEM, OAQ will notify you when a draft permit has been submitted for public notice and/or when a final permit has been issued. As part of the notification, IDEM, OAQ will provide information on how to access the draft and/or final permit electronically on IDEM's website. If Keyrock Environment (Oaktown 2) would prefer to receive paper copies of the entire draft and/or final permit, please let me know prior to the end of the applicant review period. If you prefer to receive paper copies of the entire permit, IDEM, OAQ will mail a paper copy of the draft permit and/or original signed final permit to the source contact. If you do not request to receive paper copies of the entire permit, IDEM, OAQ will only mail a paper copy of the original signed final permit signature page to the source contact.

Please feel free to contact me at any time if you have questions, concerns, or important information regarding your permit. For your convenience, my section chief (Josiah Balogun) may be contacted at 317-234-1203 or [JBalogun@idem.in.gov](mailto:JBalogun@idem.in.gov).

Thank you in advance for your time and assistance. I look forward to working with you.

Sincerely,

Pratim Moulik



Pratim Moulik  
Environmental Manager 2

(317) 234-6871 • [PMoulik@idem.IN.gov](mailto:PMoulik@idem.IN.gov)

 |  |  |  |  | [www.idem.IN.gov](http://www.idem.IN.gov)

Scan the QR code to leave your feedback.

**We appreciate your input!**



**From:** [Joe Lane](#)  
**To:** [Moulik, Pratim](#)  
**Subject:** FW: Oaktown-1 and Oaktown-2 Clerical error corrections  
**Date:** Thursday, June 20, 2024 9:59:59 AM  
**Attachments:** [Oaktown 1 MOD.pdf](#)  
[Oaktown 2 MOD.pdf](#)

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\*\*\*\* This is an EXTERNAL email. Exercise caution. DO NOT open attachments or click links from unknown senders or unexpected email. \*\*\*\*

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**From:** Joe Lane  
**Sent:** Tuesday, June 18, 2024 11:33 PM  
**To:** IDEM Air Permit Apps <AirPermitApps@idem.IN.gov>  
**Cc:** JACKSON, DWANA <djackson@idem.in.gov>  
**Subject:** Oaktown-1 and Oaktown-2 Clerical error corrections

Attached are two corrected modifications for previously approved Oaktown permits. Upon the modification of these permits the names were accidentally switched.

Oaktown-1 (Permit# 777-46713-05579) Should have been assigned address N [Chattin Rd & N Emison Mill Rd](#), Oaktown, IN 47561.

Oaktown-2 (Permit# 777-46712-05580) Should have been assigned address E [Freedlandville Rd & N Abrams Rd](#) .28 MI, Oaktown, IN 47561.

Keyrock Environmental is requesting that this error be corrected in your database.

Should you have any further questions or concerns please feel free to contact me at your earliest convenience

Thanks

Joe Lane  
Permitting Compliance Mgr.  
304-989-5533



**AIR PERMIT APPLICATION COVER SHEET**  
 State Form 50639 (R4 / 1-10)  
 INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT

**IDEM – Office of Air Quality – Permits Branch**  
 100 N. Senate Avenue, MC 61-53 Room 1003  
 Indianapolis, IN 46204-2251  
 Telephone: (317) 233-0178 or  
 Toll Free: 1-800-451-6027 x30178 (within Indiana)  
 Facsimile Number: (317) 232-6749  
[www.IN.gov/idem](http://www.IN.gov/idem)

**NOTES:**

- The purpose of this cover sheet is to obtain the core information needed to process the air permit application. This cover sheet is required for all air permit applications submitted to IDEM, OAQ. Place this cover sheet on top of all subsequent forms and attachments that encompass your air permit application packet.
- Submit the completed air permit application packet, including all forms and attachments, to **IDEM Air Permits Administration** using the address in the upper right hand corner of this page.
- IDEM will send a bill to collect the filing fee and any other applicable fees.
- Detailed instructions for this form are available on the Air Permit Application Forms website.

**FOR OFFICE USE ONLY**

**PERMIT NUMBER:**

**DATE APPLICATION WAS RECEIVED:**

**1. Tax ID Number: 26-0602410**

**PART A: Purpose of Application**

Part A identifies the purpose of this air permit application. For the purposes of this form, the term "source" refers to the plant site as a whole and NOT to individual emissions units.

**2. Source / Company Name:** Oaktown 1 / Keyrock Environment LLC **3. Plant ID:** 083 \_ 00067

**4. Billing Address:** 153 Jackson Avenue

**City:** Madison **State:** WV **ZIP Code:** 25130 –

**5. Permit Level:**  Exemption  Registration  SSOA  MSOP  FESOP  TVOP  PBR

**6. Application Summary:** Check all that apply. Multiple permit numbers may be assigned as needed based on the choices selected below.

- |   |   |  |
|---|---|--|
| <input type="checkbox"/> Initial Permit   | <input type="checkbox"/> Renewal of Operating Permit        | <input type="checkbox"/> Asphalt General Permit            |
| <input type="checkbox"/> Review Request   | <input type="checkbox"/> Revocation of Operating Permit     | <input type="checkbox"/> Alternate Emission Factor Request |
| <input type="checkbox"/> Interim Approval | <input type="checkbox"/> Relocation of Portable Source      | <input type="checkbox"/> Acid Deposition (Phase II)        |
| <input type="checkbox"/> Site Closure     | <input type="checkbox"/> Emission Reduction Credit Registry |  |

Transition (between permit levels) *From:* Exemption *To:* Registration

- |  |  |   |
|--|--|---|
| <input type="checkbox"/> Administrative Amendment: | <input type="checkbox"/> Company Name Change                     | <input type="checkbox"/> Change of Responsible Official |
|  | <input type="checkbox"/> Correction to Non-Technical Information | <input type="checkbox"/> Notice Only Change             |
|  | <input type="checkbox"/> Other (specify):                        |   |

- Modification:
- |   |  |
|---|--|
| <input checked="" type="checkbox"/> New Emission Unit or Control Device | <input type="checkbox"/> Modified Emission Unit or Control Device        |
| <input type="checkbox"/> New Applicable Permit Requirement              | <input type="checkbox"/> Change to Applicability of a Permit Requirement |
| <input type="checkbox"/> Prevention of Significant Deterioration        | <input type="checkbox"/> Emission Offset                                 |
| <input type="checkbox"/> Minor Source Modification                      | <input type="checkbox"/> Significant Source Modification                 |
| <input type="checkbox"/> Minor Permit Modification                      | <input type="checkbox"/> Significant Permit Modification                 |
| <input type="checkbox"/> Other (specify):                               |  |

**7. Is this an application for an initial construction and/or operating permit for a "Greenfield" Source?**  Yes  No

**8. Is this an application for construction of a new emissions unit at an Existing Source?**  Yes  No

### PART B: Pre-Application Meeting

Part B specifies whether a meeting was held or is being requested to discuss the permit application.

9. Was a meeting held between the company and IDEM prior to submitting this application to discuss the details of the project?

No       Yes:    *Date:*

10. Would you like to schedule a meeting with IDEM management and your permit writer to discuss the details of this project?

No       Yes:    *Proposed Date for Meeting:*

### PART C: Confidential Business Information

Part C identifies permit applications that require special care to ensure that confidential business information is kept separate from the public file.

Claims of confidentiality must be made at the time the information is submitted to IDEM, and must follow the requirements set out in the Indiana Administrative Code (IAC). To ensure that your information remains confidential, refer to the IDEM, OAQ information regarding submittal of confidential business information. For more information on confidentiality for certain types of business information, please review IDEM's Nonrule Policy Document Air-031-NPD regarding Emission Data.

11. Is any of the information contained within this application being claimed as **Confidential Business Information**?

No       Yes

### PART D: Certification Of Truth, Accuracy, and Completeness

Part D is the official certification that the information contained within the air permit application packet is truthful, accurate, and complete. Any air permit application packet that we receive without a signed certification will be deemed incomplete and may result in denial of the permit.

For a Part 70 Operating Permit (TVOP) or a Source Specific Operating Agreement (SSOA), a "responsible official" as defined in 326 IAC 2-7-1(34) must certify the air permit application. For all other applicants, this person is an "authorized Individual" as defined in 326 IAC 2-1.1-1(1).

*I certify under penalty of law that, based on information and belief formed after reasonable inquiry, the statements and information contained in this application are true, accurate, and complete.*

Mark Allaman  
Name (typed)

Managing Director  
Title

*Mark Allaman*  
Signature

6-18-2024  
Date



**OAQ GENERAL SOURCE DATA APPLICATION**  
**GSD-01: Basic Source Level Information**  
 State Form 50640 (R5 / 1-10)  
 INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT

**IDEM – Office of Air Quality – Permits Branch**  
 100 N. Senate Avenue, MC 61-53 Room 1003  
 Indianapolis, IN 46204-2251  
 Telephone: (317) 233-0178 or  
 Toll Free: 1-800-451-6027 x30178 (within Indiana)  
 Facsimile Number: (317) 232-6749  
[www.IN.gov/idem](http://www.IN.gov/idem)

- NOTES:**
- The purpose of GSD-01 is to provide essential information about the entire source of air pollutant emissions. GSD-01 is a required form.
  - Detailed instructions for this form are available on the Air Permit Application Forms website.
  - All information submitted to IDEM will be made available to the public unless it is submitted under a claim of confidentiality. Claims of confidentiality must be made at the time the information is submitted to IDEM, and must follow the requirements set out in 326 IAC 17.1-4-1. Failure to follow these requirements exactly will result in your information becoming a public record, available for public inspection.

**PART A: Source / Company Location Information**

<b>1. Source / Company Name:</b> Oaktown 1 / Keyrock Environment LLC		<b>2. Plant ID:</b> –	
<b>3. Location Address:</b> North Chattin Road & North Emison Mill Road			
<b>City:</b> Oak Town	<b>State:</b> IN	<b>ZIP Code:</b> 47561 –	
<b>4. County Name:</b> Knox		<b>5. Township Name:</b> Busseron	
<b>6. Geographic Coordinates:</b>			
<b>Latitude:</b> 38.812410°		<b>Longitude:</b> -87.442870°	
<b>7. Universal Transferal Mercadum Coordinates (if known):</b>			
<b>Zone:</b> 16	<b>Horizontal:</b> E 461550.00	<b>Vertical:</b> N 4296053.00	
<b>8. Adjacent States:</b> Is the source located within 50 miles of an adjacent state? <input type="checkbox"/> No <input checked="" type="checkbox"/> Yes – <i>Indicate Adjacent State(s):</i> <input checked="" type="checkbox"/> Illinois (IL) <input type="checkbox"/> Michigan (MI) <input type="checkbox"/> Ohio (OH) <input type="checkbox"/> Kentucky (KY)			
<b>9. Attainment Area Designation:</b> Is the source located within a non-attainment area for any of the criteria air pollutants? <input checked="" type="checkbox"/> No <input type="checkbox"/> Yes – <i>Indicate Nonattainment Pollutant(s):</i> <input type="checkbox"/> CO <input type="checkbox"/> Pb <input type="checkbox"/> NO <sub>x</sub> <input type="checkbox"/> O <sub>3</sub> <input type="checkbox"/> PM <input type="checkbox"/> PM <sub>10</sub> <input type="checkbox"/> PM <sub>2.5</sub> <input type="checkbox"/> SO <sub>2</sub>			
<b>10. Portable / Stationary:</b> Is this a portable or stationary source? <input checked="" type="checkbox"/> Portable <input type="checkbox"/> Stationary			

**PART B: Source Summary**

<b>11. Company Internet Address (optional):</b>
<b>12. Company Name History:</b> Has this source operated under any other name(s)? <input checked="" type="checkbox"/> No <input type="checkbox"/> Yes – <i>Provide information regarding past company names in Part I, Company Name History.</i>
<b>13. Portable Source Location History:</b> Will the location of the portable source be changing in the near future? <input checked="" type="checkbox"/> Not Applicable <input type="checkbox"/> No <input type="checkbox"/> Yes – <i>Complete Part J, Portable Source Location History, and Part K, Request to Change Location of Portable Source.</i>
<b>14. Existing Approvals:</b> Have any exemptions, registrations, or permits been issued to this source? <input checked="" type="checkbox"/> No <input type="checkbox"/> Yes – <i>List these permits and their corresponding emissions units in Part M, Existing Approvals.</i>
<b>15. Unpermitted Emissions Units:</b> Does this source have any unpermitted emissions units? <input checked="" type="checkbox"/> No <input type="checkbox"/> Yes – <i>List all unpermitted emissions units in Part N, Unpermitted Emissions Units.</i>
<b>16. New Source Review:</b> Is this source proposing to construct or modify any emissions units? <input type="checkbox"/> No <input checked="" type="checkbox"/> Yes – <i>List all proposed new construction in Part O, New or Modified Emissions Units.</i>
<b>17. Risk Management Plan:</b> Has this source submitted a Risk Management Plan? <input checked="" type="checkbox"/> Not Required <input type="checkbox"/> No <input type="checkbox"/> Yes → Date submitted: _____ EPA Facility Identifier: – –



**PART C: Source Contact Information**

**IDEM will send the original, signed permit decision to the person identified in this section. This person MUST be an employee of the permitted source.**

18. Name of Source Contact Person: Joe Lane

19. Title (optional): Permitting and Regulatory Manager

20. Mailing Address: 153 Jackson Avenue

City: Madison

State: WV

ZIP Code: 25130 –

21. Electronic Mail Address (optional): jlane@keyrockenergy.com

22. Telephone Number: ( 304 ) 989 – 5533

23. Facsimile Number (optional): ( ) –

**PART D: Authorized Individual/Responsible Official Information**

IDEM will send a copy of the permit decision to the person indicated in this section, if the Authorized Individual or Responsible Official is different from the Source Contact specified in Part C.

24. Name of Authorized Individual or Responsible Official: Mark Allaman

25. Title: Managing Director

26. Mailing Address: P.O.Box 2223

City: Johnson City

State: TN

ZIP Code: 37605 –

27. Telephone Number: ( 304 ) 573 – 9873

28. Facsimile Number (optional): ( ) –

29. Request to Change the Authorized Individual or Responsible Official: Is the source officially requesting to change the person designated as the Authorized Individual or Responsible Official in the official documents issued by IDEM, OAQ? The permit may list the title of the Authorized Individual or Responsible Official in lieu of a specific name.

No  Yes – **Change Responsible Official to:**

**PART E: Owner Information**

30. Company Name of Owner: Keyrock Environment LLC

31. Name of Owner Contact Person: Bruce Horman

32. Mailing Address: P.O. Box 2223

City: Johnson City

State: TN

ZIP Code: 37605 –

33. Telephone Number: ( 618 ) 443 – 8753

34. Facsimile Number (optional): ( ) –

34. Operator: Does the "Owner" company also operate the source to which this application applies?

No – Proceed to Part F below.  Yes – Enter "SAME AS OWNER" on line 35 and proceed to Part G below.

**PART F: Operator Information**

35. Company Name of Operator: SAME AS OWNER

36. Name of Operator Contact Person:

37. Mailing Address:

City:

State:

ZIP Code: –

38. Telephone Number: ( ) –

39. Facsimile Number (optional): ( ) –

**PART G: Agent Information**

**40. Company Name of Agent:** Keyrock Environment

**41. Type of Agent:**  Environmental Consultant  Attorney  Other (specify):

**42. Name of Agent Contact Person:** Joe Lane

**43. Mailing Address:** 153 Jackson Avenue

**City:** Madison

**State:** WV

**ZIP Code:** 25130 –

**44. Electronic Mail Address (optional):** jlane@keyrockenergy.com

**45. Telephone Number:** ( 304 ) 989 – 5533

**46. Facsimile Number (optional):** ( ) –

**47. Request for Follow-up:** Does the “Agent” wish to receive a copy of the preliminary findings during the public notice period (if applicable) and a copy of the final determination?  No  Yes

**PART H: Local Library Information**

**48. Date application packet was filed with the local library:** Yes

**49. Name of Library:** Knox County Public Library

**50. Name of Librarian (optional):**

**51. Mailing Address:** 201 S Ledgerwood St, Carlisle, IN 47838

**City:** Carlisle

**State:** IN

**ZIP Code:** 47838

**52. Internet Address (optional):**

**53. Electronic Mail Address (optional):** blemonskcpl@gmail.com

**54. Telephone Number:** ( 812 ) 398 – 4480

**55. Facsimile Number (optional):** ( ) –

**PART I: Company Name History (if applicable)**

Complete this section only if the source has previously operated under a legal name that is different from the name listed above in Section A.

56. Legal Name of Company	57. Dates of Use
	to
	to
	to
	to
	to
	to
	to
	to
	to
	to

**58. Company Name Change Request:** Is the source officially requesting to change the legal name that will be printed on all official documents issued by IDEM, OAQ?

No  Yes – **Change Company Name to:**

**PART J: Portable Source Location History (if applicable)**

Complete this section only if the source is portable and the location has changed since the previous permit was issued. The current location of the source should be listed in Section A.

59. Plant ID	60. Location of the Portable Source	61. Dates at this Location
—		to
—		to
—		to
—		to
—		to
—		to
—		to
—		to
—		to
—		to
—		to
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—		to
—		to
—		to
—		to

**PART K: Request to Change Location of Portable Source (if applicable)**

Complete this section to request a change of location for a portable source.

**62. Current Location:**

**Address:**

**City:**

**State:**

**ZIP Code:** —

**County Name:**

**63. New Location:**

**Address:**

**City:**

**State:**

**ZIP Code:** —

**County Name:**

**PART L: Source Process Description**

Complete this section to summarize the main processes at the source.

64. Process Description	65. Products	66. SIC Code	67. NAICS Code
Sanitary Services		4959	

**PART M: Existing Approvals (if applicable)**

Complete this section to summarize the approvals issued to the source since issuance of the main operating permit.

68. Permit ID	69. Emissions Unit IDs	70. Expiration Date

**PART N: Unpermitted Emissions Units (if applicable)**

Complete this section only if the source has emission units that are not listed in any permit issued by IDEM, OAQ.

71. Emissions Unit ID	72. Type of Emissions Unit	73. Actual Dates		
		Began Construction	Completed Construction	Began Operation

**PART O: New or Modified Emissions Units (if applicable)**

Complete this section only if the source is proposing to add new emission units or modify existing emission units.

74. Emissions Unit ID	75. NEW	76. MOD	77. Type of Emissions Unit	78. Estimated Dates		
				Begin Construction	Complete Construction	Begin Operation
		X	(1)Enclosed Flares	5/15/2023	5/24/2022	6/15/2023

	<b>enter:</b>
<b>State of Operation</b>	IN
<b>Flare type</b>	Zink Trailer 1800
<b>Target flow rate for source [scfm]</b>	403.0
<b>Methane Concentration [%]</b>	100%
<b>CH4 heating value [Btu/scf]</b>	910
<b>Max Heat Release per Flare [MMBtu/hr]</b>	22.0
<b>Number of Flares Required for Target</b>	1

<i>Emission Source</i>	<i>Max Heat Release</i>		<i>Emissions Factor</i>		<i>Emissions</i>	
	<i>Per Flare</i>	<i>Total Site</i>	<i>Pollutant</i>	<i>Value</i>	<i>(lb/hr)</i>	<i>(ton/year)</i>
Zink Trailer 1800 Flares	22.0 MMBTU/hr	22.0 MMBTU/hr	CO	0.1500 lb/mmbtu	3.301	14.5
			NOx	0.1000 lb/mmbtu	2.200	9.6
			PM	17.0000 lb/mmscf	0.411	1.8
			PM10	0.0000 lb/mmscf	-	-
			SO2	0.0000 lb/mmbtu	-	-
			VOM	0.0000 lb/mmbtu	-	-
			HAPS	0.0000 lb/mmbtu	-	-

	<b>enter:</b>
<b>State of Operation</b>	IN
<b>Flare type</b>	AB-200
<b>Target flow rate for source [scfm]</b>	577.0
<b>Methane Concentration [%]</b>	100%
<b>CH4 heating value [Btu/scf]</b>	910
<b>Max Heat Release per Flare [MMBtu/hr]</b>	30.0
<b>Number of Flares Required for Target</b>	1

<i>Total Site Emissions</i>	
<i>Emissions</i>	
<i>(lb/hr)</i>	<i>(ton/year)</i>
6.451	28.3
4.721	20.7
0.567	2.5
0.000	0.0
-	-
-	-
-	-

CO  
NOX  
PM

<i>Emission Source</i>	<i>Max Heat Release</i>		<i>Emissions Factor</i>		<i>Emissions</i>	
	<i>Per Flare</i>	<i>Total Site</i>	<i>Pollutant</i>	<i>Value</i>	<i>(lb/hr)</i>	<i>(ton/year)</i>
AB-200 Flares	31.5 MMBTU/hr	31.5 MMBTU/hr	CO	0.1000 lb/mmbtu	3.150	13.8
			NOx	0.0800 lb/mmbtu	2.520	11.0
			PM	4.5000 lb/mmscf	0.156	0.7
			PM10	0.0000 lb/mmscf	-	-
			SO2	0.0000 lb/mmbtu	-	-
			VOM	0.0000 lb/mmbtu	-	-
			HAPS	0.0000 lb/mmbtu	-	-

**DATE:** December 15, 2022  
**TO:** Keyrock Energy  
**REFERENCE:** Enclosed Flare (ZTOF<sup>®</sup>) – Estimated Emissions

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**John Zink Model Number: 6'X30' ZTOF**

**Design Criteria**

**Flare Gas Stream**

Type: ..... Coal Mine Methane Gas  
Composition: ..... 100% CH<sub>4</sub> (design) 30 – 100% CH<sub>4</sub> (range); balance N<sub>2</sub>  
Lower Heating Value: ..... 910 BTU/SCF (design)  
Temperature: ..... 90°F (design)  
Flame Arrester Inlet Pressure: ..... 10" H<sub>2</sub>O  
Flow Rate: ..... 403 SCFM (design normalized at 100% CH<sub>4</sub>)  
200 – 1,343 SCFM (range)  
Waste Gas Heat Release: ..... 22 MMBTU/hr (maximum)

**Flare Emission Range–(Design Flow with Alternate Composition  
Coal Mine Methane Gas [<=65% CH<sub>4</sub>; balance N<sub>2</sub>])**

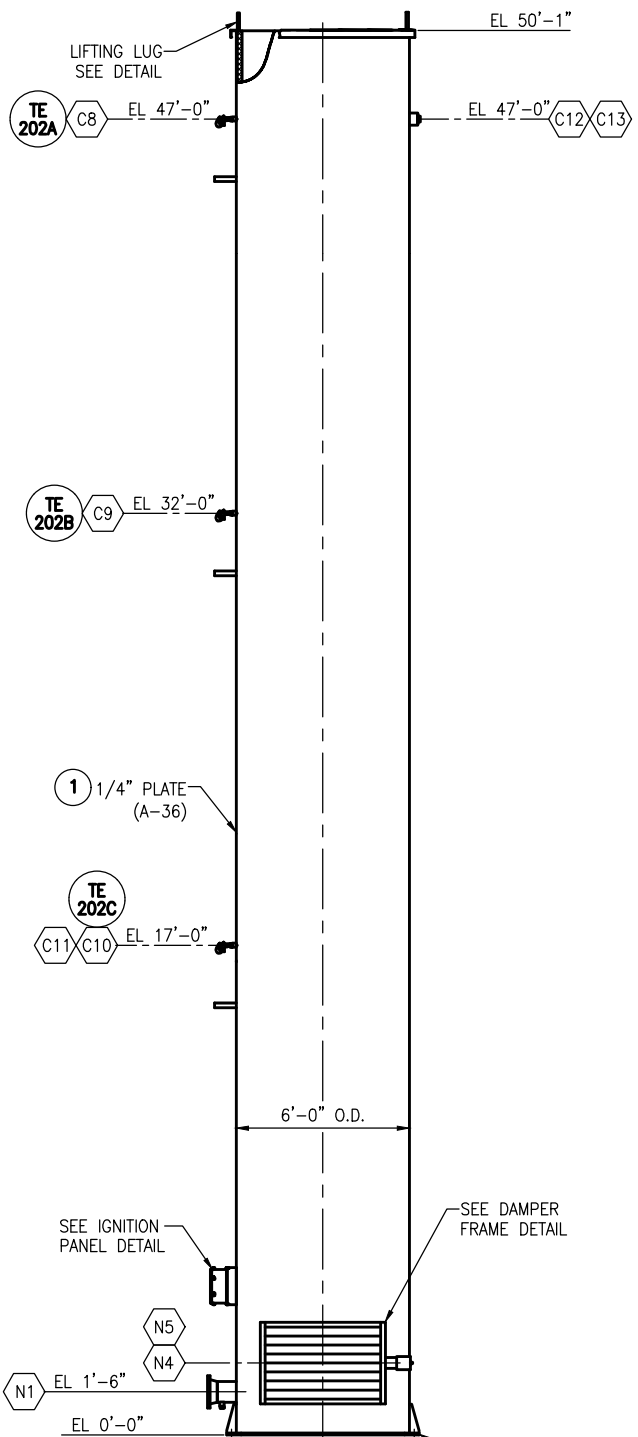
Operating Temperature	1600°F	1800°F
Methane Destruction Efficiency <sup>(1)</sup>	98%	99%
NO <sub>x</sub> , lb / MMBTU <sup>(2)</sup>	0.08	0.10
CO, lb / MMBTU <sup>(3)</sup>	0.20	0.15
SO <sub>x</sub> <sup>(4)</sup>	N/A	
Particulate Matter, lb/10 <sup>6</sup> dscf <sup>(5)</sup>	17	

**Flare Emission Range–(Design Flow with Coal Mine Methane Gas (100% CH<sub>4</sub>))**

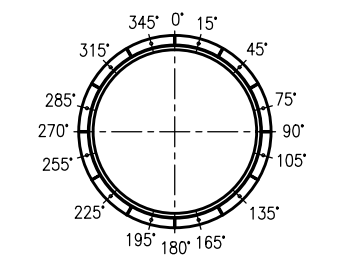
Operating Temperature	1400°F - 1800°F
Methane Destruction Efficiency <sup>(1)</sup>	> 98%
NO <sub>x</sub> , lb / MMBTU <sup>(2)</sup>	0.15
CO, lb / MMBTU <sup>(3)</sup>	0.20
SO <sub>x</sub> <sup>(4)</sup>	N/A
Particulate Matter, lb/10 <sup>6</sup> dscf <sup>(5)</sup>	17

- (1) Typical sulphur containing compounds are expected to have greater than 98% oxidation efficiency.  
 (2) Excludes NO<sub>x</sub> from fixed nitrogen.  
 (3) Excludes CO contribution present in the gas.  
 (4) Sulphur containing compounds in the inlet gas stream will be directly converted to SO<sub>x</sub> based on the destruction efficiency indicated in note 1.  
 (5) Meets AP-42 emission factor as it relates to particulate matter directly generated from combustion. Excludes particulate matter that has origins unrelated to combustion (e.g. particles in the gas stream, dust sucked through the dampers, etc.).

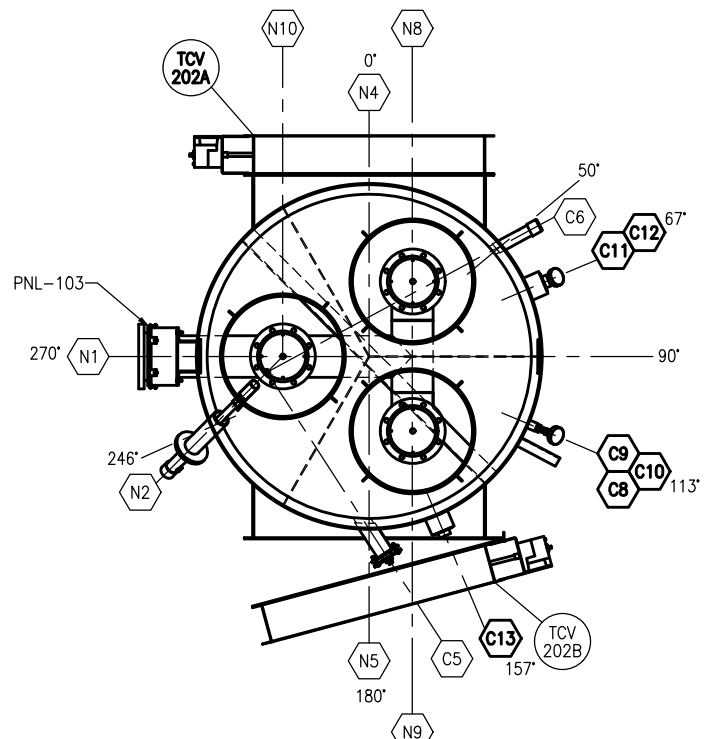
**NOTE:** *Estimated emissions are based on field tests of operating units and the higher heating value (HHV) of the gas. Destruction efficiency, NO<sub>x</sub>, and CO emissions shown are valid for combustion of specified gas only.*



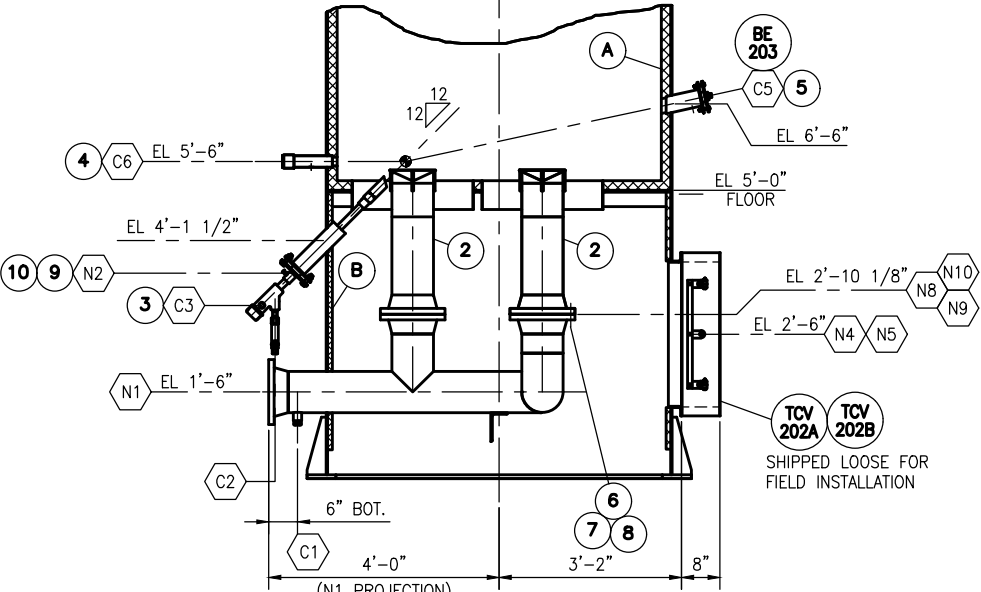
ELEVATION  
NOT TRUE ORIENTATION



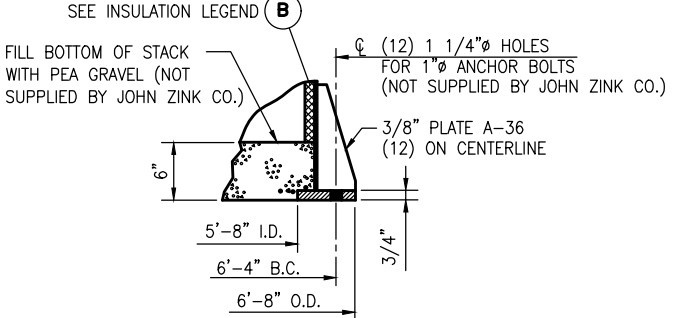
FOUNDATION BOLT PATTERN



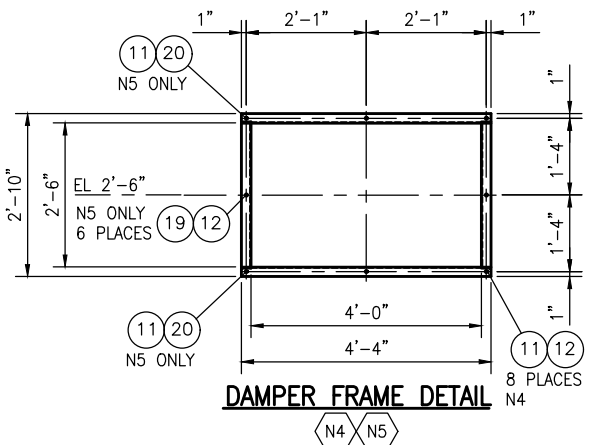
PLAN VIEW  
TRUE ORIENTATION



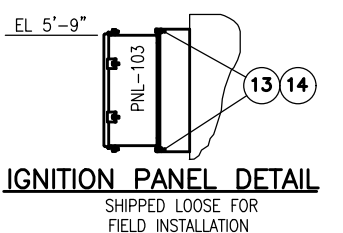
PARTIAL SECTIONAL ELEVATION  
NOT TRUE ORIENTATION



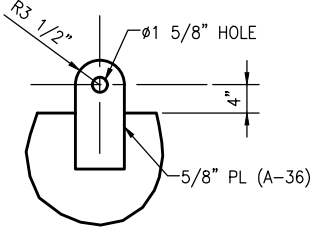
BASE PLATE DETAIL



DAMPER FRAME DETAIL



IGNITION PANEL DETAIL  
SHIPPED LOOSE FOR FIELD INSTALLATION



LIFTING LUG DETAIL  
(2 REQ'D. LOCATED AT 90° AND 270°)  
(NOTE: CUT OFF LUGS AFTER STACK ERECTION)

PARTS LIST				
ITEM	QTY	DESCRIPTION	MK: NO	MATERIAL
1	1	ENCLOSED ZTOF FLARE	D-701-1	
2	3	8" FLARE TIP	D-ST-1329-1	
3	1	PILOT ASSEMBLY	ST11915-1	
4	1	2" SIGHT PORT	CA-ST-0600-1	
5	1	SWIVEL SCANNER MOUNT ASSEMBLY	ST12431-1	
6	3	GASKET: 8" 150# RF x 1/16" THK	G8-150-R	NON-ASB
7	24	BOLT, STUD: 3/4" x 4 1/2" LG (PLATED)	SB-6-4 1/2	A-193-B7
8	48	NUT, HVY HEX: 3/4-10NC (PLATED)	SN-6	A-194-2H
9	4	BOLT, HEX HD: 5/8" x 2 1/2" LG (PLATED)	HB-5-2 1/2	A-307
10	4	NUT, REG HEX: 5/8-11NC (PLATED)	HN-5	A-307
11	10	BOLT, HEX HD: 3/8" x 1 1/4" LG (PLATED)	HB-3-1 1/4	A-307
12	16	NUT, REG HEX: 3/8-16NC (PLATED)	HN-3	A-307
13	4	BOLT, HEX HD: 1/4" x 1" LG (PLATED)	HB-2-1	A-307
14	4	NUT, REG HEX: 1/4-20NC (PLATED)	HN-2	A-307
19	6	SCREW, FLAT HD. SL: 3/8-NC x 1" LG. (PLATED)	FH-3-1	A-307
20	2	WING NUT: 3/8-16NC (PLATED)	WN-3	A-307

NOZZLE LEGEND		
MK	QTY	DESCRIPTION
N1	1	GAS CONNECTION: 8" 150# F.F.
N2	1	PILOT MTG CONN: 3/8" PLATE FLG W/ 3" 150# DRILLING
N4-5	2	DAMPER CONN - SEE DETAIL (N5 HINGED)
N8-10	3	FLARE TIP CONN - 8" 150# RF
C1	1	DRAIN - 1" FNPT WITH PLUG
C2	1	PILOT GAS CONN - 1/2" FNPT
C3	1	PILOT CONDUIT CONN - 1/2" FNPT
C5	1	SCANNER CONN - 1" MNPT
C6	1	SIGHT PORT - 2" MNPT
C8-11	4	THERMOCOUPLE CONN - 1" FNPT
C12-13	2	SAMPLE PORT 4" FNPT WITH PLUG

DESIGN DATA	
WINDLOAD (PER ASCE 7-95, EXP. C)	110 M.P.H.
SEISMIC (PER UBC-1994)	ZONE 4
SHEAR @ BASE	7.1 K
MOMENT @ BASE	186.0 K-FT
DEADLOAD	11.7 K
SHELL DESIGN TEMPERATURE	500° F
CORROSION ALLOWANCE	0.0

**LIFTING NOTES**  
 A: MAIN CRANE AT TOP REQUIRES SPREADER BAR, (NOT SUPPLIED BY JOHN ZINK CO.)  
 B: CHOKE STACK AT APPROX. 5'-0" EL WITH TAILING CRANE  
 C: LIFTING LUGS DESIGNED FOR 13 1/2 TON CROSBY ANCHOR SHACKLE AND VERTICAL SLINGS.

**INSULATION LEGEND**  
 A: (1) OVERLAPPING LAYER OF 1" THICK 8 LB DENSITY, 2300° F. BACKED WITH (1) LAYER, 1" THICK 6 LB DENSITY, 2300° F. ON INCONEL PINS AND KEEPERS.  
 B: (1) OVERLAPPING LAYER OF 1" THICK 6 LB DENSITY, 2300° F. ON INCONEL PINS AND KEEPERS.

**GENERAL NOTES**  
 1. TAG NUMBERS TO BE PRECEDED BY JOHN ZINK SALES ORDER NUMBER.  
 2. FLARE ASSEMBLY IS NOT TO BE USED AS AN ANCHOR POINT FOR CUSTOMER PIPING.  
 3. PRE-TENSION ANCHOR BOLTS BY THE "TURN OF THE NUT" METHOD/AISC.  
 4. BOLT HOLES TO STRADDLE NORMAL CENTER LINES UNLESS NOTED.  
 5. FINISH EXTERIOR CARBON STEEL, INSIDE OF SKIRT, BOTTOM OF FLOOR PLATE, AND MANIFOLD. SANDBLAST PER SSPC-SP-6 AND APPLY INORGANIC ZINC RICH PRIMER (2-4 MILS D.F.T.)

FOR PARTS AND SERVICE: • TEL: 1-800-755-4252 • FAX: (918) 234-1968						
NO.	REVISION	DESCRIPTION	BY	CHK	APP	DATE

FOR A LIST OF RELEVANT PATENTS AND TRADEMARKS, PLEASE SEE [JOHNZINKHAMWORTHY.COM/LEGAL-NOTICES](http://johnzinkhamworthy.com/legal-notices)

**JOHN ZINK HAMWORTHY COMBUSTION.**  
JOHN ZINK COMPANY, LLC

FOR: ENVIRONMENTAL COMMODITIES CORP.  
USER: OXBOW MINING

ENCLOSED ZTOF FLARE  
6'-0" O.D. x 50' H.

JOBSITE: SOMERSET, COLORADO

S.O. NO: BF-9201954  
P.O. NO: ECCW20181115  
SCALE: NOT TO SCALE

DRAWN: GFG  
DATE: 12/7/18

CHK: GFG  
DATE: 12/7/18

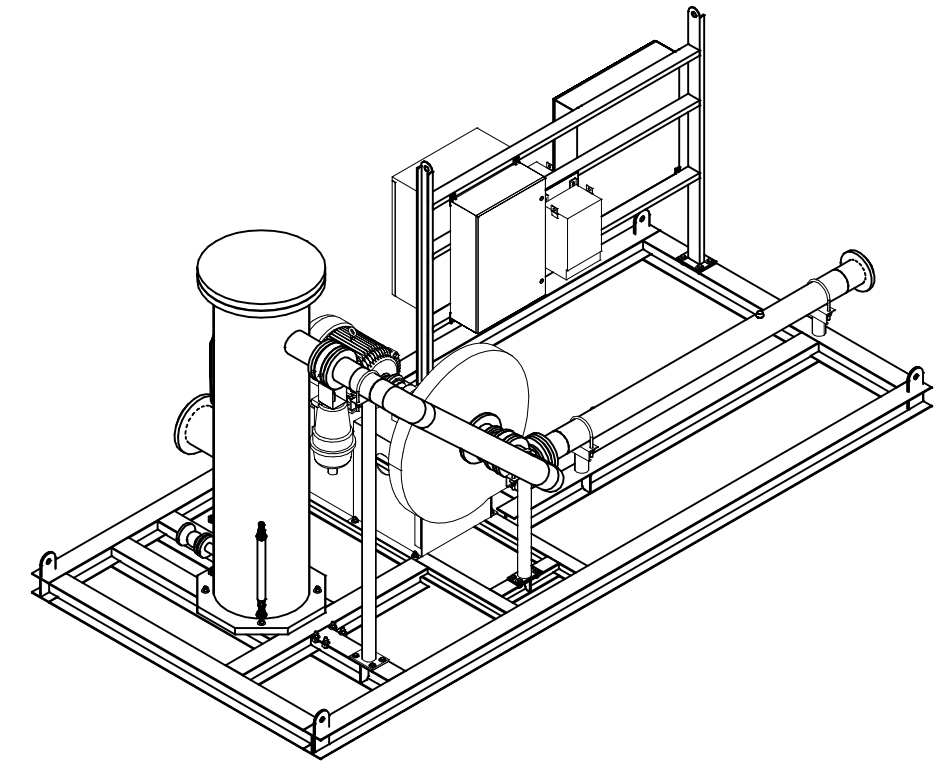
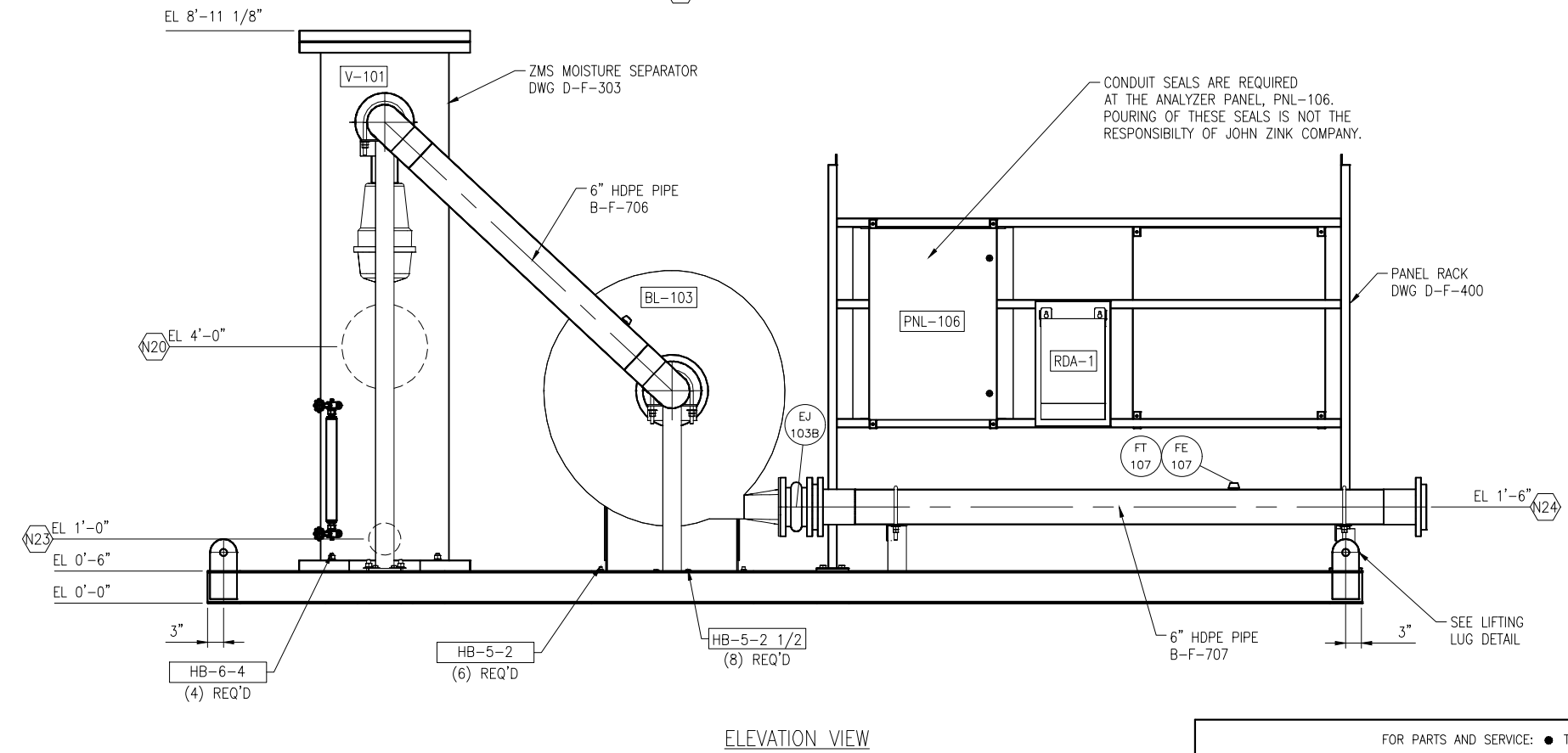
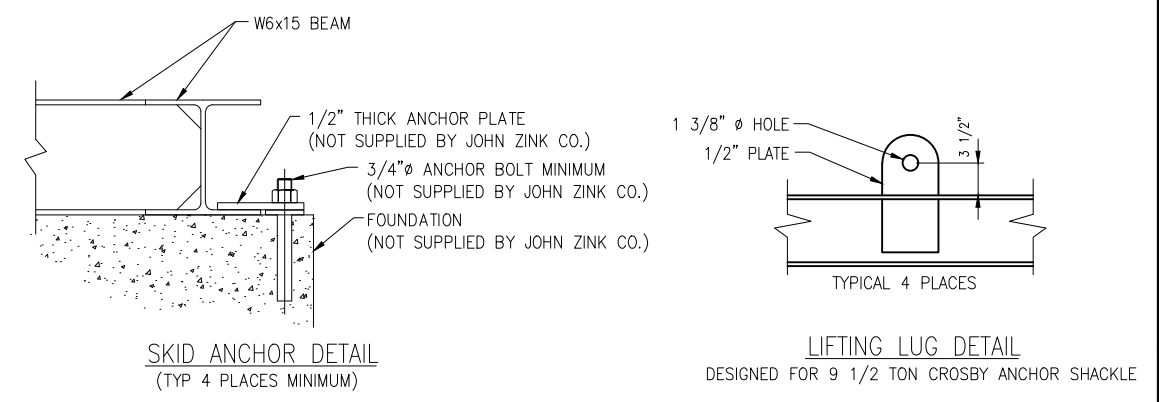
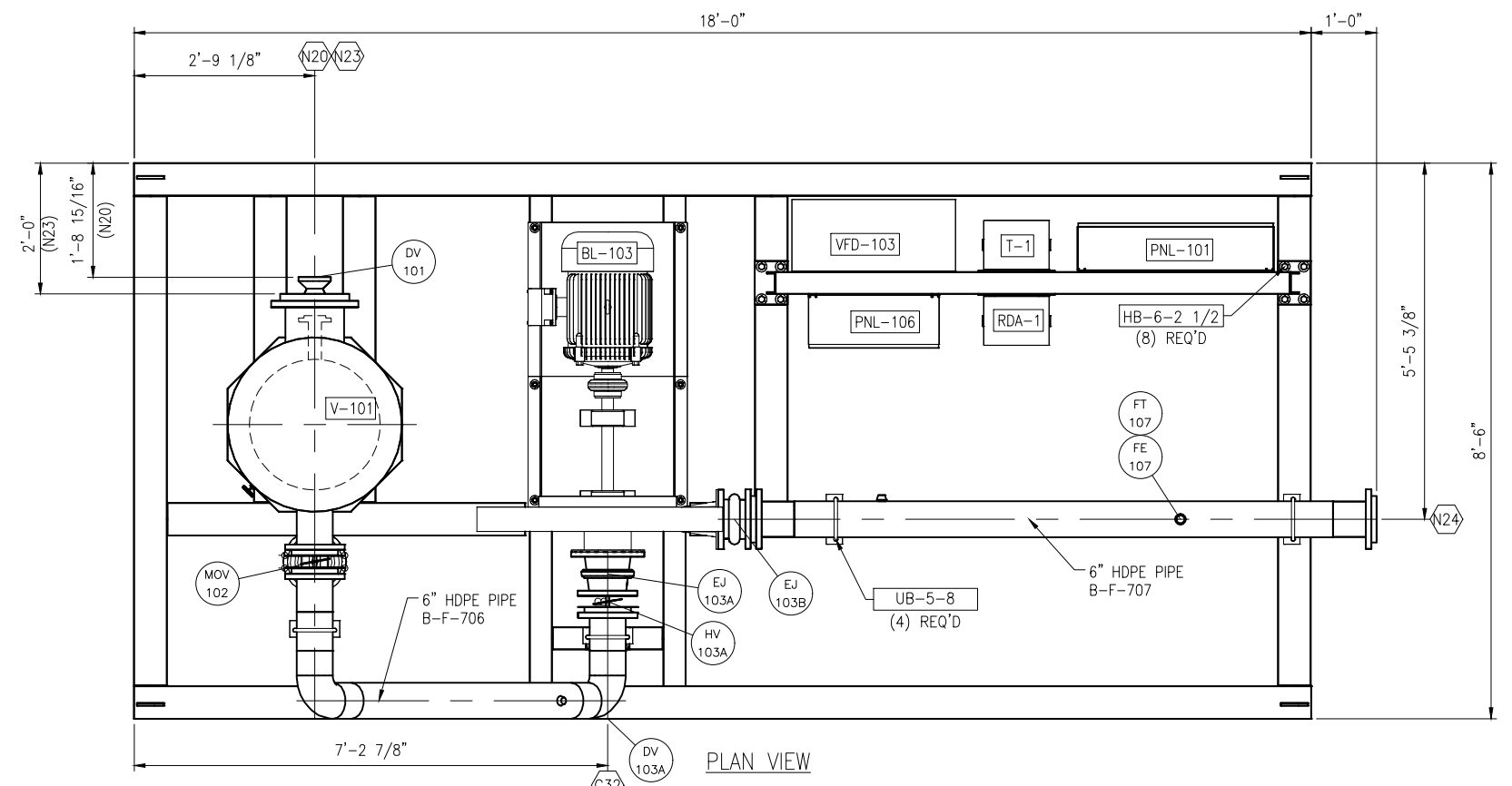
APP: JPR  
DATE: 1/10/19

SHEET: 1 OF 1

DRAWING NUMBER: D-F-9201954-301

REV. 0

NOZZLE LEGEND		
MK	QTY	DESCRIPTION
N20	1	GAS INLET: 10" FLANGE ADAPTER WITH 150# BACK-UP RING
N23	1	CONDENSATE DRAIN: 2" FLANGE ADAPTER WITH 150# BACK-UP RING
N24	1	GAS OUTLET: 6" 150# RF FLANGE
C32	1	BLOWER DRAIN: 1/2" NPT



- NOTES
1. PREFIX ALL MK: NO'S WITH SALES ORDER NUMBER.
  2. WEIGHT APPROX. 5,500 LBS.
  3. JOHN ZINK RECOMMENDS THAT A SPREADER BAR BE USED TO LIFT SKID
  4. SKID DESIGN AND CONSTRUCTION IS IN ACCORDANCE WITH STRUCTURAL REQUIREMENTS FOR SEISMIC ZONE 4.
  5. ELECTRICAL AREA CLASSIFICATION NON HAZARDOUS.
  6. SKID, AND PIPE SUPPORTS GALVANIZED PER ASTM A-123.

FOR PARTS AND SERVICE: • TEL: 1-800-755-4252 • FAX: (918) 234-1968						
NO.	REVISION	DESCRIPTION	BY	CHK	APP	DATE

For a list of relevant patents and trademarks, please see [johnzinkhamworthy.com/legal-notices](http://johnzinkhamworthy.com/legal-notices)

**JOHN ZINK HAMWORTHY**  
COMBUSTION.  
JOHN ZINK COMPANY, LLC

FOR: ENVIRONMENTAL COMMODITIES CORP.	BLOWER SKID ASSEMBLY		
USER: OXBOW MINING			
JOB SITE: SOMERSET, COLORADO			
S.O. NO: BF-9201954	DRAWN: MR	CHK: GFG	APP: JPR
P.O. NO: ECCW20181115	DATE: 12/12/18	DATE: 12/12/18	DATE: 1/10/19
SCALE: NOT TO SCALE	DRAWING NUMBER: D-F-9201954-304		SHEET: 1 OF 1
			REV. 0

File Name: c:\active\p-repor\9201954\drafting\drawings\304s110.dwg Plot Date: 1/10/2019 3:53 PM





To: Joe Stone  
Keyrock Energy

The AB-200 combustor is a non-temperature-controlled system. Following emissions rates are expected (not guaranteed) as stated below at 1700 Deg F and assuming a typical coal mine vent gas composition (methane and inerts, not heavier hydrocarbons):

NOx	0.08 lb/MMBtu
CO	0.1 lb/MMBtu
SOx	0 (N/A)
VOM (Non-Methane and Ethane)	0
PM	4.5 lb/MMSCF
PM 10	4 lb/MMSCF
DRE	≥99%
Tested Capacity w/5' stack extension	577 SCFM

The above emissions factors are based on gas with lower heating value of 910 BTU/scf.

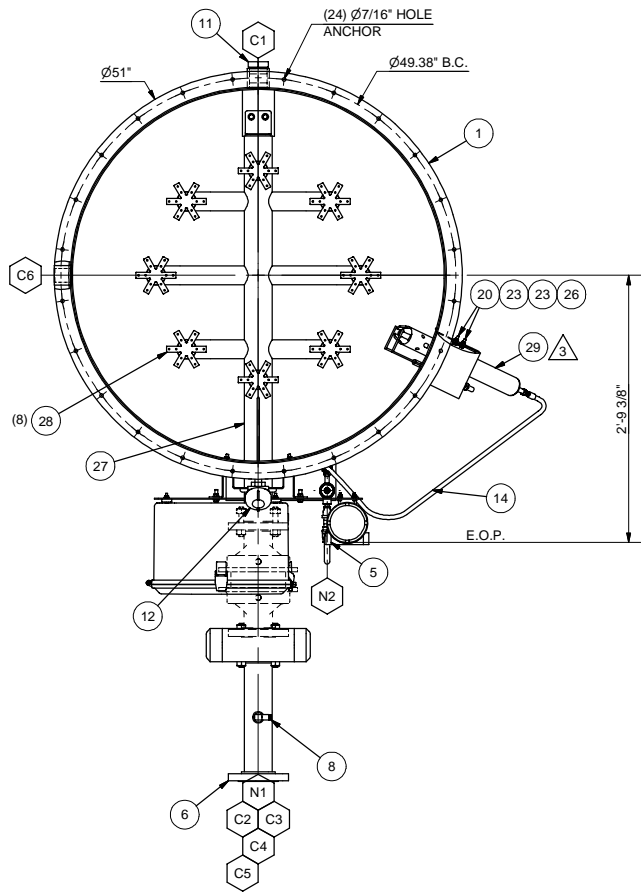
Cimarron submits this letter to Keyrock under the terms of the Non Disclosure Agreement executed between Cimarron and Keyrock on September 25th, 2020, and considers this letter to be "Confidential Information" subject to the duties and obligations therein.

Should you have further questions, please do not hesitate to contact the undersigned.

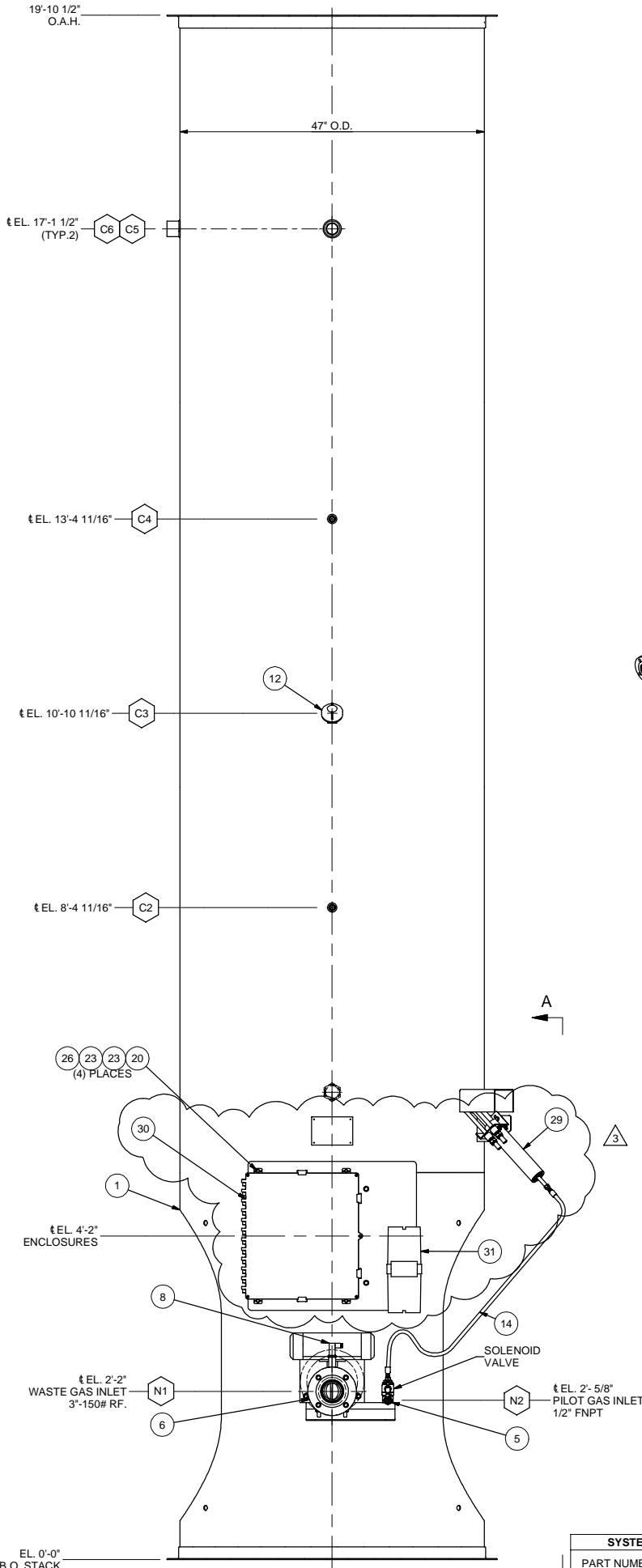
Best Regards,

**Giorgio Sibilias**  
Cimarron | Combustion Products

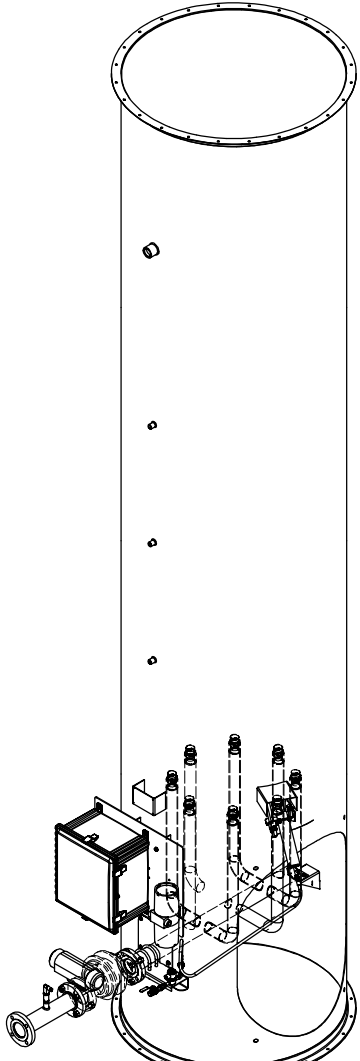
(Cell) 512-247-1557  
[gsibilias@cimarron.com](mailto:gsibilias@cimarron.com)



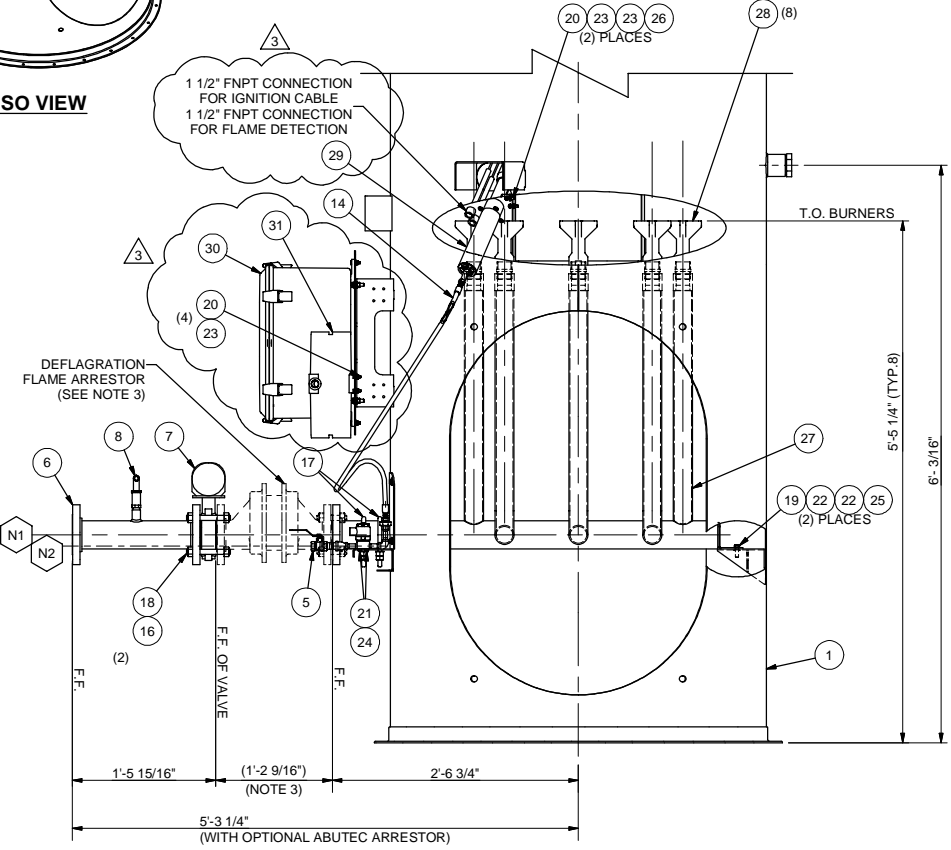
TOP VIEW



FRONT VIEW



ISO VIEW



VIEW A-A

NOZZLE SCHEDULE					
ITEM	TYPE	SERVICE	SIZE	RATING	SPEC
N1	RFSO	WASTE GAS	3"	150#	304SS
N2	FNPT	PILOT GAS	1/2"	150#	304SS
C1	FNPT	SIGHT GLASS	2"	150#	304SS
C2	FNPT	AUXILIARY	1/2"	150#	304SS
C3	FNPT	AUXILIARY	1/2"	150#	304SS
C4	FNPT	THERMOCOUPLE	1/2"	150#	304SS
C5	FNPT	AUXILIARY	1 1/2"	150#	304SS
C6	FNPT	AUXILIARY	1 1/2"	150#	304SS

BILL OF MATERIALS				
ITEM	QTY	PART NUMBER	DESCRIPTION	SPEC
1	1	AB200A200	STACK ASSEMBLY AB200	304 SS
2	-	-	(NOT USED)	-
3	-	-	(NOT USED)	-
4	-	-	(NOT USED)	-
5	1	104832	PILOT GAS TRAIN ASSEMBLY	304 SS
6	1	106767	BURNER INLET SPOOL ASSEMBLY	304 SS
7	1	108517	VALVE BUTTERFLY PNEUMATIC 3IN LP	304 SS
8	1	104281	PRESSURE TRANSMITTER 1/2IN NPT 0-50IN H2O W/ 6IN LEADS	304 SS
9	-	-	(NOT USED)	-
10	-	-	(NOT USED)	-
11	1	104528	SIGHT GLASS 2IN MNPT W/O REFLECTOR	304 SS
12	1	104280	THERMOWELL 9IN X 0.260 BORE 1/2IN MNPT STRAIGHT	304 SS
13	1	104493	IGNITION CABLE EXTERNAL 5FT PROFIRE (NOT SHOWN)	-
14	1	104356	HOSE BRAIDED 1/4IN X 48IN W/ MNPT ENDS	304 SS
15	1	104279	THERMOCOUPLE 9IN TYPE K	304 SS
16	2	104385	GASKET 3IN 150# SPIRAL WOUND CG 316L INNER X CS OUTER X GRAPHITE FILLER GREEN	304 SS
17	2	102692	U-BOLT, 3IN x 1/2IN W/ (2) FLAT WASHERS & (4) HEX NUTS	304 SS
18	4	104698	STUD BOLT, 5/8IN X 5 1/2IN W/ (2) HVY. HEX NUTS EA.	A-193-B8 A-194-8
19	2	154562	BOLT HEX CAP SCREW FULL THREAD 3/8IN-16 UNC x 1-1/4IN F593 GR 18-8	F593-18-8
20	10	154500	BOLT HEX CAP SCREW 1/4IN-20 UNC x 1IN F593 GR 18-8	F593-18-8
21	2	106996	BOLT HEX CAP SCREW FULL THREAD #10-32 UNF x 3/8IN F593 GR 18-8	F593-18-8
22	4	155415	WASHER FLAT 3/8IN NARROW F844 18-8	F844-18-8
23	16	155408	WASHER FLAT 1/4IN NARROW F844 18-8	F844-18-8
24	2	100609	WASHER FLAT #10 NARROW F844 18-8	F844-18-8
25	2	154874	NUT HEX 3/8IN-16 UNC F594 GR 18-8	F594-18-8
26	8	154866	NUT HEX 1/4IN-20 UNC F594 GR 18-8	F594-18-8
27	1	110531	SPIDER BURNER MANIFOLD ASSEMBLY	304 SS
28	8	109583	SPIDER BURNER CASTING, 1 1/2" FNPT (CK20) (NOTE 4)	CK20
29	1	112786	PILOT ASSEMBLY ACP-AB	-
30	1	SEE TABLE	MAIN CONTROL PANEL	-
31	1	113038	PILOT TRANSFORMER ENCLOSURE	-

NOTES: (UNLESS OTHERWISE SPECIFIED)

- ALL BOLT HOLES SHALL STRADDLE COMMON CENTERLINES.
- ALL NOZZLES AND COUPLINGS TO BE CAPPED OR PLUGGED PRIOR TO SHIPPING.
- DEFLAGRATION FLAME ARRESTOR REQUIRED. OPTIONAL ABUTEK ARRESTOR KIT SHOWN AS REFERENCE.
- BURNER DRILLINGS MUST BE CONFIRMED BY ENGINEERING.

SYSTEM DESIGNATION TABLE		
PART NUMBER	VOLTAGE	CONTROL PANEL
940004A	24V DC	112520
940004B	120V AC	112522

UNLESS OTHERWISE SPECIFIED ALL DIMENSIONS ARE IN INCHES. DO NOT SCALE DRAWING.

TOLERANCE:  
 OVERALL ELEVATION ±1"  
 NOZZLE ELEVATION ±1/2"  
 GYRE ELEVATION ±1"  
 FRACTIONS ±1/16"  
 DECIMALS .XX ±.05  
 DECIMALS .XXX ±.030  
 ANGLE SQUARENESS ±1°  
 ACROSS FACE ±1/16"  
 FLANGE ROTATION ±1/16" MAX.

PROPRIETARY INFORMATION  
 THIS DOCUMENT CONTAINS FLARE INDUSTRIES, LLC PROPRIETARY AND CONFIDENTIAL INFORMATION. IT IS LOANED FOR LIMITED PURPOSES ONLY AND REMAINS THE PROPERTY OF FLARE INDUSTRIES, LLC. IT MAY NOT BE REPRODUCED IN WHOLE OR IN PART WITHOUT THE PRIOR WRITTEN CONSENT OF FLARE INDUSTRIES, LLC. THIS DOCUMENT IS TO BE RETURNED UPON REQUEST AND IN ALL EVENTS WITH COMPLETION OF THE USE FOR WHICH IT WAS LOANED.

ABUTEK  
 AUSTIN, TEXAS

FLARE JORDAN  
 FLARE INDUSTRIES, LLC  
 1400 W. BRIDGES BLVD.  
 AUSTIN, TEXAS 78748

SCALE: N.T.S. PROJECT NO: AB 200  
 SHEET 1 OF 1 DWG NO. 940004 REV LEVEL 3

REV	DATE	DESCRIPTION	BY	CHK'D	APPR
3	08/02/19	REPLACED PILOT, X-FORMER, AND CONTROL PANEL	RJ	MLM	MT
2	08/01/18	REPLACED TUBES WITH BURNERS	RJ	SOP	JH
1	8/25/17	CORRECT NOZZLE SCHEDULE N2 SIZE	FPF		
0	5/5/17	ISSUED FOR CONSTRUCTION	FPF	DMR	RLW

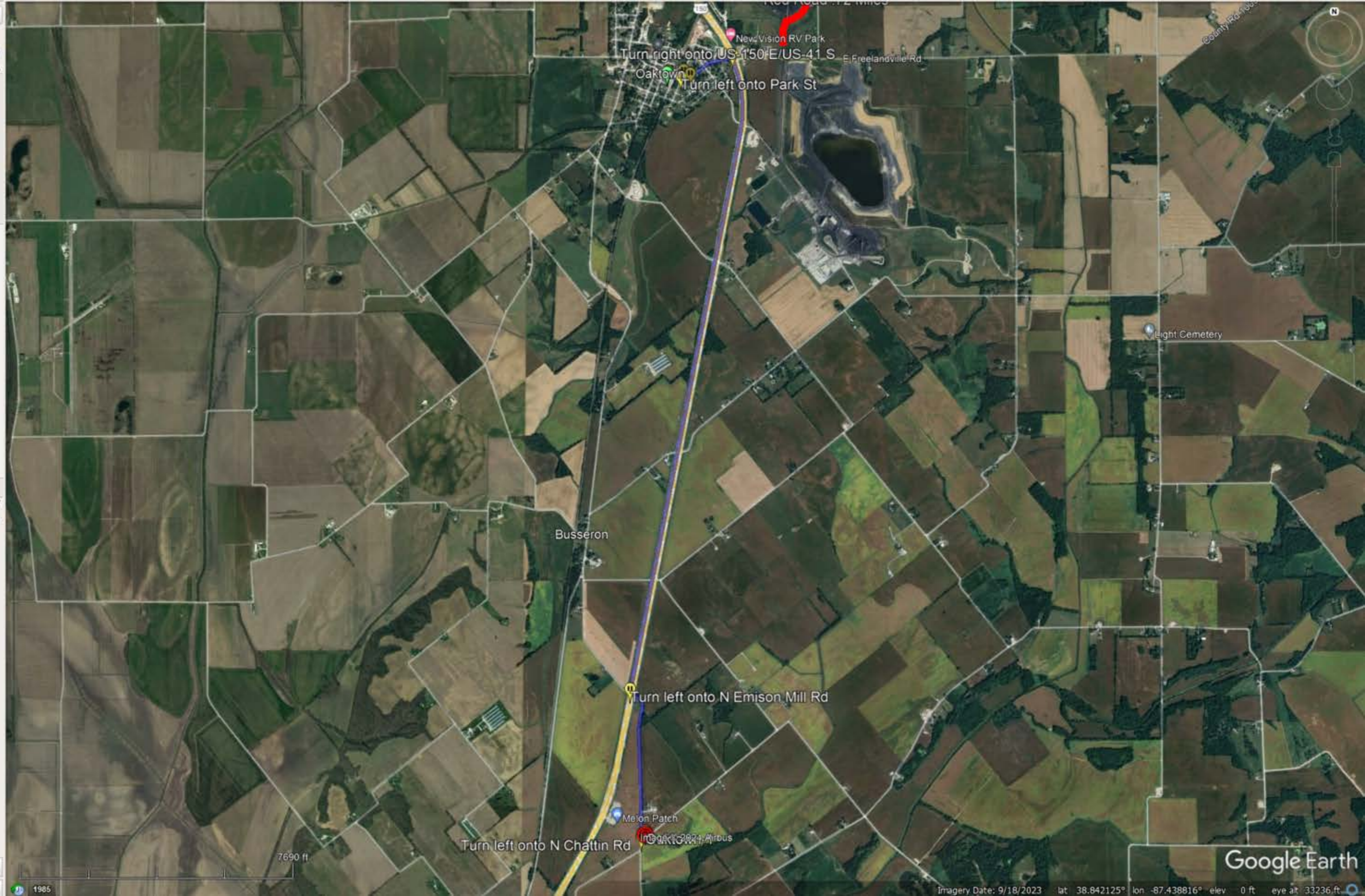
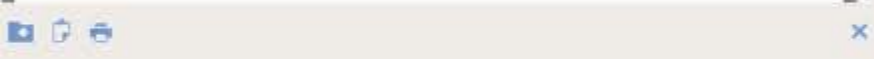
REVISION HISTORY					
CUSTOMER/LOCATION					
ABUTEK AUSTIN, TEXAS					
TITLE GENERAL ARRANGEMENT AB-200 STANDARD COMBUSTION					
SCALE: N.T.S. PROJECT NO: AB 200					
SHEET 1 OF 1 DWG NO. 940004 REV LEVEL 3					



**A** United States Postal Service

1. Head **southeast** on **Main St** toward **Legion Ln**  
394 ft
2. Turn **left** onto **Park St**  
203 ft
3. Turn **right** at the 1st cross street onto **3rd St**  
213 ft
4. Turn **left** onto **Maple Ave**  
0.3 mi
5. Turn **right** onto **US-150 E/US-41 S**  
3.4 mi
6. Turn **left** onto **N Emison Mill Rd**  
0.8 mi
7. Turn **left** onto **N Chattin Rd**  
200 ft

**B** 9044-9130 N Chattin Rd

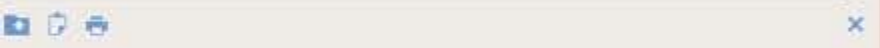




**A** United States Postal Service

- 1. Head **southeast** on **Main St** toward **Legion Ln**  
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3.4 mi
- 6. Turn **left** onto **N Emison Mill Rd**  
0.8 mi
- 7. Turn **left** onto **N Chattin Rd**  
200 ft

**B** 9044-9130 N Chattin Rd





**AIR PERMIT APPLICATION COVER SHEET**  
 State Form 50639 (R4 / 1-10)  
 INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT

**IDEM – Office of Air Quality – Permits Branch**  
 100 N. Senate Avenue, MC 61-53 Room 1003  
 Indianapolis, IN 46204-2251  
 Telephone: (317) 233-0178 or  
 Toll Free: 1-800-451-6027 x30178 (within Indiana)  
 Facsimile Number: (317) 232-6749  
[www.IN.gov/idem](http://www.IN.gov/idem)

**NOTES:**

- The purpose of this cover sheet is to obtain the core information needed to process the air permit application. This cover sheet is required for all air permit applications submitted to IDEM, OAQ. Place this cover sheet on top of all subsequent forms and attachments that encompass your air permit application packet.
- Submit the completed air permit application packet, including all forms and attachments, to **IDEM Air Permits Administration** using the address in the upper right hand corner of this page.
- IDEM will send a bill to collect the filing fee and any other applicable fees.
- Detailed instructions for this form are available on the Air Permit Application Forms website.

FOR OFFICE USE ONLY
<b>PERMIT NUMBER:</b>
<b>DATE APPLICATION WAS RECEIVED:</b>

**1. Tax ID Number:** 26-0602410

**PART A: Purpose of Application**

Part A identifies the purpose of this air permit application. For the purposes of this form, the term "source" refers to the plant site as a whole and NOT to individual emissions units.

**2. Source / Company Name:** Oaktown 2 / Keyrock Environment LLC      **3. Plant ID:** 083 \_ 00066

**4. Billing Address:** 153 Jackson Avenue

**City:** Madison      **State:** WV      **ZIP Code:** 25130 –

**5. Permit Level:**     Exemption     Registration     SSOA     MSOP     FESOP     TVOP     PBR

**6. Application Summary:** *Check all that apply. Multiple permit numbers may be assigned as needed based on the choices selected below.*

- |   |   |  |
|---|---|--|
| <input type="checkbox"/> Initial Permit   | <input type="checkbox"/> Renewal of Operating Permit        | <input type="checkbox"/> Asphalt General Permit            |
| <input type="checkbox"/> Review Request   | <input type="checkbox"/> Revocation of Operating Permit     | <input type="checkbox"/> Alternate Emission Factor Request |
| <input type="checkbox"/> Interim Approval | <input type="checkbox"/> Relocation of Portable Source      | <input type="checkbox"/> Acid Deposition (Phase II)        |
| <input type="checkbox"/> Site Closure     | <input type="checkbox"/> Emission Reduction Credit Registry |  |

Transition (between permit levels)      *From:* Exemption      *To:* Registration

- |  |  |   |
|--|--|---|
| <input type="checkbox"/> Administrative Amendment: | <input type="checkbox"/> Company Name Change                     | <input type="checkbox"/> Change of Responsible Official |
|  | <input type="checkbox"/> Correction to Non-Technical Information | <input type="checkbox"/> Notice Only Change             |
|  | <input type="checkbox"/> Other (specify):                        |   |

- Modification:
- |   |  |  |
|---|--|--|
| <input checked="" type="checkbox"/> New Emission Unit or Control Device | <input type="checkbox"/> Modified Emission Unit or Control Device        |  |
| <input type="checkbox"/> New Applicable Permit Requirement              | <input type="checkbox"/> Change to Applicability of a Permit Requirement |  |
| <input type="checkbox"/> Prevention of Significant Deterioration        | <input type="checkbox"/> Emission Offset                                 | <input type="checkbox"/> MACT Preconstruction Review |
| <input type="checkbox"/> Minor Source Modification                      | <input type="checkbox"/> Significant Source Modification                 |  |
| <input type="checkbox"/> Minor Permit Modification                      | <input type="checkbox"/> Significant Permit Modification                 |  |
| <input type="checkbox"/> Other (specify):                               |  |  |

**7. Is this an application for an initial construction and/or operating permit for a "Greenfield" Source?**     Yes     No

**8. Is this an application for construction of a new emissions unit at an Existing Source?**     Yes     No

### PART B: Pre-Application Meeting

Part B specifies whether a meeting was held or is being requested to discuss the permit application.

9. Was a meeting held between the company and IDEM prior to submitting this application to discuss the details of the project?

No  Yes: *Date:*

10. Would you like to schedule a meeting with IDEM management and your permit writer to discuss the details of this project?

No  Yes: *Proposed Date for Meeting:*

### PART C: Confidential Business Information

Part C identifies permit applications that require special care to ensure that confidential business information is kept separate from the public file.

Claims of confidentiality must be made at the time the information is submitted to IDEM, and must follow the requirements set out in the Indiana Administrative Code (IAC). To ensure that your information remains confidential, refer to the IDEM, OAQ information regarding submittal of confidential business information. For more information on confidentiality for certain types of business information, please review IDEM's Nonrule Policy Document Air-031-NPD regarding Emission Data.

11. Is any of the information contained within this application being claimed as **Confidential Business Information**?

No  Yes

### PART D: Certification Of Truth, Accuracy, and Completeness

Part D is the official certification that the information contained within the air permit application packet is truthful, accurate, and complete. Any air permit application packet that we receive without a signed certification will be deemed incomplete and may result in denial of the permit.

For a Part 70 Operating Permit (TVOP) or a Source Specific Operating Agreement (SSOA), a "responsible official" as defined in 326 IAC 2-7-1(34) must certify the air permit application. For all other applicants, this person is an "authorized Individual" as defined in 326 IAC 2-1.1-1(1).

*I certify under penalty of law that, based on information and belief formed after reasonable inquiry, the statements and information contained in this application are true, accurate, and complete.*

Mark Allaman  
Name (typed)

*Mark Allaman*  
Signature

Managing Director  
Title

6-18-2024  
Date

**OAQ GENERAL SOURCE DATA APPLICATION****GSD-01: Basic Source Level Information**

State Form 50640 (R5 / 1-10)

**INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT**

**IDEM – Office of Air Quality – Permits Branch**  
 100 N. Senate Avenue, MC 61-53 Room 1003  
 Indianapolis, IN 46204-2251  
 Telephone: (317) 233-0178 or  
 Toll Free: 1-800-451-6027 x30178 (within Indiana)  
 Facsimile Number: (317) 232-6749  
[www.IN.gov/idem](http://www.IN.gov/idem)

**NOTES:**

- The purpose of GSD-01 is to provide essential information about the entire source of air pollutant emissions. GSD-01 is a required form.
- Detailed instructions for this form are available on the Air Permit Application Forms website.
- All information submitted to IDEM will be made available to the public unless it is submitted under a claim of confidentiality. Claims of confidentiality must be made at the time the information is submitted to IDEM, and must follow the requirements set out in 326 IAC 17.1-4-1. Failure to follow these requirements exactly will result in your information becoming a public record, available for public inspection.

**PART A: Source / Company Location Information**

<b>1. Source / Company Name:</b> Oaktown 2 / Keyrock Environment LLC		<b>2. Plant ID:</b> —	
<b>3. Location Address:</b> 1500 feet north of the intersection of E. Freedlanville Rd. and N. Abrams Rd			
<b>City:</b> Oak Town	<b>State:</b> IN	<b>ZIP Code:</b> 47561 —	
<b>4. County Name:</b> Knox		<b>5. Township Name:</b> Busseron	
<b>6. Geographic Coordinates:</b>			
<b>Latitude:</b> 38.878916°		<b>Longitude:</b> -87.433010°	
<b>7. Universal Transferal Mercadum Coordinates (if known):</b>			
<b>Zone:</b> 16	<b>Horizontal:</b> E 462441.01	<b>Vertical:</b> N 4303428.99	
<b>8. Adjacent States:</b> Is the source located within 50 miles of an adjacent state? <input type="checkbox"/> No <input checked="" type="checkbox"/> Yes – <i>Indicate Adjacent State(s):</i> <input checked="" type="checkbox"/> Illinois (IL) <input type="checkbox"/> Michigan (MI) <input type="checkbox"/> Ohio (OH) <input type="checkbox"/> Kentucky (KY)			
<b>9. Attainment Area Designation:</b> Is the source located within a non-attainment area for any of the criteria air pollutants? <input checked="" type="checkbox"/> No <input type="checkbox"/> Yes – <i>Indicate Nonattainment Pollutant(s):</i> <input type="checkbox"/> CO <input type="checkbox"/> Pb <input type="checkbox"/> NO <sub>x</sub> <input type="checkbox"/> O <sub>3</sub> <input type="checkbox"/> PM <input type="checkbox"/> PM <sub>10</sub> <input type="checkbox"/> PM <sub>2.5</sub> <input type="checkbox"/> SO <sub>2</sub>			
<b>10. Portable / Stationary:</b> Is this a portable or stationary source? <input checked="" type="checkbox"/> Portable <input type="checkbox"/> Stationary			

**PART B: Source Summary**

<b>11. Company Internet Address (optional):</b>
<b>12. Company Name History:</b> Has this source operated under any other name(s)? <input checked="" type="checkbox"/> No <input type="checkbox"/> Yes – <i>Provide information regarding past company names in Part I, Company Name History.</i>
<b>13. Portable Source Location History:</b> Will the location of the portable source be changing in the near future? <input checked="" type="checkbox"/> Not Applicable <input type="checkbox"/> No <input type="checkbox"/> Yes – <i>Complete Part J, Portable Source Location History, and Part K, Request to Change Location of Portable Source.</i>
<b>14. Existing Approvals:</b> Have any exemptions, registrations, or permits been issued to this source? <input checked="" type="checkbox"/> No <input type="checkbox"/> Yes – <i>List these permits and their corresponding emissions units in Part M, Existing Approvals.</i>
<b>15. Unpermitted Emissions Units:</b> Does this source have any unpermitted emissions units? <input checked="" type="checkbox"/> No <input type="checkbox"/> Yes – <i>List all unpermitted emissions units in Part N, Unpermitted Emissions Units.</i>
<b>16. New Source Review:</b> Is this source proposing to construct or modify any emissions units? <input type="checkbox"/> No <input checked="" type="checkbox"/> Yes – <i>List all proposed new construction in Part O, New or Modified Emissions Units.</i>
<b>17. Risk Management Plan:</b> Has this source submitted a Risk Management Plan? <input checked="" type="checkbox"/> Not Required <input type="checkbox"/> No <input type="checkbox"/> Yes → Date submitted: _____ EPA Facility Identifier: — —

**PART C: Source Contact Information**

**IDEM will send the original, signed permit decision to the person identified in this section. This person MUST be an employee of the permitted source.**

18. Name of Source Contact Person: Joe Lane

19. Title (optional): Permitting and Regulatory Manager

20. Mailing Address: 153 Jackson Avenue

City: Madison

State: WV

ZIP Code: 25130 –

21. Electronic Mail Address (optional): jlane@keyrockenergy.com

22. Telephone Number: ( 304 ) 989 – 5533

23. Facsimile Number (optional): ( ) –

**PART D: Authorized Individual/Responsible Official Information**

IDEM will send a copy of the permit decision to the person indicated in this section, if the Authorized Individual or Responsible Official is different from the Source Contact specified in Part C.

24. Name of Authorized Individual or Responsible Official: Mark Allaman

25. Title: Managing Director

26. Mailing Address: P.O.Box 2223

City: Johnson City

State: TN

ZIP Code: 37605 –

27. Telephone Number: ( 304 ) 573 – 9873

28. Facsimile Number (optional): ( ) –

29. Request to Change the Authorized Individual or Responsible Official: Is the source officially requesting to change the person designated as the Authorized Individual or Responsible Official in the official documents issued by IDEM, OAQ? The permit may list the title of the Authorized Individual or Responsible Official in lieu of a specific name.

No  Yes – **Change Responsible Official to:**

**PART E: Owner Information**

30. Company Name of Owner: Keyrock Environment LLC

31. Name of Owner Contact Person: Bruce Horman

32. Mailing Address: P.O. Box 2223

City: Johnson City

State: TN

ZIP Code: 37605 –

33. Telephone Number: ( 618 ) 443 – 8753

34. Facsimile Number (optional): ( ) –

34. Operator: Does the "Owner" company also operate the source to which this application applies?

No – Proceed to Part F below.  Yes – Enter "SAME AS OWNER" on line 35 and proceed to Part G below.

**PART F: Operator Information**

35. Company Name of Operator: SAME AS OWNER

36. Name of Operator Contact Person:

37. Mailing Address:

City:

State:

ZIP Code: –

38. Telephone Number: ( ) –

39. Facsimile Number (optional): ( ) –



**PART G: Agent Information**

40. **Company Name of Agent:** Keyrock Environment

41. **Type of Agent:**  Environmental Consultant  Attorney  Other (specify):

42. **Name of Agent Contact Person:** Joe Lane

43. **Mailing Address:** 153 Jackson Avenue

**City:** Madison

**State:** WV

**ZIP Code:** 25130 –

44. **Electronic Mail Address (optional):** jlane@keyrockenergy.com

45. **Telephone Number:** ( 304 ) 989 – 5533

46. **Facsimile Number (optional):** ( ) –

47. **Request for Follow-up:** Does the “Agent” wish to receive a copy of the preliminary findings during the public notice period (if applicable) and a copy of the final determination?  No  Yes

**PART H: Local Library Information**

48. **Date application packet was filed with the local library:** Yes

49. **Name of Library:** Knox County Public Library

50. **Name of Librarian (optional):**

51. **Mailing Address:** 201 S Ledgerwood St, Carlisle, IN 47838

**City:** Carlisle

**State:** IN

**ZIP Code:** 47838

52. **Internet Address (optional):**

53. **Electronic Mail Address (optional):** blemonskcpl@gmail.com

54. **Telephone Number:** ( 812 ) 398 – 4480

55. **Facsimile Number (optional):** ( ) –

**PART I: Company Name History (if applicable)**

Complete this section only if the source has previously operated under a legal name that is different from the name listed above in Section A.

56. **Legal Name of Company**

57. **Dates of Use**

to

to

to

to

to

to

to

to

to

to

58. **Company Name Change Request:** Is the source officially requesting to change the legal name that will be printed on all official documents issued by IDEM, OAQ?

No  Yes – **Change Company Name to:**

**PART J: Portable Source Location History** *(if applicable)*

Complete this section only if the source is portable and the location has changed since the previous permit was issued. The current location of the source should be listed in Section A.

59. Plant ID	60. Location of the Portable Source	61. Dates at this Location
-		to
-		to
-		to
-		to
-		to
-		to
-		to
-		to
-		to
-		to
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-		to
-		to
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-		to
-		to
-		to
-		to

**PART K: Request to Change Location of Portable Source** *(if applicable)*

Complete this section to request a change of location for a portable source.

<b>62. Current Location:</b>		
Address:		
City:	State:	ZIP Code: -
County Name:		
<b>63. New Location:</b>		
Address:		
City:	State:	ZIP Code: -
County Name:		

**PART L: Source Process Description**

Complete this section to summarize the main processes at the source.

64. Process Description	65. Products	66. SIC Code	67. NAICS Code
Sanitary Services		4959	

**PART M: Existing Approvals (if applicable)**

Complete this section to summarize the approvals issued to the source since issuance of the main operating permit.

68. Permit ID	69. Emissions Unit IDs	70. Expiration Date

**PART N: Unpermitted Emissions Units (if applicable)**

Complete this section only if the source has emission units that are not listed in any permit issued by IDEM, OAQ.

71. Emissions Unit ID	72. Type of Emissions Unit	73. Actual Dates		
		Began Construction	Completed Construction	Began Operation

**PART O: New or Modified Emissions Units (if applicable)**

Complete this section only if the source is proposing to add new emission units or modify existing emission units.

74. Emissions Unit ID	75. NEW	76. MOD	77. Type of Emissions Unit	78. Estimated Dates		
				Begin Construction	Complete Construction	Begin Operation
		X	(2)Enclosed Flares	5/15/2023	5/24/2022	6/15/2023

	enter:
State of Operation	IN
Flare type	Zink Trailer 1800
Target flow rate for source [scfm]	403.0
Methane Concentration [%]	100%
CH4 heating value [Btu/scf]	910
Max Heat Release per Flare [MMBtu/hr]	22.0
Number of Flares Required for Target	1

Emission Source	Max Heat Release		Emissions Factor		Emissions	
	Per Flare	Total Site	Pollutant	Value	(lb/hr)	(ton/year)
Zink Trailer 1800 Flares	22.0 MMBTU/hr	22.0 MMBTU/hr	CO	0.1500 lb/mmbtu	3.301	14.5
			NOx	0.1000 lb/mmbtu	2.200	9.6
			PM	17.0000 lb/mmscf	0.411	1.8
			PM10	0.0000 lb/mmscf	-	-
			SO2	0.0000 lb/mmbtu	-	-
			VOC	0.0000 lb/mmbtu	-	-
HAPs	0.0000 lb/mmbtu	-	-			

	enter:
State of Operation	IN
Flare type	AB-200
Target flow rate for source [scfm]	577.0
Methane Concentration [%]	100%
CH4 heating value [Btu/scf]	910
Max Heat Release per Flare [MMBtu/hr]	30.0
Number of Flares Required for Target	1

Total Site Emissions	
Emissions	
(lb/hr)	(ton/year)
6.451	28.3
4.721	20.7
0.567	2.5
0.000	0.0
-	-
-	-
-	-

CO  
NOX  
PM

Emission Source	Max Heat Release		Emissions Factor		Emissions	
	Per Flare	Total Site	Pollutant	Value	(lb/hr)	(ton/year)
AB-200 Flares	31.5 MMBTU/hr	31.5 MMBTU/hr	CO	0.1000 lb/mmbtu	3.150	13.8
			NOx	0.0800 lb/mmbtu	2.520	11.0
			PM	4.5000 lb/mmscf	0.156	0.7
			PM10	0.0000 lb/mmscf	-	-
			SO2	0.0000 lb/mmbtu	-	-
			VOC	0.0000 lb/mmbtu	-	-
HAPs	0.0000 lb/mmbtu	-	-			



John Zink Company LLC  
11920 East Apache Street  
Tulsa, Oklahoma 74116  
United States

T : +1.918.234.1800  
F : +1.918.234.2700

Alex Bycroft  
Applications Engineer – Biogas Systems

DATE: December 15, 2022  
TO: Keyrock Energy  
REFERENCE: Enclosed Flare (ZTOF<sup>®</sup>) – Estimated Emissions

**John Zink Model Number: 6'X30' ZTOF**

**Design Criteria**

**Flare Gas Stream**

Type: ..... Coal Mine Methane Gas  
Composition: ..... 100% CH<sub>4</sub> (design) 30 – 100% CH<sub>4</sub> (range); balance N<sub>2</sub>  
Lower Heating Value:..... 910 BTU/SCF (design)  
Temperature:..... 90°F (design)  
Flame Arrester Inlet Pressure: ..... 10" H<sub>2</sub>O  
Flow Rate: ..... 403 SCFM (design normalized at 100% CH<sub>4</sub>)  
  200 – 1,343SCFM (range)  
Waste Gas Heat Release: ..... 22 MMBTU/hr (maximum)

**Flare Emission Range—(Design Flow with Alternate Composition  
Coal Mine Methane Gas [≤65% CH<sub>4</sub>; balance N<sub>2</sub>])**

Operating Temperature	1600°F	1800°F
Methane Destruction Efficiency <sup>(1)</sup>	98%	99%
NO <sub>x</sub> , lb / MMBTU <sup>(2)</sup>	0.08	0.10
CO, lb / MMBTU <sup>(3)</sup>	0.20	0.15
SO <sub>x</sub> <sup>(4)</sup>	N/A	
Particulate Matter, lb/10 <sup>6</sup> dscf <sup>(5)</sup>	17	

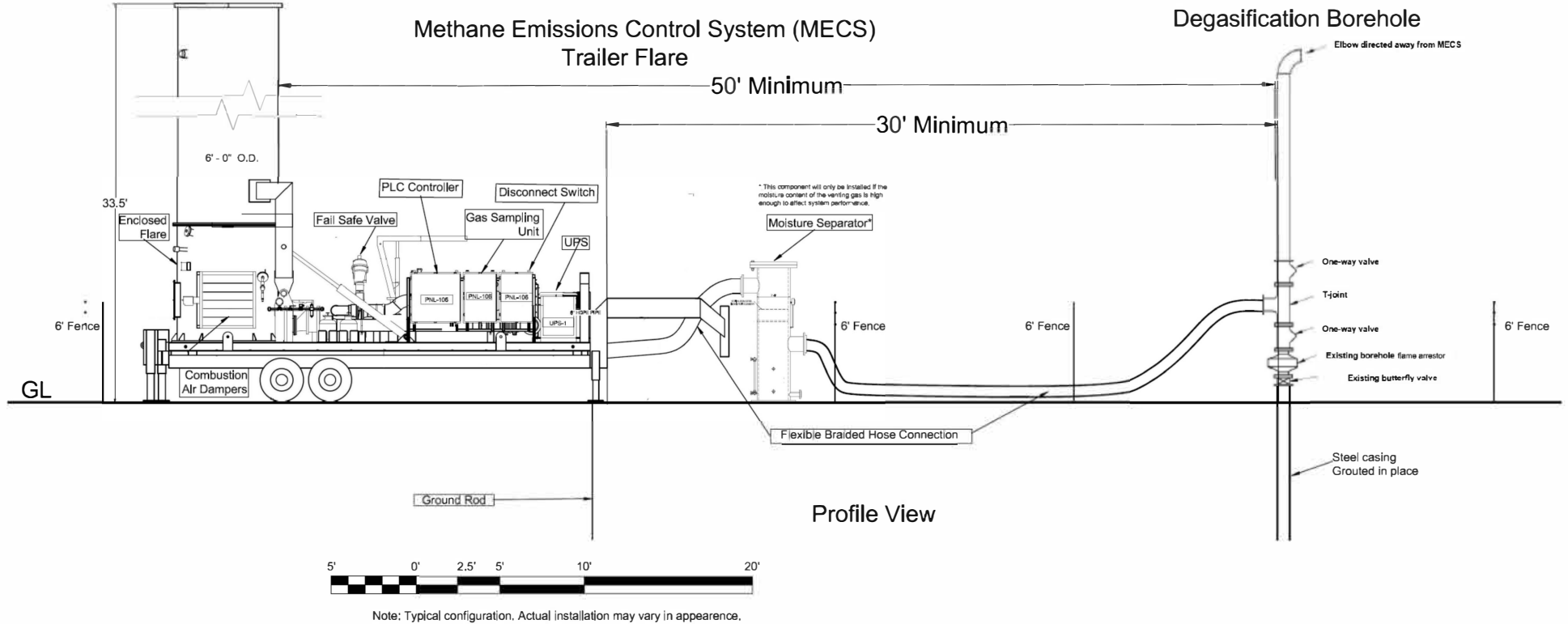
**Flare Emission Range—(Design Flow with Coal Mine Methane Gas (100% CH<sub>4</sub>))**

Operating Temperature	1400°F - 1800°F
Methane Destruction Efficiency <sup>(1)</sup>	> 98%
NO <sub>x</sub> , lb / MMBTU <sup>(2)</sup>	0.15
CO, lb / MMBTU <sup>(3)</sup>	0.20
SO <sub>x</sub> <sup>(4)</sup>	N/A
Particulate Matter, lb/10 <sup>6</sup> dscf <sup>(5)</sup>	17

- (1) Typical sulphur containing compounds are expected to have greater than 98% oxidation efficiency.
- (2) Excludes NO<sub>x</sub> from fixed nitrogen.
- (3) Excludes CO contribution present in the gas.
- (4) Sulphur containing compounds in the inlet gas stream will be directly converted to SO<sub>x</sub> based on the destruction efficiency indicated in note 1.
- (5) Meets AP-42 emission factor as it relates to particulate matter directly generated from combustion. Excludes particulate matter that has origins unrelated to combustion (e.g. particles in the gas stream, dust sucked through the dampers, etc.).

NOTE: *Estimated emissions are based on field tests of operating units and the higher heating value (HHV) of the gas. Destruction efficiency, NO<sub>x</sub>, and CO emissions shown are valid for combustion of specified gas only.*

System Layout Side View and Top View – Trailer MECS with Direct Connection to Borehole



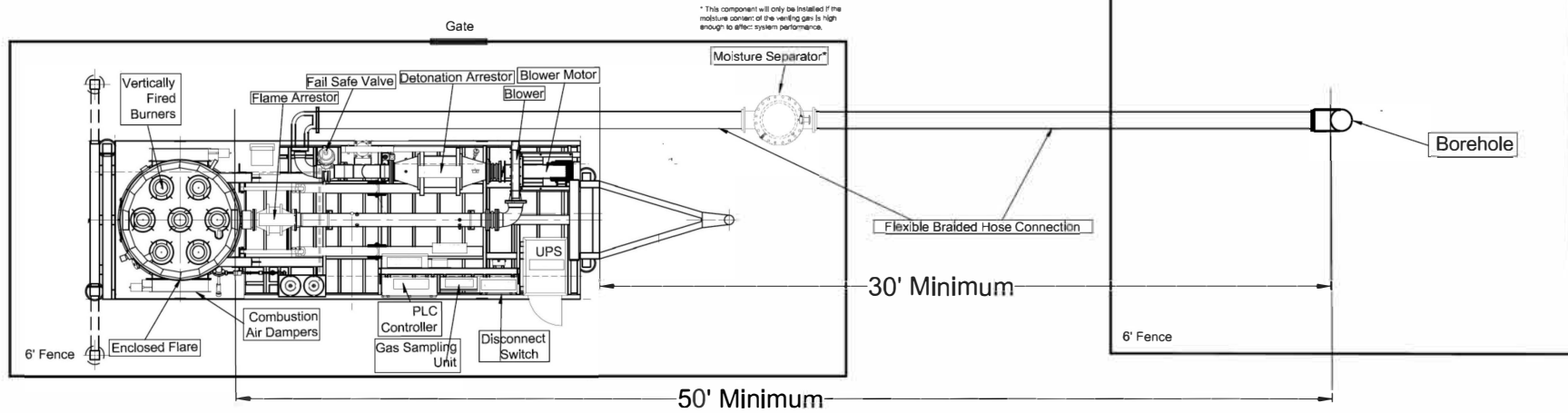
# Methane Emissions Control System (MECS) Trailer Flare

# Degasification Borehole



Note: Typical configuration. Actual installation may vary in appearance.

Plan View





To: Joe Stone  
Keyrock Energy

The AB-200 combustor is a non-temperature-controlled system. Following emissions rates are expected (not guaranteed) as stated below at 1700 Deg F and assuming a typical coal mine vent gas composition (methane and inerts, not heavier hydrocarbons):

NOx	0.08 lb/MMBtu
CO	0.1 lb/MMBtu
SOx	0 (N/A)
VOM (Non-Methane and Ethane)	0
PM	4.5 lb/MMSCF
PM 10	4 lb/MMSCF
DRE	≥99%
Tested Capacity w/5' stack extension	577 SCFM

The above emissions factors are based on gas with lower heating value of 910 BTU/scf.

Cimarron submits this letter to Keyrock under the terms of the Non Disclosure Agreement executed between Cimarron and Keyrock on September 25th, 2020, and considers this letter to be "Confidential Information" subject to the duties and obligations therein.

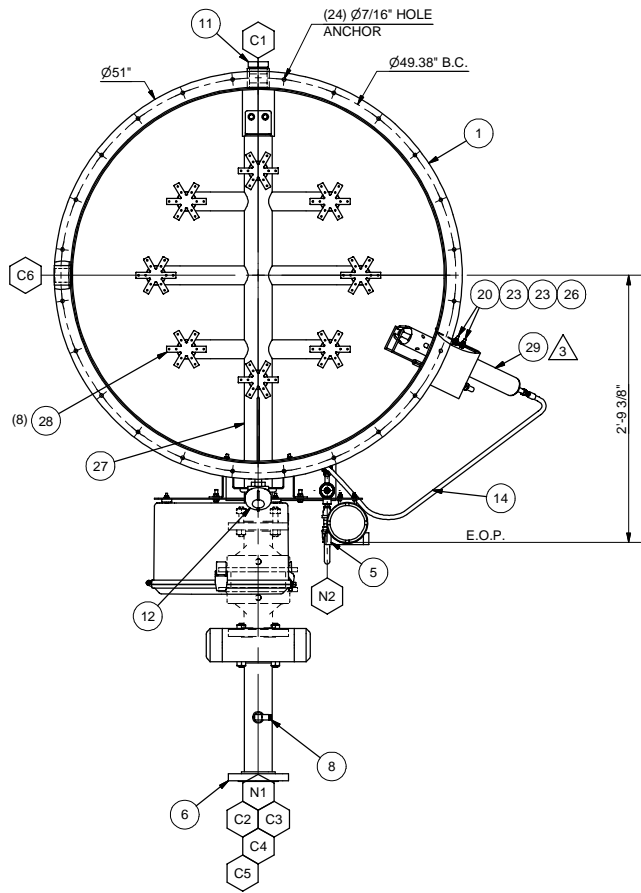
Should you have further questions, please do not hesitate to contact the undersigned.

Best Regards,

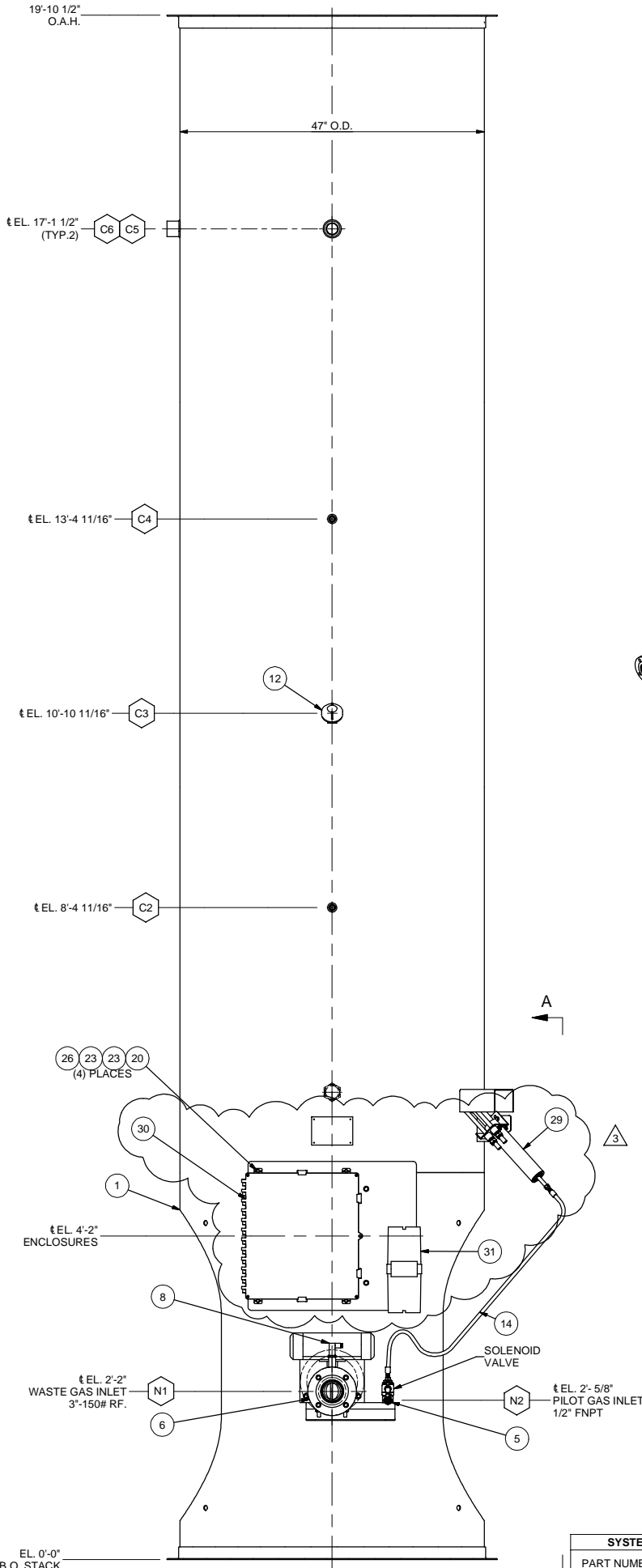
**Giorgio Sibilias**  
Cimarron | Combustion Products

(Cell) 512-247-1557  
[gsibilias@cimarron.com](mailto:gsibilias@cimarron.com)

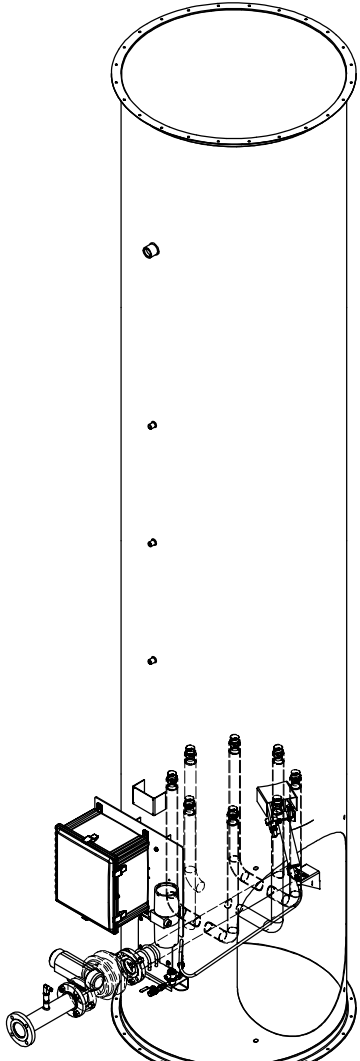




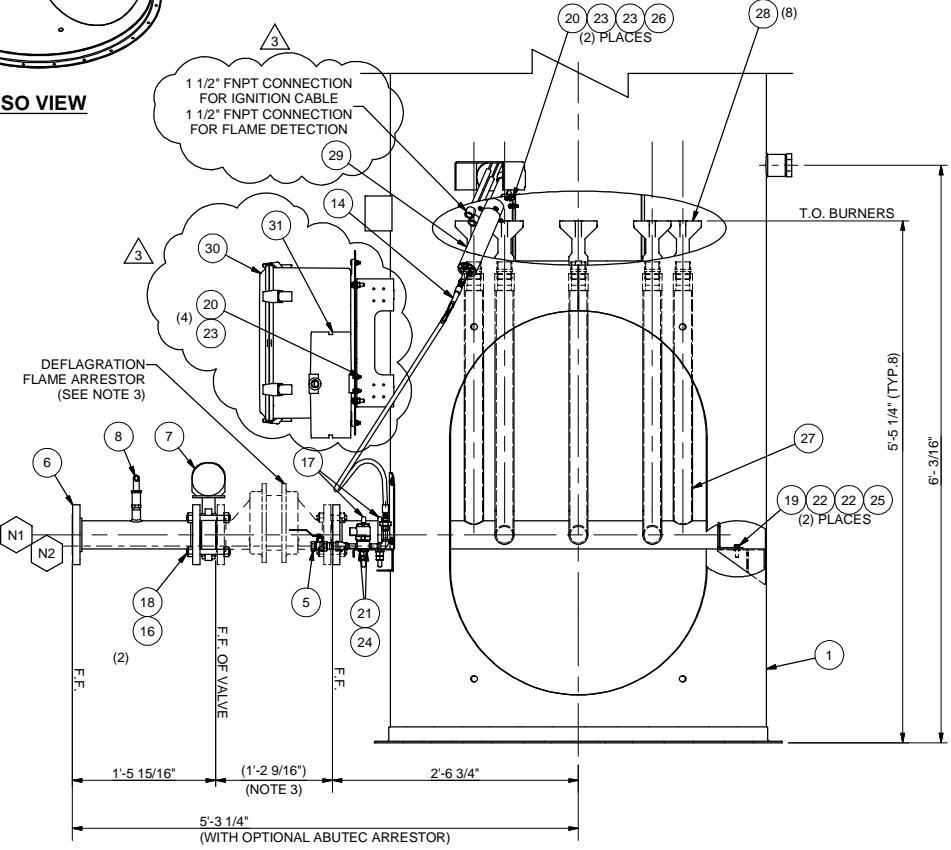
TOP VIEW



FRONT VIEW



ISO VIEW



VIEW A-A

NOZZLE SCHEDULE					
ITEM	TYPE	SERVICE	SIZE	RATING	SPEC
N1	RFSO	WASTE GAS	3"	150#	304SS
N2	FNPT	PILOT GAS	1/2"	150#	304SS
C1	FNPT	SIGHT GLASS	2"	150#	304SS
C2	FNPT	AUXILIARY	1/2"	150#	304SS
C3	FNPT	AUXILIARY	1/2"	150#	304SS
C4	FNPT	THERMOCOUPLE	1/2"	150#	304SS
C5	FNPT	AUXILIARY	1 1/2"	150#	304SS
C6	FNPT	AUXILIARY	1 1/2"	150#	304SS

BILL OF MATERIALS				
ITEM	QTY	PART NUMBER	DESCRIPTION	SPEC
1	1	AB200A200	STACK ASSEMBLY AB200	304 SS
2	-	-	(NOT USED)	-
3	-	-	(NOT USED)	-
4	-	-	(NOT USED)	-
5	1	104832	PILOT GAS TRAIN ASSEMBLY	304 SS
6	1	106767	BURNER INLET SPOOL ASSEMBLY	304 SS
7	1	108517	VALVE BUTTERFLY PNEUMATIC 3IN LP	304 SS
8	1	104281	PRESSURE TRANSMITTER 1/2IN NPT 0-50IN H2O W/ 6IN LEADS	304 SS
9	-	-	(NOT USED)	-
10	-	-	(NOT USED)	-
11	1	104528	SIGHT GLASS 2IN MNPT W/O REFLECTOR	304 SS
12	1	104280	THERMOWELL 9IN X 0.260 BORE 1/2IN MNPT STRAIGHT	304 SS
13	1	104493	IGNITION CABLE EXTERNAL 5FT PROFIRE (NOT SHOWN)	-
14	1	104356	HOSE BRAIDED 1/4IN X 48IN W/ MNPT ENDS	304 SS
15	1	104279	THERMOCOUPLE 9IN TYPE K	304 SS
16	2	104385	GASKET 3IN 150# SPIRAL WOUND CG 316L INNER X CS OUTER X GRAPHITE FILLER GREEN	304 SS
17	2	102692	U-BOLT, 3IN x 1/2IN W/ (2) FLAT WASHERS & (4) HEX NUTS	304 SS
18	4	104698	STUD BOLT, 5/8IN X 5 1/2IN W/ (2) HVY. HEX NUTS EA.	A-193-B8 A-194-8
19	2	154562	BOLT HEX CAP SCREW FULL THREAD 3/8IN-16 UNC x 1-1/4IN F593 GR 18-8	F593-18-8
20	10	154500	BOLT HEX CAP SCREW 1/4IN-20 UNC x 1IN F593 GR 18-8	F593-18-8
21	2	106996	BOLT HEX CAP SCREW FULL THREAD #10-32 UNF x 3/8IN F593 GR 18-8	F593-18-8
22	4	155415	WASHER FLAT 3/8IN NARROW F844 18-8	F844-18-8
23	16	155408	WASHER FLAT 1/4IN NARROW F844 18-8	F844-18-8
24	2	100609	WASHER FLAT #10 NARROW F844 18-8	F844-18-8
25	2	154874	NUT HEX 3/8IN-16 UNC F594 GR 18-8	F594-18-8
26	6	154866	NUT HEX 1/4IN-20 UNC F594 GR 18-8	F594-18-8
27	1	110531	SPIDER BURNER MANIFOLD ASSEMBLY	304 SS
28	8	109583	SPIDER BURNER CASTING, 1 1/2" FNPT (CK20) (NOTE 4)	CK20
29	1	112786	PILOT ASSEMBLY ACP-AB	-
30	1	SEE TABLE	MAIN CONTROL PANEL	-
31	1	113038	PILOT TRANSFORMER ENCLOSURE	-

NOTES: (UNLESS OTHERWISE SPECIFIED)

- ALL BOLT HOLES SHALL STRADDLE COMMON CENTERLINES.
- ALL NOZZLES AND COUPLINGS TO BE CAPPED OR PLUGGED PRIOR TO SHIPPING.
- DEFLAGRATION FLAME ARRESTOR REQUIRED. OPTIONAL ABUTEK ARRESTOR KIT SHOWN AS REFERENCE.
- BURNER DRILLINGS MUST BE CONFIRMED BY ENGINEERING.

SYSTEM DESIGNATION TABLE		
PART NUMBER	VOLTAGE	CONTROL PANEL
940004A	24V DC	112520
940004B	120V AC	112522

UNLESS OTHERWISE SPECIFIED ALL DIMENSIONS ARE IN INCHES. DO NOT SCALE DRAWING.

TOLERANCE:  
 OVERALL ELEVATION ±1"  
 NOZZLE ELEVATION ±1/2"  
 GYRE ELEVATION ±1"  
 FRACTIONS ±1/16"  
 DECIMALS .XX ±.05  
 DECIMALS .XXX ±.030  
 ANGLE SQUARENESS ±1°  
 ACROSS FACE ±1/16"  
 FLANGE ROTATION ±1/16" MAX.

PROPRIETARY INFORMATION  
 THIS DOCUMENT CONTAINS FLARE INDUSTRIES, LLC PROPRIETARY AND CONFIDENTIAL INFORMATION. IT IS LOANED FOR LIMITED PURPOSES ONLY AND REMAINS THE PROPERTY OF FLARE INDUSTRIES, LLC. IT MAY NOT BE REPRODUCED IN WHOLE OR IN PART WITHOUT THE PRIOR WRITTEN CONSENT OF FLARE INDUSTRIES, LLC. THIS DOCUMENT IS TO BE RETURNED UPON REQUEST AND IN ALL EVENTS WITH COMPLETION OF THE USE FOR WHICH IT WAS LOANED.

QTY. SHIP ORDER APPROX WEIGHT/LBS 1,800

REV	DATE	DESCRIPTION	BY	CHK'D	APPR
3	08/02/19	REPLACED PILOT, X-FORMER, AND CONTROL PANEL	RJ	MLM	MT
2	08/01/18	REPLACED TUBES WITH BURNERS	RJ	SOP	JH
1	8/25/17	CORRECT NOZZLE SCHEDULE N2 SIZE	FPF		
0	5/5/17	ISSUED FOR CONSTRUCTION	FPF	DMR	RLW

CUSTOMER/LOCATION <b>ABUTEK</b> AUSTIN, TEXAS			PROJECT NO. AB 200		
TITLE <b>GENERAL ARRANGEMENT</b> AB-200 STANDARD COMBUSTION			SCALE N.T.S.		
SHEET 1 OF 1		DWG NO. 940004		REV LEVEL 3	

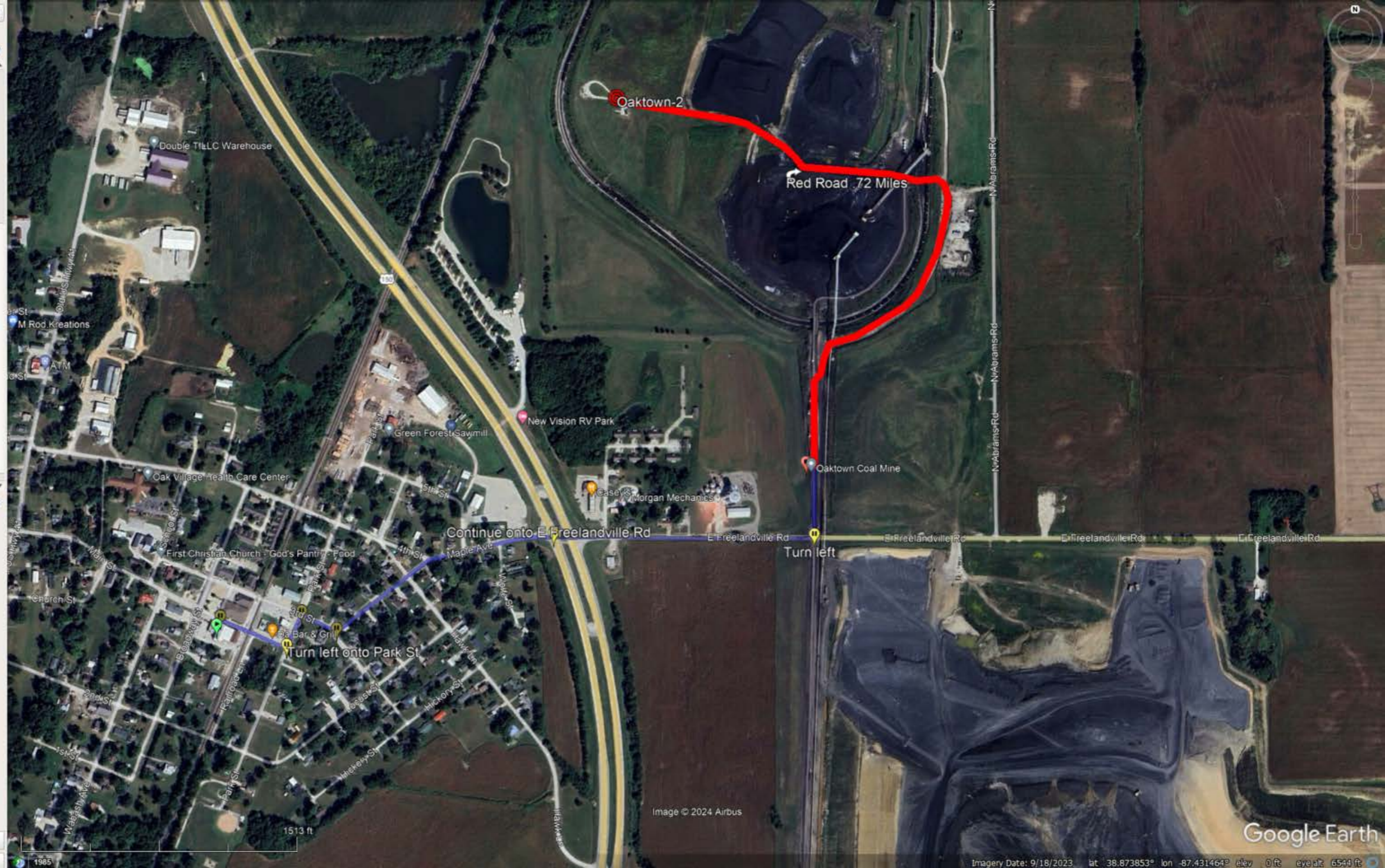
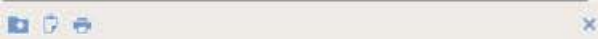




**A** United States Postal Service

1. Head **southeast** on **Main St** toward **Legion Ln**  
394 ft
2. Turn **left** onto **Park St**  
203 ft
3. Turn **right** at the 1st cross street onto **3rd St**  
213 ft
4. Turn **left** onto **Maple Ave**  
0.3 mi
5. Continue onto **E Freelandville Rd**  
0.3 mi
6. Turn **left**  
397 ft

**B** Oaktown Coal Mine



**From:** [Joe Lane](#)  
**To:** [Moulik, Pratim](#)  
**Subject:** RE: Oaktown-1 and Oaktown-2 Clerical error corrections  
**Date:** Wednesday, June 26, 2024 6:31:55 PM  
**Attachments:** [image001.png](#)  
[image002.png](#)  
[image004.png](#)  
[image005.png](#)  
[image006.png](#)  
[image007.png](#)  
[image008.png](#)  
[image009.png](#)  
[image003.png](#)  
[Oaktown 1 MOD.pdf](#)  
[Oaktown 2 MOD.pdf](#)

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\*\*\*\* This is an EXTERNAL email. Exercise caution. DO NOT open attachments or click links from unknown senders or unexpected email. \*\*\*\*

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Hello Pratim,

If you are good with these, I will get them in the mail ASAP..

Thanks

Joe Lane  
Permitting Compliance Mgr.  
304-989-5533

---

**From:** Moulik, Pratim <PMoulik@idem.IN.gov>  
**Sent:** Wednesday, June 26, 2024 8:27 AM  
**To:** Joe Lane <jlane@keyrockenergy.com>  
**Subject:** RE: Oaktown-1 and Oaktown-2 Clerical error corrections

Good Morning Joe,

The applications that you sent to IDEM via email were from last year. Since the change that needs to be made is just an address change, could you create an application with just that for both Oaktown 1 and 2. For the permits to get issued, you would have to send a hard copy of the applications to IDEM. The address you should send the application to is to IDEM – Office of Air Quality – Permits Branch. It is located on 100 N. Senate Avenue, MC 61-53 Room 1003 Indianapolis, IN 46204-2251.

With Regards,  
Pratim Moulik

Pratim Moulik  
Environmental Manager 2

(317) 234-6871 • [PMoulik@idem.IN.gov](mailto:PMoulik@idem.IN.gov)



 |  |  |  |  | [www.idem.IN.gov](http://www.idem.IN.gov)

Scan the QR code to leave your feedback.

We appreciate your input!



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**From:** Joe Lane <[jlane@keyrockenergy.com](mailto:jlane@keyrockenergy.com)>  
**Sent:** Thursday, June 20, 2024 9:58 AM  
**To:** Moulik, Pratim <[PMoulik@idem.IN.gov](mailto:PMoulik@idem.IN.gov)>  
**Subject:** FW: Oaktown-1 and Oaktown-2 Clerical error corrections

\*\*\*\* This is an EXTERNAL email. Exercise caution. DO NOT open attachments or click links from unknown senders or unexpected email. \*\*\*\*

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**From:** Joe Lane  
**Sent:** Tuesday, June 18, 2024 11:33 PM  
**To:** IDEM Air Permit Apps <[AirPermitApps@idem.IN.gov](mailto:AirPermitApps@idem.IN.gov)>  
**Cc:** JACKSON, DWANA <[djackson@idem.in.gov](mailto:djackson@idem.in.gov)>  
**Subject:** Oaktown-1 and Oaktown-2 Clerical error corrections

Attached are two corrected modifications for previously approved Oaktown permits. Upon the modification of these permits the names were accidentally switched.

Oaktown-1 (Permit# 777-46713-05579) Should have been assigned address N Chattin Rd & N Emison Mill Rd, Oaktown, IN 47561.

Oaktown-2 (Permit# 777-46712-05580) Should have been assigned address E Freedlandville Rd & N Abrams Rd .28 MI, Oaktown, IN 47561.

Keyrock Environmental is requesting that this error be corrected in your database.

Should you have any further questions or concerns please feel free to contact me at your earliest convenience

Thanks

Joe Lane  
Permitting Compliance Mgr.  
304-989-5533



**AIR PERMIT APPLICATION COVER SHEET**  
 State Form 50639 (R4 / 1-10)  
 INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT

**IDEM – Office of Air Quality – Permits Branch**  
 100 N. Senate Avenue, MC 61-53 Room 1003  
 Indianapolis, IN 46204-2251  
 Telephone: (317) 233-0178 or  
 Toll Free: 1-800-451-6027 x30178 (within Indiana)  
 Facsimile Number: (317) 232-6749  
[www.IN.gov/idem](http://www.IN.gov/idem)

**NOTES:**

- The purpose of this cover sheet is to obtain the core information needed to process the air permit application. This cover sheet is required for all air permit applications submitted to IDEM, OAQ. Place this cover sheet on top of all subsequent forms and attachments that encompass your air permit application packet.
- Submit the completed air permit application packet, including all forms and attachments, to **IDEM Air Permits Administration** using the address in the upper right hand corner of this page.
- IDEM will send a bill to collect the filing fee and any other applicable fees.
- Detailed instructions for this form are available on the Air Permit Application Forms website.

**FOR OFFICE USE ONLY**

**PERMIT NUMBER:**

**DATE APPLICATION WAS RECEIVED:**

**1. Tax ID Number: 26-0602410**

**PART A: Purpose of Application**

Part A identifies the purpose of this air permit application. For the purposes of this form, the term "source" refers to the plant site as a whole and NOT to individual emissions units.

**2. Source / Company Name:** Oaktown 1 / Keyrock Environment LLC **3. Plant ID:** 083 \_ 00067

**4. Billing Address:** 153 Jackson Avenue

**City:** Madison **State:** WV **ZIP Code:** 25130 –

**5. Permit Level:**  Exemption  Registration  SSOA  MSOP  FESOP  TVOP  PBR

**6. Application Summary:** Check all that apply. Multiple permit numbers may be assigned as needed based on the choices selected below.

- |   |   |  |
|---|---|--|
| <input type="checkbox"/> Initial Permit   | <input type="checkbox"/> Renewal of Operating Permit        | <input type="checkbox"/> Asphalt General Permit            |
| <input type="checkbox"/> Review Request   | <input type="checkbox"/> Revocation of Operating Permit     | <input type="checkbox"/> Alternate Emission Factor Request |
| <input type="checkbox"/> Interim Approval | <input type="checkbox"/> Relocation of Portable Source      | <input type="checkbox"/> Acid Deposition (Phase II)        |
| <input type="checkbox"/> Site Closure     | <input type="checkbox"/> Emission Reduction Credit Registry |  |

Transition (between permit levels) *From:* Exemption *To:* Registration

- |  |  |   |
|--|--|---|
| <input type="checkbox"/> Administrative Amendment: | <input type="checkbox"/> Company Name Change                     | <input type="checkbox"/> Change of Responsible Official |
|  | <input type="checkbox"/> Correction to Non-Technical Information | <input type="checkbox"/> Notice Only Change             |
|  | <input type="checkbox"/> Other (specify):                        |   |

- Modification:
- |   |  |
|---|--|
| <input checked="" type="checkbox"/> New Emission Unit or Control Device | <input type="checkbox"/> Modified Emission Unit or Control Device        |
| <input type="checkbox"/> New Applicable Permit Requirement              | <input type="checkbox"/> Change to Applicability of a Permit Requirement |
| <input type="checkbox"/> Prevention of Significant Deterioration        | <input type="checkbox"/> Emission Offset                                 |
| <input type="checkbox"/> Minor Source Modification                      | <input type="checkbox"/> Significant Source Modification                 |
| <input type="checkbox"/> Minor Permit Modification                      | <input type="checkbox"/> Significant Permit Modification                 |
| <input type="checkbox"/> Other (specify):                               |  |

**7. Is this an application for an initial construction and/or operating permit for a "Greenfield" Source?**  Yes  No

**8. Is this an application for construction of a new emissions unit at an Existing Source?**  Yes  No

### PART B: Pre-Application Meeting

Part B specifies whether a meeting was held or is being requested to discuss the permit application.

9. Was a meeting held between the company and IDEM prior to submitting this application to discuss the details of the project?

No  Yes: *Date:*

10. Would you like to schedule a meeting with IDEM management and your permit writer to discuss the details of this project?

No  Yes: *Proposed Date for Meeting:*

### PART C: Confidential Business Information

Part C identifies permit applications that require special care to ensure that confidential business information is kept separate from the public file.

Claims of confidentiality must be made at the time the information is submitted to IDEM, and must follow the requirements set out in the Indiana Administrative Code (IAC). To ensure that your information remains confidential, refer to the IDEM, OAQ information regarding submittal of confidential business information. For more information on confidentiality for certain types of business information, please review IDEM's Nonrule Policy Document Air-031-NPD regarding Emission Data.

11. Is any of the information contained within this application being claimed as **Confidential Business Information**?

No  Yes

### PART D: Certification Of Truth, Accuracy, and Completeness

Part D is the official certification that the information contained within the air permit application packet is truthful, accurate, and complete. Any air permit application packet that we receive without a signed certification will be deemed incomplete and may result in denial of the permit.

For a Part 70 Operating Permit (TVOP) or a Source Specific Operating Agreement (SSOA), a "responsible official" as defined in 326 IAC 2-7-1(34) must certify the air permit application. For all other applicants, this person is an "authorized Individual" as defined in 326 IAC 2-1.1-1(1).

*I certify under penalty of law that, based on information and belief formed after reasonable inquiry, the statements and information contained in this application are true, accurate, and complete.*

Mark Allaman  
Name (typed)

Managing Director  
Title

*Mark Allaman*  
Signature

5-19-2023  
Date



**OAQ GENERAL SOURCE DATA APPLICATION**  
**GSD-01: Basic Source Level Information**  
 State Form 50640 (R5 / 1-10)  
 INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT

**IDEM – Office of Air Quality – Permits Branch**  
 100 N. Senate Avenue, MC 61-53 Room 1003  
 Indianapolis, IN 46204-2251  
 Telephone: (317) 233-0178 or  
 Toll Free: 1-800-451-6027 x30178 (within Indiana)  
 Facsimile Number: (317) 232-6749  
[www.IN.gov/idem](http://www.IN.gov/idem)

- NOTES:**
- The purpose of GSD-01 is to provide essential information about the entire source of air pollutant emissions. GSD-01 is a required form.
  - Detailed instructions for this form are available on the Air Permit Application Forms website.
  - All information submitted to IDEM will be made available to the public unless it is submitted under a claim of confidentiality. Claims of confidentiality must be made at the time the information is submitted to IDEM, and must follow the requirements set out in 326 IAC 17.1-4-1. Failure to follow these requirements exactly will result in your information becoming a public record, available for public inspection.

**PART A: Source / Company Location Information**

<b>1. Source / Company Name:</b> Oaktown 1 / Keyrock Environment LLC		<b>2. Plant ID:</b> –	
<b>3. Location Address:</b> North Chattin Road & North Emison Mill Road			
<b>City:</b> Oak Town	<b>State:</b> IN	<b>ZIP Code:</b> 47561 –	
<b>4. County Name:</b> Knox		<b>5. Township Name:</b> Busseron	
<b>6. Geographic Coordinates:</b>			
<b>Latitude:</b> 38.812410°		<b>Longitude:</b> -87.442870°	
<b>7. Universal Transferal Mercadum Coordinates (if known):</b>			
<b>Zone:</b> 16	<b>Horizontal:</b> E 461550.00	<b>Vertical:</b> N 4296053.00	
<b>8. Adjacent States:</b> Is the source located within 50 miles of an adjacent state? <input type="checkbox"/> No <input checked="" type="checkbox"/> Yes – <i>Indicate Adjacent State(s):</i> <input checked="" type="checkbox"/> Illinois (IL) <input type="checkbox"/> Michigan (MI) <input type="checkbox"/> Ohio (OH) <input type="checkbox"/> Kentucky (KY)			
<b>9. Attainment Area Designation:</b> Is the source located within a non-attainment area for any of the criteria air pollutants? <input checked="" type="checkbox"/> No <input type="checkbox"/> Yes – <i>Indicate Nonattainment Pollutant(s):</i> <input type="checkbox"/> CO <input type="checkbox"/> Pb <input type="checkbox"/> NO <sub>x</sub> <input type="checkbox"/> O <sub>3</sub> <input type="checkbox"/> PM <input type="checkbox"/> PM <sub>10</sub> <input type="checkbox"/> PM <sub>2.5</sub> <input type="checkbox"/> SO <sub>2</sub>			
<b>10. Portable / Stationary:</b> Is this a portable or stationary source? <input checked="" type="checkbox"/> Portable <input type="checkbox"/> Stationary			

**PART B: Source Summary**

<b>11. Company Internet Address (optional):</b>
<b>12. Company Name History:</b> Has this source operated under any other name(s)? <input checked="" type="checkbox"/> No <input type="checkbox"/> Yes – <i>Provide information regarding past company names in Part I, Company Name History.</i>
<b>13. Portable Source Location History:</b> Will the location of the portable source be changing in the near future? <input checked="" type="checkbox"/> Not Applicable <input type="checkbox"/> No <input type="checkbox"/> Yes – <i>Complete Part J, Portable Source Location History, and Part K, Request to Change Location of Portable Source.</i>
<b>14. Existing Approvals:</b> Have any exemptions, registrations, or permits been issued to this source? <input checked="" type="checkbox"/> No <input type="checkbox"/> Yes – <i>List these permits and their corresponding emissions units in Part M, Existing Approvals.</i>
<b>15. Unpermitted Emissions Units:</b> Does this source have any unpermitted emissions units? <input checked="" type="checkbox"/> No <input type="checkbox"/> Yes – <i>List all unpermitted emissions units in Part N, Unpermitted Emissions Units.</i>
<b>16. New Source Review:</b> Is this source proposing to construct or modify any emissions units? <input type="checkbox"/> No <input checked="" type="checkbox"/> Yes – <i>List all proposed new construction in Part O, New or Modified Emissions Units.</i>
<b>17. Risk Management Plan:</b> Has this source submitted a Risk Management Plan? <input checked="" type="checkbox"/> Not Required <input type="checkbox"/> No <input type="checkbox"/> Yes → Date submitted: _____ EPA Facility Identifier: – –



**PART C: Source Contact Information**

**IDEM will send the original, signed permit decision to the person identified in this section. This person MUST be an employee of the permitted source.**

**18. Name of Source Contact Person:** Joe Lane

**19. Title (optional):** Permitting and Regulatory Manager

**20. Mailing Address:** 153 Jackson Avenue

**City:** Madison

**State:** WV

**ZIP Code:** 25130 –

**21. Electronic Mail Address (optional):** jlane@keyrockenergy.com

**22. Telephone Number:** ( 304 ) 989 – 5533

**23. Facsimile Number (optional):** ( ) –

**PART D: Authorized Individual/Responsible Official Information**

**IDEM will send a copy of the permit decision to the person indicated in this section, if the Authorized Individual or Responsible Official is different from the Source Contact specified in Part C.**

**24. Name of Authorized Individual or Responsible Official:** Mark Allaman

**25. Title:** Managing Director

**26. Mailing Address:** P.O.Box 2223

**City:** Johnson City

**State:** TN

**ZIP Code:** 37605 –

**27. Telephone Number:** ( 304 ) 573 – 9873

**28. Facsimile Number (optional):** ( ) –

**29. Request to Change the Authorized Individual or Responsible Official:** Is the source officially requesting to change the person designated as the Authorized Individual or Responsible Official in the official documents issued by IDEM, OAQ? *The permit may list the title of the Authorized Individual or Responsible Official in lieu of a specific name.*

No  Yes – **Change Responsible Official to:**

**PART E: Owner Information**

**30. Company Name of Owner:** Keyrock Environment LLC

**31. Name of Owner Contact Person:** Bruce Horman

**32. Mailing Address:** P.O. Box 2223

**City:** Johnson City

**State:** TN

**ZIP Code:** 37605 –

**33. Telephone Number:** ( 618 ) 443 – 8753

**34. Facsimile Number (optional):** ( ) –

**34. Operator:** Does the "Owner" company also operate the source to which this application applies?

No – *Proceed to Part F below.*  Yes – *Enter "SAME AS OWNER" on line 35 and proceed to Part G below.*

**PART F: Operator Information**

**35. Company Name of Operator:** SAME AS OWNER

**36. Name of Operator Contact Person:**

**37. Mailing Address:**

**City:**

**State:**

**ZIP Code:** –

**38. Telephone Number:** ( ) –

**39. Facsimile Number (optional):** ( ) –

**PART G: Agent Information**

<b>40. Company Name of Agent:</b> Keyrock Environment		
<b>41. Type of Agent:</b> <input checked="" type="checkbox"/> Environmental Consultant <input type="checkbox"/> Attorney <input type="checkbox"/> Other (specify):		
<b>42. Name of Agent Contact Person:</b> Joe Lane		
<b>43. Mailing Address:</b> 153 Jackson Avenue		
<b>City:</b> Madison	<b>State:</b> WV	<b>ZIP Code:</b> 25130 –
<b>44. Electronic Mail Address (optional):</b> jlane@keyrockenergy.com		
<b>45. Telephone Number:</b> ( 304 ) 989 – 5533	<b>46. Facsimile Number (optional):</b> (    ) –	
<b>47. Request for Follow-up:</b> Does the “Agent” wish to receive a copy of the preliminary findings during the public notice period (if applicable) and a copy of the final determination? <input type="checkbox"/> No <input checked="" type="checkbox"/> Yes		

**PART H: Local Library Information**

<b>48. Date application packet was filed with the local library:</b> Yes		
<b>49. Name of Library:</b> Knox County Public Library		
<b>50. Name of Librarian (optional):</b>		
<b>51. Mailing Address:</b> 201 S Ledgerwood St, Carlisle, IN 47838		
<b>City:</b> Carlisle	<b>State:</b> IN	<b>ZIP Code:</b> 47838
<b>52. Internet Address (optional):</b>		
<b>53. Electronic Mail Address (optional):</b> blemonskcpl@gmail.com		
<b>54. Telephone Number:</b> ( 812 ) 398 – 4480	<b>55. Facsimile Number (optional):</b> (    ) –	

**PART I: Company Name History (if applicable)**

Complete this section only if the source has previously operated under a legal name that is different from the name listed above in Section A.

56. Legal Name of Company	57. Dates of Use
	to
	to
	to
	to
	to
	to
	to
	to
	to
	to
	to
	to

**58. Company Name Change Request:** Is the source officially requesting to change the legal name that will be printed on all official documents issued by IDEM, OAQ?  
 No     Yes – **Change Company Name to:**

**PART J: Portable Source Location History (if applicable)**

Complete this section only if the source is portable and the location has changed since the previous permit was issued. The current location of the source should be listed in Section A.

59. Plant ID	60. Location of the Portable Source	61. Dates at this Location
-		to
-		to
-		to
-		to
-		to
-		to
-		to
-		to
-		to
-		to
-		to
-		to
-		to
-		to
-		to
-		to
-		to
-		to
-		to
-		to
-		to

**PART K: Request to Change Location of Portable Source (if applicable)**

Complete this section to request a change of location for a portable source.

**62. Current Location:**

Address:

City:

State:

ZIP Code:

-

County Name:

**63. New Location:**

Address:

City:

State:

ZIP Code:

-

County Name:

**PART L: Source Process Description**

Complete this section to summarize the main processes at the source.

64. Process Description	65. Products	66. SIC Code	67. NAICS Code
Sanitary Services		4959	

**PART M: Existing Approvals (if applicable)**

Complete this section to summarize the approvals issued to the source since issuance of the main operating permit.

68. Permit ID	69. Emissions Unit IDs	70. Expiration Date

**PART N: Unpermitted Emissions Units (if applicable)**

Complete this section only if the source has emission units that are not listed in any permit issued by IDEM, OAQ.

71. Emissions Unit ID	72. Type of Emissions Unit	73. Actual Dates		
		Began Construction	Completed Construction	Began Operation

**PART O: New or Modified Emissions Units (if applicable)**

Complete this section only if the source is proposing to add new emission units or modify existing emission units.

74. Emissions Unit ID	75. NEW	76. MOD	77. Type of Emissions Unit	78. Estimated Dates		
				Begin Construction	Complete Construction	Begin Operation
		X	(1)Enclosed Flares	5/15/2023	5/24/2022	6/15/2023

	<b>enter:</b>
<b>State of Operation</b>	IN
<b>Flare type</b>	Zink Trailer 1800
<b>Target flow rate for source [scfm]</b>	403.0
<b>Methane Concentration [%]</b>	100%
<b>CH4 heating value [Btu/scf]</b>	910
<b>Max Heat Release per Flare [MMBtu/hr]</b>	22.0
<b>Number of Flares Required for Target</b>	1

<i>Emission Source</i>	<i>Max Heat Release</i>		<i>Emissions Factor</i>		<i>Emissions</i>	
	<i>Per Flare</i>	<i>Total Site</i>	<i>Pollutant</i>	<i>Value</i>	<i>(lb/hr)</i>	<i>(ton/year)</i>
Zink Trailer 1800 Flares	22.0 MMBTU/hr	22.0 MMBTU/hr	CO	0.1500 lb/mmbtu	3.301	14.5
			NOx	0.1000 lb/mmbtu	2.200	9.6
			PM	17.0000 lb/mmscf	0.411	1.8
			PM10	0.0000 lb/mmscf	-	-
			SO2	0.0000 lb/mmbtu	-	-
			VOM	0.0000 lb/mmbtu	-	-
			HAPs	0.0000 lb/mmbtu	-	-

	<b>enter:</b>
<b>State of Operation</b>	IN
<b>Flare type</b>	AB-200
<b>Target flow rate for source [scfm]</b>	577.0
<b>Methane Concentration [%]</b>	100%
<b>CH4 heating value [Btu/scf]</b>	910
<b>Max Heat Release per Flare [MMBtu/hr]</b>	30.0
<b>Number of Flares Required for Target</b>	1

<i>Total Site Emissions</i>	
<i>Emissions</i>	
<i>(lb/hr)</i>	<i>(ton/year)</i>
6.451	28.3
4.721	20.7
0.567	2.5
0.000	0.0
-	-
-	-
-	-

CO  
NOX  
PM

<i>Emission Source</i>	<i>Max Heat Release</i>		<i>Emissions Factor</i>		<i>Emissions</i>	
	<i>Per Flare</i>	<i>Total Site</i>	<i>Pollutant</i>	<i>Value</i>	<i>(lb/hr)</i>	<i>(ton/year)</i>
AB-200 Flares	31.5 MMBTU/hr	31.5 MMBTU/hr	CO	0.1000 lb/mmbtu	3.150	13.8
			NOx	0.0800 lb/mmbtu	2.520	11.0
			PM	4.5000 lb/mmscf	0.156	0.7
			PM10	0.0000 lb/mmscf	-	-
			SO2	0.0000 lb/mmbtu	-	-
			VOM	0.0000 lb/mmbtu	-	-
			HAPs	0.0000 lb/mmbtu	-	-



John Zink Company LLC  
 11920 East Apache Street  
 Tulsa, Oklahoma 74116  
 United States

T : +1.918.234.1800  
 F : +1.918.234.2700

Alex Bycroft  
 Applications Engineer – Biogas Systems

**DATE:** December 15, 2022  
**TO:** Keyrock Energy  
**REFERENCE:** Enclosed Flare (ZTOF®) – Estimated Emissions

**John Zink Model Number: 6’X30’ ZTOF**

**Design Criteria**

**Flare Gas Stream**

Type: ..... Coal Mine Methane Gas  
 Composition: ..... 100% CH<sub>4</sub> (design) 30 – 100% CH<sub>4</sub> (range); balance N<sub>2</sub>  
 Lower Heating Value: ..... 910 BTU/SCF (design)  
 Temperature: ..... 90°F (design)  
 Flame Arrester Inlet Pressure: ..... 10” H<sub>2</sub>O  
 Flow Rate: ..... 403 SCFM (design normalized at 100% CH<sub>4</sub>)  
   200 – 1,343SCFM (range)  
 Waste Gas Heat Release: ..... 22 MMBTU/hr (maximum)

**Flare Emission Range–(Design Flow with Alternate Composition**

**Coal Mine Methane Gas [ $\leq$ 65% CH<sub>4</sub>; balance N<sub>2</sub>]**

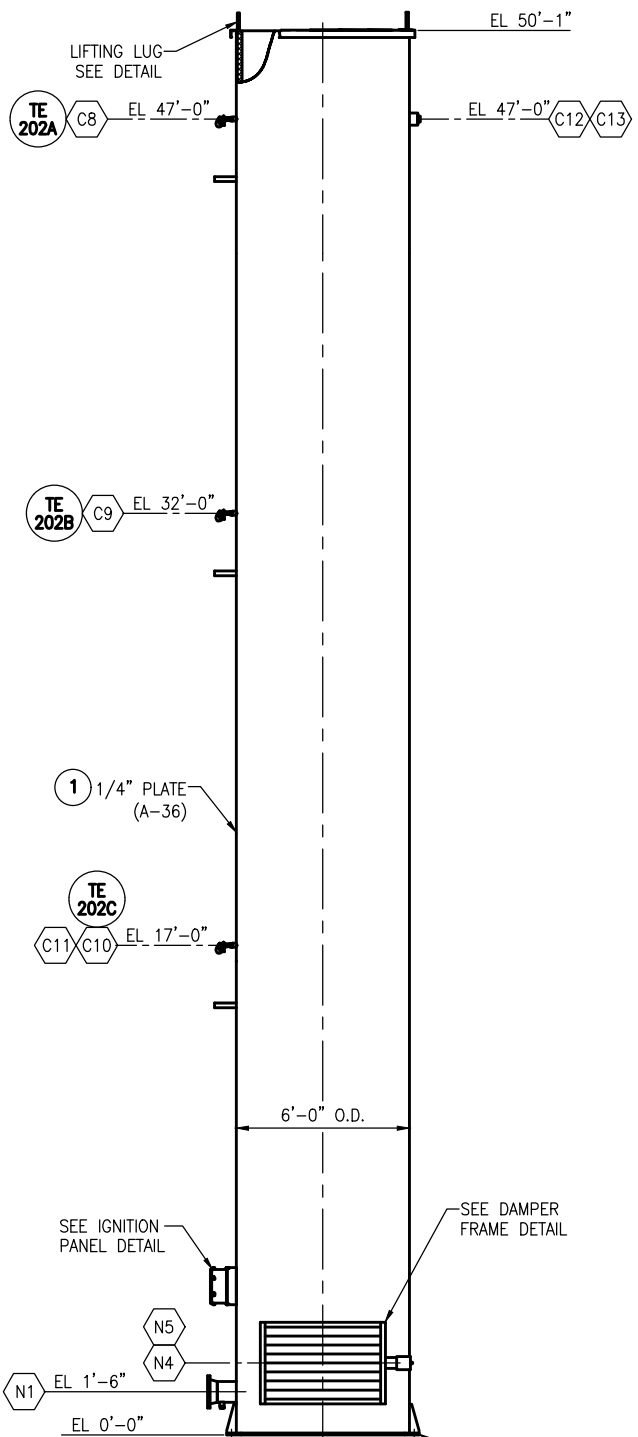
Operating Temperature	1600°F	1800°F
Methane Destruction Efficiency <sup>(1)</sup>	98%	99%
NO <sub>x</sub> , lb / MMBTU <sup>(2)</sup>	0.08	0.10
CO, lb / MMBTU <sup>(3)</sup>	0.20	0.15
SO <sub>x</sub> <sup>(4)</sup>	N/A	
Particulate Matter, lb/10 <sup>6</sup> dscf <sup>(5)</sup>	17	

**Flare Emission Range–(Design Flow with Coal Mine Methane Gas (100% CH<sub>4</sub>))**

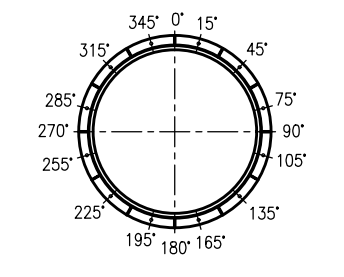
Operating Temperature	1400°F - 1800°F
Methane Destruction Efficiency <sup>(1)</sup>	> 98%
NO <sub>x</sub> , lb / MMBTU <sup>(2)</sup>	0.15
CO, lb / MMBTU <sup>(3)</sup>	0.20
SO <sub>x</sub> <sup>(4)</sup>	N/A
Particulate Matter, lb/10 <sup>6</sup> dscf <sup>(5)</sup>	17

- (1) Typical sulphur containing compounds are expected to have greater than 98% oxidation efficiency.  
 (2) Excludes NO<sub>x</sub> from fixed nitrogen.  
 (3) Excludes CO contribution present in the gas.  
 (4) Sulphur containing compounds in the inlet gas stream will be directly converted to SO<sub>x</sub> based on the destruction efficiency indicated in note 1.  
 (5) Meets AP-42 emission factor as it relates to particulate matter directly generated from combustion. Excludes particulate matter that has origins unrelated to combustion (e.g. particles in the gas stream, dust sucked through the dampers, etc.).

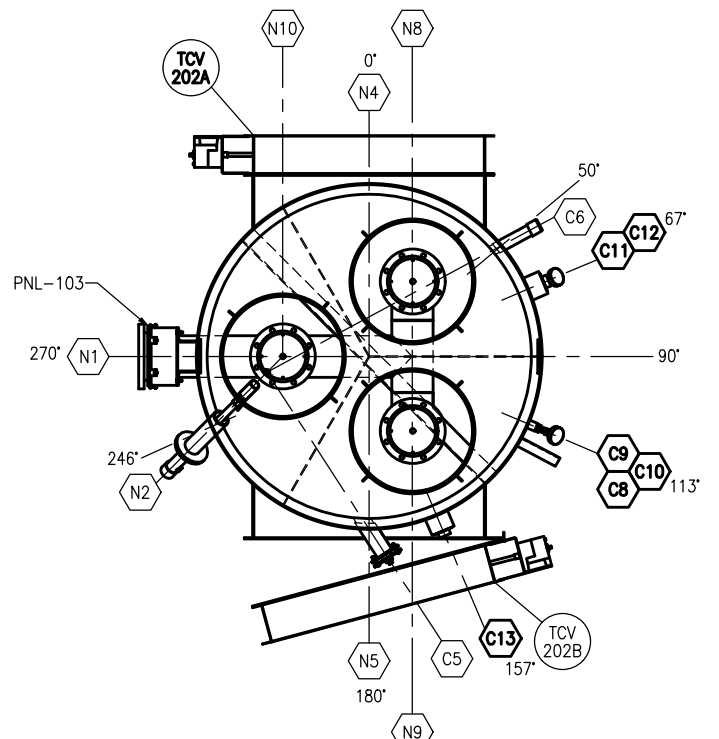
**NOTE:** Estimated emissions are based on field tests of operating units and the higher heating value (HHV) of the gas. Destruction efficiency, NO<sub>x</sub>, and CO emissions shown are valid for combustion of specified gas only.



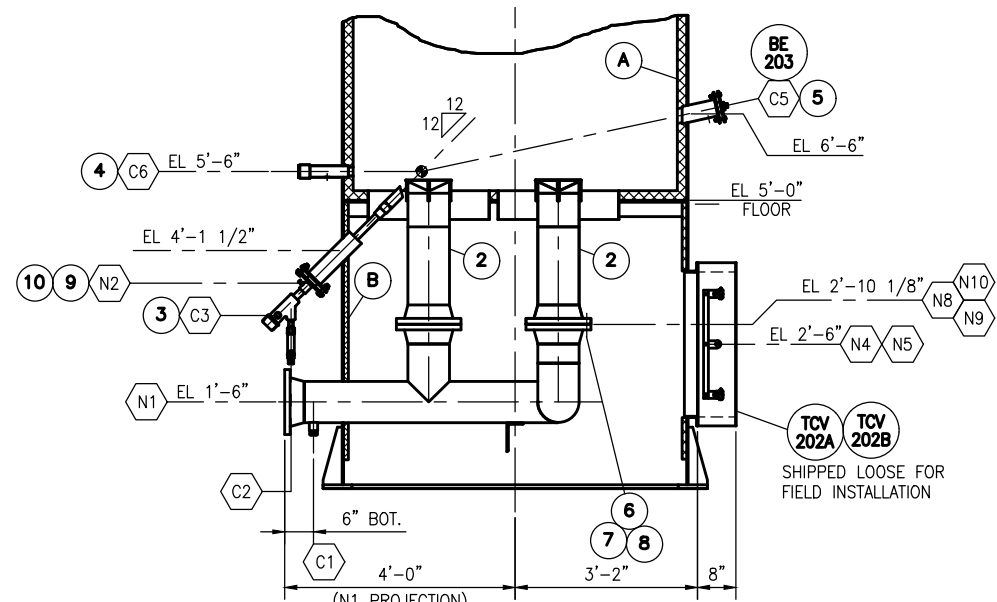
**ELEVATION**  
NOT TRUE ORIENTATION



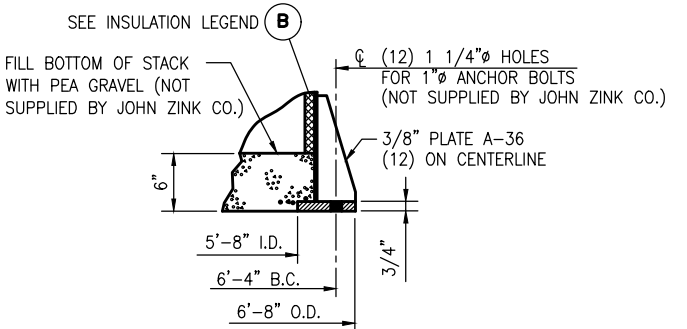
**FOUNDATION BOLT PATTERN**



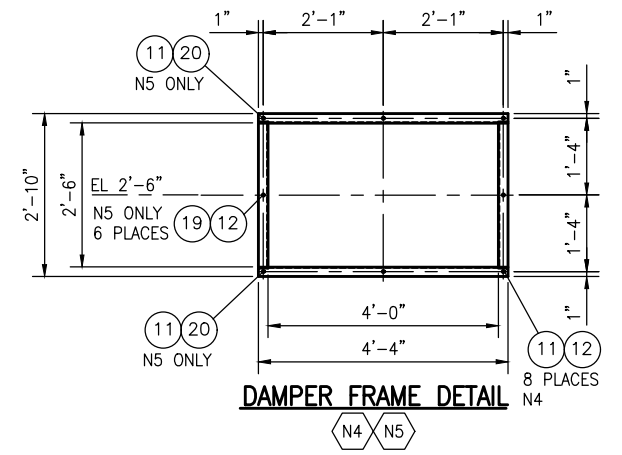
**PLAN VIEW**  
TRUE ORIENTATION



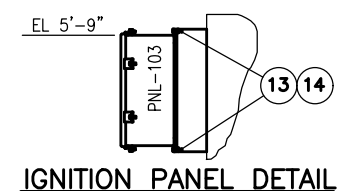
**PARTIAL SECTIONAL ELEVATION**  
NOT TRUE ORIENTATION



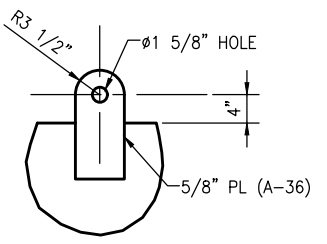
**BASE PLATE DETAIL**



**DAMPER FRAME DETAIL**



**IGNITION PANEL DETAIL**  
SHIPPED LOOSE FOR FIELD INSTALLATION



**LIFTING LUG DETAIL**  
(2 REQ'D. LOCATED AT 90° AND 270°)  
(NOTE: CUT OFF LUGS AFTER STACK ERECTION)

PARTS LIST				
ITEM	QTY	DESCRIPTION	MK: NO	MATERIAL
1	1	ENCLOSED ZTOF FLARE	D-701-1	
2	3	8" FLARE TIP	D-ST-1329-1	
3	1	PILOT ASSEMBLY	ST11915-1	
4	1	2" SIGHT PORT	CA-ST-0600-1	
5	1	SWIVEL SCANNER MOUNT ASSEMBLY	ST12431-1	
6	3	GASKET: 8" 150# RF x 1/16" THK	G8-150-R	NON-ASB
7	24	BOLT, STUD: 3/4" x 4 1/2" LG (PLATED)	SB-6-4 1/2	A-193-B7
8	48	NUT, HVY HEX: 3/4-10NC (PLATED)	SN-6	A-194-2H
9	4	BOLT, HEX HD: 5/8" x 2 1/2" LG (PLATED)	HB-5-2 1/2	A-307
10	4	NUT, REG HEX: 5/8-11NC (PLATED)	HN-5	A-307
11	10	BOLT, HEX HD: 3/8" x 1 1/4" LG (PLATED)	HB-3-1 1/4	A-307
12	16	NUT, REG HEX: 3/8-16NC (PLATED)	HN-3	A-307
13	4	BOLT, HEX HD: 1/4" x 1" LG (PLATED)	HB-2-1	A-307
14	4	NUT, REG HEX: 1/4-20NC (PLATED)	HN-2	A-307
19	6	SCREW, FLAT HD. SL: 3/8-NC x 1" LG. (PLATED)	FH-3-1	A-307
20	2	WING NUT: 3/8-16NC (PLATED)	WN-3	A-307

NOZZLE LEGEND		
MK	QTY	DESCRIPTION
N1	1	GAS CONNECTION: 8" 150# F.F.
N2	1	PILOT MTG CONN: 3/8" PLATE FLG W/ 3" 150# DRILLING
N4-5	2	DAMPER CONN - SEE DETAIL (N5 HINGED)
N8-10	3	FLARE TIP CONN - 8" 150# RF
C1	1	DRAIN - 1" FNPT WITH PLUG
C2	1	PILOT GAS CONN - 1/2" FNPT
C3	1	PILOT CONDUIT CONN - 1/2" FNPT
C5	1	SCANNER CONN - 1" MNPT
C6	1	SIGHT PORT - 2" MNPT
C8-11	4	THERMOCOUPLE CONN - 1" FNPT
C12-13	2	SAMPLE PORT 4" FNPT WITH PLUG

DESIGN DATA	
WINDLOAD (PER ASCE 7-95, EXP. C)	110 M.P.H.
SEISMIC (PER UBC-1994)	ZONE 4
SHEAR @ BASE	7.1 K
MOMENT @ BASE	186.0 K-FT
DEADLOAD	11.7 K
SHELL DESIGN TEMPERATURE	500° F
CORROSION ALLOWANCE	0.0

**LIFTING NOTES**  
 A: MAIN CRANE AT TOP REQUIRES SPREADER BAR, (NOT SUPPLIED BY JOHN ZINK CO.)  
 B: CHOKE STACK AT APPROX. 5'-0" EL WITH TAILING CRANE  
 C: LIFTING LUGS DESIGNED FOR 13 1/2 TON CROSBY ANCHOR SHACKLE AND VERTICAL SLINGS.

**INSULATION LEGEND**  
 A: (1) OVERLAPPING LAYER OF 1" THICK 8 LB DENSITY, 2300° F. BACKED WITH (1) LAYER, 1" THICK 6 LB DENSITY, 2300° F. ON INCONEL PINS AND KEEPERS.  
 B: (1) OVERLAPPING LAYER OF 1" THICK 6 LB DENSITY, 2300° F. ON INCONEL PINS AND KEEPERS.

**GENERAL NOTES**  
 1. TAG NUMBERS TO BE PRECEDED BY JOHN ZINK SALES ORDER NUMBER.  
 2. FLARE ASSEMBLY IS NOT TO BE USED AS AN ANCHOR POINT FOR CUSTOMER PIPING.  
 3. PRE-TENSION ANCHOR BOLTS BY THE "TURN OF THE NUT" METHOD/AISC.  
 4. BOLT HOLES TO STRADDLE NORMAL CENTER LINES UNLESS NOTED.  
 5. FINISH EXTERIOR CARBON STEEL, INSIDE OF SKIRT, BOTTOM OF FLOOR PLATE, AND MANIFOLD. SANDBLAST PER SSPC-SP-6 AND APPLY INORGANIC ZINC RICH PRIMER (2-4 MILS D.F.T.)

FOR PARTS AND SERVICE: • TEL: 1-800-755-4252 • FAX: (918) 234-1968						
NO.	REVISION	DESCRIPTION	BY	CHK	APP	DATE

FOR A LIST OF RELEVANT PATENTS AND TRADEMARKS, PLEASE SEE [JOHNZINKHAMWORTHY.COM/LEGAL-NOTICES](http://johnzinkhamworthy.com/legal-notices)

**JOHN ZINK HAMWORTHY**  
COMBUSTION.  
JOHN ZINK COMPANY, LLC

FOR: ENVIRONMENTAL COMMODITIES CORP.  
USER: OXBOW MINING

ENCLOSED ZTOF FLARE  
6'-0" O.D. x 50' H.

JOBSITE: SOMERSET, COLORADO

S.O. NO: BF-9201954  
P.O. NO: ECCW20181115  
SCALE: NOT TO SCALE

DRAWN: GFG  
DATE: 12/7/18

CHK: GFG  
DATE: 12/7/18

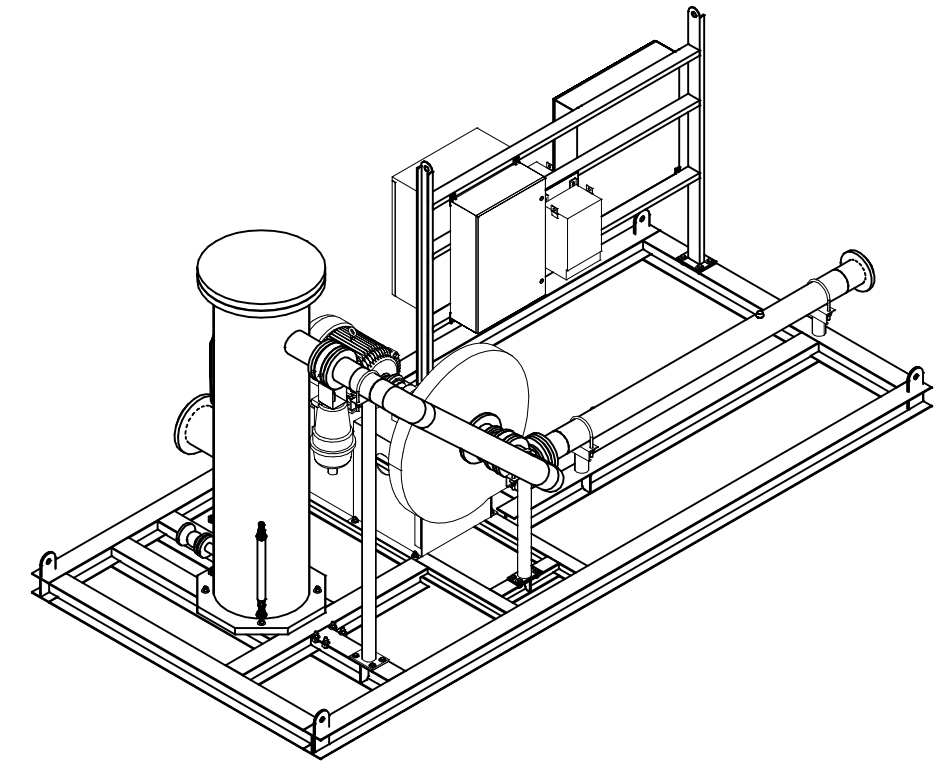
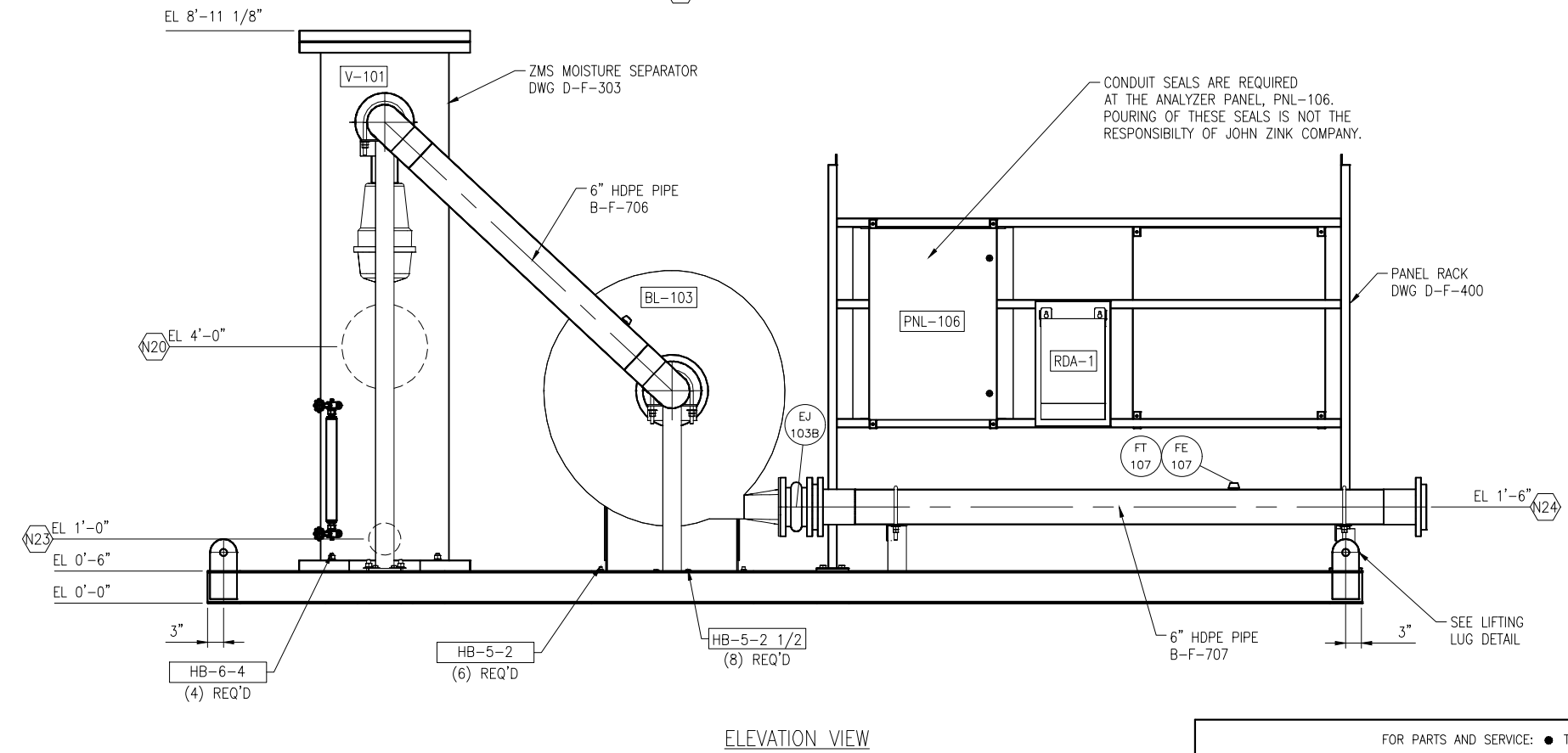
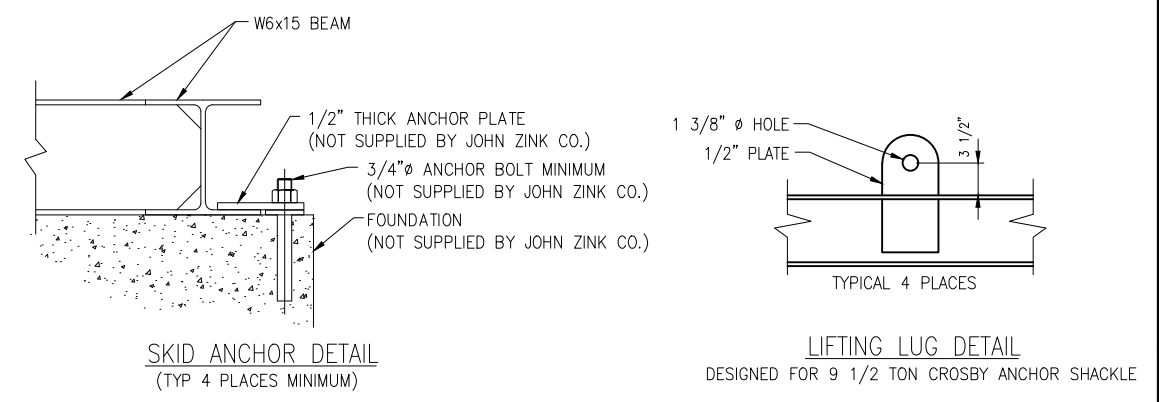
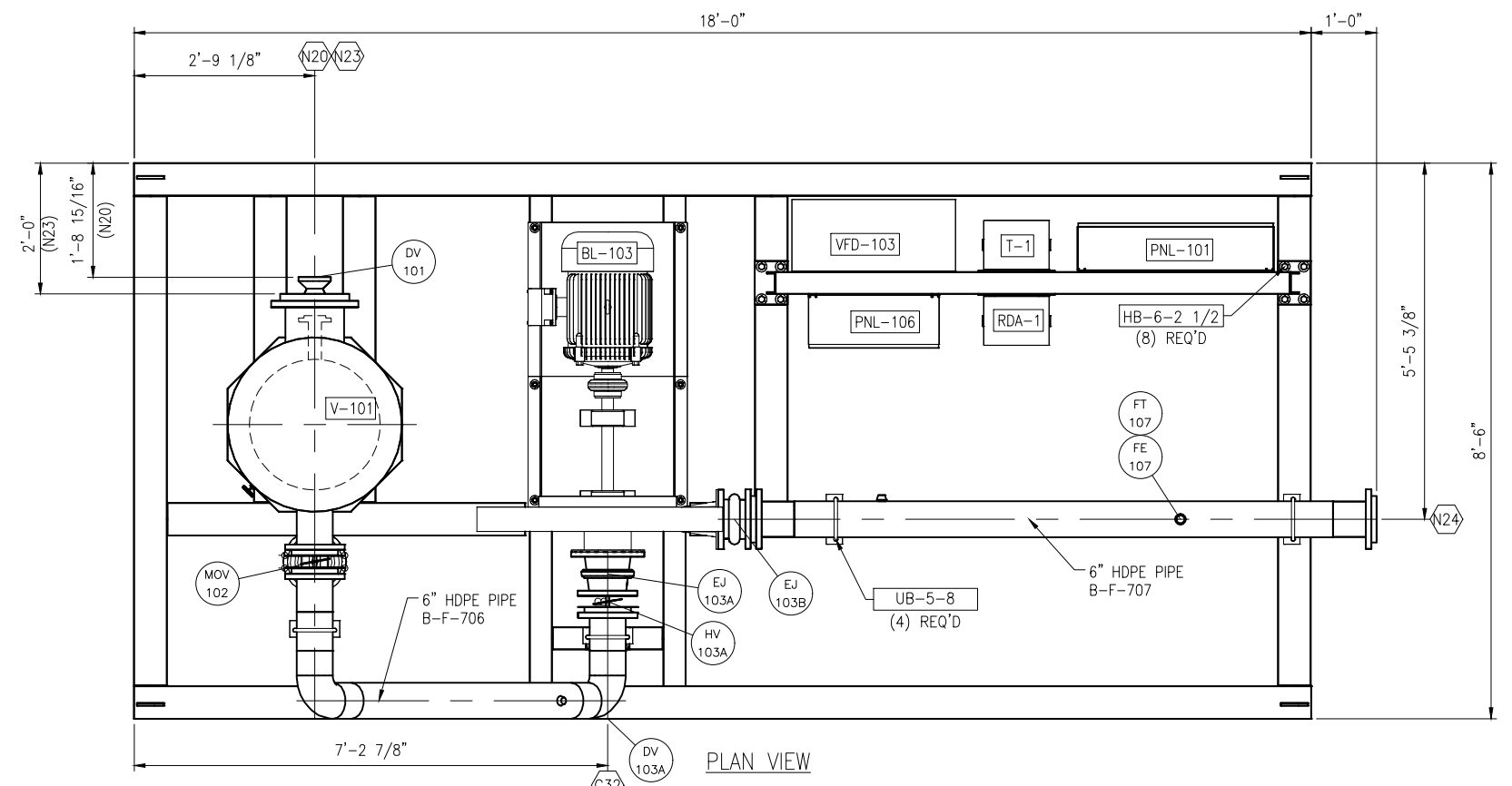
APP: JPR  
DATE: 1/10/19

SHEET: 1 OF 1

DRAWING NUMBER:  
**D-F-9201954-301**

REV. **0**

NOZZLE LEGEND		
MK	QTY	DESCRIPTION
N20	1	GAS INLET: 10" FLANGE ADAPTER WITH 150# BACK-UP RING
N23	1	CONDENSATE DRAIN: 2" FLANGE ADAPTER WITH 150# BACK-UP RING
N24	1	GAS OUTLET: 6" 150# RF FLANGE
C32	1	BLOWER DRAIN: 1/2" NPT



- NOTES
1. PREFIX ALL MK: NO'S WITH SALES ORDER NUMBER.
  2. WEIGHT APPROX. 5,500 LBS.
  3. JOHN ZINK RECOMMENDS THAT A SPREADER BAR BE USED TO LIFT SKID
  4. SKID DESIGN AND CONSTRUCTION IS IN ACCORDANCE WITH STRUCTURAL REQUIREMENTS FOR SEISMIC ZONE 4.
  5. ELECTRICAL AREA CLASSIFICATION NON HAZARDOUS.
  6. SKID, AND PIPE SUPPORTS GALVANIZED PER ASTM A-123.

FOR PARTS AND SERVICE: • TEL: 1-800-755-4252 • FAX: (918) 234-1968						
NO.	REVISION	DESCRIPTION	BY	CHK	APP	DATE

For a list of relevant patents and trademarks, please see [johnzinkhamworthy.com/legal-notices](http://johnzinkhamworthy.com/legal-notices)

**JOHN ZINK HAMWORTHY**  
COMBUSTION.  
JOHN ZINK COMPANY, LLC

FOR: ENVIRONMENTAL COMMODITIES CORP.	BLOWER SKID ASSEMBLY		
USER: OXBOW MINING			
JOB SITE: SOMERSET, COLORADO			
S.O. NO: BF-9201954	DRAWN: MR	CHK: GFG	APP: JPR
P.O. NO: ECCW20181115	DATE: 12/12/18	DATE: 12/12/18	DATE: 1/10/19
SCALE: NOT TO SCALE	DRAWING NUMBER: D-F-9201954-304		SHEET: 1 OF 1
			REV. 0

File Name: c:\active\p-repor\9201954\drafting\drawings\304s110.dwg Plot Date: 1/10/2019 3:53 PM





To: Joe Stone  
Keyrock Energy

The AB-200 combustor is a non-temperature-controlled system. Following emissions rates are expected (not guaranteed) as stated below at 1700 Deg F and assuming a typical coal mine vent gas composition (methane and inerts, not heavier hydrocarbons):

NOx	0.08 lb/MMBtu
CO	0.1 lb/MMBtu
SOx	0 (N/A)
VOM (Non-Methane and Ethane)	0
PM	4.5 lb/MMSCF
PM 10	4 lb/MMSCF
DRE	≥99%
Tested Capacity w/5' stack extension	577 SCFM

The above emissions factors are based on gas with lower heating value of 910 BTU/scf.

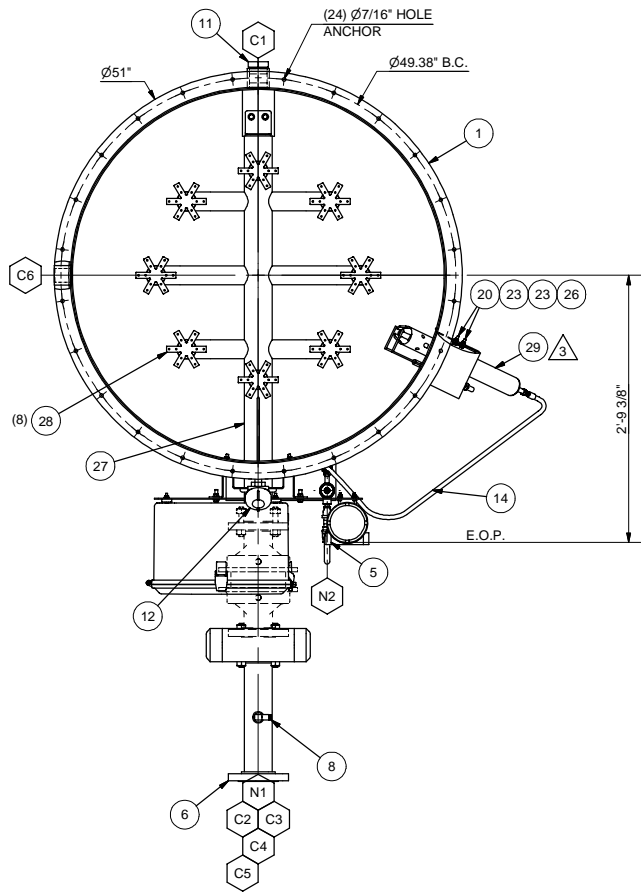
Cimarron submits this letter to Keyrock under the terms of the Non Disclosure Agreement executed between Cimarron and Keyrock on September 25th, 2020, and considers this letter to be "Confidential Information" subject to the duties and obligations therein.

Should you have further questions, please do not hesitate to contact the undersigned.

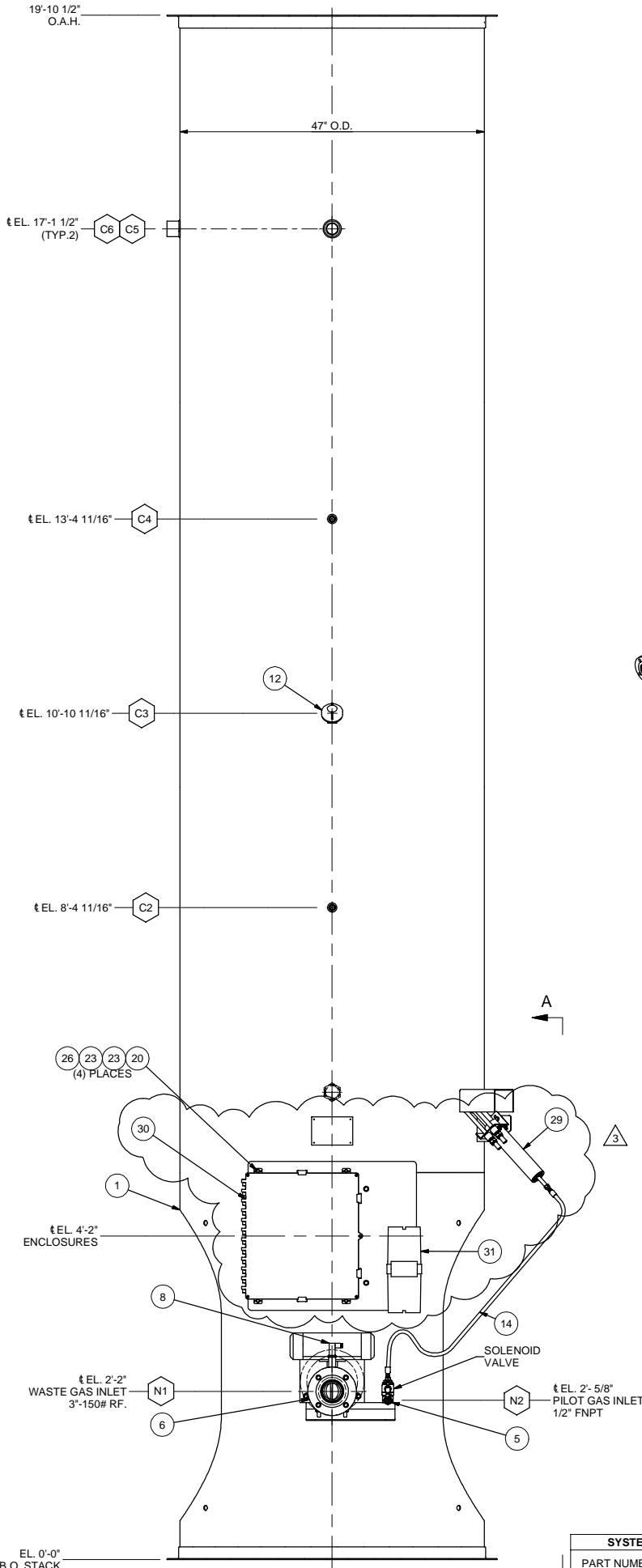
Best Regards,

**Giorgio Sibilía**  
Cimarron | Combustion Products

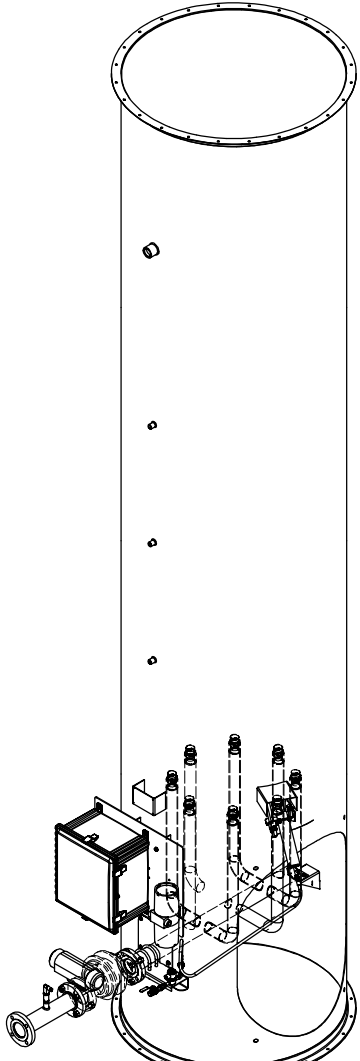
(Cell) 512-247-1557  
[gsibilía@cimarron.com](mailto:gsibilía@cimarron.com)



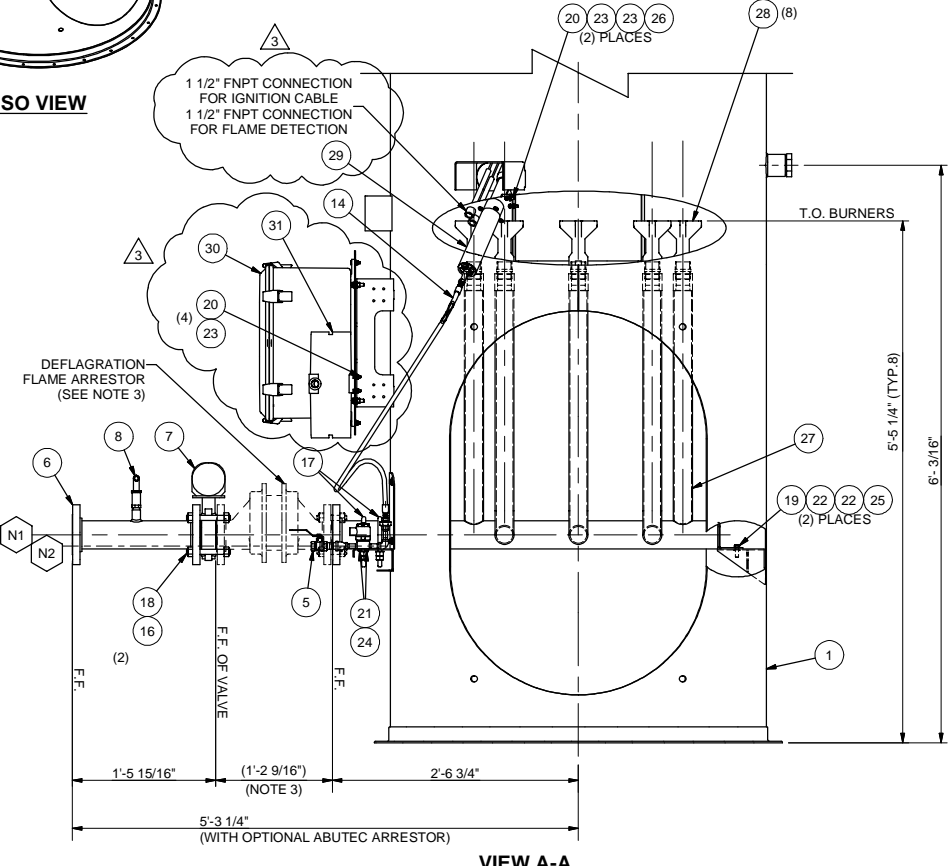
TOP VIEW



FRONT VIEW



ISO VIEW



VIEW A-A

NOZZLE SCHEDULE					
ITEM	TYPE	SERVICE	SIZE	RATING	SPEC
N1	RFSO	WASTE GAS	3"	150#	304SS
N2	FNPT	PILOT GAS	1/2"	150#	304SS
C1	FNPT	SIGHT GLASS	2"	150#	304SS
C2	FNPT	AUXILIARY	1/2"	150#	304SS
C3	FNPT	AUXILIARY	1/2"	150#	304SS
C4	FNPT	THERMOCOUPLE	1/2"	150#	304SS
C5	FNPT	AUXILIARY	1 1/2"	150#	304SS
C6	FNPT	AUXILIARY	1 1/2"	150#	304SS

BILL OF MATERIALS				
ITEM	QTY	PART NUMBER	DESCRIPTION	SPEC
1	1	AB200A200	STACK ASSEMBLY AB200	304 SS
2	-	-	(NOT USED)	-
3	-	-	(NOT USED)	-
4	-	-	(NOT USED)	-
5	1	104832	PILOT GAS TRAIN ASSEMBLY	304 SS
6	1	106767	BURNER INLET SPOOL ASSEMBLY	304 SS
7	1	108517	VALVE BUTTERFLY PNEUMATIC 3IN LP	304 SS
8	1	104281	PRESSURE TRANSMITTER 1/2IN NPT 0-50IN H2O W/ 6IN LEADS	304 SS
9	-	-	(NOT USED)	-
10	-	-	(NOT USED)	-
11	1	104528	SIGHT GLASS 2IN MNPT W/O REFLECTOR	304 SS
12	1	104280	THERMOWELL 9IN X 0.260 BORE 1/2IN MNPT STRAIGHT	304 SS
13	1	104493	IGNITION CABLE EXTERNAL 5FT PROFIRE (NOT SHOWN)	-
14	1	104356	HOSE BRAIDED 1/4IN X 48IN W/ MNPT ENDS	304 SS
15	1	104279	THERMOCOUPLE 9IN TYPE K	304 SS
16	2	104385	GASKET 3IN 150# SPIRAL WOUND CG 316L INNER X CS OUTER X GRAPHITE FILLER GREEN	304 SS
17	2	102692	U-BOLT, 3IN x 1/2IN W/ (2) FLAT WASHERS & (4) HEX NUTS	304 SS
18	4	104698	STUD BOLT, 5/8IN X 5 1/2IN W/ (2) HVY. HEX NUTS EA.	A-193-B8 A-194-8
19	2	154562	BOLT HEX CAP SCREW FULL THREAD 3/8IN-16 UNC x 1-1/4IN F593 GR 18-8	F593-18-8
20	10	154500	BOLT HEX CAP SCREW 1/4IN-20 UNC x 1IN F593 GR 18-8	F593-18-8
21	2	106996	BOLT HEX CAP SCREW FULL THREAD #10-32 UNF x 3/8IN F593 GR 18-8	F593-18-8
22	4	155415	WASHER FLAT 3/8IN NARROW F844 18-8	F844-18-8
23	16	155408	WASHER FLAT 1/4IN NARROW F844 18-8	F844-18-8
24	2	100609	WASHER FLAT #10 NARROW F844 18-8	F844-18-8
25	2	154874	NUT HEX 3/8IN-16 UNC F594 GR 18-8	F594-18-8
26	8	154866	NUT HEX 1/4IN-20 UNC F594 GR 18-8	F594-18-8
27	1	110531	SPIDER BURNER MANIFOLD ASSEMBLY	304 SS
28	8	109583	SPIDER BURNER CASTING, 1 1/2" FNPT (CK20) (NOTE 4)	CK20
29	1	112786	PILOT ASSEMBLY ACP-AB	-
30	1	SEE TABLE	MAIN CONTROL PANEL	-
31	1	113038	PILOT TRANSFORMER ENCLOSURE	-

NOTES: (UNLESS OTHERWISE SPECIFIED)

- ALL BOLT HOLES SHALL STRADDLE COMMON CENTERLINES.
- ALL NOZZLES AND COUPLINGS TO BE CAPPED OR PLUGGED PRIOR TO SHIPPING.
- DEFLAGRATION FLAME ARRESTOR REQUIRED. OPTIONAL ABUTEK ARRESTOR KIT SHOWN AS REFERENCE.
- BURNER DRILLINGS MUST BE CONFIRMED BY ENGINEERING.

SYSTEM DESIGNATION TABLE		
PART NUMBER	VOLTAGE	CONTROL PANEL
940004A	24V DC	112520
940004B	120V AC	112522

UNLESS OTHERWISE SPECIFIED ALL DIMENSIONS ARE IN INCHES. DO NOT SCALE DRAWING.

TOLERANCE:  
 OVERALL ELEVATION ±1"  
 NOZZLE ELEVATION ±1/2"  
 GYRE ELEVATION ±1"  
 FRACTIONS ±1/16"  
 DECIMALS XX ±.05  
 DECIMALS XXX ±.030  
 ANGLE SQUARENESS ±1°  
 ACROSS FACE ±1/16"  
 FLANGE ROTATION ±1/16" MAX.

PROPRIETARY INFORMATION  
 THIS DOCUMENT CONTAINS FLARE INDUSTRIES, LLC PROPRIETARY AND CONFIDENTIAL INFORMATION. IT IS LOANED FOR LIMITED PURPOSES ONLY AND REMAINS THE PROPERTY OF FLARE INDUSTRIES, LLC. IT MAY NOT BE REPRODUCED IN WHOLE OR IN PART WITHOUT THE PRIOR WRITTEN CONSENT OF FLARE INDUSTRIES, LLC. THIS DOCUMENT IS TO BE RETURNED UPON REQUEST AND IN ALL EVENTS WITH COMPLETION OF THE USE FOR WHICH IT WAS LOANED.

ABUTEK  
 AUSTIN, TEXAS

GENERAL ARRANGEMENT  
 AB-200  
 STANDARD COMBUSTION

APPROX WEIGHT/LBS 1,800

QTY SHIP ORDER

REV	DATE	DESCRIPTION	BY	CHK'D	APPR
3	08/02/19	REPLACED PILOT, X-FORMER, AND CONTROL PANEL	RJ	MLM	MT
2	08/01/18	REPLACED TUBES WITH BURNERS	RJ	SOP	JH
1	8/25/17	CORRECT NOZZLE SCHEDULE N2 SIZE	FPF		
0	5/5/17	ISSUED FOR CONSTRUCTION	FPF	DMR	RLW

REVISION HISTORY		
REV	DATE	DESCRIPTION
3	08/02/19	REPLACED PILOT, X-FORMER, AND CONTROL PANEL
2	08/01/18	REPLACED TUBES WITH BURNERS
1	8/25/17	CORRECT NOZZLE SCHEDULE N2 SIZE
0	5/5/17	ISSUED FOR CONSTRUCTION

CUSTOMER/LOCATION		ABUTEK AUSTIN, TEXAS	
TITLE		GENERAL ARRANGEMENT AB-200 STANDARD COMBUSTION	
SCALE	N.T.S.	PROJECT NO.	AB 200
SHEET	1 OF 1	DWG NO.	940004
		REV LEVEL	3

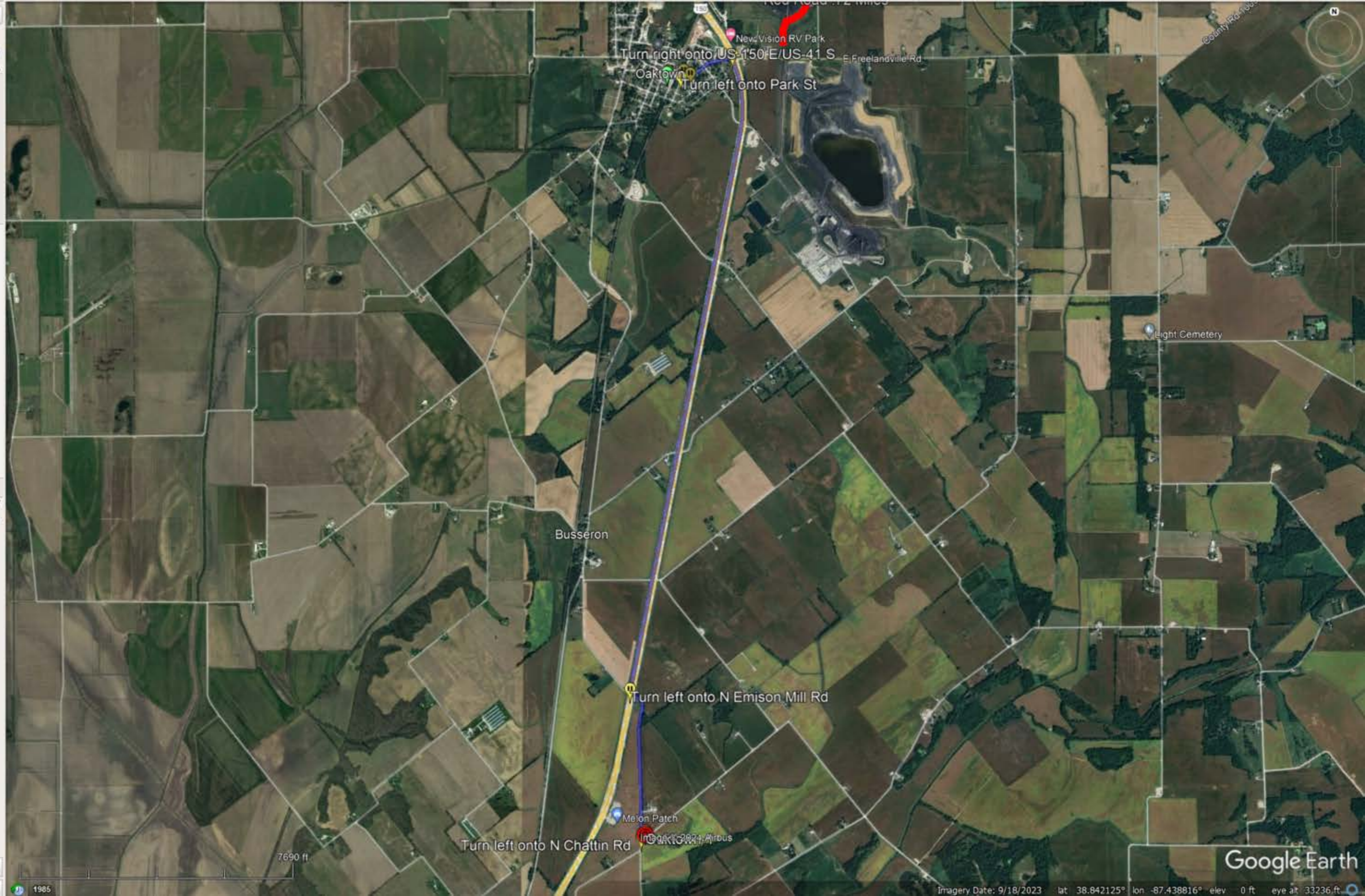
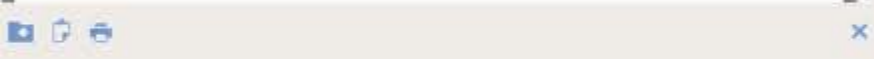




**A** United States Postal Service

- 1. Head **southeast** on **Main St** toward **Legion Ln**  
394 ft
- 2. Turn **left** onto **Park St**  
203 ft
- 3. Turn **right** at the 1st cross street onto **3rd St**  
213 ft
- 4. Turn **left** onto **Maple Ave**  
0.3 mi
- 5. Turn **right** onto **US-150 E/US-41 S**  
3.4 mi
- 6. Turn **left** onto **N Emison Mill Rd**  
0.8 mi
- 7. Turn **left** onto **N Chattin Rd**  
200 ft

**B** 9044-9130 N Chattin Rd

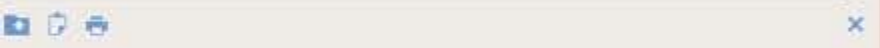




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3.4 mi
- 6. Turn **left** onto **N Emison Mill Rd**  
0.8 mi
- 7. Turn **left** onto **N Chattin Rd**  
200 ft

**B** 9044-9130 N Chattin Rd





**AIR PERMIT APPLICATION COVER SHEET**  
 State Form 50639 (R4 / 1-10)  
 INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT

**IDEM – Office of Air Quality – Permits Branch**  
 100 N. Senate Avenue, MC 61-53 Room 1003  
 Indianapolis, IN 46204-2251  
 Telephone: (317) 233-0178 or  
 Toll Free: 1-800-451-6027 x30178 (within Indiana)  
 Facsimile Number: (317) 232-6749  
[www.IN.gov/idem](http://www.IN.gov/idem)

**NOTES:**

- The purpose of this cover sheet is to obtain the core information needed to process the air permit application. This cover sheet is required for all air permit applications submitted to IDEM, OAQ. Place this cover sheet on top of all subsequent forms and attachments that encompass your air permit application packet.
- Submit the completed air permit application packet, including all forms and attachments, to **IDEM Air Permits Administration** using the address in the upper right hand corner of this page.
- IDEM will send a bill to collect the filing fee and any other applicable fees.
- Detailed instructions for this form are available on the Air Permit Application Forms website.

**FOR OFFICE USE ONLY**

**PERMIT NUMBER:**

\_\_\_\_\_

**DATE APPLICATION WAS RECEIVED:**

\_\_\_\_\_

**1. Tax ID Number:** 26-0602410

**PART A: Purpose of Application**

Part A identifies the purpose of this air permit application. For the purposes of this form, the term "source" refers to the plant site as a whole and NOT to individual emissions units.

**2. Source / Company Name:** Oaktown 2 / Keyrock Environment LLC **3. Plant ID:** 083 \_ 00066

**4. Billing Address:** 153 Jackson Avenue

**City:** Madison **State:** WV **ZIP Code:** 25130 –

**5. Permit Level:**  Exemption  Registration  SSOA  MSOP  FESOP  TVOP  PBR

**6. Application Summary:** Check all that apply. Multiple permit numbers may be assigned as needed based on the choices selected below.

- |   |   |  |
|---|---|--|
| <input type="checkbox"/> Initial Permit   | <input type="checkbox"/> Renewal of Operating Permit        | <input type="checkbox"/> Asphalt General Permit            |
| <input type="checkbox"/> Review Request   | <input type="checkbox"/> Revocation of Operating Permit     | <input type="checkbox"/> Alternate Emission Factor Request |
| <input type="checkbox"/> Interim Approval | <input type="checkbox"/> Relocation of Portable Source      | <input type="checkbox"/> Acid Deposition (Phase II)        |
| <input type="checkbox"/> Site Closure     | <input type="checkbox"/> Emission Reduction Credit Registry |  |

Transition (between permit levels) *From:* Exemption *To:* Registration

- |  |  |   |
|--|--|---|
| <input type="checkbox"/> Administrative Amendment: | <input type="checkbox"/> Company Name Change                     | <input type="checkbox"/> Change of Responsible Official |
|  | <input type="checkbox"/> Correction to Non-Technical Information | <input type="checkbox"/> Notice Only Change             |
|  | <input type="checkbox"/> Other (specify):                        |   |

- Modification:
- |   |  |
|---|--|
| <input checked="" type="checkbox"/> New Emission Unit or Control Device | <input type="checkbox"/> Modified Emission Unit or Control Device        |
| <input type="checkbox"/> New Applicable Permit Requirement              | <input type="checkbox"/> Change to Applicability of a Permit Requirement |
| <input type="checkbox"/> Prevention of Significant Deterioration        | <input type="checkbox"/> Emission Offset                                 |
| <input type="checkbox"/> Minor Source Modification                      | <input type="checkbox"/> Significant Source Modification                 |
| <input type="checkbox"/> Minor Permit Modification                      | <input type="checkbox"/> Significant Permit Modification                 |
| <input type="checkbox"/> Other (specify):                               |  |

**7. Is this an application for an initial construction and/or operating permit for a "Greenfield" Source?**  Yes  No

**8. Is this an application for construction of a new emissions unit at an Existing Source?**  Yes  No

### PART B: Pre-Application Meeting

Part B specifies whether a meeting was held or is being requested to discuss the permit application.

9. Was a meeting held between the company and IDEM prior to submitting this application to discuss the details of the project?

No  Yes: *Date:*

10. Would you like to schedule a meeting with IDEM management and your permit writer to discuss the details of this project?

No  Yes: *Proposed Date for Meeting:*

### PART C: Confidential Business Information

Part C identifies permit applications that require special care to ensure that confidential business information is kept separate from the public file.

Claims of confidentiality must be made at the time the information is submitted to IDEM, and must follow the requirements set out in the Indiana Administrative Code (IAC). To ensure that your information remains confidential, refer to the IDEM, OAQ information regarding submittal of confidential business information. For more information on confidentiality for certain types of business information, please review IDEM's Nonrule Policy Document Air-031-NPD regarding Emission Data.

11. Is any of the information contained within this application being claimed as **Confidential Business Information**?

No  Yes

### PART D: Certification Of Truth, Accuracy, and Completeness

Part D is the official certification that the information contained within the air permit application packet is truthful, accurate, and complete. Any air permit application packet that we receive without a signed certification will be deemed incomplete and may result in denial of the permit.

For a Part 70 Operating Permit (TVOP) or a Source Specific Operating Agreement (SSOA), a "responsible official" as defined in 326 IAC 2-7-1(34) must certify the air permit application. For all other applicants, this person is an "authorized Individual" as defined in 326 IAC 2-1.1-1(1).

*I certify under penalty of law that, based on information and belief formed after reasonable inquiry, the statements and information contained in this application are true, accurate, and complete.*

Mark Allaman  
Name (typed)

Managing Director  
Title

*Mark Allaman*  
Signature

5-19-2023  
Date

**OAQ GENERAL SOURCE DATA APPLICATION****GSD-01: Basic Source Level Information**

State Form 50640 (R5 / 1-10)

**INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT**

**IDEM – Office of Air Quality – Permits Branch**  
 100 N. Senate Avenue, MC 61-53 Room 1003  
 Indianapolis, IN 46204-2251  
 Telephone: (317) 233-0178 or  
 Toll Free: 1-800-451-6027 x30178 (within Indiana)  
 Facsimile Number: (317) 232-6749  
[www.IN.gov/idem](http://www.IN.gov/idem)

**NOTES:**

- The purpose of GSD-01 is to provide essential information about the entire source of air pollutant emissions. GSD-01 is a required form.
- Detailed instructions for this form are available on the Air Permit Application Forms website.
- All information submitted to IDEM will be made available to the public unless it is submitted under a claim of confidentiality. Claims of confidentiality must be made at the time the information is submitted to IDEM, and must follow the requirements set out in 326 IAC 17.1-4-1. Failure to follow these requirements exactly will result in your information becoming a public record, available for public inspection.

**PART A: Source / Company Location Information**

<b>1. Source / Company Name:</b> Oaktown 2 / Keyrock Environment LLC		<b>2. Plant ID:</b> —	
<b>3. Location Address:</b> 1500 feet north of the intersection of E. Freedlanville Rd. and N. Abrams Rd			
<b>City:</b> Oak Town	<b>State:</b> IN	<b>ZIP Code:</b> 47561 —	
<b>4. County Name:</b> Knox		<b>5. Township Name:</b> Busseron	
<b>6. Geographic Coordinates:</b>			
<b>Latitude:</b> 38.878916°		<b>Longitude:</b> -87.433010°	
<b>7. Universal Transferal Mercadum Coordinates (if known):</b>			
<b>Zone:</b> 16	<b>Horizontal:</b> E 462441.01	<b>Vertical:</b> N 4303428.99	
<b>8. Adjacent States:</b> Is the source located within 50 miles of an adjacent state? <input type="checkbox"/> No <input checked="" type="checkbox"/> Yes – <i>Indicate Adjacent State(s):</i> <input checked="" type="checkbox"/> Illinois (IL) <input type="checkbox"/> Michigan (MI) <input type="checkbox"/> Ohio (OH) <input type="checkbox"/> Kentucky (KY)			
<b>9. Attainment Area Designation:</b> Is the source located within a non-attainment area for any of the criteria air pollutants? <input checked="" type="checkbox"/> No <input type="checkbox"/> Yes – <i>Indicate Nonattainment Pollutant(s):</i> <input type="checkbox"/> CO <input type="checkbox"/> Pb <input type="checkbox"/> NO <sub>x</sub> <input type="checkbox"/> O <sub>3</sub> <input type="checkbox"/> PM <input type="checkbox"/> PM <sub>10</sub> <input type="checkbox"/> PM <sub>2.5</sub> <input type="checkbox"/> SO <sub>2</sub>			
<b>10. Portable / Stationary:</b> Is this a portable or stationary source? <input checked="" type="checkbox"/> Portable <input type="checkbox"/> Stationary			

**PART B: Source Summary**

<b>11. Company Internet Address (optional):</b>
<b>12. Company Name History:</b> Has this source operated under any other name(s)? <input checked="" type="checkbox"/> No <input type="checkbox"/> Yes – <i>Provide information regarding past company names in Part I, Company Name History.</i>
<b>13. Portable Source Location History:</b> Will the location of the portable source be changing in the near future? <input checked="" type="checkbox"/> Not Applicable <input type="checkbox"/> No <input type="checkbox"/> Yes – <i>Complete Part J, Portable Source Location History, and Part K, Request to Change Location of Portable Source.</i>
<b>14. Existing Approvals:</b> Have any exemptions, registrations, or permits been issued to this source? <input checked="" type="checkbox"/> No <input type="checkbox"/> Yes – <i>List these permits and their corresponding emissions units in Part M, Existing Approvals.</i>
<b>15. Unpermitted Emissions Units:</b> Does this source have any unpermitted emissions units? <input checked="" type="checkbox"/> No <input type="checkbox"/> Yes – <i>List all unpermitted emissions units in Part N, Unpermitted Emissions Units.</i>
<b>16. New Source Review:</b> Is this source proposing to construct or modify any emissions units? <input type="checkbox"/> No <input checked="" type="checkbox"/> Yes – <i>List all proposed new construction in Part O, New or Modified Emissions Units.</i>
<b>17. Risk Management Plan:</b> Has this source submitted a Risk Management Plan? <input checked="" type="checkbox"/> Not Required <input type="checkbox"/> No <input type="checkbox"/> Yes → Date submitted: _____ EPA Facility Identifier: — —

**PART C: Source Contact Information**

**IDEM will send the original, signed permit decision to the person identified in this section. This person MUST be an employee of the permitted source.**

18. Name of Source Contact Person: Joe Lane

19. Title (optional): Permitting and Regulatory Manager

20. Mailing Address: 153 Jackson Avenue

City: Madison

State: WV

ZIP Code: 25130 –

21. Electronic Mail Address (optional): jlane@keyrockenergy.com

22. Telephone Number: ( 304 ) 989 – 5533

23. Facsimile Number (optional): ( ) –

**PART D: Authorized Individual/Responsible Official Information**

IDEM will send a copy of the permit decision to the person indicated in this section, if the Authorized Individual or Responsible Official is different from the Source Contact specified in Part C.

24. Name of Authorized Individual or Responsible Official: Mark Allaman

25. Title: Managing Director

26. Mailing Address: P.O.Box 2223

City: Johnson City

State: TN

ZIP Code: 37605 –

27. Telephone Number: ( 304 ) 573 – 9873

28. Facsimile Number (optional): ( ) –

29. Request to Change the Authorized Individual or Responsible Official: Is the source officially requesting to change the person designated as the Authorized Individual or Responsible Official in the official documents issued by IDEM, OAQ? The permit may list the title of the Authorized Individual or Responsible Official in lieu of a specific name.

No  Yes – **Change Responsible Official to:**

**PART E: Owner Information**

30. Company Name of Owner: Keyrock Environment LLC

31. Name of Owner Contact Person: Bruce Horman

32. Mailing Address: P.O. Box 2223

City: Johnson City

State: TN

ZIP Code: 37605 –

33. Telephone Number: ( 618 ) 443 – 8753

34. Facsimile Number (optional): ( ) –

34. Operator: Does the "Owner" company also operate the source to which this application applies?

No – Proceed to Part F below.  Yes – Enter "SAME AS OWNER" on line 35 and proceed to Part G below.

**PART F: Operator Information**

35. Company Name of Operator: SAME AS OWNER

36. Name of Operator Contact Person:

37. Mailing Address:

City:

State:

ZIP Code: –

38. Telephone Number: ( ) –

39. Facsimile Number (optional): ( ) –



**PART G: Agent Information**

40. <b>Company Name of Agent:</b> Keyrock Environment		
41. <b>Type of Agent:</b> <input checked="" type="checkbox"/> Environmental Consultant <input type="checkbox"/> Attorney <input type="checkbox"/> Other (specify):		
42. <b>Name of Agent Contact Person:</b> Joe Lane		
43. <b>Mailing Address:</b> 153 Jackson Avenue		
<b>City:</b> Madison	<b>State:</b> WV	<b>ZIP Code:</b> 25130 –
44. <b>Electronic Mail Address (optional):</b> jlane@keyrockenergy.com		
45. <b>Telephone Number:</b> ( 304 ) 989 – 5533		46. <b>Facsimile Number (optional):</b> (     ) –
47. <b>Request for Follow-up:</b> Does the “Agent” wish to receive a copy of the preliminary findings during the public notice period (if applicable) and a copy of the final determination? <input type="checkbox"/> No <input checked="" type="checkbox"/> Yes		

**PART H: Local Library Information**

48. <b>Date application packet was filed with the local library:</b> Yes		
49. <b>Name of Library:</b> Knox County Public Library		
50. <b>Name of Librarian (optional):</b>		
51. <b>Mailing Address:</b> 201 S Ledgerwood St, Carlisle, IN 47838		
<b>City:</b> Carlisle	<b>State:</b> IN	<b>ZIP Code:</b> 47838
52. <b>Internet Address (optional):</b>		
53. <b>Electronic Mail Address (optional):</b> blemonskcpl@gmail.com		
54. <b>Telephone Number:</b> ( 812 ) 398 – 4480		55. <b>Facsimile Number (optional):</b> (     ) –

**PART I: Company Name History (if applicable)**

Complete this section only if the source has previously operated under a legal name that is different from the name listed above in Section A.

56. Legal Name of Company	57. Dates of Use
	to
	to
	to
	to
	to
	to
	to
	to
	to
	to

58. <b>Company Name Change Request:</b> Is the source officially requesting to change the legal name that will be printed on all official documents issued by IDEM, OAQ? <input type="checkbox"/> No <input type="checkbox"/> Yes – <i>Change Company Name to:</i>
---



**PART L: Source Process Description**

Complete this section to summarize the main processes at the source.

64. Process Description	65. Products	66. SIC Code	67. NAICS Code
Sanitary Services		4959	

**PART M: Existing Approvals (if applicable)**

Complete this section to summarize the approvals issued to the source since issuance of the main operating permit.

68. Permit ID	69. Emissions Unit IDs	70. Expiration Date

**PART N: Unpermitted Emissions Units (if applicable)**

Complete this section only if the source has emission units that are not listed in any permit issued by IDEM, OAQ.

71. Emissions Unit ID	72. Type of Emissions Unit	73. Actual Dates		
		Began Construction	Completed Construction	Began Operation

**PART O: New or Modified Emissions Units (if applicable)**

Complete this section only if the source is proposing to add new emission units or modify existing emission units.

74. Emissions Unit ID	75. NEW	76. MOD	77. Type of Emissions Unit	78. Estimated Dates		
				Begin Construction	Complete Construction	Begin Operation
		X	(2)Enclosed Flares	5/15/2023	5/24/2022	6/15/2023

	<b>enter:</b>
<b>State of Operation</b>	IN
<b>Flare type</b>	Zink Trailer 1800
<b>Target flow rate for source [scfm]</b>	403.0
<b>Methane Concentration [%]</b>	100%
<b>CH4 heating value [Btu/scf]</b>	910
<b>Max Heat Release per Flare [MMBtu/hr]</b>	22.0
<b>Number of Flares Required for Target</b>	1

<i>Emission Source</i>	<i>Max Heat Release</i>		<i>Emissions Factor</i>		<i>Emissions</i>	
	<i>Per Flare</i>	<i>Total Site</i>	<i>Pollutant</i>	<i>Value</i>	<i>(lb/hr)</i>	<i>(ton/year)</i>
Zink Trailer 1800 Flares	22.0 MMBTU/hr	22.0 MMBTU/hr	CO	0.1500 lb/mmbtu	3.301	14.5
			NOx	0.1000 lb/mmbtu	2.200	9.6
			PM	17.0000 lb/mmscf	0.411	1.8
			PM10	0.0000 lb/mmscf	-	-
			SO2	0.0000 lb/mmbtu	-	-
			VOC	0.0000 lb/mmbtu	-	-
			HAPs	0.0000 lb/mmbtu	-	-

	<b>enter:</b>
<b>State of Operation</b>	IN
<b>Flare type</b>	AB-200
<b>Target flow rate for source [scfm]</b>	577.0
<b>Methane Concentration [%]</b>	100%
<b>CH4 heating value [Btu/scf]</b>	910
<b>Max Heat Release per Flare [MMBtu/hr]</b>	30.0
<b>Number of Flares Required for Target</b>	1

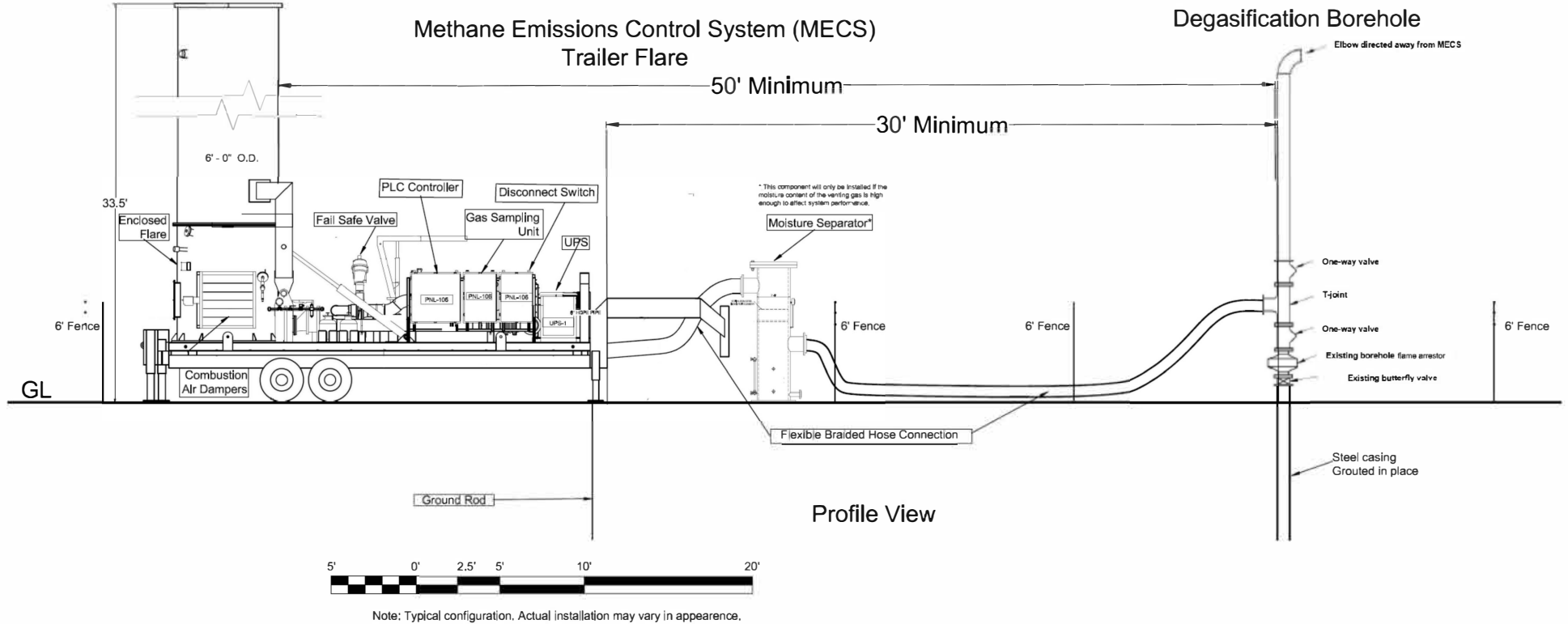
<i>Total Site Emissions</i>	
<i>Emissions</i>	
<i>(lb/hr)</i>	<i>(ton/year)</i>
6.451	28.3
4.721	20.7
0.567	2.5
0.000	0.0
-	-
-	-
-	-

CO  
NOX  
PM

<i>Emission Source</i>	<i>Max Heat Release</i>		<i>Emissions Factor</i>		<i>Emissions</i>	
	<i>Per Flare</i>	<i>Total Site</i>	<i>Pollutant</i>	<i>Value</i>	<i>(lb/hr)</i>	<i>(ton/year)</i>
AB-200 Flares	31.5 MMBTU/hr	31.5 MMBTU/hr	CO	0.1000 lb/mmbtu	3.150	13.8
			NOx	0.0800 lb/mmbtu	2.520	11.0
			PM	4.5000 lb/mmscf	0.156	0.7
			PM10	0.0000 lb/mmscf	-	-
			SO2	0.0000 lb/mmbtu	-	-
			VOC	0.0000 lb/mmbtu	-	-
			HAPs	0.0000 lb/mmbtu	-	-



System Layout Side View and Top View – Trailer MECS with Direct Connection to Borehole



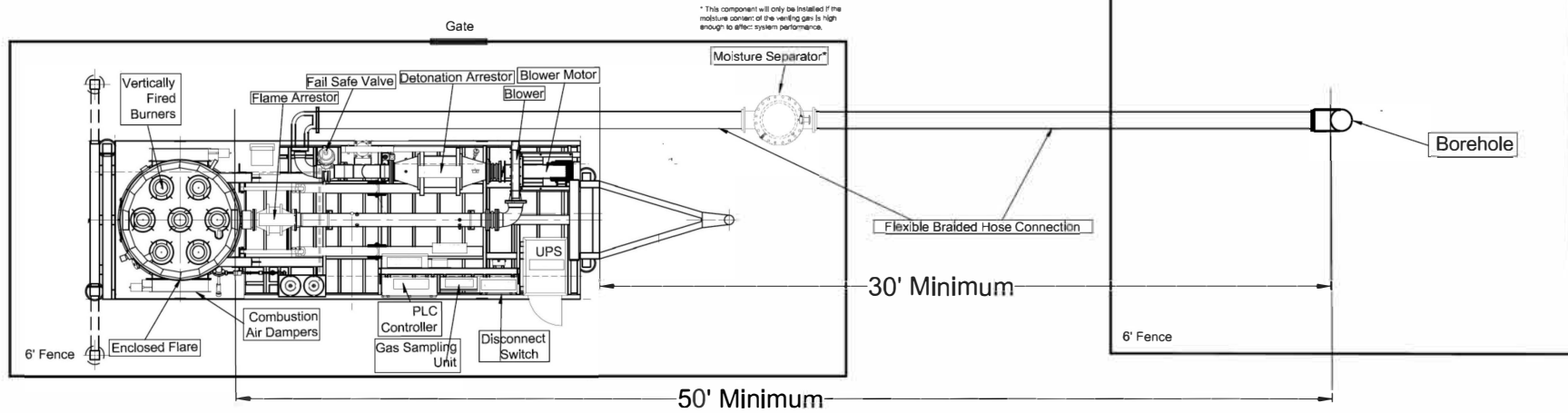
## Methane Emissions Control System (MECS) Trailer Flare

## Degasification Borehole



Note: Typical configuration. Actual installation may vary in appearance.

Plan View





To: Joe Stone  
Keyrock Energy

The AB-200 combustor is a non-temperature-controlled system. Following emissions rates are expected (not guaranteed) as stated below at 1700 Deg F and assuming a typical coal mine vent gas composition (methane and inerts, not heavier hydrocarbons):

NOx	0.08 lb/MMBtu
CO	0.1 lb/MMBtu
SOx	0 (N/A)
VOM (Non-Methane and Ethane)	0
PM	4.5 lb/MMSCF
PM 10	4 lb/MMSCF
DRE	≥99%
Tested Capacity w/5' stack extension	577 SCFM

The above emissions factors are based on gas with lower heating value of 910 BTU/scf.

Cimarron submits this letter to Keyrock under the terms of the Non Disclosure Agreement executed between Cimarron and Keyrock on September 25th, 2020, and considers this letter to be "Confidential Information" subject to the duties and obligations therein.

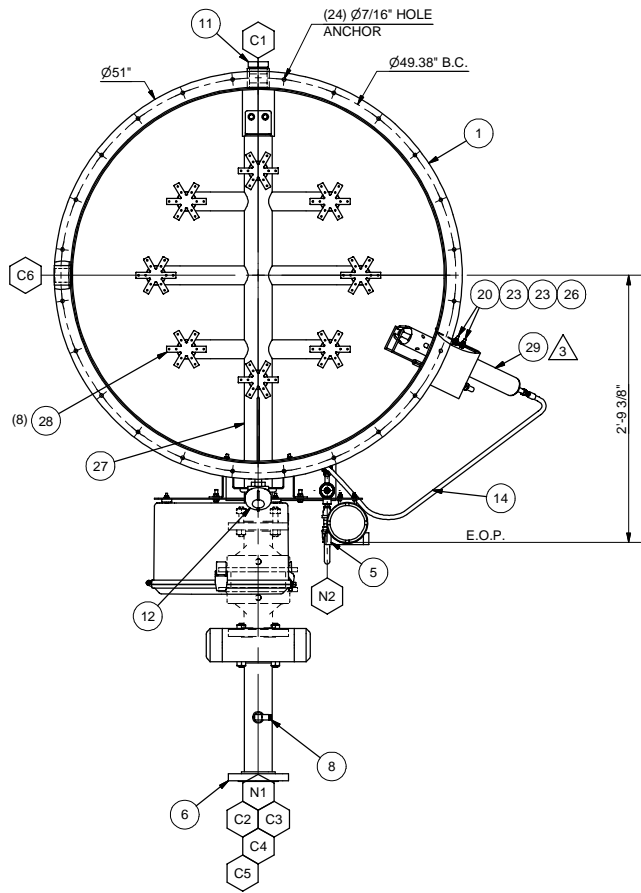
Should you have further questions, please do not hesitate to contact the undersigned.

Best Regards,

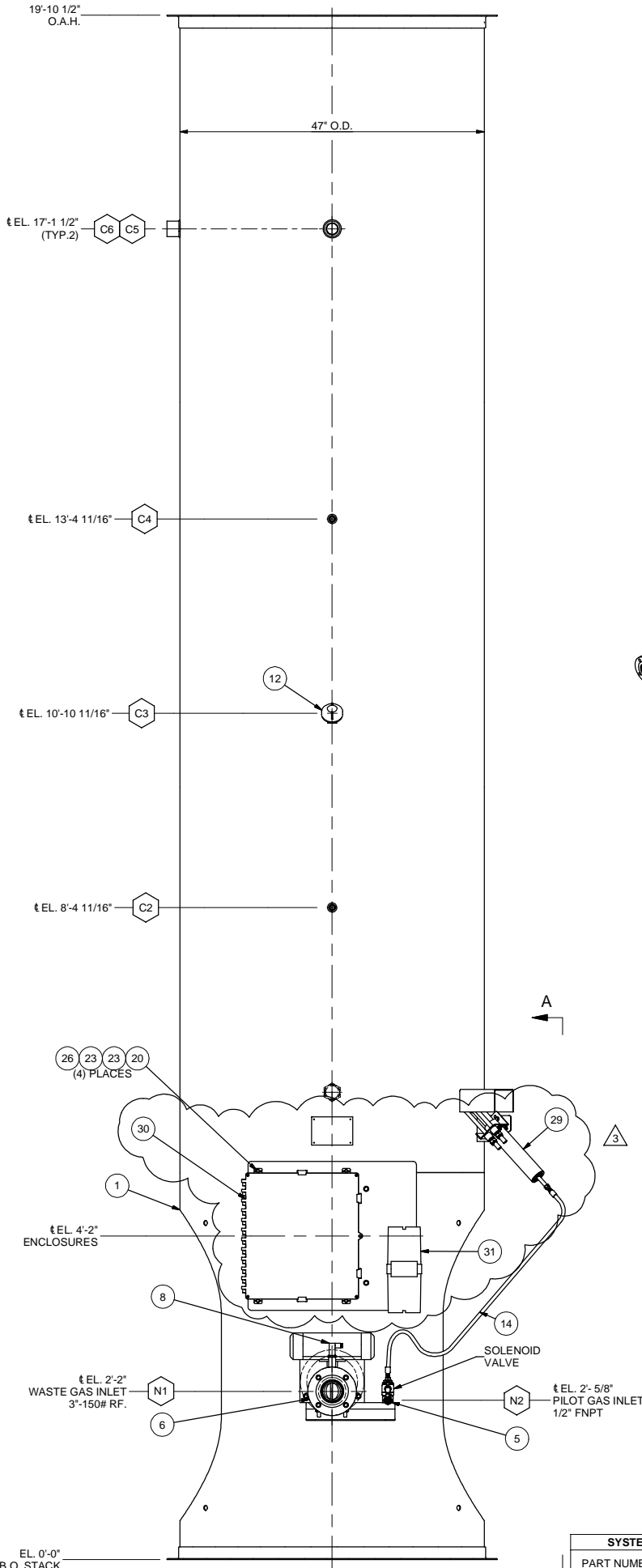
**Giorgio Sibilis**  
Cimarron | Combustion Products

(Cell) 512-247-1557  
[gsibilis@cimarron.com](mailto:gsibilis@cimarron.com)

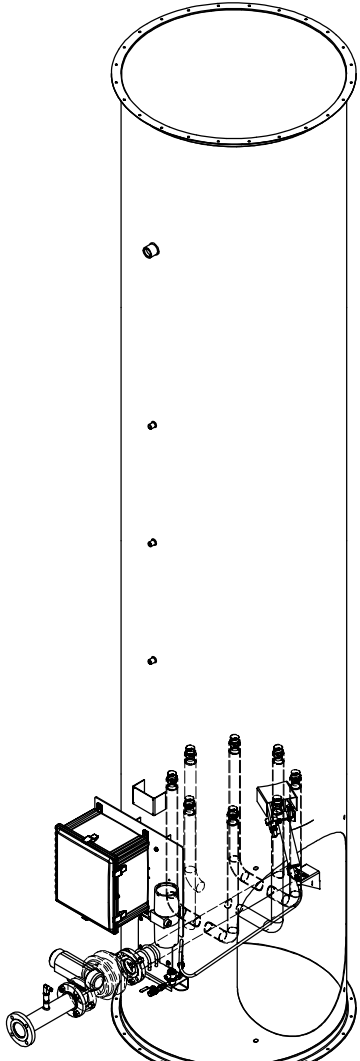




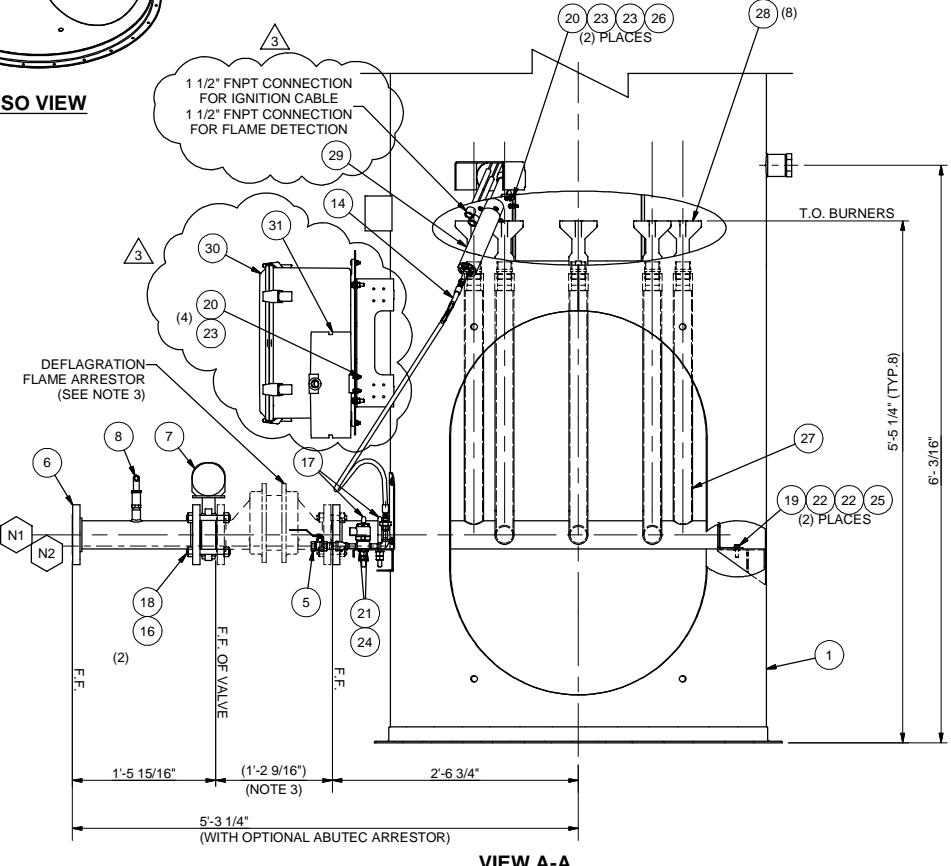
TOP VIEW



FRONT VIEW



ISO VIEW



VIEW A-A

NOZZLE SCHEDULE					
ITEM	TYPE	SERVICE	SIZE	RATING	SPEC
N1	RFSO	WASTE GAS	3"	150#	304SS
N2	FNPT	PILOT GAS	1/2"	150#	304SS
C1	FNPT	SIGHT GLASS	2"	150#	304SS
C2	FNPT	AUXILIARY	1/2"	150#	304SS
C3	FNPT	AUXILIARY	1/2"	150#	304SS
C4	FNPT	THERMOCOUPLE	1/2"	150#	304SS
C5	FNPT	AUXILIARY	1 1/2"	150#	304SS
C6	FNPT	AUXILIARY	1 1/2"	150#	304SS

BILL OF MATERIALS				
ITEM	QTY	PART NUMBER	DESCRIPTION	SPEC
1	1	AB200A200	STACK ASSEMBLY AB200	304 SS
2	-	-	(NOT USED)	-
3	-	-	(NOT USED)	-
4	-	-	(NOT USED)	-
5	1	104832	PILOT GAS TRAIN ASSEMBLY	304 SS
6	1	106767	BURNER INLET SPOOL ASSEMBLY	304 SS
7	1	108517	VALVE BUTTERFLY PNEUMATIC 3IN LP	304 SS
8	1	104281	PRESSURE TRANSMITTER 1/2IN NPT 0-50IN H2O W/ 6IN LEADS	304 SS
9	-	-	(NOT USED)	-
10	-	-	(NOT USED)	-
11	1	104528	SIGHT GLASS 2IN MNPT W/O REFLECTOR	304 SS
12	1	104280	THERMOWELL 9IN X 0.260 BORE 1/2IN MNPT STRAIGHT	304 SS
13	1	104493	IGNITION CABLE EXTERNAL 5FT PROFIRE (NOT SHOWN)	-
14	1	104356	HOSE BRAIDED 1/4IN X 48IN W/ MNPT ENDS	304 SS
15	1	104279	THERMOCOUPLE 9IN TYPE K	304 SS
16	2	104385	GASKET 3IN 150# SPIRAL WOUND CG 316L INNER X CS OUTER X GRAPHITE FILLER GREEN	304 SS
17	2	102692	U-BOLT, 3IN x 1/2IN W/ (2) FLAT WASHERS & (4) HEX NUTS	304 SS
18	4	104698	STUD BOLT, 5/8IN X 5 1/2IN W/ (2) HVY. HEX NUTS EA.	A-193-B8 A-194-8
19	2	154562	BOLT HEX CAP SCREW FULL THREAD 3/8IN-16 UNC x 1-1/4IN F593 GR 18-8	F593-18-8
20	10	154500	BOLT HEX CAP SCREW 1/4IN-20 UNC x 1IN F593 GR 18-8	F593-18-8
21	2	106996	BOLT HEX CAP SCREW FULL THREAD #10-32 UNF x 3/8IN F593 GR 18-8	F593-18-8
22	4	155415	WASHER FLAT 3/8IN NARROW F844 18-8	F844-18-8
23	16	155408	WASHER FLAT 1/4IN NARROW F844 18-8	F844-18-8
24	2	100609	WASHER FLAT #10 NARROW F844 18-8	F844-18-8
25	2	154874	NUT HEX 3/8IN-16 UNC F594 GR 18-8	F594-18-8
26	6	154866	NUT HEX 1/4IN-20 UNC F594 GR 18-8	F594-18-8
27	1	110531	SPIDER BURNER MANIFOLD ASSEMBLY	304 SS
28	8	109583	SPIDER BURNER CASTING, 1 1/2" FNPT (CK20) (NOTE 4)	CK20
29	1	112786	PILOT ASSEMBLY ACP-AB	-
30	1	SEE TABLE	MAIN CONTROL PANEL	-
31	1	113038	PILOT TRANSFORMER ENCLOSURE	-

NOTES: (UNLESS OTHERWISE SPECIFIED)

- ALL BOLT HOLES SHALL STRADDLE COMMON CENTERLINES.
- ALL NOZZLES AND COUPLINGS TO BE CAPPED OR PLUGGED PRIOR TO SHIPPING.
- DEFLAGRATION FLAME ARRESTOR REQUIRED. OPTIONAL ABUTEK ARRESTOR KIT SHOWN AS REFERENCE.
- BURNER DRILLINGS MUST BE CONFIRMED BY ENGINEERING.

SYSTEM DESIGNATION TABLE		
PART NUMBER	VOLTAGE	CONTROL PANEL
940004A	24V DC	112520
940004B	120V AC	112522

UNLESS OTHERWISE SPECIFIED ALL DIMENSIONS ARE IN INCHES. DO NOT SCALE DRAWING.

TOLERANCE:  
 OVERALL ELEVATION ±1"  
 NOZZLE ELEVATION ±1/2"  
 GYRE ELEVATION ±1"  
 FRACTIONS ±1/16"  
 DECIMALS XX ±.05  
 DECIMALS XXX ±.030  
 ANGLE SQUARENESS ±1°  
 ACROSS FACE ±1/16"  
 FLANGE ROTATION ±1/16" MAX.

PROPRIETARY INFORMATION  
 THIS DOCUMENT CONTAINS FLARE INDUSTRIES, LLC PROPRIETARY AND CONFIDENTIAL INFORMATION. IT IS LOANED FOR LIMITED PURPOSES ONLY AND REMAINS THE PROPERTY OF FLARE INDUSTRIES, LLC. IT MAY NOT BE REPRODUCED IN WHOLE OR IN PART WITHOUT THE PRIOR WRITTEN CONSENT OF FLARE INDUSTRIES, LLC. THIS DOCUMENT IS TO BE RETURNED UPON REQUEST AND IN ALL EVENTS WITH COMPLETION OF THE USE FOR WHICH IT WAS LOANED.

ABUTEK  
 AUSTIN, TEXAS

GENERAL ARRANGEMENT  
 AB-200  
 STANDARD COMBUSTION

APPROX WEIGHT/LBS  
 1,800

REV	DATE	DESCRIPTION	BY	CHK'D	APPR
3	08/02/19	REPLACED PILOT, X-FORMER, AND CONTROL PANEL	RJ	MLM	MT
2	08/01/18	REPLACED TUBES WITH BURNERS	RJ	SOP	JH
1	8/25/17	CORRECT NOZZLE SCHEDULE N2 SIZE	FPF		
0	5/5/17	ISSUED FOR CONSTRUCTION	FPF	DMR	RLW

REVISION HISTORY

CUSTOMER/LOCATION  
 ABUTEK  
 AUSTIN, TEXAS

TITLE  
 GENERAL ARRANGEMENT  
 AB-200  
 STANDARD COMBUSTION

SCALE  
 N.T.S.

PROJECT NO.  
 AB 200

SHEET  
 1 OF 1

DWG NO.  
 940004

REV LEVEL  
 3

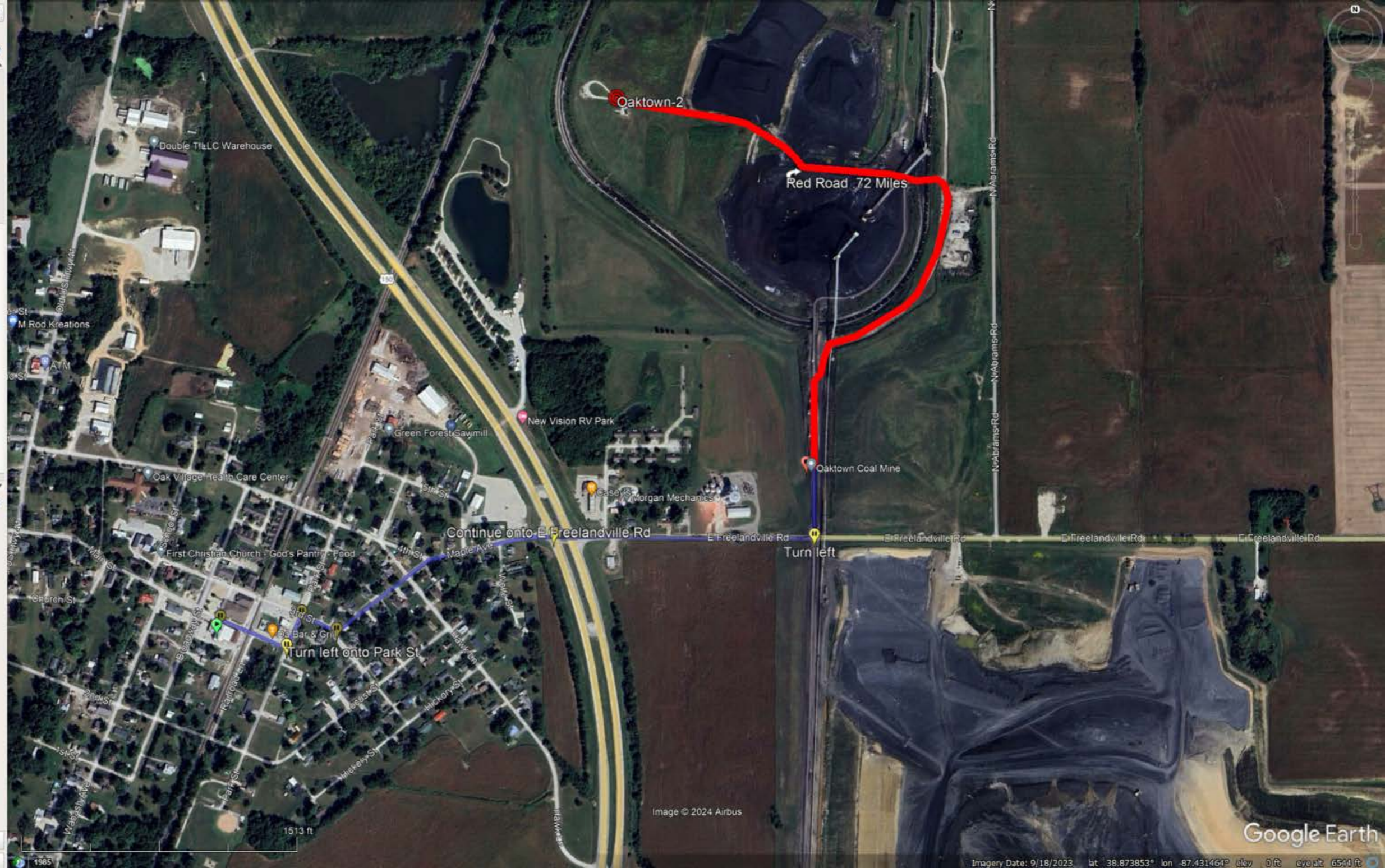
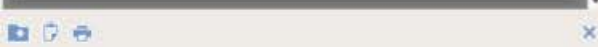




**A** United States Postal Service

1. Head **southeast** on **Main St** toward **Legion Ln**  
394 ft
2. Turn **left** onto **Park St**  
203 ft
3. Turn **right** at the 1st cross street onto **3rd St**  
213 ft
4. Turn **left** onto **Maple Ave**  
0.3 mi
5. Continue onto **E Freelandville Rd**  
0.3 mi
6. Turn **left**  
397 ft

**B** Oaktown Coal Mine



**From:** [Joe Lane](#)  
**To:** [Moulik, Pratim](#)  
**Subject:** RE: Oaktown-1 and Oaktown-2 Clerical error corrections  
**Date:** Wednesday, June 26, 2024 6:31:55 PM  
**Attachments:** [image001.png](#)  
[image002.png](#)  
[image004.png](#)  
[image005.png](#)  
[image006.png](#)  
[image007.png](#)  
[image008.png](#)  
[image009.png](#)  
[image003.png](#)  
[Oaktown 1 MOD.pdf](#)  
[Oaktown 2 MOD.pdf](#)

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\*\*\*\* This is an EXTERNAL email. Exercise caution. DO NOT open attachments or click links from unknown senders or unexpected email. \*\*\*\*

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Hello Pratim,

If you are good with these, I will get them in the mail ASAP..

Thanks

Joe Lane  
Permitting Compliance Mgr.  
304-989-5533

---

**From:** Moulik, Pratim <PMoulik@idem.IN.gov>  
**Sent:** Wednesday, June 26, 2024 8:27 AM  
**To:** Joe Lane <jlane@keyrockenergy.com>  
**Subject:** RE: Oaktown-1 and Oaktown-2 Clerical error corrections

Good Morning Joe,

The applications that you sent to IDEM via email were from last year. Since the change that needs to be made is just an address change, could you create an application with just that for both Oaktown 1 and 2. For the permits to get issued, you would have to send a hard copy of the applications to IDEM. The address you should send the application to is to IDEM – Office of Air Quality – Permits Branch. It is located on 100 N. Senate Avenue, MC 61-53 Room 1003 Indianapolis, IN 46204-2251.

With Regards,  
Pratim Moulik

Pratim Moulik  
Environmental Manager 2

(317) 234-6871 • [PMoulik@idem.IN.gov](mailto:PMoulik@idem.IN.gov)



 |  |  |  |  | [www.idem.IN.gov](http://www.idem.IN.gov)

Scan the QR code to leave your feedback.

We appreciate your input!



---

**From:** Joe Lane <[jlane@keyrockenergy.com](mailto:jlane@keyrockenergy.com)>  
**Sent:** Thursday, June 20, 2024 9:58 AM  
**To:** Moulik, Pratim <[PMoulik@idem.IN.gov](mailto:PMoulik@idem.IN.gov)>  
**Subject:** FW: Oaktown-1 and Oaktown-2 Clerical error corrections

\*\*\*\* This is an EXTERNAL email. Exercise caution. DO NOT open attachments or click links from unknown senders or unexpected email. \*\*\*\*

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**From:** Joe Lane  
**Sent:** Tuesday, June 18, 2024 11:33 PM  
**To:** IDEM Air Permit Apps <[AirPermitApps@idem.IN.gov](mailto:AirPermitApps@idem.IN.gov)>  
**Cc:** JACKSON, DWANA <[djackson@idem.in.gov](mailto:djackson@idem.in.gov)>  
**Subject:** Oaktown-1 and Oaktown-2 Clerical error corrections

Attached are two corrected modifications for previously approved Oaktown permits. Upon the modification of these permits the names were accidentally switched.

Oaktown-1 (Permit# 777-46713-05579) Should have been assigned address N Chattin Rd & N Emison Mill Rd, Oaktown, IN 47561.

Oaktown-2 (Permit# 777-46712-05580) Should have been assigned address E Freedlandville Rd & N Abrams Rd .28 MI, Oaktown, IN 47561.

Keyrock Environmental is requesting that this error be corrected in your database.

Should you have any further questions or concerns please feel free to contact me at your earliest convenience

Thanks

Joe Lane  
Permitting Compliance Mgr.  
304-989-5533



**AIR PERMIT APPLICATION COVER SHEET**  
 State Form 50639 (R4 / 1-10)  
 INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT

**IDEM – Office of Air Quality – Permits Branch**  
 100 N. Senate Avenue, MC 61-53 Room 1003  
 Indianapolis, IN 46204-2251  
 Telephone: (317) 233-0178 or  
 Toll Free: 1-800-451-6027 x30178 (within Indiana)  
 Facsimile Number: (317) 232-6749  
[www.IN.gov/idem](http://www.IN.gov/idem)

**NOTES:**

- The purpose of this cover sheet is to obtain the core information needed to process the air permit application. This cover sheet is required for all air permit applications submitted to IDEM, OAQ. Place this cover sheet on top of all subsequent forms and attachments that encompass your air permit application packet.
- Submit the completed air permit application packet, including all forms and attachments, to **IDEM Air Permits Administration** using the address in the upper right hand corner of this page.
- IDEM will send a bill to collect the filing fee and any other applicable fees.
- Detailed instructions for this form are available on the Air Permit Application Forms website.

**FOR OFFICE USE ONLY**

**PERMIT NUMBER:**

**DATE APPLICATION WAS RECEIVED:**

**1. Tax ID Number:** 26-0602410

**PART A: Purpose of Application**

Part A identifies the purpose of this air permit application. For the purposes of this form, the term "source" refers to the plant site as a whole and NOT to individual emissions units.

**2. Source / Company Name:** Oaktown 1 / Keyrock Environment LLC **3. Plant ID:** 083 \_ 00067

**4. Billing Address:** 153 Jackson Avenue

**City:** Madison **State:** WV **ZIP Code:** 25130 –

**5. Permit Level:**  Exemption  Registration  SSOA  MSOP  FESOP  TVOP  PBR

**6. Application Summary:** Check all that apply. Multiple permit numbers may be assigned as needed based on the choices selected below.

- |   |   |  |
|---|---|--|
| <input type="checkbox"/> Initial Permit   | <input type="checkbox"/> Renewal of Operating Permit        | <input type="checkbox"/> Asphalt General Permit            |
| <input type="checkbox"/> Review Request   | <input type="checkbox"/> Revocation of Operating Permit     | <input type="checkbox"/> Alternate Emission Factor Request |
| <input type="checkbox"/> Interim Approval | <input type="checkbox"/> Relocation of Portable Source      | <input type="checkbox"/> Acid Deposition (Phase II)        |
| <input type="checkbox"/> Site Closure     | <input type="checkbox"/> Emission Reduction Credit Registry |  |

Transition (between permit levels) *From:* Exemption *To:* Registration

- |  |  |   |
|--|--|---|
| <input type="checkbox"/> Administrative Amendment: | <input type="checkbox"/> Company Name Change                     | <input type="checkbox"/> Change of Responsible Official |
|  | <input type="checkbox"/> Correction to Non-Technical Information | <input type="checkbox"/> Notice Only Change             |
|  | <input type="checkbox"/> Other (specify):                        |   |

- Modification:
- |   |  |
|---|--|
| <input checked="" type="checkbox"/> New Emission Unit or Control Device | <input type="checkbox"/> Modified Emission Unit or Control Device        |
| <input type="checkbox"/> New Applicable Permit Requirement              | <input type="checkbox"/> Change to Applicability of a Permit Requirement |
| <input type="checkbox"/> Prevention of Significant Deterioration        | <input type="checkbox"/> Emission Offset                                 |
| <input type="checkbox"/> Minor Source Modification                      | <input type="checkbox"/> Significant Source Modification                 |
| <input type="checkbox"/> Minor Permit Modification                      | <input type="checkbox"/> Significant Permit Modification                 |
| <input type="checkbox"/> Other (specify):                               |  |

**7. Is this an application for an initial construction and/or operating permit for a "Greenfield" Source?**  Yes  No

**8. Is this an application for construction of a new emissions unit at an Existing Source?**  Yes  No

### PART B: Pre-Application Meeting

Part B specifies whether a meeting was held or is being requested to discuss the permit application.

9. Was a meeting held between the company and IDEM prior to submitting this application to discuss the details of the project?

No  Yes: *Date:*

10. Would you like to schedule a meeting with IDEM management and your permit writer to discuss the details of this project?

No  Yes: *Proposed Date for Meeting:*

### PART C: Confidential Business Information

Part C identifies permit applications that require special care to ensure that confidential business information is kept separate from the public file.

Claims of confidentiality must be made at the time the information is submitted to IDEM, and must follow the requirements set out in the Indiana Administrative Code (IAC). To ensure that your information remains confidential, refer to the IDEM, OAQ information regarding submittal of confidential business information. For more information on confidentiality for certain types of business information, please review IDEM's Nonrule Policy Document Air-031-NPD regarding Emission Data.

11. Is any of the information contained within this application being claimed as **Confidential Business Information**?

No  Yes

### PART D: Certification Of Truth, Accuracy, and Completeness

Part D is the official certification that the information contained within the air permit application packet is truthful, accurate, and complete. Any air permit application packet that we receive without a signed certification will be deemed incomplete and may result in denial of the permit.

For a Part 70 Operating Permit (TVOP) or a Source Specific Operating Agreement (SSOA), a "responsible official" as defined in 326 IAC 2-7-1(34) must certify the air permit application. For all other applicants, this person is an "authorized Individual" as defined in 326 IAC 2-1.1-1(1).

*I certify under penalty of law that, based on information and belief formed after reasonable inquiry, the statements and information contained in this application are true, accurate, and complete.*

Mark Allaman  
Name (typed)

Managing Director  
Title

*Mark Allaman*  
Signature

5-19-2023  
Date



**OAQ GENERAL SOURCE DATA APPLICATION**  
**GSD-01: Basic Source Level Information**  
 State Form 50640 (R5 / 1-10)  
 INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT

**IDEM – Office of Air Quality – Permits Branch**  
 100 N. Senate Avenue, MC 61-53 Room 1003  
 Indianapolis, IN 46204-2251  
 Telephone: (317) 233-0178 or  
 Toll Free: 1-800-451-6027 x30178 (within Indiana)  
 Facsimile Number: (317) 232-6749  
[www.IN.gov/idem](http://www.IN.gov/idem)

- NOTES:**
- The purpose of GSD-01 is to provide essential information about the entire source of air pollutant emissions. GSD-01 is a required form.
  - Detailed instructions for this form are available on the Air Permit Application Forms website.
  - All information submitted to IDEM will be made available to the public unless it is submitted under a claim of confidentiality. Claims of confidentiality must be made at the time the information is submitted to IDEM, and must follow the requirements set out in 326 IAC 17.1-4-1. Failure to follow these requirements exactly will result in your information becoming a public record, available for public inspection.

**PART A: Source / Company Location Information**

<b>1. Source / Company Name:</b> Oaktown 1 / Keyrock Environment LLC		<b>2. Plant ID:</b> –	
<b>3. Location Address:</b> North Chattin Road & North Emison Mill Road			
<b>City:</b> Oak Town	<b>State:</b> IN	<b>ZIP Code:</b> 47561 –	
<b>4. County Name:</b> Knox		<b>5. Township Name:</b> Busseron	
<b>6. Geographic Coordinates:</b>			
<b>Latitude:</b> 38.812410°		<b>Longitude:</b> -87.442870°	
<b>7. Universal Transferal Mercadum Coordinates (if known):</b>			
<b>Zone:</b> 16	<b>Horizontal:</b> E 461550.00	<b>Vertical:</b> N 4296053.00	
<b>8. Adjacent States:</b> Is the source located within 50 miles of an adjacent state? <input type="checkbox"/> No <input checked="" type="checkbox"/> Yes – <i>Indicate Adjacent State(s):</i> <input checked="" type="checkbox"/> Illinois (IL) <input type="checkbox"/> Michigan (MI) <input type="checkbox"/> Ohio (OH) <input type="checkbox"/> Kentucky (KY)			
<b>9. Attainment Area Designation:</b> Is the source located within a non-attainment area for any of the criteria air pollutants? <input checked="" type="checkbox"/> No <input type="checkbox"/> Yes – <i>Indicate Nonattainment Pollutant(s):</i> <input type="checkbox"/> CO <input type="checkbox"/> Pb <input type="checkbox"/> NO <sub>x</sub> <input type="checkbox"/> O <sub>3</sub> <input type="checkbox"/> PM <input type="checkbox"/> PM <sub>10</sub> <input type="checkbox"/> PM <sub>2.5</sub> <input type="checkbox"/> SO <sub>2</sub>			
<b>10. Portable / Stationary:</b> Is this a portable or stationary source? <input checked="" type="checkbox"/> Portable <input type="checkbox"/> Stationary			

**PART B: Source Summary**

<b>11. Company Internet Address (optional):</b>	
<b>12. Company Name History:</b> Has this source operated under any other name(s)? <input checked="" type="checkbox"/> No <input type="checkbox"/> Yes – <i>Provide information regarding past company names in Part I, Company Name History.</i>	
<b>13. Portable Source Location History:</b> Will the location of the portable source be changing in the near future? <input checked="" type="checkbox"/> Not Applicable <input type="checkbox"/> No <input type="checkbox"/> Yes – <i>Complete Part J, Portable Source Location History, and Part K, Request to Change Location of Portable Source.</i>	
<b>14. Existing Approvals:</b> Have any exemptions, registrations, or permits been issued to this source? <input checked="" type="checkbox"/> No <input type="checkbox"/> Yes – <i>List these permits and their corresponding emissions units in Part M, Existing Approvals.</i>	
<b>15. Unpermitted Emissions Units:</b> Does this source have any unpermitted emissions units? <input checked="" type="checkbox"/> No <input type="checkbox"/> Yes – <i>List all unpermitted emissions units in Part N, Unpermitted Emissions Units.</i>	
<b>16. New Source Review:</b> Is this source proposing to construct or modify any emissions units? <input type="checkbox"/> No <input checked="" type="checkbox"/> Yes – <i>List all proposed new construction in Part O, New or Modified Emissions Units.</i>	
<b>17. Risk Management Plan:</b> Has this source submitted a Risk Management Plan? <input checked="" type="checkbox"/> Not Required <input type="checkbox"/> No <input type="checkbox"/> Yes → Date submitted: _____ EPA Facility Identifier: – –	



**PART C: Source Contact Information**

**IDEM will send the original, signed permit decision to the person identified in this section. This person MUST be an employee of the permitted source.**

<b>18. Name of Source Contact Person:</b> Joe Lane		
<b>19. Title (optional):</b> Permitting and Regulatory Manager		
<b>20. Mailing Address:</b> 153 Jackson Avenue		
<b>City:</b> Madison	<b>State:</b> WV	<b>ZIP Code:</b> 25130 –
<b>21. Electronic Mail Address (optional):</b> jlane@keyrockenergy.com		
<b>22. Telephone Number:</b> ( 304 ) 989 – 5533	<b>23. Facsimile Number (optional):</b> ( ) –	

**PART D: Authorized Individual/Responsible Official Information**

**IDEM will send a copy of the permit decision to the person indicated in this section, if the Authorized Individual or Responsible Official is different from the Source Contact specified in Part C.**

<b>24. Name of Authorized Individual or Responsible Official:</b> Mark Allaman		
<b>25. Title:</b> Managing Director		
<b>26. Mailing Address:</b> P.O.Box 2223		
<b>City:</b> Johnson City	<b>State:</b> TN	<b>ZIP Code:</b> 37605 –
<b>27. Telephone Number:</b> ( 304 ) 573 – 9873	<b>28. Facsimile Number (optional):</b> ( ) –	
<b>29. Request to Change the Authorized Individual or Responsible Official:</b> Is the source officially requesting to change the person designated as the Authorized Individual or Responsible Official in the official documents issued by IDEM, OAQ? <i>The permit may list the title of the Authorized Individual or Responsible Official in lieu of a specific name.</i>		
<input checked="" type="checkbox"/> No <input type="checkbox"/> Yes – <b>Change Responsible Official to:</b>		

**PART E: Owner Information**

<b>30. Company Name of Owner:</b> Keyrock Environment LLC		
<b>31. Name of Owner Contact Person:</b> Bruce Horman		
<b>32. Mailing Address:</b> P.O. Box 2223		
<b>City:</b> Johnson City	<b>State:</b> TN	<b>ZIP Code:</b> 37605 –
<b>33. Telephone Number:</b> ( 618 ) 443 – 8753	<b>34. Facsimile Number (optional):</b> ( ) –	
<b>34. Operator:</b> Does the "Owner" company also operate the source to which this application applies?		
<input type="checkbox"/> No – <i>Proceed to Part F below.</i> <input checked="" type="checkbox"/> Yes – <i>Enter "SAME AS OWNER" on line 35 and proceed to Part G below.</i>		

**PART F: Operator Information**

<b>35. Company Name of Operator:</b> SAME AS OWNER		
<b>36. Name of Operator Contact Person:</b>		
<b>37. Mailing Address:</b>		
<b>City:</b>	<b>State:</b>	<b>ZIP Code:</b> –
<b>38. Telephone Number:</b> ( ) –	<b>39. Facsimile Number (optional):</b> ( ) –	

**PART G: Agent Information**

**40. Company Name of Agent:** Keyrock Environment

**41. Type of Agent:**  Environmental Consultant  Attorney  Other (specify):

**42. Name of Agent Contact Person:** Joe Lane

**43. Mailing Address:** 153 Jackson Avenue

**City:** Madison

**State:** WV

**ZIP Code:** 25130 –

**44. Electronic Mail Address (optional):** jlane@keyrockenergy.com

**45. Telephone Number:** ( 304 ) 989 – 5533

**46. Facsimile Number (optional):** ( ) –

**47. Request for Follow-up:** Does the “Agent” wish to receive a copy of the preliminary findings during the public notice period (if applicable) and a copy of the final determination?  No  Yes

**PART H: Local Library Information**

**48. Date application packet was filed with the local library:** Yes

**49. Name of Library:** Knox County Public Library

**50. Name of Librarian (optional):**

**51. Mailing Address:** 201 S Ledgerwood St, Carlisle, IN 47838

**City:** Carlisle

**State:** IN

**ZIP Code:** 47838

**52. Internet Address (optional):**

**53. Electronic Mail Address (optional):** blemonskcpl@gmail.com

**54. Telephone Number:** ( 812 ) 398 – 4480

**55. Facsimile Number (optional):** ( ) –

**PART I: Company Name History (if applicable)**

Complete this section only if the source has previously operated under a legal name that is different from the name listed above in Section A.

**56. Legal Name of Company**

**57. Dates of Use**

to

to

to

to

to

to

to

to

to

to

**58. Company Name Change Request:** Is the source officially requesting to change the legal name that will be printed on all official documents issued by IDEM, OAQ?

No  Yes – **Change Company Name to:**



**PART L: Source Process Description**

Complete this section to summarize the main processes at the source.

64. Process Description	65. Products	66. SIC Code	67. NAICS Code
Sanitary Services		4959	

**PART M: Existing Approvals (if applicable)**

Complete this section to summarize the approvals issued to the source since issuance of the main operating permit.

68. Permit ID	69. Emissions Unit IDs	70. Expiration Date

**PART N: Unpermitted Emissions Units (if applicable)**

Complete this section only if the source has emission units that are not listed in any permit issued by IDEM, OAQ.

71. Emissions Unit ID	72. Type of Emissions Unit	73. Actual Dates		
		Began Construction	Completed Construction	Began Operation

**PART O: New or Modified Emissions Units (if applicable)**

Complete this section only if the source is proposing to add new emission units or modify existing emission units.

74. Emissions Unit ID	75. NEW	76. MOD	77. Type of Emissions Unit	78. Estimated Dates		
				Begin Construction	Complete Construction	Begin Operation
		X	(1)Enclosed Flares	5/15/2023	5/24/2022	6/15/2023

	<b>enter:</b>
<b>State of Operation</b>	IN
<b>Flare type</b>	Zink Trailer 1800
<b>Target flow rate for source [scfm]</b>	403.0
<b>Methane Concentration [%]</b>	100%
<b>CH4 heating value [Btu/scf]</b>	910
<b>Max Heat Release per Flare [MMBtu/hr]</b>	22.0
<b>Number of Flares Required for Target</b>	1

<i>Emission Source</i>	<i>Max Heat Release</i>		<i>Emissions Factor</i>		<i>Emissions</i>	
	<i>Per Flare</i>	<i>Total Site</i>	<i>Pollutant</i>	<i>Value</i>	<i>(lb/hr)</i>	<i>(ton/year)</i>
Zink Trailer 1800 Flares	22.0 MMBTU/hr	22.0 MMBTU/hr	CO	0.1500 lb/mmbtu	3.301	14.5
			NOx	0.1000 lb/mmbtu	2.200	9.6
			PM	17.0000 lb/mmscf	0.411	1.8
			PM10	0.0000 lb/mmscf	-	-
			SO2	0.0000 lb/mmbtu	-	-
			VOM	0.0000 lb/mmbtu	-	-
			HAPS	0.0000 lb/mmbtu	-	-

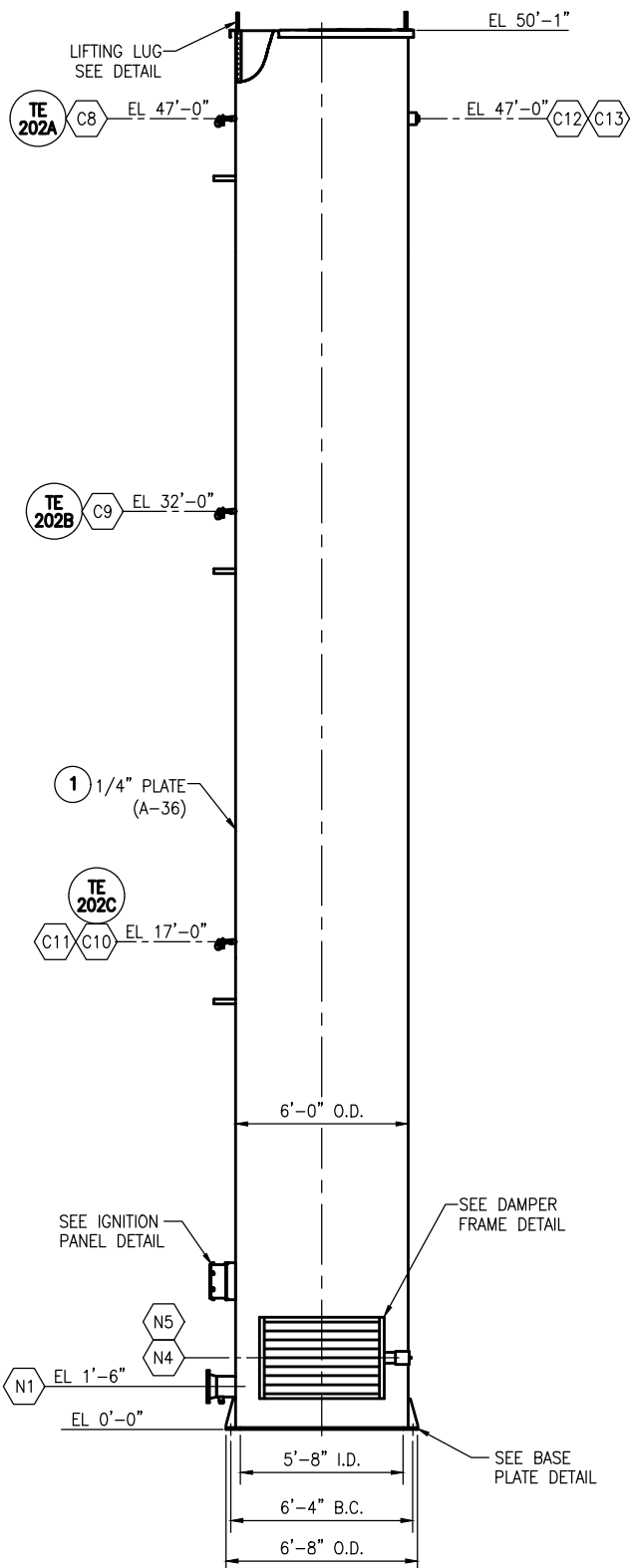
	<b>enter:</b>
<b>State of Operation</b>	IN
<b>Flare type</b>	AB-200
<b>Target flow rate for source [scfm]</b>	577.0
<b>Methane Concentration [%]</b>	100%
<b>CH4 heating value [Btu/scf]</b>	910
<b>Max Heat Release per Flare [MMBtu/hr]</b>	30.0
<b>Number of Flares Required for Target</b>	1

<i>Total Site Emissions</i>	
<i>Emissions</i>	
<i>(lb/hr)</i>	<i>(ton/year)</i>
6.451	28.3
4.721	20.7
0.567	2.5
0.000	0.0
-	-
-	-
-	-

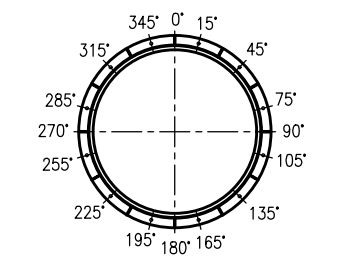
CO  
NOX  
PM

<i>Emission Source</i>	<i>Max Heat Release</i>		<i>Emissions Factor</i>		<i>Emissions</i>	
	<i>Per Flare</i>	<i>Total Site</i>	<i>Pollutant</i>	<i>Value</i>	<i>(lb/hr)</i>	<i>(ton/year)</i>
AB-200 Flares	31.5 MMBTU/hr	31.5 MMBTU/hr	CO	0.1000 lb/mmbtu	3.150	13.8
			NOx	0.0800 lb/mmbtu	2.520	11.0
			PM	4.5000 lb/mmscf	0.156	0.7
			PM10	0.0000 lb/mmscf	-	-
			SO2	0.0000 lb/mmbtu	-	-
			VOM	0.0000 lb/mmbtu	-	-
			HAPS	0.0000 lb/mmbtu	-	-

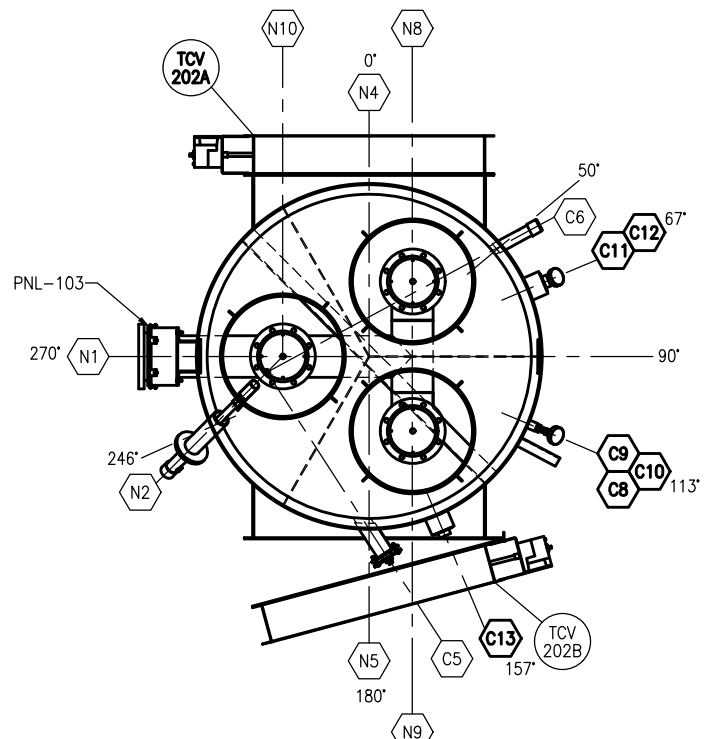




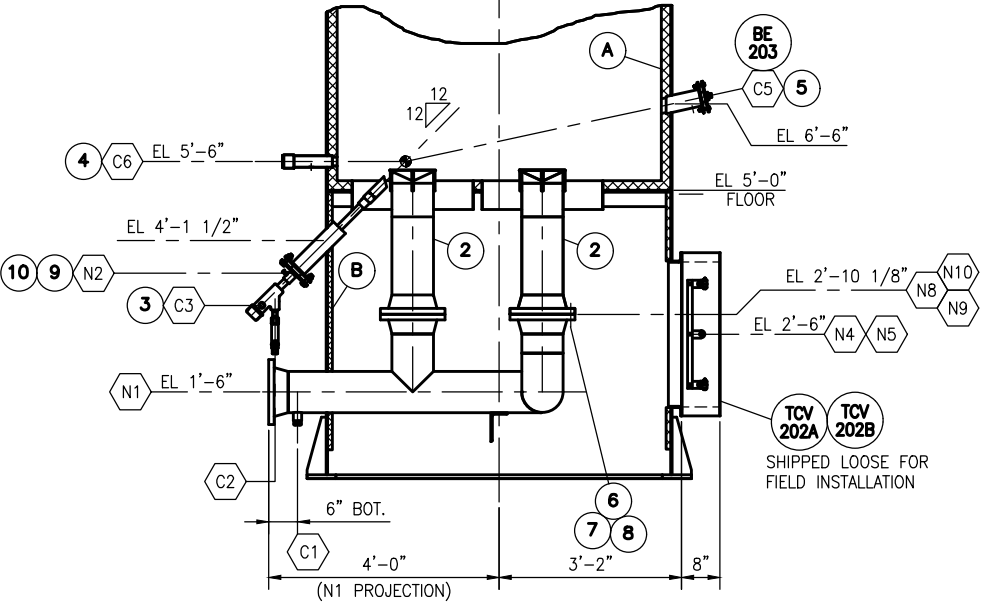
ELEVATION  
NOT TRUE ORIENTATION



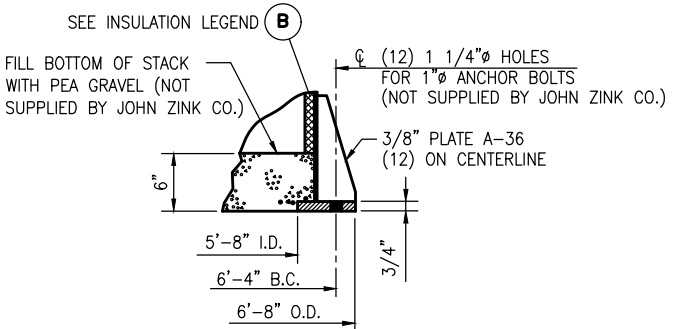
FOUNDATION BOLT PATTERN



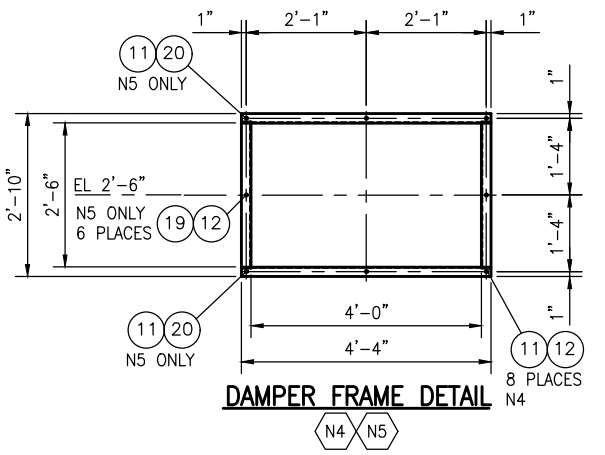
PLAN VIEW  
TRUE ORIENTATION



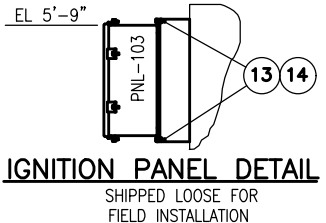
PARTIAL SECTIONAL ELEVATION  
NOT TRUE ORIENTATION



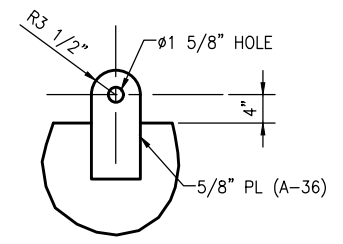
BASE PLATE DETAIL



DAMPER FRAME DETAIL



IGNITION PANEL DETAIL  
SHIPPED LOOSE FOR FIELD INSTALLATION



LIFTING LUG DETAIL  
(2 REQ'D. LOCATED AT 90° AND 270°)  
(NOTE: CUT OFF LUGS AFTER STACK ERECTION)

PARTS LIST				
ITEM	QTY	DESCRIPTION	MK: NO	MATERIAL
1	1	ENCLOSED ZTOF FLARE	D-701-1	
2	3	8" FLARE TIP	D-ST-1329-1	
3	1	PILOT ASSEMBLY	ST11915-1	
4	1	2" SIGHT PORT	CA-ST-0600-1	
5	1	SWIVEL SCANNER MOUNT ASSEMBLY	ST12431-1	
6	3	GASKET: 8" 150# RF x 1/16" THK	G8-150-R	NON-ASB
7	24	BOLT, STUD: 3/4" x 4 1/2" LG (PLATED)	SB-6-4 1/2	A-193-B7
8	48	NUT, HVY HEX: 3/4-10NC (PLATED)	SN-6	A-194-2H
9	4	BOLT, HEX HD: 5/8" x 2 1/2" LG (PLATED)	HB-5-2 1/2	A-307
10	4	NUT, REG HEX: 5/8-11NC (PLATED)	HN-5	A-307
11	10	BOLT, HEX HD: 3/8" x 1 1/4" LG (PLATED)	HB-3-1 1/4	A-307
12	16	NUT, REG HEX: 3/8-16NC (PLATED)	HN-3	A-307
13	4	BOLT, HEX HD: 1/4" x 1" LG (PLATED)	HB-2-1	A-307
14	4	NUT, REG HEX: 1/4-20NC (PLATED)	HN-2	A-307
19	6	SCREW, FLAT HD. SL: 3/8-NC x 1" LG. (PLATED)	FH-3-1	A-307
20	2	WING NUT: 3/8-16NC (PLATED)	WN-3	A-307

NOZZLE LEGEND		
MK	QTY	DESCRIPTION
N1	1	GAS CONNECTION: 8" 150# F.F.
N2	1	PILOT MTG CONN: 3/8" PLATE FLG W/ 3" 150# DRILLING
N4-5	2	DAMPER CONN - SEE DETAIL (N5 HINGED)
N8-10	3	FLARE TIP CONN - 8" 150# RF
C1	1	DRAIN - 1" FNPT WITH PLUG
C2	1	PILOT GAS CONN - 1/2" FNPT
C3	1	PILOT CONDUIT CONN - 1/2" FNPT
C5	1	SCANNER CONN - 1" MNPT
C6	1	SIGHT PORT - 2" MNPT
C8-11	4	THERMOCOUPLE CONN - 1" FNPT
C12-13	2	SAMPLE PORT 4" FNPT WITH PLUG

DESIGN DATA	
WINDLOAD (PER ASCE 7-95, EXP. C)	110 M.P.H.
SEISMIC (PER UBC-1994)	ZONE 4
SHEAR @ BASE	7.1 K
MOMENT @ BASE	186.0 K-FT
DEADLOAD	11.7 K
SHELL DESIGN TEMPERATURE	500° F
CORROSION ALLOWANCE	0.0

**LIFTING NOTES**  
 A: MAIN CRANE AT TOP REQUIRES SPREADER BAR, (NOT SUPPLIED BY JOHN ZINK CO.)  
 B: CHOKE STACK AT APPROX. 5'-0" EL WITH TAILING CRANE  
 C: LIFTING LUGS DESIGNED FOR 13 1/2 TON CROSBY ANCHOR SHACKLE AND VERTICAL SLINGS.

**INSULATION LEGEND**  
 A: (1) OVERLAPPING LAYER OF 1" THICK 8 LB DENSITY, 2300° F. BACKED WITH (1) LAYER, 1" THICK 6 LB DENSITY, 2300° F. ON INCONEL PINS AND KEEPERS.  
 B: (1) OVERLAPPING LAYER OF 1" THICK 6 LB DENSITY, 2300° F. ON INCONEL PINS AND KEEPERS.

**GENERAL NOTES**  
 1. TAG NUMBERS TO BE PRECEDED BY JOHN ZINK SALES ORDER NUMBER.  
 2. FLARE ASSEMBLY IS NOT TO BE USED AS AN ANCHOR POINT FOR CUSTOMER PIPING.  
 3. PRE-TENSION ANCHOR BOLTS BY THE "TURN OF THE NUT" METHOD/AISC.  
 4. BOLT HOLES TO STRADDLE NORMAL CENTER LINES UNLESS NOTED.  
 5. FINISH EXTERIOR CARBON STEEL, INSIDE OF SKIRT, BOTTOM OF FLOOR PLATE, AND MANIFOLD. SANDBLAST PER SSPC-SP-6 AND APPLY INORGANIC ZINC RICH PRIMER (2-4 MILS D.F.T.)

FOR PARTS AND SERVICE: • TEL: 1-800-755-4252 • FAX: (918) 234-1968						
NO.	REVISION	DESCRIPTION	BY	CHK	APP	DATE

FOR A LIST OF RELEVANT PATENTS AND TRADEMARKS, PLEASE SEE [JOHNZINKHAMWORTHY.COM/LEGAL-NOTICES](http://johnzinkhamworthy.com/legal-notices)

**JOHN ZINK HAMWORTHY COMBUSTION.**  
JOHN ZINK COMPANY, LLC

FOR: ENVIRONMENTAL COMMODITIES CORP.  
USER: OXBOW MINING

ENCLOSED ZTOF FLARE  
6'-0" O.D. x 50' H.

JOBSITE: SOMERSET, COLORADO

S.O. NO: BF-9201954  
P.O. NO: ECCW20181115  
SCALE: NOT TO SCALE

DRAWN: GFG  
DATE: 12/7/18  
DRAWING NUMBER:  
D-F-9201954-301

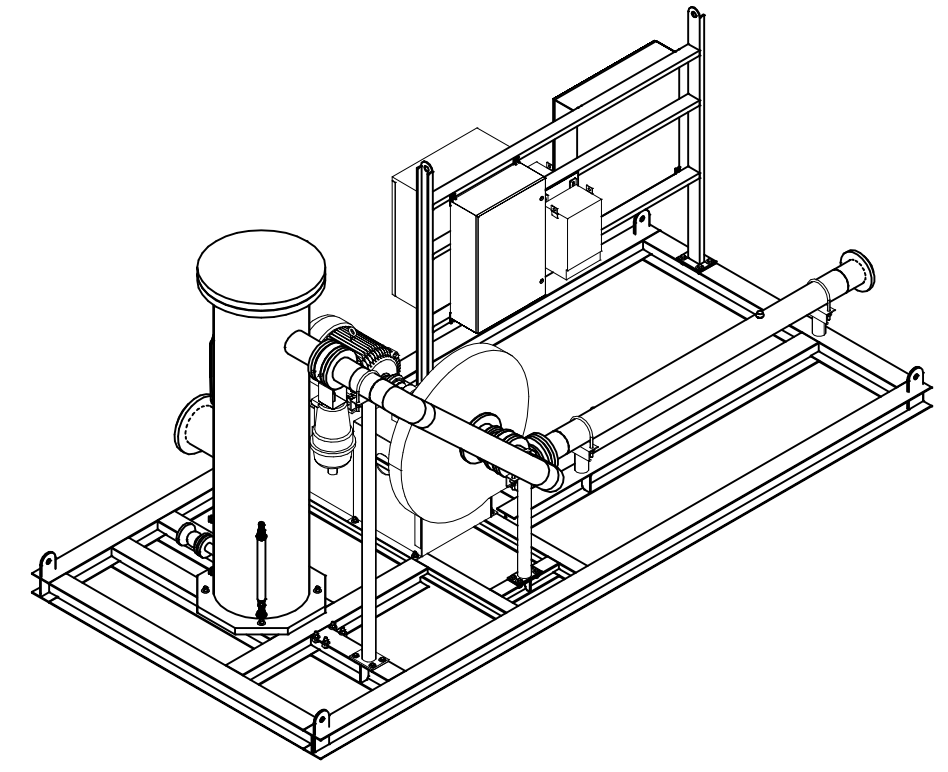
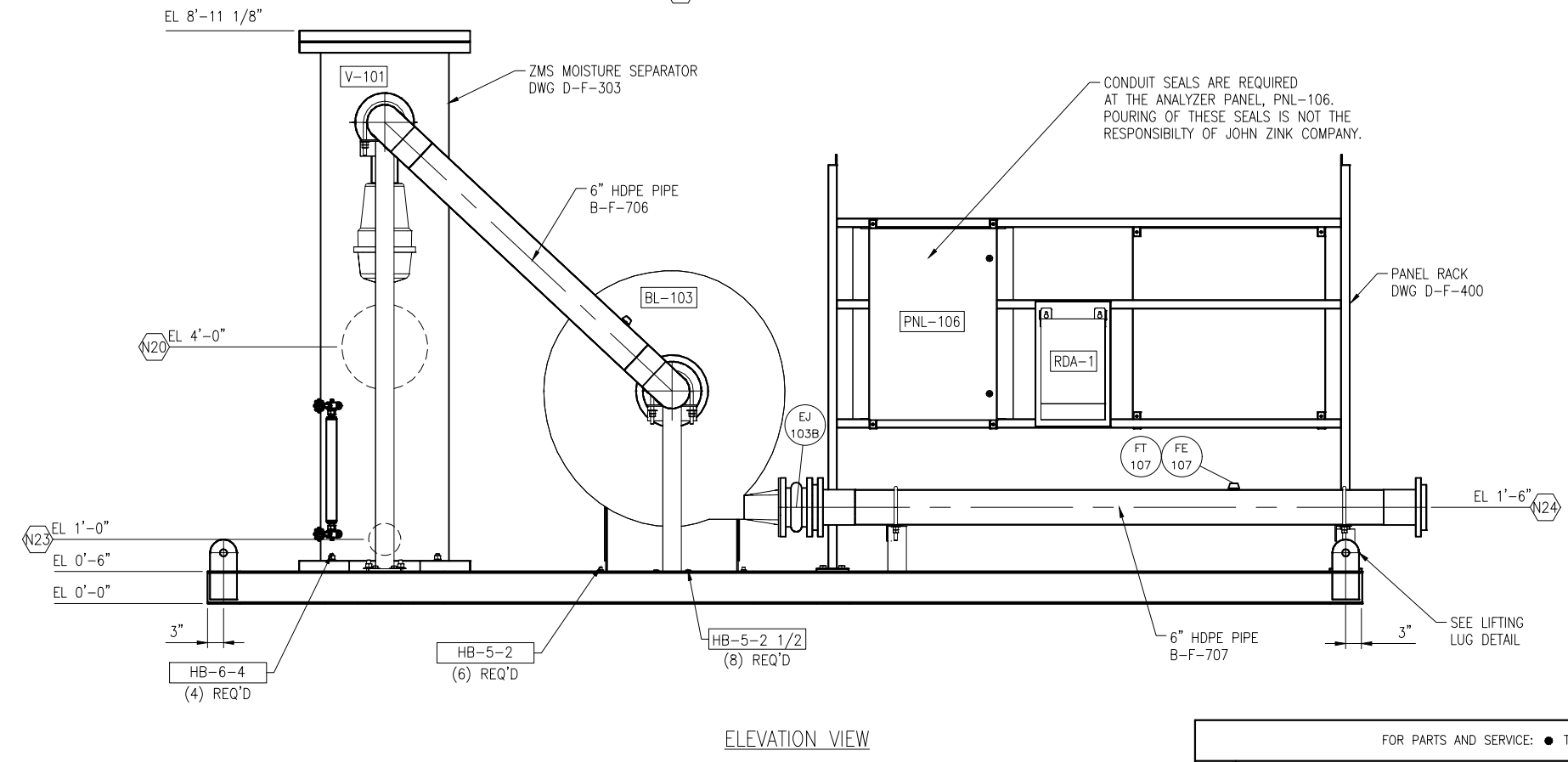
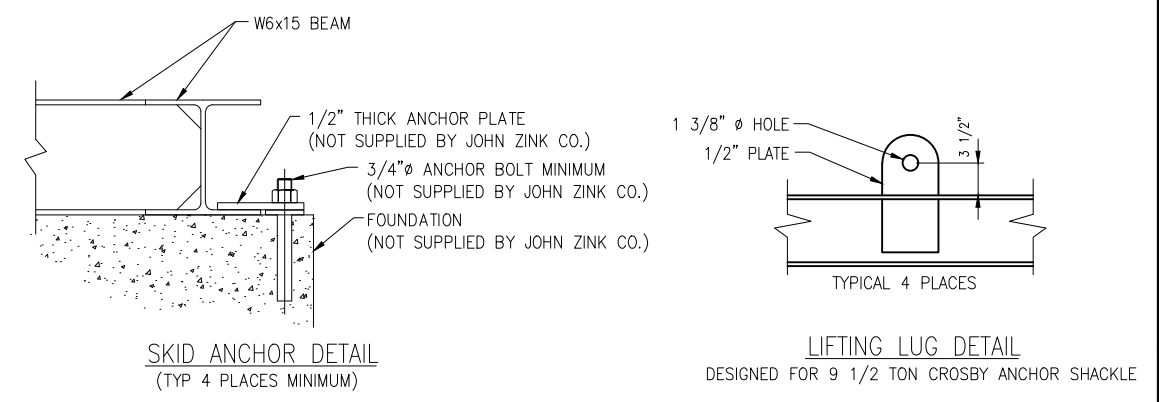
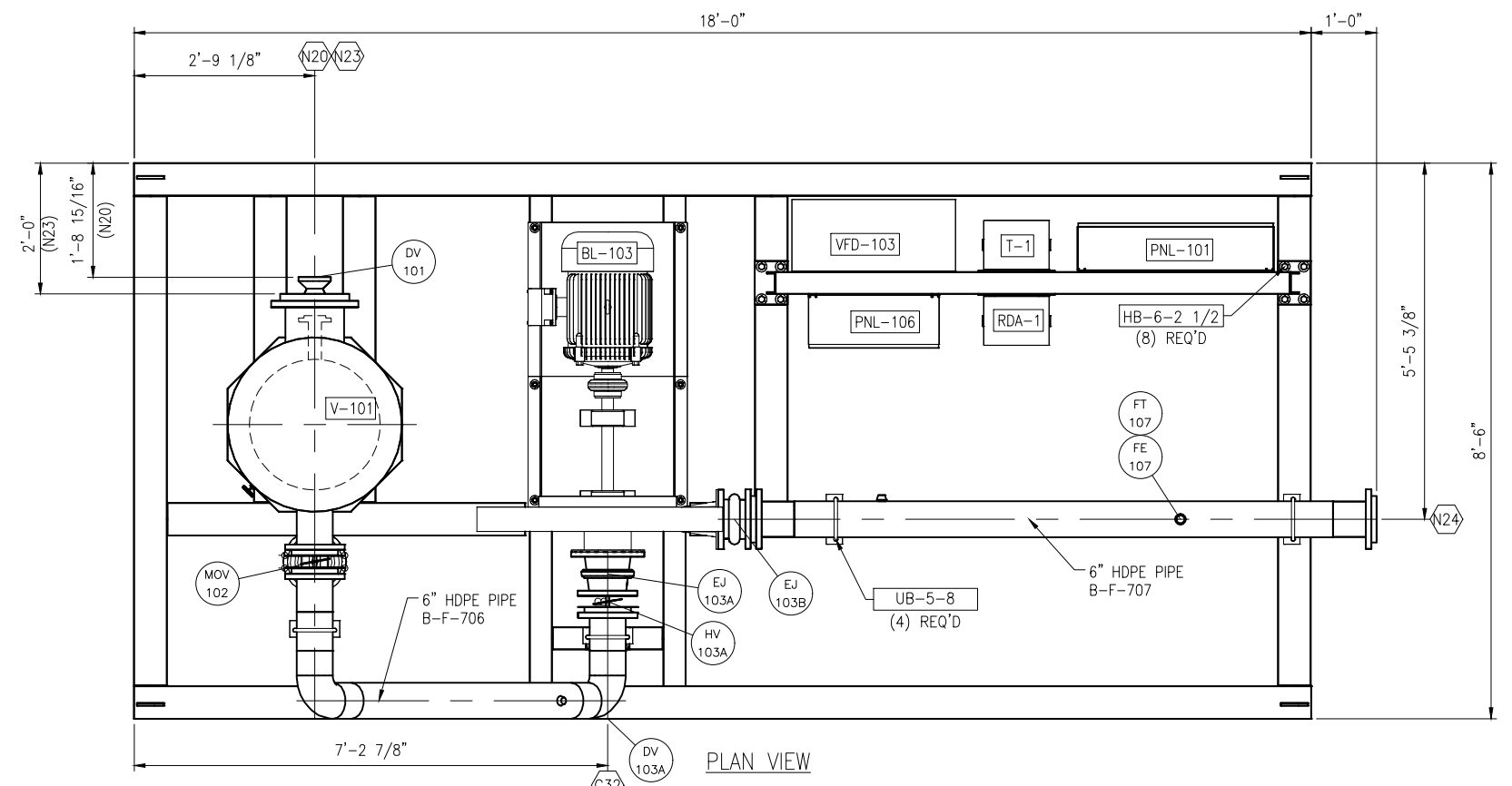
CHK: GFG  
DATE: 12/7/18

APP: JPR  
DATE: 1/10/19

SHEET: 1 OF 1

REV. 0

NOZZLE LEGEND		
MK	QTY	DESCRIPTION
N20	1	GAS INLET: 10" FLANGE ADAPTER WITH 150# BACK-UP RING
N23	1	CONDENSATE DRAIN: 2" FLANGE ADAPTER WITH 150# BACK-UP RING
N24	1	GAS OUTLET: 6" 150# RF FLANGE
C32	1	BLOWER DRAIN: 1/2" NPT



- NOTES
1. PREFIX ALL MK: NO'S WITH SALES ORDER NUMBER.
  2. WEIGHT APPROX. 5,500 LBS.
  3. JOHN ZINK RECOMMENDS THAT A SPREADER BAR BE USED TO LIFT SKID
  4. SKID DESIGN AND CONSTRUCTION IS IN ACCORDANCE WITH STRUCTURAL REQUIREMENTS FOR SEISMIC ZONE 4.
  5. ELECTRICAL AREA CLASSIFICATION NON HAZARDOUS.
  6. SKID, AND PIPE SUPPORTS GALVANIZED PER ASTM A-123.

FOR PARTS AND SERVICE: • TEL: 1-800-755-4252 • FAX: (918) 234-1968						
NO.	REVISION	DESCRIPTION	BY	CHK	APP	DATE

For a list of relevant patents and trademarks, please see [johnzinkhamworthy.com/legal-notices](http://johnzinkhamworthy.com/legal-notices)

**JOHN ZINK HAMWORTHY**  
COMBUSTION.  
JOHN ZINK COMPANY, LLC

FOR: ENVIRONMENTAL COMMODITIES CORP.	BLOWER SKID ASSEMBLY		
USER: OXBOW MINING			
JOB SITE: SOMERSET, COLORADO			
S.O. NO: BF-9201954	DRAWN: MR	CHK: GFG	APP: JPR
P.O. NO: ECCW20181115	DATE: 12/12/18	DATE: 12/12/18	DATE: 1/10/19
SCALE: NOT TO SCALE	DRAWING NUMBER: D-F-9201954-304		SHEET: 1 OF 1
			REV. 0

File Name: c:\active\p-repor\9201954\drafting\drawings\304s1r0.dwg Plot Date: 1/10/2019 3:53 PM





To: Joe Stone  
Keyrock Energy

The AB-200 combustor is a non-temperature-controlled system. Following emissions rates are expected (not guaranteed) as stated below at 1700 Deg F and assuming a typical coal mine vent gas composition (methane and inerts, not heavier hydrocarbons):

NOx	0.08 lb/MMBtu
CO	0.1 lb/MMBtu
SOx	0 (N/A)
VOM (Non-Methane and Ethane)	0
PM	4.5 lb/MMSCF
PM 10	4 lb/MMSCF
DRE	≥99%
Tested Capacity w/5' stack extension	577 SCFM

The above emissions factors are based on gas with lower heating value of 910 BTU/scf.

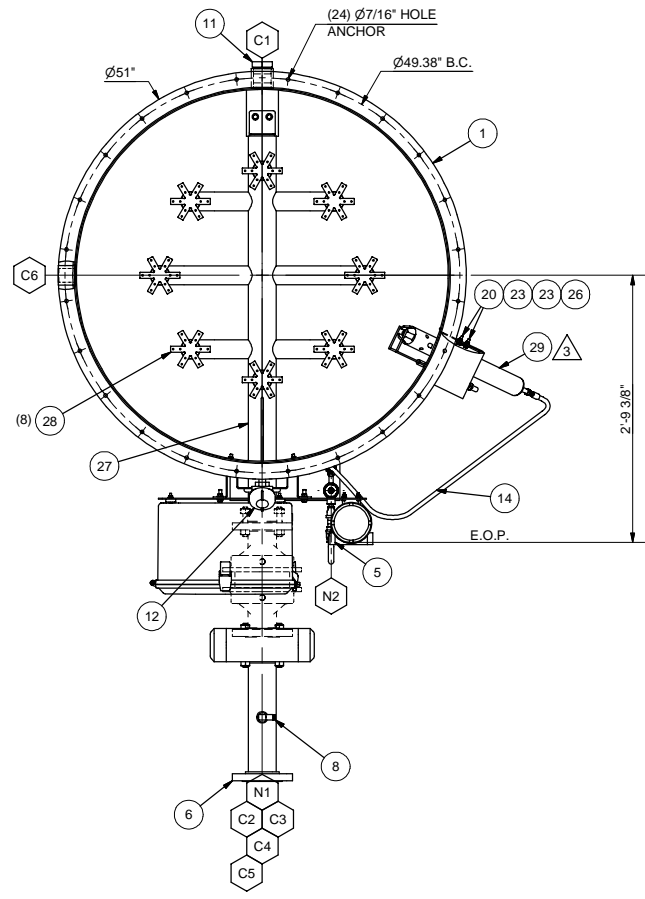
Cimarron submits this letter to Keyrock under the terms of the Non Disclosure Agreement executed between Cimarron and Keyrock on September 25th, 2020, and considers this letter to be "Confidential Information" subject to the duties and obligations therein.

Should you have further questions, please do not hesitate to contact the undersigned.

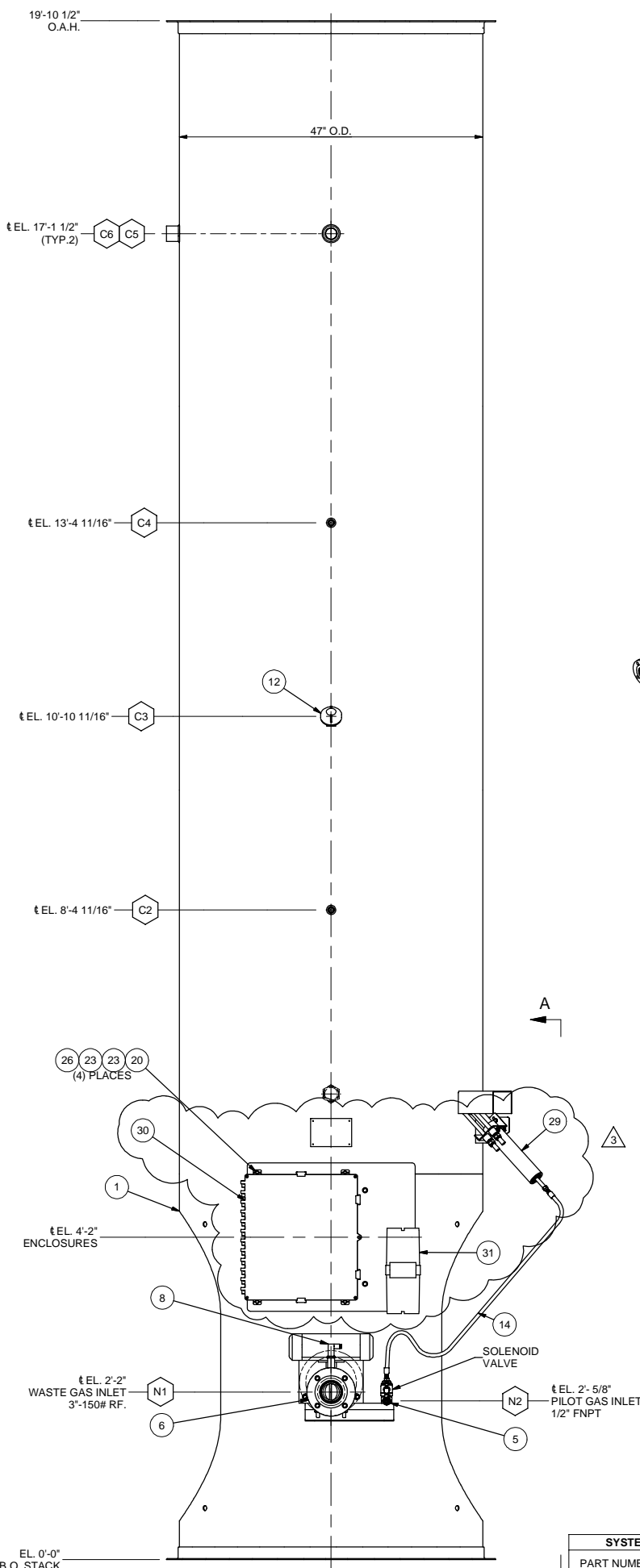
Best Regards,

**Giorgio Sibilias**  
Cimarron | Combustion Products

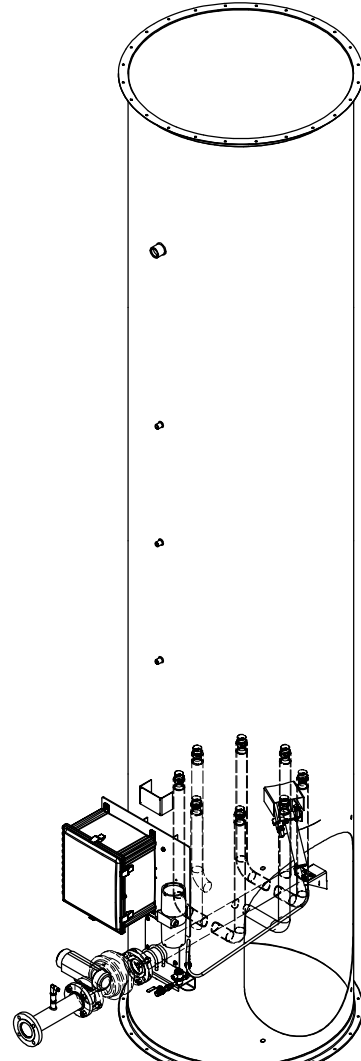
(Cell) 512-247-1557  
[gsibilias@cimarron.com](mailto:gsibilias@cimarron.com)



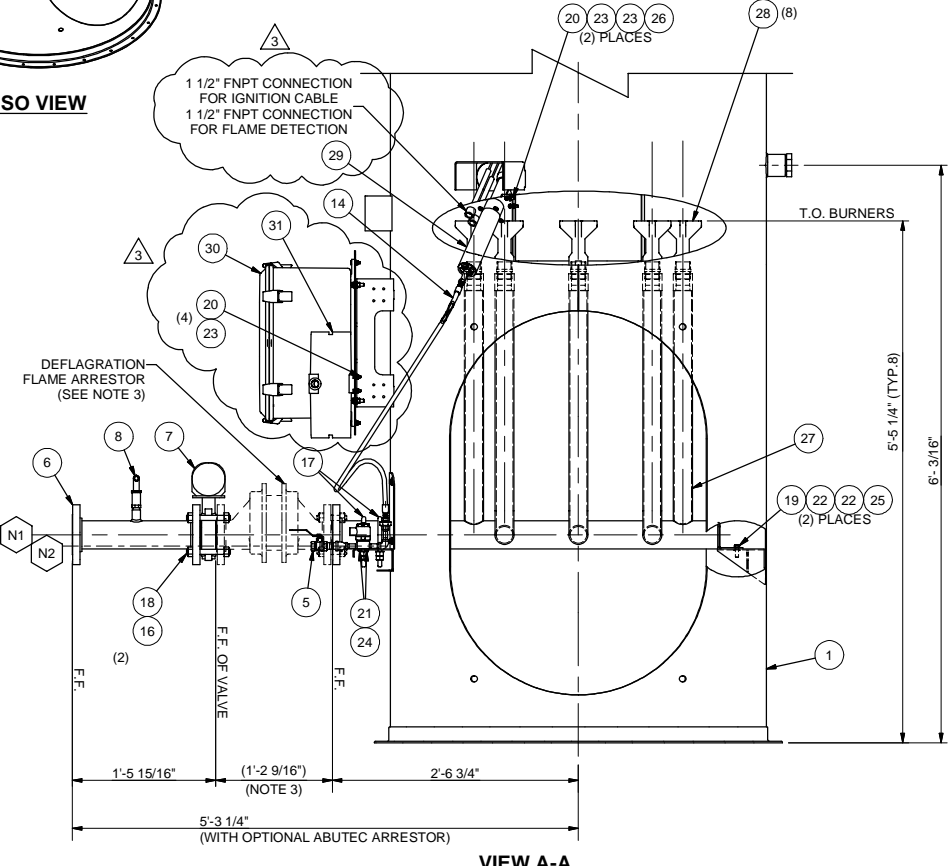
**TOP VIEW**



**FRONT VIEW**



**ISO VIEW**



**VIEW A-A**

NOZZLE SCHEDULE					
ITEM	TYPE	SERVICE	SIZE	RATING	SPEC
N1	RFSO	WASTE GAS	3"	150#	304SS
N2	FNPT	PILOT GAS	1/2"	150#	304SS
C1	FNPT	SIGHT GLASS	2"	150#	304SS
C2	FNPT	AUXILIARY	1/2"	150#	304SS
C3	FNPT	AUXILIARY	1/2"	150#	304SS
C4	FNPT	THERMOCOUPLE	1/2"	150#	304SS
C5	FNPT	AUXILIARY	1 1/2"	150#	304SS
C6	FNPT	AUXILIARY	1 1/2"	150#	304SS

BILL OF MATERIALS				
ITEM	QTY	PART NUMBER	DESCRIPTION	SPEC
1	1	AB200A200	STACK ASSEMBLY AB200	304 SS
2	-	-	(NOT USED)	-
3	-	-	(NOT USED)	-
4	-	-	(NOT USED)	-
5	1	104832	PILOT GAS TRAIN ASSEMBLY	304 SS
6	1	106767	BURNER INLET SPOOL ASSEMBLY	304 SS
7	1	108517	VALVE BUTTERFLY PNEUMATIC 3IN LP	304 SS
8	1	104281	PRESSURE TRANSMITTER 1/2IN NPT 0-50IN H2O W/ 6IN LEADS	304 SS
9	-	-	(NOT USED)	-
10	-	-	(NOT USED)	-
11	1	104528	SIGHT GLASS 2IN MNPT W/O REFLECTOR	304 SS
12	1	104280	THERMOWELL 9IN X 0.260 BORE 1/2IN MNPT STRAIGHT	304 SS
13	1	104493	IGNITION CABLE EXTERNAL 5FT PROFIRE (NOT SHOWN)	
14	1	104356	HOSE BRAIDED 1/4IN X 48IN W/ MNPT ENDS	304 SS
15	1	104279	THERMOCOUPLE 9IN TYPE K	304 SS
16	2	104385	GASKET 3IN 150# SPIRAL WOUND CG 316L INNER X CS OUTER X GRAPHITE FILLER GREEN	304 SS
17	2	102692	U-BOLT, 3IN x 1/2IN W/ (2) FLAT WASHERS & (4) HEX NUTS	304 SS
18	4	104698	STUD BOLT, 5/8IN X 5 1/2IN W/ (2) HVY. HEX NUTS EA.	A-193-B8 A-194-8
19	2	154562	BOLT HEX CAP SCREW FULL THREAD 3/8IN-16 UNC x 1-1/4IN F593 GR 18-8	F593-18-8
20	10	154500	BOLT HEX CAP SCREW 1/4IN-20 UNC x 1IN F593 GR 18-8	F593-18-8
21	2	106996	BOLT HEX CAP SCREW FULL THREAD #10-32 UNF x 3/8IN F593 GR 18-8	F593-18-8
22	4	155415	WASHER FLAT 3/8IN NARROW F844 18-8	F844-18-8
23	16	155408	WASHER FLAT 1/4IN NARROW F844 18-8	F844-18-8
24	2	100609	WASHER FLAT #10 NARROW F844 18-8	F844-18-8
25	2	154874	NUT HEX 3/8IN-16 UNC F594 GR 18-8	F594-18-8
26	6	154866	NUT HEX 1/4IN-20 UNC F594 GR 18-8	F594-18-8
27	1	110531	SPIDER BURNER MANIFOLD ASSEMBLY	304 SS
28	8	109583	SPIDER BURNER CASTING, 1 1/2" FNPT (CK20) (NOTE 4)	CK20
29	1	112786	PILOT ASSEMBLY ACP-AB	
30	1	SEE TABLE	MAIN CONTROL PANEL	
31	1	113038	PILOT TRANSFORMER ENCLOSURE	

**NOTES: (UNLESS OTHERWISE SPECIFIED)**

1. ALL BOLT HOLES SHALL STRADDLE COMMON CENTERLINES.
2. ALL NOZZLES AND COUPLINGS TO BE CAPPED OR PLUGGED PRIOR TO SHIPPING.
3. DEFLAGRATION FLAME ARRESTOR REQUIRED. OPTIONAL ABUTEC ARRESTOR KIT SHOWN AS REFERENCE.
4. BURNER DRILLINGS MUST BE CONFIRMED BY ENGINEERING.

SYSTEM DESIGNATION TABLE		
PART NUMBER	VOLTAGE	CONTROL PANEL
940004A	24V DC	112520
940004B	120V AC	112522

UNLESS OTHERWISE SPECIFIED  
ALL DIMENSIONS ARE IN INCHES.  
DO NOT SCALE DRAWING

TOLERANCE  
OVERALL ELEVATION ±1"  
NOZZLE ELEVATION ±1/2"  
GUYWIRE ELEVATION ±1"  
FRACTIONS ±1/16"  
DECIMALS .XX ±.05  
DECIMALS .XXX ±.030  
ANGLE SQUARENESS ±1°  
ACROSS FACE ±1/16"  
FLANGE ROTATION ±1/16" MAX.

THIRD ANGLE PROJECTION

PROPRIETARY INFORMATION  
THIS DOCUMENT CONTAINS FLARE INDUSTRIES, LLC PROPRIETARY AND CONFIDENTIAL INFORMATION. IT IS LOANED FOR LIMITED PURPOSES ONLY AND REMAINS THE PROPERTY OF FLARE INDUSTRIES, LLC. IT MAY NOT BE REPRODUCED IN WHOLE OR IN PART WITHOUT THE PRIOR WRITTEN CONSENT OF FLARE INDUSTRIES, LLC. THIS DOCUMENT IS TO BE RETURNED UPON REQUEST AND IN ALL EVENTS WITH COMPLETION OF THE USE FOR WHICH IT WAS LOANED.

QTY SHIP ORDER APPROX WEIGHT/LBS 1,800

REV	DATE	DESCRIPTION	BY	CHK'D	APPR
3	08/02/19	REPLACED PILOT, X-FORMER, AND CONTROL PANEL	RJ	MLM	MT
2	08/01/18	REPLACED TUBES WITH BURNERS	RJ	SOP	JH
1	8/25/17	CORRECT NOZZLE SCHEDULE N2 SIZE	FPF		
0	5/5/17	ISSUED FOR CONSTRUCTION	FPF	DMR	RLW

CUSTOMER/LOCATION  
**ABUTEC**  
AUSTIN, TEXAS

TITLE  
**GENERAL ARRANGEMENT**  
AB-200  
STANDARD COMBUSTION

**AEREON**  
FLARE JORDAN  
FLARE INDUSTRIES, LLC  
CREATING A CLEANER PLANET

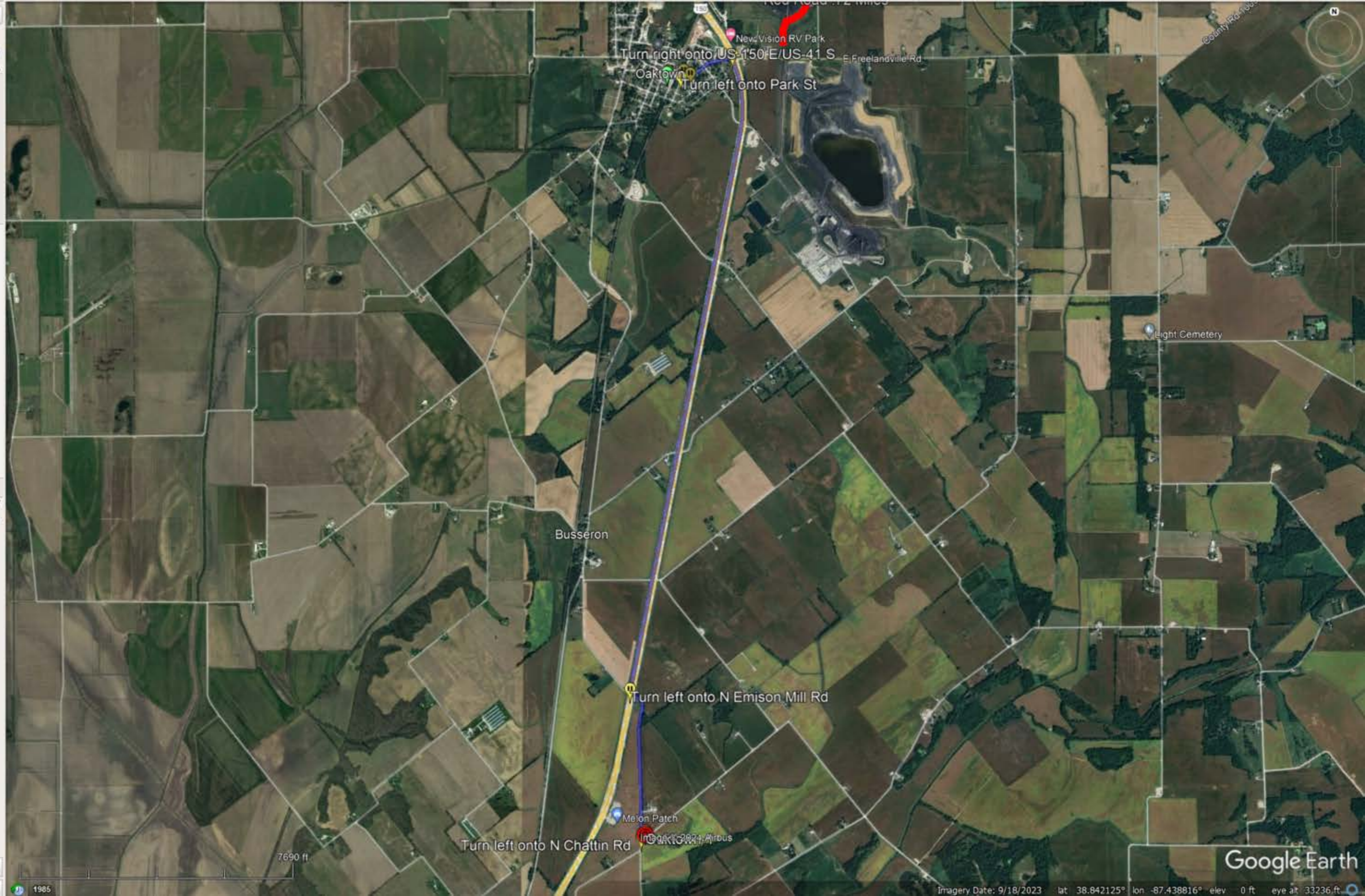
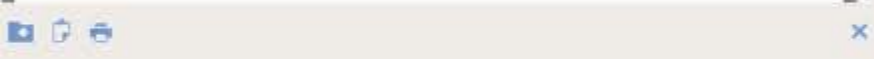
SCALE: N.T.S. PROJECT NO: AB 200  
SHEET: 1 OF 1 DWG NO: 940004 REV LEVEL: 3



**A** United States Postal Service

1. Head **southeast** on **Main St** toward **Legion Ln**  
394 ft
2. Turn **left** onto **Park St**  
203 ft
3. Turn **right** at the 1st cross street onto **3rd St**  
213 ft
4. Turn **left** onto **Maple Ave**  
0.3 mi
5. Turn **right** onto **US-150 E/US-41 S**  
3.4 mi
6. Turn **left** onto **N Emison Mill Rd**  
0.8 mi
7. Turn **left** onto **N Chattin Rd**  
200 ft

**B** 9044-9130 N Chattin Rd

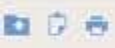




**A** United States Postal Service

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0.8 mi
- 7. Turn **left** onto **N Chattin Rd**  
200 ft

**B** 9044-9130 N Chattin Rd



Turn left onto N Chattin Rd

Oaktown-1

N Emison Mill Rd

N Emison Mill Rd

N Chattin Rd

N Chattin Rd

N Chattin Rd



**AIR PERMIT APPLICATION COVER SHEET**  
 State Form 50639 (R4 / 1-10)  
 INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT

**IDEM – Office of Air Quality – Permits Branch**  
 100 N. Senate Avenue, MC 61-53 Room 1003  
 Indianapolis, IN 46204-2251  
 Telephone: (317) 233-0178 or  
 Toll Free: 1-800-451-6027 x30178 (within Indiana)  
 Facsimile Number: (317) 232-6749  
[www.IN.gov/idem](http://www.IN.gov/idem)

**NOTES:**

- The purpose of this cover sheet is to obtain the core information needed to process the air permit application. This cover sheet is required for all air permit applications submitted to IDEM, OAQ. Place this cover sheet on top of all subsequent forms and attachments that encompass your air permit application packet.
- Submit the completed air permit application packet, including all forms and attachments, to **IDEM Air Permits Administration** using the address in the upper right hand corner of this page.
- IDEM will send a bill to collect the filing fee and any other applicable fees.
- Detailed instructions for this form are available on the Air Permit Application Forms website.

FOR OFFICE USE ONLY
<b>PERMIT NUMBER:</b>
<b>DATE APPLICATION WAS RECEIVED:</b>

**1. Tax ID Number: 26-0602410**

**PART A: Purpose of Application**

Part A identifies the purpose of this air permit application. For the purposes of this form, the term "source" refers to the plant site as a whole and NOT to individual emissions units.

**2. Source / Company Name:** Oaktown 2 / Keyrock Environment LLC **3. Plant ID:** 083 \_ 00066

**4. Billing Address:** 153 Jackson Avenue

**City:** Madison **State:** WV **ZIP Code:** 25130 –

**5. Permit Level:**  Exemption  Registration  SSOA  MSOP  FESOP  TVOP  PBR

**6. Application Summary:** Check all that apply. Multiple permit numbers may be assigned as needed based on the choices selected below.

- |   |   |  |
|---|---|--|
| <input type="checkbox"/> Initial Permit   | <input type="checkbox"/> Renewal of Operating Permit        | <input type="checkbox"/> Asphalt General Permit            |
| <input type="checkbox"/> Review Request   | <input type="checkbox"/> Revocation of Operating Permit     | <input type="checkbox"/> Alternate Emission Factor Request |
| <input type="checkbox"/> Interim Approval | <input type="checkbox"/> Relocation of Portable Source      | <input type="checkbox"/> Acid Deposition (Phase II)        |
| <input type="checkbox"/> Site Closure     | <input type="checkbox"/> Emission Reduction Credit Registry |  |

Transition (between permit levels) *From:* Exemption *To:* Registration

- |  |  |   |
|--|--|---|
| <input type="checkbox"/> Administrative Amendment: | <input type="checkbox"/> Company Name Change                     | <input type="checkbox"/> Change of Responsible Official |
|  | <input type="checkbox"/> Correction to Non-Technical Information | <input type="checkbox"/> Notice Only Change             |
|  | <input type="checkbox"/> Other (specify):                        |   |

- Modification:
- |   |  |  |
|---|--|--|
| <input checked="" type="checkbox"/> New Emission Unit or Control Device | <input type="checkbox"/> Modified Emission Unit or Control Device        |  |
| <input type="checkbox"/> New Applicable Permit Requirement              | <input type="checkbox"/> Change to Applicability of a Permit Requirement |  |
| <input type="checkbox"/> Prevention of Significant Deterioration        | <input type="checkbox"/> Emission Offset                                 | <input type="checkbox"/> MACT Preconstruction Review |
| <input type="checkbox"/> Minor Source Modification                      | <input type="checkbox"/> Significant Source Modification                 |  |
| <input type="checkbox"/> Minor Permit Modification                      | <input type="checkbox"/> Significant Permit Modification                 |  |
| <input type="checkbox"/> Other (specify):                               |  |  |

**7. Is this an application for an initial construction and/or operating permit for a "Greenfield" Source?**  Yes  No

**8. Is this an application for construction of a new emissions unit at an Existing Source?**  Yes  No

### PART B: Pre-Application Meeting

Part B specifies whether a meeting was held or is being requested to discuss the permit application.

9. Was a meeting held between the company and IDEM prior to submitting this application to discuss the details of the project?

No       Yes:    *Date:*

10. Would you like to schedule a meeting with IDEM management and your permit writer to discuss the details of this project?

No       Yes:    *Proposed Date for Meeting:*

### PART C: Confidential Business Information

Part C identifies permit applications that require special care to ensure that confidential business information is kept separate from the public file.

Claims of confidentiality must be made at the time the information is submitted to IDEM, and must follow the requirements set out in the Indiana Administrative Code (IAC). To ensure that your information remains confidential, refer to the IDEM, OAQ information regarding submittal of confidential business information. For more information on confidentiality for certain types of business information, please review IDEM's Nonrule Policy Document Air-031-NPD regarding Emission Data.

11. Is any of the information contained within this application being claimed as **Confidential Business Information**?

No       Yes

### PART D: Certification Of Truth, Accuracy, and Completeness

Part D is the official certification that the information contained within the air permit application packet is truthful, accurate, and complete. Any air permit application packet that we receive without a signed certification will be deemed incomplete and may result in denial of the permit.

For a Part 70 Operating Permit (TVOP) or a Source Specific Operating Agreement (SSOA), a "responsible official" as defined in 326 IAC 2-7-1(34) must certify the air permit application. For all other applicants, this person is an "authorized Individual" as defined in 326 IAC 2-1.1-1(1).

*I certify under penalty of law that, based on information and belief formed after reasonable inquiry, the statements and information contained in this application are true, accurate, and complete.*

Mark Allaman  
Name (typed)

Managing Director  
Title

*Mark Allaman*  
Signature

5-19-2023  
Date

**OAQ GENERAL SOURCE DATA APPLICATION****GSD-01: Basic Source Level Information**

State Form 50640 (R5 / 1-10)

**INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT**

**IDEM – Office of Air Quality – Permits Branch**  
 100 N. Senate Avenue, MC 61-53 Room 1003  
 Indianapolis, IN 46204-2251  
 Telephone: (317) 233-0178 or  
 Toll Free: 1-800-451-6027 x30178 (within Indiana)  
 Facsimile Number: (317) 232-6749  
[www.IN.gov/idem](http://www.IN.gov/idem)

**NOTES:**

- The purpose of GSD-01 is to provide essential information about the entire source of air pollutant emissions. GSD-01 is a required form.
- Detailed instructions for this form are available on the Air Permit Application Forms website.
- All information submitted to IDEM will be made available to the public unless it is submitted under a claim of confidentiality. Claims of confidentiality must be made at the time the information is submitted to IDEM, and must follow the requirements set out in 326 IAC 17.1-4-1. Failure to follow these requirements exactly will result in your information becoming a public record, available for public inspection.

**PART A: Source / Company Location Information**

<b>1. Source / Company Name:</b> Oaktown 2 / Keyrock Environment LLC		<b>2. Plant ID:</b> —	
<b>3. Location Address:</b> 1500 feet north of the intersection of E. Freedlanville Rd. and N. Abrams Rd			
<b>City:</b> Oak Town	<b>State:</b> IN	<b>ZIP Code:</b> 47561 —	
<b>4. County Name:</b> Knox		<b>5. Township Name:</b> Busseron	
<b>6. Geographic Coordinates:</b>			
<b>Latitude:</b> 38.878916°		<b>Longitude:</b> -87.433010°	
<b>7. Universal Transferal Mercadum Coordinates (if known):</b>			
<b>Zone:</b> 16	<b>Horizontal:</b> E 462441.01	<b>Vertical:</b> N 4303428.99	
<b>8. Adjacent States:</b> Is the source located within 50 miles of an adjacent state? <input type="checkbox"/> No <input checked="" type="checkbox"/> Yes – <i>Indicate Adjacent State(s):</i> <input checked="" type="checkbox"/> Illinois (IL) <input type="checkbox"/> Michigan (MI) <input type="checkbox"/> Ohio (OH) <input type="checkbox"/> Kentucky (KY)			
<b>9. Attainment Area Designation:</b> Is the source located within a non-attainment area for any of the criteria air pollutants? <input checked="" type="checkbox"/> No <input type="checkbox"/> Yes – <i>Indicate Nonattainment Pollutant(s):</i> <input type="checkbox"/> CO <input type="checkbox"/> Pb <input type="checkbox"/> NO <sub>x</sub> <input type="checkbox"/> O <sub>3</sub> <input type="checkbox"/> PM <input type="checkbox"/> PM <sub>10</sub> <input type="checkbox"/> PM <sub>2.5</sub> <input type="checkbox"/> SO <sub>2</sub>			
<b>10. Portable / Stationary:</b> Is this a portable or stationary source? <input checked="" type="checkbox"/> Portable <input type="checkbox"/> Stationary			

**PART B: Source Summary**

<b>11. Company Internet Address (optional):</b>	
<b>12. Company Name History:</b> Has this source operated under any other name(s)? <input checked="" type="checkbox"/> No <input type="checkbox"/> Yes – <i>Provide information regarding past company names in Part I, Company Name History.</i>	
<b>13. Portable Source Location History:</b> Will the location of the portable source be changing in the near future? <input checked="" type="checkbox"/> Not Applicable <input type="checkbox"/> No <input type="checkbox"/> Yes – <i>Complete Part J, Portable Source Location History, and Part K, Request to Change Location of Portable Source.</i>	
<b>14. Existing Approvals:</b> Have any exemptions, registrations, or permits been issued to this source? <input checked="" type="checkbox"/> No <input type="checkbox"/> Yes – <i>List these permits and their corresponding emissions units in Part M, Existing Approvals.</i>	
<b>15. Unpermitted Emissions Units:</b> Does this source have any unpermitted emissions units? <input checked="" type="checkbox"/> No <input type="checkbox"/> Yes – <i>List all unpermitted emissions units in Part N, Unpermitted Emissions Units.</i>	
<b>16. New Source Review:</b> Is this source proposing to construct or modify any emissions units? <input type="checkbox"/> No <input checked="" type="checkbox"/> Yes – <i>List all proposed new construction in Part O, New or Modified Emissions Units.</i>	
<b>17. Risk Management Plan:</b> Has this source submitted a Risk Management Plan? <input checked="" type="checkbox"/> Not Required <input type="checkbox"/> No <input type="checkbox"/> Yes → Date submitted: _____ EPA Facility Identifier: — —	

**PART C: Source Contact Information**

**IDEM will send the original, signed permit decision to the person identified in this section. This person MUST be an employee of the permitted source.**

18. Name of Source Contact Person: Joe Lane

19. Title (optional): Permitting and Regulatory Manager

20. Mailing Address: 153 Jackson Avenue

City: Madison

State: WV

ZIP Code: 25130 –

21. Electronic Mail Address (optional): jlane@keyrockenergy.com

22. Telephone Number: ( 304 ) 989 – 5533

23. Facsimile Number (optional): ( ) –

**PART D: Authorized Individual/Responsible Official Information**

IDEM will send a copy of the permit decision to the person indicated in this section, if the Authorized Individual or Responsible Official is different from the Source Contact specified in Part C.

24. Name of Authorized Individual or Responsible Official: Mark Allaman

25. Title: Managing Director

26. Mailing Address: P.O.Box 2223

City: Johnson City

State: TN

ZIP Code: 37605 –

27. Telephone Number: ( 304 ) 573 – 9873

28. Facsimile Number (optional): ( ) –

29. Request to Change the Authorized Individual or Responsible Official: Is the source officially requesting to change the person designated as the Authorized Individual or Responsible Official in the official documents issued by IDEM, OAQ? *The permit may list the title of the Authorized Individual or Responsible Official in lieu of a specific name.*

No  Yes – **Change Responsible Official to:**

**PART E: Owner Information**

30. Company Name of Owner: Keyrock Environment LLC

31. Name of Owner Contact Person: Bruce Horman

32. Mailing Address: P.O. Box 2223

City: Johnson City

State: TN

ZIP Code: 37605 –

33. Telephone Number: ( 618 ) 443 – 8753

34. Facsimile Number (optional): ( ) –

34. Operator: Does the "Owner" company also operate the source to which this application applies?

No – Proceed to Part F below.  Yes – Enter "SAME AS OWNER" on line 35 and proceed to Part G below.

**PART F: Operator Information**

35. Company Name of Operator: SAME AS OWNER

36. Name of Operator Contact Person:

37. Mailing Address:

City:

State:

ZIP Code: –

38. Telephone Number: ( ) –

39. Facsimile Number (optional): ( ) –







**PART L: Source Process Description**

Complete this section to summarize the main processes at the source.

64. Process Description	65. Products	66. SIC Code	67. NAICS Code
Sanitary Services		4959	

**PART M: Existing Approvals (if applicable)**

Complete this section to summarize the approvals issued to the source since issuance of the main operating permit.

68. Permit ID	69. Emissions Unit IDs	70. Expiration Date

**PART N: Unpermitted Emissions Units (if applicable)**

Complete this section only if the source has emission units that are not listed in any permit issued by IDEM, OAQ.

71. Emissions Unit ID	72. Type of Emissions Unit	73. Actual Dates		
		Began Construction	Completed Construction	Began Operation

**PART O: New or Modified Emissions Units (if applicable)**

Complete this section only if the source is proposing to add new emission units or modify existing emission units.

74. Emissions Unit ID	75. NEW	76. MOD	77. Type of Emissions Unit	78. Estimated Dates		
				Begin Construction	Complete Construction	Begin Operation
		X	(2)Enclosed Flares	5/15/2023	5/24/2022	6/15/2023

	enter:
State of Operation	IN
Flare type	Zink Trailer 1800
Target flow rate for source [scfm]	403.0
Methane Concentration [%]	100%
CH4 heating value [Btu/scf]	910
Max Heat Release per Flare [MMBtu/hr]	22.0
Number of Flares Required for Target	1

Emission Source	Max Heat Release		Emissions Factor		Emissions	
	Per Flare	Total Site	Pollutant	Value	(lb/hr)	(ton/year)
Zink Trailer 1800 Flares	22.0 MMBTU/hr	22.0 MMBTU/hr	CO	0.1500 lb/mmbtu	3.301	14.5
			NOx	0.1000 lb/mmbtu	2.200	9.6
			PM	17.0000 lb/mmscf	0.411	1.8
			PM10	0.0000 lb/mmscf	-	-
			SO2	0.0000 lb/mmbtu	-	-
			VOC	0.0000 lb/mmbtu	-	-
HAPs	0.0000 lb/mmbtu	-	-			

	enter:
State of Operation	IN
Flare type	AB-200
Target flow rate for source [scfm]	577.0
Methane Concentration [%]	100%
CH4 heating value [Btu/scf]	910
Max Heat Release per Flare [MMBtu/hr]	30.0
Number of Flares Required for Target	1

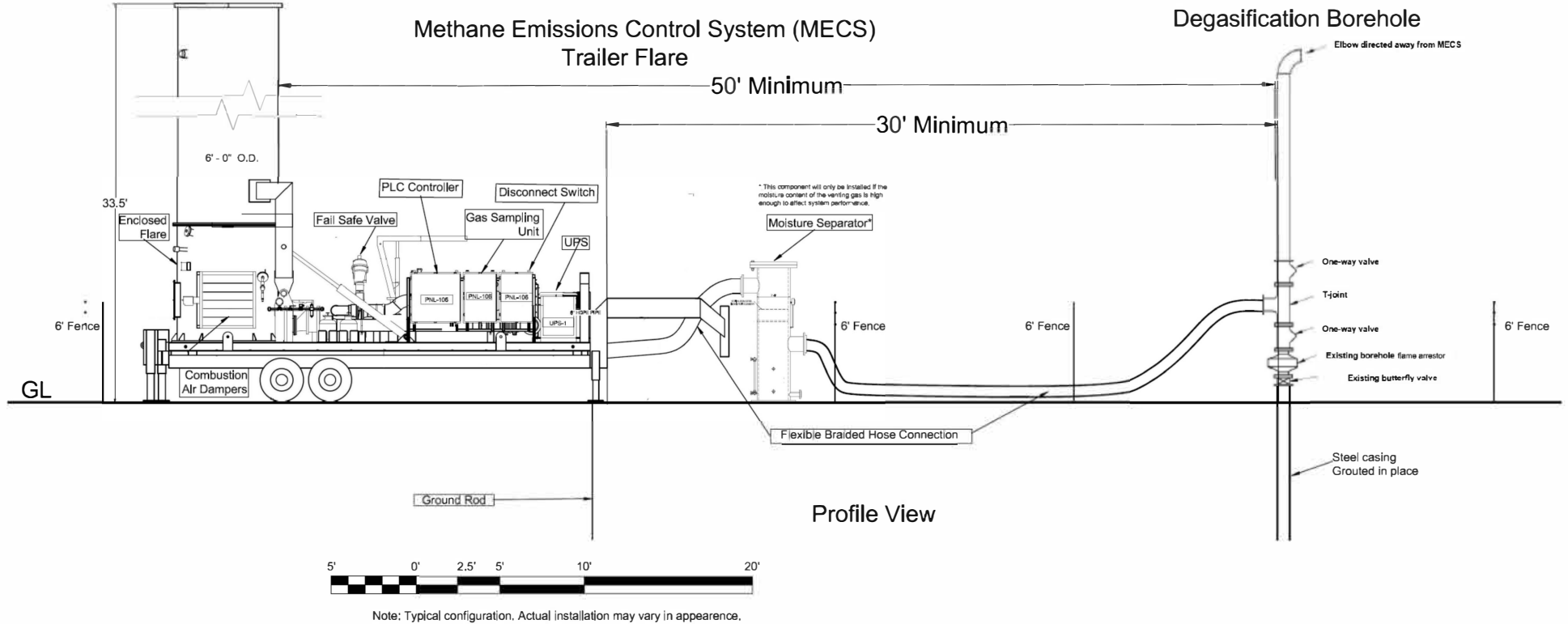
Total Site Emissions	
Emissions	
(lb/hr)	(ton/year)
6.451	28.3
4.721	20.7
0.567	2.5
0.000	0.0
-	-
-	-
-	-

CO  
NOX  
PM

Emission Source	Max Heat Release		Emissions Factor		Emissions	
	Per Flare	Total Site	Pollutant	Value	(lb/hr)	(ton/year)
AB-200 Flares	31.5 MMBTU/hr	31.5 MMBTU/hr	CO	0.1000 lb/mmbtu	3.150	13.8
			NOx	0.0800 lb/mmbtu	2.520	11.0
			PM	4.5000 lb/mmscf	0.156	0.7
			PM10	0.0000 lb/mmscf	-	-
			SO2	0.0000 lb/mmbtu	-	-
			VOC	0.0000 lb/mmbtu	-	-
HAPs	0.0000 lb/mmbtu	-	-			



System Layout Side View and Top View – Trailer MECS with Direct Connection to Borehole



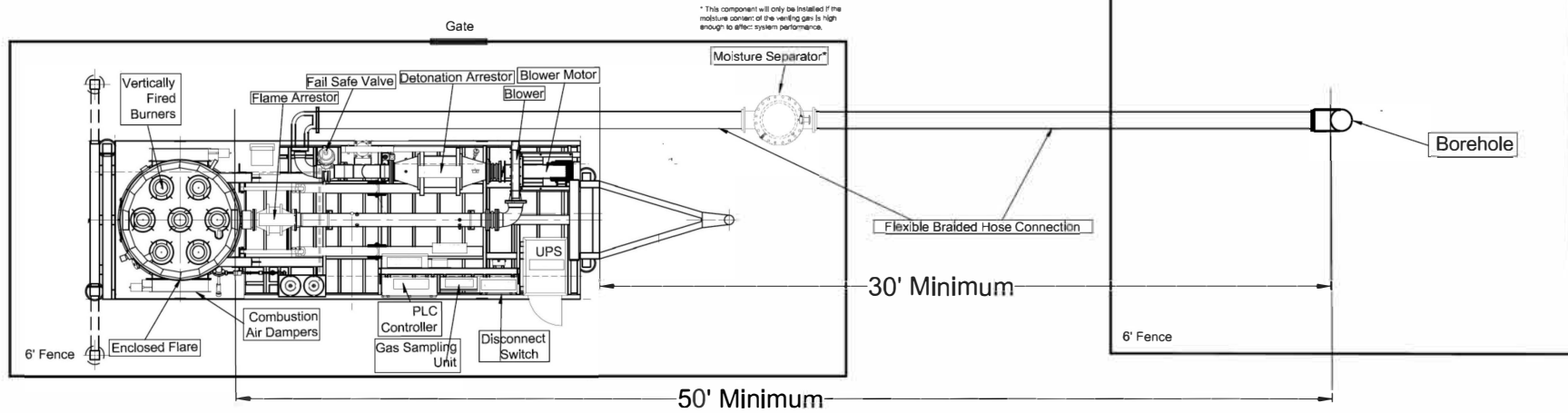
## Methane Emissions Control System (MECS) Trailer Flare

## Degasification Borehole



Note: Typical configuration. Actual installation may vary in appearance.

Plan View





To: Joe Stone  
Keyrock Energy

The AB-200 combustor is a non-temperature-controlled system. Following emissions rates are expected (not guaranteed) as stated below at 1700 Deg F and assuming a typical coal mine vent gas composition (methane and inerts, not heavier hydrocarbons):

NOx	0.08 lb/MMBtu
CO	0.1 lb/MMBtu
SOx	0 (N/A)
VOM (Non-Methane and Ethane)	0
PM	4.5 lb/MMSCF
PM 10	4 lb/MMSCF
DRE	≥99%
Tested Capacity w/5' stack extension	577 SCFM

The above emissions factors are based on gas with lower heating value of 910 BTU/scf.

Cimarron submits this letter to Keyrock under the terms of the Non Disclosure Agreement executed between Cimarron and Keyrock on September 25th, 2020, and considers this letter to be "Confidential Information" subject to the duties and obligations therein.

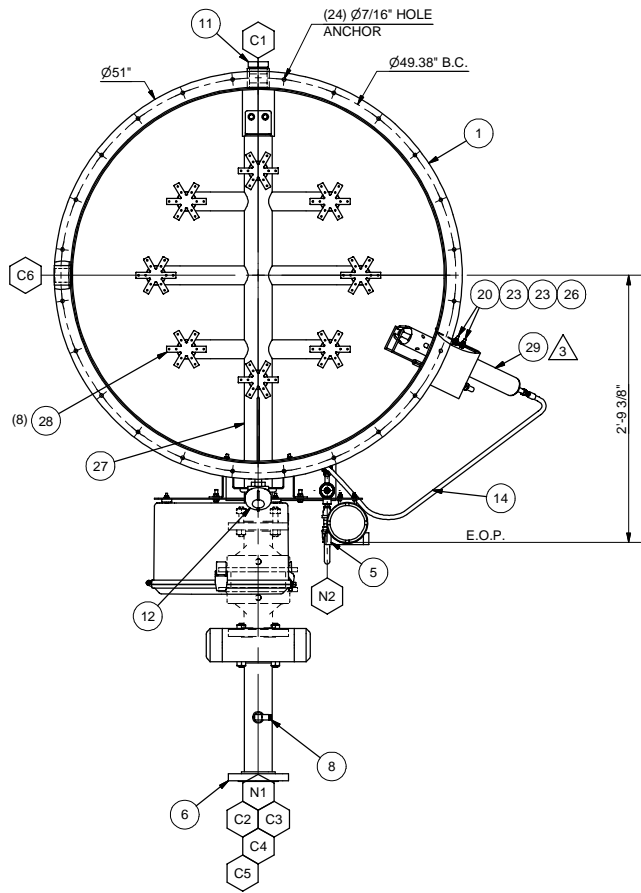
Should you have further questions, please do not hesitate to contact the undersigned.

Best Regards,

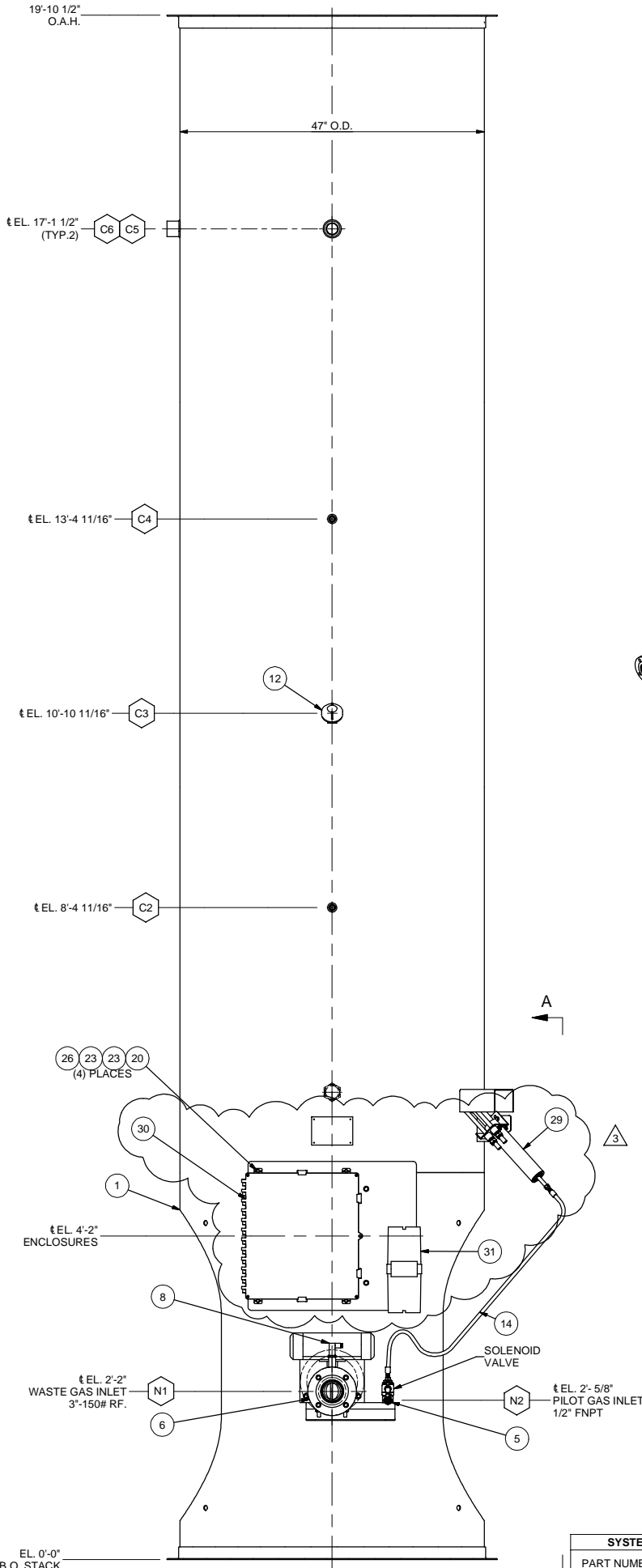
**Giorgio Sibilìa**  
Cimarron | Combustion Products

(Cell) 512-247-1557  
[gsibilìa@cimarron.com](mailto:gsibilìa@cimarron.com)

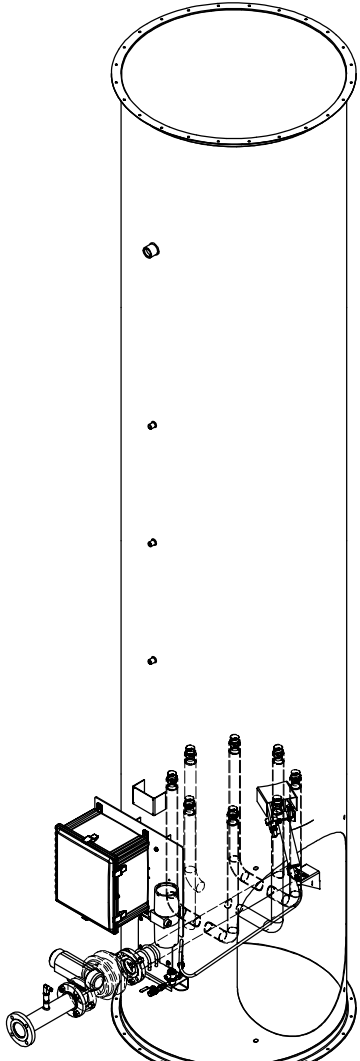




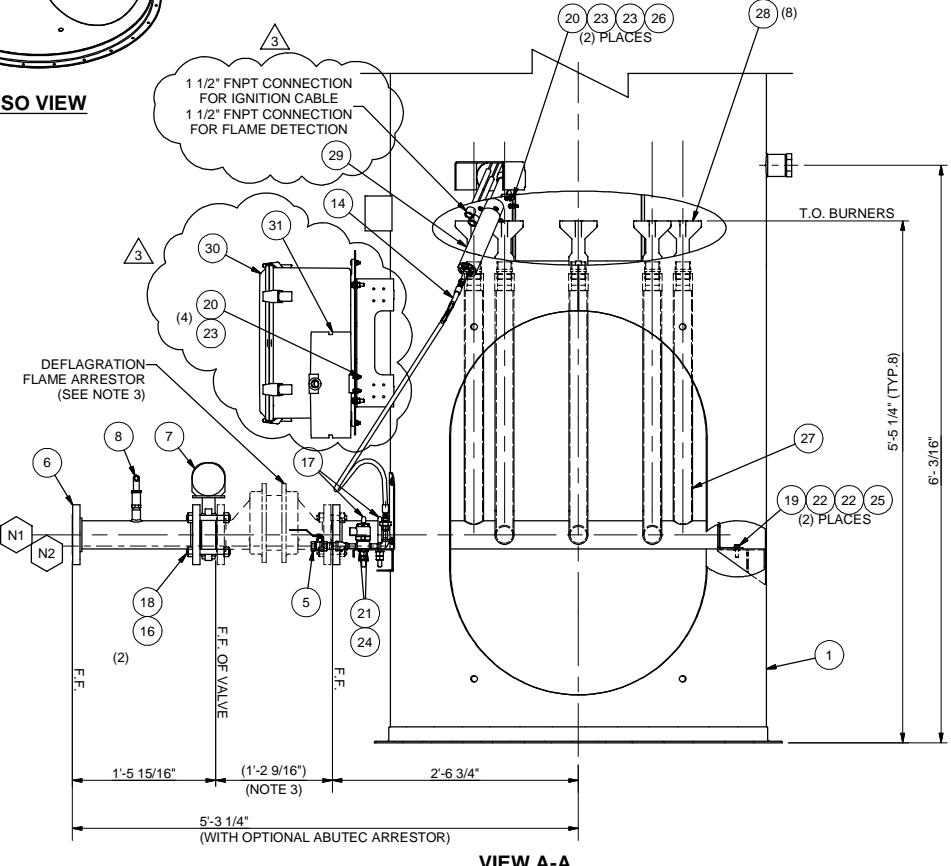
TOP VIEW



FRONT VIEW



ISO VIEW



VIEW A-A

NOZZLE SCHEDULE					
ITEM	TYPE	SERVICE	SIZE	RATING	SPEC
N1	RFSO	WASTE GAS	3"	150#	304SS
N2	FNPT	PILOT GAS	1/2"	150#	304SS
C1	FNPT	SIGHT GLASS	2"	150#	304SS
C2	FNPT	AUXILIARY	1/2"	150#	304SS
C3	FNPT	AUXILIARY	1/2"	150#	304SS
C4	FNPT	THERMOCOUPLE	1/2"	150#	304SS
C5	FNPT	AUXILIARY	1 1/2"	150#	304SS
C6	FNPT	AUXILIARY	1 1/2"	150#	304SS

BILL OF MATERIALS				
ITEM	QTY	PART NUMBER	DESCRIPTION	SPEC
1	1	AB200A200	STACK ASSEMBLY AB200	304 SS
2	-	-	(NOT USED)	-
3	-	-	(NOT USED)	-
4	-	-	(NOT USED)	-
5	1	104832	PILOT GAS TRAIN ASSEMBLY	304 SS
6	1	106767	BURNER INLET SPOOL ASSEMBLY	304 SS
7	1	108517	VALVE BUTTERFLY PNEUMATIC 3IN LP	304 SS
8	1	104281	PRESSURE TRANSMITTER 1/2IN NPT 0-50IN H2O W/ 6IN LEADS	304 SS
9	-	-	(NOT USED)	-
10	-	-	(NOT USED)	-
11	1	104528	SIGHT GLASS 2IN MNPT W/O REFLECTOR	304 SS
12	1	104280	THERMOWELL 9IN X 0.260 BORE 1/2IN MNPT STRAIGHT	304 SS
13	1	104493	IGNITION CABLE EXTERNAL 5FT PROFIRE (NOT SHOWN)	-
14	1	104356	HOSE BRAIDED 1/4IN X 48IN W/ MNPT ENDS	304 SS
15	1	104279	THERMOCOUPLE 9IN TYPE K	304 SS
16	2	104385	GASKET 3IN 150# SPIRAL WOUND CG 316L INNER X CS OUTER X GRAPHITE FILLER GREEN	304 SS
17	2	102692	U-BOLT, 3IN x 1/2IN W/ (2) FLAT WASHERS & (4) HEX NUTS	304 SS
18	4	104698	STUD BOLT, 5/8IN X 5 1/2IN W/ (2) HVY. HEX NUTS EA.	A-193-B8 A-194-8
19	2	154562	BOLT HEX CAP SCREW FULL THREAD 3/8IN-16 UNC x 1-1/4IN F593 GR 18-8	F593-18-8
20	10	154500	BOLT HEX CAP SCREW 1/4IN-20 UNC x 1IN F593 GR 18-8	F593-18-8
21	2	106996	BOLT HEX CAP SCREW FULL THREAD #10-32 UNF x 3/8IN F593 GR 18-8	F593-18-8
22	4	155415	WASHER FLAT 3/8IN NARROW F844 18-8	F844-18-8
23	16	155408	WASHER FLAT 1/4IN NARROW F844 18-8	F844-18-8
24	2	100609	WASHER FLAT #10 NARROW F844 18-8	F844-18-8
25	2	154874	NUT HEX 3/8IN-16 UNC F594 GR 18-8	F594-18-8
26	6	154866	NUT HEX 1/4IN-20 UNC F594 GR 18-8	F594-18-8
27	1	110531	SPIDER BURNER MANIFOLD ASSEMBLY	304 SS
28	8	109583	SPIDER BURNER CASTING, 1 1/2" FNPT (CK20) (NOTE 4)	CK20
29	1	112786	PILOT ASSEMBLY ACP-AB	-
30	1	SEE TABLE	MAIN CONTROL PANEL	-
31	1	113038	PILOT TRANSFORMER ENCLOSURE	-

NOTES: (UNLESS OTHERWISE SPECIFIED)

- ALL BOLT HOLES SHALL STRADDLE COMMON CENTERLINES.
- ALL NOZZLES AND COUPLINGS TO BE CAPPED OR PLUGGED PRIOR TO SHIPPING.
- DEFLAGRATION FLAME ARRESTOR REQUIRED. OPTIONAL ABUTEK ARRESTOR KIT SHOWN AS REFERENCE.
- BURNER DRILLINGS MUST BE CONFIRMED BY ENGINEERING.

SYSTEM DESIGNATION TABLE		
PART NUMBER	VOLTAGE	CONTROL PANEL
940004A	24V DC	112520
940004B	120V AC	112522

UNLESS OTHERWISE SPECIFIED ALL DIMENSIONS ARE IN INCHES. DO NOT SCALE DRAWING.

TOLERANCE:  
 OVERALL ELEVATION ±1"  
 NOZZLE ELEVATION ±1/2"  
 GYRE ELEVATION ±1"  
 FRACTIONS ±1/16"  
 DECIMALS XX ±.05  
 DECIMALS XXX ±.030  
 ANGLE SQUARENESS ±1°  
 ACROSS FACE ±1/16"  
 FLANGE ROTATION ±1/16" MAX.

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QTY. SHIP ORDER APPROX WEIGHT/LBS 1,800

REV	DATE	DESCRIPTION	BY	CHK'D	APPR
3	08/02/19	REPLACED PILOT, X-FORMER, AND CONTROL PANEL	RJ	MLM	MT
2	08/01/18	REPLACED TUBES WITH BURNERS	RJ	SOP	JH
1	8/25/17	CORRECT NOZZLE SCHEDULE N2 SIZE	FPF		
0	5/5/17	ISSUED FOR CONSTRUCTION	FPF	DMR	RLW

REVISION HISTORY

CUSTOMER/LOCATION: ABUTEK AUSTIN, TEXAS

TITLE: GENERAL ARRANGEMENT AB-200 STANDARD COMBUSTION

SCALE: N.T.S. PROJECT NO: AB 200

SHEET 1 OF 1 DWG NO. 940004 REV LEVEL 3

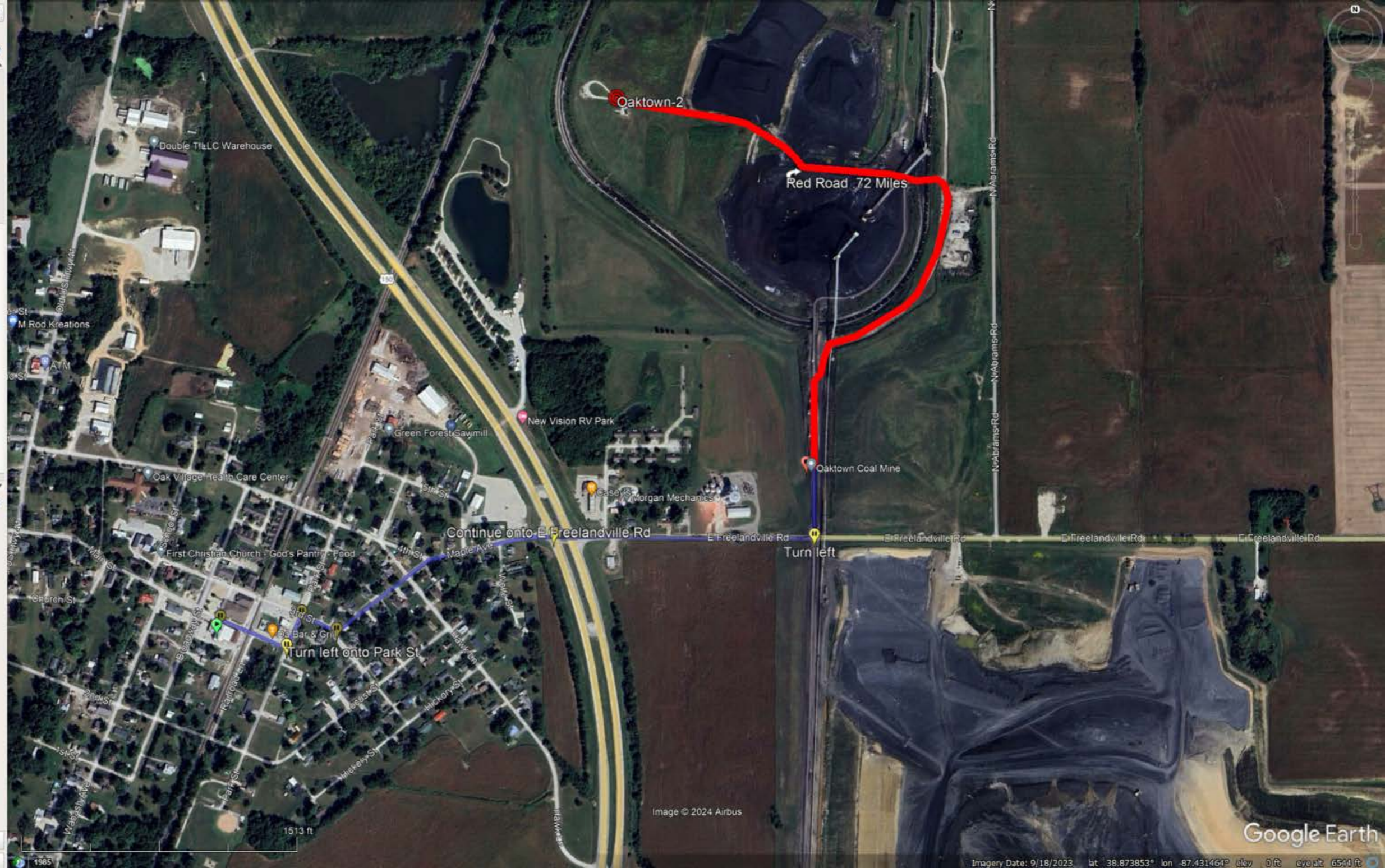
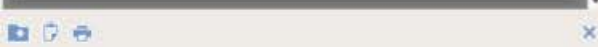
AEREON  
CREATING A CLEANER PLANET  
FLARE JORDAN  
INDUSTRIES TECHNOLOGIES  
FLARE INDUSTRIES, LLC  
1400 West Loop South, Suite 1000  
Houston, Texas 77027



**A** United States Postal Service

1. Head **southeast** on **Main St** toward **Legion Ln**  
394 ft
2. Turn **left** onto **Park St**  
203 ft
3. Turn **right** at the 1st cross street onto **3rd St**  
213 ft
4. Turn **left** onto **Maple Ave**  
0.3 mi
5. Continue onto **E Freelandville Rd**  
0.3 mi
6. Turn **left**  
397 ft

**B** Oaktown Coal Mine



**From:** [Moulik, Pratim](#)  
**To:** [Joe Lane](#)  
**Subject:** RE: Oaktown-1 and Oaktown-2 Clerical error corrections  
**Date:** Thursday, June 27, 2024 8:39:00 AM  
**Attachments:** [image001.png](#)  
[image002.png](#)  
[image011.png](#)  
[image012.png](#)  
[image013.png](#)  
[image014.png](#)  
[image015.png](#)  
[image016.png](#)  
[image003.png](#)

---

Good Morning Joe,

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With Regards,  
Pratim Moulik



Pratim Moulik  
Environmental Manager 2

(317) 234-6871 • [PMoulik@idem.IN.gov](mailto:PMoulik@idem.IN.gov)

[YouTube](#) | [LinkedIn](#) | [Facebook](#) | [Instagram](#) | [Twitter](#) | [www.idem.IN.gov](http://www.idem.IN.gov)

Scan the QR code to leave your feedback.

We appreciate your input!



---

**From:** Joe Lane <[jlane@keyrockenergy.com](mailto:jlane@keyrockenergy.com)>  
**Sent:** Wednesday, June 26, 2024 6:30 PM  
**To:** Moulik, Pratim <[PMoulik@idem.IN.gov](mailto:PMoulik@idem.IN.gov)>  
**Subject:** RE: Oaktown-1 and Oaktown-2 Clerical error corrections

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---

Hello Pratim,

If you are good with these, I will get them in the mail ASAP..

Thanks

Joe Lane  
Permitting Compliance Mgr.  
304-989-5533

---

**From:** Moulik, Pratim <[PMoulik@idem.IN.gov](mailto:PMoulik@idem.IN.gov)>  
**Sent:** Wednesday, June 26, 2024 8:27 AM  
**To:** Joe Lane <[jlane@keyrockenergy.com](mailto:jlane@keyrockenergy.com)>  
**Subject:** RE: Oaktown-1 and Oaktown-2 Clerical error corrections

Good Morning Joe,

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With Regards,  
Pratim Moulik



Pratim Moulik  
Environmental Manager 2

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 |  |  |  |  | [www.idem.IN.gov](http://www.idem.IN.gov)

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---

**From:** Joe Lane <[jlane@keyrockenergy.com](mailto:jlane@keyrockenergy.com)>  
**Sent:** Thursday, June 20, 2024 9:58 AM  
**To:** Moulik, Pratim <[PMoulik@idem.IN.gov](mailto:PMoulik@idem.IN.gov)>  
**Subject:** FW: Oaktown-1 and Oaktown-2 Clerical error corrections

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---

**From:** Joe Lane  
**Sent:** Tuesday, June 18, 2024 11:33 PM  
**To:** IDEM Air Permit Apps <[AirPermitApps@idem.IN.gov](mailto:AirPermitApps@idem.IN.gov)>  
**Cc:** JACKSON, DWANA <[djackson@idem.in.gov](mailto:djackson@idem.in.gov)>  
**Subject:** Oaktown-1 and Oaktown-2 Clerical error corrections

Attached are two corrected modifications for previously approved Oaktown permits. Upon the modification of these permits the names were accidentally switched.

Oaktown-1 (Permit# 777-46713-05579) Should have been assigned address N [Chattin Rd & N Emison Mill Rd, Oaktown, IN 47561](#).

Oaktown-2 (Permit# 777-46712-05580) Should have been assigned address [E Freedlandville Rd & N Abrams Rd .28 MI, Oaktown, IN 47561](#).

Keyrock Environmental is requesting that this error be corrected in your database.

Should you have any further questions or concerns please feel free to contact me at your earliest convenience

Thanks

Joe Lane  
Permitting Compliance Mgr.  
304-989-5533

**From:** [Moulik, Pratim](#)  
**To:** [Joe Lane](#)  
**Subject:** RE: Oaktown-1 and Oaktown-2 Clerical error corrections  
**Date:** Thursday, June 27, 2024 11:17:00 AM  
**Attachments:** [image001.png](#)  
[image002.png](#)  
[image005.png](#)  
[image006.png](#)  
[image007.png](#)  
[image008.png](#)  
[image009.png](#)  
[image010.png](#)  
[image003.png](#)

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For Step 1, you just need to send an email to me.

For Step 2, [https://www.in.gov/idem/forms/idem-agency-forms/#oaq\\_permits\\_gsd](https://www.in.gov/idem/forms/idem-agency-forms/#oaq_permits_gsd) is the link you can go to to get the application forms you need. In that, you would download <https://forms.in.gov/Download.aspx?id=5793> (GSD-01) form as well as <https://forms.in.gov/Download.aspx?id=5791> (Cover Sheet) and compile it into 1 document with the cover sheet before GSD-01 form. In Cover sheet, fill it out and mention that its an administrative amendment and address change. Applications have to be filled out whenever a source is renewing a permit or wants to make a change(such as an AA). If you need any help filling out the forms, either contact me or the Compliance and Technical Assistance Program(CTAP). Here is the link: <https://www.in.gov/idem/ctap/contact/>.

With Regards,  
Pratim Moulik



Pratim Moulik  
Environmental Manager 2

(317) 234-6871 • [PMoulik@idem.IN.gov](mailto:PMoulik@idem.IN.gov)

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---

**From:** Joe Lane <[jlane@keyrockenergy.com](mailto:jlane@keyrockenergy.com)>  
**Sent:** Thursday, June 27, 2024 10:42 AM  
**To:** Moulik, Pratim <[PMoulik@idem.IN.gov](mailto:PMoulik@idem.IN.gov)>  
**Subject:** RE: Oaktown-1 and Oaktown-2 Clerical error corrections

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---

I think I understand now. Still a little confused on what form to send.

Step 1: Send and Email to IDEM requesting to withdraw applications 47971 and 47973.

Step 2: After withdrawn submit two more application requesting and AA.

Questions: What does the AA application look like? Is it just a piece of the previous application that fixes the address. Or the whole application. Or a completely different form. This is what confuses me the most.

I apologize for my lack of understanding. This is my first time doing an AA.

Thanks

---

**From:** Moulik, Pratim <[PMoulik@idem.IN.gov](mailto:PMoulik@idem.IN.gov)>

**Sent:** Thursday, June 27, 2024 10:26 AM

**To:** Joe Lane <[jlane@keyrockenergy.com](mailto:jlane@keyrockenergy.com)>

**Subject:** RE: Oaktown-1 and Oaktown-2 Clerical error corrections

Hi Joe,

I was asking about withdrawing the applications, not the permits. If application 47971 and 47973 get withdrawn, that does not affect the operations of the two different flare sources. This means that if the two applications get withdrawn, permit 46712 and 46713 will still remain in effect. What you mentioned about stopping the flares would only be the case if the source wants to revoke the current operating permit which only happens if a plant wants to close the business or there is a major violation which is clearly not the case. For application 47971 and 47973, if you want to withdraw those two, just confirm via email. IDEM takes care of the administrative stuff. You can submit two separate applications requesting for an Administrative Amendment just to correct addresses. It happens all the time that sources request to withdraw applications due to mistakes found and then submit new applications with the corrections.

With Regards,  
Pratim Moulik



Pratim Moulik  
Environmental Manager 2

(317) 234-6871 • [PMoulik@idem.IN.gov](mailto:PMoulik@idem.IN.gov)

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**Sent:** Thursday, June 27, 2024 9:26 AM  
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**Subject:** RE: Oaktown-1 and Oaktown-2 Clerical error corrections

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---

Hello Pratim,

This seems a bit extreme just for an address change. If we withdraw the applications, we will have to stop flaring on those sites while waiting on the new permits. This cost would be thousands of dollars. Depending on how long it will take your agency to approve them. Why do they need to be withdrawn. Worst case scenario couldn't I just submit for a relocation permit swapping the addresses? How long do you think it would take from withdraw to approval?

Please feel free to call if this would be easier for you

Thanks  
Joe Lane  
Permitting Compliance Mgr.  
304-989-5533

---

**From:** Moulik, Pratim <[PMoulik@idem.IN.gov](mailto:PMoulik@idem.IN.gov)>  
**Sent:** Thursday, June 27, 2024 8:40 AM  
**To:** Joe Lane <[jlane@keyrockenergy.com](mailto:jlane@keyrockenergy.com)>  
**Subject:** RE: Oaktown-1 and Oaktown-2 Clerical error corrections

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Pratim Moulik



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Emison Mill Rd, Oaktown, IN 47561 .

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Abrams Rd .28 MI, Oaktown, IN 47561.

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Should you have any further questions or concerns please feel free to contact me at your  
earliest convenience

Thanks

Joe Lane  
Permitting Compliance Mgr.  
304-989-5533

**From:** [Joe Lane](#)  
**To:** [Moulik, Pratim](#)  
**Subject:** Application 47971 and 47973 Withdrawal  
**Date:** Thursday, June 27, 2024 1:53:44 PM

---

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---

Good Afternoon,

Keyrock Energy LLC would like to officially withdraw applications 47971 and 47973.

Should you have any questions or concerns please feel free to contact at your earliest convenience

Thanks

Joe Lane  
Keyrock Energy LLC  
Permitting Compliance Mgr.  
304-989-5533