

FESCO, Ltd.
1100 Fesco Ave. - Alice, Texas 78332

For: Ameredev Operating, LLC
2901 Via Fortuna
Austin, Texas 78746

Sample: Nandina CTB

Sales Meter Run
Spot Gas Sample @ 78 psig & 96°F

Date Sampled: 06/03/2023

Job Number: 232371.005

CHROMATOGRAPH EXTENDED ANALYSIS - GPA 2286

Un-Normalized			
COMPONENT	Mol%	MOL%	GPM
Hydrogen Sulfide*	-----	0.160	
Oxygen	0.001	0.001	
Nitrogen	1.194	1.215	
Carbon Dioxide	0.819	0.834	
Methane	75.340	76.658	
Ethane	10.180	10.358	2.836
Propane	5.697	5.797	1.635
Isobutane	0.927	0.943	0.316
n-Butane	2.006	2.041	0.659
2-2 Dimethylpropane	0.008	0.008	0.003
Isopentane	0.571	0.581	0.218
n-Pentane	0.498	0.506	0.188
Hexanes	0.397	0.411	0.173
Heptanes Plus	<u>0.483</u>	<u>0.487</u>	<u>0.198</u>
Totals	98.121	100.000	6.226

Computed Real Characteristics Of Heptanes Plus:

Specific Gravity ----- 3.303 (Air=1)
Molecular Weight ----- 95.30
Gross Heating Value ----- 5111 BTU/CF

Computed Real Characteristics Of Total Sample:

Specific Gravity ----- 0.765 (Air=1)
Compressibility (Z) ----- 0.9960
Molecular Weight ----- 22.07
Gross Heating Value
Dry Basis ----- 1324 BTU/CF
Saturated Basis ----- 1301 BTU/CF

*Hydrogen Sulfide tested on location by: Stain Tube Method (GPA 2377)
Results: 100.6 Gr/100 CF, 1600 PPMV or 0.160 Mol %

Base Conditions: 15.025 PSI & 60 Deg F

Sampled By: (16) D. Field

Certified: FESCO, Ltd. - Alice, Texas

Analyst: LG

Processor: HB

Cylinder ID: T-6184

Conan Pierce 361-661-7015

CHROMATOGRAPH EXTENDED ANALYSIS - GPA 2286

TOTAL REPORT

COMPONENT	MOL %	GPM	WT %
Hydrogen Sulfide*	0.160		0.247
Oxygen	0.001		0.001
Nitrogen	1.215		1.542
Carbon Dioxide	0.834		1.663
Methane	76.658		55.714
Ethane	10.358	2.836	14.110
Propane	5.797	1.635	11.580
Isobutane	0.943	0.316	2.483
n-Butane	2.041	0.659	5.374
2,2 Dimethylpropane	0.008	0.003	0.026
Isopentane	0.581	0.218	1.899
n-Pentane	0.506	0.188	1.654
2,2 Dimethylbutane	0.007	0.003	0.027
Cyclopentane	0.000	0.000	0.000
2,3 Dimethylbutane	0.046	0.019	0.180
2 Methylpentane	0.130	0.055	0.508
3 Methylpentane	0.081	0.034	0.316
n-Hexane	0.147	0.062	0.574
Methylcyclopentane	0.068	0.025	0.259
Benzene	0.052	0.015	0.184
Cyclohexane	0.069	0.024	0.263
2-Methylhexane	0.018	0.009	0.082
3-Methylhexane	0.022	0.010	0.100
2,2,4 Trimethylpentane	0.012	0.006	0.062
Other C7's	0.043	0.019	0.193
n-Heptane	0.036	0.017	0.163
Methylcyclohexane	0.049	0.020	0.218
Toluene	0.036	0.012	0.150
Other C8's	0.040	0.019	0.200
n-Octane	0.011	0.006	0.057
Ethylbenzene	0.003	0.001	0.014
M & P Xylenes	0.006	0.002	0.029
O-Xylene	0.002	0.001	0.010
Other C9's	0.013	0.007	0.074
n-Nonane	0.002	0.001	0.012
Other C10's	0.004	0.002	0.026
n-Decane	0.001	0.001	0.006
Undecanes (11)	<u>0.000</u>	<u>0.000</u>	<u>0.000</u>
Totals	100.000	6.226	100.000

Computed Real Characteristics of Total Sample

Specific Gravity ----- 0.765 (Air=1)
 Compressibility (Z) ----- 0.9960
 Molecular Weight ----- 22.07

Gross Heating Value

Dry Basis ----- 1324 BTU/CF
 Saturated Basis ----- 1301 BTU/CF

Sample Date: 06/03/2023

Sample Time: 12:35

Analysis Date: 06/10/2023

Analysis Time: 05:44

Sample Pressure: 78 psig

Sample Temp: 96 °F

Sampling Flow Rate: 3567 MCF/D

Ambient Air Temp: 79 °F

Heating Method Utilized: Yes

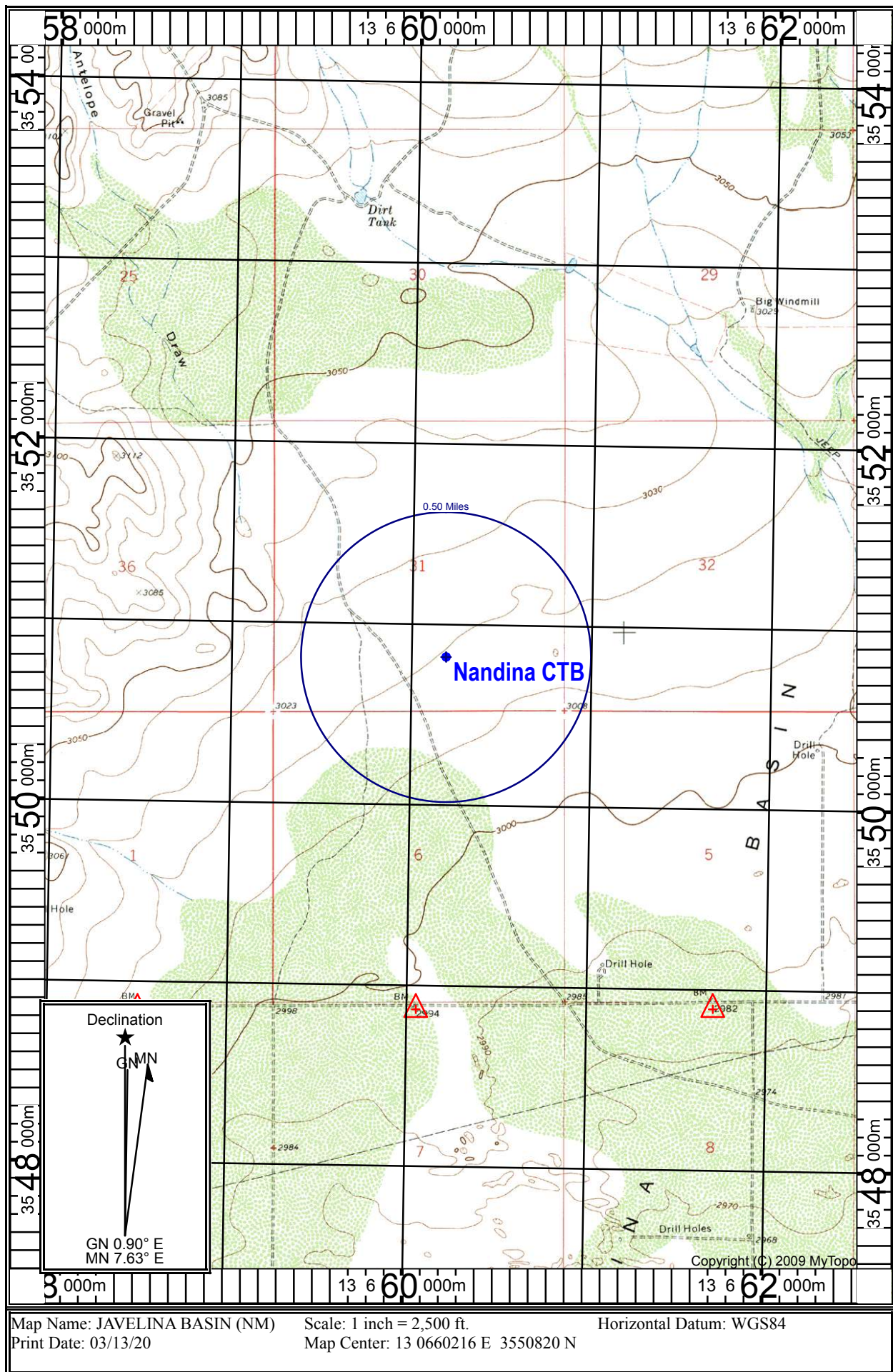
Sampling Method: Fill & Empty

Device: (GC) S15

Make & Model: Shimadzu GC 2014

Last Verification Date: 06/08/2023

5/30/2024	Red Bud	LP Flare Estimation Sheet - Tank Pressure, Valve Status	160.75	157.59	Flared	3:06 AM	10:35 PM	6.73	Malfunction	Manually changed west LP vent
5/31/2024	Received by OGD: 6/26/2024 2:22:45 PM	HP Graph Tags - TankLogix	566.53	555.43	Flared	12:01 AM	4:01 AM	3.37	Repair/Maintenance	Facility was sent to Page 3 of 9
6/1/2024	Nandina	LP Flare Estimation Sheet - Tank Pressure, Valve Status	51.74	50.73	Flared	8:36 AM	11:56 PM	5.50	Oxygen	Sales blowers were switched of
6/2/2024	Nandina	HP Flare - VRU Discharge	114.90	112.65	Flared	1:54 AM	8:31 AM	4.52	Oxygen	Facility was getting O2 spikes fro
6/2/2024	Nandina	LP Flare Estimation Sheet - Tank Pressure, Valve Status	66.57	65.27	Flared	12:00 AM	11:50 PM	5.52	Oxygen	Sales blowers were switched of
6/3/2024	Amen Corner	LP Flare Estimation Sheet - Tank Pressure, Valve Status	80.28	78.71	Flared	1:10 PM	11:59 PM	6.38	Insufficient Availability	Sales blowers were faulting thro
6/3/2024	Nandina	LP Flare Estimation Sheet - Tank Pressure, Valve Status	89.38	87.62	Flared	12:02 AM	11:54 PM	10.80	Flared more than 8 HRs	Sales blowers were switched of
6/4/2024	Amen Corner	LP Flare Estimation Sheet - Tank Pressure, Valve Status	111.06	108.88	Flared	12:00 AM	5:28 PM	8.40	Flared more than 8 HRs	Sales blowers were faulting thro
6/4/2024	Nandina	HP Graph Tags - TankLogix	136.00	133.33	Flared	12:58 PM	11:28 PM	1.90	Repair/Maintenance	Note: Manually moved the 5 MC
6/5/2024	Nandina	HP Graph Tags - TankLogix	50.81	49.82	Flared	12:17 AM	11:04 AM	0.63	Repair/Maintenance	It seems like the flare scrubber i
6/7/2024	Red Bud	HP Graph Tags - TankLogix	107.85	105.74	Flared	3:25 AM	7:30 PM	1.00	Repair/Maintenance	The regulator on the BPV for the
6/8/2024	Nandina	HP Graph Tags - TankLogix	82.56	80.94	Flared	6:16 PM	7:02 PM	0.58	Insufficient Availability	Line pressure has been getting u
6/9/2024	Amen Corner	Blowdown Meter	62.05	60.83	Flared	10:38 AM	11:59 PM	12.42	Flared more than 8 HRs	Heater was being purged to test
6/10/2024	Amen Corner	Blowdown Meter	70.33	68.95	Flared	12:00 AM	10:59 PM	13.92	Flared more than 8 HRs	Heater was being purged to test
6/10/2024	Red Bud	HP Flare - VRU Discharge	50.63	49.63	Flared	4:16 AM	5:30 AM	1.25	Repair/Maintenance	Sample probe had a leak on it so
6/11/2024	Firethorn	LP Flare Estimation Sheet - Contact Tower	122.80	120.39	Flared	12:34 PM	6:15 PM	1.62		
6/11/2024	Firethorn	LP Flare Estimation Sheet - Clean VRT	82.65	81.03	Flared	5:54 AM	8:33 PM	3.85		
6/11/2024	Nan 1.5N	HP Graph Tags - TankLogix	984.55	965.25	Flared	1:25 PM	6:12 PM	1.70	Emergency	Line pressure was staying high b
6/11/2024	Nandina	HP Graph Tags - TankLogix	105.25	103.19	Flared	1:10 PM	9:10 PM	2.68	Insufficient Availability	Pinion was shut in for most of th
6/12/2024	Nan 1.5N	HP Graph Tags - TankLogix	190.96	187.22	Flared	7:12 AM	8:31 AM	0.25	Insufficient Availability	Line pressure was staying high b
6/12/2024	Nandina	HP Graph Tags - TankLogix	292.19	286.46	Flared	7:11 AM	11:57 PM	2.25	Insufficient Availability	Scrubber pressures got above 95
6/12/2024	Nandina	HP Flare - VRU Discharge	91.58	89.79	Flared	10:12 AM	9:14 PM	3.28	Oxygen	One of the tank pressures dropp
6/13/2024	Red Bud	HP Flare - VRU Discharge	218.13	213.85	Flared	11:15 AM	3:54 PM	4.67		
6/18/2024	Amen Corner	HP Flare - VRU Discharge	127.70	125.20	Flared	12:00 AM	11:43 PM	17.65	Flared more than 8 HRs	Tanks/VRTs are being purged th
6/18/2024	Amen Corner	LP Flare Estimation Sheet - Tank Pressure, Valve Status	80.69	79.11	Flared	10:14 AM	4:47 PM	6.47	Oxygen	Sales blowers were kept off to a
6/19/2024	Amen Corner	HP Flare - VRU Discharge	129.35	126.81	Flared	12:00 AM	11:36 PM	21.41	Flared more than 8 HRs	Tanks/VRTs are being purged th
6/19/2024	Red Bud	HP Flare - VRU Discharge	289.13	283.46	Flared	1:55 AM	8:39 AM	6.75	Oxygen	Sample probe on the stationary
6/20/2024	Nan 1.5N	HP Graph Tags - TankLogix	638.94	626.41	Flared	8:33 AM	11:35 AM	1.13	Emergency	Line pressure was high across th



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State of New Mexico
Energy, Minerals and Natural Resources
Oil Conservation Division
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Santa Fe, NM 87505

DEFINITIONS

Action 357875

DEFINITIONS

Operator: AMEREDEV OPERATING, LLC 2901 Via Fortuna Austin, TX 78746	OGRID: 372224
	Action Number: 357875
	Action Type: [C-129] Venting and/or Flaring (C-129)

DEFINITIONS

For the sake of brevity and completeness, please allow for the following in all groups of questions and for the rest of this application: • this application's operator, hereinafter "this operator"; • venting and/or flaring, hereinafter "vent or flare"; • any notification or report(s) of the C-129 form family, hereinafter "any C-129 forms"; • the statements in (and/or attached to) this, hereinafter "the statements in this"; • and the past tense will be used in lieu of mixed past/present tense questions and statements.
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QUESTIONS

Action 357875

QUESTIONS

Operator: AMEREDEV OPERATING, LLC 2901 Via Fortuna Austin, TX 78746	OGRID: 372224
	Action Number: 357875
	Action Type: [C-129] Venting and/or Flaring (C-129)

QUESTIONS

Prerequisites Any messages presented in this section, will prevent submission of this application. Please resolve these issues before continuing with the rest of the questions.	
Incident Well	Unavailable.
Incident Facility	[fAPP2203856979] NANDINA

Determination of Reporting Requirements Answer all questions that apply. The Reason(s) statements are calculated based on your answers and may provide additional guidance.	
Was this vent or flare caused by an emergency or malfunction	No
Did this vent or flare last eight hours or more cumulatively within any 24-hour period from a single event	Yes
Is this considered a submission for a vent or flare event	Yes, minor venting and/or flaring of natural gas.
An operator shall file a form C-141 instead of a form C-129 for a release that, includes liquid during venting and/or flaring that is or may be a major or minor release under 19.15.29.7 NMAC.	
Was there at least 50 MCF of natural gas vented and/or flared during this event	Yes
Did this vent or flare result in the release of ANY liquids (not fully and/or completely flared) that reached (or has a chance of reaching) the ground, a surface, a watercourse, or otherwise, with reasonable probability, endanger public health, the environment or fresh water	No
Was the vent or flare within an incorporated municipal boundary or withing 300 feet from an occupied permanent residence, school, hospital, institution or church in existence	No

Equipment Involved	
Primary Equipment Involved	Not answered.
Additional details for Equipment Involved. Please specify	Not answered.

Representative Compositional Analysis of Vented or Flared Natural Gas Please provide the mole percent for the percentage questions in this group.	
Methane (CH4) percentage	77
Nitrogen (N2) percentage, if greater than one percent	1
Hydrogen Sulfide (H2S) PPM, rounded up	0
Carbon Dioxide (C02) percentage, if greater than one percent	1
Oxygen (02) percentage, if greater than one percent	0
If you are venting and/or flaring because of Pipeline Specification, please provide the required specifications for each gas.	
Methane (CH4) percentage quality requirement	Not answered.
Nitrogen (N2) percentage quality requirement	Not answered.
Hydrogen Sufide (H2S) PPM quality requirement	Not answered.
Carbon Dioxide (C02) percentage quality requirement	Not answered.
Oxygen (02) percentage quality requirement	Not answered.

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QUESTIONS, Page 2

Action 357875

QUESTIONS (continued)

Operator: AMEREDEV OPERATING, LLC 2901 Via Fortuna Austin, TX 78746	OGRID: 372224
	Action Number: 357875
	Action Type: [C-129] Venting and/or Flaring (C-129)

QUESTIONS

Date(s) and Time(s)	
Date vent or flare was discovered or commenced	06/03/2024
Time vent or flare was discovered or commenced	12:02 AM
Time vent or flare was terminated	11:54 PM
Cumulative hours during this event	11

Measured or Estimated Volume of Vented or Flared Natural Gas	
Natural Gas Vented (Mcf) Details	Not answered.
Natural Gas Flared (Mcf) Details	Cause: Commissioning to Purge Tank (Any) Natural Gas Flared Released: 89 Mcf Recovered: 0 Mcf Lost: 89 Mcf.
Other Released Details	Not answered.
Additional details for Measured or Estimated Volume(s). Please specify	Not answered.
Is this a gas only submission (i.e. only significant Mcf values reported)	Yes, according to supplied volumes this appears to be a "gas only" report.

Venting or Flaring Resulting from Downstream Activity	
Was this vent or flare a result of downstream activity	No
Was notification of downstream activity received by this operator	Not answered.
Downstream OGRID that should have notified this operator	Not answered.
Date notified of downstream activity requiring this vent or flare	Not answered.
Time notified of downstream activity requiring this vent or flare	Not answered.

Steps and Actions to Prevent Waste	
For this event, this operator could not have reasonably anticipated the current event and it was beyond this operator's control.	True
Please explain reason for why this event was beyond this operator's control	Sales blowers were switched off since tanks had O2 in them, so flare blower was purging the tanks through the LP Flare.
Steps taken to limit the duration and magnitude of vent or flare	We choked back the wells to limit production.
Corrective actions taken to eliminate the cause and reoccurrence of vent or flare	We establish EHS Control Room to tackle flaring issues as soon as possible.

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ACKNOWLEDGMENTS

Action 357875

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Operator: AMEREDEV OPERATING, LLC 2901 Via Fortuna Austin, TX 78746	OGRID: 372224
	Action Number: 357875
	Action Type: [C-129] Venting and/or Flaring (C-129)

ACKNOWLEDGMENTS

☒	I acknowledge that I am authorized to submit a <i>Venting and/or Flaring</i> (C-129) report on behalf of this operator and understand that this report can be a complete C-129 submission per 19.15.27.8 and 19.15.28.8 NMAC.
☒	I acknowledge that upon submitting this application, I will be creating a new incident file (assigned to this operator) to track any C-129 forms, pursuant to 19.15.27.7 and 19.15.28.8 NMAC and understand that this submission meets the notification requirements of Paragraph (1) of Subsection G and F respectively.
☒	I hereby certify the statements in this report are true and correct to the best of my knowledge and acknowledge that any false statement may be subject to civil and criminal penalties under the Oil and Gas Act.
☒	I acknowledge that the acceptance of any C-129 forms by the OCD does not relieve this operator of liability should their operations have failed to adequately investigate, report, and remediate contamination that poses a threat to groundwater, surface water, human health, or the environment.
☒	I acknowledge that OCD acceptance of any C-129 forms does not relieve this operator of responsibility for compliance with any other applicable federal, state, or local laws and/or regulations.

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CONDITIONS

Action 357875

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	Action Number: 357875
	Action Type: [C-129] Venting and/or Flaring (C-129)

CONDITIONS

Created By	Condition	Condition Date
cscayu	If the information provided in this report requires an amendment, submit a [C-129] Amend Venting and/or Flaring Incident (C-129A), utilizing your incident number from this event.	6/26/2024