



2030 Afton Place
Farmington, NM 87401
(505) 325-6622

Analysis No: HM20230012
Cust No: 33700-10060

Well/Lease Information

Customer Name:	HARVEST MIDSTREAM	Source:	Station Inlet
Well Name:	Trunk S Inlet La Jara Station	Well Flowing:	Y
County/State:		Pressure:	200 PSIG
Location:		Flow Temp:	51.5 DEG. F
Lease/PA/CA:		Ambient Temp:	40 DEG. F
Formation:		Flow Rate:	190 MCF/D
Cust. Stn. No.:		Sample Method:	Purge & Fill
		Sample Date:	03/31/2023
		Sample Time:	12.30 PM
		Sampled By:	Ryan Antonson
		Sampled by (CO):	Harvest
Heat Trace:	N		
Remarks:	Calculated Molecular Weight: 20.6117		

Analysis

Component:	Mole%:	Unnormalized %:	**GPM:	*BTU:	*SP Gravity:
Nitrogen	0.5811	0.5876	0.0640	0.00	0.0056
CO2	0.9436	0.9541	0.1620	0.00	0.0143
Methane	81.2007	82.1034	13.8090	820.13	0.4498
Ethane	9.1965	9.2987	2.4670	162.75	0.0955
Propane	4.8690	4.9231	1.3460	122.51	0.0741
Iso-Butane	0.7652	0.7737	0.2510	24.88	0.0154
N-Butane	1.2941	1.3085	0.4090	42.22	0.0260
Neopentane 2,2 dmc3	0.1029	0.1040	0.0400	4.10	0.0026
I-Pentane	0.4047	0.4092	0.1480	16.19	0.0101
N-Pentane	0.2955	0.2988	0.1070	11.85	0.0074
Neohexane	0.0097	N/R	0.0040	0.46	0.0003
2-3-Dimethylbutane	0.0105	N/R	0.0040	0.50	0.0003
Cyclopentane	0.0109	N/R	0.0030	0.41	0.0003
2-Methylpentane	0.0707	N/R	0.0290	3.36	0.0021
3-Methylpentane	0.0236	N/R	0.0100	1.12	0.0007
C6	0.0689	0.3506	0.0280	3.28	0.0021
Methylcyclopentane	0.0458	N/R	0.0160	2.06	0.0013
Benzene	0.0082	N/R	0.0020	0.31	0.0002
Cyclohexane	0.0189	N/R	0.0060	0.85	0.0005
2-Methylhexane	0.0059	N/R	0.0030	0.32	0.0002
3-Methylhexane	0.0064	N/R	0.0030	0.35	0.0002
2-2-4-Trimethylpentane	0.0013	N/R	0.0010	0.08	0.0001
i-heptanes	0.0042	N/R	0.0020	0.22	0.0001
Heptane	0.0154	N/R	0.0070	0.85	0.0005

Methylcyclohexane	0.0280	N/R	0.0110	1.46	0.0009
Toluene	0.0105	N/R	0.0040	0.47	0.0003
2-Methylheptane	0.0026	N/R	0.0010	0.16	0.0001
4-Methylheptane	0.0012	N/R	0.0010	0.07	0.0000
i-Octanes	0.0006	N/R	0.0000	0.04	0.0000
Octane	0.0022	N/R	0.0010	0.14	0.0001
Ethylbenzene	0.0000	N/R	0.0000	0.00	0.0000
m, p Xylene	0.0001	N/R	0.0000	0.01	0.0000
o Xylene (& 2,2,4 tmc7)	0.0000	N/R	0.0000	0.00	0.0000
i-C9	0.0003	N/R	0.0000	0.02	0.0000
C9	0.0002	N/R	0.0000	0.01	0.0000
i-C10	0.0004	N/R	0.0000	0.03	0.0000
C10	0.0001	N/R	0.0000	0.01	0.0000
i-C11	0.0000	N/R	0.0000	0.00	0.0000
C11	0.0000	N/R	0.0000	0.00	0.0000
C12P	0.0000	N/R	0.0000	0.00	0.0000
Total	100.00	101.112	18.939	1221.20	0.7112

* @ 14.730 PSIA DRY & UNCORRECTED FOR COMPRESSIBILITY

**@ 14.730 PSIA & 60 DEG. F.

COMPRESSIBILITY FACTOR (1/Z):	1.0034	CYLINDER #:	1
BTU/CU.FT IDEAL:	1224.0	CYLINDER PRESSURE:	234 PSIG
BTU/CU.FT (DRY) CORRECTED FOR (1/Z):	1228.2	ANALYSIS DATE:	04/03/2023
BTU/CU.FT (WET) CORRECTED FOR (1/Z):	1206.8	ANALYSIS TIME:	09:58:11 AM
DRY BTU @ 15.025:	1252.8	ANALYSIS RUN BY:	ELAINE MORRISON
REAL SPECIFIC GRAVITY:	0.7134		

GPM, BTU, and SPG calculations as shown above are based on current GPA constants.

GPA Standard: GPA 2286-14

GC: SRI Instruments 8610 Last Cal/Verify: 04/03/2023

GC Method: C12+BTEX Gas



HARVEST MIDSTREAM
WELL ANALYSIS COMPARISON

Lease: Trunk S Inlet La Jara Station

Station Inlet

04/03/2023

Stn. No.:

33700-10060

Mtr. No.:

Smpl Date:	03/31/2023	03/30/2022	03/10/2021	12/29/2020	12/31/2019
Test Date:	04/03/2023	04/01/2022	03/12/2021	12/30/2020	01/07/2020
Run No:	HM20230012	HM20220008	HM2021013	HM200103	HM200001
Nitrogen:	0.5811	0.6092	0.6351	0.5163	1.0688
CO2:	0.9436	1.4474	1.4543	1.7243	1.6565
Methane:	81.2007	81.9238	82.8214	83.1899	82.6372
Ethane:	9.1965	8.6053	8.2657	8.0683	8.0037
Propane:	4.8690	3.9703	4.0453	3.9057	3.8334
I-Butane:	0.7652	0.6762	0.6405	0.6681	0.6777
N-Butane:	1.2941	1.1420	1.0659	1.0702	1.1385
2,2 dmc3:	0.1029	0.2860	0.0000	0.0000	0.0017
I-Pentane:	0.4047	0.3765	0.3604	0.3281	0.3515
N-Pentane:	0.2955	0.3090	0.2718	0.2304	0.2576
Neohexane:	0.0097	0.0156	0.0093	0.0136	0.0009
2-3-	0.0105	0.0194	0.0111	0.0109	0.0094
Cyclopentane:	0.0109	0.0201	0.0116	0.0113	0.0098
2-Methylpentane:	0.0707	0.1304	0.0749	0.0731	0.0635
3-Methylpentane:	0.0236	0.0411	0.0275	0.0297	0.0282
C6:	0.0689	0.1313	0.0784	0.0089	0.0702
Methylcyclopentane:	0.0458	0.0876	0.0531	0.0483	0.0426
Benzene:	0.0082	0.0140	0.0097	0.0081	0.0096
Cyclohexane:	0.0189	0.0327	0.0236	0.0208	0.0237
2-Methylhexane:	0.0059	0.0082	0.0078	0.0073	0.0091
3-Methylhexane:	0.0000	0.0000	0.0000	0.0000	0.0000
2-2-4-	0.0013	0.0035	0.0026	0.0014	0.0024
i-heptanes:	0.0042	0.0064	0.0052	0.0044	0.0059
Heptane:	0.0154	0.0272	0.0208	0.0144	0.0210
Methylcyclohexane:	0.0280	0.0509	0.0408	0.0252	0.0379
Toluene:	0.0105	0.0192	0.0162	0.0064	0.0113
2-Methylheptane:	0.0026	0.0088	0.0076	0.0025	0.0056
4-Methylheptane:	0.0012	0.0043	0.0035	0.0013	0.0028
i-Octanes:	0.0006	0.0044	0.0038	0.0007	0.0025
Octane:	0.0022	0.0091	0.0092	0.0021	0.0052
Ethylbenzene:	0.0000	0.0000	0.0005	0.0001	0.0022
m, p Xylene:	0.0001	0.0060	0.0093	0.0008	0.0002
o Xylene (& 2,2,4	0.0000	0.0000	0.0011	0.0001	0.0002
i-C9:	0.0003	0.0007	0.0011	0.0001	0.0004
C9:	0.0002	0.0011	0.0019	0.0002	0.0005
i-C10:	0.0004	0.0002	0.0002	0.0001	0.0000
C10:	0.0001	0.0002	0.0004	0.0000	0.0000
i-C11:	0.0000	0.0000	0.0000	0.0000	0.0000
C11:	0.0000	0.0000	0.0000	0.0001	0.0000
C12P:	0.0000	0.0001	0.0000	0.0000	0.0000
BTU:	1228.2	1216.1	1193.5	1181.1	1181.0
GPM:	18.9180	18.7790	18.7110	18.6350	18.6310
SPG:	0.7134	0.7144	0.7001	0.6951	0.6999



10 PSIG Precharge

C6+ ☐ C9+ ☐ C12+ ☐ C12+ BTEX ☐ Helium ☐Other Extended gas sample Date 3/31/2023Sampled By: (Co.) Harvest MidstreamTime 12:30☐ AM☒ PMSampled by: (Person) Ryan AntonsonWell Flowing: ☒ Yes ☐ NoCompany: Harvest MidstreamHeat Trace: ☐ Yes ☒ NoWell Name: La Jara Station InletFlow Pressure (PSIG): 200

Location:

Flow Temp (°F): 51.5°County/State: Rio ArribaAmbient Temp (°F): 40°

Formation:

Flow Rate (MCF/D): 190Source: ☐ Meter Run ☐ Tubing ☐ Casing ☐ Bradenhead ☒ Other Station InletSample Type: ☒ Spot ☐ Composite Sample Method: ☒ Purge & Fill ☐ Other

Meter Number:

Cylinder Number: 1Contact: Harvest Midstream EnvironmentalRemarks: 33700-10060 HM 20230012

Line Leak Calc

Orifice Diameter	2.185 inches
Pressure	418 psig
Time/date Discovered	1/27/2024 14:41
Time/date Isolated	1/27/2024 17:12
Total Hours Blown	2.52 hours
Area of Orifice	3.750 sq. inches

Lost Gas From Line Leak 5,022 Mcf

Blowdown Calc

Length	92,506 feet
Actual Pipe OD	30.000 inches
Wall Thickness	0.281 inches
Pressure	194 psig

Lost Gas From Blowdown 5,785 Mcf

Total Gas Loss 10,808 Mcf

Notes:

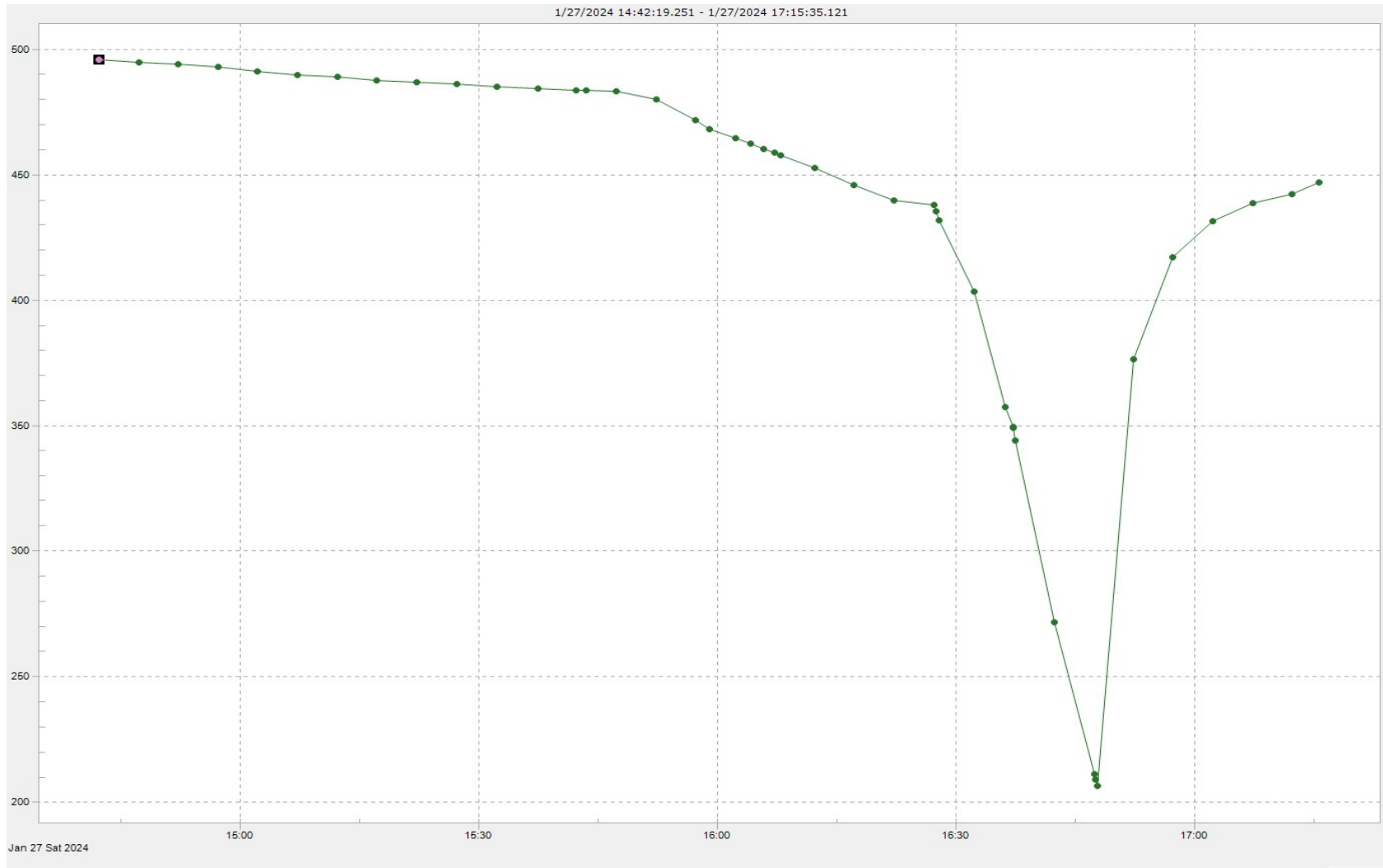
Lost Gas=(Orifice Diameter)²*Pressure*Time Blown

Lost Gas=(Inside Diameter)²*Pressure*Length*0.372/1000000

The pressure used to calculate the line leak volume is based on an average pressure between the start of the release to the minimum pressure as shown on the graph.

The pressure used to calculate the blowdown volume is the minimum line pressure as shown on the graph.

The meter location is the Kutz to Ignacio Offload Meter 4609130 (pressure values recorded in absolute)



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District IV
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Phone:(505) 476-3470 Fax:(505) 476-3462

State of New Mexico
Energy, Minerals and Natural Resources
Oil Conservation Division
1220 S. St Francis Dr.
Santa Fe, NM 87505

DEFINITIONS

Action 310345

DEFINITIONS

Operator: Harvest Four Corners, LLC 1755 Arroyo Dr Bloomfield, NM 87413	OGRID: 373888
	Action Number: 310345
	Action Type: [C-129] Amend Venting and/or Flaring (C-129A)

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: <ul style="list-style-type: none">• 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

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Operator: Harvest Four Corners, LLC 1755 Arroyo Dr Bloomfield, NM 87413	OGRID: 373888
	Action Number: 310345
	Action Type: [C-129] Amend Venting and/or Flaring (C-129A)

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 ID (n#)	Unavailable.
Incident Name	Unavailable.
Incident Type	Flare
Incident Status	Unavailable.
Incident Facility	[fAPP2123052765] HARVEST FOUR CORNERS GATHER SYSTEM
Only valid Vent, Flare or Vent with Flaring incidents (selected above in the Application Details section) that are assigned to your current operator can be amended with this C-129A application.	

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	Yes
Did this vent or flare last eight hours or more cumulatively within any 24-hour period from a single event	No
Is this considered a submission for a vent or flare event	Yes, major 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 within 300 feet from an occupied permanent residence, school, hospital, institution or church in existence	No

Equipment Involved	
Primary Equipment Involved	Pipeline (Any)
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	81
Nitrogen (N2) percentage, if greater than one percent	1
Hydrogen Sulfide (H2S) PPM, rounded up	4
Carbon Dioxide (CO2) percentage, if greater than one percent	1
Oxygen (O2) 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 Sulfide (H2S) PPM quality requirement	Not answered.
Carbon Dioxide (CO2) percentage quality requirement	Not answered.
Oxygen (O2) percentage quality requirement	Not answered.

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QUESTIONS, Page 2

Action 310345

QUESTIONS (continued)

Operator: Harvest Four Corners, LLC 1755 Arroyo Dr Bloomfield, NM 87413	OGRID: 373888
	Action Number: 310345
	Action Type: [C-129] Amend Venting and/or Flaring (C-129A)

QUESTIONS

Date(s) and Time(s)	
Date vent or flare was discovered or commenced	01/27/2024
Time vent or flare was discovered or commenced	02:21 PM
Time vent or flare was terminated	05:12 PM
Cumulative hours during this event	3

Measured or Estimated Volume of Vented or Flared Natural Gas	
Natural Gas Vented (Mcf) Details	Cause: Other Pipeline (Any) Natural Gas Vented Released: 10,808 Mcf Recovered: 0 Mcf Lost: 10,808 Mcf.
Natural Gas Flared (Mcf) Details	Not answered.
Other Released Details	Cause: Other (Specify) Released: 0 (Unknown Released Amount) Recovered: 0 Lost: 0 .
Additional details for Measured or Estimated Volume(s). Please specify	Pipeline cracked due to pipe strain
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	
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	This event was caused by the pipeline cracking. This pipeline has been in operation for years with no issues. A smart pig was launched through the pipeline within the last couple of years and no problems were detected. The crack could have been caused by the ground or pipeline shifting after it was buried. Harvest could not have anticipated this event
Steps taken to limit the duration and magnitude of vent or flare	Harvest immediately dispatched personnel after being notified of potential line leak. After confirming the leak, Harvest identified the strategy that would allow them to isolate and stop the leak with the least amount of gas loss. The plan was executed, and the leak was stopped within approximately 2.5 hours
Corrective actions taken to eliminate the cause and reoccurrence of vent or flare	The cracked section of pipe was repaired and the pipe was placed in a position to reduce strain.

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ACKNOWLEDGMENTS

Action 310345

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Operator: Harvest Four Corners, LLC 1755 Arroyo Dr Bloomfield, NM 87413	OGRID:
	373888
	Action Number:
	310345
Action Type:	
[C-129] Amend Venting and/or Flaring (C-129A)	

ACKNOWLEDGMENTS

<input checked="" type="checkbox"/>	I acknowledge that with this application I will be amending an existing incident file (assigned to this operator) for a vent or flare event, pursuant to 19.15.27 and 19.15.28 NMAC.
<input checked="" type="checkbox"/>	I acknowledge that amending an incident file does not replace original submitted application(s) or information and understand that any C-129 forms submitted to the OCD will be logged and stored as public record.
<input checked="" type="checkbox"/>	I hereby certify the statements in this amending 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.
<input checked="" type="checkbox"/>	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.
<input checked="" type="checkbox"/>	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 310345

CONDITIONS

Operator: Harvest Four Corners, LLC 1755 Arroyo Dr Bloomfield, NM 87413	OGRID: 373888
	Action Number: 310345
	Action Type: [C-129] Amend Venting and/or Flaring (C-129A)

CONDITIONS

Created By	Condition	Condition Date
oakley.hayes	If the information provided in this report requires further amendment(s), submit a [C-129] Amend Venting and/or Flaring Incident (C-129A), utilizing your incident number from this event.	2/1/2024