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

Analysis No: HM2021096
Cust No: 33700-10325

Well/Lease Information

Customer Name:	HARVEST MIDSTREAM	Source:	Dehy Inlet
Well Name:	Middle Mesa CDP	Well Flowing:	
County/State:	San Juan NM	Pressure:	371 PSIG
Location:		Flow Temp:	75 DEG. F
Lease/PA/CA:		Ambient Temp:	56 DEG. F
Formation:		Flow Rate:	24.9 MCF/D
Cust. Stn. No.:		Sample Method:	Purge & Fill
		Sample Date:	11/02/2021
		Sample Time:	11.15 AM
		Sampled By:	Daniel Lovato
Heat Trace:	N	Sampled by (CO):	Harvest
Remarks:	Calculated Molecular Weight = 19.8529		

Analysis

Component:	Mole%:	Unormalized %:	**GPM:	*BTU:	*SP Gravity:
Nitrogen	0.3710	0.3655	0.0410	0.00	0.0036
CO2	10.0312	9.8826	1.7160	0.00	0.1524
Methane	85.3490	84.0843	14.5030	862.02	0.4727
Ethane	2.6976	2.6576	0.7230	47.74	0.0280
Propane	0.9435	0.9295	0.2610	23.74	0.0144
Iso-Butane	0.1610	0.1586	0.0530	5.24	0.0032
N-Butane	0.2116	0.2085	0.0670	6.90	0.0042
Neopentane 2,2 dmc3	0.0000	0.0000	0.0000	0.00	0.0000
I-Pentane	0.0695	0.0685	0.0250	2.78	0.0017
N-Pentane	0.0512	0.0504	0.0190	2.05	0.0013
Neohexane	0.0020	N/R	0.0010	0.09	0.0001
2-3-Dimethylbutane	0.0023	N/R	0.0010	0.11	0.0001
Cyclopentane	0.0024	N/R	0.0010	0.09	0.0001
2-Methylpentane	0.0155	N/R	0.0060	0.74	0.0005
3-Methylpentane	0.0063	N/R	0.0030	0.30	0.0002
C6	0.0173	0.1127	0.0070	0.82	0.0005
Methylcyclopentane	0.0126	N/R	0.0040	0.57	0.0004
Benzene	0.0020	N/R	0.0010	0.07	0.0001
Cyclohexane	0.0083	N/R	0.0030	0.37	0.0002
2-Methylhexane	0.0019	N/R	0.0010	0.10	0.0001
3-Methylhexane	0.0028	N/R	0.0010	0.15	0.0001
2-2-4-Trimethylpentane	0.0008	N/R	0.0000	0.05	0.0000
i-heptanes	0.0015	N/R	0.0010	0.08	0.0001
Heptane	0.0066	N/R	0.0030	0.36	0.0002

Methylcyclohexane	0.0154	N/R	0.0060	0.80	0.0005
Toluene	0.0047	N/R	0.0020	0.21	0.0001
2-Methylheptane	0.0026	N/R	0.0010	0.16	0.0001
4-Methylheptane	0.0011	N/R	0.0010	0.07	0.0000
i-Octanes	0.0013	N/R	0.0010	0.08	0.0001
Octane	0.0032	N/R	0.0020	0.20	0.0001
Ethylbenzene	0.0001	N/R	0.0000	0.01	0.0000
m, p Xylene	0.0021	N/R	0.0010	0.11	0.0001
o Xylene (& 2,2,4 tmc7)	0.0002	N/R	0.0000	0.01	0.0000
i-C9	0.0003	N/R	0.0000	0.02	0.0000
C9	0.0006	N/R	0.0000	0.04	0.0000
i-C10	0.0000	N/R	0.0000	0.00	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	98.518	17.455	956.10	0.6852

* @ 14.730 PSIA DRY & UNCORRECTED FOR COMPRESSIBILITY
**@ 14.730 PSIA & 60 DEG. F.

COMPRESSIBLITY FACTOR (1/Z):	1.0026	CYLINDER #:	05
BTU/CU.FT IDEAL:	958.3	CYLINDER PRESSURE:	371 PSIG
BTU/CU.FT (DRY) CORRECTED FOR (1/Z):	960.8	ANALYSIS DATE:	11/11/2021
BTU/CU.FT (WET) CORRECTED FOR (1/Z):	944.1	ANALYIS TIME:	04:20:23 AM
DRY BTU @ 15.025:	980.0	ANALYSIS RUN BY:	ELAINE MORRISON
REAL SPECIFIC GRAVITY:	0.6868		

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: 11/12/2021**
GC Method: C12+BTEX Gas

HARVEST MIDSTREAM

WELL ANALYSIS COMPARISON

Lease: Middle Mesa CDP Dehy Inlet 11/12/2021

Stn. No.: 33700-10325

Mtr. No.:

Smpl Date:	11/02/2021	05/05/2021	03/19/2021	03/11/2021	03/02/2021	08/17/2020	05/01/2020
Test Date:	11/11/2021	05/07/2021	03/24/2021	03/12/2021	03/03/2021	08/20/2020	05/06/2020
Run No:	HM2021096	HM2021048	HM2021016	HM2021014	HM210010	HM200074	HM200036
Nitrogen:	0.3710	0.1166	0.0957	0.0900	0.0906	0.0939	0.0983
CO2:	10.0312	10.2854	11.2308	10.7938	10.5864	9.7167	9.9283
Methane:	85.3490	84.9532	85.4021	85.4235	85.6900	85.8626	86.2433
Ethane:	2.6976	2.7517	2.1313	2.3951	2.3291	2.7940	2.3422
Propane:	0.9435	1.2540	0.7089	0.8173	0.7877	0.9951	0.8245
I-Butane:	0.1610	0.1686	0.1125	0.1256	0.1466	0.1710	0.1374
N-Butane:	0.2116	0.2291	0.1449	0.1669	0.1864	0.2161	0.1831
2,2 dmc3:	0.0000	0.0019	0.0000	0.0000	0.0000	0.0017	0.0000
I-Pentane:	0.0695	0.0810	0.0513	0.0586	0.0528	0.0512	0.0627
N-Pentane:	0.0512	0.0579	0.0386	0.0444	0.0369	0.0323	0.0484
Neohexane:	0.0020	0.0020	0.0017	0.0015	0.0014	0.0010	0.0003
2-3-Cyclopentane:	0.0023	0.0022	0.0017	0.0017	0.0018	0.0007	0.0021
2-Methylpentane:	0.0024	0.0023	0.0017	0.0018	0.0019	0.0007	0.0022
3-Methylpentane:	0.0155	0.0147	0.0113	0.0114	0.0120	0.0046	0.0144
C6:	0.0063	0.0052	0.0039	0.0039	0.0045	0.0016	0.0055
Methylcyclopentane:	0.0173	0.0162	0.0129	0.0130	0.0141	0.0045	0.0165
Benzene:	0.0126	0.0118	0.0098	0.0096	0.0106	0.0034	0.0115
Cyclohexane:	0.0020	0.0017	0.0014	0.0013	0.0016	0.0006	0.0016
2-Methylhexane:	0.0083	0.0078	0.0064	0.0060	0.0070	0.0027	0.0084
3-Methylhexane:	0.0019	0.0019	0.0015	0.0014	0.0018	0.0007	0.0025
2-2-4-i-heptanes:	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Heptane:	0.0008	0.0007	0.0006	0.0006	0.0007	0.0005	0.0010
Methylcyclohexane:	0.0015	0.0013	0.0010	0.0010	0.0013	0.0005	0.0016
Toluene:	0.0066	0.0059	0.0052	0.0049	0.0065	0.0034	0.0085
2-Methylheptane:	0.0154	0.0128	0.0116	0.0114	0.0142	0.0104	0.0195
4-Methylheptane:	0.0047	0.0038	0.0033	0.0041	0.0054	0.0063	0.0061
i-Octanes:	0.0026	0.0019	0.0018	0.0019	0.0018	0.0034	0.0055
Octane:	0.0011	0.0009	0.0008	0.0009	0.0009	0.0012	0.0024
Ethylbenzene:	0.0013	0.0010	0.0009	0.0011	0.0007	0.0032	0.0034
m, p Xylene:	0.0032	0.0021	0.0020	0.0022	0.0019	0.0054	0.0084
o Xylene (& 2,2,4	0.0001	0.0001	0.0001	0.0001	0.0001	0.0004	0.0002
i-C9:	0.0021	0.0012	0.0014	0.0019	0.0008	0.0052	0.0044
C9:	0.0002	0.0001	0.0002	0.0002	0.0001	0.0005	0.0002
i-C10:	0.0003	0.0002	0.0002	0.0003	0.0001	0.0009	0.0005
C10:	0.0006	0.0004	0.0004	0.0005	0.0002	0.0022	0.0022
i-C11:	0.0000	0.0002	0.0000	0.0000	0.0000	0.0002	0.0000
C11:	0.0001	0.0001	0.0001	0.0001	0.0000	0.0001	0.0001
C12P:	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
	0.0000	0.0001	0.0000	0.0000	0.0000	0.0000	0.0000
	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
BTU:	960.8	966.5	938.8	948.1	950.1	965.8	959.5
GPM:	17.4590	17.5150	17.3640	17.4070	17.4040	17.4700	17.4220
SPG:	0.6868	0.6918	0.6890	0.6879	0.6859	0.6819	0.6813

HARVEST MIDSTREAM

WELL ANALYSIS COMPARISON

Lease:	Middle Mesa CDP	Dehy Inlet	11/12/2021
Stn. No.:			33700-10325
Mtr. No.:			

	09/19/2019
	09/23/2019
	HM190060
	0.1029
	9.5490
	86.4319
	2.3942
	1.0394
	0.1328
	0.1748
	0.0000
	0.0591
	0.0422
	0.0002
	0.0017
	0.0018
	0.0117
	0.0041
	0.0124
	0.0087
	0.0011
	0.0058
	0.0014
	0.0000
	0.0004
	0.0009
	0.0044
	0.0097
	0.0024
	0.0014
	0.0006
	0.0006
	0.0016
	0.0001
	0.0007
	0.0001
	0.0001
	0.0002
	0.0000
	0.0000
	0.0000
	0.0000
	0.0000
	963.8
	17.4280
	0.6780

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

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GAS ANALYSIS SERVICE

C6+ ☐ C9+ ☐ C12+ BTEX ☑ Helium ☐
N2 Flowback ☐ Sulfurs ☐ Ext. Liquid ☐
Other _____

Date 11/2/21
Time 1115 ☐AM ☐PM

Sampled By:(Co.) Harvest Midstream
Sampled by:(Person) Daniel Lavoie
Company: _____
Well Name: _____
Lease#: Middle Mesa CDP
County: San Juan Formation: _____
State: N.M Location: _____
Source: ☐ Meter Run ☐ Tubing ☐ Casing ☐ Bradenhead ☑ Other Delta Inlet
Sample Type: ☐ Spot ☐ Composite Sample Method: ☑ Purge & Fill ☐ Other _____
Meter Number: _____
Contact: Environmental Group
Remarks: 33700-10325 HM 2021096

Well Flowing: ☐ Yes ☐ No
Heat Trace: ☐ Yes ☑ No
Flow Pressure (PSIG): 371
Flow Temp (°F): 75°
Ambient Temp (°F): 56°
Flow Rate (MCF/D): 24.9
Cylinder Number: 05

LINE LEAK OR CONTINUOUS PSV RELEASE CALCULATOR AND REPORTING

FOR USE FOR RELEASE REMAINING UNDER CONSTANT LINE PRESSURE (I.E. PSV RELIEVES)

Fill in Yellow Fields

ASSUMES NO PRESSURE LOSS AS RESULT OF LEAK

ENTERED BY WHOM	DATE	PSI	PORT DIAMETER IN INCHES	TIME IN MINUTES BLOWN	MCF LOST	COMMENTS
	2/27/2022	99.0	4.00	105.00	*3,099.60*	
					3,099.60	

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

DEFINITIONS

Operator: Harvest Four Corners, LLC 1111 Travis Street Houston, TX 77002	OGRID: 373888
	Action Number: 84708
	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:

- 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 84708

QUESTIONS

Operator: Harvest Four Corners, LLC 1111 Travis Street Houston, TX 77002	OGRID: 373888
	Action Number: 84708
	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 Operator	**[373888] Harvest Four Corners, LLC**
Incident Type	**Flare**
Incident Status	**Closure Not Approved**
Incident Well	*Not answered.*
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 addional 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 withing 300 feet from an occupied permanent residence, school, hospital, institution or church in existence	No

Equipment Involved	
Primary Equipment Involved	Valve
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	85
Nitrogen (N2) percentage, if greater than one percent	0
Hydrogen Sulfide (H2S) PPM, rounded up	0
Carbon Dioxide (C02) percentage, if greater than one percent	10
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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State of New Mexico
Energy, Minerals and Natural Resources
Oil Conservation Division
1220 S. St Francis Dr.
Santa Fe, NM 87505

QUESTIONS (continued)

Operator:	OGRID:
Harvest Four Corners, LLC 1111 Travis Street Houston, TX 77002	373888
	Action Number: 84708
	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	02/27/2022
Time vent or flare was discovered or commenced	07:00 AM
Time vent or flare was terminated	08:45 AM
Cumulative hours during this event	2

Measured or Estimated Volume of Vented or Flared Natural Gas	
Natural Gas Vented (Mcf) Details	Cause: Freeze | Valve | Natural Gas Vented | Released: 3,100 Mcf | Recovered: 0 Mcf | Lost: 3,100 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	*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	This release was caused by a freeze on the ESD system. The freeze caused the ESD slam valve to close and the discharge vent valve to open. Harvest could not have reasonably anticipated that the liquids in the gas would freeze the valve and cause this event.
Steps taken to limit the duration and magnitude of vent or flare	After gas control remotely discovered this gas release, Harvest personnel were immediately dispatched to the site. Upon arrival at the site, Harvest personnel closed the venting valve, terminating the gas loss event.
Corrective actions taken to eliminate the cause and reoccurrence of vent or flare	Harvest has insulated the vent valve in an effort to prevent future freezes. Harvest is also in the process of converting venting ESD systems to non-venting SSD systems at the majority of its facilities.

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ACKNOWLEDGMENTS

Operator: Harvest Four Corners, LLC 1111 Travis Street Houston, TX 77002	OGRID: 373888
	Action Number: 84708
	Action Type: [C-129] Amend Venting and/or Flaring (C-129A)

ACKNOWLEDGMENTS

☑	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.
☑	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.
☑	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.
☑	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 84708

CONDITIONS

Operator: Harvest Four Corners, LLC 1111 Travis Street Houston, TX 77002	OGRID: 373888
	Action Number: 84708
	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.	2/28/2022