



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

Analysis No: HM20220019
Cust No: 33700-10475

Well/Lease Information

Customer Name: HARVEST MIDSTREAM
Well Name: 32-8 #3 CDP
County/State: SAN JUAN NM
Location:
Lease/PA/CA:
Formation:
Cust. Stn. No.:

Source: DEHY INLET
Well Flowing:
Pressure: 905 PSIG
Flow Temp: 71 DEG. F
Ambient Temp: 66 DEG. F
Flow Rate: 12.7 MCF/D
Sample Method: Purge & Fill
Sample Date: 04/06/2022
Sample Time: 12.00 PM
Sampled By: DANIEL LOVATO
Sampled by (CO): HARVEST

Heat Trace:

Remarks: Calculated Molecular Weight = 20.6441
Dehy #45 #41891 Inlet

Analysis

Component:	Mole%:	Unnormalized %:	**GPM:	*BTU:	*SP Gravity:
Nitrogen	0.0470	0.0475	0.0050	0.00	0.0005
CO2	15.2958	15.4667	2.6160	0.00	0.2324
Methane	82.9203	83.8466	14.0890	837.49	0.4593
Ethane	1.3527	1.3678	0.3630	23.94	0.0140
Propane	0.2909	0.2941	0.0800	7.32	0.0044
Iso-Butane	0.0359	0.0363	0.0120	1.17	0.0007
N-Butane	0.0296	0.0299	0.0090	0.96	0.0006
Neopentane 2,2 dmc3	0.0000	0.0000	0.0000	0.00	0.0000
I-Pentane	0.0084	0.0085	0.0030	0.34	0.0002
N-Pentane	0.0063	0.0064	0.0020	0.25	0.0002
Neohexane	0.0002	N/R	0.0000	0.01	0.0000
2-3-Dimethylbutane	0.0003	N/R	0.0000	0.01	0.0000
Cyclopentane	0.0003	N/R	0.0000	0.01	0.0000
2-Methylpentane	0.0021	N/R	0.0010	0.10	0.0001
3-Methylpentane	0.0007	N/R	0.0000	0.03	0.0000
C6	0.0018	0.0133	0.0010	0.09	0.0001
Methylcyclopentane	0.0003	N/R	0.0000	0.01	0.0000
Benzene	0.0009	N/R	0.0000	0.03	0.0000
Cyclohexane	0.0007	N/R	0.0000	0.03	0.0000
2-Methylhexane	0.0003	N/R	0.0000	0.02	0.0000
3-Methylhexane	0.0001	N/R	0.0000	0.01	0.0000
2-2-4-Trimethylpentane	0.0001	N/R	0.0000	0.01	0.0000
i-heptanes	0.0002	N/R	0.0000	0.01	0.0000
Heptane	0.0008	N/R	0.0000	0.04	0.0000

Methylcyclohexane	0.0016	N/R	0.0010	0.08	0.0001
Toluene	0.0009	N/R	0.0000	0.04	0.0000
2-Methylheptane	0.0003	N/R	0.0000	0.02	0.0000
4-Methylheptane	0.0002	N/R	0.0000	0.01	0.0000
i-Octanes	0.0001	N/R	0.0000	0.01	0.0000
Octane	0.0004	N/R	0.0000	0.02	0.0000
Ethylbenzene	0.0000	N/R	0.0000	0.00	0.0000
m, p Xylene	0.0003	N/R	0.0000	0.02	0.0000
o Xylene (& 2,2,4 tmc7)	0.0001	N/R	0.0000	0.01	0.0000
i-C9	0.0001	N/R	0.0000	0.01	0.0000
C9	0.0001	N/R	0.0000	0.01	0.0000
i-C10	0.0001	N/R	0.0000	0.01	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	101.117	17.182	872.12	0.7127

* @ 14.730 PSIA DRY & UNCORRECTED FOR COMPRESSIBILITY

**@ 14.730 PSIA & 60 DEG. F.

COMPRESSIBILITY FACTOR (1/Z):	1.0025	CYLINDER #:	08
BTU/CU.FT IDEAL:	874.1	CYLINDER PRESSURE:	902 PSIG
BTU/CU.FT (DRY) CORRECTED FOR (1/Z):	876.3	ANALYSIS DATE:	04/13/2022
BTU/CU.FT (WET) CORRECTED FOR (1/Z):	861.1	ANALYSIS TIME:	12:31:41 PM
DRY BTU @ 15.025:	893.8	ANALYSIS RUN BY:	PATRICIA KING
REAL SPECIFIC GRAVITY:	0.7142		

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: 04/18/2022

GC Method: C12+BTEX Gas



HARVEST MIDSTREAM
WELL ANALYSIS COMPARISON

Lease: 32-8 #3 CDP

DEHY INLET

04/18/2022

Stn. No.:

33700-10475

Mtr. No.:

Smpl Date:	04/06/2022	05/04/2021	05/01/2020
Test Date:	04/13/2022	05/06/2021	05/06/2020
Run No:	HM20220019	HM2021043	HM200035
Nitrogen:	0.0470	0.0361	0.0625
CO2:	15.2958	16.1543	14.9424
Methane:	82.9203	82.9525	84.0623
Ethane:	1.3527	0.7093	0.7624
Propane:	0.2909	0.1088	0.1354
I-Butane:	0.0359	0.0147	0.0155
N-Butane:	0.0296	0.0191	0.0170
2,2 dmc3:	0.0000	0.0000	0.0000
I-Pentane:	0.0084	0.0045	0.0016
N-Pentane:	0.0063	0.0008	0.0009
Neohexane:	0.0002	0.0000	0.0000
2-3-	0.0003	0.0000	0.0000
Cyclopentane:	0.0003	0.0000	0.0000
2-Methylpentane:	0.0021	0.0000	0.0000
3-Methylpentane:	0.0007	0.0000	0.0000
C6:	0.0018	0.0000	0.0000
Methylcyclopentane:	0.0003	0.0000	0.0000
Benzene:	0.0009	0.0000	0.0000
Cyclohexane:	0.0007	0.0000	0.0000
2-Methylhexane:	0.0003	0.0000	0.0000
3-Methylhexane:	0.0000	0.0000	0.0000
2-2-4-	0.0001	0.0000	0.0000
i-heptanes:	0.0002	0.0000	0.0000
Heptane:	0.0008	0.0000	0.0000
Methylcyclohexane:	0.0016	0.0000	0.0000
Toluene:	0.0009	0.0000	0.0000
2-Methylheptane:	0.0003	0.0000	0.0000
4-Methylheptane:	0.0002	0.0000	0.0000
i-Octanes:	0.0001	0.0000	0.0000
Octane:	0.0004	0.0000	0.0000
Ethylbenzene:	0.0000	0.0000	0.0000
m, p Xylene:	0.0003	0.0000	0.0000
o Xylene (& 2,2,4	0.0001	0.0000	0.0000
i-C9:	0.0001	0.0000	0.0000
C9:	0.0001	0.0000	0.0000
i-C10:	0.0001	0.0000	0.0000
C10:	0.0001	0.0000	0.0000
i-C11:	0.0000	0.0000	0.0000
C11:	0.0000	0.0000	0.0000
C12P:	0.0000	0.0000	0.0000
BTU:	876.3	858.5	871.3
GPM:	17.1850	17.0950	17.0980
SPG:	0.7142	0.7166	0.7054



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

Date 4/6/22

Sampled By: (Co.)

Harvest MidstreamTime 1200☐ AM
☒ PM

Sampled by: (Person)

Daniel LovatoWell Flowing: ☐ Yes ☐ No

Company: _____

Heat Trace: ☐ Yes ☐ No

Well Name: _____

Flow Pressure (PSIG): 905#Lease#: 32-8 #3 CDPFlow Temp (°F): 71°County: San Juan

Formation: _____

Ambient Temp (°F): 66°State: N.M.Location: 32-8 #3Flow Rate (MCF/D): 12.7Source: ☐ Meter Run ☐ Tubing ☐ Casing ☐ Bradenhead ☒ OtherDEH/4 5#41891 InletSample Type: ☒ Spot ☐ CompositeSample Method: ☒ Purge & Fill ☐ Other

Meter Number: _____

Cylinder Number: 08Contact: Environmental Dept #Remarks: 12.7 mcf site flow, 6.3 mcf through DEH33700 - 10475HM 20220019

Line Leak Calc

Orifice Diameter	0.446 inches
Pressure	126 psig
Time/date Discovered	8/30/2022 13:13
Time/date Isolated	8/31/2022 16:00
Total Hours Blown	26.78 hours
Area of Orifice	0.156 sq. inches

Lost Gas From Line Leak**671.282 Mcf**

*opening was approximated as a circular opening with equivalent square area for calculation purposes

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

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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

Action 143428

DEFINITIONS

Operator: Harvest Four Corners, LLC 1111 Travis Street Houston, TX 77002	OGRID: 373888
	Action Number: 143428
	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

Action 143428

QUESTIONS

Operator: Harvest Four Corners, LLC 1111 Travis Street Houston, TX 77002	OGRID: 373888
	Action Number: 143428
	Action Type: [C-129] Amend Venting and/or Flaring (C-129A)

QUESTIONS

Prerequisites <i>Any messages presented in this section, will prevent submission of this application. Please resolve these issues before continuing with the rest of the questions.</i>	
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 <i>Answer all questions that apply. The Reason(s) statements are calculated based on your answers and may provide additional guidance.</i>	
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	Yes
Is this considered a submission for a vent or flare event	Yes, minor venting and/or flaring of natural gas.
<i>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.</i>	
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	Pipeline (Any)
Additional details for Equipment Involved. Please specify	Not answered.

Representative Compositional Analysis of Vented or Flared Natural Gas <i>Please provide the mole percent for the percentage questions in this group.</i>	
Methane (CH4) percentage	83
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	15
Oxygen (O2) percentage, if greater than one percent	0
<i>If you are venting and/or flaring because of Pipeline Specification, please provide the required specifications for each gas.</i>	
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 (O2) percentage quality requirement	Not answered.

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QUESTIONS, Page 2

Action 143428

QUESTIONS (continued)

Operator: Harvest Four Corners, LLC 1111 Travis Street Houston, TX 77002	OGRID: 373888
	Action Number: 143428
	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	08/30/2022
Time vent or flare was discovered or commenced	01:13 PM
Time vent or flare was terminated	11:59 PM
Cumulative hours during this event	11

Measured or Estimated Volume of Vented or Flared Natural Gas	
Natural Gas Vented (Mcf) Details	Cause: Equipment Failure Pipeline (Any) Natural Gas Vented Released: 270 Mcf Recovered: 0 Mcf Lost: 270 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 leak was detected by aerial leak detection survey. There were no visible signs of gas leaking at the surface. After excavation, Harvest discovered a crack in the pipeline. Harvest could not have known that the pipeline would crack in this spot at this time beforehand and taken action to correct the issue
Steps taken to limit the duration and magnitude of vent or flare	Immediately after being notified of the potential leak, Harvest dispatched personnel to investigate. When no visible signs of a leak were found, Harvest isolated and pressure tested the pipeline. After seeing indications of pressure drop, Harvest took the pipeline out of service and initiated the process to repair the pipeline
Corrective actions taken to eliminate the cause and reoccurrence of vent or flare	Harvest has removed and replaced the cracked section of pipeline

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ACKNOWLEDGMENTS

Action 143428

ACKNOWLEDGMENTS

Operator: Harvest Four Corners, LLC 1111 Travis Street Houston, TX 77002	OGRID: 373888
	Action Number: 143428
	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 143428

CONDITIONS

Operator: Harvest Four Corners, LLC 1111 Travis Street Houston, TX 77002	OGRID: 373888
	Action Number: 143428
	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.	9/14/2022