



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

Analysis No: HM20220091
Cust No: 33700-10365

Well/Lease Information

Customer Name: HARVEST MIDSTREAM
Well Name: Pump Mesa CDP
County/State: San Juan NM
Location: 32-8-1
Lease/PA/CA:
Formation:
Cust. Stn. No.:

Source: DEHY INLET
Well Flowing: Y
Pressure: 900 PSIG
Flow Temp: 83 DEG. F
Ambient Temp: DEG. F
Flow Rate: MCF/D
Sample Method:
Sample Date: 10/20/2022
Sample Time: 11.32 AM
Sampled By: Daniel Lovato
Sampled by (CO): Harvest Mid

Heat Trace:

Remarks: Calculated Molecular Weight = 21.0944

Analysis

Component:	Mole%:	Unnormalized %:	**GPM:	*BTU:	*SP Gravity:
Nitrogen	0.0464	0.0463	0.0050	0.00	0.0004
CO2	16.7859	16.7409	2.8710	0.00	0.2551
Methane	81.4114	81.1931	13.8340	822.26	0.4509
Ethane	1.2865	1.2830	0.3450	22.77	0.0134
Propane	0.3039	0.3031	0.0840	7.65	0.0046
Iso-Butane	0.0501	0.0500	0.0160	1.63	0.0010
N-Butane	0.0526	0.0525	0.0170	1.72	0.0011
Neopentane 2,2 dmc3	0.0000	0.0000	0.0000	0.00	0.0000
I-Pentane	0.0213	0.0212	0.0080	0.85	0.0005
N-Pentane	0.0141	0.0141	0.0050	0.57	0.0004
Neohexane	0.0004	N/R	0.0000	0.02	0.0000
2-3-Dimethylbutane	0.0005	N/R	0.0000	0.02	0.0000
Cyclopentane	0.0005	N/R	0.0000	0.02	0.0000
2-Methylpentane	0.0034	N/R	0.0010	0.16	0.0001
3-Methylpentane	0.0013	N/R	0.0010	0.06	0.0000
C6	0.0042	0.0276	0.0020	0.20	0.0001
Methylcyclopentane	0.0030	N/R	0.0010	0.14	0.0001
Benzene	0.0008	N/R	0.0000	0.03	0.0000
Cyclohexane	0.0014	N/R	0.0000	0.06	0.0000
2-Methylhexane	0.0006	N/R	0.0000	0.03	0.0000
3-Methylhexane	0.0006	N/R	0.0000	0.03	0.0000
2-2-4-Trimethylpentane	0.0002	N/R	0.0000	0.01	0.0000
i-heptanes	0.0005	N/R	0.0000	0.03	0.0000
Heptane	0.0019	N/R	0.0010	0.10	0.0001

Methylcyclohexane	0.0034	N/R	0.0010	0.18	0.0001
Toluene	0.0016	N/R	0.0010	0.07	0.0001
2-Methylheptane	0.0007	N/R	0.0000	0.04	0.0000
4-Methylheptane	0.0003	N/R	0.0000	0.02	0.0000
i-Octanes	0.0004	N/R	0.0000	0.02	0.0000
Octane	0.0009	N/R	0.0000	0.06	0.0000
Ethylbenzene	0.0000	N/R	0.0000	0.00	0.0000
m, p Xylene	0.0006	N/R	0.0000	0.03	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	0.0002	N/R	0.0000	0.01	0.0000
i-C10	0.0001	N/R	0.0000	0.01	0.0000
C10	0.0000	N/R	0.0000	0.00	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	99.732	17.193	858.81	0.7283

* @ 14.730 PSIA DRY & UNCORRECTED FOR COMPRESSIBILITY

**@ 14.730 PSIA & 60 DEG. F.

COMPRESSIBILITY FACTOR (1/Z): 1.0026
 BTU/CU.FT IDEAL: 860.8
 BTU/CU.FT (DRY) CORRECTED FOR (1/Z): 863.0
 BTU/CU.FT (WET) CORRECTED FOR (1/Z): 848.0
 DRY BTU @ 15.025: 880.3
 REAL SPECIFIC GRAVITY: 0.7299

CYLINDER #: 9
 CYLINDER PRESSURE: 860 PSIG
 ANALYSIS DATE: 10/26/2022
 ANALYSIS TIME: 11:21:52 AM
 ANALYSIS RUN BY: PATRICIA KING

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: 10/28/2022

GC Method: C12+BTEX Gas



HARVEST MIDSTREAM
WELL ANALYSIS COMPARISON

Lease: Pump Mesa CDP

DEHY INLET

10/28/2022

Stn. No.:

33700-10365

Mtr. No.:

Smpl Date:	10/20/2022	04/06/2022	04/12/2021	11/04/2020	09/25/2019
Test Date:	10/26/2022	04/13/2022	04/13/2021	11/05/2020	10/02/2019
Run No:	HM20220091	HM20220020	HM2021022	HM200095	HM190069
Nitrogen:	0.0464	0.0624	0.0544	0.0812	0.0601
CO2:	16.7859	16.8514	16.5349	15.8519	17.1160
Methane:	81.4114	81.1507	81.9339	82.4772	81.2646
Ethane:	1.2865	1.3998	1.1178	1.2020	1.1763
Propane:	0.3039	0.3356	0.2309	0.2423	0.2481
I-Butane:	0.0501	0.0542	0.0383	0.0391	0.0384
N-Butane:	0.0526	0.0603	0.0432	0.0694	0.0457
2,2 dmc3:	0.0000	0.0000	0.0000	0.0000	0.0000
I-Pentane:	0.0213	0.0218	0.0170	0.0118	0.0191
N-Pentane:	0.0141	0.0151	0.0141	0.0068	0.0108
Neohexane:	0.0004	0.0009	0.0002	0.0001	0.0005
2-3-	0.0005	0.0009	0.0003	0.0003	0.0004
Cyclopentane:	0.0005	0.0009	0.0003	0.0003	0.0004
2-Methylpentane:	0.0034	0.0060	0.0020	0.0020	0.0029
3-Methylpentane:	0.0013	0.0022	0.0008	0.0009	0.0010
C6:	0.0042	0.0067	0.0022	0.0025	0.0029
Methylcyclopentane:	0.0030	0.0050	0.0014	0.0018	0.0020
Benzene:	0.0008	0.0012	0.0005	0.0006	0.0006
Cyclohexane:	0.0014	0.0022	0.0008	0.0010	0.0011
2-Methylhexane:	0.0006	0.0010	0.0004	0.0005	0.0005
3-Methylhexane:	0.0000	0.0000	0.0000	0.0000	0.0000
2-2-4-	0.0002	0.0005	0.0001	0.0002	0.0002
i-heptanes:	0.0005	0.0008	0.0003	0.0003	0.0003
Heptane:	0.0019	0.0032	0.0010	0.0013	0.0013
Methylcyclohexane:	0.0034	0.0064	0.0021	0.0023	0.0025
Toluene:	0.0016	0.0029	0.0009	0.0012	0.0012
2-Methylheptane:	0.0007	0.0013	0.0004	0.0004	0.0005
4-Methylheptane:	0.0003	0.0007	0.0002	0.0002	0.0003
i-Octanes:	0.0004	0.0007	0.0002	0.0002	0.0003
Octane:	0.0009	0.0017	0.0004	0.0005	0.0006
Ethylbenzene:	0.0000	0.0001	0.0000	0.0001	0.0000
m, p Xylene:	0.0006	0.0012	0.0003	0.0004	0.0004
o Xylene (& 2,2,4	0.0001	0.0001	0.0000	0.0001	0.0000
i-C9:	0.0001	0.0002	0.0000	0.0002	0.0001
C9:	0.0002	0.0004	0.0001	0.0002	0.0001
i-C10:	0.0001	0.0001	0.0000	0.0002	0.0000
C10:	0.0000	0.0001	0.0000	0.0001	0.0001
i-C11:	0.0000	0.0000	0.0000	0.0000	0.0000
C11:	0.0000	0.0001	0.0000	0.0000	0.0000
C12P:	0.0000	0.0000	0.0000	0.0000	0.0000
BTU:	863.0	864.7	861.9	869.8	857.0
GPM:	17.1970	17.2200	17.1660	17.1720	17.1750
SPG:	0.7299	0.7322	0.7252	0.7194	0.7315



860#
☐ Helium ☐ Hydrogen ☐ Oxygen
☐ C6+ ☐ C9+ ☒ BTEX

2030 Afton Place, Farmington, NM 87401 • 505/325-6622

Company Harvest Midstream

Pressure(PSIG) 900

Well Name _____

Sample Temp (Deg. F) 83°

Location/Source Pump Mesa COP

Well Flowing ☒ Yes ☐ No

Lease/County San Juan

Date Sampled 10/20/22

Formation _____

Sampled By Daniel Lento

Meter No _____

Cylinder No. 9

Contact Environment Dept

Remarks DEHY Inlet Source

33700 - 10365

HM 20220091

san juan reproduction - g

Line Leak Calc

Orifice Diameter	0.546 inches
Pressure	30 psig
Time/date Discovered	2/9/2023 4:00
Time/date Isolated	2/9/2023 8:30
Total Hours Blown	4.50 hours
Area of Orifice	0.23414 sq. inches

Lost Gas From Line Leak	56.34 Mcf
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Blowdown Calc

Length	2,096 feet
Actual Pipe OD	4.500 inches
Wall Thickness	0.156 inches
Pressure	30 psig

Lost Gas From Blowdown	0.410 Mcf
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Total Gas Loss	56.75 Mcf
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Lost Gas=(Orifice Diameter)²*Pressure*Time Blown

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

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District III
1000 Rio Brazos Rd., Aztec, NM 87410
Phone:(505) 334-6178 Fax:(505) 334-6170

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 188807

DEFINITIONS

Operator: Harvest Four Corners, LLC 1111 Travis Street Houston, TX 77002	OGRID: 373888
	Action Number: 188807
	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 188807

QUESTIONS

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	Action Number: 188807
	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	[fAPP2123052765] HARVEST FOUR CORNERS GATHER SYSTEM

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, 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 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	0
Hydrogen Sulfide (H2S) PPM, rounded up	0
Carbon Dioxide (CO2) percentage, if greater than one percent	17
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 188807

QUESTIONS (continued)

Operator: Harvest Four Corners, LLC 1111 Travis Street Houston, TX 77002	OGRID: 373888
	Action Number: 188807
	Action Type: [C-129] Venting and/or Flaring (C-129)

QUESTIONS

Date(s) and Time(s)	
Date vent or flare was discovered or commenced	02/09/2023
Time vent or flare was discovered or commenced	04:00 AM
Time vent or flare was terminated	08:30 AM
Cumulative hours during this event	5

Measured or Estimated Volume of Vented or Flared Natural Gas	
Natural Gas Vented (Mcf) Details	Cause: Equipment Failure Pipeline (Any) Natural Gas Vented Released: 57 Mcf Recovered: 0 Mcf Lost: 57 Mcf.
Natural Gas Flared (Mcf) Details	Not answered.
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	This release was caused by a pipeline cracking at the weld. Harvest could not have reasonably anticipated that the pipeline would fail at this particular spot at this particular time.
Steps taken to limit the duration and magnitude of vent or flare	The potential release was reported by a third-party operator at 4:00AM. This report was routed through the proper channels and Harvest personnel were dispatched to investigate. Immediately after confirming the leak, the pipeline was isolated to prevent further release of natural gas to atmosphere.
Corrective actions taken to eliminate the cause and reoccurrence of vent or flare	Pipeline was excavated and source of the release was identified. A weld in the pipeline had cracked. Damaged pipe was replaced, pipeline was buried, and placed back into service

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ACKNOWLEDGMENTS

Action 188807

ACKNOWLEDGMENTS

Operator: Harvest Four Corners, LLC 1111 Travis Street Houston, TX 77002	OGRID: 373888
	Action Number: 188807
	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 188807

CONDITIONS

Operator: Harvest Four Corners, LLC 1111 Travis Street Houston, TX 77002	OGRID: 373888
	Action Number: 188807
	Action Type: [C-129] Venting and/or Flaring (C-129)

CONDITIONS

Created By	Condition	Condition Date
oakley.hayes	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.	2/21/2023