



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

Analysis No: HM2021059
Cust No: 33700-10340

Well/Lease Information

Customer Name: HARVEST MIDSTREAM
Well Name: Rosa #1 CDP
County/State: San Juan NM
Location:
Lease/PA/CA:
Formation:
Cust. Stn. No.:

Source: Station Discharge
Well Flowing:
Pressure: 225 PSIG
Flow Temp: 107 DEG. F
Ambient Temp: 94 DEG. F
Flow Rate: 12 MCF/D
Sample Method: Purge & Fill
Sample Date: 06/22/2021
Sample Time: 1.15 PM
Sampled By: DANIEL LOVATO
Sampled by (CO): Harvest

Heat Trace:

Remarks: Calculated Molecular Weight = 18.3817

Analysis

Component:	Mole%:	Unnormalized %:	**GPM:	*BTU:	*SP Gravity:
Nitrogen	0.0635	0.0624	0.0070	0.00	0.0006
CO2	7.7018	7.5632	1.3170	0.00	0.1170
Methane	91.1400	89.5003	15.4830	920.51	0.5048
Ethane	0.9777	0.9601	0.2620	17.30	0.0102
Propane	0.0847	0.0832	0.0230	2.13	0.0013
Iso-Butane	0.0133	0.0131	0.0040	0.43	0.0003
N-Butane	0.0098	0.0096	0.0030	0.32	0.0002
Neopentane 2,2 dmc3	0.0000	0.0000	0.0000	0.00	0.0000
I-Pentane	0.0031	0.0030	0.0010	0.12	0.0001
N-Pentane	0.0000	0.0000	0.0000	0.00	0.0000
Neohexane	0.0002	N/R	0.0000	0.01	0.0000
2-3-Dimethylbutane	0.0001	N/R	0.0000	0.00	0.0000
Cyclopentane	0.0002	N/R	0.0000	0.01	0.0000
2-Methylpentane	0.0010	N/R	0.0000	0.05	0.0000
3-Methylpentane	0.0000	N/R	0.0000	0.00	0.0000
C6	0.0008	0.0060	0.0000	0.04	0.0000
Methylcyclopentane	0.0004	N/R	0.0000	0.02	0.0000
Benzene	0.0008	N/R	0.0000	0.03	0.0000
Cyclohexane	0.0003	N/R	0.0000	0.01	0.0000
2-Methylhexane	0.0000	N/R	0.0000	0.00	0.0000
3-Methylhexane	0.0000	N/R	0.0000	0.00	0.0000
2-2-4-Trimethylpentane	0.0000	N/R	0.0000	0.00	0.0000
i-heptanes	0.0001	N/R	0.0000	0.01	0.0000
Heptane	0.0004	N/R	0.0000	0.02	0.0000

Methylcyclohexane	0.0007	N/R	0.0000	0.04	0.0000
Toluene	0.0007	N/R	0.0000	0.03	0.0000
2-Methylheptane	0.0000	N/R	0.0000	0.00	0.0000
4-Methylheptane	0.0001	N/R	0.0000	0.01	0.0000
i-Octanes	0.0000	N/R	0.0000	0.00	0.0000
Octane	0.0002	N/R	0.0000	0.01	0.0000
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	0.0000	N/R	0.0000	0.00	0.0000
C9	0.0000	N/R	0.0000	0.00	0.0000
i-C10	0.0000	N/R	0.0000	0.00	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	98.201	17.100	941.11	0.6346

* @ 14.730 PSIA DRY & UNCORRECTED FOR COMPRESSIBILITY

**@ 14.730 PSIA & 60 DEG. F.

COMPRESSIBILITY FACTOR (1/Z): 1.0023
 BTU/CU.FT IDEAL: 943.3
 BTU/CU.FT (DRY) CORRECTED FOR (1/Z): 945.4
 BTU/CU.FT (WET) CORRECTED FOR (1/Z): 929.0
 DRY BTU @ 15.025: 964.3
 REAL SPECIFIC GRAVITY: 0.6358

CYLINDER #: 206
 CYLINDER PRESSURE: 225 PSIG
 ANALYSIS DATE: 07/07/2021
 ANALYSIS TIME: 02:52:59 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: 07/08/2021

GC Method: C12+BTEX Gas



HARVEST MIDSTREAM
WELL ANALYSIS COMPARISON

Lease: Rosa #1 CDP

Station Discharge

07/08/2021

Stn. No.:

33700-10340

Mtr. No.:

Smpl Date:	06/22/2021	05/01/2020	09/18/2019
Test Date:	07/07/2021	05/06/2020	09/23/2019
Run No:	HM2021059	HM200032	HM190063
Nitrogen:	0.0635	0.0525	0.0680
CO2:	7.7018	6.5632	4.9907
Methane:	91.1400	92.4704	93.4223
Ethane:	0.9777	0.8516	1.3381
Propane:	0.0847	0.0623	0.1455
I-Butane:	0.0133	0.0000	0.0213
N-Butane:	0.0098	0.0000	0.0140
2,2 dmc3:	0.0000	0.0000	0.0000
I-Pentane:	0.0031	0.0000	0.0000
N-Pentane:	0.0000	0.0000	0.0000
Neohexane:	0.0002	0.0000	0.0000
2-3-	0.0001	0.0000	0.0000
Cyclopentane:	0.0002	0.0000	0.0000
2-Methylpentane:	0.0010	0.0000	0.0000
3-Methylpentane:	0.0000	0.0000	0.0000
C6:	0.0008	0.0000	0.0000
Methylcyclopentane:	0.0004	0.0000	0.0000
Benzene:	0.0008	0.0000	0.0000
Cyclohexane:	0.0003	0.0000	0.0000
2-Methylhexane:	0.0000	0.0000	0.0000
3-Methylhexane:	0.0000	0.0000	0.0000
2-2-4-	0.0000	0.0000	0.0000
i-heptanes:	0.0001	0.0000	0.0000
Heptane:	0.0004	0.0000	0.0000
Methylcyclohexane:	0.0007	0.0000	0.0000
Toluene:	0.0007	0.0000	0.0000
2-Methylheptane:	0.0000	0.0000	0.0000
4-Methylheptane:	0.0001	0.0000	0.0000
i-Octanes:	0.0000	0.0000	0.0000
Octane:	0.0002	0.0000	0.0000
Ethylbenzene:	0.0000	0.0000	0.0000
m, p Xylene:	0.0001	0.0000	0.0000
o Xylene (& 2,2,4	0.0000	0.0000	0.0000
i-C9:	0.0000	0.0000	0.0000
C9:	0.0000	0.0000	0.0000
i-C10:	0.0000	0.0000	0.0000
C10:	0.0000	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:	945.4	954.9	976.5
GPM:	17.1030	17.0800	17.1390
SPG:	0.6358	0.6233	0.6119

C6+ ☐ C9+ ☐ C12+ BTEX ☒ Helium ☐N2 Flowback ☐ Sulfurs ☐ Ext. Liquid ☐Other _____ Date 6/22/21Sampled By: (Co.) Harvest Miostrum Time 1315 ☐ AM ☒ PMSampled by: (Person) Daniel Lovato Well Flowing: ☐ Yes ☐ NoCompany: _____ Heat Trace: ☐ Yes ☐ NoWell Name: _____ Flow Pressure (PSIG): 225#Lease#: Rosa COP Flow Temp (°F): 107°County: San Juan Formation: _____ Ambient Temp (°F): 94°State: N.M. Location: Rosa COP Flow Rate (MCF/D): 12 mcfSource: ☐ Meter Run ☐ Tubing ☐ Casing ☐ Bradenhead ☒ Other Station DischargeSample Type: ☐ Spot ☐ Composite Sample Method: ☒ Purge & Fill ☐ Other _____Meter Number: _____ Cylinder Number: 206Contact: Monica SmithRemarks: 33700-10340 HM 7021059

LINE LEAK OR CONTINUOUS PSV RELEASE CALCULATOR AND REPORTING

Fill in Yellow Fields

WELL/LINE NAME	METER NUMBER	ENTERED BY WHOM	DATE	PSI	PORT SIZE IN INCHES	TIME IN MINUTES BLOWN	MCF LOST	COMMENTS
				80.0	0.06	17400.00	103.88	

$$\text{Lost gas} = (\text{orifice diameter})^2 \times (\text{Pressure} + 11.7) \times \text{Minutes blown} / 60$$

District I1625 N. French Dr., Hobbs, NM 88240
Phone:(575) 393-6161 Fax:(575) 393-0720**District II**811 S. First St., Artesia, NM 88210
Phone:(575) 748-1283 Fax:(575) 748-9720**District III**1000 Rio Brazos Rd., Aztec, NM 87410
Phone:(505) 334-6178 Fax:(505) 334-6170**District IV**1220 S. St Francis Dr., Santa Fe, NM 87505
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

QUESTIONS

Action 38335

QUESTIONS

Operator:	Harvest Four Corners, LLC 1111 Travis Street Houston, TX 77002	OGRID:	373888
		Action Number:	38335
		Action Type:	[C-129] Venting and/or Flaring (C-129)

QUESTIONS**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 or is this venting or flaring caused by an emergency or malfunction	Yes
Did or will this venting or flaring last eight hours or more cumulatively within any 24-hour period from a single event	Yes
Is this considered a submission for a notification of a major venting or flaring	Yes, minor venting or flaring of natural gas.
The operator shall file a form C-141 instead of a form C-129 for a release that includes liquid during venting or flaring that is or may be a major or minor release under 19.13.29.7 NMAC.	
Was there or will there be at least 50 MCF of natural gas vented or flared during this event	Yes
Did this venting or flaring 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

Unregistered Facility Site*Please provide the facility details, if the venting or flaring occurred or is occurring at a facility that does not have an Facility ID (##) yet.*

Facility or Site Name	Rosa 29c
Facility Type	Pipeline - Gas Gathering - (PGG)

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	91
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	8
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.

Date(s) and Time(s)

Date venting or flaring was discovered or commenced	07/15/2021
Time venting or flaring was discovered or commenced	02:00 PM
Is the venting or flaring event complete	Yes
Date venting or flaring was terminated	07/15/2021
Time venting or flaring was terminated	02:00 PM
Total duration of venting or flaring in hours, if venting or flaring has terminated	290
Longest duration of cumulative hours within any 24-hour period during this event	24

Measured or Estimated Volume of Vented or Flared Natural Gas

Natural Gas Vented (Mcf) Details	Cause: Corrosion Pipeline (Any) Natural Gas Vented Spilled: 104 Mcf Recovered: 0 Mcf Lost: 104 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 Mcf values reported)	Yes, according to supplied volumes this appears to be a "gas only" report.

Venting or Flaring Resulting from Downstream Activity

Was or is this venting or flaring a result of downstream activity	No
Date notified of downstream activity requiring this venting or flaring	Not answered.
Time notified of downstream activity requiring this venting or flaring	Not answered.

Steps and Actions to Prevent Waste

For this event, the operator could not have reasonably anticipated the current event and it was beyond the operator's control.	True
Please explain reason for why this event was beyond your operator's control	Leak detected during aerial leak detection survey. Leak was caused by internal corrosion. This could not have been reasonably prevented by Harvest.
Steps taken to limit the duration and magnitude of venting or flaring	Upon receiving notification of the potential leak, Harvest immediately investigated, isolated, and stopped the leak.
Corrective actions taken to eliminate the cause and reoccurrence of venting or flaring	The leaking section of pipe was removed and replaced with new pipe before putting the line back into service.

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CONDITIONS

Action 38335

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Operator: Harvest Four Corners, LLC 1111 Travis Street Houston, TX 77002	OGRID: 373888
	Action Number: 38335
	Action Type: [C-129] Venting and/or Flaring (C-129)

CONDITIONS

Created By	Condition	Condition Date
system	If the information provided in this report requires an amendment, submit a [C-129] Request to Amend Venting and/or Flaring Incident, utilizing your incident number from this event.	7/27/2021