



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

Analysis No: HM20240019  
Cust No: 33700-12070

### Well/Lease Information

Customer Name: HARVEST MIDSTREAM  
Well Name: La Jara Station; Inlet  
County/State: Rio Arriba NM  
Location:  
Lease/PA/CA:  
Formation:  
Cust. Stn. No.:

Source: Inlet  
Well Flowing: Y  
Pressure: 170 PSIG  
Flow Temp: 56 DEG. F  
Ambient Temp: 60 DEG. F  
Flow Rate: 223,450 MCF/D  
Sample Method: Purge & Fill  
Sample Date: 03/20/2024  
Sample Time: 2.12 PM  
Sampled By: Ryan Antonson  
Sampled by (CO): Harvest

Heat Trace: N  
Remarks: Calculated Molecular Weight = 19.1606

### Analysis

Component:	Mole%:	Unnormalized %:	**GPM:	*BTU:	*SP Gravity:
Nitrogen	0.3521	0.3468	0.0390	0.00	0.0034
CO2	2.3438	2.3084	0.4010	0.00	0.0356
Methane	87.4222	86.1012	14.8580	882.96	0.4842
Ethane	5.4022	5.3206	1.4480	95.60	0.0561
Propane	2.6404	2.6005	0.7290	66.44	0.0402
Iso-Butane	0.4583	0.4514	0.1500	14.90	0.0092
N-Butane	0.7218	0.7109	0.2280	23.55	0.0145
Neopentane 2,2 dmc3	0.0000	0.0000	0.0000	0.00	0.0000
I-Pentane	0.2452	0.2415	0.0900	9.81	0.0061
N-Pentane	0.1803	0.1776	0.0660	7.23	0.0045
Neohexane	0.0058	N/R	0.0020	0.27	0.0002
2-3-Dimethylbutane	0.0070	N/R	0.0030	0.33	0.0002
Cyclopentane	0.0073	N/R	0.0020	0.27	0.0002
2-Methylpentane	0.0473	N/R	0.0200	2.25	0.0014
3-Methylpentane	0.0168	N/R	0.0070	0.80	0.0005
C6	0.0489	0.2300	0.0200	2.33	0.0015
Methylcyclopentane	0.0302	N/R	0.0110	1.36	0.0009
Benzene	0.0049	N/R	0.0010	0.18	0.0001
Cyclohexane	0.0136	N/R	0.0050	0.61	0.0004
2-Methylhexane	0.0052	N/R	0.0020	0.28	0.0002
3-Methylhexane	0.0049	N/R	0.0020	0.27	0.0002
2-2-4-Trimethylpentane	0.0007	N/R	0.0000	0.04	0.0000
i-heptanes	0.0030	N/R	0.0010	0.16	0.0001
Heptane	0.0093	N/R	0.0040	0.51	0.0003

Methylcyclohexane	0.0173	N/R	0.0070	0.90	0.0006
Toluene	0.0051	N/R	0.0020	0.23	0.0002
2-Methylheptane	0.0014	N/R	0.0010	0.09	0.0001
4-Methylheptane	0.0007	N/R	0.0000	0.04	0.0000
i-Octanes	0.0005	N/R	0.0000	0.03	0.0000
Octane	0.0013	N/R	0.0010	0.08	0.0001
Ethylbenzene	0.0001	N/R	0.0000	0.01	0.0000
m, p Xylene	0.0008	N/R	0.0000	0.04	0.0000
o Xylene (& 2,2,4 tmc7)	0.0002	N/R	0.0000	0.01	0.0000
i-C9	0.0004	N/R	0.0000	0.03	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	98.489	18.100	1111.67	0.6609

\* @ 14.730 PSIA DRY & UNCORRECTED FOR COMPRESSIBILITY

\*\*@ 14.730 PSIA & 60 DEG. F.

COMPRESSIBILITY FACTOR (1/Z):	1.0028	CYLINDER #:	1678
BTU/CU.FT IDEAL:	1114.2	CYLINDER PRESSURE:	186 PSIG
BTU/CU.FT (DRY) CORRECTED FOR (1/Z):	1117.4	ANALYSIS DATE:	03/25/2024
BTU/CU.FT (WET) CORRECTED FOR (1/Z):	1098.0	ANALYSIS TIME:	01:47:10 AM
DRY BTU @ 15.025:	1139.8	ANALYSIS RUN BY:	PATRICIA KING
REAL SPECIFIC GRAVITY:	0.6625		

**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: 03/25/2024**

**GC Method: C12+BTEX Gas**



HARVEST MIDSTREAM  
WELL ANALYSIS COMPARISON

**Lease:** La Jara Station; Inlet

Inlet

03/25/2024

**Stn. No.:**

33700-12070

**Mtr. No.:**

Smpl Date: 03/20/2024  
 Test Date: 03/25/2024  
 Run No: HM20240019

Nitrogen: 0.3521  
 CO2: 2.3438  
 Methane: 87.4222  
 Ethane: 5.4022  
 Propane: 2.6404  
 I-Butane: 0.4583  
 N-Butane: 0.7218  
 2,2 dmc3: 0.0000  
 I-Pentane: 0.2452  
 N-Pentane: 0.1803  
 Neohehexane: 0.0058  
 2-3-: 0.0070  
 Cyclopentane: 0.0073  
 2-Methylpentane: 0.0473  
 3-Methylpentane: 0.0168  
 C6: 0.0489  
 Methylcyclopentane: 0.0302  
 Benzene: 0.0049  
 Cyclohexane: 0.0136  
 2-Methylhexane: 0.0052  
 3-Methylhexane: 0.0000  
 2-2-4-: 0.0007  
 i-heptanes: 0.0030  
 Heptane: 0.0093  
 Methylcyclohexane: 0.0173  
 Toluene: 0.0051  
 2-Methylheptane: 0.0014  
 4-Methylheptane: 0.0007  
 i-Octanes: 0.0005  
 Octane: 0.0013  
 Ethylbenzene: 0.0001  
 m, p Xylene: 0.0008  
 o Xylene (& 2,2,4: 0.0002  
 i-C9: 0.0004  
 C9: 0.0002  
 i-C10: 0.0004  
 C10: 0.0001  
 i-C11: 0.0000  
 C11: 0.0000  
 C12P: 0.0000  
 BTU: 1117.4  
 GPM: 18.1130  
 SPG: 0.6625

2030 Afton Place, Farmington, NM 87401 - (505) 325-6622 186#



C6+ ☐ C6+W/H2S ☐ C9+ ☐ C12+ BTEX ☐

Helium ☐ Sulfurs ☐ Ext. Liquid ☐

Other \_\_\_\_\_

From Core Date 3-20-24 DL

Sampled By: (Co.) Harvest Midstream

Time N/A PM ☐ AM ☐ PM

Sampled by: (Person) Ryan Antonson

Well Flowing: ☒ Yes ☐ No

Company: Harvest Midstream

Heat Trace: ☐ Yes ☒ No

Well Name: La Jara Station

Flow Pressure (PSIG): 170

API #: \_\_\_\_\_

Flow Temp (°F): 56

Lease#: \_\_\_\_\_

Ambient Temp (°F): 60

County: Rio Arriba State: NM

Formation: \_\_\_\_\_

Flow Rate (MCF/D): 223,450

Source: ☐ Meter Run ☐ Tubing ☐ Casing ☐ Bradenhead ☒ Other Station Inlet

Sample Type: ☒ Spot ☐ Composite Sample Method: ☒ Purge & Fill ☐ Other \_\_\_\_\_

Meter Number: \_\_\_\_\_

Cylinder Number: 1678

Contact: Harvest Midstream

Remarks: 33700-12070

HM 20240019

ASME Relief Valve Sizing

13-May-24

Enter One Value Only

SCFM

or

MMscf/d

or

-

lb/hr

Flow RequiredMMscf/D

490

Relieving Pressure (Psig)

12.50

Atmospheric Pressure (Psia)

50

Relieving Temp (F)

0.59

Specific Gravity of Gas (SG)

0.818

ASME Flow Coefficient (K)

344

Gas Constant (C)

4.34

Area (in\*\*2)

Calculated

Relief Valve Capacity

Or Area

39,335

SCFM

56.642

MMscf/d

106,256

lb/hr

-

Area (In\*\*2)

Sizing Calculations

<u>503</u>	Relieving Pressure	P (psia)	(Selected Relieving Pressure Should Include Allowable Buildup.)
<u>570</u>	Relieving Temp	T (Deg R)	
14.7	P base	psia	
520	T base	Deg R	
1.0	Z base		
1.0	Z relieving	z	(Can assume z = 1.0 to be conservative.)
17.1	Molecular Weight	M	=SG*MW of Air (28.964)
0.04502	Gas Density	lb/ft**3	=Pbase*(MW)/(Zbase*R(10.73)*Tbase) (At exit conditions, STP)
<u>0.818</u>	Flow Coefficient	K	(Use Manufacture's Coefficient.)
<u>344</u>	Gas Constant	C	(Normally 344 for .6 SG, Natural Gas)
-	SCFM		
-	MMscf/d		
-	lb/hr		
<u>4.3400</u>	Actual Flow Area	A (in**2)	
-	Given SCFM solving for Area (in**2)		=(SCFM*Density*60)/(K*C*P*(SQRT(M/zT)))
-	Given MMscf/d solving for Area (in**2)		=(MMscfd*Density*1000000/24)/(K*C*P*(SQRT(M/zT)))
-	Given lb/hr solving for Area (in**2)		=(lb/hr)/(K*C*P*(SQRT(M/zT)))
39,335	Given Area Solving for SCFM		=(K*A*C*P)/(Density*60)*(SQRT(M/zT))
56.642	Given Area Solving for MMscf/d		=(K*A*C*P)/(Density*1000000/24)*(SQRT(M/zT))
106,256	Given Area Solving for lb/hr		=(K*A*C*P)*(SQRT(M/zT))

Note: Reference equations are from Appendix 11, Section VIII of the ASME Boiler and Pressure Vessel Code.

**District I**  
1625 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**

DEFINITIONS  
  
Action 343413

DEFINITIONS

Operator: Harvest Four Corners, LLC 1755 Arroyo Dr Bloomfield, NM 87413	OGRID: 373888
	Action Number: 343413
	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"><li>• this application's operator, hereinafter "this operator";</li><li>• venting and/or flaring, hereinafter "vent or flare";</li><li>• any notification or report(s) of the C-129 form family, hereinafter "any C-129 forms";</li><li>• the statements in (and/or attached to) this, hereinafter "the statements in this";</li><li>• and the past tense will be used in lieu of mixed past/present tense questions and statements.</li></ul>
--

**District I**  
1625 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 343413

QUESTIONS

Operator: Harvest Four Corners, LLC 1755 Arroyo Dr Bloomfield, NM 87413	OGRID: 373888
	Action Number: 343413
	Action Type: [C-129] Amend Venting and/or Flaring (C-129A)

QUESTIONS

<b>Prerequisites</b> 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	[fCS00000000129] WFS LA JARA CS
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.	

<b>Determination of Reporting Requirements</b> 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

<b>Equipment Involved</b>	
Primary Equipment Involved	Other (Specify)
Additional details for Equipment Involved. Please specify	PSV

<b>Representative Compositional Analysis of Vented or Flared Natural Gas</b> Please provide the mole percent for the percentage questions in this group.	
Methane (CH4) percentage	87
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	2
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.





**District I**  
1625 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, Page 2  
  
Action 343413

QUESTIONS (continued)

Operator: Harvest Four Corners, LLC 1755 Arroyo Dr Bloomfield, NM 87413	OGRID:
	373888
	Action Number:
	343413
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	05/06/2024
Time vent or flare was discovered or commenced	04:32 AM
Time vent or flare was terminated	04:51 AM
Cumulative hours during this event	0

Measured or Estimated Volume of Vented or Flared Natural Gas	
Natural Gas Vented (Mcf) Details	Cause: High Line Pressure   Other (Specify)   Natural Gas Vented   Released: 747 Mcf   Recovered: 0 Mcf   Lost: 747 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	
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	The PSV relieved due to high pressure on the system. The high pressure was caused by the unexpected shut down at El cedro.
Steps taken to limit the duration and magnitude of vent or flare	El cedro station was started back up as soon as possible
Corrective actions taken to eliminate the cause and reoccurrence of vent or flare	PSV operated as it should. Releasing high pressure as a safety device



**District I**  
1625 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

ACKNOWLEDGMENTS  
  
Action 343413

ACKNOWLEDGMENTS

Operator: Harvest Four Corners, LLC 1755 Arroyo Dr Bloomfield, NM 87413	OGRID: 373888
	Action Number: 343413
	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.

**District I**  
1625 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**

CONDITIONS  
  
Action 343413

CONDITIONS

Operator: Harvest Four Corners, LLC 1755 Arroyo Dr Bloomfield, NM 87413	OGRID: 373888
	Action Number: 343413
	Action Type: [C-129] Amend Venting and/or Flaring (C-129A)

CONDITIONS

Created By	Condition	Condition Date
chadsnell	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.	5/13/2024