



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

Analysis No: HM2021013  
Cust No: 33700-10060

### Well/Lease Information

Customer Name: HARVEST MIDSTREAM  
Well Name: Trunk S Inlet La Jara Station  
County/State:  
Location:  
Lease/PA/CA:  
Formation:  
Cust. Stn. No.:

Source:  
Well Flowing:  
Pressure: PSIG  
Flow Temp: DEG. F  
Ambient Temp: DEG. F  
Flow Rate: MCF/D  
Sample Method:  
Sample Date: 03/10/2021  
Sample Time: 9.25 AM  
Sampled By: Ryan Antonson  
Sampled by (CO): Harvest

Heat Trace:

Remarks: Calculated Molecular Weight = 20.2481

### Analysis

Component:	Mole%:	Unnormalized %:	**GPM:	*BTU:	*SP Gravity:
Nitrogen	0.6351	0.6329	0.0700	0.00	0.0061
CO2	1.4543	1.4493	0.2490	0.00	0.0221
Methane	82.8214	82.5377	14.0820	836.50	0.4587
Ethane	8.2657	8.2374	2.2170	146.28	0.0858
Propane	4.0453	4.0314	1.1180	101.78	0.0616
Iso-Butane	0.6405	0.6383	0.2100	20.83	0.0129
N-Butane	1.0659	1.0622	0.3370	34.77	0.0214
Neopentane 2,2 dmc3	0.0000	0.0000	0.0000	0.00	0.0000
I-Pentane	0.3604	0.3592	0.1320	14.42	0.0090
N-Pentane	0.2718	0.2709	0.0990	10.90	0.0068
Neohexane	0.0093	N/R	0.0040	0.44	0.0003
2-3-Dimethylbutane	0.0111	N/R	0.0050	0.53	0.0003
Cyclopentane	0.0116	N/R	0.0030	0.44	0.0003
2-Methylpentane	0.0749	N/R	0.0310	3.56	0.0022
3-Methylpentane	0.0275	N/R	0.0110	1.31	0.0008
C6	0.0784	0.4381	0.0320	3.73	0.0023
Methylcyclopentane	0.0531	N/R	0.0190	2.39	0.0015
Benzene	0.0097	N/R	0.0030	0.36	0.0003
Cyclohexane	0.0236	N/R	0.0080	1.06	0.0007
2-Methylhexane	0.0078	N/R	0.0040	0.43	0.0003
3-Methylhexane	0.0081	N/R	0.0040	0.44	0.0003
2-2-4-Trimethylpentane	0.0026	N/R	0.0010	0.16	0.0001
i-heptanes	0.0052	N/R	0.0020	0.28	0.0002
Heptane	0.0208	N/R	0.0100	1.14	0.0007

Methylcyclohexane	0.0408	N/R	0.0160	2.13	0.0014
Toluene	0.0162	N/R	0.0050	0.72	0.0005
2-Methylheptane	0.0076	N/R	0.0040	0.47	0.0003
4-Methylheptane	0.0035	N/R	0.0020	0.22	0.0001
i-Octanes	0.0038	N/R	0.0020	0.23	0.0001
Octane	0.0092	N/R	0.0050	0.57	0.0004
Ethylbenzene	0.0005	N/R	0.0000	0.03	0.0000
m, p Xylene	0.0093	N/R	0.0040	0.48	0.0003
o Xylene (& 2,2,4 tmc7)	0.0011	N/R	0.0000	0.06	0.0000
i-C9	0.0011	N/R	0.0010	0.07	0.0000
C9	0.0019	N/R	0.0010	0.13	0.0001
i-C10	0.0002	N/R	0.0000	0.01	0.0000
C10	0.0004	N/R	0.0000	0.03	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	99.657	18.691	1186.89	0.6981

\* @ 14.730 PSIA DRY & UNCORRECTED FOR COMPRESSIBILITY

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

COMPRESSIBILITY FACTOR (1/Z):	1.0032	CYLINDER #:	16
BTU/CU.FT IDEAL:	1189.6	CYLINDER PRESSURE:	189 PSIG
BTU/CU.FT (DRY) CORRECTED FOR (1/Z):	1193.5	ANALYSIS DATE:	03/12/2021
BTU/CU.FT (WET) CORRECTED FOR (1/Z):	1172.7	ANALYSIS TIME:	10:17:16 AM
DRY BTU @ 15.025:	1217.4	ANALYSIS RUN BY:	PATRICIA KING
REAL SPECIFIC GRAVITY:	0.7001		

**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: 03/16/2021**

**GC Method: C12+BTEX Gas**



HARVEST MIDSTREAM  
WELL ANALYSIS COMPARISON

**Lease:** Trunk S Inlet La Jara Station

03/16/2021

**Stn. No.:**

33700-10060

**Mtr. No.:**

Smpl Date:	03/10/2021	12/29/2020	12/31/2019
Test Date:	03/12/2021	12/30/2020	01/07/2020
Run No:	HM2021013	HM200103	HM200001
Nitrogen:	0.6351	0.5163	1.0688
CO2:	1.4543	1.7243	1.6565
Methane:	82.8214	83.1899	82.6372
Ethane:	8.2657	8.0683	8.0037
Propane:	4.0453	3.9057	3.8334
I-Butane:	0.6405	0.6681	0.6777
N-Butane:	1.0659	1.0702	1.1385
2,2 dmc3:	0.0000	0.0000	0.0017
I-Pentane:	0.3604	0.3281	0.3515
N-Pentane:	0.2718	0.2304	0.2576
Neohexane:	0.0093	0.0136	0.0009
2-3-	0.0111	0.0109	0.0094
Cyclopentane:	0.0116	0.0113	0.0098
2-Methylpentane:	0.0749	0.0731	0.0635
3-Methylpentane:	0.0275	0.0297	0.0282
C6:	0.0784	0.0089	0.0702
Methylcyclopentane:	0.0531	0.0483	0.0426
Benzene:	0.0097	0.0081	0.0096
Cyclohexane:	0.0236	0.0208	0.0237
2-Methylhexane:	0.0078	0.0073	0.0091
3-Methylhexane:	0.0000	0.0000	0.0000
2-2-4-	0.0026	0.0014	0.0024
i-heptanes:	0.0052	0.0044	0.0059
Heptane:	0.0208	0.0144	0.0210
Methylcyclohexane:	0.0408	0.0252	0.0379
Toluene:	0.0162	0.0064	0.0113
2-Methylheptane:	0.0076	0.0025	0.0056
4-Methylheptane:	0.0035	0.0013	0.0028
i-Octanes:	0.0038	0.0007	0.0025
Octane:	0.0092	0.0021	0.0052
Ethylbenzene:	0.0005	0.0001	0.0022
m, p Xylene:	0.0093	0.0008	0.0002
o Xylene (& 2,2,4	0.0011	0.0001	0.0002
i-C9:	0.0011	0.0001	0.0004
C9:	0.0019	0.0002	0.0005
i-C10:	0.0002	0.0001	0.0000
C10:	0.0004	0.0000	0.0000
i-C11:	0.0000	0.0000	0.0000
C11:	0.0000	0.0001	0.0000
C12P:	0.0000	0.0000	0.0000
BTU:	1193.5	1181.1	1181.0
GPM:	18.7110	18.6350	18.6310
SPG:	0.7001	0.6951	0.6999



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189#

C6+ ☐ C9+ ☐ C12+ BTEX ☒ Helium ☐  
N2 Flowback ☐ Sulfurs ☐ Ext. Liquid ☐  
Other \_\_\_\_\_

Sampled By: (Co.) \_\_\_\_\_

Date 3-10-21

Time \_\_\_\_\_ ☐ AM ☐ PM

Sampled by: (Person) Ryan Antonson

Well Flowing: ☐ Yes ☐ No

Company: Harvest Midstream

Heat Trace: ☐ Yes ☐ No

Well Name: Trunk S Inlet LaJara

Flow Pressure (PSIG): \_\_\_\_\_

Lease#: Station

Flow Temp (°F): \_\_\_\_\_

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

Ambient Temp (°F): \_\_\_\_\_

State: \_\_\_\_\_ Location: \_\_\_\_\_

Flow Rate (MCF/D): \_\_\_\_\_

Source: ☐ Meter Run ☐ Tubing ☐ Casing ☐ Bradenhead ☐ Other \_\_\_\_\_Sample Type: ☐ Spot ☐ Composite Sample Method: ☐ Purge & Fill ☐ Other \_\_\_\_\_

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

Cylinder Number: 116

Contact: 33700-10060

HM 2021013

Remarks: Card filled out by Patricia King @ G.A.S.

**LINE LEAK OR CONTINUOUS PSV RELEASE CALCULATOR AND REPORTING**

Fill in Yellow Fields

<b>WELL/LINE NAME</b>	<b>METER NUMBER</b>	<b>ENTERED BY WHOM</b>	<b>DATE</b>	<b>PSI</b>	<b>PORT SIZE IN INCHES</b>	<b>TIME IN MINUTES BLOWN</b>	<b>MCF LOST</b>	<b>COMMENTS</b>
				35.0	0.13	24480.00	297.71	

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

**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 37855

**QUESTIONS**

Operator: Harvest Four Corners, LLC 1111 Travis Street Houston, TX 77002	OGRID: 373888
	Action Number: 37855
	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.
<b>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 19.13.297 NMAC.</b>	
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	San Juan 32-5
Facility Type	Not answered.

**Equipment Involved**

Primary Equipment Involved	Other (Specify)
Additional details for Equipment Involved. Please specify	ESD tubing

**Representative Compositional Analysis of Vented or Flared Natural Gas**

Please provide the mole percent for the percentage questions in this group.

Methane (CH4) percentage	83
Nitrogen (N2) percentage, if greater than one percent	1
Hydrogen Sulfide (H2S) PPM, rounded up	0
Carbon Dioxide (CO2) percentage, if greater than one percent	1
Oxygen (O2) percentage, if greater than one percent	0
<b>If you are venting and/or flaring because of Pipeline Specification, please provide the required specifications for each gas.</b>	
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	07/09/2021
Time venting or flaring was discovered or commenced	12:00 PM
Is the venting or flaring event complete	Yes
Date venting or flaring was terminated	07/09/2021
Time venting or flaring was terminated	12:00 PM
Total duration of venting or flaring in hours, if venting or flaring has terminated	408
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: Equipment Failure   Coupling   Natural Gas Vented   Spilled: 298 Mcf   Recovered: 0 Mcf   Lost: 298 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 was detected during aerial leak detection survey. Operator unable to identify leak using standard AVO techniques. Under normal operating conditions, connections on ESD tubing loosened, allowing a small amount of gas to leak, unnoticeable by operator
Steps taken to limit the duration and magnitude of venting or flaring	Upon notification from aerial leak detection report, Harvest immediately investigated, isolated, and addressed the cause of the natural gas release. Connections were then tested using soap bubbles to verify that leak had been repaired and was no longer releasing natural gas
Corrective actions taken to eliminate the cause and reoccurrence of venting or flaring	Harvest tightened all connections and tested using soap bubbles to verify that no gas was being released after repair efforts

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CONDITIONS  
  
Action 37855

CONDITIONS

Operator: Harvest Four Corners, LLC 1111 Travis Street Houston, TX 77002	OGRID: 373888
	Action Number: 37855
	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.	7/24/2021