



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
 BTU/CU.FT IDEAL: 1189.6
 BTU/CU.FT (DRY) CORRECTED FOR (1/Z): 1193.5
 BTU/CU.FT (WET) CORRECTED FOR (1/Z): 1172.7
 DRY BTU @ 15.025: 1217.4
 REAL SPECIFIC GRAVITY: 0.7001

CYLINDER #: 16
 CYLINDER PRESSURE: 189 PSIG
 ANALYSIS DATE: 03/12/2021
 ANALYSIS TIME: 10:17:16 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: 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

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

Lost gas =((orifice diameter)^2*(Pressure +11.7))*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 37854

QUESTIONS

Operator: Harvest Four Corners, LLC 1111 Travis Street Houston, TX 77002	OGRID: 373888
	Action Number: 37854
	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	Lateral A-46
Facility Type	Natural Gas Gathering System - (GGS)

Equipment Involved

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

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
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	07/09/2021
Time venting or flaring was discovered or commenced	01:00 PM
Is the venting or flaring event complete	Yes
Date venting or flaring was terminated	07/09/2021
Time venting or flaring was terminated	01:00 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 discovered via aerial leak detection survey. Not able to detect using AVO techniques. Under normal operating conditions, connections on ESD tubing loosened enough to allow a small amount of natural gas to seep from the loose connection, unknown to operator
Steps taken to limit the duration and magnitude of venting or flaring	Upon notification from aerial survey report, Harvest immediately investigated, isolated, and addressed the source of the natural gas release
Corrective actions taken to eliminate the cause and reoccurrence of venting or flaring	Loose tubing connections have been tightened and tested for leaks using soap bubbles to confirm that no gas is leaking on connections

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CONDITIONS

Action 37854

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Operator: Harvest Four Corners, LLC 1111 Travis Street Houston, TX 77002	OGRID: 373888
	Action Number: 37854
	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