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

Analysis No: HM210008
Cust No: 33700-10145

Well/Lease Information

Customer Name:	HARVEST MIDSTREAM	Source:	INLET
Well Name:	29-6 #3 CDP; INLET	Well Flowing:	Y
County/State:	RIO ARRIBA NM	Pressure:	37 PSIG
Location:		Flow Temp:	40 DEG. F
Lease/PA/CA:		Ambient Temp:	39 DEG. F
Formation:		Flow Rate:	7.7 MCF/D
Cust. Stn. No.:		Sample Method:	Purge & Fill
		Sample Date:	02/25/2021
		Sample Time:	8.30 AM
		Sampled By:	BRIAN ALLEN
Heat Trace:	N	Sampled by (CO):	HARVEST MID.
Remarks:	Calculated Molecular Weight = 19.8742		

Analysis

Component:	Mole%:	Unormalized %:	**GPM:	*BTU:	*SP Gravity:
Nitrogen	0.1828	0.1825	0.0200	0.00	0.0018
CO2	1.7243	1.7217	0.2950	0.00	0.0262
Methane	85.2841	85.1558	14.4990	861.37	0.4724
Ethane	7.0643	7.0537	1.8950	125.02	0.0733
Propane	3.0577	3.0531	0.8450	76.93	0.0466
Iso-Butane	0.5695	0.5686	0.1870	18.52	0.0114
N-Butane	0.8275	0.8263	0.2620	27.00	0.0166
Neopentane 2,2 dmc3	0.0010	0.0010	0.0000	0.04	0.0000
I-Pentane	0.3575	0.3570	0.1310	14.30	0.0089
N-Pentane	0.2585	0.2581	0.0940	10.36	0.0064
Neohexane	0.0121	N/R	0.0050	0.57	0.0004
2-3-Dimethylbutane	0.0138	N/R	0.0060	0.65	0.0004
Cyclopentane	0.0144	N/R	0.0040	0.54	0.0003
2-Methylpentane	0.0930	N/R	0.0390	4.42	0.0028
3-Methylpentane	0.0365	N/R	0.0150	1.73	0.0011
C6	0.1130	0.6717	0.0470	5.37	0.0034
Methylcyclopentane	0.0731	N/R	0.0260	3.29	0.0021
Benzene	0.0126	N/R	0.0040	0.47	0.0003
Cyclohexane	0.0399	N/R	0.0140	1.79	0.0012
2-Methylhexane	0.0151	N/R	0.0070	0.82	0.0005
3-Methylhexane	0.0157	N/R	0.0070	0.86	0.0005
2-2-4-Trimethylpentane	0.0048	N/R	0.0030	0.30	0.0002
i-heptanes	0.0101	N/R	0.0040	0.54	0.0003
Heptane	0.0443	N/R	0.0200	2.44	0.0015

Methylcyclohexane	0.0911	N/R	0.0370	4.75	0.0031
Toluene	0.0303	N/R	0.0100	1.36	0.0010
2-Methylheptane	0.0145	N/R	0.0070	0.90	0.0006
4-Methylheptane	0.0061	N/R	0.0030	0.38	0.0002
i-Octanes	0.0065	N/R	0.0030	0.39	0.0003
Octane	0.0144	N/R	0.0070	0.90	0.0006
Ethylbenzene	0.0005	N/R	0.0000	0.03	0.0000
m, p Xylene	0.0077	N/R	0.0030	0.40	0.0003
o Xylene (& 2,2,4 tmc7)	0.0006	N/R	0.0000	0.03	0.0000
i-C9	0.0007	N/R	0.0000	0.05	0.0000
C9	0.0015	N/R	0.0010	0.10	0.0001
i-C10	0.0002	N/R	0.0000	0.01	0.0000
C10	0.0002	N/R	0.0000	0.02	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	99.849	18.500	1166.65	0.6849

* @ 14.730 PSIA DRY & UNCORRECTED FOR COMPRESSIBILITY
**@ 14.730 PSIA & 60 DEG. F.

COMPRESSIBLITY FACTOR (1/Z):	1.0031	CYLINDER #:	1268
BTU/CU.FT IDEAL:	1169.3	CYLINDER PRESSURE:	38 PSIG
BTU/CU.FT (DRY) CORRECTED FOR (1/Z):	1173.0	ANALYSIS DATE:	02/26/2021
BTU/CU.FT (WET) CORRECTED FOR (1/Z):	1152.6	ANALYIS TIME:	02:57:08 AM
DRY BTU @ 15.025:	1196.5	ANALYSIS RUN BY:	PATRICIA KING
REAL SPECIFIC GRAVITY:	0.6867		

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: 03/01/2021**
GC Method: C12+BTEX Gas

HARVEST MIDSTREAM

WELL ANALYSIS COMPARISON

Lease: 29-6 #3 CDP; INLET INLET 03/01/2021

Stn. No.: 33700-10145

Mtr. No.:

Smpl Date:	02/25/2021	08/10/2020	02/20/2019
Test Date:	02/26/2021	08/12/2020	02/22/2019
Run No:	HM210008	HM200069	HM190009
Nitrogen:	0.1828	0.1614	0.1722
CO2:	1.7243	1.6659	1.8760
Methane:	85.2841	86.2257	87.4449
Ethane:	7.0643	6.2557	5.9671
Propane:	3.0577	2.8374	2.3949
I-Butane:	0.5695	0.6203	0.5129
N-Butane:	0.8275	0.8680	0.6894
2,2 dmc3:	0.0010	0.0026	0.0573
I-Pentane:	0.3575	0.3724	0.2695
N-Pentane:	0.2585	0.2722	0.1852
Neohexane:	0.0121	0.0135	0.0119
2-3-Cyclopentane:	0.0138	0.0190	0.0098
2-Methylpentane:	0.0144	0.0197	0.0102
3-Methylpentane:	0.0930	0.1277	0.0661
C6:	0.0365	0.0503	0.0279
Methylcyclopentane:	0.1130	0.1453	0.0765
Benzene:	0.0731	0.0807	0.0521
Cyclohexane:	0.0126	0.0106	0.0099
2-Methylhexane:	0.0399	0.0453	0.0297
3-Methylhexane:	0.0151	0.0168	0.0105
2-2-4-i-heptanes:	0.0000	0.0000	0.0000
Heptane:	0.0048	0.0029	0.0027
Methylcyclohexane:	0.0101	0.0096	0.0067
Toluene:	0.0443	0.0385	0.0252
2-Methylheptane:	0.0911	0.0669	0.0487
4-Methylheptane:	0.0303	0.0165	0.0134
i-Octanes:	0.0145	0.0089	0.0056
Octane:	0.0061	0.0040	0.0025
Ethylbenzene:	0.0065	0.0048	0.0019
m, p Xylene:	0.0144	0.0136	0.0045
o Xylene (& 2,2,4	0.0005	0.0005	0.0002
i-C9:	0.0077	0.0054	0.0018
C9:	0.0006	0.0006	0.0003
i-C10:	0.0007	0.0014	0.0005
C10:	0.0015	0.0019	0.0004
i-C11:	0.0002	0.0006	0.0004
C11:	0.0002	0.0002	0.0002
C12P:	0.0000	0.0000	0.0000
	0.0000	0.0001	0.0001
	0.0000	0.0001	0.0000
BTU:	1173.0	1168.6	1135.5
GPM:	18.5290	18.4590	18.2110
SPG:	0.6867	0.6827	0.6649

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GAS ANALYSIS SERVICE

10 PSIG Precharge 38#

C6+ ☐ C9+ ☐ C12+ ☐ C12+ BTEX ☐ Helium ☐

Other Natural gas

Date 2-25-21

Time 0830 ☒AM ☐PM

Sampled By:(Co.) Harvest Midstream

Sampled by:(Person) Brian Allen

Company: Harvest Midstream

Well Name: 29-6#3 CDP

Location:

County/State:

Formation: Conventional

Well Flowing: ☒ Yes ☐ No

Heat Trace: ☐ Yes ☒ No

Flow Pressure (PSIG): 37

Flow Temp (°F): 40

Ambient Temp (°F): 39

Flow Rate (MCF/D): 7.7

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

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

Meter Number:

Cylinder Number: FCA1268 #8

Contact: Harvest Midstream EHS group

Remarks: 33700 - 10145 HM 21000B

CALCULATION OF GAS LOSS

Pipe Diameter	2	inches
Orifice Diameter	1.93	inches
Pressure	310	psig
Length of Time Blown	0.25	hours
Area of Orifice	2.92553	sq. inches
Lost Gas	**288.680**	**Mcf**

Lost Gas=(Orifice Diameter)^2*Pressure*Time Blown

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 30468

QUESTIONS

Operator: Harvest Four Corners, LLC 1111 Travis Street Houston, TX 77002	OGRID: 373888
	Action Number: 30468
	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 addional 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	No
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 19.15.29.7 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 occuring at a facility that does not have an Facility ID (f#) yet.	
Facility or Site Name	29-6 #3
Facility Type	Compressor Station - (CS)

Equipment Involved	
Primary Equipment Involved	Valve
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	85
Nitrogen (N2) percentage, if greater than one percent	0
Hydrogen Sulfide (H2S) PPM, rounded up	0
Carbon Dioxide (C02) percentage, if greater than one percent	2
Oxygen (02) 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 Sufide (H2S) PPM quality requirement	*Not answered.*
Carbon Dioxide (C02) percentage quality requirement	*Not answered.*
Oxygen (02) percentage quality requirement	*Not answered.*

Date(s) and Time(s)	
Date venting or flaring was discovered or commenced	05/28/2021
Time venting or flaring was discovered or commenced	01:47 PM
Is the venting or flaring event complete	Yes
Date venting or flaring was terminated	05/28/2021
Time venting or flaring was terminated	02:02 PM
Total duration of venting or flaring in hours, if venting or flaring has terminated	0
Longest duration of cumulative hours within any 24-hour period during this event	0

Measured or Estimated Volume of Vented or Flared Natural Gas	
Natural Gas Vented (Mcf) Details	Cause: Equipment Failure | Gas Compressor Station | Natural Gas Vented | Spilled: 288 Mcf | Recovered: 0 Mcf | Lost: 288 Mcf]
Natural Gas Flared (Mcf) Details	*Not answered.*
Other Released Details	*Not answered.*
Additional details for Measured or Estimated Volume(s). Please specify	Estimated Volume
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	Discharge valve didn't actuate completely due to leaking Dab valve disc.
Steps taken to limit the duration and magnitude of venting or flaring	Shut in unit.
Corrective actions taken to eliminate the cause and reoccurrence of venting or flaring	Repaired Dab valve disc.

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CONDITIONS

Action 30468

CONDITIONS

Operator: Harvest Four Corners, LLC 1111 Travis Street Houston, TX 77002	OGRID: 373888
	Action Number: 30468
	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.	6/10/2021