



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

Analysis No: HM200089
Cust No: 33700-10430

Well/Lease Information

Customer Name: HARVEST MIDSTREAM
Well Name: 31-6 CDP
County/State: Rio Arriba NM
Location:
Lease/PA/CA:
Formation:
Cust. Stn. No.: 62205

Source: Inlet To Station
Well Flowing:
Pressure: 104 PSIG
Flow Temp: 76 DEG. F
Ambient Temp: DEG. F
Flow Rate: MCF/D
Sample Method:
Sample Date: 10/02/2020
Sample Time: 1.14 PM
Sampled By: Albert Montoya
Sampled by (CO): Harvest Mid

Heat Trace:

Remarks: Calculated Molecular Weight = 20.9756

Analysis

Component:	Mole%:	Unnormalized %:	**GPM:	*BTU:	*SP Gravity:
Nitrogen	0.0403	0.0406	0.0040	0.00	0.0004
CO2	17.2942	17.4163	2.9580	0.00	0.2628
Methane	82.1076	82.6874	13.9510	829.29	0.4548
Ethane	0.4827	0.4861	0.1290	8.54	0.0050
Propane	0.0659	0.0664	0.0180	1.66	0.0010
Iso-Butane	0.0039	0.0039	0.0010	0.13	0.0001
N-Butane	0.0035	0.0035	0.0010	0.11	0.0001
Neopentane 2,2 dmc3	0.0000	0.0000	0.0000	0.00	0.0000
I-Pentane	0.0000	0.0000	0.0000	0.00	0.0000
N-Pentane	0.0000	0.0000	0.0000	0.00	0.0000
Neohexane	0.0000	N/R	0.0000	0.00	0.0000
2-3-Dimethylbutane	0.0000	N/R	0.0000	0.00	0.0000
Cyclopentane	0.0000	N/R	0.0000	0.00	0.0000
2-Methylpentane	0.0002	N/R	0.0000	0.01	0.0000
3-Methylpentane	0.0001	N/R	0.0000	0.00	0.0000
C6	0.0001	0.0020	0.0000	0.00	0.0000
Methylcyclopentane	0.0001	N/R	0.0000	0.00	0.0000
Benzene	0.0000	N/R	0.0000	0.00	0.0000
Cyclohexane	0.0000	N/R	0.0000	0.00	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	0.0000	N/R	0.0000	0.00	0.0000
Heptane	0.0002	N/R	0.0000	0.01	0.0000

Methylcyclohexane	0.0002	N/R	0.0000	0.01	0.0000
Toluene	0.0002	N/R	0.0000	0.01	0.0000
2-Methylheptane	0.0000	N/R	0.0000	0.00	0.0000
4-Methylheptane	0.0000	N/R	0.0000	0.00	0.0000
i-Octanes	0.0000	N/R	0.0000	0.00	0.0000
Octane	0.0001	N/R	0.0000	0.01	0.0000
Ethylbenzene	0.0000	N/R	0.0000	0.00	0.0000
m, p Xylene	0.0002	N/R	0.0000	0.01	0.0000
o Xylene (& 2,2,4 tmc7)	0.0001	N/R	0.0000	0.01	0.0000
i-C9	0.0004	N/R	0.0000	0.03	0.0000
C9	0.0000	N/R	0.0000	0.00	0.0000
i-C10	0.0001	N/R	0.0000	0.01	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	100.706	17.062	839.84	0.7242

* @ 14.730 PSIA DRY & UNCORRECTED FOR COMPRESSIBILITY

**@ 14.730 PSIA & 60 DEG. F.

COMPRESSIBILITY FACTOR (1/Z): 1.0025
 BTU/CU.FT IDEAL: 841.8
 BTU/CU.FT (DRY) CORRECTED FOR (1/Z): 843.9
 BTU/CU.FT (WET) CORRECTED FOR (1/Z): 829.2
 DRY BTU @ 15.025: 860.8
 REAL SPECIFIC GRAVITY: 0.7257

CYLINDER #: 02
 CYLINDER PRESSURE: 96 PSIG
 ANALYSIS DATE: 10/06/2020
 ANALYSIS TIME: 01:41:09 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: 10/07/2020

GC Method: C12+BTEX Gas



HARVEST MIDSTREAM
WELL ANALYSIS COMPARISON

Lease: 31-6 CDP
Stn. No.: 62205
Mtr. No.:

Inlet To Station

10/07/2020
 33700-10430

Smpl Date:	10/02/2020	02/06/2020
Test Date:	10/06/2020	02/12/2020
Run No:	HM200089	HM200010
Nitrogen:	0.0403	0.1060
CO2:	17.2942	4.6174
Methane:	82.1076	93.6294
Ethane:	0.4827	1.2577
Propane:	0.0659	0.2628
I-Butane:	0.0039	0.0524
N-Butane:	0.0035	0.0427
2,2 dmc3:	0.0000	0.0000
I-Pentane:	0.0000	0.0095
N-Pentane:	0.0000	0.0054
Neohexane:	0.0000	0.0004
2-3-	0.0000	0.0003
Cyclopentane:	0.0000	0.0003
2-Methylpentane:	0.0002	0.0020
3-Methylpentane:	0.0001	0.0008
C6:	0.0001	0.0021
Methylcyclopentane:	0.0001	0.0015
Benzene:	0.0000	0.0006
Cyclohexane:	0.0000	0.0010
2-Methylhexane:	0.0000	0.0003
3-Methylhexane:	0.0000	0.0000
2-2-4-	0.0000	0.0001
i-heptanes:	0.0000	0.0003
Heptane:	0.0002	0.0010
Methylcyclohexane:	0.0002	0.0024
Toluene:	0.0002	0.0012
2-Methylheptane:	0.0000	0.0004
4-Methylheptane:	0.0000	0.0002
i-Octanes:	0.0000	0.0002
Octane:	0.0001	0.0006
Ethylbenzene:	0.0000	0.0000
m, p Xylene:	0.0002	0.0005
o Xylene (& 2,2,4	0.0001	0.0001
i-C9:	0.0004	0.0001
C9:	0.0000	0.0002
i-C10:	0.0001	0.0000
C10:	0.0000	0.0000
i-C11:	0.0000	0.0000
C11:	0.0000	0.0000
C12P:	0.0000	0.0000
BTU:	843.9	983.5
GPM:	17.0630	17.1580
SPG:	0.7257	0.6108

Location of Sample: 31-6		Meter Code & CK Digit: 60017-01 ^{96#}
Continuous Sampler Beginning Date:		Ending Date or Date Pulled: 10/2/20
Run Number:	Operator Code:	Line PSIG: 104
Cylinder Number: 02	Type Sample: <input checked="" type="checkbox"/> Spot <input type="checkbox"/> Continuous	Flow Temp.: 76
Remarks:		
33700-10430		HM 200089
Sample Taken By: Albert Montoya		Phone Number: (505) 419-6058

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
				53.3	0.24	11520.00	718.85	
				53.3	0.10	11520.00	124.60	
							SUM	843.45

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

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 38345

QUESTIONS

Operator: Harvest Four Corners, LLC 1111 Travis Street Houston, TX 77002	OGRID: 373888
	Action Number: 38345
	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, major 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 19.13.297 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	31-6 #49G
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	82
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	17
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	10:00 AM
Is the venting or flaring event complete	Yes
Date venting or flaring was terminated	07/15/2021
Time venting or flaring was terminated	10:00 AM
Total duration of venting or flaring in hours, if venting or flaring has terminated	192
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: 843 Mcf Recovered: 0 Mcf Lost: 843 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 by aerial leak detection survey. Investigation showed leak was a result of internal corrosion. Harvest could not have reasonably anticipated or prevented the cause of this leak.
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	Section of leaking pipeline was removed and replaced with new pipe before putting the line back into service.

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CONDITIONS

Action 38345

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Operator: Harvest Four Corners, LLC 1111 Travis Street Houston, TX 77002	OGRID: 373888
	Action Number: 38345
	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