



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

Analysis No: HM2021043
Cust No: 33700-10475

Well/Lease Information

Customer Name: HARVEST MIDSTREAM
Well Name: 32-8 #3 CDP
County/State: SAN JUAN NM
Location:
Lease/PA/CA:
Formation:
Cust. Stn. No.:

Source: Dehy Inlet
Well Flowing:
Pressure: 910 PSIG
Flow Temp: 86 DEG. F
Ambient Temp: 74 DEG. F
Flow Rate: 11 MCF/D
Sample Method: Purge & Fill
Sample Date: 05/04/2021
Sample Time: 2.30 PM
Sampled By: DANIEL LOVATO
Sampled by (CO): HARVEST

Heat Trace:

Remarks: Calculated Molecular Weight = 20.7124

Analysis

Component:	Mole%:	Unnormalized %:	**GPM:	*BTU:	*SP Gravity:
Nitrogen	0.0361	0.0365	0.0040	0.00	0.0003
CO2	16.1543	16.3504	2.7630	0.00	0.2455
Methane	82.9525	83.9596	14.0950	837.82	0.4595
Ethane	0.7093	0.7179	0.1900	12.55	0.0074
Propane	0.1088	0.1101	0.0300	2.74	0.0017
Iso-Butane	0.0147	0.0149	0.0050	0.48	0.0003
N-Butane	0.0191	0.0193	0.0060	0.62	0.0004
Neopentane 2,2 dmc3	0.0000	0.0000	0.0000	0.00	0.0000
I-Pentane	0.0045	0.0046	0.0020	0.18	0.0001
N-Pentane	0.0008	0.0008	0.0000	0.03	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	0.0000	N/R	0.0000	0.00	0.0000
3-Methylpentane	0.0000	N/R	0.0000	0.00	0.0000
C6	0.0000	0.0000	0.0000	0.00	0.0000
Methylcyclopentane	0.0000	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	0.0000	N/R	0.0000	0.00	0.0000

Methylcyclohexane	0.0000	N/R	0.0000	0.00	0.0000
Toluene	0.0000	N/R	0.0000	0.00	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	0.0000	N/R	0.0000	0.00	0.0000
Ethylbenzene	0.0000	N/R	0.0000	0.00	0.0000
m, p Xylene	0.0000	N/R	0.0000	0.00	0.0000
o Xylene (& 2,2,4 tmc7)	0.0000	N/R	0.0000	0.00	0.0000
i-C9	0.0000	N/R	0.0000	0.00	0.0000
C9	0.0000	N/R	0.0000	0.00	0.0000
i-C10	0.0000	N/R	0.0000	0.00	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	101.214	17.095	854.42	0.7151

* @ 14.730 PSIA DRY & UNCORRECTED FOR COMPRESSIBILITY

**@ 14.730 PSIA & 60 DEG. F.

COMPRESSIBILITY FACTOR (1/Z): 1.0025
 BTU/CU.FT IDEAL: 856.4
 BTU/CU.FT (DRY) CORRECTED FOR (1/Z): 858.5
 BTU/CU.FT (WET) CORRECTED FOR (1/Z): 843.6
 DRY BTU @ 15.025: 875.7
 REAL SPECIFIC GRAVITY: 0.7166

CYLINDER #: 103
 CYLINDER PRESSURE: 910 PSIG
 ANALYSIS DATE: 05/06/2021
 ANALYSIS TIME: 11:31:47 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: 05/11/2021

GC Method: C12+BTEX Gas



HARVEST MIDSTREAM
WELL ANALYSIS COMPARISON

Lease: 32-8 #3 CDP

Dehy Inlet

05/11/2021

Stn. No.:

33700-10475

Mtr. No.:

Smpl Date:	05/04/2021	05/01/2020
Test Date:	05/06/2021	05/06/2020
Run No:	HM2021043	HM200035
Nitrogen:	0.0361	0.0625
CO2:	16.1543	14.9424
Methane:	82.9525	84.0623
Ethane:	0.7093	0.7624
Propane:	0.1088	0.1354
I-Butane:	0.0147	0.0155
N-Butane:	0.0191	0.0170
2,2 dmc3:	0.0000	0.0000
I-Pentane:	0.0045	0.0016
N-Pentane:	0.0008	0.0009
Neohexane:	0.0000	0.0000
2-3-	0.0000	0.0000
Cyclopentane:	0.0000	0.0000
2-Methylpentane:	0.0000	0.0000
3-Methylpentane:	0.0000	0.0000
C6:	0.0000	0.0000
Methylcyclopentane:	0.0000	0.0000
Benzene:	0.0000	0.0000
Cyclohexane:	0.0000	0.0000
2-Methylhexane:	0.0000	0.0000
3-Methylhexane:	0.0000	0.0000
2-2-4-	0.0000	0.0000
i-heptanes:	0.0000	0.0000
Heptane:	0.0000	0.0000
Methylcyclohexane:	0.0000	0.0000
Toluene:	0.0000	0.0000
2-Methylheptane:	0.0000	0.0000
4-Methylheptane:	0.0000	0.0000
i-Octanes:	0.0000	0.0000
Octane:	0.0000	0.0000
Ethylbenzene:	0.0000	0.0000
m, p Xylene:	0.0000	0.0000
o Xylene (& 2,2,4	0.0000	0.0000
i-C9:	0.0000	0.0000
C9:	0.0000	0.0000
i-C10:	0.0000	0.0000
C10:	0.0000	0.0000
i-C11:	0.0000	0.0000
C11:	0.0000	0.0000
C12P:	0.0000	0.0000
BTU:	858.5	871.3
GPM:	17.0950	17.0980
SPG:	0.7166	0.7054

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

Other _____

Date 5/4/2021

Sampled By: (Co.)

Harvest Moisture

Time

1430 ☐ AM ☒ PM

Sampled by: (Person)

Daniel Lavato

Well Flowing:

☐ Yes ☐ No

Company: _____

Heat Trace:

☐ Yes ☐ No

Well Name: _____

Flow Pressure (PSIG):

910

Lease#:

32-8 #3

Flow Temp (°F):

86°

County:

San Juan

Formation: _____

Ambient Temp (°F):

74°

State:

N.M.

Location: _____

Flow Rate (MCF/D):

11mm

Source:

☐ Meter Run☐ Tubing☐ Casing☐ Bradenhead☒ OtherDEHY Fault

Sample Type:

☐ Spot☐ Composite

Sample Method:

☒ Purge & Fill☐ Other _____

Meter Number: _____

Cylinder Number:

103

Contact: _____

Remarks:

33700-10475HM 2021043

STANDARD 2-STAGE 1st Unit Type

Elevation	6645	Feet
Straddle Compression Suction Pressure	21	psig
Straddle Compression Interstage Pressure	43.232	psig
Common Suction Header Pressure	89	psig
Main Interstage Pressure	137.25	psig
Discharge Pressure	897	psig
Run Fuel/Starting Gas Pressure	130	psig
Instrument Gas Pressure	130	psig
Fuel Recovery Header Pressure	75	psig
Blowdown Pressure	0	psig
Purge Time =	60	sec
Engine Speed =	1000	RPM

P_{atm} =	11.50	psia
Unit Volume =	96	cu ft
Blowdown Volume =	1.81	MCF
Pounds of VOC's =	0.34	lbm
Equalized Volume, @ Ps =	211	SCF
Equalized Pressure =	279	psig
Purge Volume =	3.56	MCF
Gas Volume Lost Per Start =	5.27	MCF

STANDARD 2-STAGE 2nd Unit Type

Unit Volume =	174	cu ft
Blowdown Volume =	2.24	MCF
Pounds of VOC's =	0.42	lbm
Equalized Volume, @ Ps =	386	SCF
Equalized Pressure =	189	psig
Purge Volume =	3.61	MCF
Gas Volume Lost Per Start =	5.68	MCF

Compression Site Piping

Blowdown Volumes	17.43	MCF
VOC's Vented	3.28	lbm

Compression Site Dehydrator

Blowdown Volumes	7.9077	MCF
VOC's Vented	1.4869	lbm

Gas Composition

	<u>Mole %'s</u>	<u>Molar Mass</u>
	%	lbm/lbmol
N2	0.04	28.01
CO2	16.15	44.01
C1	82.95	16.04
C2	0.71	30.07
C3	0.11	44.10
i-C4	0.01	58.12
n-C4	0.02	58.12
i-C5	0.00	72.15
n-C5	0.00	72.15
C6+	0.00	86.18
sumcheck	100	(should = 100%)
MW	20.71	lbm/lbmol

Entire Compression Blowdown Volumes

# of Compressor Main Compressors	3	#
# of Straddle Compressors	1	#
# of Dehydration Units In Service	4	#
Blowdown Volume	56.74	MSCF
VOC's Vented	10.67	lbm

LINE LEAK OR CONTINUOUS PSV RELEASE CALCULATOR AND REPORTING
FOR USE FOR RELEASE REMAINING UNDER CONSTANT LINE PRESSURE (I.E. PSV RELIEVES)

Fill in Yellow Fields

ASSUMES NO PRESSURE LOSS AS RESULT OF LEAK

ENTERED BY WHOM	DATE	PSI	PORT DIAMETER IN INCHES	TIME IN MINUTES BLOWN	MCF LOST	COMMENTS
32-8 #3	3/14/2022	850.0	2.00	5.00	287.23	
					$(Diameter^2) * ((Pressure) (+11.7) * Minutes / 60)$	

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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
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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 90647

DEFINITIONS

Operator: Harvest Four Corners, LLC 1111 Travis Street Houston, TX 77002	OGRID: 373888
	Action Number: 90647
	Action Type: [C-129] Venting and/or Flaring (C-129)

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:

- this application's operator, hereinafter "this operator";
- venting and/or flaring, hereinafter "vent or flare";
- any notification or report(s) of the C-129 form family, hereinafter "any C-129 forms";
- the statements in (and/or attached to) this, hereinafter "the statements in this";
- and the past tense will be used in lieu of mixed past/present tense questions and statements.

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QUESTIONS

Action 90647

QUESTIONS

Operator: Harvest Four Corners, LLC 1111 Travis Street Houston, TX 77002	OGRID: 373888
	Action Number: 90647
	Action Type: [C-129] Venting and/or Flaring (C-129)

QUESTIONS**Prerequisites**

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 Well	Not answered.
Incident Facility	[fAPP2123052765] HARVEST FOUR CORNERS GATHER SYSTEM

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 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, minor 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 withing 300 feet from an occupied permanent residence, school, hospital, institution or church in existence	No

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	83
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	16
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.

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QUESTIONS, Page 2

Action 90647

QUESTIONS (continued)

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	Action Number: 90647
	Action Type: [C-129] Venting and/or Flaring (C-129)

QUESTIONS

Date(s) and Time(s)	
Date vent or flare was discovered or commenced	03/14/2022
Time vent or flare was discovered or commenced	01:03 PM
Time vent or flare was terminated	01:08 PM
Cumulative hours during this event	0

Measured or Estimated Volume of Vented or Flared Natural Gas	
Natural Gas Vented (Mcf) Details	Cause: Equipment Failure Valve Natural Gas Vented Released: 344 Mcf Recovered: 0 Mcf Lost: 344 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 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	Not answered.
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	Technicians were disabling the venting function of the ESD system for the facility. When technicians blew down the ESD system, the discharge ESD vent valve flew open, causing the release to atmosphere. Technicians attempted to close the valve, but were unsuccessful. Technicians then made the decision to ESD the site to reduce the amount of gas loss. Harvest could not have reasonably anticipated the valve failure happening while performing this action
Steps taken to limit the duration and magnitude of vent or flare	Harvest personnel immediately attempted to close the valve that failed during the maintenance event, but were unsuccessful. Harvest personnel then made the decision to ESD the site to limit the natural gas release
Corrective actions taken to eliminate the cause and reoccurrence of vent or flare	Harvest has disabled the venting function of the ESD system. A facility shutdown will no longer result in natural gas being vented to atmosphere

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ACKNOWLEDGMENTS

Action 90647

ACKNOWLEDGMENTS

Operator: Harvest Four Corners, LLC 1111 Travis Street Houston, TX 77002	OGRID: 373888
	Action Number: 90647
	Action Type: [C-129] Venting and/or Flaring (C-129)

ACKNOWLEDGMENTS

<input checked="" type="checkbox"/>	I acknowledge that I am authorized to submit a <i>Venting and/or Flaring</i> (C-129) report on behalf of this operator and understand that this report can be a complete C-129 submission per 19.15.27.8 and 19.15.28.8 NMAC.
<input checked="" type="checkbox"/>	I acknowledge that upon submitting this application, I will be creating a new incident file (assigned to this operator) to track any C-129 forms, pursuant to 19.15.27.7 and 19.15.28.8 NMAC and understand that this submission meets the notification requirements of Paragraph (1) of Subsection G and F respectively.
<input checked="" type="checkbox"/>	I hereby certify the statements in this 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.

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CONDITIONS

Action 90647

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	Action Number: 90647
	Action Type: [C-129] Venting and/or Flaring (C-129)

CONDITIONS

Created By	Condition	Condition Date
oakley.hayes	If the information provided in this report requires an amendment, submit a [C-129] Amend Venting and/or Flaring Incident (C-129A), utilizing your incident number from this event.	3/16/2022