



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

Analysis No: HM20220012
Cust No: 33700-10160

Well/Lease Information

Customer Name: HARVEST MIDSTREAM
Well Name: DOGIE DEHY INLET; MTR RUN
County/State:
Location:
Lease/PA/CA:
Formation:
Cust. Stn. No.:

Heat Trace: N
Remarks: Calculated Molecular Weight: 21.9332

Source: METER RUN
Well Flowing: Y
Pressure: 374 PSIG
Flow Temp: 100 DEG. F
Ambient Temp: 56 DEG. F
Flow Rate: 40 MCF/D
Sample Method: Purge & Fill
Sample Date: 03/28/2022
Sample Time: 11.30 AM
Sampled By: Cody Williams
Sampled by (CO): HARVEST MID.

Analysis

Component:	Mole%:	Unnormalized %:	**GPM:	*BTU:	*SP Gravity:
Nitrogen	1.1254	1.1126	0.1240	0.00	0.0109
CO2	0.7252	0.7169	0.1240	0.00	0.0110
Methane	76.2850	75.4150	12.9800	770.48	0.4225
Ethane	11.3510	11.2215	3.0470	200.88	0.1178
Propane	6.2479	6.1766	1.7280	157.20	0.0951
Iso-Butane	0.9055	0.8952	0.2970	29.45	0.0182
N-Butane	1.7631	1.7430	0.5580	57.52	0.0354
Neopentane 2,2 dmc3	0.0000	0.0000	0.0000	0.00	0.0000
I-Pentane	0.4622	0.4569	0.1700	18.49	0.0115
N-Pentane	0.3724	0.3682	0.1350	14.93	0.0093
Neohexane	0.0122	N/R	0.0050	0.58	0.0004
2-3-Dimethylbutane	0.0197	N/R	0.0080	0.93	0.0006
Cyclopentane	0.0205	N/R	0.0060	0.77	0.0005
2-Methylpentane	0.1329	N/R	0.0550	6.31	0.0040
3-Methylpentane	0.0425	N/R	0.0170	2.02	0.0013
C6	0.1444	0.7536	0.0600	6.87	0.0043
Methylcyclopentane	0.0997	N/R	0.0350	4.49	0.0029
Benzene	0.0131	N/R	0.0040	0.49	0.0004
Cyclohexane	0.0370	N/R	0.0130	1.66	0.0011
2-Methylhexane	0.0128	N/R	0.0060	0.70	0.0004
3-Methylhexane	0.0178	N/R	0.0080	0.97	0.0006
2-2-4-Trimethylpentane	0.0042	N/R	0.0020	0.26	0.0002
i-heptanes	0.0097	N/R	0.0040	0.52	0.0003
Heptane	0.0439	N/R	0.0200	2.42	0.0015

Methylcyclohexane	0.0727	N/R	0.0290	3.79	0.0025
Toluene	0.0238	N/R	0.0080	1.06	0.0008
2-Methylheptane	0.0136	N/R	0.0070	0.84	0.0005
4-Methylheptane	0.0075	N/R	0.0040	0.46	0.0003
i-Octanes	0.0077	N/R	0.0040	0.46	0.0003
Octane	0.0151	N/R	0.0080	0.94	0.0006
Ethylbenzene	0.0006	N/R	0.0000	0.03	0.0000
m, p Xylene	0.0067	N/R	0.0030	0.35	0.0002
o Xylene (& 2,2,4 tmc7)	0.0007	N/R	0.0000	0.04	0.0000
i-C9	0.0011	N/R	0.0010	0.07	0.0000
C9	0.0015	N/R	0.0010	0.10	0.0001
i-C10	0.0003	N/R	0.0000	0.02	0.0000
C10	0.0003	N/R	0.0000	0.02	0.0000
i-C11	0.0000	N/R	0.0000	0.00	0.0000
C11	0.0001	N/R	0.0000	0.01	0.0000
C12P	0.0001	N/R	0.0000	0.01	0.0000
Total	100.00	98.860	19.471	1286.14	0.7555

* @ 14.730 PSIA DRY & UNCORRECTED FOR COMPRESSIBILITY

**@ 14.730 PSIA & 60 DEG. F.

COMPRESSIBILITY FACTOR (1/Z): 1.0039
 BTU/CU.FT IDEAL: 1289.1
 BTU/CU.FT (DRY) CORRECTED FOR (1/Z): 1294.2
 BTU/CU.FT (WET) CORRECTED FOR (1/Z): 1271.7
 DRY BTU @ 15.025: 1320.1
 REAL SPECIFIC GRAVITY: 0.7582

CYLINDER #: 02
 CYLINDER PRESSURE: 353 PSIG
 ANALYSIS DATE: 04/01/2022
 ANALYSIS TIME: 04:12:52 AM
 ANALYSIS RUN BY: ELAINE MORRISON

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: 04/04/2022

GC Method: C12+BTEX Gas



HARVEST MIDSTREAM
WELL ANALYSIS COMPARISON

Lease: DOGIE DEHY INLET; MTR RUN METER RUN 04/04/2022
Stn. No.: 33700-10160
Mtr. No.:

Smpl Date:	03/28/2022	03/31/2021	03/04/2019
Test Date:	04/01/2022	04/13/2021	03/05/2019
Run No:	HM20220012	HM2021021	HM190012
Nitrogen:	1.1254	0.3390	2.0600
CO2:	0.7252	1.0547	0.5024
Methane:	76.2850	81.9825	73.1077
Ethane:	11.3510	9.0630	10.9844
Propane:	6.2479	4.0794	7.5875
I-Butane:	0.9055	0.7796	1.0553
N-Butane:	1.7631	1.2117	2.7190
2,2 dmc3:	0.0000	0.0023	0.0923
I-Pentane:	0.4622	0.4624	0.6668
N-Pentane:	0.3724	0.3332	0.6103
Neohexane:	0.0122	0.0108	0.0100
2-3-	0.0197	0.0165	0.0174
Cyclopentane:	0.0205	0.0172	0.0181
2-Methylpentane:	0.1329	0.1114	0.1174
3-Methylpentane:	0.0425	0.0438	0.0493
C6:	0.1444	0.1302	0.1296
Methylcyclopentane:	0.0997	0.0866	0.1035
Benzene:	0.0131	0.0151	0.0104
Cyclohexane:	0.0370	0.0375	0.0330
2-Methylhexane:	0.0128	0.0155	0.0106
3-Methylhexane:	0.0000	0.0000	0.0000
2-2-4-	0.0042	0.0037	0.0023
i-heptanes:	0.0097	0.0100	0.0063
Heptane:	0.0439	0.0406	0.0255
Methylcyclohexane:	0.0727	0.0681	0.0375
Toluene:	0.0238	0.0247	0.0077
2-Methylheptane:	0.0136	0.0112	0.0047
4-Methylheptane:	0.0075	0.0060	0.0027
i-Octanes:	0.0077	0.0059	0.0022
Octane:	0.0151	0.0120	0.0037
Ethylbenzene:	0.0006	0.0005	0.0003
m, p Xylene:	0.0067	0.0060	0.0014
o Xylene (& 2,2,4	0.0007	0.0006	0.0002
i-C9:	0.0011	0.0008	0.0003
C9:	0.0015	0.0014	0.0003
i-C10:	0.0003	0.0002	0.0002
C10:	0.0003	0.0002	0.0001
i-C11:	0.0000	0.0000	0.0000
C11:	0.0001	0.0001	0.0000
C12P:	0.0001	0.0000	0.0000
BTU:	1294.2	1228.6	1339.6
GPM:	19.5040	18.9580	19.7550
SPG:	0.7582	0.7131	0.7936



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

Date 3/28/2022

Sampled By: (co.) Harvest Midstream

Time 1130

☒ AM
☐ PM

Sampled by: (Person) Cody Wilkins

Well Flowing: ☒ Yes ☐ No

Company: Harvest

Heat Trace: ☐ Yes ☒ No

Well Name: Dogie Dehydrator

Flow Pressure (PSIG): 374

Lease#:

Flow Temp (°F): 100°

County: ADP

Formation:

Ambient Temp (°F): 56°

State: NM

Location: Dogie CS

Flow Rate (MCF/D): 40

Source: ☒ Meter Run ☐ Tubing ☐ Casing ☐ Bradenhead ☐ OtherSample Type: ☒ Spot ☐ Composite Sample Method: ☒ Purge & Fill ☐ Other

Meter Number:

Cylinder Number: 02

Contact:

Remarks: 33700-10160 HMD 02200007 12

Line Leak Calc

Orifice Diameter	0.151 inches
Pressure	145 psig
Time/date Discovered	9/1/2022 17:15
Time/date Isolated	9/1/2022 20:33
Total Hours Blown	3.30 hours
Area of Orifice	0.018 sq. inches

Lost Gas From Line Leak 10.873 Mcf

Blowdown Calc

Length	29,718 feet
Actual Pipe OD	10.750 inches
Wall Thickness	0.25 inches
Pressure	145 psig

Lost Gas From Blowdown 168.414 Mcf

Total Gas Loss	179.29 Mcf
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Lost Gas=(Orifice Diameter)^2*Pressure*Time Blown

Lost Gas=(Inside Diameter)^2*Pressure*Length*0.372/1000000

From: Oakley Hayes
Sent: Tuesday, September 20, 2022 12:37:45 PM
To: Ryan Joyner
Cc: Monica Smith
Subject: Harvest Four Corners, LLC - Release Notification

Page 6 of 11

Hello,
Today Harvest confirmed a release detected by a flyover indicating a line leak on the H-21 pipeline. The line was isolated, blown down and locked and tagged. No liquids were released. Release coordinates are not in a wash or near a wash. The pipeline is located on BLM surface ownership.

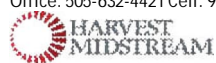
Unknown gas loss currently.

Lat, Long: 36.43249, -107.47795

We will provide additional information as soon as we have it. Please let me know if you have any questions.

Thank you,

Oakley Hayes
Environmental Specialist
Harvest Midstream Company
Office: 505-632-4421 Cell: 970-903-3203



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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
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
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Santa Fe, NM 87505

DEFINITIONS

Action 145333

DEFINITIONS

Operator: Harvest Four Corners, LLC 1111 Travis Street Houston, TX 77002	OGRID: 373888
	Action Number: 145333
	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: <ul style="list-style-type: none">• 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 145333

QUESTIONS

Operator: Harvest Four Corners, LLC 1111 Travis Street Houston, TX 77002	OGRID: 373888
	Action Number: 145333
	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	No
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 within 300 feet from an occupied permanent residence, school, hospital, institution or church in existence	No

Equipment Involved

Primary Equipment Involved	Pipeline (Any)
Additional details for Equipment Involved. Please specify	Pipeline Leak

Representative Compositional Analysis of Vented or Flared Natural Gas

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

Methane (CH4) percentage	76
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.

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QUESTIONS, Page 2

Action 145333

QUESTIONS (continued)

Operator: Harvest Four Corners, LLC 1111 Travis Street Houston, TX 77002	OGRID: 373888
	Action Number: 145333
	Action Type: [C-129] Venting and/or Flaring (C-129)

QUESTIONS

Date(s) and Time(s)	
Date vent or flare was discovered or commenced	09/14/2022
Time vent or flare was discovered or commenced	05:15 PM
Time vent or flare was terminated	08:33 PM
Cumulative hours during this event	3

Measured or Estimated Volume of Vented or Flared Natural Gas	
Natural Gas Vented (Mcf) Details	Cause: Corrosion Pipeline (Any) Natural Gas Vented Released: 179 Mcf Recovered: 0 Mcf Lost: 179 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	The pipeline leak was due to corrosion on the pipe. The pipeline was shut in on 9/1/2022. An initial pressure test was preformed which indicated a possible leak. On 9/13/2022 operations were able to dig the location of the suspected leak and were able to verify a leak on the pipeline. Repairs to the pipeline were made on 9/13, and the line placed back into service.
Steps taken to limit the duration and magnitude of vent or flare	Line was shut immediately on 9/1/2022, was a drop in pressure was seen.
Corrective actions taken to eliminate the cause and reoccurrence of vent or flare	Pipeline repairs made.

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ACKNOWLEDGMENTS

Action 145333

ACKNOWLEDGMENTS

Operator: Harvest Four Corners, LLC 1111 Travis Street Houston, TX 77002	OGRID: 373888
	Action Number: 145333
	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 145333

CONDITIONS

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	Action Number: 145333
	Action Type: [C-129] Venting and/or Flaring (C-129)

CONDITIONS

Created By	Condition	Condition Date
mosmith	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.	9/21/2022