



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

Analysis No: HM20230047  
Cust No: 33700-10220

### Well/Lease Information

Customer Name: HARVEST MIDSTREAM  
Well Name: TRUNK H CDP  
County/State: NM  
Location:  
Lease/PA/CA:  
Formation:  
Cust. Stn. No.:

Source:  
Well Flowing: Y  
Pressure: 125 PSIG  
Flow Temp: 103 DEG. F  
Ambient Temp: DEG. F  
Flow Rate: MCF/D  
Sample Method:  
Sample Date: 04/27/2023  
Sample Time: 9.02 AM  
Sampled By: Kane Morgan  
Sampled by (CO): HARVEST MID

Heat Trace:

Remarks: Calculated Molecular Weight = 21.0763

### Analysis

Component:	Mole%:	Unnormalized %:	**GPM:	*BTU:	*SP Gravity:
Nitrogen	0.3629	0.3640	0.0400	0.00	0.0035
CO2	0.7989	0.8013	0.1370	0.00	0.0121
Methane	80.0738	80.3104	13.6200	808.75	0.4435
Ethane	10.3525	10.3831	2.7780	183.21	0.1075
Propane	4.5865	4.6001	1.2680	115.40	0.0698
Iso-Butane	0.8181	0.8205	0.2690	26.60	0.0164
N-Butane	1.2786	1.2824	0.4040	41.71	0.0257
Neopentane 2,2 dmc3	0.1323	0.1327	0.0510	5.27	0.0033
I-Pentane	0.4621	0.4635	0.1700	18.49	0.0115
N-Pentane	0.3411	0.3421	0.1240	13.67	0.0085
Neohexane	0.0156	N/R	0.0070	0.74	0.0005
2-3-Dimethylbutane	0.0183	N/R	0.0080	0.87	0.0005
Cyclopentane	0.0191	N/R	0.0060	0.72	0.0005
2-Methylpentane	0.1234	N/R	0.0510	5.86	0.0037
3-Methylpentane	0.0471	N/R	0.0190	2.24	0.0014
C6	0.1493	0.7954	0.0620	7.10	0.0044
Methylcyclopentane	0.1031	N/R	0.0370	4.64	0.0030
Benzene	0.0153	N/R	0.0040	0.57	0.0004
Cyclohexane	0.0434	N/R	0.0150	1.95	0.0013
2-Methylhexane	0.0167	N/R	0.0080	0.91	0.0006
3-Methylhexane	0.0190	N/R	0.0090	1.04	0.0007
2-2-4-Trimethylpentane	0.0047	N/R	0.0020	0.29	0.0002
i-heptanes	0.0125	N/R	0.0050	0.66	0.0004
Heptane	0.0494	N/R	0.0230	2.72	0.0017

Methylcyclohexane	0.0815	N/R	0.0330	4.25	0.0028
Toluene	0.0291	N/R	0.0100	1.30	0.0009
2-Methylheptane	0.0118	N/R	0.0060	0.73	0.0005
4-Methylheptane	0.0063	N/R	0.0030	0.39	0.0002
i-Octanes	0.0053	N/R	0.0030	0.32	0.0002
Octane	0.0118	N/R	0.0060	0.74	0.0005
Ethylbenzene	0.0005	N/R	0.0000	0.03	0.0000
m, p Xylene	0.0050	N/R	0.0020	0.26	0.0002
o Xylene (& 2,2,4 tmc7)	0.0010	N/R	0.0000	0.05	0.0000
i-C9	0.0010	N/R	0.0010	0.07	0.0000
C9	0.0011	N/R	0.0010	0.08	0.0000
i-C10	0.0013	N/R	0.0010	0.09	0.0001
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	100.296	19.183	1251.74	0.7266

\* @ 14.730 PSIA DRY & UNCORRECTED FOR COMPRESSIBILITY

\*\*@ 14.730 PSIA & 60 DEG. F.

COMPRESSIBILITY FACTOR (1/Z): 1.0036  
 BTU/CU.FT IDEAL: 1254.6  
 BTU/CU.FT (DRY) CORRECTED FOR (1/Z): 1259.2  
 BTU/CU.FT (WET) CORRECTED FOR (1/Z): 1237.3  
 DRY BTU @ 15.025: 1284.4  
 REAL SPECIFIC GRAVITY: 0.7289

CYLINDER #: 112  
 CYLINDER PRESSURE: 138 PSIG  
 ANALYSIS DATE: 05/05/2023  
 ANALYSIS TIME: 09:34:19 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: 05/05/2023**

**GC Method: C12+BTEX Gas**



HARVEST MIDSTREAM  
WELL ANALYSIS COMPARISON

**Lease:** TRUNK H CDP

05/05/2023

**Stn. No.:**

33700-10220

**Mtr. No.:**

Smpl Date:	04/27/2023	06/29/2022	04/29/2022	12/21/2021	10/22/2020	04/26/2019
Test Date:	05/05/2023	07/06/2022	05/09/2022	12/28/2021	10/27/2020	05/02/2019
Run No:	HM20230047	HM20220069	HM20220043	HM2021108	HM200091	HM190027
Nitrogen:	0.3629	0.3965	0.4767	0.6014	0.3848	0.3876
CO2:	0.7989	0.8094	0.7851	0.7599	0.8758	0.8191
Methane:	80.0738	79.7448	79.9583	79.9165	78.9157	78.4802
Ethane:	10.3525	10.4874	10.1975	10.2573	10.5653	10.9918
Propane:	4.5865	4.8327	4.6630	4.6740	4.7994	5.0850
I-Butane:	0.8181	0.8748	0.8285	0.8280	0.8928	0.8891
N-Butane:	1.2786	1.3622	1.2964	1.3103	1.4434	1.4800
2,2 dmc3:	0.1323	0.0000	0.0000	0.0000	0.0000	0.0083
I-Pentane:	0.4621	0.4834	0.4779	0.4800	0.5516	0.5478
N-Pentane:	0.3411	0.3839	0.3534	0.3616	0.4254	0.4063
Neohexane:	0.0156	0.0089	0.0151	0.0118	0.0148	0.0188
2-3-	0.0183	0.0125	0.0200	0.0201	0.0271	0.0181
Cyclopentane:	0.0191	0.0130	0.0208	0.0209	0.0282	0.0188
2-Methylpentane:	0.1234	0.0842	0.1347	0.1354	0.1823	0.1217
3-Methylpentane:	0.0471	0.0293	0.0490	0.0579	0.0769	0.0583
C6:	0.1493	0.1022	0.1650	0.1490	0.2126	0.1455
Methylcyclopentane:	0.1031	0.0730	0.1164	0.0987	0.1423	0.1145
Benzene:	0.0153	0.0108	0.0163	0.0173	0.0214	0.0199
Cyclohexane:	0.0434	0.0324	0.0536	0.0475	0.0697	0.0528
2-Methylhexane:	0.0167	0.0130	0.0210	0.0171	0.0303	0.0227
3-Methylhexane:	0.0000	0.0000	0.0001	0.0000	0.0000	0.0000
2-2-4-	0.0047	0.0045	0.0065	0.0042	0.0066	0.0075
i-heptanes:	0.0125	0.0094	0.0149	0.0126	0.0196	0.0152
Heptane:	0.0494	0.0434	0.0660	0.0449	0.0726	0.0615
Methylcyclohexane:	0.0815	0.0746	0.1125	0.0791	0.1152	0.0986
Toluene:	0.0291	0.0291	0.0361	0.0273	0.0372	0.0336
2-Methylheptane:	0.0118	0.0145	0.0203	0.0124	0.0175	0.0195
4-Methylheptane:	0.0063	0.0075	0.0106	0.0065	0.0099	0.0112
i-Octanes:	0.0053	0.0096	0.0124	0.0049	0.0057	0.0080
Octane:	0.0118	0.0172	0.0238	0.0131	0.0176	0.0202
Ethylbenzene:	0.0005	0.0009	0.0011	0.0006	0.0007	0.0007
m, p Xylene:	0.0050	0.0110	0.0116	0.0066	0.0070	0.0078
o Xylene (& 2,2,4	0.0010	0.0038	0.0012	0.0007	0.0006	0.0006
i-C9:	0.0010	0.0019	0.0027	0.0006	0.0008	0.0012
C9:	0.0011	0.0001	0.0039	0.0013	0.0015	0.0020
i-C10:	0.0013	0.0015	0.0032	0.0005	0.0002	0.0001
C10:	0.0004	0.0007	0.0001	0.0001	0.0001	0.0002
i-C11:	0.0000	0.0000	0.0001	0.0000	0.0000	0.0000
C11:	0.0000	0.0002	0.0006	0.0001	0.0001	0.0000
C12P:	0.0000	0.0001	0.0002	0.0001	0.0000	0.0000
BTU:	1259.2	1258.6	1263.0	1256.5	1283.7	1283.2
GPM:	19.1650	19.2120	19.2320	19.1910	19.4010	19.4050
SPG:	0.7289	0.7290	0.7325	0.7291	0.7463	0.7450



138#

☐ Helium ☐ Hydrogen ☐ Oxygen  
☐ C6+ ☐ C9+ ☐ BTEX

2030 Afton Place, Farmington, NM 87401 • 505/325-6622

Company Havest midstream

Pressure (PSIG) 125 psig

Well Name Trunk H

Sample Temp (Deg. F) 103

Location/Source Main Discharge

Well Flowing ☒ Yes ☐ No

Lease/County Rio arriba

Date Sampled 4-27-23

Formation \_\_\_\_\_

Sampled By Kam mory

Meter No \_\_\_\_\_

Cylinder No. 112/PCA/325

Contact Kam mory

Remarks \_\_\_\_\_

san juan reproduction - g

33700-10220



HM 20230047

**Line Leak Calc**

Maximum Flow Rate	543 Mcfd
% Open	10%
Pressure	84 psig
Time/date Discovered	7/16/2023 9:54
Time/date Isolated	7/17/2023 12:30
Total Hours Blown	26.60 hours

**Lost Gas From Dump Valve****60.2 Mcf**

## Kimray Gas Sizing Calculator

Gas Specific Gravity	.73
Flowing Temp. <span>°fahrenheit ▼</span>	65
Critical Flow Factor ( $C_f$ )	.94
Upstream Pressure <span>psig ▼</span>	84
*** Based on your current inputs, Critical Flow would begin when Upstream Pressure is greater than or equal to:	
Downstream Pressure	1
*** Based on your current inputs, Critical Flow would begin when Downstream Pressure is less than or equal to:	
Flow Rate <span>mcf/d ▼</span>	542.8768063
<b>Calculate Cv</b> 	
Valve Flow Coefficient ( $C_v$ )	5.72
<b>Calculate Flow Rate</b> 	

1" Cf & Cv VALUES				
Line Size	Flow Characteristic	Trim Size	Cf	Cv
1"	Quick Opening (Carbide)	1/8"	0.73	0.45
		3/16"	0.74	1.00
		1/4"	0.68	1.93
		3/8"	0.74	3.86
	Nominal	1/2"	0.90	5.70
		1/8"	0.58	1.06
		3/16"	0.59	1.51
		1/4"	0.78	2.17
		3/8"	0.91	3.22
		1/2"	0.94	5.72

Assumed 1/2" nominal trim size

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**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 243670

DEFINITIONS

Operator: Harvest Four Corners, LLC 1755 Arroyo Dr Bloomfield, NM 87413	OGRID: 373888
	Action Number: 243670
	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"><li>• this application's operator, hereinafter "this operator";</li><li>• venting and/or flaring, hereinafter "vent or flare";</li><li>• any notification or report(s) of the C-129 form family, hereinafter "any C-129 forms";</li><li>• the statements in (and/or attached to) this, hereinafter "the statements in this";</li><li>• and the past tense will be used in lieu of mixed past/present tense questions and statements.</li></ul>
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QUESTIONS

Action 243670

**QUESTIONS**

Operator: Harvest Four Corners, LLC 1755 Arroyo Dr Bloomfield, NM 87413	OGRID: 373888
	Action Number: 243670
	Action Type: [C-129] Venting and/or Flaring (C-129)

**QUESTIONS**

<b>Prerequisites</b>	
<i>Any messages presented in this section, will prevent submission of this application. Please resolve these issues before continuing with the rest of the questions.</i>	
Incident Well	Unavailable.
Incident Facility	[fAPP2123052765] HARVEST FOUR CORNERS GATHER SYSTEM

<b>Determination of Reporting Requirements</b>	
<i>Answer all questions that apply. The Reason(s) statements are calculated based on your answers and may provide additional guidance.</i>	
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	Yes
Is this considered a submission for a vent or flare event	Yes, minor venting and/or flaring of natural gas.
<i>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.</i>	
Was there <b>at least 50 MCF</b> of natural gas vented and/or flared during this event	Yes
Did this vent or flare result in the release of <b>ANY</b> 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

<b>Equipment Involved</b>	
Primary Equipment Involved	Gas Compressor Station
Additional details for Equipment Involved. Please specify	Third stage dump controller leaking internally, leaking to tank

<b>Representative Compositional Analysis of Vented or Flared Natural Gas</b>	
<i>Please provide the mole percent for the percentage questions in this group.</i>	
Methane (CH4) percentage	80
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	1
Oxygen (O2) percentage, if greater than one percent	0
<i>If you are venting and/or flaring because of Pipeline Specification, please provide the required specifications for each gas.</i>	
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 243670

**QUESTIONS (continued)**

Operator: Harvest Four Corners, LLC 1755 Arroyo Dr Bloomfield, NM 87413	OGRID: 373888
	Action Number: 243670
	Action Type: [C-129] Venting and/or Flaring (C-129)

**QUESTIONS**

Date(s) and Time(s)	
Date vent or flare was discovered or commenced	07/12/2023
Time vent or flare was discovered or commenced	12:00 PM
Time vent or flare was terminated	12:30 PM
Cumulative hours during this event	27

Measured or Estimated Volume of Vented or Flared Natural Gas	
Natural Gas Vented (Mcf) Details	Cause: Normal Operations   Tank ( Any)   Natural Gas Vented   Released: 60 Mcf   Recovered: 0 Mcf   Lost: 60 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	No
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	dump control was stuck in the open position
Steps taken to limit the duration and magnitude of vent or flare	upon discovery of leak operations traced the leak in the facility and determined that it was a dump controller leaking internally. Scrubber dump was found and shut in unit was taken down for repairs to be made. Repairs included the replacement of the nor seal controller.
Corrective actions taken to eliminate the cause and reoccurrence of vent or flare	upon discovery of leak operations traced the leak in the facility and determined that it was a dump controller leaking internally. Scrubber dump was found and shut in unit was taken down for repairs to be made. Repairs included the replacement of the nor seal controller.



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ACKNOWLEDGMENTS

Action 243670

**ACKNOWLEDGMENTS**

Operator: Harvest Four Corners, LLC 1755 Arroyo Dr Bloomfield, NM 87413	OGRID: 373888
	Action Number: 243670
	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 <b>complete</b> 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 243670

CONDITIONS

Operator: Harvest Four Corners, LLC 1755 Arroyo Dr Bloomfield, NM 87413	OGRID: 373888
	Action Number: 243670
	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.	7/24/2023