



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

Analysis No: HM20230264  
Cust No: 33700-10025

### Well/Lease Information

Customer Name:	HARVEST MIDSTREAM	Source:	METER RUN
Well Name:	CHACO COMP INLET	Well Flowing:	
County/State:		Pressure:	160 PSIG
Location:		Flow Temp:	59 DEG. F
Lease/PA/CA:		Ambient Temp:	73 DEG. F
Formation:		Flow Rate:	38000 MCF/D
Cust. Stn. No.:	0247730	Sample Method:	Purge & Fill
		Sample Date:	11/06/2023
		Sample Time:	12.45 PM
		Sampled By:	ANTHONEY L.
		Sampled by (CO):	HARVEST
Heat Trace:			
Remarks:	Calculated Molecular Weight: 19.7167		

### Analysis

Component:	Mole%:	Unnormalized %:	**GPM:	*BTU:	*SP Gravity:
Nitrogen	0.4038	0.4107	0.0450	0.00	0.0039
CO2	1.7637	1.7940	0.3020	0.00	0.0268
Methane	85.3082	86.7746	14.5020	861.61	0.4725
Ethane	7.0502	7.1714	1.8910	124.77	0.0732
Propane	3.0211	3.0730	0.8350	76.01	0.0460
Iso-Butane	0.5580	0.5676	0.1830	18.15	0.0112
N-Butane	0.8122	0.8262	0.2570	26.50	0.0163
Neopentane 2,2 dmc3	0.0374	0.0380	0.0140	1.49	0.0009
I-Pentane	0.3178	0.3233	0.1170	12.72	0.0079
N-Pentane	0.2413	0.2454	0.0880	9.67	0.0060
Neohexane	0.0093	N/R	0.0040	0.44	0.0003
2-3-Dimethylbutane	0.0133	N/R	0.0050	0.63	0.0004
Cyclopentane	0.0139	N/R	0.0040	0.52	0.0003
2-Methylpentane	0.0899	N/R	0.0370	4.27	0.0027
3-Methylpentane	0.0300	N/R	0.0120	1.43	0.0009
C6	0.0947	0.4947	0.0390	4.50	0.0028
Methylcyclopentane	0.0584	N/R	0.0210	2.63	0.0017
Benzene	0.0113	N/R	0.0030	0.42	0.0003
Cyclohexane	0.0253	N/R	0.0090	1.13	0.0007
2-Methylhexane	0.0098	N/R	0.0050	0.53	0.0003
3-Methylhexane	0.0097	N/R	0.0040	0.53	0.0003
2-2-4-Trimethylpentane	0.0022	N/R	0.0010	0.14	0.0001
i-heptanes	0.0064	N/R	0.0030	0.34	0.0002
Heptane	0.0239	N/R	0.0110	1.32	0.0008

Methylcyclohexane	0.0493	N/R	0.0200	2.57	0.0017
Toluene	0.0182	N/R	0.0060	0.81	0.0006
2-Methylheptane	0.0054	N/R	0.0030	0.33	0.0002
4-Methylheptane	0.0026	N/R	0.0010	0.16	0.0001
i-Octanes	0.0022	N/R	0.0010	0.13	0.0001
Octane	0.0050	N/R	0.0030	0.31	0.0002
Ethylbenzene	0.0003	N/R	0.0000	0.02	0.0000
m, p Xylene	0.0028	N/R	0.0010	0.14	0.0001
o Xylene (& 2,2,4 tmc7)	0.0005	N/R	0.0000	0.03	0.0000
i-C9	0.0006	N/R	0.0000	0.04	0.0000
C9	0.0004	N/R	0.0000	0.03	0.0000
i-C10	0.0007	N/R	0.0000	0.05	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	101.719	18.427	1154.39	0.6798

\* @ 14.730 PSIA DRY & UNCORRECTED FOR COMPRESSIBILITY

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

COMPRESSIBILITY FACTOR (1/Z):	1.003	CYLINDER #:	12
BTU/CU.FT IDEAL:	1157.1	CYLINDER PRESSURE:	176 PSIG
BTU/CU.FT (DRY) CORRECTED FOR (1/Z):	1160.5	ANALYSIS DATE:	11/08/2023
BTU/CU.FT (WET) CORRECTED FOR (1/Z):	1140.3	ANALYSIS TIME:	02:12:11 AM
DRY BTU @ 15.025:	1183.7	ANALYSIS RUN BY:	ELAINE MORRISON
REAL SPECIFIC GRAVITY:	0.6816		

**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: 11/08/2023**

**GC Method: C12+BTEX Gas**



HARVEST MIDSTREAM  
WELL ANALYSIS COMPARISON

Lease: CHACO COMP INLET

METER RUN

11/08/2023

Stn. No.: 0247730

33700-10025

Mtr. No.:

Smpl Date:	11/06/2023	11/14/2022	08/11/2020	11/27/2018
Test Date:	11/08/2023	11/17/2022	08/12/2020	11/29/2018
Run No:	HM20230264	HM20220111	HM200072	HM180006
Nitrogen:	0.4038	0.3258	0.3239	0.3306
CO2:	1.7637	1.6165	1.6810	1.9364
Methane:	85.3082	85.5098	86.1555	85.6254
Ethane:	7.0502	7.1888	6.9526	7.0286
Propane:	3.0211	3.0555	2.9218	2.9810
I-Butane:	0.5580	0.5669	0.5115	0.5417
N-Butane:	0.8122	0.8123	0.7629	0.7937
2,2 dmc3:	0.0374	0.0000	0.0012	0.0021
I-Pentane:	0.3178	0.2962	0.2639	0.2733
N-Pentane:	0.2413	0.2165	0.1903	0.1943
Neohexane:	0.0093	0.0101	0.0051	0.0111
2-3-	0.0133	0.0099	0.0095	0.0077
Cyclopentane:	0.0139	0.0103	0.0099	0.0080
2-Methylpentane:	0.0899	0.0667	0.0640	0.0518
3-Methylpentane:	0.0300	0.0257	0.0180	0.0246
C6:	0.0947	0.0815	0.0496	0.0563
Methylcyclopentane:	0.0584	0.0546	0.0252	0.0389
Benzene:	0.0113	0.0100	0.0039	0.0090
Cyclohexane:	0.0253	0.0231	0.0090	0.0193
2-Methylhexane:	0.0098	0.0078	0.0032	0.0057
3-Methylhexane:	0.0000	0.0000	0.0000	0.0000
2-2-4-	0.0022	0.0023	0.0006	0.0010
i-heptanes:	0.0064	0.0057	0.0018	0.0035
Heptane:	0.0239	0.0222	0.0062	0.0120
Methylcyclohexane:	0.0493	0.0407	0.0103	0.0228
Toluene:	0.0182	0.0149	0.0045	0.0076
2-Methylheptane:	0.0054	0.0044	0.0020	0.0019
4-Methylheptane:	0.0026	0.0022	0.0010	0.0009
i-Octanes:	0.0022	0.0014	0.0013	0.0005
Octane:	0.0050	0.0042	0.0026	0.0016
Ethylbenzene:	0.0003	0.0003	0.0002	0.0001
m, p Xylene:	0.0028	0.0024	0.0027	0.0008
o Xylene (& 2,2,4	0.0005	0.0005	0.0004	0.0002
i-C9:	0.0006	0.0004	0.0003	0.0005
C9:	0.0004	0.0004	0.0007	0.0003
i-C10:	0.0007	0.0005	0.0003	0.0003
C10:	0.0002	0.0002	0.0002	0.0003
i-C11:	0.0000	0.0000	0.0000	0.0000
C11:	0.0000	0.0000	0.0000	0.0001
C12P:	0.0000	0.0001	0.0001	0.0000
BTU:	1160.5	1159.2	1143.7	1146.5
GPM:	18.4370	18.4360	18.3200	18.3630
SPG:	0.6816	0.6774	0.6683	0.6744



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C6+ ☐C9+ ☐C12+ BTEX ☐Helium ☐Sulfurs ☐Ext. Liquid ☐Other ExtendedDate 11-6-2023Sampled By: (Co.) Harvest MidstreamTime 1245☒ AM  
☐ PMSampled by: (Person) Anthony LewisWell Flowing: ☐ Yes ☐ NoCompany: Harvest MidstreamHeat Trace: ☐ Yes ☐ NoWell Name: Chaco Compressor InletFlow Pressure (PSIG): 160

API #:

Flow Temp (°F): 59°

Lease#:

Ambient Temp (°F): 73°County: San JuanState: NMFormation: Conv.Flow Rate (MCF/D): 38000Source: ☒ Meter Run ☐ Tubing ☐ Casing ☐ Bradenhead ☐ OtherSample Type: ☒ Spot ☐ Composite Sample Method: ☒ Purge & Fill ☐ OtherMeter Number: NA Chaco Comp InletCylinder Number: 12Contact: Harvest EnvironmentalRemarks: 33700 - 10025Hm20230264

**Line Leak Calc**

Orifice Diameter	0.957 inches
Pressure	454 psig
Time/date Discovered	12/29/2023 11:48
Time/date Isolated	12/29/2023 11:57
Total Hours Blown	0.15 hours
Area of Orifice	0.719 sq. inches

**Lost Gas From Line Leak                      62.369 Mcf**

**ESD Blowdown Volume                      37.26 Mcf**

<b>Total Gas Loss                      99.63 Mcf</b>
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Lost Gas=(Orifice Diameter)^2\*Pressure\*Time Blown

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

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**District IV**  
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**State of New Mexico**  
**Energy, Minerals and Natural Resources**  
**Oil Conservation Division**  
**1220 S. St Francis Dr.**  
**Santa Fe, NM 87505**

DEFINITIONS  
  
Action 299470

DEFINITIONS

Operator: Harvest Four Corners, LLC 1755 Arroyo Dr Bloomfield, NM 87413	OGRID: 373888
	Action Number: 299470
	Action Type: [C-129] Amend Venting and/or Flaring (C-129A)

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 299470

QUESTIONS

Operator: Harvest Four Corners, LLC 1755 Arroyo Dr Bloomfield, NM 87413	OGRID: 373888
	Action Number: 299470
	Action Type: [C-129] Amend Venting and/or Flaring (C-129A)

QUESTIONS

<b>Prerequisites</b> 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 ID (n#)	Unavailable.
Incident Name	Unavailable.
Incident Type	Flare
Incident Status	Unavailable.
Incident Facility	[fAPP2123052765] HARVEST FOUR CORNERS GATHER SYSTEM
Only valid Vent, Flare or Vent with Flaring incidents (selected above in the Application Details section) that are assigned to your current operator can be amended with this C-129A application.	

<b>Determination of Reporting Requirements</b> 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 within 300 feet from an occupied permanent residence, school, hospital, institution or church in existence	No

<b>Equipment Involved</b>	
Primary Equipment Involved	Valve
Additional details for Equipment Involved. Please specify	Not answered.

<b>Representative Compositional Analysis of Vented or Flared Natural Gas</b> 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 (CO2) percentage, if greater than one percent	2
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 299470

QUESTIONS (continued)

Operator: Harvest Four Corners, LLC 1755 Arroyo Dr Bloomfield, NM 87413	OGRID:
	373888
	Action Number:
	299470
Action Type:	
[C-129] Amend Venting and/or Flaring (C-129A)	

QUESTIONS

Date(s) and Time(s)	
Date vent or flare was discovered or commenced	12/29/2023
Time vent or flare was discovered or commenced	11:48 AM
Time vent or flare was terminated	11:57 AM
Cumulative hours during this event	0

Measured or Estimated Volume of Vented or Flared Natural Gas	
Natural Gas Vented (Mcf) Details	Cause: Freeze   Valve   Natural Gas Vented   Released: 100 Mcf   Recovered: 0 Mcf   Lost: 100 Mcf.
Natural Gas Flared (Mcf) Details	Not answered.
Other Released Details	Cause:     Other (Specify)   Released: 0 (Unknown Released Amount)   Recovered: 0   Lost: 0 .
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	
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	This event was caused by freezing occurring in a valve. Harvest could not have prevented the expansion and contraction associated with the freezing temperatures.
Steps taken to limit the duration and magnitude of vent or flare	Upon being notified that there was a potential problem, Harvest immediately dispatched personnel to investigate. After confirming the leak, Harvest personnel immediately isolated and stopped the leak.
Corrective actions taken to eliminate the cause and reoccurrence of vent or flare	Harvest removed and replaced the broken valve



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ACKNOWLEDGMENTS  
  
Action 299470

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Operator: Harvest Four Corners, LLC 1755 Arroyo Dr Bloomfield, NM 87413	OGRID: 373888
	Action Number: 299470
	Action Type: [C-129] Amend Venting and/or Flaring (C-129A)

ACKNOWLEDGMENTS

<input checked="" type="checkbox"/>	I acknowledge that with this application I will be amending an existing incident file (assigned to this operator) for a vent or flare event, pursuant to 19.15.27 and 19.15.28 NMAC.
<input checked="" type="checkbox"/>	I acknowledge that amending an incident file does not replace original submitted application(s) or information and understand that any C-129 forms submitted to the OCD will be logged and stored as public record.
<input checked="" type="checkbox"/>	I hereby certify the statements in this amending 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 299470

CONDITIONS

Operator: Harvest Four Corners, LLC 1755 Arroyo Dr Bloomfield, NM 87413	OGRID: 373888
	Action Number: 299470
	Action Type: [C-129] Amend Venting and/or Flaring (C-129A)

CONDITIONS

Created By	Condition	Condition Date
oakley.hayes	If the information provided in this report requires further amendment(s), submit a [C-129] Amend Venting and/or Flaring Incident (C-129A), utilizing your incident number from this event.	1/3/2024