



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

Analysis No: HM2021103  
Cust No: 33700-10200

### Well/Lease Information

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

Source:  
Well Flowing:  
Pressure: 408 PSIG  
Flow Temp: 74 DEG. F  
Ambient Temp: DEG. F  
Flow Rate: MCF/D  
Sample Method:  
Sample Date: 12/01/2021  
Sample Time: 12.00 AM  
Sampled By: Dan M.  
Sampled by (CO): HARVEST MID.

Heat Trace:

Remarks: Calculated Molecular Weight:= 19.706

### Analysis

Component:	Mole%:	Unnormalized %:	**GPM:	*BTU:	*SP Gravity:
Nitrogen	0.3266	0.3285	0.0360	0.00	0.0032
CO2	1.6744	1.6842	0.2870	0.00	0.0254
Methane	84.8078	85.3025	14.4170	856.56	0.4698
Ethane	7.7525	7.7977	2.0790	137.20	0.0805
Propane	3.1332	3.1515	0.8660	78.84	0.0477
Iso-Butane	0.5704	0.5737	0.1870	18.55	0.0114
N-Butane	0.8366	0.8415	0.2640	27.29	0.0168
Neopentane 2,2 dmc3	0.0000	0.0000	0.0000	0.00	0.0000
I-Pentane	0.2895	0.2912	0.1060	11.58	0.0072
N-Pentane	0.2146	0.2159	0.0780	8.60	0.0053
Neohexane	0.0065	N/R	0.0030	0.31	0.0002
2-3-Dimethylbutane	0.0105	N/R	0.0040	0.50	0.0003
Cyclopentane	0.0109	N/R	0.0030	0.41	0.0003
2-Methylpentane	0.0705	N/R	0.0290	3.35	0.0021
3-Methylpentane	0.0298	N/R	0.0120	1.42	0.0009
C6	0.0760	0.3966	0.0310	3.61	0.0023
Methylcyclopentane	0.0518	N/R	0.0180	2.33	0.0015
Benzene	0.0109	N/R	0.0030	0.41	0.0003
Cyclohexane	0.0264	N/R	0.0090	1.18	0.0008
2-Methylhexane	0.0074	N/R	0.0030	0.40	0.0003
3-Methylhexane	0.0097	N/R	0.0040	0.53	0.0003
2-2-4-Trimethylpentane	0.0015	N/R	0.0010	0.09	0.0001
i-heptanes	0.0053	N/R	0.0020	0.28	0.0002
Heptane	0.0182	N/R	0.0080	1.00	0.0006

Methylcyclohexane	0.0361	N/R	0.0150	1.88	0.0012
Toluene	0.0120	N/R	0.0040	0.54	0.0004
2-Methylheptane	0.0034	N/R	0.0020	0.21	0.0001
4-Methylheptane	0.0015	N/R	0.0010	0.09	0.0001
i-Octanes	0.0010	N/R	0.0000	0.06	0.0000
Octane	0.0028	N/R	0.0010	0.17	0.0001
Ethylbenzene	0.0002	N/R	0.0000	0.01	0.0000
m, p Xylene	0.0012	N/R	0.0000	0.06	0.0000
o Xylene (& 2,2,4 tmc7)	0.0003	N/R	0.0000	0.02	0.0000
i-C9	0.0001	N/R	0.0000	0.01	0.0000
C9	0.0001	N/R	0.0000	0.01	0.0000
i-C10	0.0002	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
<b>Total</b>	<b>100.00</b>	<b>100.583</b>	<b>18.473</b>	<b>1157.52</b>	<b>0.6794</b>

\* @ 14.730 PSIA DRY & UNCORRECTED FOR COMPRESSIBILITY

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

COMPRESSIBILITY FACTOR (1/Z):	1.003	CYLINDER #:	
BTU/CU.FT IDEAL:	1160.2	CYLINDER PRESSURE:	408 PSIG
BTU/CU.FT (DRY) CORRECTED FOR (1/Z):	1163.7	ANALYSIS DATE:	12/02/2021
BTU/CU.FT (WET) CORRECTED FOR (1/Z):	1143.5	ANALYSIS TIME:	11:22:21 AM
DRY BTU @ 15.025:	1187.0	ANALYSIS RUN BY:	ELAINE MORRISON
REAL SPECIFIC GRAVITY:	0.6812		

**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: 12/08/2021**

**GC Method: C12+BTEX Gas**



HARVEST MIDSTREAM  
WELL ANALYSIS COMPARISON

**Lease:** CHACO DEHY INLET

12/08/2021

**Stn. No.:**

33700-10200

**Mtr. No.:**

Smpl Date:	12/01/2021	04/23/2020	04/25/2019
Test Date:	12/02/2021	04/30/2020	04/26/2019
Run No:	HM2021103	HM200027	HM190023
Nitrogen:	0.3266	0.3112	0.3063
CO2:	1.6744	1.8658	1.9439
Methane:	84.8078	85.7150	85.6297
Ethane:	7.7525	6.8386	6.8540
Propane:	3.1332	2.9837	2.9476
I-Butane:	0.5704	0.5597	0.5441
N-Butane:	0.8366	0.8280	0.8089
2,2 dmc3:	0.0000	0.0038	0.0068
I-Pentane:	0.2895	0.3036	0.3102
N-Pentane:	0.2146	0.2279	0.2248
Neohexane:	0.0065	0.0072	0.0082
2-3-	0.0105	0.0102	0.0108
Cyclopentane:	0.0109	0.0106	0.0113
2-Methylpentane:	0.0705	0.0688	0.0728
3-Methylpentane:	0.0298	0.0279	0.0287
C6:	0.0760	0.0710	0.0832
Methylcyclopentane:	0.0518	0.0451	0.0545
Benzene:	0.0109	0.0087	0.0108
Cyclohexane:	0.0264	0.0237	0.0270
2-Methylhexane:	0.0074	0.0082	0.0086
3-Methylhexane:	0.0000	0.0000	0.0000
2-2-4-	0.0015	0.0014	0.0018
i-heptanes:	0.0053	0.0049	0.0058
Heptane:	0.0182	0.0168	0.0209
Methylcyclohexane:	0.0361	0.0322	0.0404
Toluene:	0.0120	0.0096	0.0144
2-Methylheptane:	0.0034	0.0031	0.0045
4-Methylheptane:	0.0015	0.0014	0.0020
i-Octanes:	0.0010	0.0007	0.0015
Octane:	0.0028	0.0024	0.0035
Ethylbenzene:	0.0002	0.0001	0.0002
m, p Xylene:	0.0012	0.0008	0.0020
o Xylene (& 2,2,4	0.0003	0.0001	0.0002
i-C9:	0.0001	0.0000	0.0003
C9:	0.0001	0.0001	0.0003
i-C10:	0.0002	0.0000	0.0000
C10:	0.0000	0.0000	0.0001
i-C11:	0.0000	0.0000	0.0000
C11:	0.0000	0.0000	0.0000
C12P:	0.0000	0.0000	0.0000
BTU:	1163.7	1152.0	1152.6
GPM:	18.4960	18.3840	18.3960
SPG:	0.6812	0.6766	0.6783

Location of Sample CHACO DEHY INLET SCRUBBER		Meter Code & CK Digit
Continuous Sampler Beginning Date		Ending Date or Date Pulled 12-1-21
Run Number	Operator Code	Line PSIG 408 <del>HWB</del>
Cylinder Number FCA 1457	Type Sample <input type="checkbox"/> Spot <input type="checkbox"/> Continuous	Flow Type 74°
Remarks EXTENDED GAS ANALYSIS		
Sample Taken By DAN MONCLOWA		Phone Number 505 427 0662

33700-10200 HM 2021103

**Line Leak Calc**

Orifice Diameter	0.188 inches
Pressure	100 psig
Time/date Discovered	8/24/2022 12:56
Time/date Isolated	8/25/2022 14:45
Total Hours Blown	25.82 hours
Area of Orifice	0.028 sq. inches

<b>Lost Gas From Line Leak</b>	<b>101.65 Mcf</b>
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Lost Gas=(Orifice Diameter)<sup>2</sup>\*Pressure\*Time Blown

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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 140523

DEFINITIONS

Operator: Harvest Four Corners, LLC 1111 Travis Street Houston, TX 77002	OGRID: 373888
	Action Number: 140523
	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 140523

**QUESTIONS**

Operator: Harvest Four Corners, LLC 1111 Travis Street Houston, TX 77002	OGRID: 373888
	Action Number: 140523
	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	Not answered.
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	Yes
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 withing 300 feet from an occupied permanent residence, school, hospital, institution or church in existence	No

<b>Equipment Involved</b>	
Primary Equipment Involved	Pipeline (Any)
Additional details for Equipment Involved. Please specify	Not answered.

<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	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
<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 140523

QUESTIONS (continued)

Operator: Harvest Four Corners, LLC 1111 Travis Street Houston, TX 77002	OGRID: 373888
	Action Number: 140523
	Action Type: [C-129] Venting and/or Flaring (C-129)

QUESTIONS

Date(s) and Time(s)	
Date vent or flare was discovered or commenced	08/25/2022
Time vent or flare was discovered or commenced	12:00 AM
Time vent or flare was terminated	02:45 PM
Cumulative hours during this event	15

Measured or Estimated Volume of Vented or Flared Natural Gas	
Natural Gas Vented (Mcf) Details	Cause: Corrosion   Pipeline (Any)   Natural Gas Vented   Released: 58 Mcf   Recovered: 0 Mcf   Lost: 58 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	Pipeline leak detected by aerial flyover being conducted to comply with Rule 28. Investigation into leak identified external corrosion as the cause. Harvest could not have reasonably anticipated that corrosion would have occurred at this spot at this time
Steps taken to limit the duration and magnitude of vent or flare	Immediately upon being notified of potential leak, Harvest dispatched personnel to investigate. After verifying that a leak was present, Harvest immediately isolated the line and stopped the release
Corrective actions taken to eliminate the cause and reoccurrence of vent or flare	Corroded section of pipe has been removed and replaced with new coated piping to prevent future external corrosion issues



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ACKNOWLEDGMENTS

Action 140523

**ACKNOWLEDGMENTS**

Operator: Harvest Four Corners, LLC 1111 Travis Street Houston, TX 77002	OGRID: 373888
	Action Number: 140523
	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 140523

CONDITIONS

Operator: Harvest Four Corners, LLC 1111 Travis Street Houston, TX 77002	OGRID: 373888
	Action Number: 140523
	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.	9/2/2022