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

Analysis No: HM200072
Cust No: 33700-10025

Well/Lease Information

Customer Name:	HARVEST MIDSTREAM	Source:	
Well Name:	CHACO COMP INLET	Well Flowing:	Y
County/State:		Pressure:	275.31 PSIG
Location:		Flow Temp:	73 DEG. F
Lease/PA/CA:		Ambient Temp:	79 DEG. F
Formation:		Flow Rate:	61,614 MCF/D
Cust. Stn. No.:	0247730	Sample Method:	Purge & Fill
		Sample Date:	08/11/2020
		Sample Time:	11.30 AM
		Sampled By:	ANTHONEY L.
Heat Trace:	N	Sampled by (CO):	HARVEST
Remarks:	INLET MANIFOLD Calculated Molecular Weight = 19.3272		

Analysis

Component:	Mole%:	Unormalized %:	**GPM:	*BTU:	*SP Gravity:
Nitrogen	0.3239	0.3218	0.0360	0.00	0.0031
CO2	1.6810	1.6701	0.2880	0.00	0.0255
Methane	86.1555	85.5972	14.6450	870.17	0.4772
Ethane	6.9526	6.9075	1.8640	123.04	0.0722
Propane	2.9218	2.9029	0.8070	73.52	0.0445
Iso-Butane	0.5115	0.5082	0.1680	16.63	0.0103
N-Butane	0.7629	0.7580	0.2410	24.89	0.0153
Neopentane 2,2 dmc3	0.0012	0.0012	0.0000	0.05	0.0000
I-Pentane	0.2639	0.2622	0.0970	10.56	0.0066
N-Pentane	0.1903	0.1891	0.0690	7.63	0.0047
Neohexane	0.0051	N/R	0.0020	0.24	0.0002
2-3-Dimethylbutane	0.0095	N/R	0.0040	0.45	0.0003
Cyclopentane	0.0099	N/R	0.0030	0.37	0.0002
2-Methylpentane	0.0640	N/R	0.0270	3.04	0.0019
3-Methylpentane	0.0180	N/R	0.0070	0.86	0.0005
C6	0.0496	0.2338	0.0200	2.36	0.0015
Methylcyclopentane	0.0252	N/R	0.0090	1.13	0.0007
Benzene	0.0039	N/R	0.0010	0.15	0.0001
Cyclohexane	0.0090	N/R	0.0030	0.40	0.0003
2-Methylhexane	0.0032	N/R	0.0010	0.17	0.0001
3-Methylhexane	0.0028	N/R	0.0010	0.15	0.0001
2-2-4-Trimethylpentane	0.0006	N/R	0.0000	0.04	0.0000
i-heptanes	0.0018	N/R	0.0010	0.10	0.0001
Heptane	0.0062	N/R	0.0030	0.34	0.0002

Methylcyclohexane	0.0103	N/R	0.0040	0.54	0.0003
Toluene	0.0045	N/R	0.0020	0.20	0.0001
2-Methylheptane	0.0020	N/R	0.0010	0.12	0.0001
4-Methylheptane	0.0010	N/R	0.0010	0.06	0.0000
i-Octanes	0.0013	N/R	0.0010	0.08	0.0001
Octane	0.0026	N/R	0.0010	0.16	0.0001
Ethylbenzene	0.0002	N/R	0.0000	0.01	0.0000
m, p Xylene	0.0027	N/R	0.0010	0.14	0.0001
o Xylene (& 2,2,4 tmc7)	0.0004	N/R	0.0000	0.02	0.0000
i-C9	0.0003	N/R	0.0000	0.02	0.0000
C9	0.0007	N/R	0.0000	0.05	0.0000
i-C10	0.0003	N/R	0.0000	0.02	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	0.0001	N/R	0.0000	0.01	0.0000
Total	100.00	99.352	18.308	1137.74	0.6666

* @ 14.730 PSIA DRY & UNCORRECTED FOR COMPRESSIBILITY
**@ 14.730 PSIA & 60 DEG. F.

COMPRESSIBLITY FACTOR (1/Z):	1.0029	CYLINDER #:	11
BTU/CU.FT IDEAL:	1140.4	CYLINDER PRESSURE:	276 PSIG
BTU/CU.FT (DRY) CORRECTED FOR (1/Z):	1143.7	ANALYSIS DATE:	08/12/2020
BTU/CU.FT (WET) CORRECTED FOR (1/Z):	1123.8	ANALYIS TIME:	01:12:26 AM
DRY BTU @ 15.025:	1166.6	ANALYSIS RUN BY:	PATRICIA KING
REAL SPECIFIC GRAVITY:	0.6683		

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: 08/13/2020**
GC Method: C12+BTEX Gas

HARVEST MIDSTREAM

WELL ANALYSIS COMPARISON

Lease: CHACO COMP INLET 08/13/2020

Stn. No.: 0247730 33700-10025

Mtr. No.:

Smpl Date:	08/11/2020	11/27/2018
Test Date:	08/12/2020	11/29/2018
Run No:	HM200072	HM180006
Nitrogen:	0.3239	0.3306
CO2:	1.6810	1.9364
Methane:	86.1555	85.6254
Ethane:	6.9526	7.0286
Propane:	2.9218	2.9810
I-Butane:	0.5115	0.5417
N-Butane:	0.7629	0.7937
2,2 dmc3:	0.0012	0.0021
I-Pentane:	0.2639	0.2733
N-Pentane:	0.1903	0.1943
Neohexane:	0.0051	0.0111
2-3-Cyclopentane:	0.0095	0.0077
2-Methylpentane:	0.0099	0.0080
3-Methylpentane:	0.0640	0.0518
C6:	0.0180	0.0246
Methylcyclopentane:	0.0496	0.0563
Benzene:	0.0252	0.0389
Cyclohexane:	0.0039	0.0090
2-Methylhexane:	0.0090	0.0193
3-Methylhexane:	0.0032	0.0057
2-2-4-i-heptanes:	0.0000	0.0000
Heptane:	0.0006	0.0010
Methylcyclohexane:	0.0018	0.0035
Toluene:	0.0062	0.0120
2-Methylheptane:	0.0103	0.0228
4-Methylheptane:	0.0045	0.0076
i-Octanes:	0.0020	0.0019
Octane:	0.0010	0.0009
Ethylbenzene:	0.0013	0.0005
m, p Xylene:	0.0026	0.0016
o Xylene (& 2,2,4	0.0002	0.0001
i-C9:	0.0027	0.0008
C9:	0.0004	0.0002
i-C10:	0.0003	0.0005
C10:	0.0007	0.0003
i-C11:	0.0003	0.0003
C11:	0.0002	0.0003
C12P:	0.0000	0.0000
	0.0000	0.0001
	0.0001	0.0000
BTU:	1143.7	1146.5
GPM:	18.3200	18.3630
SPG:	0.6683	0.6744

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

276#

GAS ANALYSIS SERVICE

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

Other _____ Date 8/11/2020

Sampled By:(Co.) Harvest Midstream Time 1130 ☑AM ☐PM

Sampled by:(Person) Anthoney Lewis Well Flowing: ☑ Yes ☐ No

Company: Harvest Midstream Heat Trace: ☐ Yes ☑ No

Well Name: Chaco Compressor Suction Extended Flow Pressure (PSIG): 275.31

Lease#: _____ Flow Temp (°F): 73°

County: San Juan Formation: _____ Ambient Temp (°F): 79°

State: NM Location: Chaco Compressor Station Flow Rate (MCF/D): 61,614

Source: ☐ Meter Run ☐ Tubing ☐ Casing ☐ Bradenhead ☒ Other Inlet Manifold

Sample Type: ☑ Spot ☐ Composite Sample Method: ☑ Purge & Fill ☐ Other _____

Meter Number: _____ Cylinder Number: 11

Contact: _____

Remarks: 33700-10025 HM 200072

Gas Loss Calculation Chaco Discharge Line

Hole: ¼ orfice
Duration: 2 hrs
Pressure: 600 lbs

Gas Loss: 123 mcf

Lost gas equation:

$Q=D^2*P*T$

Where:

Q=Volume of gas in Mcf
D=Equivalent diameter of orifice in inches
P=Absolute pressure in psi
T=Time in hours

In this particular case:

D=0.25”
P=600 psia
T=2 hours

Substituting these variables into the equation above gives us:

Q=123 Mcf

District I
1625 N. French Dr., Hobbs, NM 88240
Phone:(575) 393-6161 Fax:(575) 393-0720
District II
811 S. First St., Artesia, NM 88210
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
1220 S. St Francis Dr.
Santa Fe, NM 87505

QUESTIONS

Action 53518

QUESTIONS

Operator: Harvest Four Corners, LLC 1111 Travis Street Houston, TX 77002	OGRID: 373888
	Action Number: 53518
	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	**[fAPP2123053718] Harvest Four Corners - Kutz System**

Determination of Reporting Requirements	
Answer all questions that apply. The Reason(s) statements are calculated based on your answers and may provide addional guidance.	
Was or is this venting and/or flaring caused by an emergency or malfunction	No
Did or will this venting and/or flaring last eight hours or more cumulatively within any 24-hour period from a single event	No
Is this considered a submission for a venting and/or flaring 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 or will there be **at least 50 MCF** of natural gas vented and/or flared during this event	Yes
Did this venting and/or flaring 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 venting and/or flaring 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	Pipeline (Any)
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	86
Nitrogen (N2) percentage, if greater than one percent	0
Hydrogen Sulfide (H2S) PPM, rounded up	0
Carbon Dioxide (C02) percentage, if greater than one percent	2
Oxygen (02) 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 Sufide (H2S) PPM quality requirement	*Not answered.*
Carbon Dioxide (C02) percentage quality requirement	*Not answered.*
Oxygen (02) percentage quality requirement	*Not answered.*

Date(s) and Time(s)	
Date venting and/or flaring was discovered or commenced	09/22/2021
Time venting and/or flaring was discovered or commenced	04:00 PM
Time venting and/or flaring was terminated	06:00 PM
Cumulative hours during this event	2

Measured or Estimated Volume of Vented or Flared Natural Gas	
Natural Gas Vented (Mcf) Details	Cause: Human Error | Flow Line - Production | Natural Gas Vented | Released: 123 Mcf | Recovered: 0 Mcf | Lost: 123 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 or is this venting and/or flaring a result of downstream activity	*Not answered.*
Was notification of downstream activity received by you or your operator	*Not answered.*
Downstream OGRID that should have notified you or your operator	*Not answered.*
Date notified of downstream activity requiring this venting and/or flaring	*Not answered.*
Time notified of downstream activity requiring this venting and/or flaring	*Not answered.*

Steps and Actions to Prevent Waste	
For this event, the operator could not have reasonably anticipated the current event and it was beyond the operator's control.	False
Please explain reason for why this event was beyond your operator's control	Planned maintenance with incident that resulted in gas loss.
Steps taken to limit the duration and magnitude of venting and/or flaring	Up and down stream pipeline traced to shut in pipeline.
Corrective actions taken to eliminate the cause and reoccurrence of venting and/or flaring	One time incident with human error, will not occur again.

District I
1625 N. French Dr., Hobbs, NM 88240
Phone:(575) 393-6161 Fax:(575) 393-0720
District II
811 S. First St., Artesia, NM 88210
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
1220 S. St Francis Dr.
Santa Fe, NM 87505

CONDITIONS

Action 53518

CONDITIONS

Operator: Harvest Four Corners, LLC 1111 Travis Street Houston, TX 77002	OGRID: 373888
	Action Number: 53518
	Action Type: [C-129] Venting and/or Flaring (C-129)

CONDITIONS

Created By	Condition	Condition Date
lcupps	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.	10/4/2021