



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

Analysis No: HM2021106
Cust No: 33700-10125

Well/Lease Information

Customer Name: HARVEST MIDSTREAM
Well Name: OJITO COMPRESSOR STN
County/State: NM
Location:
Lease/PA/CA:
Formation:
Cust. Stn. No.:

Source:
Well Flowing:
Pressure: 109 PSIG
Flow Temp: 57 DEG. F
Ambient Temp: 34 DEG. F
Flow Rate: 27.9 MCF/D
Sample Method:
Sample Date: 12/20/2021
Sample Time: 12.00 PM
Sampled By: JOHNNY A.
Sampled by (CO): HARVEST MID.

Heat Trace:

Remarks: Calibrated Molecular Weight: 20.5844

Analysis

Component:	Mole%:	Unnormalized %:	**GPM:	*BTU:	*SP Gravity:
Nitrogen	0.3772	0.3783	0.0420	0.00	0.0036
CO2	0.7691	0.7714	0.1320	0.00	0.0117
Methane	80.9805	81.2215	13.7720	817.90	0.4486
Ethane	10.0548	10.0847	2.6970	177.94	0.1044
Propane	4.7195	4.7335	1.3040	118.75	0.0719
Iso-Butane	0.8099	0.8123	0.2660	26.34	0.0163
N-Butane	1.2445	1.2482	0.3940	40.60	0.0250
Neopentane 2,2 dmc3	0.0000	0.0000	0.0000	0.00	0.0000
I-Pentane	0.3588	0.3599	0.1320	14.36	0.0089
N-Pentane	0.2763	0.2771	0.1000	11.08	0.0069
Neohexane	0.0074	N/R	0.0030	0.35	0.0002
2-3-Dimethylbutane	0.0117	N/R	0.0050	0.56	0.0003
Cyclopentane	0.0122	N/R	0.0040	0.46	0.0003
2-Methylpentane	0.0791	N/R	0.0330	3.76	0.0024
3-Methylpentane	0.0338	N/R	0.0140	1.61	0.0010
C6	0.0839	0.4107	0.0350	3.99	0.0025
Methylcyclopentane	0.0545	N/R	0.0190	2.45	0.0016
Benzene	0.0102	N/R	0.0030	0.38	0.0003
Cyclohexane	0.0257	N/R	0.0090	1.15	0.0007
2-Methylhexane	0.0076	N/R	0.0040	0.41	0.0003
3-Methylhexane	0.0089	N/R	0.0040	0.49	0.0003
2-2-4-Trimethylpentane	0.0014	N/R	0.0010	0.09	0.0001
i-heptanes	0.0055	N/R	0.0020	0.29	0.0002
Heptane	0.0171	N/R	0.0080	0.94	0.0006

Methylcyclohexane	0.0313	N/R	0.0130	1.63	0.0011
Toluene	0.0108	N/R	0.0040	0.48	0.0003
2-Methylheptane	0.0027	N/R	0.0010	0.17	0.0001
4-Methylheptane	0.0013	N/R	0.0010	0.08	0.0001
i-Octanes	0.0006	N/R	0.0000	0.04	0.0000
Octane	0.0020	N/R	0.0010	0.12	0.0001
Ethylbenzene	0.0001	N/R	0.0000	0.01	0.0000
m, p Xylene	0.0009	N/R	0.0000	0.05	0.0000
o Xylene (& 2,2,4 tmc7)	0.0002	N/R	0.0000	0.01	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	0.0001	N/R	0.0000	0.01	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	100.298	19.003	1226.50	0.7096

* @ 14.730 PSIA DRY & UNCORRECTED FOR COMPRESSIBILITY

**@ 14.730 PSIA & 60 DEG. F.

COMPRESSIBILITY FACTOR (1/Z):	1.0034	CYLINDER #:	12
BTU/CU.FT IDEAL:	1229.3	CYLINDER PRESSURE:	123 PSIG
BTU/CU.FT (DRY) CORRECTED FOR (1/Z):	1233.5	ANALYSIS DATE:	12/28/2021
BTU/CU.FT (WET) CORRECTED FOR (1/Z):	1212.0	ANALYSIS TIME:	11:34:52 AM
DRY BTU @ 15.025:	1258.2	ANALYSIS RUN BY:	ELAINE MORRISON
REAL SPECIFIC GRAVITY:	0.7118		

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: 12/29/2021

GC Method: C12+BTEX Gas



HARVEST MIDSTREAM
WELL ANALYSIS COMPARISON

Lease: OJITO COMPRESSOR STN

12/29/2021

Stn. No.:

33700-10125

Mtr. No.:

Smpl Date:	12/20/2021	08/24/2020	01/30/2019
Test Date:	12/28/2021	08/25/2020	02/01/2019
Run No:	HM2021106	HM200076	HM190005
Nitrogen:	0.3772	0.4522	0.4059
CO2:	0.7691	0.7529	0.7991
Methane:	80.9805	79.9579	79.7710
Ethane:	10.0548	10.5697	10.5685
Propane:	4.7195	4.8564	4.9525
I-Butane:	0.8099	0.8461	0.8509
N-Butane:	1.2445	1.3608	1.3804
2,2 dmc3:	0.0000	0.0036	0.0066
I-Pentane:	0.3588	0.3898	0.4532
N-Pentane:	0.2763	0.2697	0.3398
Neohexane:	0.0074	0.0088	0.0152
2-3-	0.0117	0.0146	0.0129
Cyclopentane:	0.0122	0.0152	0.0134
2-Methylpentane:	0.0791	0.0983	0.0869
3-Methylpentane:	0.0338	0.0380	0.0363
C6:	0.0839	0.0087	0.0966
Methylcyclopentane:	0.0545	0.0563	0.0703
Benzene:	0.0102	0.0097	0.0125
Cyclohexane:	0.0257	0.0293	0.0320
2-Methylhexane:	0.0076	0.0120	0.0095
3-Methylhexane:	0.0000	0.0000	0.0000
2-2-4-	0.0014	0.0041	0.0015
i-heptanes:	0.0055	0.0086	0.0057
Heptane:	0.0171	0.0429	0.0180
Methylcyclohexane:	0.0313	0.0780	0.0324
Toluene:	0.0108	0.0412	0.0101
2-Methylheptane:	0.0027	0.0141	0.0022
4-Methylheptane:	0.0013	0.0072	0.0012
i-Octanes:	0.0006	0.0060	0.0006
Octane:	0.0020	0.0187	0.0017
Ethylbenzene:	0.0001	0.0011	0.0002
m, p Xylene:	0.0009	0.0075	0.0010
o Xylene (& 2,2,4	0.0002	0.0010	0.0003
i-C9:	0.0001	0.0021	0.0004
C9:	0.0001	0.0024	0.0003
i-C10:	0.0002	0.0009	0.0004
C10:	0.0001	0.0005	0.0002
i-C11:	0.0000	0.0000	0.0000
C11:	0.0000	0.0005	0.0001
C12P:	0.0000	0.0001	0.0001
BTU:	1233.5	1249.5	1251.8
GPM:	19.0220	19.1470	19.1730
SPG:	0.7118	0.7228	0.7243

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123#

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

Other _____

Date 12/21/21

☐ AM☒ PM

Sampled By: (Co.) Harvest Midstream

Time noon

Sampled by: (Person) Johnny Arenas

Well Flowing: ☐ Yes ☐ NoHeat Trace: ☐ Yes ☐ No

Company: _____

Well Name: _____

Flow Pressure (PSIG): 109

Lease#: _____

Ojito CDP

Flow Temp (°F): 57

County: _____

Formation: _____

Ambient Temp (°F): 34

State: NM

Location: Ojito CDP

Flow Rate (MCF/D): 27.9

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

Meter Number: _____

Cylinder Number: 12

Contact: Johnny Arenas 505-787-0540

Remarks: 33700-10125 HM 2021106

Line Leak Calc

Orifice Diameter	0.124 inches
Pressure	46 psig
Time/date Discovered	9/19/2022 10:39
Time/date Isolated	9/28/2022 16:30
Total Hours Blown	221.85 hours
Area of Orifice	0.012 sq. inches

Lost Gas From Line Leak 157.539 Mcf

Blowdown Calc

Length	2,494 feet
Actual Pipe OD	4.500 inches
Wall Thickness	0.188 inches
Pressure	46 psig

Lost Gas From Blowdown 0.726 Mcf

Total Gas Loss	158.26 Mcf
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Lost Gas=(Orifice Diameter)^2*Pressure*Time Blown

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



9219869



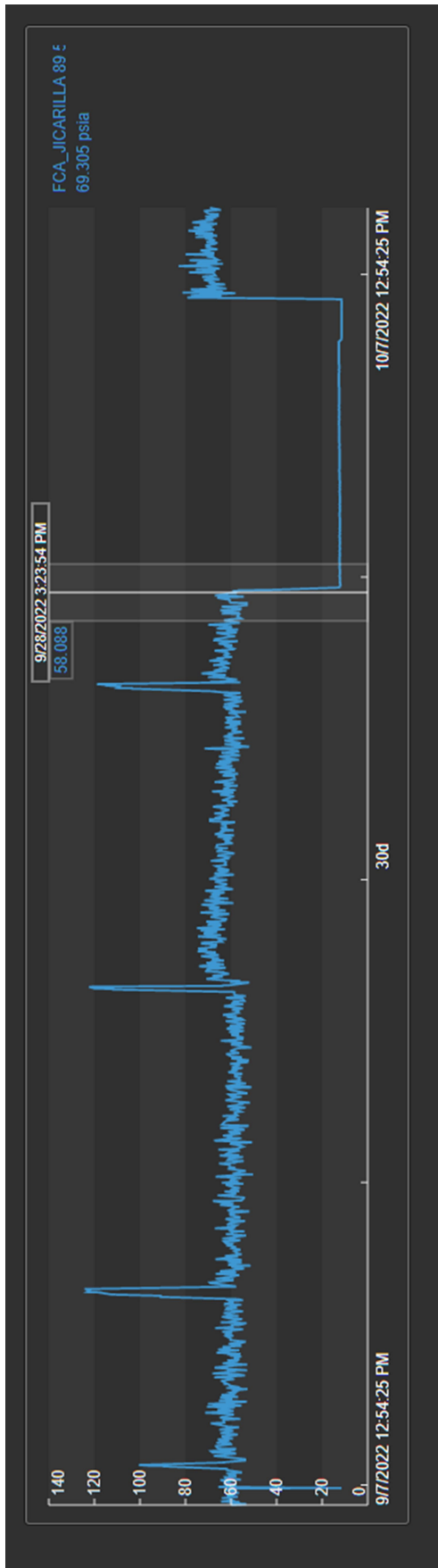
19 Sep 2022, 10:46 AM MDT ⁴
155 MCF/day



19 Sep 2022, 10:39 AM 103 MCF/day

	EMISSION SOURCE: 12549
	LOCATION: 36.56542 N, 107.10851 W
	DETECTION COUNT: 2
	DETECTION TIME: 19 Sep 2022, 10:39 AM MDT – 19 Sep 2022, 10:46 AM MDT
	EMISSION RATE: 155 MCF/day
	REGION: SJS
	LINE DIAMETER: 4.5
	LINE ID: 9279388
	SYSTEM: IGNACIO
	SUBSYSTEM: OJITO GATHERING

4. Red dot indicates the greatest methane plume density.



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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

DEFINITIONS

Action 150294

DEFINITIONS

Operator: Harvest Four Corners, LLC 1111 Travis Street Houston, TX 77002	OGRID: 373888
	Action Number: 150294
	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: • 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 150294

QUESTIONS

Operator: Harvest Four Corners, LLC 1111 Travis Street Houston, TX 77002	OGRID: 373888
	Action Number: 150294
	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	Yes
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	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	81
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

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 150294

QUESTIONS (continued)

Operator: Harvest Four Corners, LLC 1111 Travis Street Houston, TX 77002	OGRID: 373888
	Action Number: 150294
	Action Type: [C-129] Venting and/or Flaring (C-129)

QUESTIONS

Date(s) and Time(s)	
Date vent or flare was discovered or commenced	09/28/2022
Time vent or flare was discovered or commenced	10:39 AM
Time vent or flare was terminated	04:14 PM
Cumulative hours during this event	222

Measured or Estimated Volume of Vented or Flared Natural Gas	
Natural Gas Vented (Mcf) Details	Cause: Normal Operations Pipeline (Any) Natural Gas Vented Released: 158 Mcf Recovered: 0 Mcf Lost: 158 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	Pipeline leak discovered during flyover, associated with internal corrosion.
Steps taken to limit the duration and magnitude of vent or flare	Upon discover from the flyover, operations verified with leak and locked and tagged in the associated wells and pipeline.
Corrective actions taken to eliminate the cause and reoccurrence of vent or flare	Upon discovery the pipeline leak was verified and immediately shut in.

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ACKNOWLEDGMENTS

Action 150294

ACKNOWLEDGMENTS

Operator: Harvest Four Corners, LLC 1111 Travis Street Houston, TX 77002	OGRID: 373888
	Action Number: 150294
	Action Type: [C-129] Venting and/or Flaring (C-129)

ACKNOWLEDGMENTS

☒	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.
☒	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.
☒	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.
☒	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.
☒	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 150294

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Operator: Harvest Four Corners, LLC 1111 Travis Street Houston, TX 77002	OGRID: 373888
	Action Number: 150294
	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.	10/12/2022