



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

Analysis No: HM20230021
Cust No: 33700-10255

Well/Lease Information

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

Source: METER RUN
Well Flowing: Y
Pressure: 200 PSIG
Flow Temp: 70 DEG. F
Ambient Temp: 34 DEG. F
Flow Rate: MCF/D
Sample Method: Purge & Fill
Sample Date: 04/04/2023
Sample Time: 2.00 PM
Sampled By: DONNIE EDWARDS
Sampled by (CO): HARVEST

Heat Trace: N
Remarks: Calculated Molecular Weight: 19.3725

Analysis

Component:	Mole%:	Unnormalized %:	**GPM:	*BTU:	*SP Gravity:
Nitrogen	0.4547	0.4562	0.0500	0.00	0.0044
CO2	1.4809	1.4858	0.2530	0.00	0.0225
Methane	86.6826	86.9674	14.7340	875.49	0.4801
Ethane	6.5163	6.5377	1.7470	115.32	0.0677
Propane	2.6687	2.6775	0.7370	67.15	0.0406
Iso-Butane	0.4848	0.4864	0.1590	15.77	0.0097
N-Butane	0.7031	0.7054	0.2220	22.94	0.0141
Neopentane 2,2 dmc3	0.0000	0.0000	0.0000	0.00	0.0000
I-Pentane	0.2681	0.2690	0.0980	10.73	0.0067
N-Pentane	0.1987	0.1994	0.0720	7.97	0.0050
Neohexane	0.0116	N/R	0.0050	0.55	0.0003
2-3-Dimethylbutane	0.0109	N/R	0.0040	0.52	0.0003
Cyclopentane	0.0114	N/R	0.0030	0.43	0.0003
2-Methylpentane	0.0735	N/R	0.0310	3.49	0.0022
3-Methylpentane	0.0281	N/R	0.0110	1.33	0.0008
C6	0.0952	0.5437	0.0390	4.53	0.0028
Methylcyclopentane	0.0700	N/R	0.0250	3.15	0.0020
Benzene	0.0124	N/R	0.0030	0.46	0.0003
Cyclohexane	0.0326	N/R	0.0110	1.46	0.0009
2-Methylhexane	0.0113	N/R	0.0050	0.62	0.0004
3-Methylhexane	0.0135	N/R	0.0060	0.74	0.0005
2-2-4-Trimethylpentane	0.0036	N/R	0.0020	0.22	0.0001
i-heptanes	0.0082	N/R	0.0040	0.44	0.0003
Heptane	0.0331	N/R	0.0150	1.82	0.0011

Methylcyclohexane	0.0648	N/R	0.0260	3.38	0.0022
Toluene	0.0274	N/R	0.0090	1.23	0.0009
2-Methylheptane	0.0085	N/R	0.0040	0.53	0.0003
4-Methylheptane	0.0042	N/R	0.0020	0.26	0.0002
i-Octanes	0.0033	N/R	0.0020	0.20	0.0001
Octane	0.0087	N/R	0.0040	0.54	0.0003
Ethylbenzene	0.0058	N/R	0.0020	0.30	0.0002
m, p Xylene	0.0003	N/R	0.0000	0.02	0.0000
o Xylene (& 2,2,4 tmc7)	0.0006	N/R	0.0000	0.03	0.0000
i-C9	0.0009	N/R	0.0000	0.06	0.0000
C9	0.0014	N/R	0.0010	0.10	0.0001
i-C10	0.0001	N/R	0.0000	0.01	0.0000
C10	0.0003	N/R	0.0000	0.02	0.0000
i-C11	0.0000	N/R	0.0000	0.00	0.0000
C11	0.0001	N/R	0.0000	0.01	0.0000
C12P	0.0001	N/R	0.0000	0.01	0.0000
Total	100.00	100.328	18.286	1141.80	0.6677

* @ 14.730 PSIA DRY & UNCORRECTED FOR COMPRESSIBILITY

**@ 14.730 PSIA & 60 DEG. F.

COMPRESSIBILITY FACTOR (1/Z):	1.0029	CYLINDER #:	1575
BTU/CU.FT IDEAL:	1144.4	CYLINDER PRESSURE:	213 PSIG
BTU/CU.FT (DRY) CORRECTED FOR (1/Z):	1147.8	ANALYSIS DATE:	04/05/2023
BTU/CU.FT (WET) CORRECTED FOR (1/Z):	1127.8	ANALYSIS TIME:	01:21:13 AM
DRY BTU @ 15.025:	1170.8	ANALYSIS RUN BY:	ELAINE MORRISON
REAL SPECIFIC GRAVITY:	0.6694		

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: 04/06/2023****GC Method: C12+BTEX Gas**



HARVEST MIDSTREAM
WELL ANALYSIS COMPARISON

Lease: REID CDP

METER RUN

04/06/2023

Stn. No.:

33700-10255

Mtr. No.:

Smpl Date:	04/04/2023	04/13/2022	04/26/2021	04/20/2020	06/06/2019
Test Date:	04/05/2023	04/21/2022	05/05/2021	04/28/2020	06/11/2019
Run No:	HM20230021	HM20220033	HM2021034	HM200017	HM190035
Nitrogen:	0.4547	0.4919	0.3848	0.3537	0.5330
CO2:	1.4809	1.5469	1.3196	1.8165	1.5235
Methane:	86.6826	84.6708	82.5427	81.0272	82.2597
Ethane:	6.5163	7.6926	9.0396	9.6832	8.8408
Propane:	2.6687	3.1645	3.6607	4.0203	3.8772
I-Butane:	0.4848	0.5495	0.6552	0.7194	0.6733
N-Butane:	0.7031	0.8448	1.0097	1.0963	1.0120
2,2 dmc3:	0.0000	0.0000	0.0000	0.0024	0.0044
I-Pentane:	0.2681	0.3104	0.3728	0.3931	0.3721
N-Pentane:	0.1987	0.2321	0.2741	0.2910	0.2722
Neohexane:	0.0116	0.0113	0.0117	0.0046	0.0119
2-3-	0.0109	0.0019	0.0141	0.0022	0.0137
Cyclopentane:	0.0114	0.0020	0.0147	0.0023	0.0142
2-Methylpentane:	0.0735	0.0130	0.0951	0.0151	0.0920
3-Methylpentane:	0.0281	0.0351	0.0391	0.0477	0.0414
C6:	0.0952	0.1162	0.1134	0.1216	0.1087
Methylcyclopentane:	0.0700	0.0823	0.0882	0.0881	0.0798
Benzene:	0.0124	0.0182	0.0197	0.0203	0.0185
Cyclohexane:	0.0326	0.0402	0.0503	0.0507	0.0445
2-Methylhexane:	0.0113	0.0103	0.0170	0.0172	0.0141
3-Methylhexane:	0.0000	0.0000	0.0000	0.0000	0.0000
2-2-4-	0.0036	0.0029	0.0055	0.0047	0.0034
i-heptanes:	0.0082	0.0079	0.0114	0.0111	0.0093
Heptane:	0.0331	0.0316	0.0474	0.0442	0.0362
Methylcyclohexane:	0.0648	0.0629	0.0957	0.0810	0.0695
Toluene:	0.0274	0.0267	0.0413	0.0299	0.0276
2-Methylheptane:	0.0085	0.0065	0.0149	0.0116	0.0093
4-Methylheptane:	0.0042	0.0031	0.0072	0.0059	0.0044
i-Octanes:	0.0033	0.0017	0.0058	0.0040	0.0033
Octane:	0.0087	0.0056	0.0154	0.0109	0.0082
Ethylbenzene:	0.0058	0.0003	0.0008	0.0004	0.0004
m, p Xylene:	0.0003	0.0025	0.0095	0.0042	0.0044
o Xylene (& 2,2,4	0.0006	0.0003	0.0009	0.0004	0.0004
i-C9:	0.0009	0.0001	0.0010	0.0005	0.0008
C9:	0.0014	0.0002	0.0016	0.0008	0.0008
i-C10:	0.0001	0.0001	0.0004	0.0002	0.0003
C10:	0.0003	0.0001	0.0002	0.0001	0.0005
i-C11:	0.0000	0.0000	0.0000	0.0000	0.0000
C11:	0.0001	0.0001	0.0001	0.0000	0.0001
C12P:	0.0001	0.0001	0.0000	0.0000	0.0000
BTU:	1147.8	1168.4	1209.0	1213.8	1203.1
GPM:	18.3140	18.5180	18.8430	18.9390	18.8100
SPG:	0.6694	0.6841	0.7055	0.7161	0.7064

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

Other _____

Date 4/4/23

Sampled By: (Co.) Harvest Midstream

Time 1400

☐ AM
☒ PM

Sampled by: (Person) Don Edwards

Well Flowing: ☒ Yes ☐ No

Company: _____

Heat Trace: ☐ Yes ☒ No

Well Name: _____

Flow Pressure (PSIG): 200

API #: _____

Flow Temp (°F): 70

Lease#: Reid CDP

Ambient Temp (°F): 34

County: SS

State: NM

Formation: _____

Flow Rate (MCF/D): _____

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

Meter Number: _____

Cylinder Number: 1575

Contact: _____

Remarks: 33200-10255

HM 2023 0021

Line Leak Calc

Orifice Diameter	0.156 inches
Pressure	50 psig
Time/date Discovered	7/5/2023 10:34
Time/date Isolated	7/12/2023 13:21
Total Hours Blown	170.78 hours
Area of Orifice	0.019 sq. inches

Lost Gas From Line Leak 207.809 Mcf

Blowdown Calc

Length	3,126 feet
Actual Pipe OD	4.500 inches
Wall Thickness	0.156 inches
Pressure	50 psig

Lost Gas From Blowdown 1.020 Mcf

Total Gas Loss 208.83 Mcf

Lost Gas=(Orifice Diameter)^2*Pressure*Time Blown

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

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District II
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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 243148

DEFINITIONS

Operator: Harvest Four Corners, LLC 1755 Arroyo Dr Bloomfield, NM 87413	OGRID: 373888
	Action Number: 243148
	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">• 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 243148

QUESTIONS

Operator: Harvest Four Corners, LLC 1755 Arroyo Dr Bloomfield, NM 87413	OGRID: 373888
	Action Number: 243148
	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	Unavailable.
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	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.
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	87
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 243148

QUESTIONS (continued)

Operator: Harvest Four Corners, LLC 1755 Arroyo Dr Bloomfield, NM 87413	OGRID: 373888
	Action Number: 243148
	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	12:21 PM
Time vent or flare was terminated	01:21 PM
Cumulative hours during this event	171

Measured or Estimated Volume of Vented or Flared Natural Gas	
Natural Gas Vented (Mcf) Details	Cause: Corrosion Pipeline (Any) Natural Gas Vented Released: 208 Mcf Recovered: 0 Mcf Lost: 208 Mcf.
Natural Gas Flared (Mcf) Details	Not answered.
Other Released Details	Not answered.
Additional details for Measured or Estimated Volume(s). Please specify	Leak identified in flyover week report. Notification made to Harvest 3rd party flyover contractor on 7/12/2023 at 12:21 pm, leak terminated, and line blocked in on 7/12/2023 Leak back calculated to 7/6/2023 10:34 AM. gas loss total 207.80 mcf
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.	False
Please explain reason for why this event was beyond this operator's control	Pipeline leak the result of corrosion, discovered during flyover by 3rd part contractor.
Steps taken to limit the duration and magnitude of vent or flare	Upon notification of leak, operations were routed to the area. Blocked in the pipeline and pressure tested to verify leak. The line remained isolated, and gas shut in. Until repairs could be made.
Corrective actions taken to eliminate the cause and reoccurrence of vent or flare	Pipeline shut in and repairs to line made.

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ACKNOWLEDGMENTS

Action 243148

ACKNOWLEDGMENTS

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	Action Number: 243148
	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 complete 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 243148

CONDITIONS

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	Action Number: 243148
	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