



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

Analysis No: HM20220016
Cust No: 33700-10600

Well/Lease Information

Customer Name: HARVEST MIDSTREAM
Well Name: Ignacio Gas Plant; Trunk S Inlet
County/State: La Plata CO
Location:
Lease/PA/CA:
Formation:
Cust. Stn. No.:

Heat Trace: N
Remarks: Calculated Molecular Weight: 19.7888

Source: Trunk S Inlet
Well Flowing: Y
Pressure: 280 PSIG
Flow Temp: 75 DEG. F
Ambient Temp: 41 DEG. F
Flow Rate: 33 MCF/D
Sample Method: Purge & Fill
Sample Date: 04/05/2022
Sample Time: 9.00 AM
Sampled By: Celia L
Sampled by (CO): ABC

Analysis

Component:	Mole%:	Unnormalized %:	**GPM:	*BTU:	*SP Gravity:
Nitrogen	0.5367	0.5362	0.0590	0.00	0.0052
CO2	2.6360	2.6334	0.4510	0.00	0.0401
Methane	84.5992	84.5149	14.3820	854.45	0.4686
Ethane	6.8095	6.8027	1.8260	120.51	0.0707
Propane	3.2505	3.2473	0.8980	81.79	0.0495
Iso-Butane	0.5407	0.5402	0.1770	17.58	0.0109
N-Butane	0.8835	0.8826	0.2790	28.82	0.0177
Neopentane 2,2 dmc3	0.0000	0.0000	0.0000	0.00	0.0000
I-Pentane	0.2807	0.2804	0.1030	11.23	0.0070
N-Pentane	0.2095	0.2093	0.0760	8.40	0.0052
Neohexane	0.0060	N/R	0.0030	0.28	0.0002
2-3-Dimethylbutane	0.0067	N/R	0.0030	0.32	0.0002
Cyclopentane	0.0070	N/R	0.0020	0.26	0.0002
2-Methylpentane	0.0451	N/R	0.0190	2.14	0.0013
3-Methylpentane	0.0160	N/R	0.0070	0.76	0.0005
C6	0.0501	0.2533	0.0210	2.38	0.0015
Methylcyclopentane	0.0335	N/R	0.0120	1.51	0.0010
Benzene	0.0055	N/R	0.0020	0.21	0.0001
Cyclohexane	0.0139	N/R	0.0050	0.62	0.0004
2-Methylhexane	0.0045	N/R	0.0020	0.25	0.0002
3-Methylhexane	0.0054	N/R	0.0020	0.29	0.0002
2-2-4-Trimethylpentane	0.0011	N/R	0.0010	0.07	0.0000
i-heptanes	0.0034	N/R	0.0010	0.18	0.0001
Heptane	0.0127	N/R	0.0060	0.70	0.0004

Methylcyclohexane	0.0248	N/R	0.0100	1.29	0.0008
Toluene	0.0088	N/R	0.0030	0.39	0.0003
2-Methylheptane	0.0025	N/R	0.0010	0.15	0.0001
4-Methylheptane	0.0012	N/R	0.0010	0.07	0.0000
i-Octanes	0.0011	N/R	0.0010	0.07	0.0000
Octane	0.0024	N/R	0.0010	0.15	0.0001
Ethylbenzene	0.0001	N/R	0.0000	0.01	0.0000
m, p Xylene	0.0014	N/R	0.0010	0.07	0.0001
o Xylene (& 2,2,4 tmc7)	0.0001	N/R	0.0000	0.01	0.0000
i-C9	0.0001	N/R	0.0000	0.01	0.0000
C9	0.0002	N/R	0.0000	0.01	0.0000
i-C10	0.0000	N/R	0.0000	0.00	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
Total	100.00	99.900	18.355	1134.99	0.6826

* @ 14.730 PSIA DRY & UNCORRECTED FOR COMPRESSIBILITY

**@ 14.730 PSIA & 60 DEG. F.

COMPRESSIBILITY FACTOR (1/Z):	1.003	CYLINDER #:	046
BTU/CU.FT IDEAL:	1137.6	CYLINDER PRESSURE:	277 PSIG
BTU/CU.FT (DRY) CORRECTED FOR (1/Z):	1141.0	ANALYSIS DATE:	04/11/2022
BTU/CU.FT (WET) CORRECTED FOR (1/Z):	1121.1	ANALYSIS TIME:	03:52:41 AM
DRY BTU @ 15.025:	1163.9	ANALYSIS RUN BY:	ELAINE MORRISON
REAL SPECIFIC GRAVITY:	0.6844		

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: 04/12/2022****GC Method: C12+BTEX Gas**



HARVEST MIDSTREAM
WELL ANALYSIS COMPARISON

Lease: Ignacio Gas Plant; Trunk S Inlet

Trunk S Inlet

04/12/2022

Stn. No.:

33700-10600

Mtr. No.:

Smpl Date:	04/05/2022	07/26/2021
Test Date:	04/11/2022	07/29/2021
Run No:	HM20220016	HM2021064
Nitrogen:	0.5367	0.6312
CO2:	2.6360	3.0061
Methane:	84.5992	84.6949
Ethane:	6.8095	6.0277
Propane:	3.2505	2.9006
I-Butane:	0.5407	0.5030
N-Butane:	0.8835	0.8344
2,2 dmc3:	0.0000	0.0000
I-Pentane:	0.2807	0.3012
N-Pentane:	0.2095	0.2393
Neohexane:	0.0060	0.0156
2-3-	0.0067	0.0226
Cyclopentane:	0.0070	0.0235
2-Methylpentane:	0.0451	0.1519
3-Methylpentane:	0.0160	0.0628
C6:	0.0501	0.1507
Methylcyclopentane:	0.0335	0.1018
Benzene:	0.0055	0.0200
Cyclohexane:	0.0139	0.0498
2-Methylhexane:	0.0045	0.0171
3-Methylhexane:	0.0000	0.0000
2-2-4-	0.0011	0.0045
i-heptanes:	0.0034	0.0122
Heptane:	0.0127	0.0428
Methylcyclohexane:	0.0248	0.0852
Toluene:	0.0088	0.0327
2-Methylheptane:	0.0025	0.0126
4-Methylheptane:	0.0012	0.0061
i-Octanes:	0.0011	0.0050
Octane:	0.0024	0.0130
Ethylbenzene:	0.0001	0.0006
m, p Xylene:	0.0014	0.0086
o Xylene (& 2,2,4	0.0001	0.0009
i-C9:	0.0001	0.0007
C9:	0.0002	0.0014
i-C10:	0.0000	0.0004
C10:	0.0000	0.0003
i-C11:	0.0000	0.0000
C11:	0.0000	0.0000
C12P:	0.0000	0.0000
BTU:	1141.0	1148.3
GPM:	18.3640	18.4120
SPG:	0.6844	0.6965

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

Other _____

Date 4-5-22

Sampled By: (Co.) ABE

Time 9:00

☒ AM
☐ PM

Sampled by: (Person) ECC

Well Flowing: ☒ Yes ☐ No

Company: Harvest Midstream

Heat Trace: ☐ Yes ☒ No

Well Name: Ignacio Plant Trunk S Inlet

Flow Pressure (PSIG): 280

API #:

Flow Temp (°F): 75

Lease#:

Ambient Temp (°F): 41

County: LP

State: CO

Formation:

Flow Rate (MCF/D): 73 m. 11

Source: ☐ Meter Run ☐ Tubing ☐ Casing ☐ Bradenhead ☒ Other Trunk S InletSample Type: ☒ Spot ☐ Composite Sample Method: ☒ Purge & Fill ☐ Other

Meter Number:

Cylinder Number: 046

Contact:

Remarks: 33700-10600 HM20220016

Line Leak Calc

Orifice Diameter	0.125 inches
Pressure	135 psig
Time/date Discovered	9/2/2022 10:33
Time/date Isolated	9/14/2022 13:45
Total Hours Blown	291.20 hours
Area of Orifice	0.01227 sq. inches

Lost Gas From Line Leak	668.85 Mcf
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Total Gas Loss	668.85 Mcf
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Lost Gas=(Orifice Diameter)^2*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 146109

DEFINITIONS

Operator: Harvest Four Corners, LLC 1111 Travis Street Houston, TX 77002	OGRID: 373888
	Action Number: 146109
	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">• 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 146109

QUESTIONS

Operator: Harvest Four Corners, LLC 1111 Travis Street Houston, TX 77002	OGRID: 373888
	Action Number: 146109
	Action Type: [C-129] Amend Venting and/or Flaring (C-129A)

QUESTIONS

Prerequisites <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 Operator	[373888] Harvest Four Corners, LLC
Incident Type	Flare
Incident Status	Closure Not Approved
Incident Well	Not answered.
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.	

Determination of Reporting Requirements <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	No
Is this considered a submission for a vent or flare event	Yes, major 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 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 <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	1
Hydrogen Sulfide (H2S) PPM, rounded up	0
Carbon Dioxide (C02) percentage, if greater than one percent	3
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 Sufide (H2S) PPM quality requirement	Not answered.
Carbon Dioxide (C02) percentage quality requirement	Not answered.
Oxygen (O2) percentage quality requirement	Not answered.

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QUESTIONS, Page 2

Action 146109

QUESTIONS (continued)

Operator: Harvest Four Corners, LLC 1111 Travis Street Houston, TX 77002	OGRID: 373888
	Action Number: 146109
	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	09/14/2022
Time vent or flare was discovered or commenced	01:05 PM
Time vent or flare was terminated	01:45 PM
Cumulative hours during this event	1

Measured or Estimated Volume of Vented or Flared Natural Gas	
Natural Gas Vented (Mcf) Details	Cause: Corrosion Pipeline (Any) Natural Gas Vented Released: 669 Mcf Recovered: 0 Mcf Lost: 669 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	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	This pipeline leak was detected via aerial leak detection survey. There were no obvious visible signs of a gas leak at the surface. After investigation, it was determined that the leak was caused by corrosion. There is no way for Harvest to know when and where a leak caused by corrosion will occur. Harvest performs regular pipeline maintenance activities to reduce corrosion in its pipelines.
Steps taken to limit the duration and magnitude of vent or flare	Harvest was notified of this leak by the third party conducting the aerial leak detection survey. The leak was detected on 9/2, but Harvest was not notified until 9/14. After notification, Harvest immediately dispatched a group to investigate the potential leak. Once the leak was confirmed, Harvest immediately isolated the pipeline and stopped the release.
Corrective actions taken to eliminate the cause and reoccurrence of vent or flare	Harvest has removed the corroded section of pipeline. This section was replaced with new pipe. All welds were taped and a rock shield was applied.

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ACKNOWLEDGMENTS

Action 146109

ACKNOWLEDGMENTS

Operator: Harvest Four Corners, LLC 1111 Travis Street Houston, TX 77002	OGRID: 373888
	Action Number: 146109
	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 146109

CONDITIONS

Operator: Harvest Four Corners, LLC 1111 Travis Street Houston, TX 77002	OGRID: 373888
	Action Number: 146109
	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.	9/26/2022