



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

Analysis No: HM2021087
Cust No: 33700-10355

Well/Lease Information

Customer Name: HARVEST MIDSTREAM
Well Name: 32-8 #2 CDP
County/State:
Location:
Lease/PA/CA:
Formation:
Cust. Stn. No.:

Source: Dehy Inlet
Well Flowing:
Pressure: 918 PSIG
Flow Temp: 91 DEG. F
Ambient Temp: 72 DEG. F
Flow Rate: 29.6 MCF/D
Sample Method: Purge & Fill
Sample Date: 10/06/2021
Sample Time: 1.30 PM
Sampled By: Daniel Lovato
Sampled by (CO): Harvest Mid

Heat Trace:

Remarks: Calculated Molecular Weight = 20.9601

Analysis

Component:	Mole%:	Unnormalized %:	**GPM:	*BTU:	*SP Gravity:
Nitrogen	0.0479	0.0479	0.0050	0.00	0.0005
CO2	16.5388	16.5408	2.8290	0.00	0.2513
Methane	81.8973	81.9072	13.9170	827.16	0.4536
Ethane	1.1430	1.1431	0.3060	20.23	0.0119
Propane	0.2865	0.2865	0.0790	7.21	0.0044
Iso-Butane	0.0309	0.0309	0.0100	1.00	0.0006
N-Butane	0.0286	0.0286	0.0090	0.93	0.0006
Neopentane 2,2 dmc3	0.0000	0.0000	0.0000	0.00	0.0000
I-Pentane	0.0043	0.0043	0.0020	0.17	0.0001
N-Pentane	0.0026	0.0026	0.0010	0.10	0.0001
Neohexane	0.0002	N/R	0.0000	0.01	0.0000
2-3-Dimethylbutane	0.0006	N/R	0.0000	0.03	0.0000
Cyclopentane	0.0006	N/R	0.0000	0.02	0.0000
2-Methylpentane	0.0037	N/R	0.0020	0.18	0.0001
3-Methylpentane	0.0014	N/R	0.0010	0.07	0.0000
C6	0.0030	0.0202	0.0010	0.14	0.0001
Methylcyclopentane	0.0003	N/R	0.0000	0.01	0.0000
Benzene	0.0007	N/R	0.0000	0.03	0.0000
Cyclohexane	0.0003	N/R	0.0000	0.01	0.0000
2-Methylhexane	0.0004	N/R	0.0000	0.02	0.0000
3-Methylhexane	0.0001	N/R	0.0000	0.01	0.0000
2-2-4-Trimethylpentane	0.0002	N/R	0.0000	0.01	0.0000
i-heptanes	0.0003	N/R	0.0000	0.02	0.0000
Heptane	0.0010	N/R	0.0000	0.06	0.0000

Methylcyclohexane	0.0035	N/R	0.0010	0.18	0.0001
Toluene	0.0010	N/R	0.0000	0.04	0.0000
2-Methylheptane	0.0005	N/R	0.0000	0.03	0.0000
4-Methylheptane	0.0002	N/R	0.0000	0.01	0.0000
i-Octanes	0.0002	N/R	0.0000	0.01	0.0000
Octane	0.0006	N/R	0.0000	0.04	0.0000
Ethylbenzene	0.0000	N/R	0.0000	0.00	0.0000
m, p Xylene	0.0004	N/R	0.0000	0.02	0.0000
o Xylene (& 2,2,4 tmc7)	0.0001	N/R	0.0000	0.01	0.0000
i-C9	0.0002	N/R	0.0000	0.01	0.0000
C9	0.0002	N/R	0.0000	0.01	0.0000
i-C10	0.0001	N/R	0.0000	0.01	0.0000
C10	0.0001	N/R	0.0000	0.01	0.0000
i-C11	0.0001	N/R	0.0000	0.01	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	100.012	17.163	857.82	0.7236

* @ 14.730 PSIA DRY & UNCORRECTED FOR COMPRESSIBILITY

**@ 14.730 PSIA & 60 DEG. F.

COMPRESSIBILITY FACTOR (1/Z): 1.0026
 BTU/CU.FT IDEAL: 859.8
 BTU/CU.FT (DRY) CORRECTED FOR (1/Z): 862.0
 BTU/CU.FT (WET) CORRECTED FOR (1/Z): 847.0
 DRY BTU @ 15.025: 879.3
 REAL SPECIFIC GRAVITY: 0.7252

CYLINDER #: 15
 CYLINDER PRESSURE: 918 PSIG
 ANALYSIS DATE: 10/08/2021
 ANALYSIS TIME: 04:20:41 AM
 ANALYSIS RUN BY: PATRICIA KING

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: 10/13/2021

GC Method: C12+BTEX Gas



HARVEST MIDSTREAM
WELL ANALYSIS COMPARISON

Lease: 32-8 #2 CDP

Dehy Inlet

10/13/2021

Stn. No.:

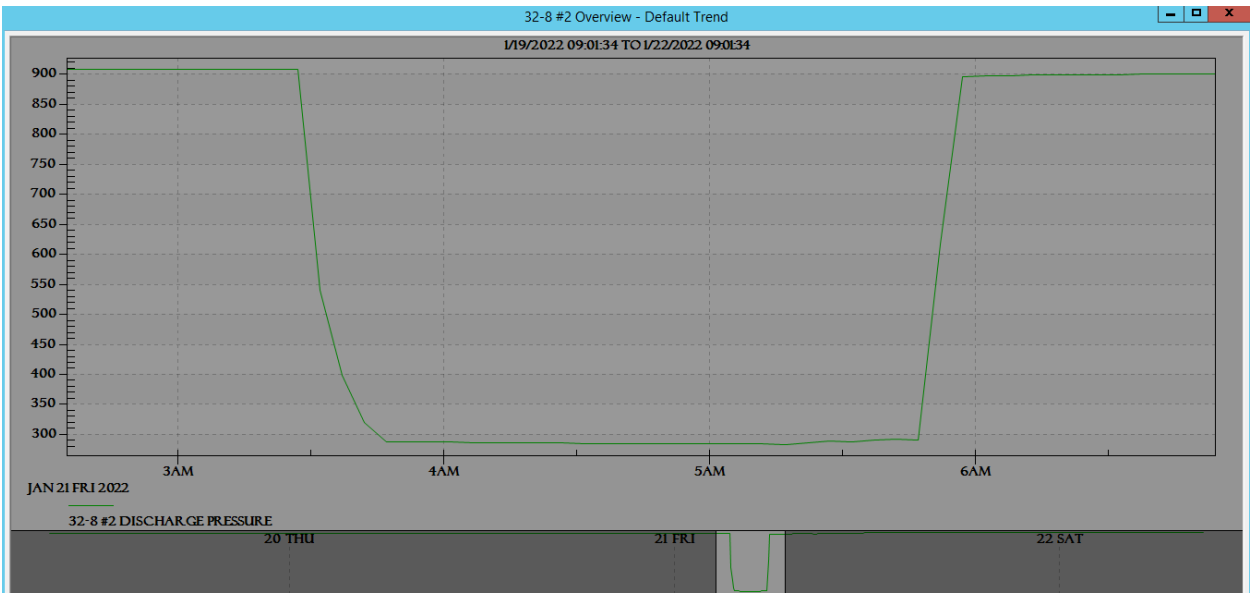
33700-10355

Mtr. No.:

Smpl Date:	10/06/2021	05/04/2021	06/01/2020	09/26/2019
Test Date:	10/08/2021	05/06/2021	06/03/2020	10/02/2019
Run No:	HM2021087	HM2021044	HM200049	HM190066
Nitrogen:	0.0479	0.0229	0.0245	0.0516
CO2:	16.5388	11.7445	11.0975	7.2189
Methane:	81.8973	87.5702	88.1698	91.3554
Ethane:	1.1430	0.5705	0.6037	1.0057
Propane:	0.2865	0.0764	0.0823	0.2371
I-Butane:	0.0309	0.0051	0.0068	0.0369
N-Butane:	0.0286	0.0104	0.0129	0.0460
2,2 dmc3:	0.0000	0.0000	0.0000	0.0000
I-Pentane:	0.0043	0.0000	0.0010	0.0166
N-Pentane:	0.0026	0.0000	0.0015	0.0133
Neohexane:	0.0002	0.0000	0.0000	0.0003
2-3-	0.0006	0.0000	0.0000	0.0003
Cyclopentane:	0.0006	0.0000	0.0000	0.0004
2-Methylpentane:	0.0037	0.0000	0.0000	0.0023
3-Methylpentane:	0.0014	0.0000	0.0000	0.0008
C6:	0.0030	0.0000	0.0000	0.0023
Methylcyclopentane:	0.0003	0.0000	0.0000	0.0017
Benzene:	0.0007	0.0000	0.0000	0.0003
Cyclohexane:	0.0003	0.0000	0.0000	0.0011
2-Methylhexane:	0.0004	0.0000	0.0000	0.0003
3-Methylhexane:	0.0001	0.0000	0.0000	0.0000
2-2-4-	0.0002	0.0000	0.0000	0.0002
i-heptanes:	0.0003	0.0000	0.0000	0.0002
Heptane:	0.0010	0.0000	0.0000	0.0012
Methylcyclohexane:	0.0035	0.0000	0.0000	0.0025
Toluene:	0.0010	0.0000	0.0000	0.0011
2-Methylheptane:	0.0005	0.0000	0.0000	0.0006
4-Methylheptane:	0.0002	0.0000	0.0000	0.0002
i-Octanes:	0.0002	0.0000	0.0000	0.0004
Octane:	0.0006	0.0000	0.0000	0.0007
Ethylbenzene:	0.0000	0.0000	0.0000	0.0001
m, p Xylene:	0.0004	0.0000	0.0000	0.0006
o Xylene (& 2,2,4	0.0001	0.0000	0.0000	0.0001
i-C9:	0.0002	0.0000	0.0000	0.0002
C9:	0.0002	0.0000	0.0000	0.0002
i-C10:	0.0001	0.0000	0.0000	0.0001
C10:	0.0001	0.0000	0.0000	0.0001
i-C11:	0.0001	0.0000	0.0000	0.0000
C11:	0.0000	0.0000	0.0000	0.0000
C12P:	0.0000	0.0000	0.0000	0.0000
BTU:	862.0	901.1	908.2	955.7
GPM:	17.1670	17.0690	17.0710	17.1410
SPG:	0.7252	0.6724	0.6665	0.6345

32-8 #2 Release 1.21.2021

Total Release 2,200 mscf



Vee-Ball™ V150, V200, and V300
Forward Flow
Composition Seals and Flat Metal Seals
NPS 1 through 8

Catalog 12
Page V150-1
February 2018

Coefficients	Valve Size, NPS	Valve Rotation, Degrees								
		10	20	30	40	50	60	70	80	90
Cv	1 ⁽²⁾	0.010 ⁽¹⁾	0.738	2.53	5.00	8.40	12.4	18.3	29.2	34.6
Kv		0.009	0.638	2.19	4.33	7.27	10.7	15.8	25.3	29.9
Fl		0.93	0.90	0.90	0.88	0.83	0.84	0.81	0.66	0.69
X _T		0.392	0.469	0.571	0.592	0.529	0.507	0.441	0.292	0.275
Cv	1-1/2 ⁽²⁾	0.014 ⁽¹⁾	2.07	6.15	11.9	19.2	27.8	38.8	59.2	76.0
Kv		0.012	1.79	5.32	10.3	16.6	24.0	33.6	51.2	65.7
Fl		0.87	0.89	0.86	0.87	0.83	0.82	0.82	0.71	0.73
X _T		0.492	0.460	0.548	0.557	0.534	0.516	0.481	0.344	0.328
Cv	2 ⁽²⁾	0.028 ⁽¹⁾	2.64	9.60	19.1	31.4	46.1	67.2	93.6	123
Kv		0.024	2.28	8.30	16.5	27.2	39.9	58.1	81.0	106
Fl		0.94	0.89	0.90	0.85	0.84	0.83	0.78	0.75	0.75
X _T		0.386	0.490	0.585	0.628	0.597	0.559	0.474	0.409	0.366

Main Data		Advanced	
Name	Value	Name	Value
Delta P [psi]	285.00	Valve Type	Ball Full ▼
Cv	123.00	Choke Calculation	Use Critical P Ratio ▼
Characteristic	Linear ▼	Calc. Liquid Choke	<input type="checkbox"/>
% Opening [%]	100.00	Do Blowdown Sizing	<input type="checkbox"/>
Valve Cv At Opening	123.00		

Material		
PortName	In	Out
Is Recycle Port	<input type="checkbox"/>	<input type="checkbox"/>
Connected Stream/Unit Op	/S2.Out ▼	/S3.In ▼
VapFrac	1.00	1.00
T [F]	115.0	98.8
P [psia]	297.00	12.00
Mole Flow [lbmol/h]	2929.77	2929.77
Mass Flow [lb/h]	61351.15	61351.15
Volume Flow [ft3/s]	16.163	405.645
Std Liq Volume Flow [ft3/s]	0.705	0.705
Std Gas Volume Flow [MMSCFD]	2.6683E+1	2.6683E+1
► Properties (Alt+R)		
▲ Mole Fraction [Fraction]		
NITROGEN	0.0005	0.0005
CARBON DIOXIDE	0.16546	0.16546
METHANE	0.81921	0.81921
ETHANE	0.0114	0.0114
PROPANE	0.00286	0.00286
ISOBUTANE	0.0003	0.0003
n-BUTANE	0.0002	0.0002
ISOPENTANE	0.00004	0.00004
n-PENTANE	0.00002	0.00002
n-HEXANE	0.00	0.00
► Mass Fraction [Fraction]		

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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 74665

DEFINITIONS

Operator: Harvest Four Corners, LLC 1111 Travis Street Houston, TX 77002	OGRID: 373888
	Action Number: 74665
	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 74665

QUESTIONS

Operator: Harvest Four Corners, LLC 1111 Travis Street Houston, TX 77002	OGRID: 373888
	Action Number: 74665
	Action Type: [C-129] Amend Venting and/or Flaring (C-129A)

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 Operator	[373888] Harvest Four Corners, LLC
Incident Type	Flare
Incident Status	Closure Not Approved
Incident Well	Not answered.
Incident Facility	[fCS1716528913] 32-8 #2 COMPRESSOR STATION

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

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	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 within 300 feet from an occupied permanent residence, school, hospital, institution or church in existence	No

Equipment Involved

Primary Equipment Involved	Valve
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	82
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	17
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 74665

QUESTIONS (continued)

Operator: Harvest Four Corners, LLC 1111 Travis Street Houston, TX 77002	OGRID: 373888
	Action Number: 74665
	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	01/21/2022
Time vent or flare was discovered or commenced	03:45 AM
Time vent or flare was terminated	05:45 AM
Cumulative hours during this event	2

Measured or Estimated Volume of Vented or Flared Natural Gas	
Natural Gas Vented (Mcf) Details	Cause: Equipment Failure Valve Natural Gas Vented Released: 2,200 Mcf Recovered: 0 Mcf Lost: 2,200 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	The facility had a pneumatic valve fail at approximately 3:45AM. The valve had given no indication of potential failure prior to this event. Harvest could not have reasonably anticipated this equipment failure prior to the event and could not have addressed the event any sooner.
Steps taken to limit the duration and magnitude of vent or flare	Harvest personnel were immediately dispatched to facility upon remote detection of problem at facility. Employee investigated at facility to determine cause of call out. Once found, the source of the release was immediately isolated to prevent any further discharge of natural gas.
Corrective actions taken to eliminate the cause and reoccurrence of vent or flare	Harvest is investigating the root cause of this valve failure. Harvest is improving its maintenance practices and is working to replace valves prior to any failures which result in emissions to atmosphere.

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ACKNOWLEDGMENTS

Action 74665

ACKNOWLEDGMENTS

Operator: Harvest Four Corners, LLC 1111 Travis Street Houston, TX 77002	OGRID: 373888
	Action Number: 74665
	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 74665

CONDITIONS

Operator: Harvest Four Corners, LLC 1111 Travis Street Houston, TX 77002	OGRID: 373888
	Action Number: 74665
	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.	1/24/2022