



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

Analysis No: HM20220048
Cust No: 33700-10245

Well/Lease Information

Customer Name:	HARVEST MIDSTREAM	Source:	METER RUN
Well Name:	NORTH CRANDELL	Well Flowing:	
County/State:	SAN JUAN NM	Pressure:	32 PSIG
Location:		Flow Temp:	67 DEG. F
Lease/PA/CA:		Ambient Temp:	DEG. F
Formation:		Flow Rate:	MCF/D
Cust. Stn. No.:		Sample Method:	
		Sample Date:	05/06/2022
		Sample Time:	12.58 PM
		Sampled By:	Rockey M.
		Sampled by (CO):	HARVEST MID
Heat Trace:			
Remarks:	Calculated Molecular Weight = 20.1058		

Analysis

Component:	Mole%:	Unnormalized %:	**GPM:	*BTU:	*SP Gravity:
Nitrogen	0.2082	0.2082	0.0230	0.00	0.0020
CO2	1.5380	1.5381	0.2630	0.00	0.0234
Methane	84.8128	84.8166	14.4210	856.61	0.4698
Ethane	7.2122	7.2125	1.9340	127.63	0.0749
Propane	3.2033	3.2034	0.8850	80.60	0.0488
Iso-Butane	0.6193	0.6193	0.2030	20.14	0.0124
N-Butane	0.9170	0.9170	0.2900	29.91	0.0184
Neopentane 2,2 dmc3	0.0000	0.0000	0.0000	0.00	0.0000
I-Pentane	0.3641	0.3641	0.1340	14.57	0.0091
N-Pentane	0.2736	0.2736	0.0990	10.97	0.0068
Neohexane	0.0145	N/R	0.0060	0.69	0.0004
2-3-Dimethylbutane	0.0161	N/R	0.0070	0.76	0.0005
Cyclopentane	0.0167	N/R	0.0050	0.63	0.0004
2-Methylpentane	0.1082	N/R	0.0450	5.14	0.0032
3-Methylpentane	0.0404	N/R	0.0170	1.92	0.0012
C6	0.1311	0.8517	0.0540	6.23	0.0039
Methylcyclopentane	0.1015	N/R	0.0360	4.57	0.0029
Benzene	0.0181	N/R	0.0050	0.68	0.0005
Cyclohexane	0.0492	N/R	0.0170	2.20	0.0014
2-Methylhexane	0.0171	N/R	0.0080	0.93	0.0006
3-Methylhexane	0.0221	N/R	0.0100	1.21	0.0008
2-2-4-Trimethylpentane	0.0063	N/R	0.0030	0.39	0.0002
i-heptanes	0.0127	N/R	0.0050	0.68	0.0004
Heptane	0.0548	N/R	0.0250	3.02	0.0019

Methylcyclohexane	0.1136	N/R	0.0460	5.93	0.0039
Toluene	0.0410	N/R	0.0140	1.83	0.0013
2-Methylheptane	0.0204	N/R	0.0110	1.26	0.0008
4-Methylheptane	0.0096	N/R	0.0050	0.59	0.0004
i-Octanes	0.0099	N/R	0.0050	0.60	0.0004
Octane	0.0233	N/R	0.0120	1.46	0.0009
Ethylbenzene	0.0012	N/R	0.0000	0.06	0.0000
m, p Xylene	0.0151	N/R	0.0060	0.78	0.0006
o Xylene (& 2,2,4 tmc7)	0.0014	N/R	0.0010	0.07	0.0001
i-C9	0.0022	N/R	0.0010	0.15	0.0001
C9	0.0037	N/R	0.0020	0.26	0.0002
i-C10	0.0008	N/R	0.0000	0.06	0.0000
C10	0.0005	N/R	0.0000	0.04	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	100.004	18.598	1182.57	0.6926

* @ 14.730 PSIA DRY & UNCORRECTED FOR COMPRESSIBILITY

**@ 14.730 PSIA & 60 DEG. F.

COMPRESSIBILITY FACTOR (1/Z):	1.0032	CYLINDER #:	107
BTU/CU.FT IDEAL:	1185.3	CYLINDER PRESSURE:	30 PSIG
BTU/CU.FT (DRY) CORRECTED FOR (1/Z):	1189.1	ANALYSIS DATE:	05/17/2022
BTU/CU.FT (WET) CORRECTED FOR (1/Z):	1168.4	ANALYSIS TIME:	12:38:03 PM
DRY BTU @ 15.025:	1212.9	ANALYSIS RUN BY:	ELAINE MORRISON
REAL SPECIFIC GRAVITY:	0.6945		

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: 05/18/2022****GC Method: C12+BTEX Gas**



HARVEST MIDSTREAM
WELL ANALYSIS COMPARISON

Lease: NORTH CRANDELL

METER RUN

05/18/2022

Stn. No.:

33700-10245

Mtr. No.:

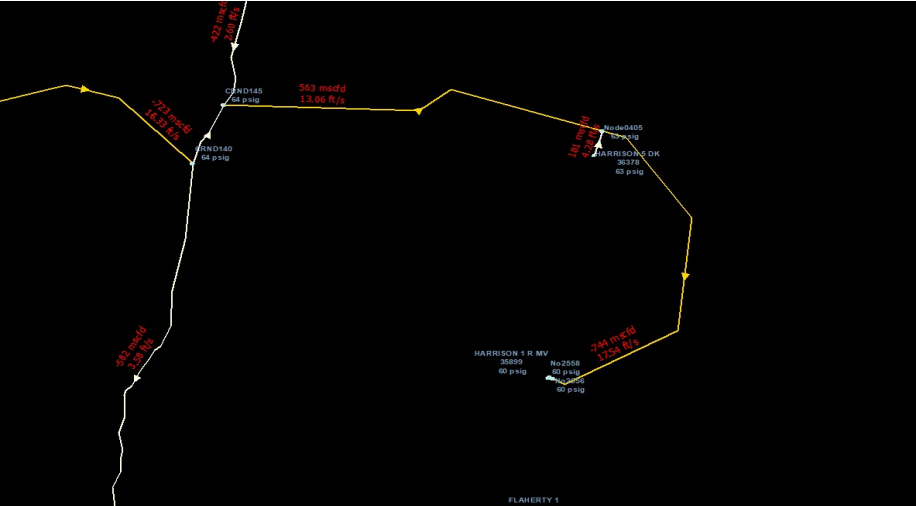
Smpl Date:	05/06/2022	05/24/2021	05/14/2020	06/06/2019	05/02/2019
Test Date:	05/17/2022	06/02/2021	05/19/2020	06/11/2019	05/07/2019
Run No:	HM20220048	HM2021055	HM200045	HM190034	HM190032
Nitrogen:	0.2082	0.1781	0.1795	0.2071	0.1519
CO2:	1.5380	2.1706	2.2863	2.3204	2.4025
Methane:	84.8128	86.2911	85.9311	86.4473	85.2335
Ethane:	7.2122	6.3720	6.5665	6.3638	6.9239
Propane:	3.2033	2.6169	2.7163	2.5851	2.8667
I-Butane:	0.6193	0.5149	0.5291	0.4983	0.5397
N-Butane:	0.9170	0.7545	0.7545	0.7103	0.8184
2,2 dmc3:	0.0000	0.0000	0.0000	0.0018	0.0036
I-Pentane:	0.3641	0.2855	0.2867	0.2727	0.2993
N-Pentane:	0.2736	0.2086	0.2081	0.1931	0.2170
Neohexane:	0.0145	0.0099	0.0082	0.0076	0.0096
2-3-	0.0161	0.0127	0.0116	0.0100	0.0115
Cyclopentane:	0.0167	0.0132	0.0121	0.0104	0.0119
2-Methylpentane:	0.1082	0.0854	0.0782	0.0670	0.0772
3-Methylpentane:	0.0404	0.0342	0.0330	0.0251	0.0325
C6:	0.1311	0.0948	0.0833	0.0709	0.0885
Methylcyclopentane:	0.1015	0.0713	0.0607	0.0498	0.0658
Benzene:	0.0181	0.0141	0.0113	0.0086	0.0134
Cyclohexane:	0.0492	0.0374	0.0342	0.0235	0.0345
2-Methylhexane:	0.0171	0.0141	0.0140	0.0085	0.0136
3-Methylhexane:	0.0000	0.0000	0.0000	0.0000	0.0000
2-2-4-	0.0063	0.0043	0.0036	0.0021	0.0037
i-heptanes:	0.0127	0.0092	0.0091	0.0057	0.0090
Heptane:	0.0548	0.0384	0.0345	0.0220	0.0334
Methylcyclohexane:	0.1136	0.0762	0.0673	0.0412	0.0655
Toluene:	0.0410	0.0255	0.0205	0.0119	0.0202
2-Methylheptane:	0.0204	0.0131	0.0119	0.0058	0.0107
4-Methylheptane:	0.0096	0.0064	0.0057	0.0028	0.0053
i-Octanes:	0.0099	0.0064	0.0052	0.0030	0.0051
Octane:	0.0233	0.0145	0.0127	0.0058	0.0102
Ethylbenzene:	0.0012	0.0006	0.0004	0.0002	0.0003
m, p Xylene:	0.0151	0.0065	0.0062	0.0035	0.0040
o Xylene (& 2,2,4	0.0014	0.0006	0.0003	0.0003	0.0003
i-C9:	0.0022	0.0012	0.0012	0.0017	0.0009
C9:	0.0037	0.0018	0.0025	0.0016	0.0012
i-C10:	0.0008	0.0007	0.0001	0.0007	0.0004
C10:	0.0005	0.0003	0.0002	0.0015	0.0005
i-C11:	0.0000	0.0000	0.0000	0.0000	0.0000
C11:	0.0001	0.0000	0.0001	0.0001	0.0000
C12P:	0.0001	0.0000	0.0000	0.0000	0.0000
BTU:	1189.1	1147.3	1146.9	1134.3	1153.3
GPM:	18.6330	18.3530	18.3660	18.2720	18.4340
SPG:	0.6945	0.6774	0.6789	0.6716	0.6847

Location of Sample: <i>NORTH CRANDON EXTENDED</i>		Meter Code & CK Digit:
Continuous Sampler Beginning Date:	Ending Date or Date Pulled: <i>5-6-22</i>	
Run Number:	Operator Code:	Line PSIG: <i>32</i>
Cylinder Number: <i>107</i>	Type Sample: <input checked="" type="checkbox"/> Spot <input type="checkbox"/> Continuous	Flow Temp.: <i>67°</i>
Remarks:		
Sample Taken By: <i>Rockey McPherson</i>		Phone Number: <i>505-469-6356</i>

*33700-10245**Hm 20220048*

Line Leak Calc	
Total Hours Blown	35.55 hours
Volume Loss Rate	744.00 Mcfd
Lost Gas From Line Leak	1,102.05 Mcf

Note: The volume loss rate was determined by using Synergi to model the release flow rate and corresponding pressure drops in the system. The volume of gas released was assumed to originate from the gathering system - see screen shot below. By trending the closest well, Harrison 5, trended data was used to determine the start time of the release and the drop in pressure.



Monica Smith

From: OCDOnline@state.nm.us
Sent: Friday, March 3, 2023 9:50 AM
To: Monica Smith
Subject: [EXTERNAL] The Oil Conservation Division (OCD) has accepted the application, Application ID: 192887

CAUTION: External sender. DO NOT open links or attachments from UNKNOWN senders.

To whom it may concern (c/o Monica Smith for Harvest Four Corners, LLC),

The OCD has accepted the submitted *Notification of a Major Venting and/or Flaring Incident* (NOMVF), for incident ID (n#) nAPP2306235357, with the following conditions:

- The information provided in this report REQUIRES at least one amendment to complete the reporting on this event.
- Submit a [C-129] Amend Venting and/or Flaring Incident (C-129A) within 15 days of the discovered/commenced date, utilizing your incident number from this event.

Please reference nAPP2306235357, on all subsequent C-129 submissions and communications regarding any amendments for this report.

If you have any questions regarding this application, or don't know why you have received this email, please contact us.

ocd.enviro@state.nm.us

New Mexico Energy, Minerals and Natural Resources Department
1220 South St. Francis Drive
Santa Fe, NM 87505

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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 192955

DEFINITIONS

Operator: Harvest Four Corners, LLC 1755 Arroyo Dr Bloomfield, NM 87413	OGRID: 373888
	Action Number: 192955
	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 192955

QUESTIONS

Operator: Harvest Four Corners, LLC 1755 Arroyo Dr Bloomfield, NM 87413	OGRID: 373888
	Action Number: 192955
	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	Unavailable.
Incident Facility	[fAPP2123053718] HARVEST FOUR CORNERS - KUTZ 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
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, 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	Other (Specify)
Additional details for Equipment Involved. Please specify	meter tube freeze causing pipe to split.

Representative Compositional Analysis of Vented or Flared Natural Gas
Please provide the mole percent for the percentage questions in this group.

Methane (CH4) percentage	85
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.

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QUESTIONS, Page 2

Action 192955

QUESTIONS (continued)

Operator: Harvest Four Corners, LLC 1755 Arroyo Dr Bloomfield, NM 87413	OGRID: 373888
	Action Number: 192955
	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	03/03/2023
Time vent or flare was discovered or commenced	07:48 AM
Time vent or flare was terminated	02:46 PM
Cumulative hours during this event	36

Measured or Estimated Volume of Vented or Flared Natural Gas	
Natural Gas Vented (Mcf) Details	Cause: Freeze Pipeline (Any) Natural Gas Vented Released: 1,102 Mcf Recovered: 0 Mcf Lost: 1,102 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	Meter tube split due to freeze in pipe.
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	
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	meter tube split due to freeze. unable to predict when and where freezes will occur.
Steps taken to limit the duration and magnitude of vent or flare	upon discovery line was blocked in and isolated.
Corrective actions taken to eliminate the cause and reoccurrence of vent or flare	Unable to predict when and where freezes will occur, every effort is made to prevent freezes from occurring.

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ACKNOWLEDGMENTS

Action 192955

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Operator: Harvest Four Corners, LLC 1755 Arroyo Dr Bloomfield, NM 87413	OGRID: 373888
	Action Number: 192955
	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 192955

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Operator: Harvest Four Corners, LLC 1755 Arroyo Dr Bloomfield, NM 87413	OGRID: 373888
	Action Number: 192955
	Action Type: [C-129] Amend Venting and/or Flaring (C-129A)

CONDITIONS

Created By	Condition	Condition Date
mosmith	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.	3/3/2023